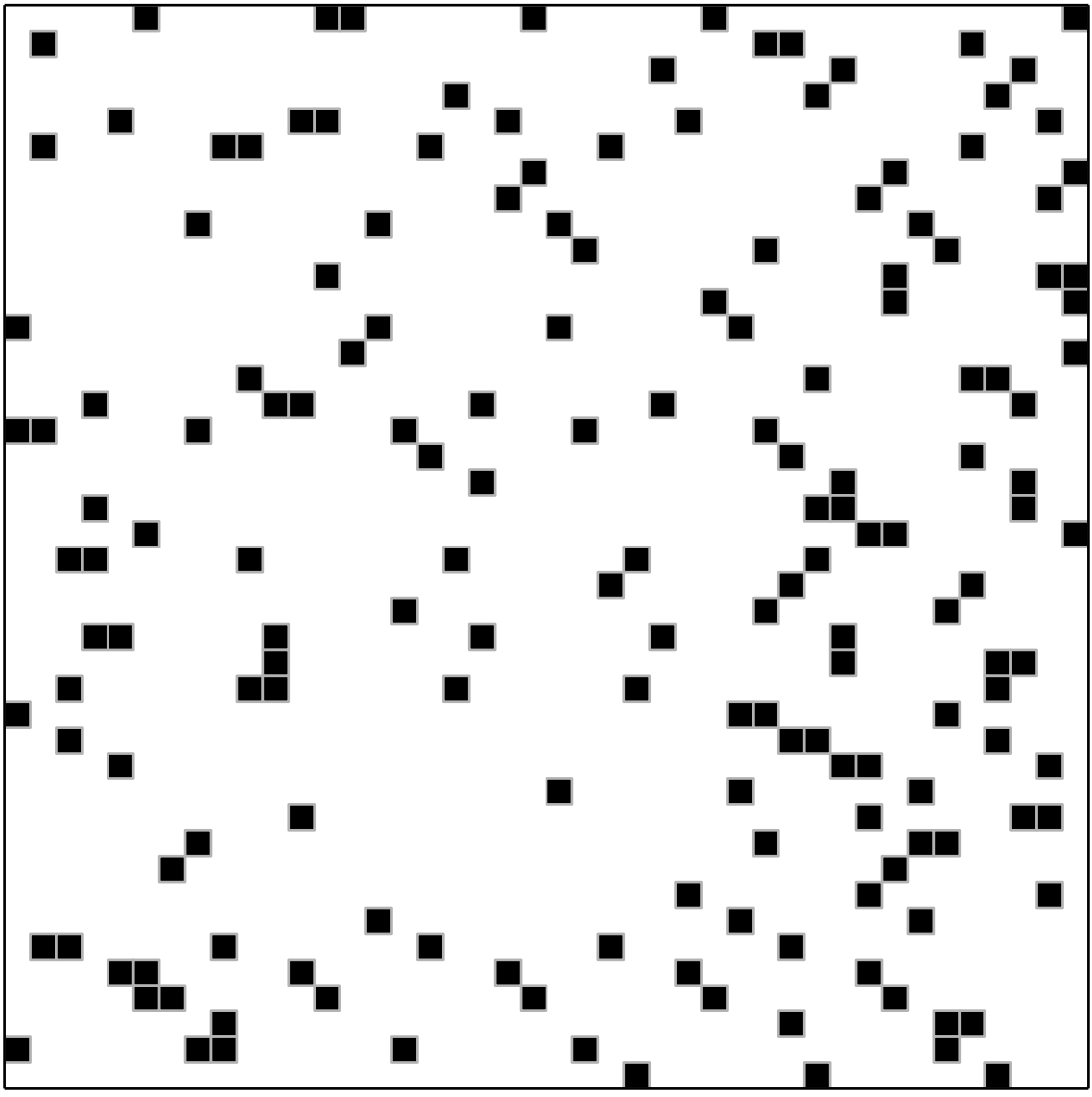
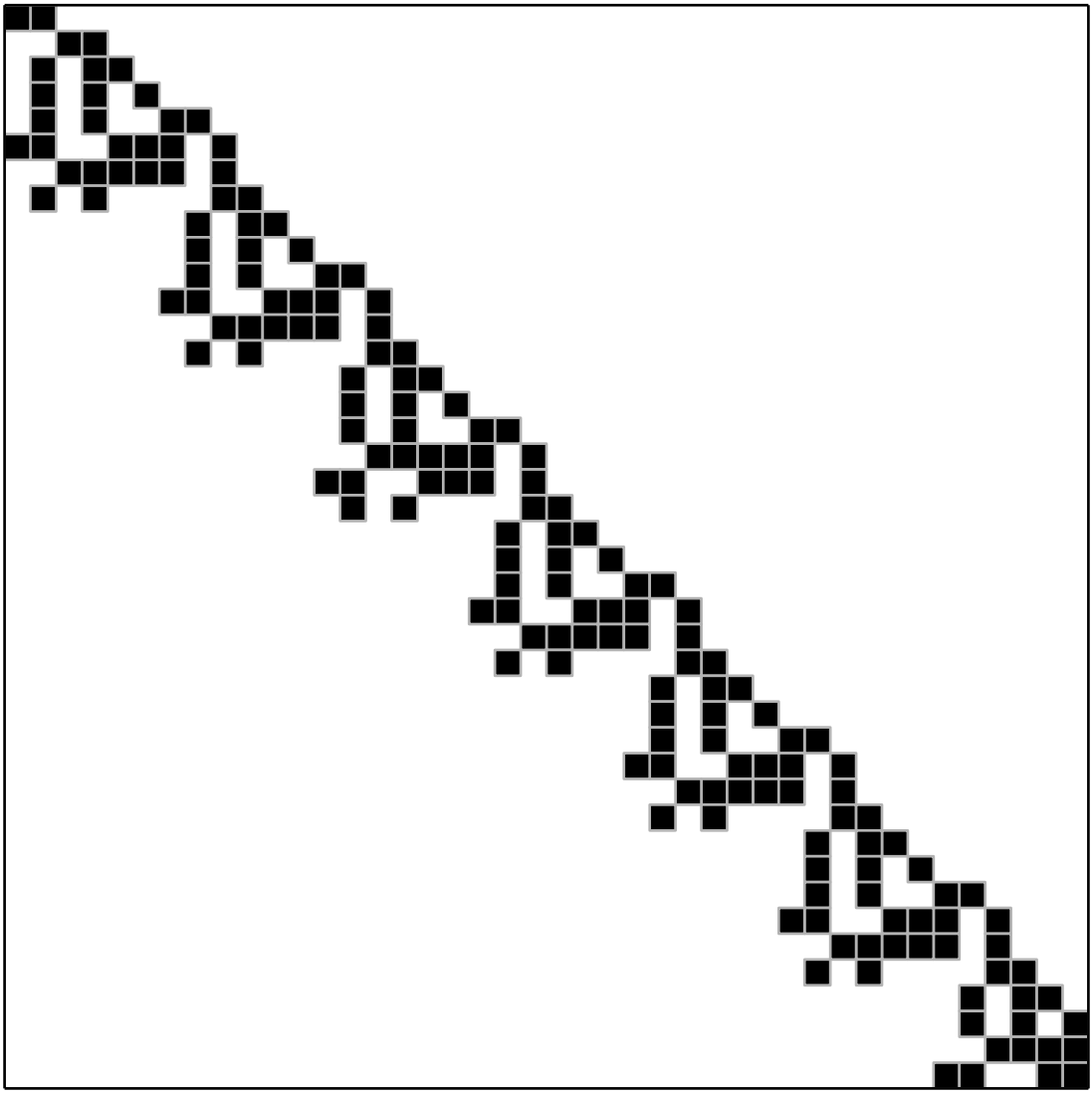
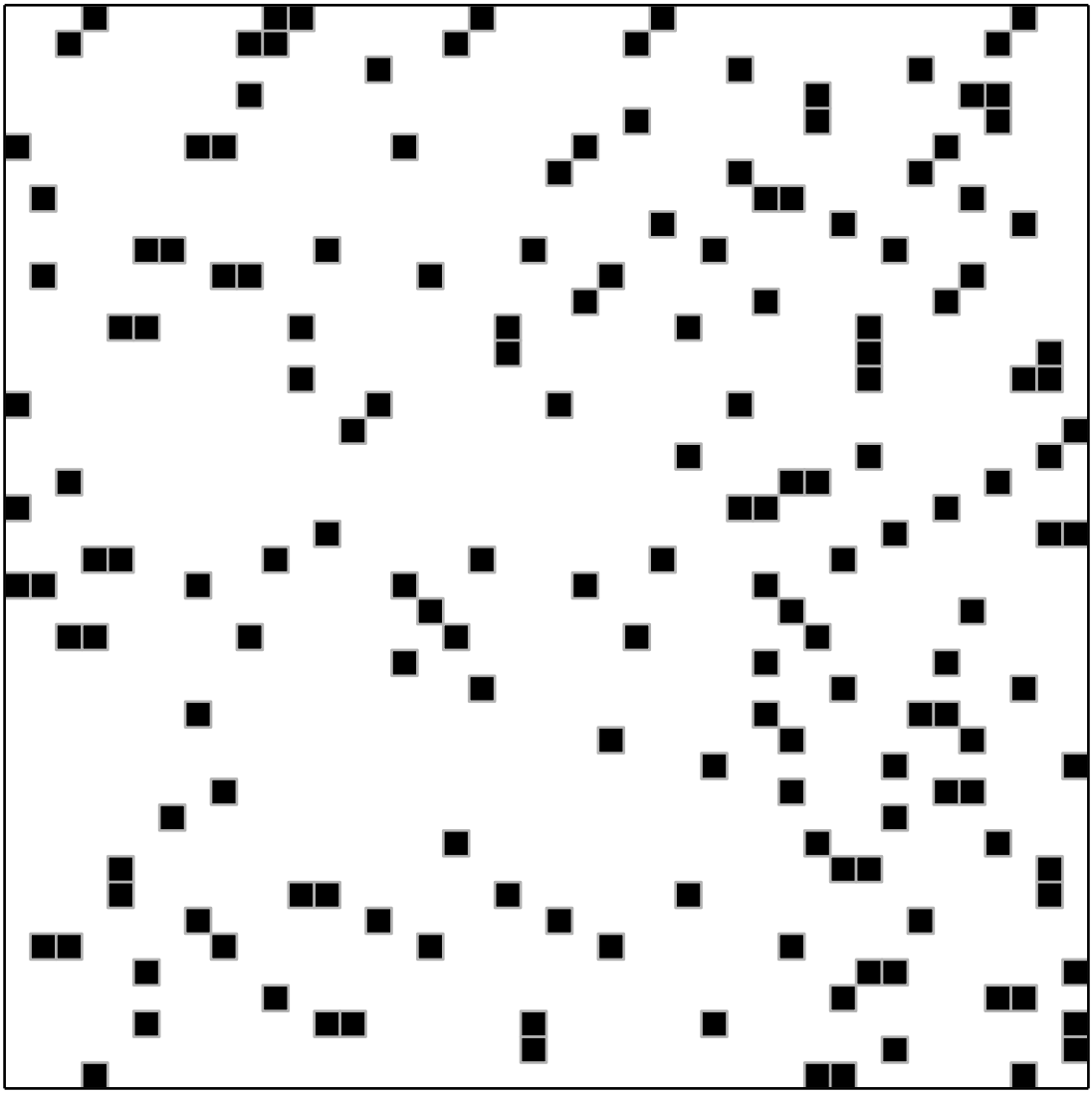
lib1_abel-00 42x42 (174) con: 14, var: 28

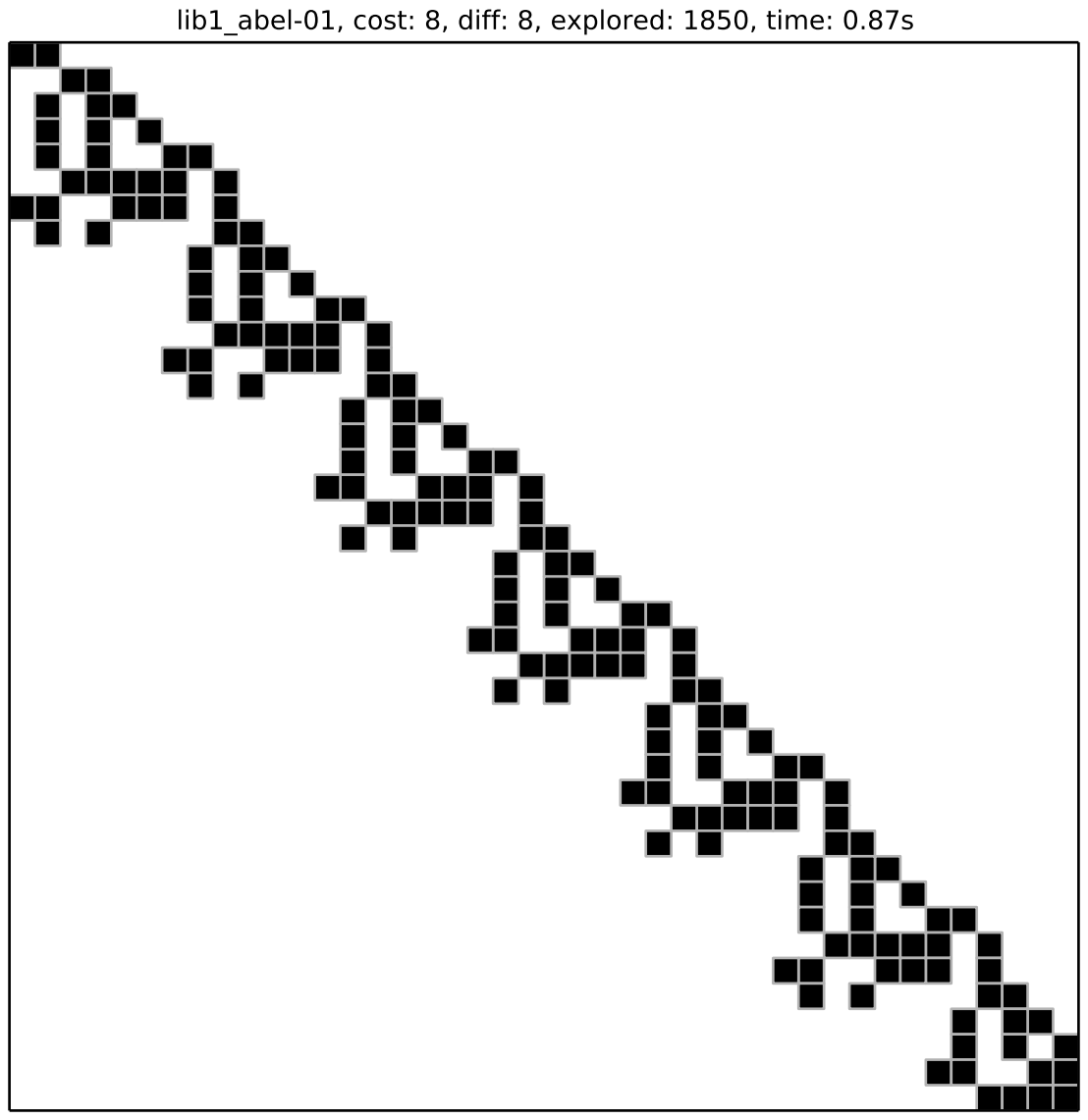


lib1_abel-00, cost: 8, diff: 8, explored: 2249, time: 1.11s

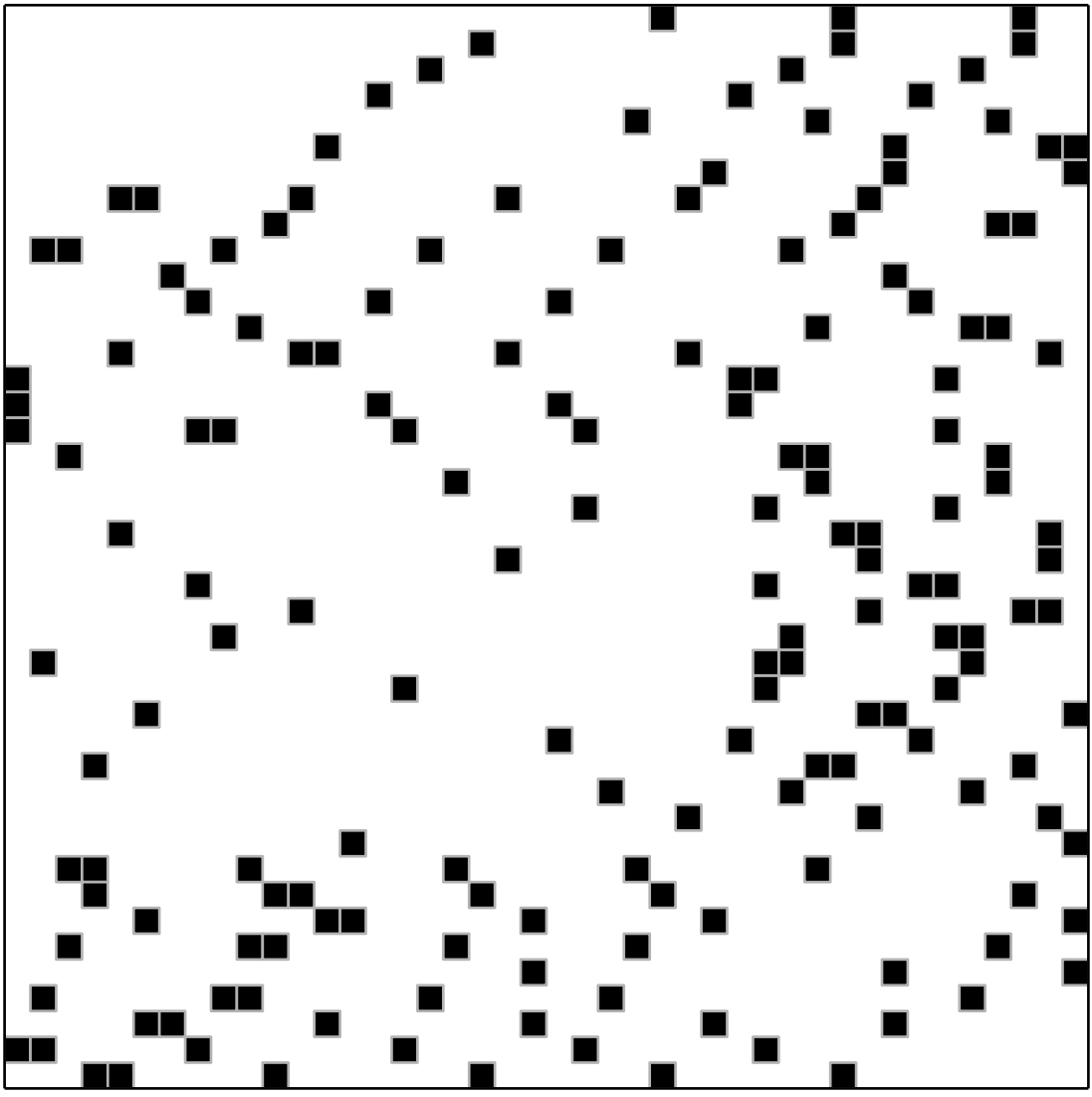


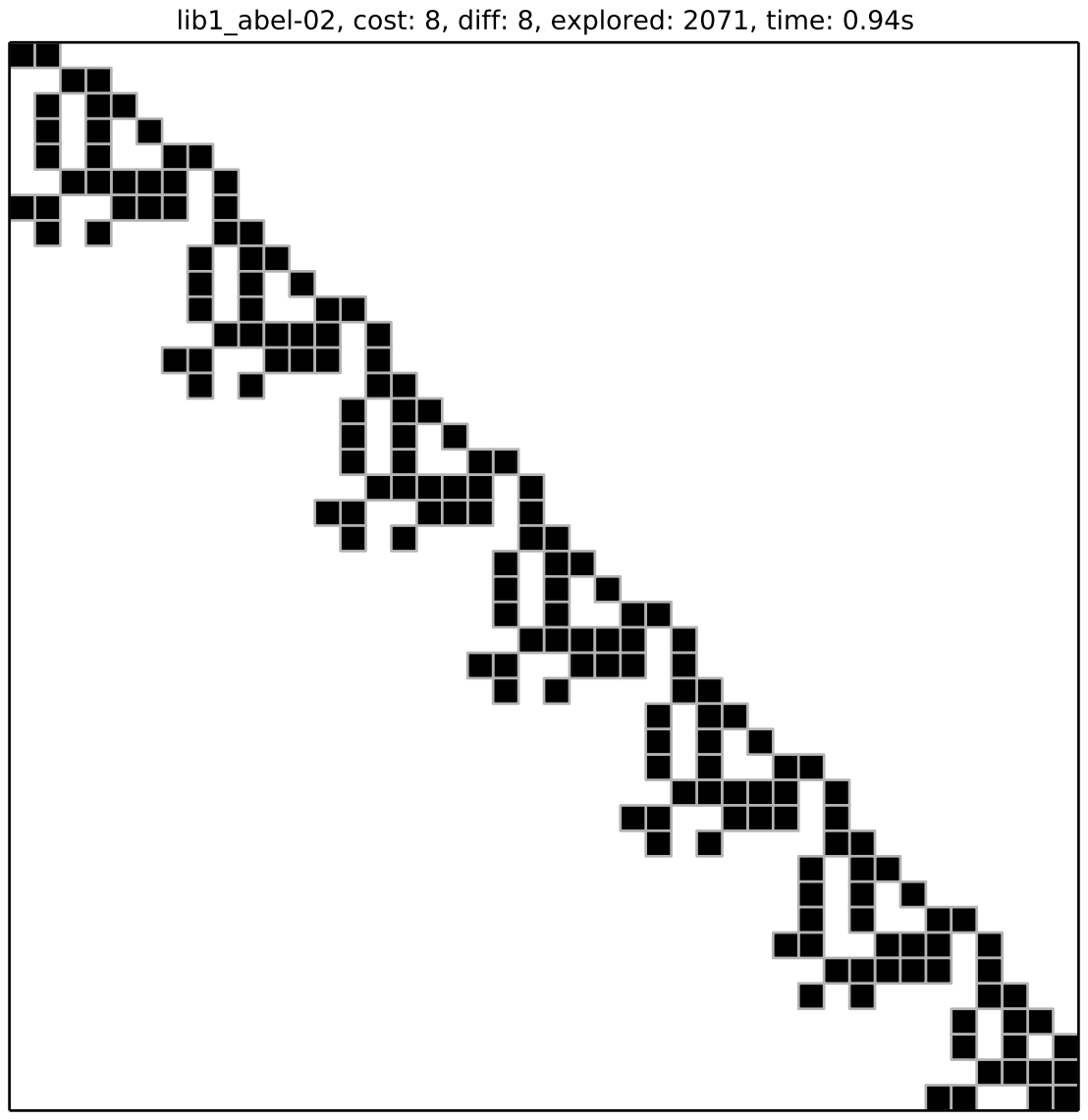
lib1_abel-01 42x42 (174) con: 14, var: 28



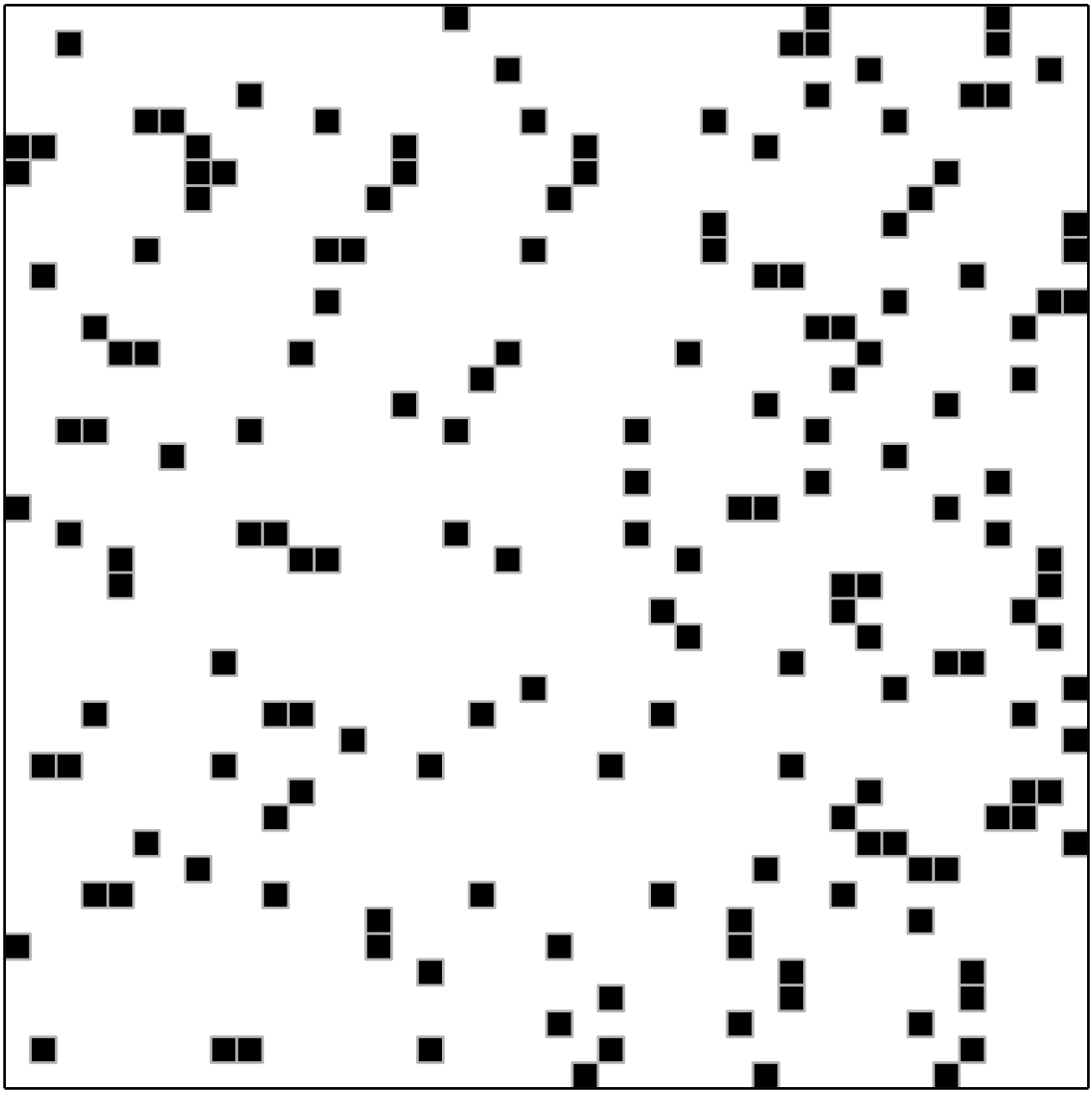

lib1_abel-01, cost: 8, diff: 8, explored: 1850, time: 0.87s

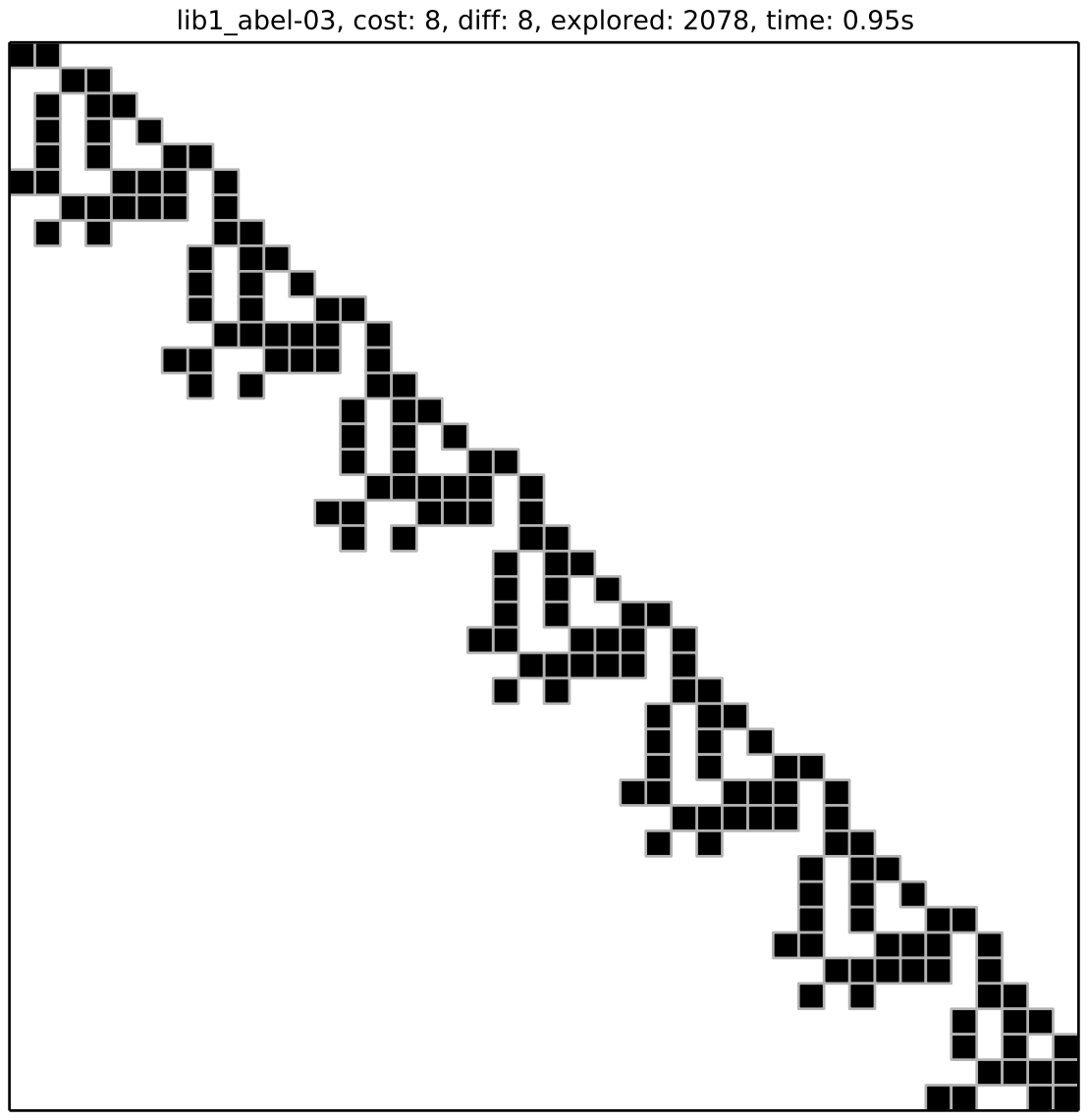
lib1_abel-02 42x42 (174) con: 14, var: 28



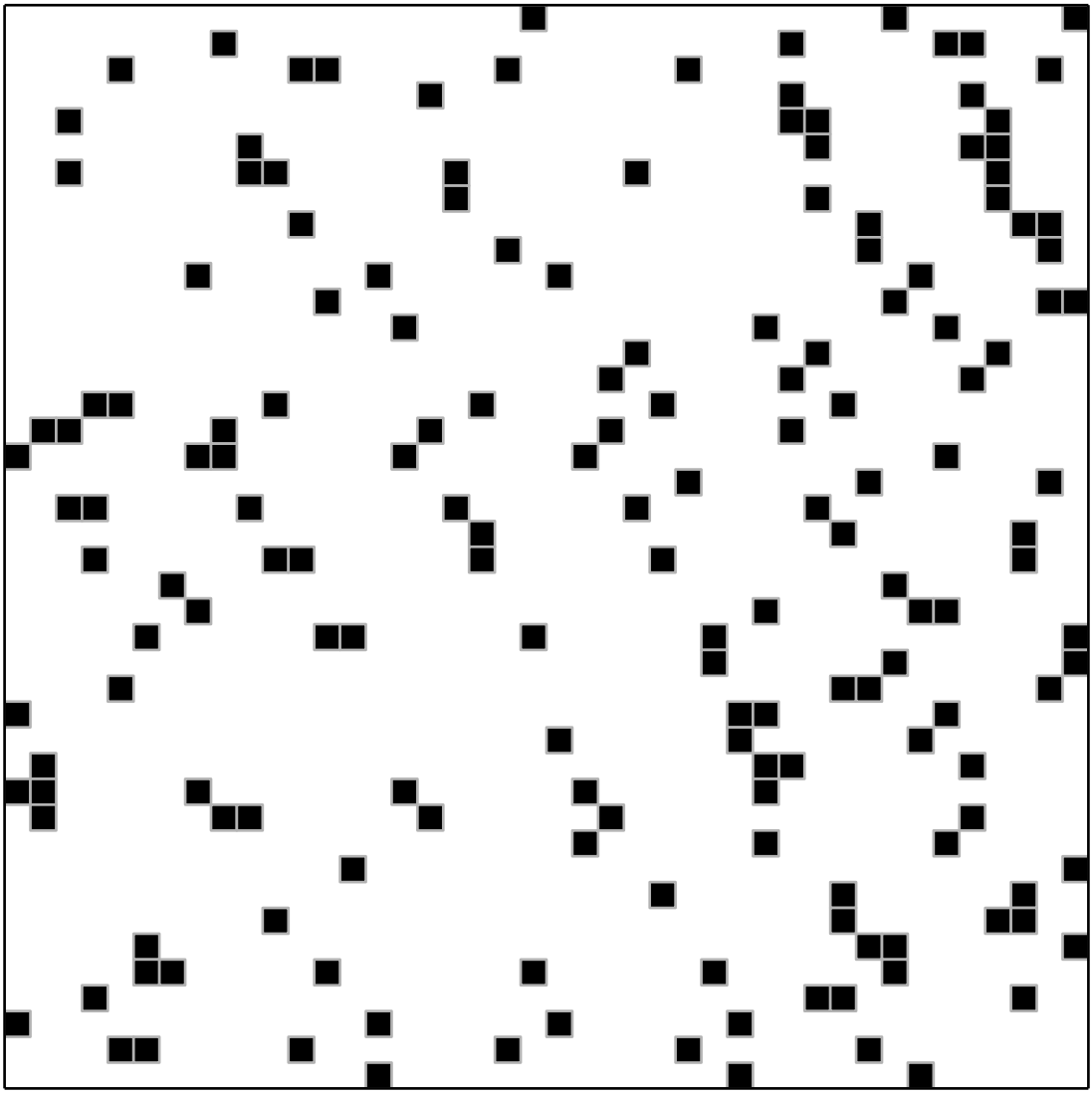

lib1_abel-02, cost: 8, diff: 8, explored: 2071, time: 0.94s

lib1_abel-03 42x42 (174) con: 14, var: 28

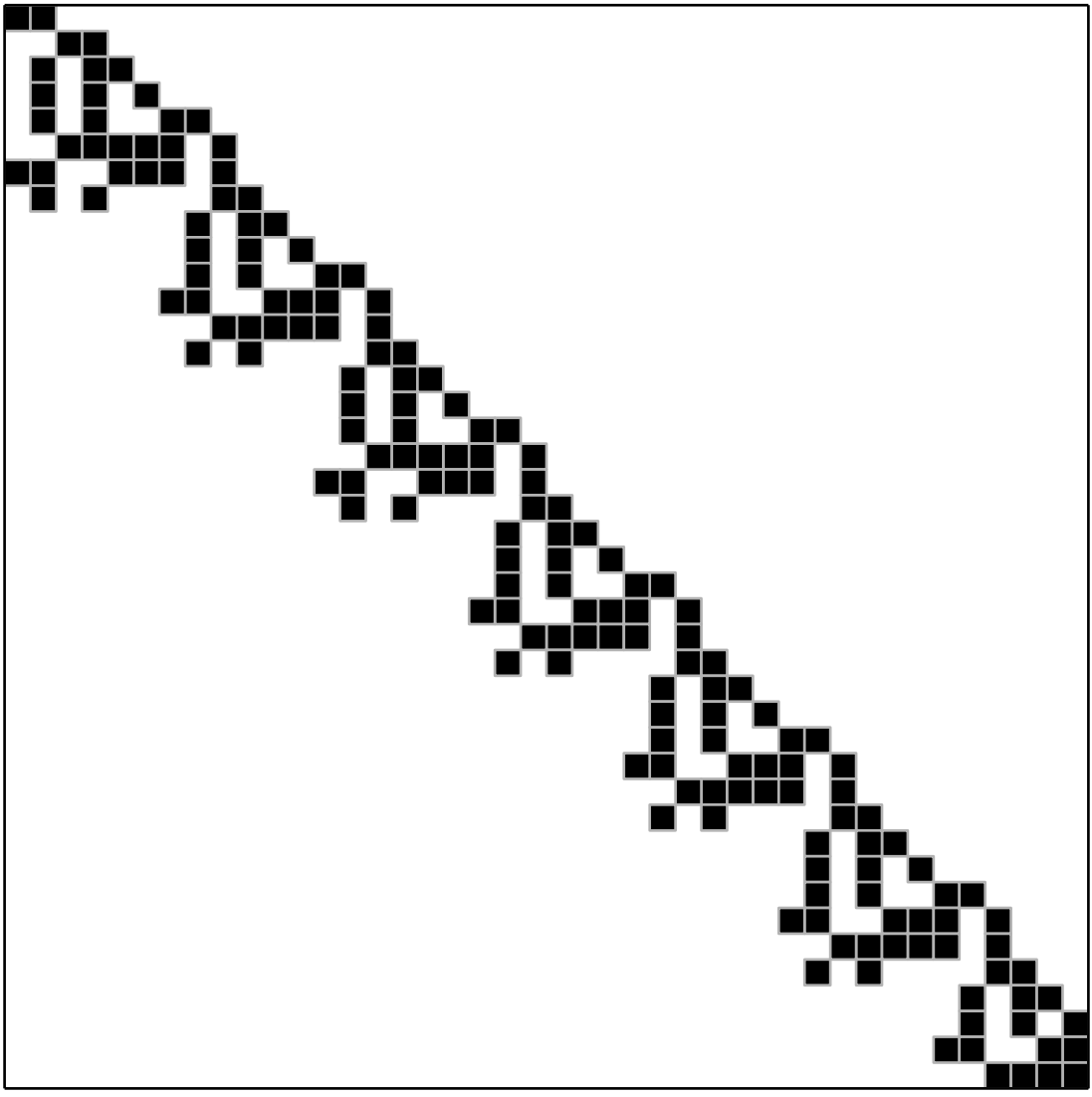



lib1_abel-03, cost: 8, diff: 8, explored: 2078, time: 0.95s

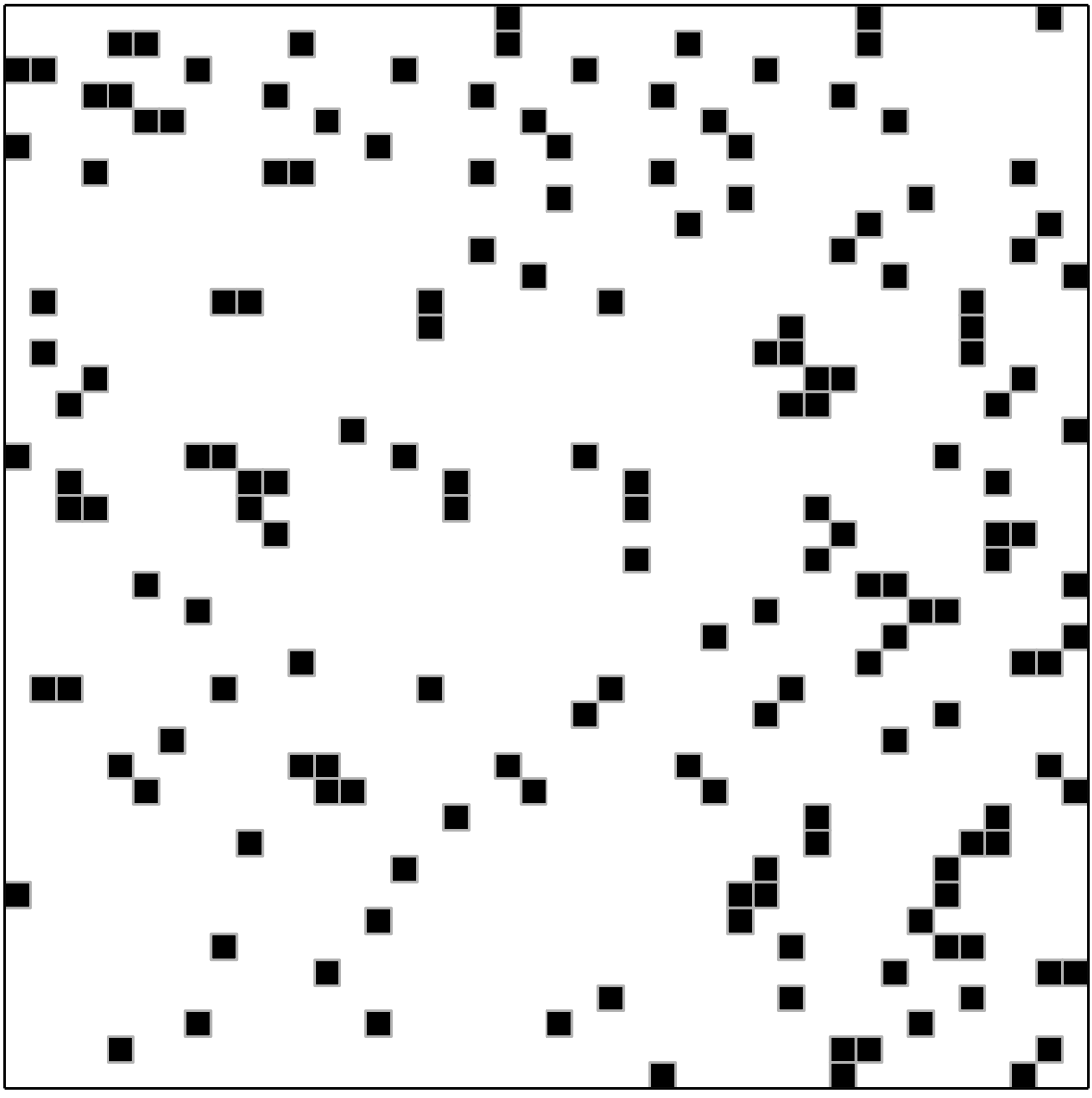
lib1_abel-04 42x42 (174) con: 14, var: 28

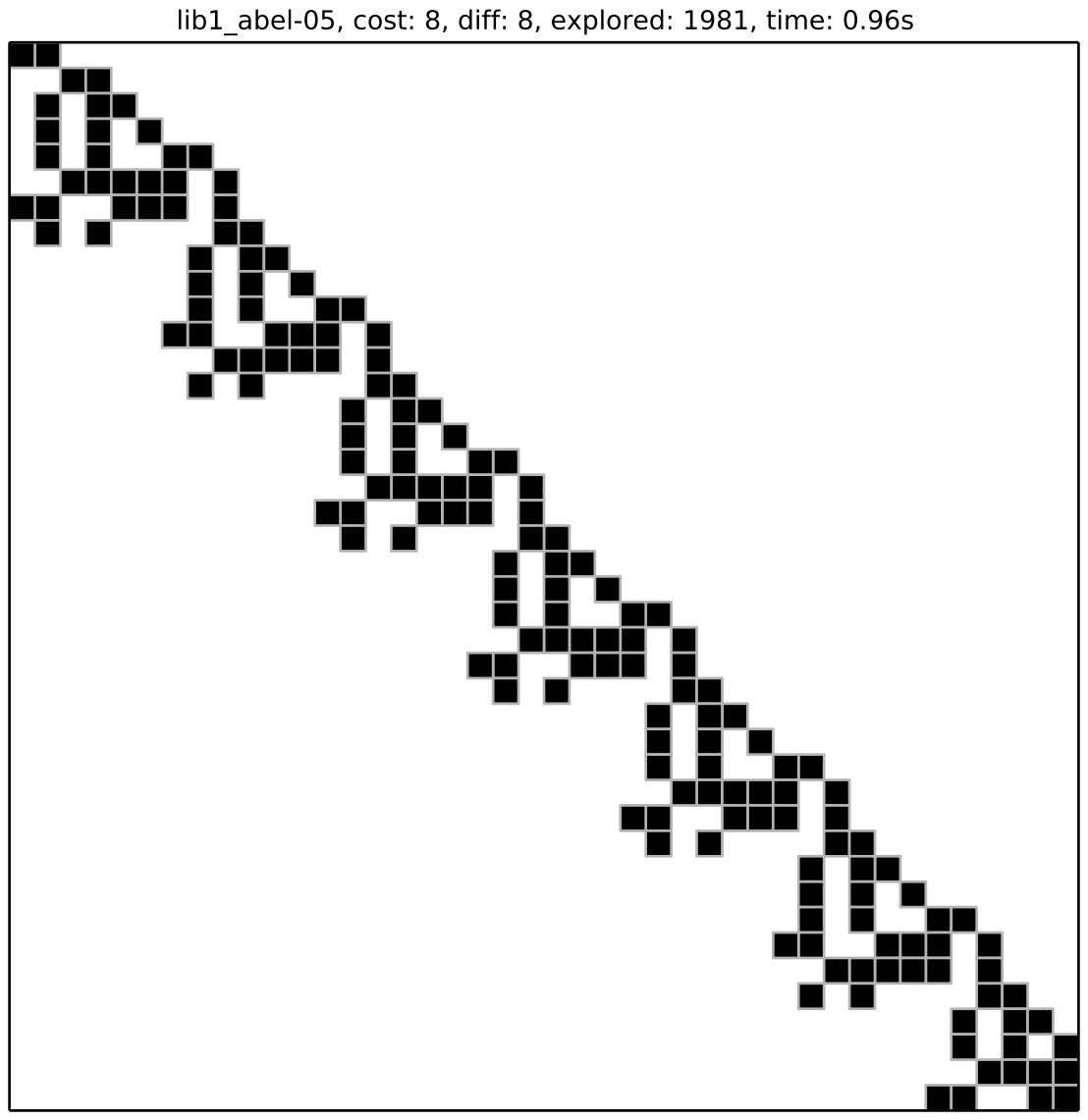


lib1_abel-04, cost: 8, diff: 8, explored: 2040, time: 0.95s

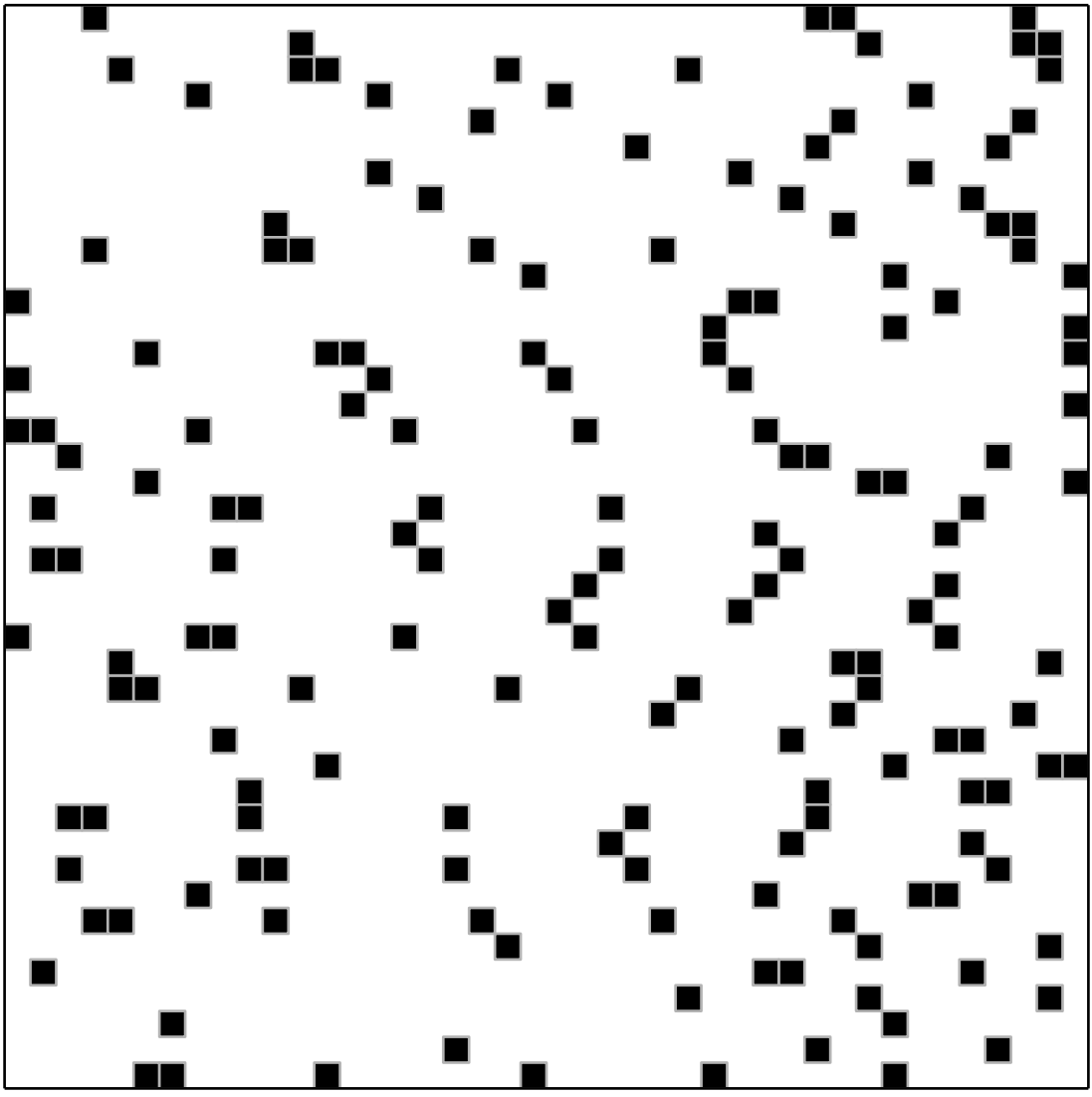


lib1_abel-05 42x42 (174) con: 14, var: 28

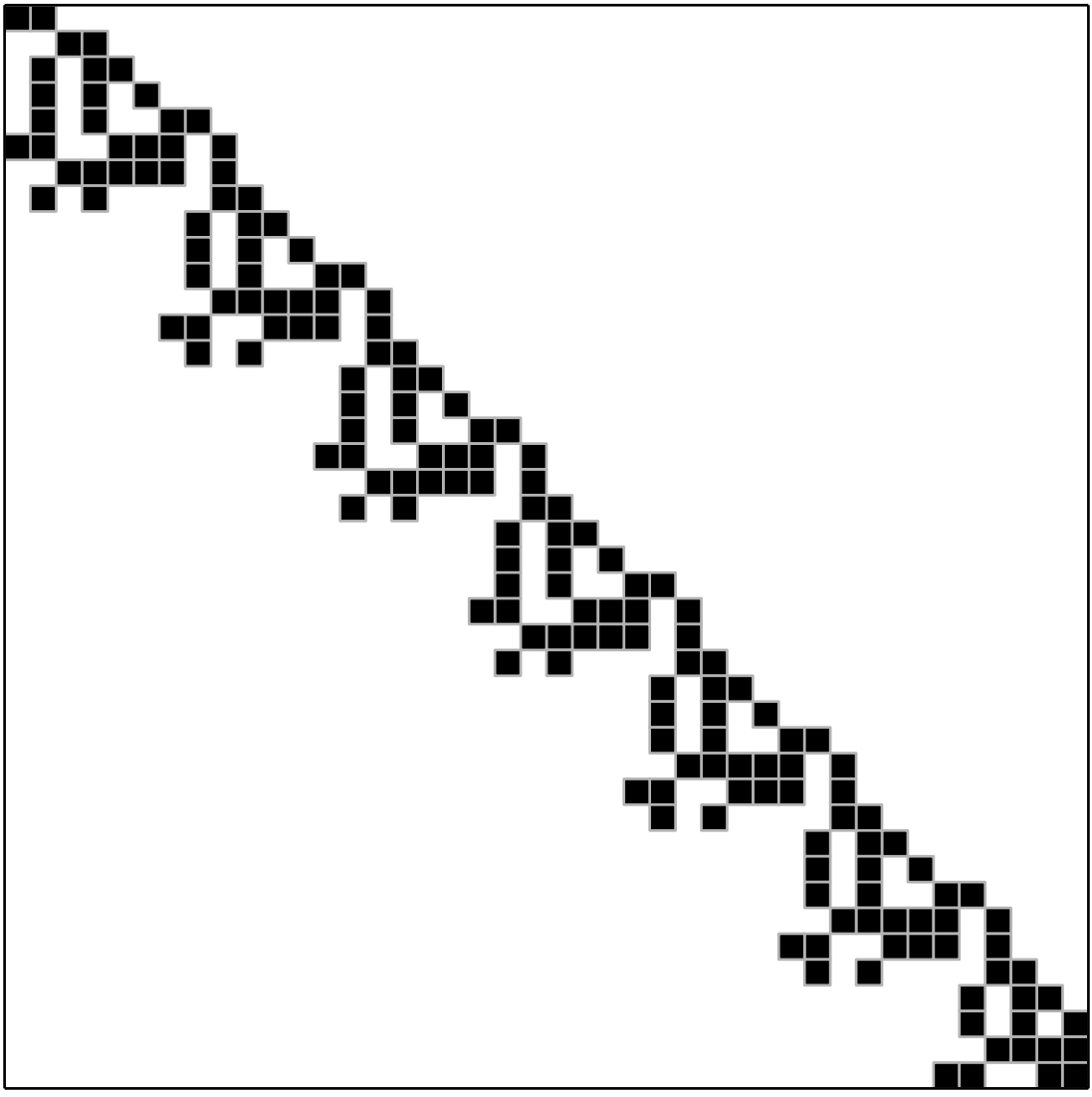



lib1_abel-05, cost: 8, diff: 8, explored: 1981, time: 0.96s

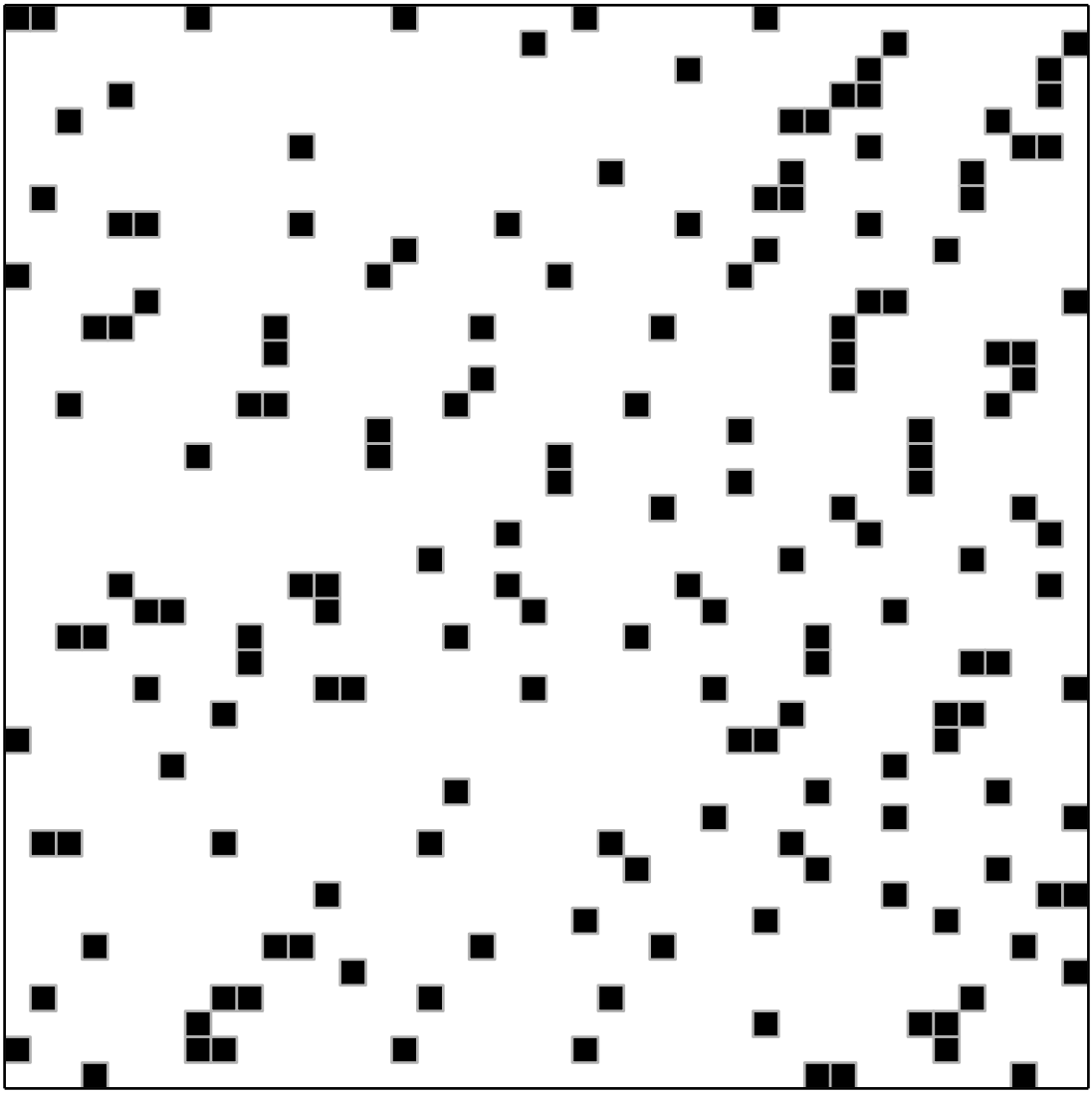
lib1_abel-06 42x42 (174) con: 14, var: 28



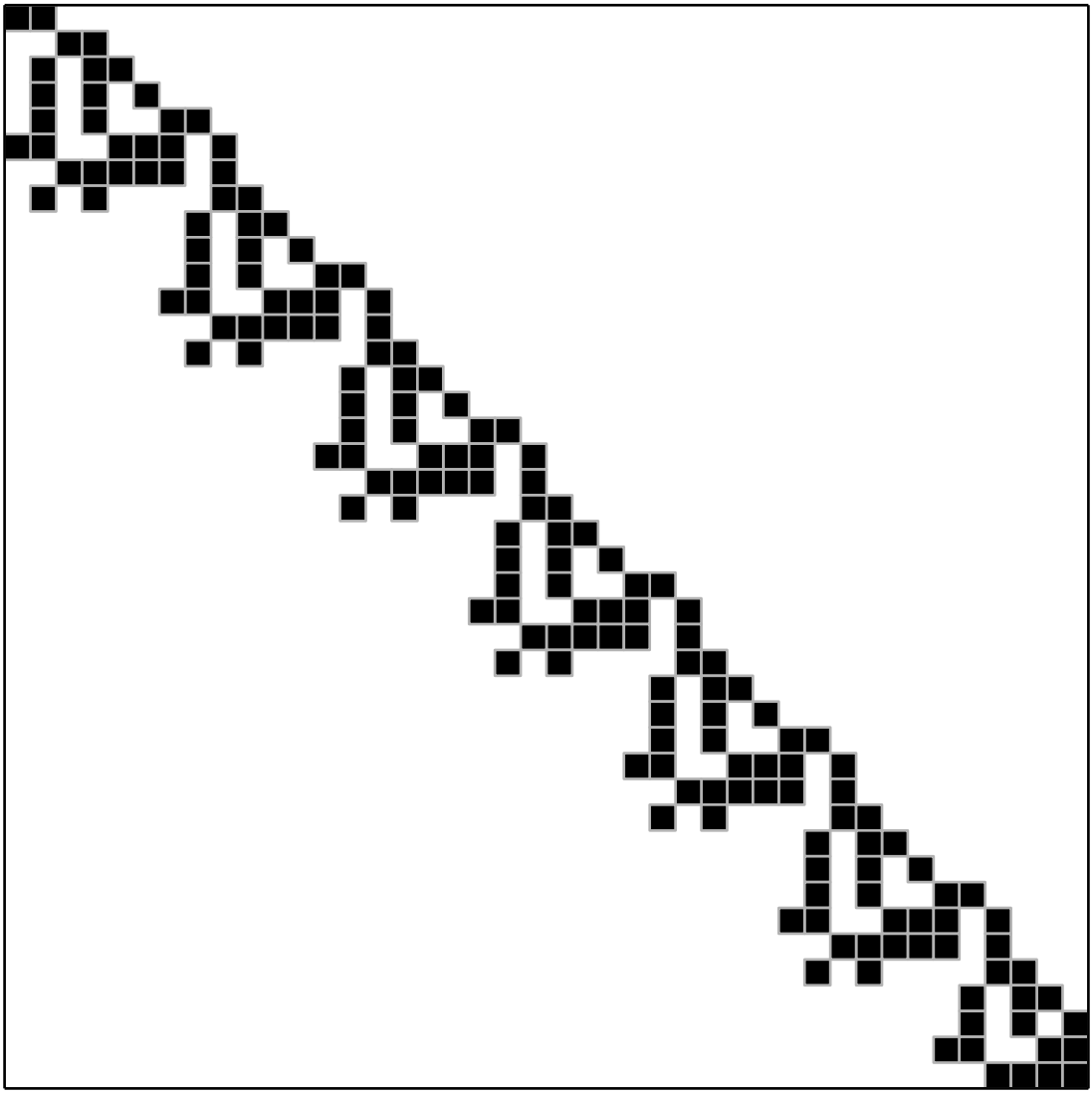
lib1_abel-06, cost: 8, diff: 8, explored: 1914, time: 0.90s



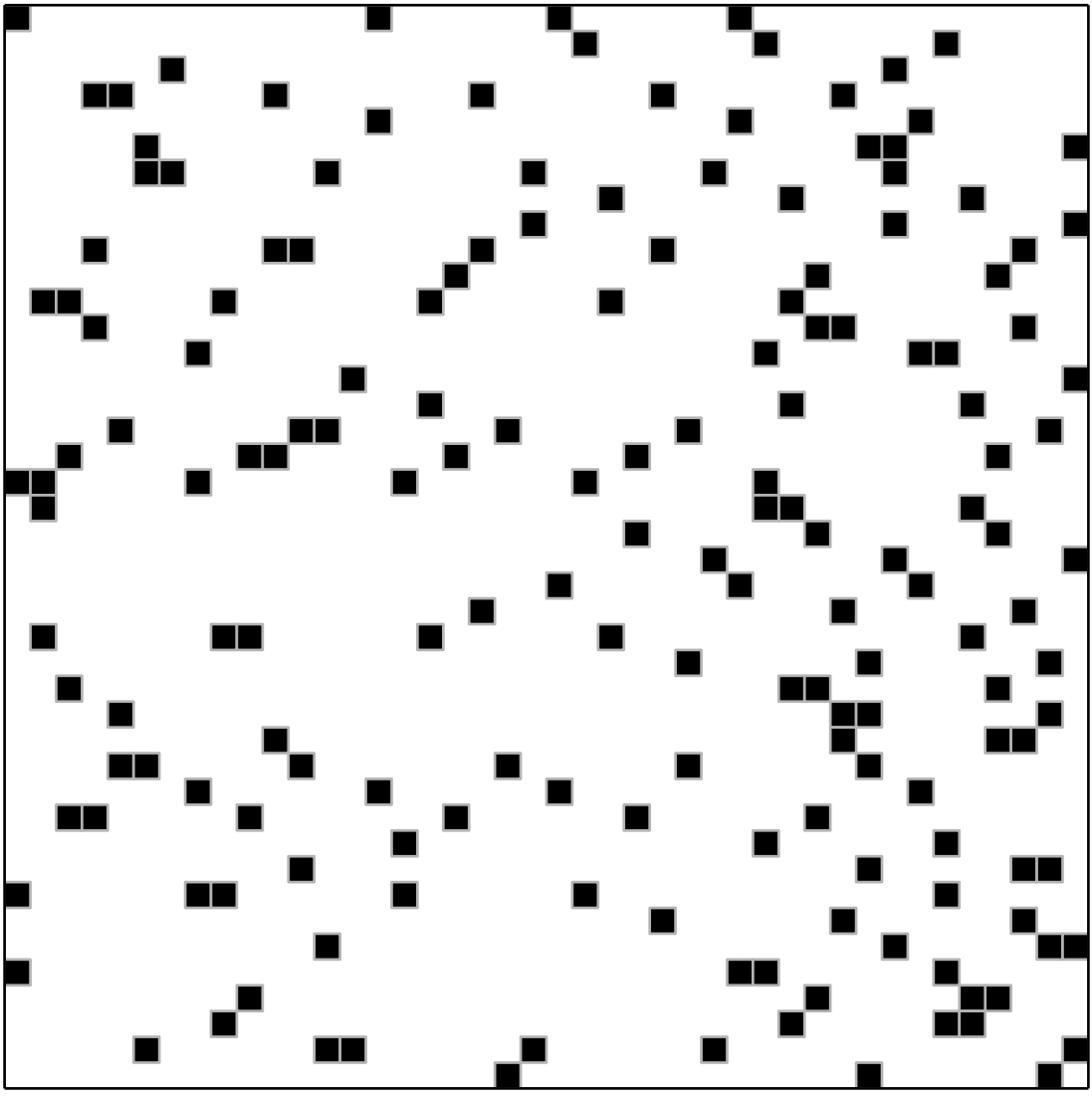
lib1_abel-07 42x42 (174) con: 14, var: 28

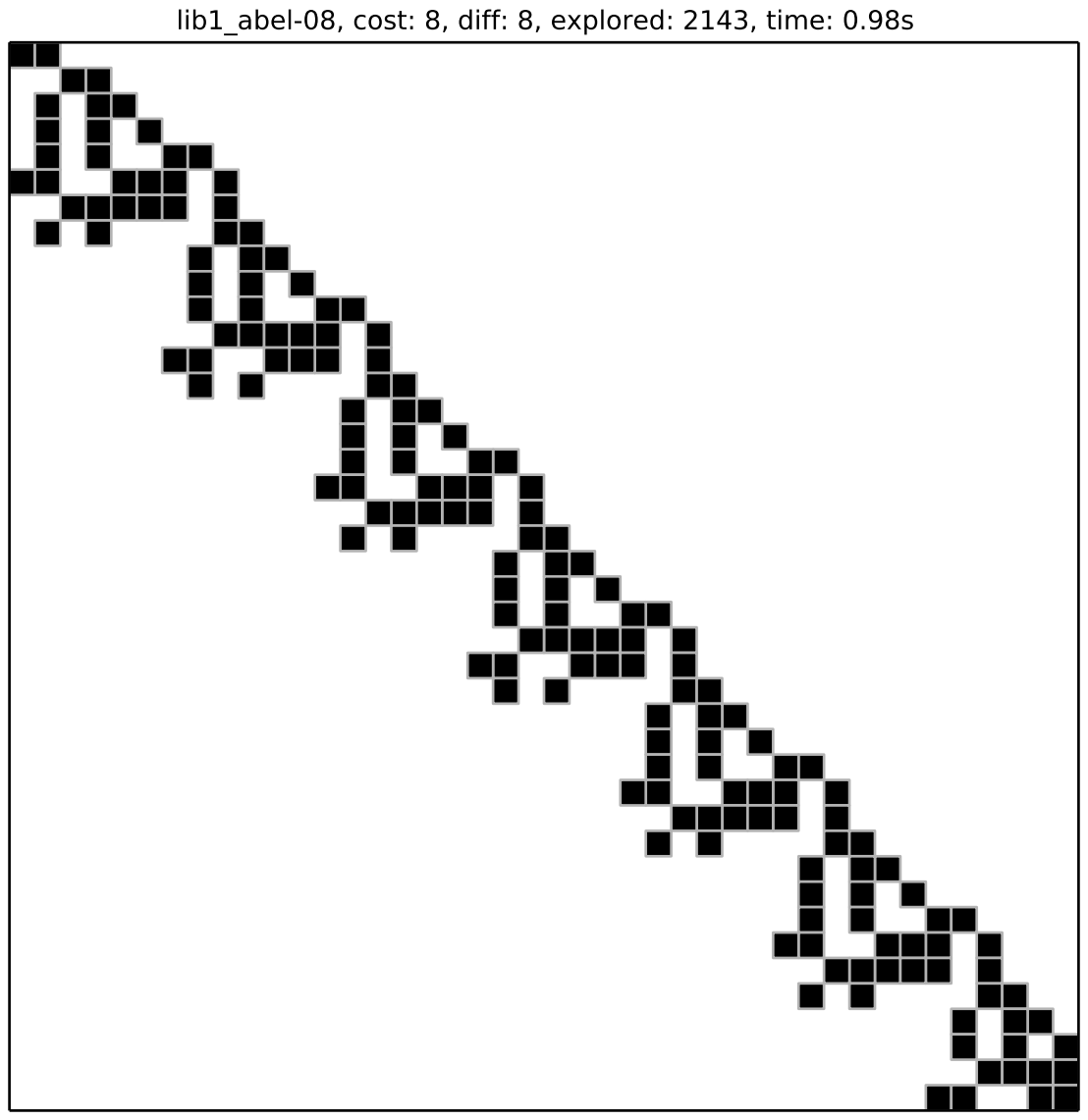


lib1_abel-07, cost: 8, diff: 8, explored: 2020, time: 0.93s

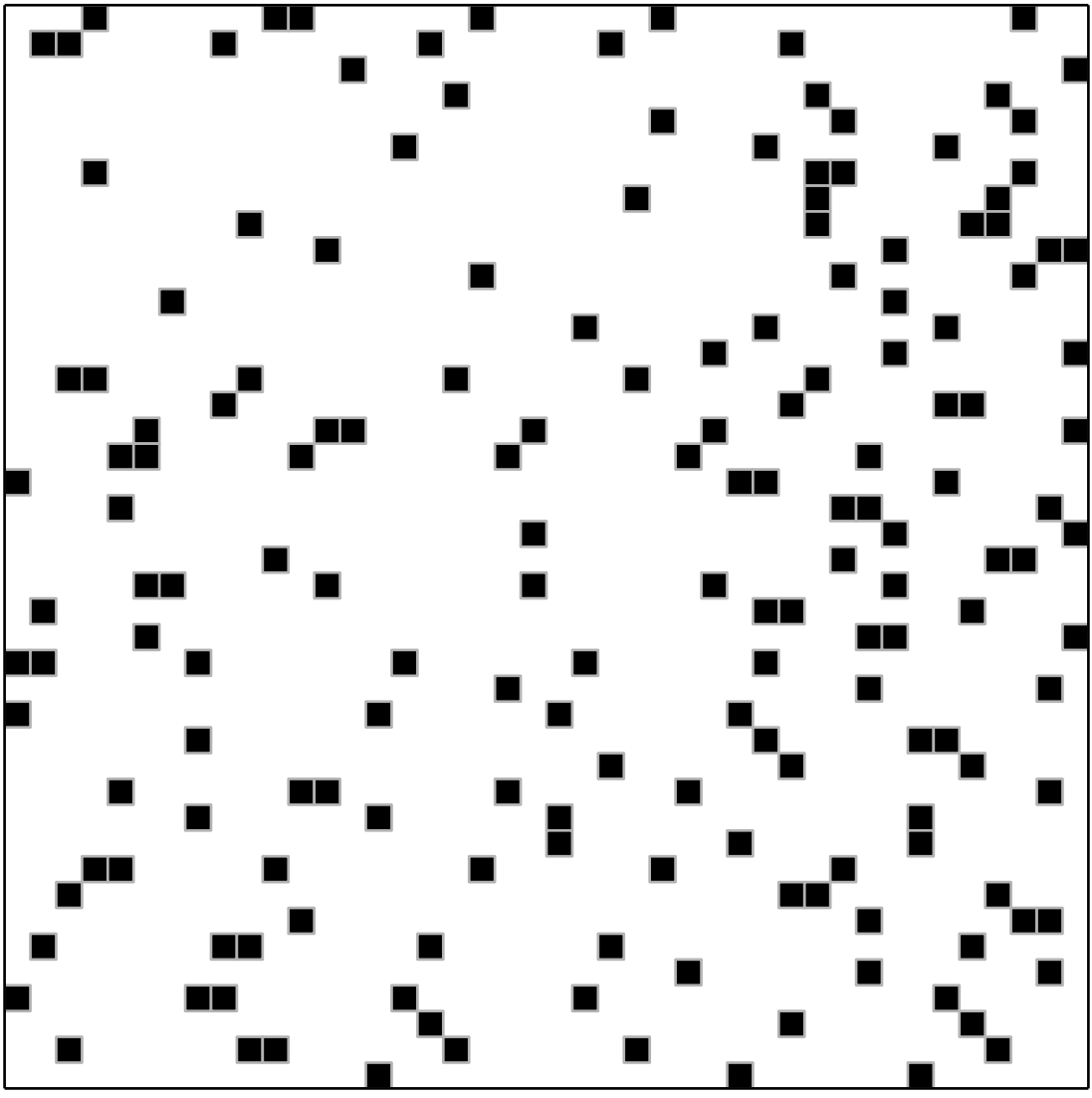


lib1_abel-08 42x42 (174) con: 14, var: 28

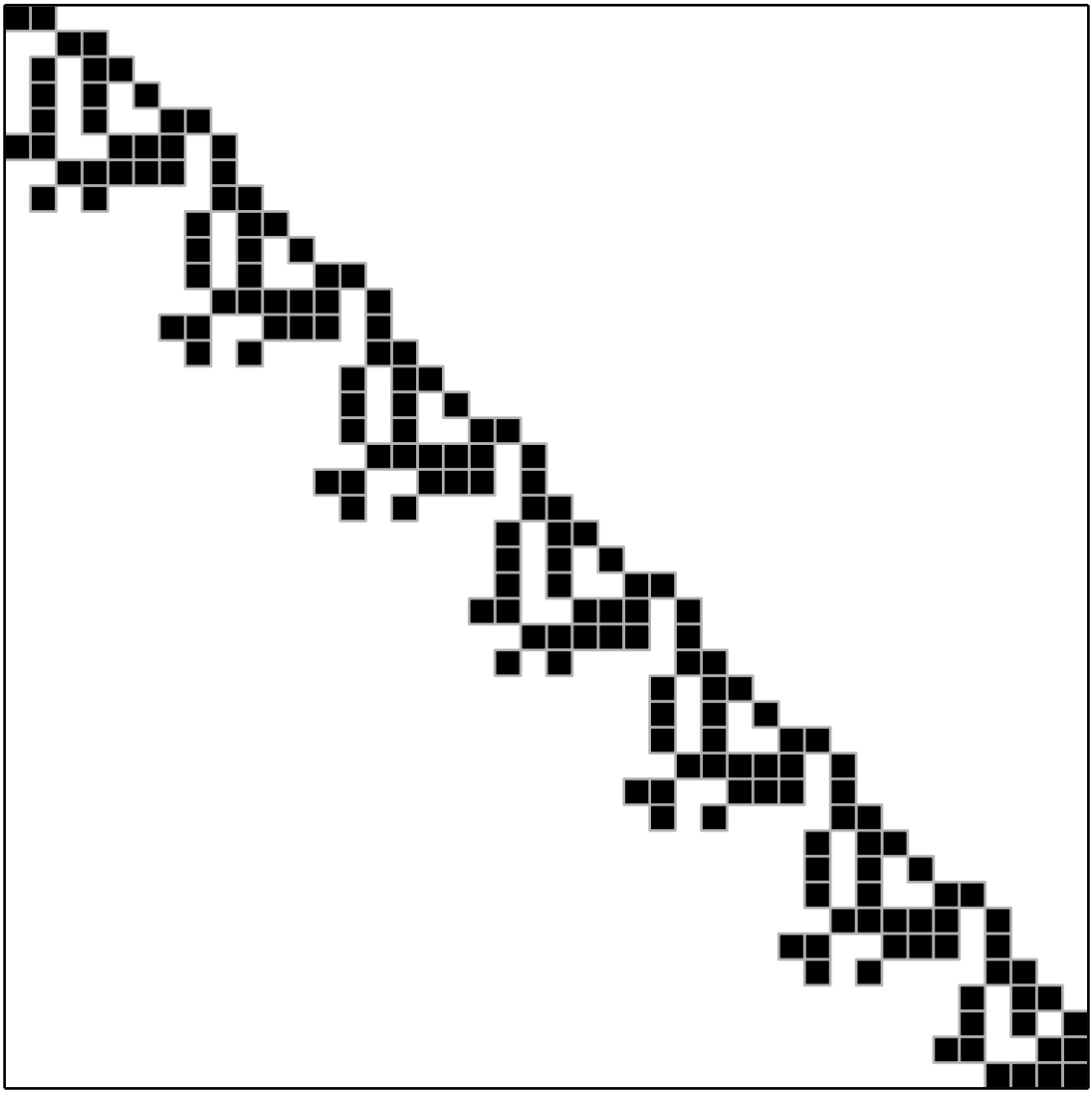


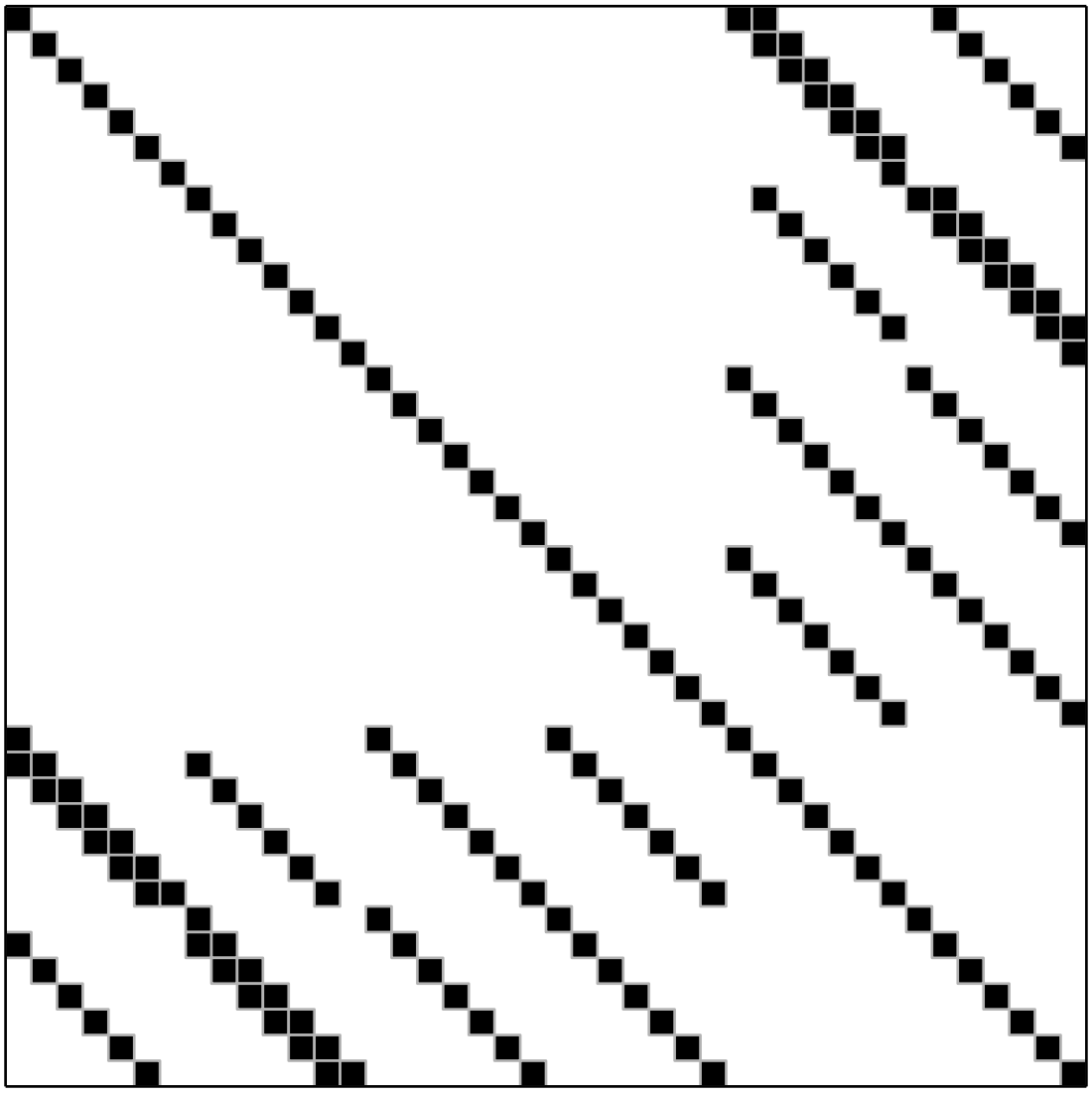

lib1_abel-08, cost: 8, diff: 8, explored: 2143, time: 0.98s

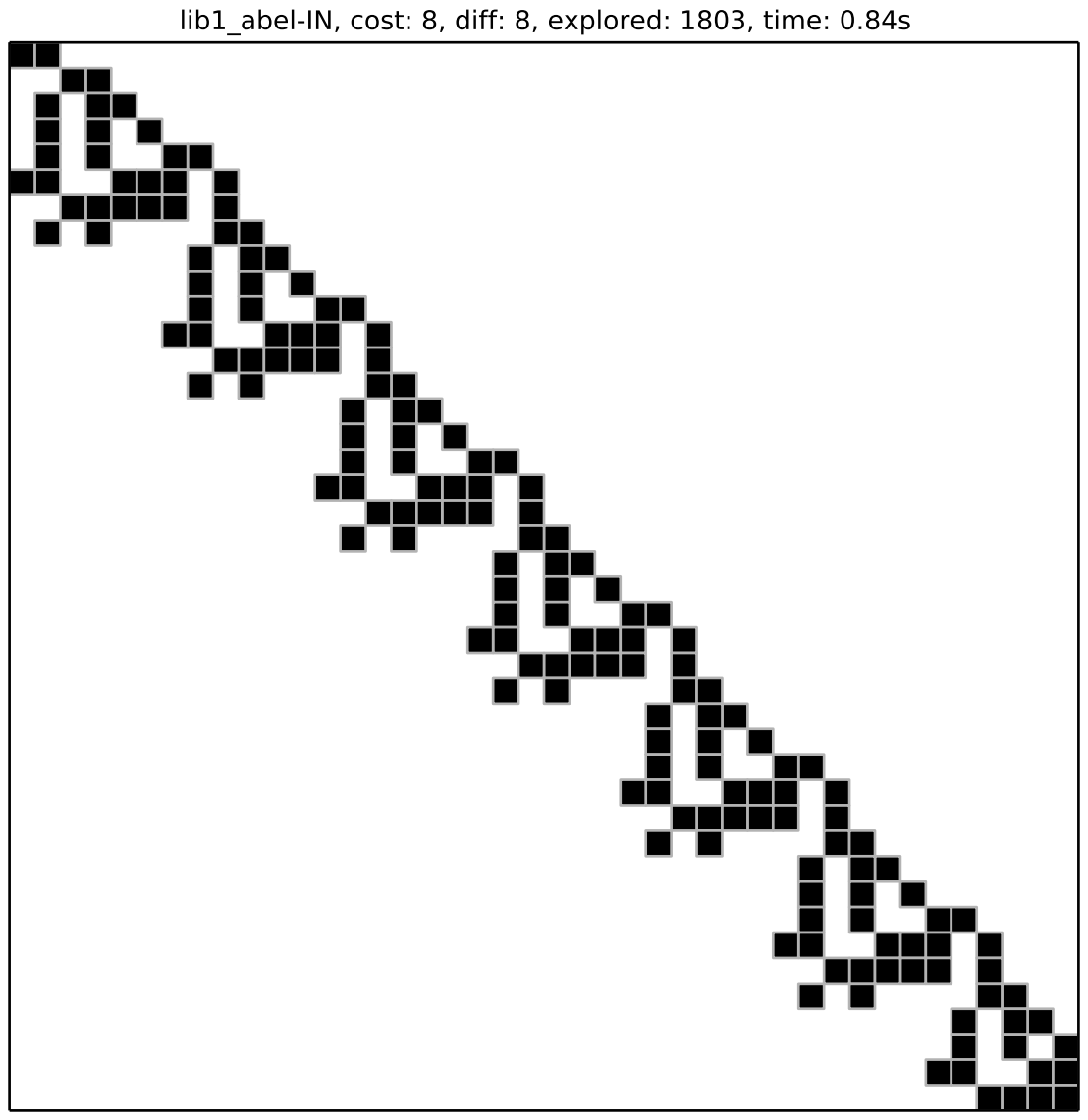
lib1_abel-09 42x42 (174) con: 14, var: 28

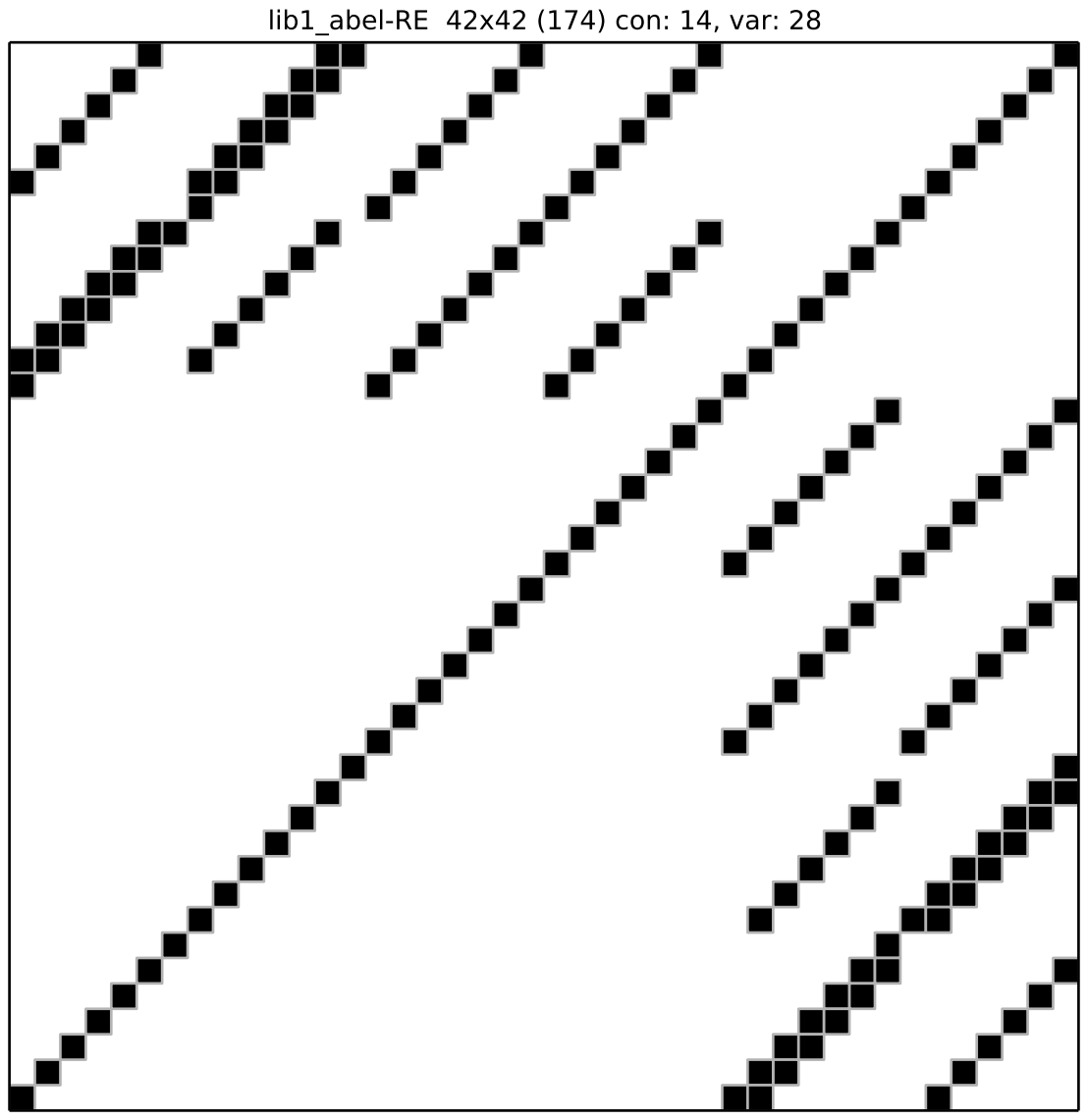


lib1_abel-09, cost: 8, diff: 8, explored: 2143, time: 0.97s

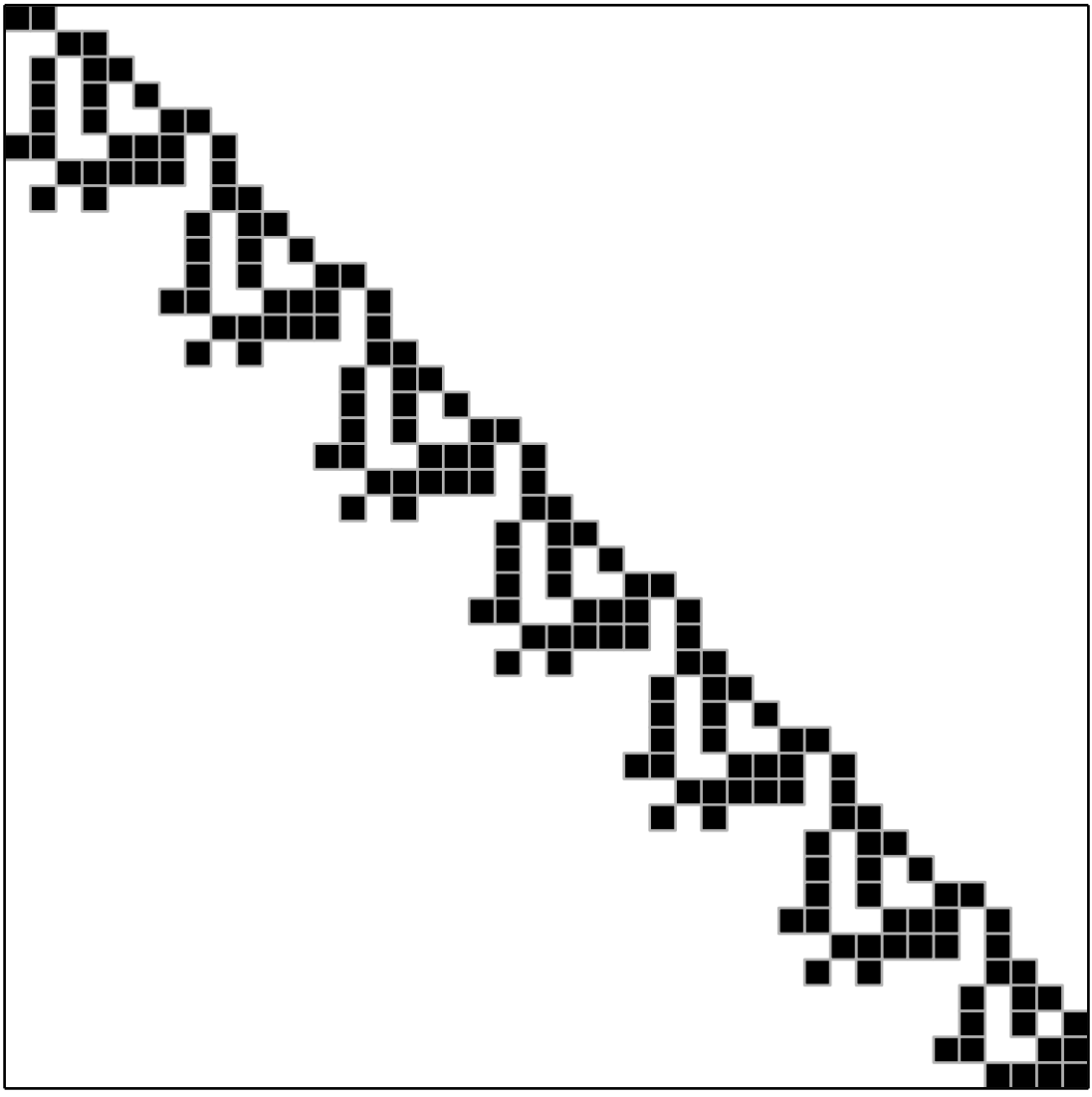


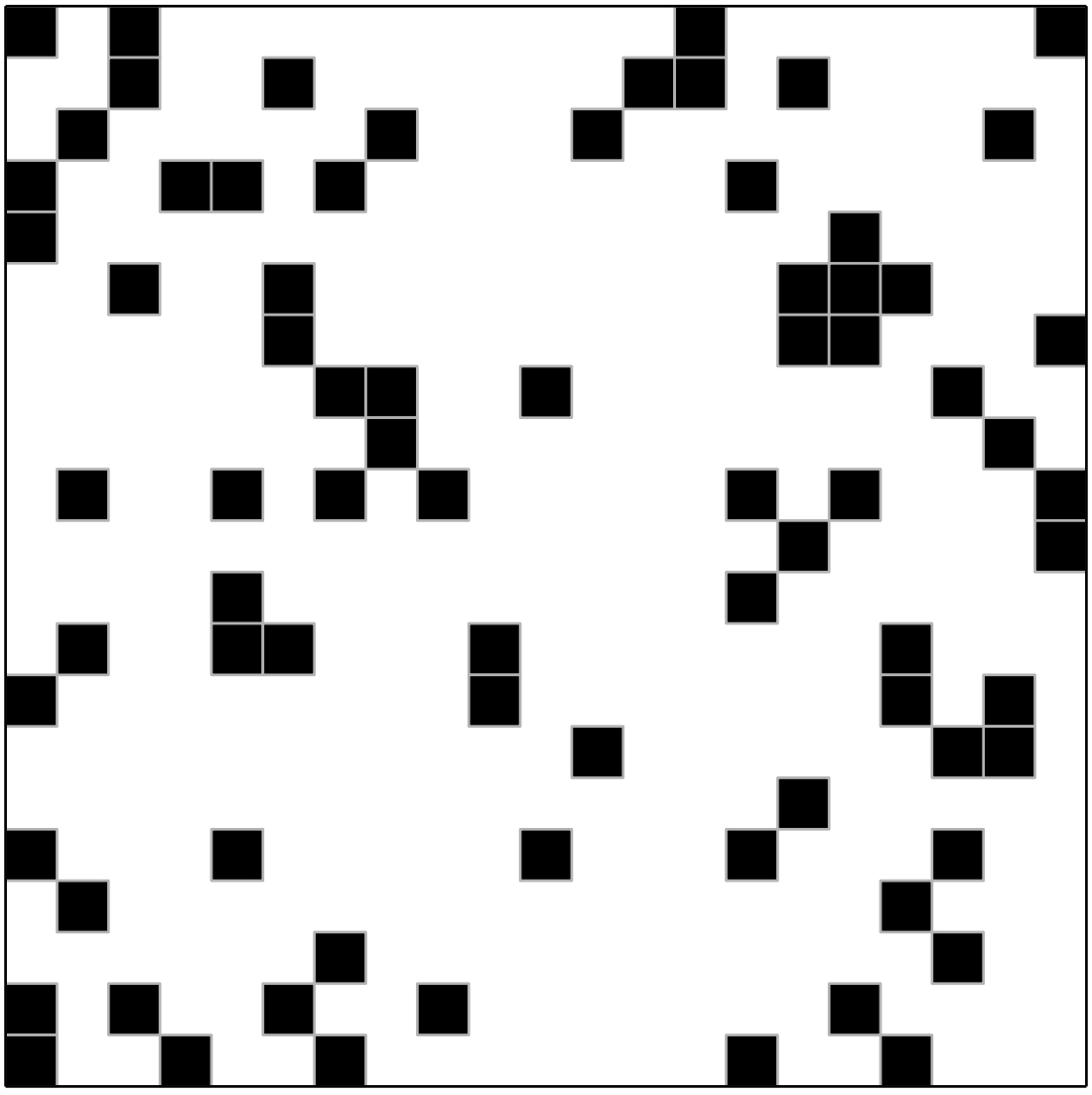

lib1_abel-IN 42x42 (174) con: 14, var: 28

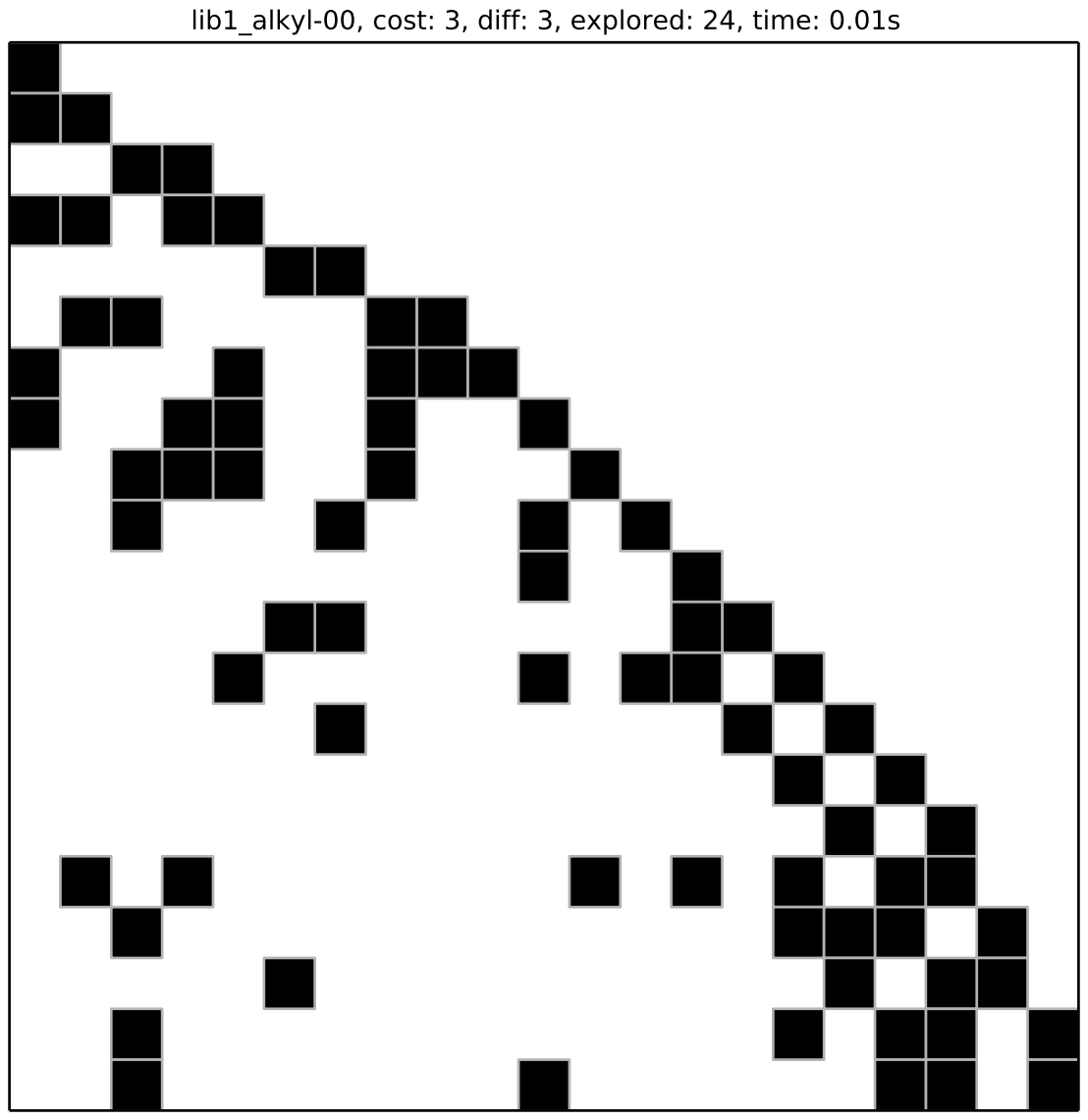

lib1_abel-IN, cost: 8, diff: 8, explored: 1803, time: 0.84s

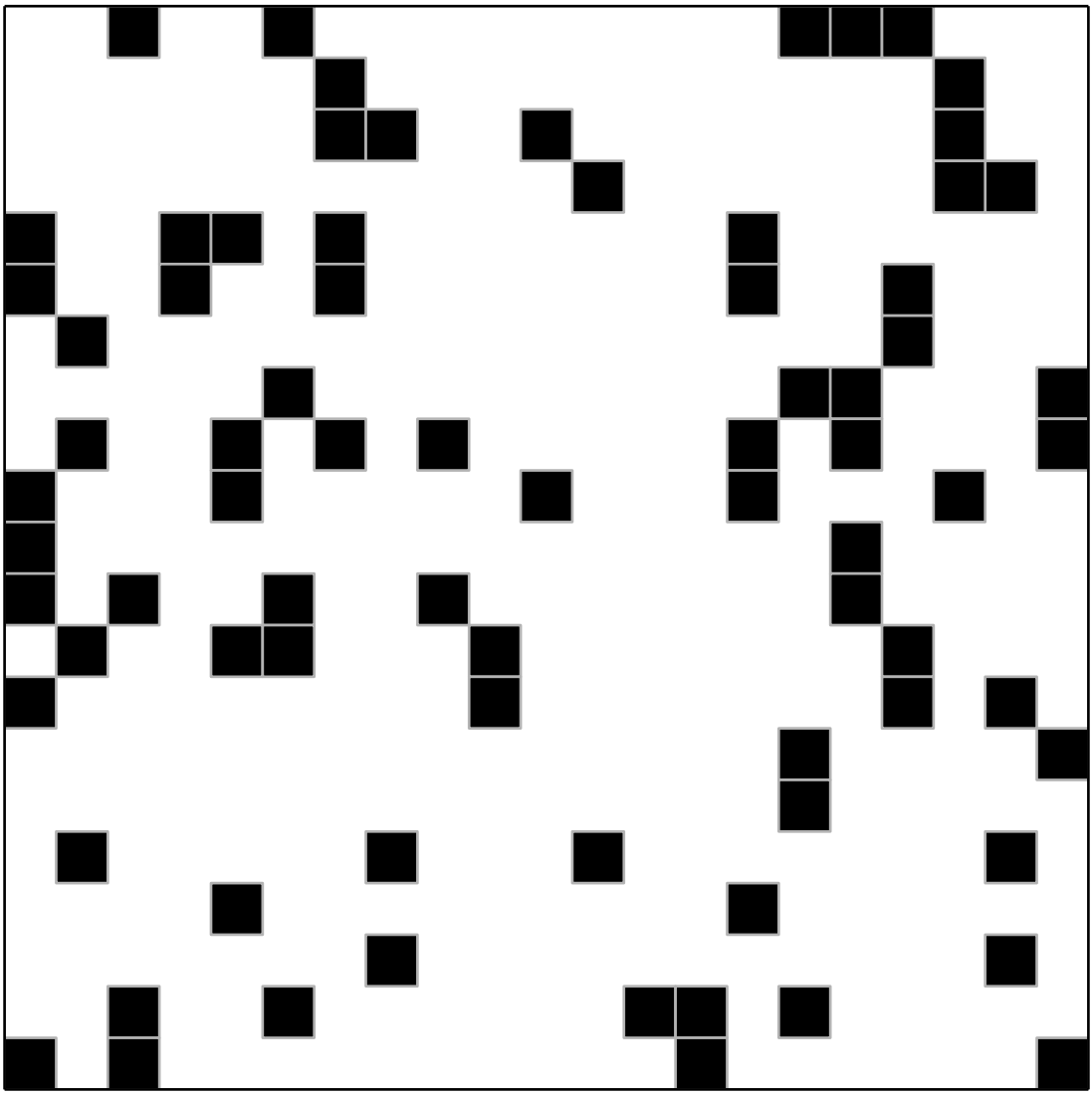

lib1_abel-RE 42x42 (174) con: 14, var: 28

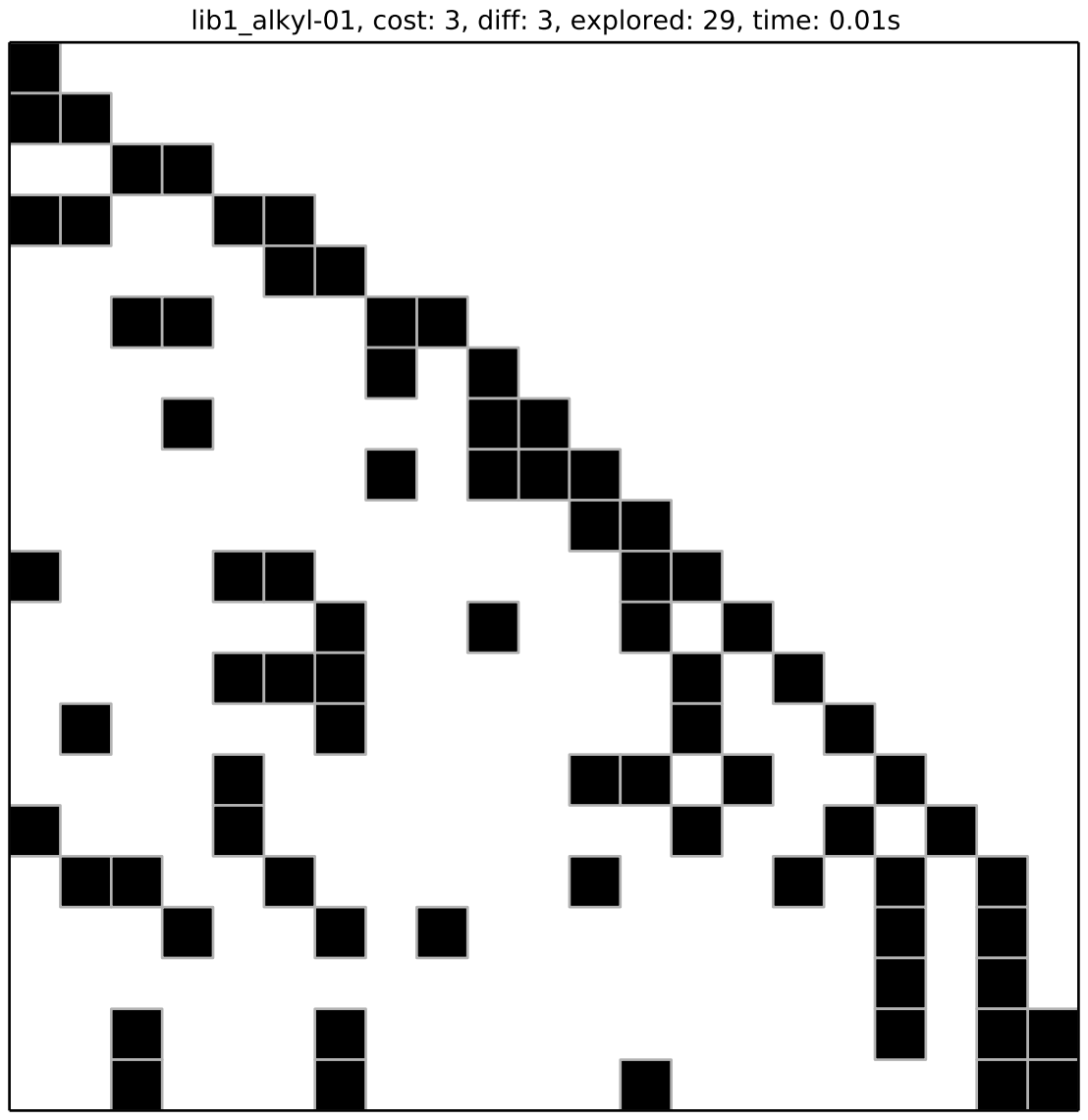
lib1_abel-RE, cost: 8, diff: 8, explored: 2185, time: 1.01s

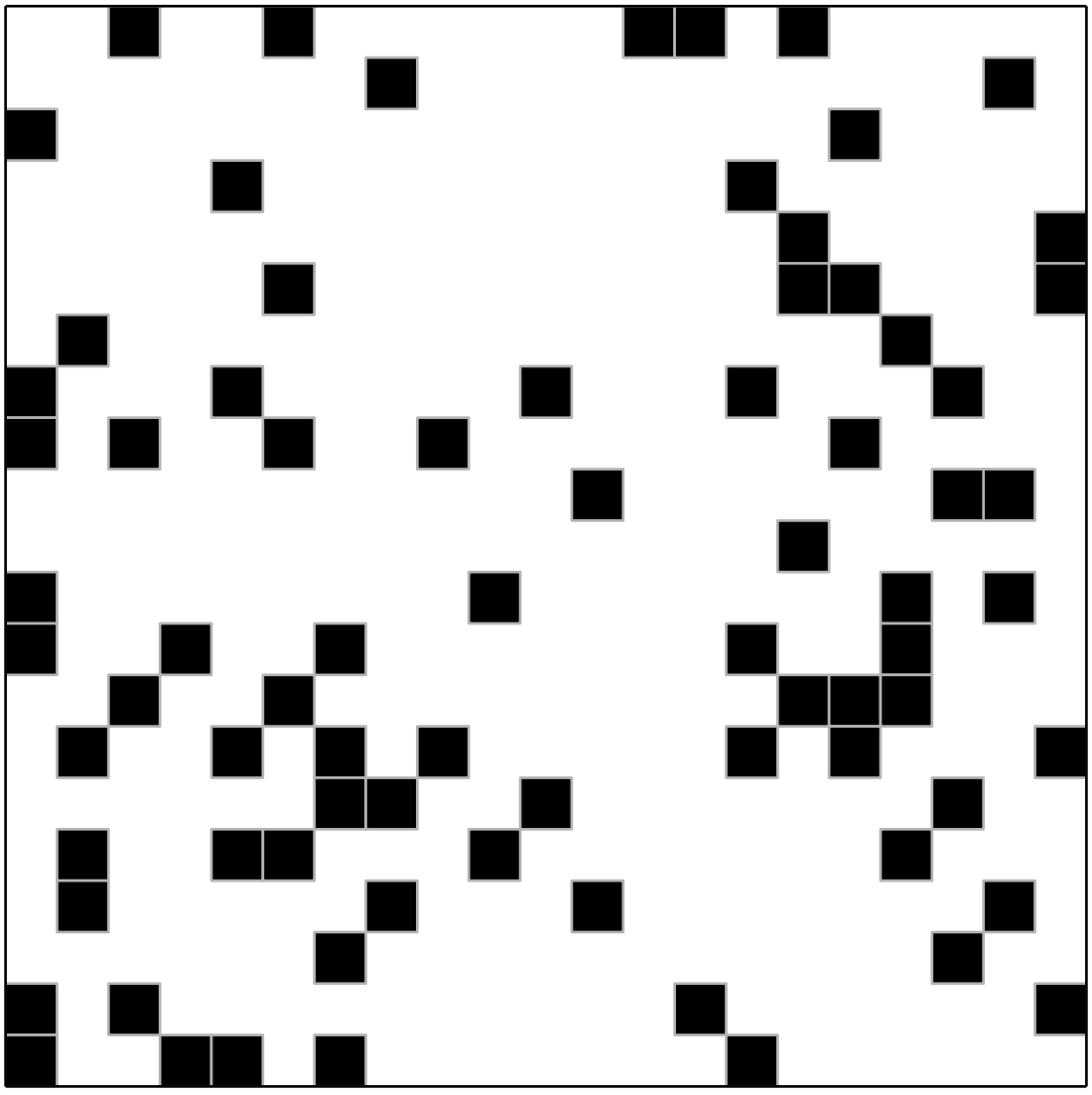


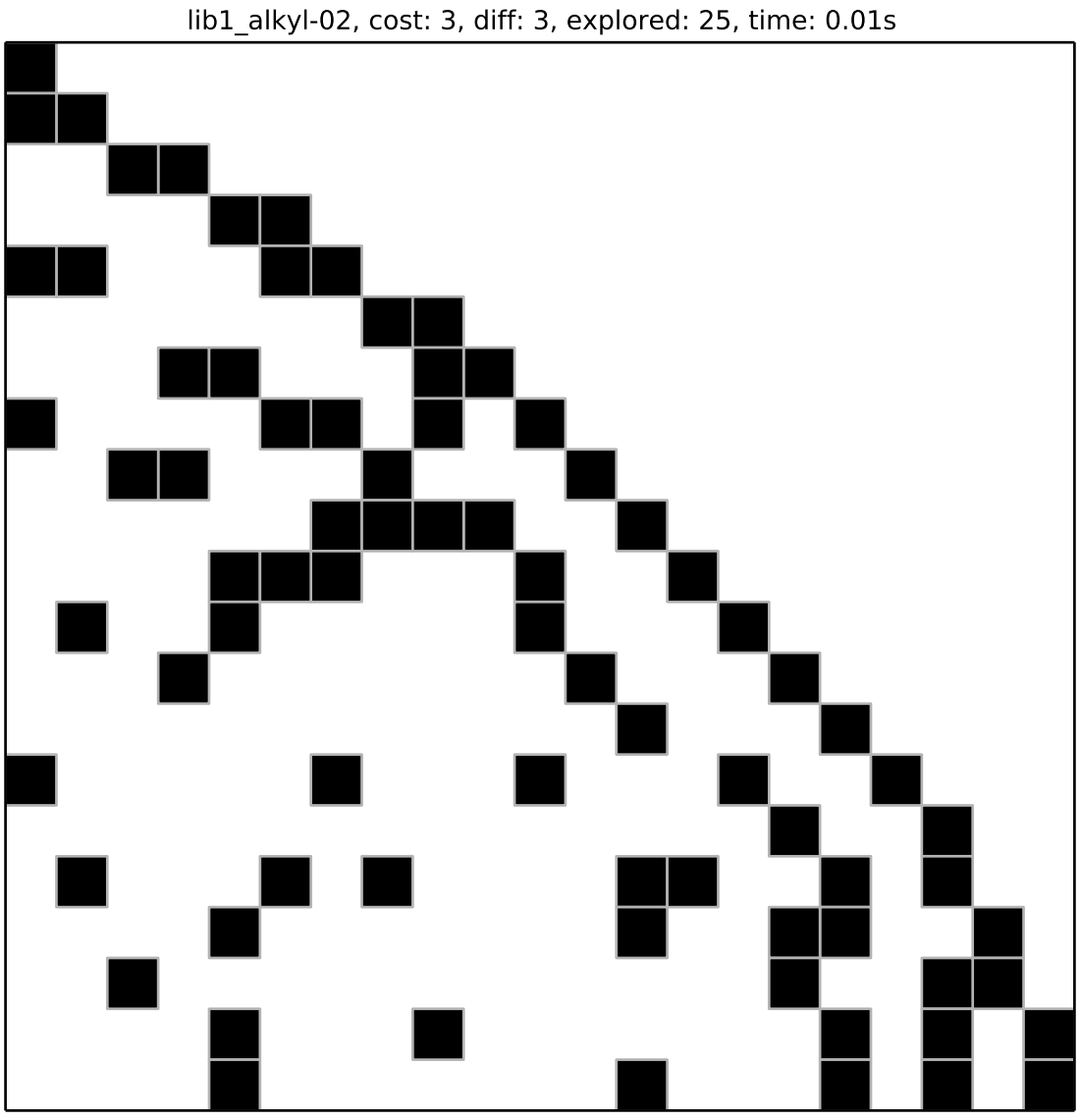

lib1_alkyl-00 21x21 (78) con: 7, var: 14

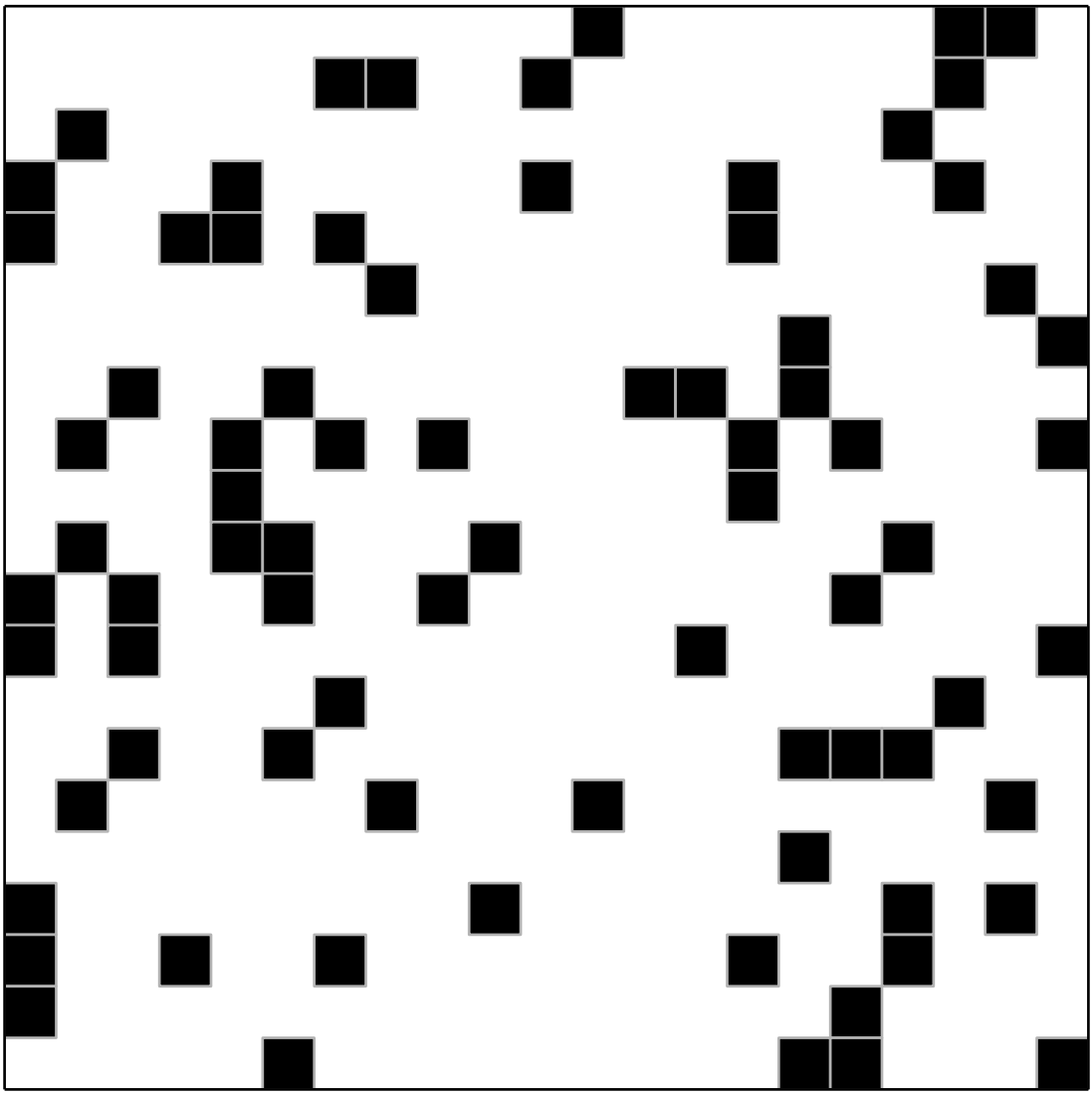

lib1_alkyl-00, cost: 3, diff: 3, explored: 24, time: 0.01s

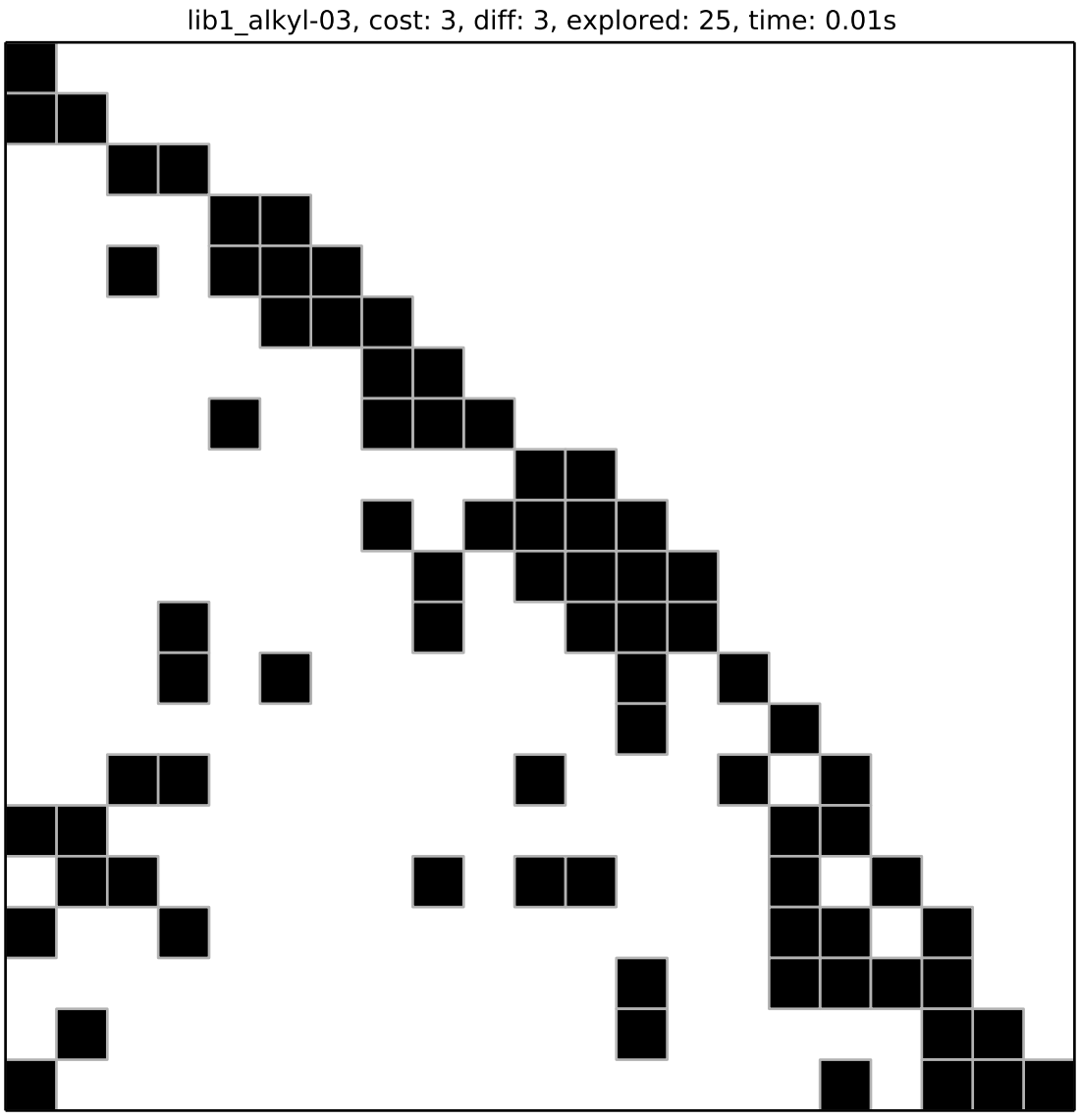

lib1_alkyl-01 21x21 (78) con: 7, var: 14


lib1_alkyl-01, cost: 3, diff: 3, explored: 29, time: 0.01s


lib1_alkyl-02 21x21 (78) con: 7, var: 14


lib1_alkyl-02, cost: 3, diff: 3, explored: 25, time: 0.01s


lib1_alkyl-03 21x21 (78) con: 7, var: 14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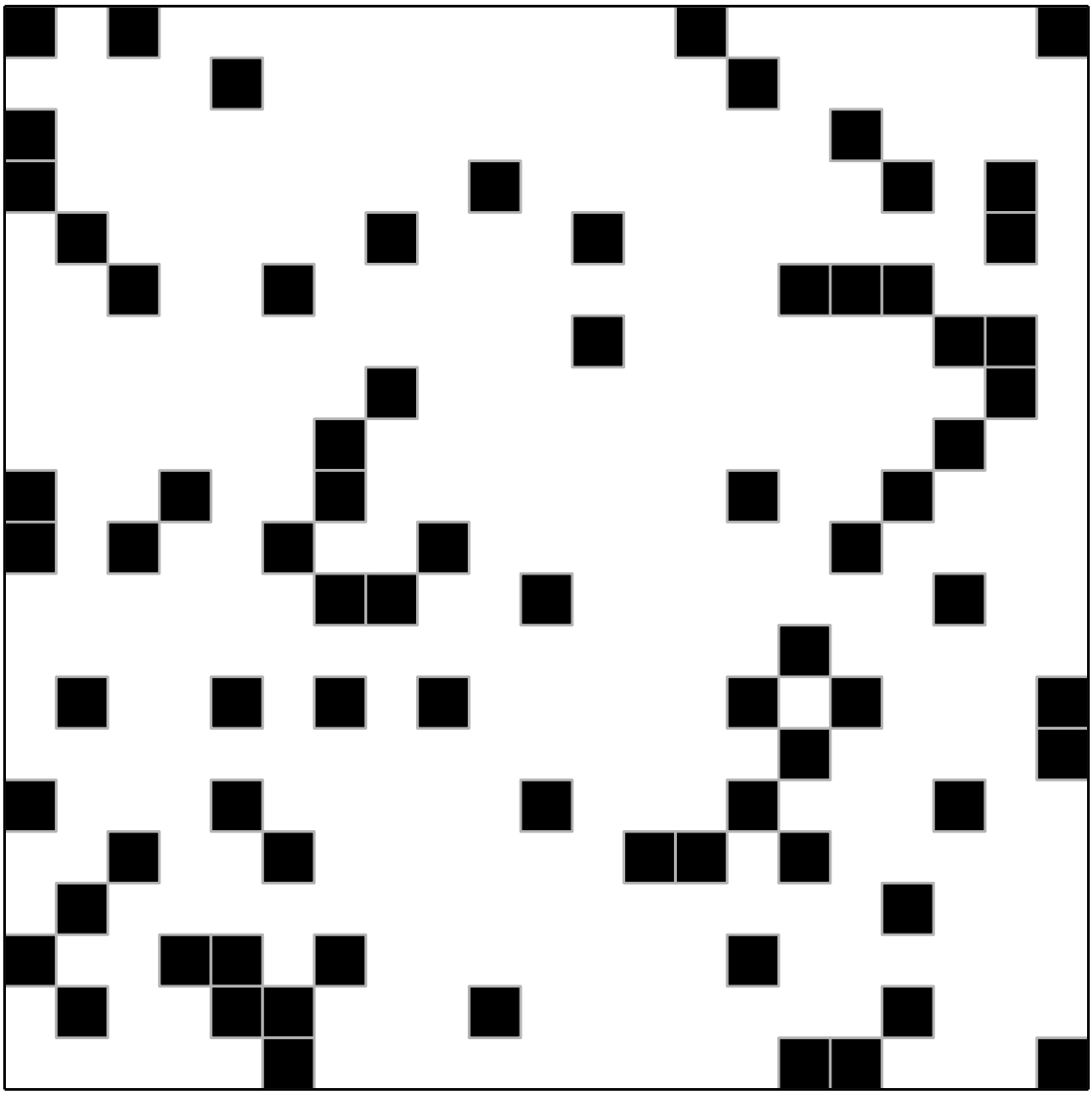
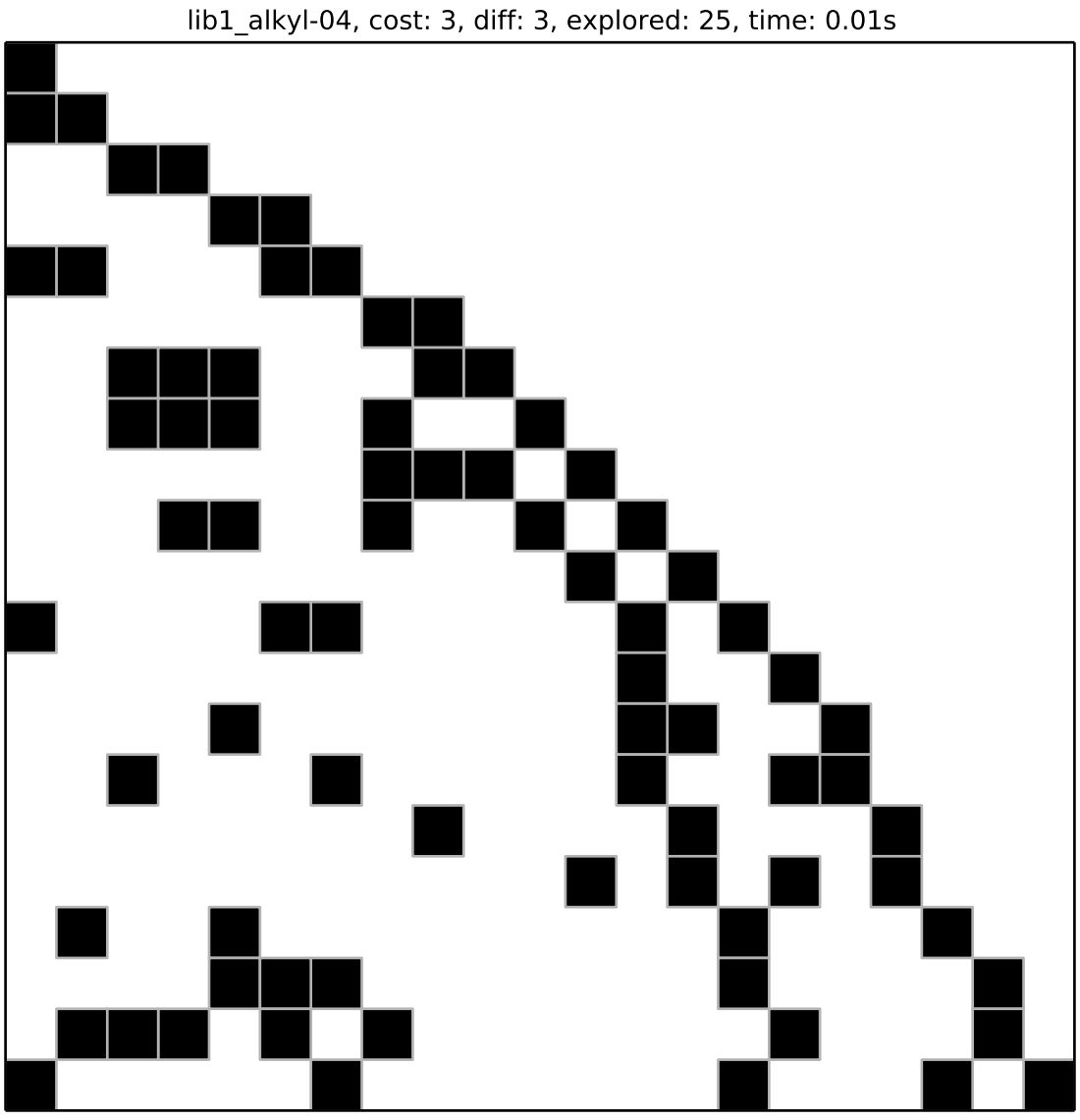

lib1_alkyl-04 21x21 (78) con: 7, var: 14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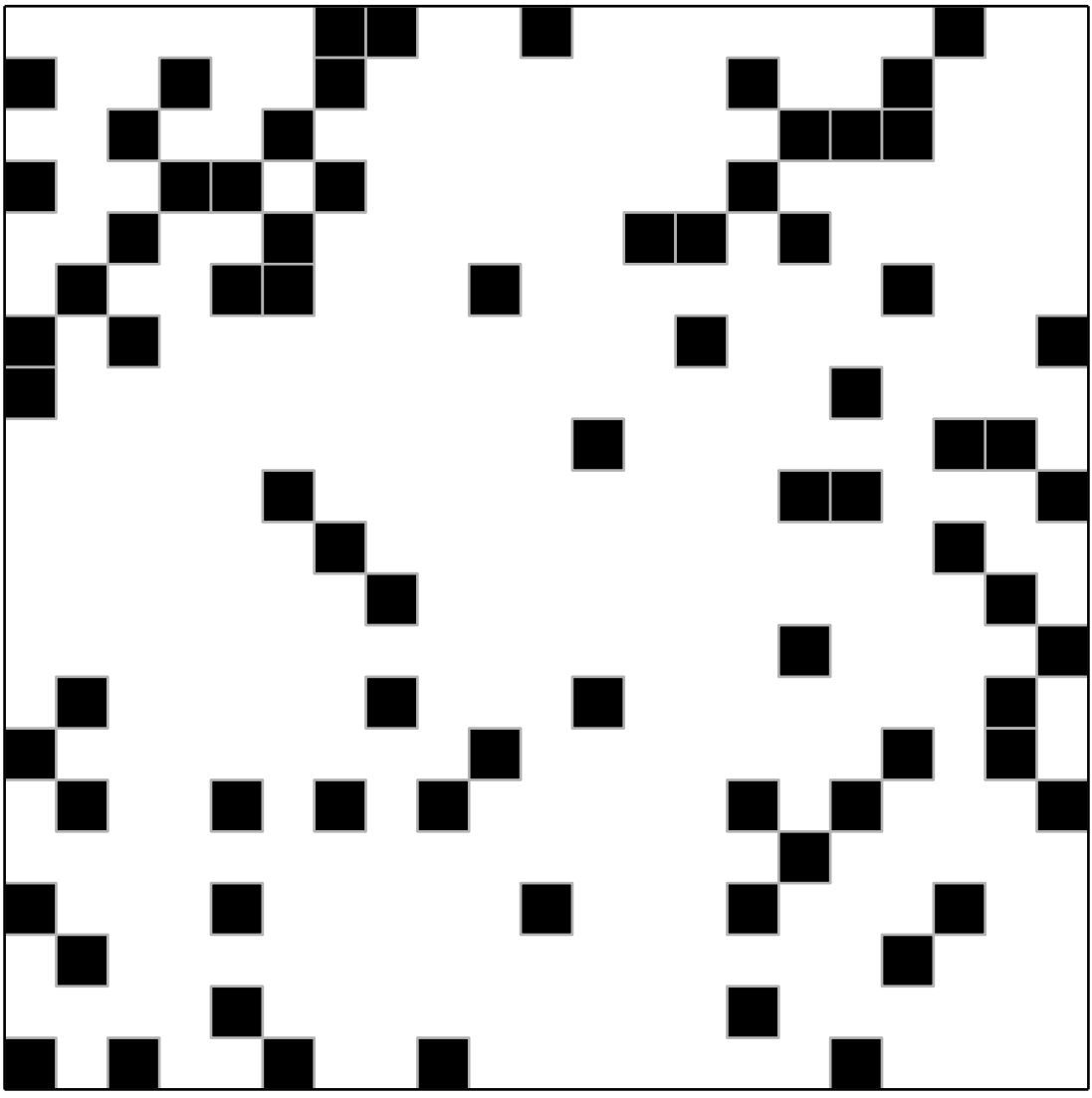
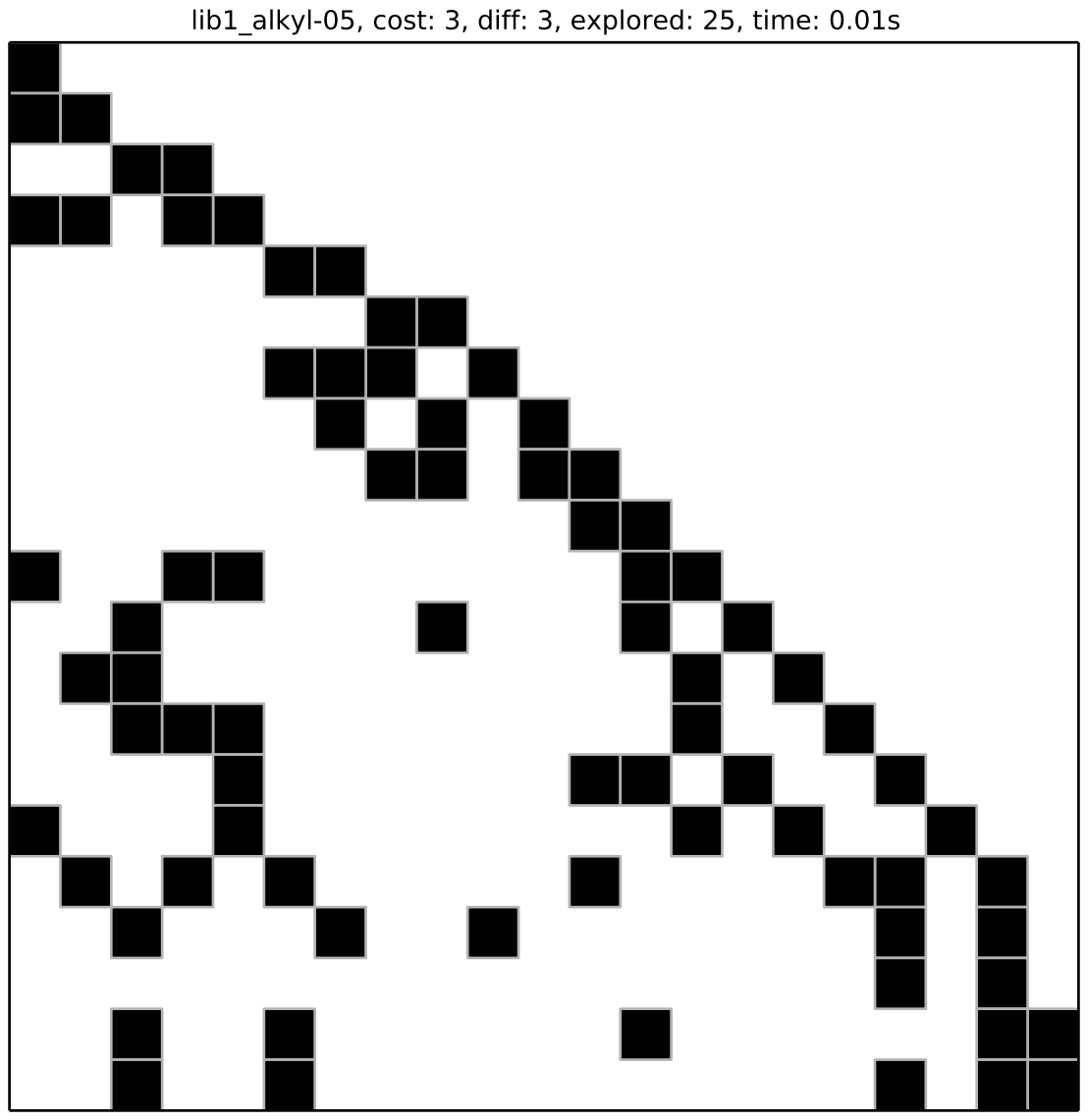

lib1_alkyl-05 21x21 (78) con: 7, var: 14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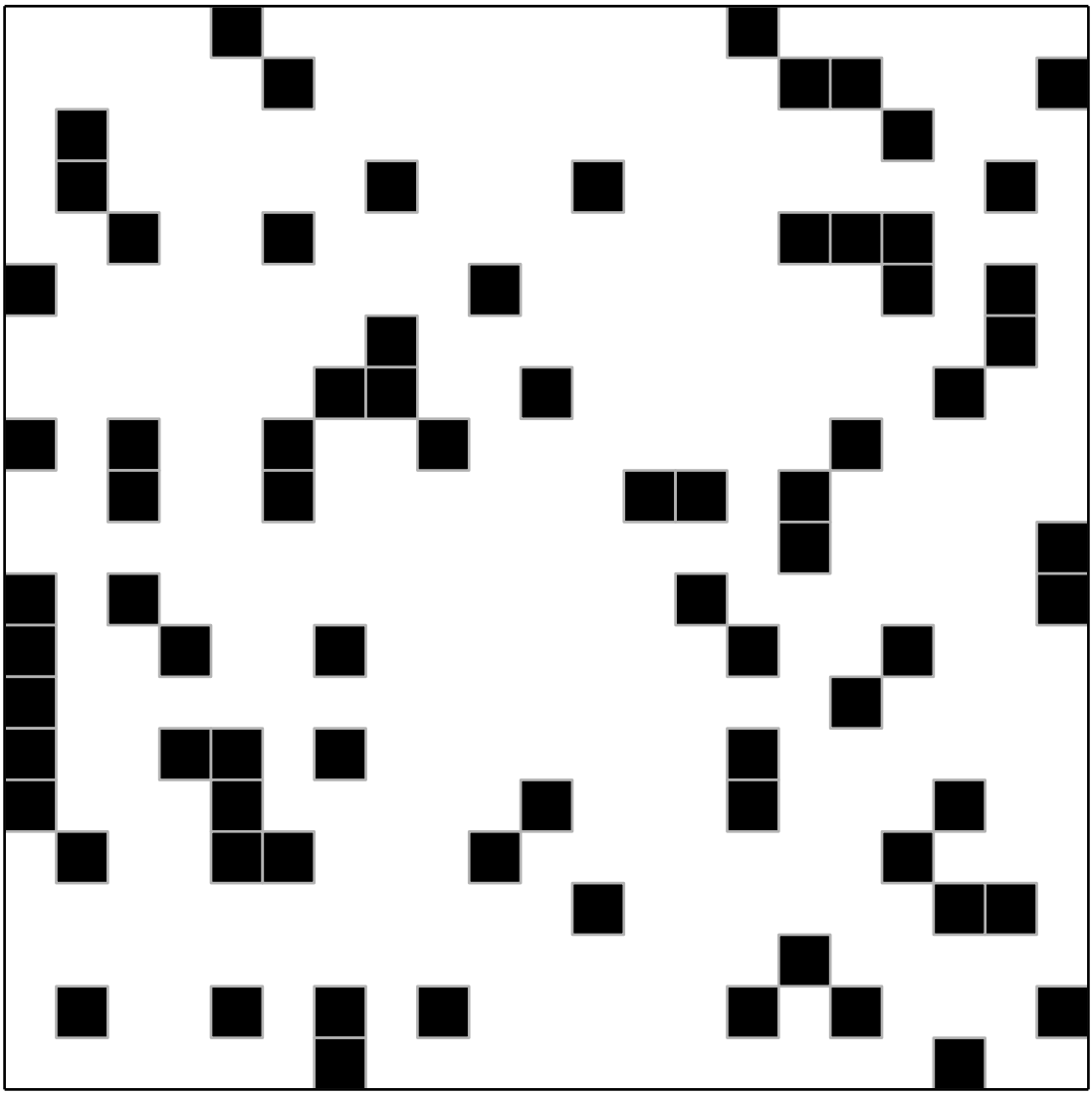
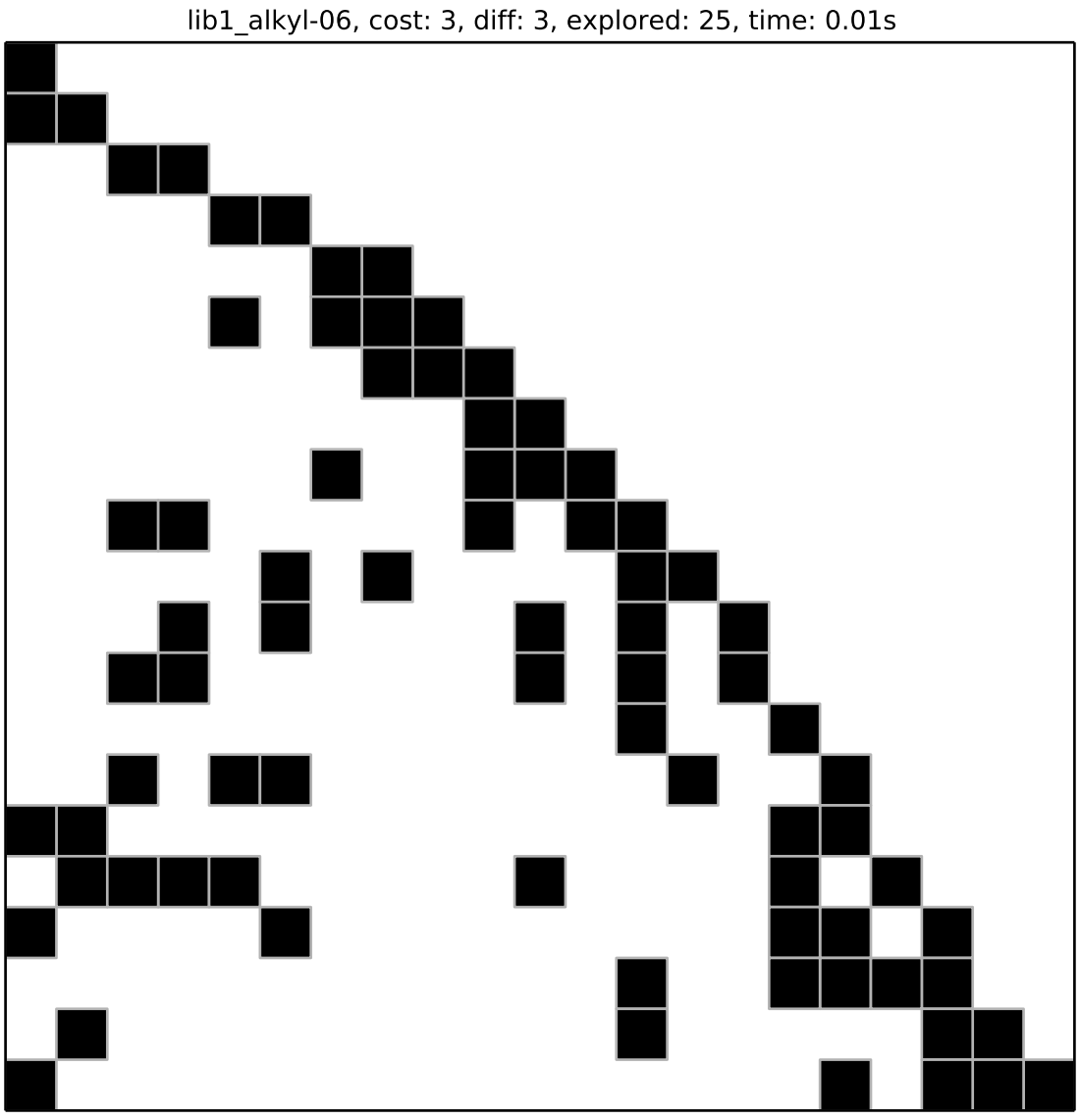

lib1_alkyl-06 21x21 (78) con: 7, var: 14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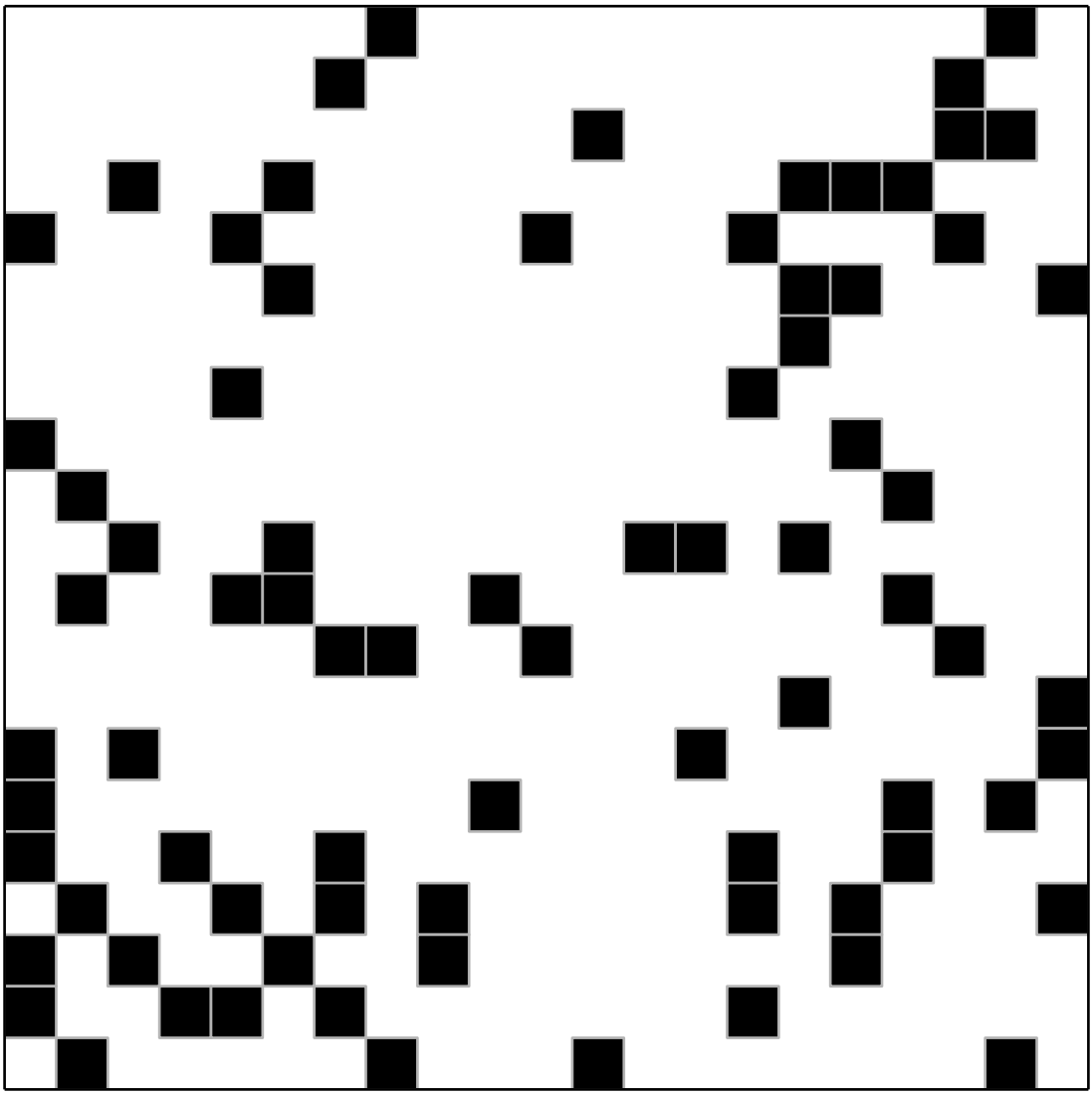
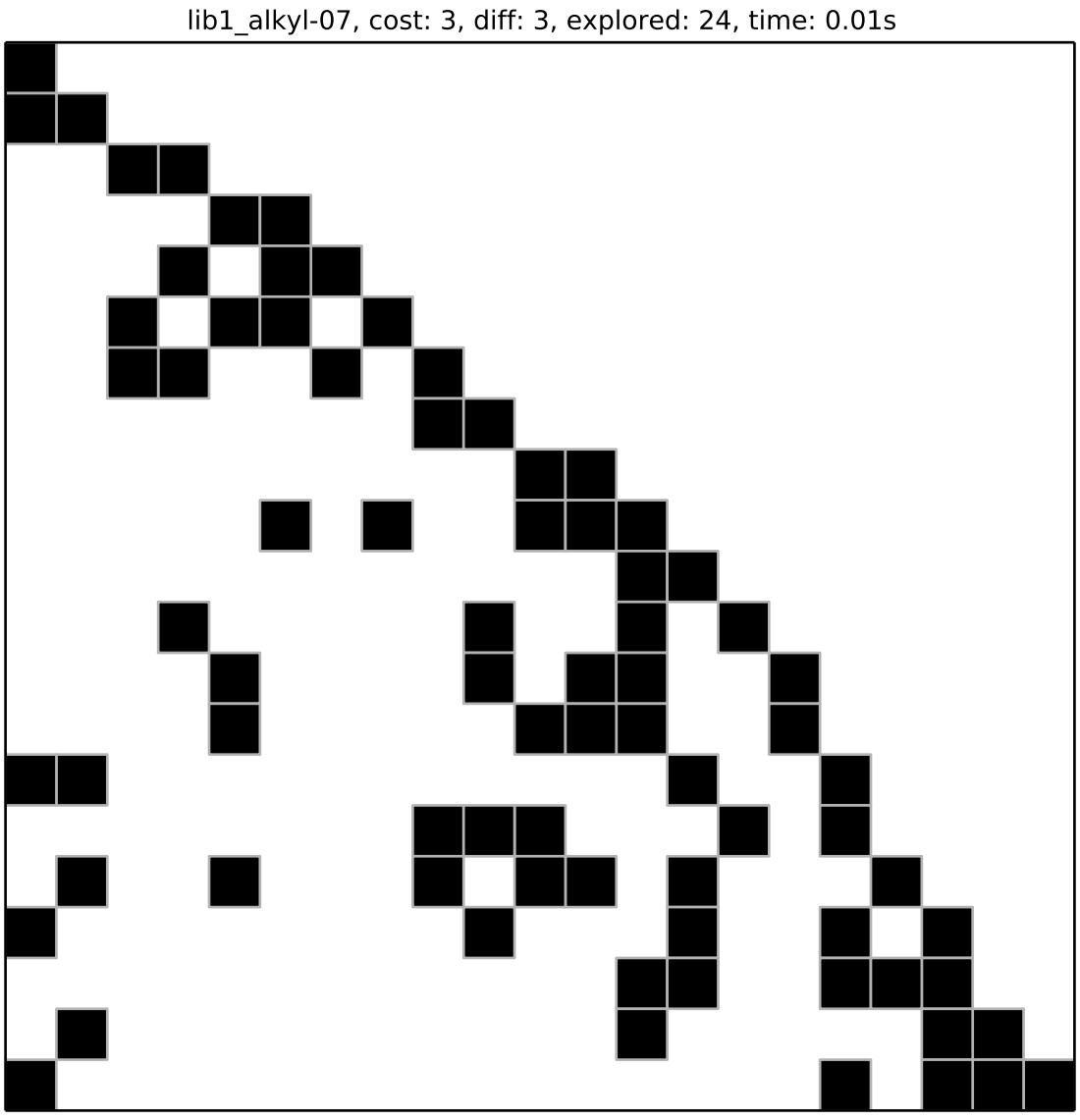
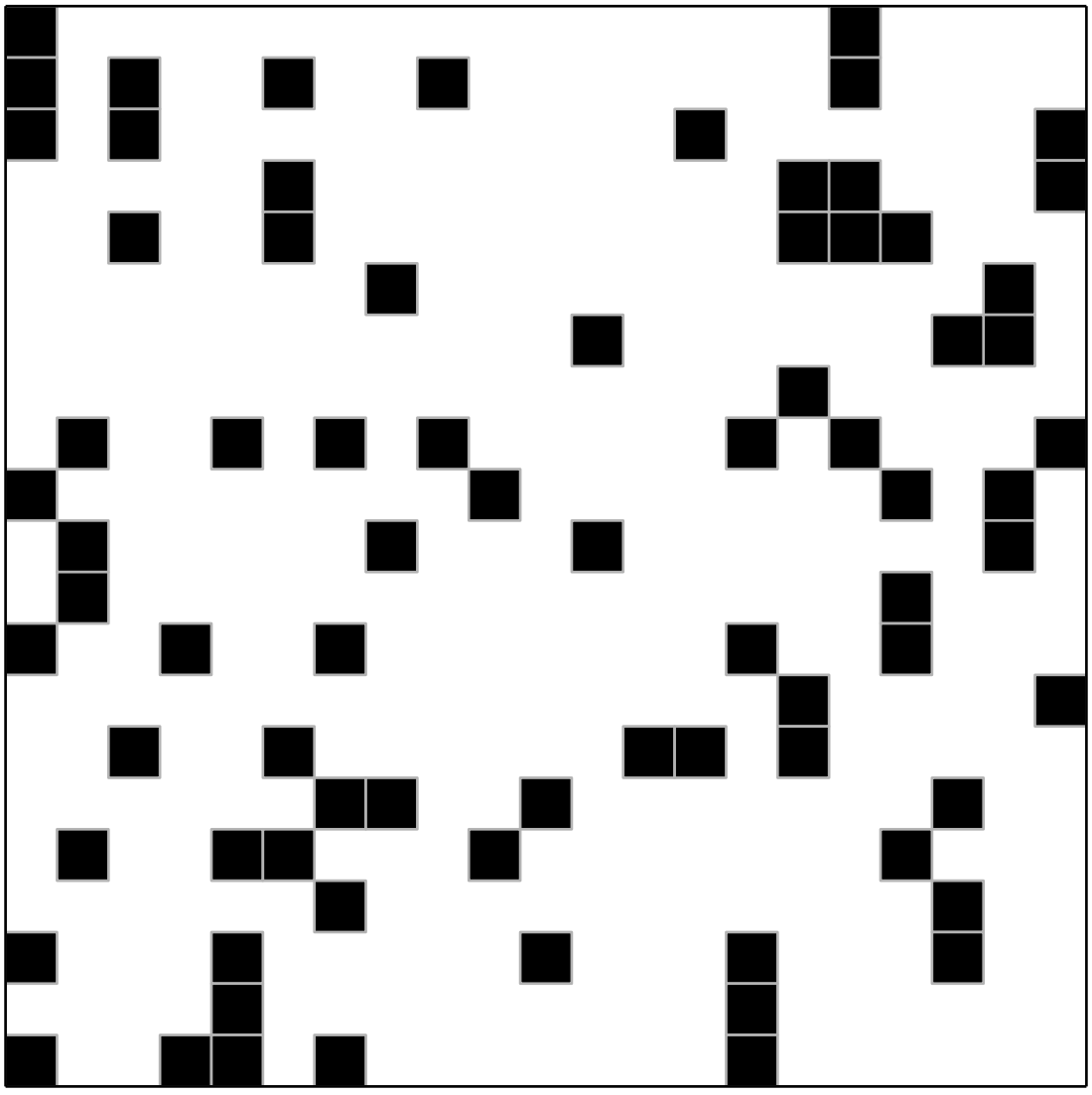
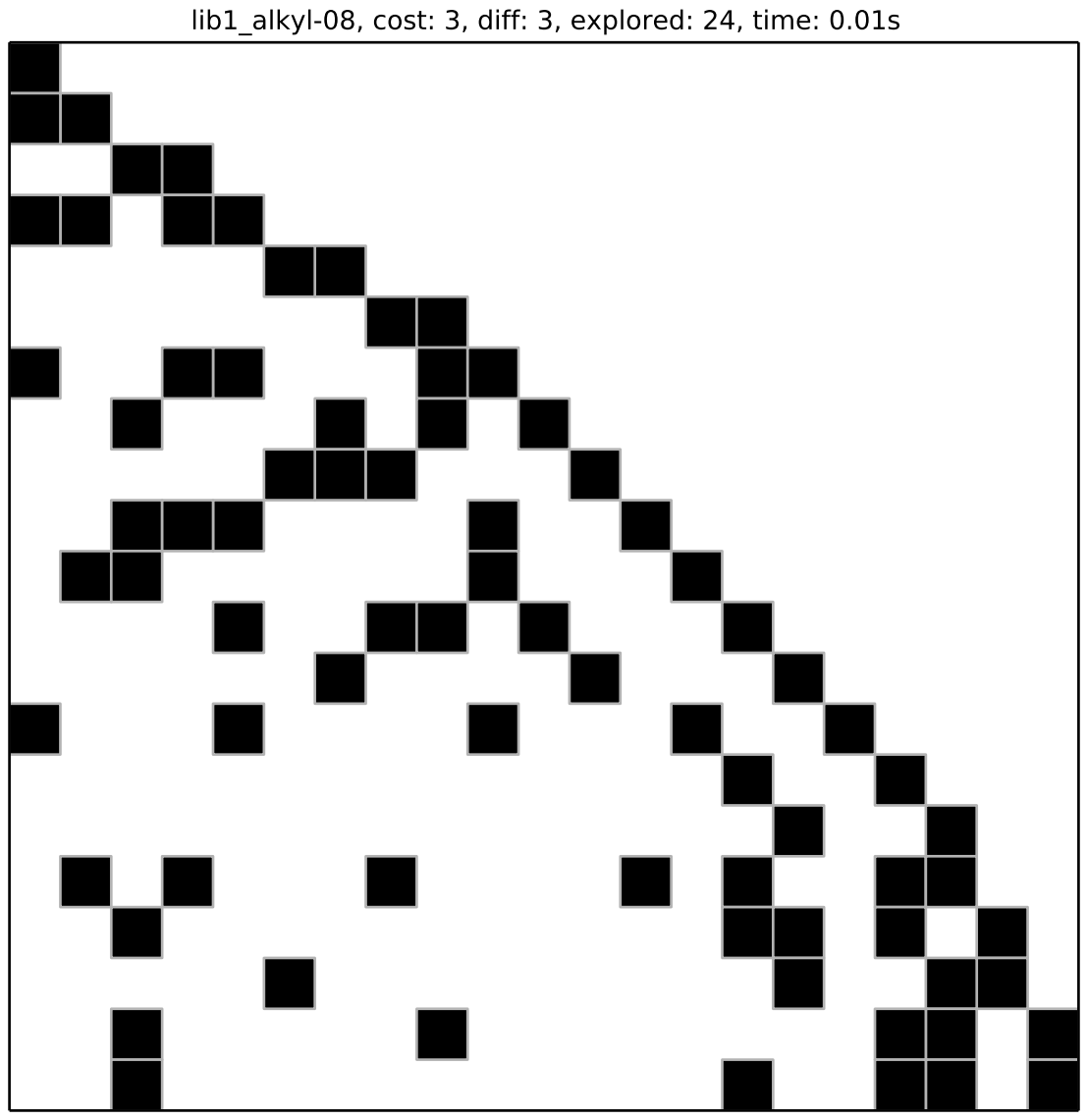
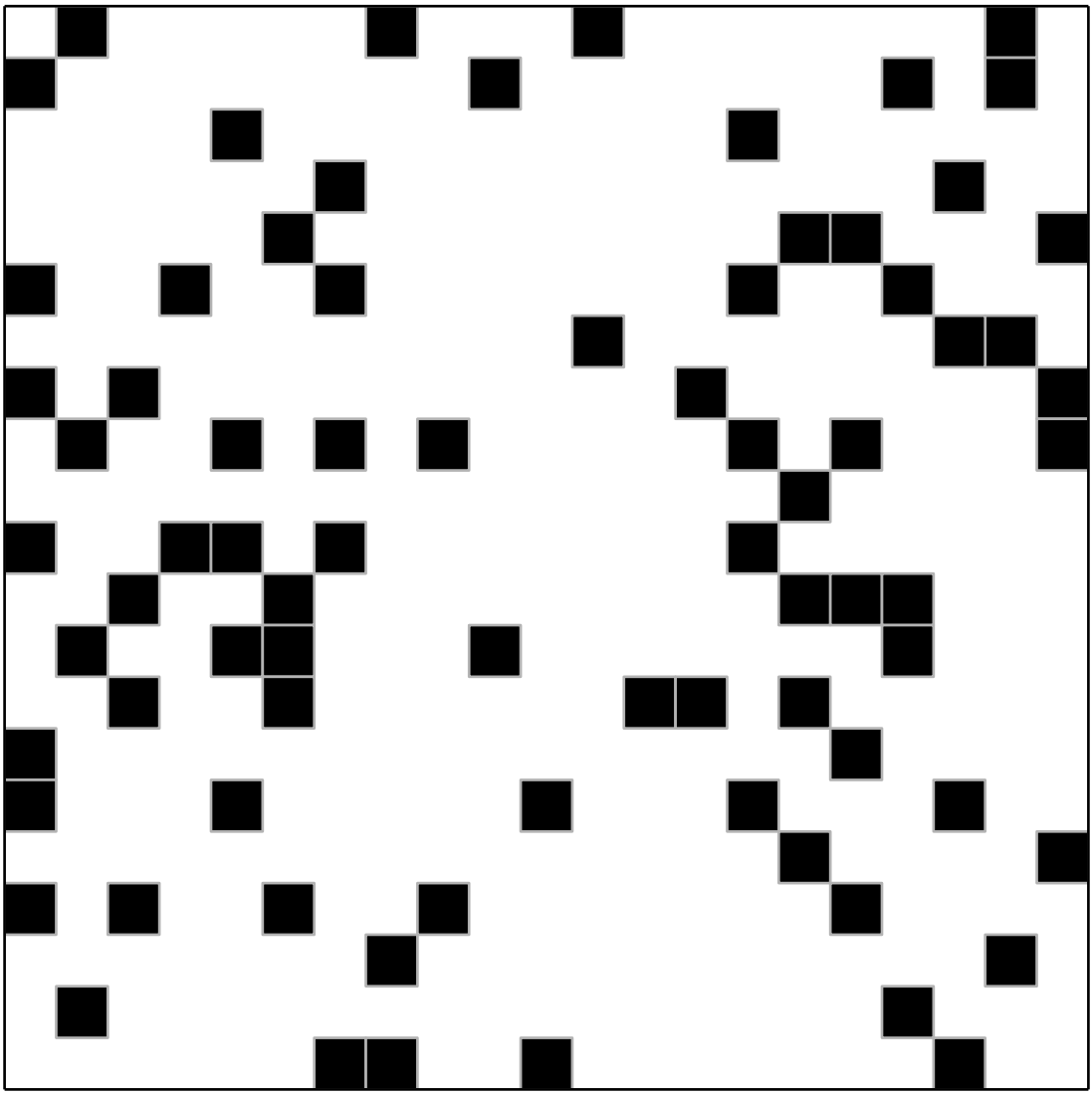

lib1_alkyl-07 21x21 (78) con: 7, var: 14


lib1_alkyl-07, cost: 3, diff: 3, explored: 24, time: 0.01s


lib1_alkyl-08 21x21 (78) con: 7, var: 14


lib1_alkyl-08, cost: 3, diff: 3, explored: 24, time: 0.01s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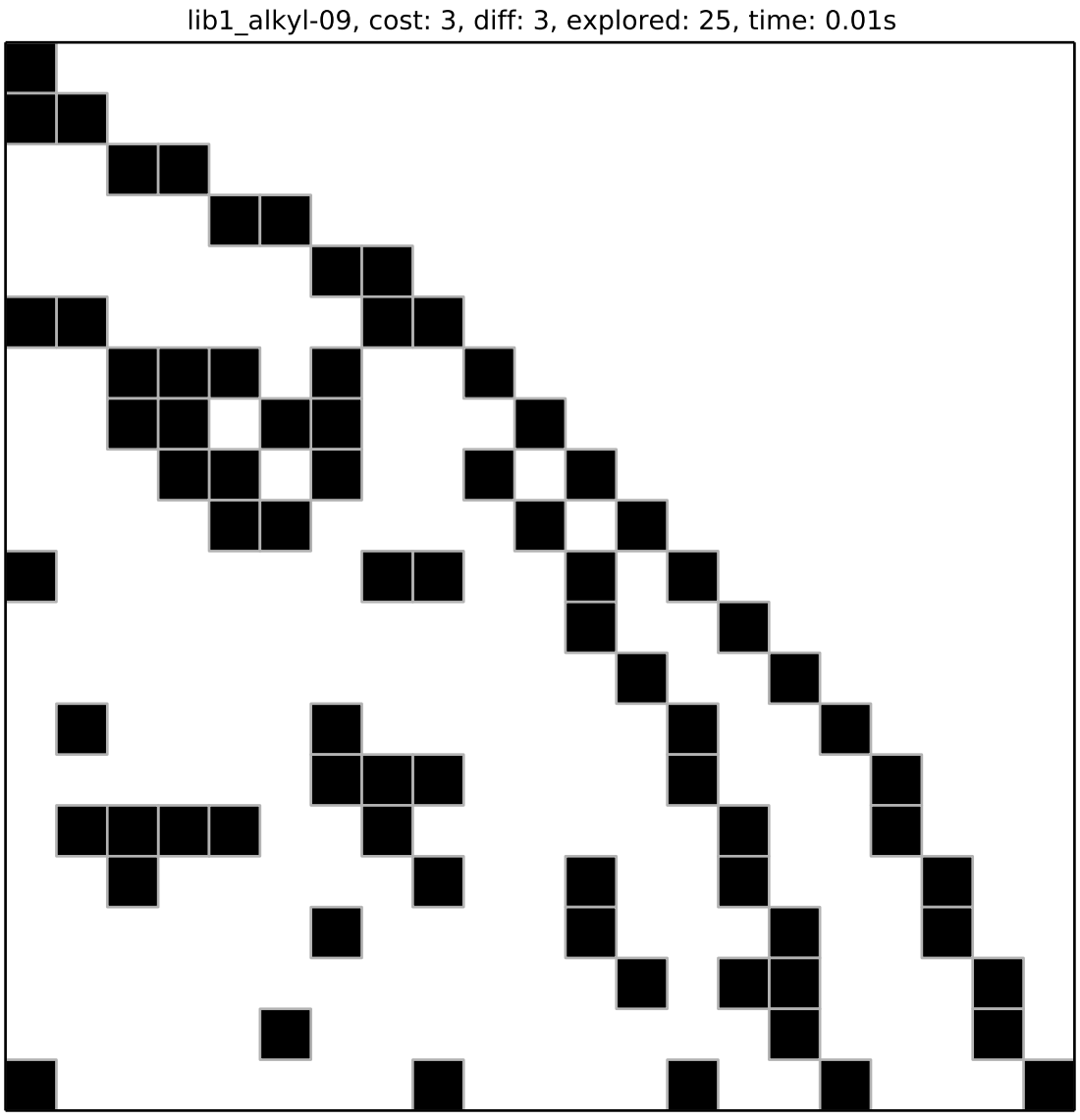
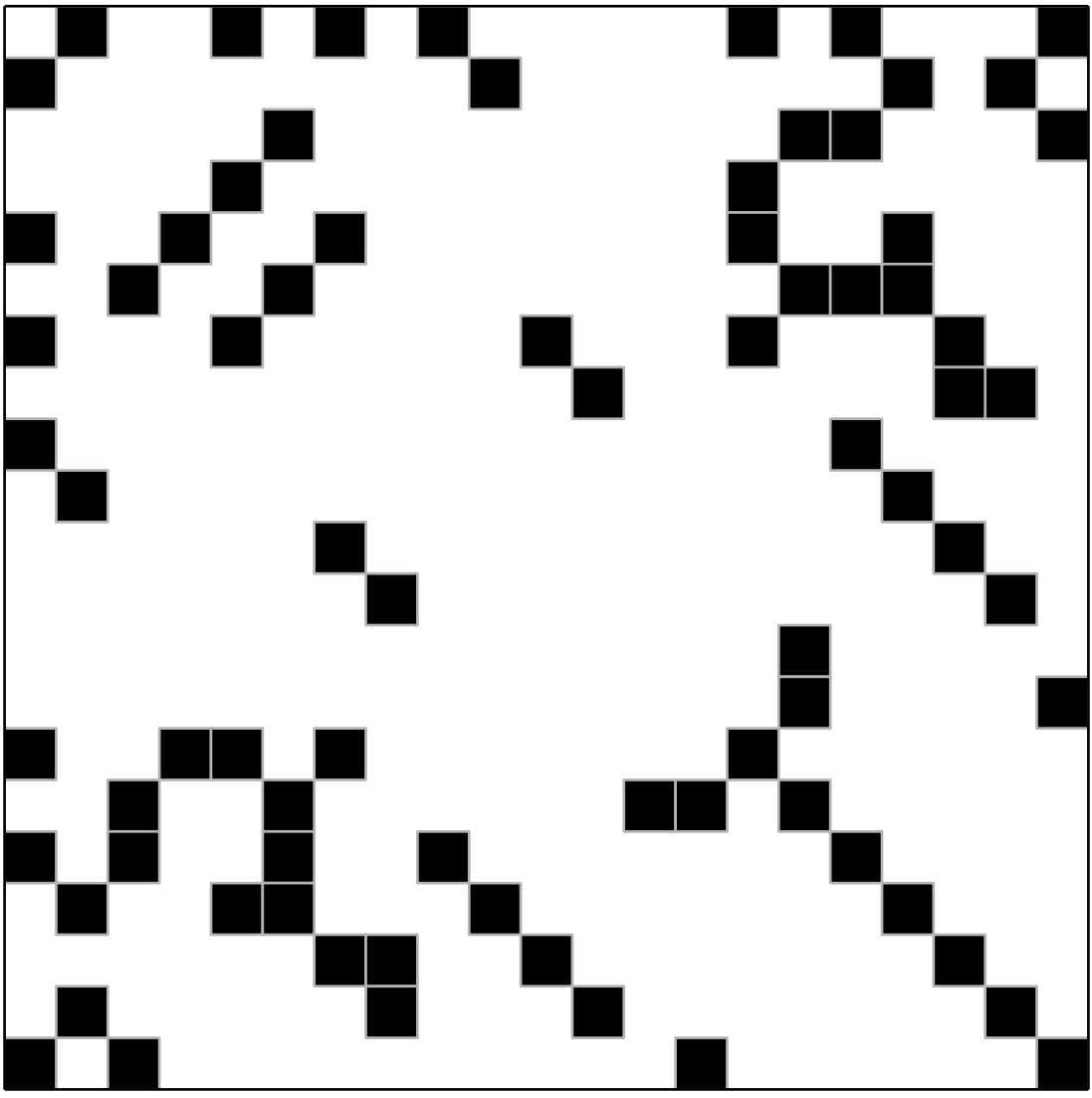
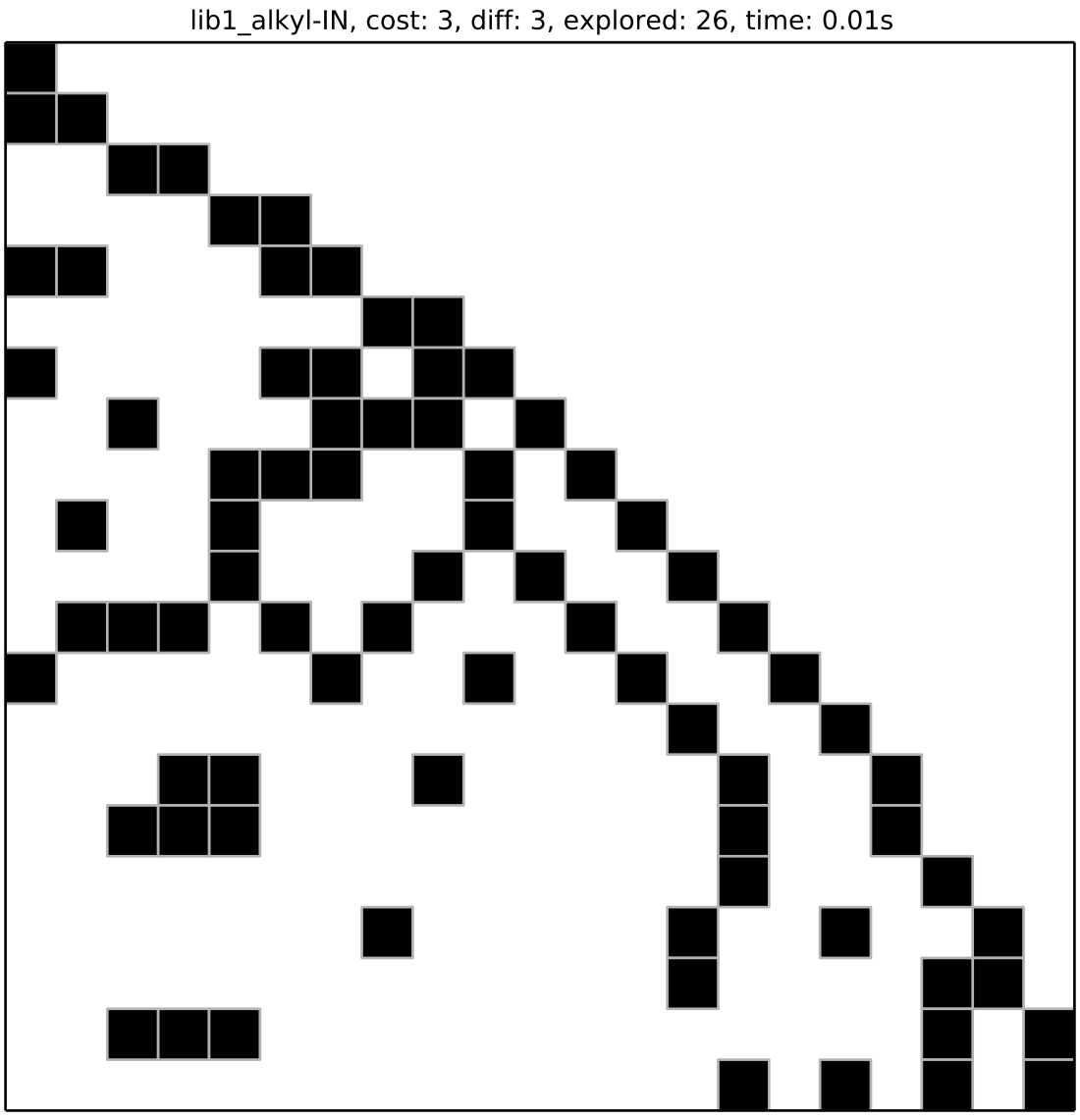
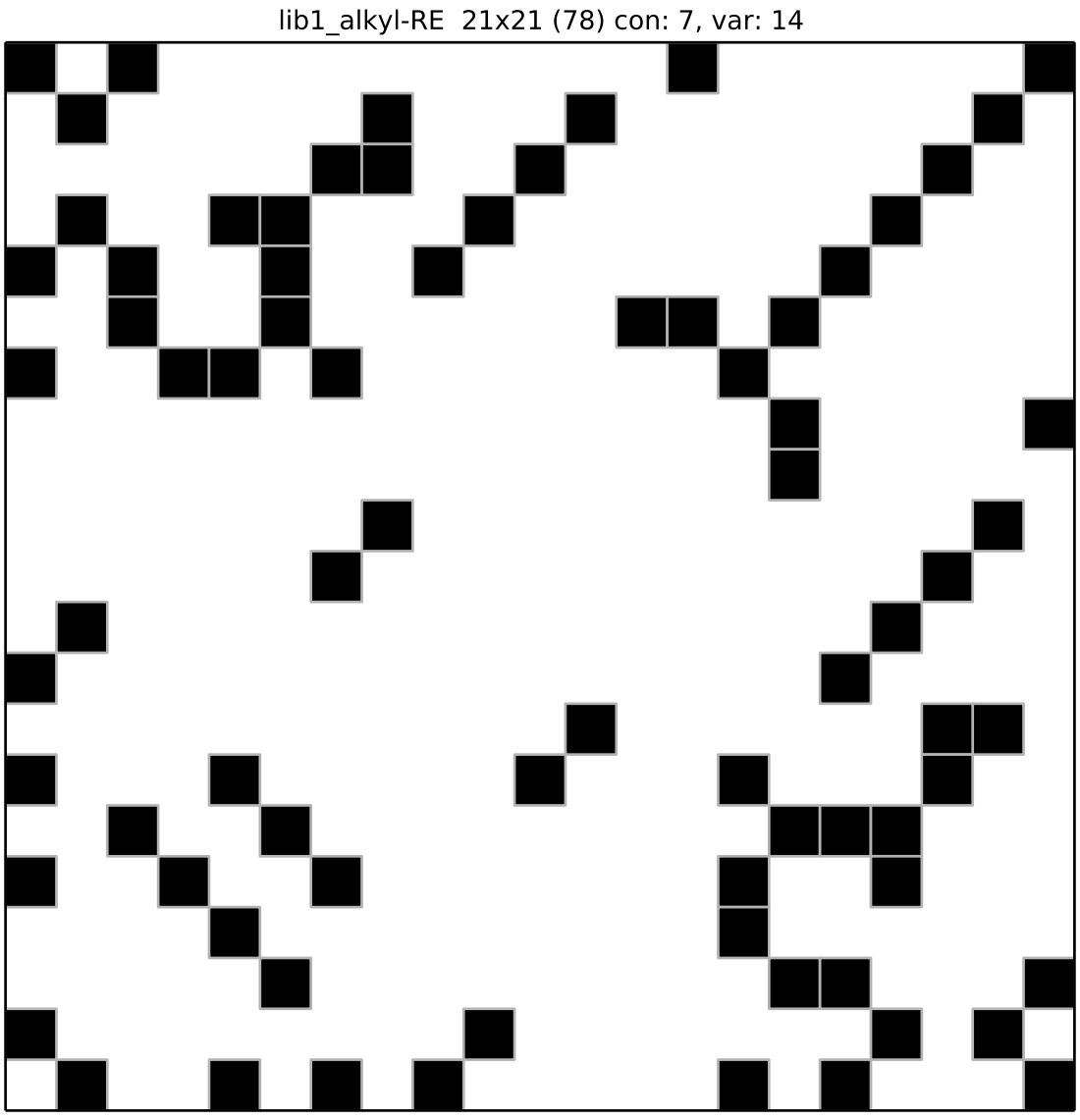
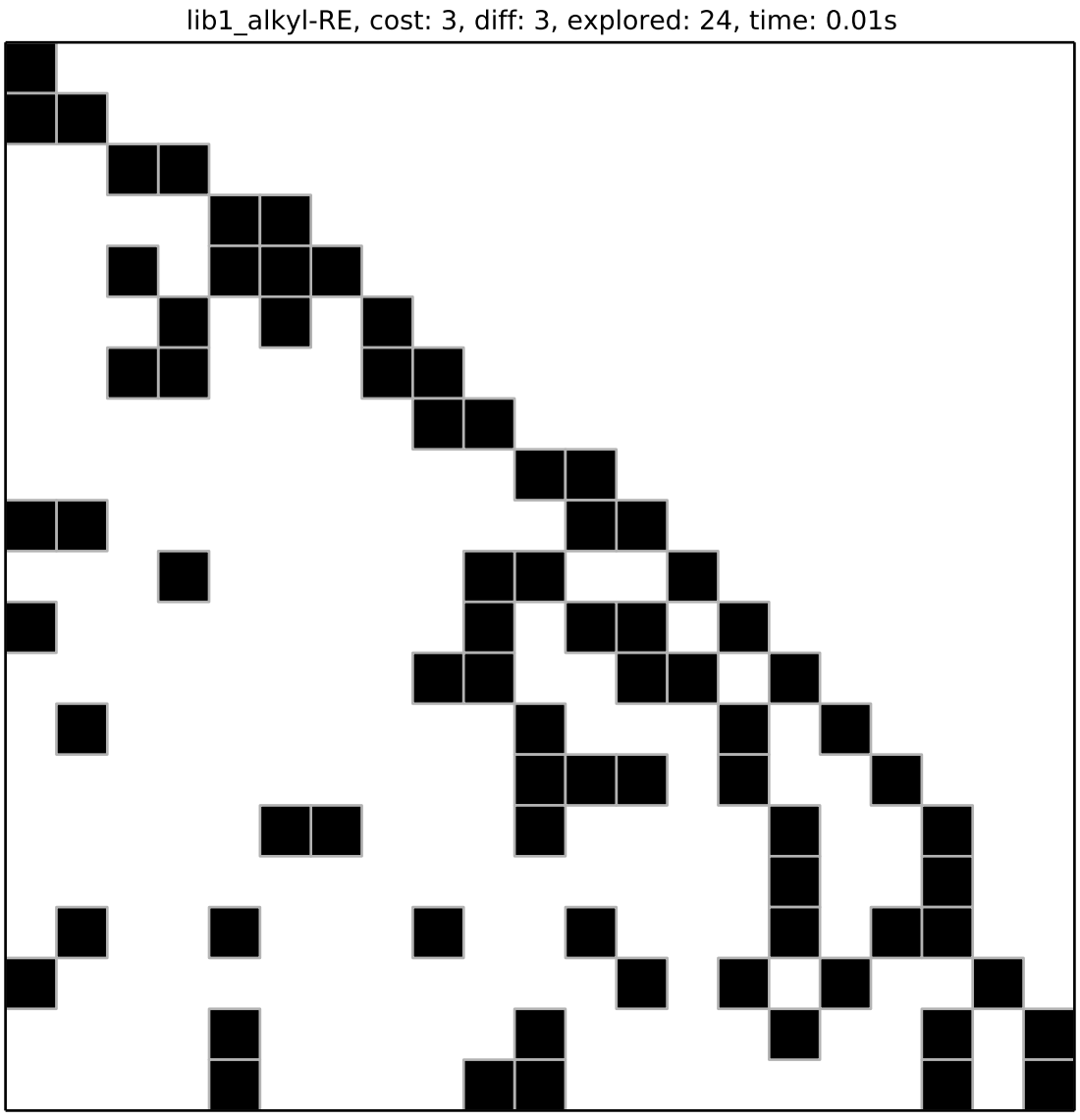

lib1_alkyl-09, cost: 3, diff: 3, explored: 25, time: 0.01s

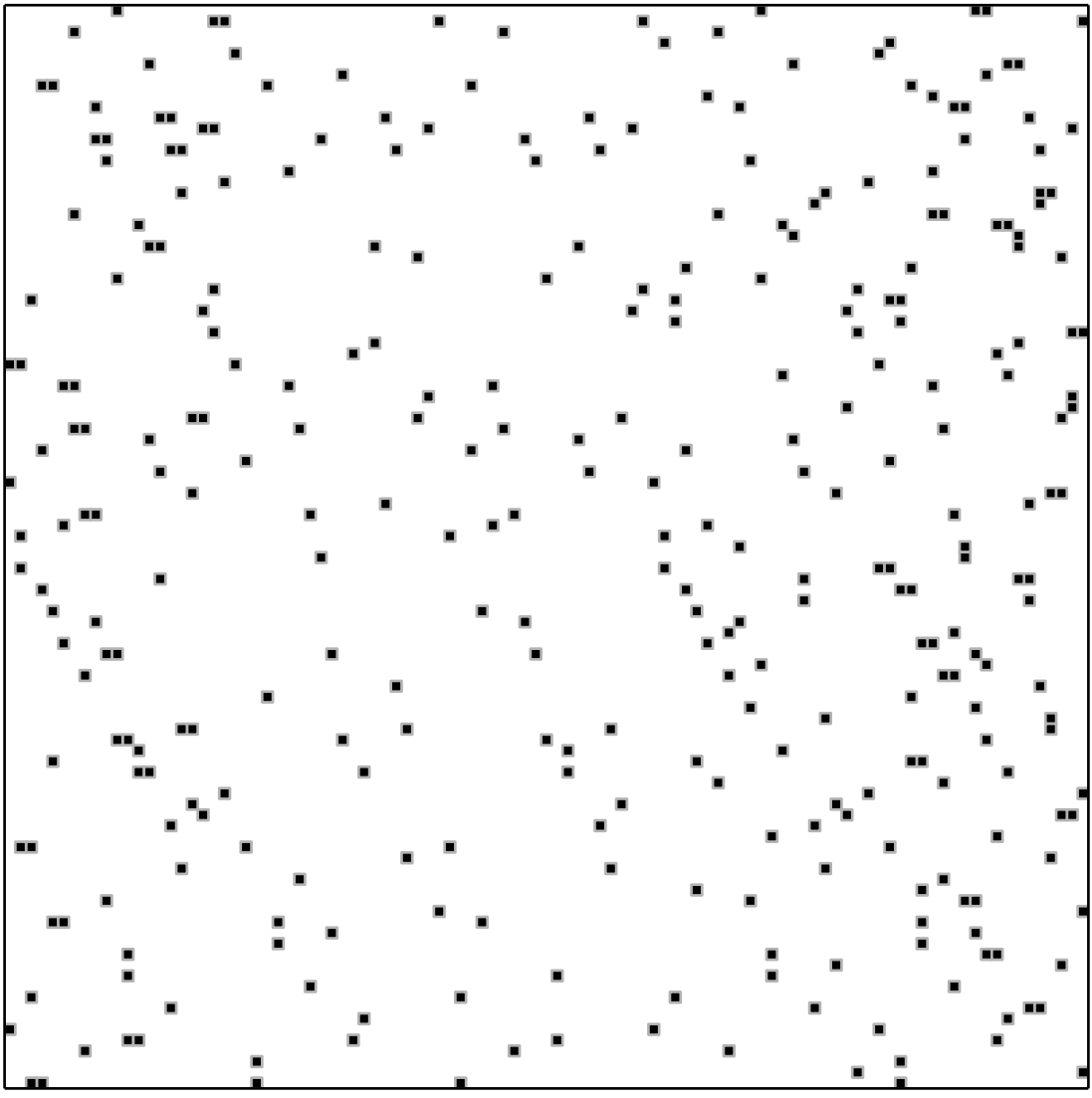

lib1_alkyl-IN 21x21 (78) con: 7, var: 14

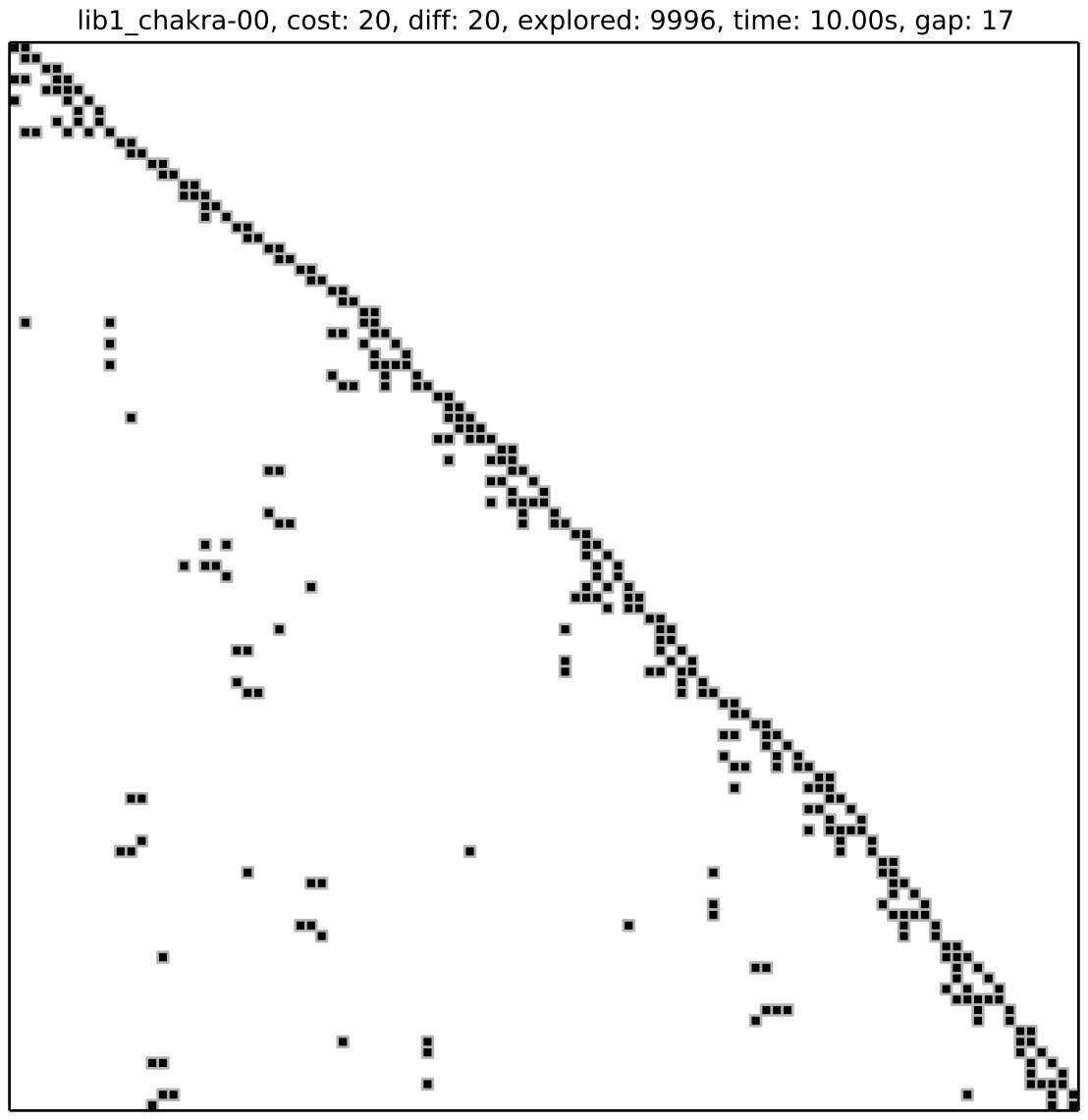

lib1_alkyl-IN, cost: 3, diff: 3, explored: 26, time: 0.01s


lib1_alkyl-RE 21x21 (78) con: 7, var: 14

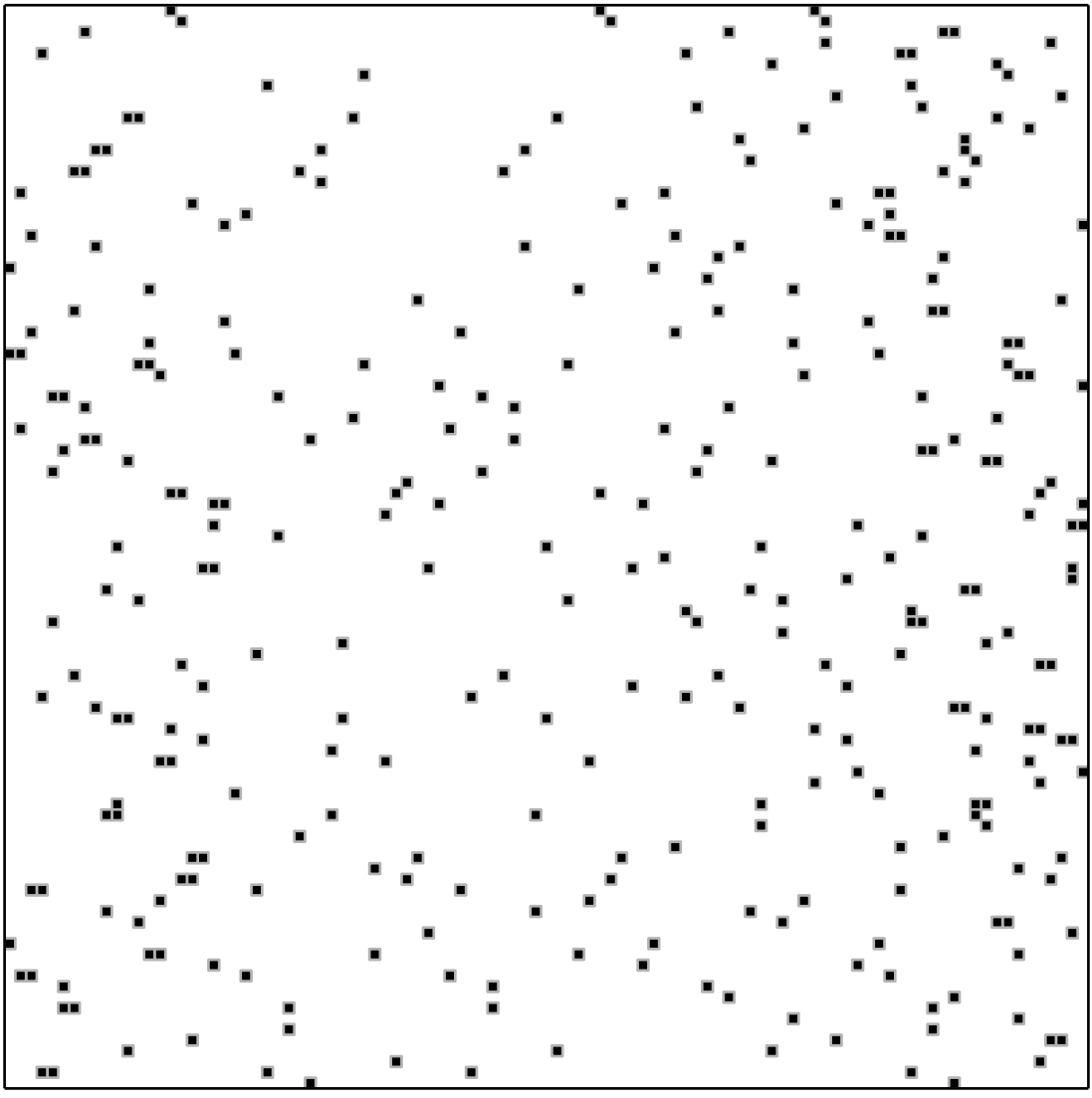

lib1_alkyl-RE, cost: 3, diff: 3, explored: 24, time: 0.01s

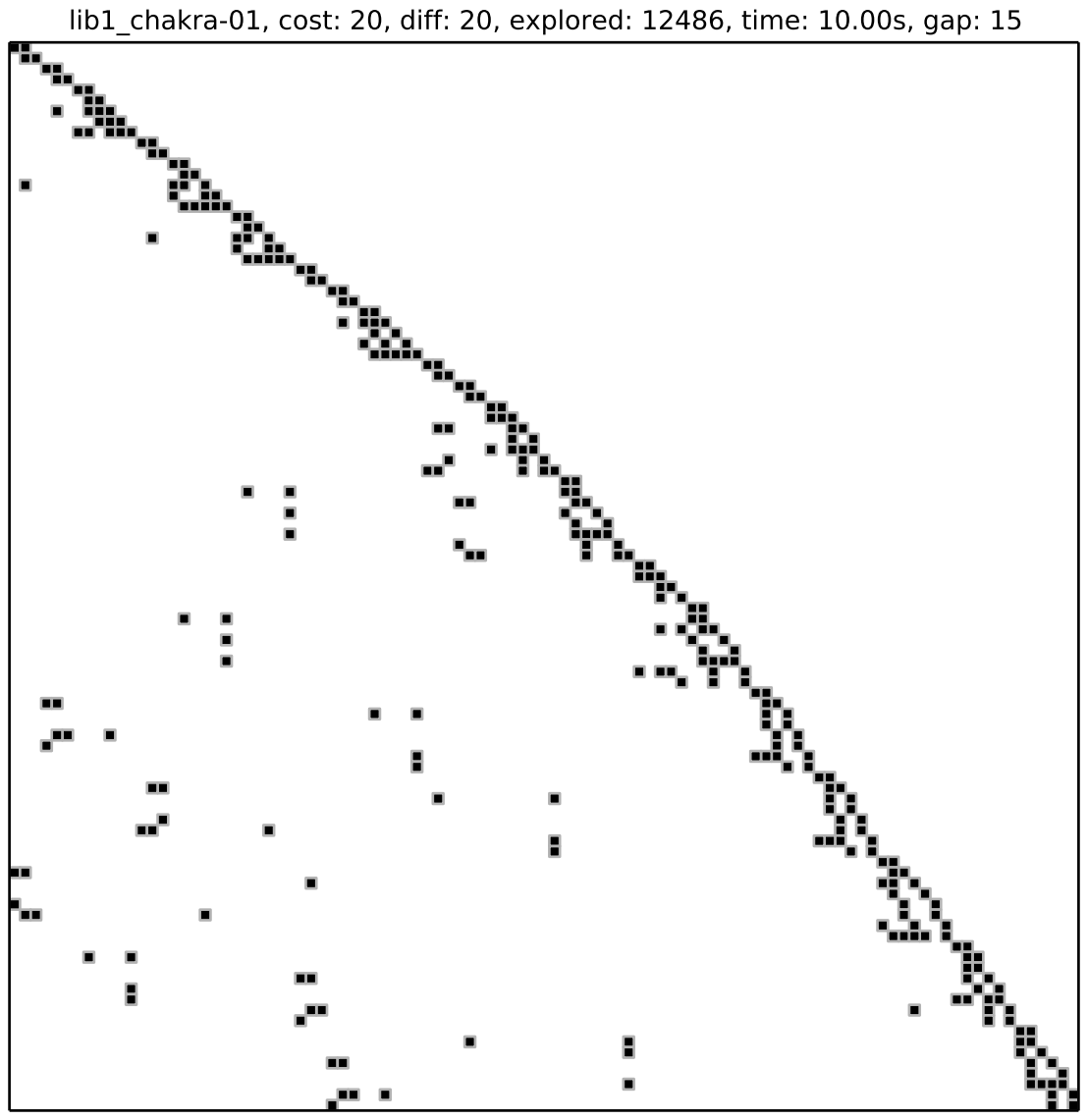
lib1_chakra-00 101x101 (320) con: 41, var: 60



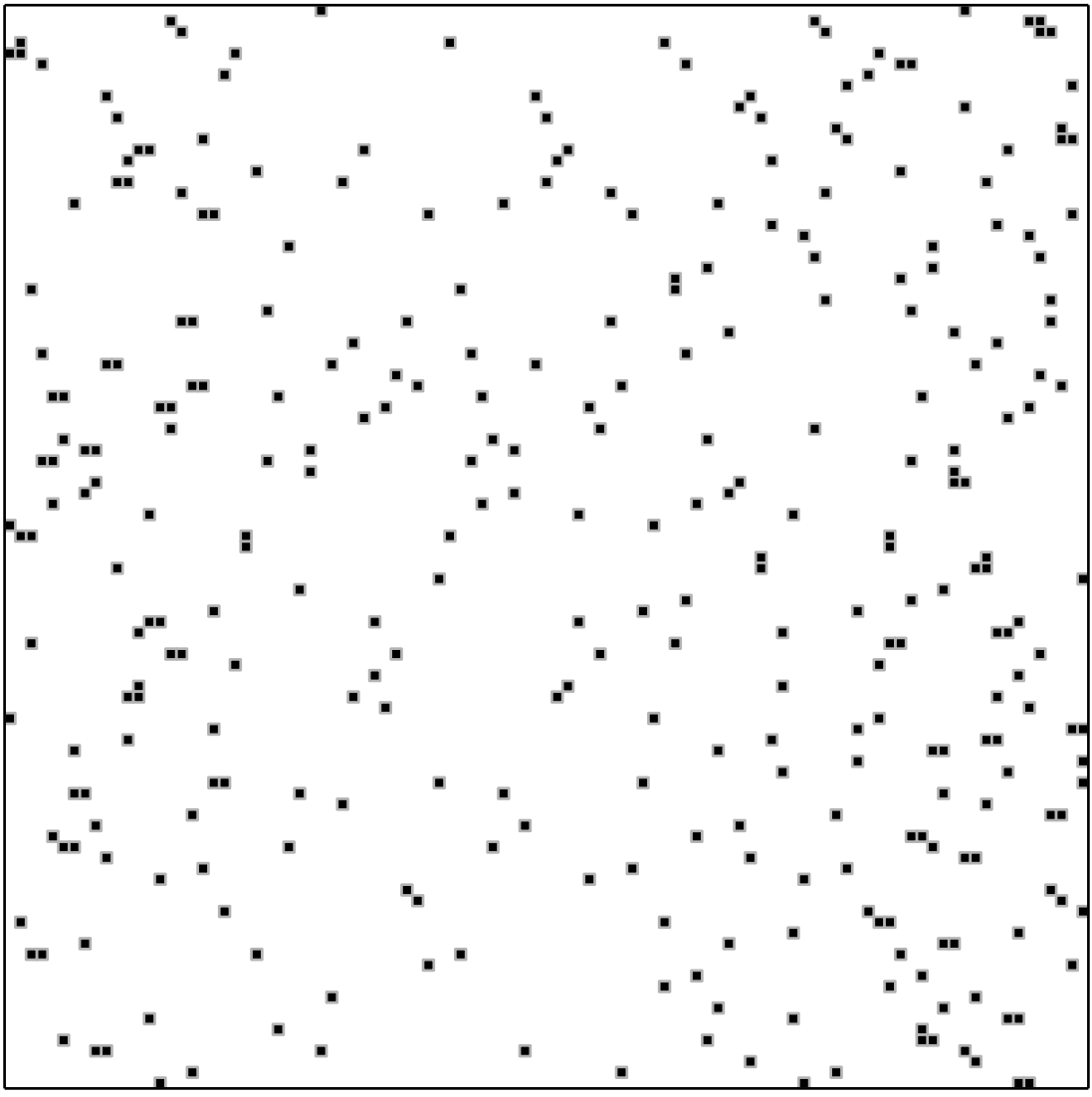

lib1_chakra-00, cost: 20, diff: 20, explored: 9996, time: 10.00s, gap: 17

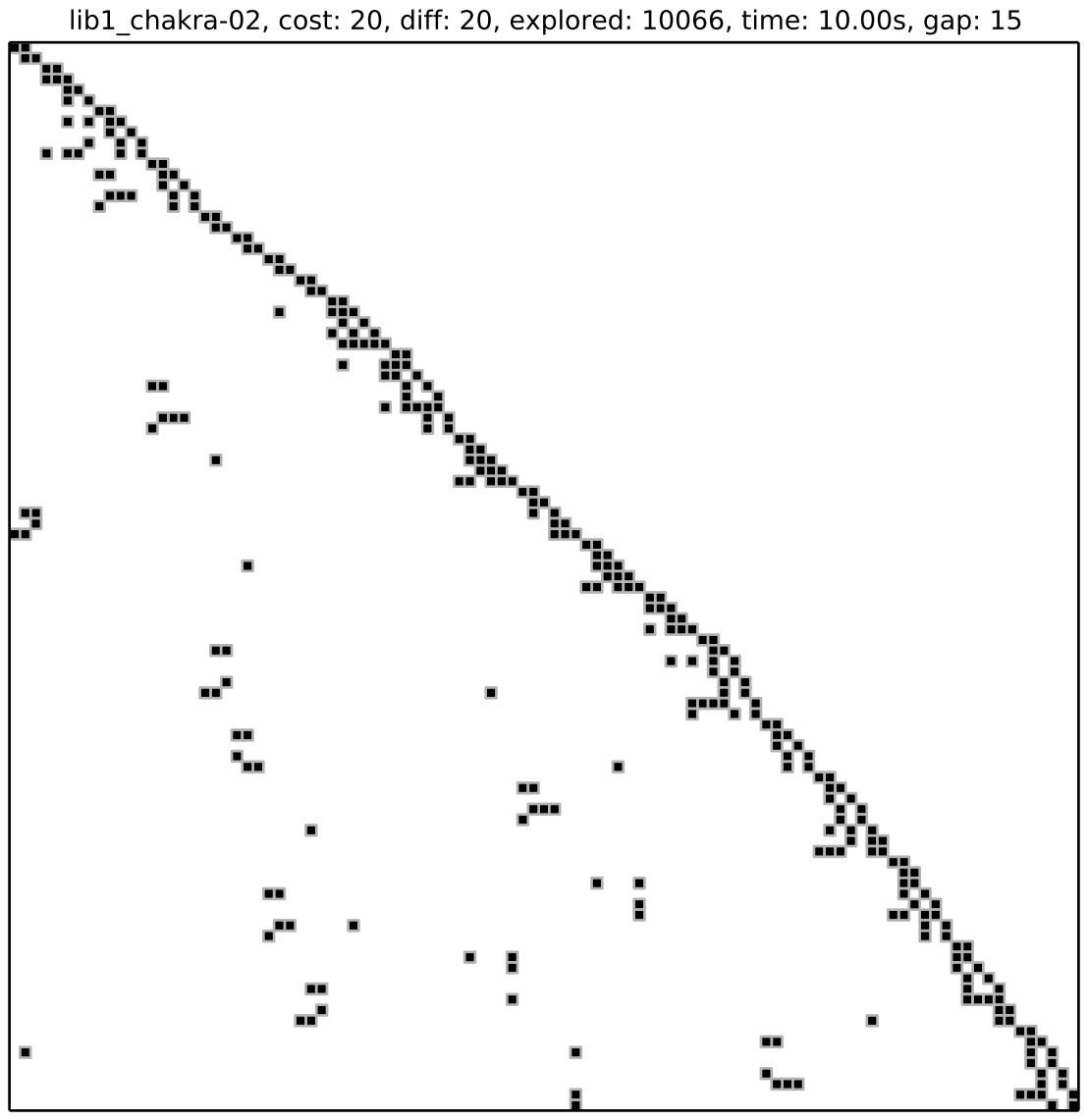
lib1_chakra-01 101x101 (320) con: 41, var: 60



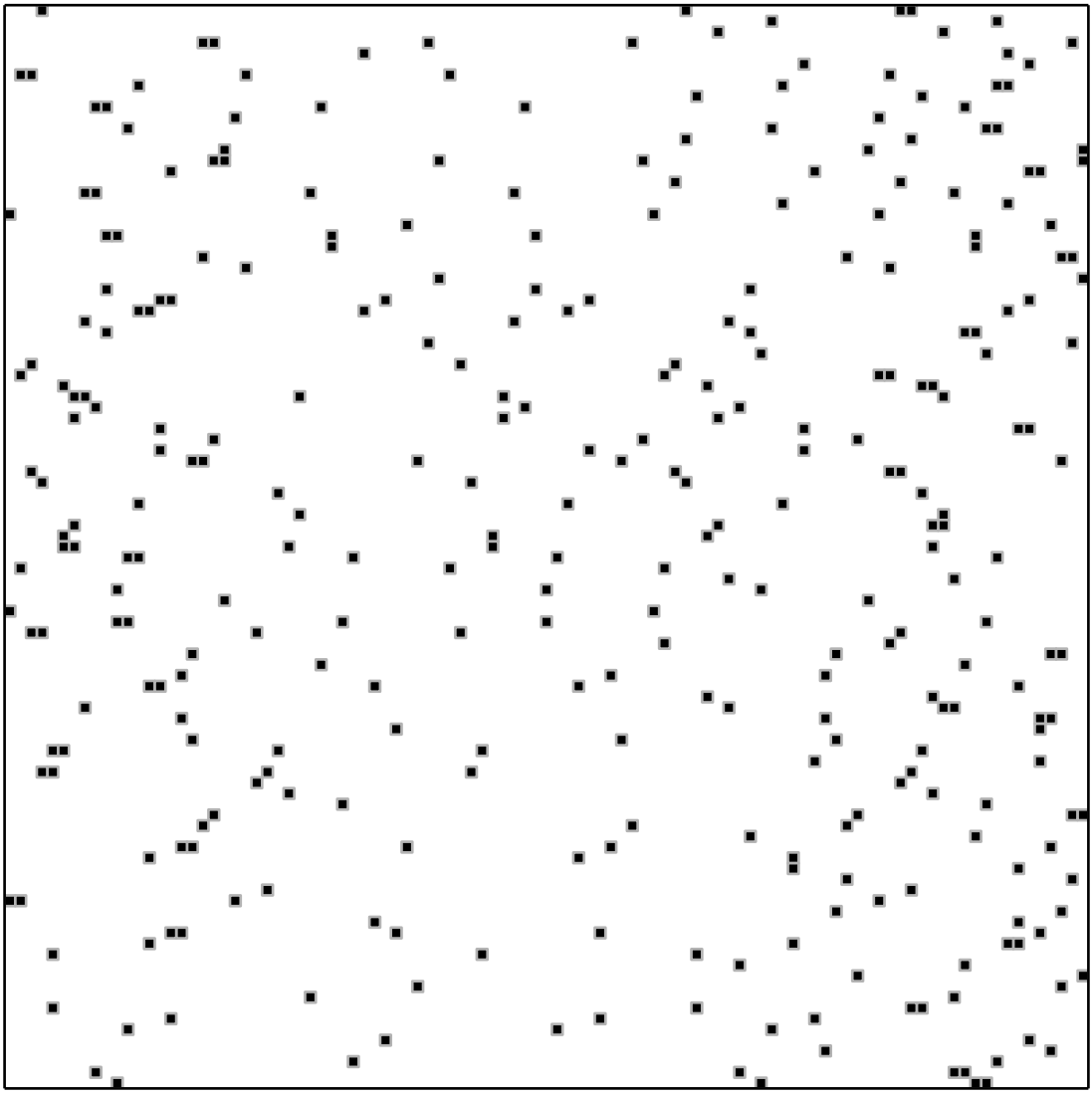

lib1_chakra-01, cost: 20, diff: 20, explored: 12486, time: 10.00s, gap: 15

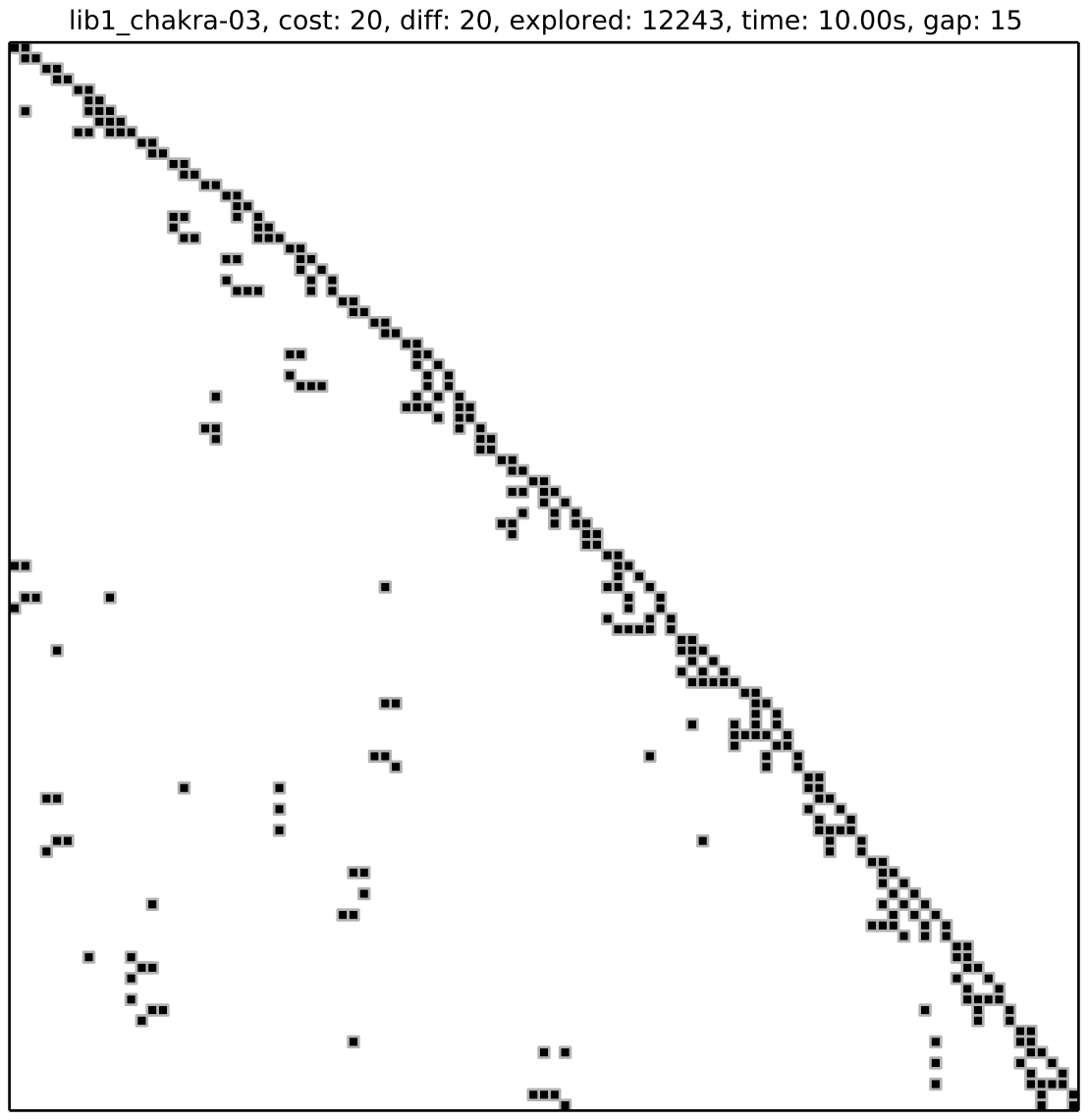
lib1_chakra-02 101x101 (320) con: 41, var: 60



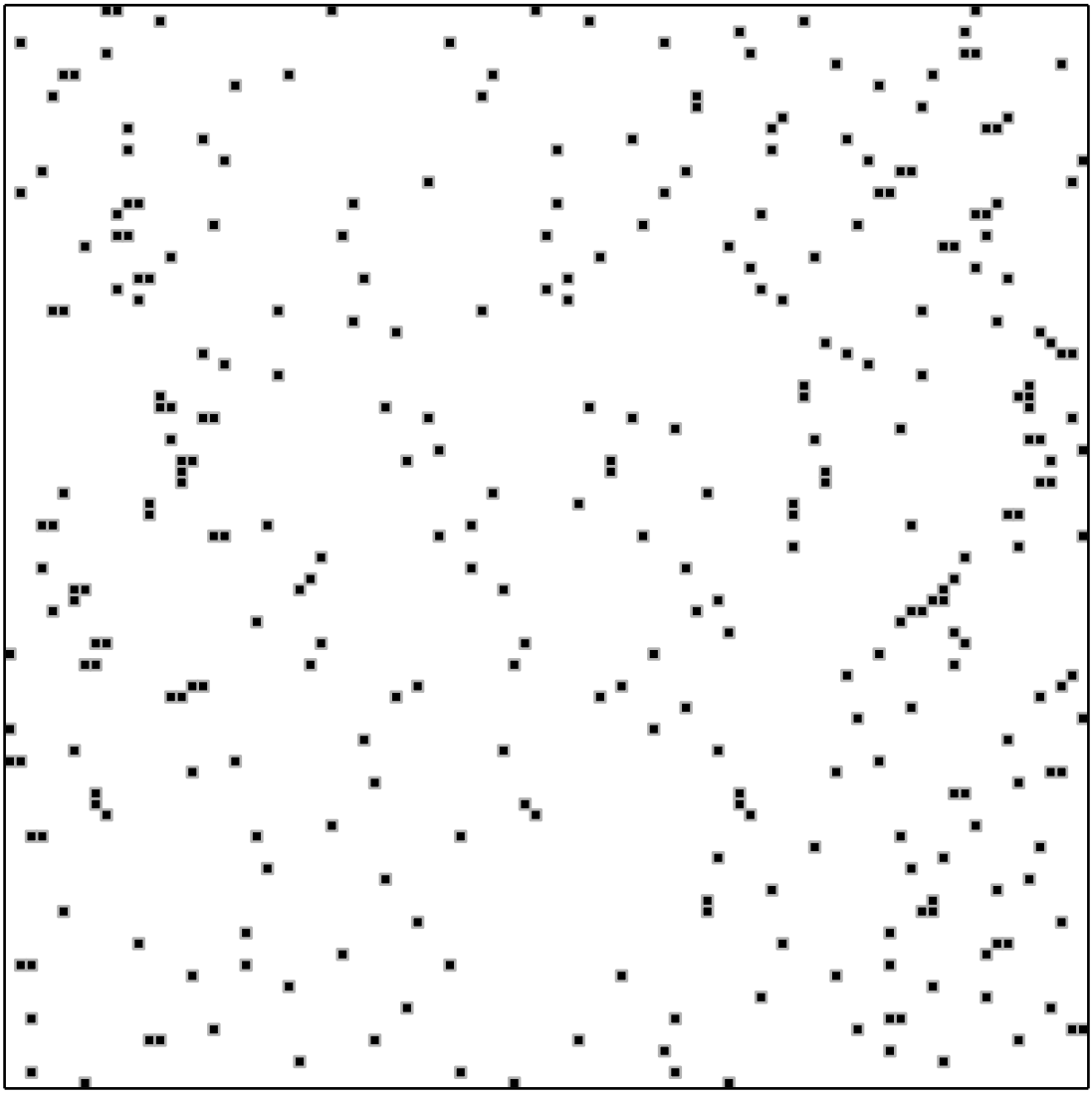

lib1_chakra-02, cost: 20, diff: 20, explored: 10066, time: 10.00s, gap: 15

lib1_chakra-03 101x101 (320) con: 41, var: 60

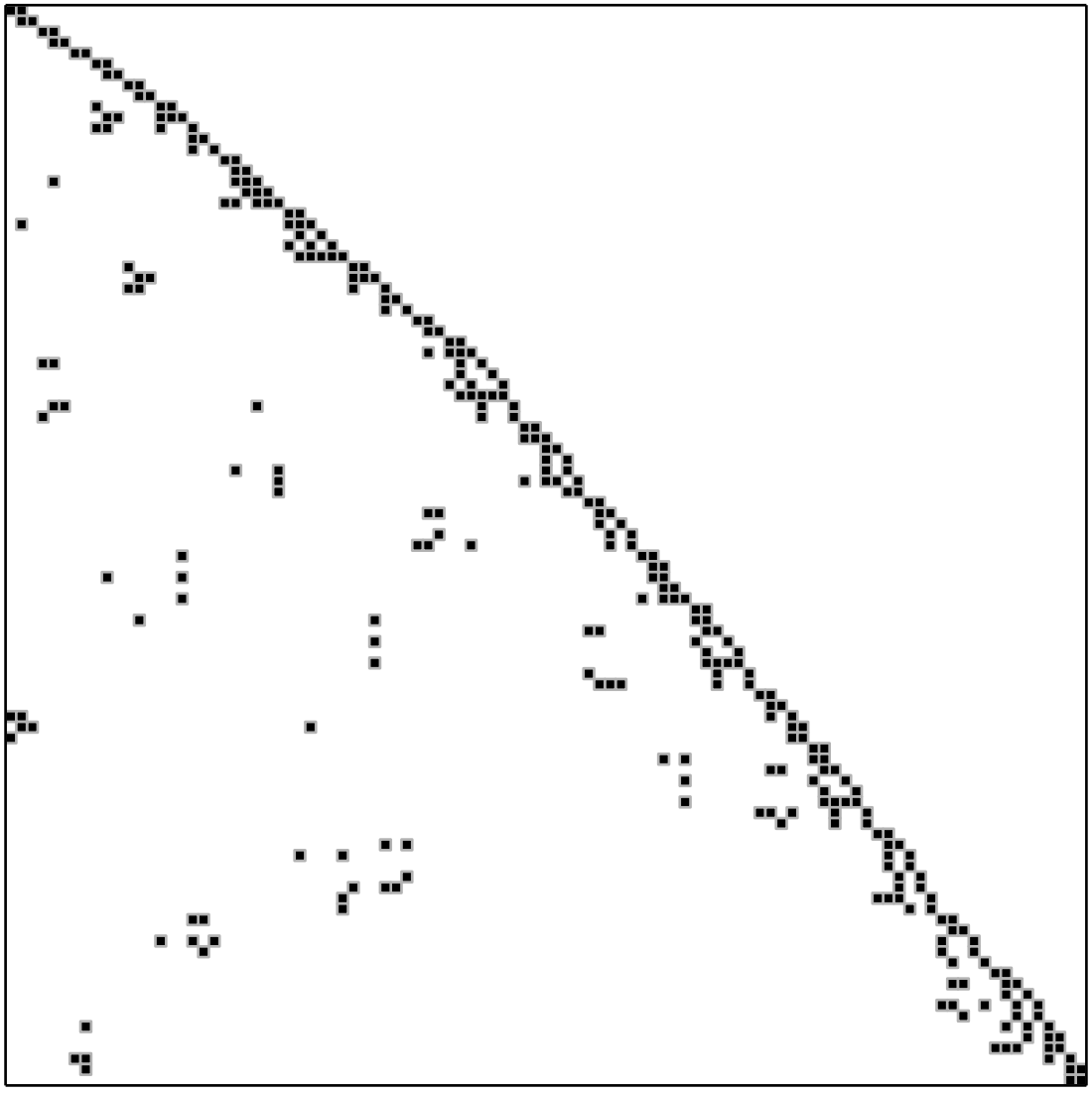



lib1_chakra-03, cost: 20, diff: 20, explored: 12243, time: 10.00s, gap: 15

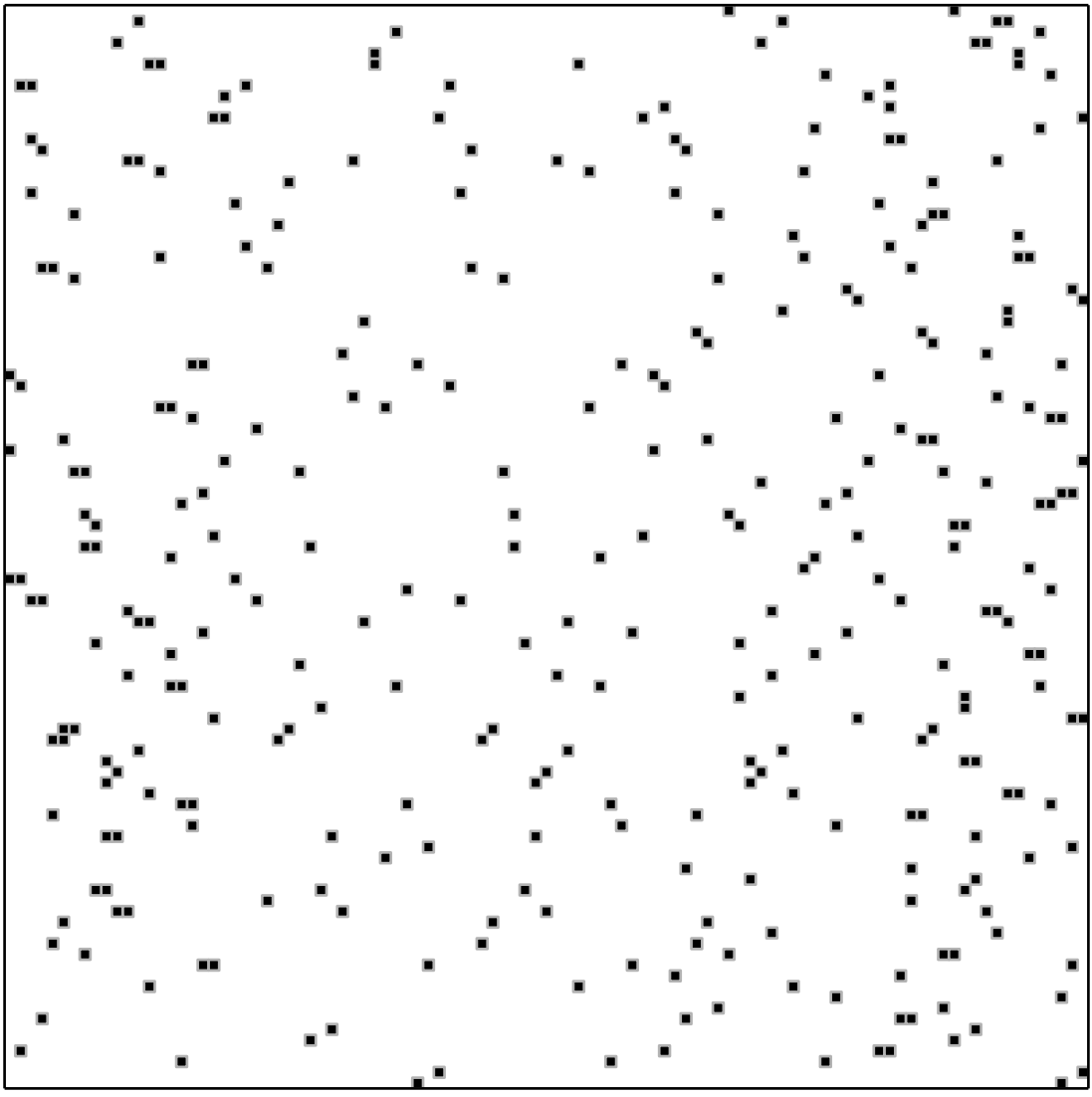
lib1_chakra-04 101x101 (320) con: 41, var: 60

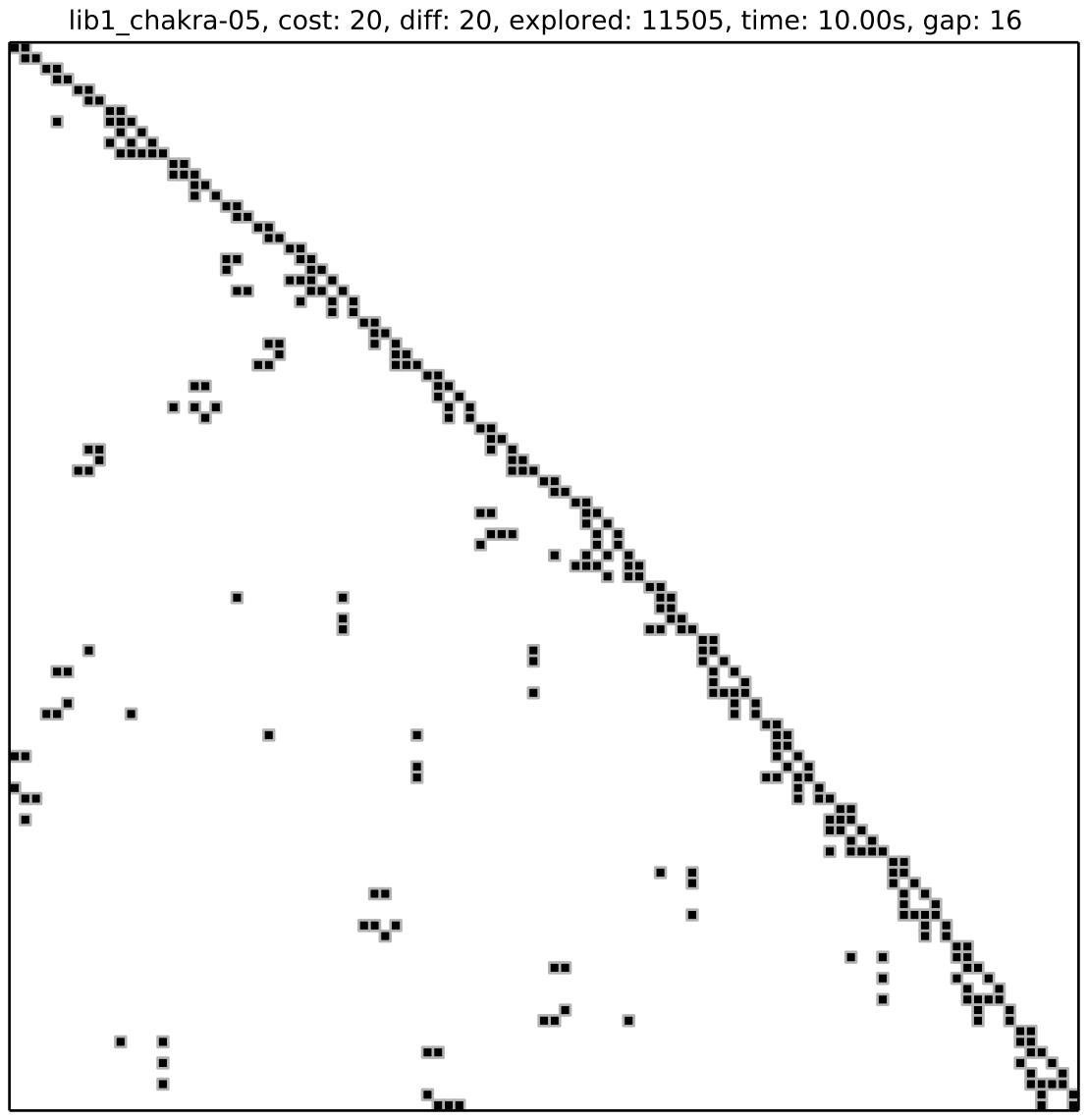


lib1_chakra-04, cost: 20, diff: 20, explored: 11092, time: 10.00s, gap: 15

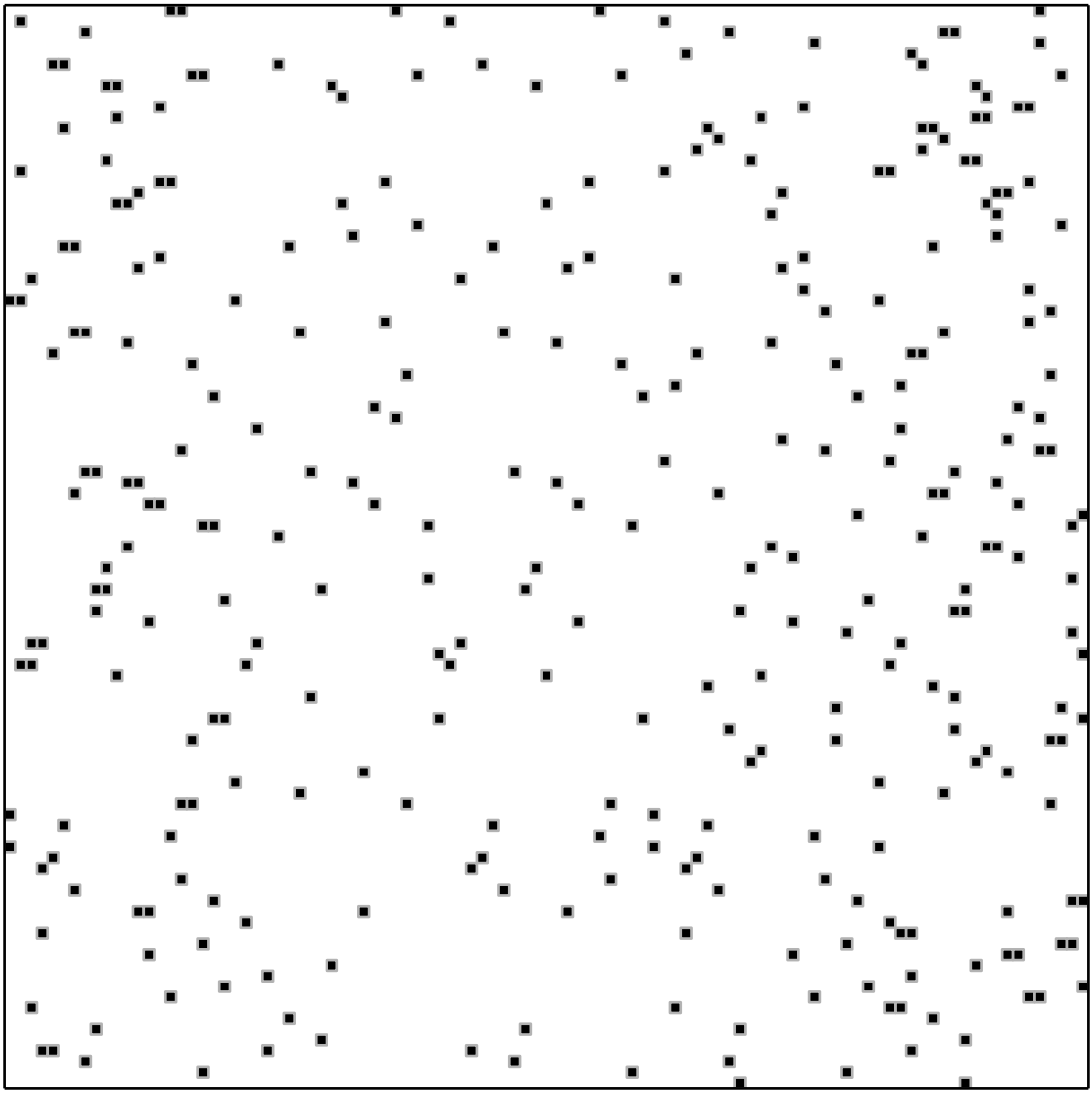


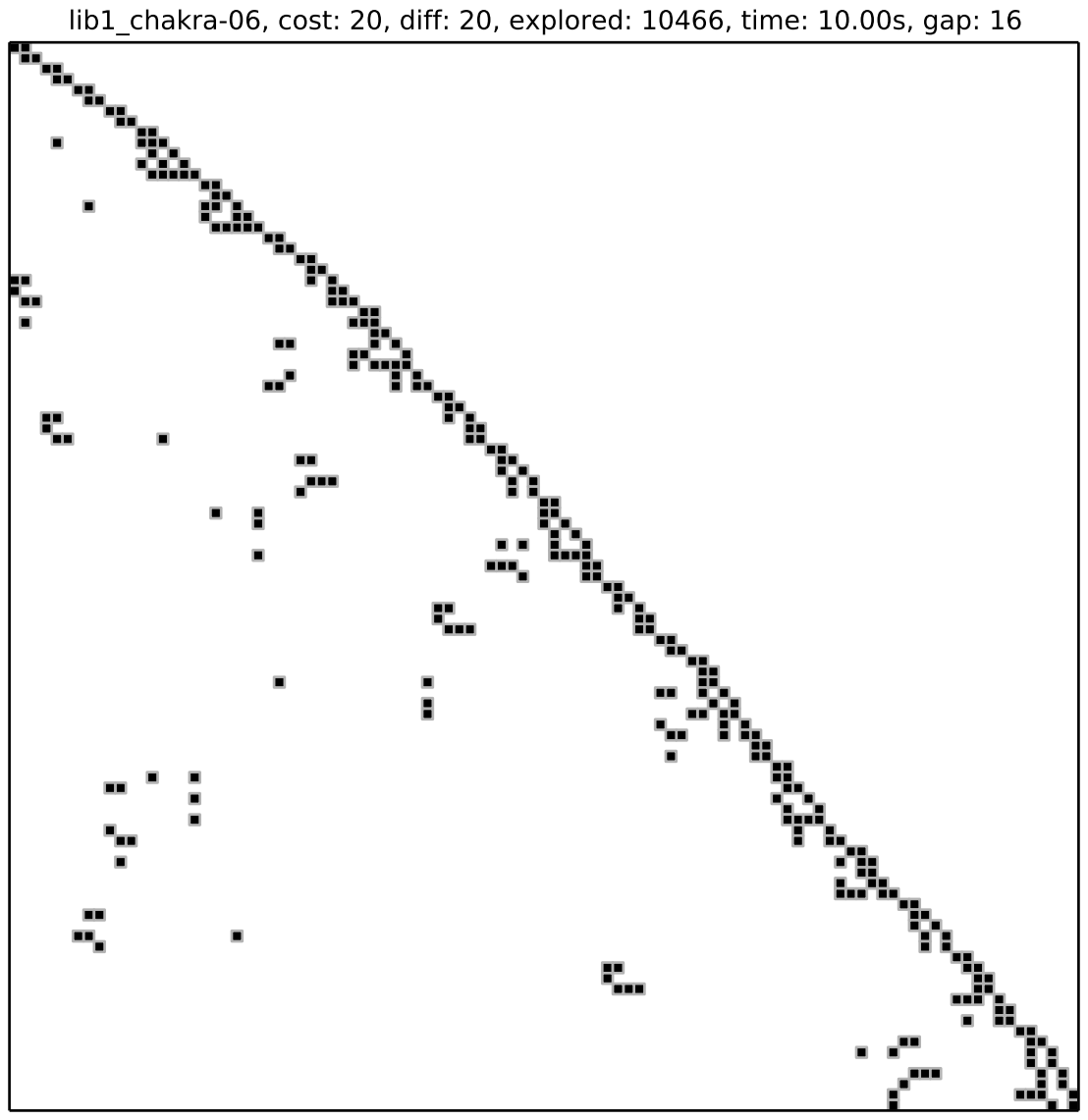
lib1_chakra-05 101x101 (320) con: 41, var: 60



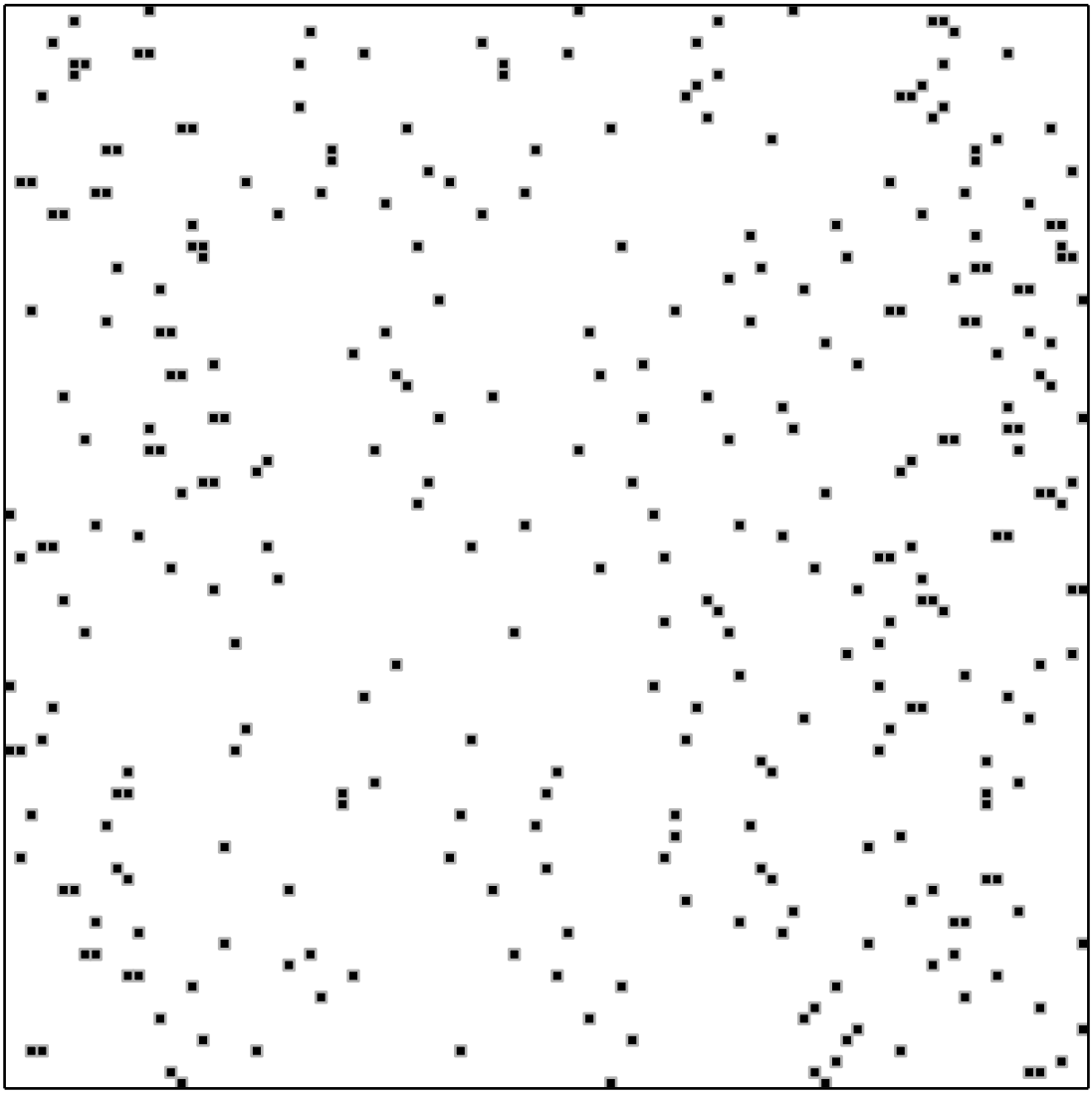

lib1_chakra-05, cost: 20, diff: 20, explored: 11505, time: 10.00s, gap: 16

lib1_chakra-06 101x101 (320) con: 41, var: 60




lib1_chakra-06, cost: 20, diff: 20, explored: 10466, time: 10.00s, gap: 16

lib1_chakra-07 101x101 (320) con: 41, var: 60



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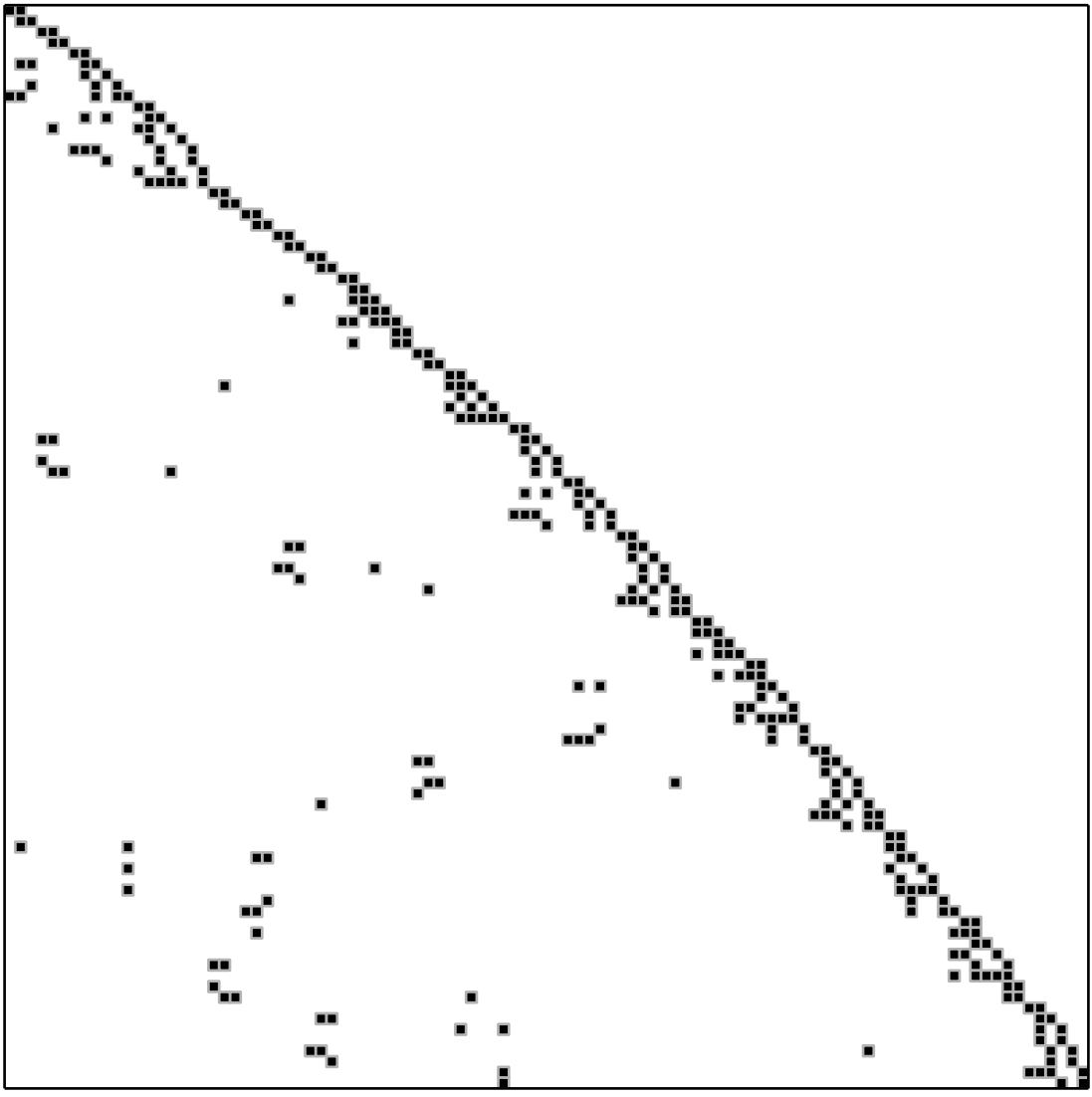
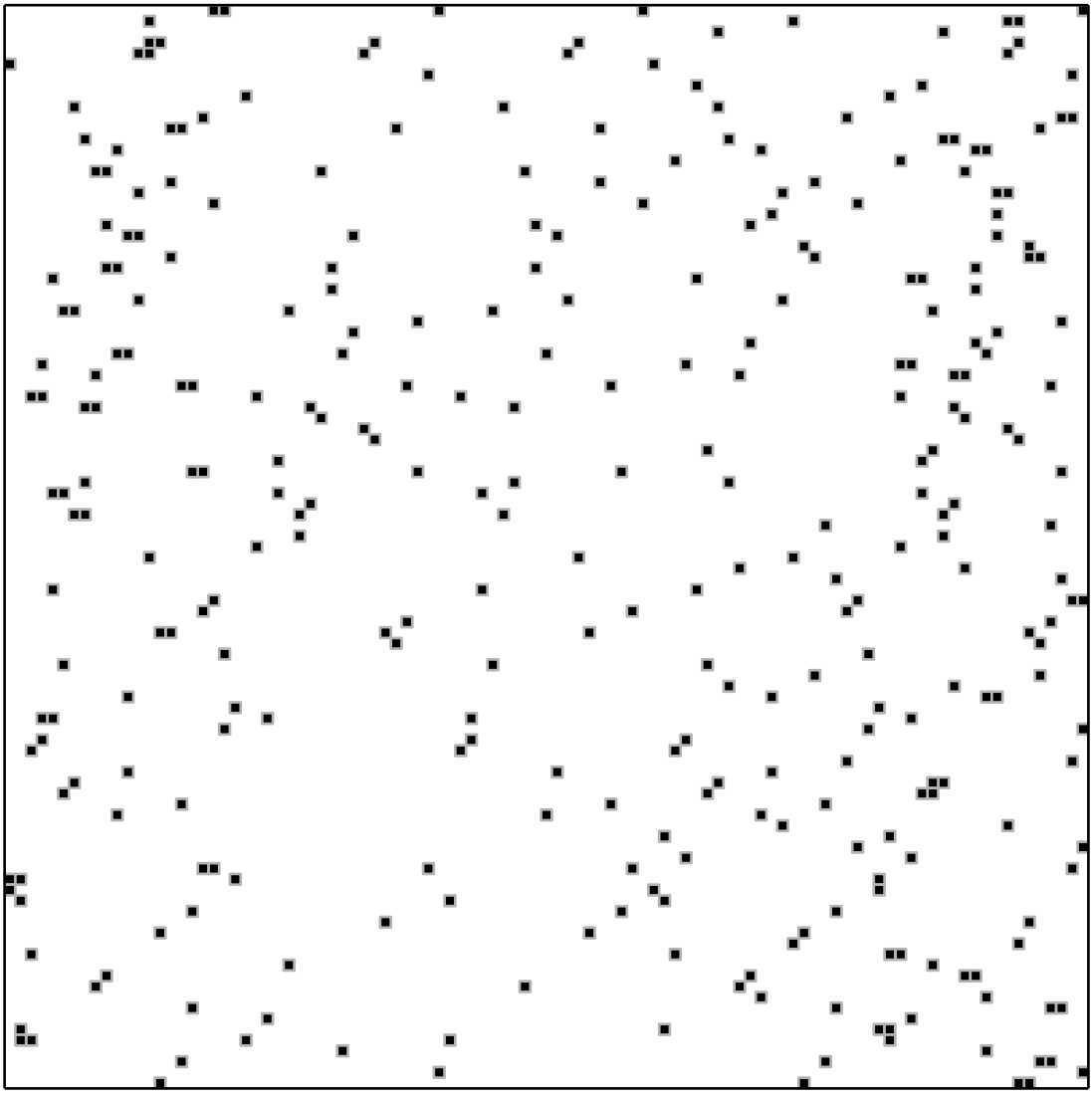
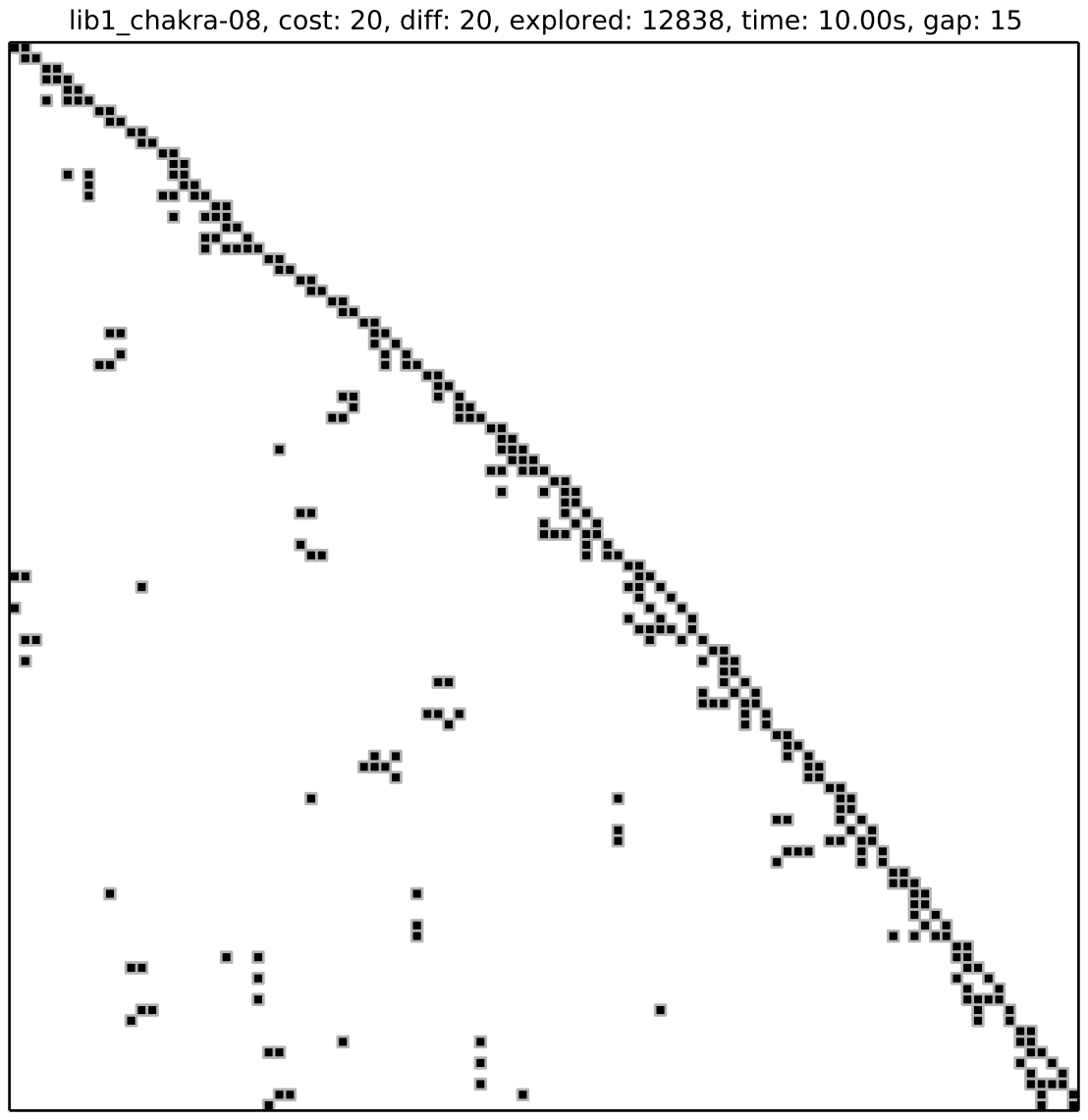
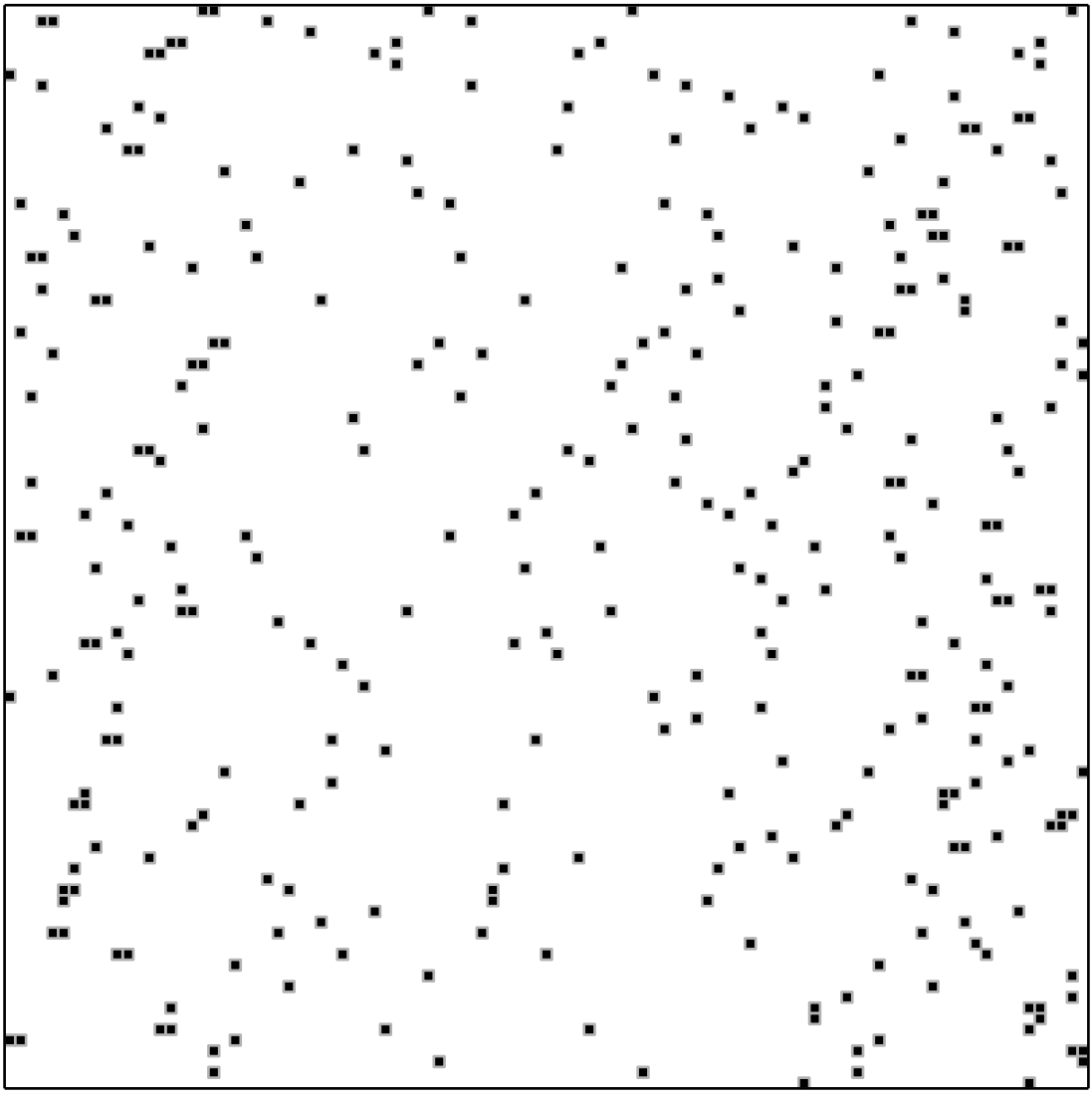


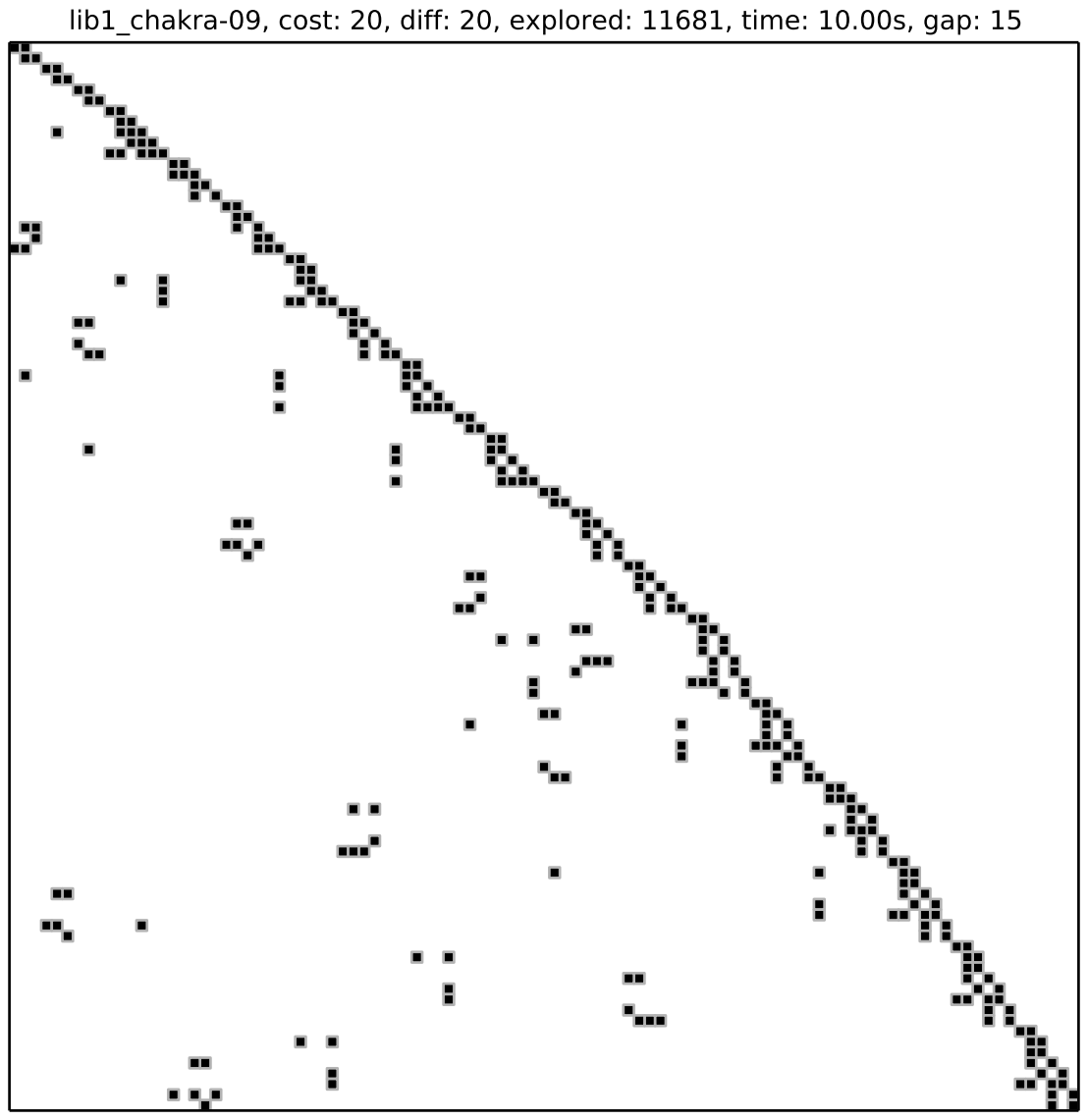
lib1_chakra-08 101x101 (320) con: 41, var: 60




lib1_chakra-08, cost: 20, diff: 20, explored: 12838, time: 10.00s, gap: 15

lib1_chakra-09 101x101 (320) con: 41, var: 60

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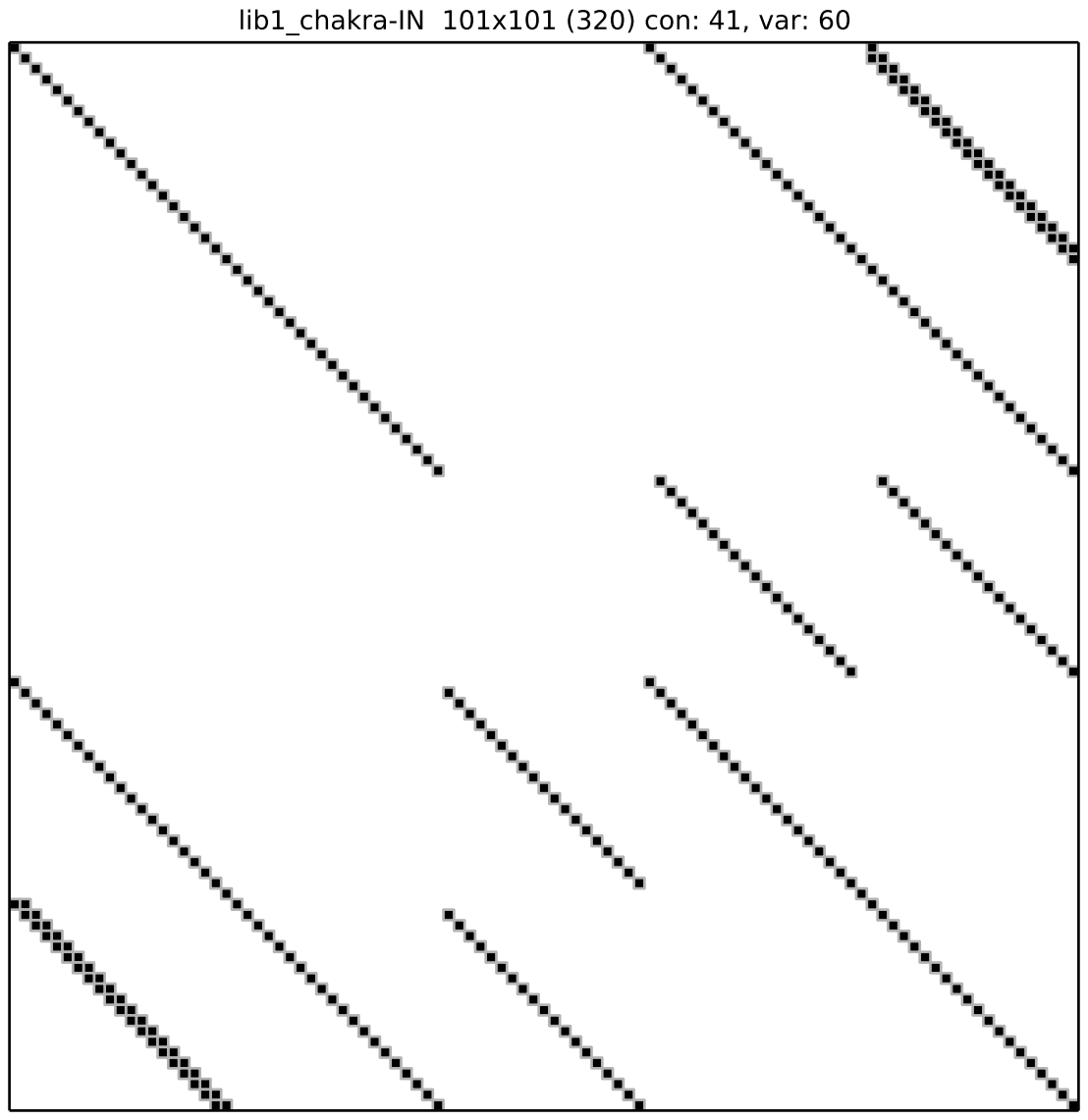
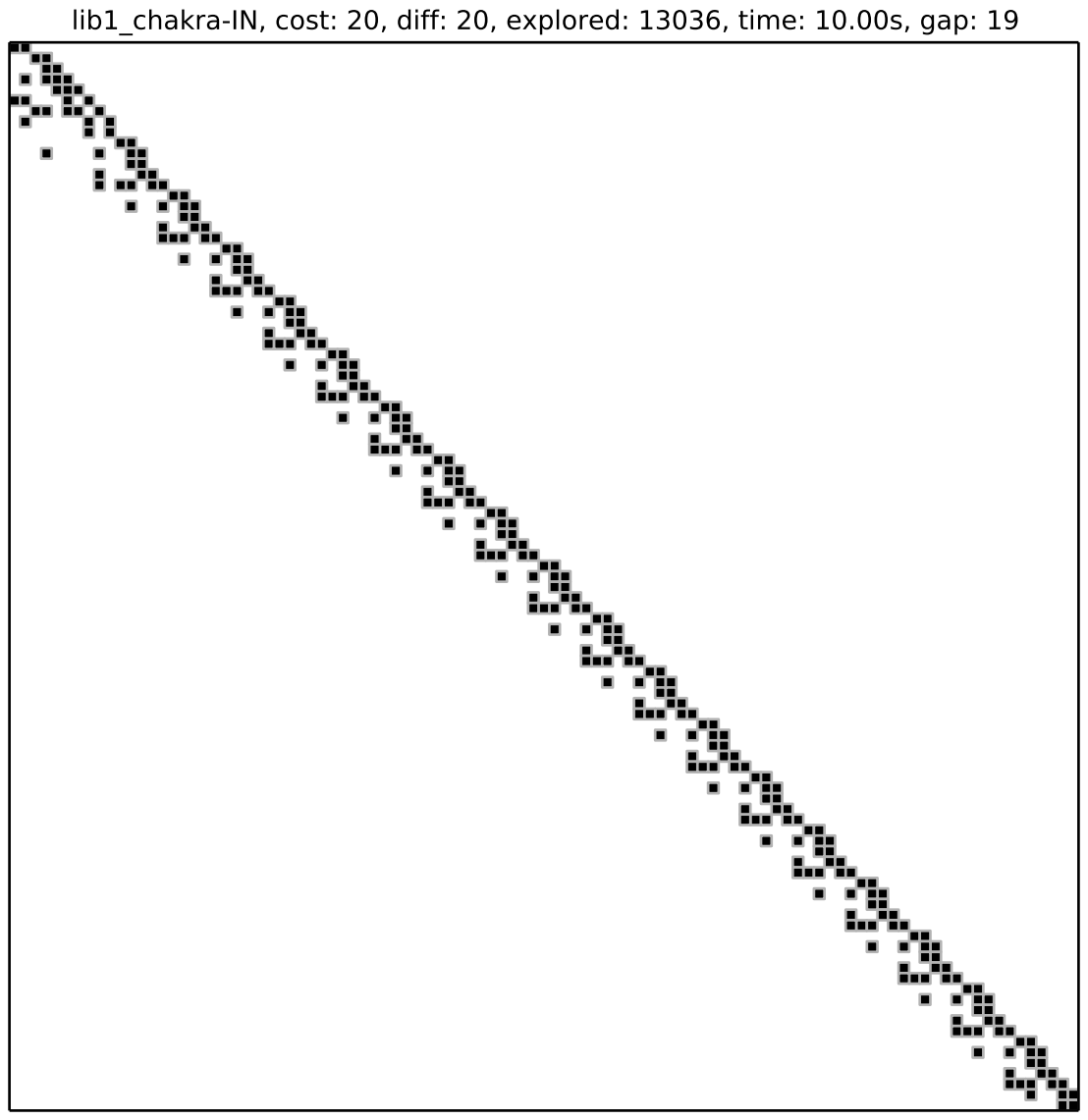

lib1_chakra-IN 101x101 (320) con: 41, var: 60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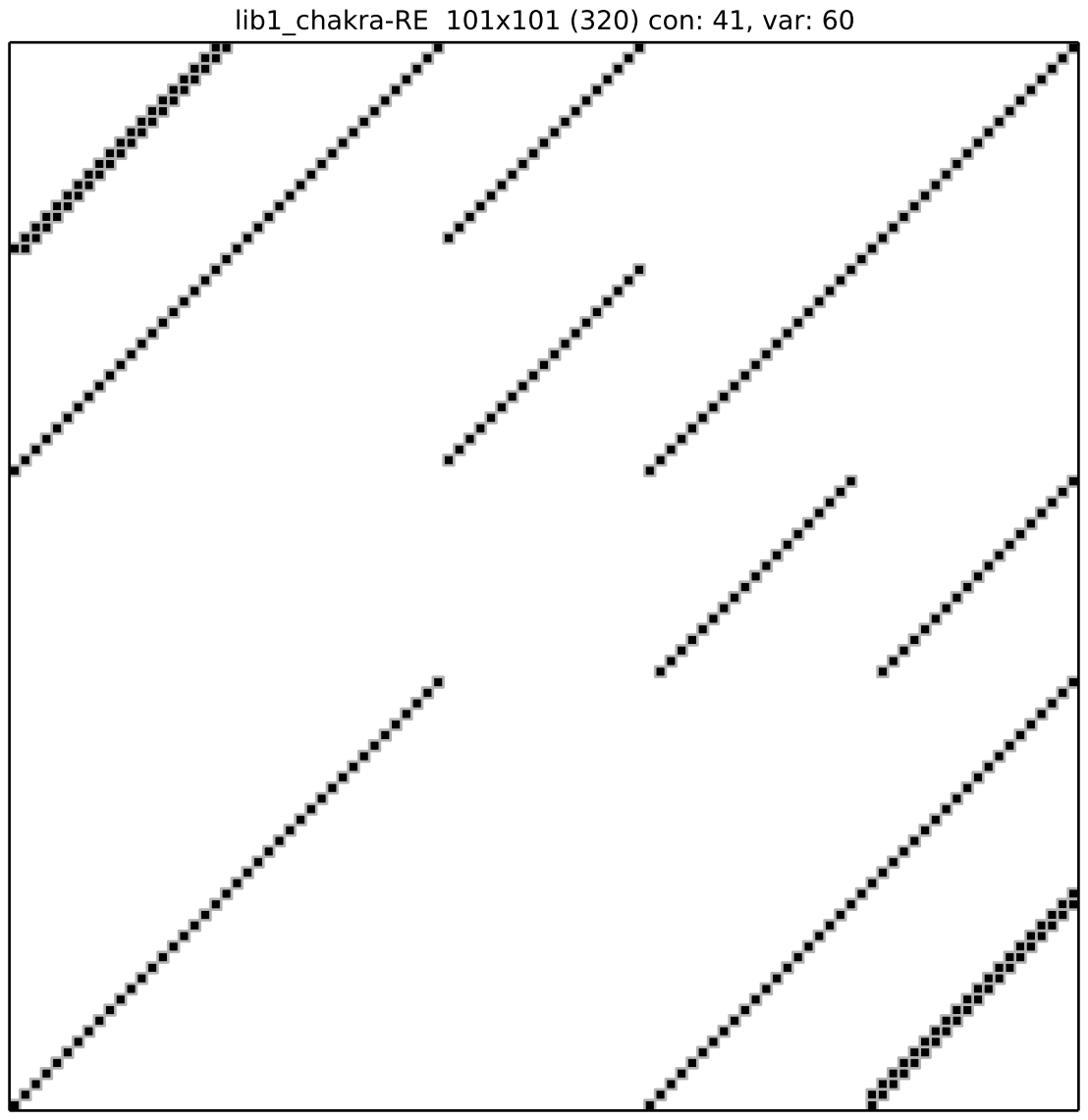
lib1_chakra-RE 101x101 (320) con: 41, var: 60

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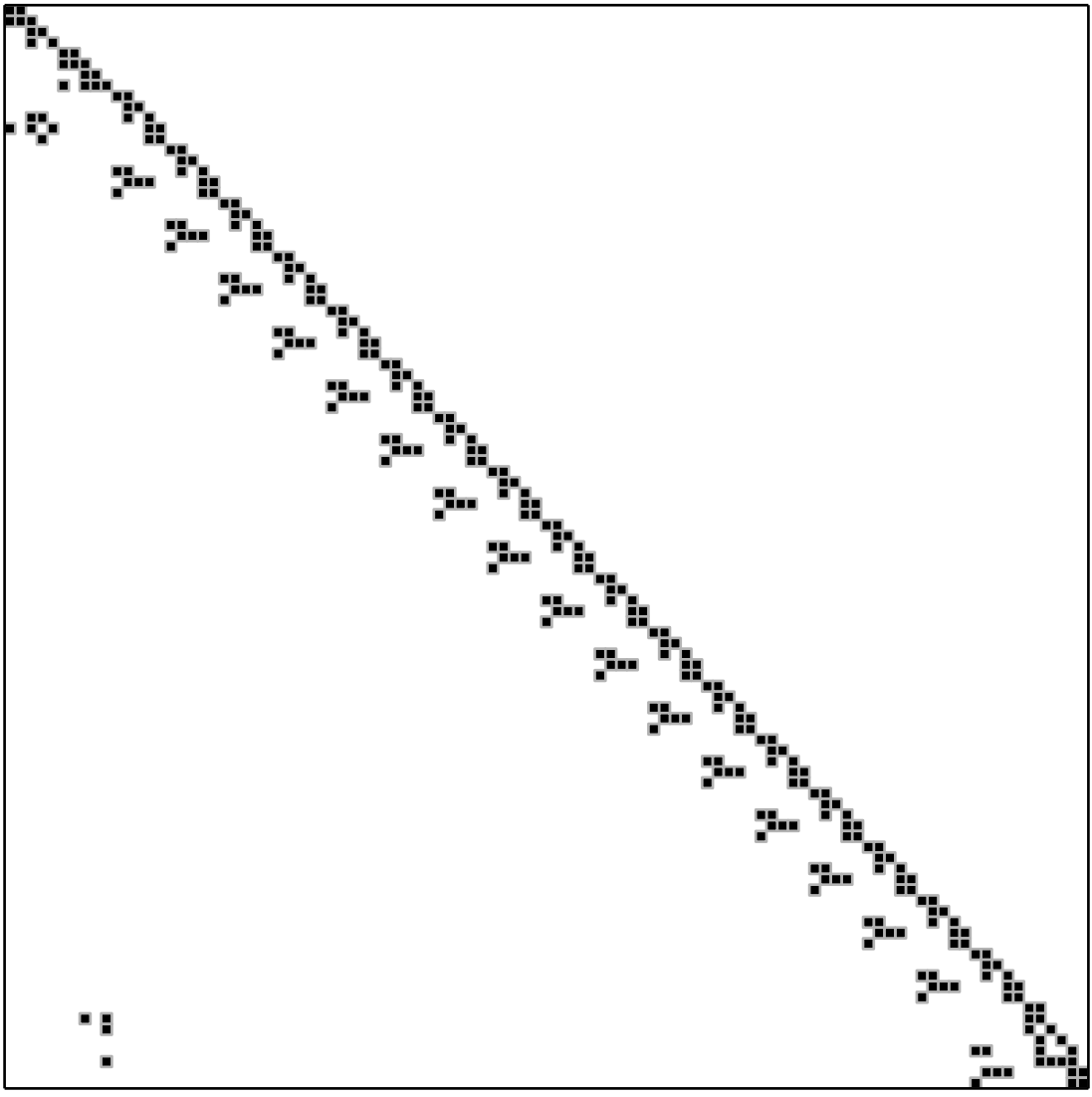
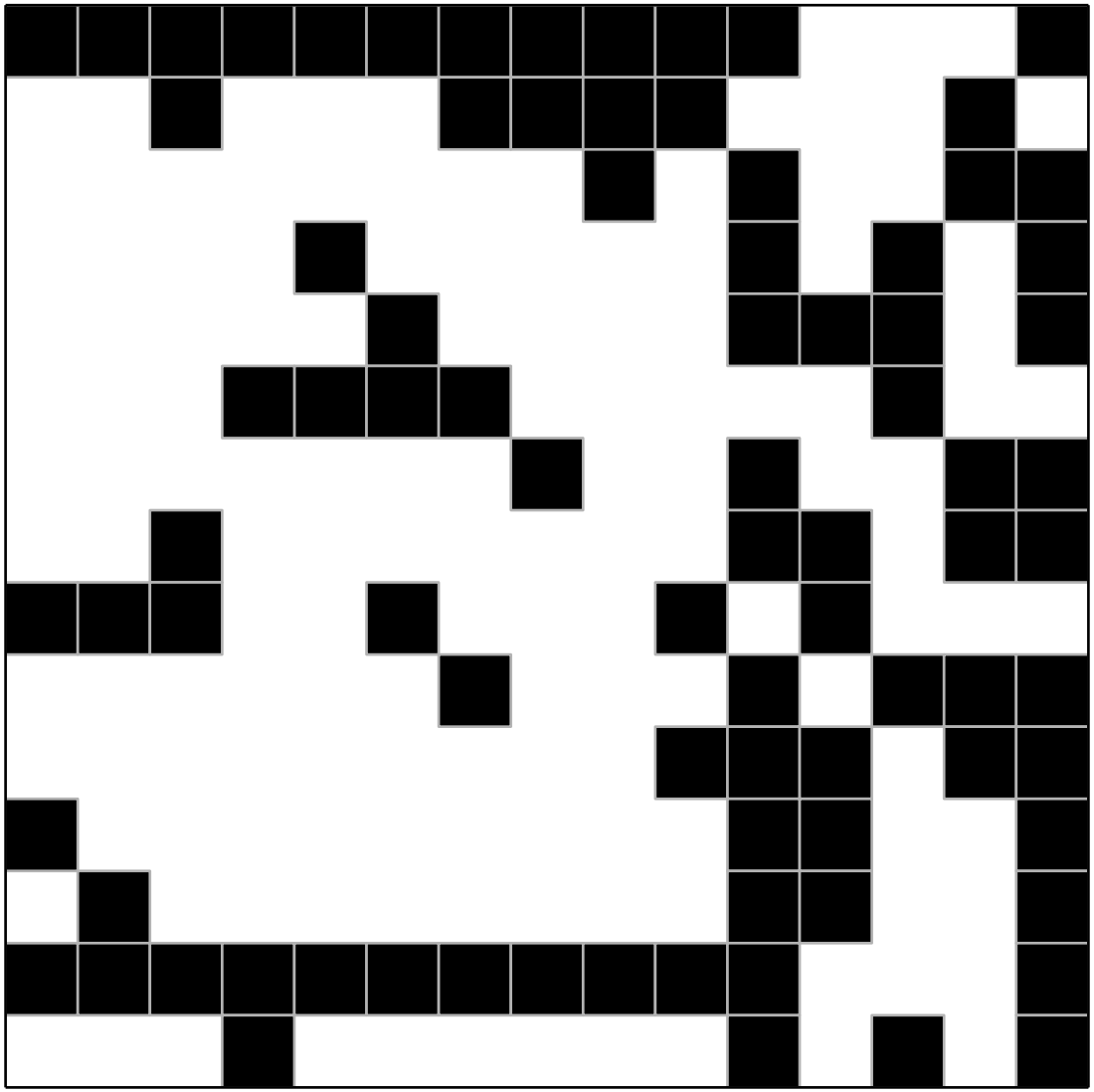
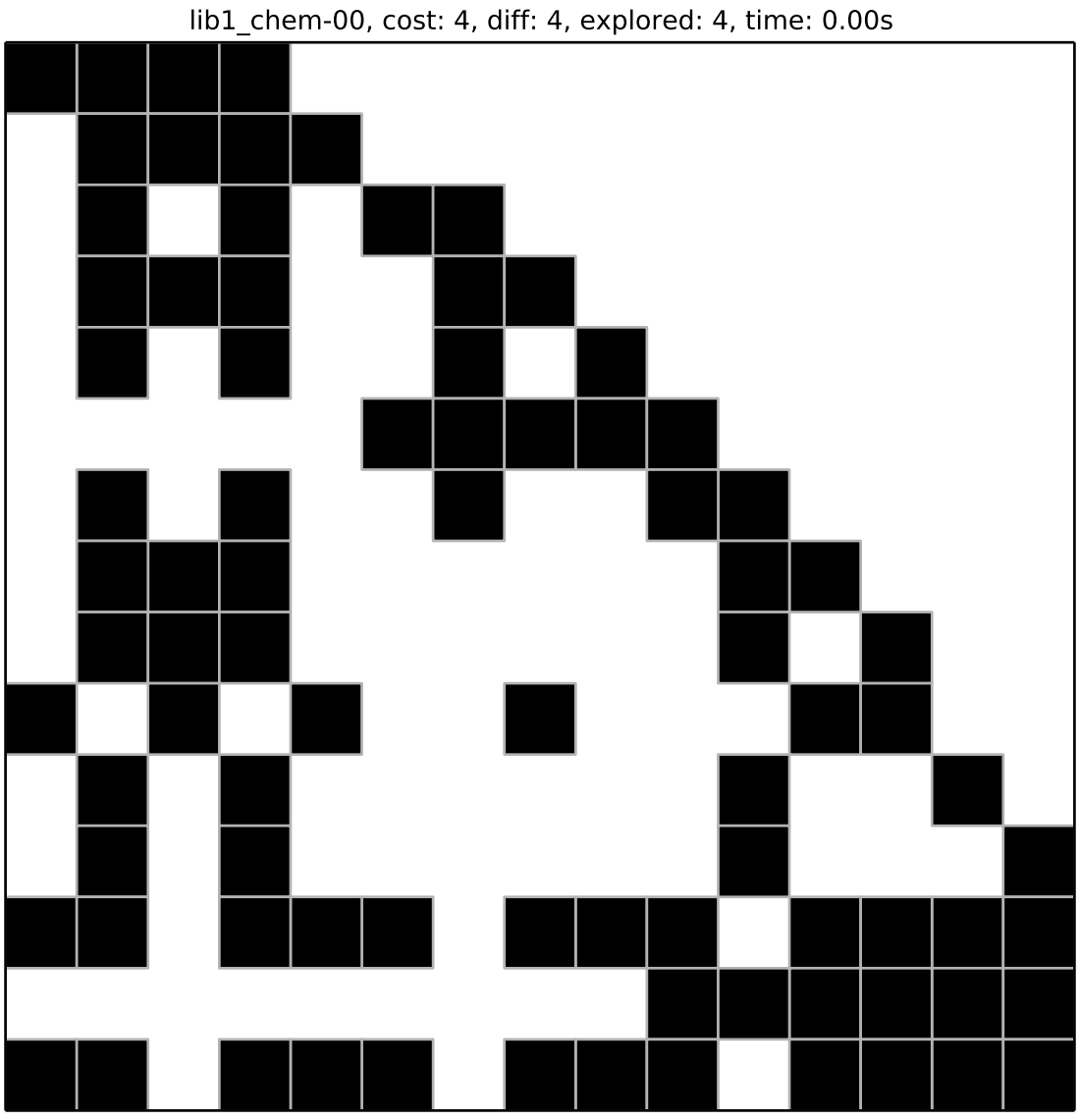


lib1_chem-00 15x15 (85) con: 4, var: 11

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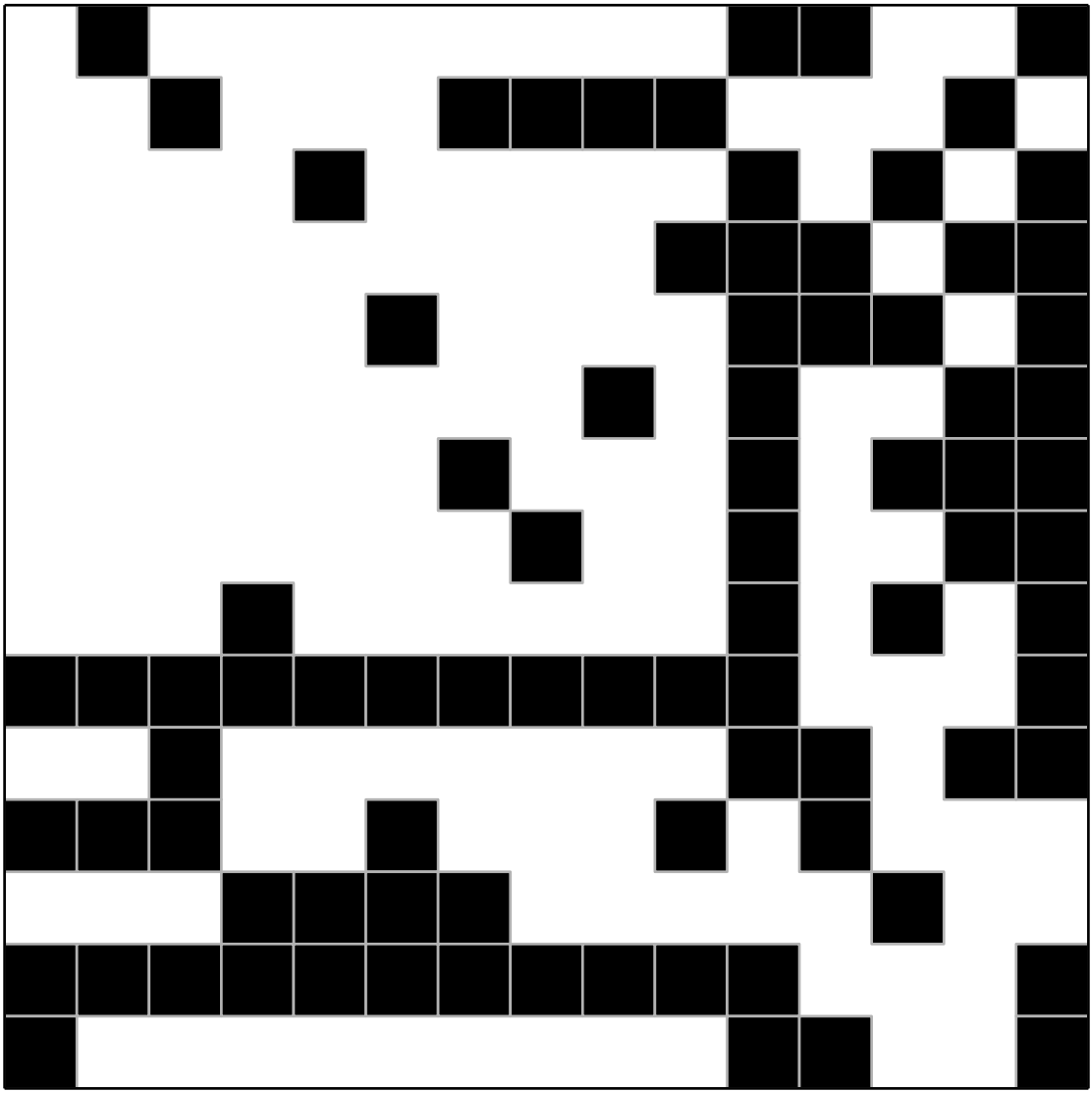

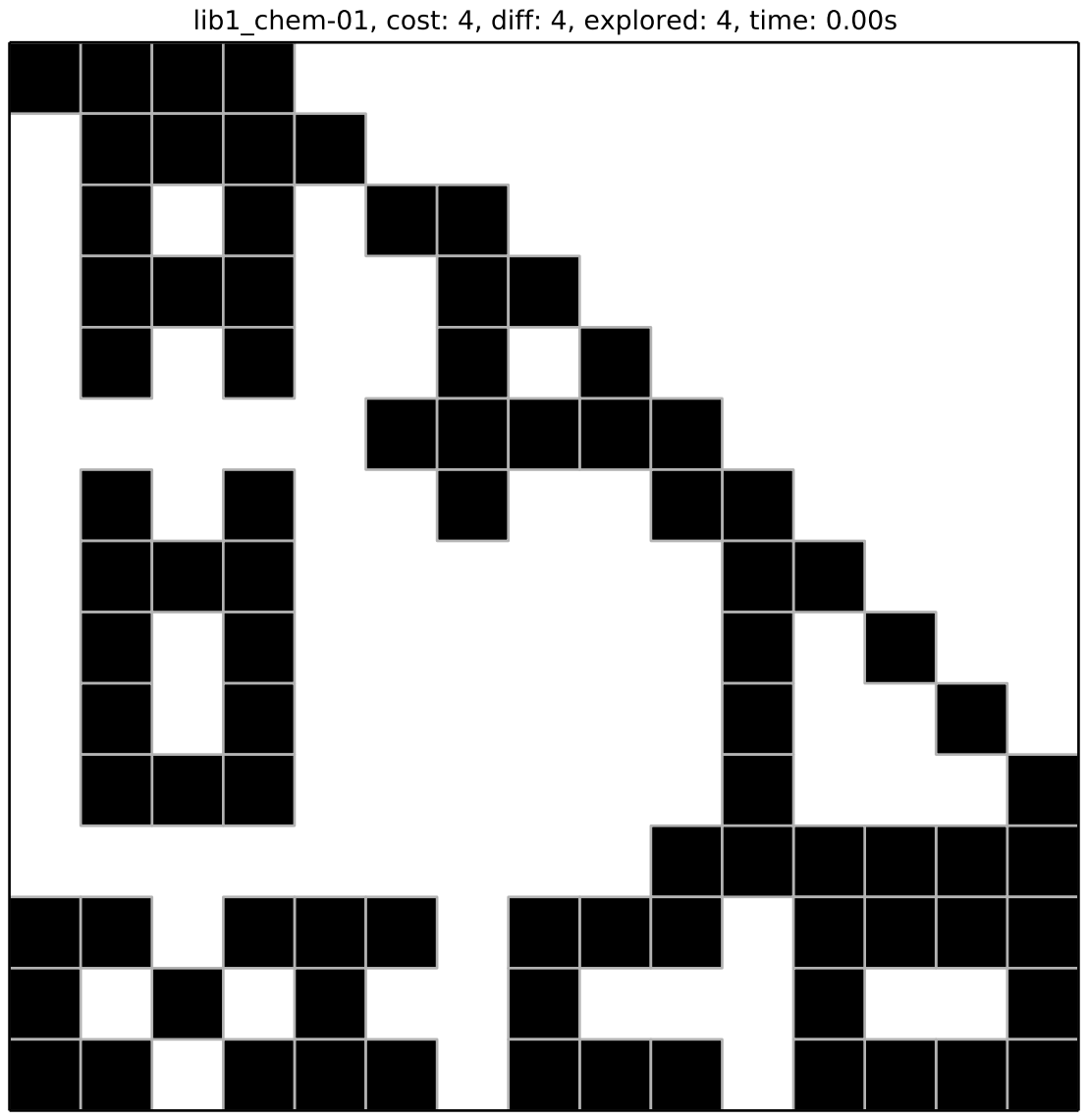
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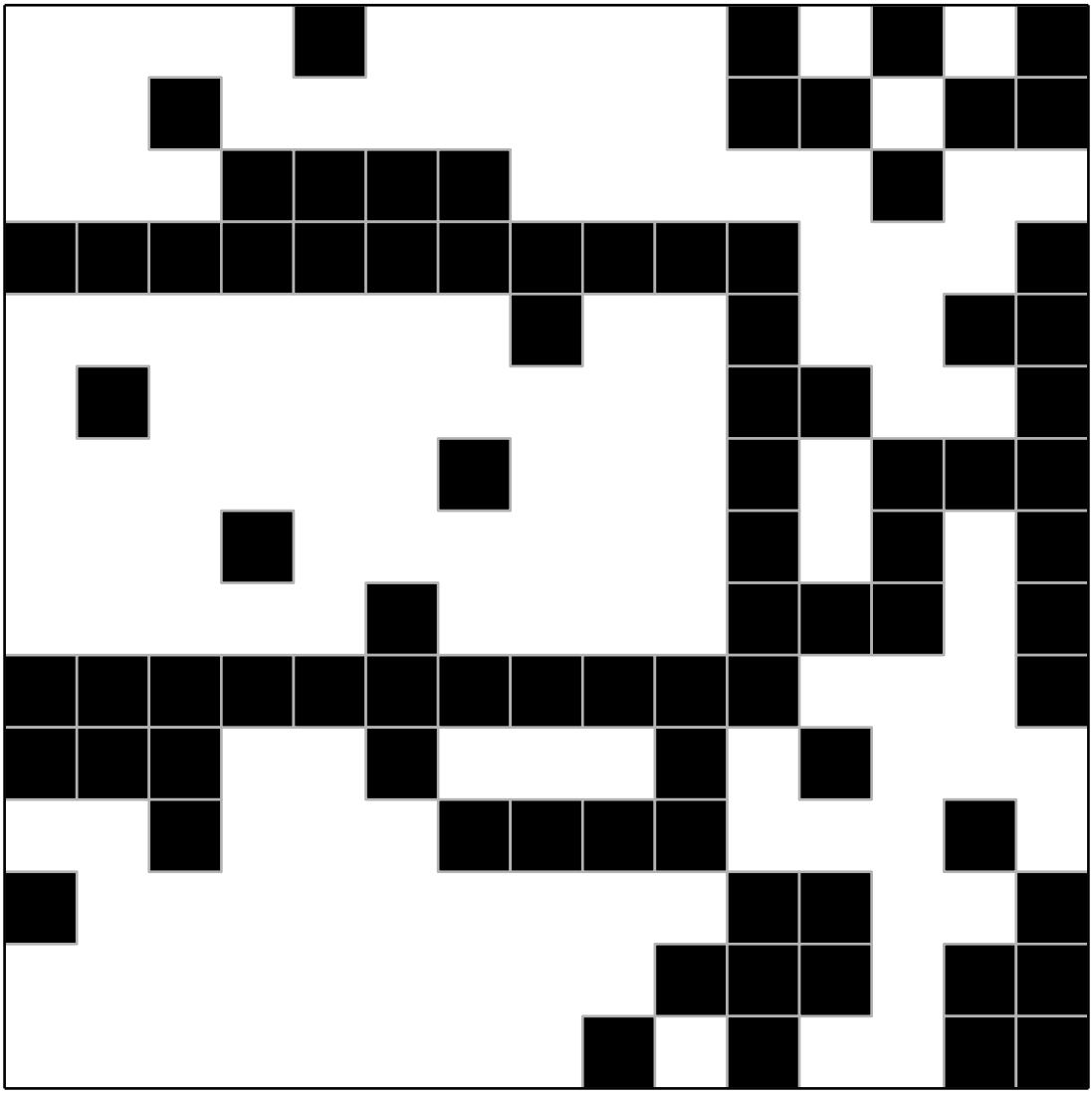

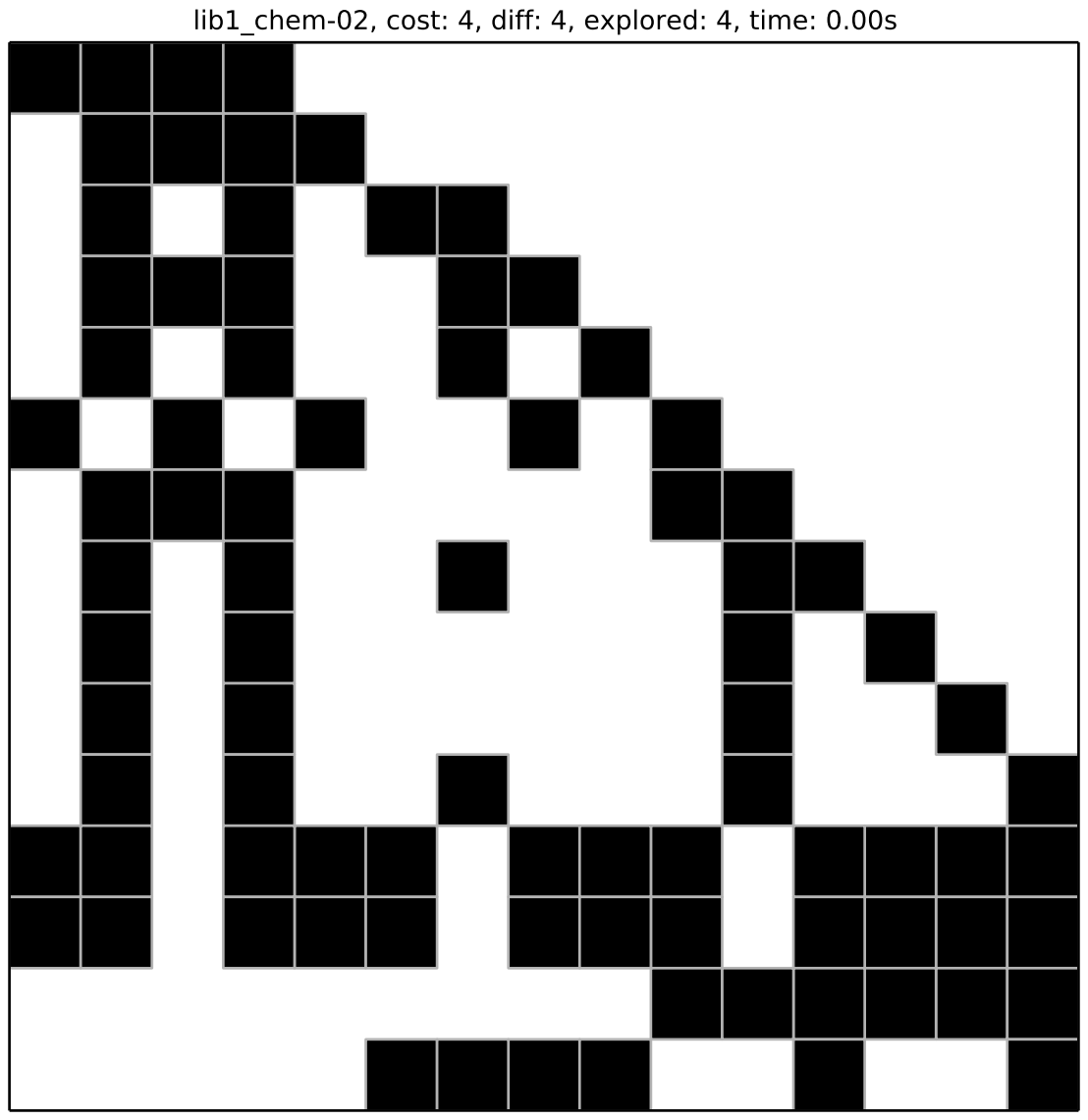
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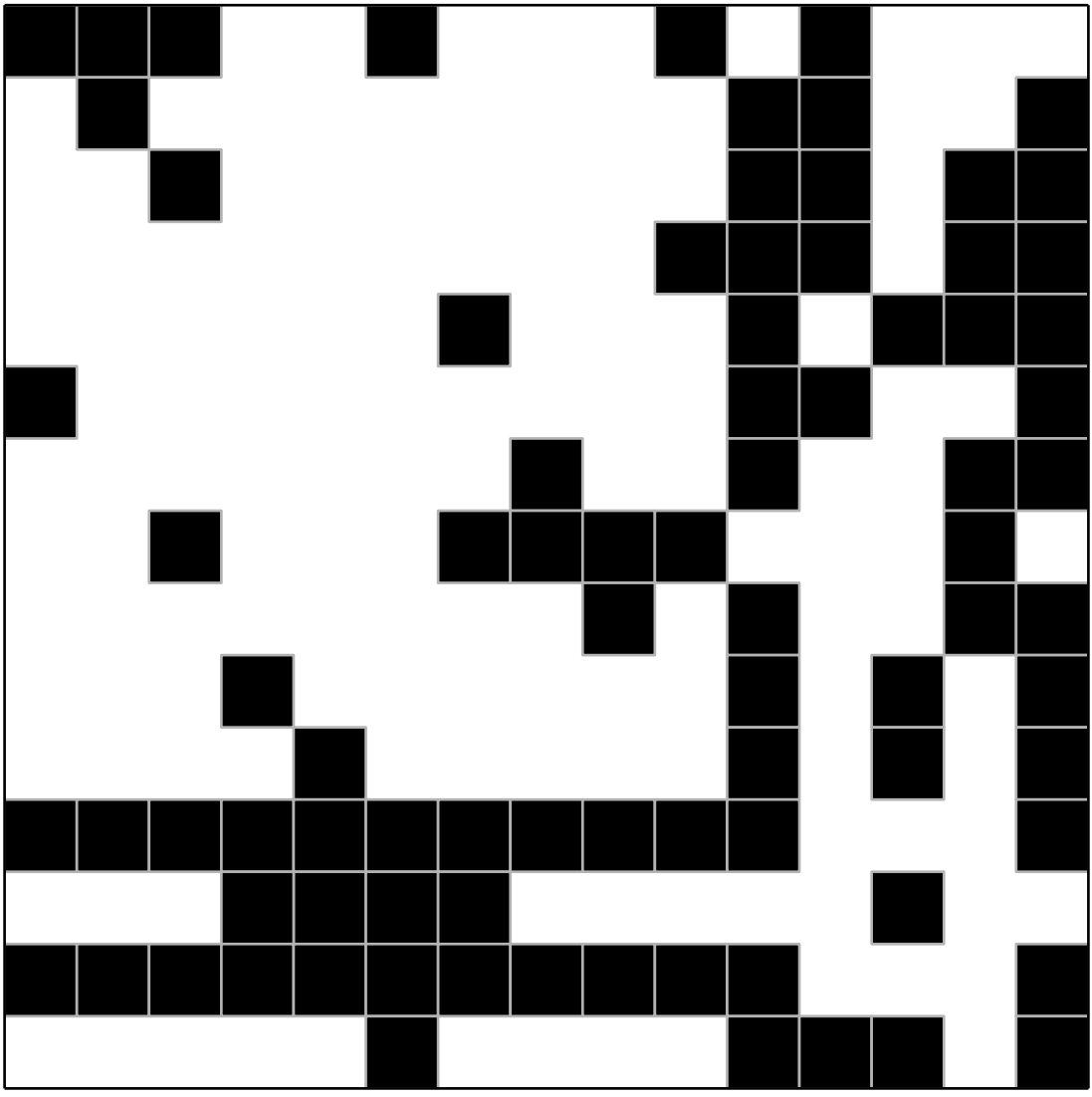

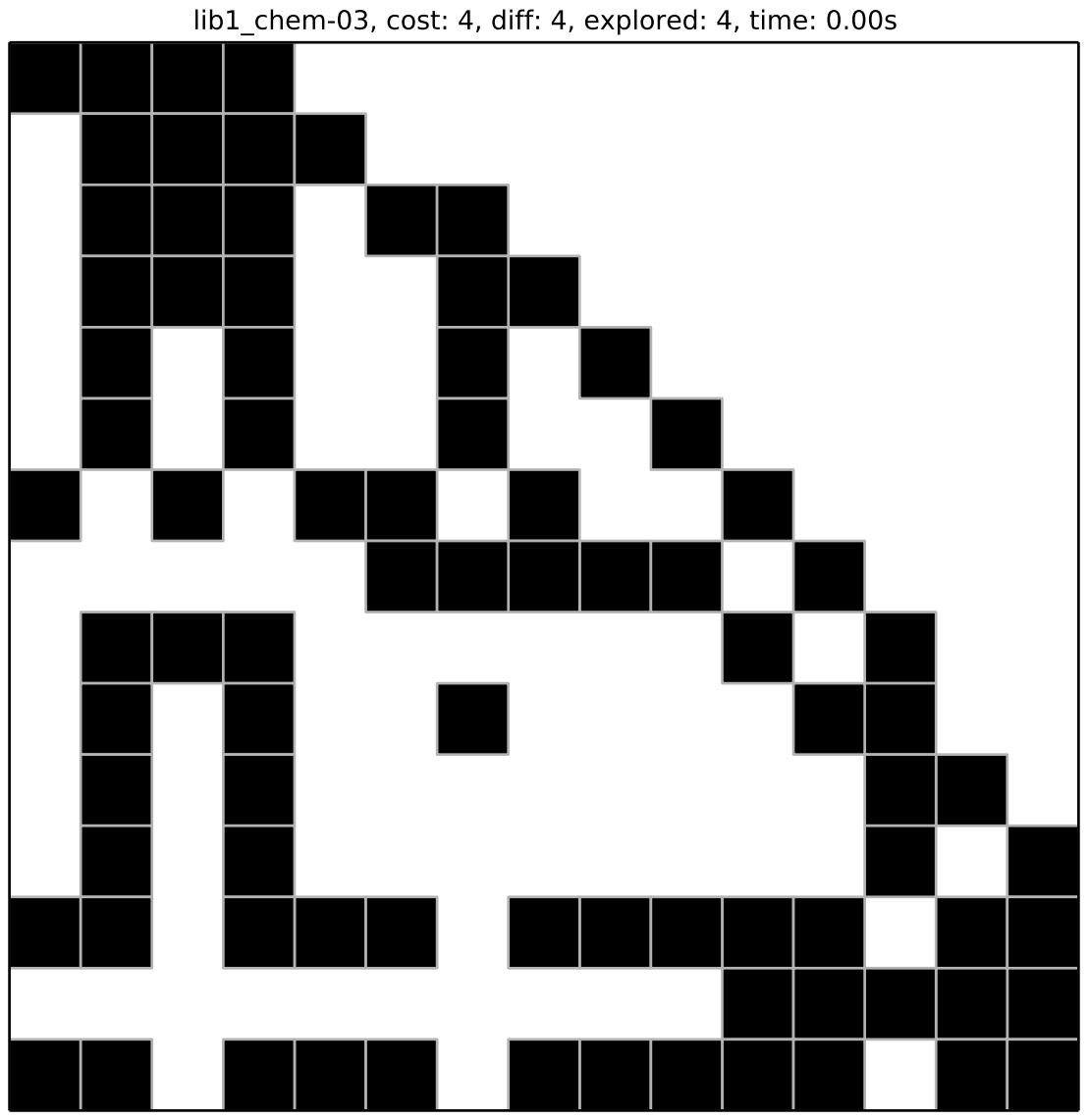
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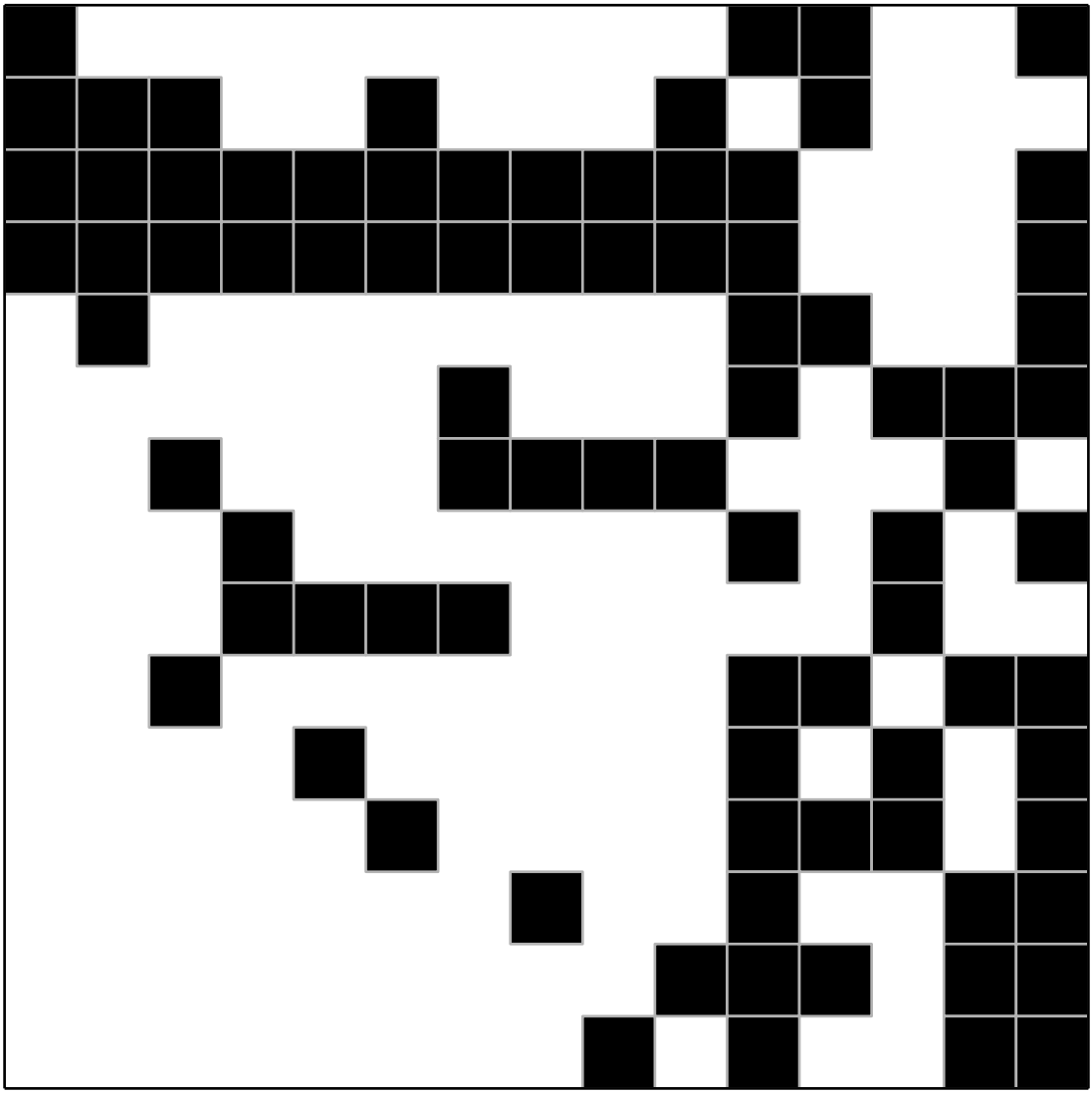

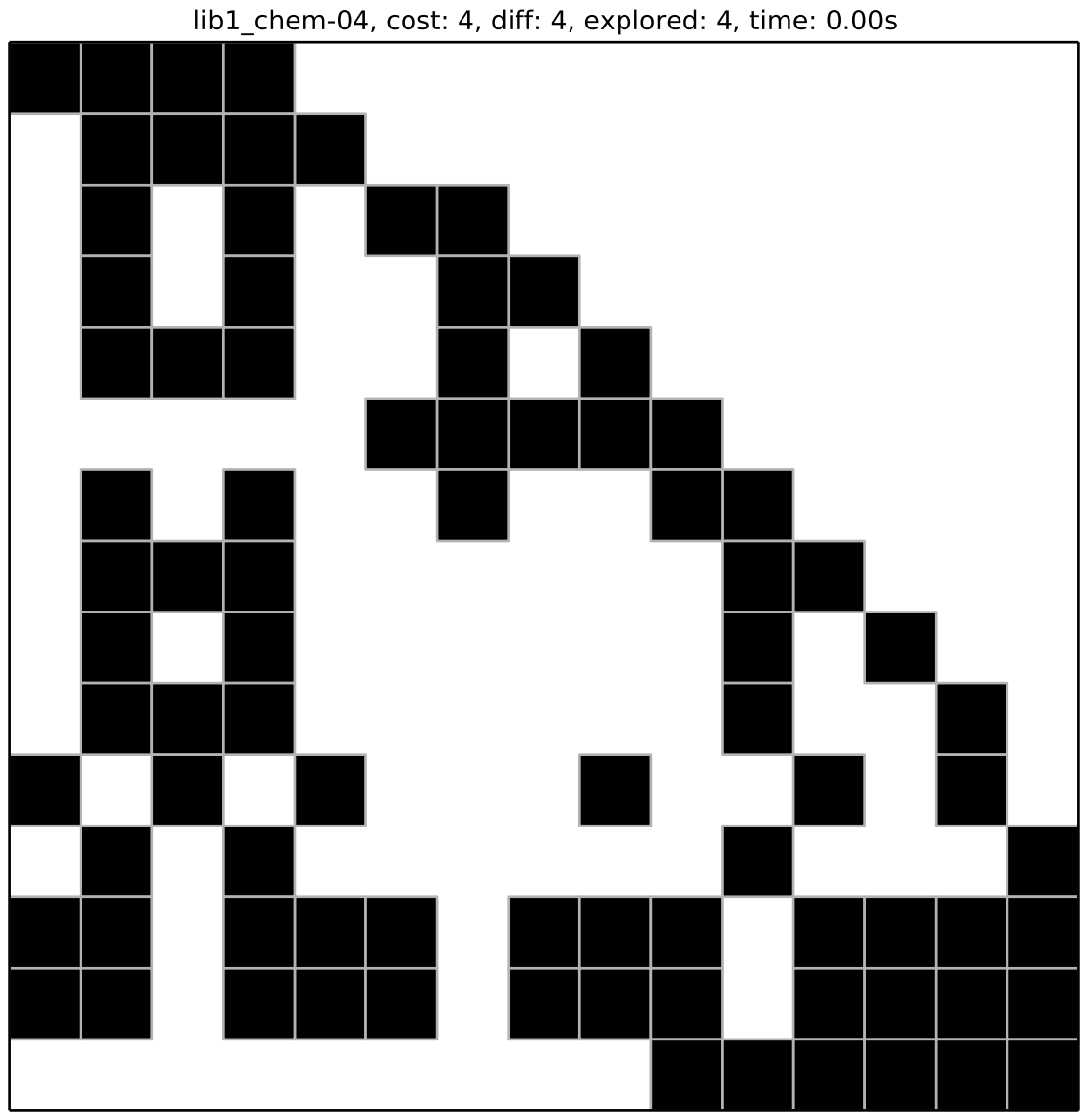
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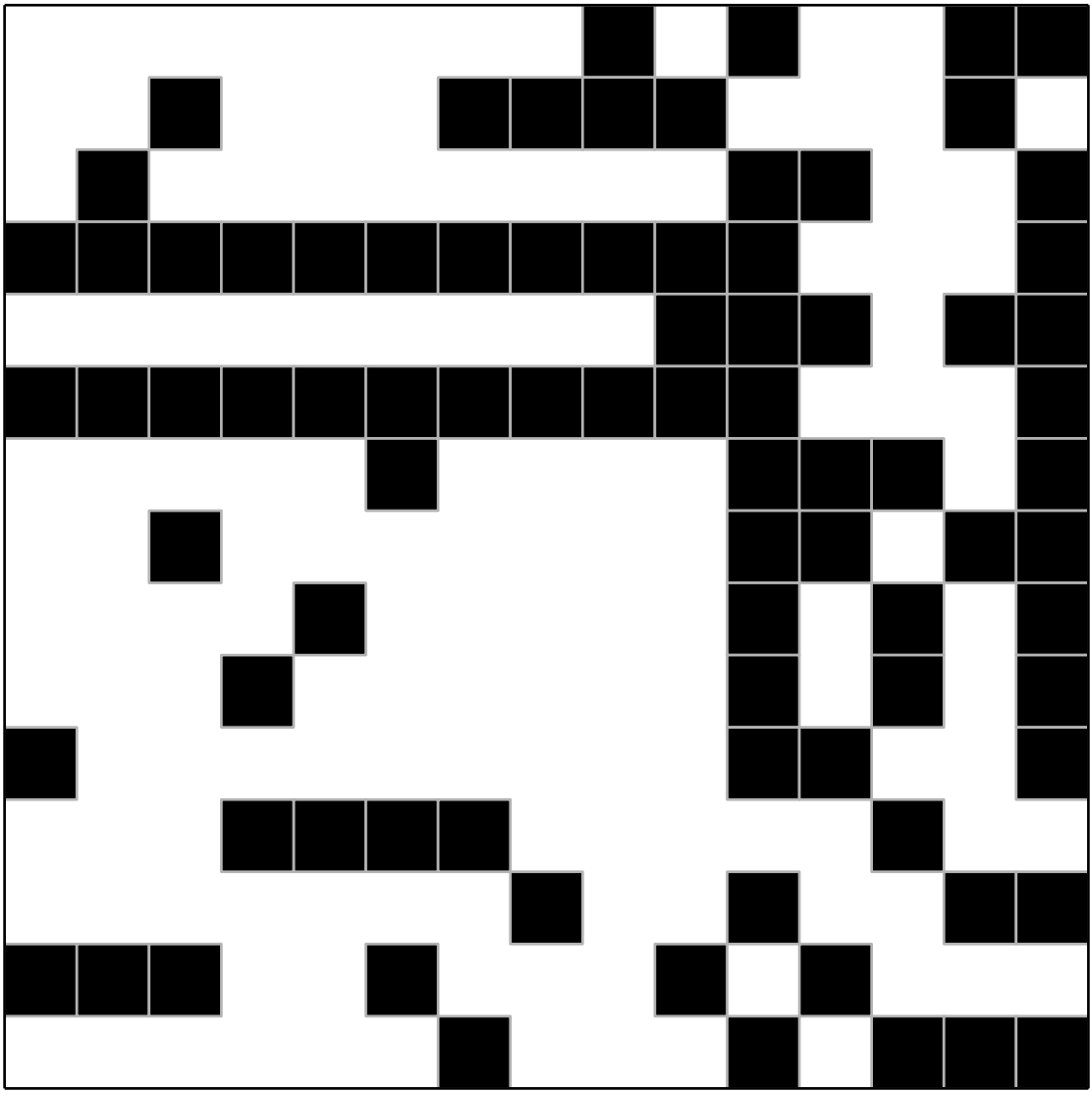

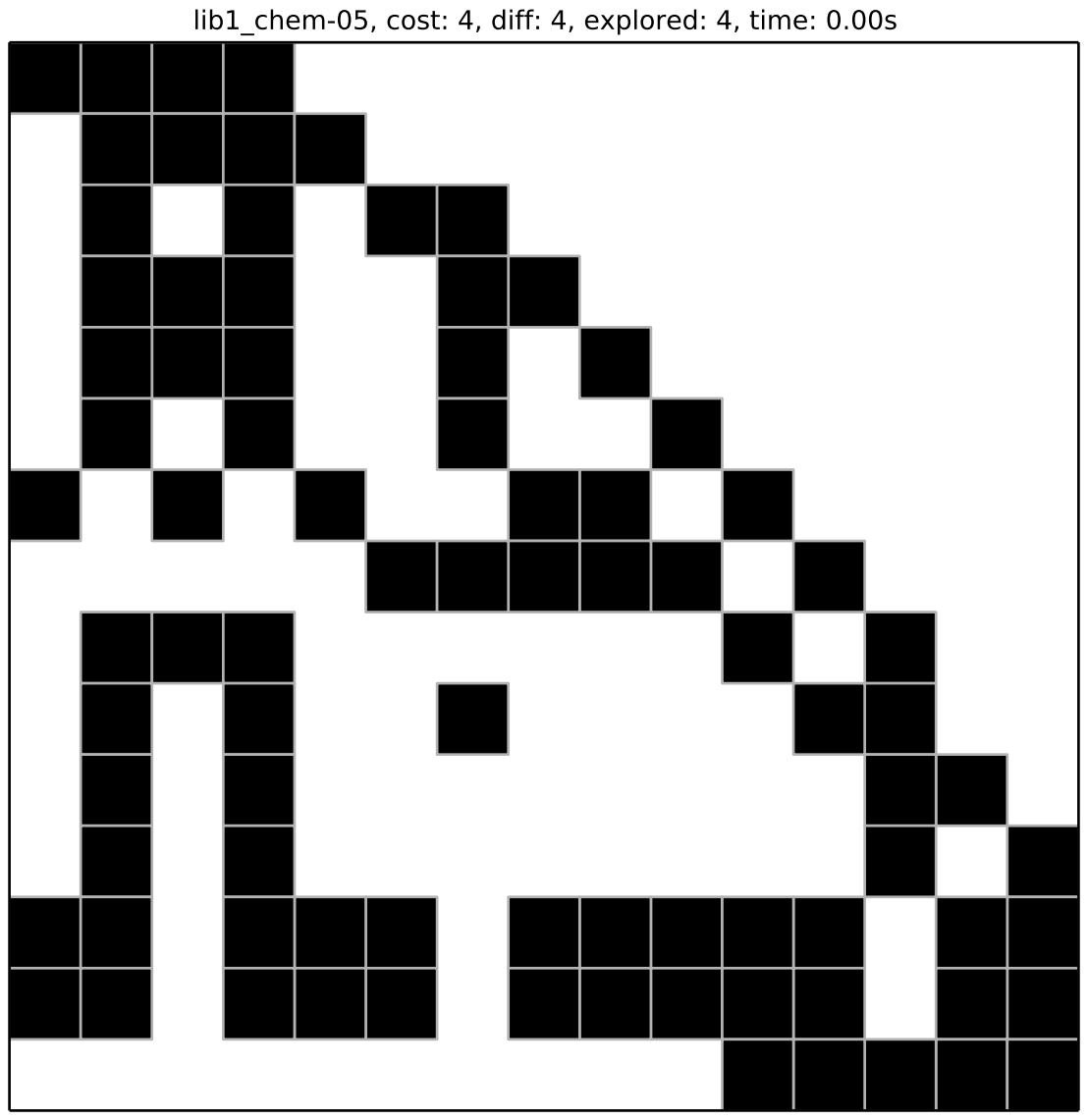
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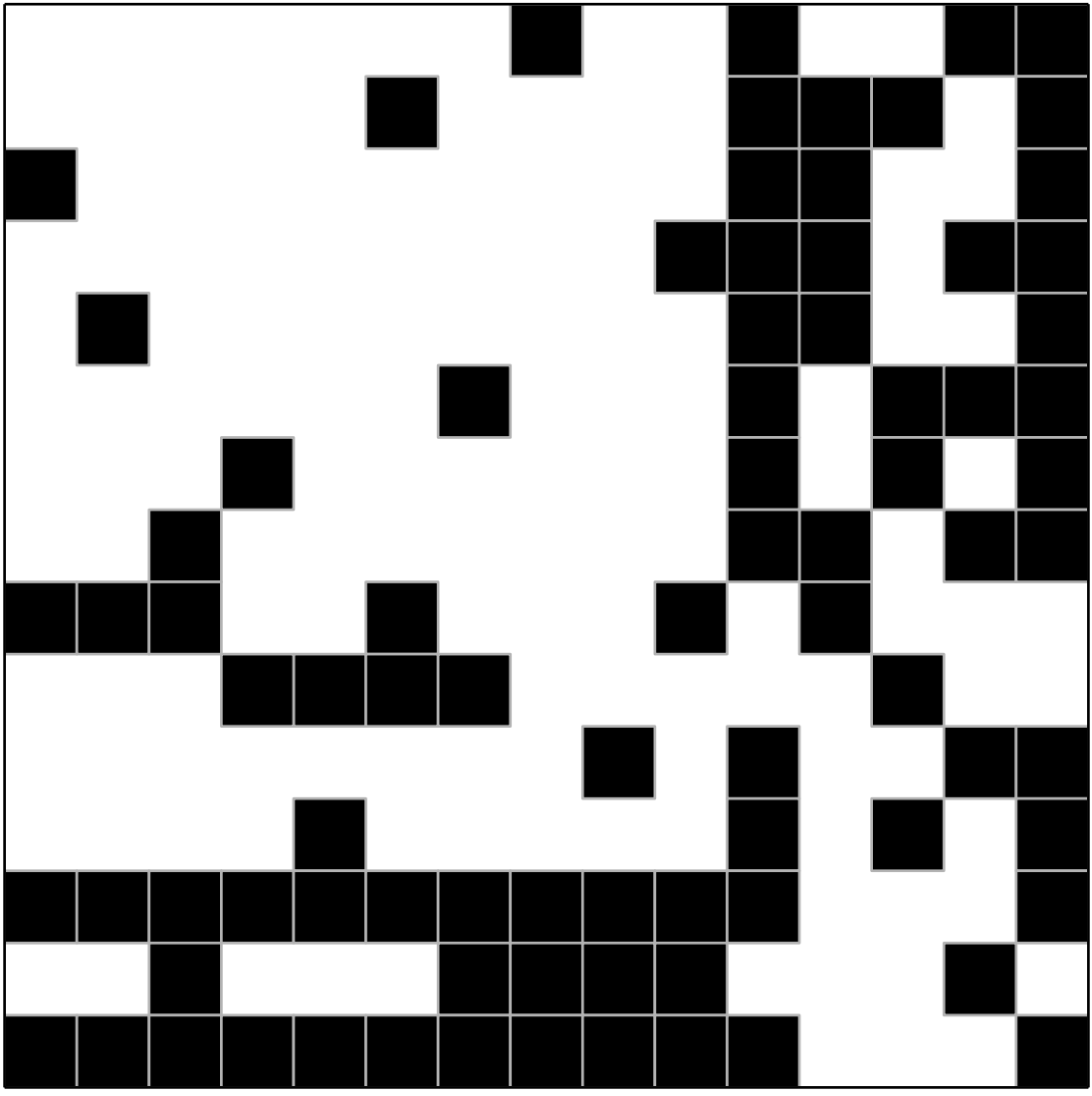
lib1_chem-06 15x15 (85) con: 4, var: 11



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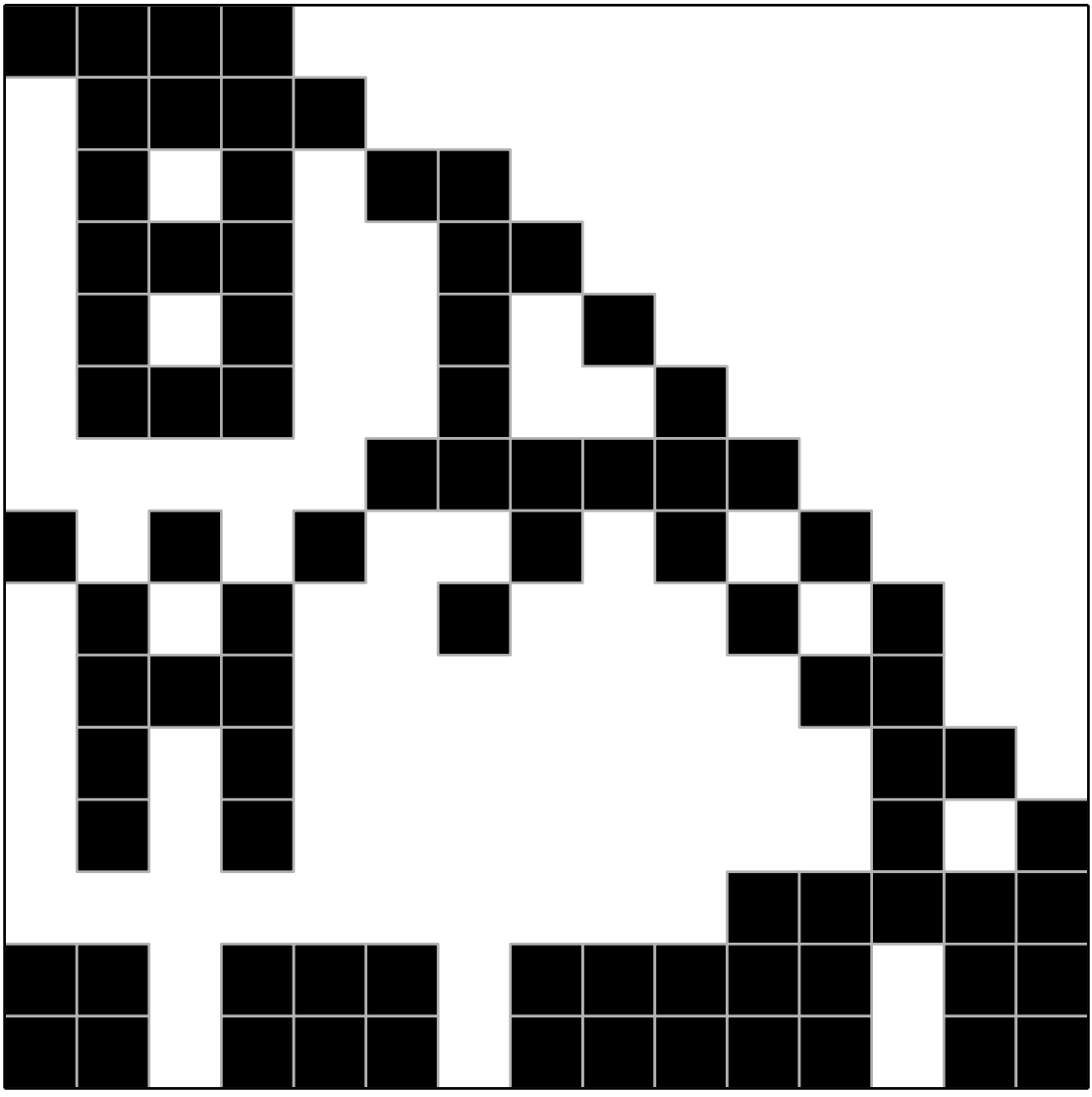
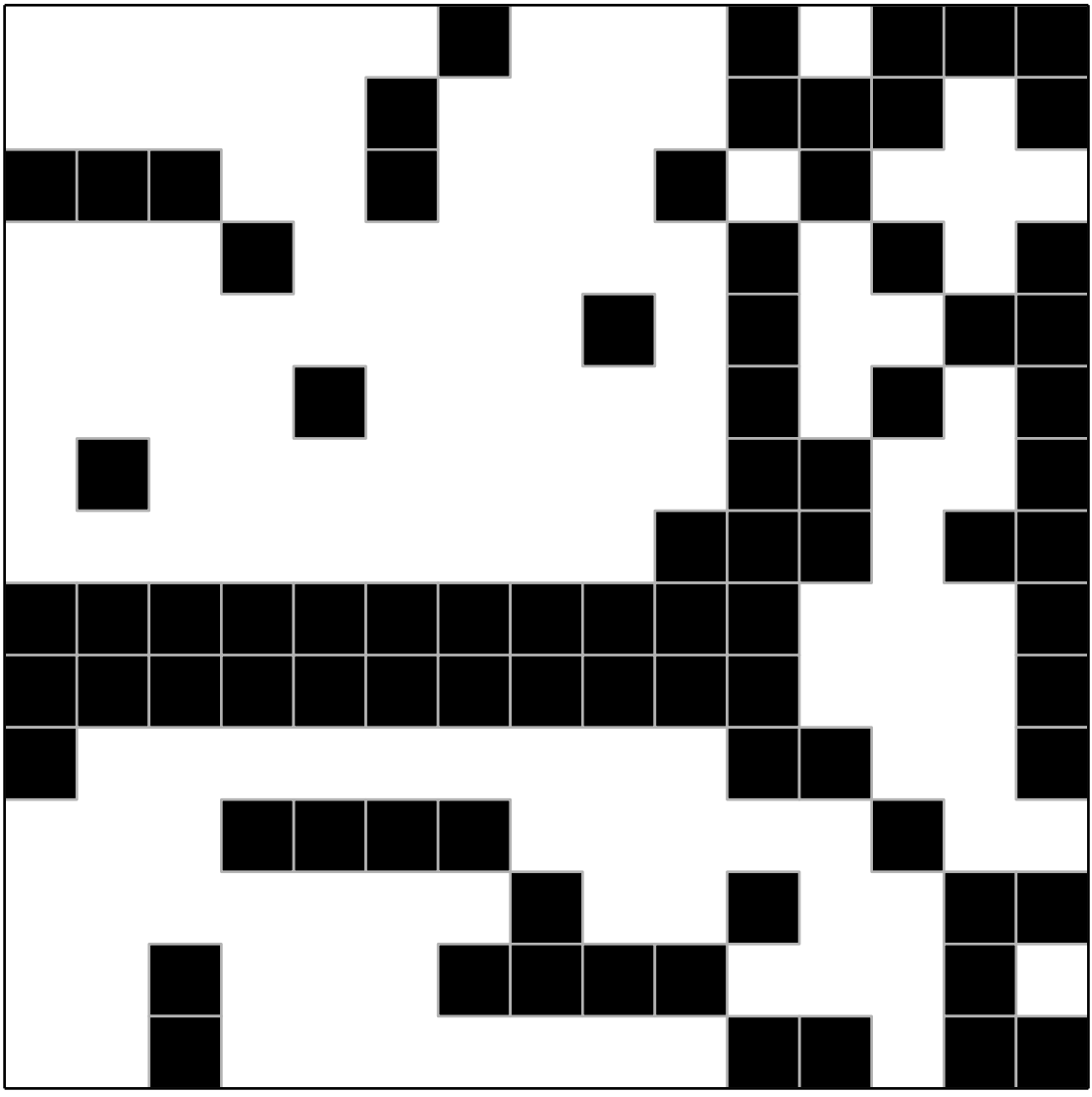
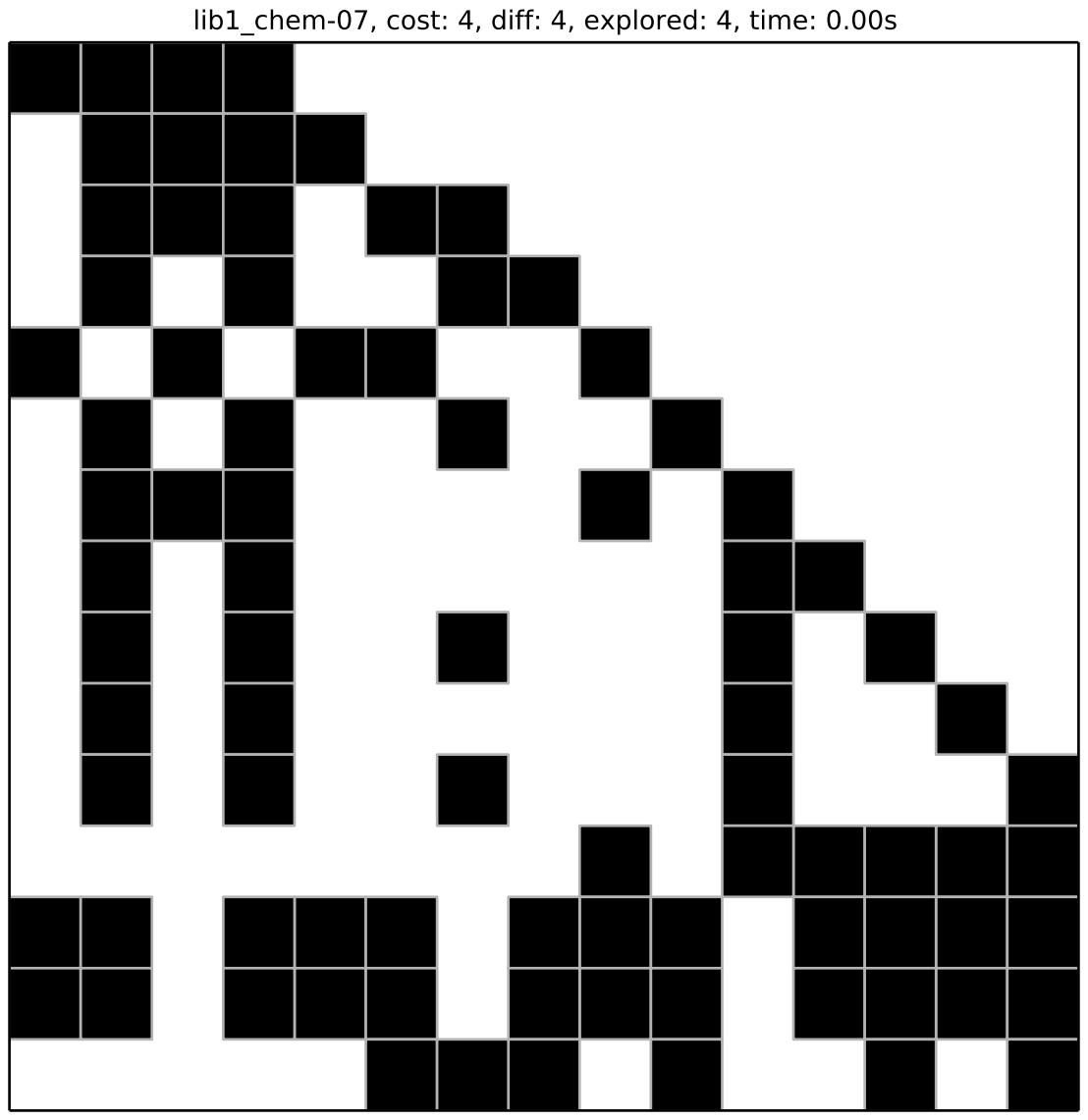


lib1_chem-07 15x15 (85) con: 4, var: 11

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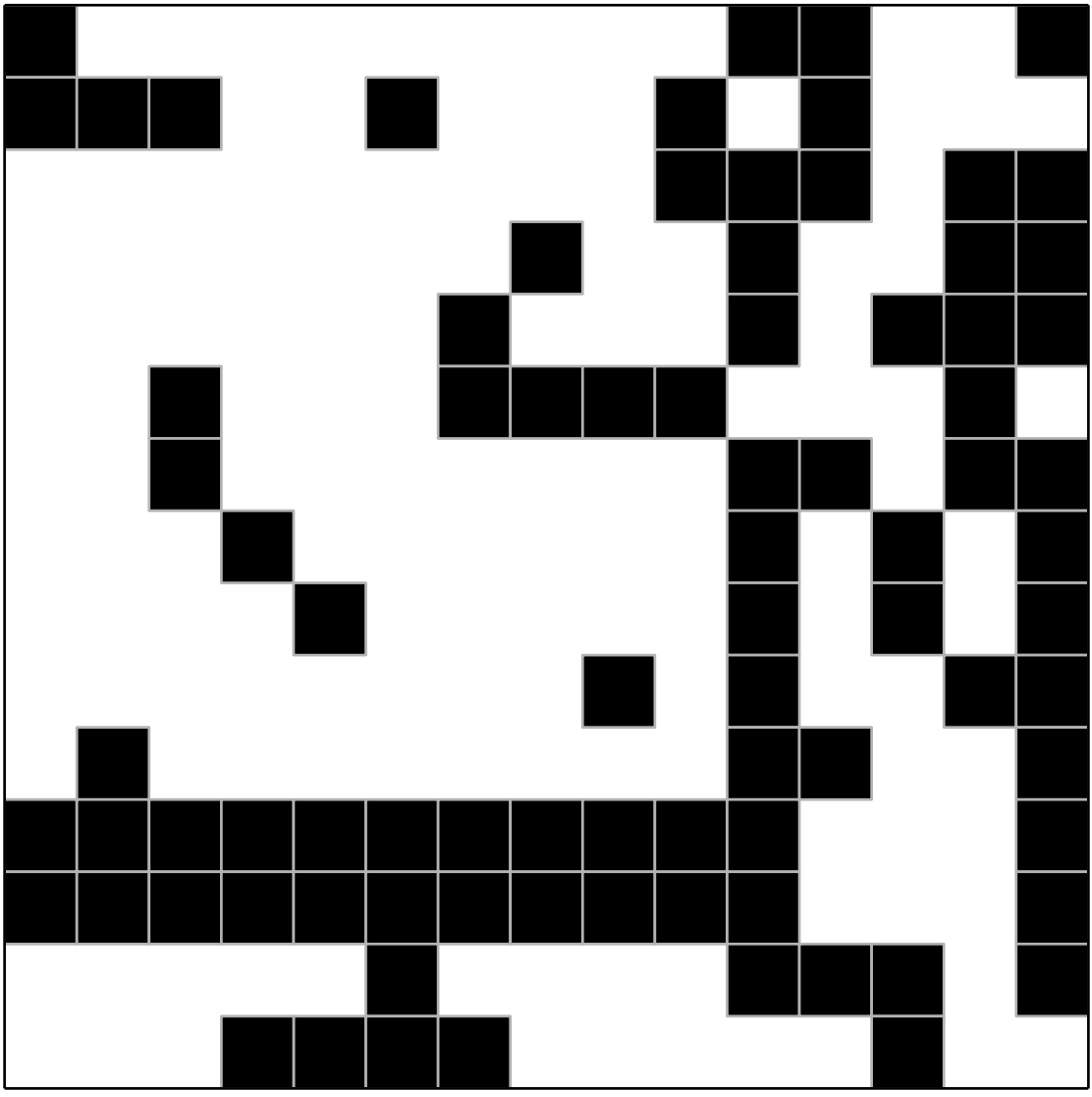
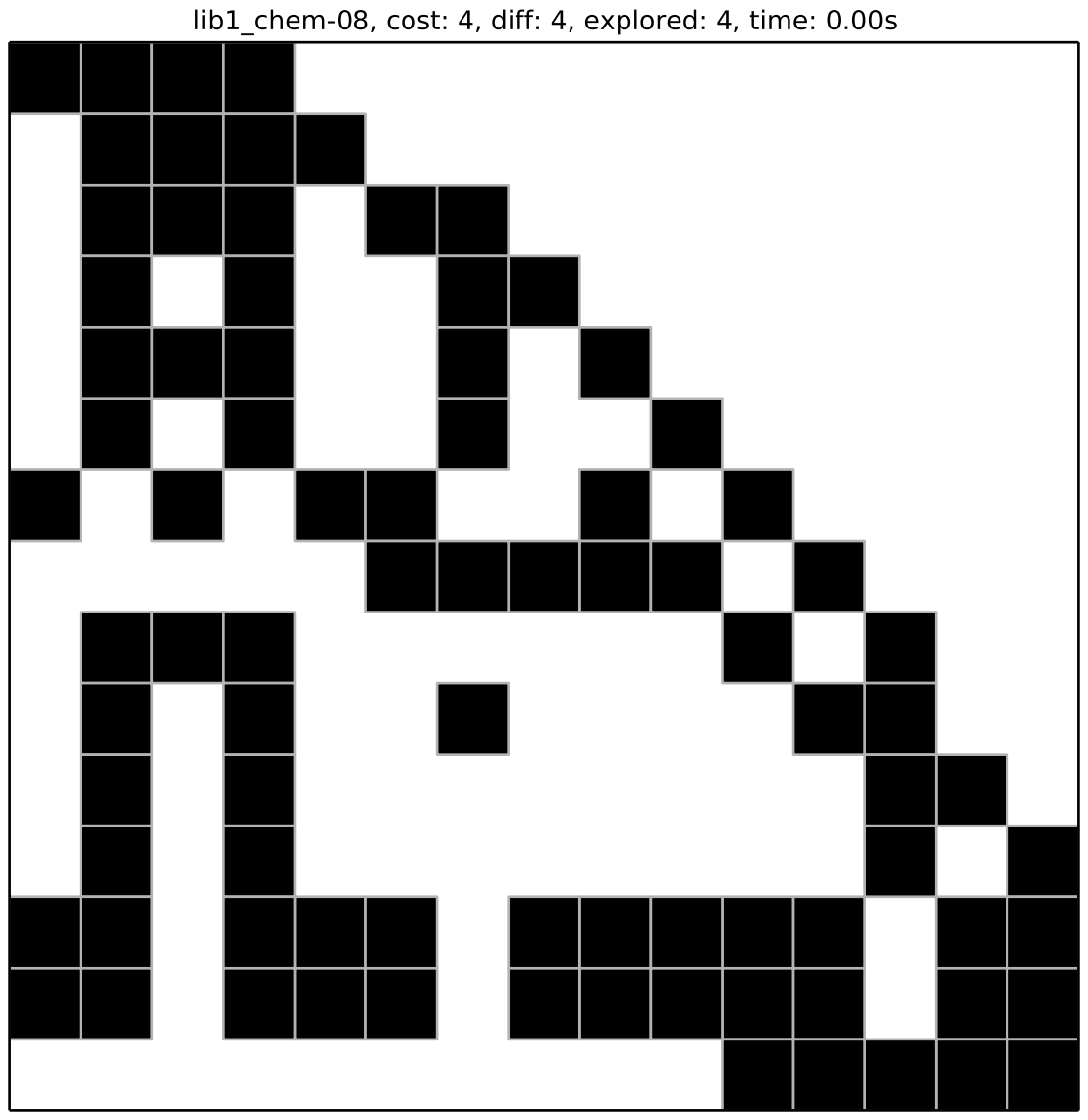
lib1_chem-08 15x15 (85) con: 4, var: 11

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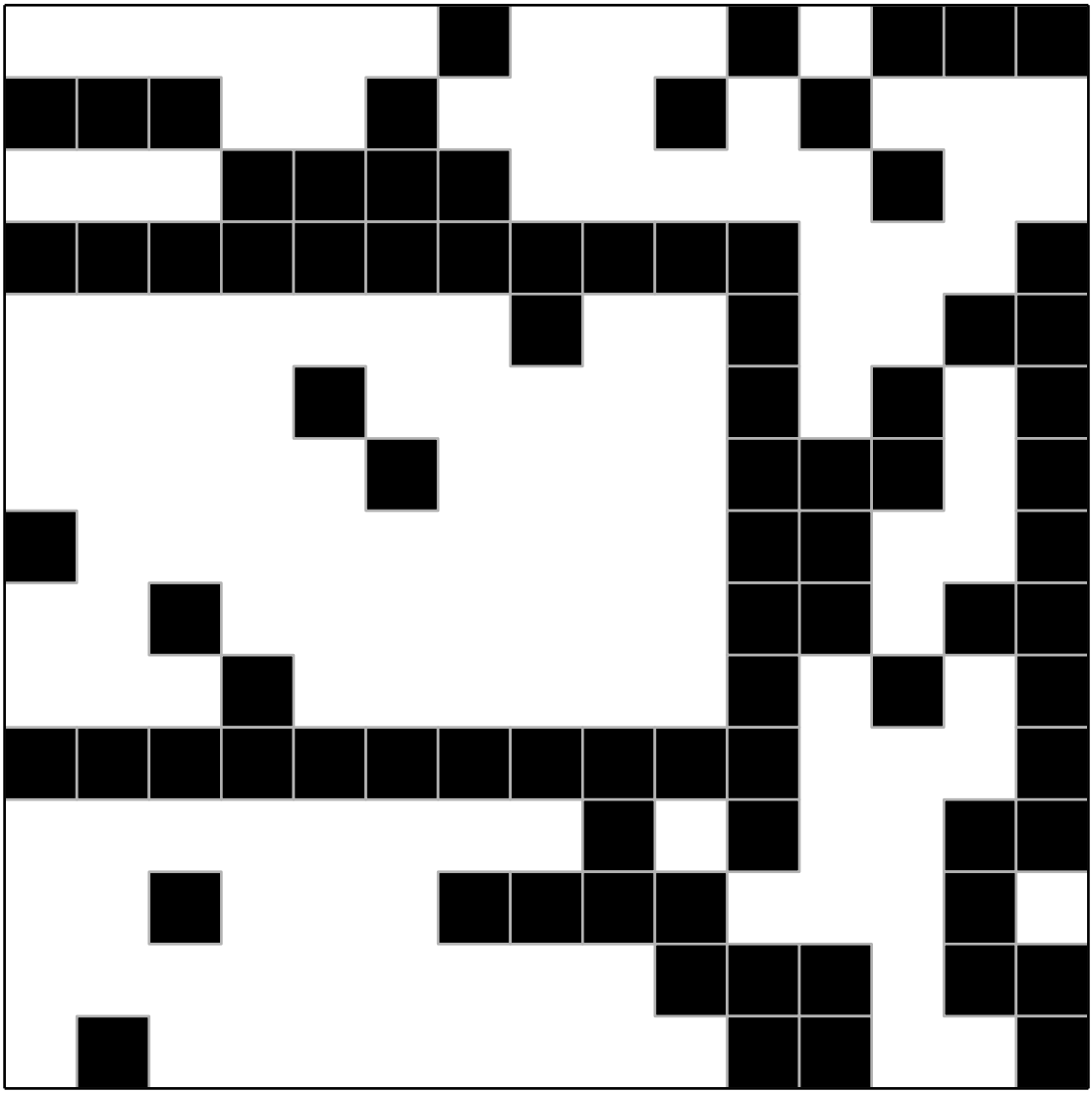
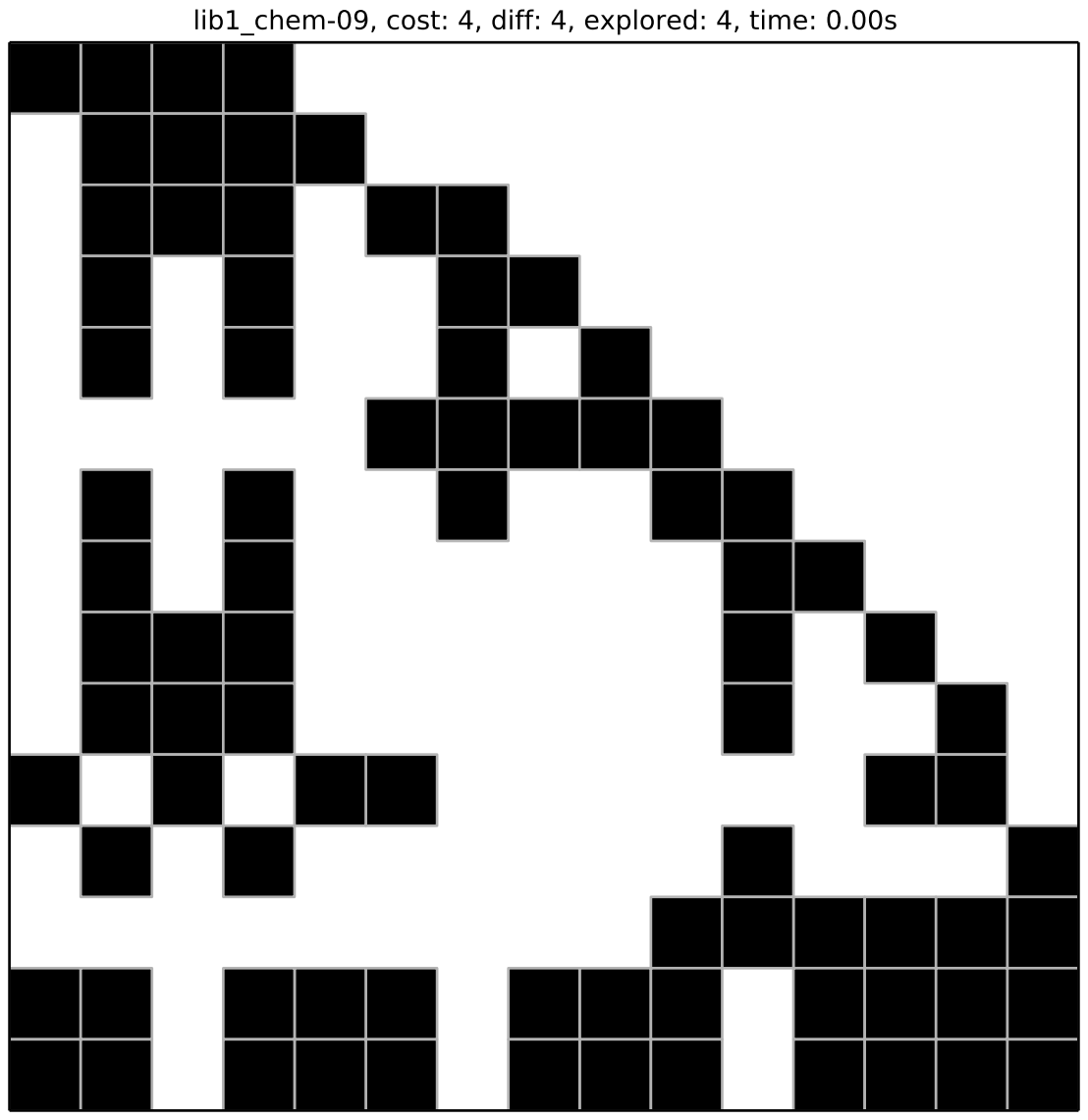
lib1_chem-09 15x15 (85) con: 4, var: 11

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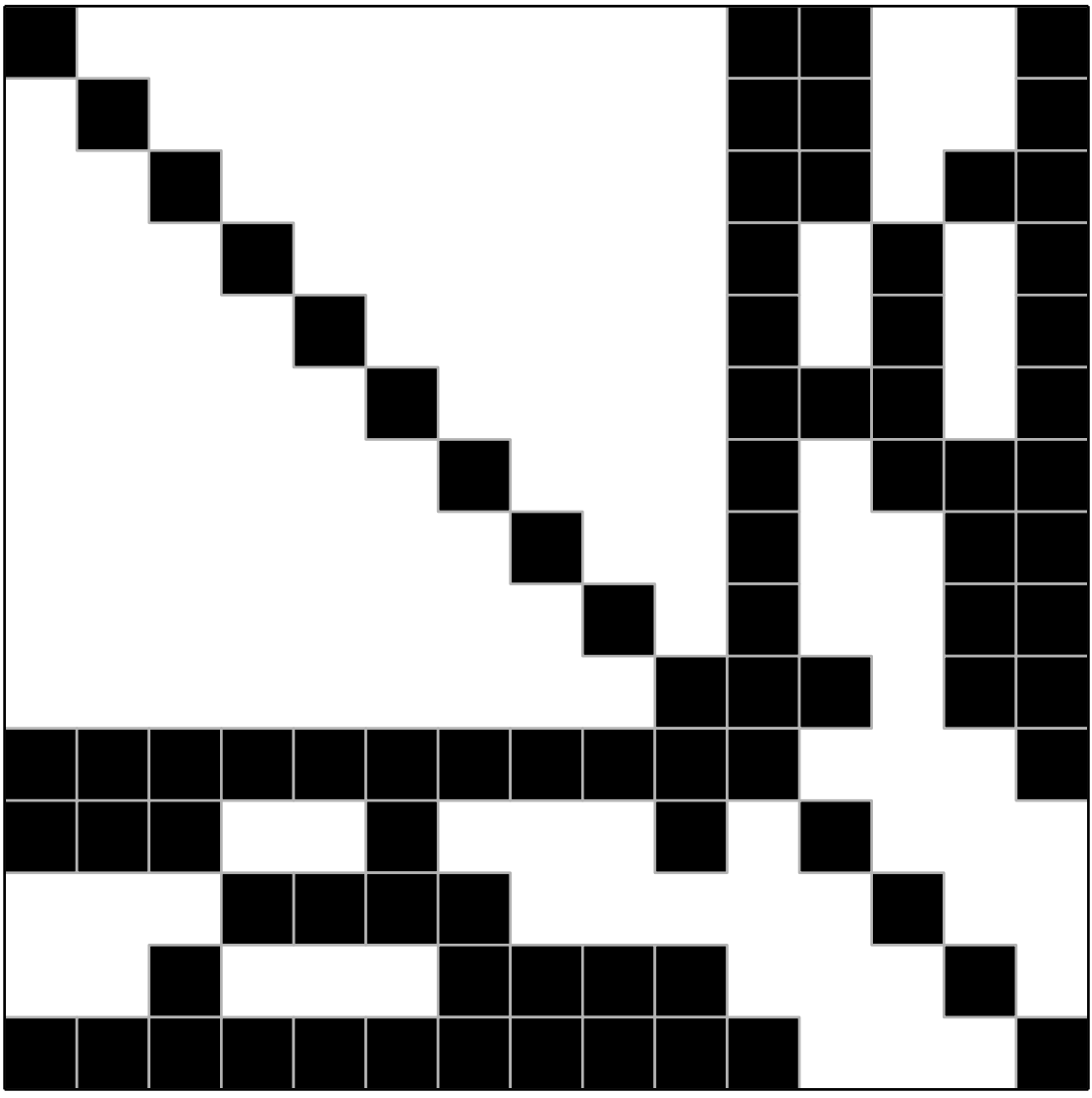
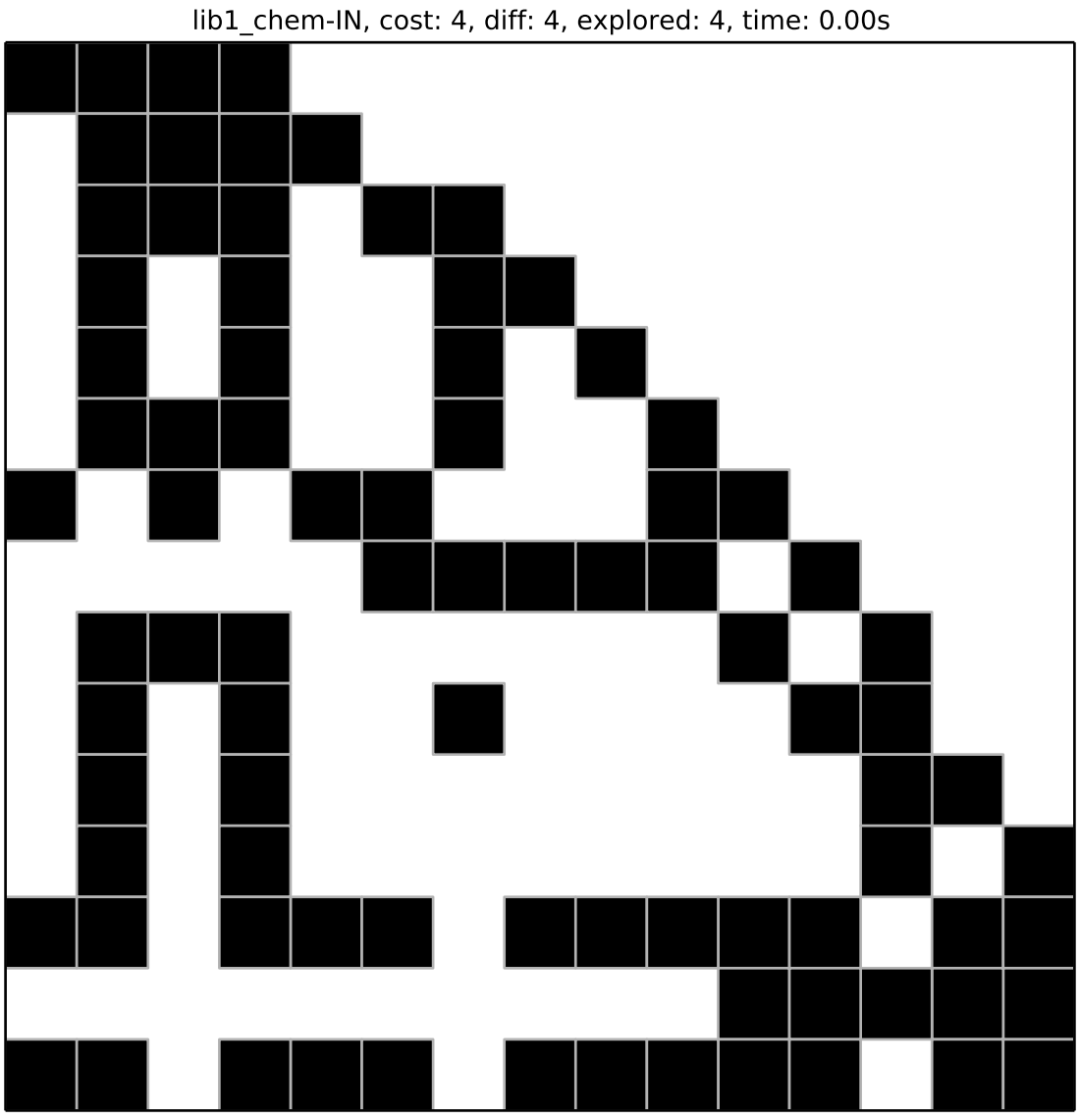

lib1_chem-IN 15x15 (85) con: 4, var: 11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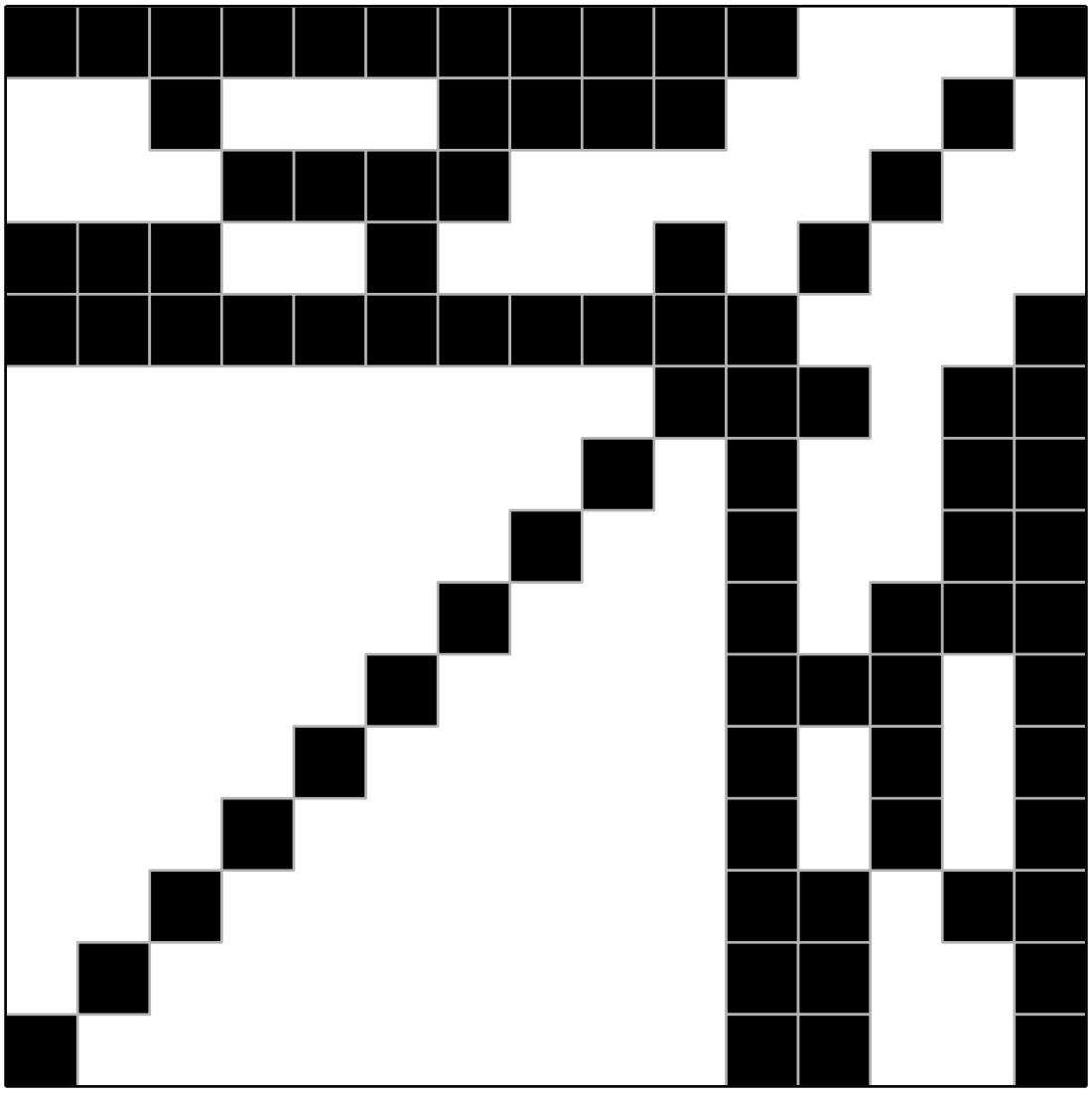
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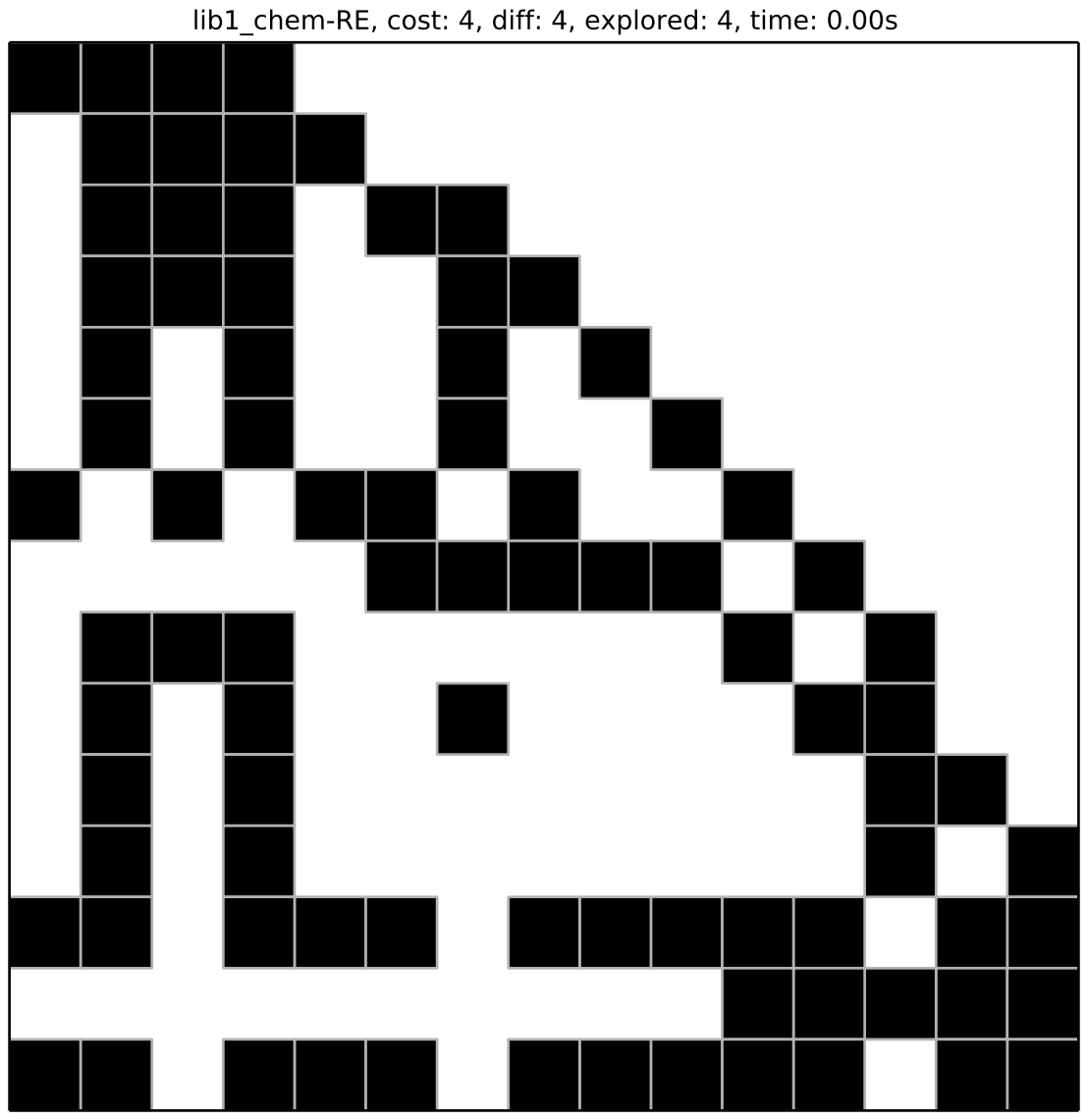
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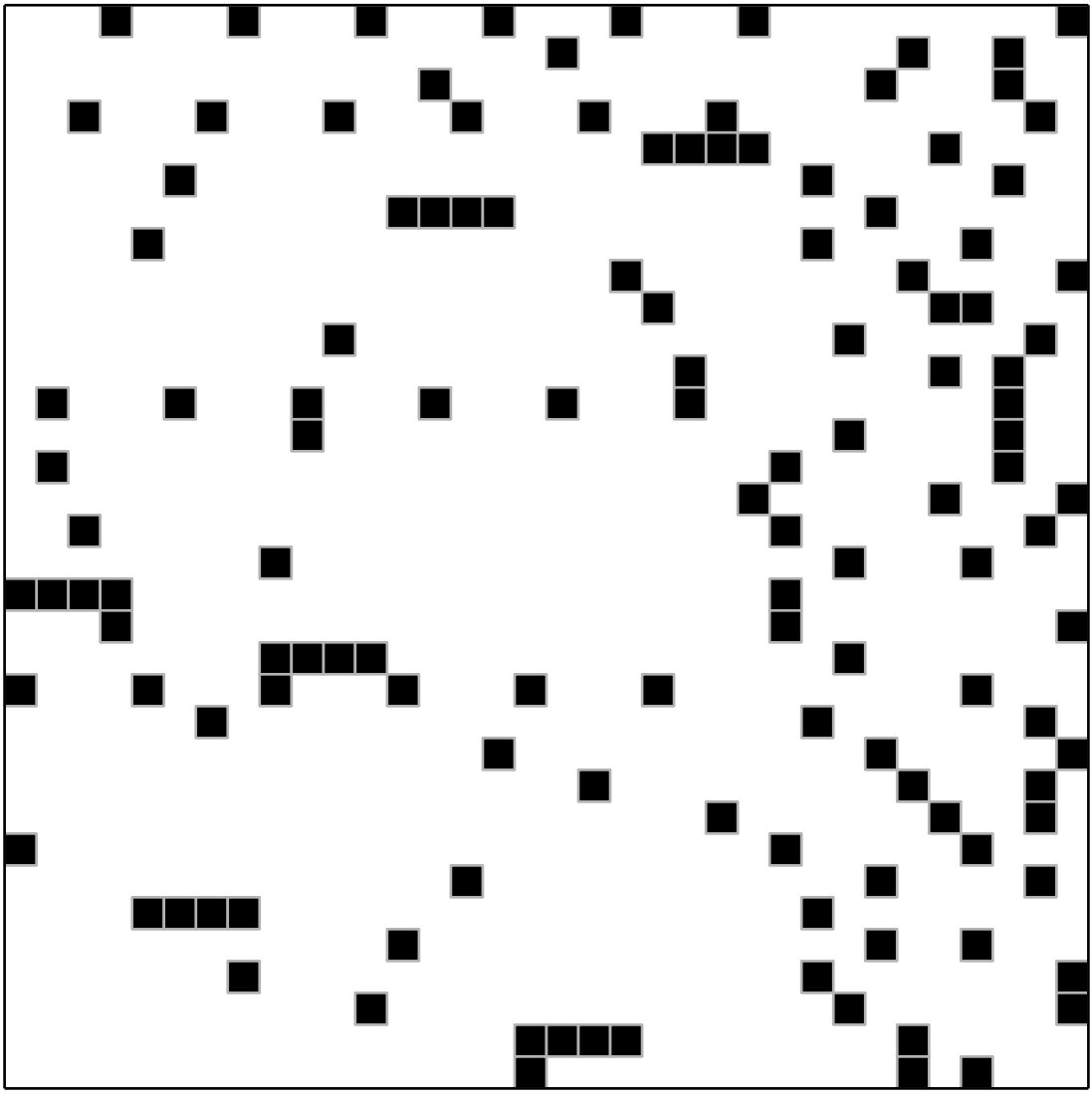
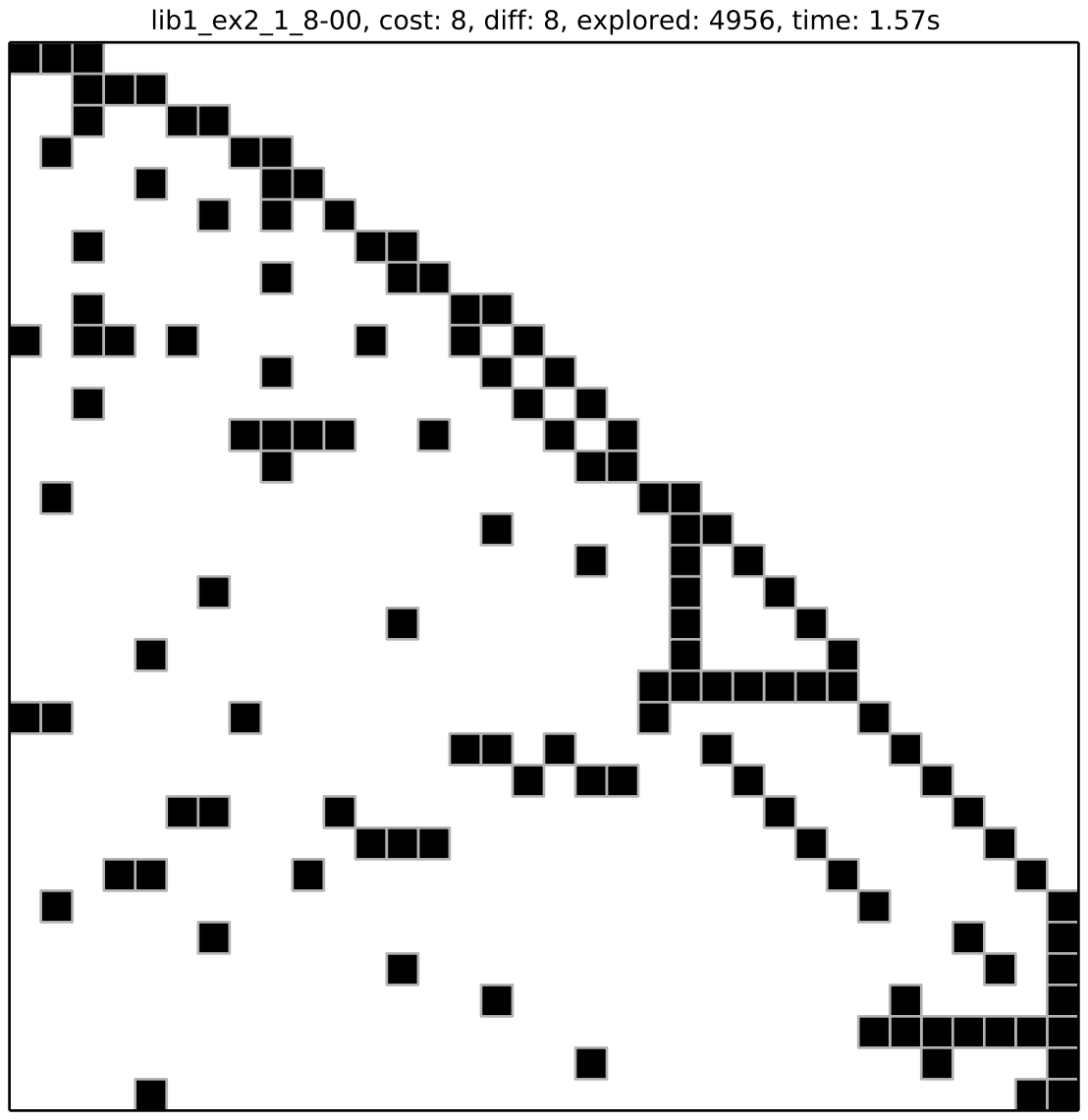
lib1_ex2_1_8-00 34x34 (130) con: 10, var: 24

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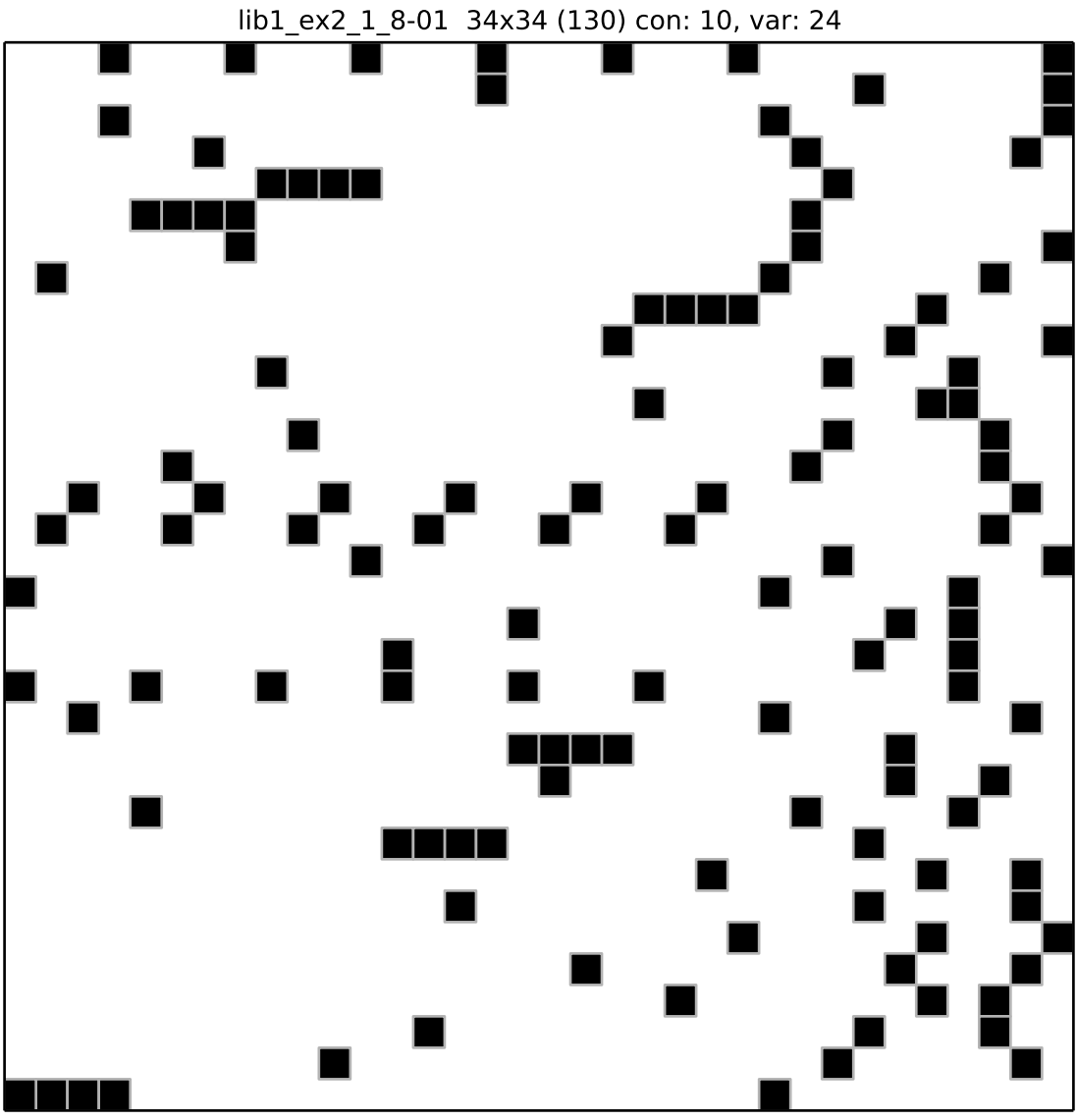
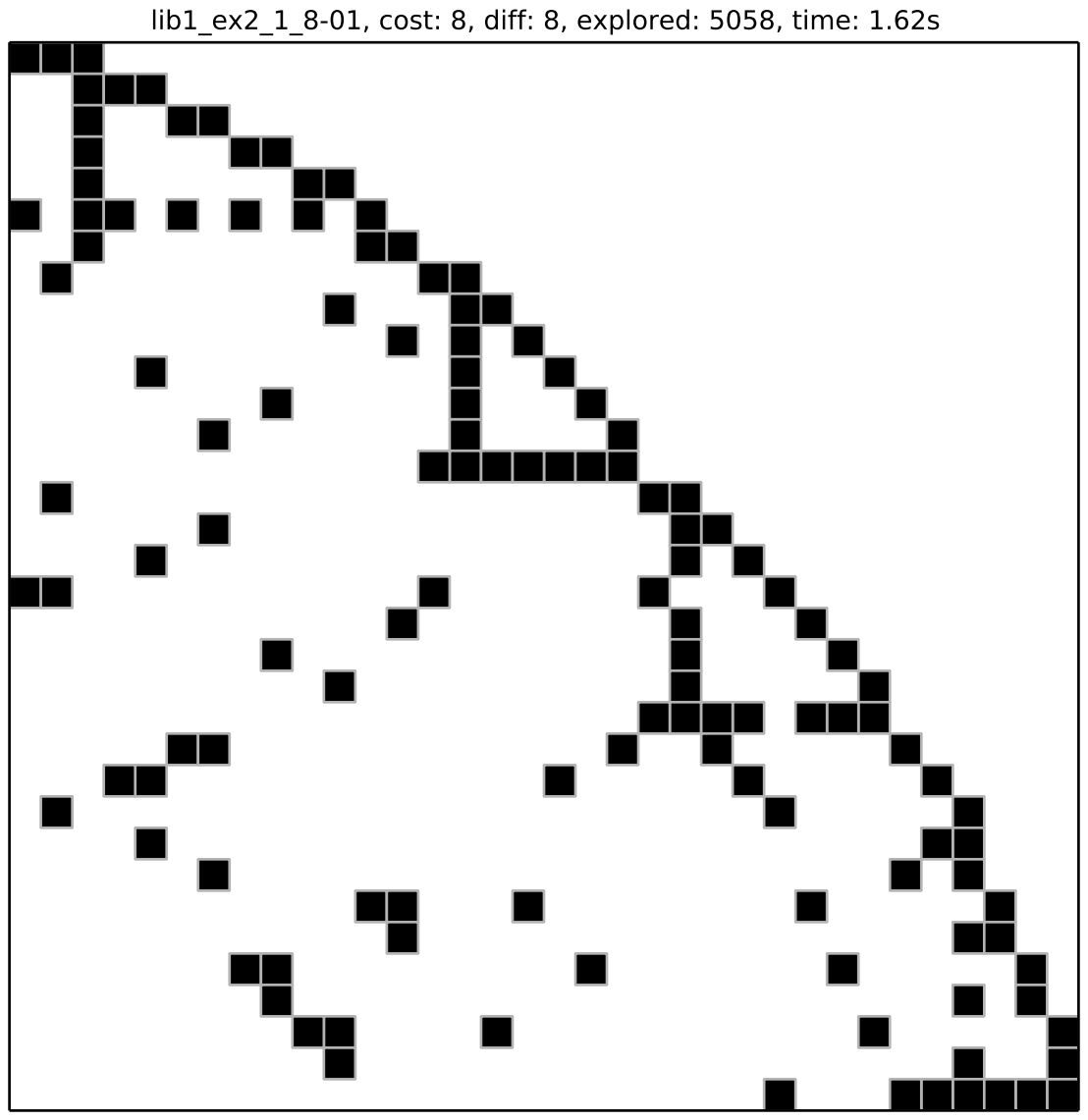
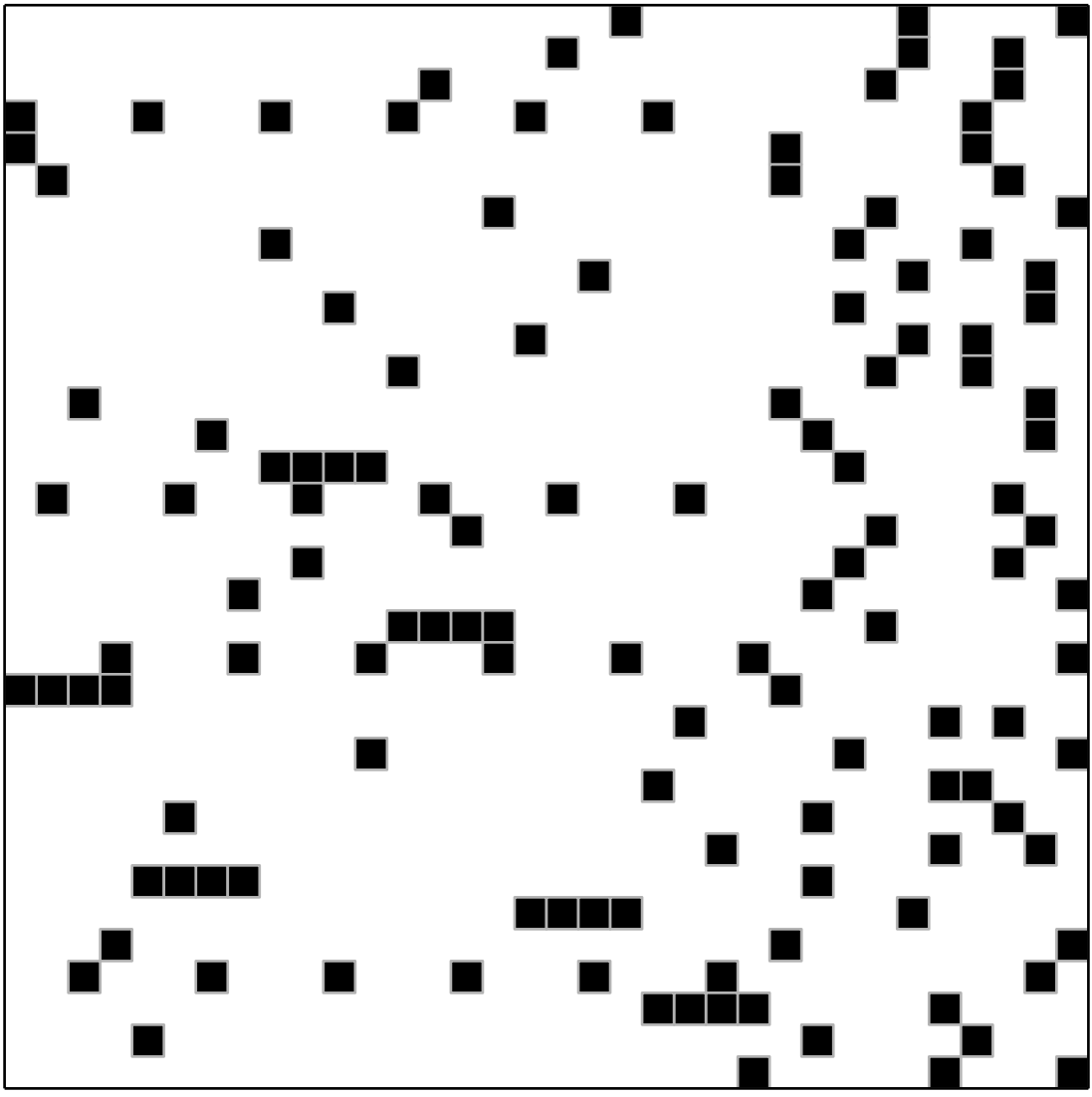
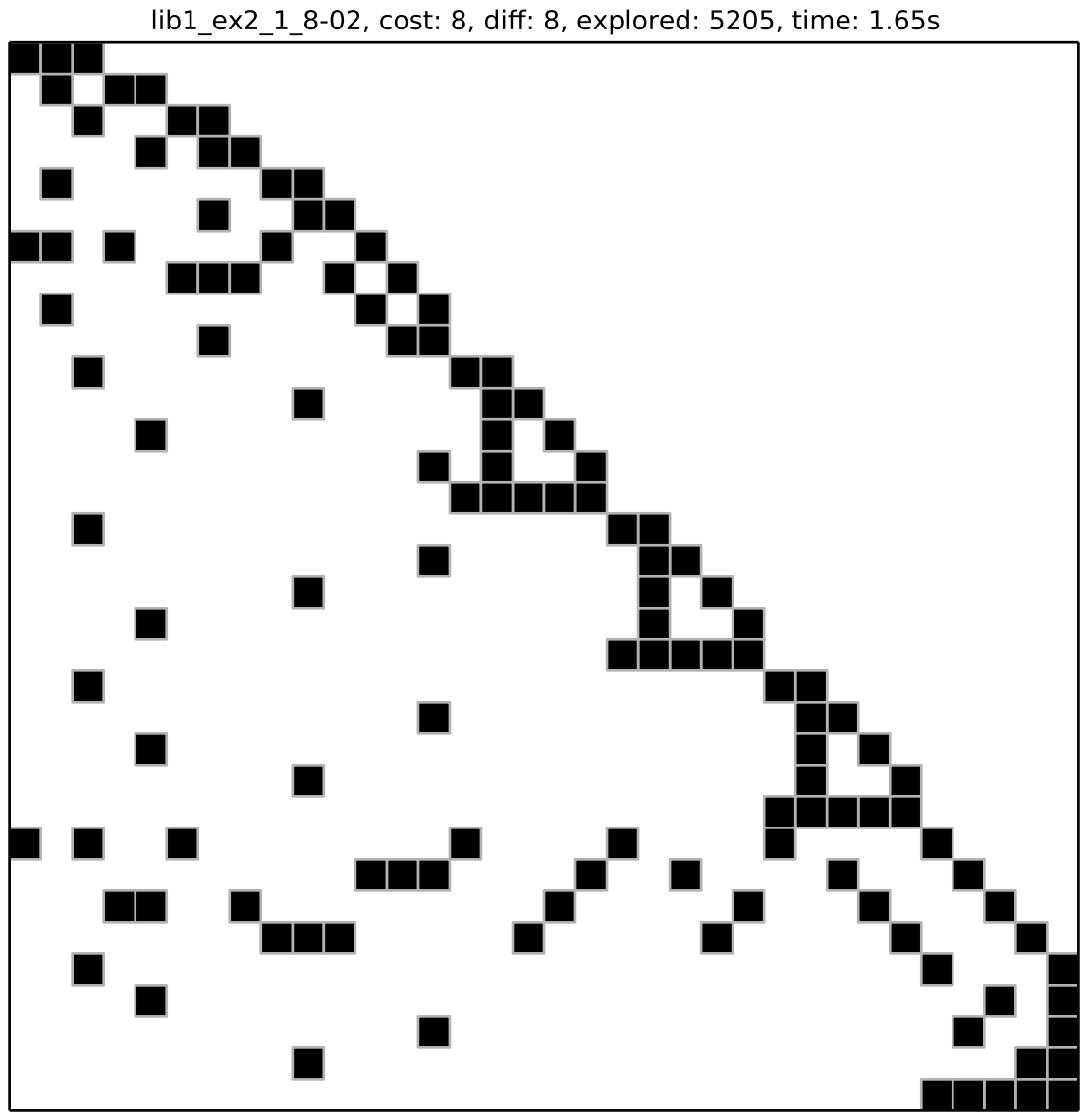

lib1_ex2_1_8-01 34x34 (130) con: 10, var: 24

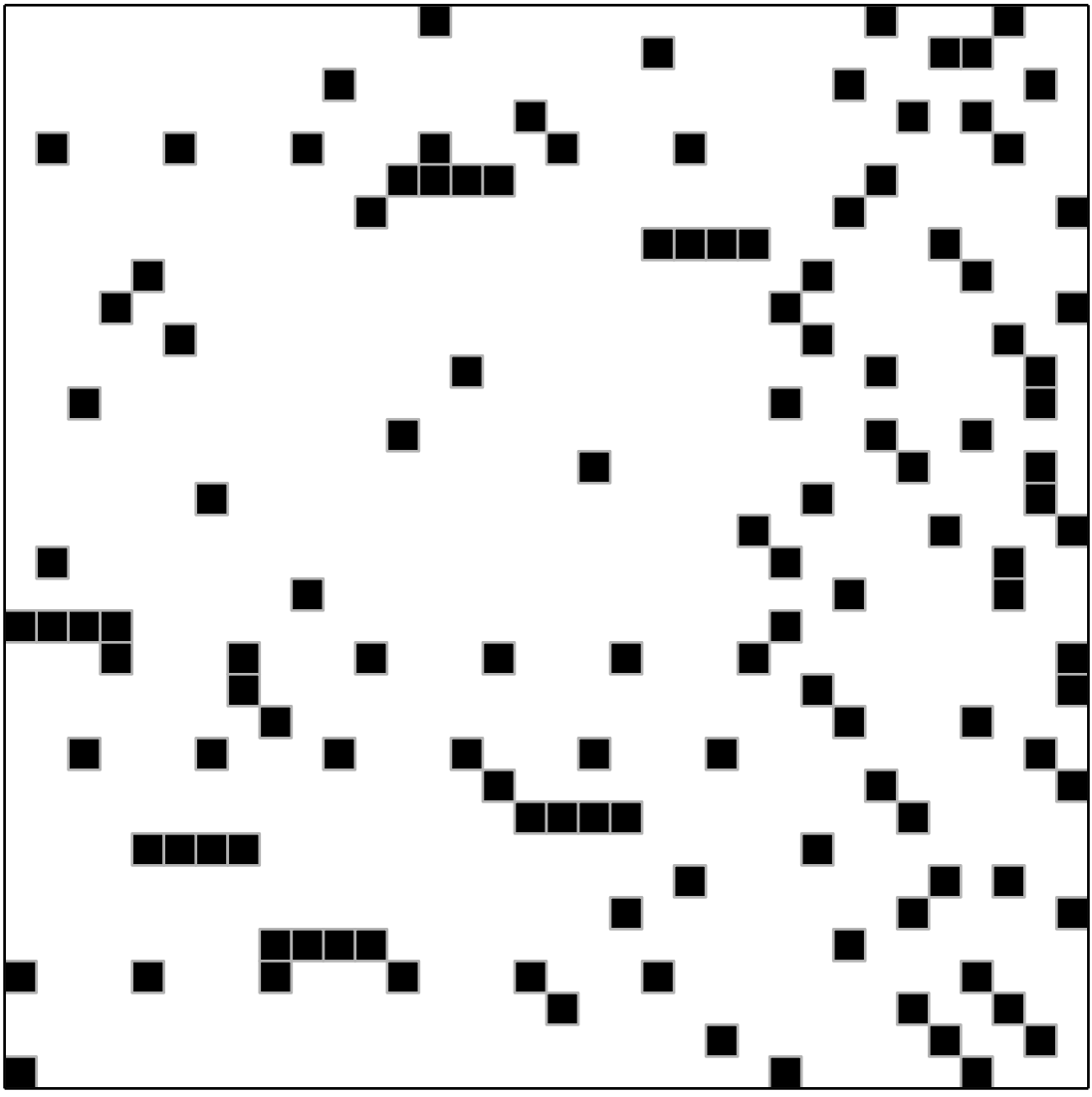

lib1_ex2_1_8-01, cost: 8, diff: 8, explored: 5058, time: 1.62s

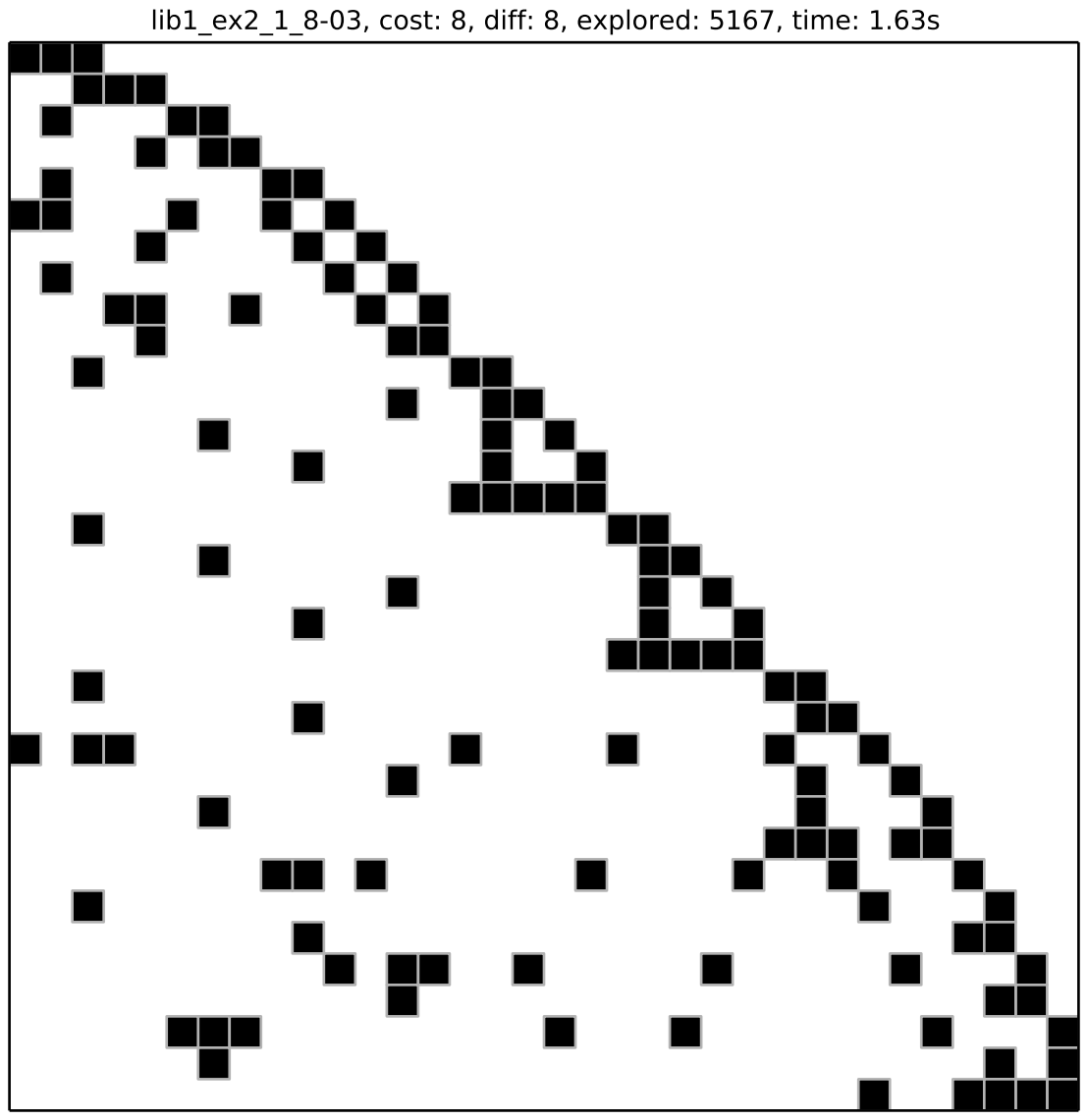
lib1_ex2_1_8-02 34x34 (130) con: 10, var: 24

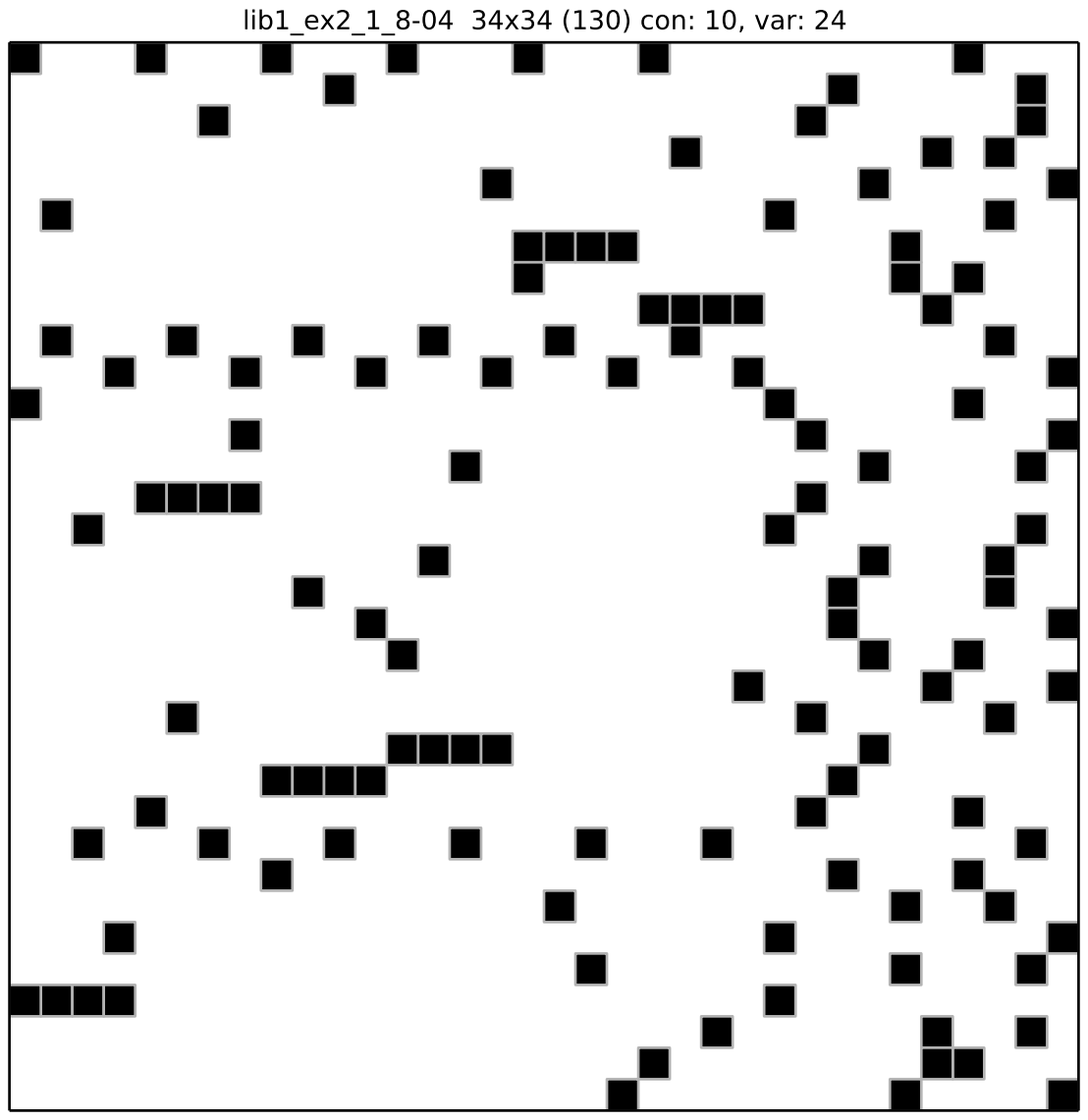


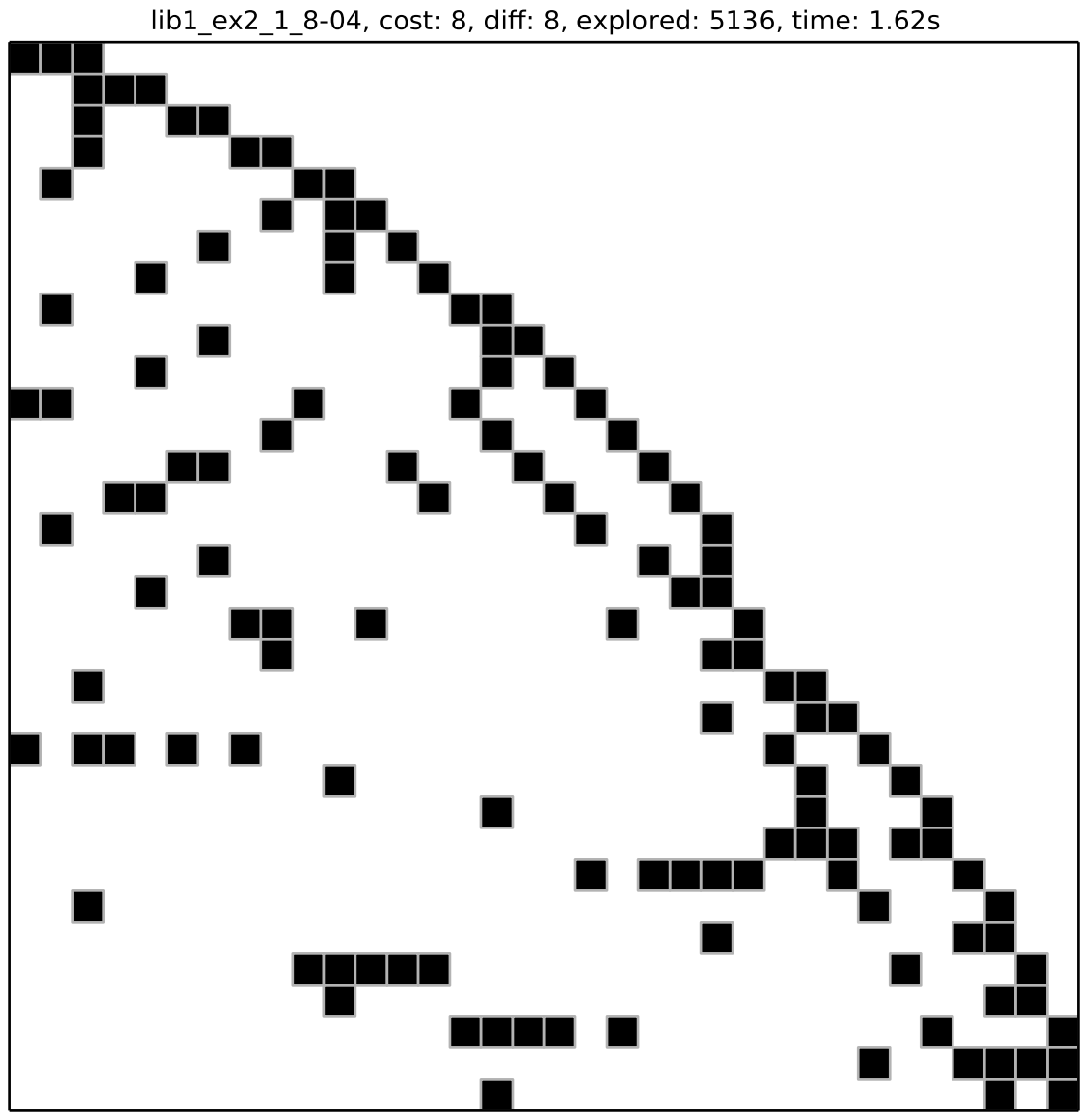

lib1_ex2_1_8-02, cost: 8, diff: 8, explored: 5205, time: 1.65s

lib1_ex2_1_8-03 34x34 (130) con: 10, var: 24

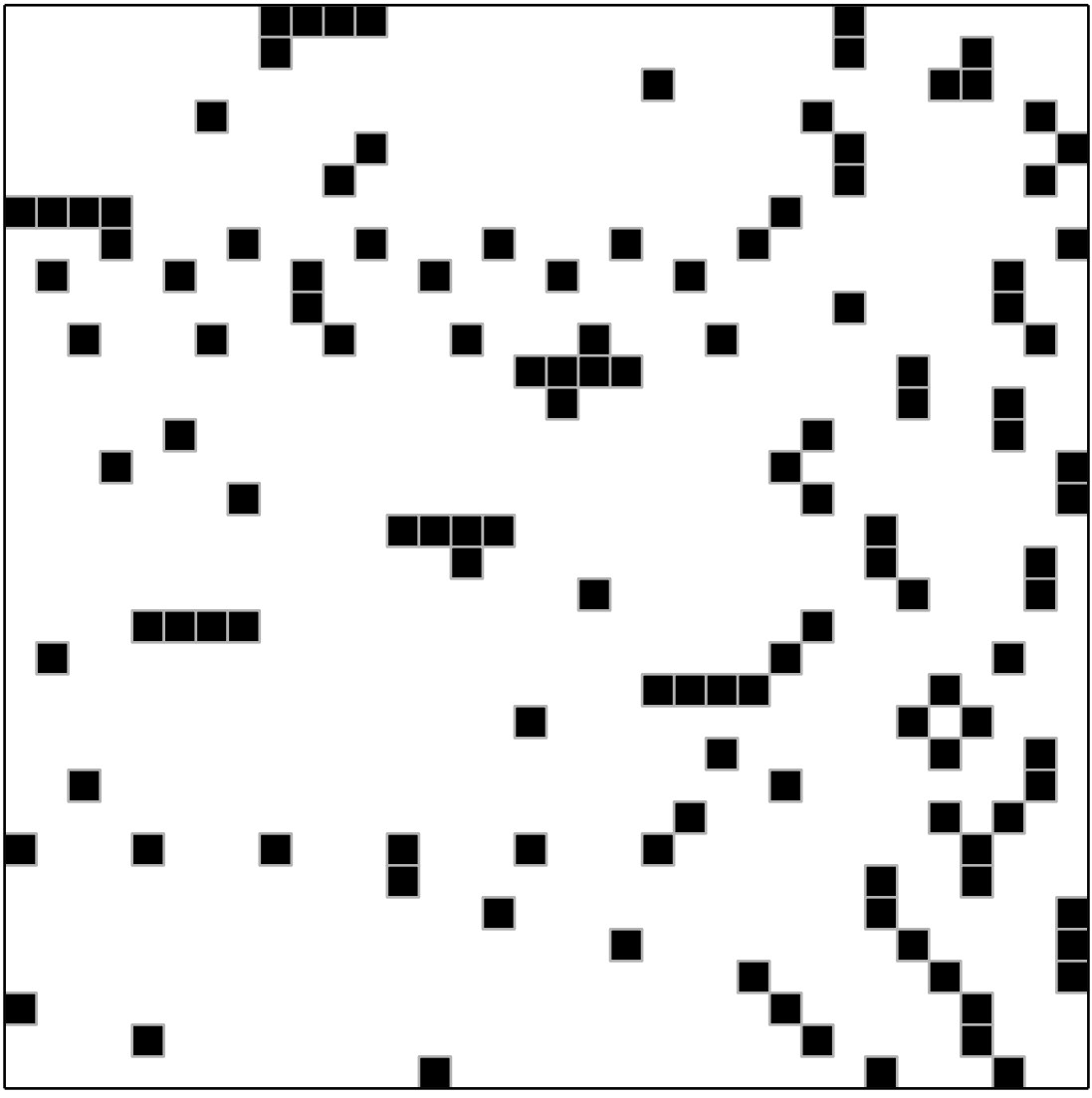


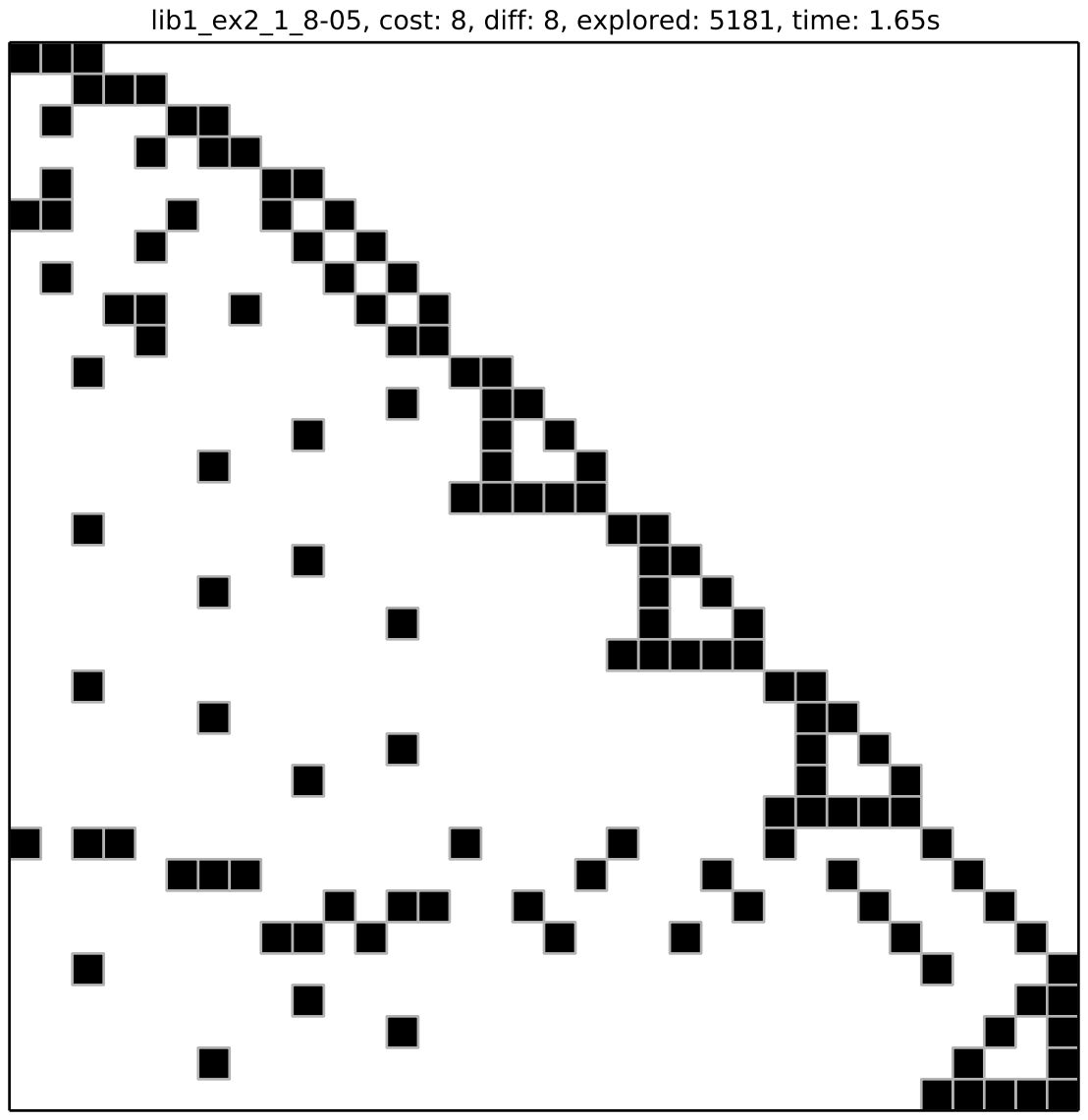

lib1_ex2_1_8-03, cost: 8, diff: 8, explored: 5167, time: 1.63s

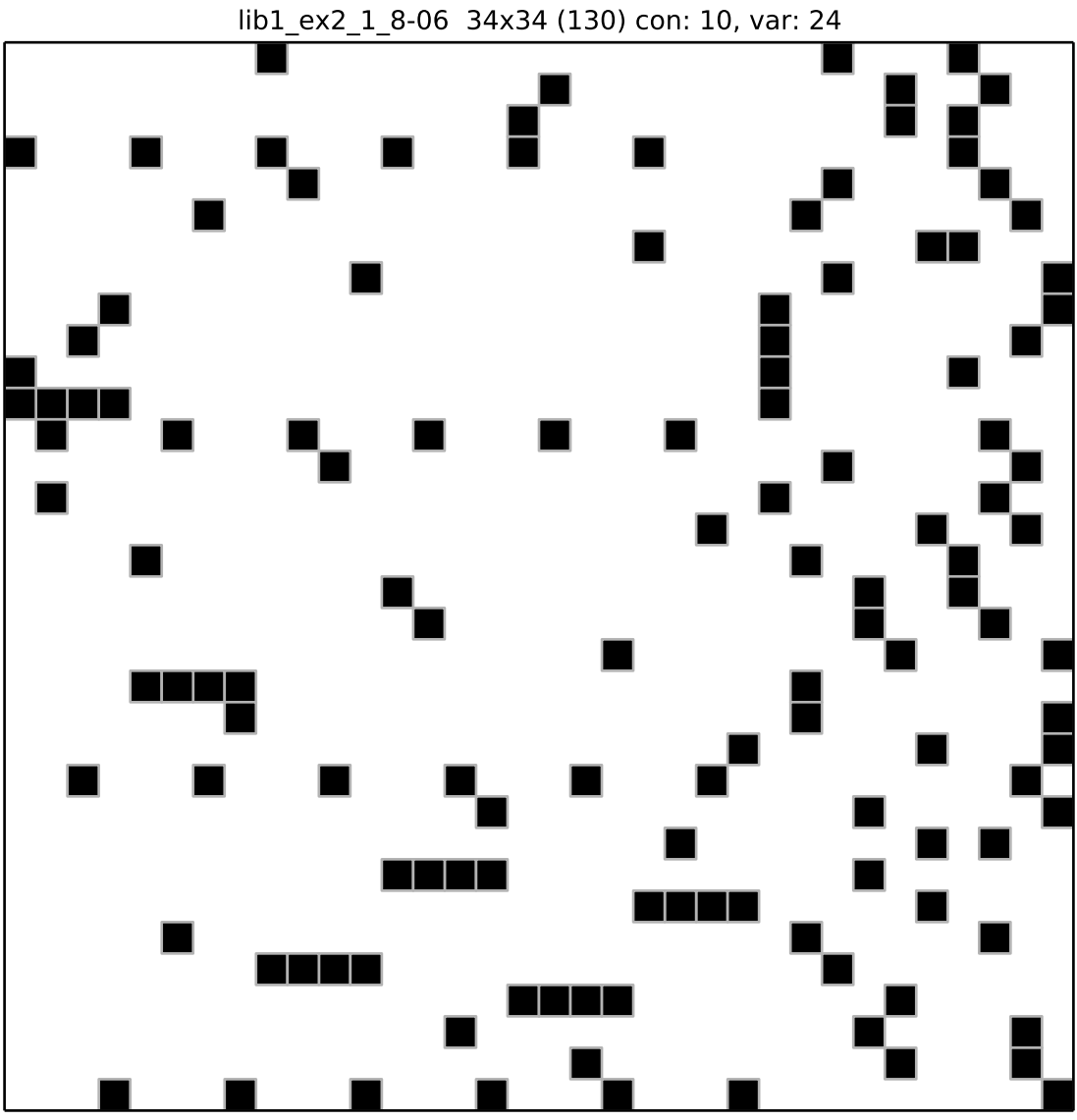

lib1_ex2_1_8-04 34x34 (130) con: 10, var: 24

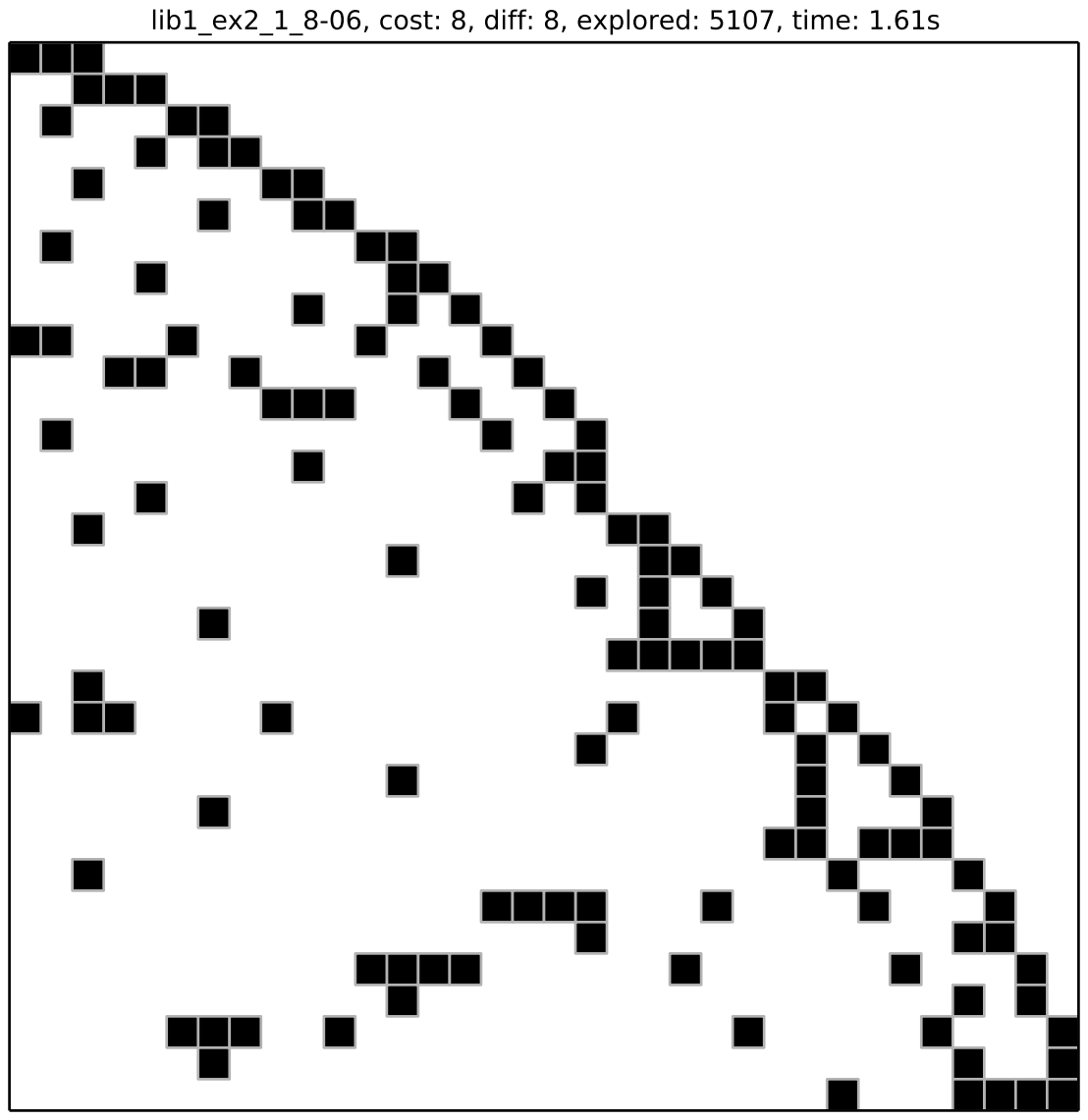

lib1_ex2_1_8-04, cost: 8, diff: 8, explored: 5136, time: 1.62s

lib1_ex2_1_8-05 34x34 (130) con: 10, var: 24

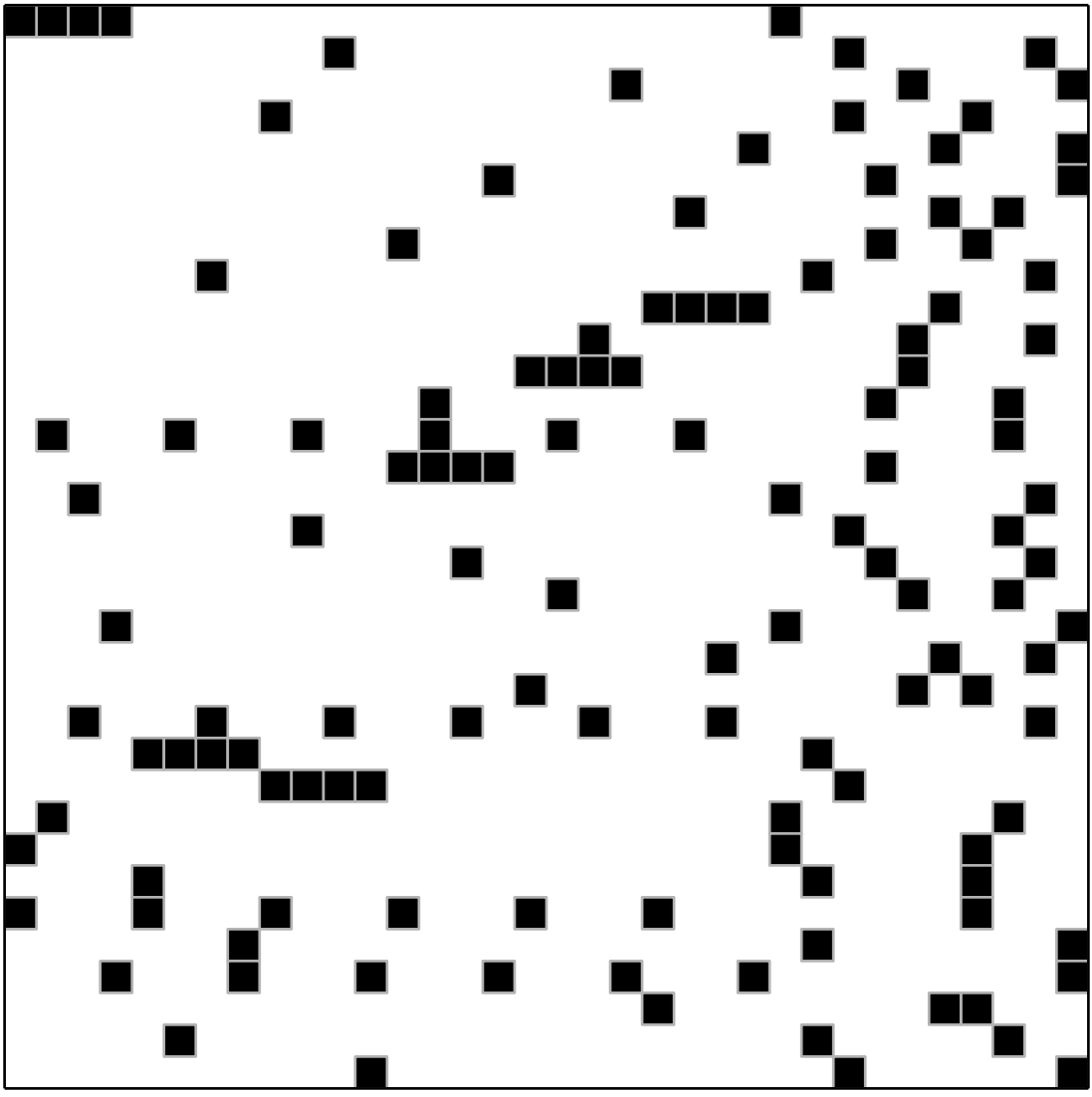


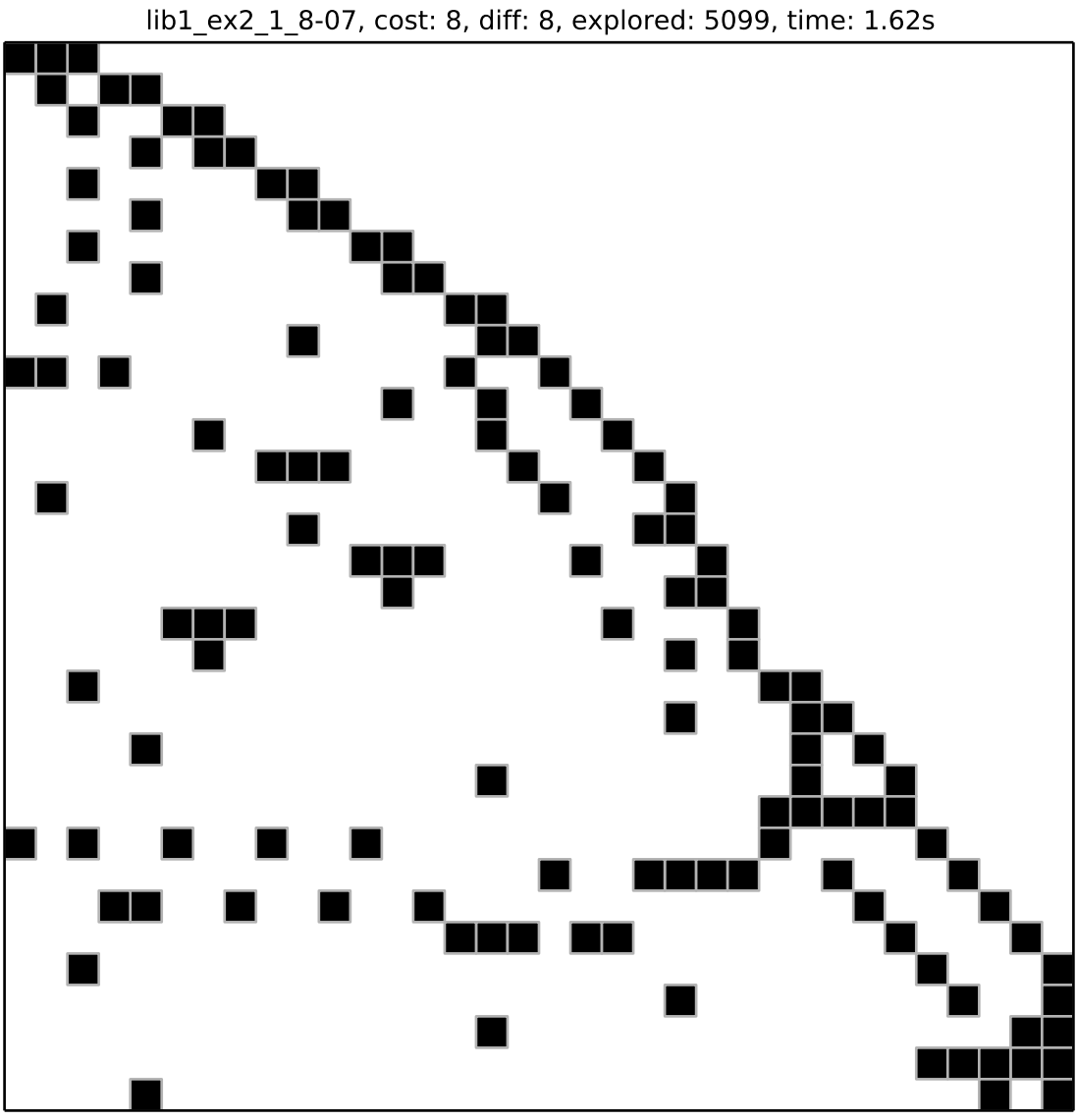

lib1_ex2_1_8-05, cost: 8, diff: 8, explored: 5181, time: 1.65s

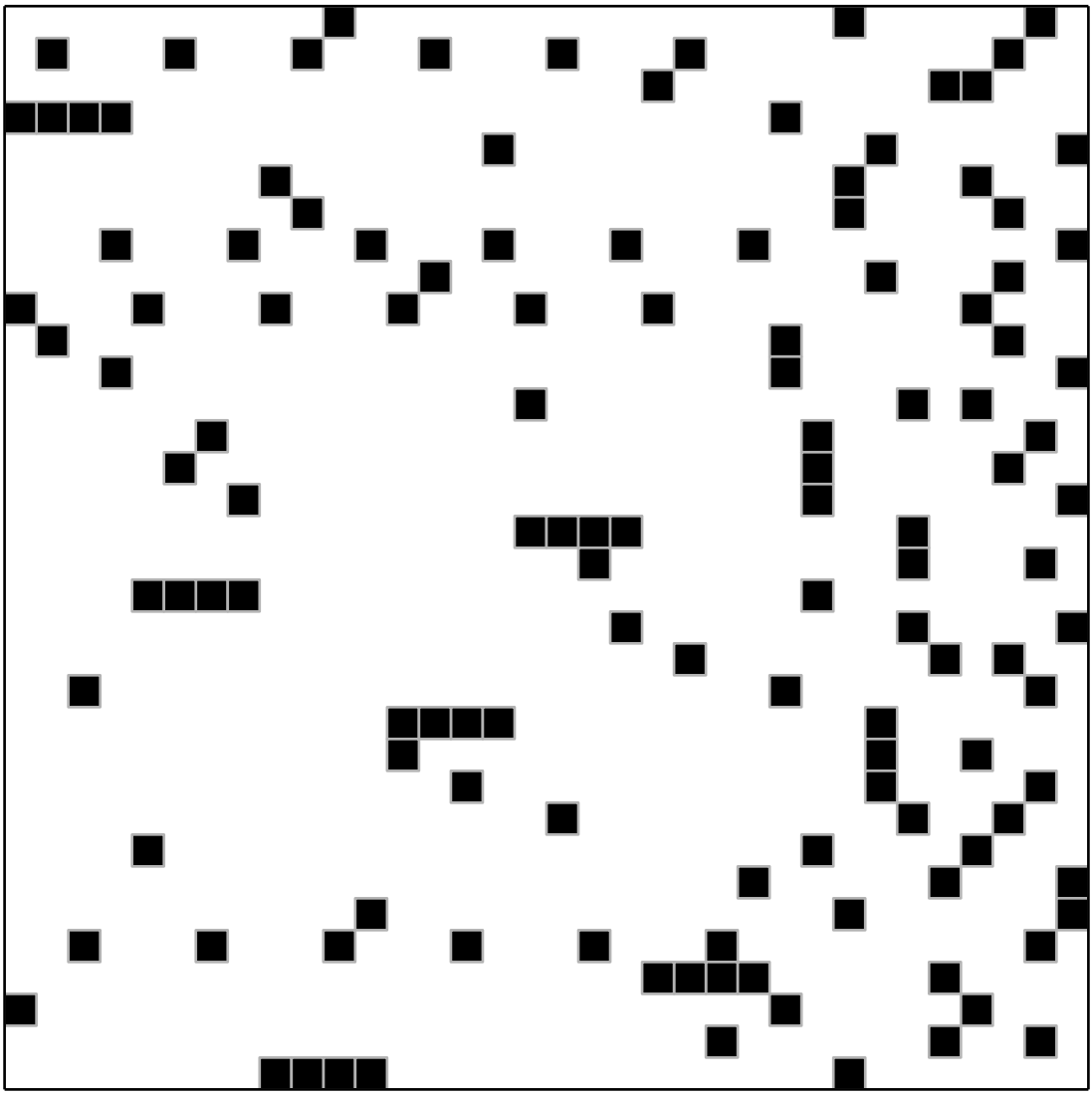

lib1_ex2_1_8-06 34x34 (130) con: 10, var: 24

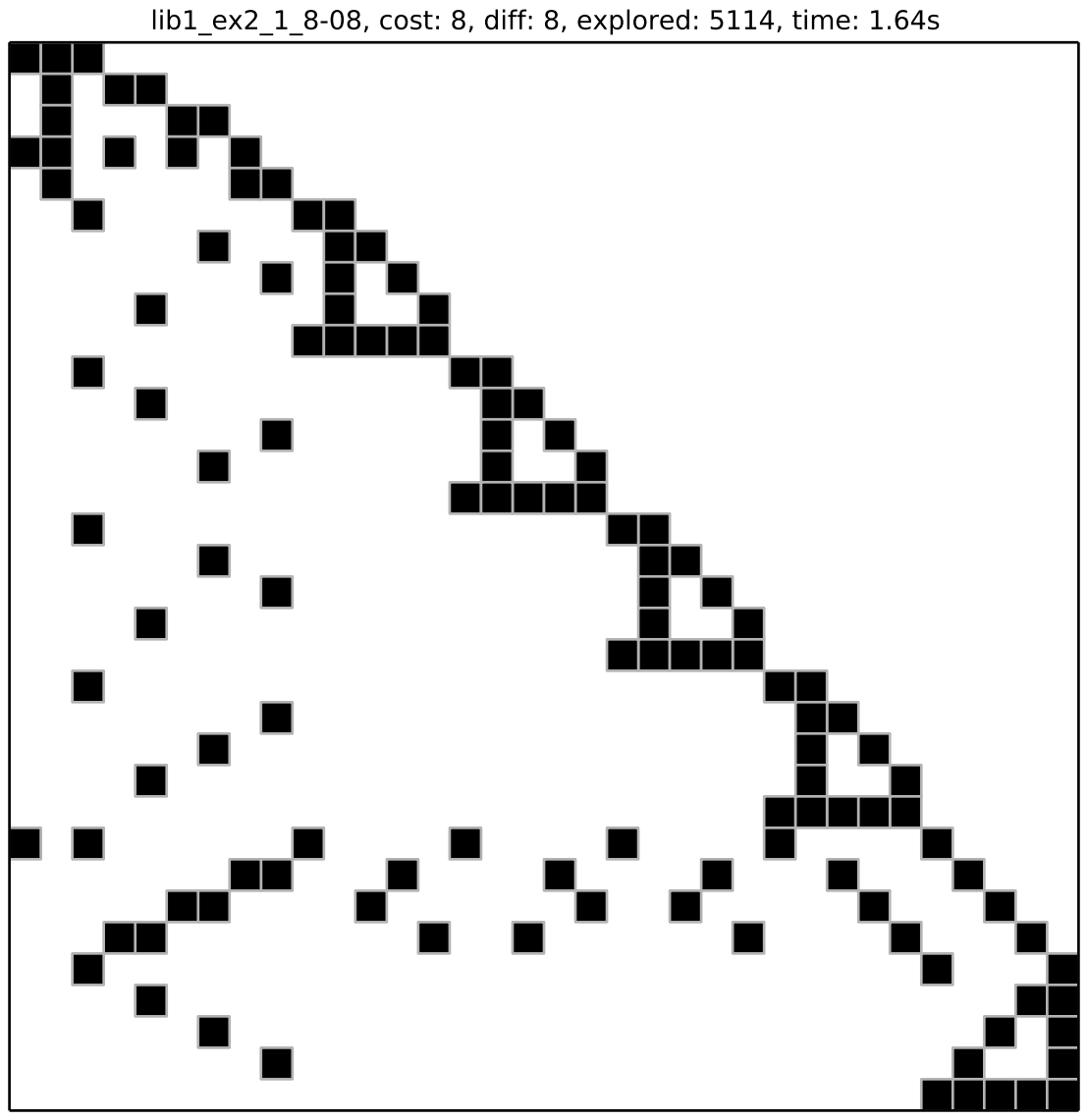

lib1_ex2_1_8-06, cost: 8, diff: 8, explored: 5107, time: 1.61s

lib1_ex2_1_8-07 34x34 (130) con: 10, var: 24

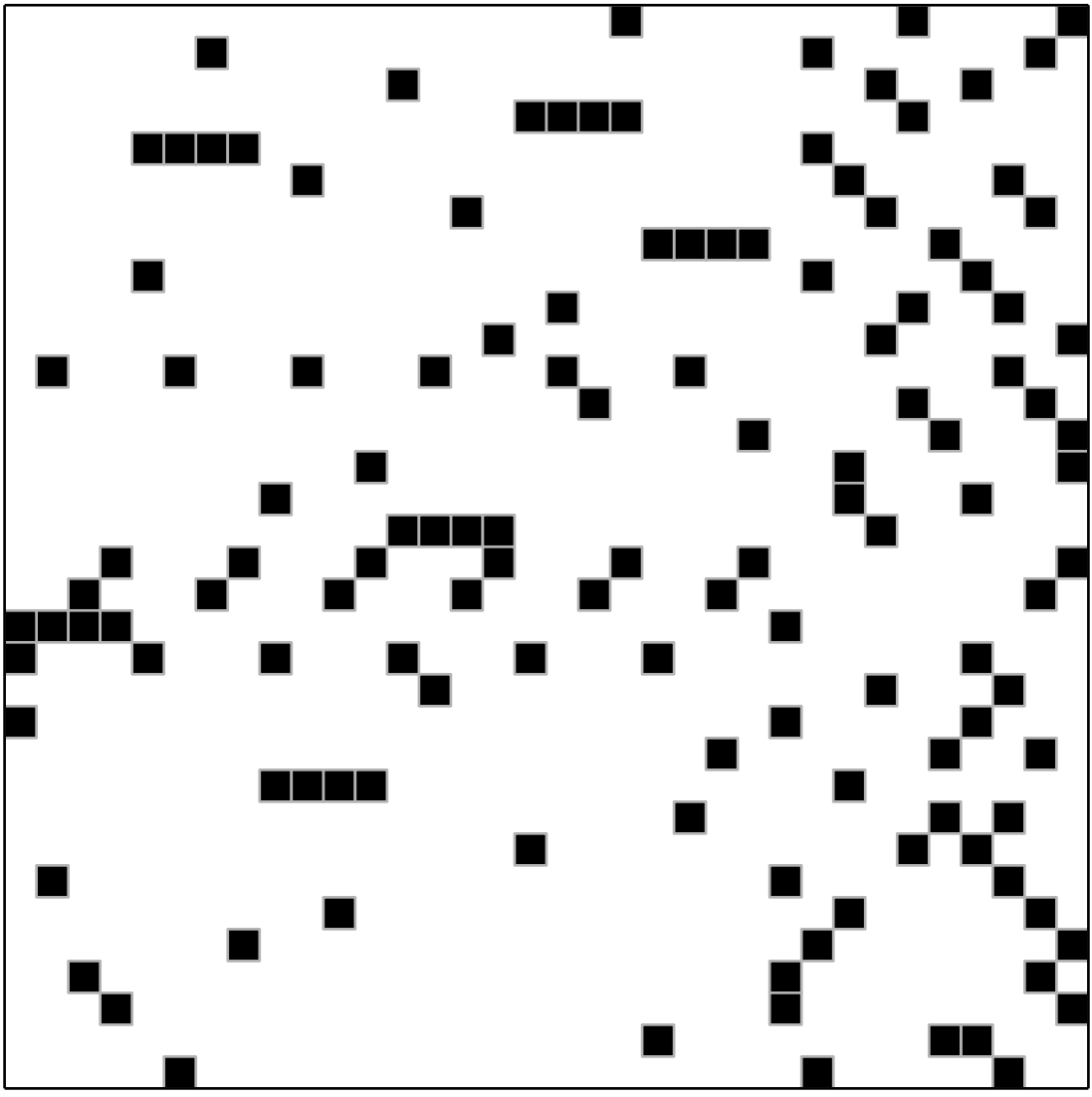


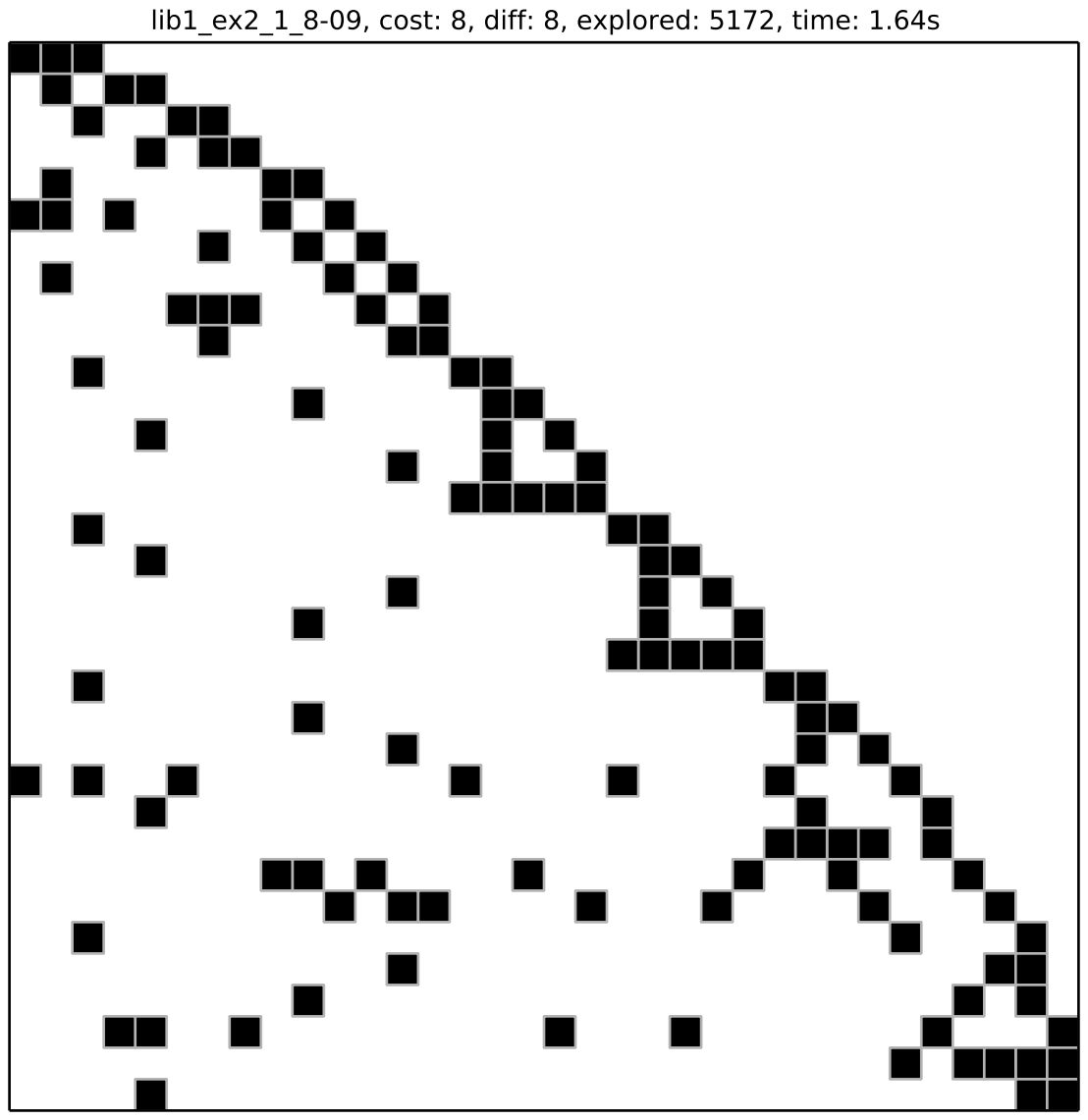

lib1_ex2_1_8-07, cost: 8, diff: 8, explored: 5099, time: 1.62s


lib1_ex2_1_8-08 34x34 (130) con: 10, var: 24


lib1_ex2_1_8-08, cost: 8, diff: 8, explored: 5114, time: 1.64s

lib1_ex2_1_8-09 34x34 (130) con: 10, var: 24

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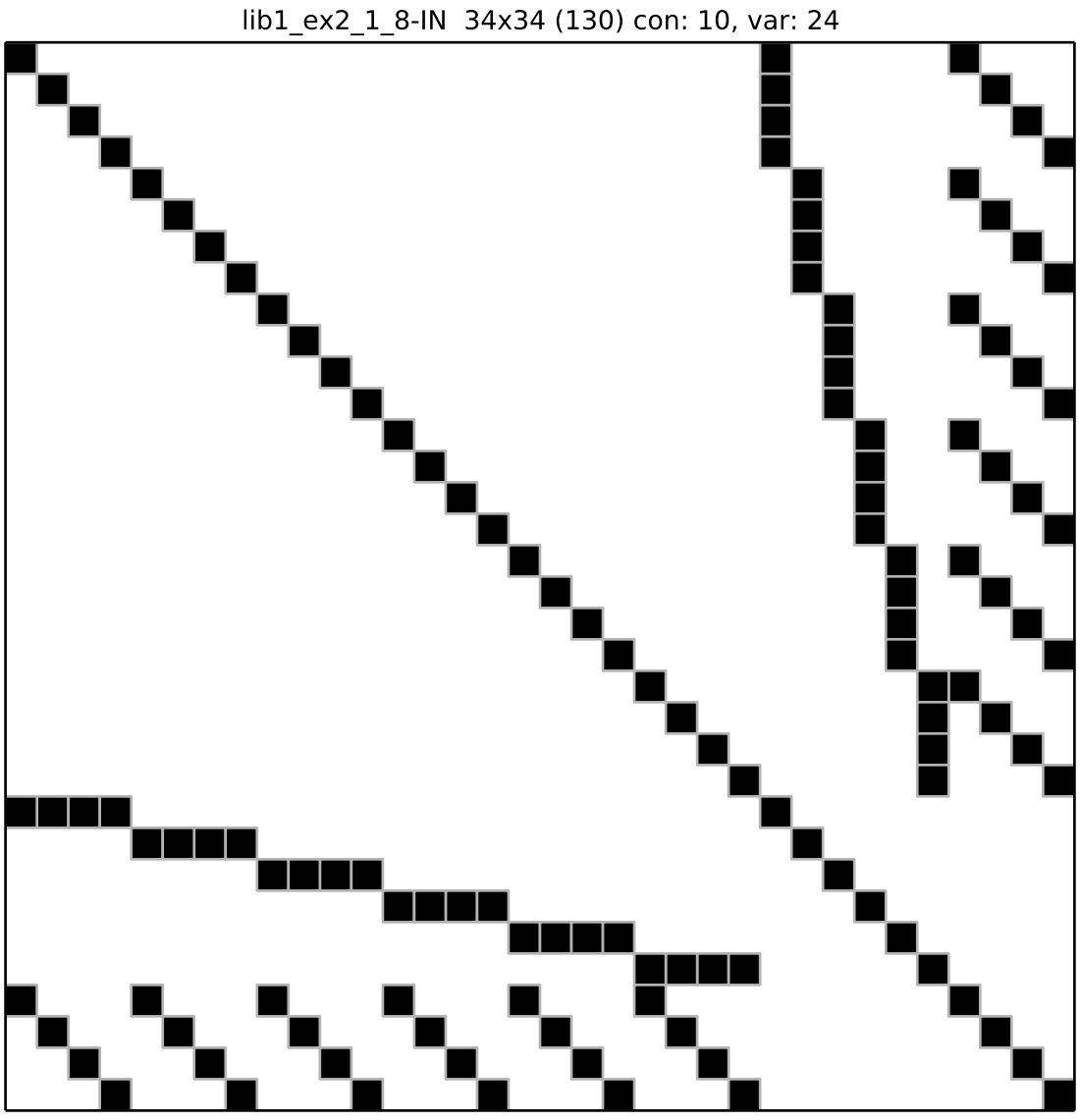
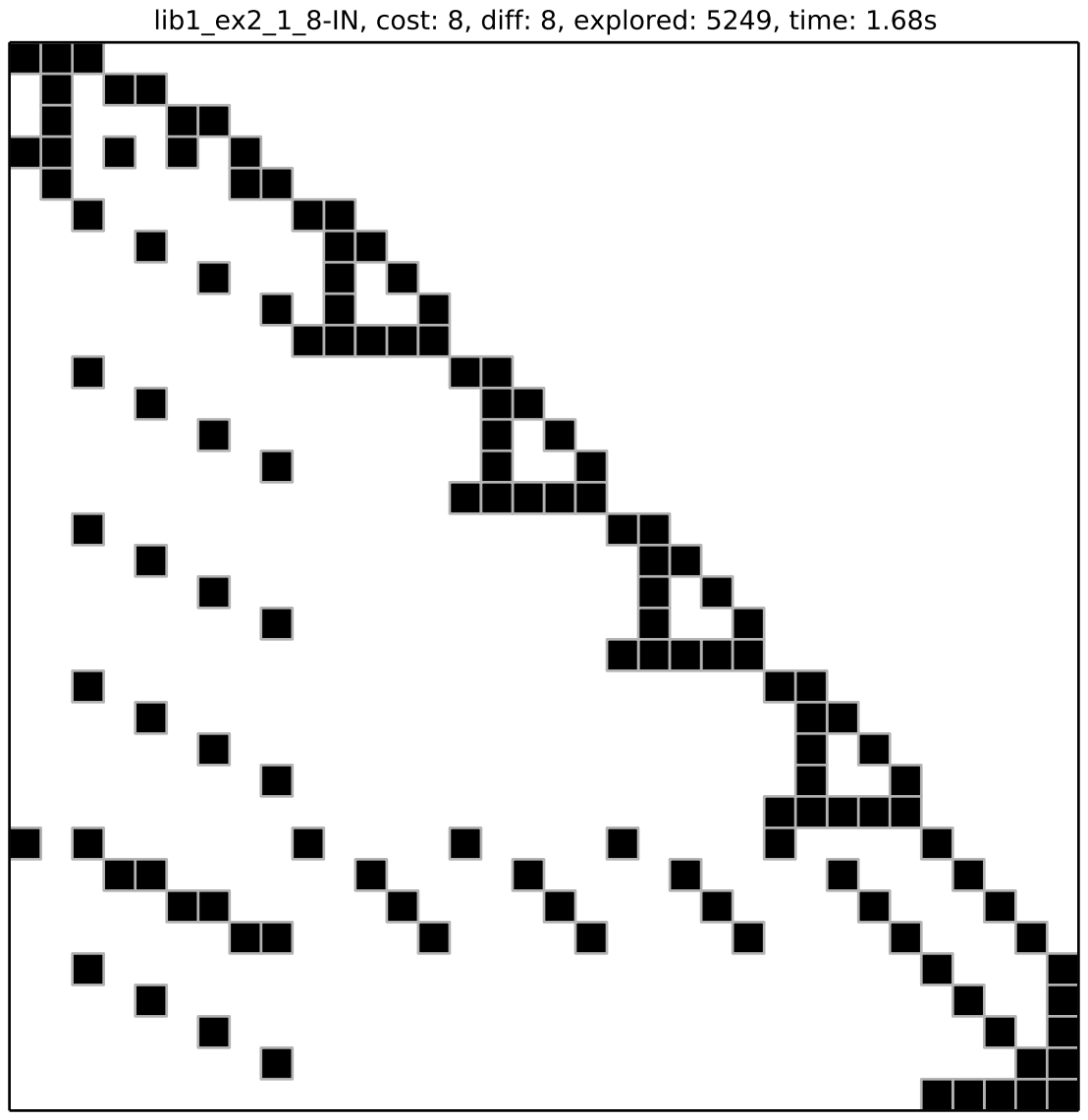
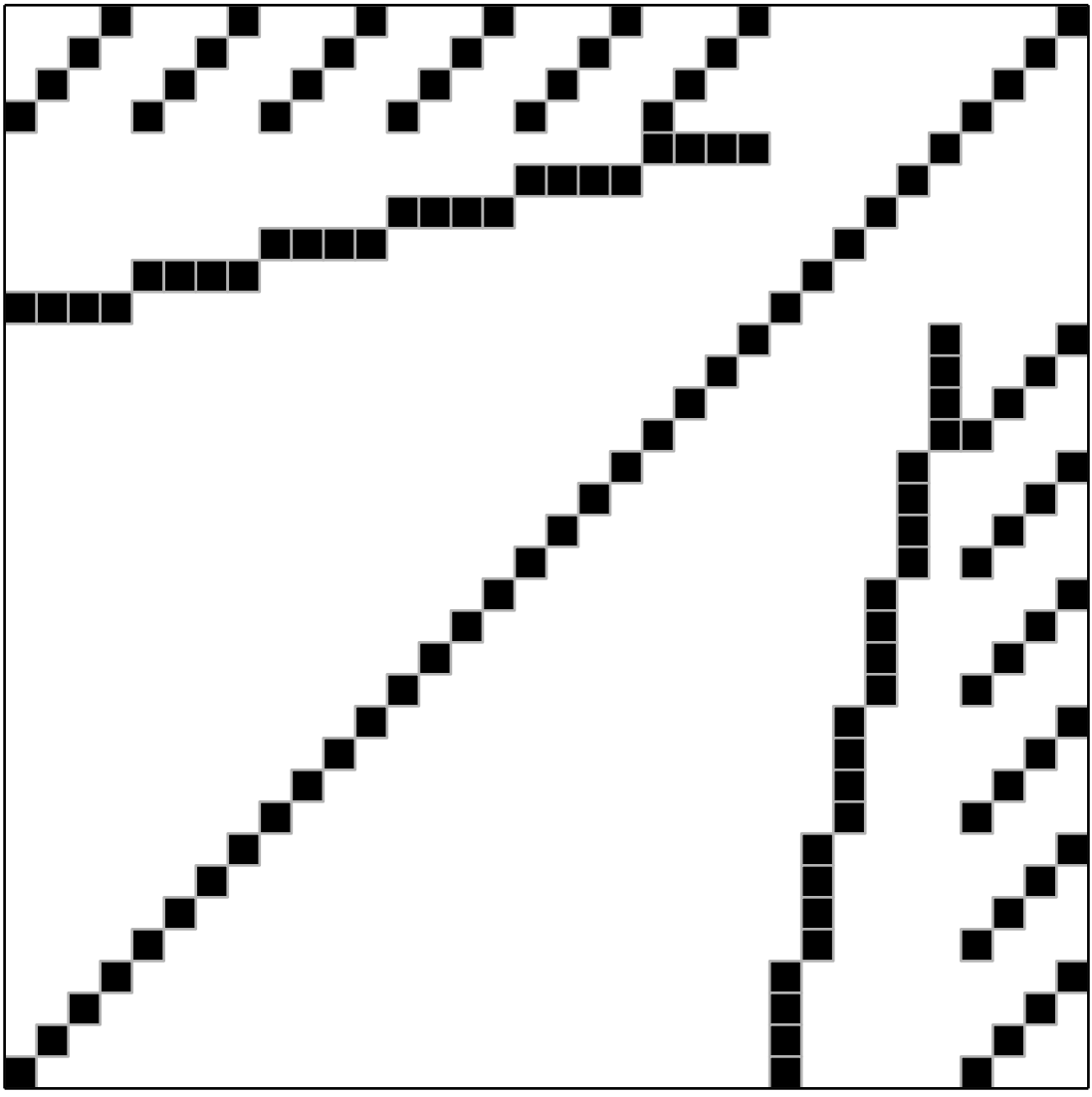
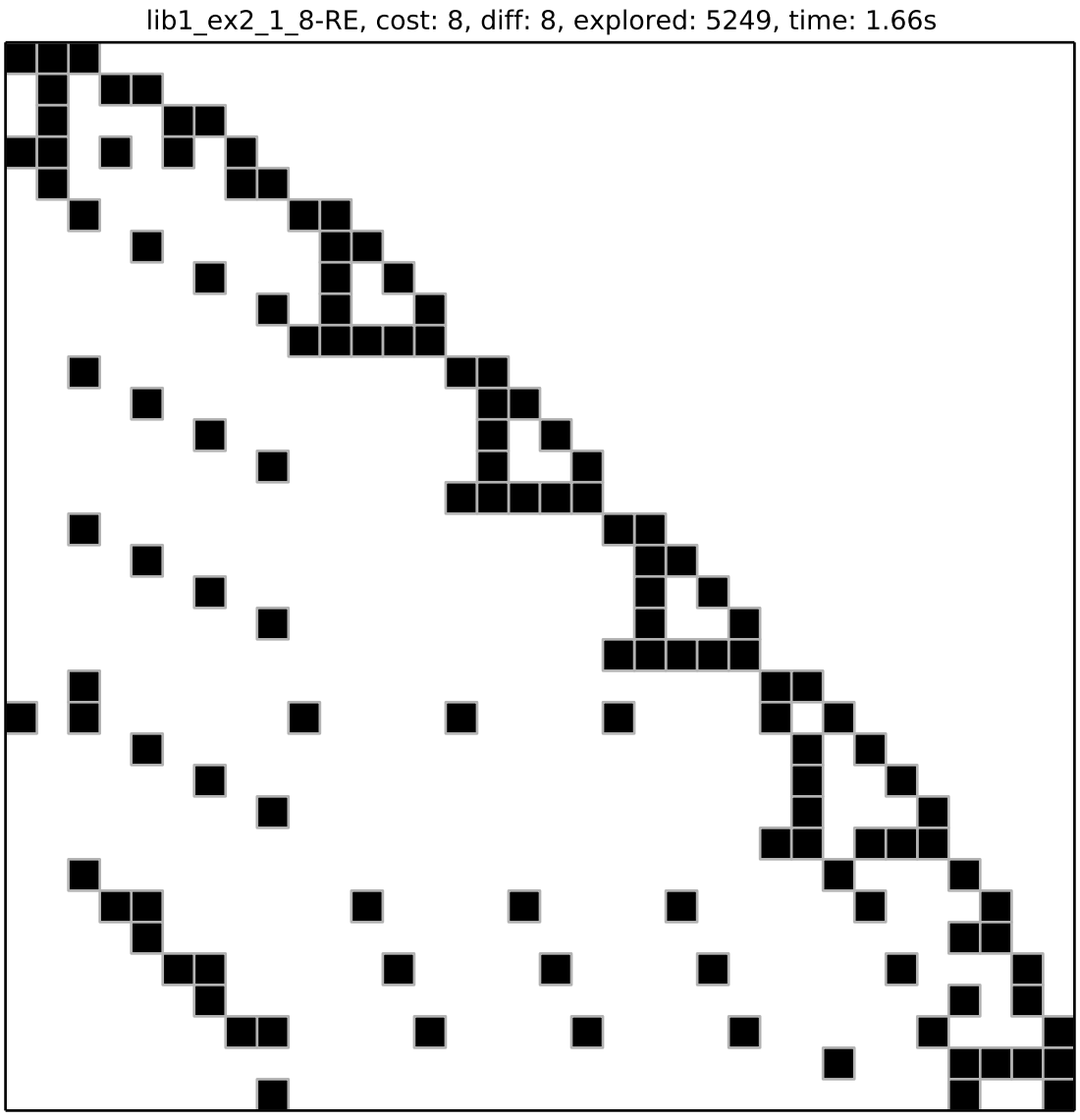

lib1_ex2_1_8-IN 34x34 (130) con: 10, var: 24

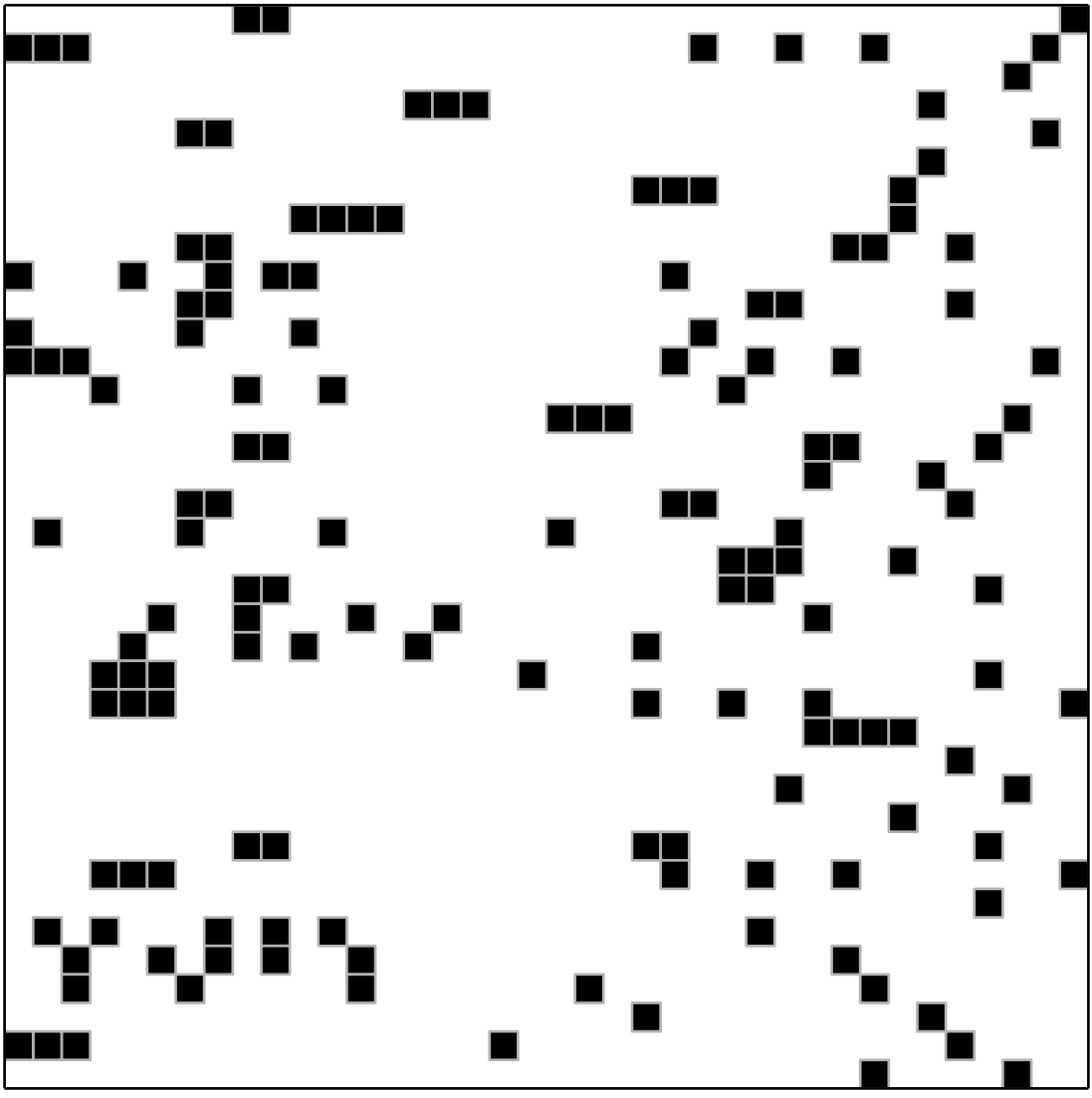

lib1_ex2_1_8-IN, cost: 8, diff: 8, explored: 5249, time: 1.68s

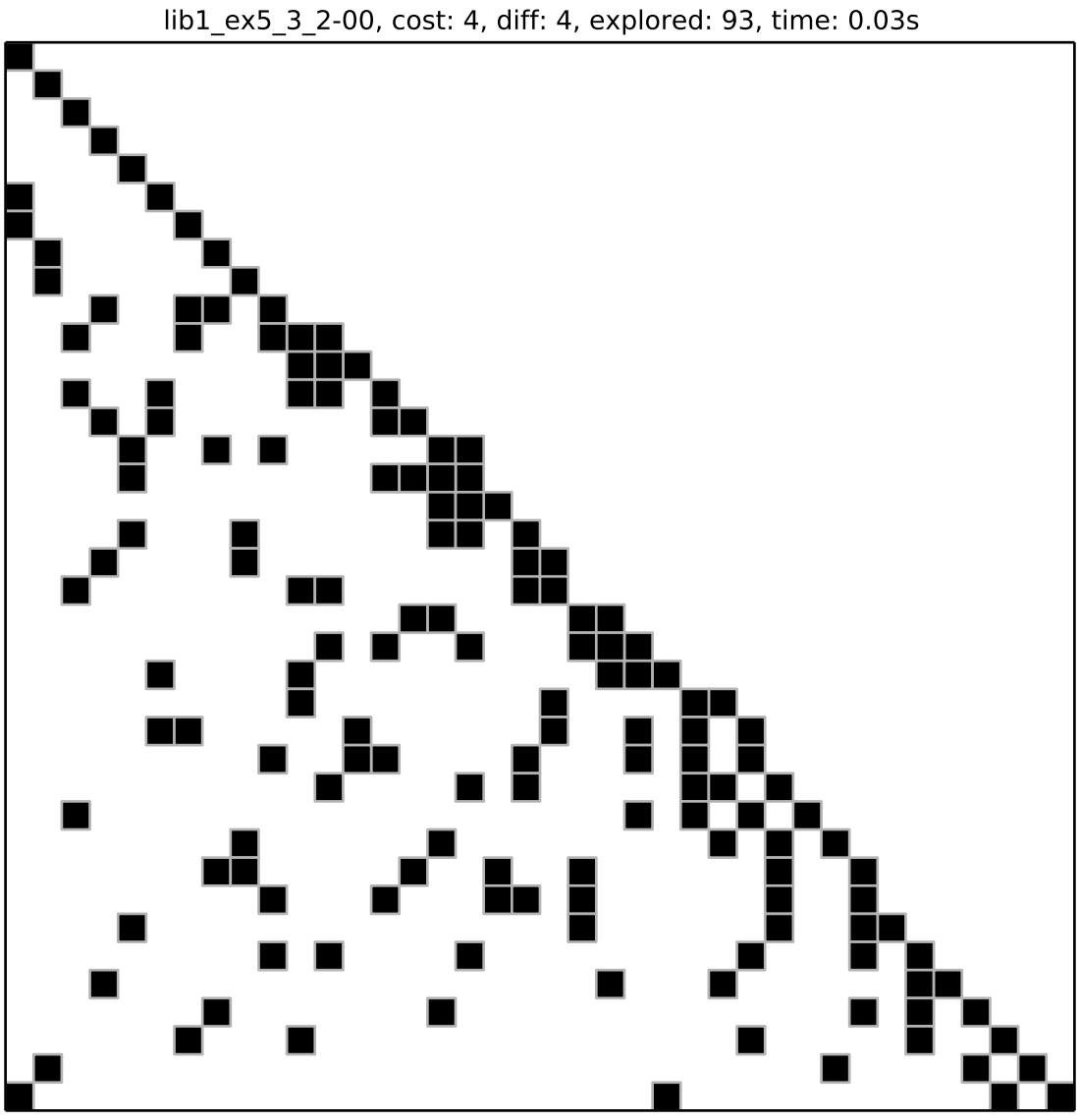
lib1_ex2_1_8-RE 34x34 (130) con: 10, var: 24

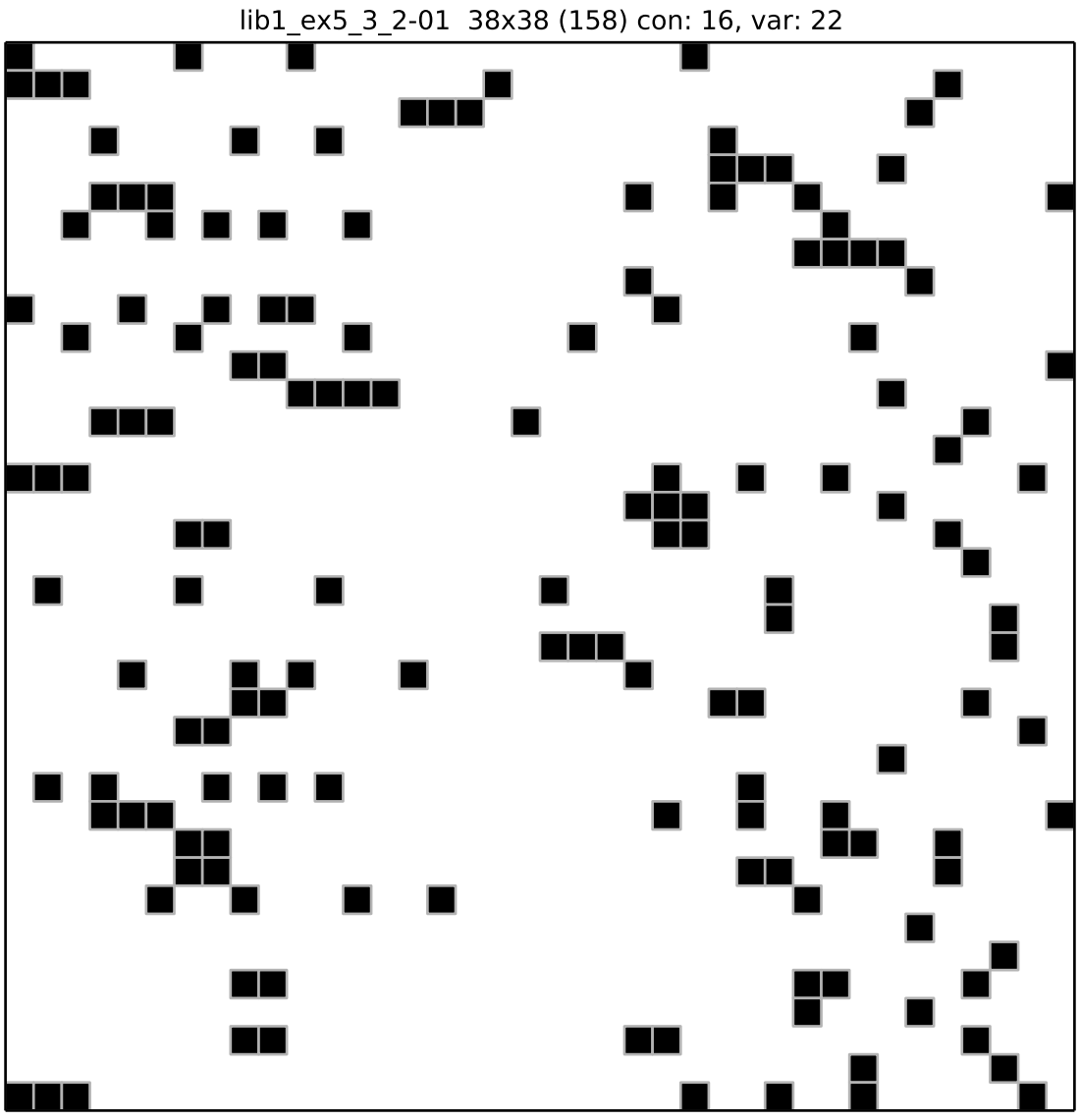


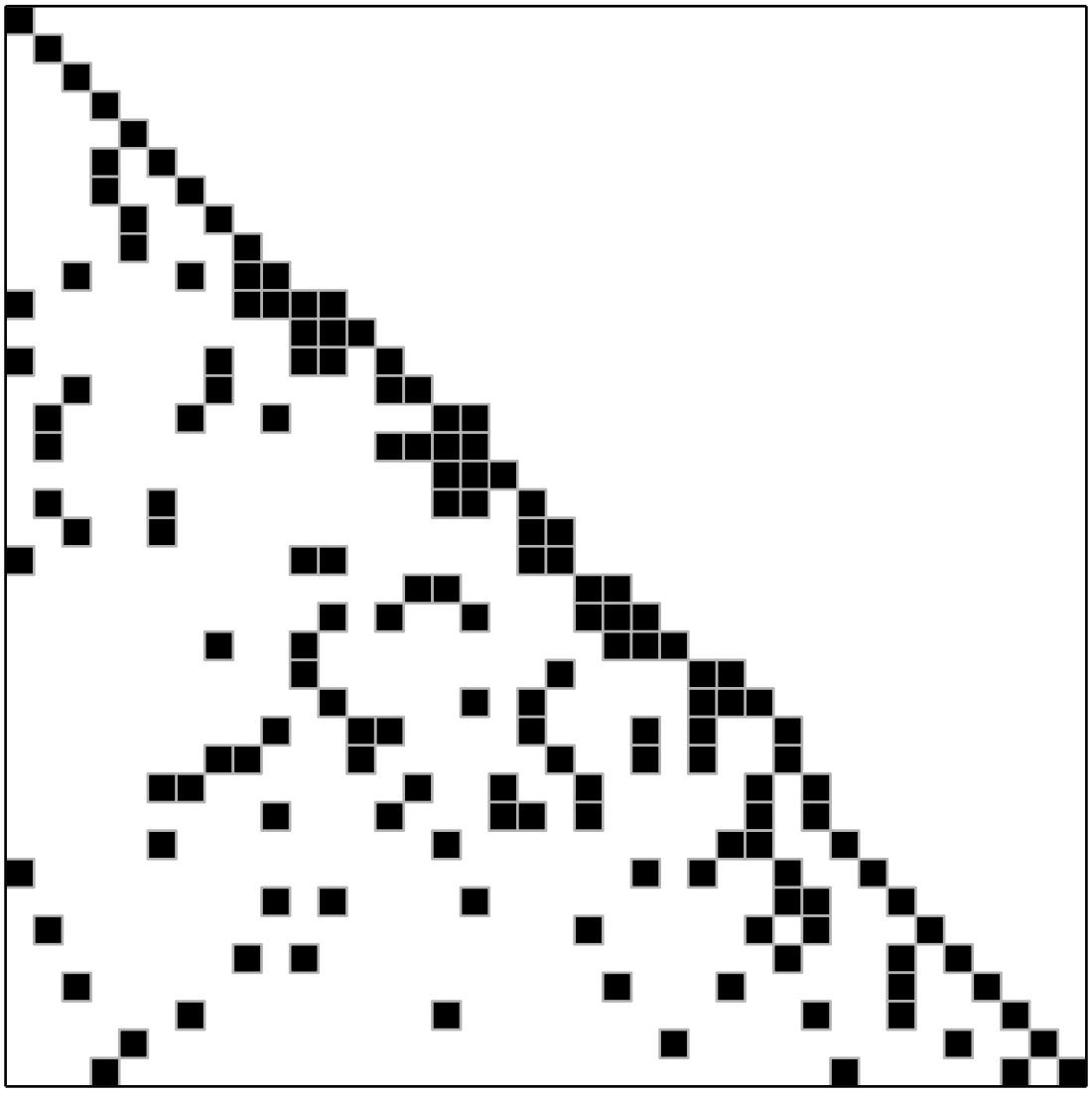

lib1_ex2_1_8-RE, cost: 8, diff: 8, explored: 5249, time: 1.66s

lib1_ex5_3_2-00 38x38 (158) con: 16, var: 22

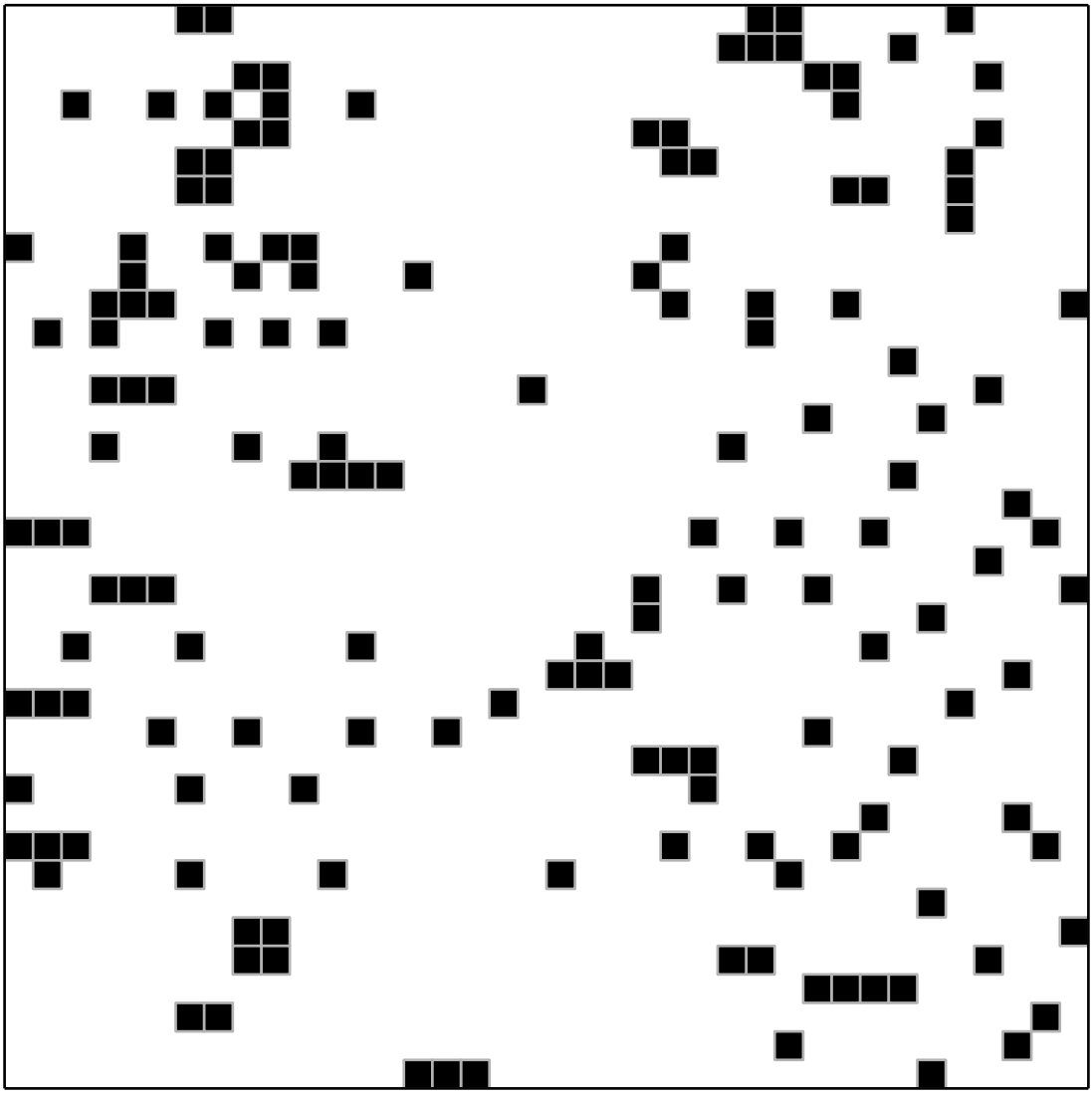


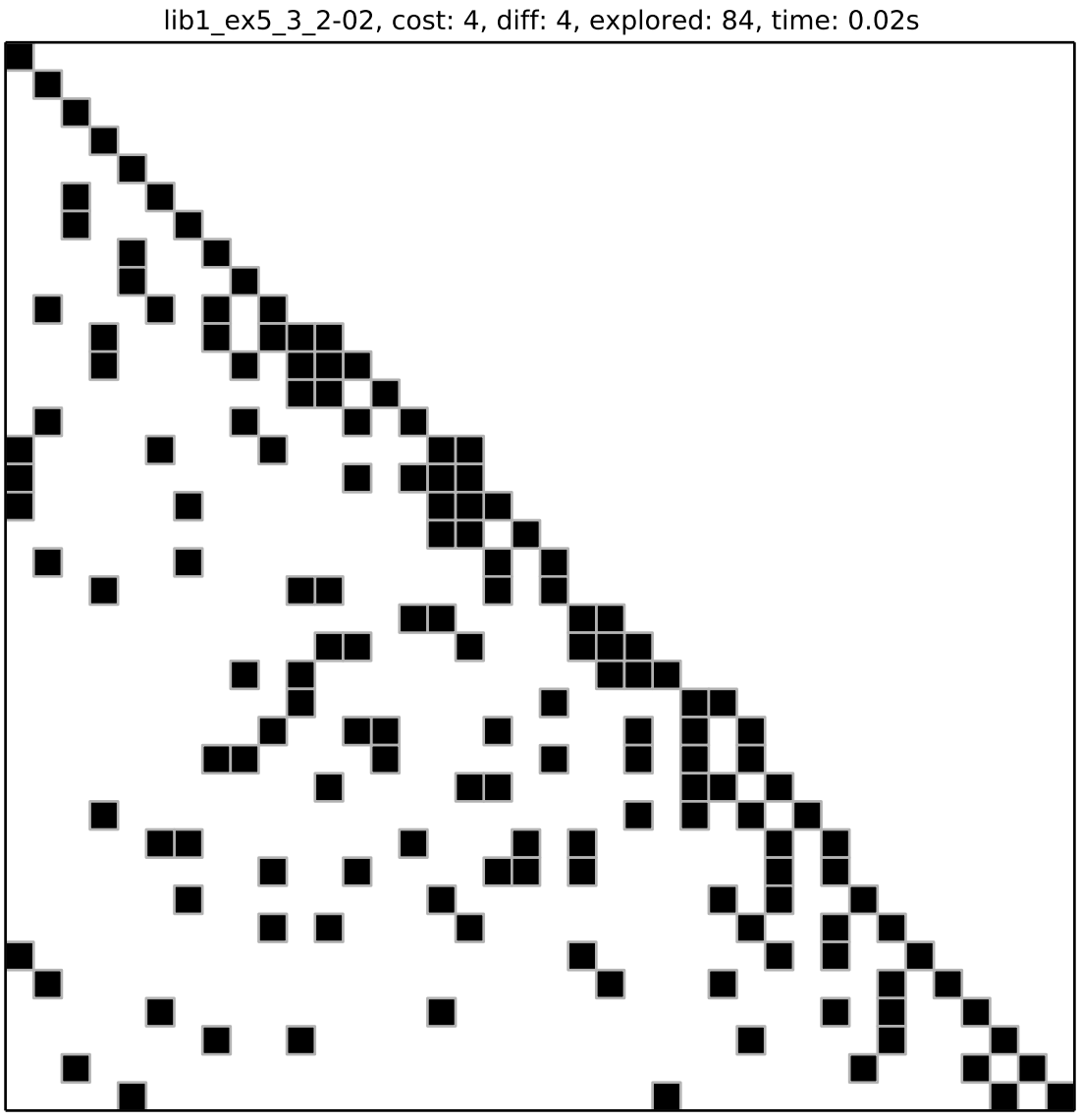

lib1_ex5_3_2-00, cost: 4, diff: 4, explored: 93, time: 0.03s


lib1_ex5_3_2-01 38x38 (158) con: 16, var: 22

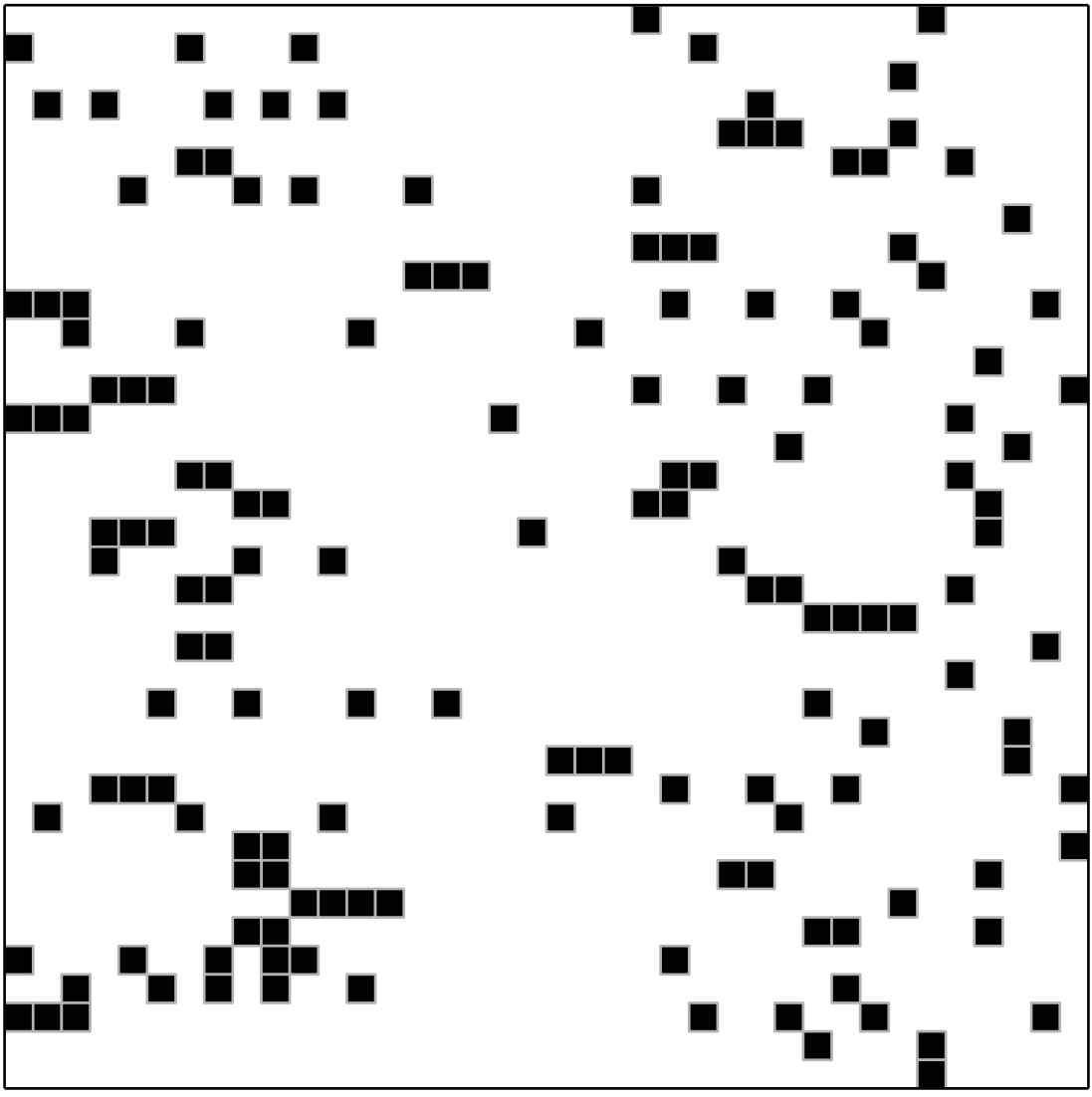

lib1_ex5_3_2-01, cost: 4, diff: 4, explored: 101, time: 0.03s

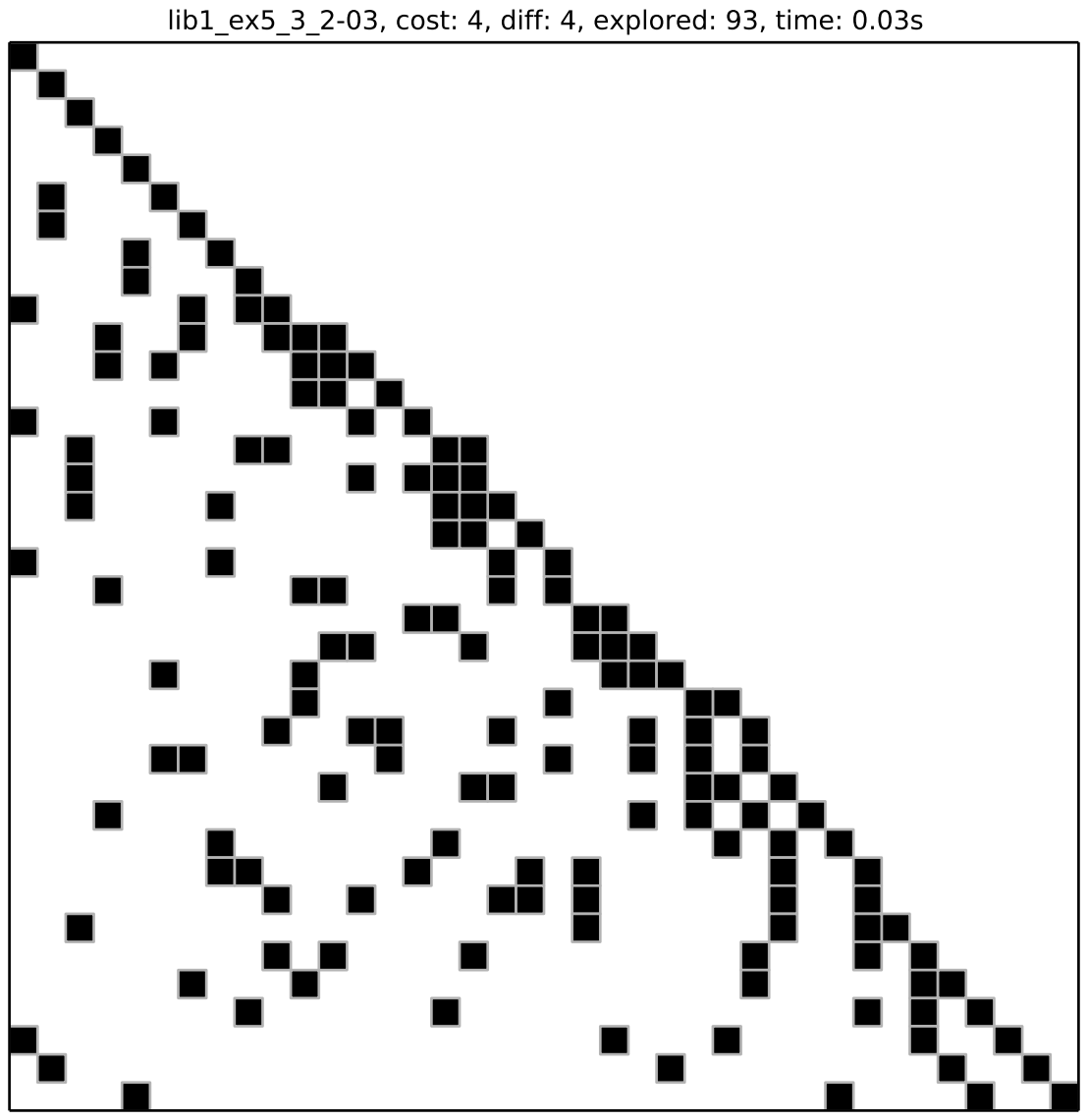
lib1_ex5_3_2-02 38x38 (158) con: 16, var: 22




lib1_ex5_3_2-02, cost: 4, diff: 4, explored: 84, time: 0.02s

lib1_ex5_3_2-03 38x38 (158) con: 16, var: 22

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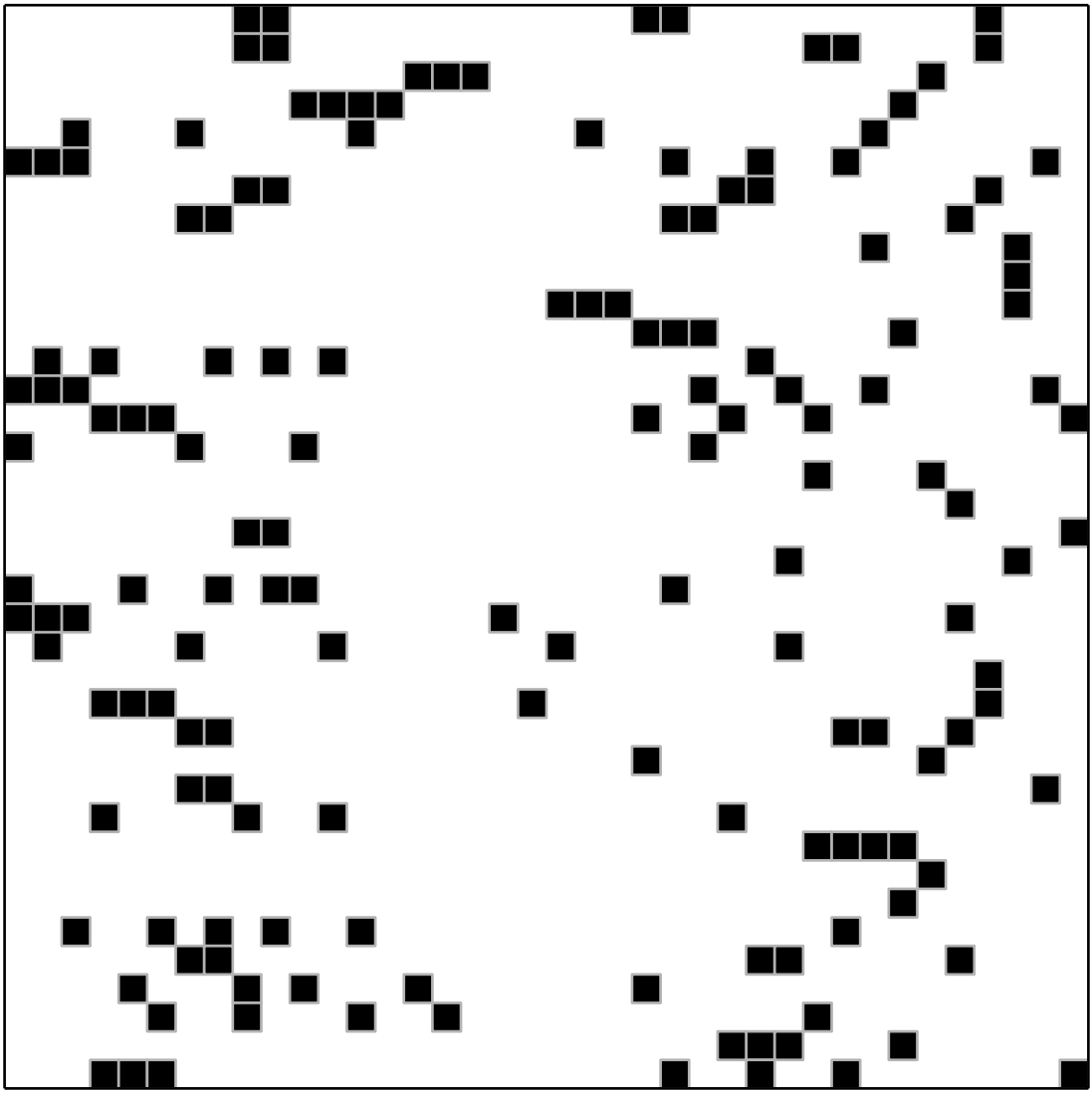
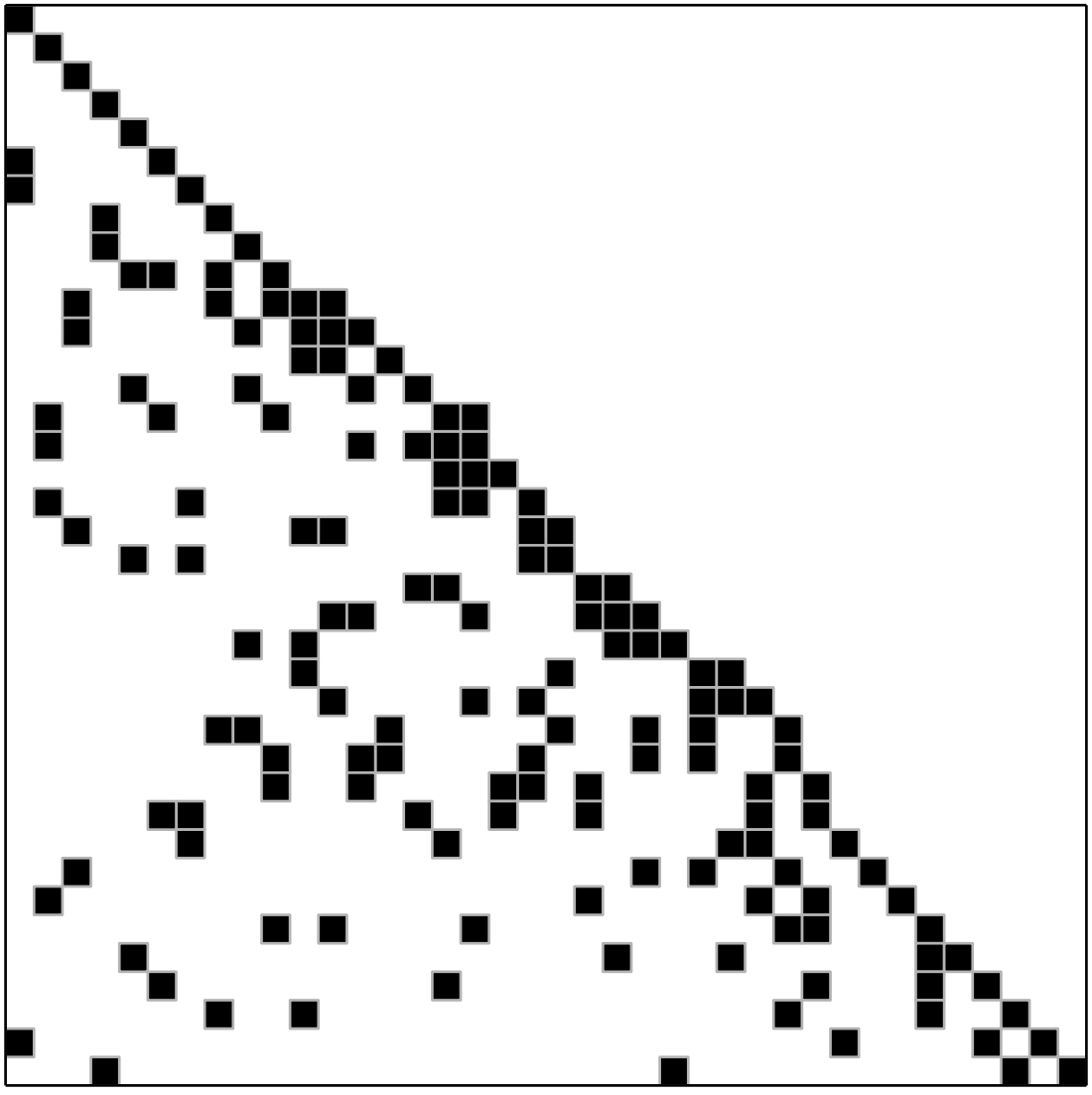
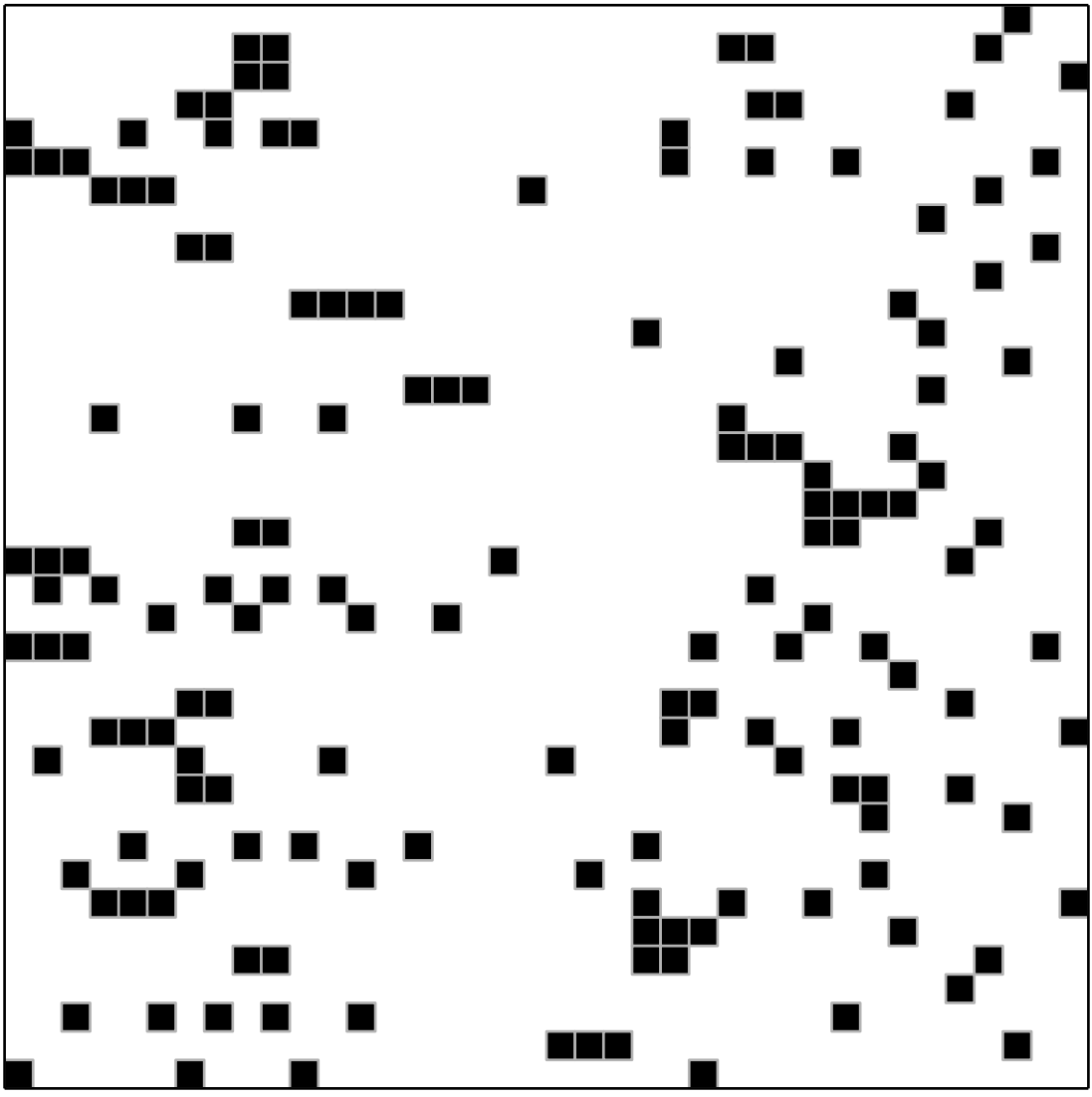
lib1_ex5_3_2-04 38x38 (158) con: 16, var: 22

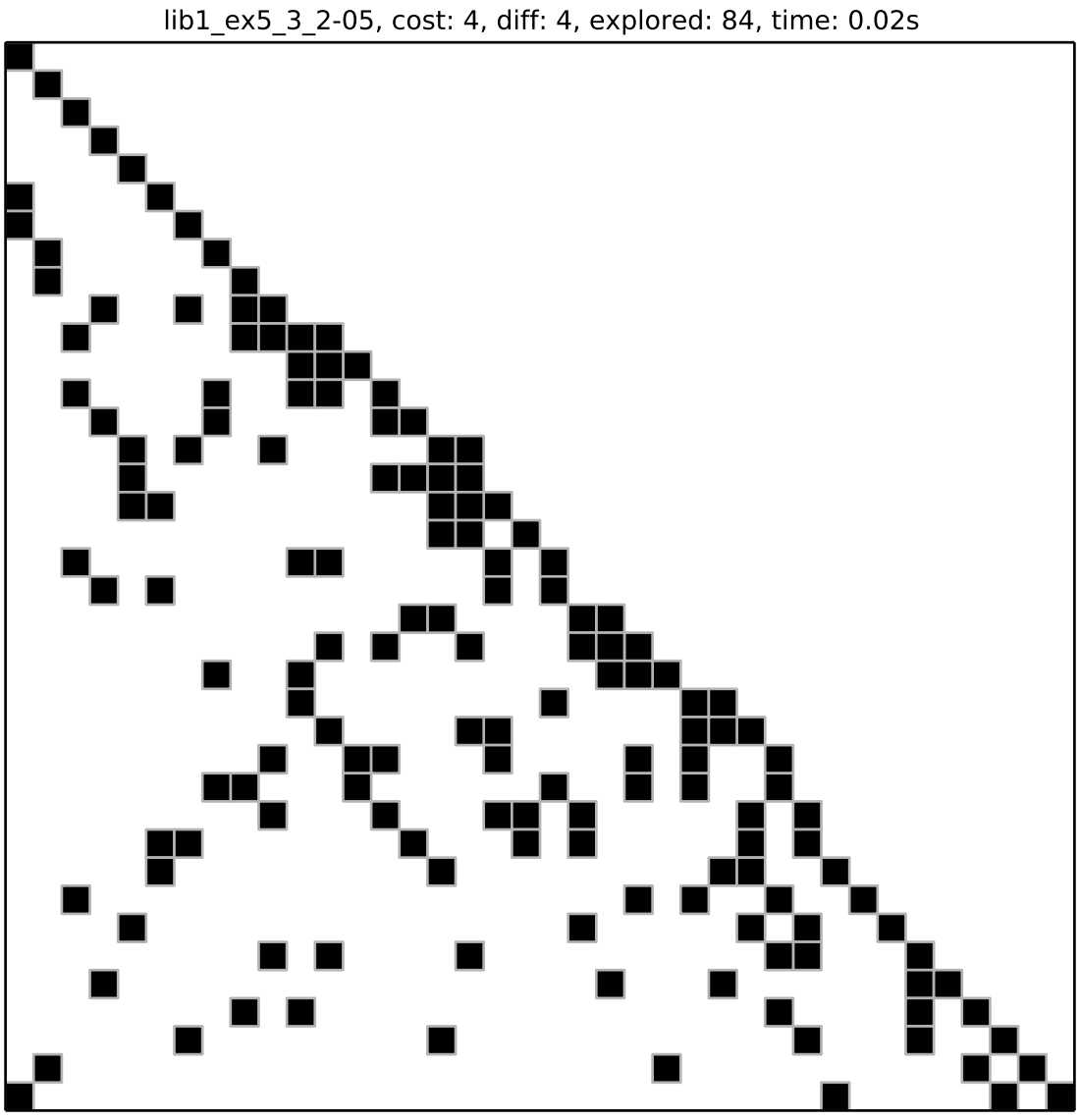


lib1_ex5_3_2-04, cost: 4, diff: 4, explored: 70, time: 0.02s

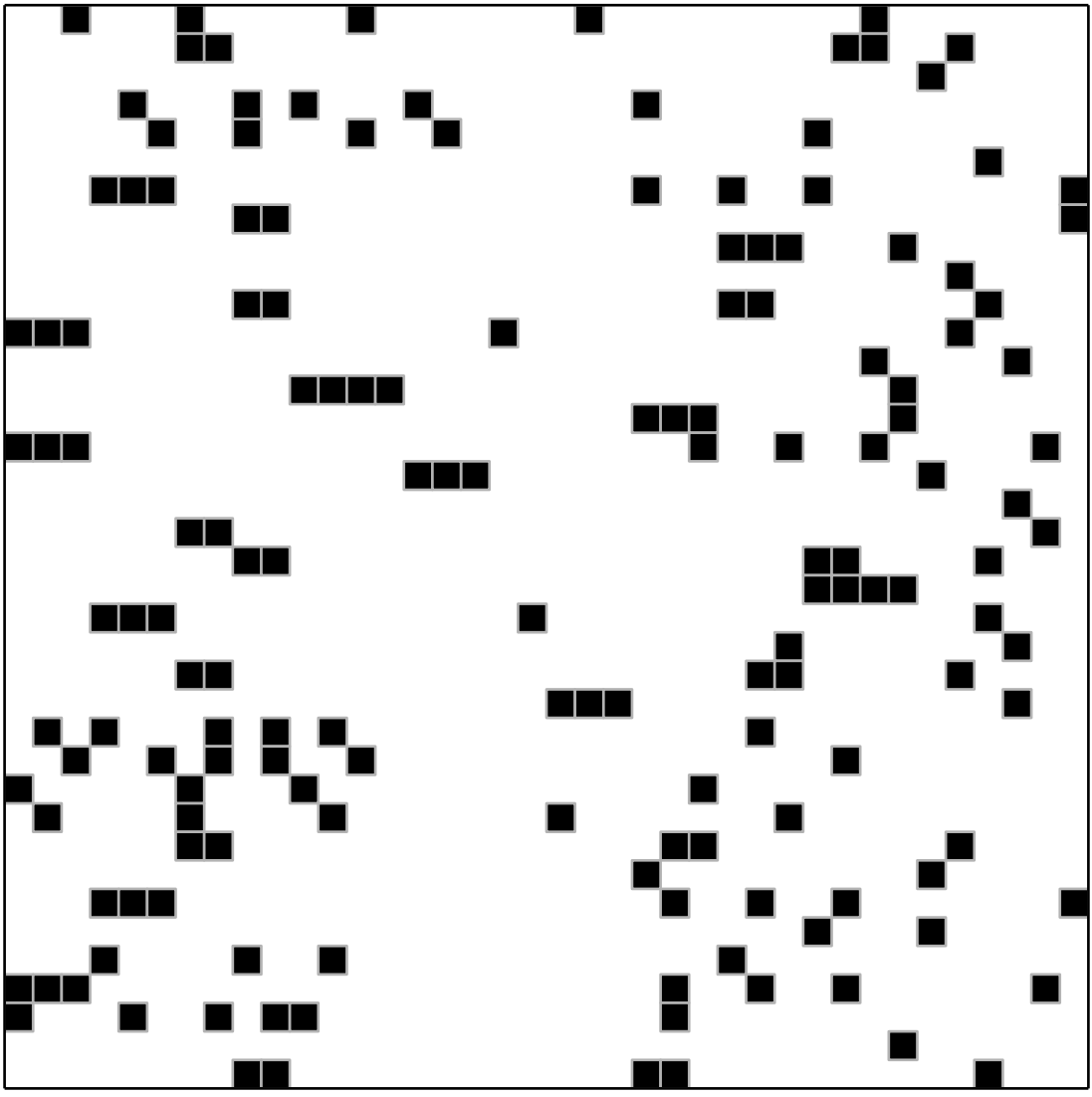


lib1_ex5_3_2-05 38x38 (158) con: 16, var: 22

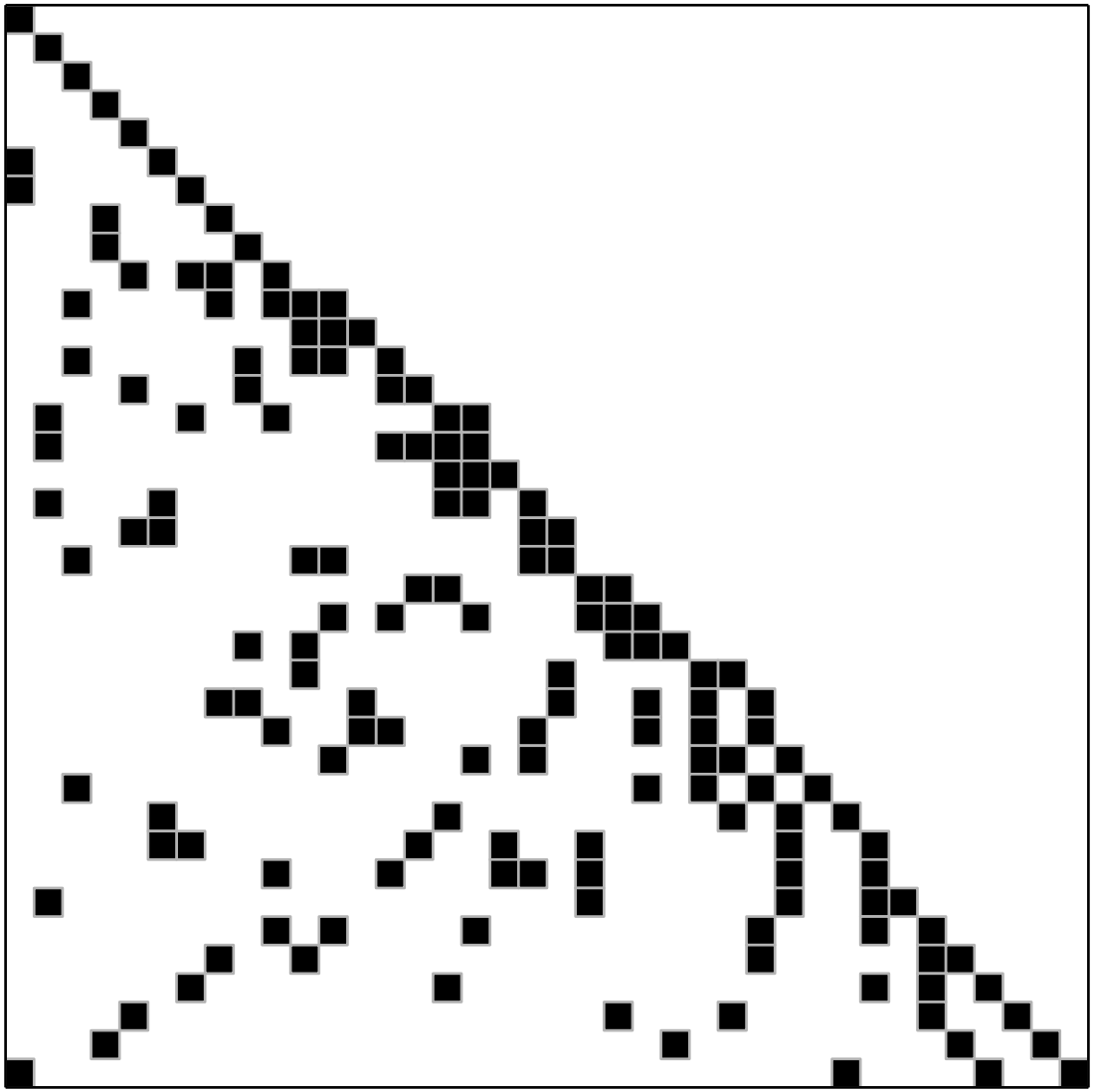



lib1_ex5_3_2-05, cost: 4, diff: 4, explored: 84, time: 0.02s

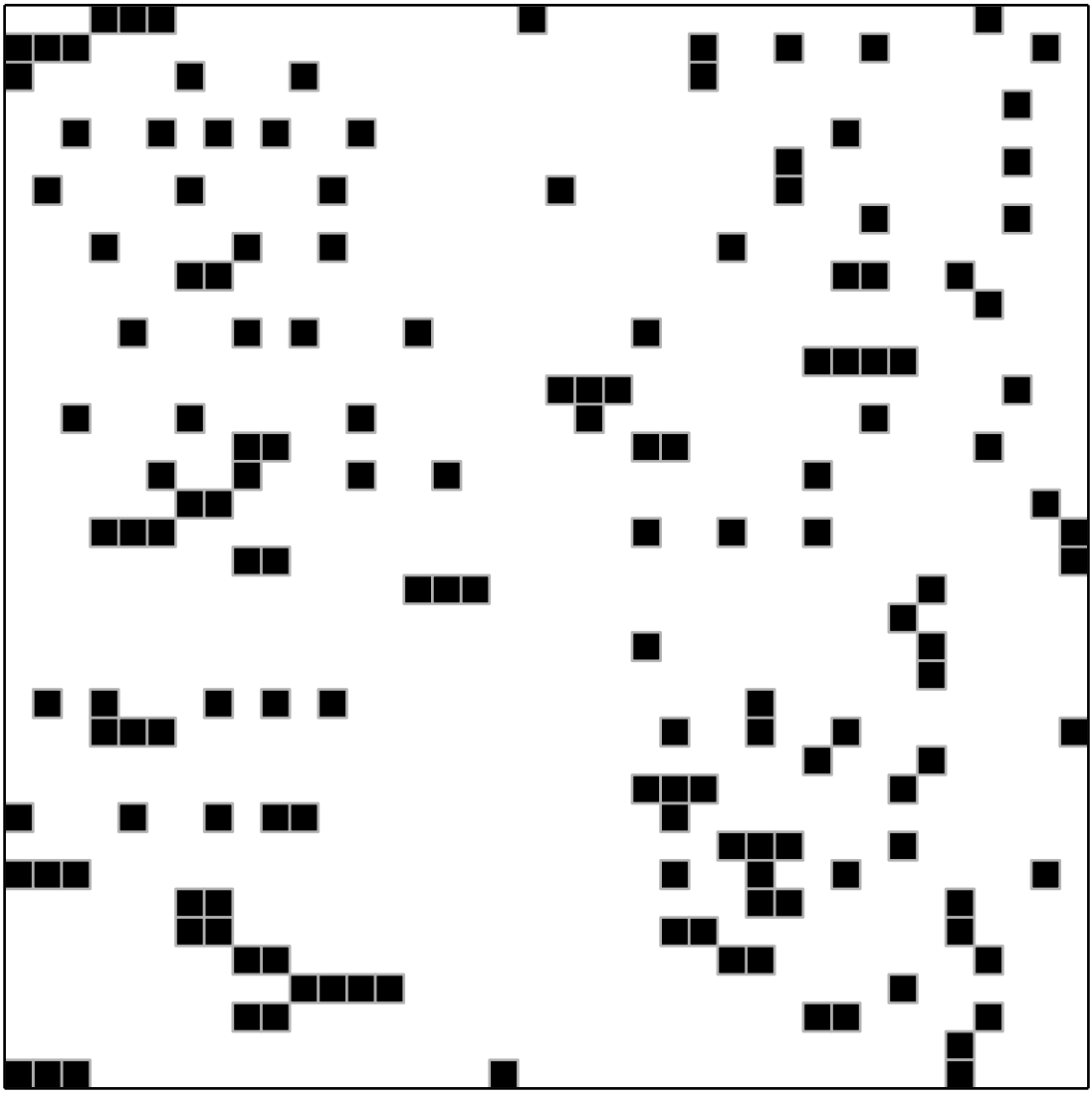
lib1_ex5_3_2-06 38x38 (158) con: 16, var: 22



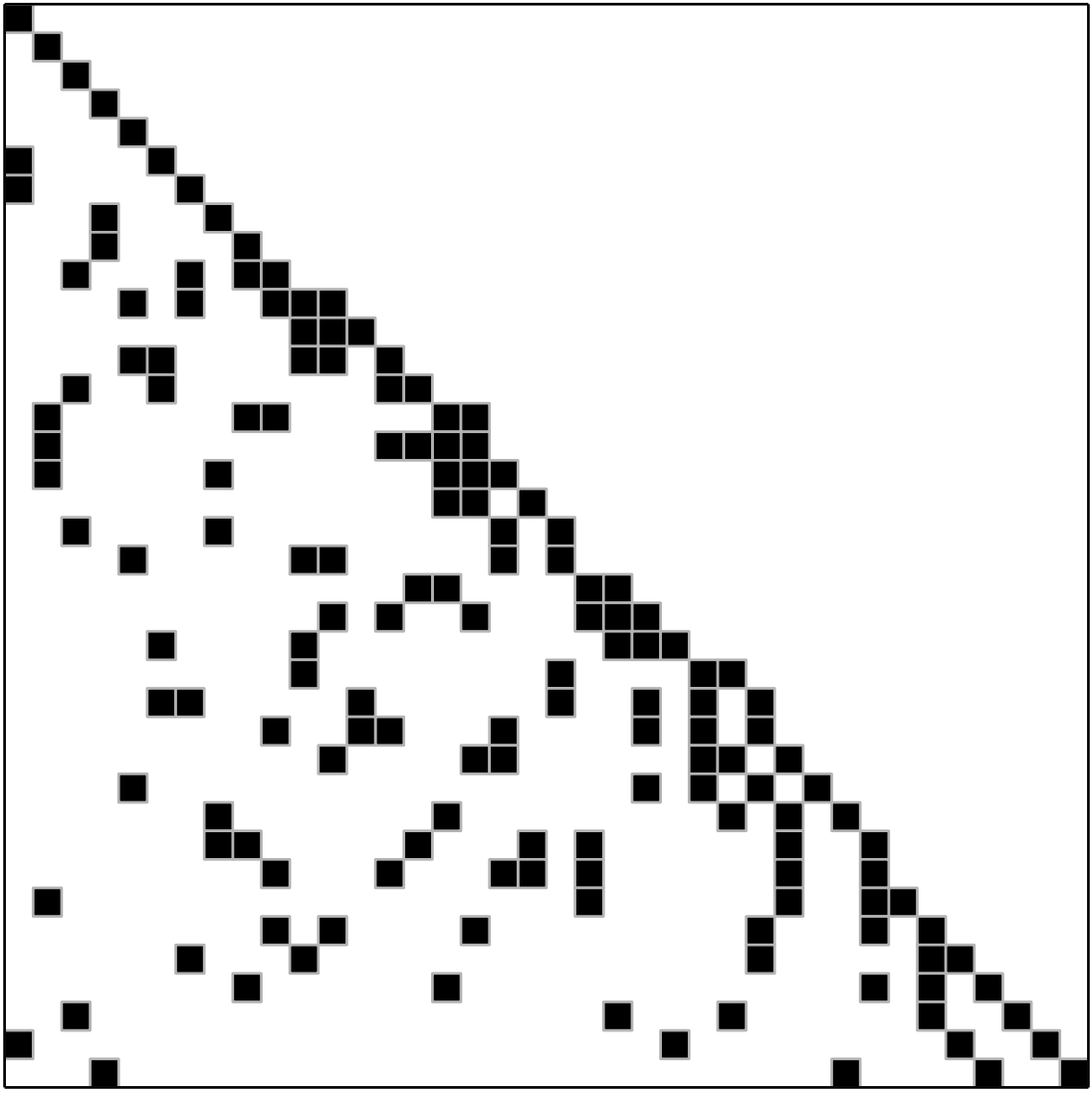
lib1_ex5_3_2-06, cost: 4, diff: 4, explored: 81, time: 0.02s



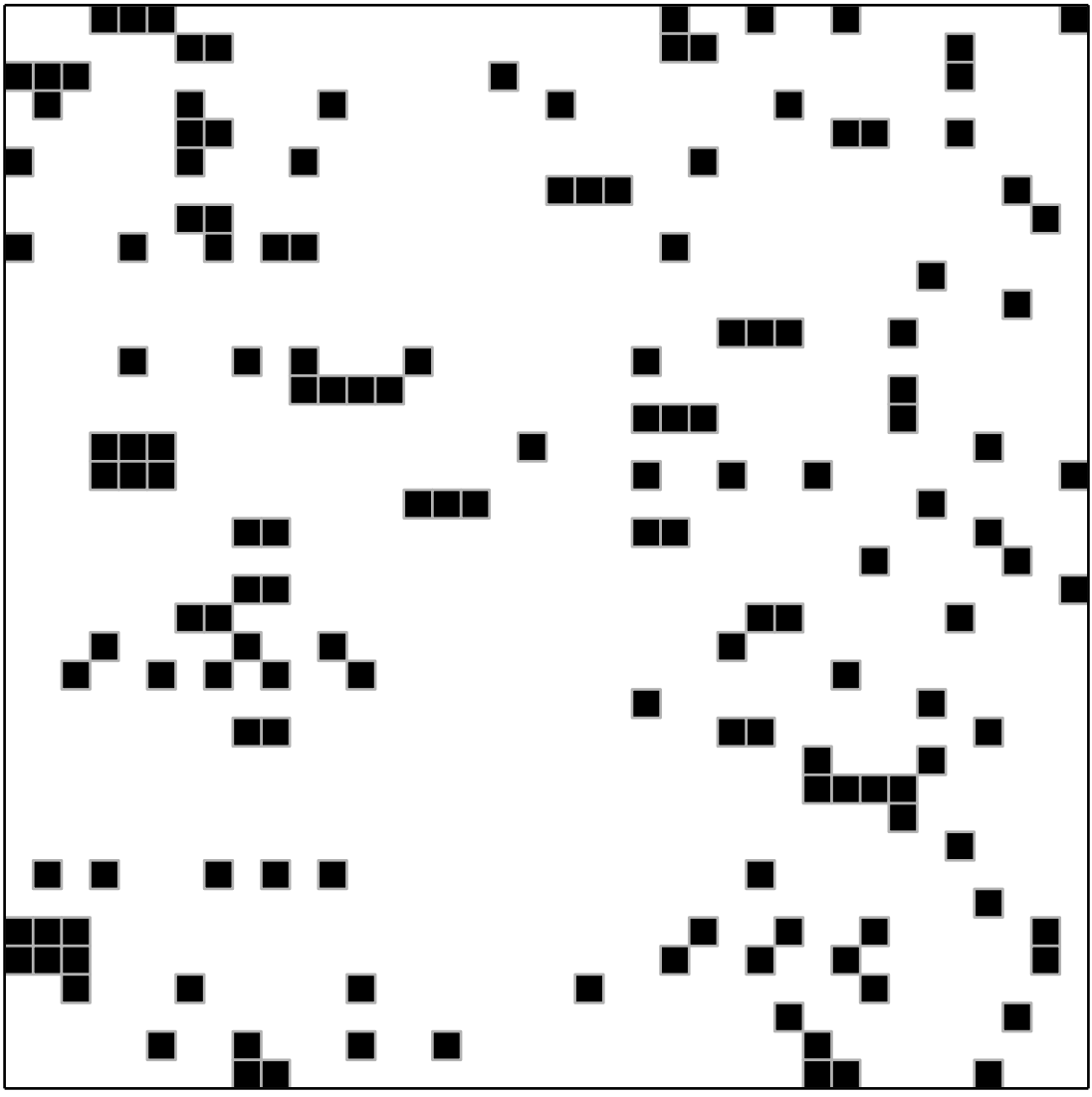
lib1_ex5_3_2-07 38x38 (158) con: 16, var: 22



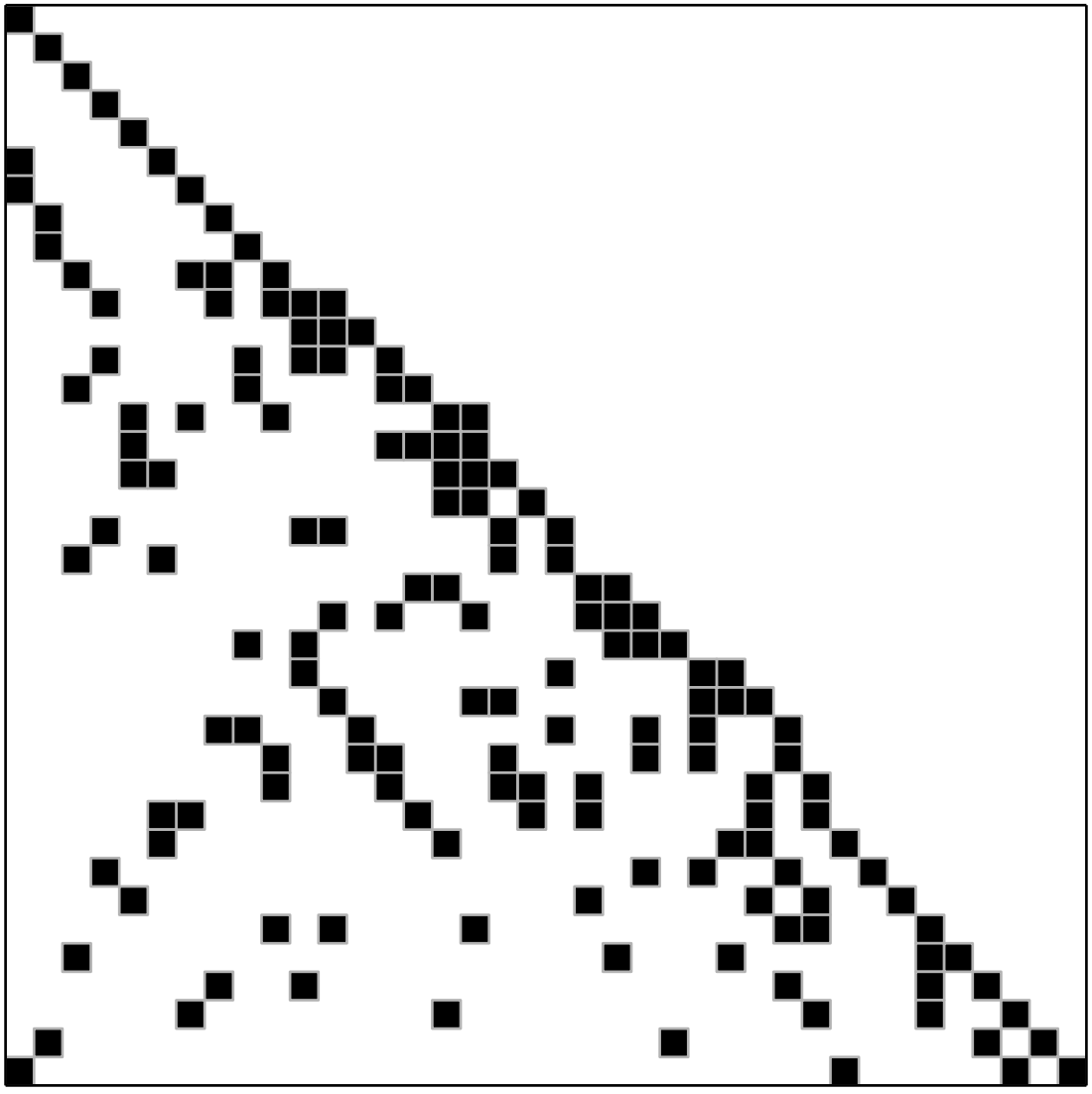
lib1_ex5_3_2-07, cost: 4, diff: 4, explored: 87, time: 0.03s



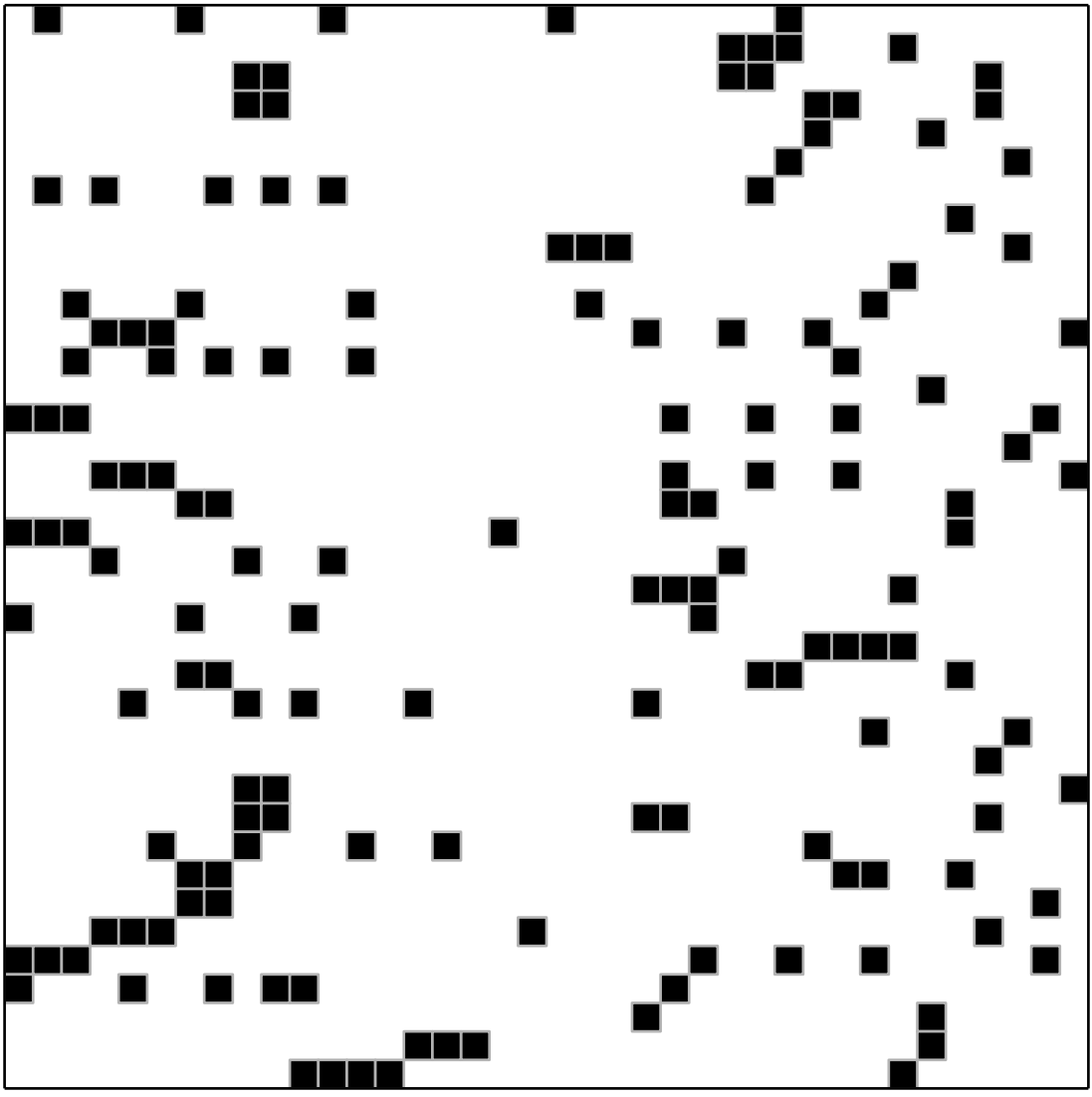
lib1_ex5_3_2-08 38x38 (158) con: 16, var: 22

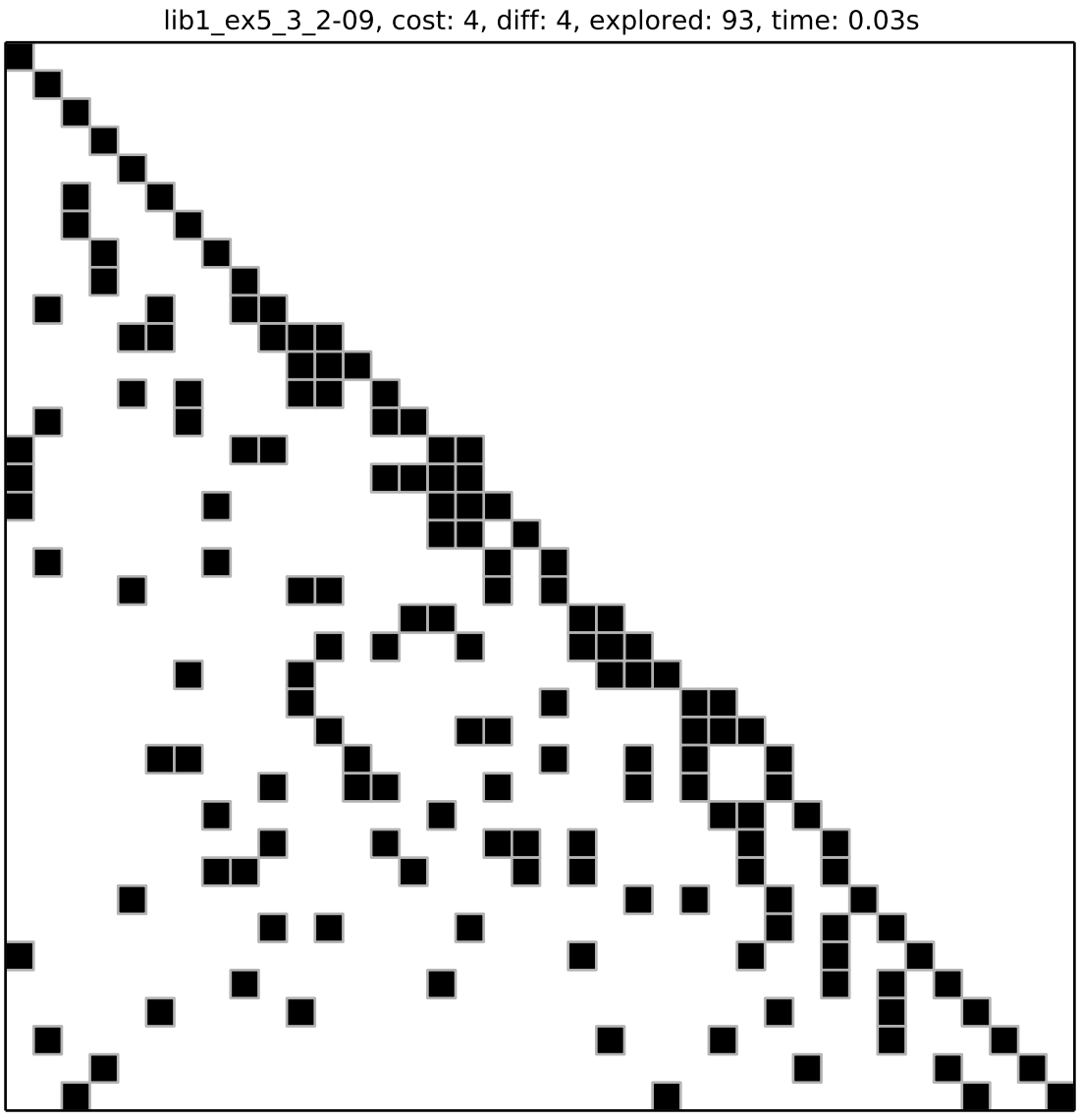


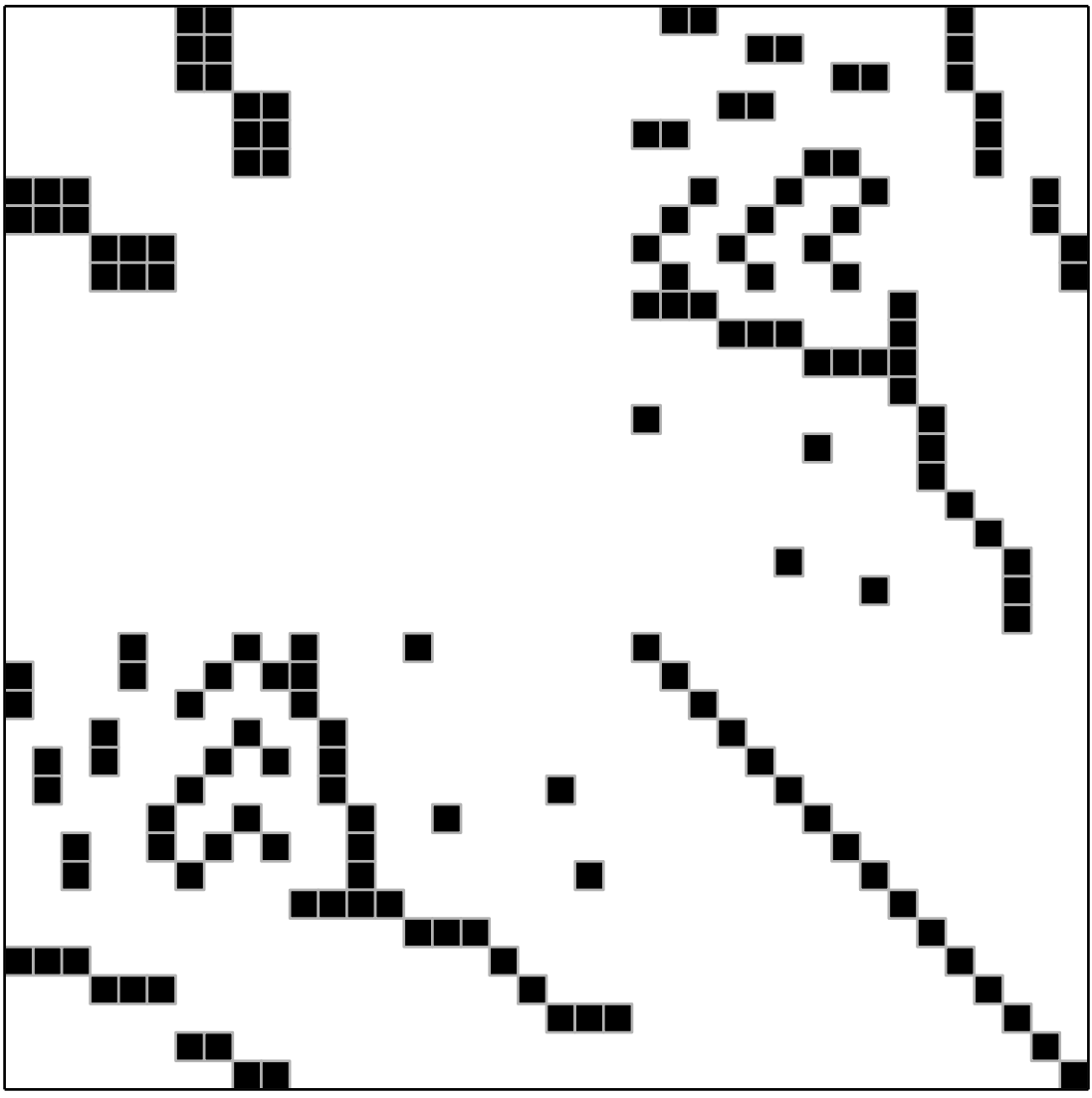
lib1_ex5_3_2-08, cost: 4, diff: 4, explored: 84, time: 0.02s

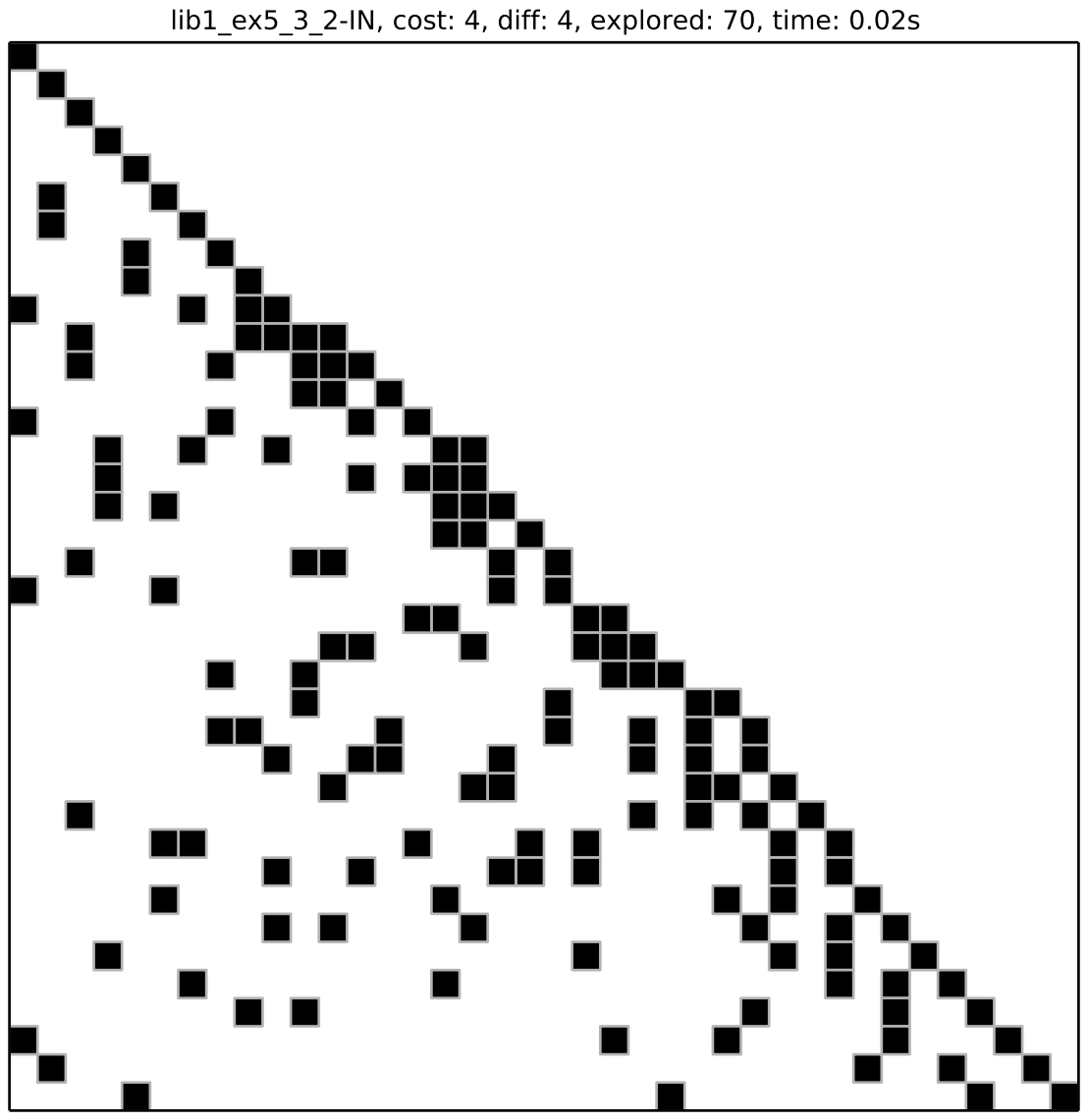


lib1_ex5_3_2-09 38x38 (158) con: 16, var: 22




lib1_ex5_3_2-09, cost: 4, diff: 4, explored: 93, time: 0.03s


lib1_ex5_3_2-IN 38x38 (158) con: 16, var: 22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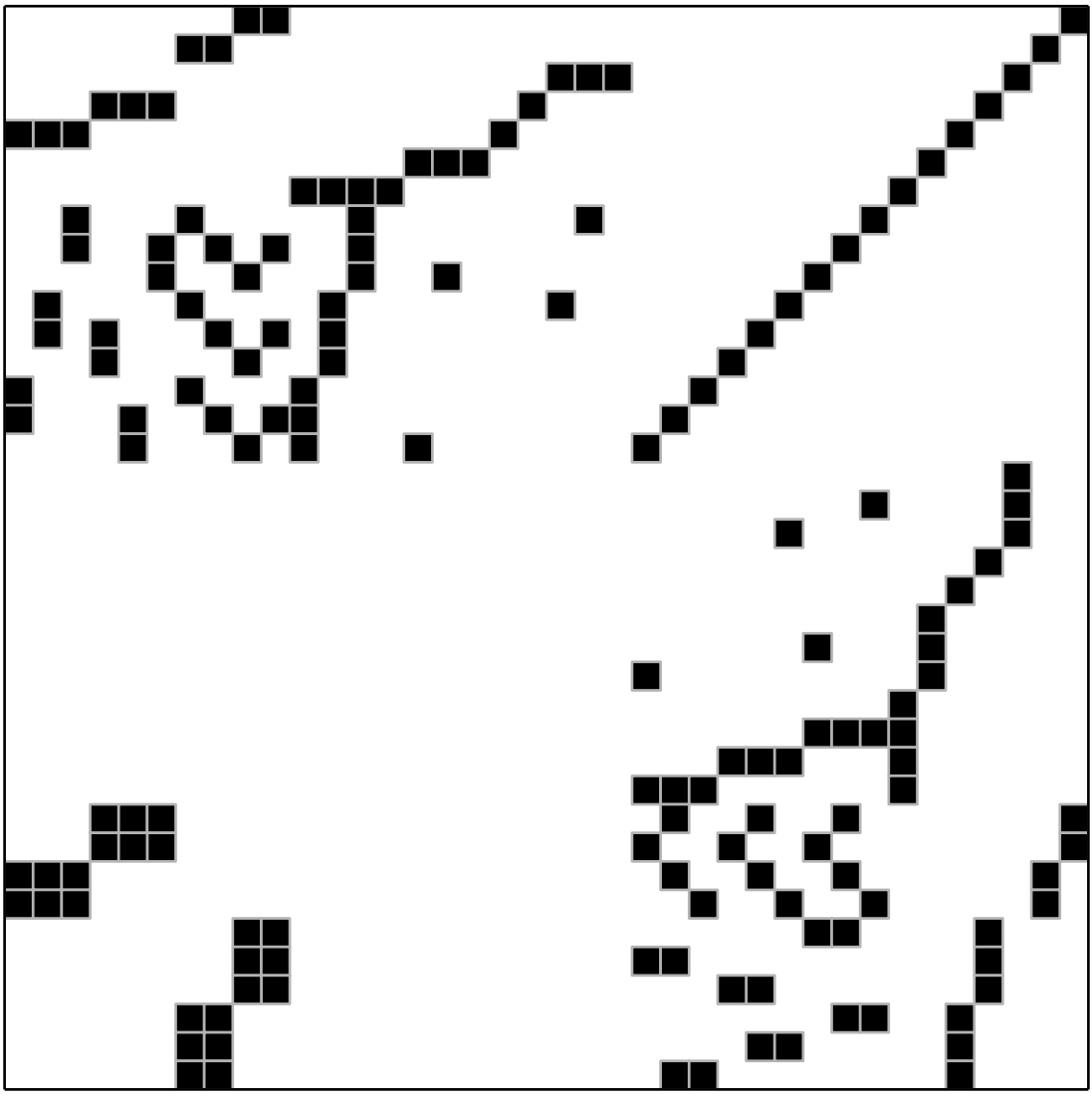
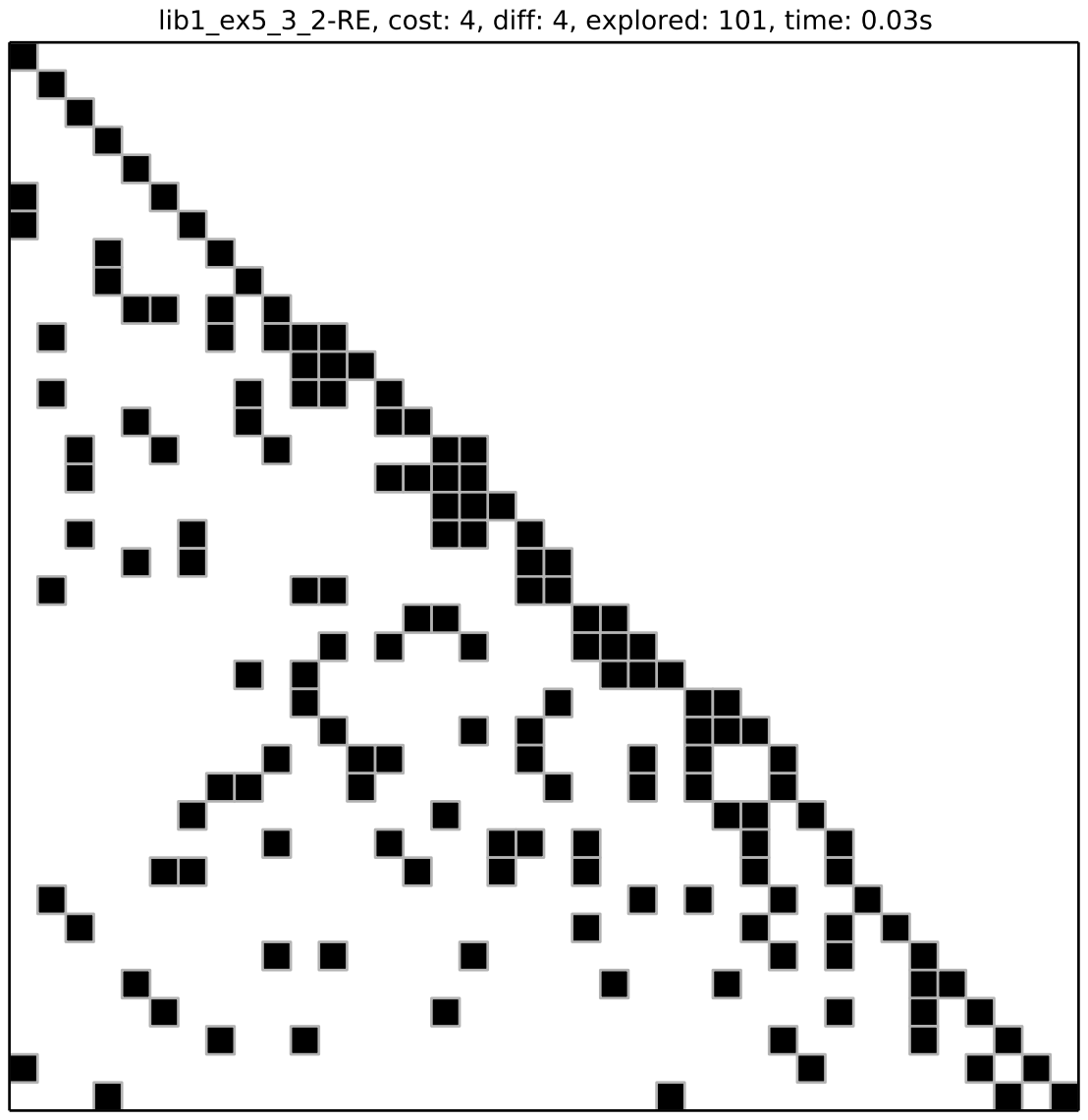

lib1_ex5_3_2-RE 38x38 (158) con: 16, var: 22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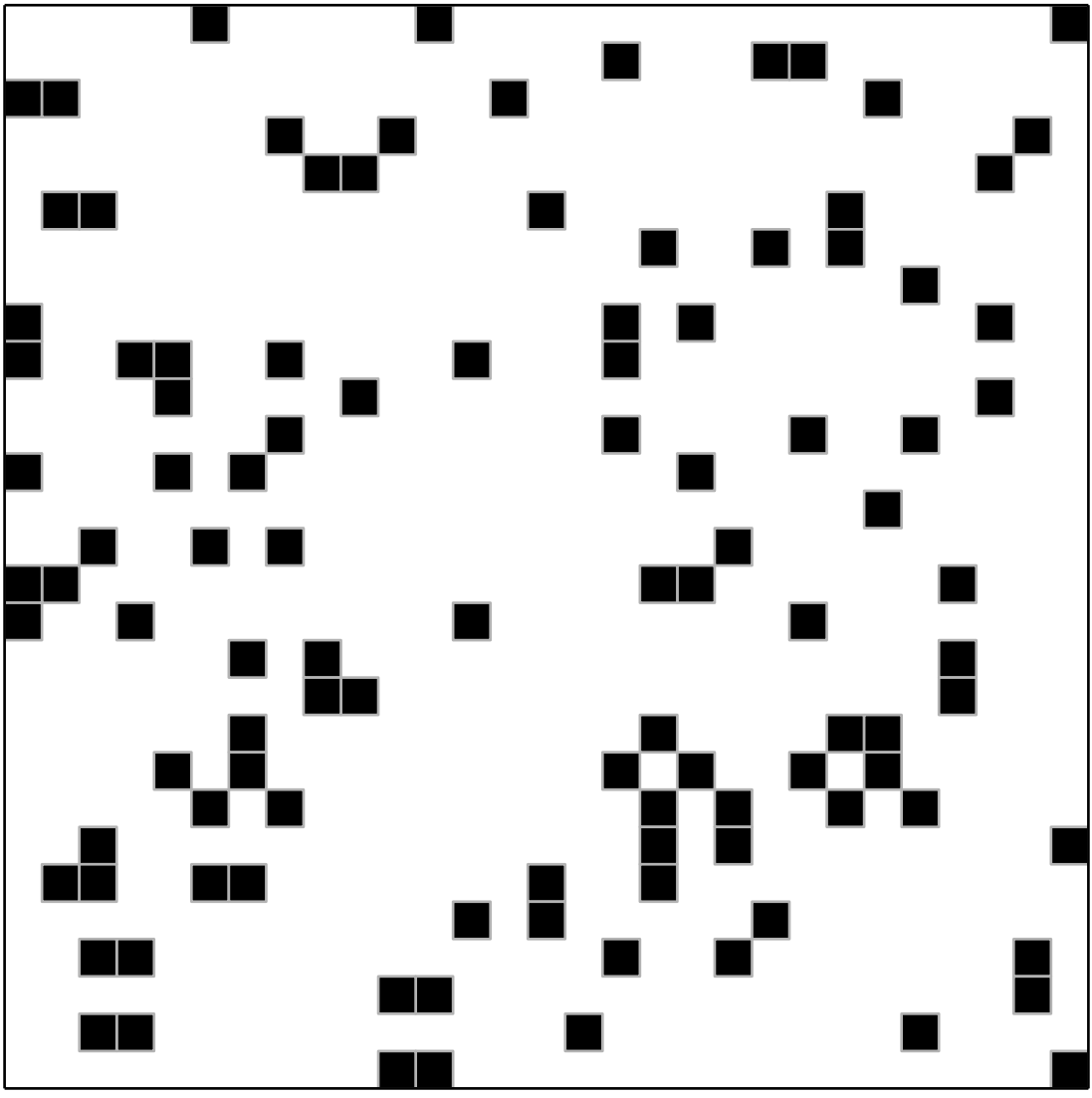
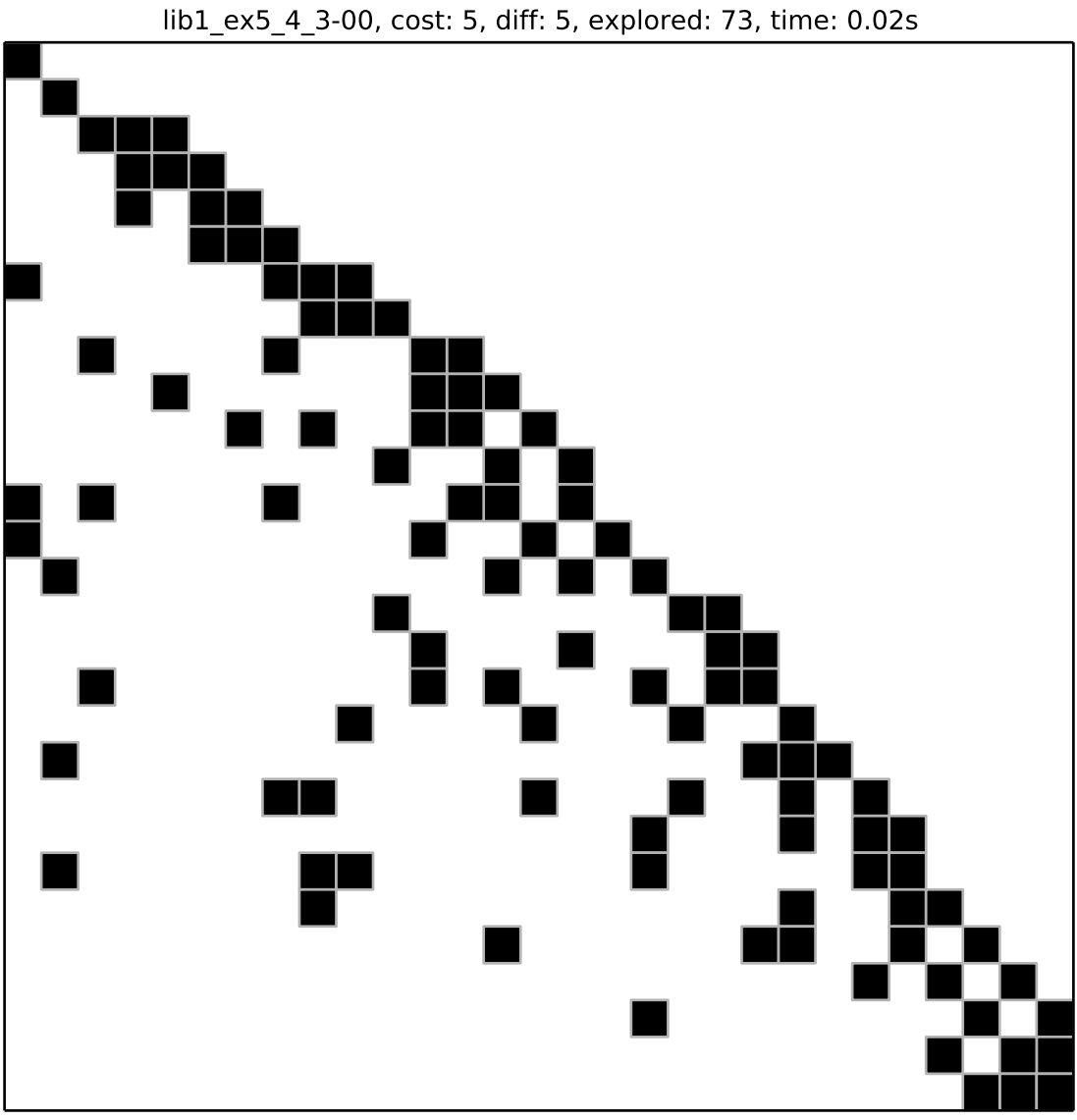
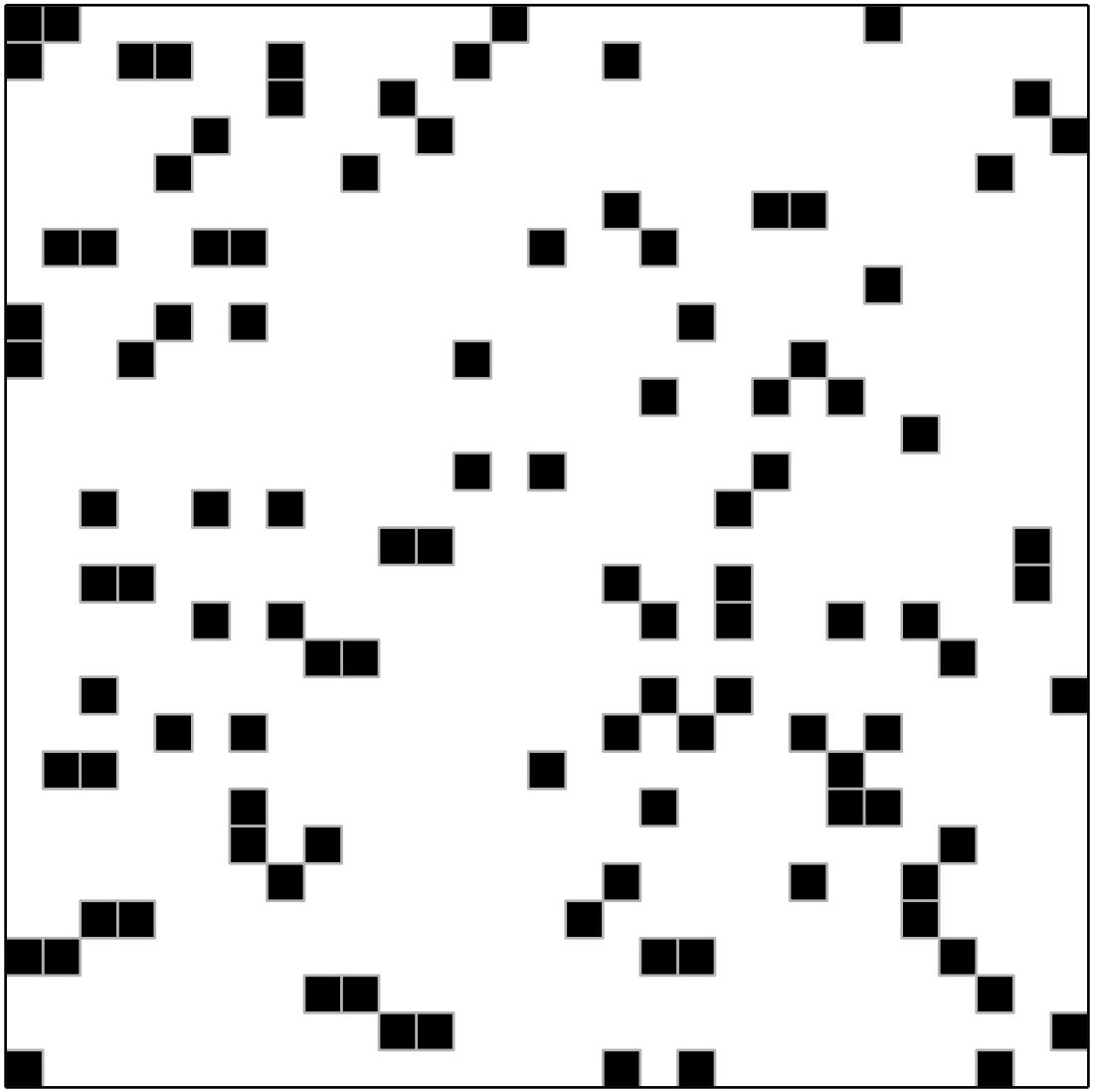
lib1_ex5_4_3-00 29x29 (109) con: 13, var: 16

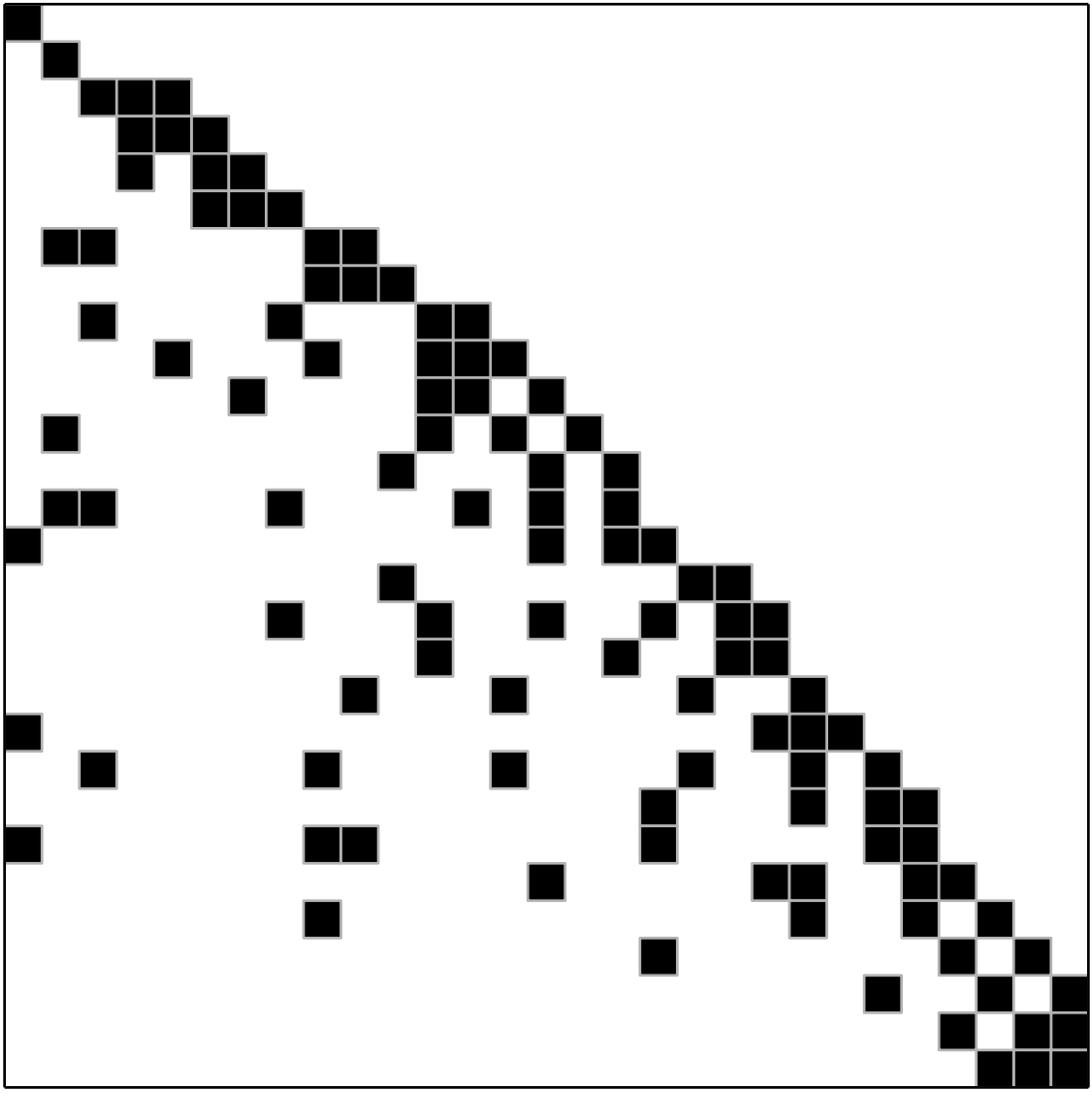



lib1_ex5_4_3-00, cost: 5, diff: 5, explored: 73, time: 0.02s

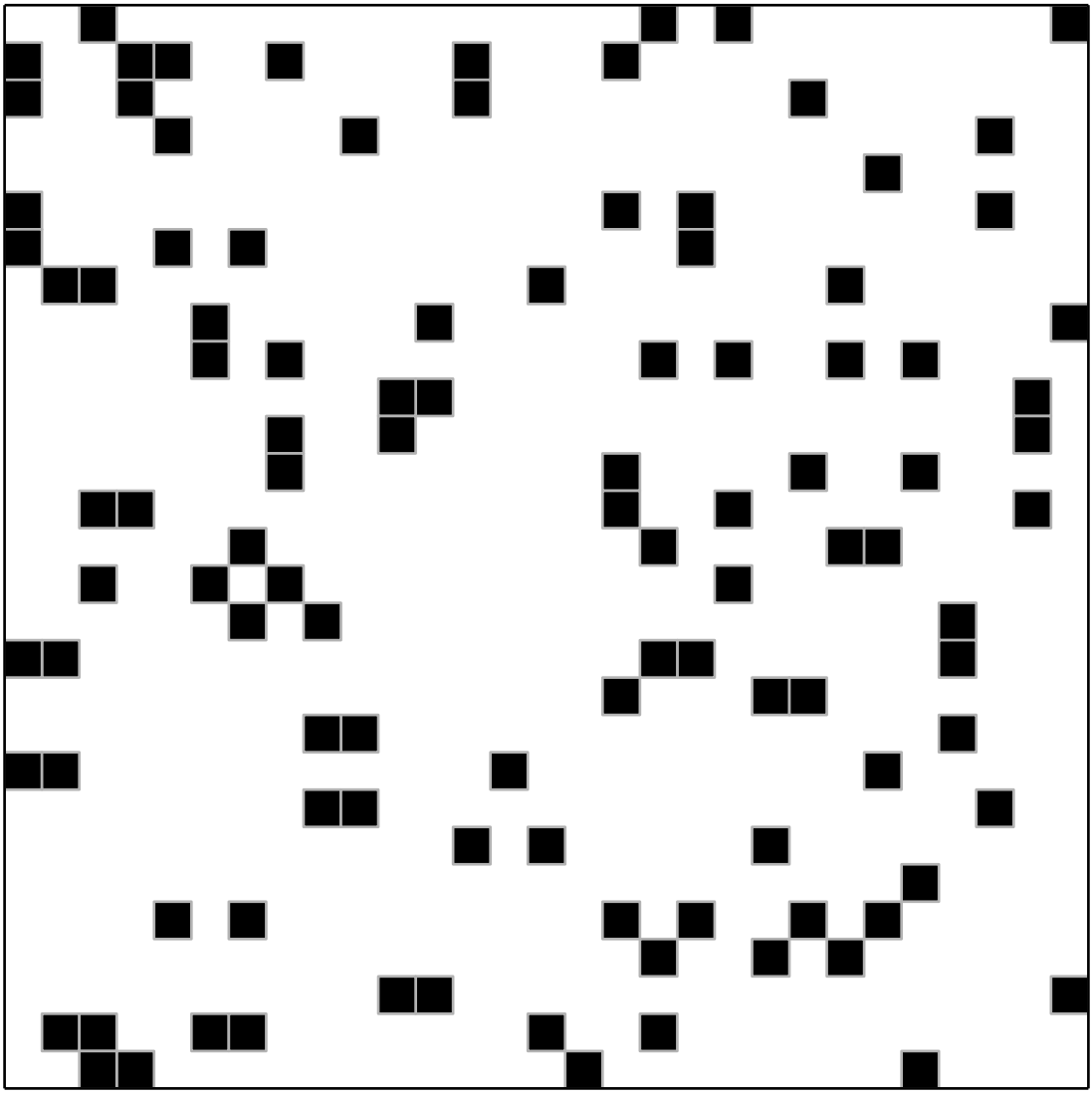
lib1_ex5_4_3-01 29x29 (109) con: 13, var: 16



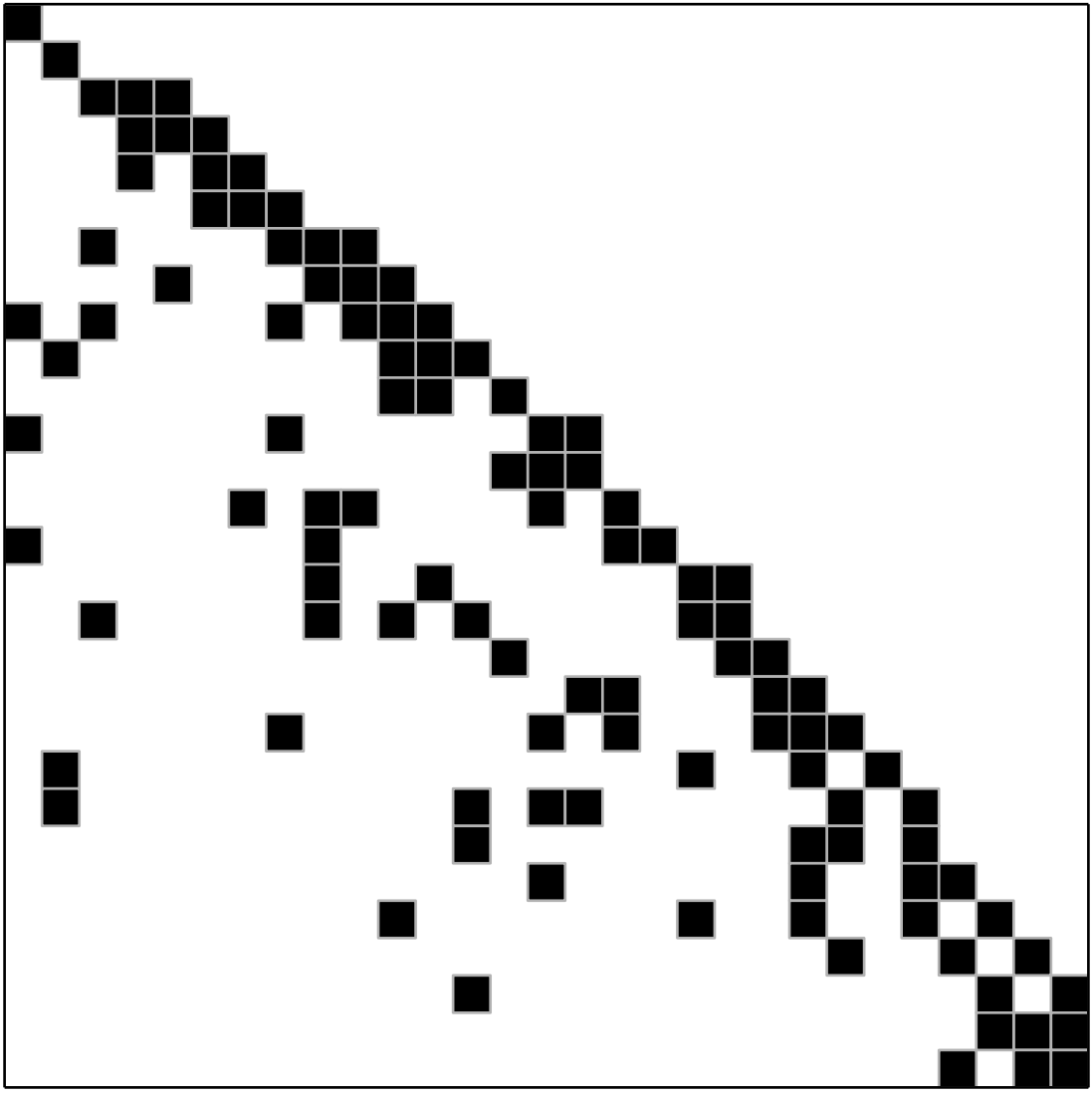
lib1_ex5_4_3-01, cost: 5, diff: 5, explored: 72, time: 0.02s



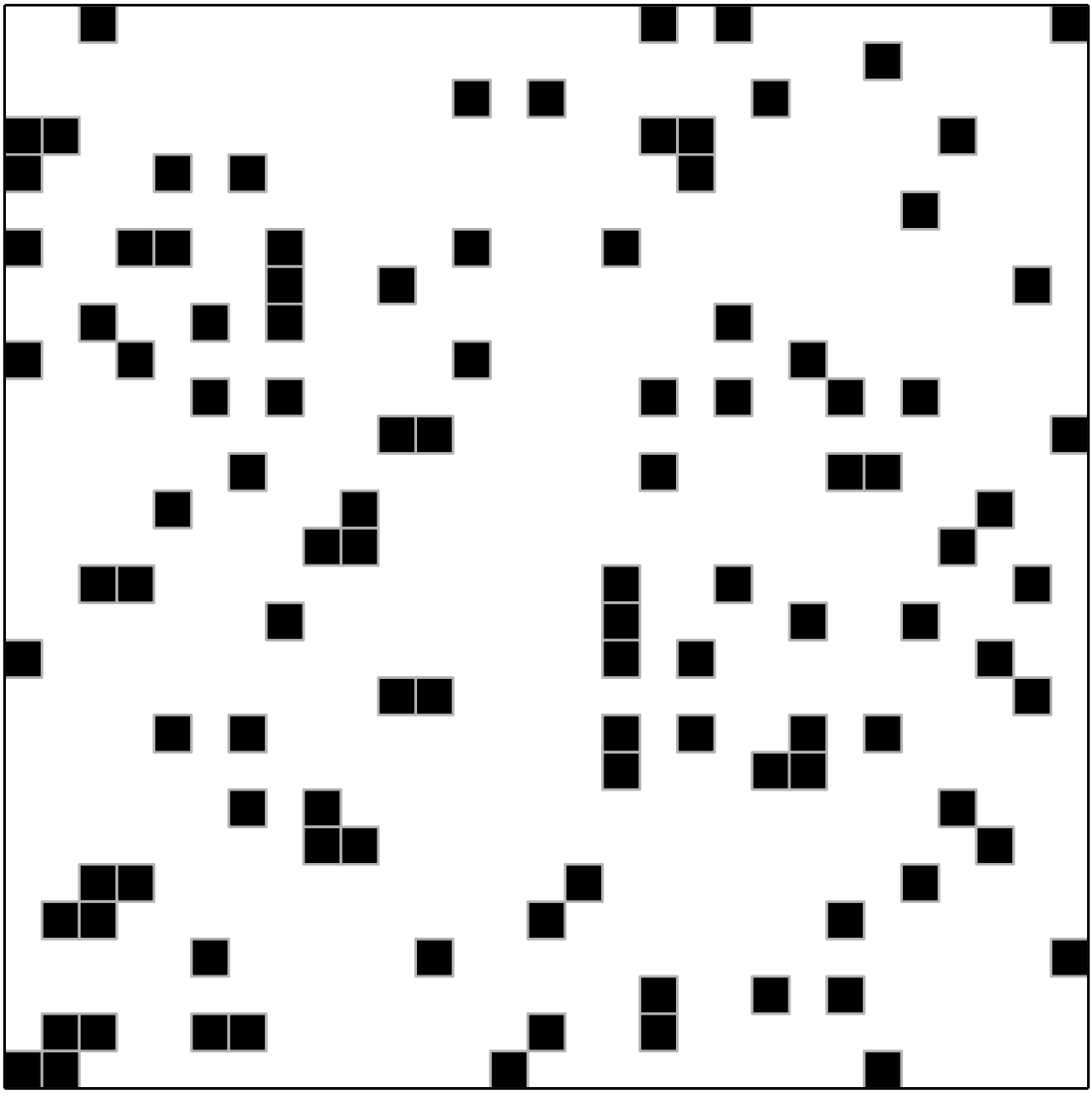
lib1_ex5_4_3-02 29x29 (109) con: 13, var: 16



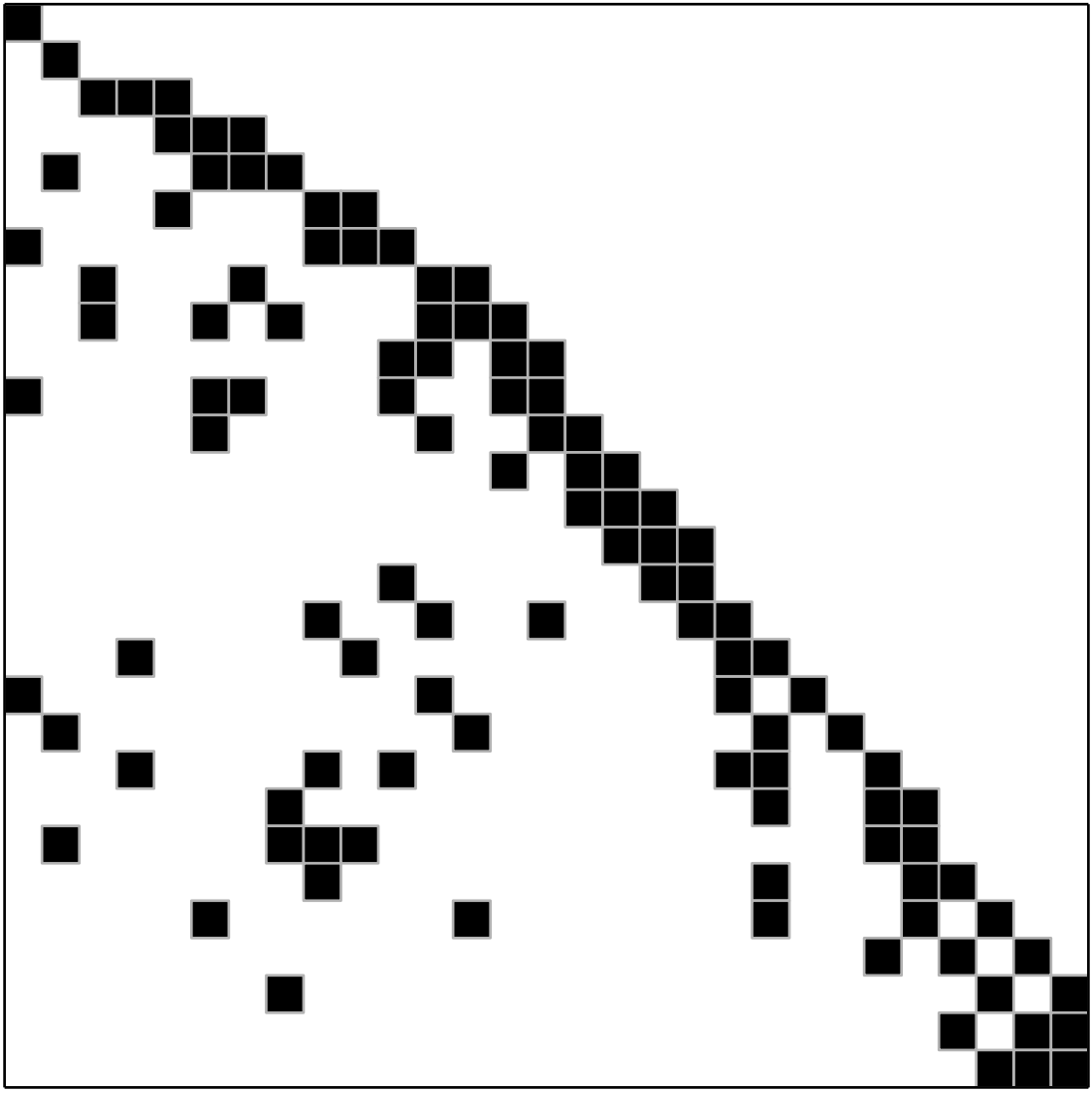
lib1_ex5_4_3-02, cost: 5, diff: 5, explored: 71, time: 0.02s



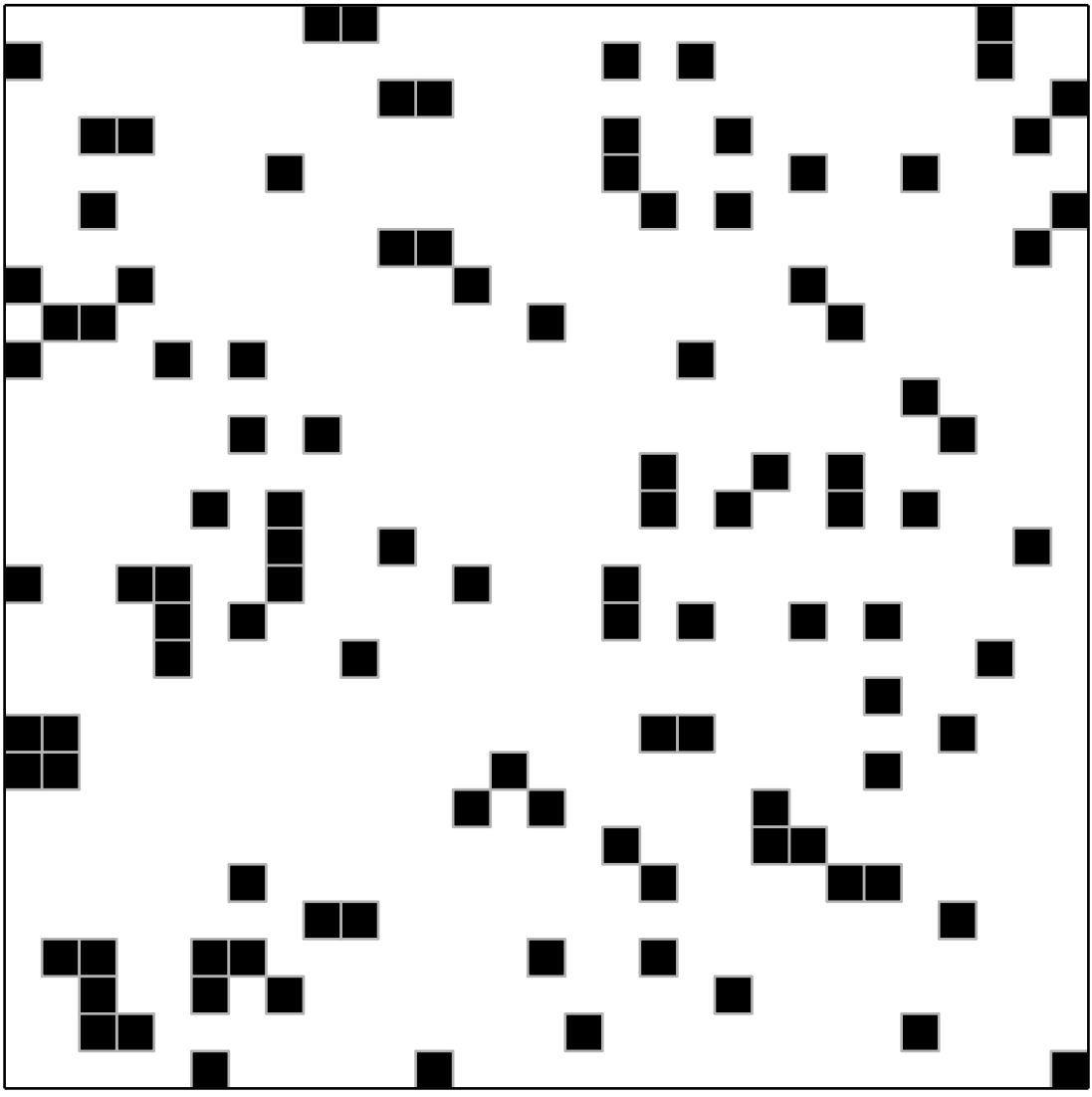
lib1_ex5_4_3-03 29x29 (109) con: 13, var: 16

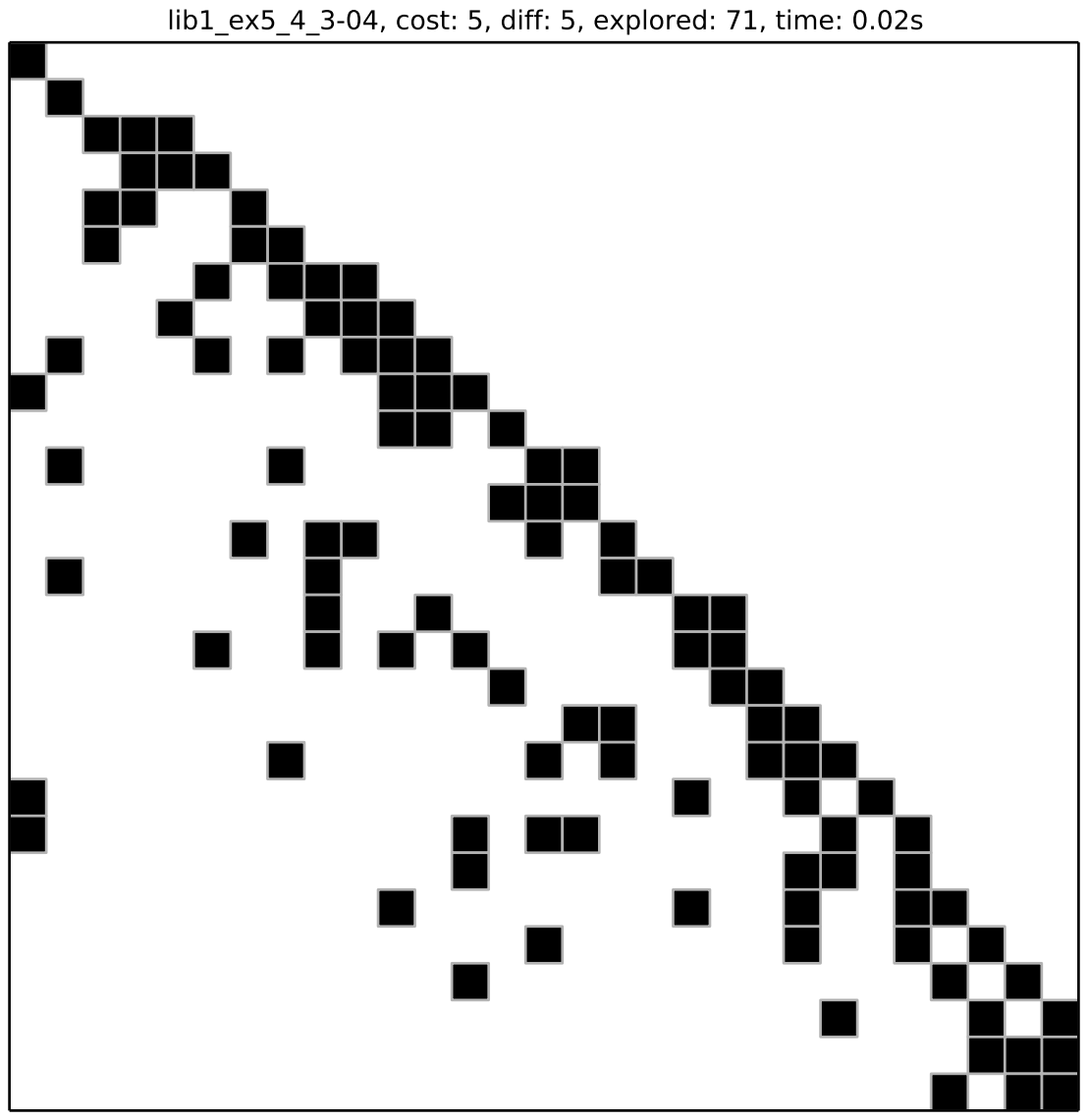


lib1_ex5_4_3-03, cost: 5, diff: 5, explored: 71, time: 0.02s

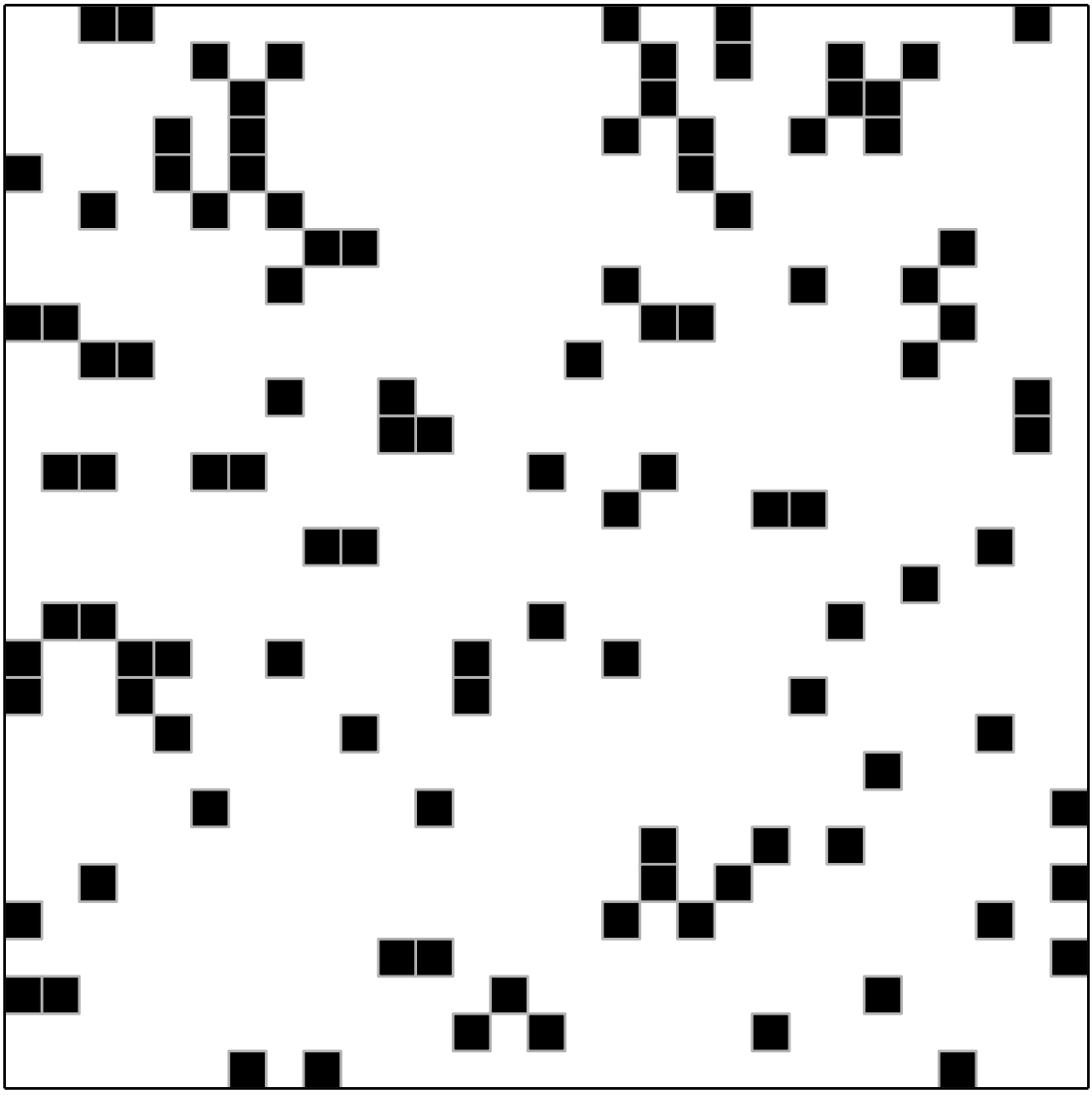


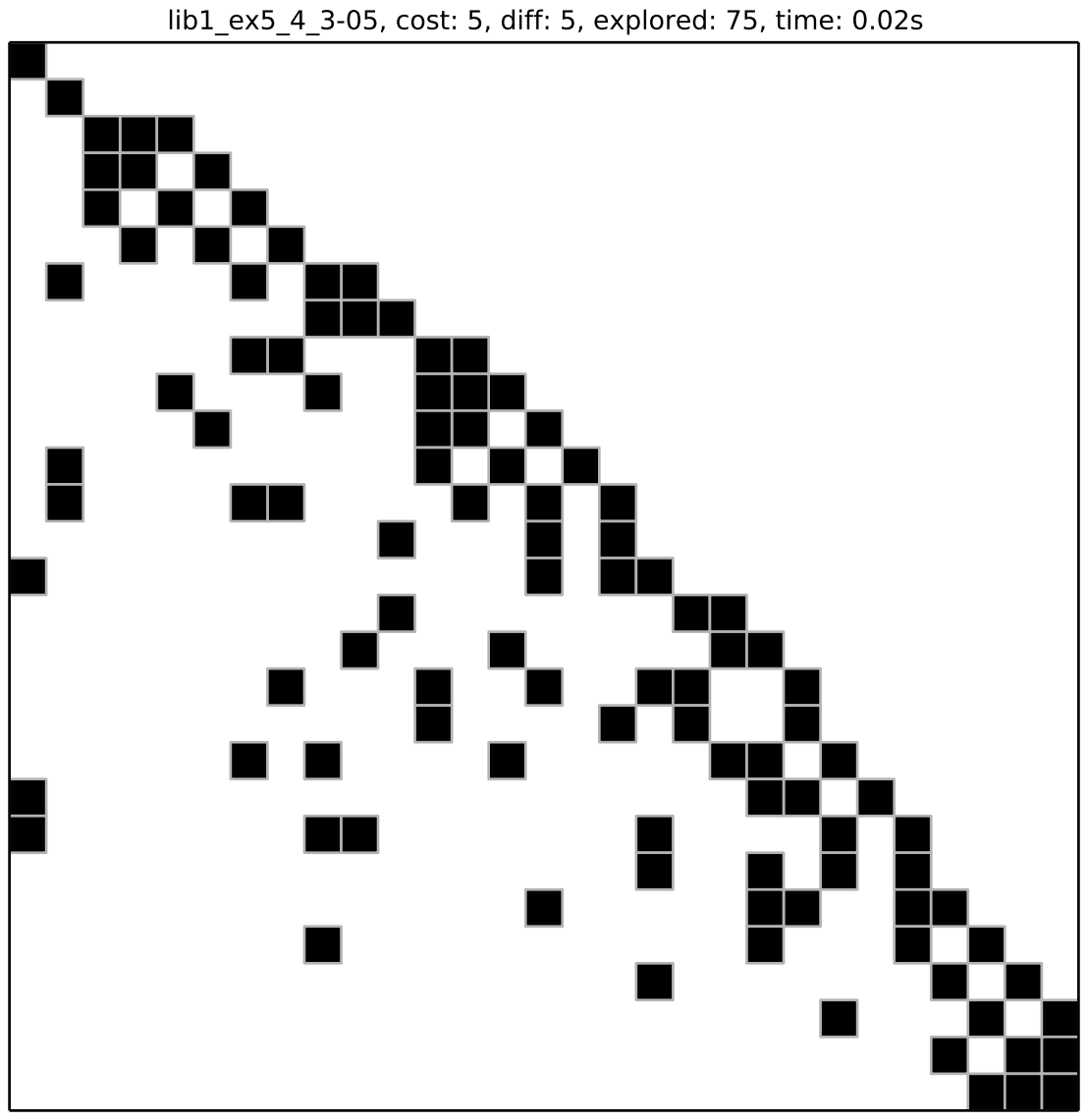
lib1_ex5_4_3-04 29x29 (109) con: 13, var: 16



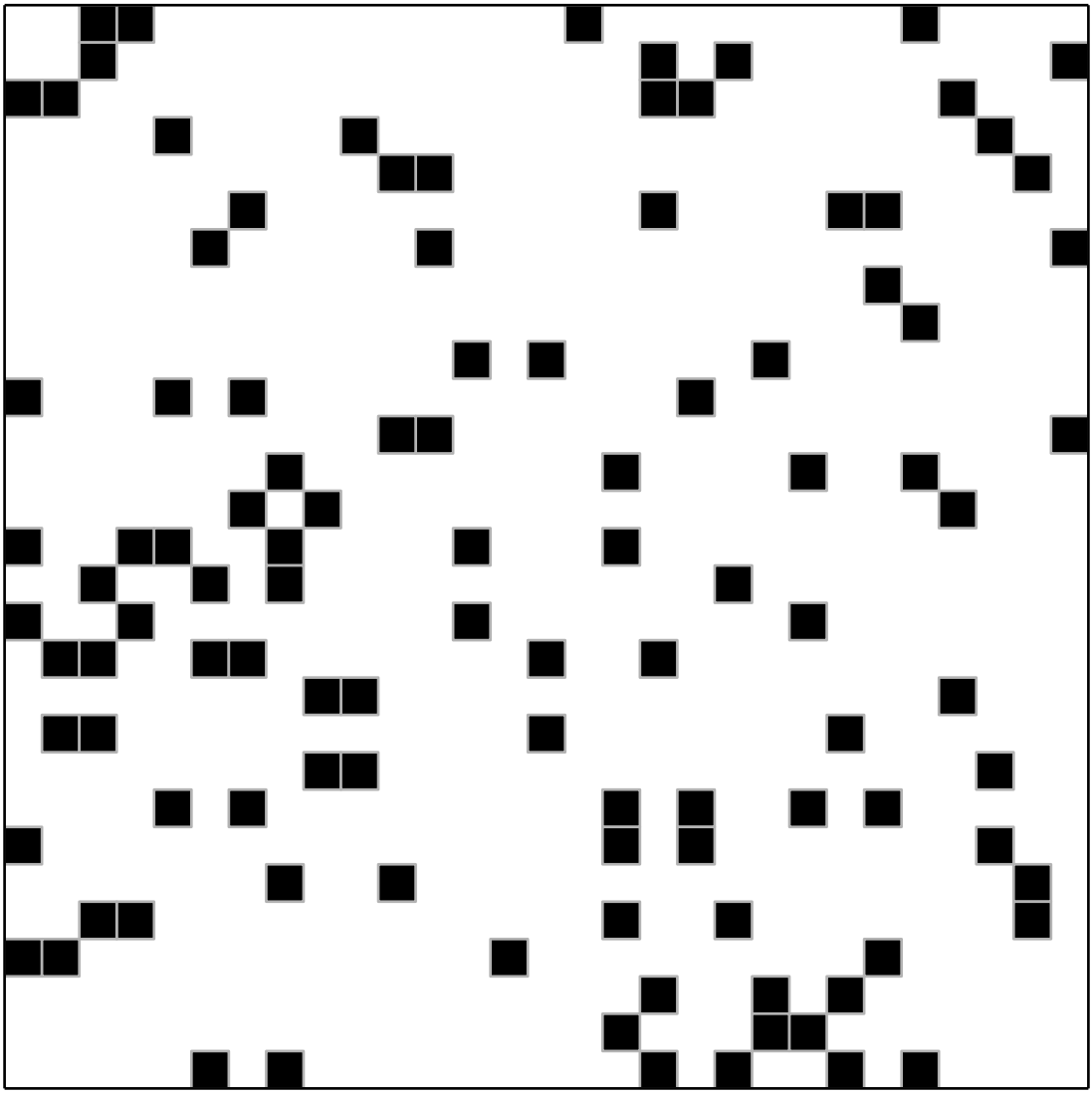

lib1_ex5_4_3-04, cost: 5, diff: 5, explored: 71, time: 0.02s

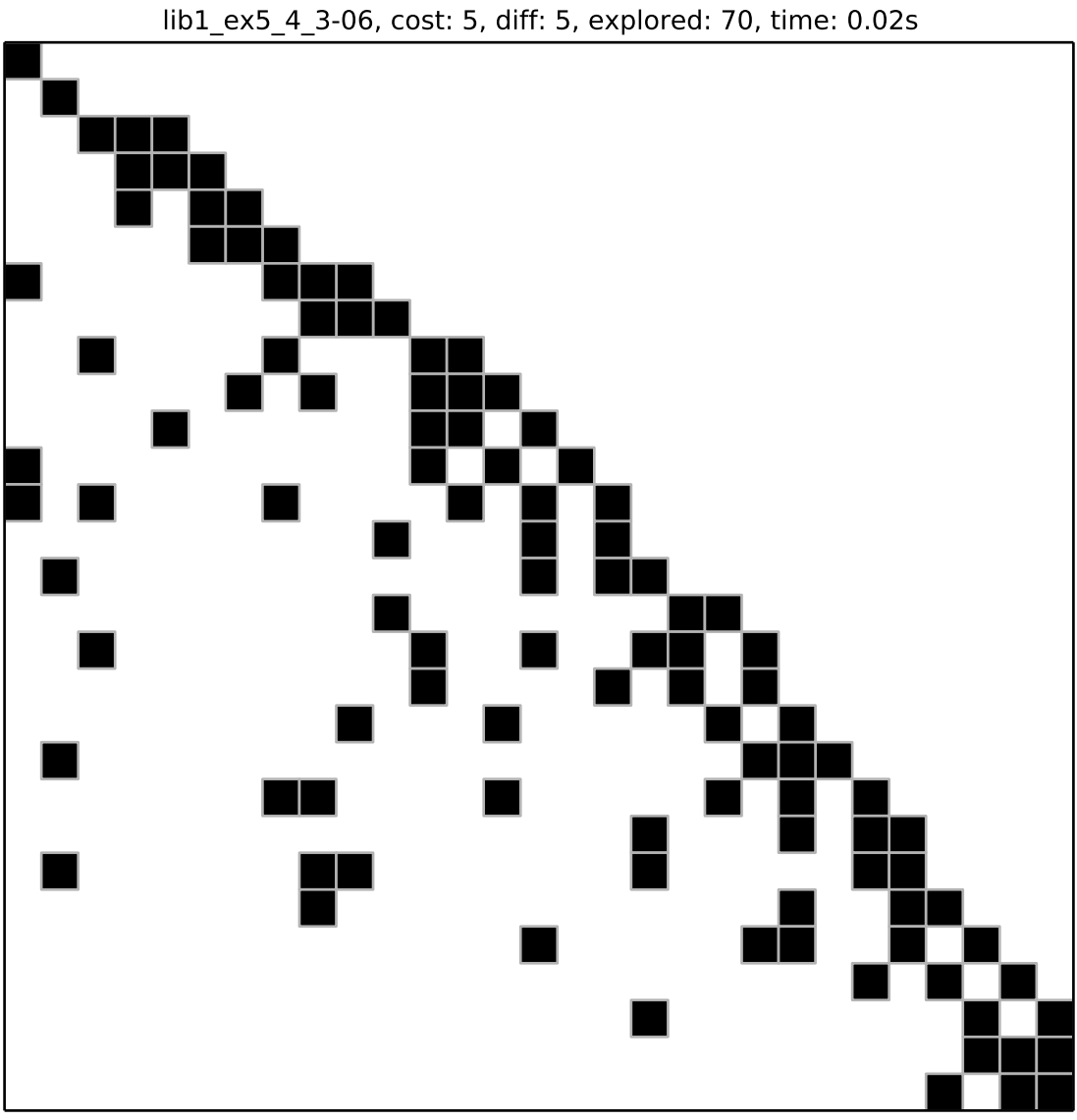
lib1_ex5_4_3-05 29x29 (109) con: 13, var: 16



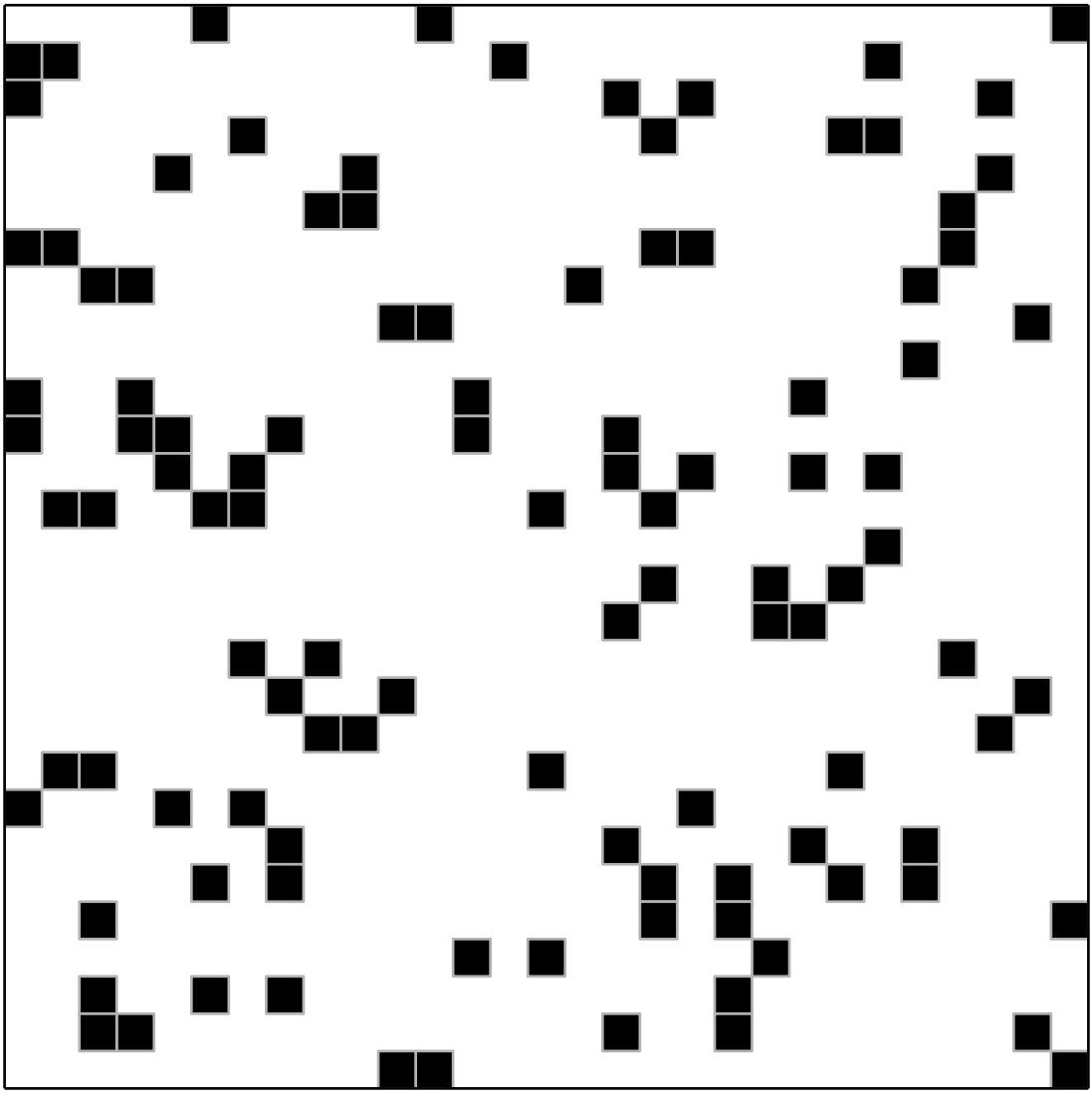

lib1_ex5_4_3-05, cost: 5, diff: 5, explored: 75, time: 0.02s

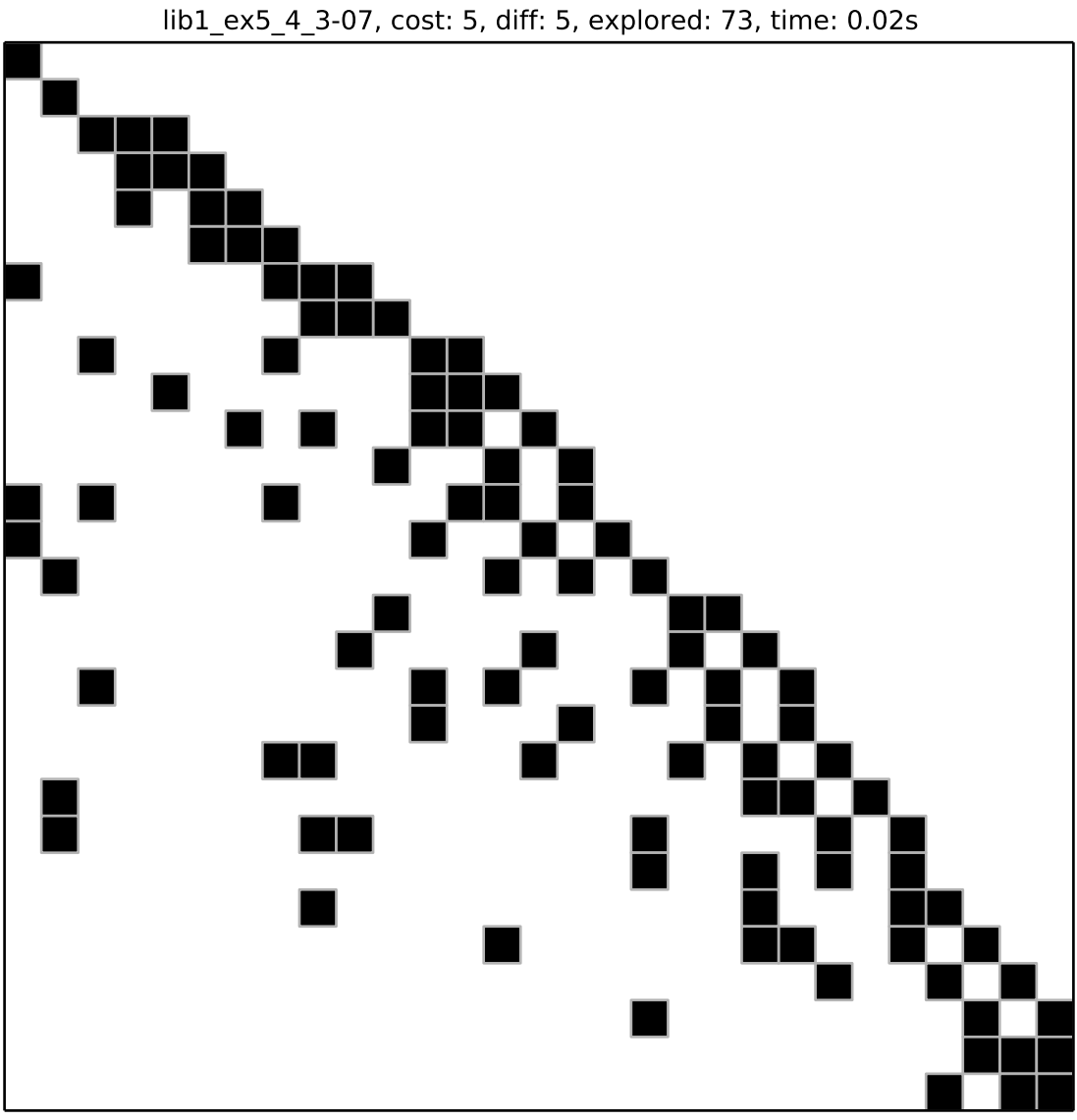
lib1_ex5_4_3-06 29x29 (109) con: 13, var: 16



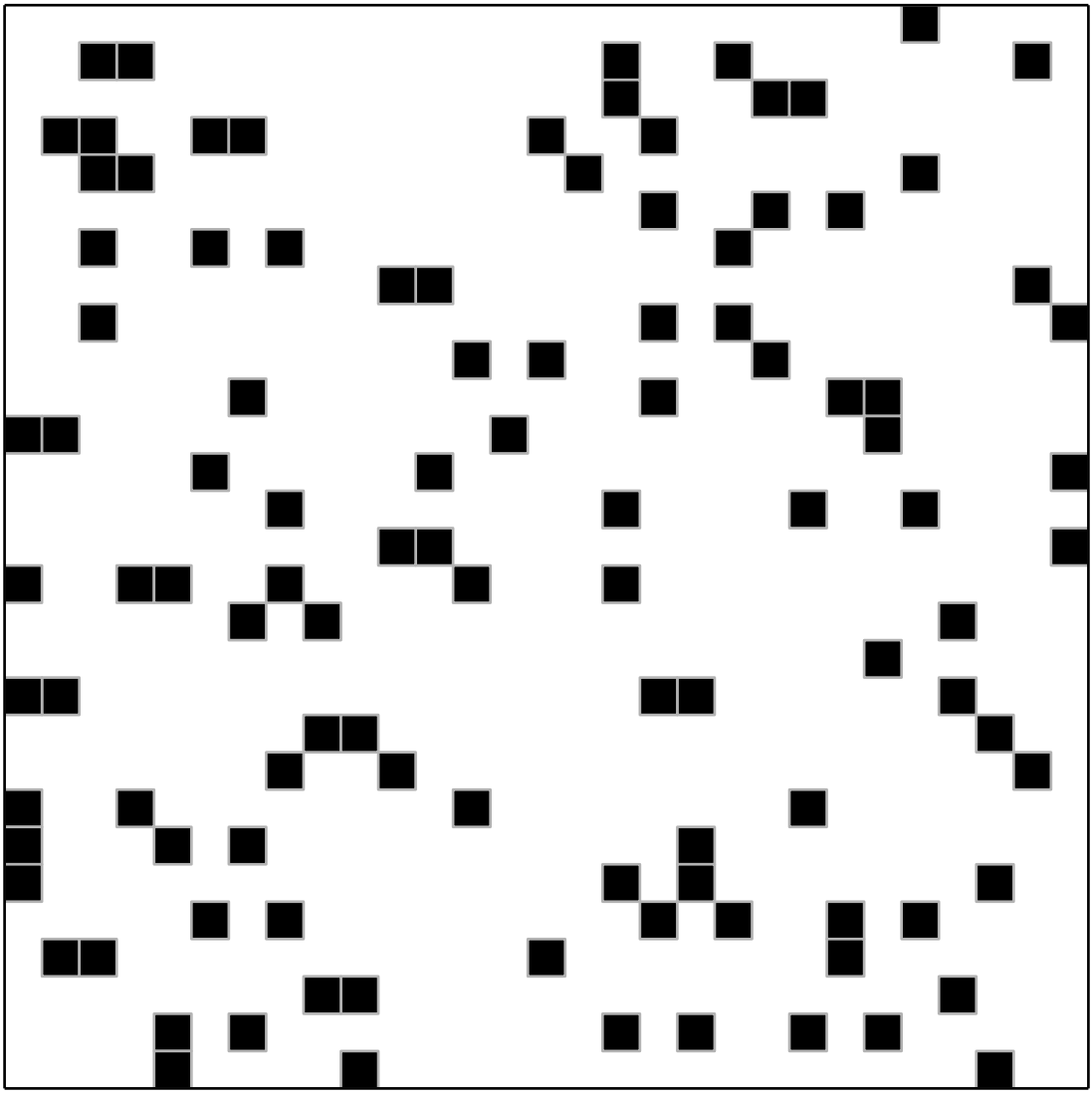

lib1_ex5_4_3-06, cost: 5, diff: 5, explored: 70, time: 0.02s

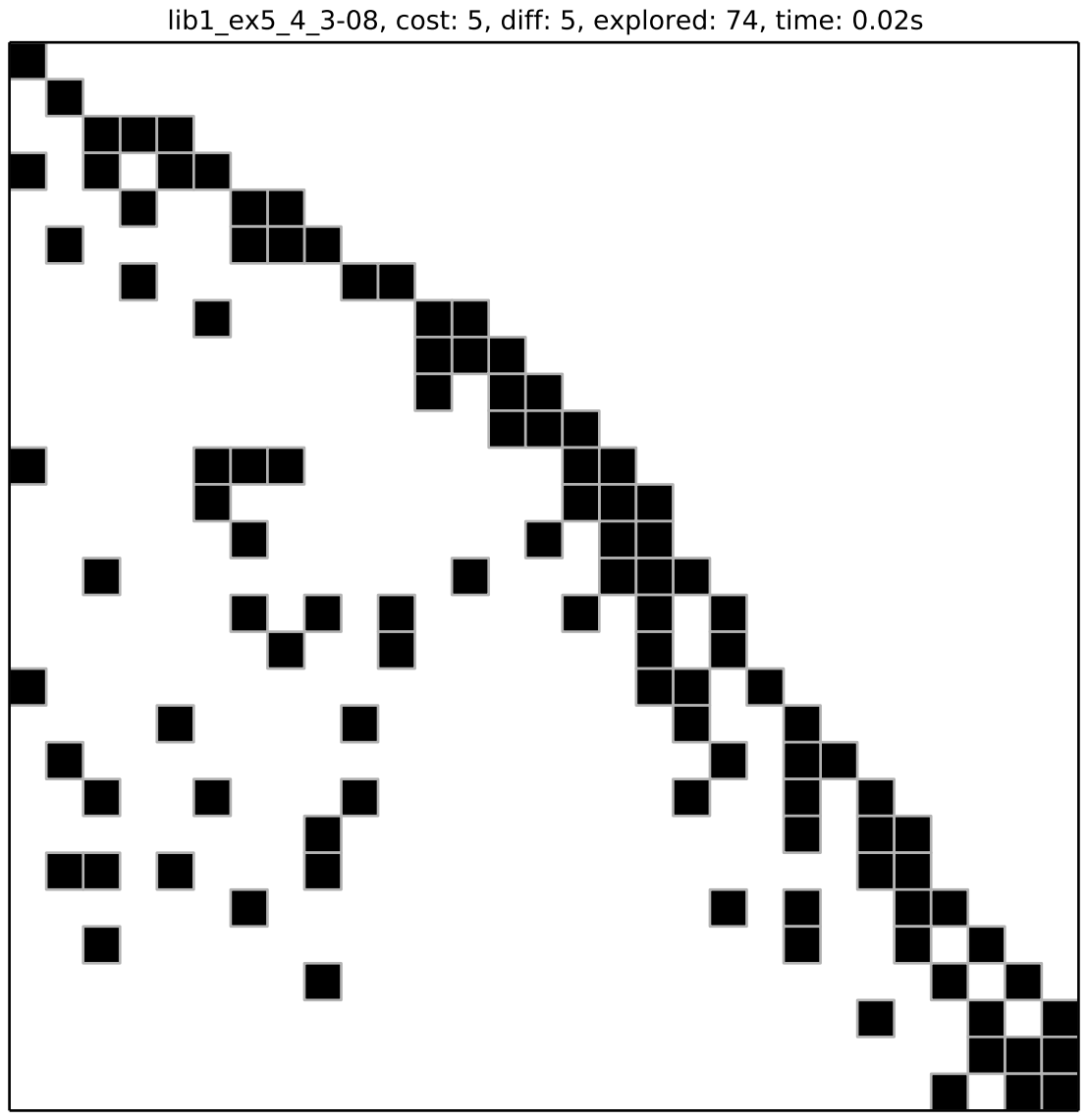
lib1_ex5_4_3-07 29x29 (109) con: 13, var: 16



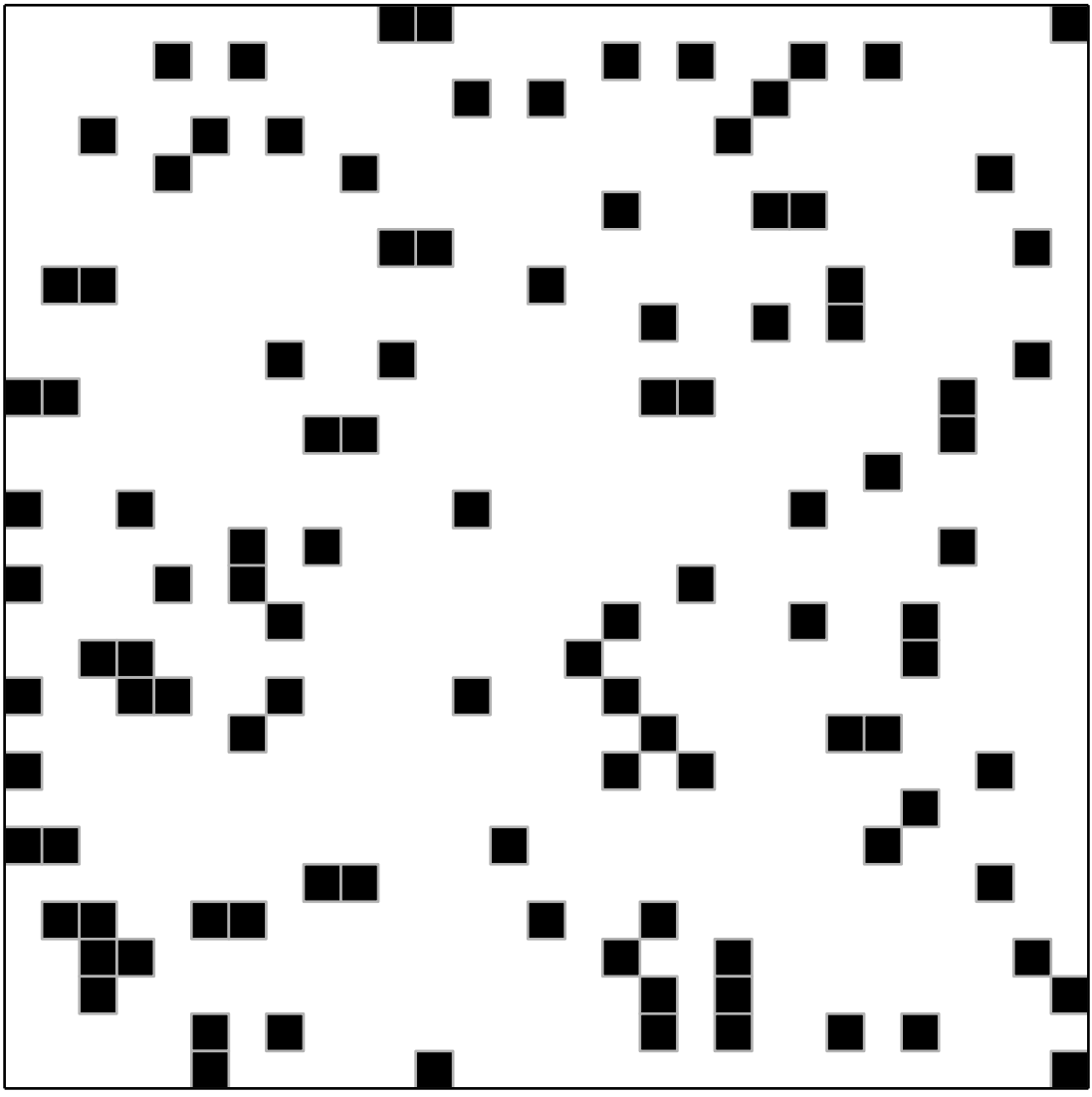

lib1_ex5_4_3-07, cost: 5, diff: 5, explored: 73, time: 0.02s

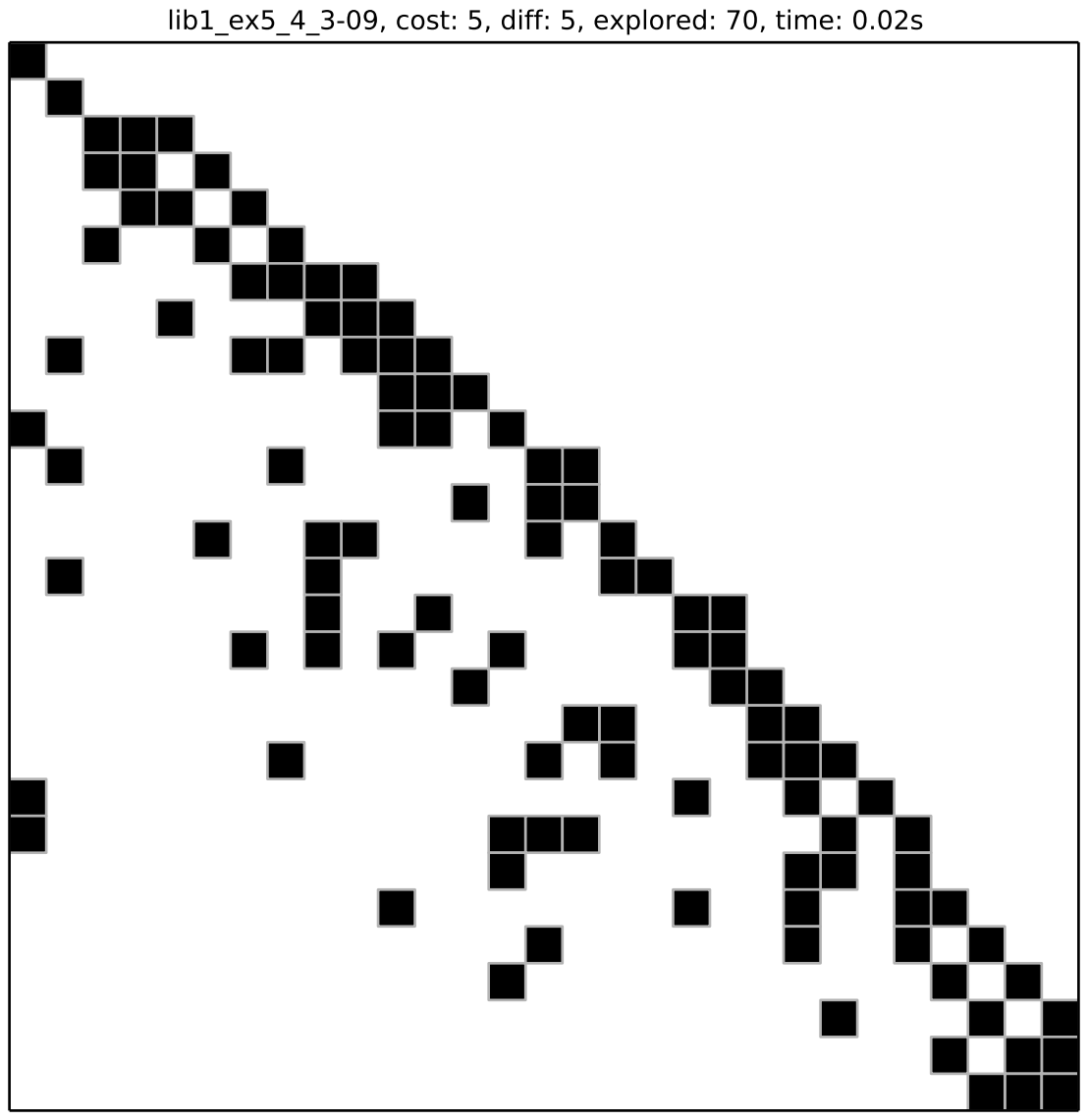
lib1_ex5_4_3-08 29x29 (109) con: 13, var: 16

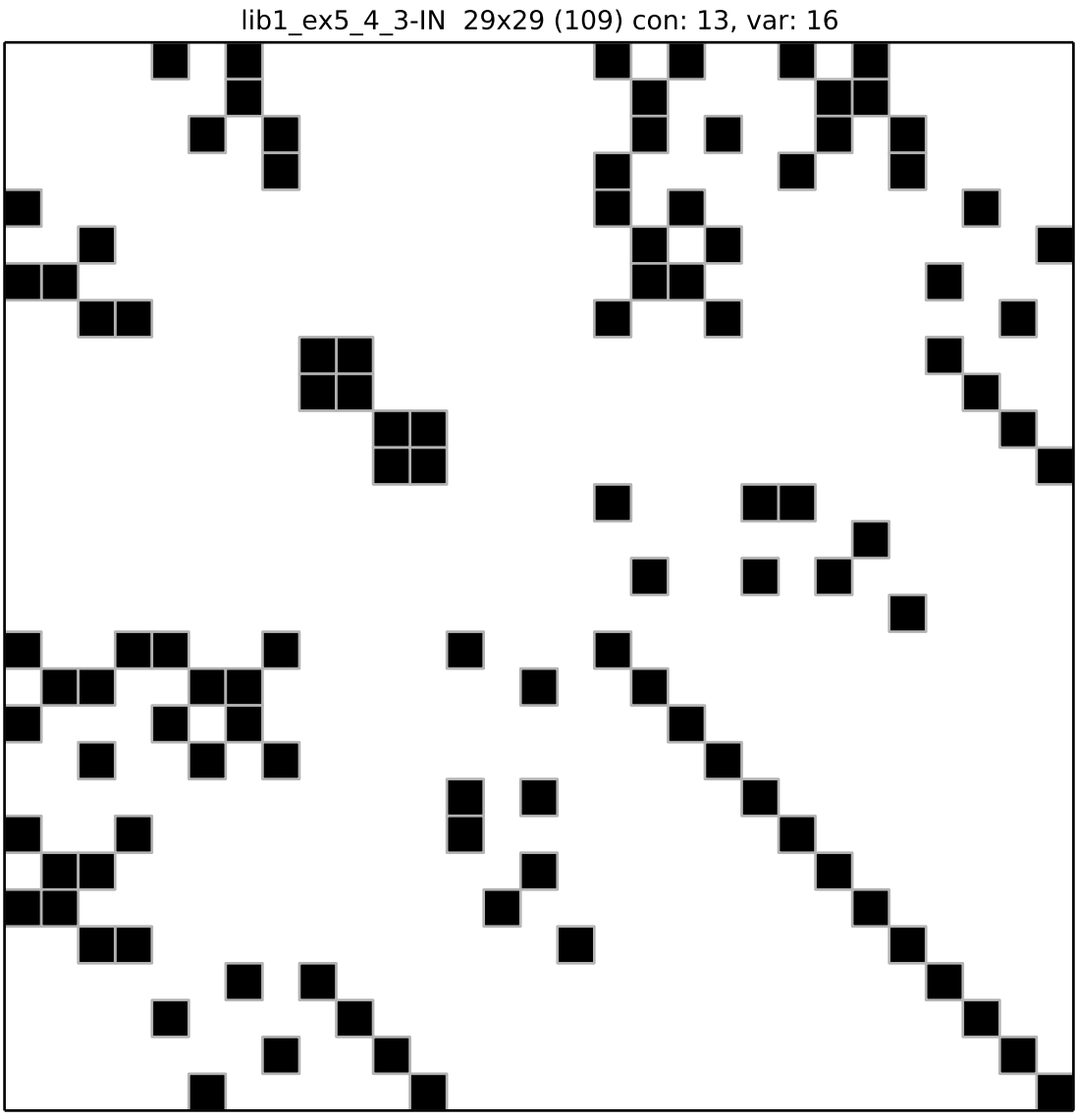


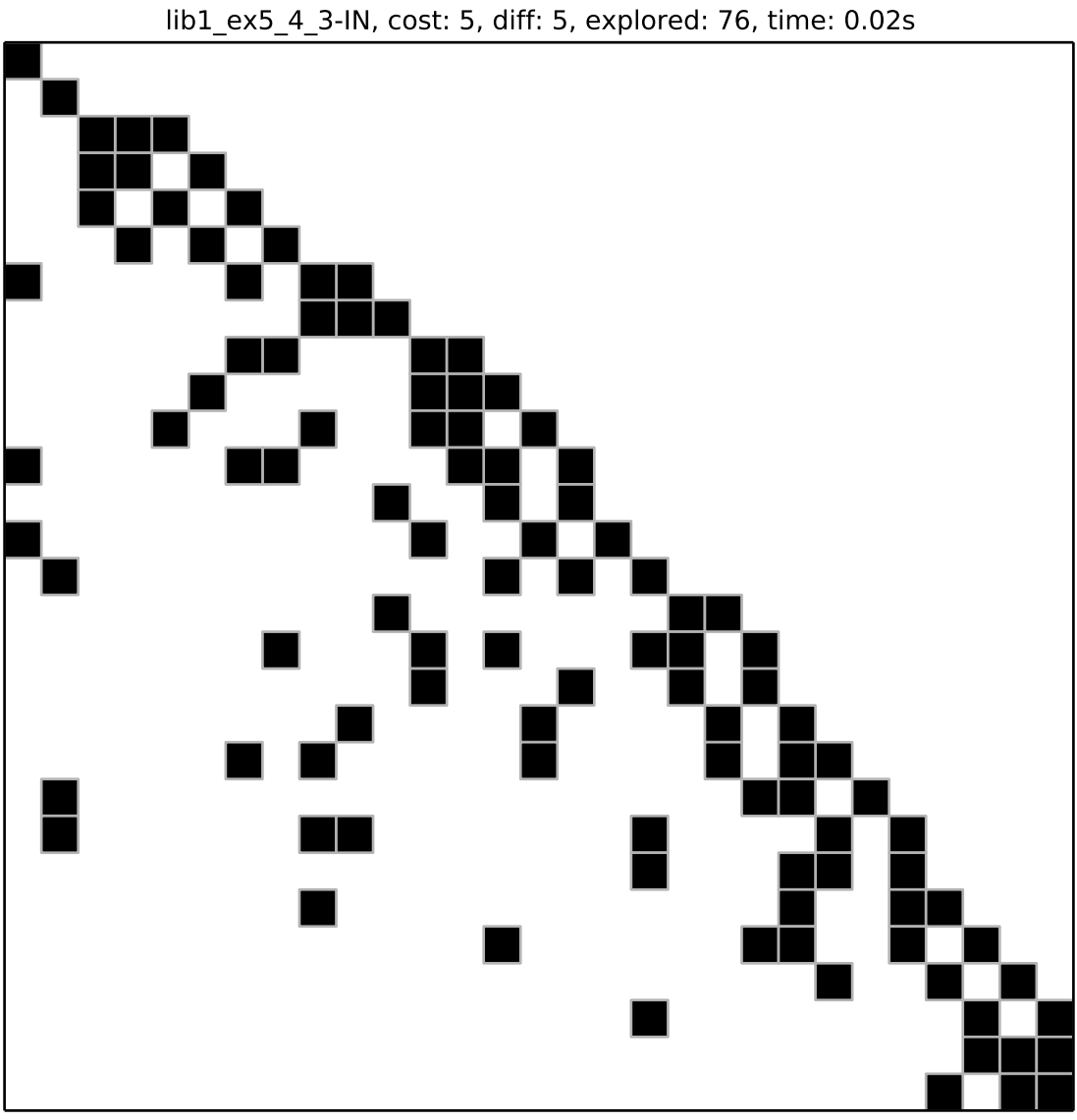

lib1_ex5_4_3-08, cost: 5, diff: 5, explored: 74, time: 0.02s

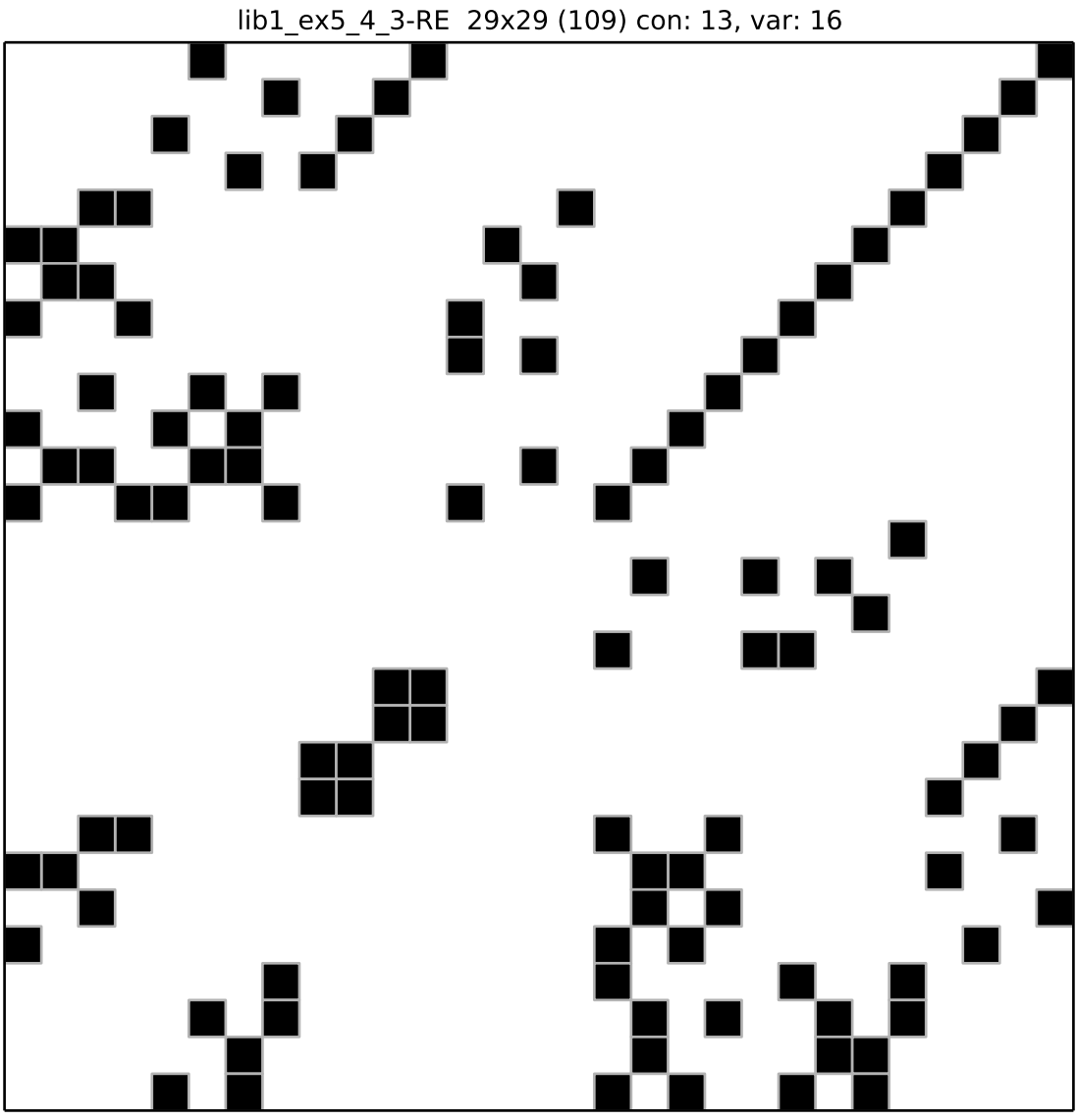
lib1_ex5_4_3-09 29x29 (109) con: 13, var: 16



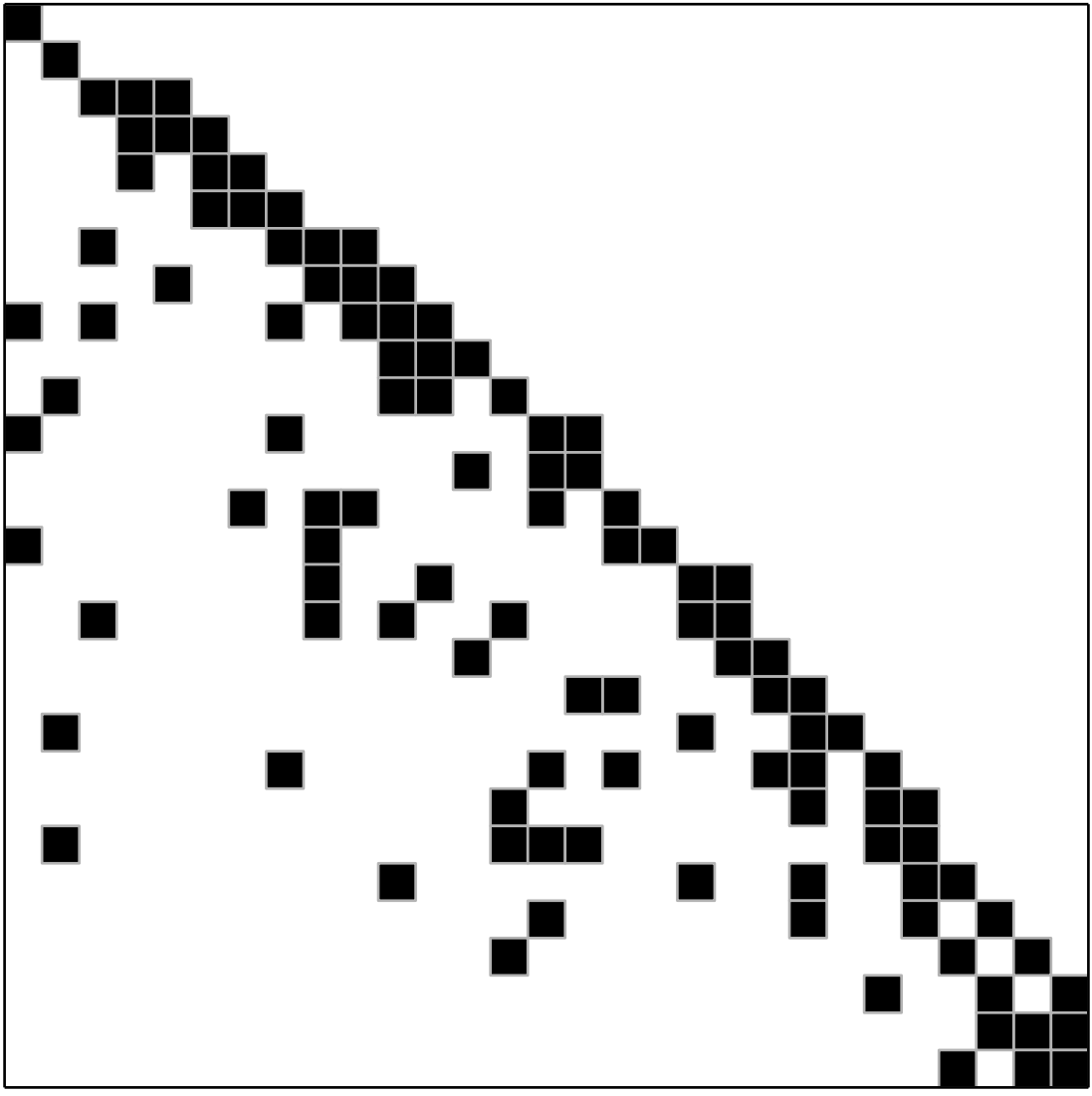

lib1_ex5_4_3-09, cost: 5, diff: 5, explored: 70, time: 0.02s

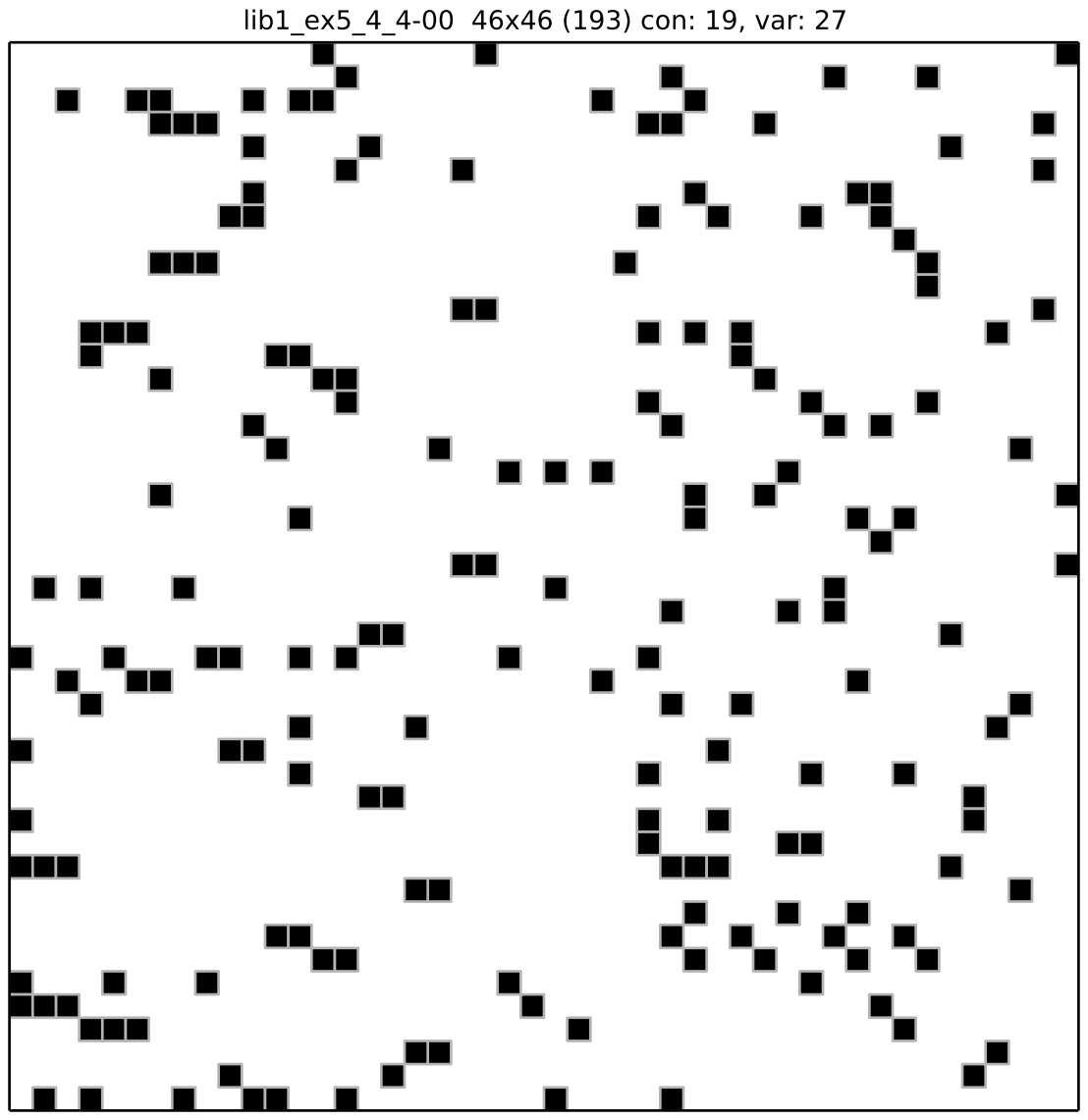

lib1_ex5_4_3-IN 29x29 (109) con: 13, var: 16


lib1_ex5_4_3-IN, cost: 5, diff: 5, explored: 76, time: 0.02s


lib1_ex5_4_3-RE 29x29 (109) con: 13, var: 16

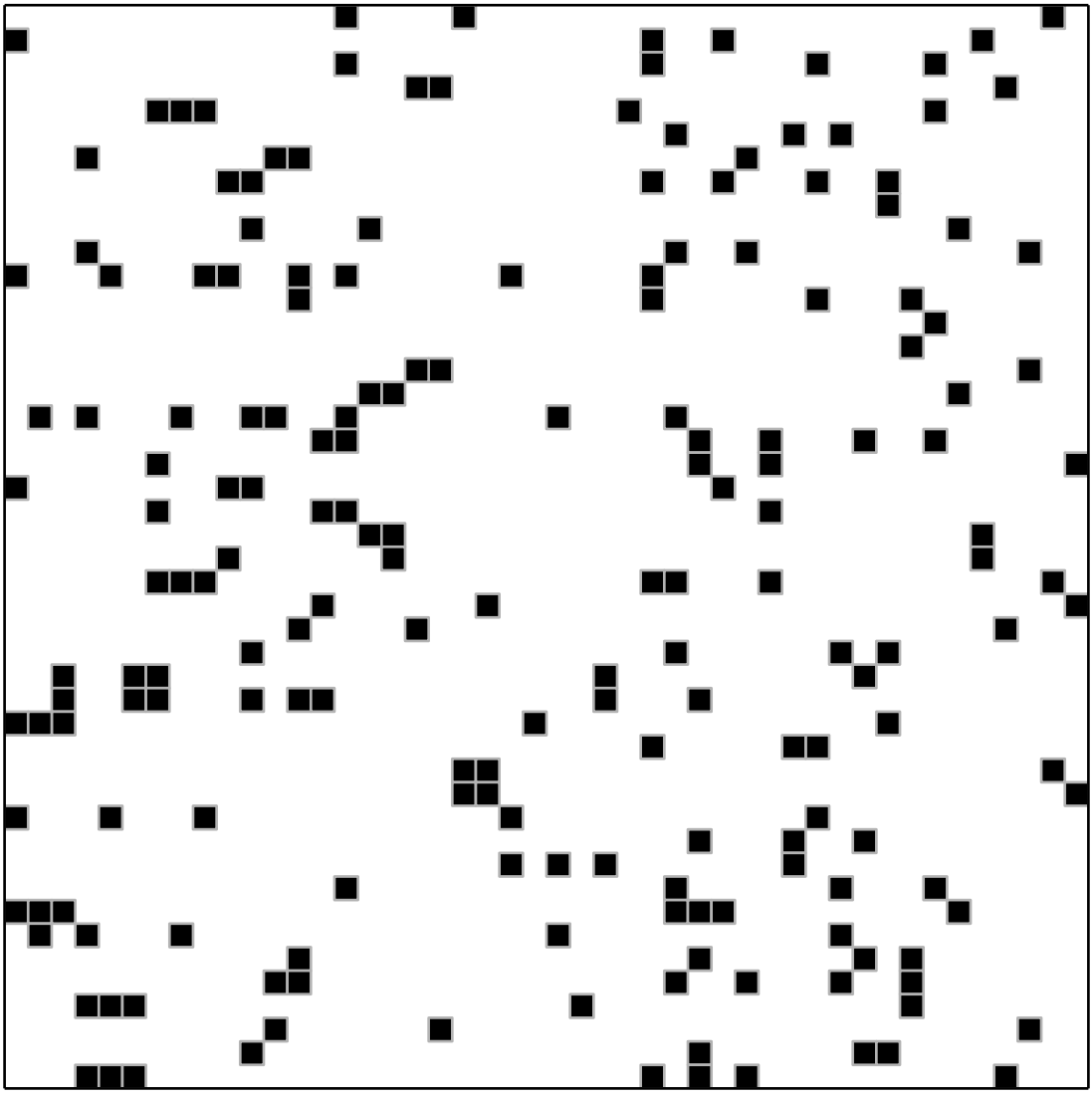
lib1_ex5_4_3-RE, cost: 5, diff: 5, explored: 70, time: 0.02s



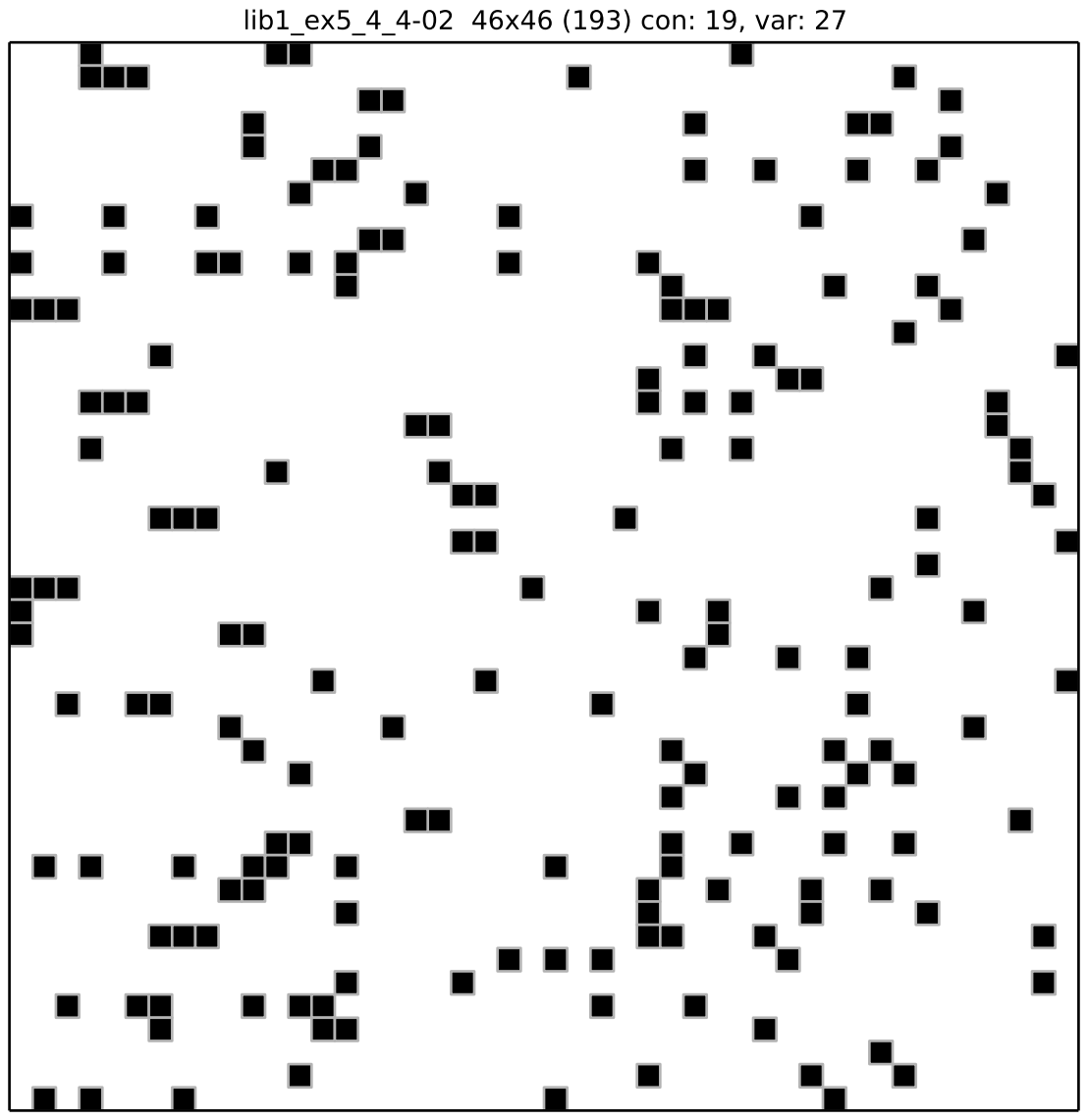

lib1_ex5_4_4-00 46x46 (193) con: 19, var: 27

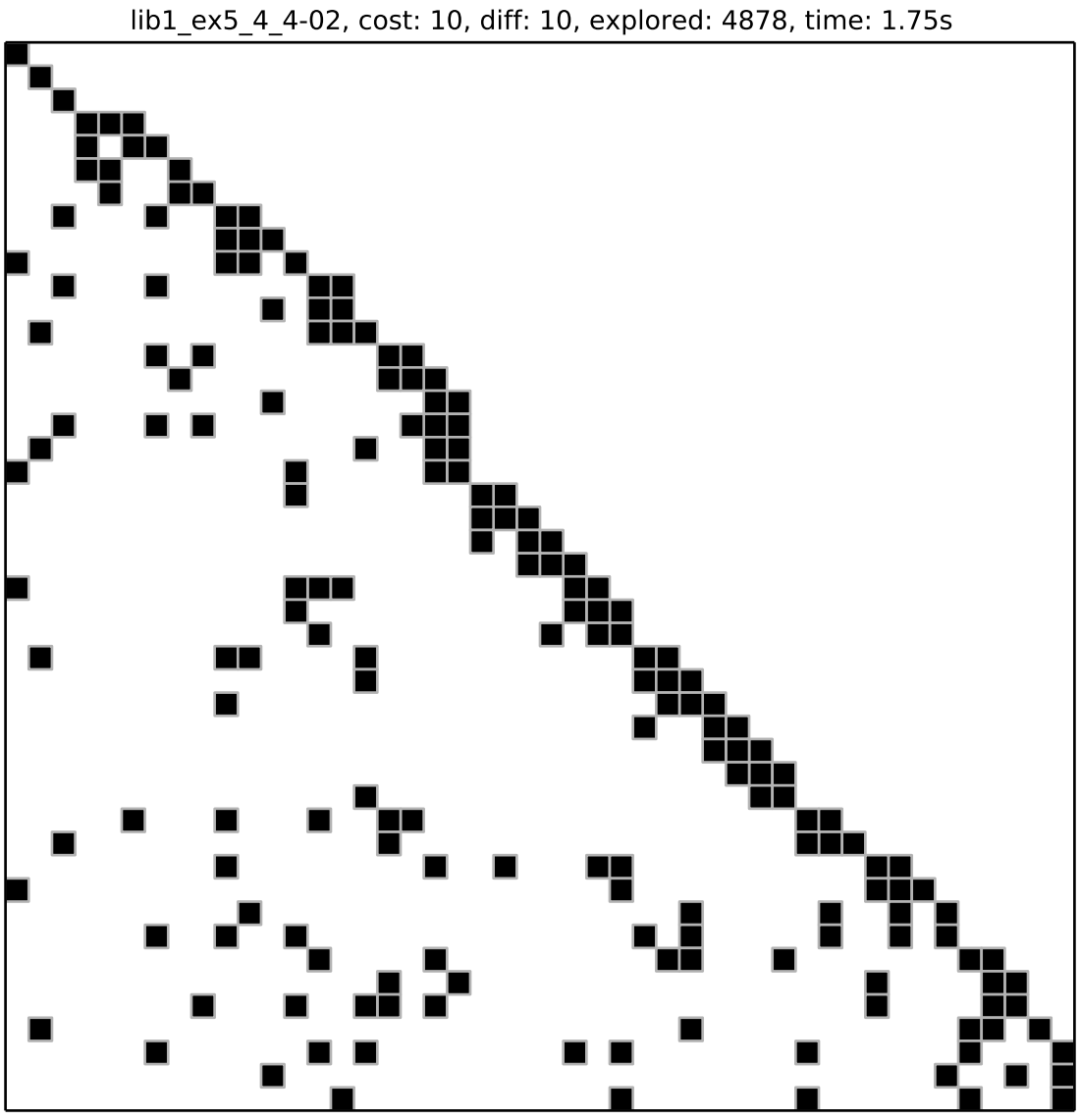
lib1_ex5_4_4-00, cost: 10, diff: 10, explored: 4900, time: 1.71s

lib1_ex5_4_4-01 46x46 (193) con: 19, var: 27

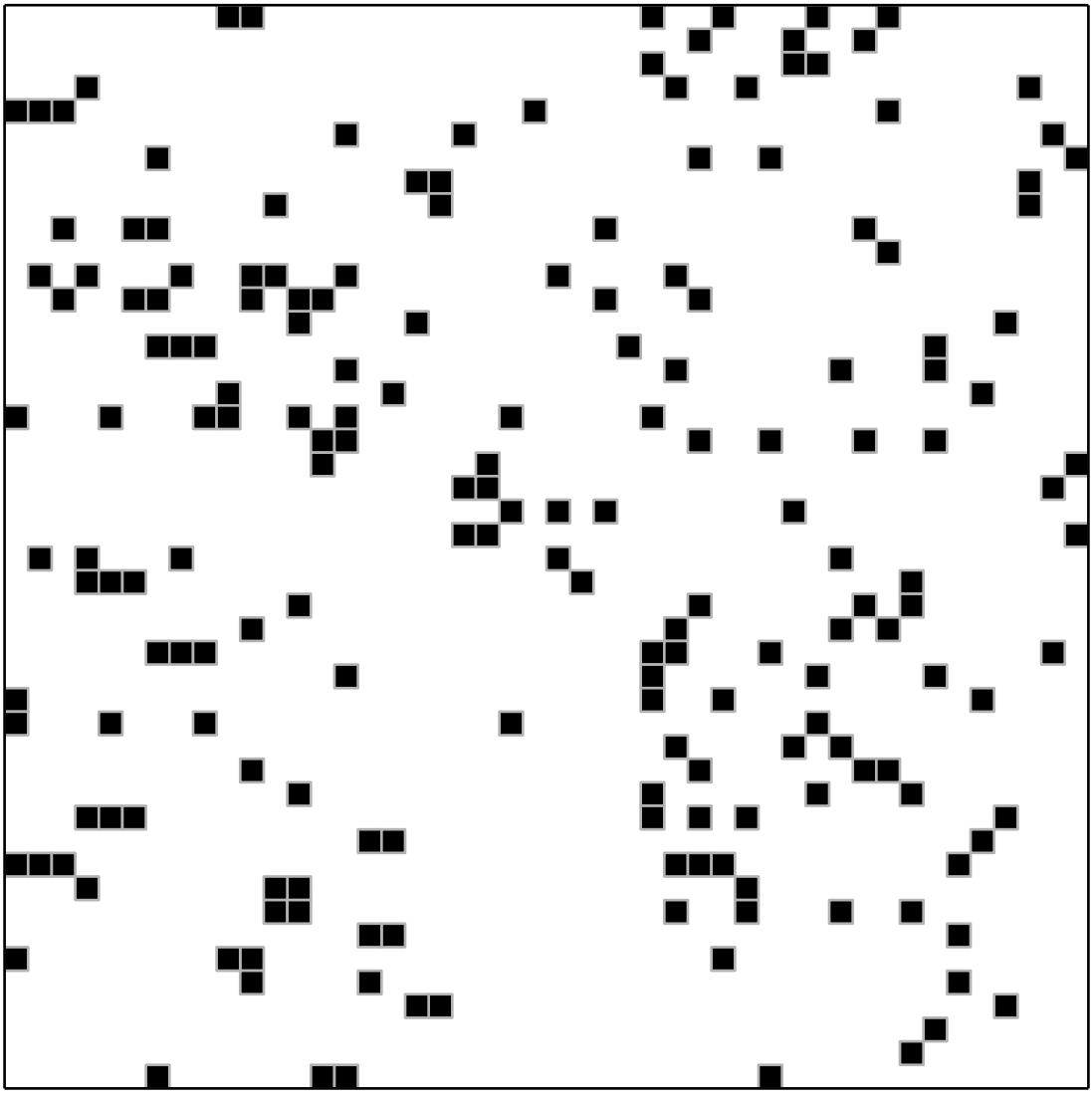


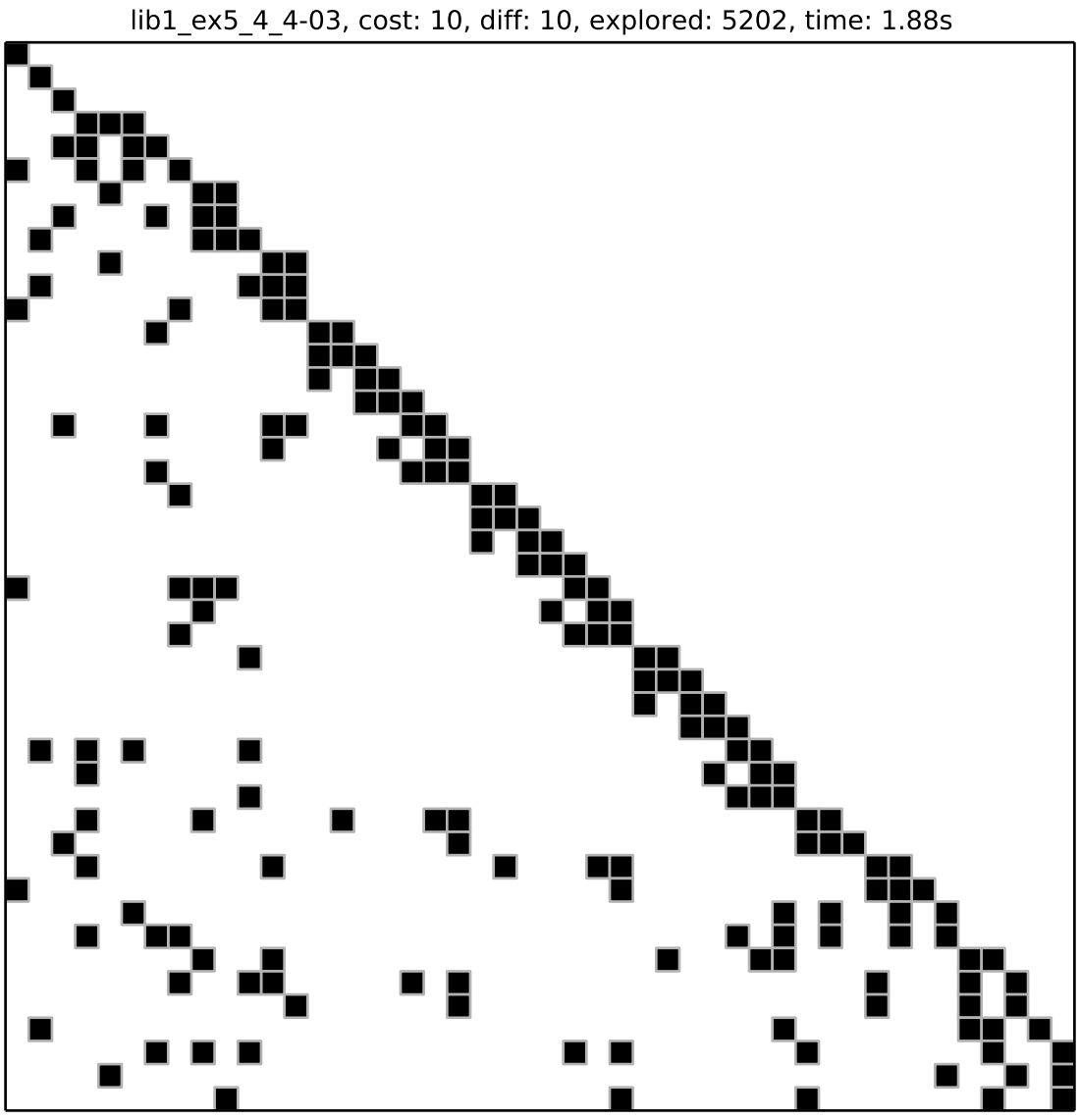
lib1_ex5_4_4-01, cost: 10, diff: 10, explored: 4958, time: 1.74s


lib1_ex5_4_4-02 46x46 (193) con: 19, var: 27

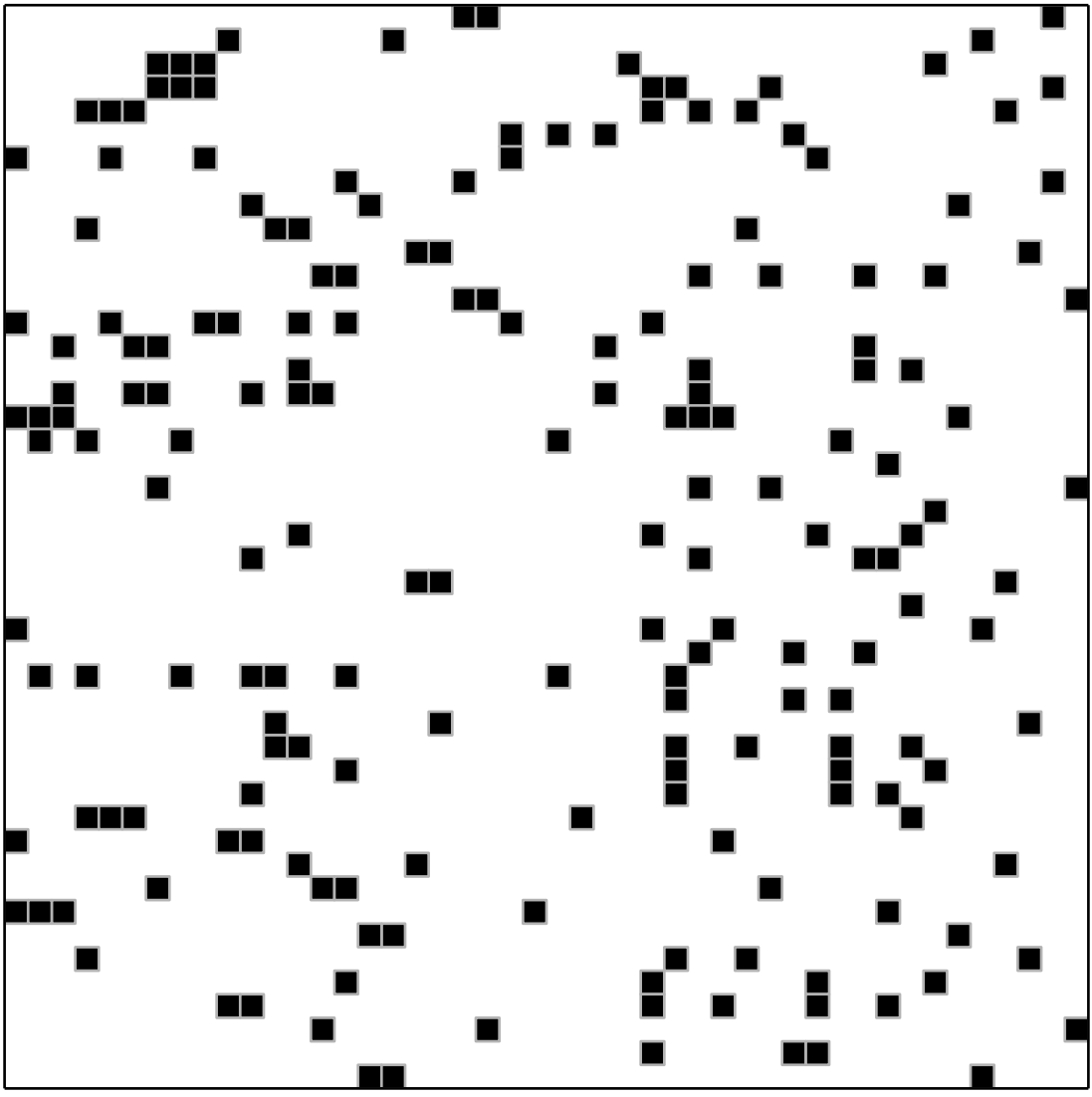

lib1_ex5_4_4-02, cost: 10, diff: 10, explored: 4878, time: 1.75s

lib1_ex5_4_4-03 46x46 (193) con: 19, var: 27

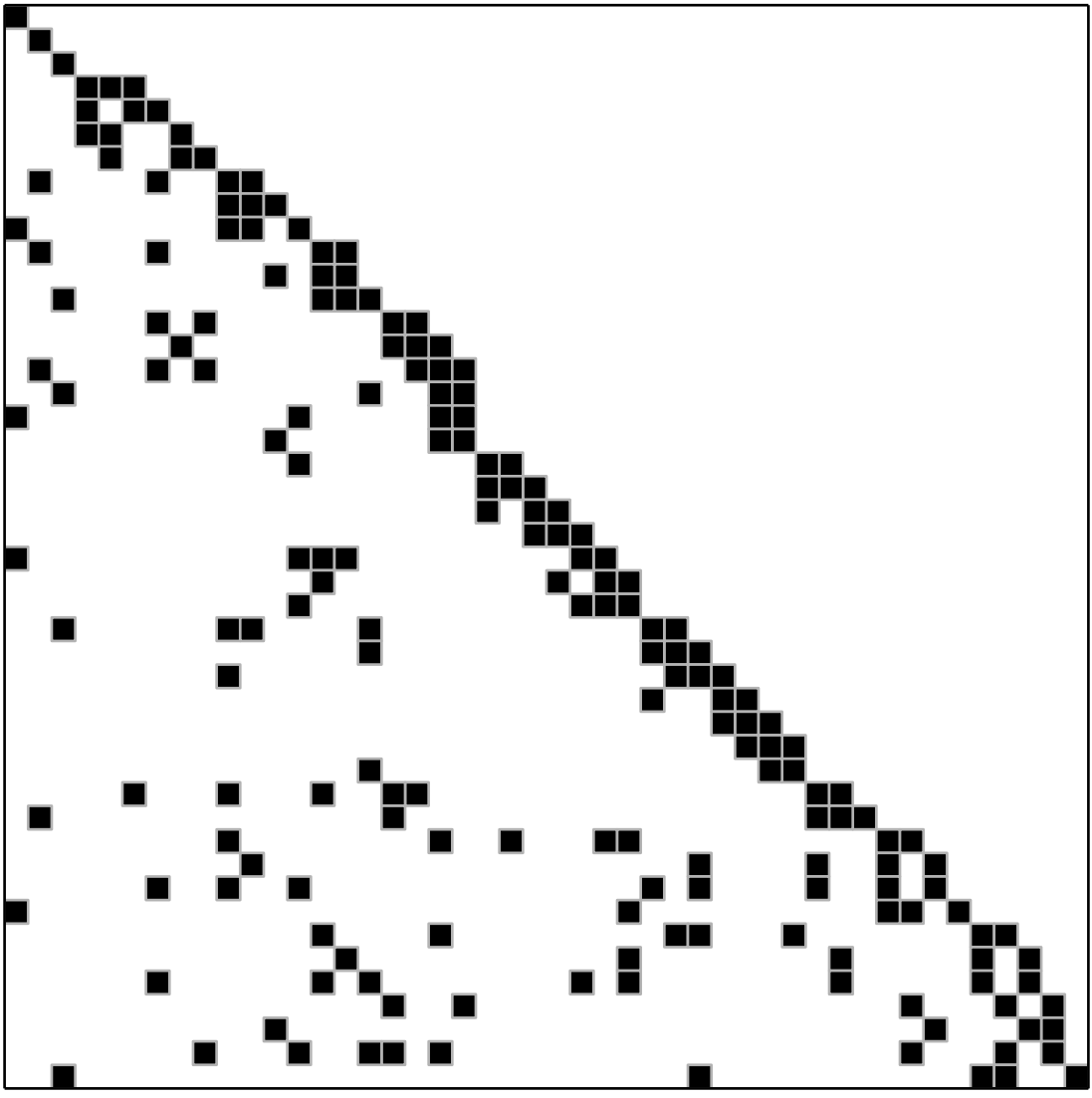


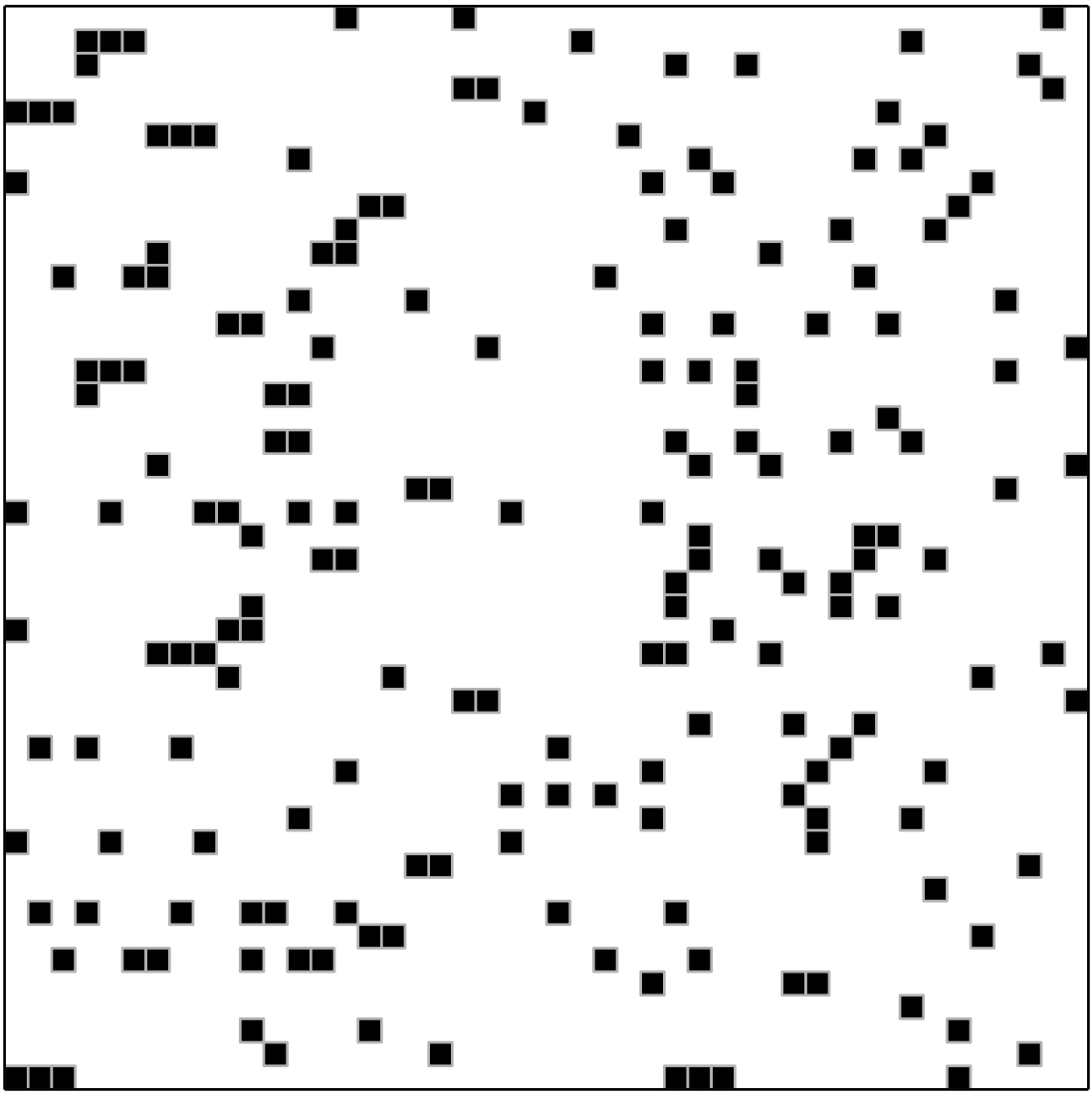

lib1_ex5_4_4-03, cost: 10, diff: 10, explored: 5202, time: 1.88s

lib1_ex5_4_4-04 46x46 (193) con: 19, var: 27

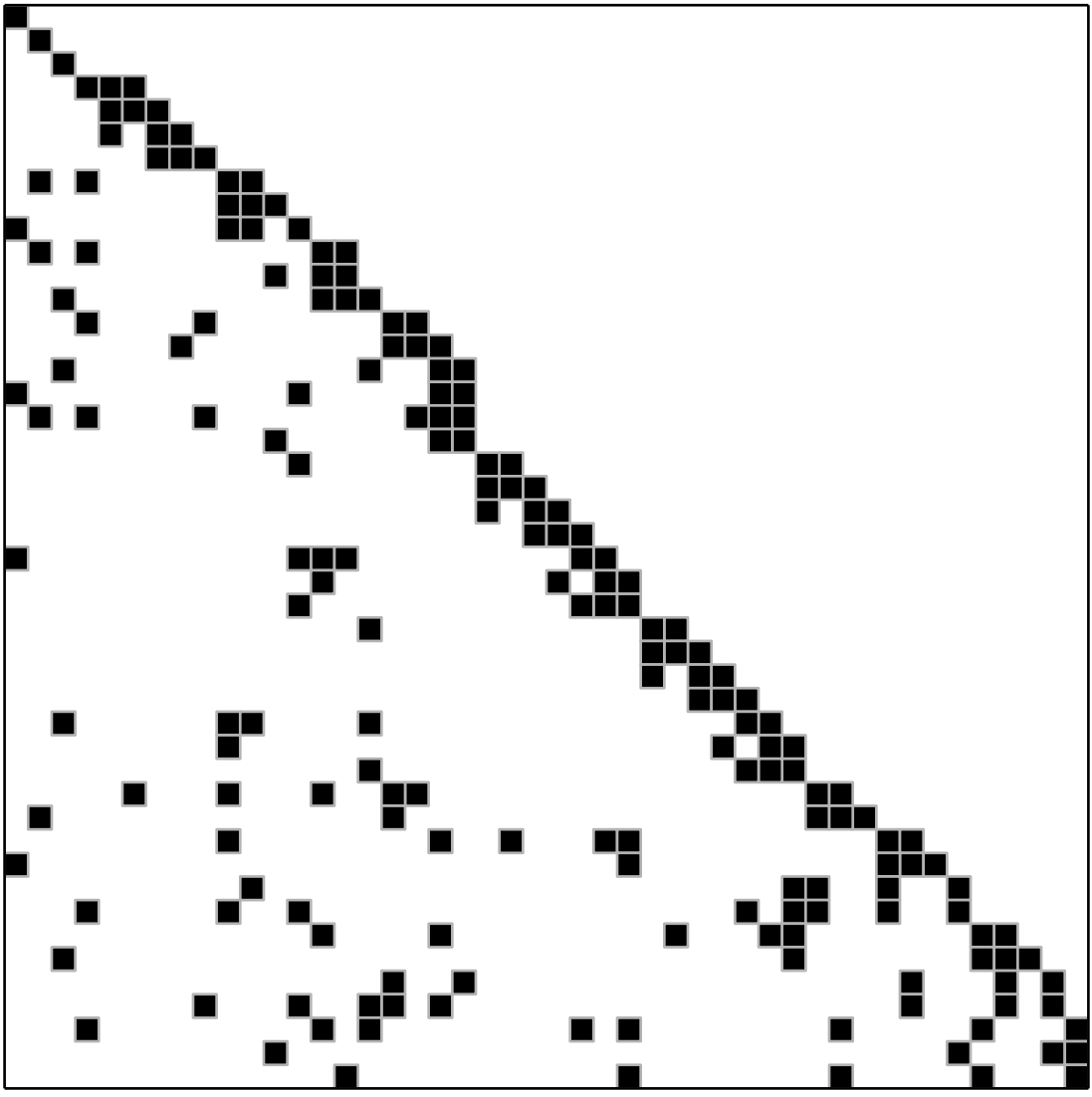


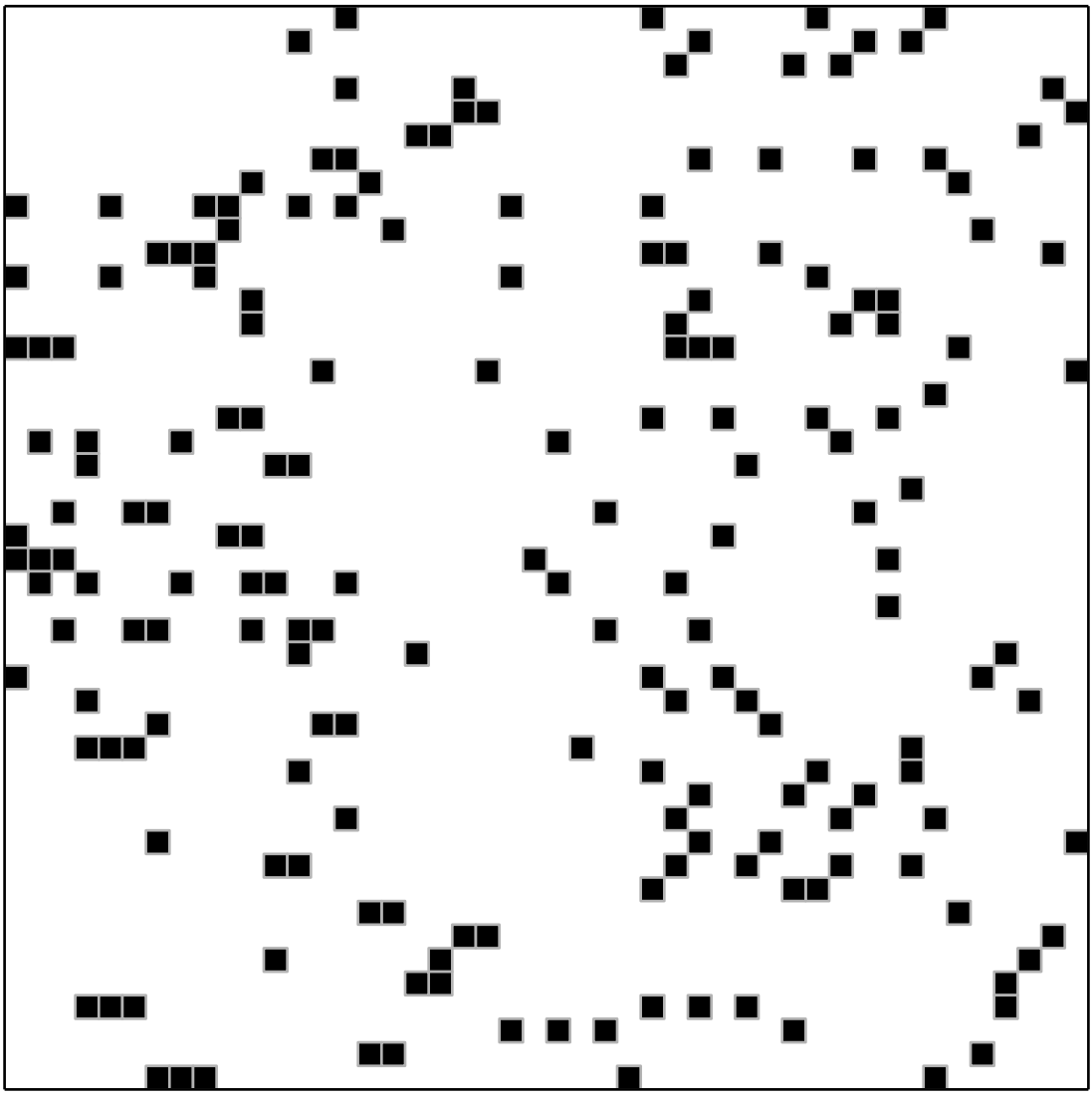
lib1_ex5_4_4-04, cost: 10, diff: 10, explored: 4818, time: 1.74s

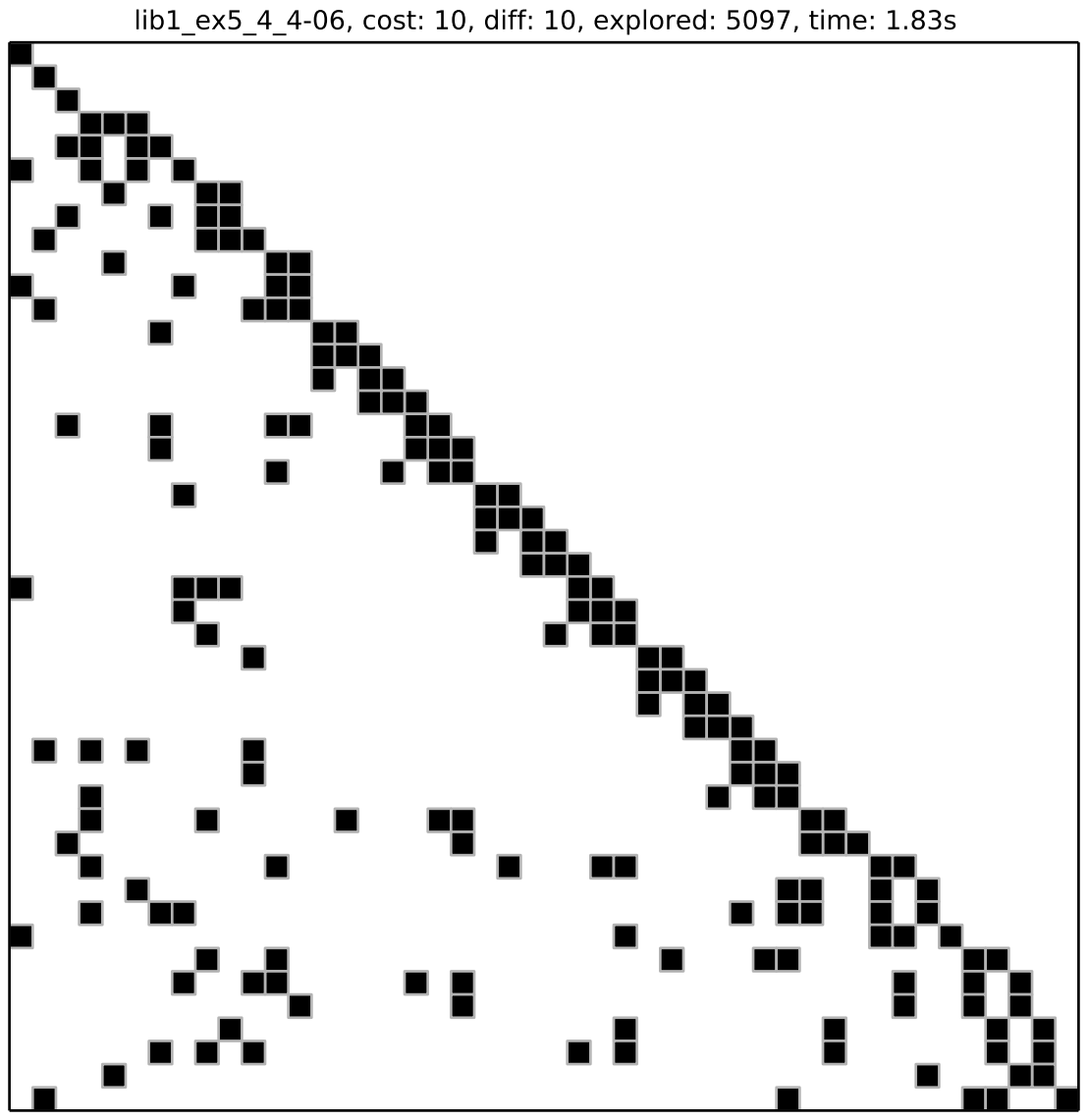



lib1_ex5_4_4-05 46x46 (193) con: 19, var: 27

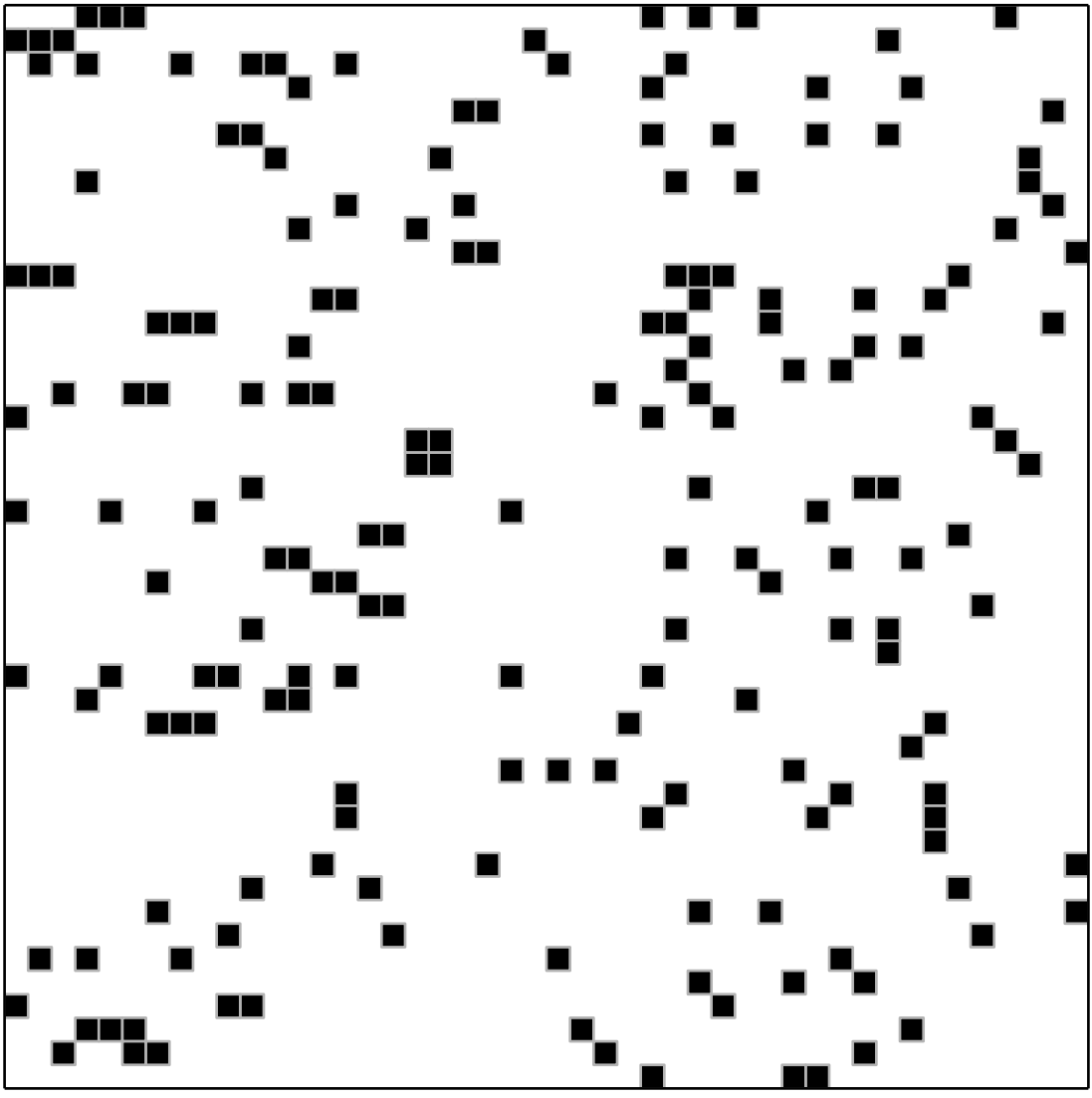
lib1_ex5_4_4-05, cost: 10, diff: 10, explored: 5112, time: 1.88s




lib1_ex5_4_4-06 46x46 (193) con: 19, var: 27

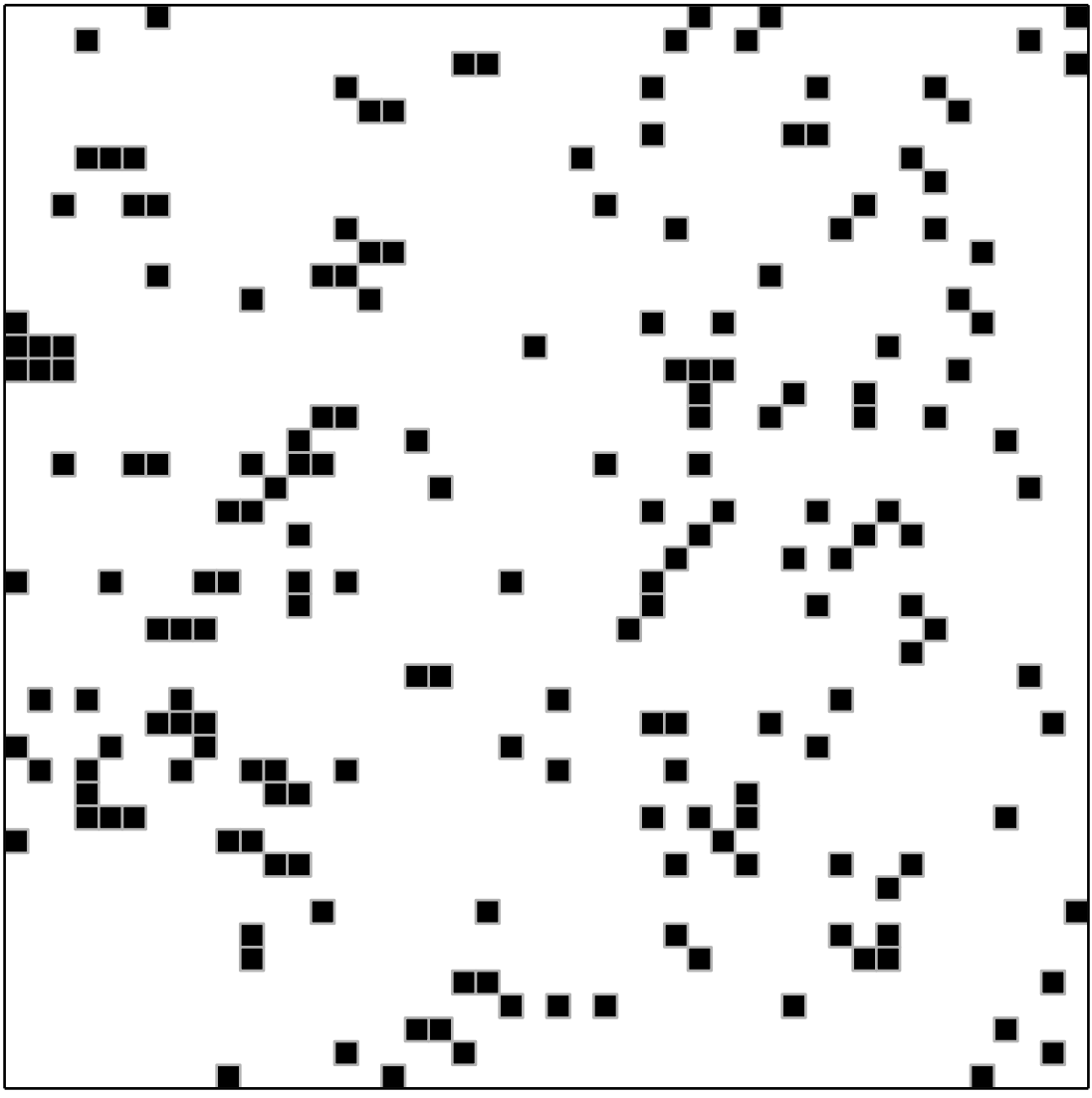

lib1_ex5_4_4-06, cost: 10, diff: 10, explored: 5097, time: 1.83s

lib1_ex5_4_4-07 46x46 (193) con: 19, var: 27

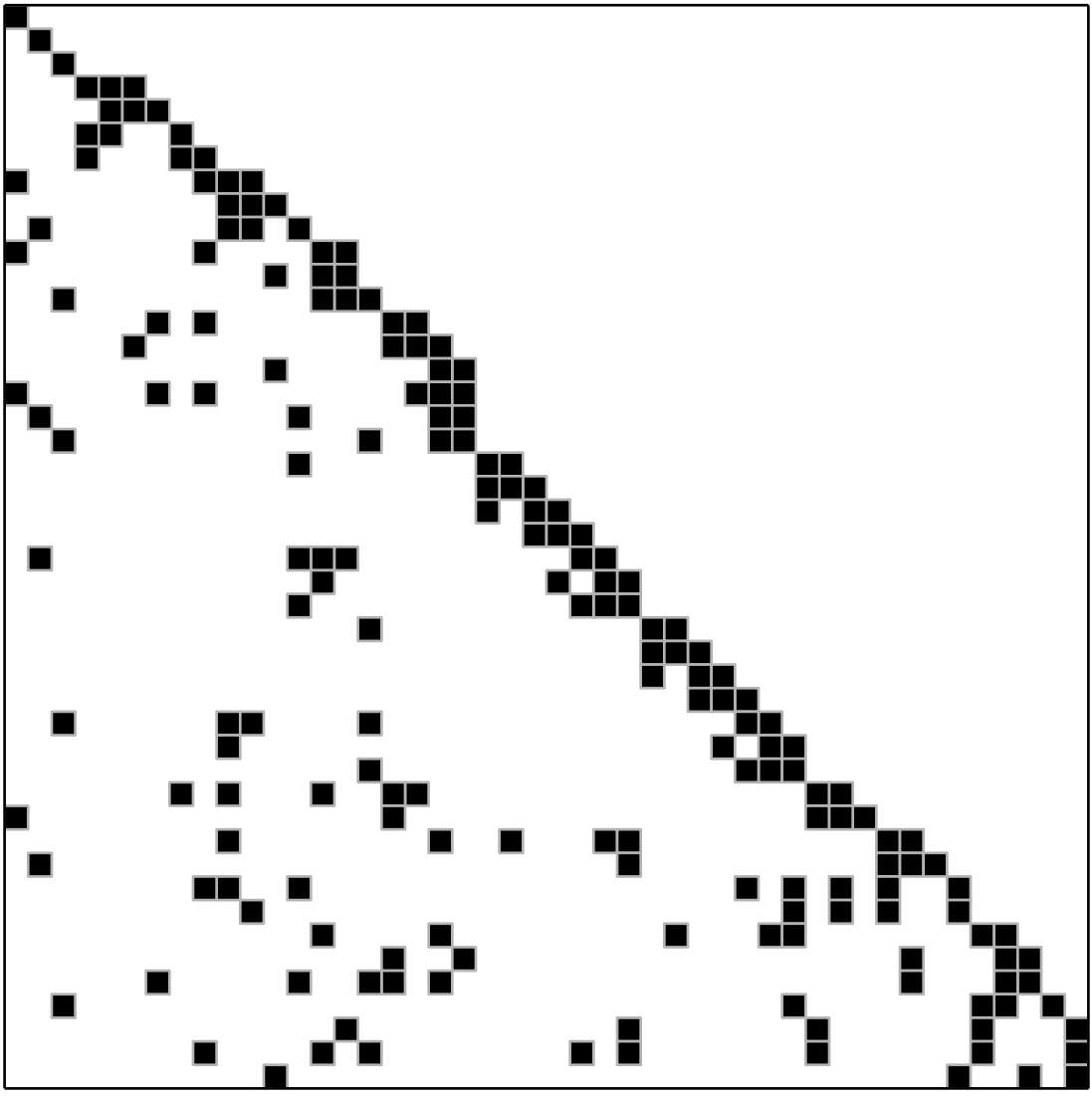


lib1_ex5_4_4-07, cost: 10, diff: 10, explored: 4852, time: 1.76s

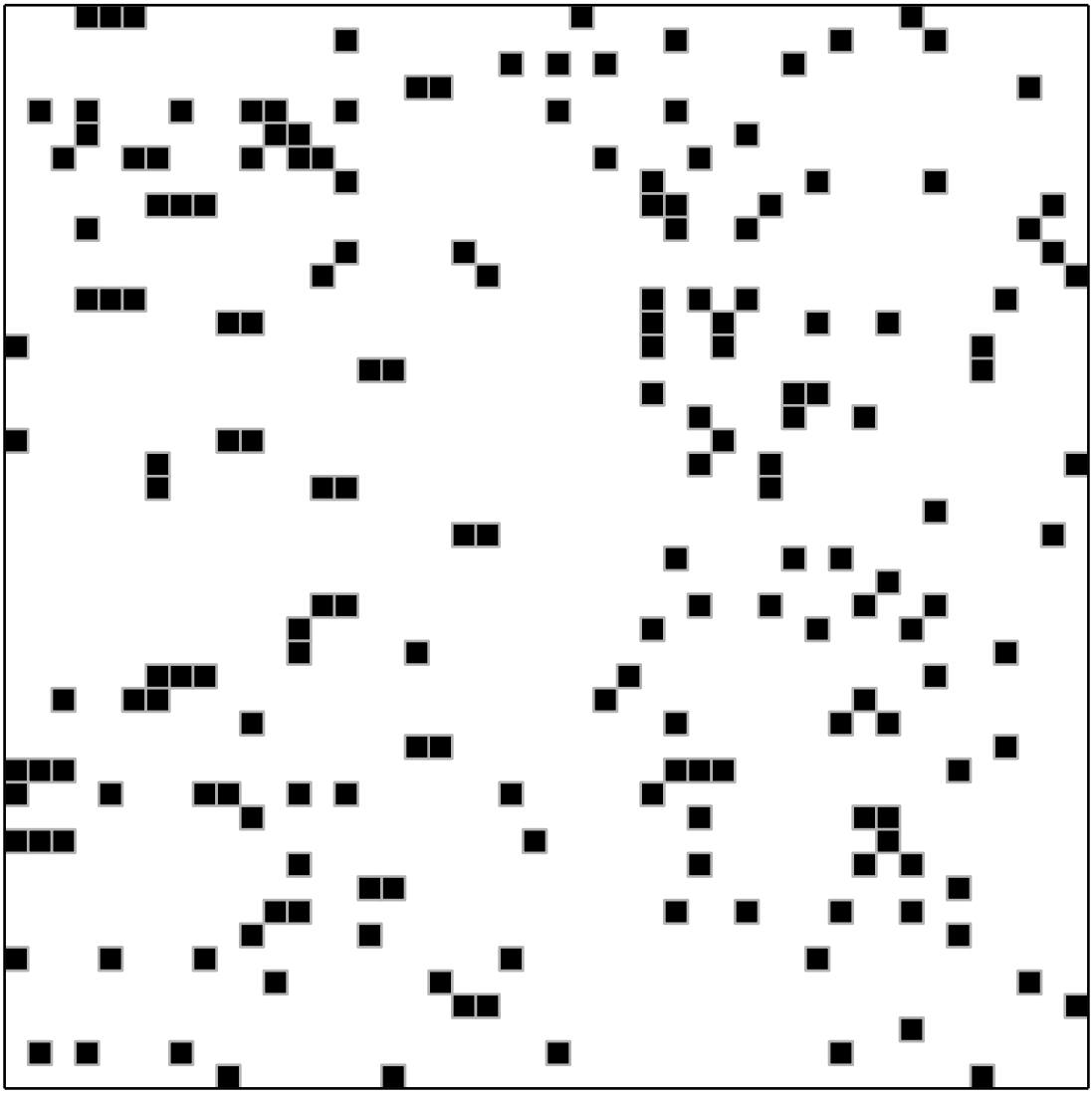
lib1_ex5_4_4-08 46x46 (193) con: 19, var: 27

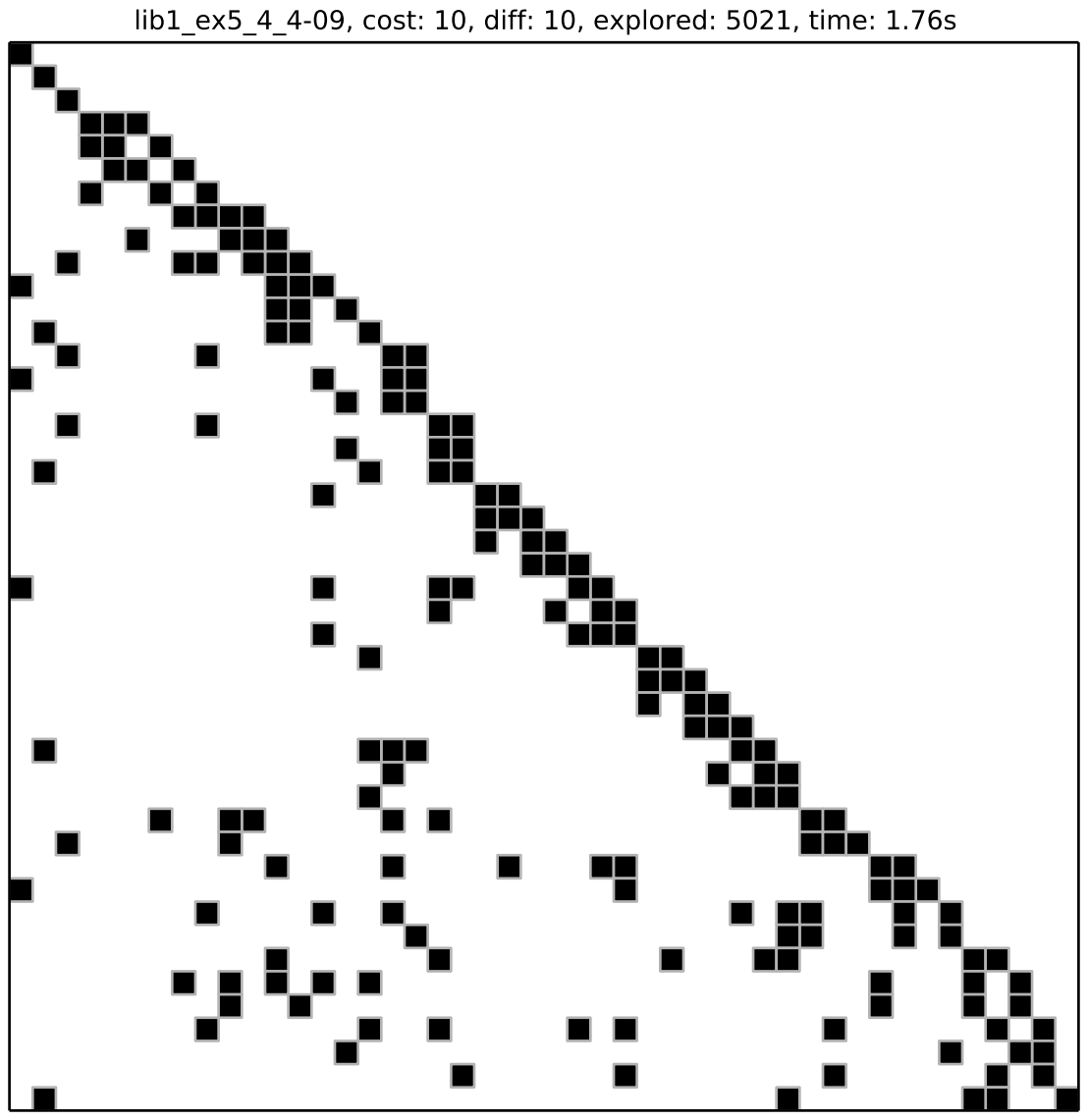


lib1_ex5_4_4-08, cost: 10, diff: 10, explored: 5247, time: 1.84s



lib1_ex5_4_4-09 46x46 (193) con: 19, var: 27

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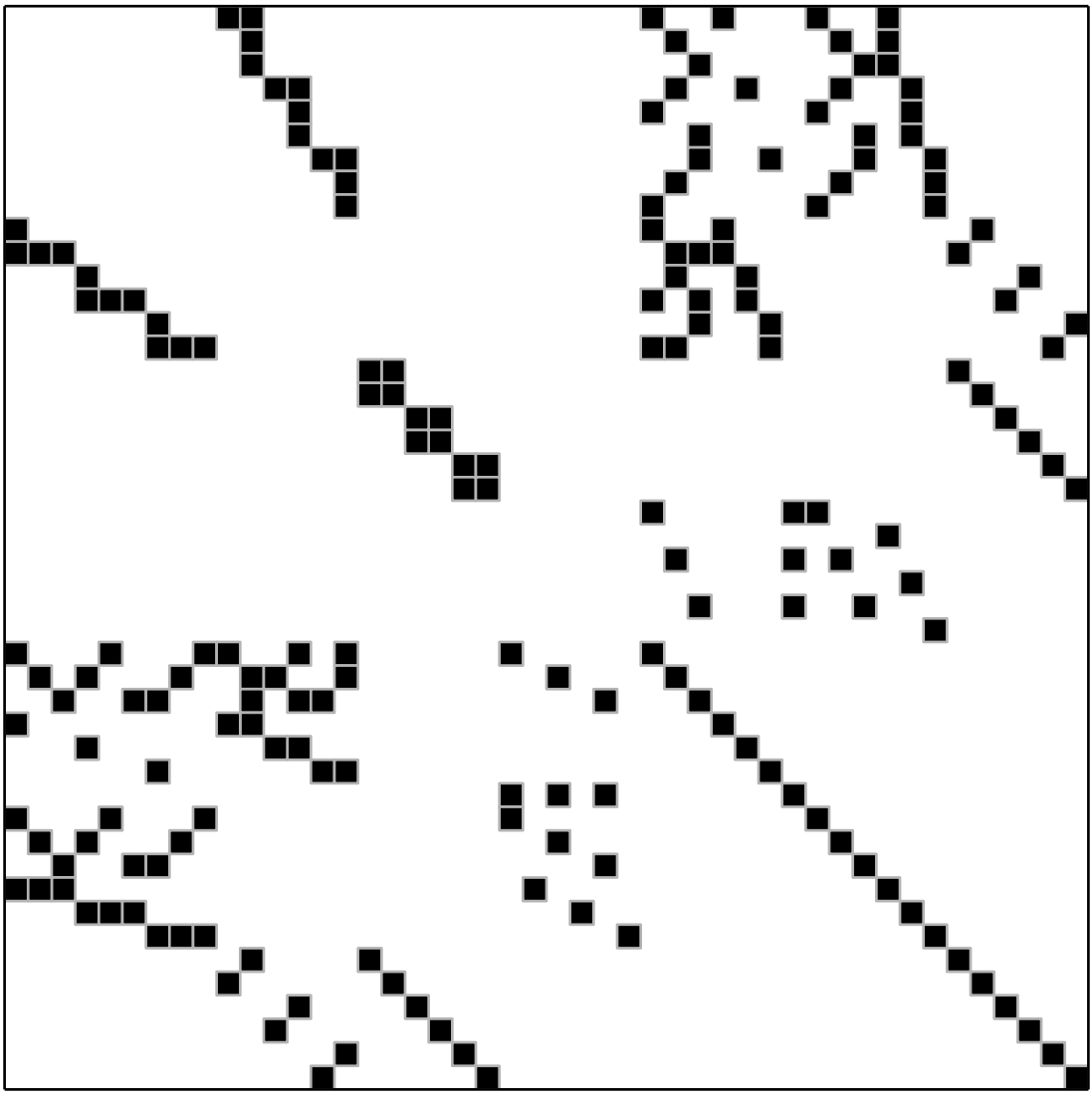
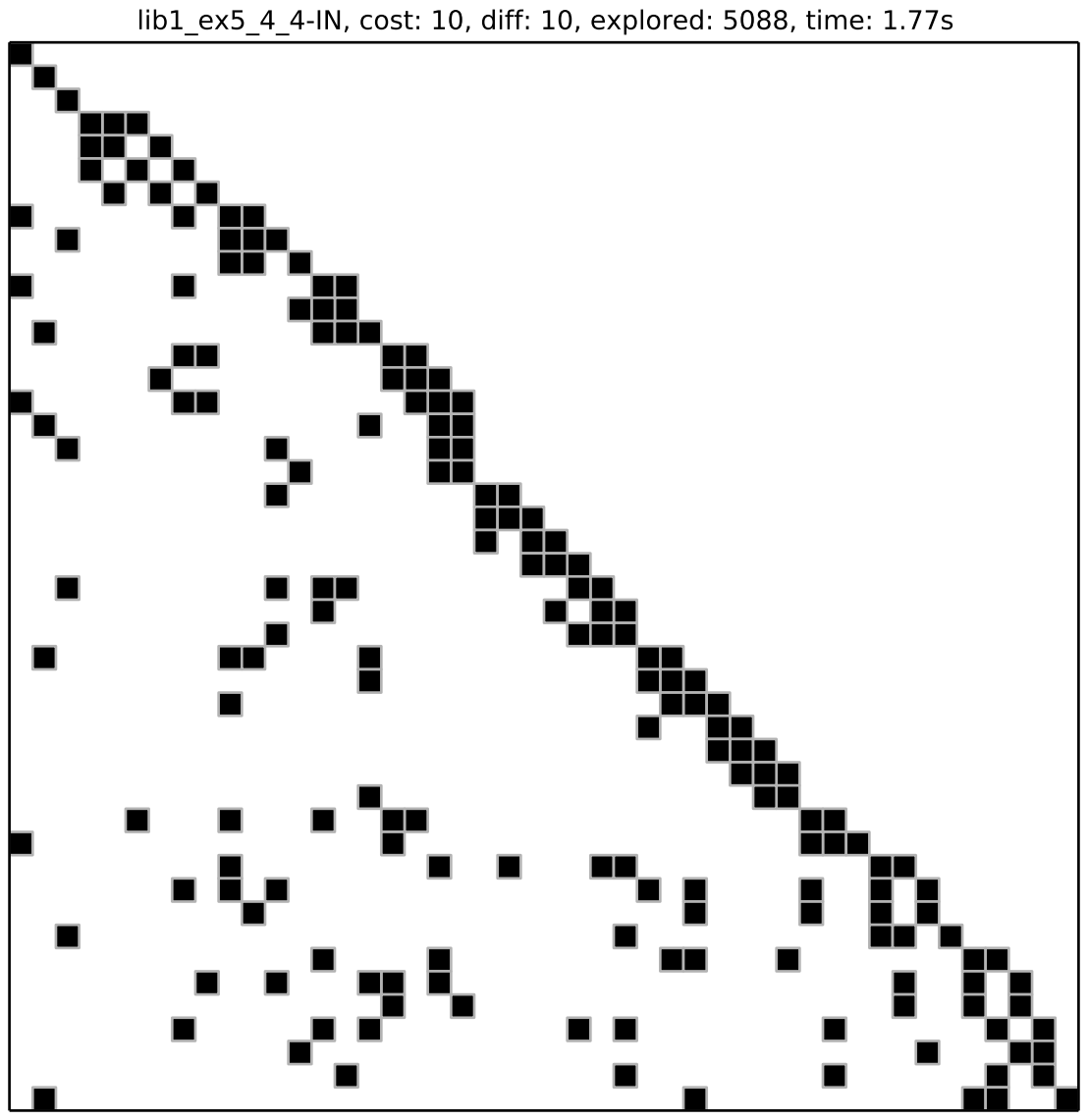
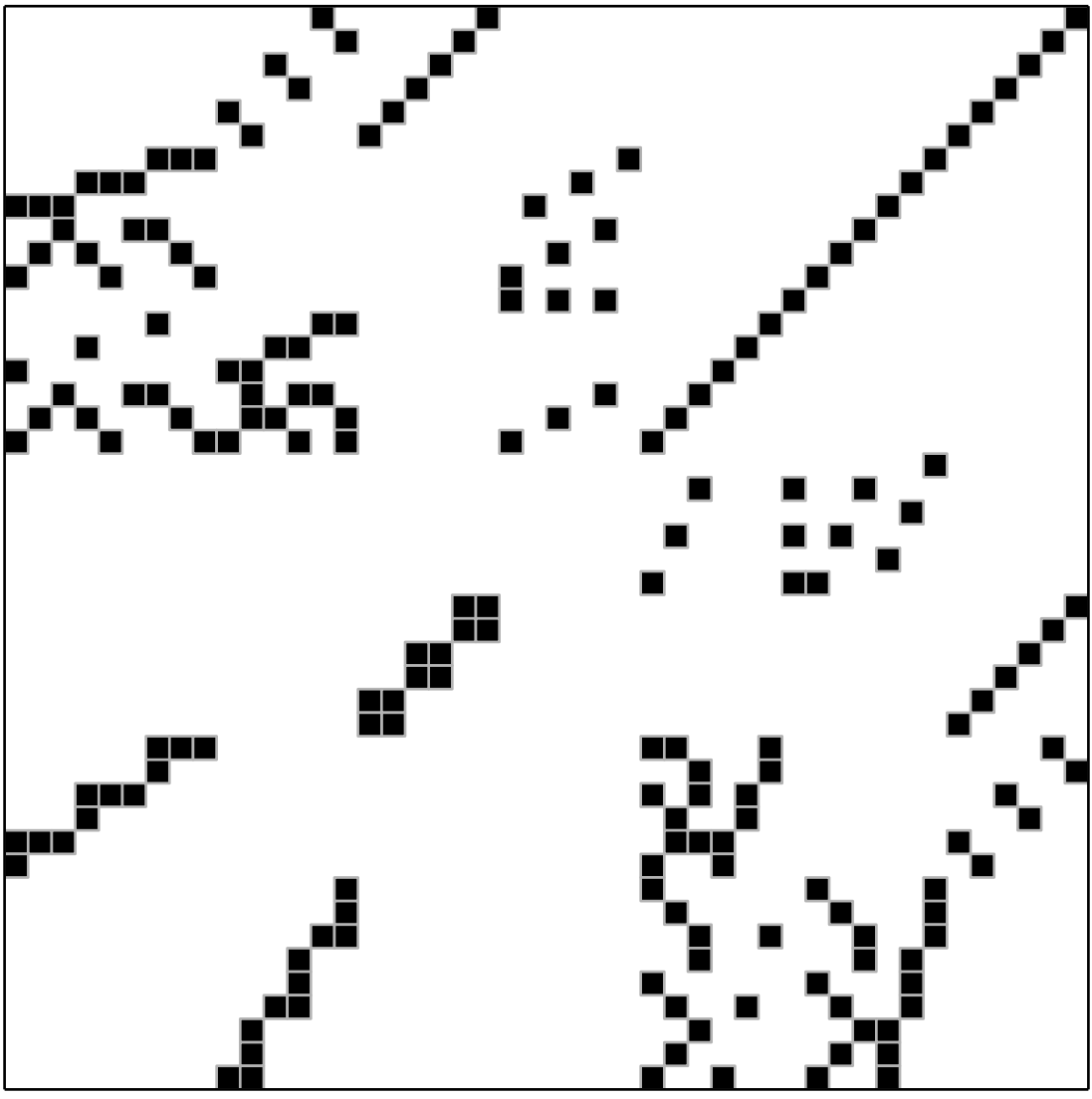
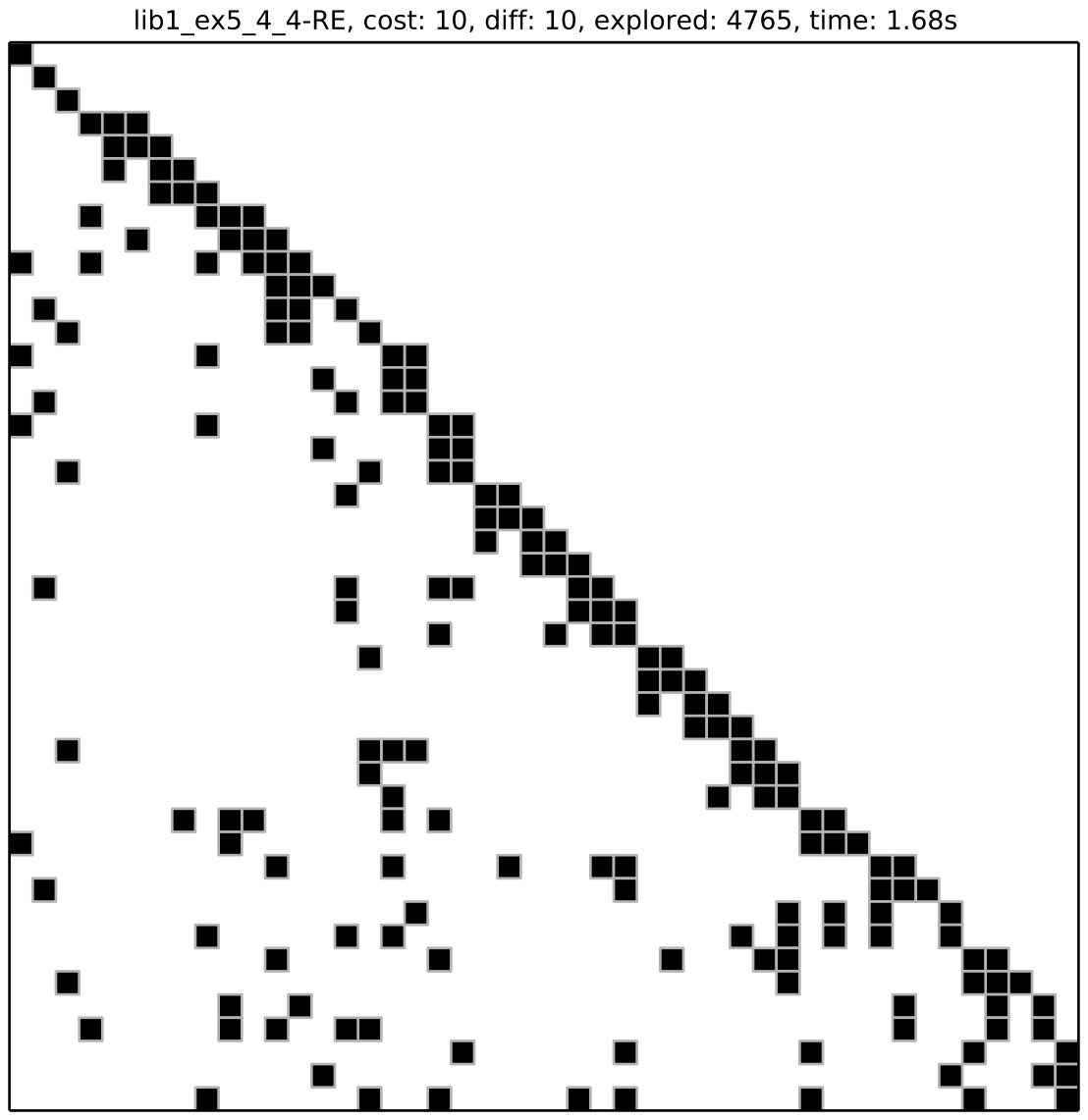
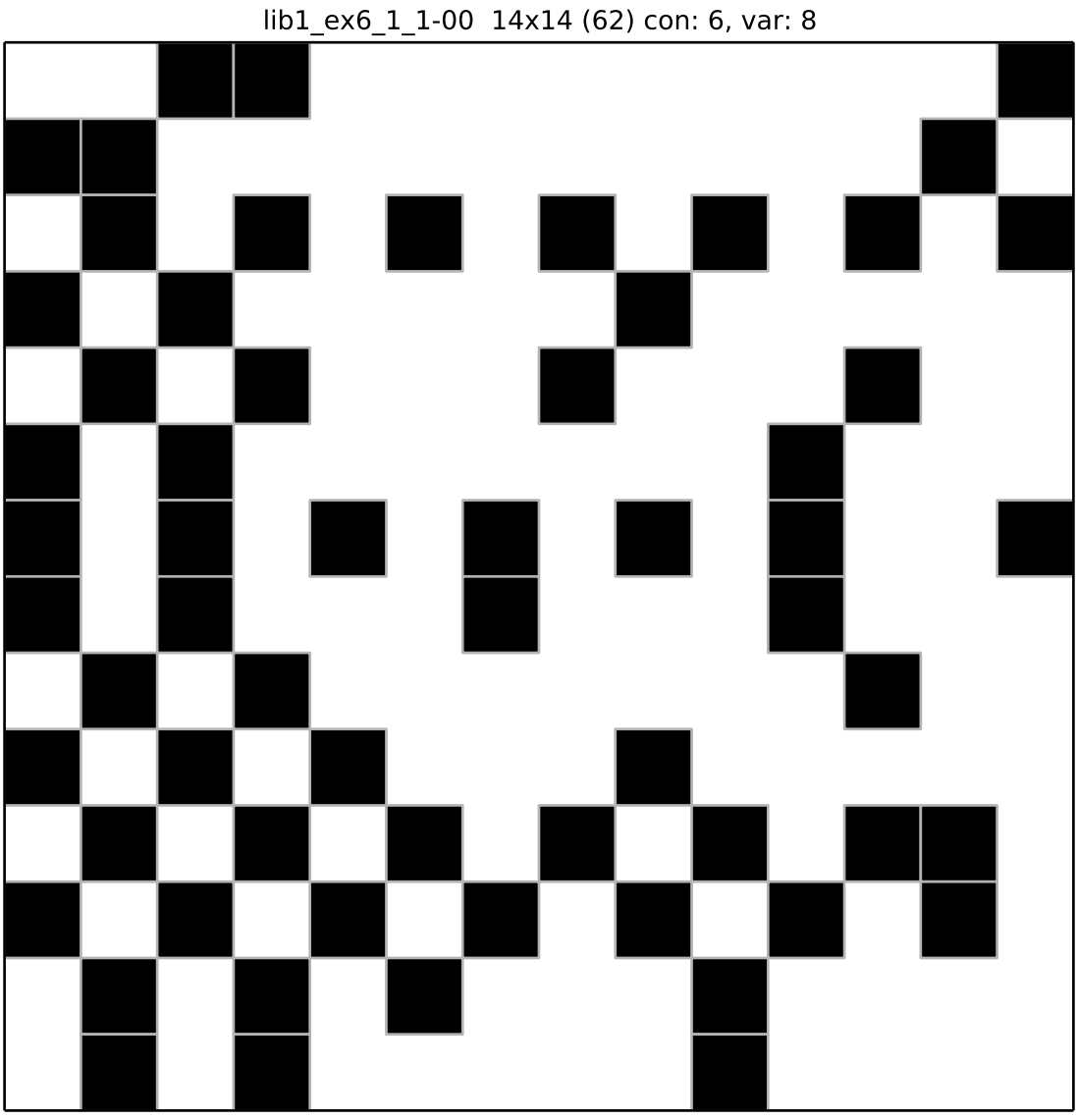
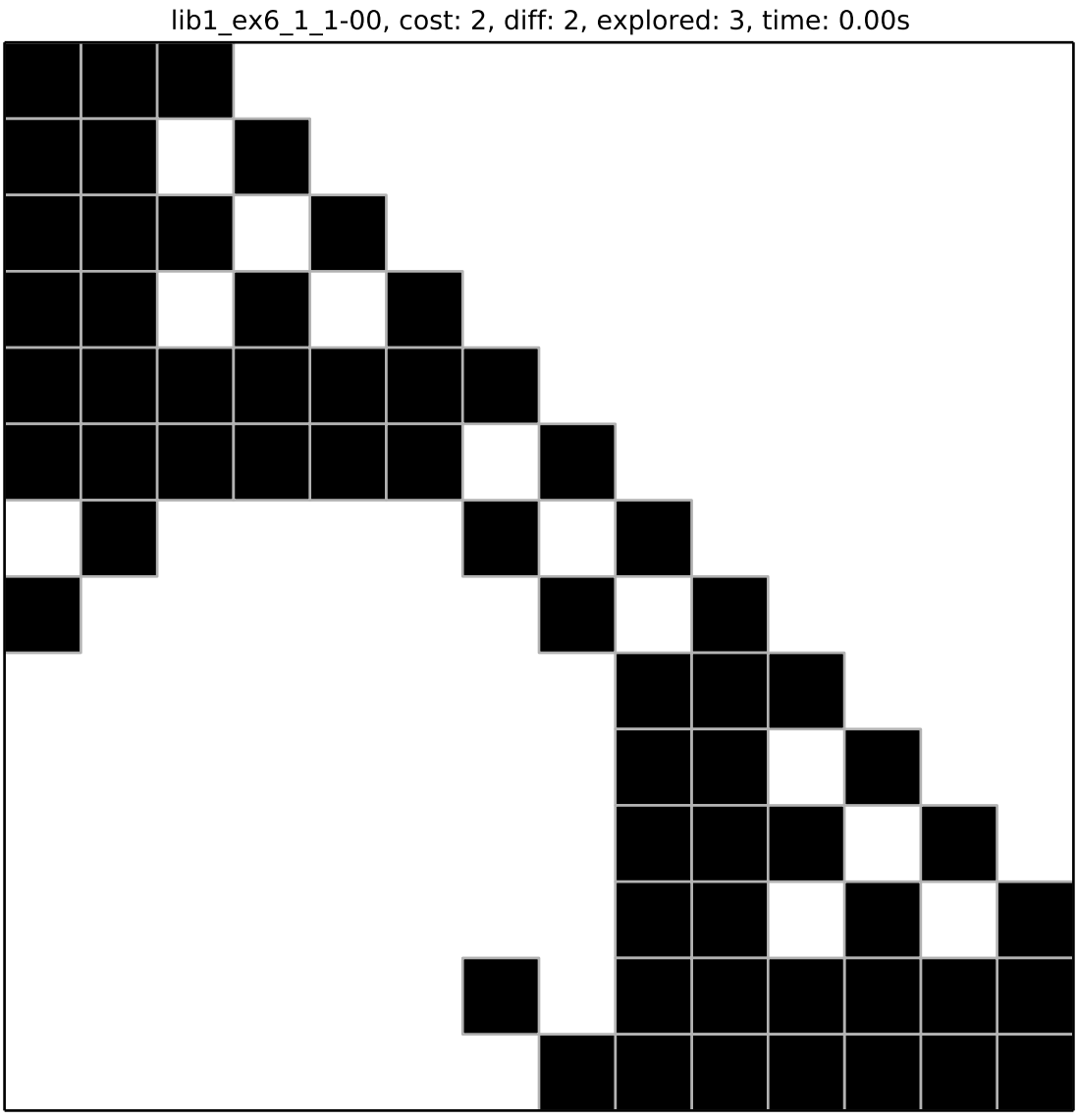

lib1_ex5_4_4-IN 46x46 (193) con: 19, var: 27


lib1_ex5_4_4-IN, cost: 10, diff: 10, explored: 5088, time: 1.77s

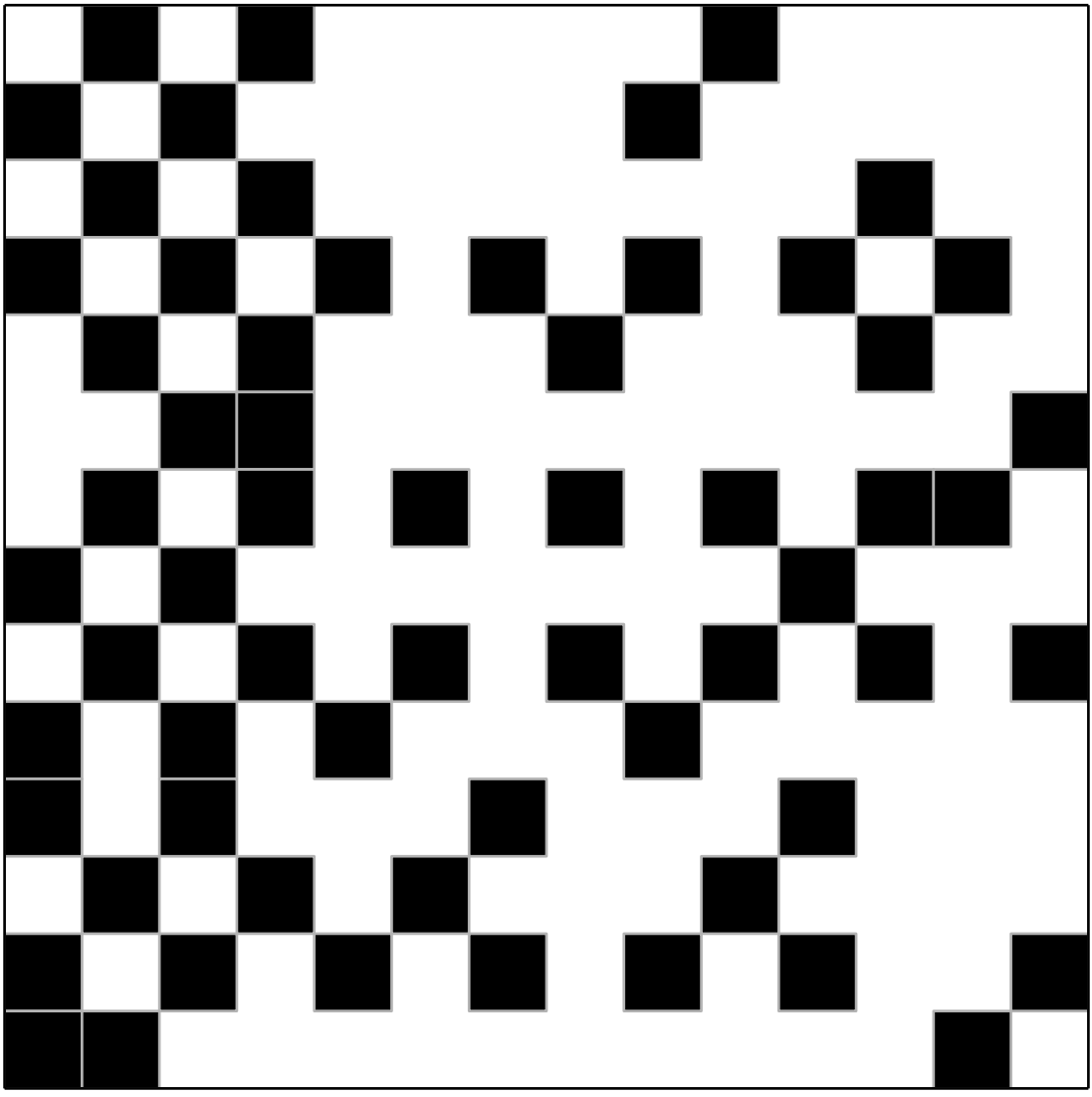

lib1_ex5_4_4-RE 46x46 (193) con: 19, var: 27

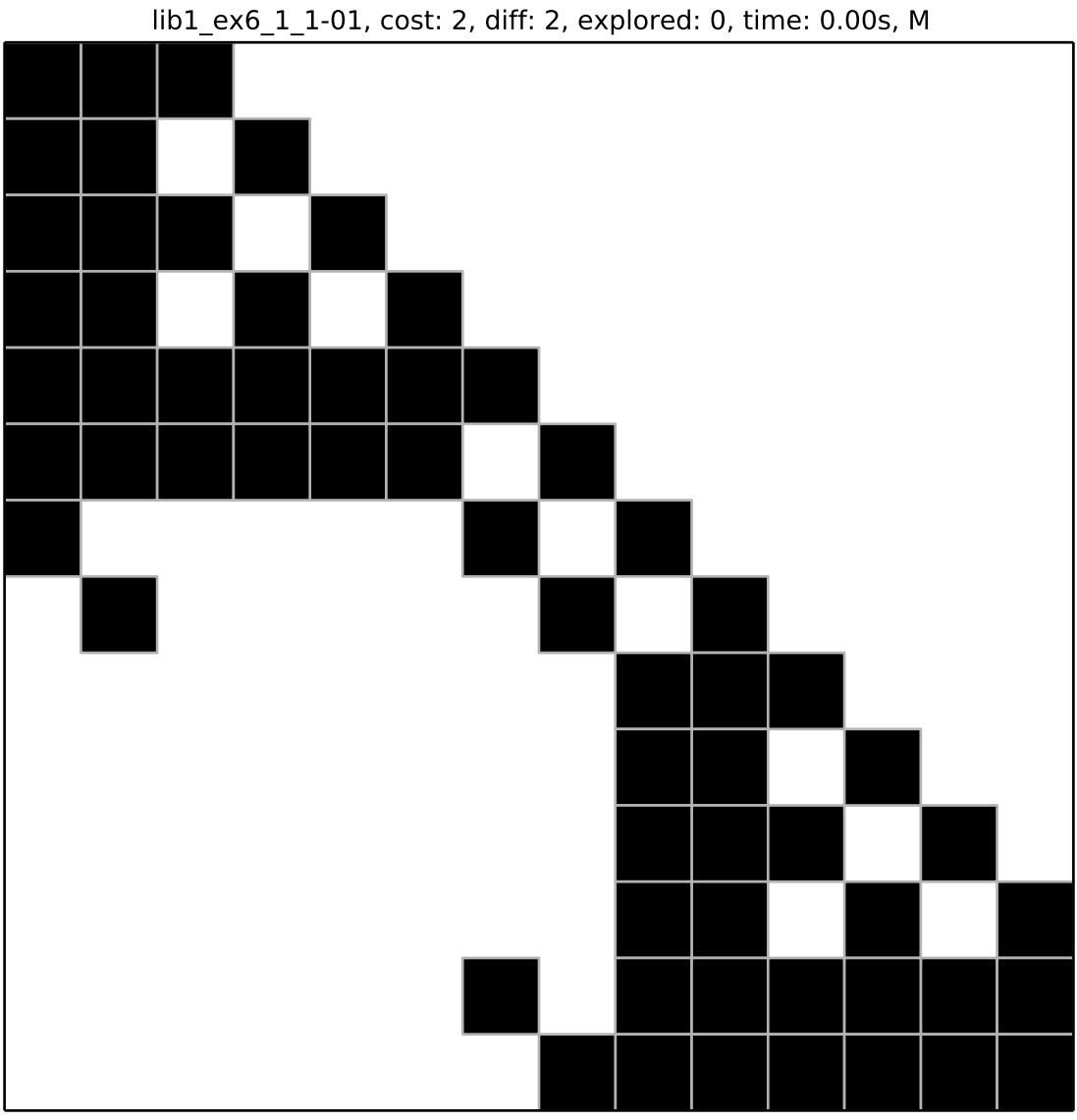

lib1_ex5_4_4-RE, cost: 10, diff: 10, explored: 4765, time: 1.68s


lib1_ex6_1_1-00 14x14 (62) con: 6, var: 8

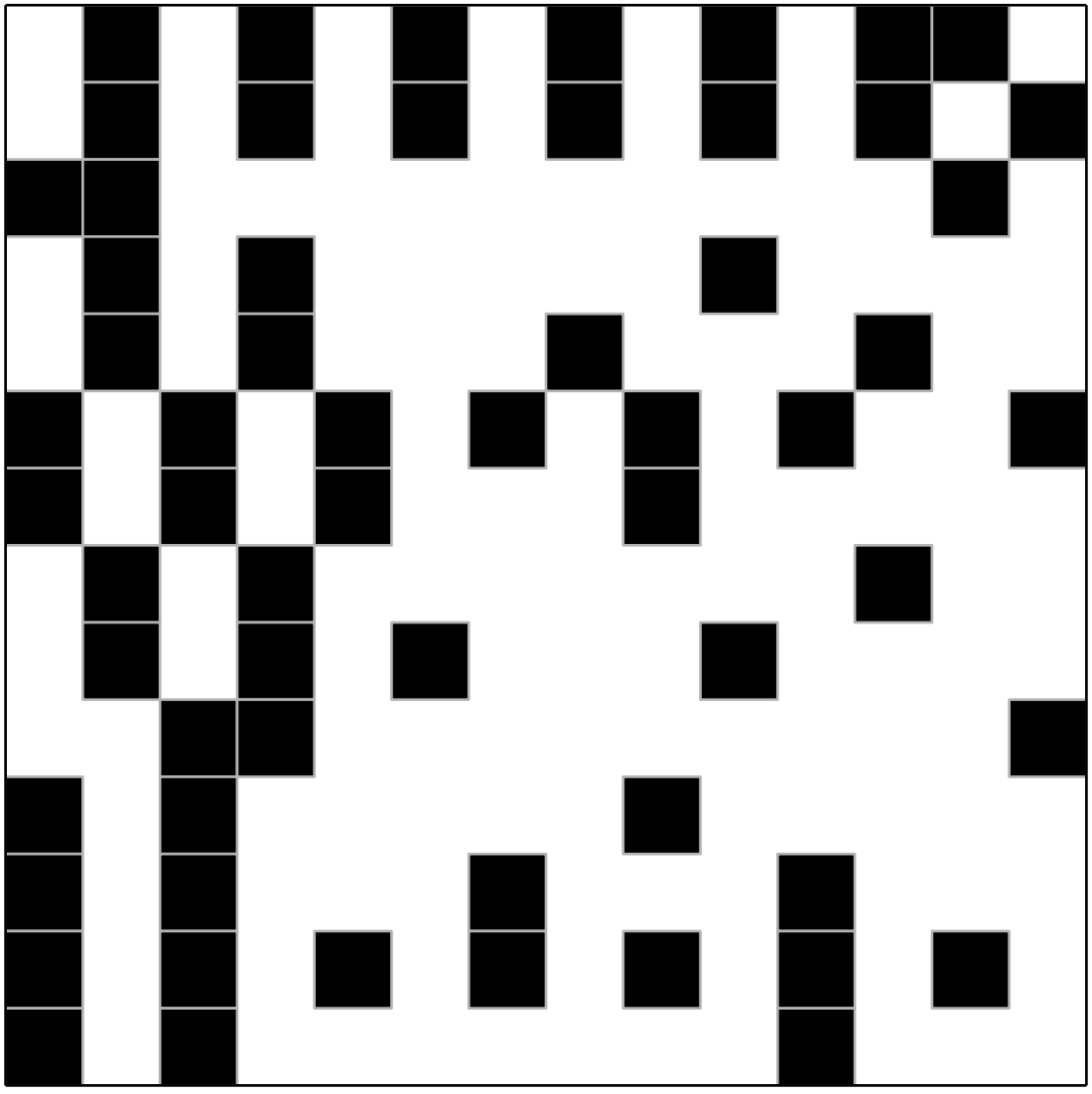

lib1_ex6_1_1-00, cost: 2, diff: 2, explored: 3, time: 0.00s

lib1_ex6_1_1-01 14x14 (62) con: 6, var: 8




lib1_ex6_1_1-01, cost: 2, diff: 2, explored: 0, time: 0.00s, M

lib1_ex6_1_1-02 14x14 (62) con: 6, var: 8



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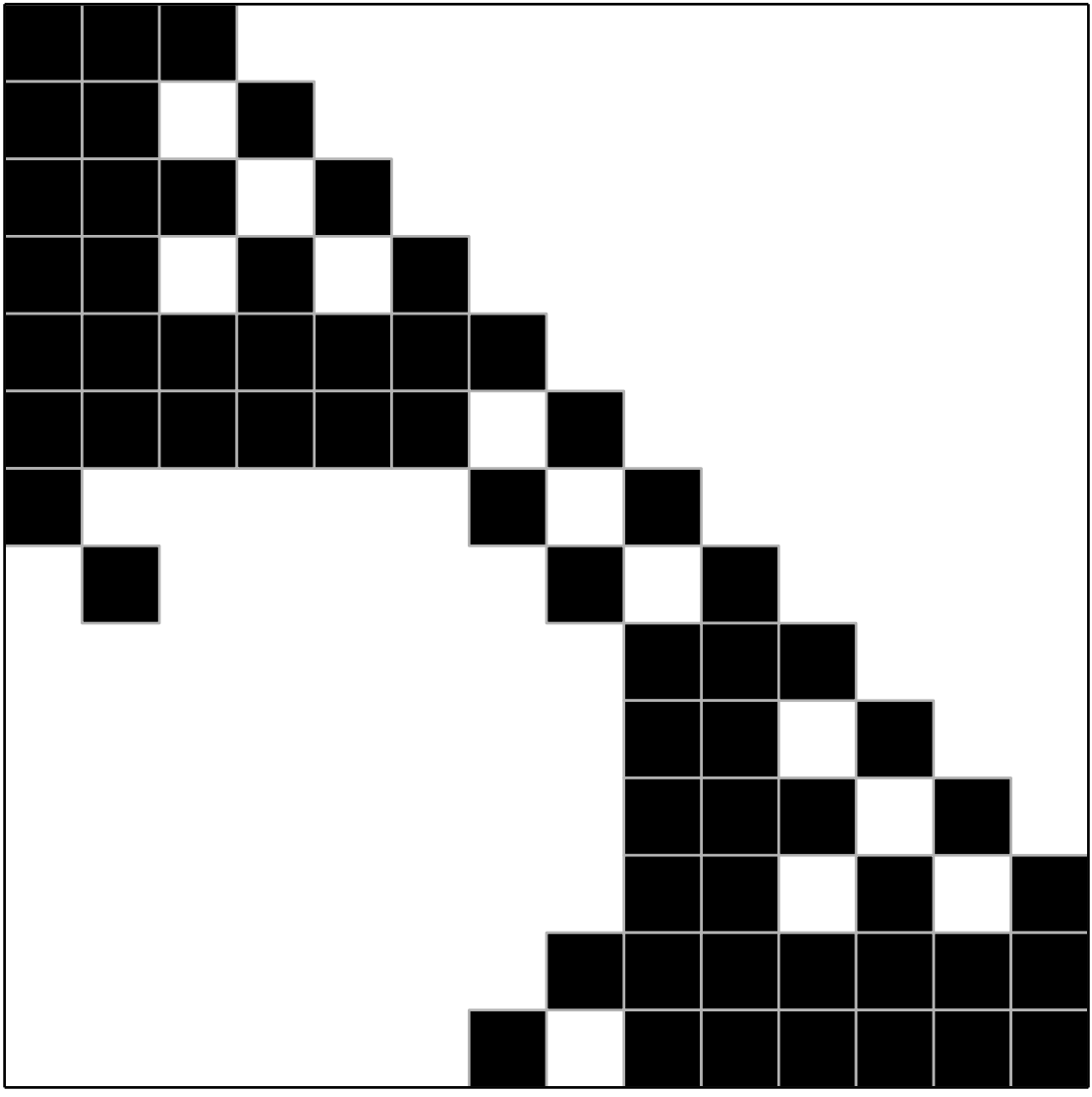
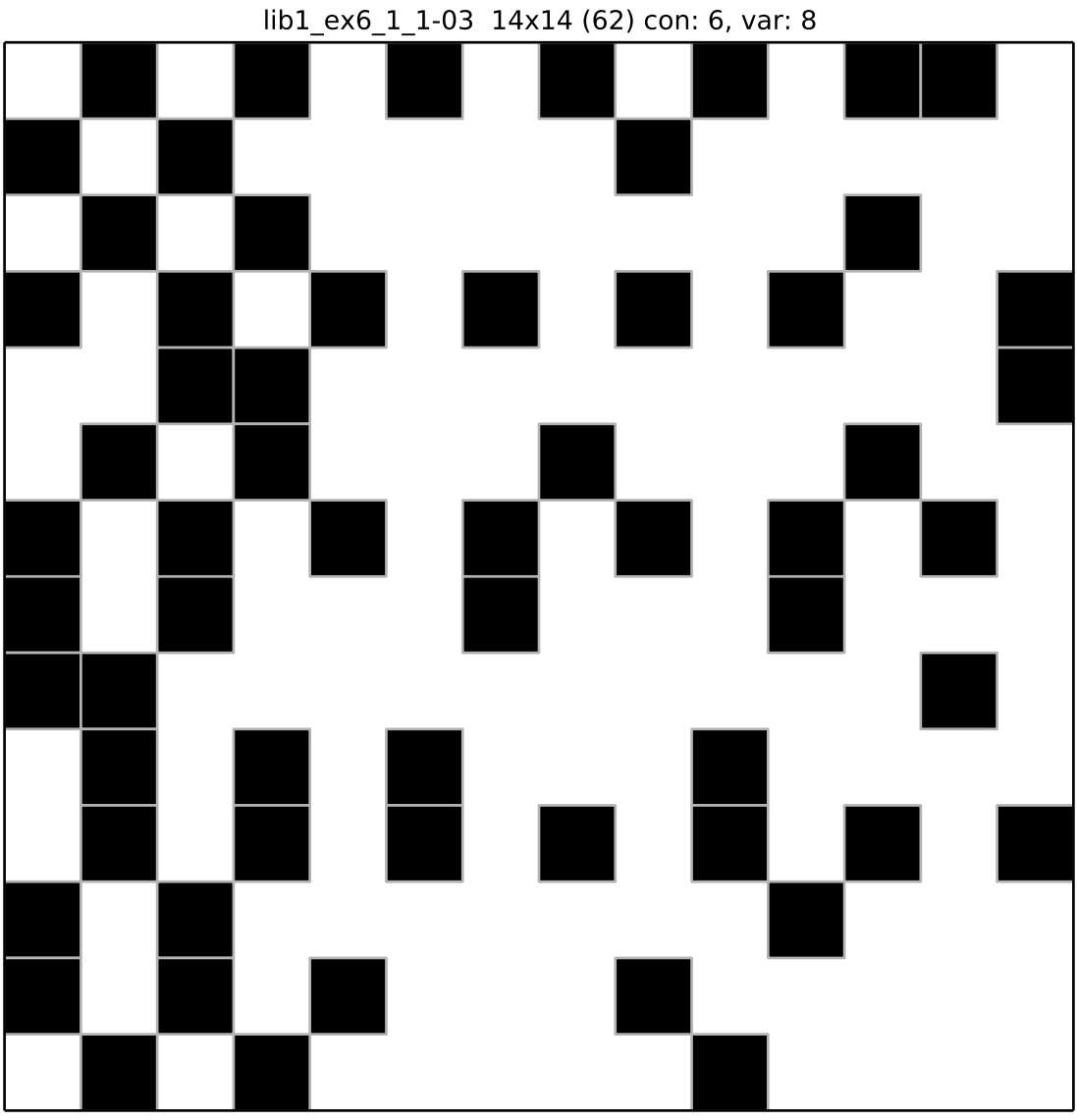
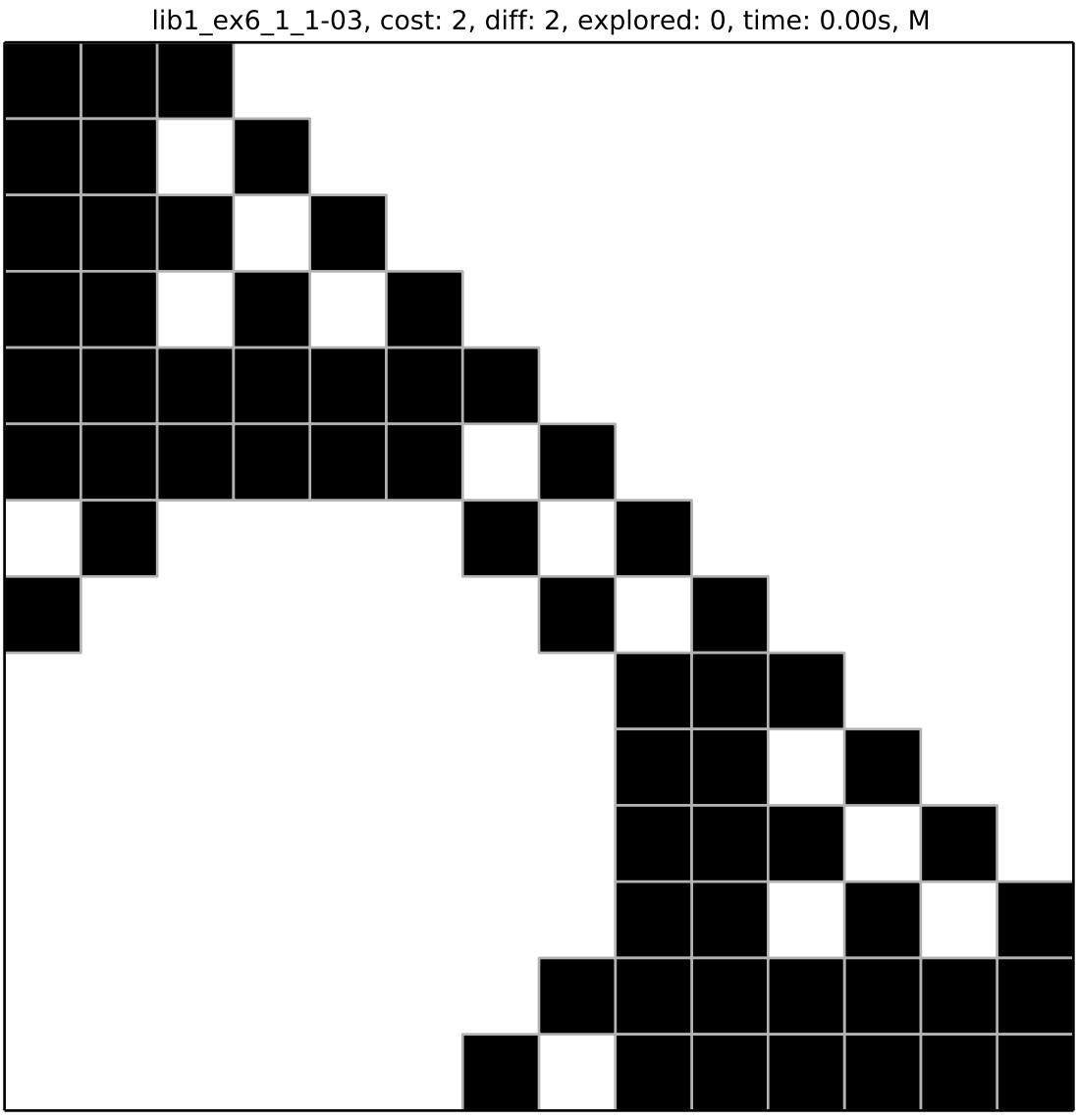
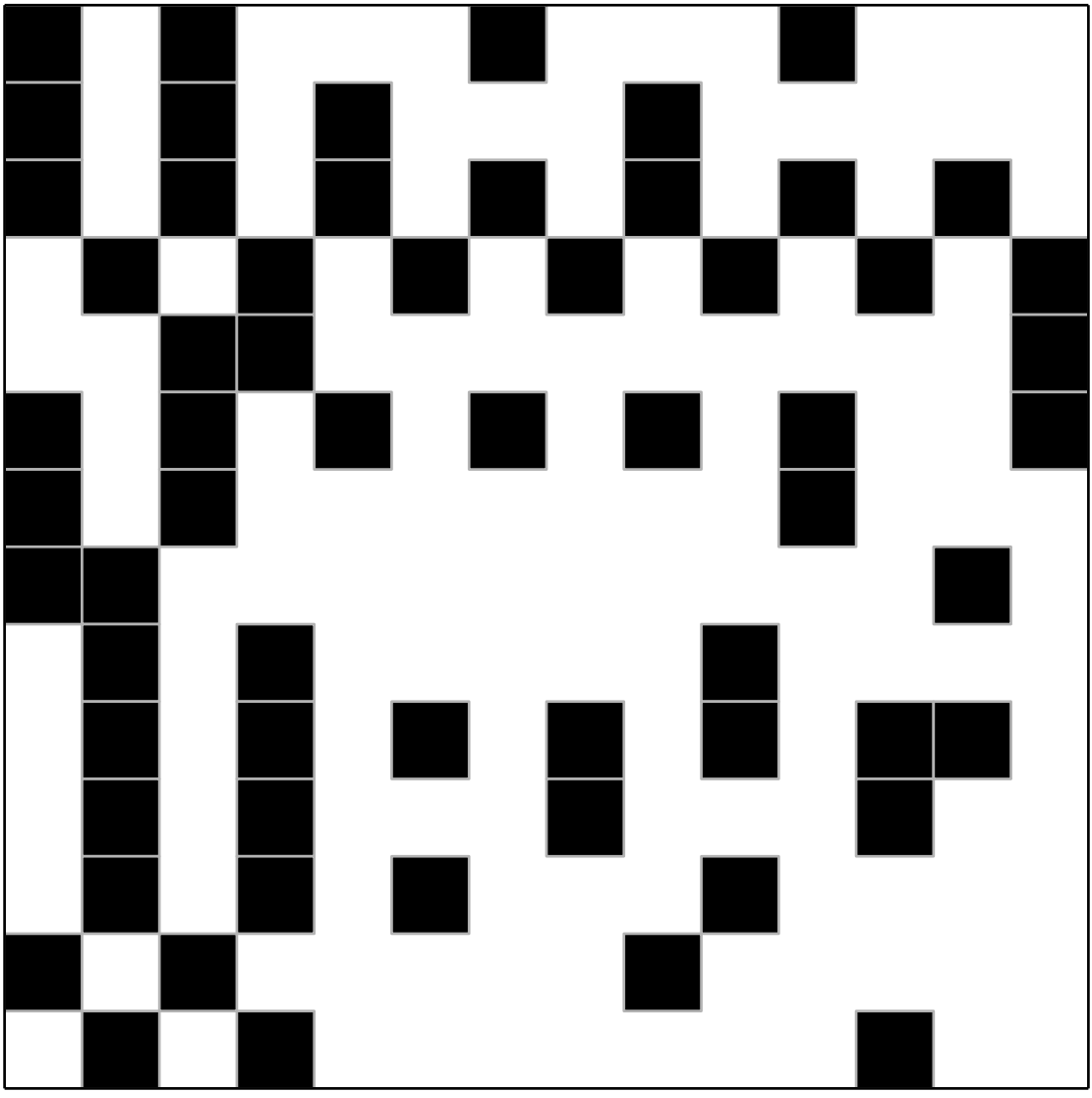



lib1_ex6_1_1-03 14x14 (62) con: 6, var: 8


lib1_ex6_1_1-03, cost: 2, diff: 2, explored: 0, time: 0.00s, M

lib1_ex6_1_1-04 14x14 (62) con: 6, var: 8



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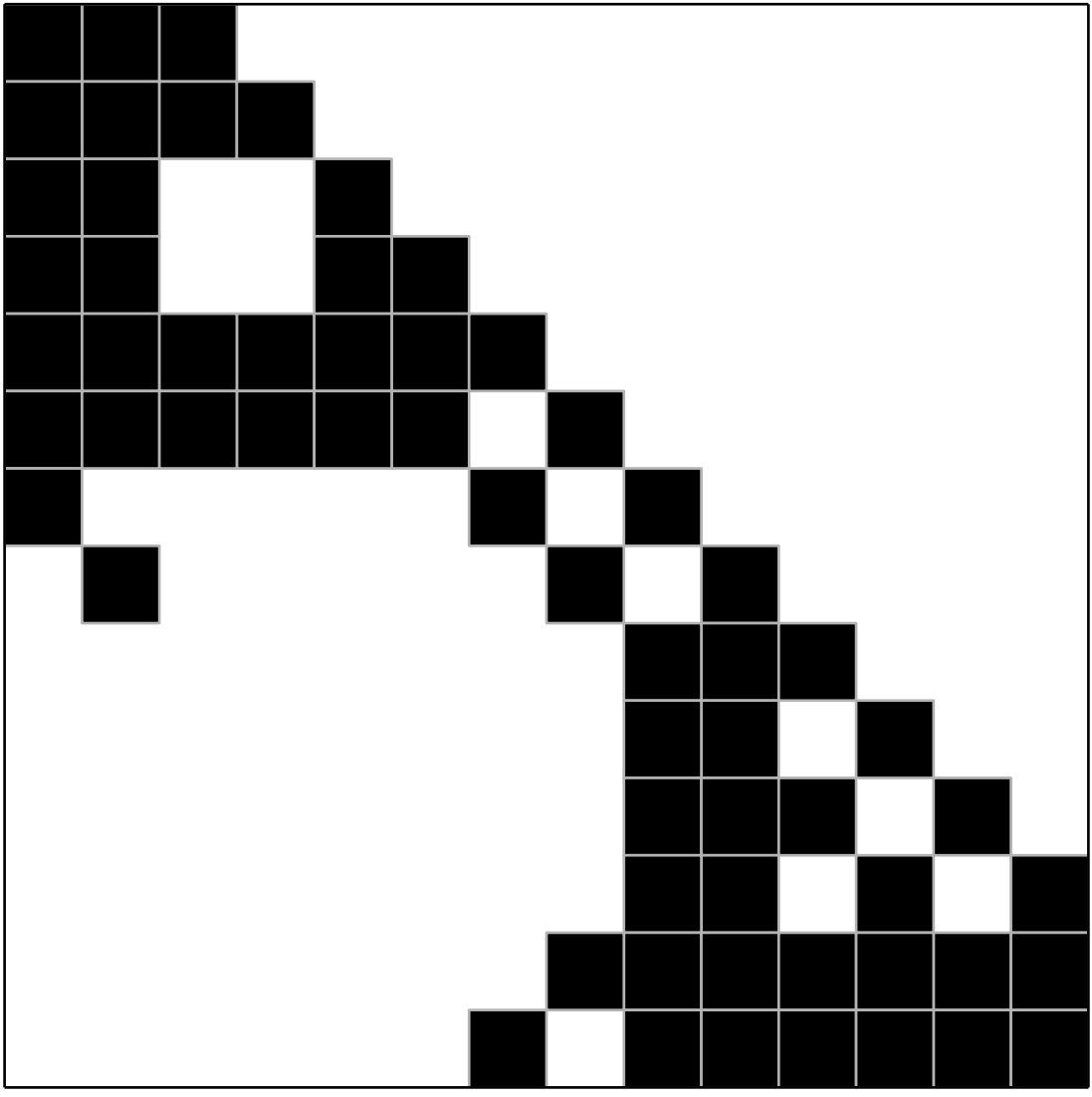
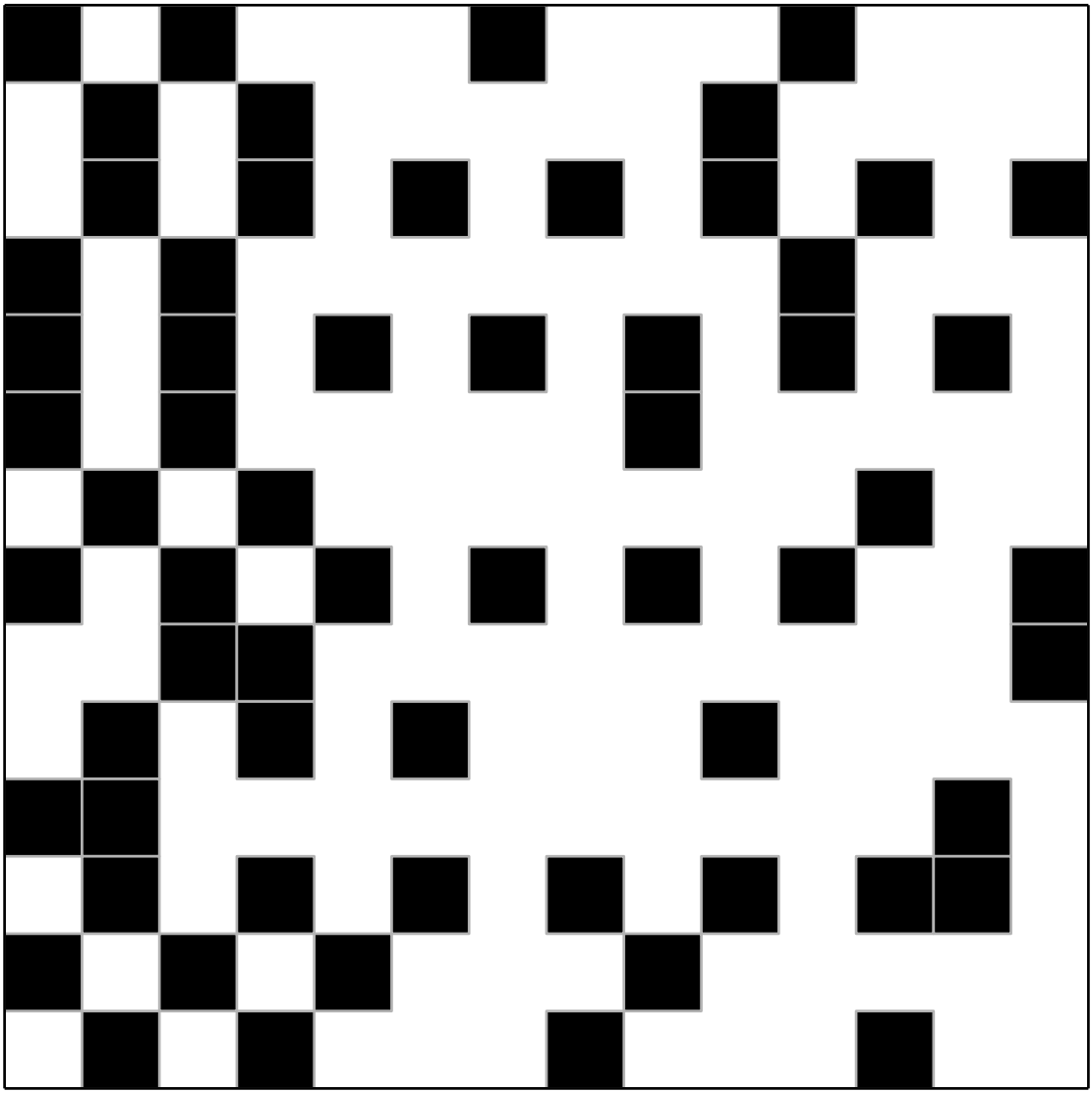
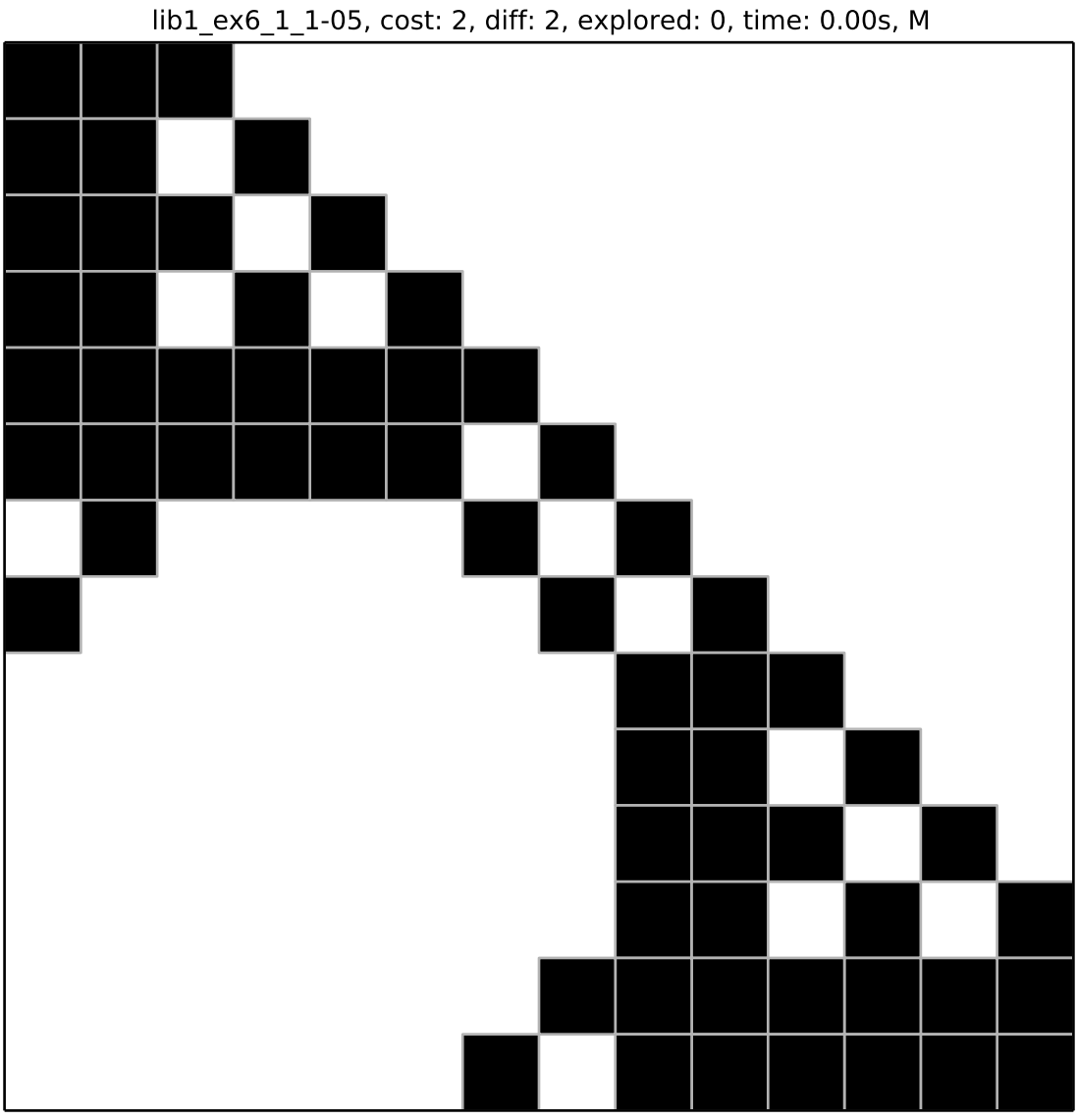
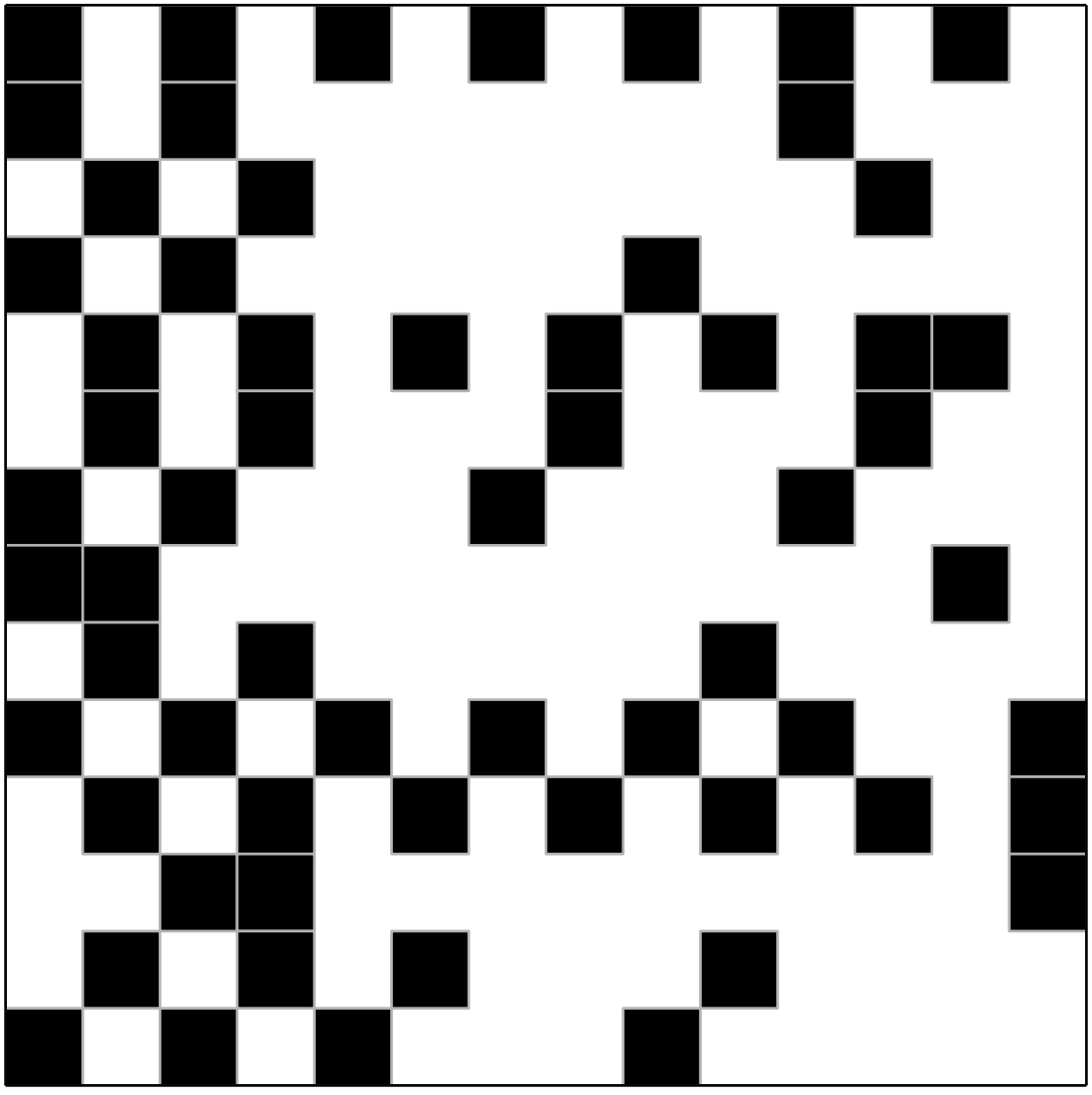


lib1_ex6_1_1-05 14x14 (62) con: 6, var: 8

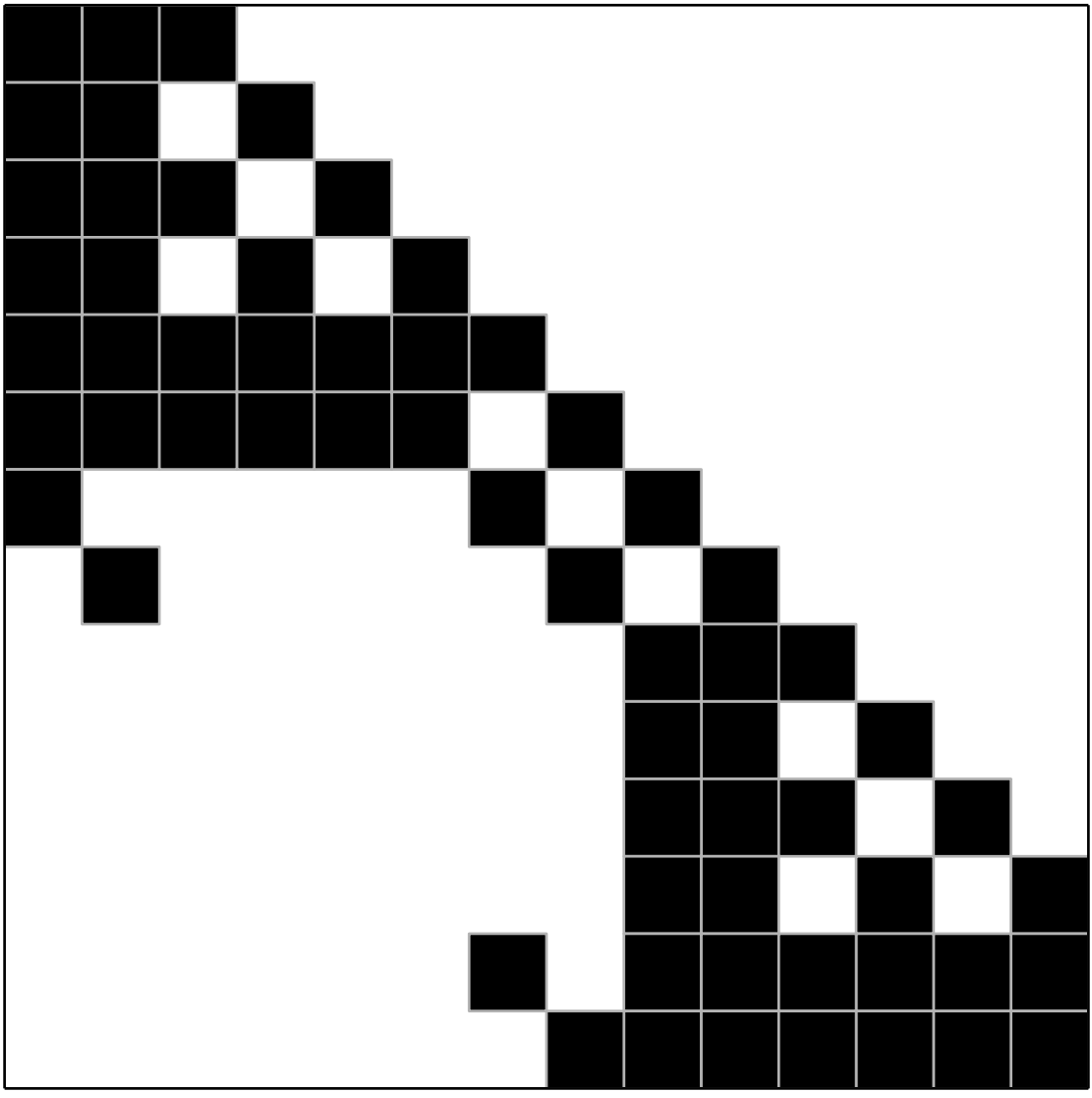



lib1_ex6_1_1-05, cost: 2, diff: 2, explored: 0, time: 0.00s, M

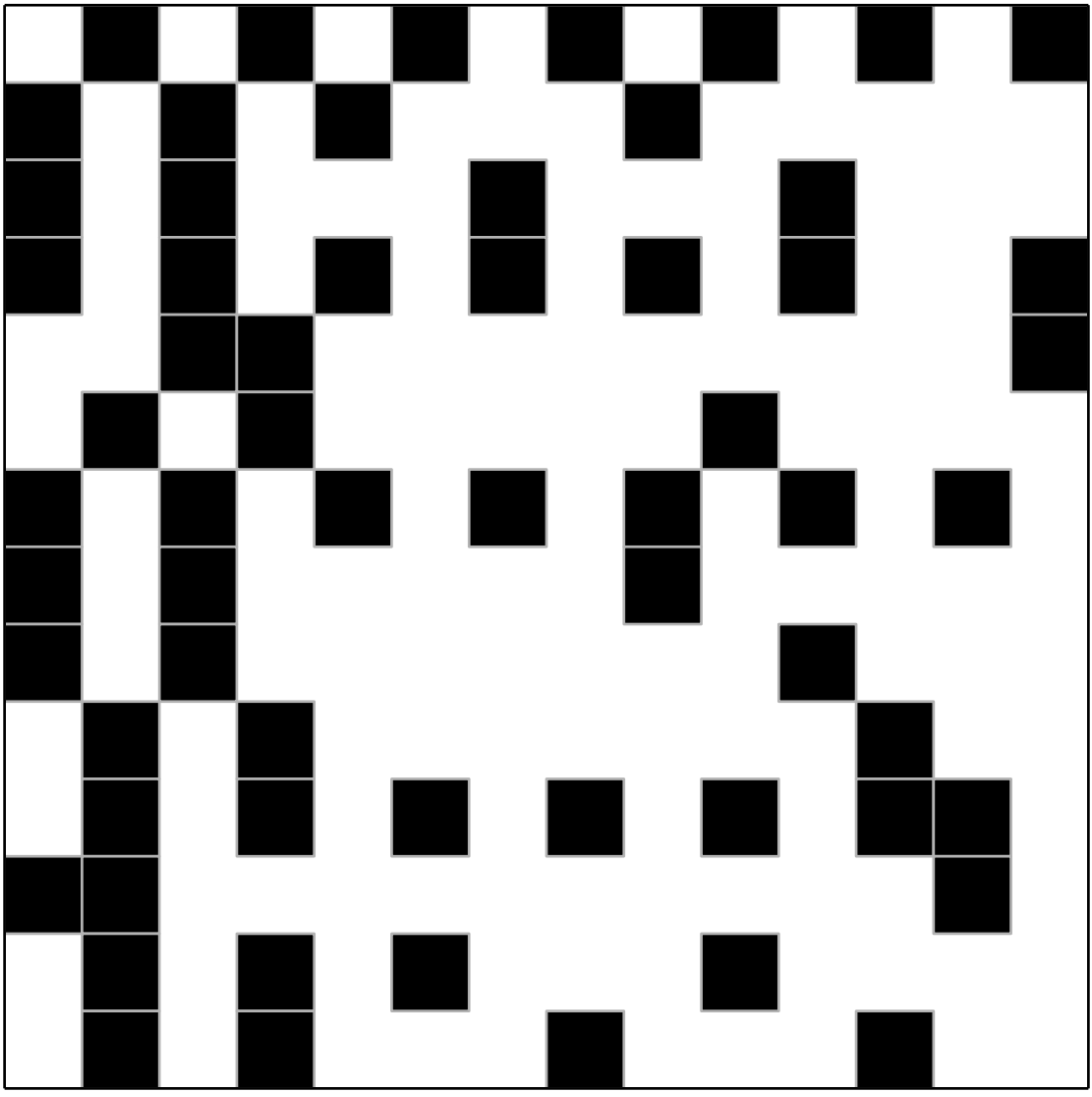
lib1_ex6_1_1-06 14x14 (62) con: 6, var: 8



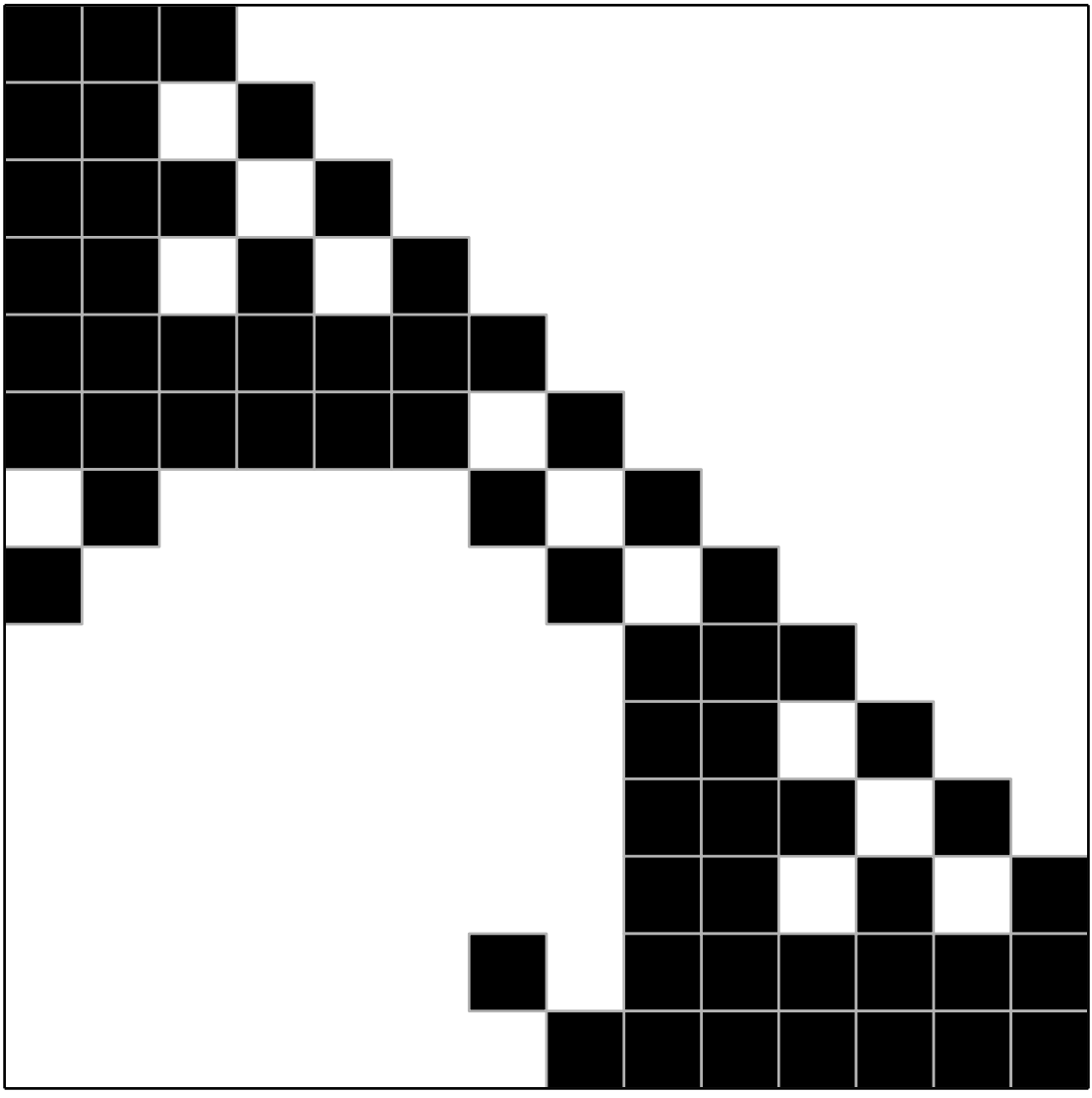
lib1_ex6_1_1-06, cost: 2, diff: 2, explored: 0, time: 0.00s, M



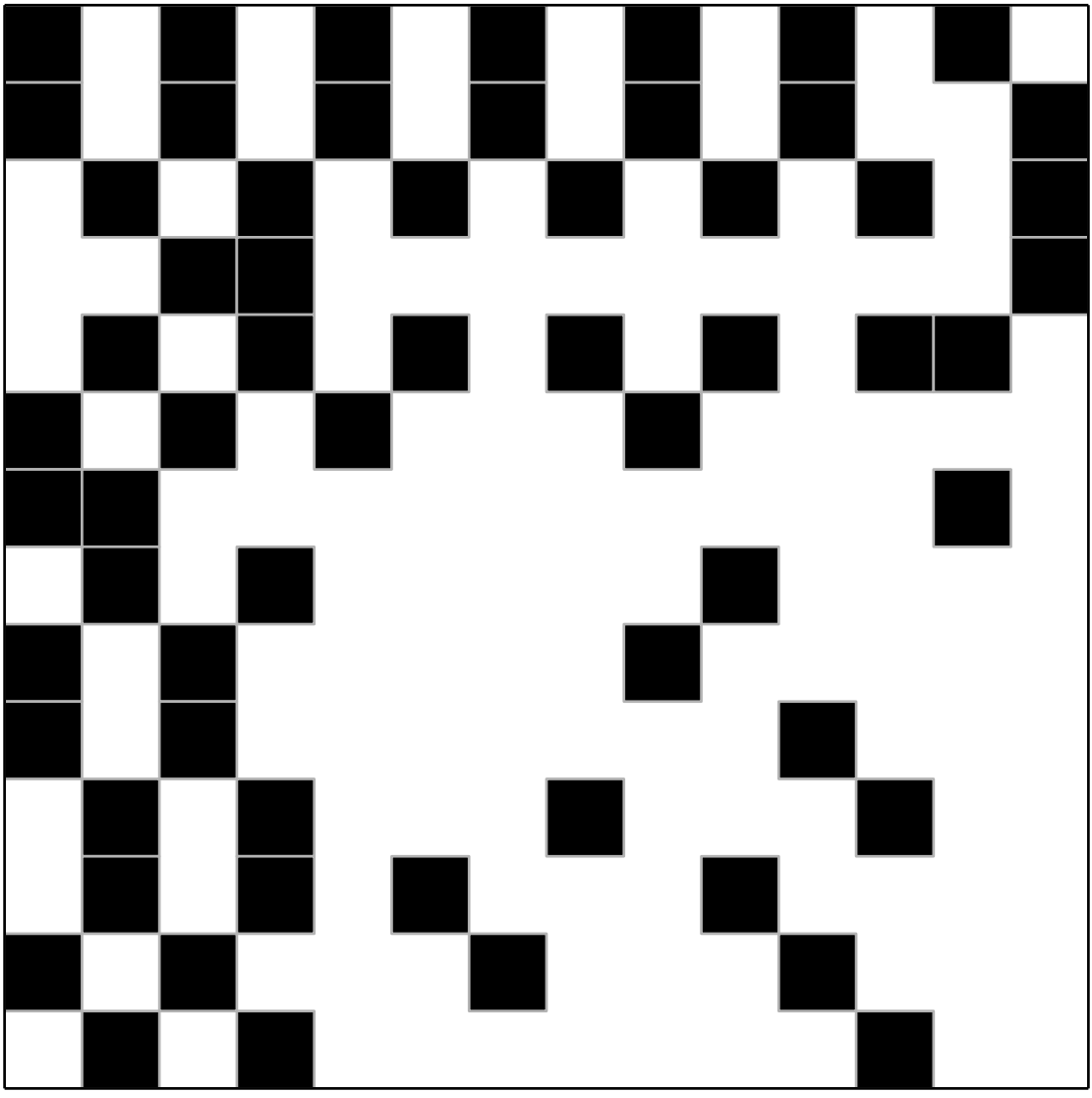
lib1_ex6_1_1-07 14x14 (62) con: 6, var: 8



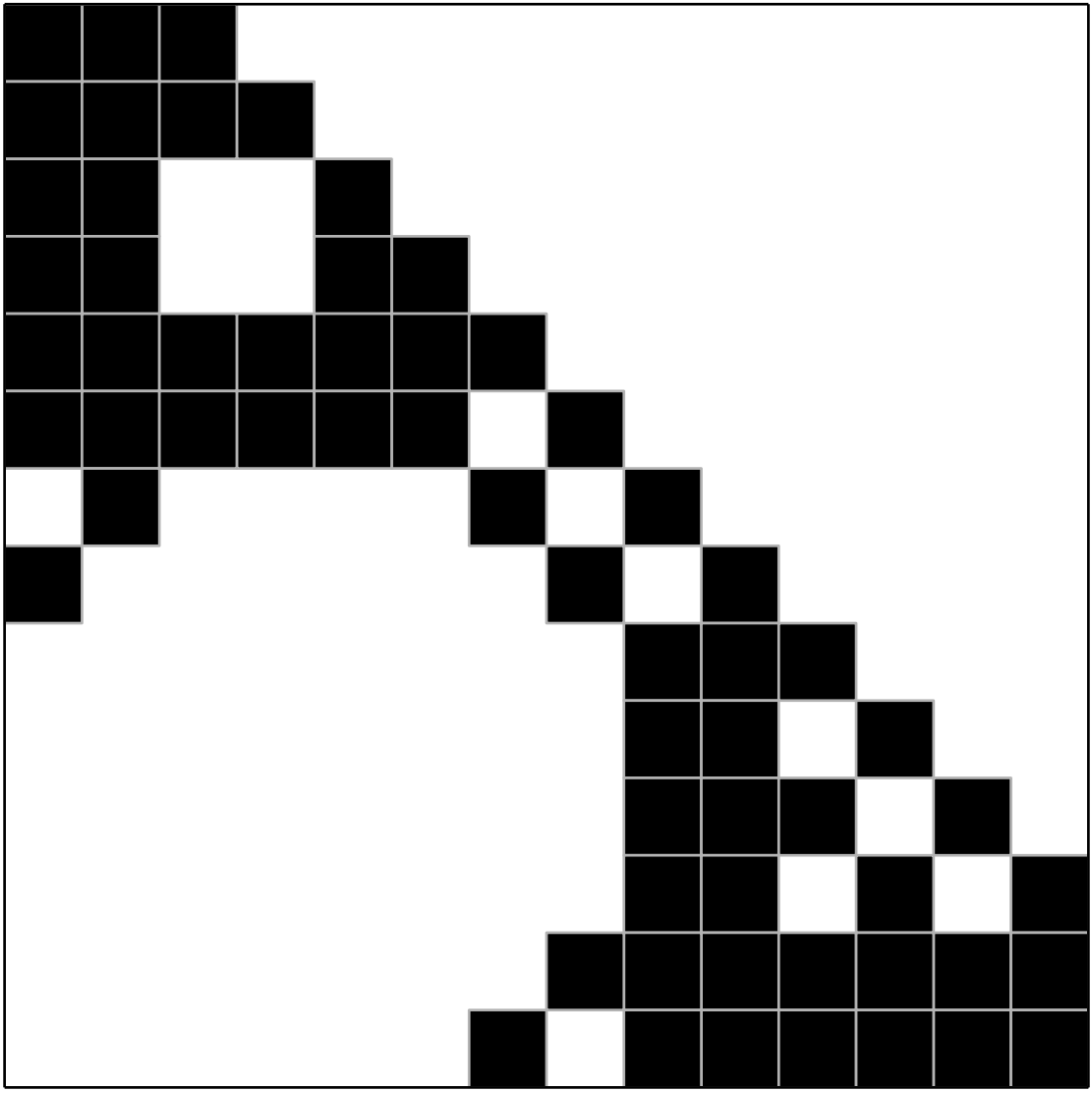
lib1_ex6_1_1-07, cost: 2, diff: 2, explored: 2, time: 0.00s



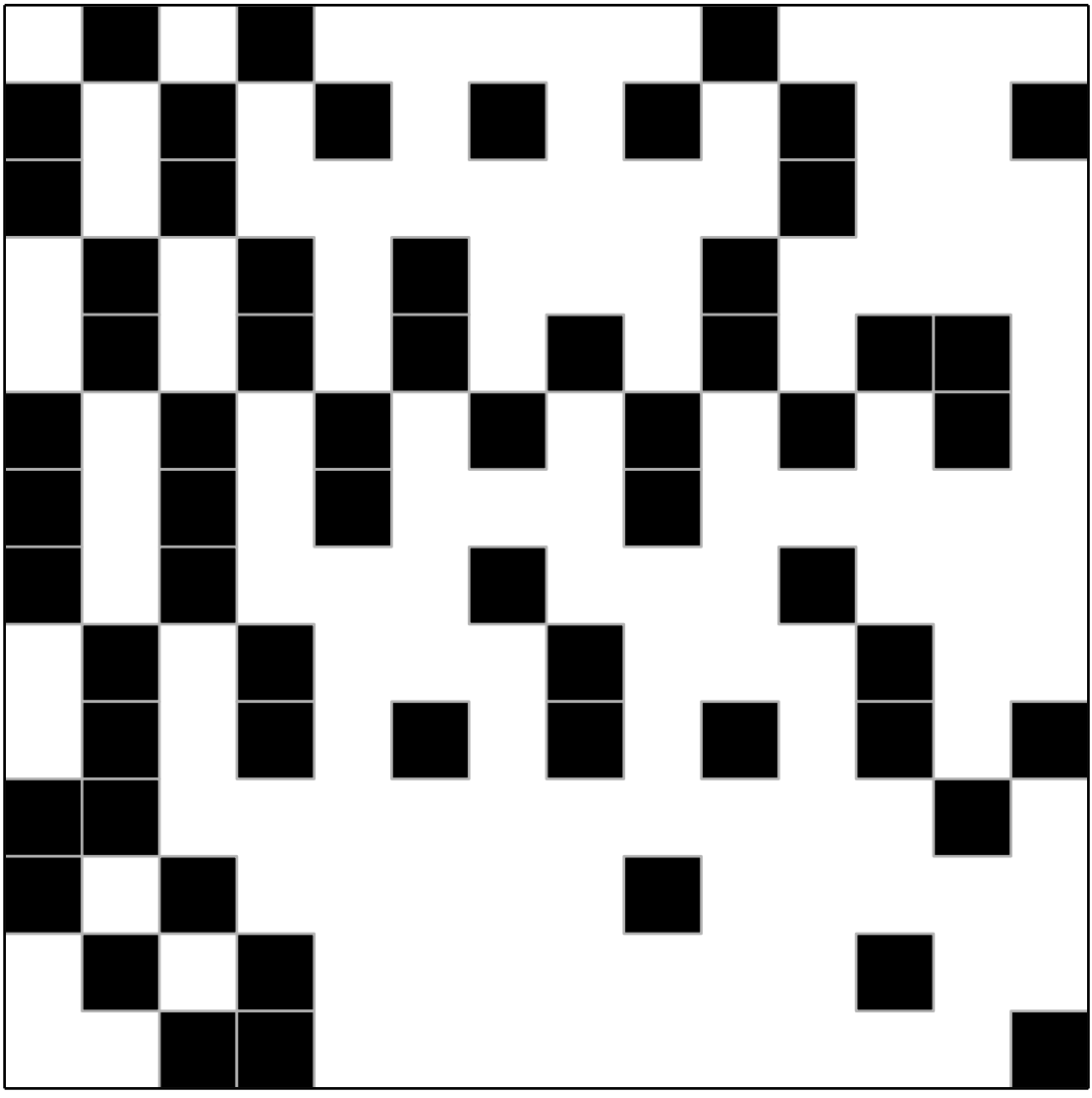
lib1_ex6_1_1-08 14x14 (62) con: 6, var: 8

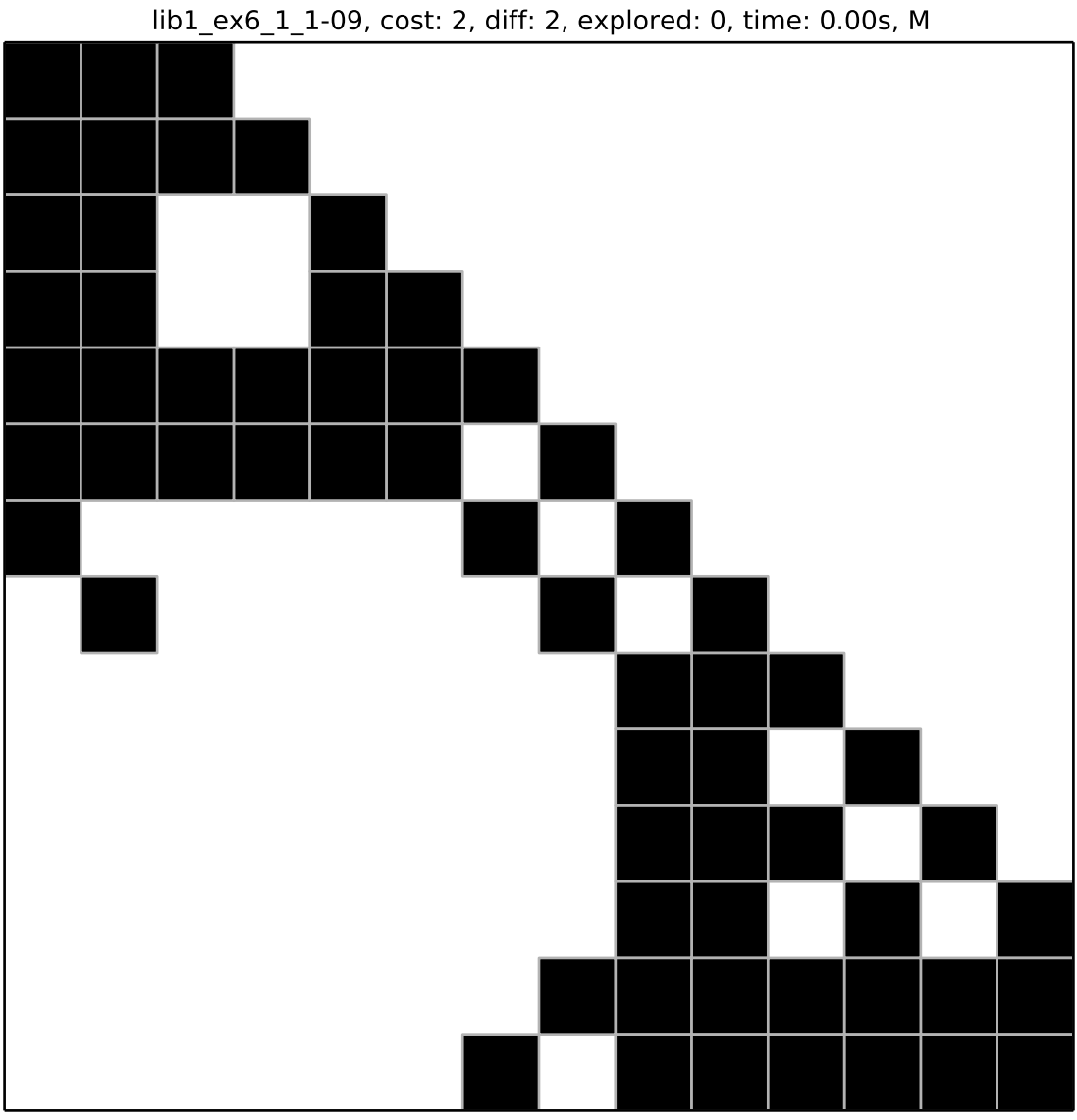


lib1_ex6_1_1-08, cost: 2, diff: 2, explored: 3, time: 0.00s

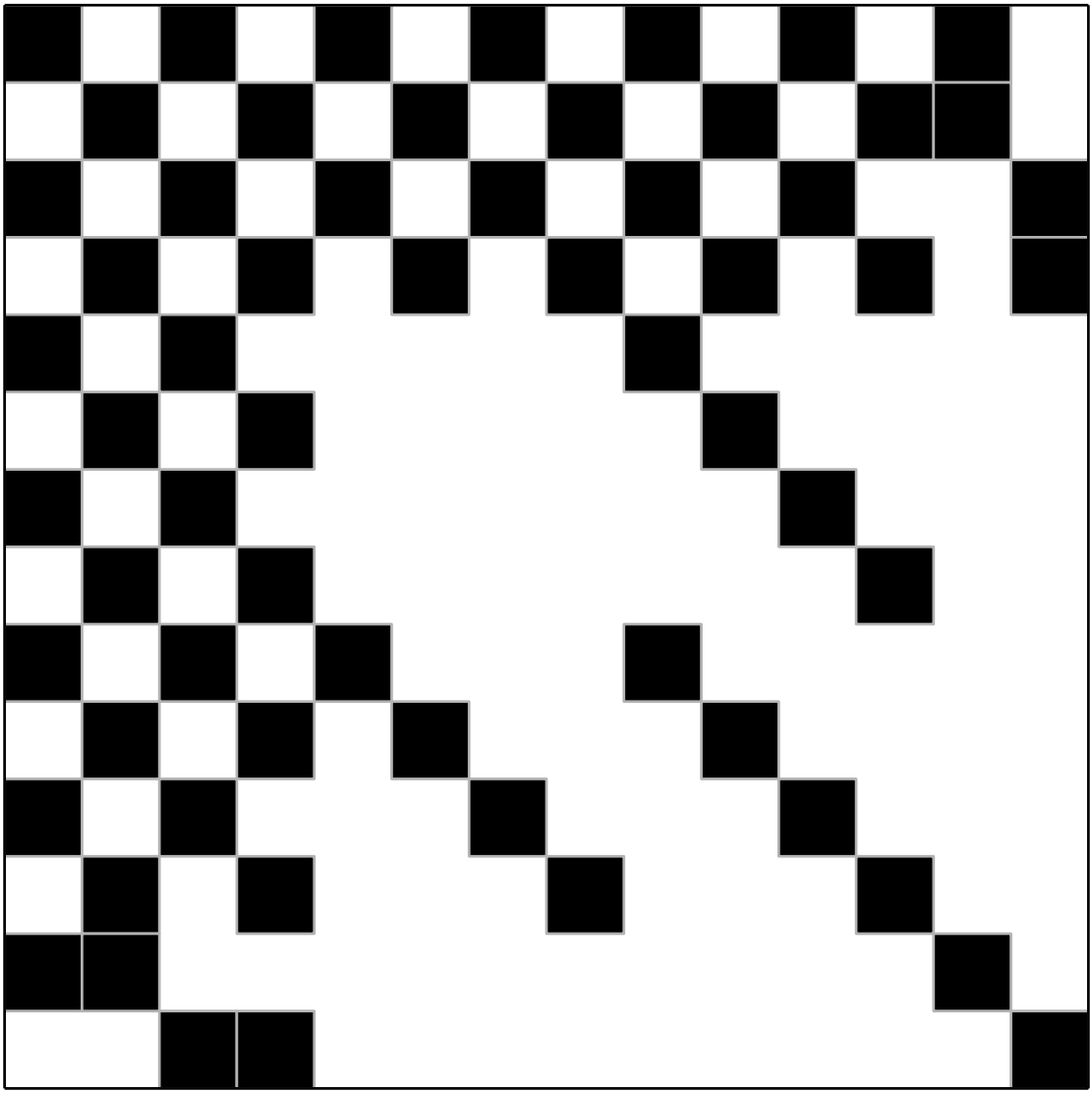


lib1_ex6_1_1-09 14x14 (62) con: 6, var: 8

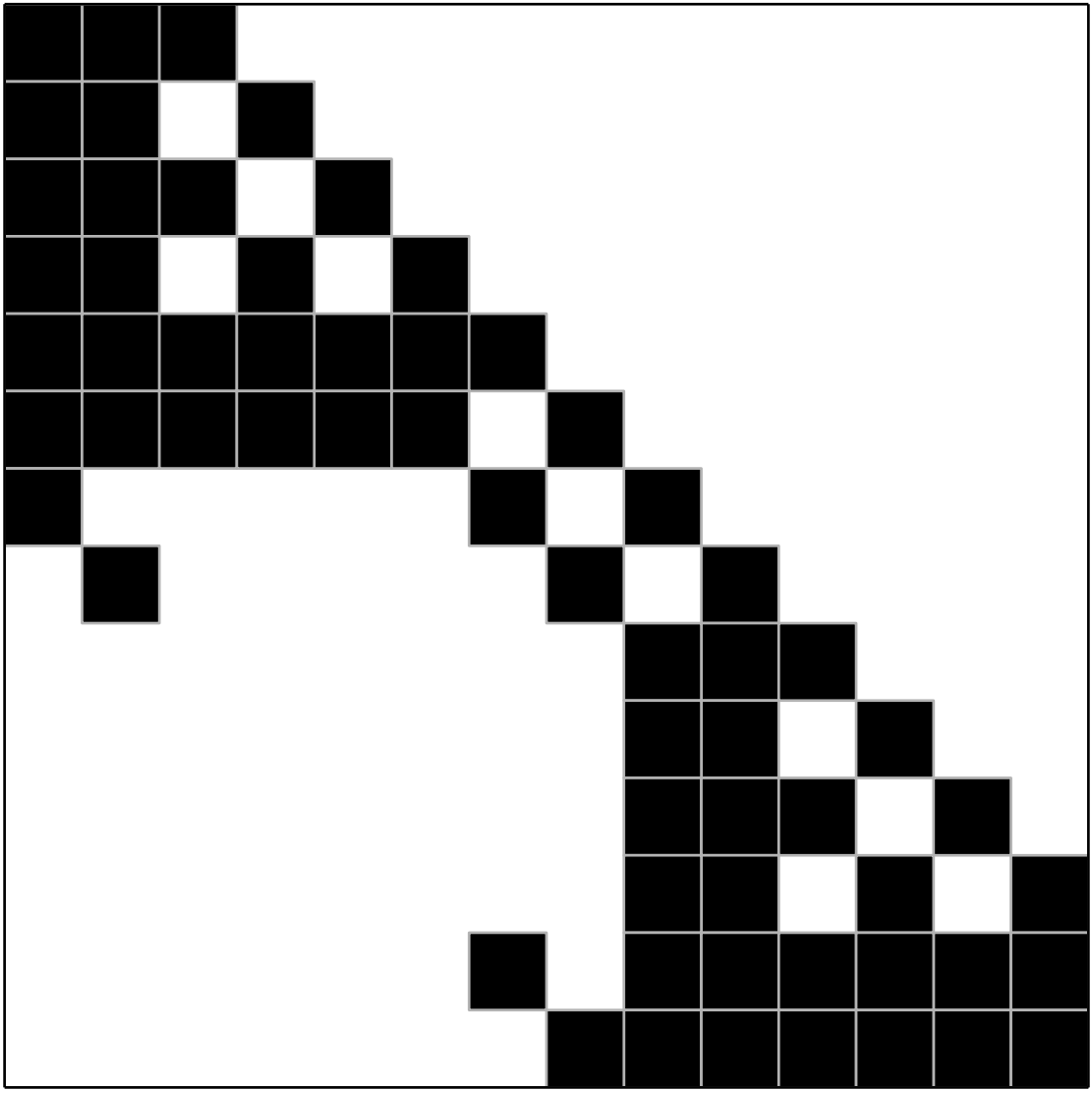



lib1_ex6_1_1-09, cost: 2, diff: 2, explored: 0, time: 0.00s, M

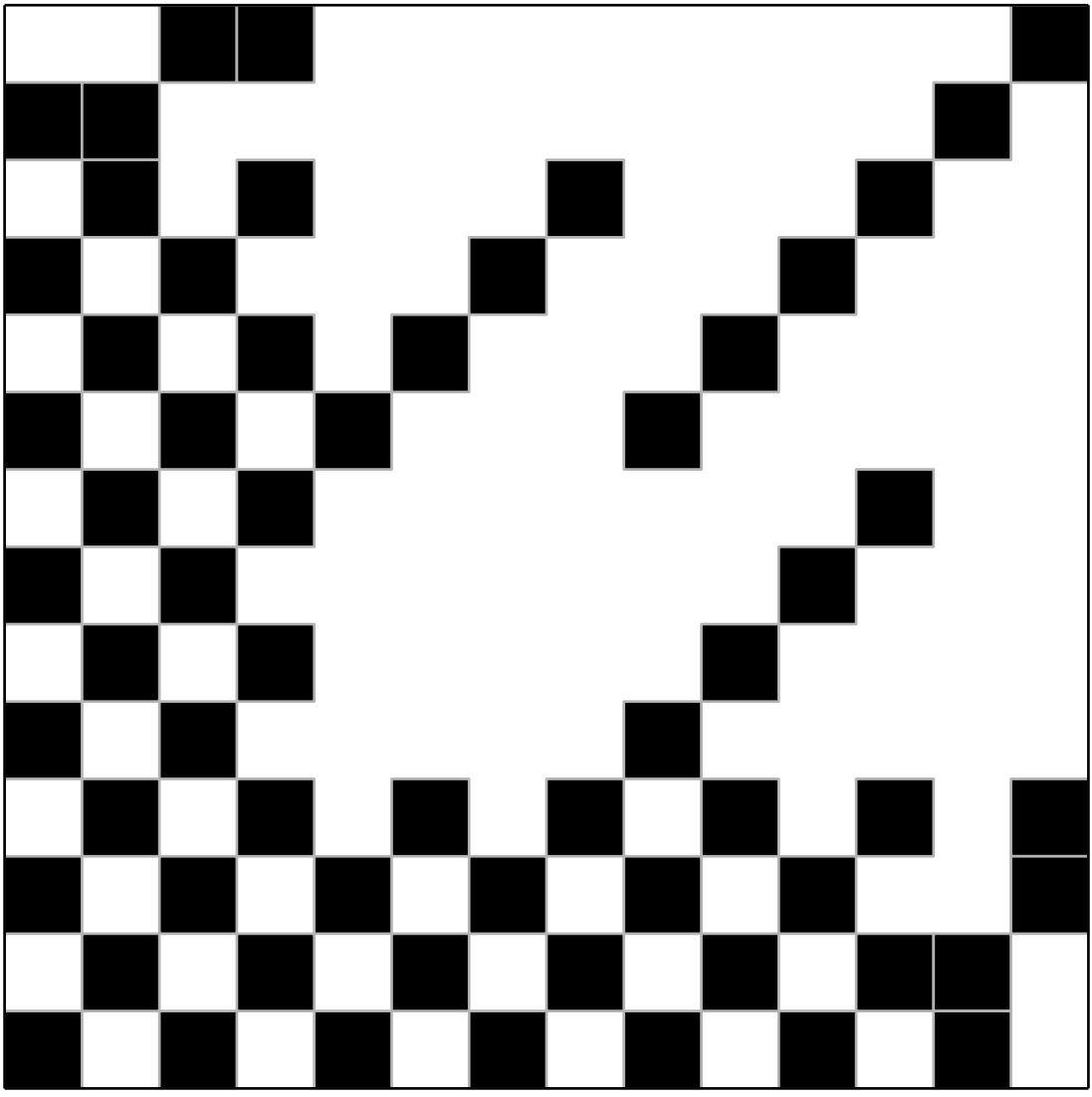
lib1_ex6_1_1-IN 14x14 (62) con: 6, var: 8

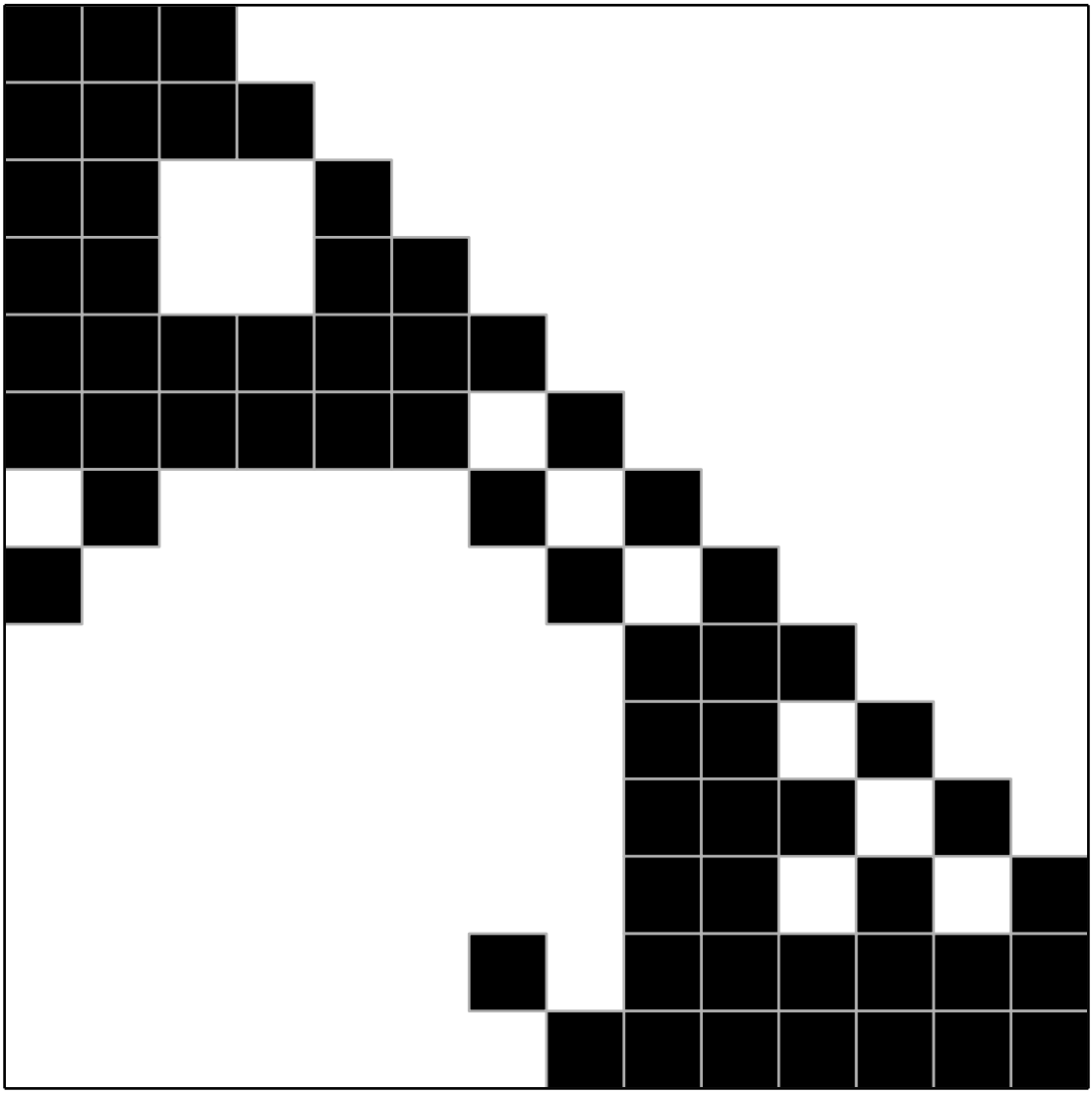


lib1_ex6_1_1-IN, cost: 2, diff: 2, explored: 0, time: 0.00s, M

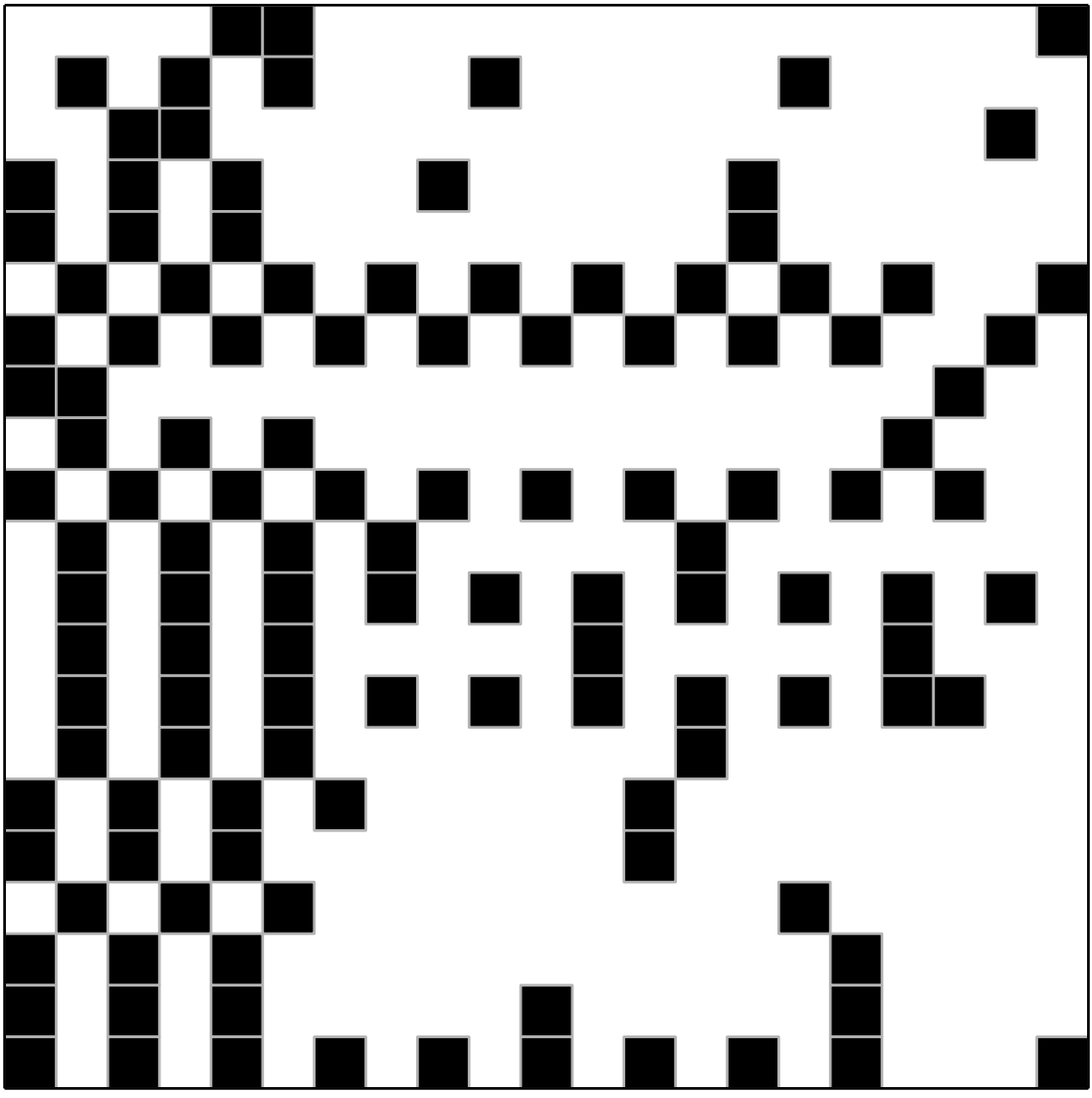


lib1_ex6_1_1-RE 14x14 (62) con: 6, var: 8

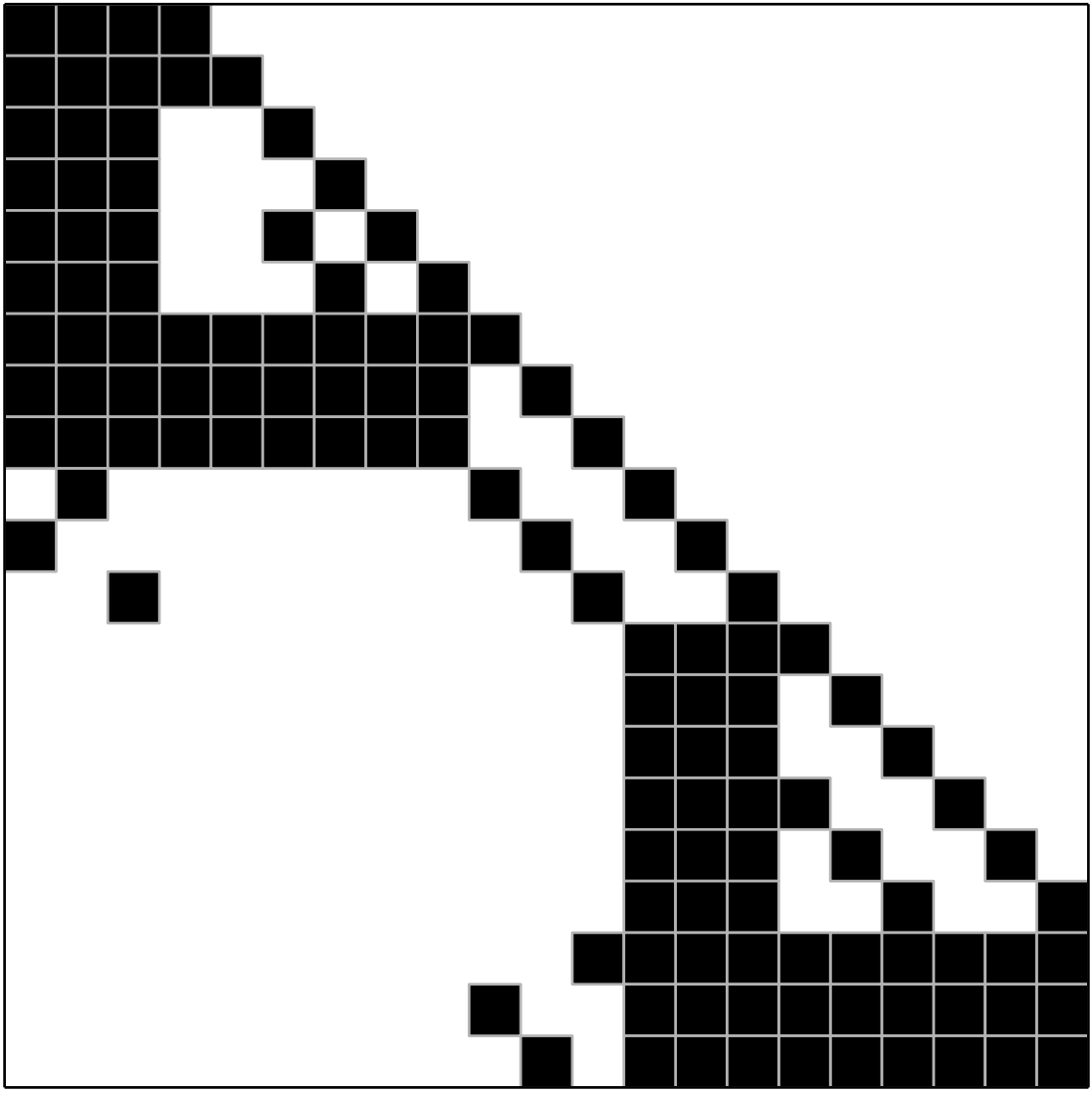



lib1_ex6_1_1-RE, cost: 2, diff: 2, explored: 3, time: 0.00s

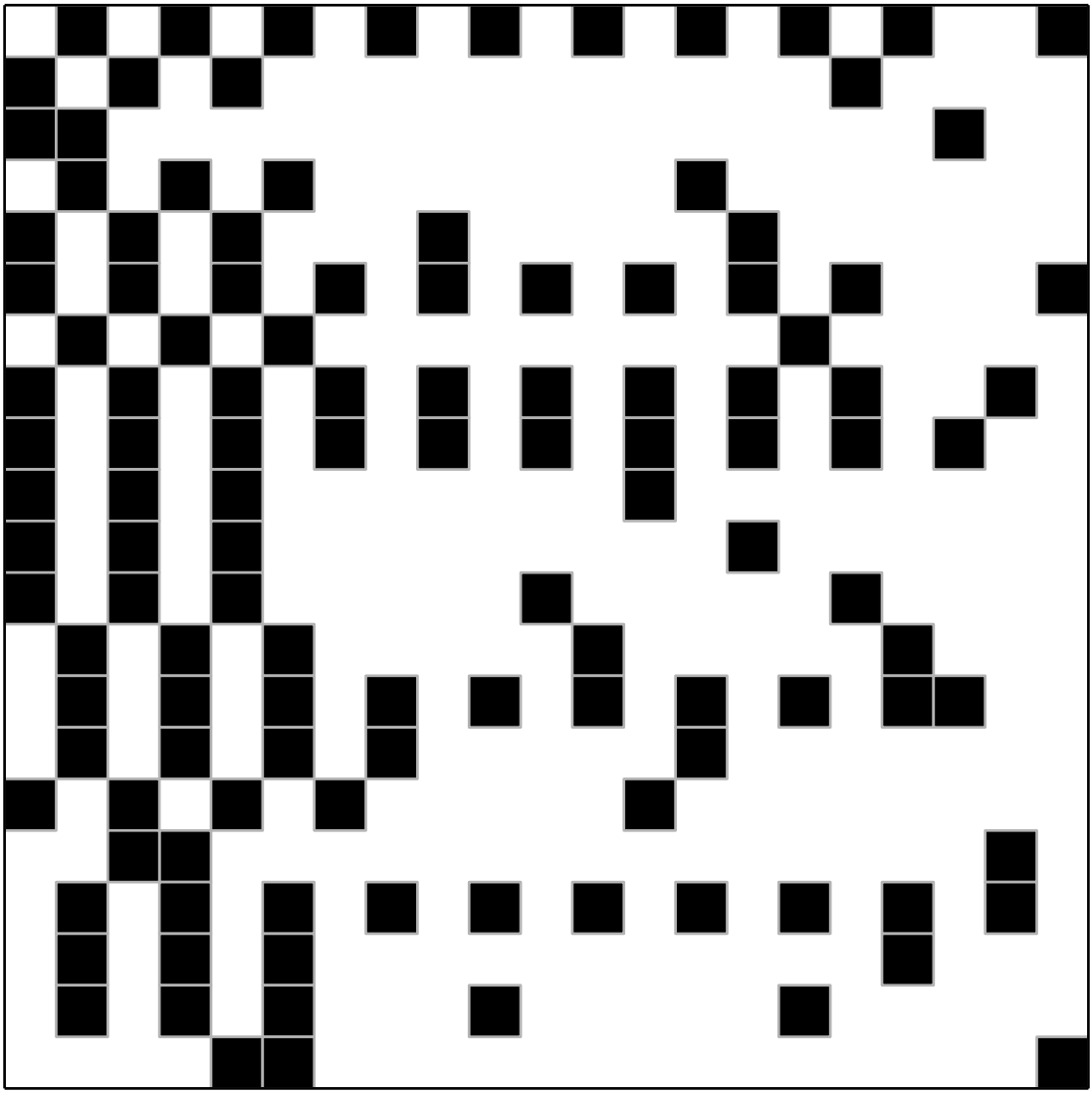
lib1_ex6_1_3-00 21x21 (123) con: 9, var: 12



lib1_ex6_1_3-00, cost: 3, diff: 3, explored: 6, time: 0.00s



lib1_ex6_1_3-01 21x21 (123) con: 9, var: 12



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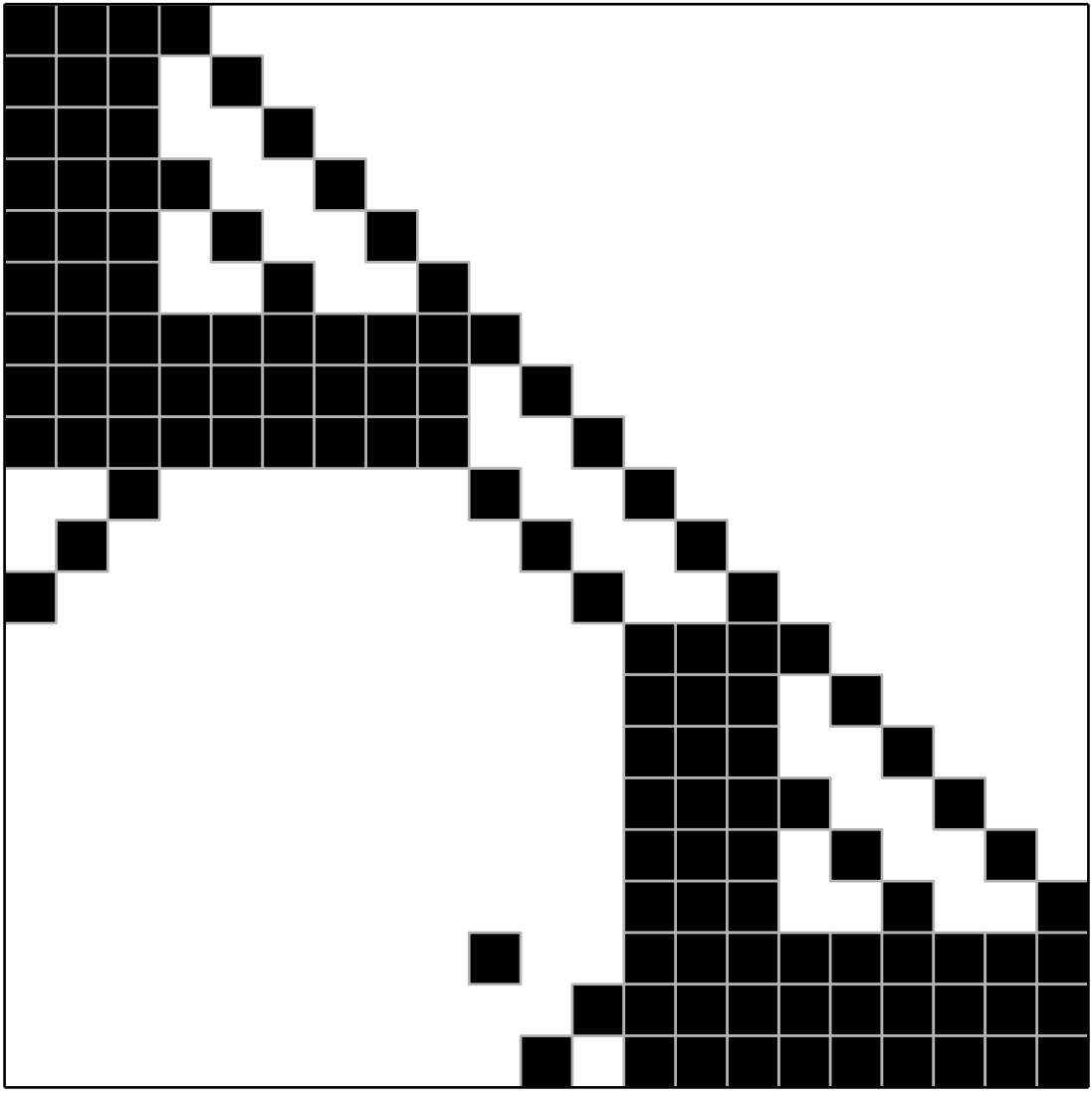
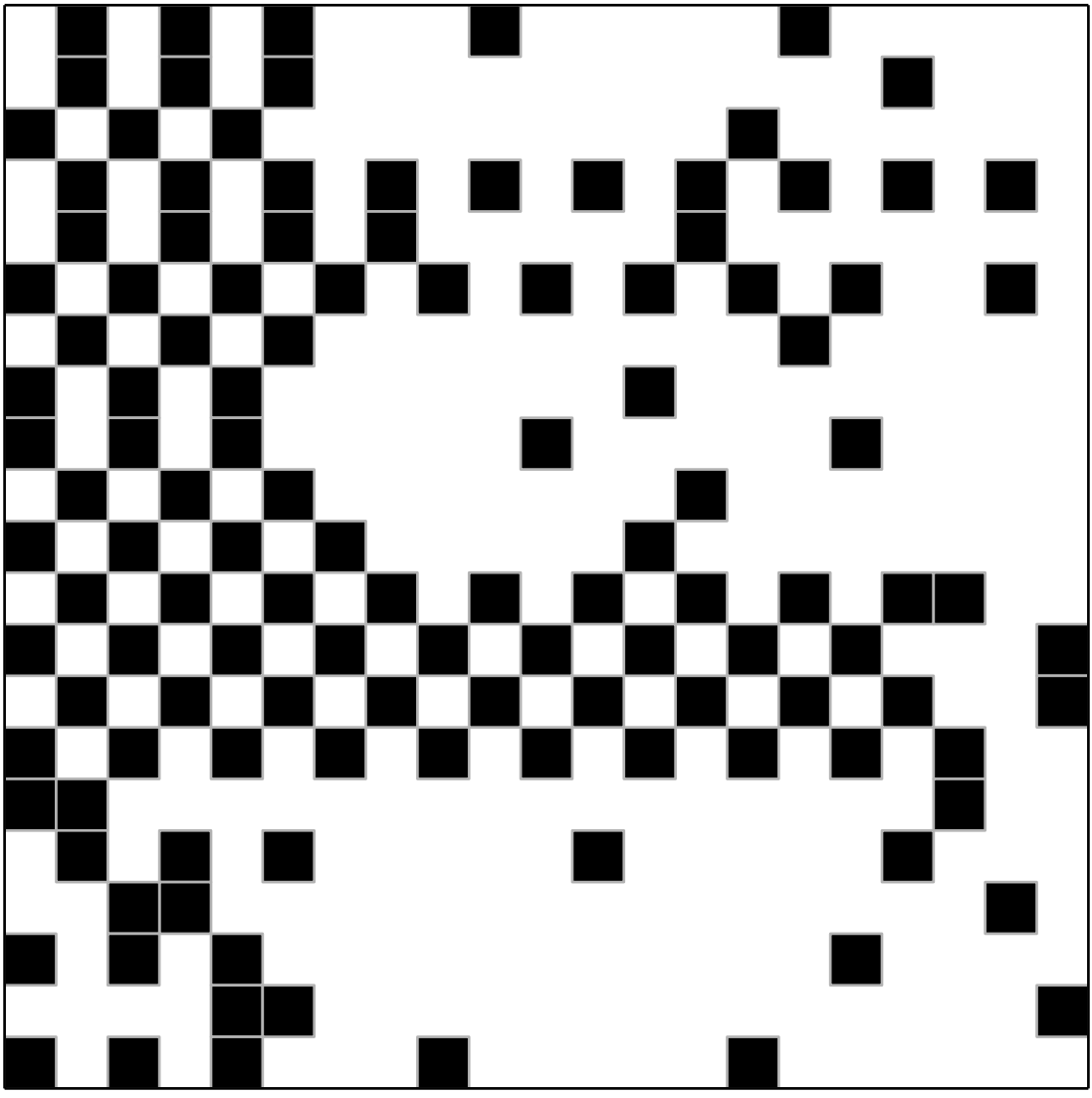


lib1_ex6_1_3-02 21x21 (123) con: 9, var: 12



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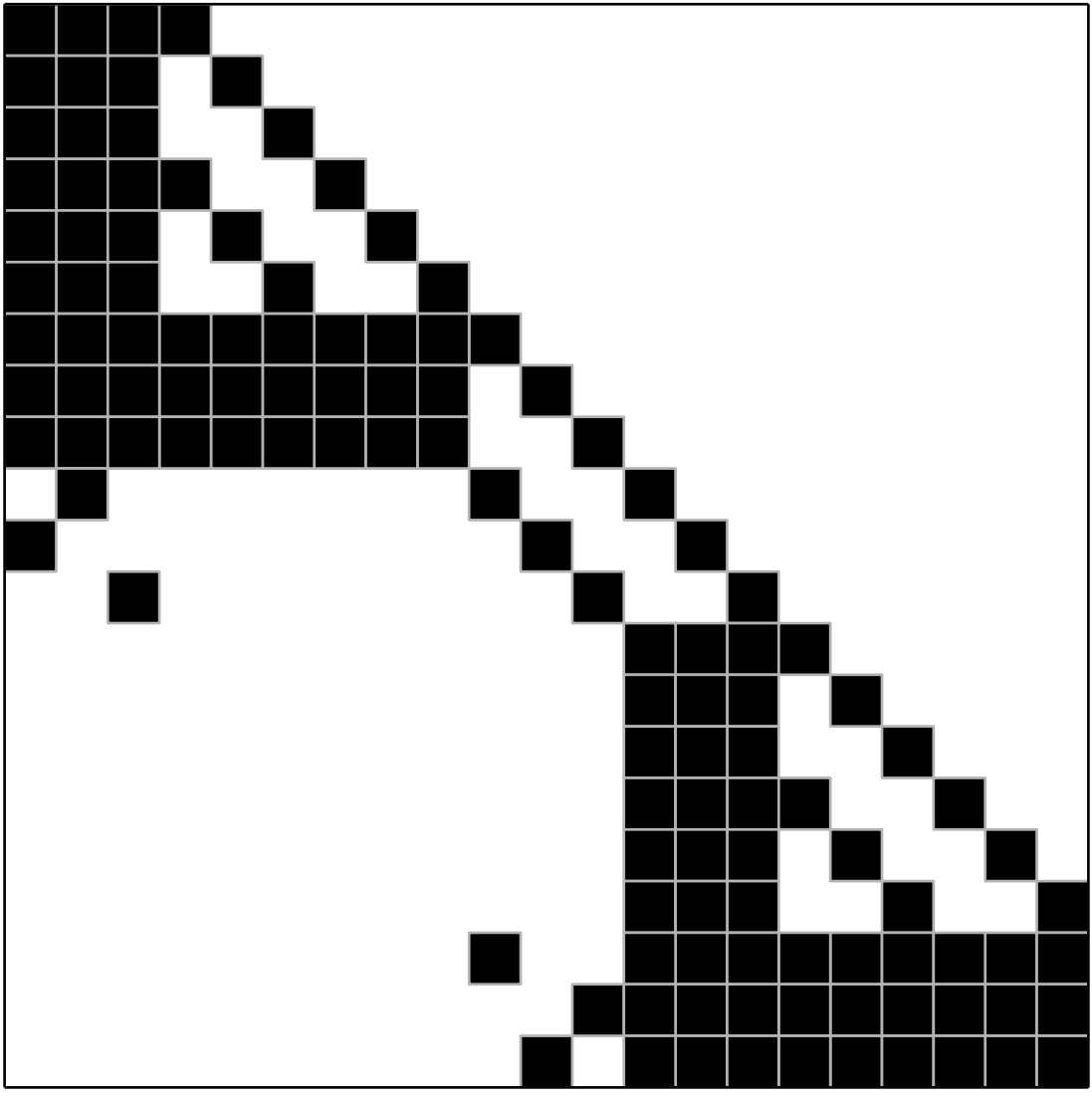
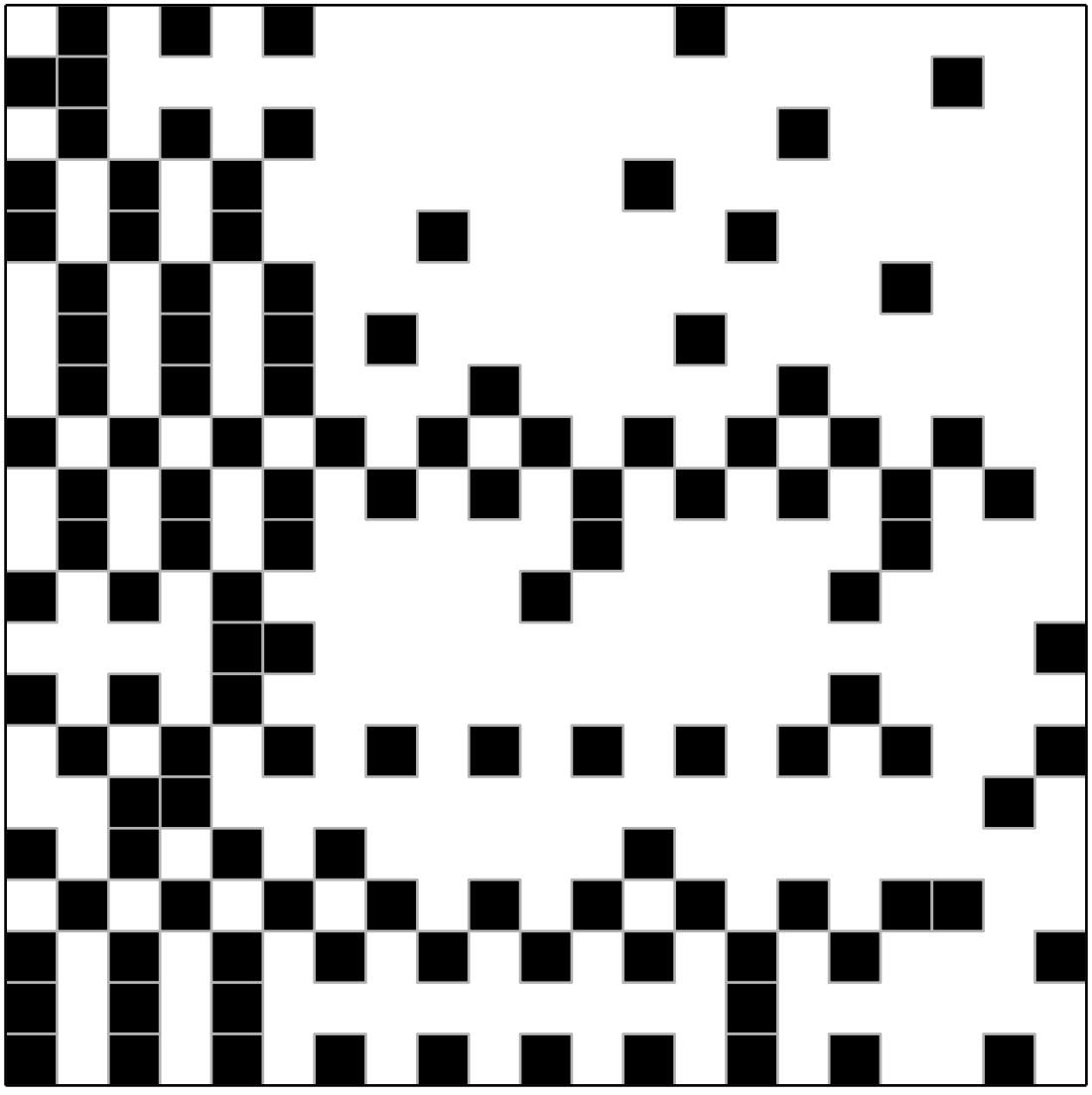


lib1_ex6_1_3-03 21x21 (123) con: 9, var: 12



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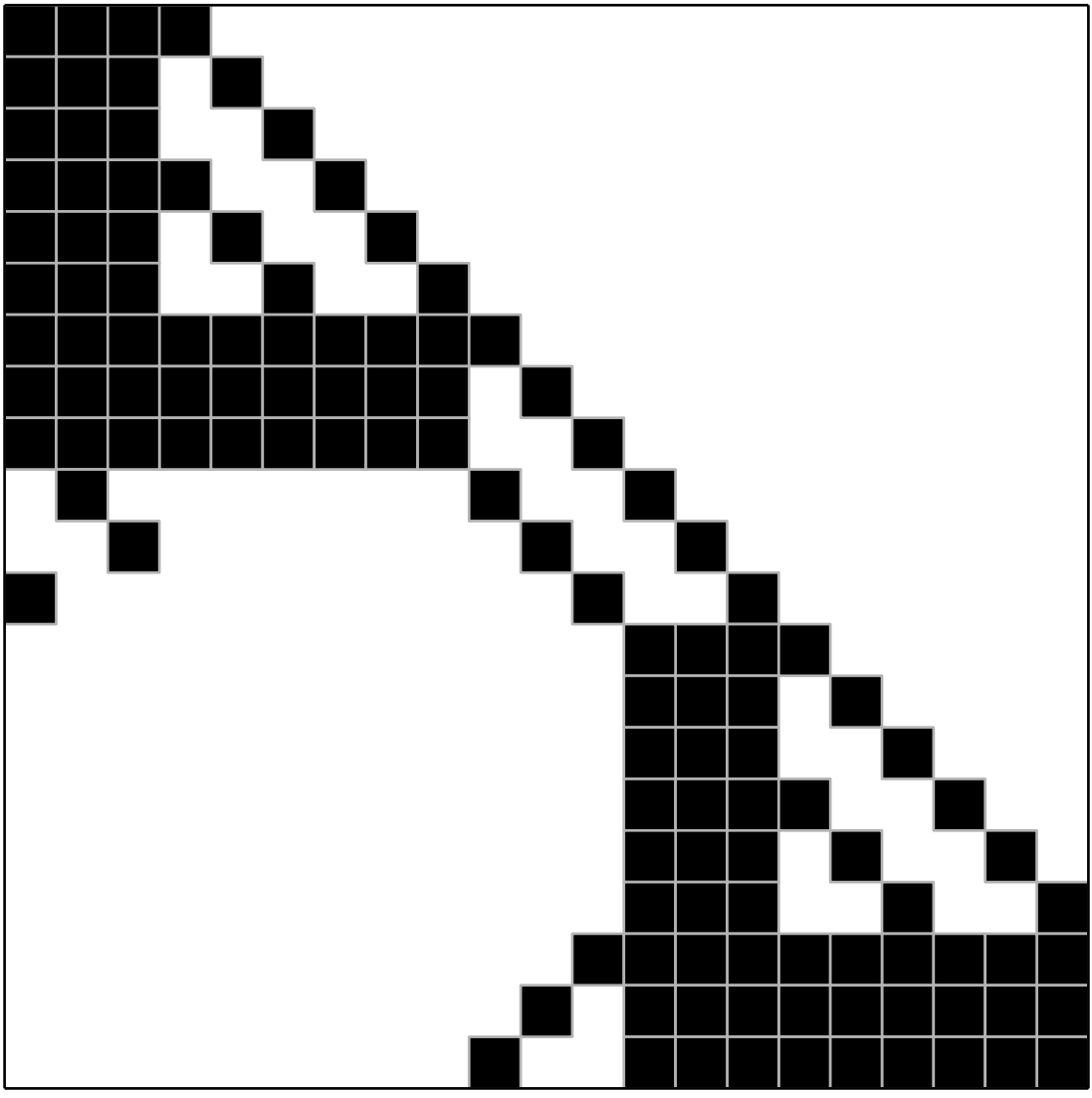
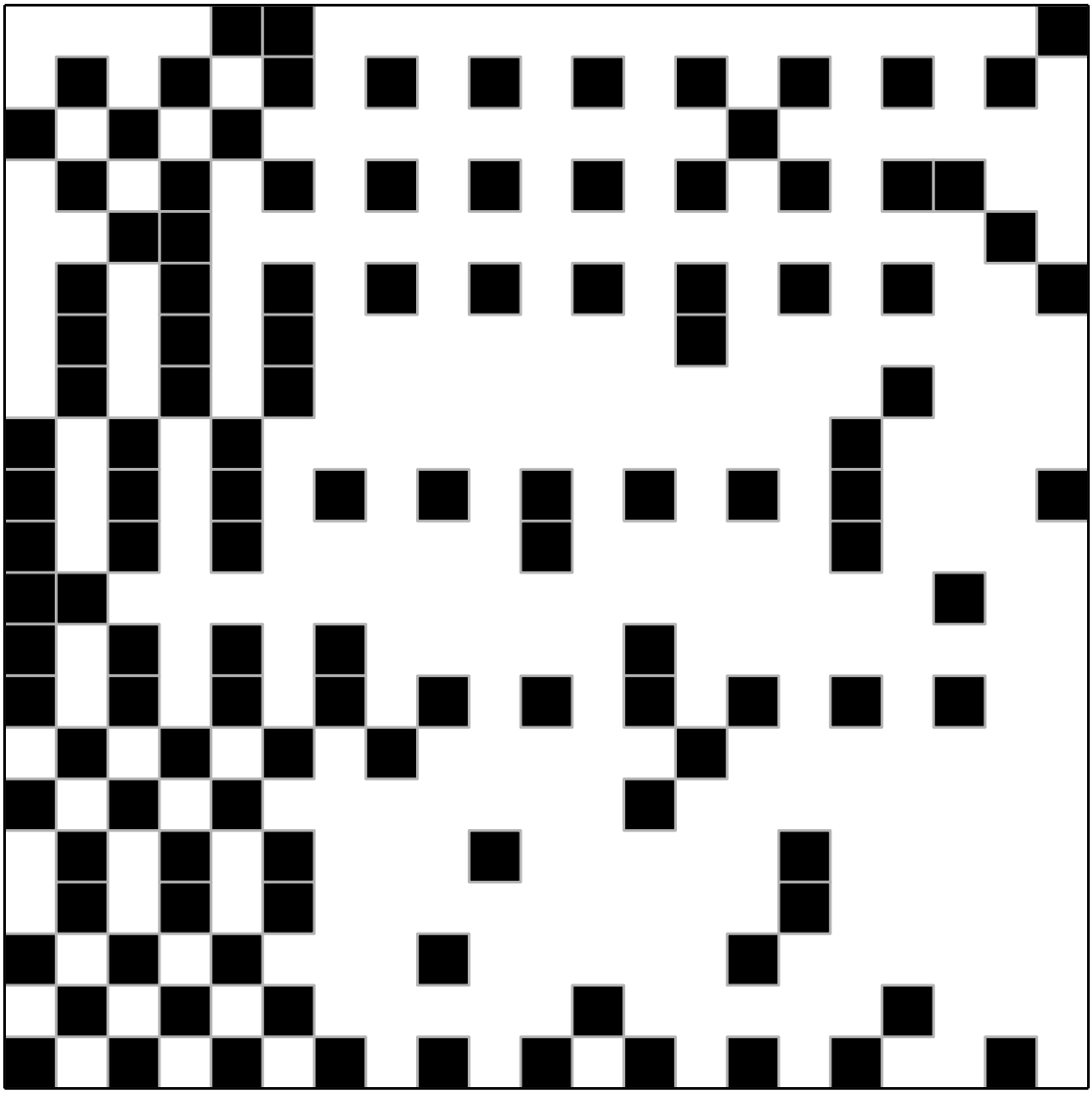


lib1_ex6_1_3-04 21x21 (123) con: 9, var: 12



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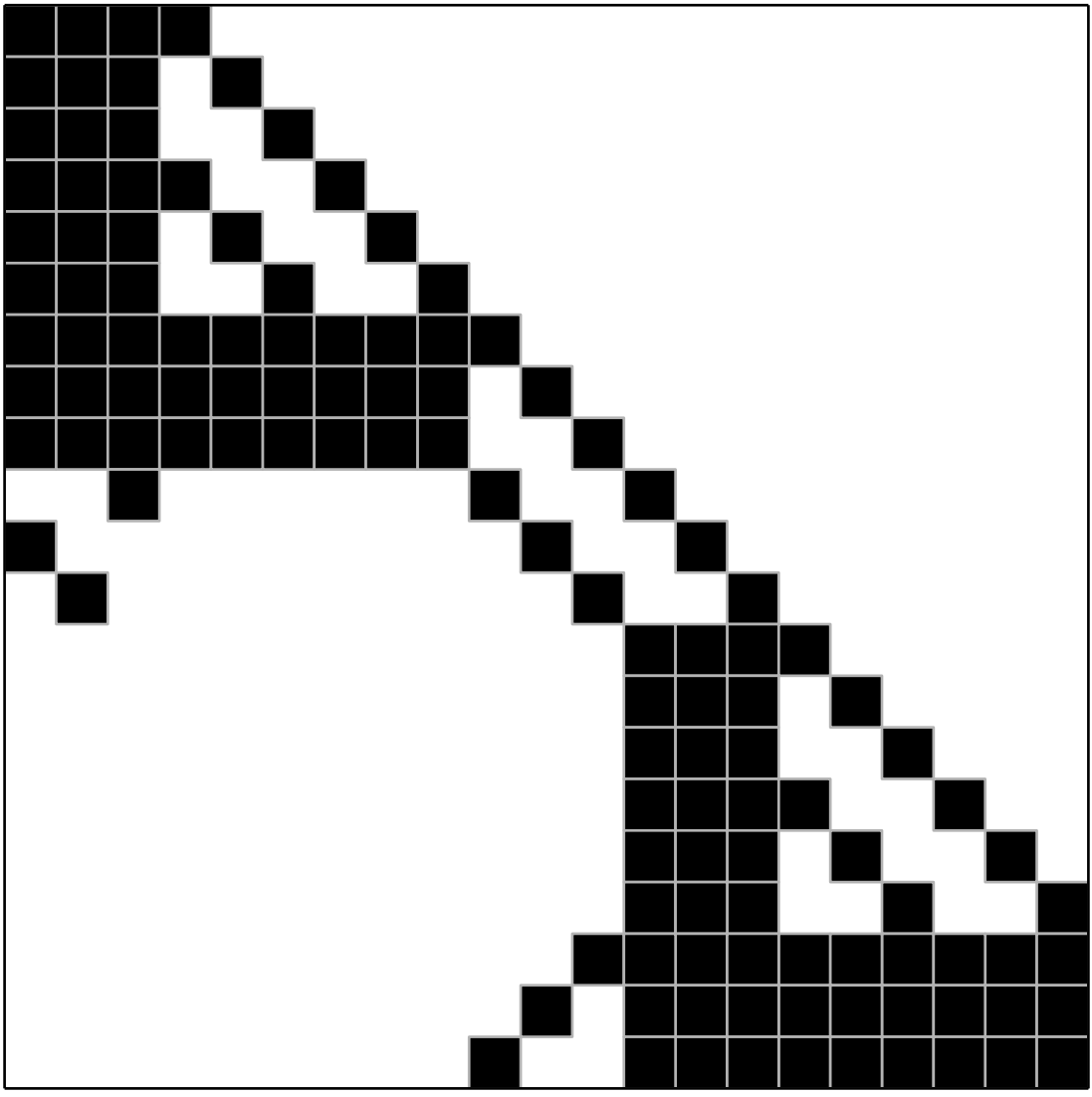

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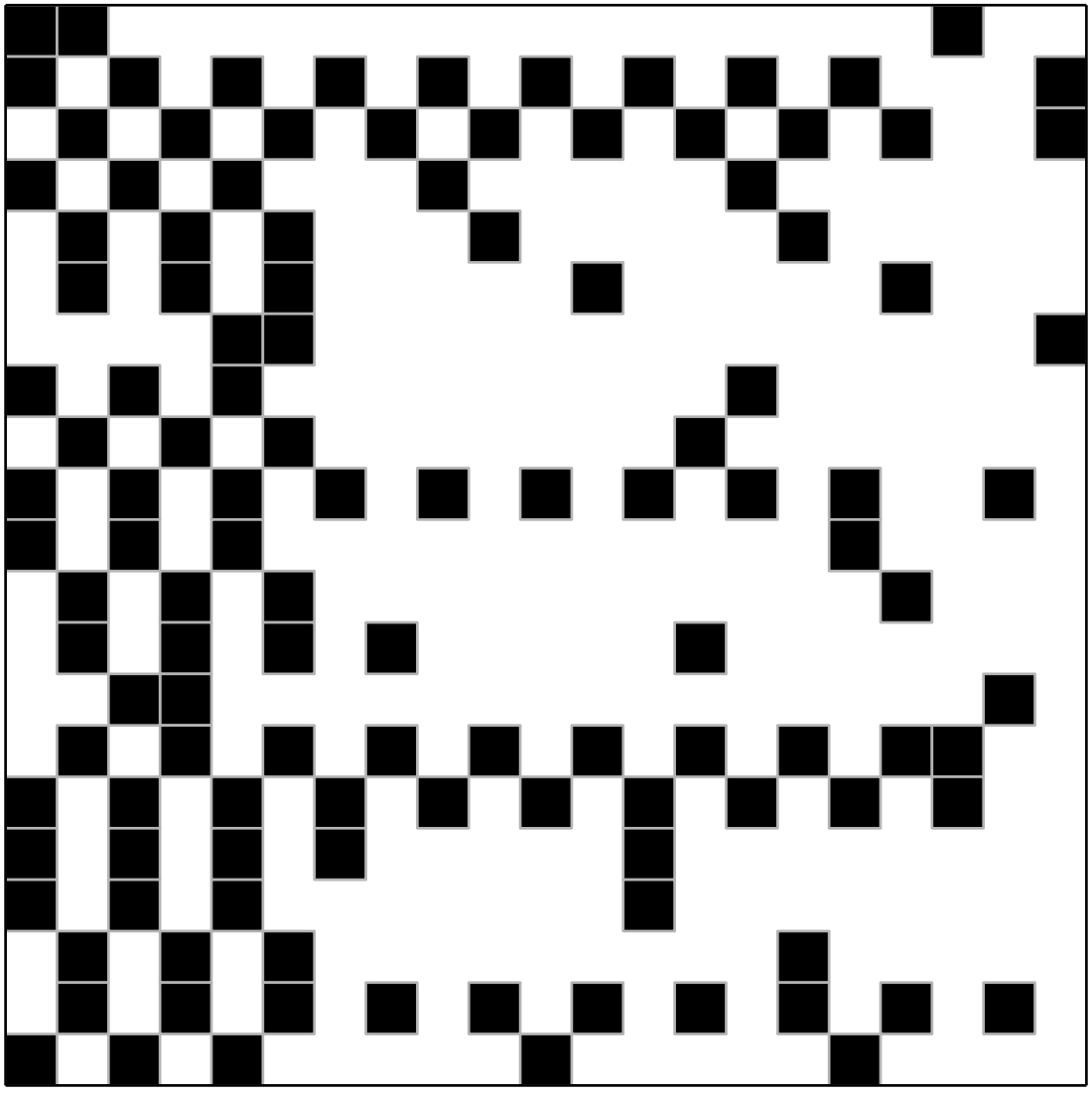

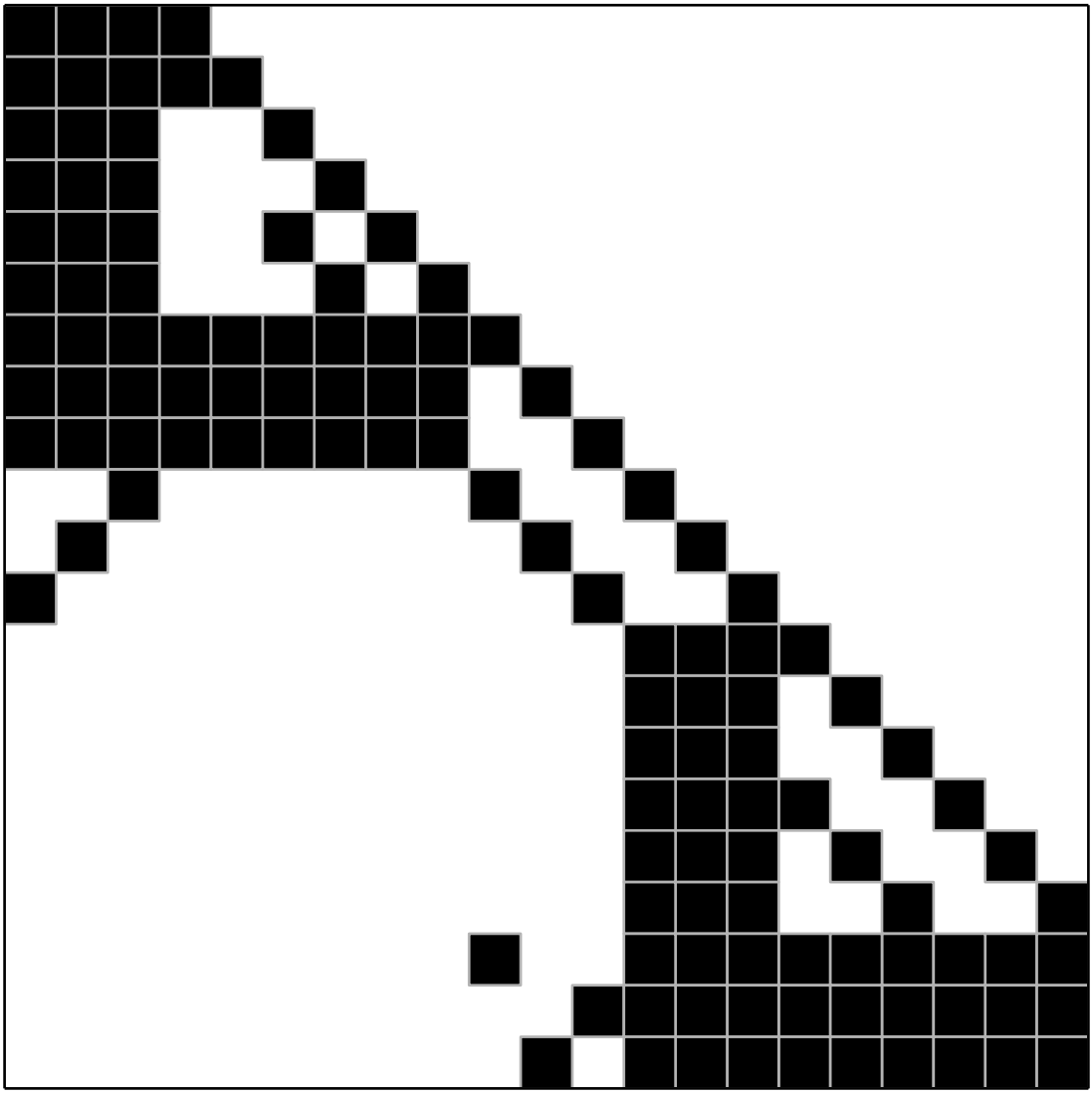
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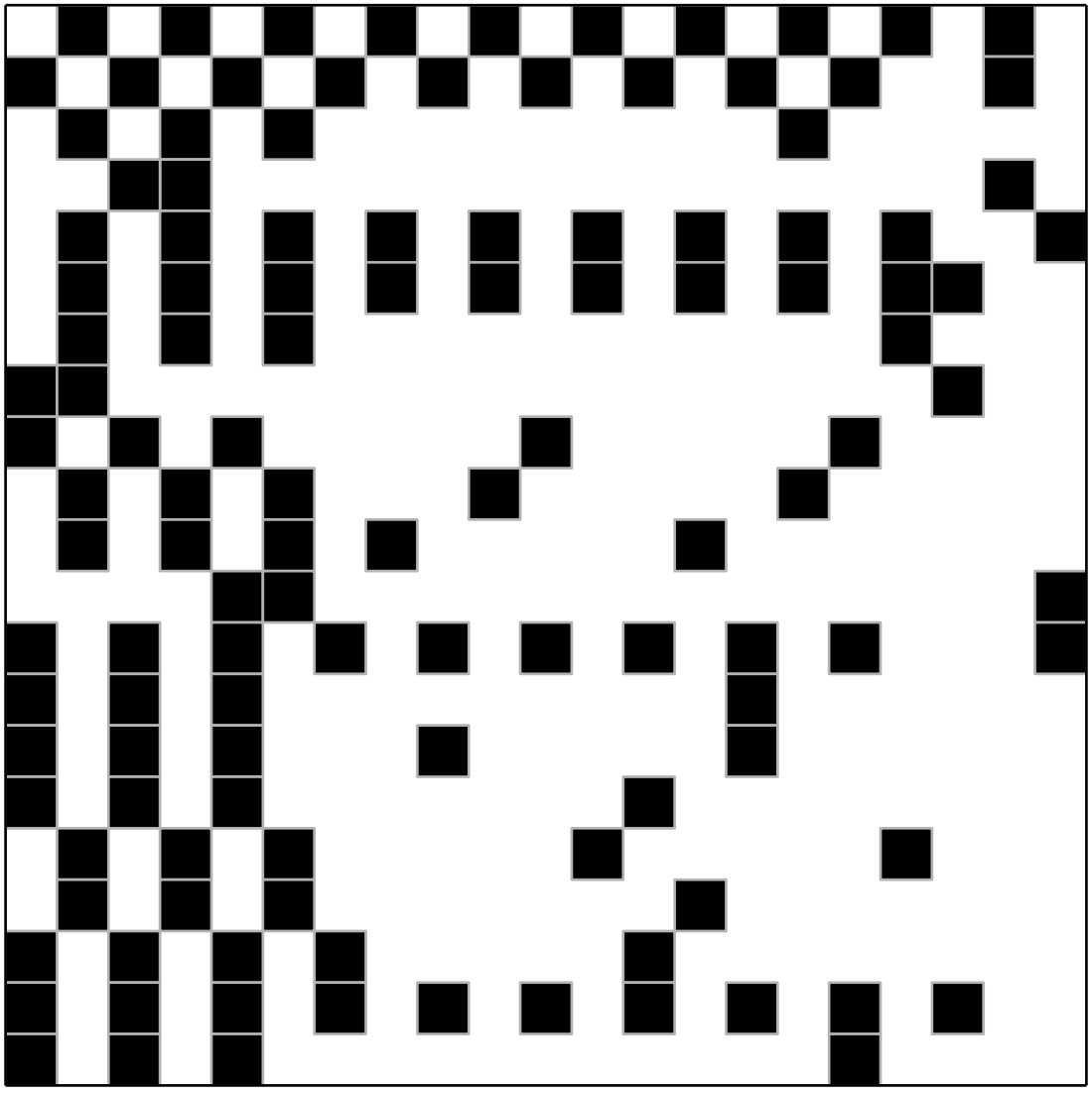
lib1_ex6_1_3-06 21x21 (123) con: 9, var: 12



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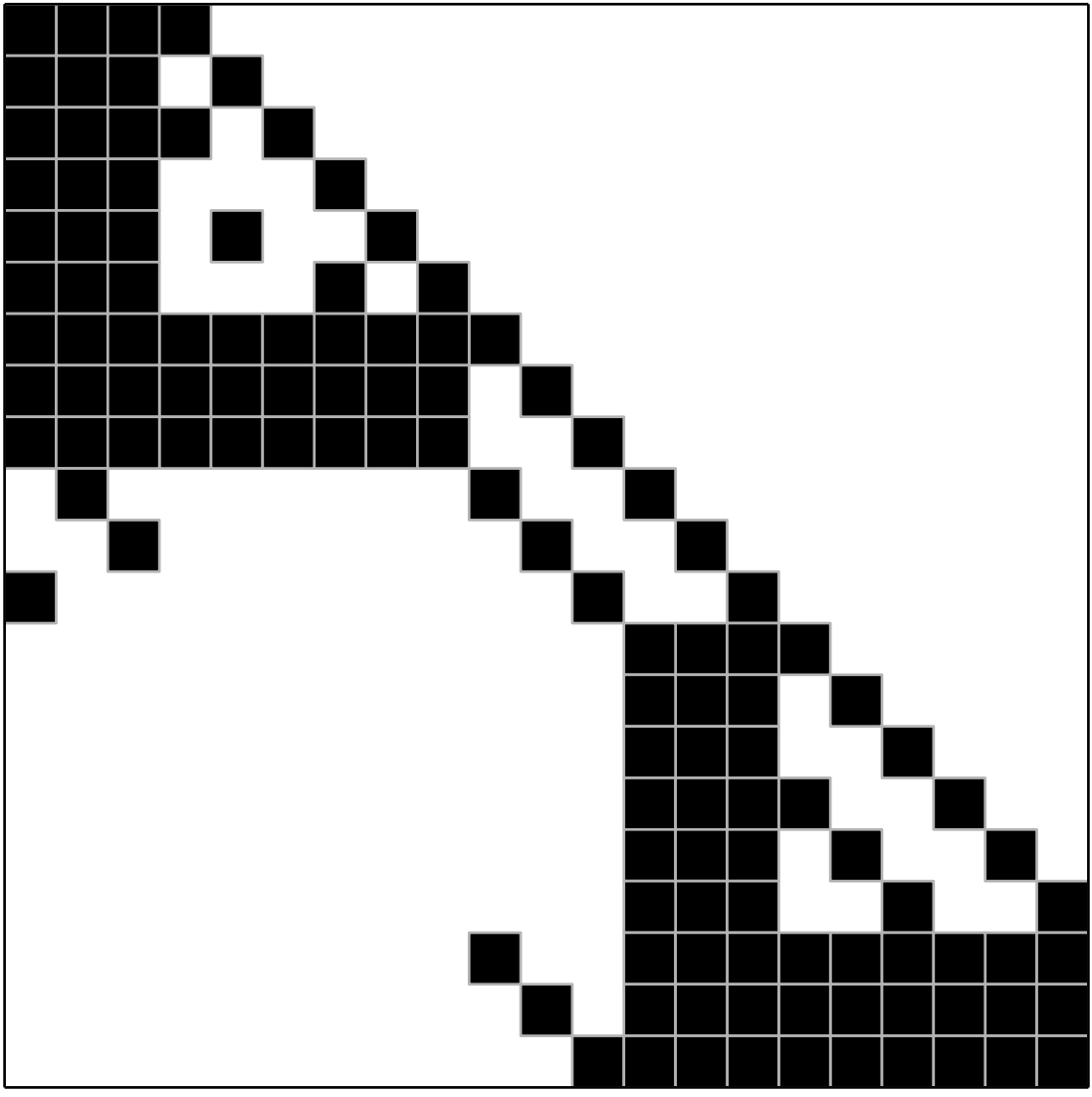
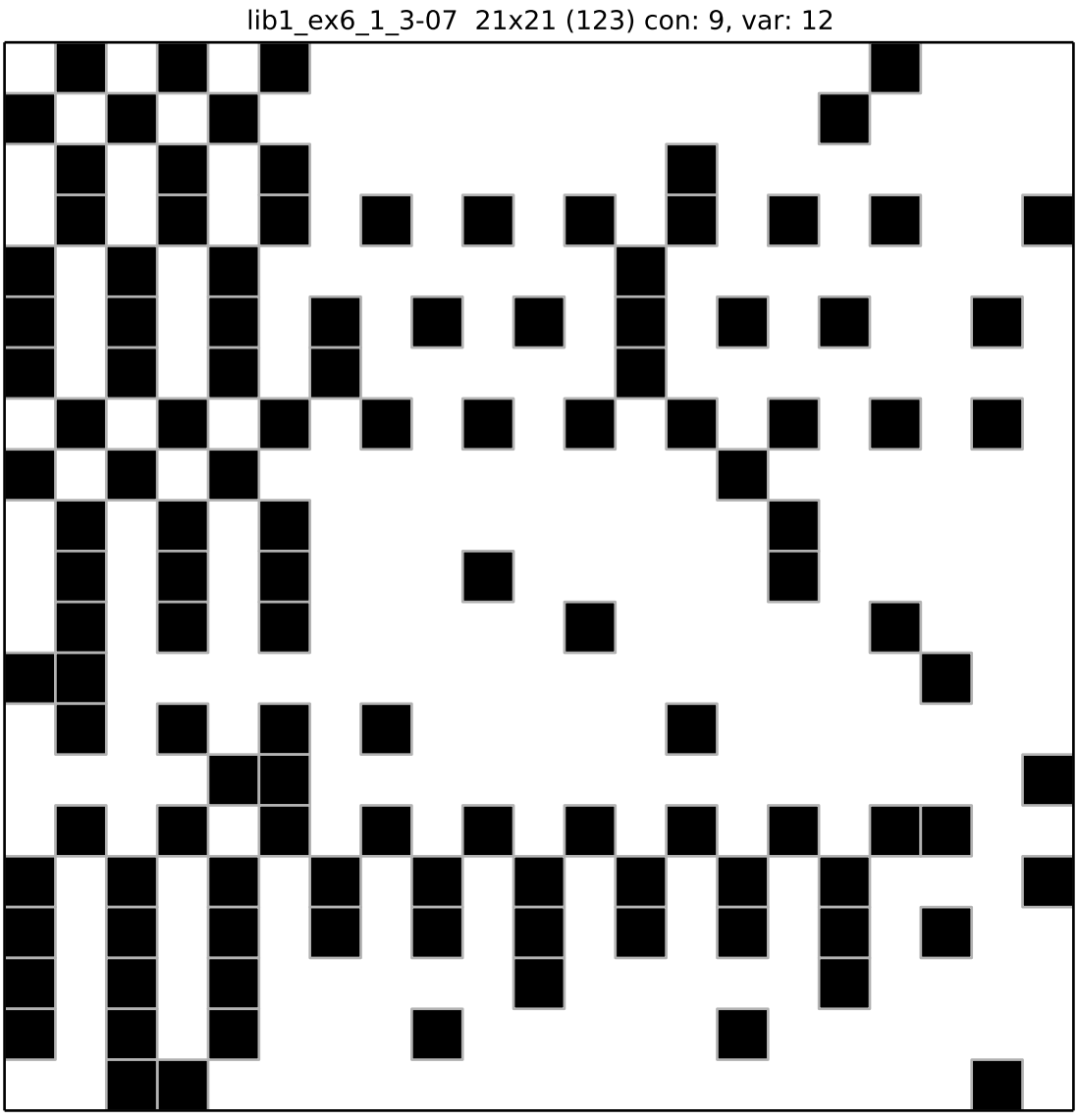
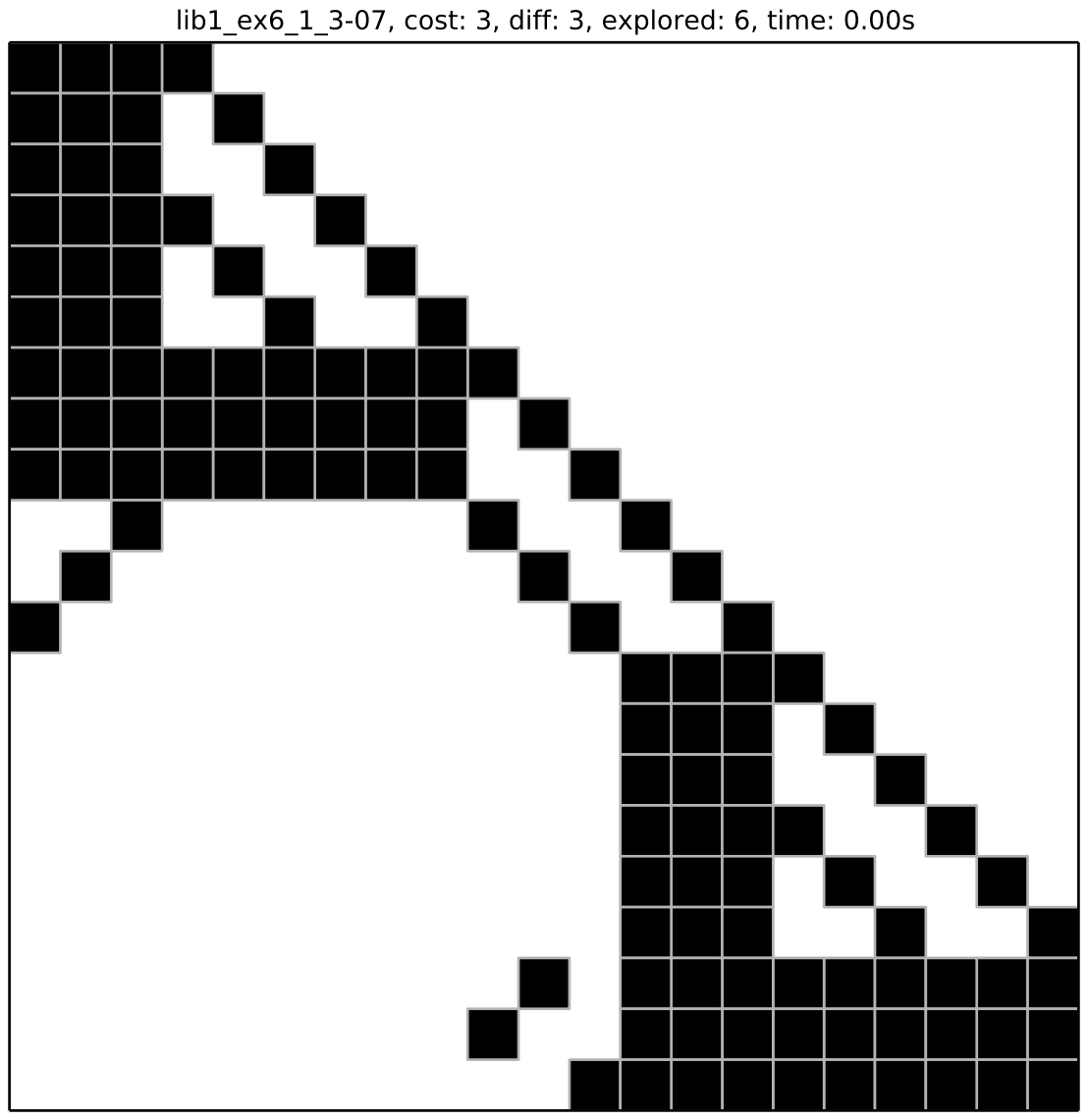



lib1_ex6_1_3-07 21x21 (123) con: 9, var: 12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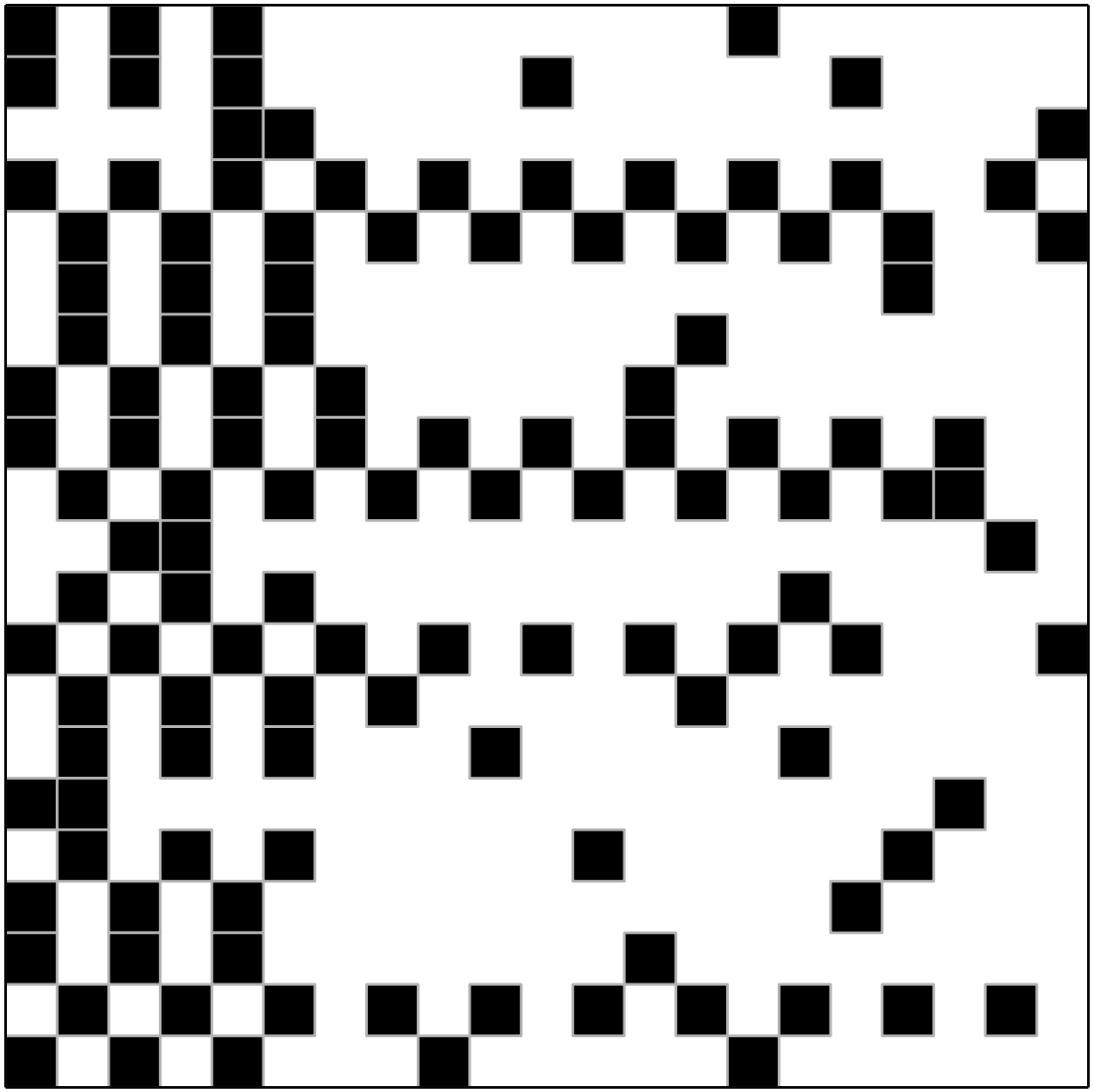
lib1_ex6_1_3-08 21x21 (123) con: 9, var: 12



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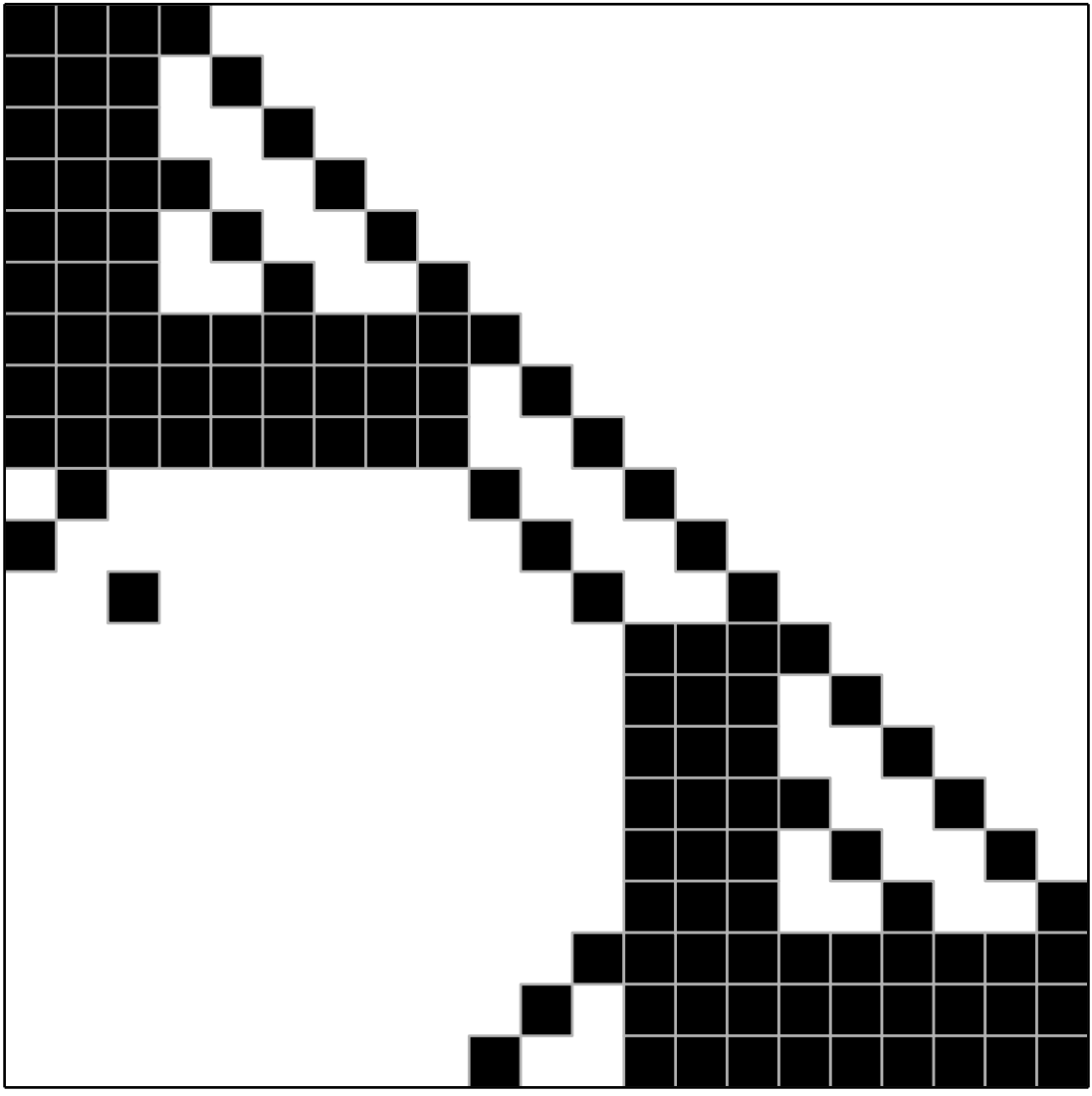
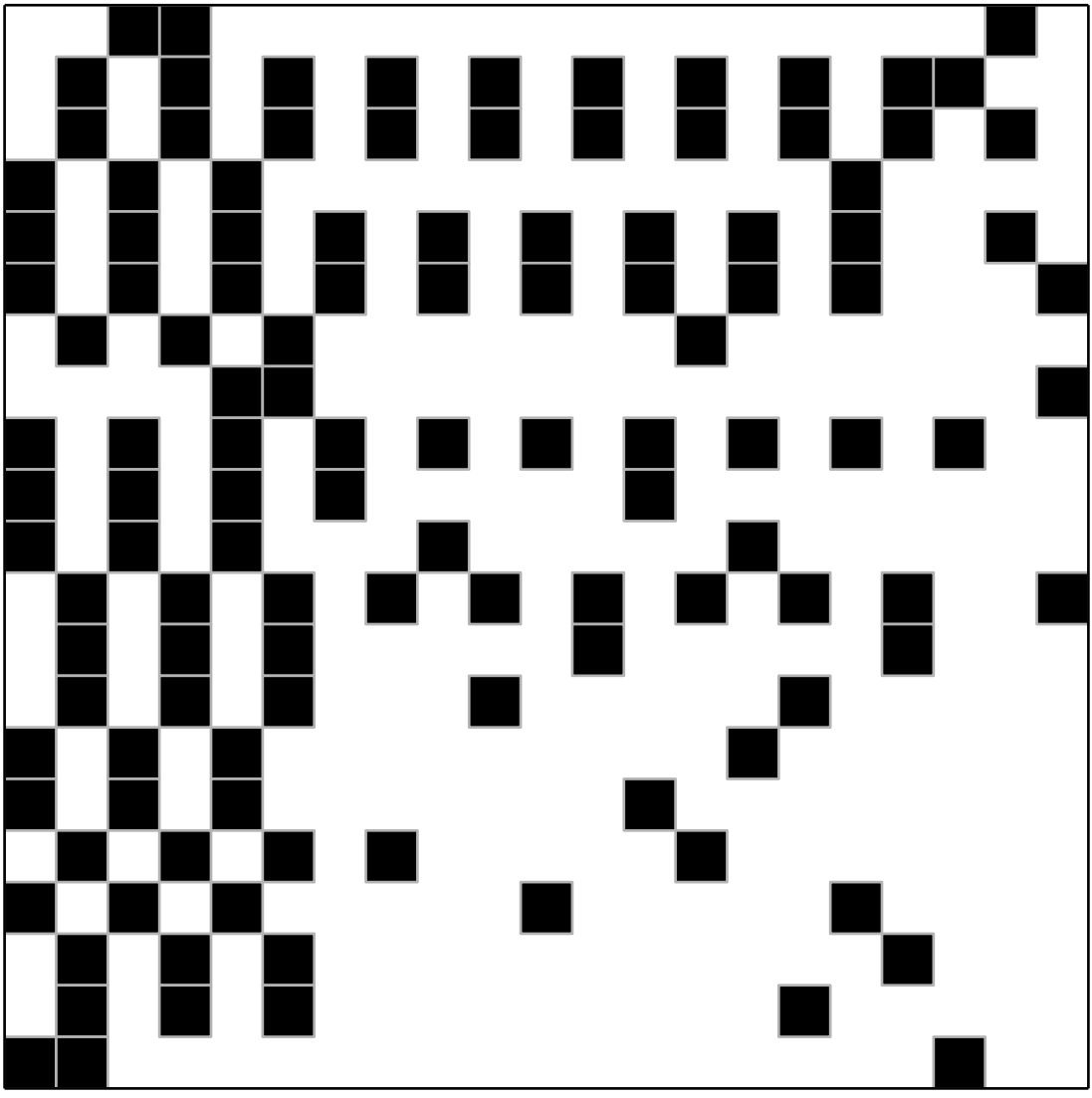


lib1_ex6_1_3-09 21x21 (123) con: 9, var: 12



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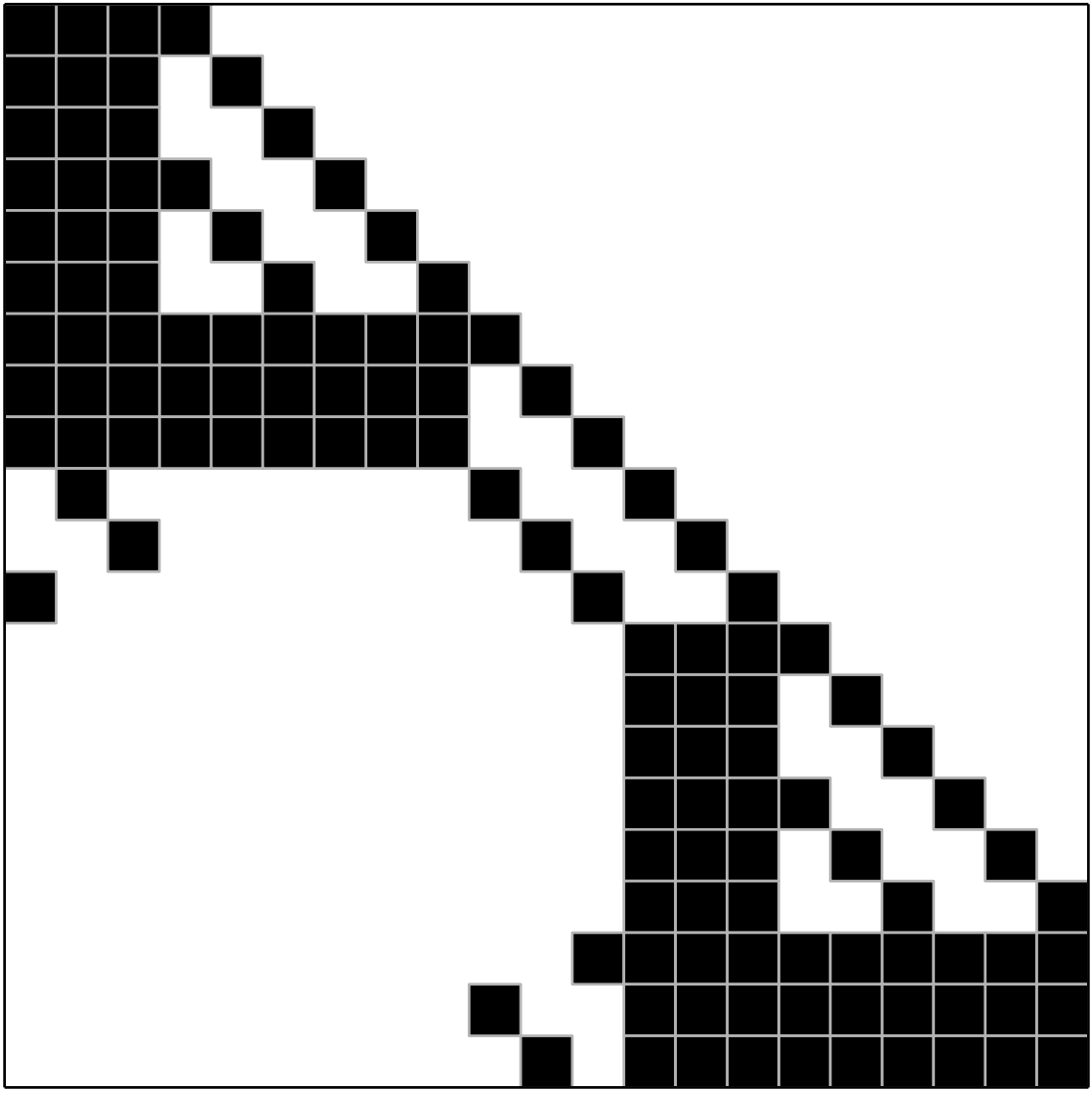
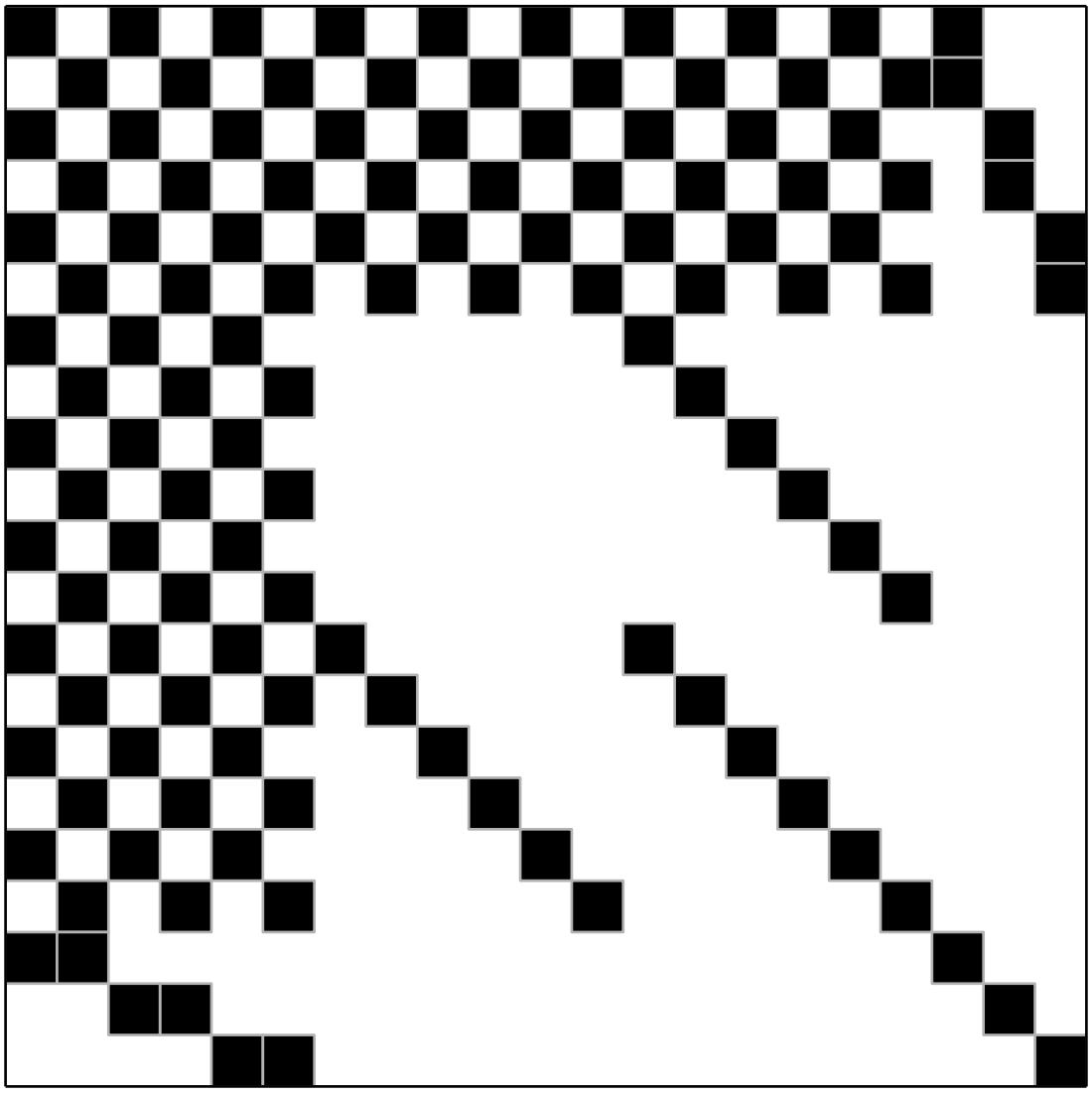
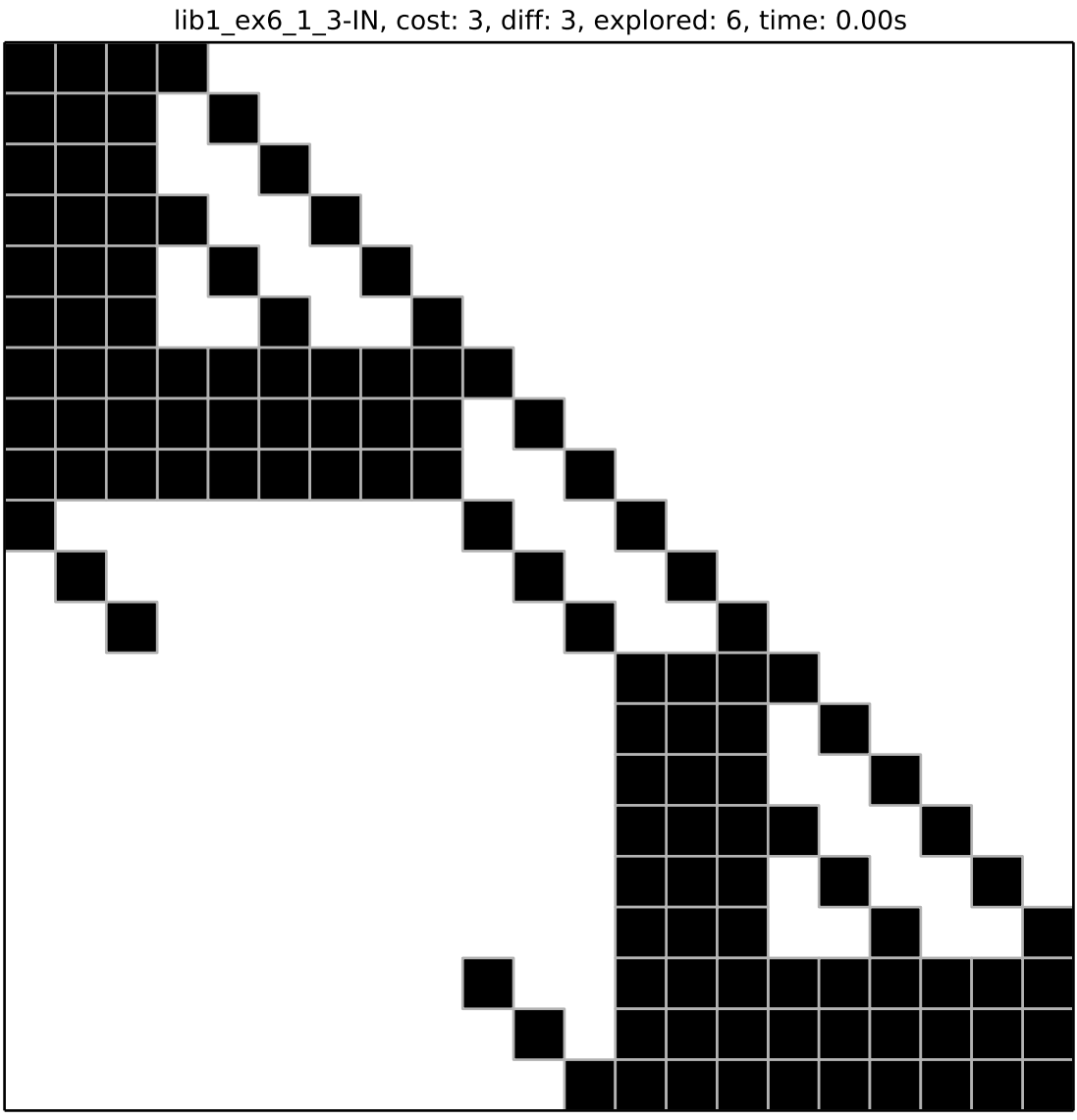



lib1_ex6_1_3-IN 21x21 (123) con: 9, var: 12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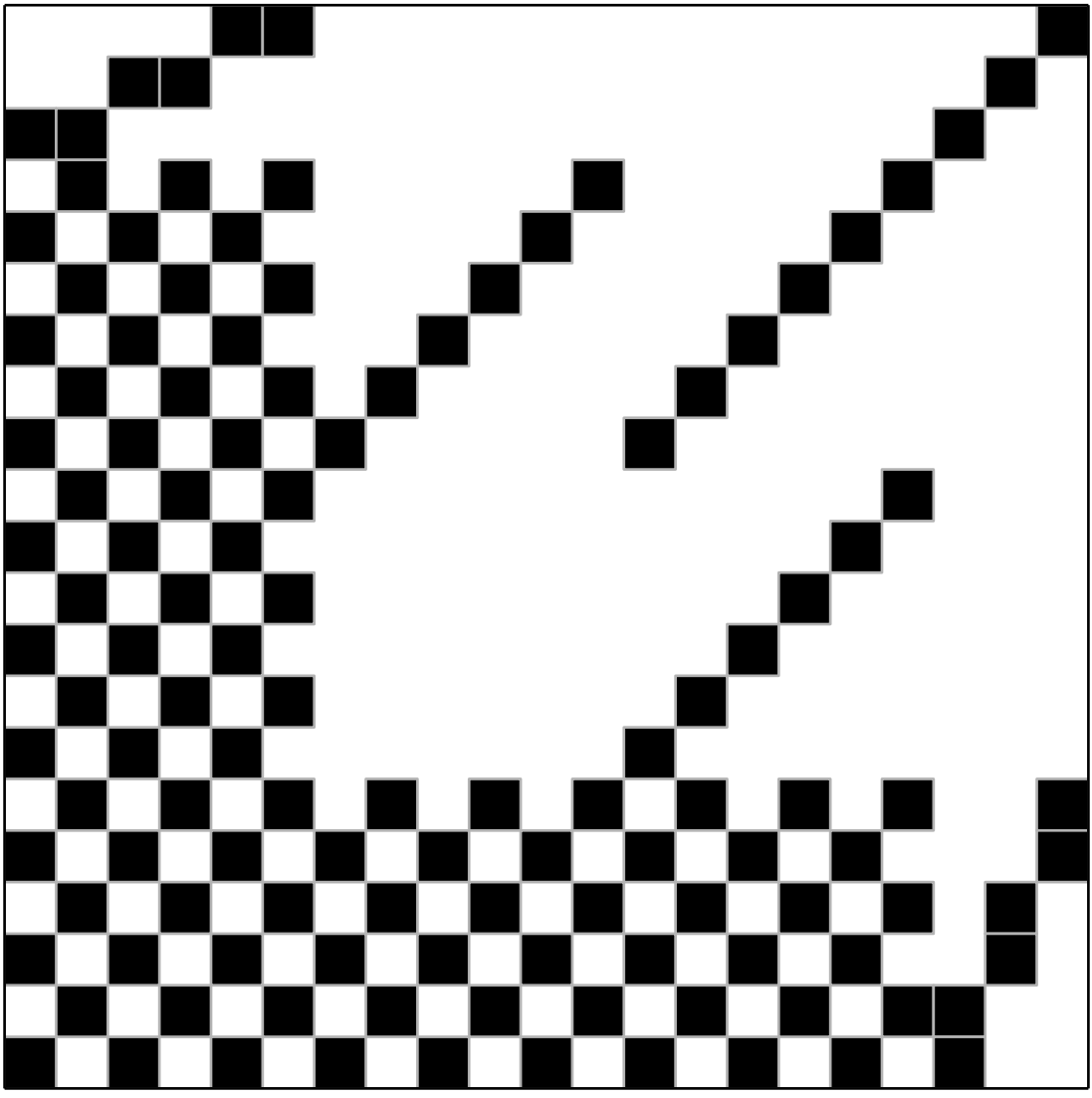
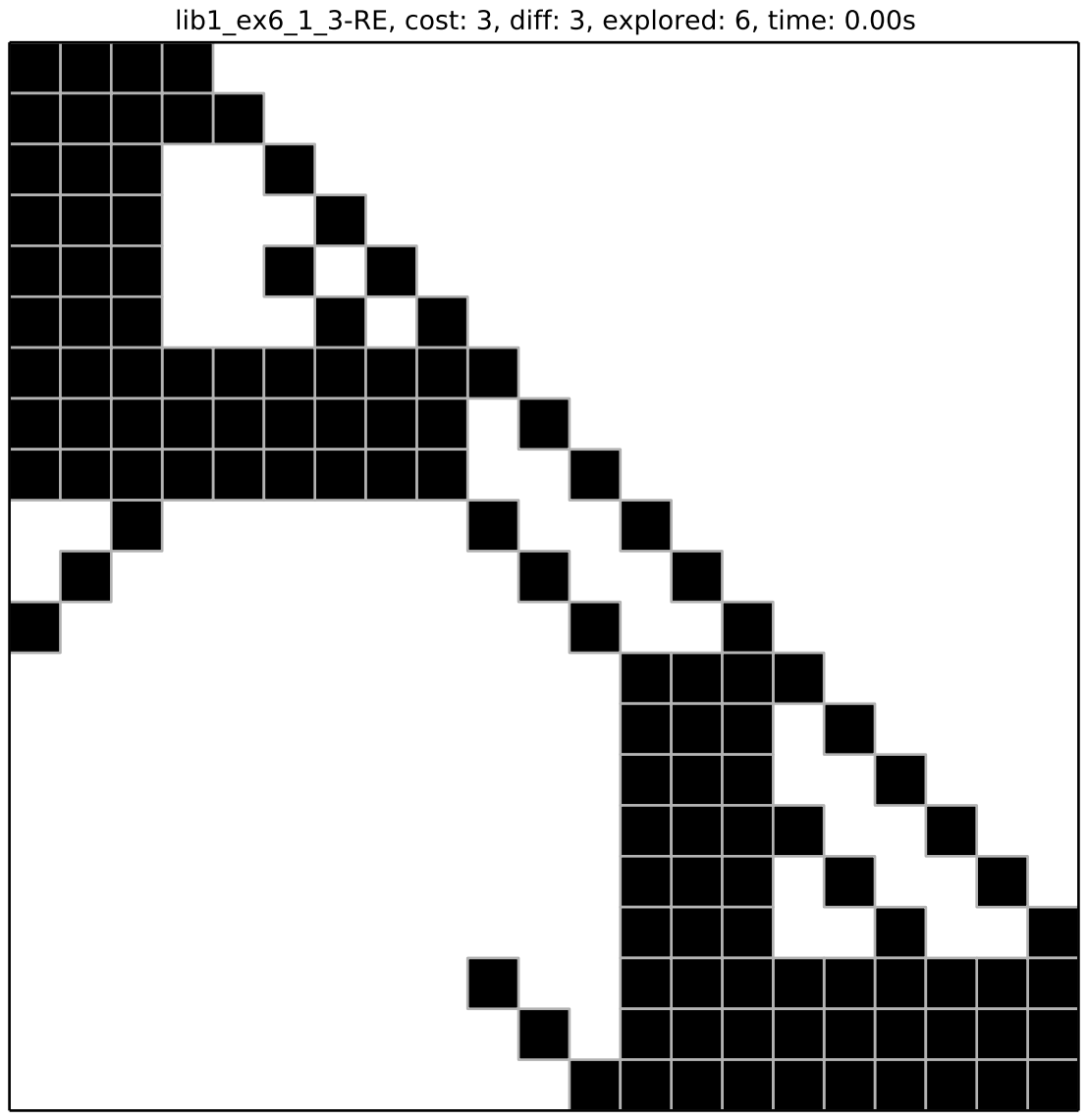
lib1_ex6_1_3-RE 21x21 (123) con: 9, var: 12

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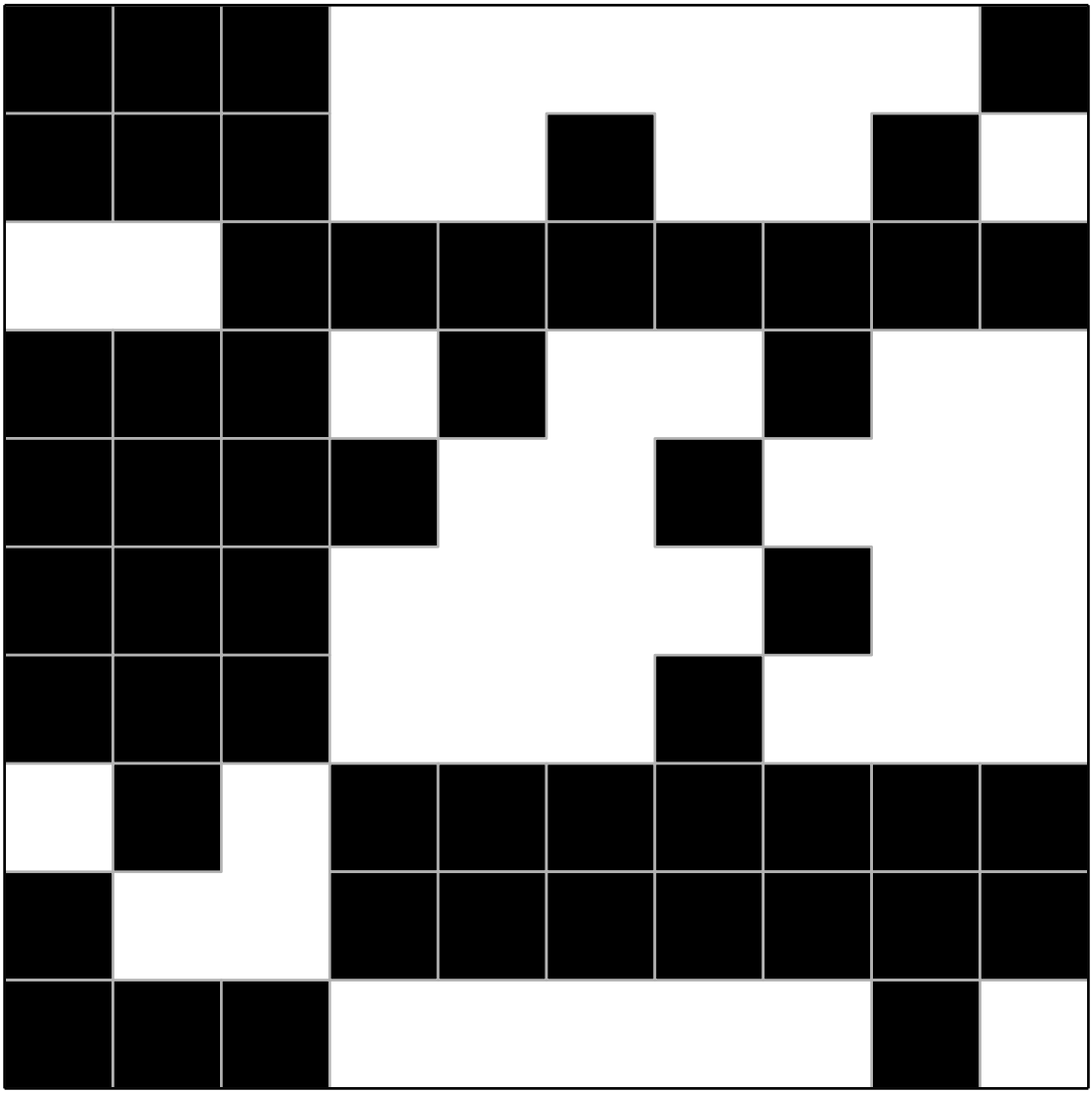
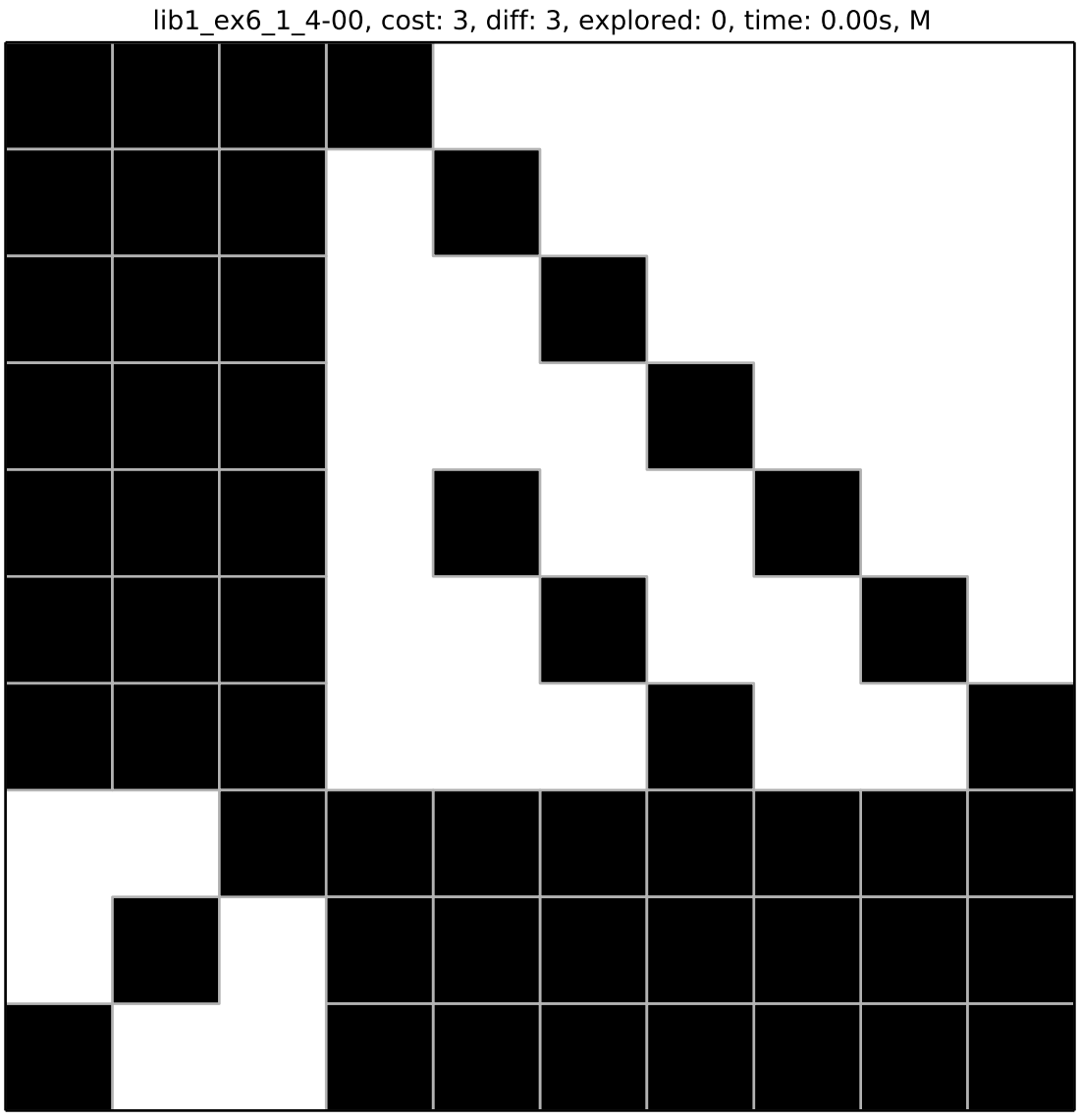
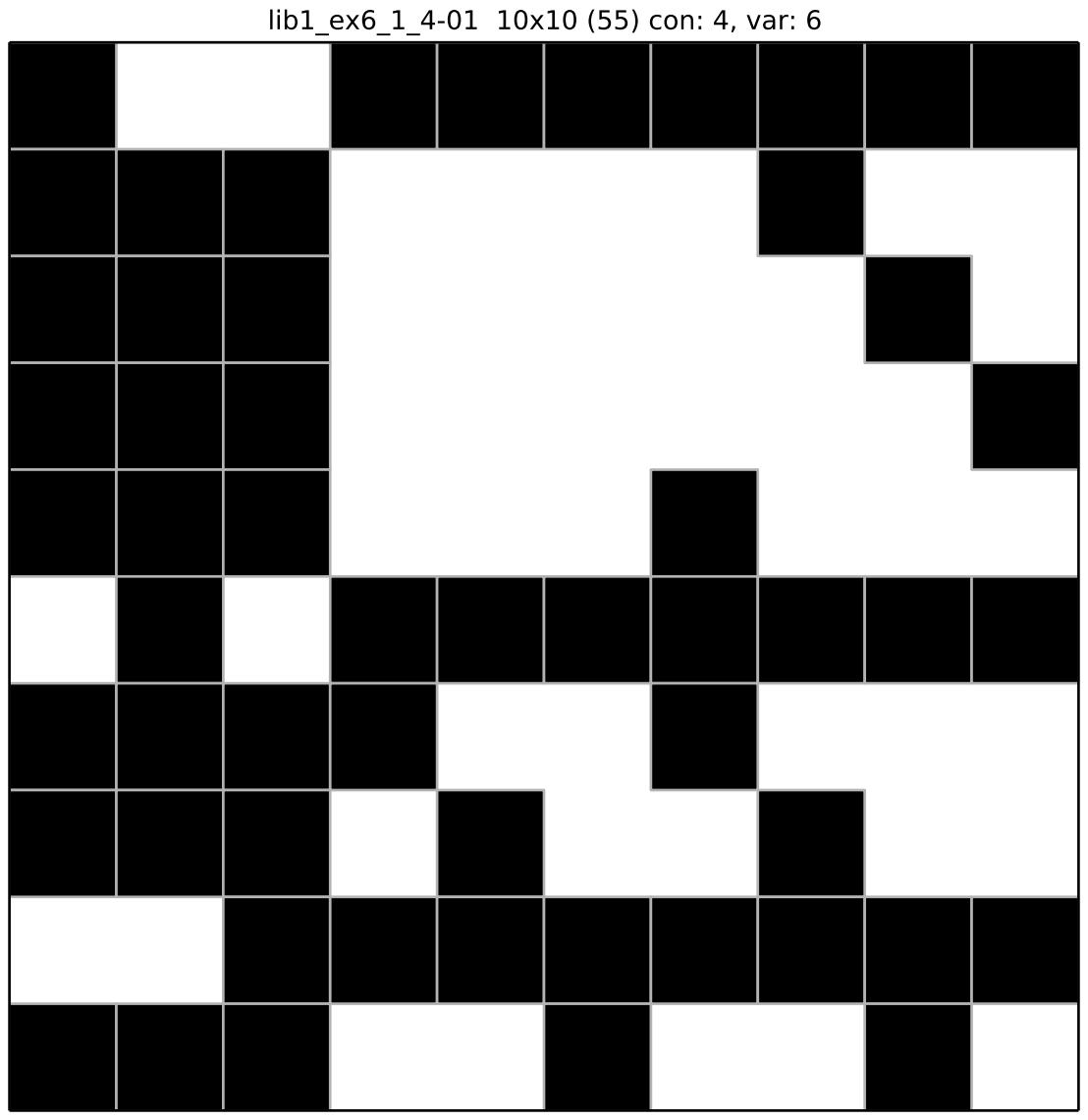
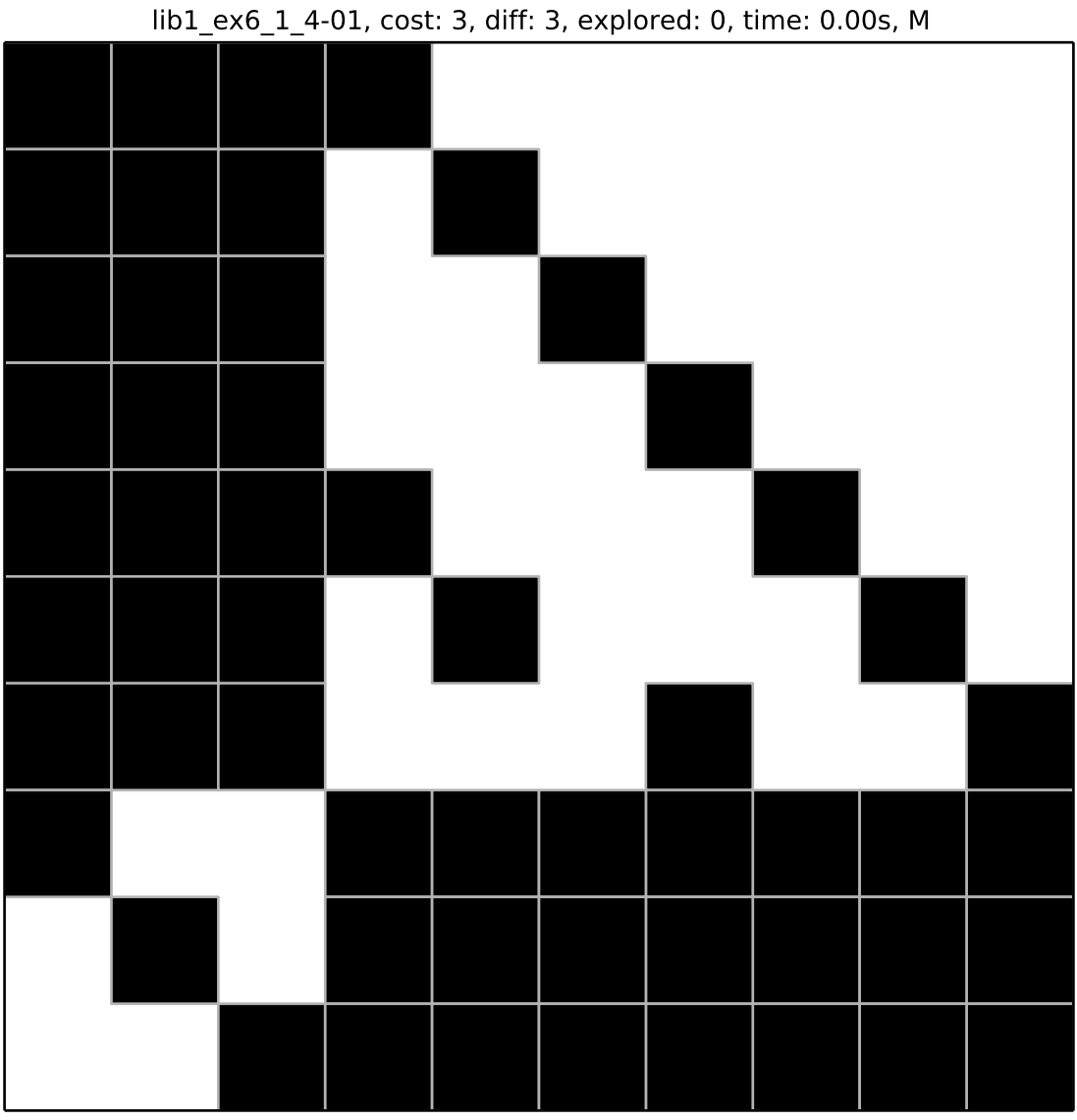
lib1_ex6_1_4-00 10x10 (55) con: 4, var: 6

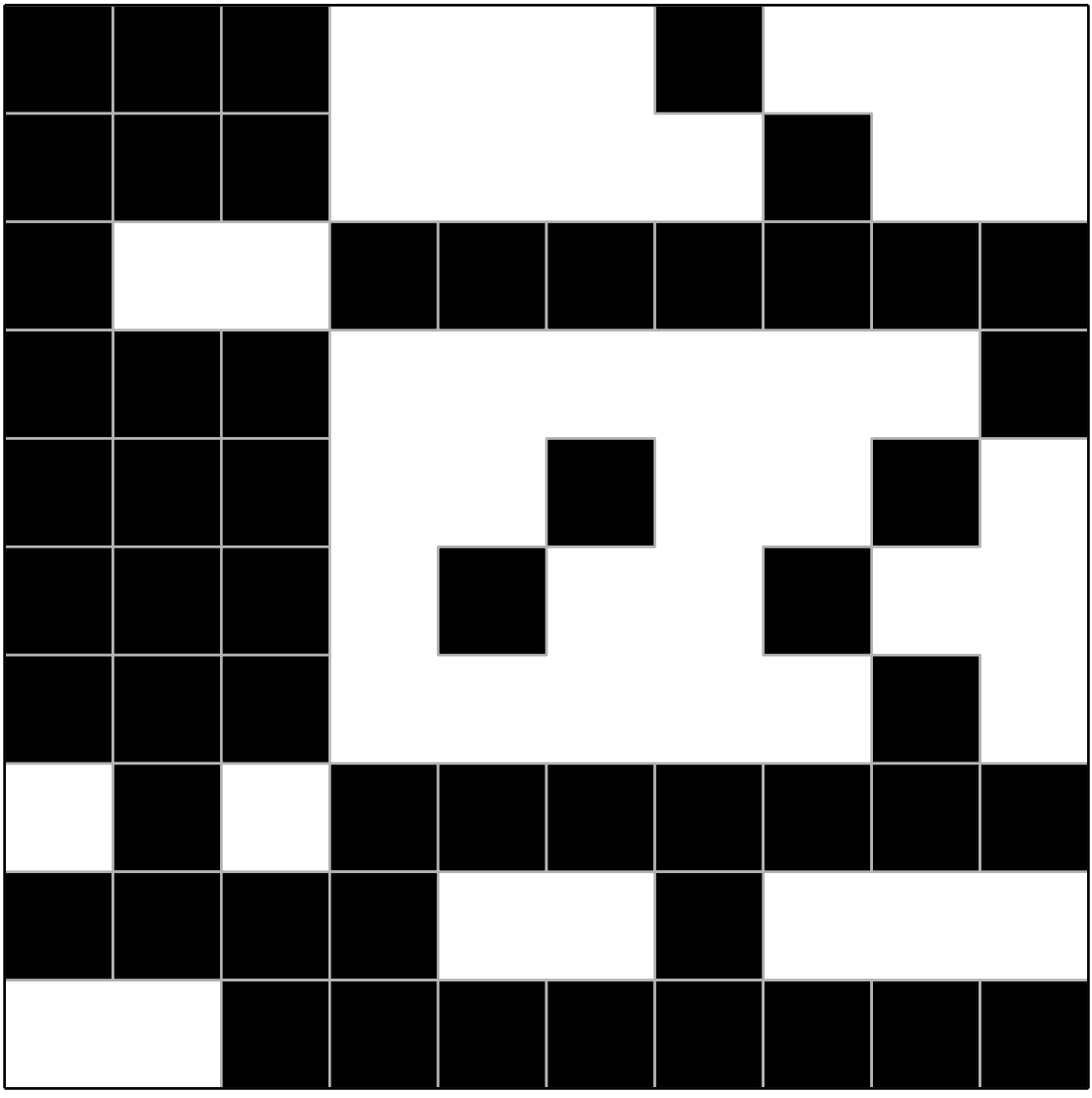



lib1_ex6_1_4-00, cost: 3, diff: 3, explored: 0, time: 0.00s, M


lib1_ex6_1_4-01 10x10 (55) con: 4, var: 6


lib1_ex6_1_4-01, cost: 3, diff: 3, explored: 0, time: 0.00s, M

lib1_ex6_1_4-02 10x10 (55) con: 4, var: 6



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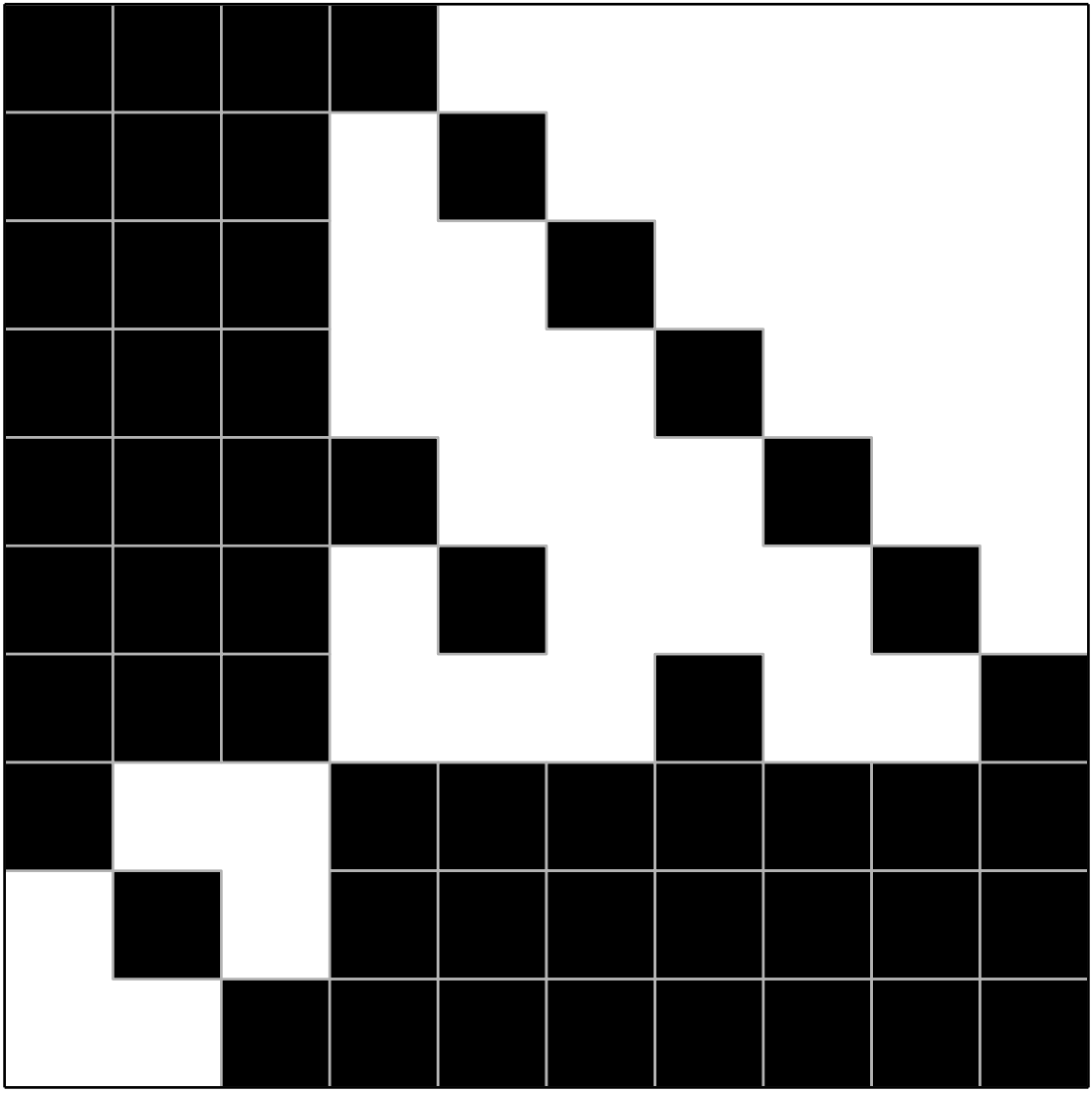
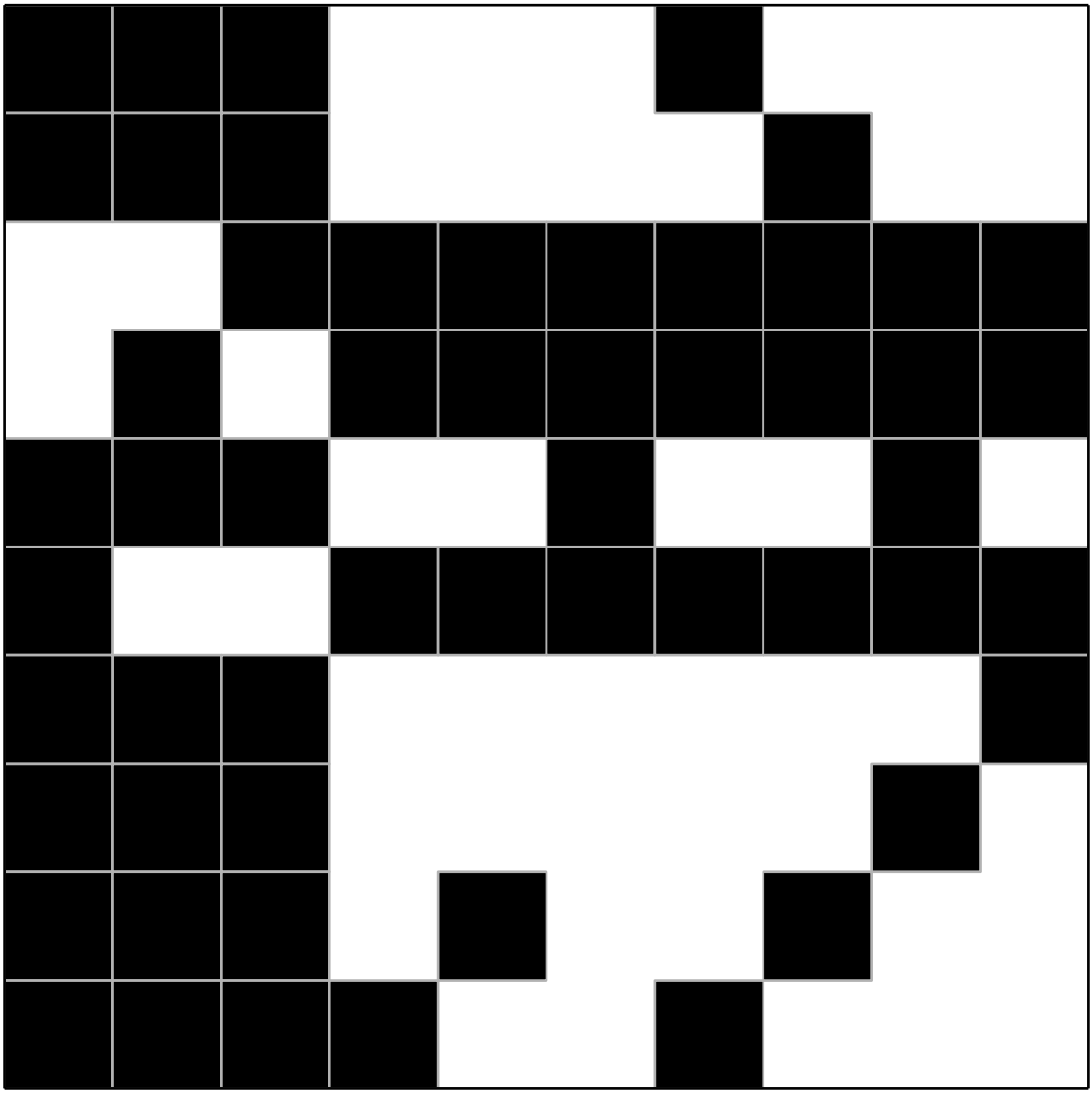
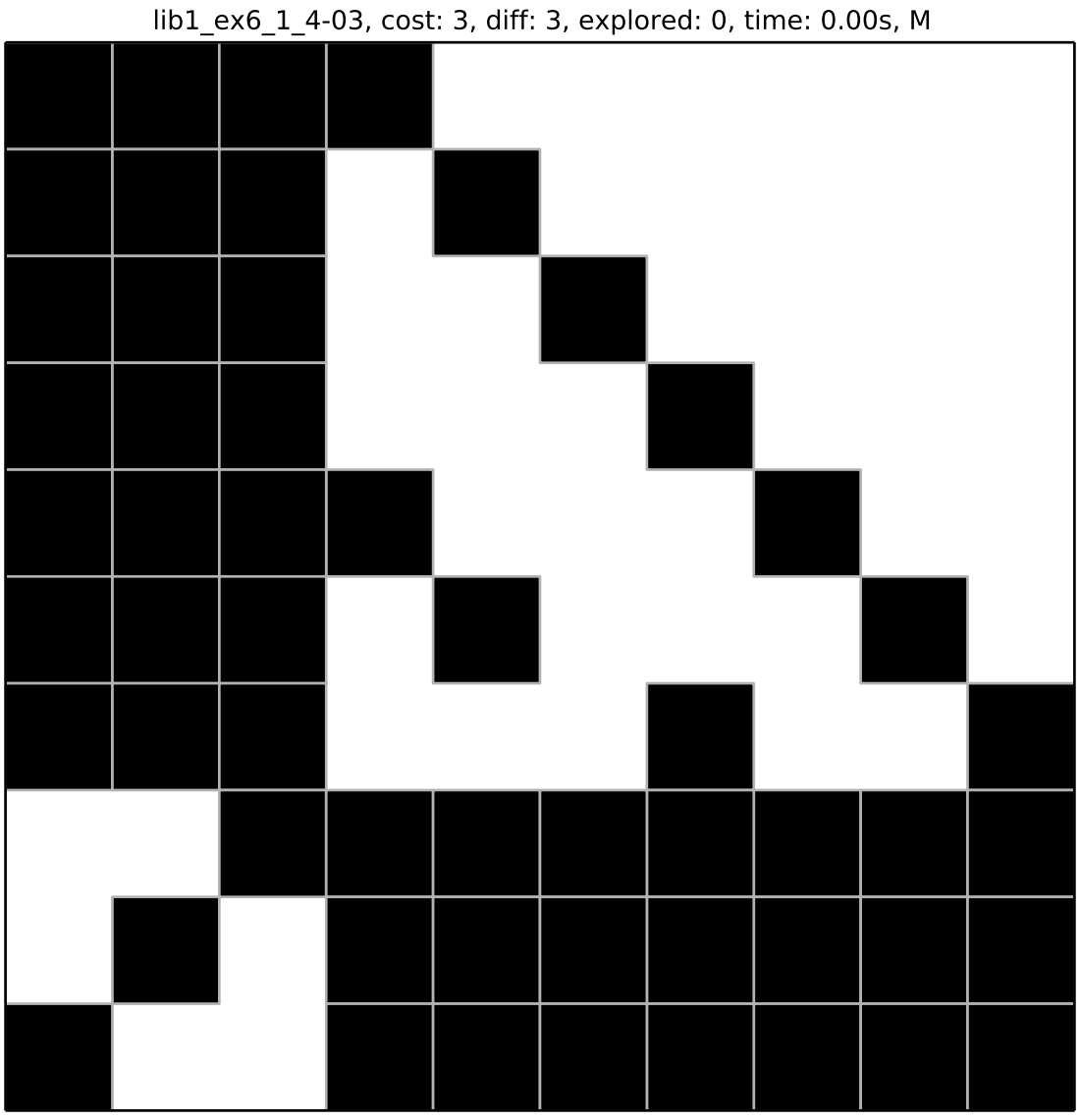
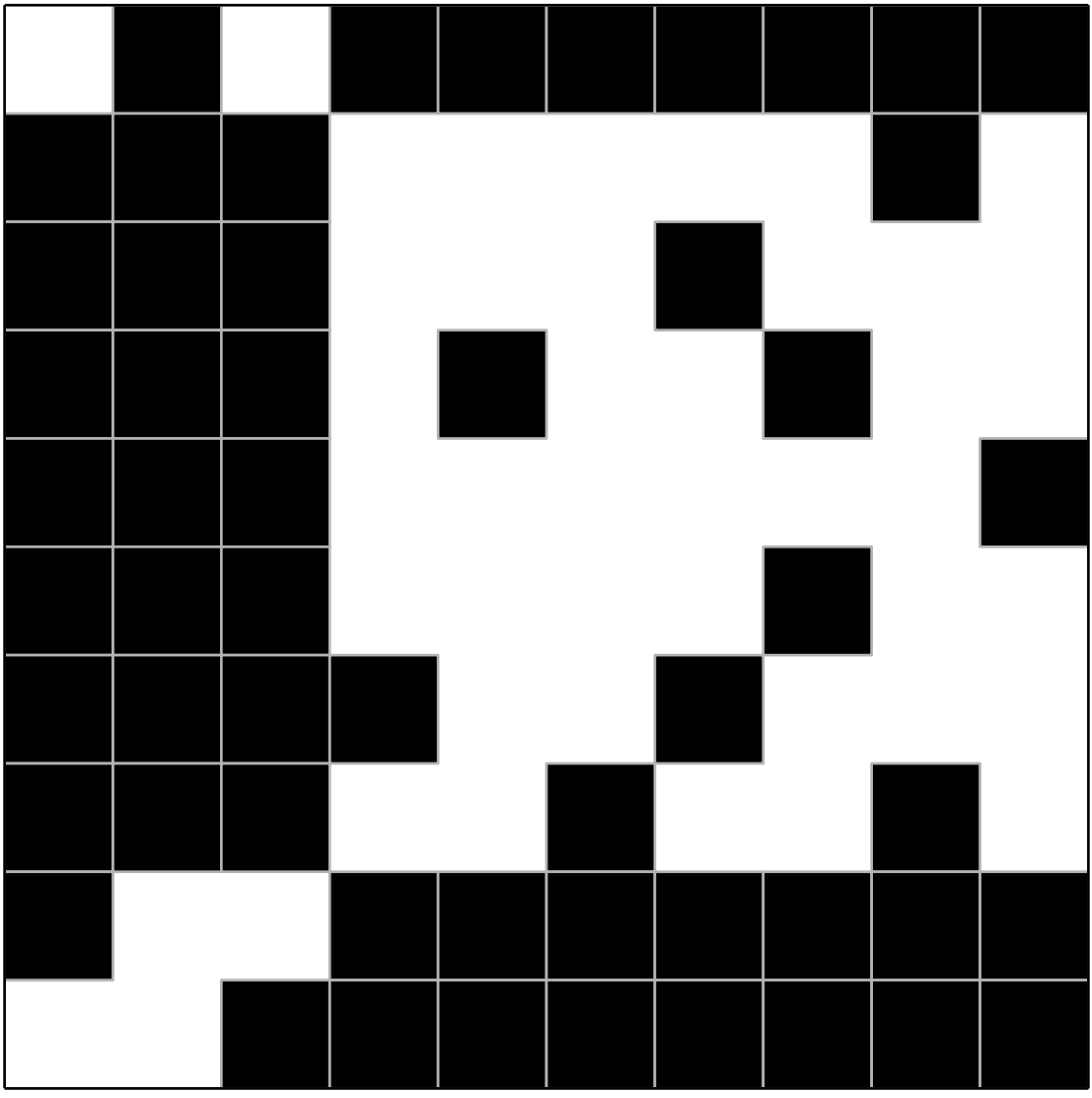


lib1_ex6_1_4-03 10x10 (55) con: 4, var: 6




lib1_ex6_1_4-03, cost: 3, diff: 3, explored: 0, time: 0.00s, M

lib1_ex6_1_4-04 10x10 (55) con: 4, var: 6



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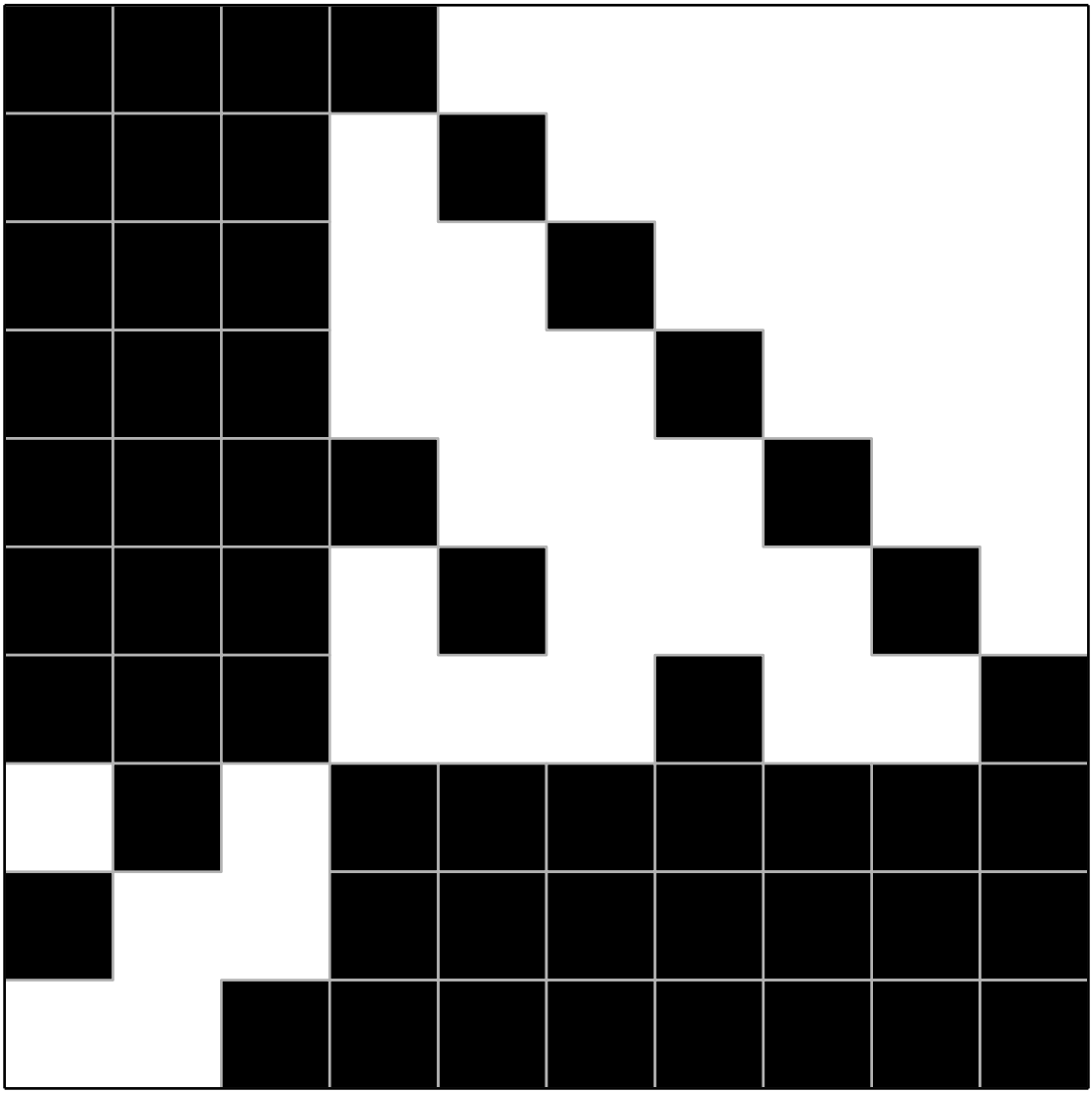

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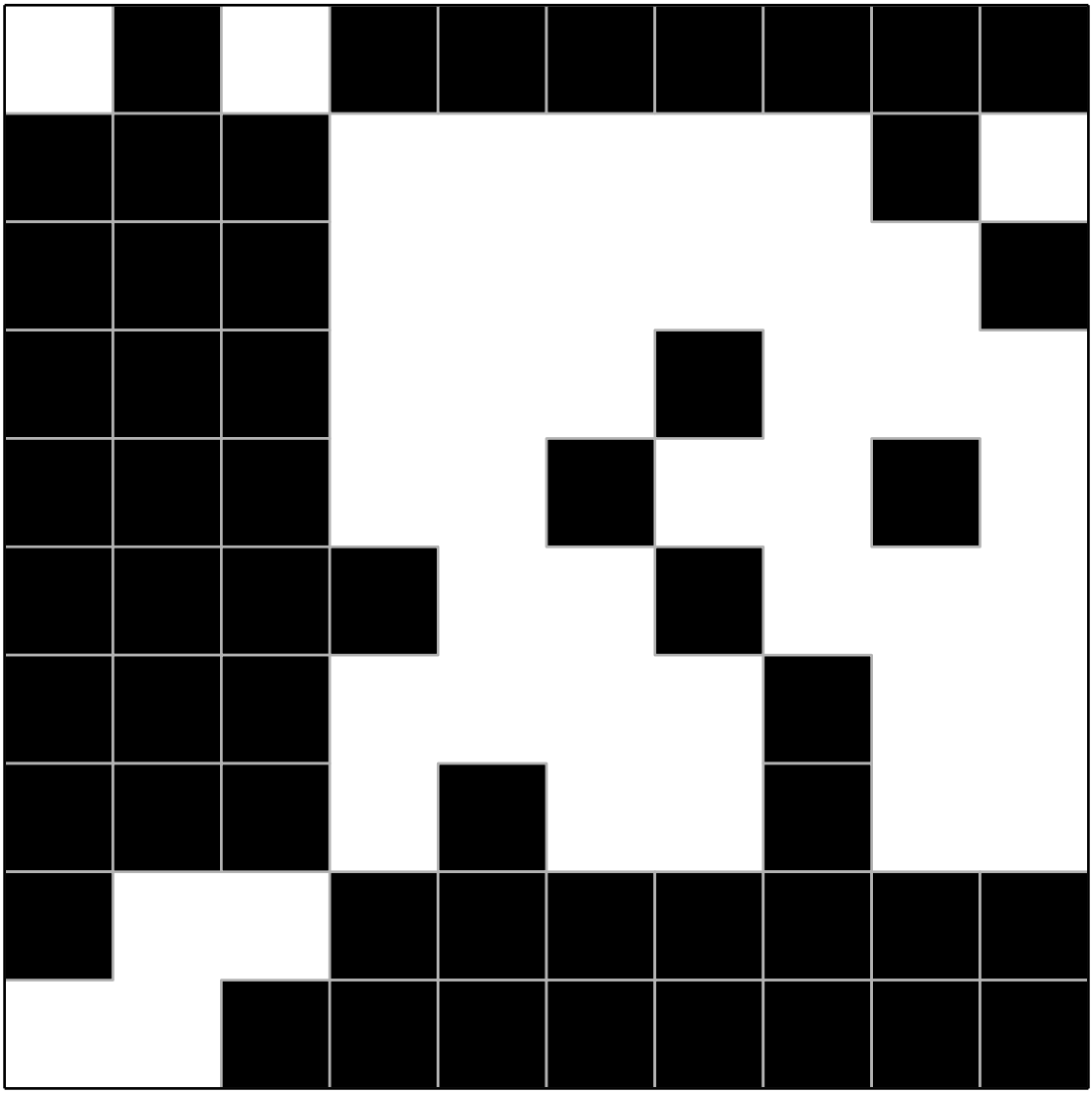

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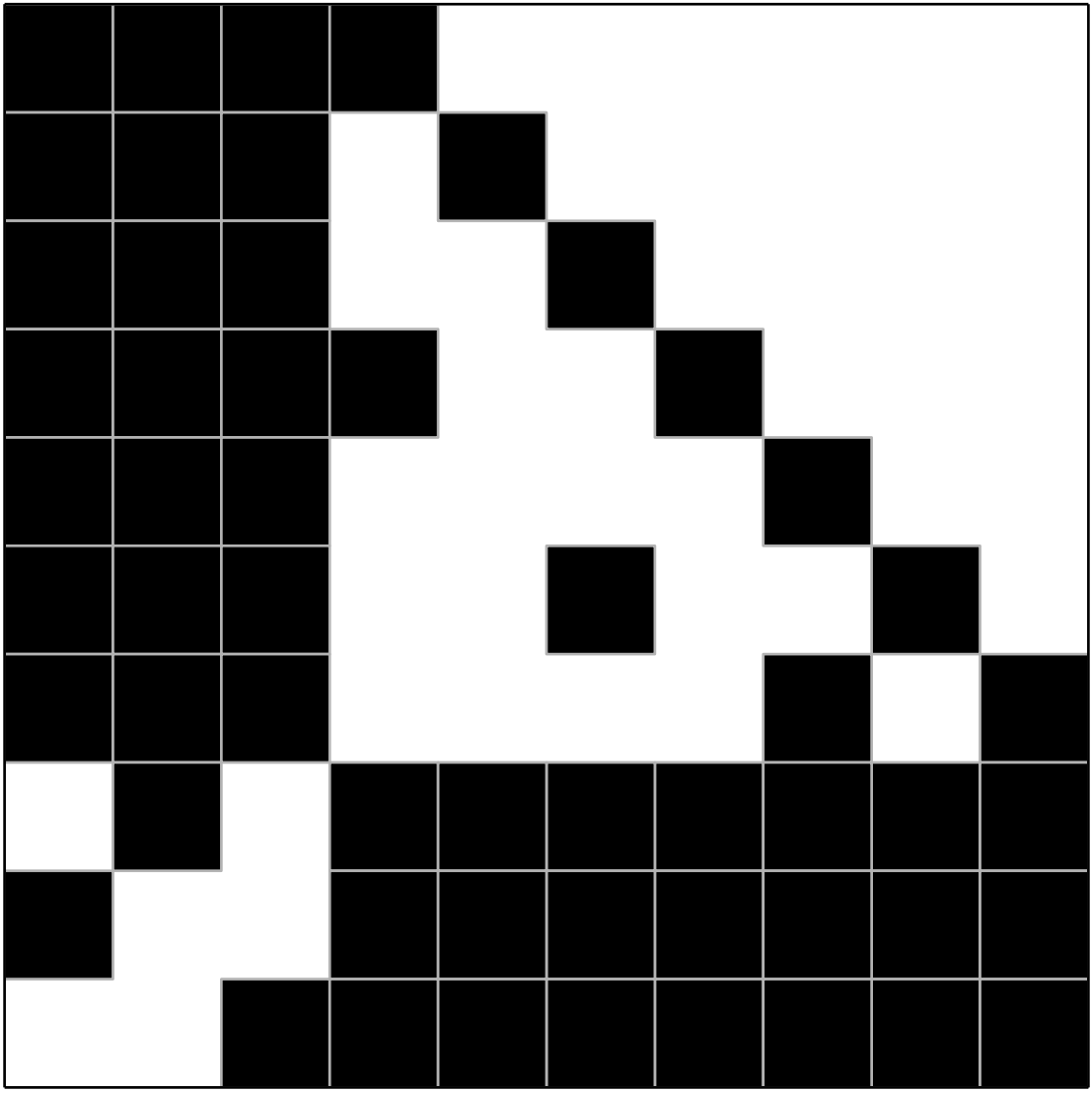
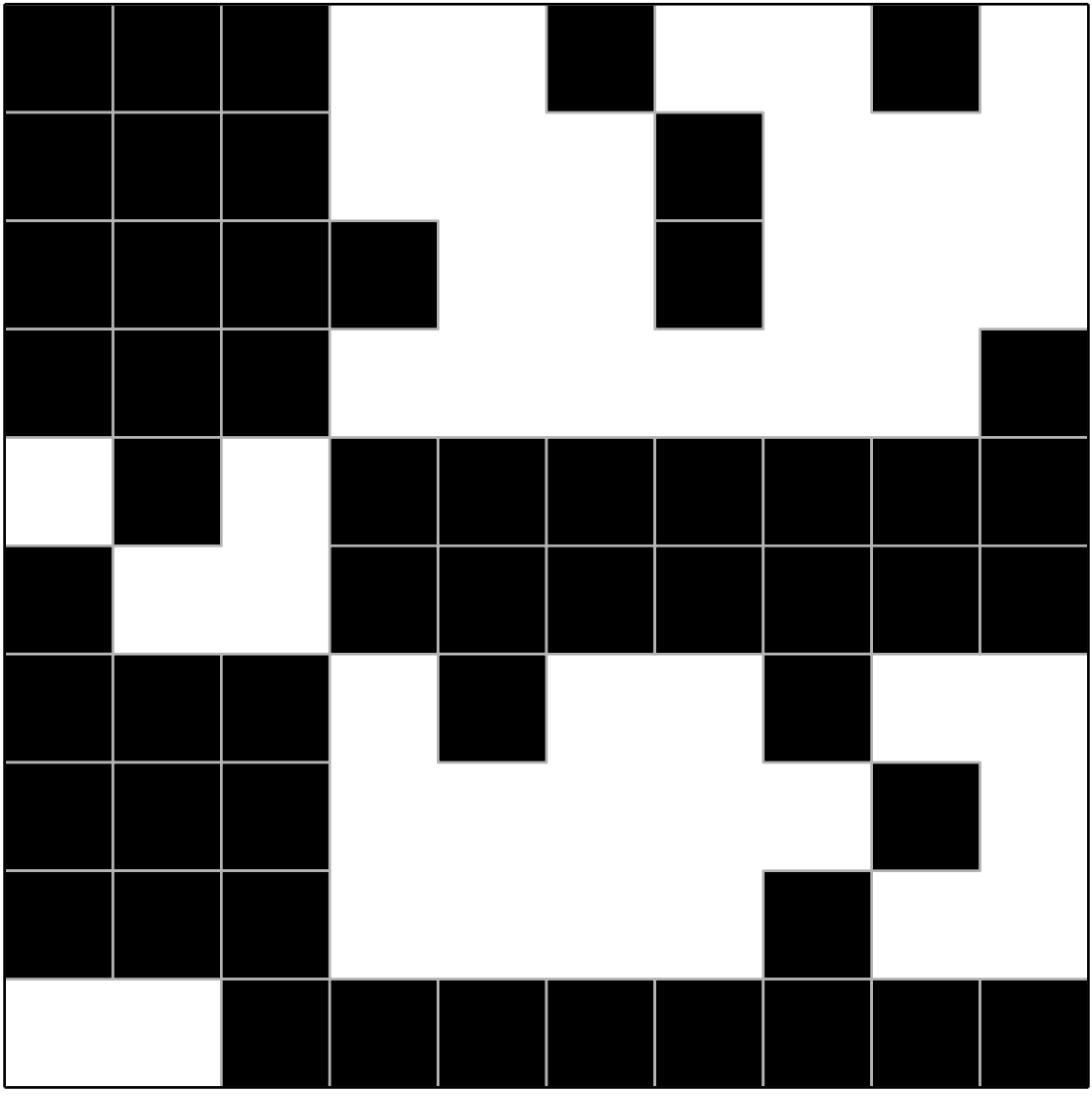


lib1_ex6_1_4-06 10x10 (55) con: 4, var: 6



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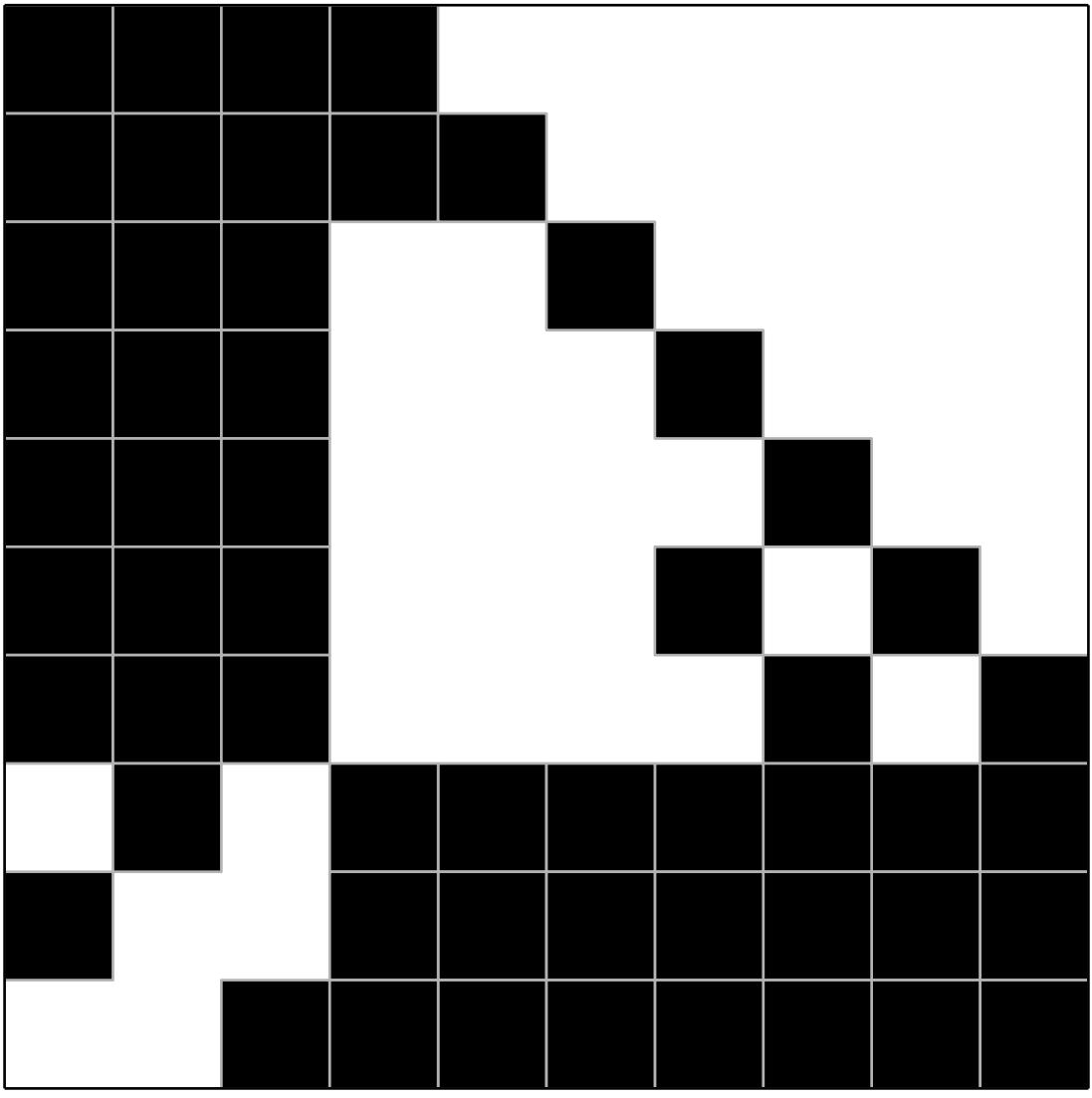
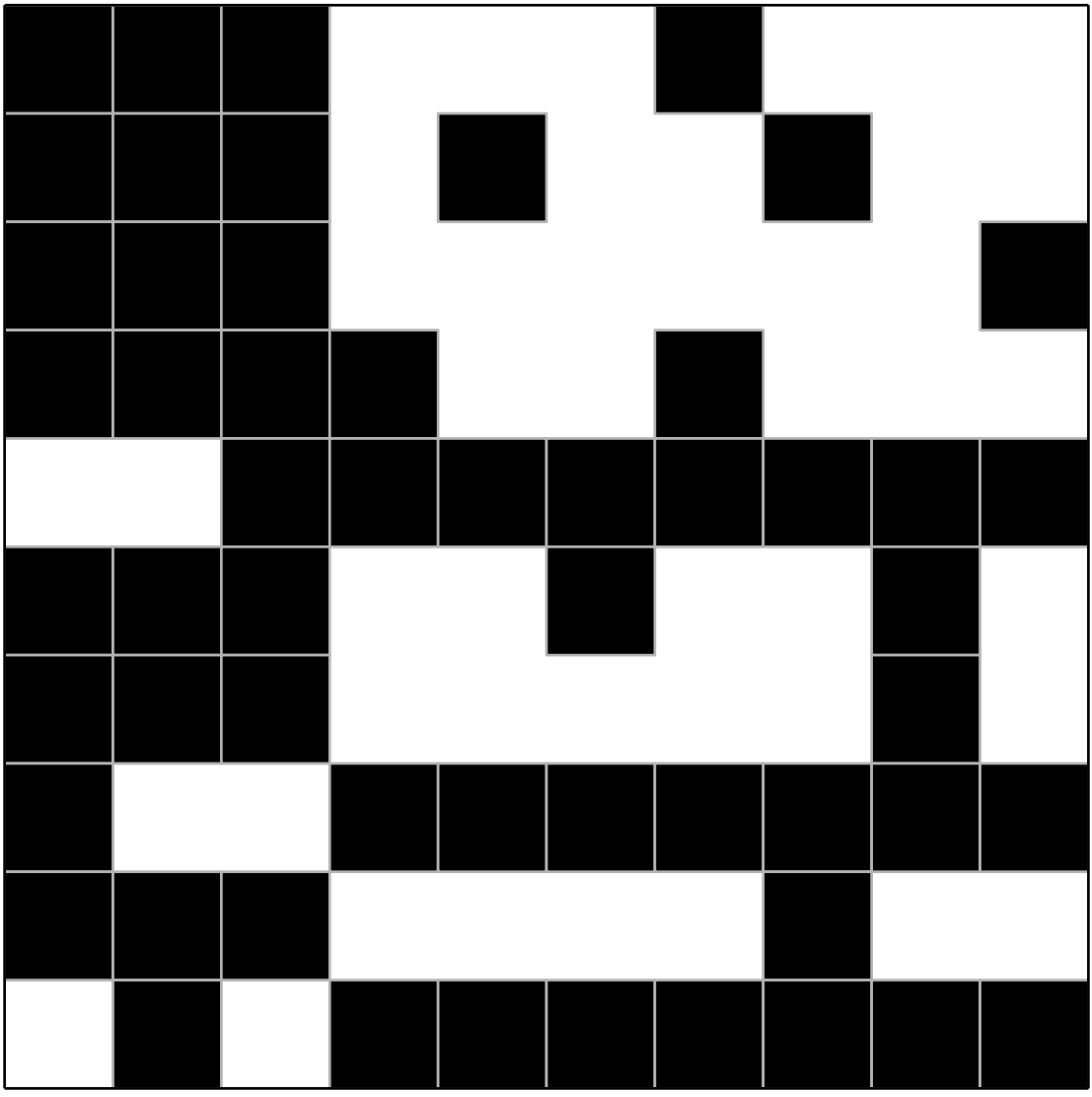


lib1_ex6_1_4-07 10x10 (55) con: 4, var: 6



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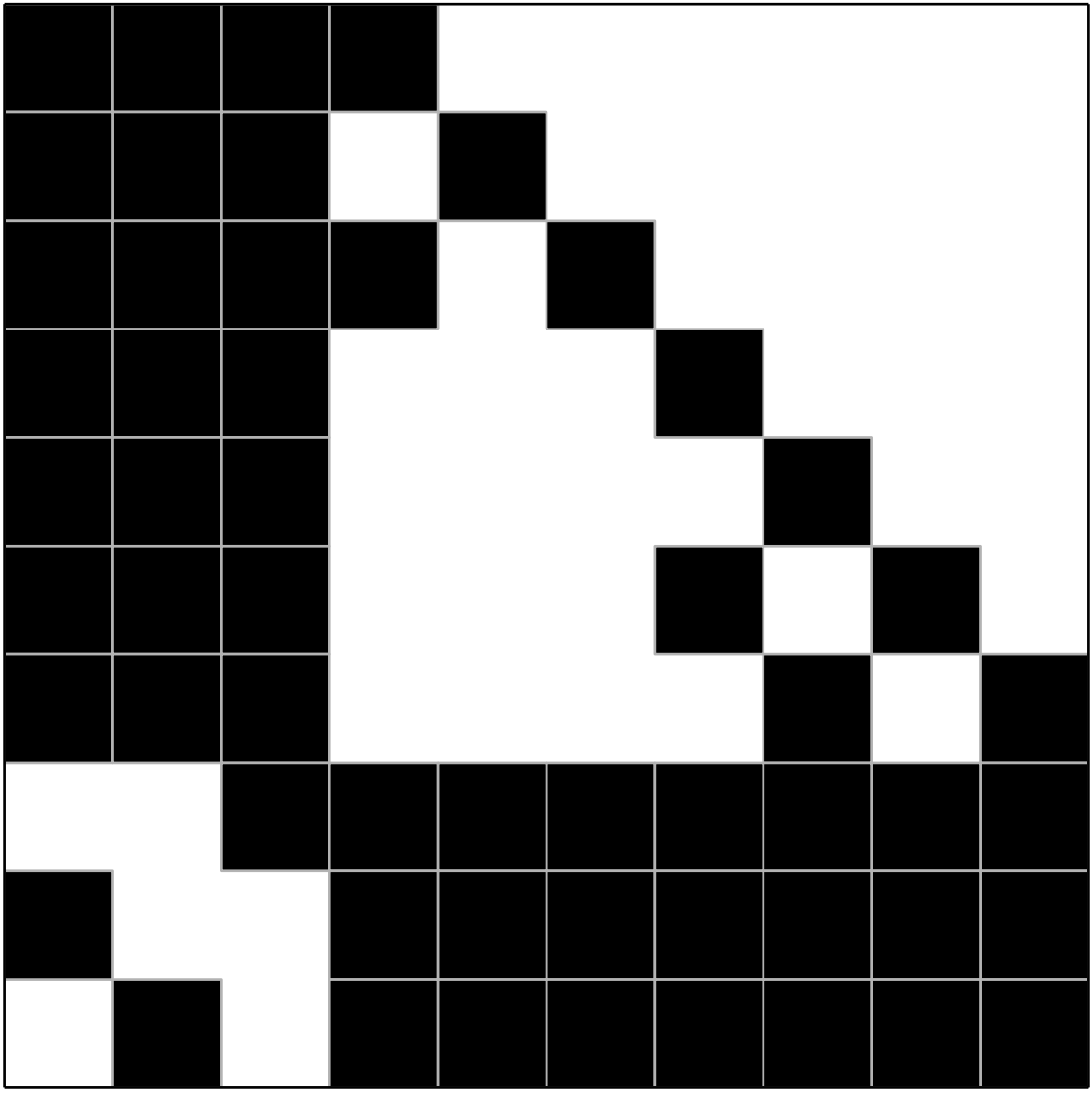
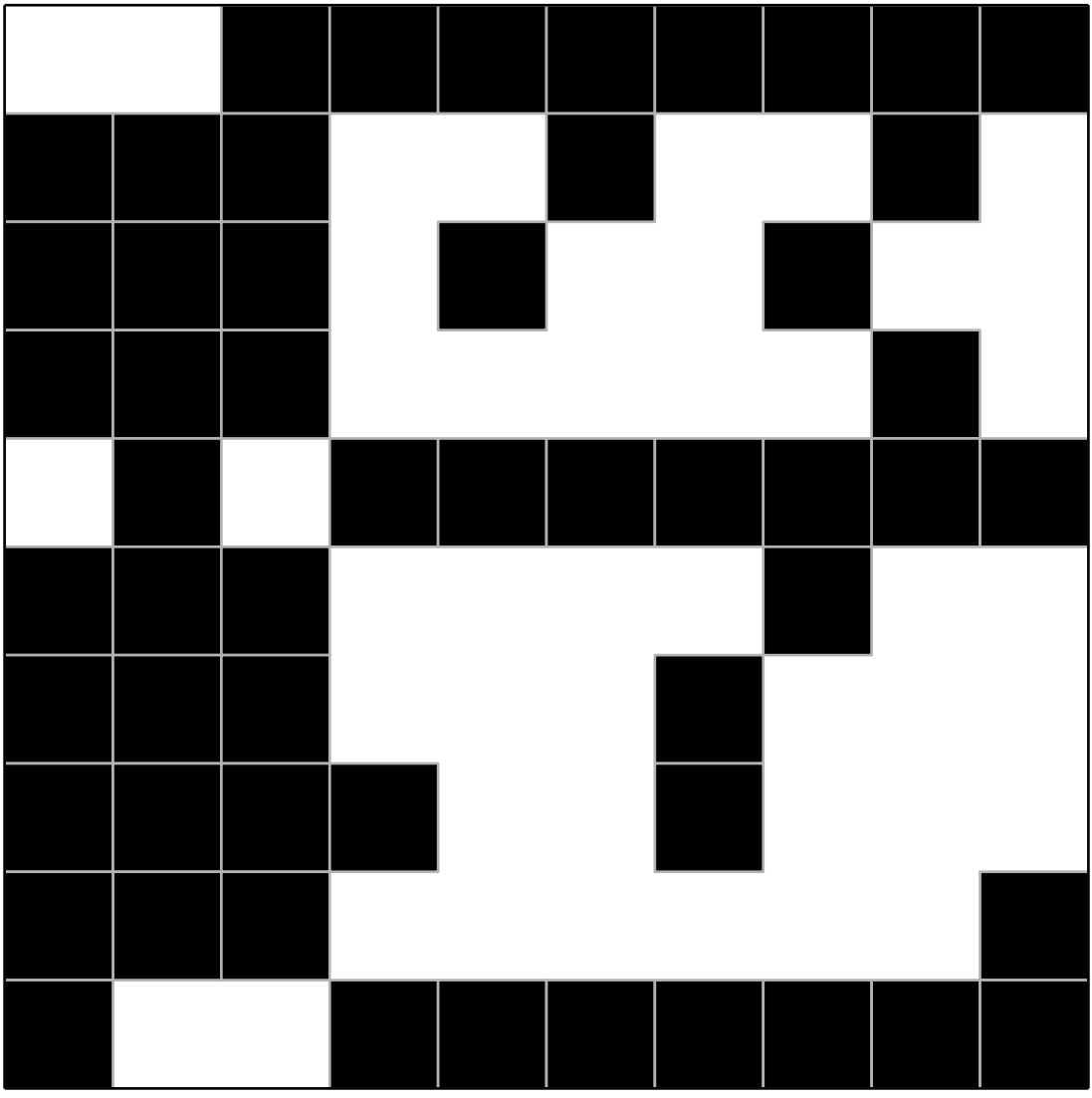
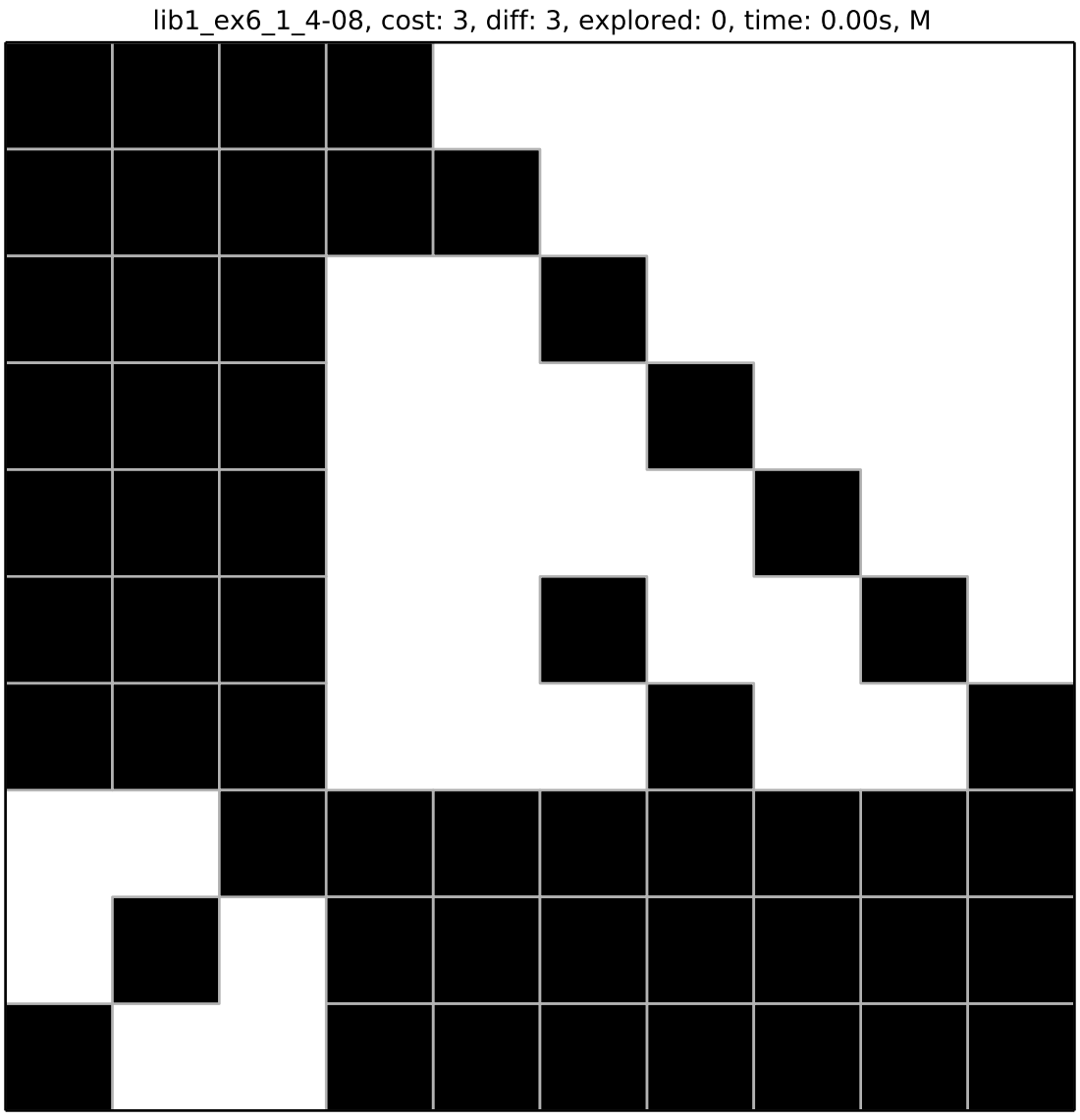


lib1_ex6_1_4-08 10x10 (55) con: 4, var: 6

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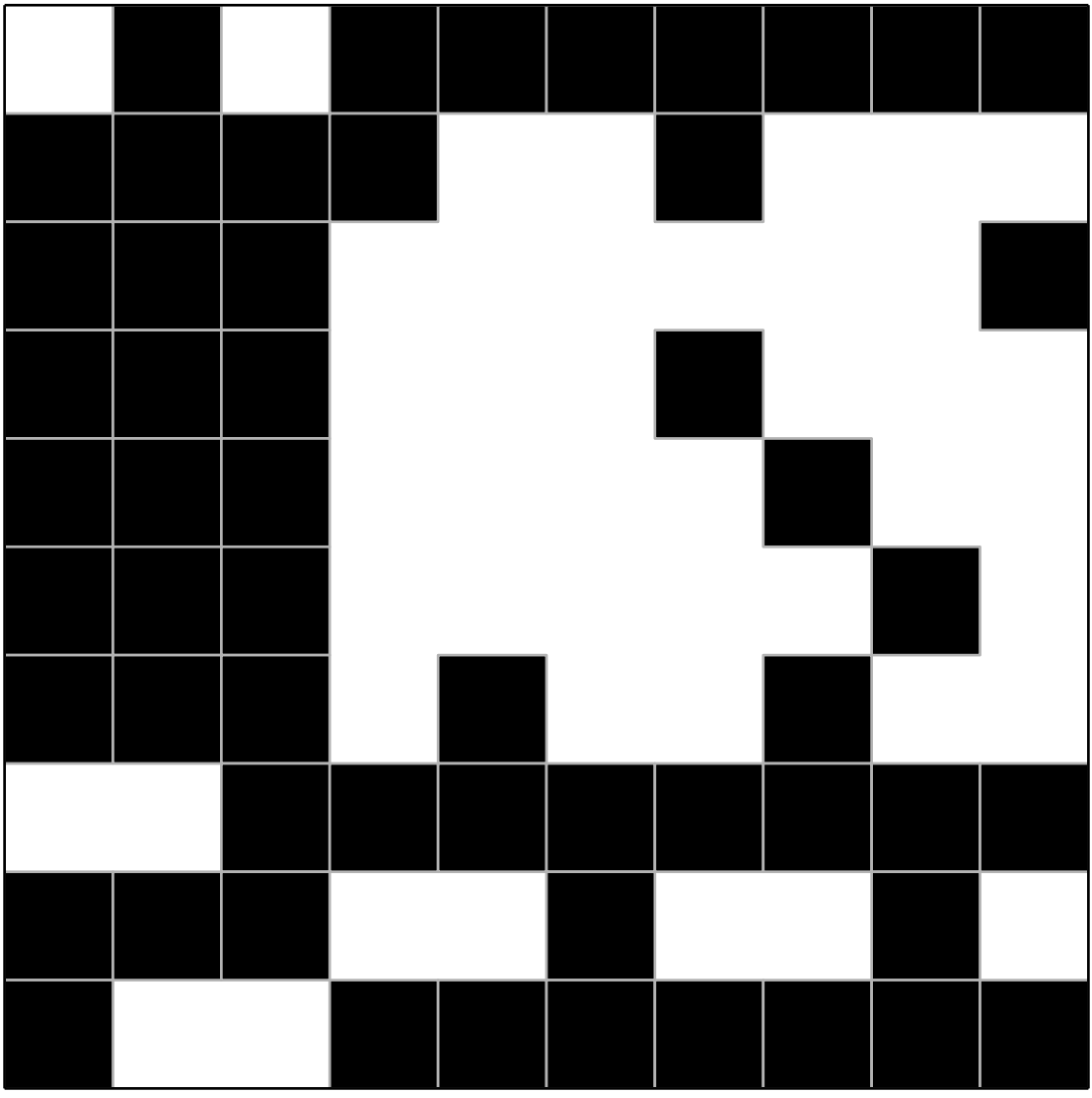
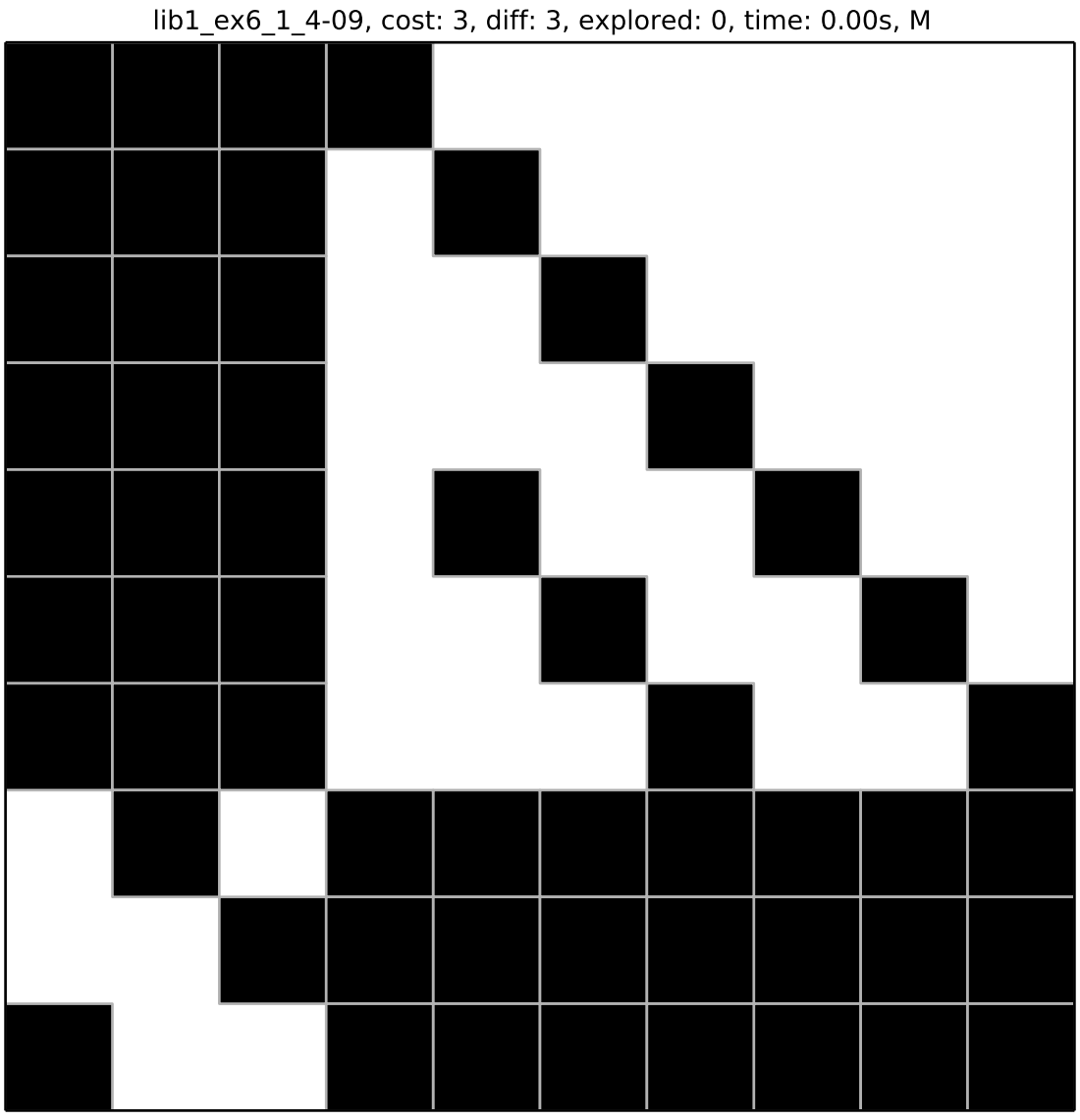
lib1_ex6_1_4-09 10x10 (55) con: 4, var: 6

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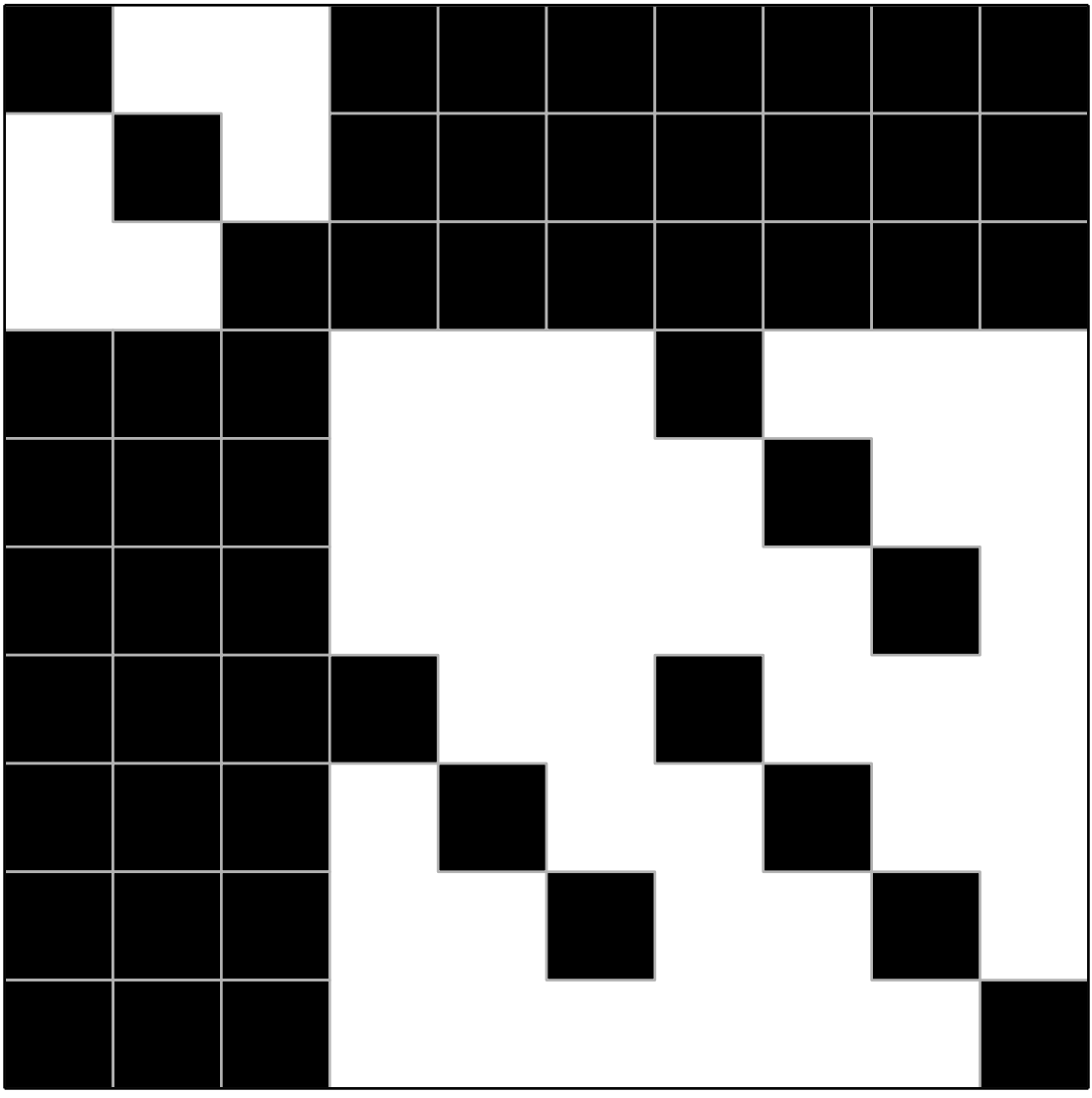
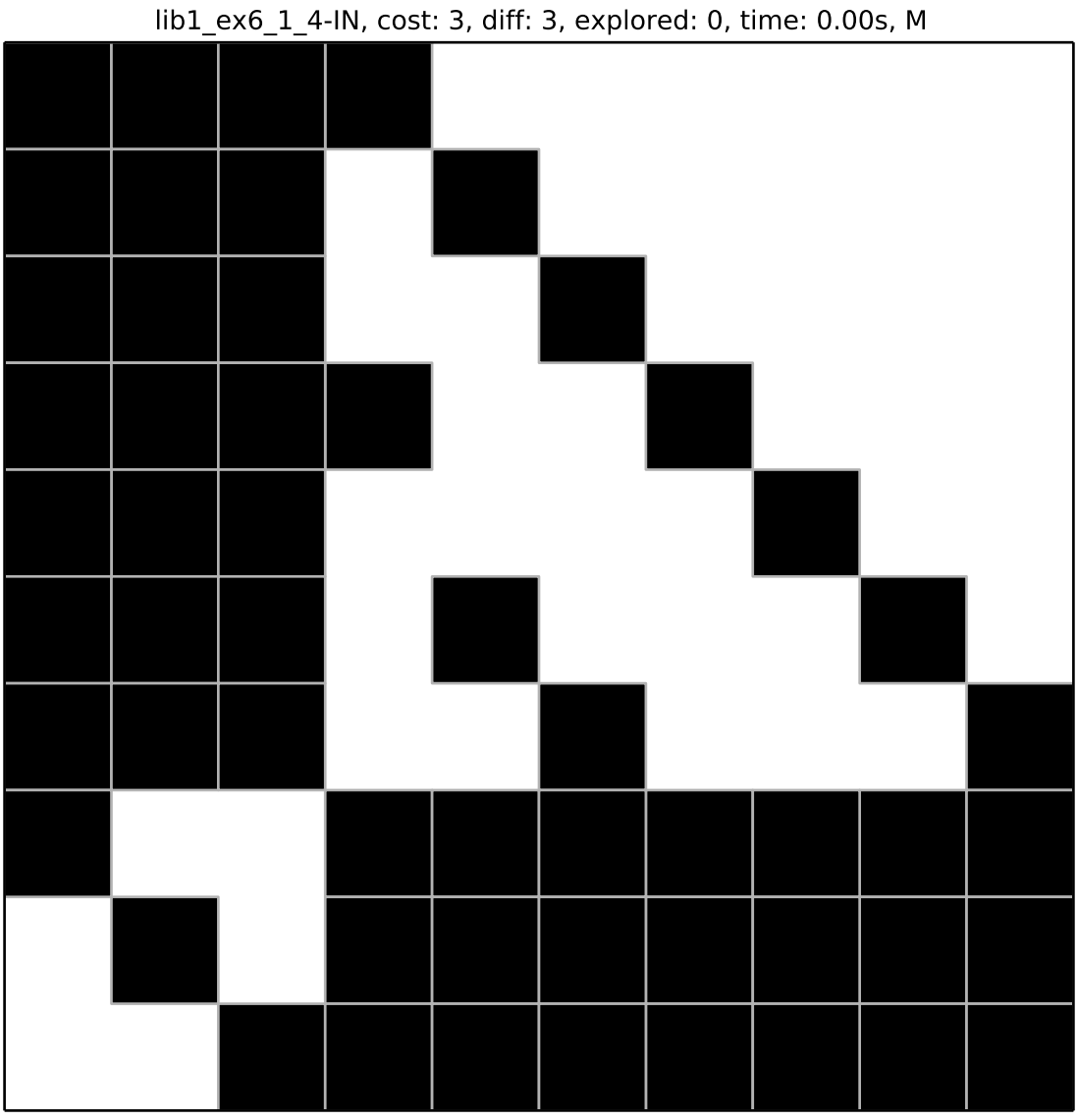
lib1_ex6_1_4-IN 10x10 (55) con: 4, var: 6

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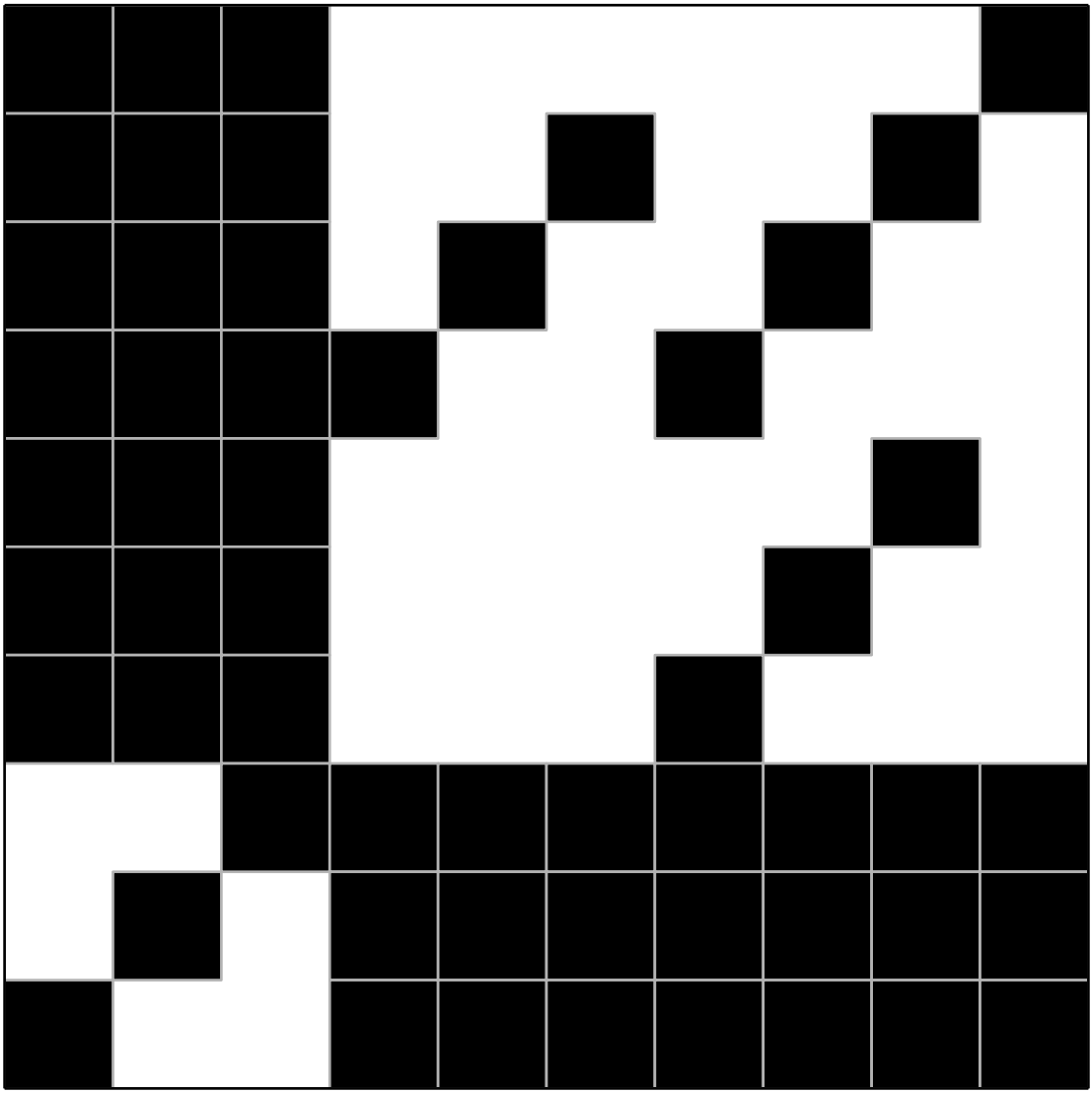
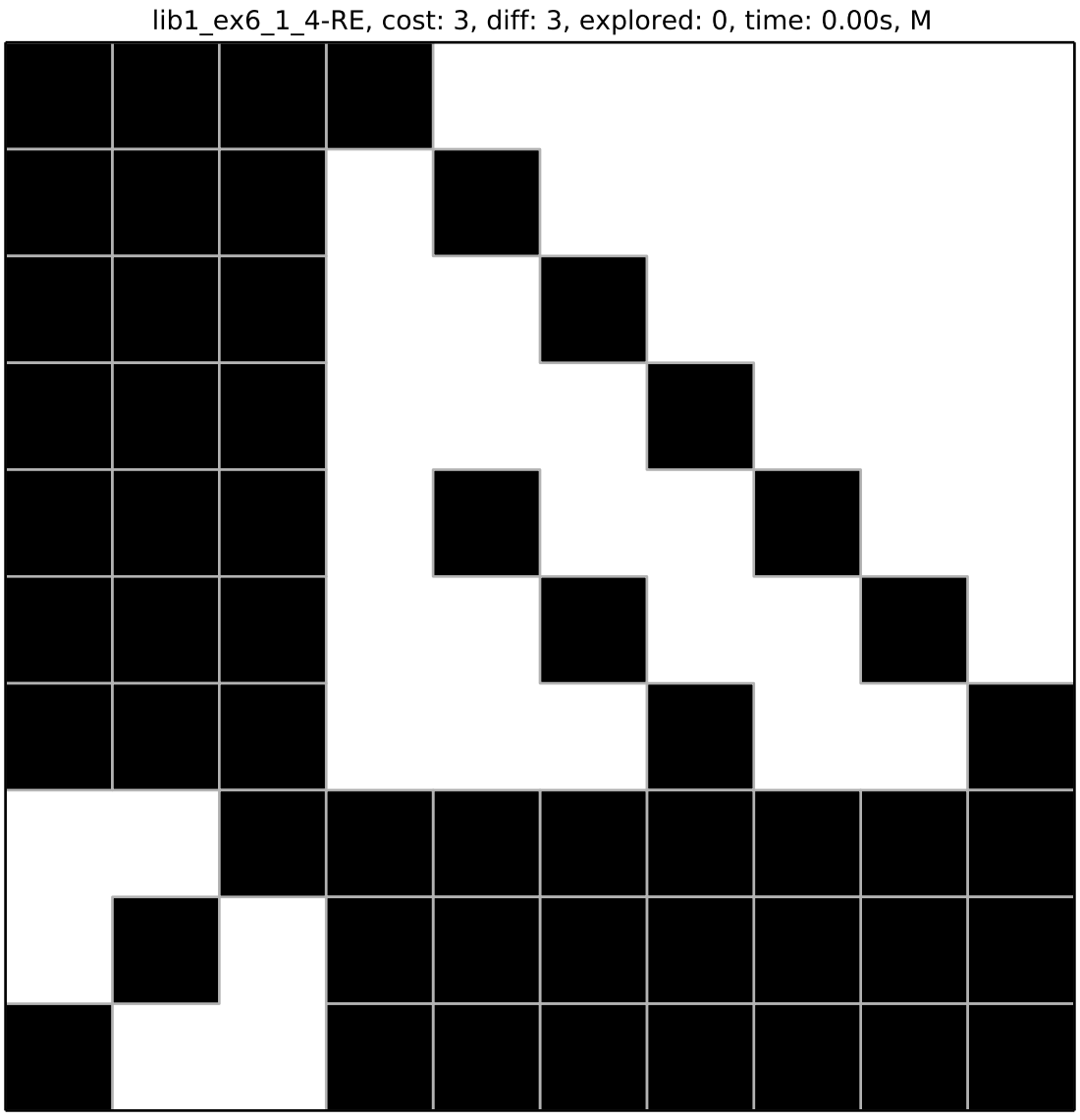
lib1_ex6_1_4-RE 10x10 (55) con: 4, var: 6

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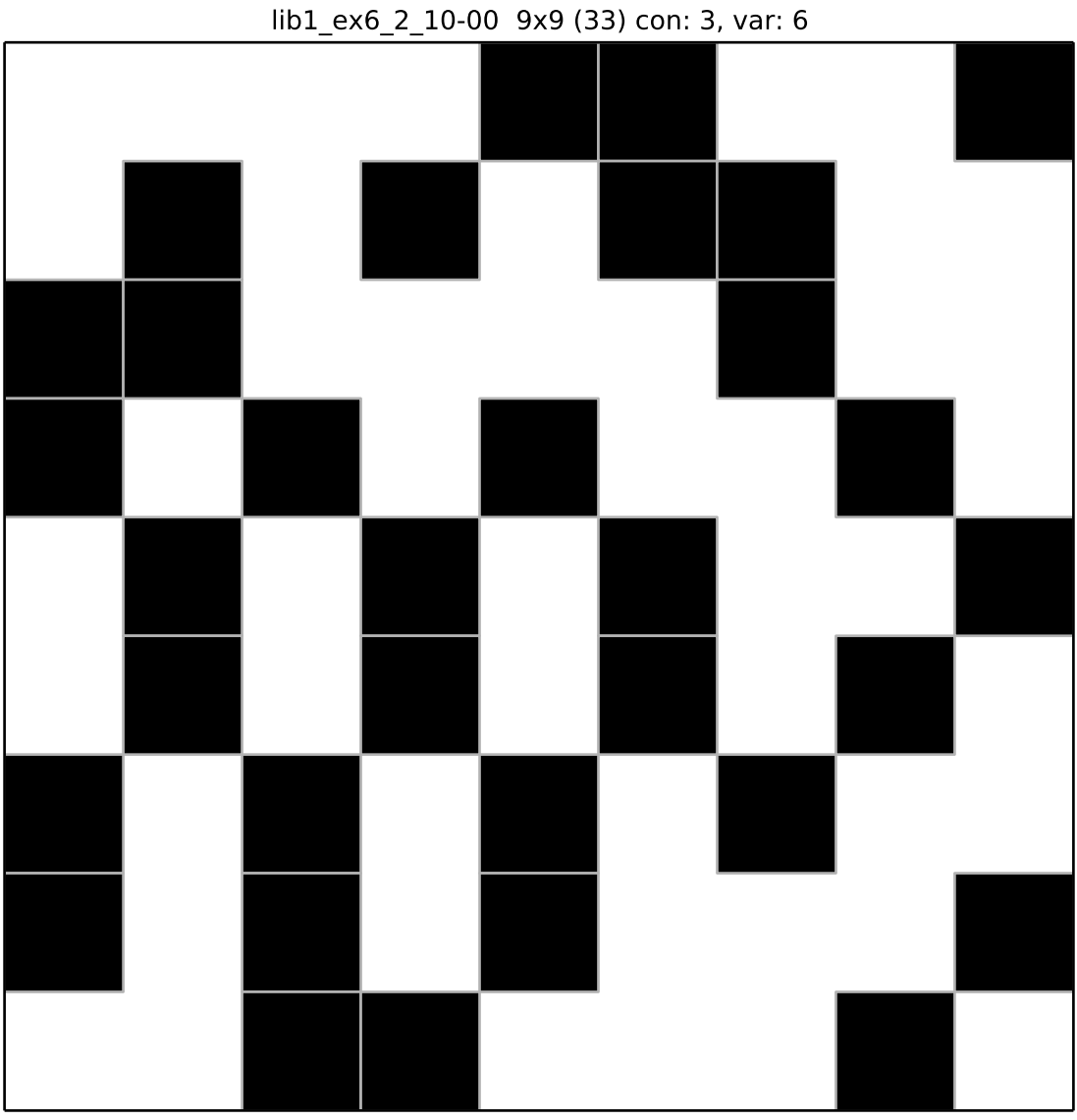
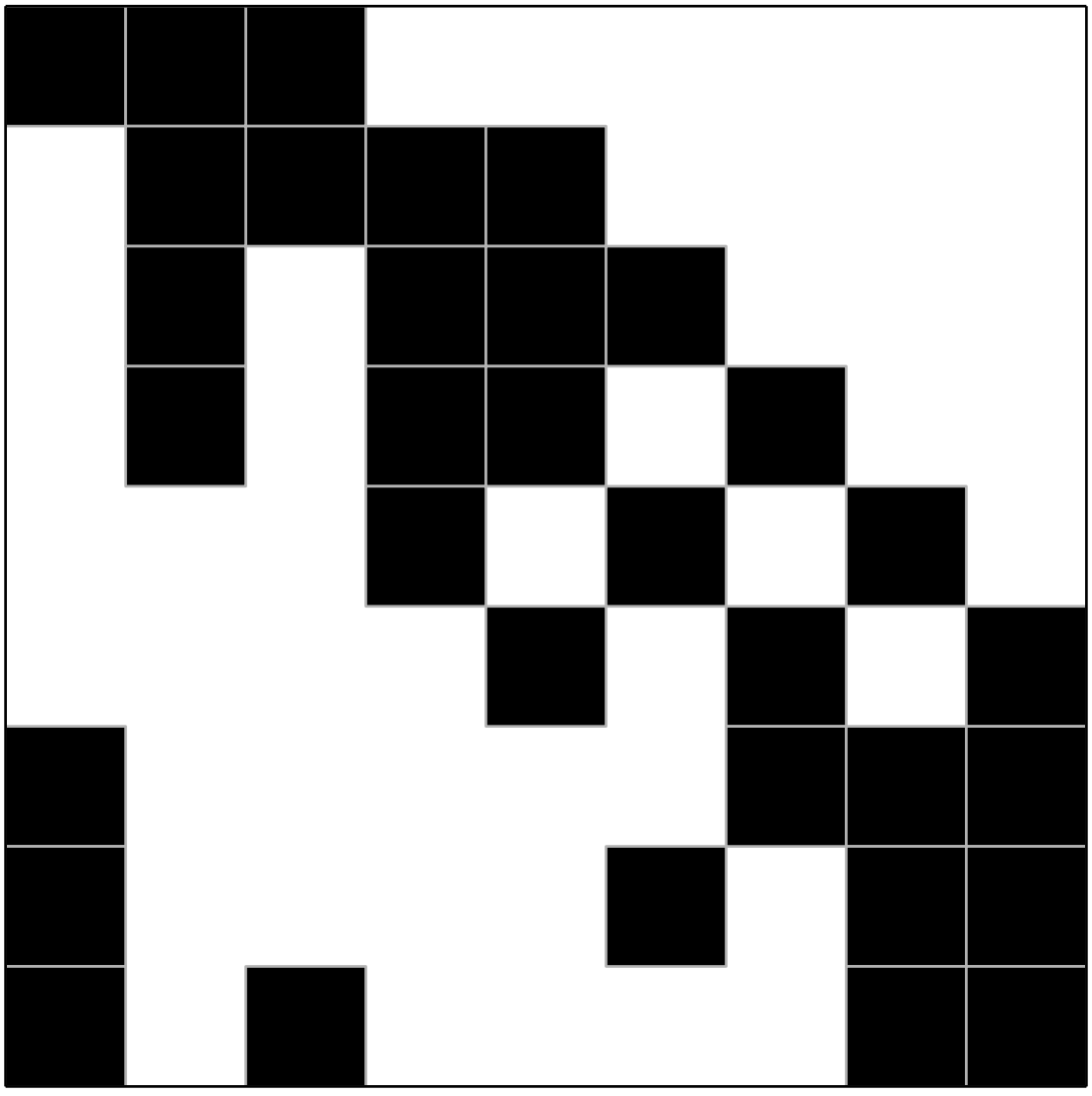

lib1_ex6_2_10-00 9x9 (33) con: 3, var: 6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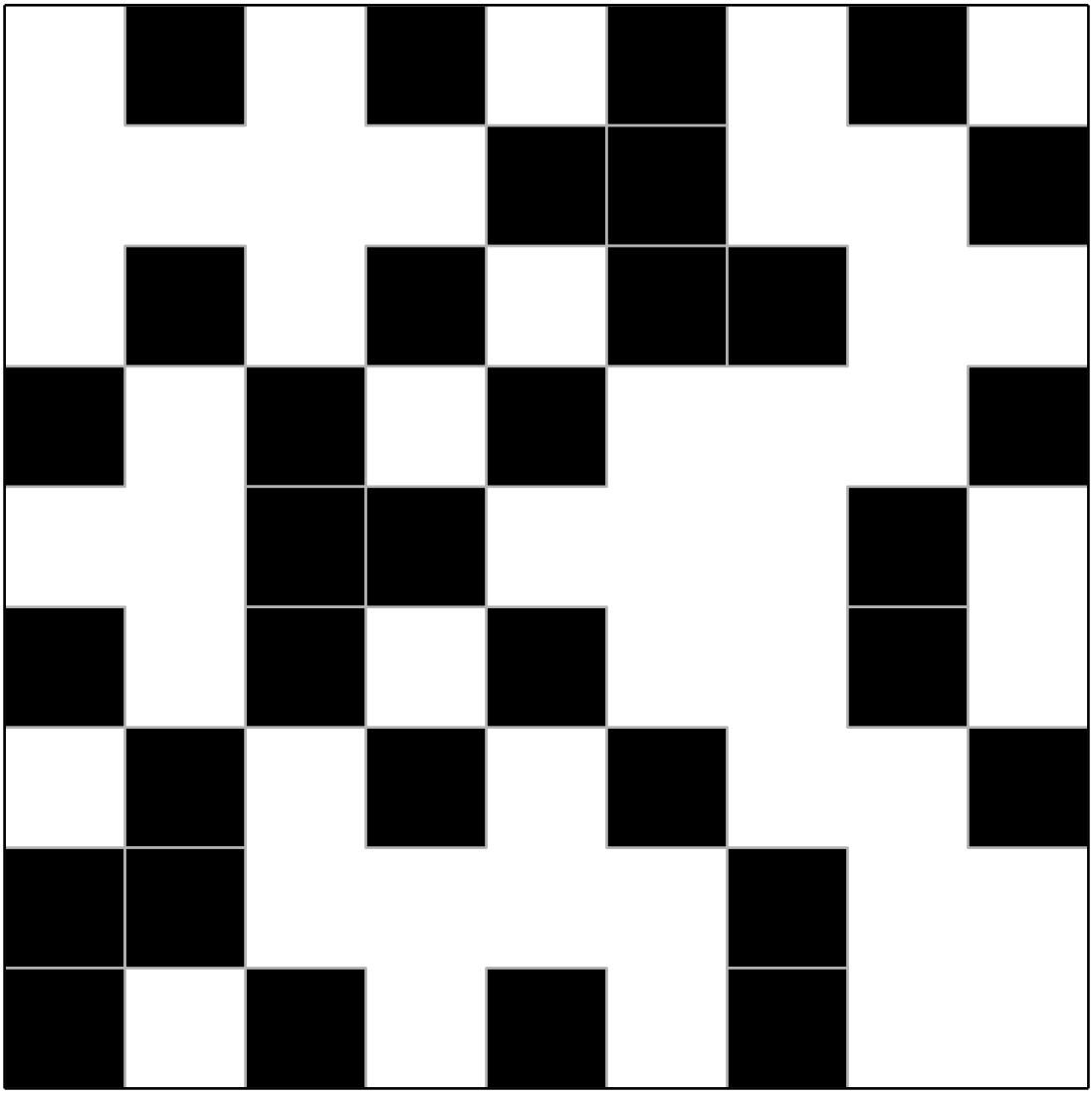
lib1_ex6_2_10-01 9x9 (33) con: 3, var: 6



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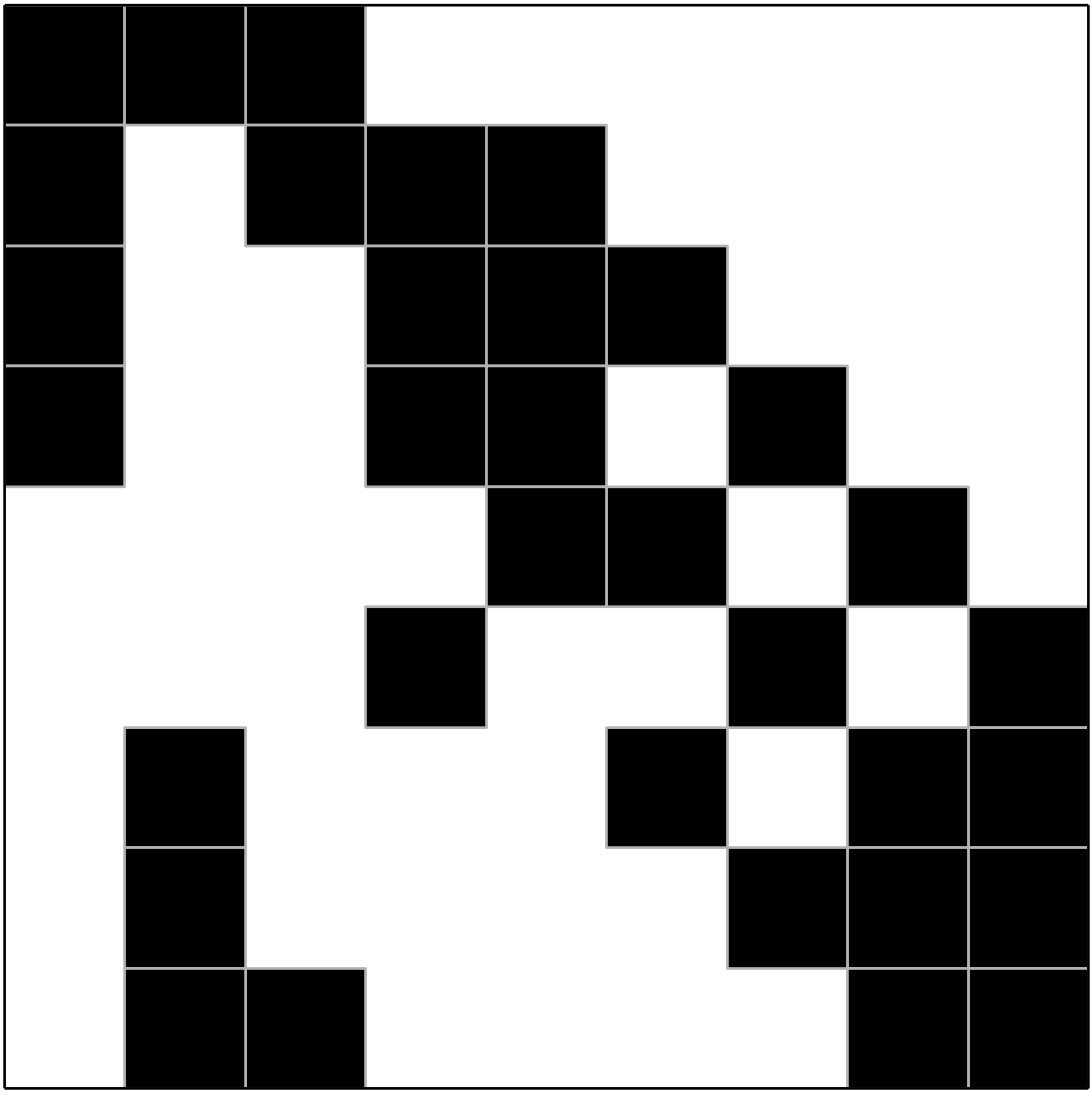
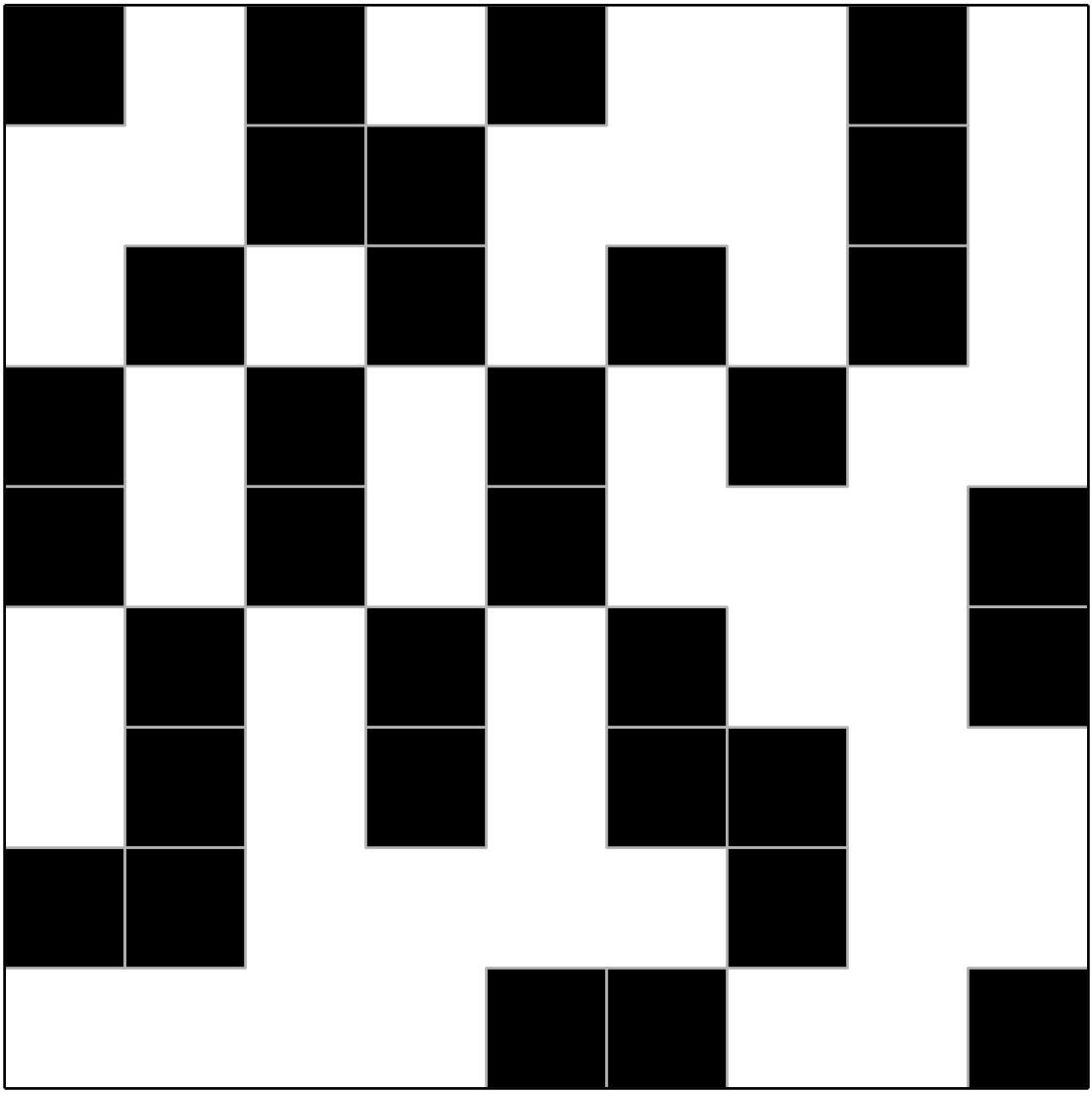
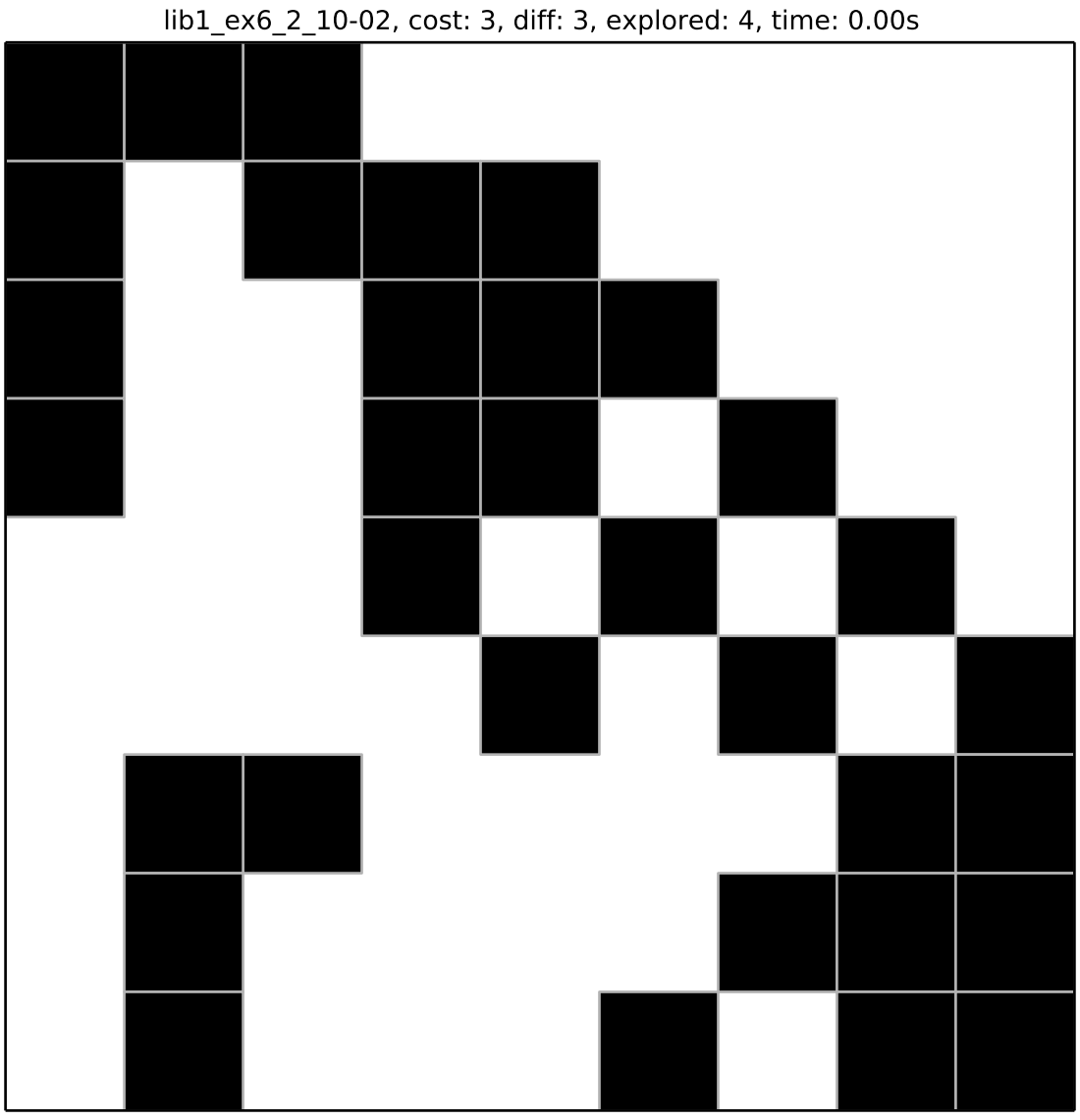


lib1_ex6_2_10-02 9x9 (33) con: 3, var: 6

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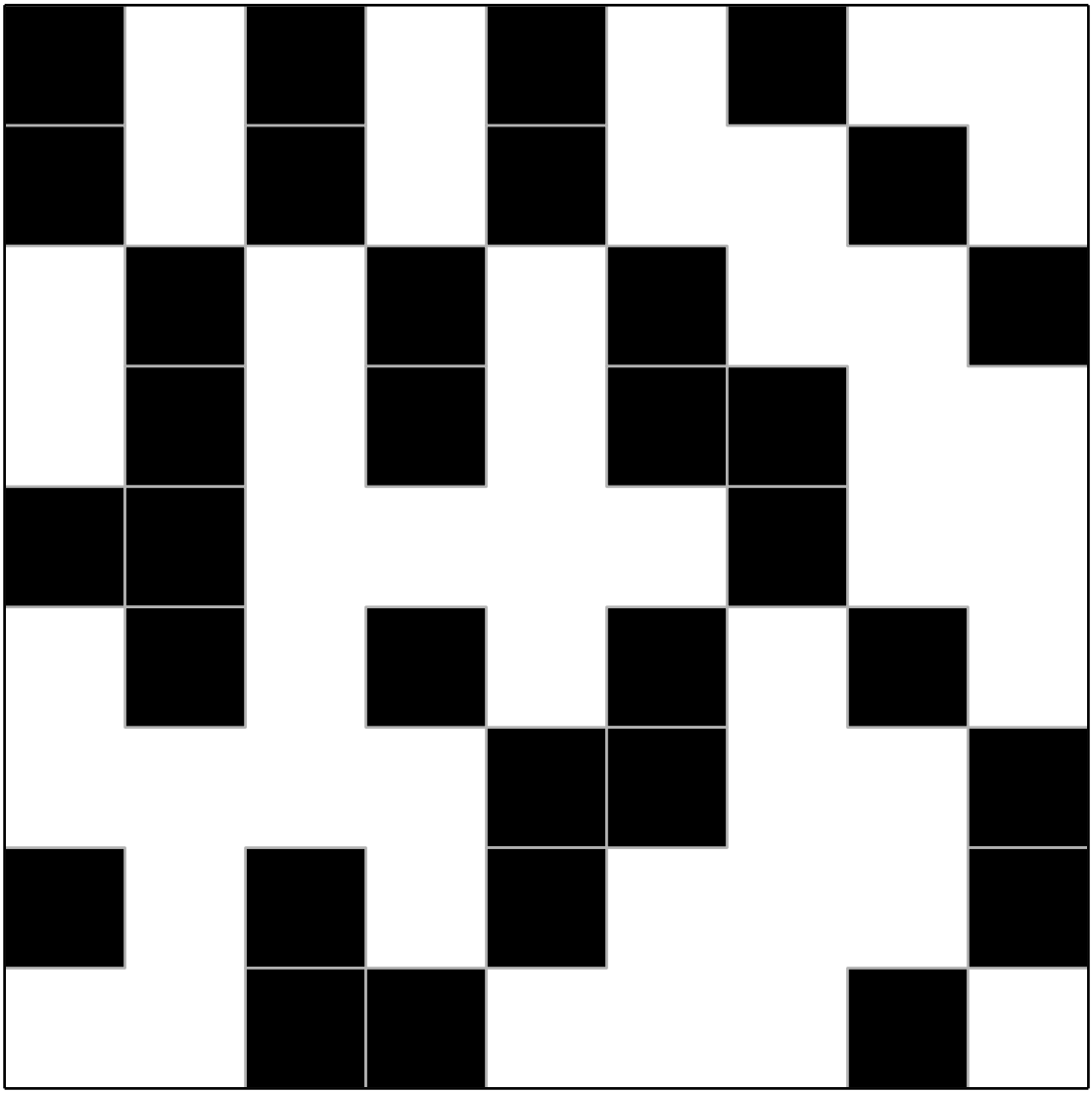

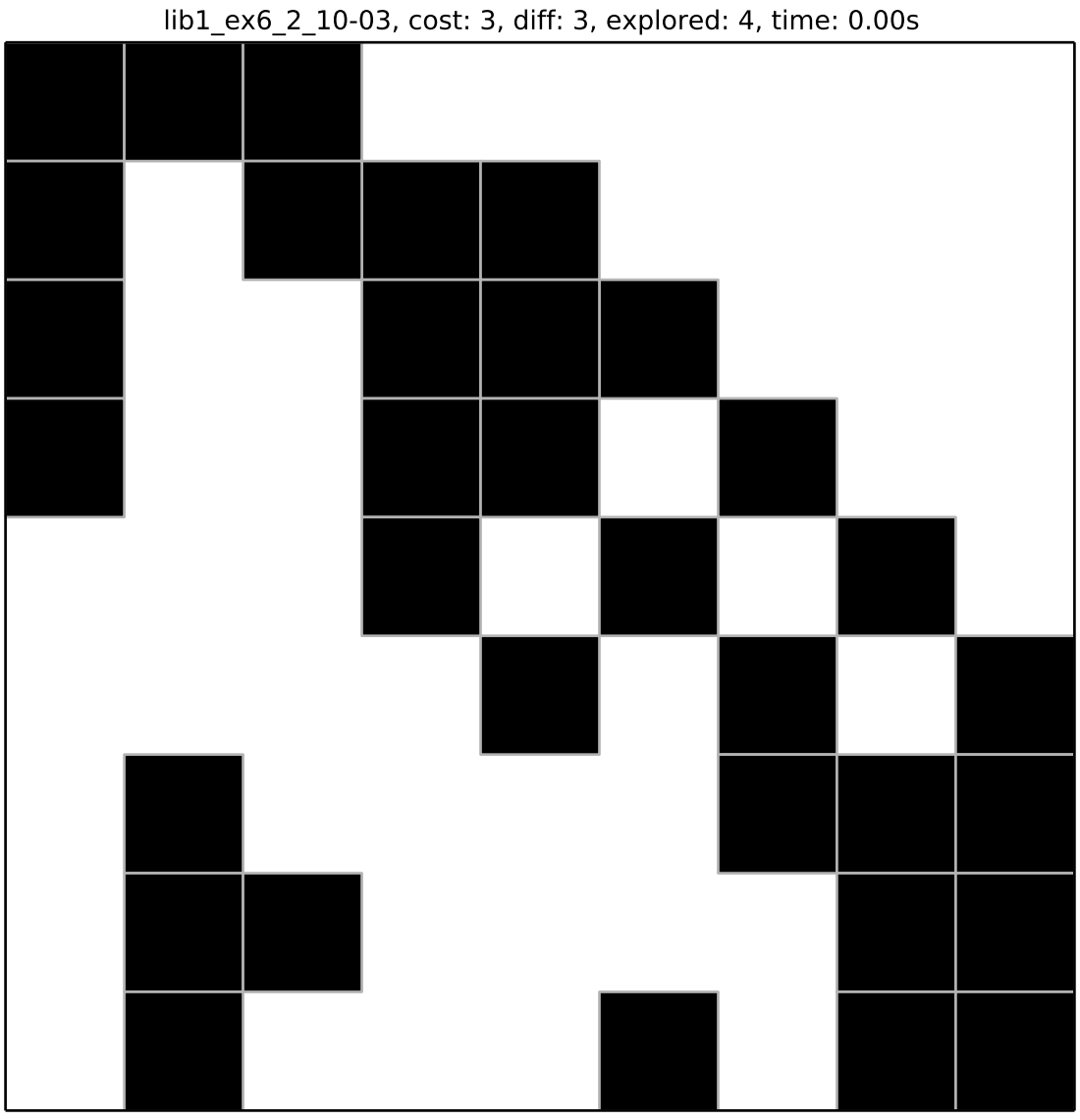
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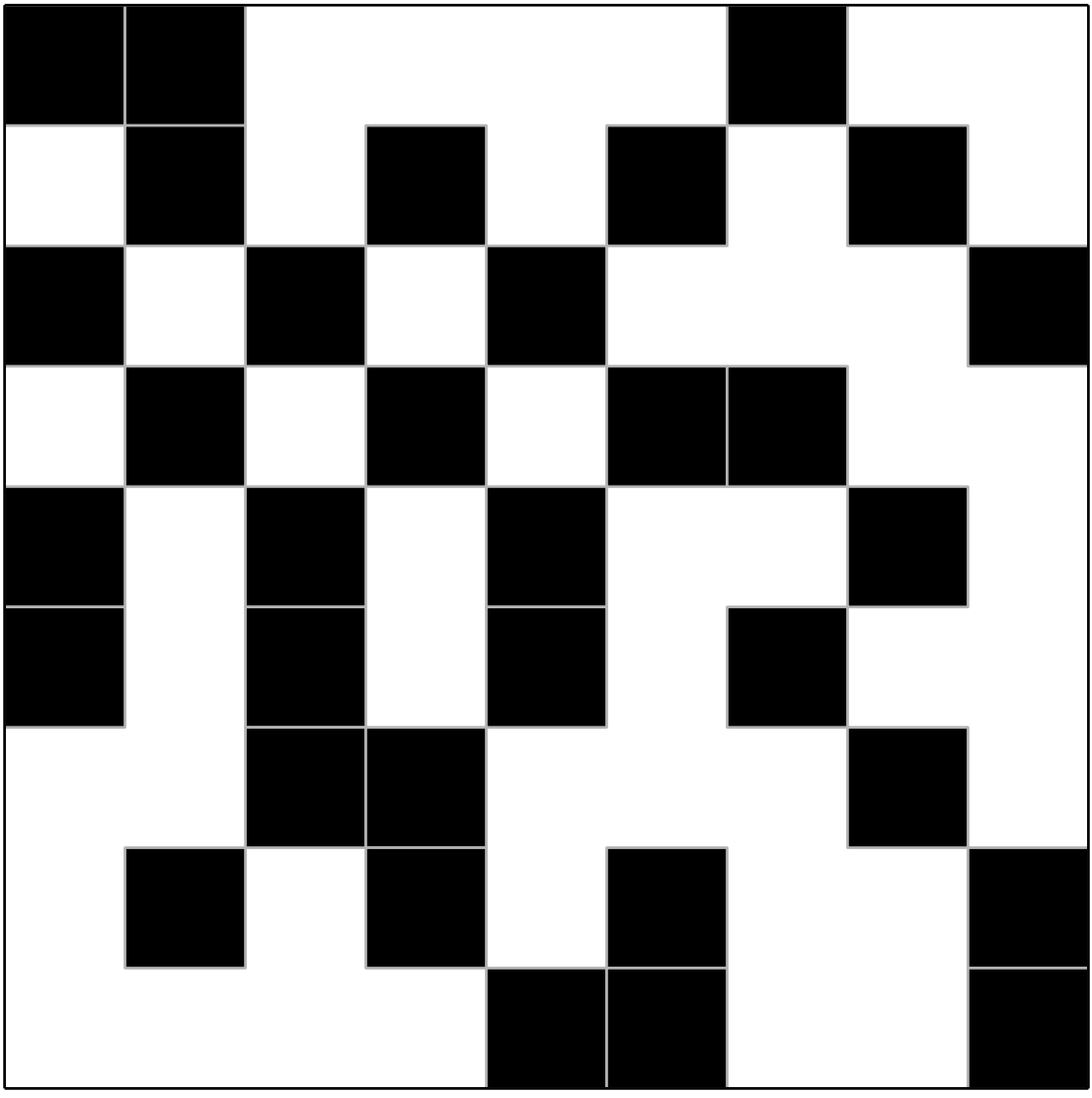
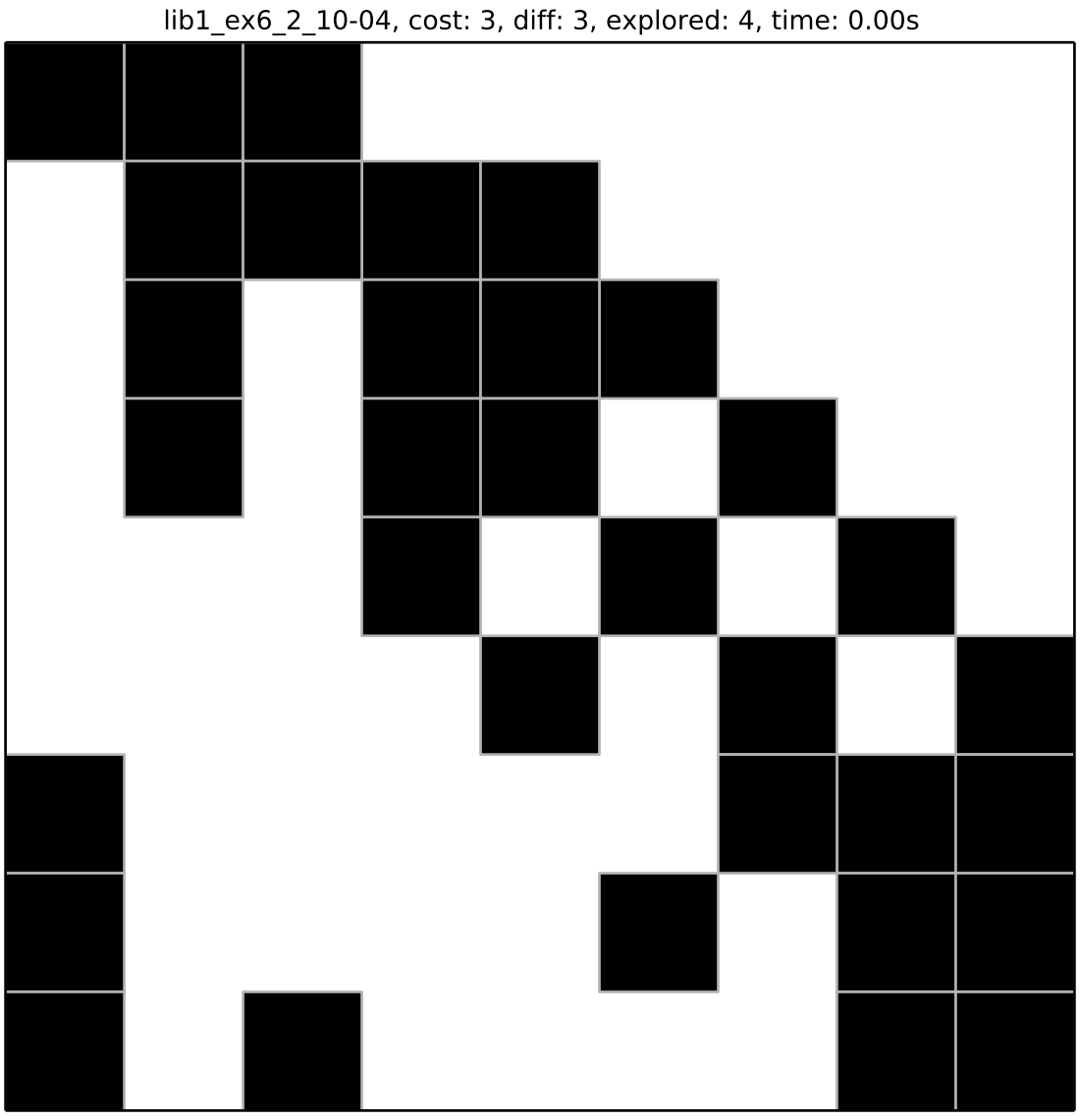
lib1_ex6_2_10-04 9x9 (33) con: 3, var: 6

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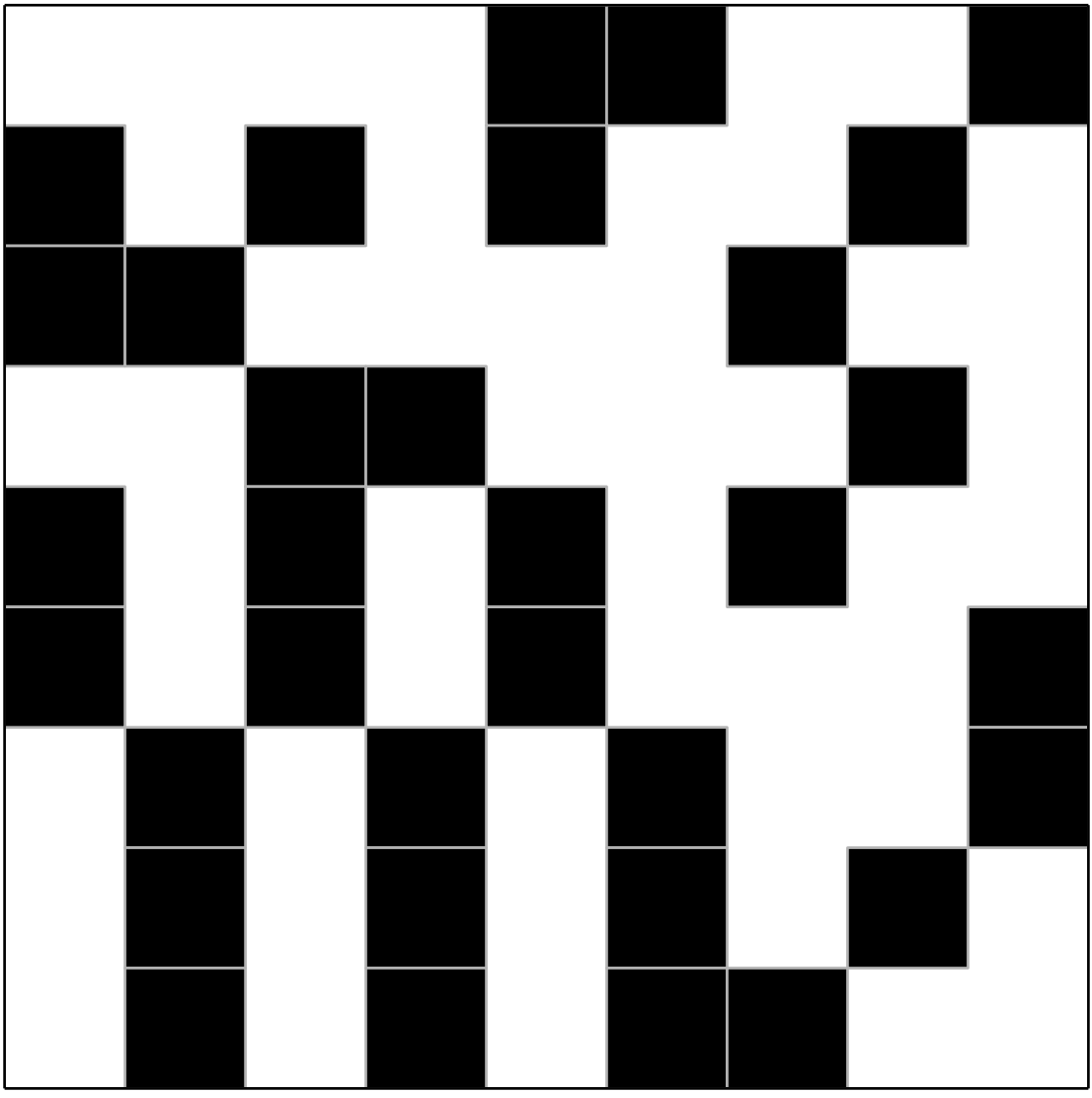
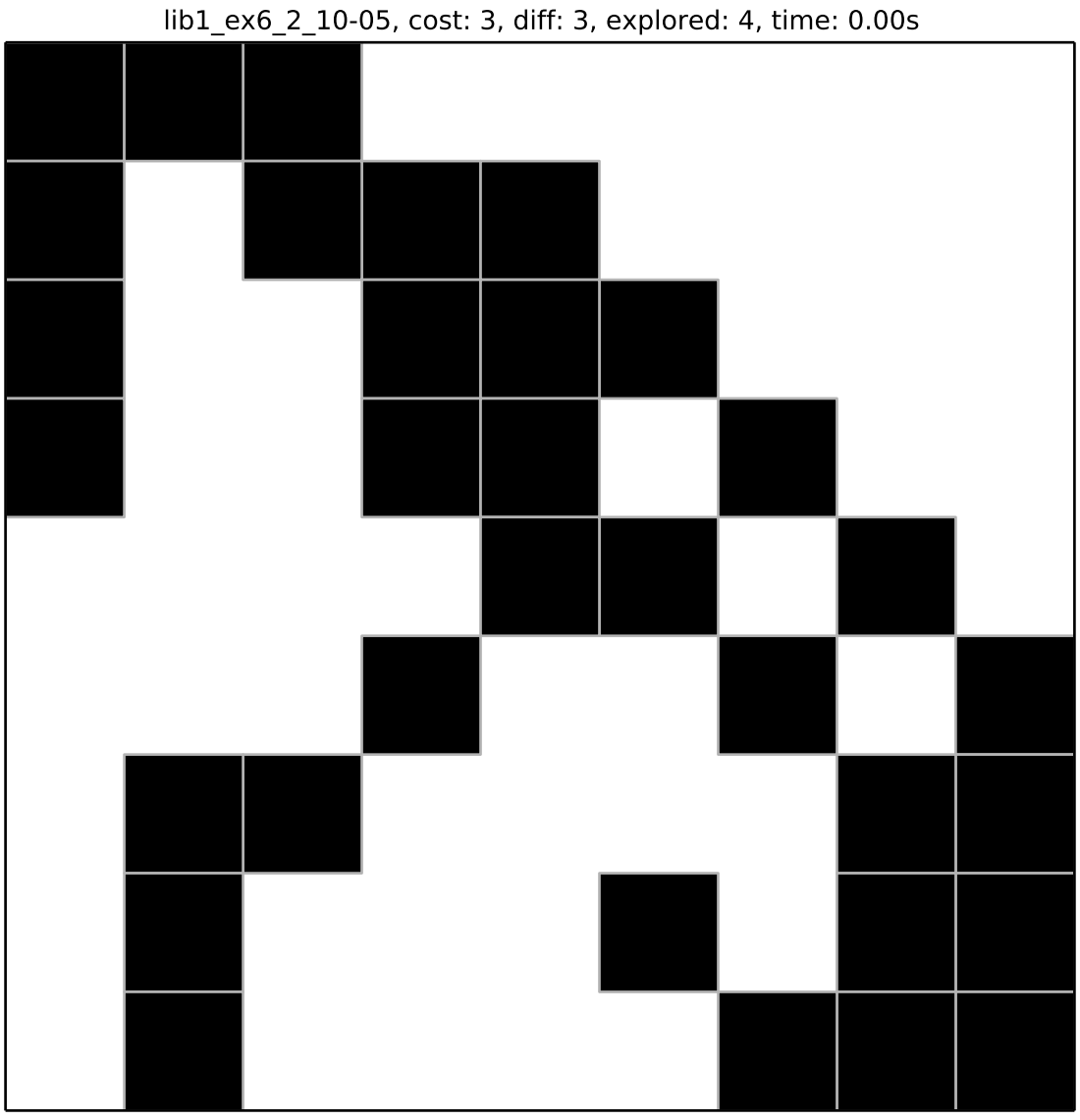
lib1_ex6_2_10-05 9x9 (33) con: 3, var: 6

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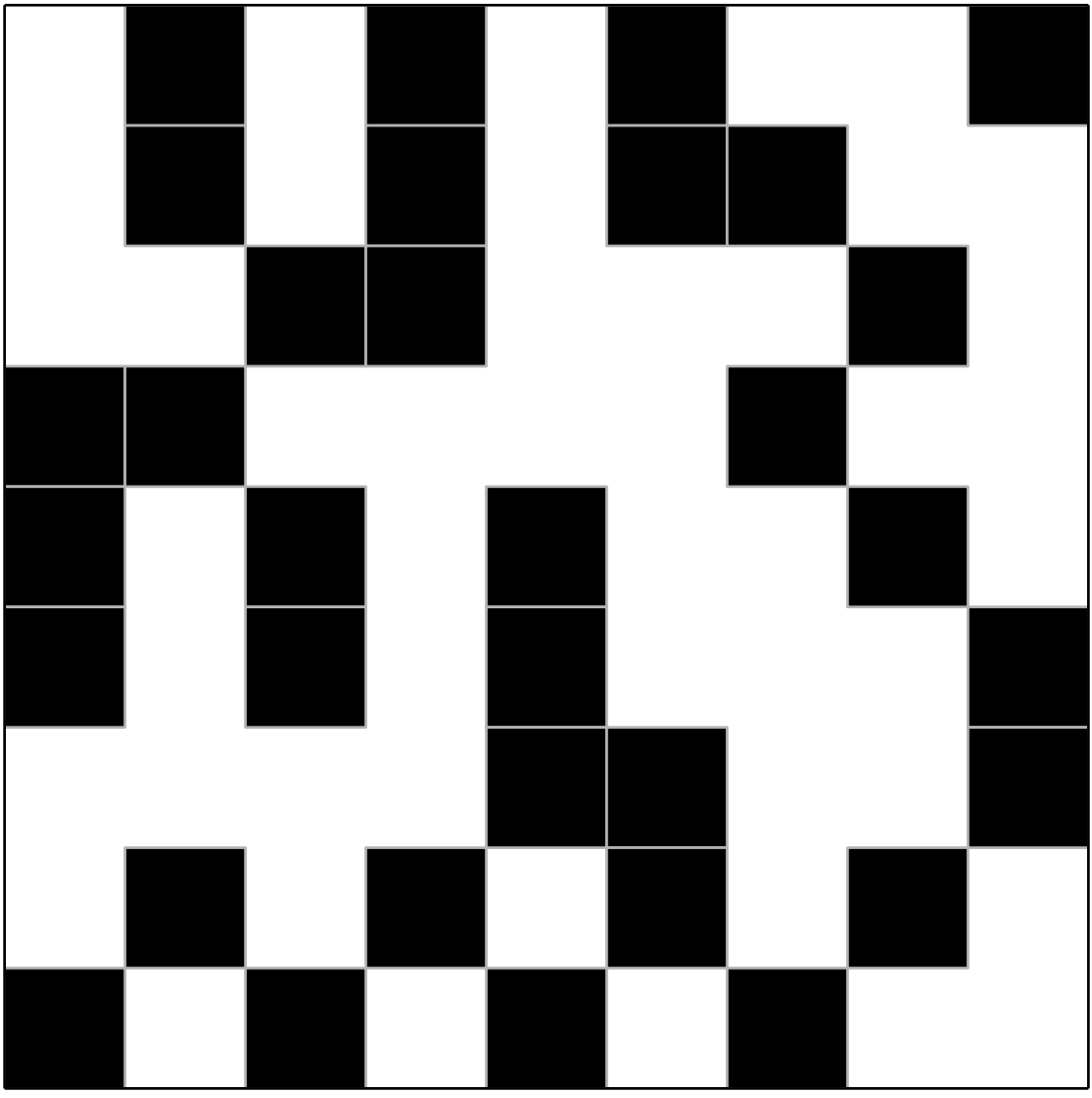
lib1_ex6_2_10-06 9x9 (33) con: 3, var: 6



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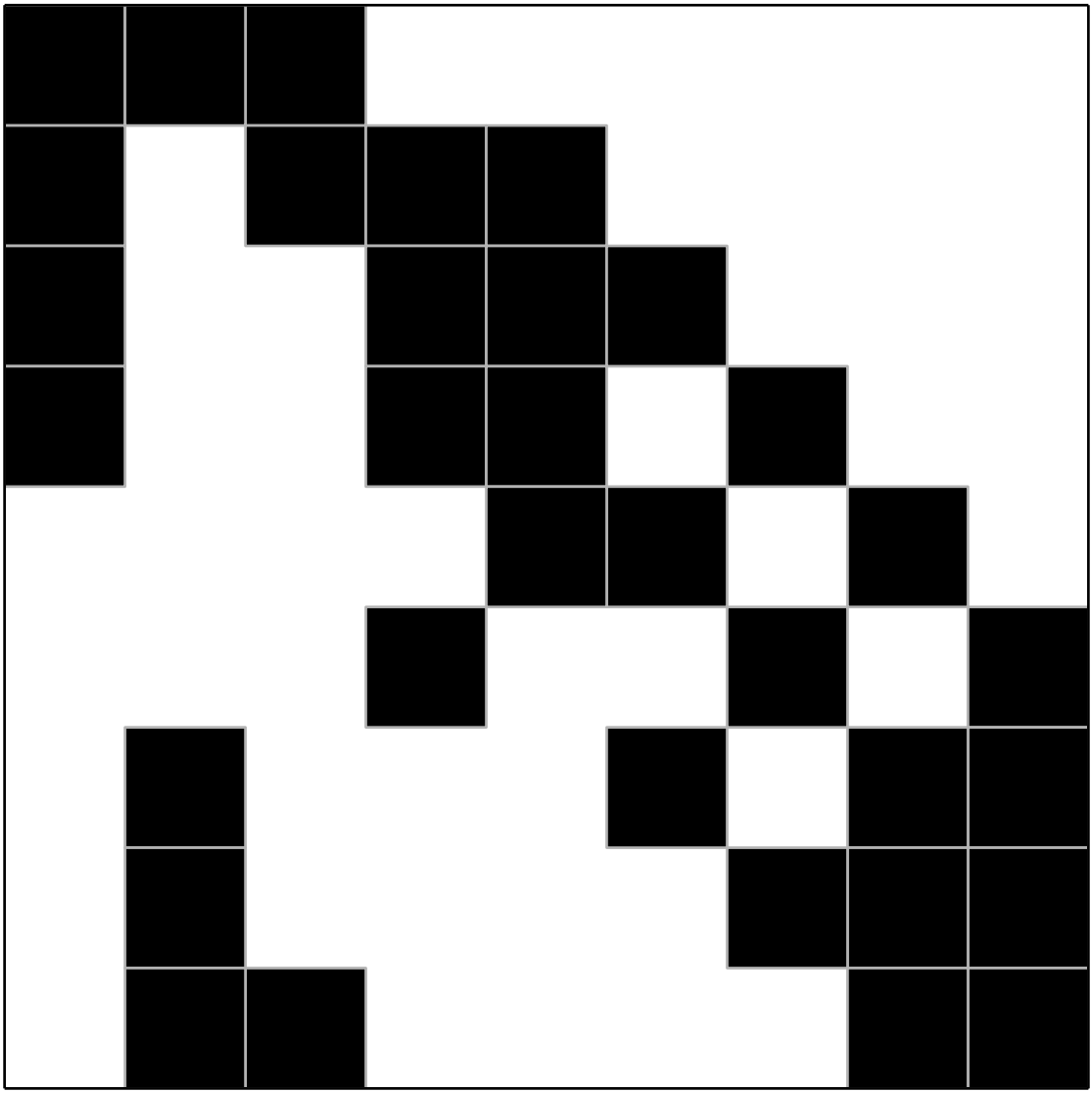

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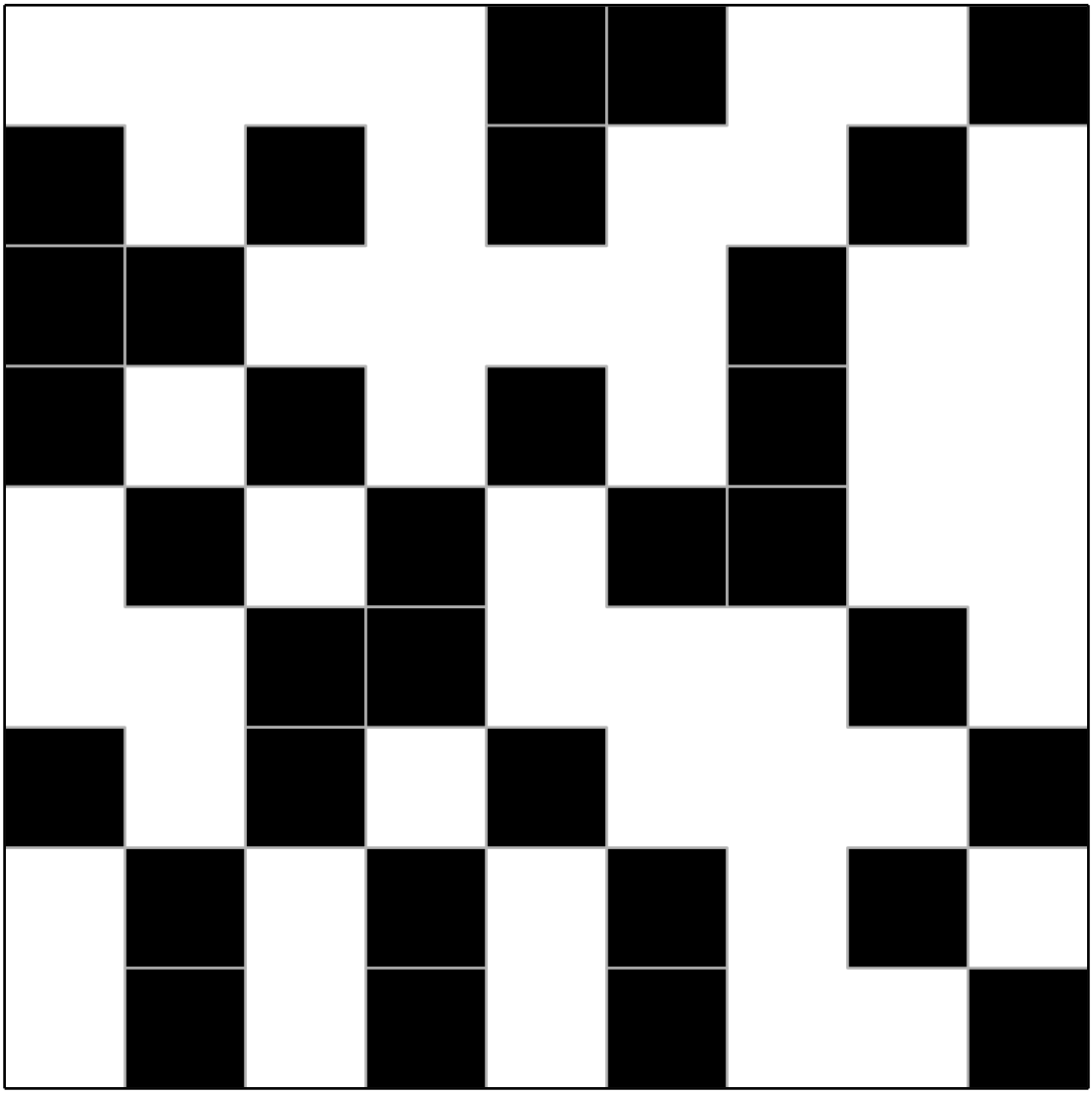

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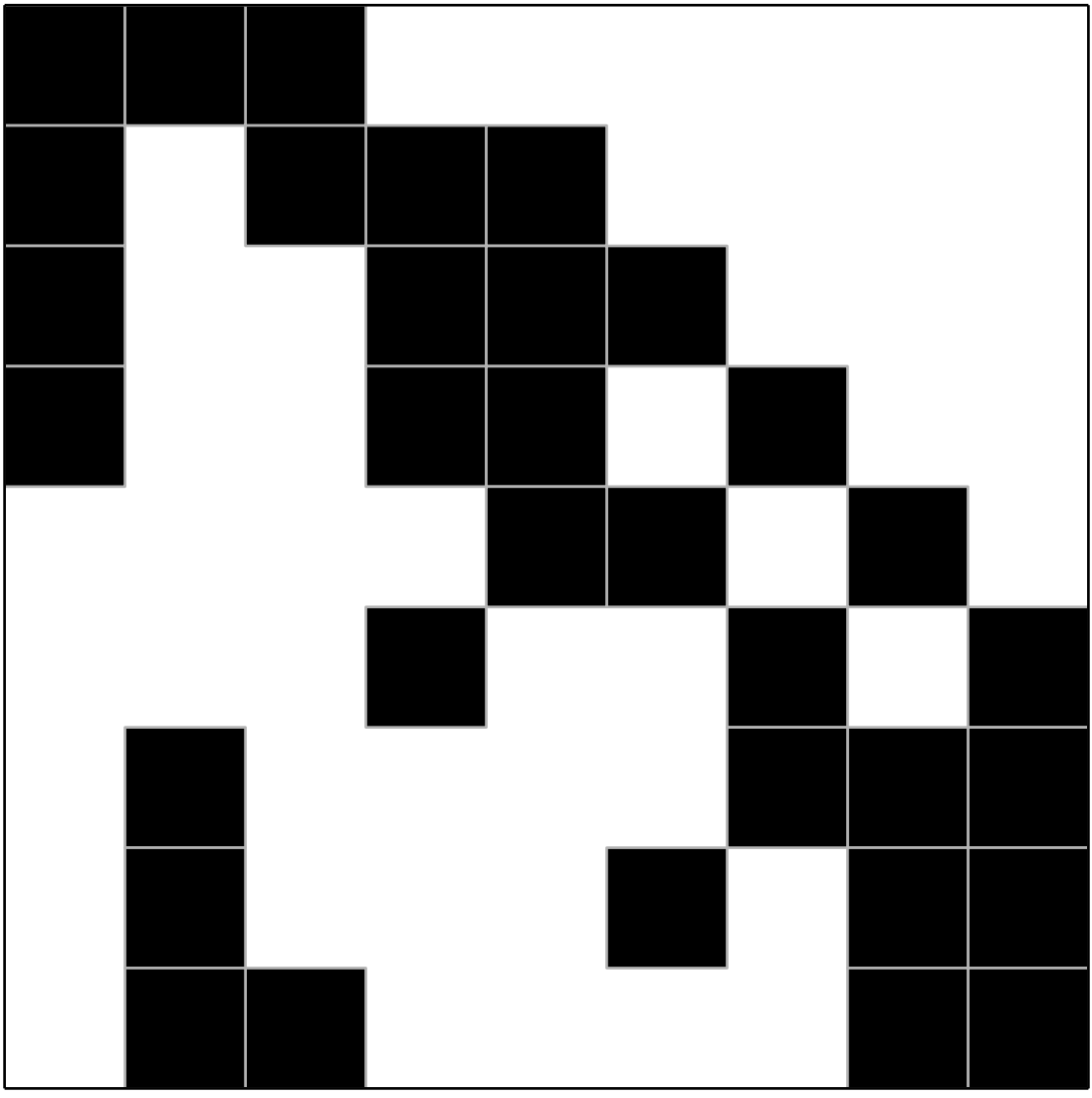
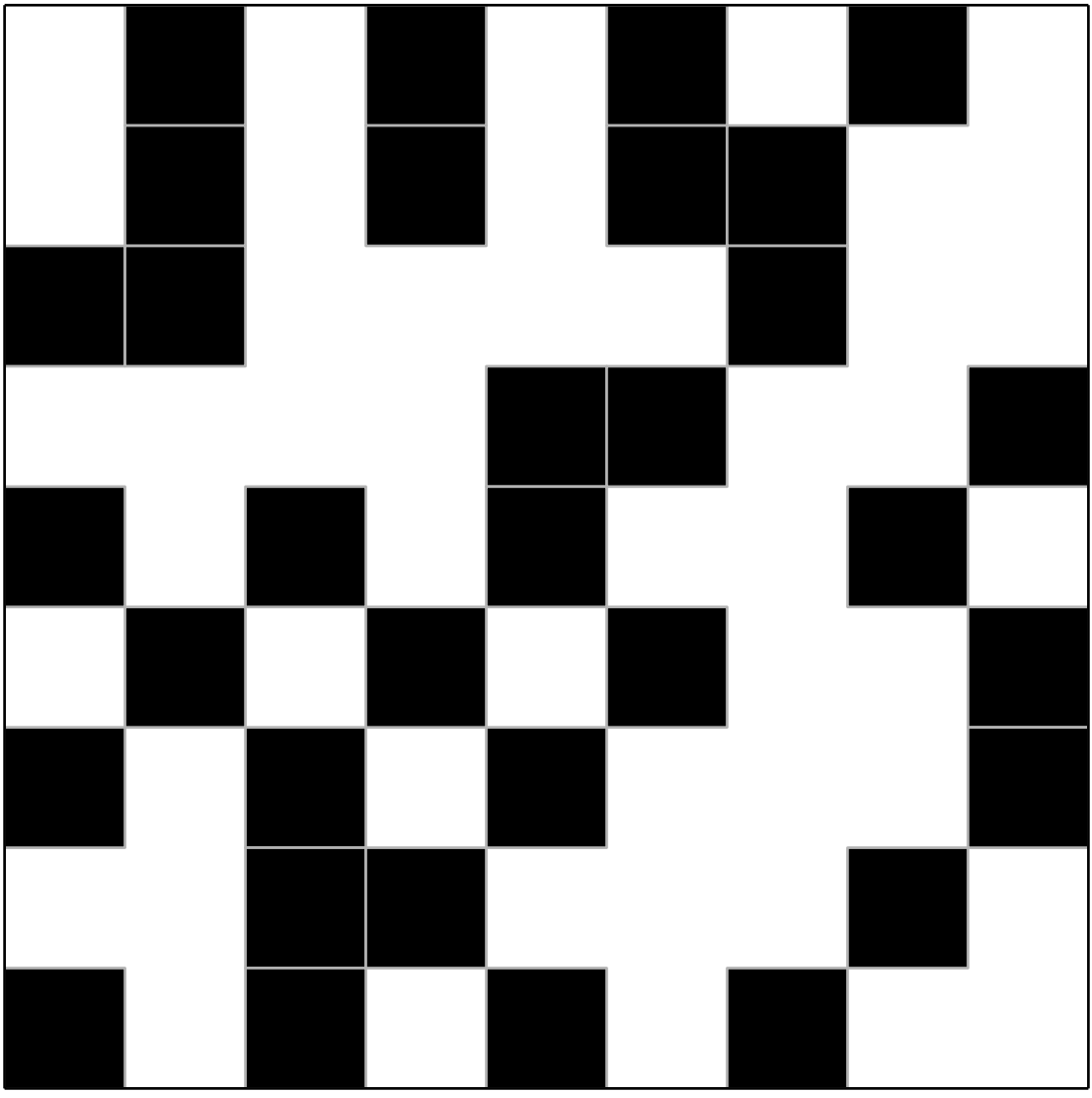
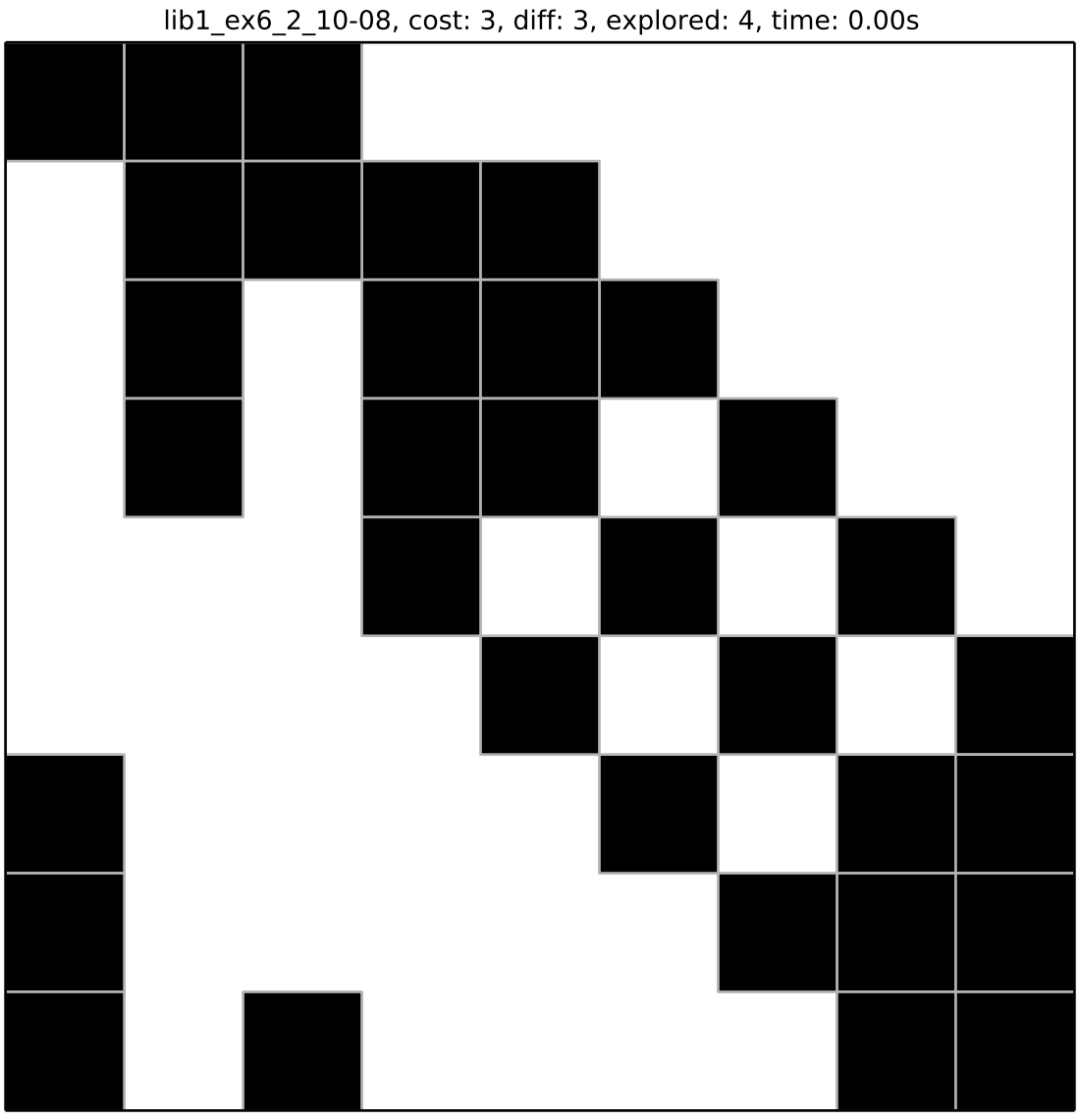


lib1_ex6_2_10-08 9x9 (33) con: 3, var: 6

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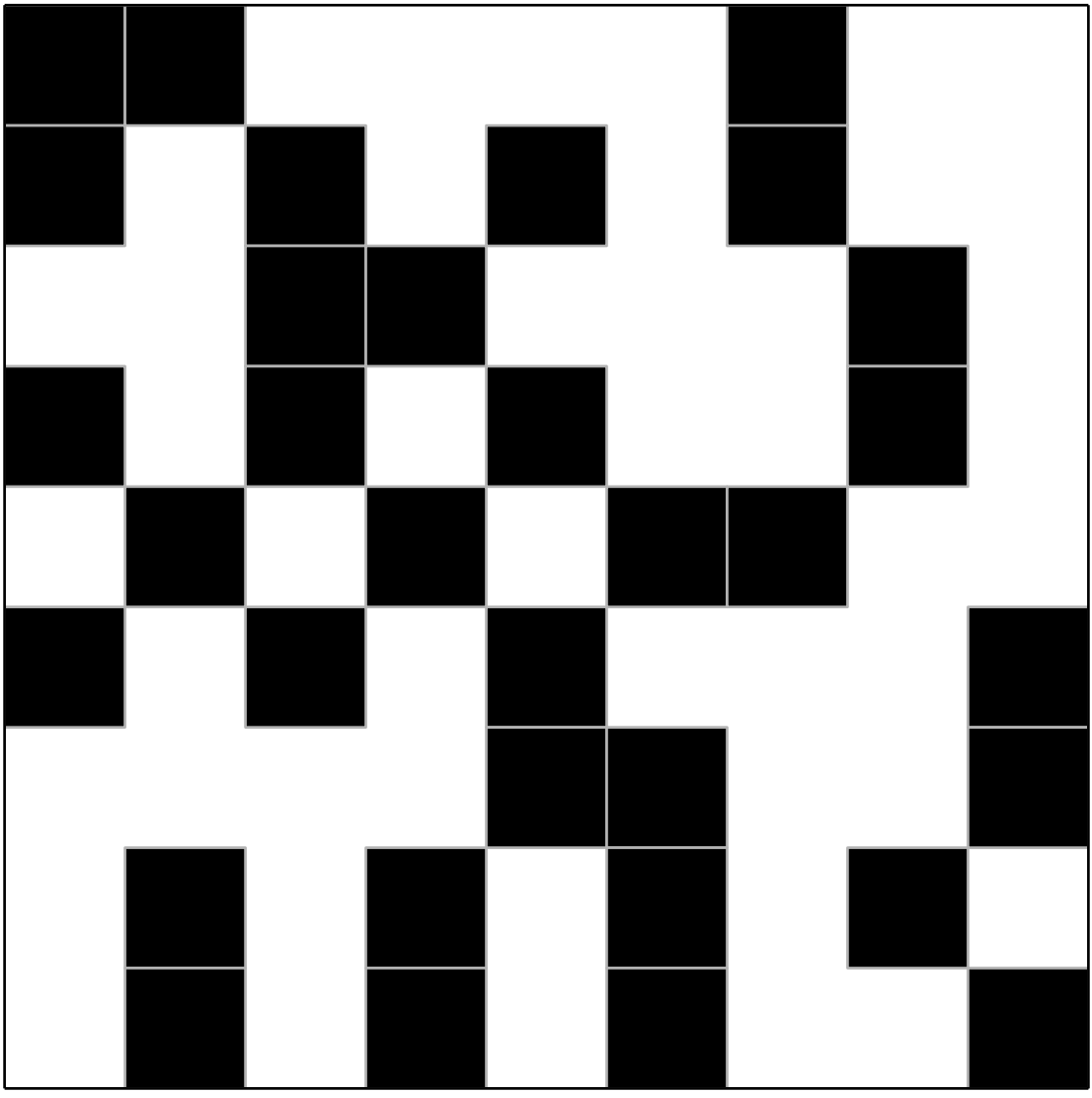
lib1_ex6_2_10-09 9x9 (33) con: 3, var: 6



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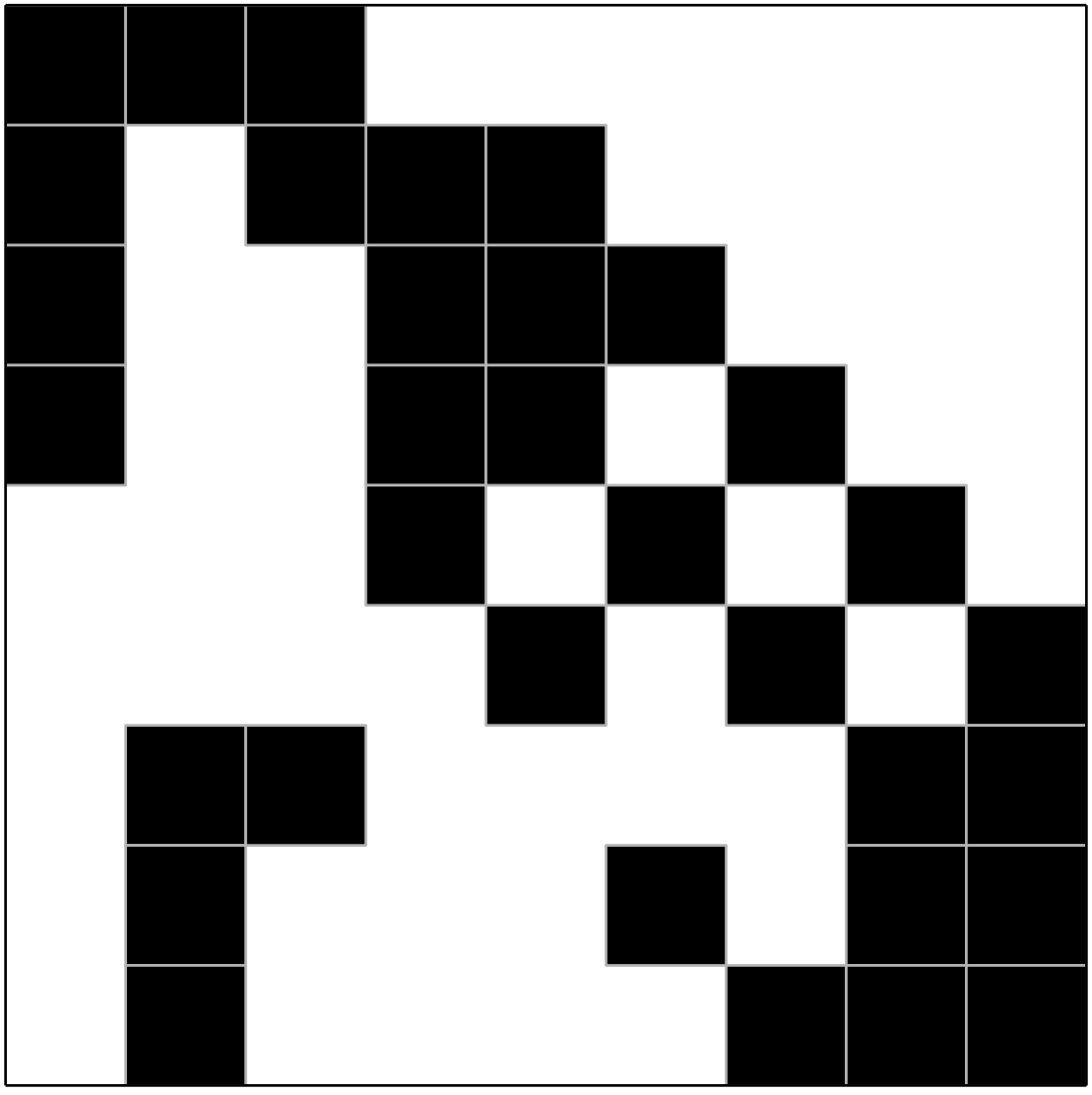
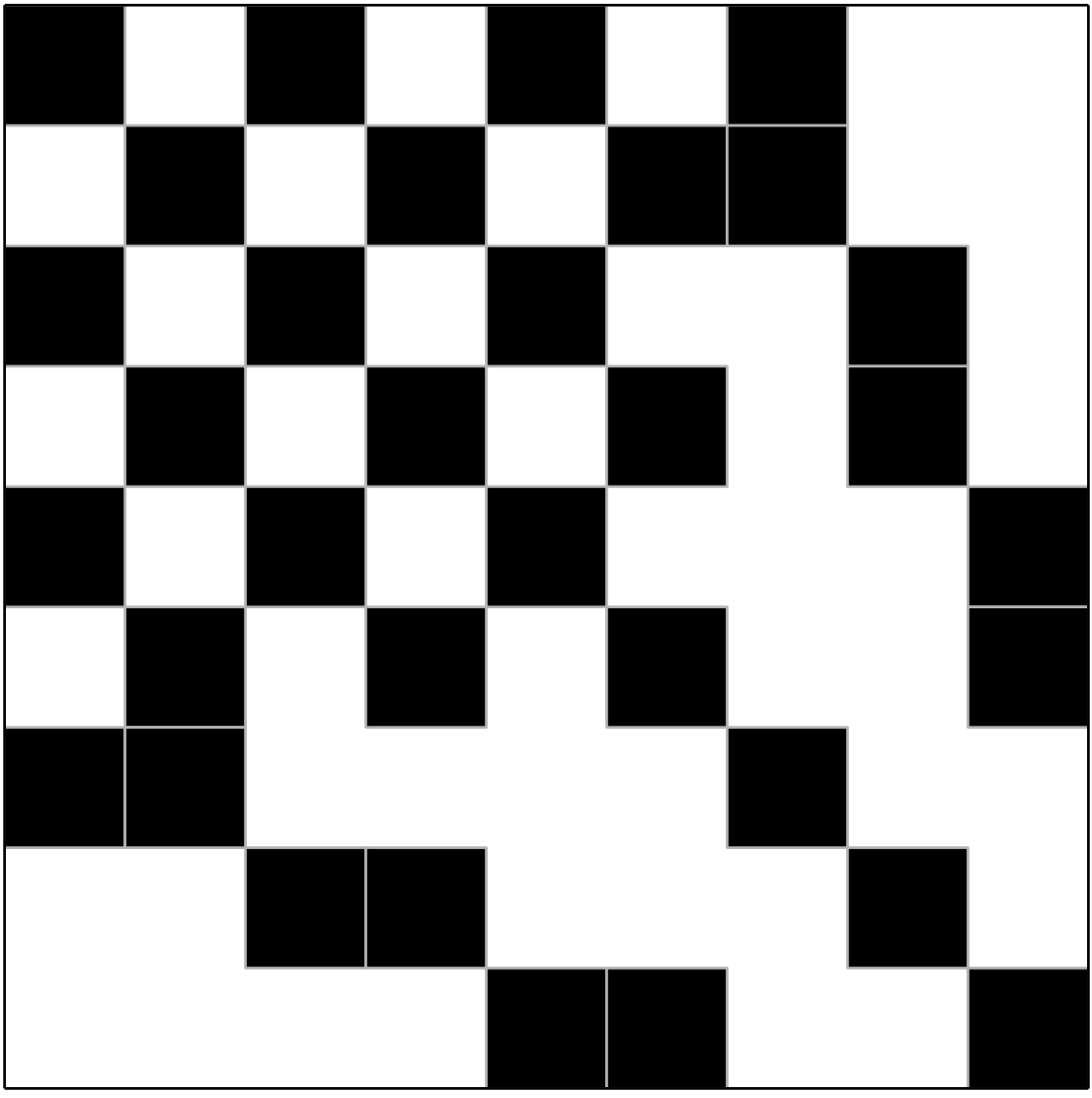
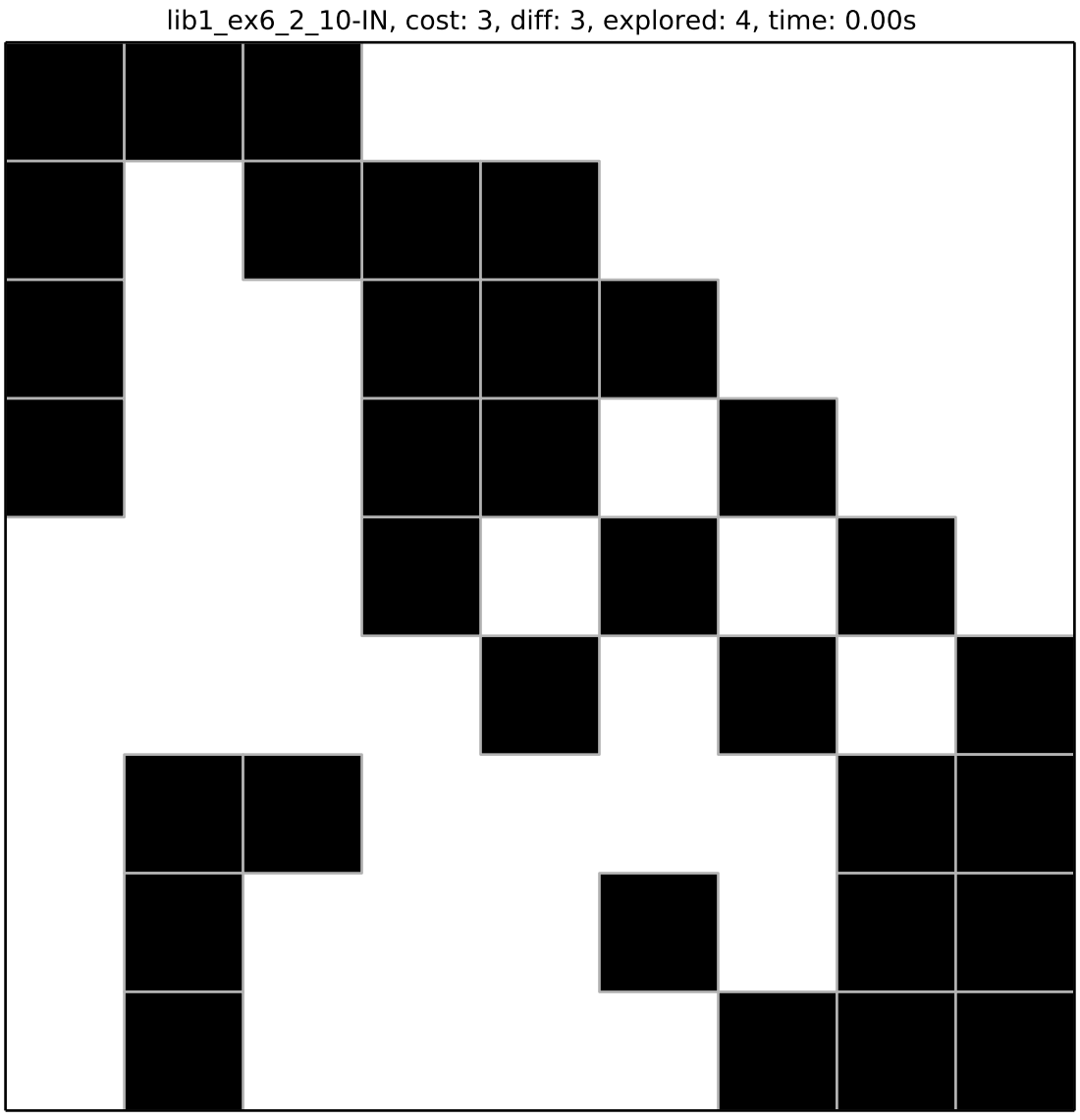


lib1_ex6_2_10-IN 9x9 (33) con: 3, var: 6

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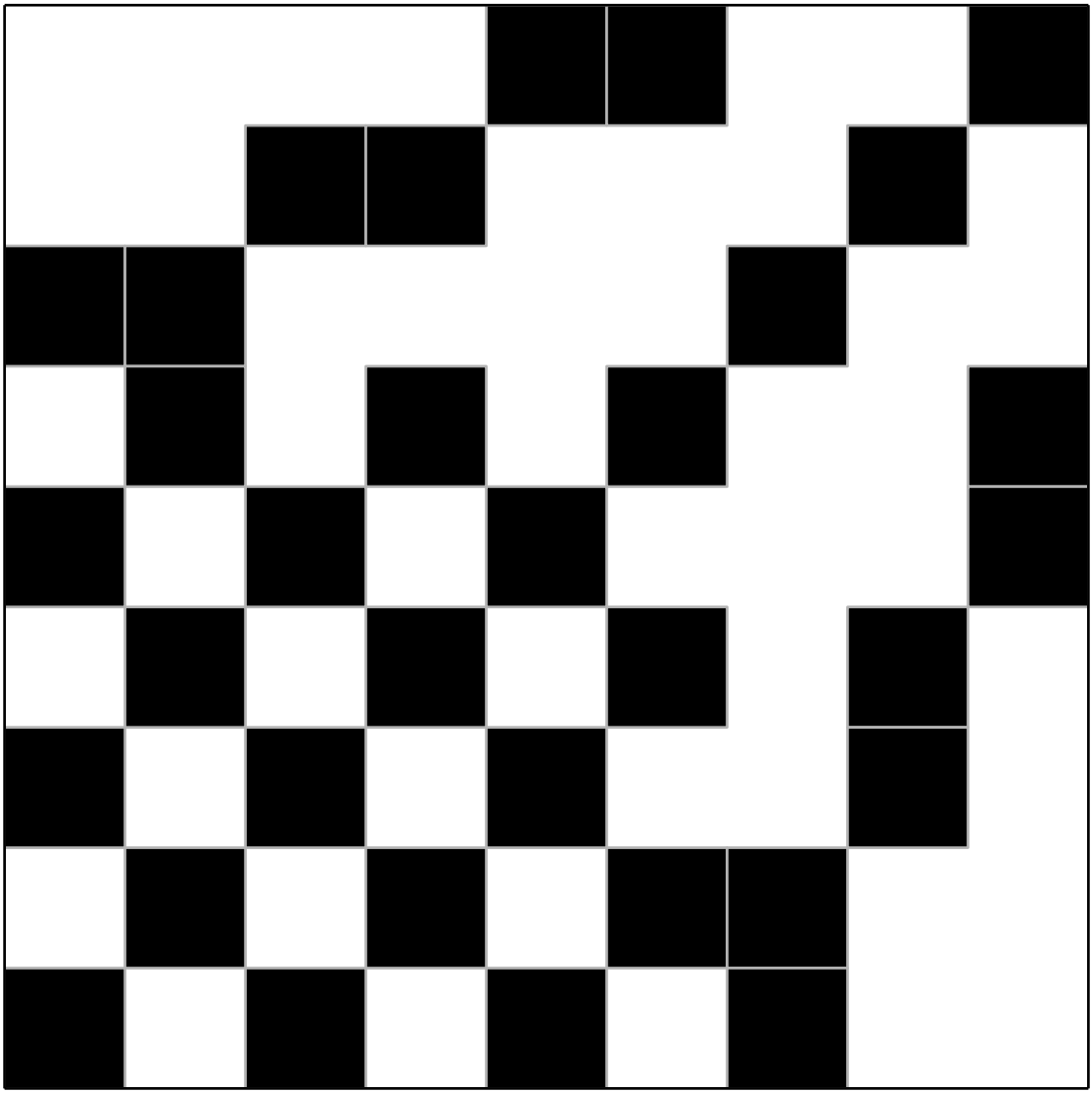
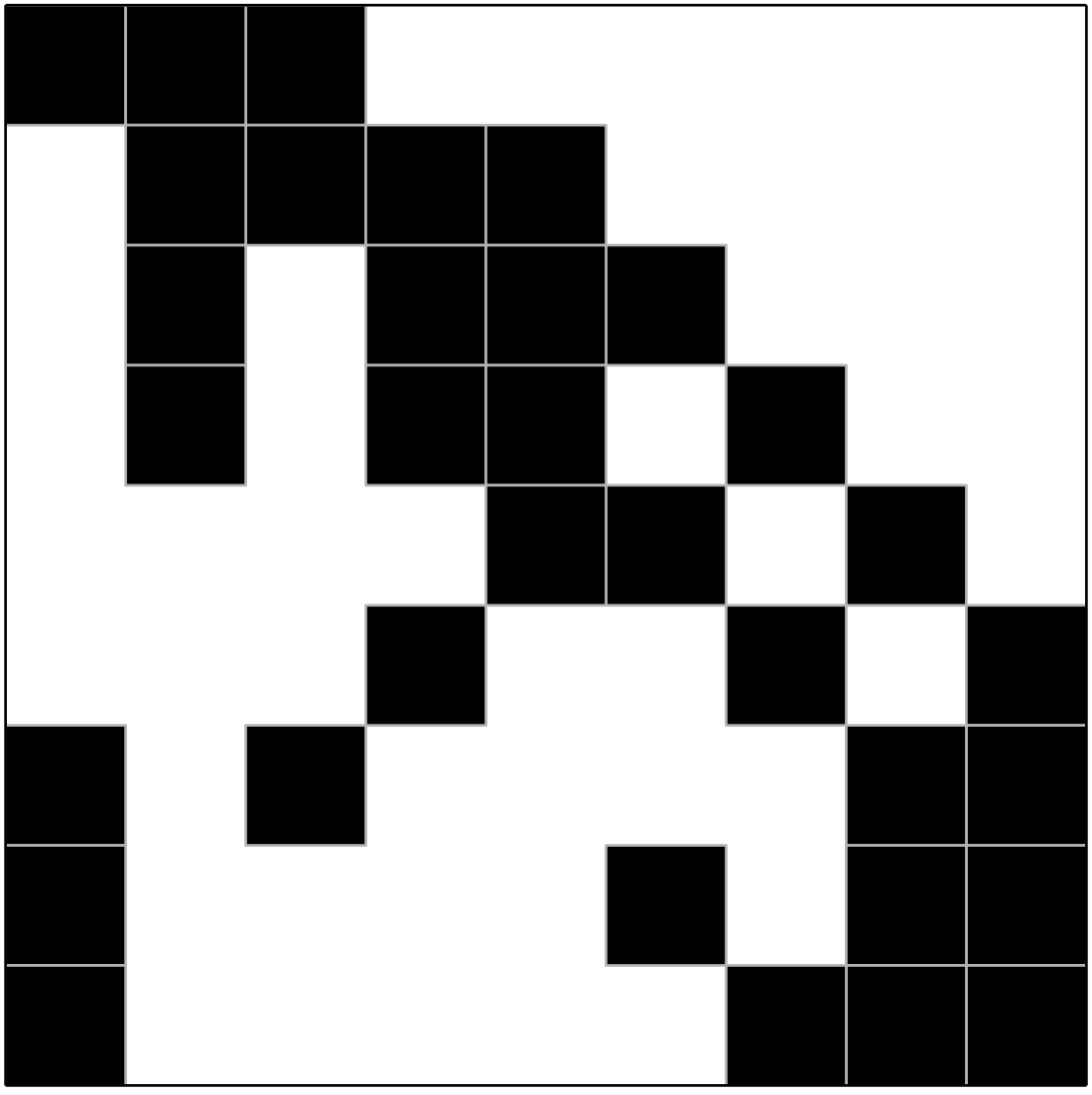
lib1_ex6_2_10-RE 9x9 (33) con: 3, var: 6

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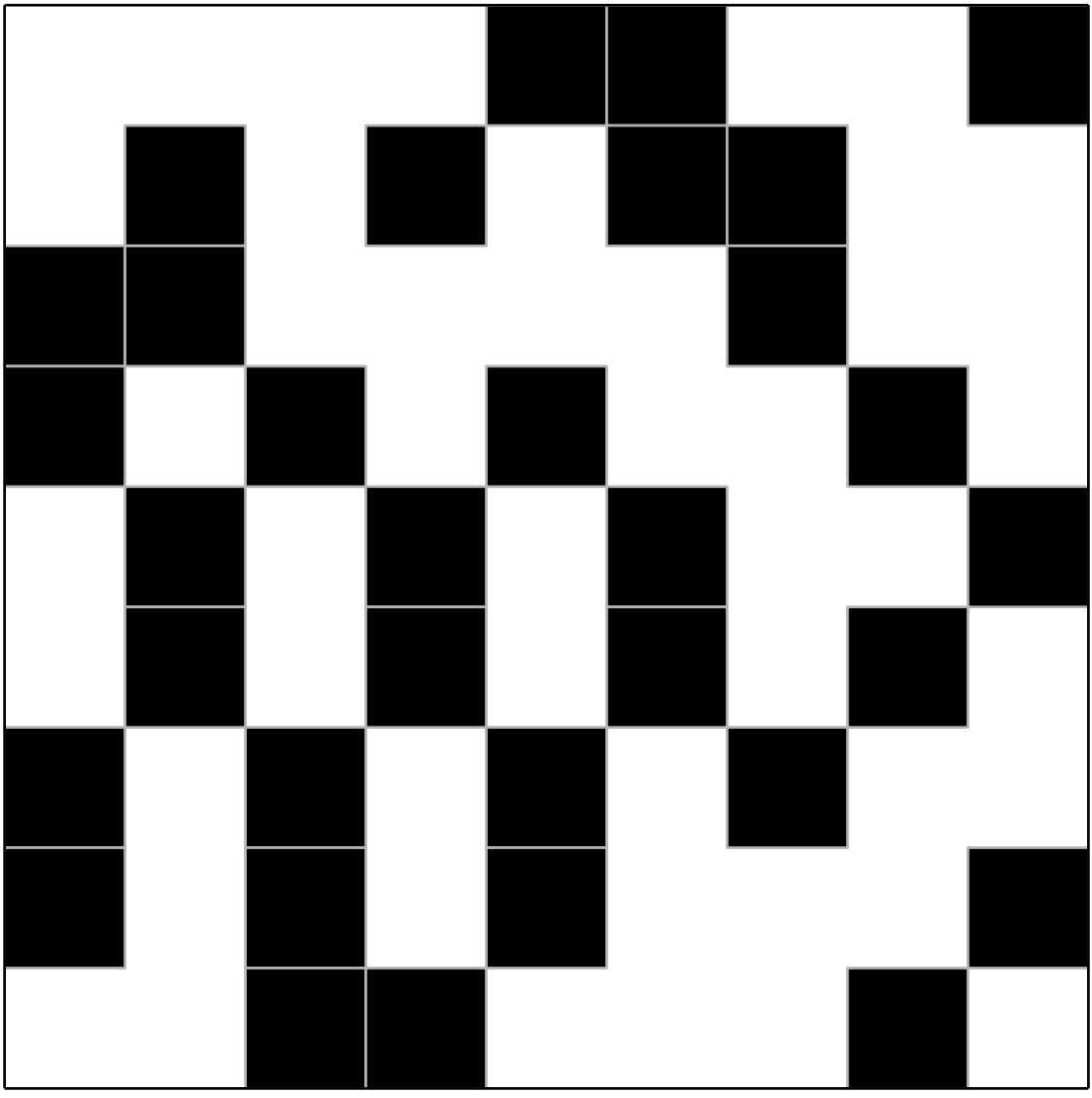
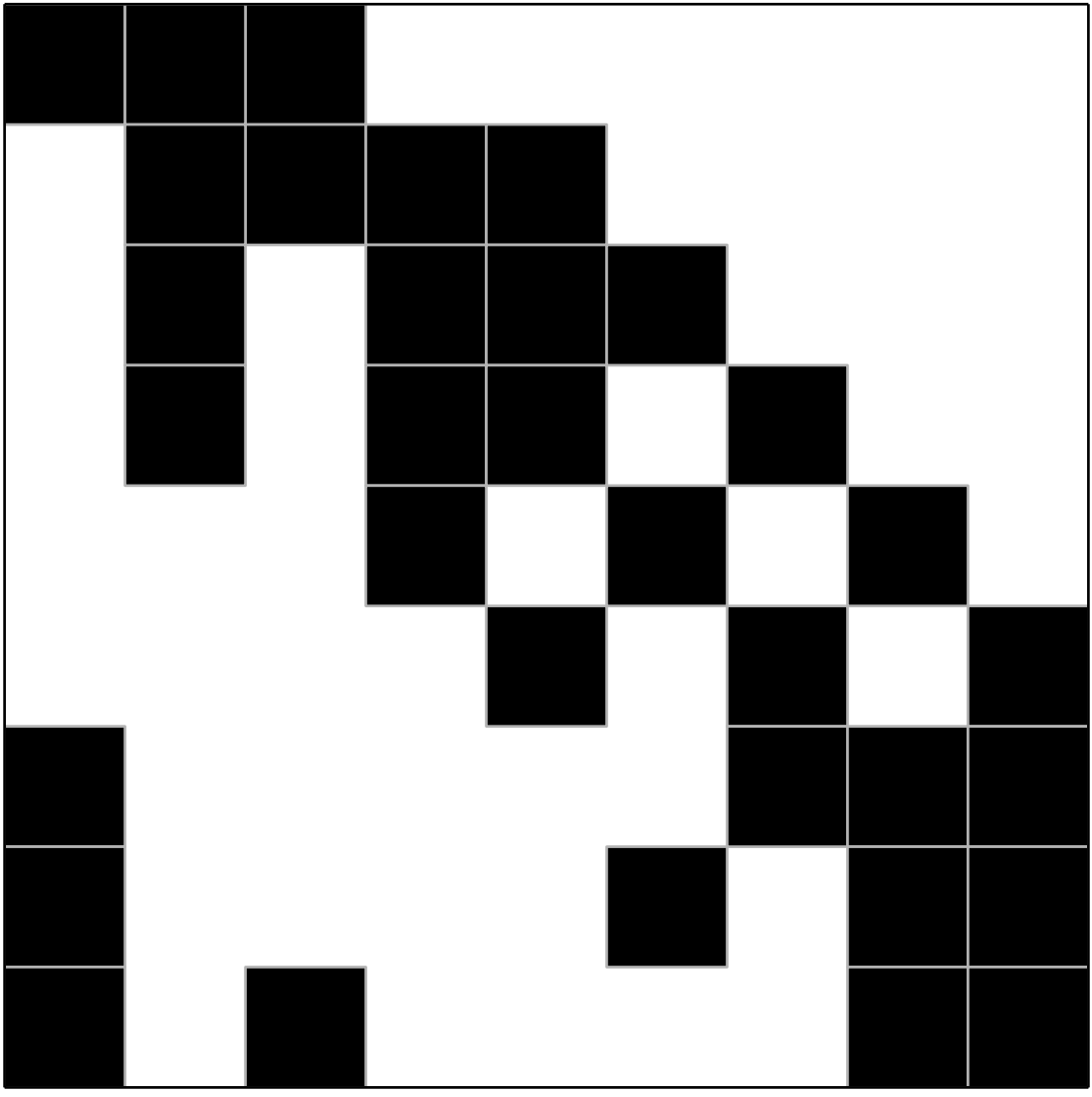
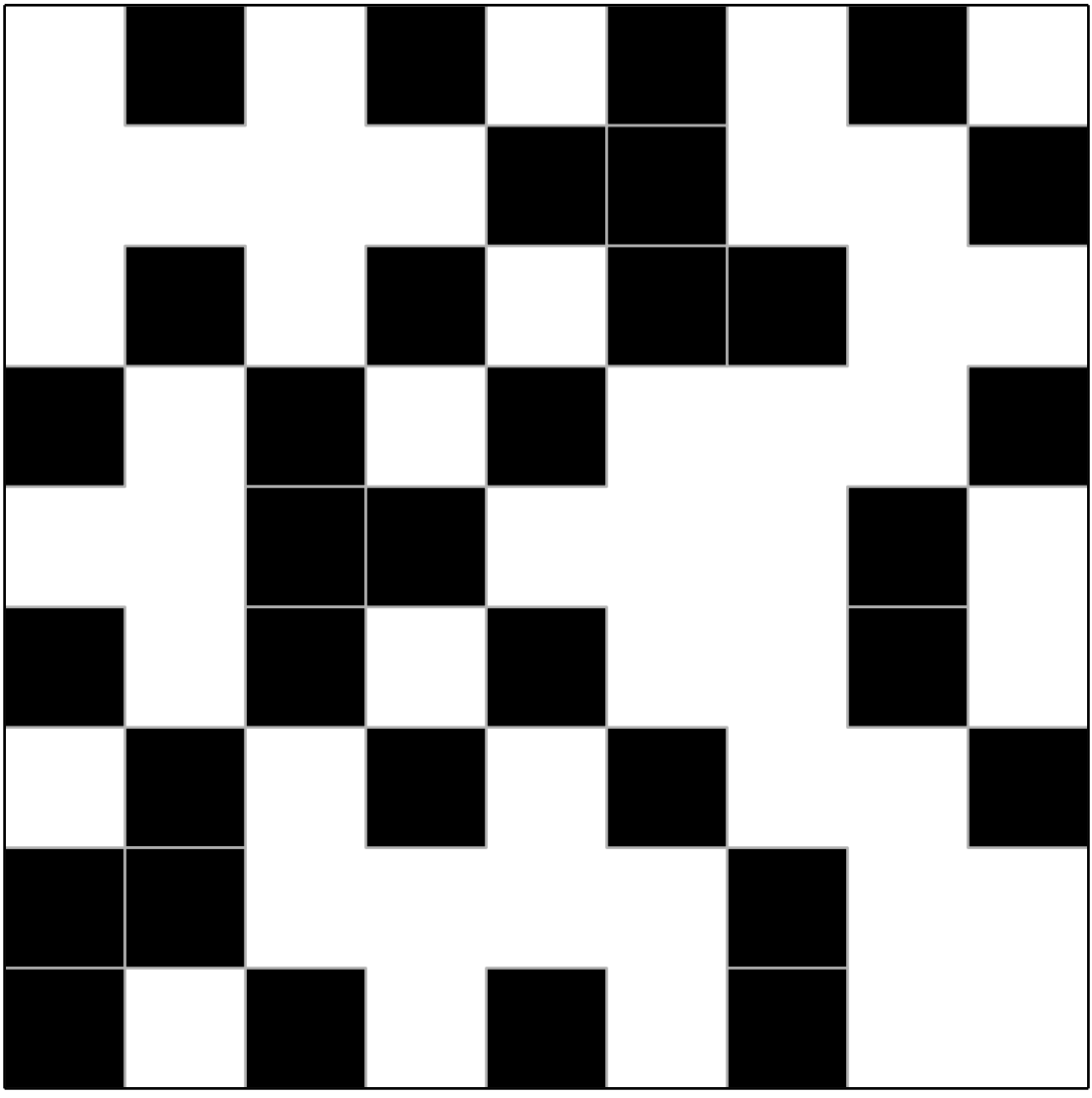
lib1_ex6_2_13-00 9x9 (33) con: 3, var: 6



lib1_ex6_2_13-00, cost: 3, diff: 3, explored: 4, time: 0.00s



lib1_ex6_2_13-01 9x9 (33) con: 3, var: 6



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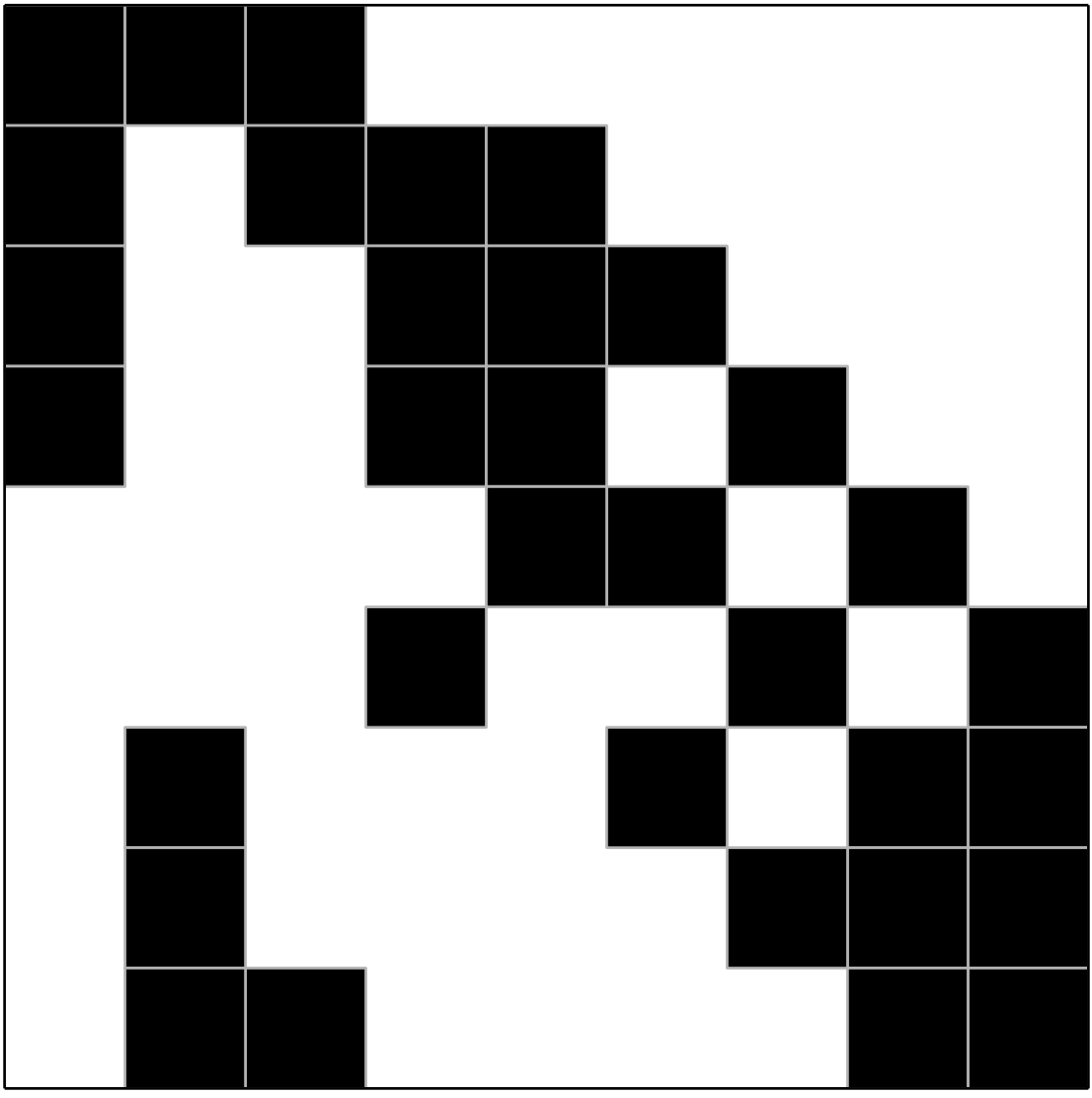
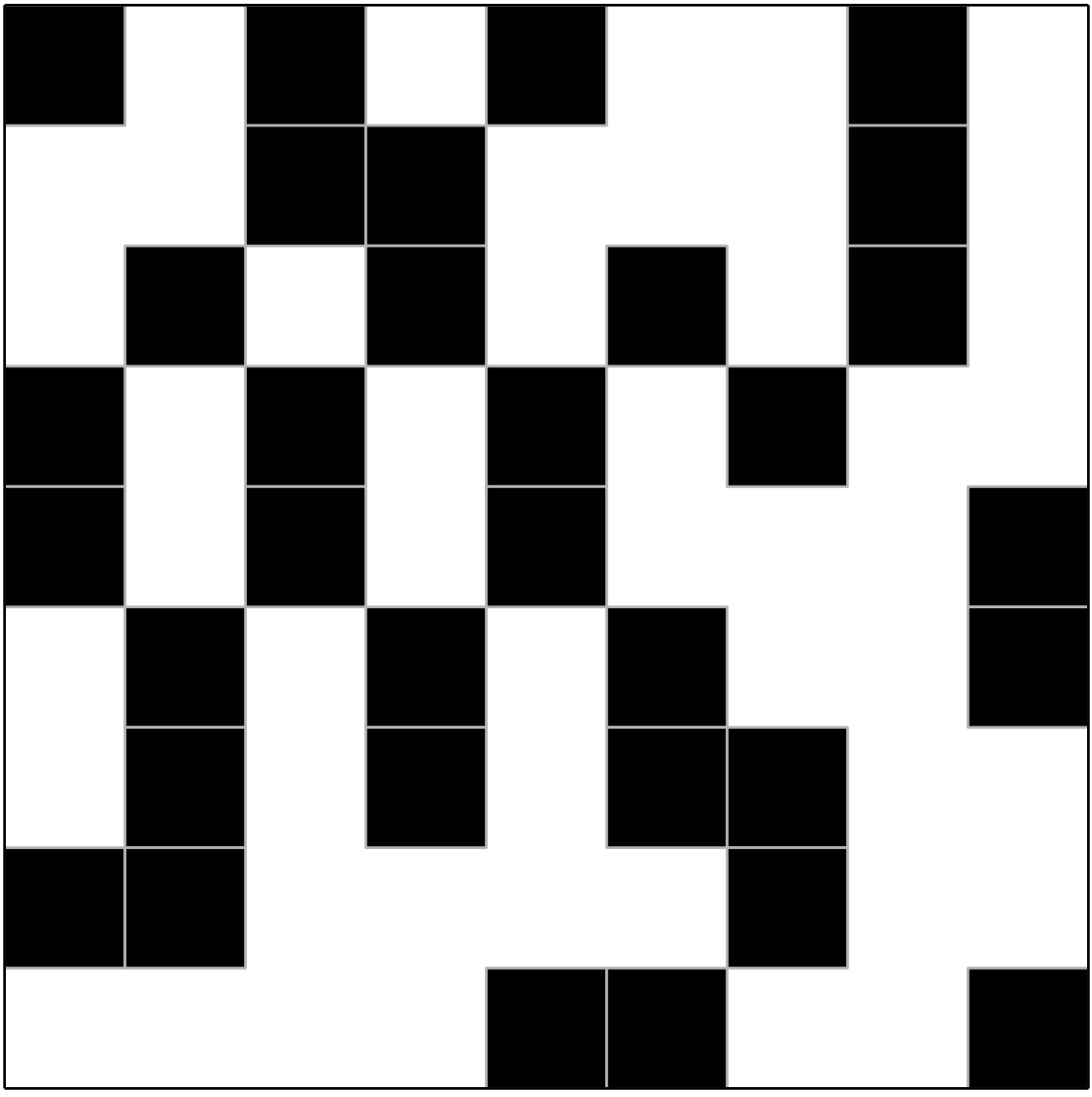


lib1_ex6_2_13-02 9x9 (33) con: 3, var: 6



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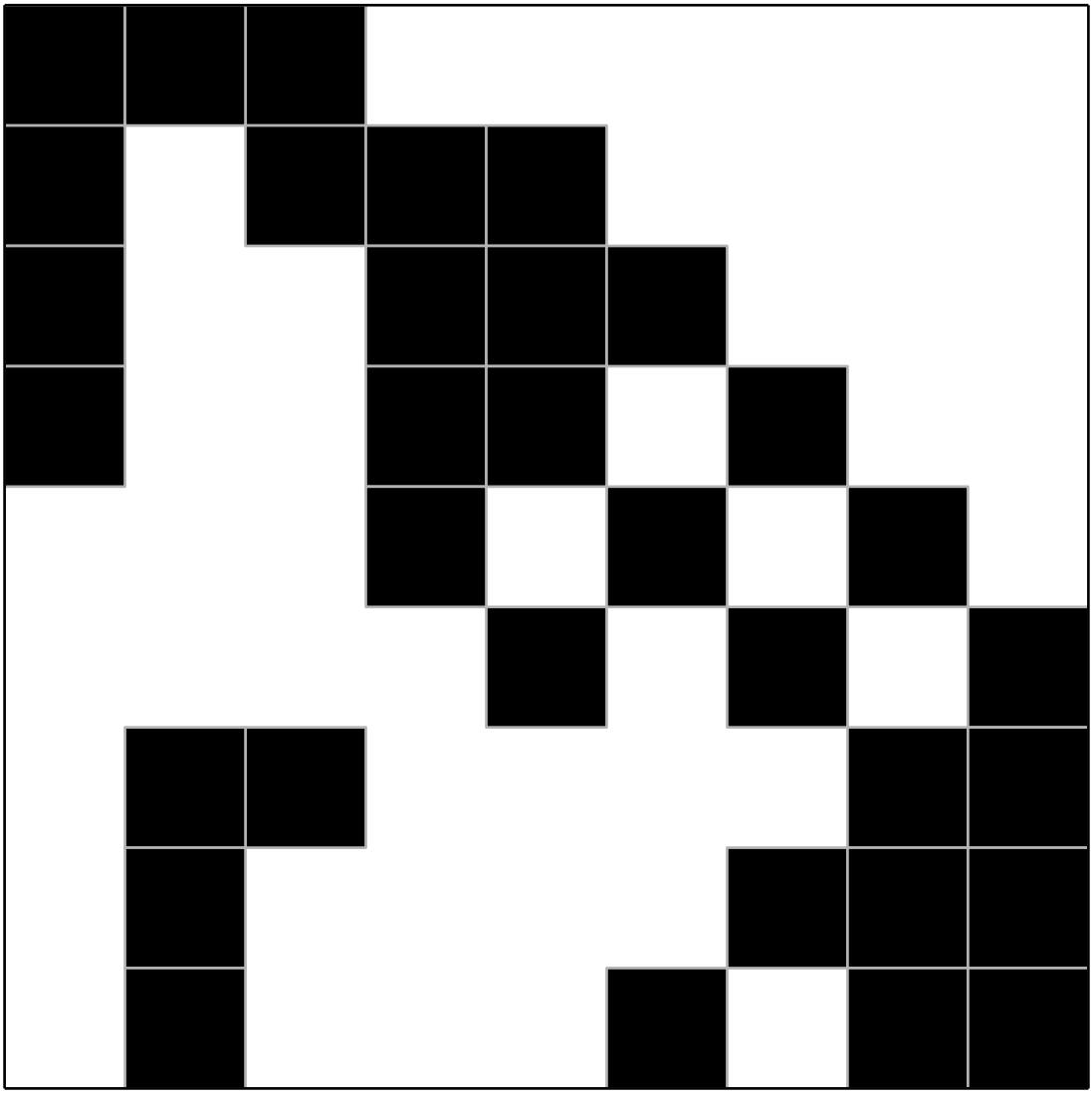
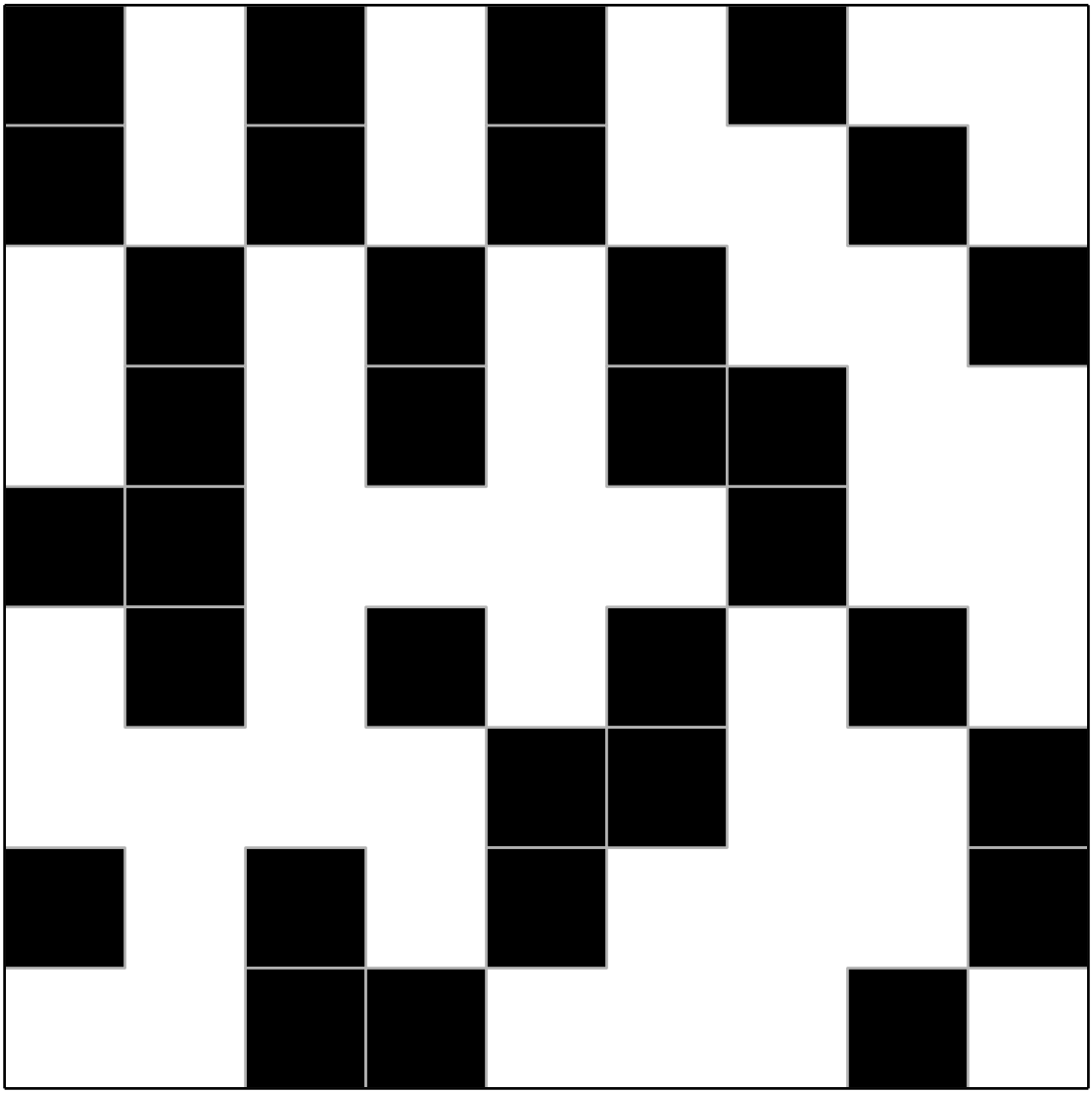
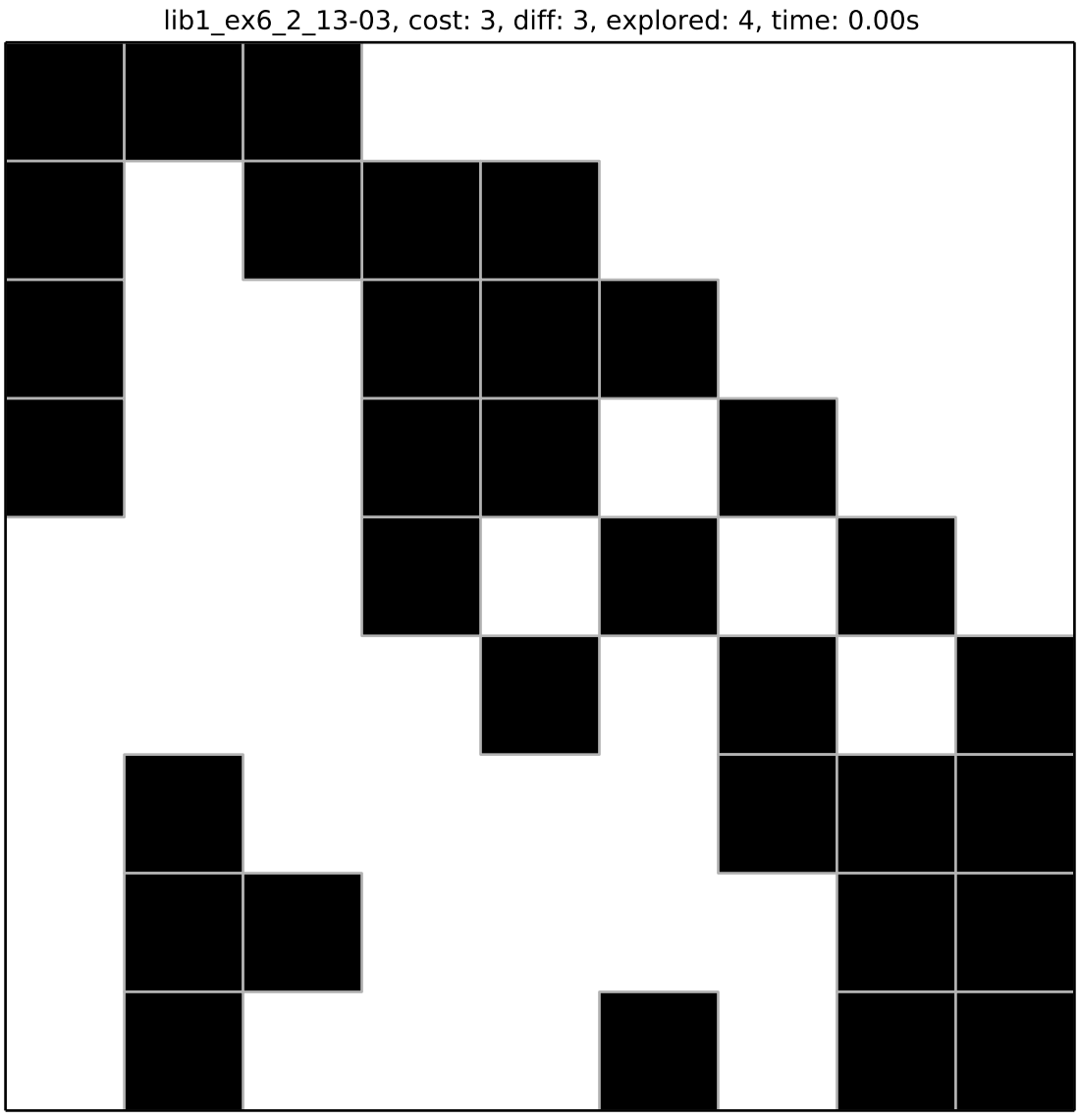
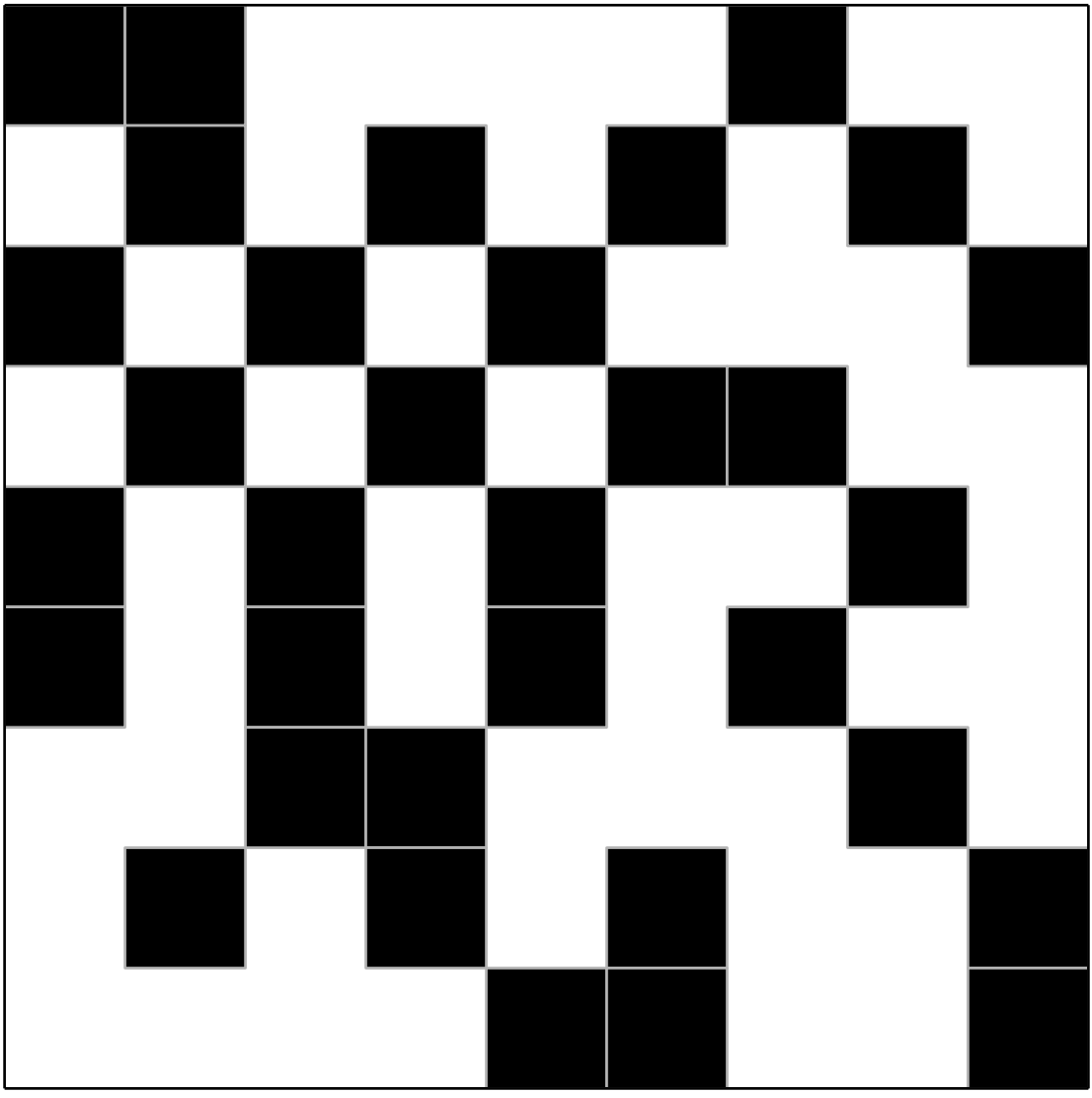


lib1_ex6_2_13-03 9x9 (33) con: 3, var: 6




lib1_ex6_2_13-03, cost: 3, diff: 3, explored: 4, time: 0.00s

lib1_ex6_2_13-04 9x9 (33) con: 3, var: 6



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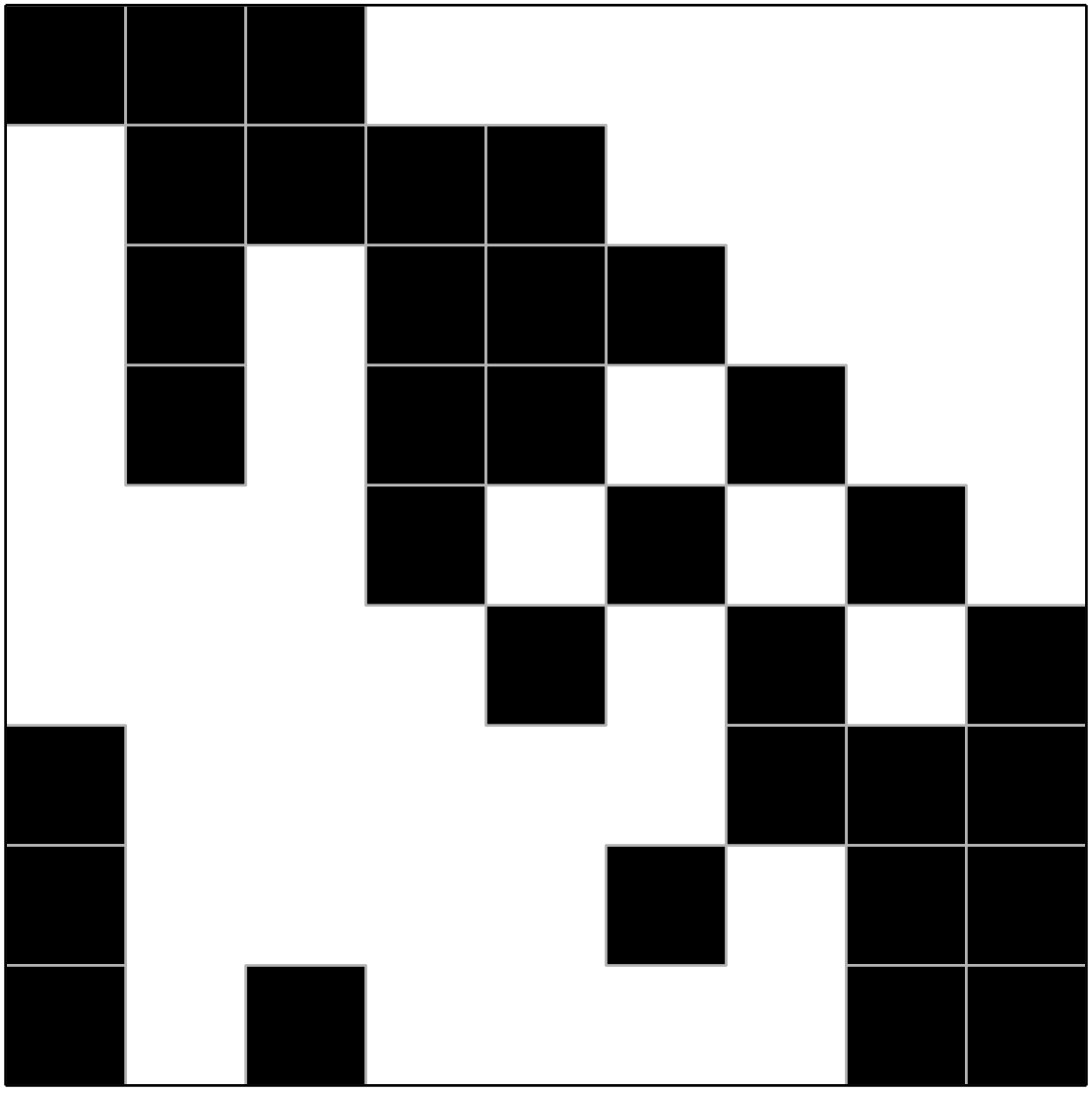
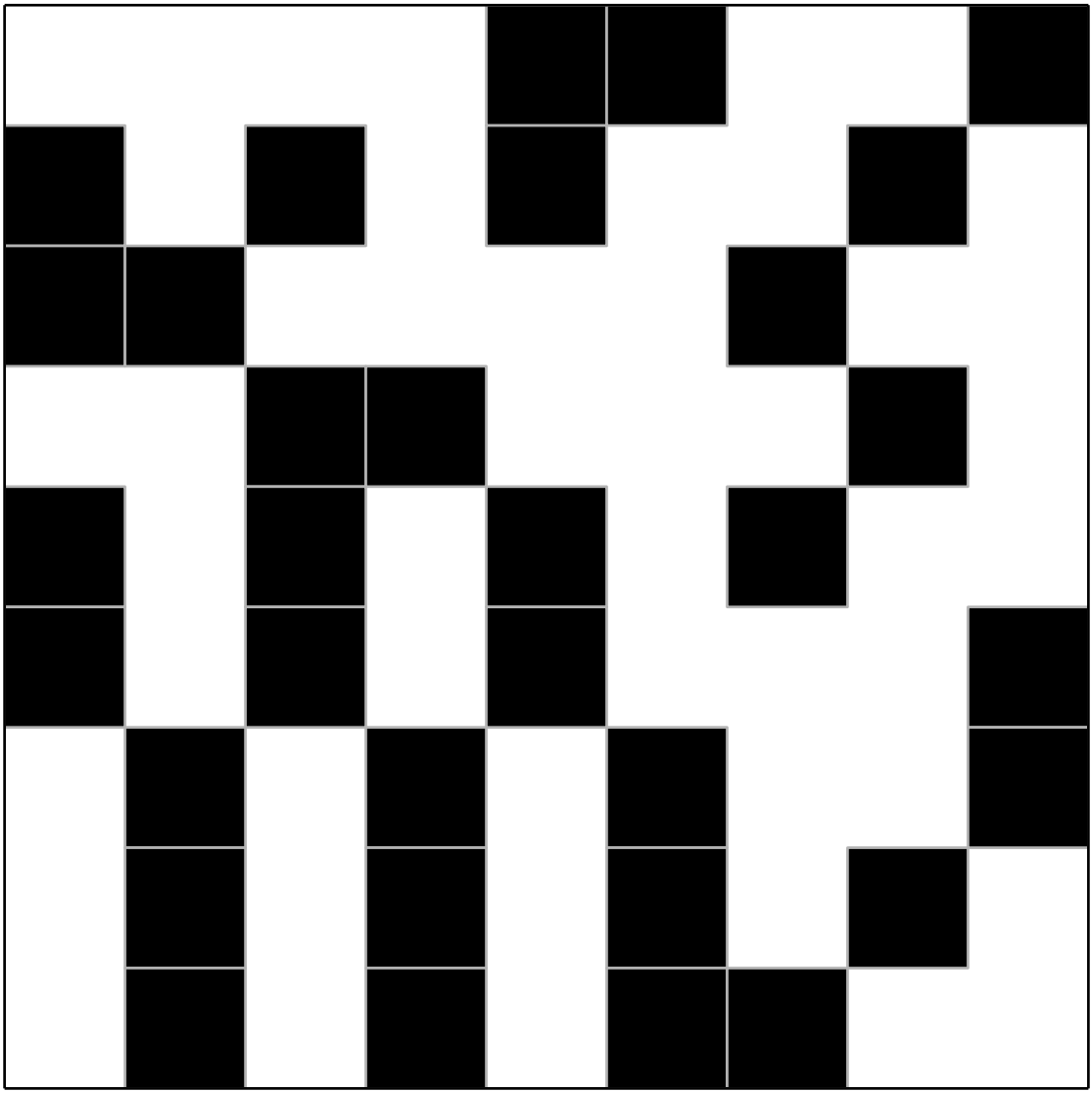
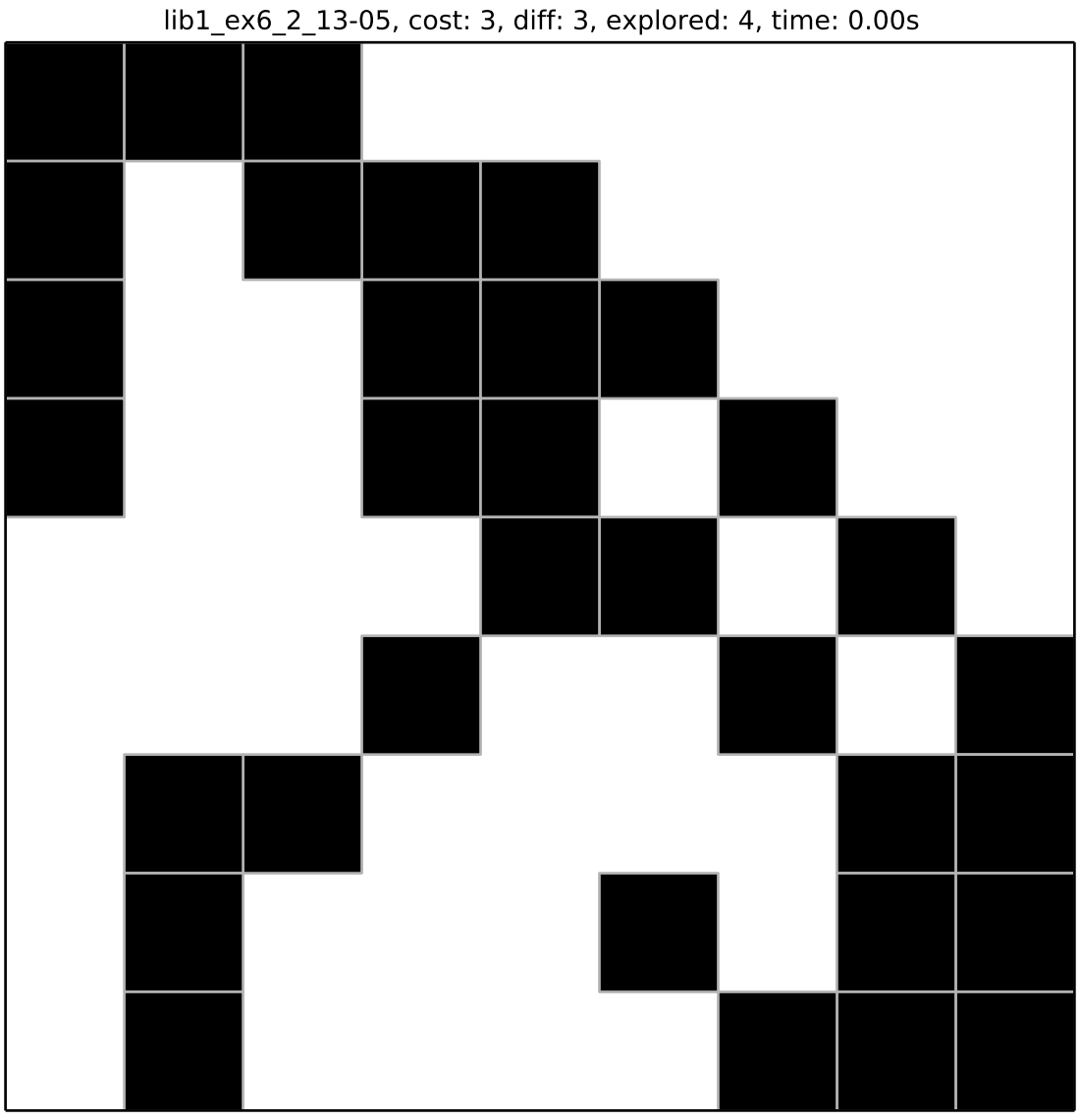


lib1_ex6_2_13-05 9x9 (33) con: 3, var: 6

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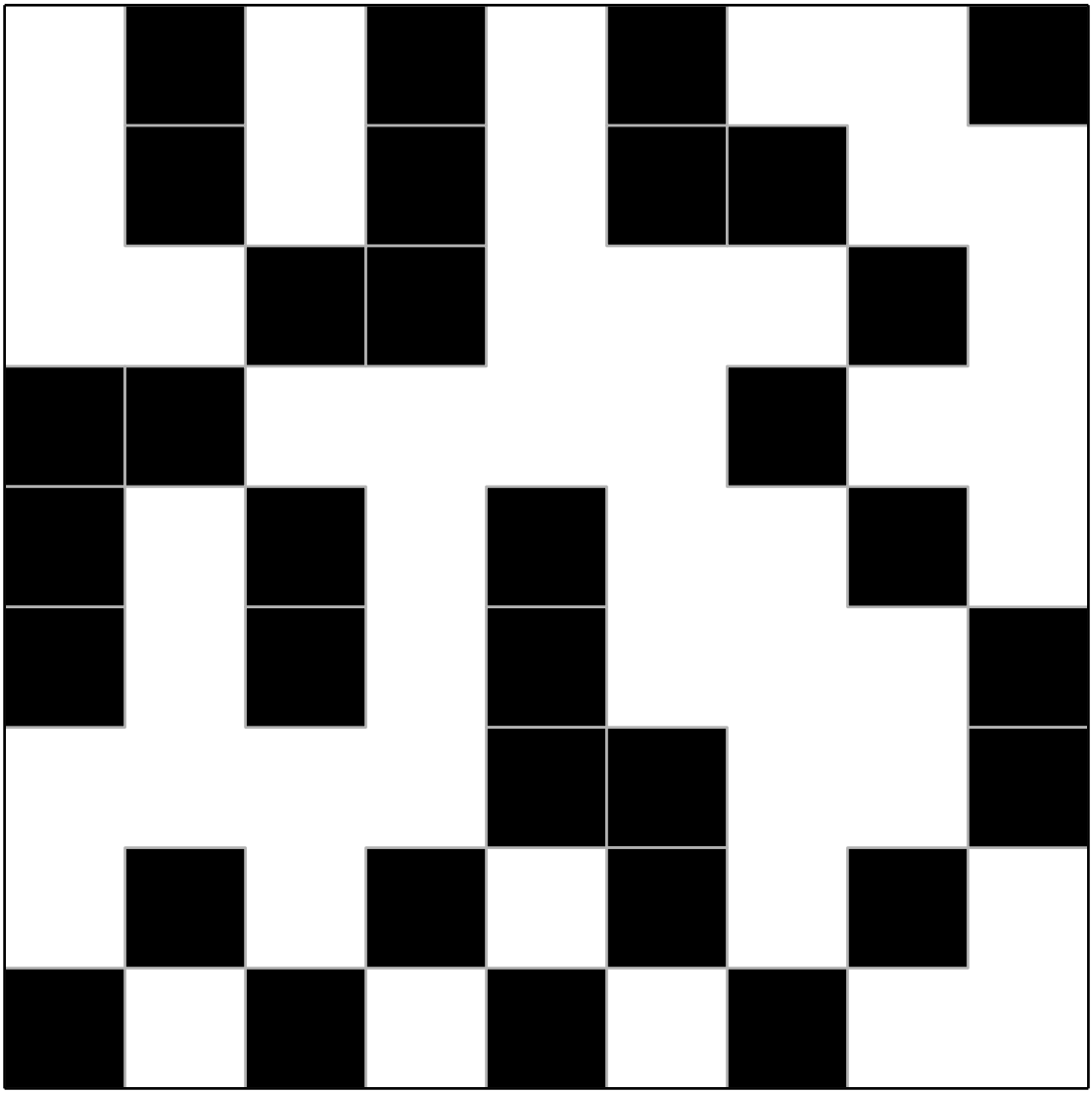
lib1_ex6_2_13-06 9x9 (33) con: 3, var: 6



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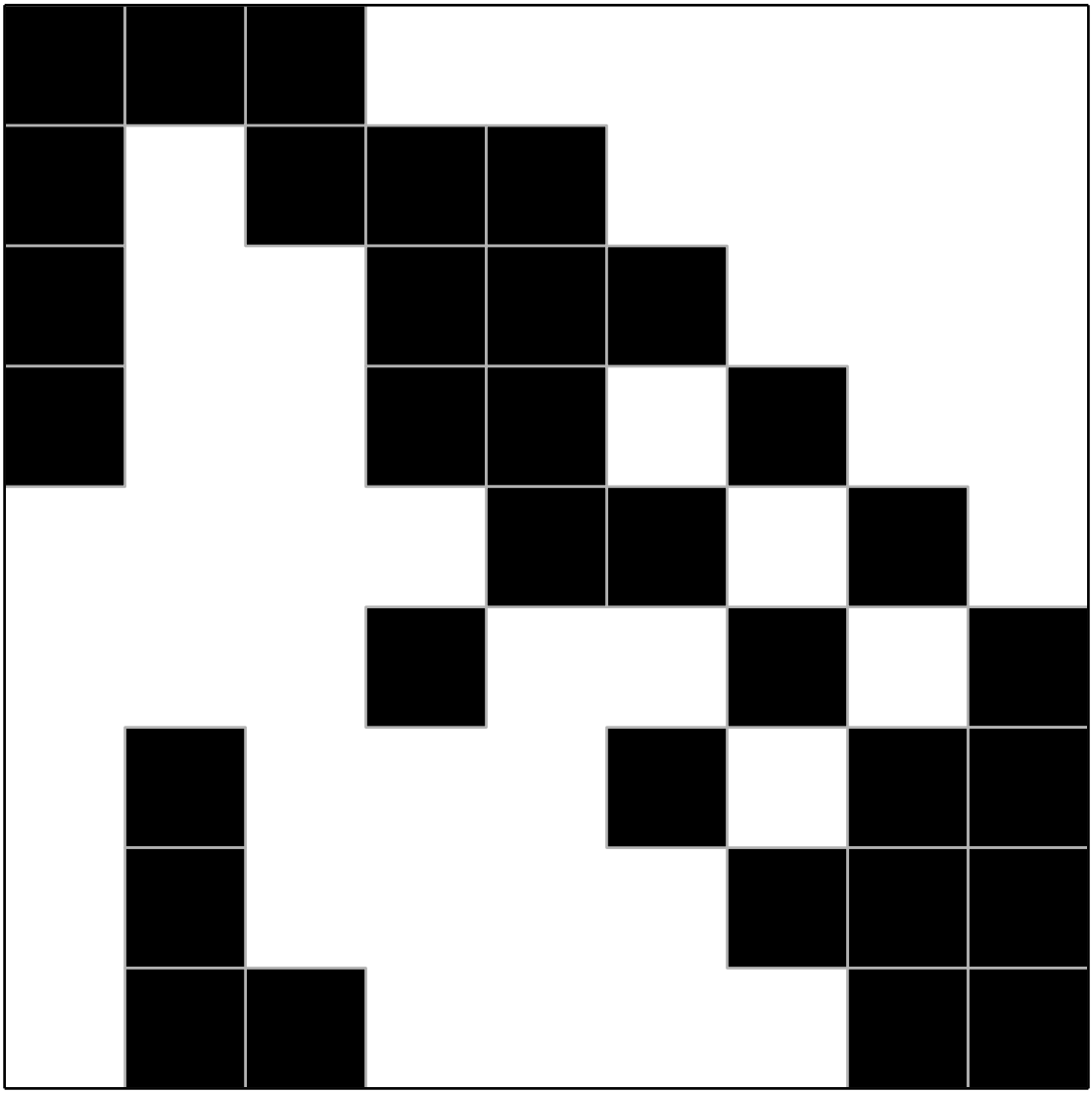
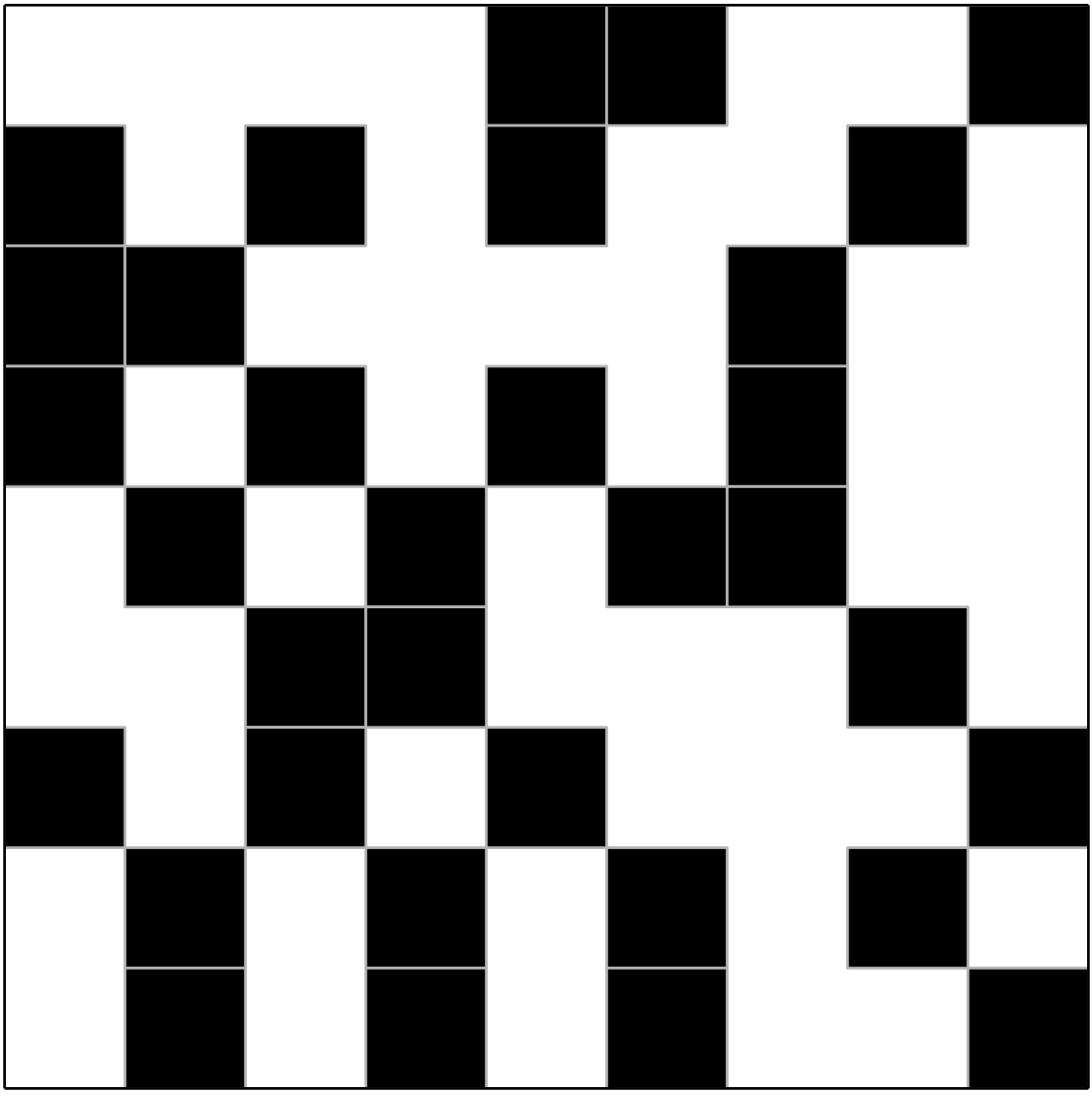


lib1_ex6_2_13-07 9x9 (33) con: 3, var: 6



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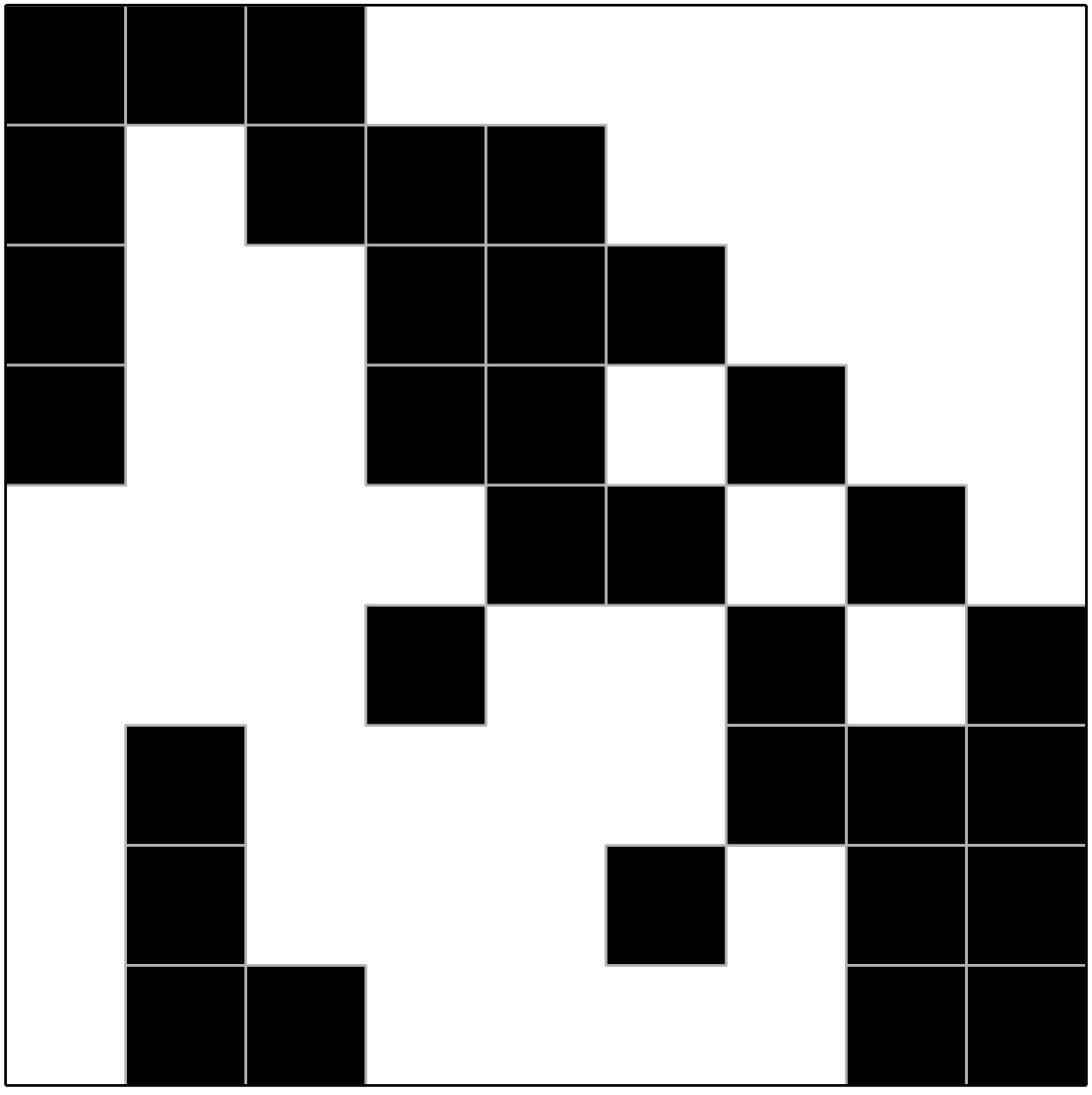
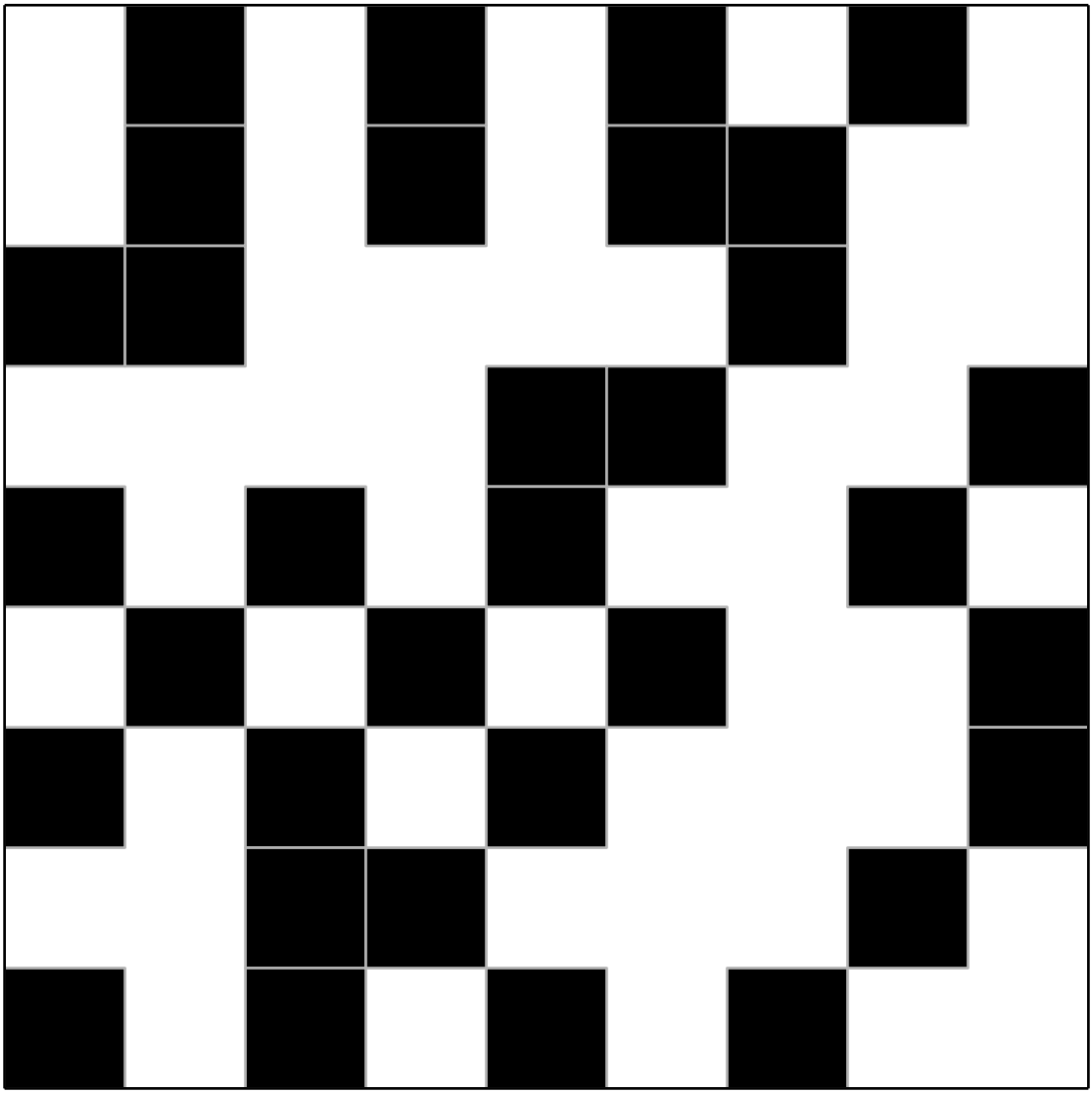
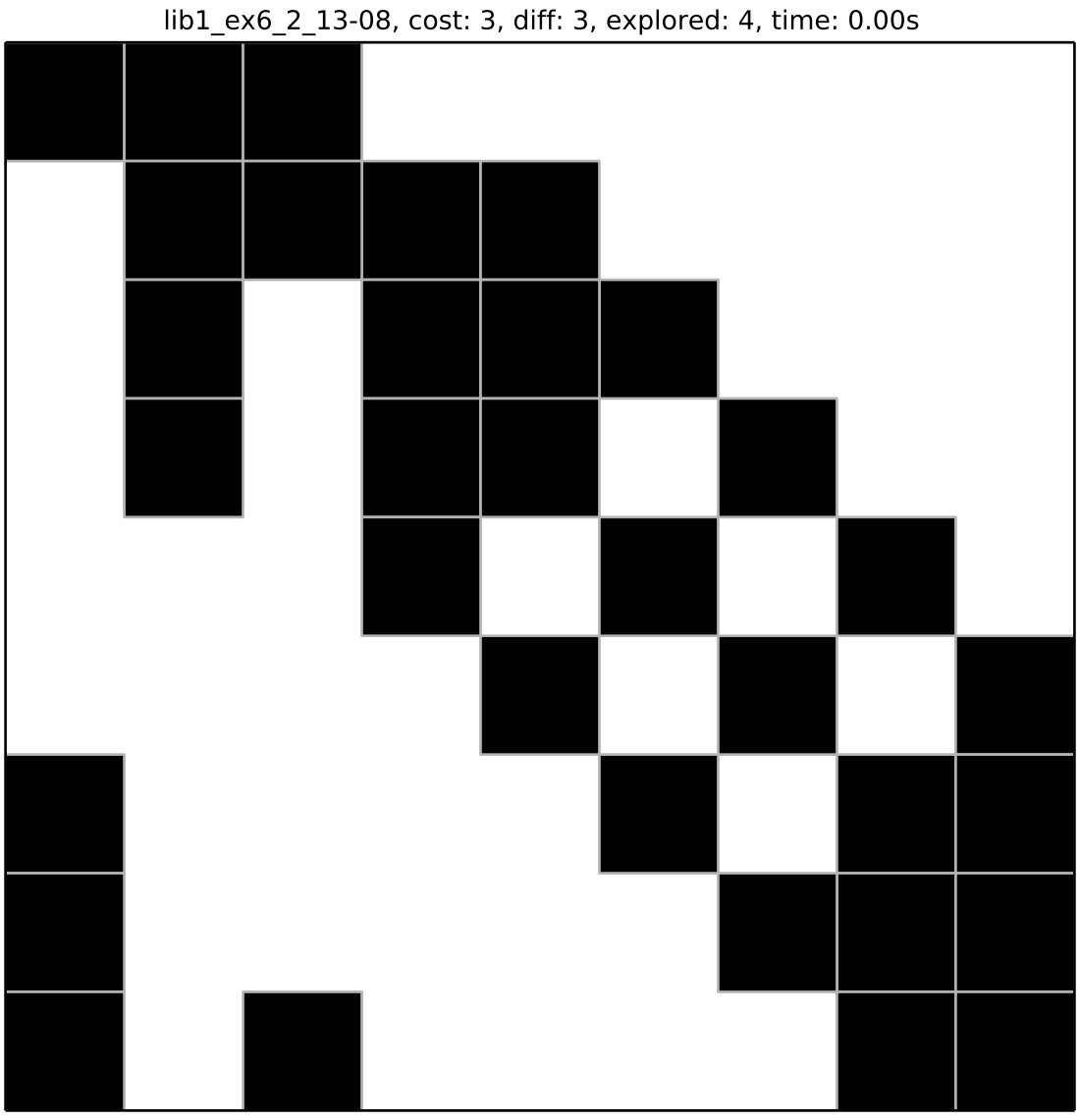


lib1_ex6_2_13-08 9x9 (33) con: 3, var: 6

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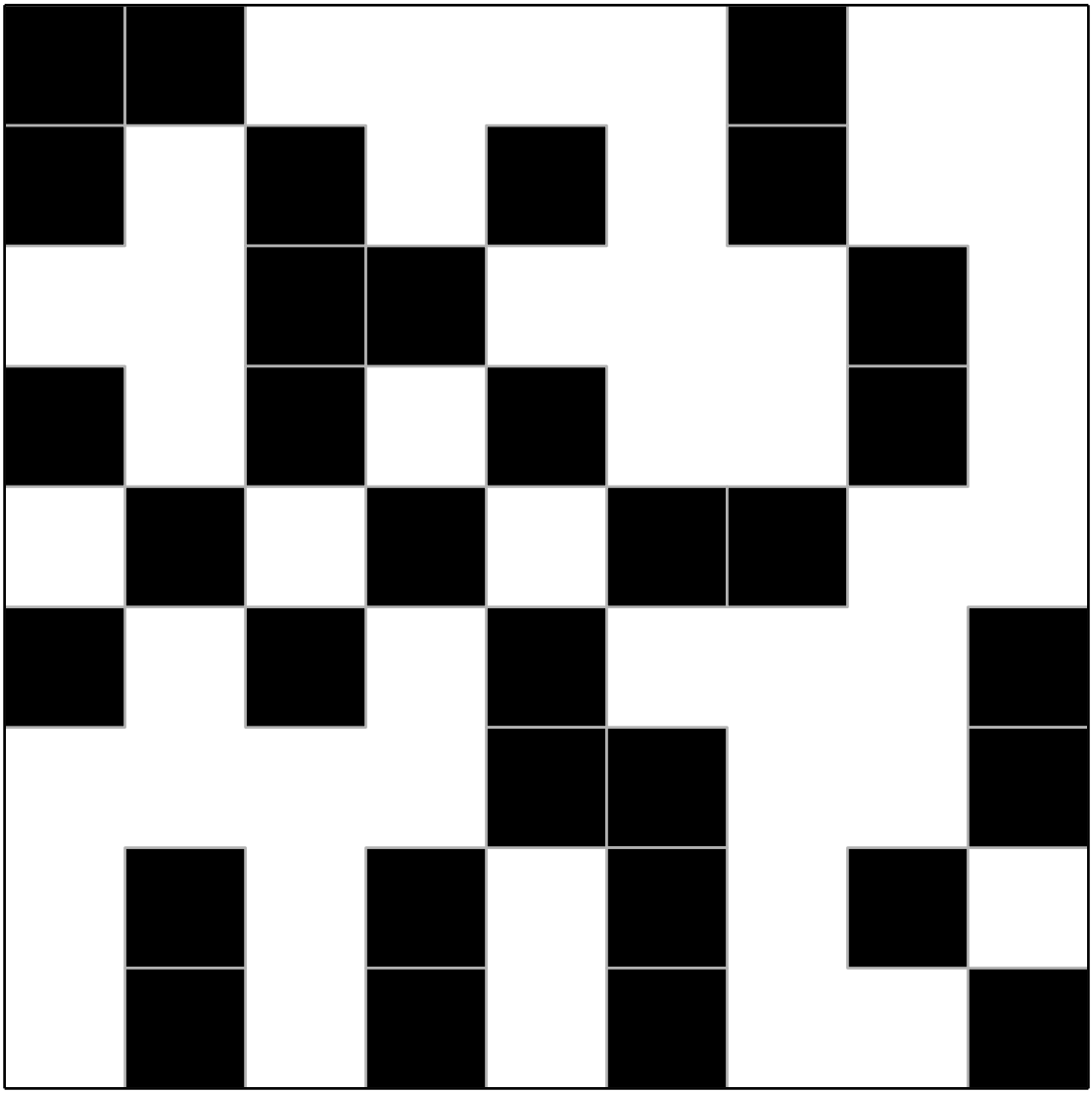
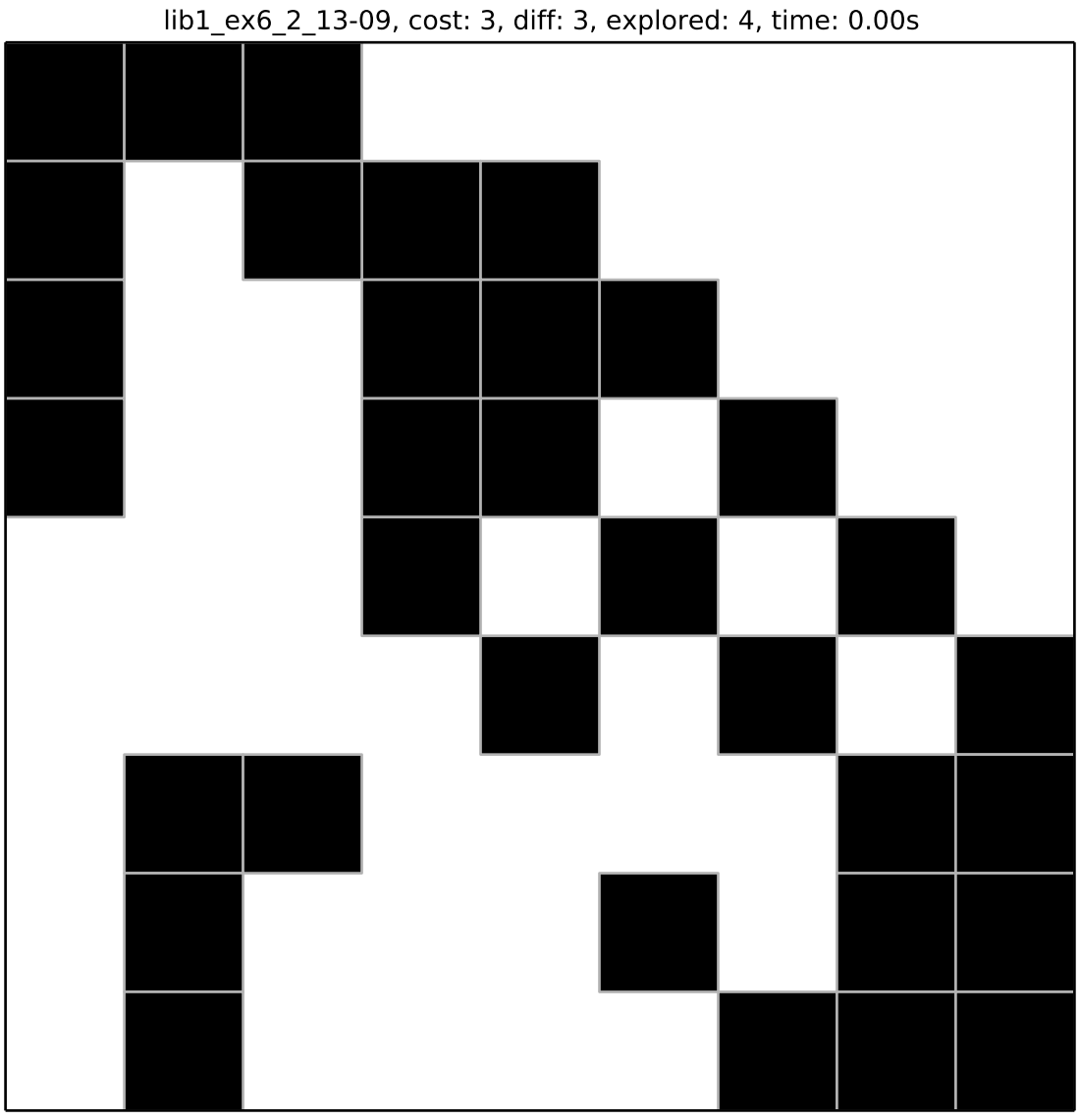
lib1_ex6_2_13-09 9x9 (33) con: 3, var: 6

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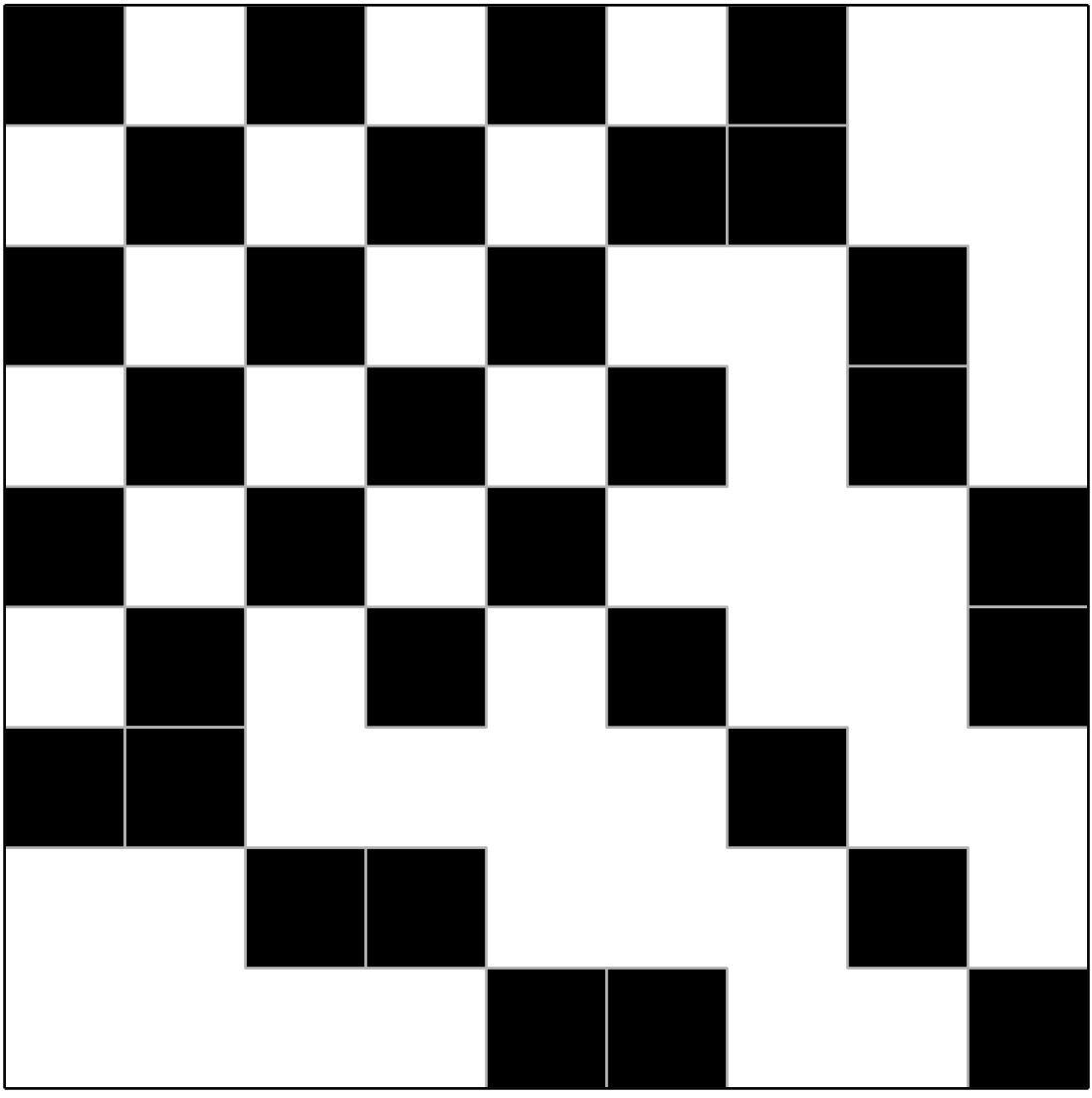
lib1_ex6_2_13-IN 9x9 (33) con: 3, var: 6



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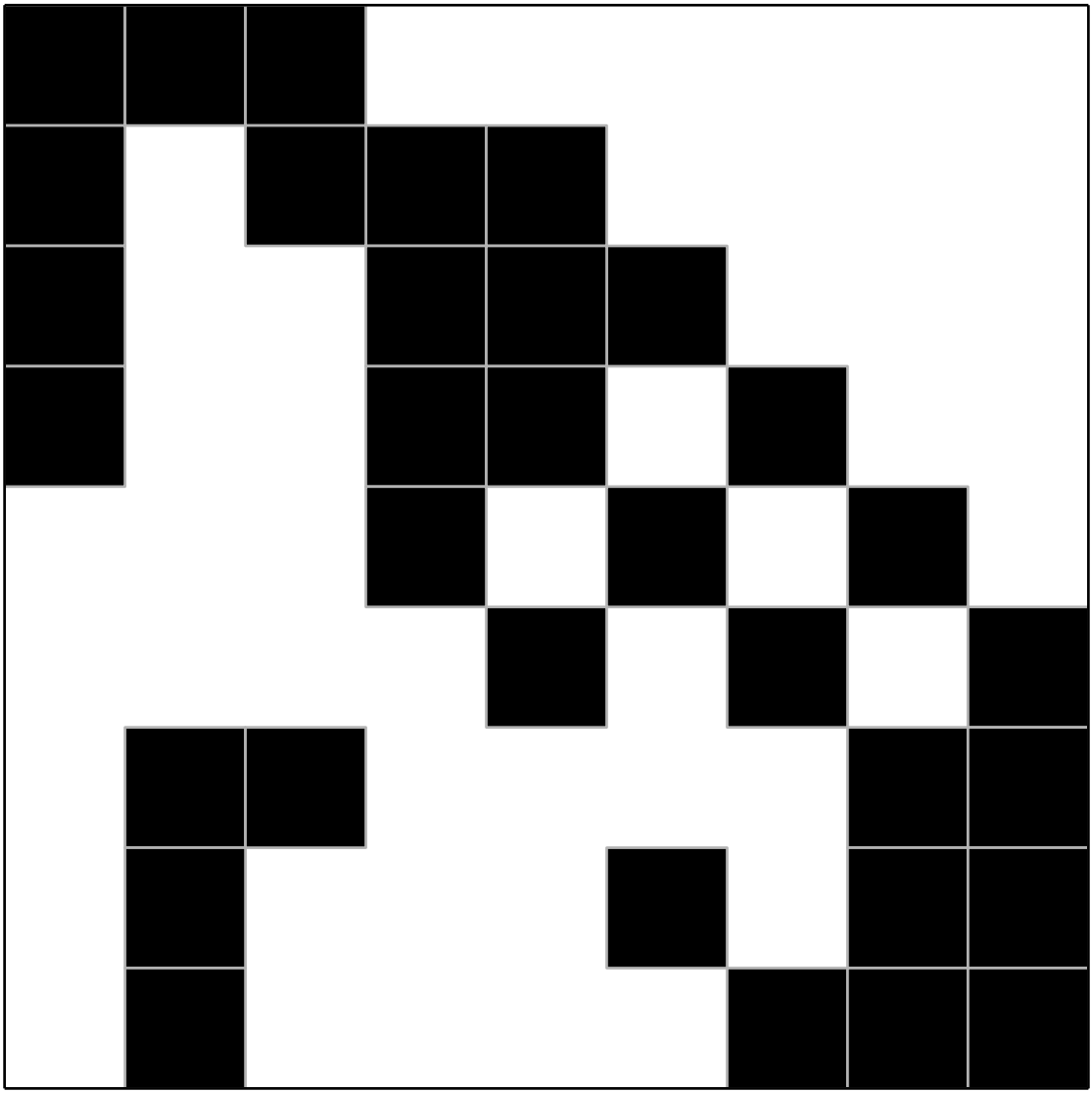
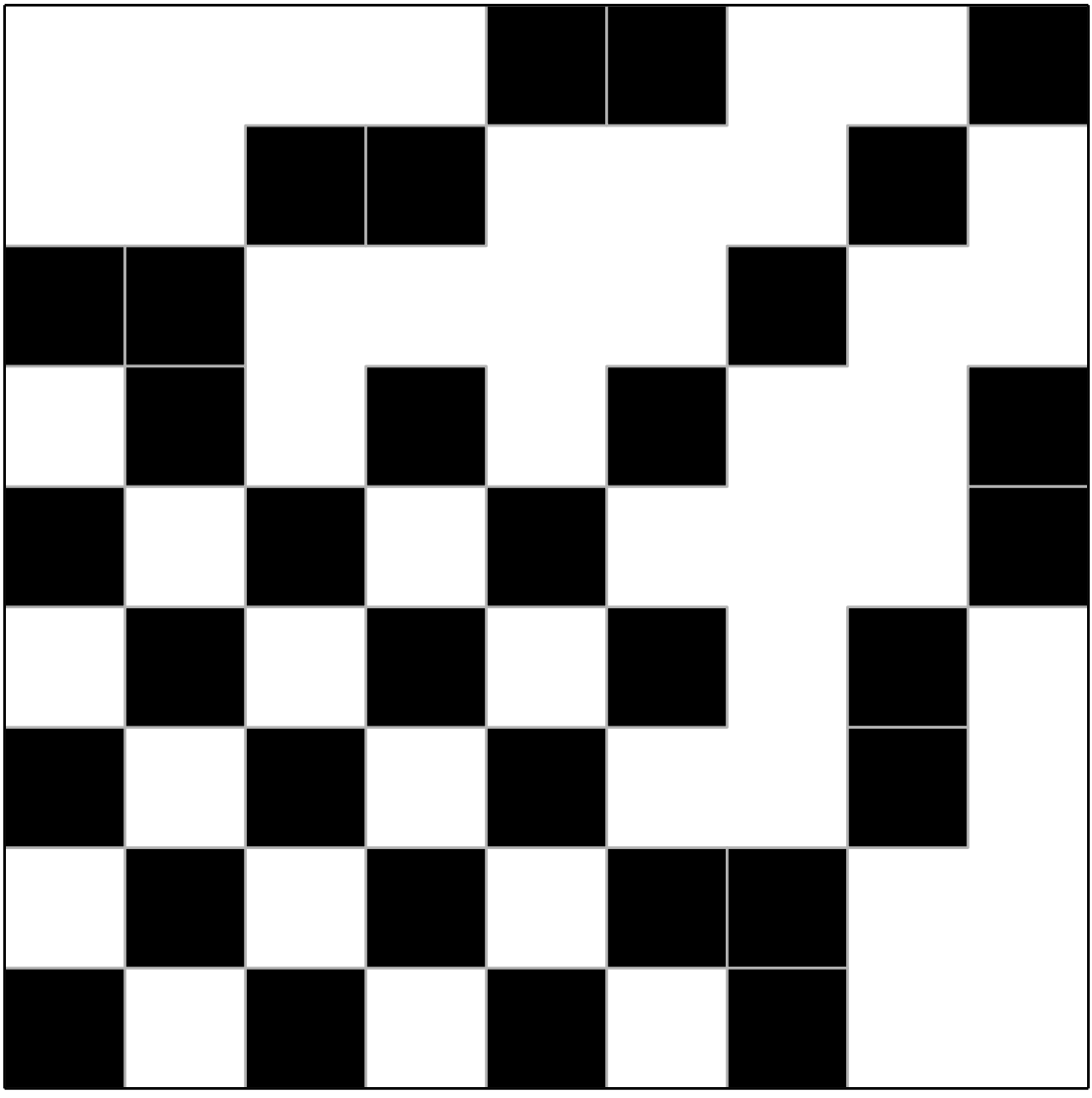


lib1_ex6_2_13-RE 9x9 (33) con: 3, var: 6



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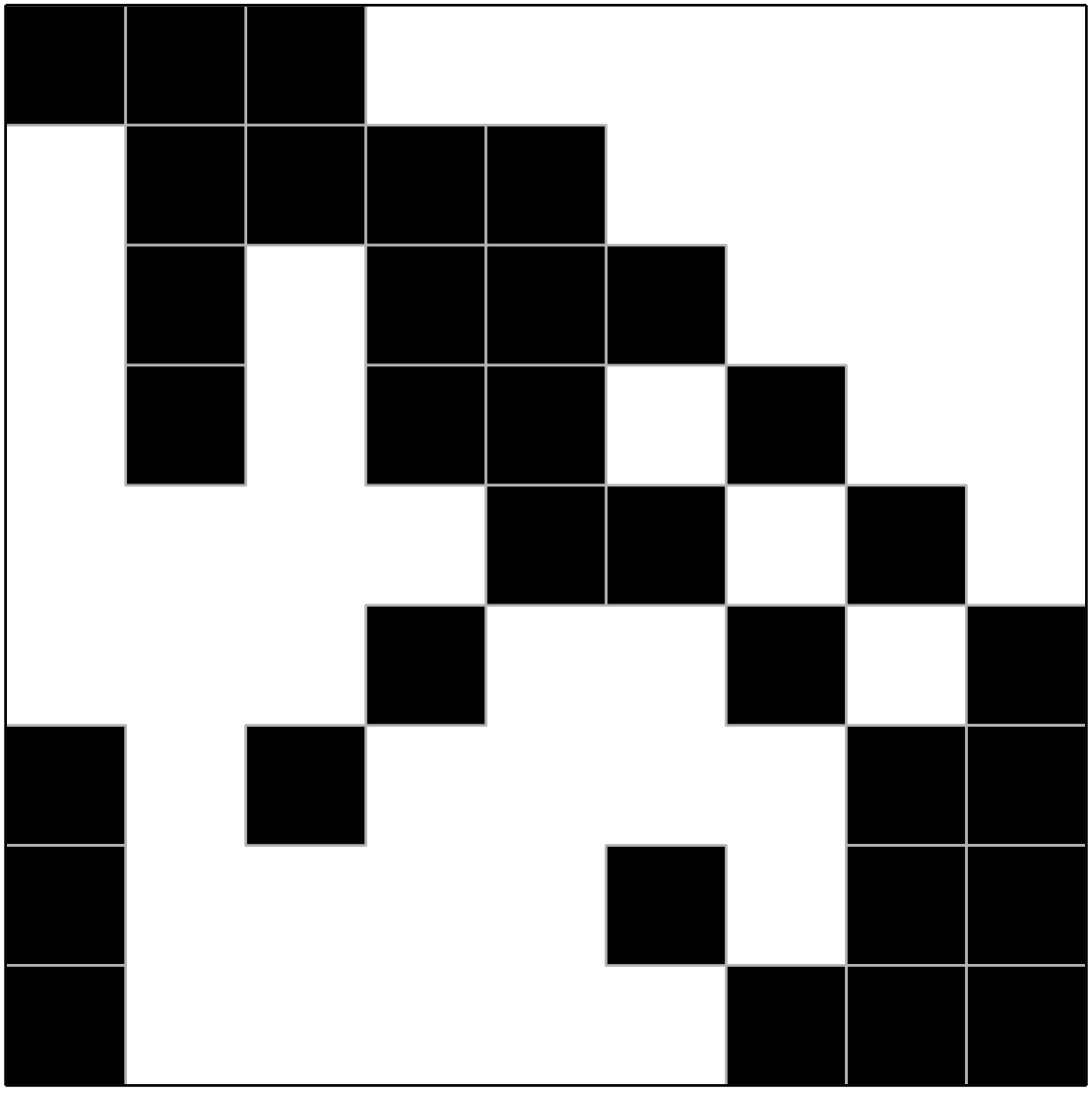
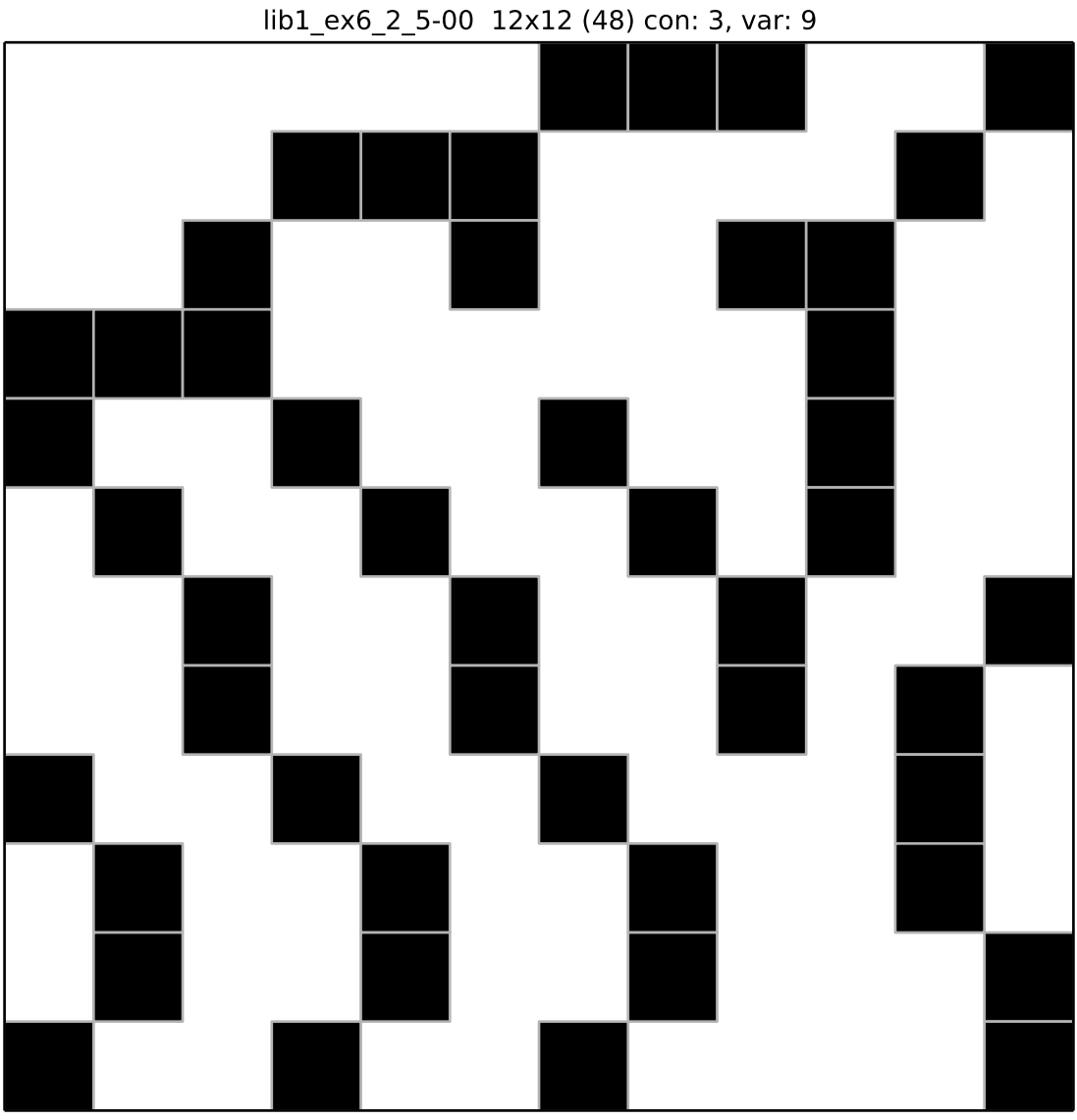
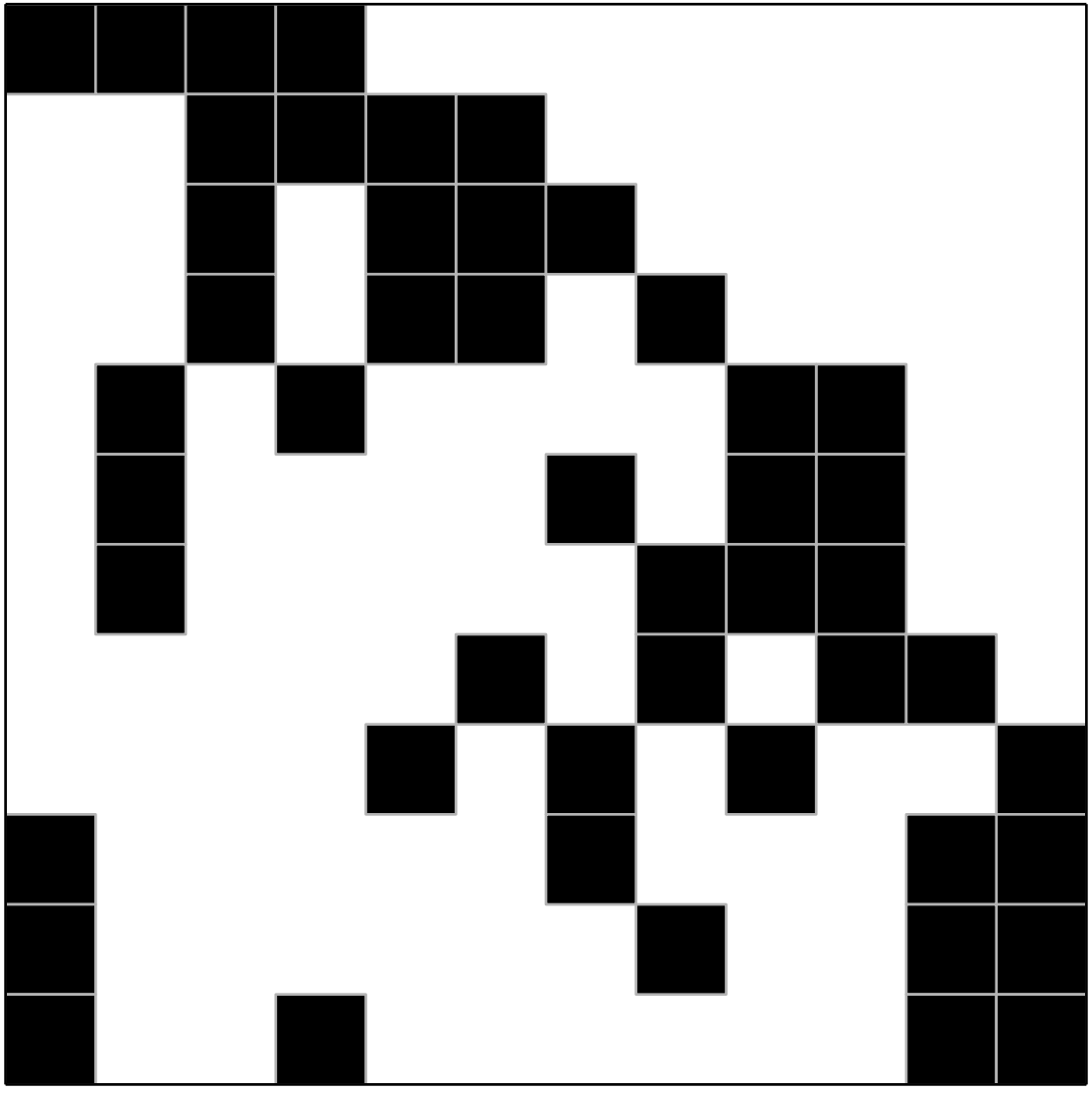
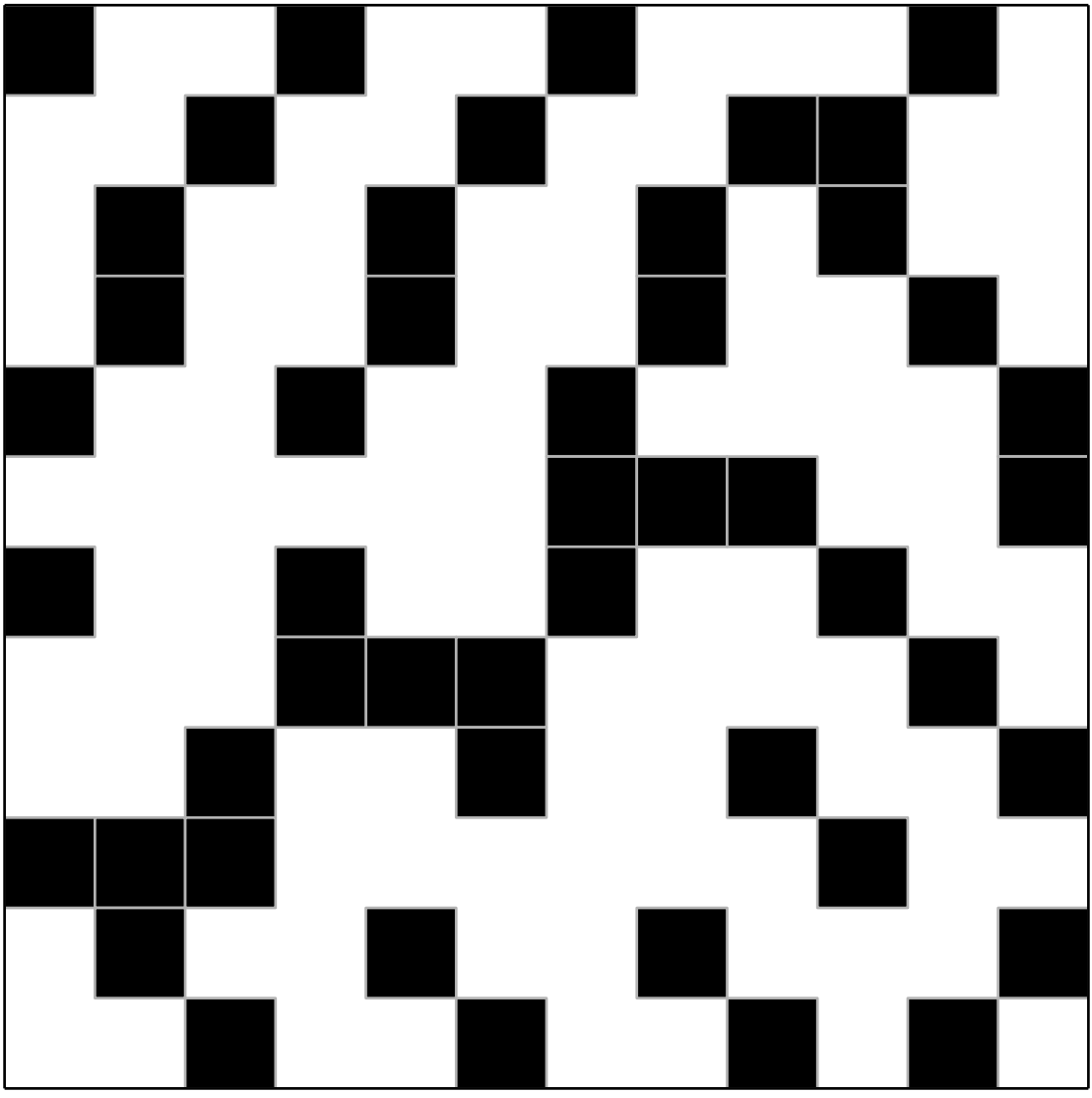



lib1_ex6_2_5-00 12x12 (48) con: 3, var: 9

lib1_ex6_2_5-00, cost: 5, diff: 5, explored: 25, time: 0.00s



lib1_ex6_2_5-01 12x12 (48) con: 3, var: 9



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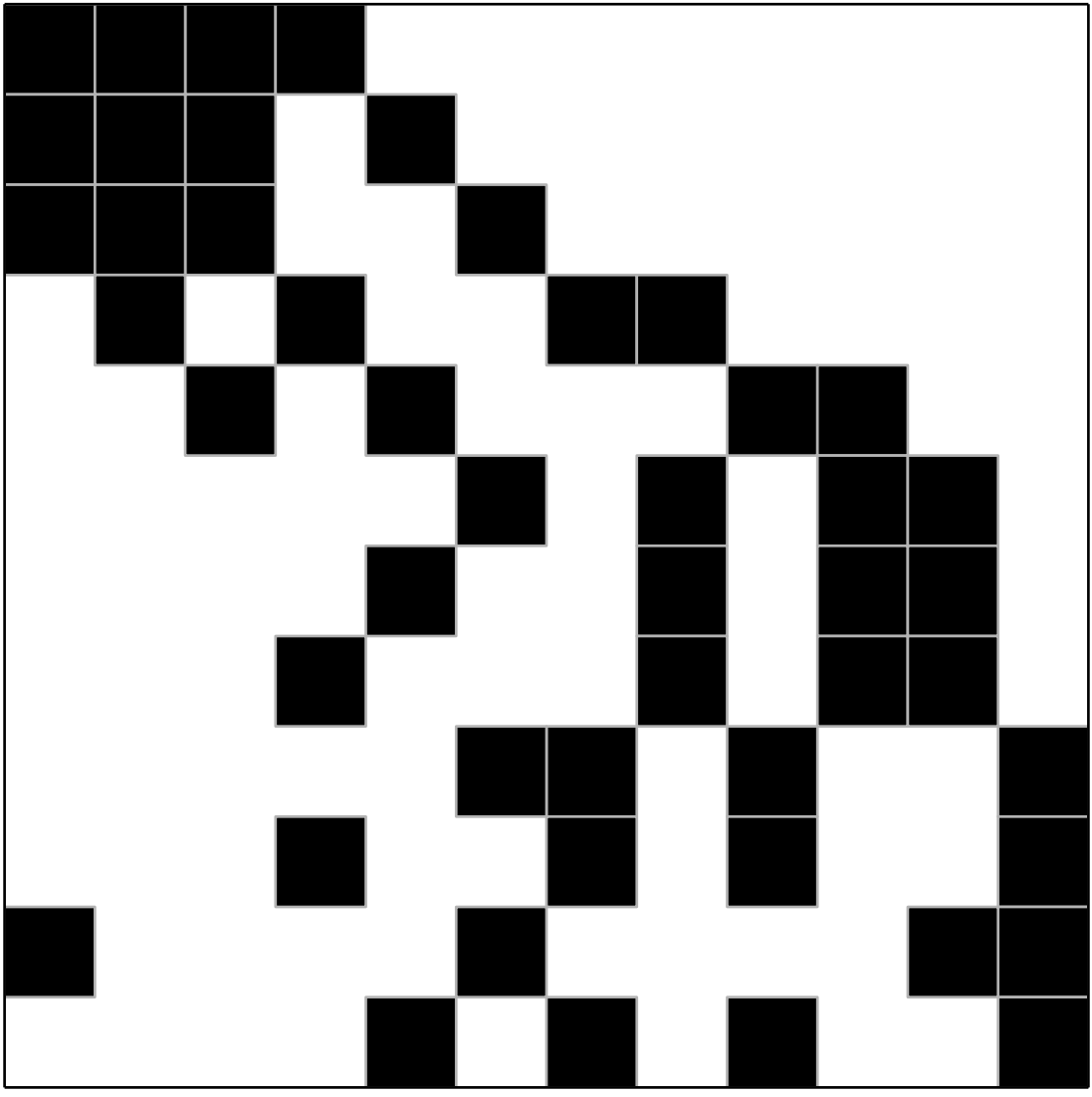
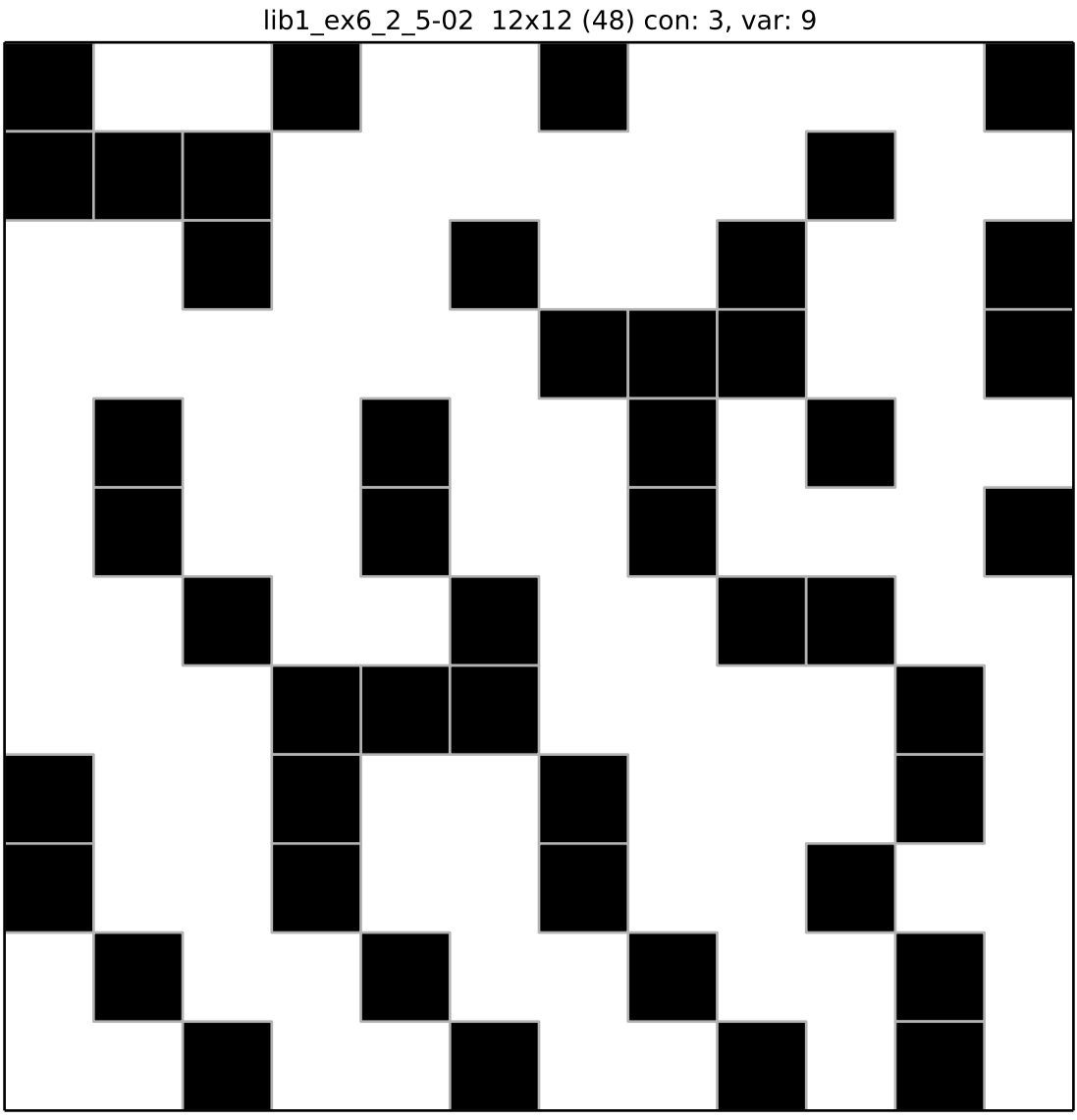
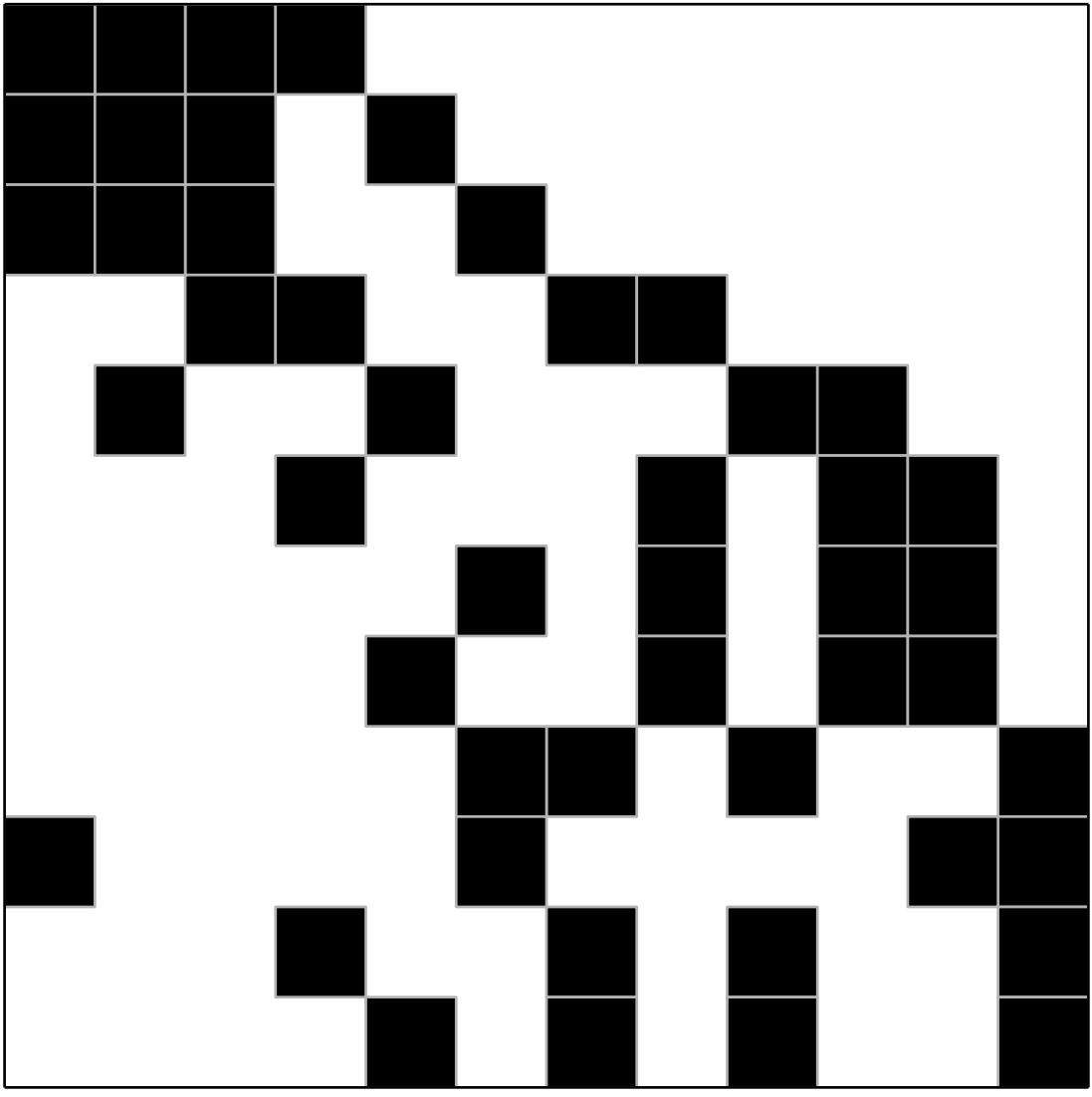
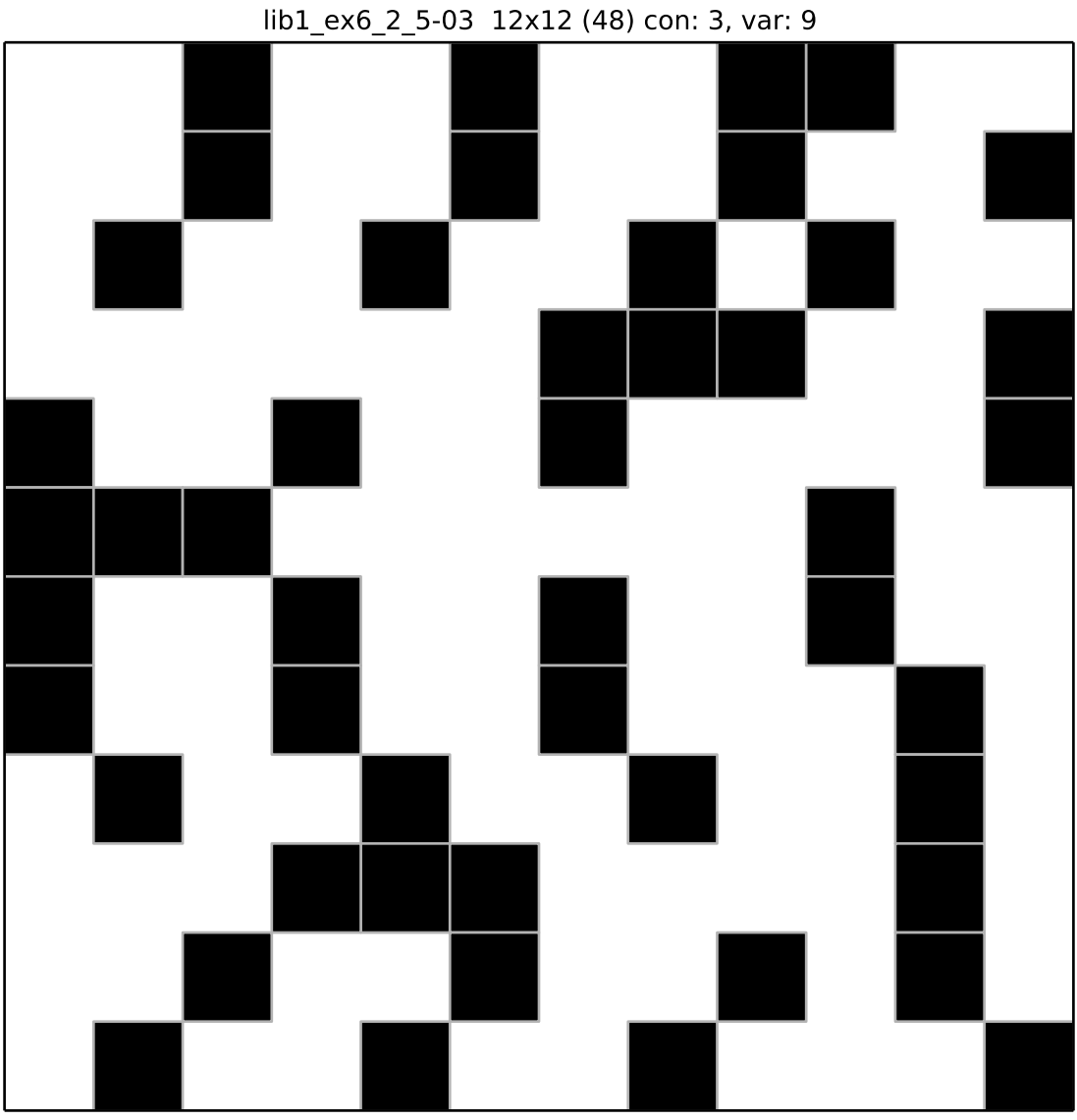



lib1_ex6_2_5-02 12x12 (48) con: 3, var: 9

lib1_ex6_2_5-02, cost: 5, diff: 5, explored: 25, time: 0.00s

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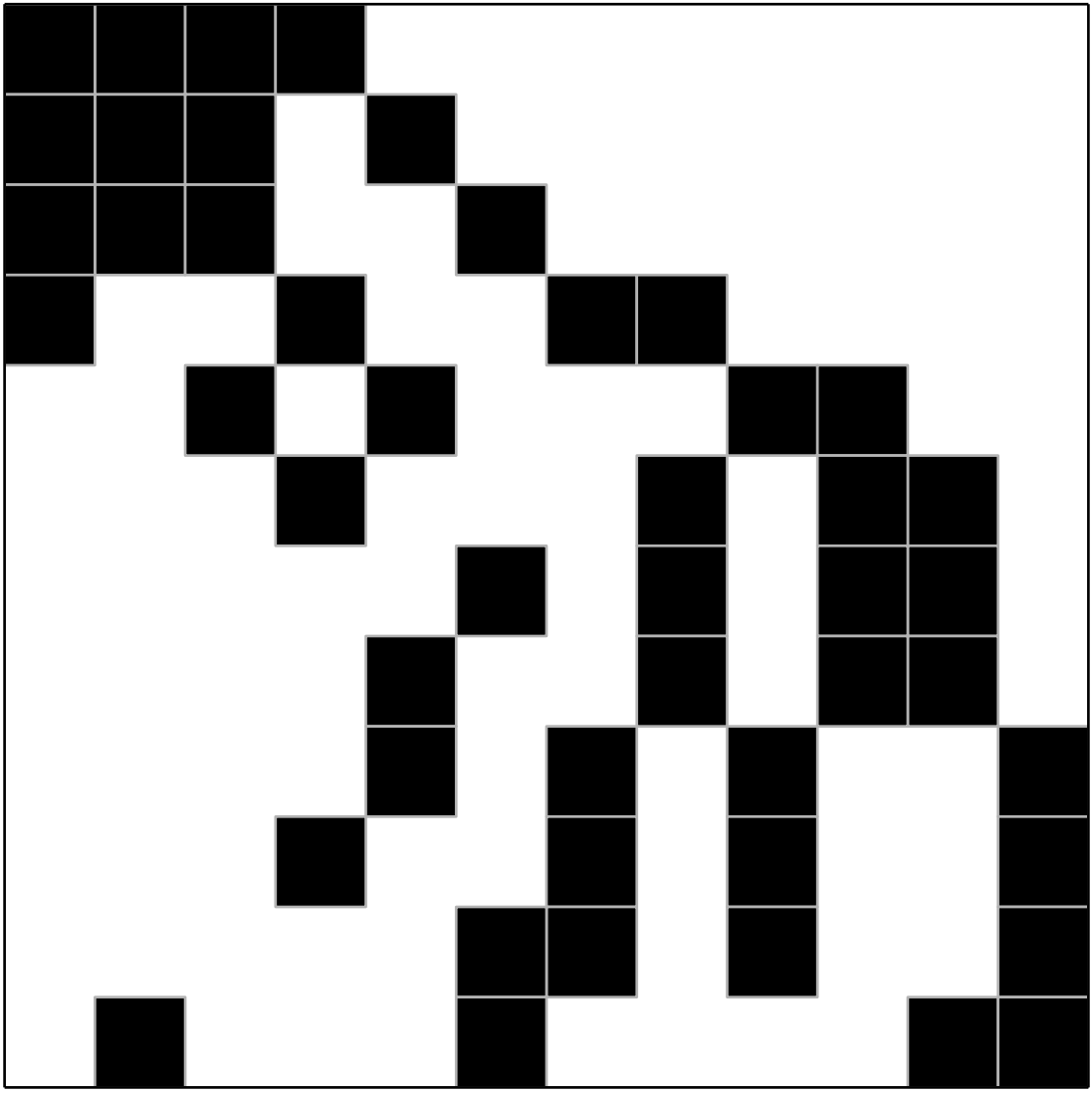
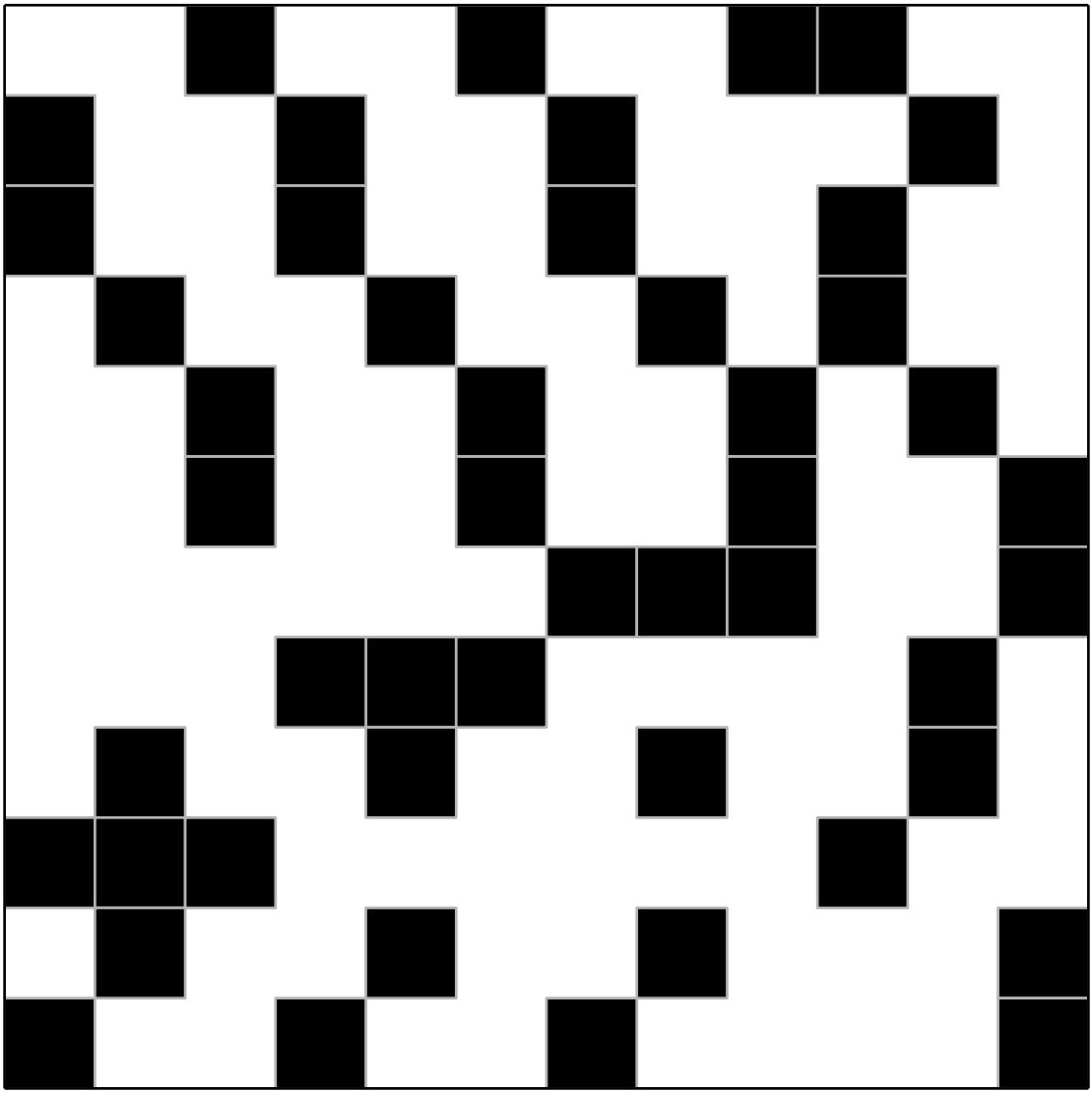


lib1_ex6_2_5-04 12x12 (48) con: 3, var: 9



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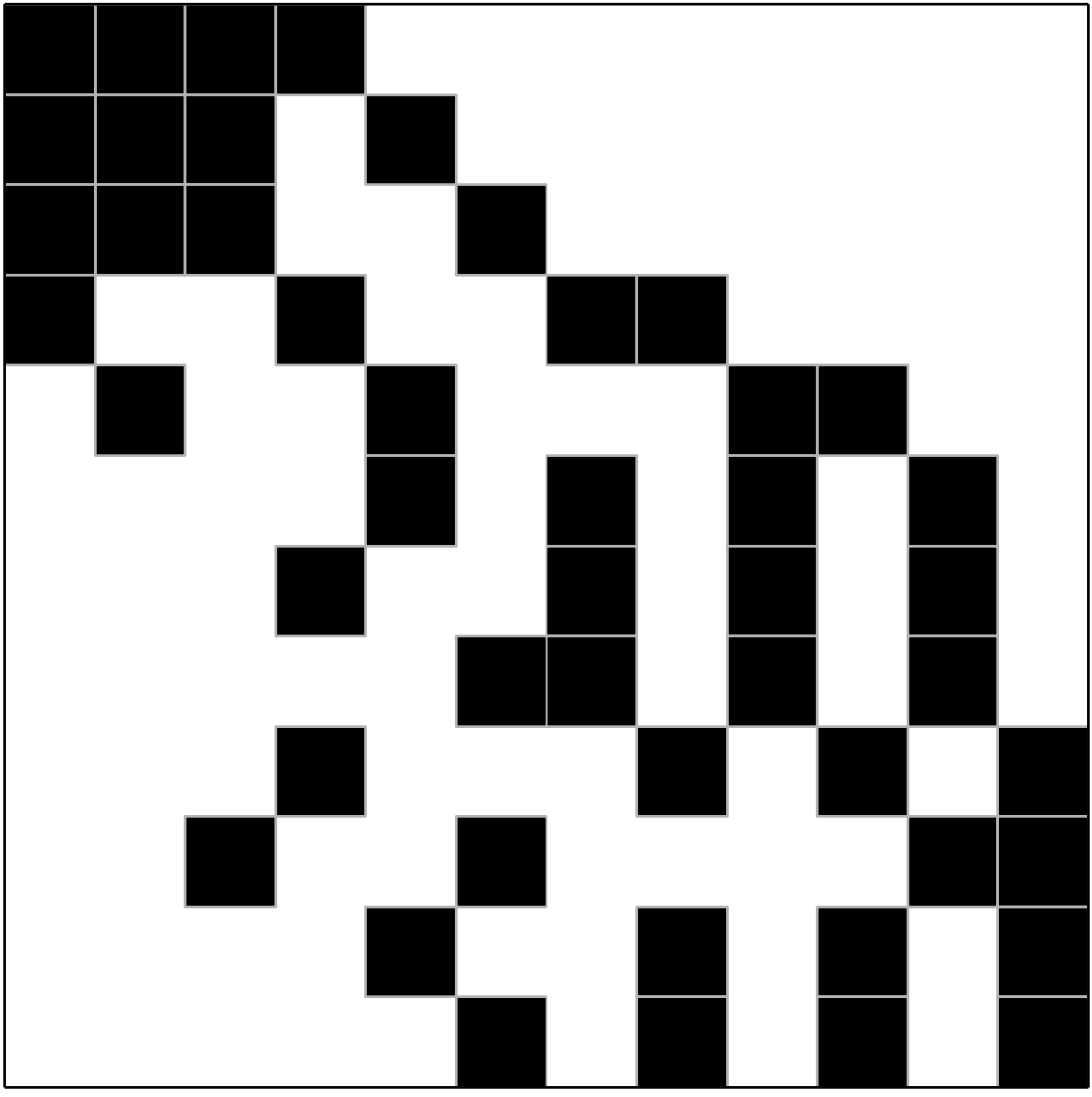

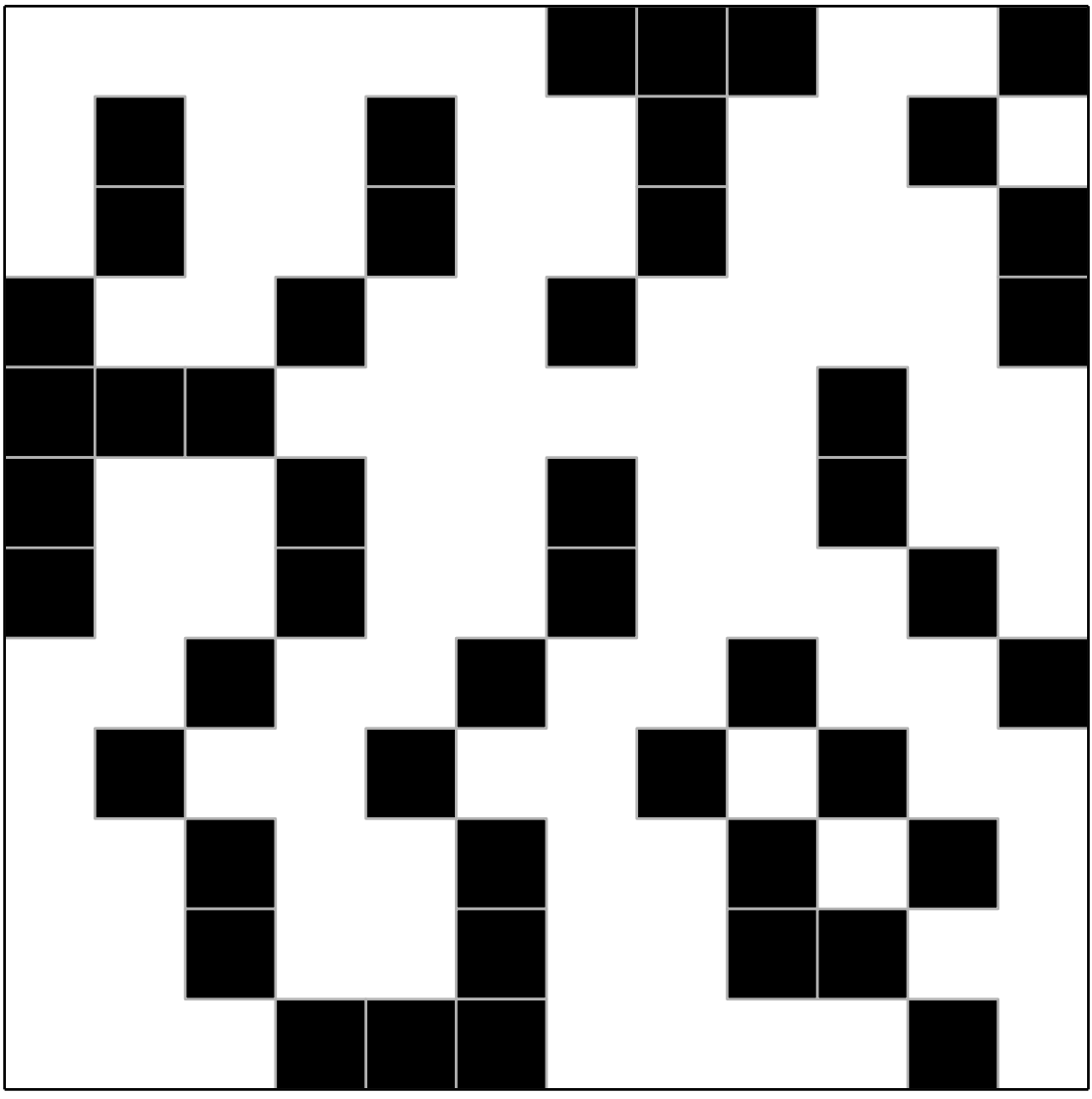
lib1_ex6_2_5-05 12x12 (48) con: 3, var: 9

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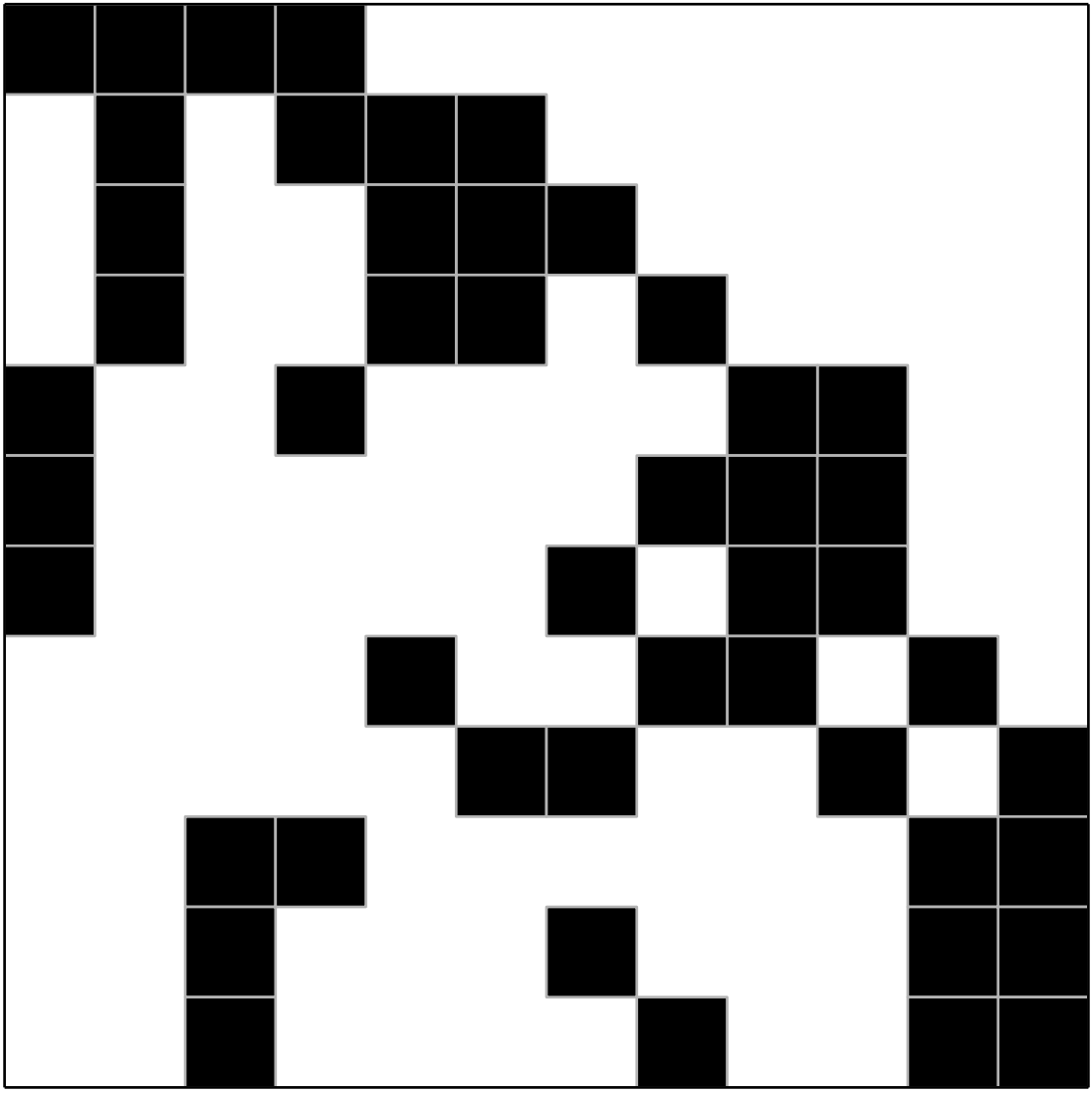

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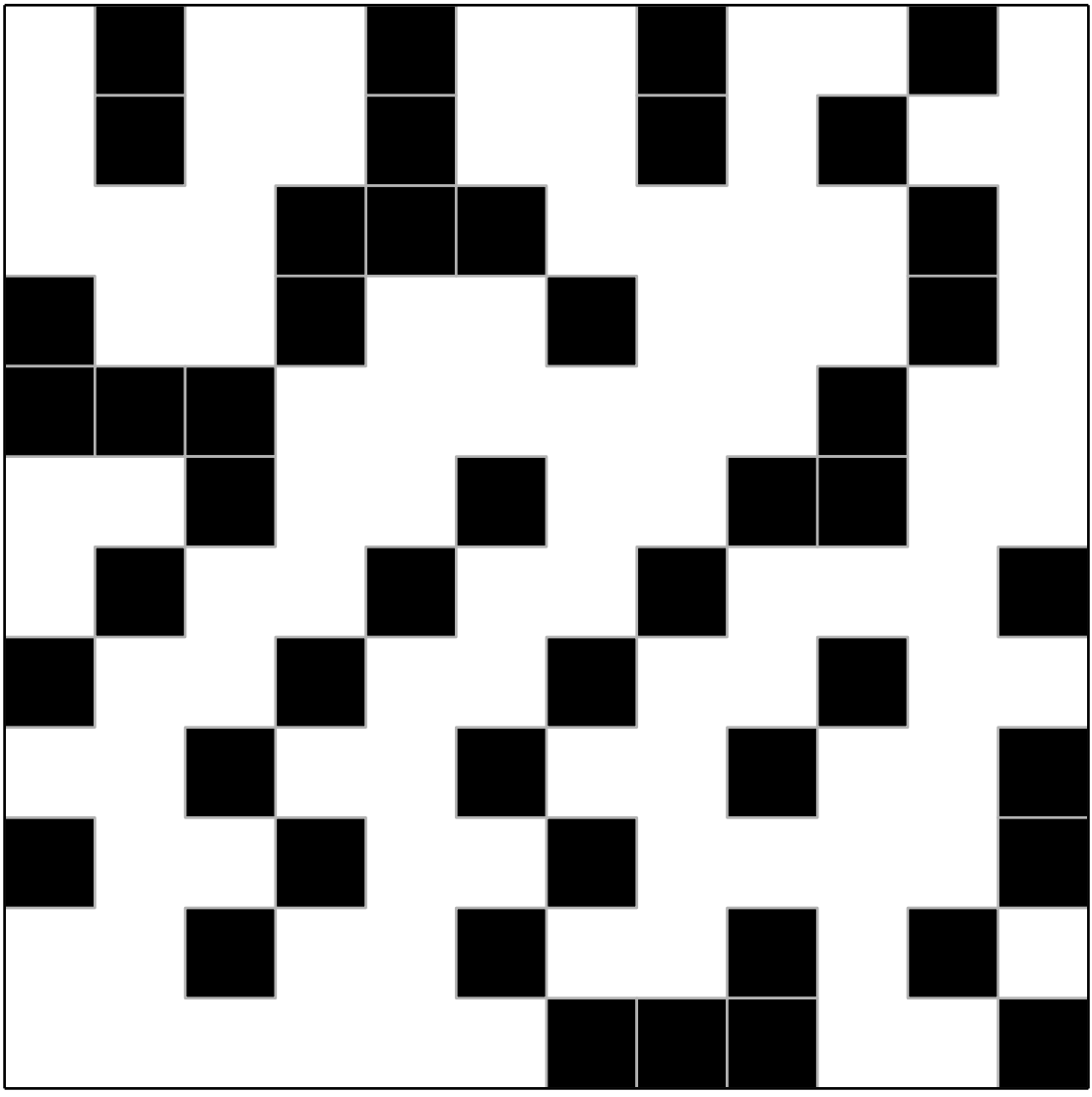

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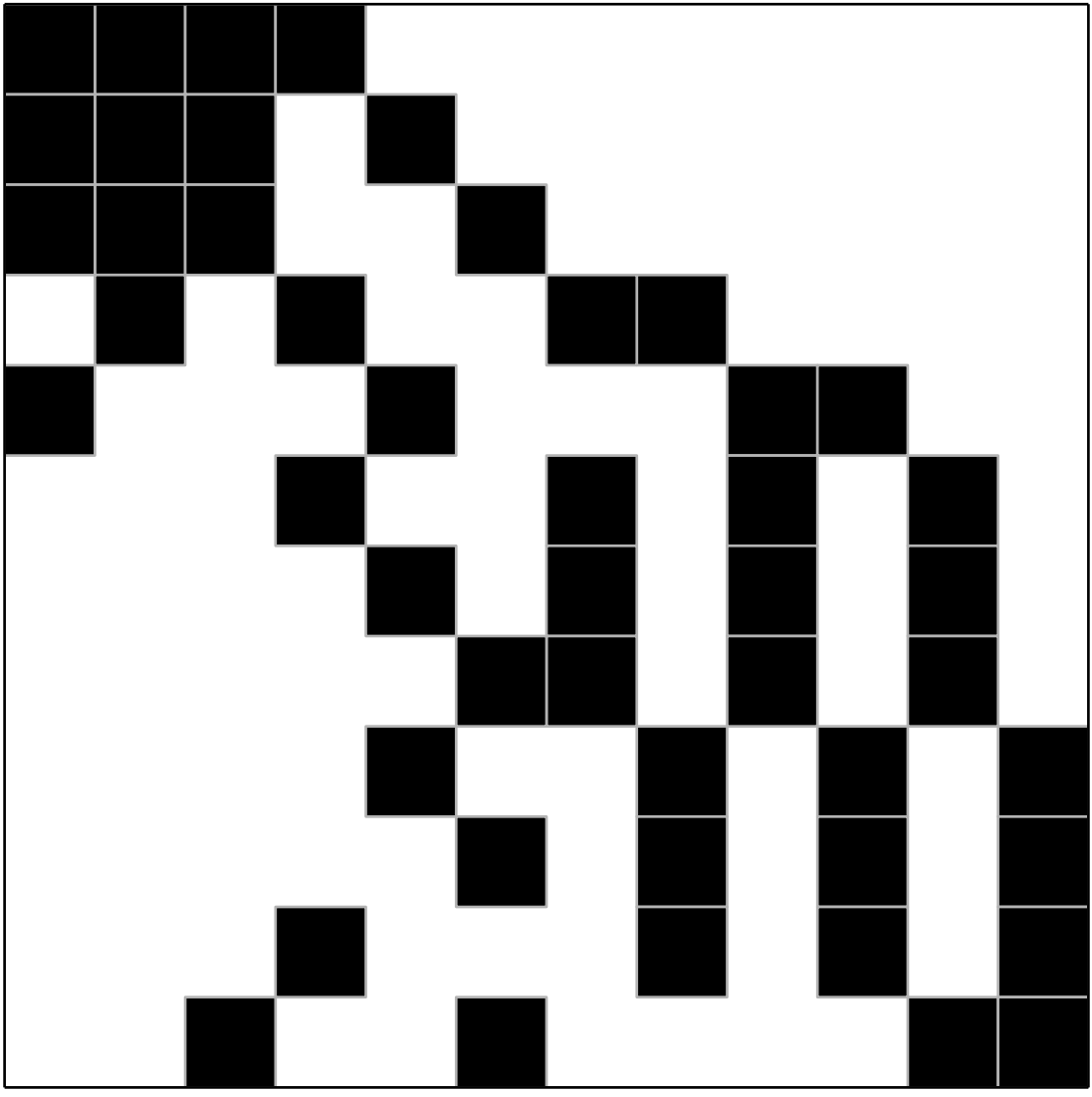

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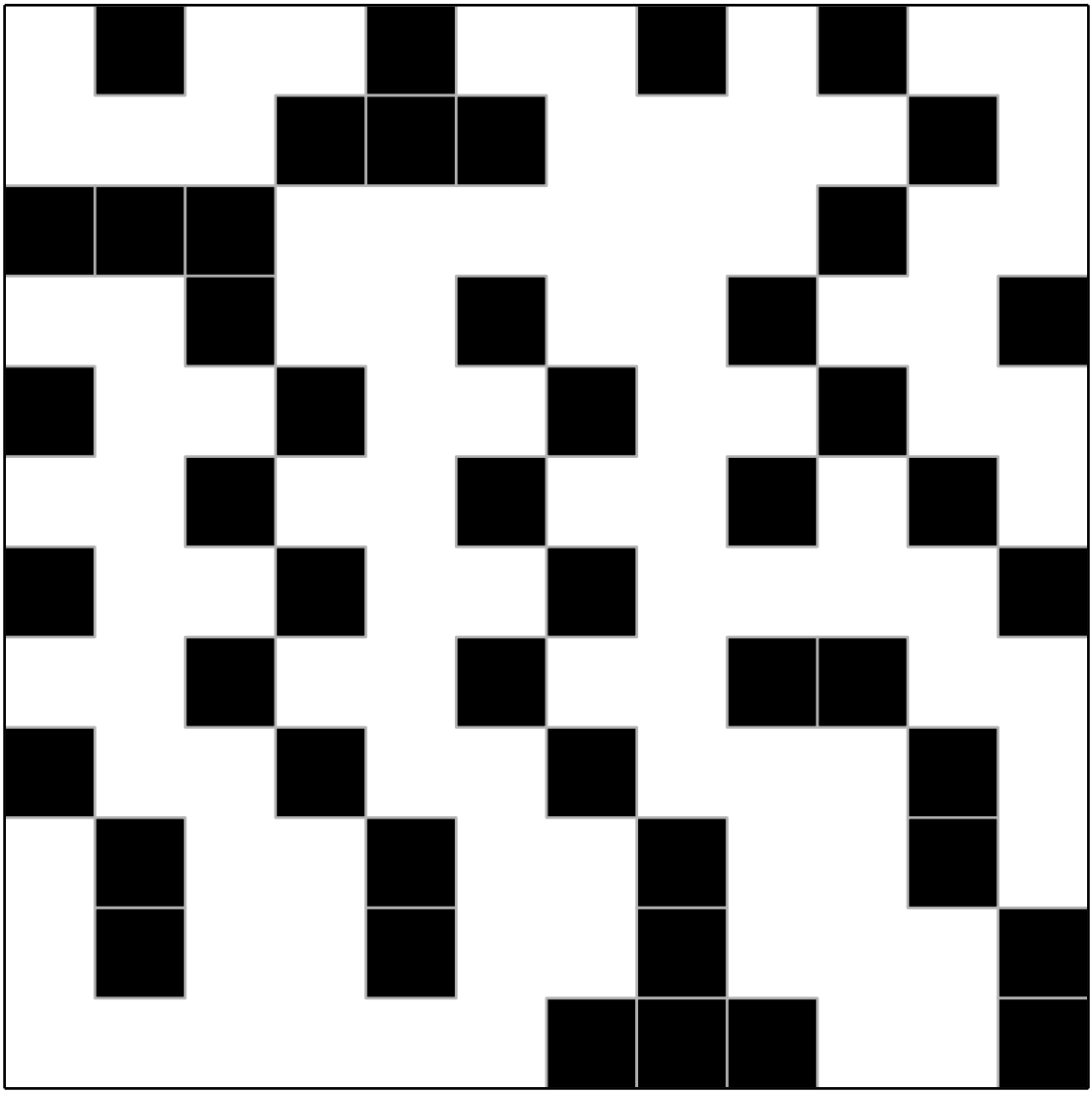

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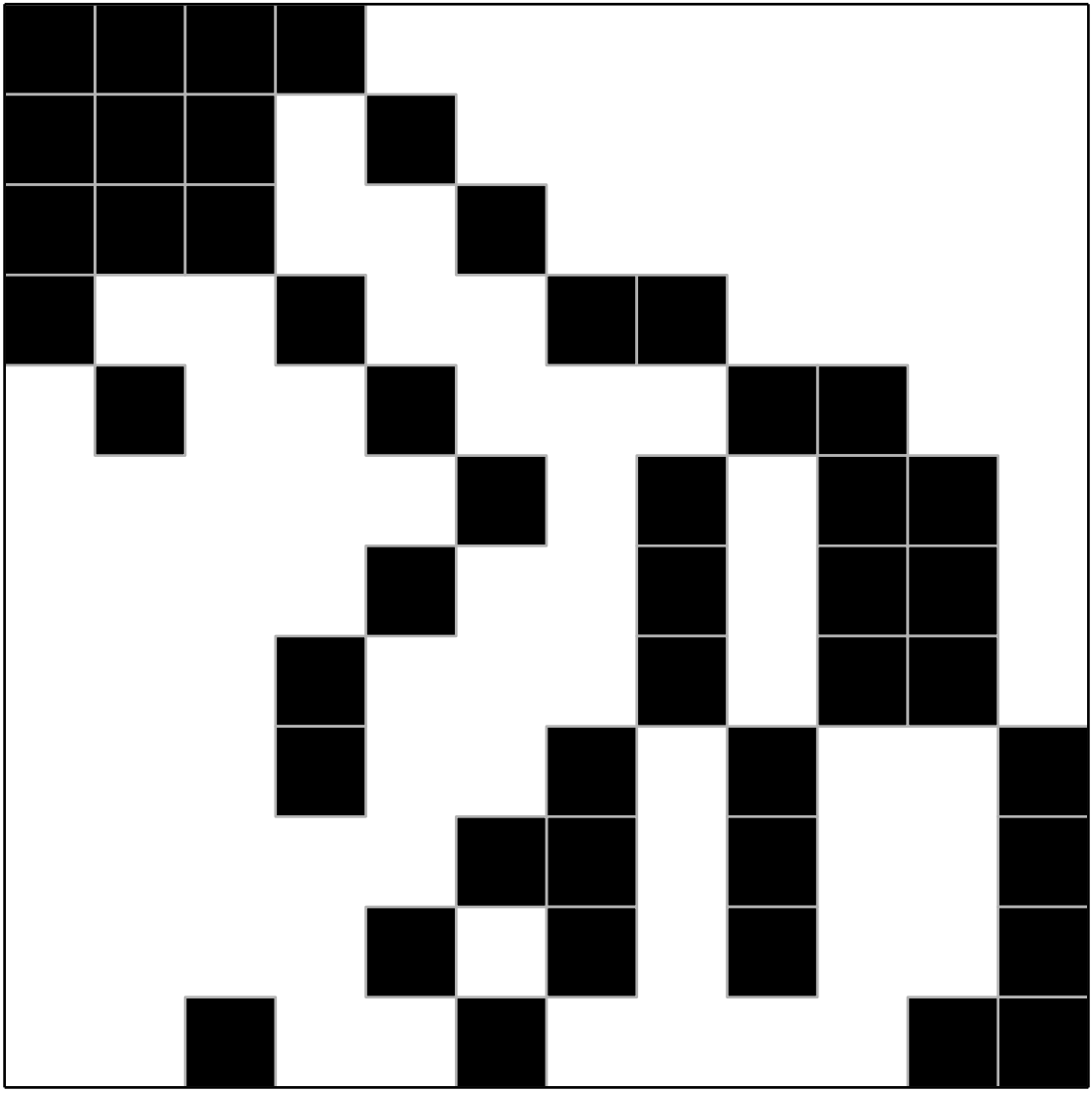
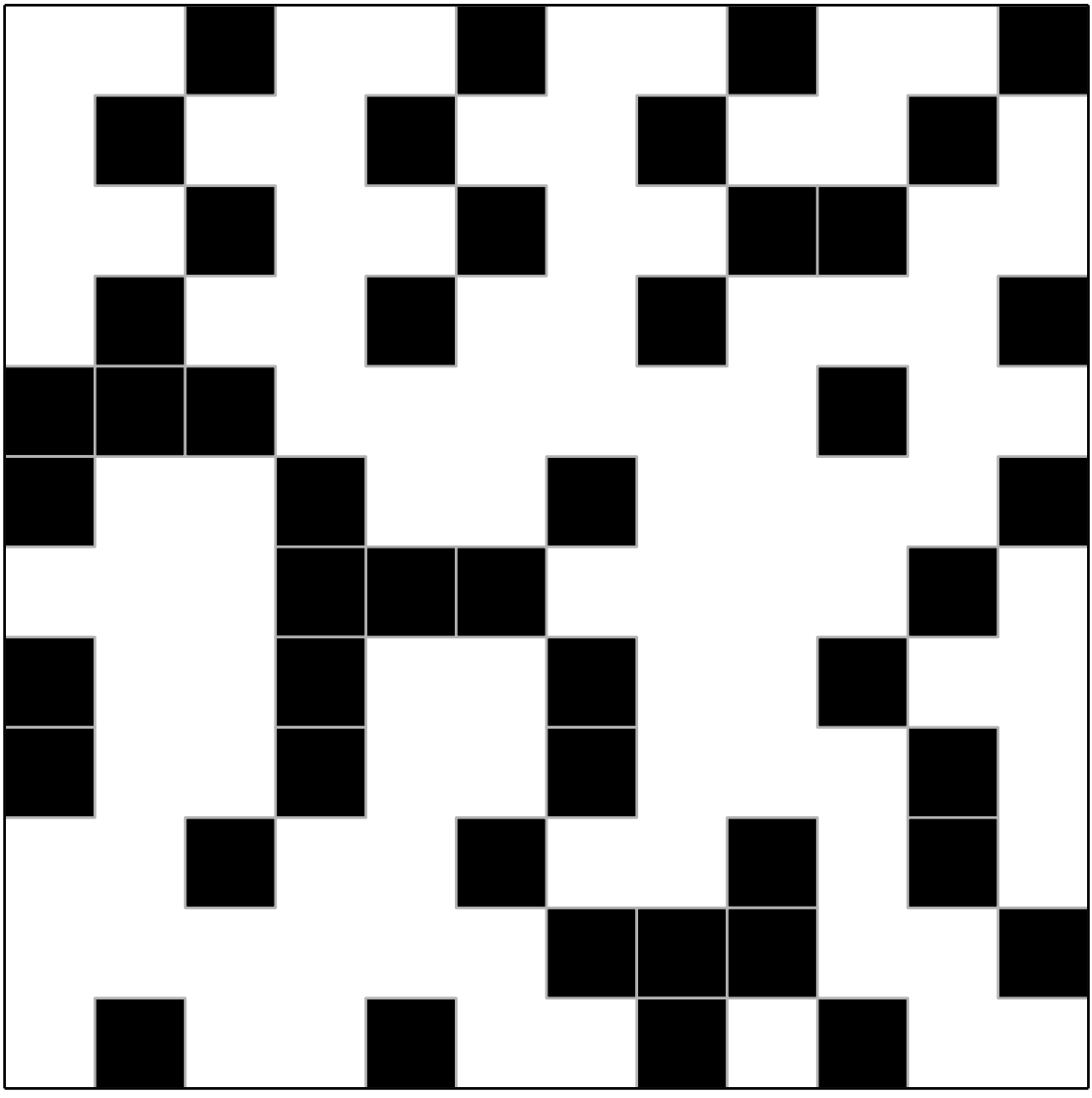
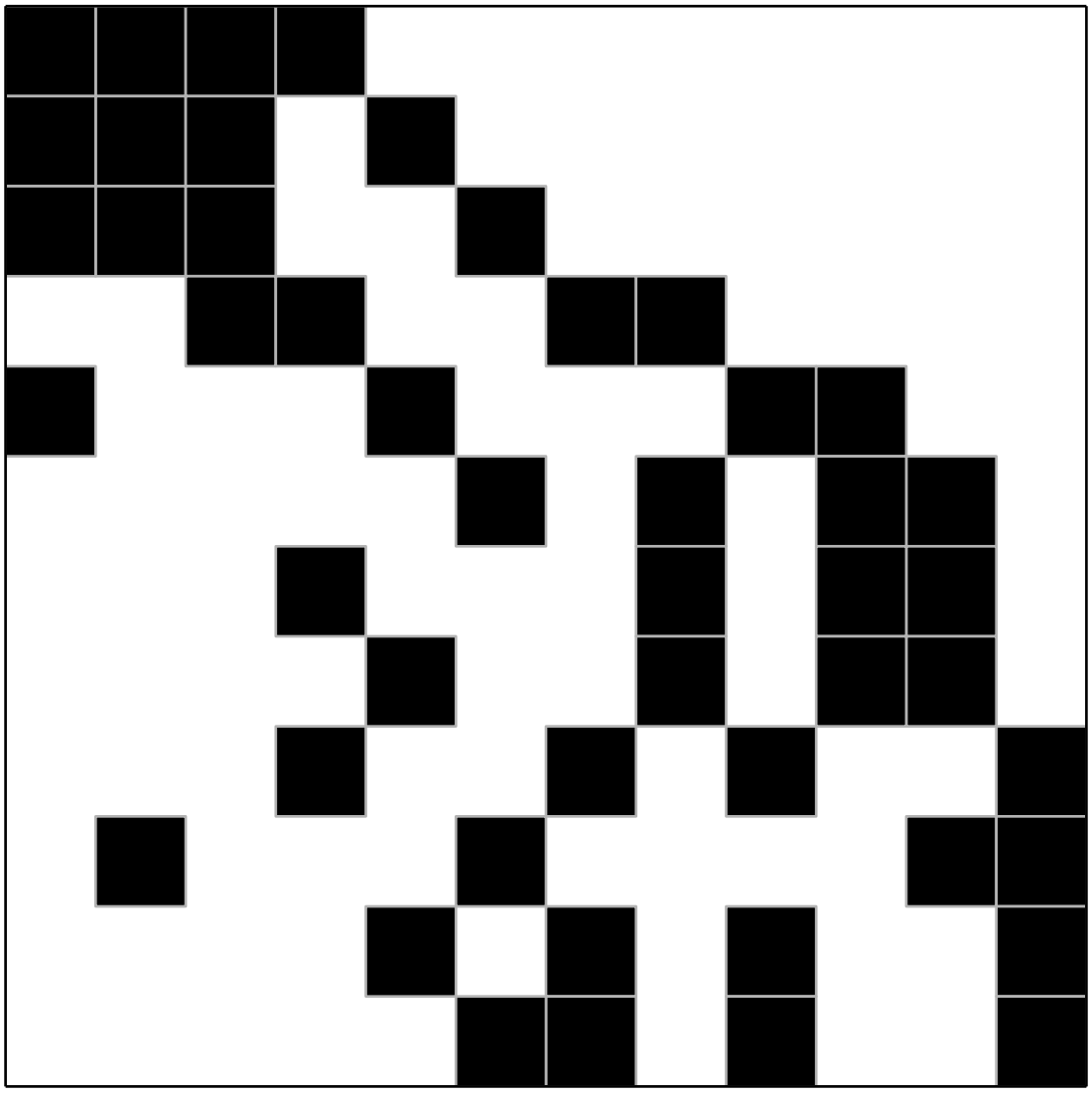


lib1_ex6_2_5-08 12x12 (48) con: 3, var: 9

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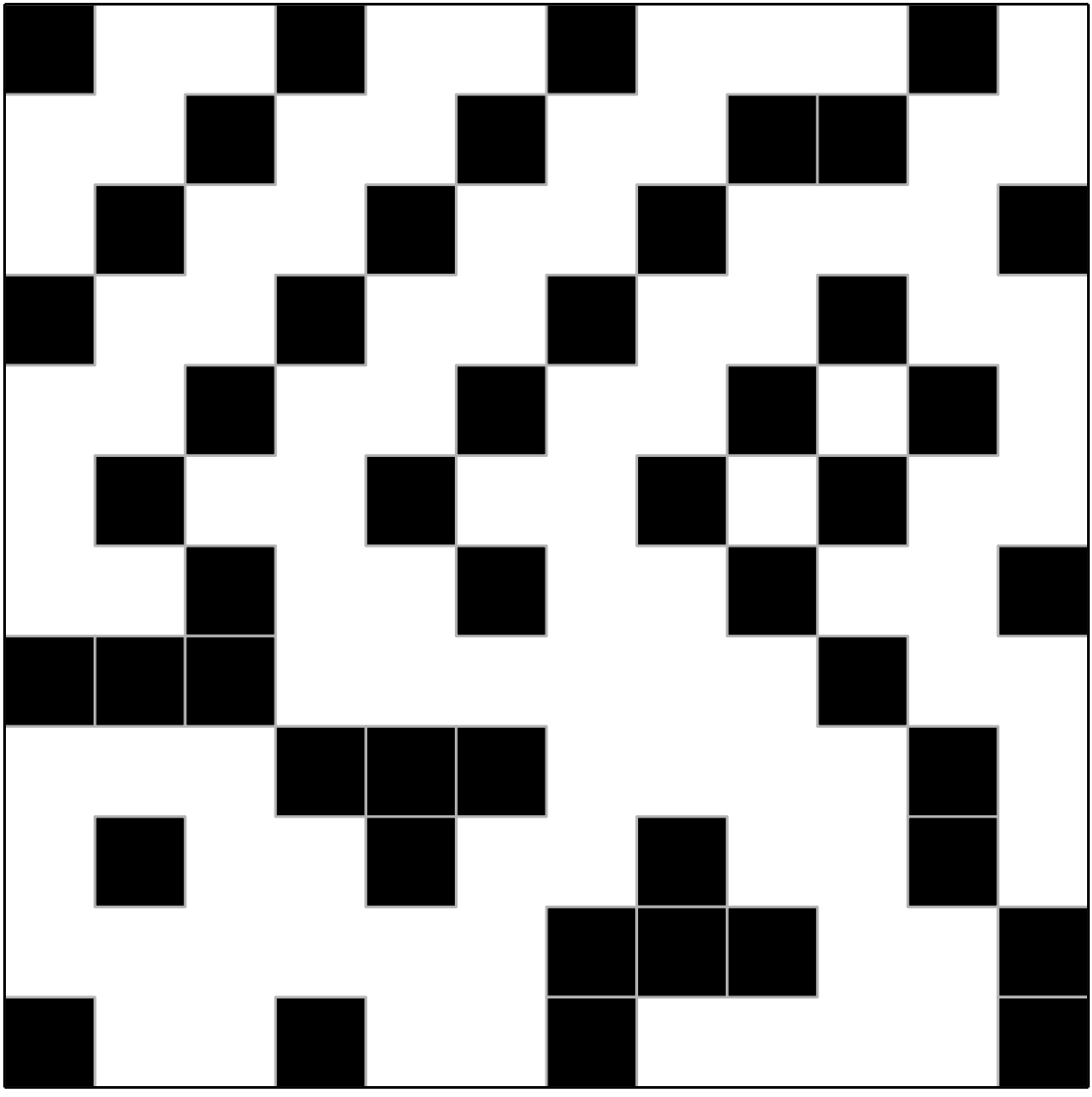
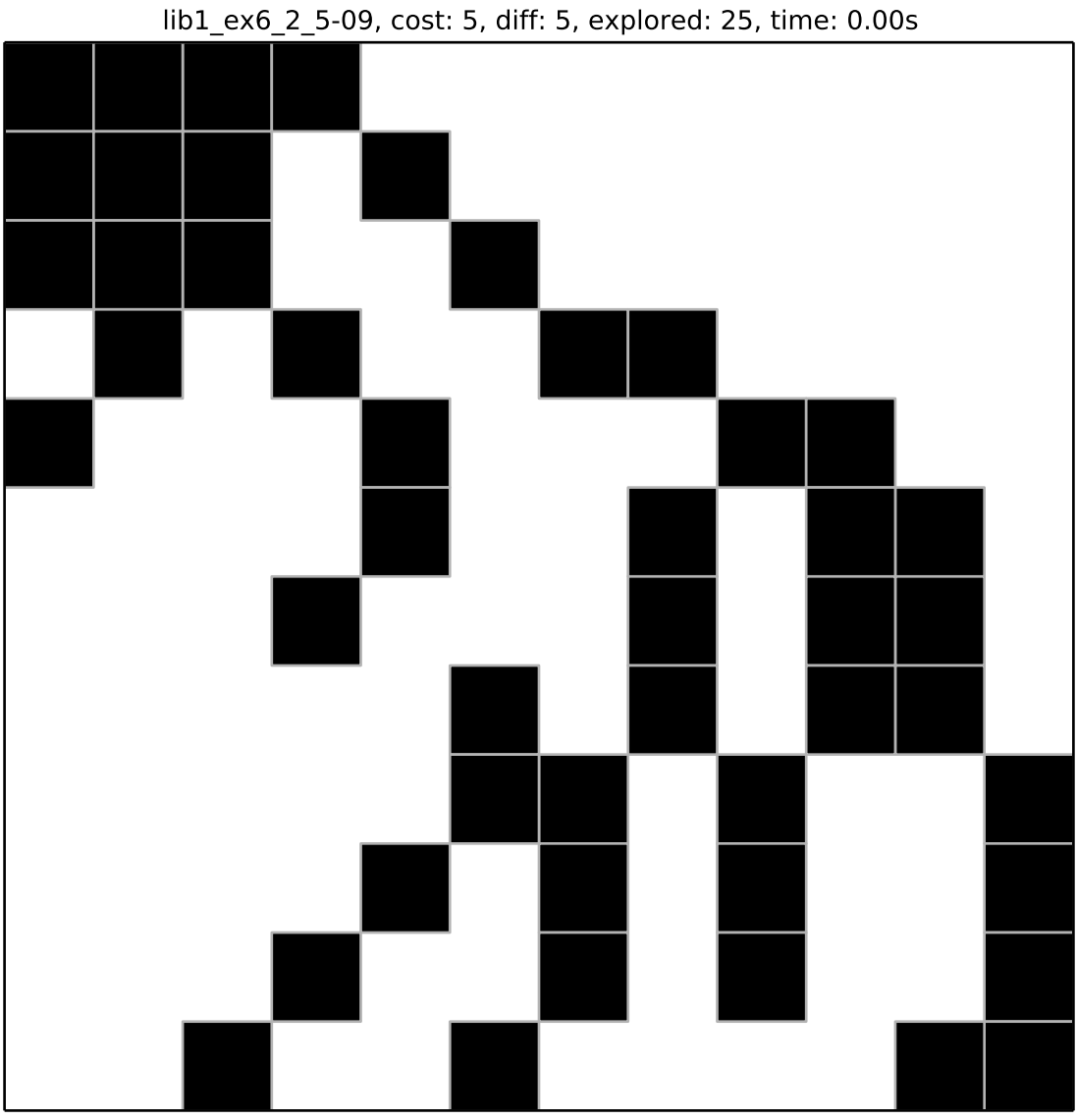
lib1_ex6_2_5-09 12x12 (48) con: 3, var: 9

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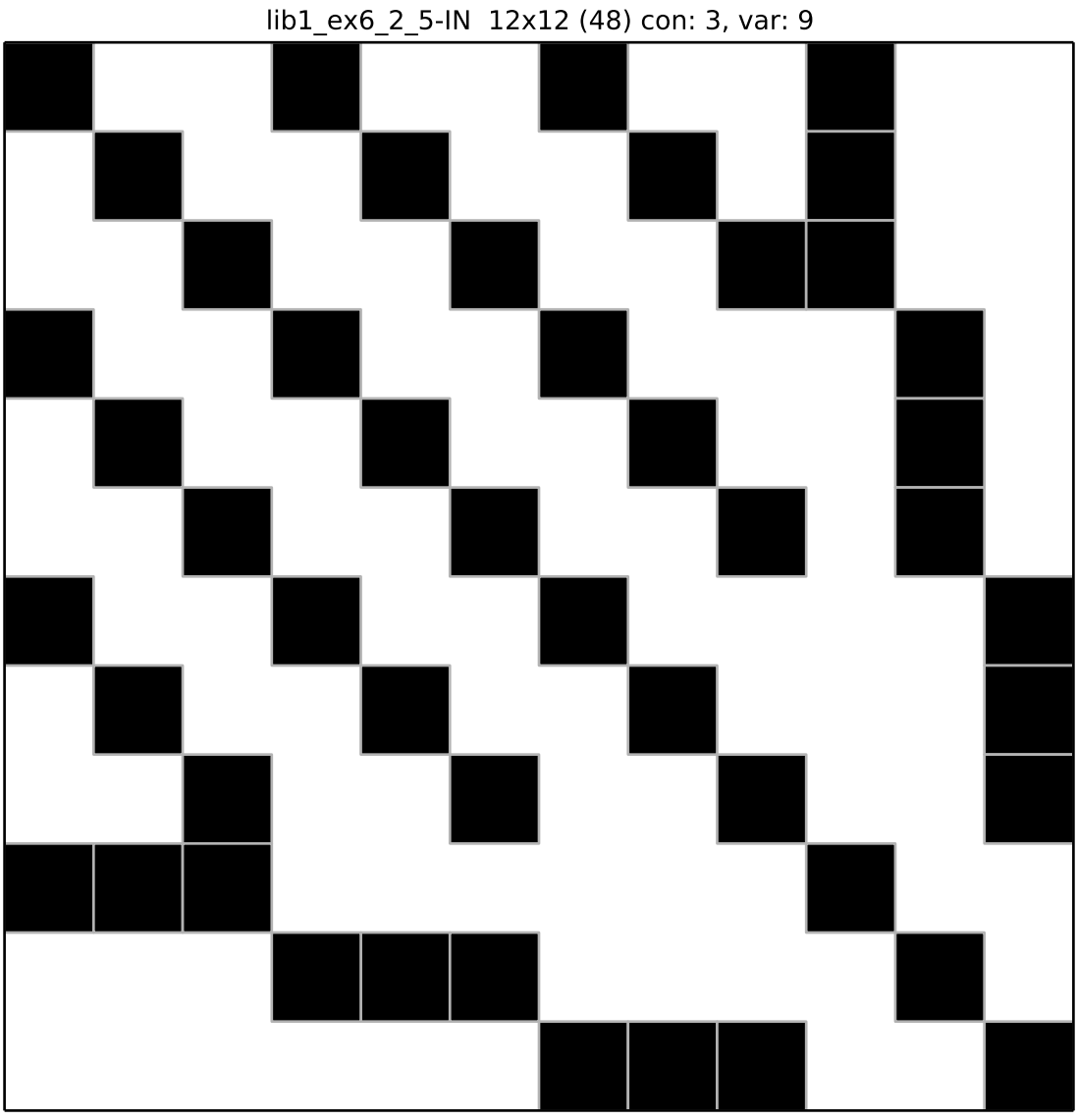
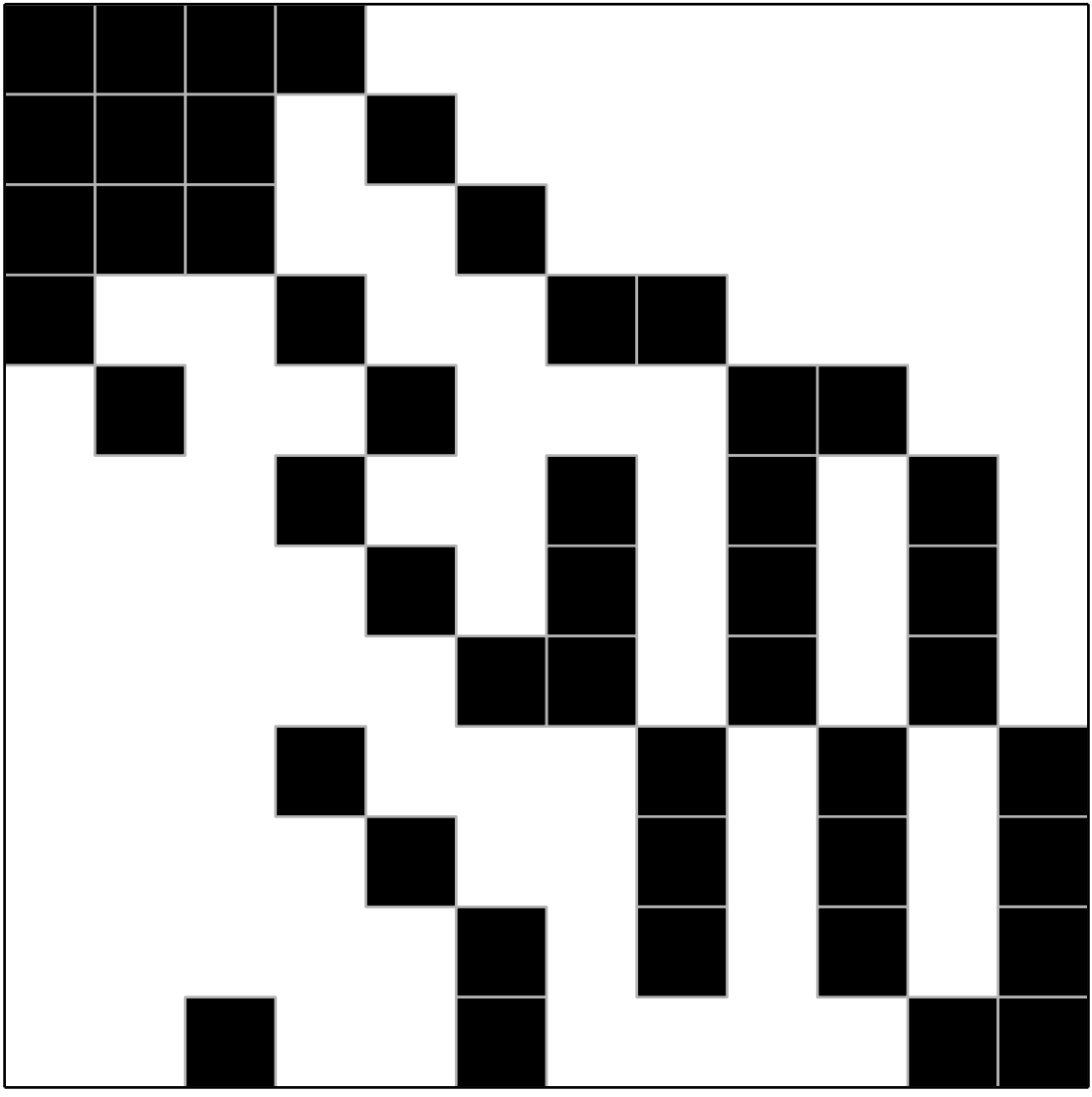
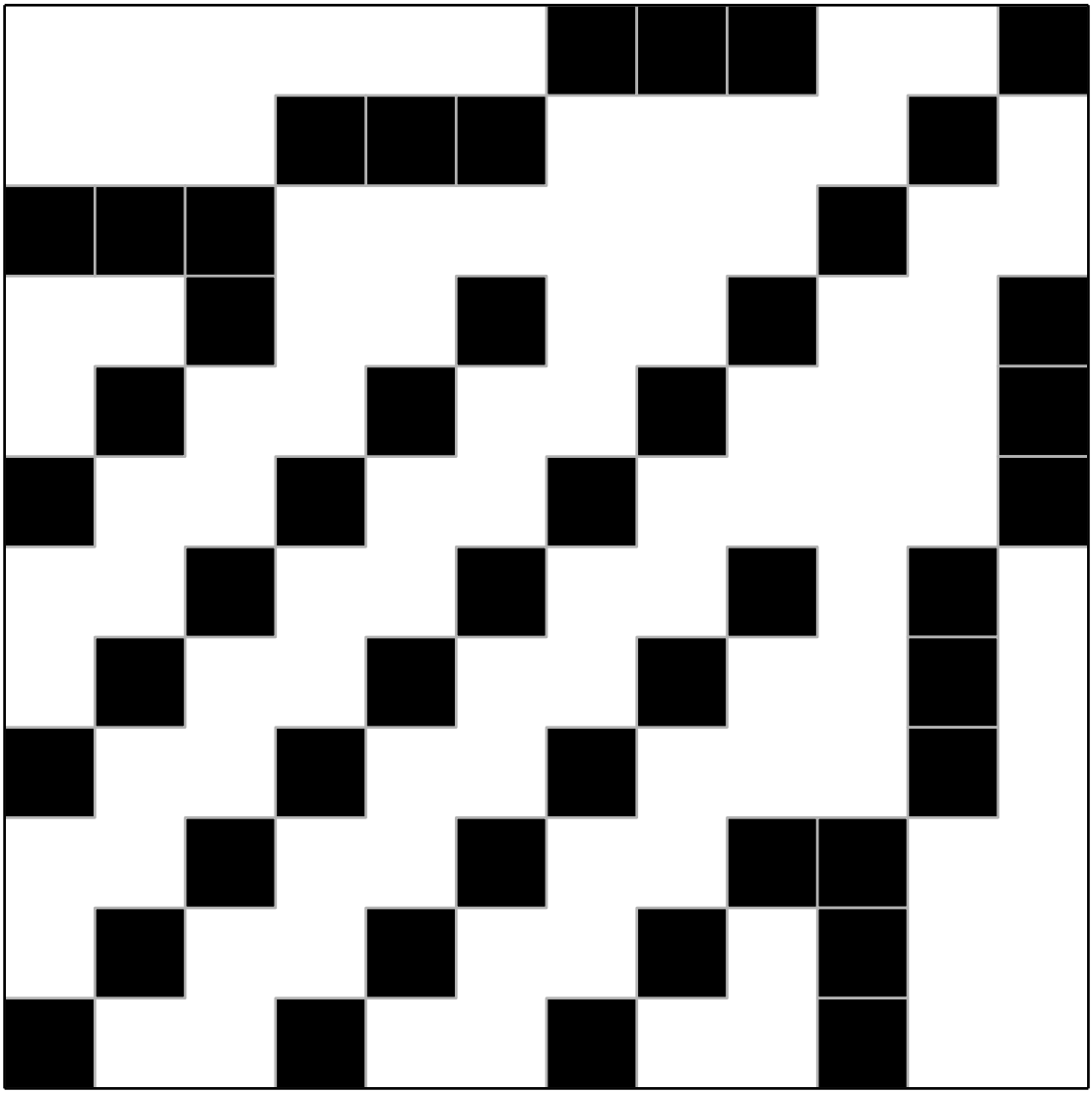

lib1_ex6_2_5-IN 12x12 (48) con: 3, var: 9

lib1_ex6_2_5-IN, cost: 5, diff: 5, explored: 25, time: 0.00s



lib1_ex6_2_5-RE 12x12 (48) con: 3, var: 9



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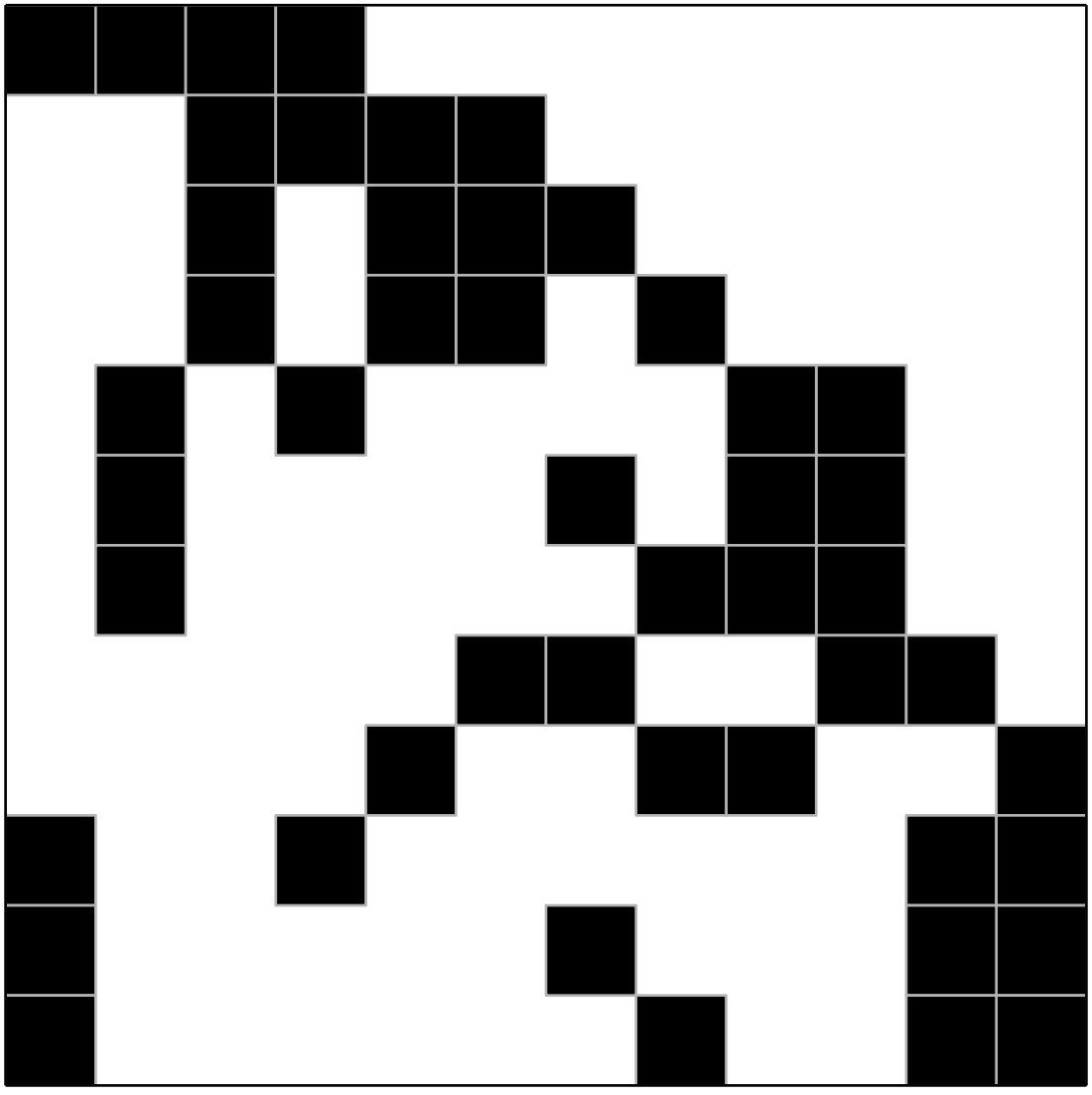
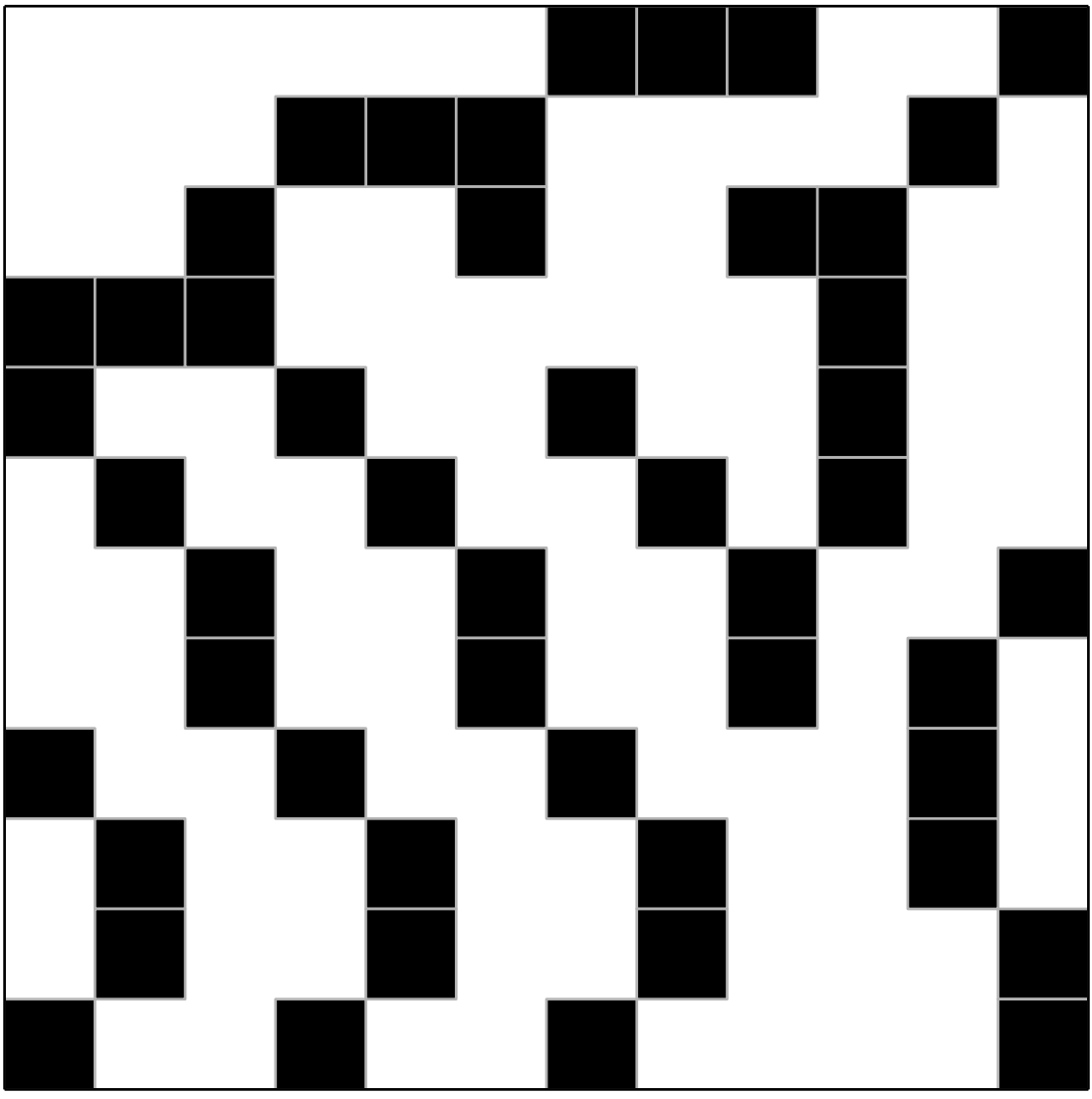
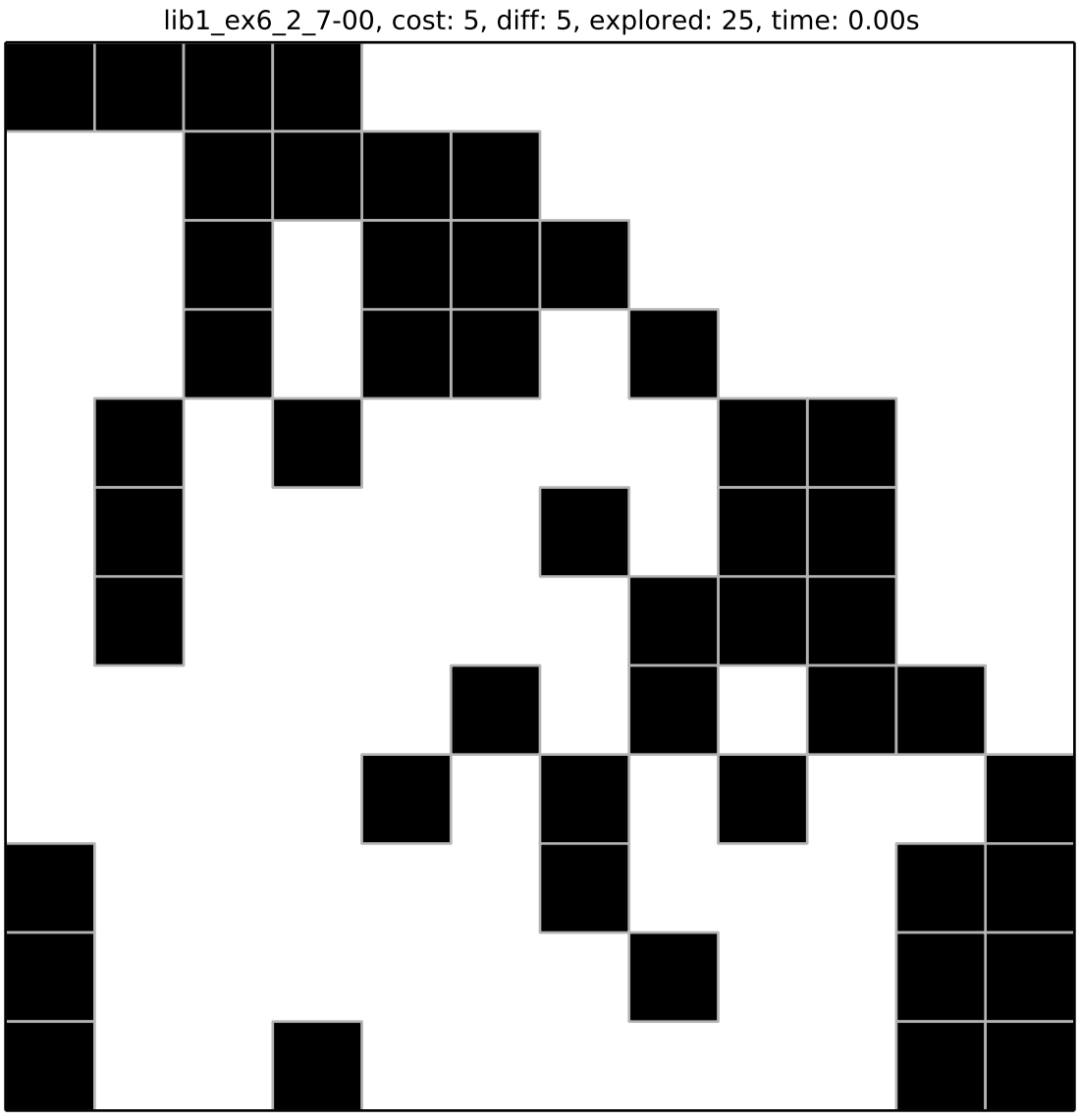
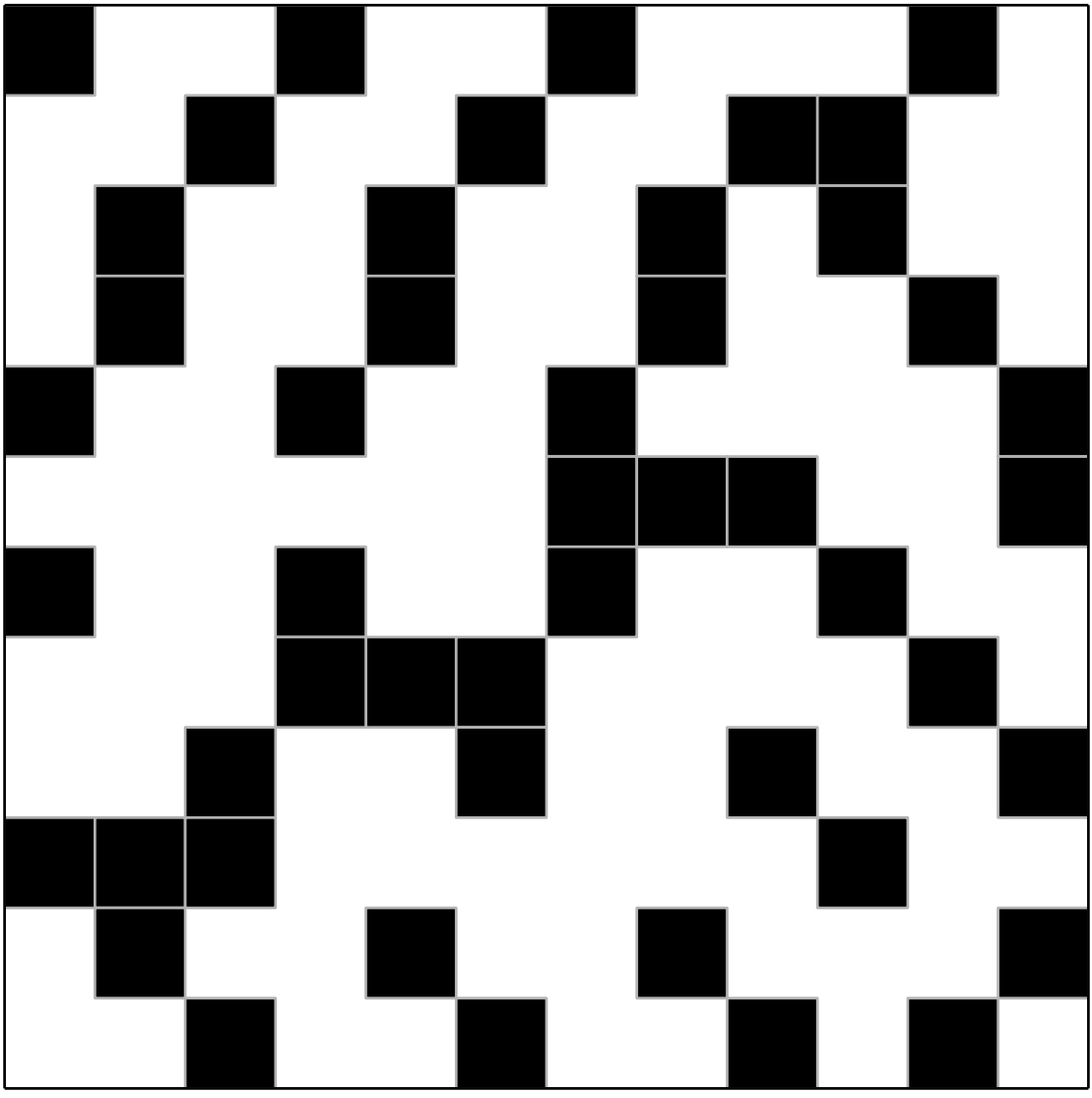
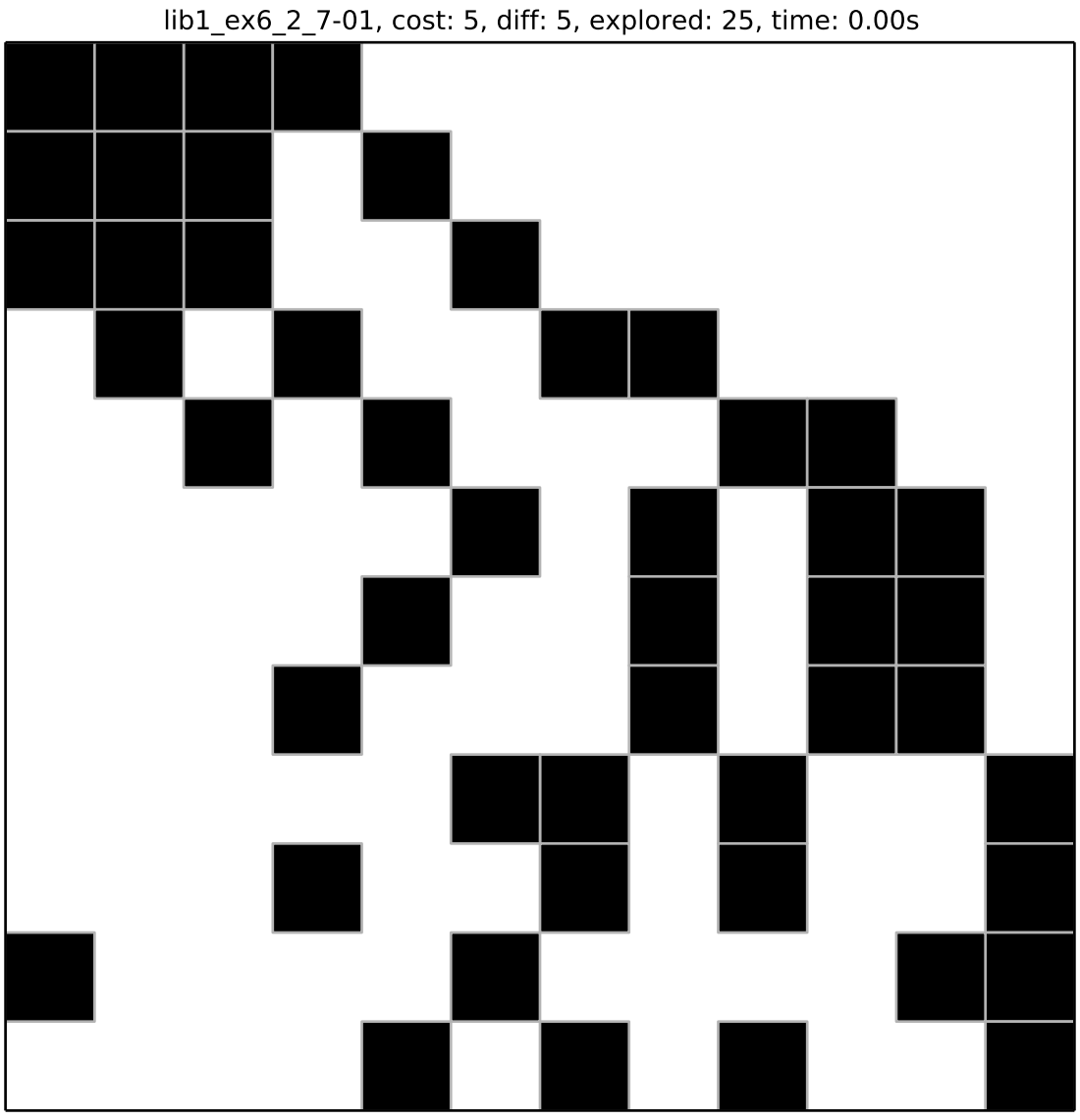



lib1_ex6_2_7-00 12x12 (48) con: 3, var: 9


lib1_ex6_2_7-00, cost: 5, diff: 5, explored: 25, time: 0.00s

lib1_ex6_2_7-01 12x12 (48) con: 3, var: 9

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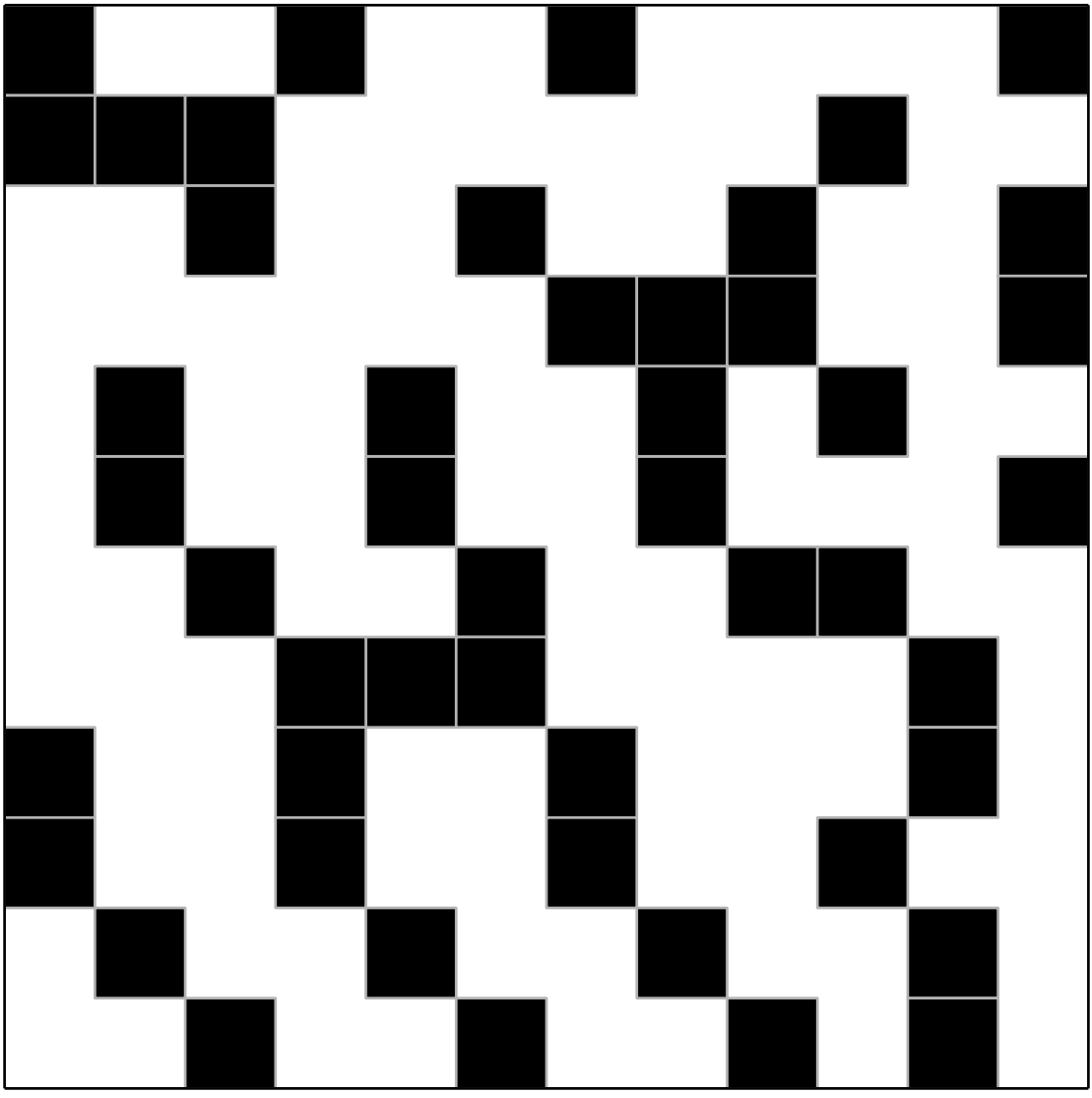
lib1_ex6_2_7-02 12x12 (48) con: 3, var: 9



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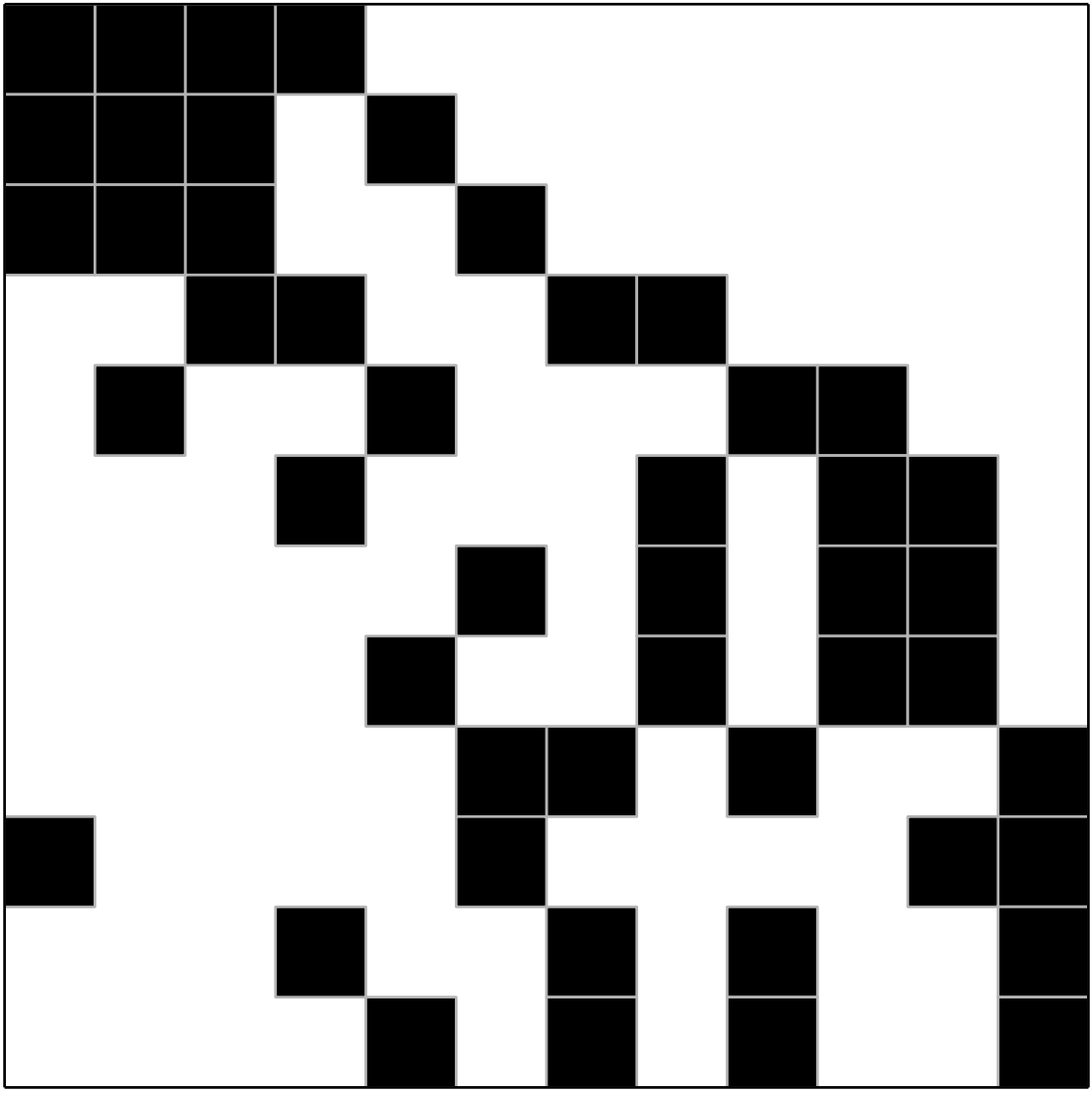
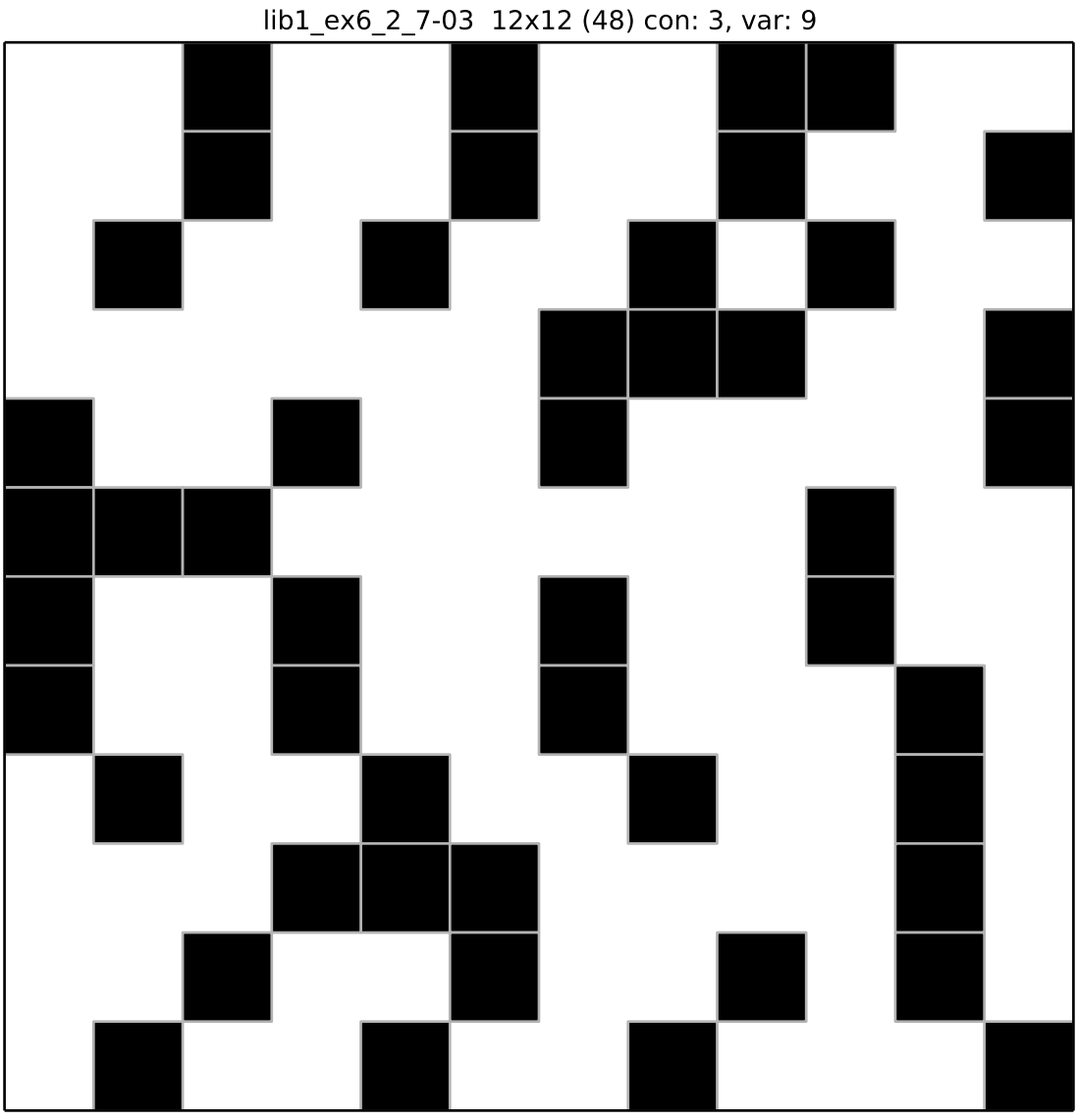
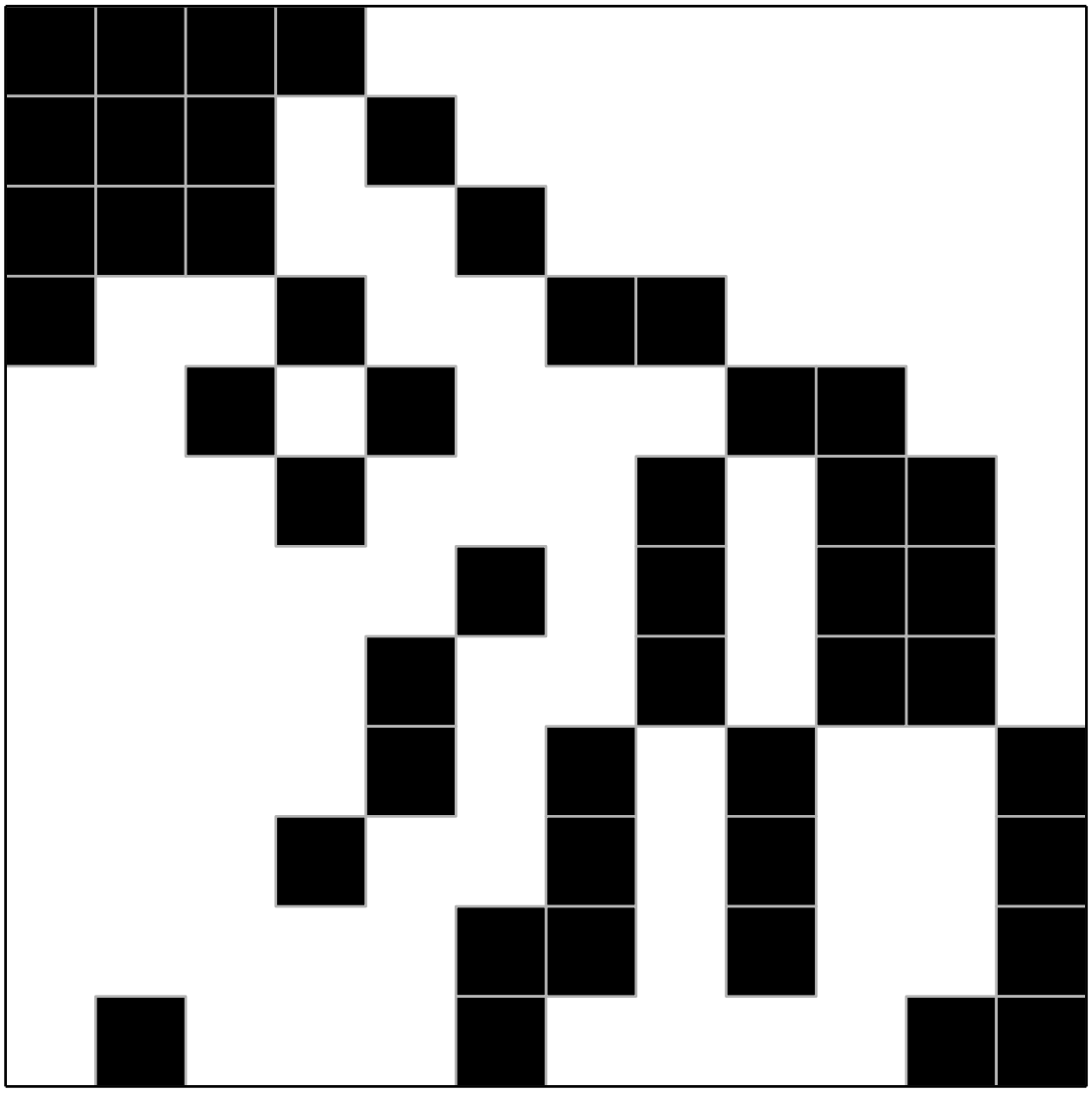
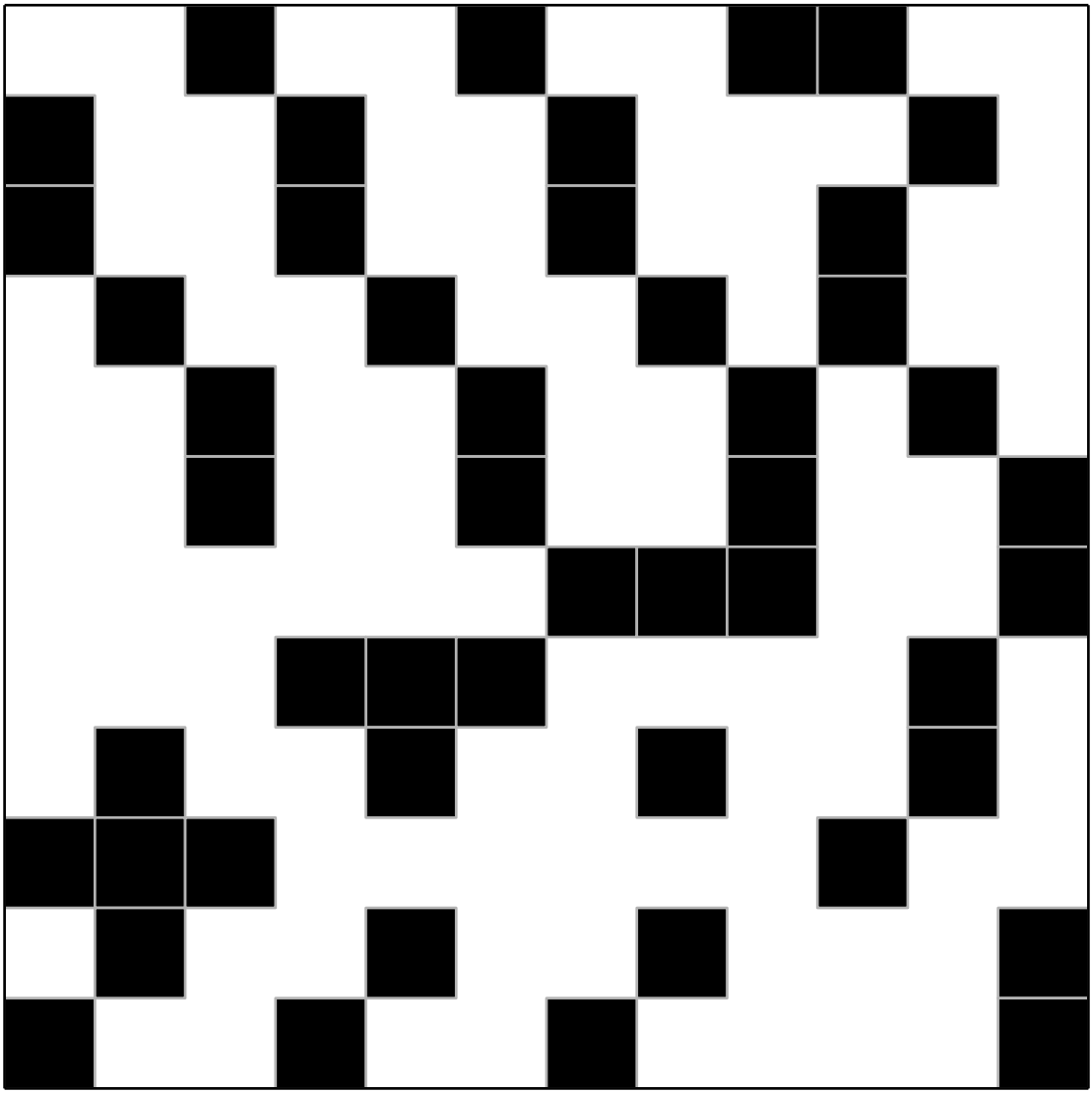


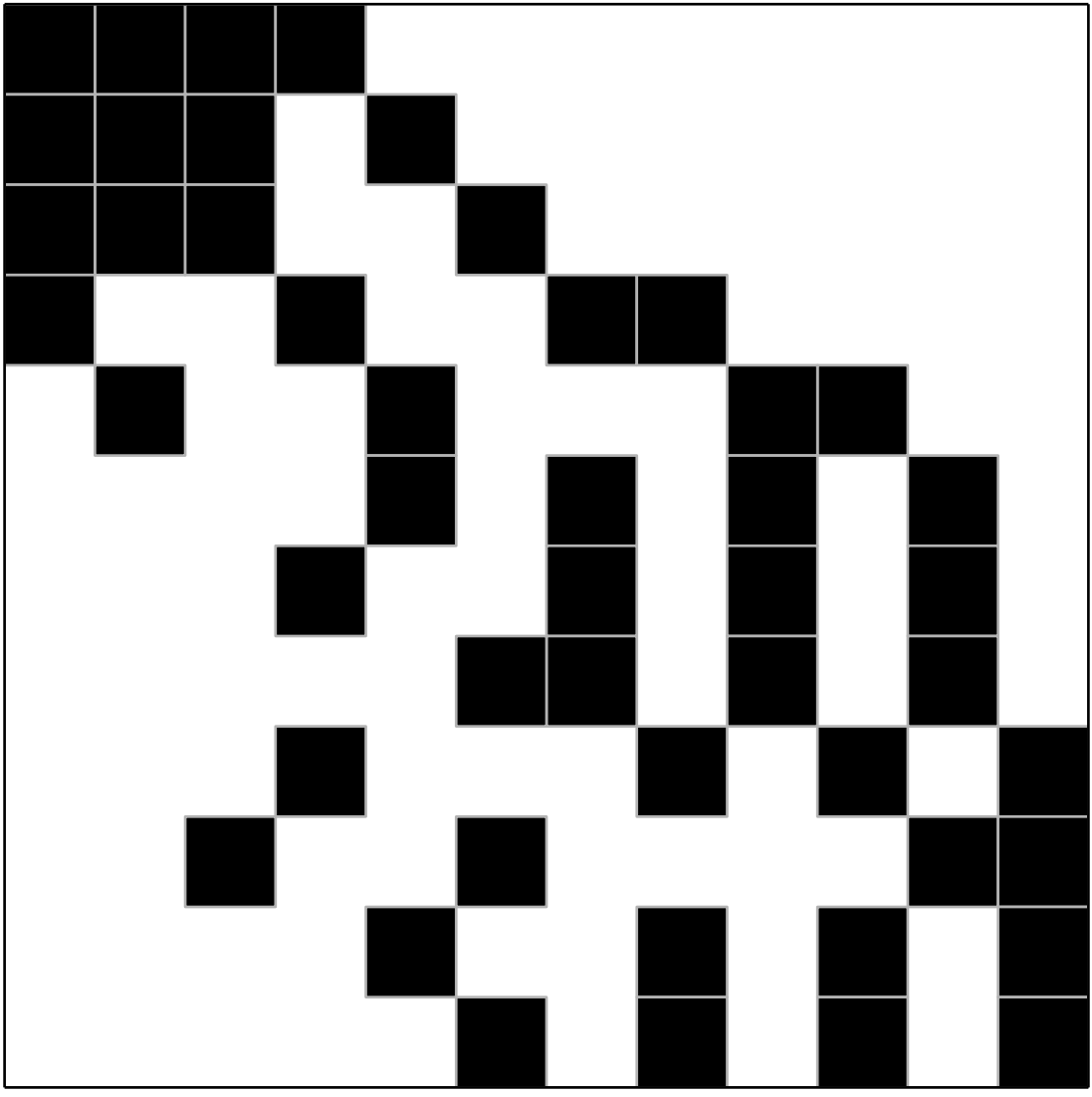

lib1_ex6_2_7-03 12x12 (48) con: 3, var: 9

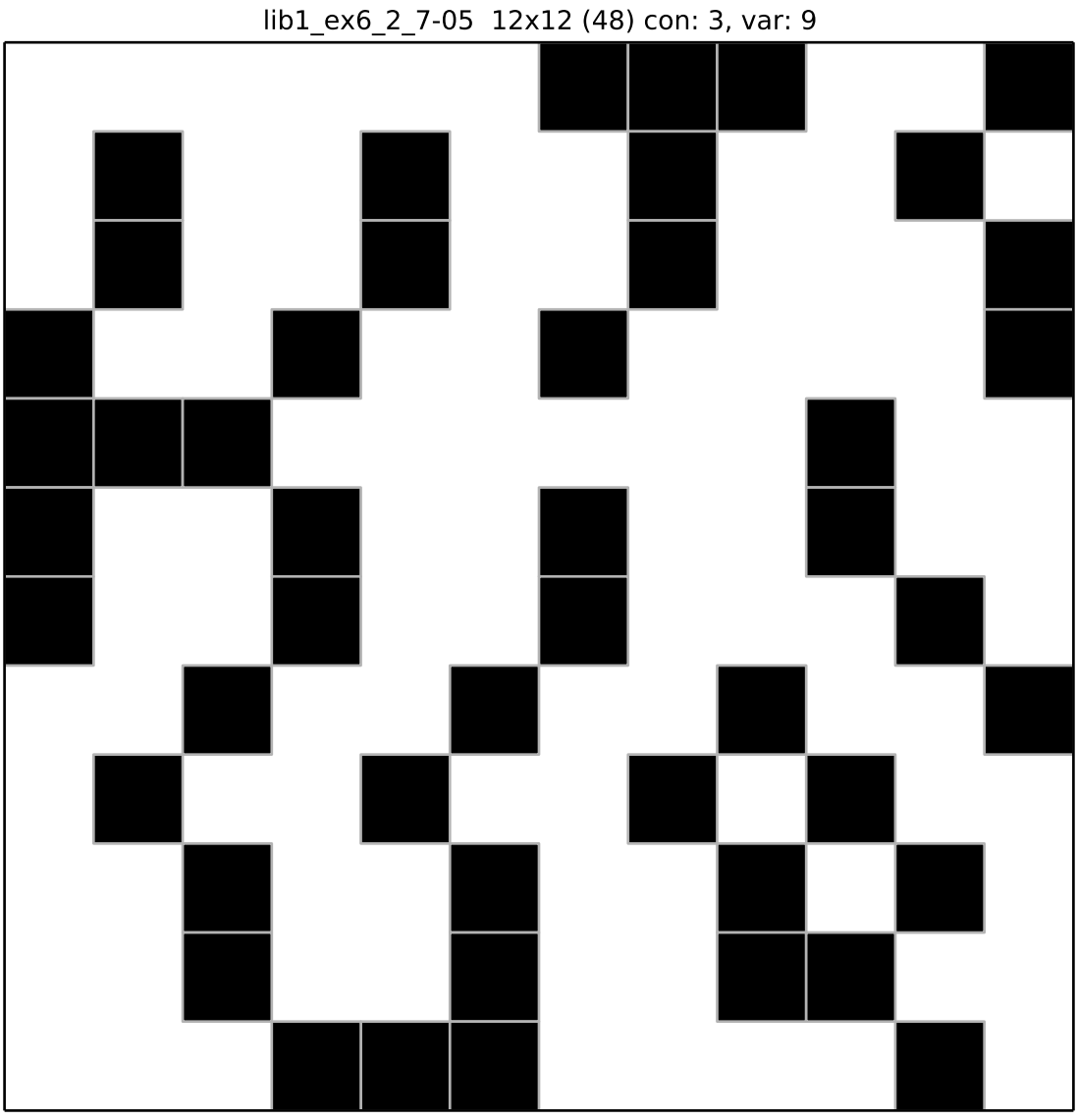

lib1_ex6_2_7-03, cost: 5, diff: 5, explored: 25, time: 0.00s

lib1_ex6_2_7-04 12x12 (48) con: 3, var: 9



lib1_ex6_2_7-04, cost: 5, diff: 5, explored: 25, time: 0.00s

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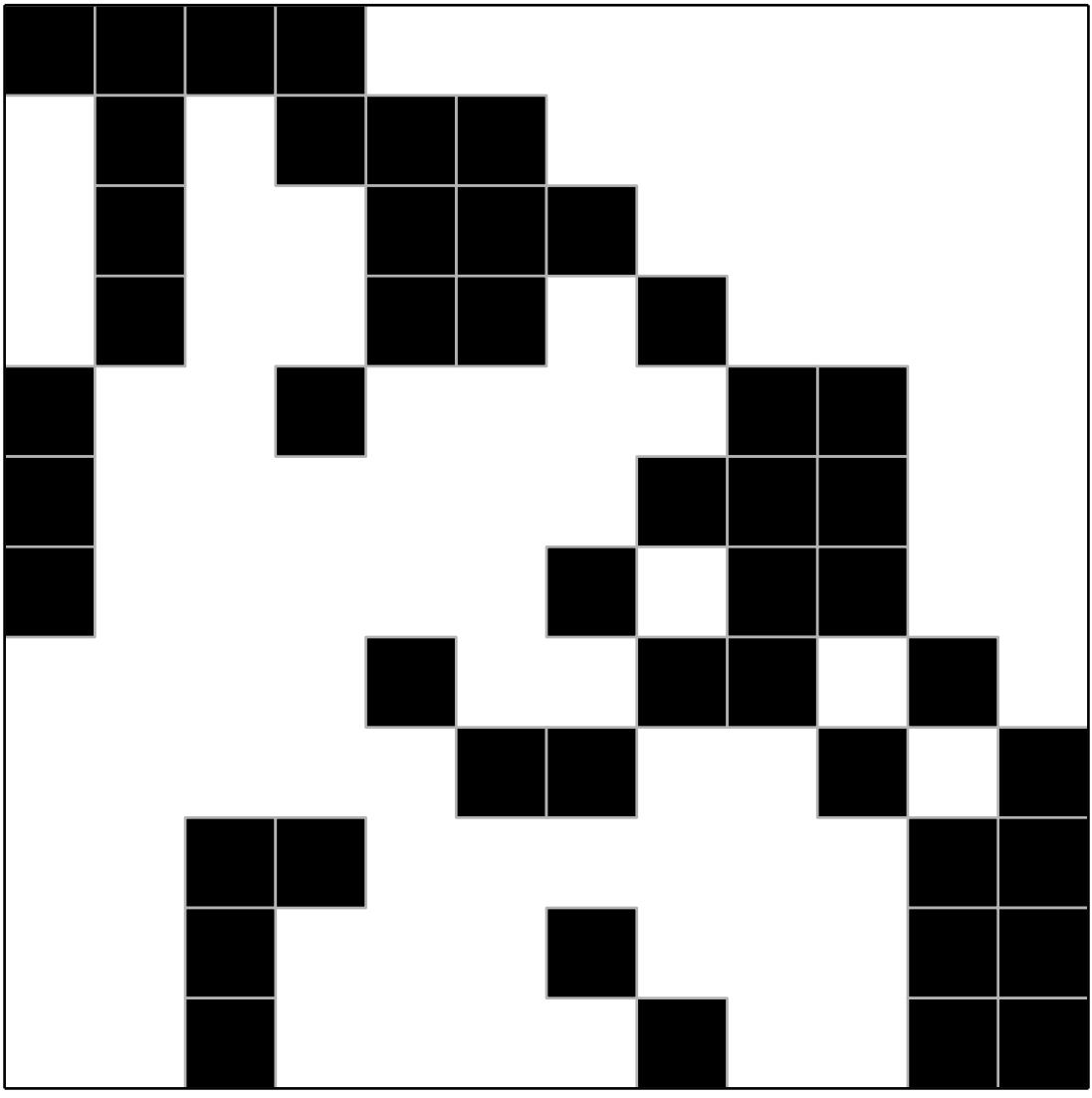
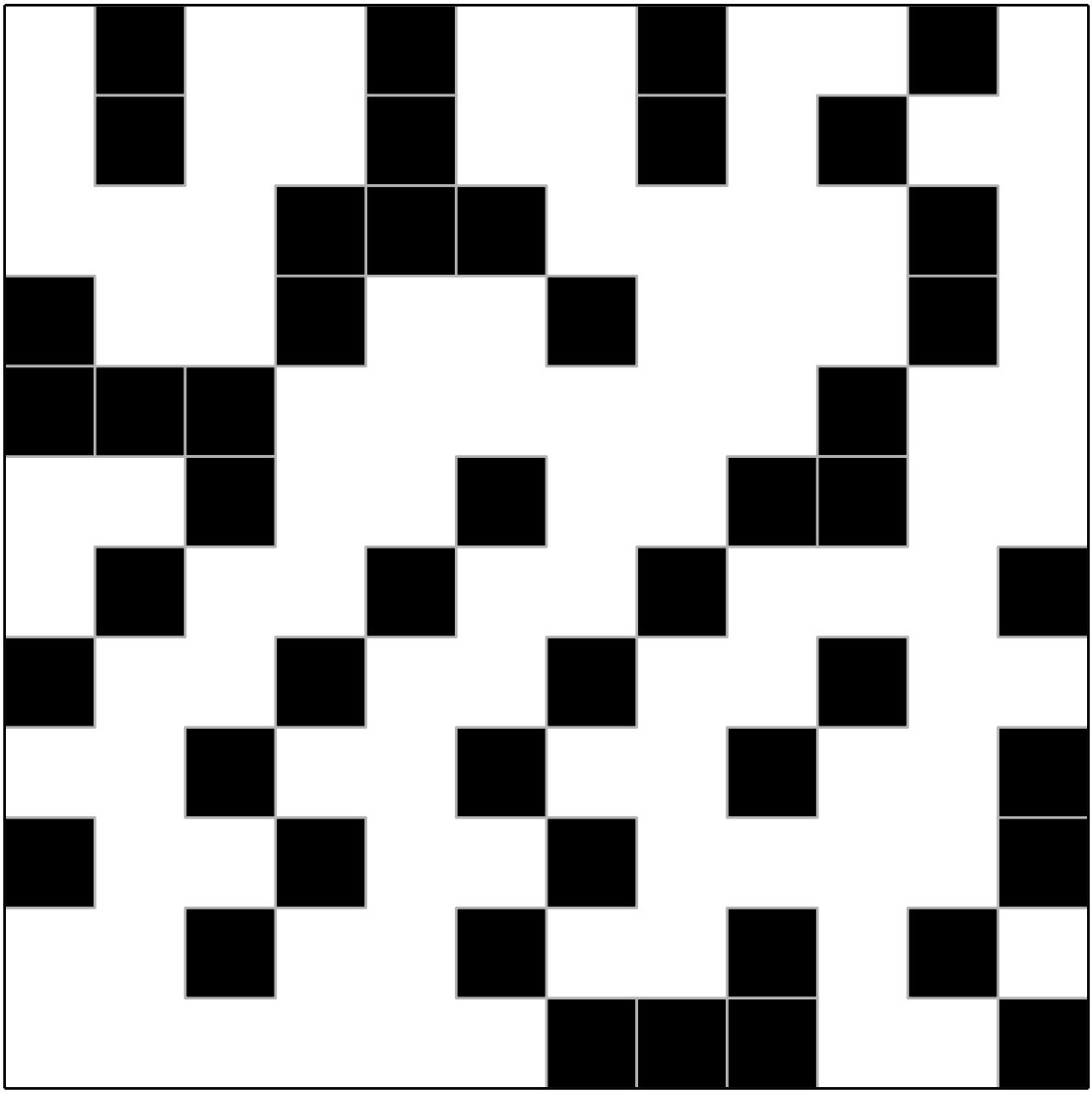
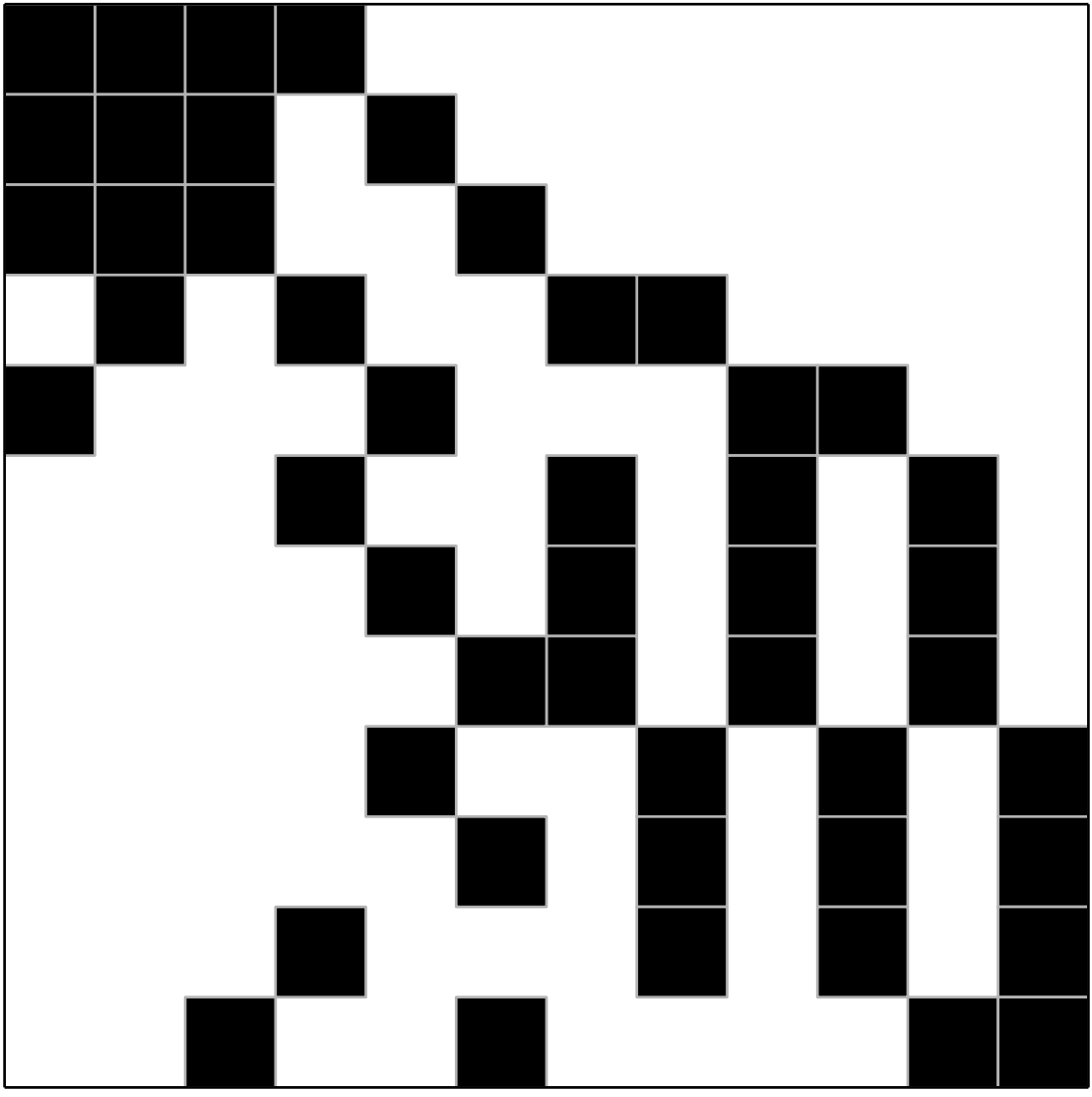

lib1_ex6_2_7-05, cost: 5, diff: 5, explored: 25, time: 0.00s

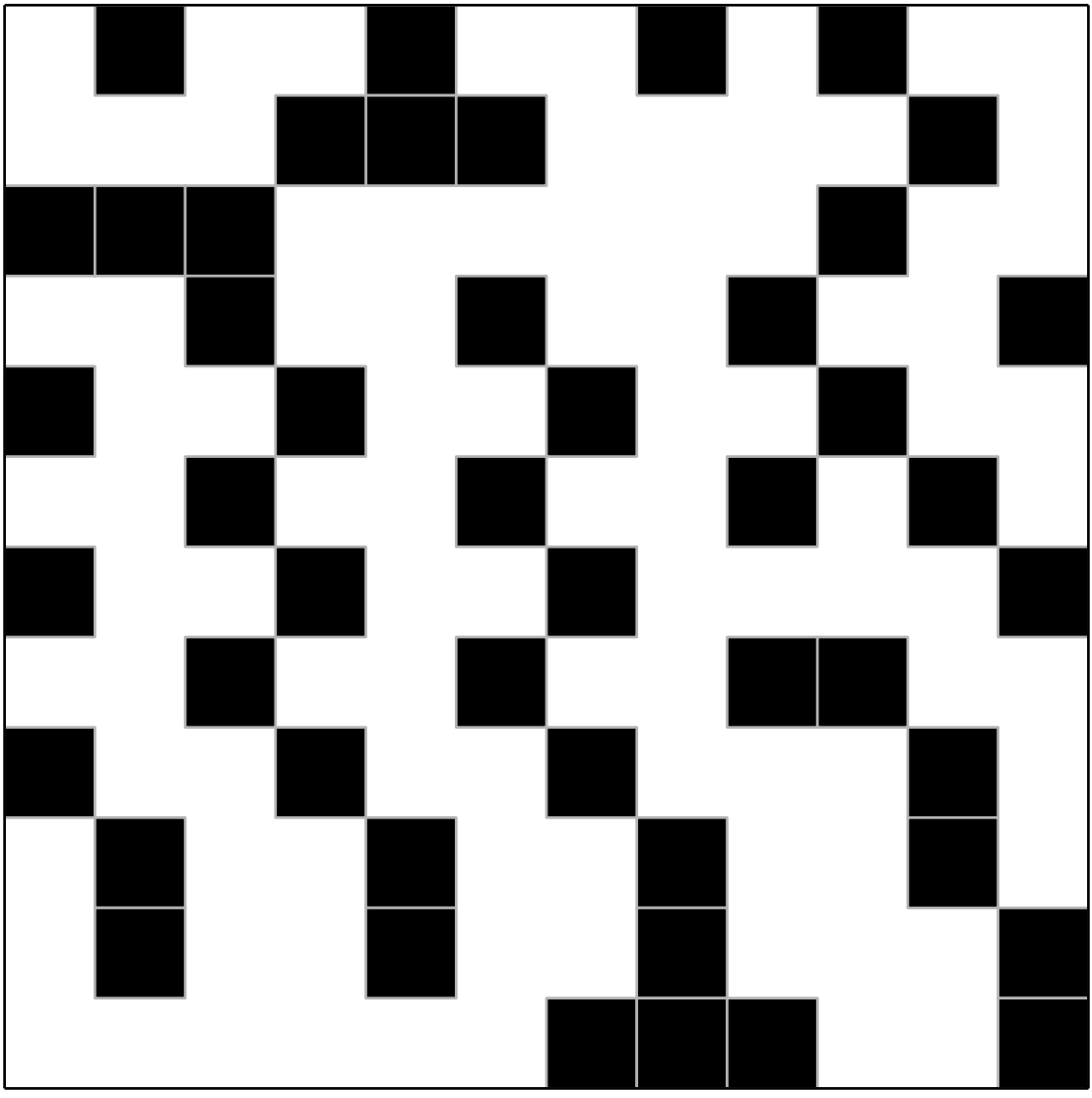
lib1_ex6_2_7-06 12x12 (48) con: 3, var: 9



lib1_ex6_2_7-06, cost: 5, diff: 5, explored: 25, time: 0.00s



lib1_ex6_2_7-07 12x12 (48) con: 3, var: 9



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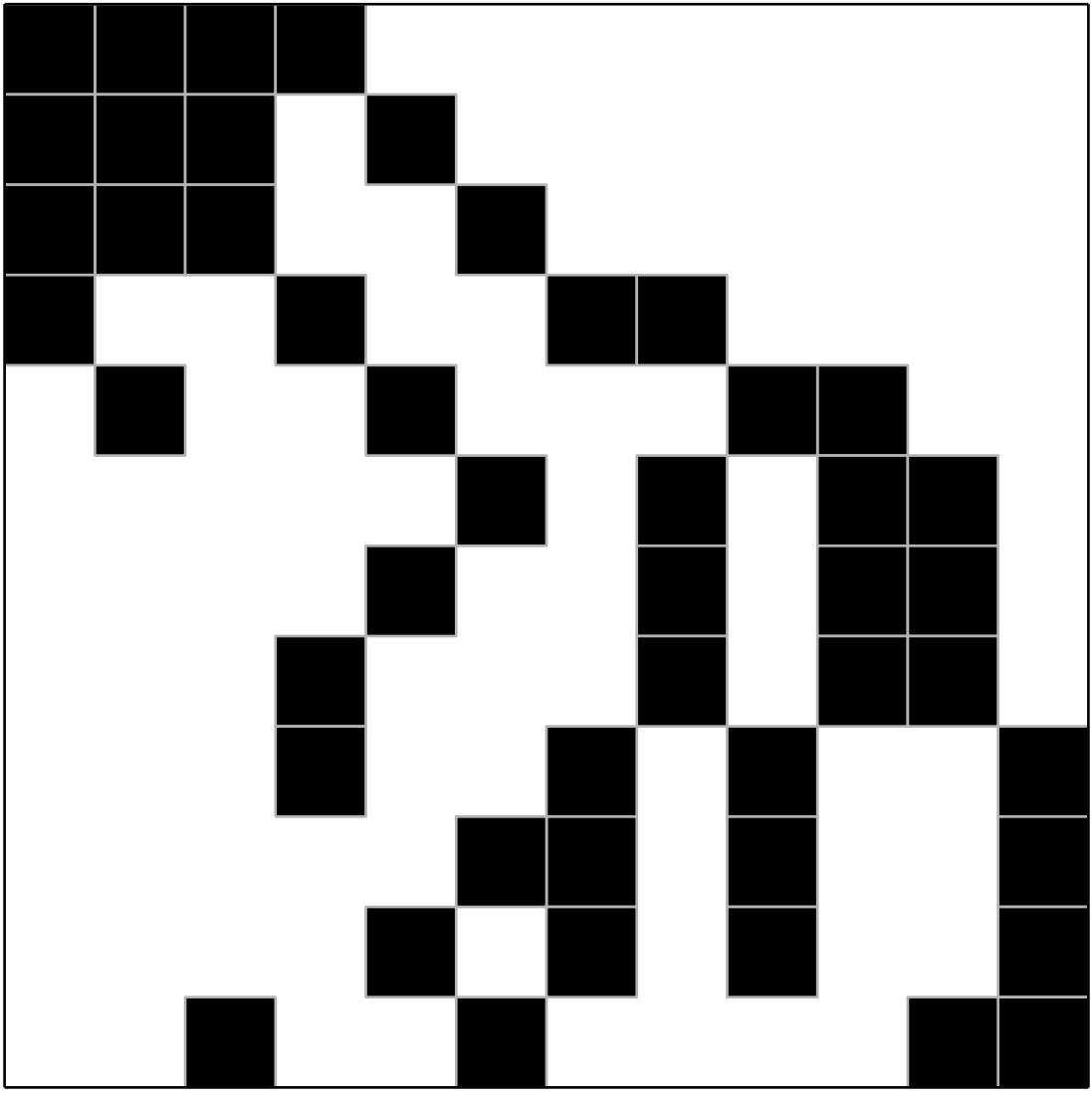
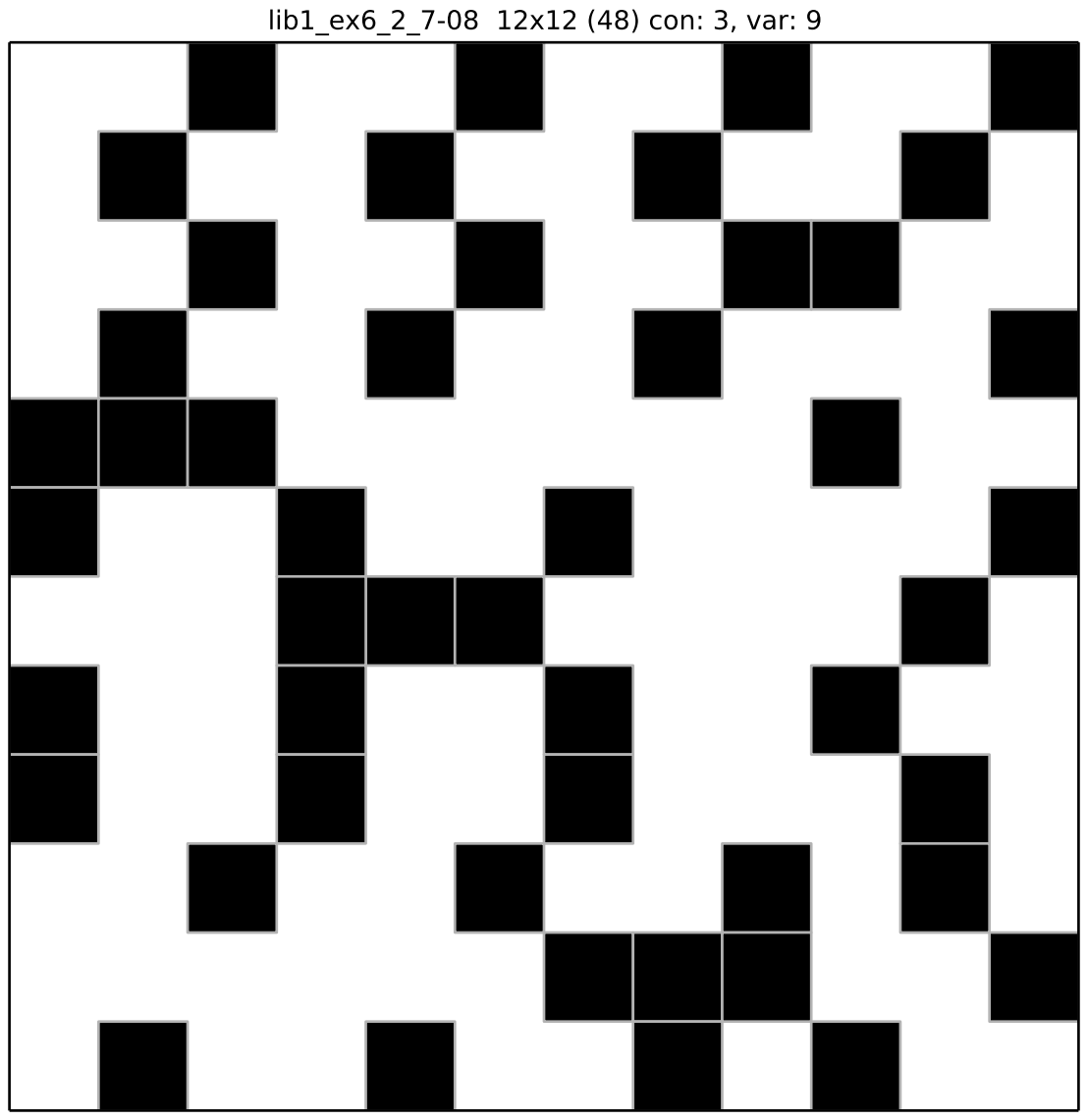
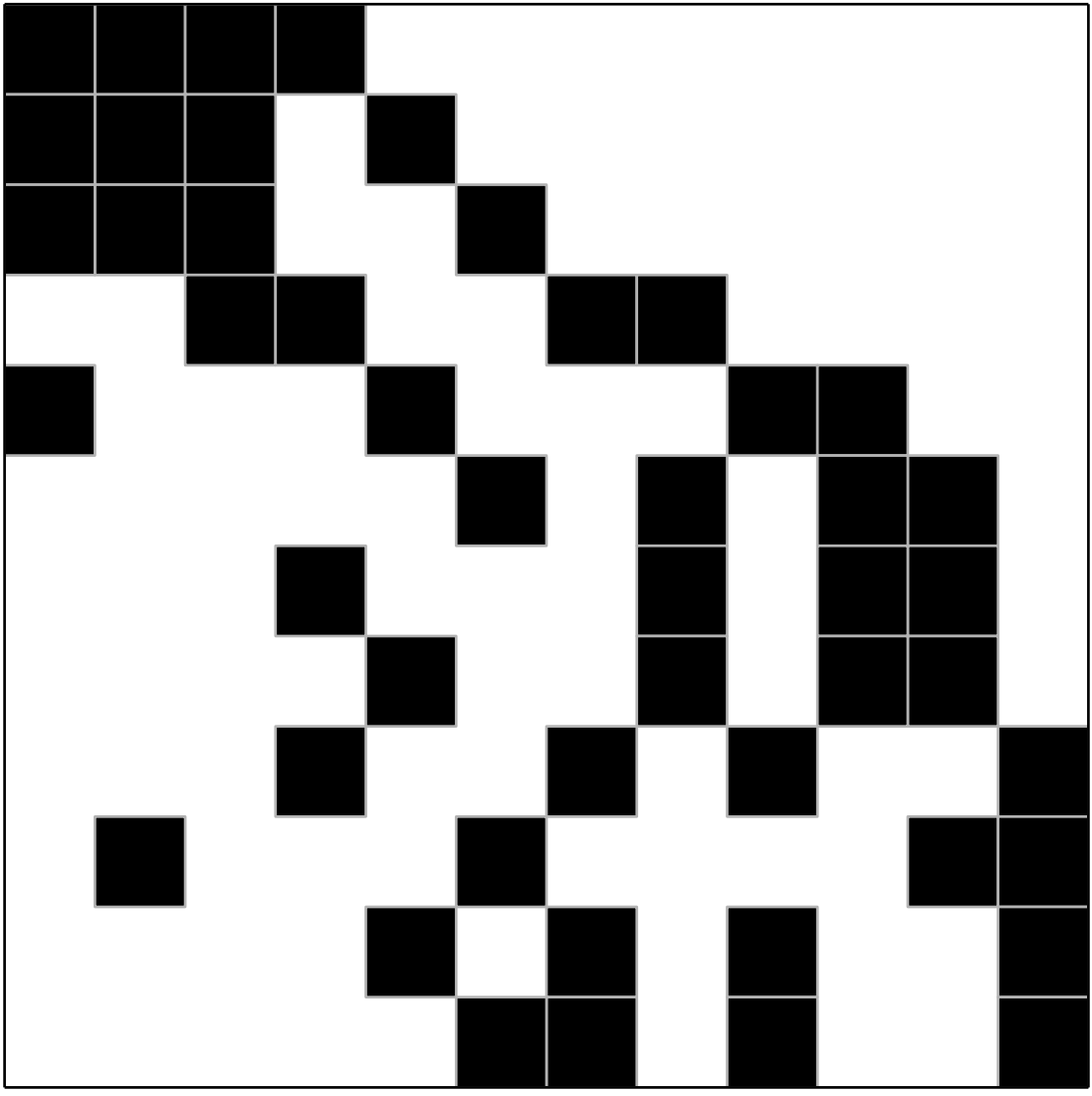
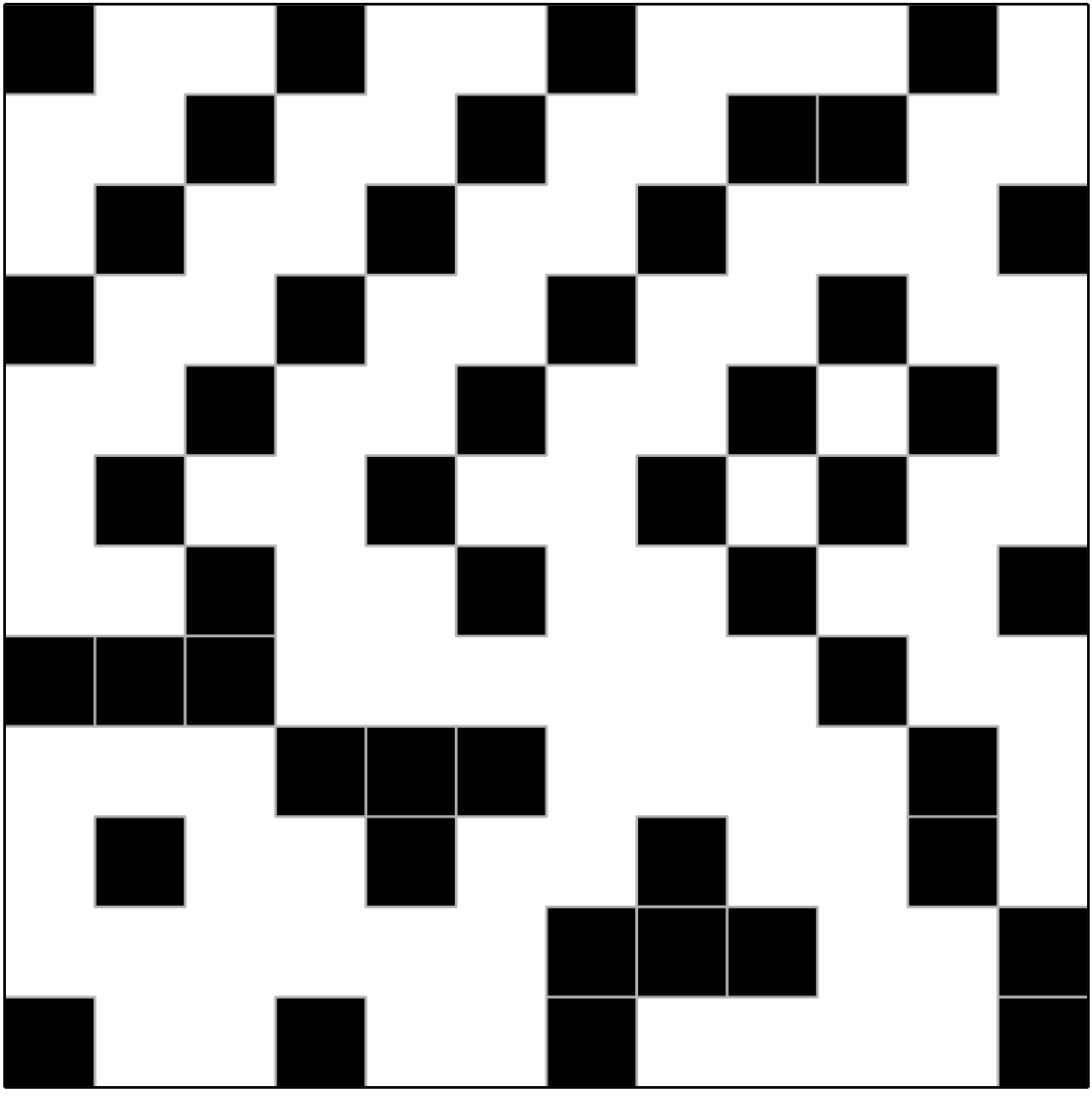



lib1_ex6_2_7-08 12x12 (48) con: 3, var: 9

lib1_ex6_2_7-08, cost: 5, diff: 5, explored: 25, time: 0.00s



lib1_ex6_2_7-09 12x12 (48) con: 3, var: 9



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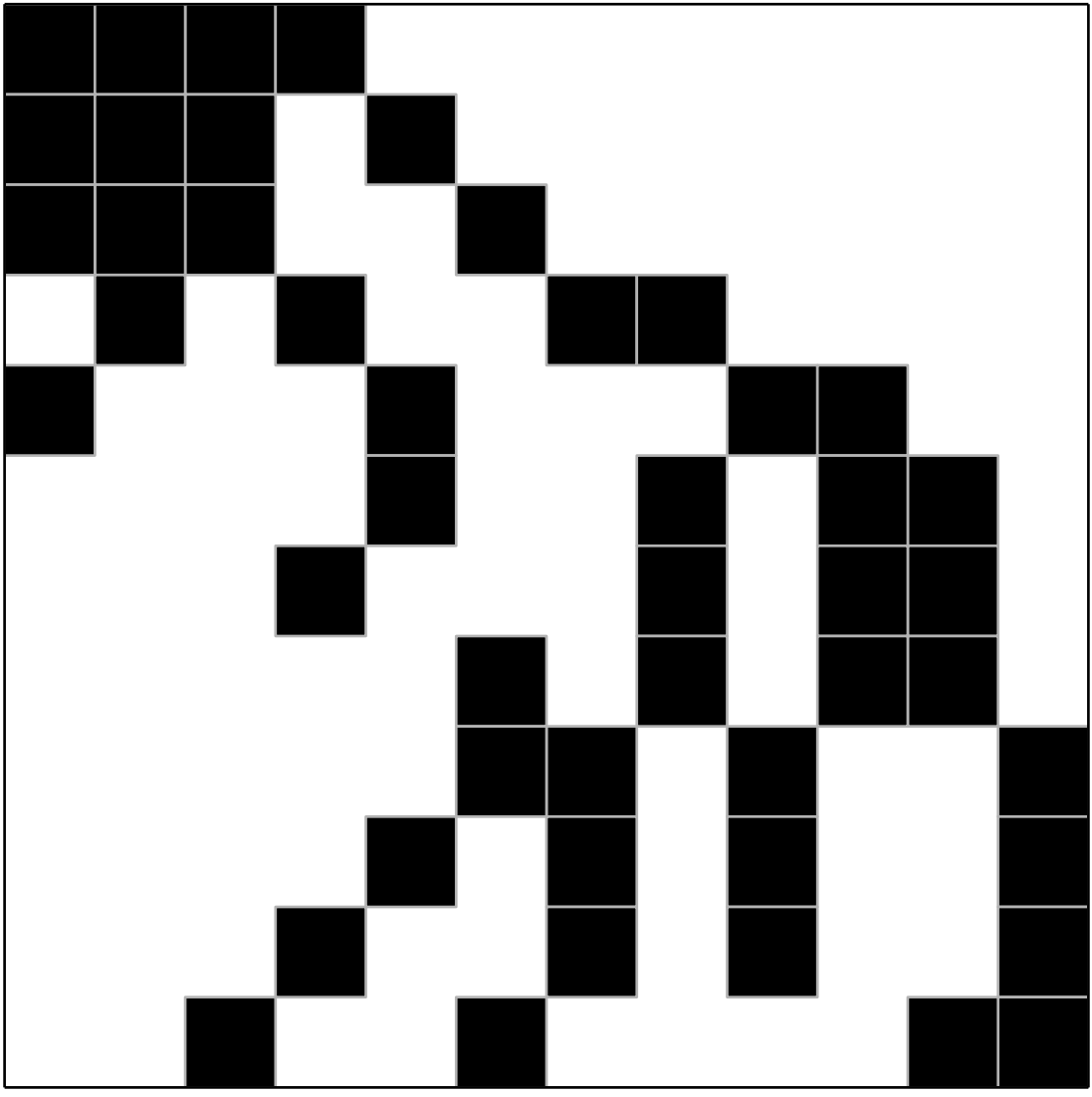
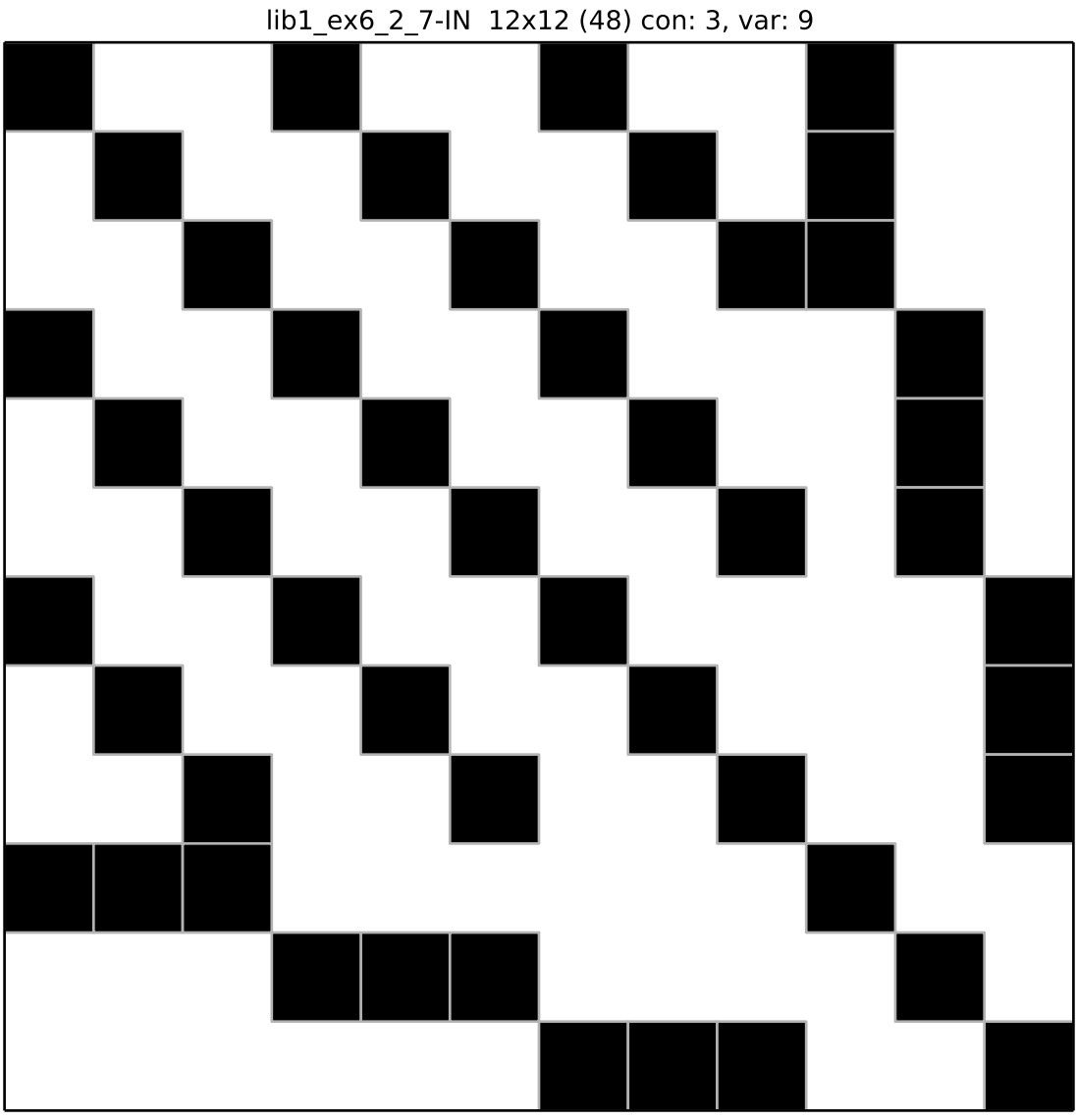
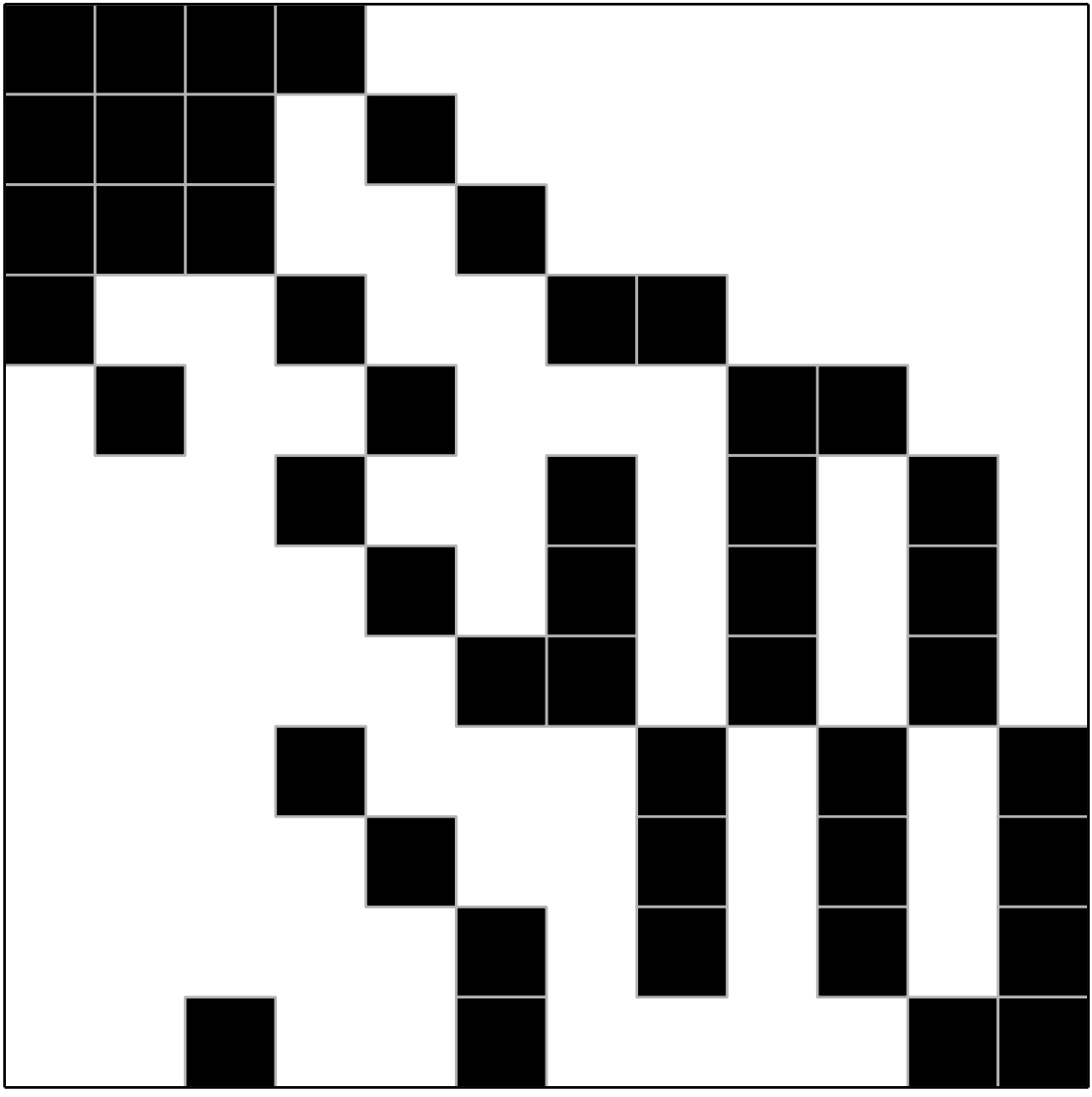
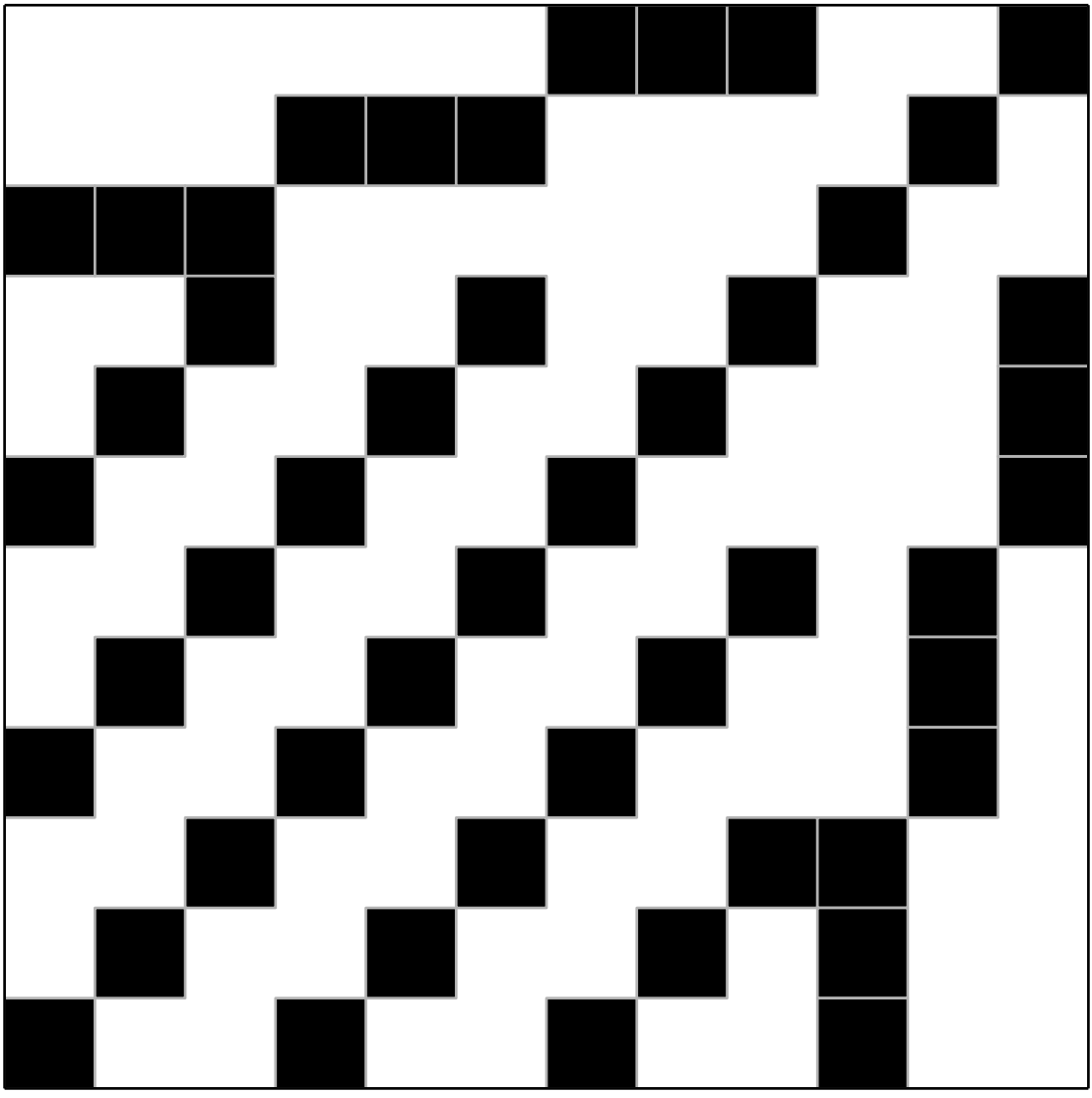



lib1_ex6_2_7-IN 12x12 (48) con: 3, var: 9

lib1_ex6_2_7-IN, cost: 5, diff: 5, explored: 25, time: 0.00s



lib1_ex6_2_7-RE 12x12 (48) con: 3, var: 9



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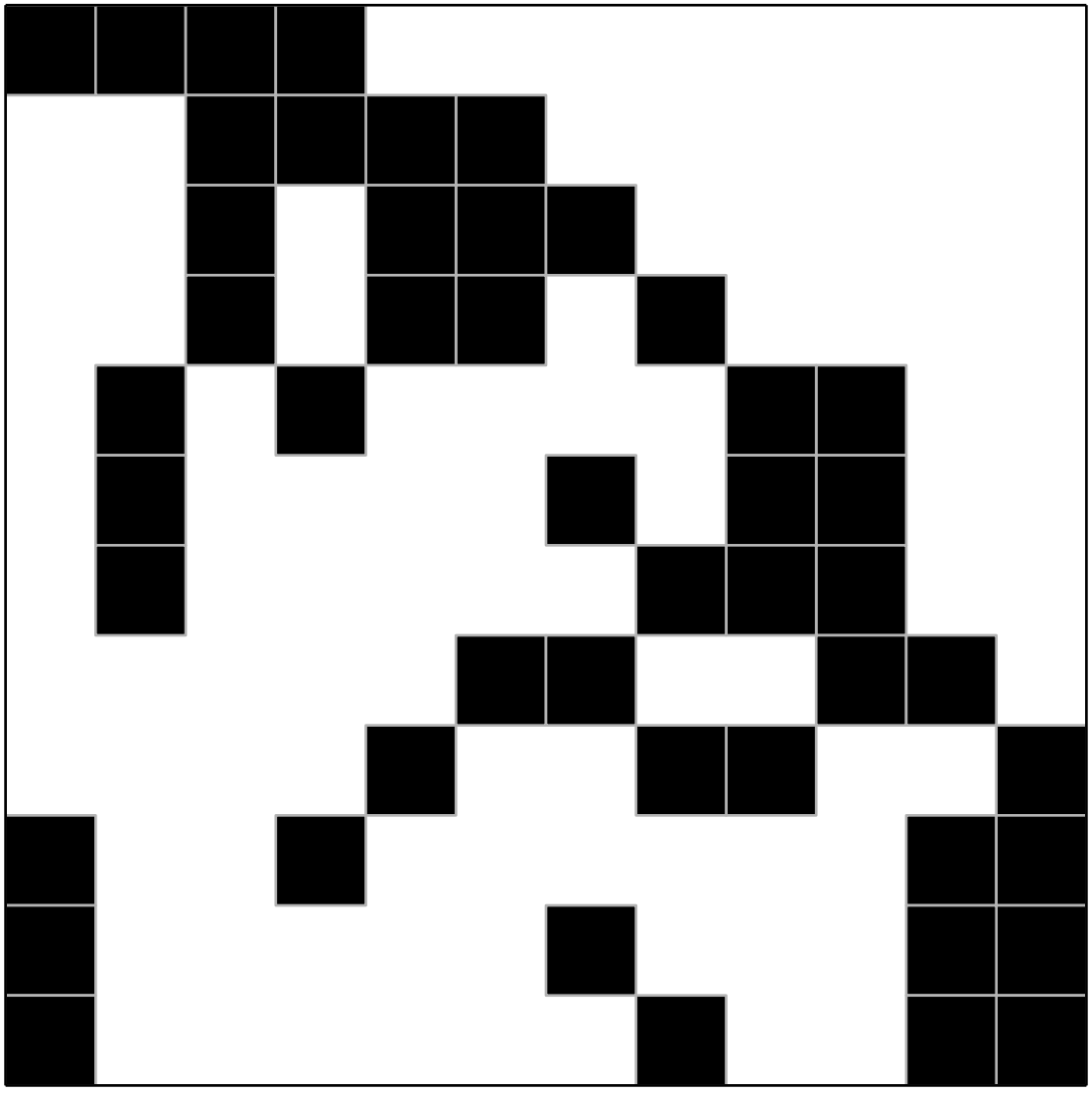
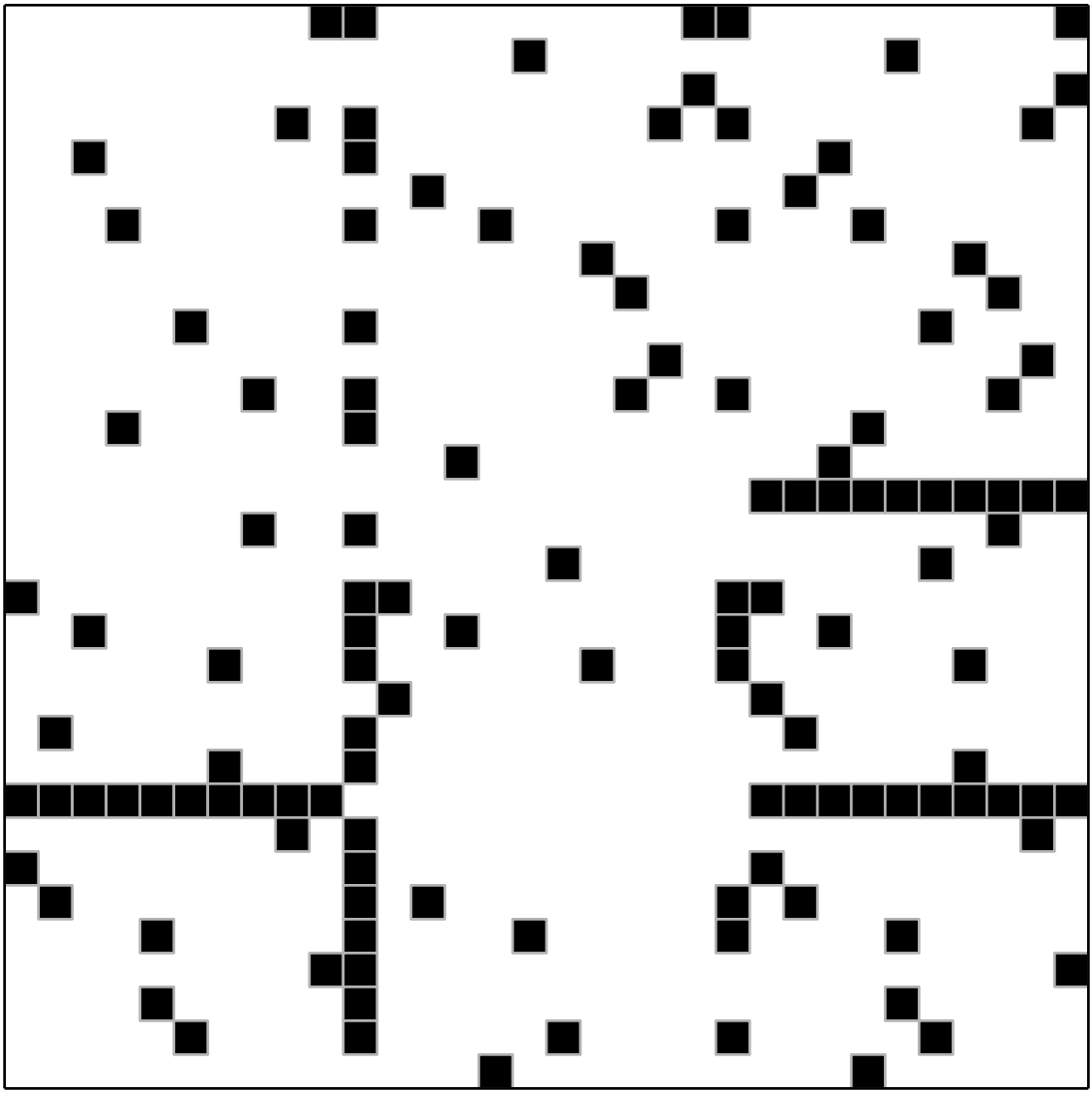
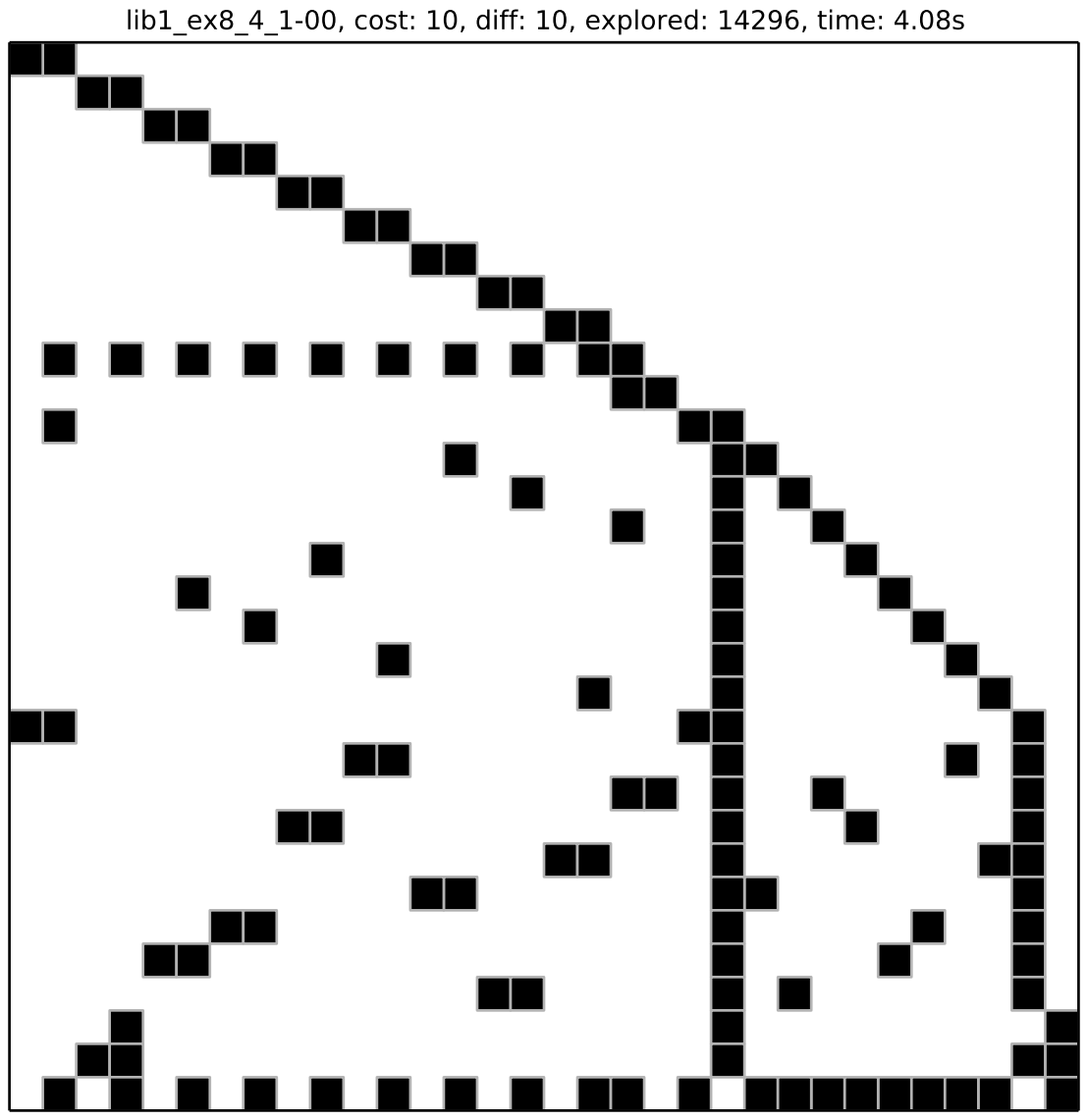
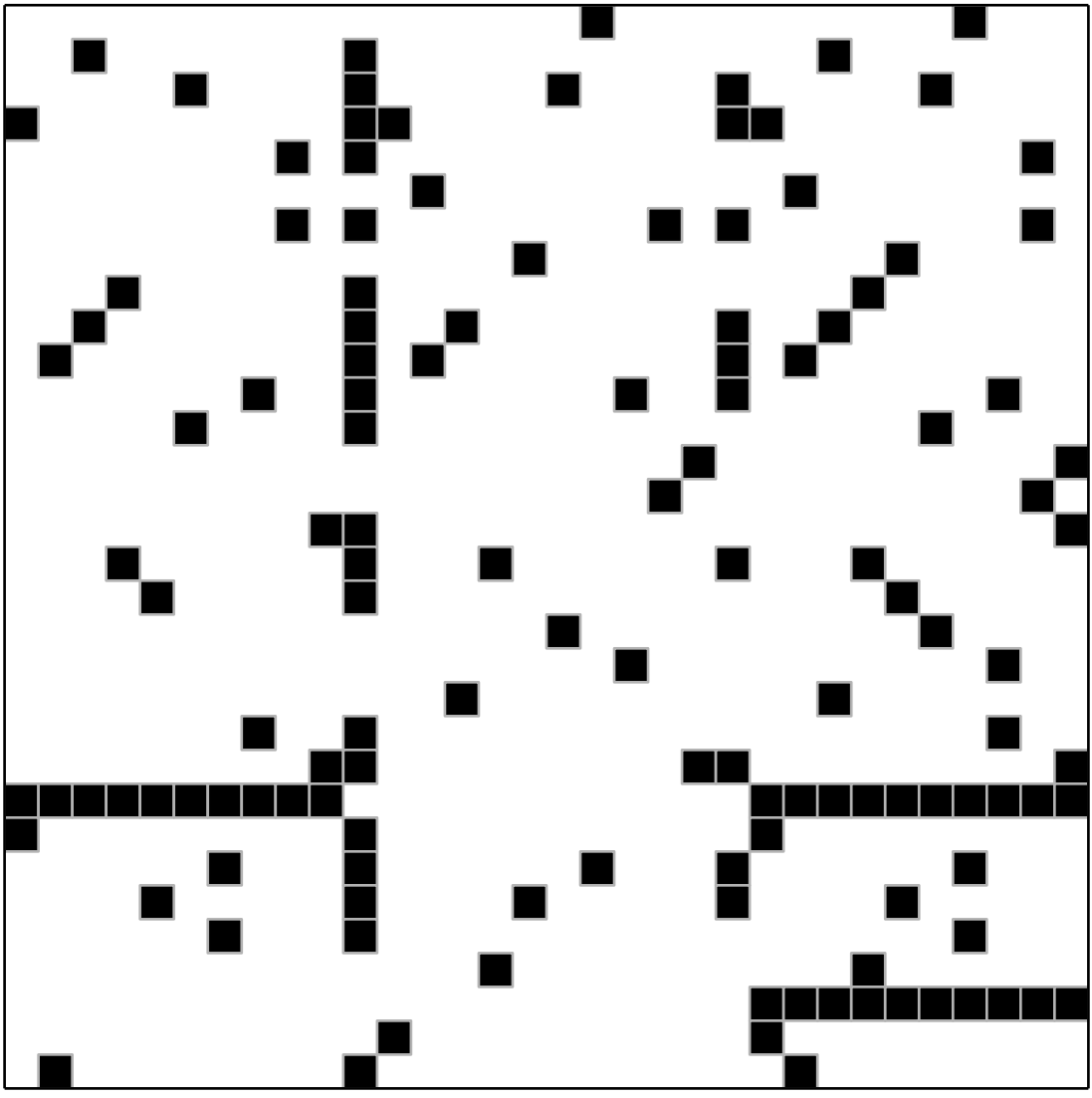


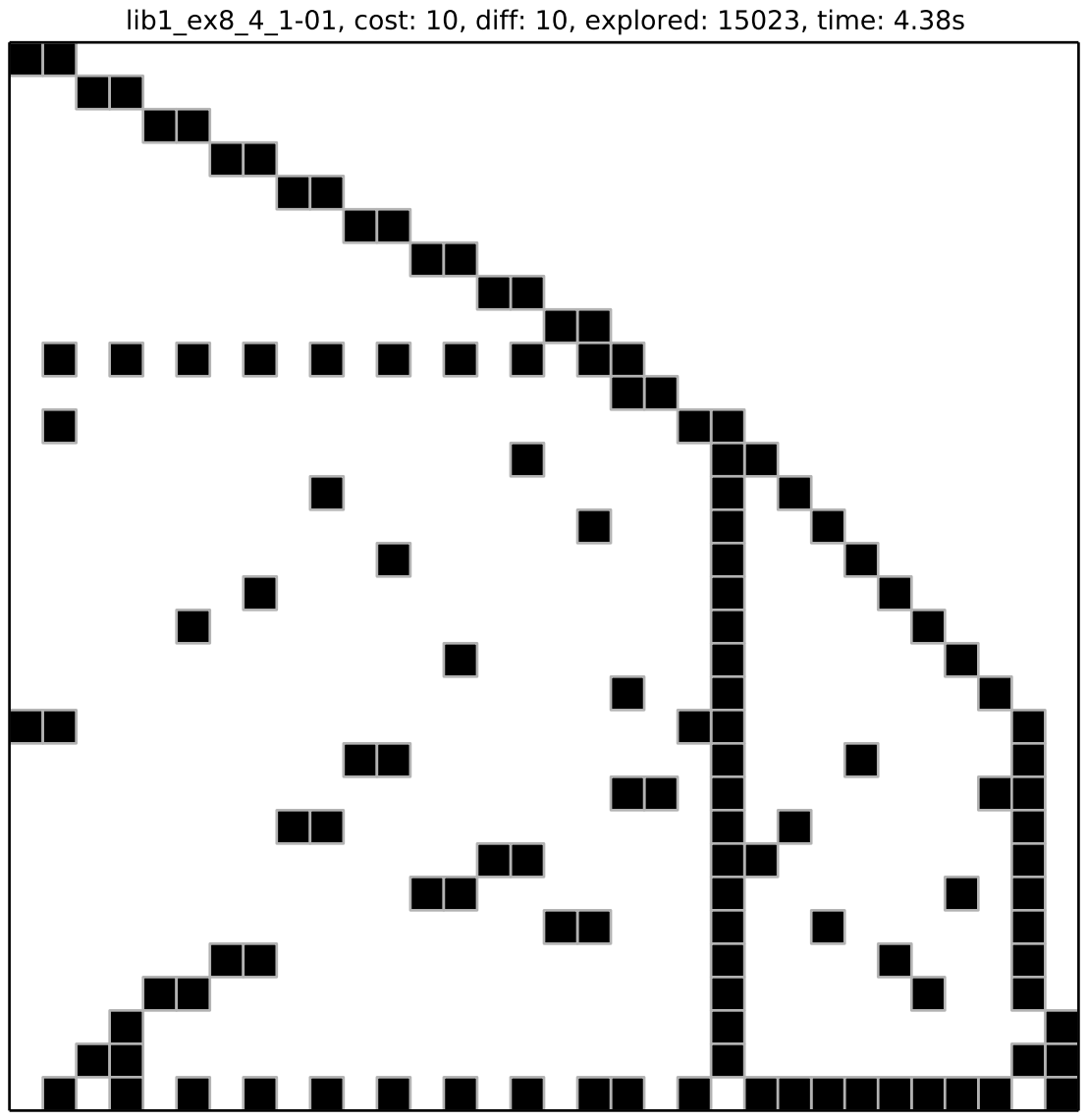
lib1_ex8_4_1-00 32x32 (130) con: 10, var: 22



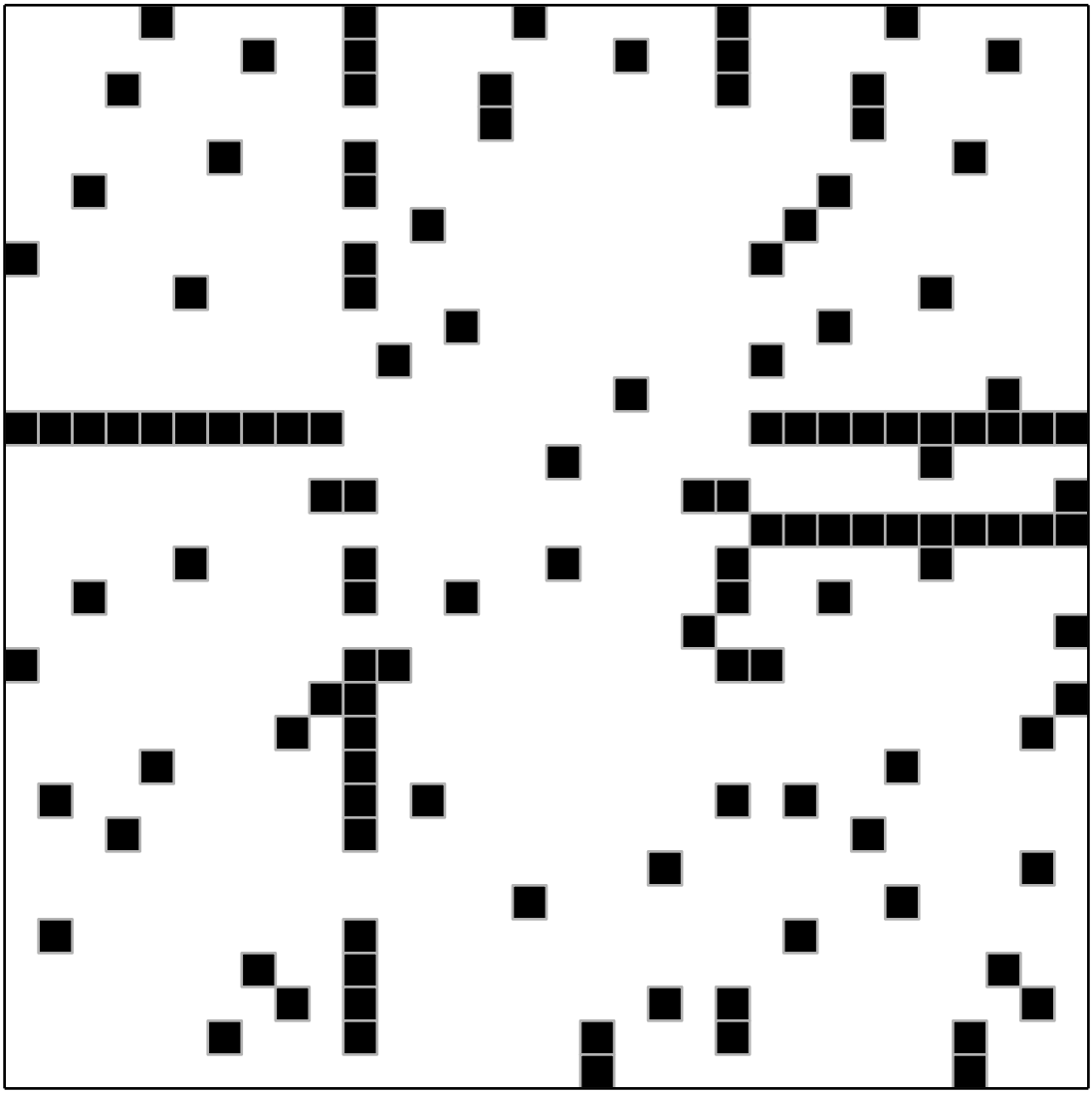

lib1_ex8_4_1-00, cost: 10, diff: 10, explored: 14296, time: 4.08s

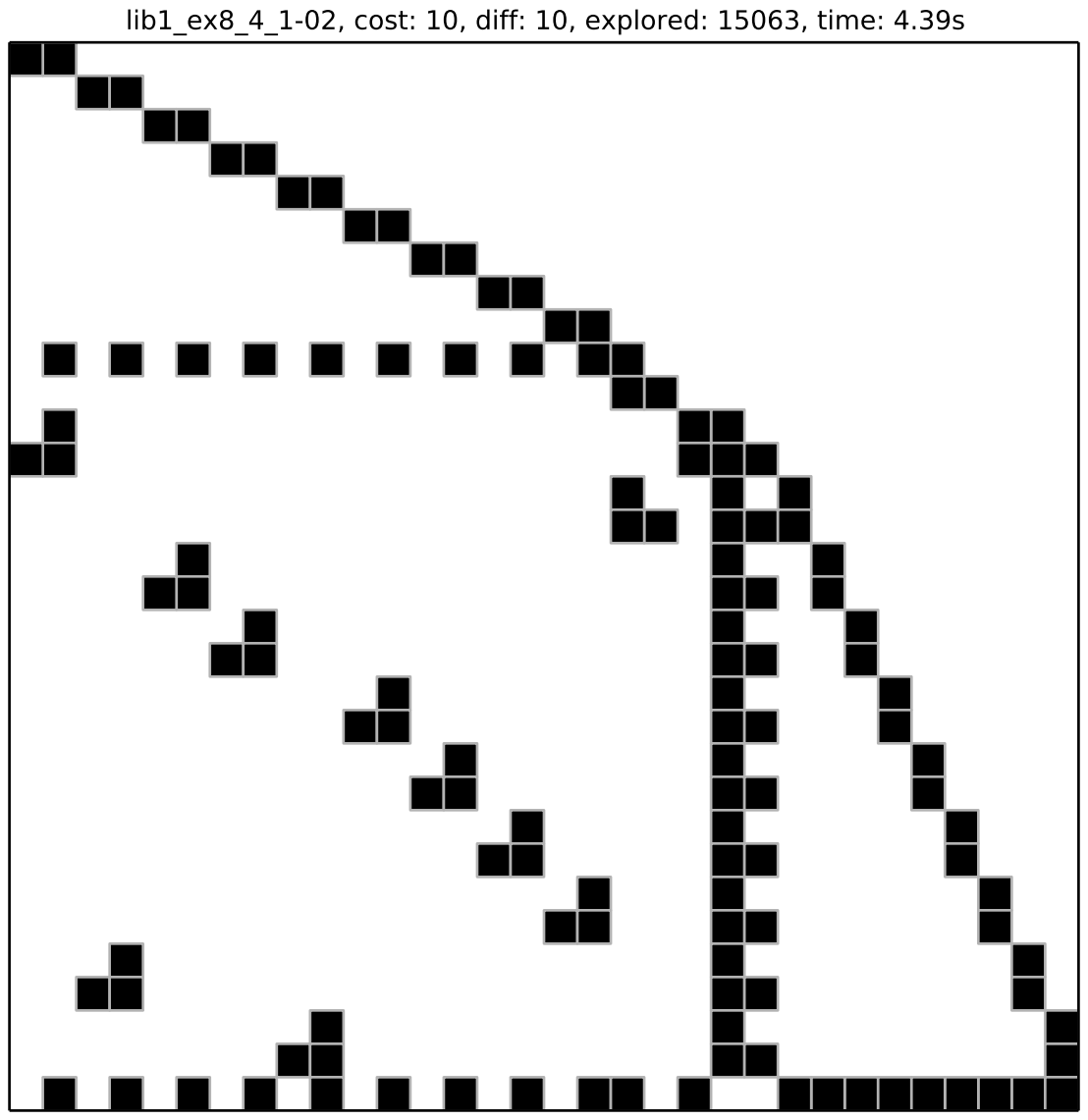
lib1_ex8_4_1-01 32x32 (130) con: 10, var: 22



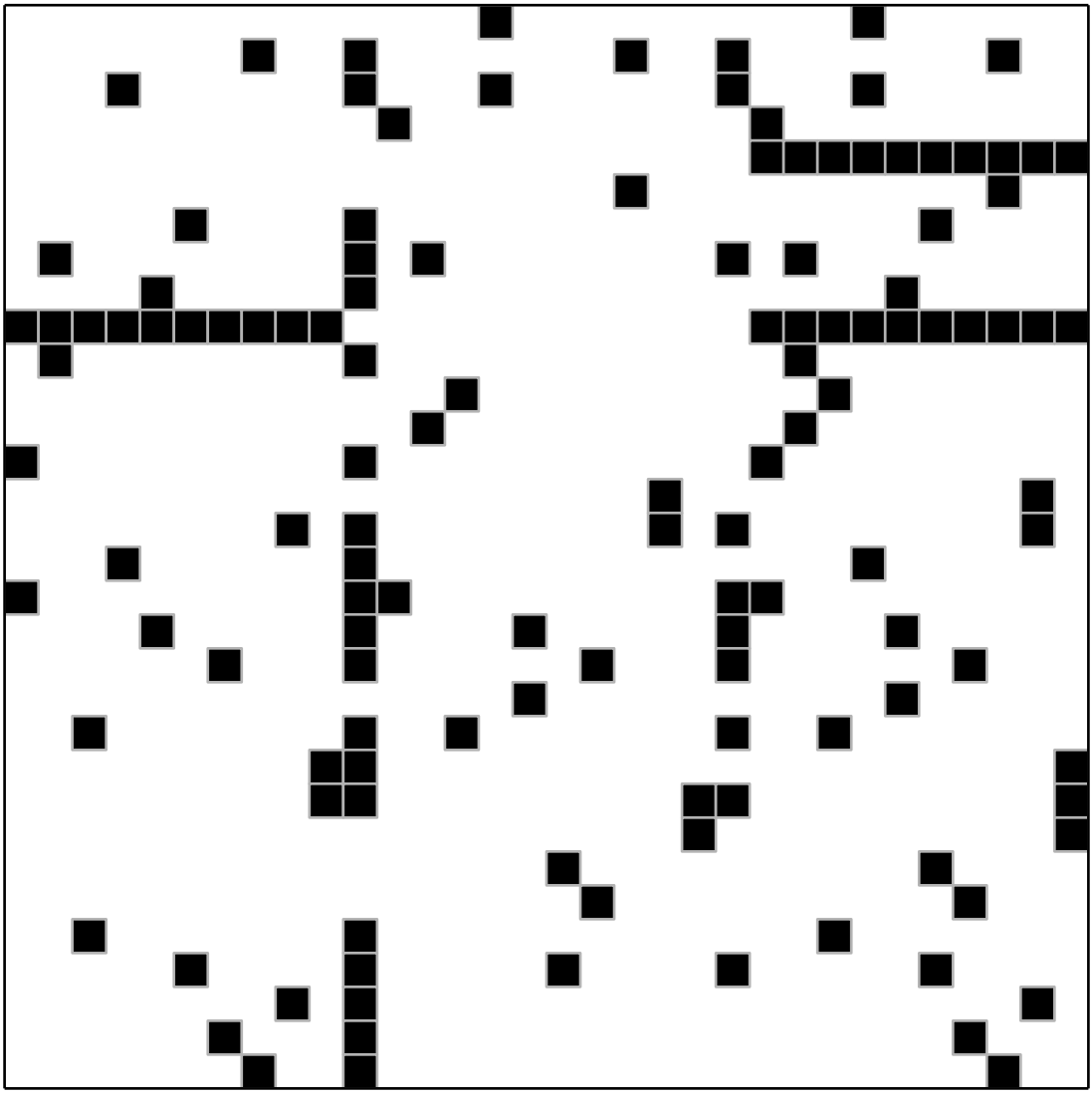

lib1_ex8_4_1-01, cost: 10, diff: 10, explored: 15023, time: 4.38s

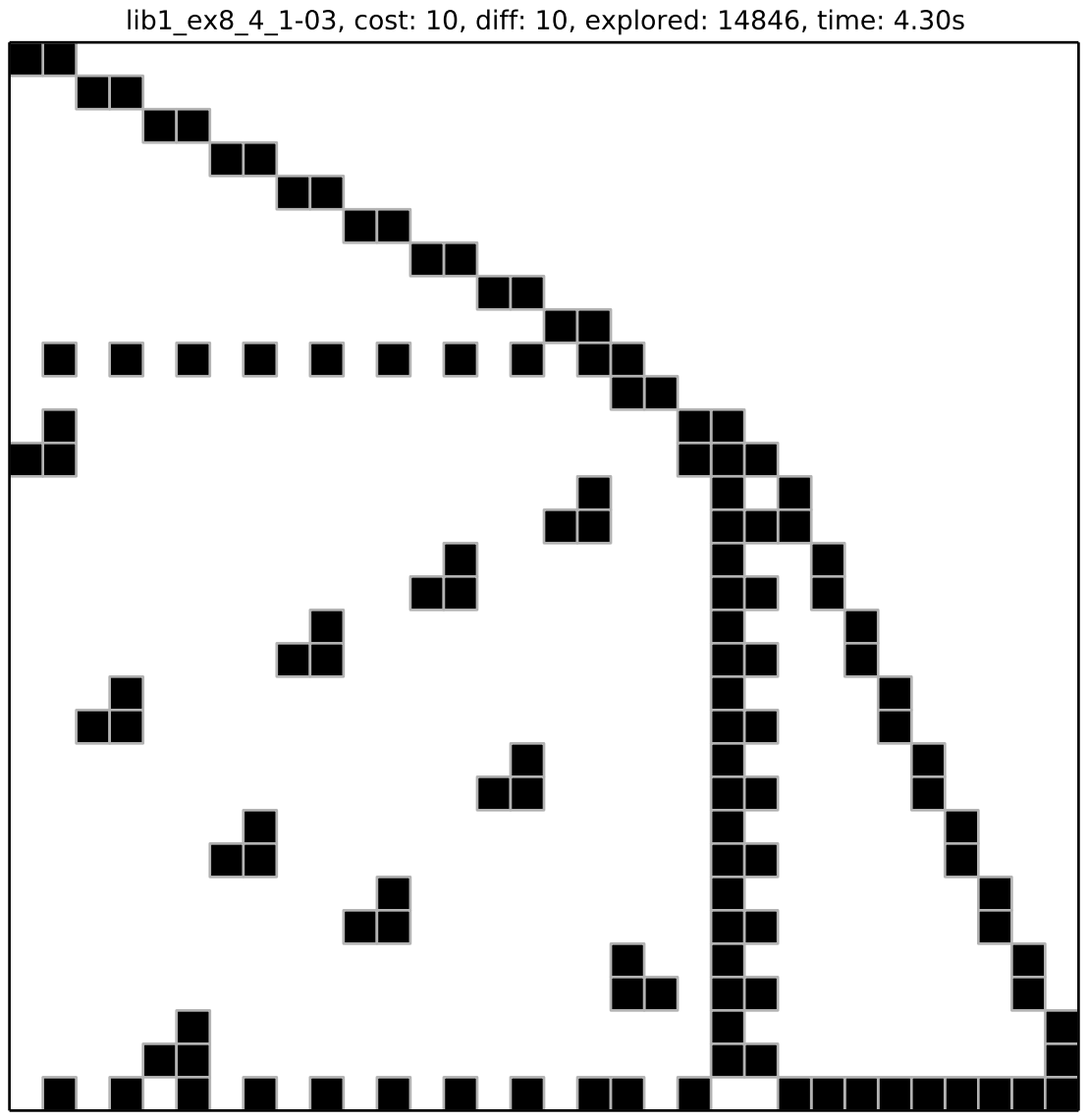
lib1_ex8_4_1-02 32x32 (130) con: 10, var: 22



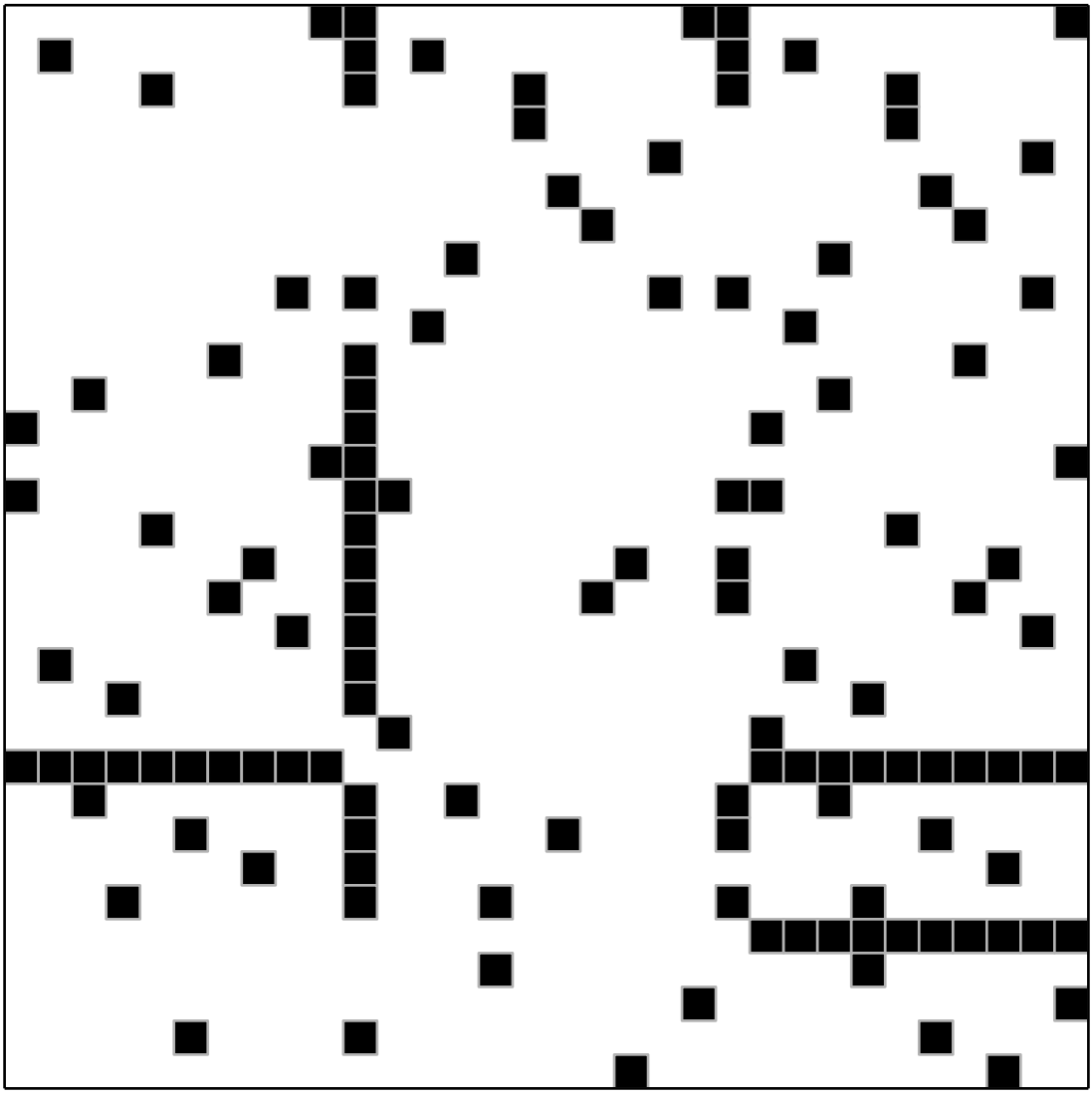

lib1_ex8_4_1-02, cost: 10, diff: 10, explored: 15063, time: 4.39s

lib1_ex8_4_1-03 32x32 (130) con: 10, var: 22




lib1_ex8_4_1-03, cost: 10, diff: 10, explored: 14846, time: 4.30s

lib1_ex8_4_1-04 32x32 (130) con: 10, var: 22



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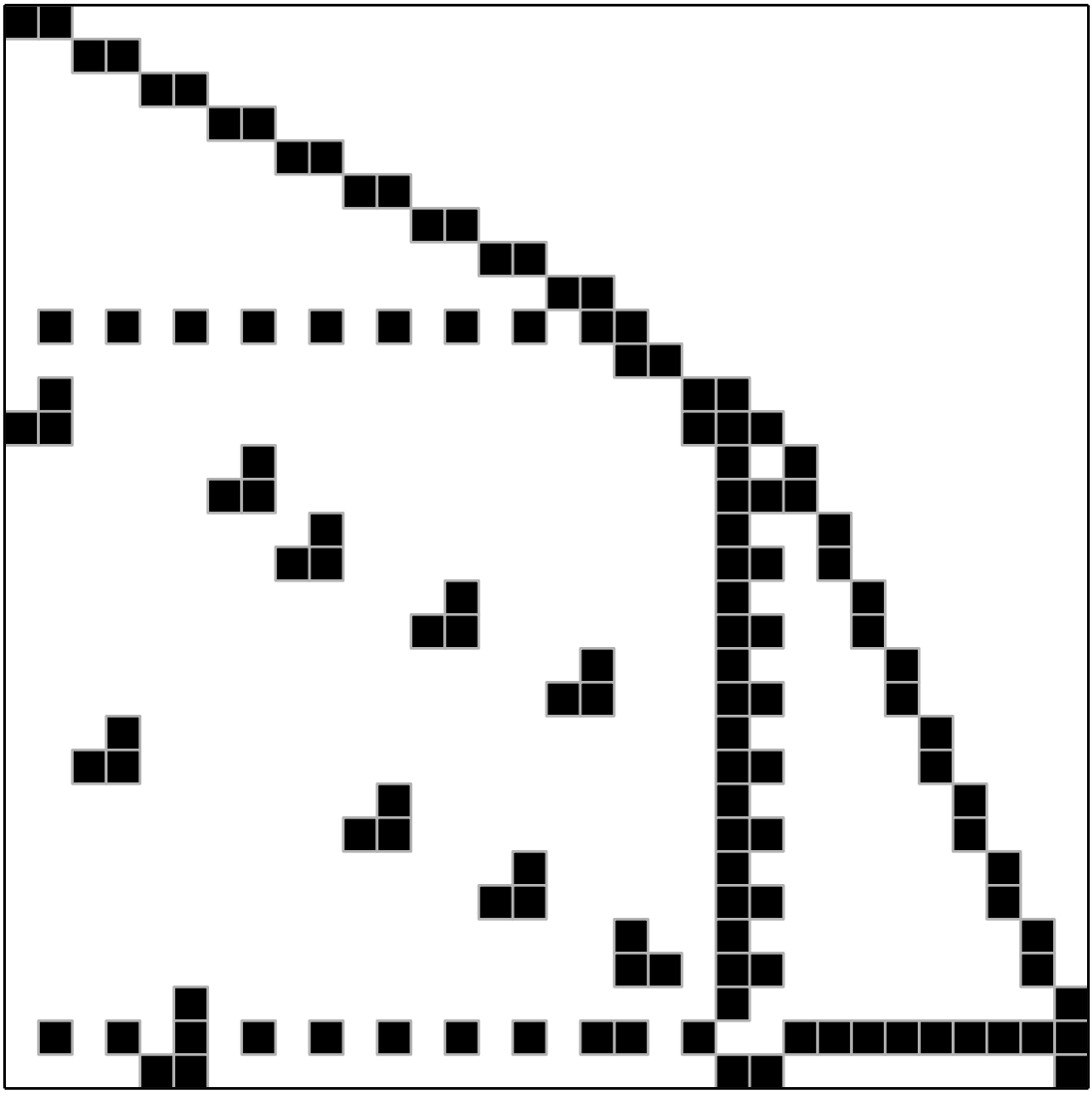
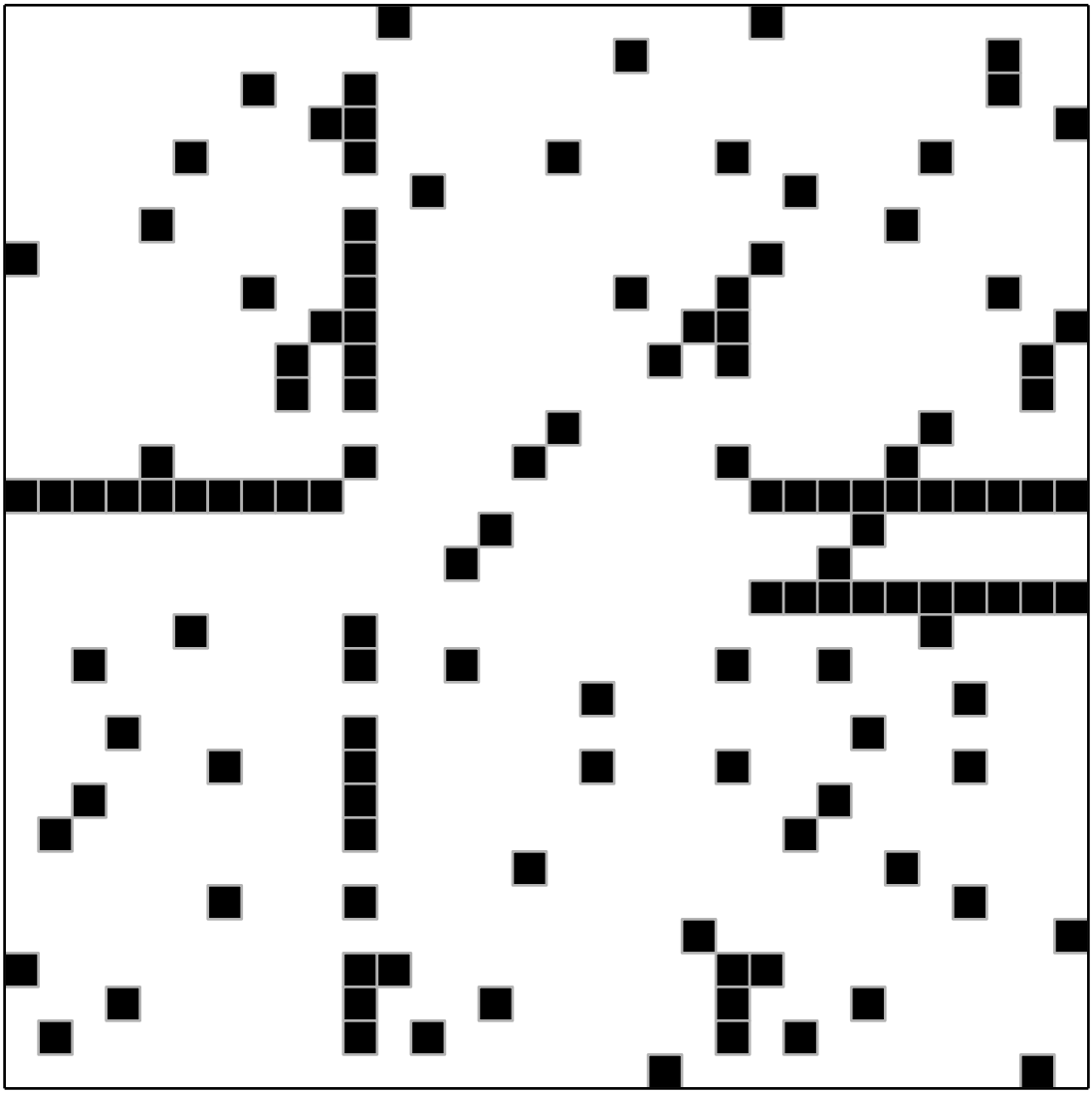
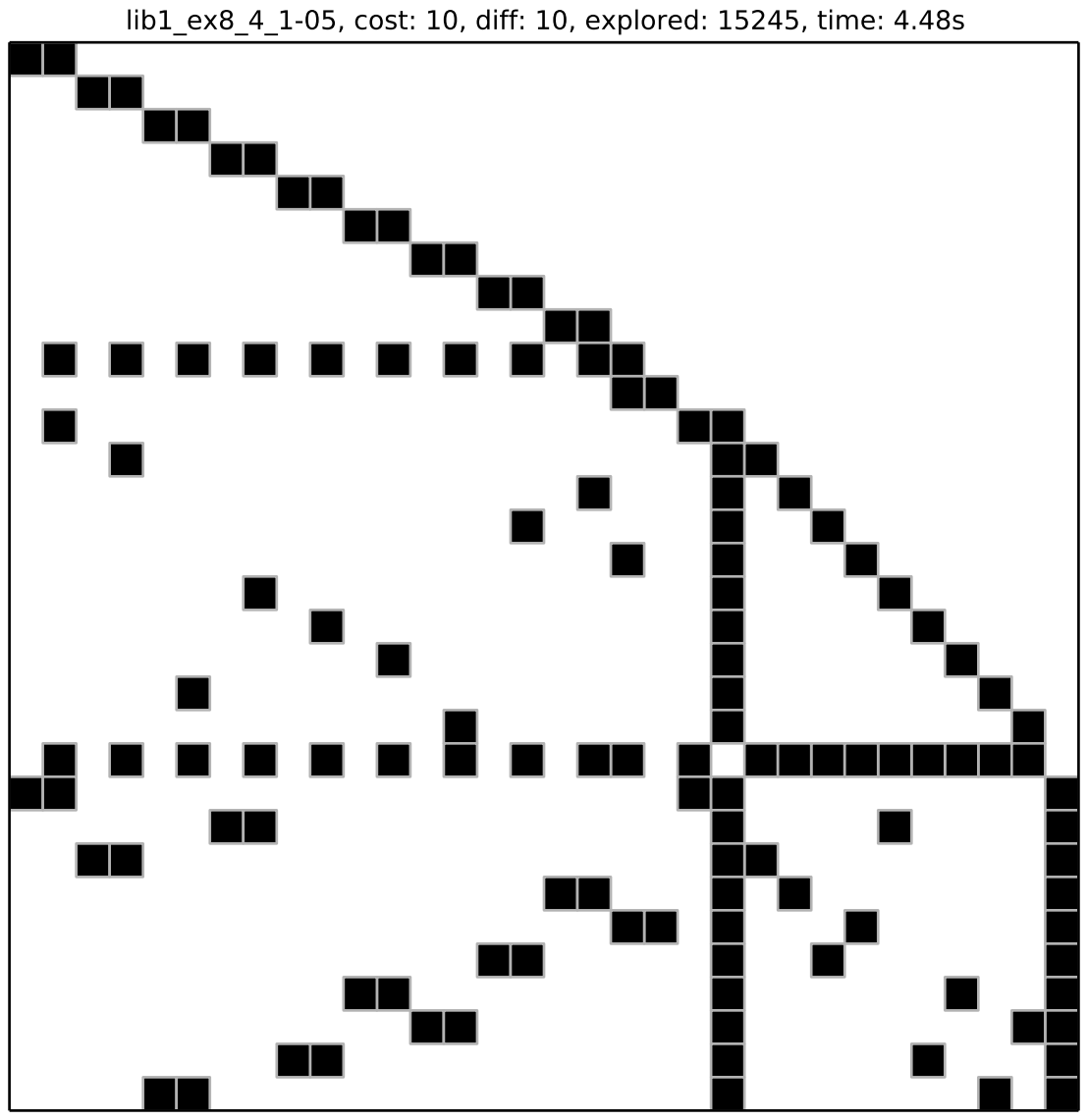
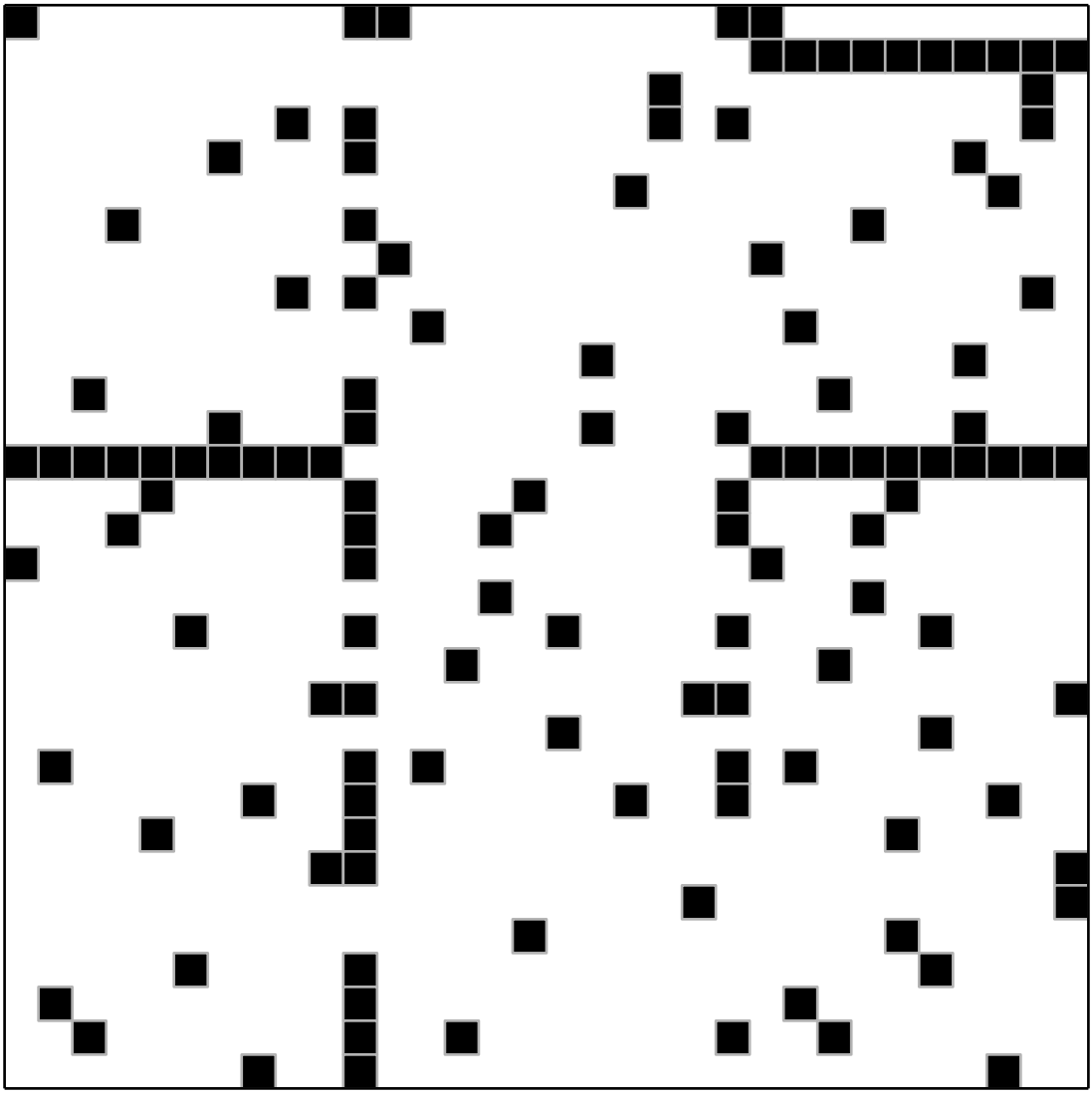


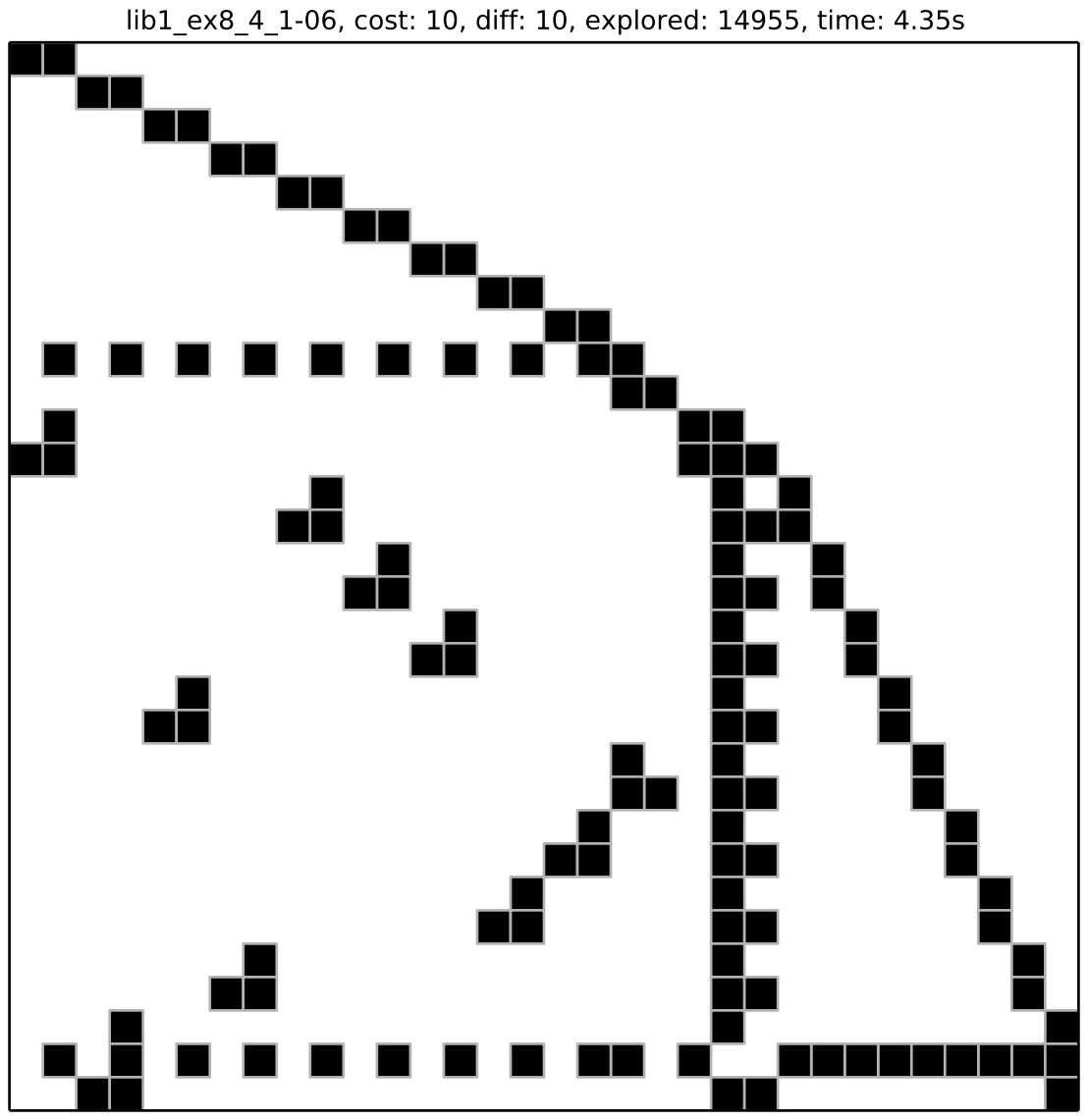
lib1_ex8_4_1-05 32x32 (130) con: 10, var: 22




lib1_ex8_4_1-05, cost: 10, diff: 10, explored: 15245, time: 4.48s

lib1_ex8_4_1-06 32x32 (130) con: 10, var: 22

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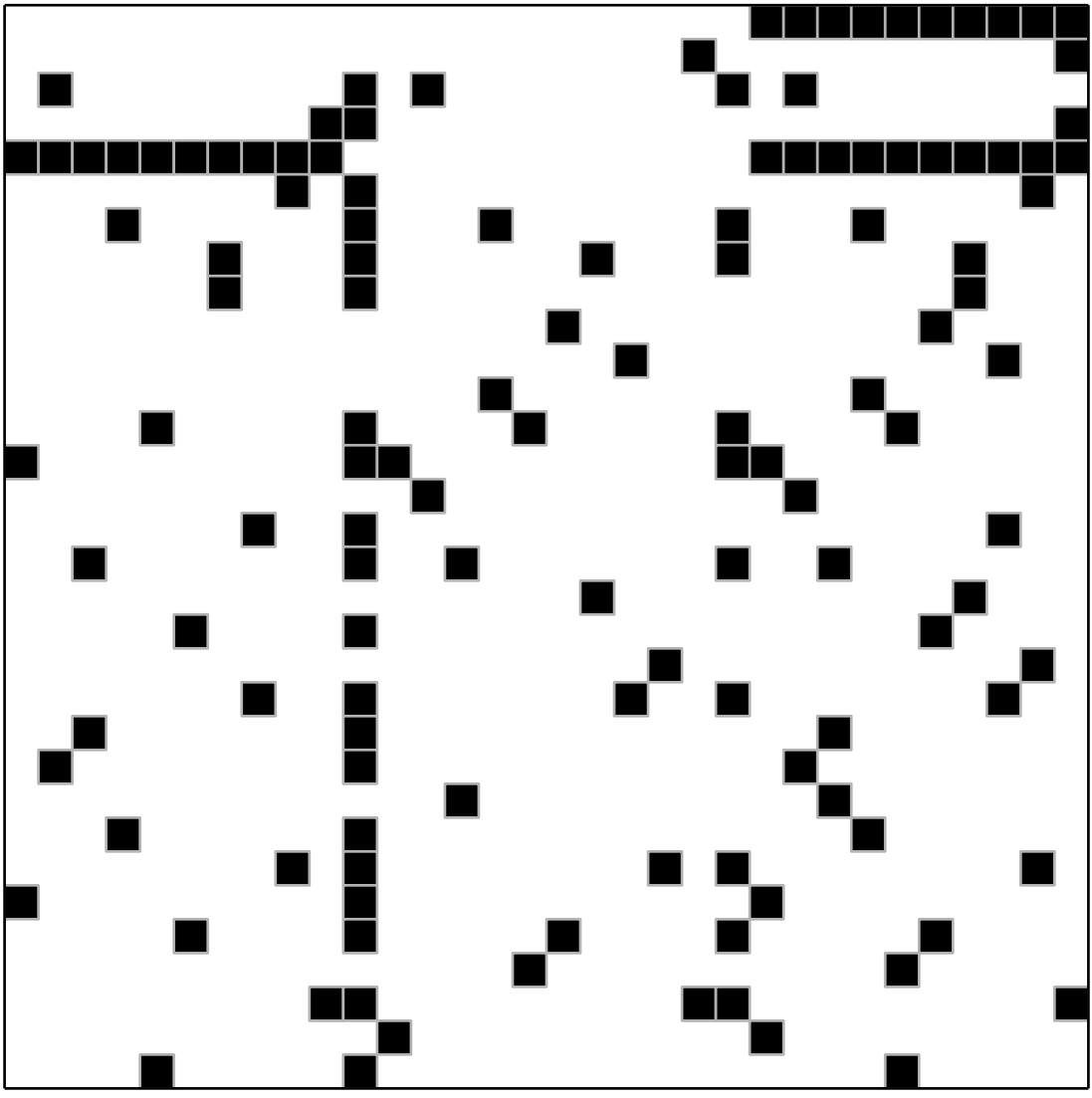
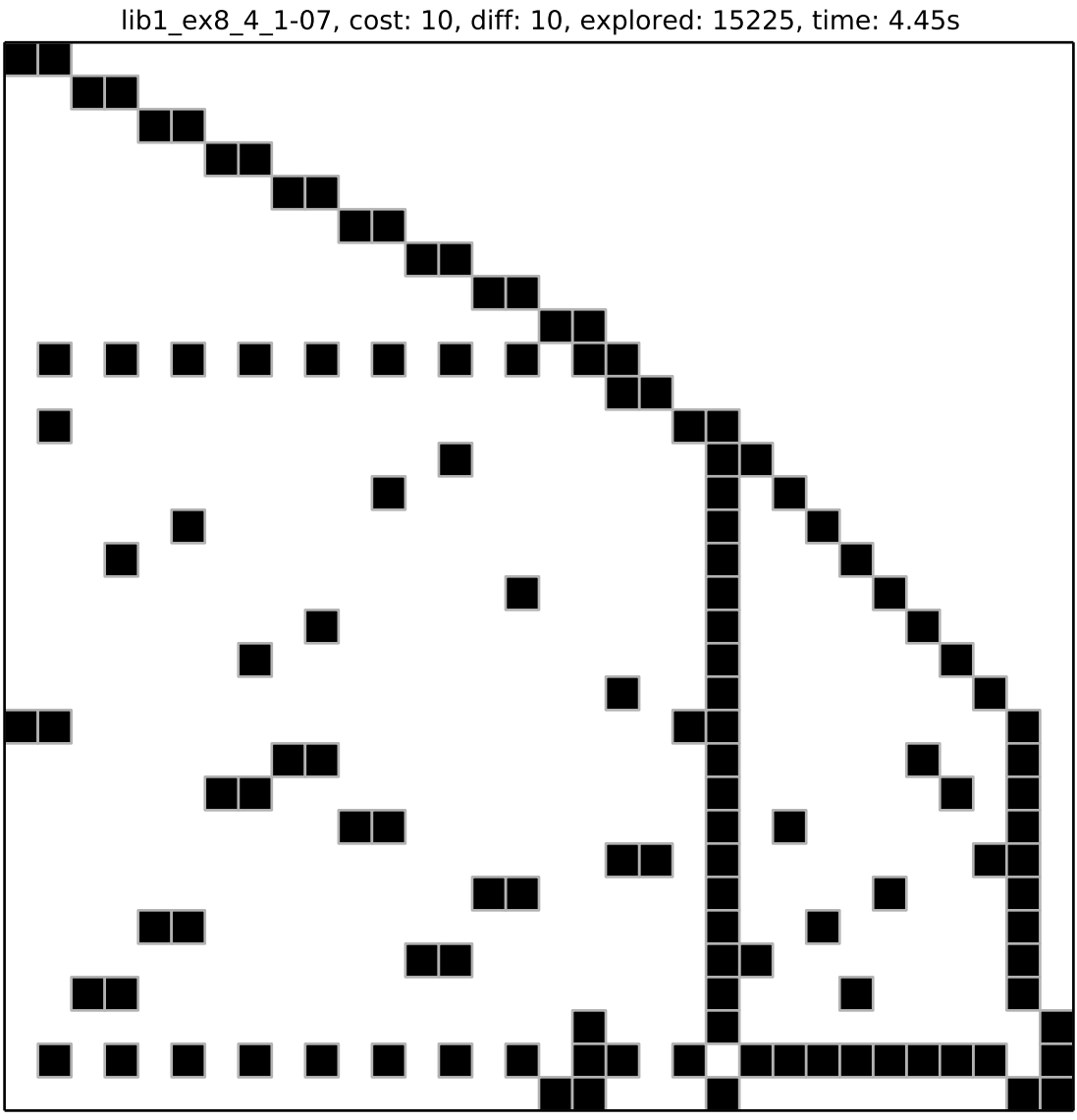
lib1_ex8_4_1-07 32x32 (130) con: 10, var: 22

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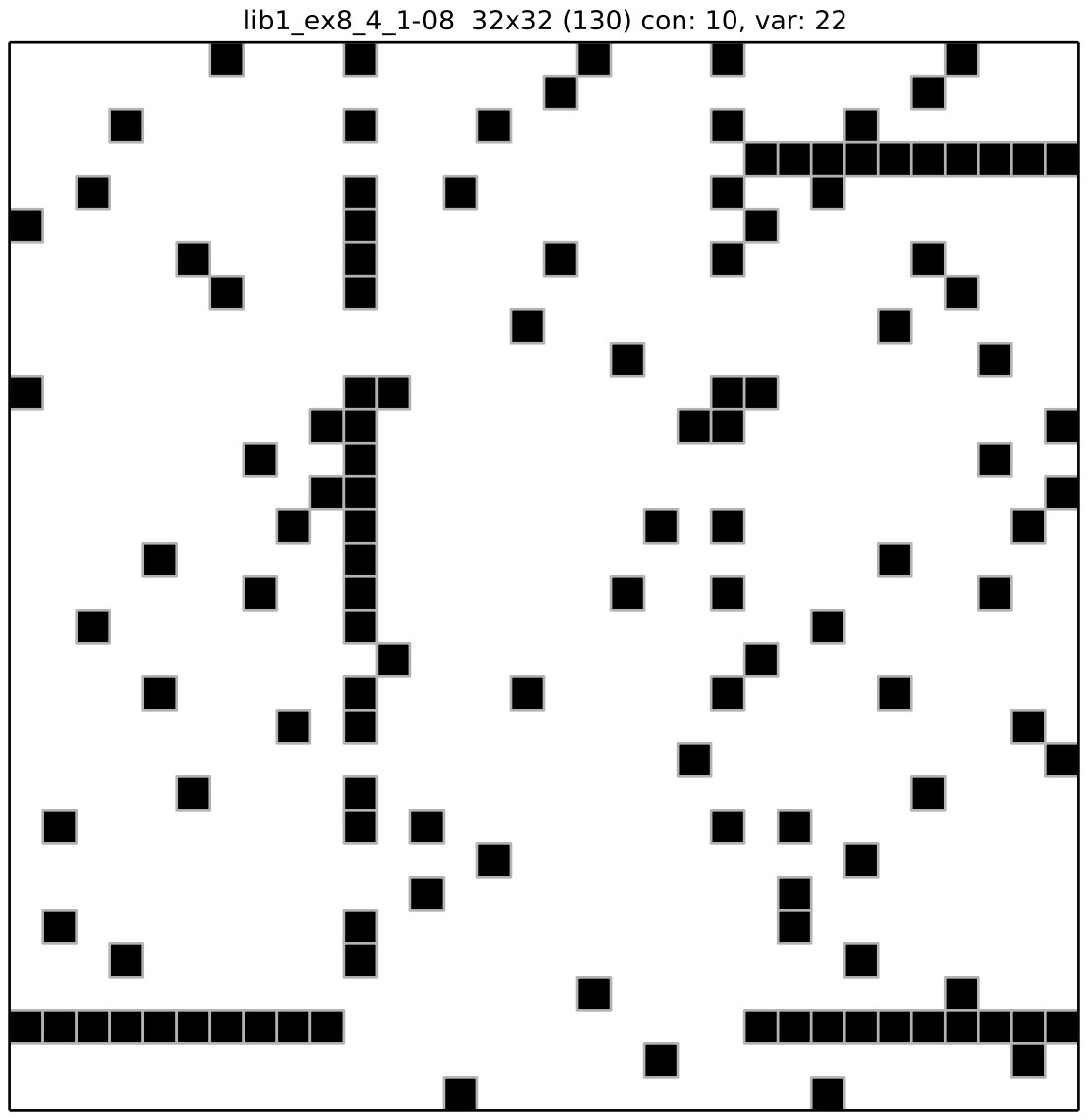
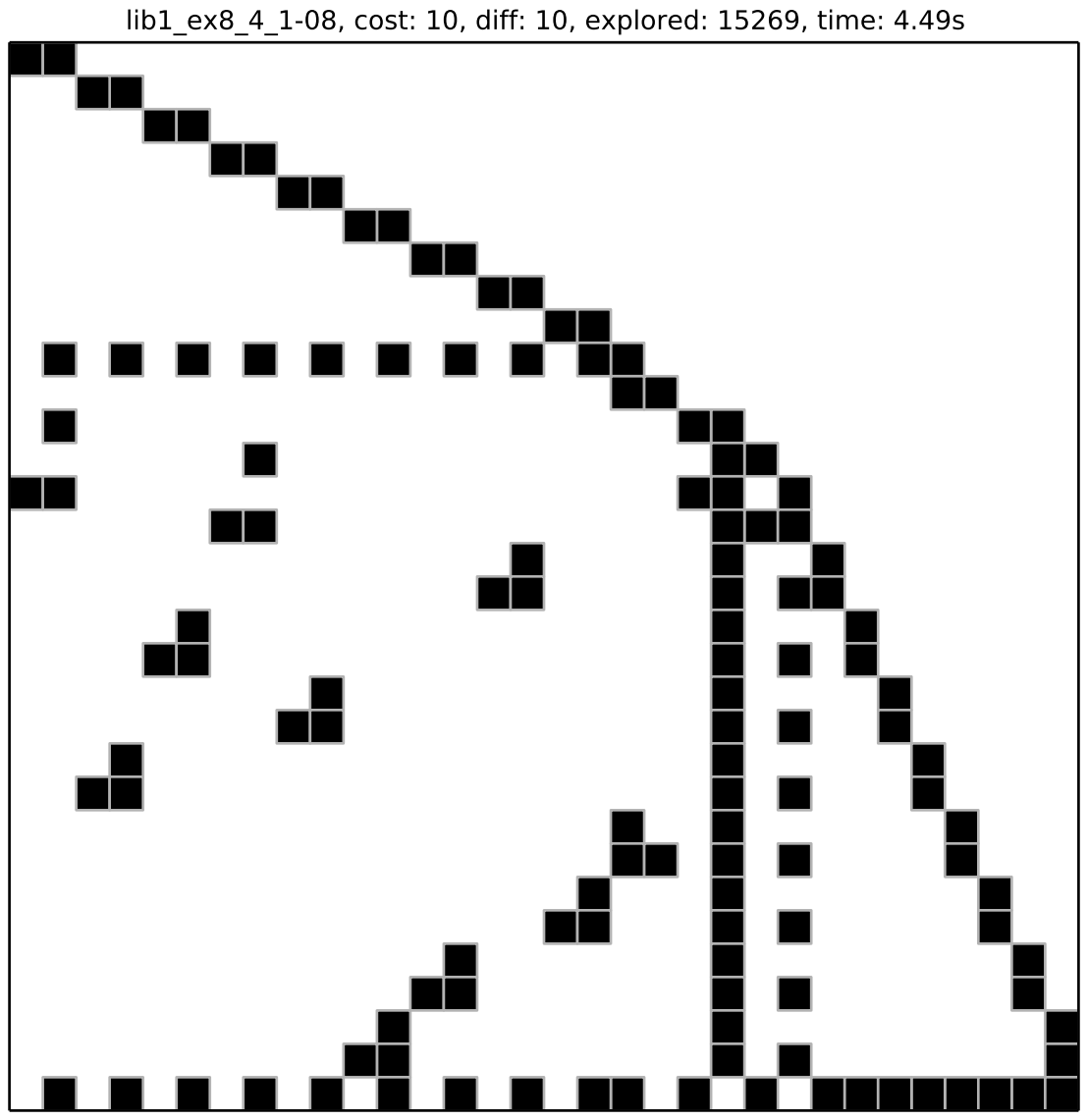
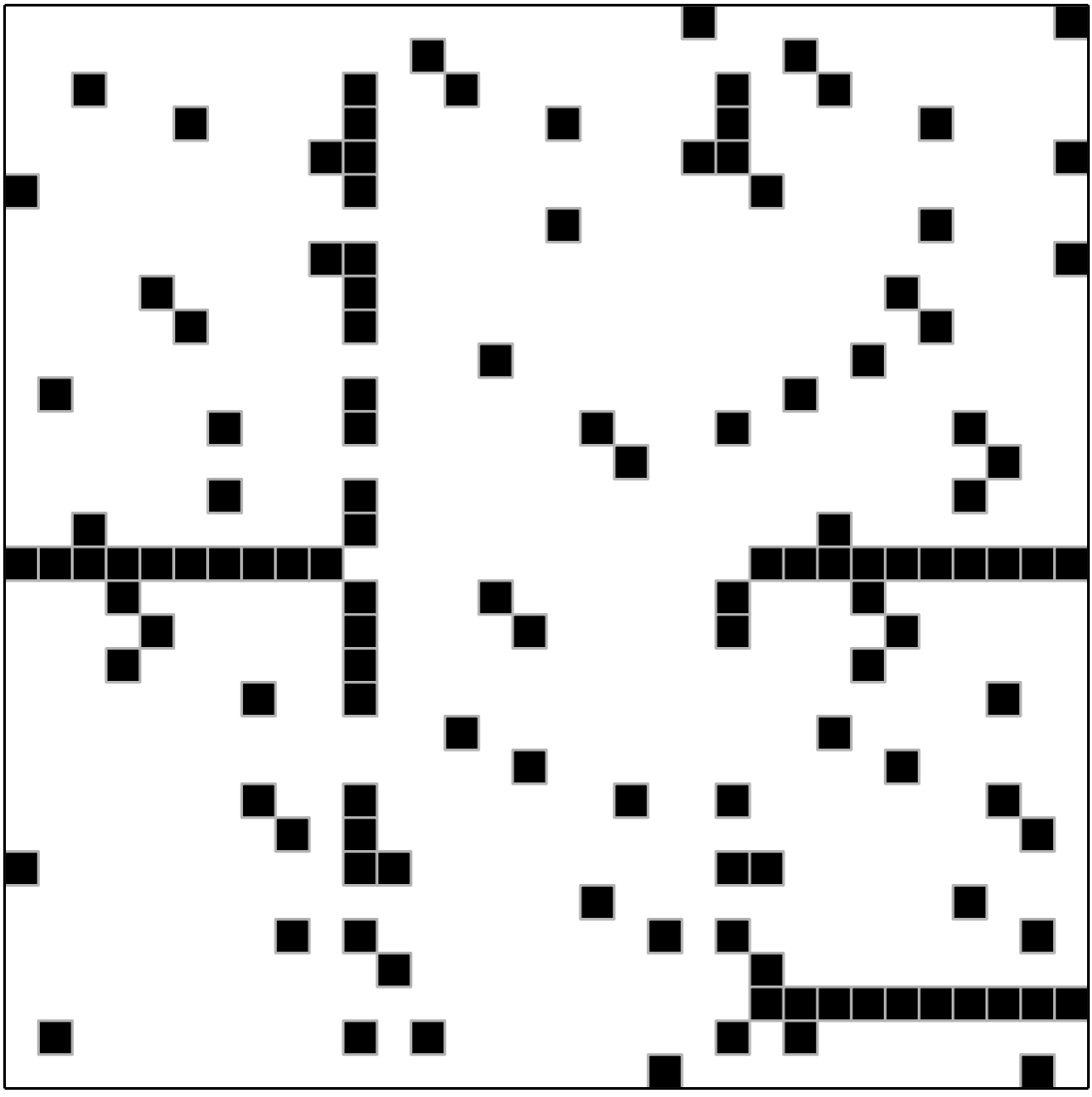
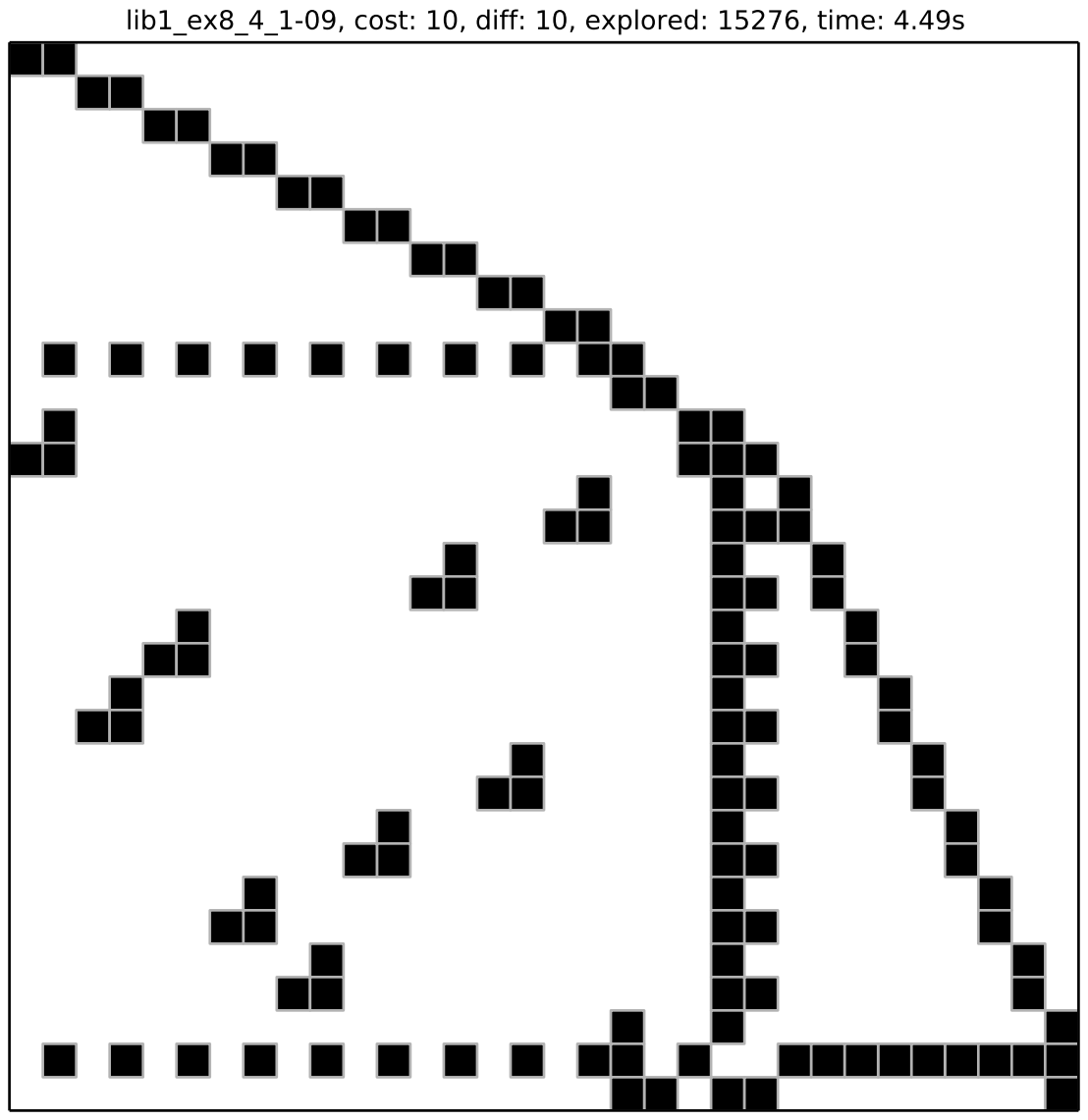

lib1_ex8_4_1-08 32x32 (130) con: 10, var: 22


lib1_ex8_4_1-08, cost: 10, diff: 10, explored: 15269, time: 4.49s

lib1_ex8_4_1-09 32x32 (130) con: 10, var: 22

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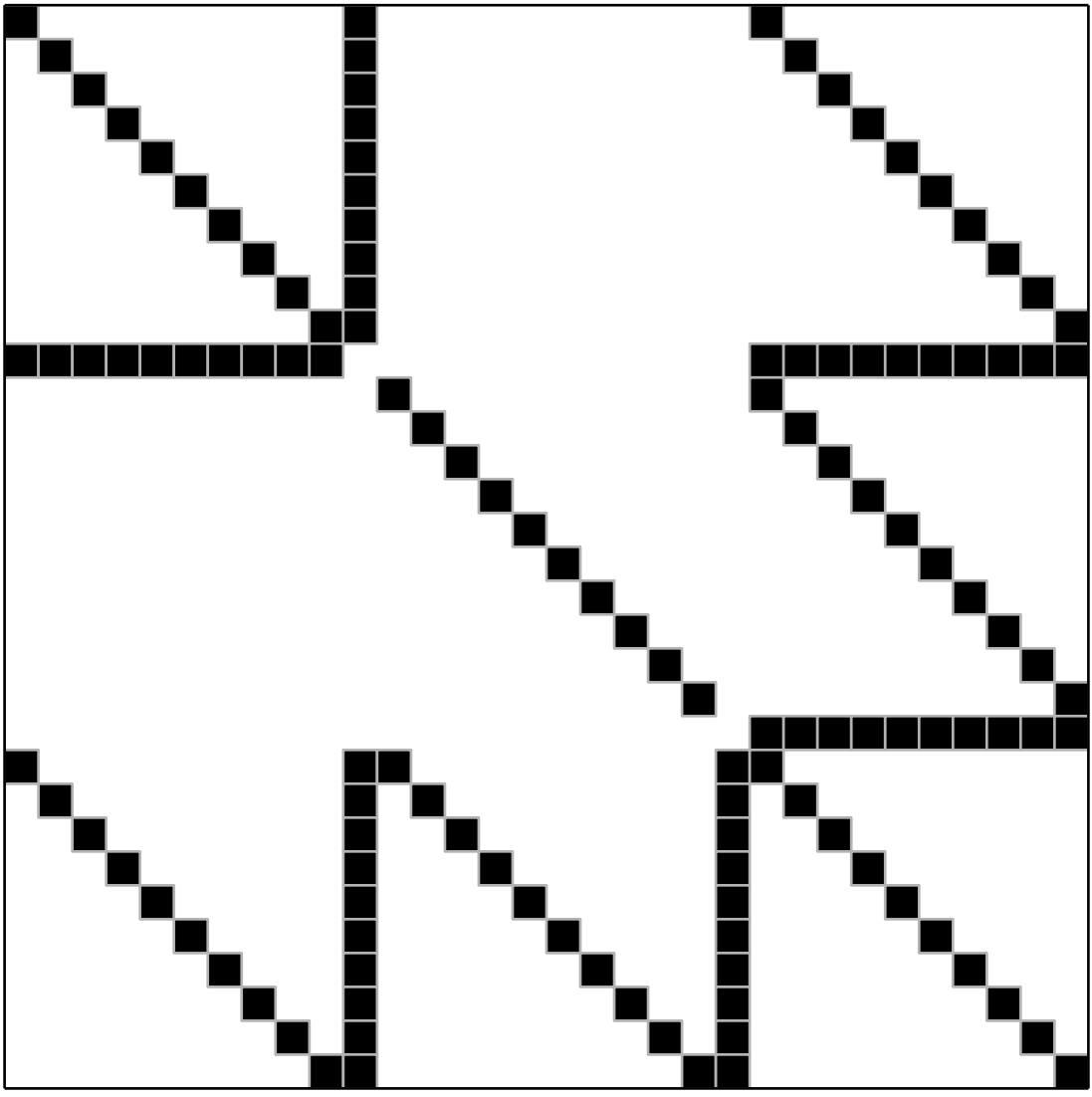
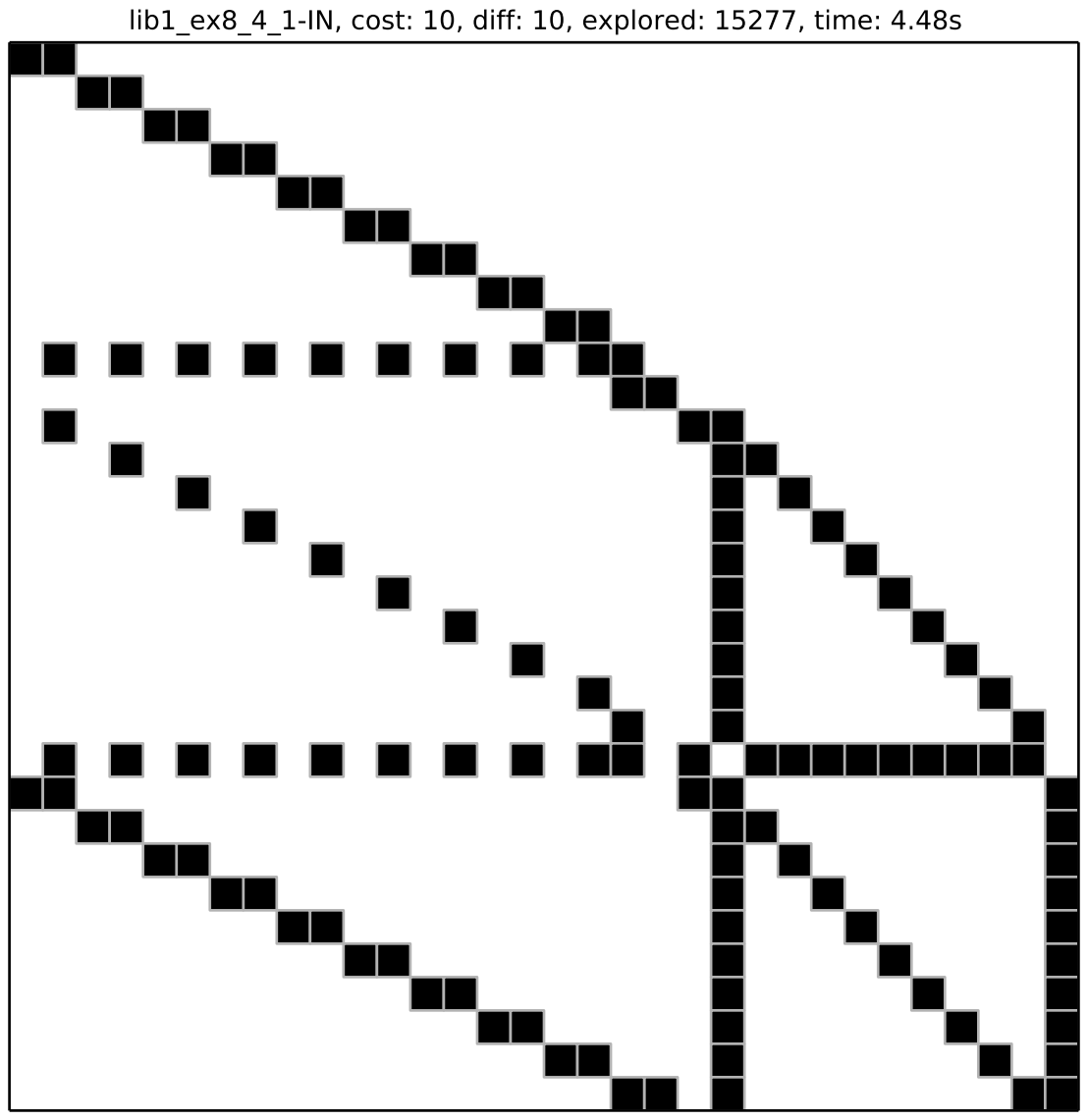
lib1_ex8_4_1-IN 32x32 (130) con: 10, var: 22

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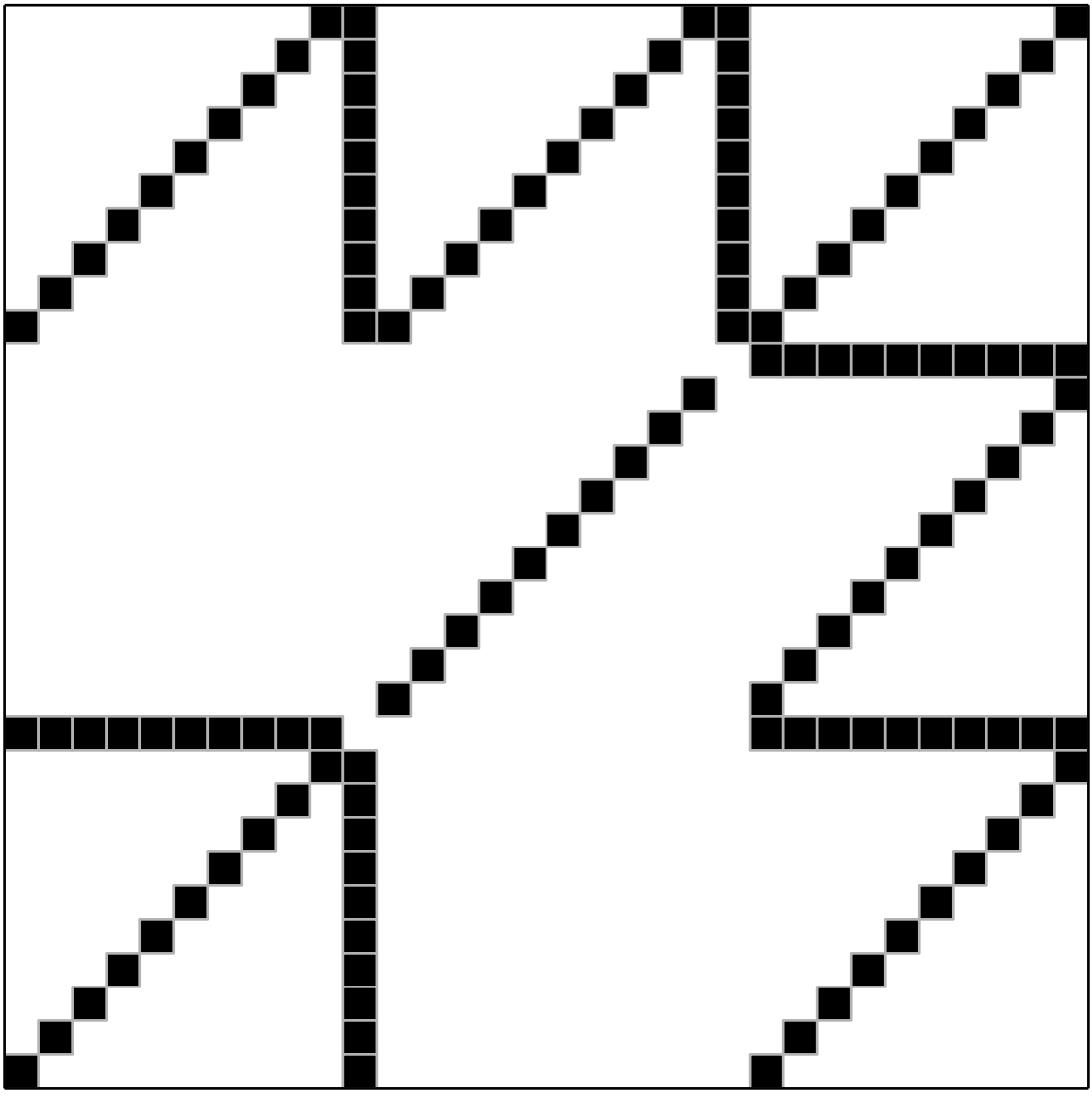
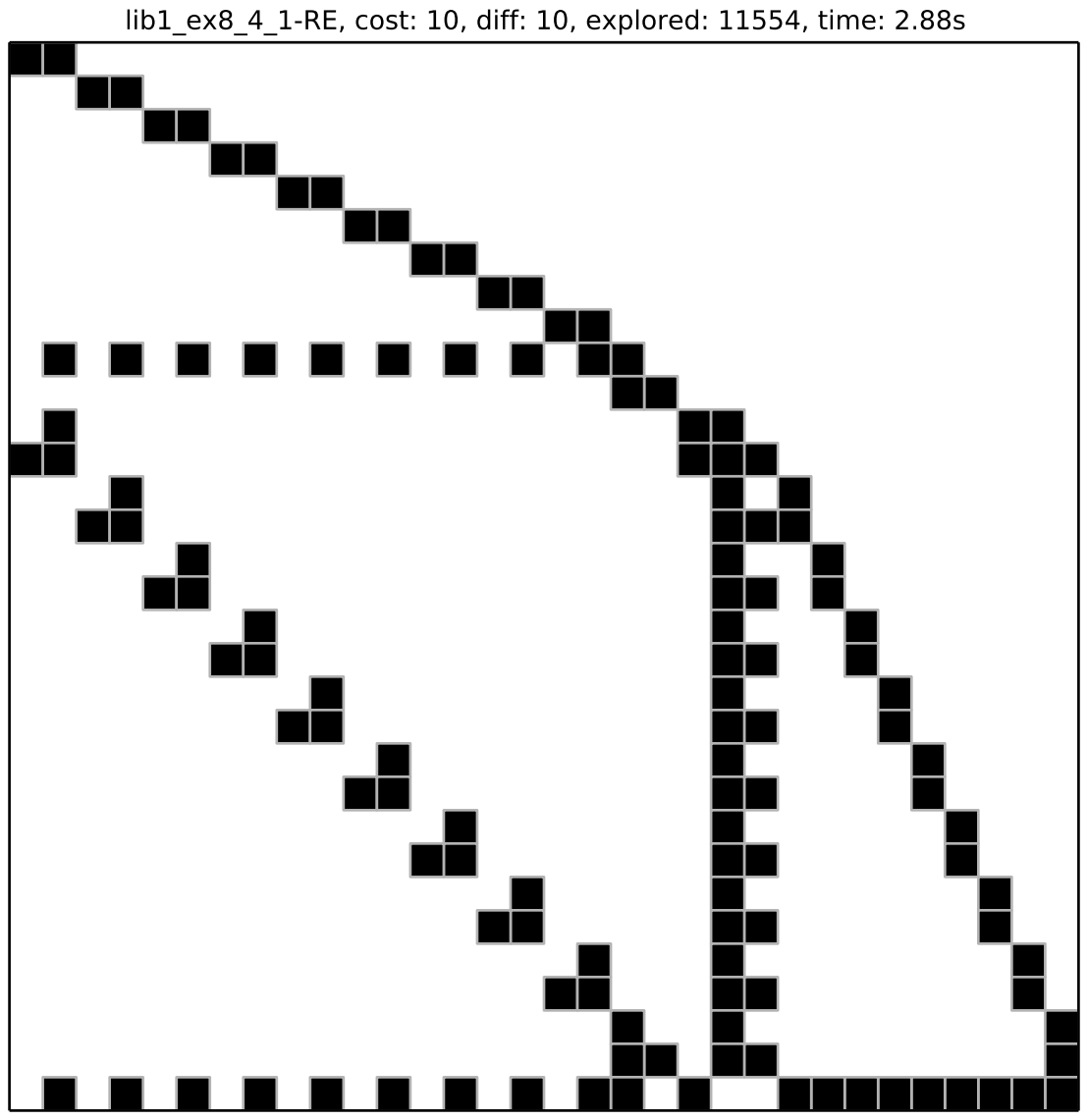
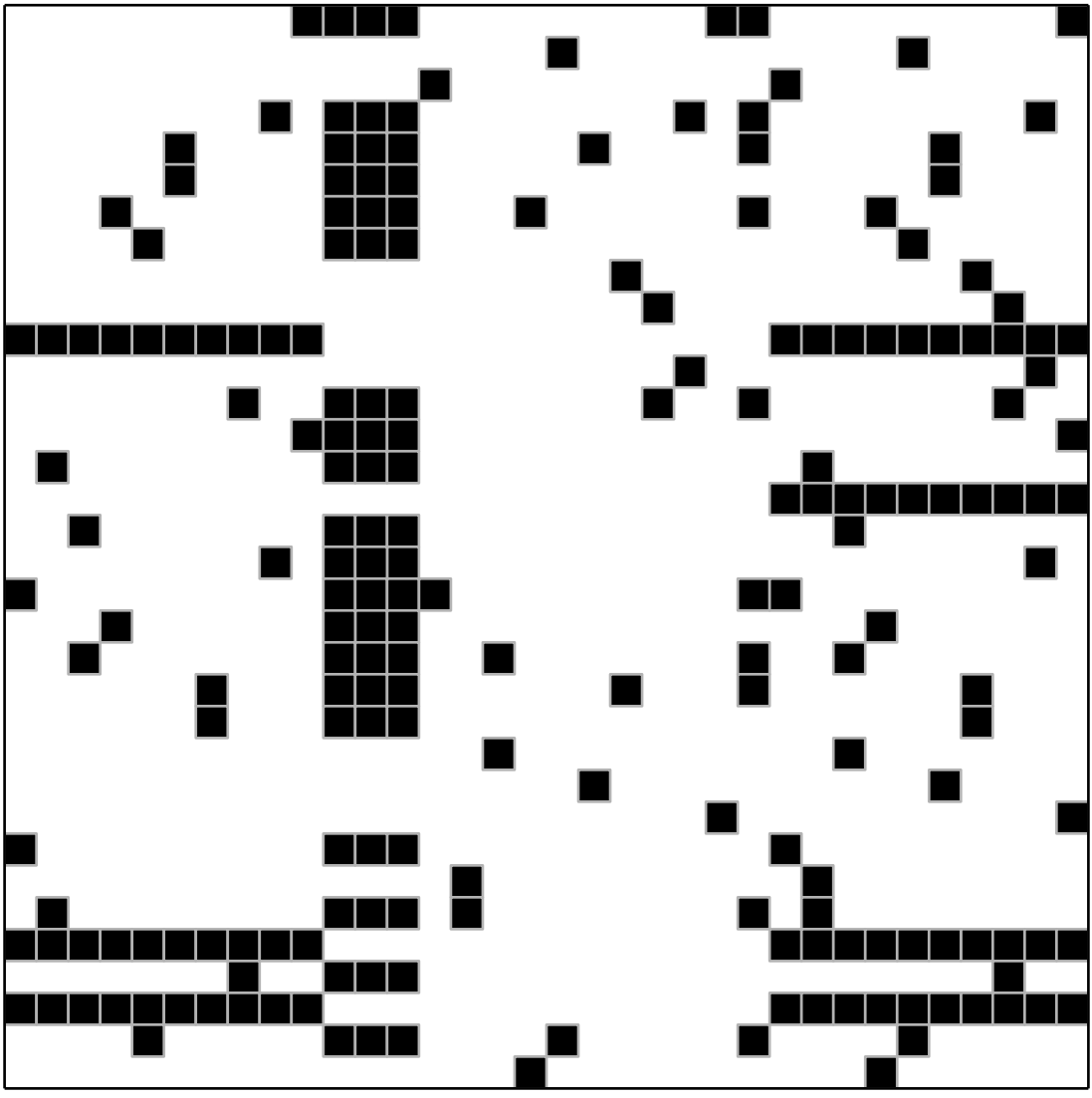
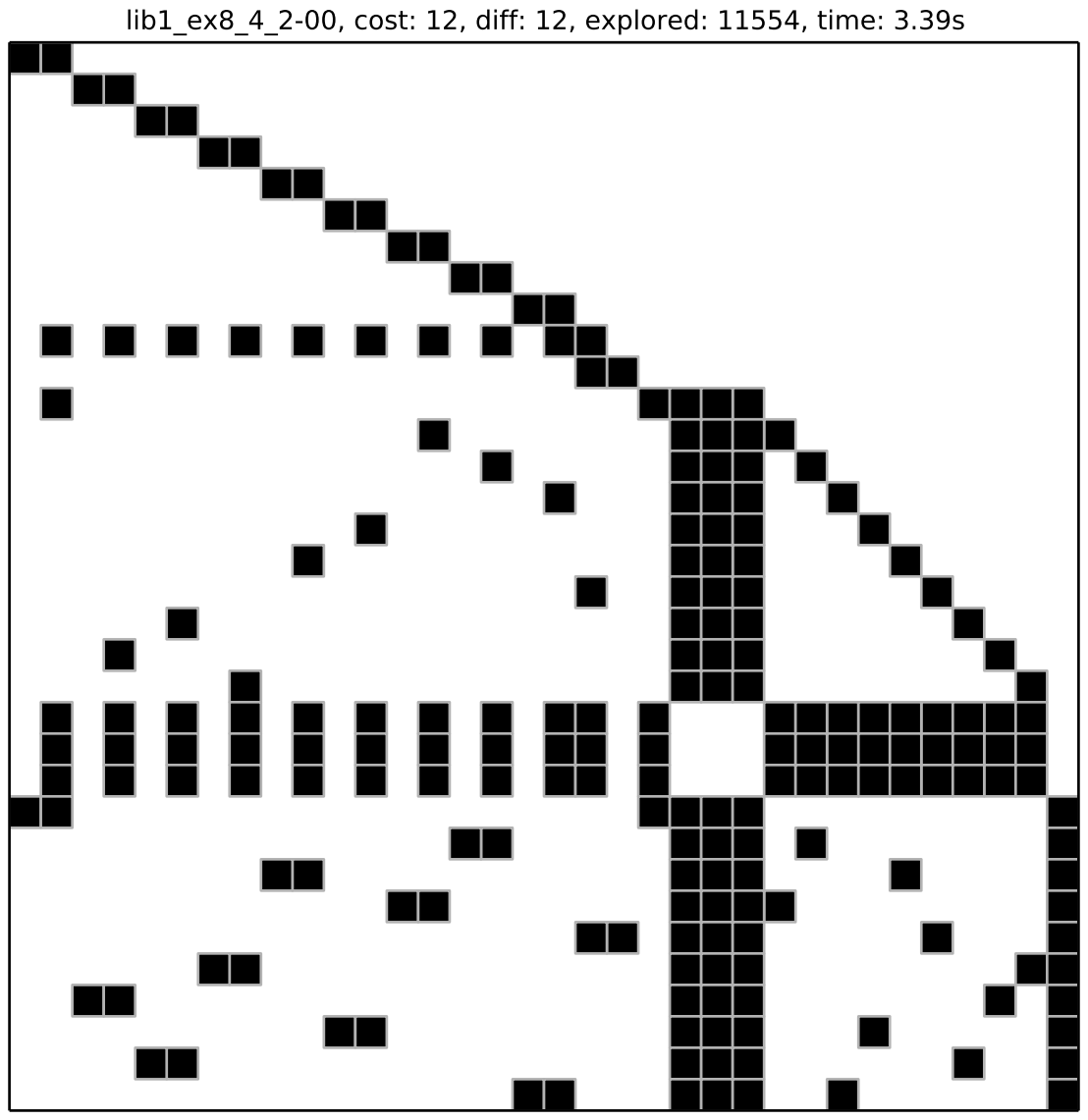
lib1_ex8_4_1-RE 32x32 (130) con: 10, var: 22



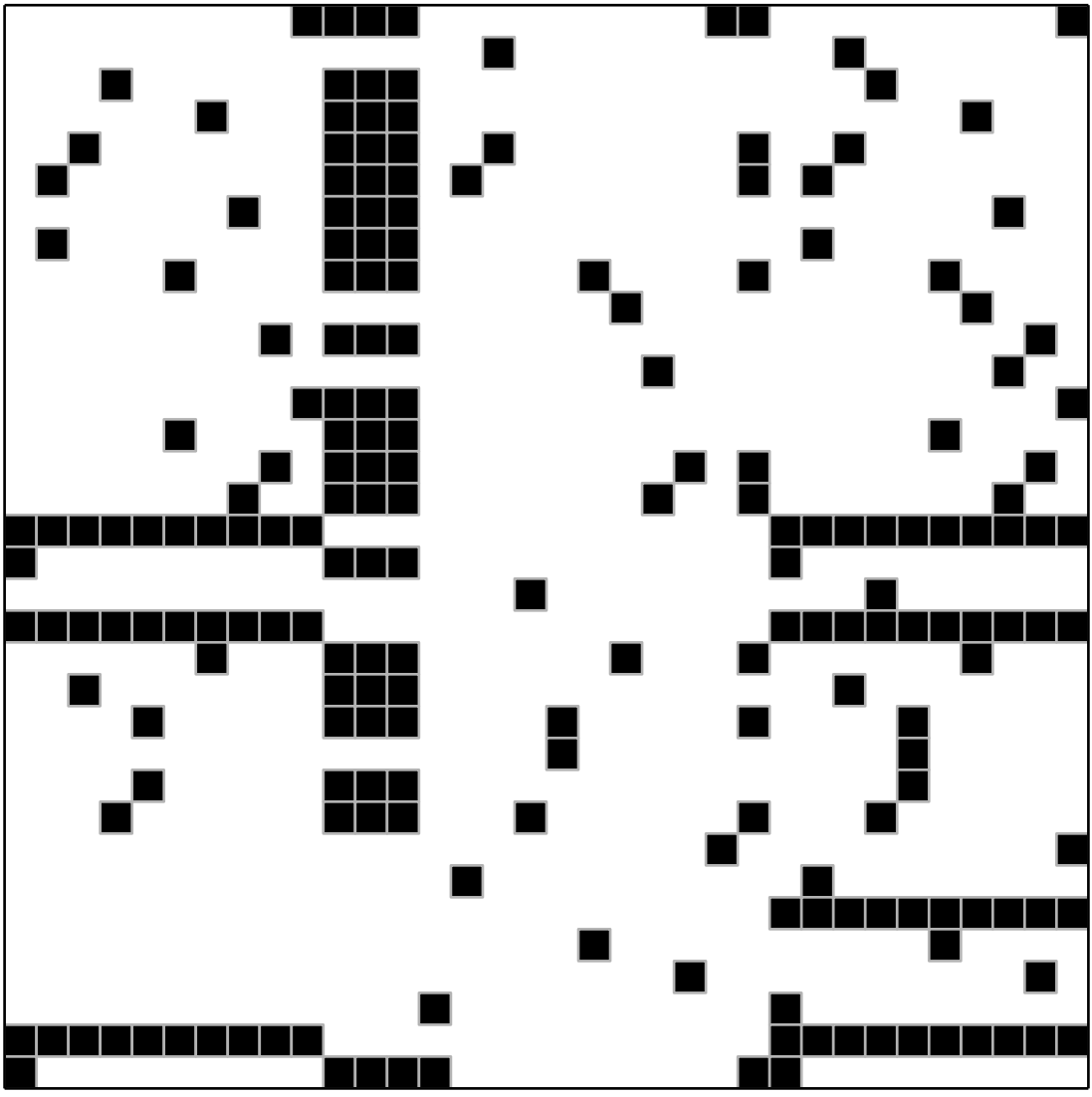

lib1_ex8_4_1-RE, cost: 10, diff: 10, explored: 11554, time: 2.88s

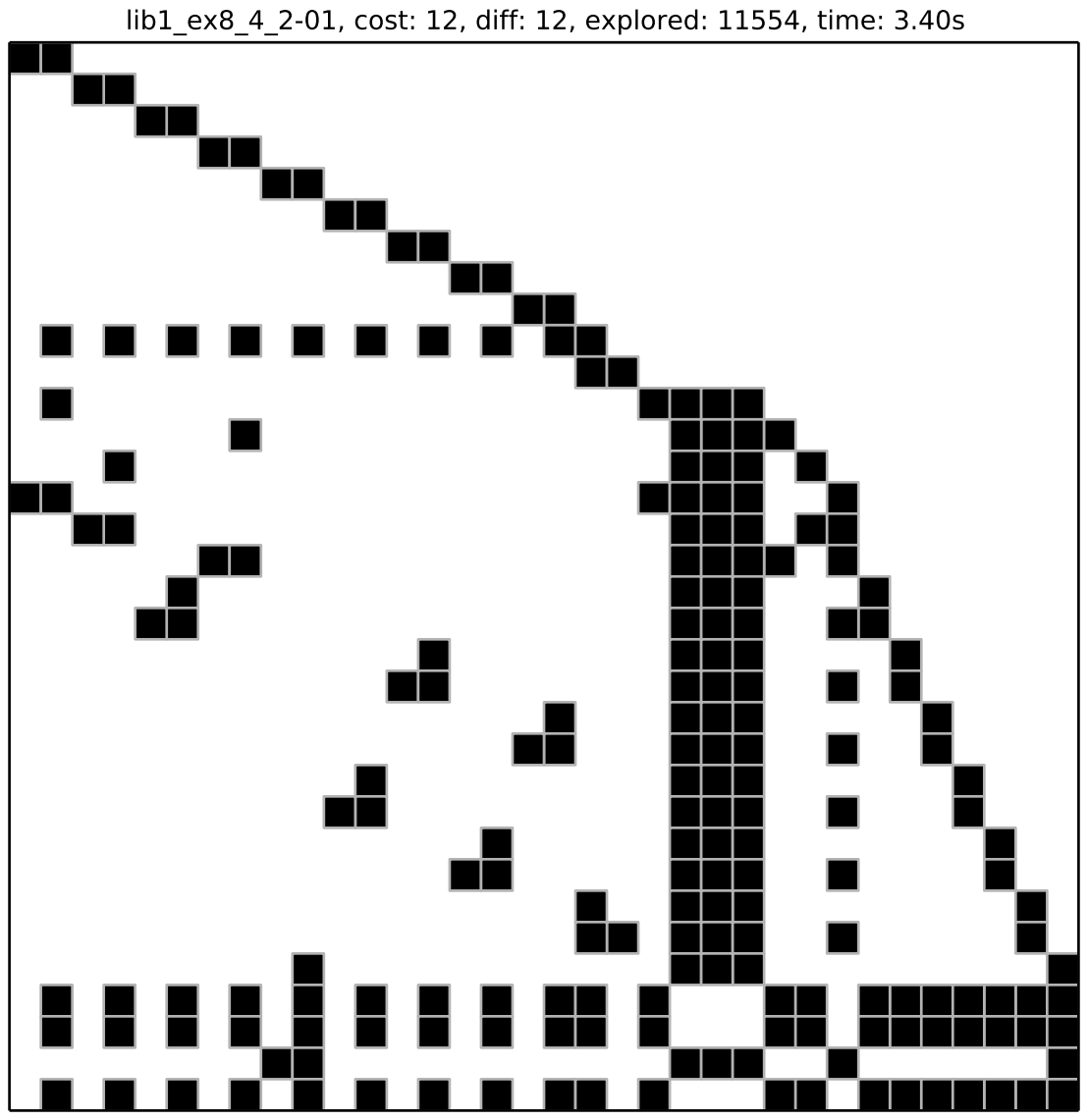
lib1_ex8_4_2-00 34x34 (210) con: 10, var: 24



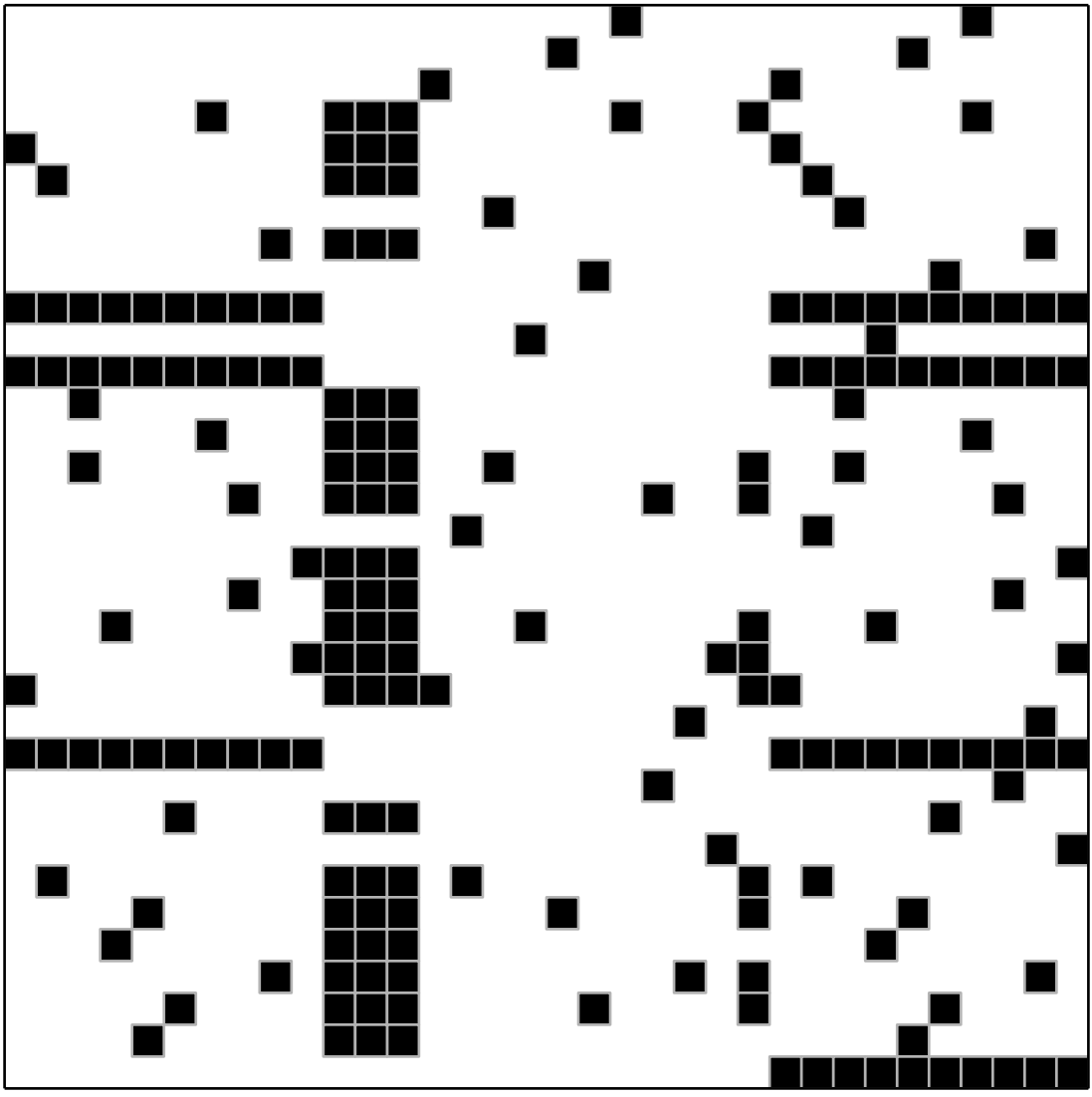

lib1_ex8_4_2-00, cost: 12, diff: 12, explored: 11554, time: 3.39s

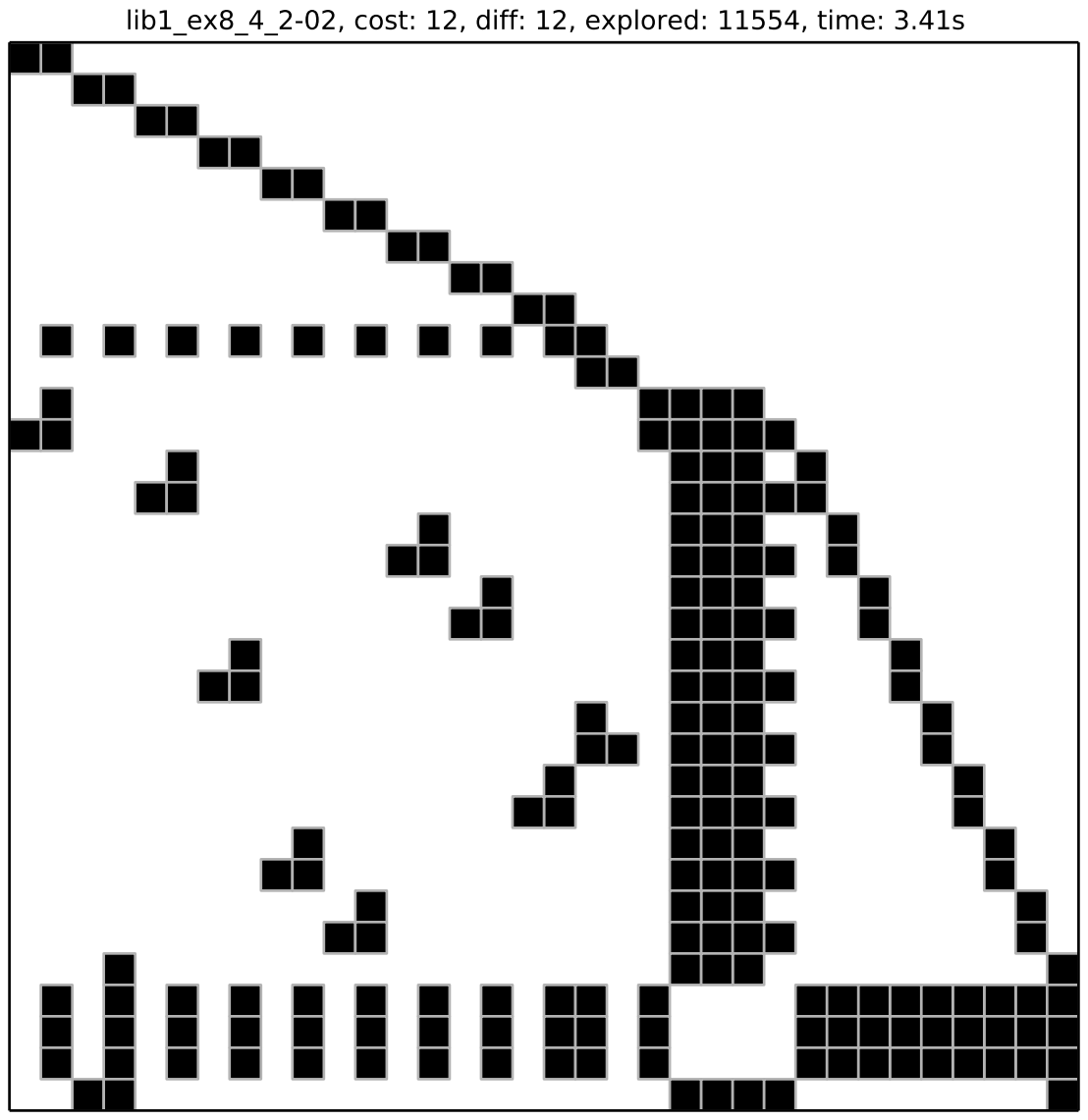
lib1_ex8_4_2-01 34x34 (210) con: 10, var: 24



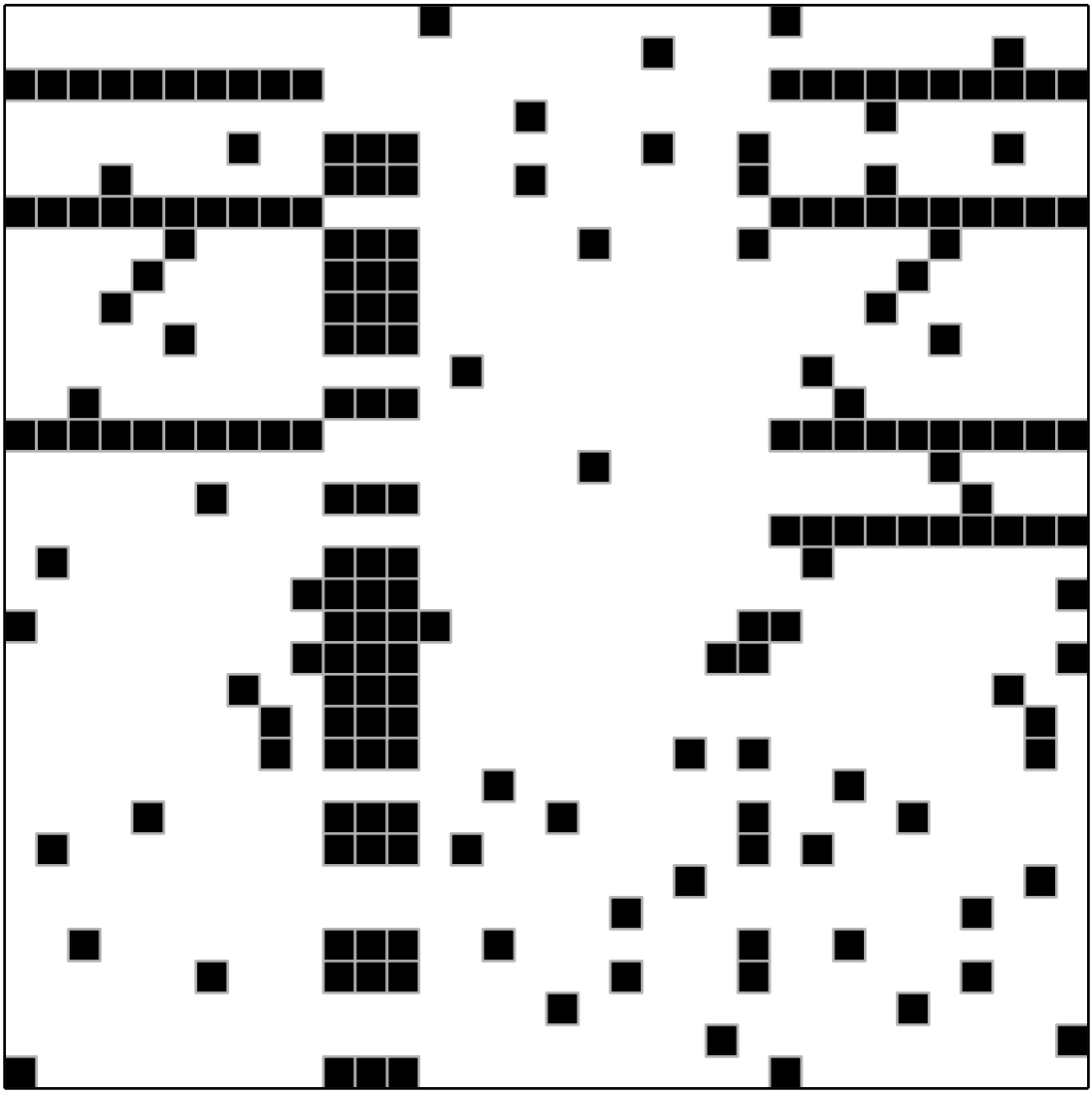

lib1_ex8_4_2-01, cost: 12, diff: 12, explored: 11554, time: 3.40s

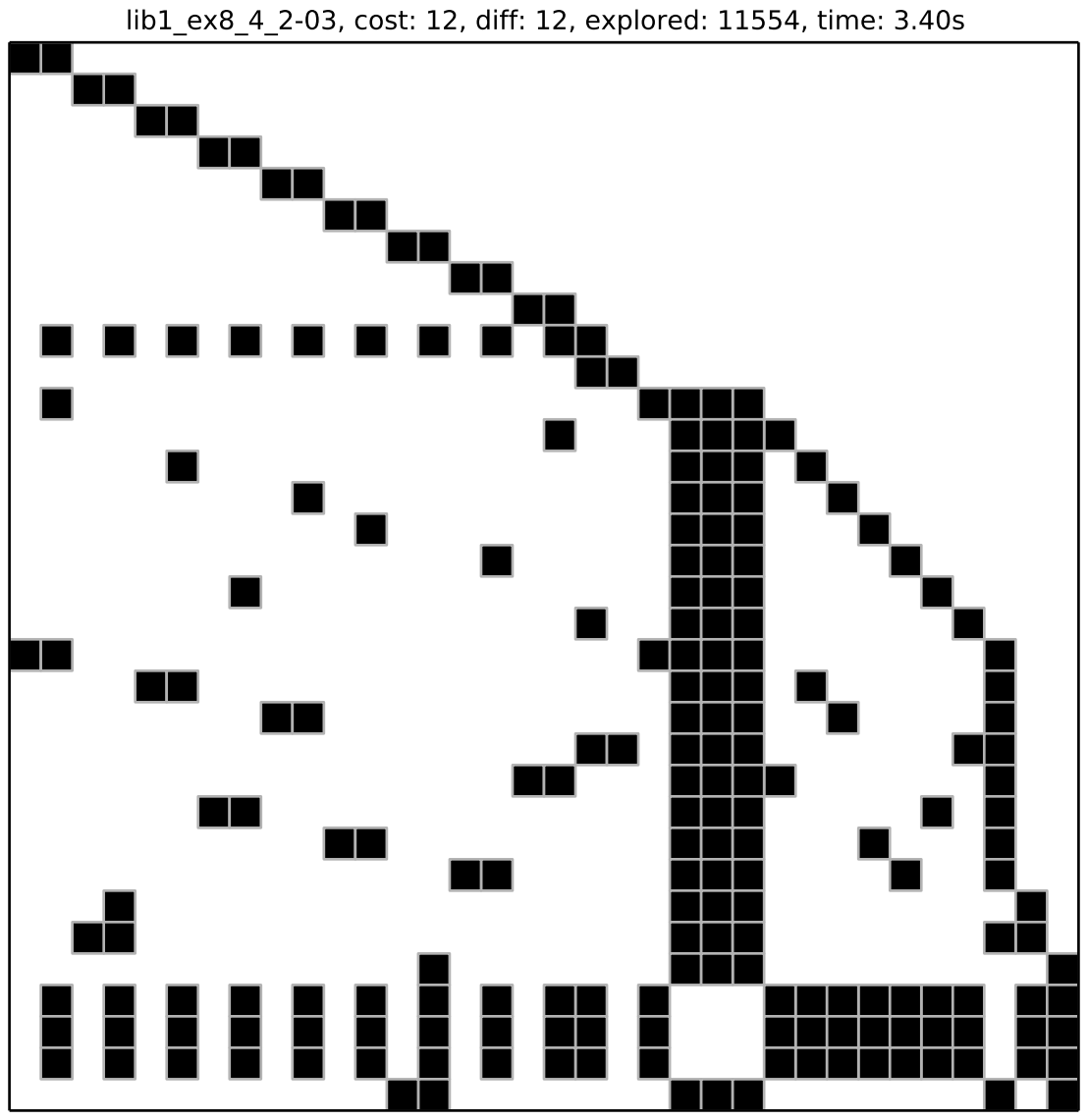
lib1_ex8_4_2-02 34x34 (210) con: 10, var: 24

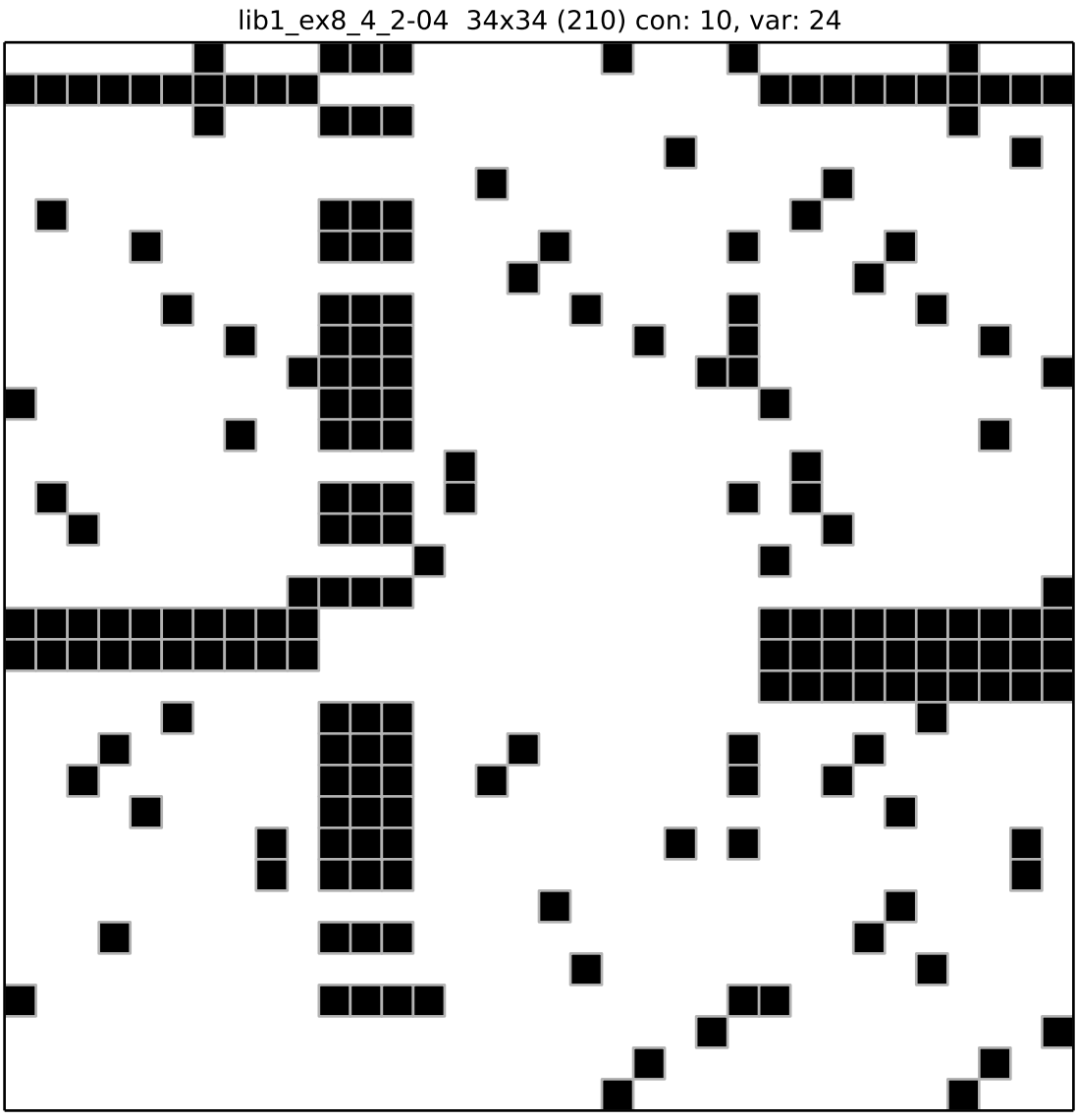


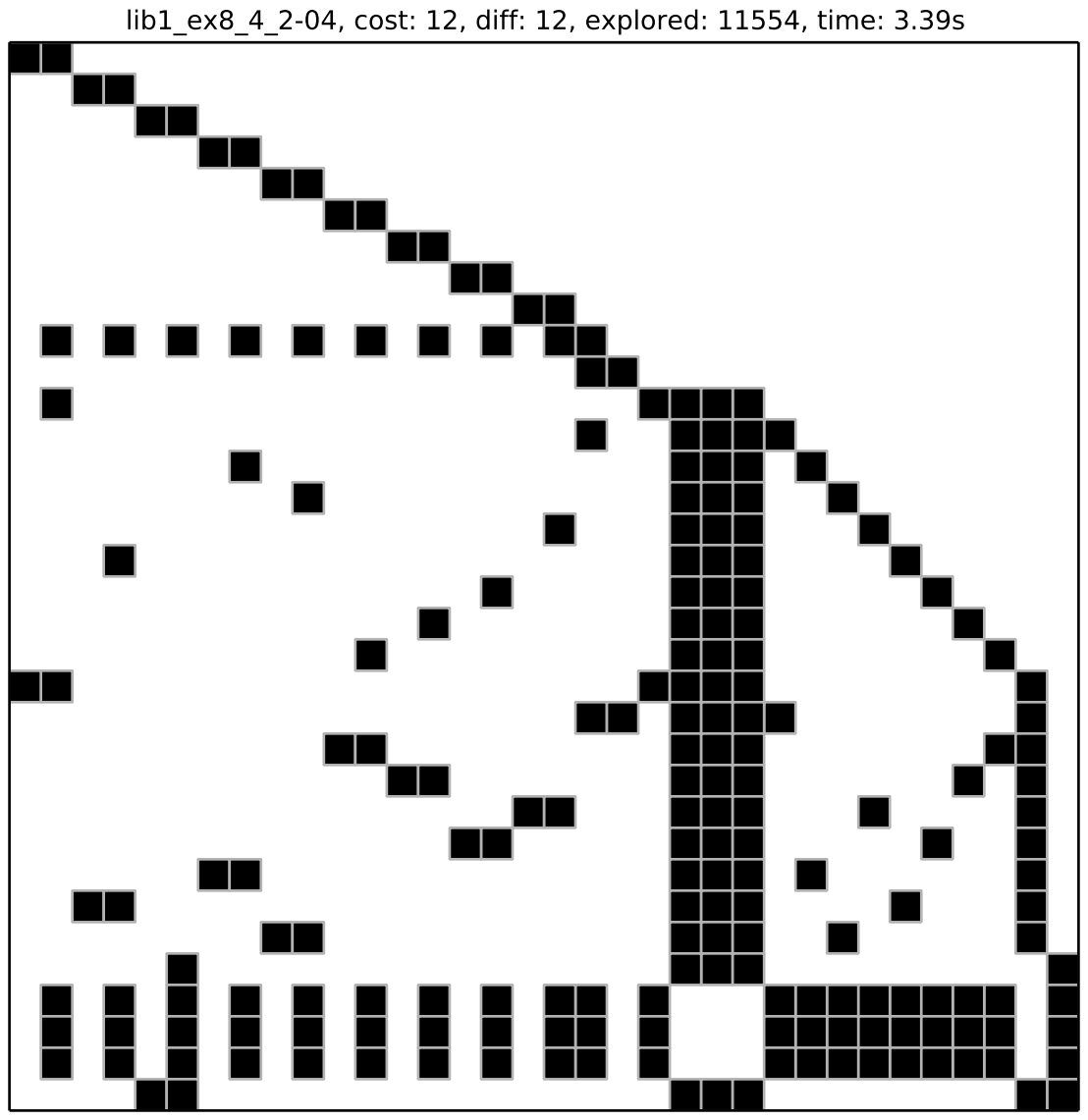

lib1_ex8_4_2-02, cost: 12, diff: 12, explored: 11554, time: 3.41s

lib1_ex8_4_2-03 34x34 (210) con: 10, var: 24

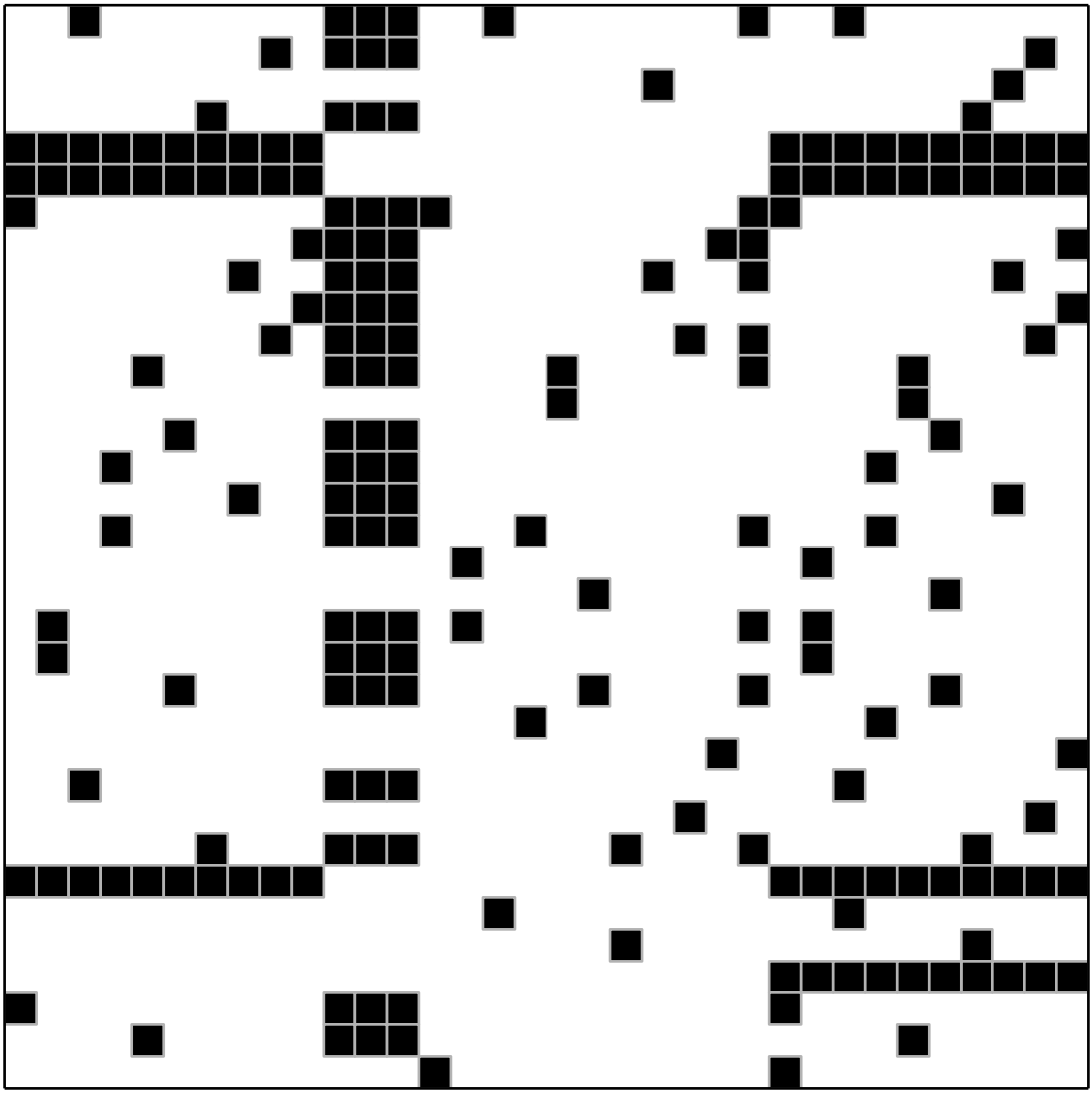


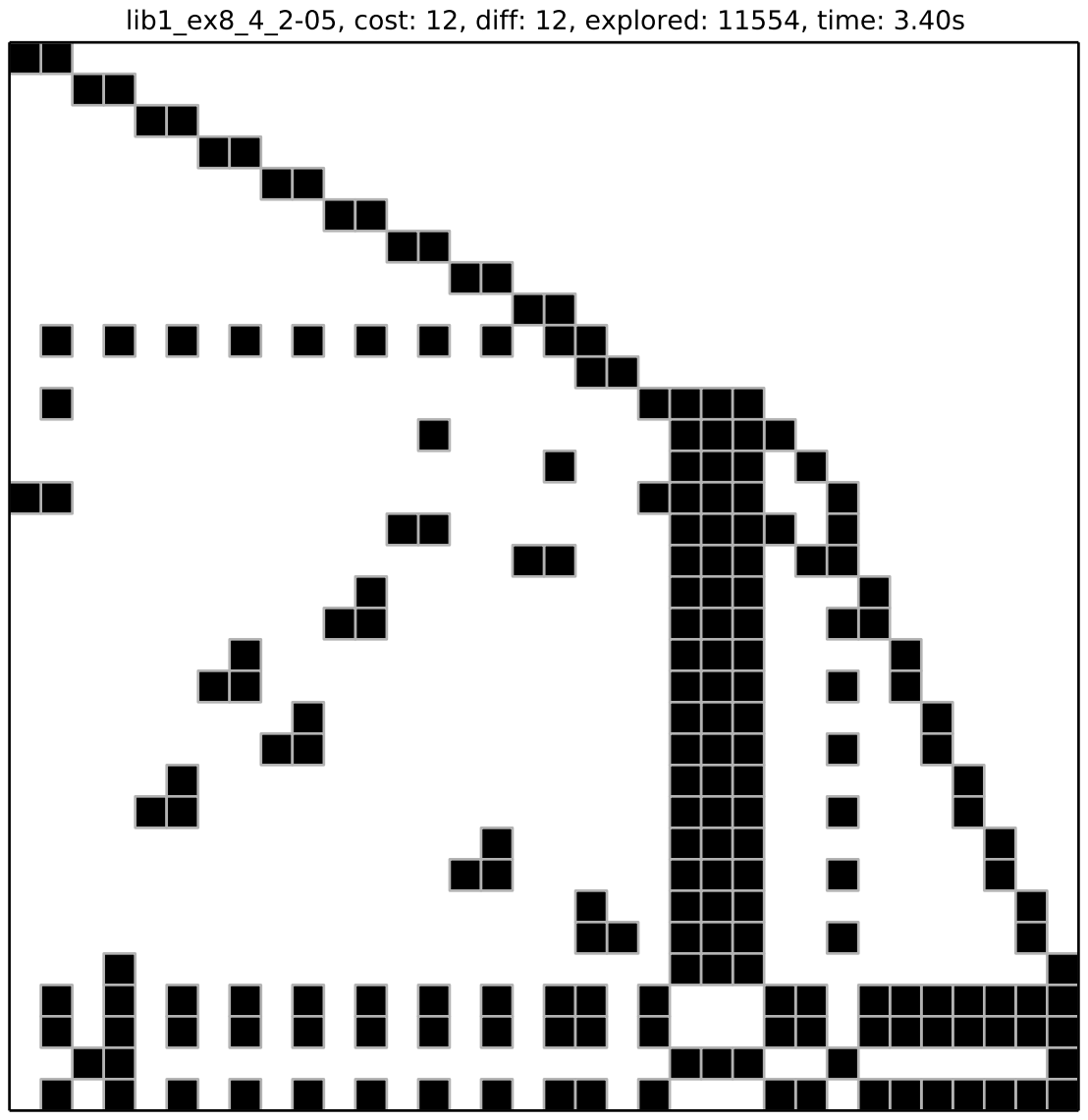

lib1_ex8_4_2-03, cost: 12, diff: 12, explored: 11554, time: 3.40s


lib1_ex8_4_2-04 34x34 (210) con: 10, var: 24

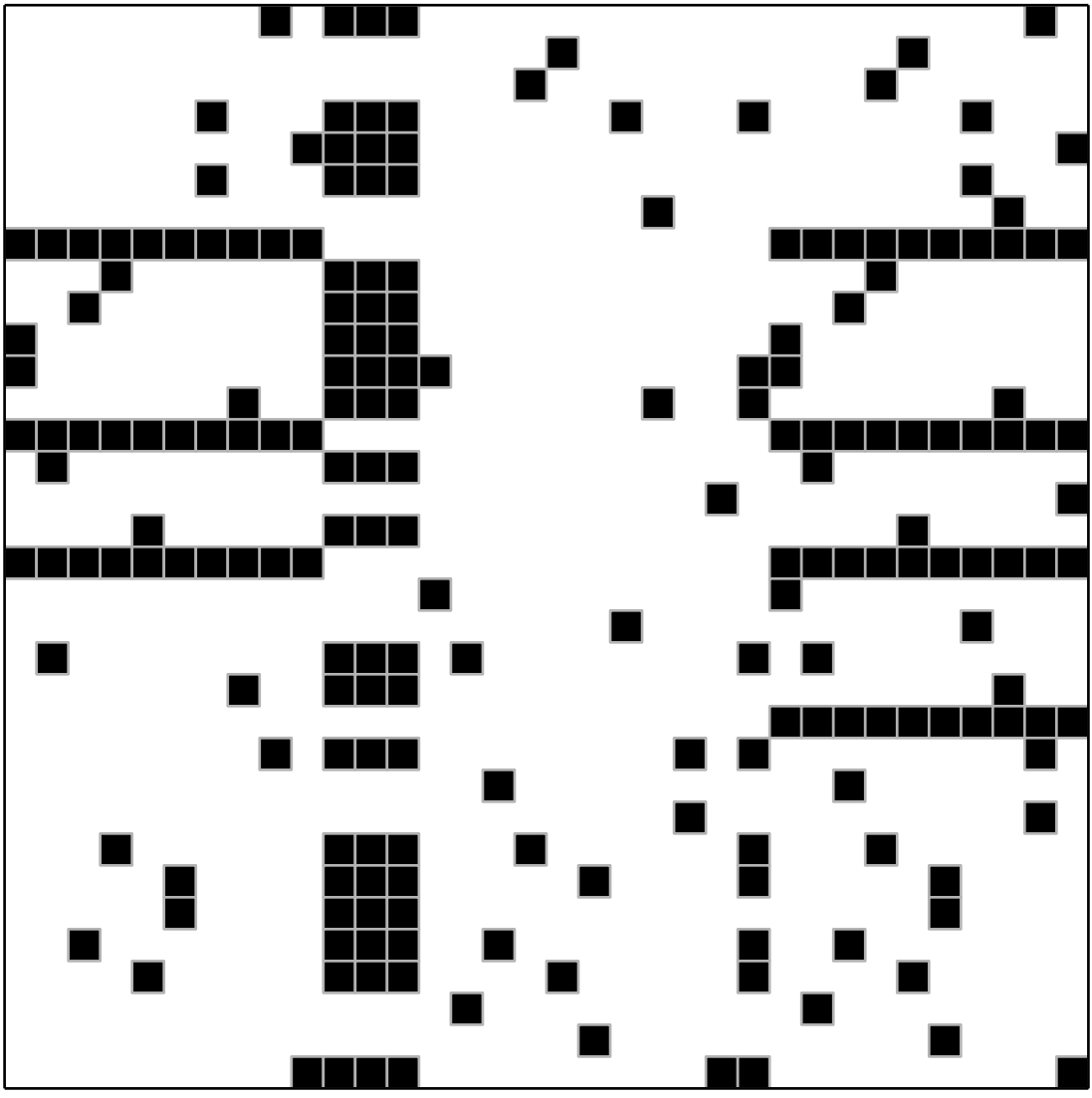

lib1_ex8_4_2-04, cost: 12, diff: 12, explored: 11554, time: 3.39s

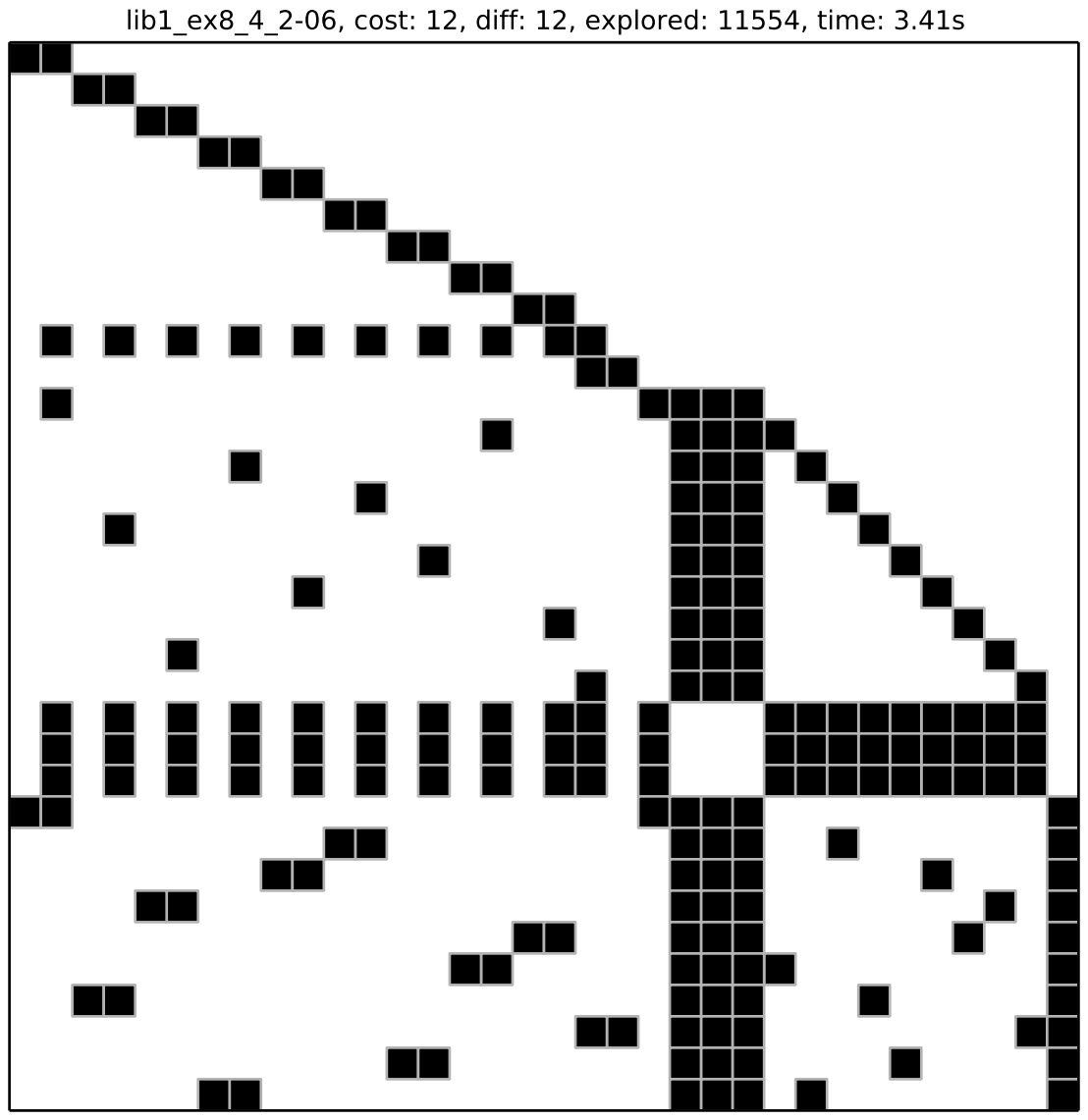
lib1_ex8_4_2-05 34x34 (210) con: 10, var: 24



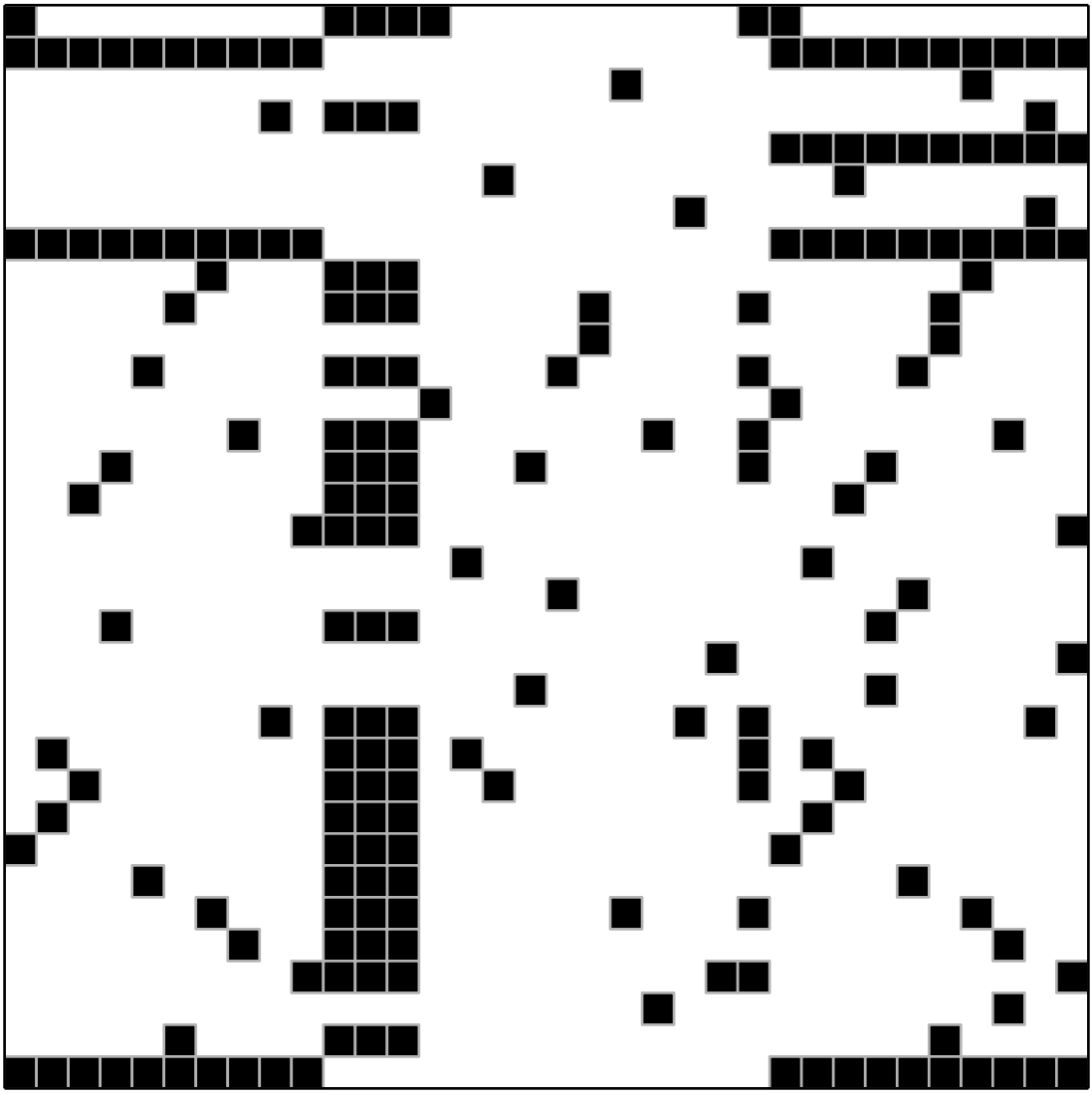

lib1_ex8_4_2-05, cost: 12, diff: 12, explored: 11554, time: 3.40s

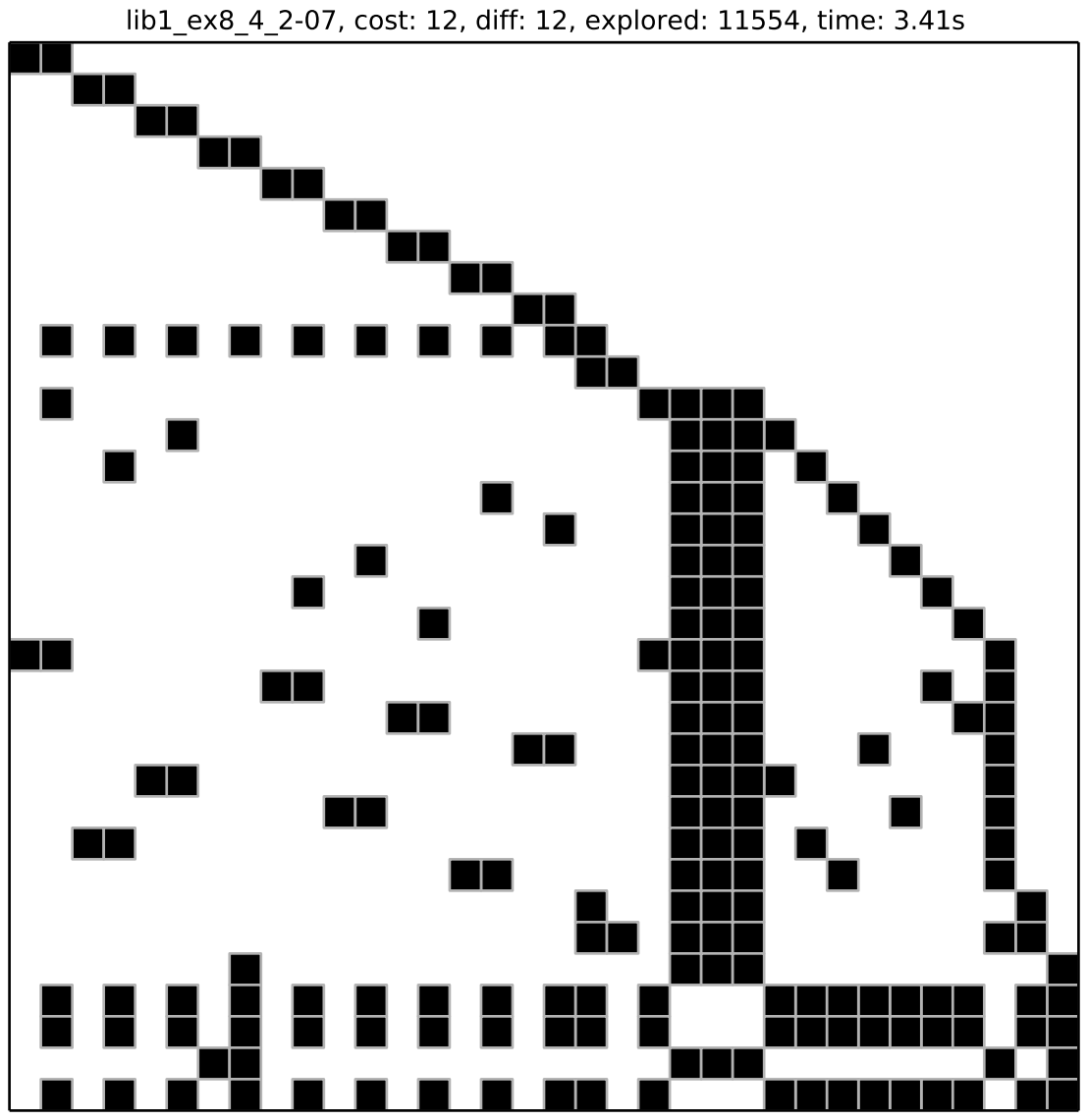
lib1_ex8_4_2-06 34x34 (210) con: 10, var: 24




lib1_ex8_4_2-06, cost: 12, diff: 12, explored: 11554, time: 3.41s

lib1_ex8_4_2-07 34x34 (210) con: 10, var: 24

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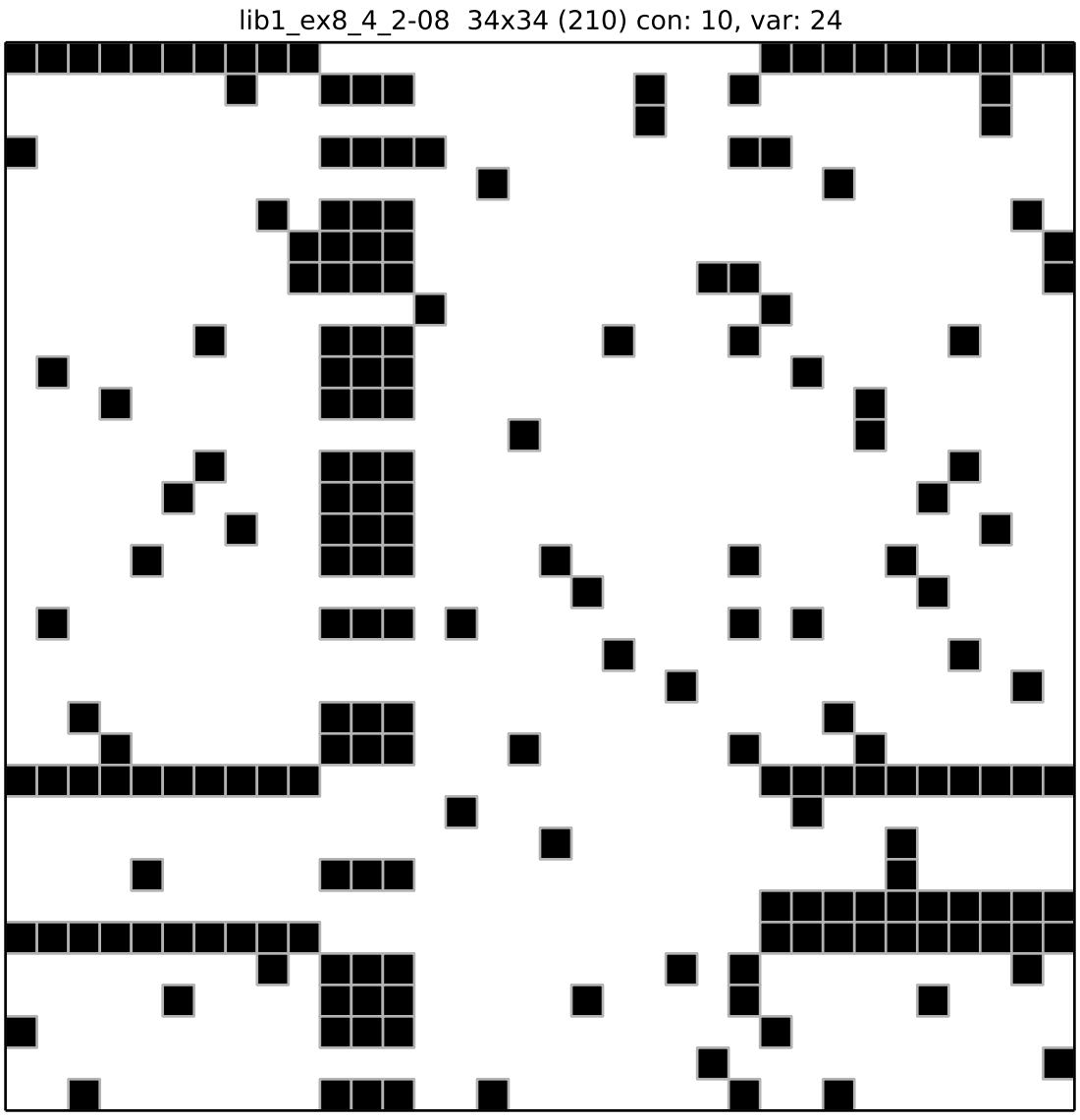
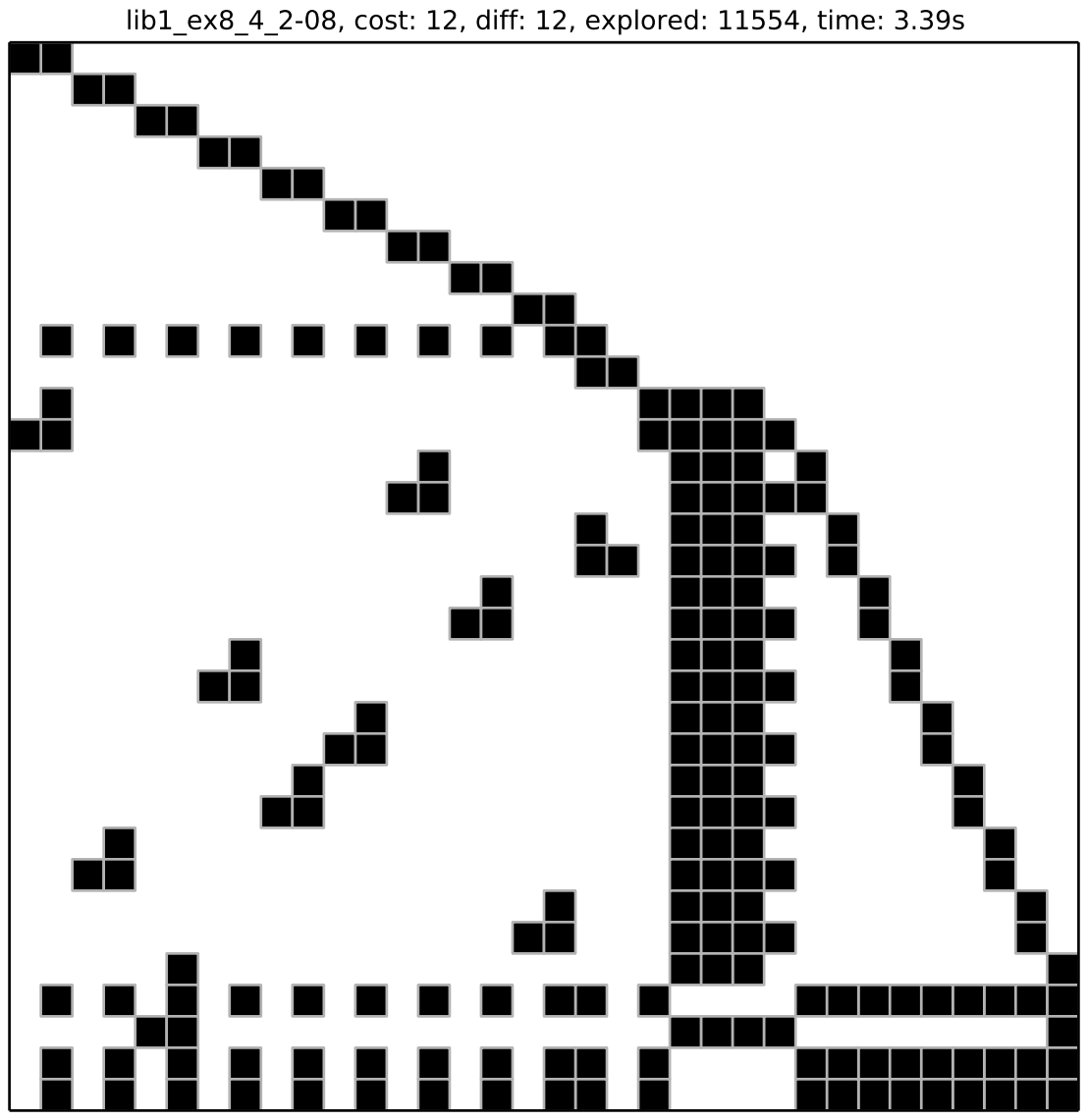
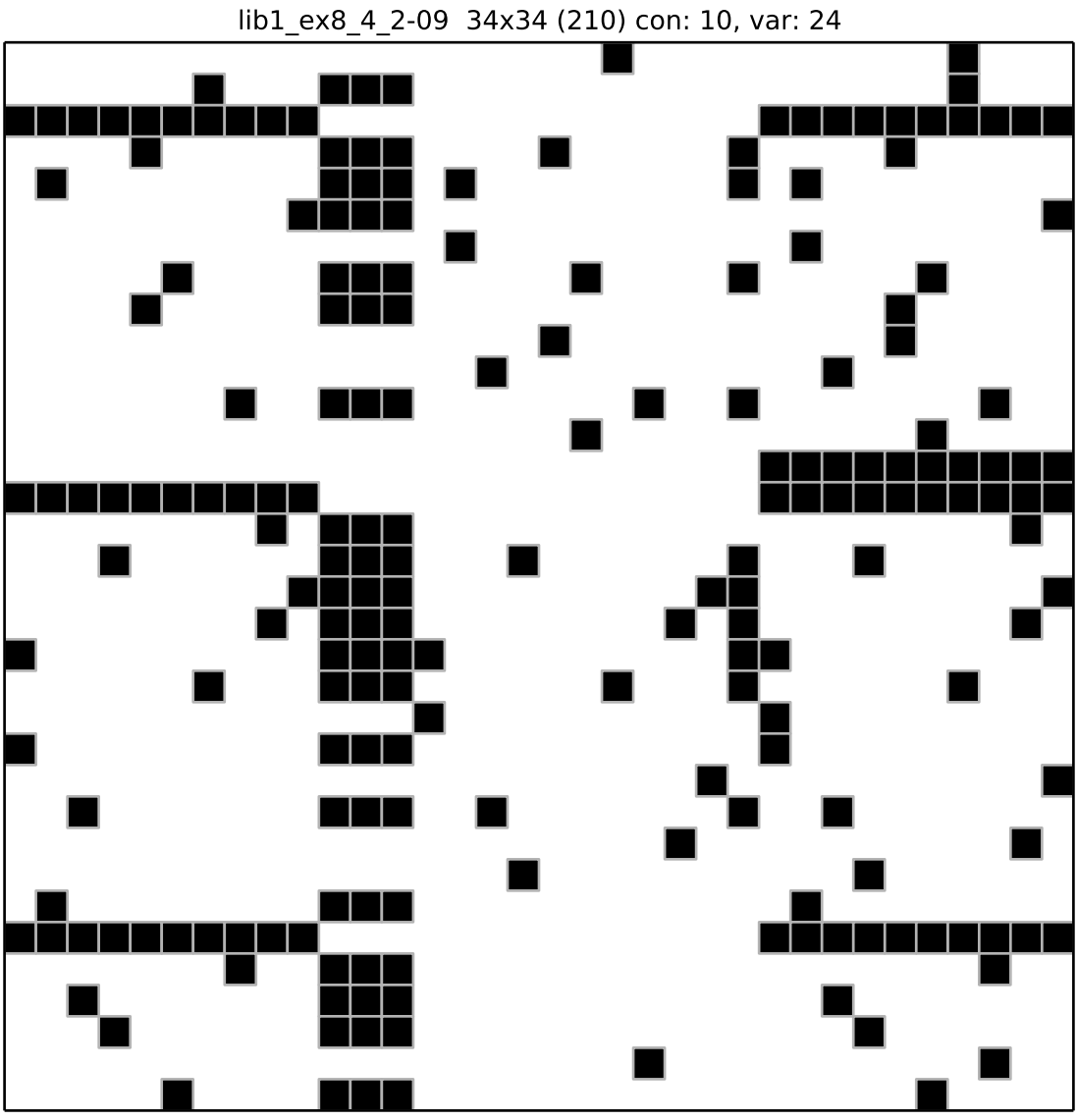
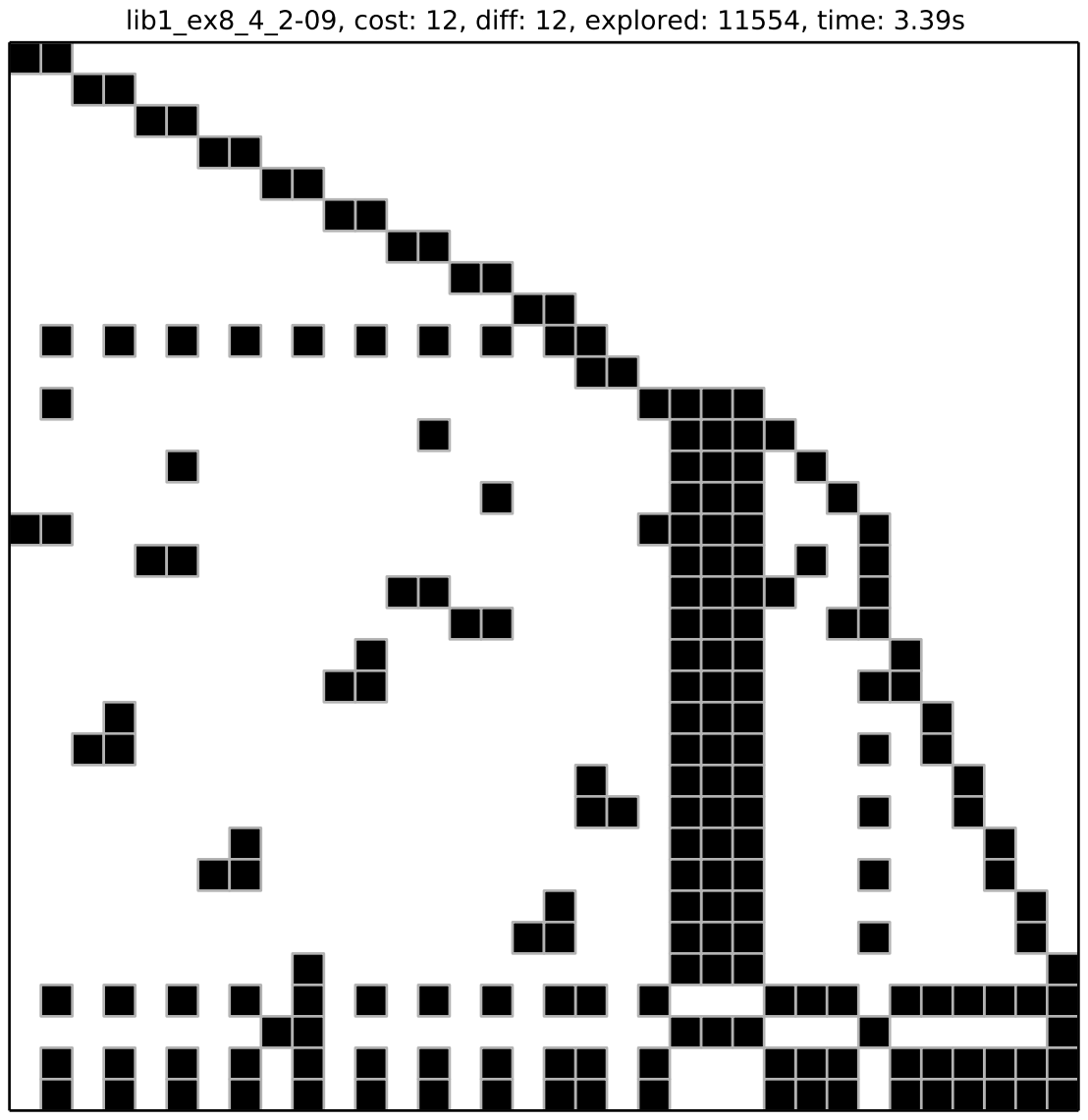

lib1_ex8_4_2-08 34x34 (210) con: 10, var: 24


lib1_ex8_4_2-08, cost: 12, diff: 12, explored: 11554, time: 3.39s


lib1_ex8_4_2-09 34x34 (210) con: 10, var: 24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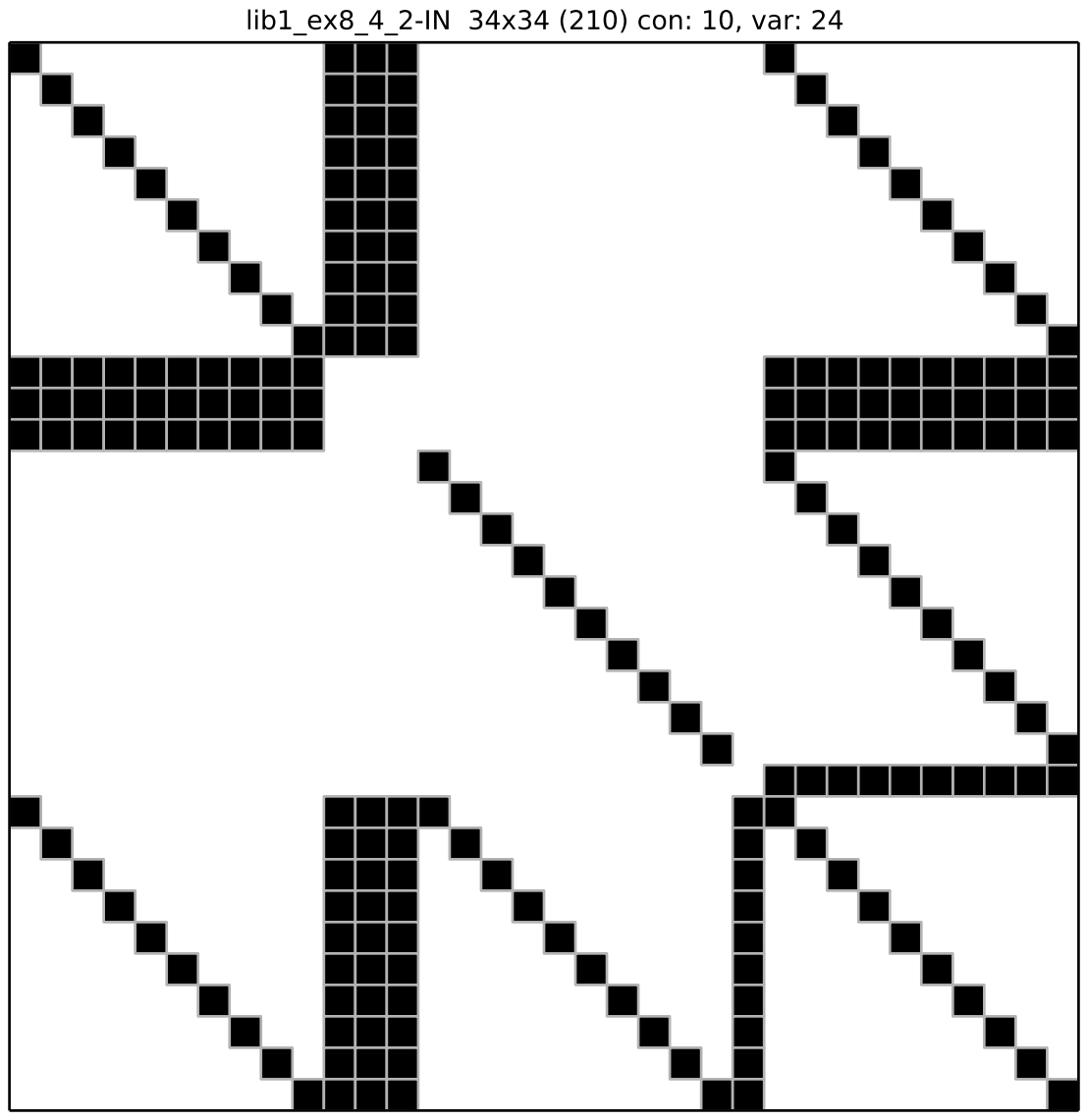
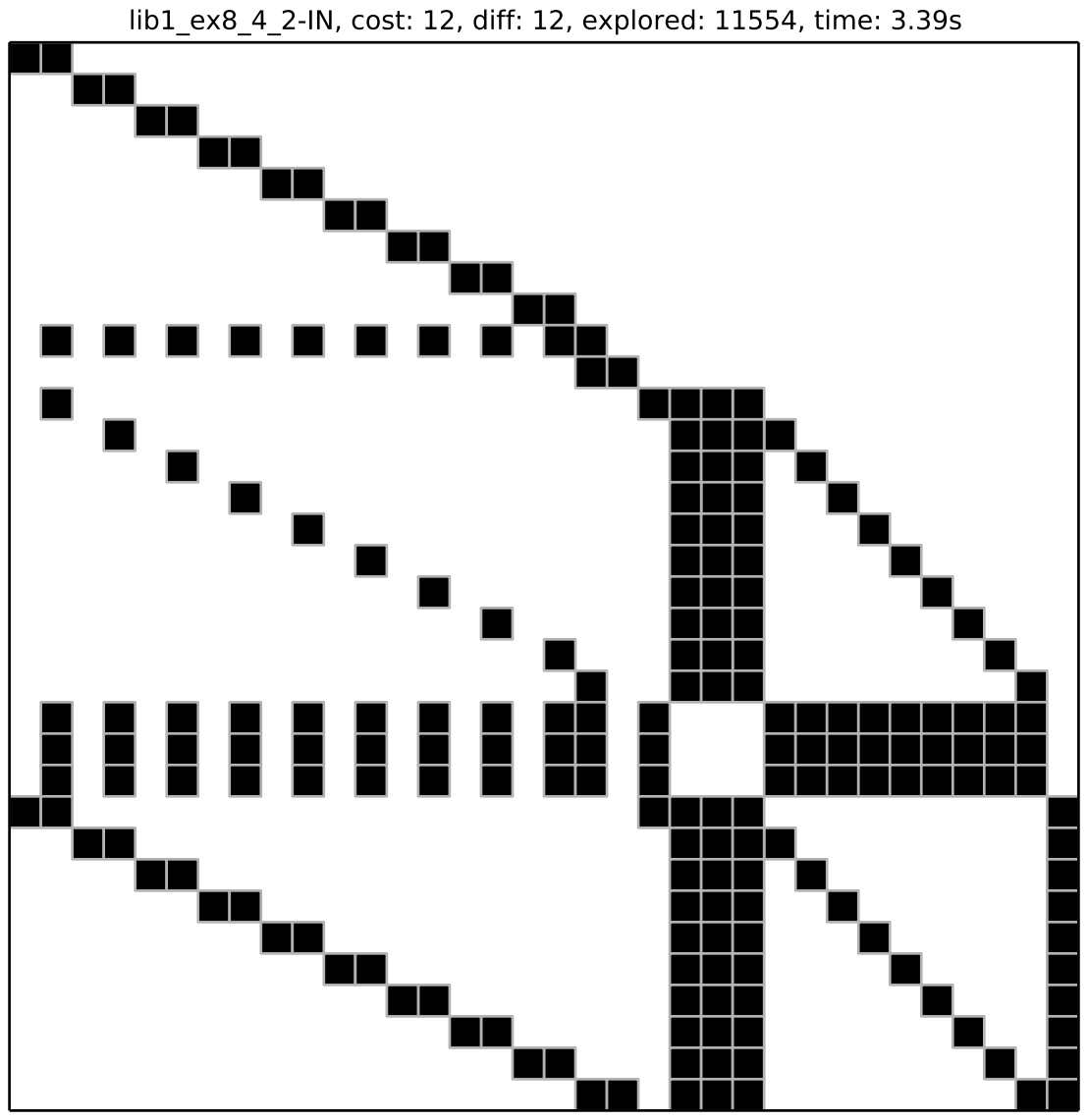

lib1_ex8_4_2-IN 34x34 (210) con: 10, var: 24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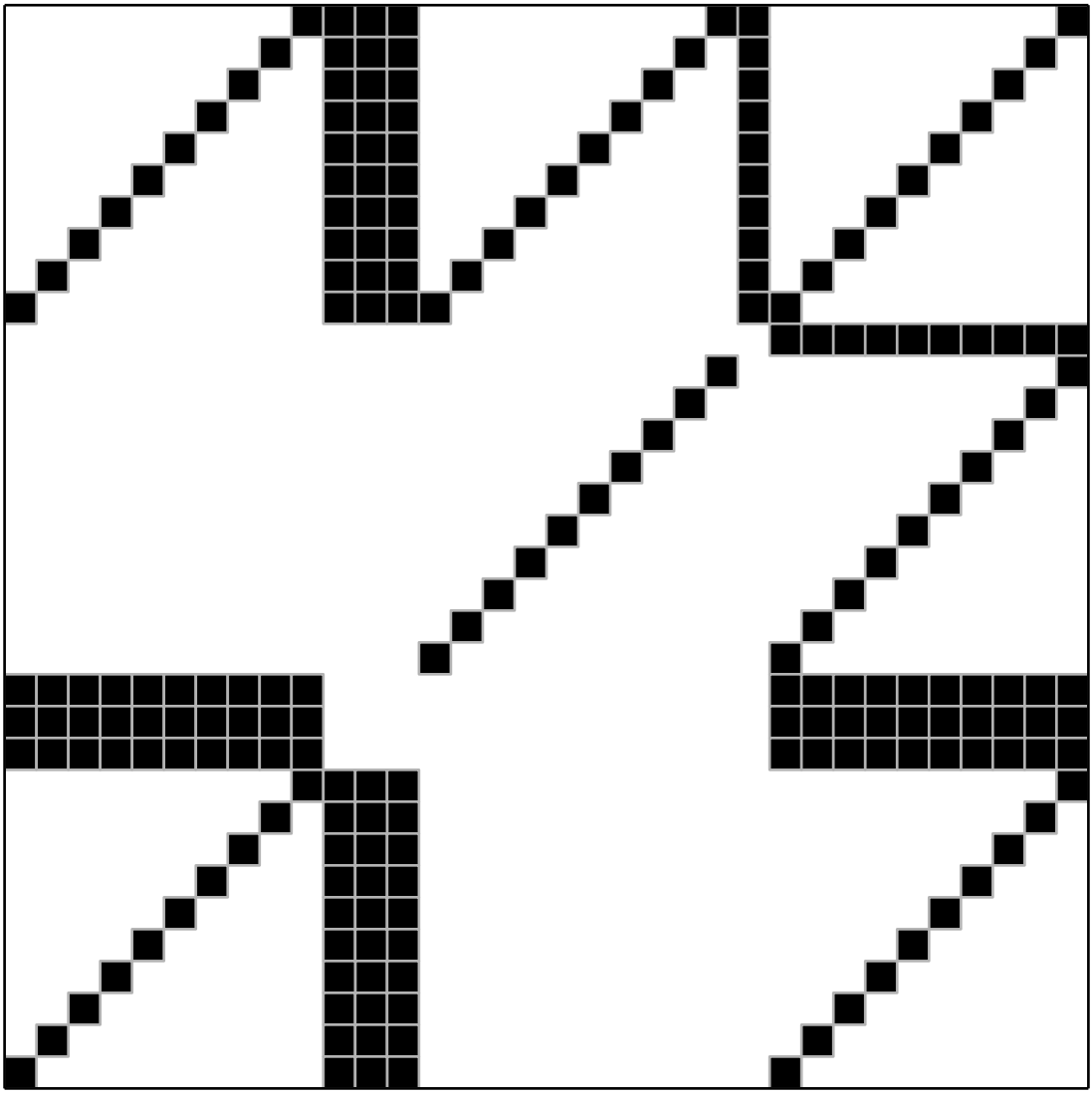
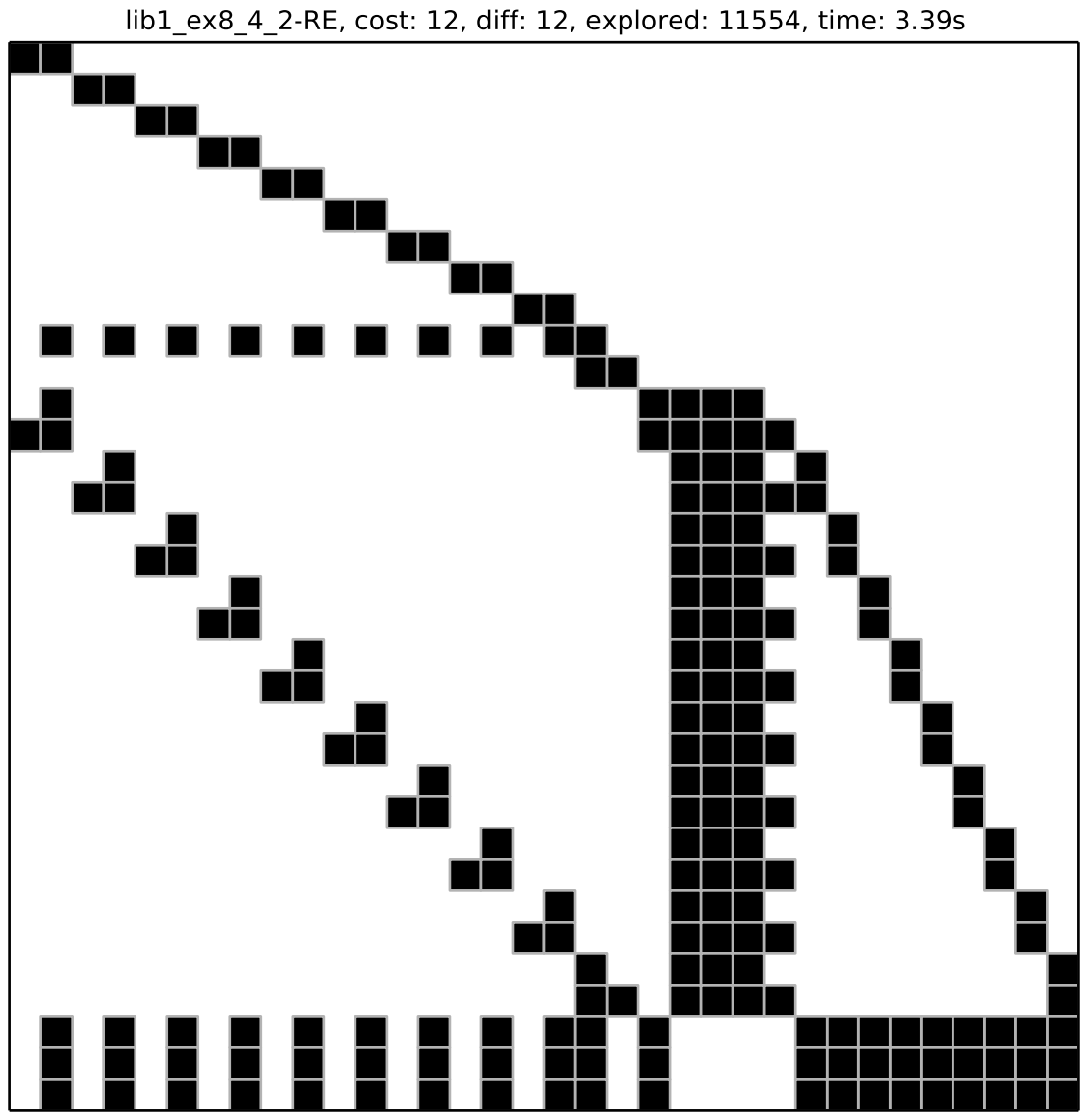
lib1_ex8_4_2-RE 34x34 (210) con: 10, var: 24

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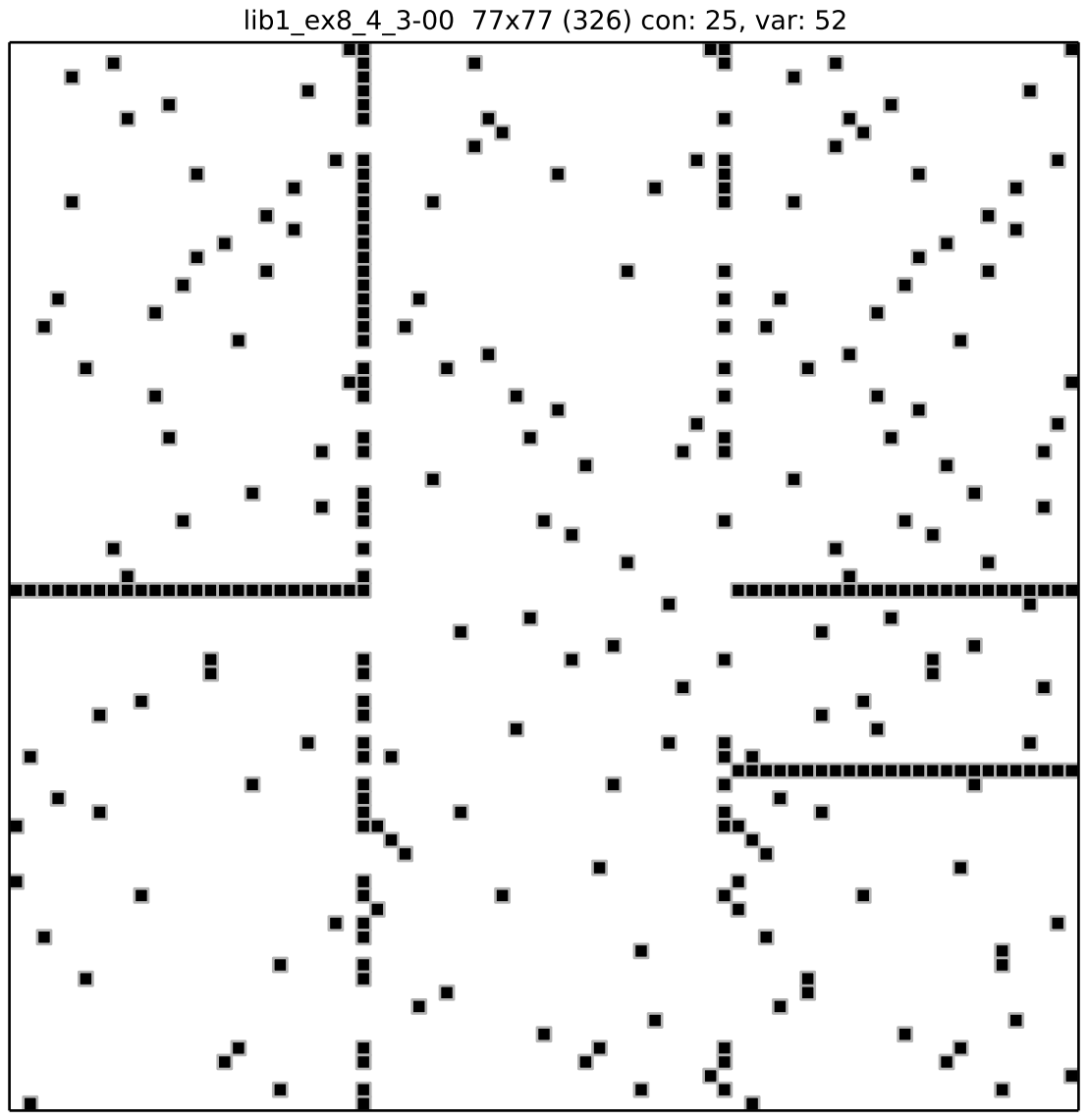
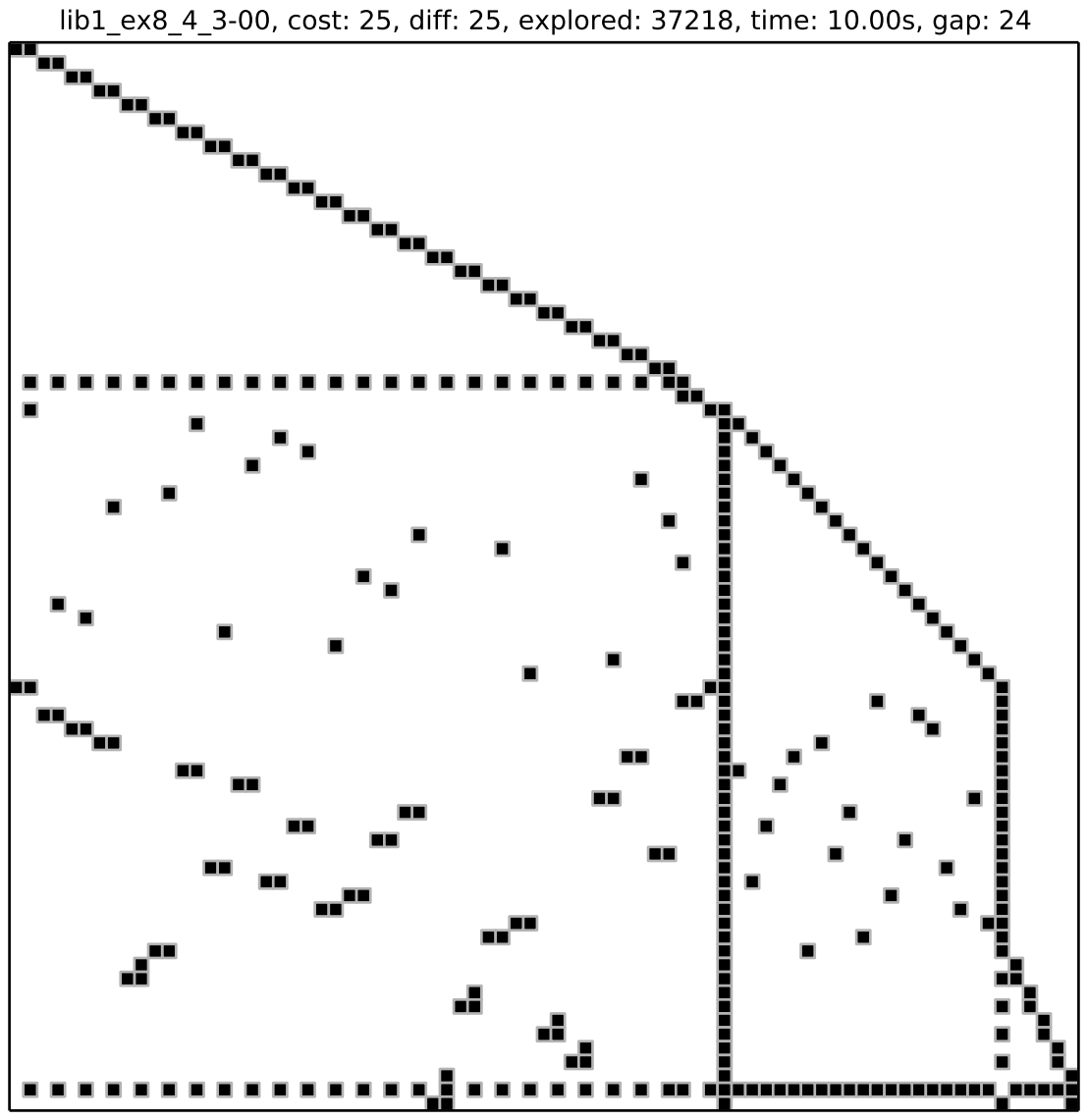
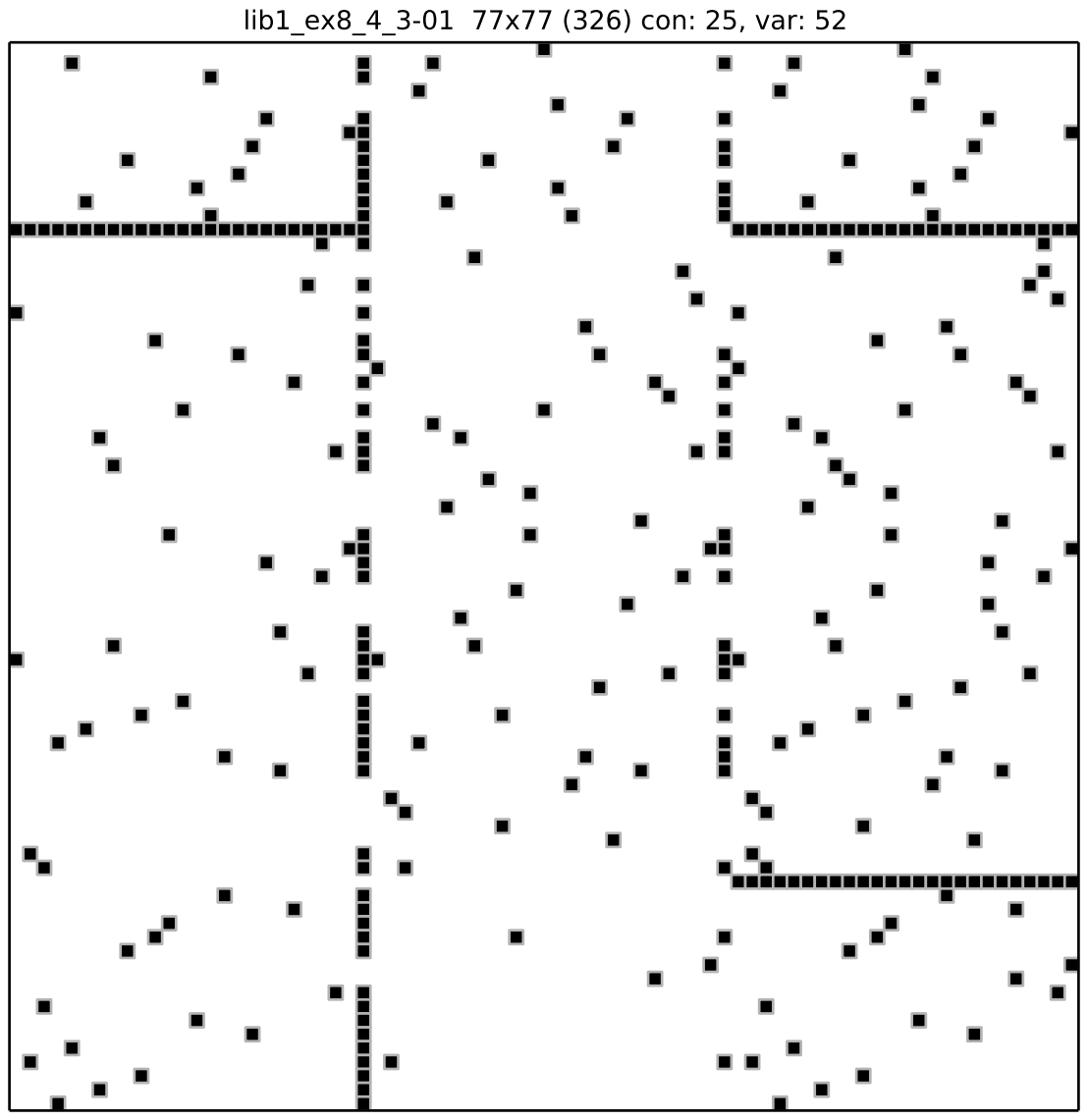
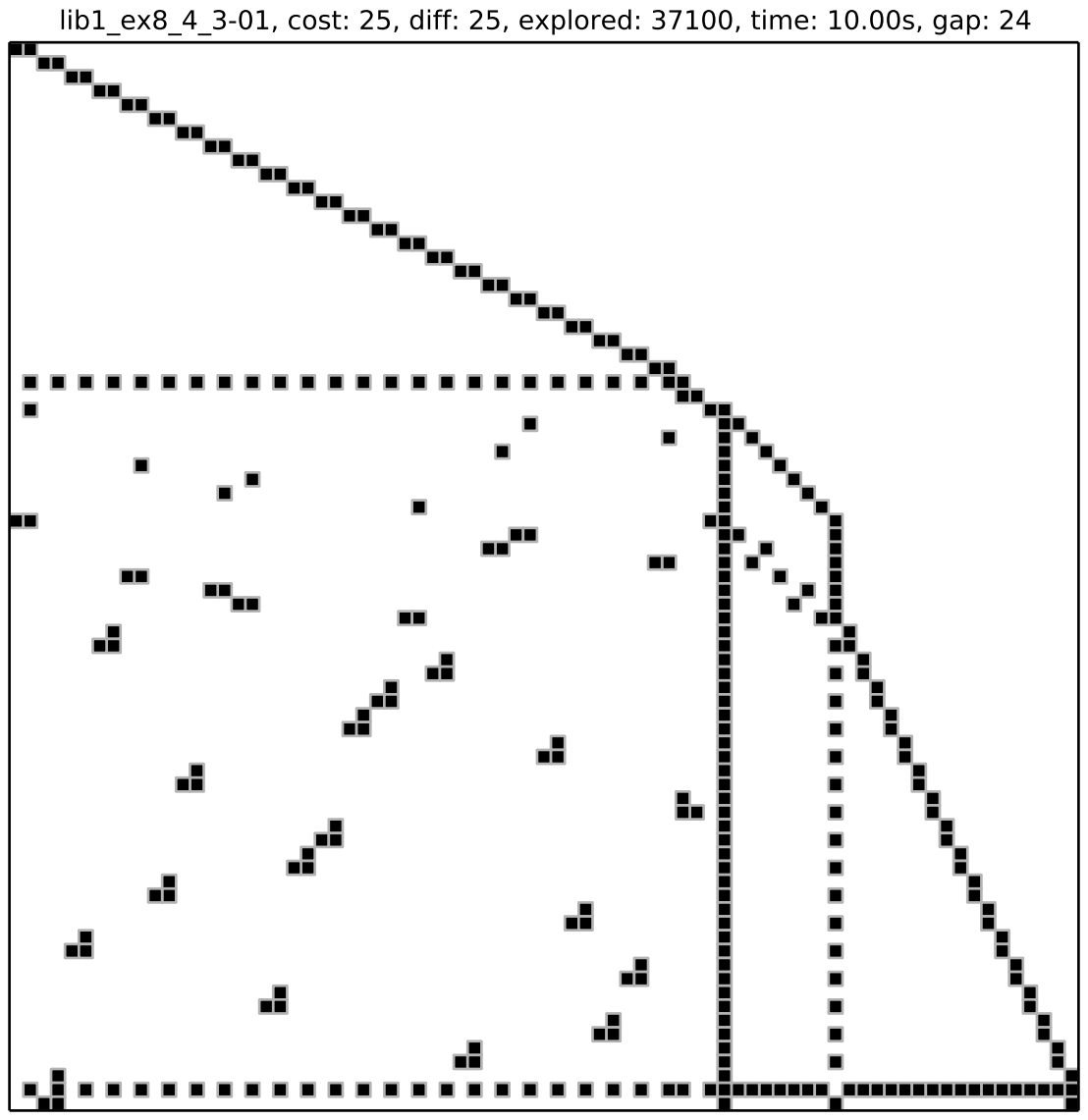
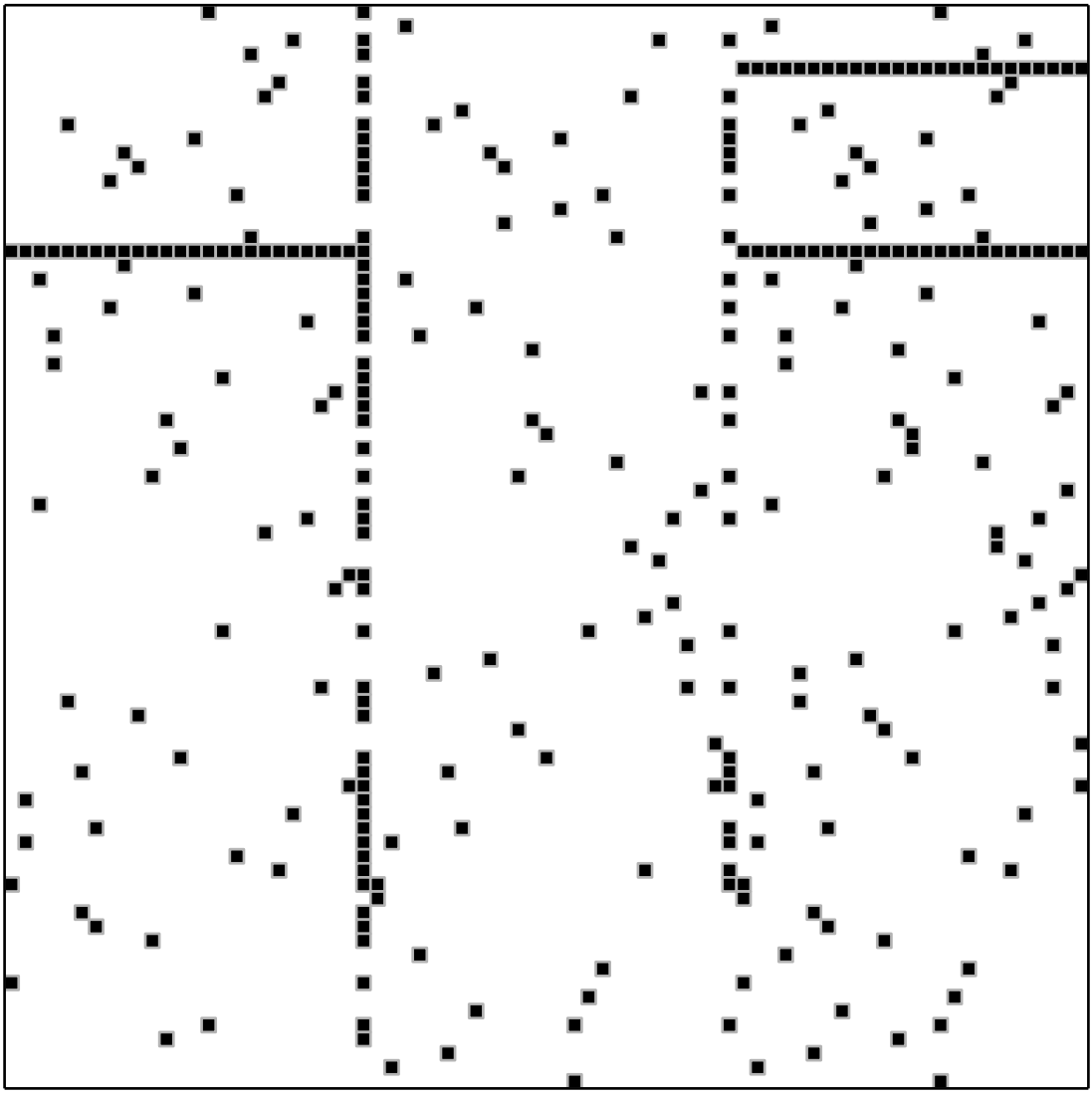

lib1_ex8_4_3-00 77x77 (326) con: 25, var: 52

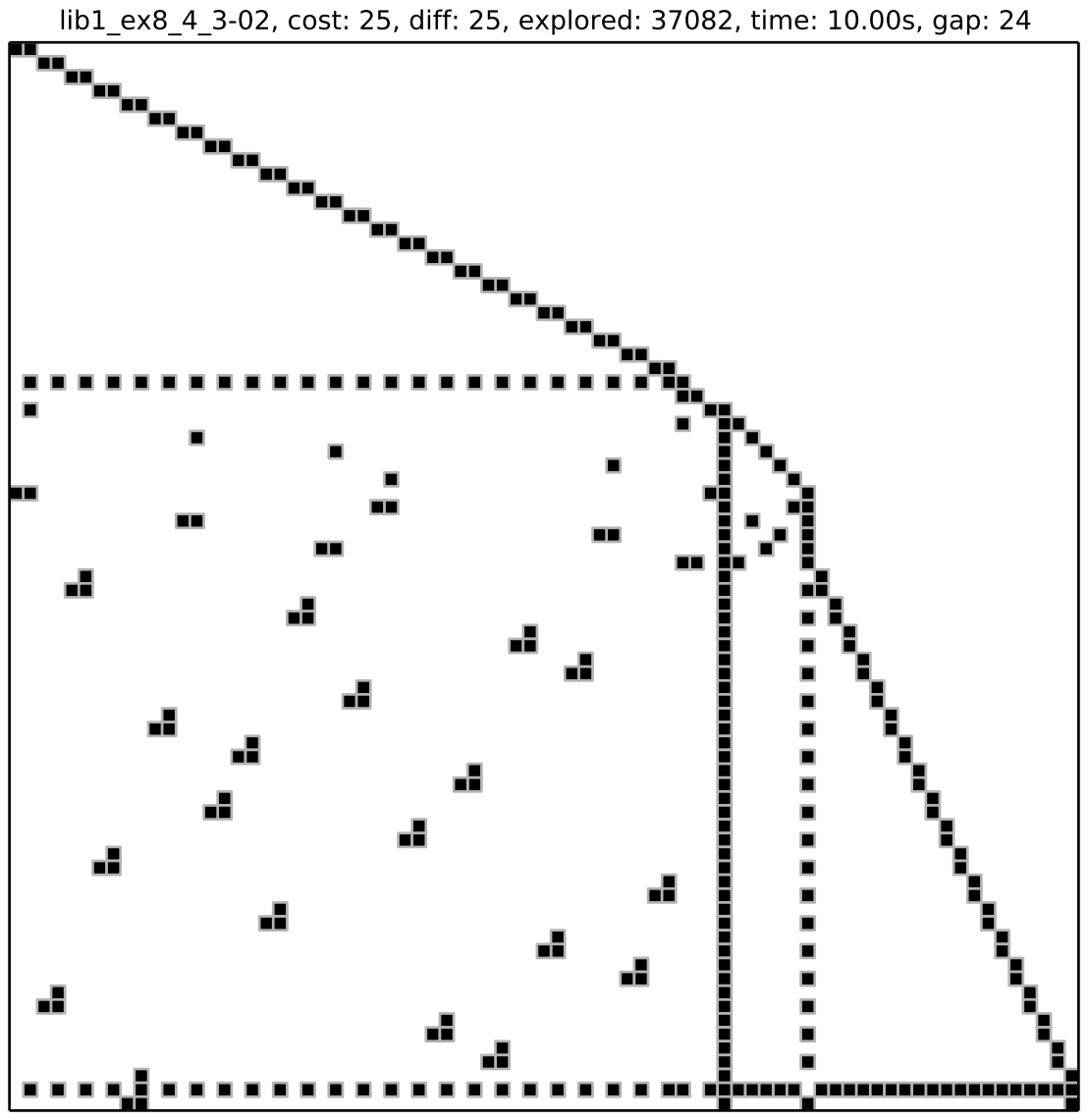

lib1_ex8_4_3-00, cost: 25, diff: 25, explored: 37218, time: 10.00s, gap: 24


lib1_ex8_4_3-01 77x77 (326) con: 25, var: 52

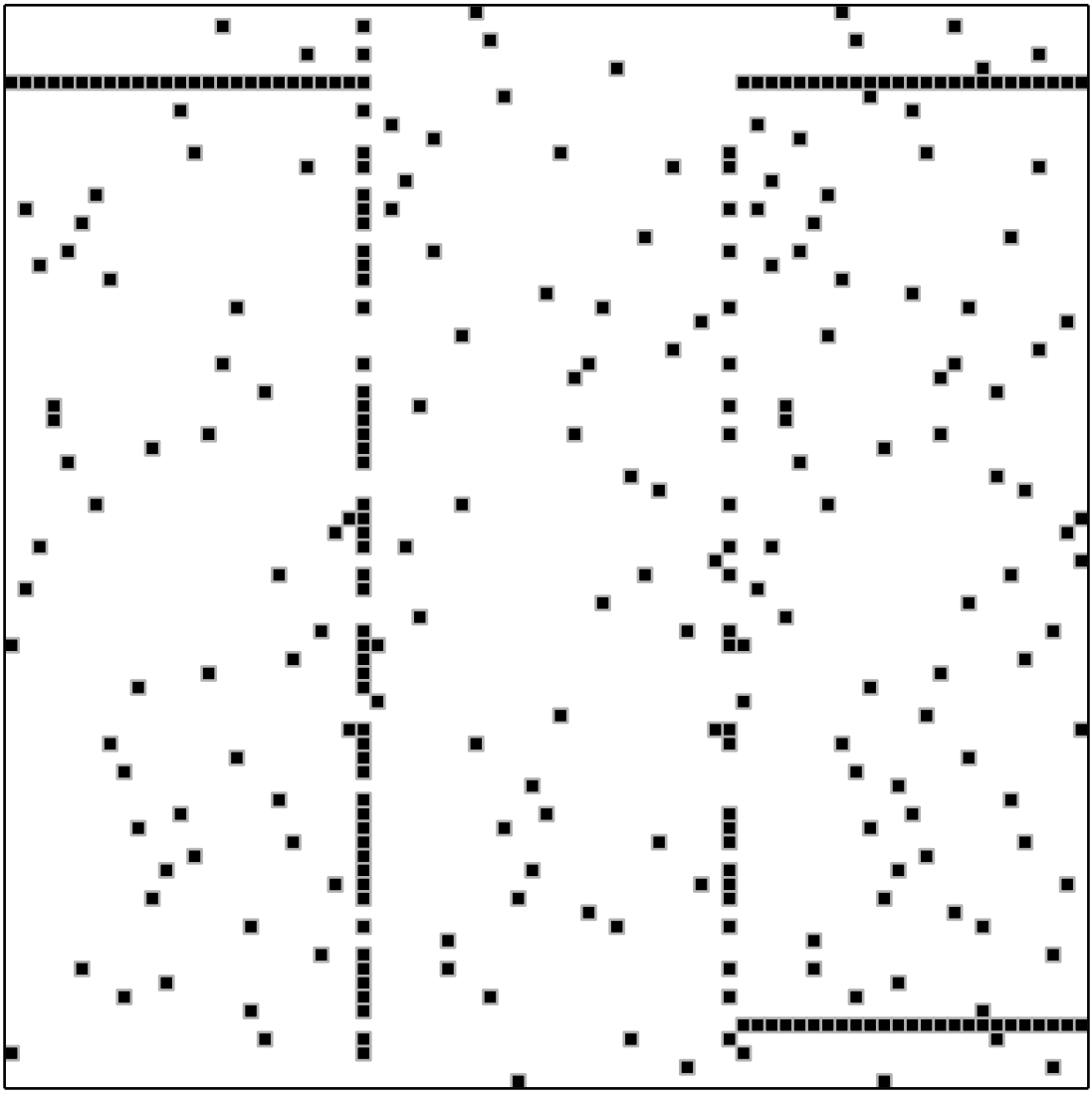

lib1_ex8_4_3-01, cost: 25, diff: 25, explored: 37100, time: 10.00s, gap: 24

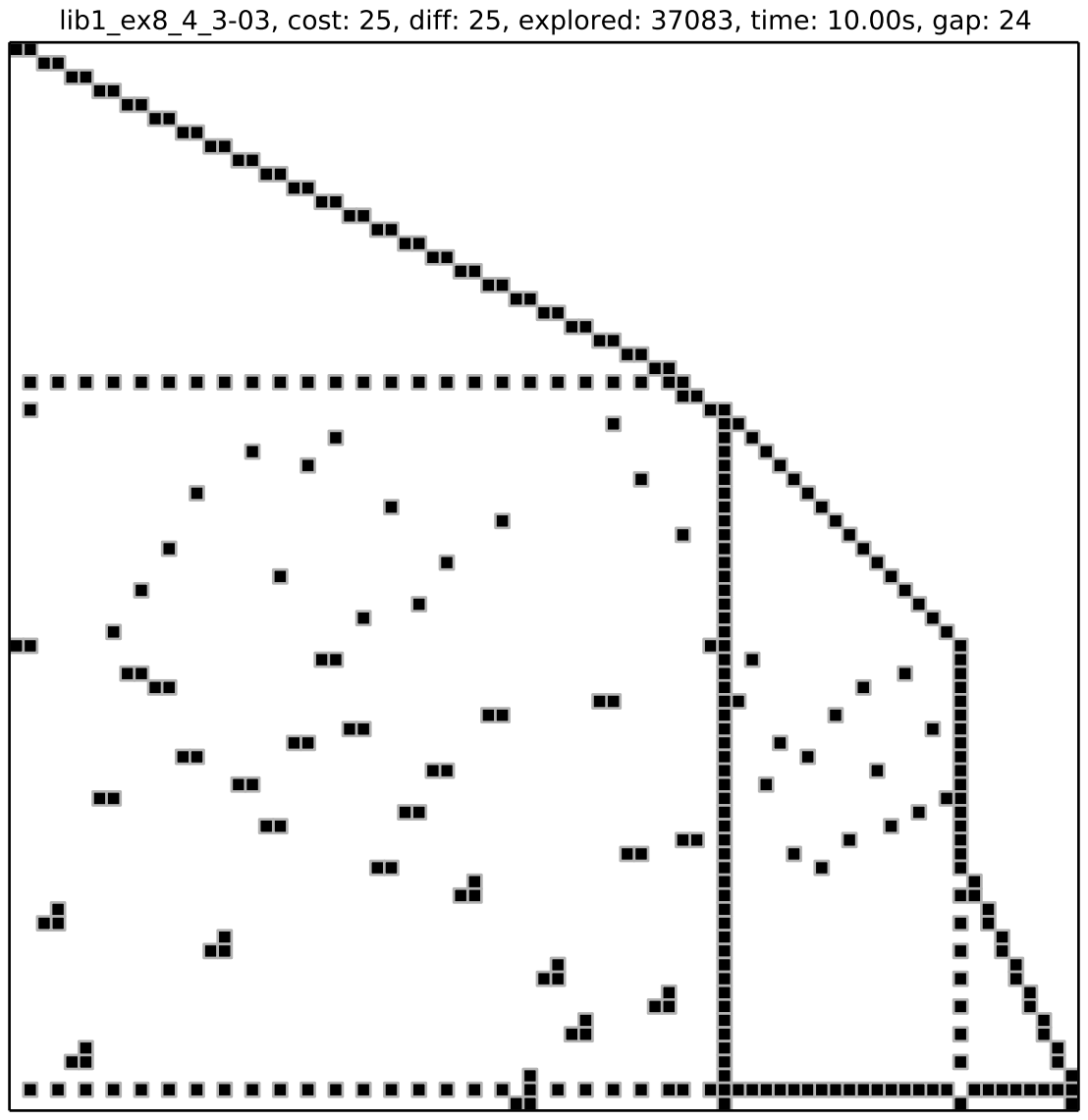
lib1_ex8_4_3-02 77x77 (326) con: 25, var: 52




lib1_ex8_4_3-02, cost: 25, diff: 25, explored: 37082, time: 10.00s, gap: 24

lib1_ex8_4_3-03 77x77 (326) con: 25, var: 52

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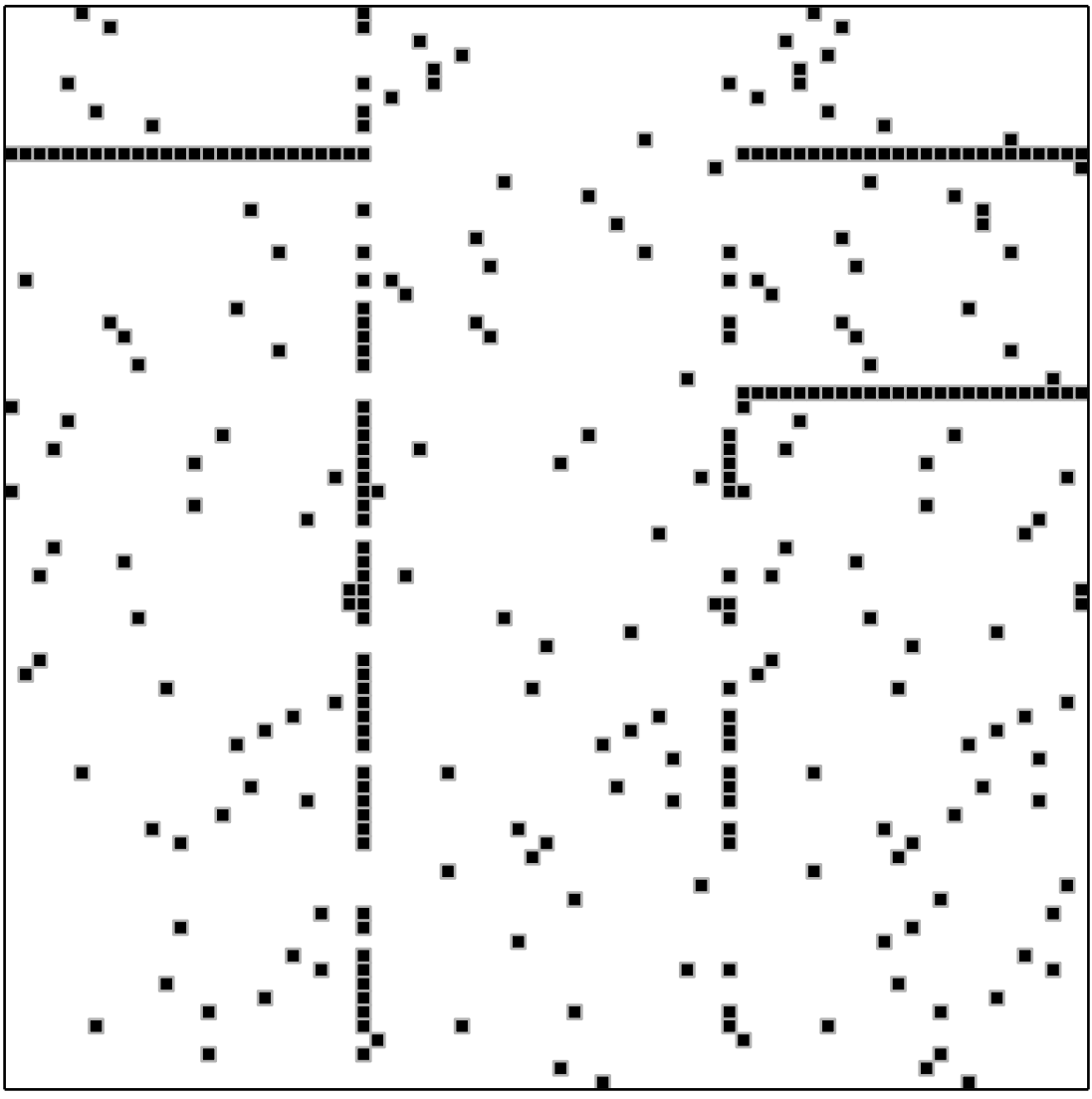
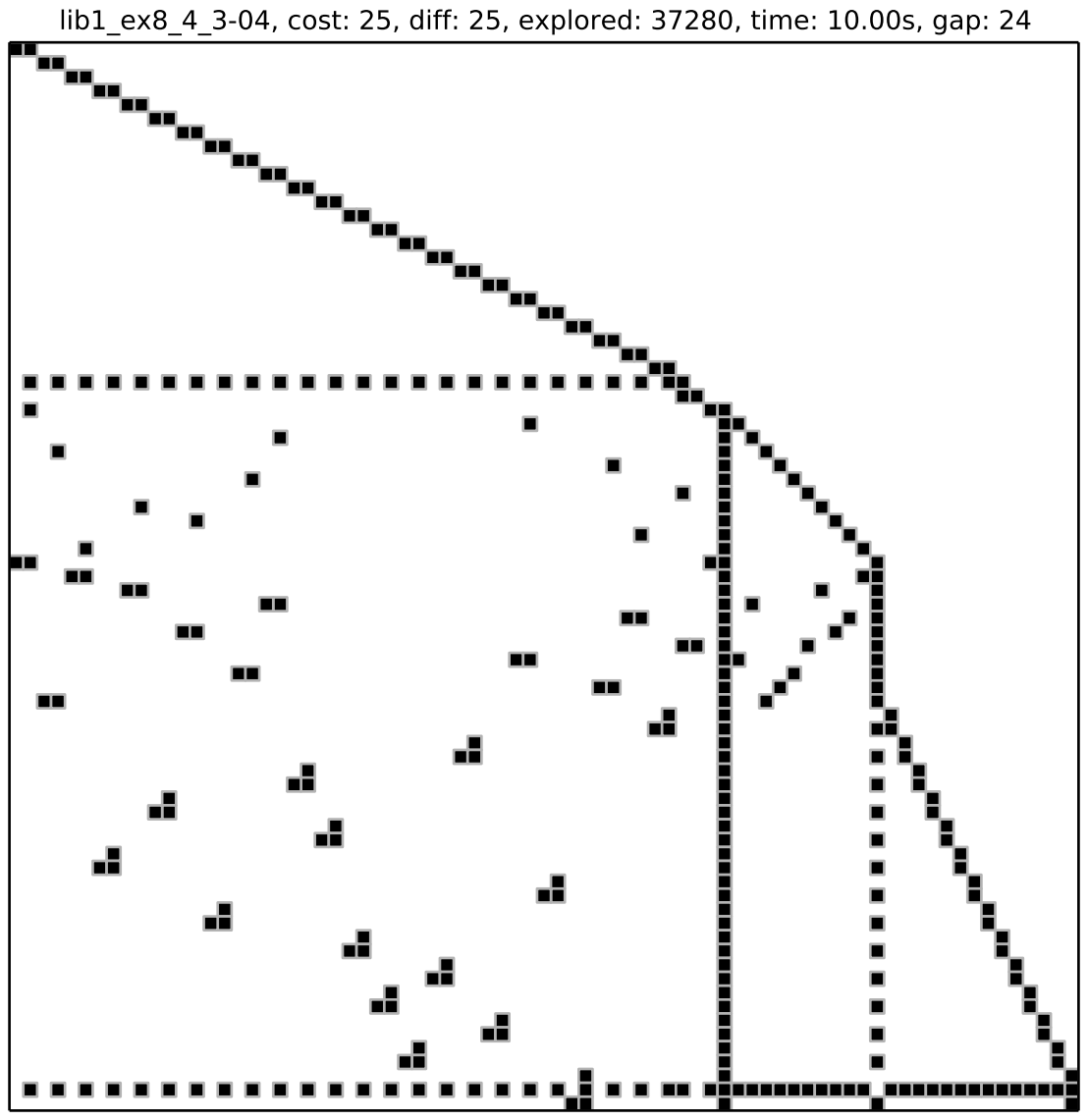
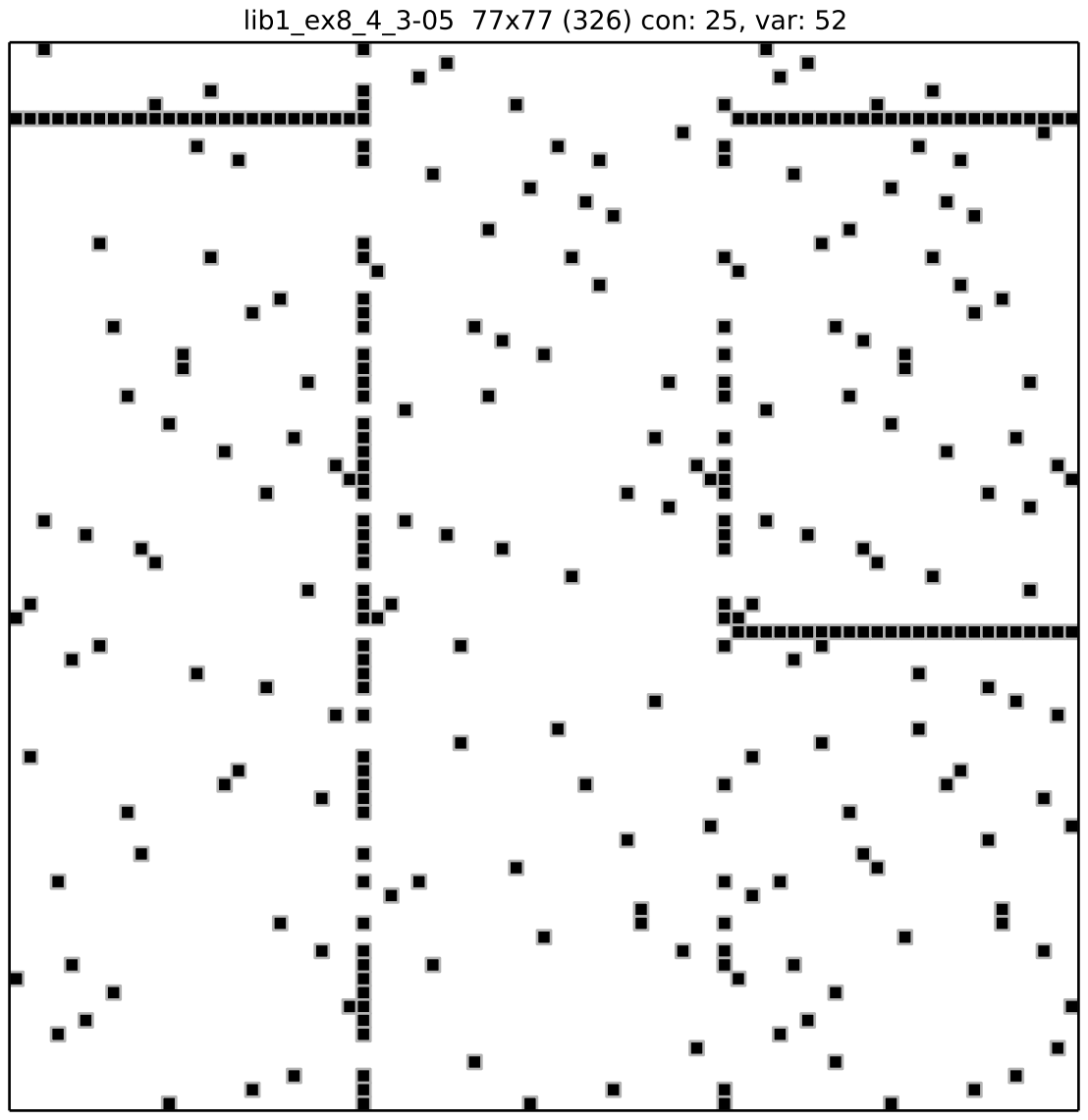
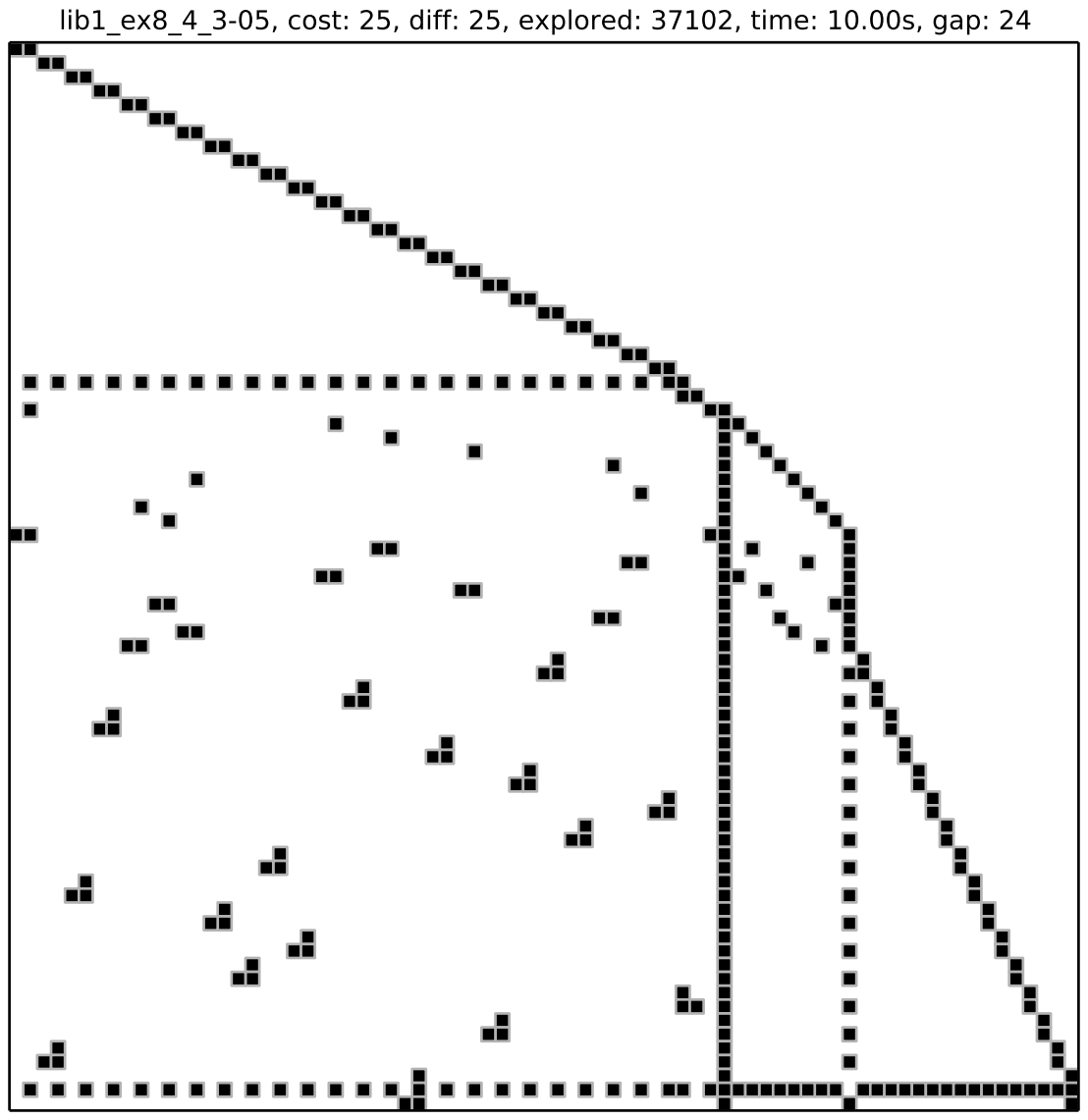
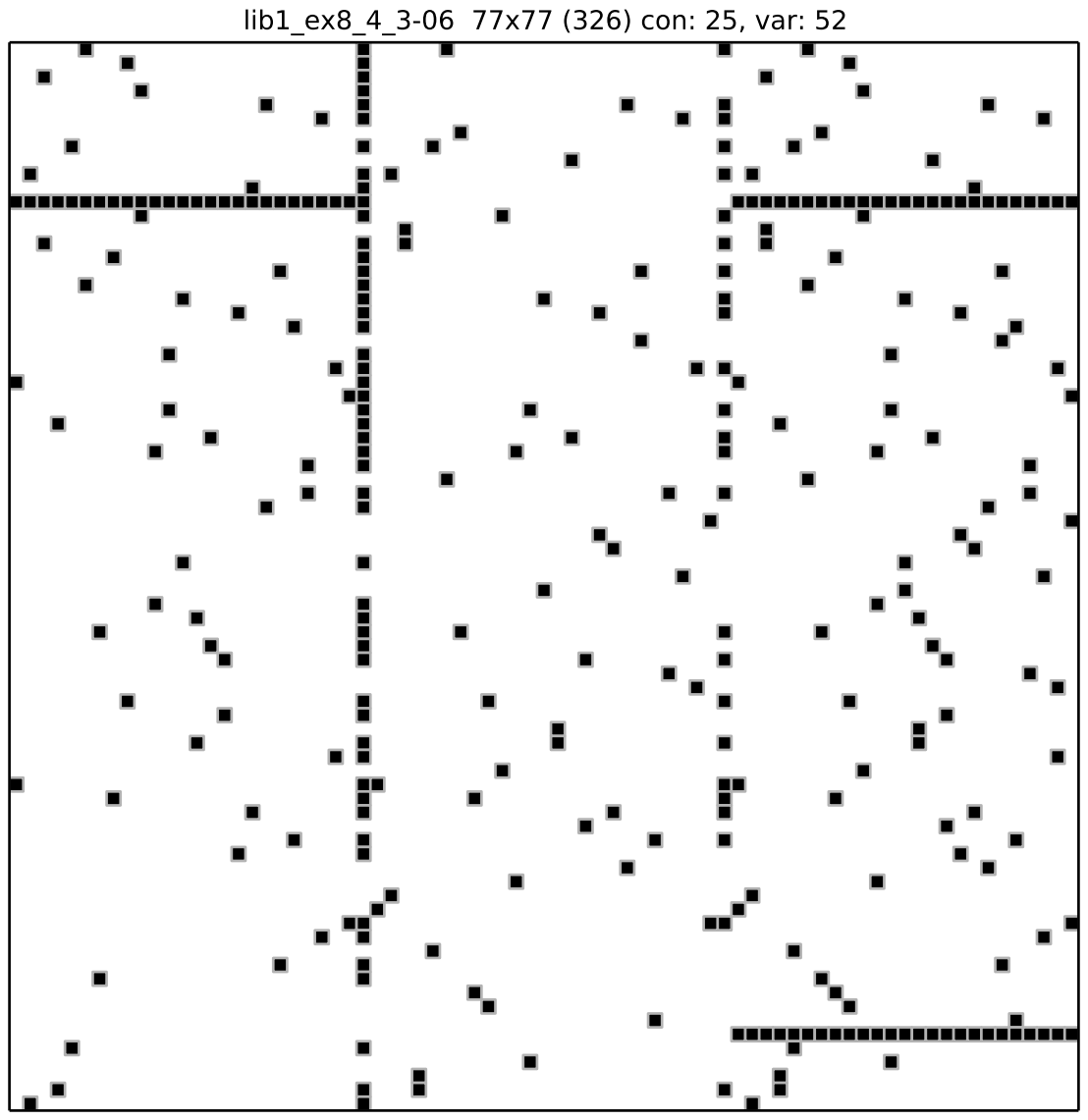
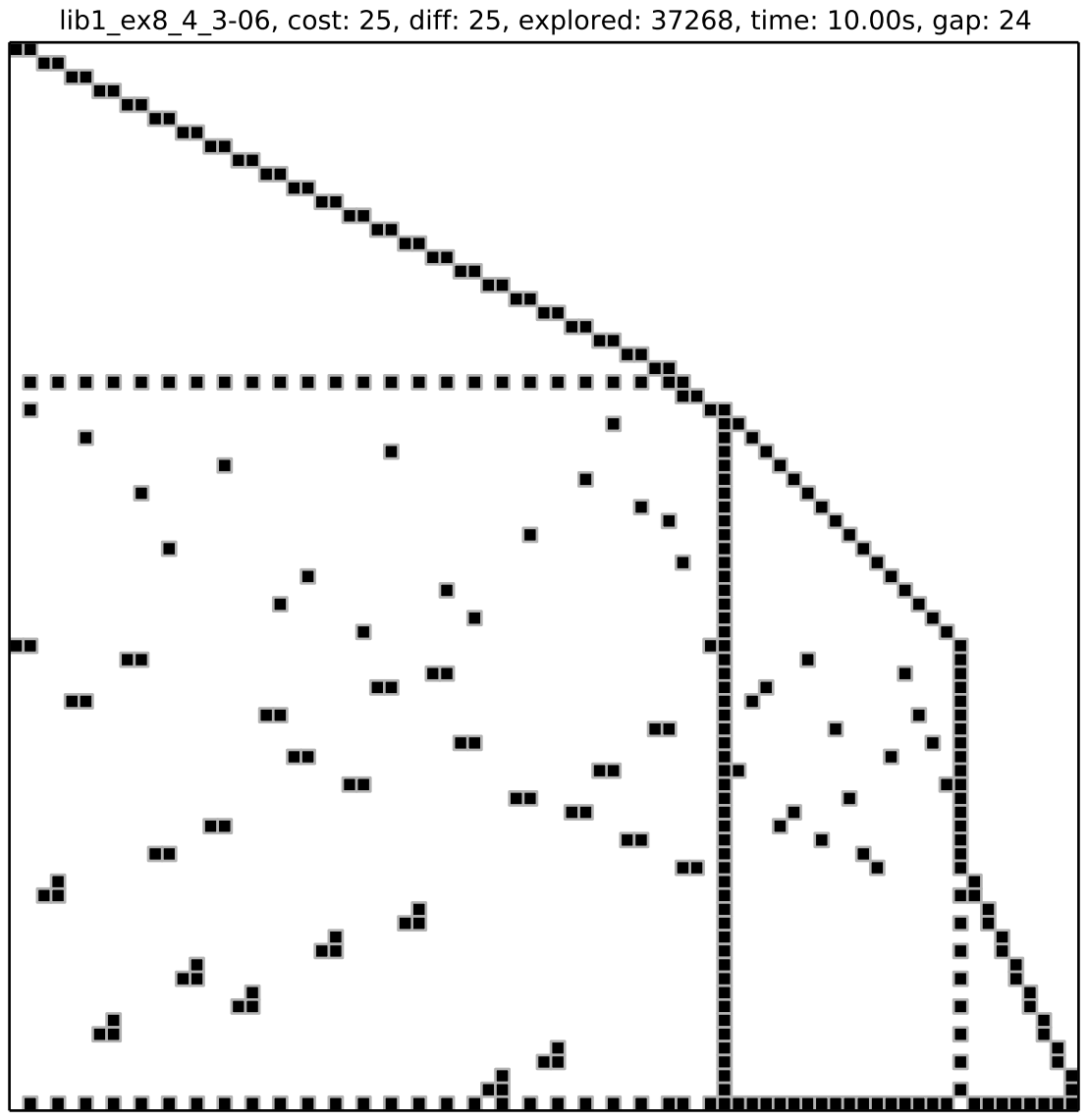

lib1_ex8_4_3-04 77x77 (326) con: 25, var: 52


lib1_ex8_4_3-04, cost: 25, diff: 25, explored: 37280, time: 10.00s, gap: 24

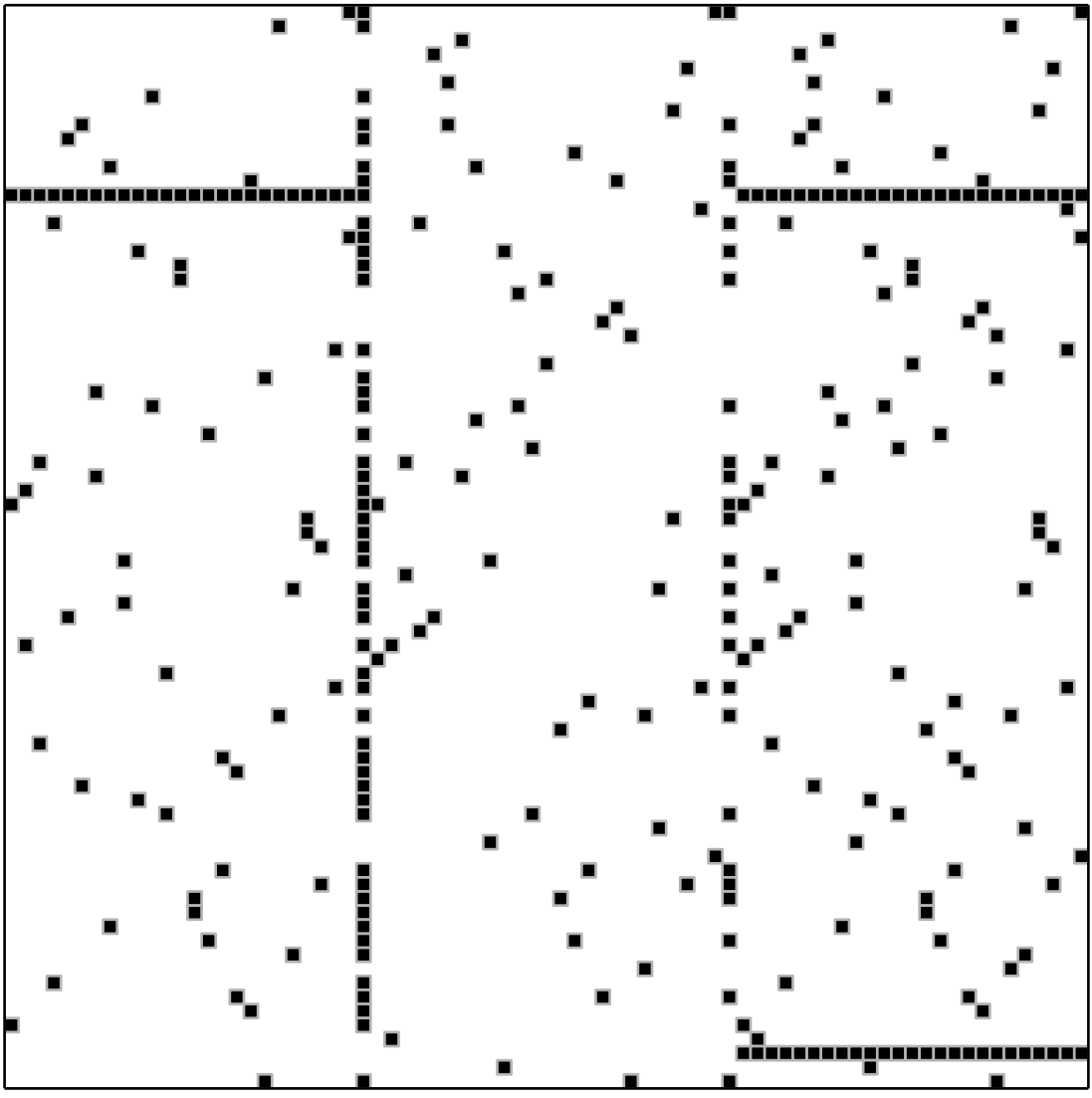

lib1_ex8_4_3-05 77x77 (326) con: 25, var: 52

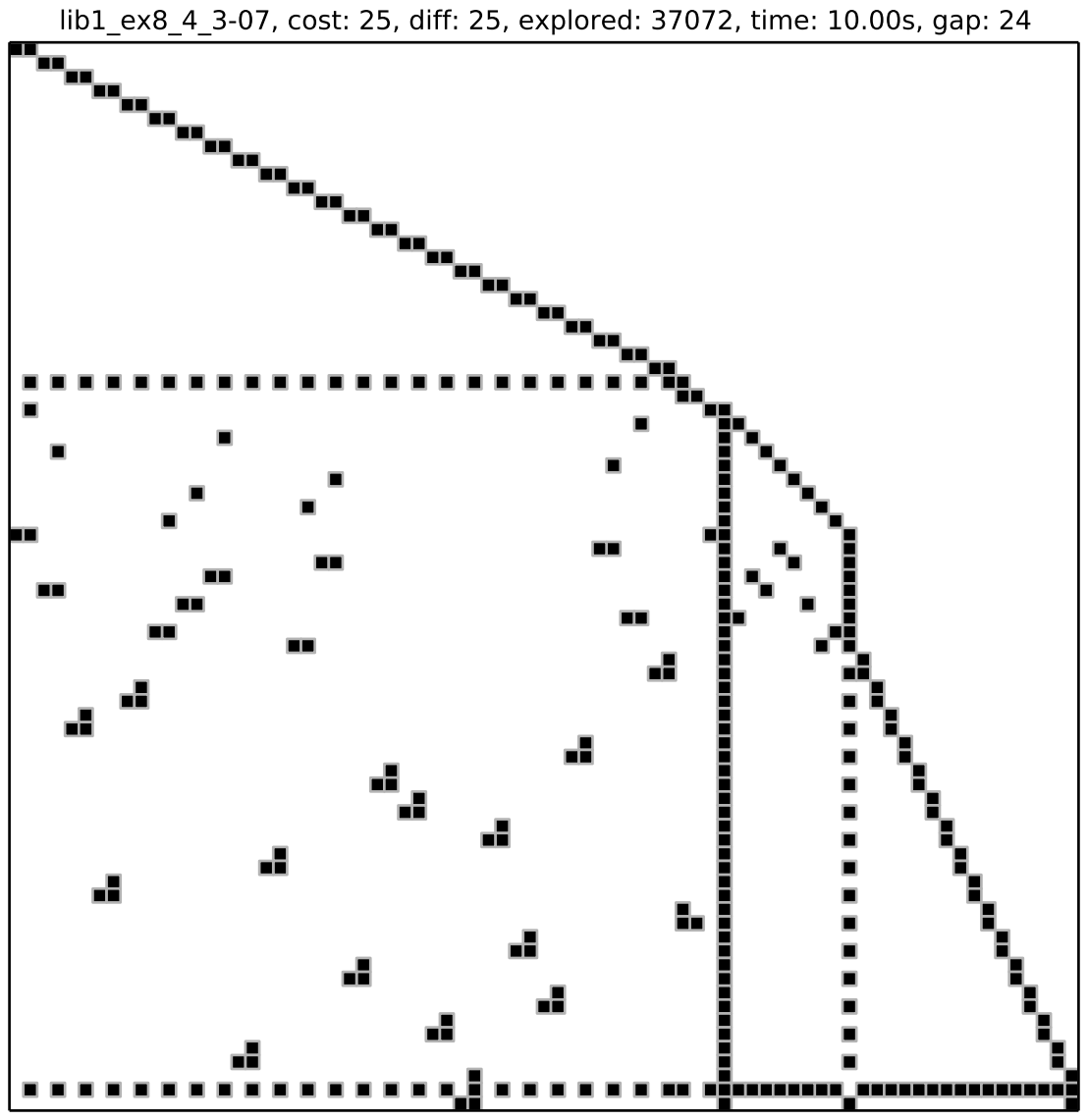

lib1_ex8_4_3-05, cost: 25, diff: 25, explored: 37102, time: 10.00s, gap: 24


lib1_ex8_4_3-06 77x77 (326) con: 25, var: 52


lib1_ex8_4_3-06, cost: 25, diff: 25, explored: 37268, time: 10.00s, gap: 24

lib1_ex8_4_3-07 77x77 (326) con: 25, var: 52

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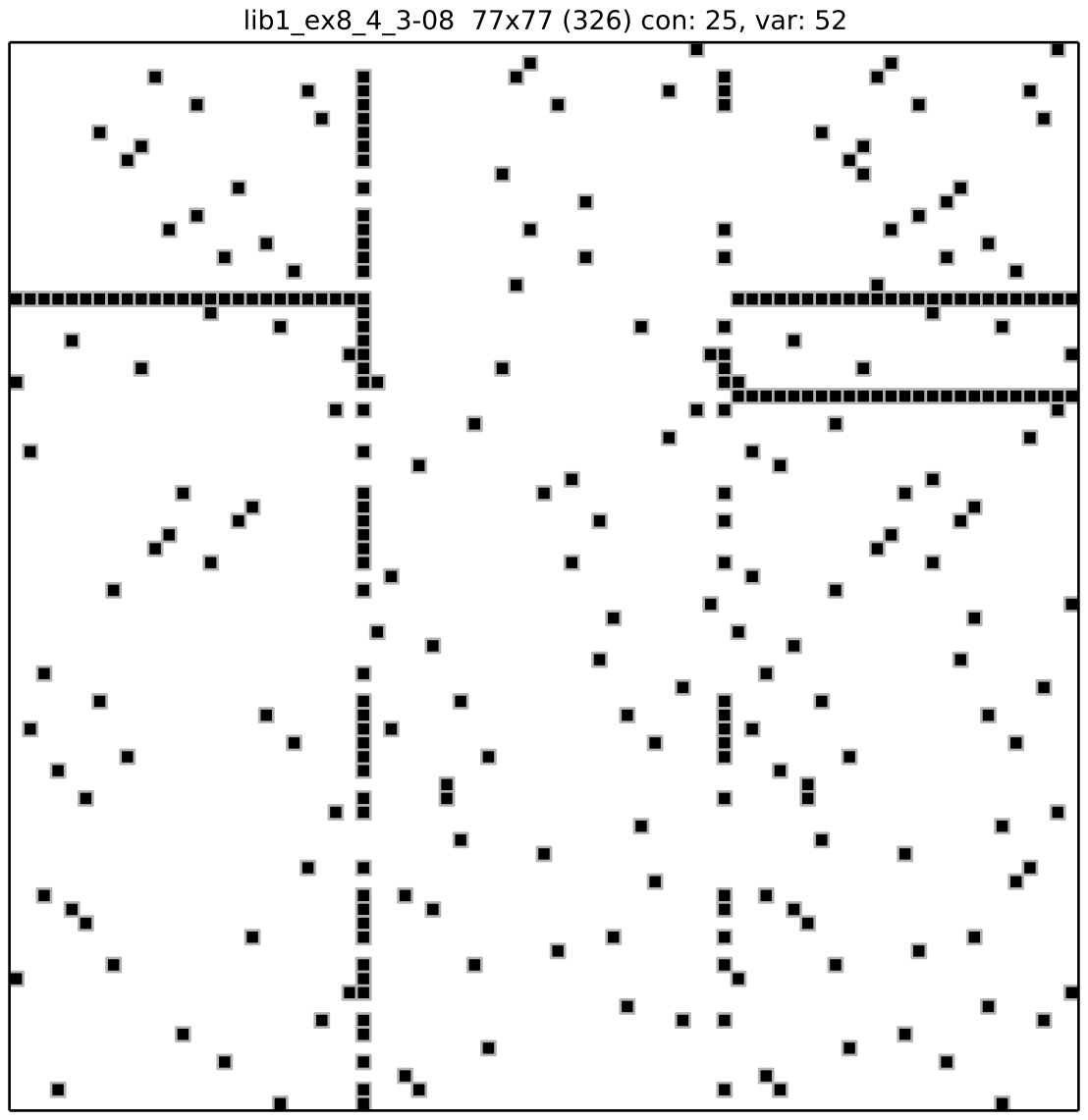
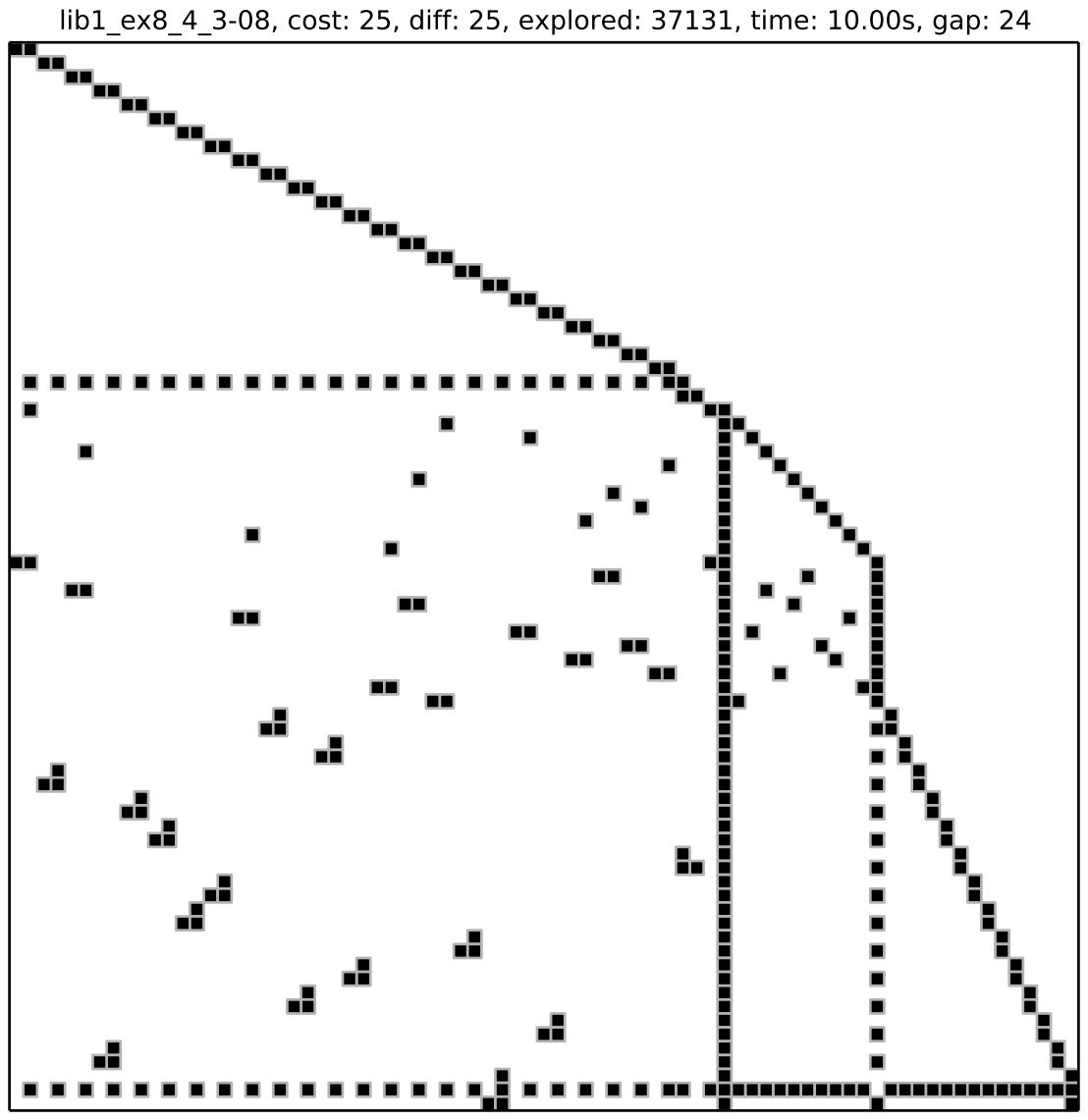
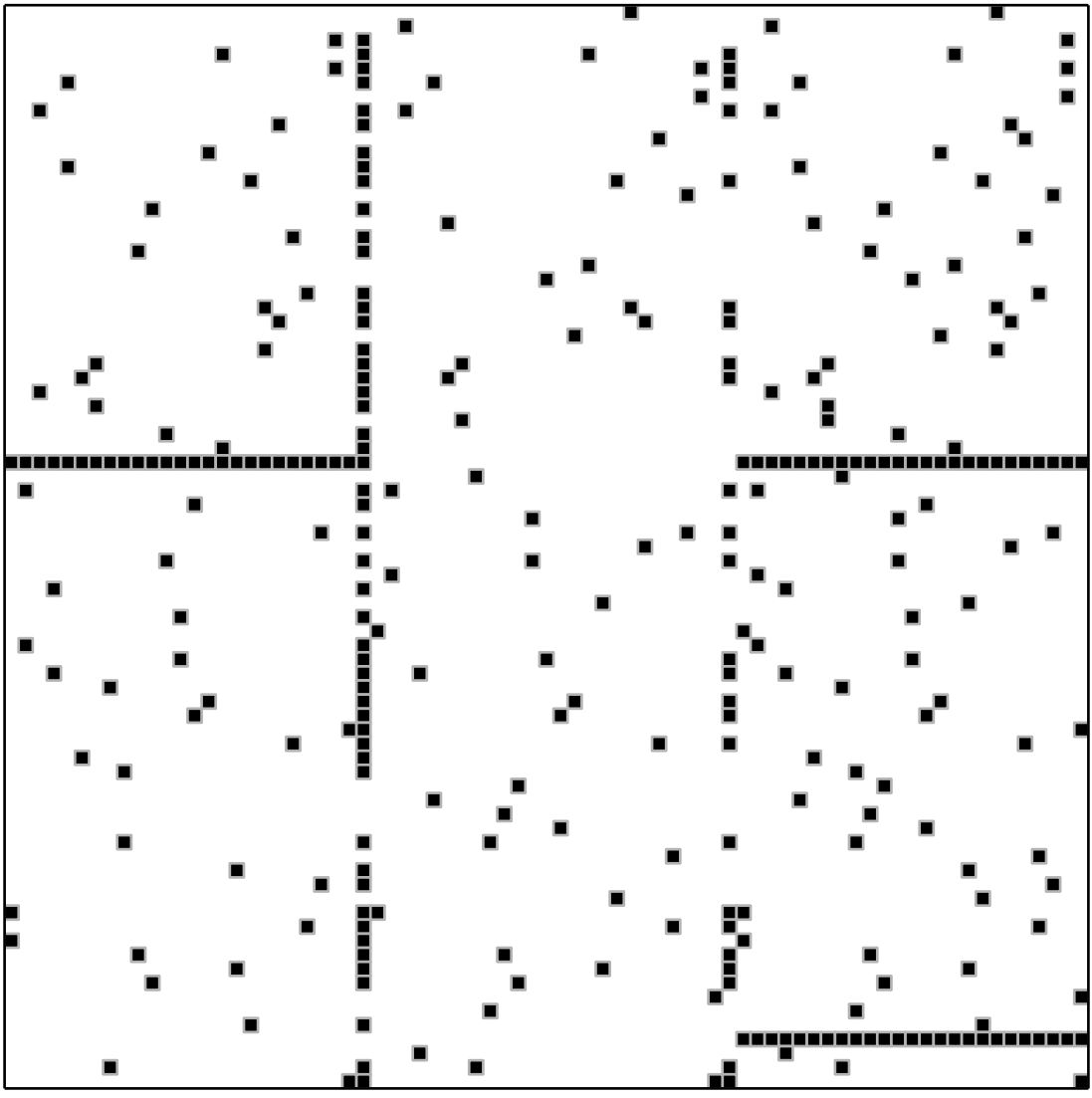
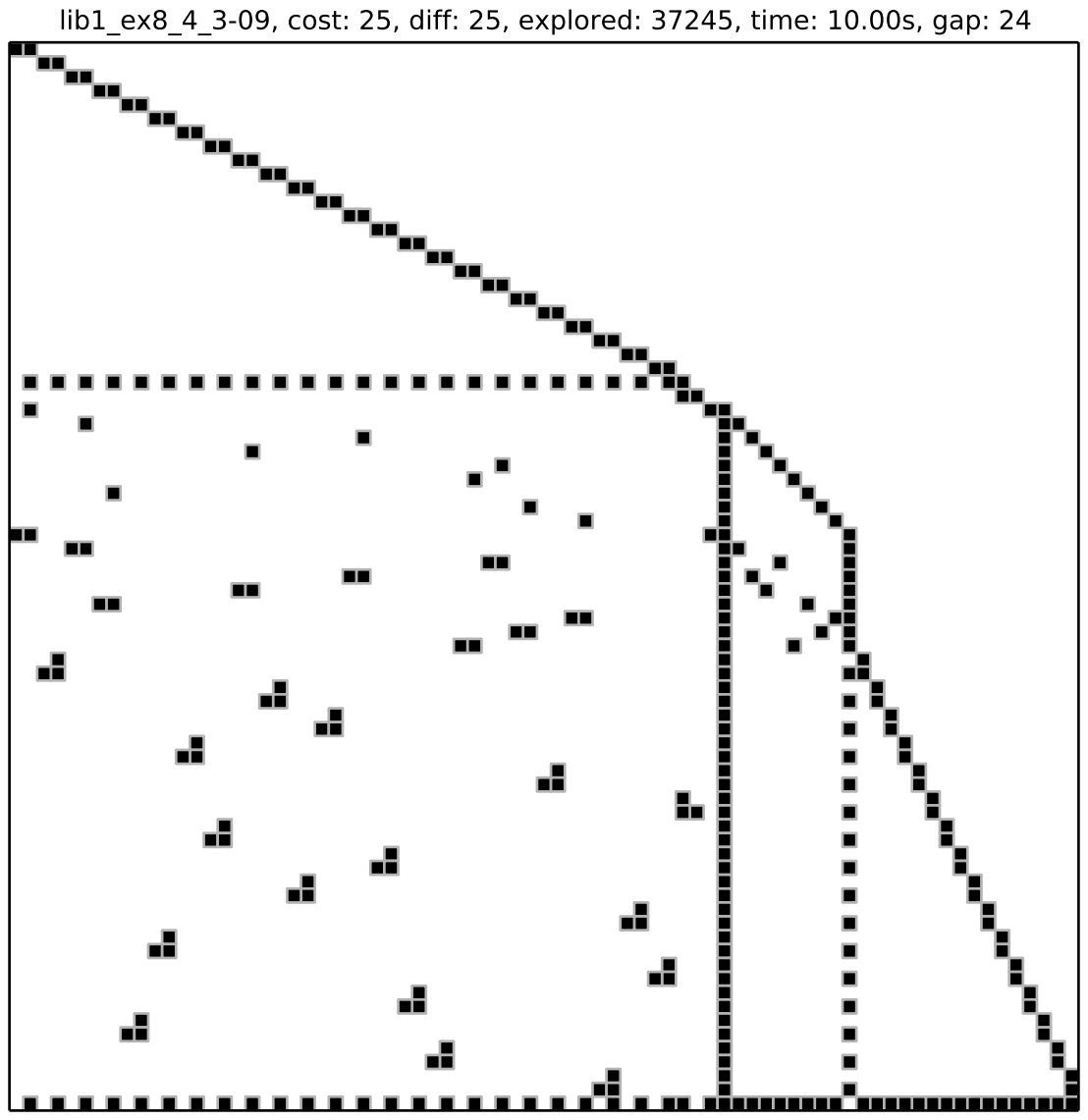

lib1_ex8_4_3-08 77x77 (326) con: 25, var: 52


lib1_ex8_4_3-08, cost: 25, diff: 25, explored: 37131, time: 10.00s, gap: 24

lib1_ex8_4_3-09 77x77 (326) con: 25, var: 52

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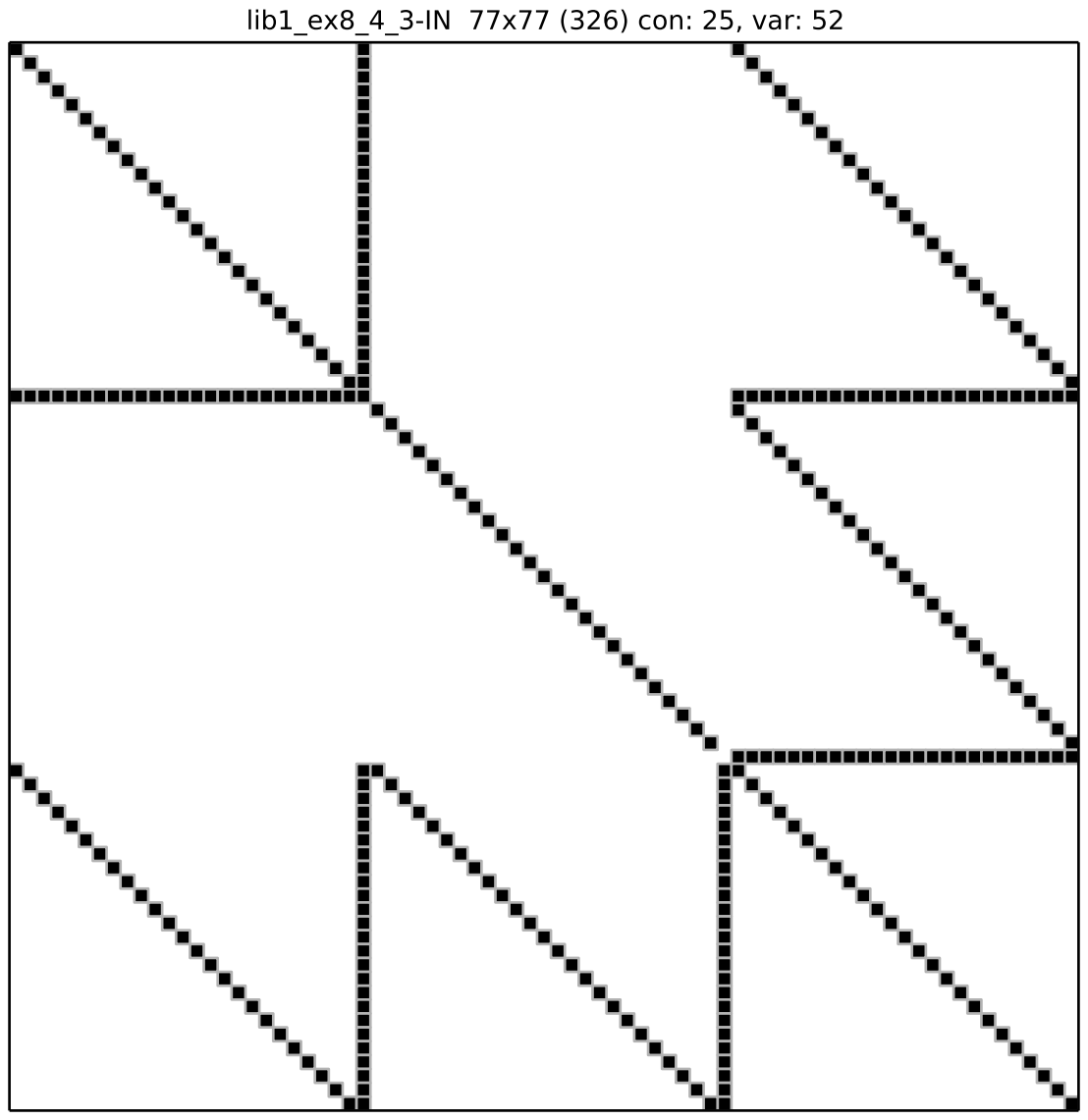
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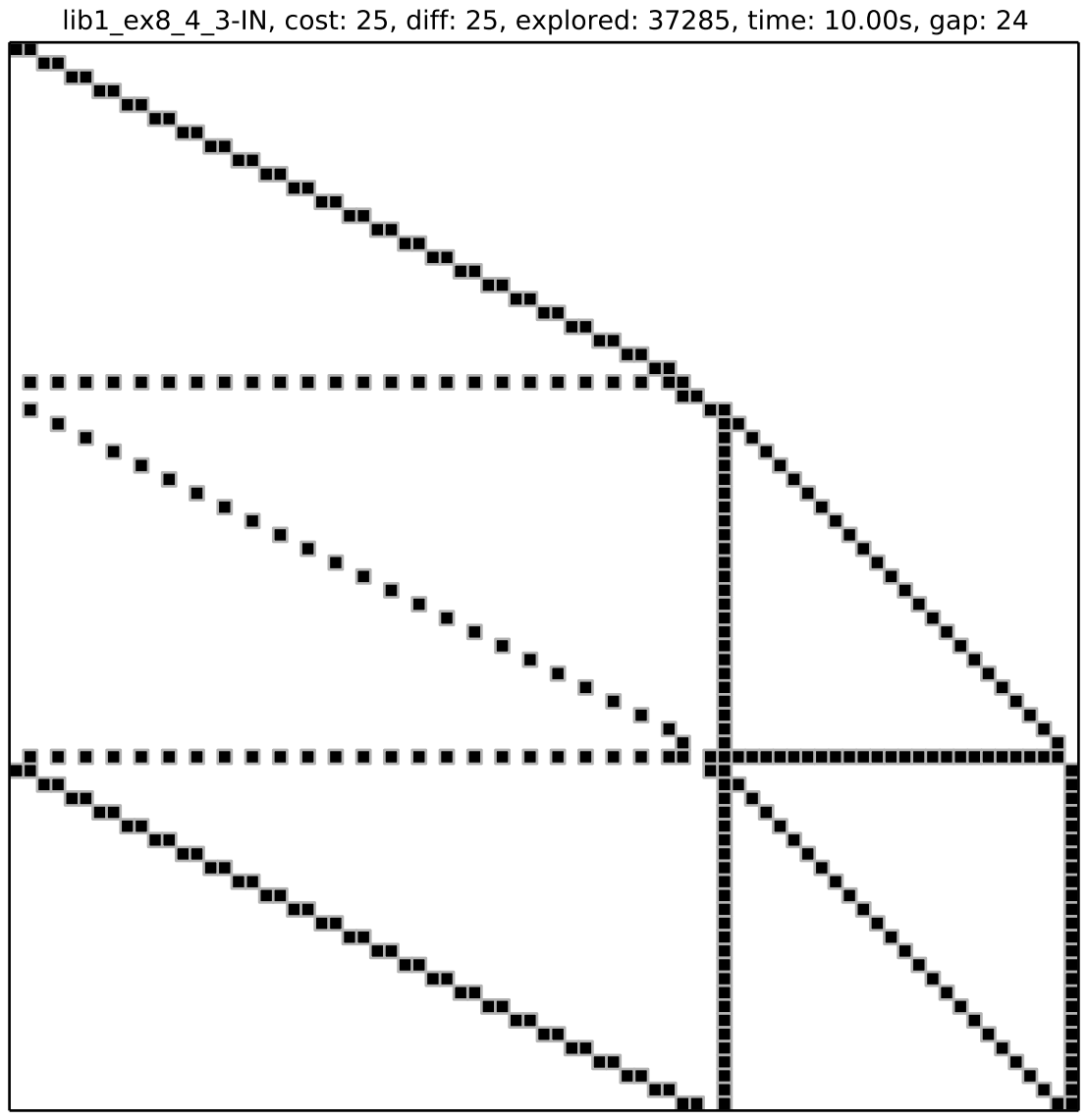
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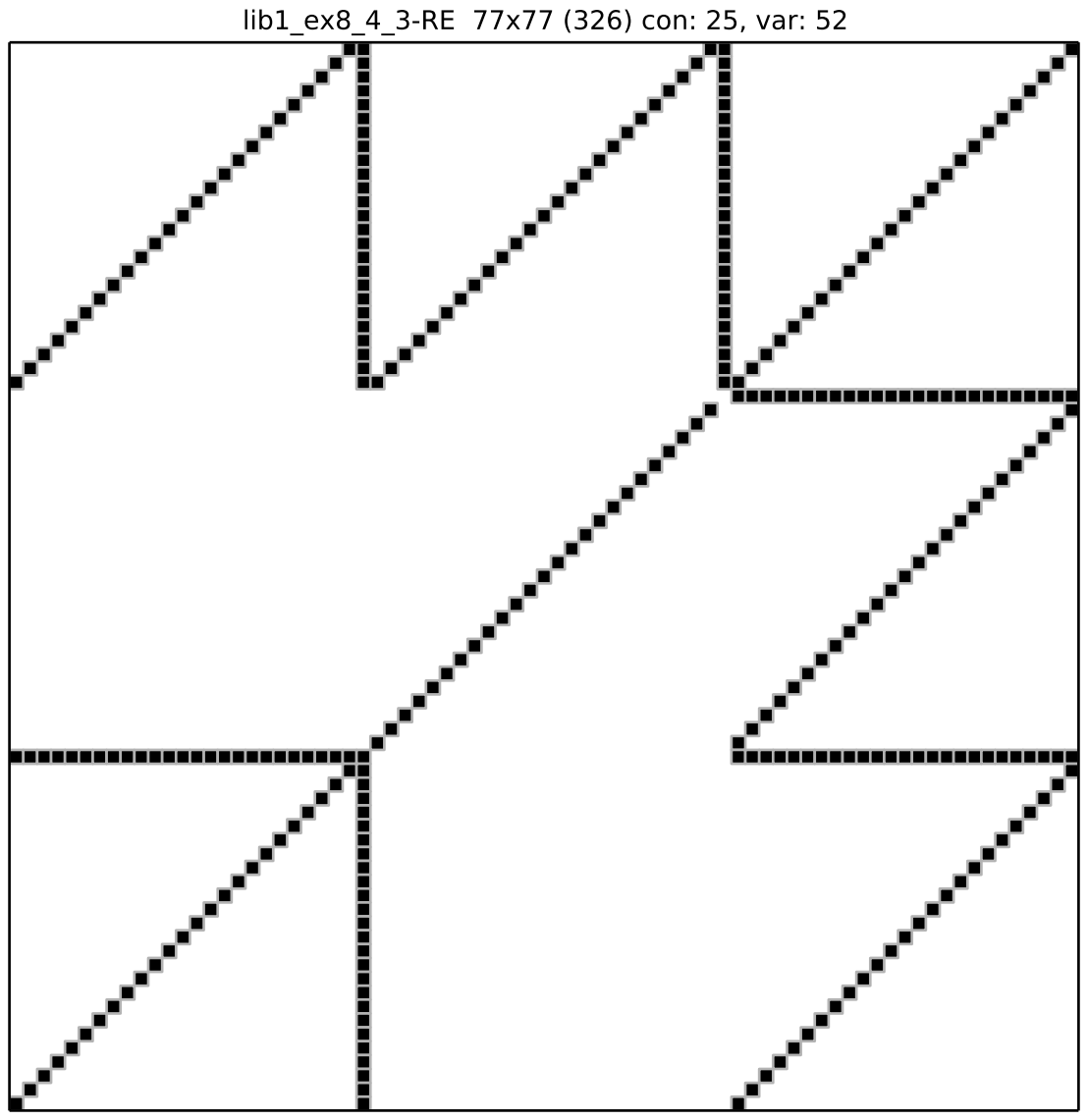
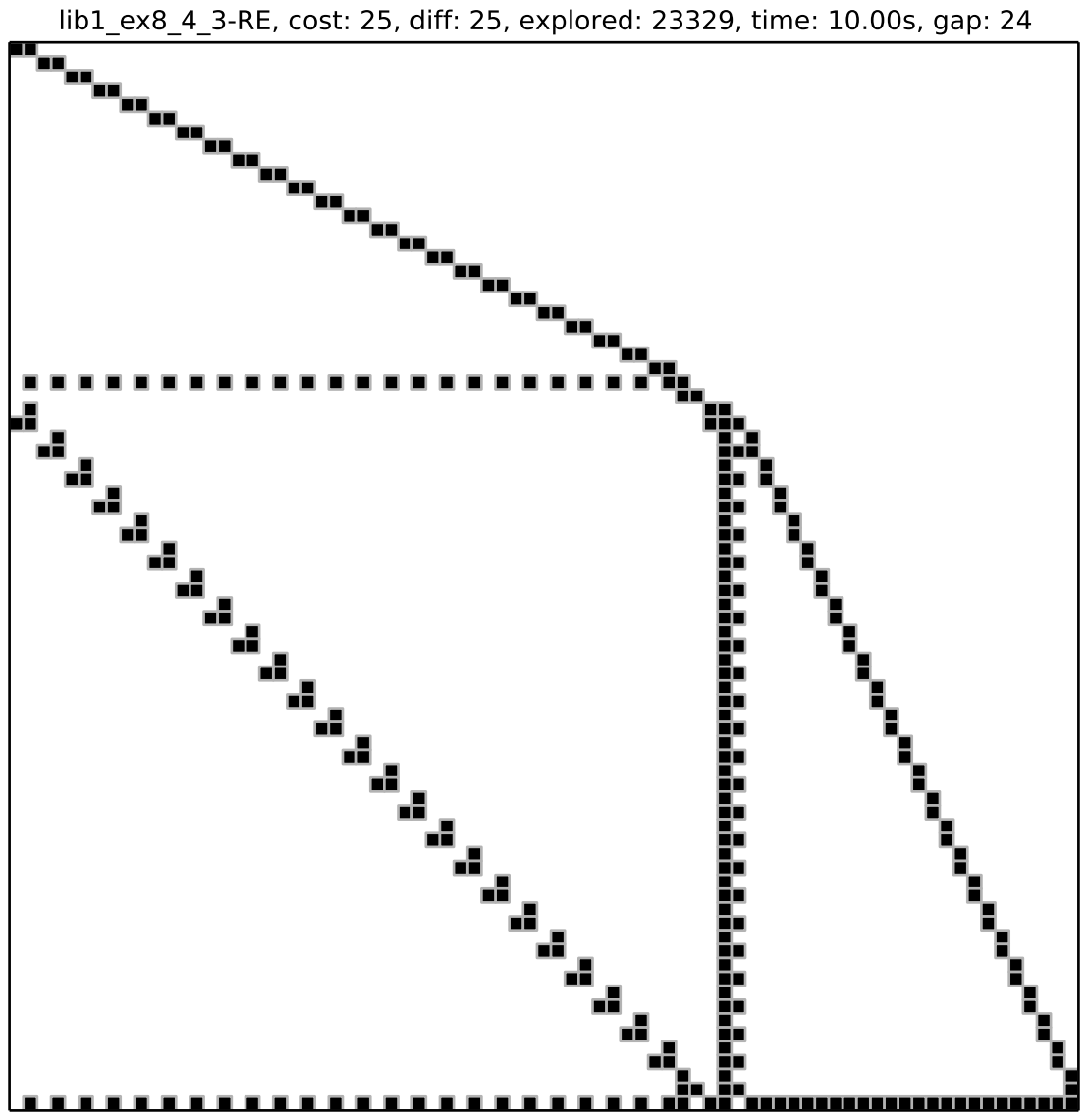
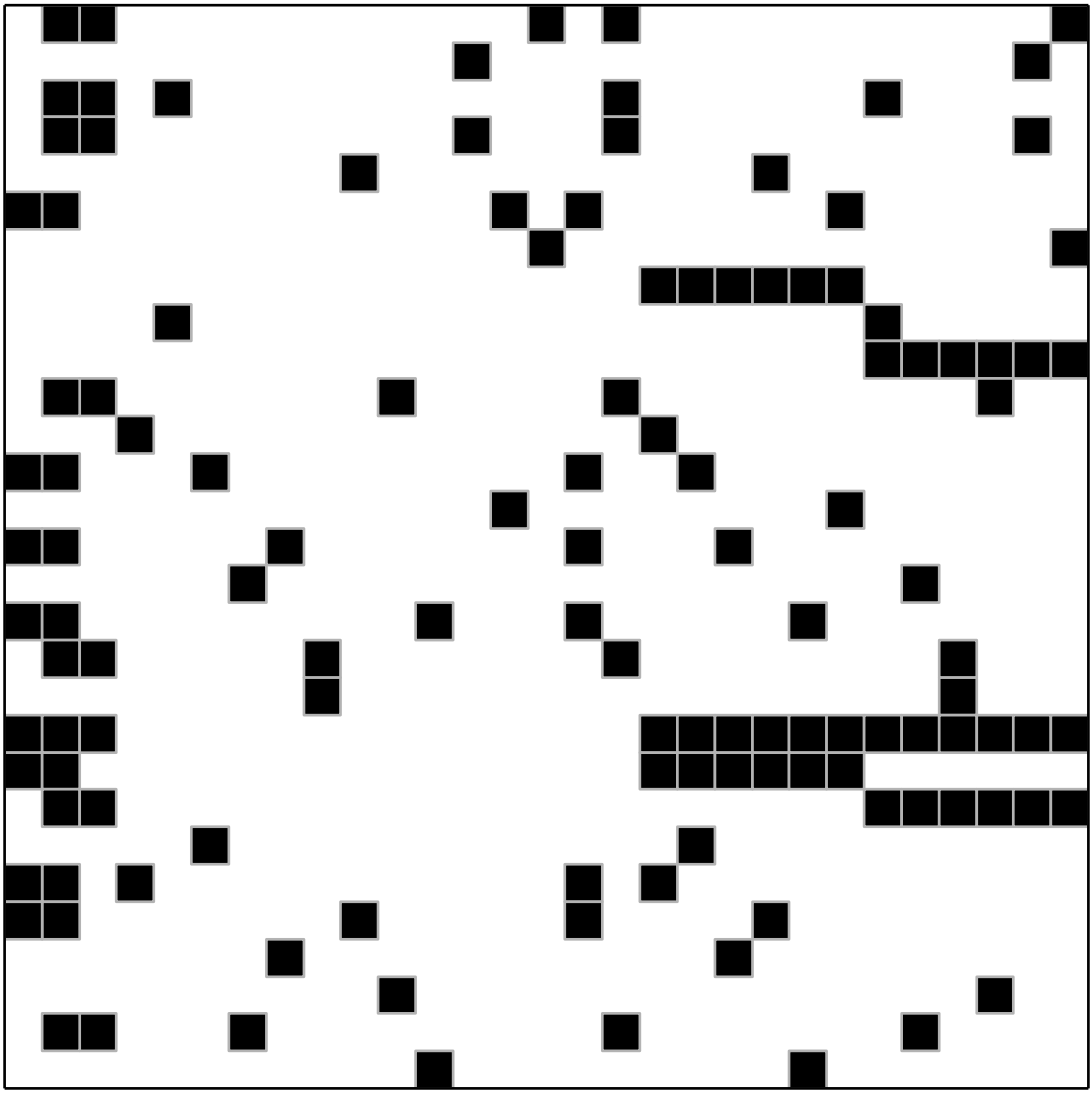
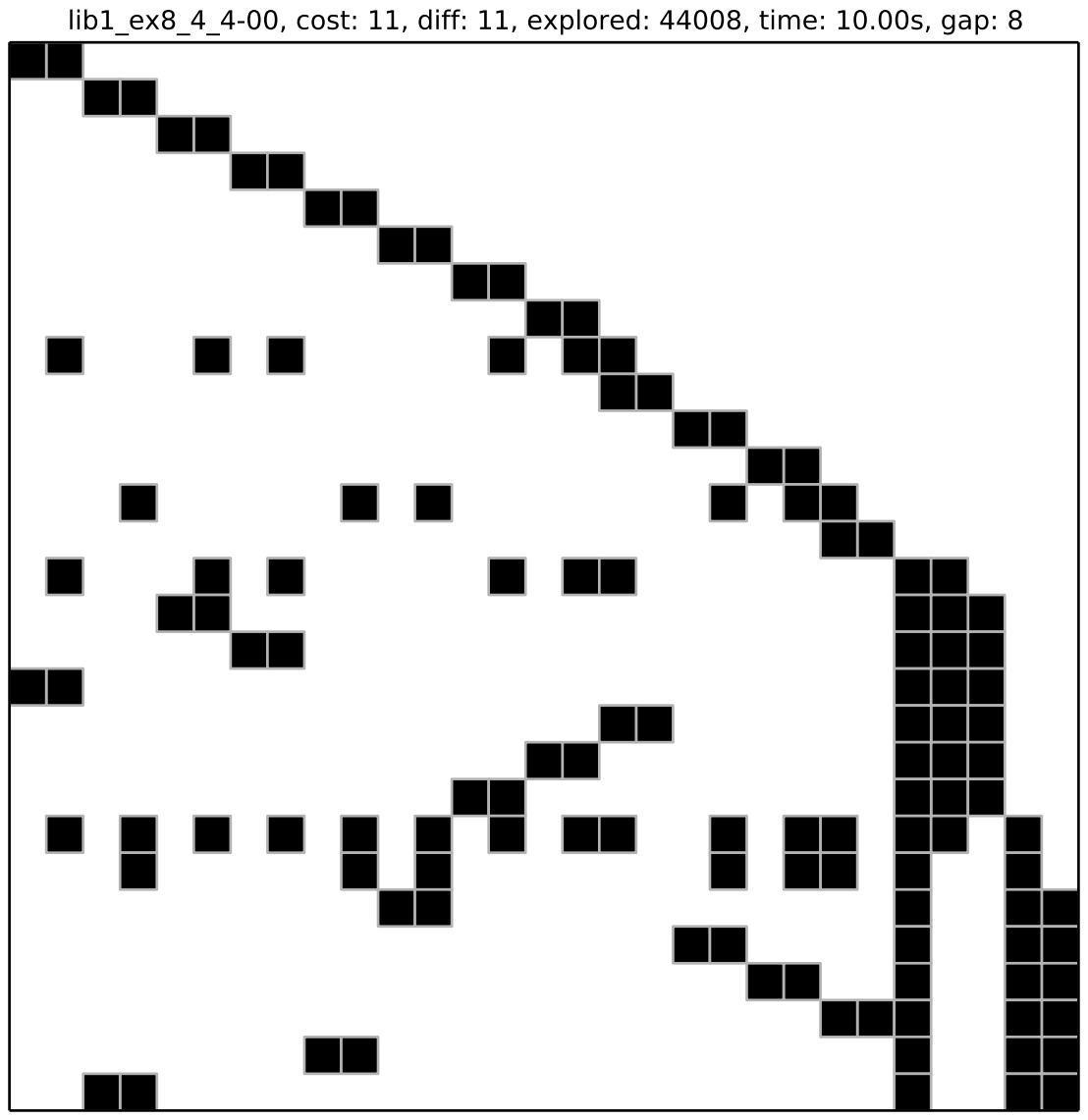

lib1_ex8_4_3-RE 77x77 (326) con: 25, var: 52

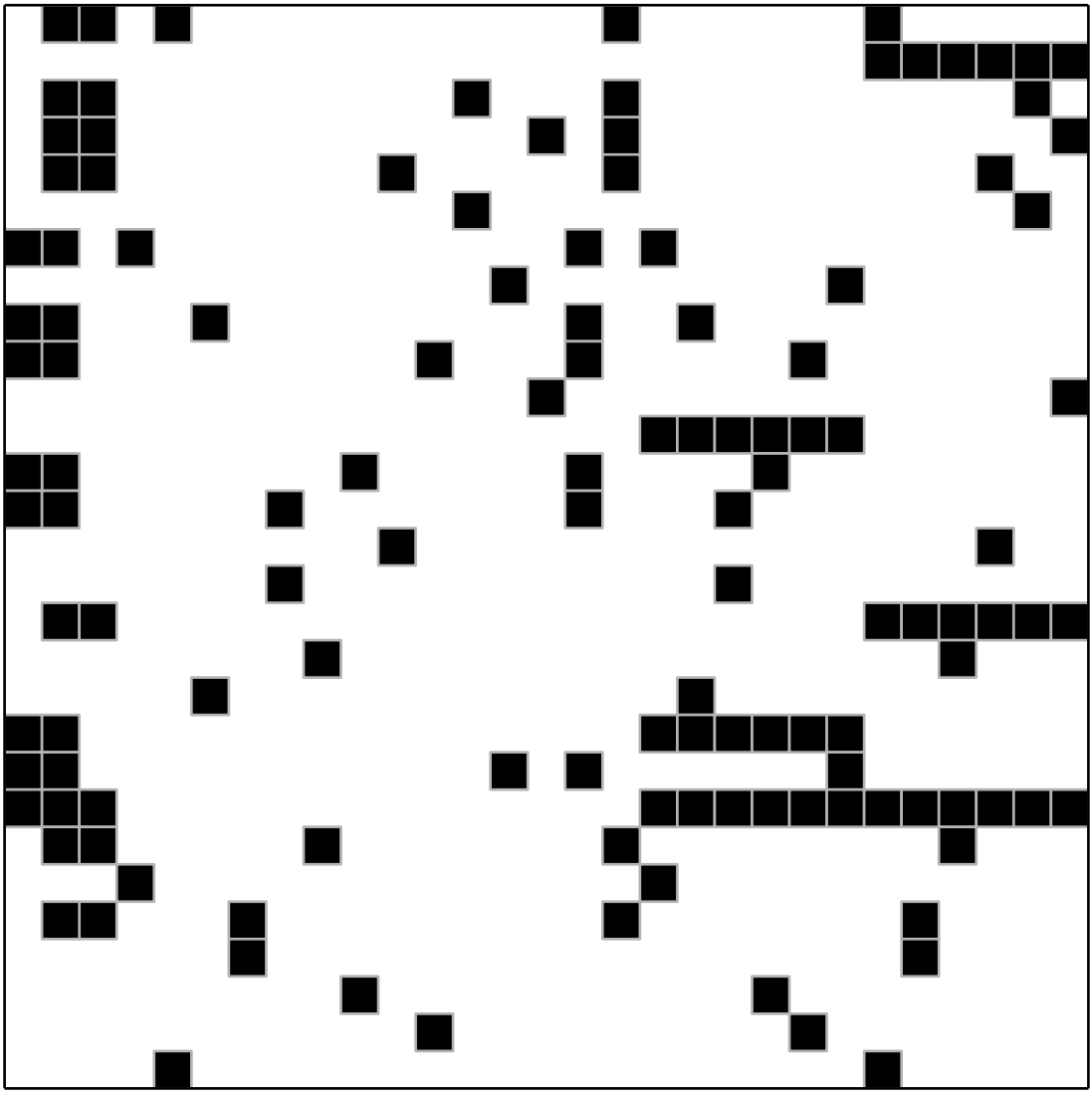

lib1_ex8_4_3-RE, cost: 25, diff: 25, explored: 23329, time: 10.00s, gap: 24

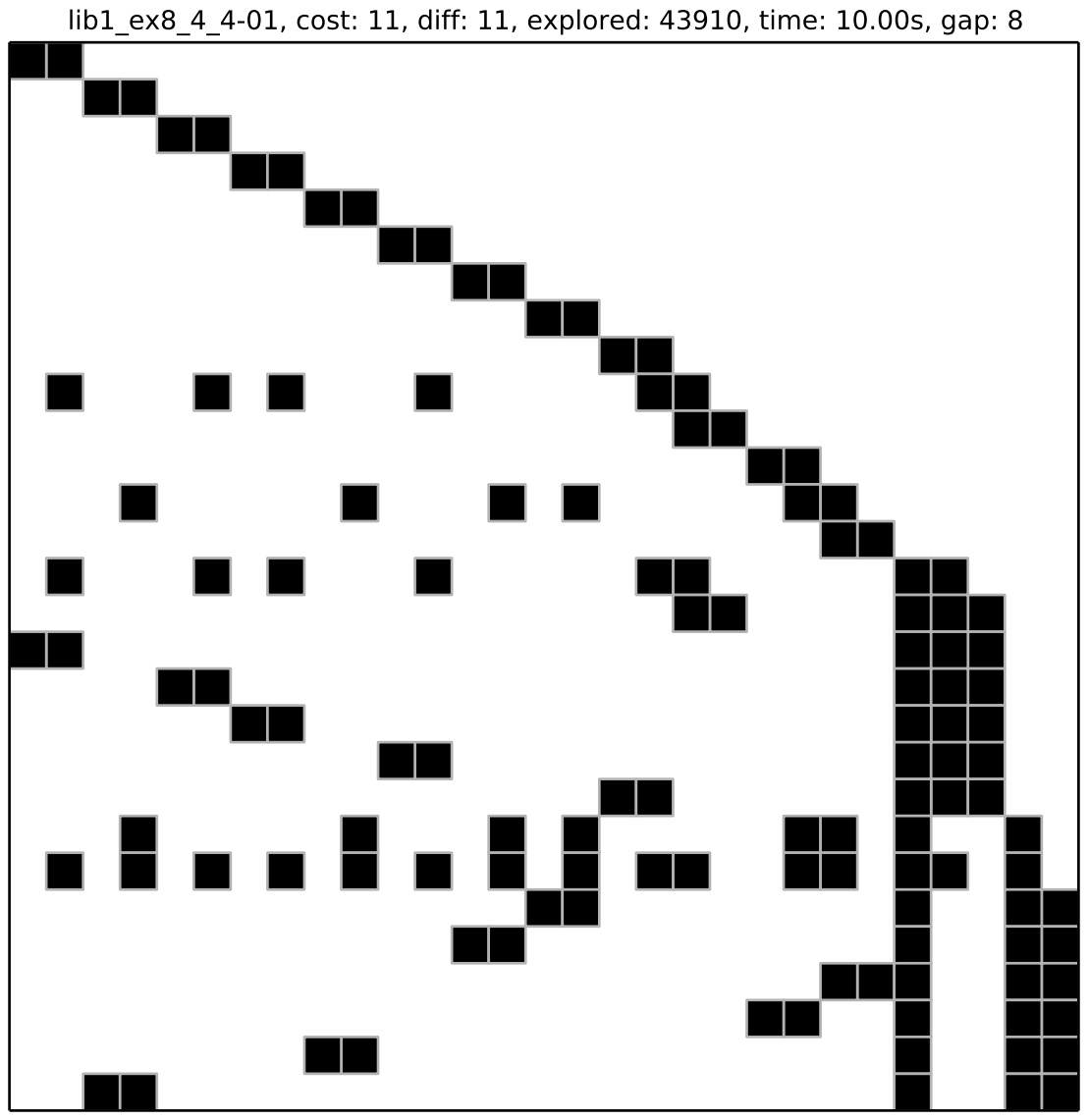
lib1_ex8_4_4-00 29x29 (127) con: 12, var: 17



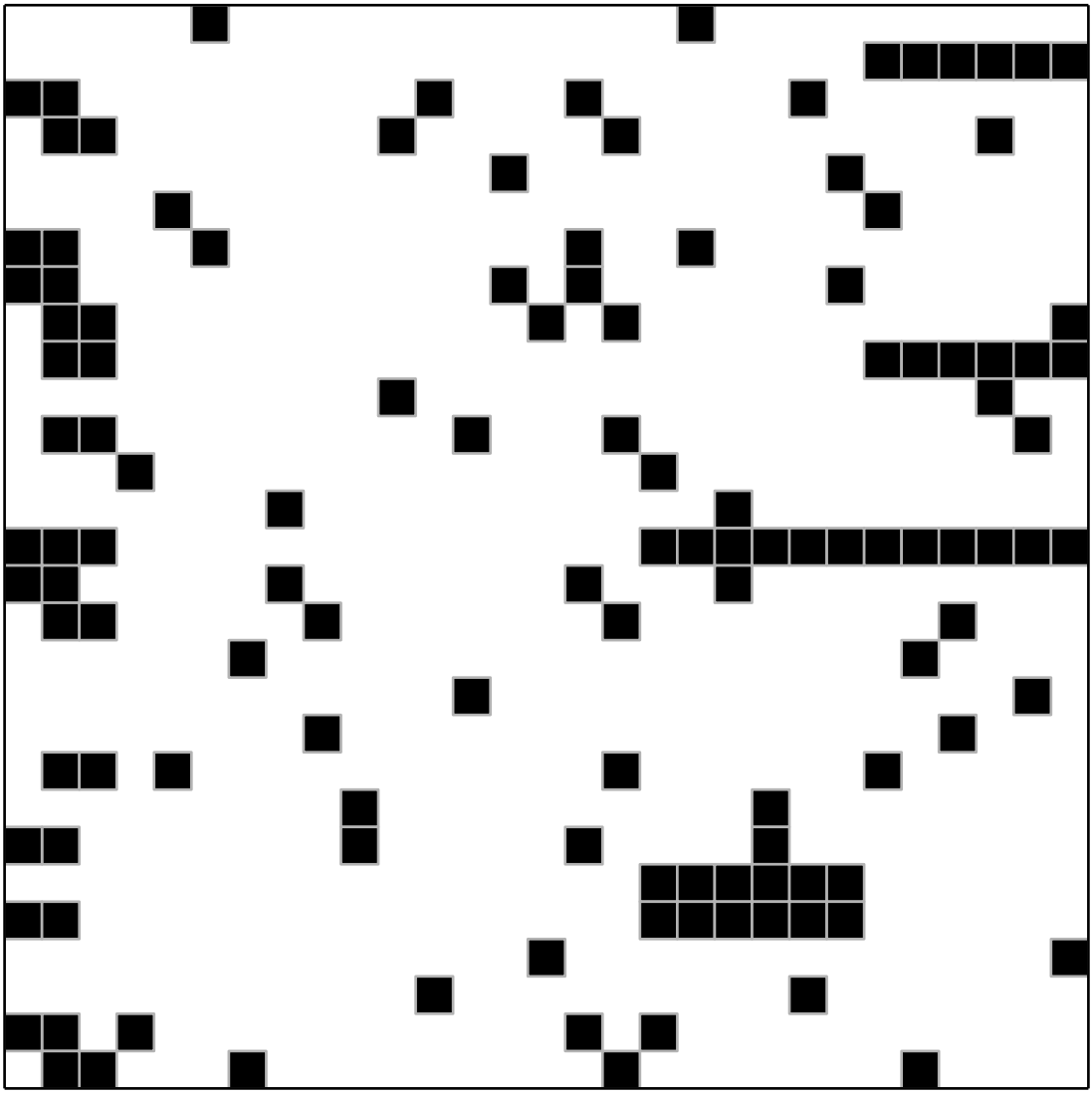

lib1_ex8_4_4-00, cost: 11, diff: 11, explored: 44008, time: 10.00s, gap: 8

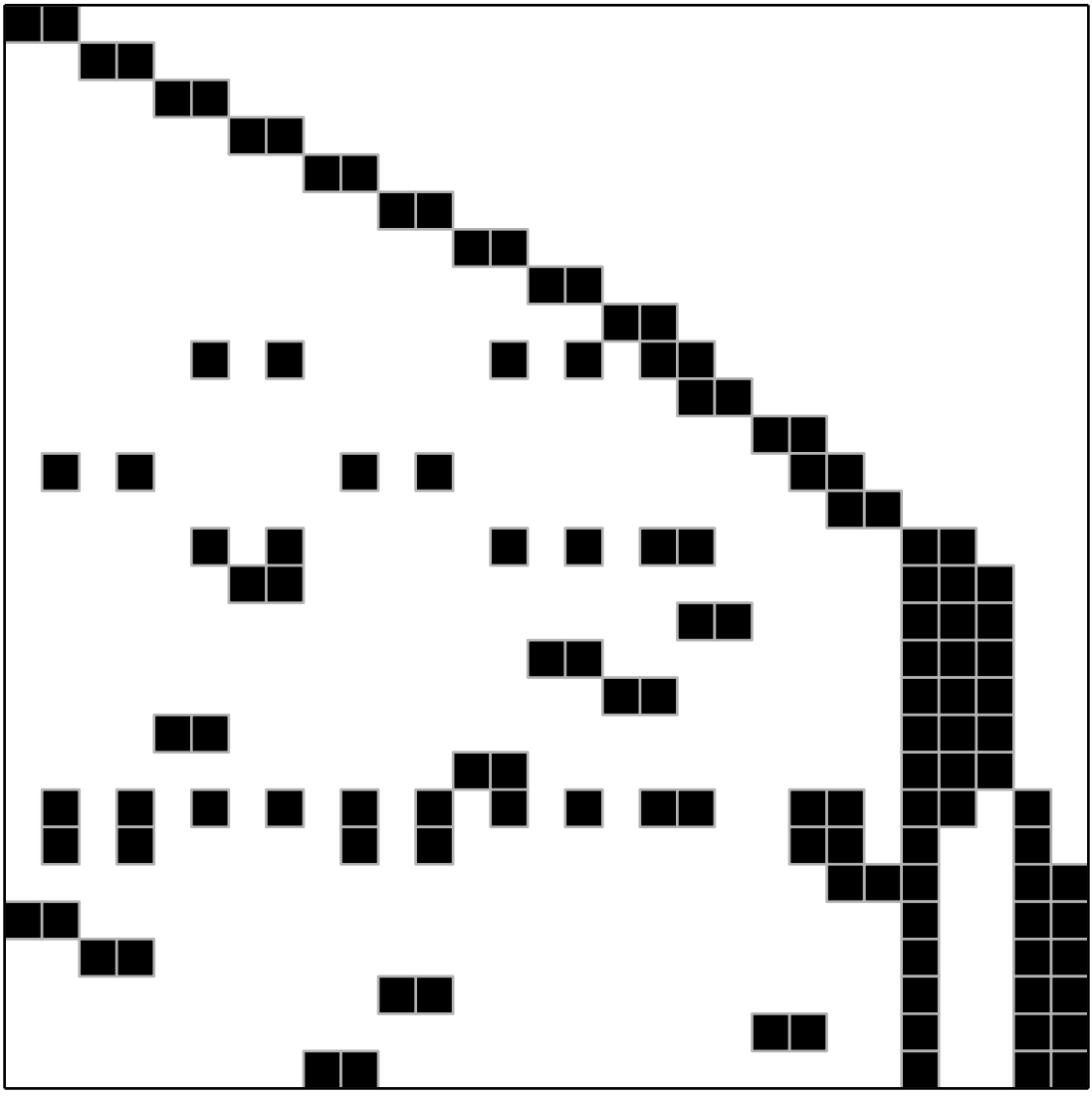
lib1_ex8_4_4-01 29x29 (127) con: 12, var: 17

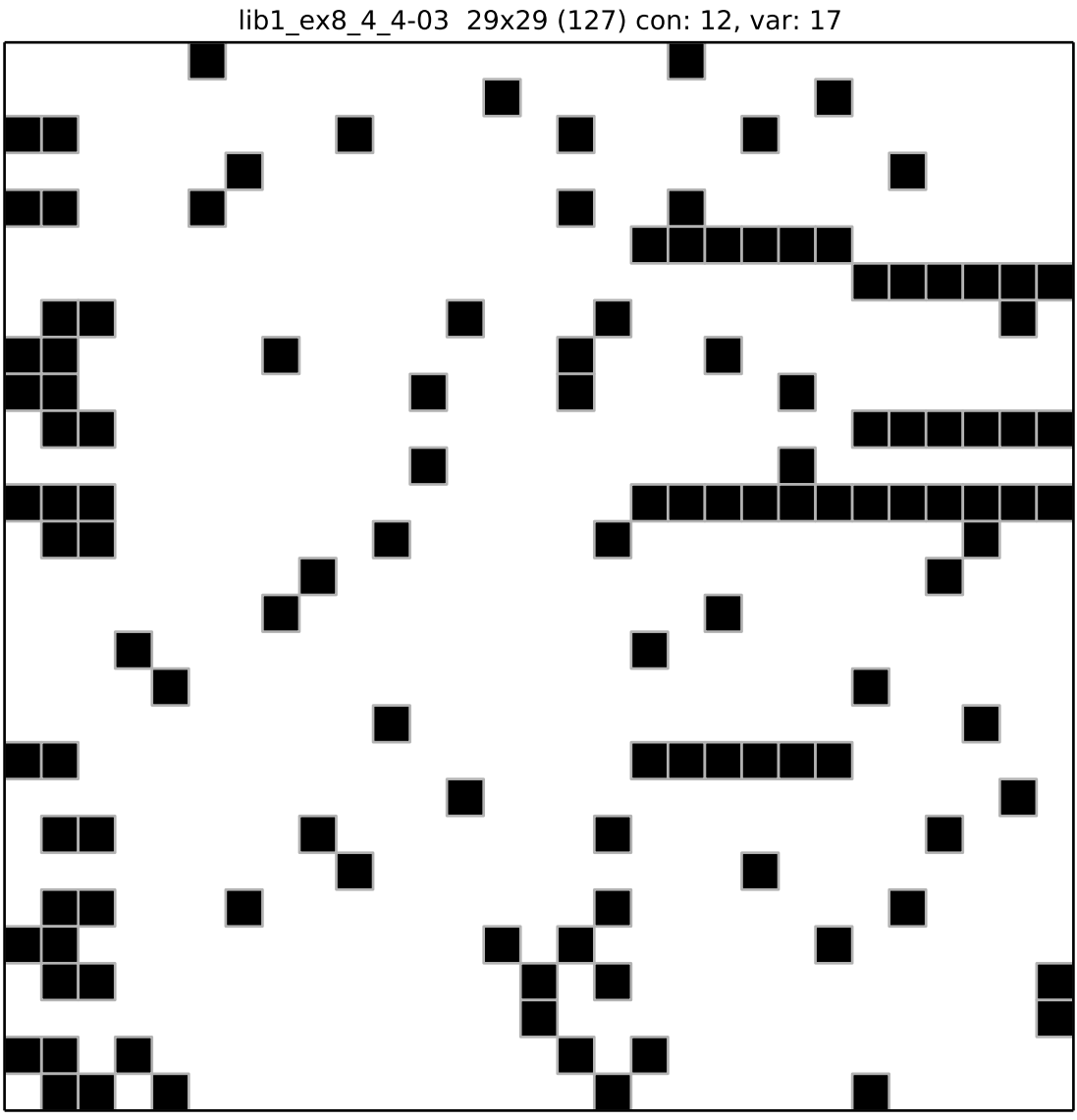


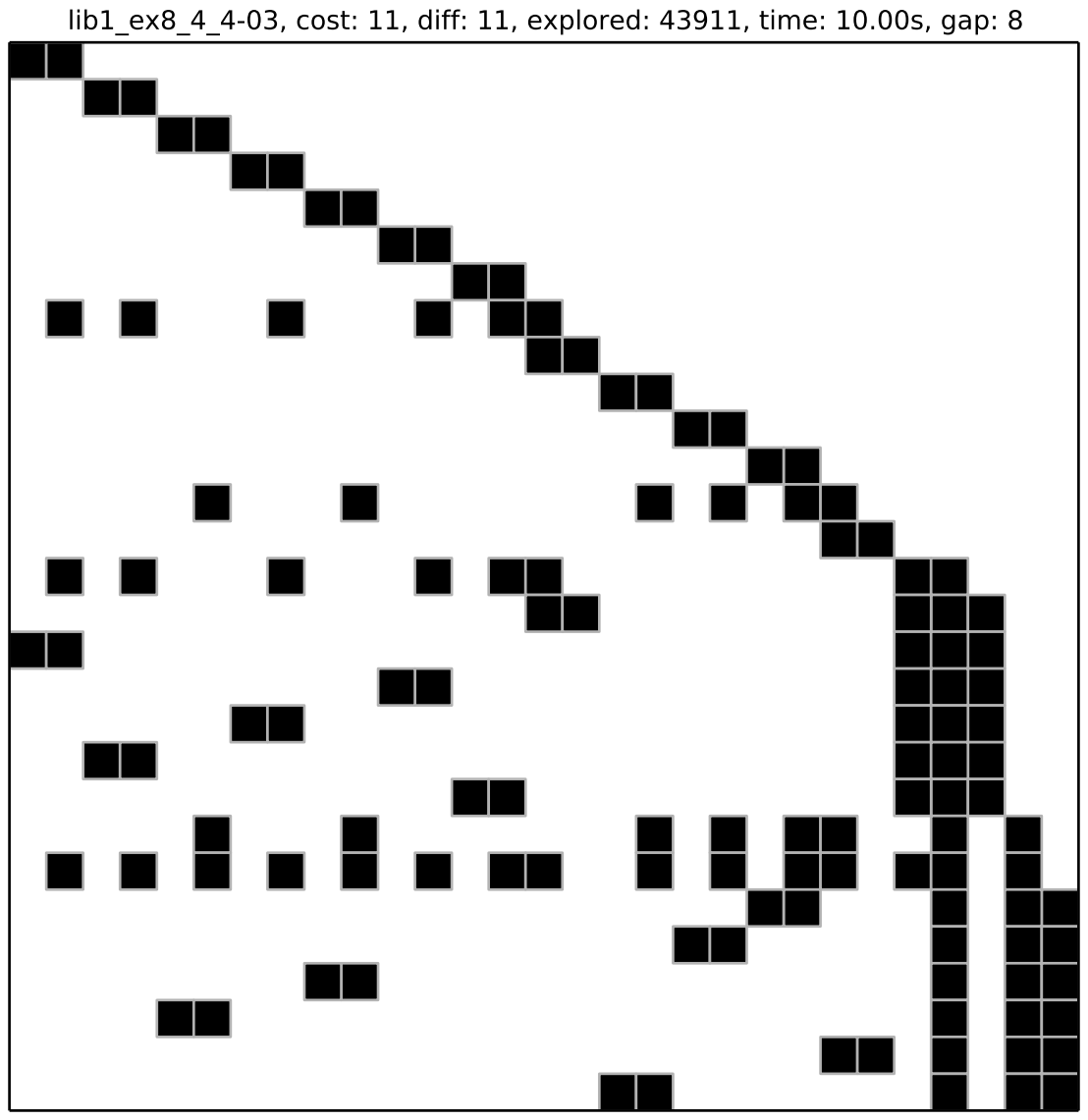

lib1_ex8_4_4-01, cost: 11, diff: 11, explored: 43910, time: 10.00s, gap: 8

lib1_ex8_4_4-02 29x29 (127) con: 12, var: 17

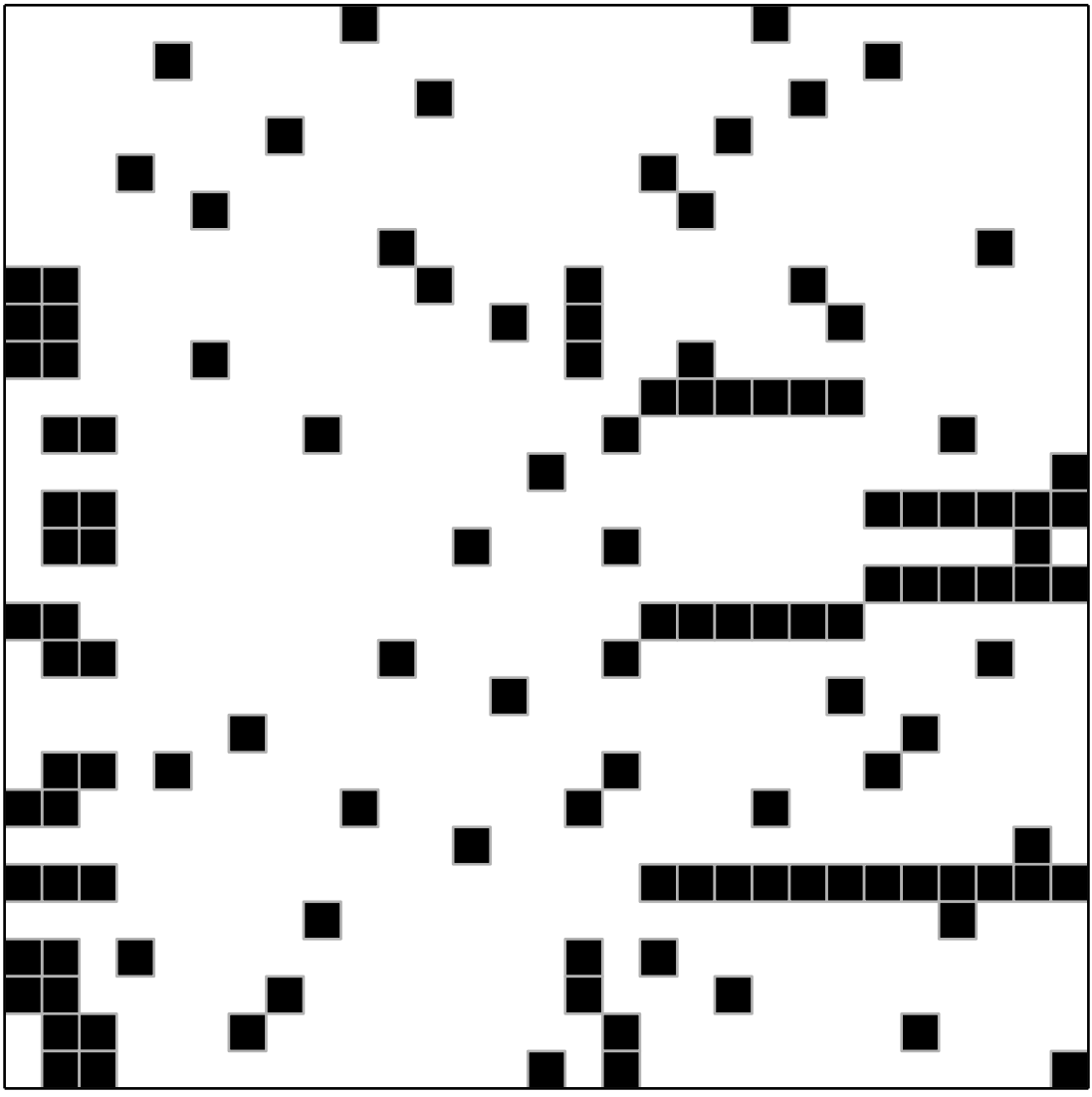


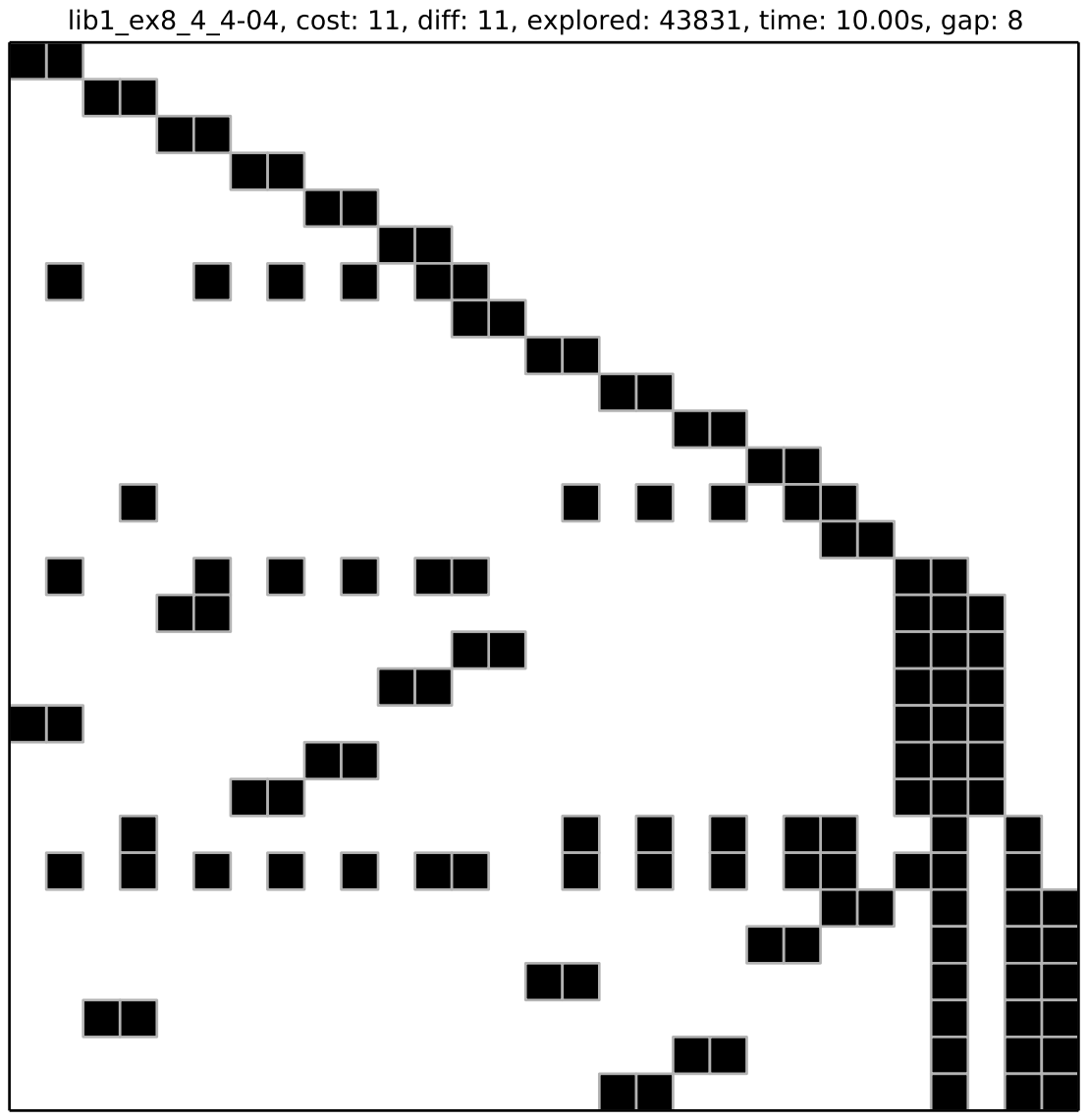

lib1_ex8_4_4-02, cost: 11, diff: 11, explored: 43907, time: 10.00s, gap: 8


lib1_ex8_4_4-03 29x29 (127) con: 12, var: 17

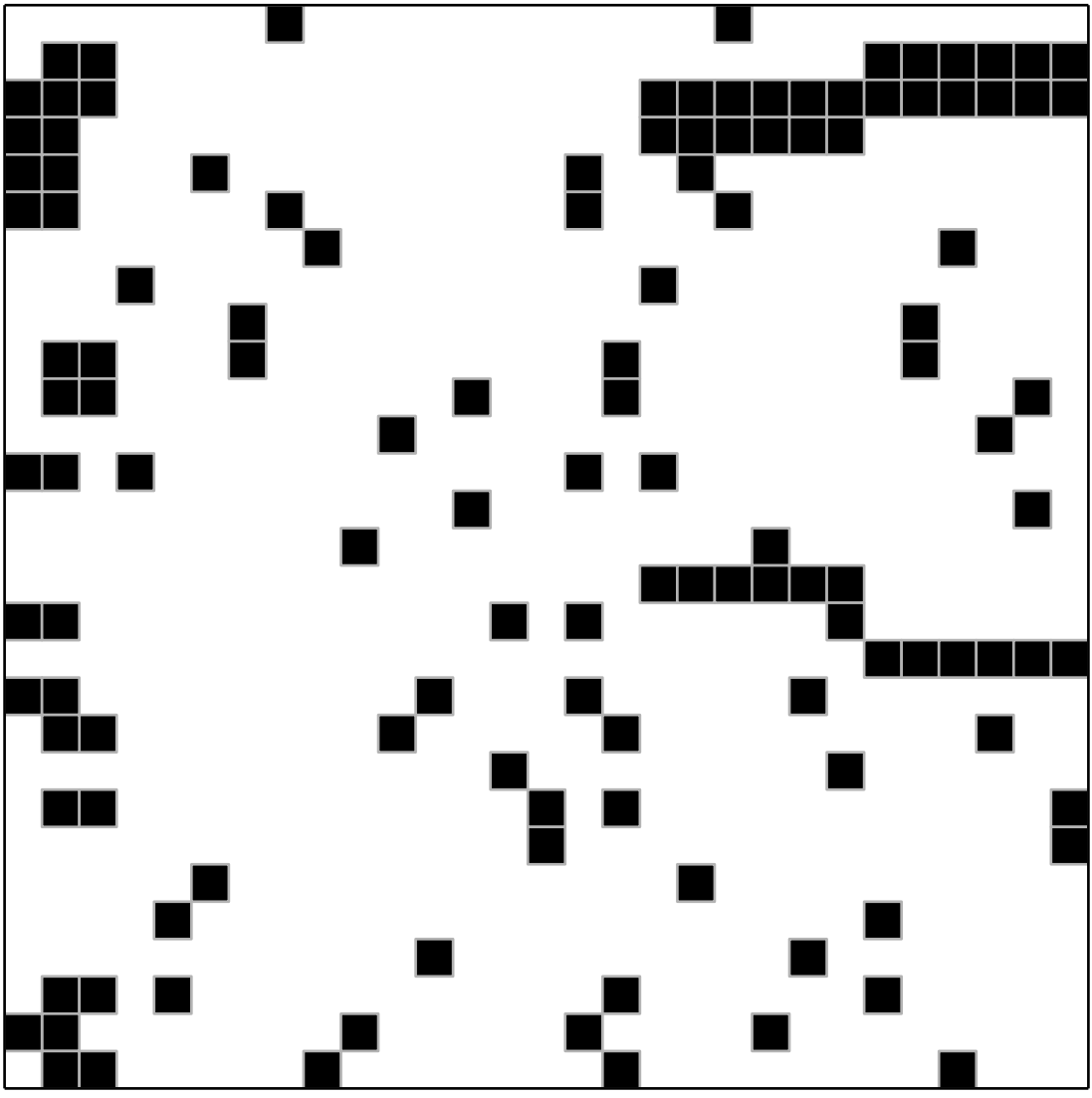

lib1_ex8_4_4-03, cost: 11, diff: 11, explored: 43911, time: 10.00s, gap: 8

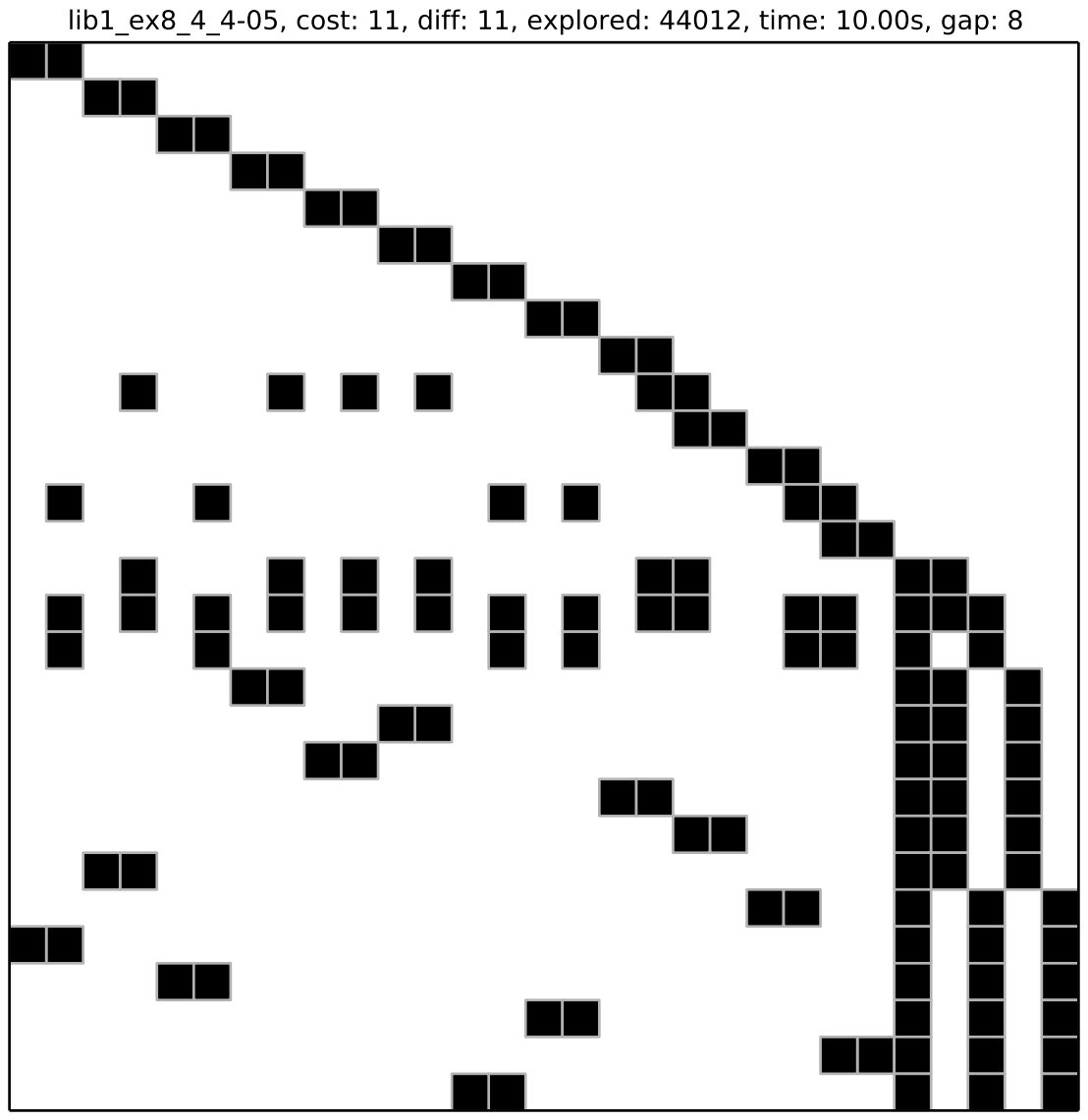
lib1_ex8_4_4-04 29x29 (127) con: 12, var: 17



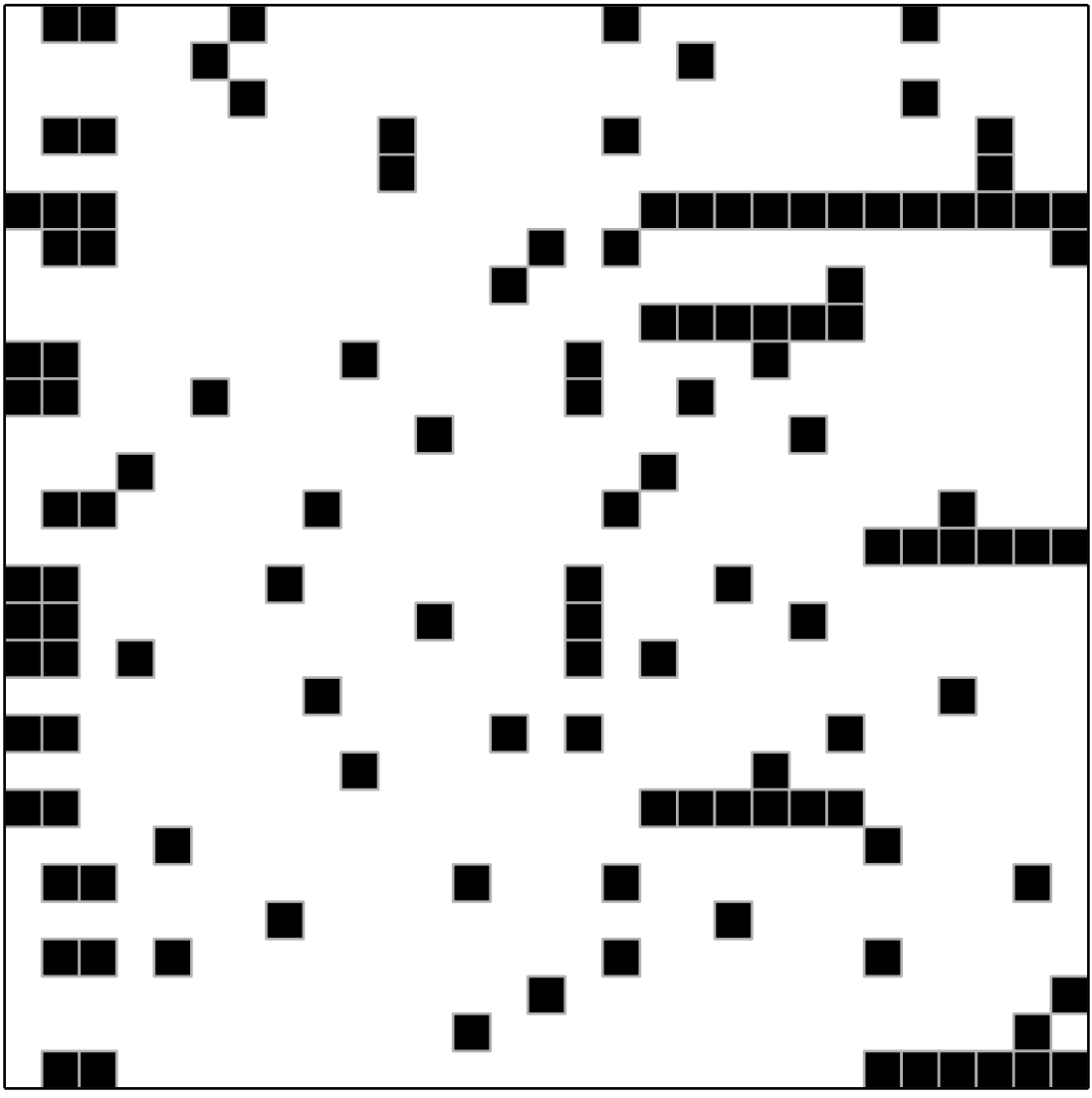

lib1_ex8_4_4-04, cost: 11, diff: 11, explored: 43831, time: 10.00s, gap: 8

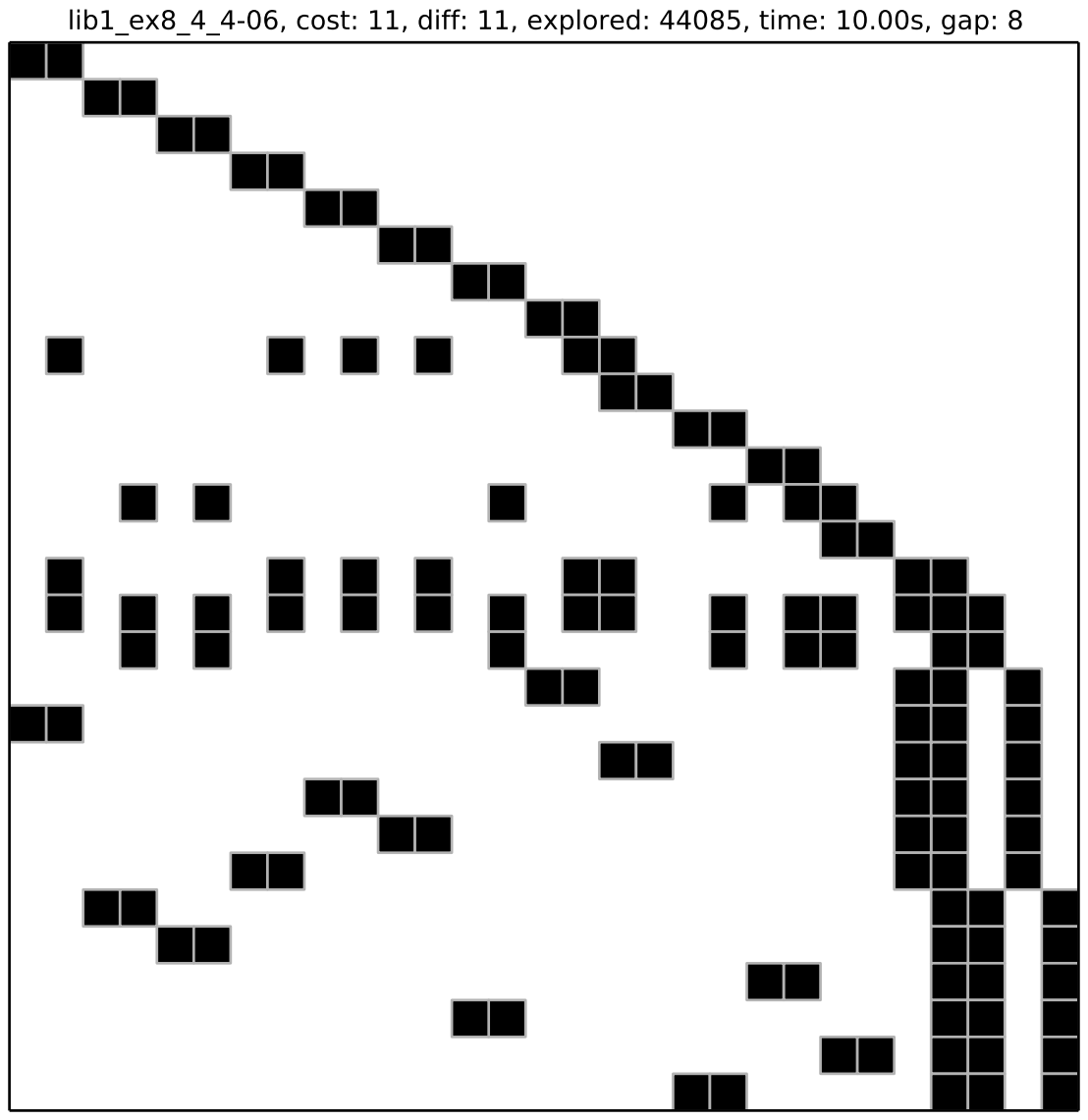
lib1_ex8_4_4-05 29x29 (127) con: 12, var: 17



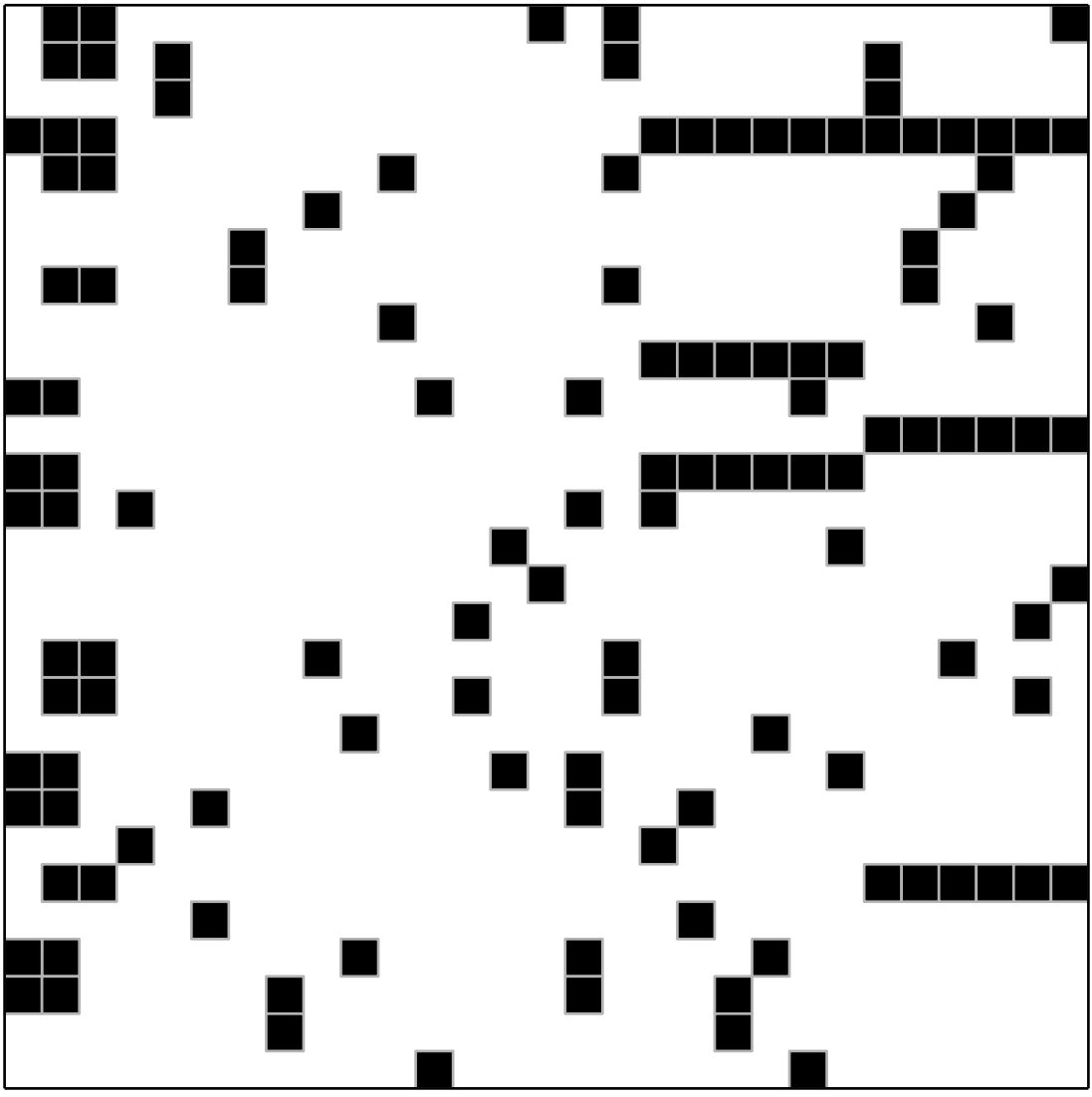

lib1_ex8_4_4-05, cost: 11, diff: 11, explored: 44012, time: 10.00s, gap: 8

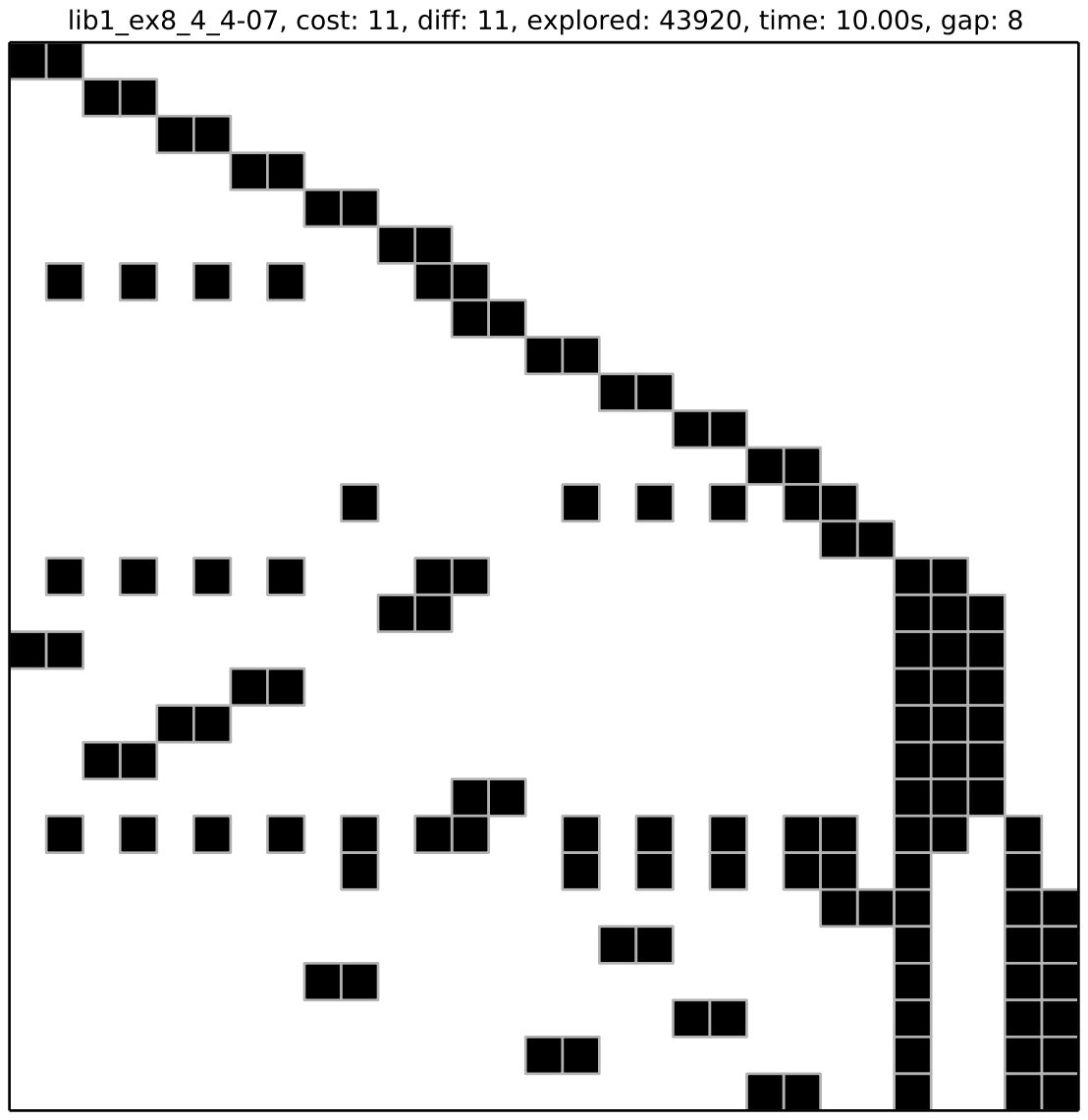
lib1_ex8_4_4-06 29x29 (127) con: 12, var: 17




lib1_ex8_4_4-06, cost: 11, diff: 11, explored: 44085, time: 10.00s, gap: 8

lib1_ex8_4_4-07 29x29 (127) con: 12, var: 17

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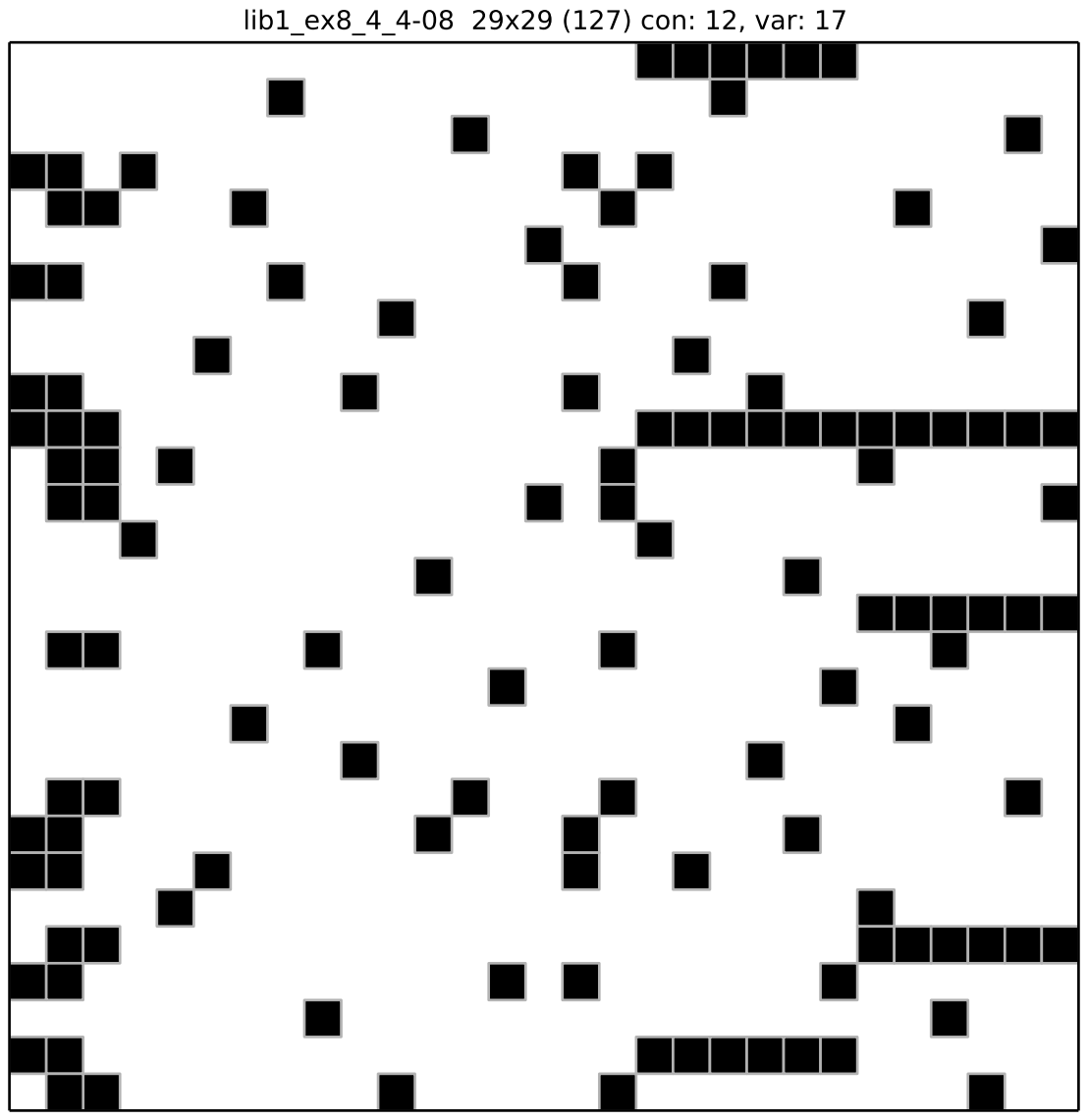
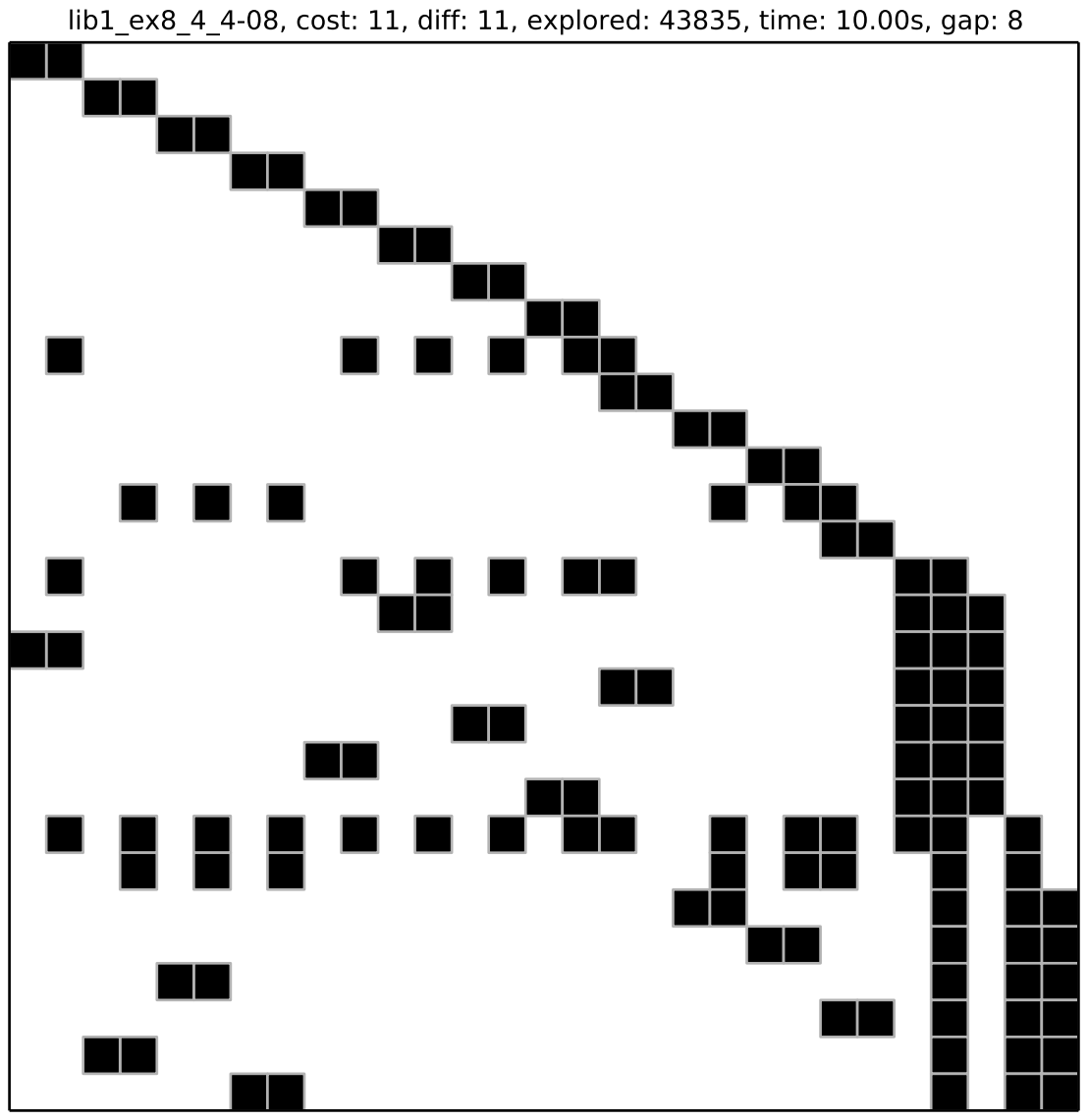
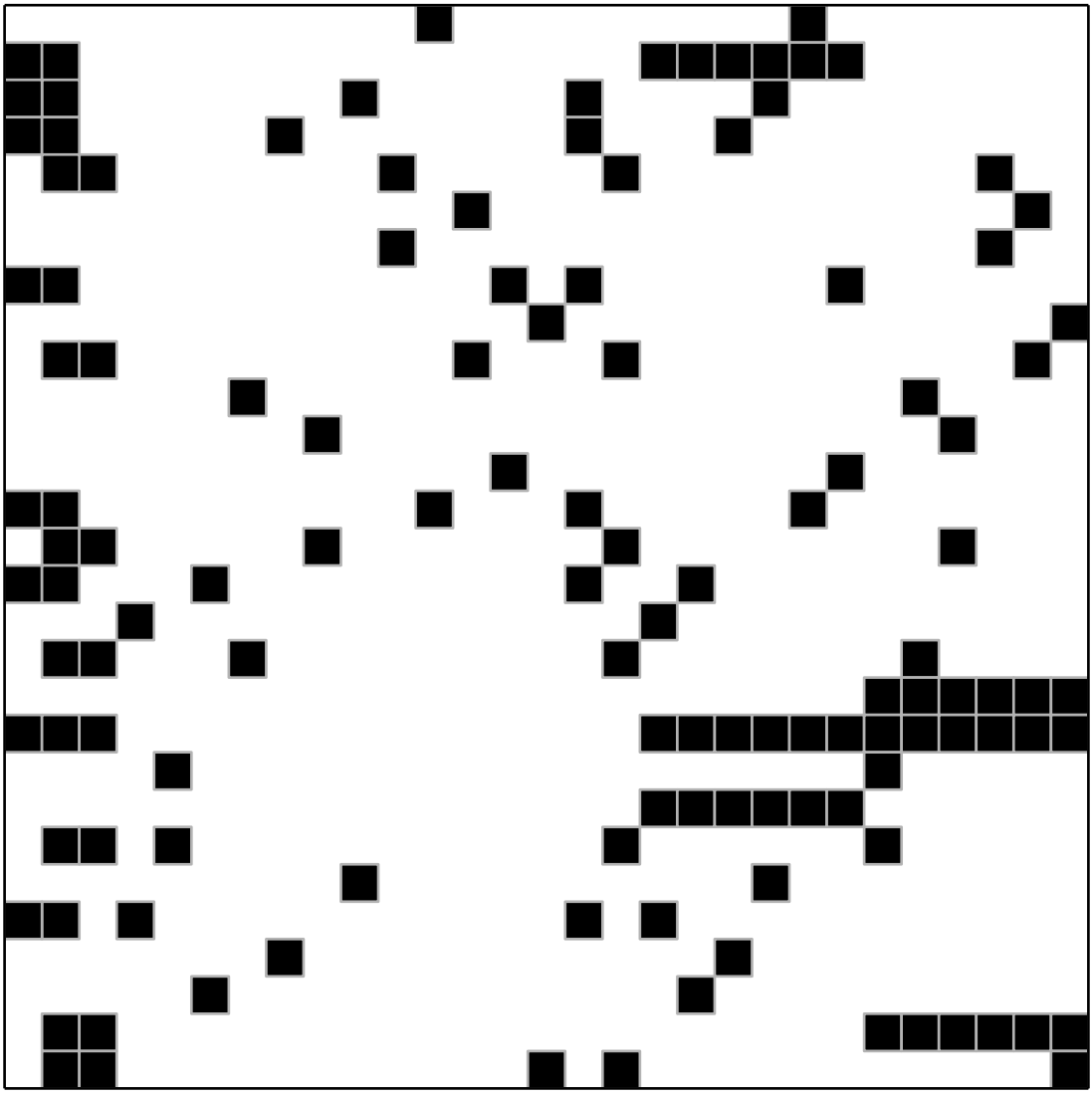
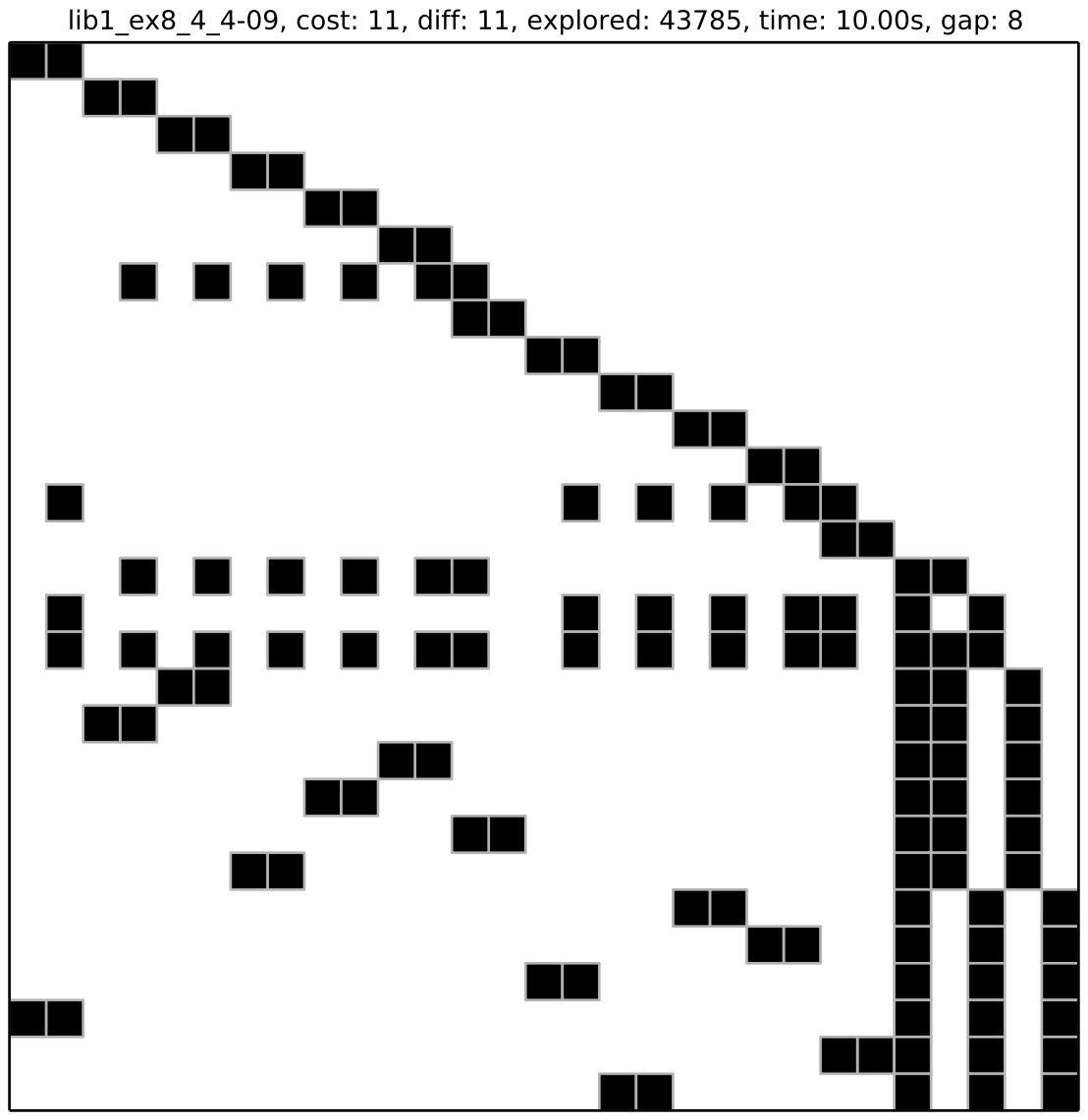

lib1_ex8_4_4-08 29x29 (127) con: 12, var: 17

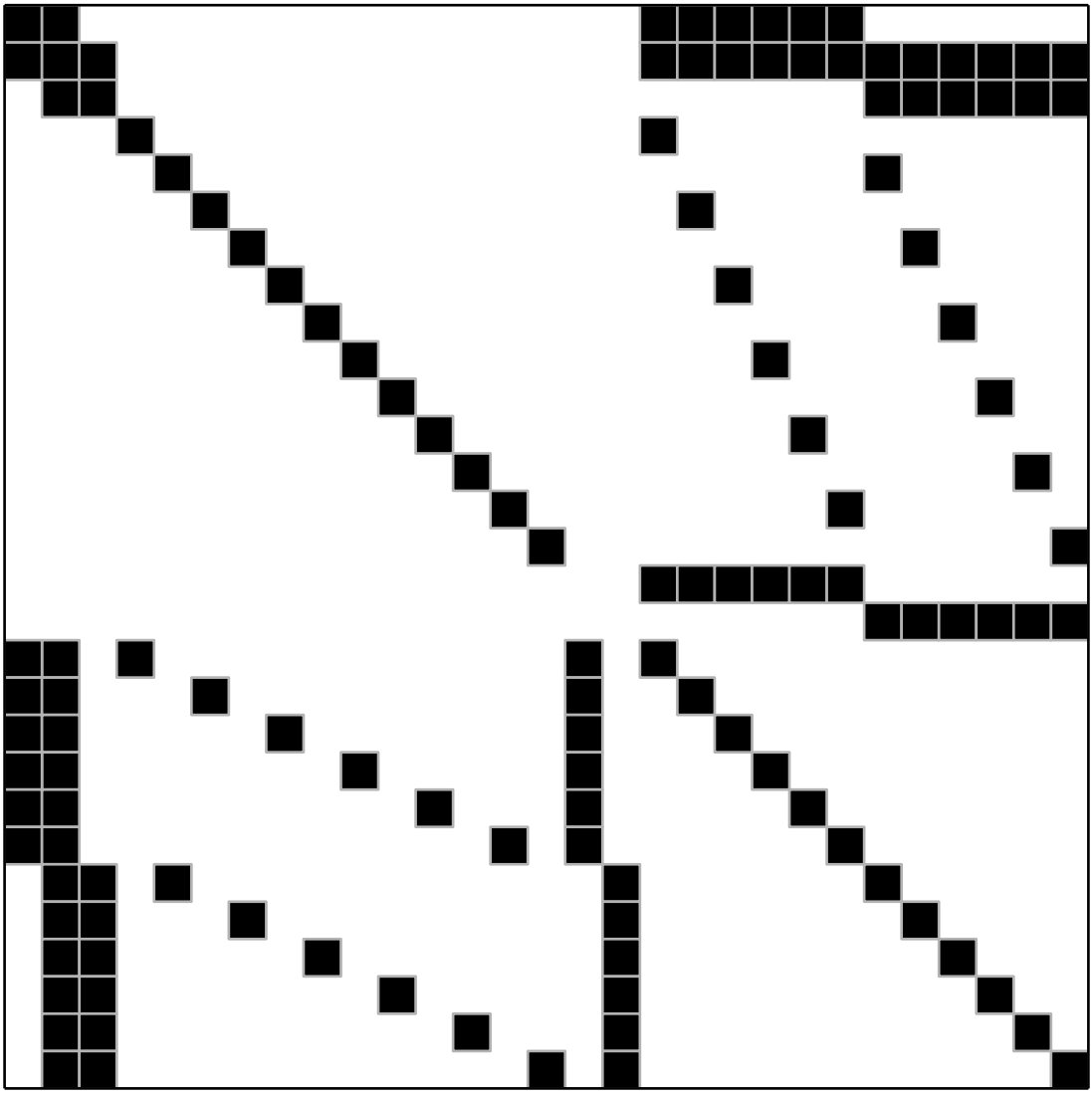

lib1_ex8_4_4-08, cost: 11, diff: 11, explored: 43835, time: 10.00s, gap: 8

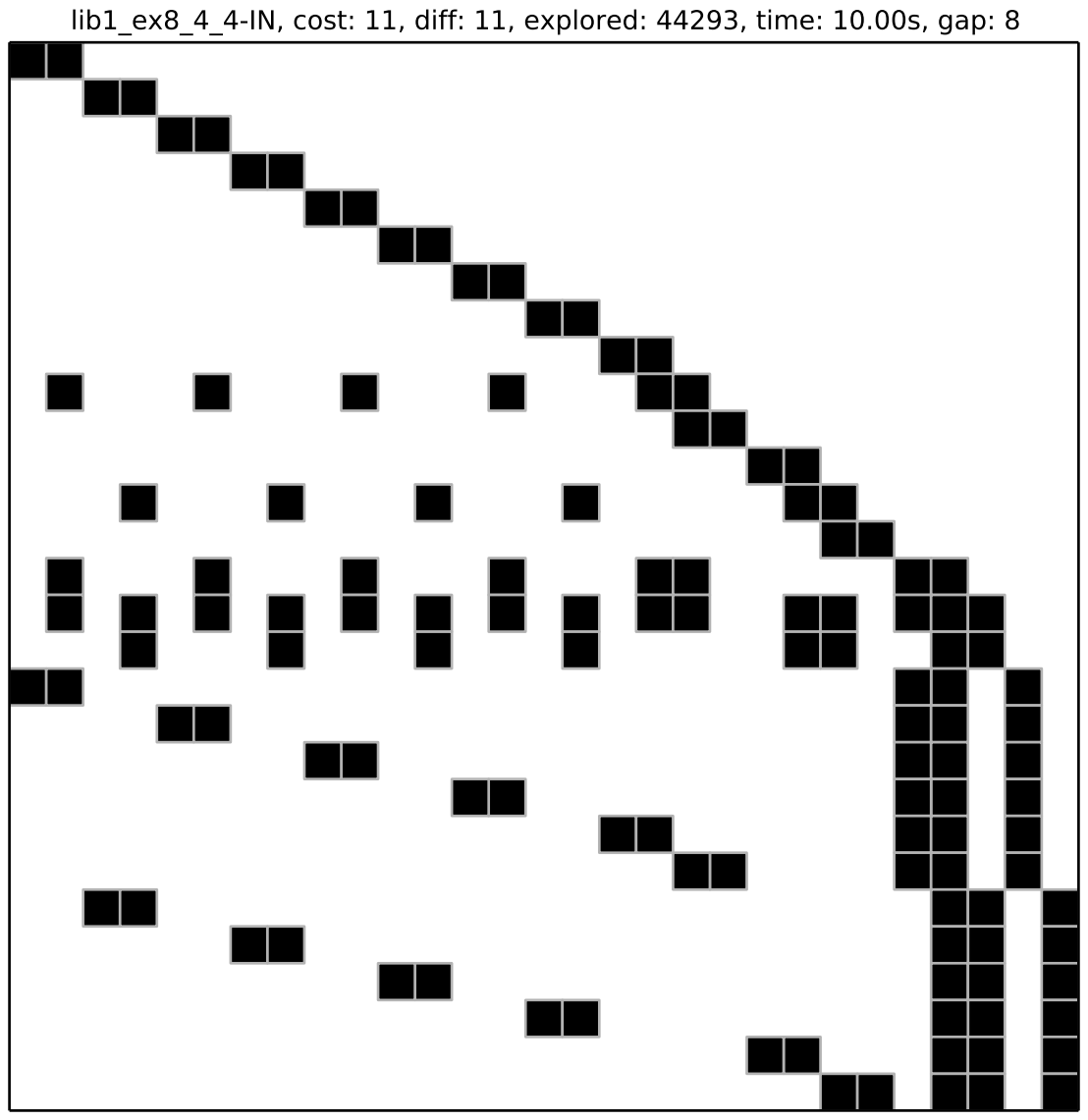
lib1_ex8_4_4-09 29x29 (127) con: 12, var: 17



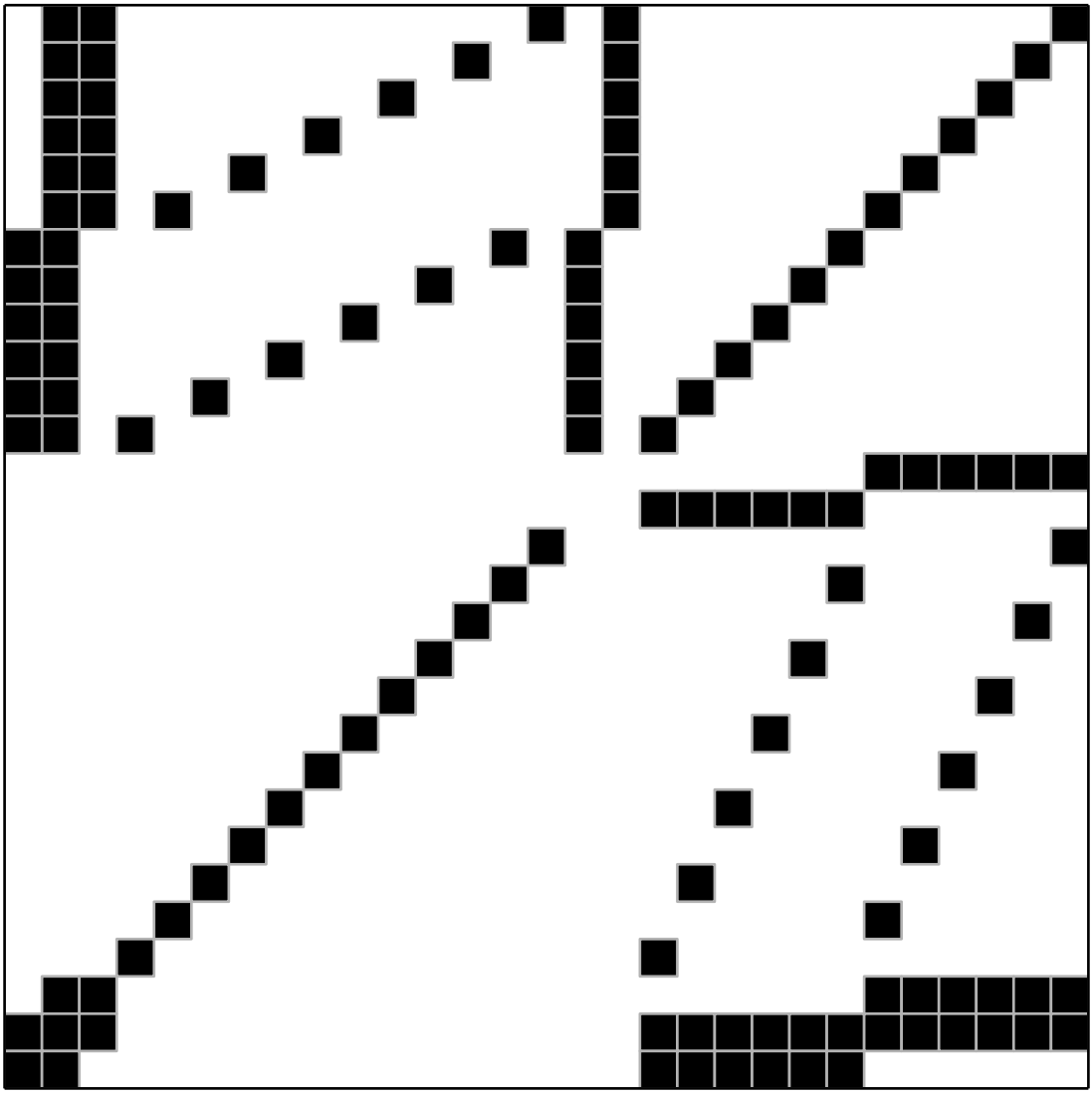

lib1_ex8_4_4-09, cost: 11, diff: 11, explored: 43785, time: 10.00s, gap: 8

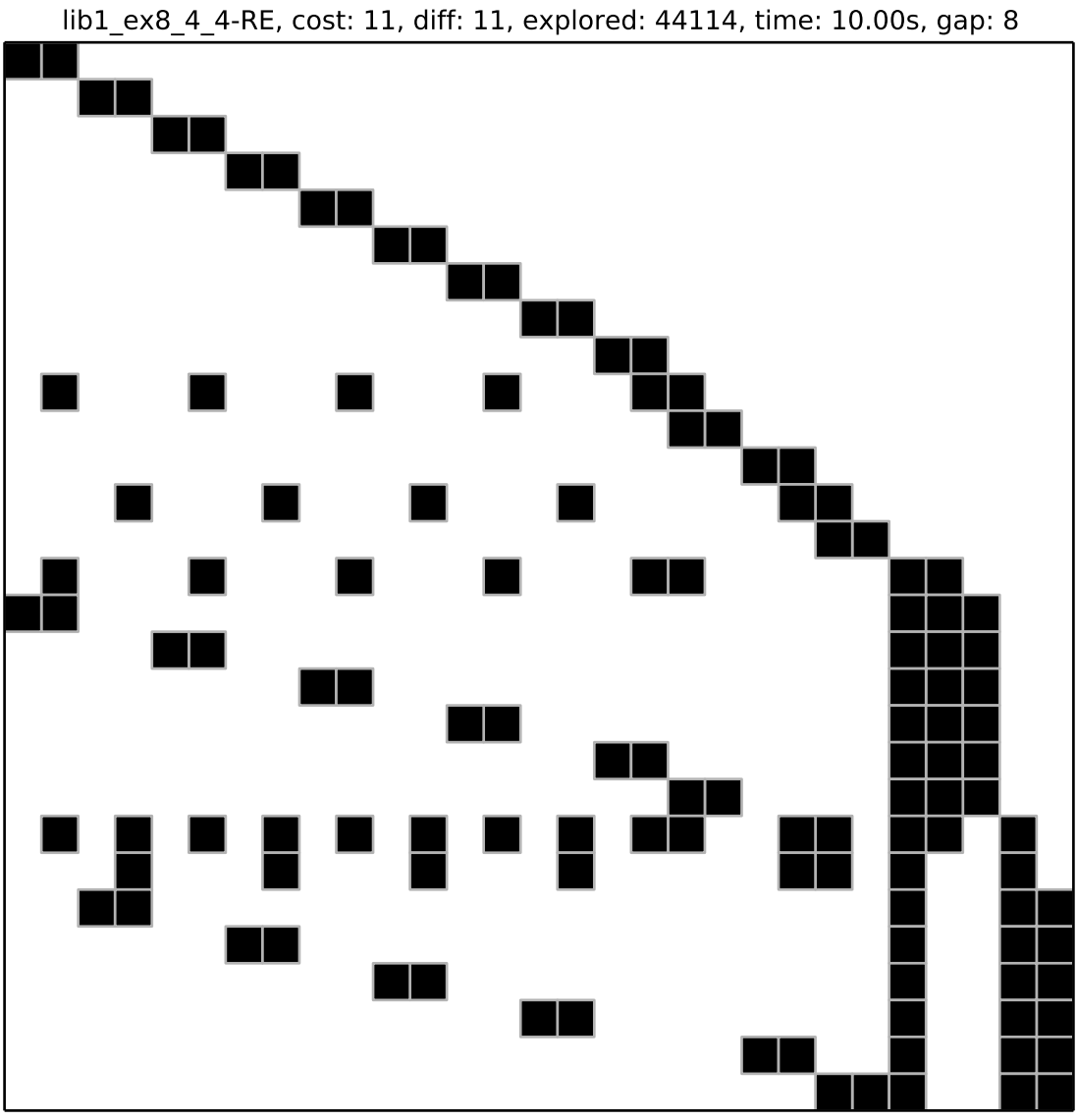
lib1_ex8_4_4-IN 29x29 (127) con: 12, var: 17




lib1_ex8_4_4-IN, cost: 11, diff: 11, explored: 44293, time: 10.00s, gap: 8

lib1_ex8_4_4-RE 29x29 (127) con: 12, var: 17

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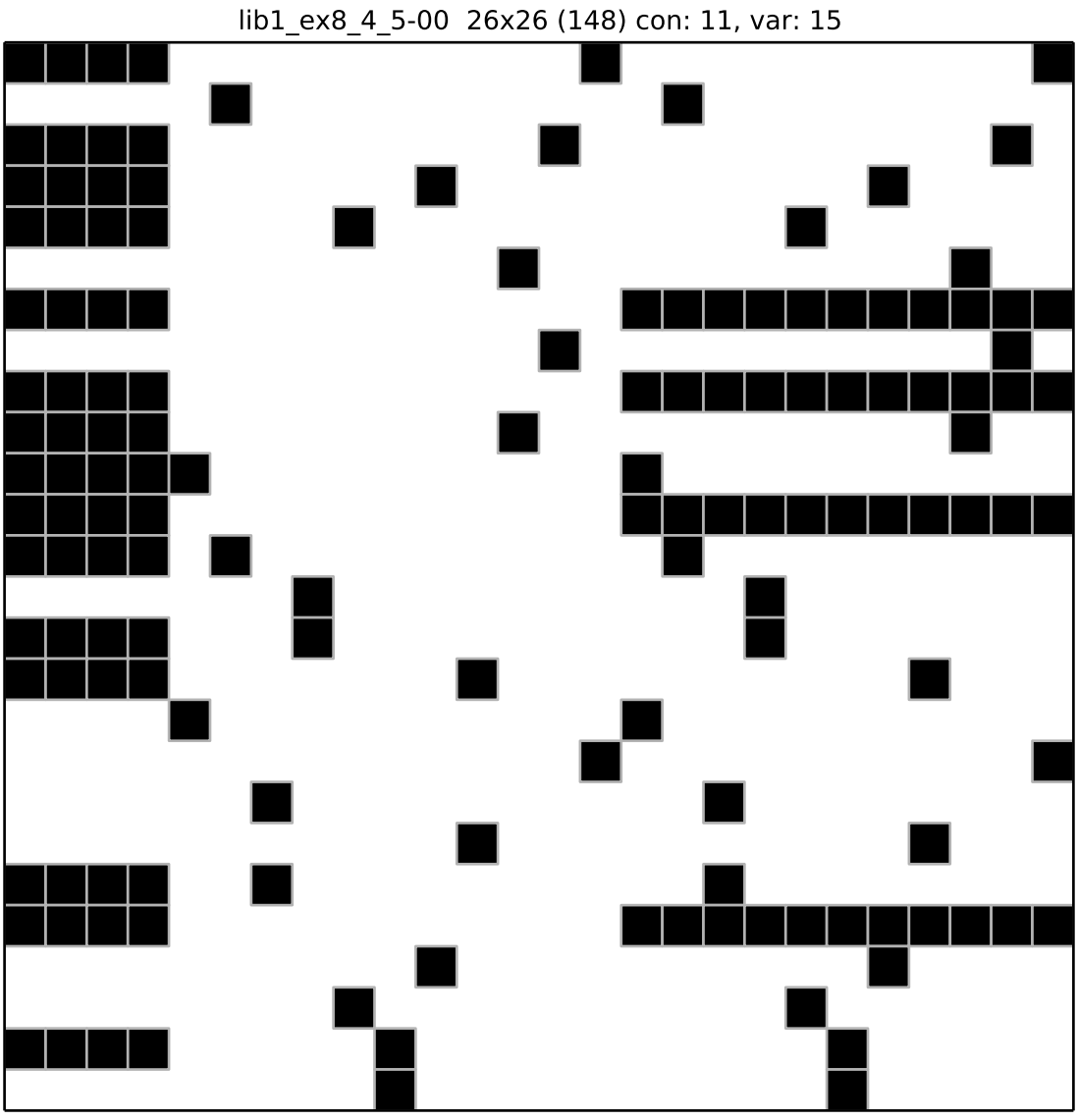
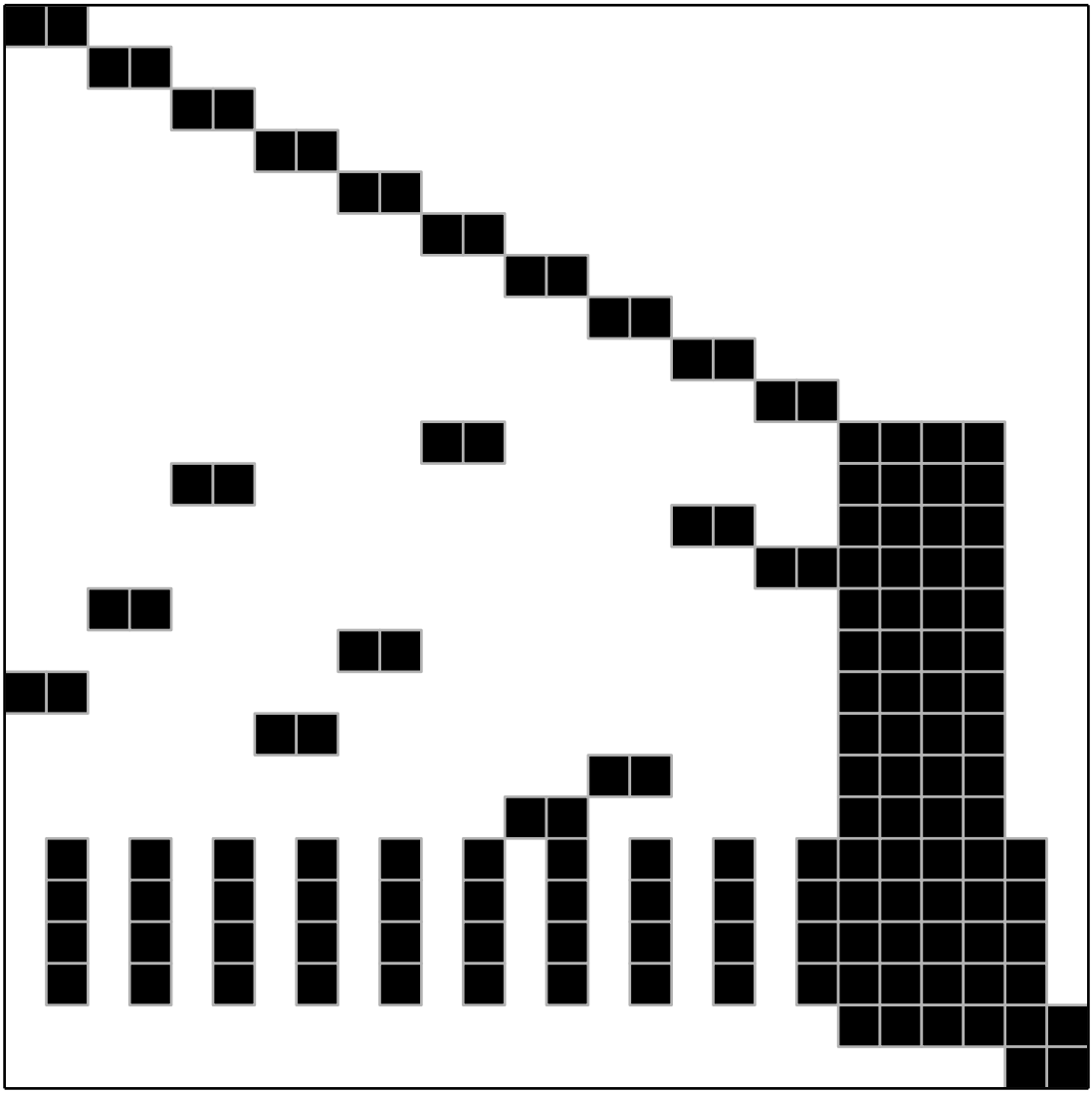
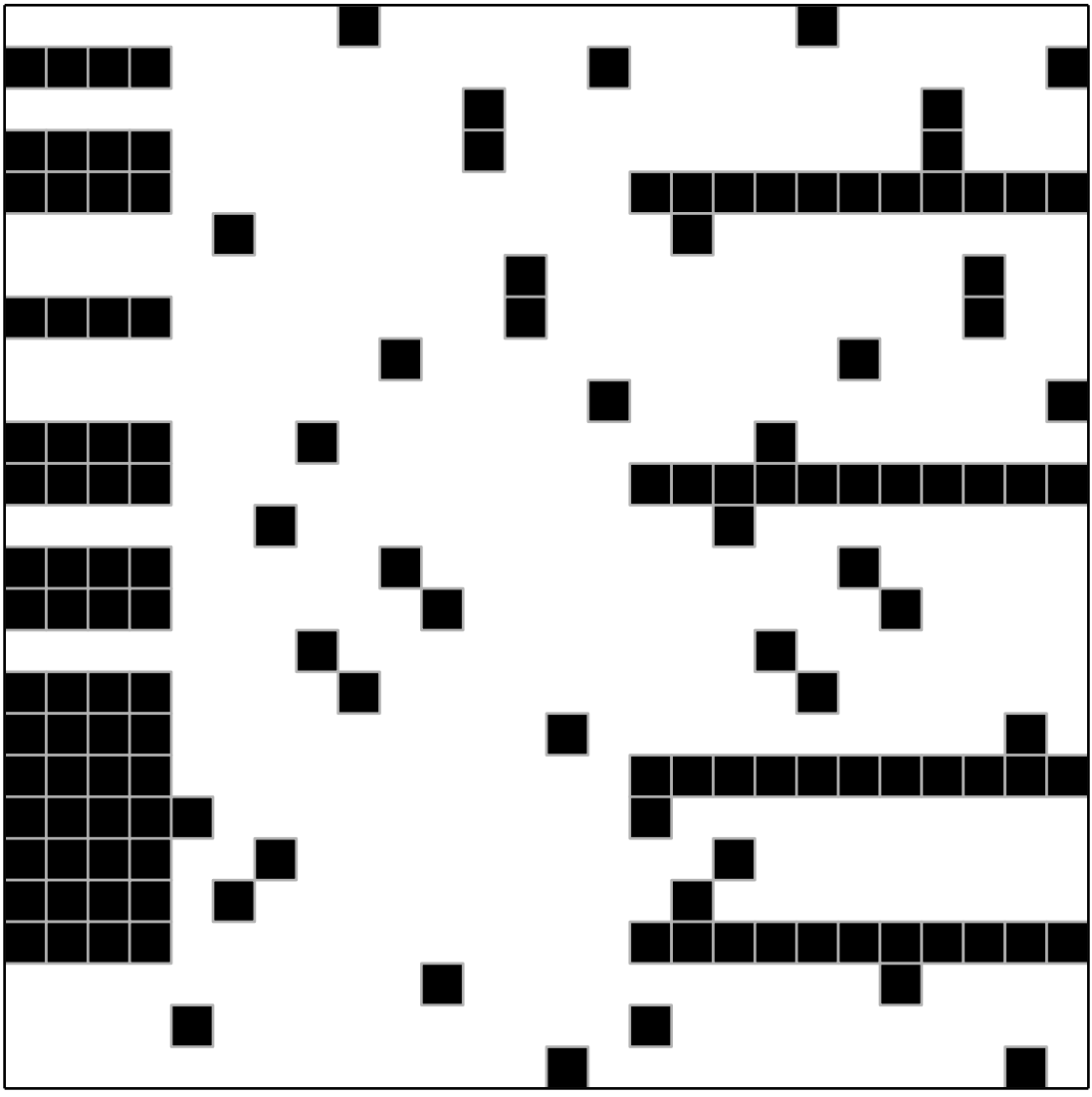

lib1_ex8_4_5-00 26x26 (148) con: 11, var: 15

lib1_ex8_4_5-00, cost: 13, diff: 13, explored: 24432, time: 5.29s



lib1_ex8_4_5-01 26x26 (148) con: 11, var: 15



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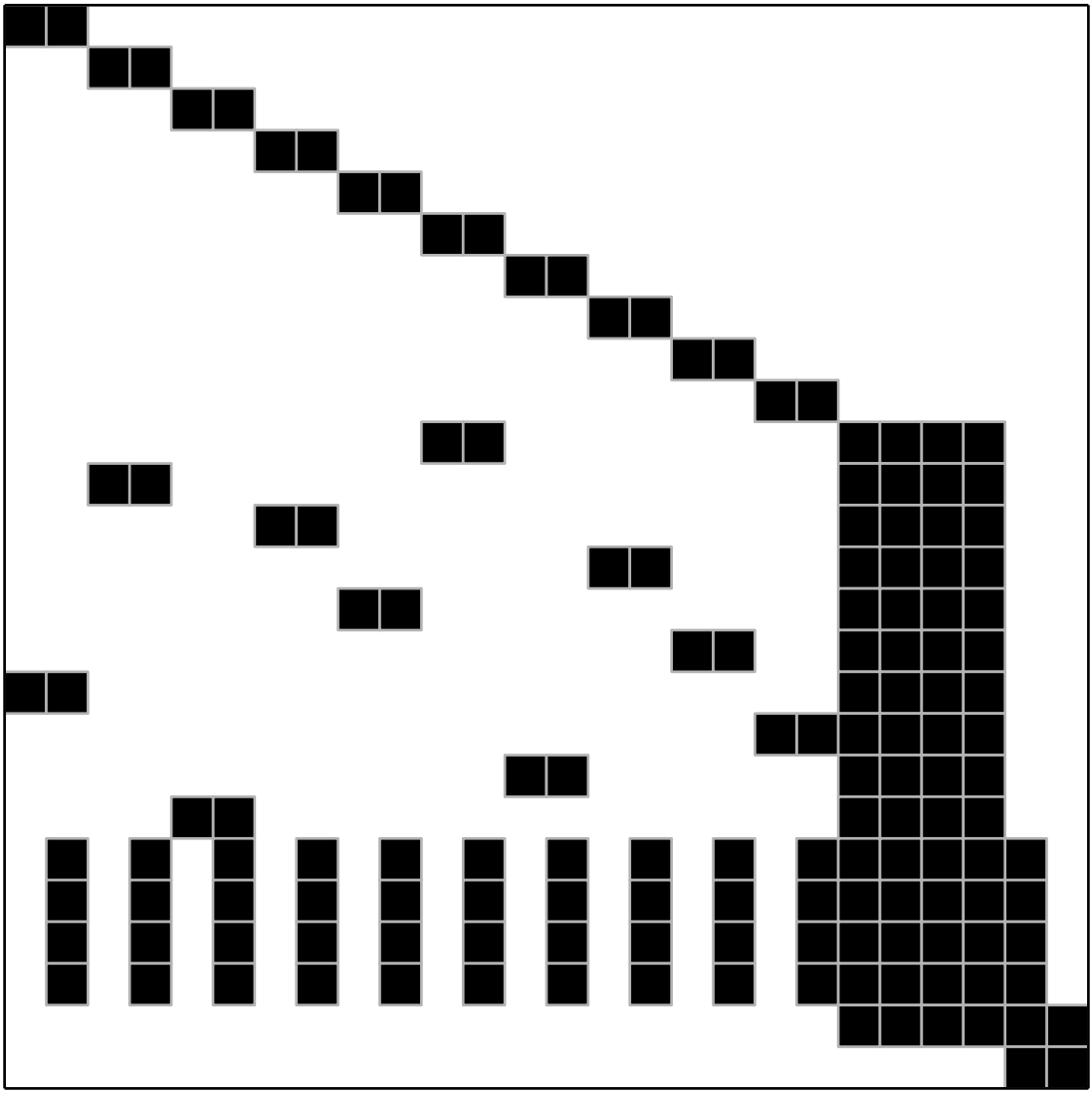
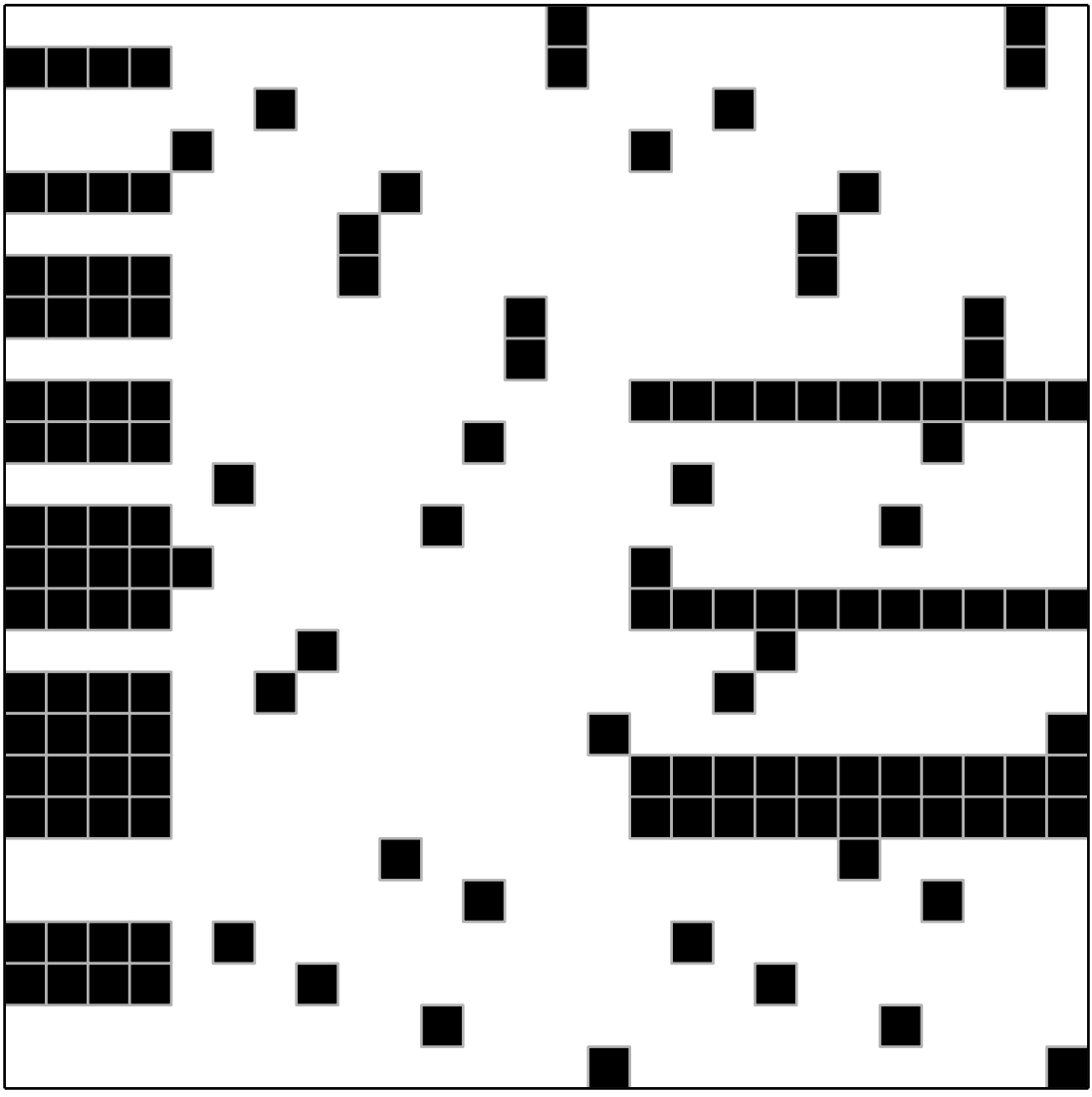
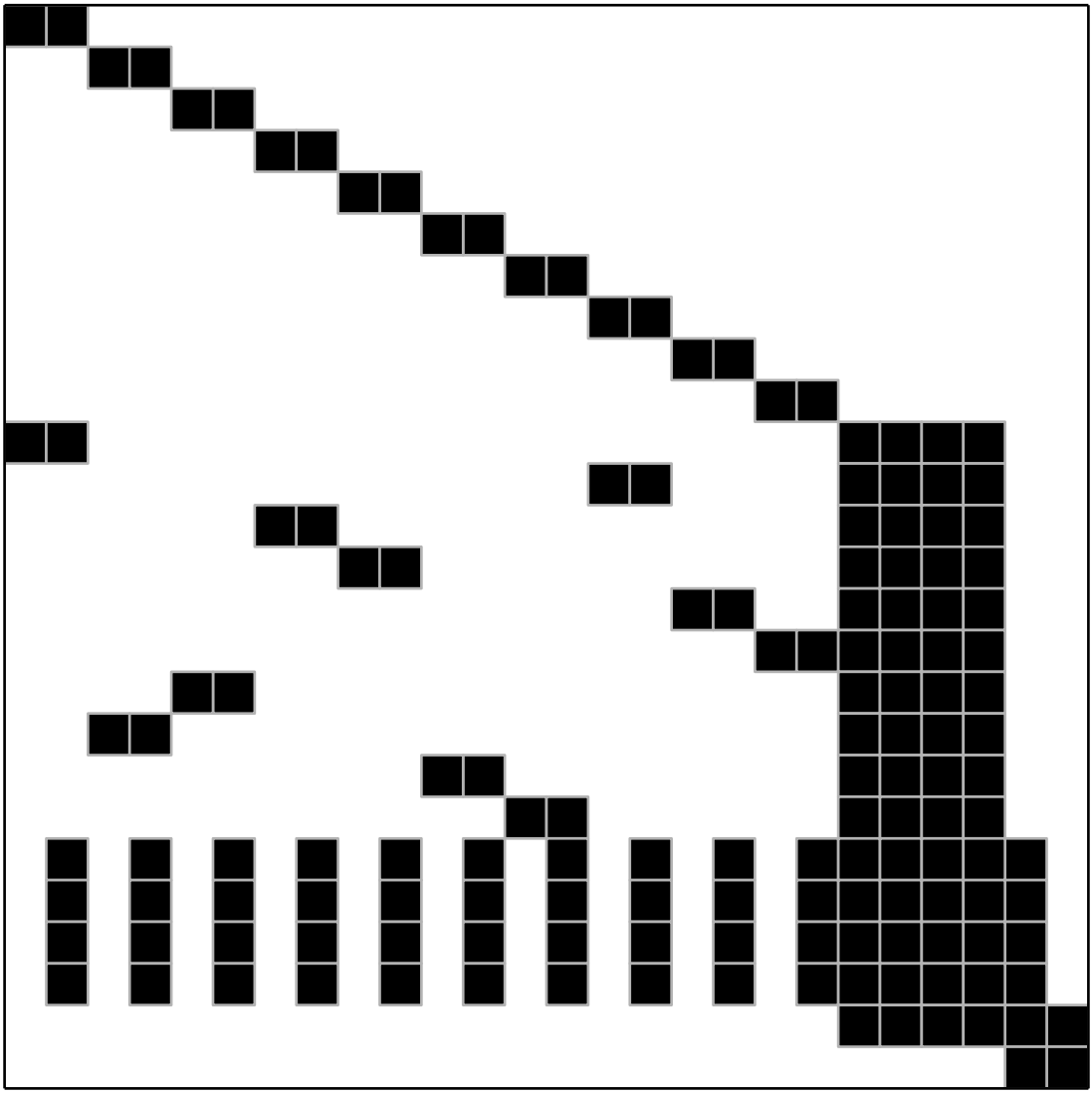


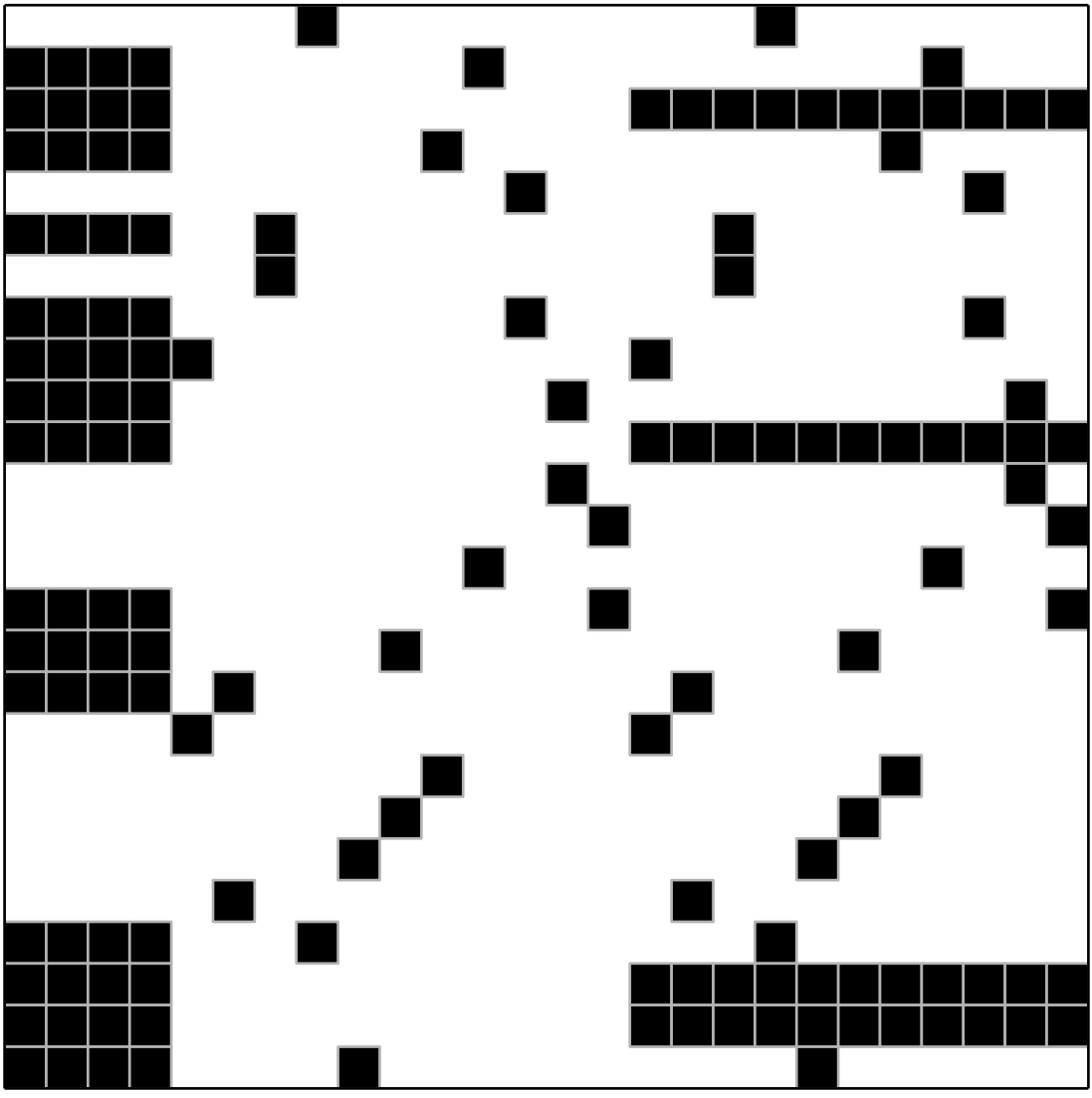
lib1_ex8_4_5-02 26x26 (148) con: 11, var: 15



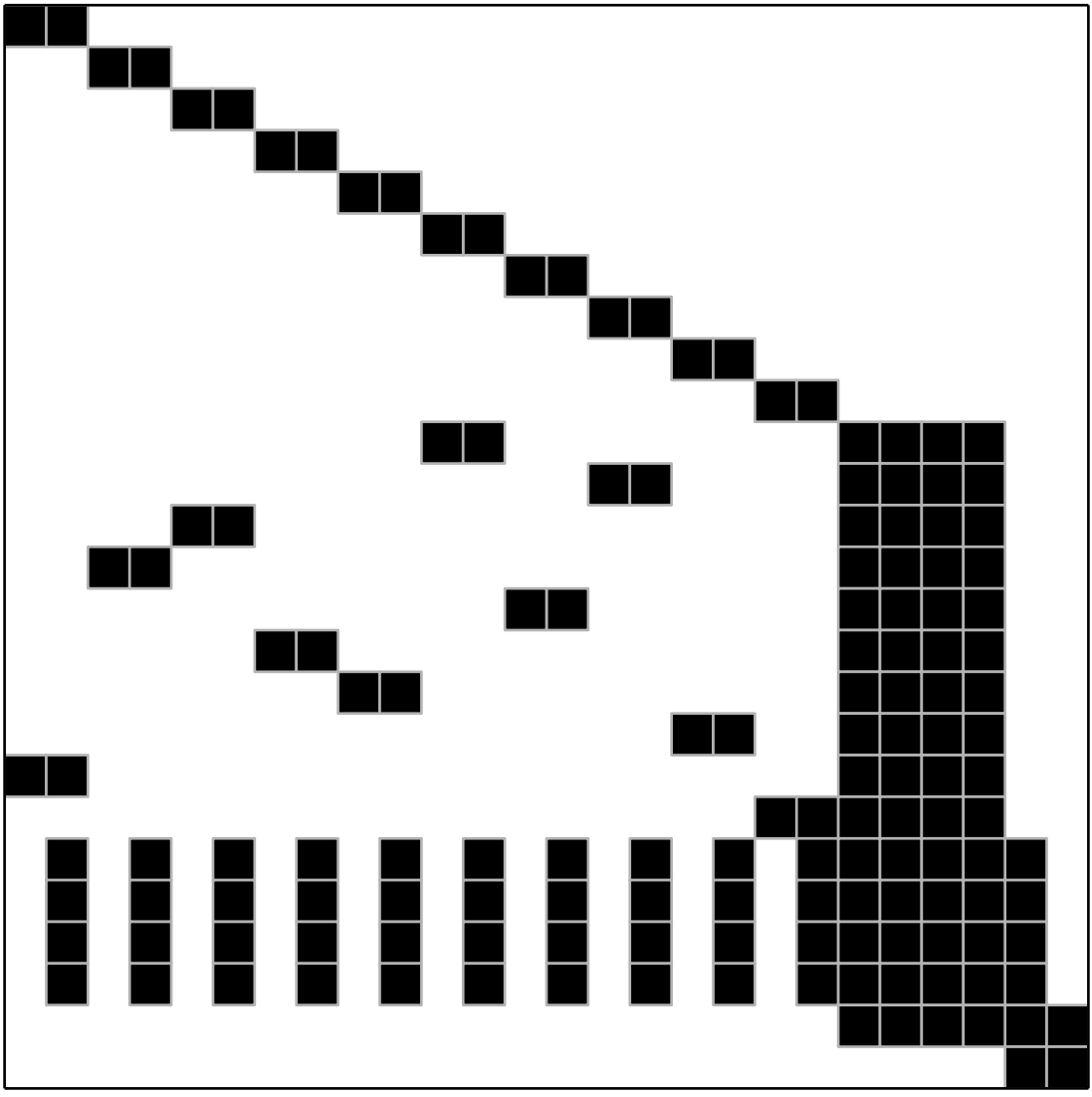
lib1_ex8_4_5-02, cost: 13, diff: 13, explored: 24432, time: 5.28s



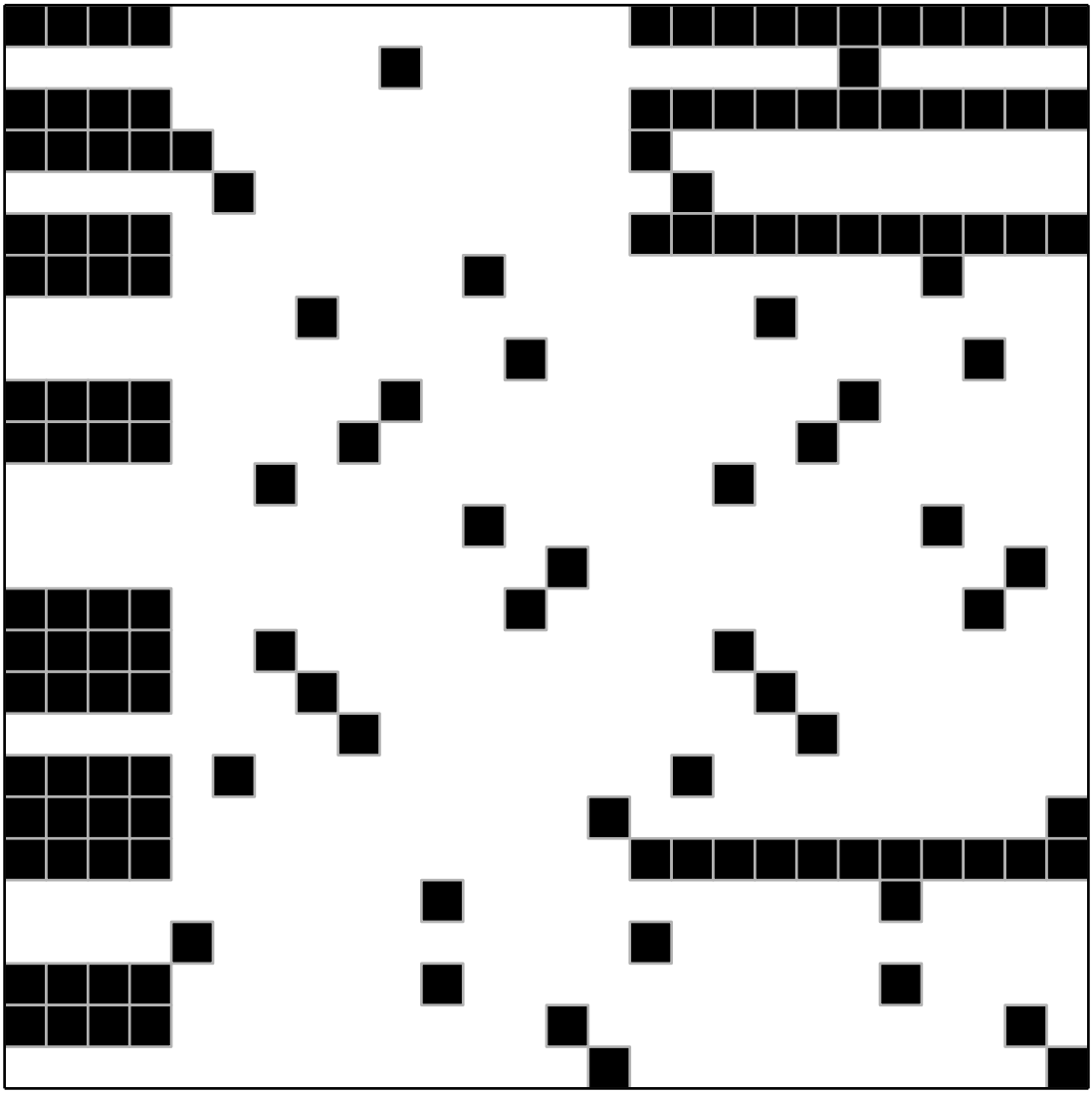
lib1_ex8_4_5-03 26x26 (148) con: 11, var: 15



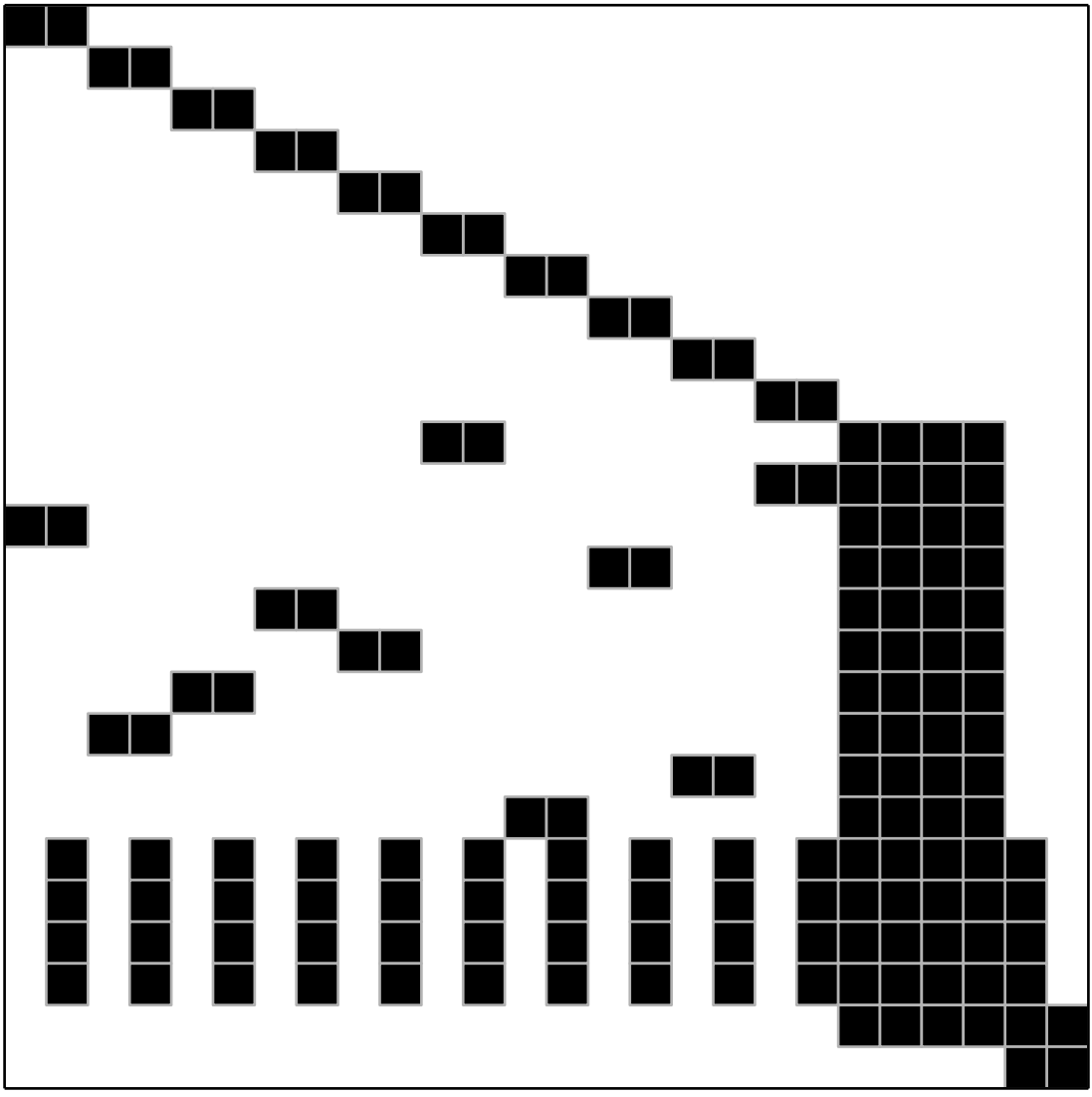
lib1_ex8_4_5-03, cost: 13, diff: 13, explored: 24432, time: 5.26s



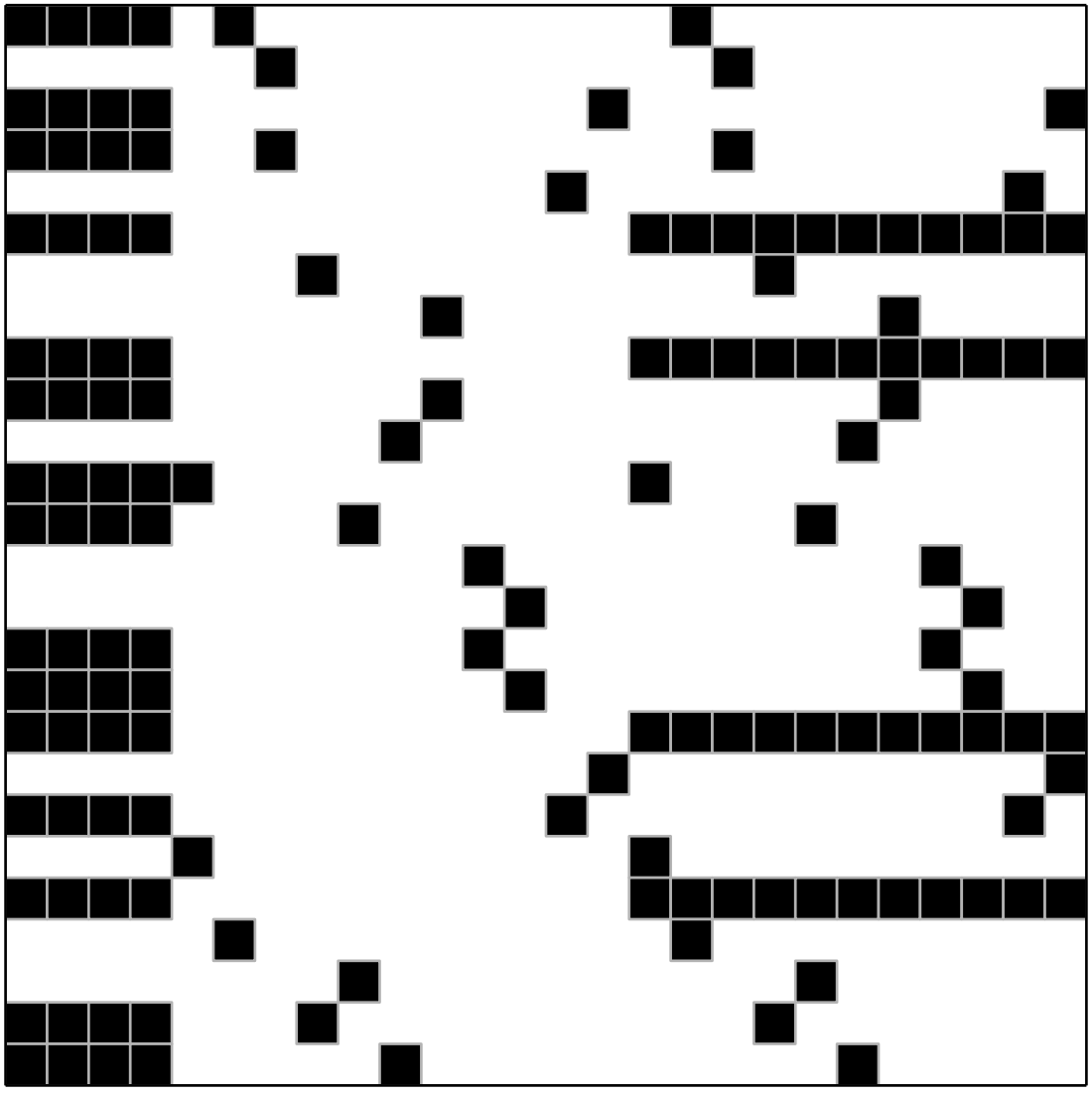
lib1_ex8_4_5-04 26x26 (148) con: 11, var: 15



lib1_ex8_4_5-04, cost: 13, diff: 13, explored: 24432, time: 5.22s



lib1_ex8_4_5-05 26x26 (148) con: 11, var: 15



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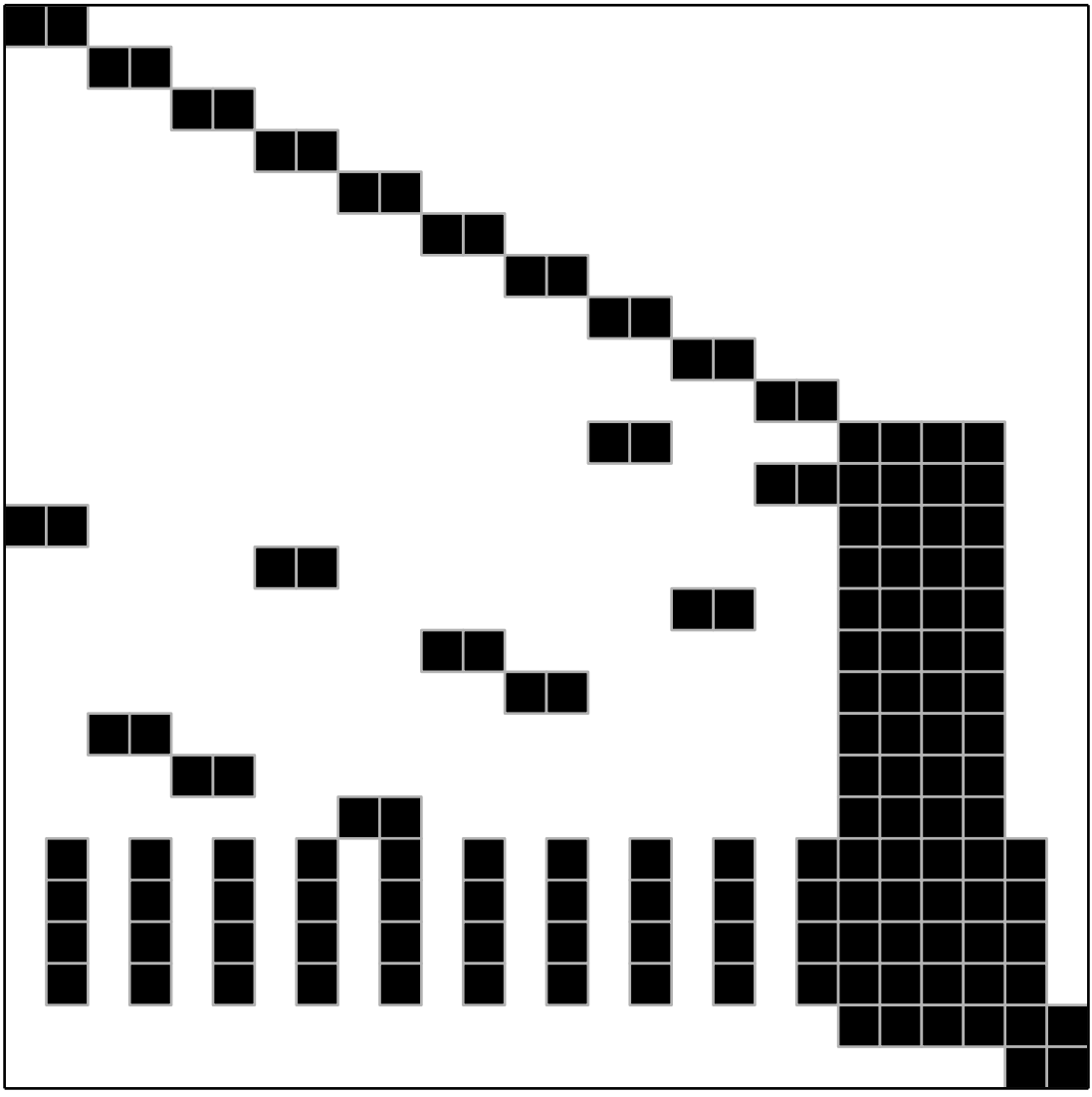
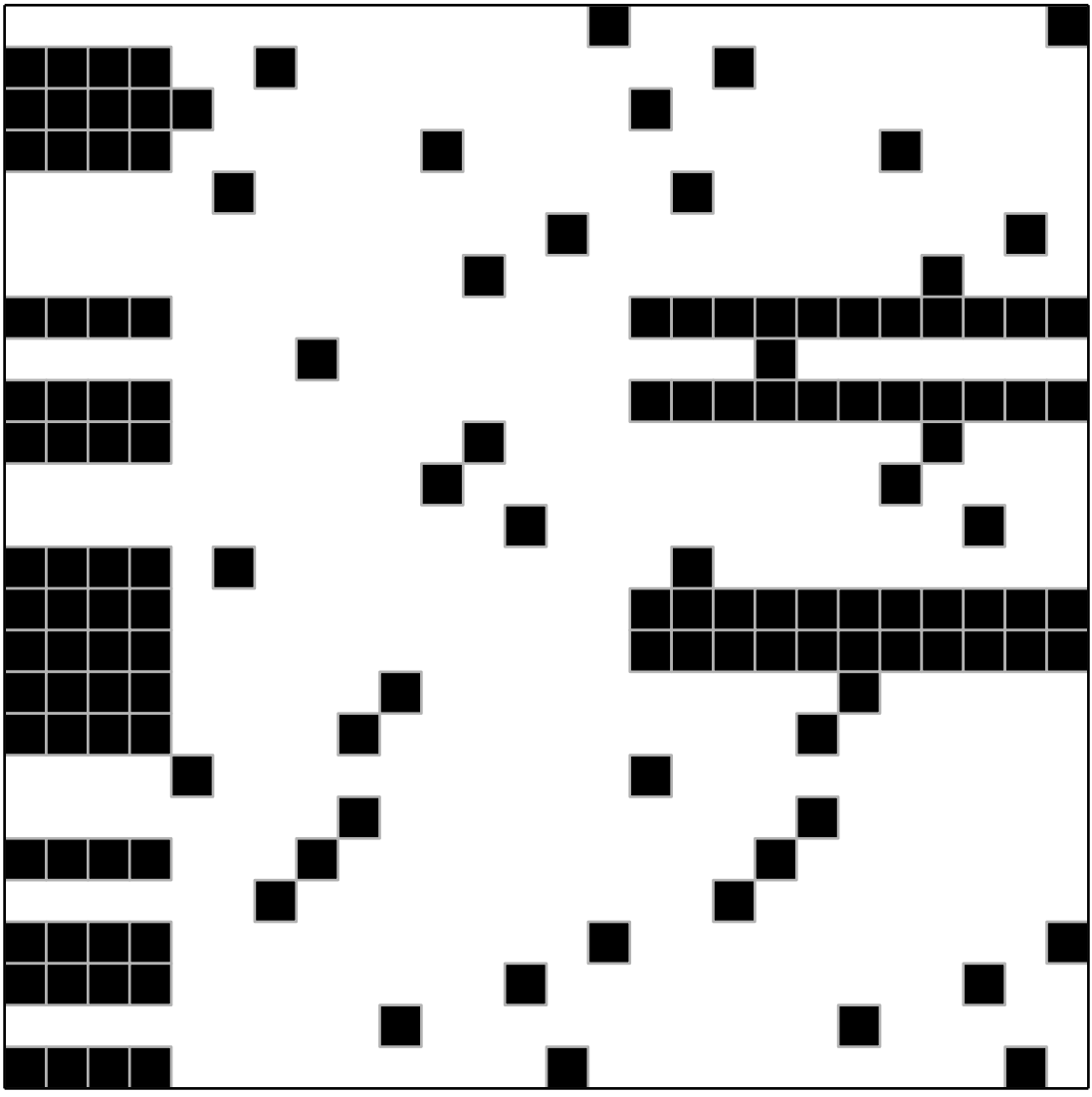
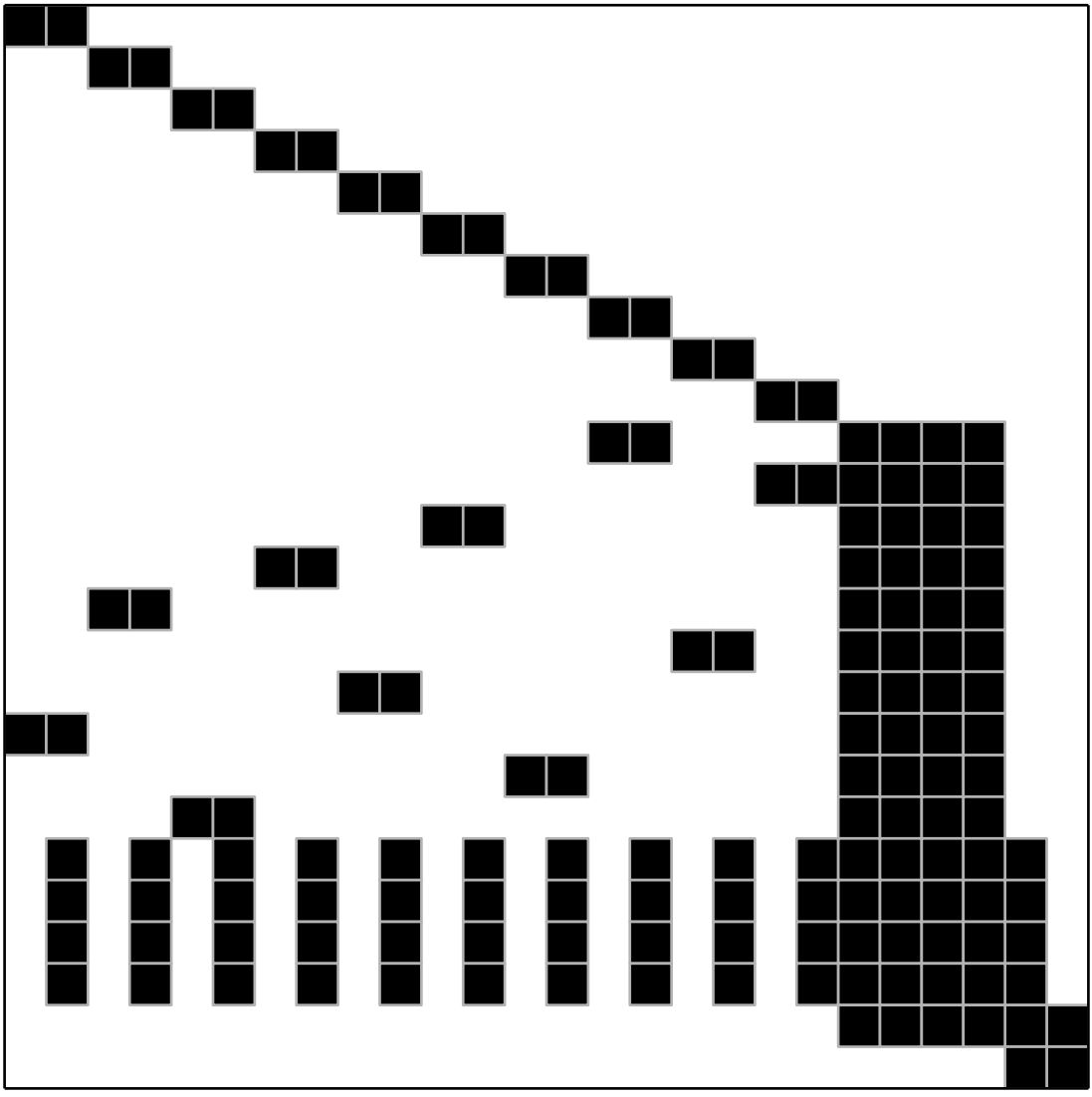
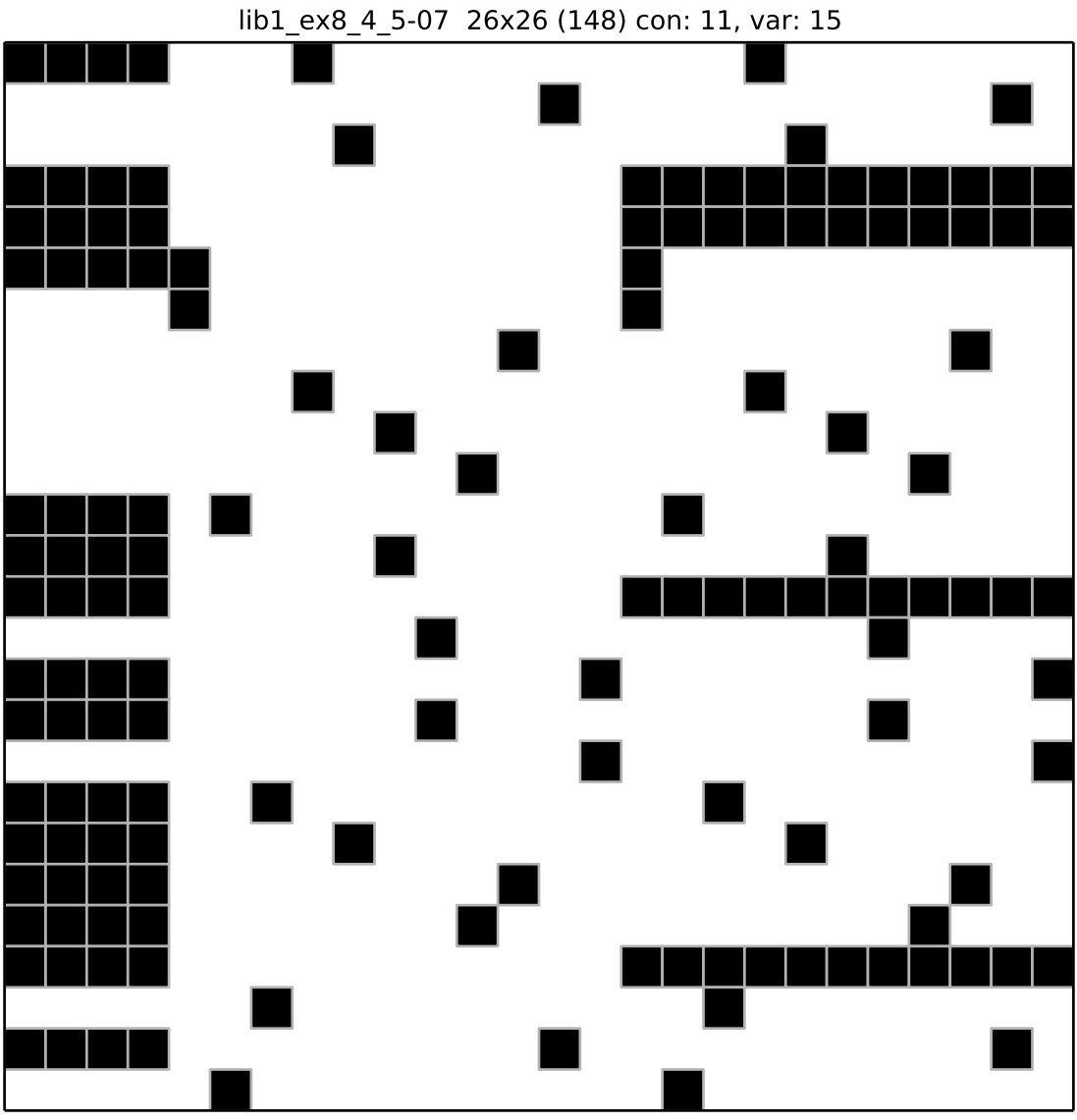


lib1_ex8_4_5-06 26x26 (148) con: 11, var: 15

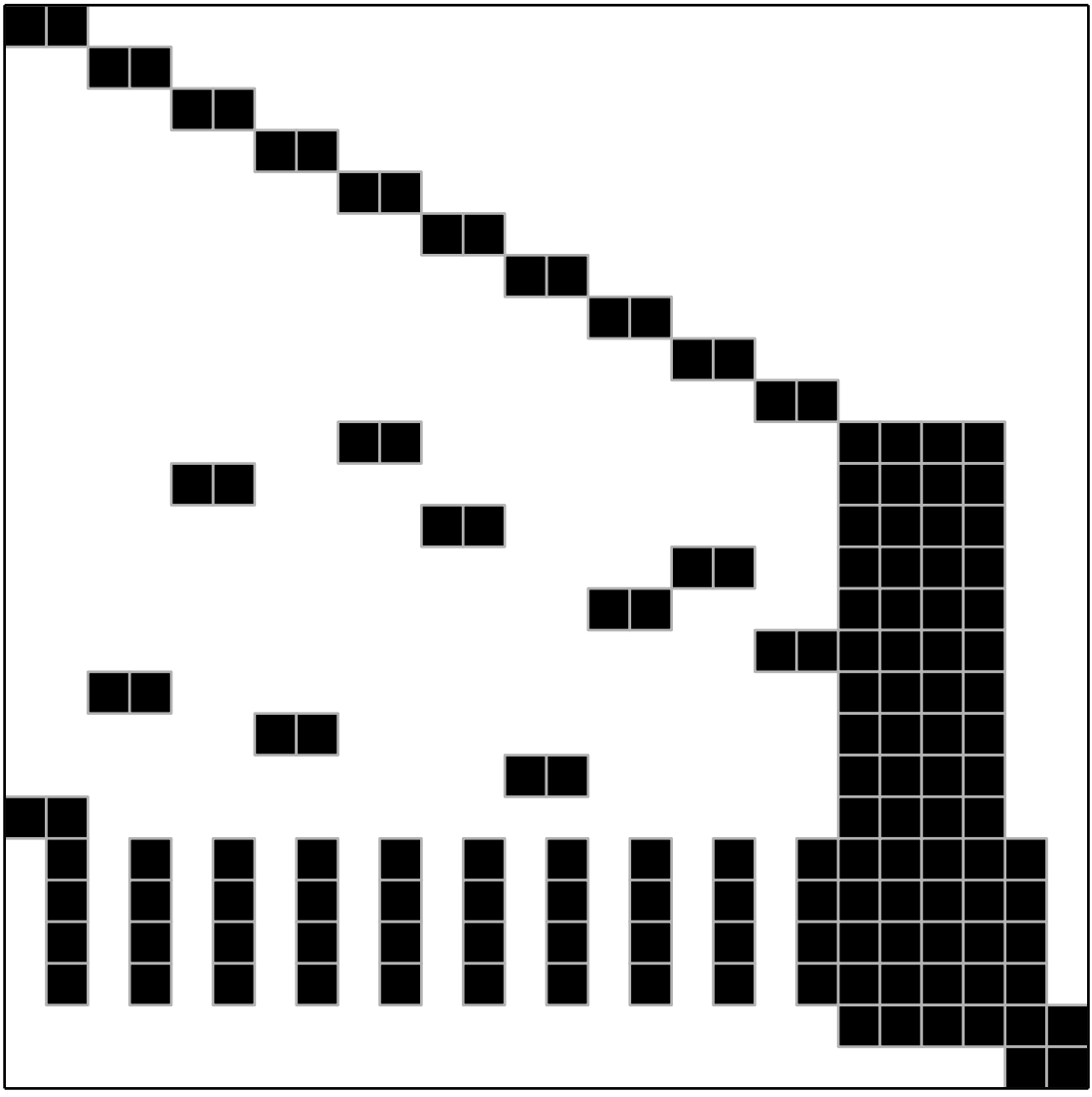


lib1_ex8_4_5-06, cost: 13, diff: 13, explored: 24432, time: 5.28s

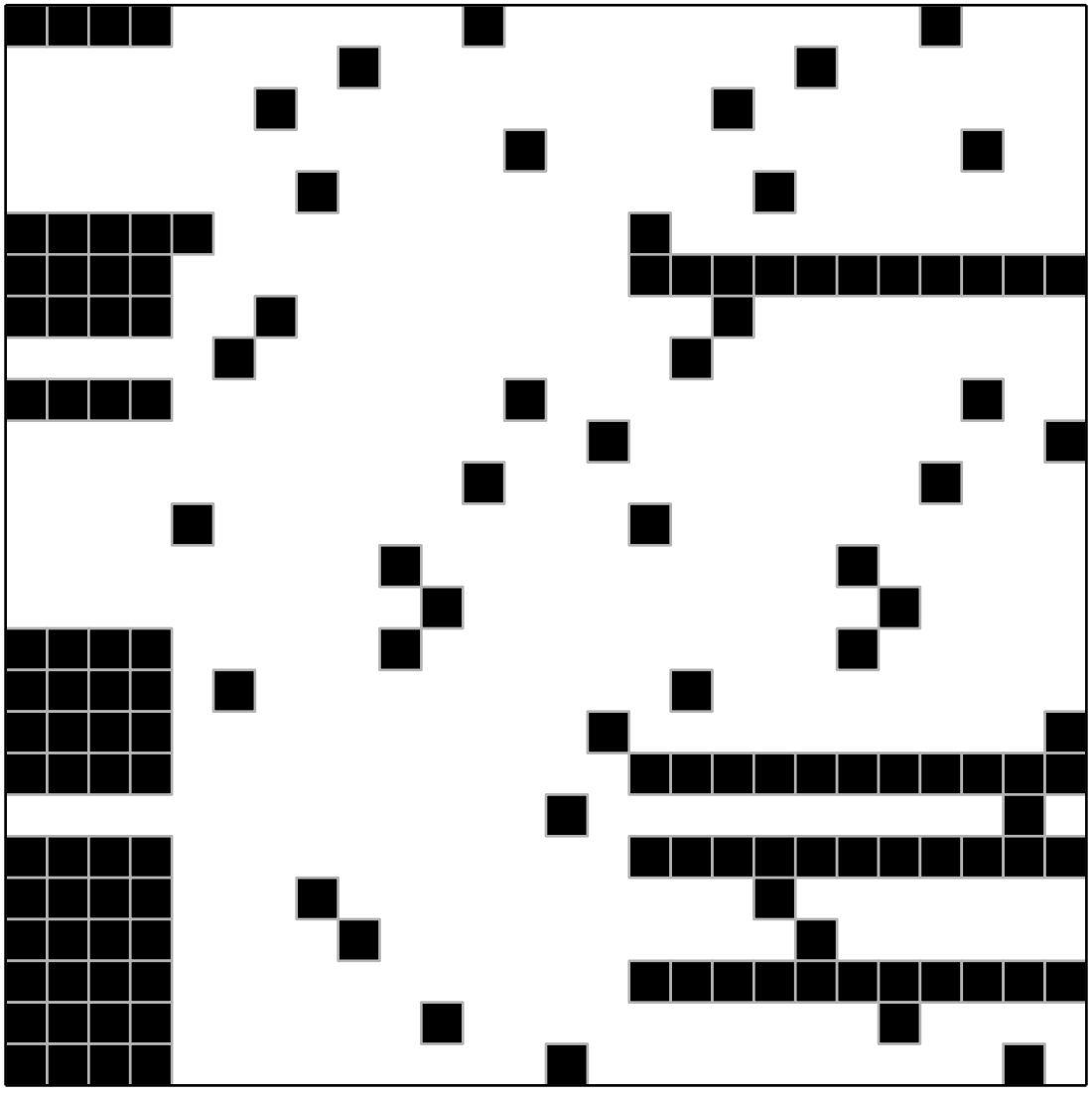



lib1_ex8_4_5-07 26x26 (148) con: 11, var: 15

lib1_ex8_4_5-07, cost: 13, diff: 13, explored: 24432, time: 5.26s



lib1_ex8_4_5-08 26x26 (148) con: 11, var: 15



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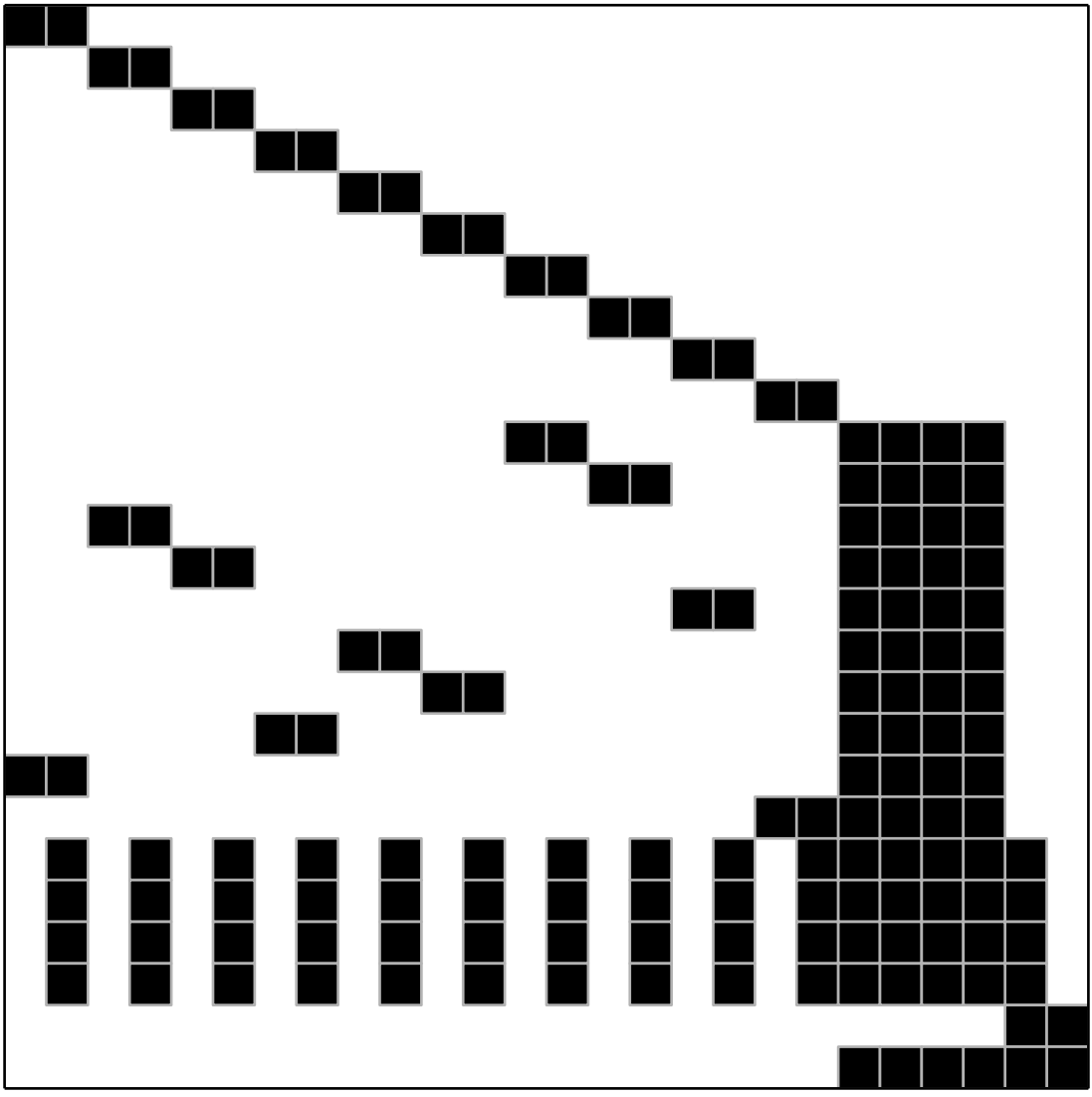
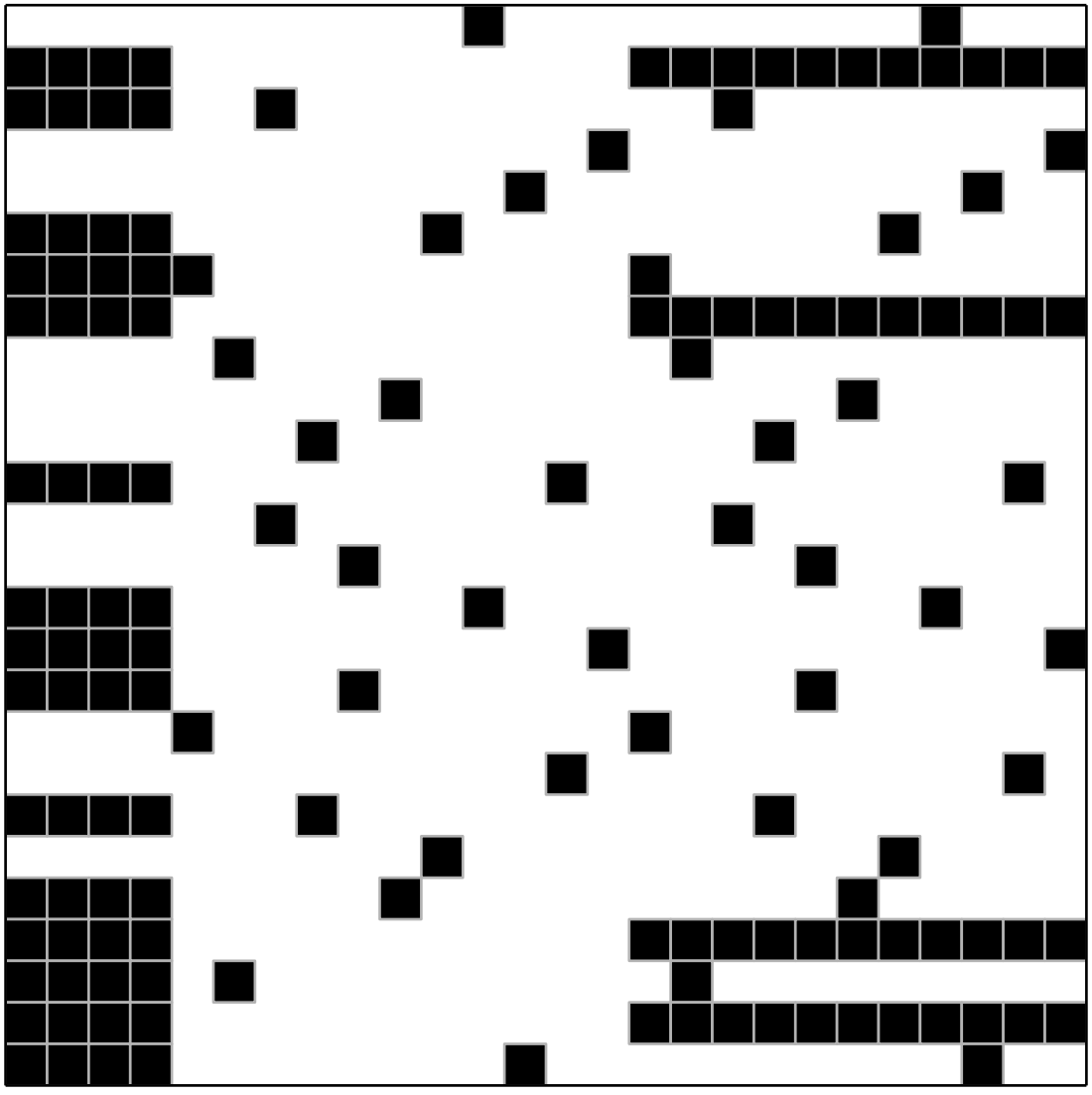


lib1_ex8_4_5-09 26x26 (148) con: 11, var: 15



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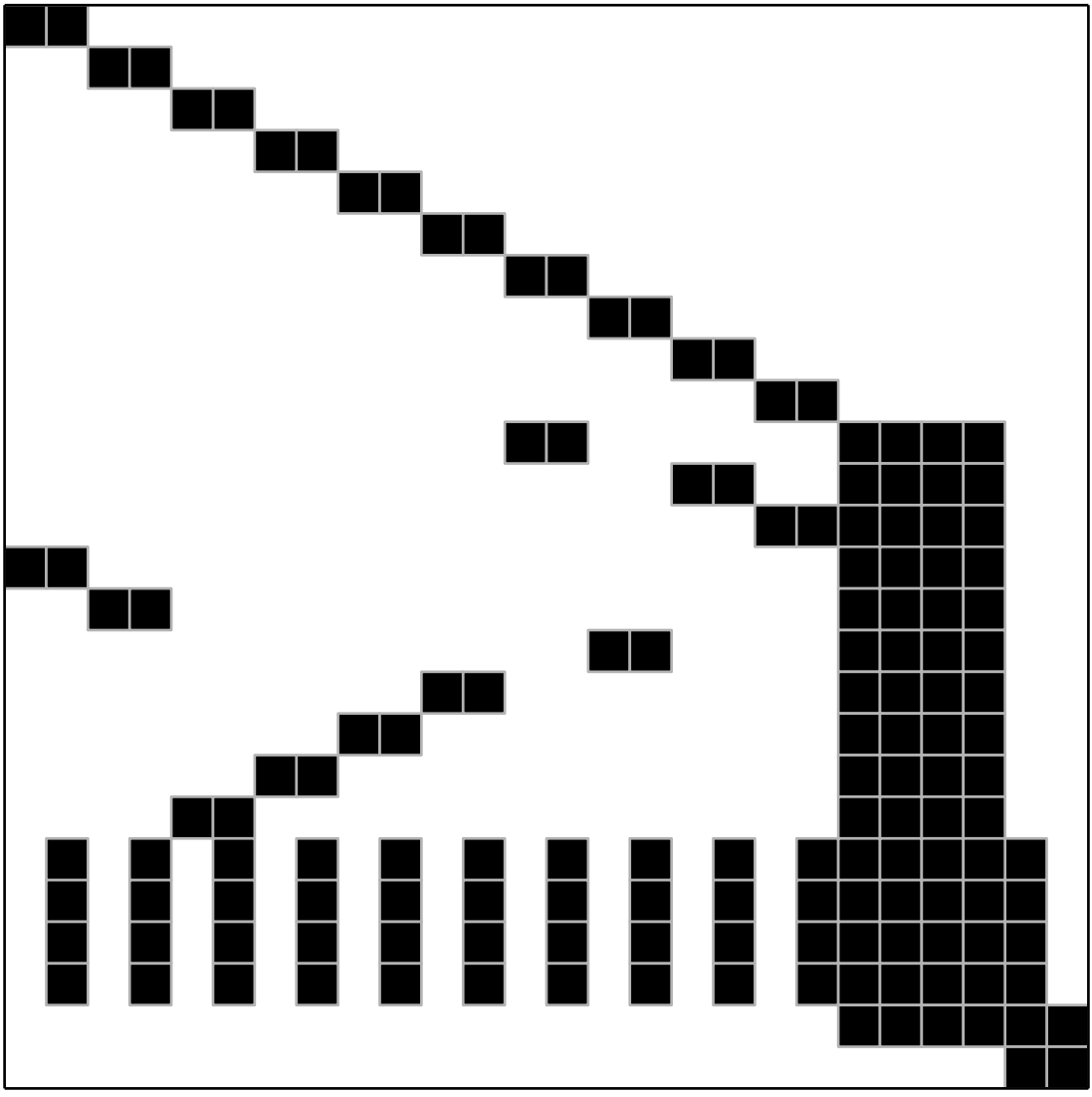
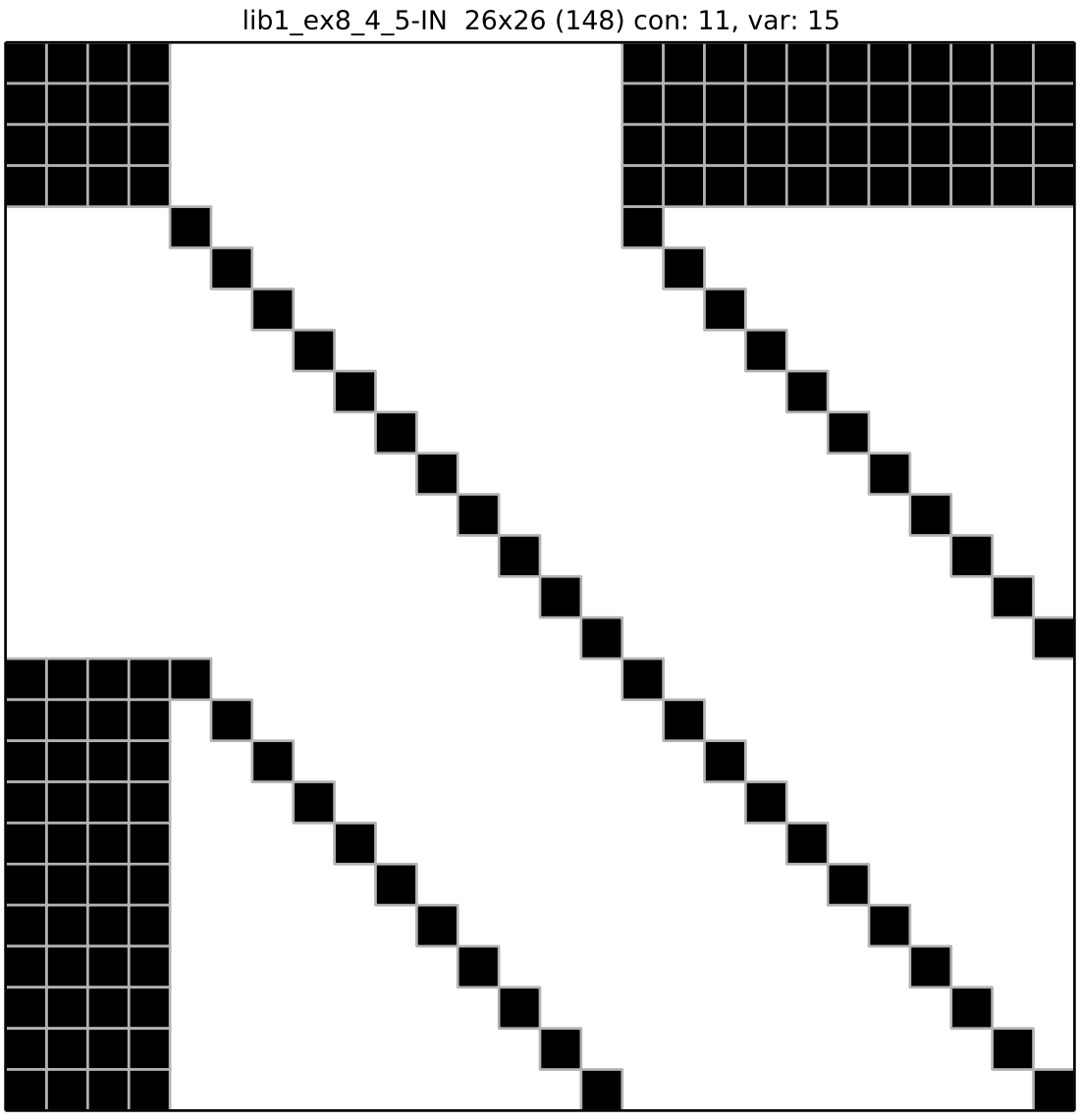
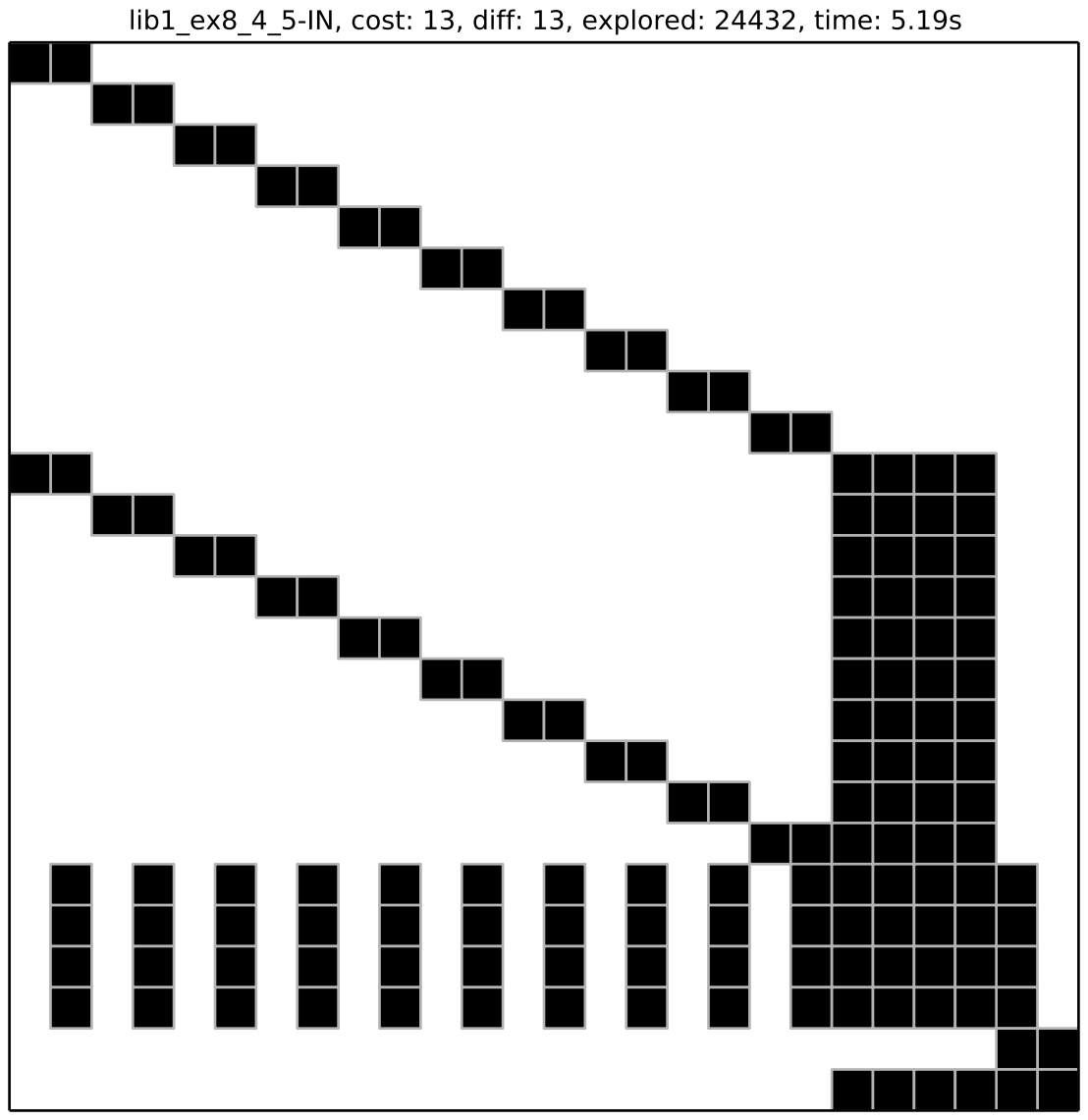
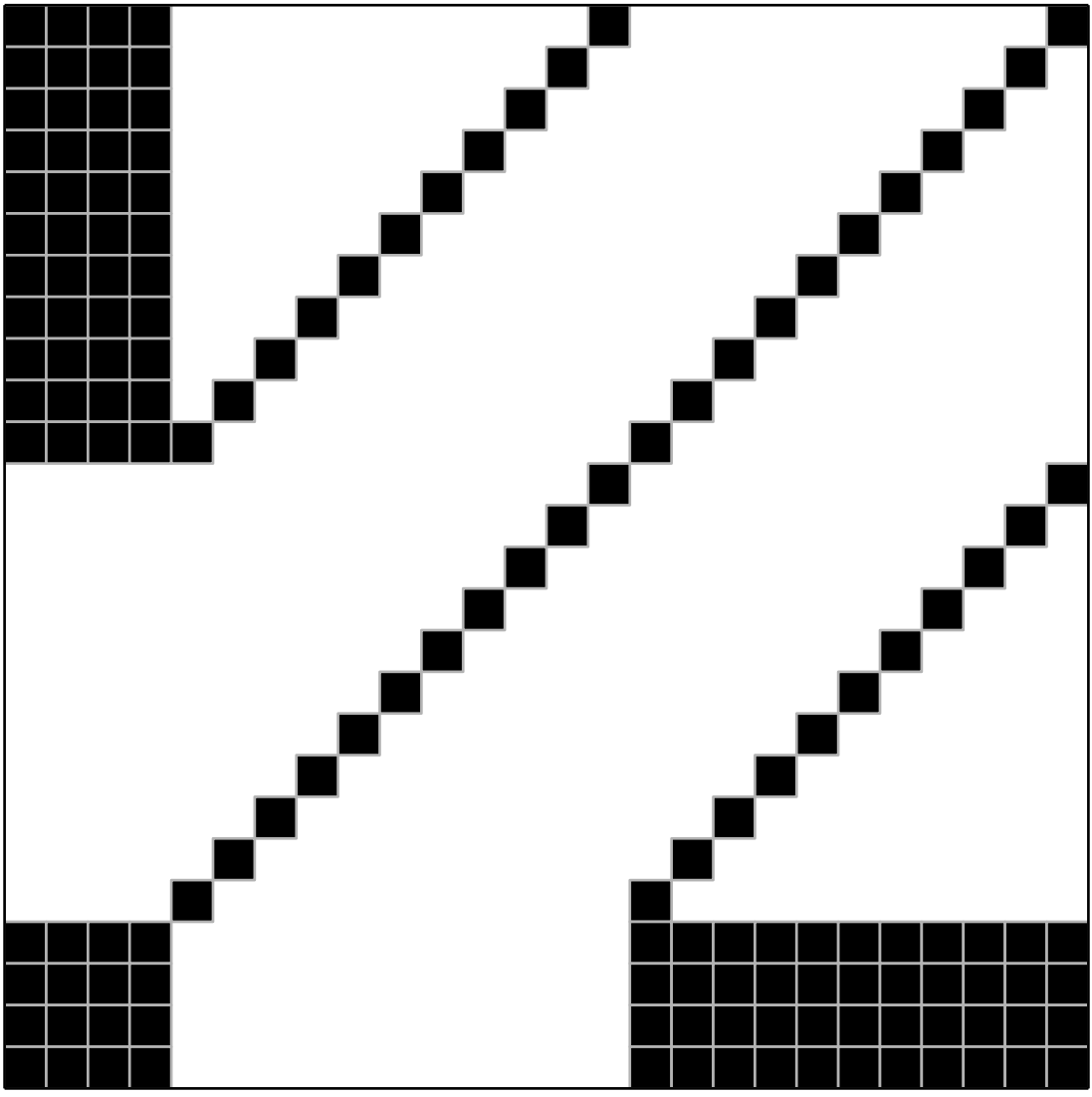



lib1_ex8_4_5-IN 26x26 (148) con: 11, var: 15


lib1_ex8_4_5-IN, cost: 13, diff: 13, explored: 24432, time: 5.19s

lib1_ex8_4_5-RE 26x26 (148) con: 11, var: 15



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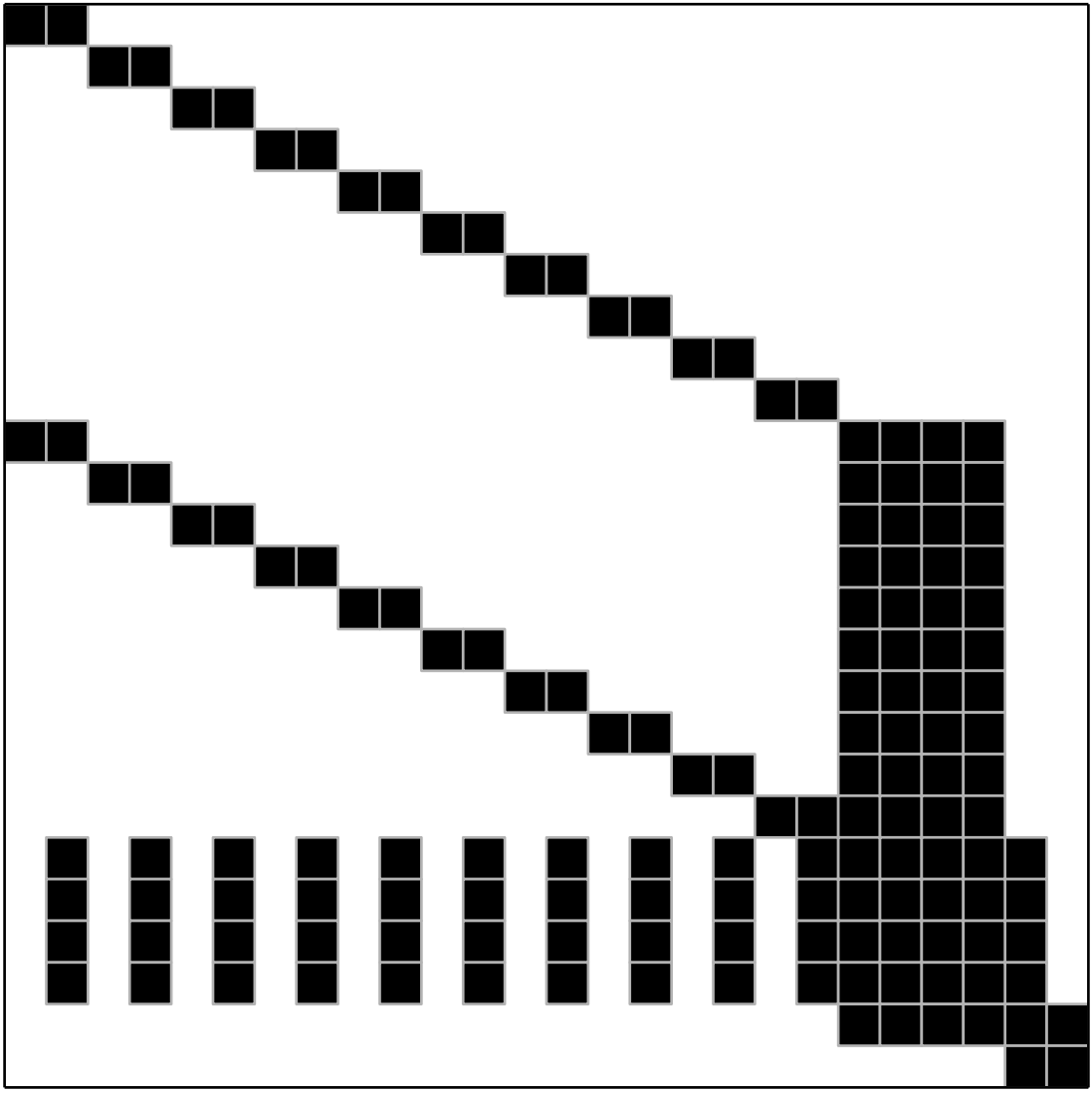
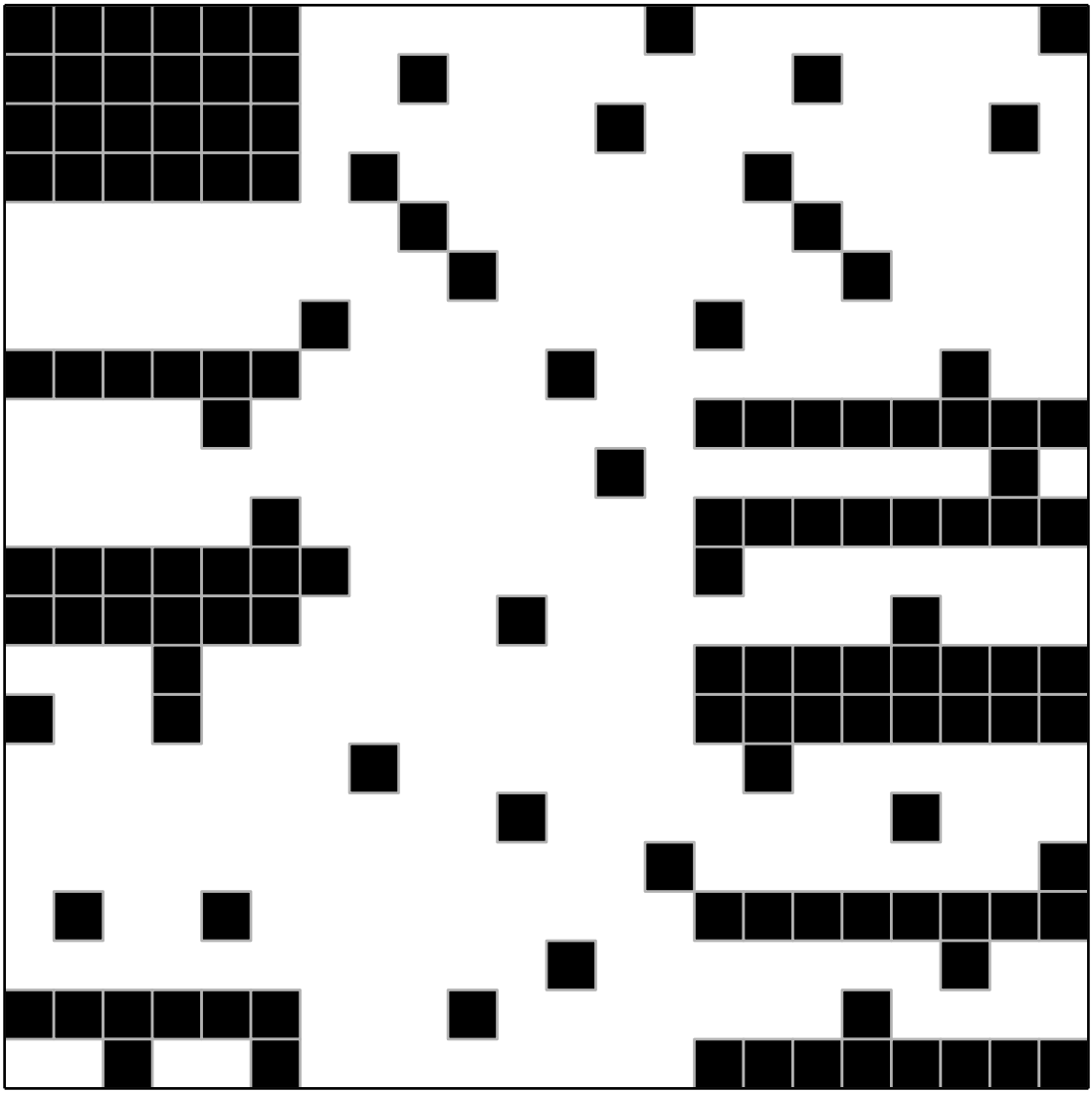
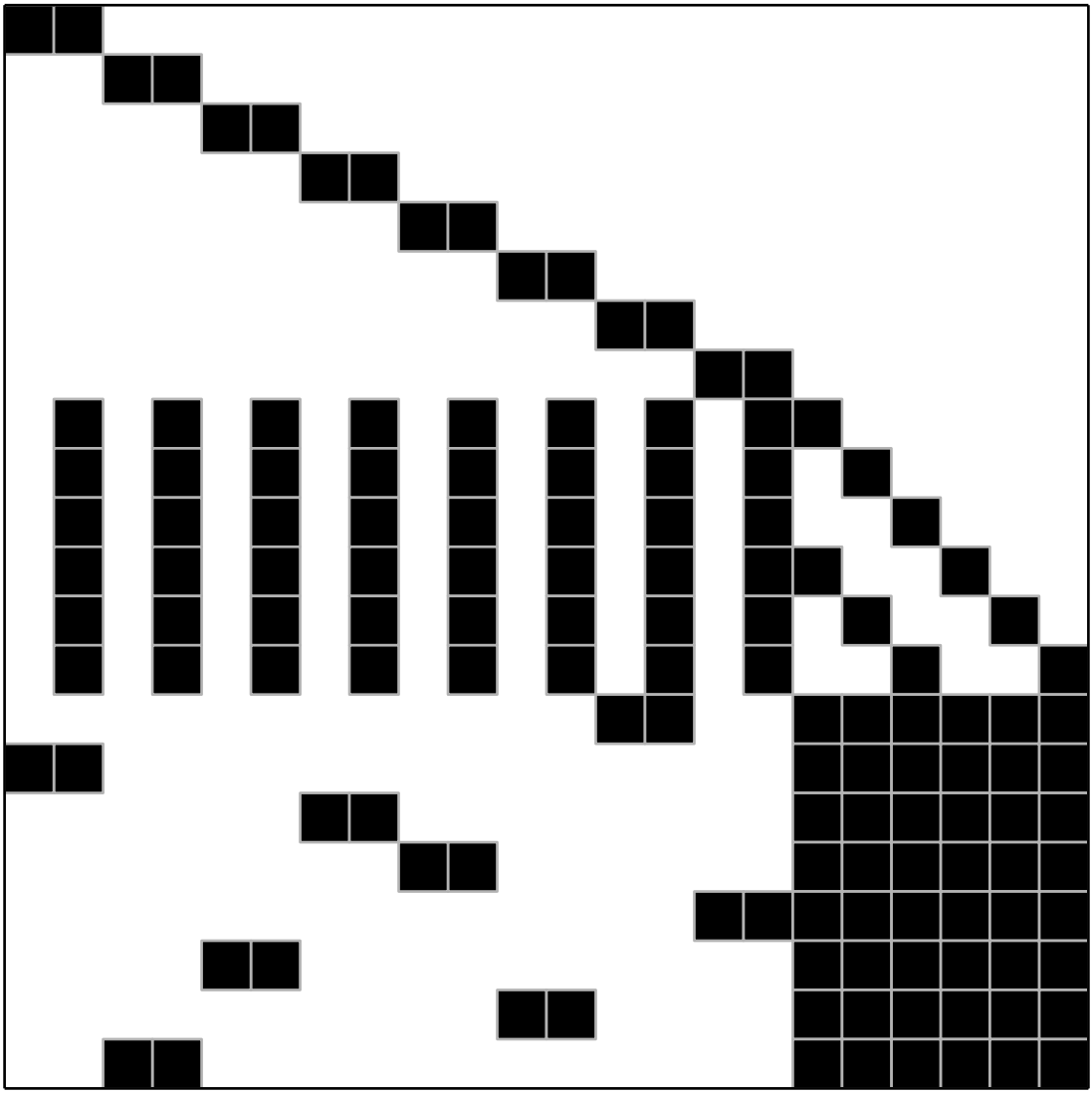


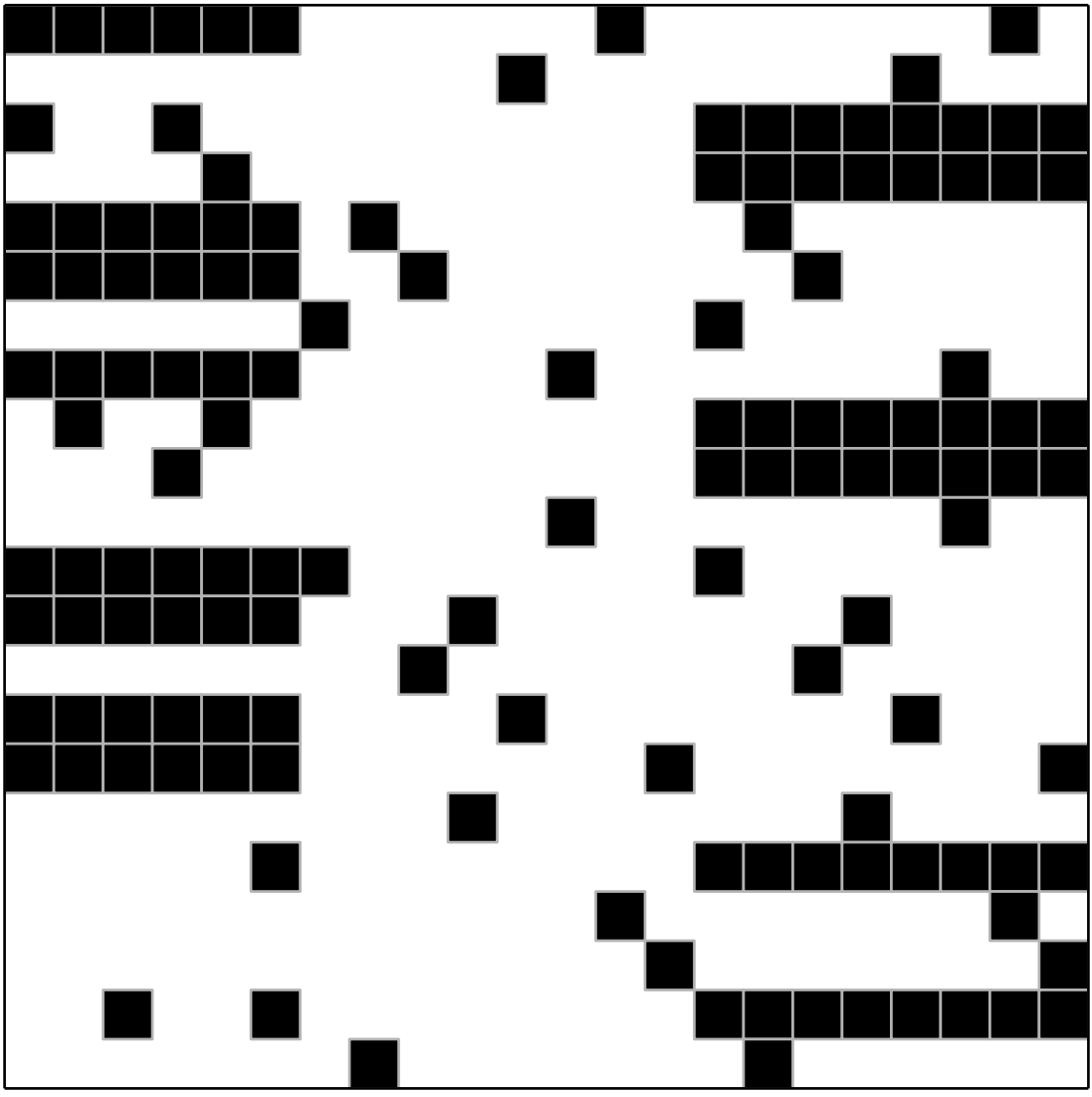
lib1_ex8_4_6-00 22x22 (137) con: 8, var: 14



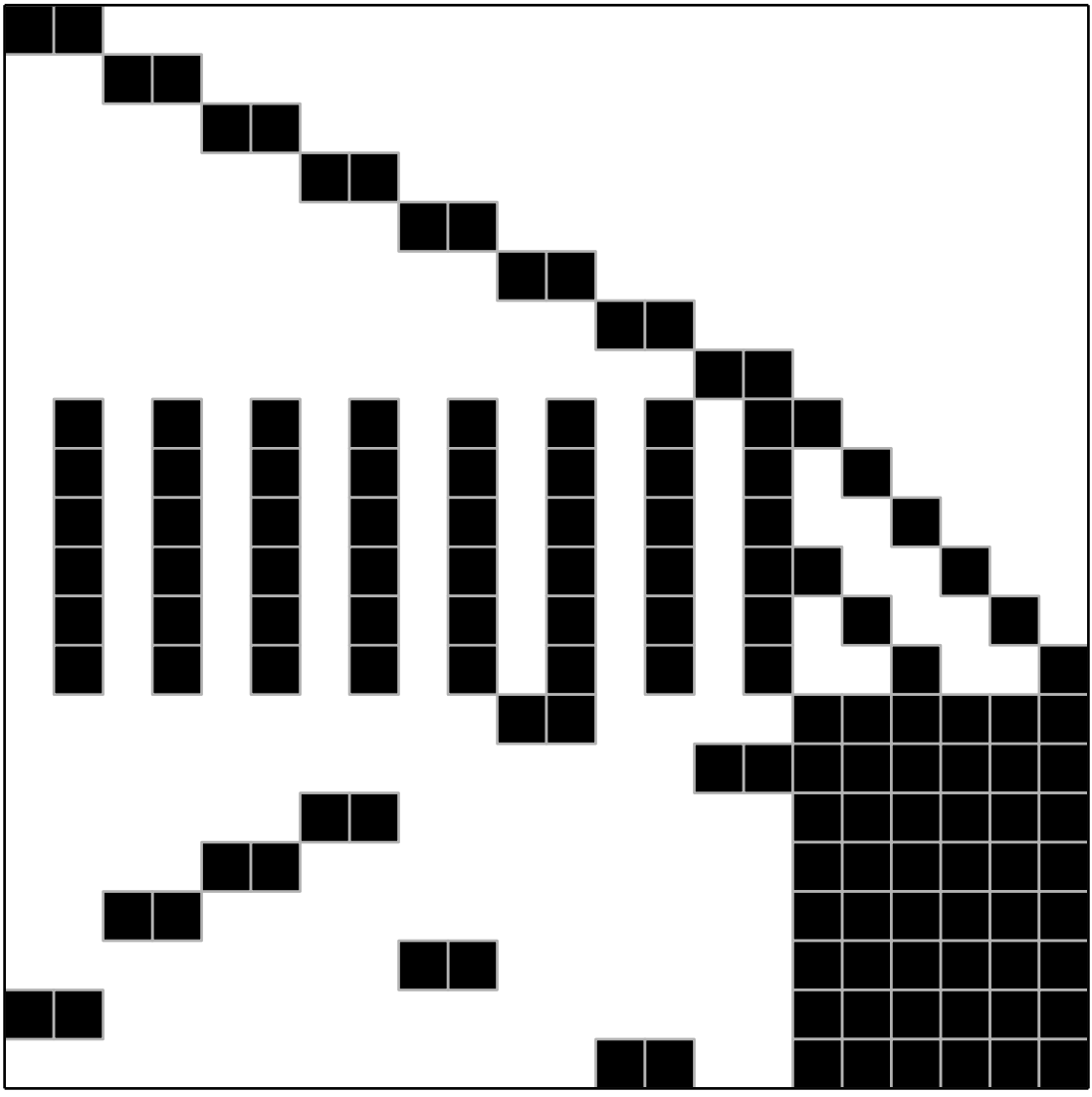
lib1_ex8_4_6-00, cost: 8, diff: 8, explored: 1109, time: 0.25s



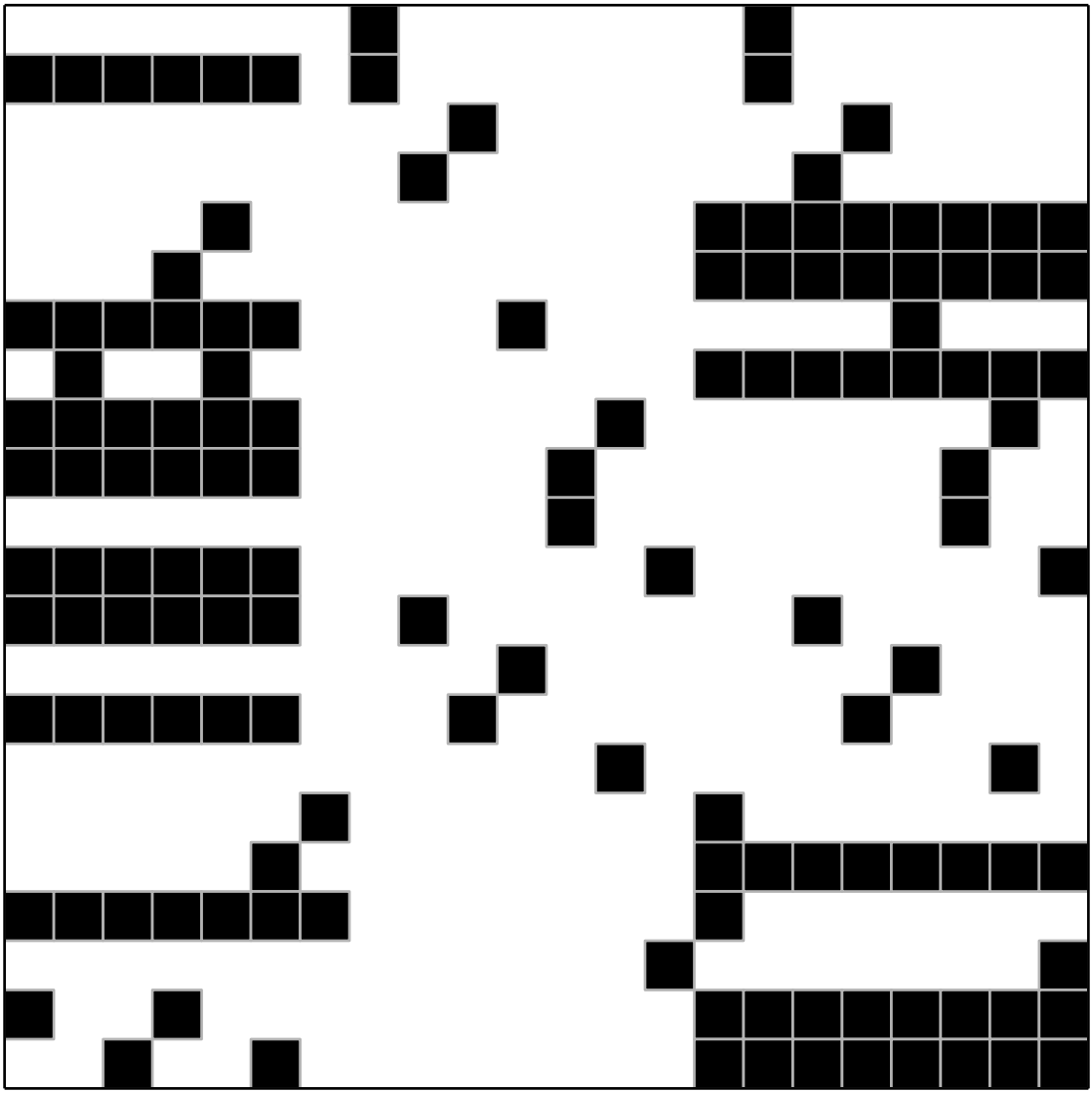
lib1_ex8_4_6-01 22x22 (137) con: 8, var: 14

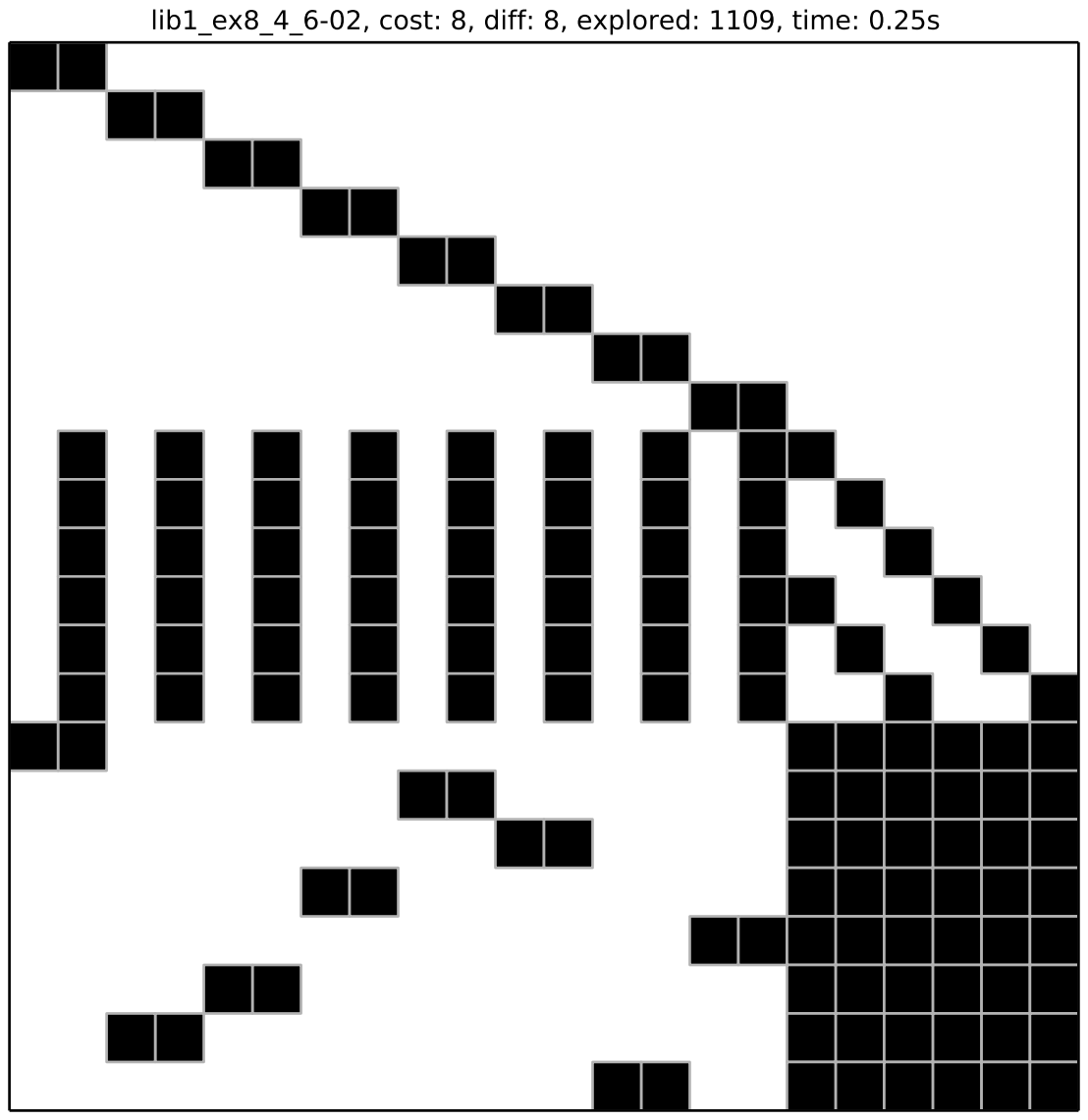


lib1_ex8_4_6-01, cost: 8, diff: 8, explored: 1109, time: 0.25s

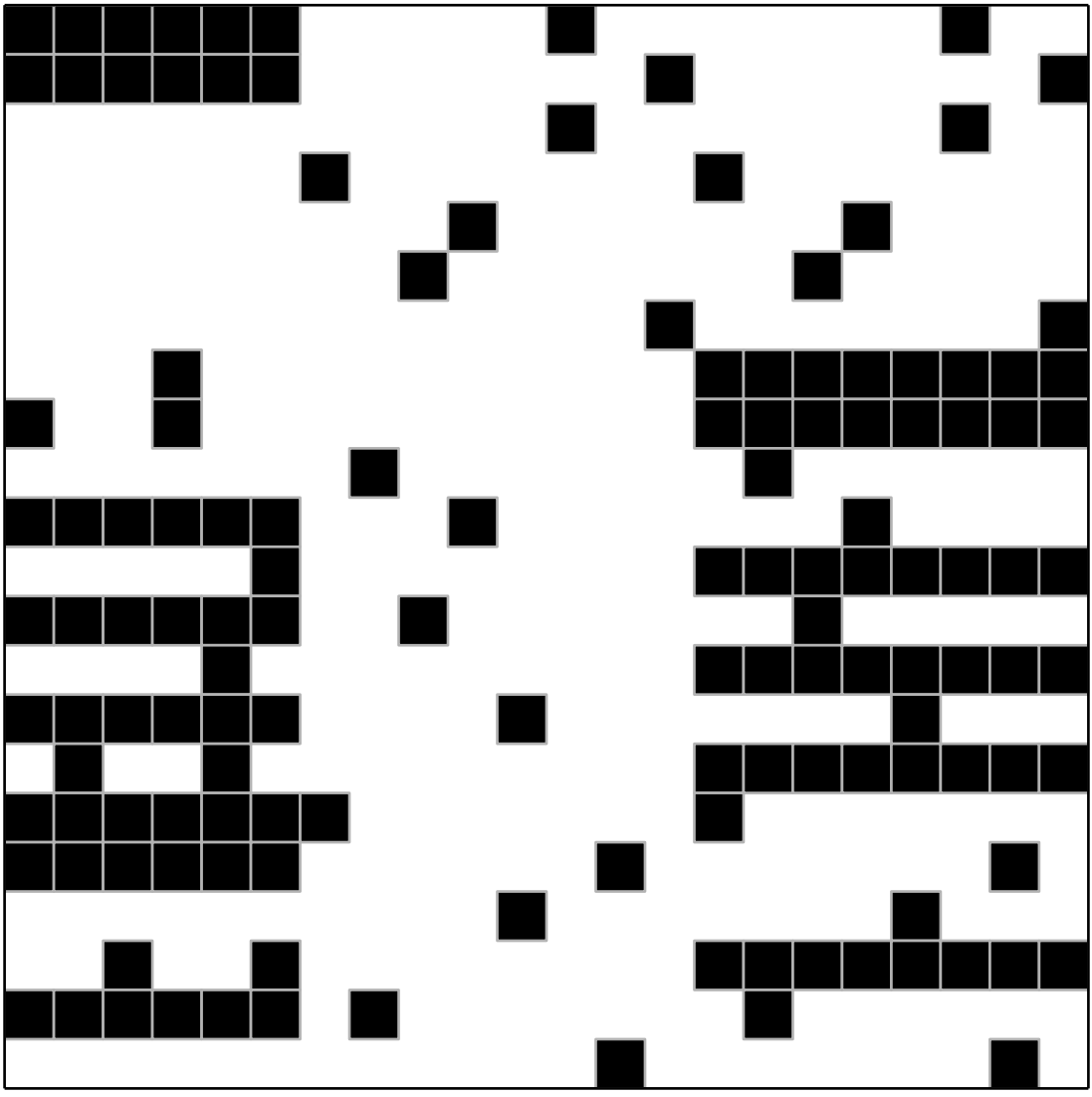


lib1_ex8_4_6-02 22x22 (137) con: 8, var: 14




lib1_ex8_4_6-02, cost: 8, diff: 8, explored: 1109, time: 0.25s

lib1_ex8_4_6-03 22x22 (137) con: 8, var: 14



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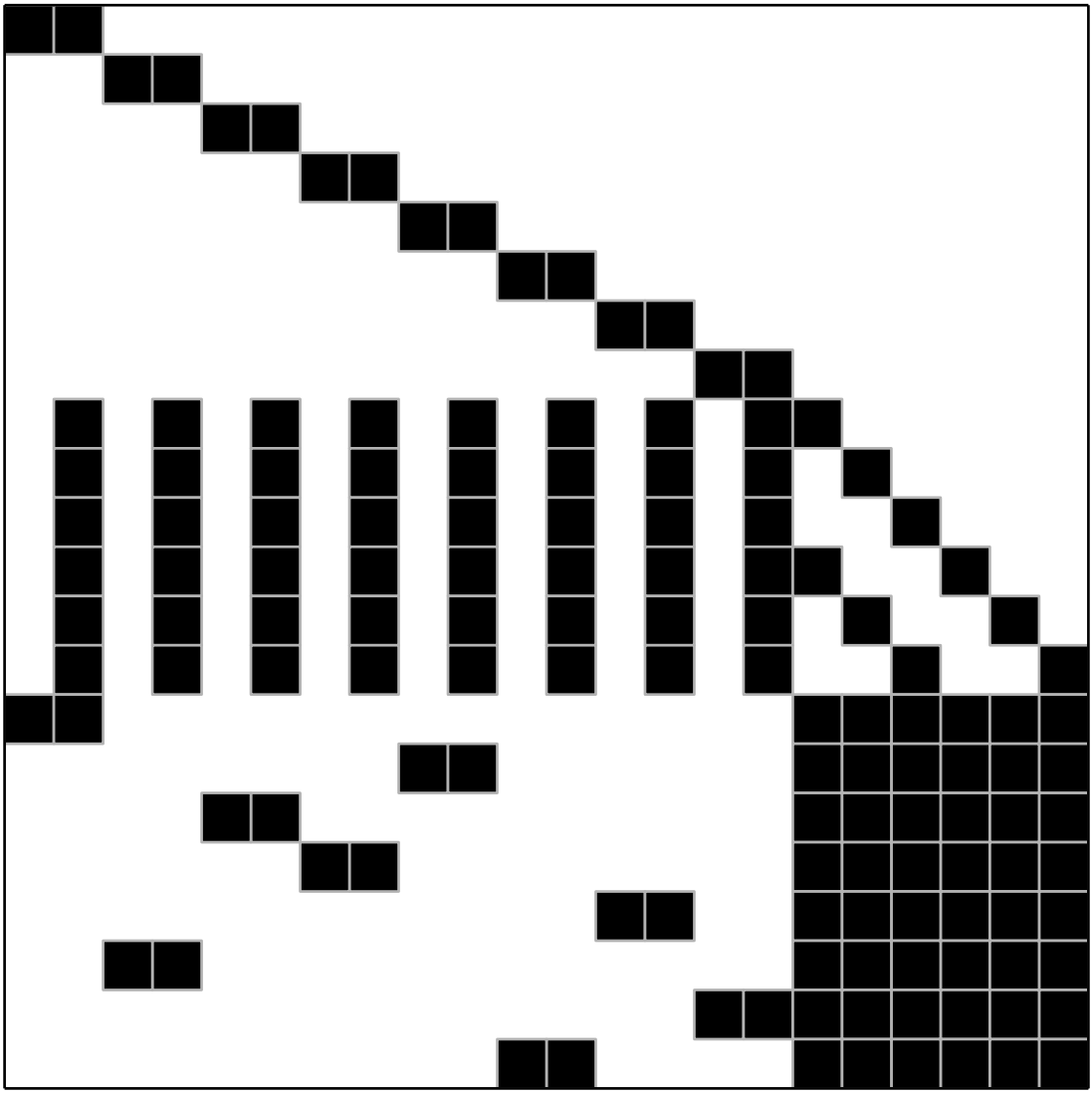
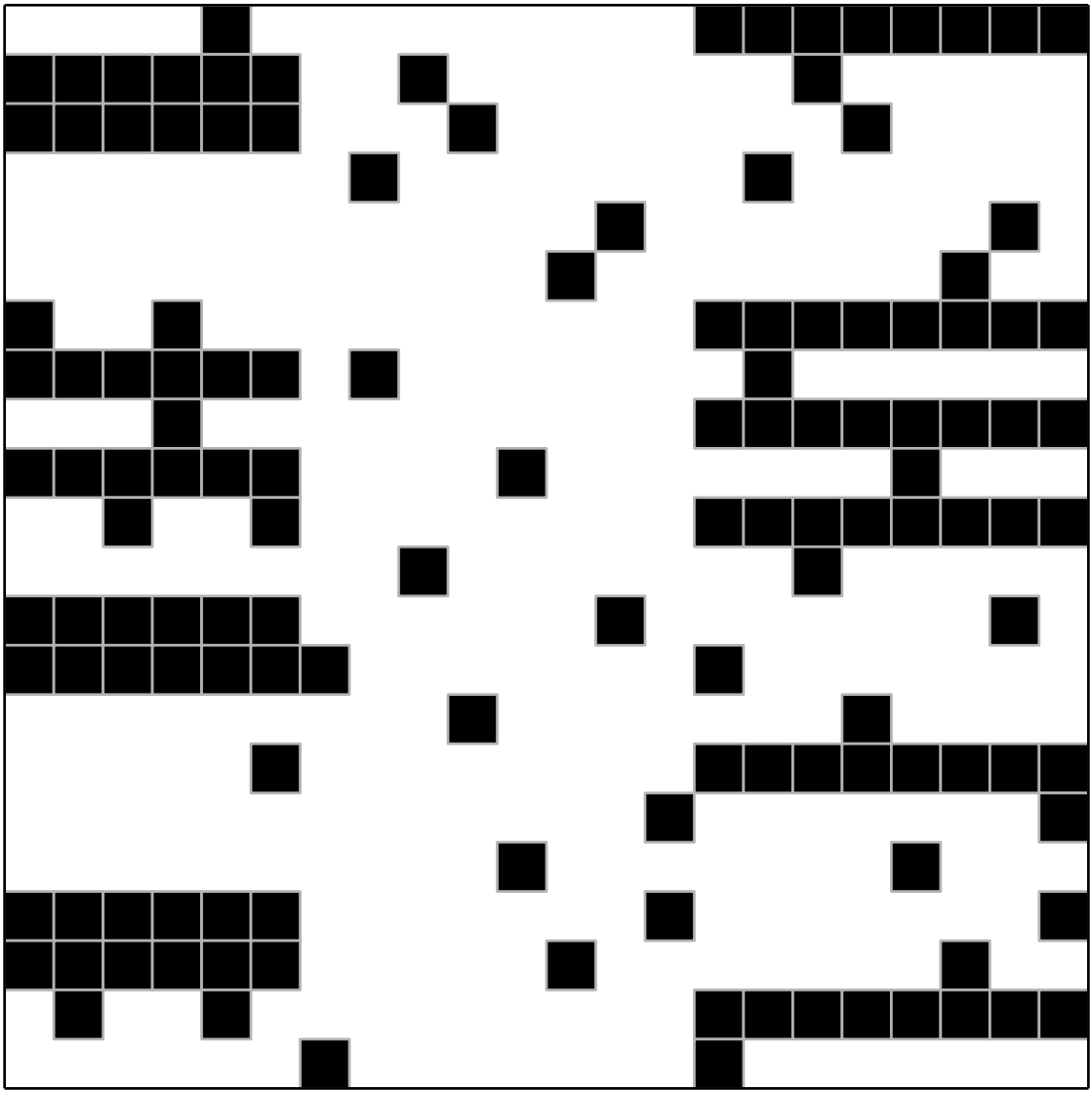


lib1_ex8_4_6-04 22x22 (137) con: 8, var: 14



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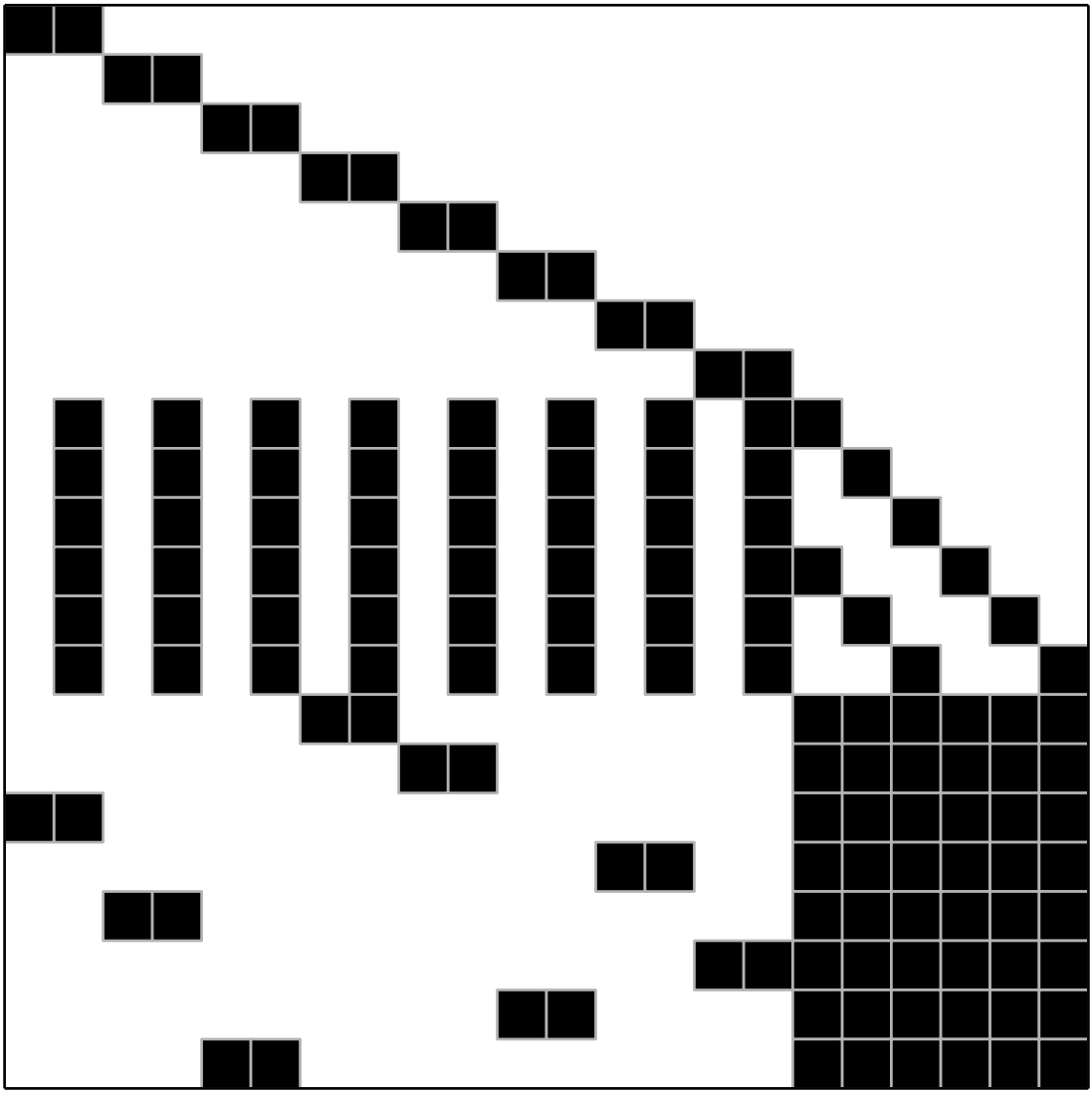
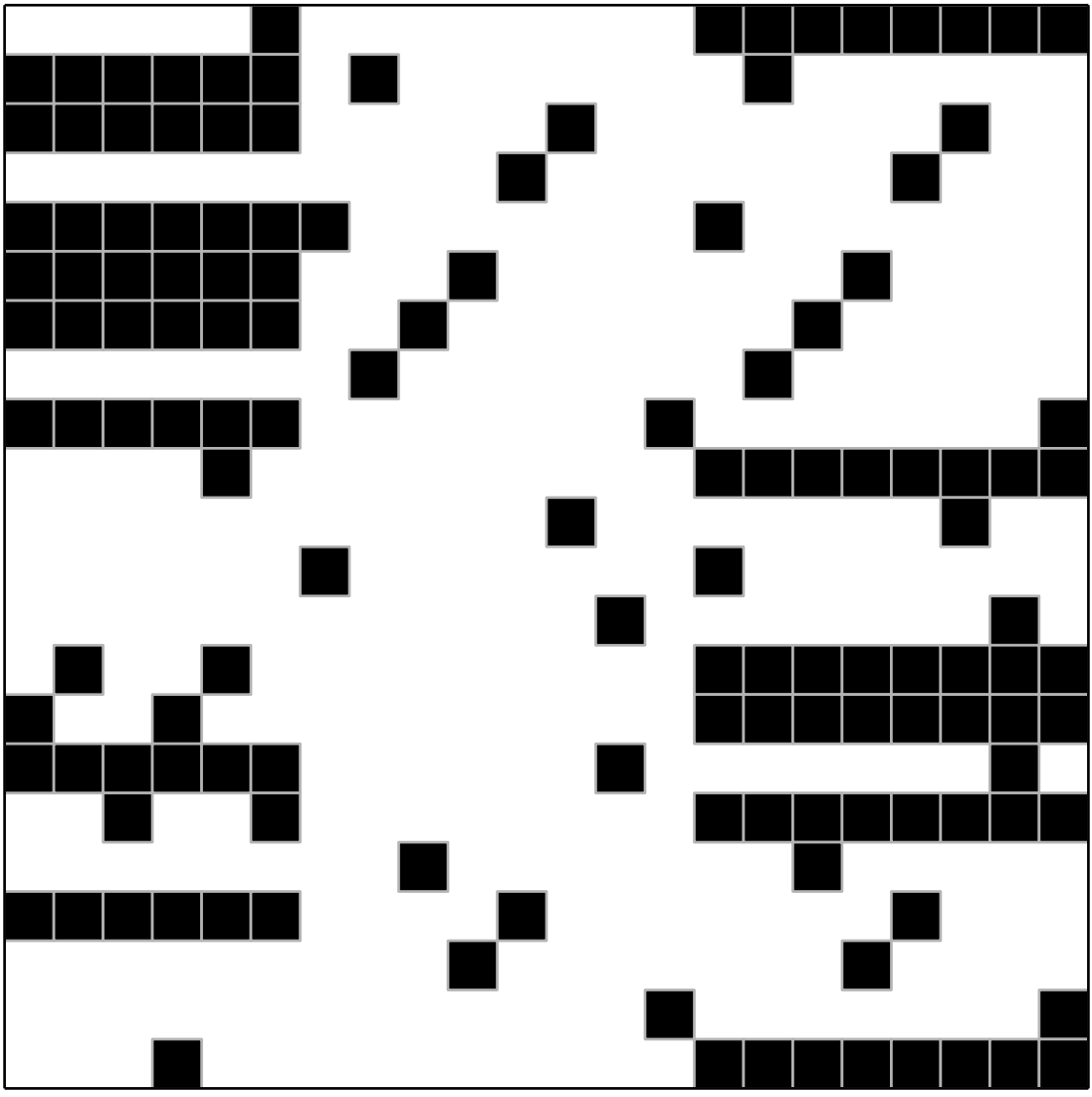
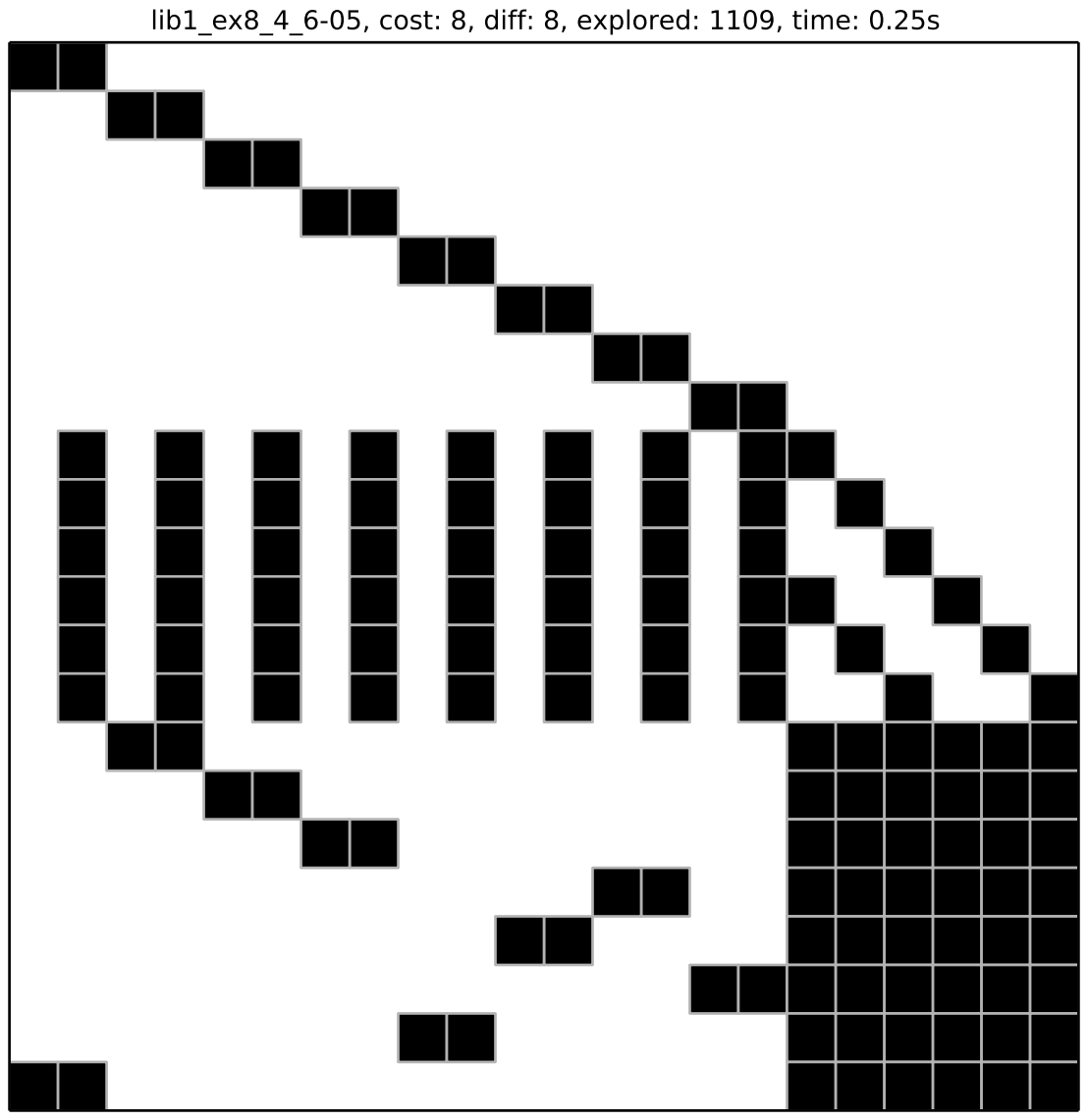
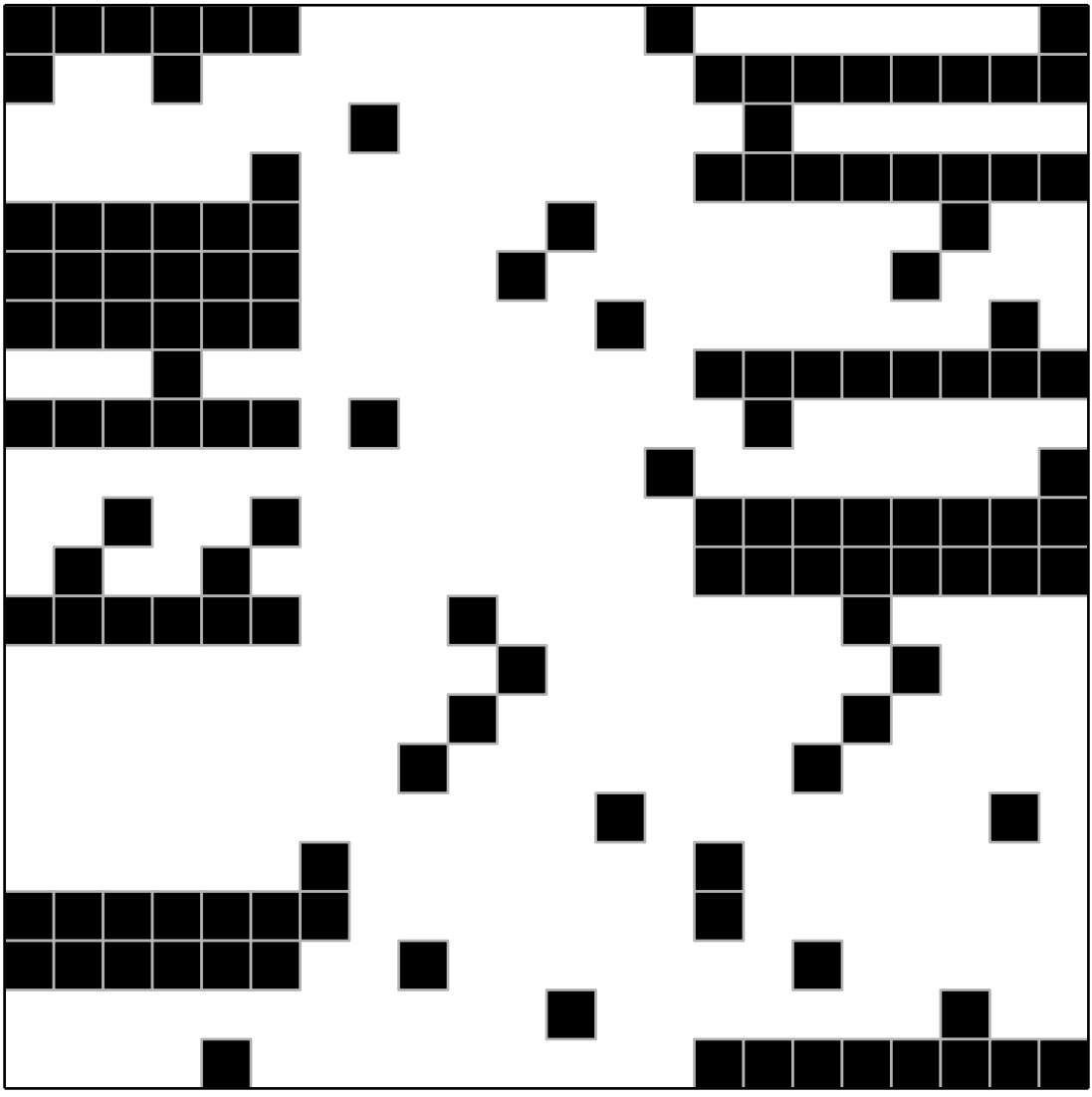


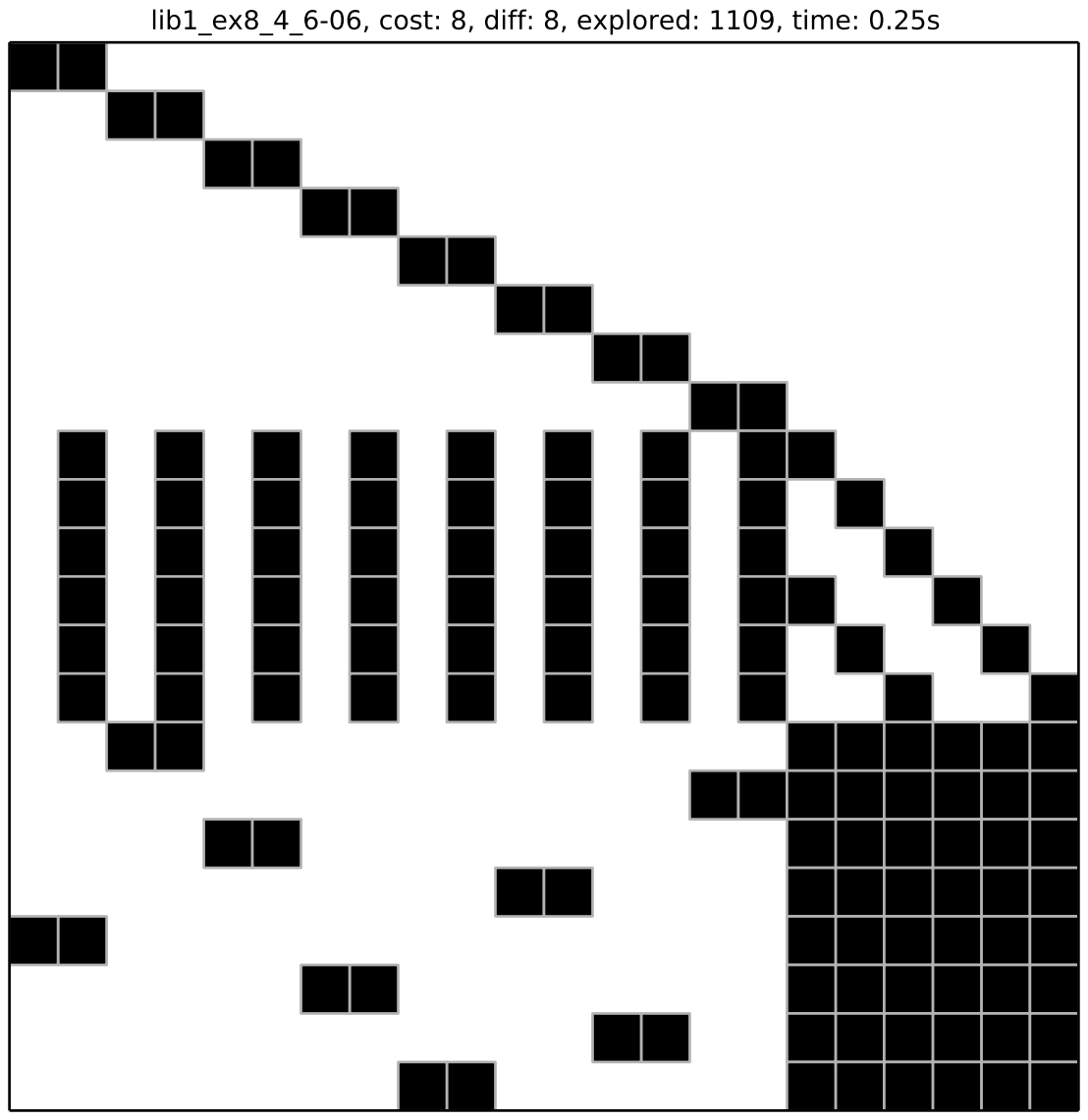
lib1_ex8_4_6-05 22x22 (137) con: 8, var: 14




lib1_ex8_4_6-05, cost: 8, diff: 8, explored: 1109, time: 0.25s

lib1_ex8_4_6-06 22x22 (137) con: 8, var: 14

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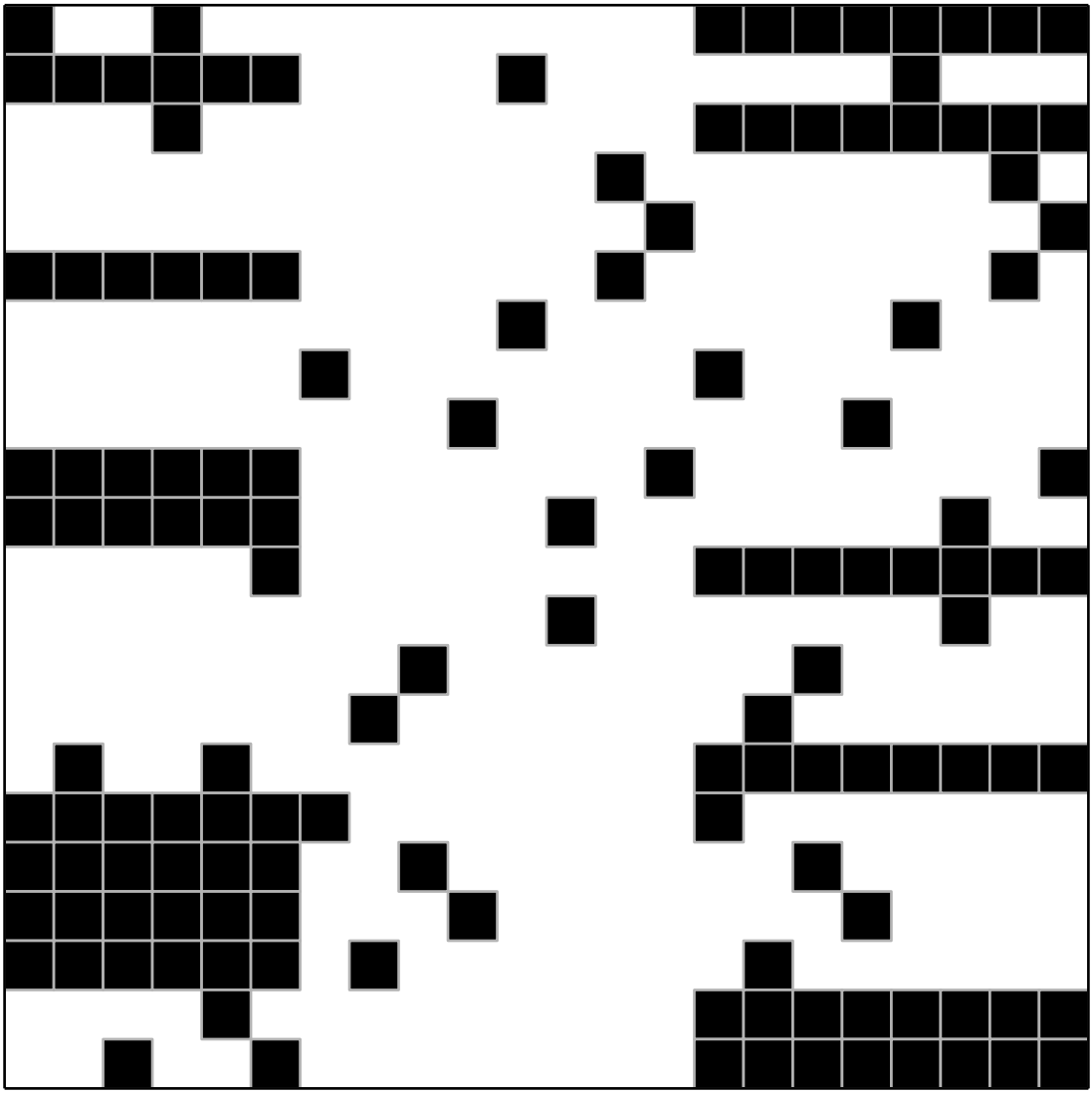
lib1_ex8_4_6-07 22x22 (137) con: 8, var: 14



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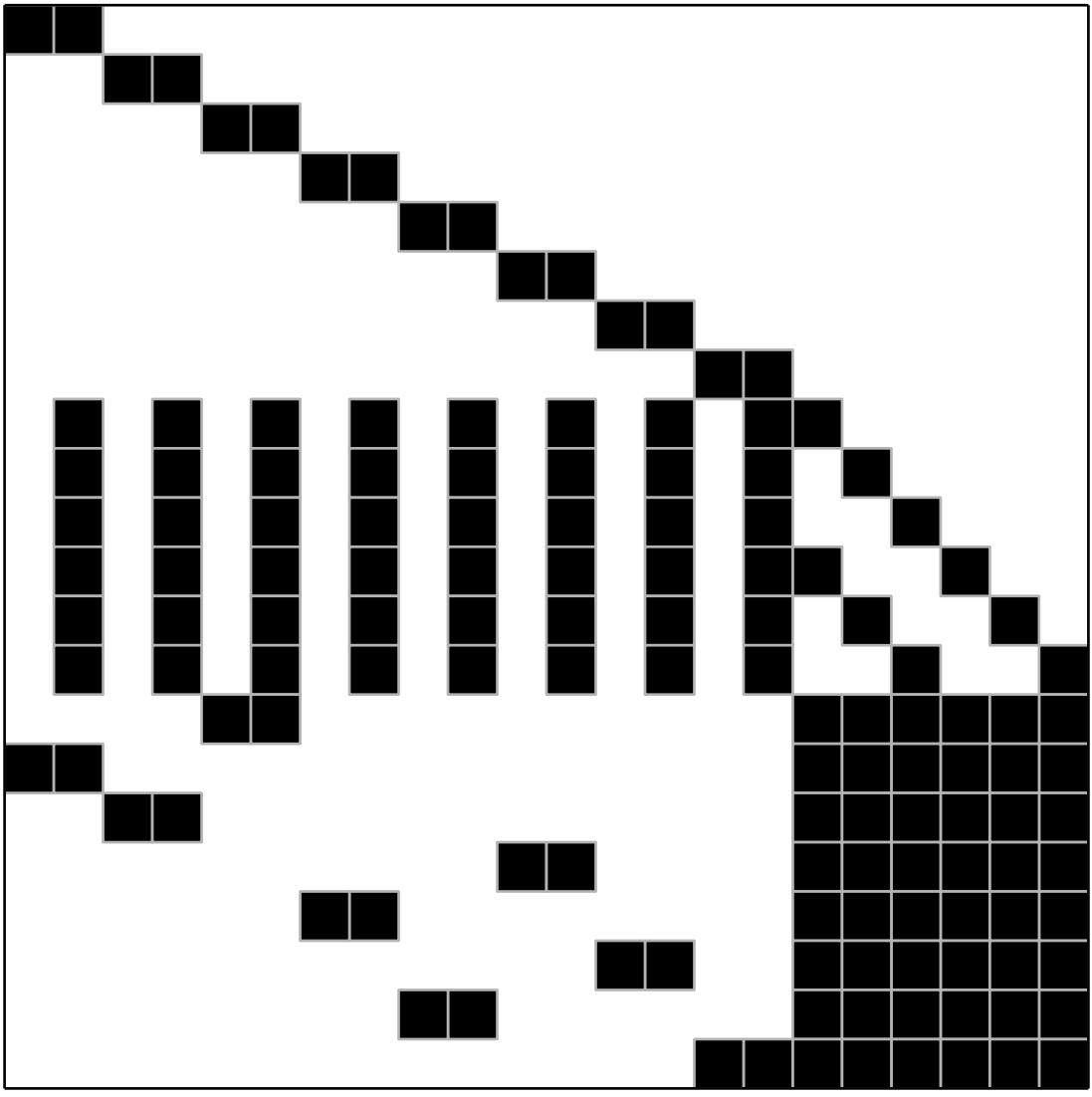
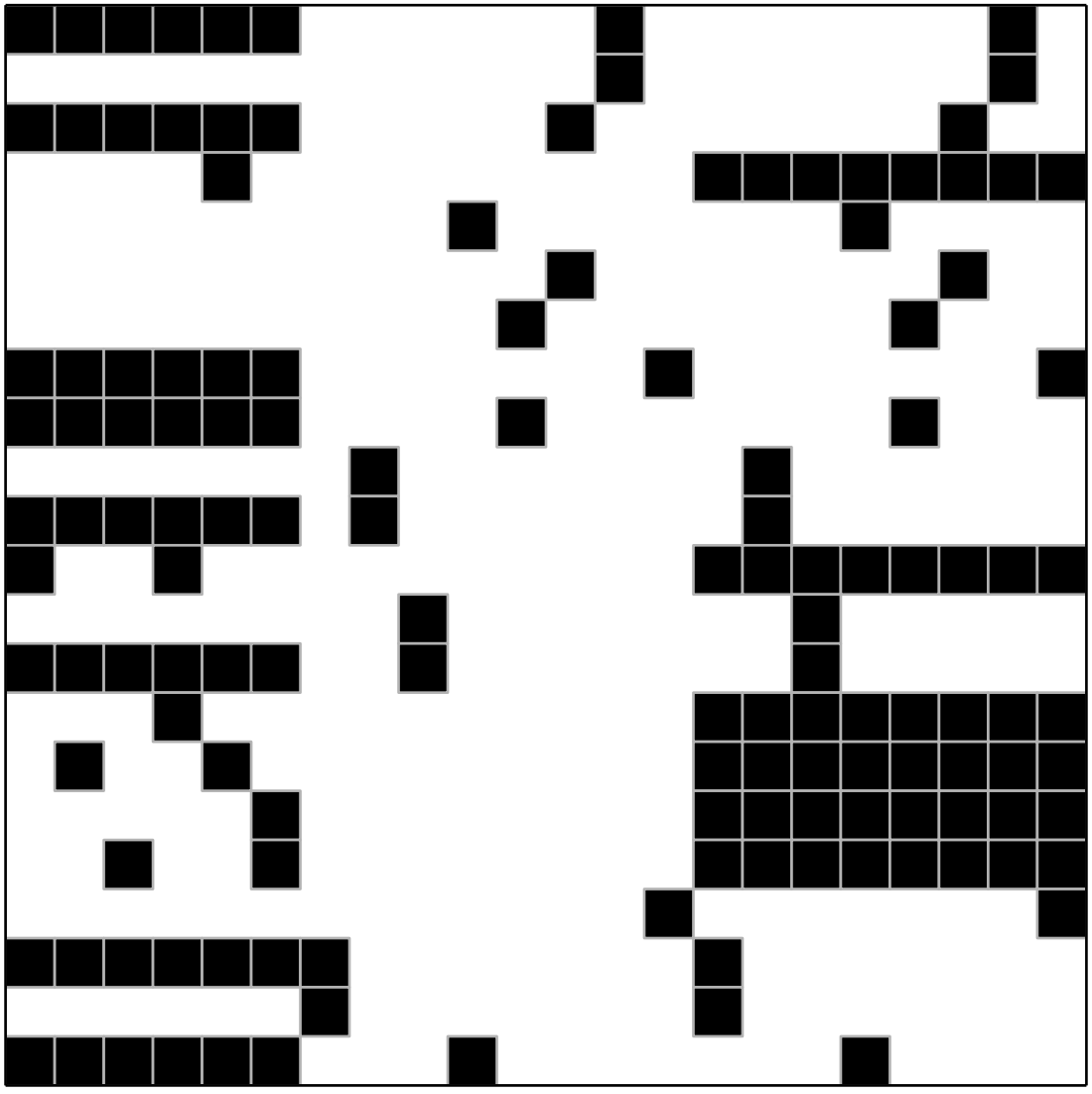
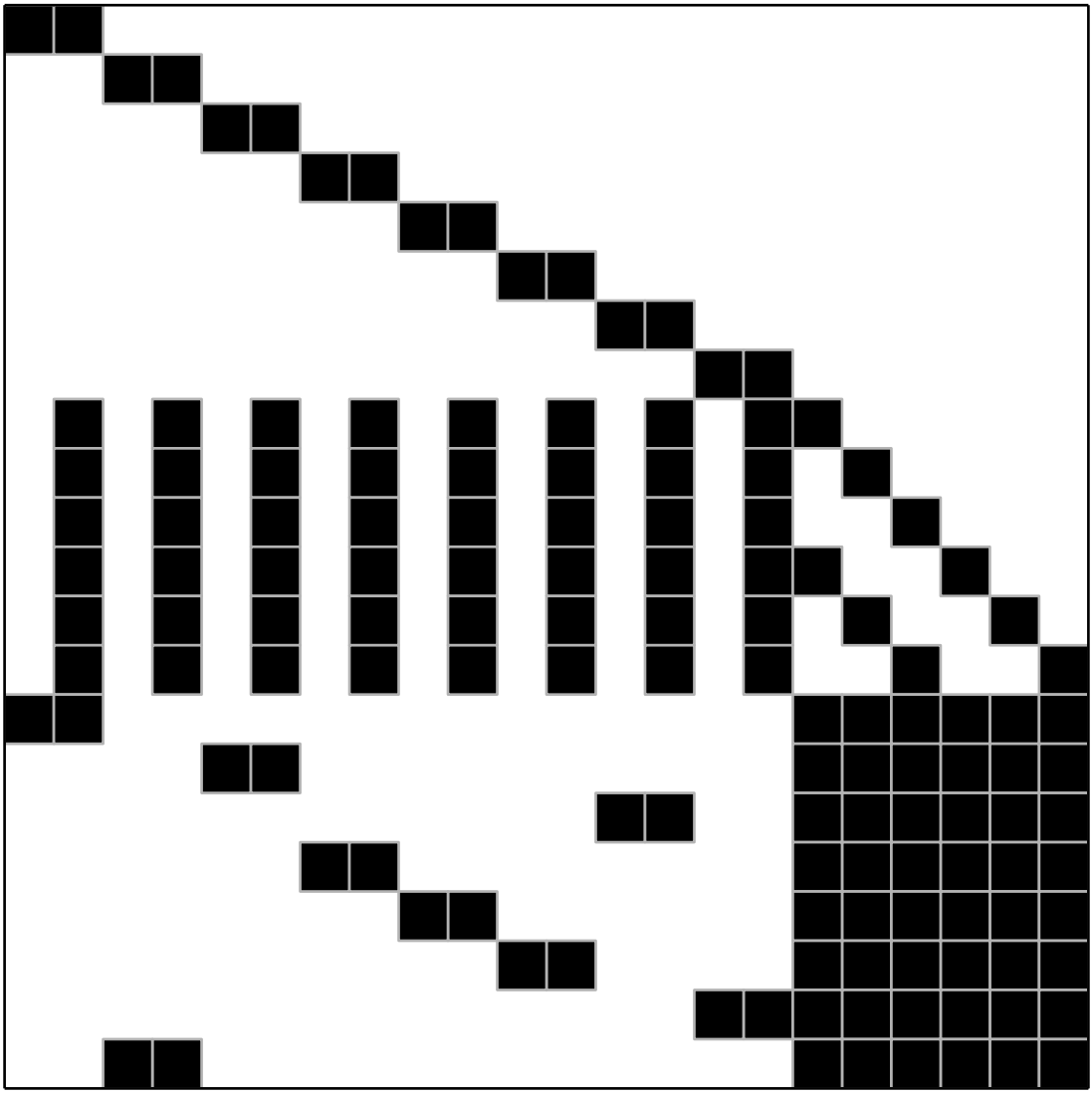


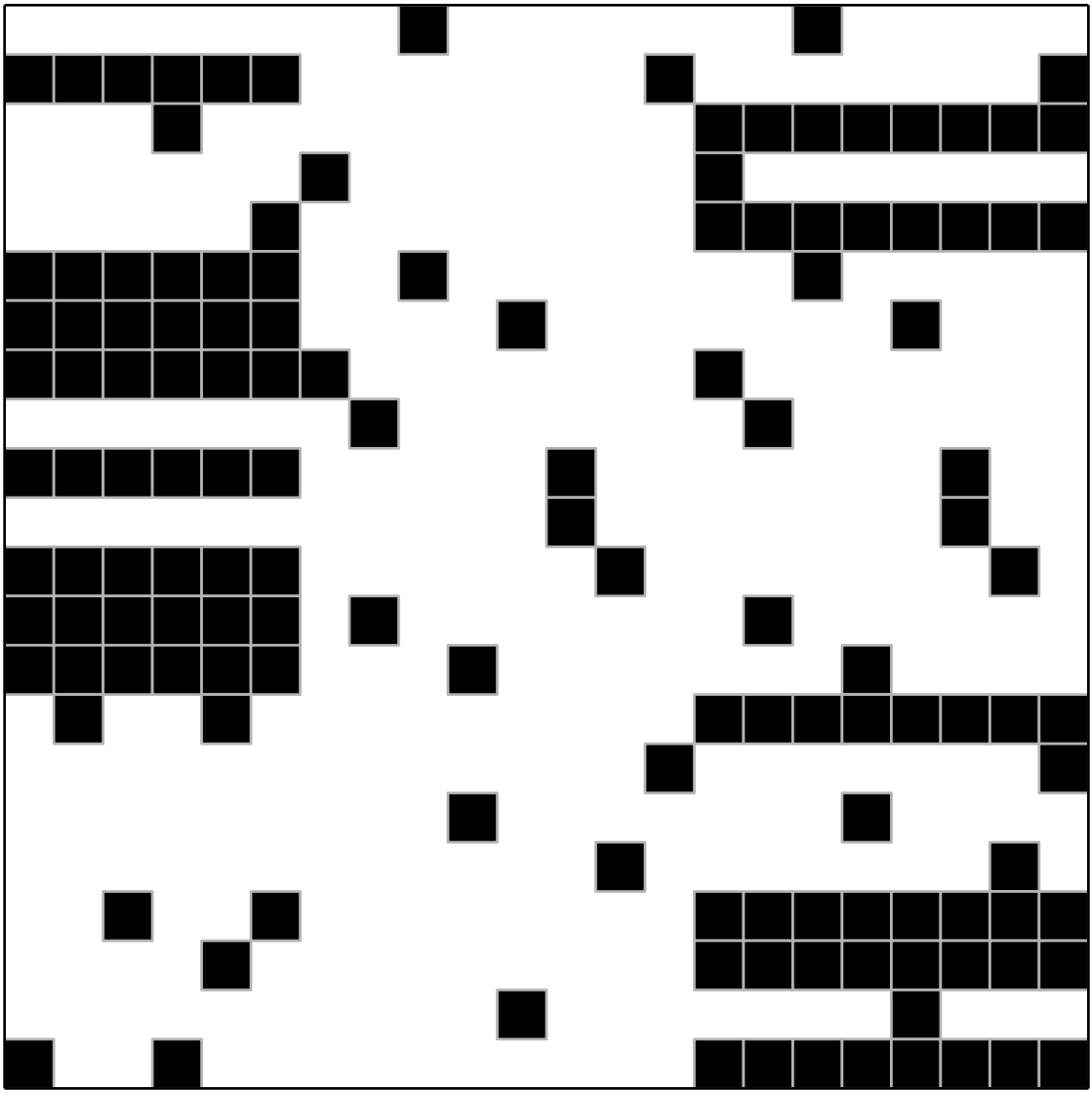
lib1_ex8_4_6-08 22x22 (137) con: 8, var: 14

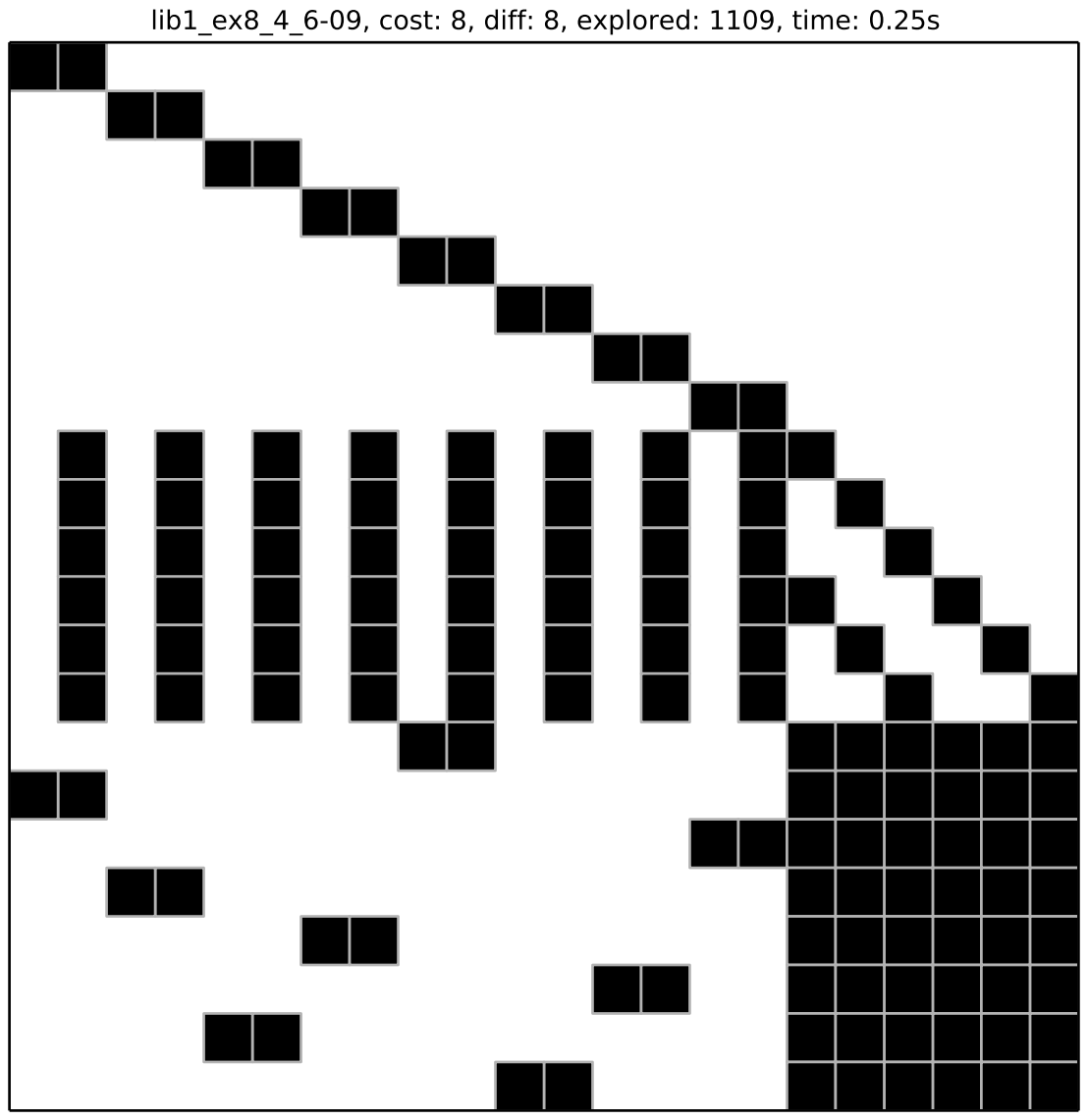


lib1_ex8_4_6-08, cost: 8, diff: 8, explored: 1109, time: 0.25s



lib1_ex8_4_6-09 22x22 (137) con: 8, var: 14

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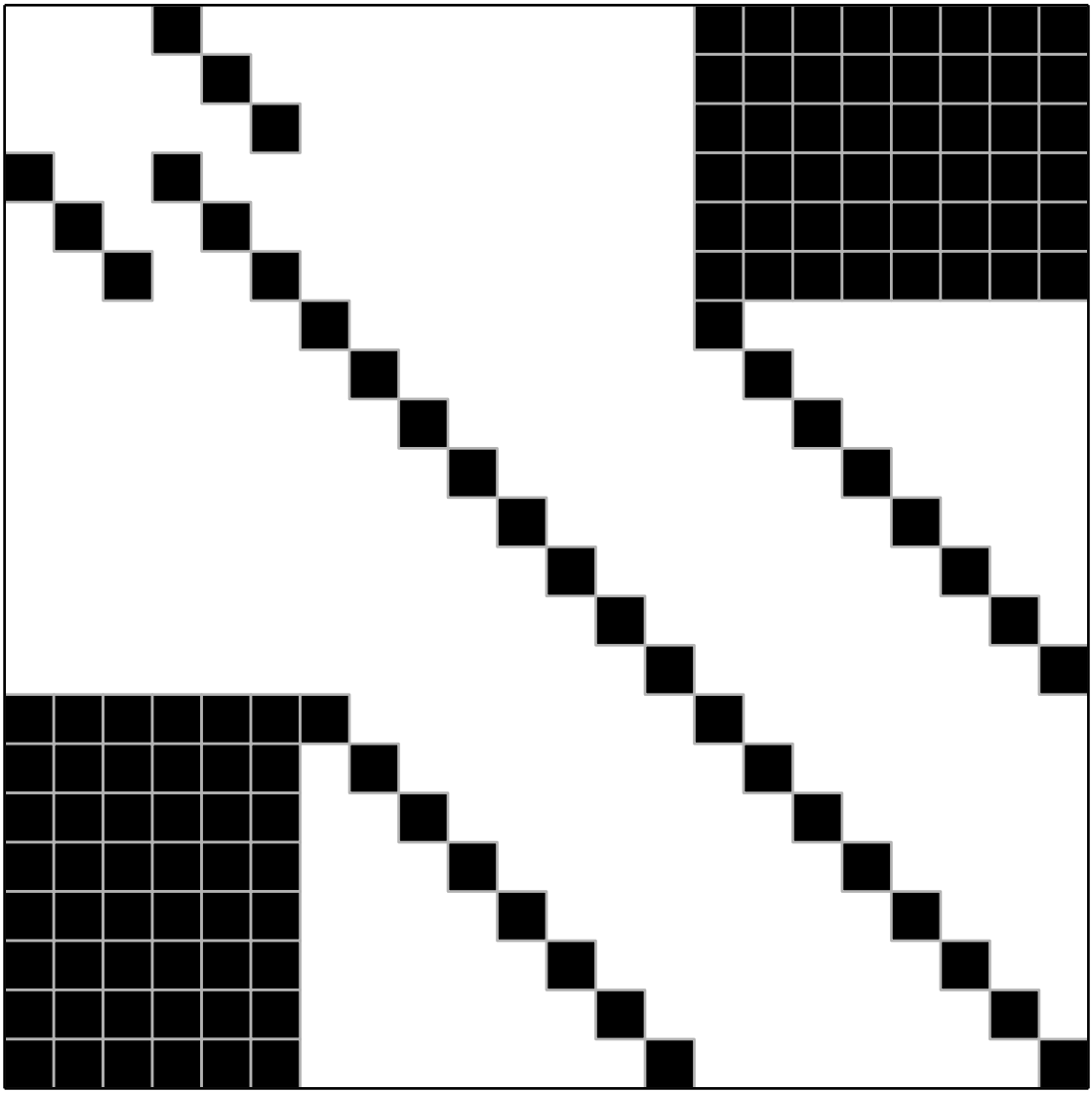
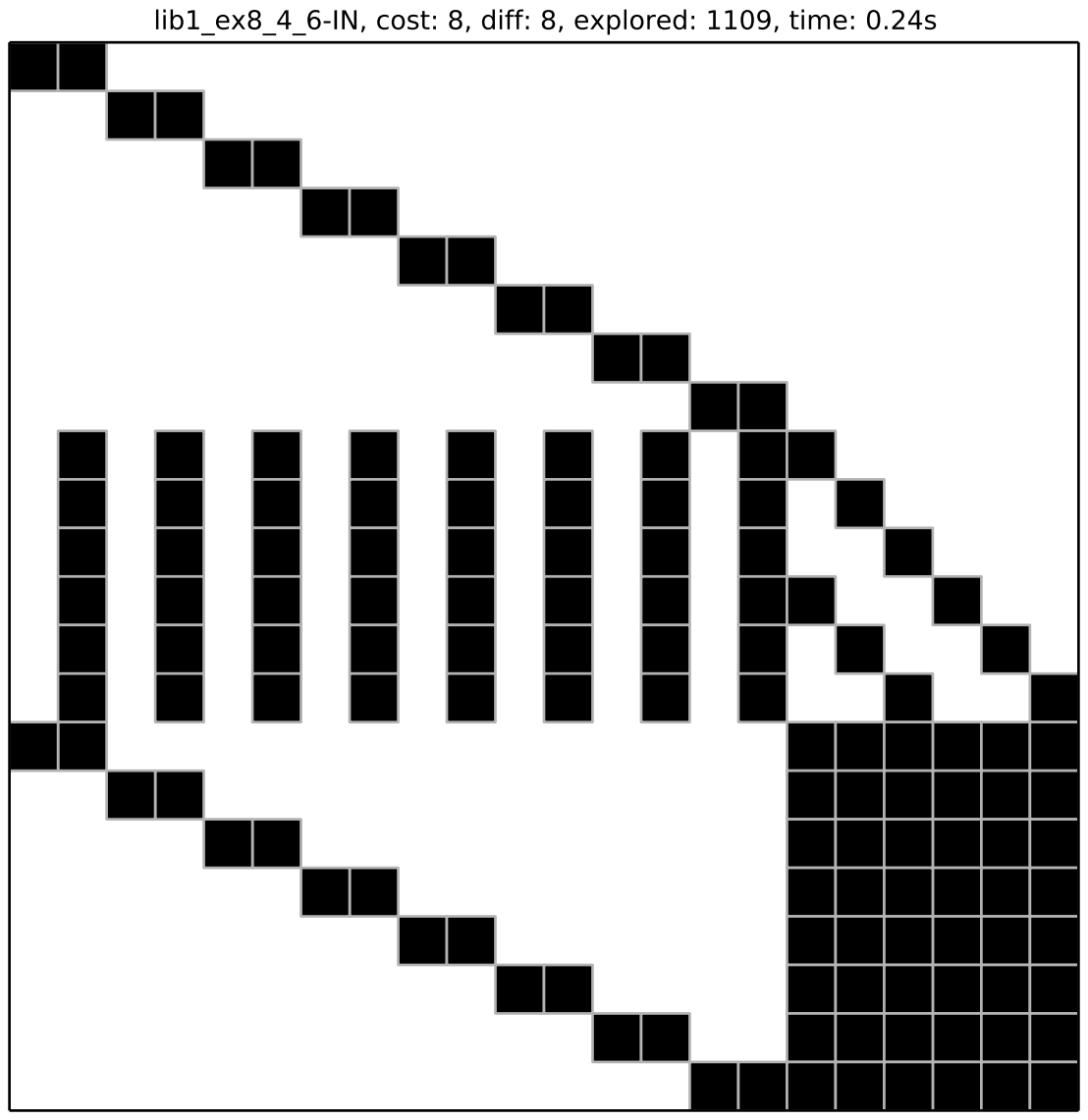
lib1_ex8_4_6-IN 22x22 (137) con: 8, var: 14

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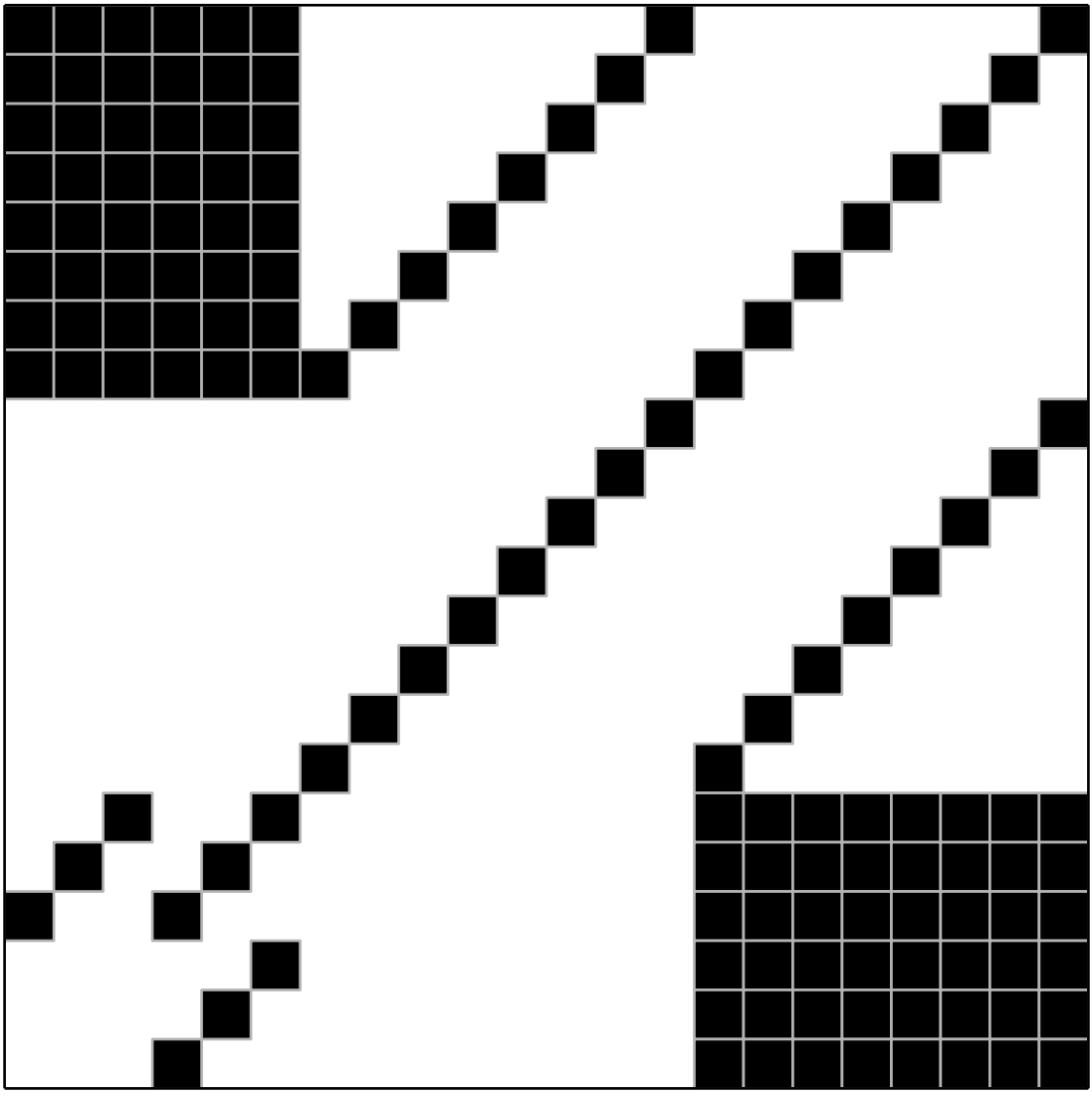
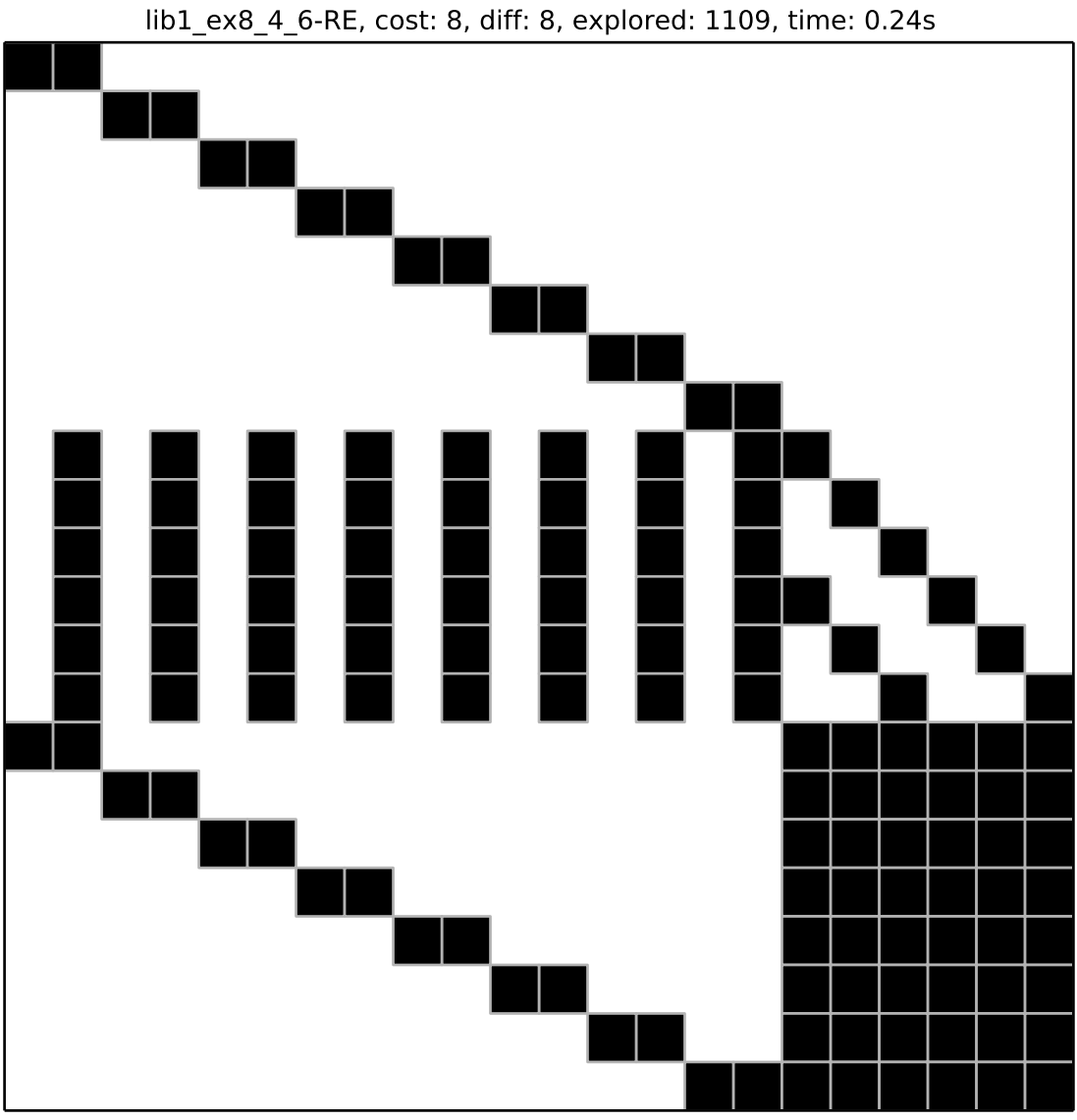
lib1_ex8_4_6-RE 22x22 (137) con: 8, var: 14

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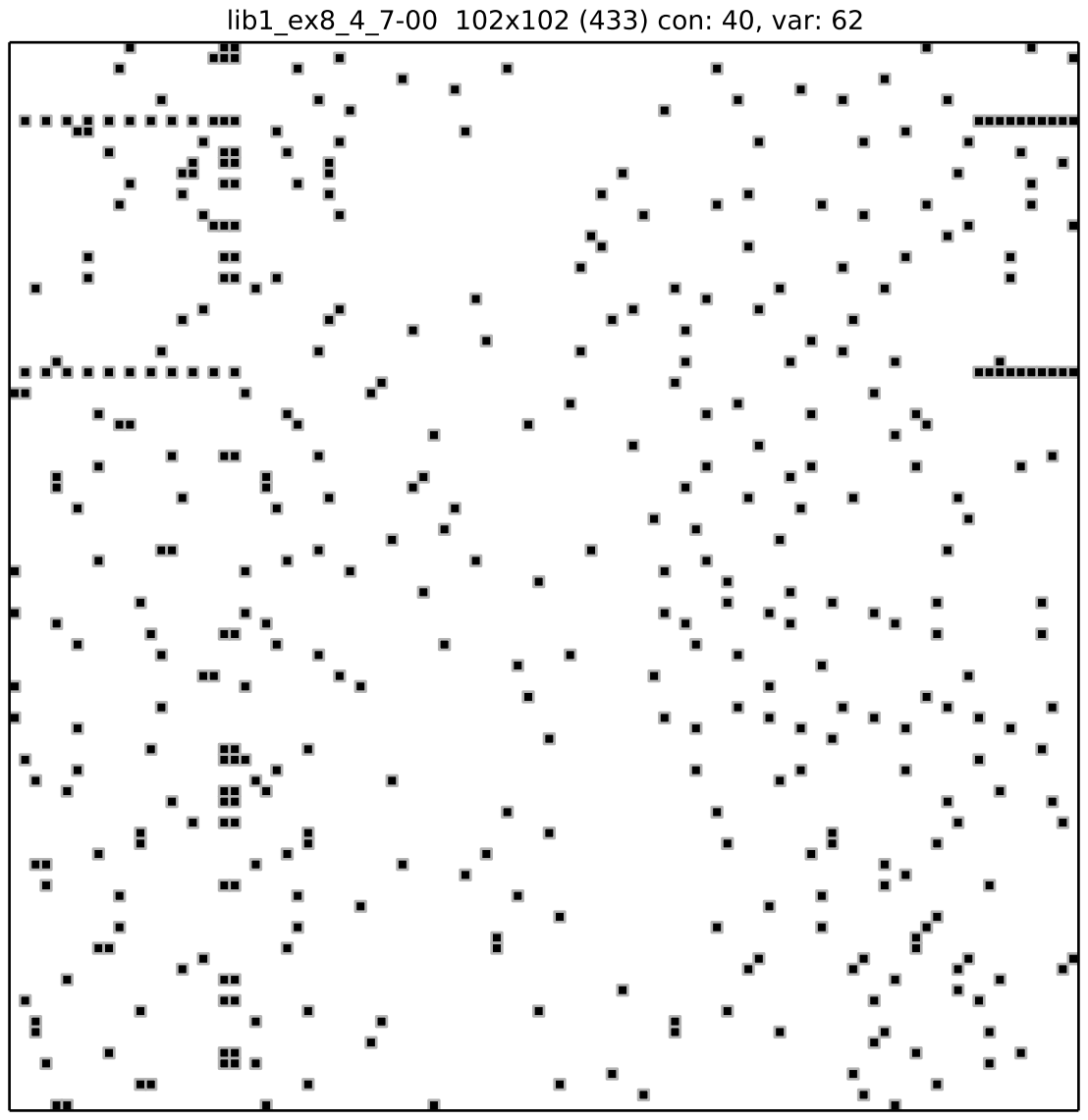
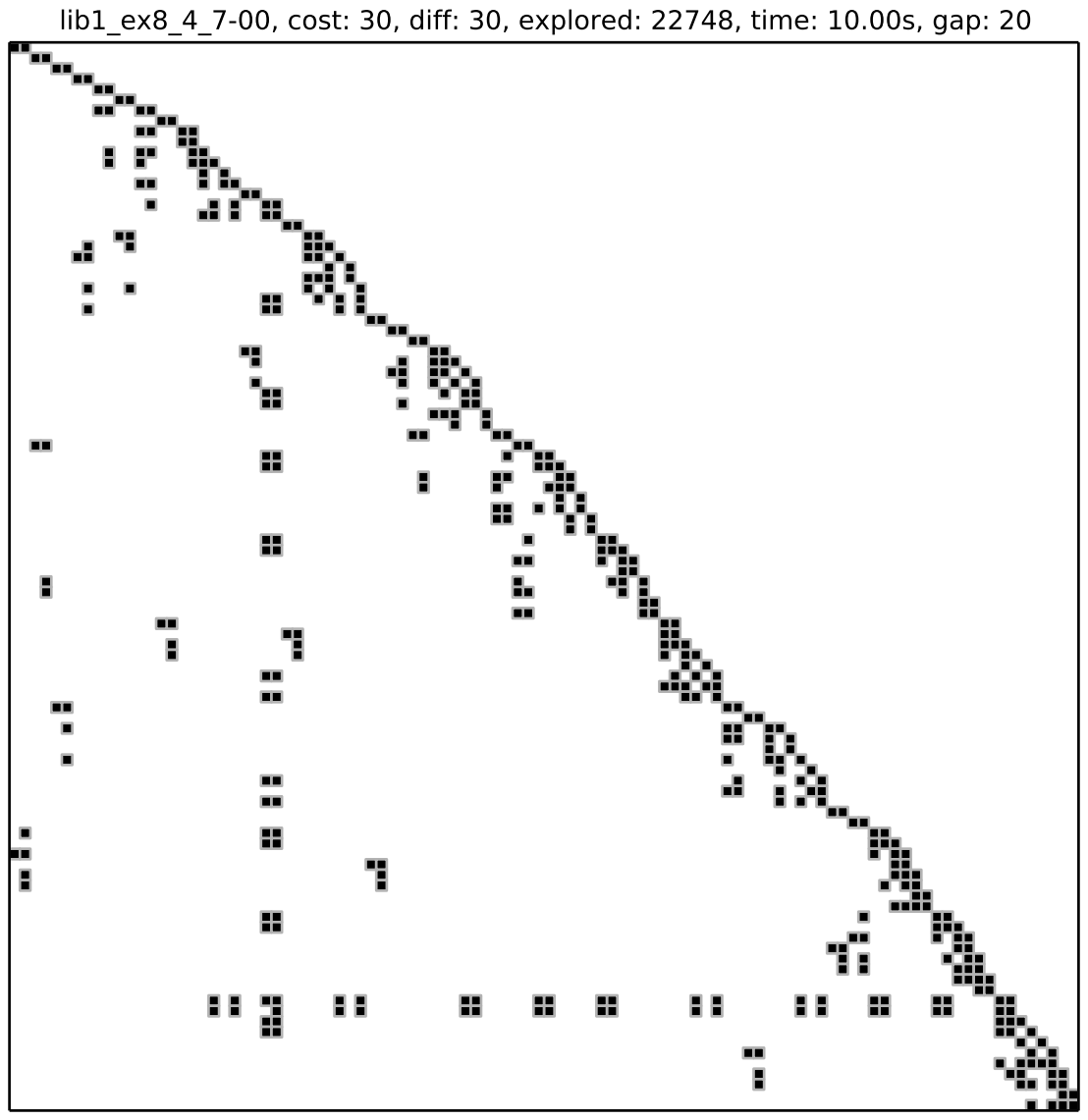
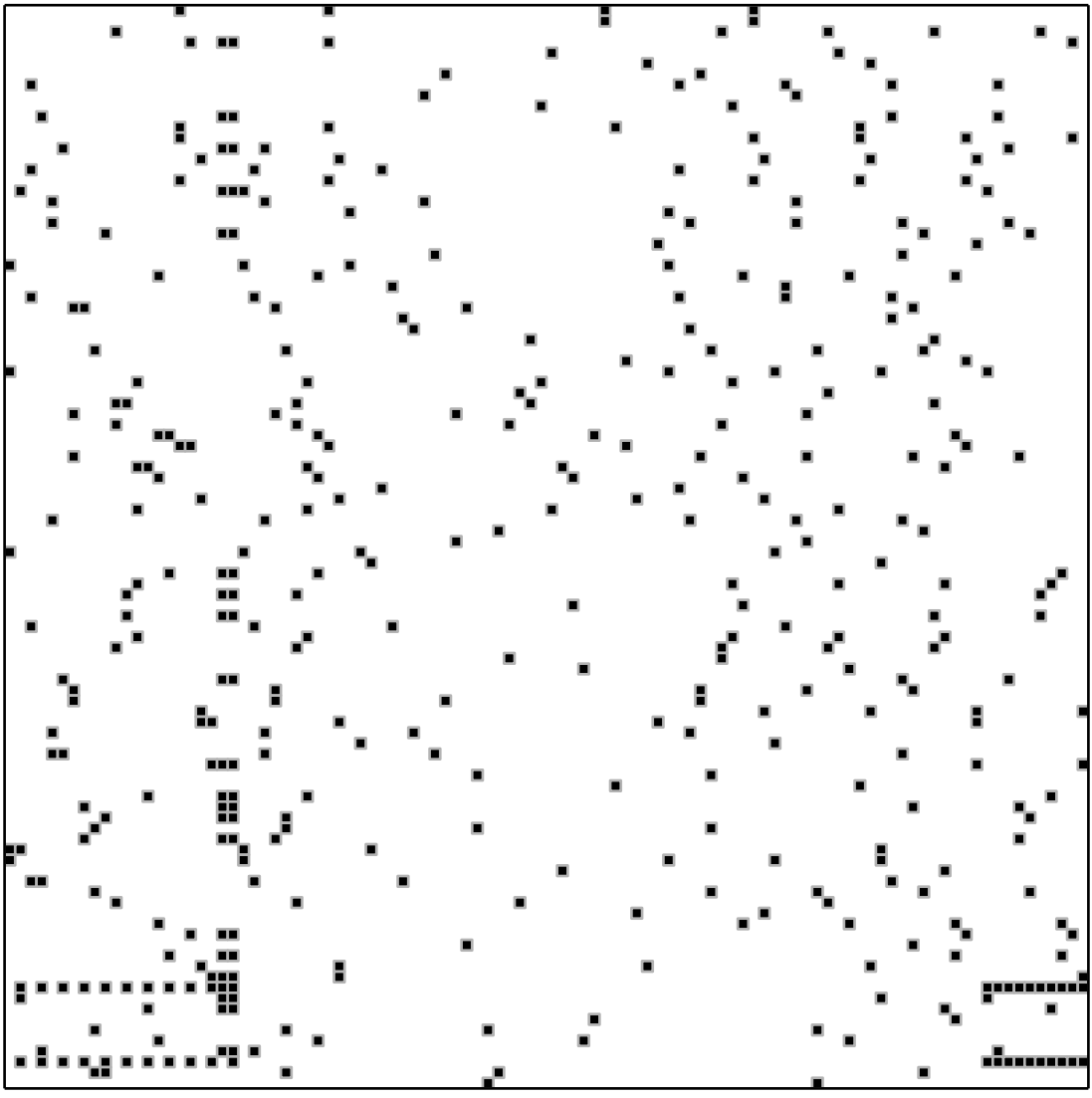
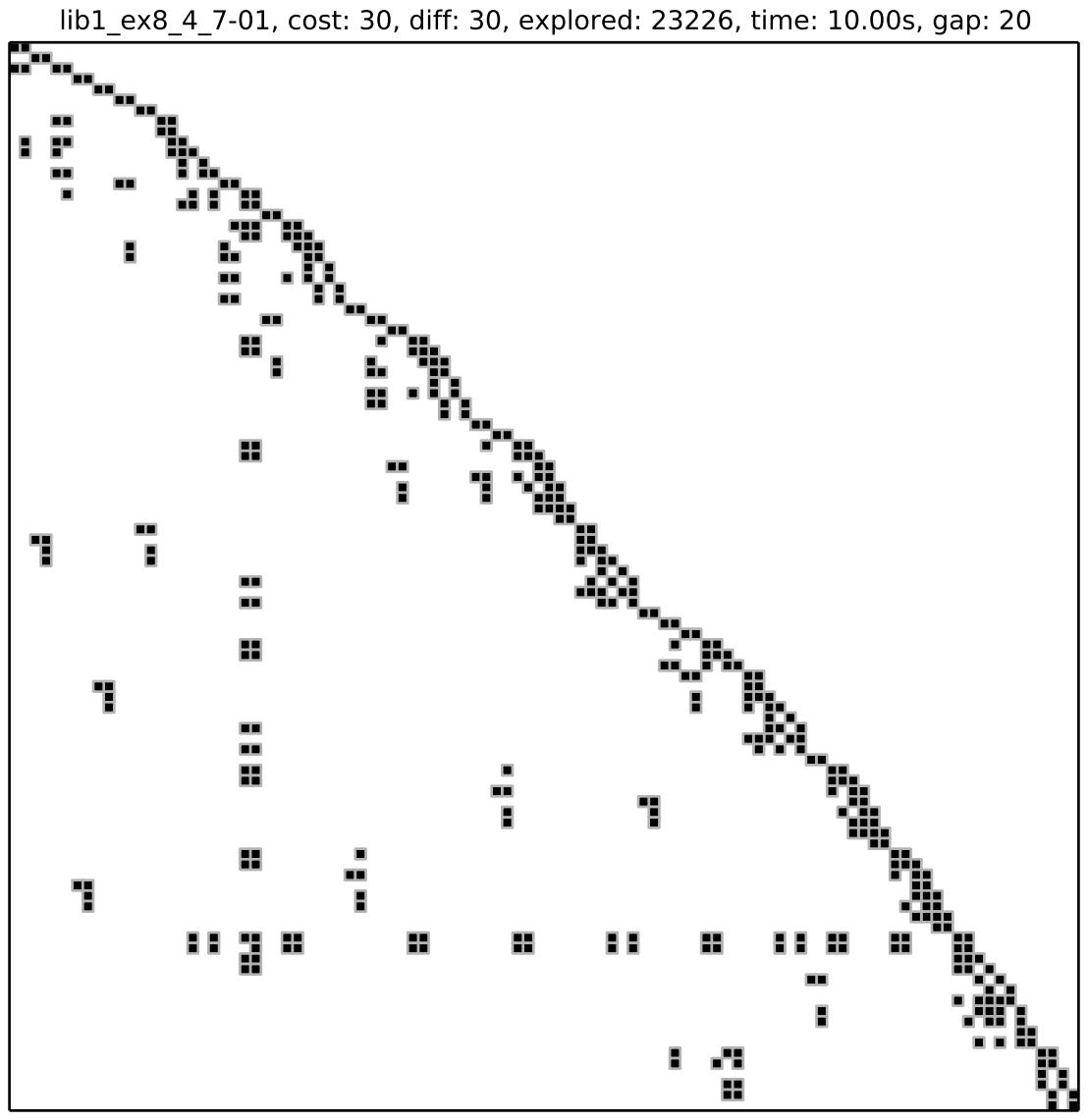

lib1_ex8_4_7-00 102x102 (433) con: 40, var: 62


lib1_ex8_4_7-00, cost: 30, diff: 30, explored: 22748, time: 10.00s, gap: 20

lib1_ex8_4_7-01 102x102 (433) con: 40, var: 62

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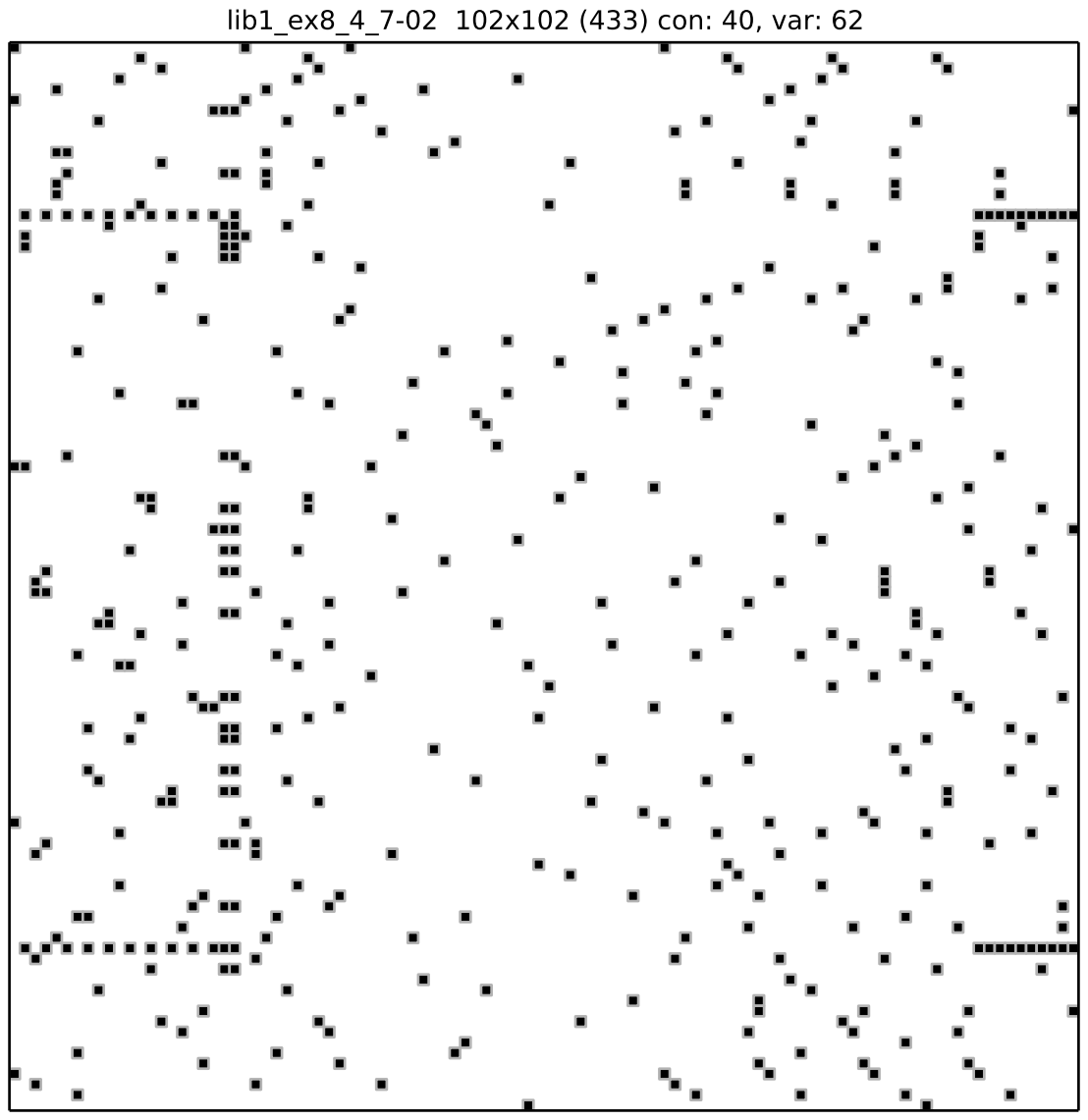
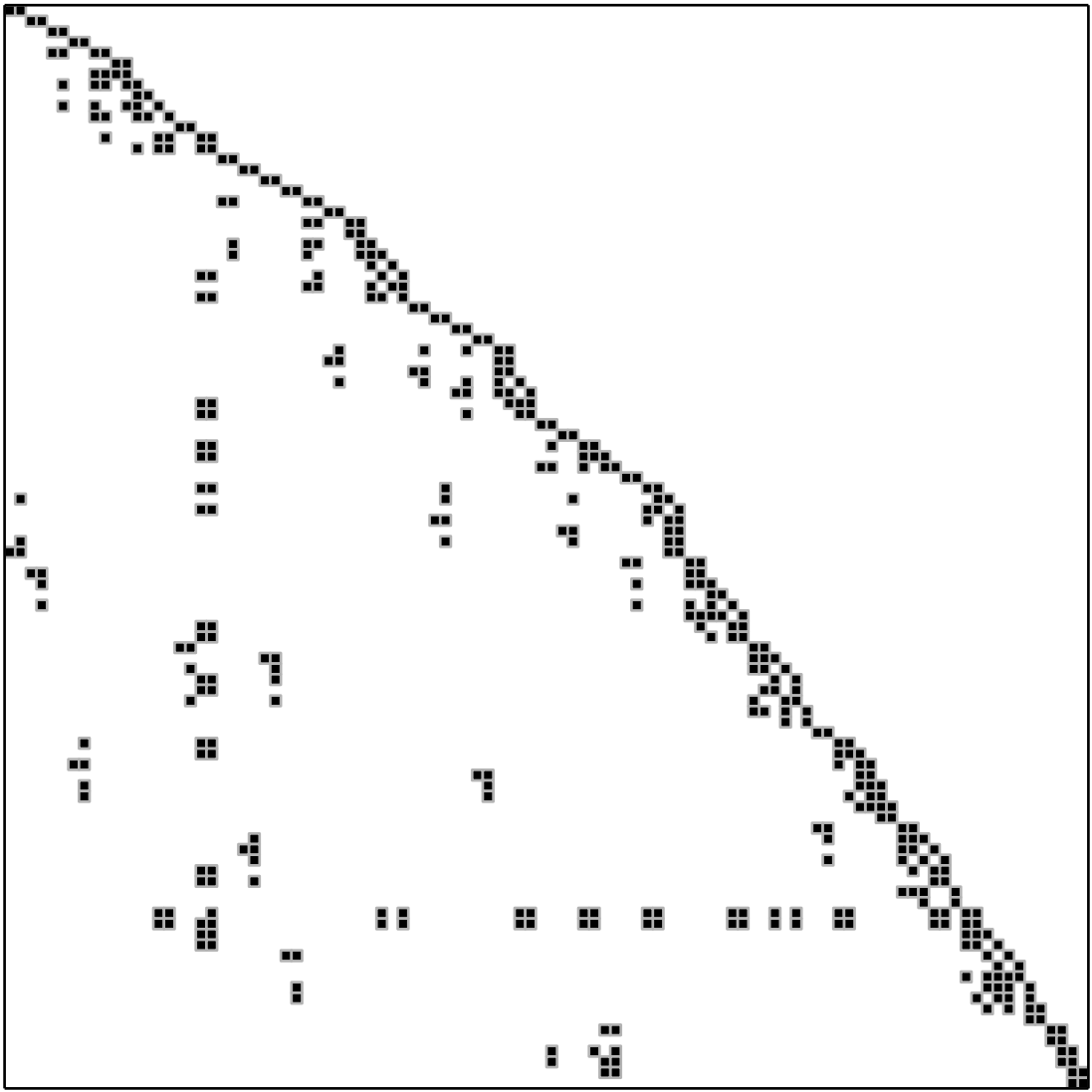
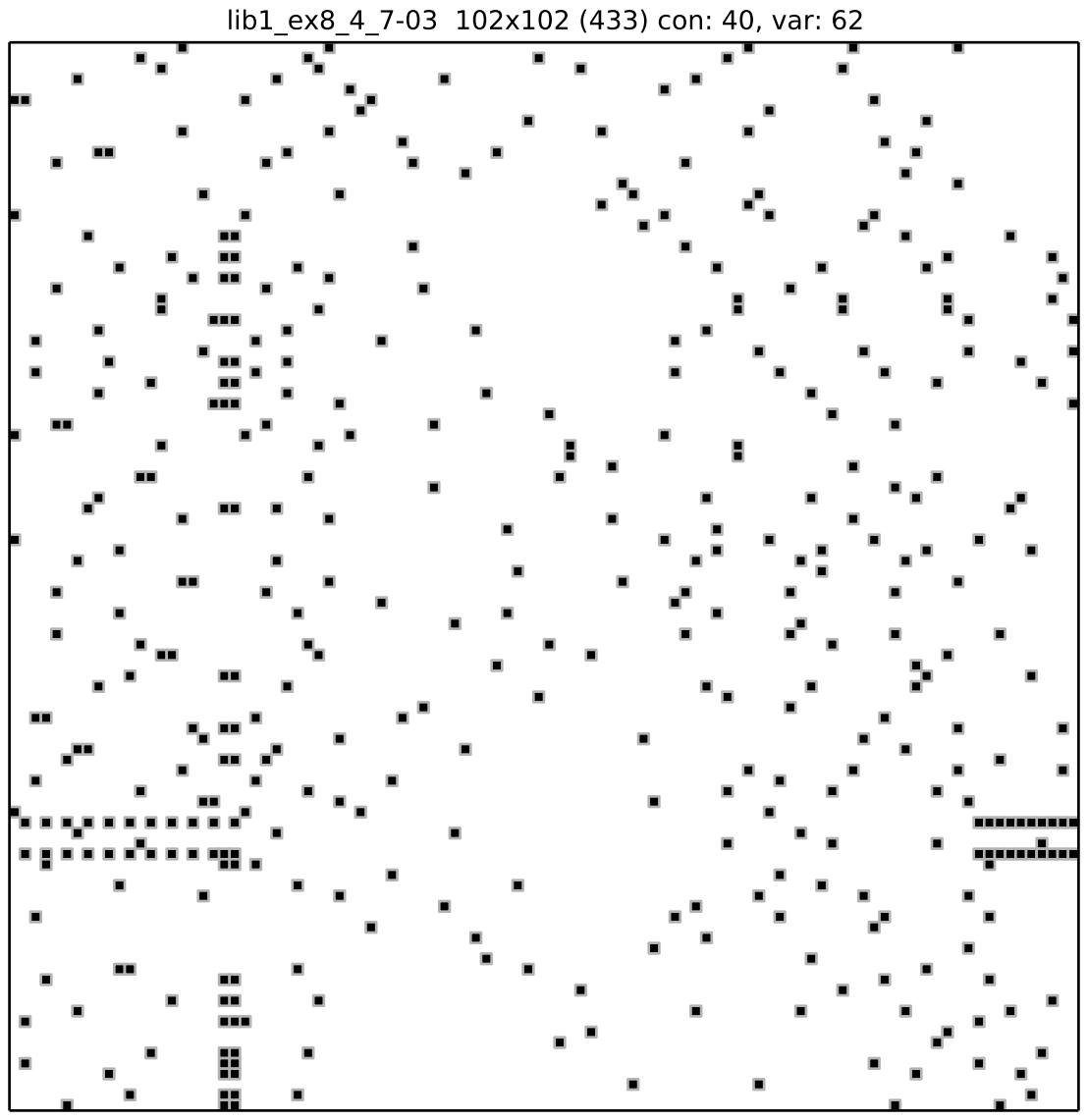

lib1_ex8_4_7-02 102x102 (433) con: 40, var: 62

lib1_ex8_4_7-02, cost: 32, diff: 32, explored: 20096, time: 10.00s, gap: 22

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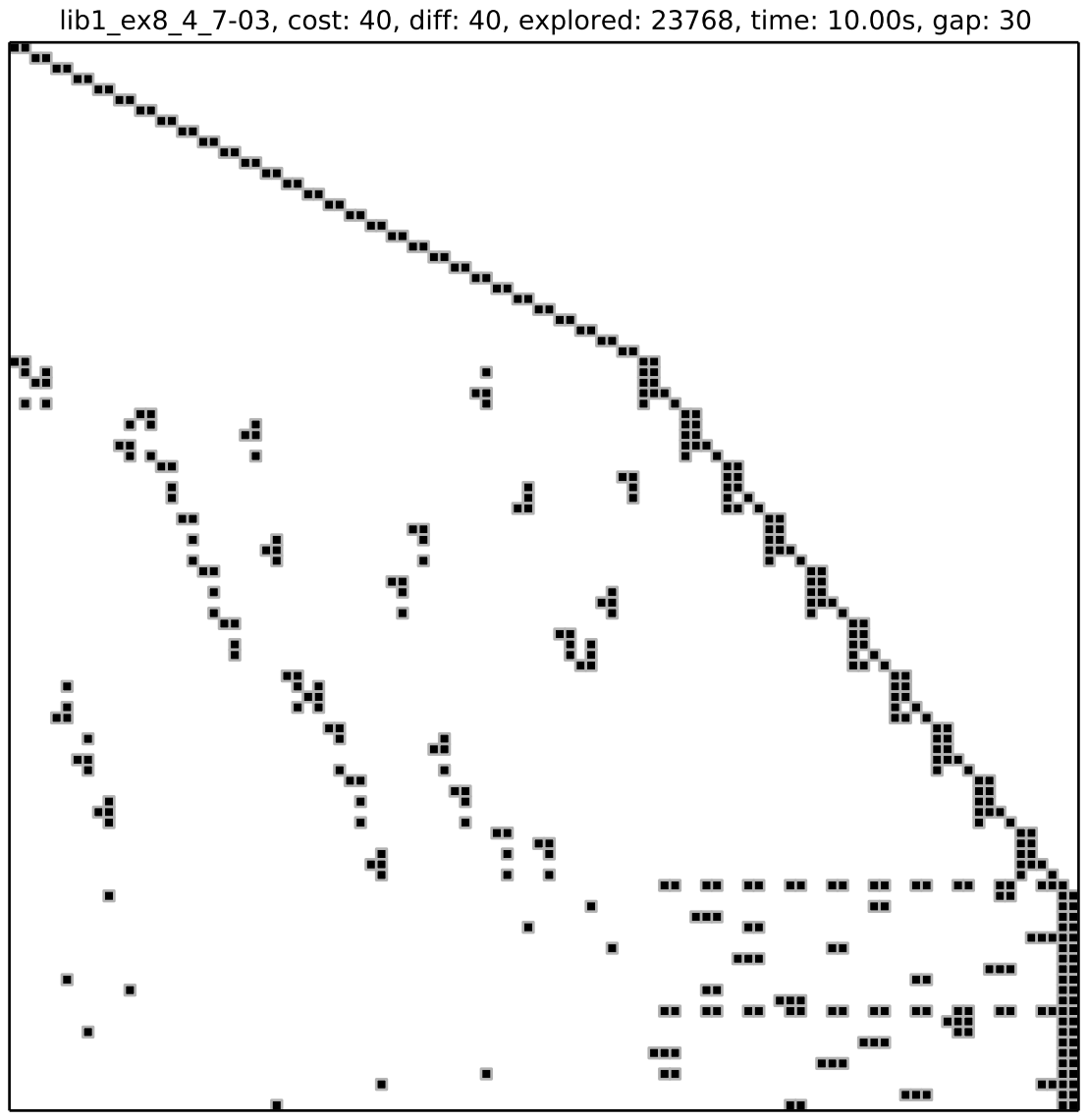
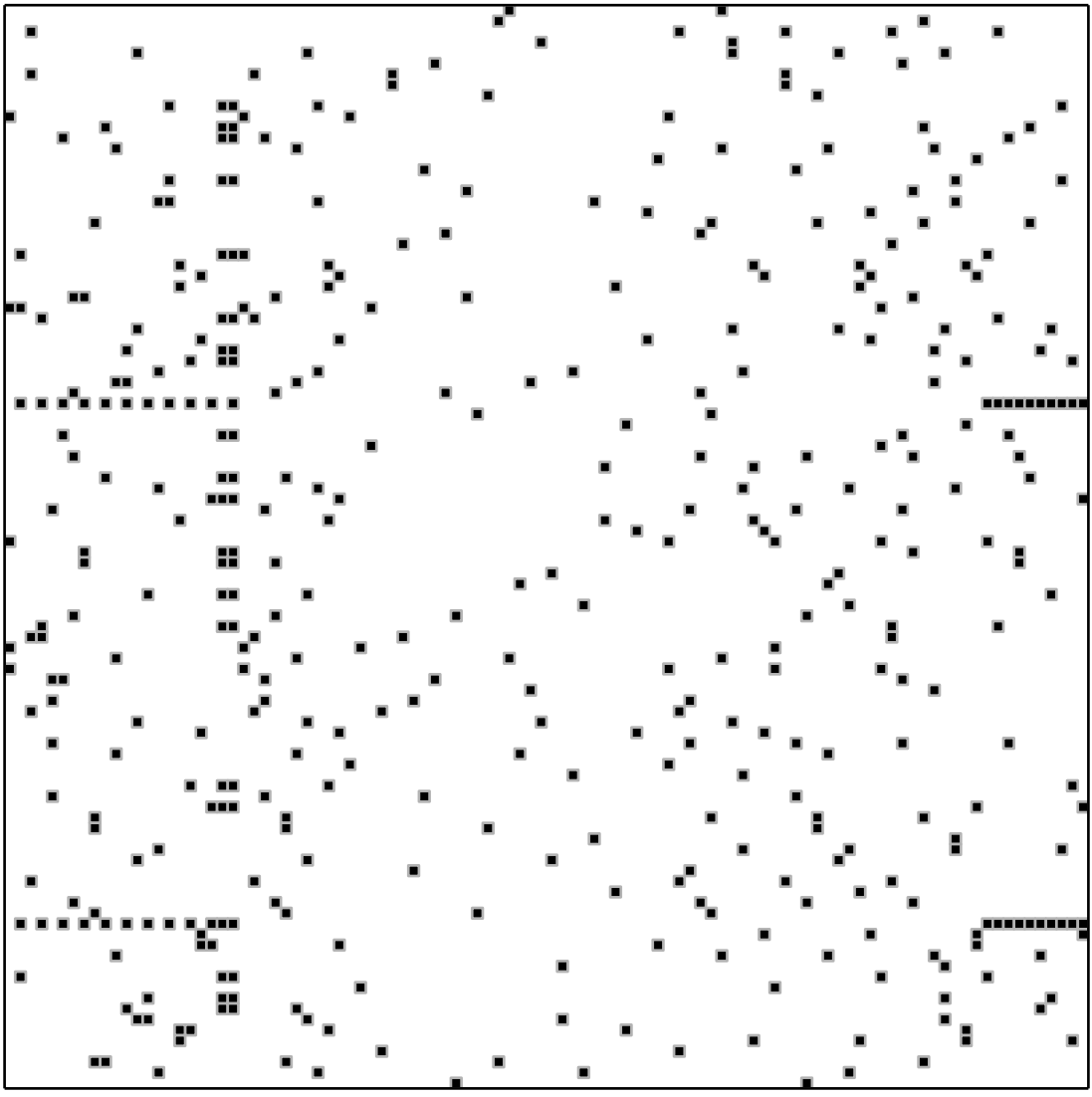
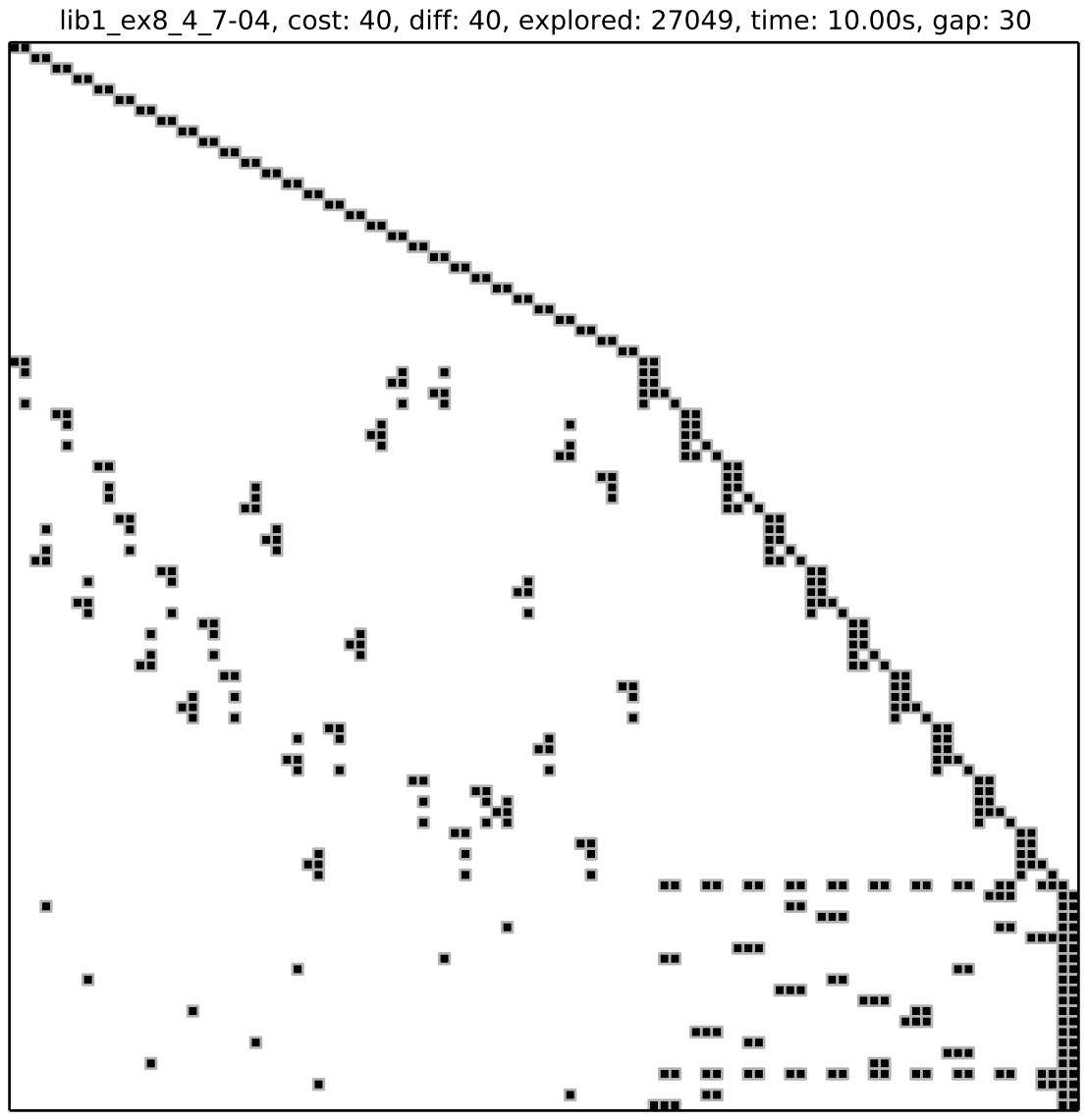
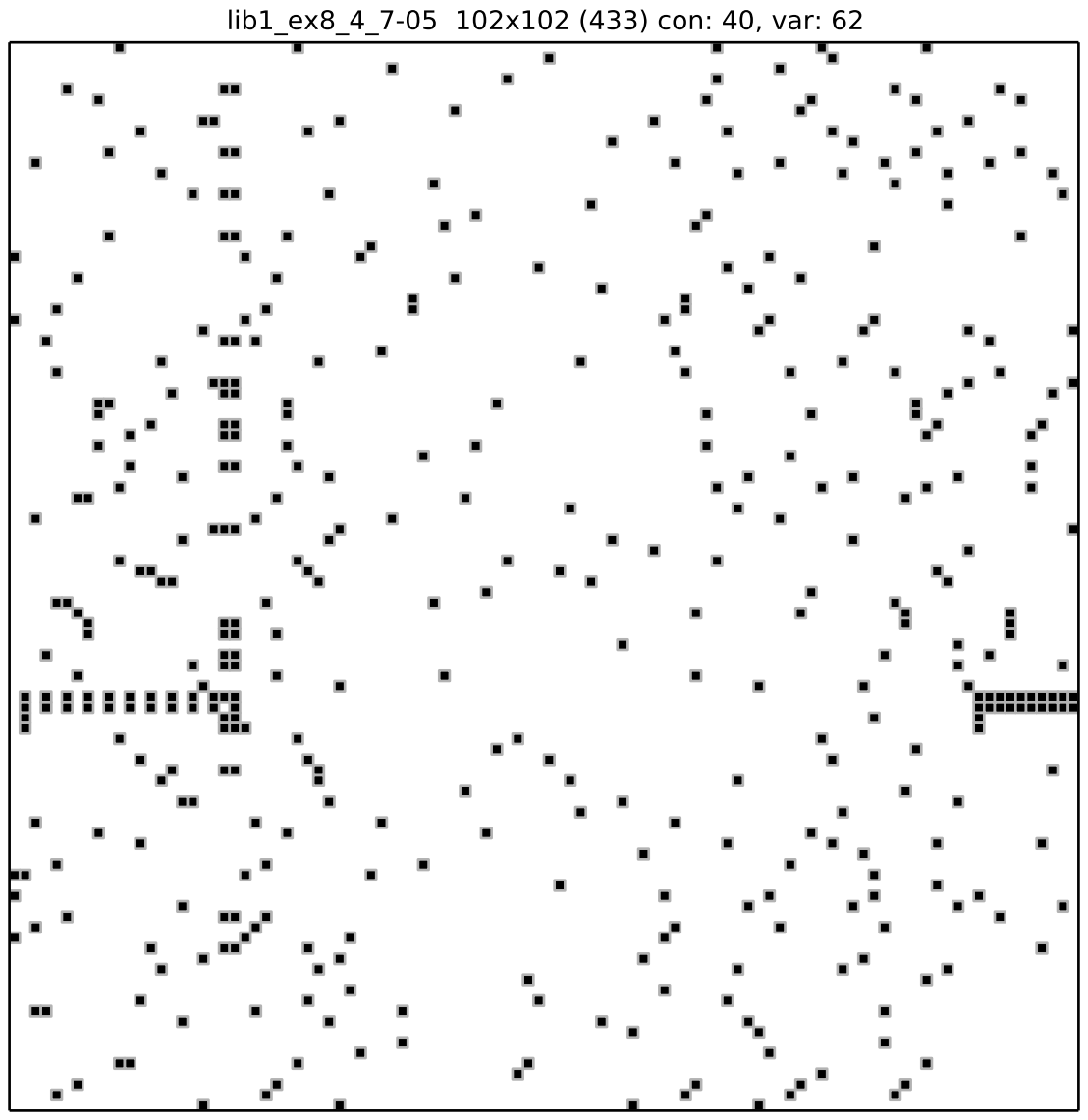

lib1_ex8_4_7-03, cost: 40, diff: 40, explored: 23768, time: 10.00s, gap: 30

lib1_ex8_4_7-04 102x102 (433) con: 40, var: 62




lib1_ex8_4_7-04, cost: 40, diff: 40, explored: 27049, time: 10.00s, gap: 30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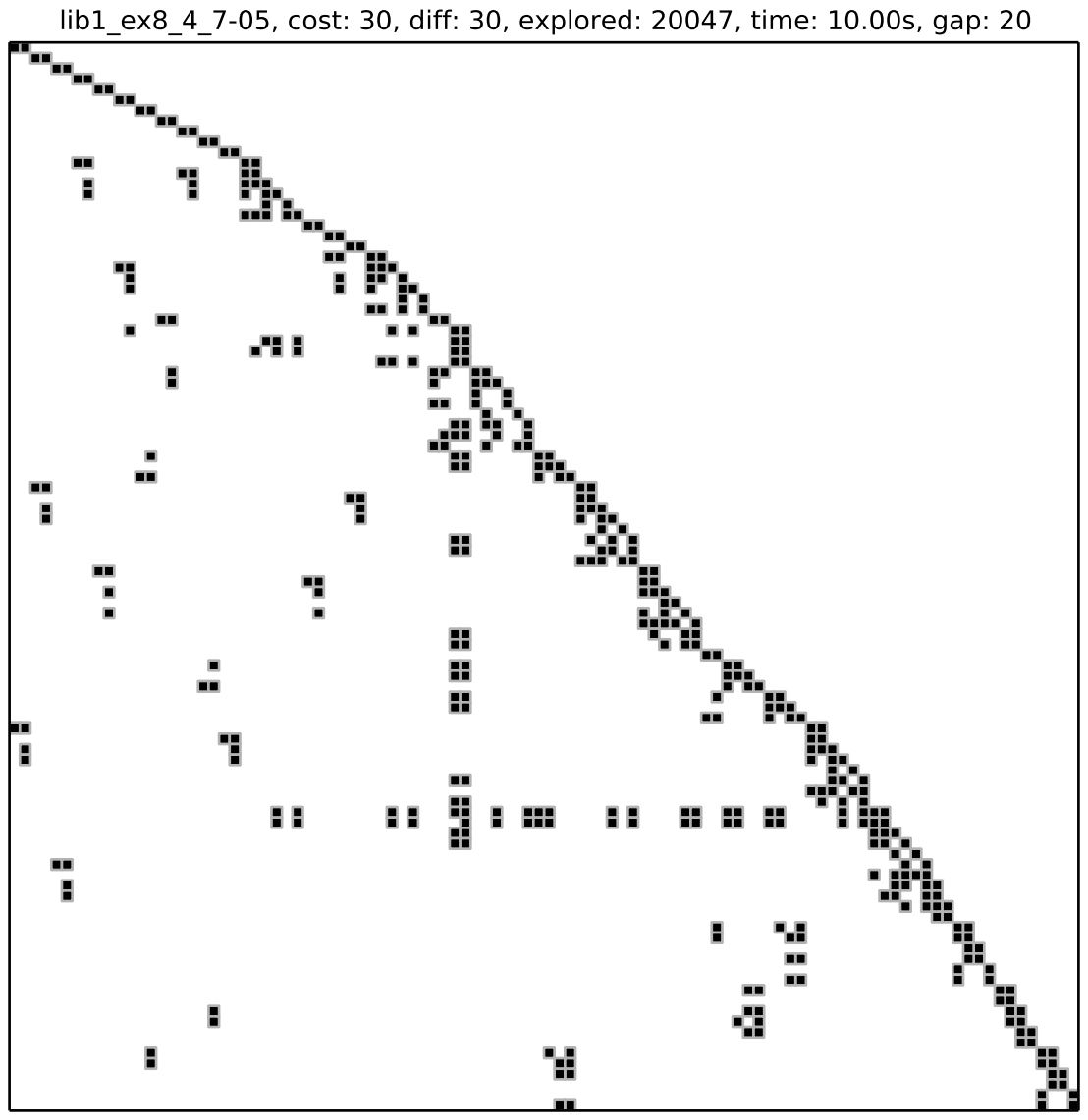
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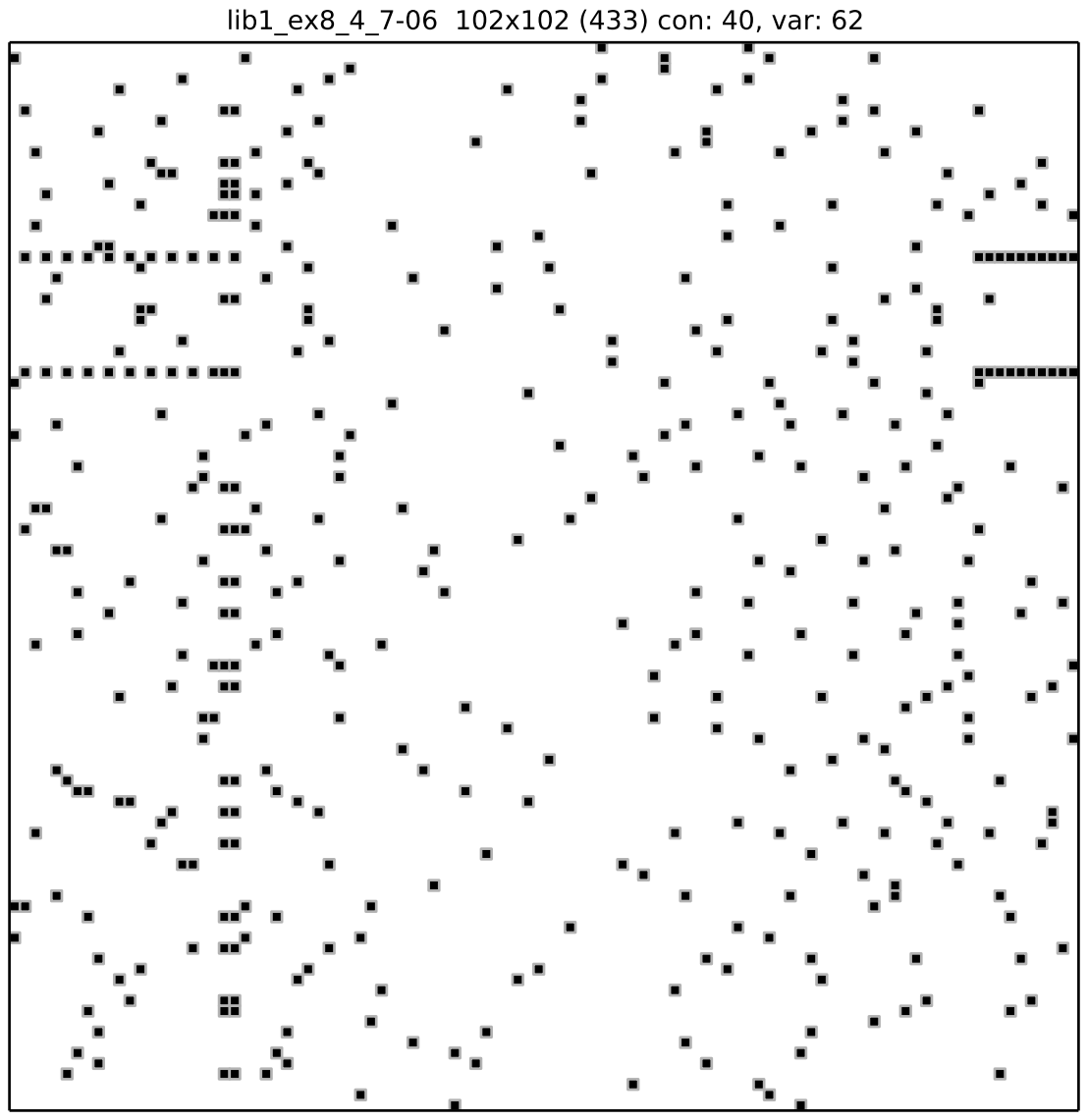
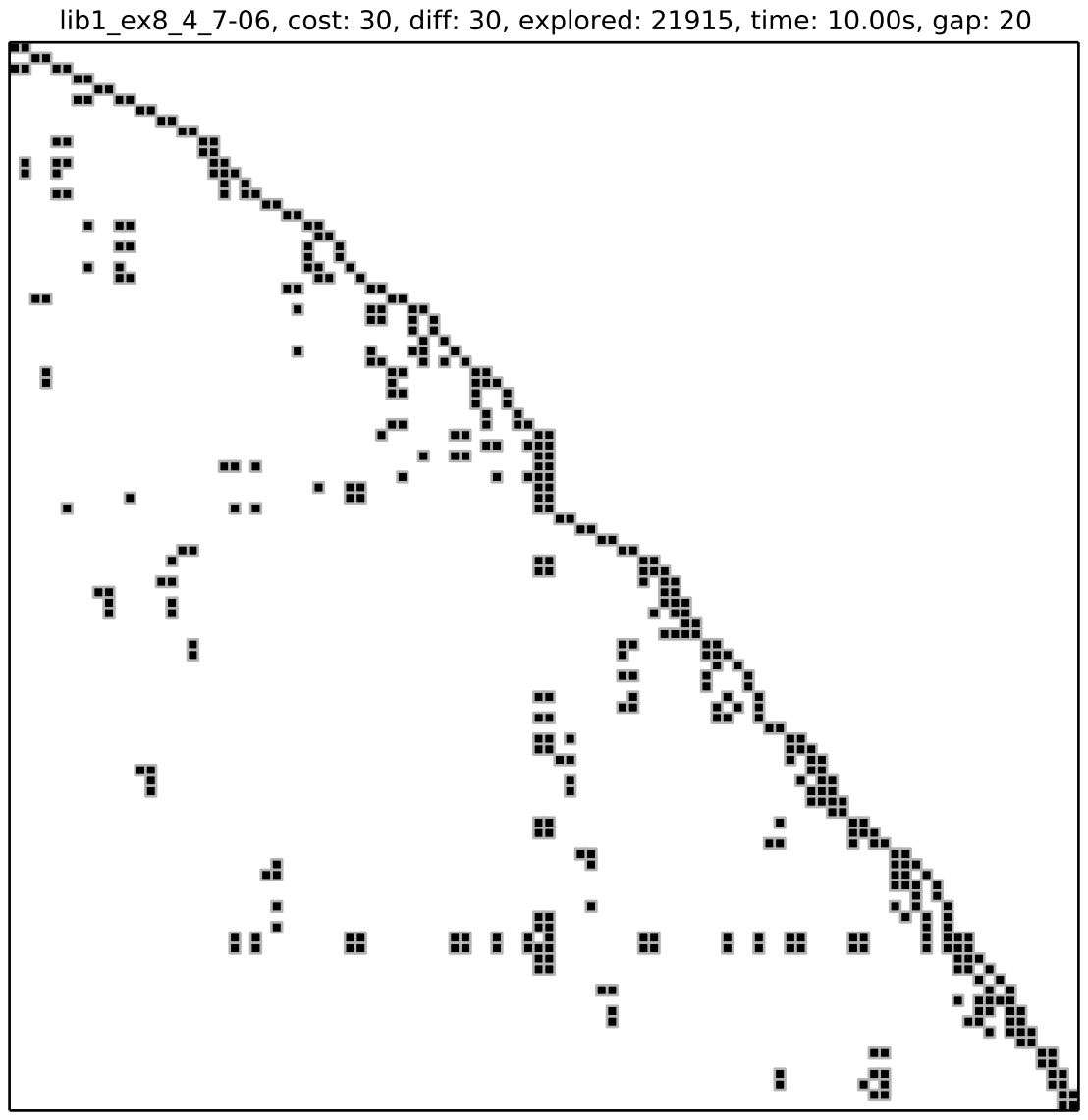

lib1_ex8_4_7-06 102x102 (433) con: 40, var: 62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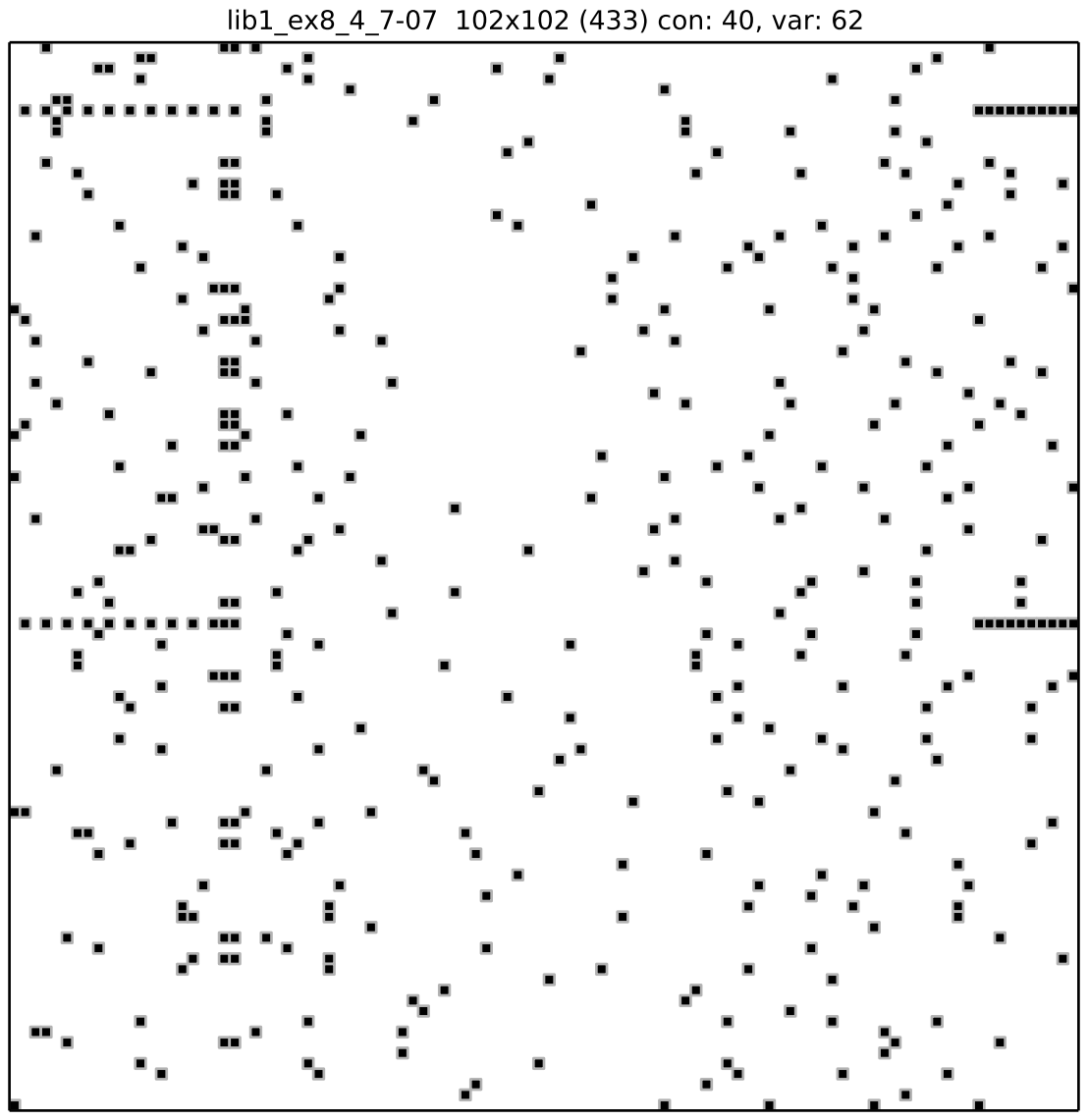
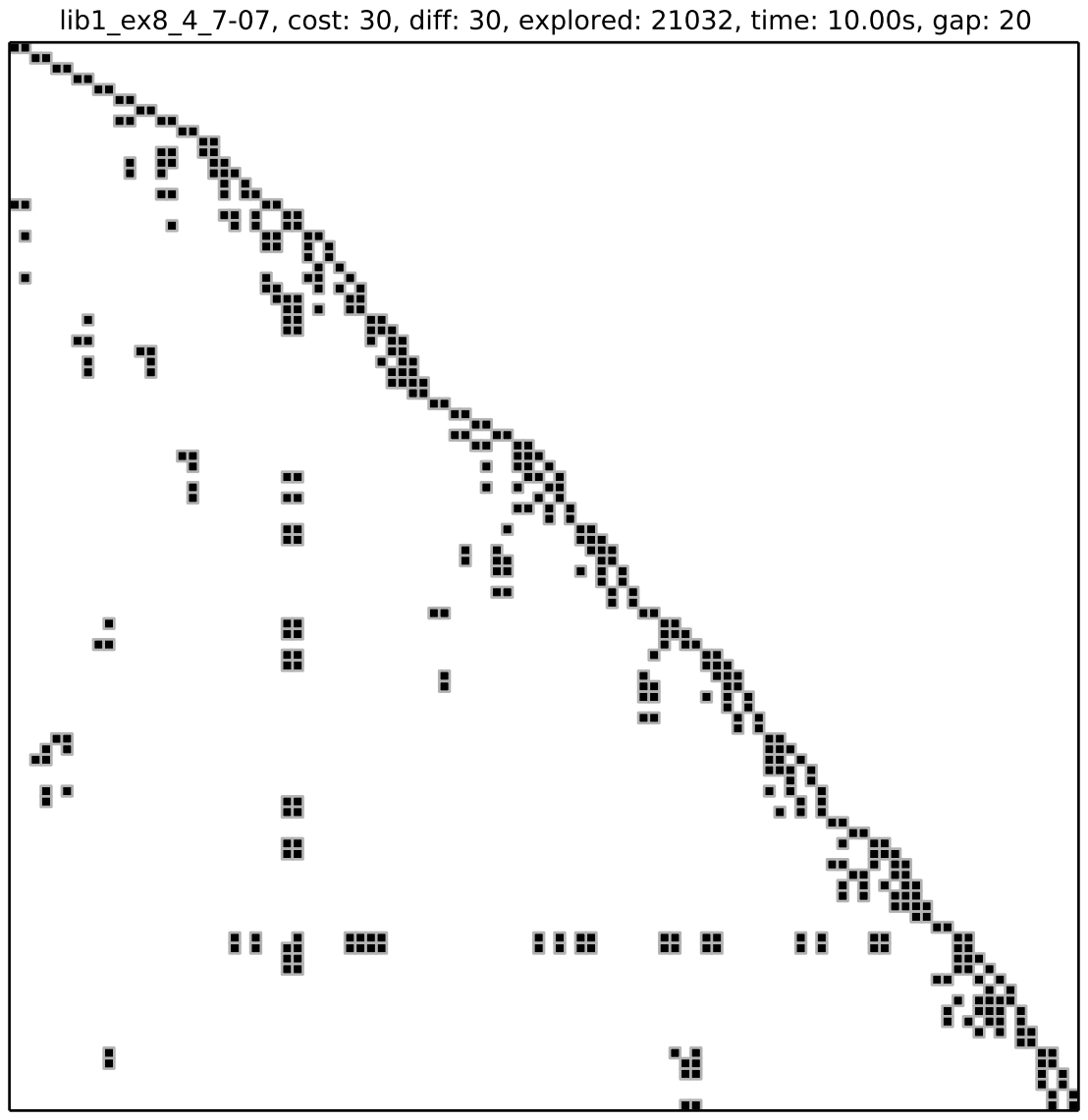

lib1_ex8_4_7-07 102x102 (433) con: 40, var: 62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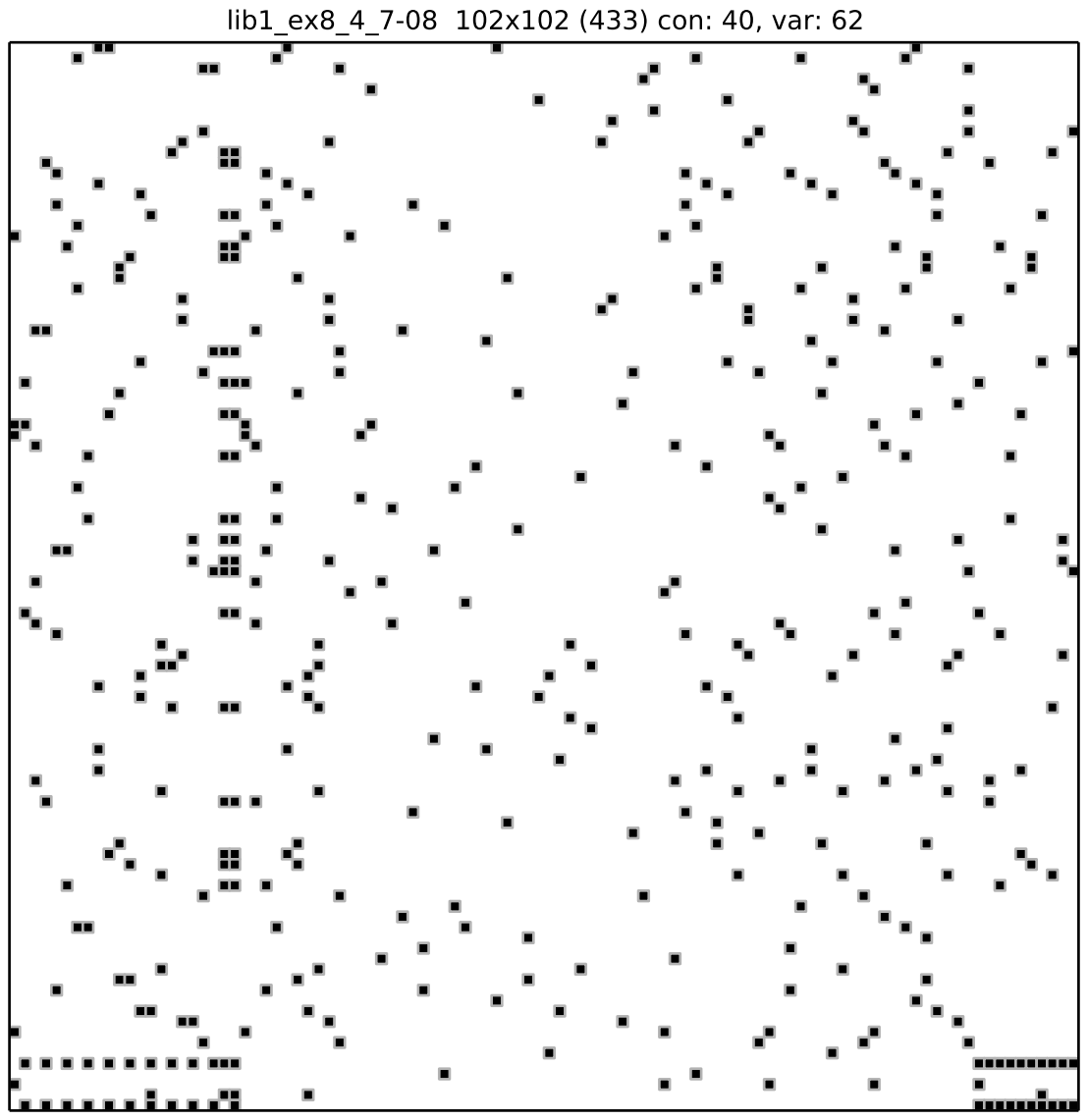
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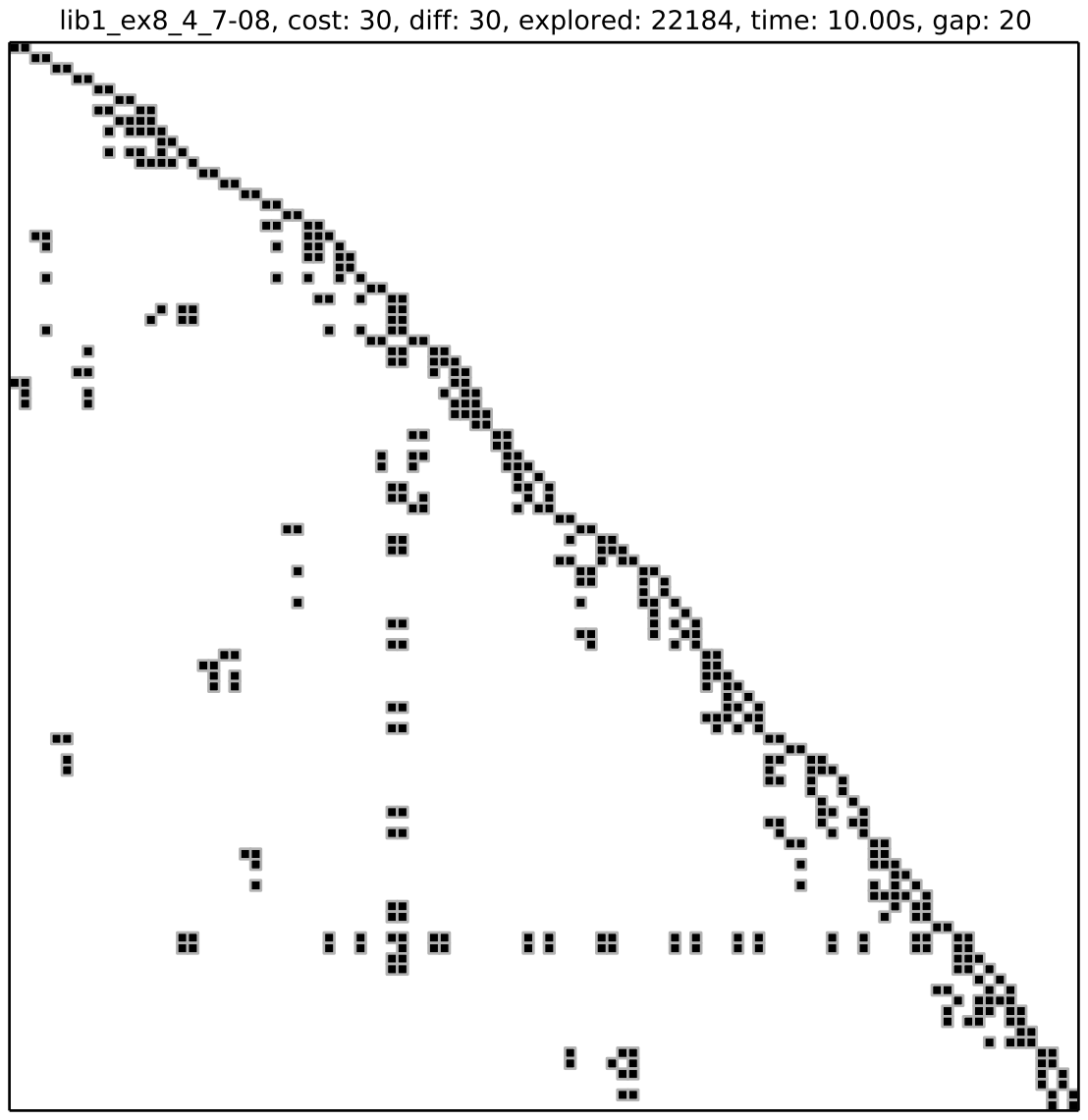
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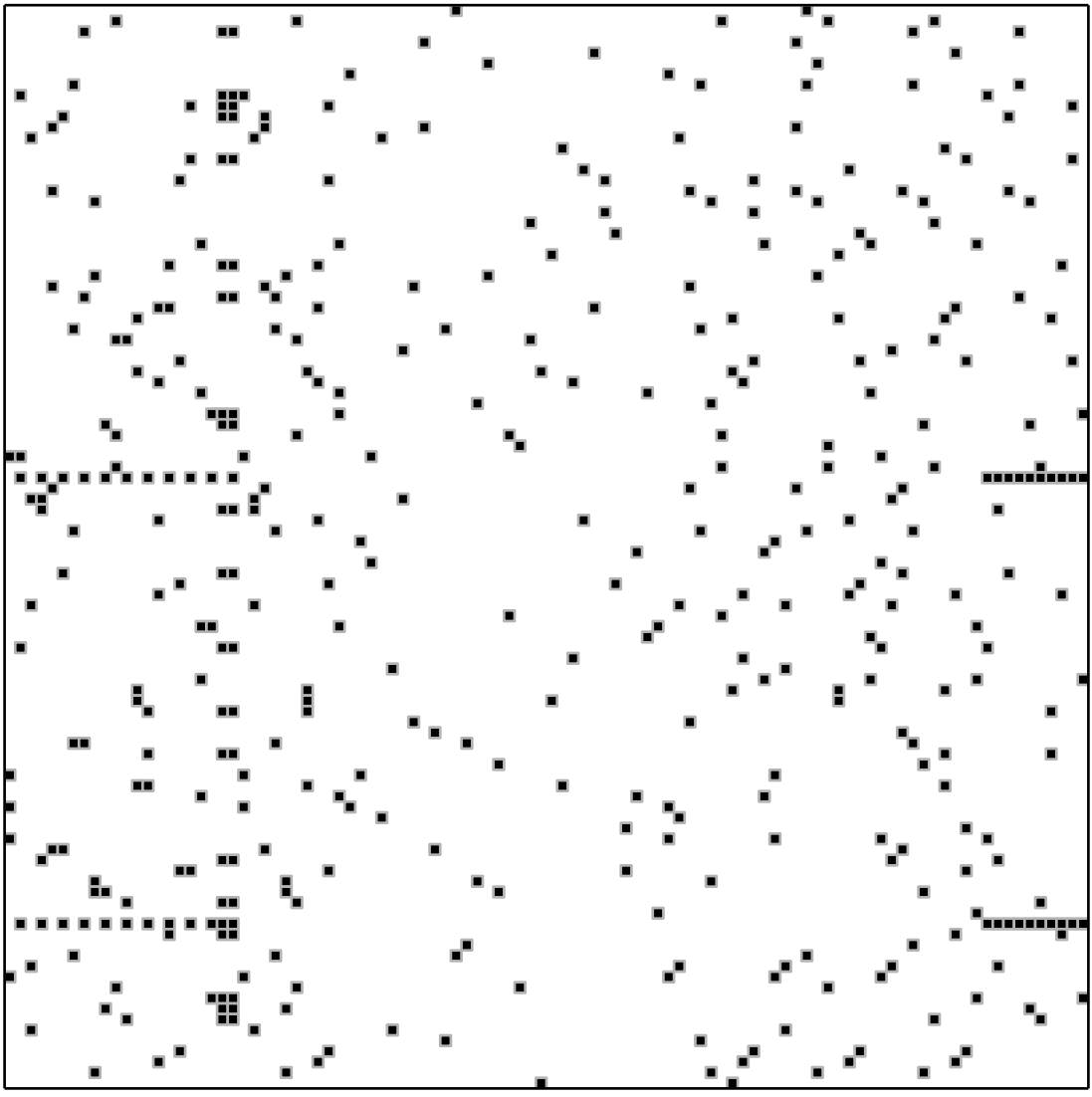
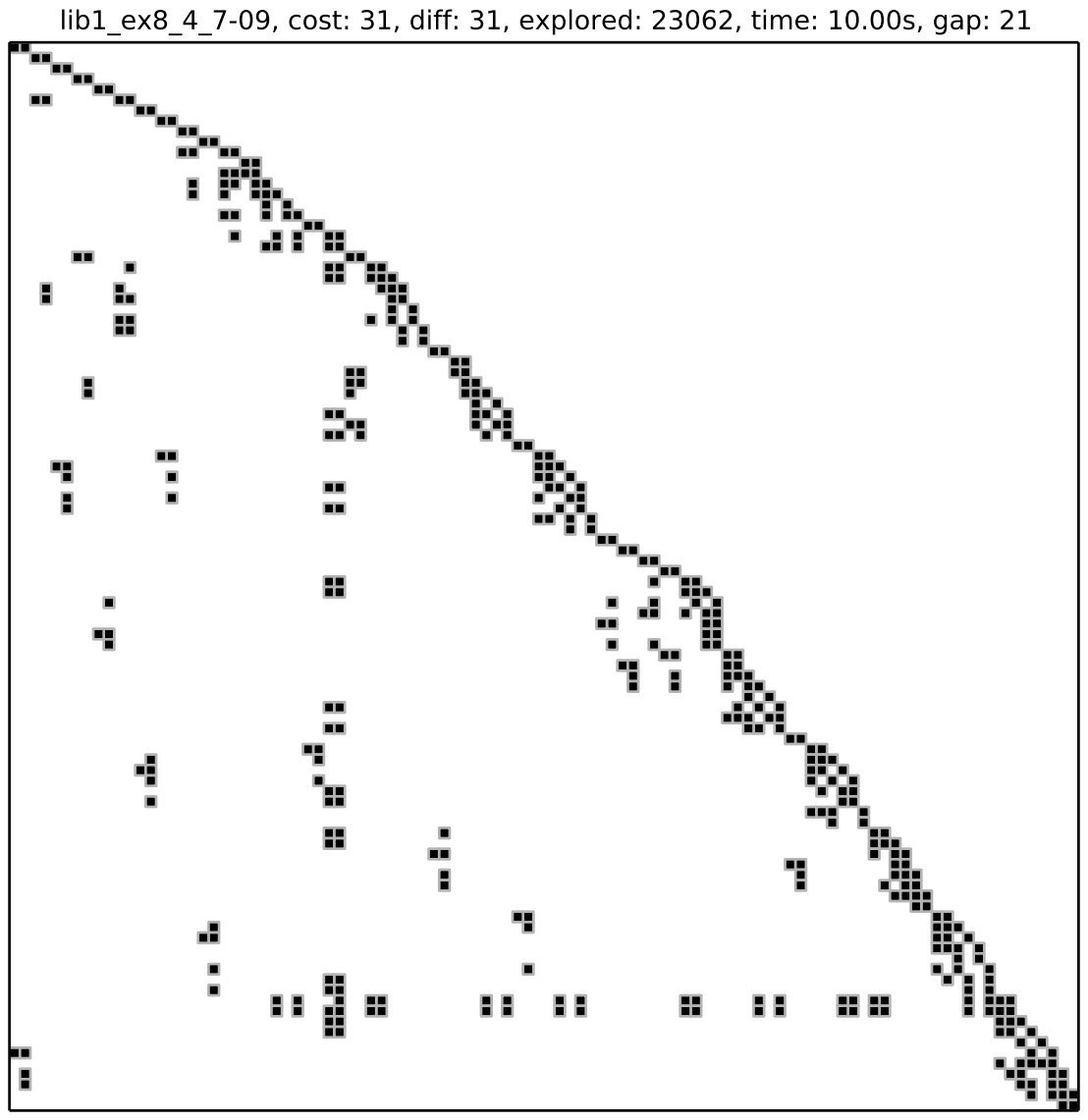
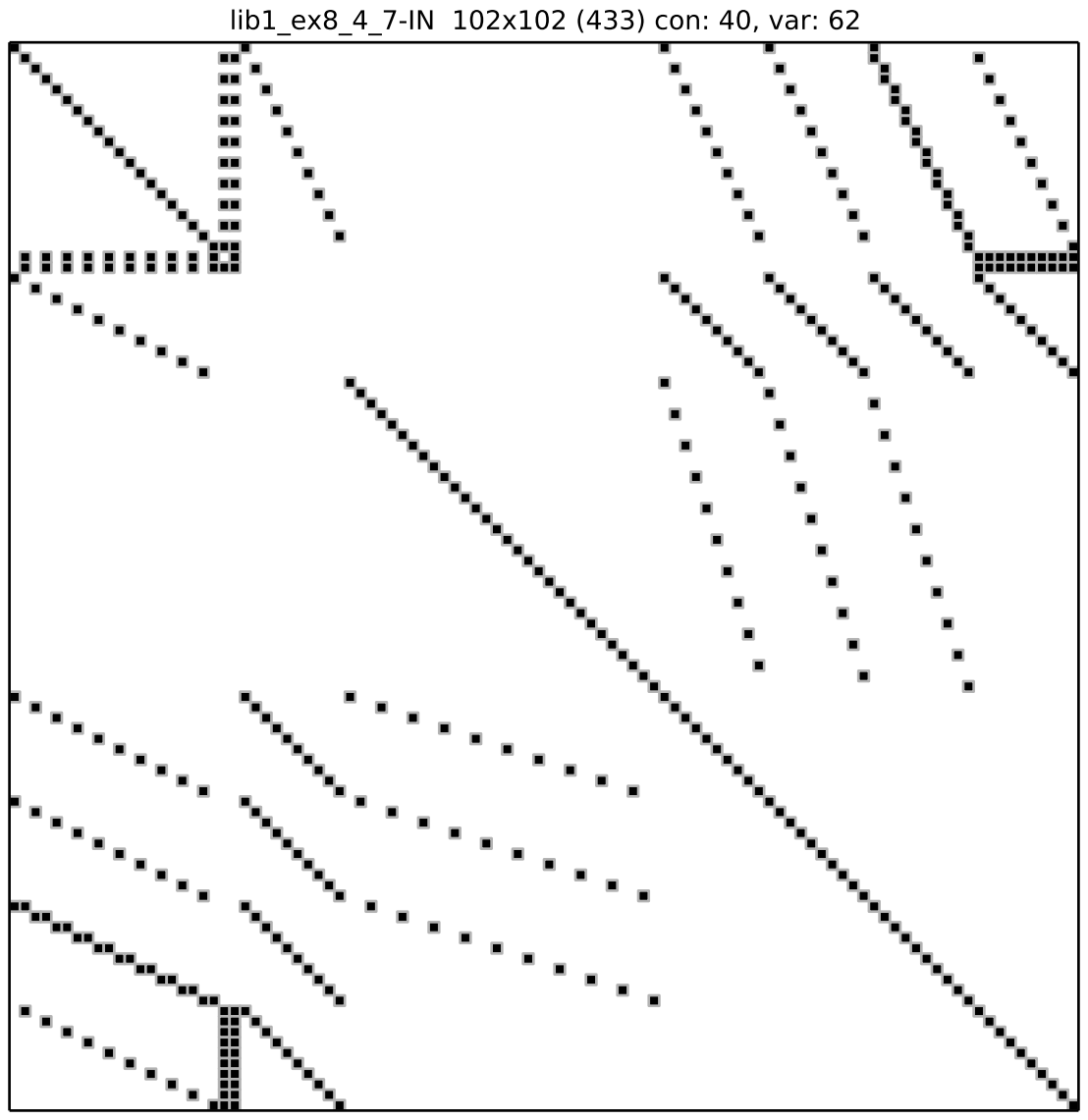
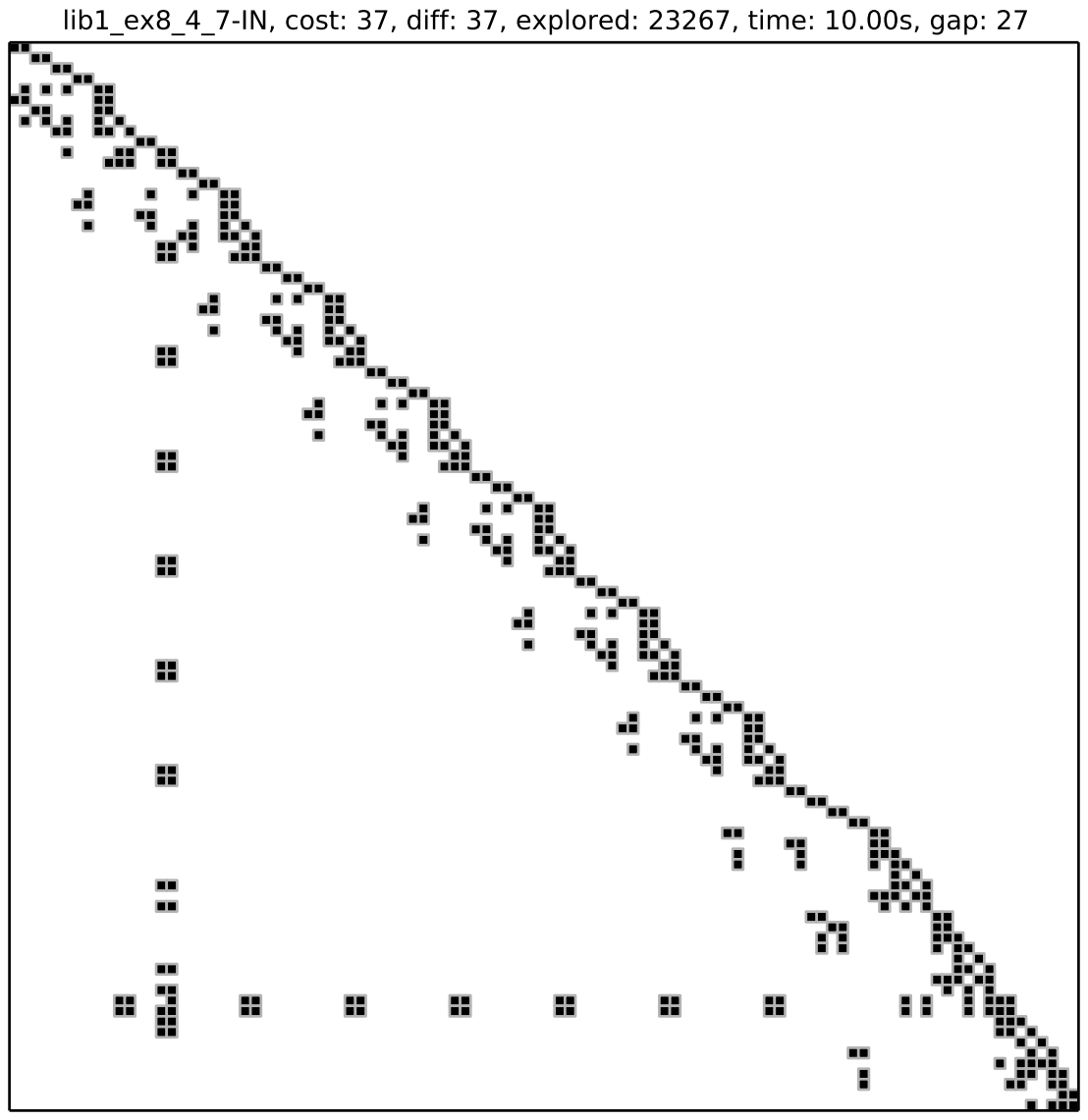
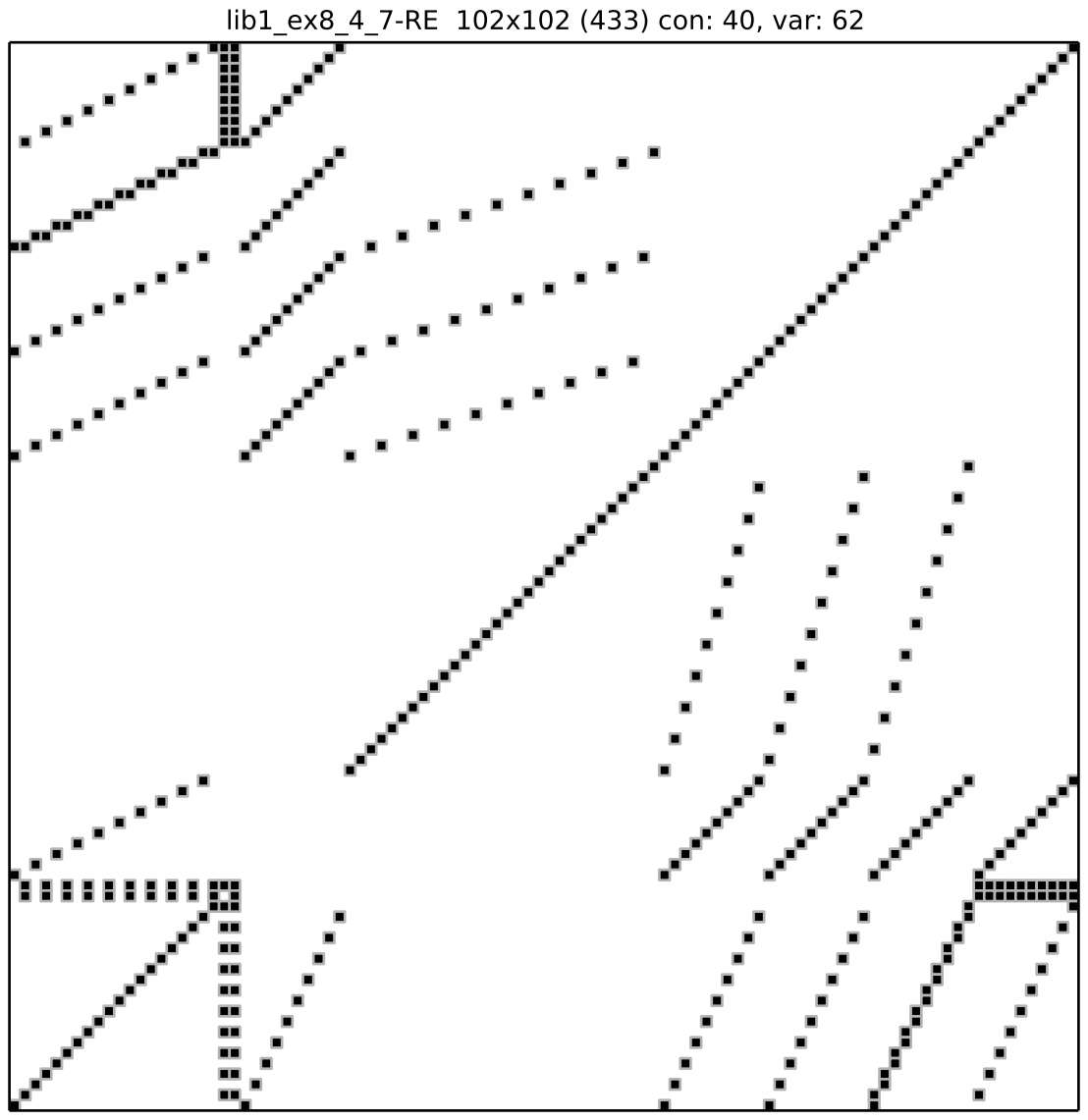
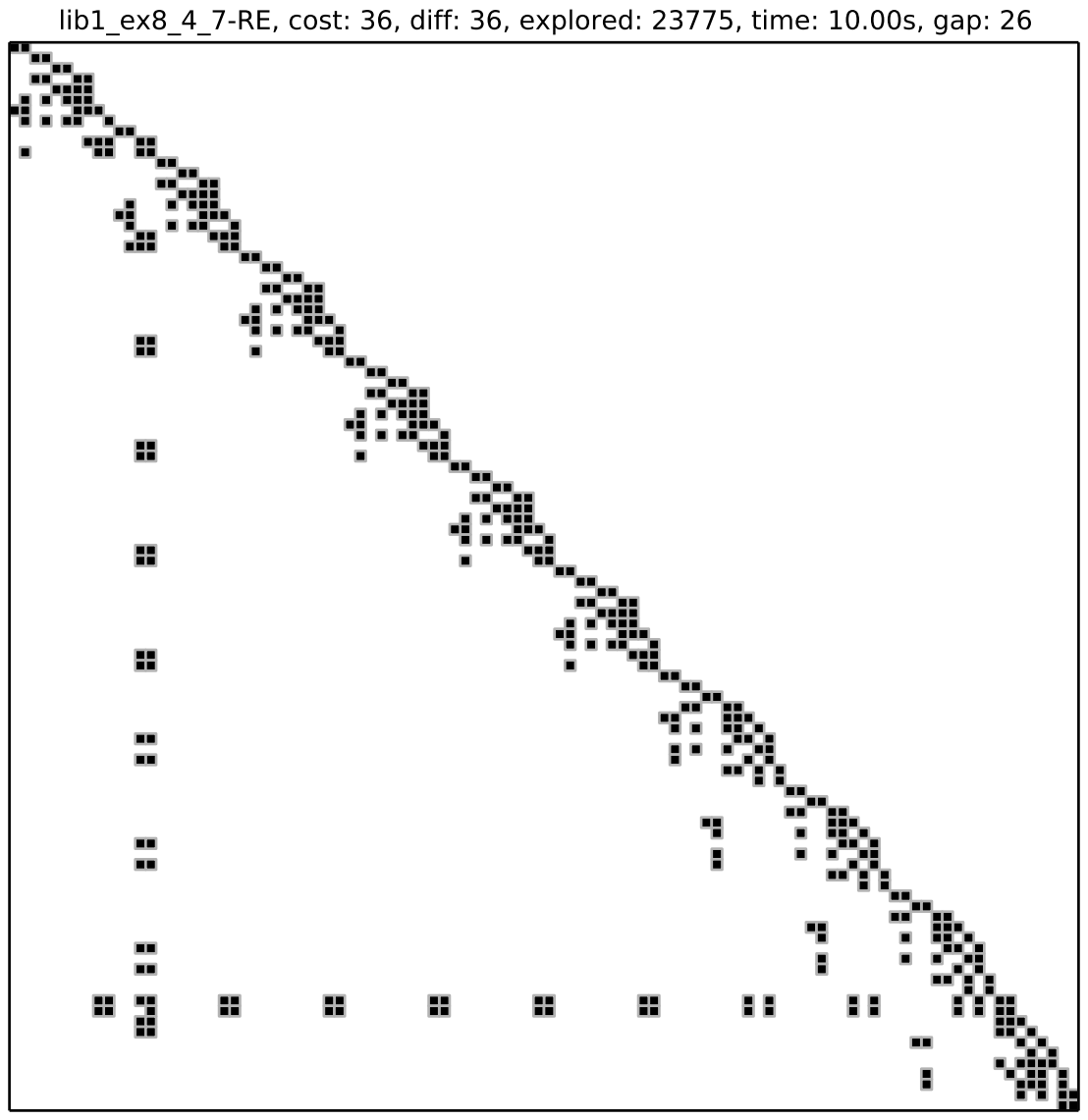



lib1_ex8_4_7-09, cost: 31, diff: 31, explored: 23062, time: 10.00s, gap: 21

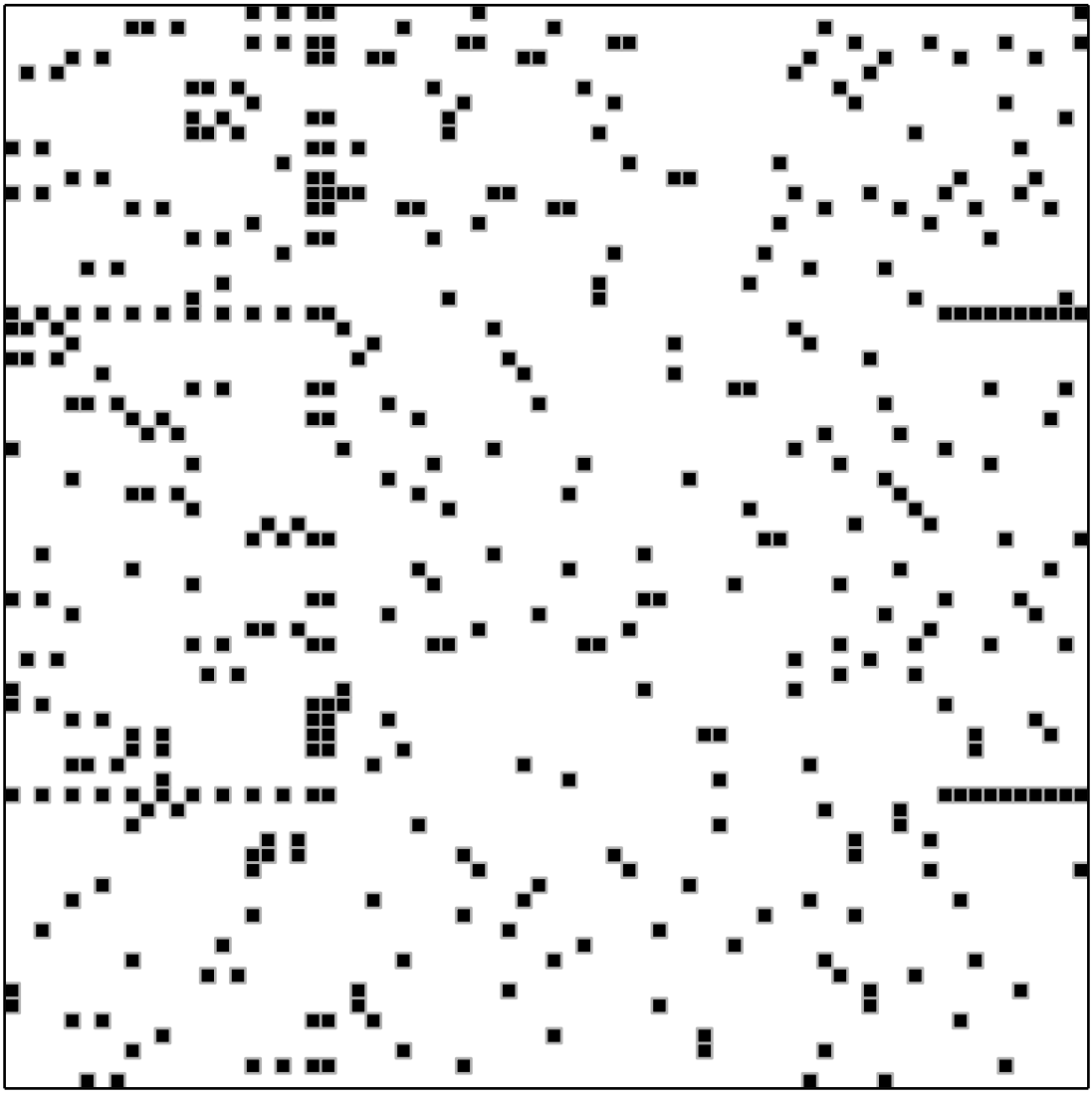

lib1_ex8_4_7-IN 102x102 (433) con: 40, var: 62

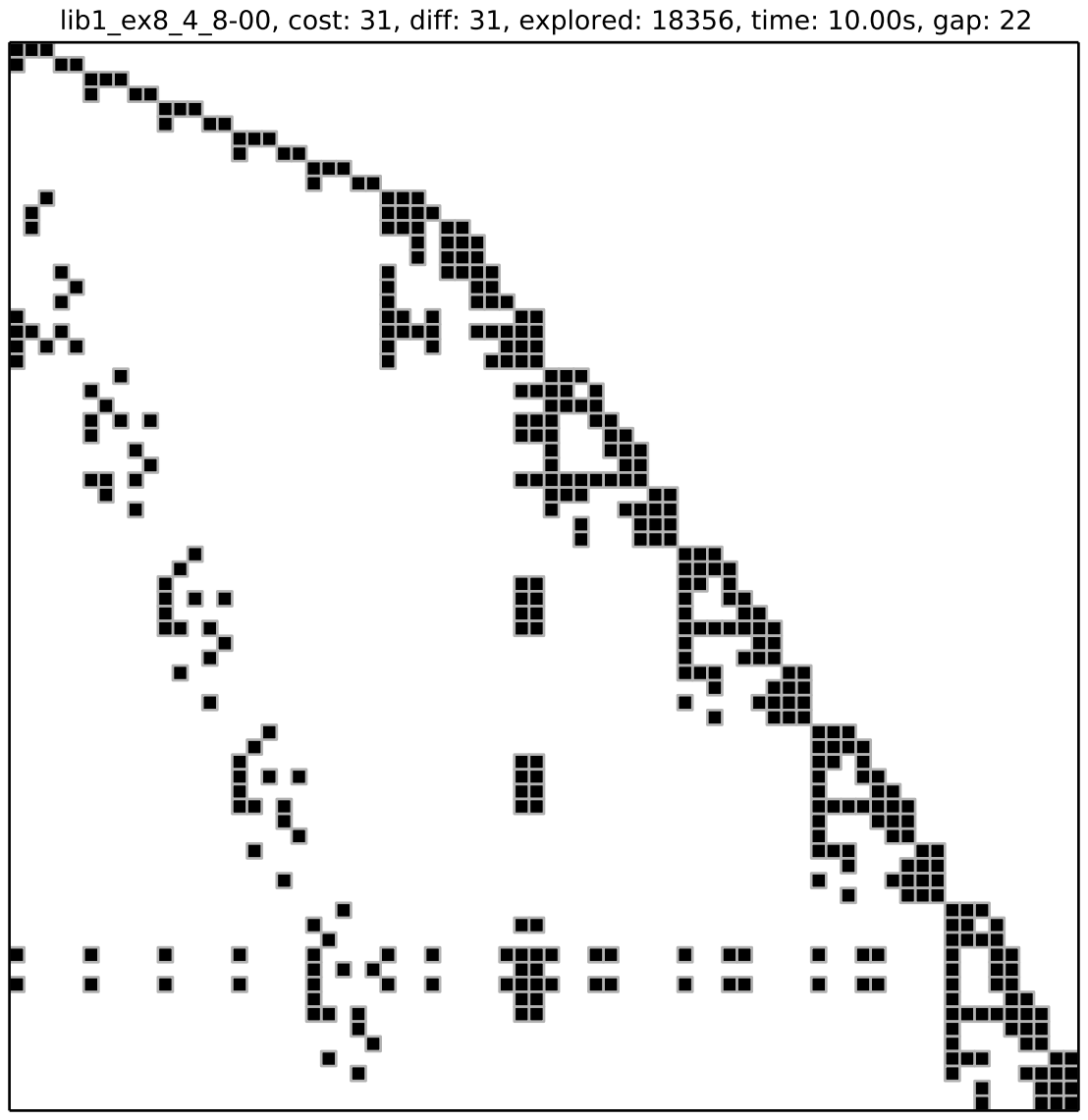

lib1_ex8_4_7-IN, cost: 37, diff: 37, explored: 23267, time: 10.00s, gap: 27


lib1_ex8_4_7-RE 102x102 (433) con: 40, var: 62

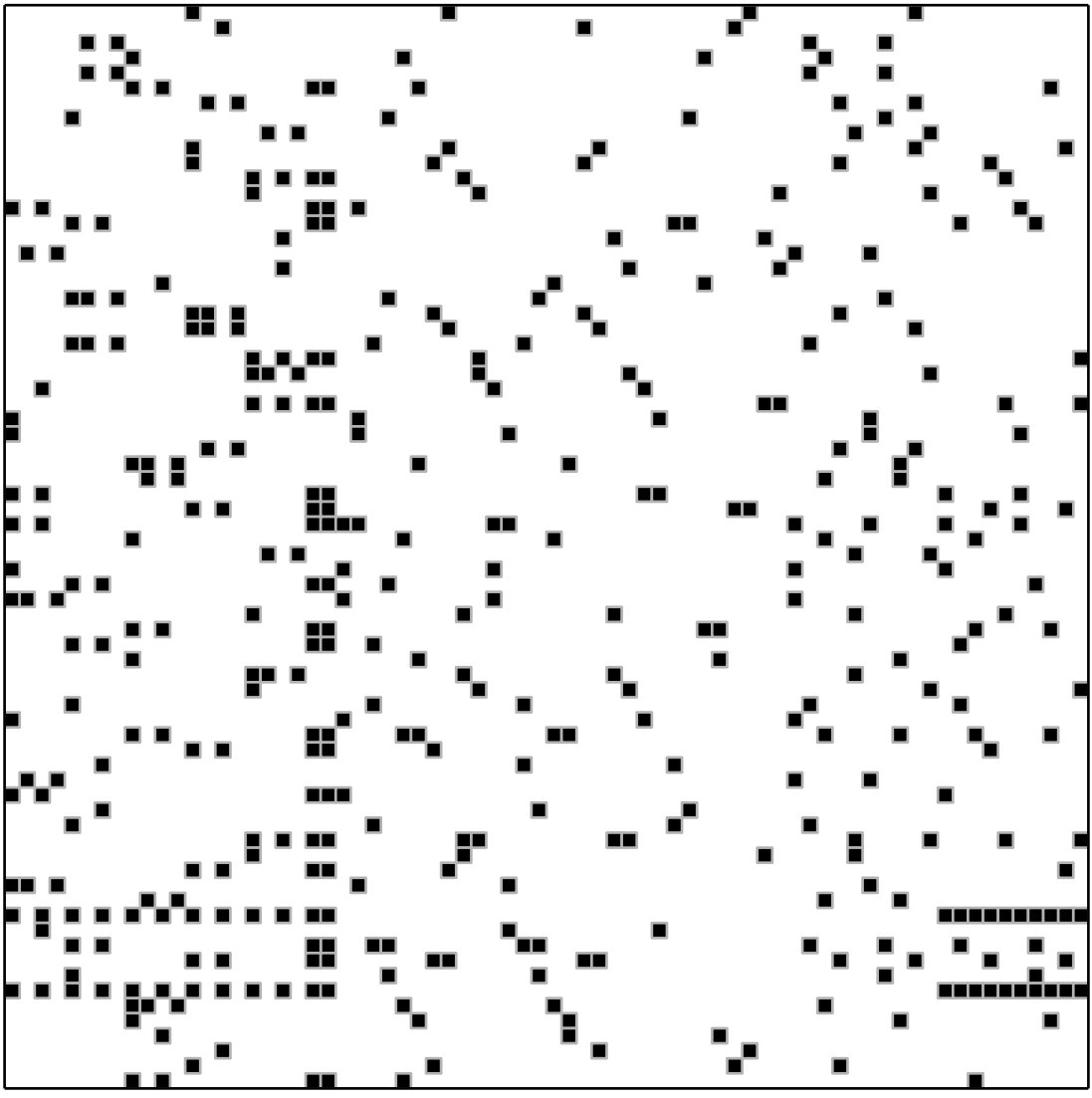

lib1_ex8_4_7-RE, cost: 36, diff: 36, explored: 23775, time: 10.00s, gap: 26

lib1_ex8_4_8-00 72x72 (424) con: 30, var: 42



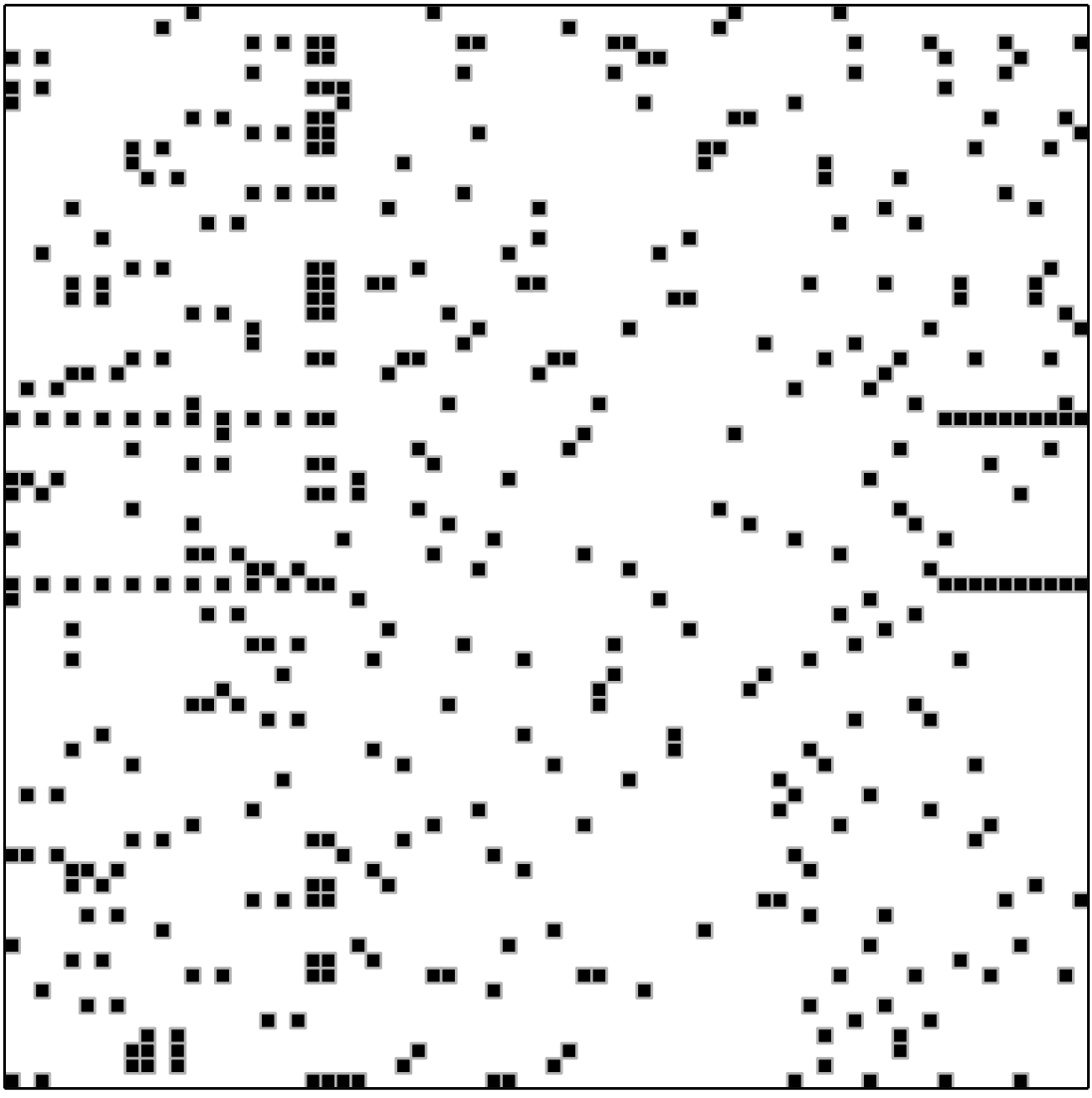

lib1_ex8_4_8-00, cost: 31, diff: 31, explored: 18356, time: 10.00s, gap: 22

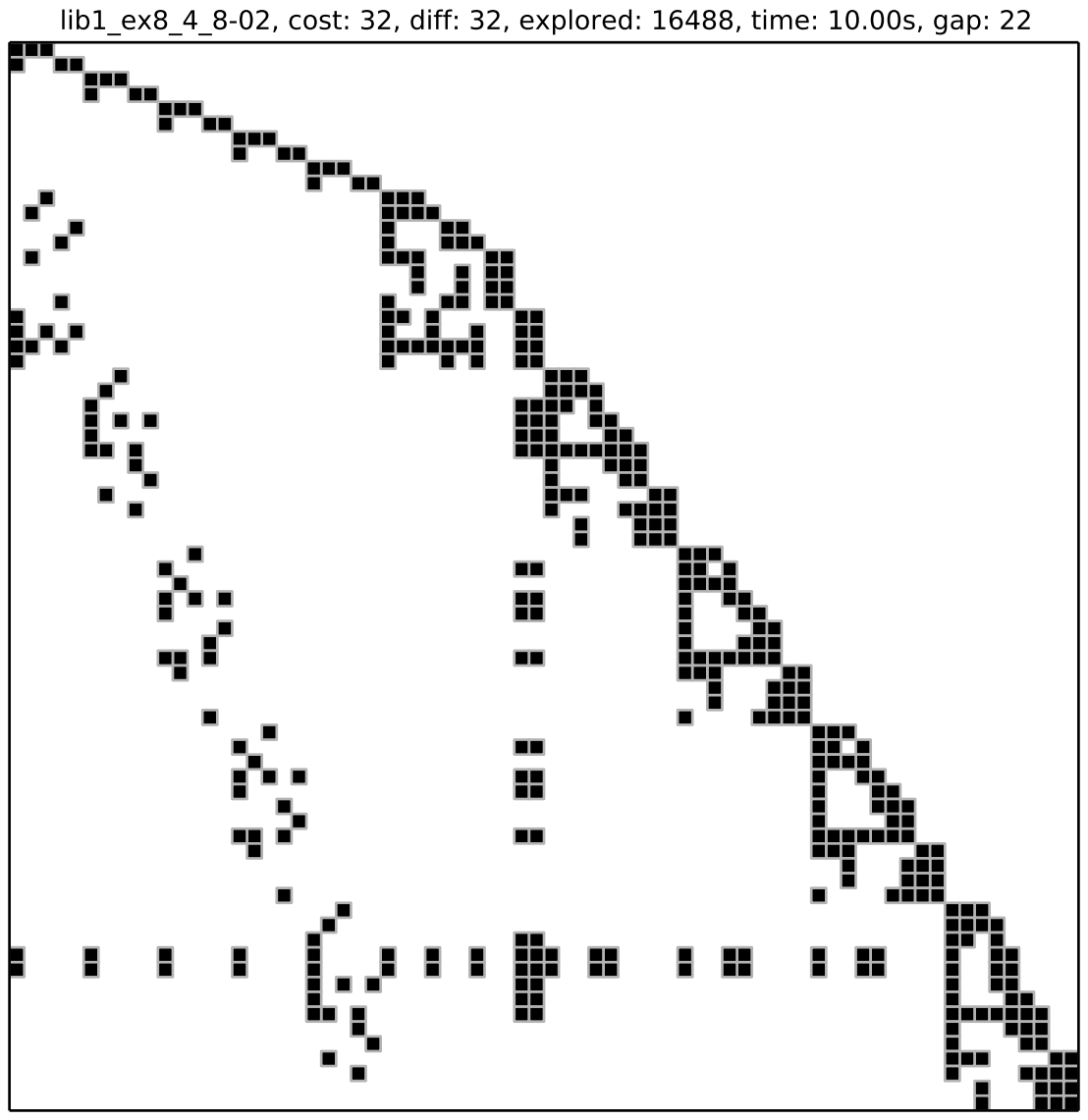
lib1_ex8_4_8-01 72x72 (424) con: 30, var: 42



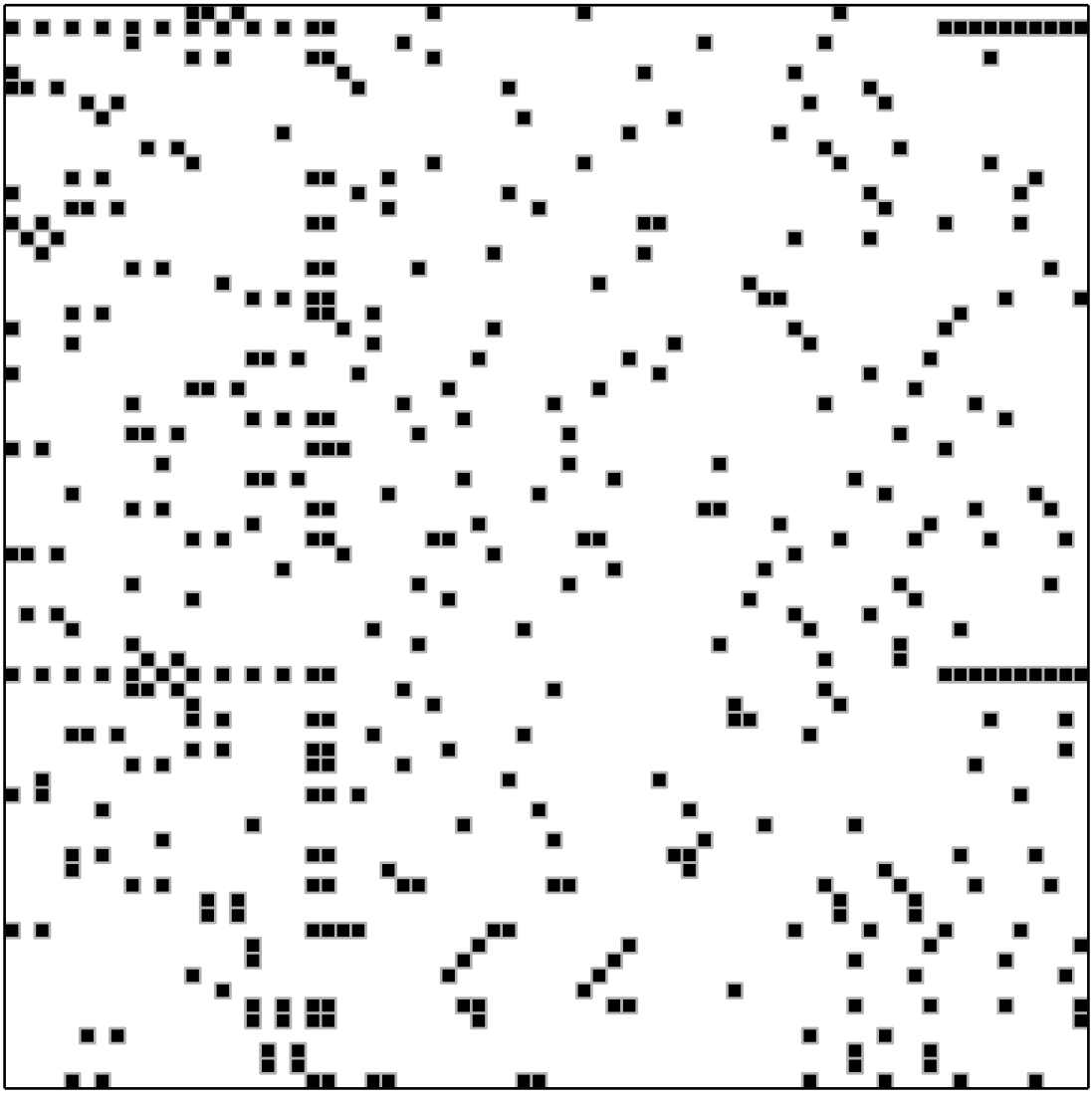
lib1_ex8_4_8-01, cost: 32, diff: 32, explored: 18371, time: 10.00s, gap: 22

lib1_ex8_4_8-02 72x72 (424) con: 30, var: 42



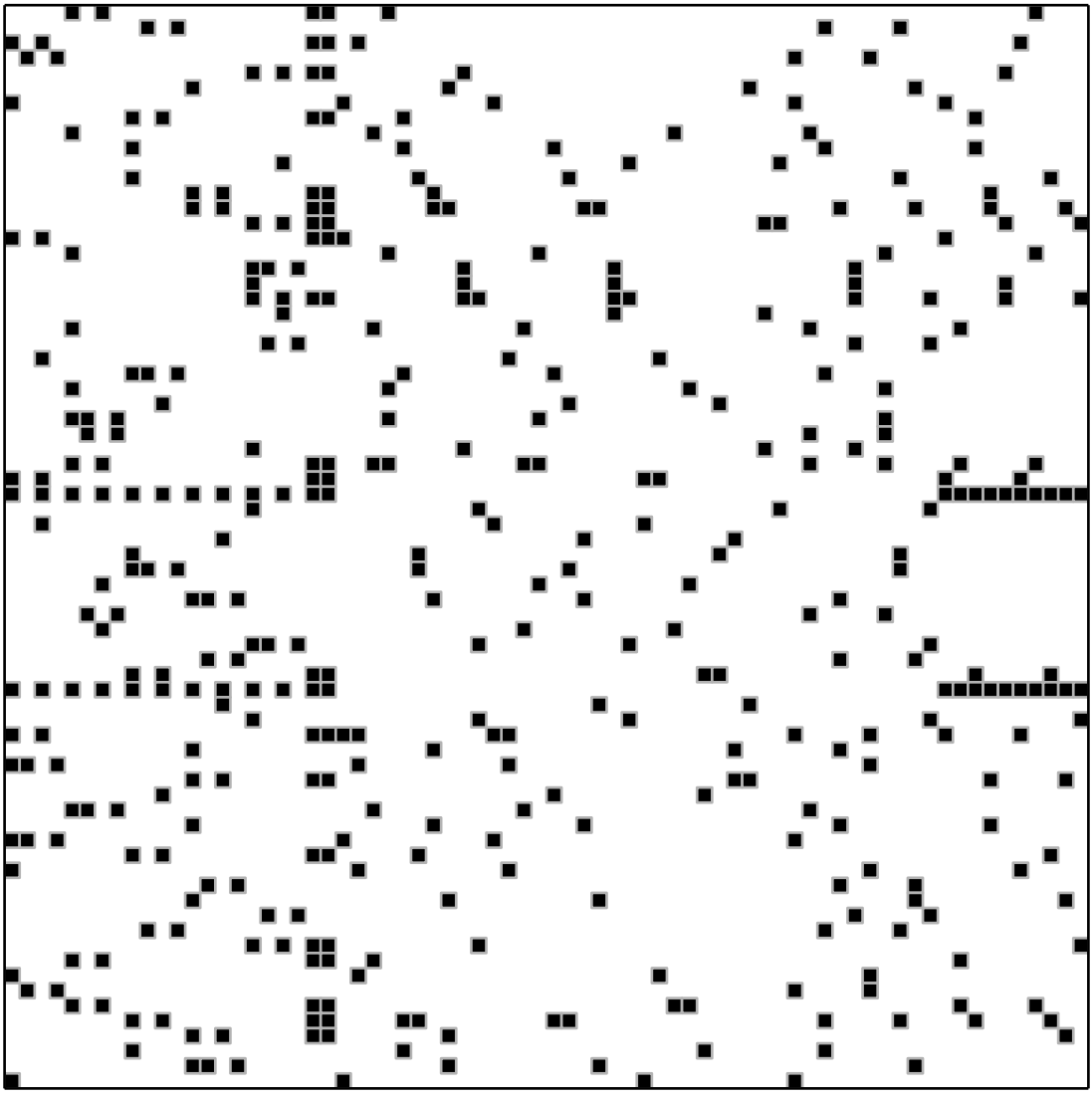

lib1_ex8_4_8-02, cost: 32, diff: 32, explored: 16488, time: 10.00s, gap: 22

lib1_ex8_4_8-03 72x72 (424) con: 30, var: 42



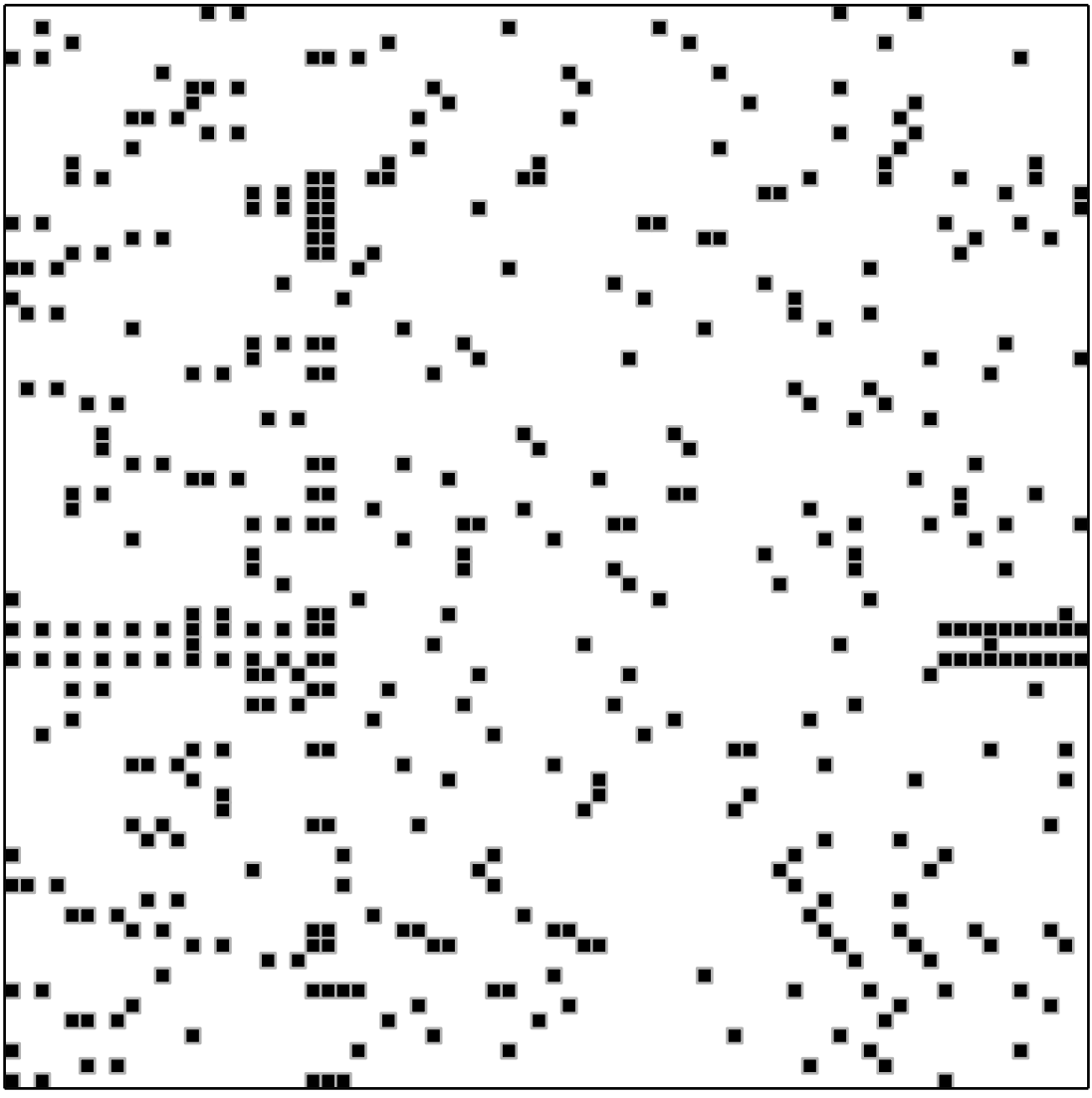
lib1_ex8_4_8-03, cost: 31, diff: 31, explored: 15933, time: 10.00s, gap: 22

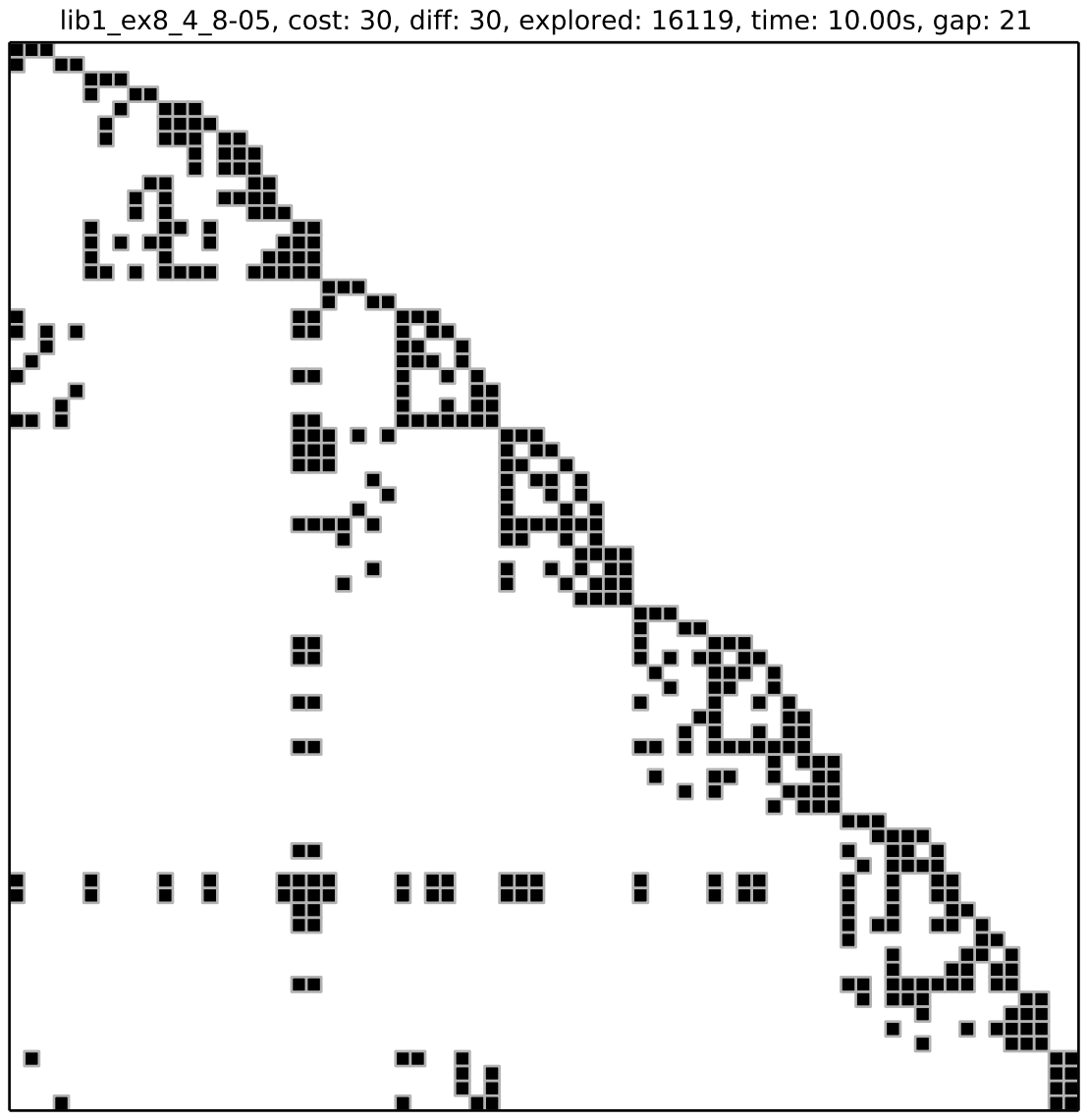
lib1_ex8_4_8-04 72x72 (424) con: 30, var: 42



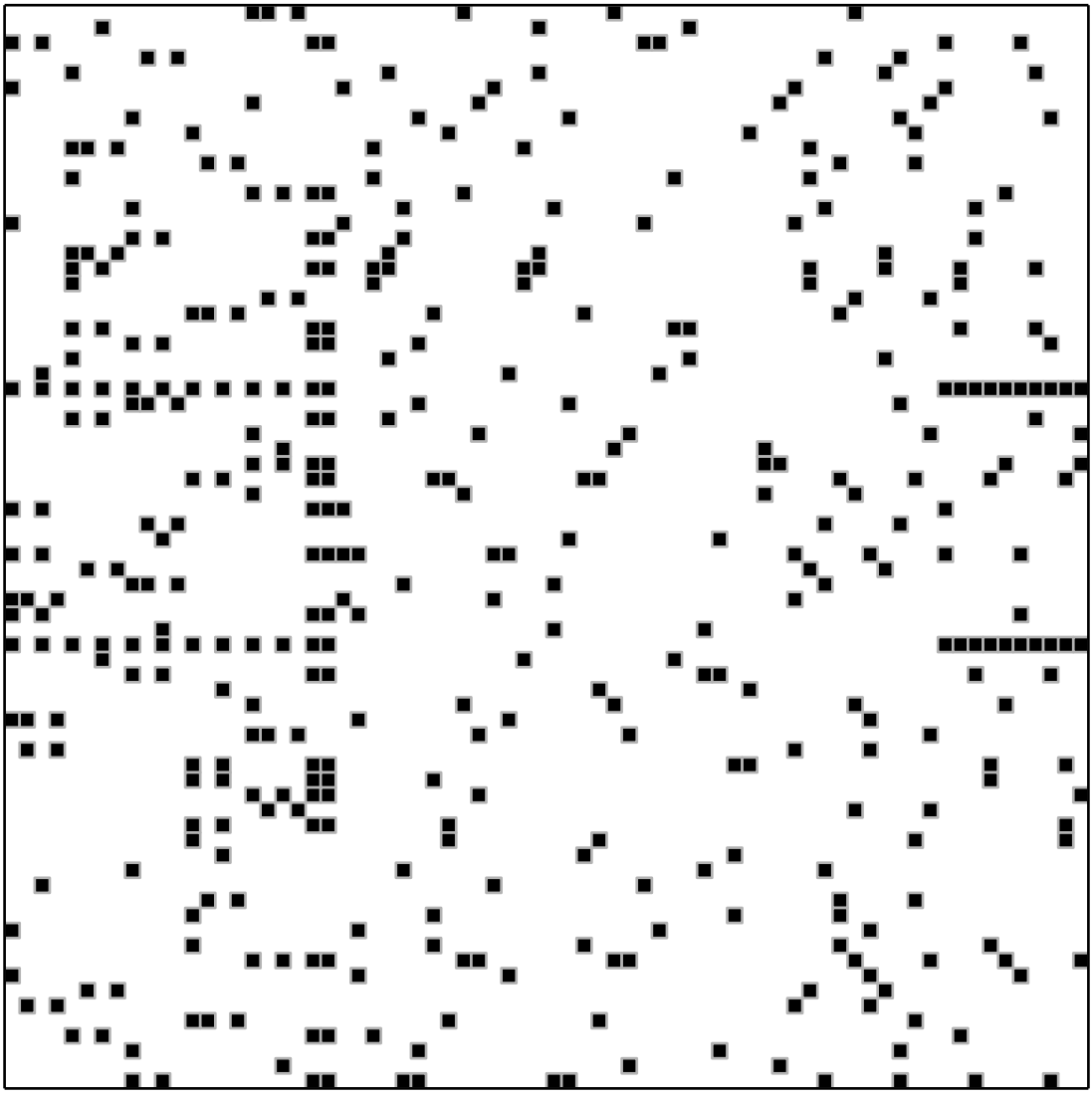
lib1_ex8_4_8-04, cost: 30, diff: 30, explored: 15582, time: 10.00s, gap: 20

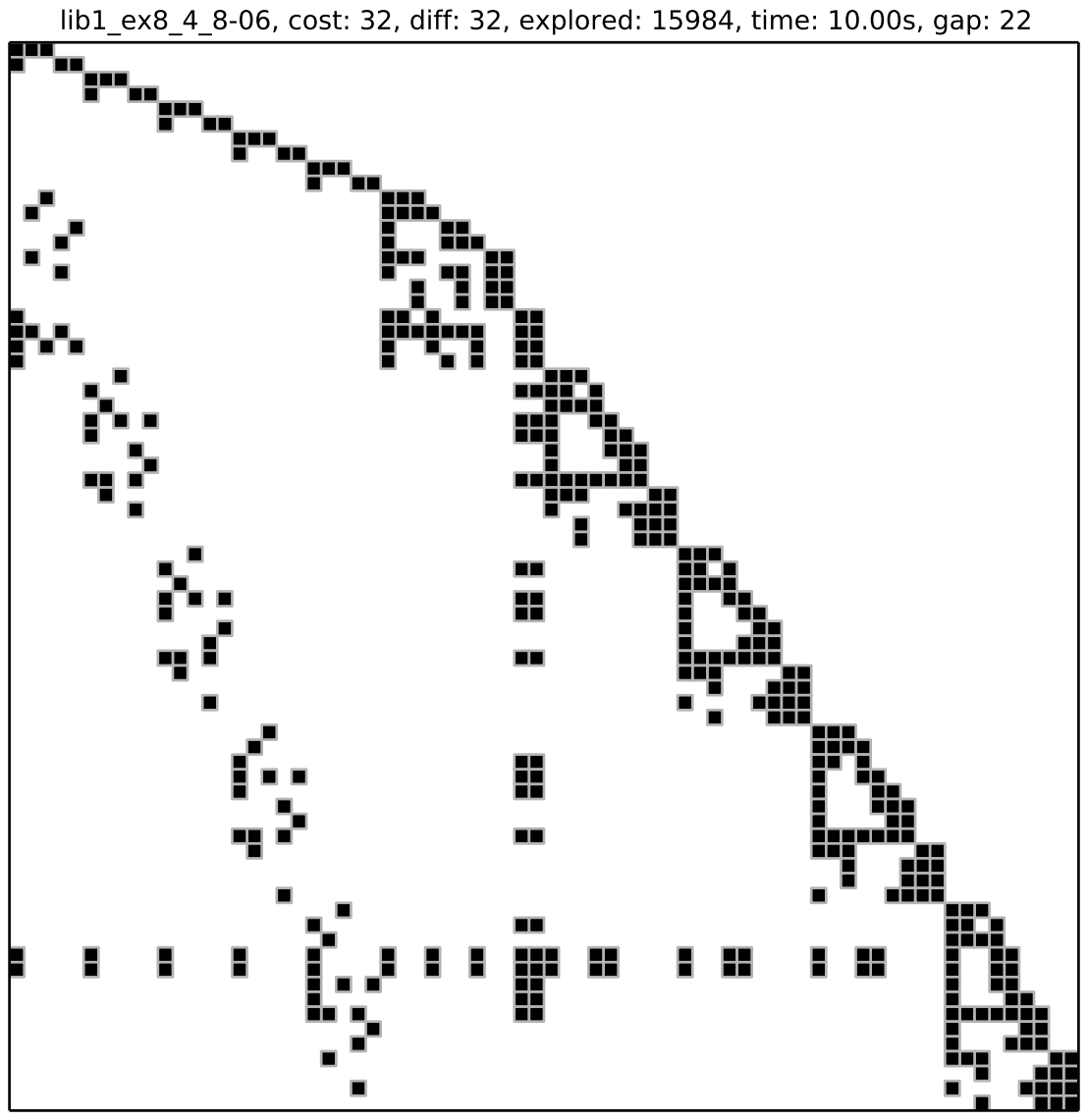
lib1_ex8_4_8-05 72x72 (424) con: 30, var: 42



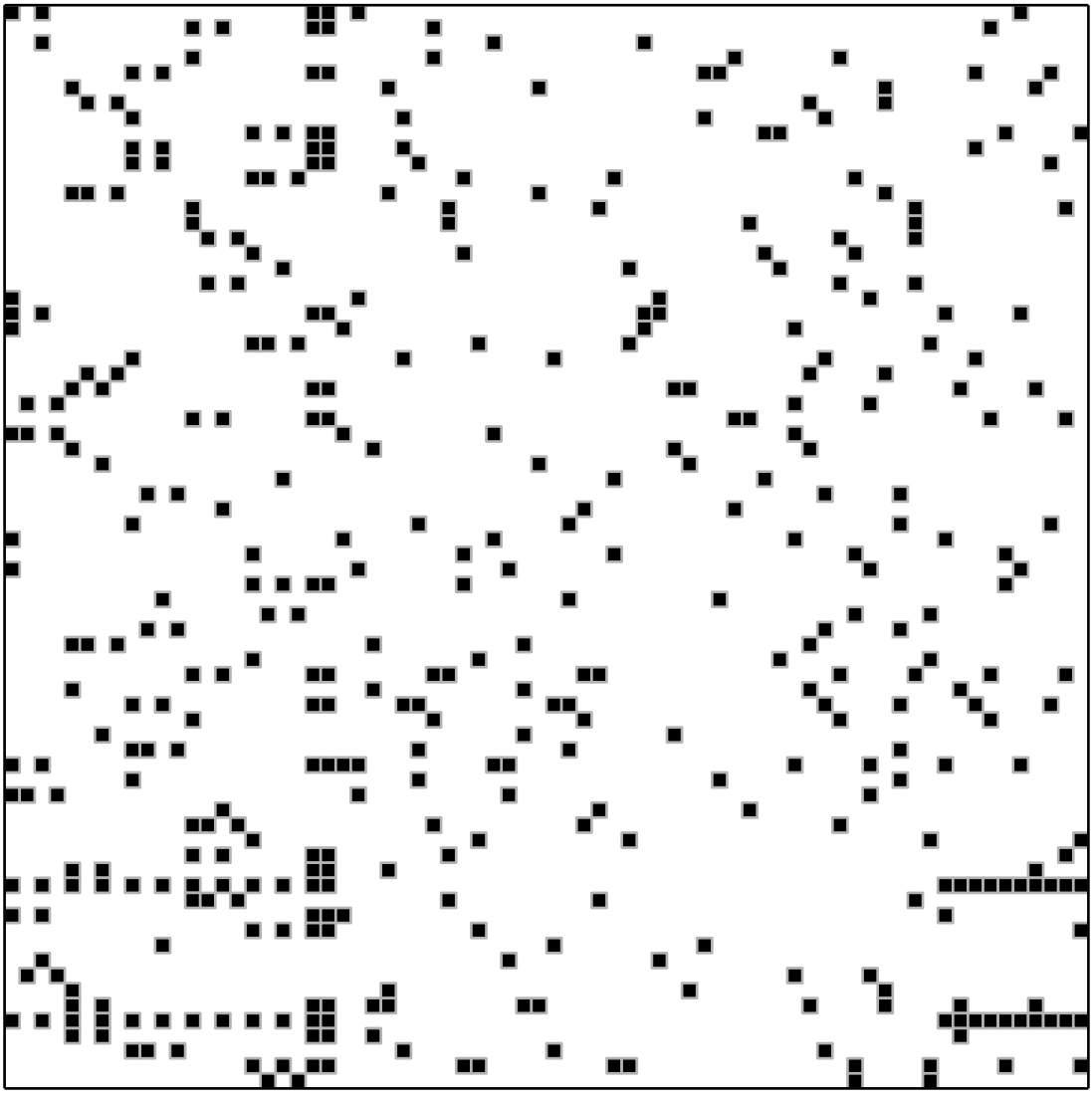

lib1_ex8_4_8-05, cost: 30, diff: 30, explored: 16119, time: 10.00s, gap: 21

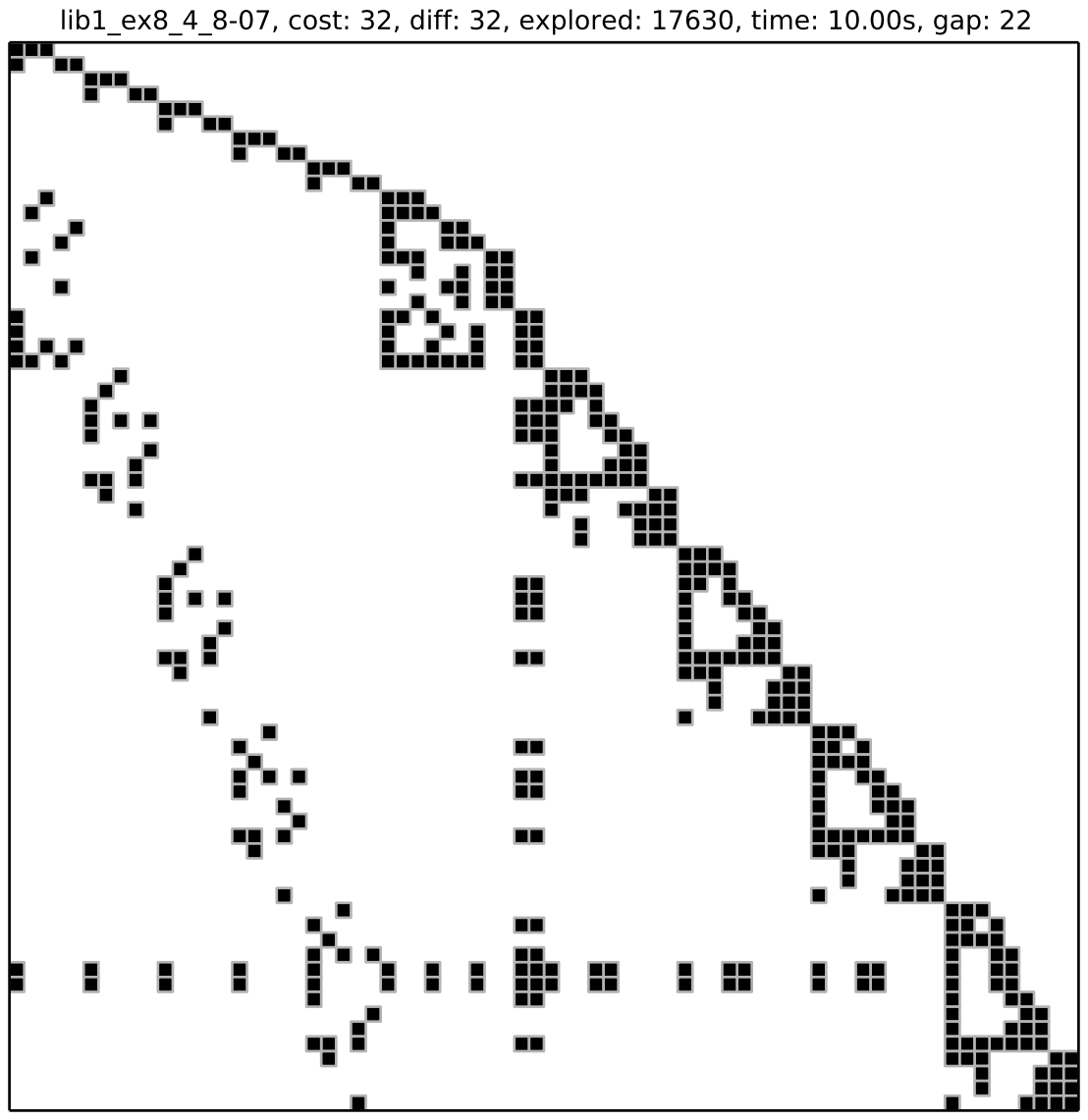
lib1_ex8_4_8-06 72x72 (424) con: 30, var: 42

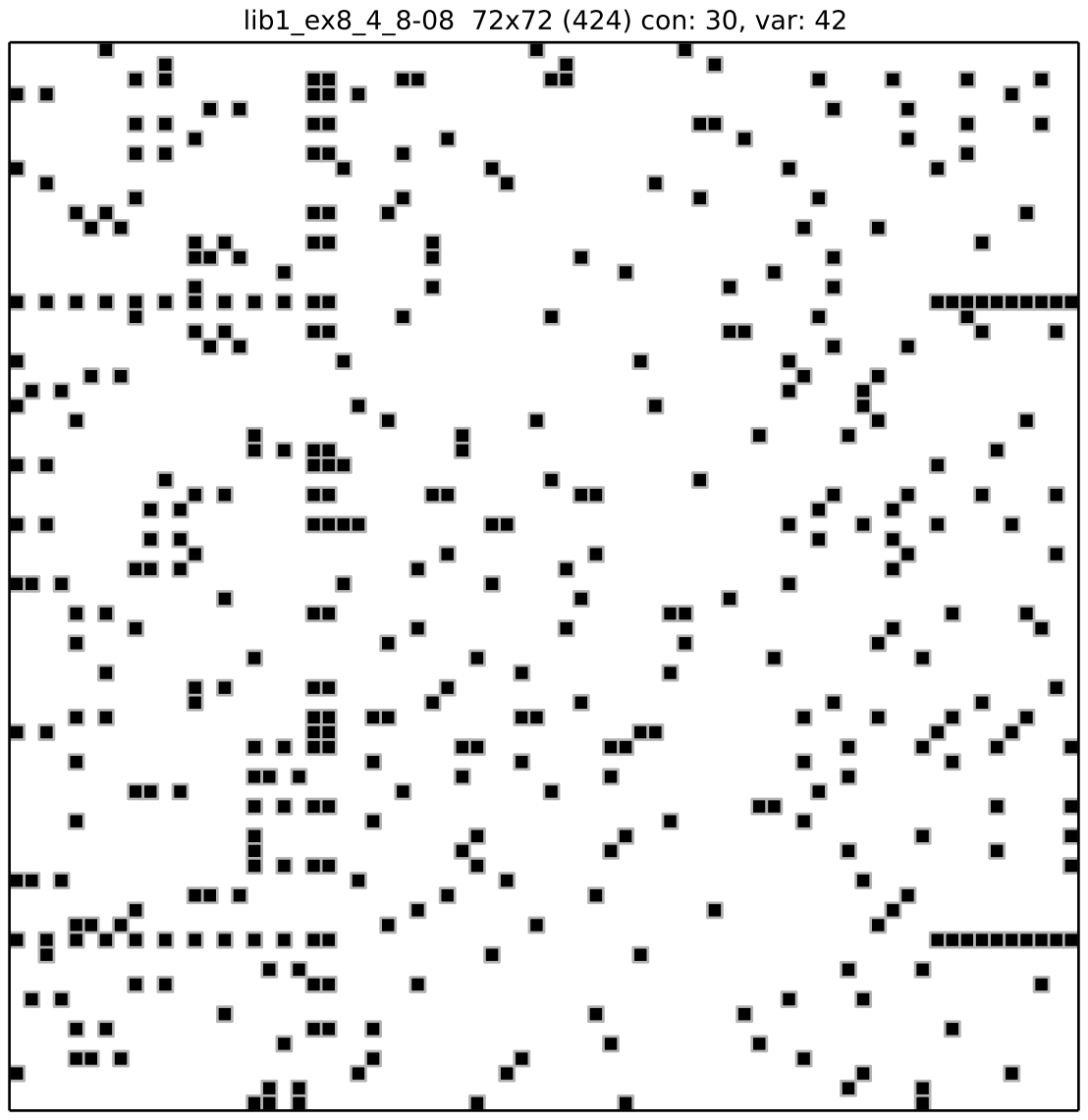


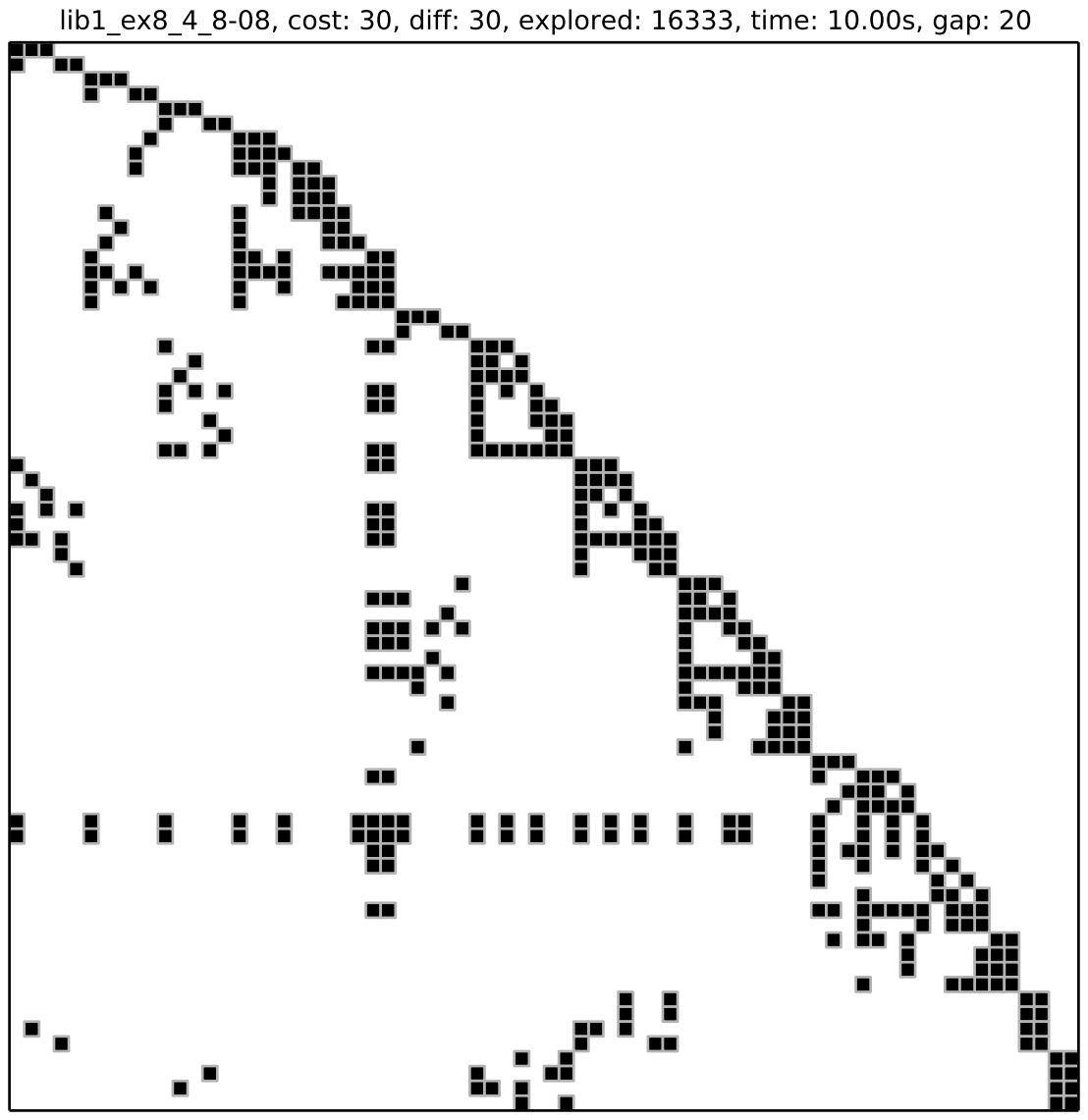

lib1_ex8_4_8-06, cost: 32, diff: 32, explored: 15984, time: 10.00s, gap: 22

lib1_ex8_4_8-07 72x72 (424) con: 30, var: 42

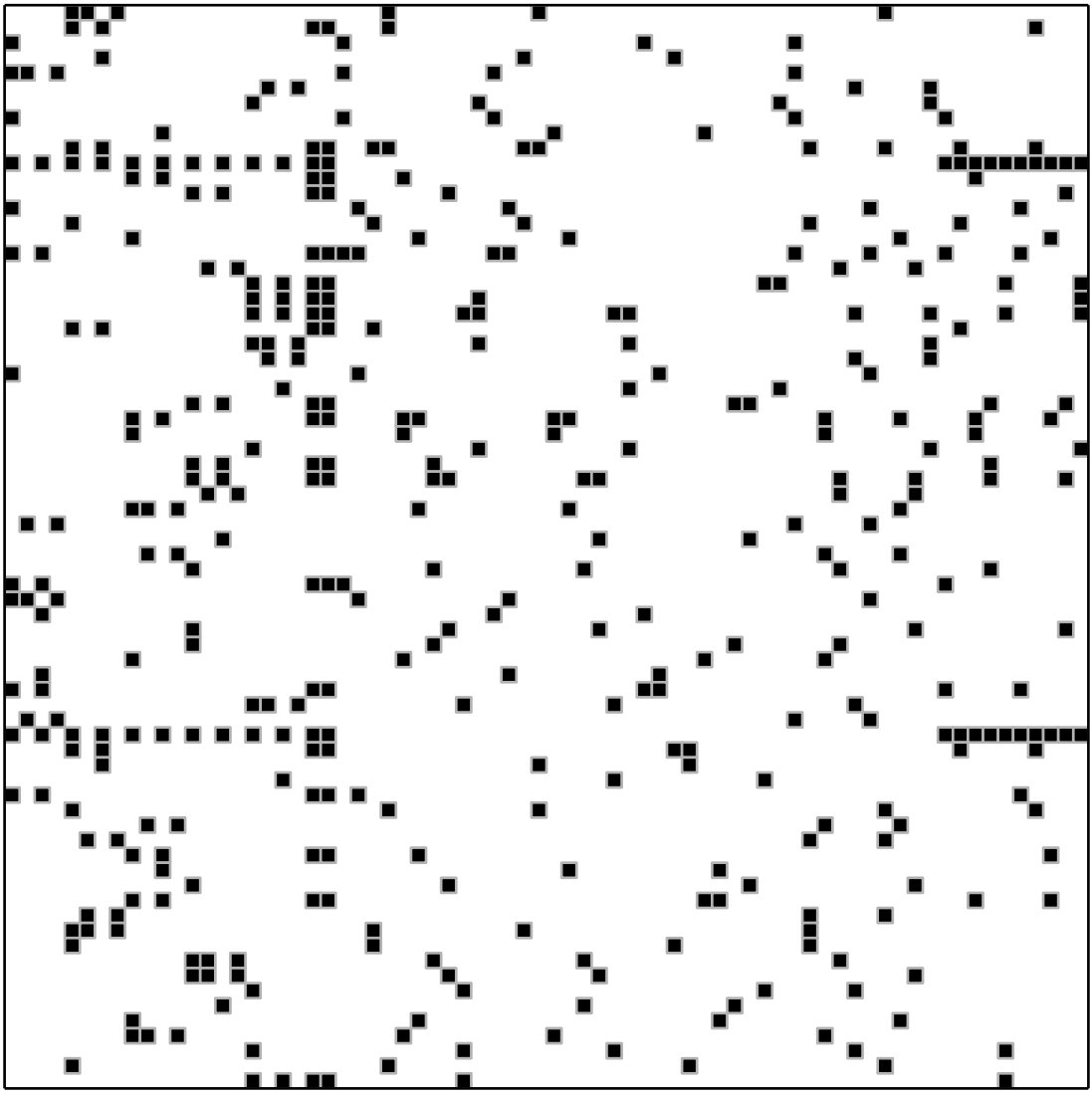


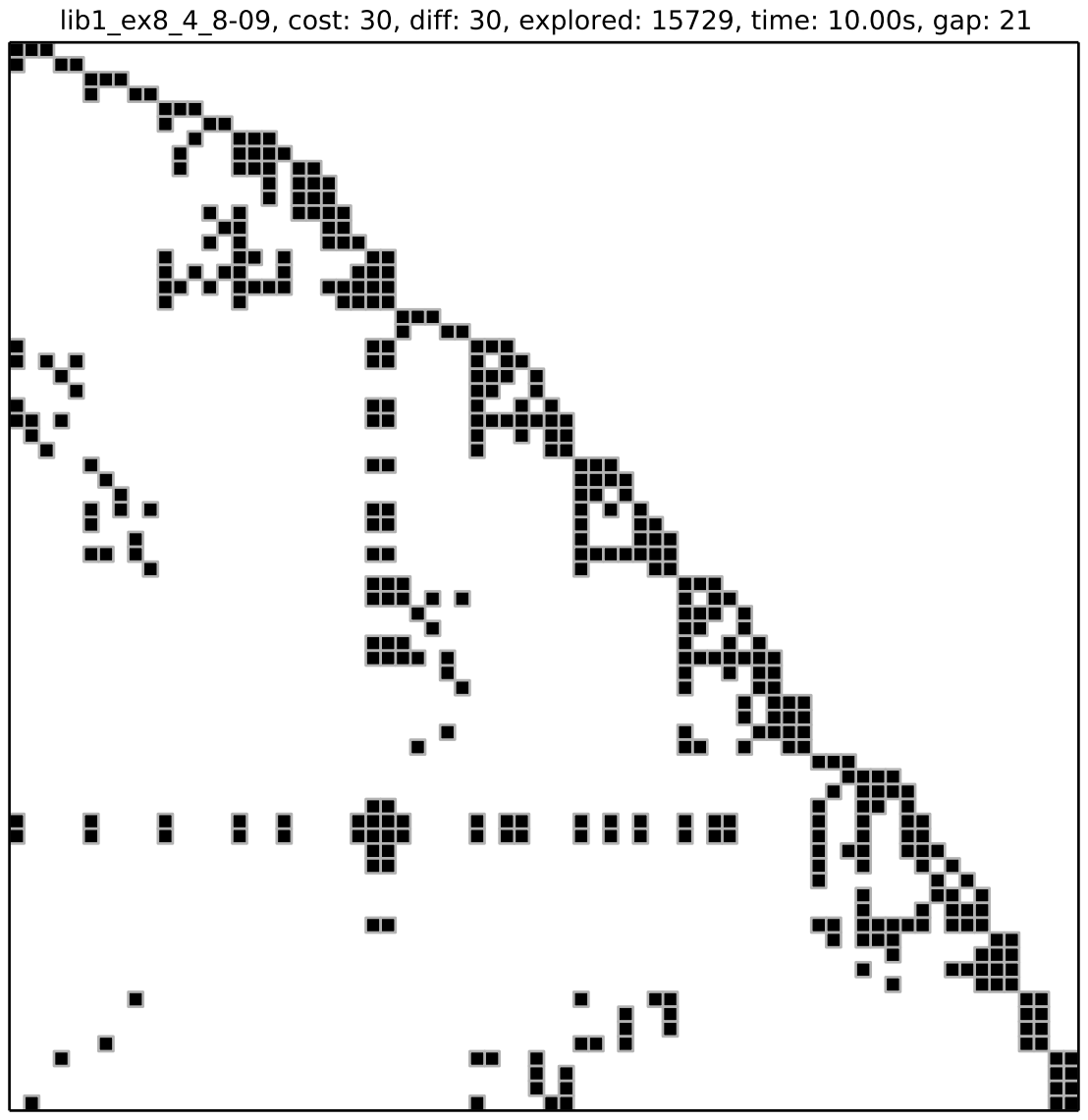

lib1_ex8_4_8-07, cost: 32, diff: 32, explored: 17630, time: 10.00s, gap: 22

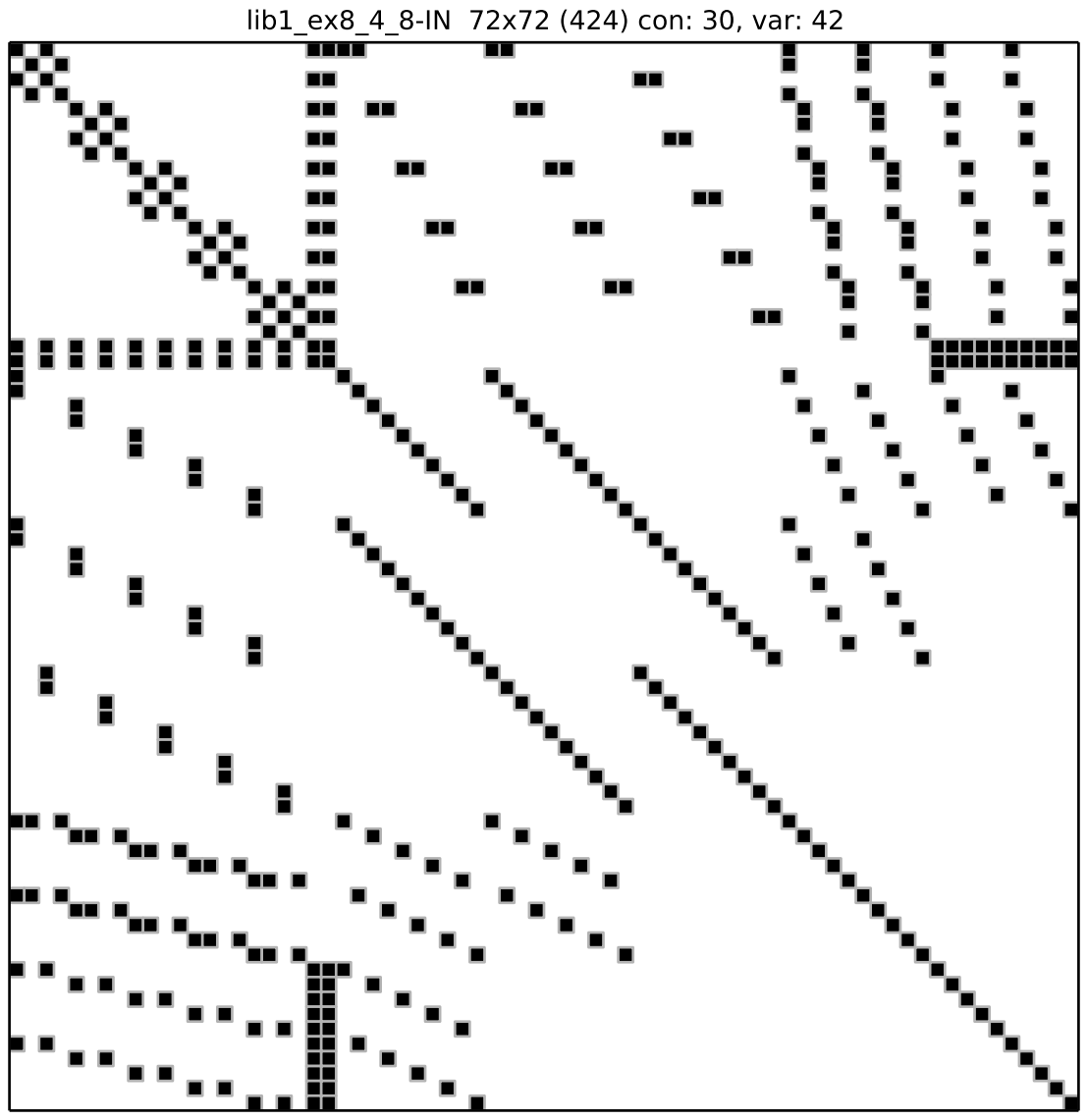

lib1_ex8_4_8-08 72x72 (424) con: 30, var: 42

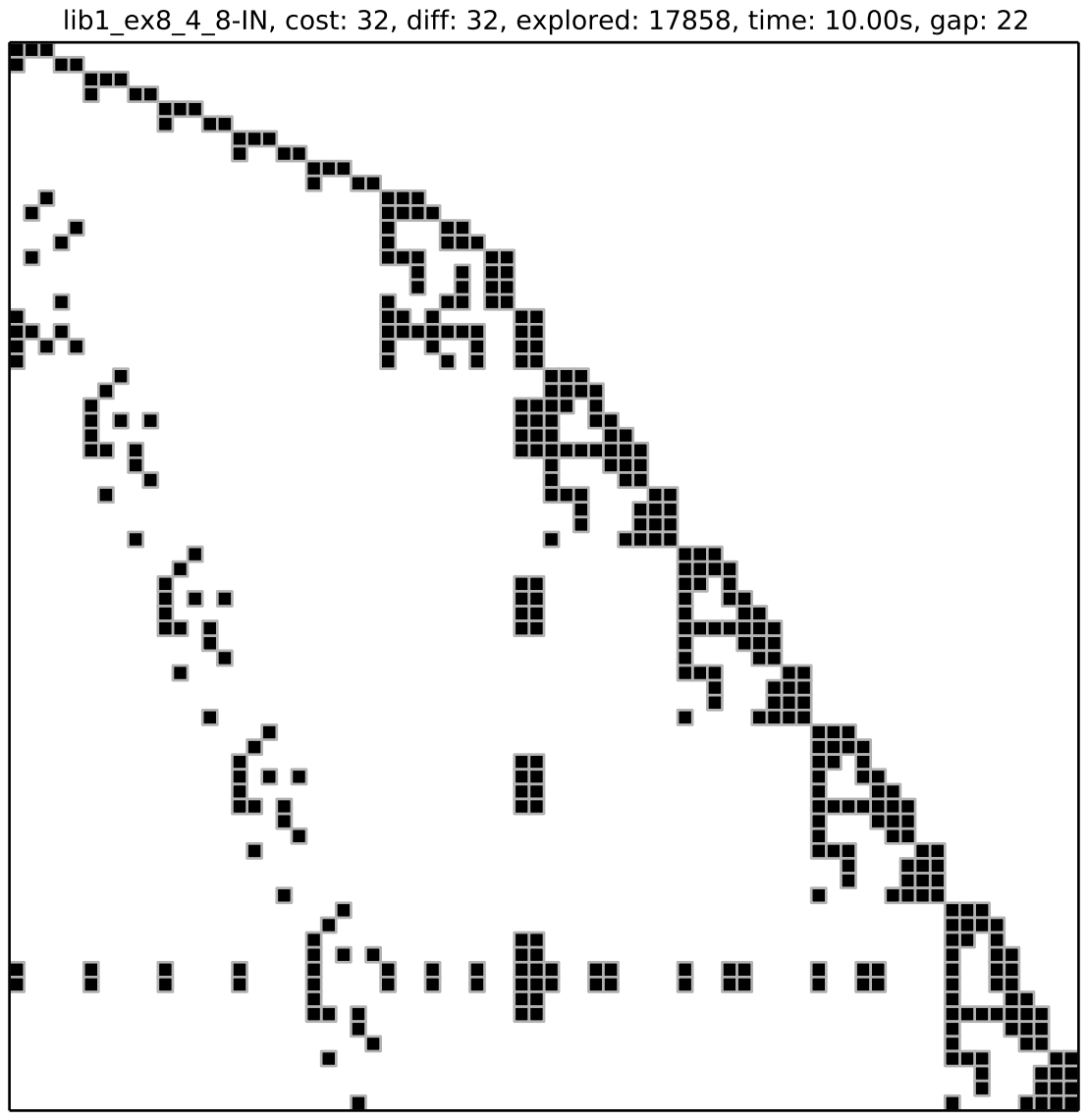

lib1_ex8_4_8-08, cost: 30, diff: 30, explored: 16333, time: 10.00s, gap: 20

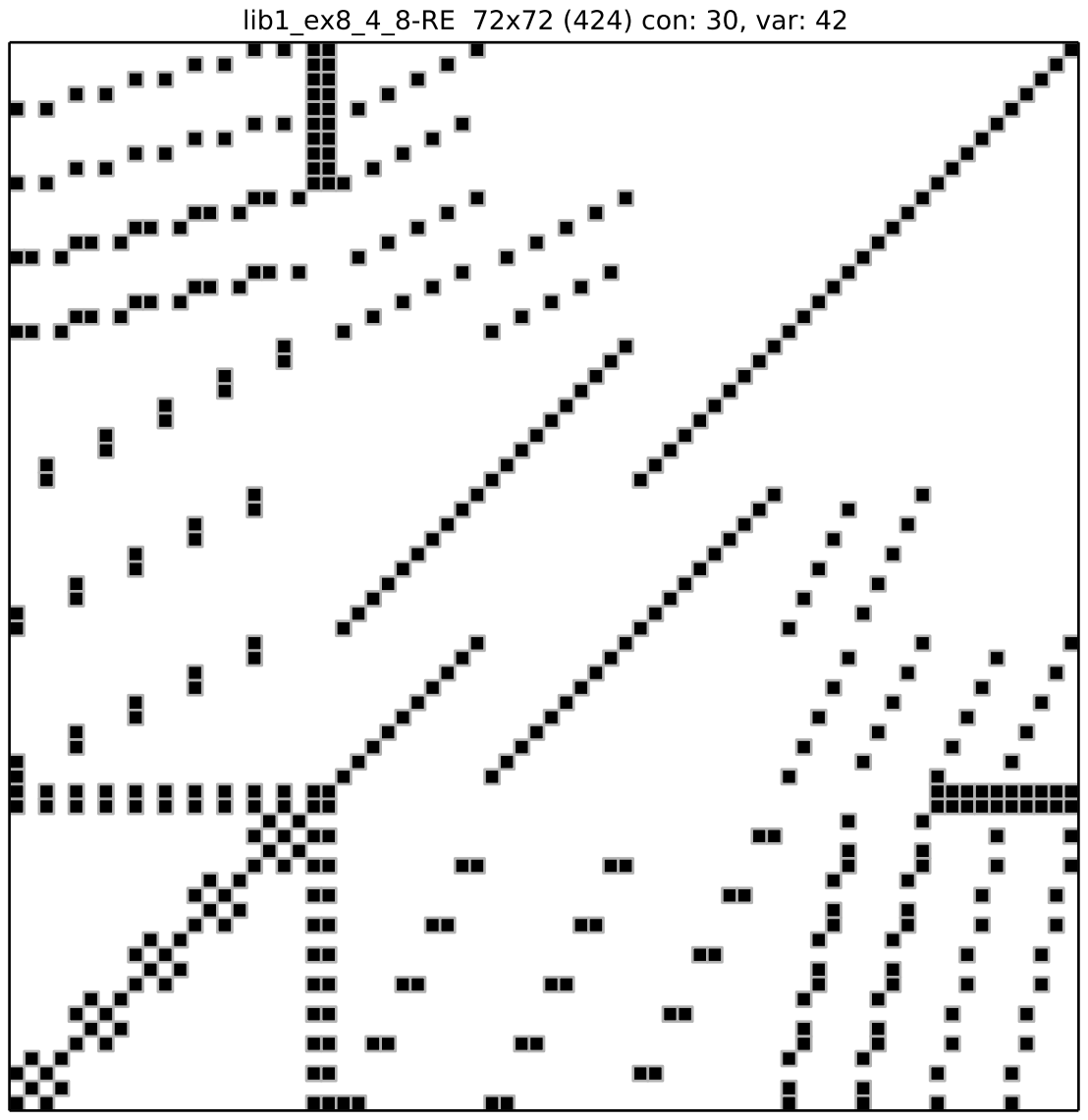
lib1_ex8_4_8-09 72x72 (424) con: 30, var: 42

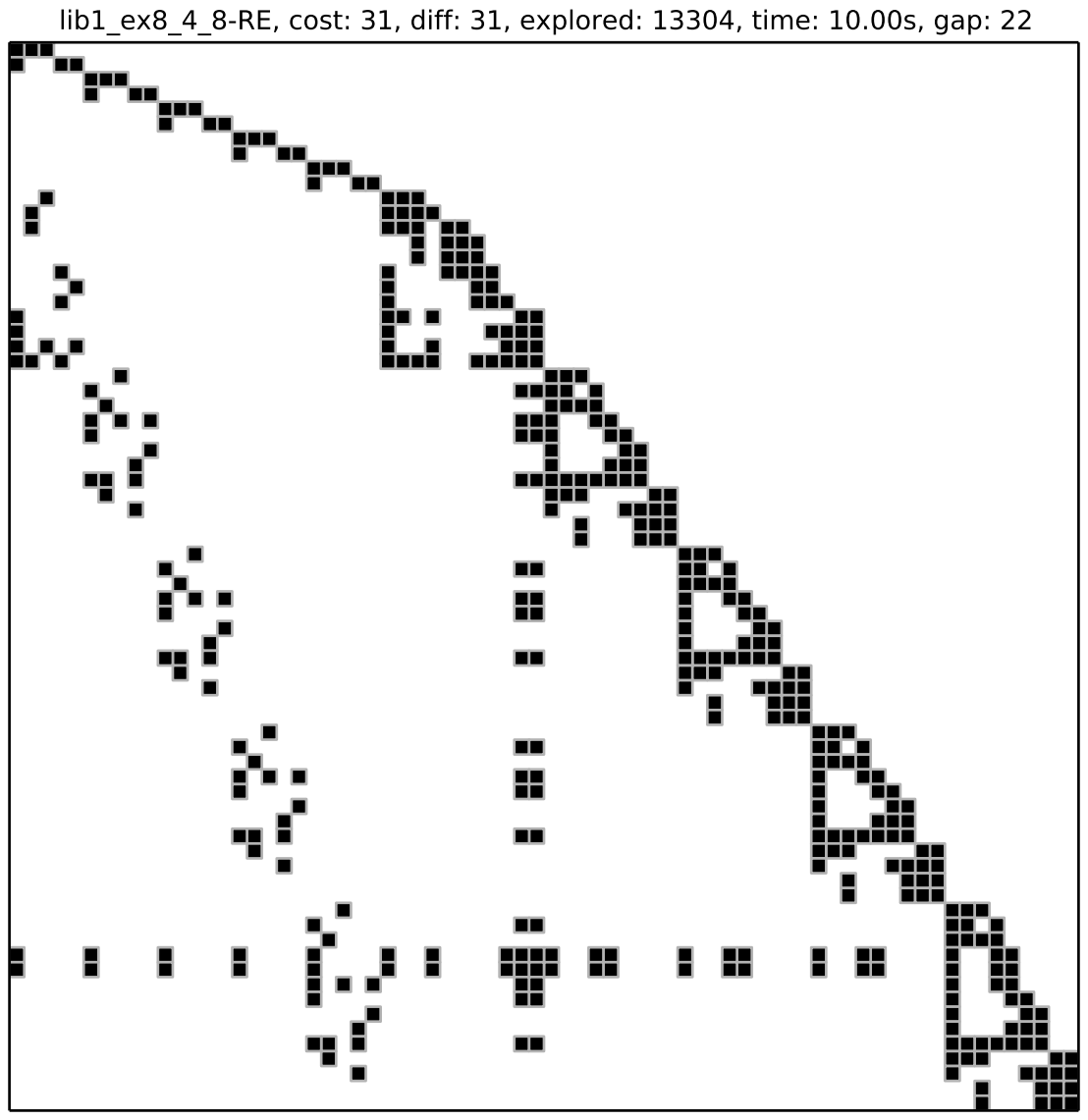



lib1_ex8_4_8-09, cost: 30, diff: 30, explored: 15729, time: 10.00s, gap: 21


lib1_ex8_4_8-IN 72x72 (424) con: 30, var: 42


lib1_ex8_4_8-IN, cost: 32, diff: 32, explored: 17858, time: 10.00s, gap: 22


lib1_ex8_4_8-RE 72x72 (424) con: 30, var: 42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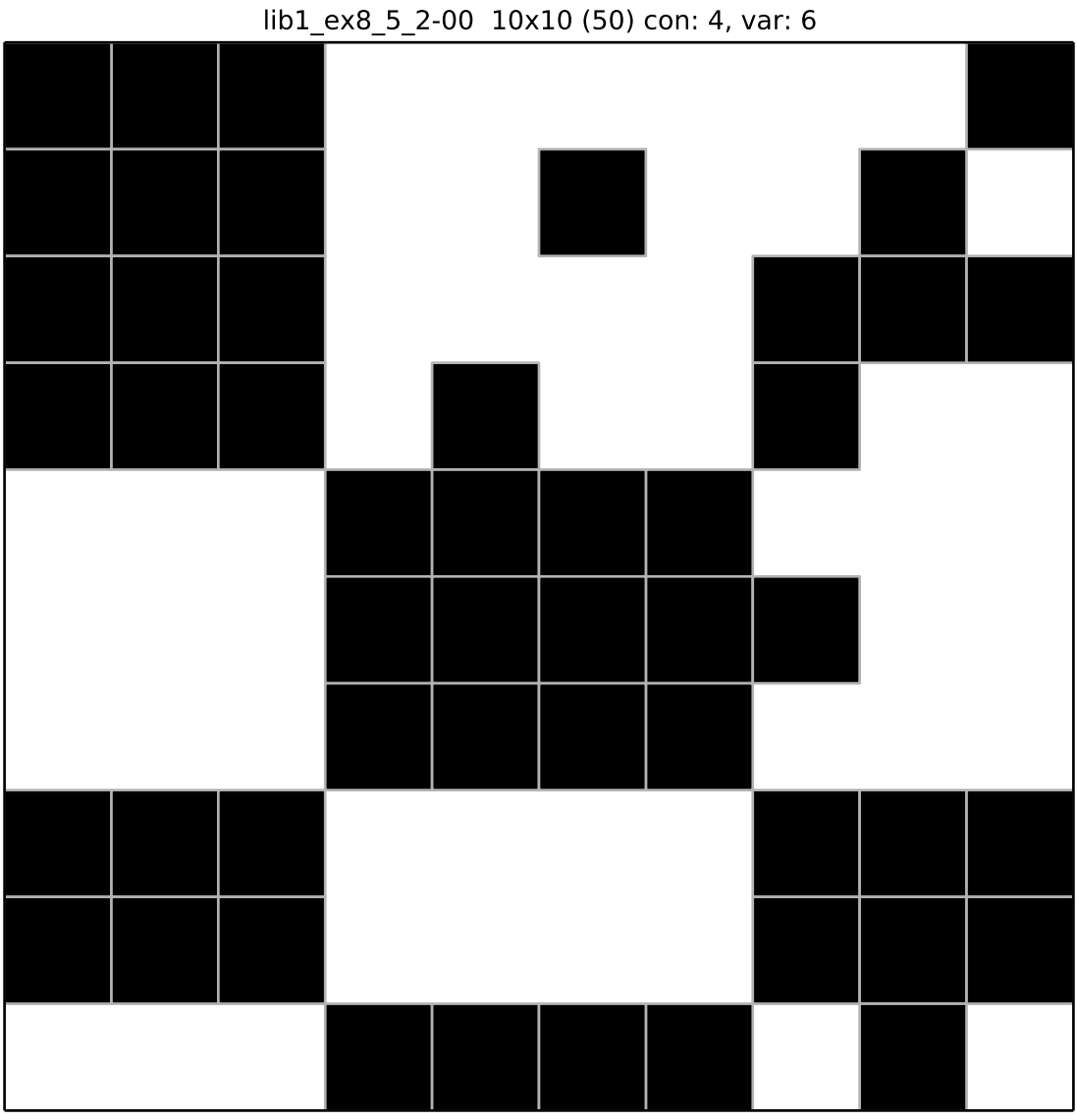
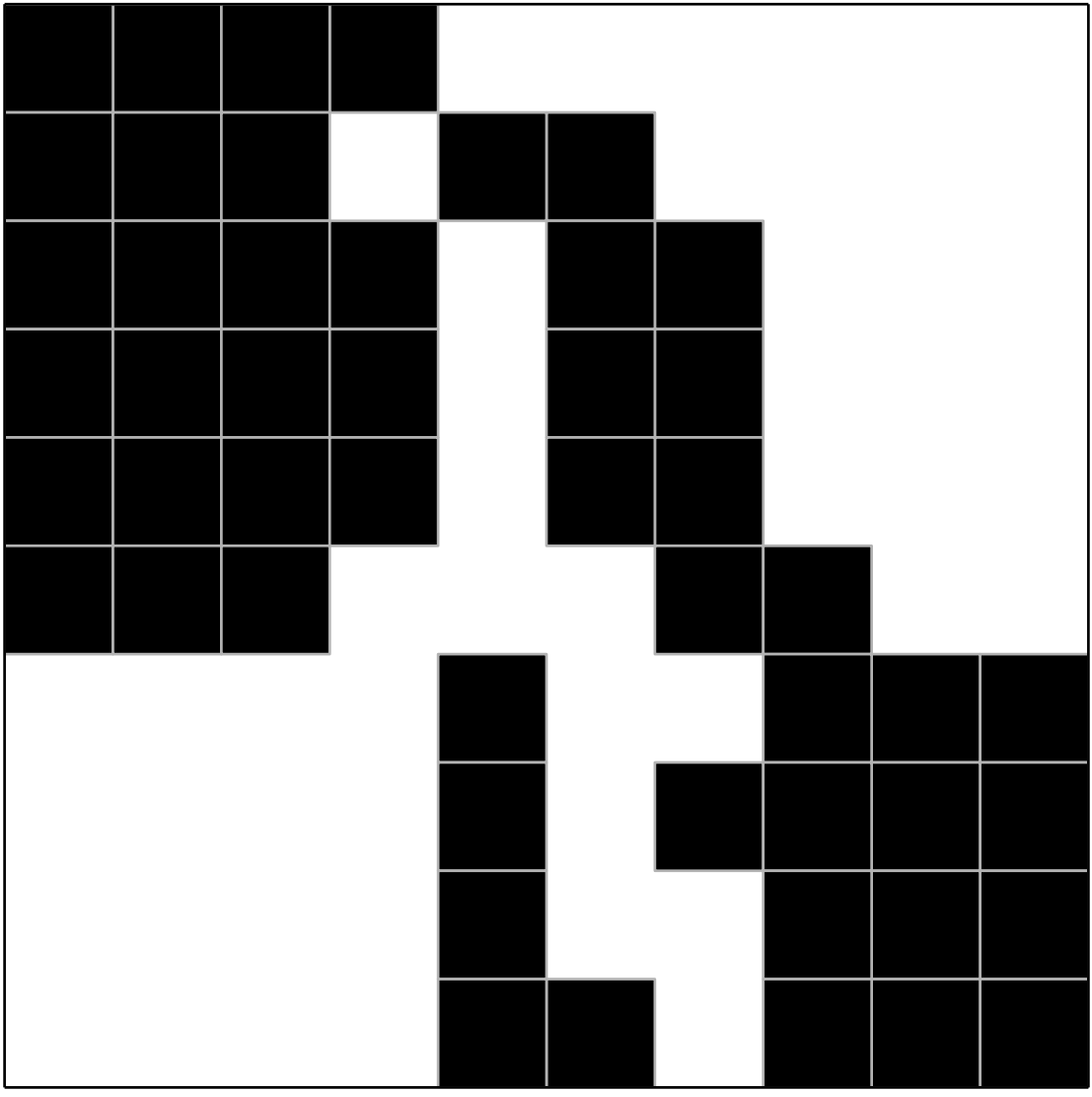
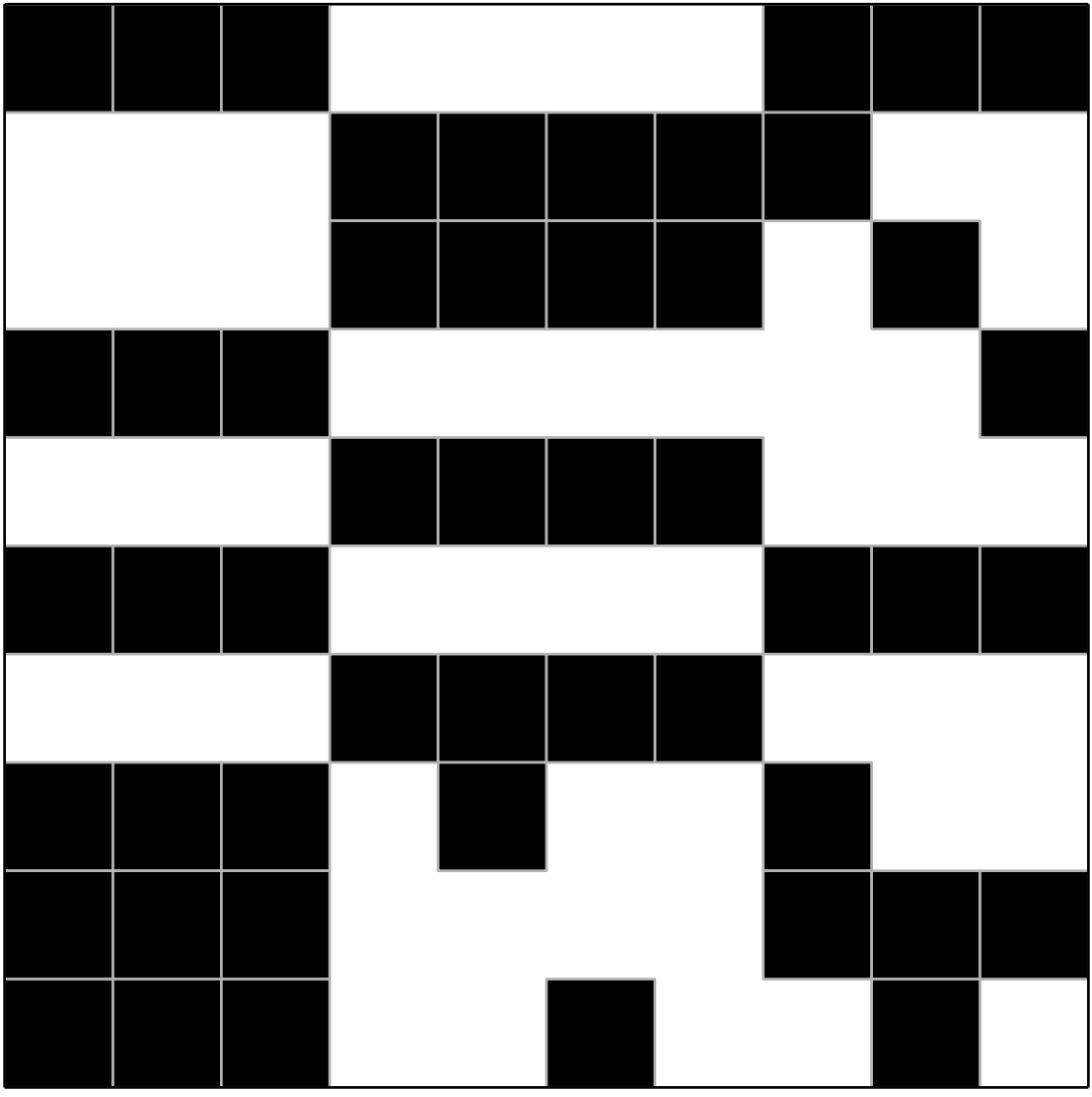

lib1_ex8_5_2-00 10x10 (50) con: 4, var: 6

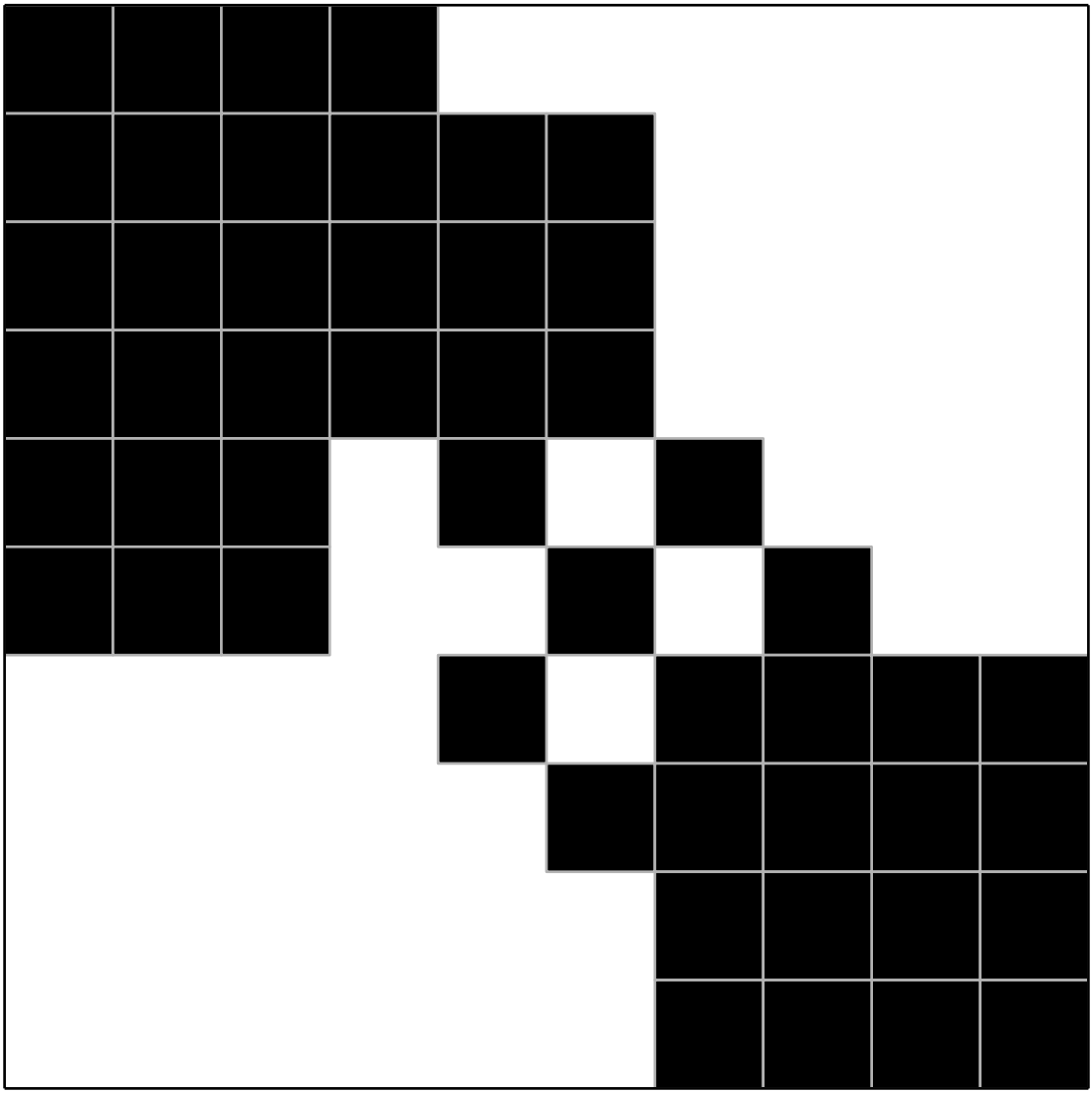
lib1_ex8_5_2-00, cost: 5, diff: 5, explored: 4, time: 0.00s



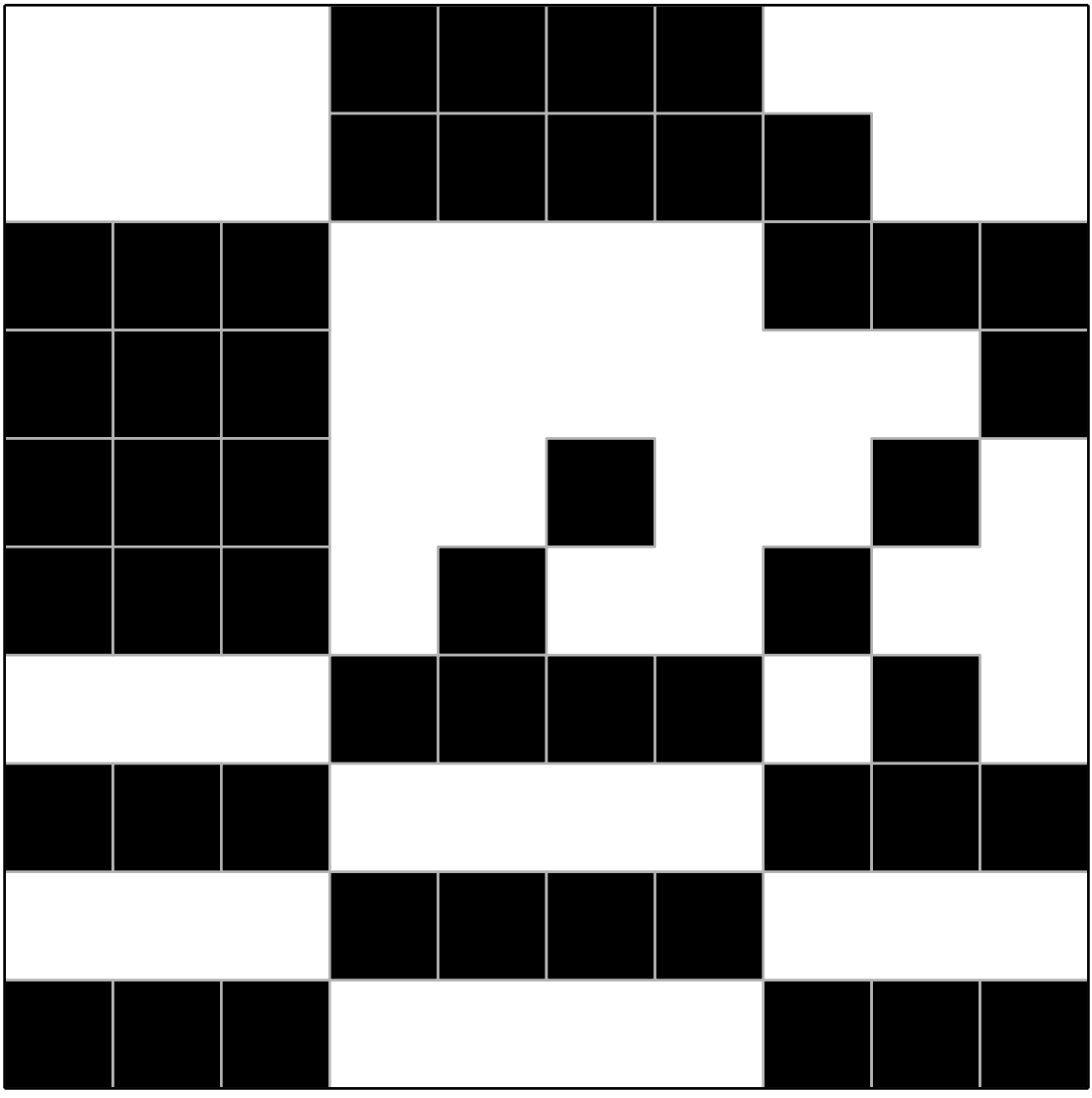
lib1_ex8_5_2-01 10x10 (50) con: 4, var: 6

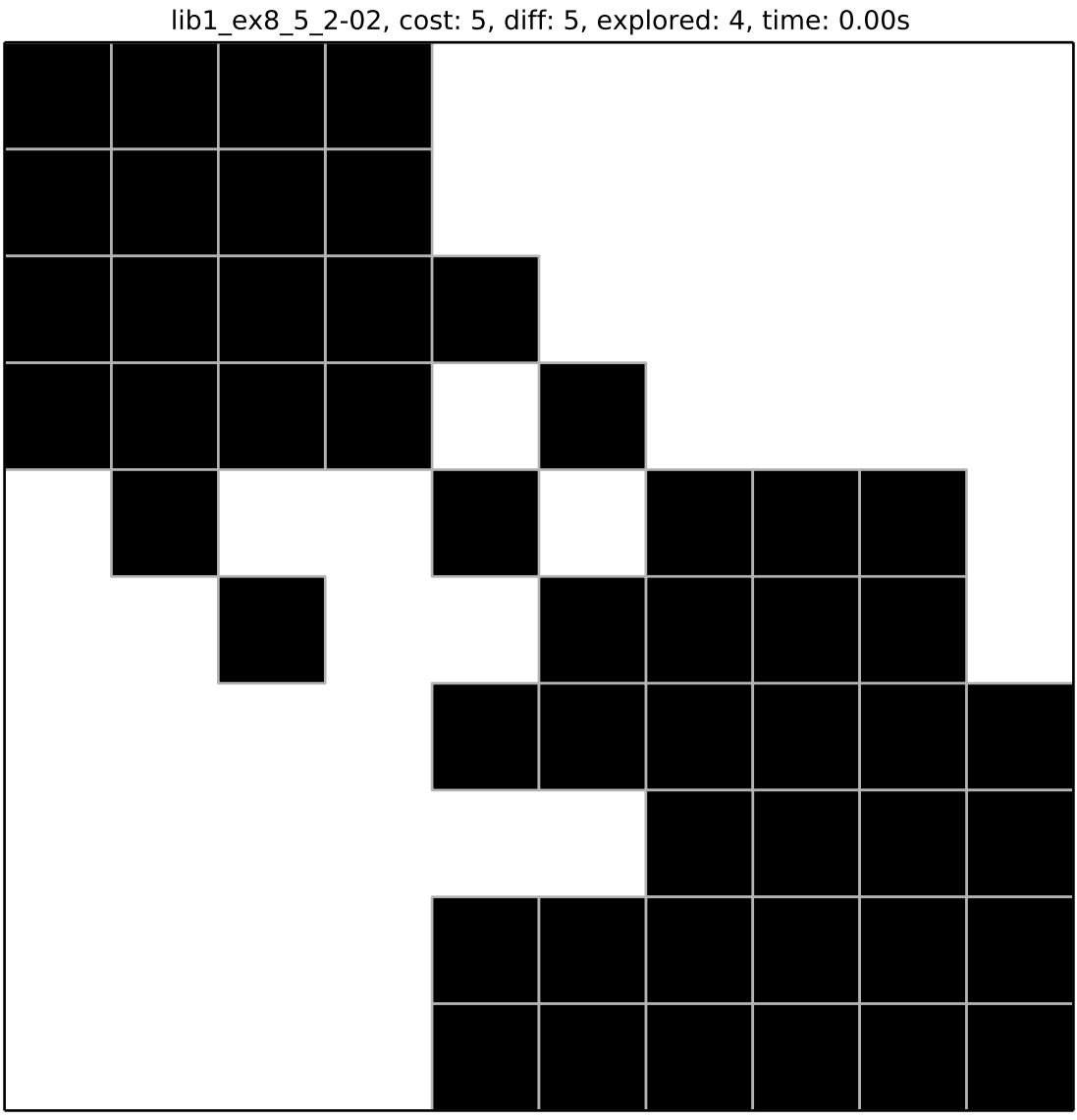


lib1_ex8_5_2-01, cost: 5, diff: 5, explored: 4, time: 0.00s

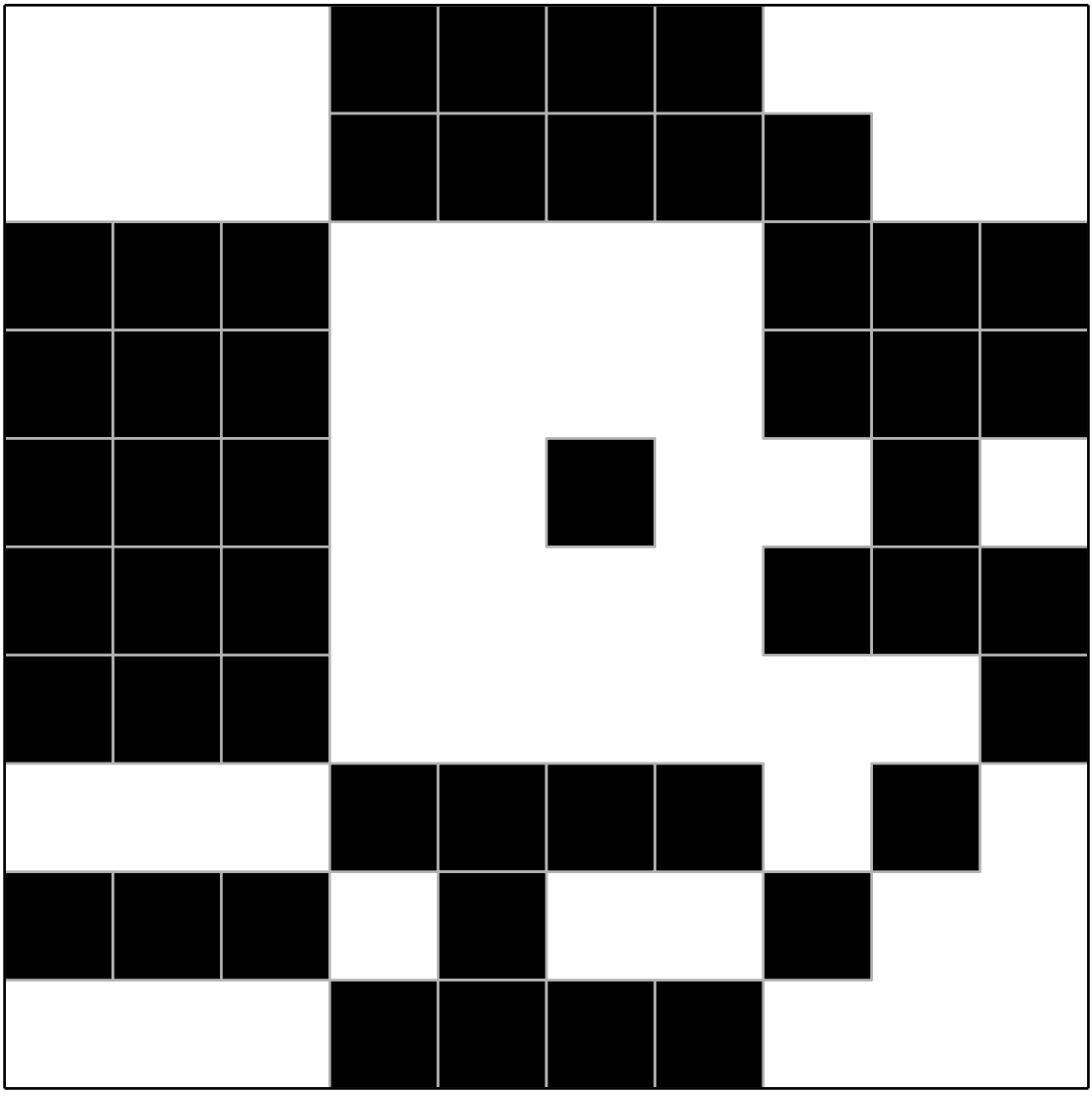


lib1_ex8_5_2-02 10x10 (50) con: 4, var: 6

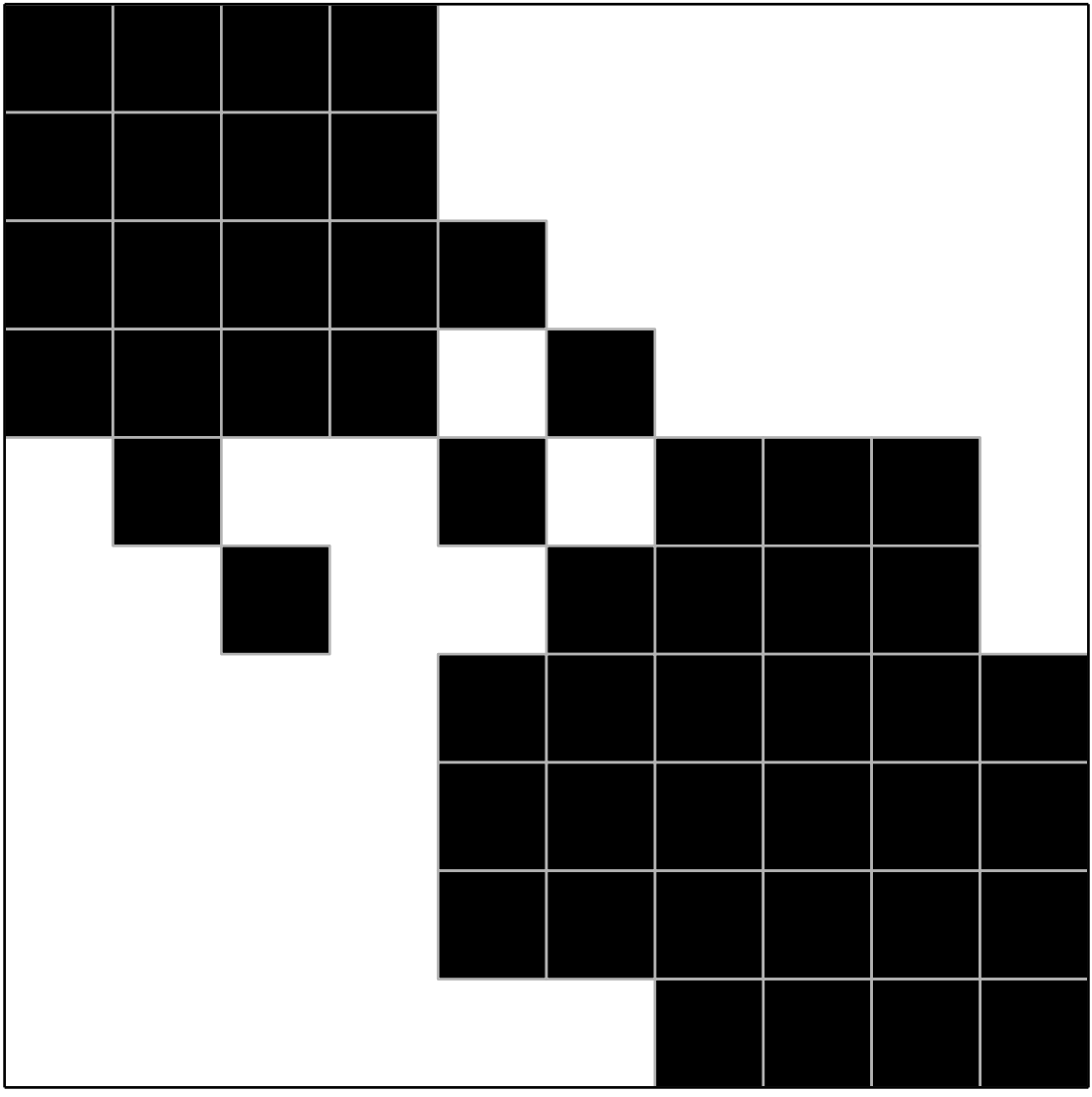



lib1_ex8_5_2-02, cost: 5, diff: 5, explored: 4, time: 0.00s

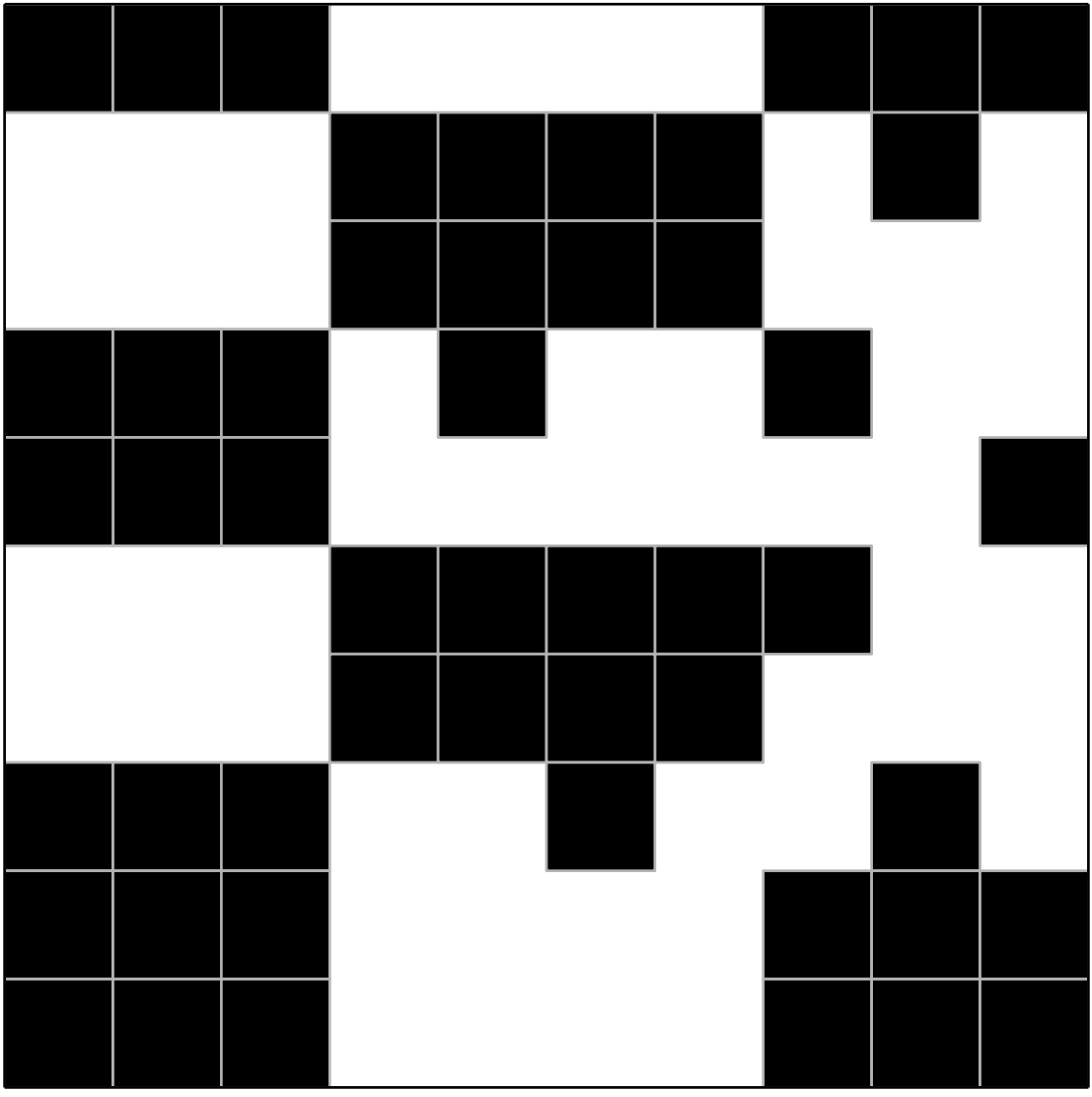
lib1_ex8_5_2-03 10x10 (50) con: 4, var: 6



lib1_ex8_5_2-03, cost: 5, diff: 5, explored: 4, time: 0.00s



lib1_ex8_5_2-04 10x10 (50) con: 4, var: 6



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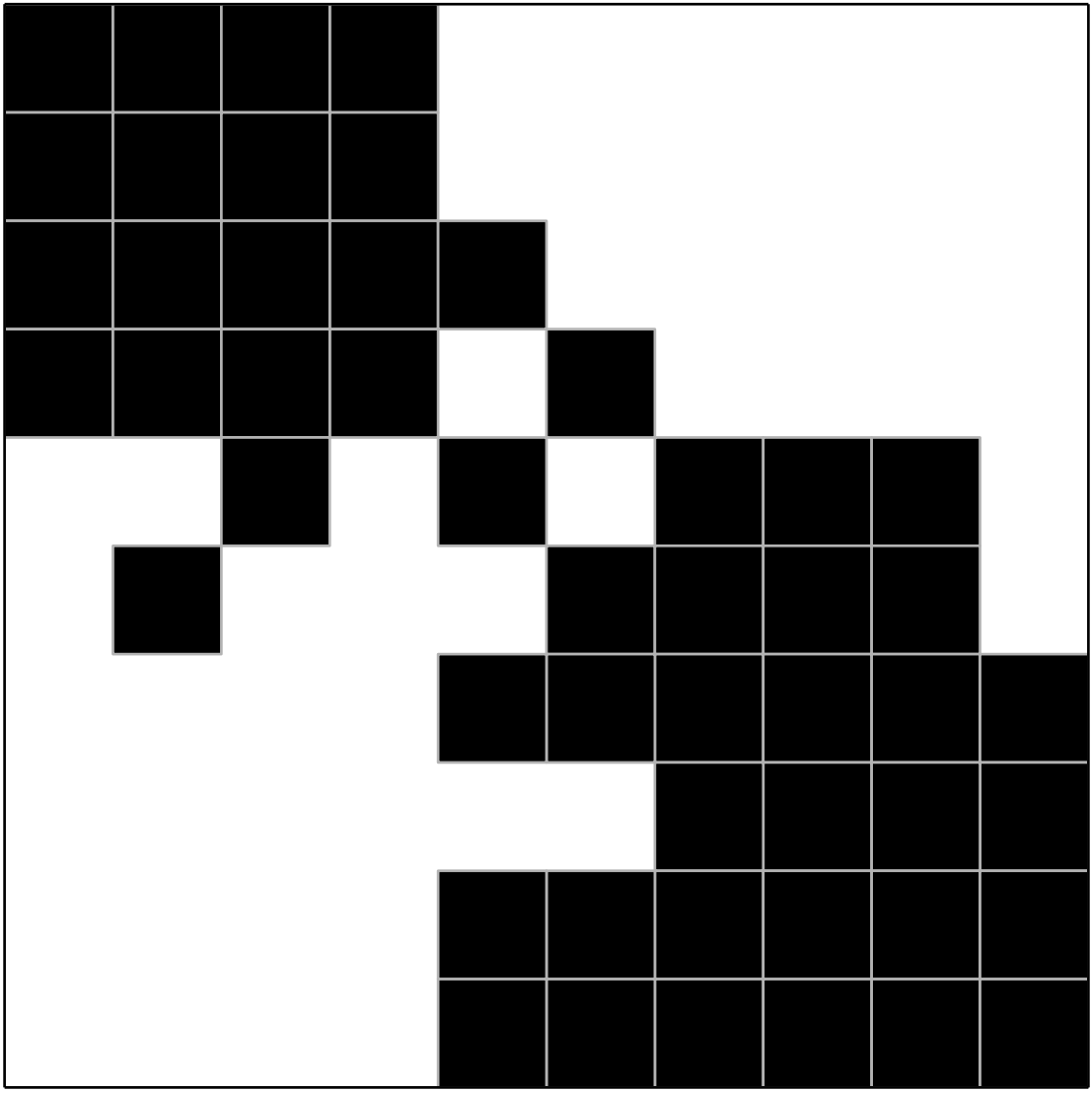
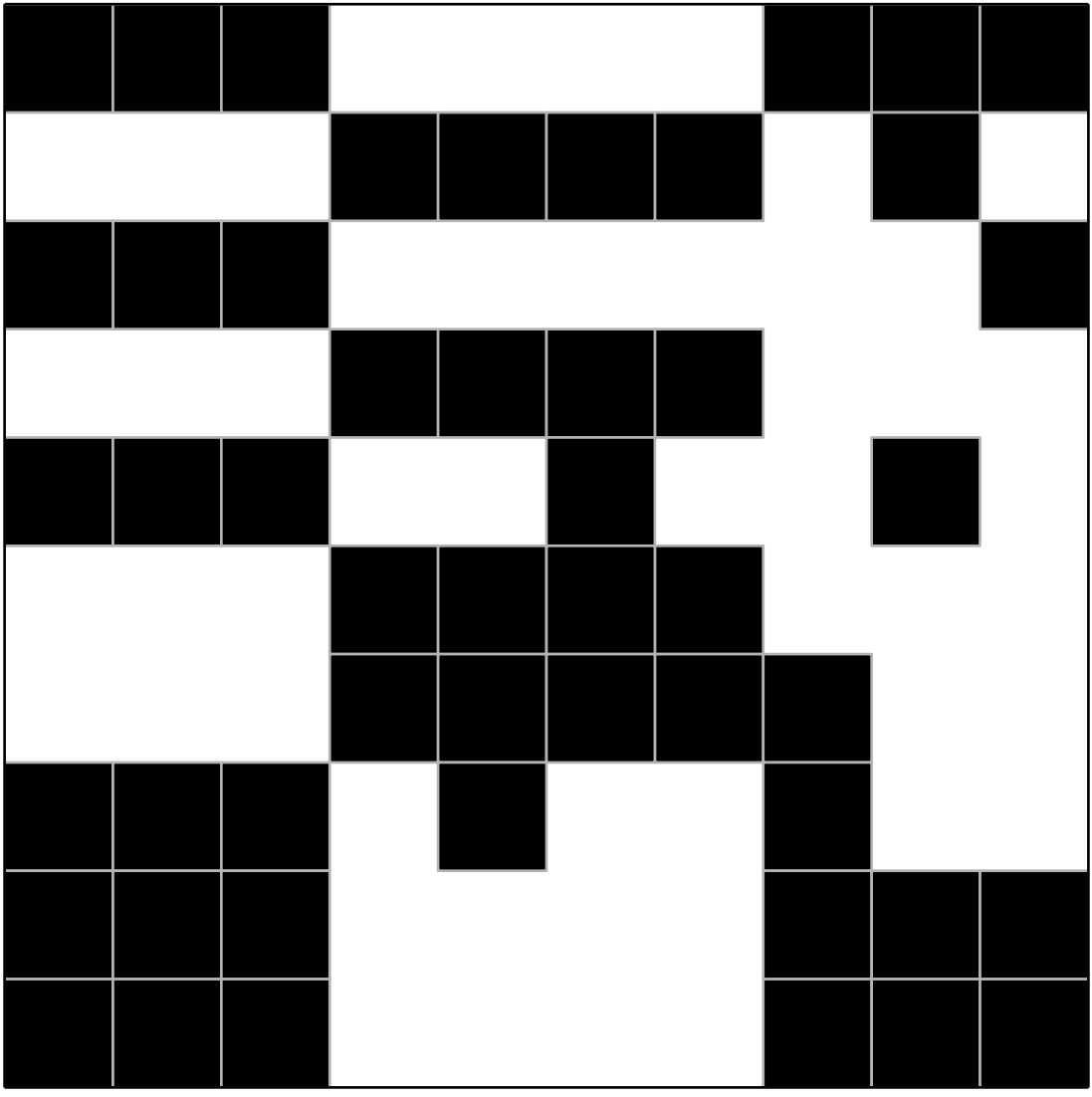
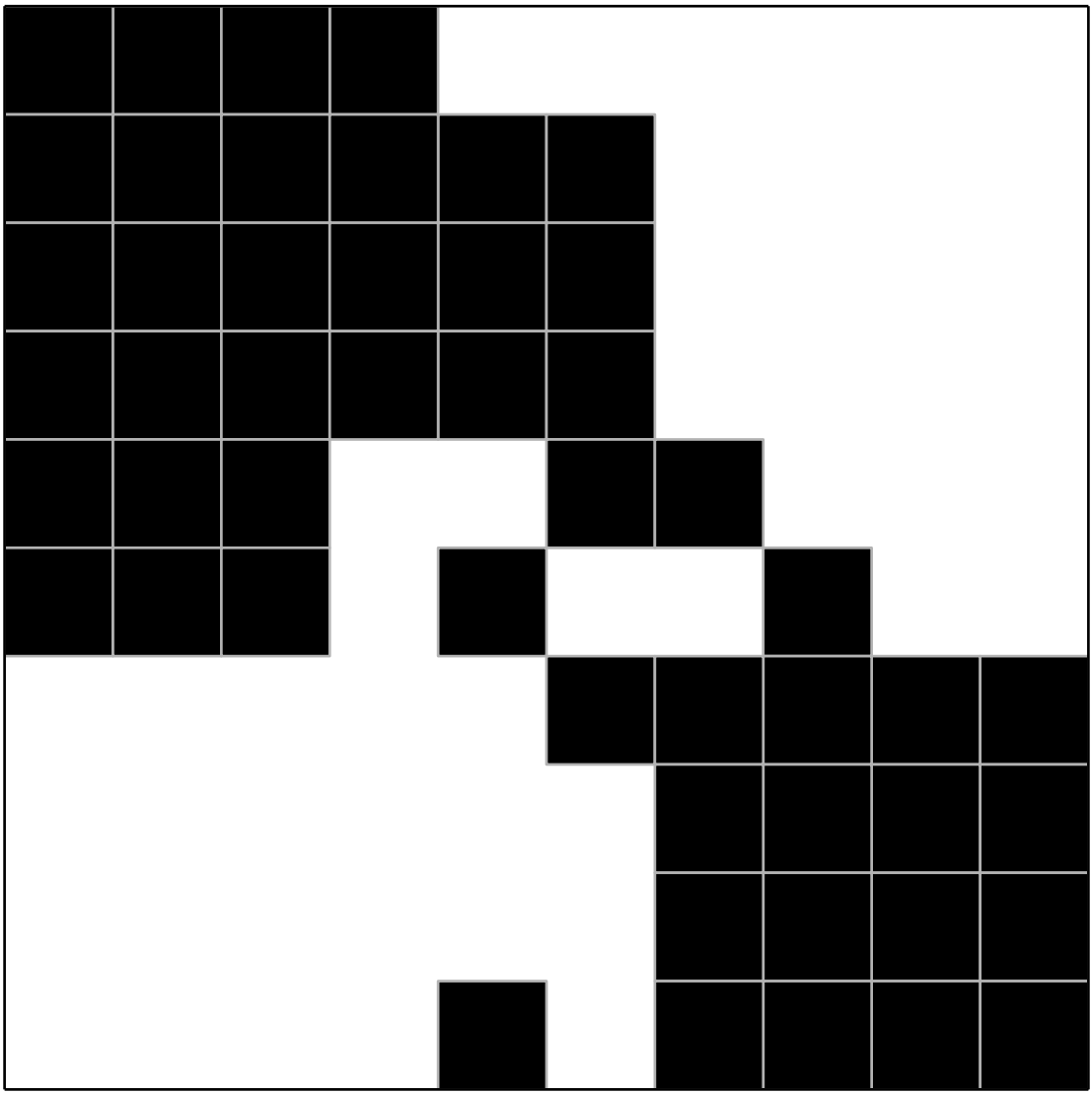
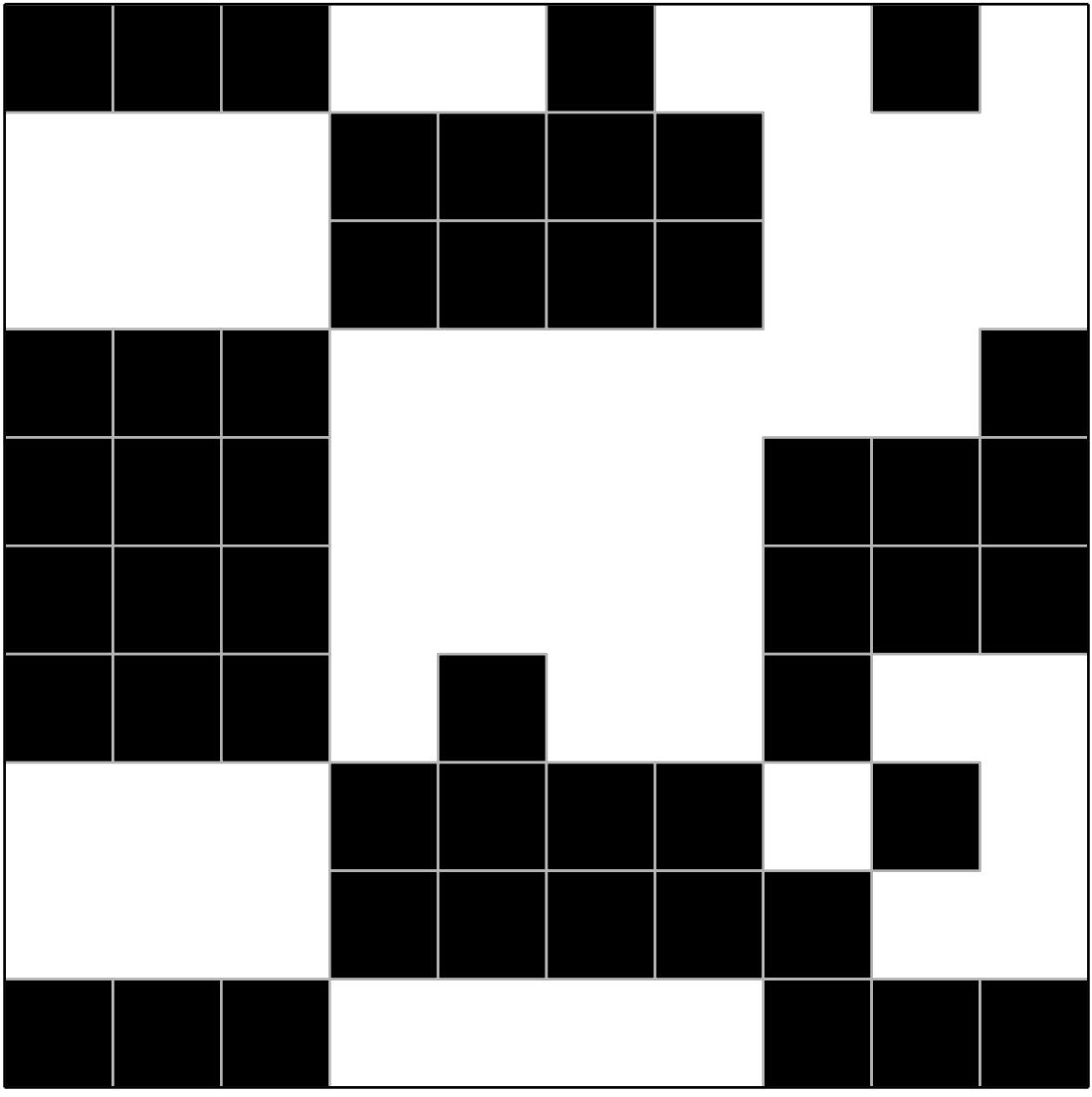


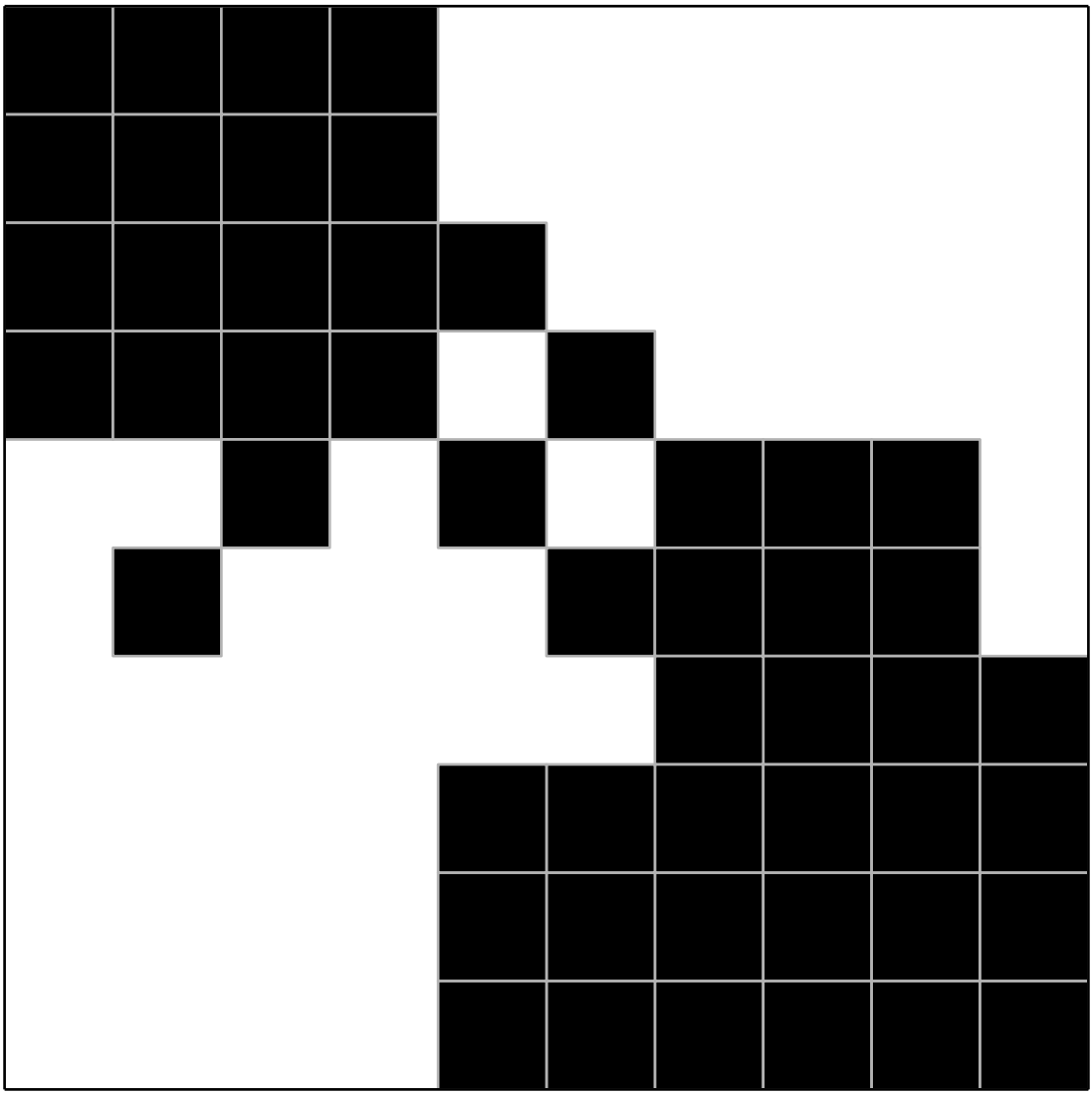
lib1_ex8_5_2-05 10x10 (50) con: 4, var: 6




lib1_ex8_5_2-05, cost: 5, diff: 5, explored: 4, time: 0.00s

lib1_ex8_5_2-06 10x10 (50) con: 4, var: 6

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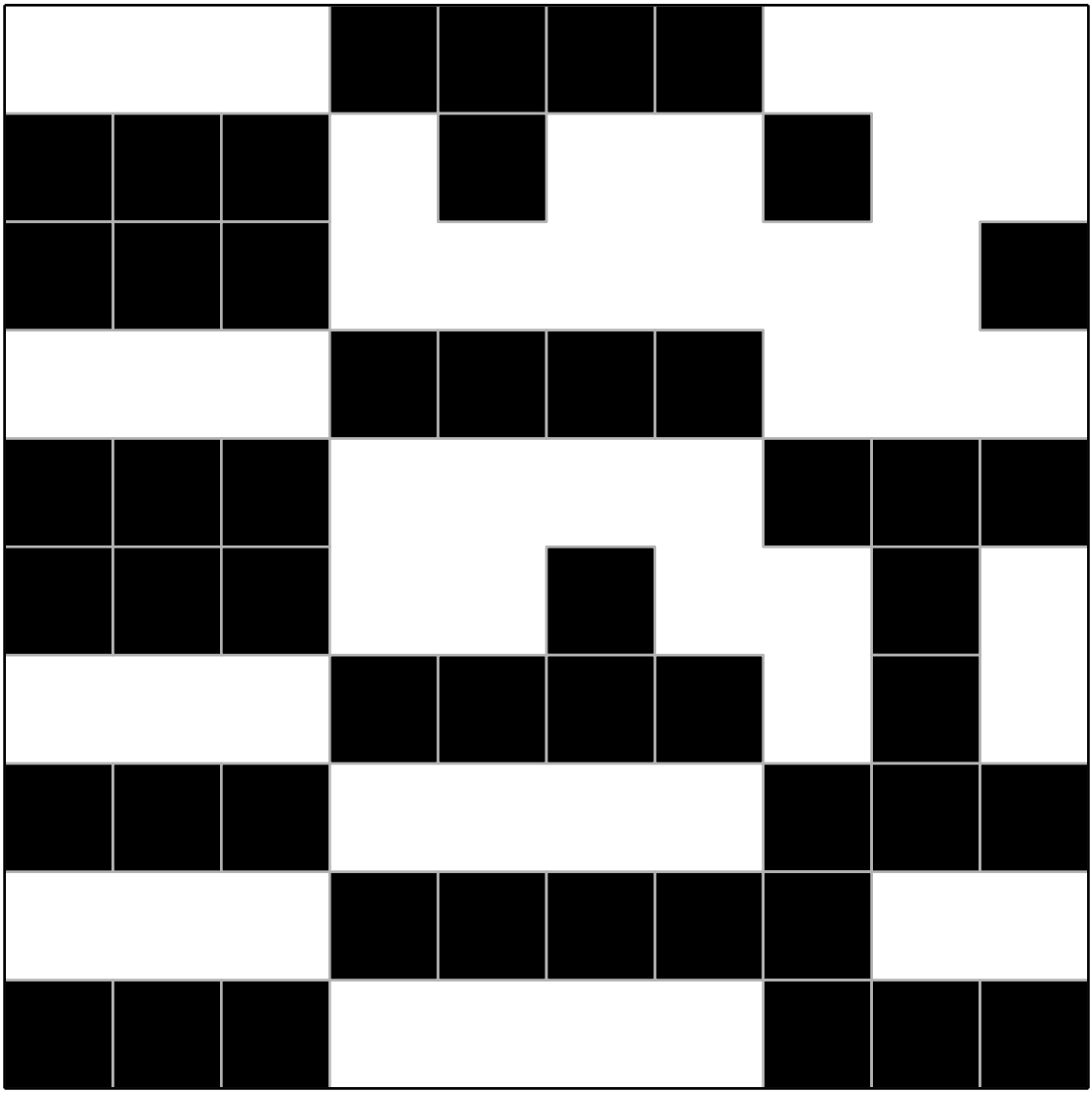
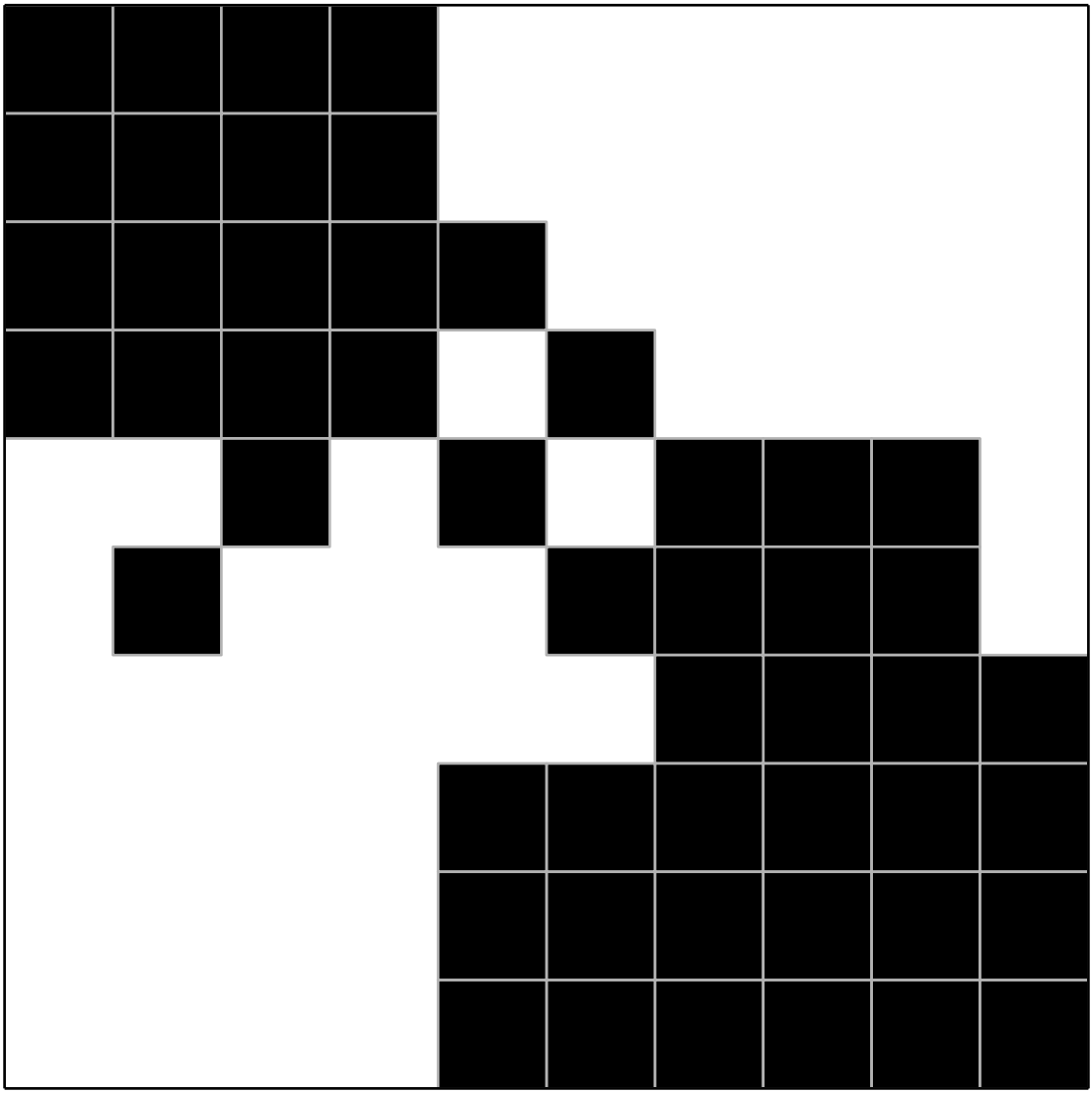
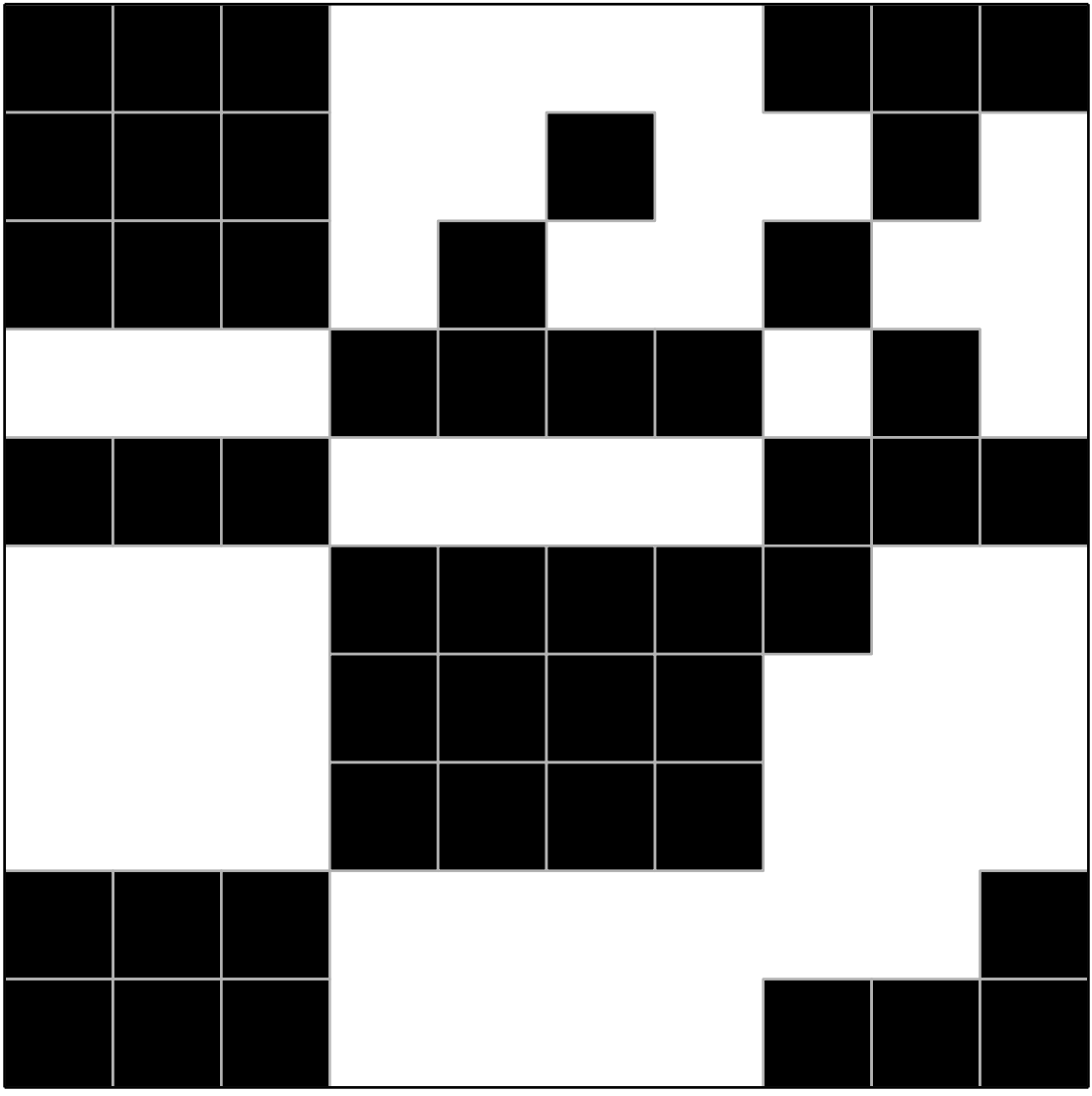
lib1_ex8_5_2-07 10x10 (50) con: 4, var: 6



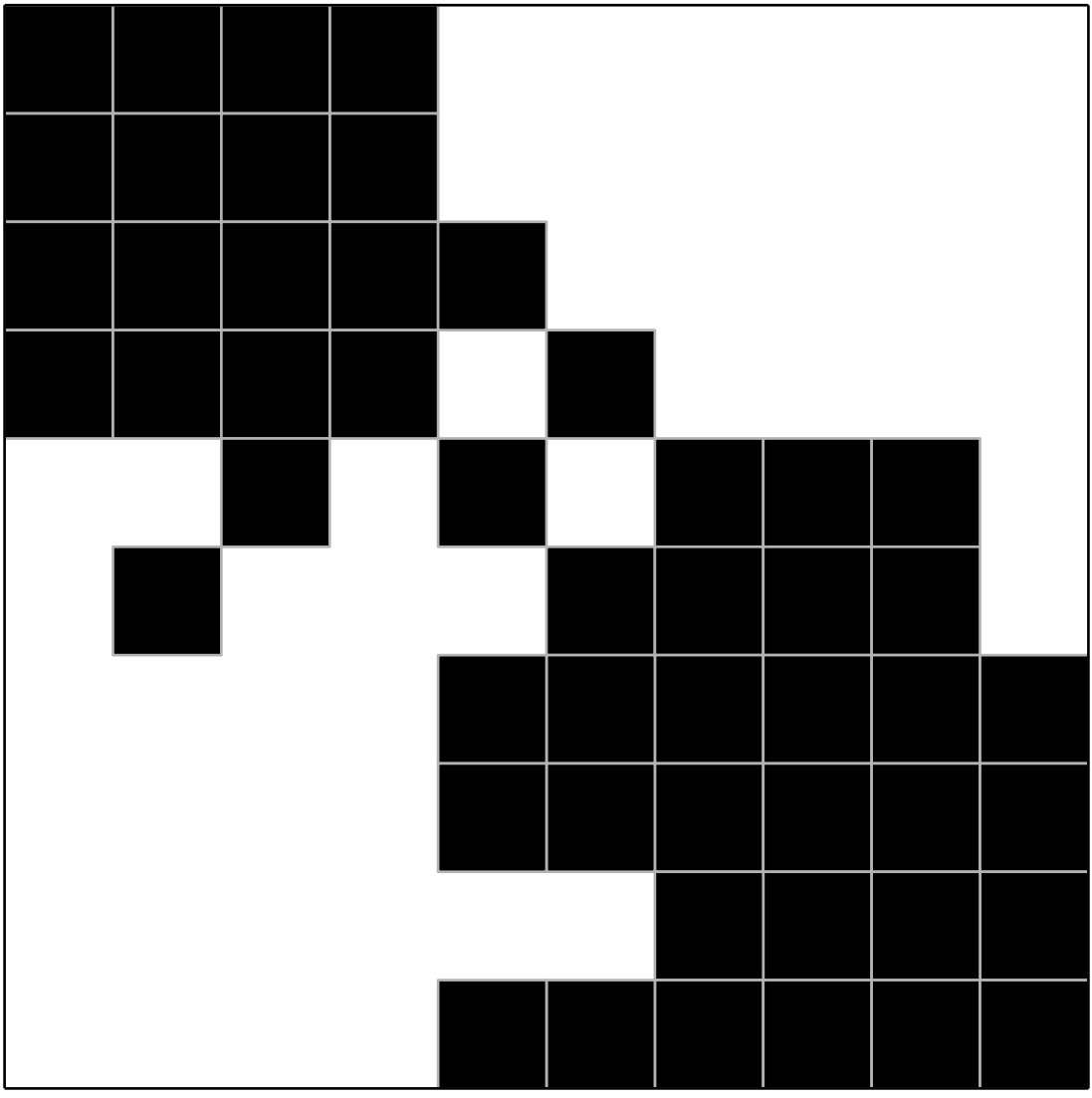
lib1_ex8_5_2-07, cost: 5, diff: 5, explored: 4, time: 0.00s



lib1_ex8_5_2-08 10x10 (50) con: 4, var: 6



lib1_ex8_5_2-08, cost: 5, diff: 5, explored: 4, time: 0.00s



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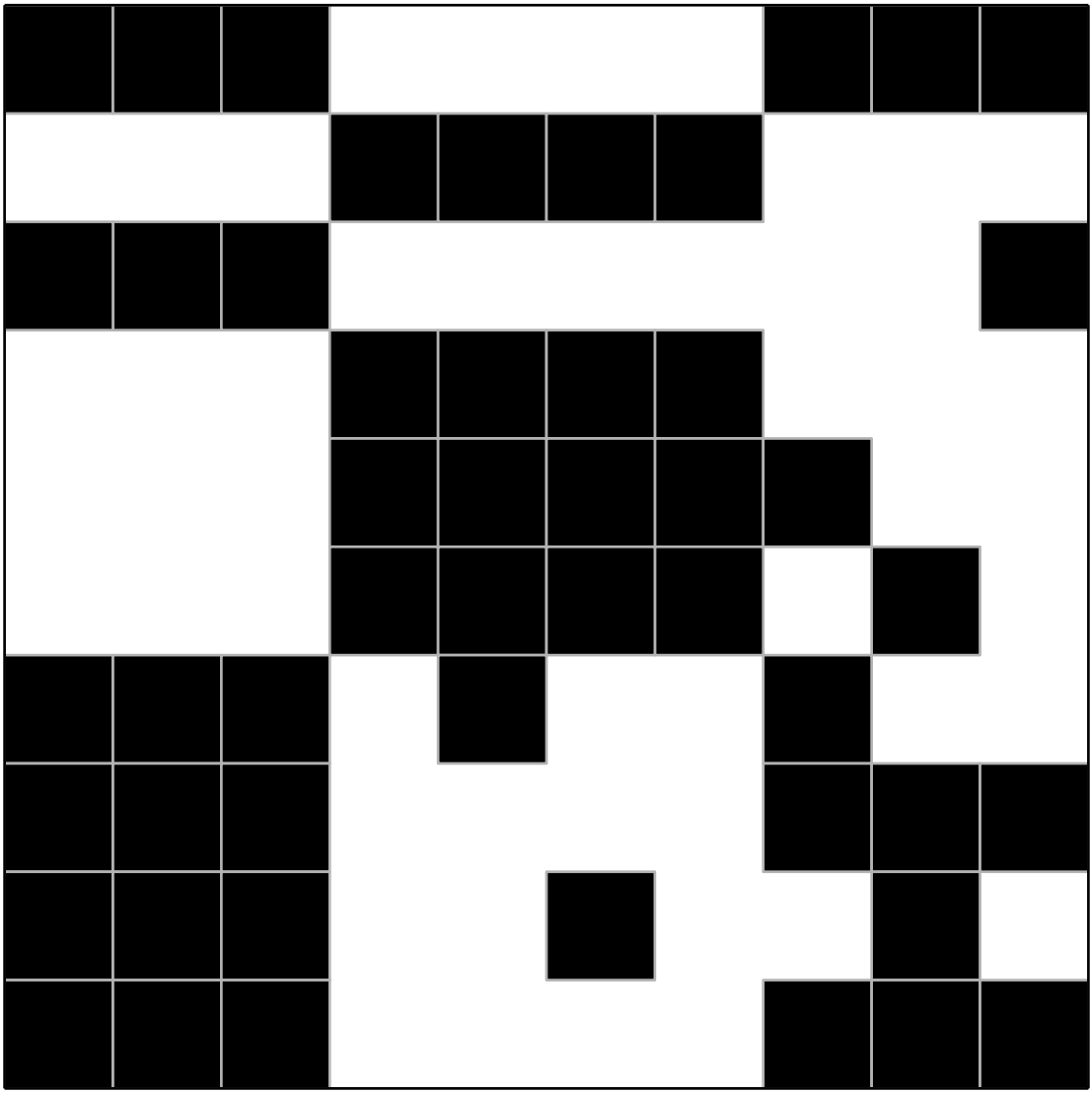

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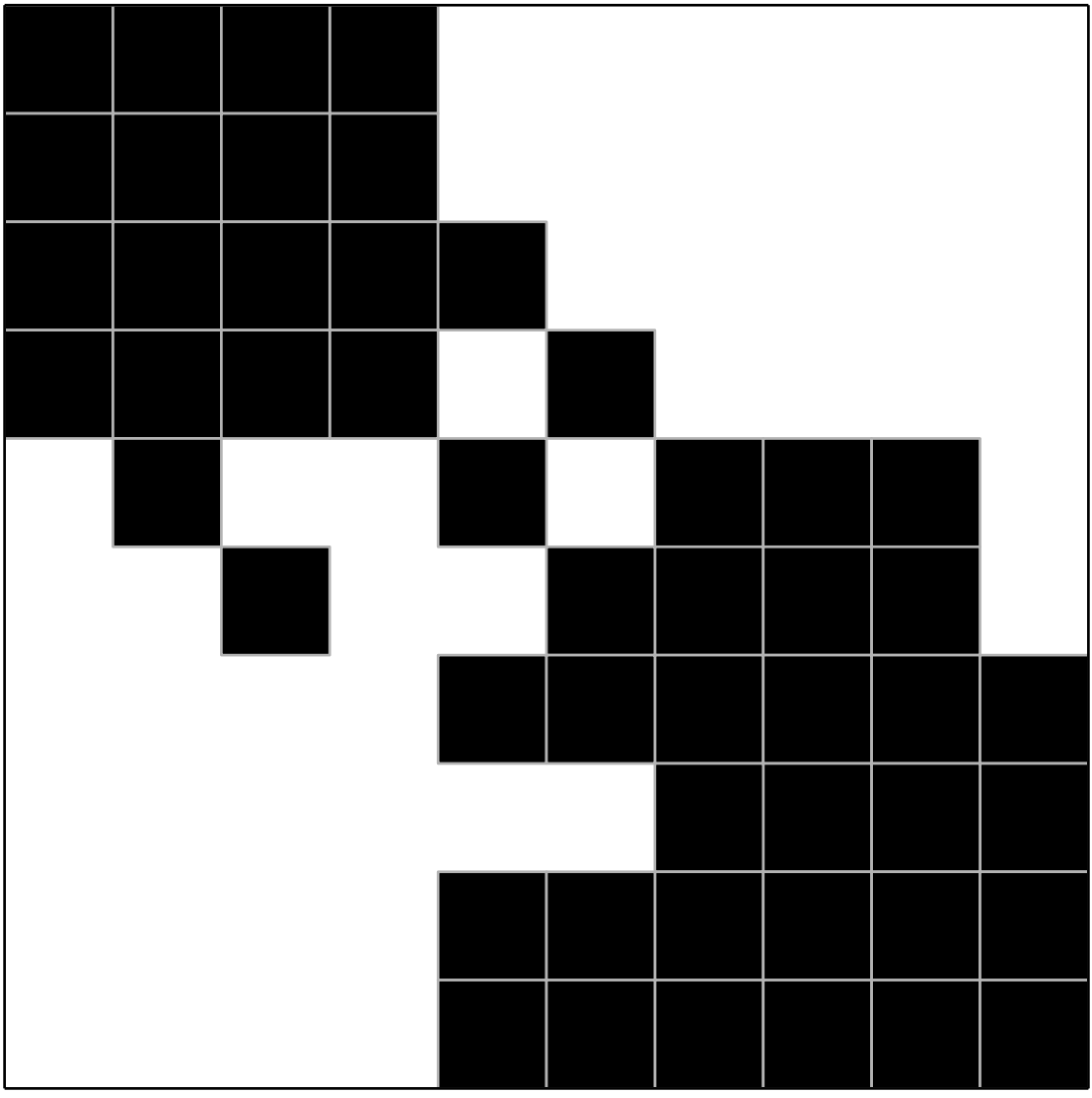
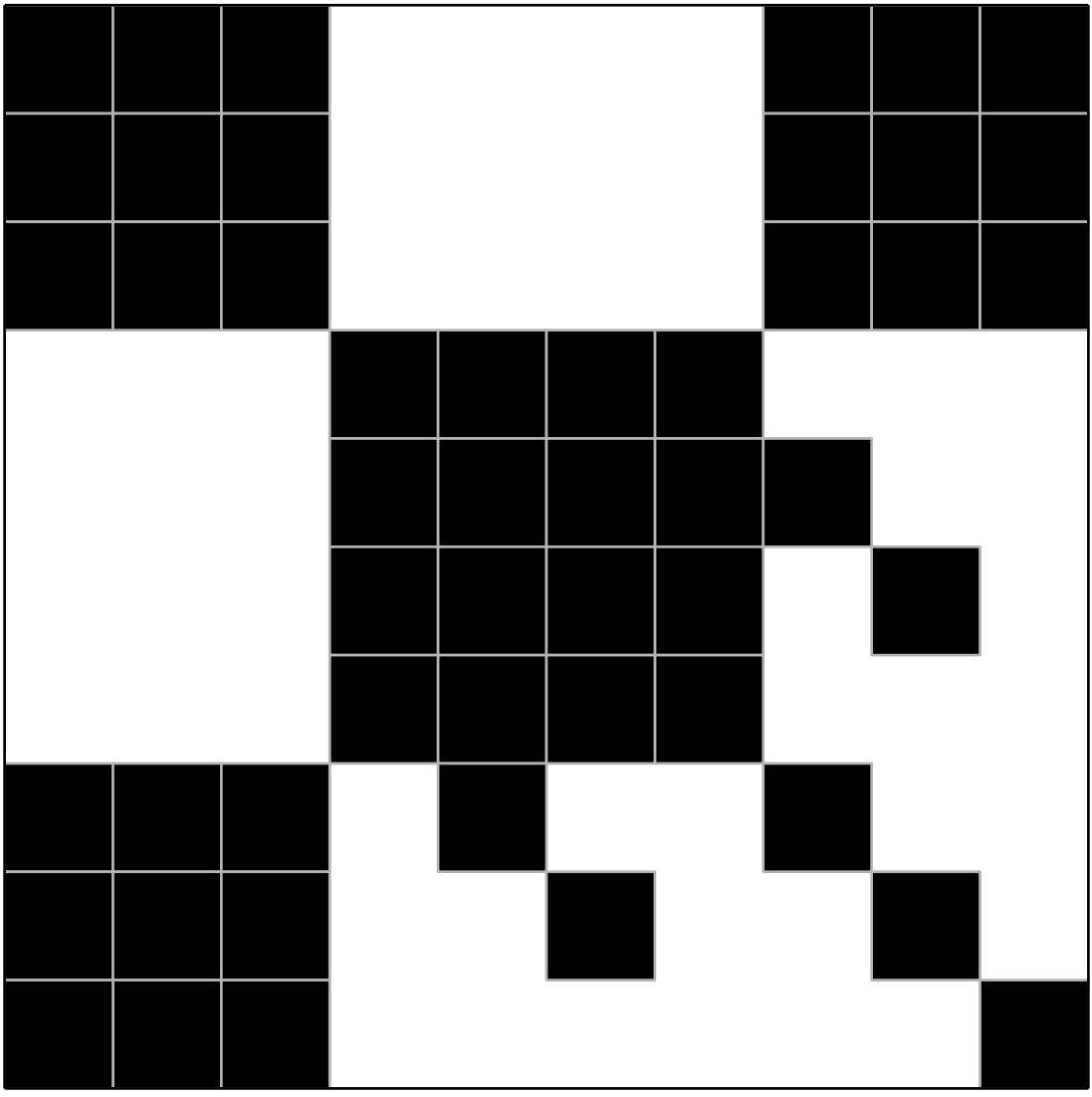
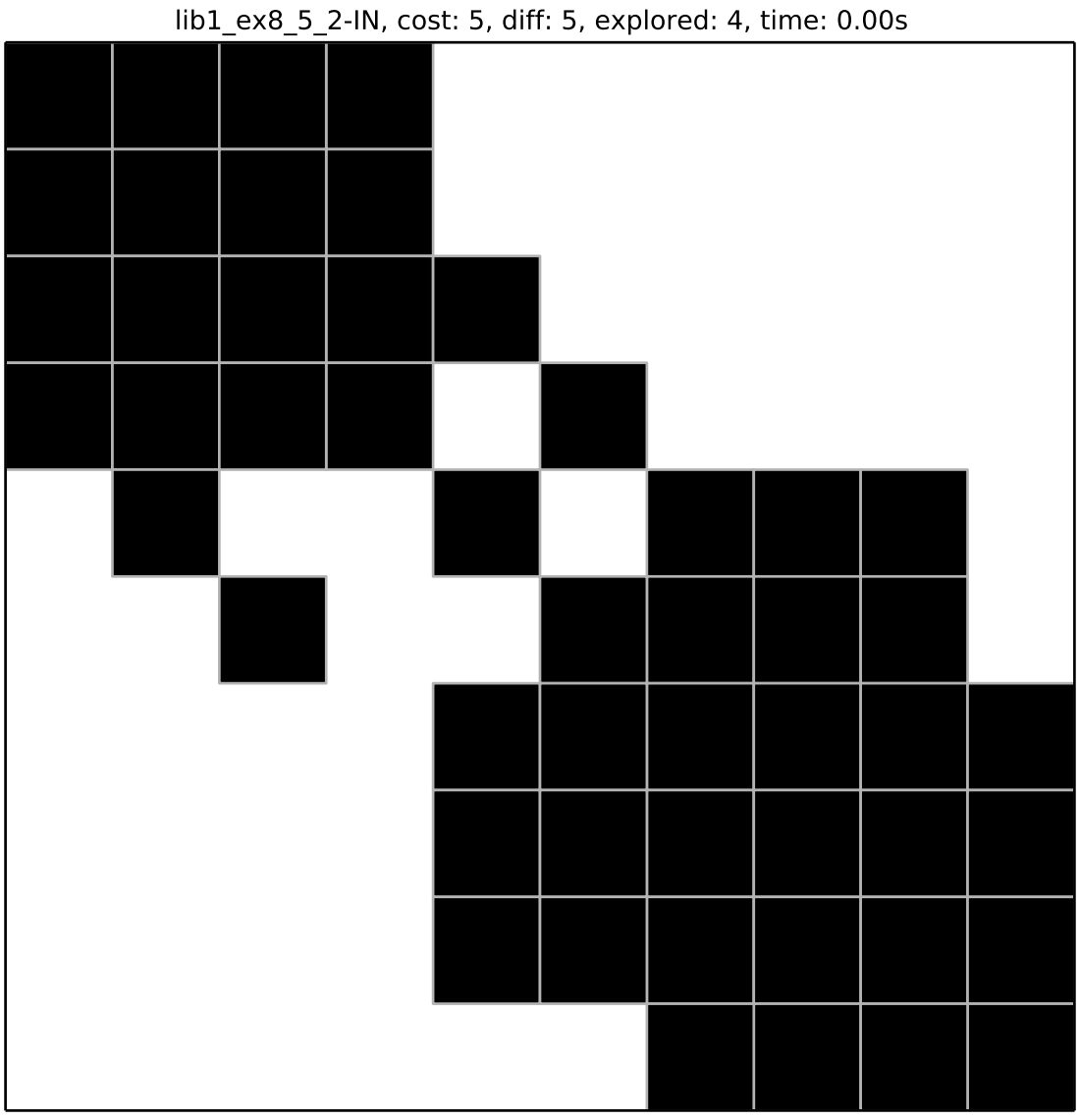
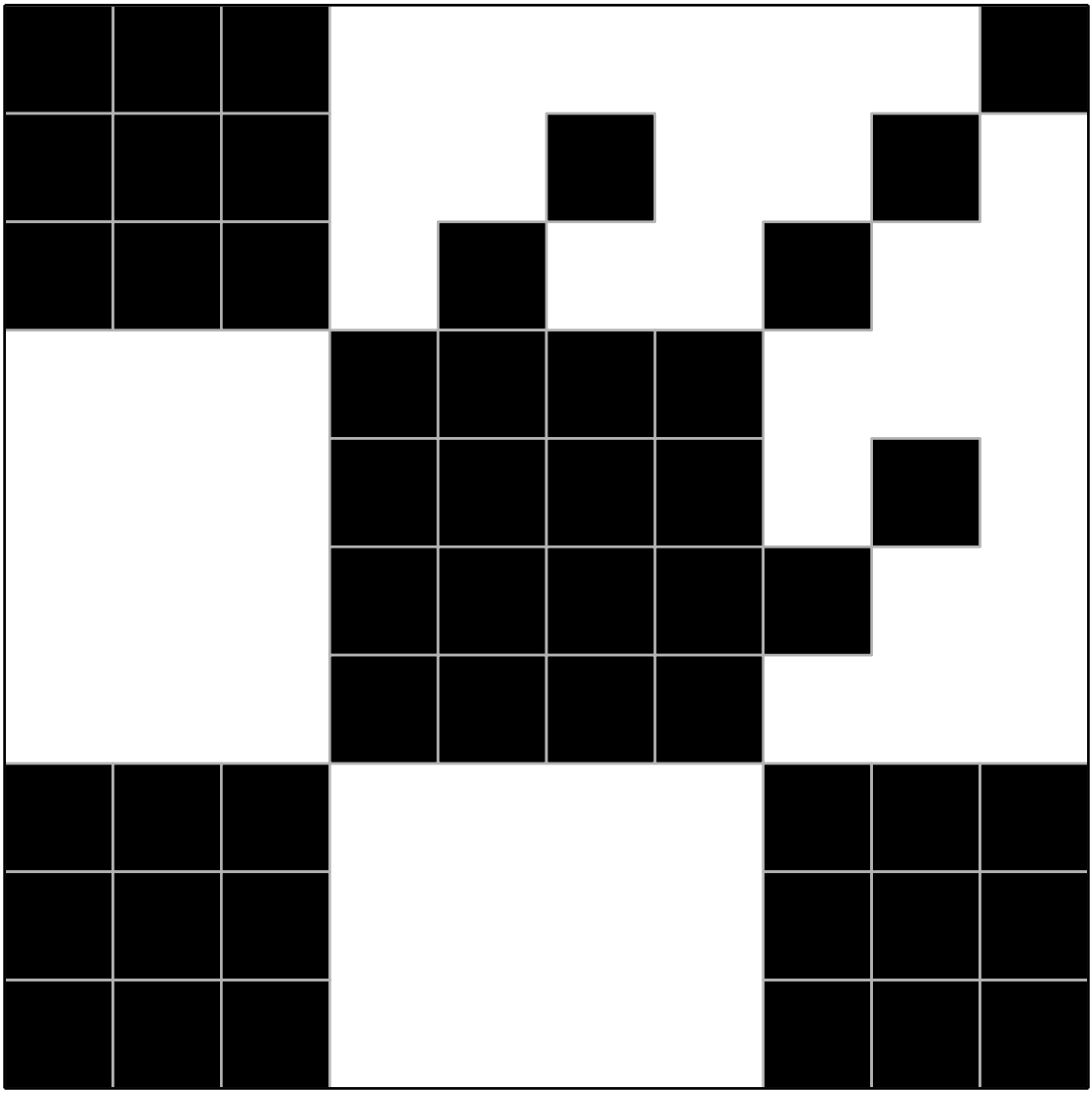


lib1_ex8_5_2-IN 10x10 (50) con: 4, var: 6




lib1_ex8_5_2-IN, cost: 5, diff: 5, explored: 4, time: 0.00s

lib1_ex8_5_2-RE 10x10 (50) con: 4, var: 6



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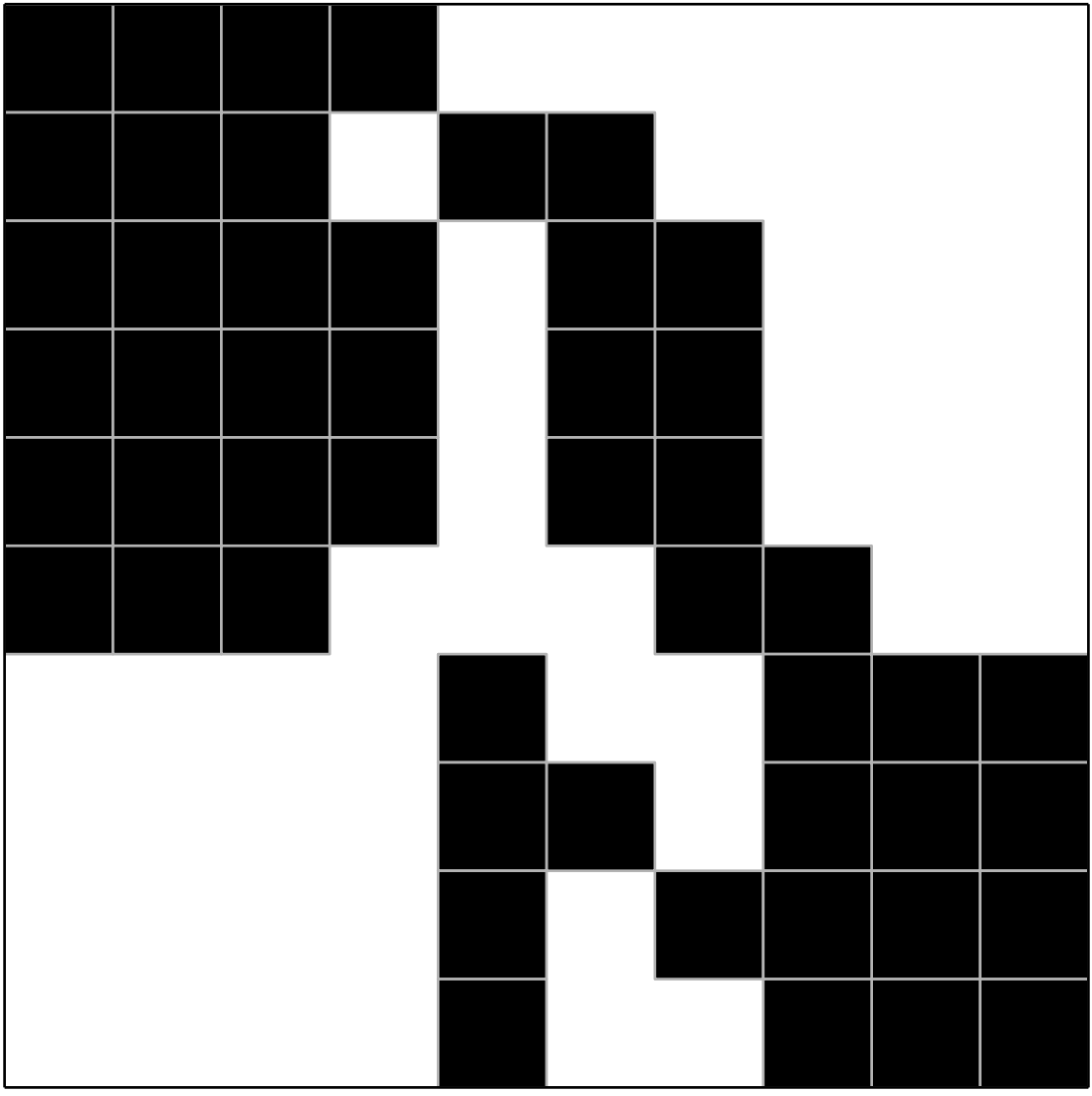
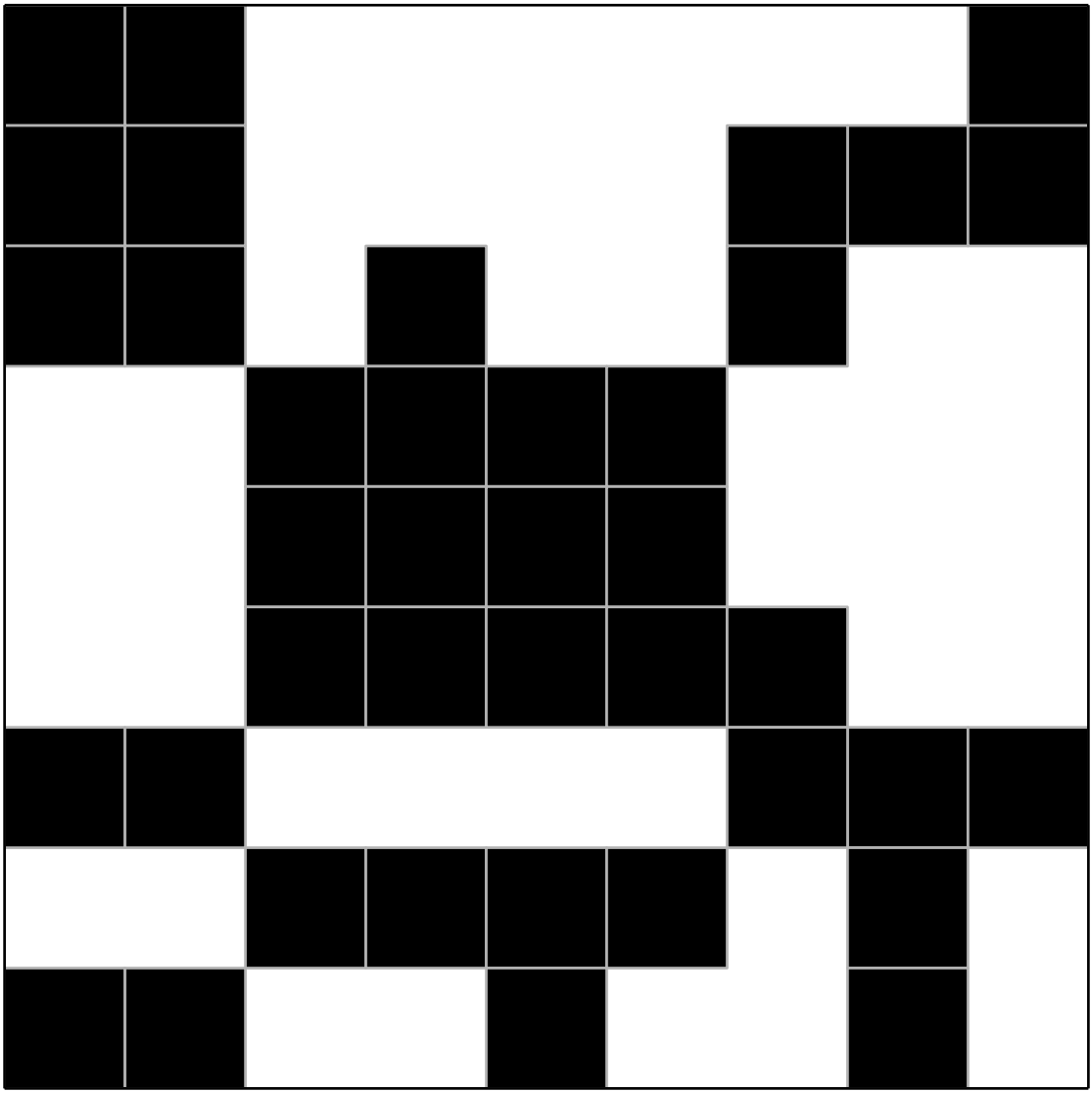
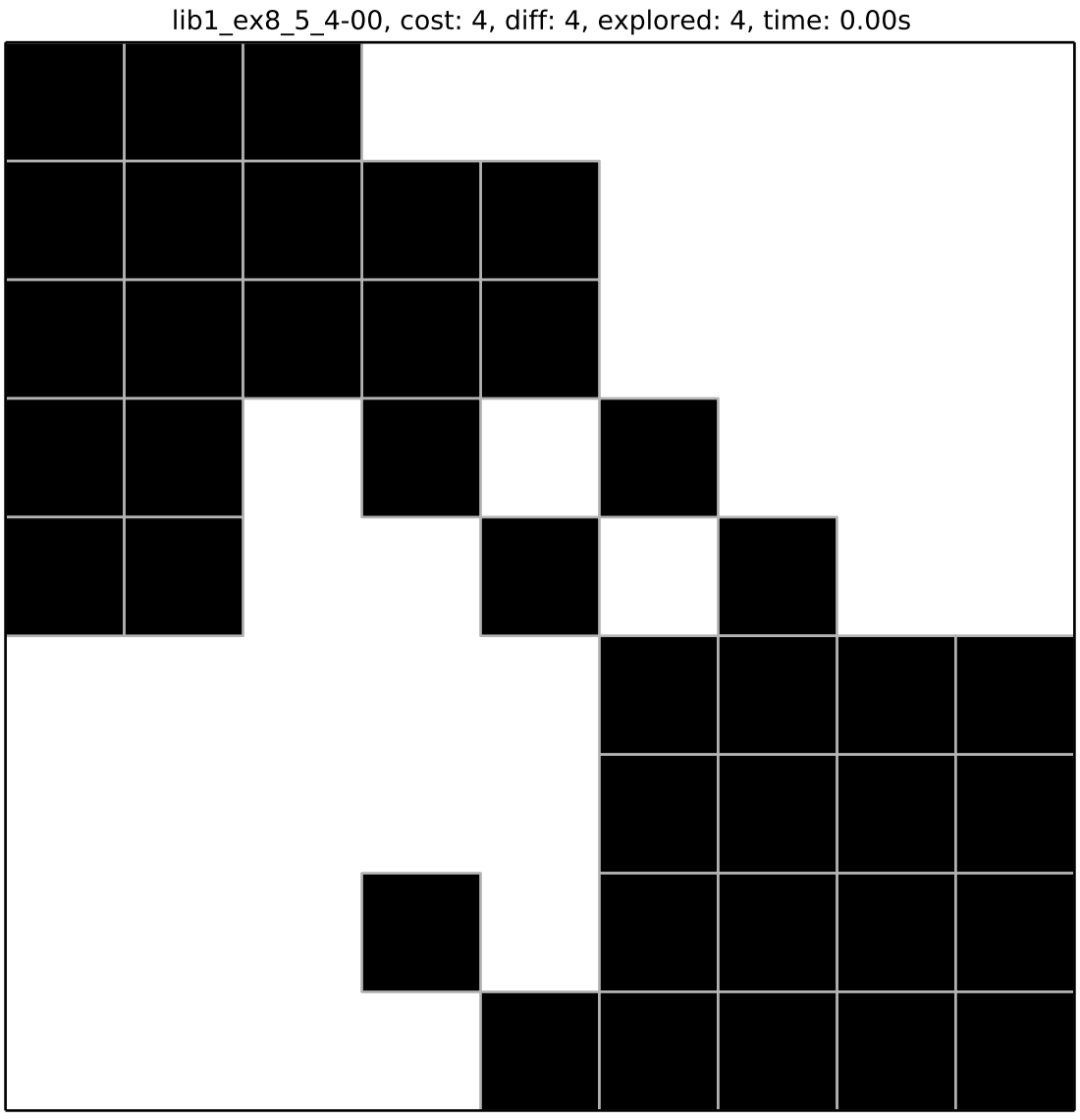
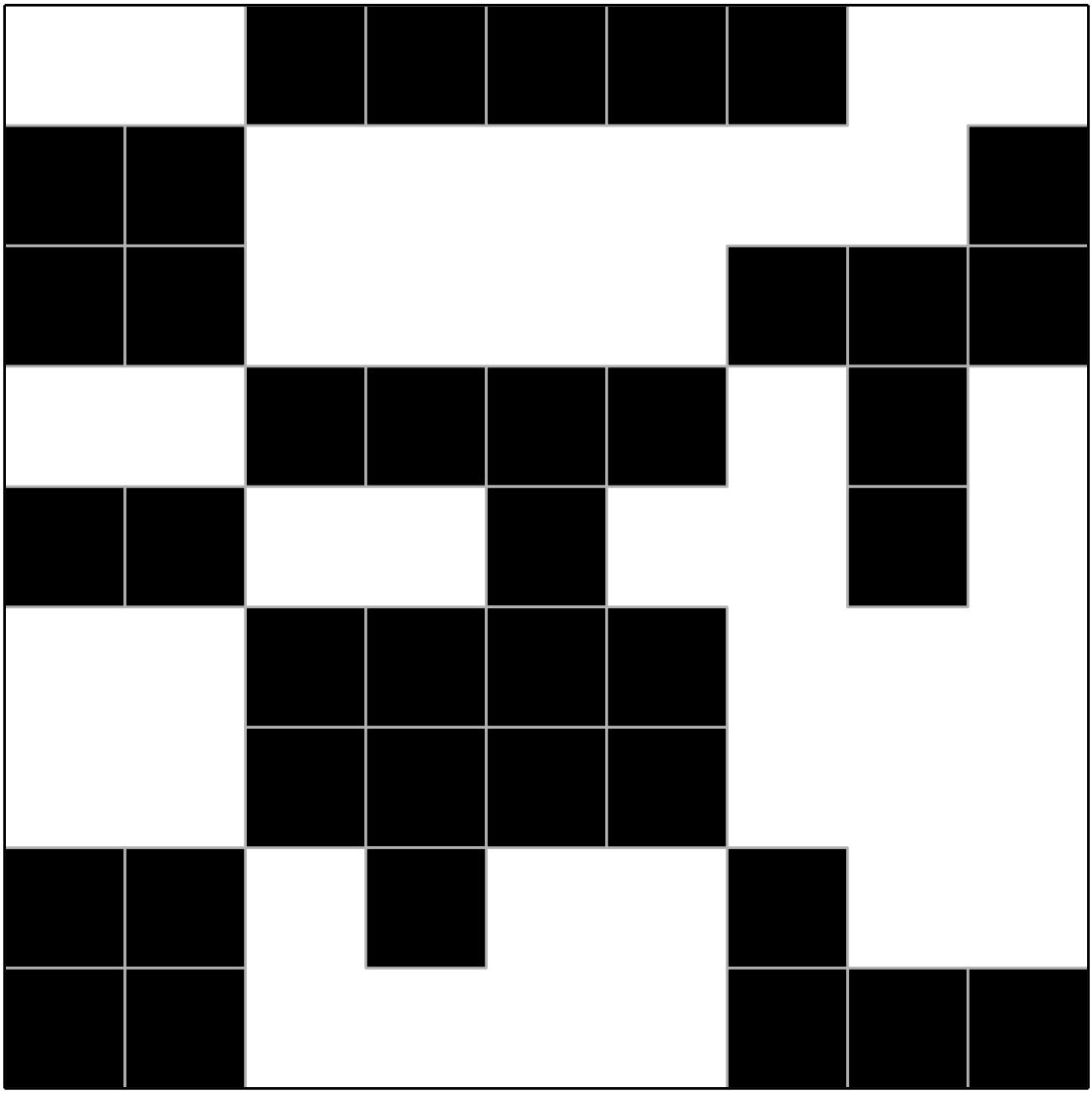


lib1_ex8_5_4-00 9x9 (39) con: 4, var: 5




lib1_ex8_5_4-00, cost: 4, diff: 4, explored: 4, time: 0.00s

lib1_ex8_5_4-01 9x9 (39) con: 4, var: 5



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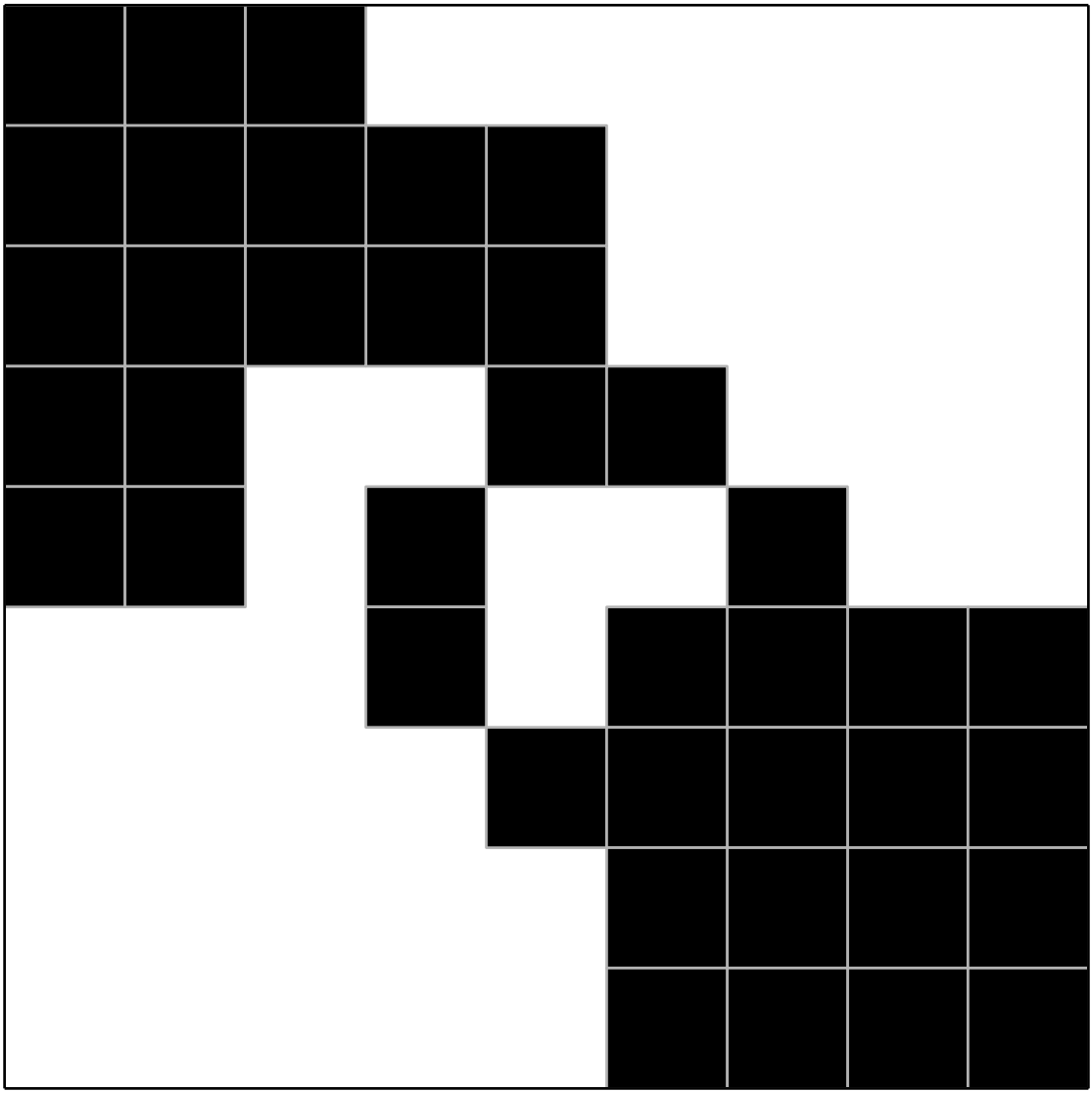
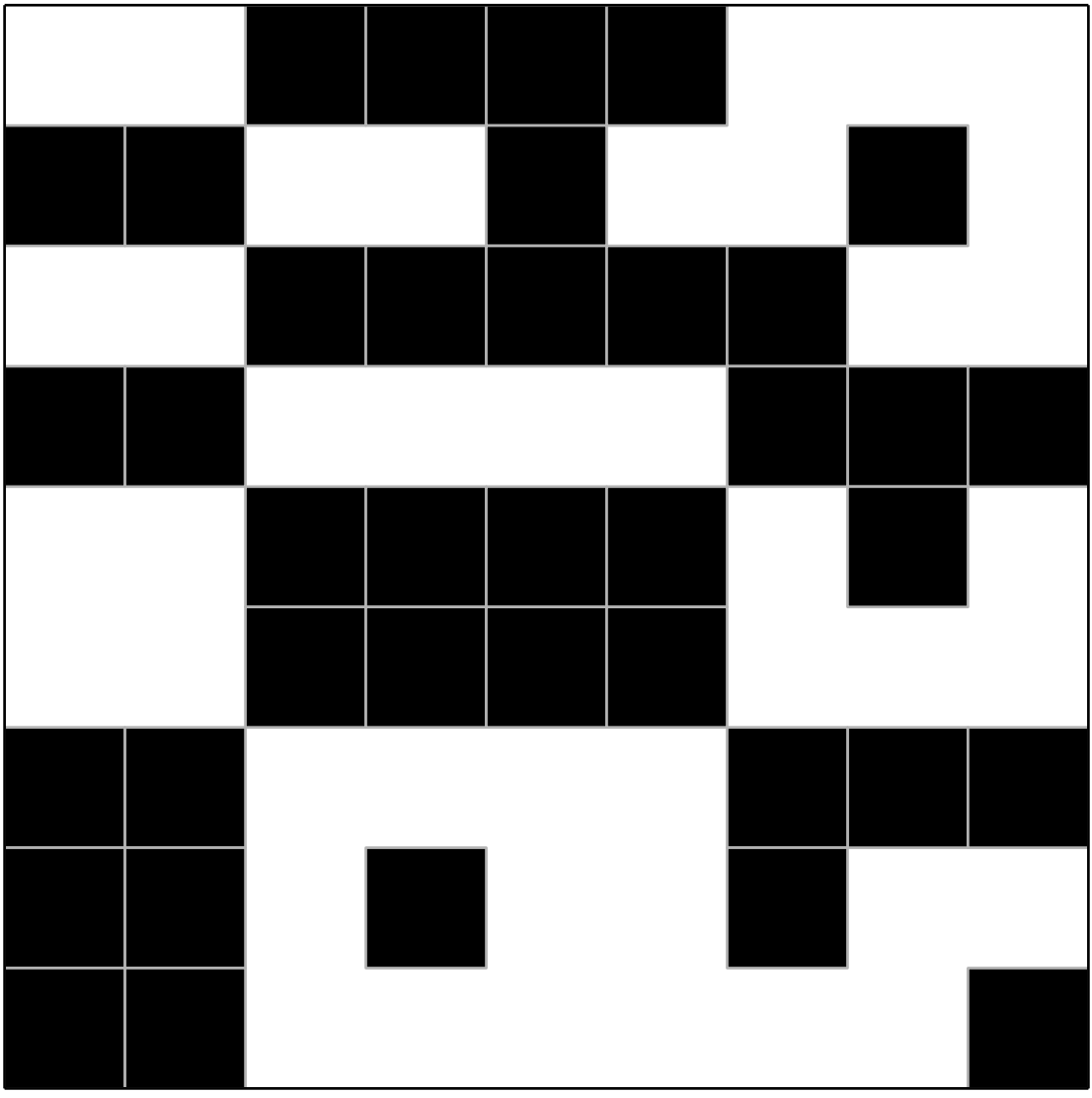


lib1_ex8_5_4-02 9x9 (39) con: 4, var: 5



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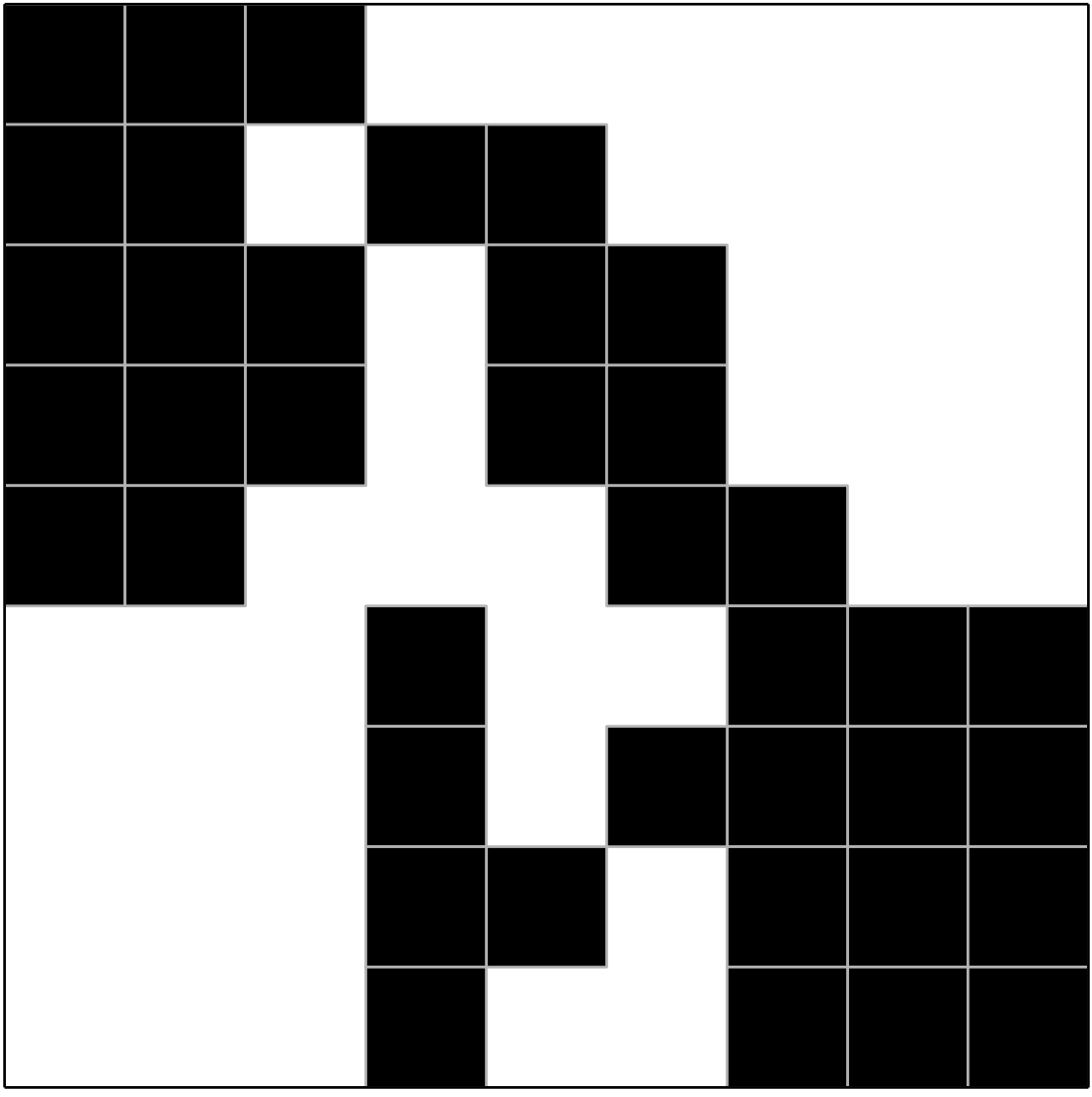
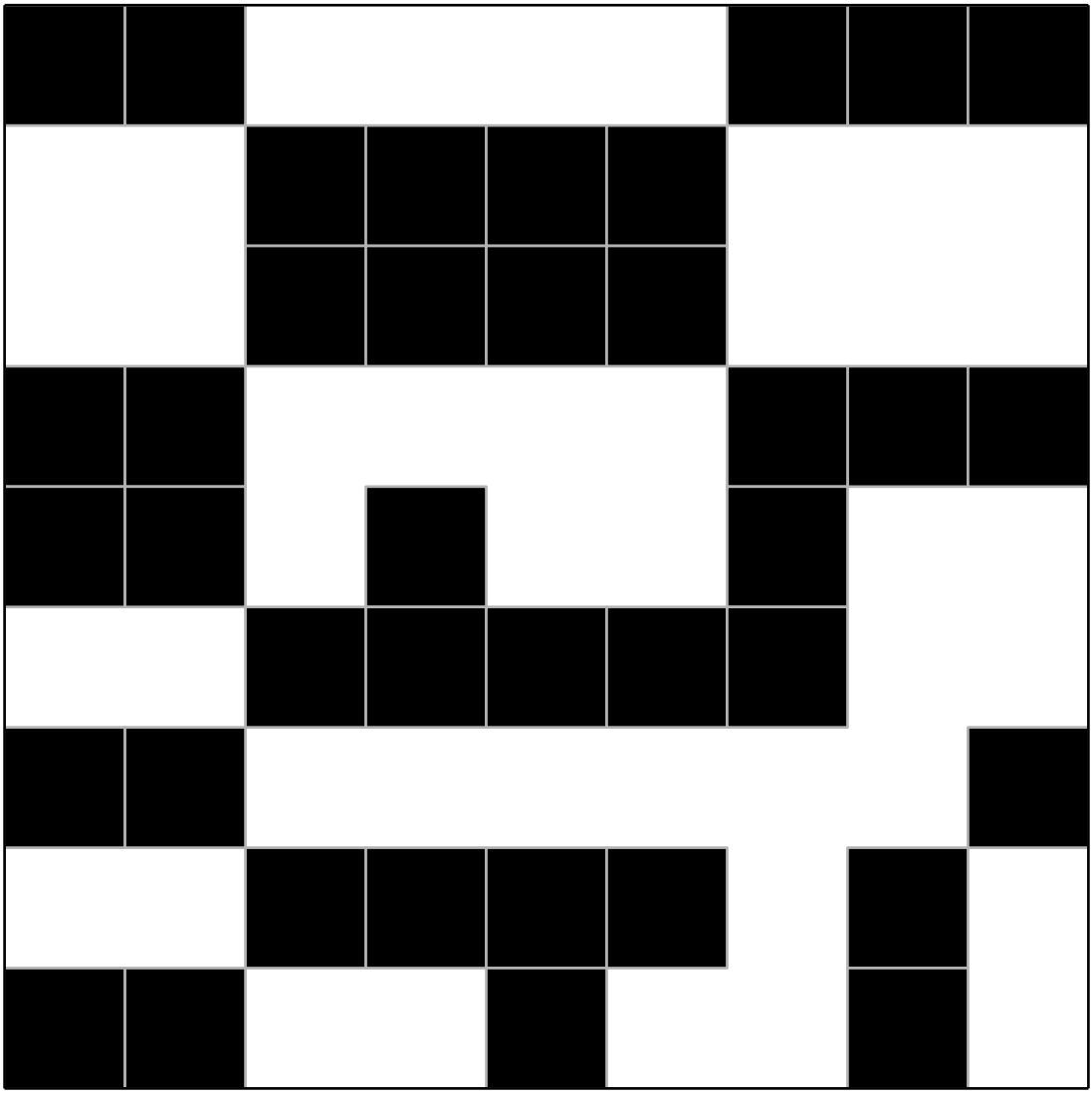
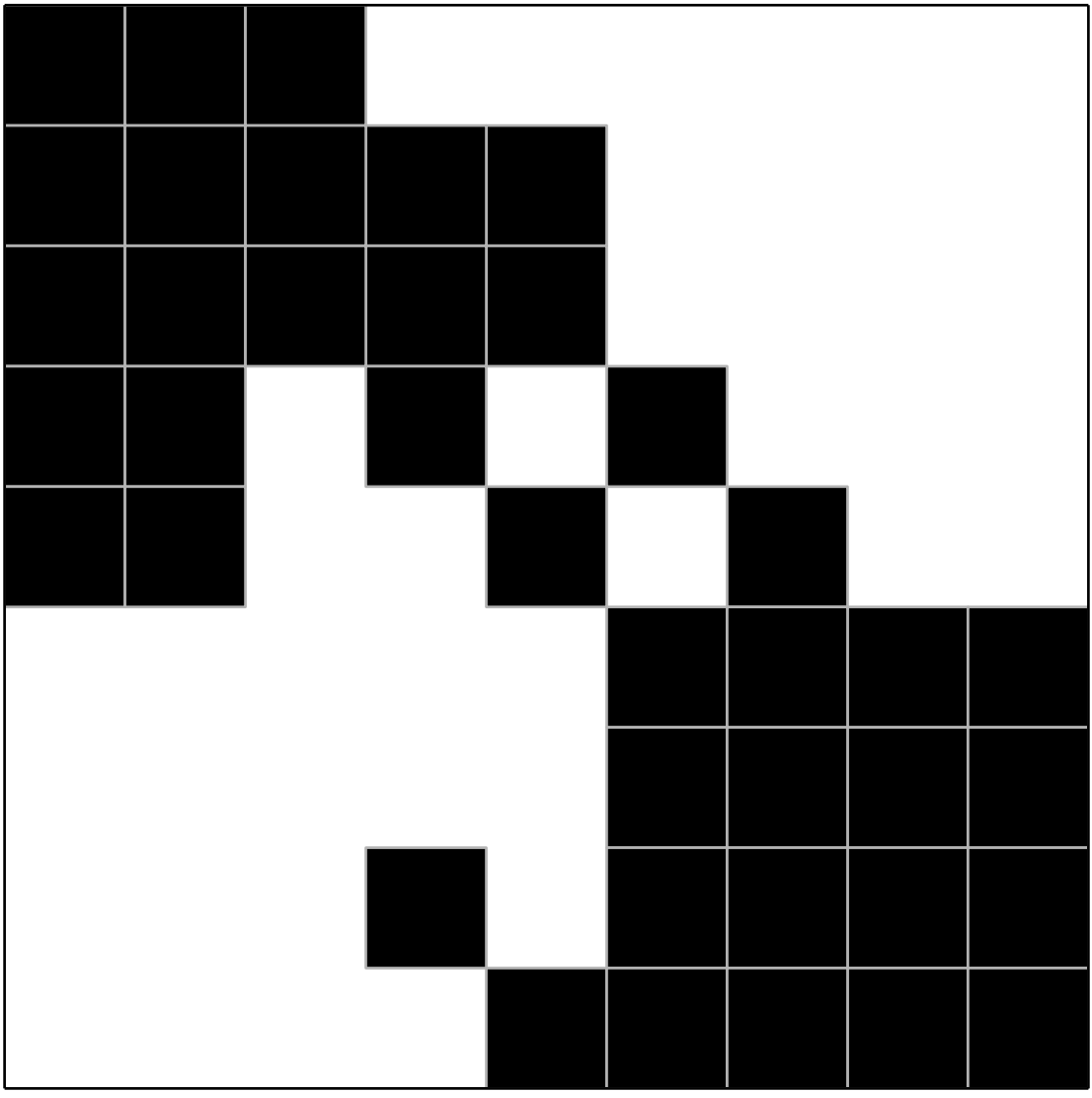


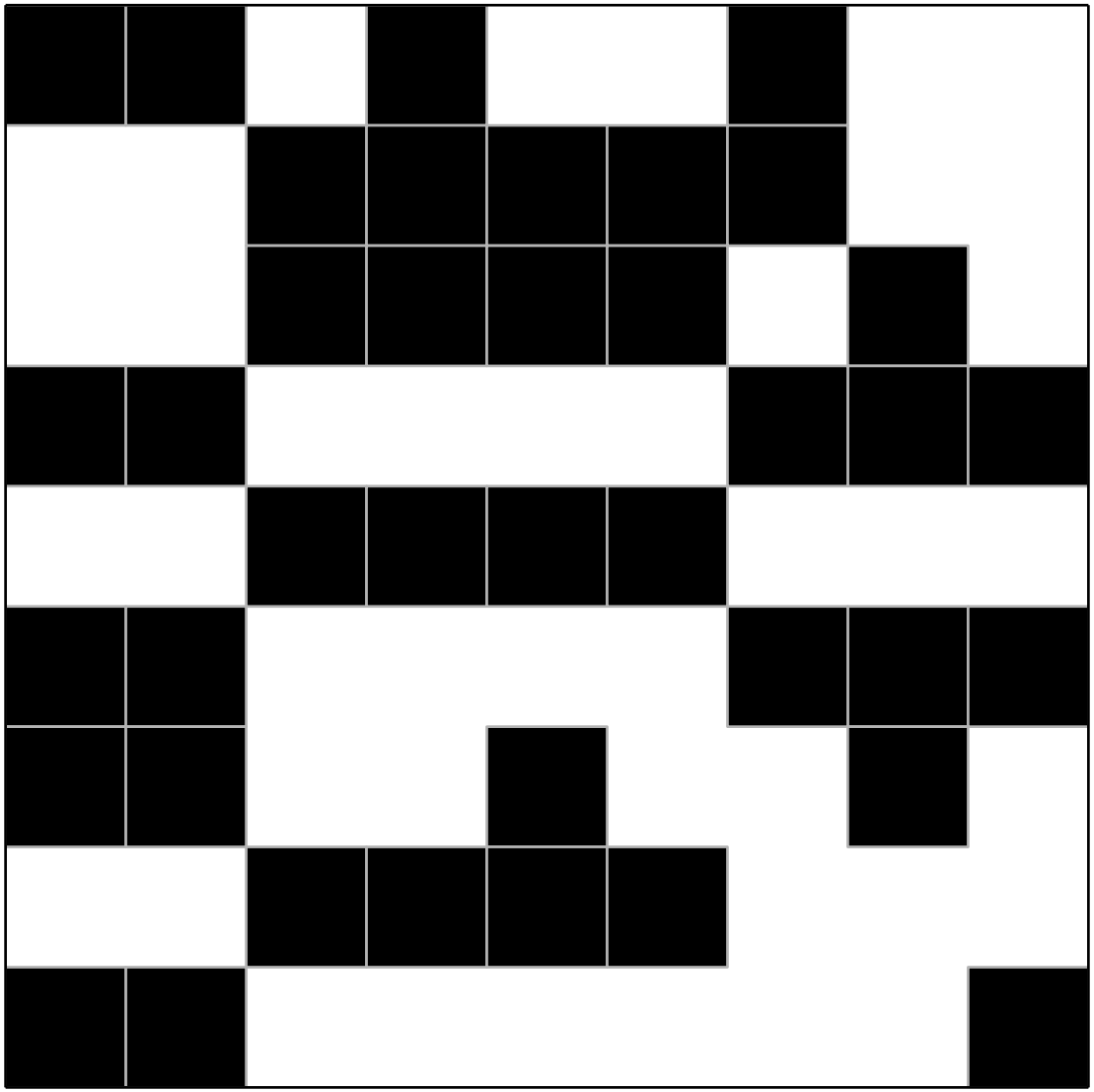
lib1_ex8_5_4-03 9x9 (39) con: 4, var: 5



lib1_ex8_5_4-03, cost: 4, diff: 4, explored: 4, time: 0.00s



lib1_ex8_5_4-04 9x9 (39) con: 4, var: 5



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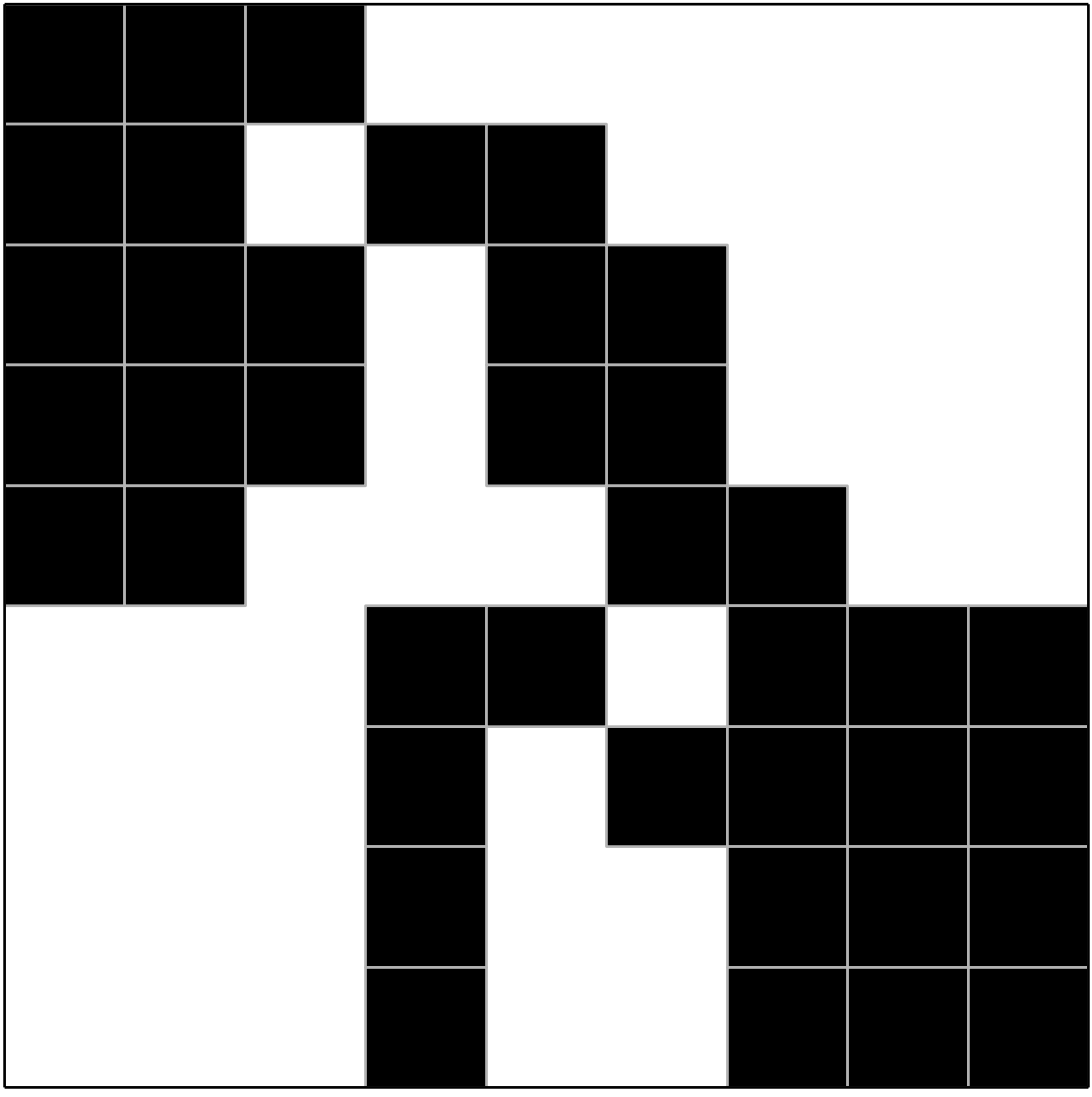
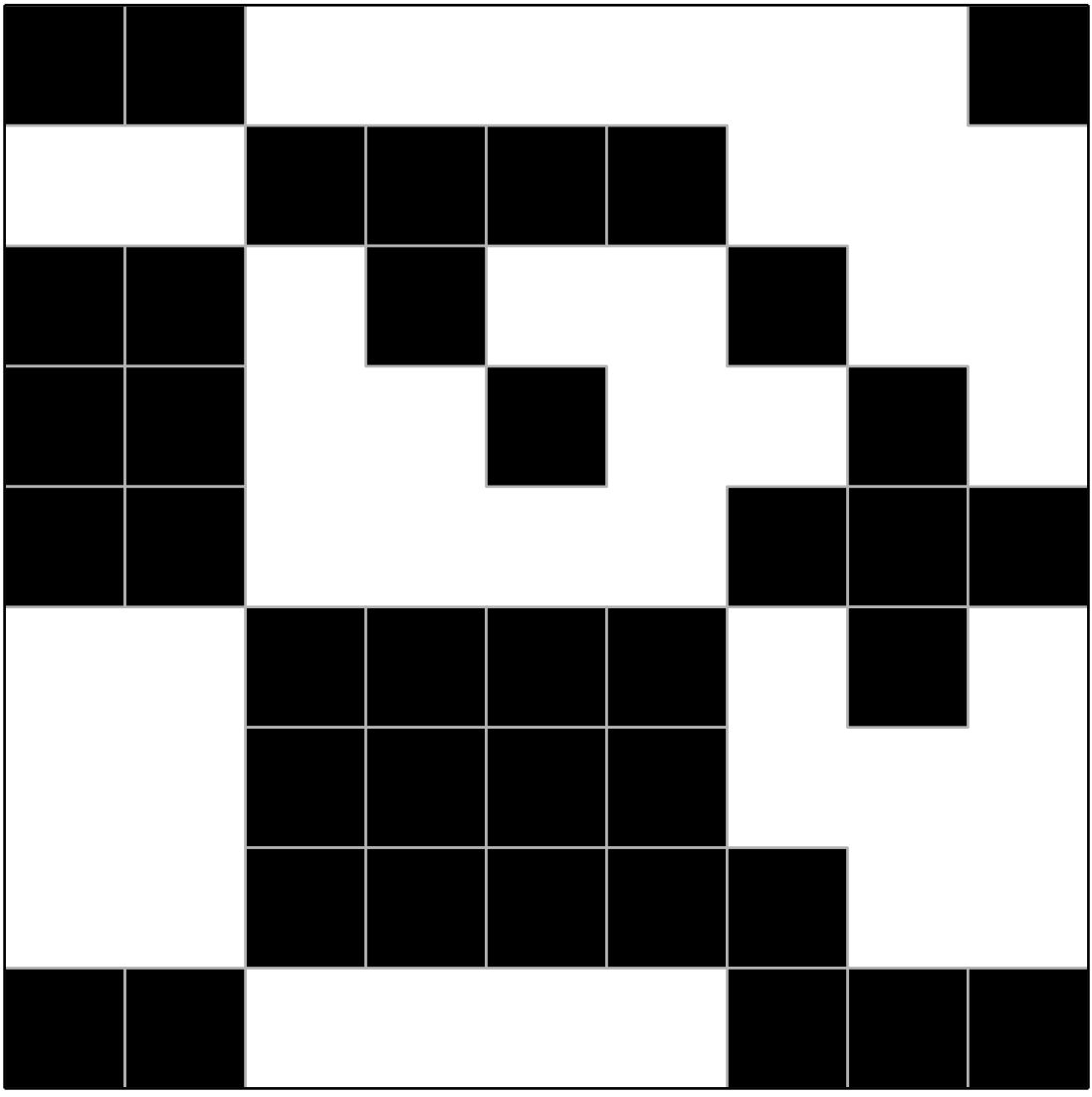


lib1_ex8_5_4-05 9x9 (39) con: 4, var: 5



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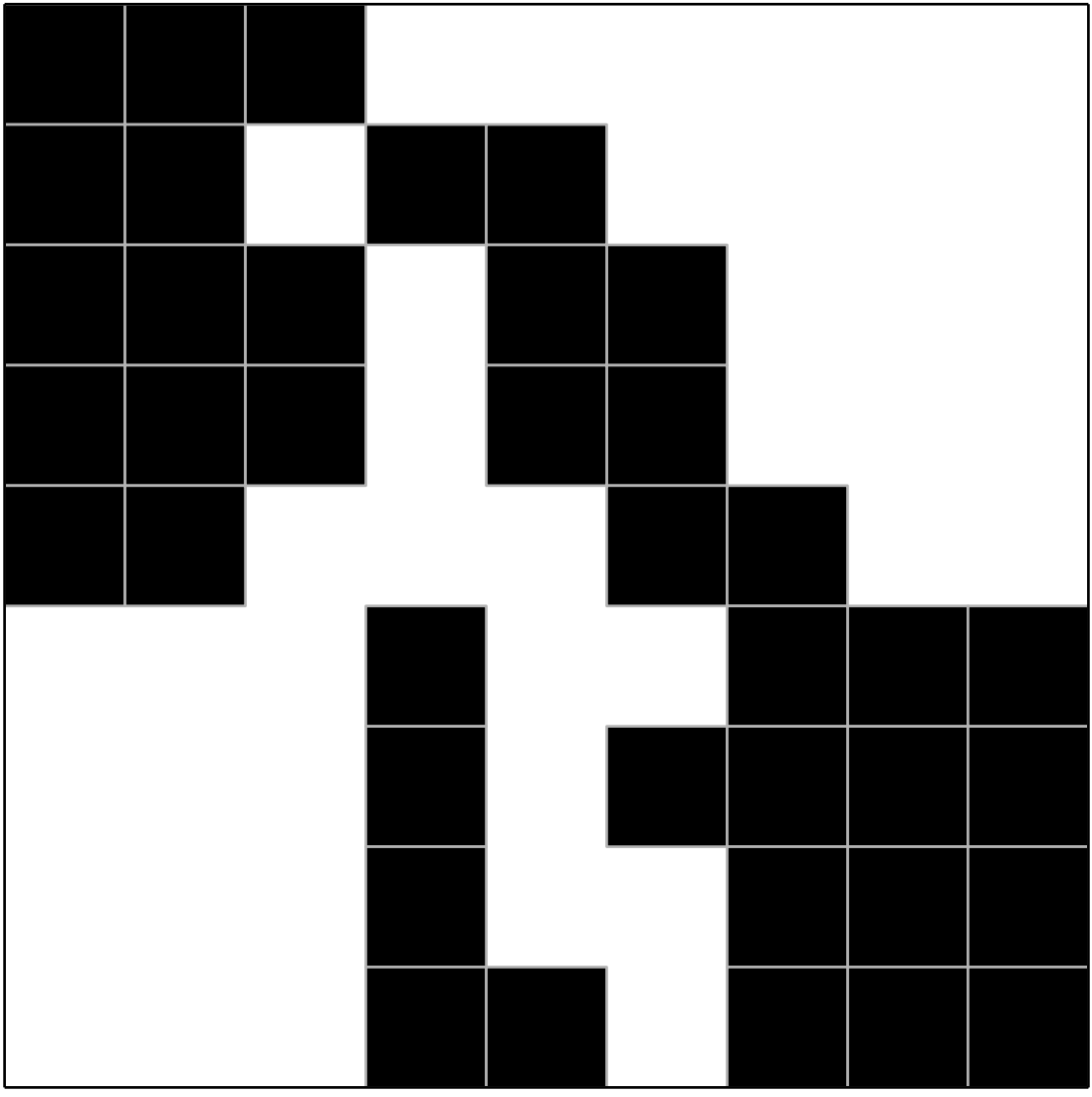
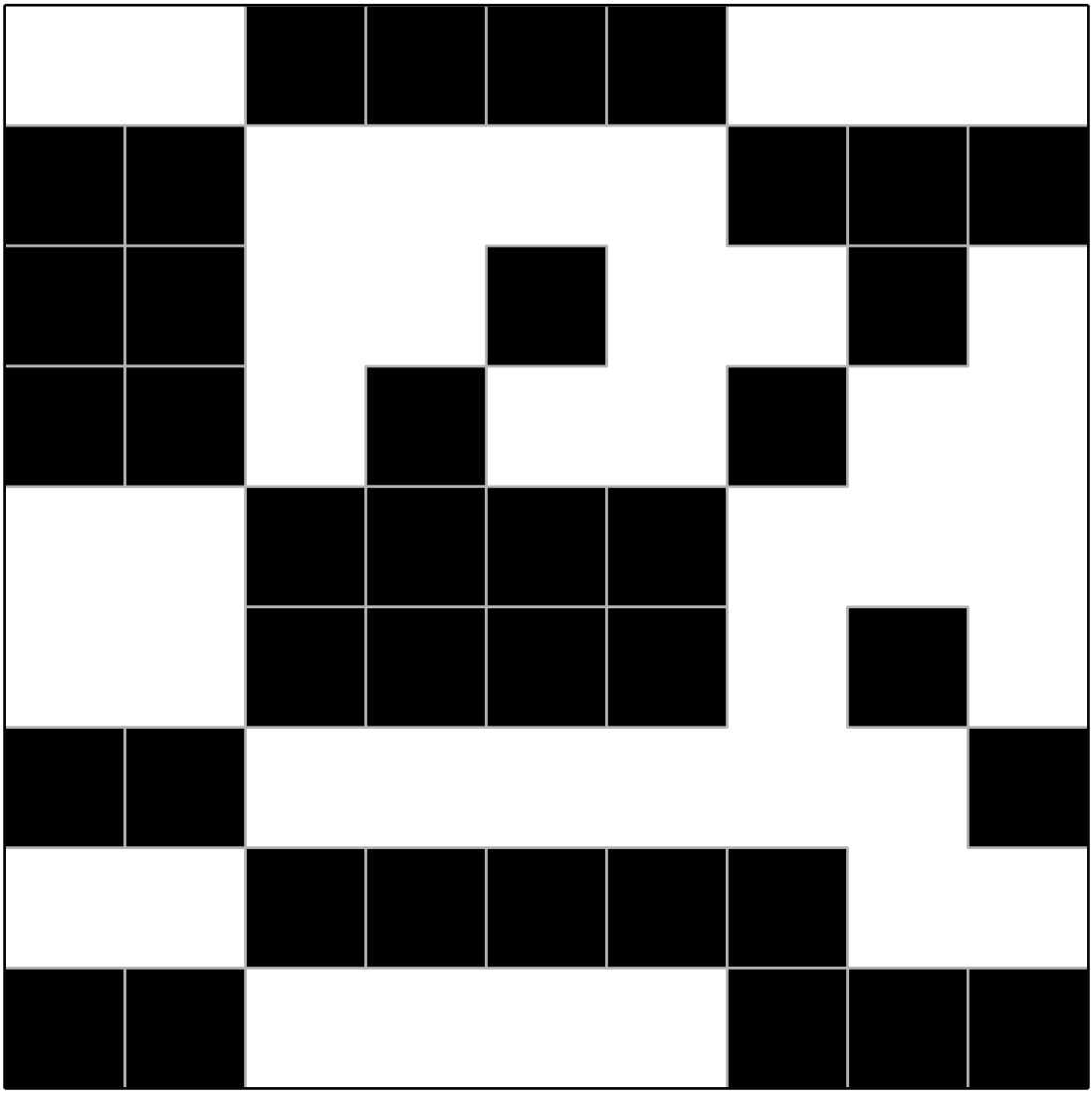


lib1_ex8_5_4-06 9x9 (39) con: 4, var: 5



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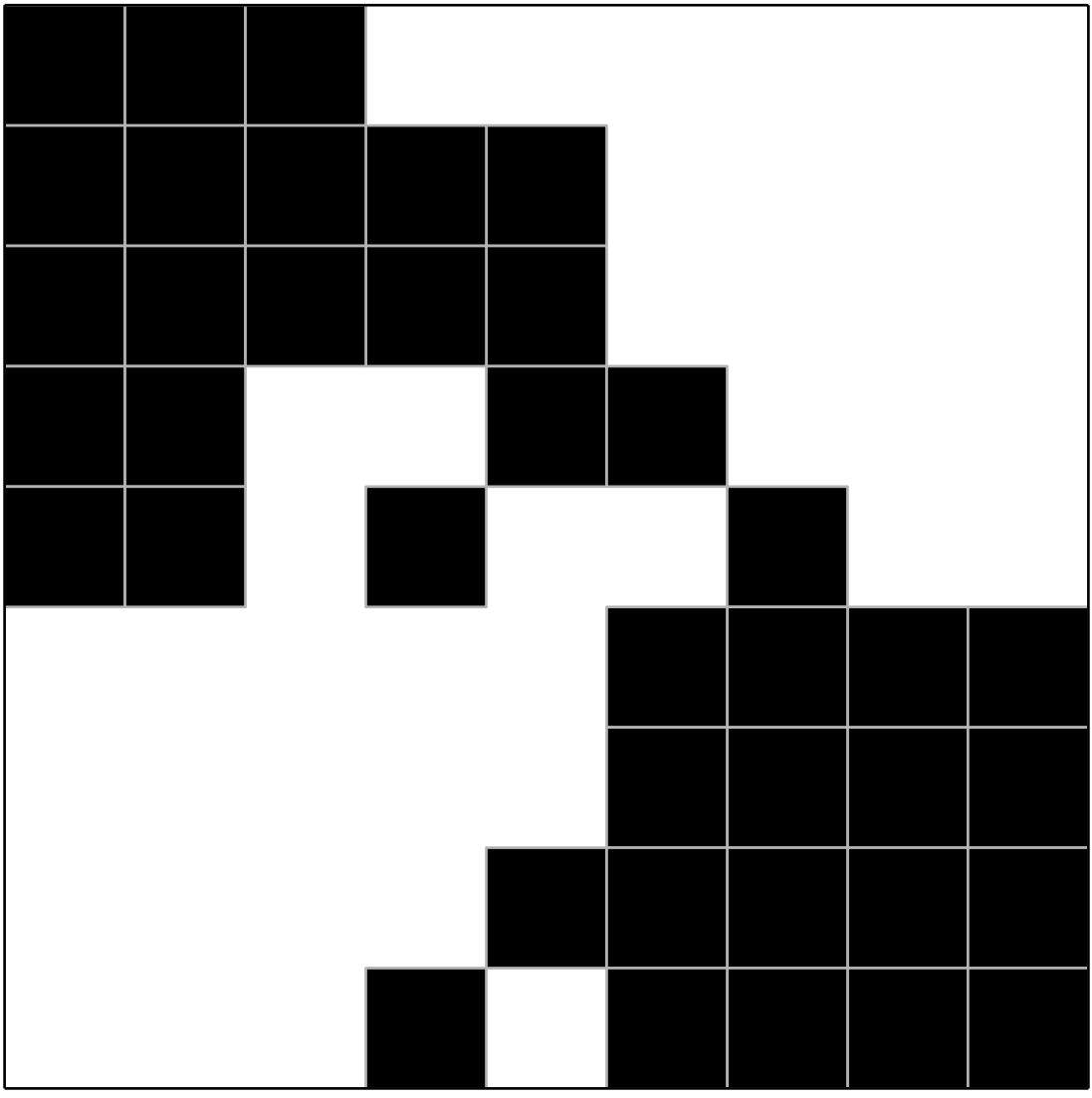
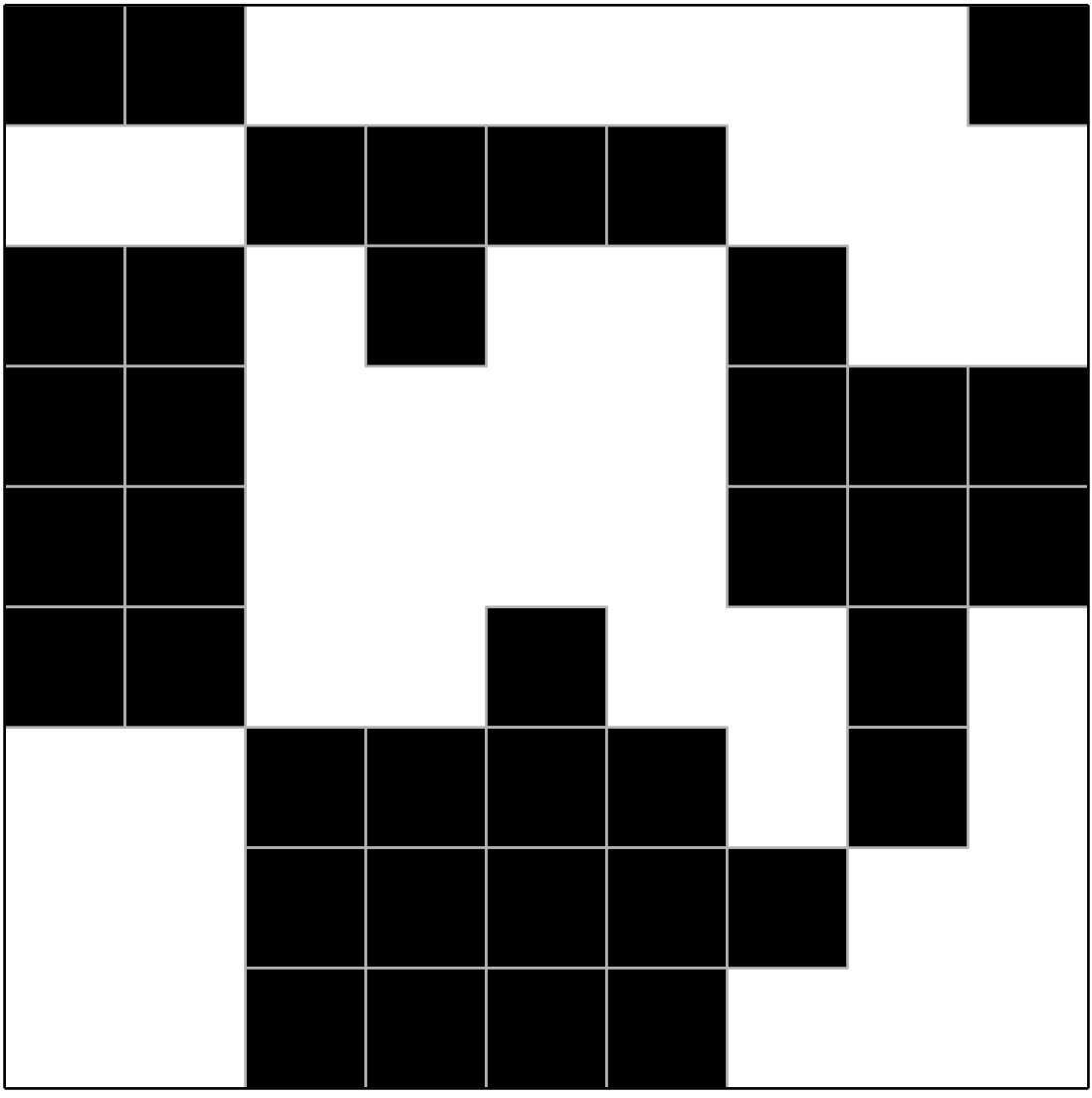


lib1_ex8_5_4-07 9x9 (39) con: 4, var: 5



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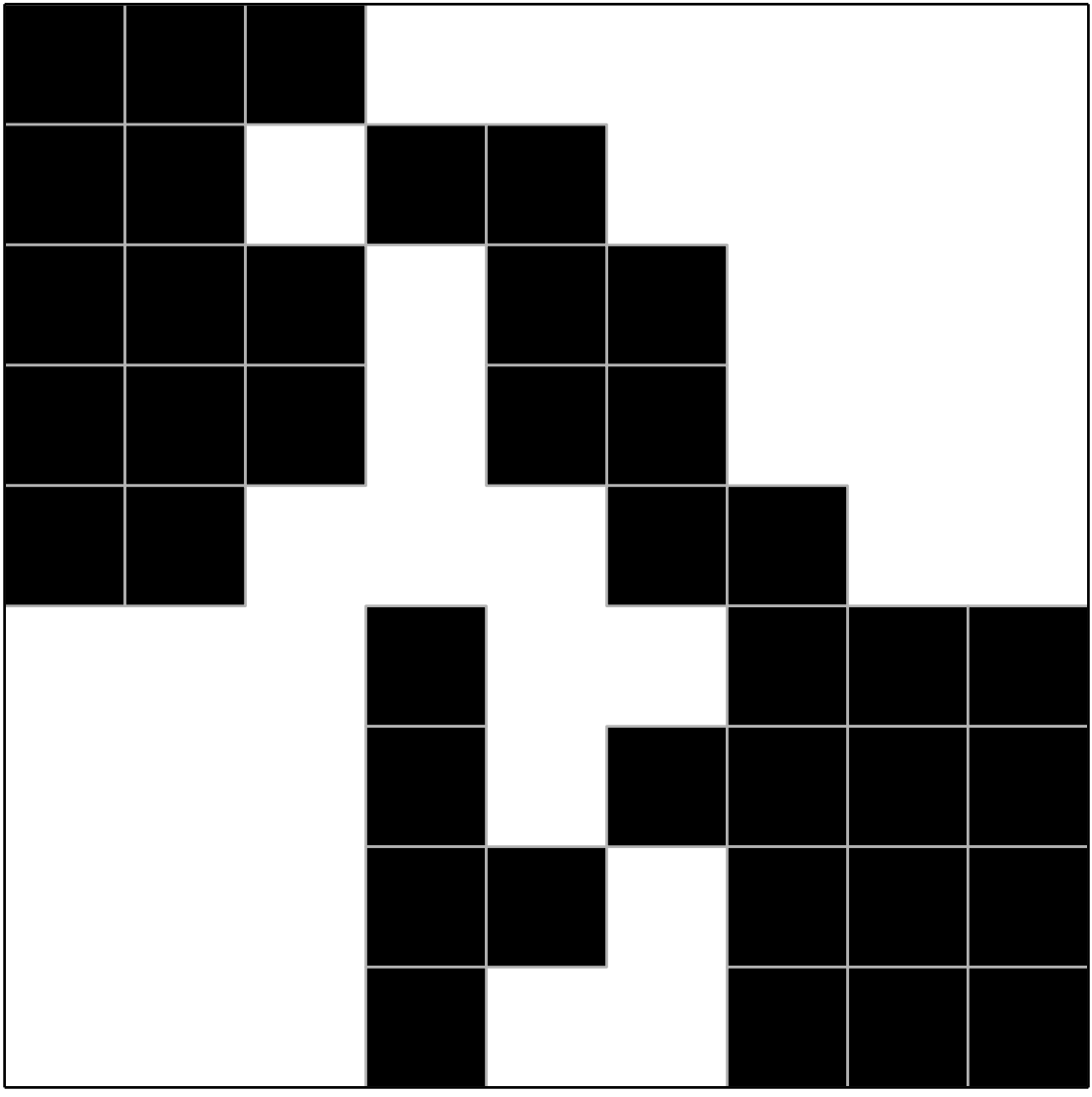
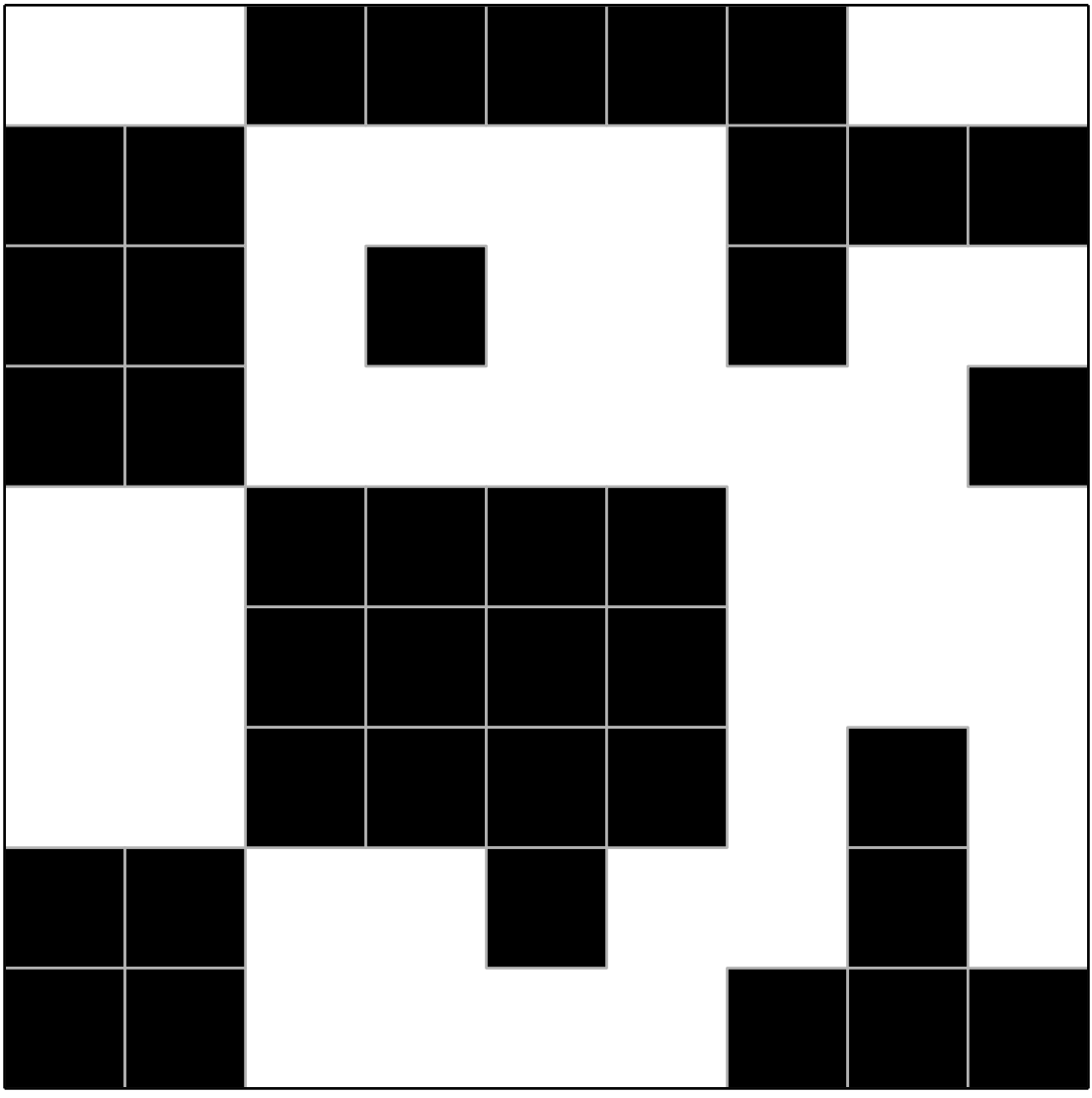


lib1_ex8_5_4-08 9x9 (39) con: 4, var: 5



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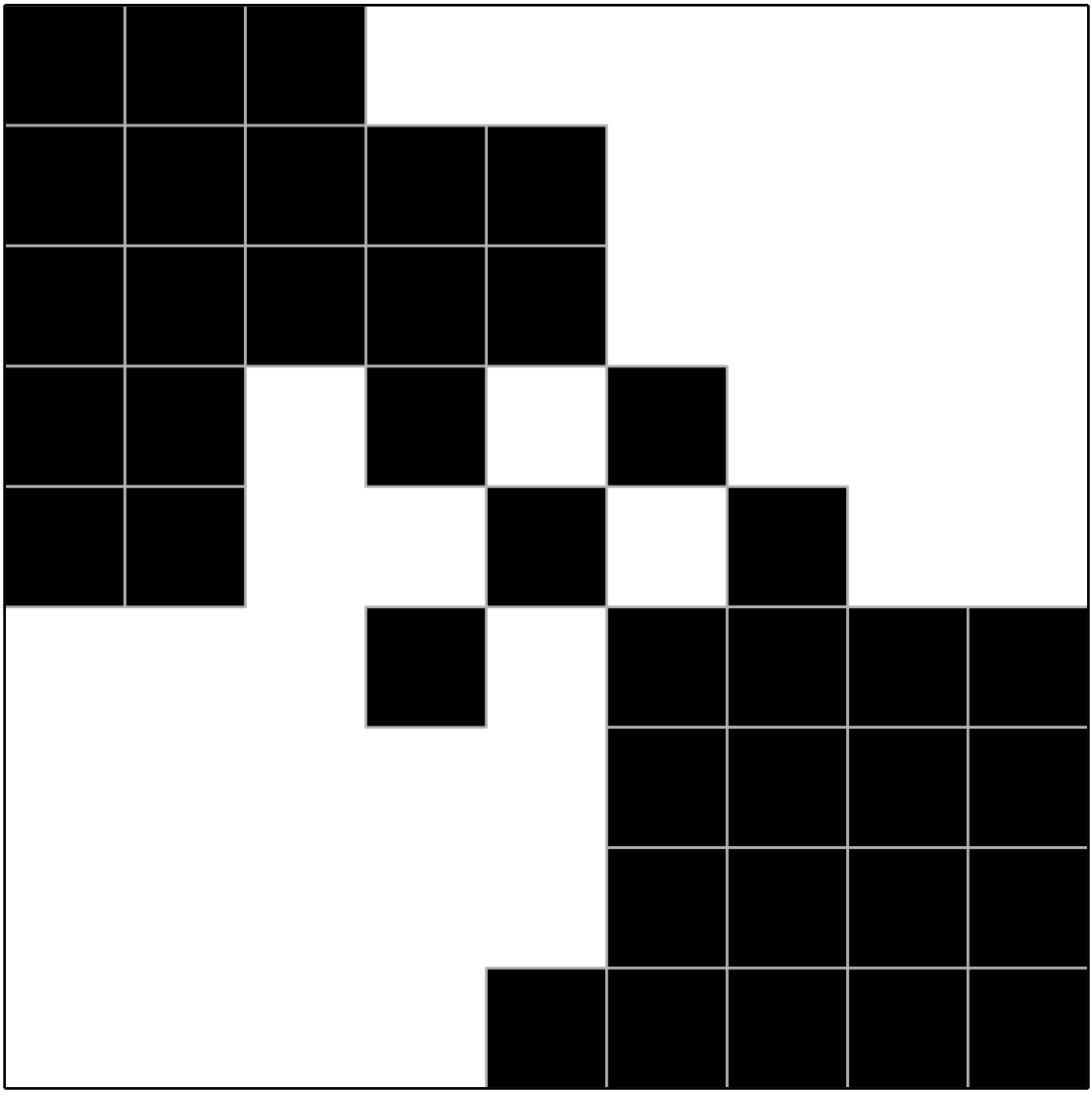

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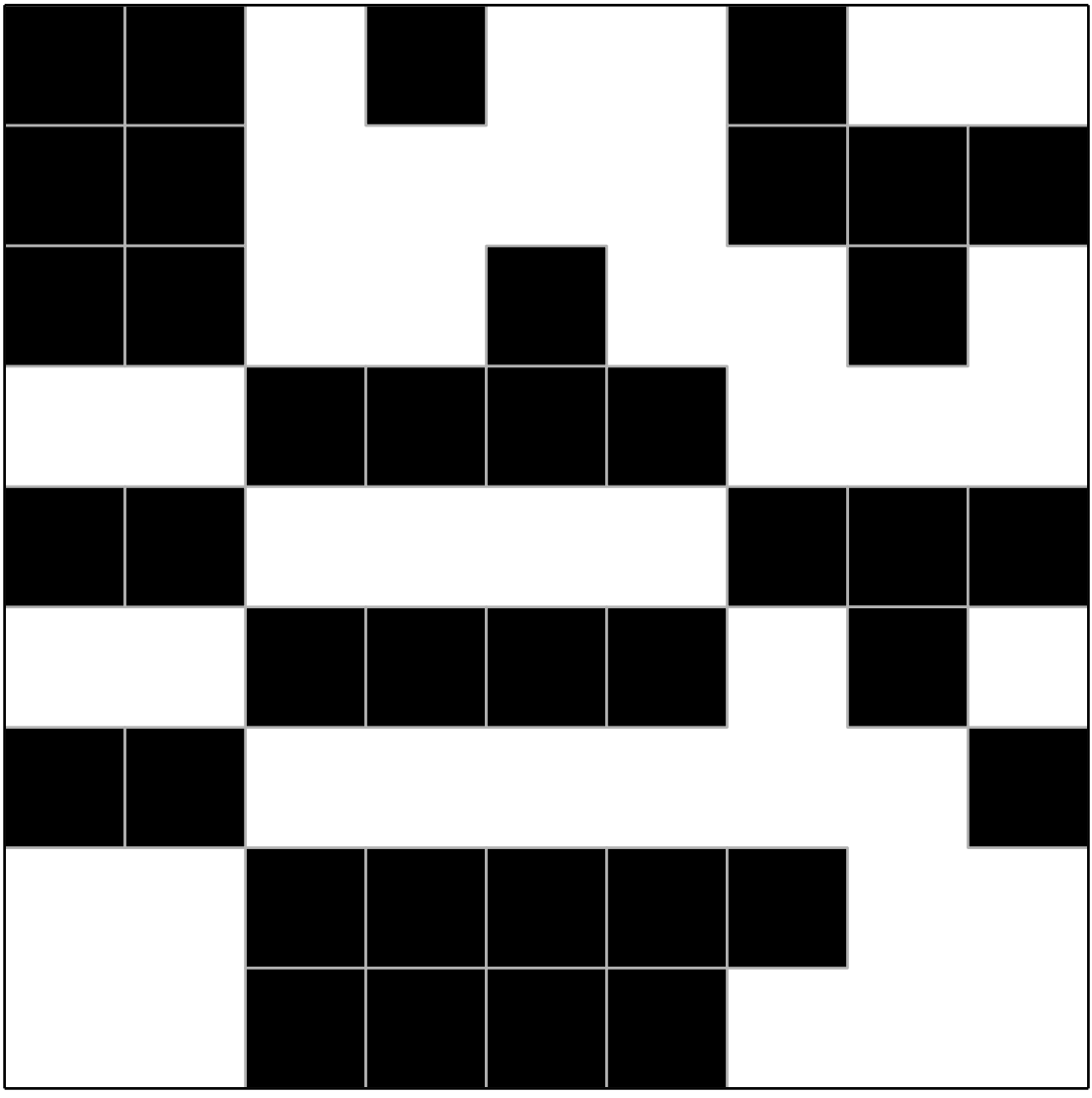

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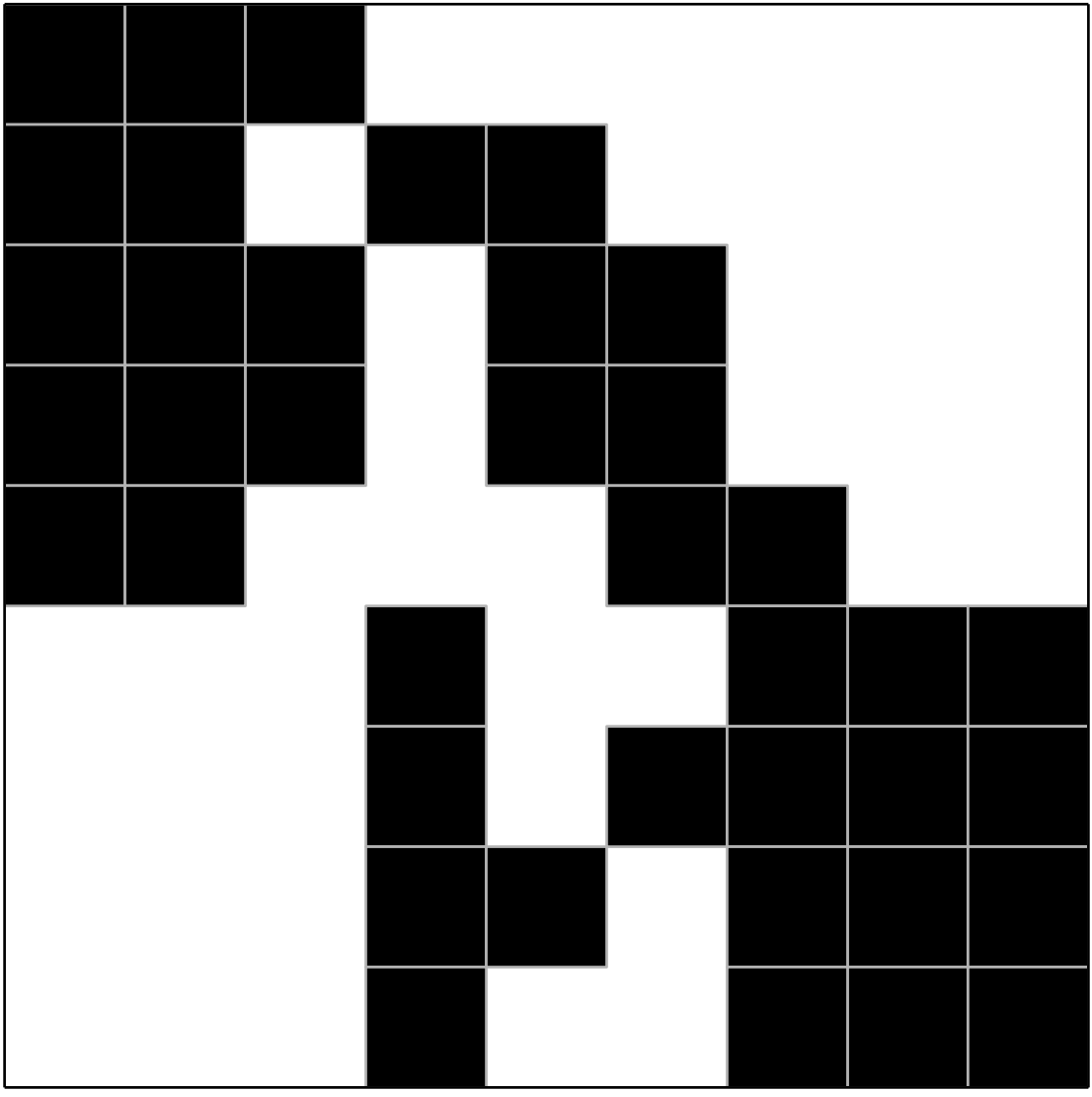
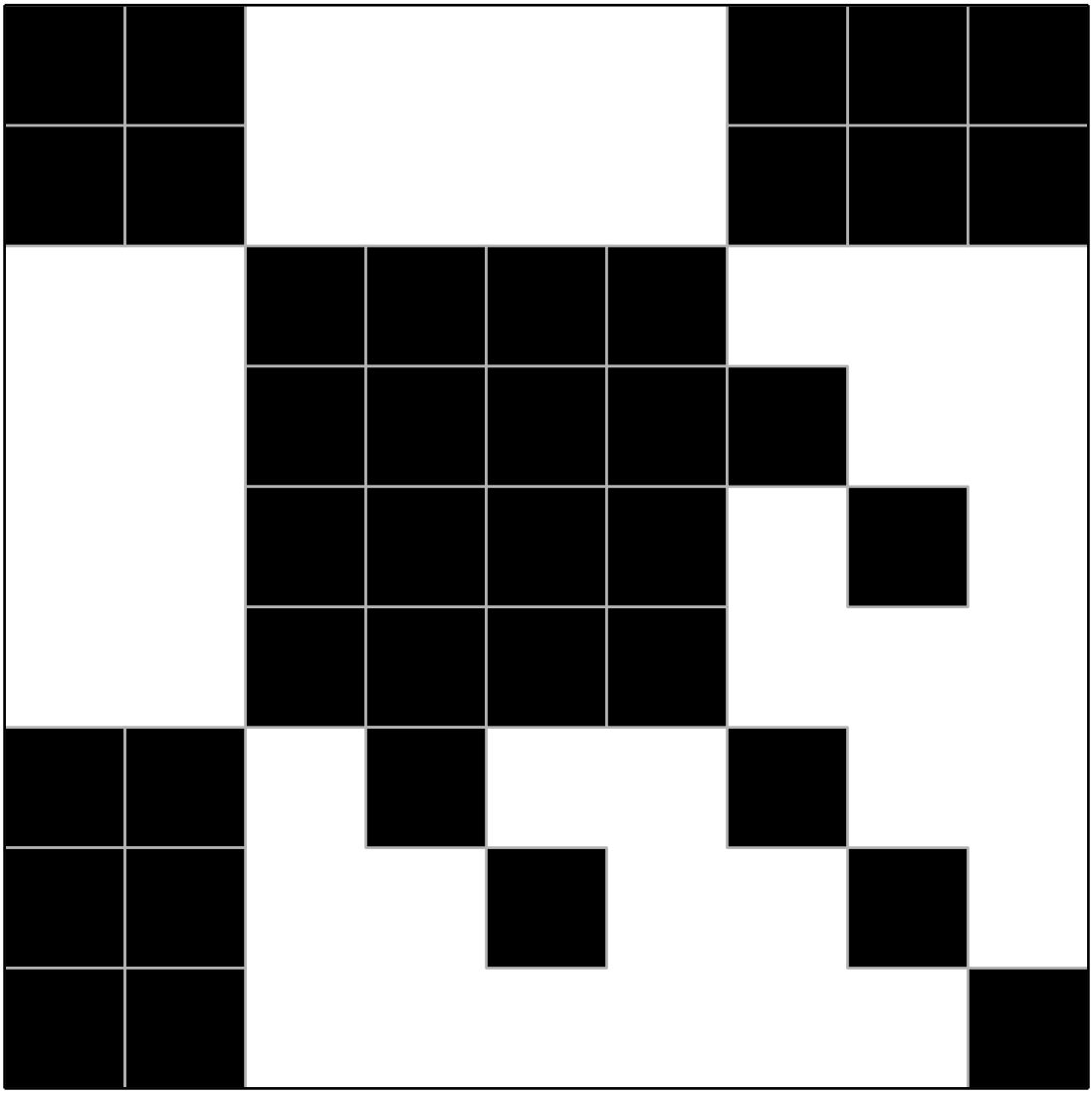
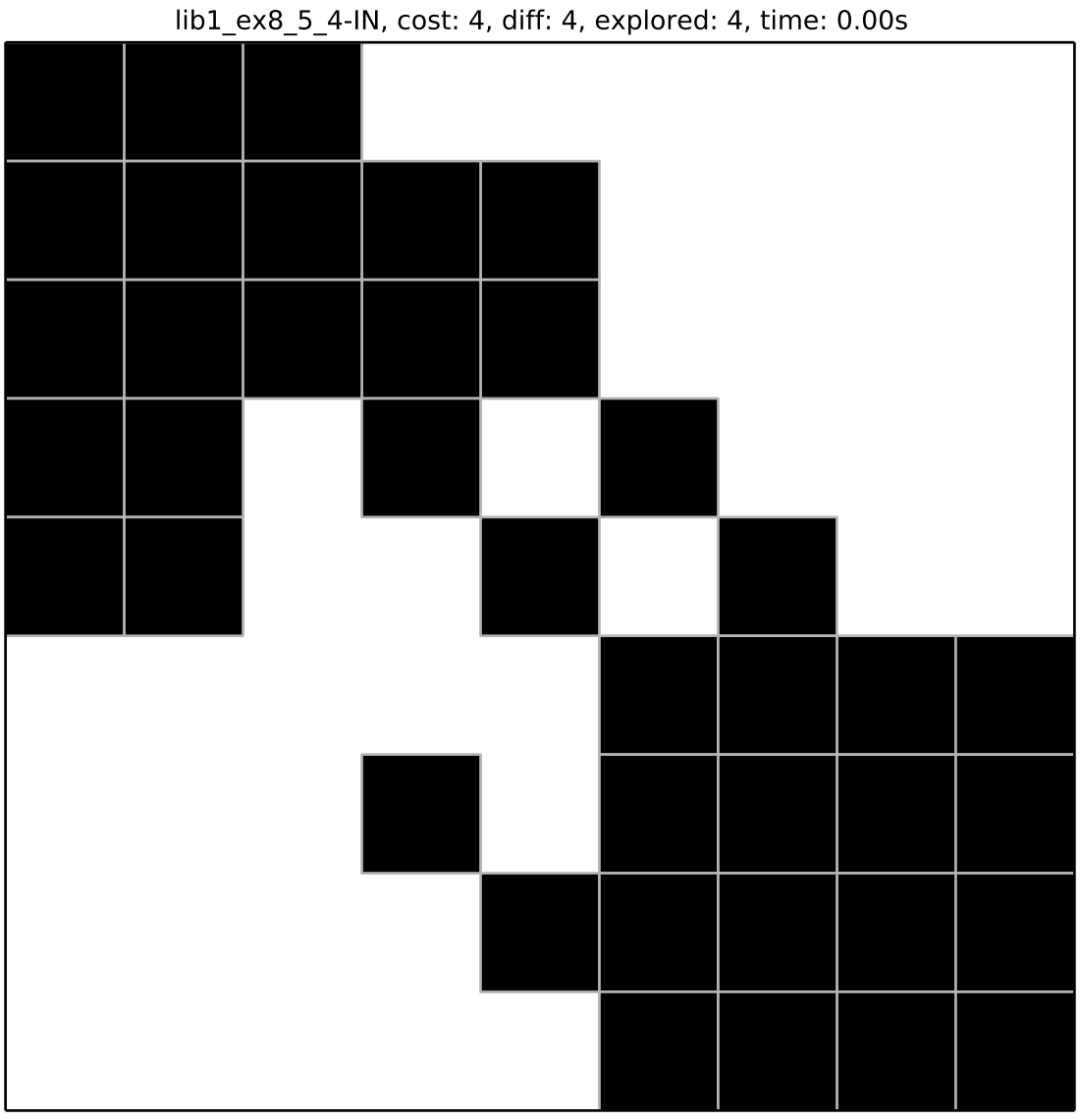


lib1_ex8_5_4-IN 9x9 (39) con: 4, var: 5

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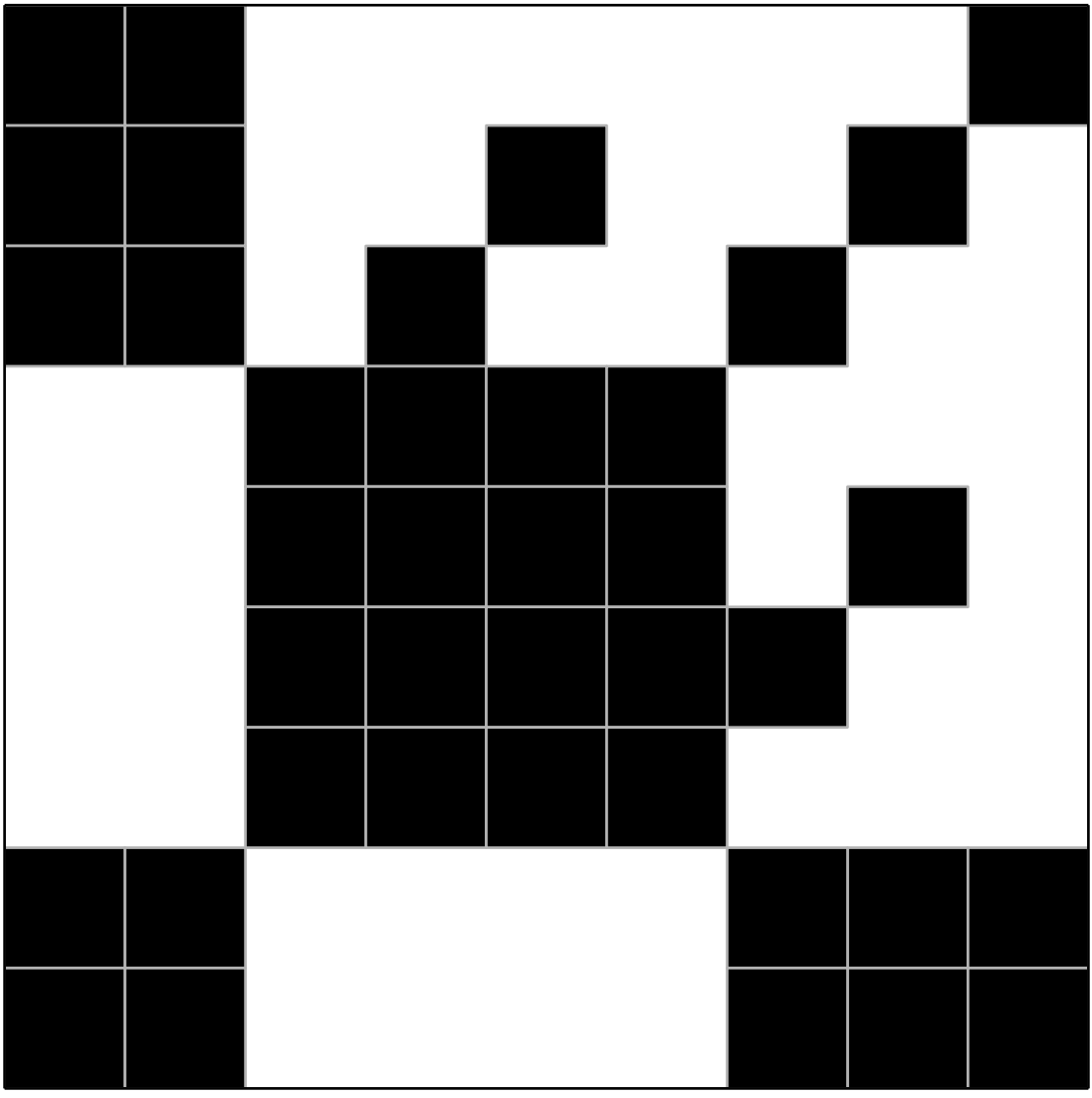
lib1_ex8_5_4-RE 9x9 (39) con: 4, var: 5



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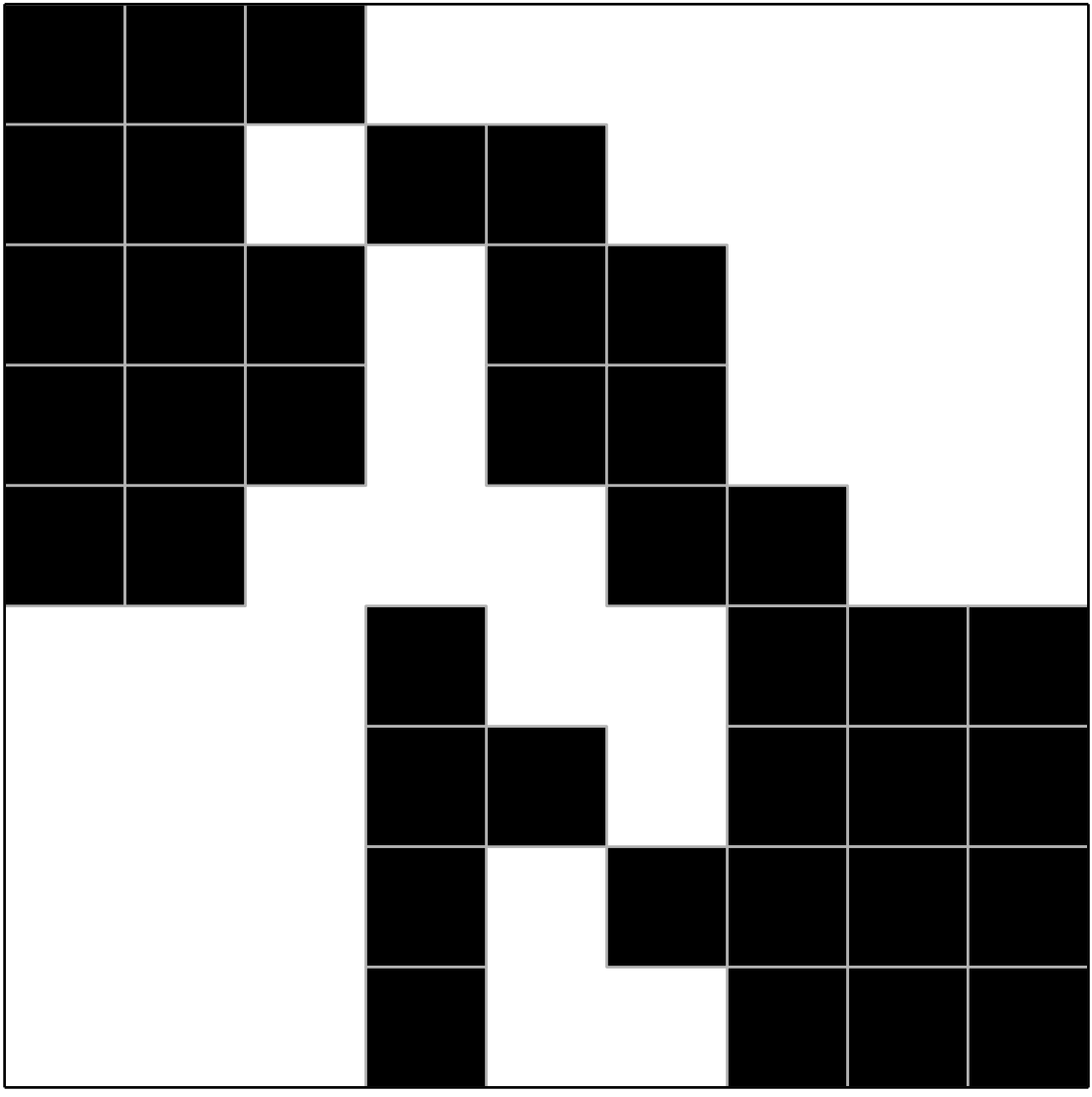
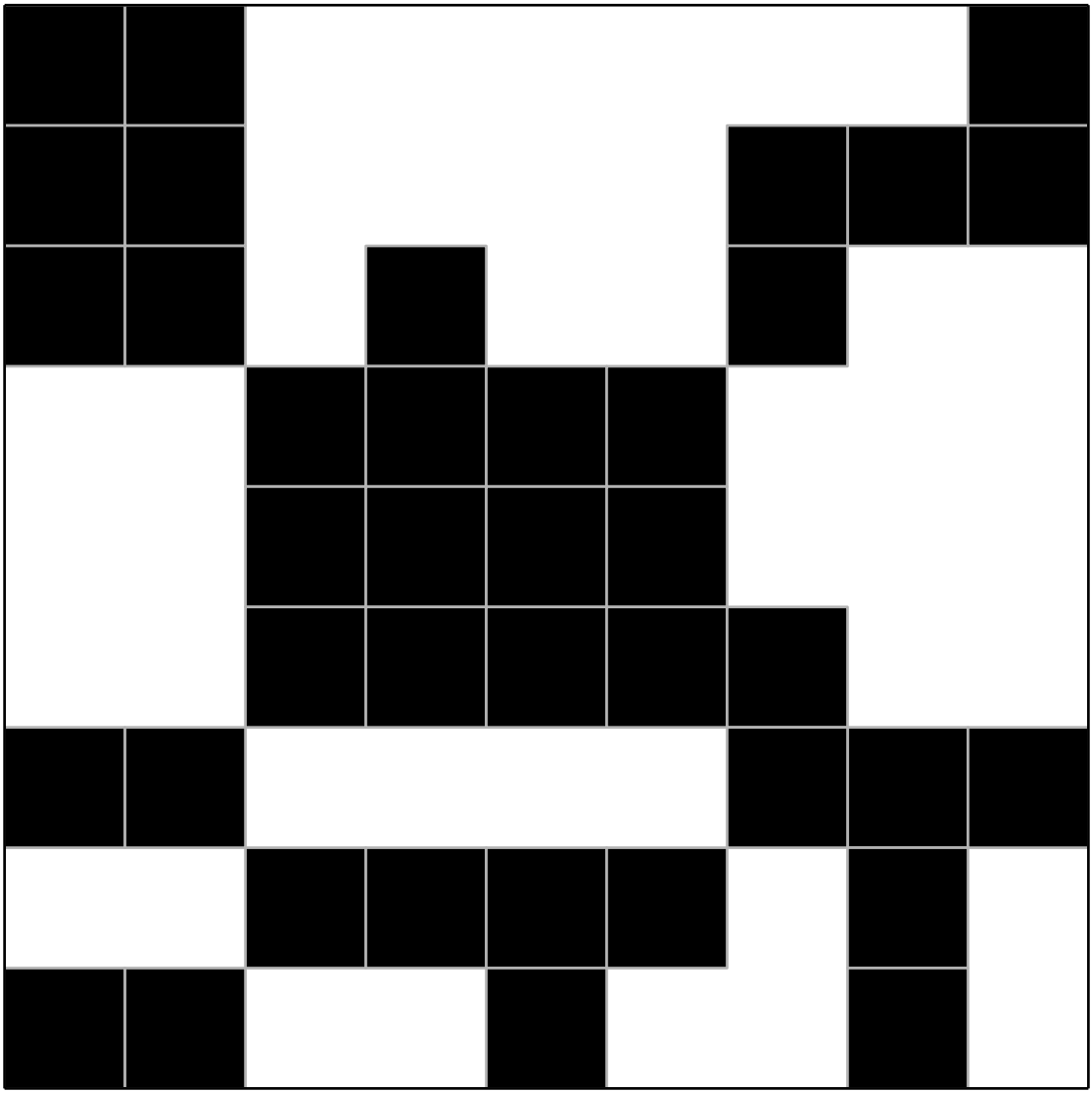


lib1_ex8_5_5-00 9x9 (39) con: 4, var: 5



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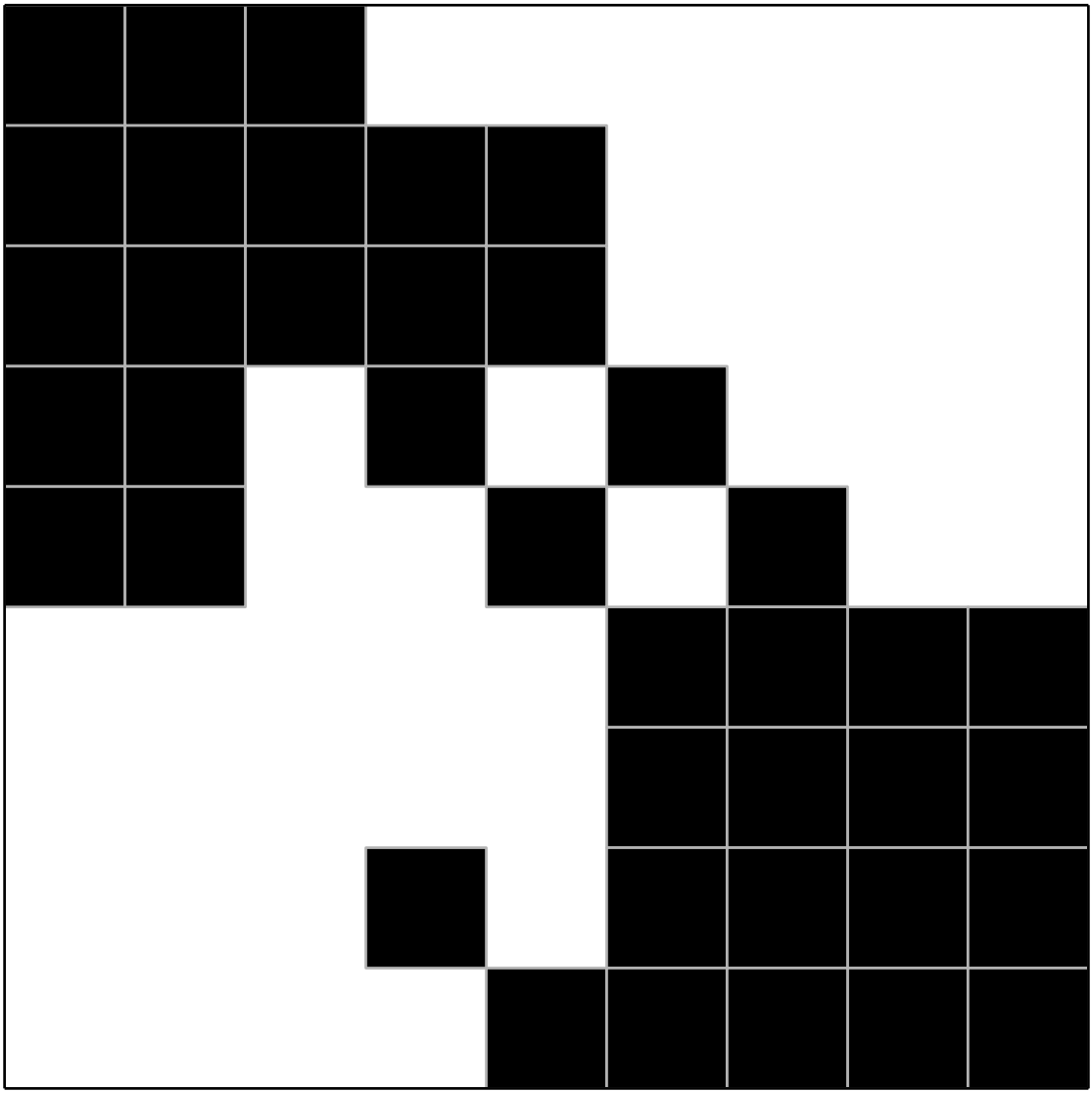
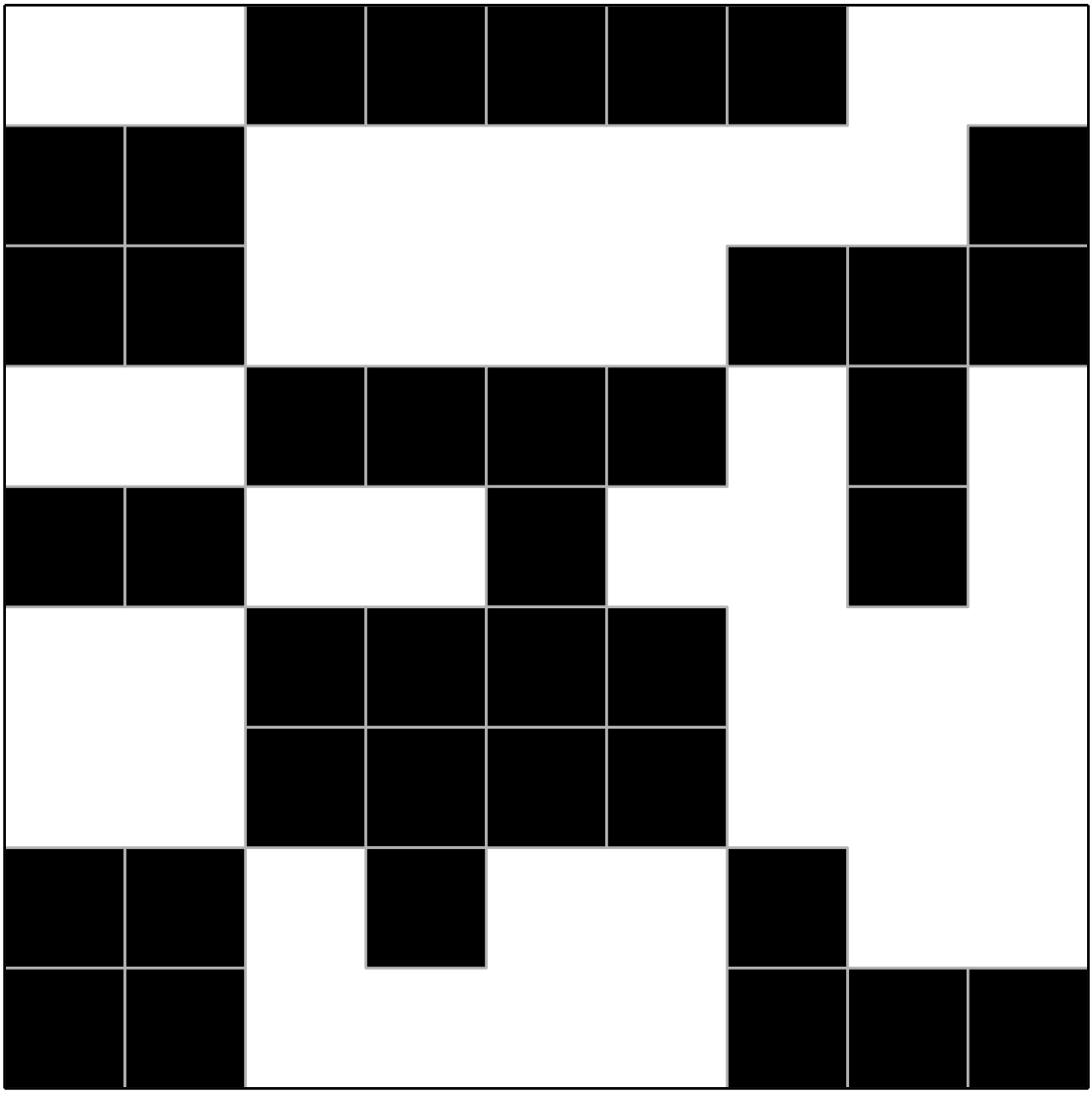


lib1_ex8_5_5-01 9x9 (39) con: 4, var: 5



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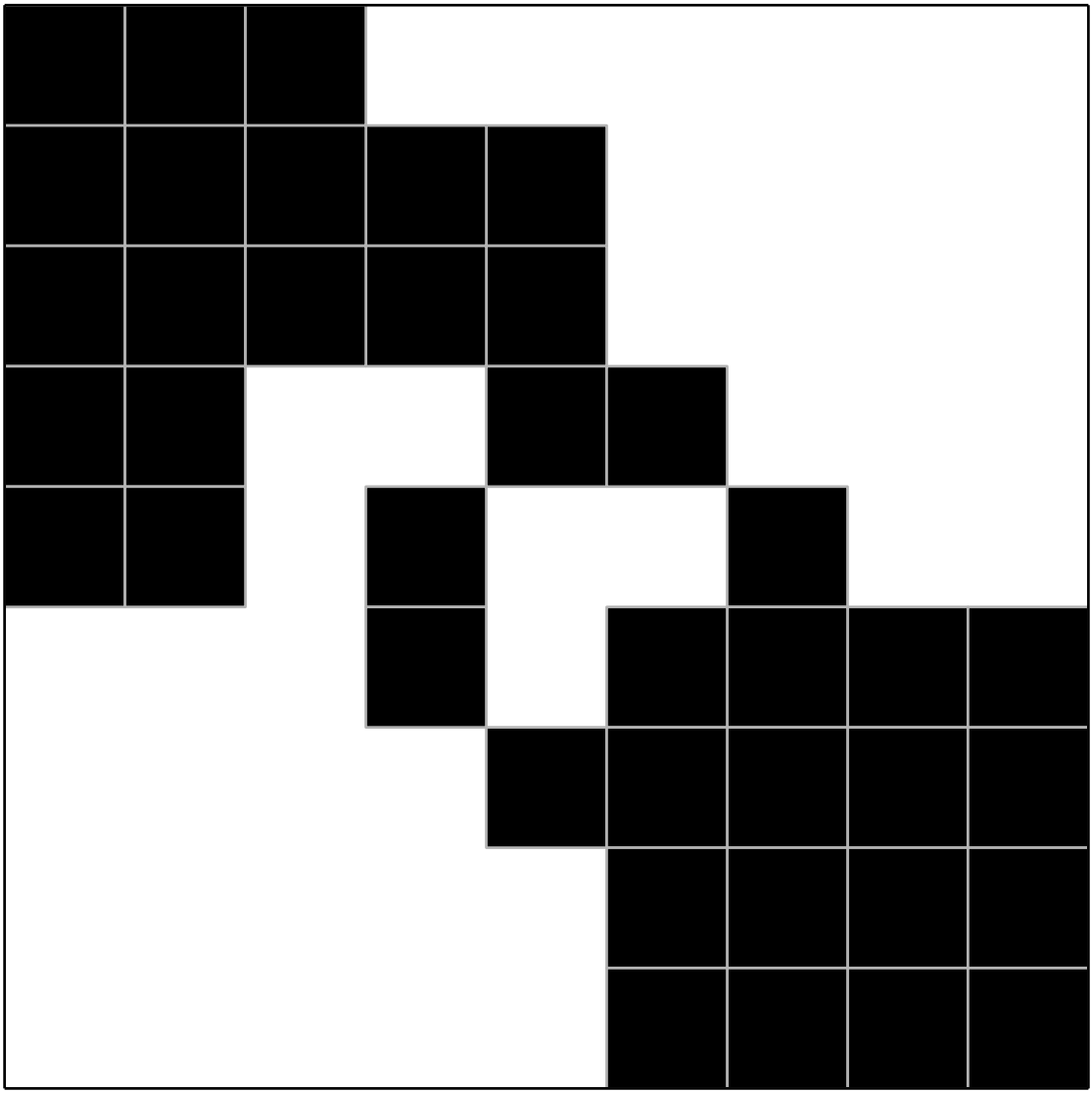

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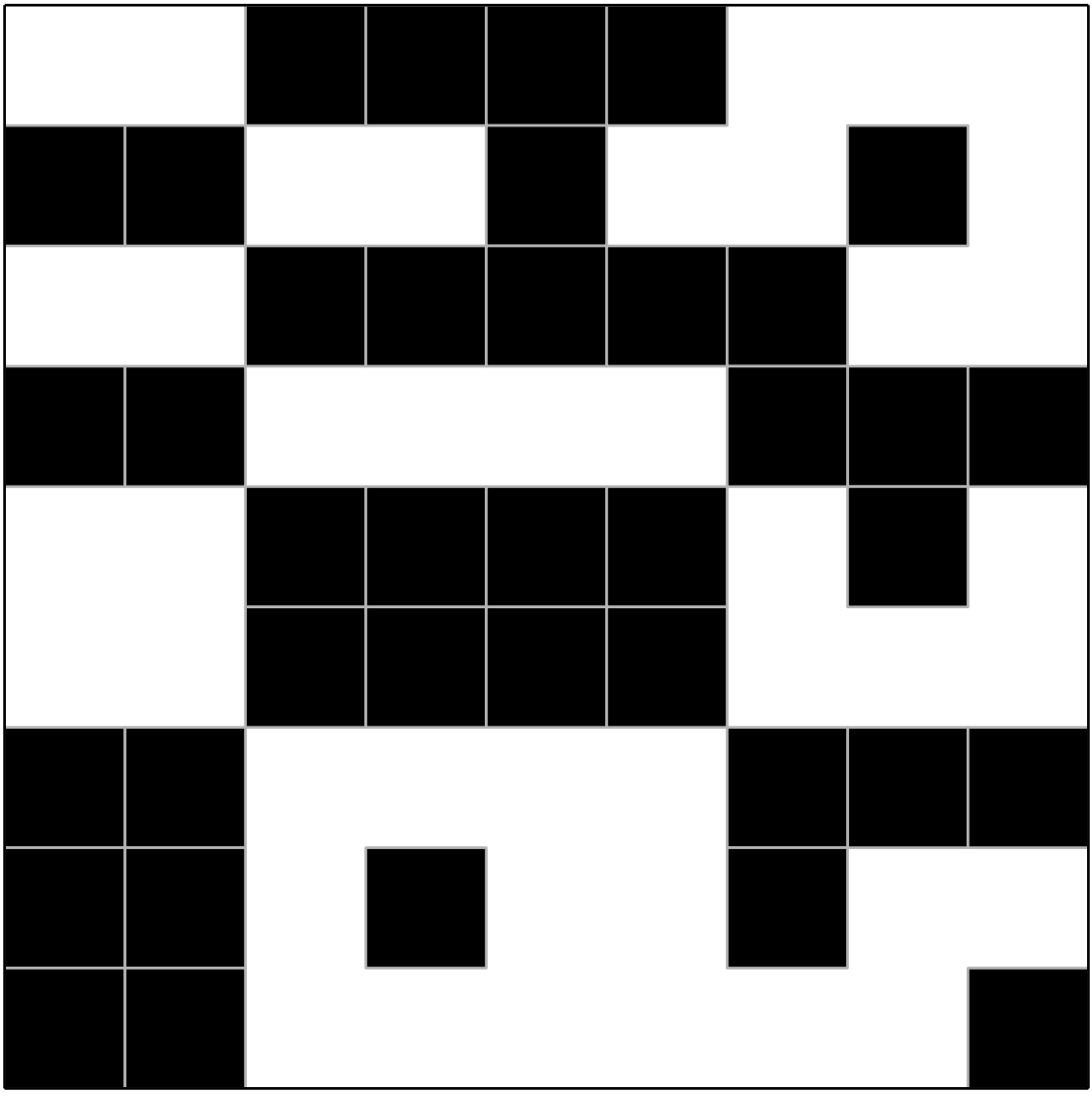

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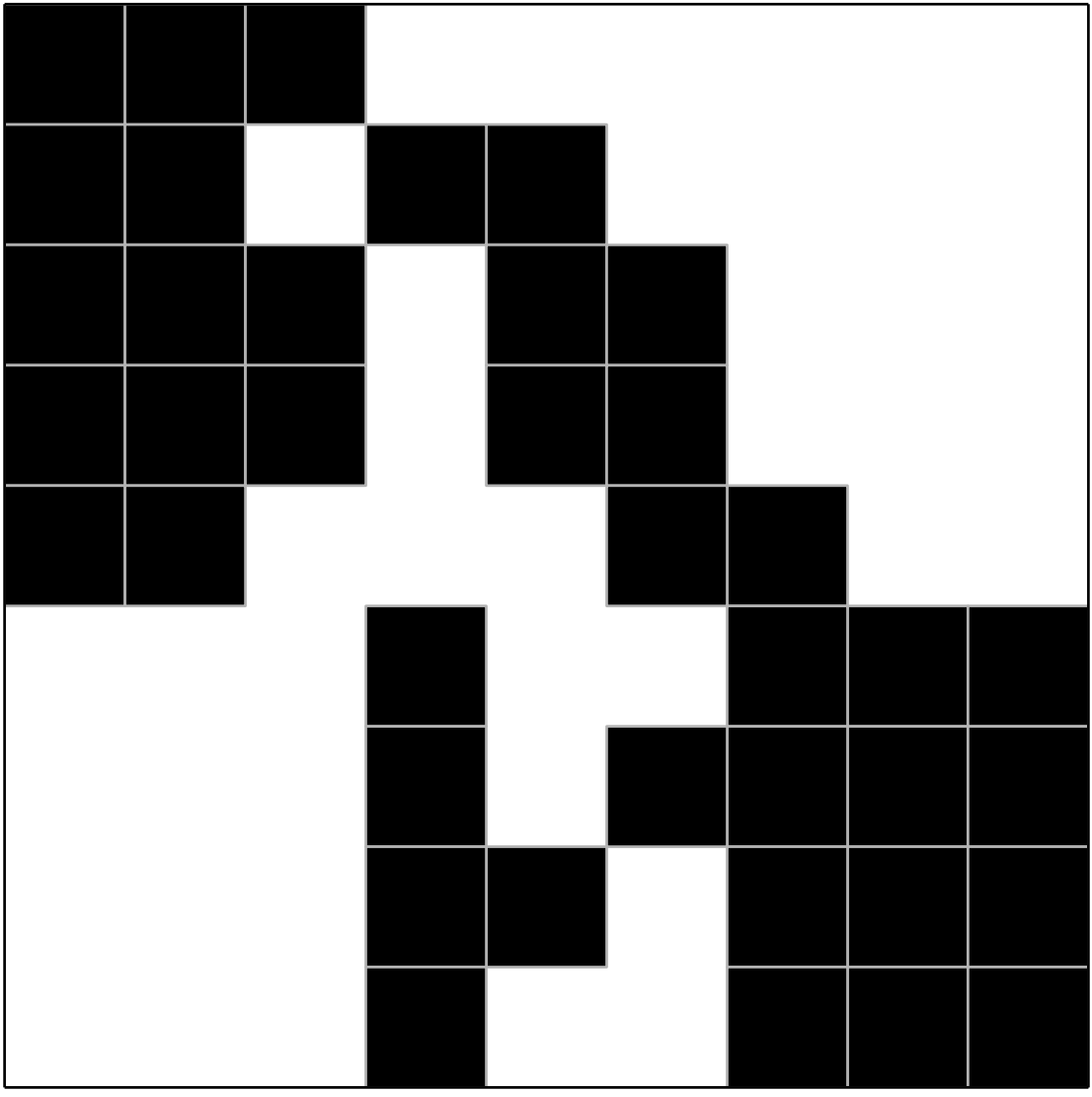

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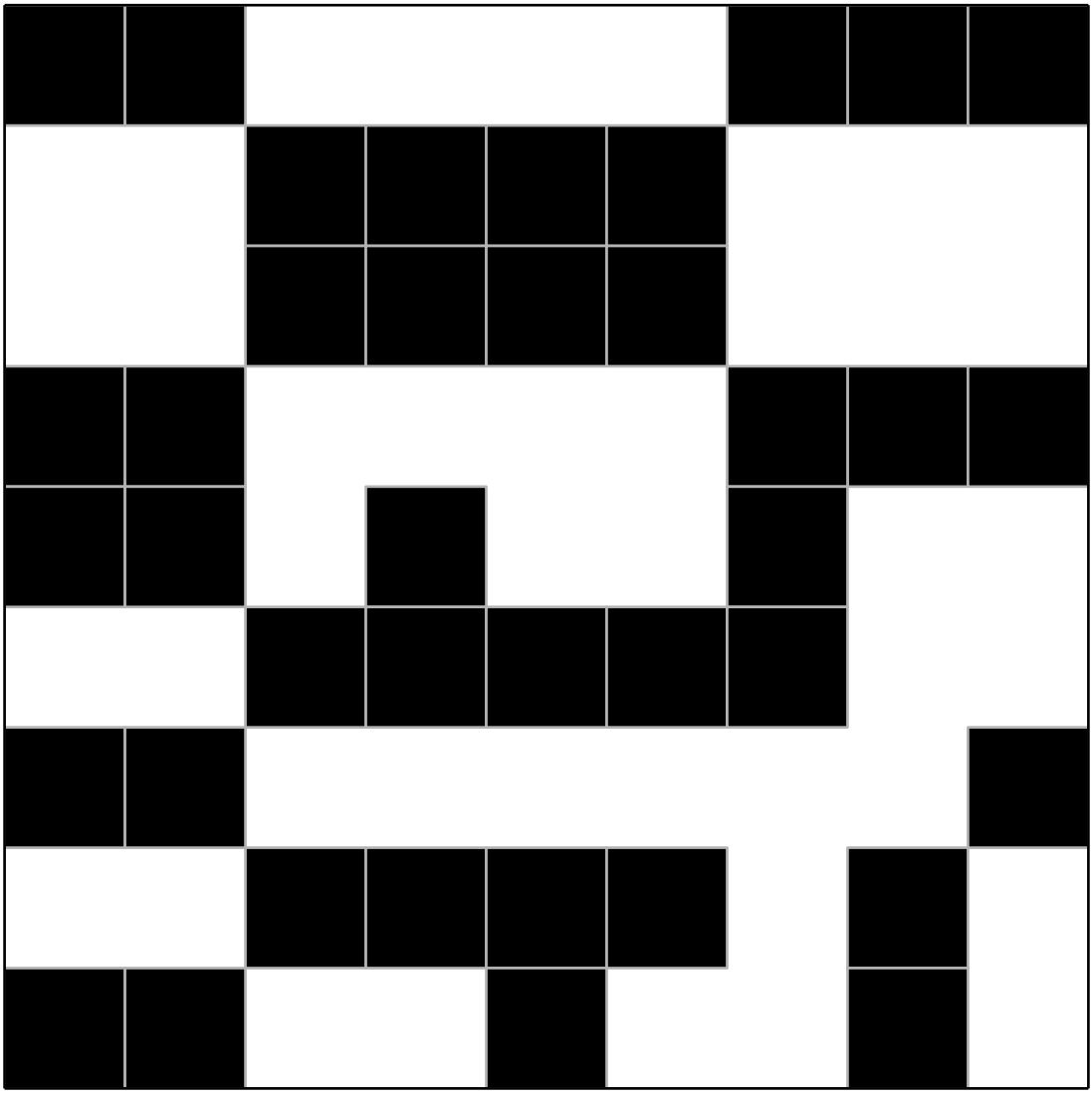

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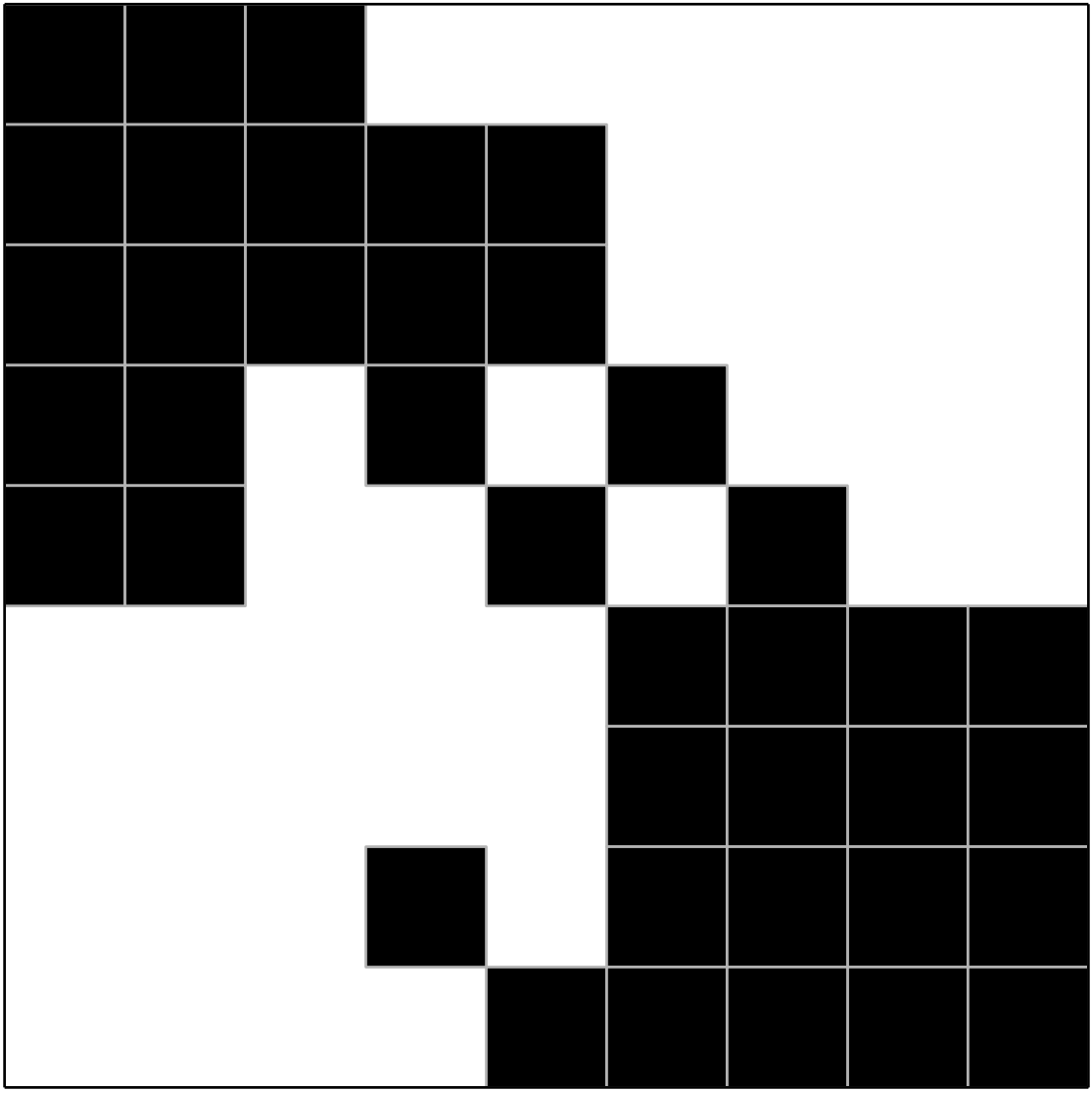
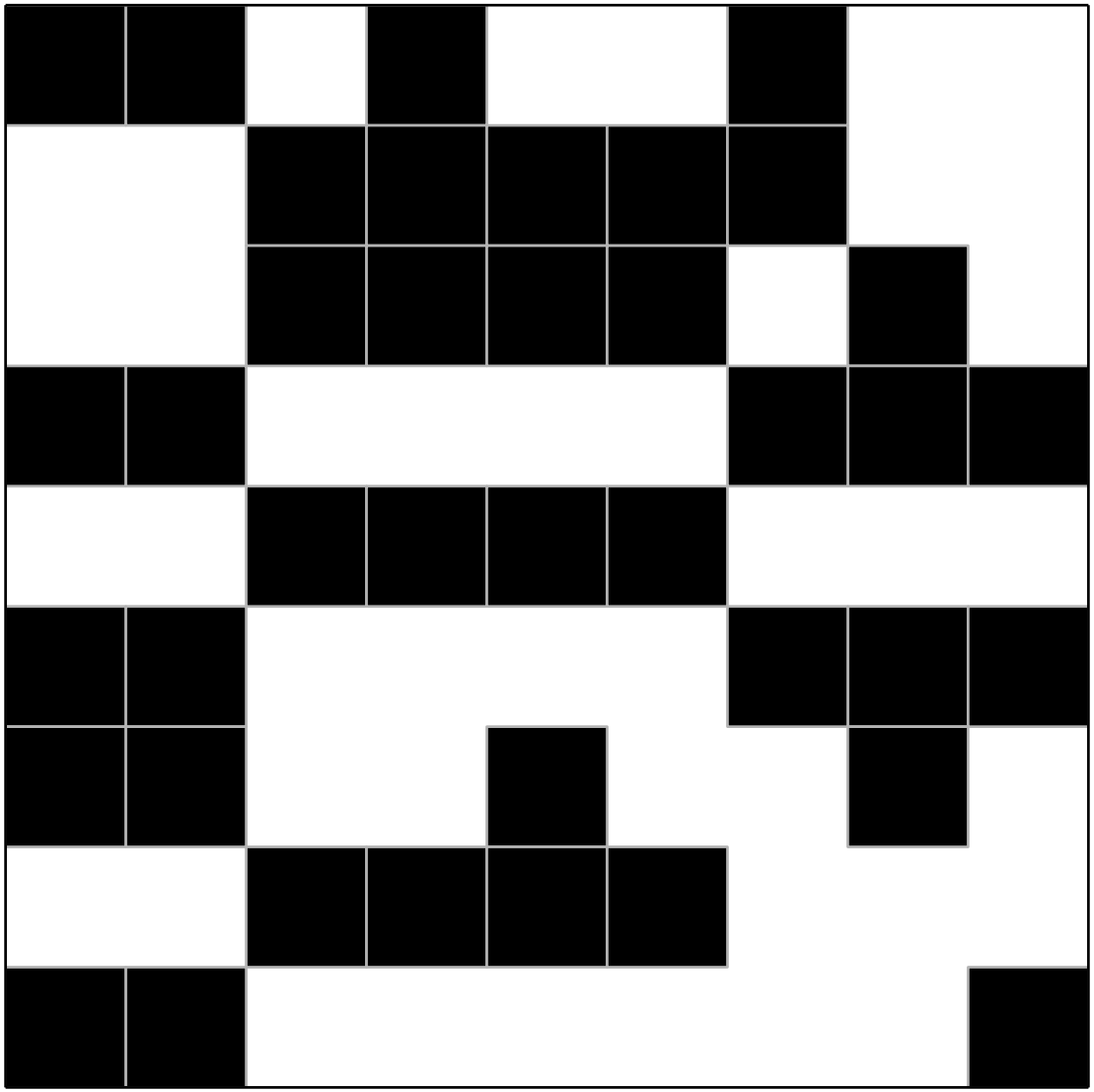
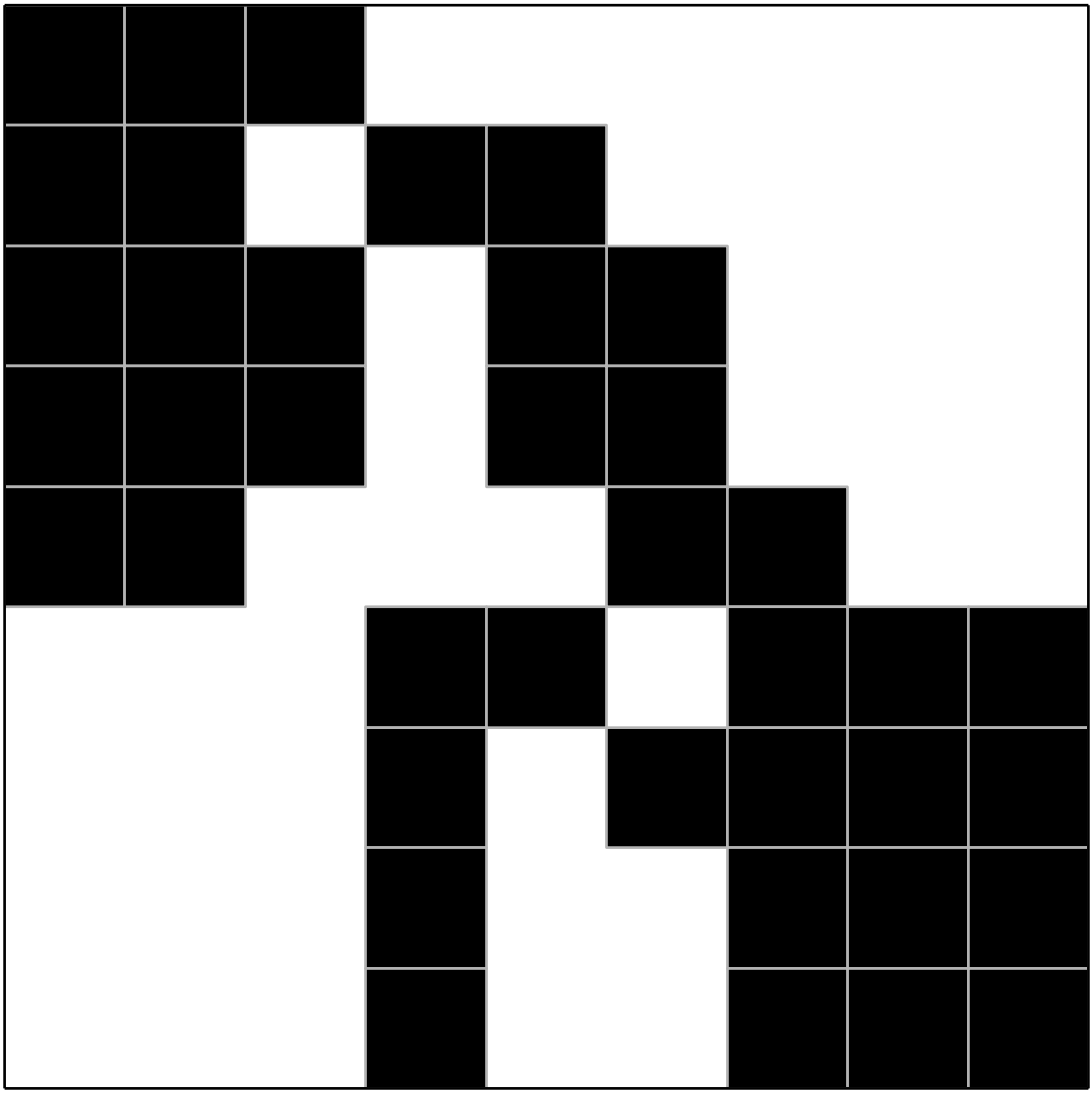


lib1_ex8_5_5-04 9x9 (39) con: 4, var: 5

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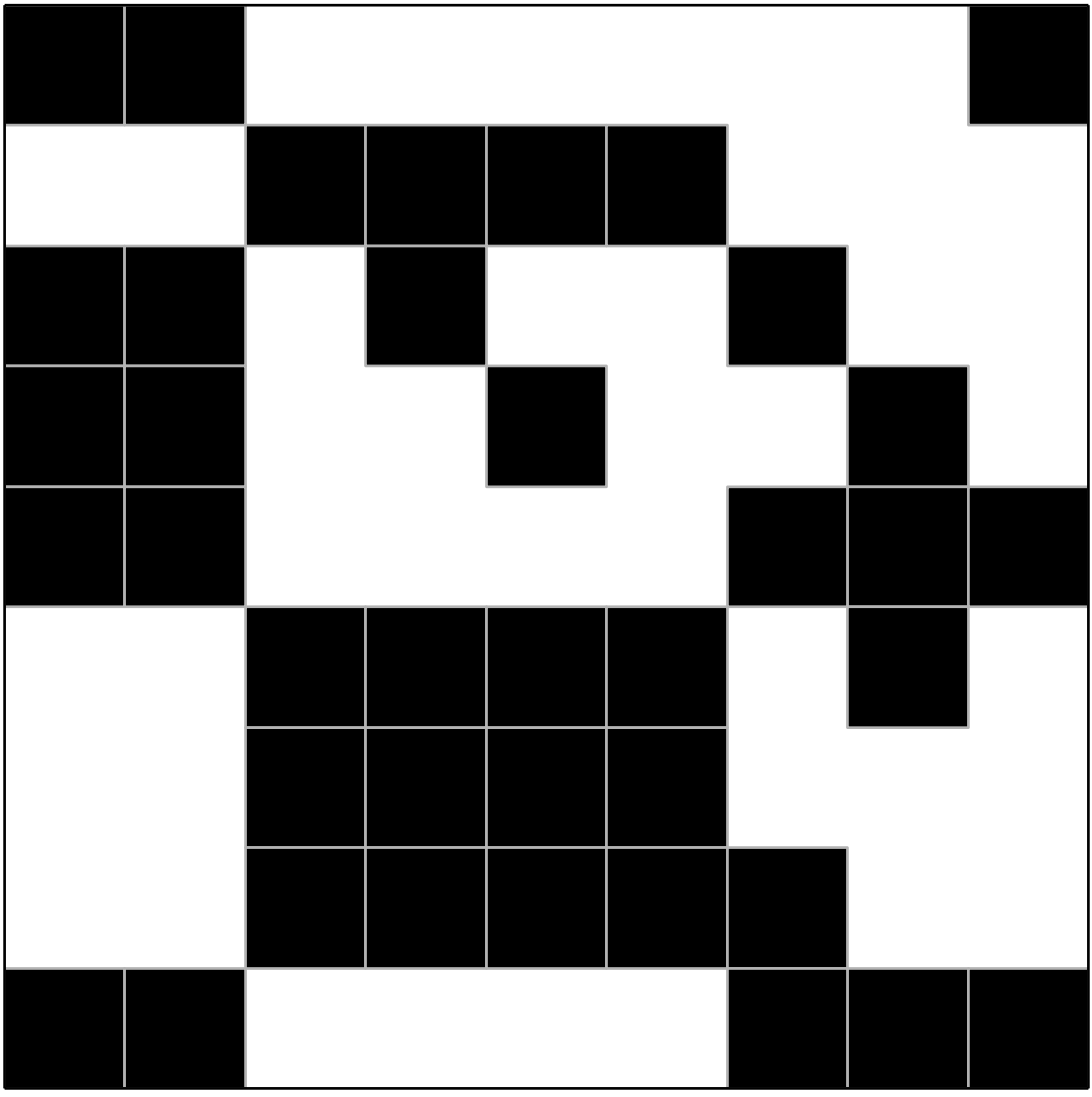
lib1_ex8_5_5-05 9x9 (39) con: 4, var: 5



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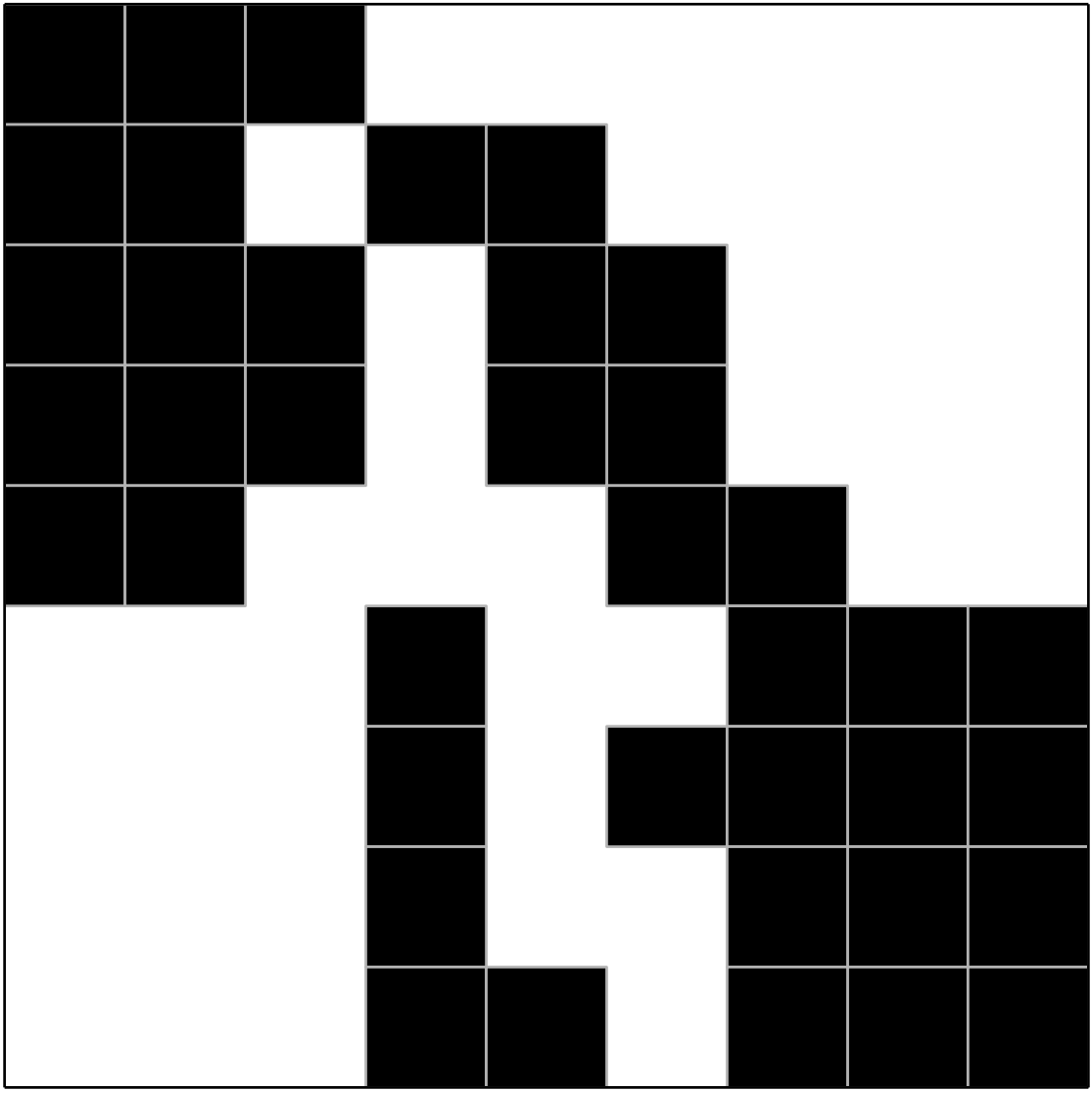
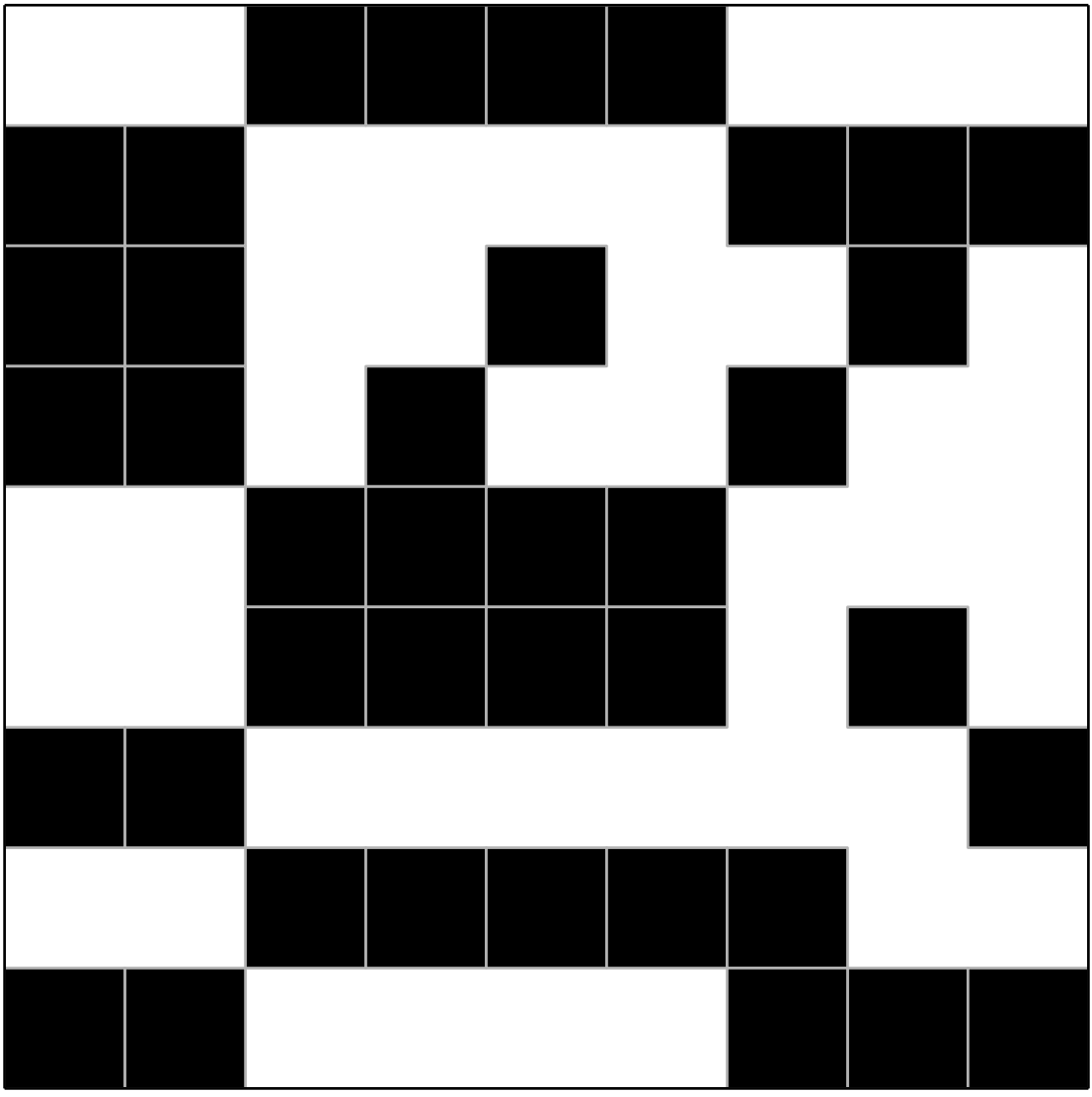


lib1_ex8_5_5-06 9x9 (39) con: 4, var: 5



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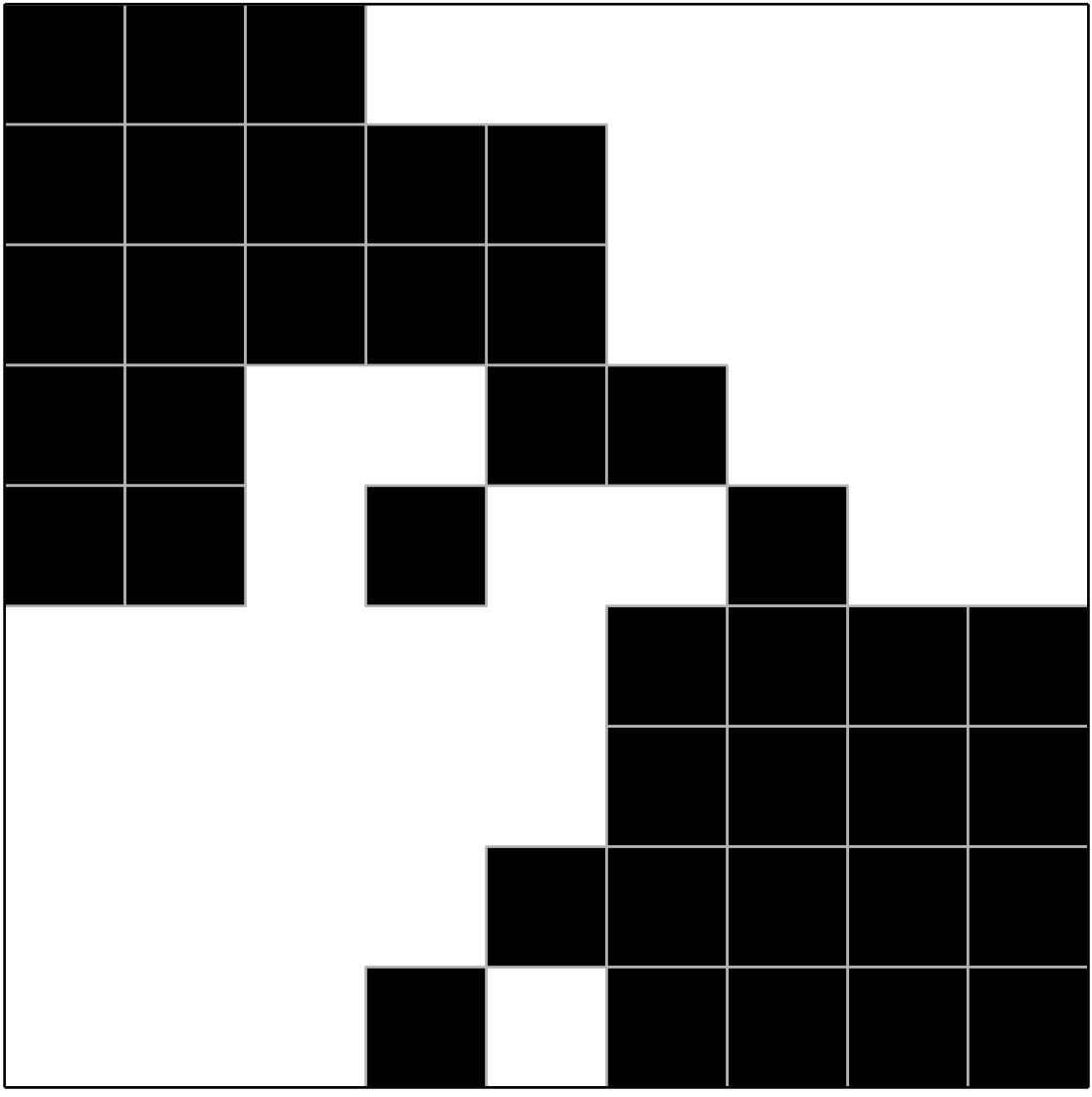

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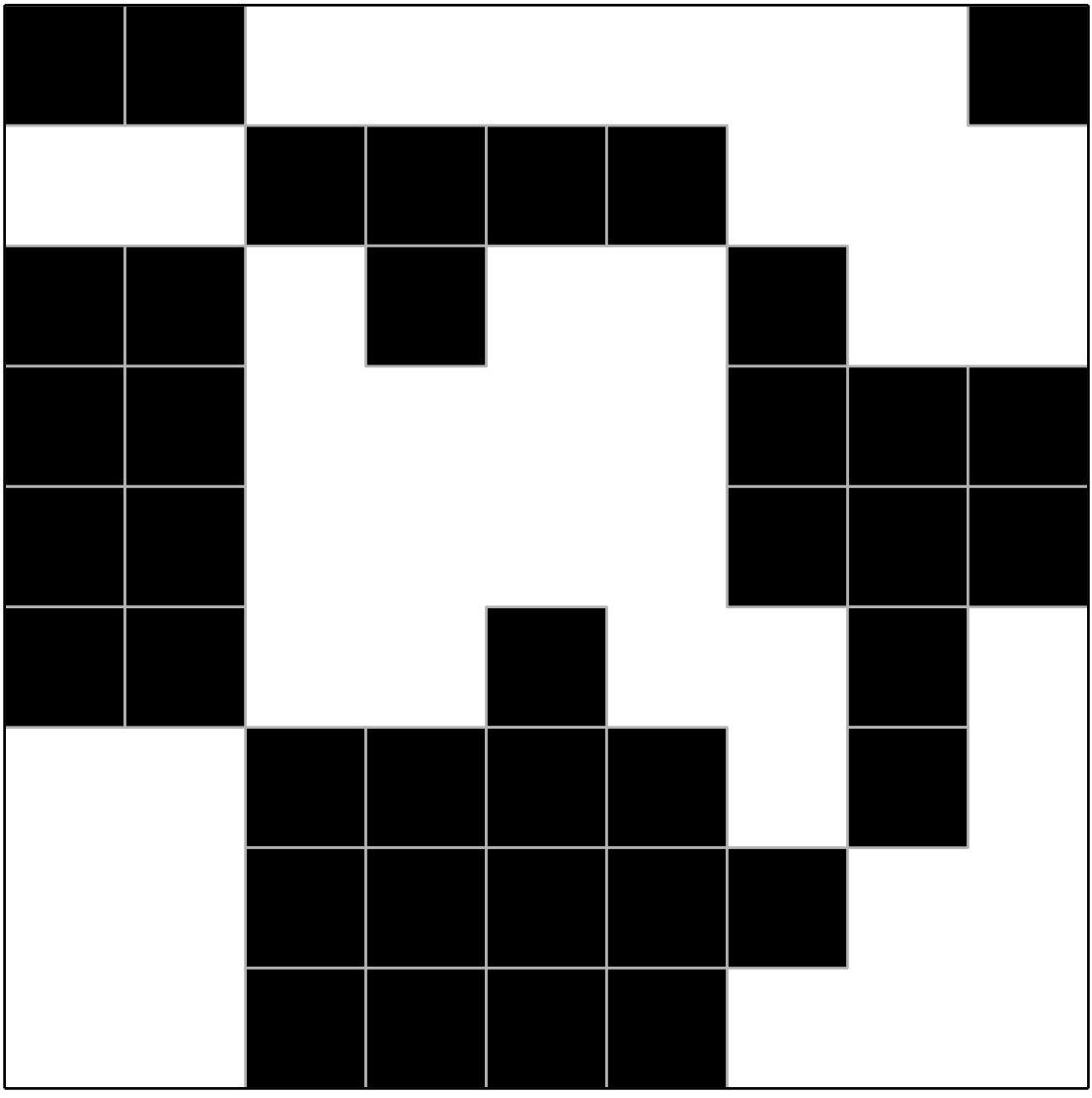

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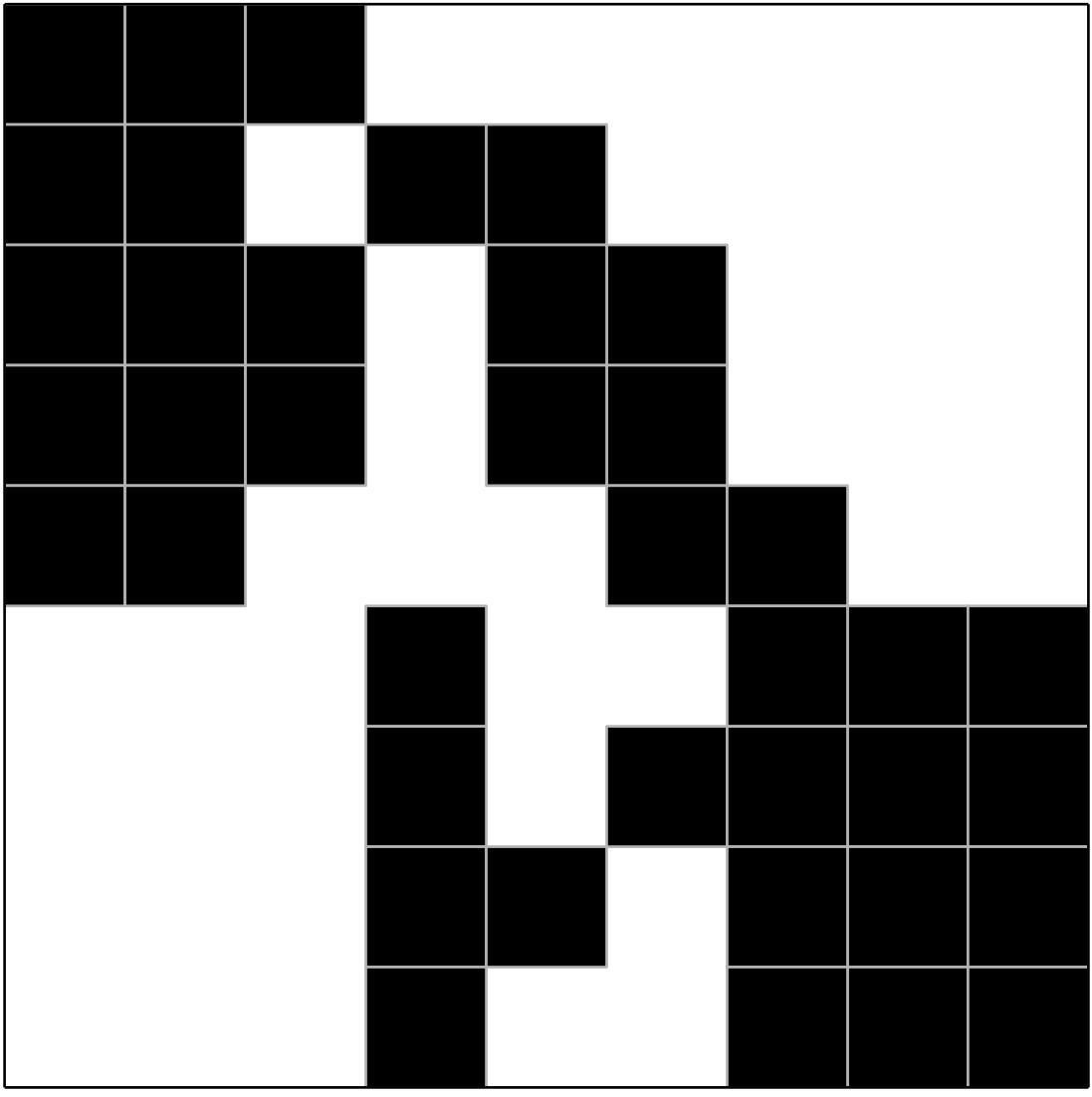
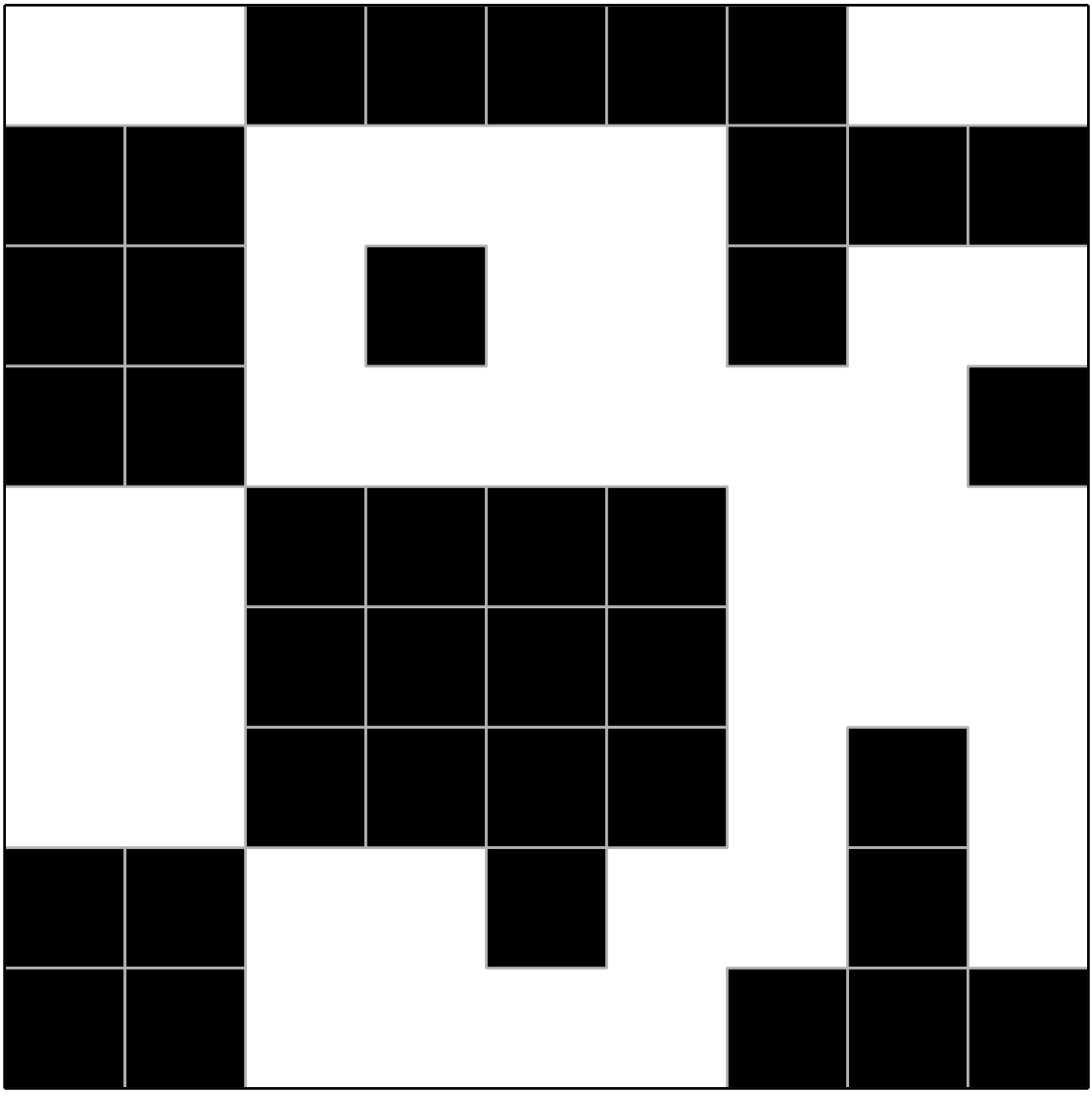


lib1_ex8_5_5-08 9x9 (39) con: 4, var: 5



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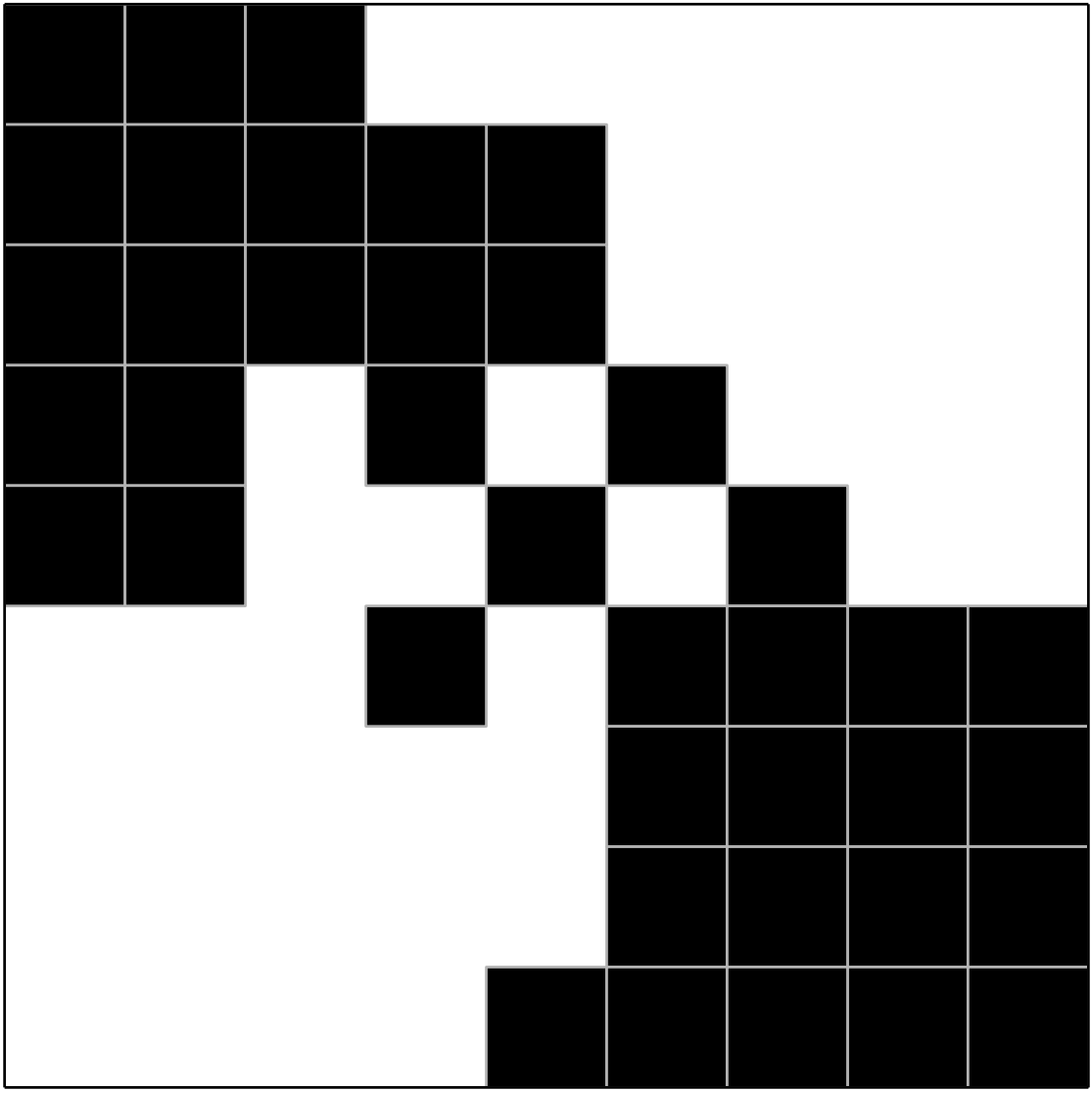

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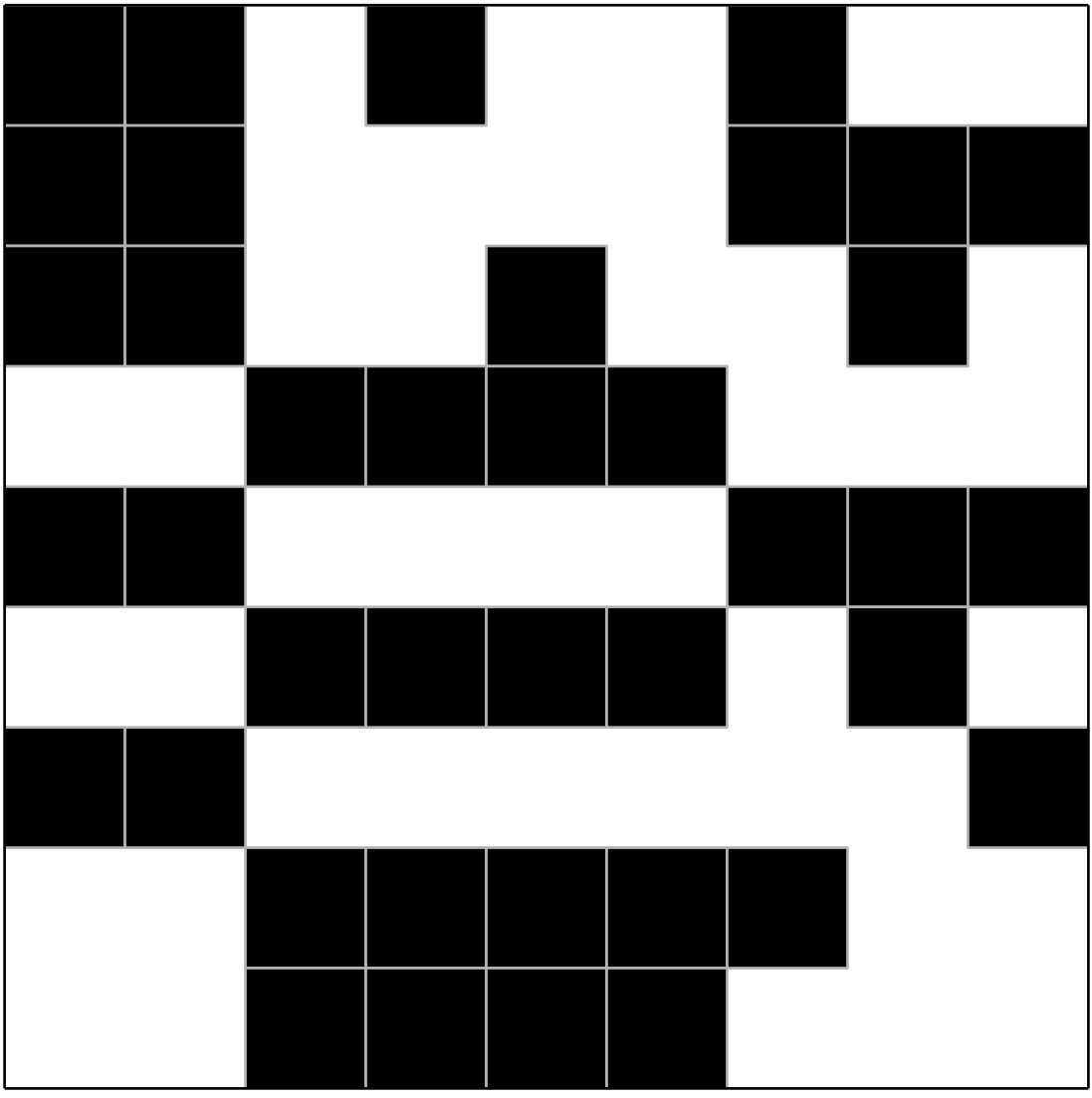

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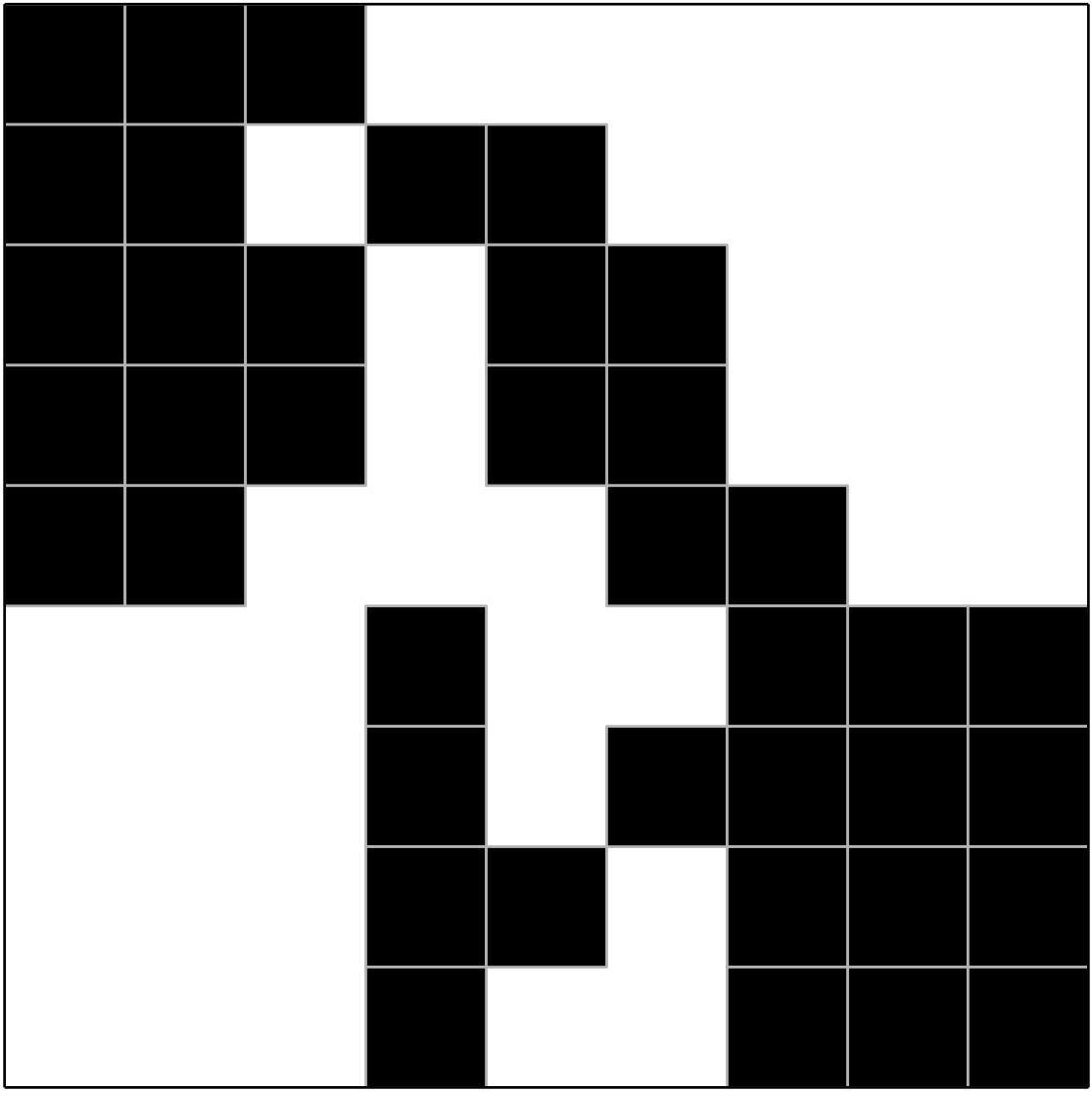
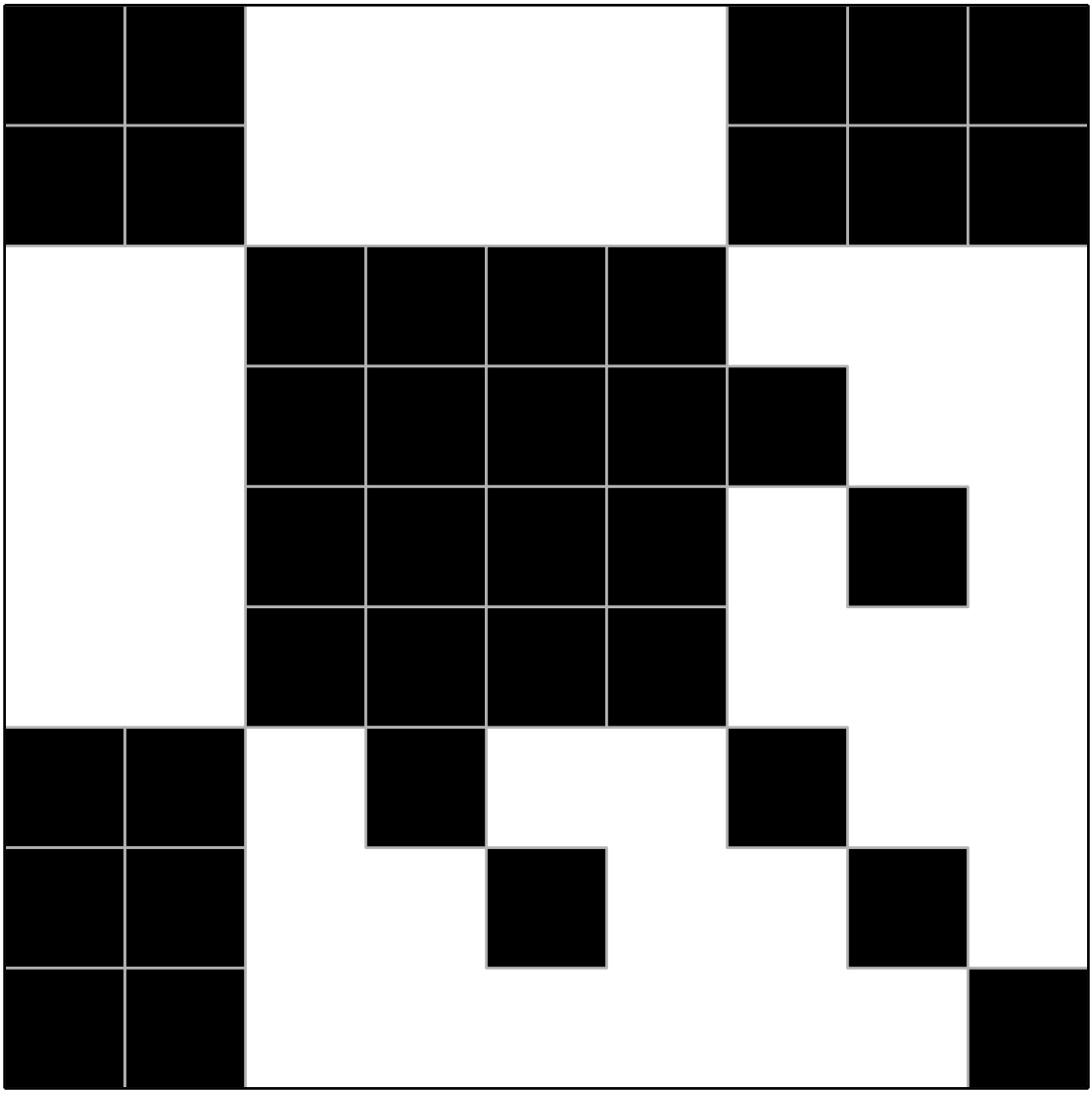
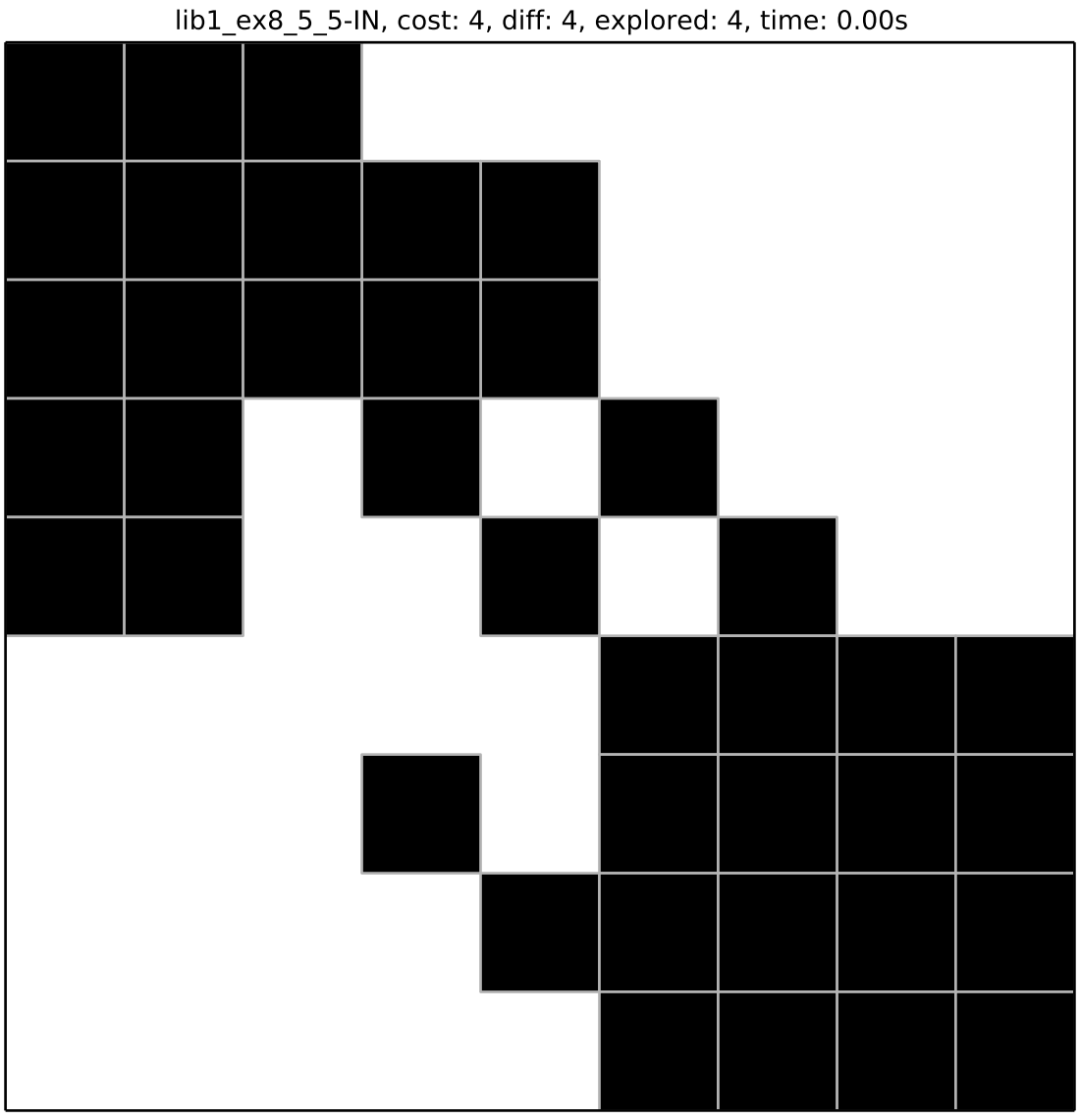
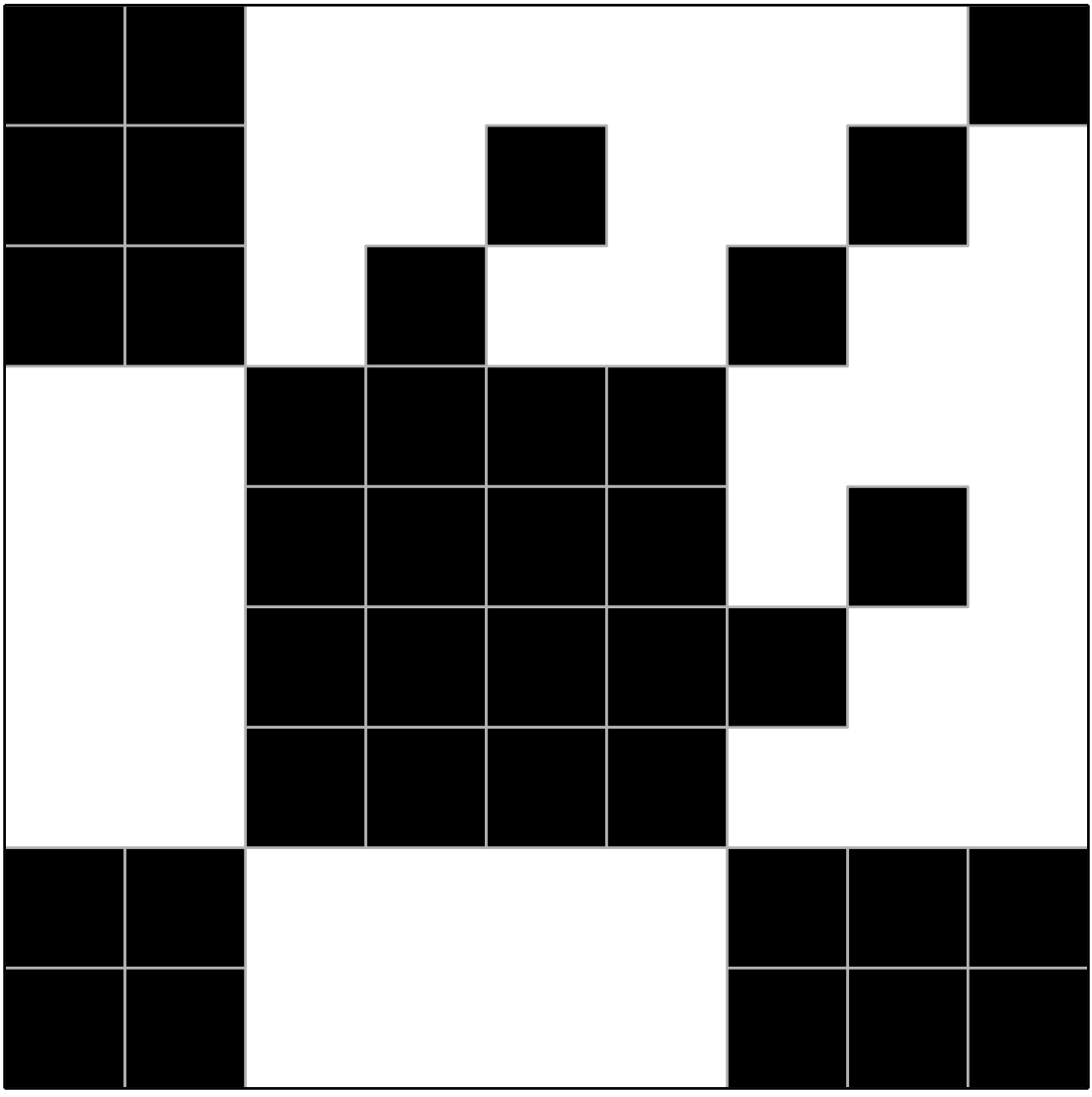


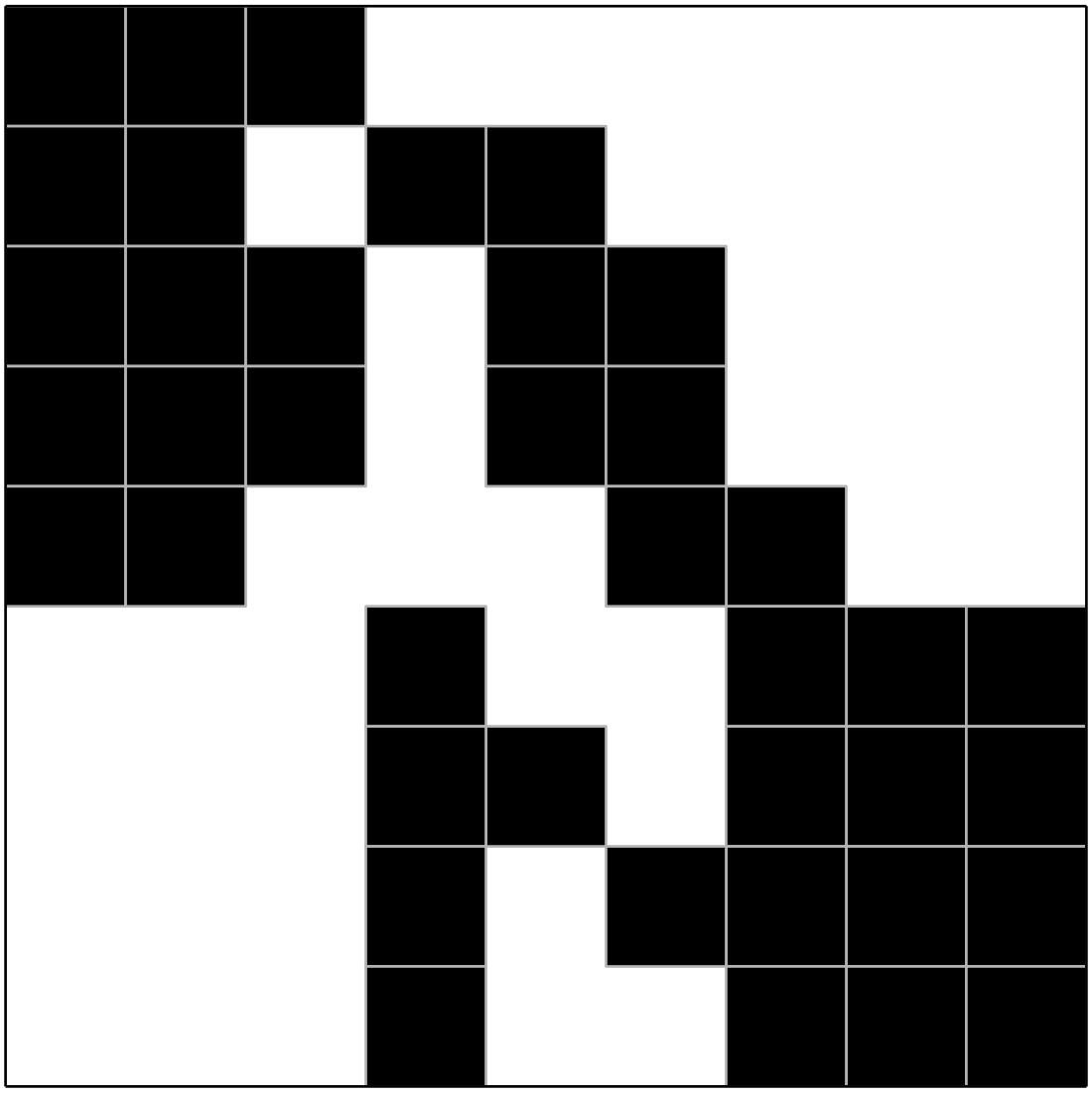
lib1_ex8_5_5-IN 9x9 (39) con: 4, var: 5



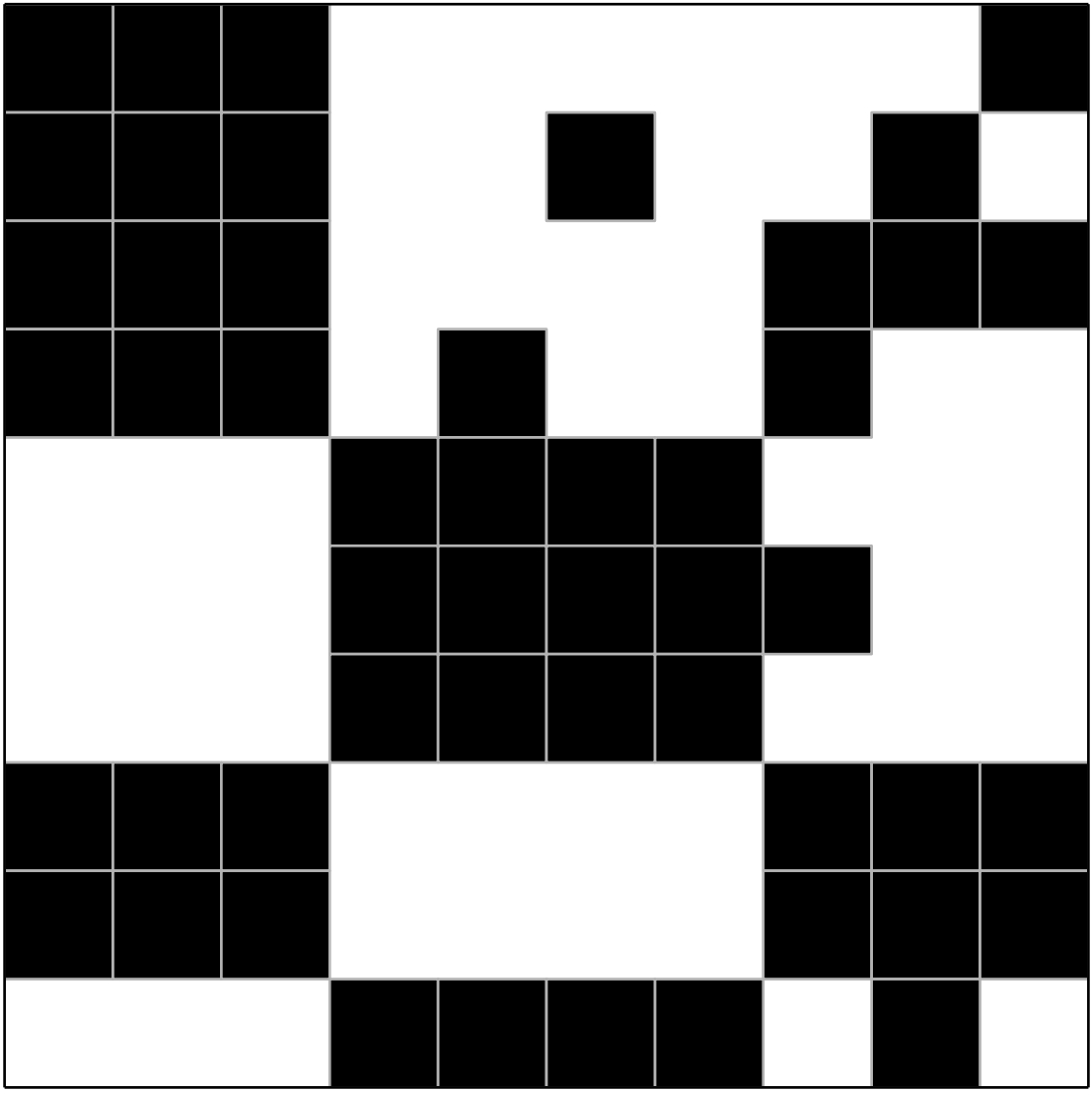

lib1_ex8_5_5-IN, cost: 4, diff: 4, explored: 4, time: 0.00s

lib1_ex8_5_5-RE 9x9 (39) con: 4, var: 5




lib1_ex8_5_5-RE, cost: 4, diff: 4, explored: 4, time: 0.00s

lib1_ex8_5_6-00 10x10 (50) con: 4, var: 6



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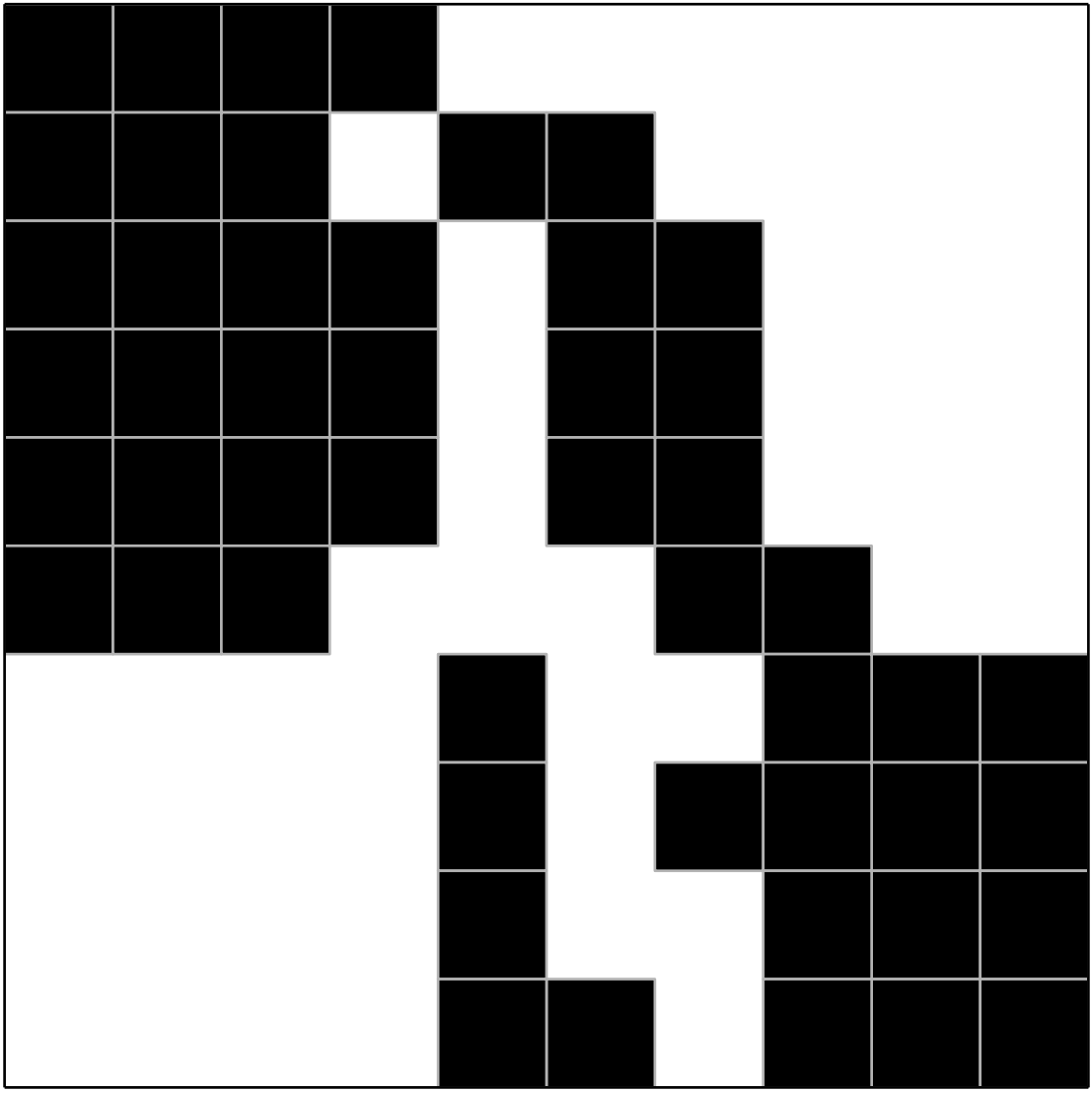
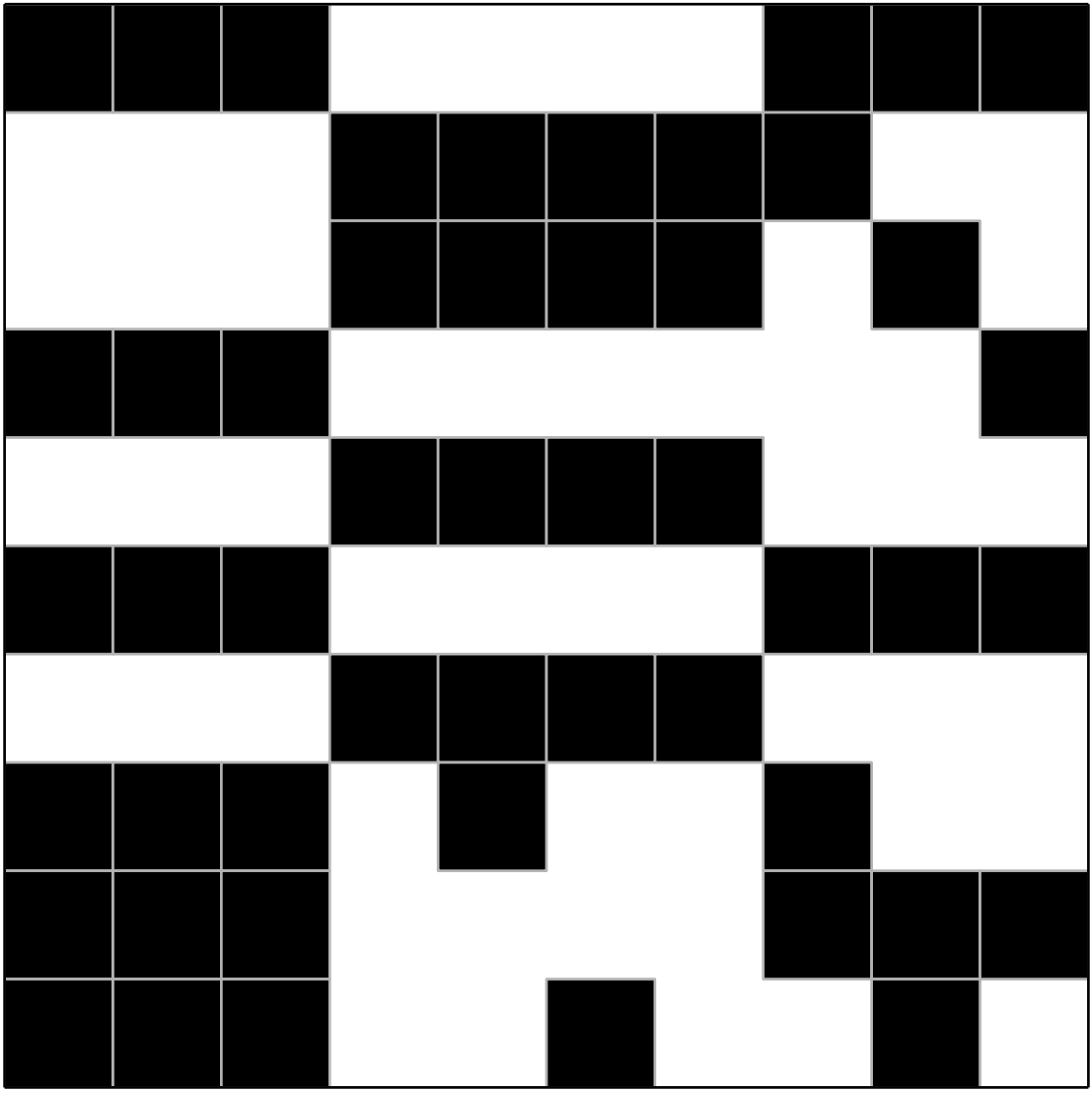


lib1_ex8_5_6-01 10x10 (50) con: 4, var: 6



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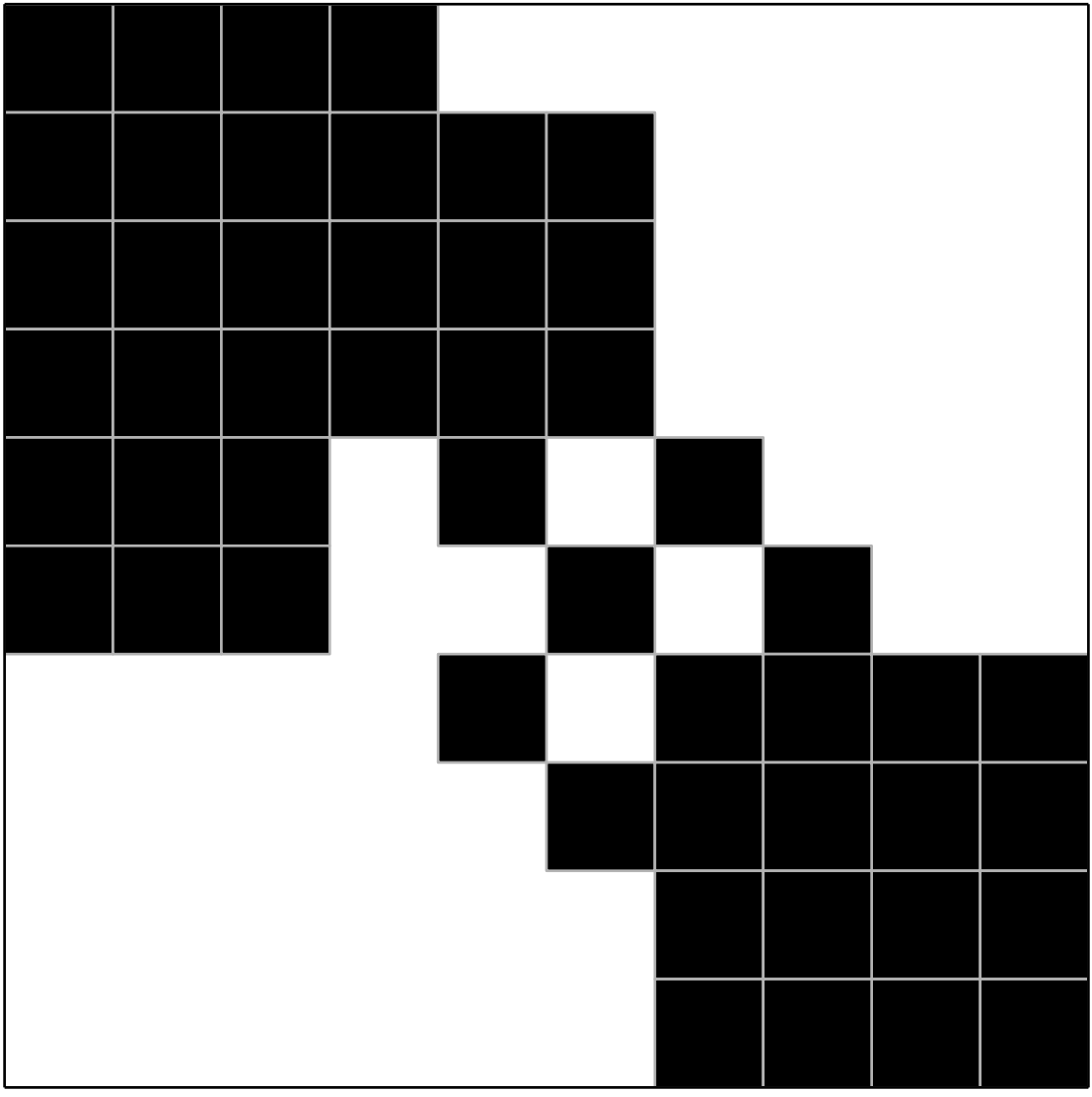
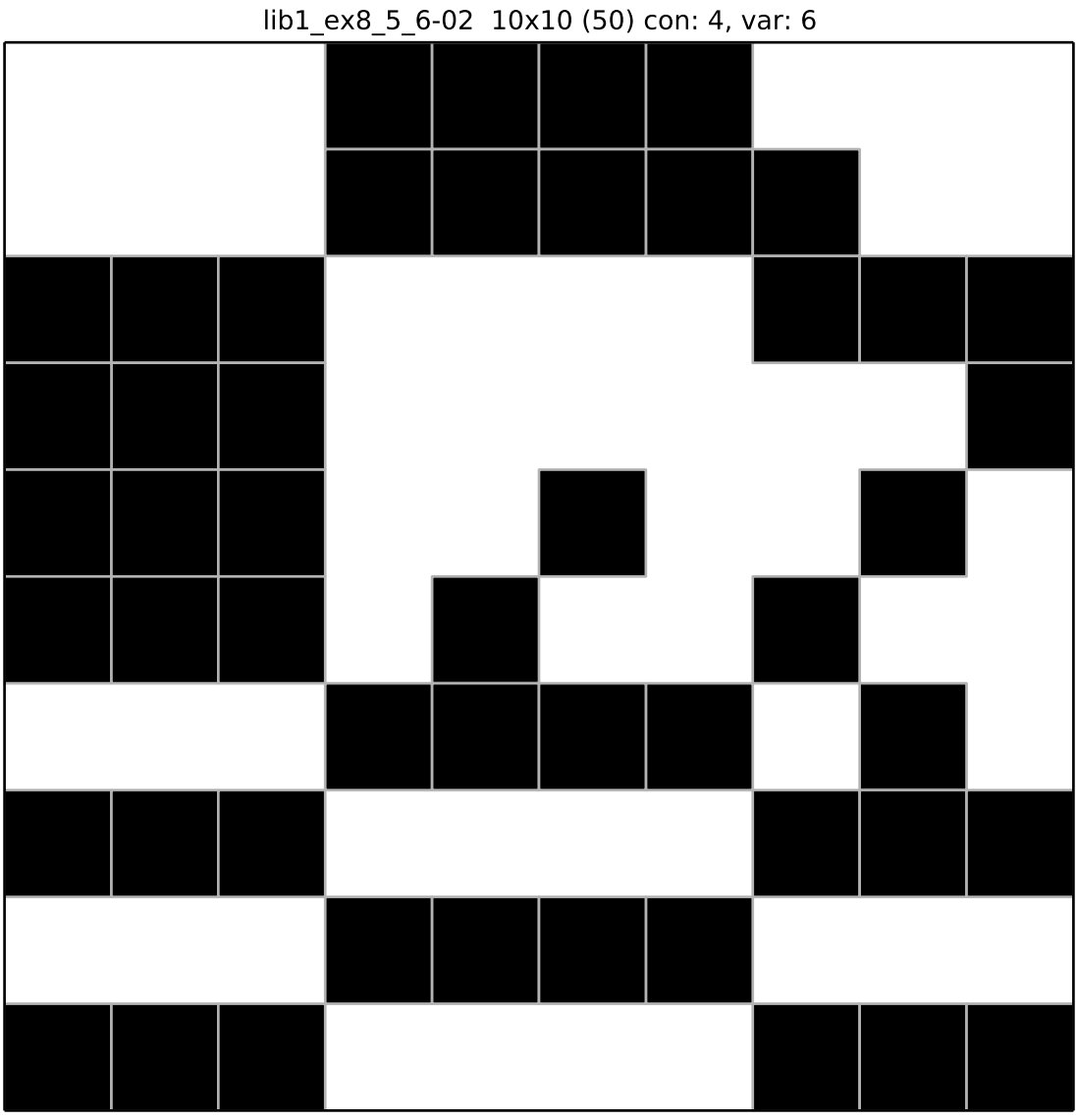
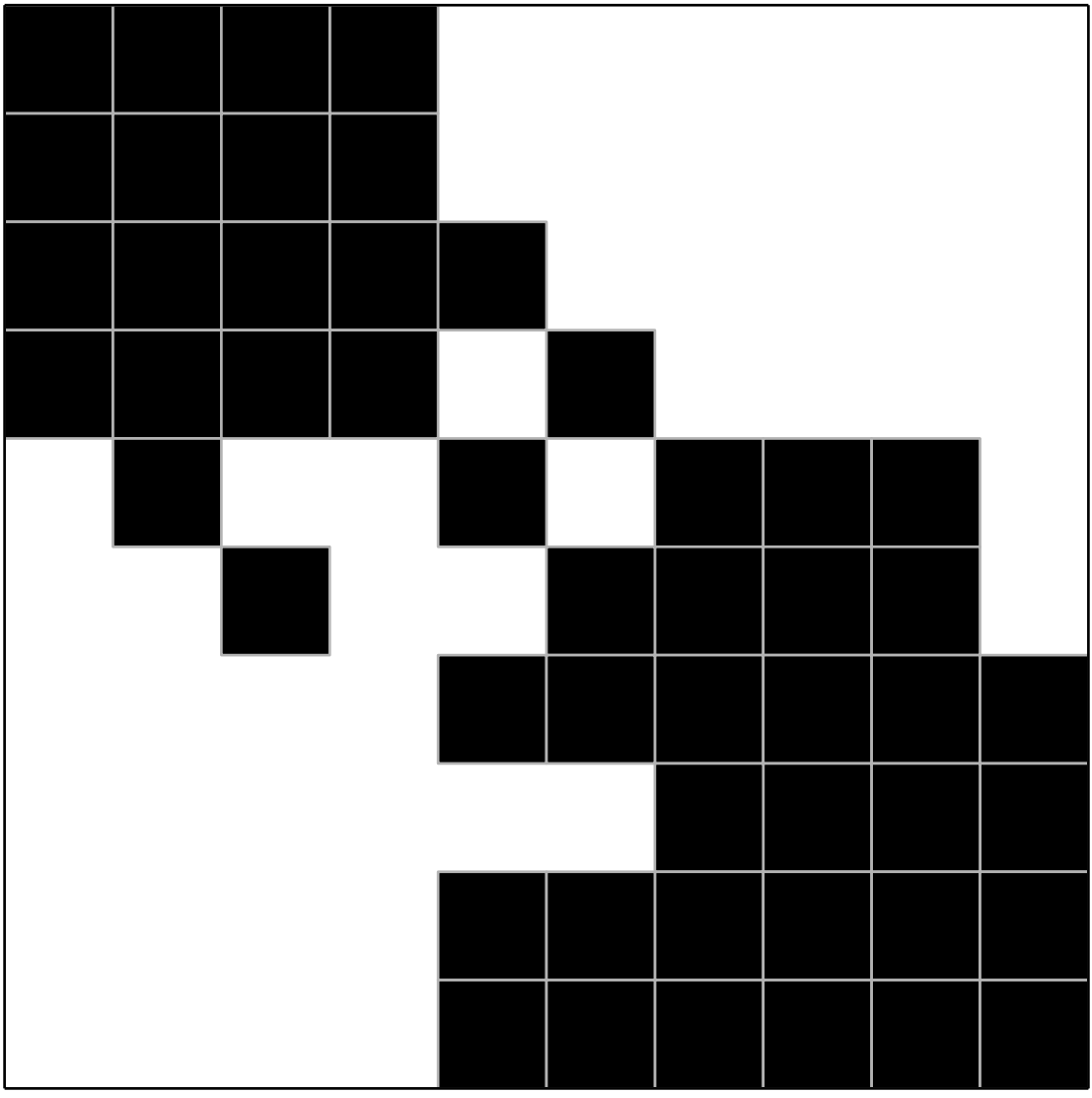
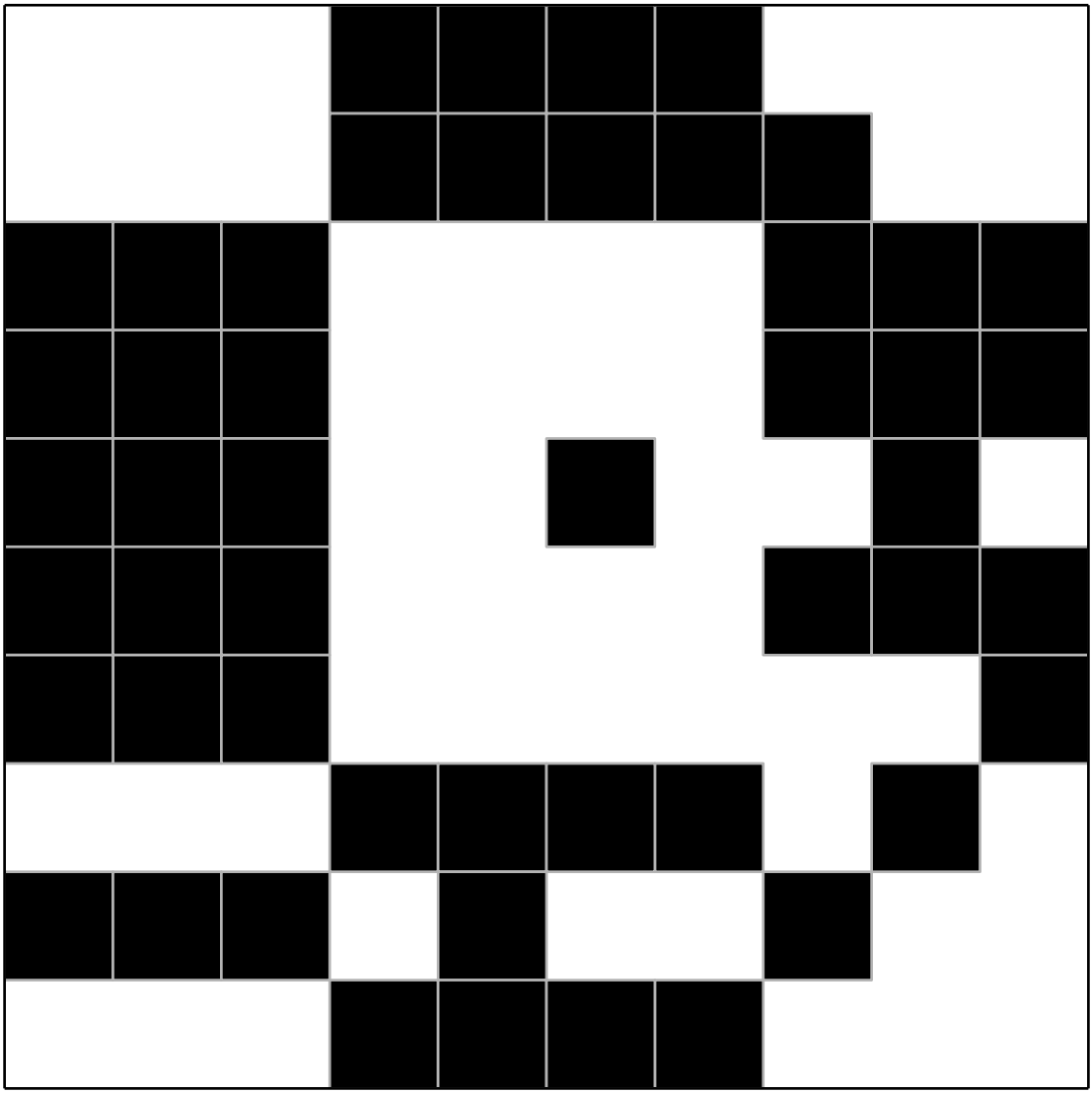



lib1_ex8_5_6-02 10x10 (50) con: 4, var: 6

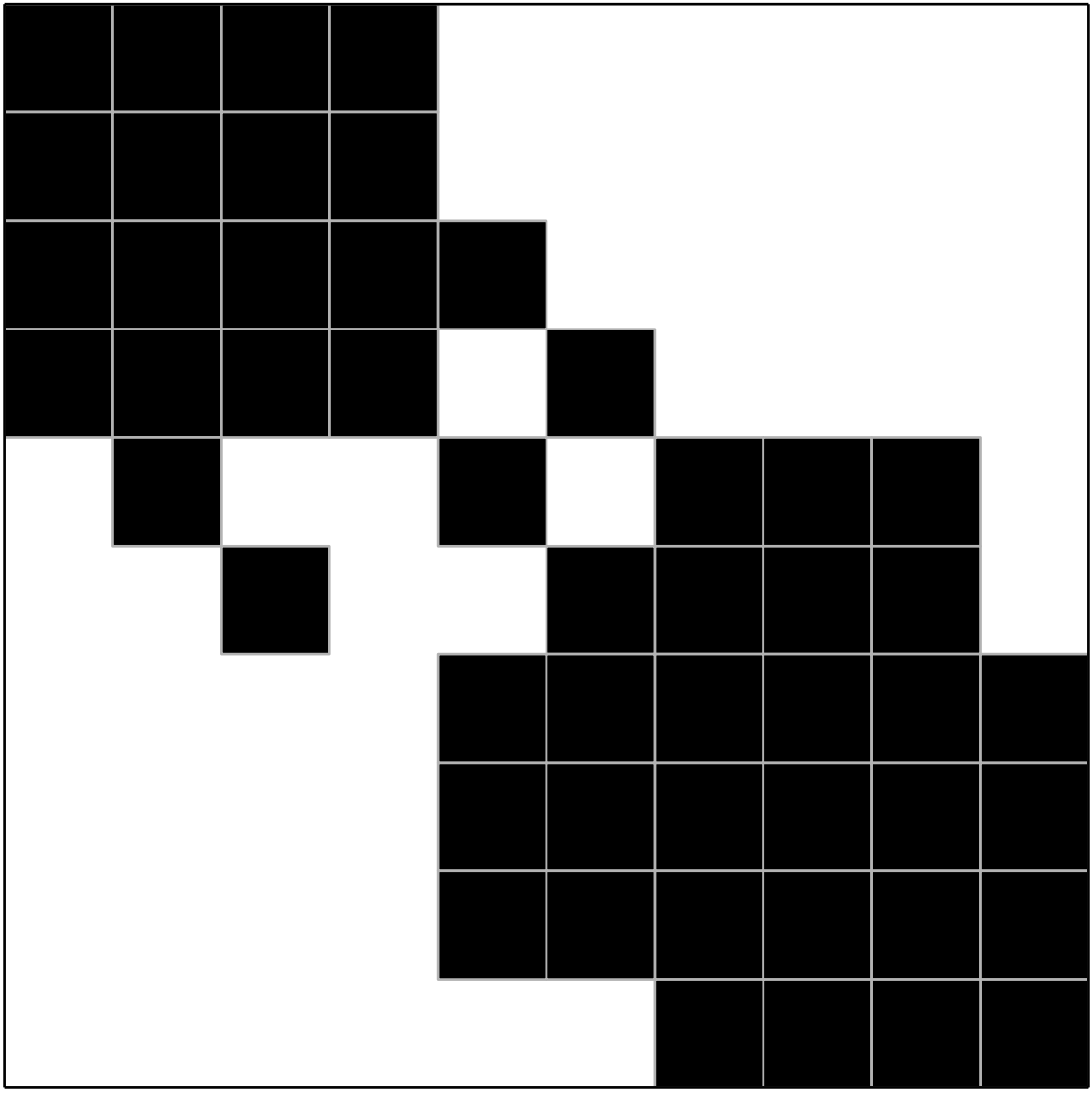
lib1_ex8_5_6-02, cost: 5, diff: 5, explored: 4, time: 0.00s



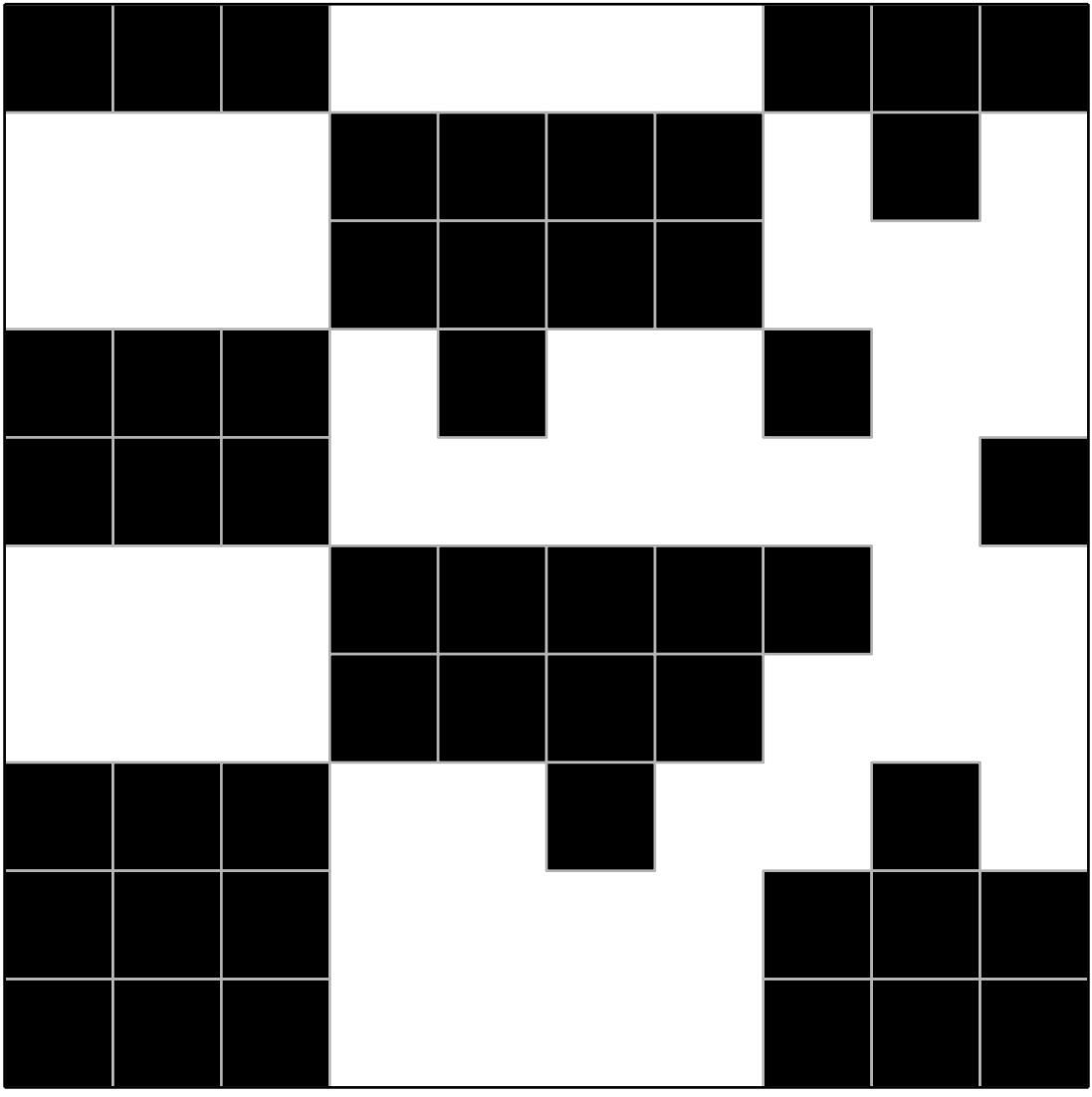
lib1_ex8_5_6-03 10x10 (50) con: 4, var: 6



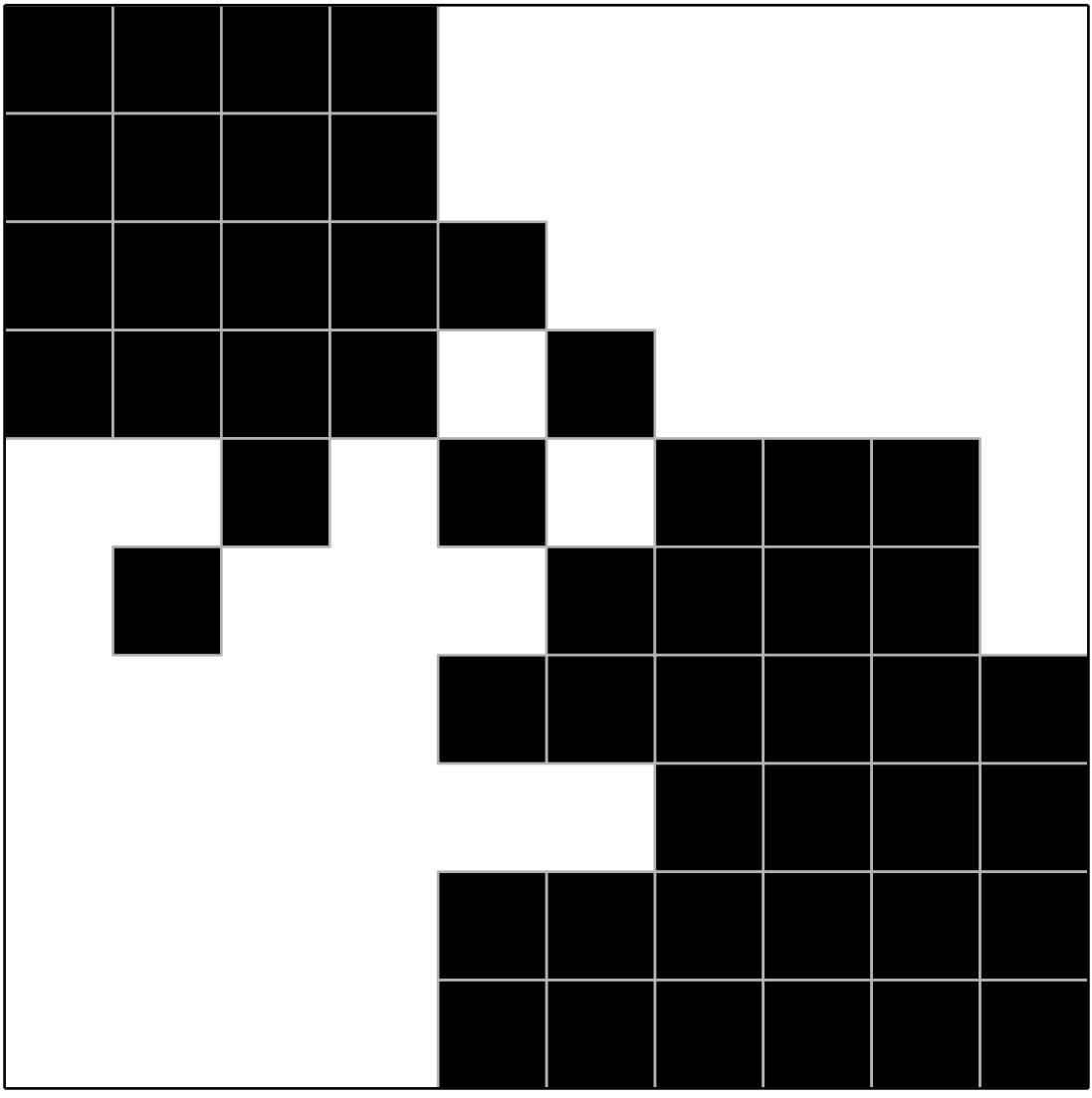
lib1_ex8_5_6-03, cost: 5, diff: 5, explored: 4, time: 0.00s



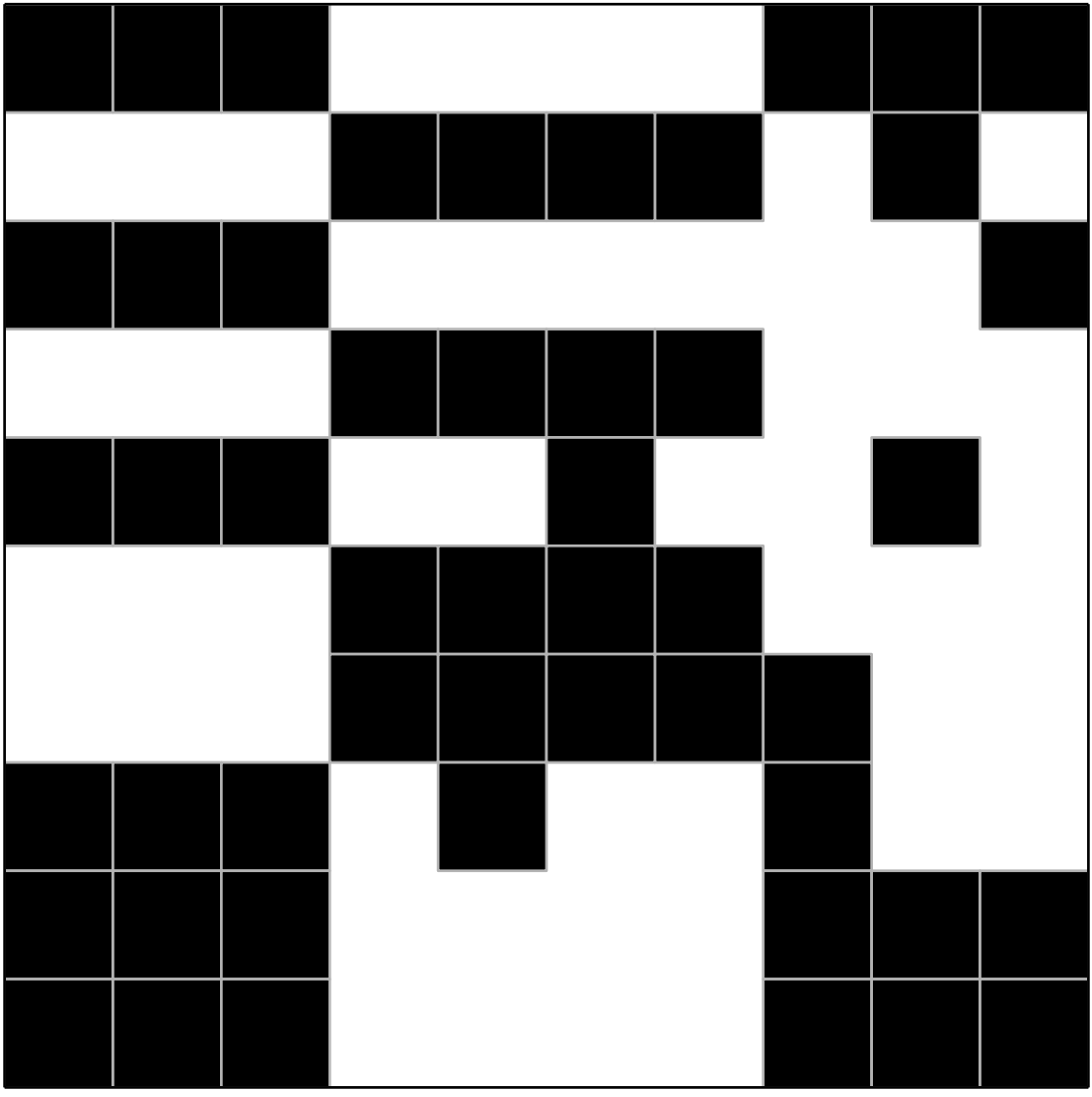
lib1_ex8_5_6-04 10x10 (50) con: 4, var: 6



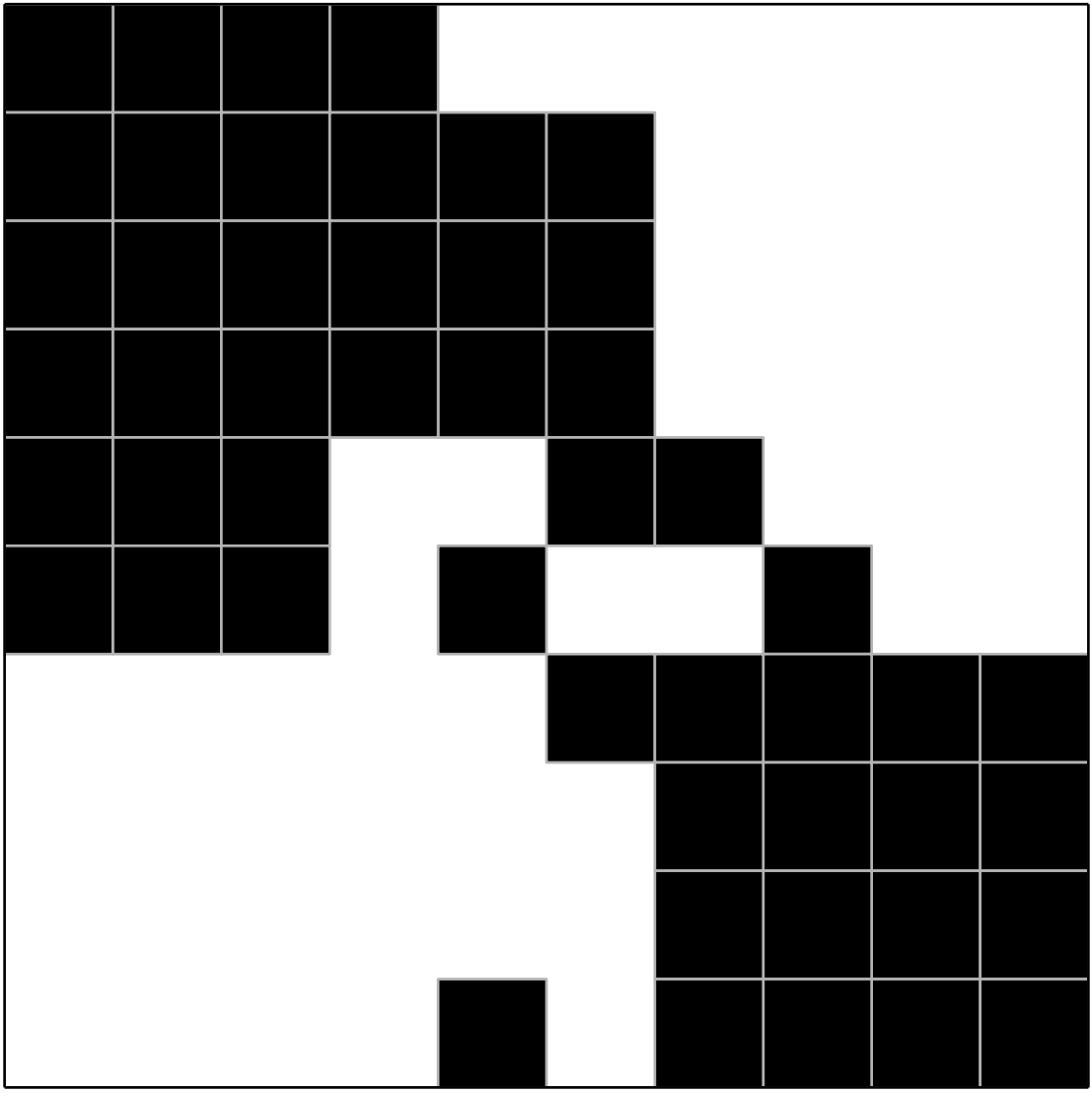
lib1_ex8_5_6-04, cost: 5, diff: 5, explored: 4, time: 0.00s



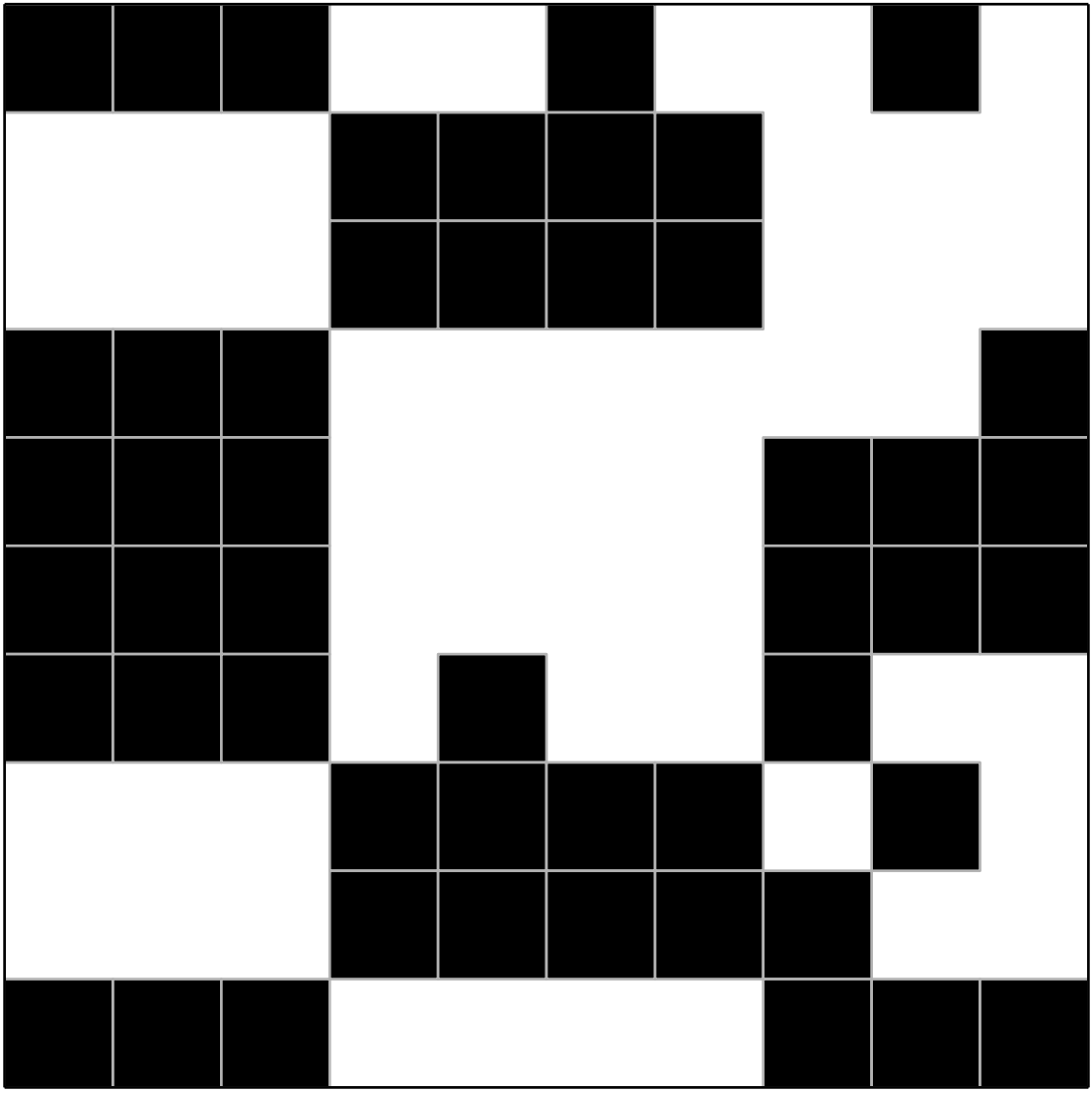
lib1_ex8_5_6-05 10x10 (50) con: 4, var: 6



lib1_ex8_5_6-05, cost: 5, diff: 5, explored: 4, time: 0.00s



lib1_ex8_5_6-06 10x10 (50) con: 4, var: 6



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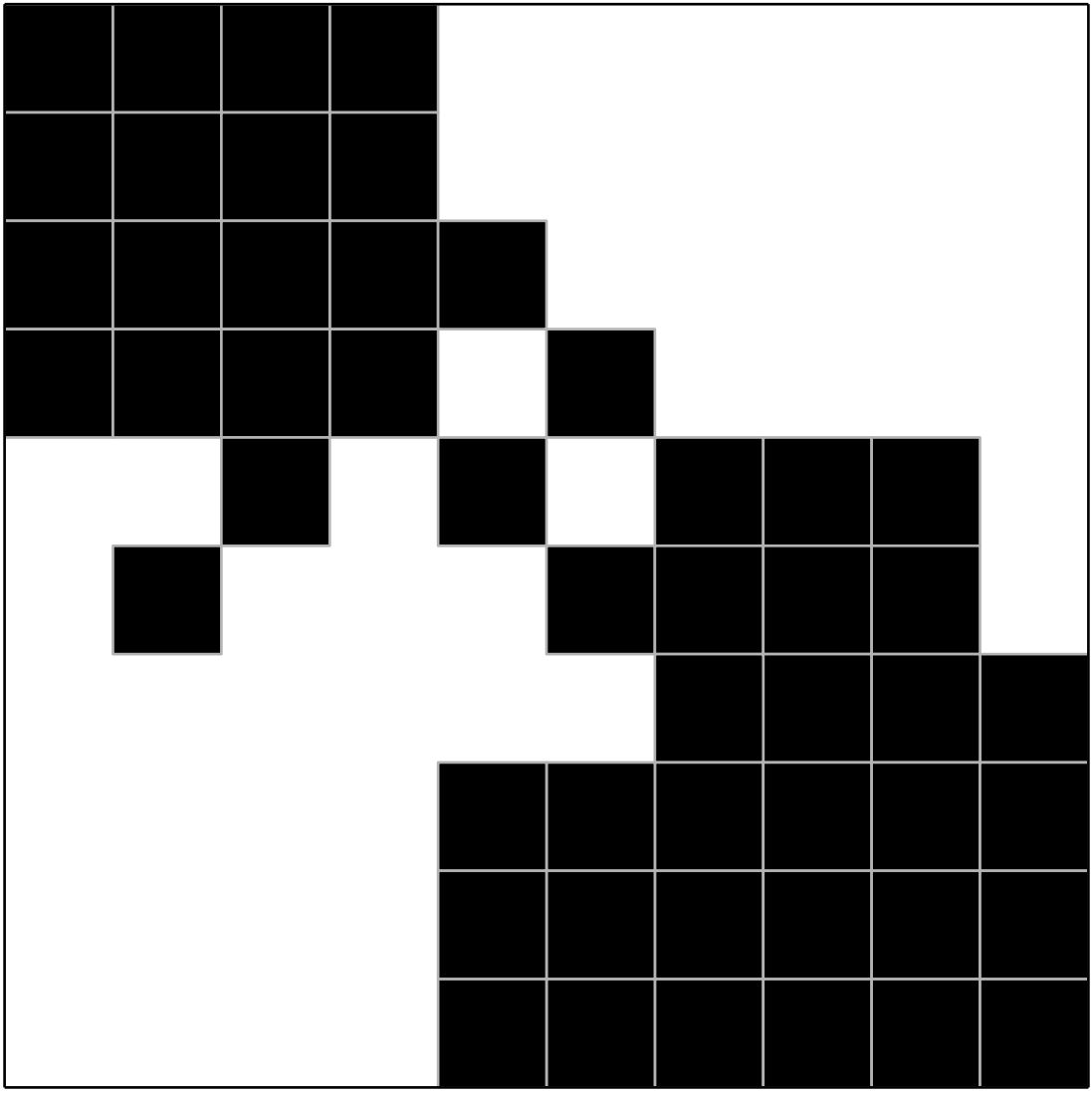
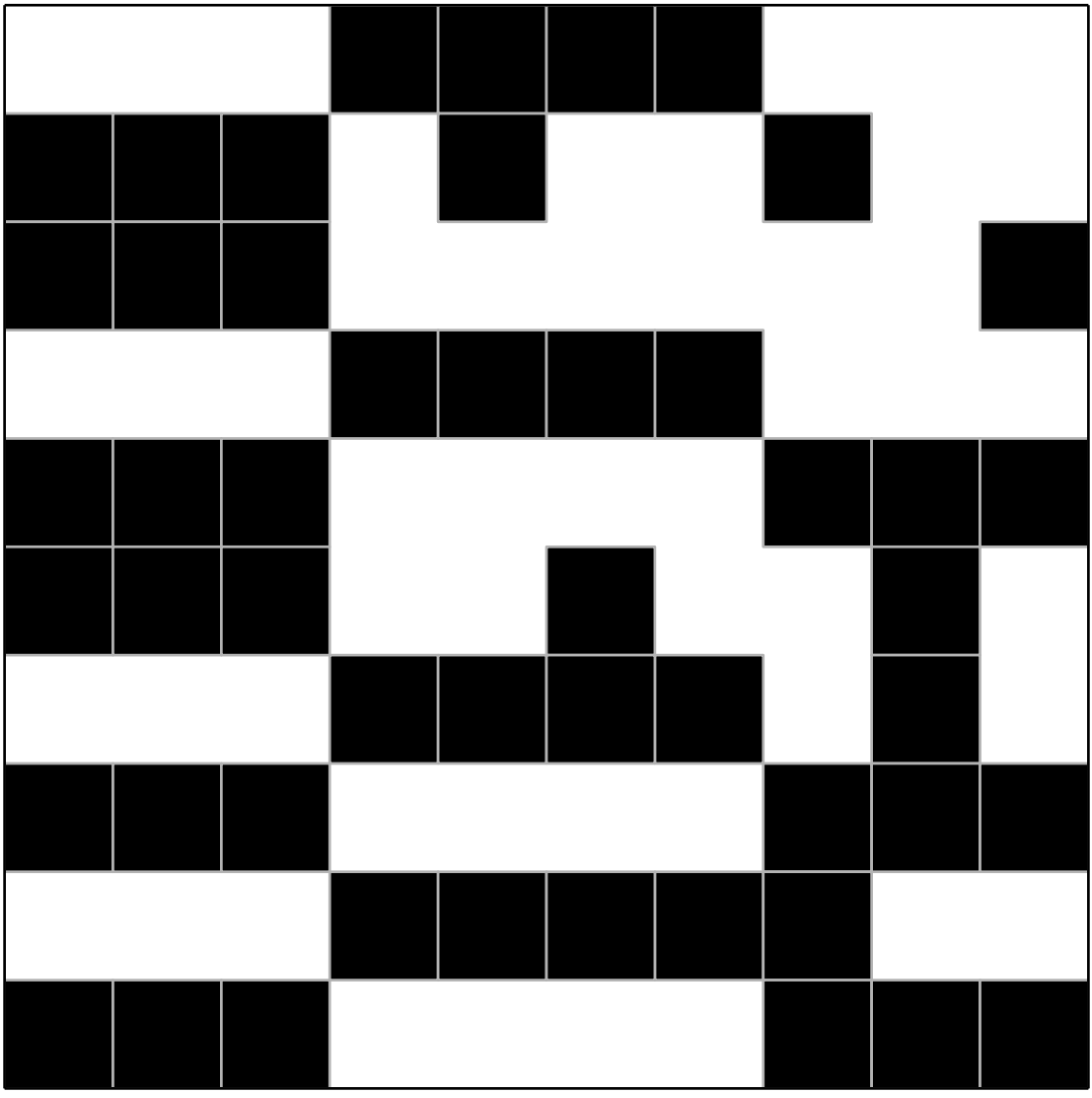
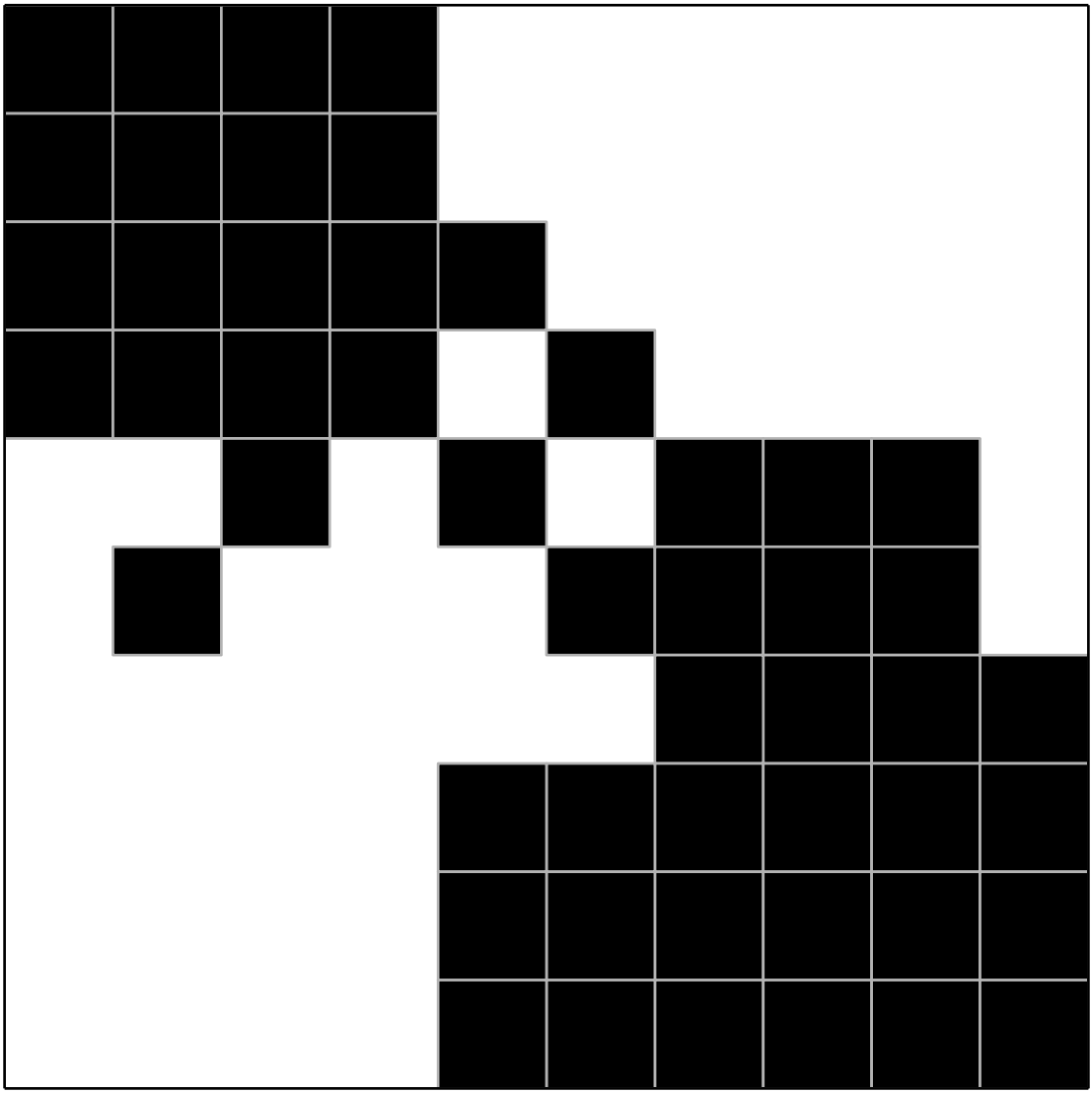


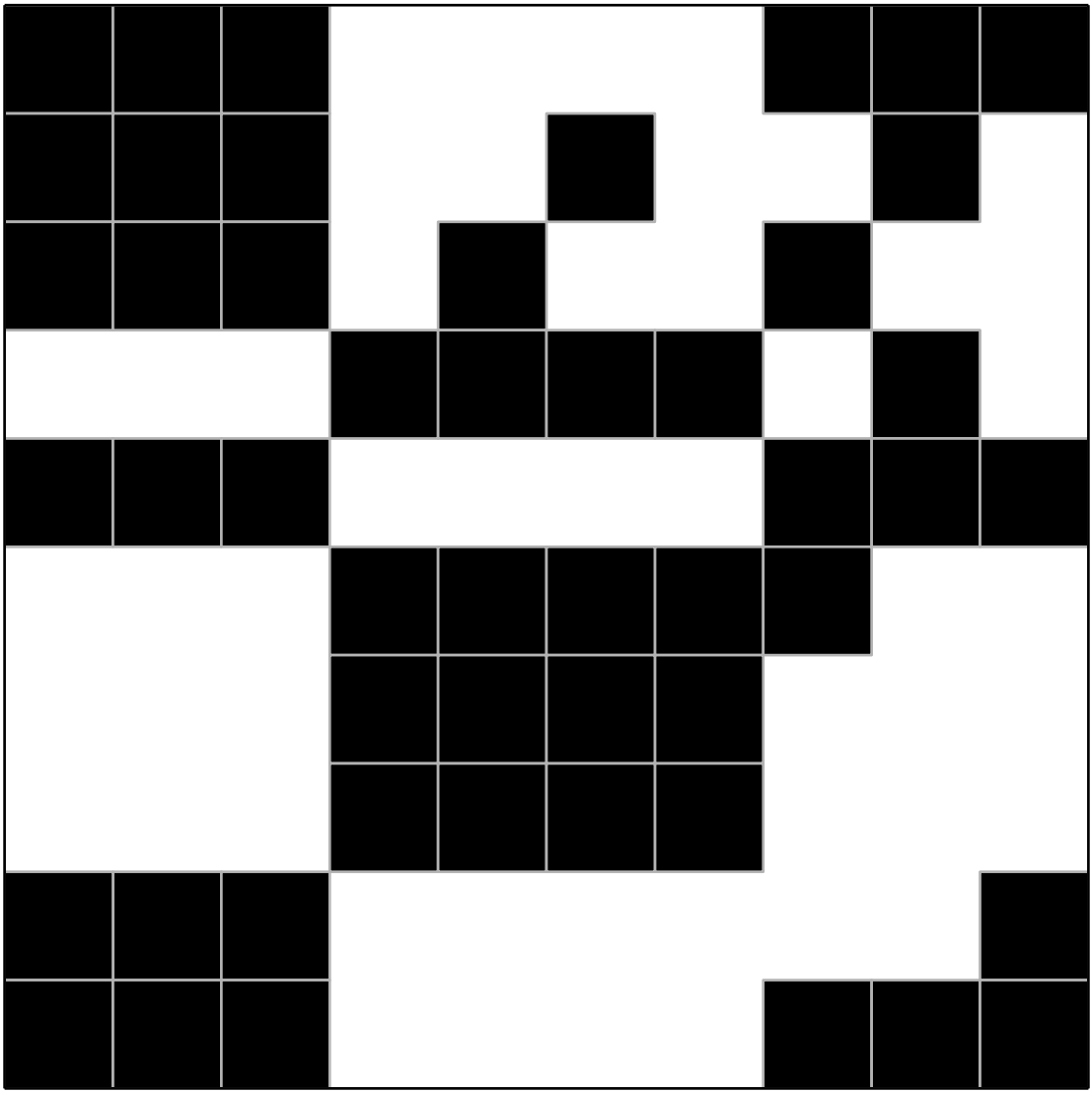
lib1_ex8_5_6-07 10x10 (50) con: 4, var: 6



lib1_ex8_5_6-07, cost: 5, diff: 5, explored: 4, time: 0.00s



lib1_ex8_5_6-08 10x10 (50) con: 4, var: 6



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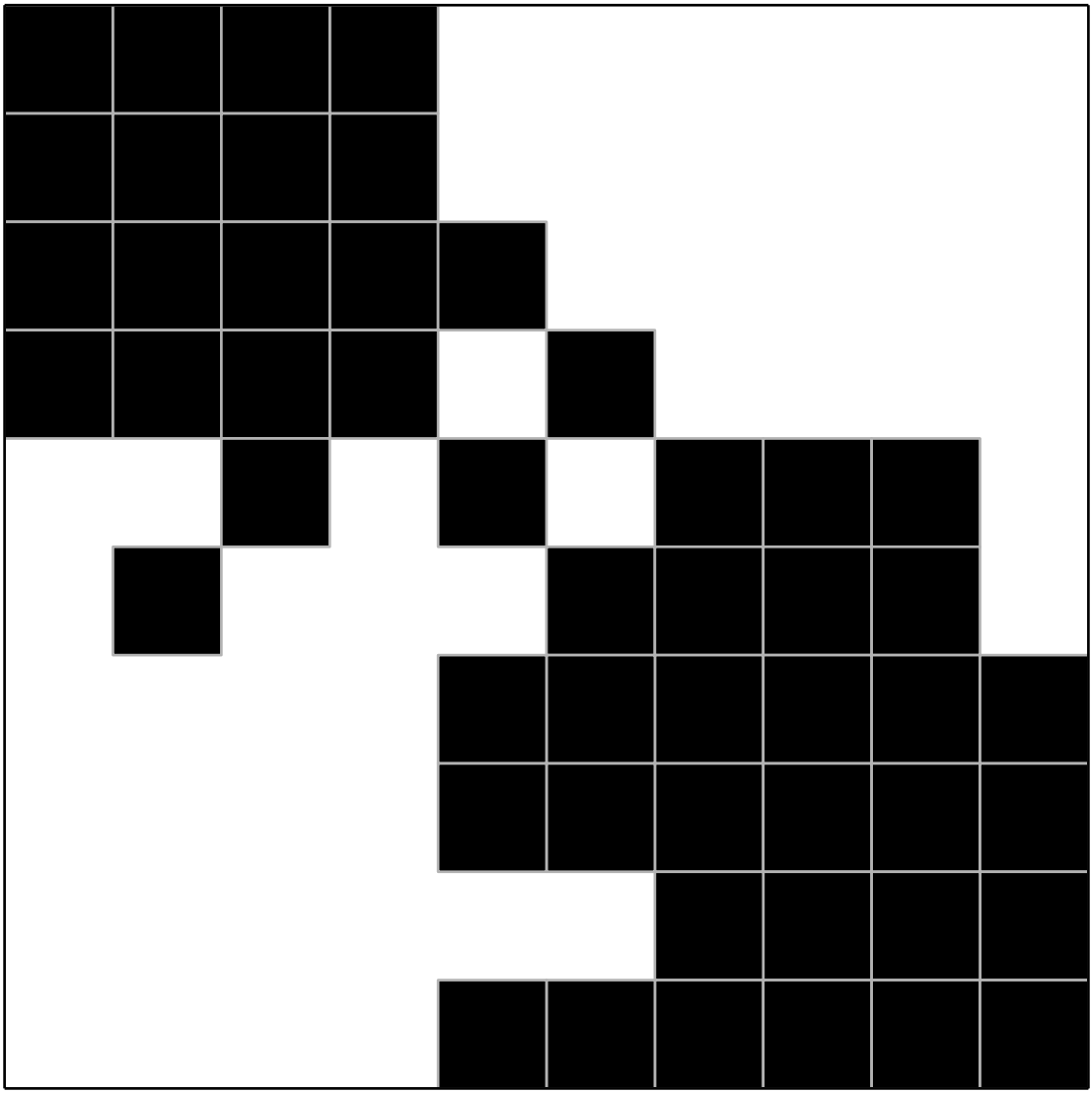
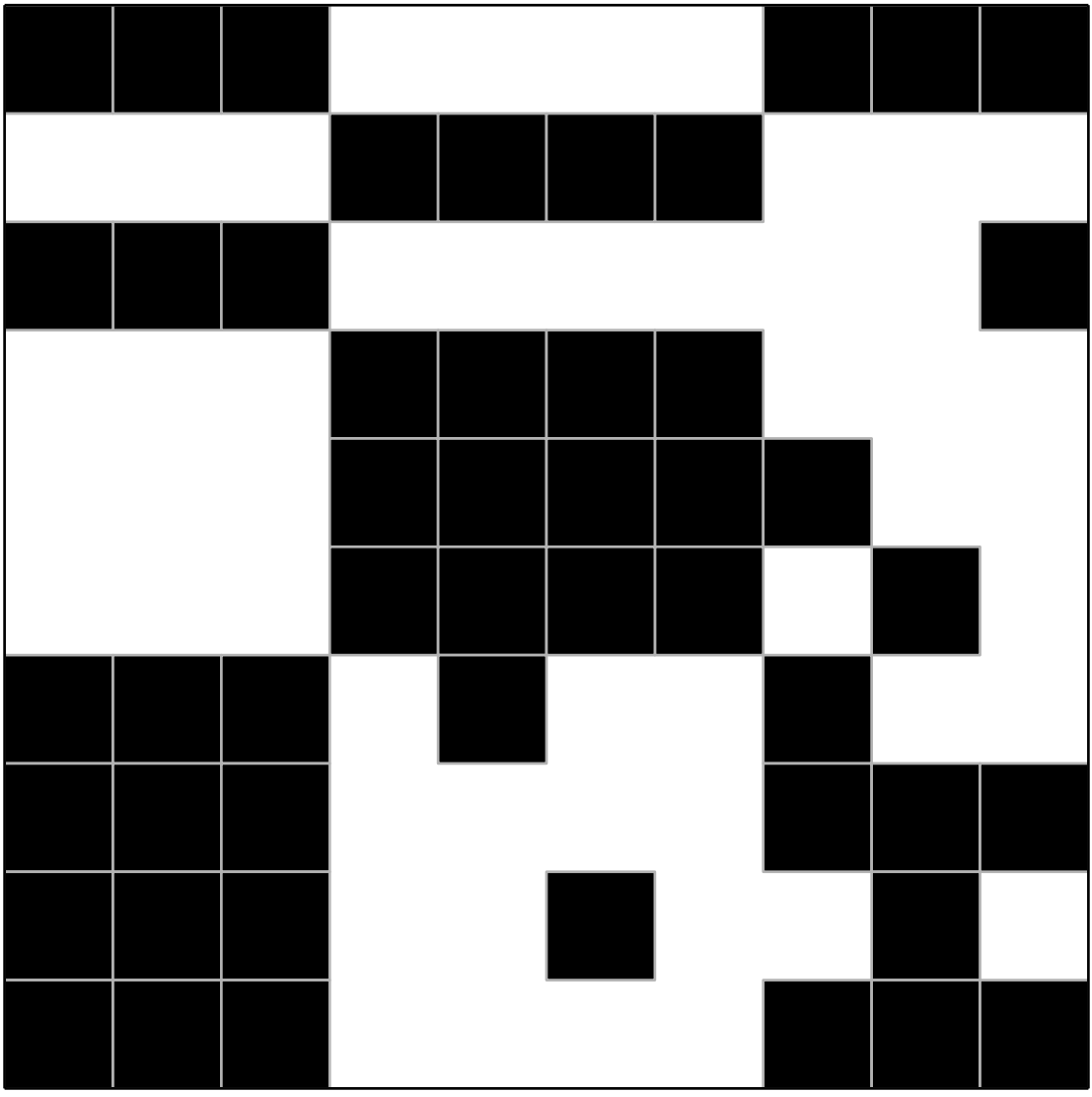


lib1_ex8_5_6-09 10x10 (50) con: 4, var: 6



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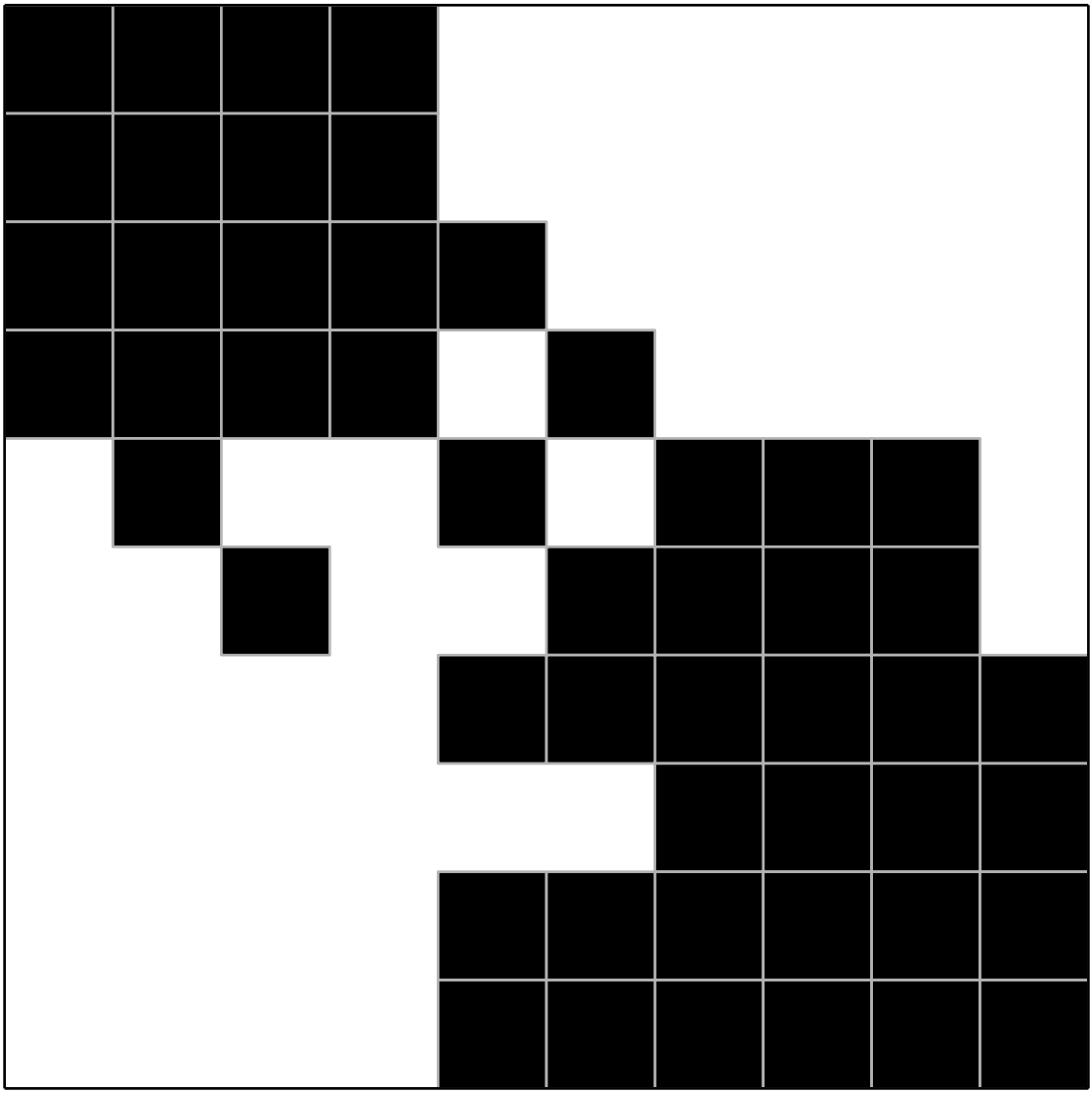
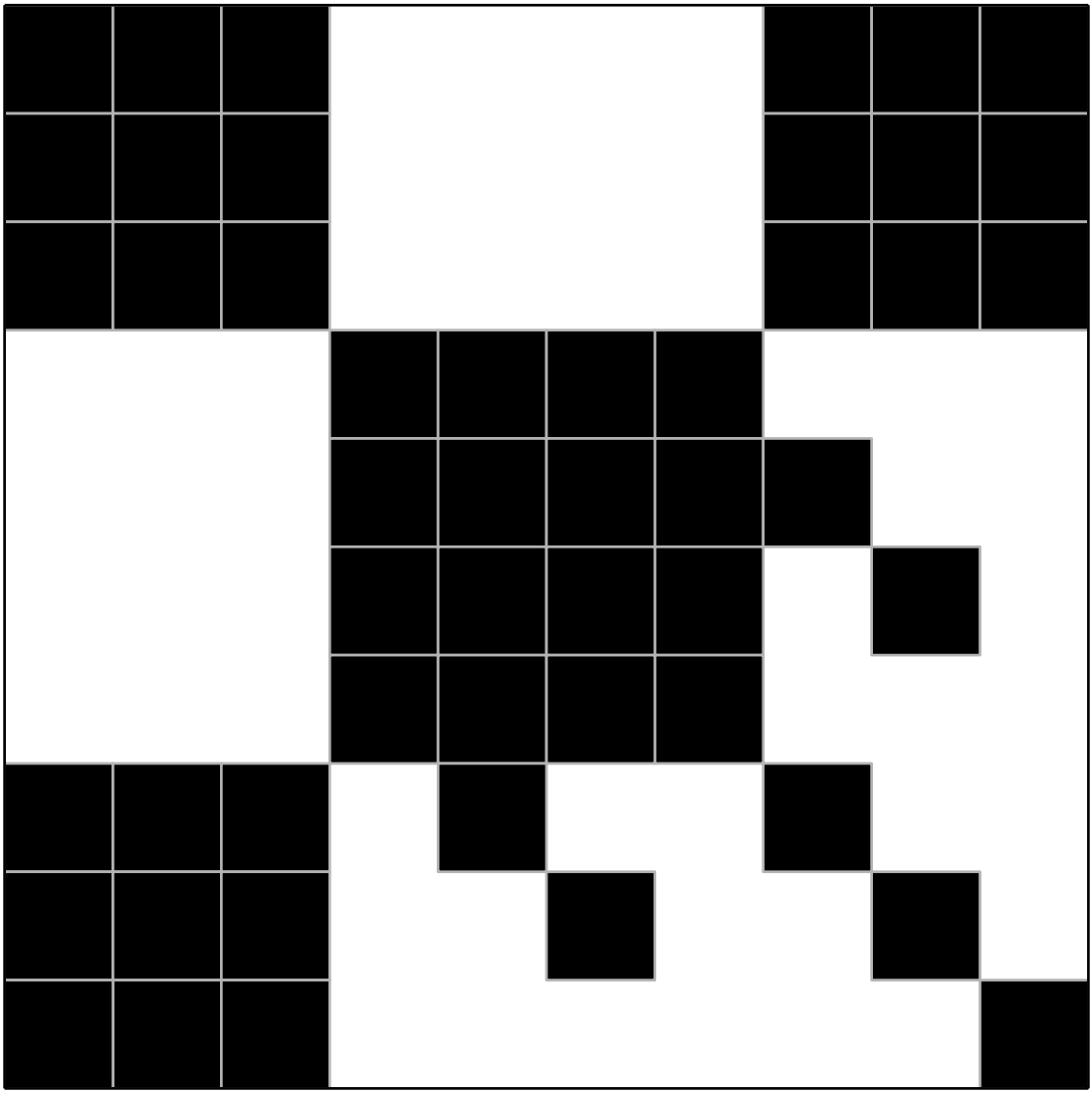
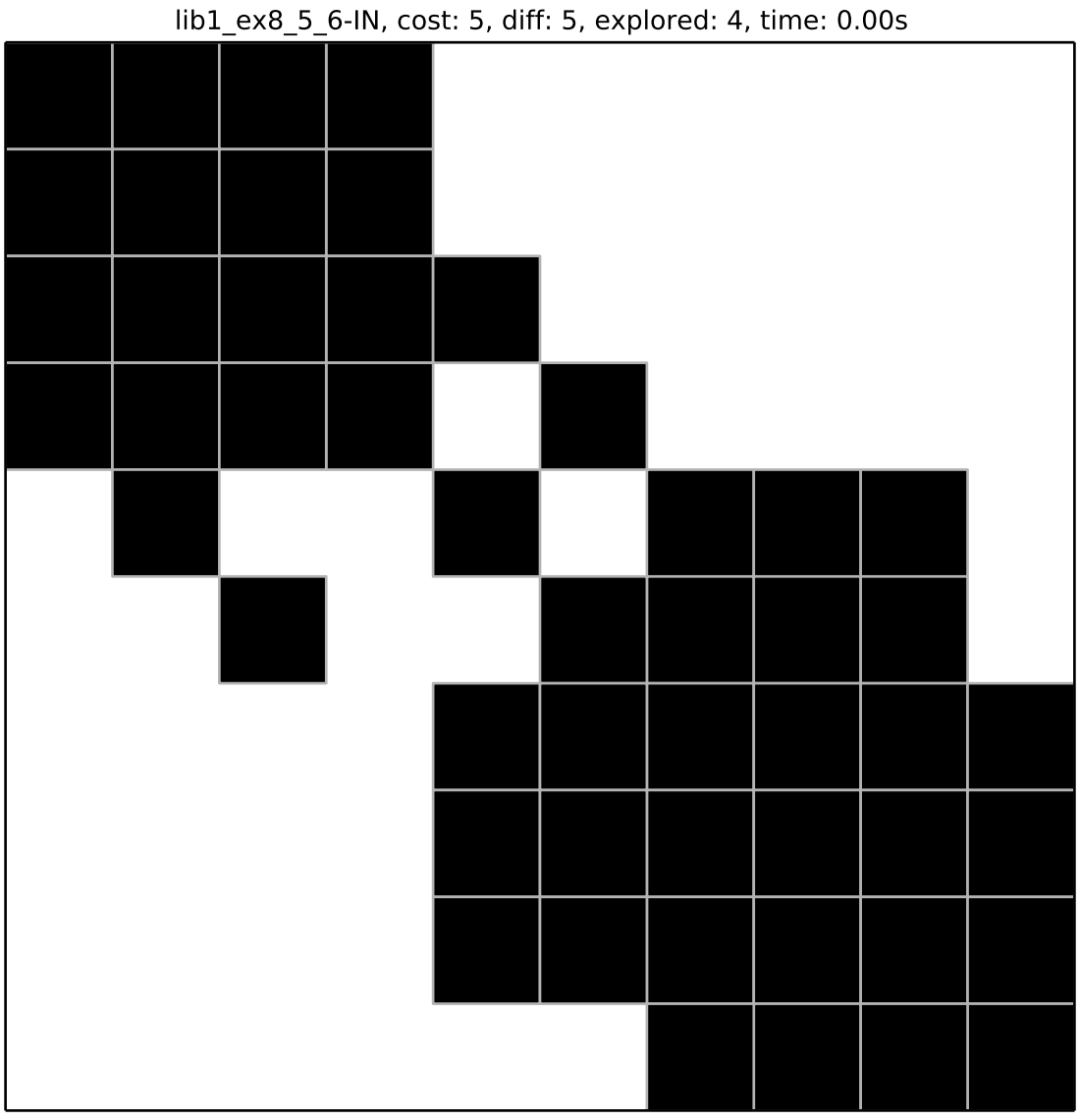
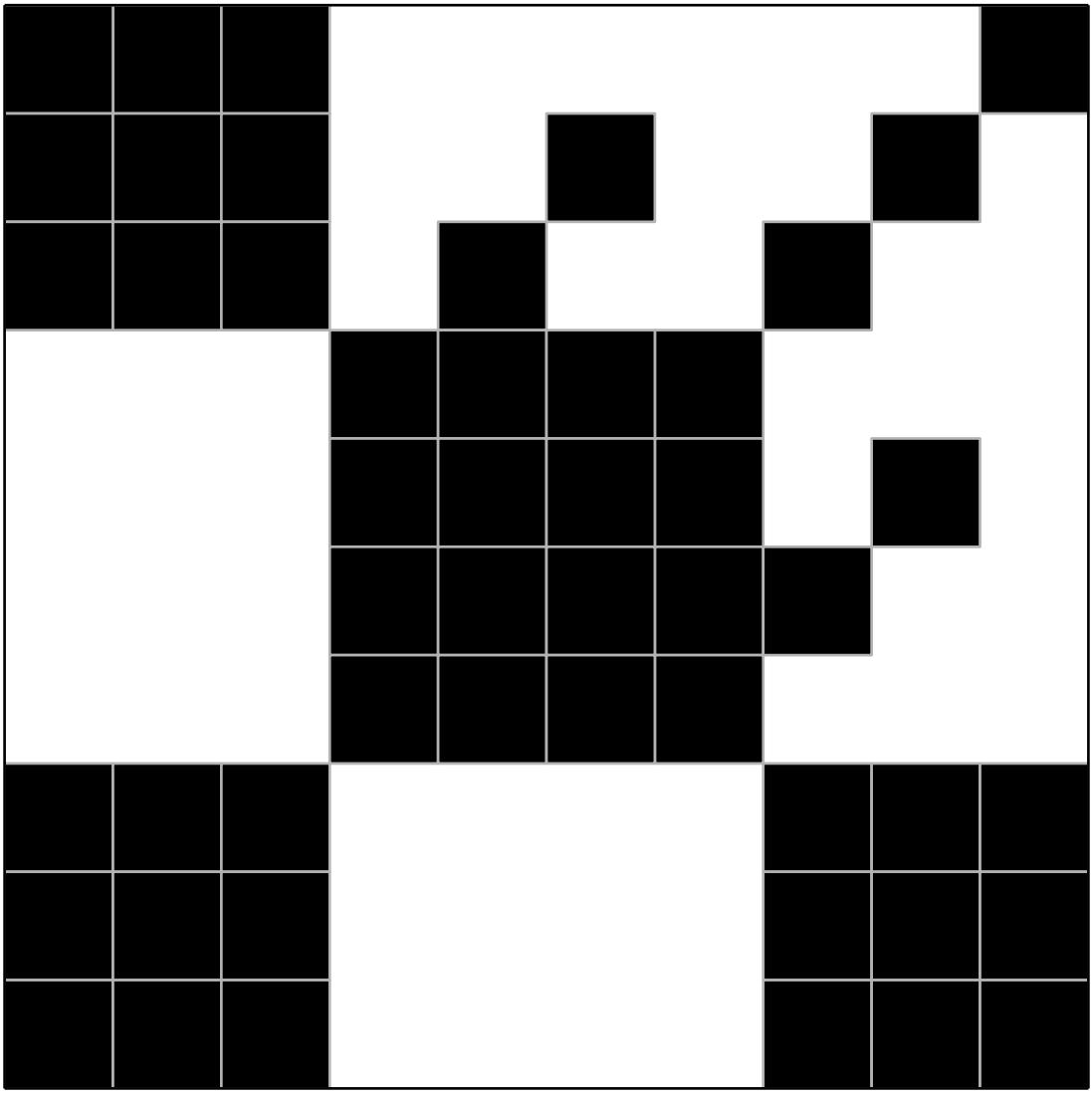


lib1_ex8_5_6-IN 10x10 (50) con: 4, var: 6




lib1_ex8_5_6-IN, cost: 5, diff: 5, explored: 4, time: 0.00s

lib1_ex8_5_6-RE 10x10 (50) con: 4, var: 6



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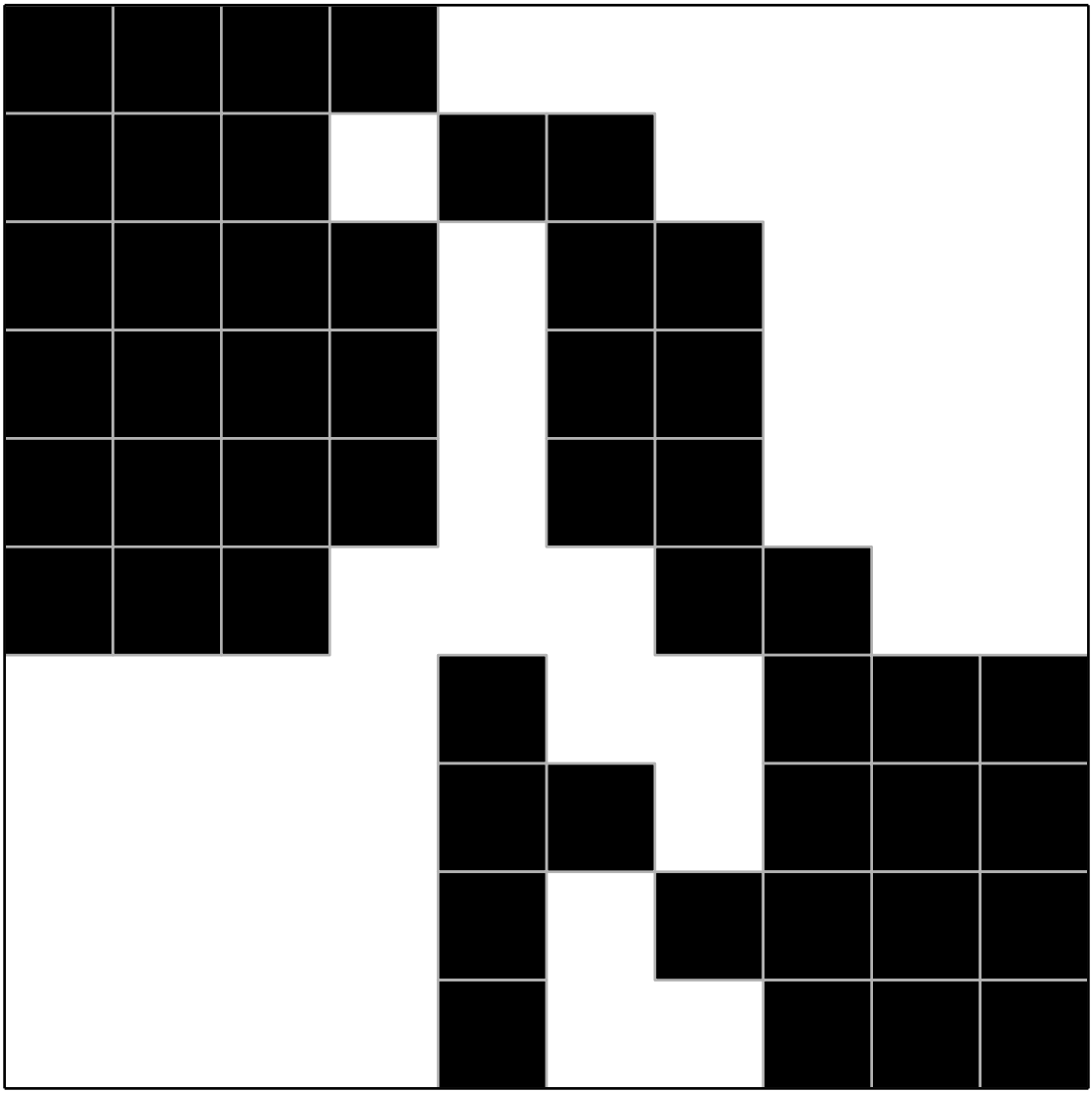
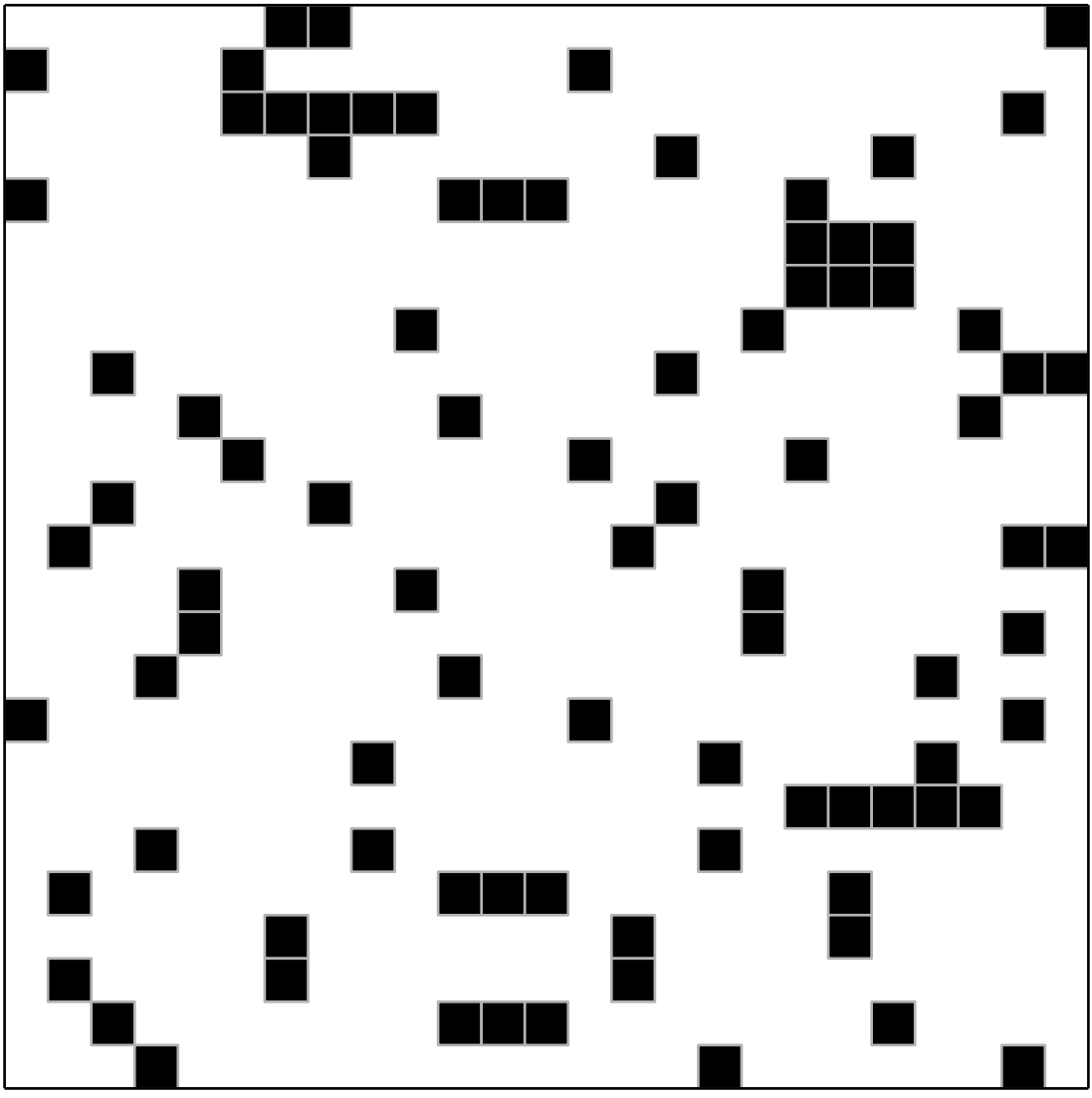
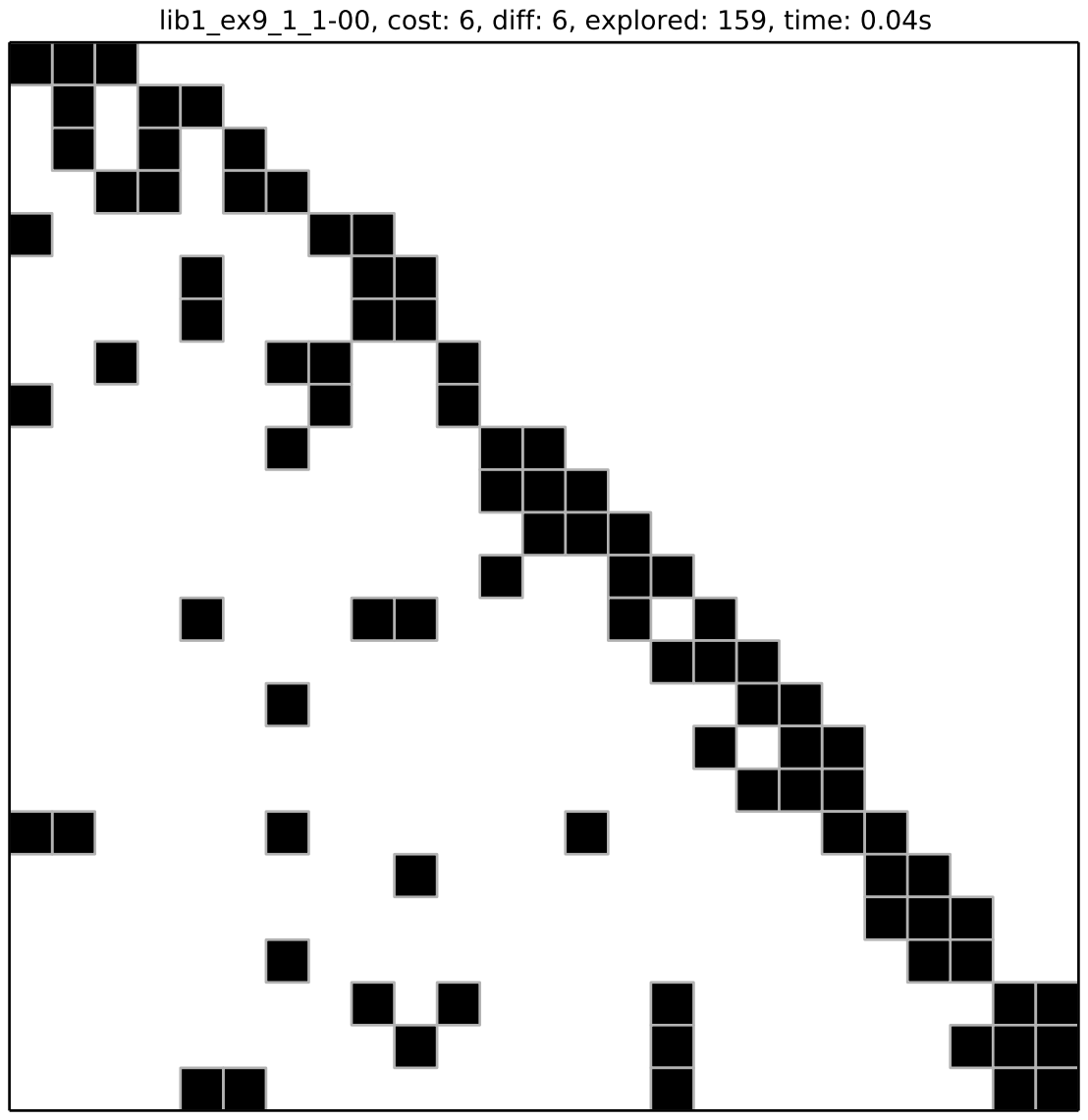
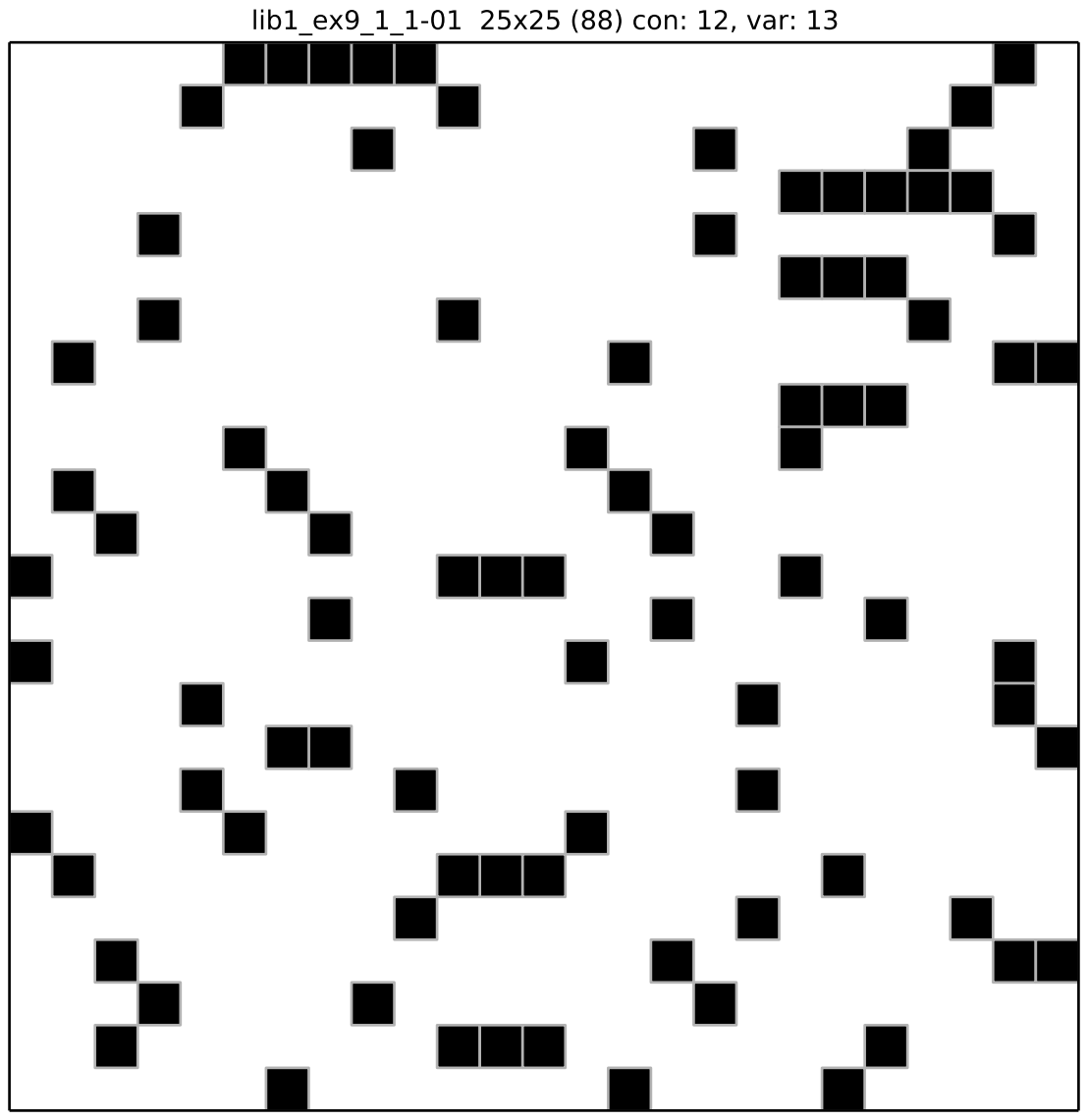
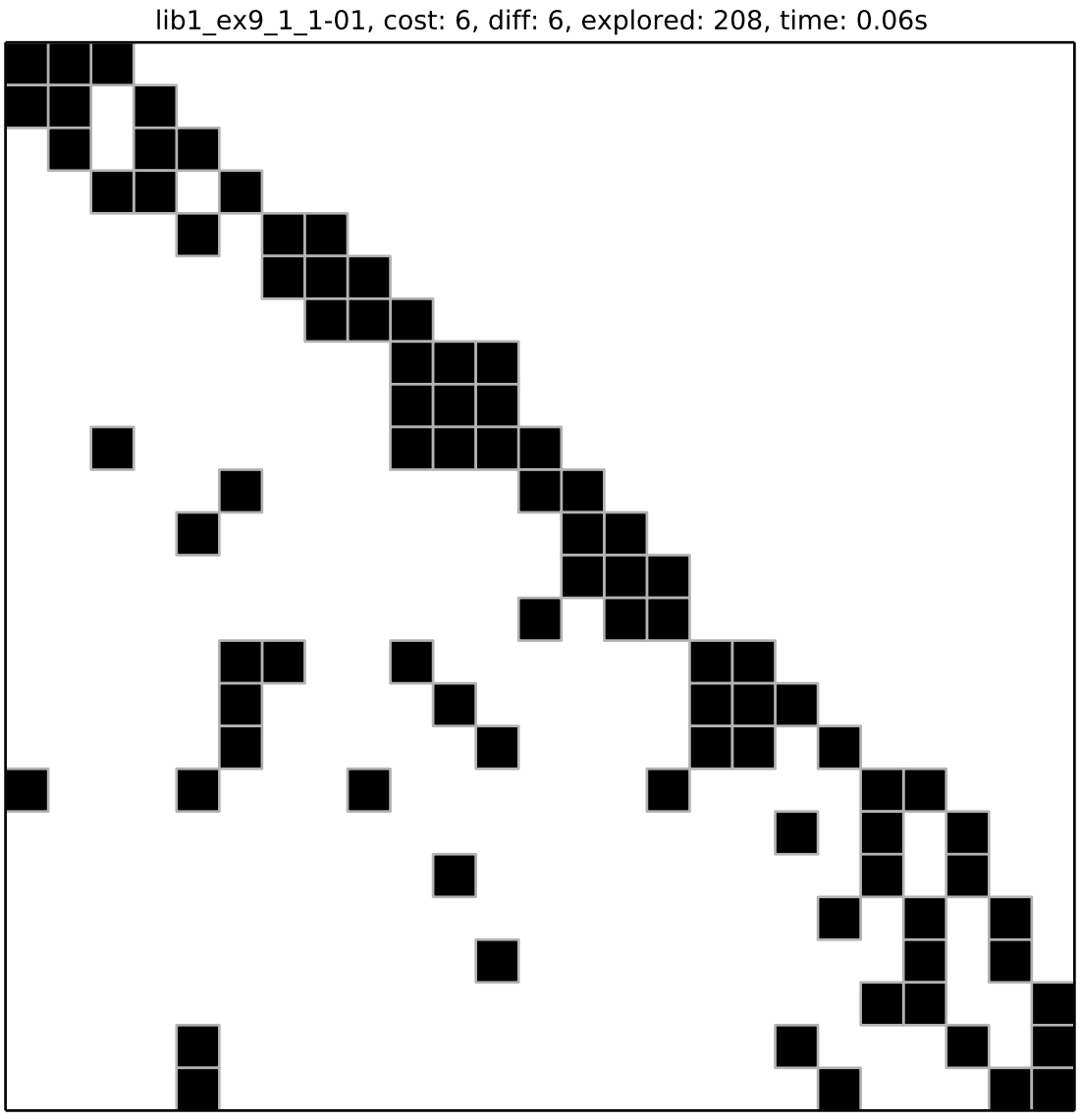


lib1_ex9_1_1-00 25x25 (88) con: 12, var: 13

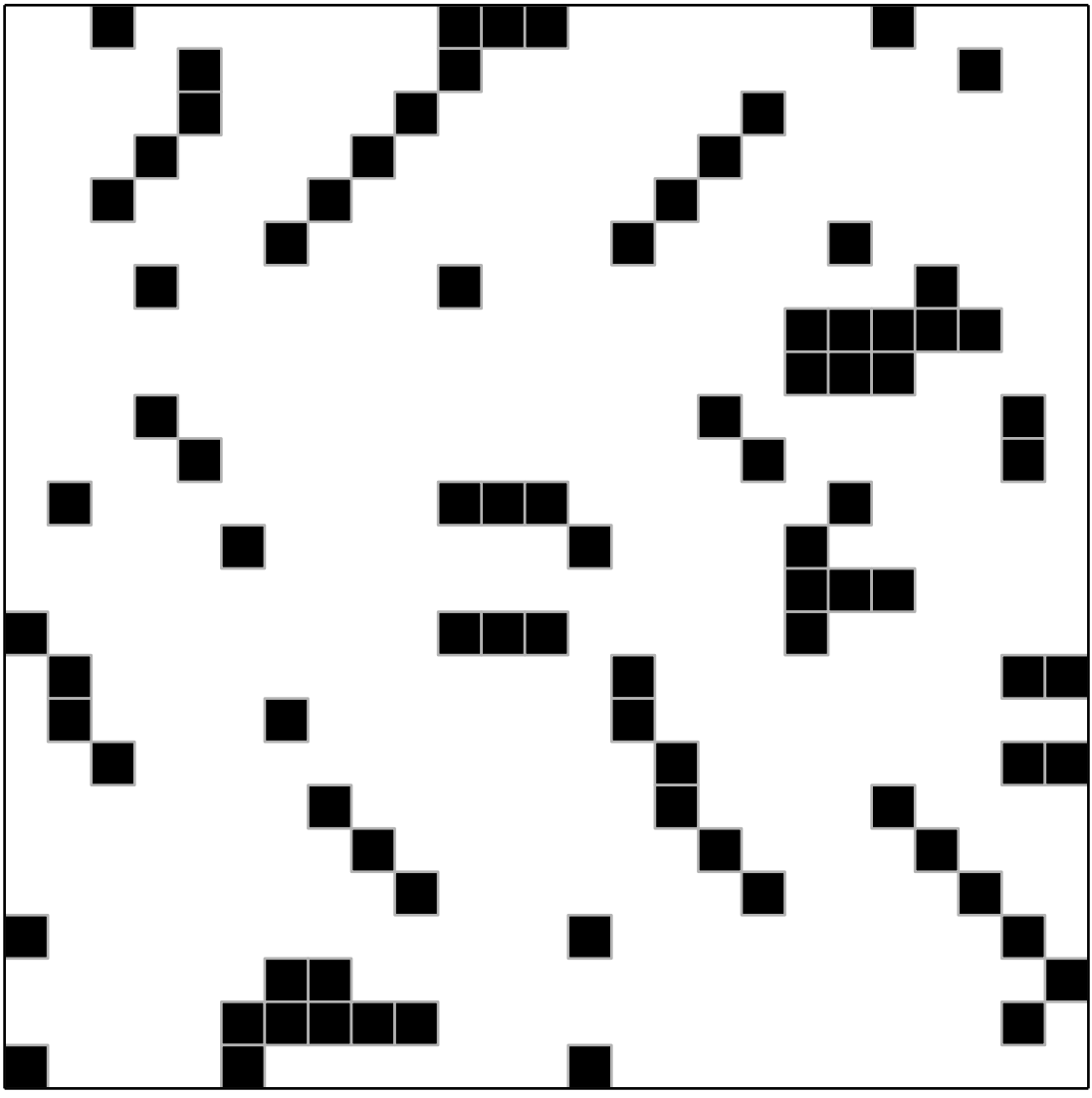



lib1_ex9_1_1-00, cost: 6, diff: 6, explored: 159, time: 0.04s

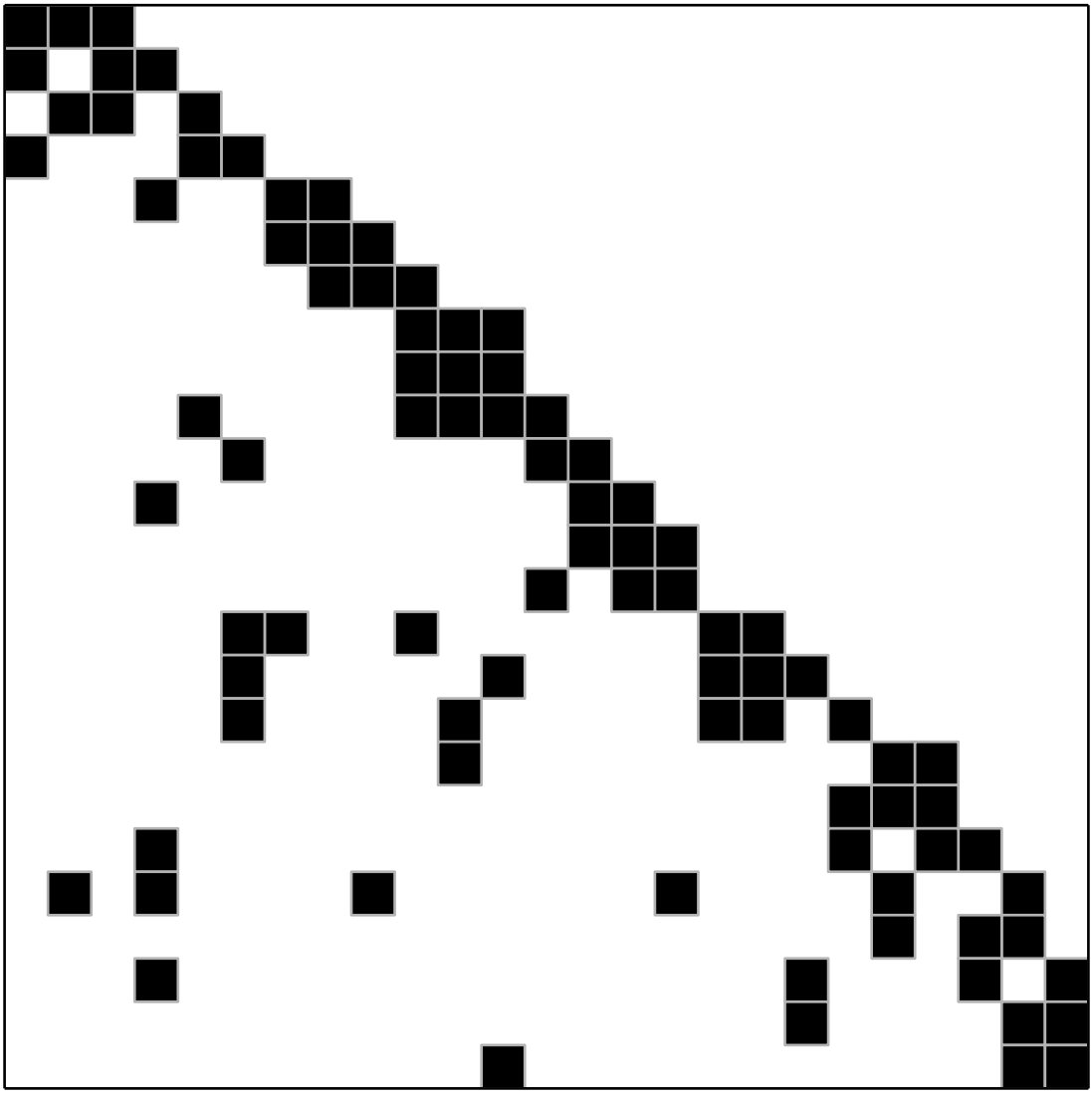

lib1_ex9_1_1-01 25x25 (88) con: 12, var: 13


lib1_ex9_1_1-01, cost: 6, diff: 6, explored: 208, time: 0.06s

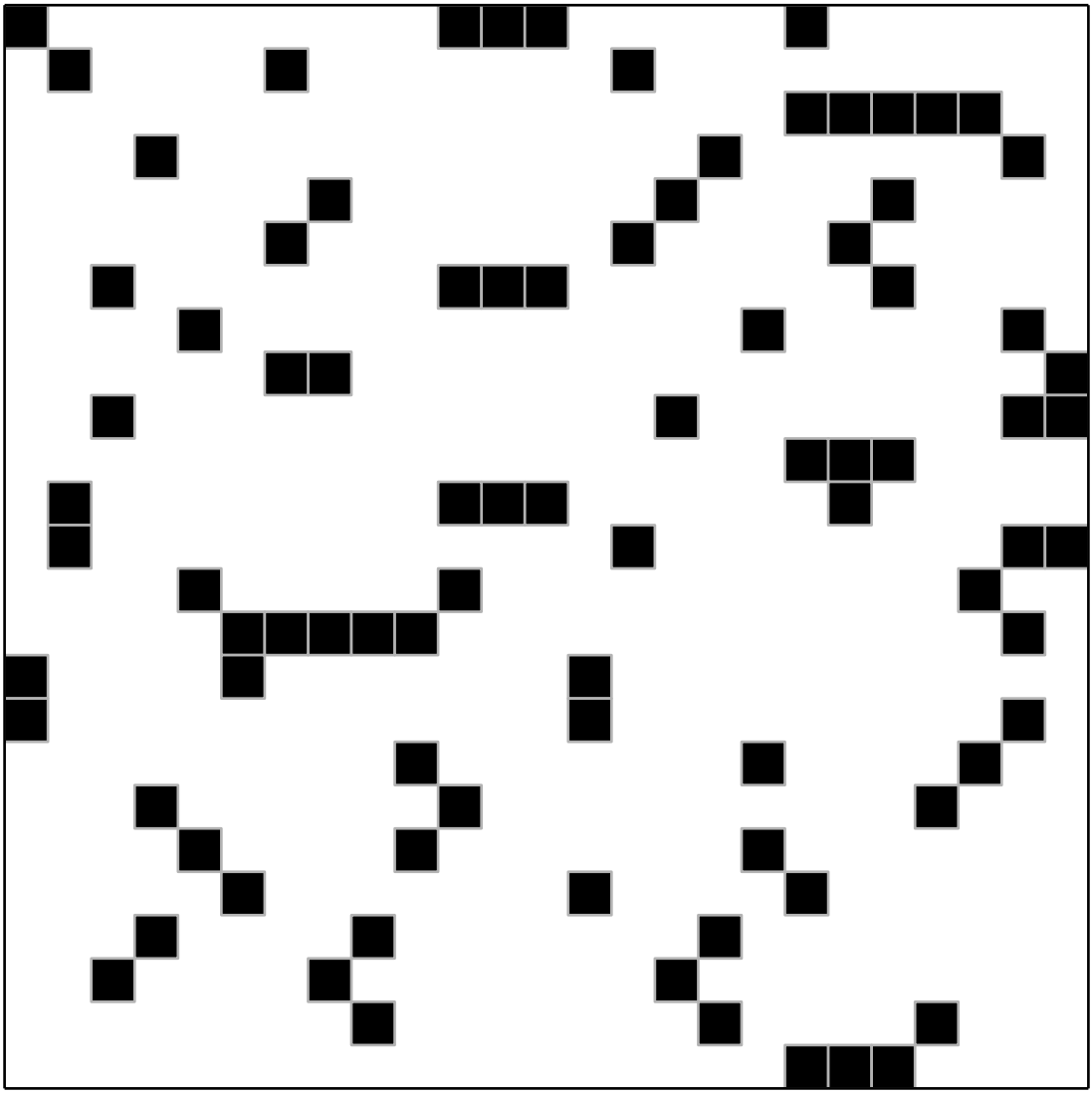
lib1_ex9_1_1-02 25x25 (88) con: 12, var: 13

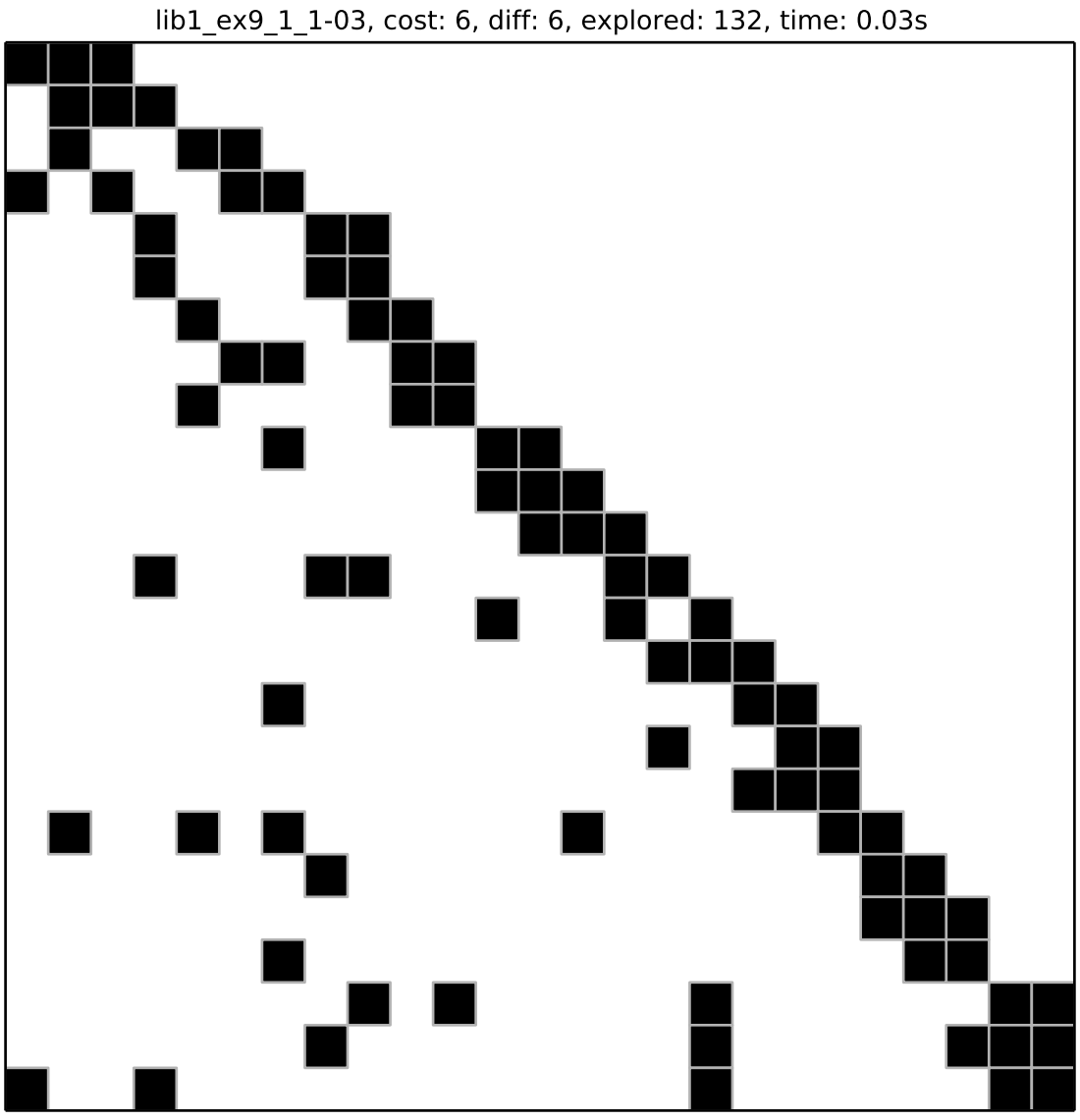


lib1_ex9_1_1-02, cost: 6, diff: 6, explored: 203, time: 0.05s

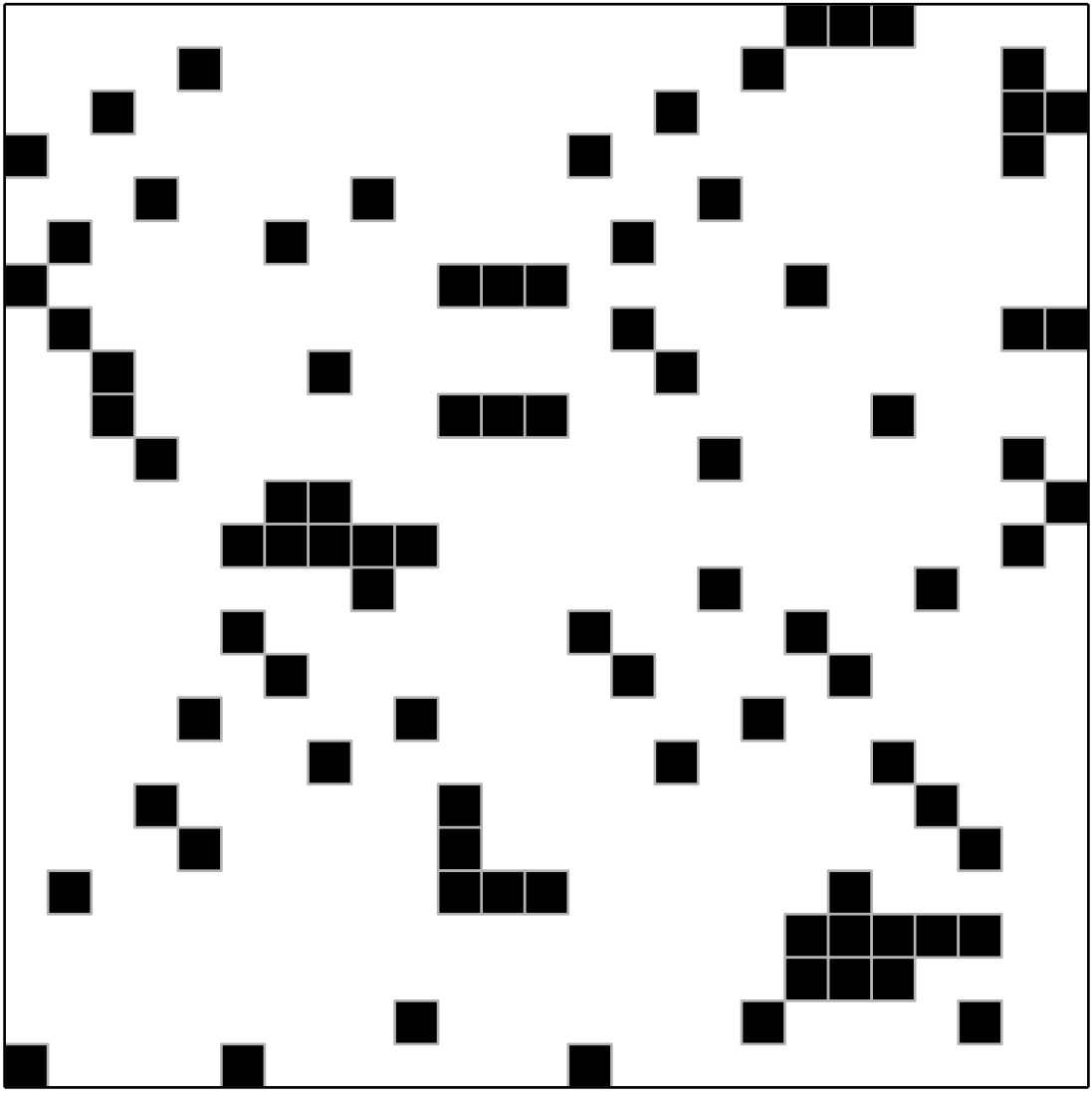


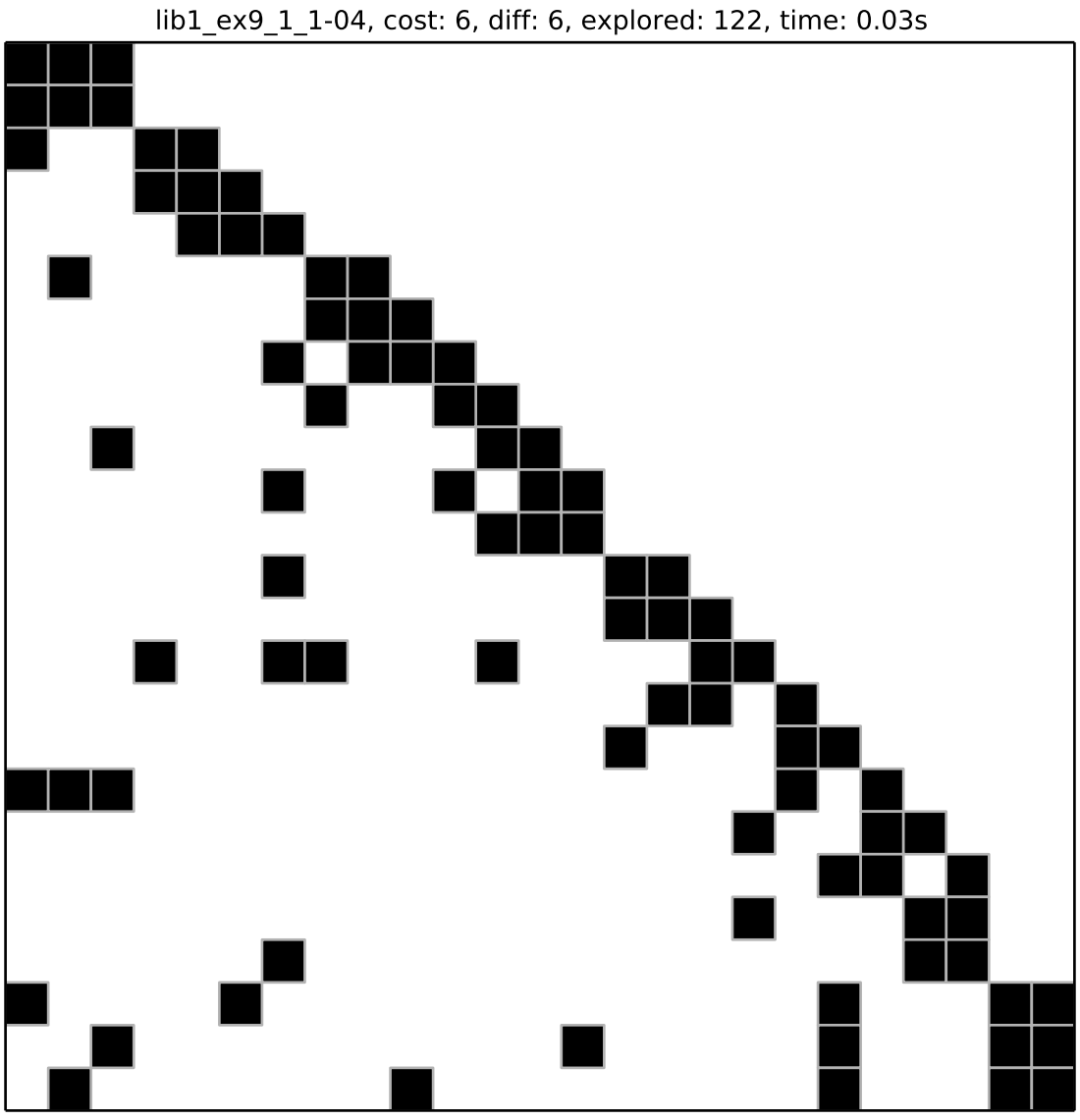
lib1_ex9_1_1-03 25x25 (88) con: 12, var: 13




lib1_ex9_1_1-03, cost: 6, diff: 6, explored: 132, time: 0.03s

lib1_ex9_1_1-04 25x25 (88) con: 12, var: 13

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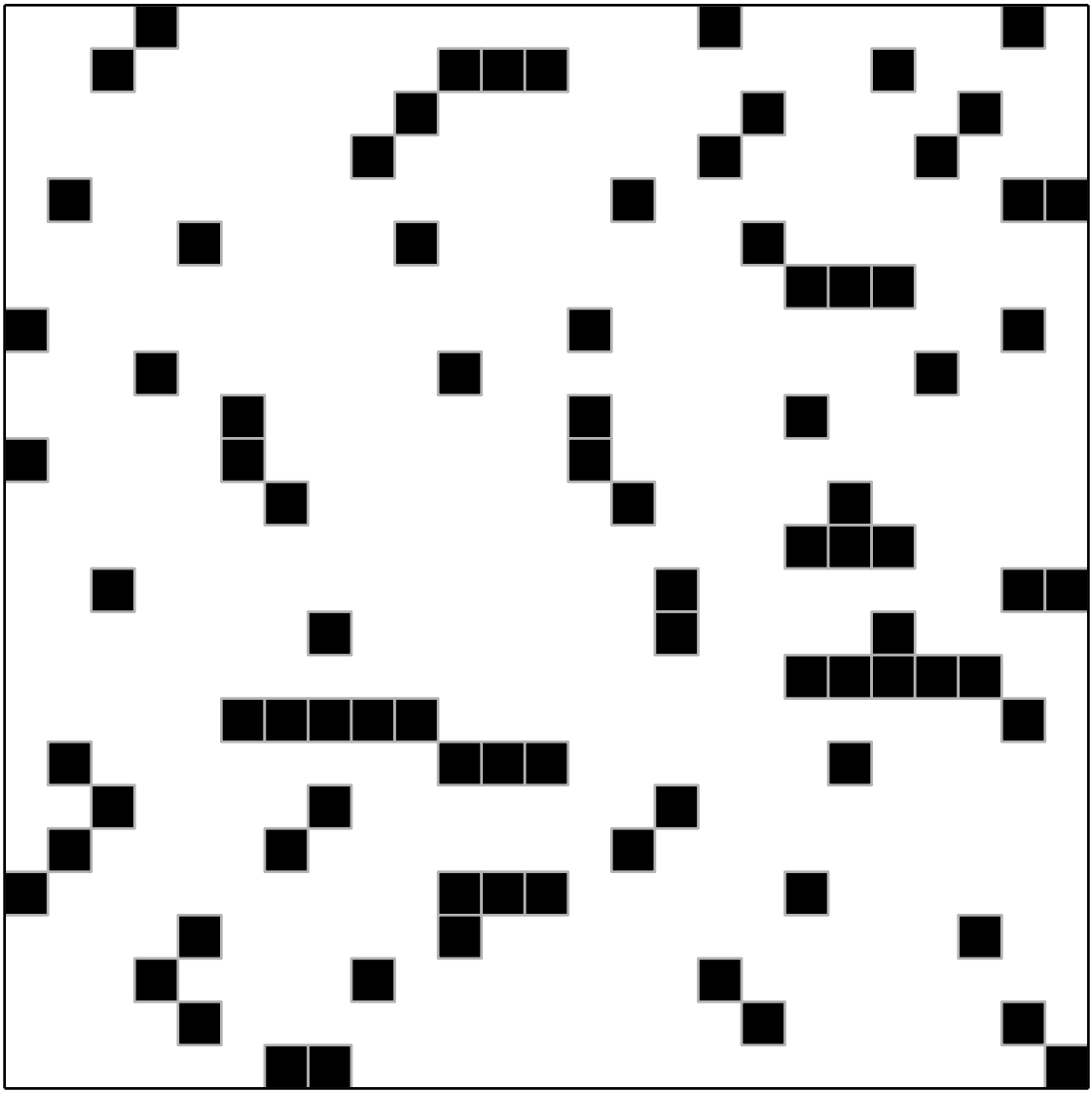
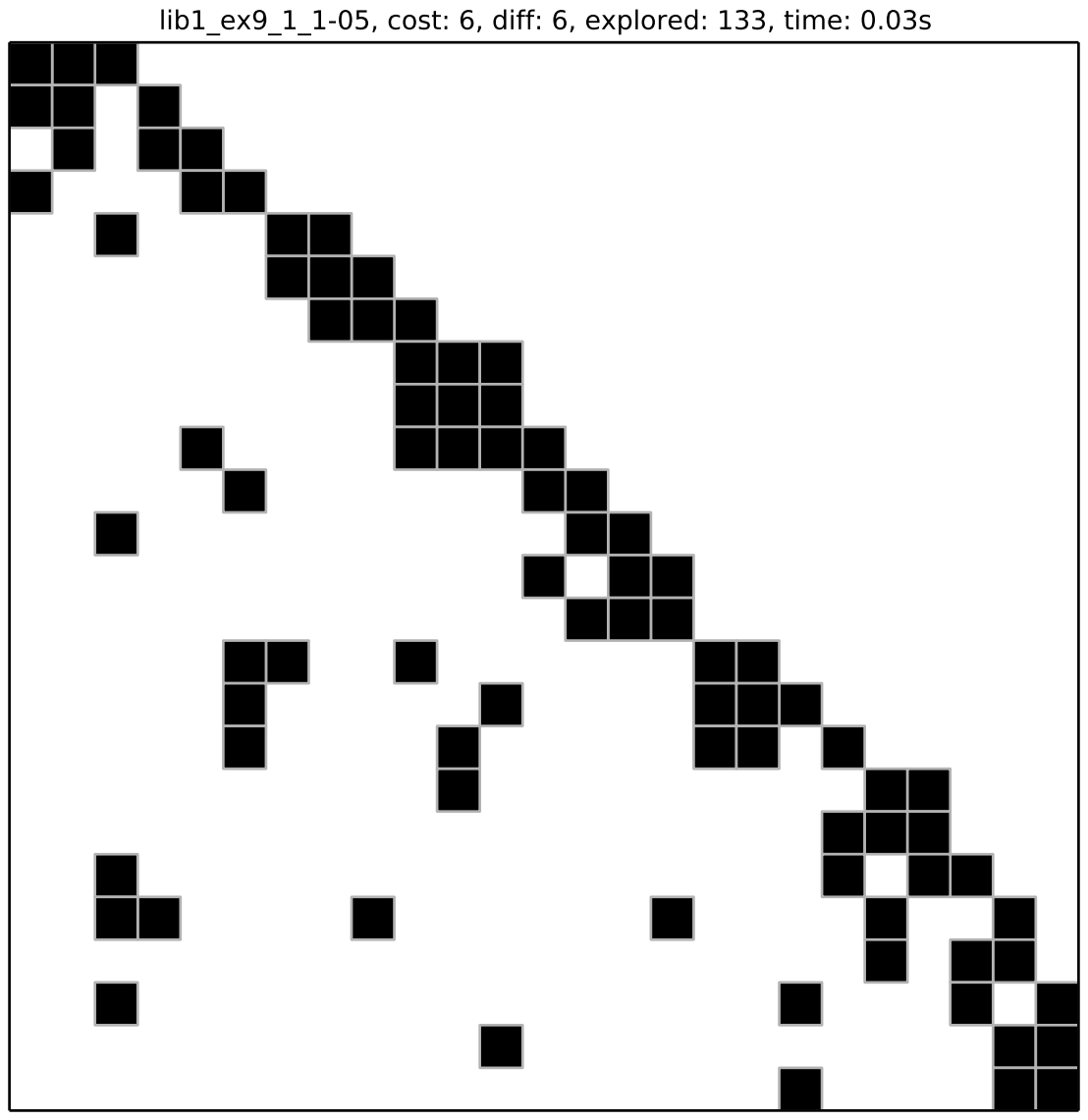
lib1_ex9_1_1-05 25x25 (88) con: 12, var: 13

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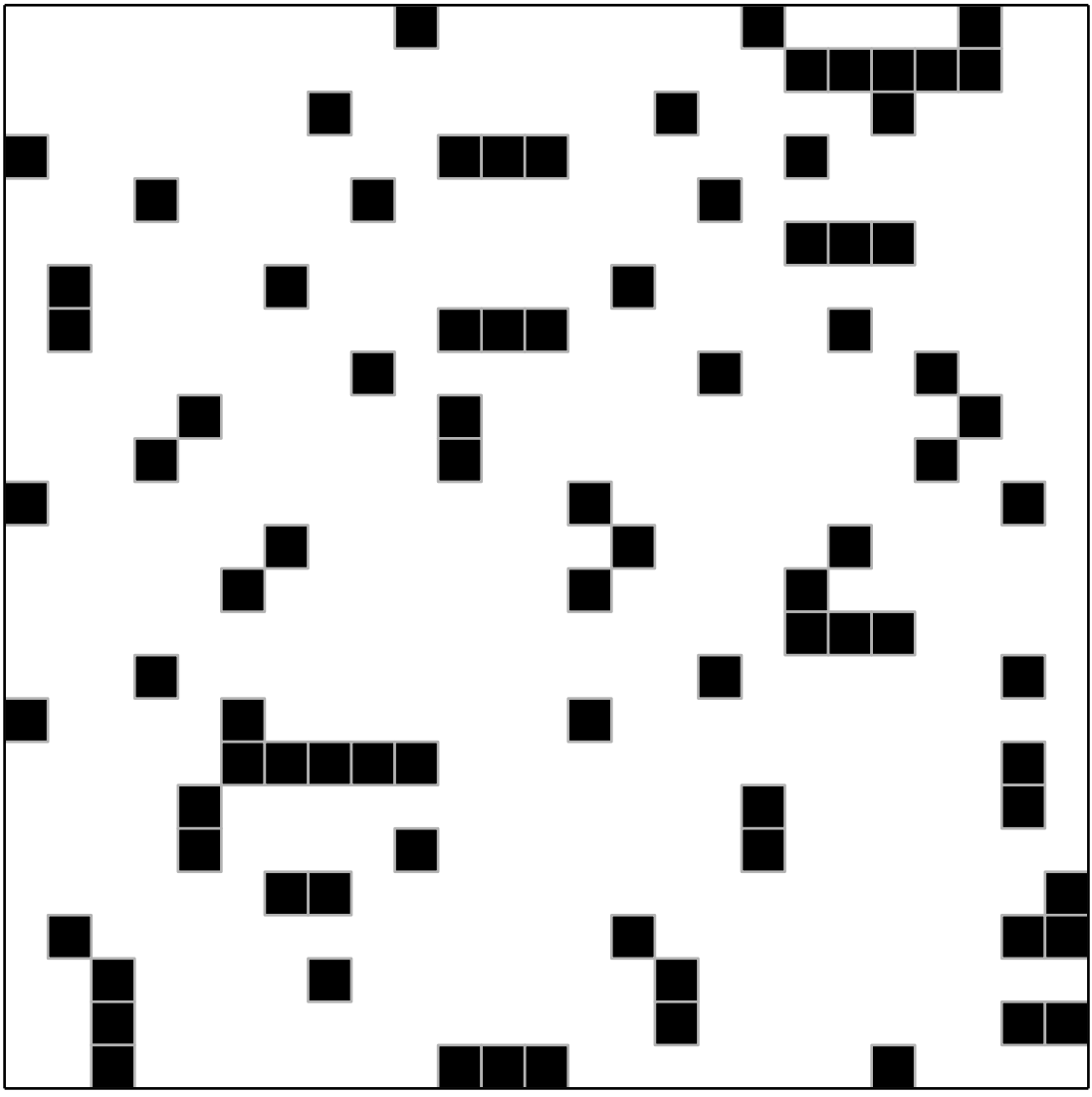
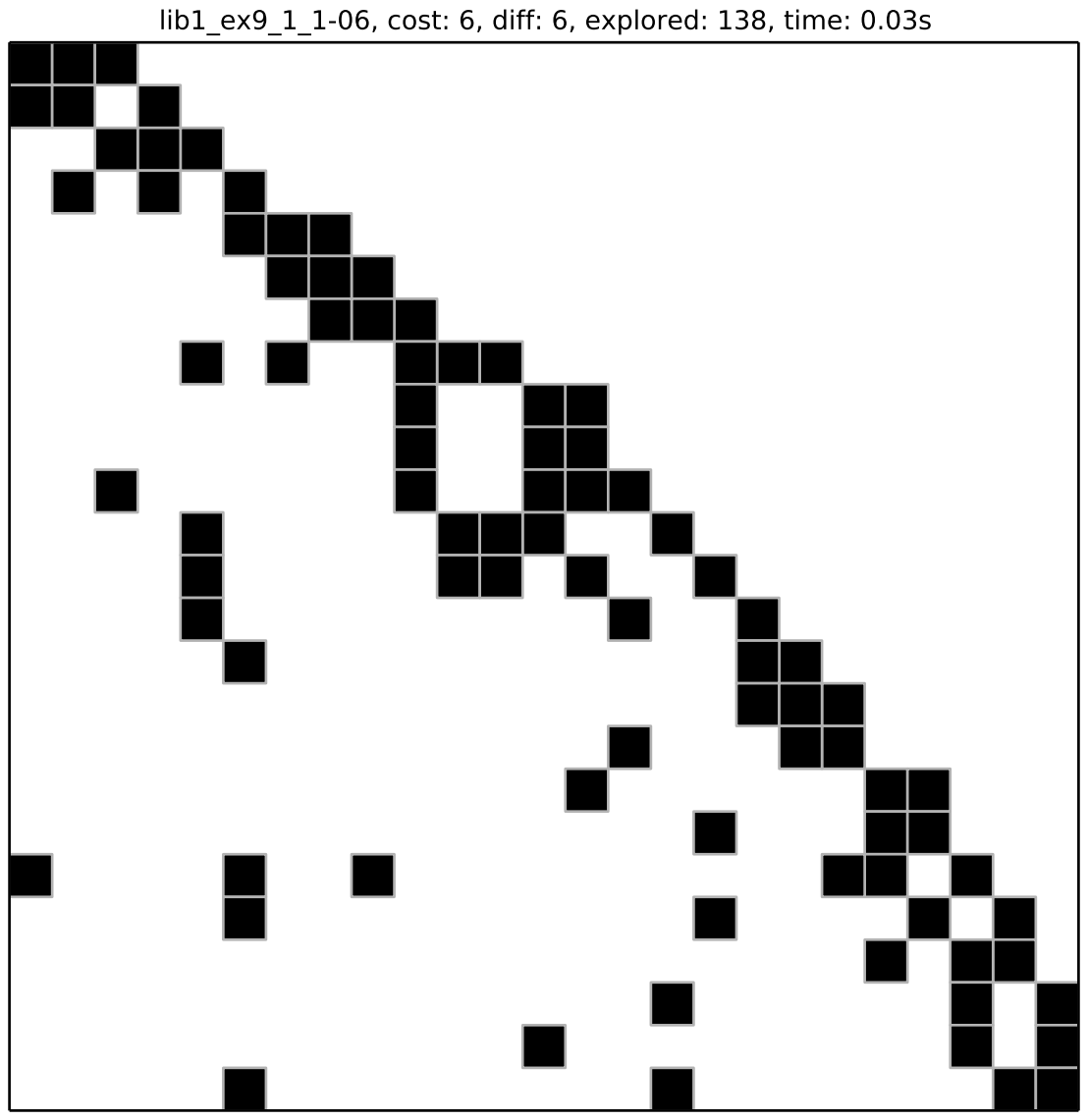
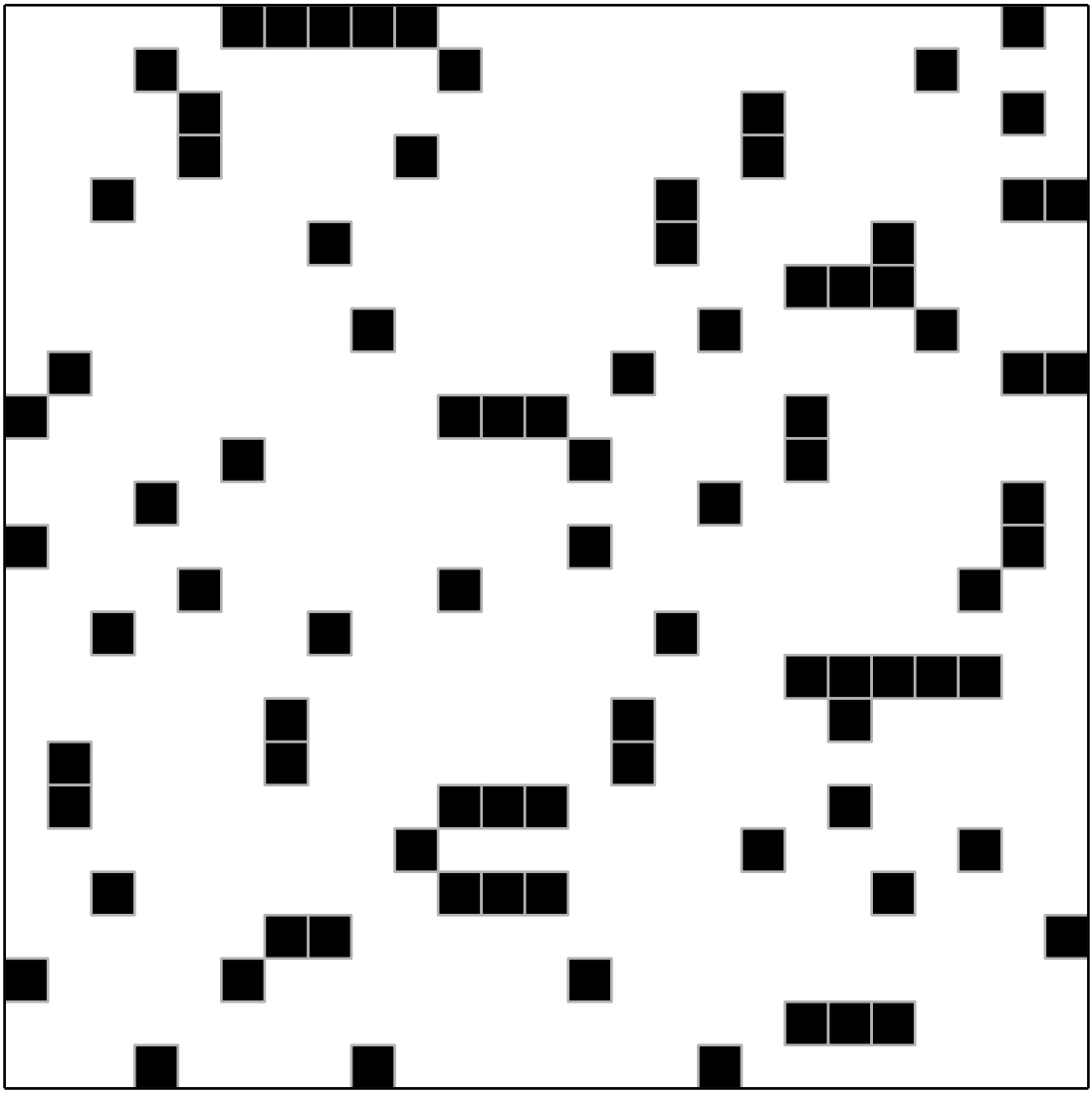
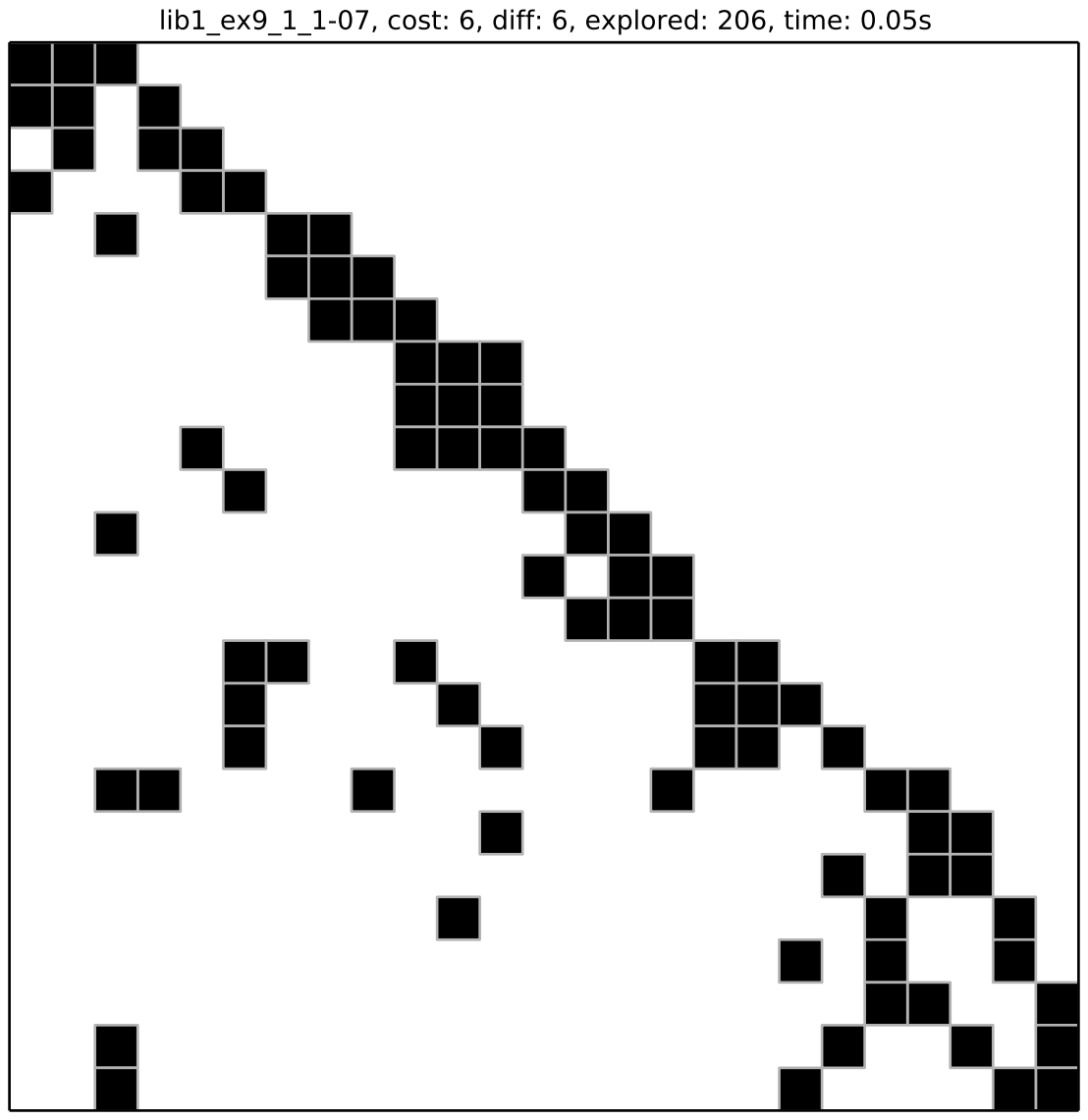
lib1_ex9_1_1-06 25x25 (88) con: 12, var: 13



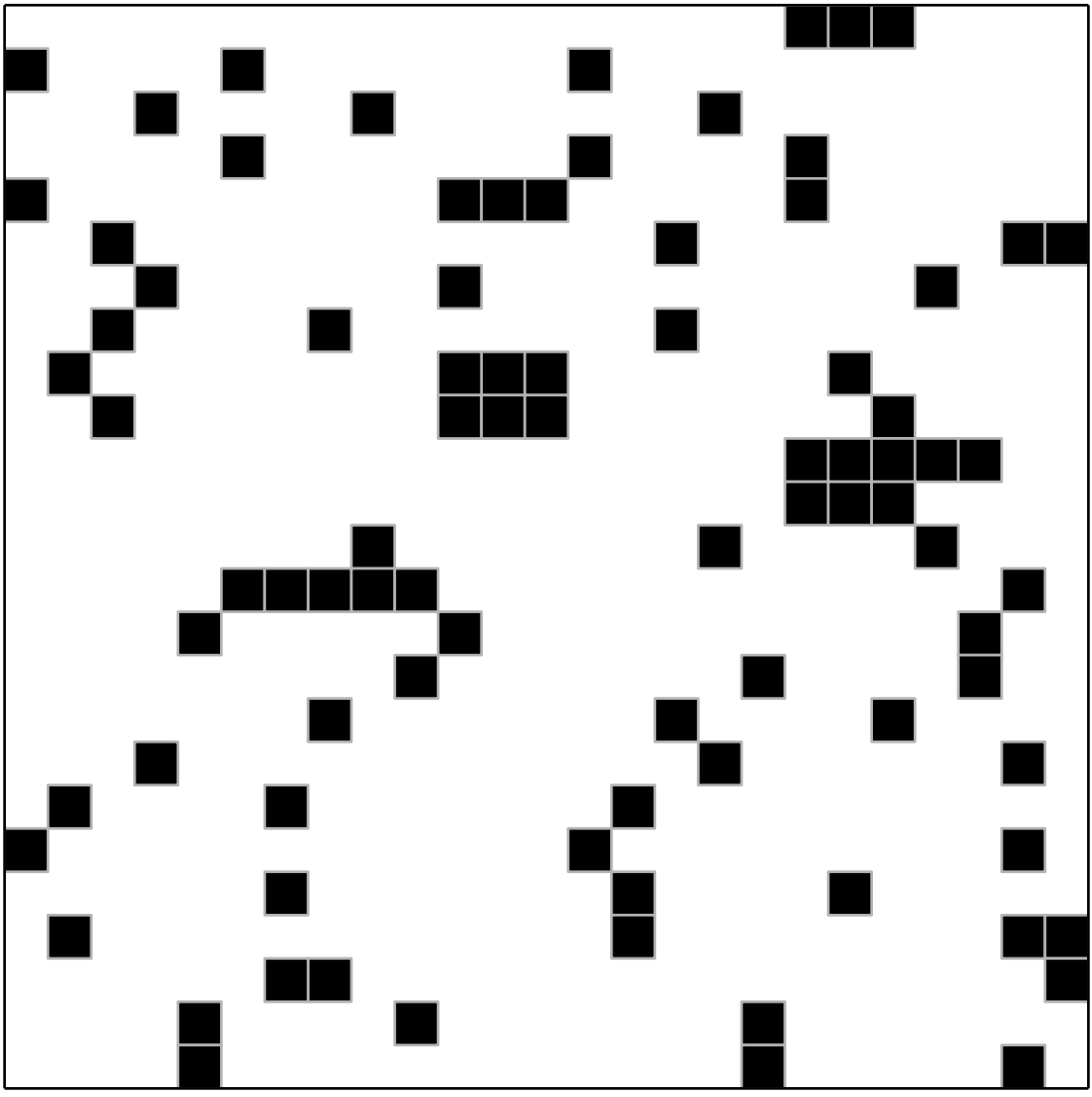

lib1_ex9_1_1-06, cost: 6, diff: 6, explored: 138, time: 0.03s

lib1_ex9_1_1-07 25x25 (88) con: 12, var: 13

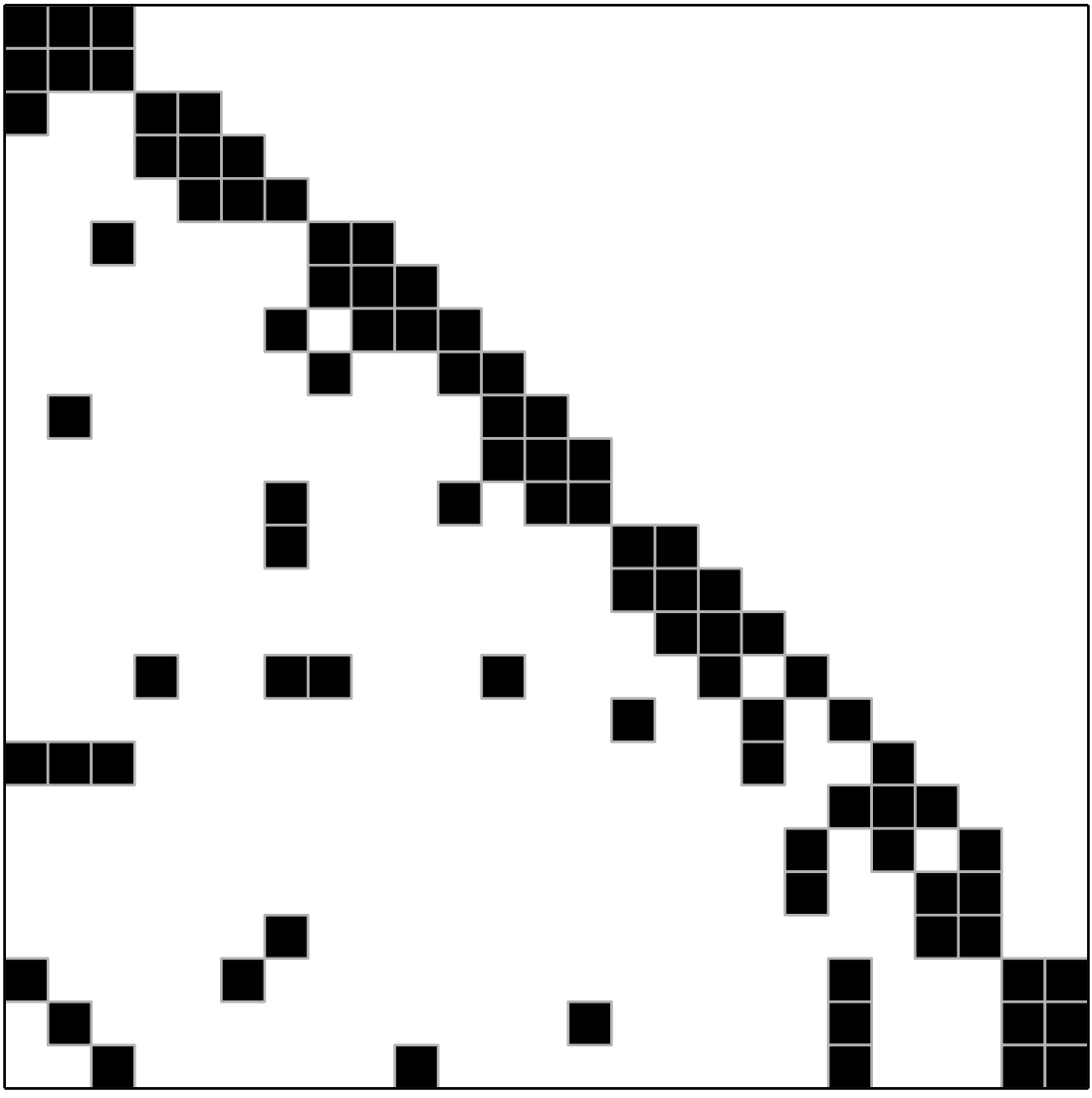



lib1_ex9_1_1-07, cost: 6, diff: 6, explored: 206, time: 0.05s

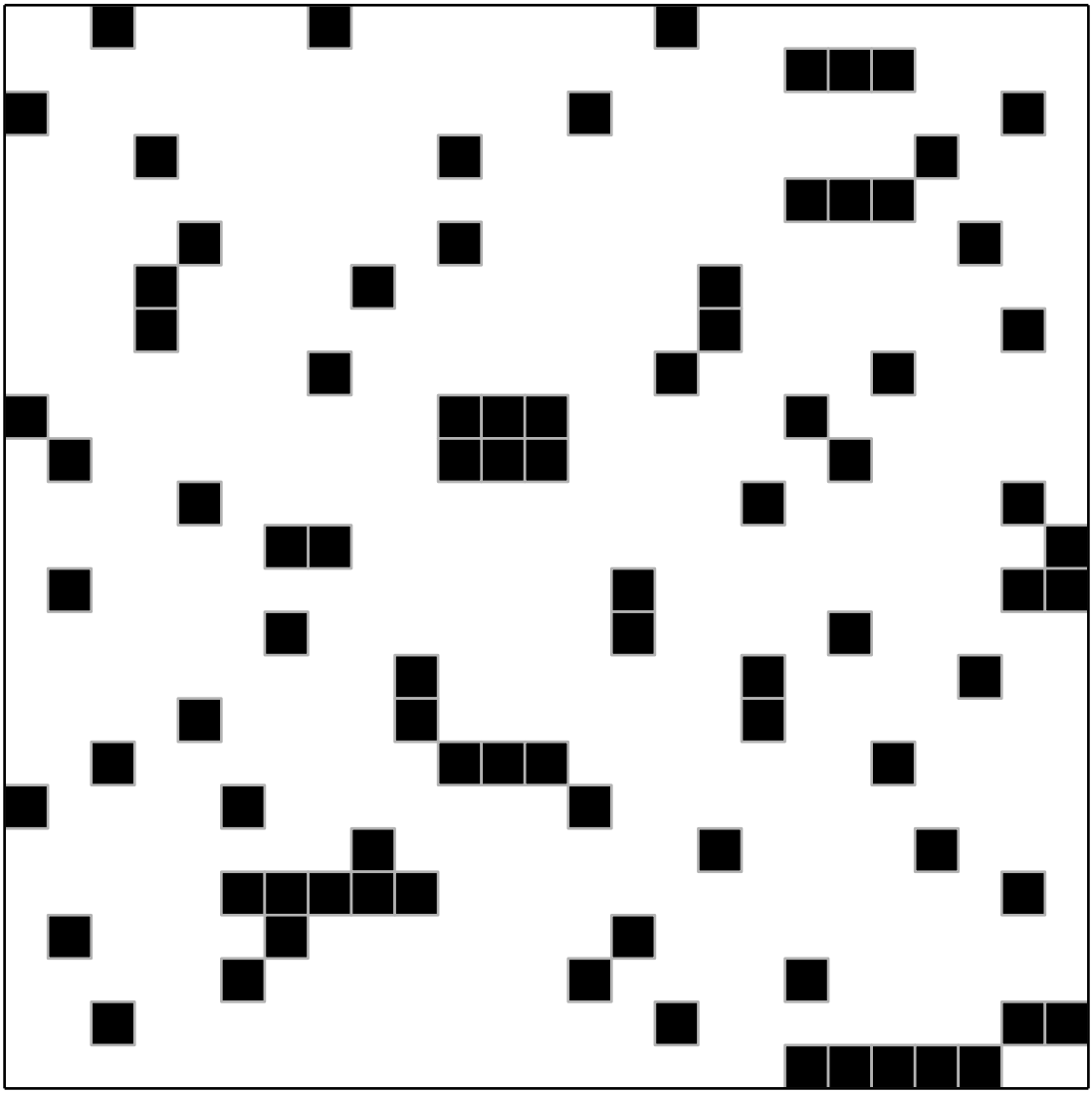
lib1_ex9_1_1-08 25x25 (88) con: 12, var: 13

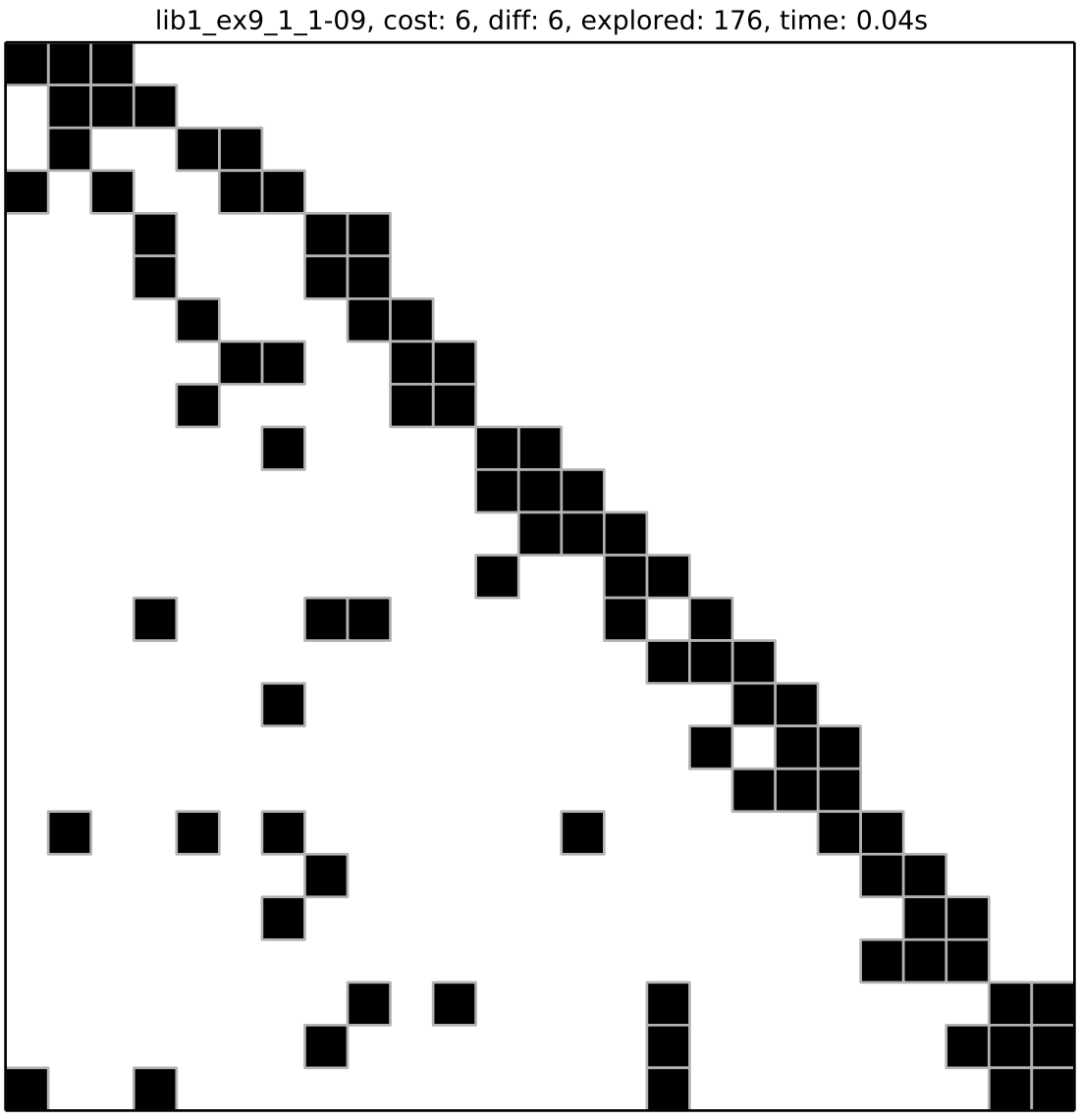


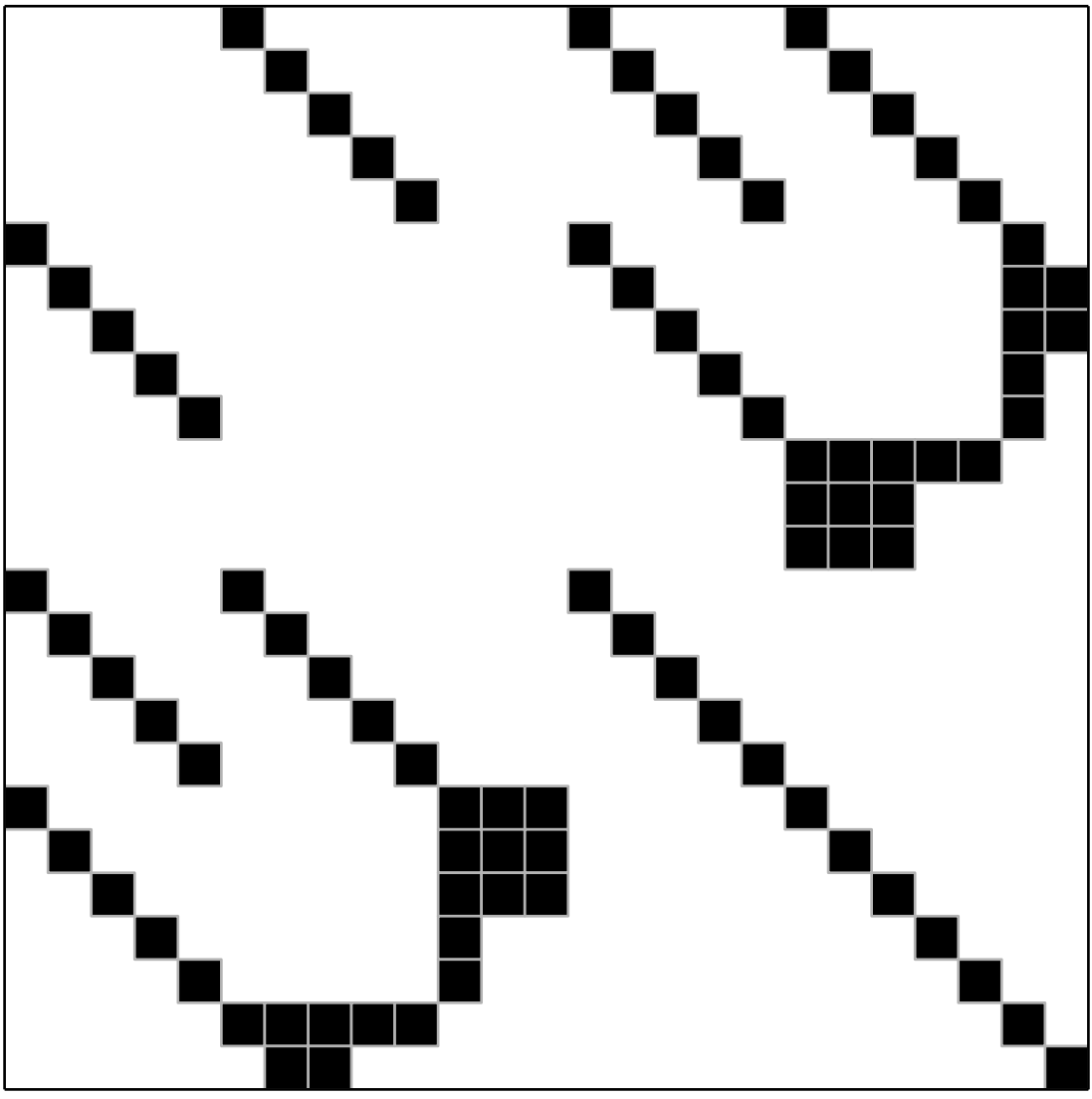
lib1_ex9_1_1-08, cost: 6, diff: 6, explored: 165, time: 0.04s



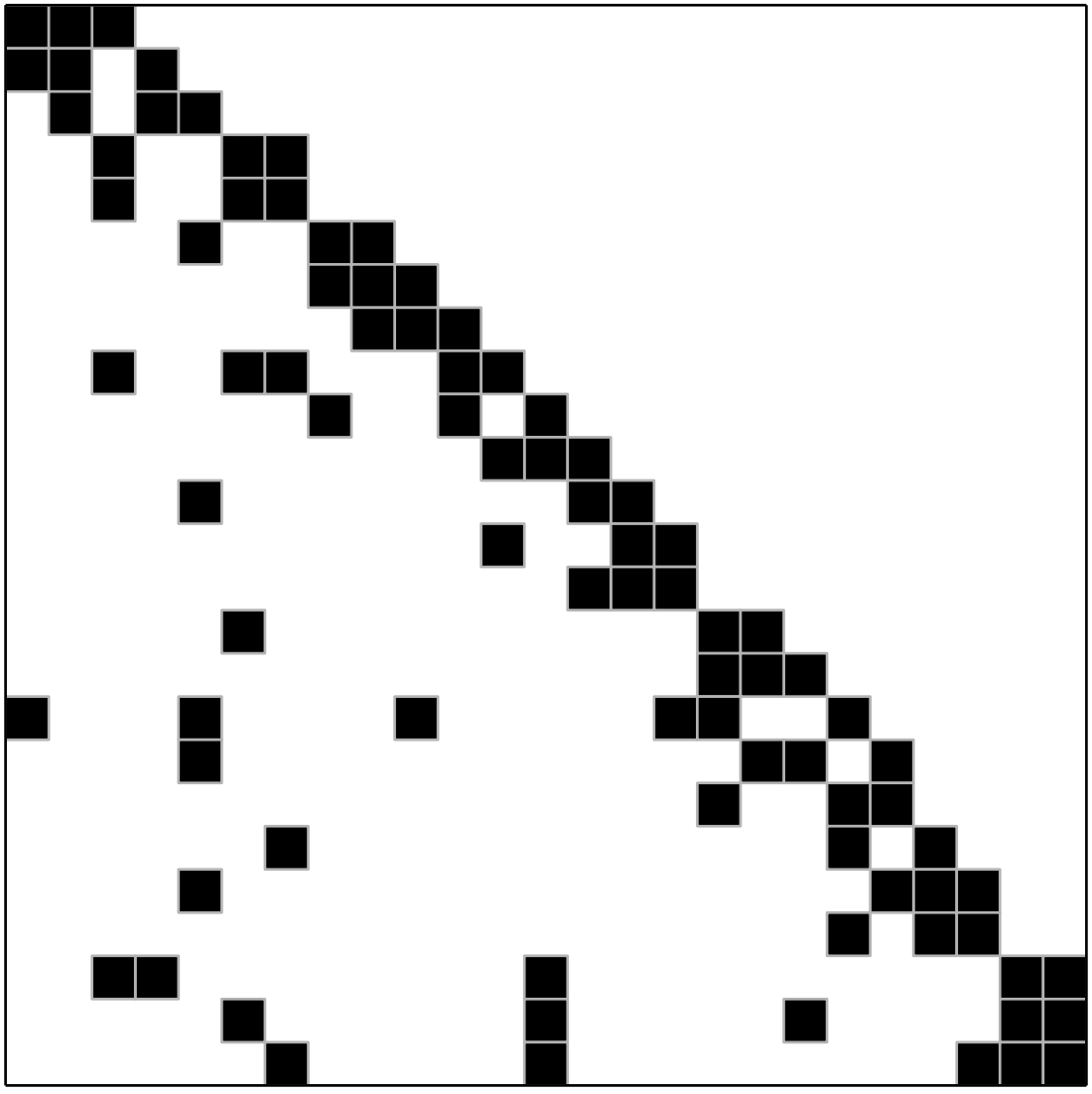
lib1_ex9_1_1-09 25x25 (88) con: 12, var: 13



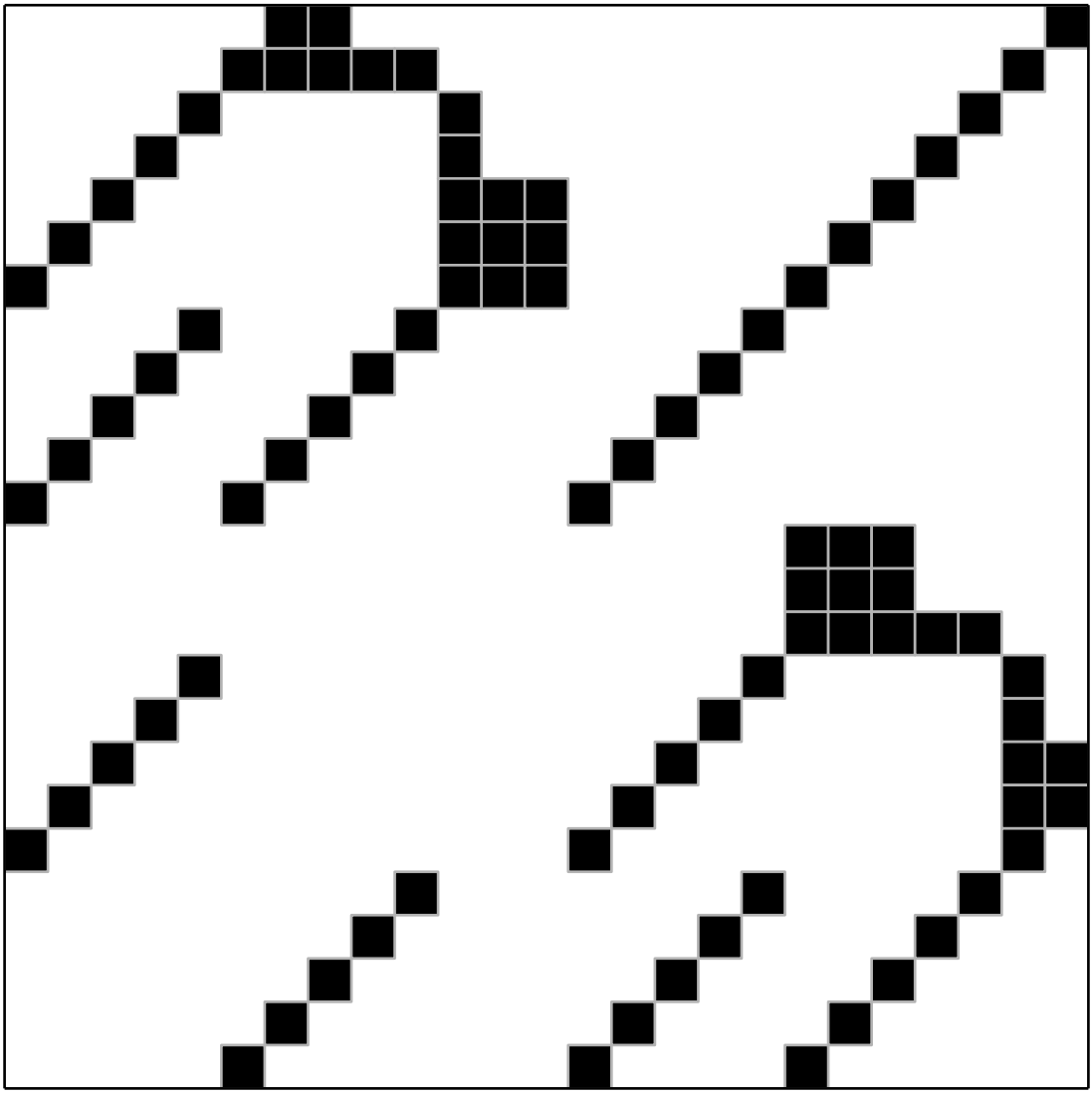

lib1_ex9_1_1-09, cost: 6, diff: 6, explored: 176, time: 0.04s

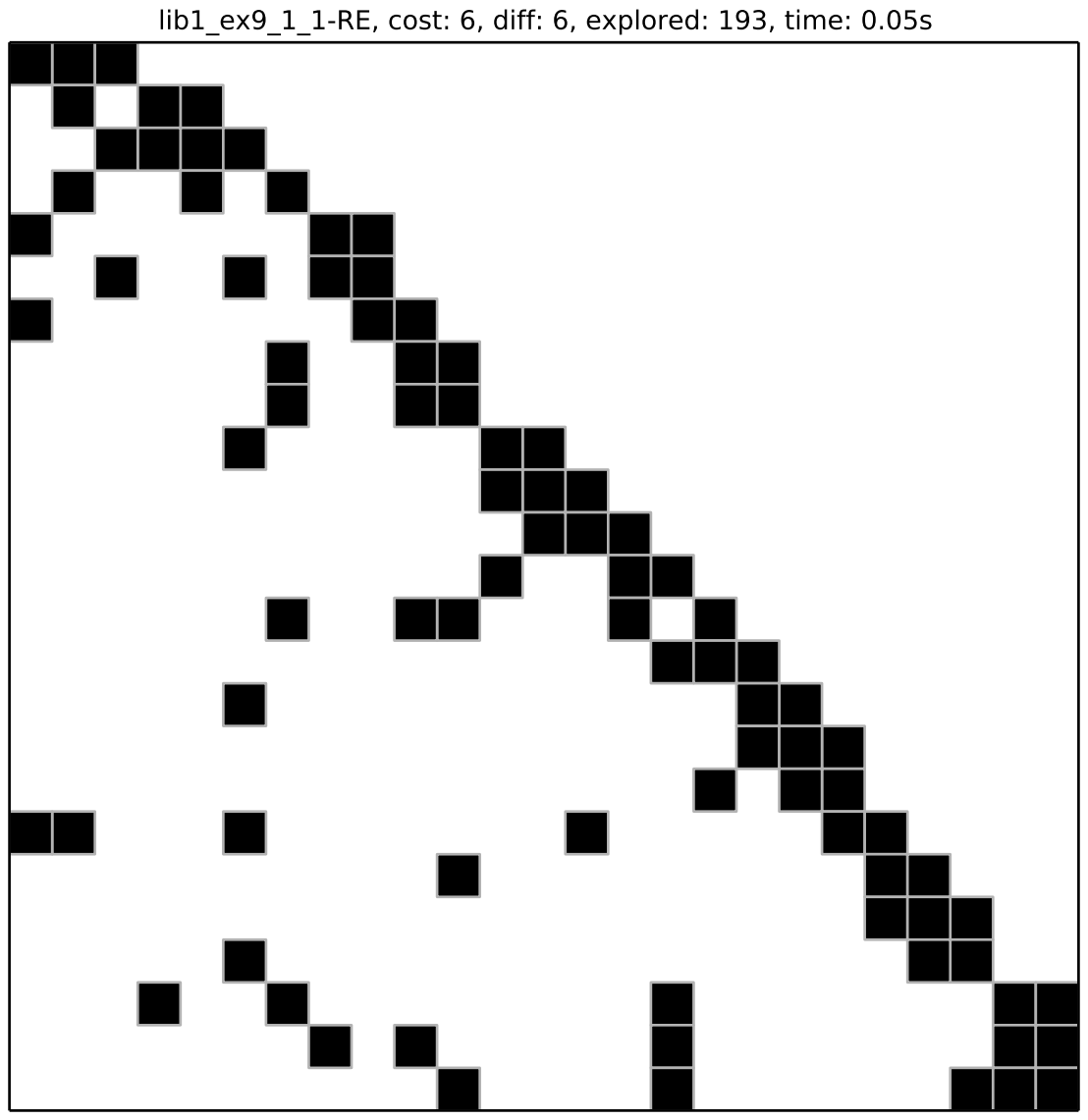

lib1_ex9_1_1-IN 25x25 (88) con: 12, var: 13

lib1_ex9_1_1-IN, cost: 6, diff: 6, explored: 128, time: 0.03s

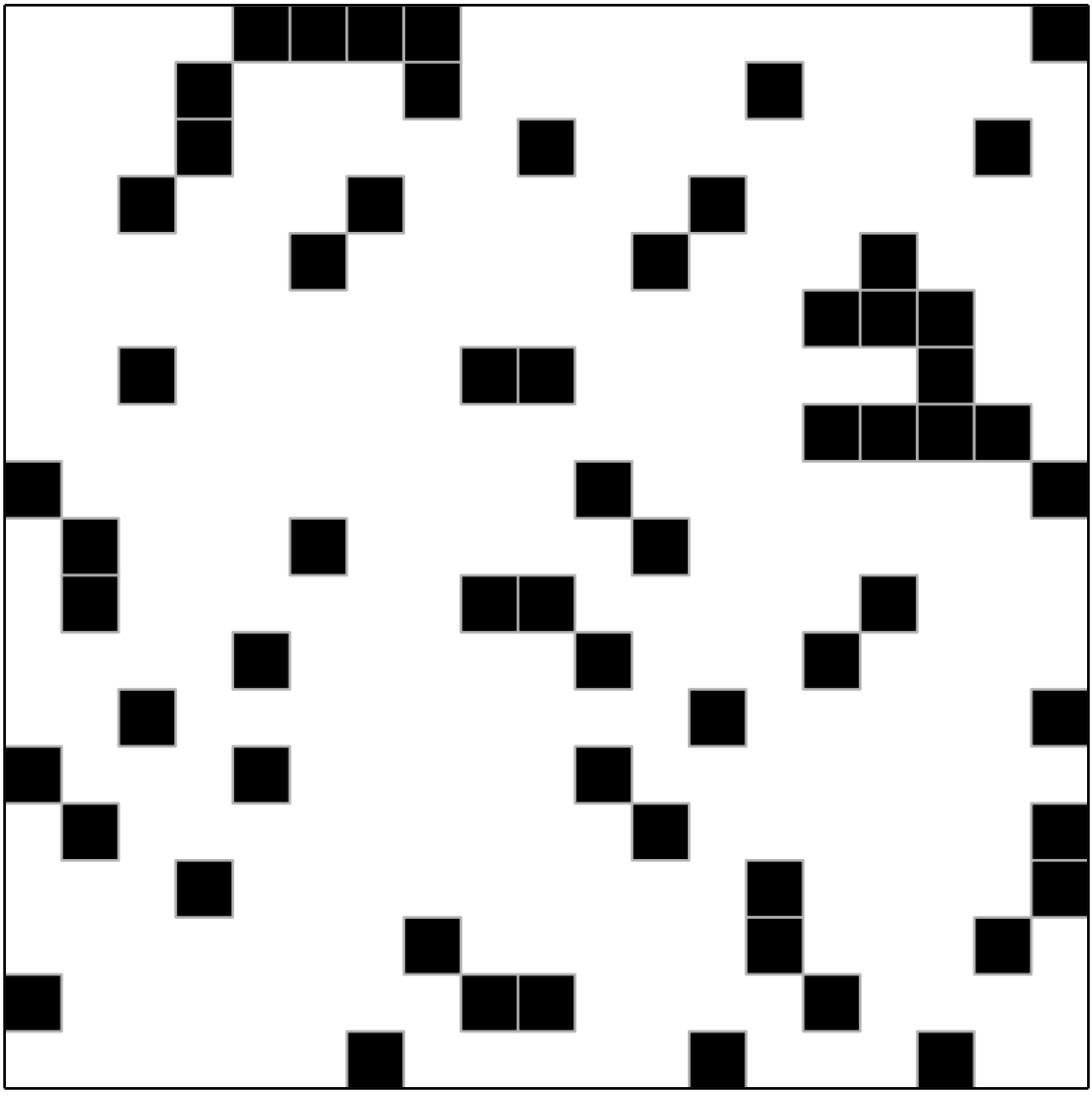


lib1_ex9_1_1-RE 25x25 (88) con: 12, var: 13

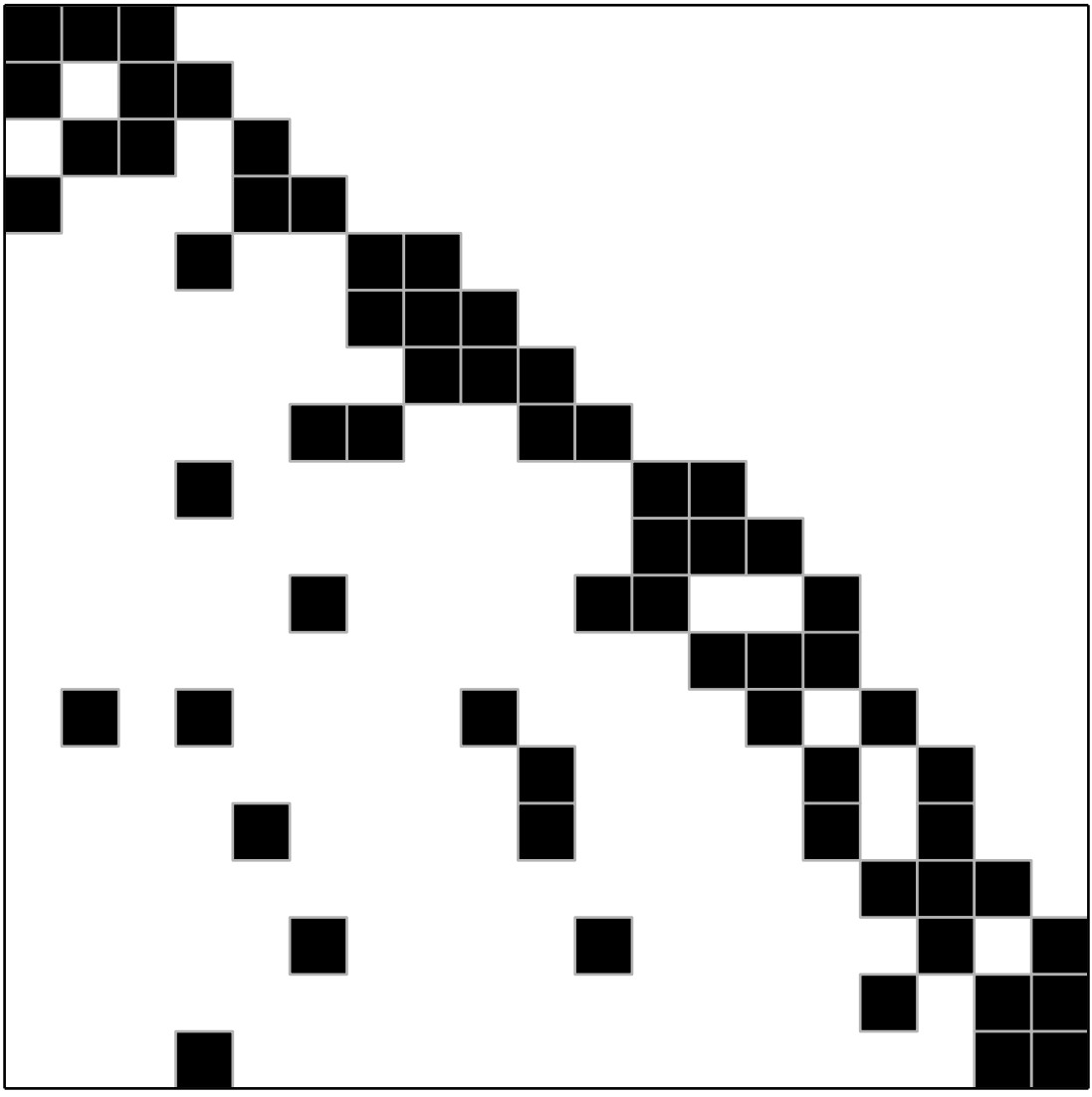



lib1_ex9_1_1-RE, cost: 6, diff: 6, explored: 193, time: 0.05s

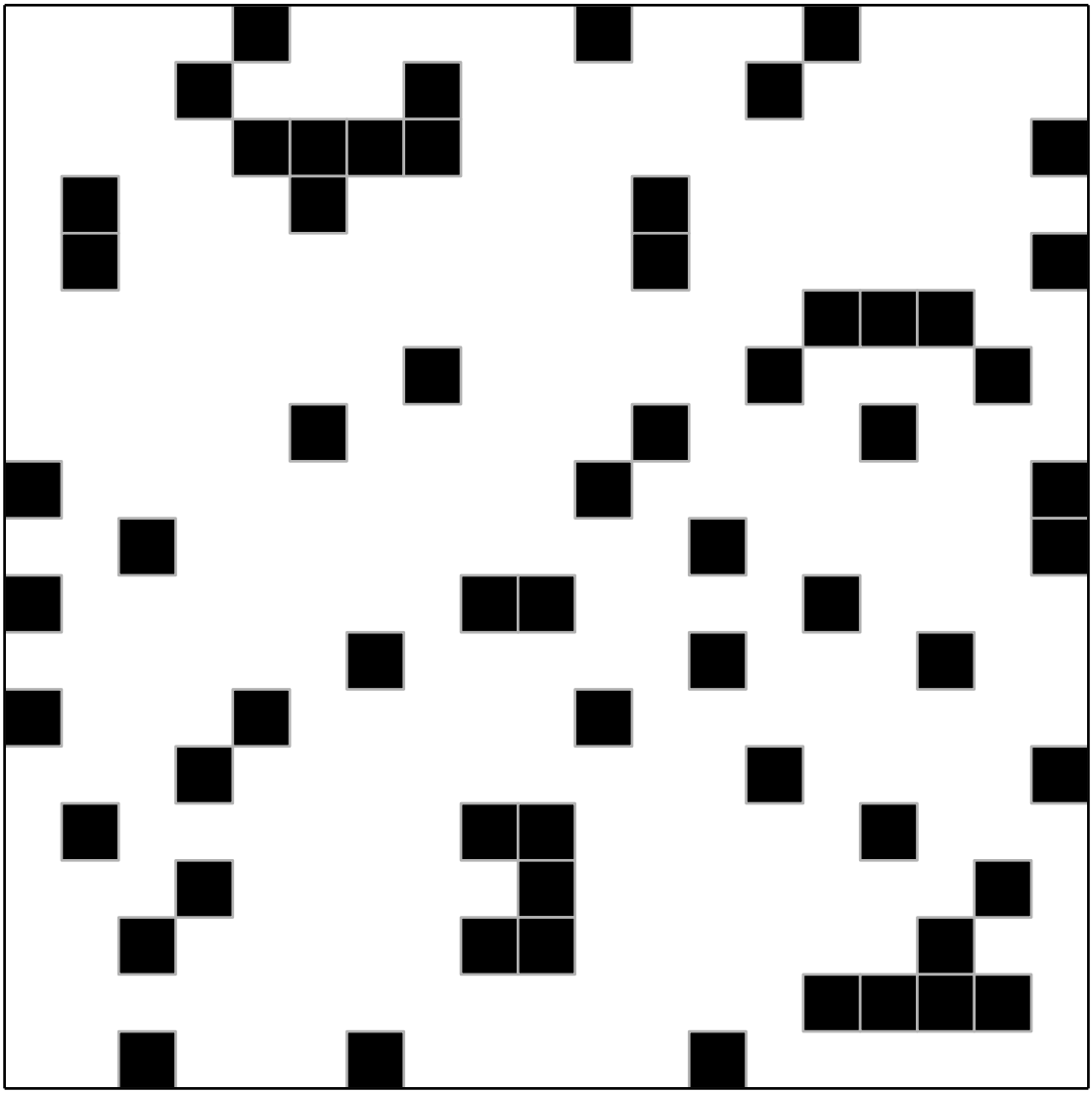
lib1_ex9_1_2-00 19x19 (63) con: 9, var: 10

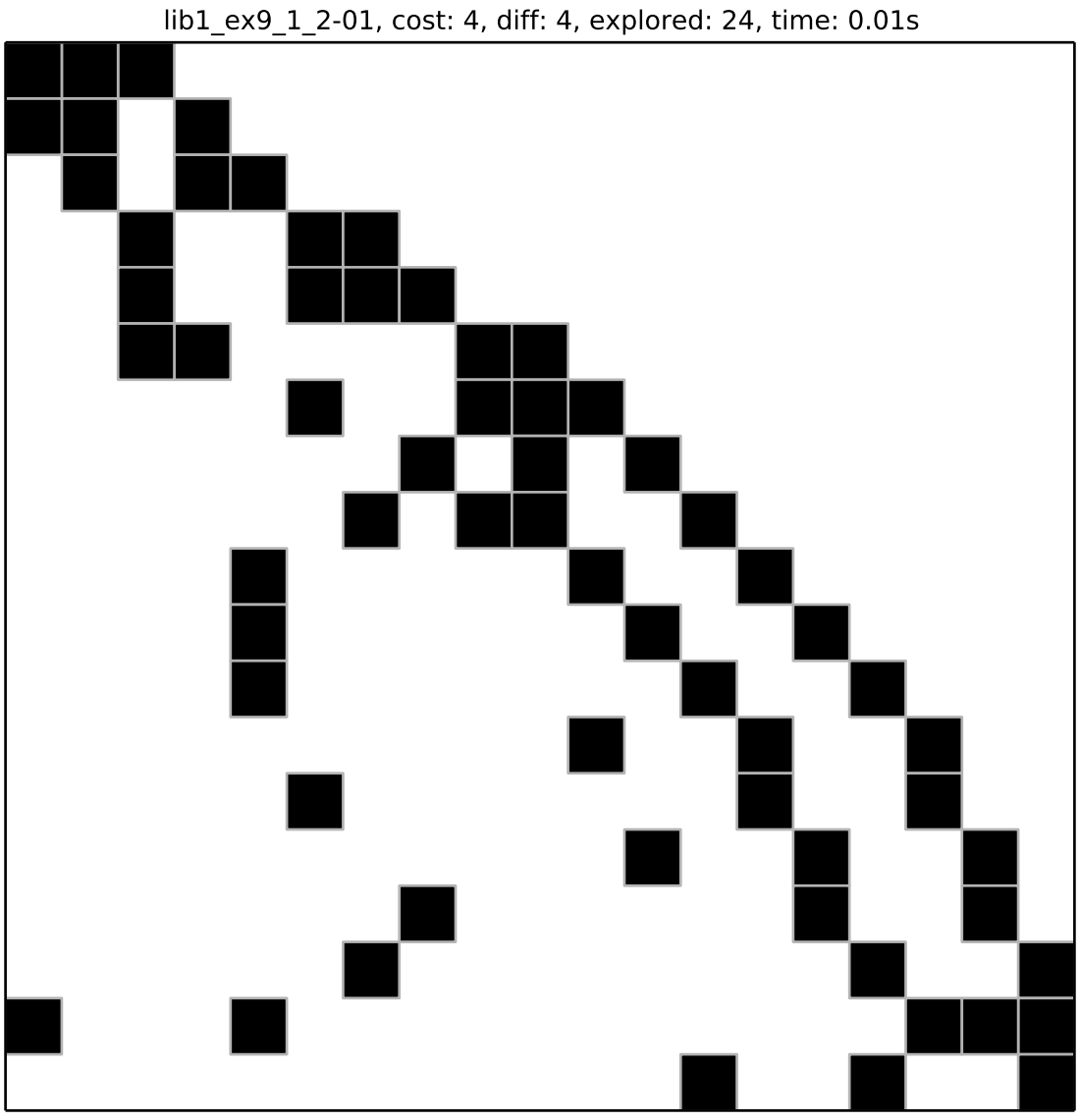


lib1_ex9_1_2-00, cost: 4, diff: 4, explored: 25, time: 0.01s

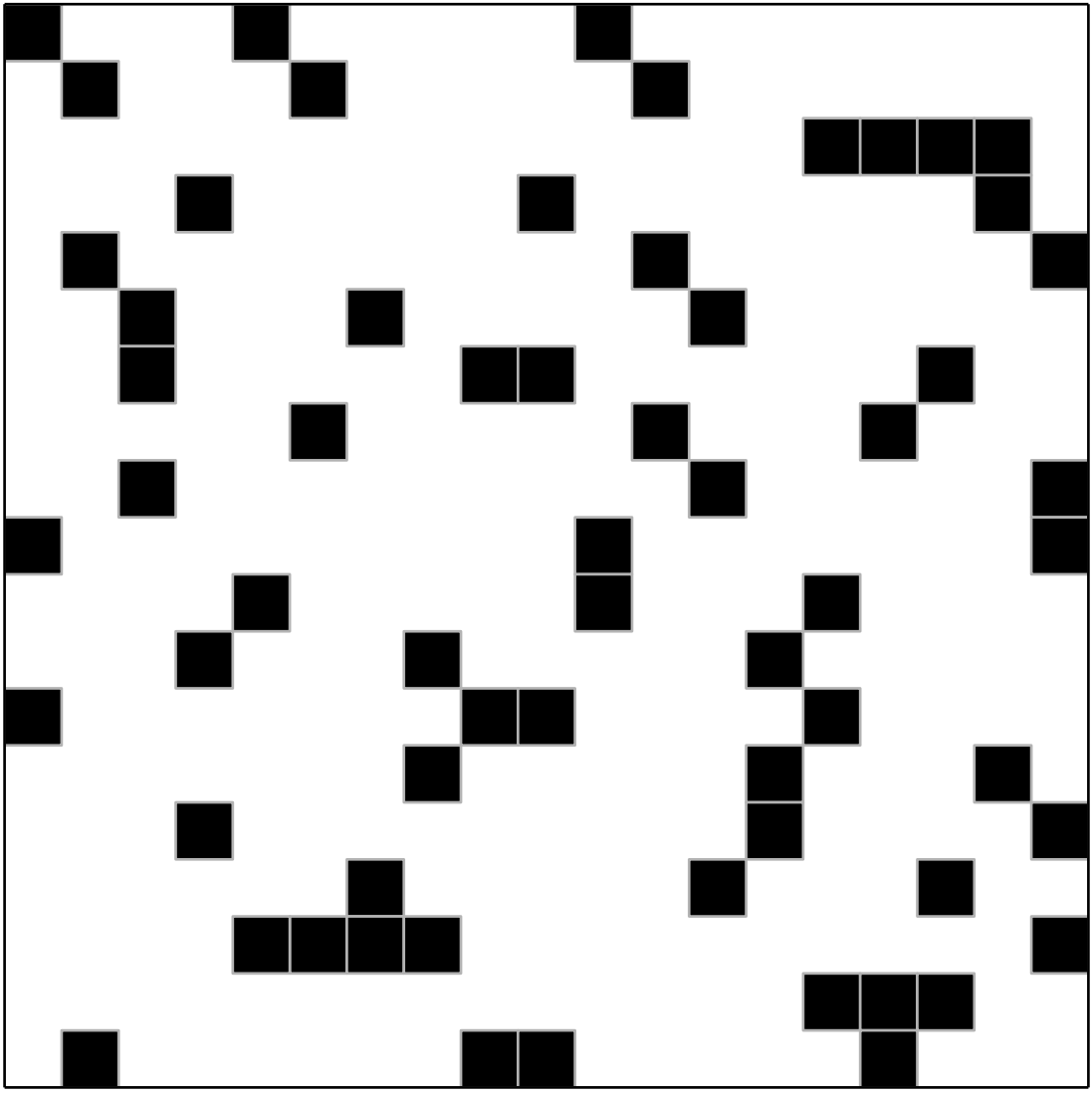


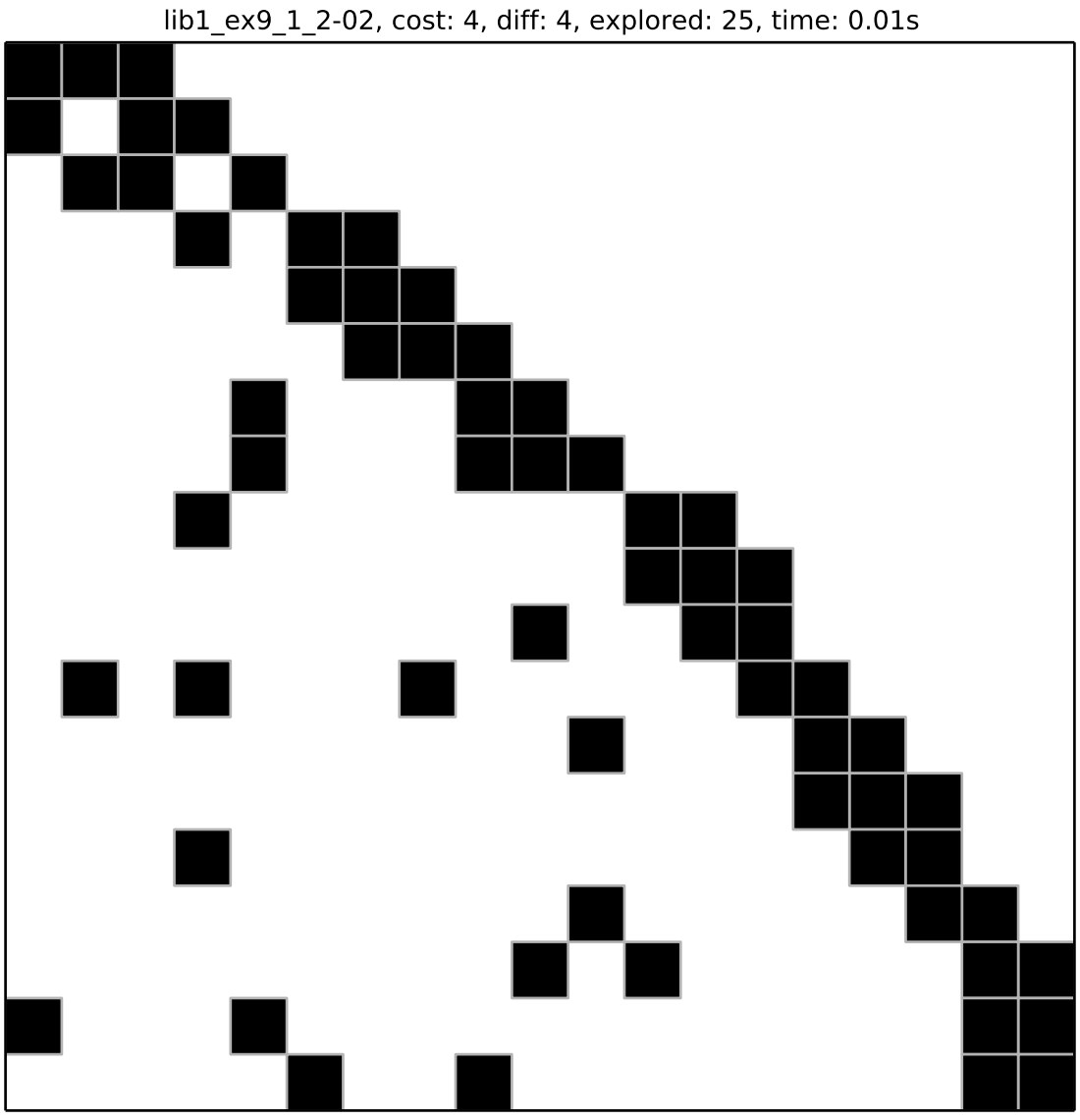
lib1_ex9_1_2-01 19x19 (63) con: 9, var: 10



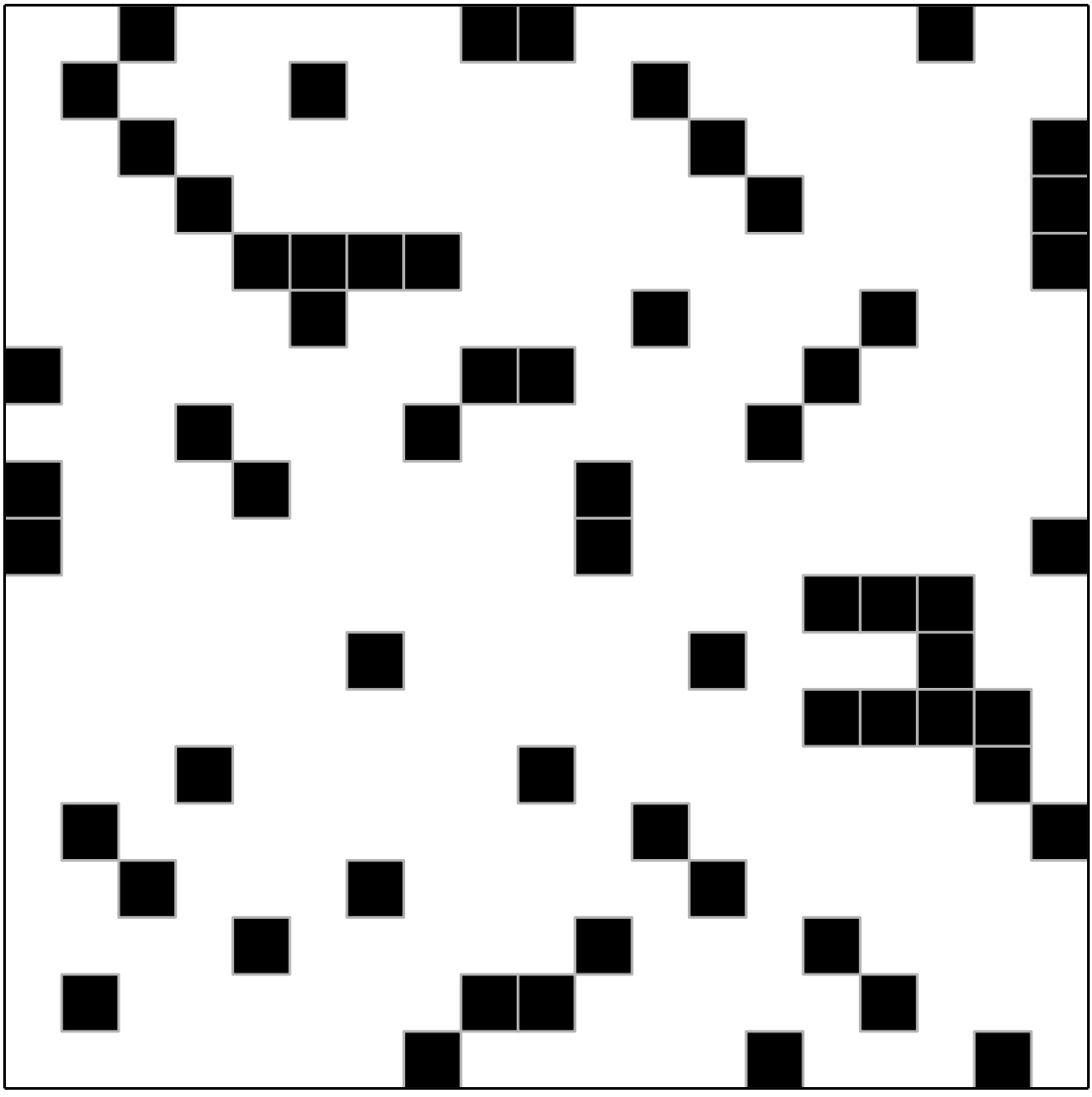

lib1_ex9_1_2-01, cost: 4, diff: 4, explored: 24, time: 0.01s

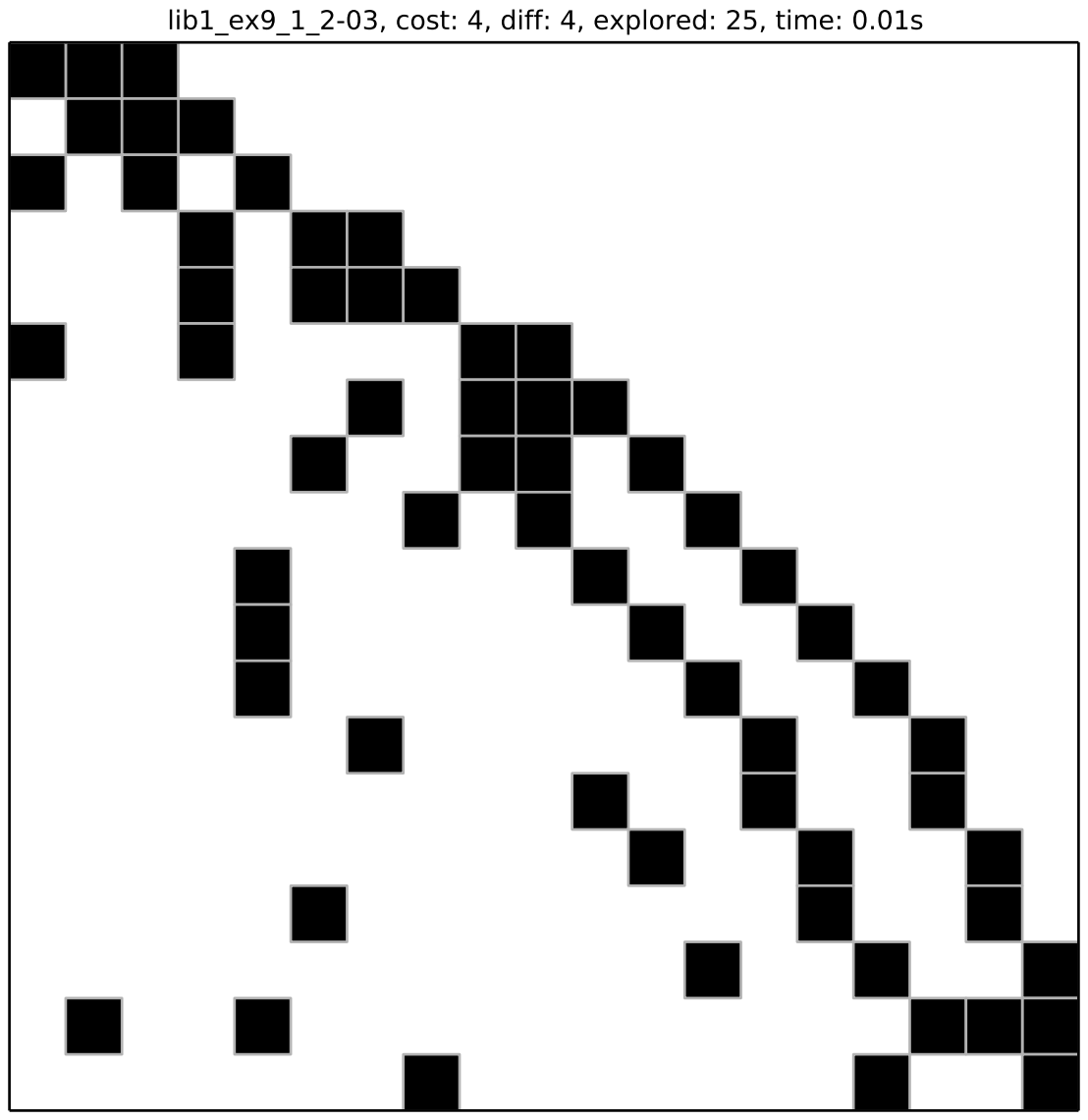
lib1_ex9_1_2-02 19x19 (63) con: 9, var: 10



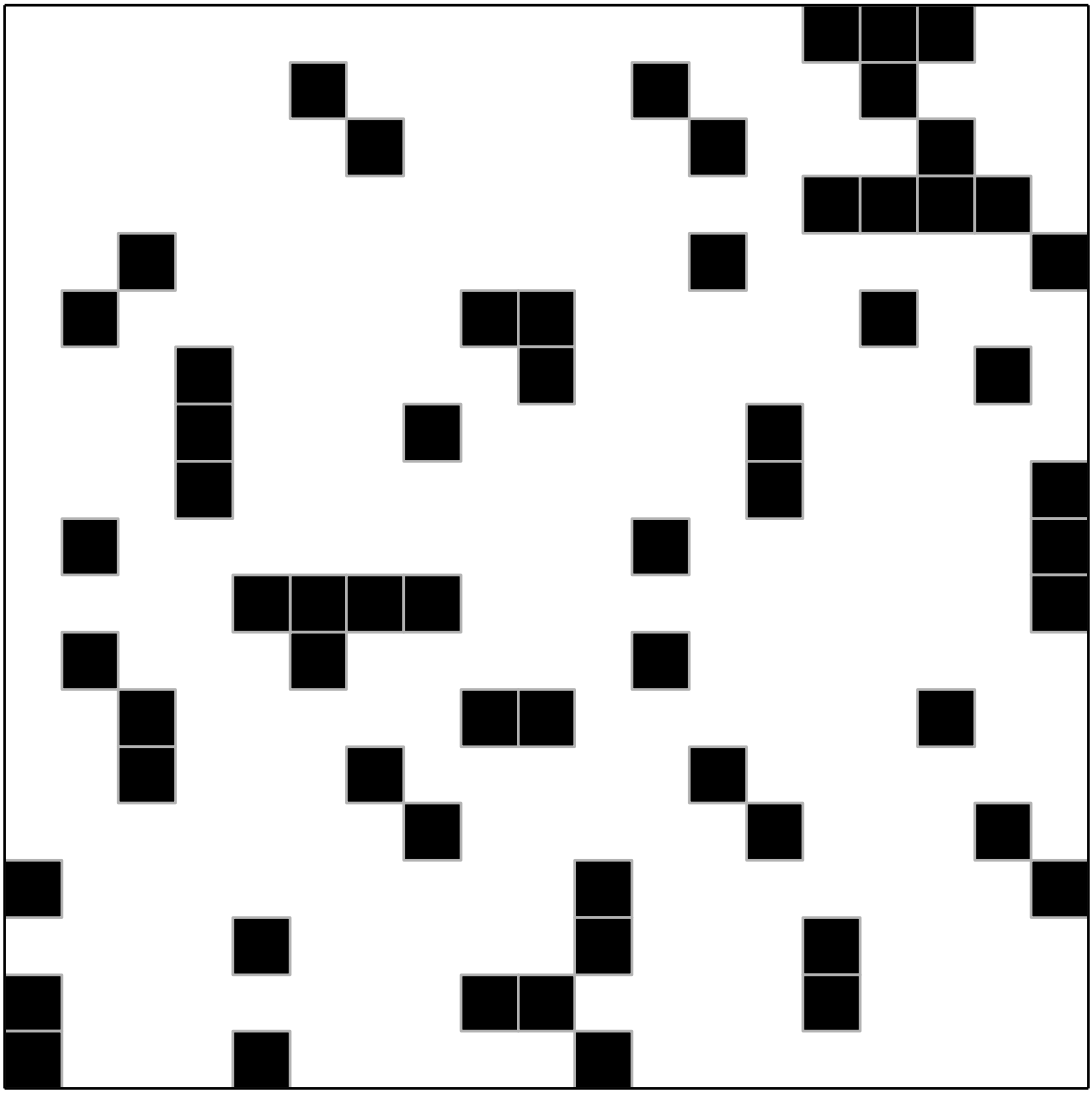

lib1_ex9_1_2-02, cost: 4, diff: 4, explored: 25, time: 0.01s

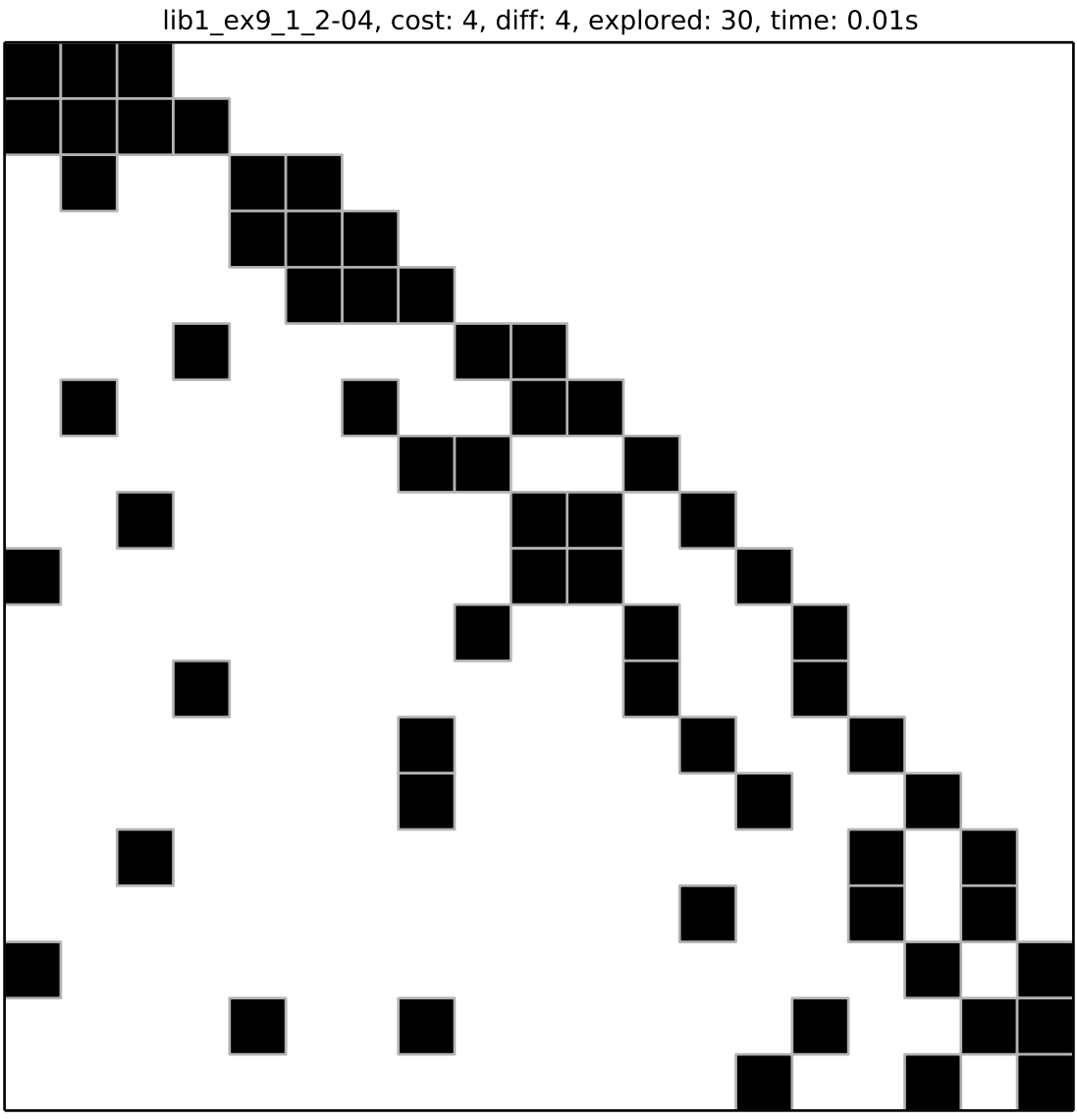
lib1_ex9_1_2-03 19x19 (63) con: 9, var: 10



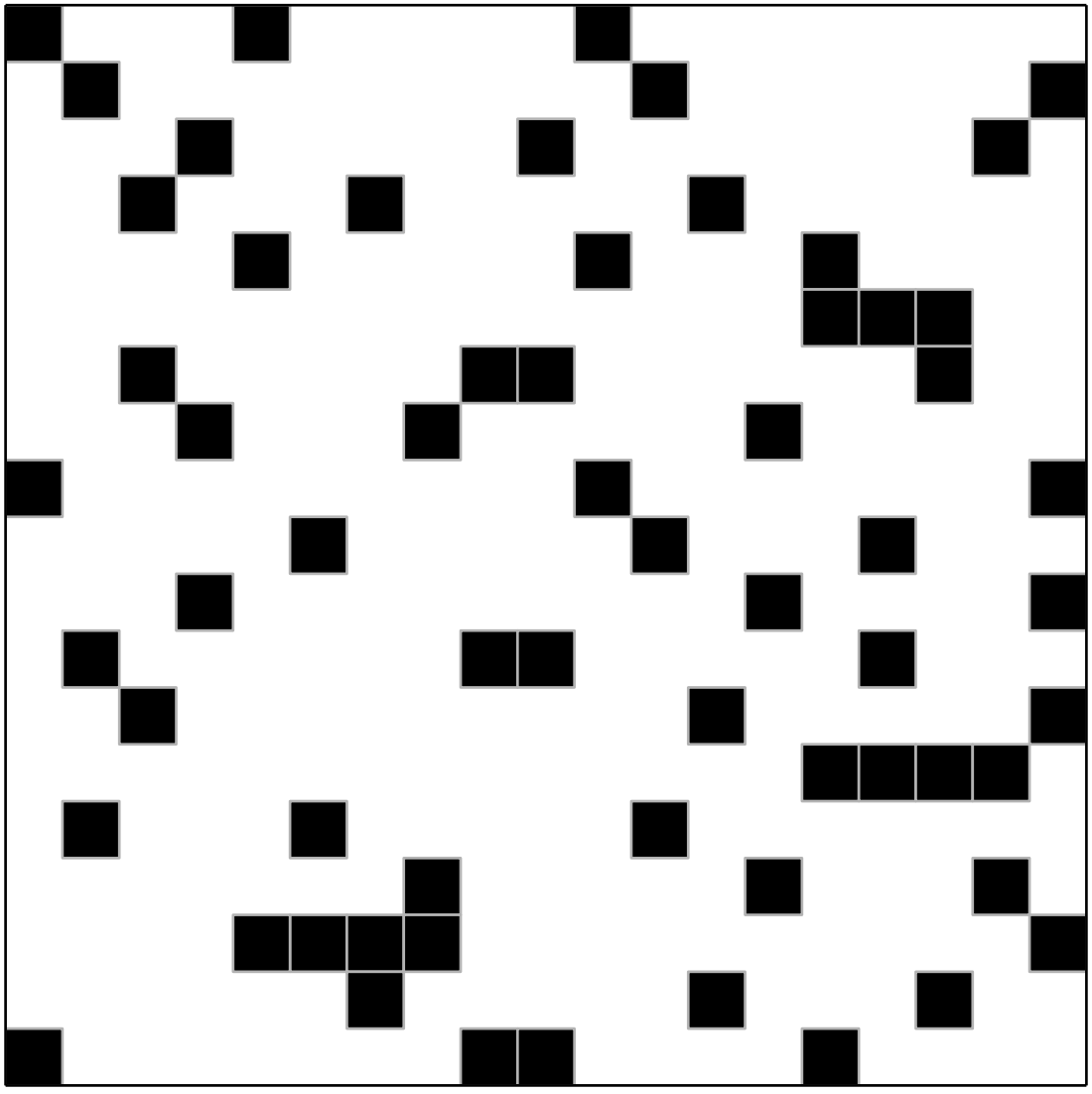

lib1_ex9_1_2-03, cost: 4, diff: 4, explored: 25, time: 0.01s

lib1_ex9_1_2-04 19x19 (63) con: 9, var: 10

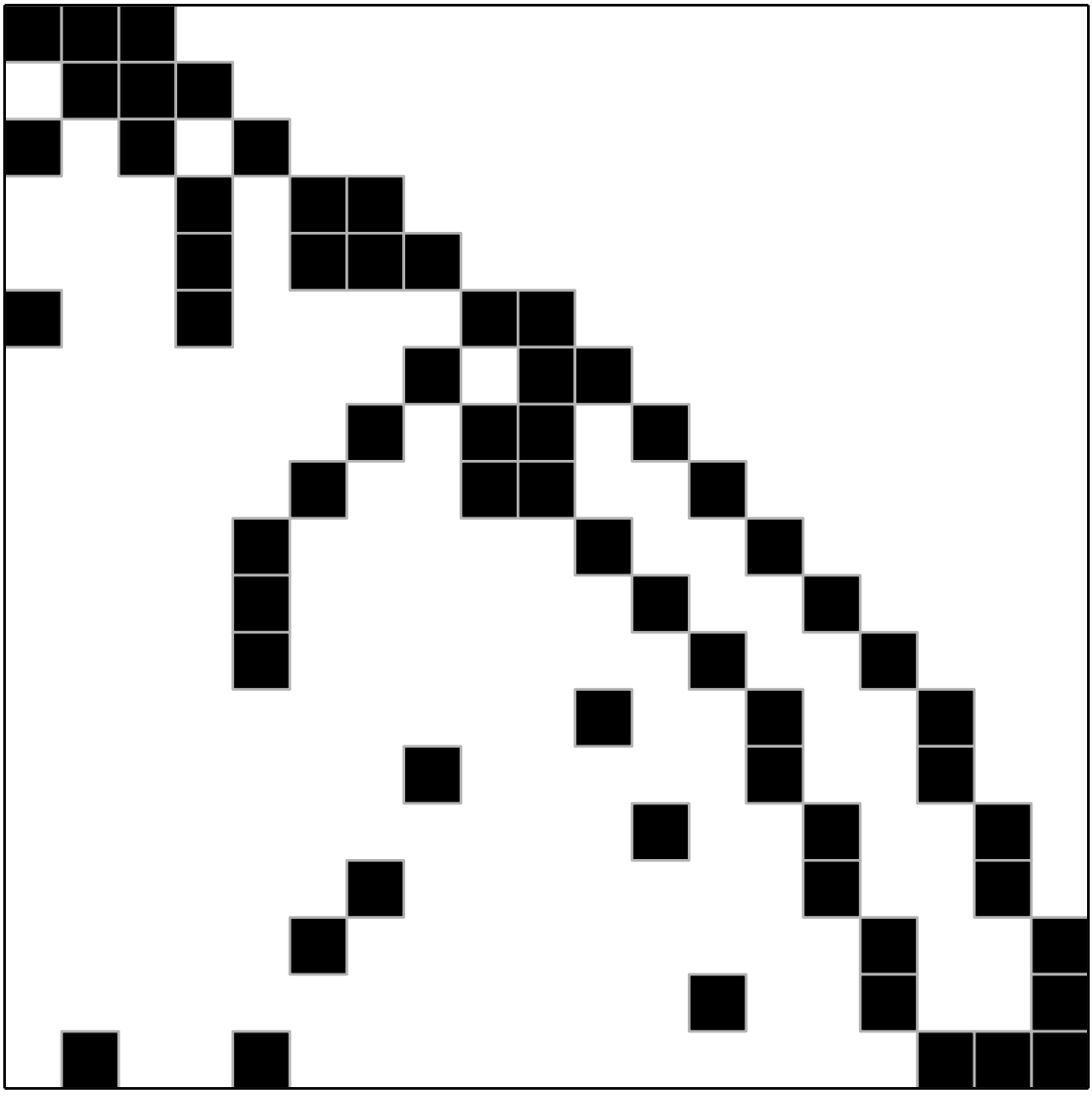



lib1_ex9_1_2-04, cost: 4, diff: 4, explored: 30, time: 0.01s

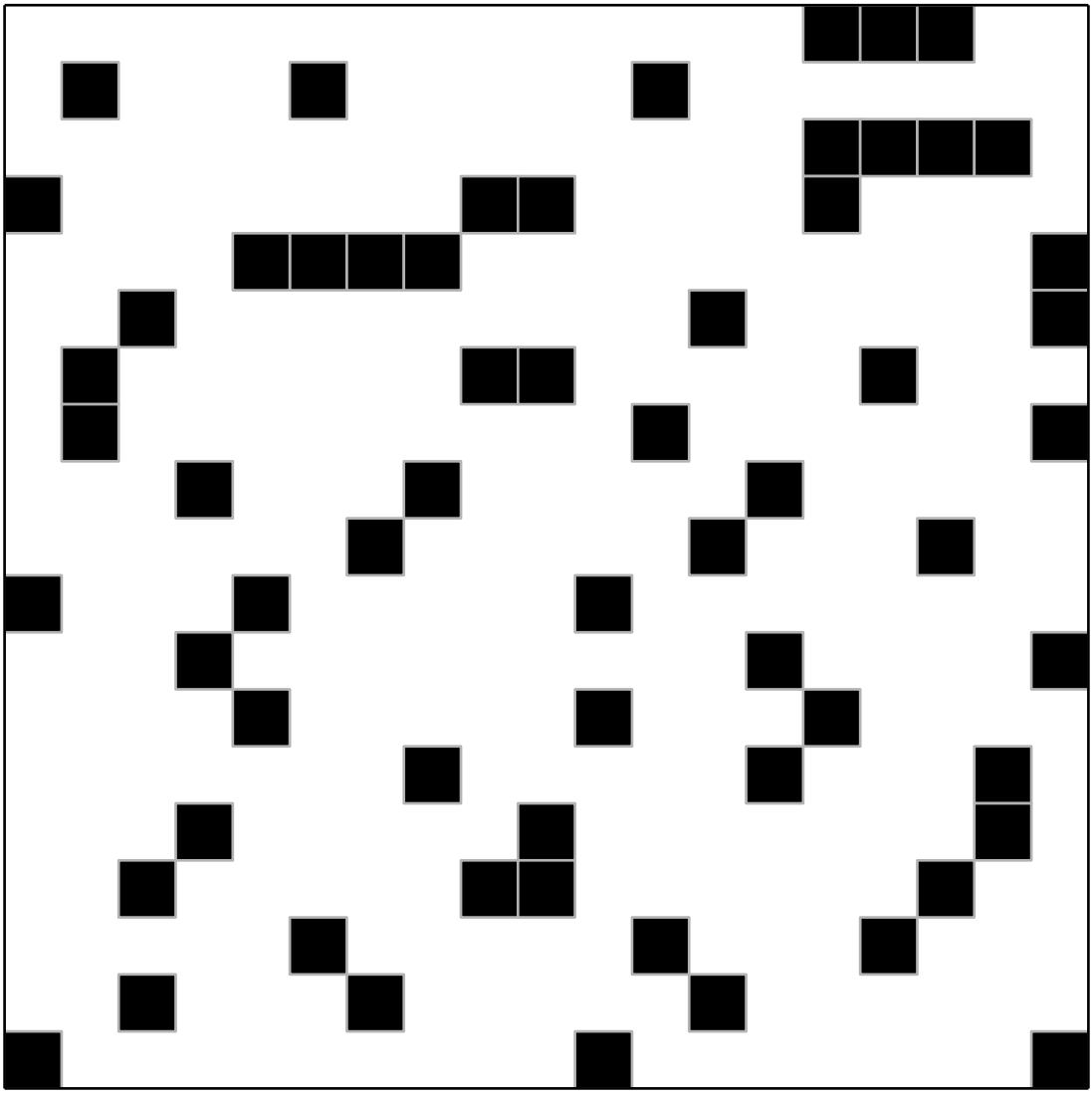
lib1_ex9_1_2-05 19x19 (63) con: 9, var: 10

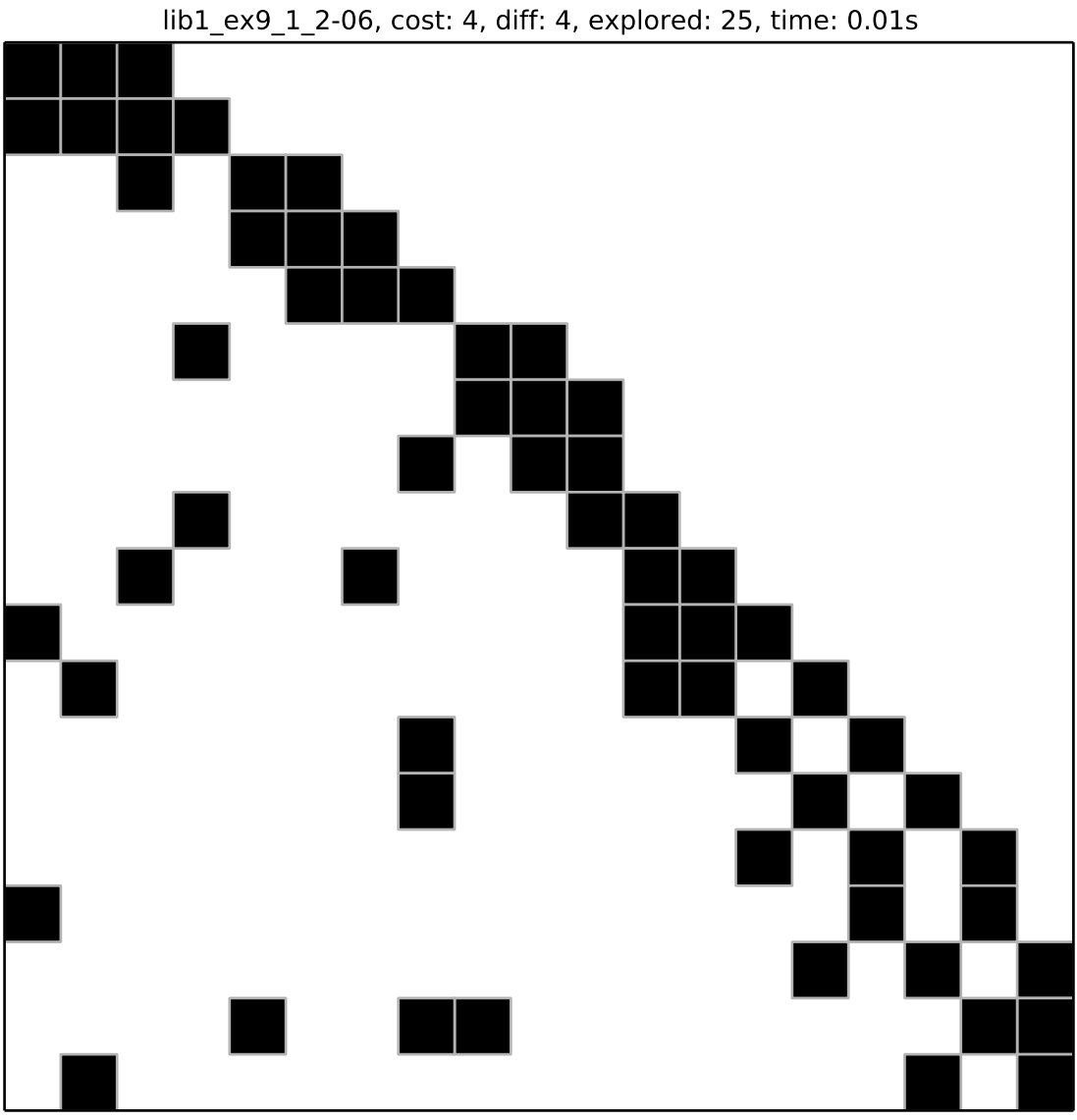


lib1_ex9_1_2-05, cost: 4, diff: 4, explored: 27, time: 0.01s

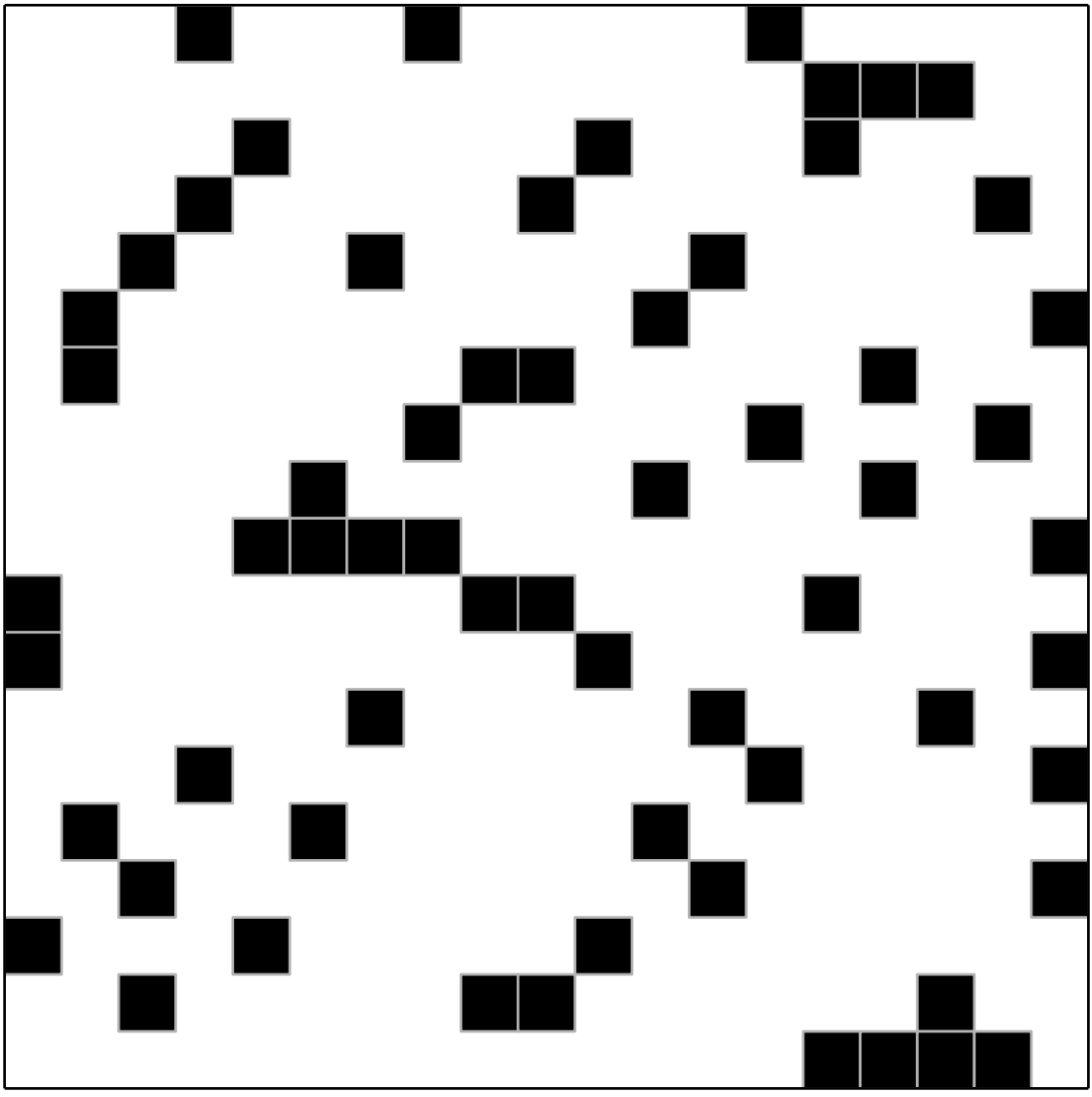


lib1_ex9_1_2-06 19x19 (63) con: 9, var: 10

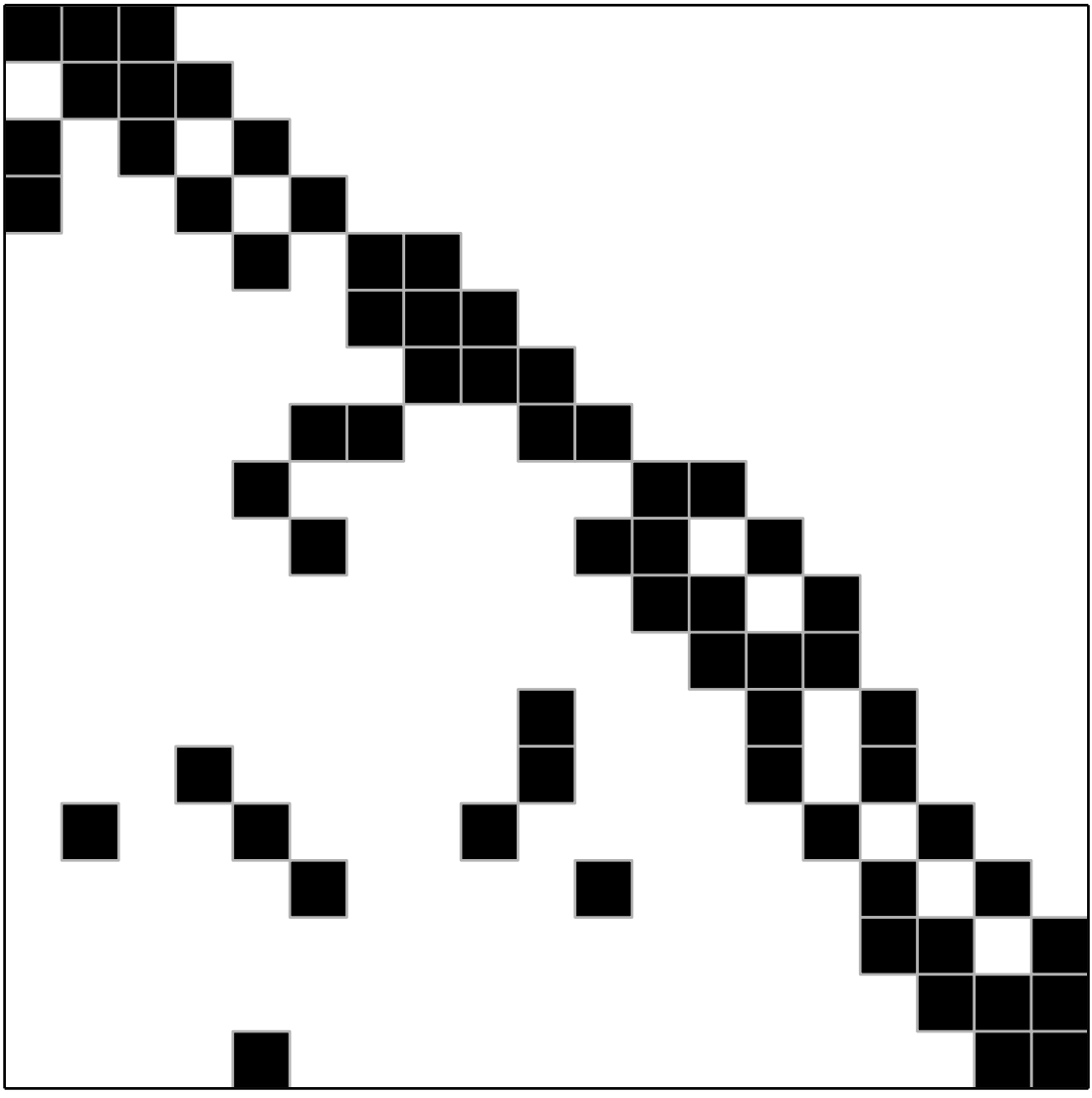



lib1_ex9_1_2-06, cost: 4, diff: 4, explored: 25, time: 0.01s

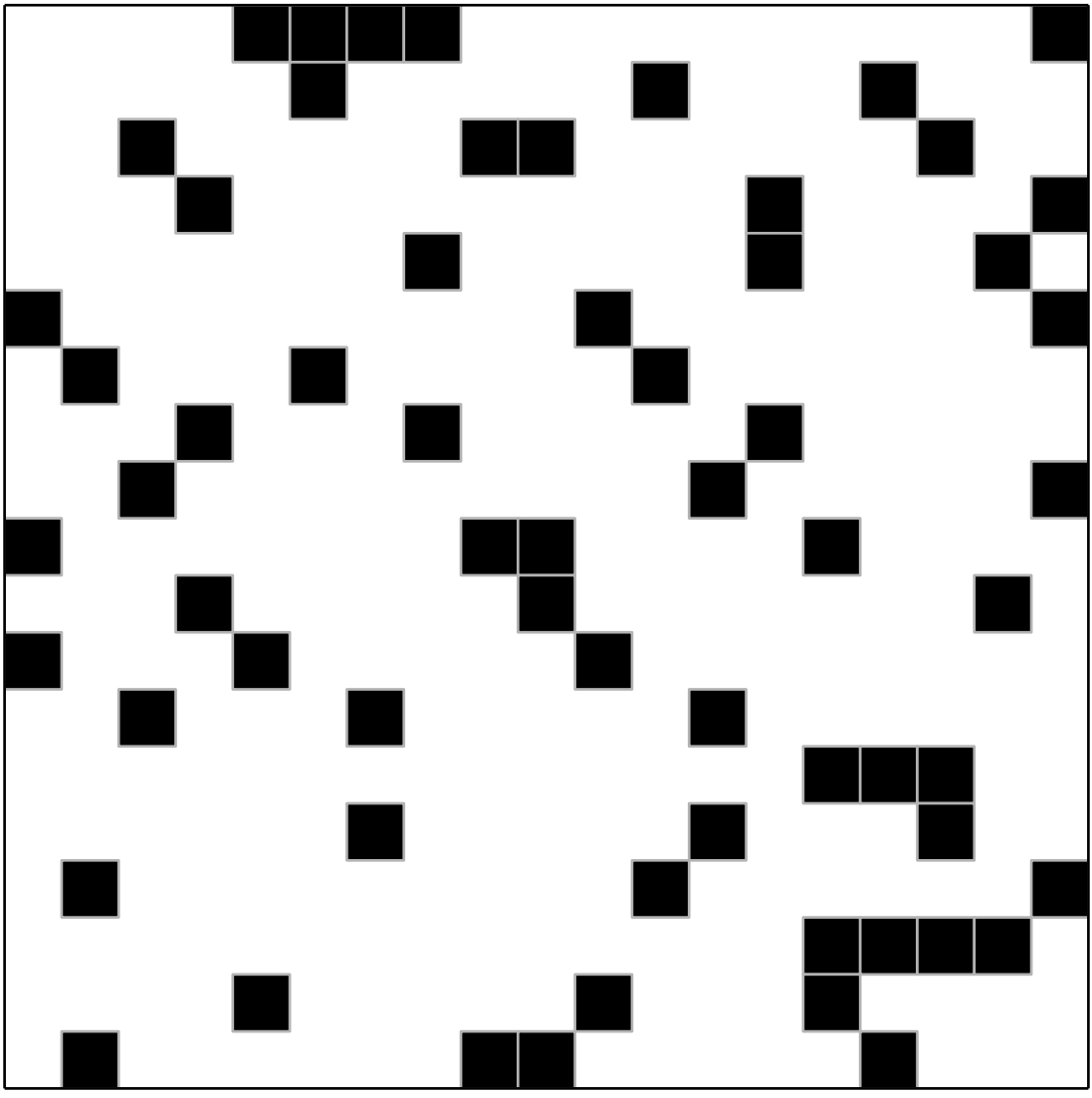
lib1_ex9_1_2-07 19x19 (63) con: 9, var: 10

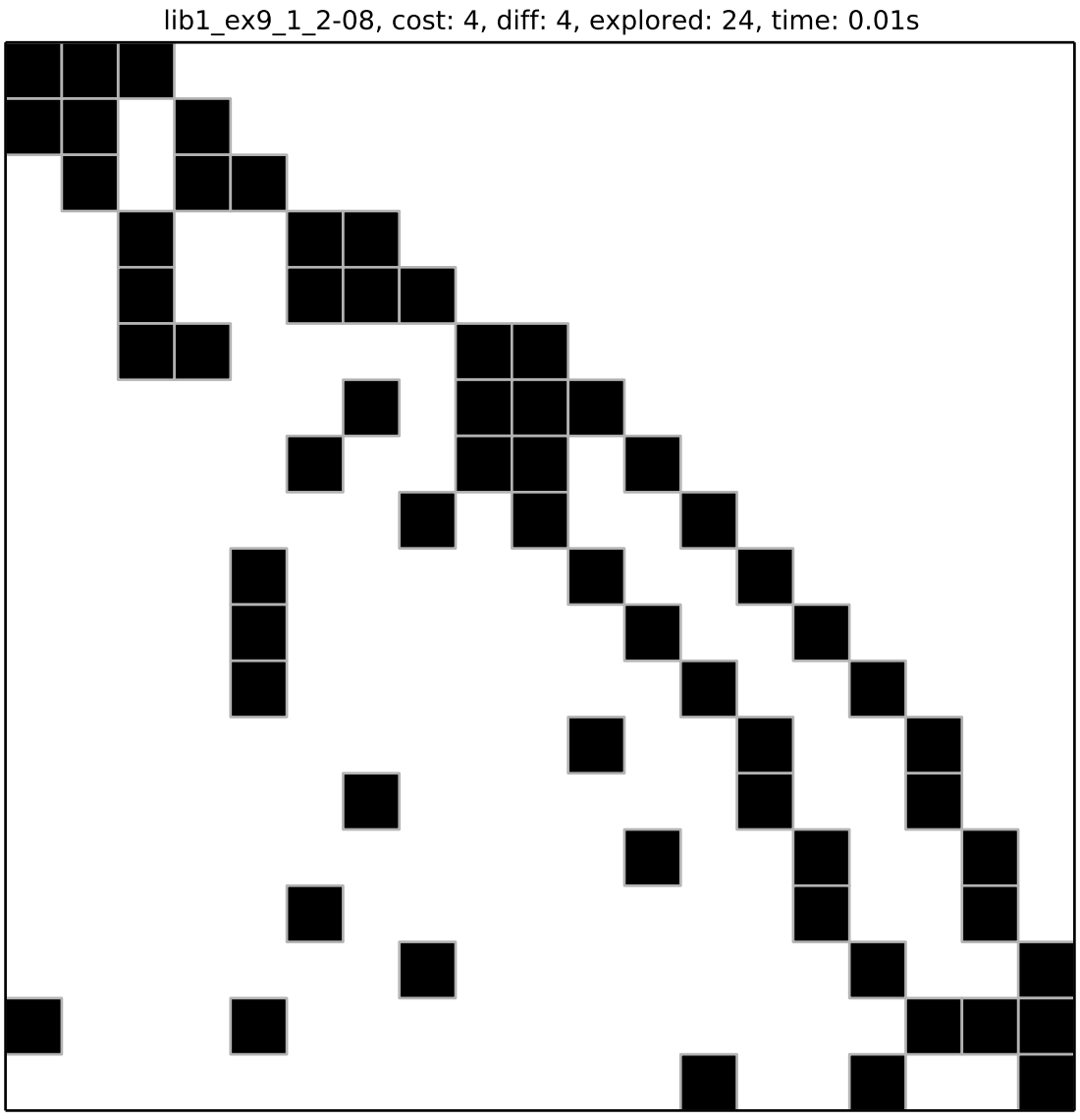


lib1_ex9_1_2-07, cost: 4, diff: 4, explored: 27, time: 0.01s

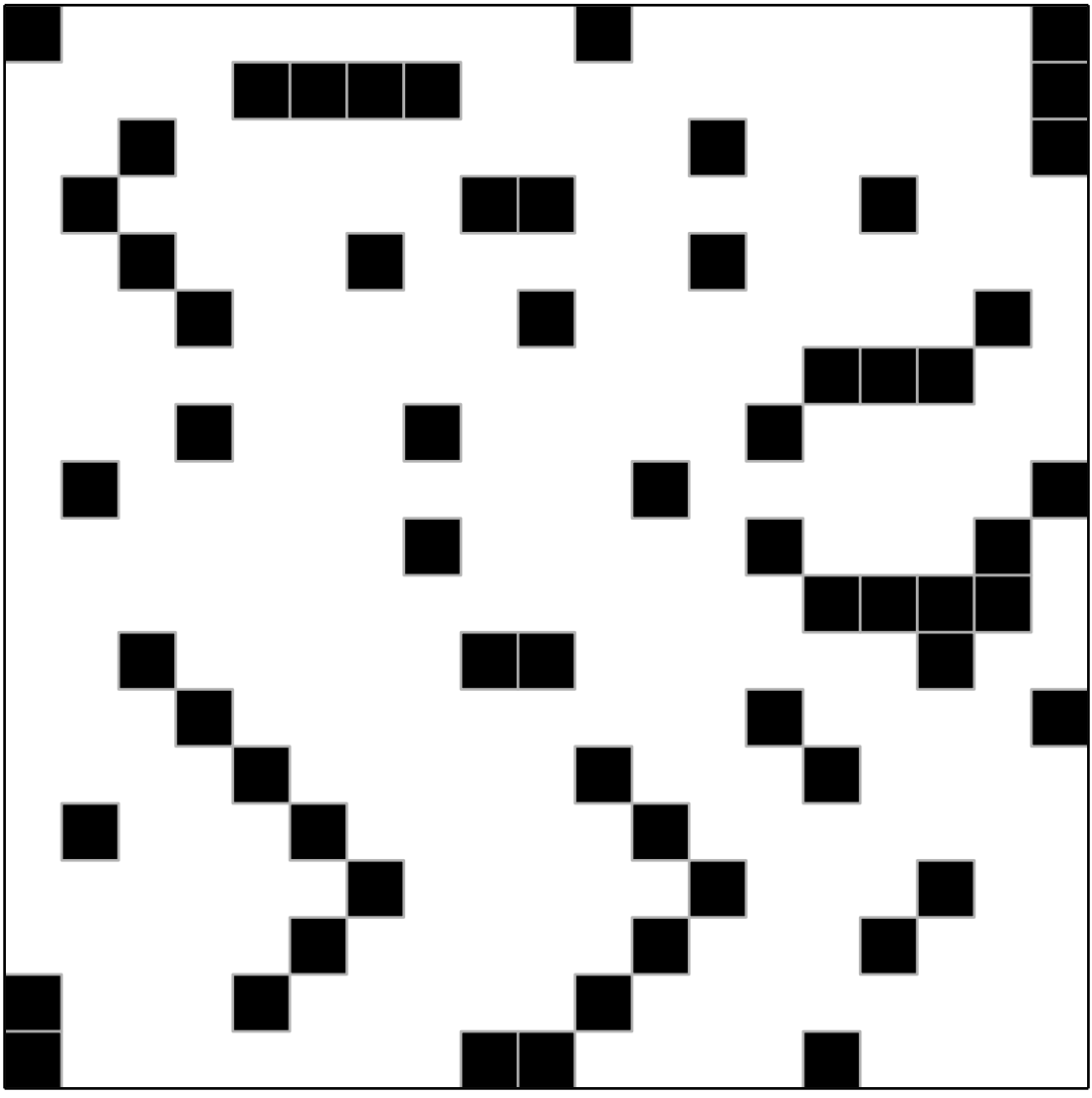


lib1_ex9_1_2-08 19x19 (63) con: 9, var: 10

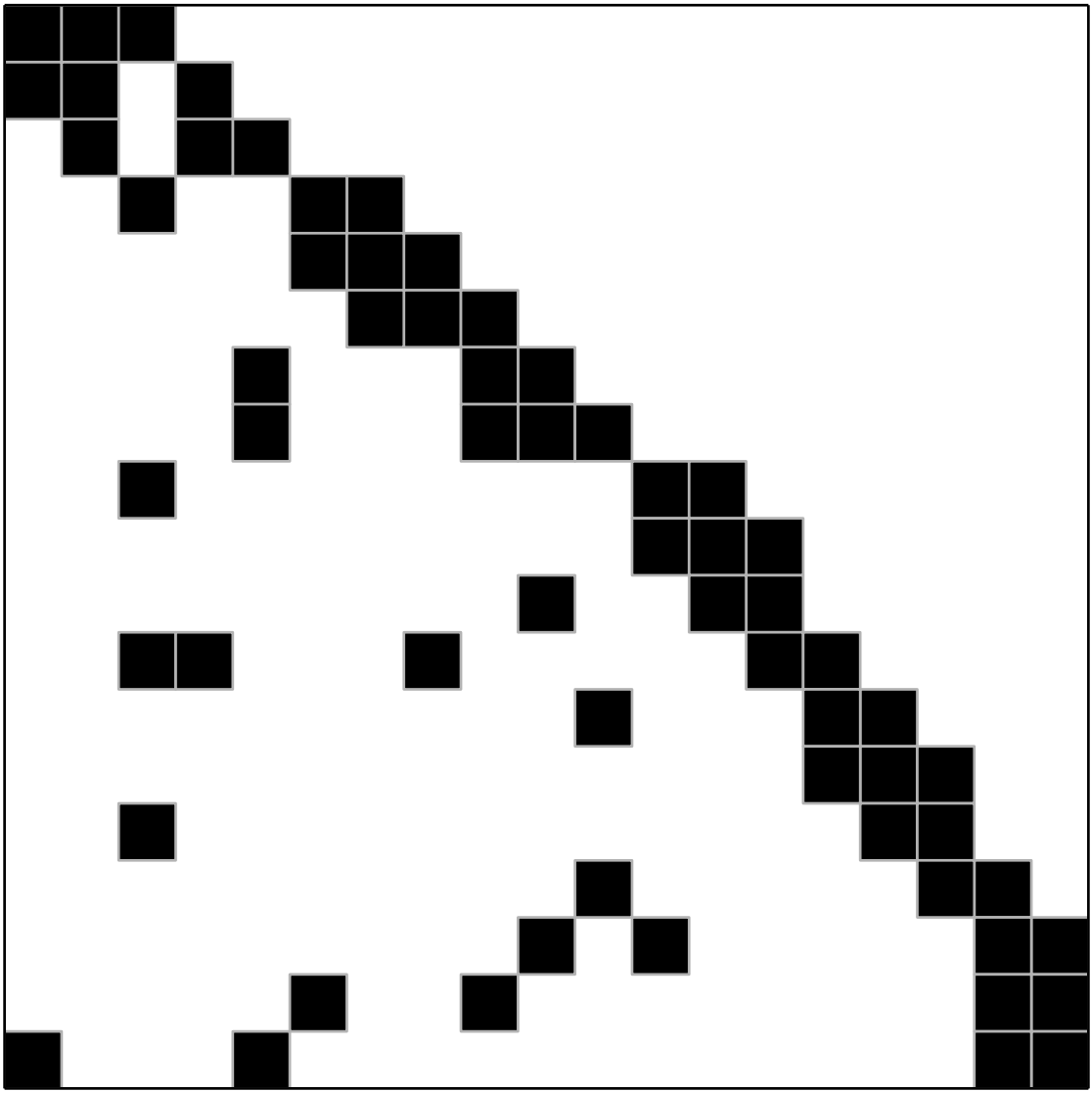



lib1_ex9_1_2-08, cost: 4, diff: 4, explored: 24, time: 0.01s

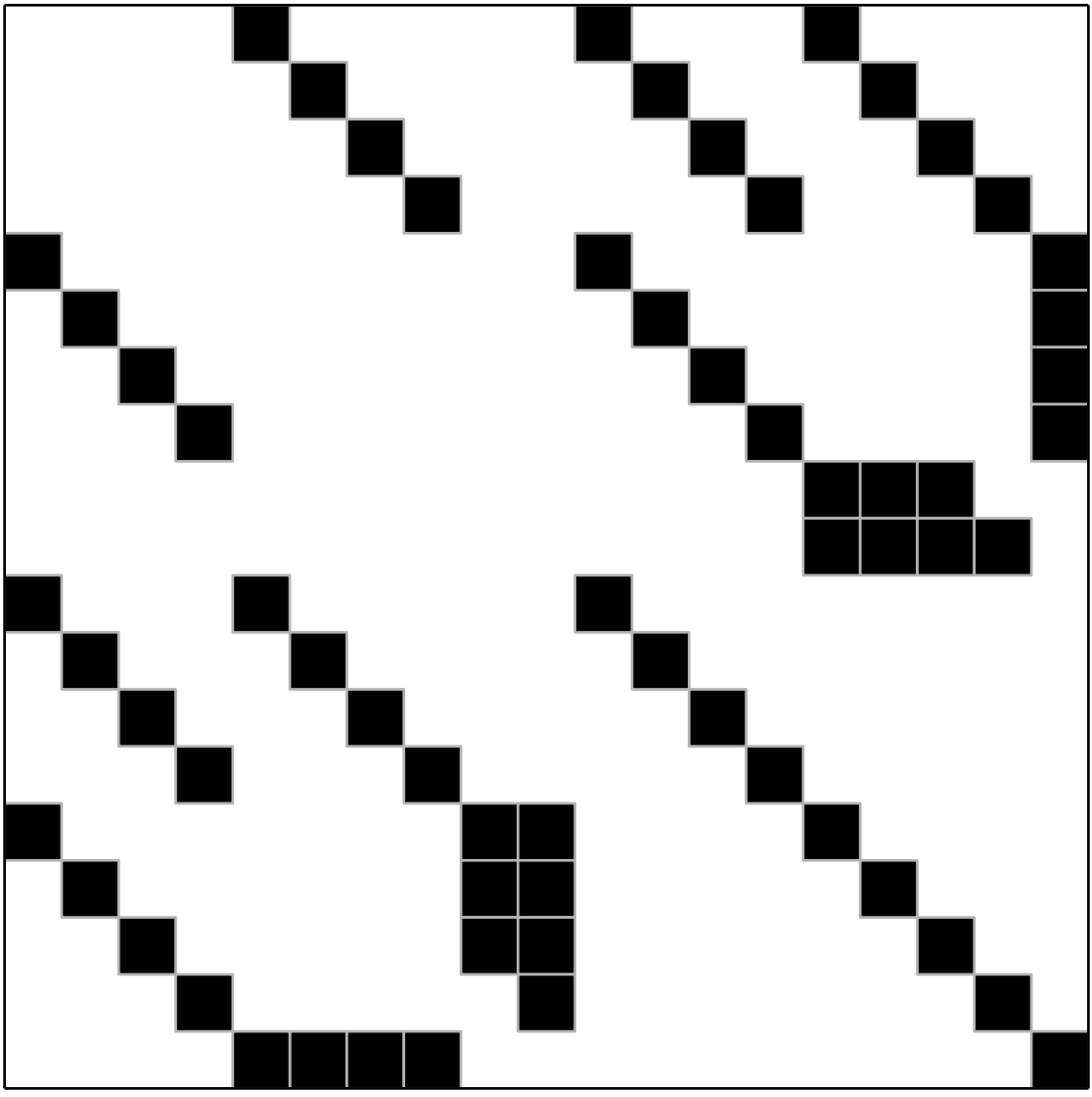
lib1_ex9_1_2-09 19x19 (63) con: 9, var: 10

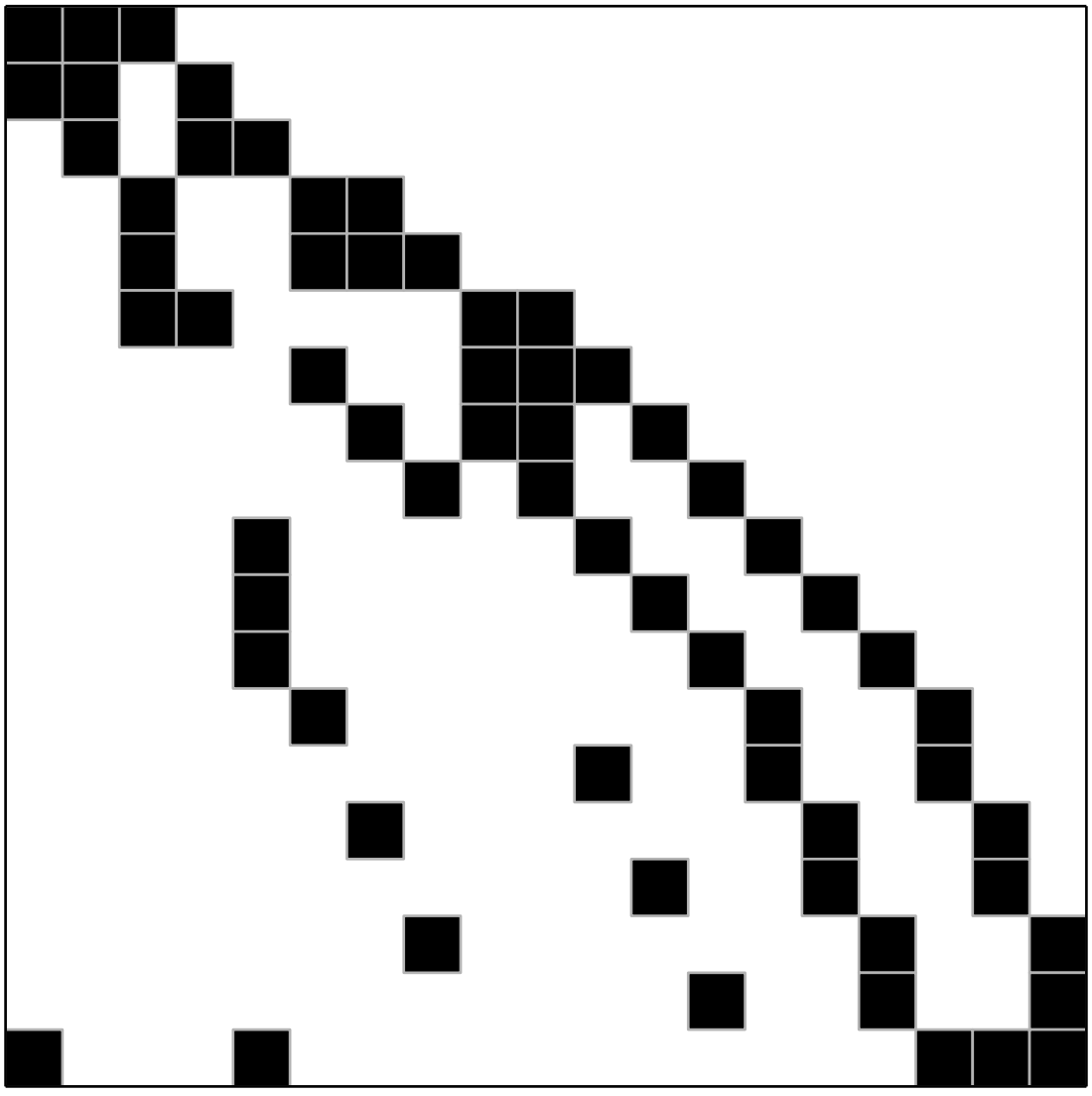


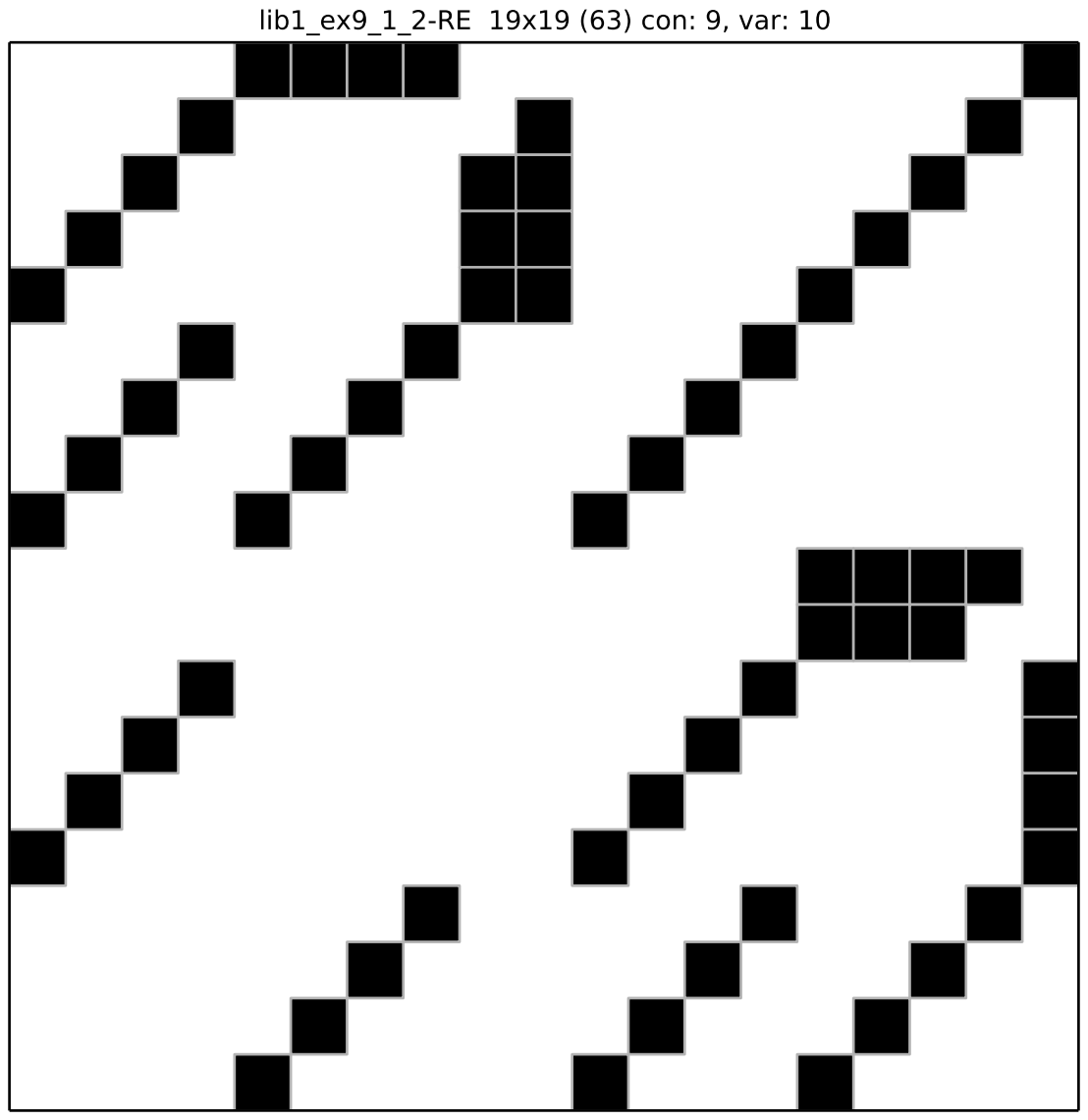
lib1_ex9_1_2-09, cost: 4, diff: 4, explored: 25, time: 0.01s



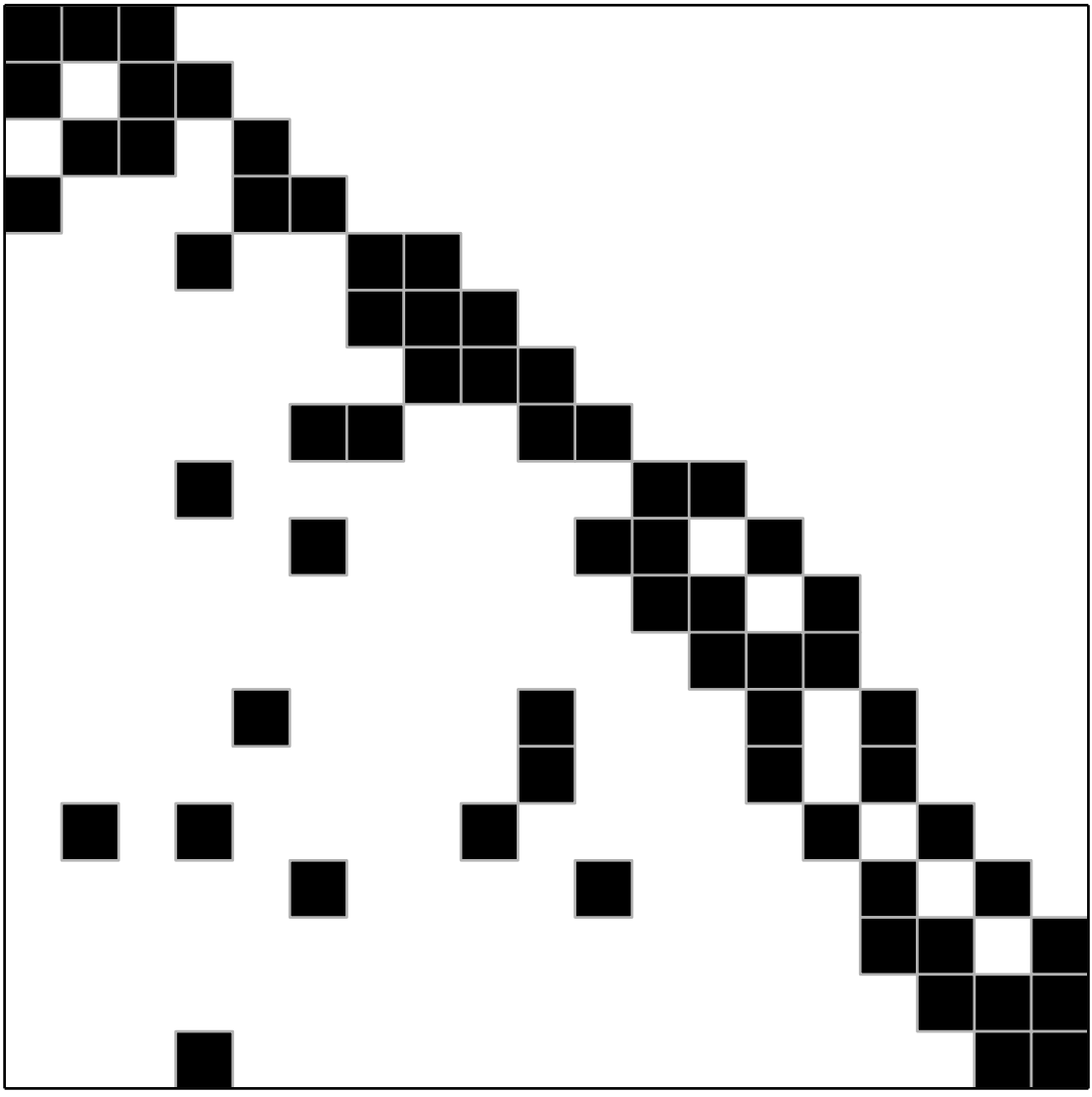
lib1_ex9_1_2-IN 19x19 (63) con: 9, var: 10



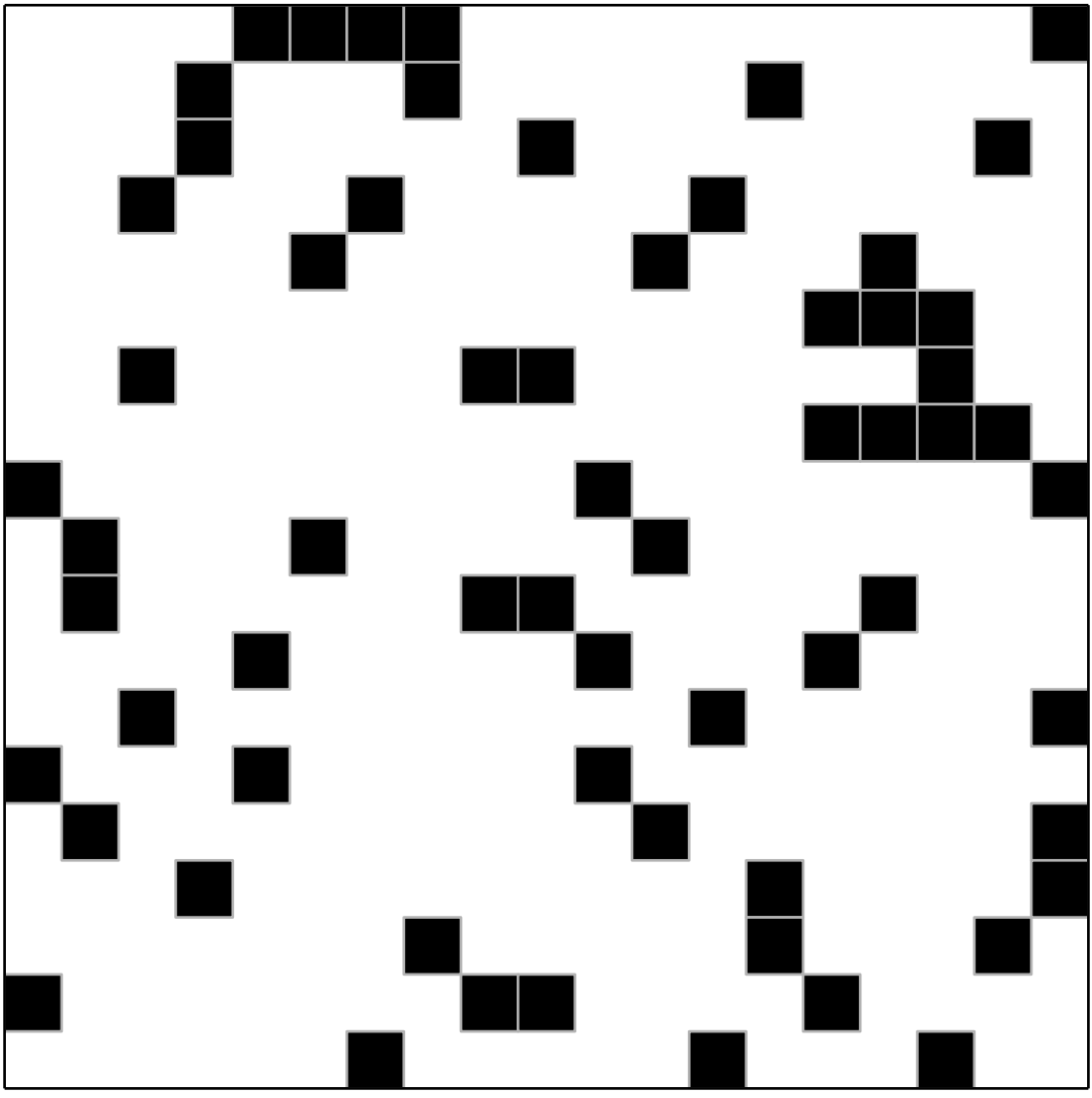

lib1_ex9_1_2-IN, cost: 4, diff: 4, explored: 28, time: 0.01s


lib1_ex9_1_2-RE 19x19 (63) con: 9, var: 10

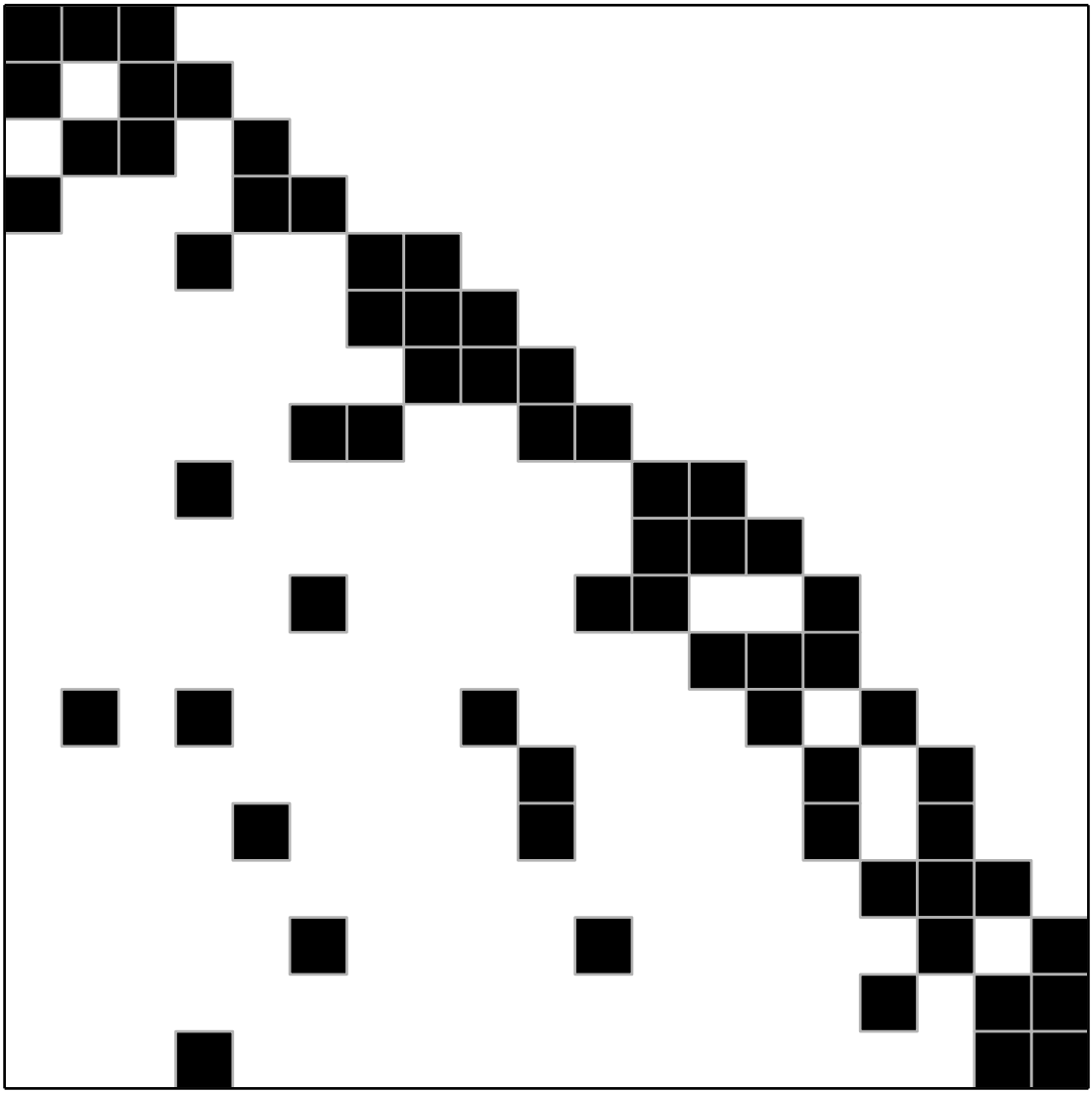
lib1_ex9_1_2-RE, cost: 4, diff: 4, explored: 27, time: 0.01s



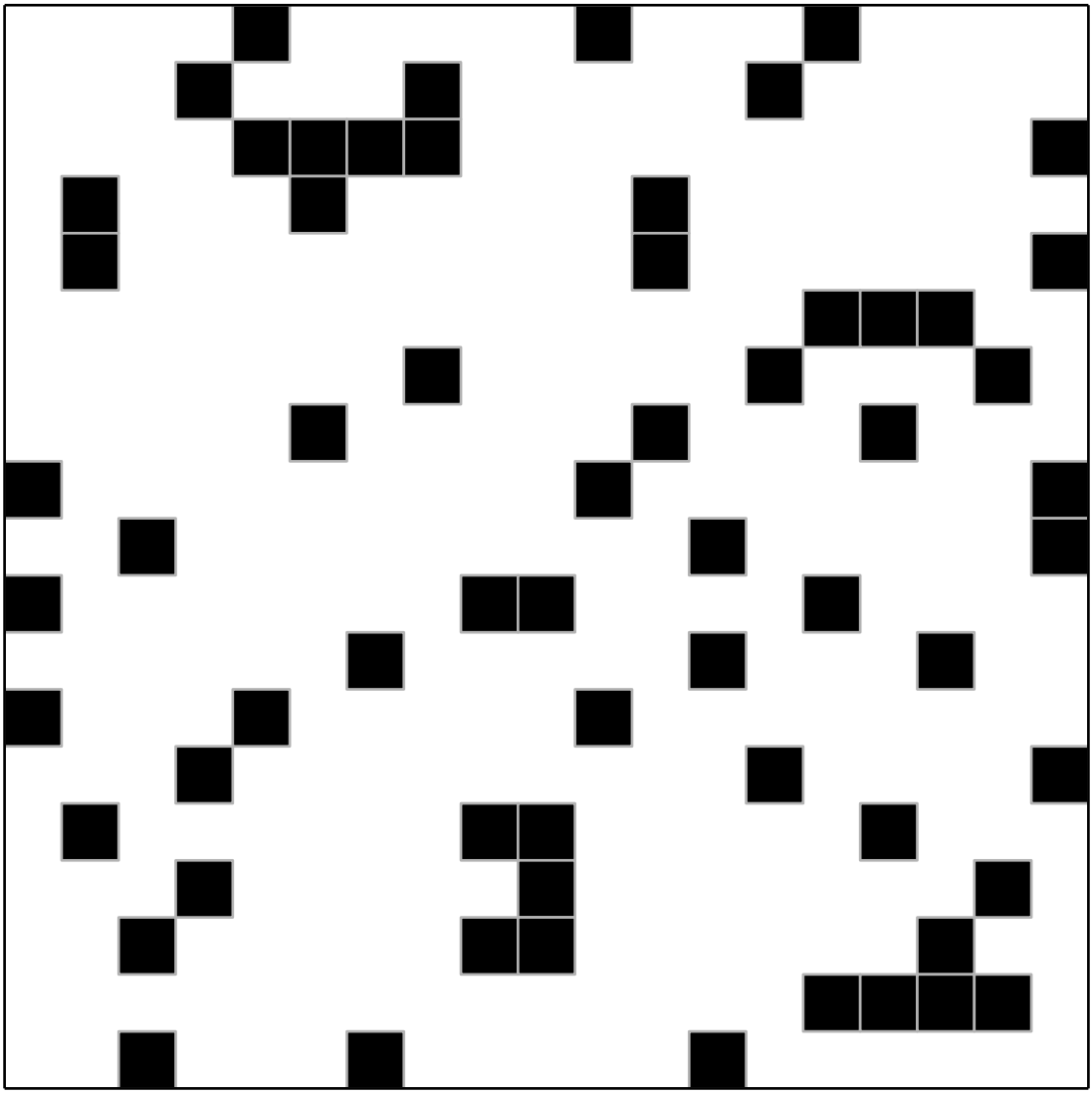
lib1_ex9_1_4-00 19x19 (63) con: 9, var: 10

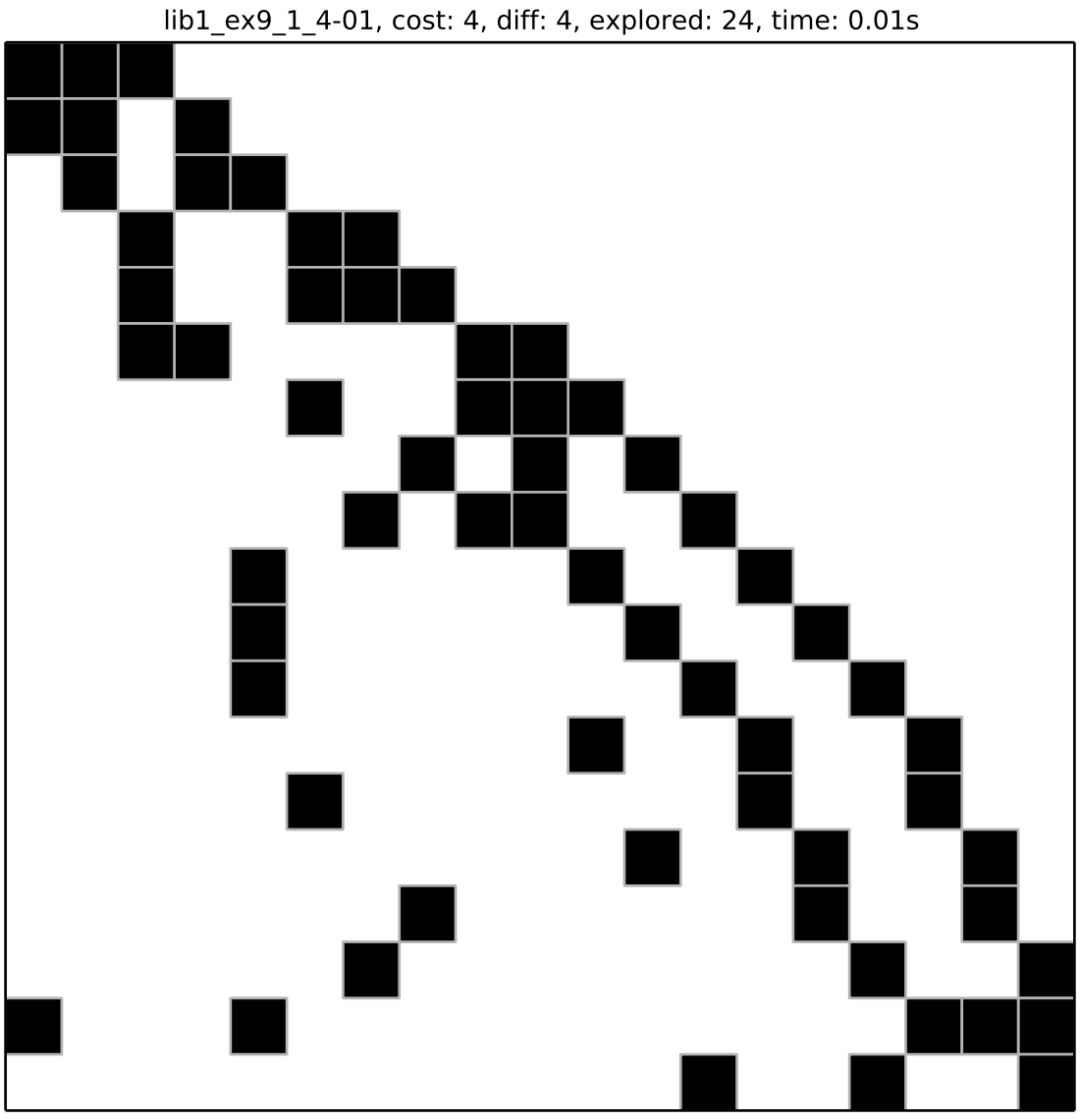


lib1_ex9_1_4-00, cost: 4, diff: 4, explored: 25, time: 0.01s

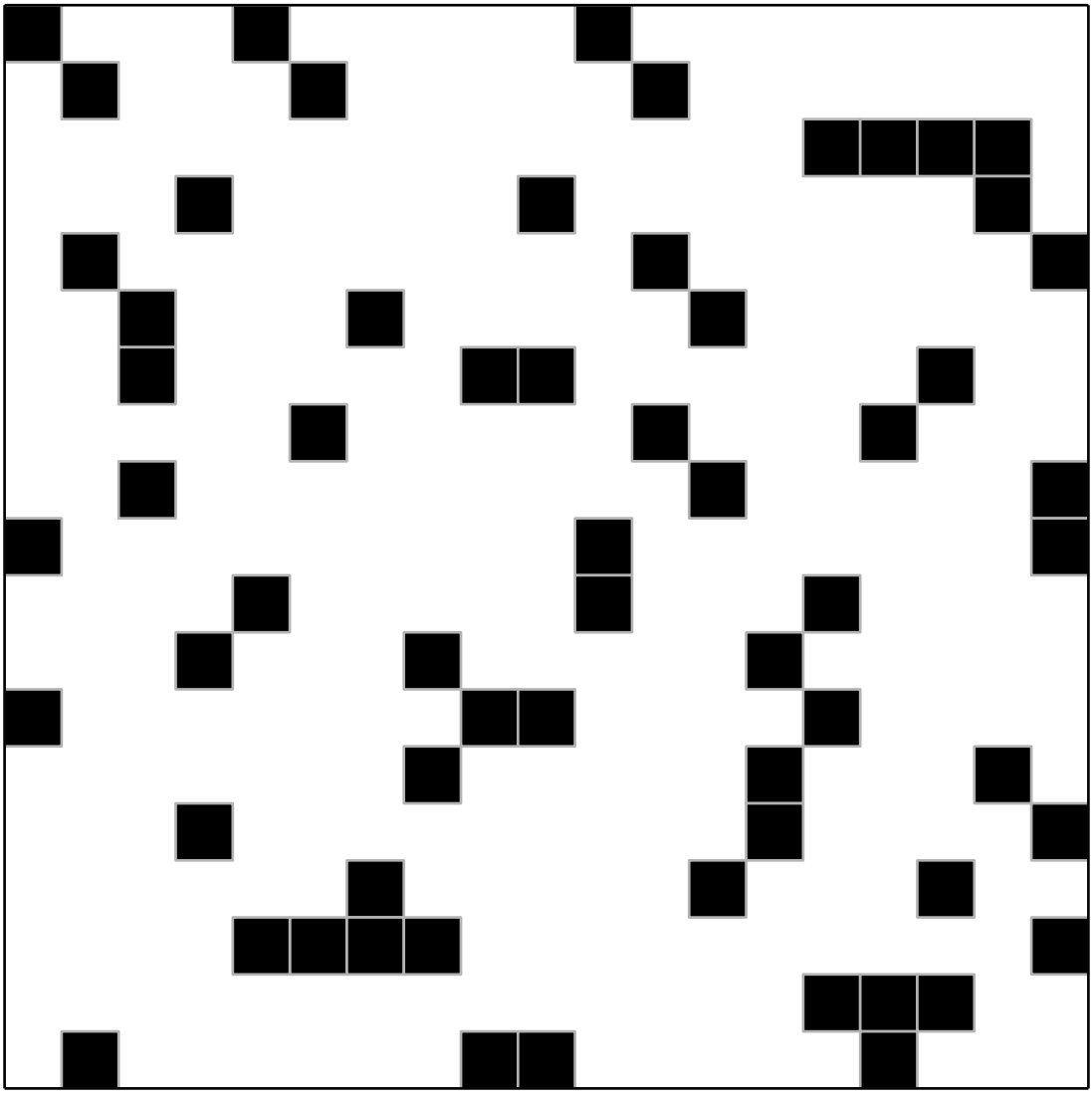


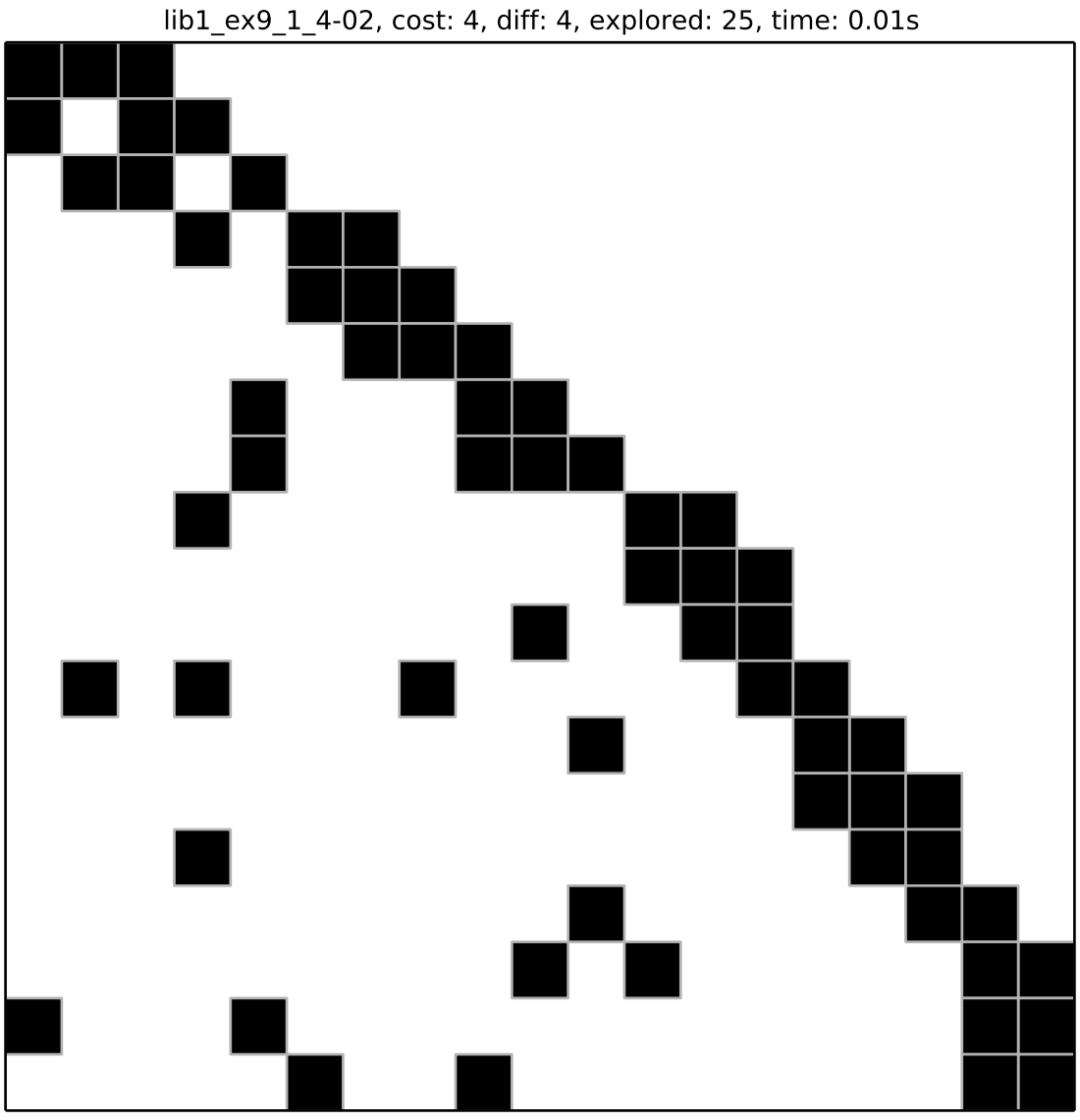
lib1_ex9_1_4-01 19x19 (63) con: 9, var: 10

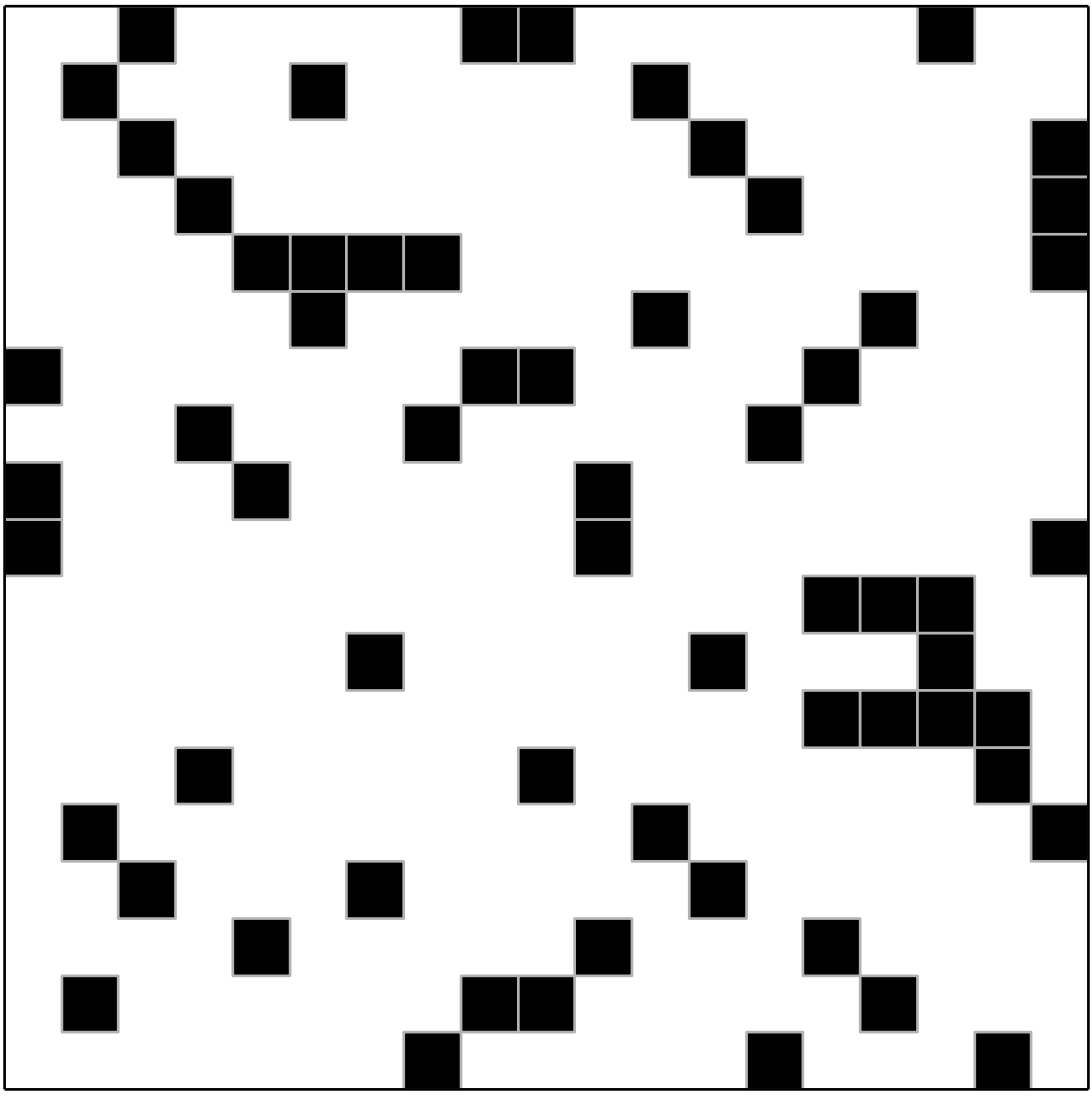


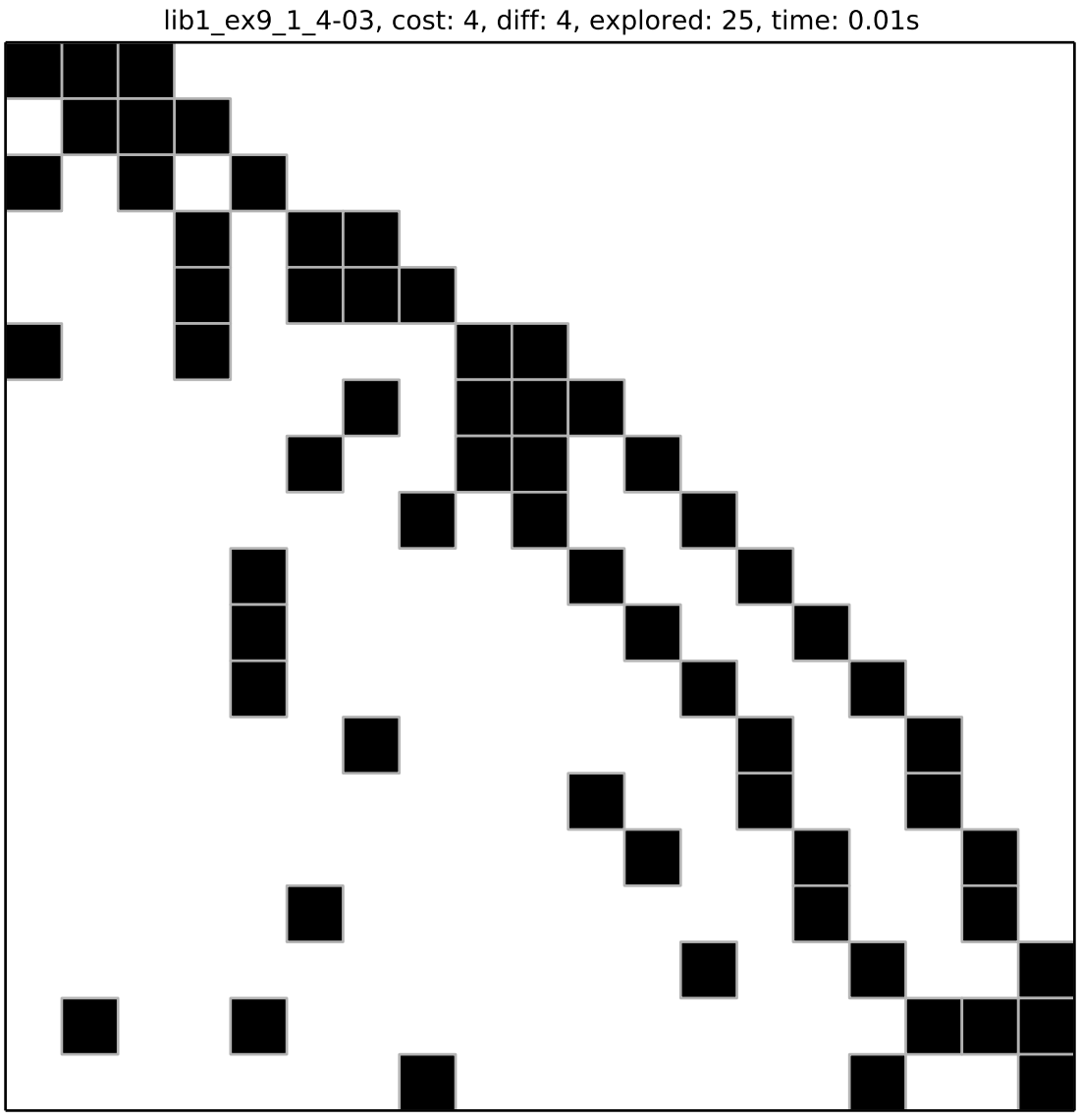

lib1_ex9_1_4-01, cost: 4, diff: 4, explored: 24, time: 0.01s

lib1_ex9_1_4-02 19x19 (63) con: 9, var: 10

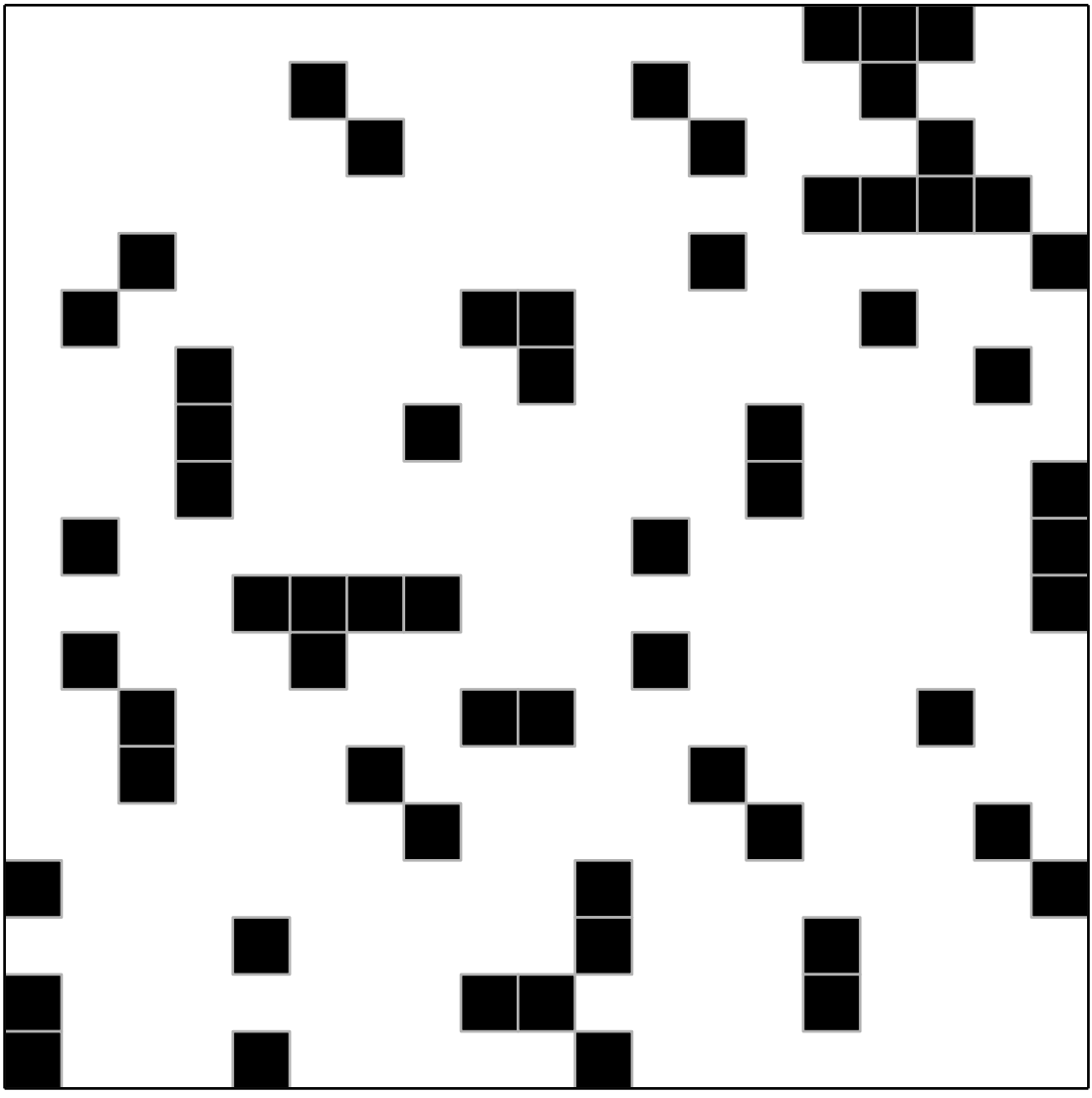


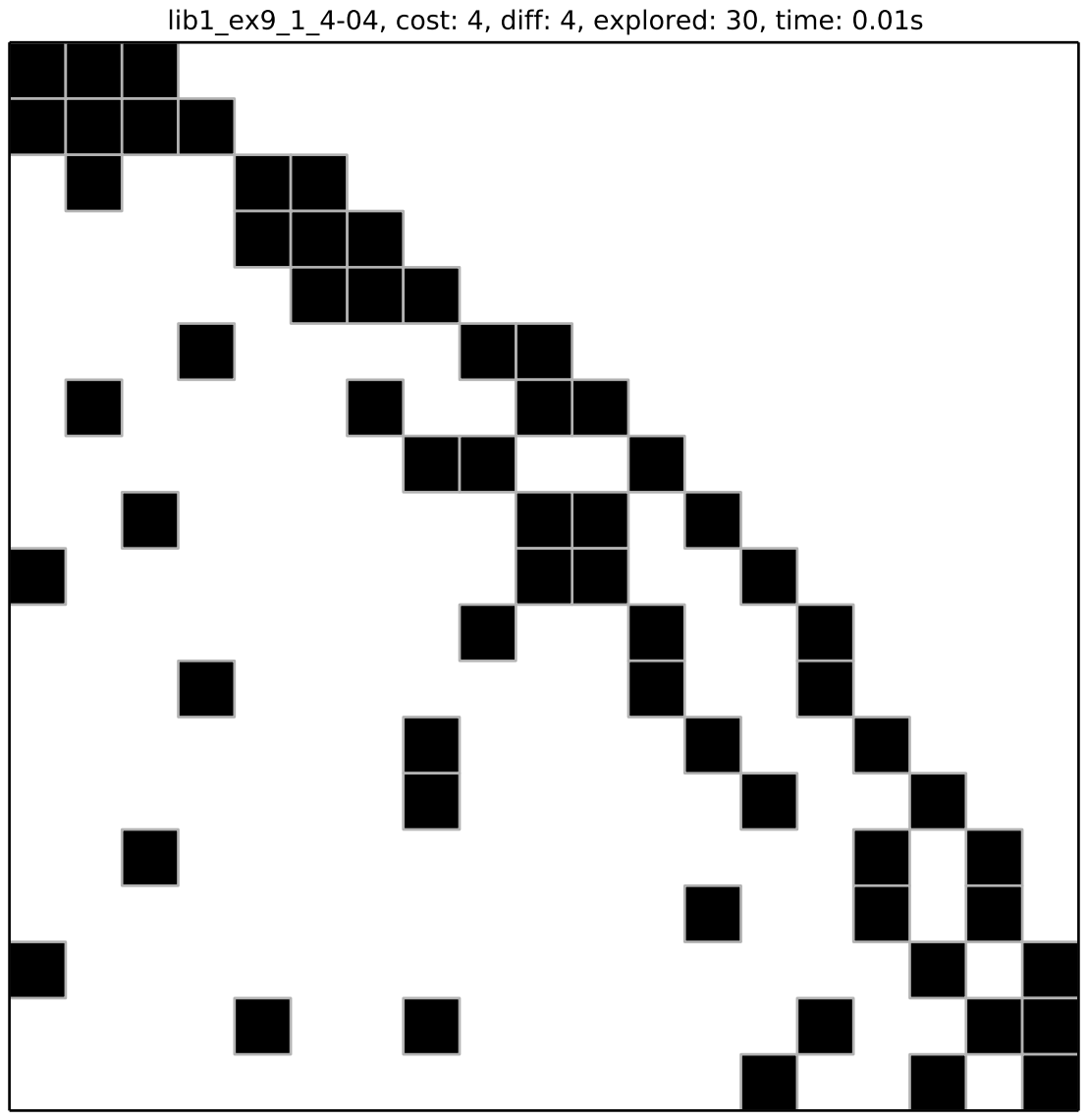

lib1_ex9_1_4-02, cost: 4, diff: 4, explored: 25, time: 0.01s

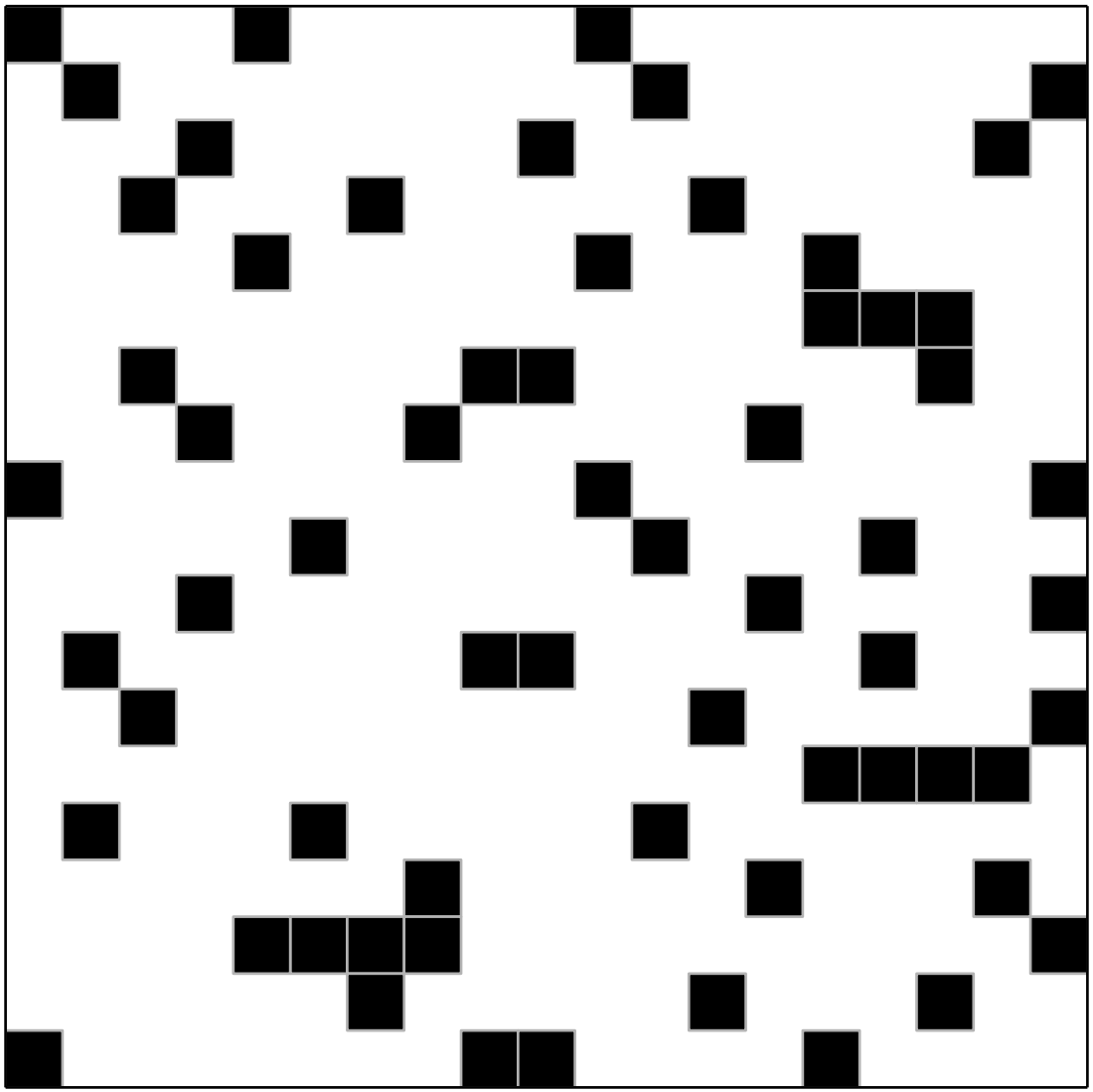

lib1_ex9_1_4-03 19x19 (63) con: 9, var: 10


lib1_ex9_1_4-03, cost: 4, diff: 4, explored: 25, time: 0.01s

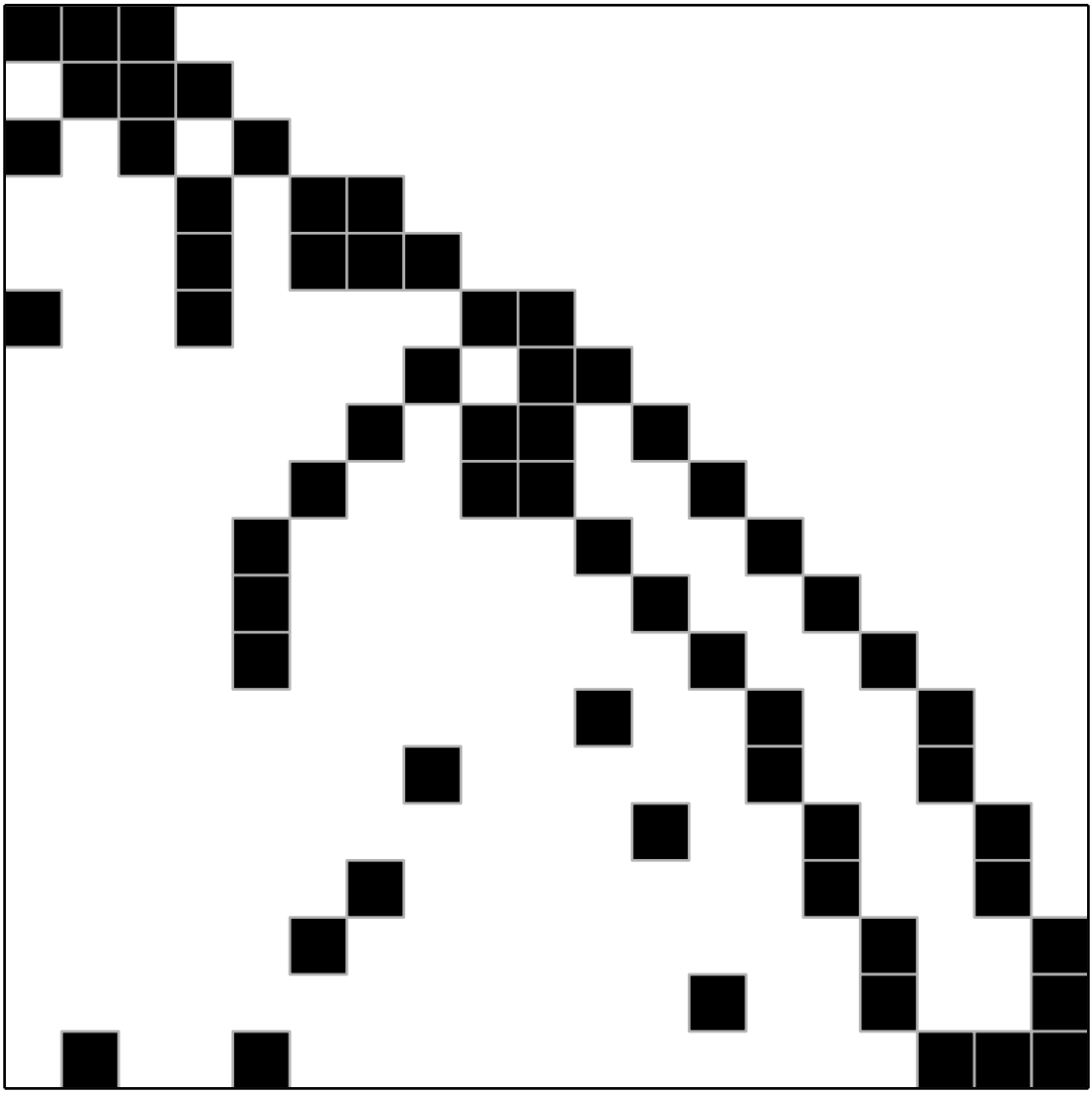
lib1_ex9_1_4-04 19x19 (63) con: 9, var: 10



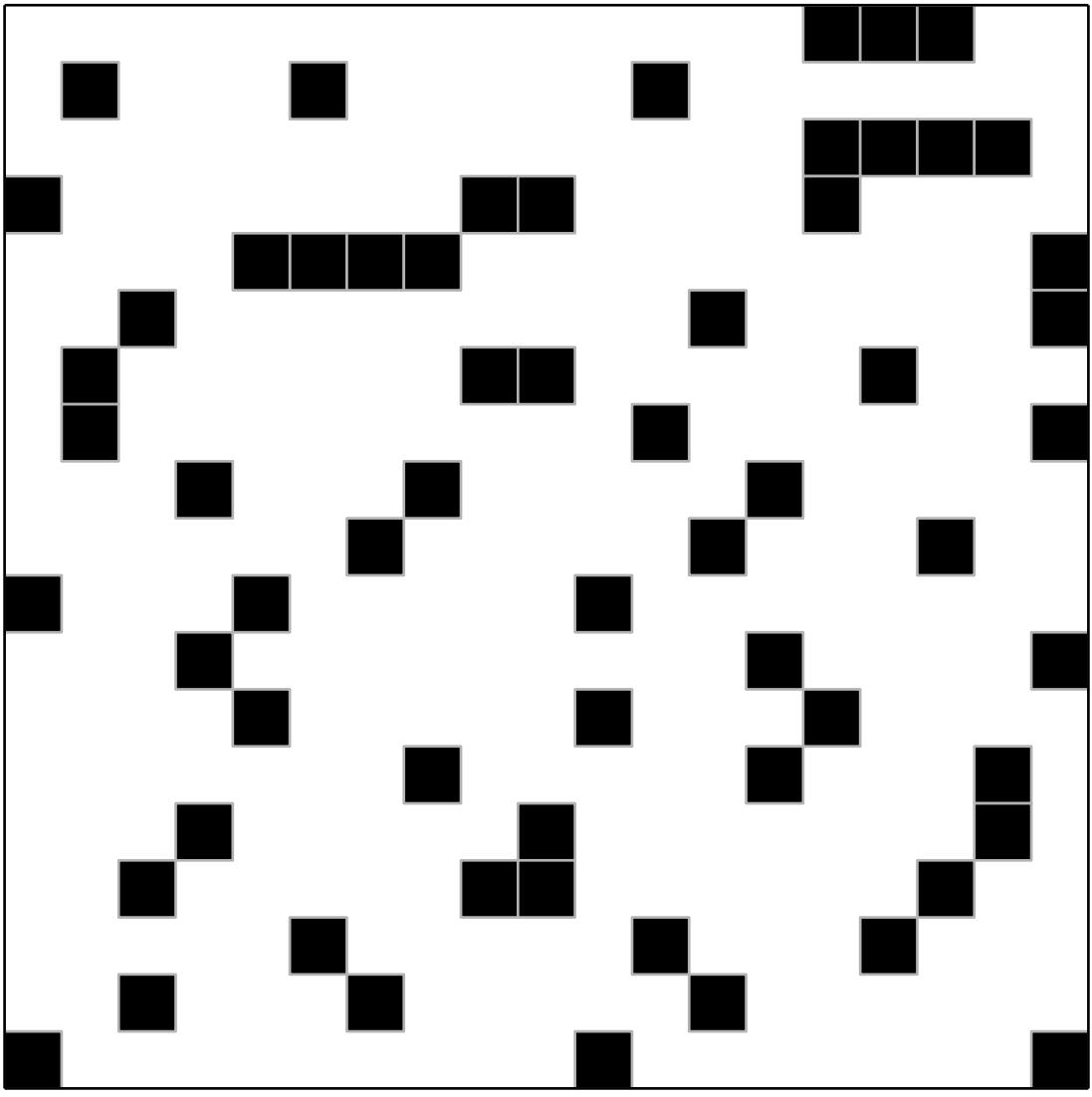

lib1_ex9_1_4-04, cost: 4, diff: 4, explored: 30, time: 0.01s


lib1_ex9_1_4-05 19x19 (63) con: 9, var: 10

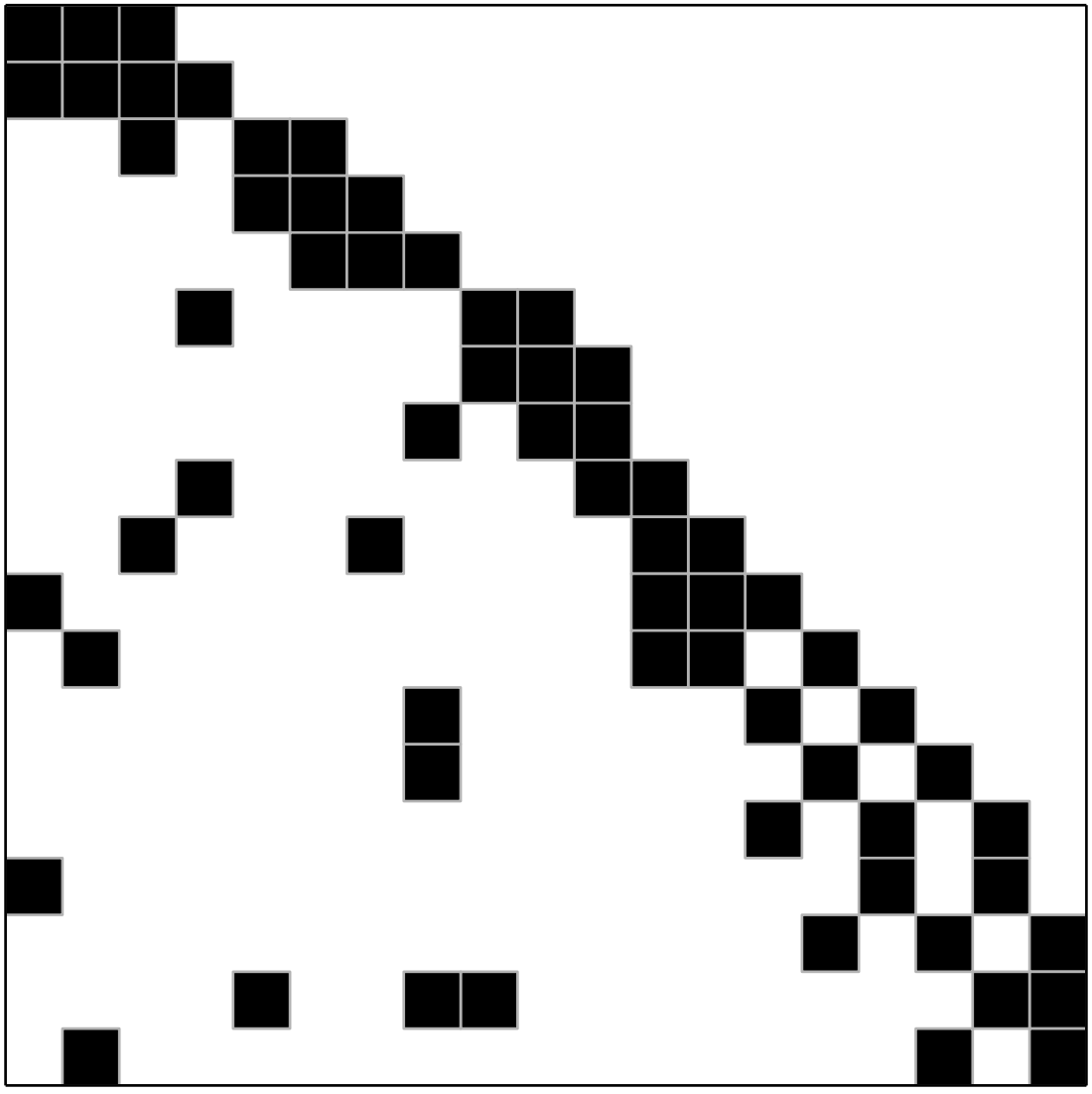
lib1_ex9_1_4-05, cost: 4, diff: 4, explored: 27, time: 0.01s

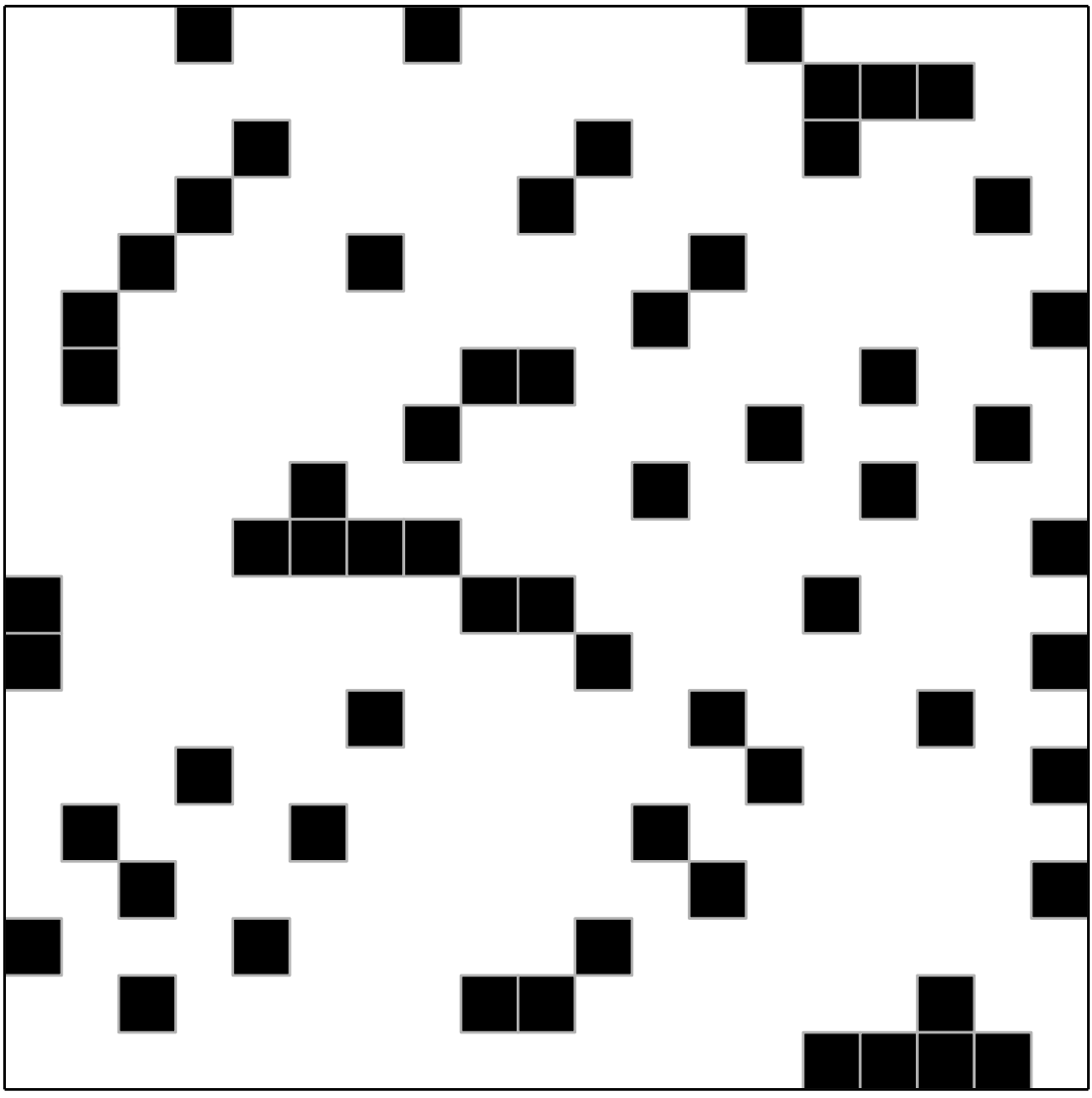


lib1_ex9_1_4-06 19x19 (63) con: 9, var: 10

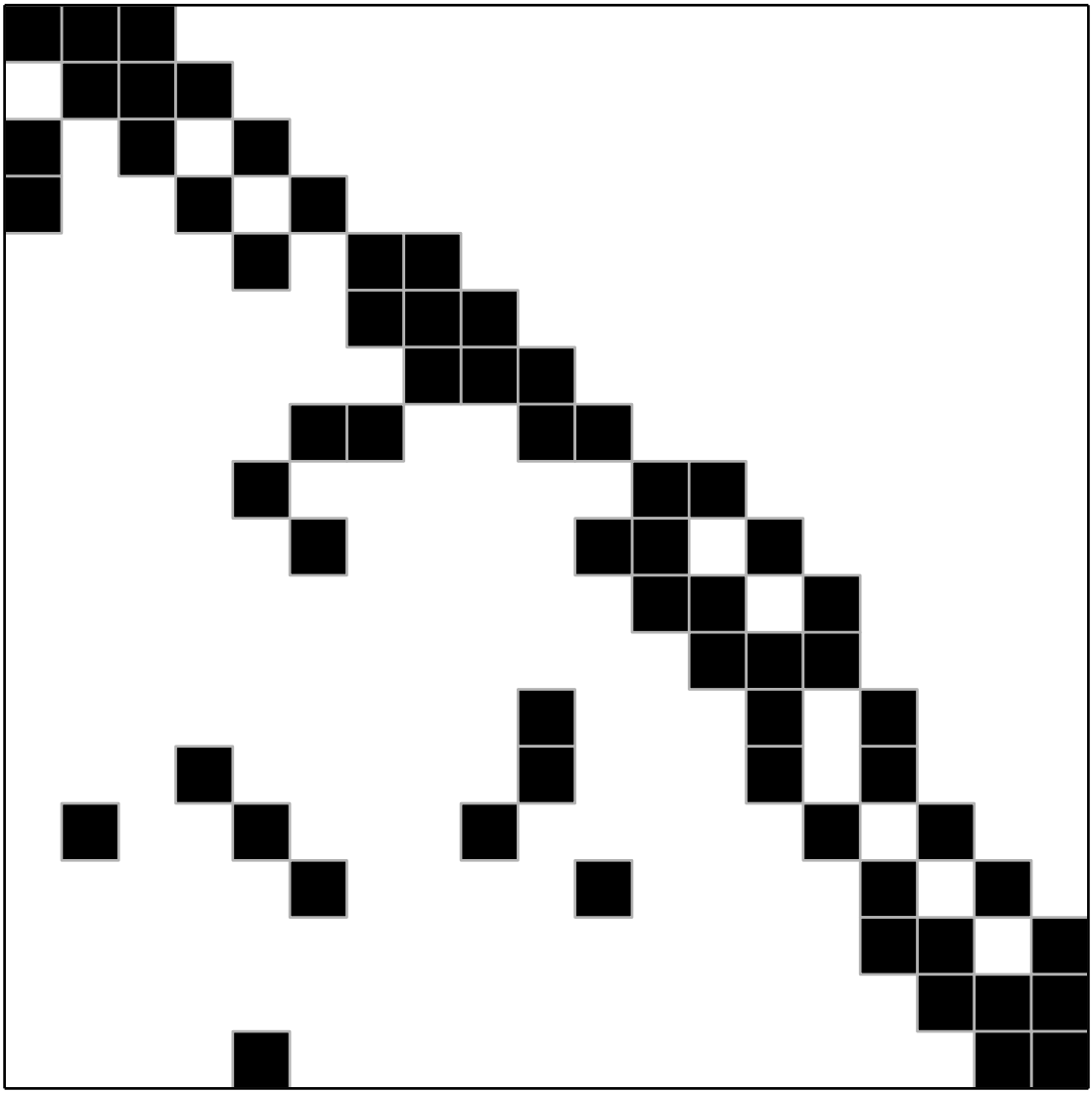


lib1_ex9_1_4-06, cost: 4, diff: 4, explored: 25, time: 0.01s

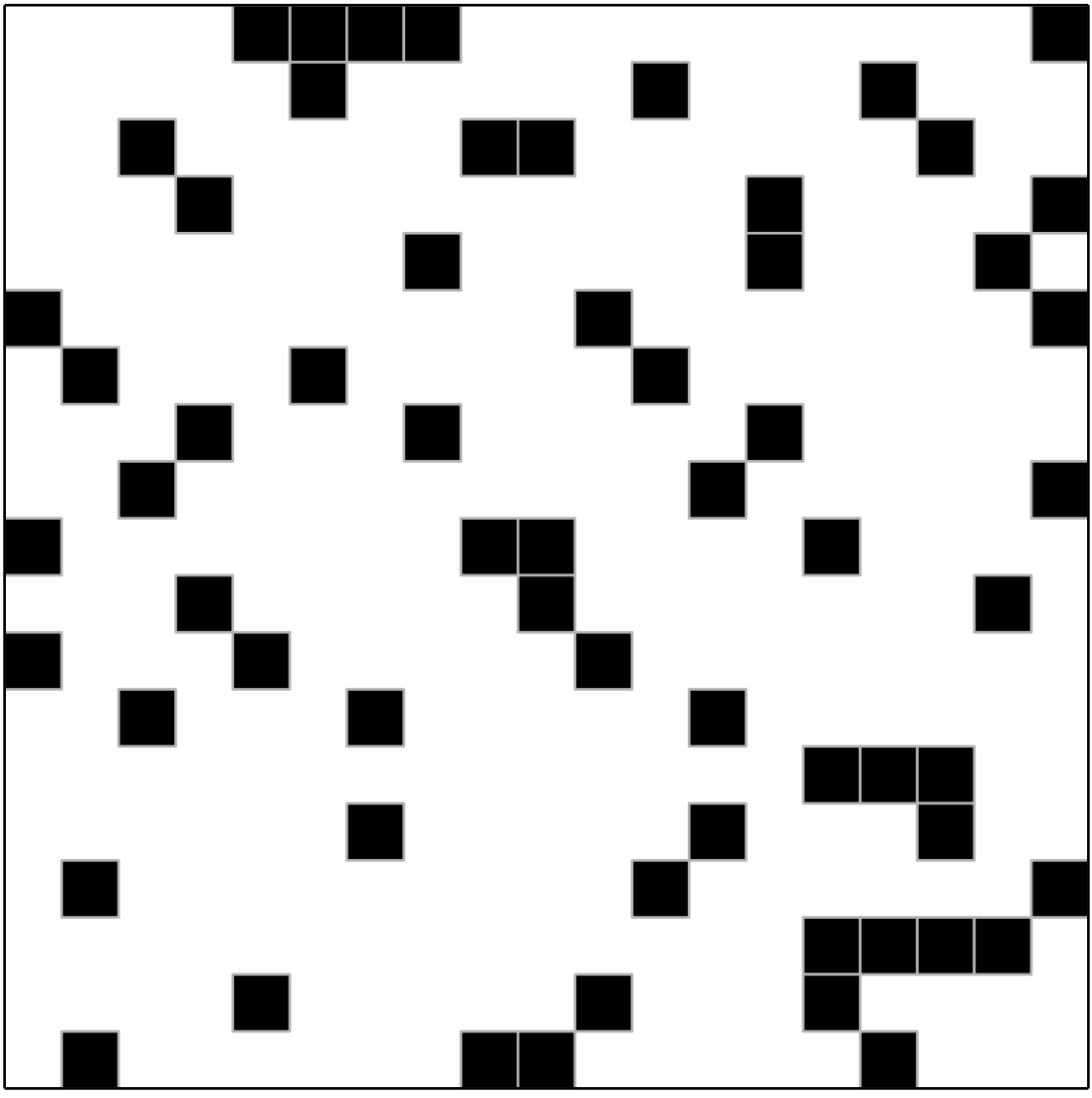



lib1_ex9_1_4-07 19x19 (63) con: 9, var: 10

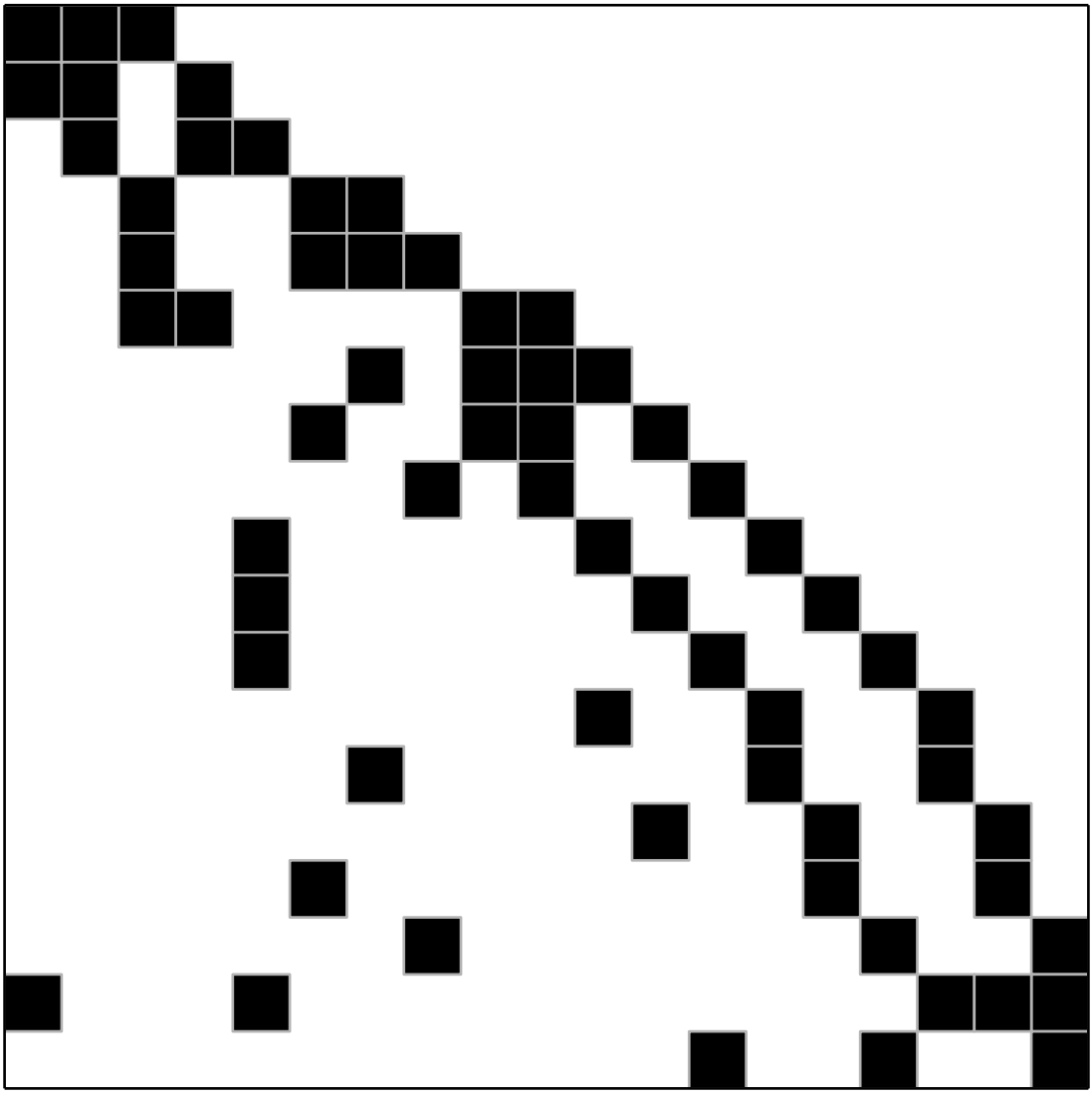
lib1_ex9_1_4-07, cost: 4, diff: 4, explored: 27, time: 0.01s



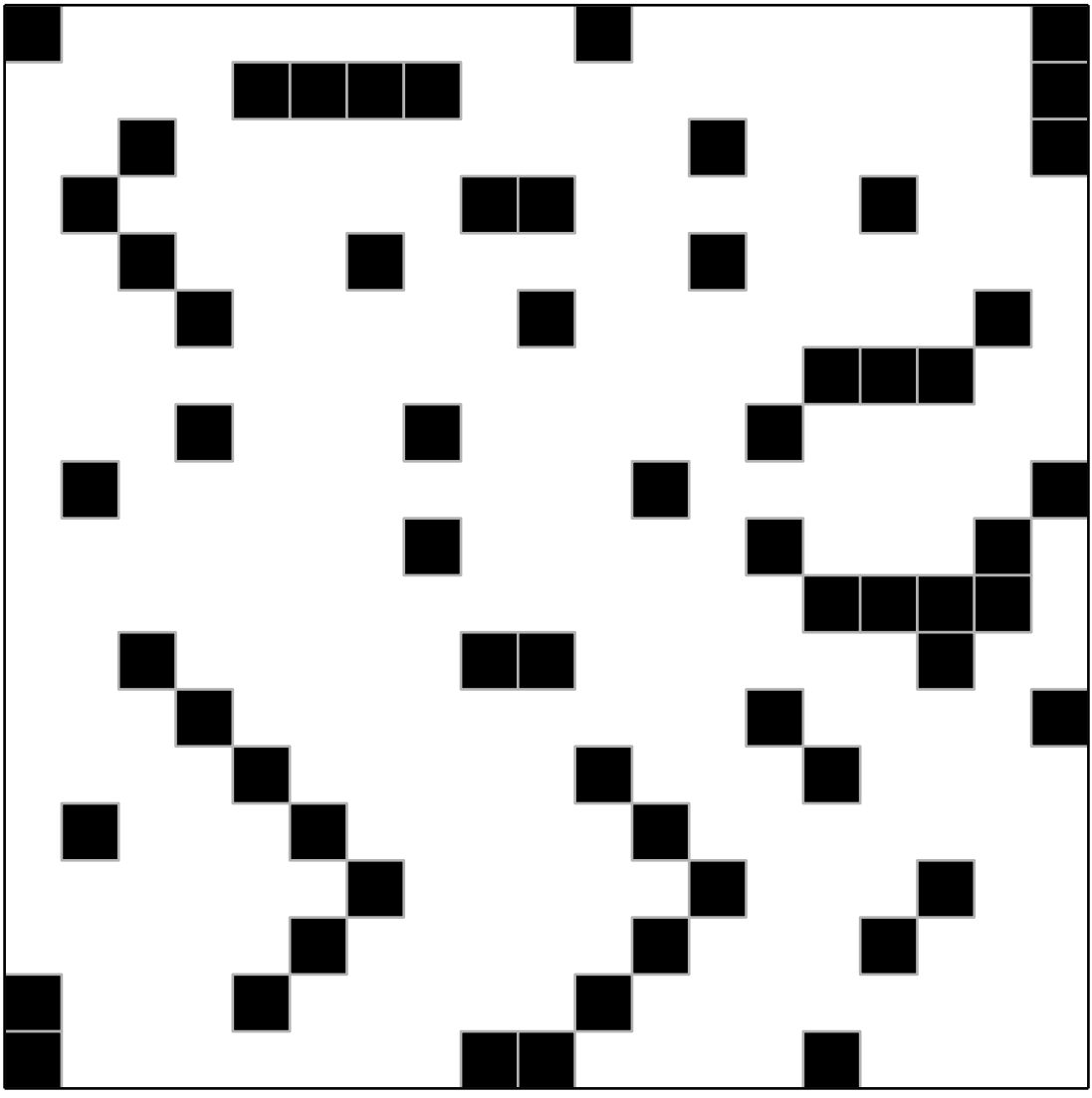
lib1_ex9_1_4-08 19x19 (63) con: 9, var: 10

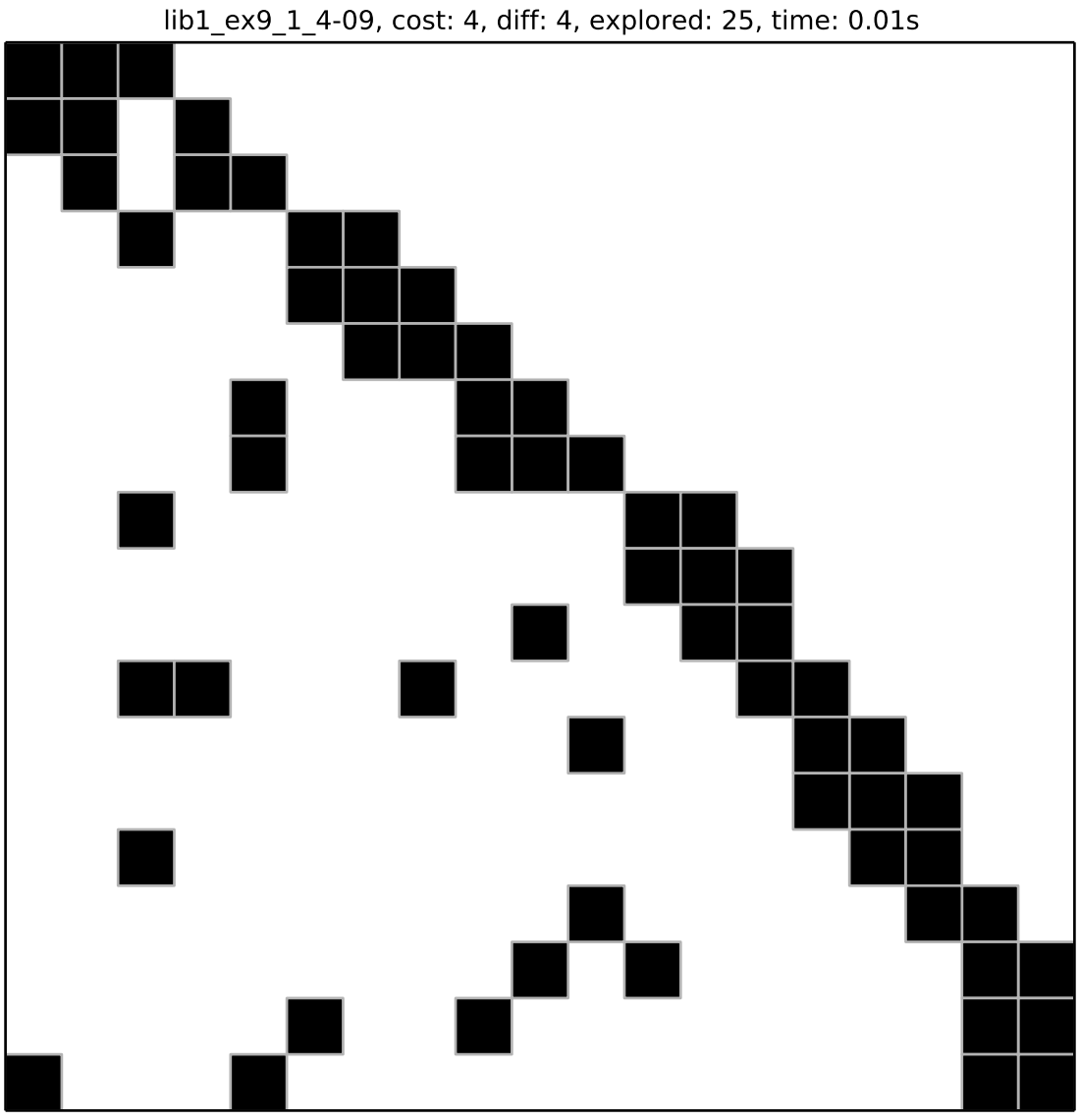


lib1_ex9_1_4-08, cost: 4, diff: 4, explored: 24, time: 0.01s

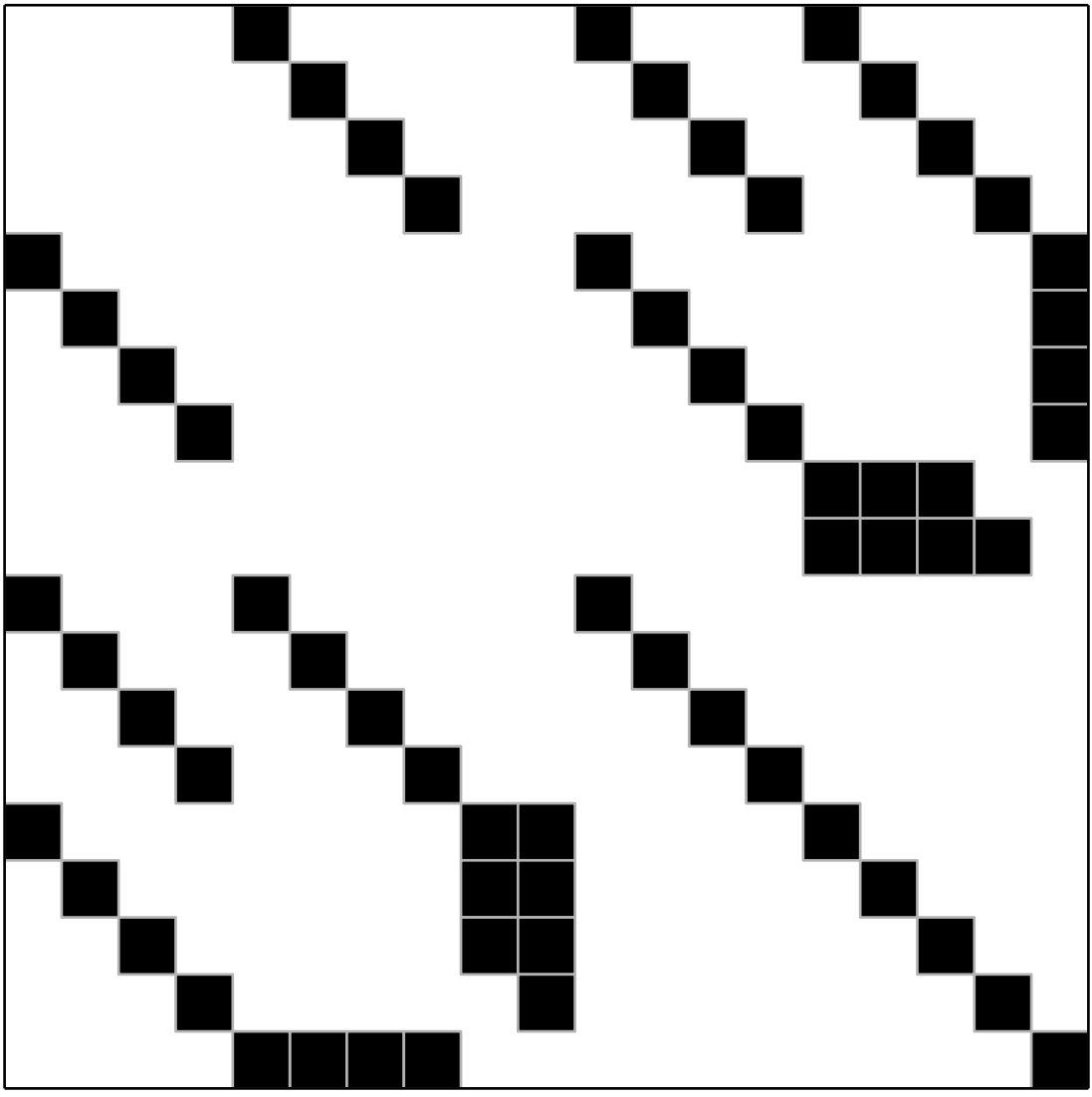


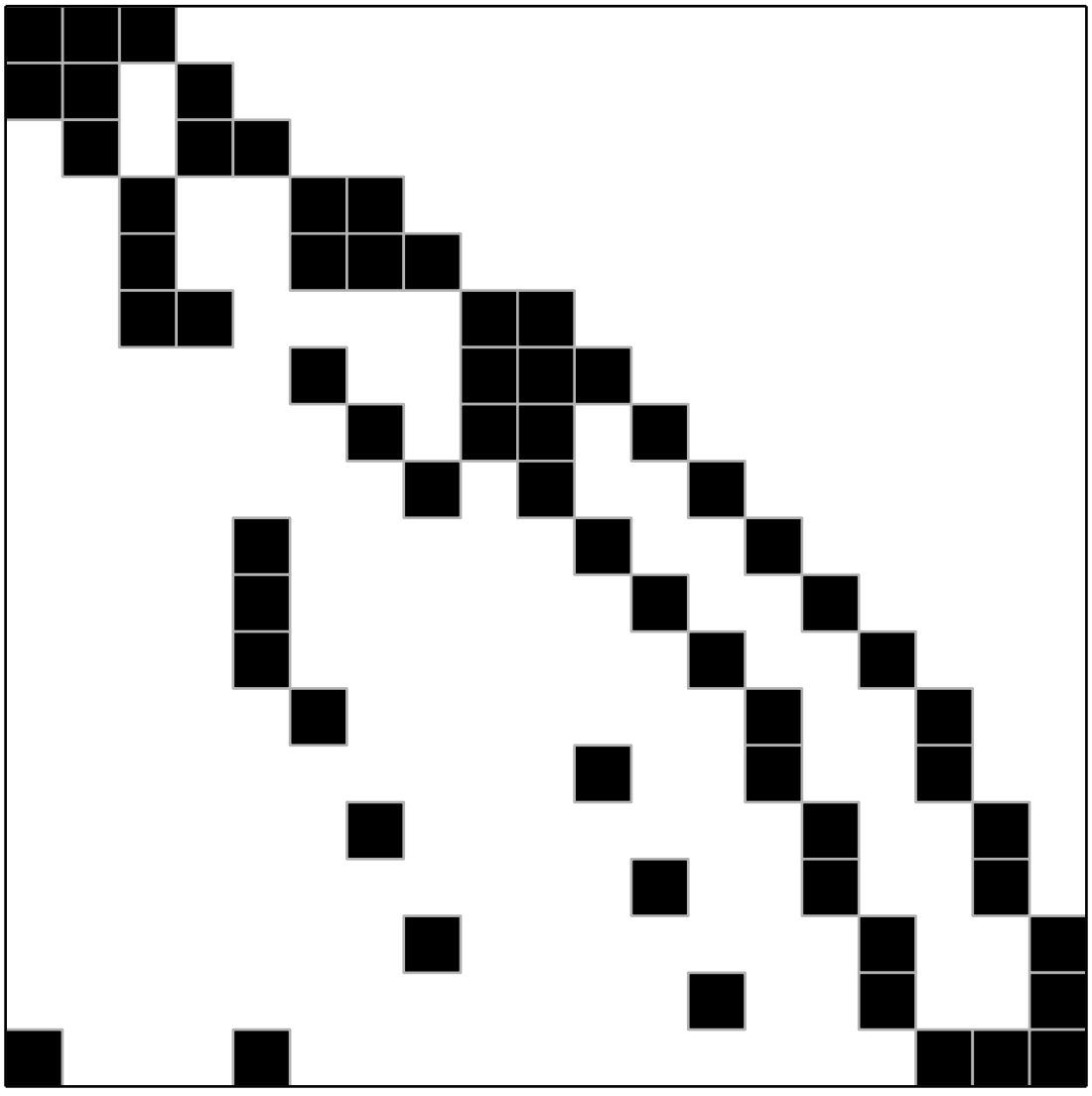
lib1_ex9_1_4-09 19x19 (63) con: 9, var: 10



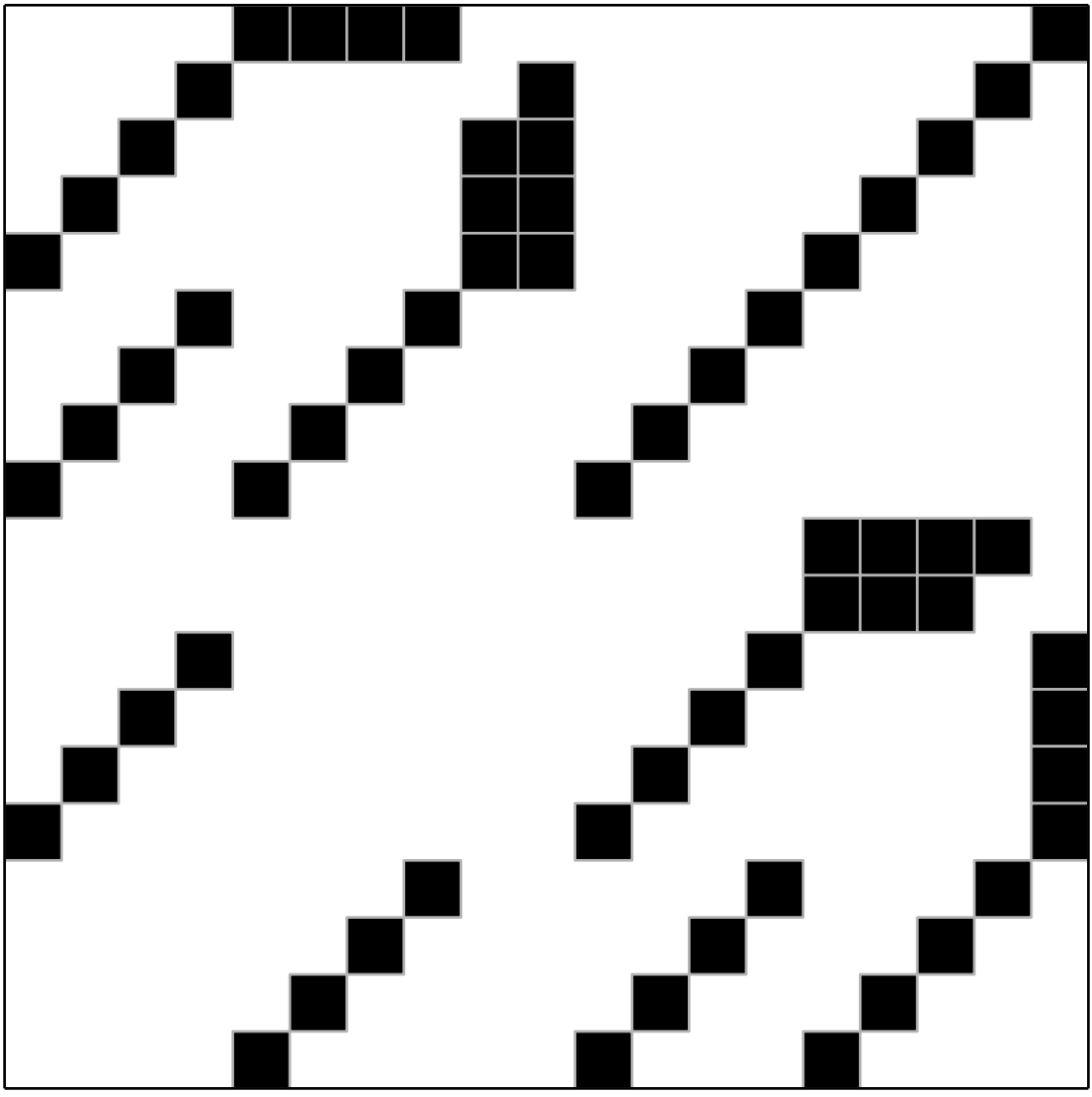

lib1_ex9_1_4-09, cost: 4, diff: 4, explored: 25, time: 0.01s

lib1_ex9_1_4-IN 19x19 (63) con: 9, var: 10

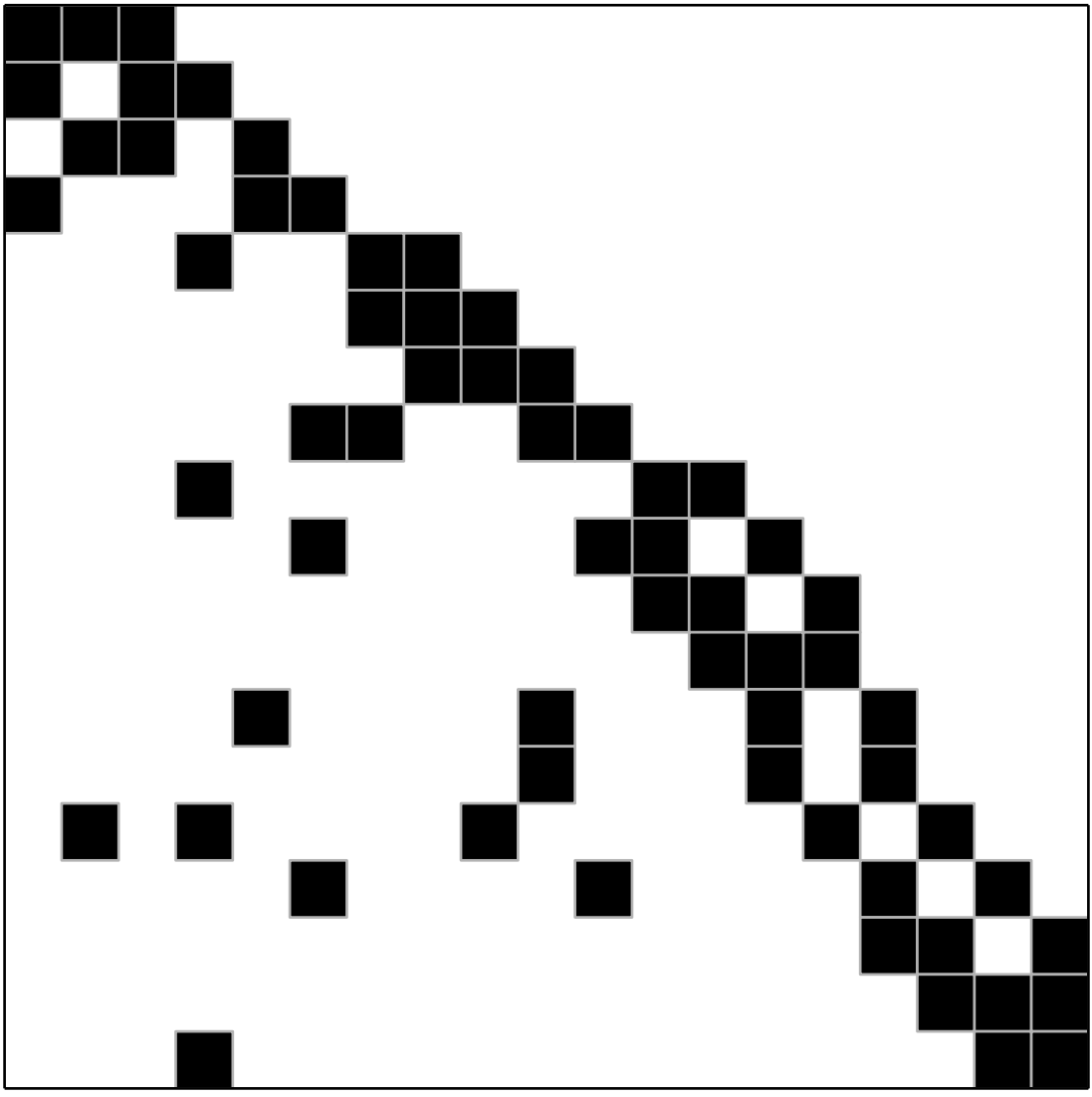



lib1_ex9_1_4-IN, cost: 4, diff: 4, explored: 28, time: 0.01s

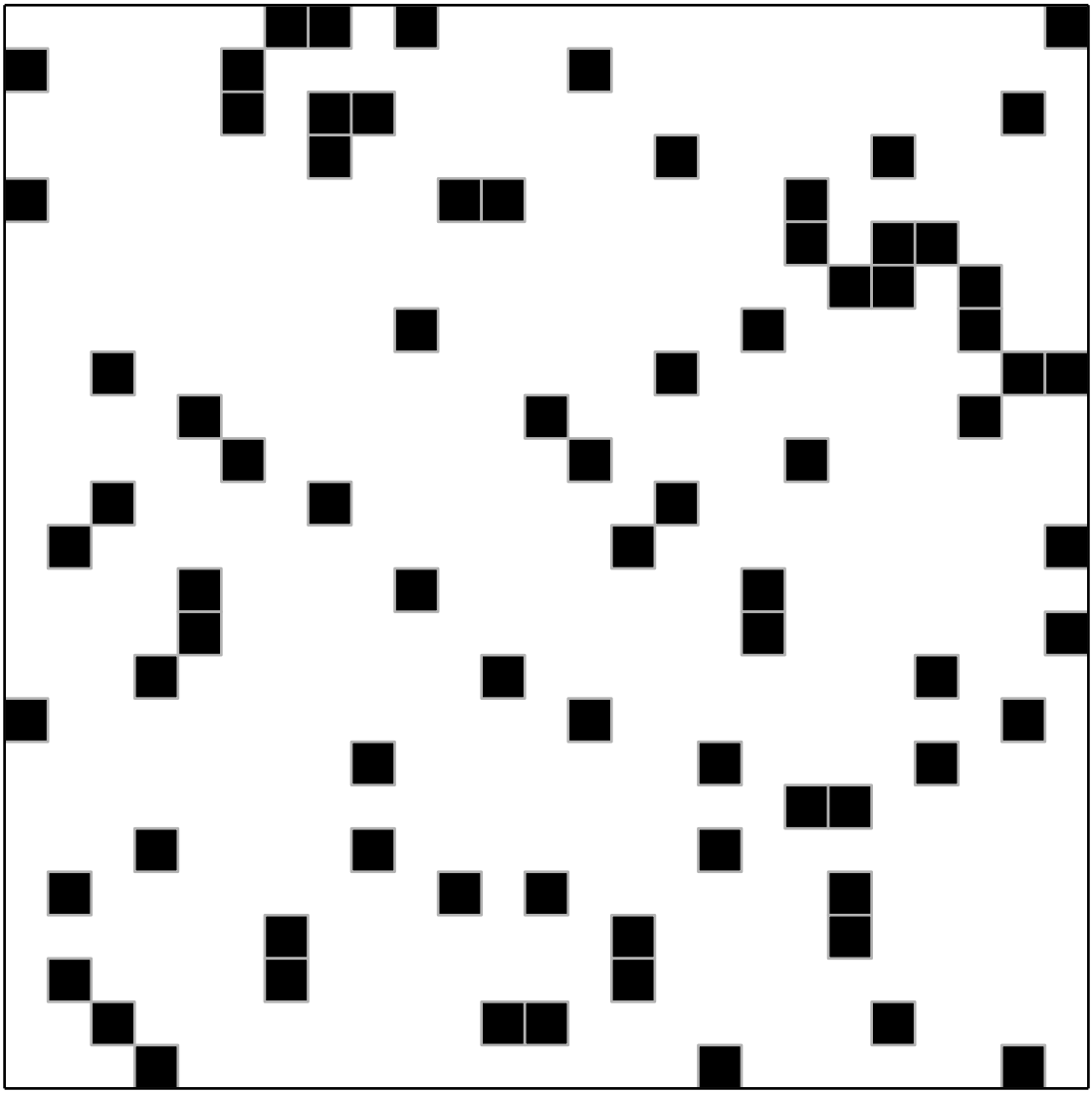
lib1_ex9_1_4-RE 19x19 (63) con: 9, var: 10



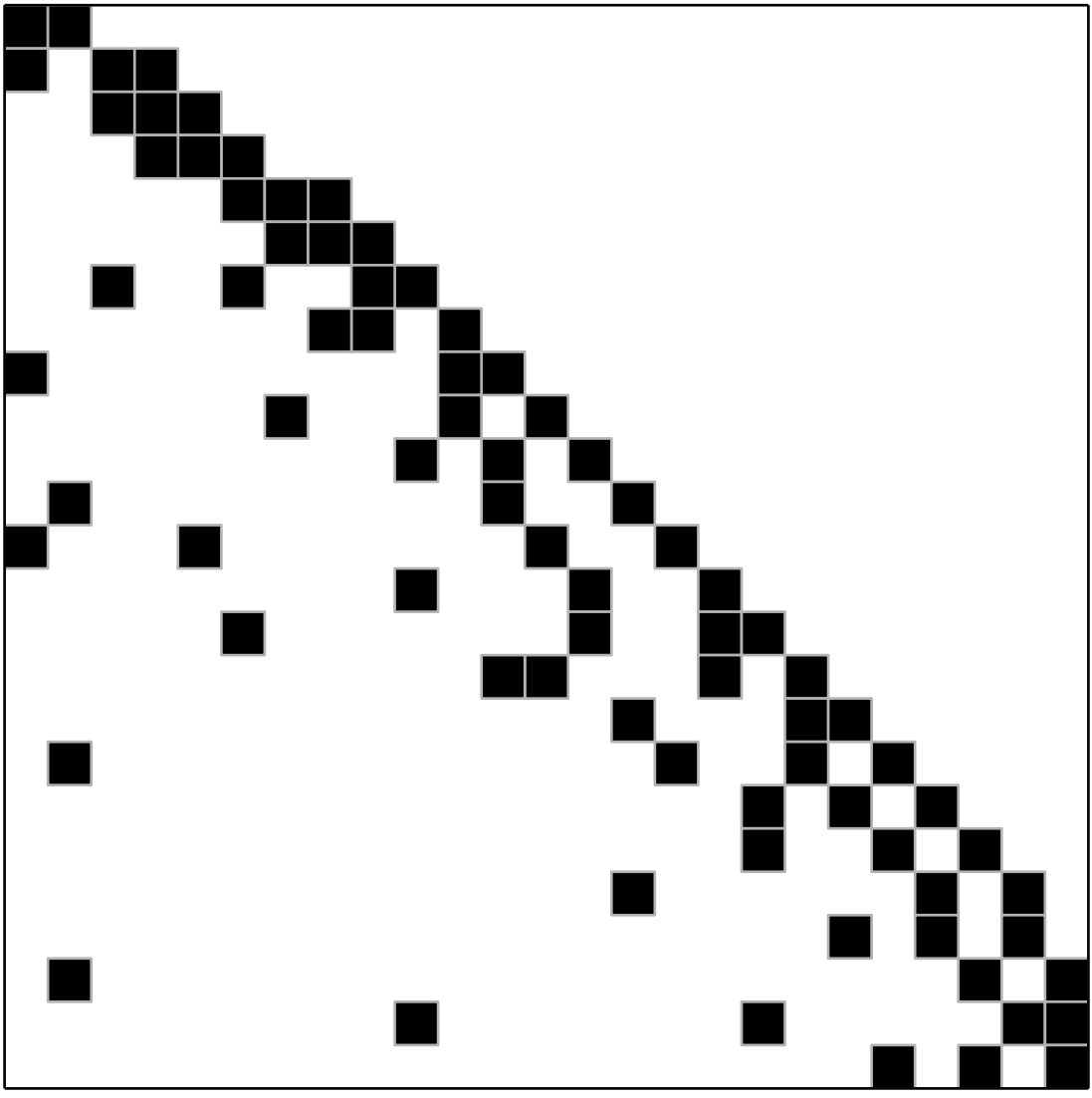
lib1_ex9_1_4-RE, cost: 4, diff: 4, explored: 27, time: 0.01s



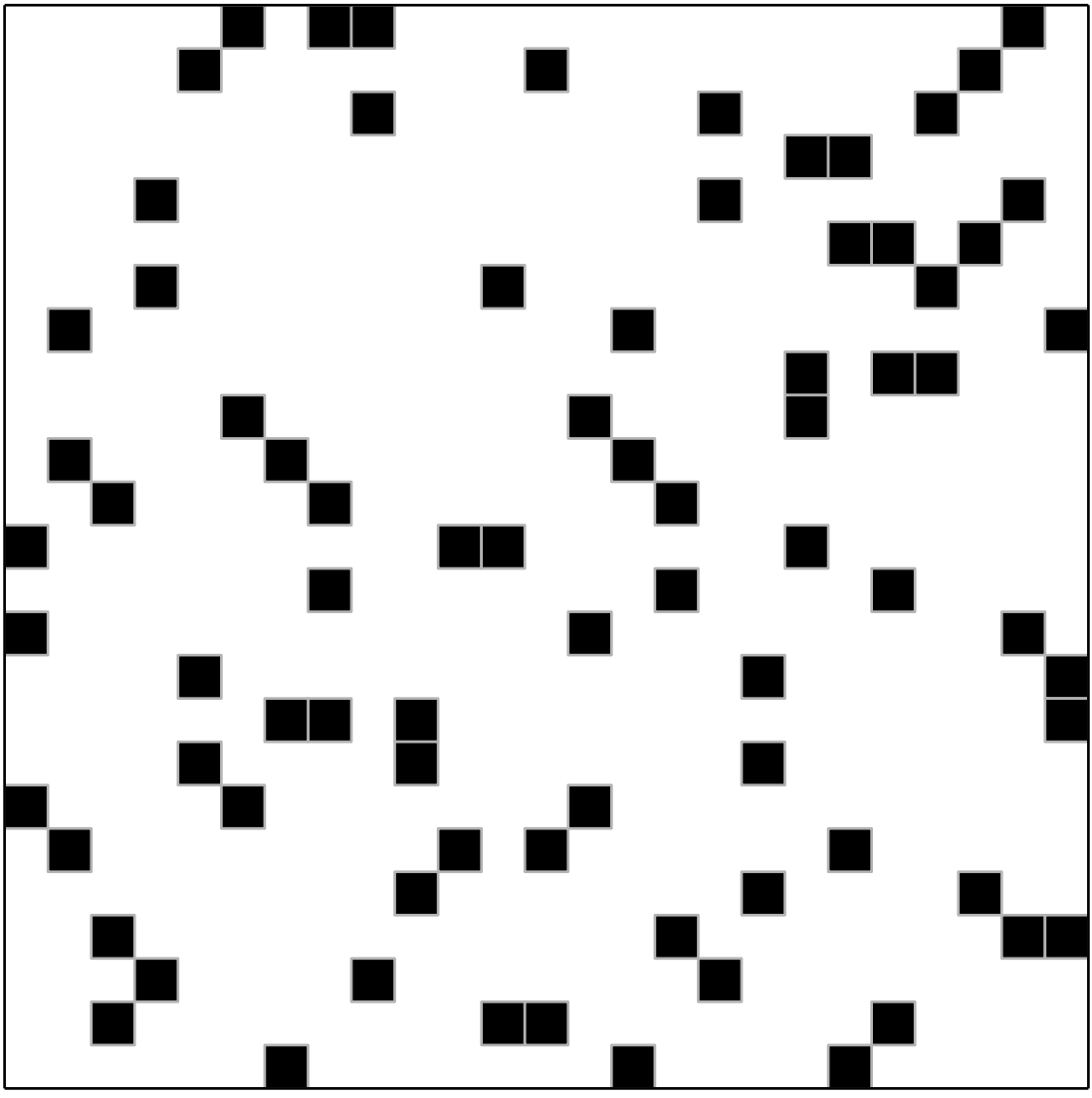
lib1_ex9_1_5-00 25x25 (80) con: 12, var: 13

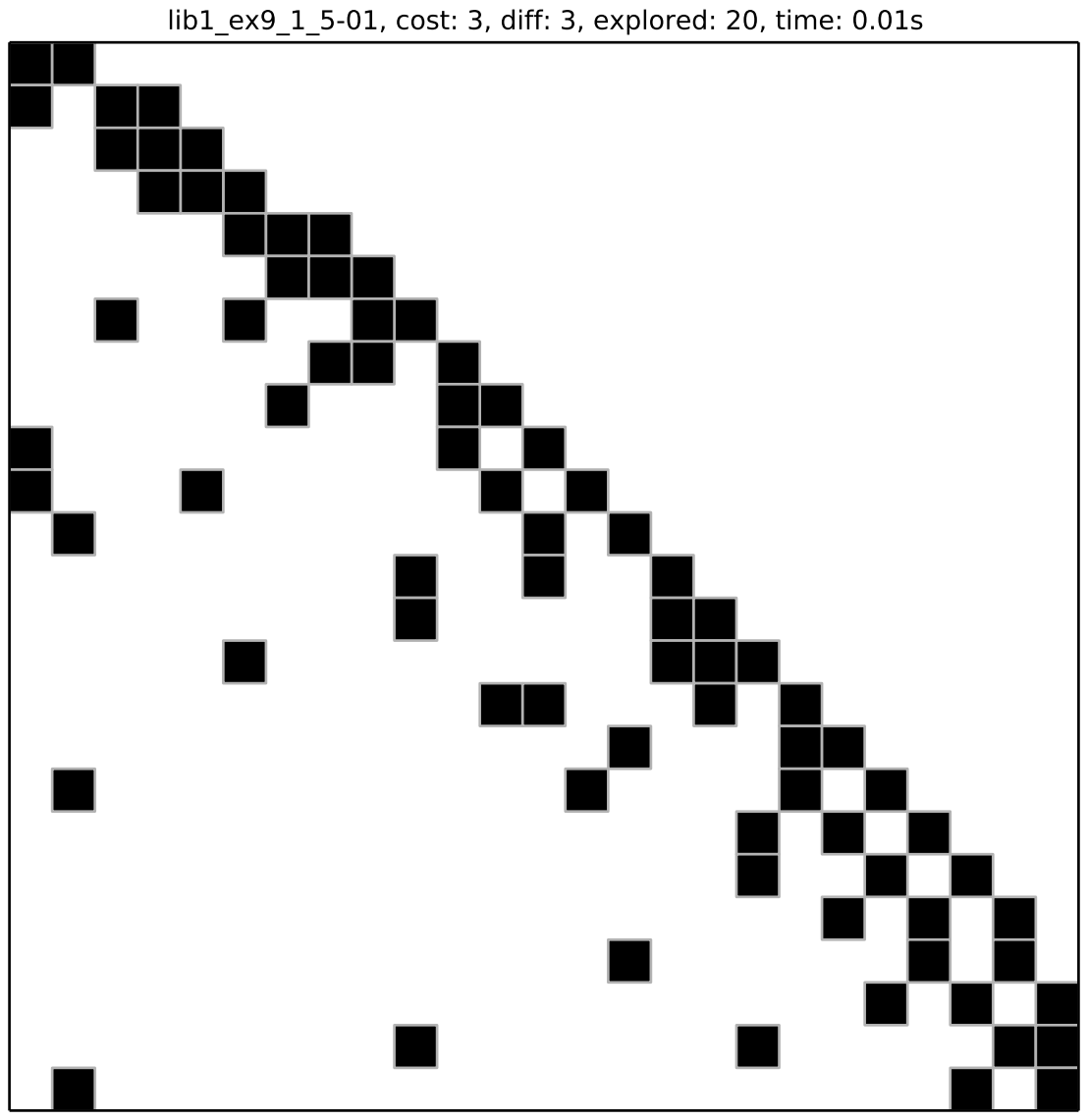


lib1_ex9_1_5-00, cost: 3, diff: 3, explored: 19, time: 0.01s

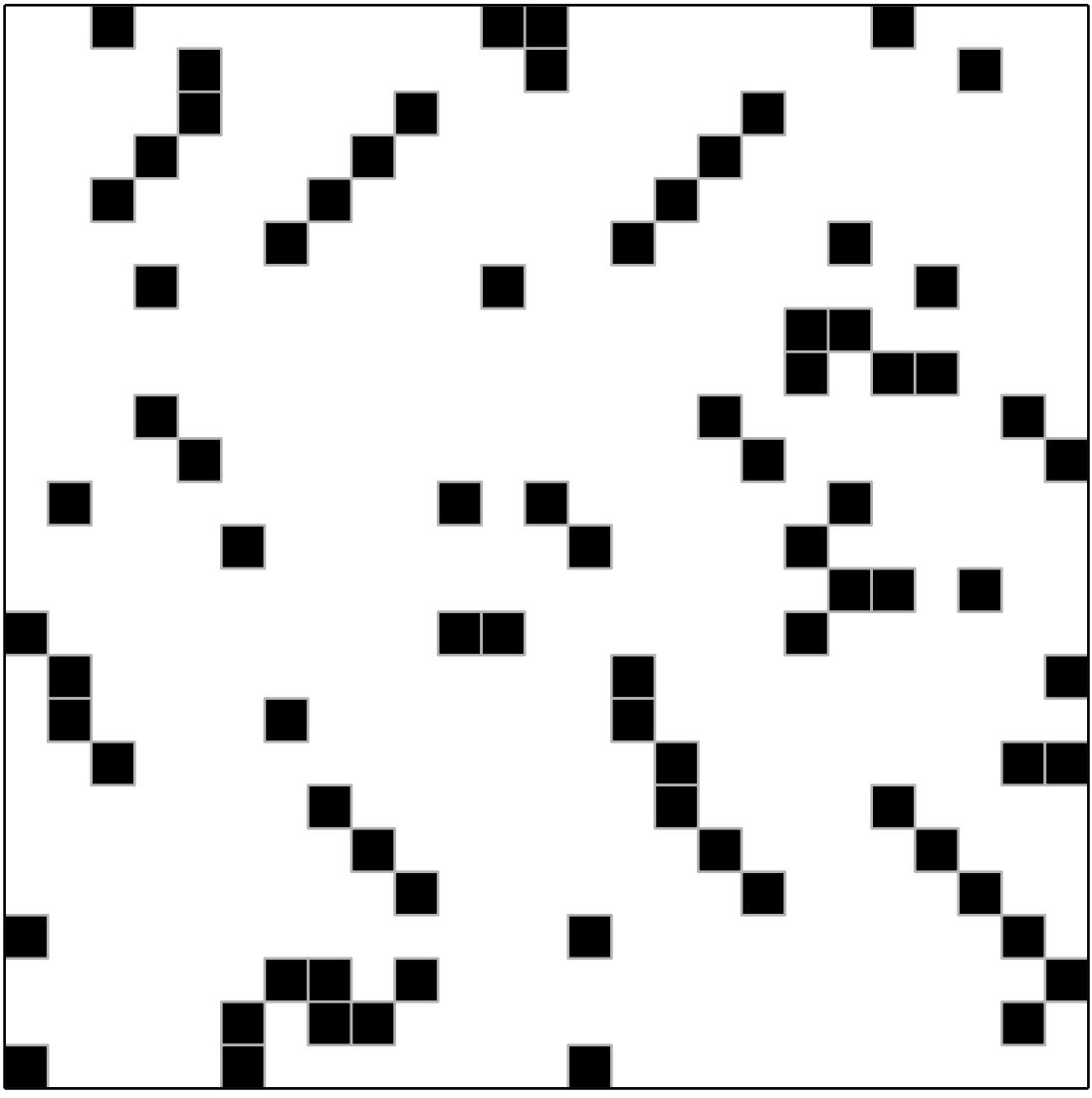


lib1_ex9_1_5-01 25x25 (80) con: 12, var: 13




lib1_ex9_1_5-01, cost: 3, diff: 3, explored: 20, time: 0.01s

lib1_ex9_1_5-02 25x25 (80) con: 12, var: 13



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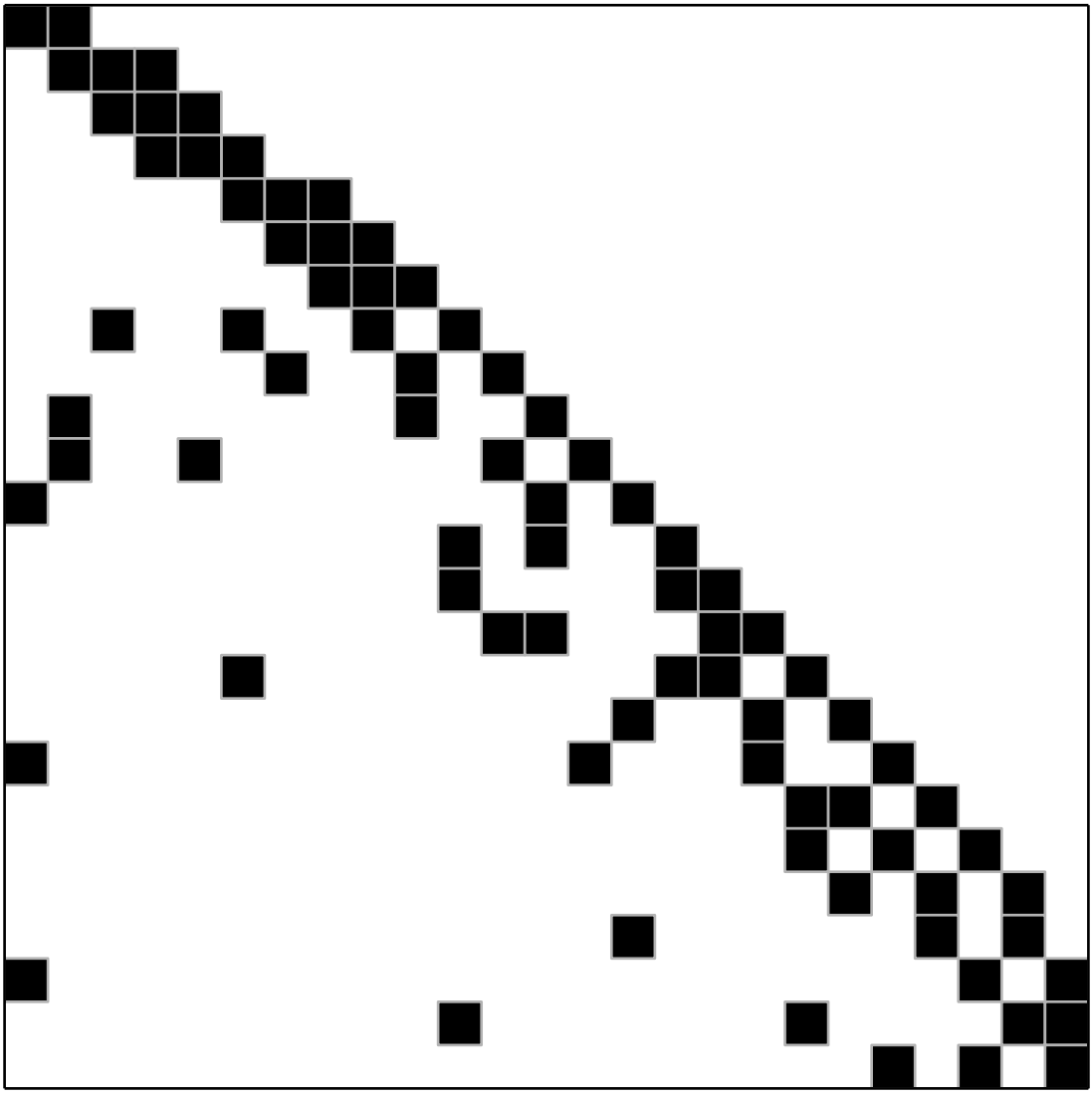
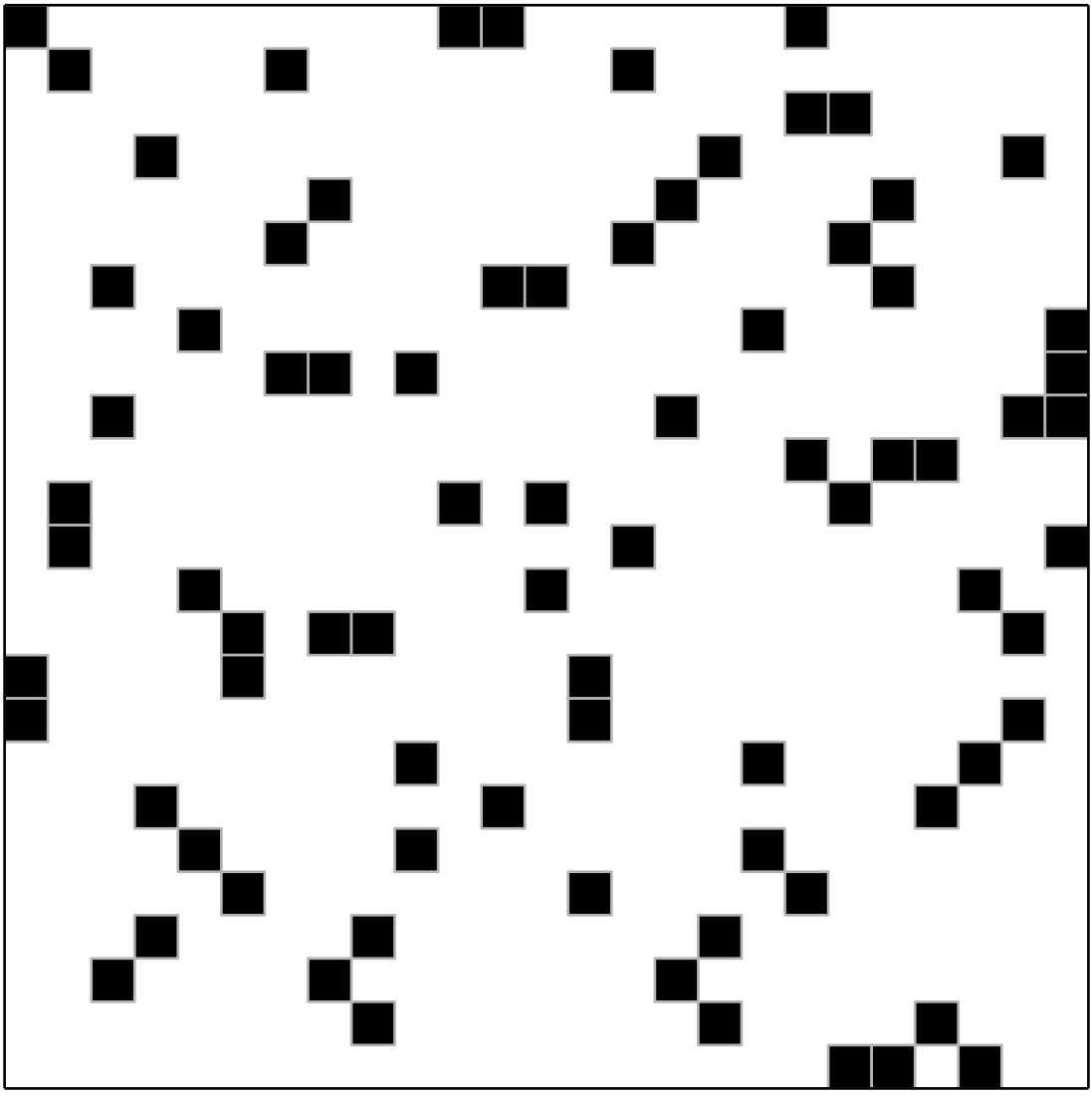
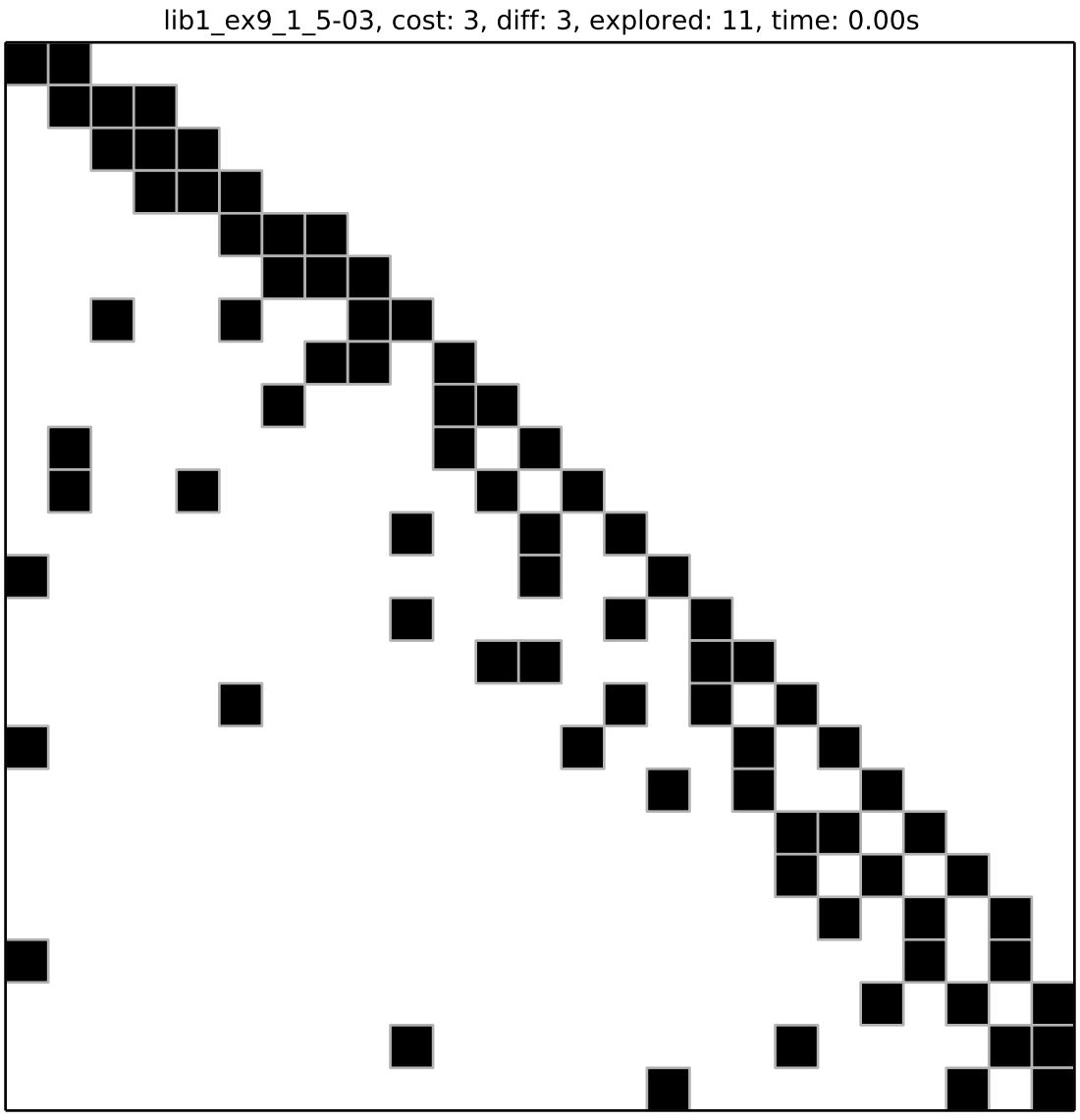
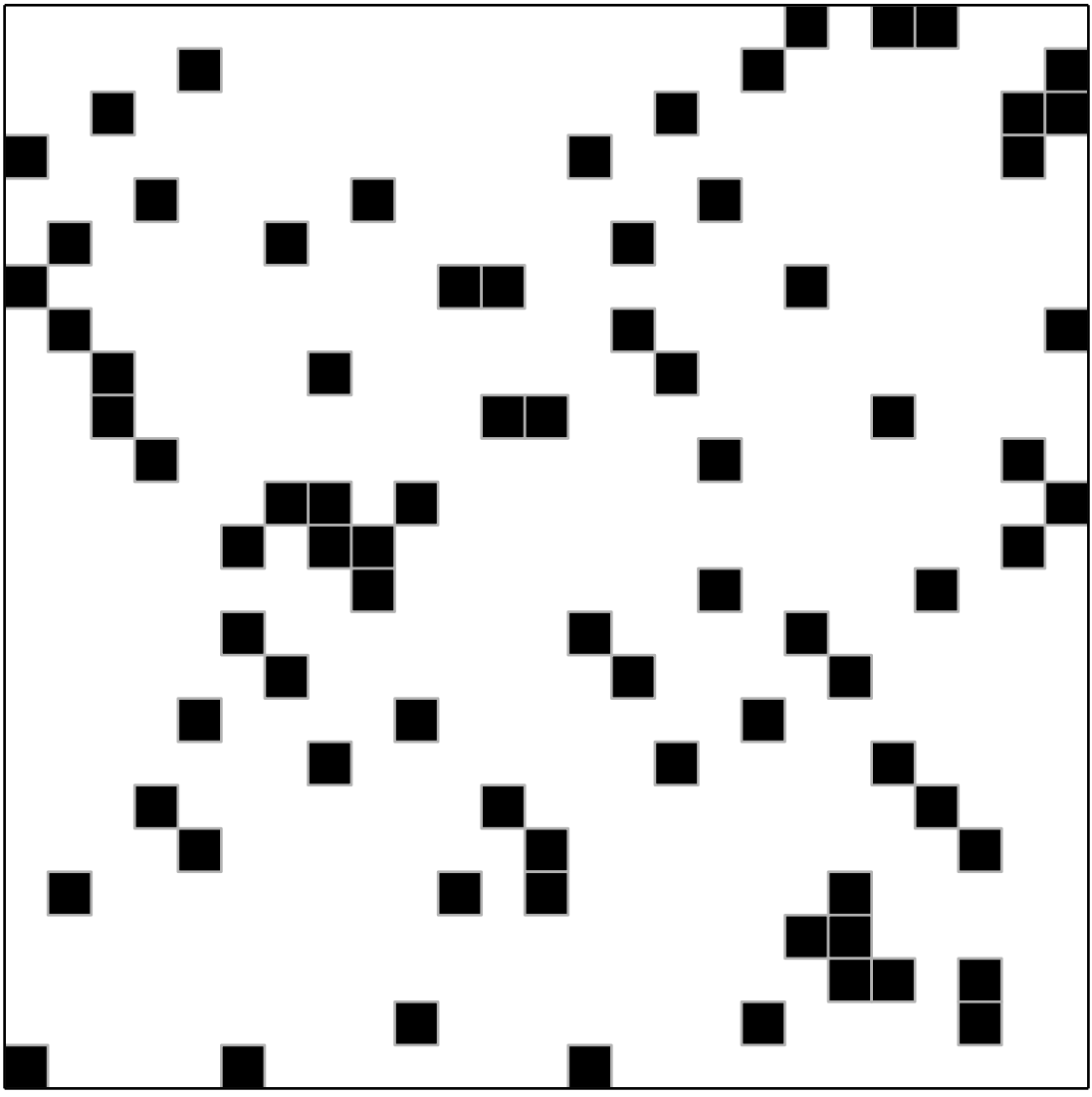


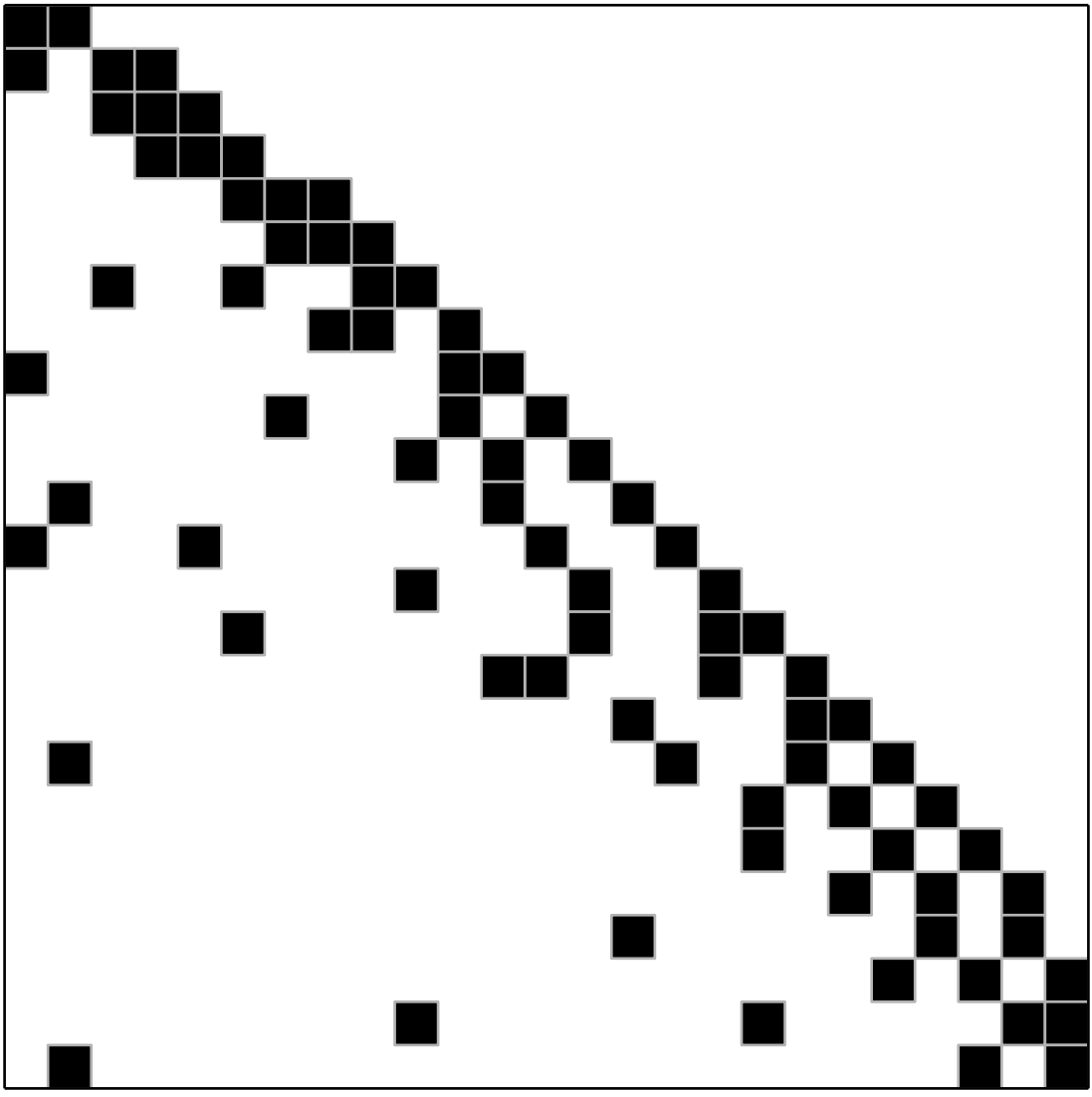
lib1_ex9_1_5-03 25x25 (80) con: 12, var: 13



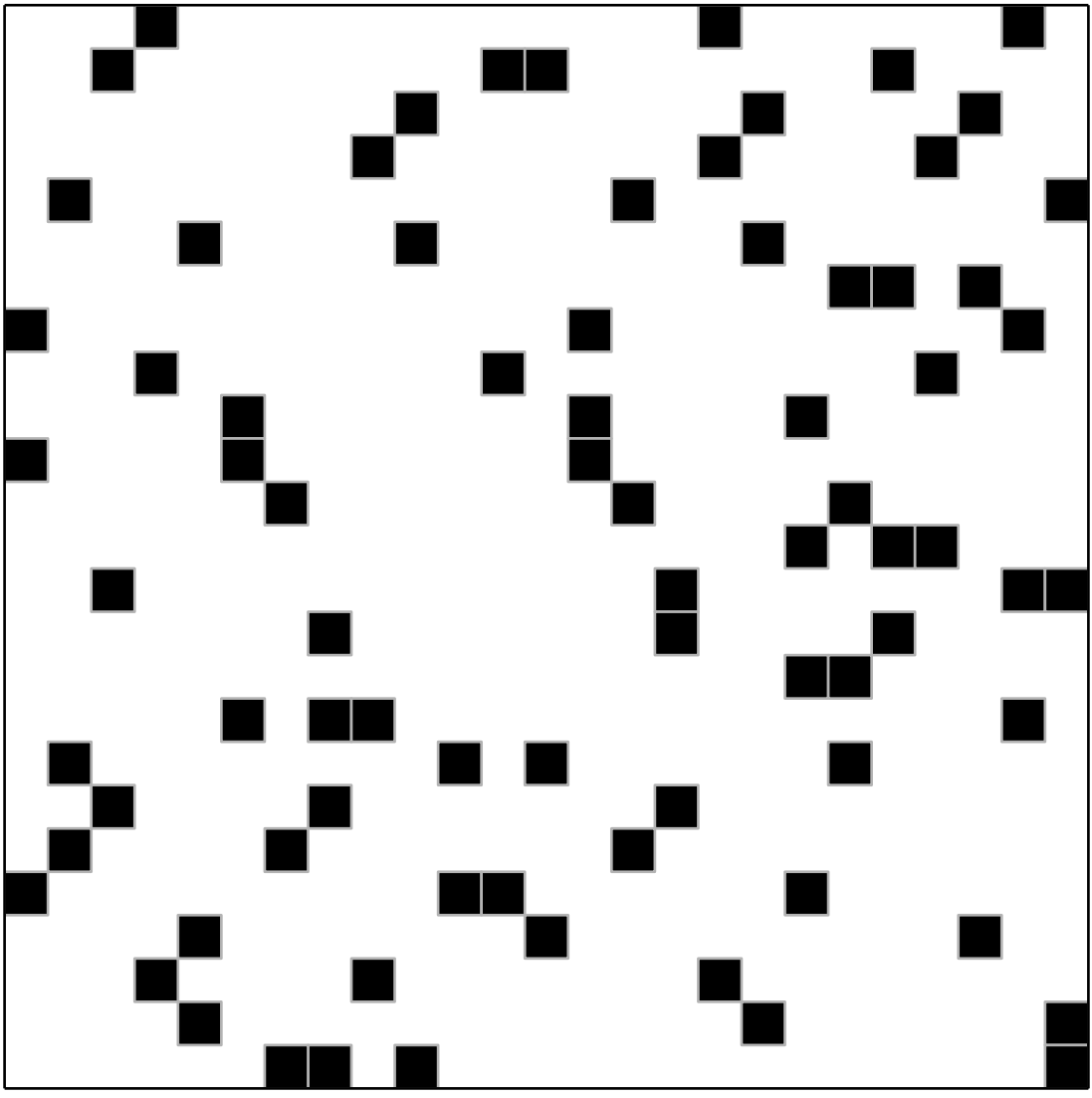

lib1_ex9_1_5-03, cost: 3, diff: 3, explored: 11, time: 0.00s


lib1_ex9_1_5-04 25x25 (80) con: 12, var: 13

lib1_ex9_1_5-04, cost: 3, diff: 3, explored: 17, time: 0.01s



lib1_ex9_1_5-05 25x25 (80) con: 12, var: 13



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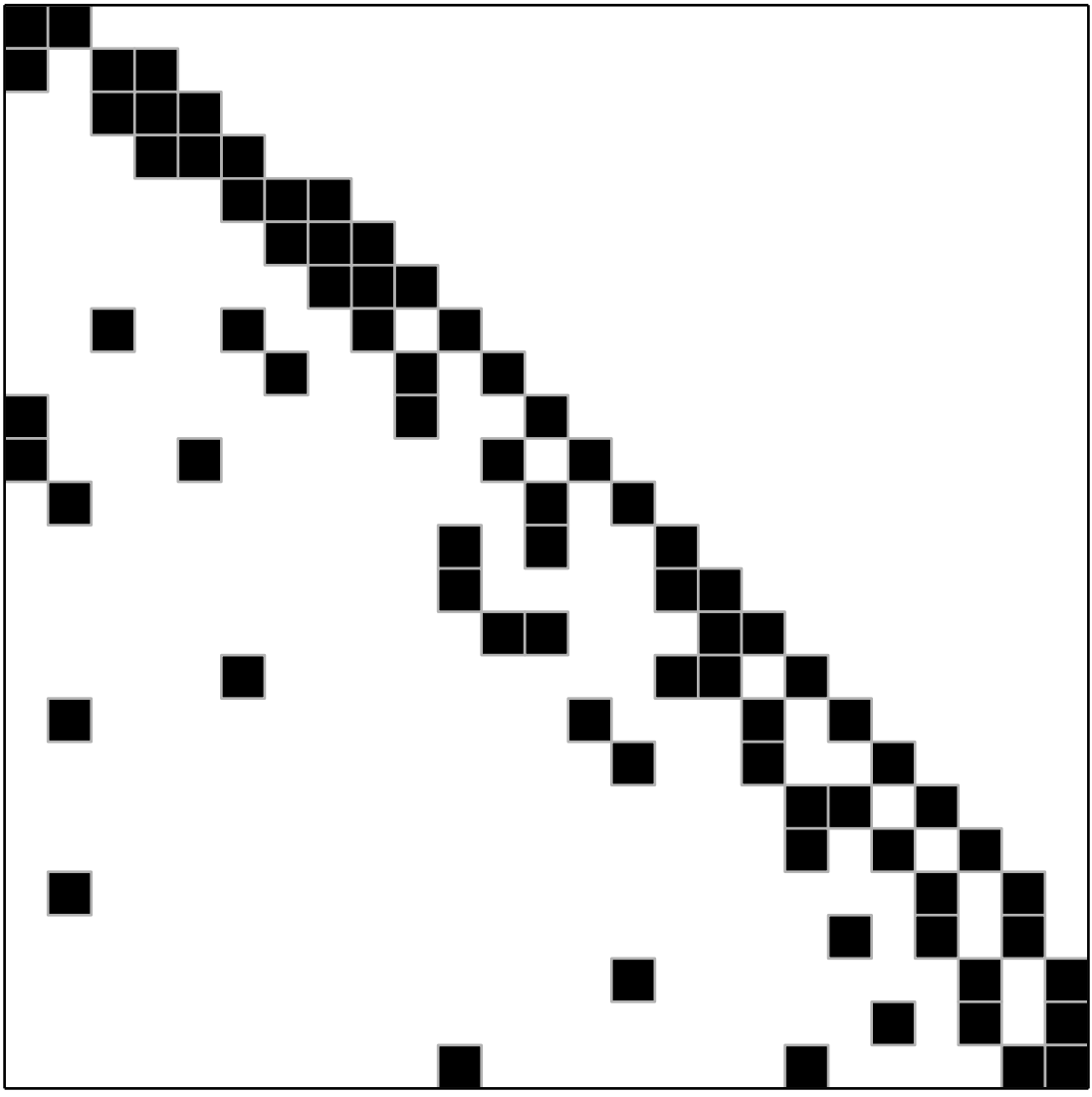
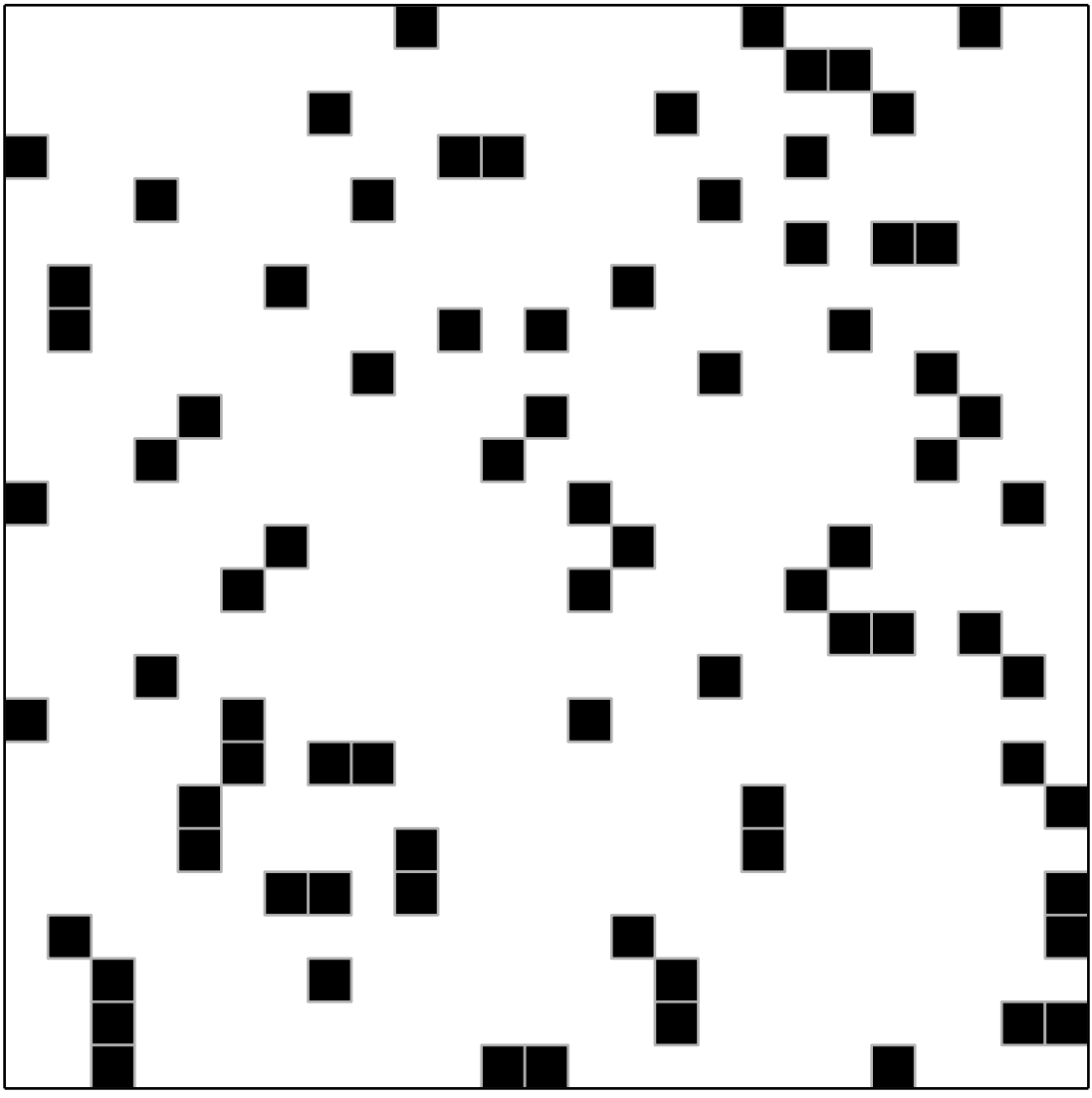
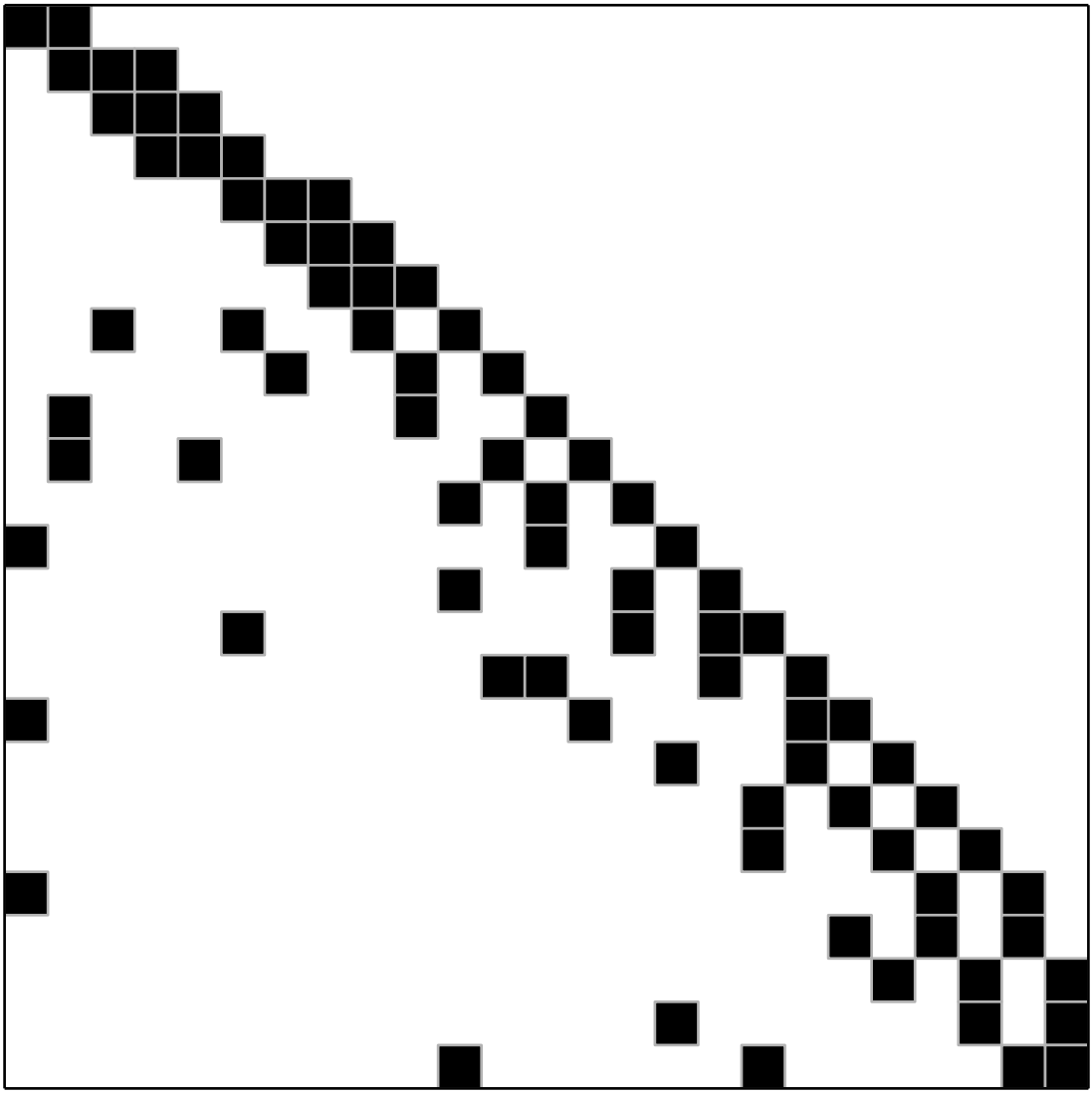


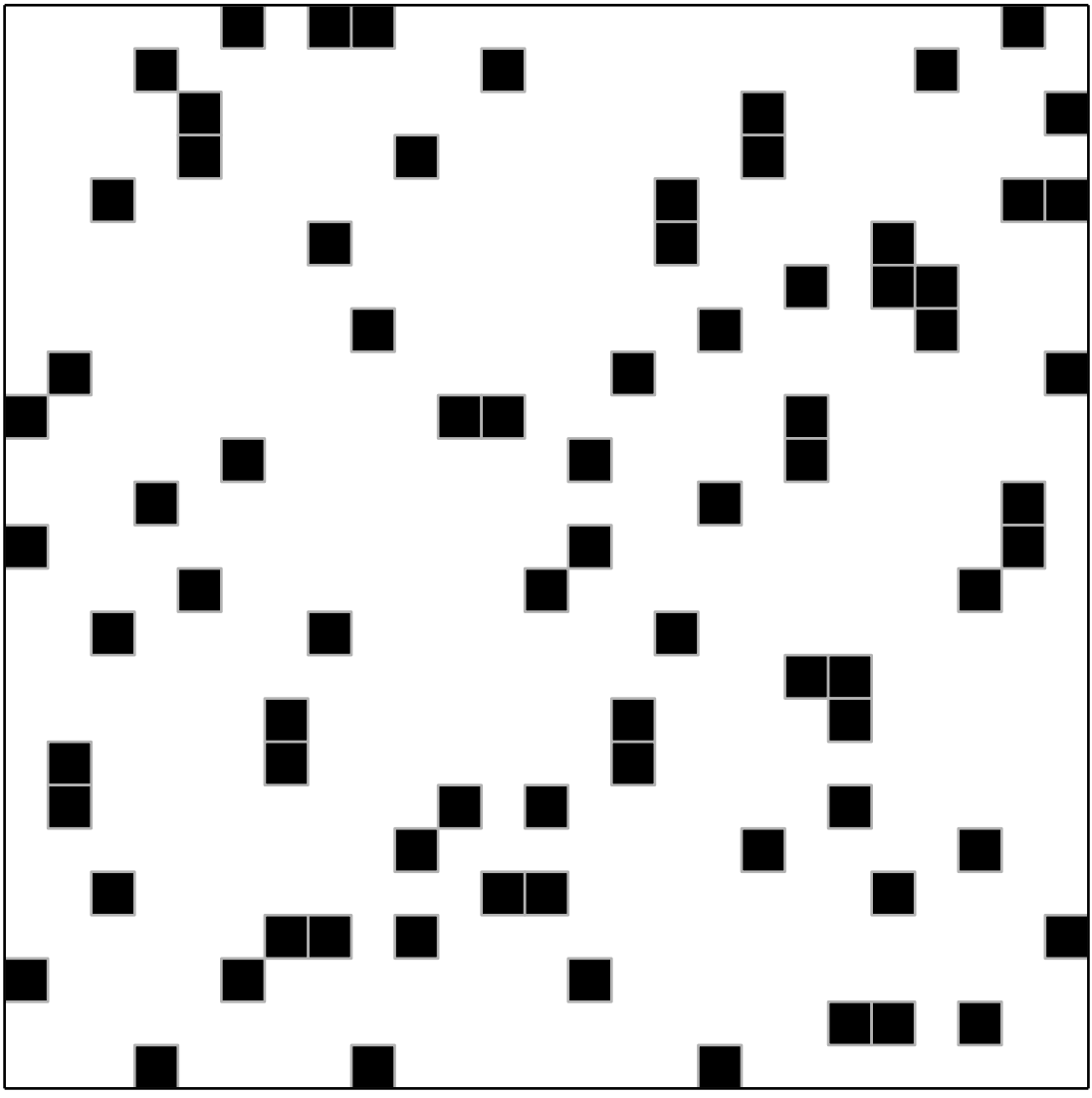
lib1_ex9_1_5-06 25x25 (80) con: 12, var: 13

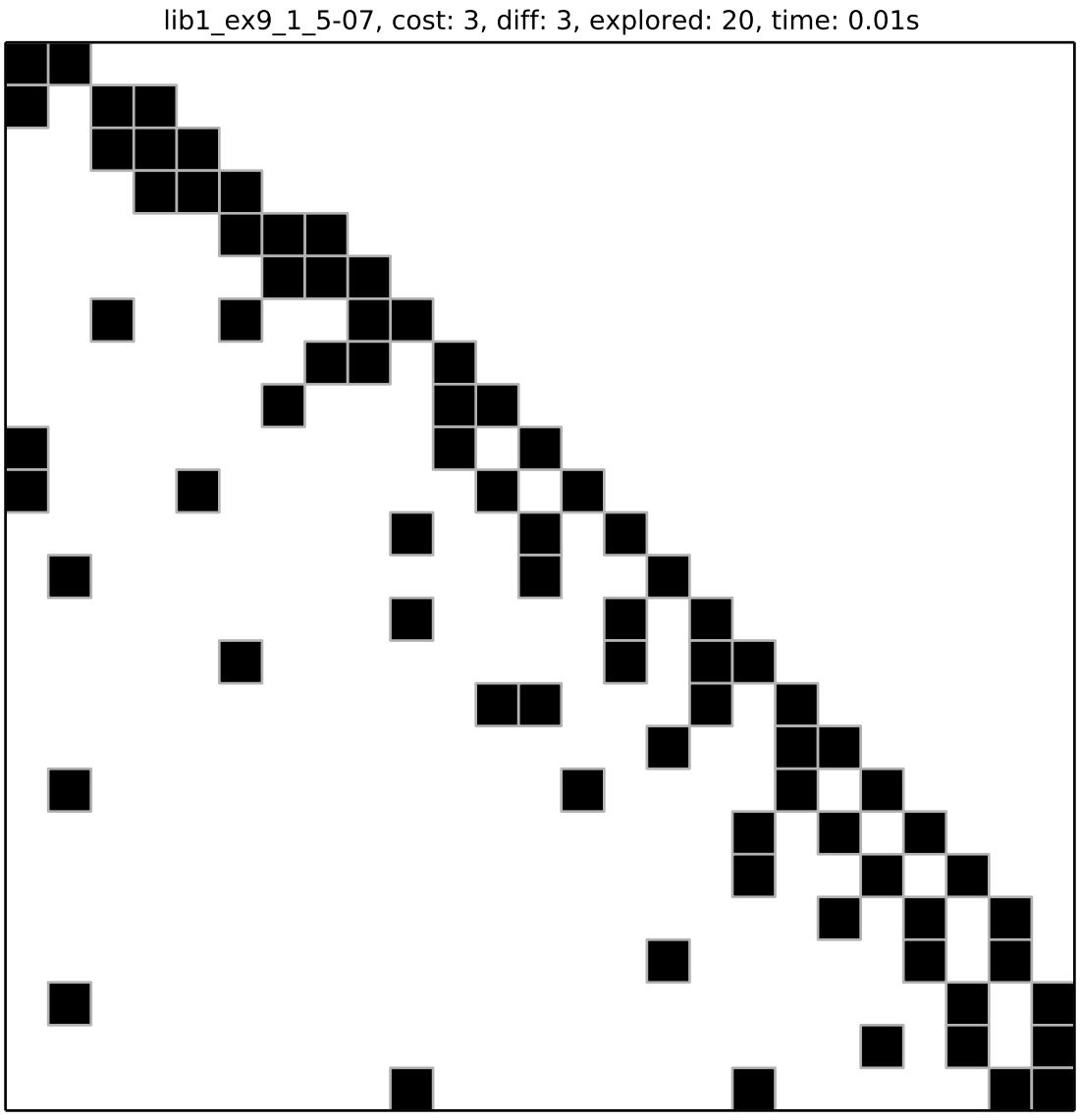


lib1_ex9_1_5-06, cost: 3, diff: 3, explored: 16, time: 0.01s

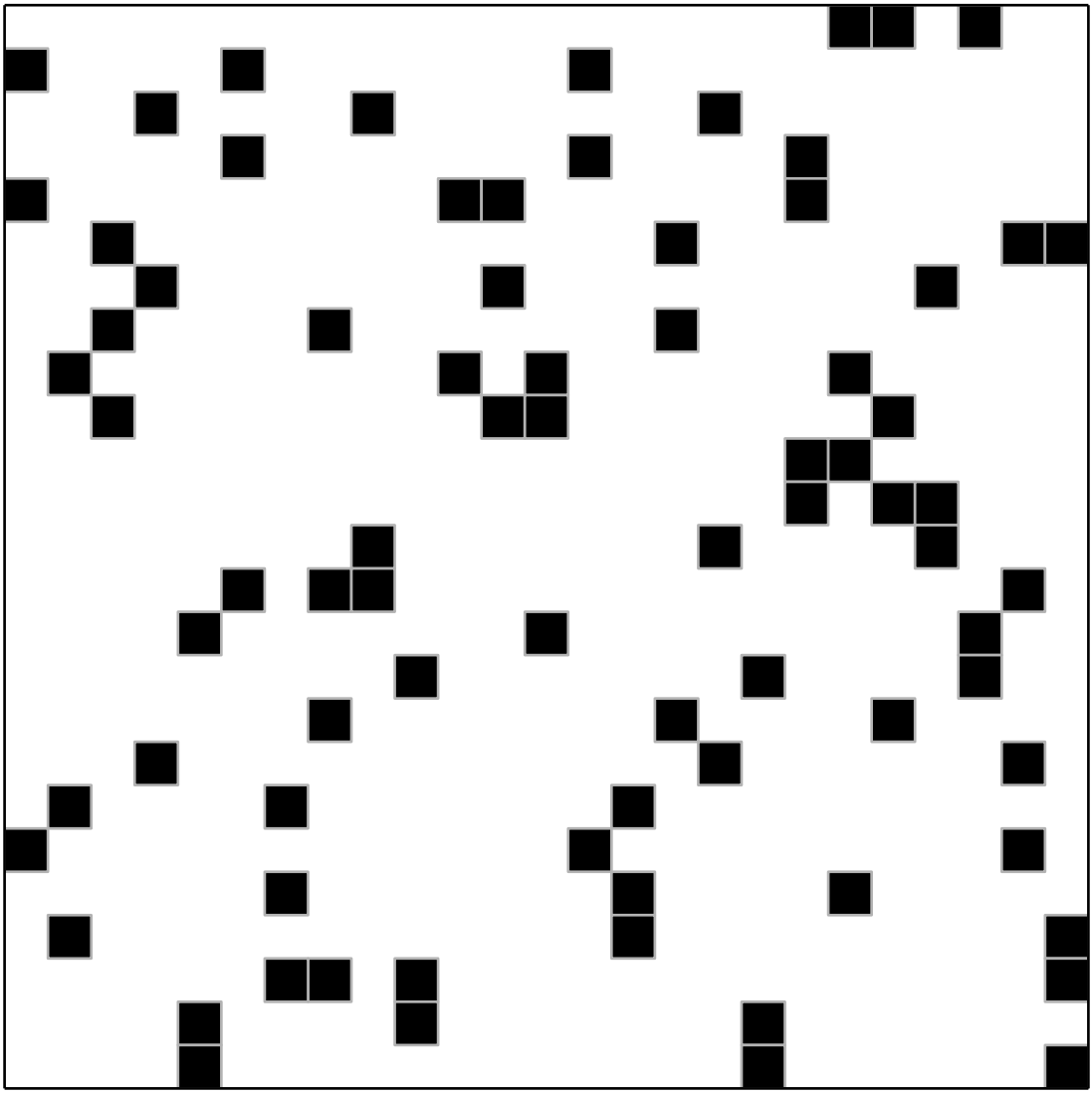


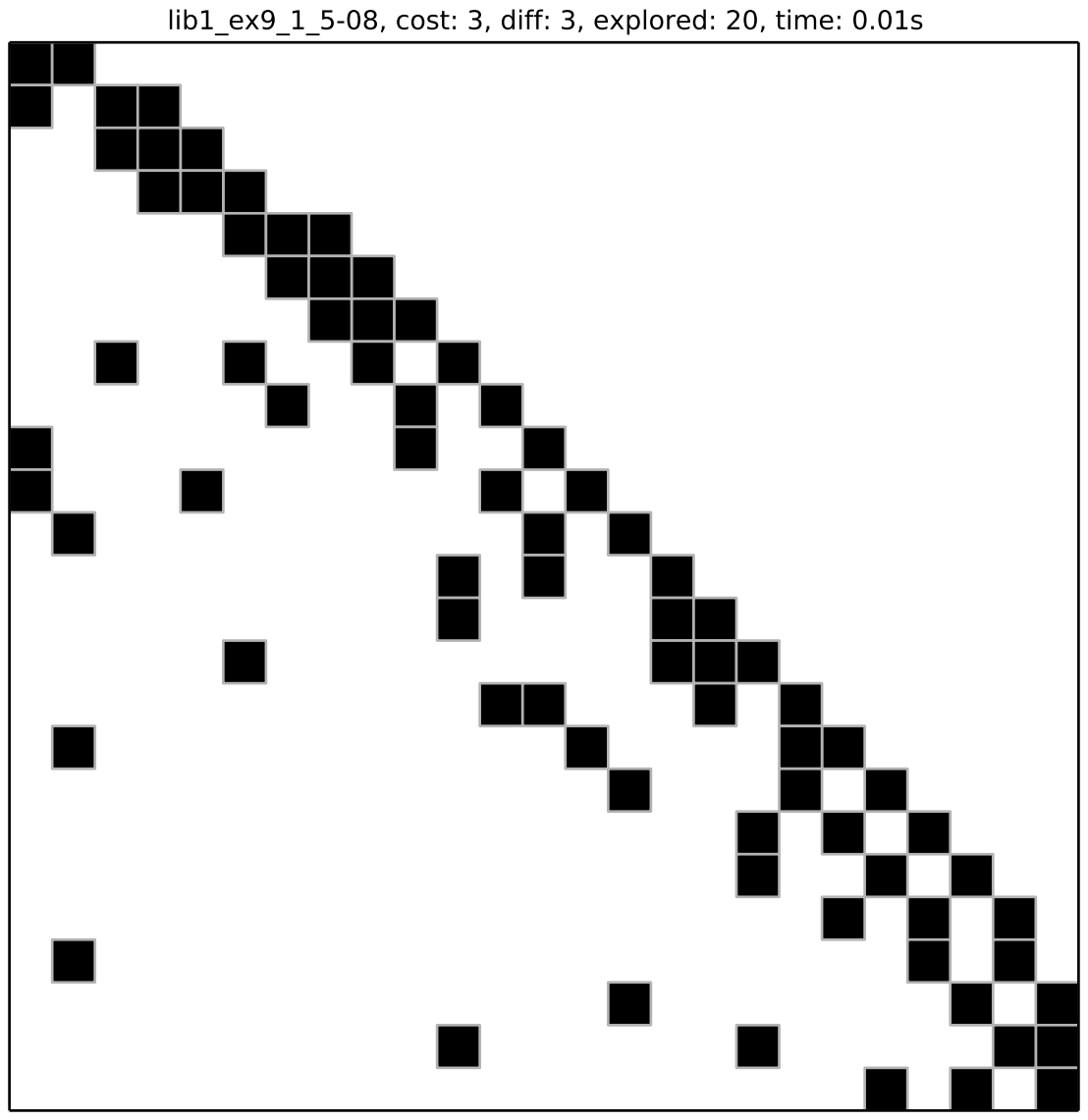
lib1_ex9_1_5-07 25x25 (80) con: 12, var: 13




lib1_ex9_1_5-07, cost: 3, diff: 3, explored: 20, time: 0.01s

lib1_ex9_1_5-08 25x25 (80) con: 12, var: 13

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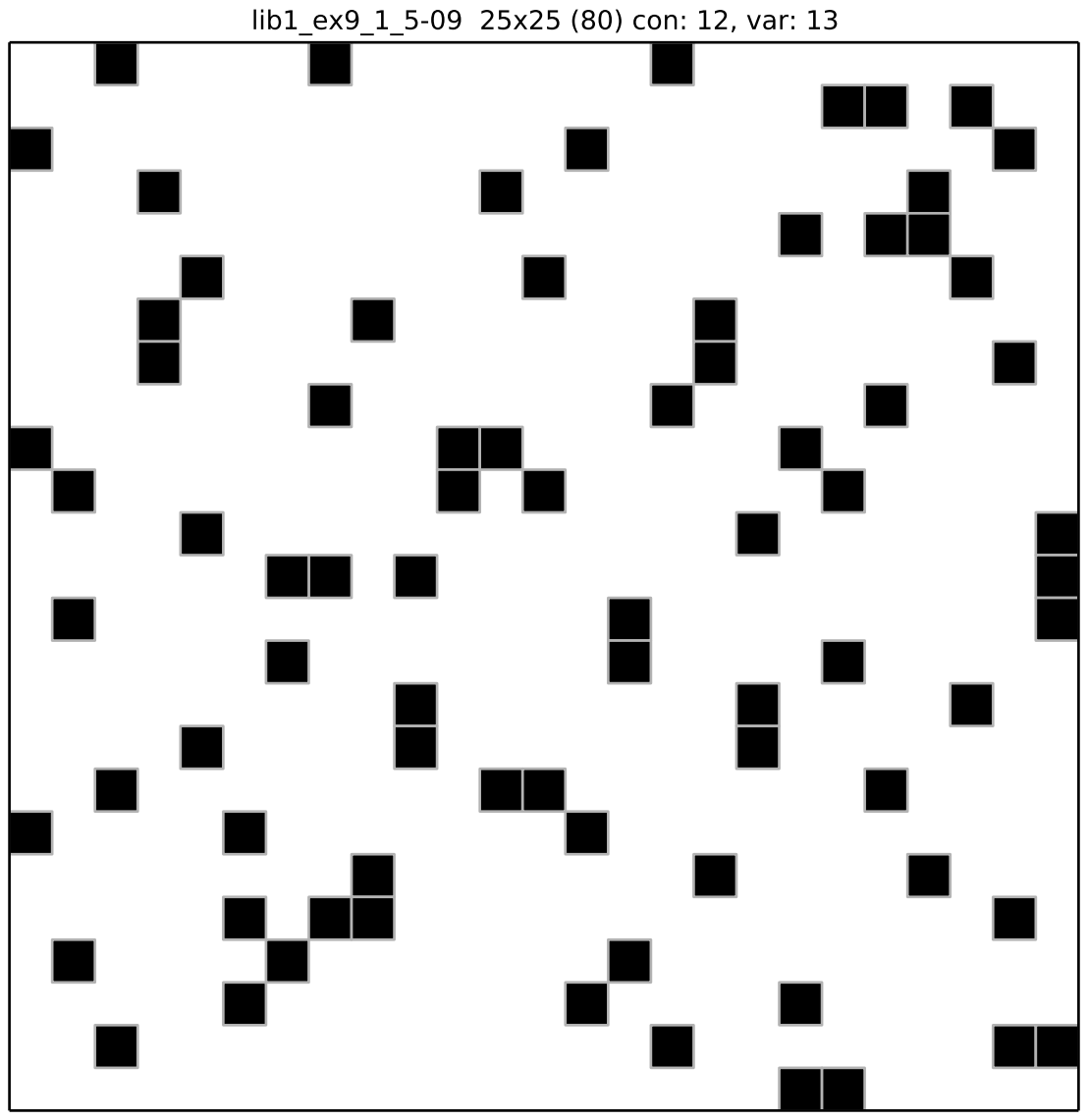
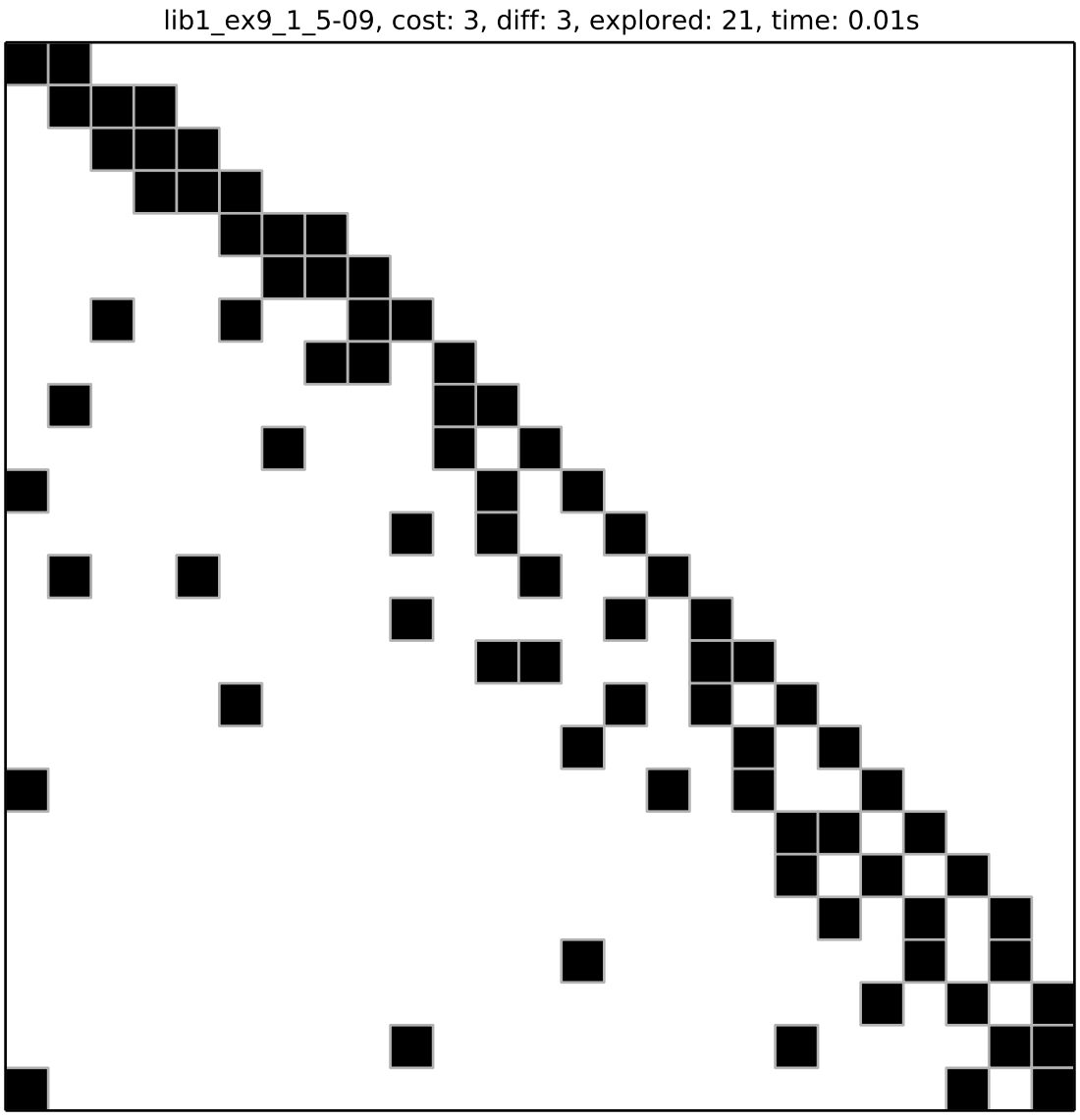

lib1_ex9_1_5-09 25x25 (80) con: 12, var: 13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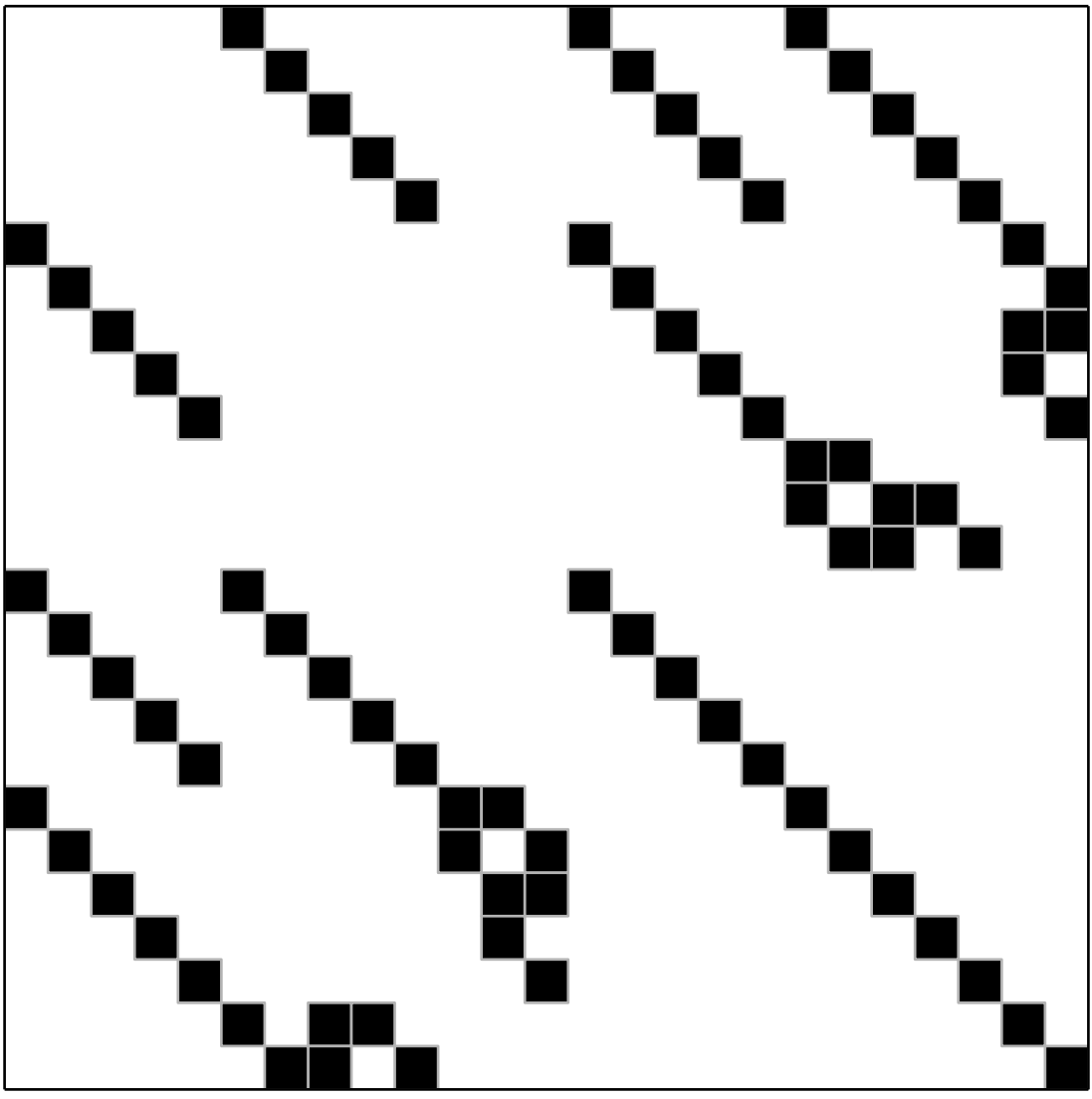
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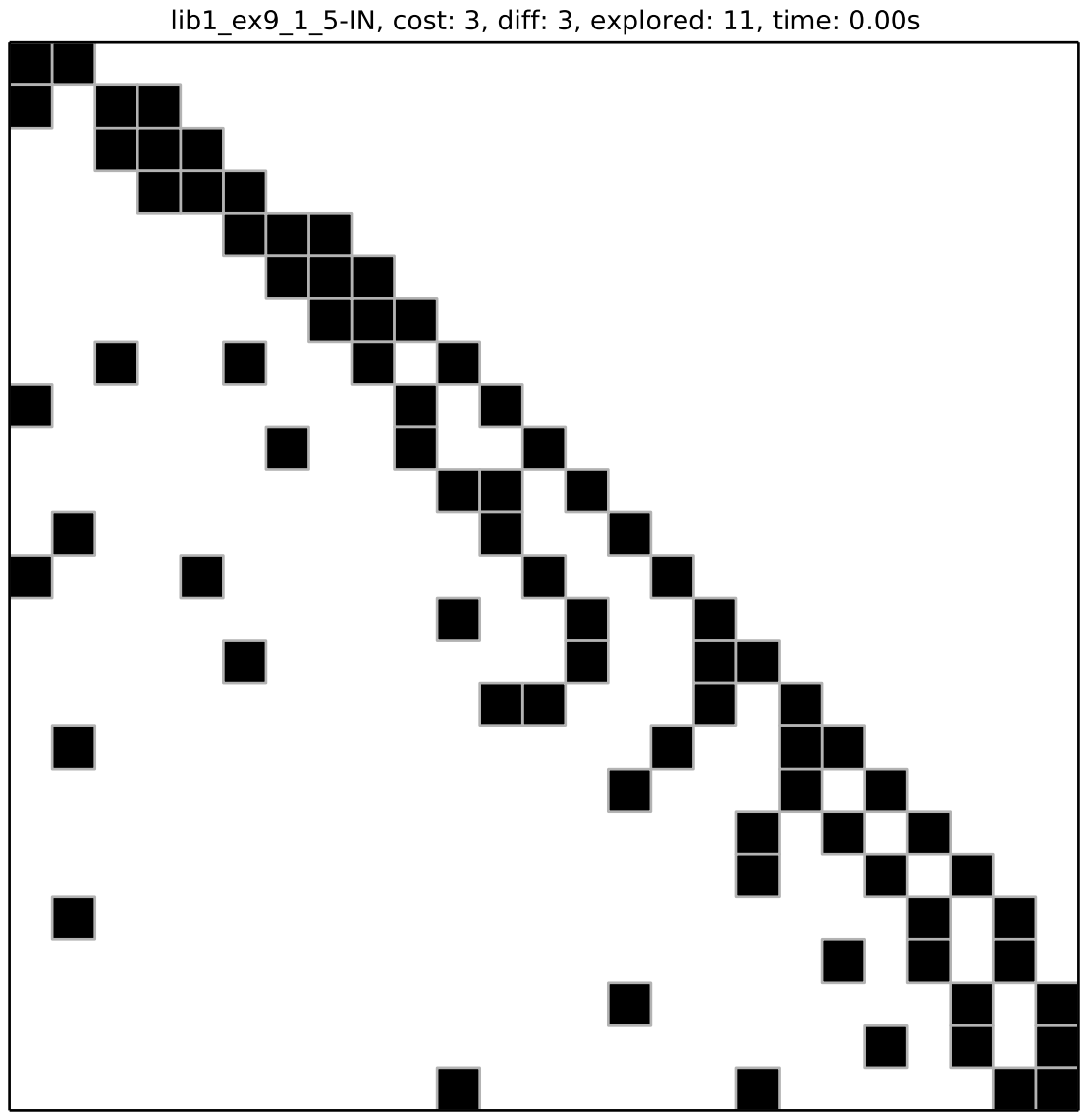
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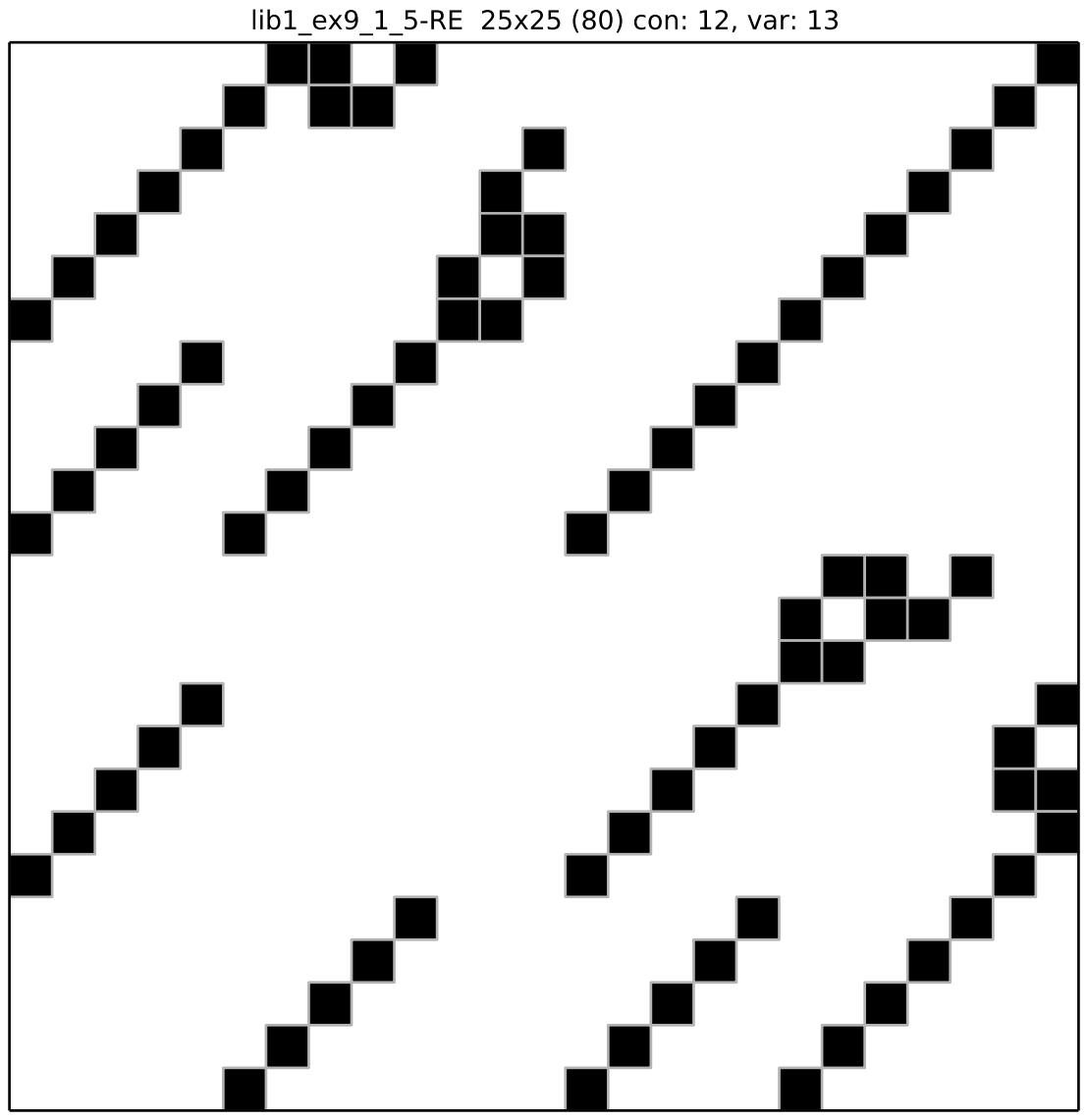
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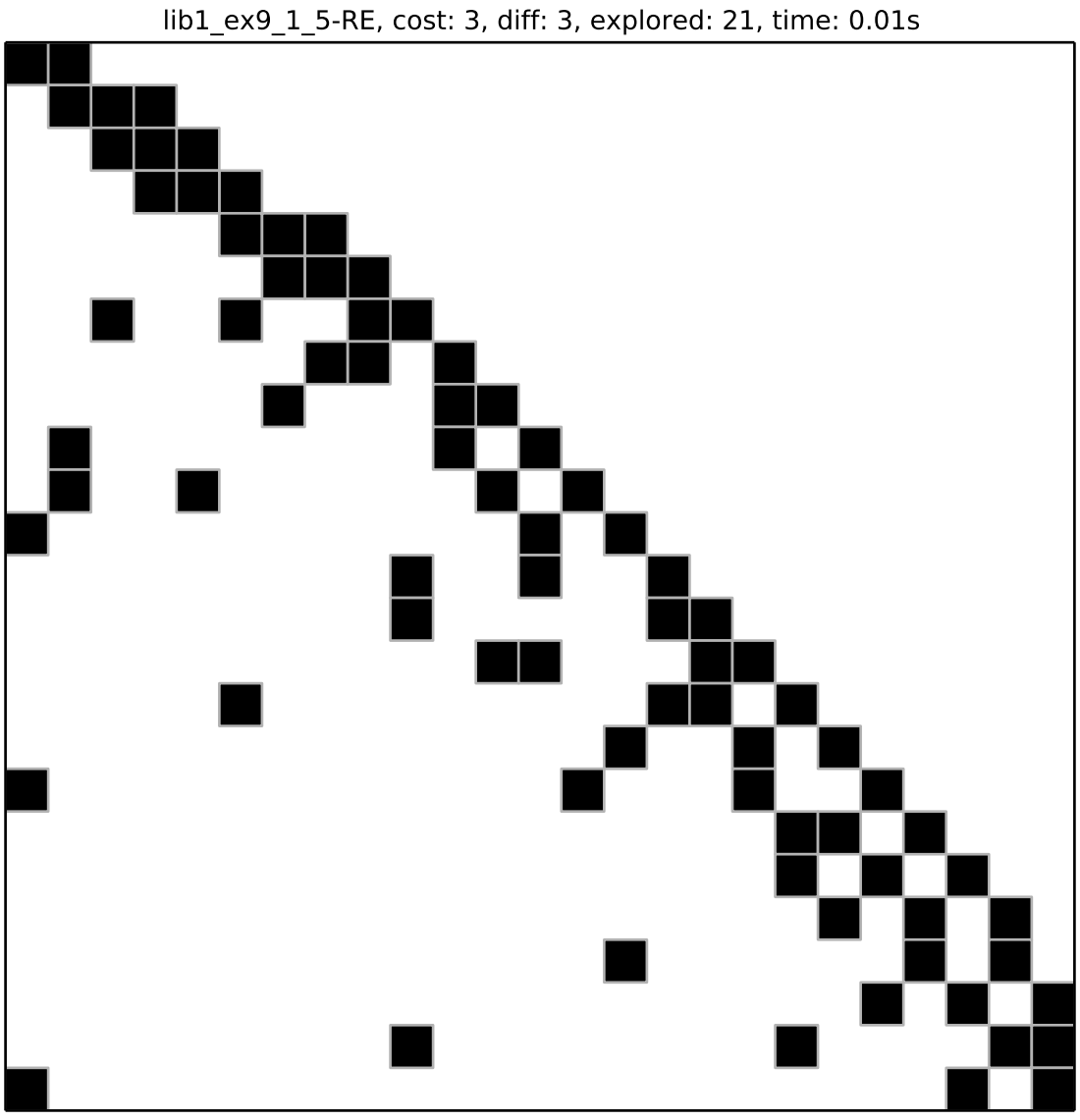
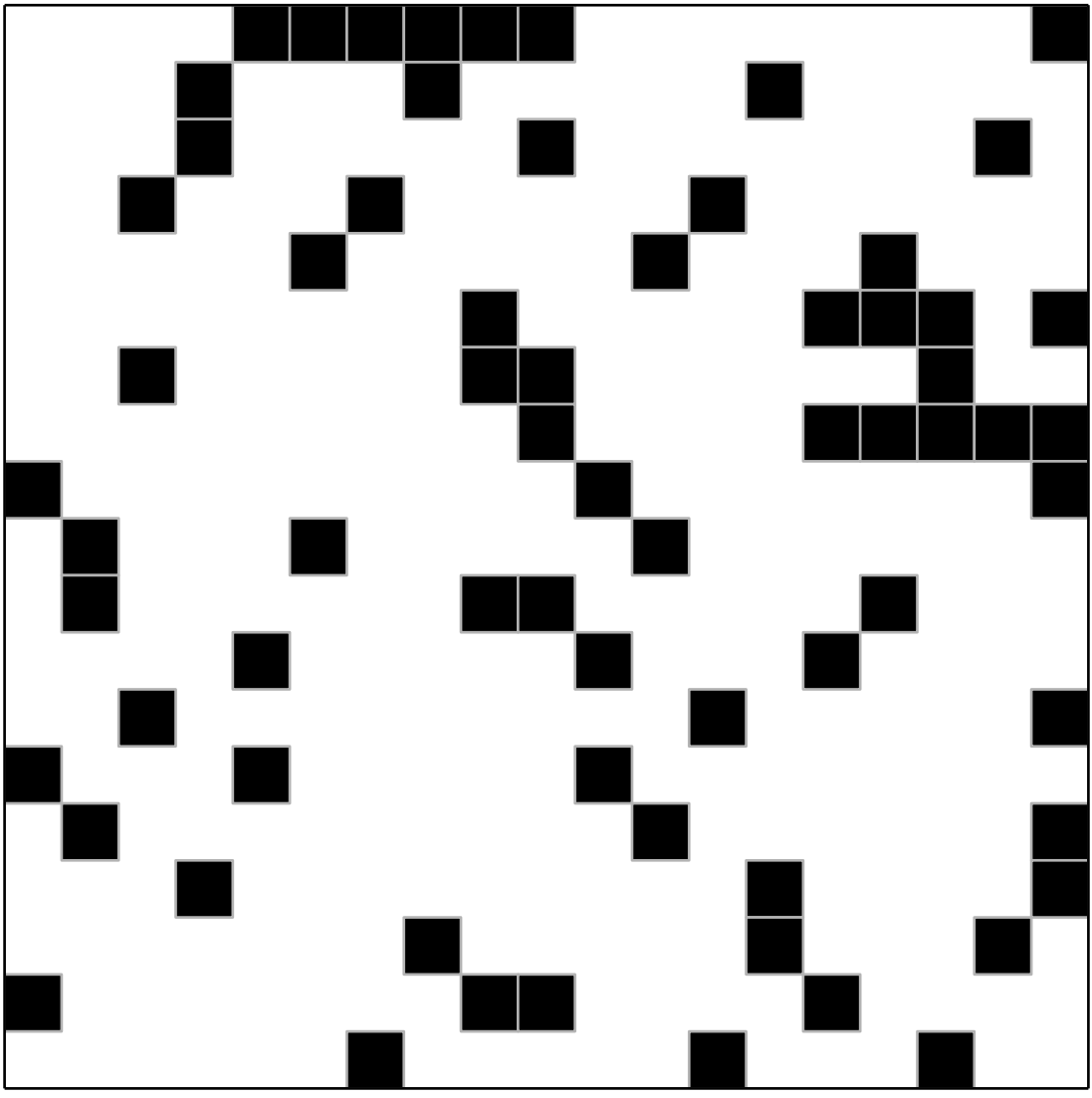
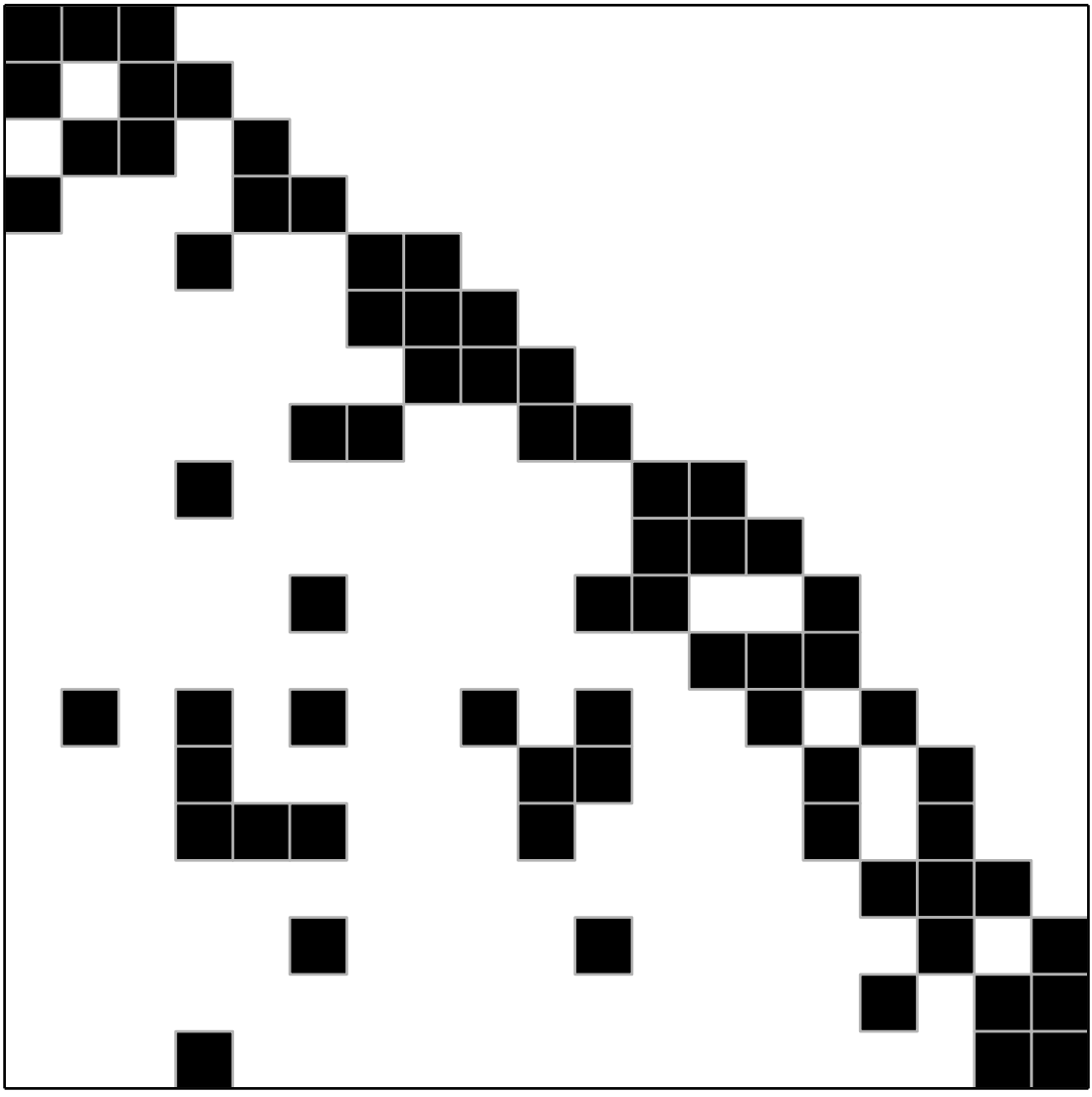

lib1_ex9_1_5-RE, cost: 3, diff: 3, explored: 21, time: 0.01s

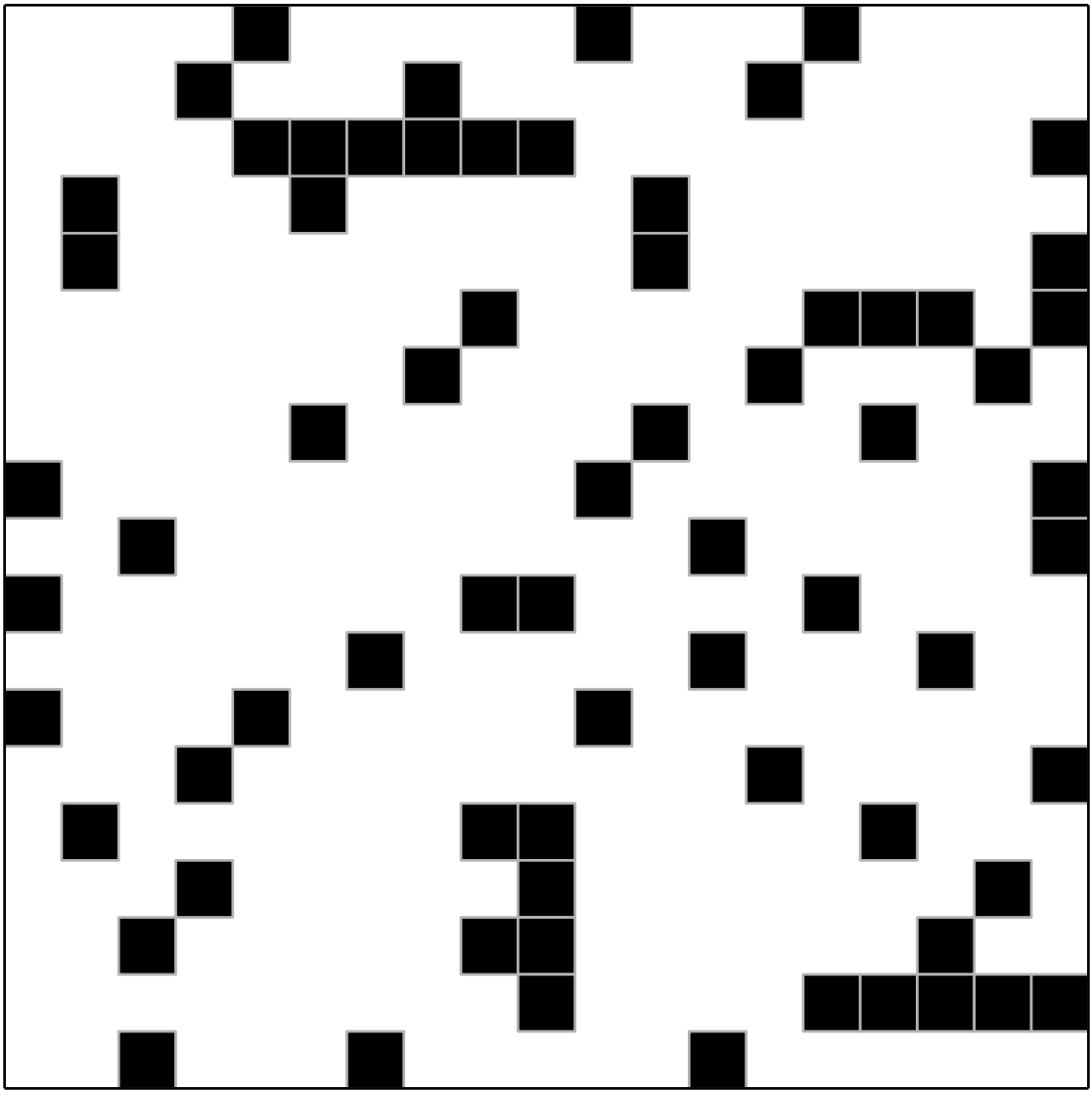
lib1_ex9_2_1-00 19x19 (69) con: 9, var: 10

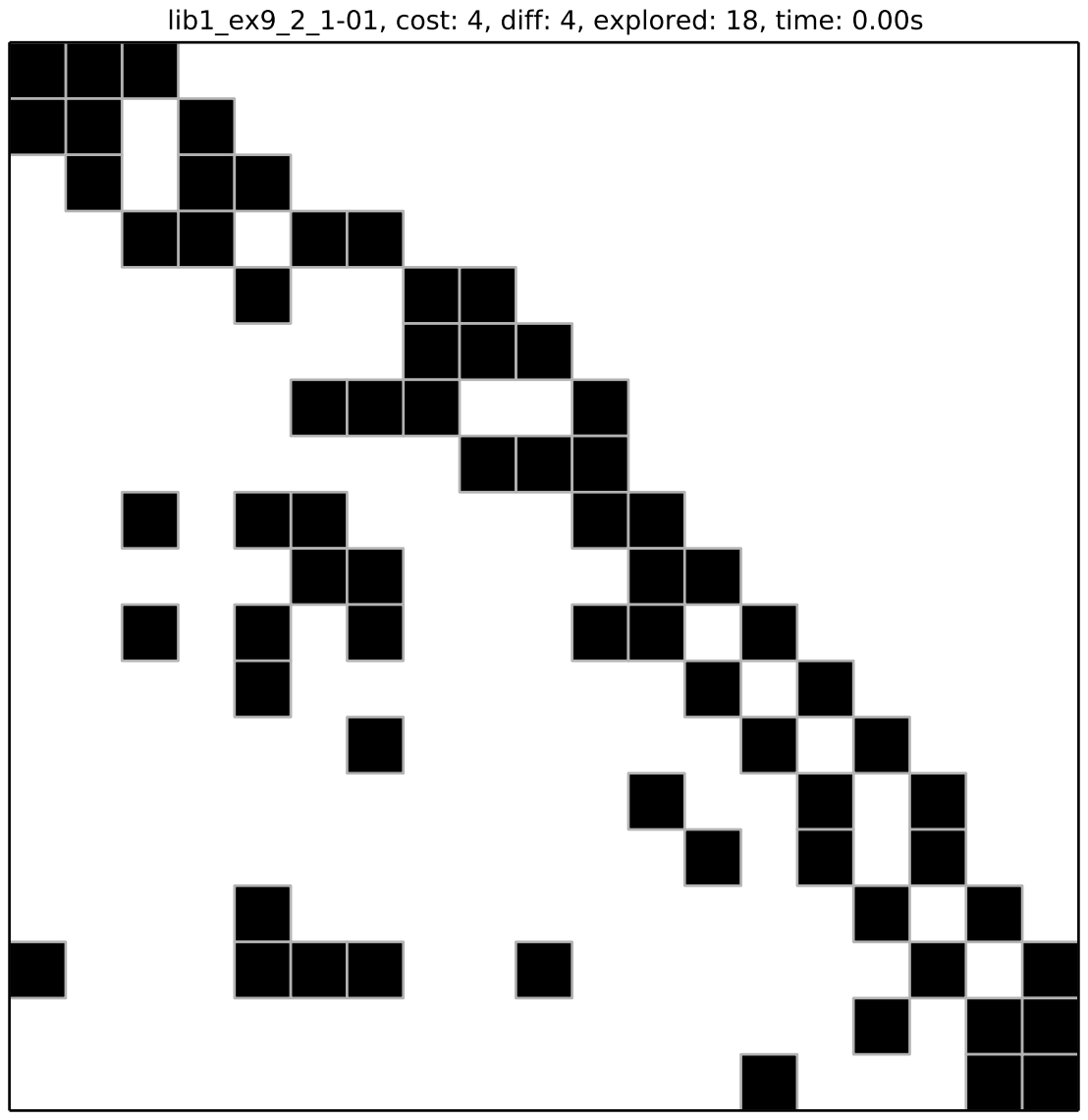


lib1_ex9_2_1-00, cost: 4, diff: 4, explored: 18, time: 0.00s

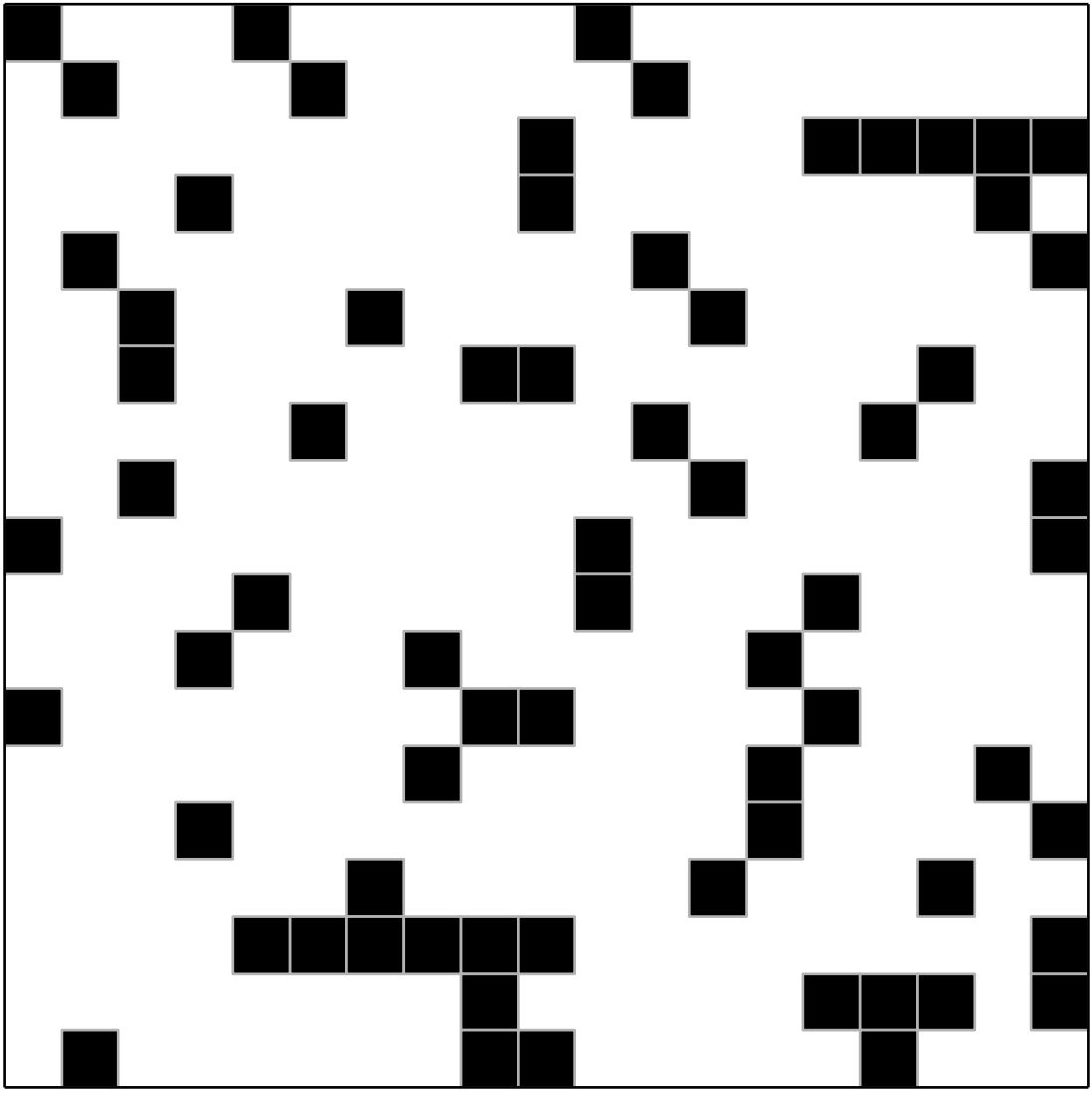


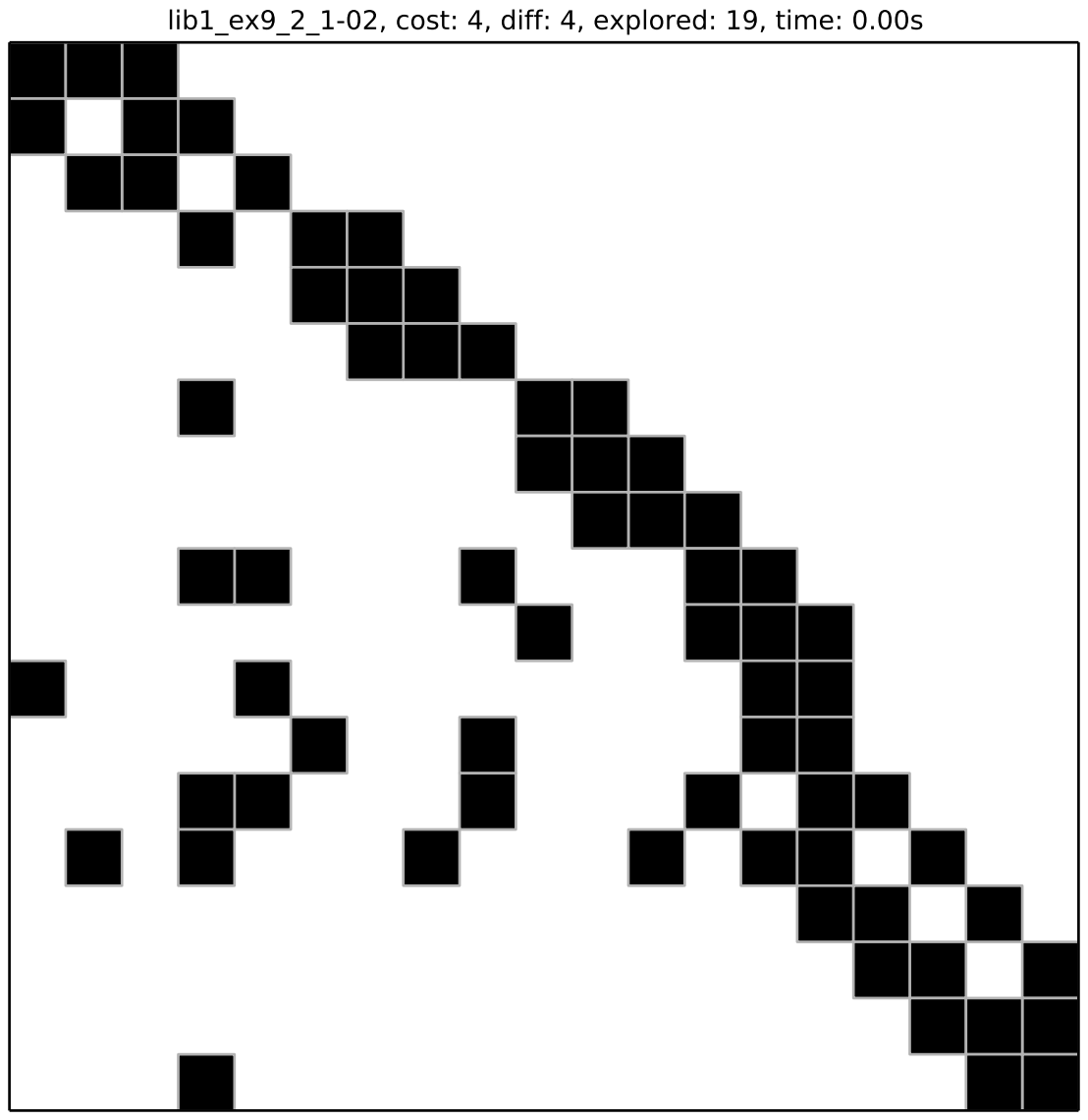
lib1_ex9_2_1-01 19x19 (69) con: 9, var: 10

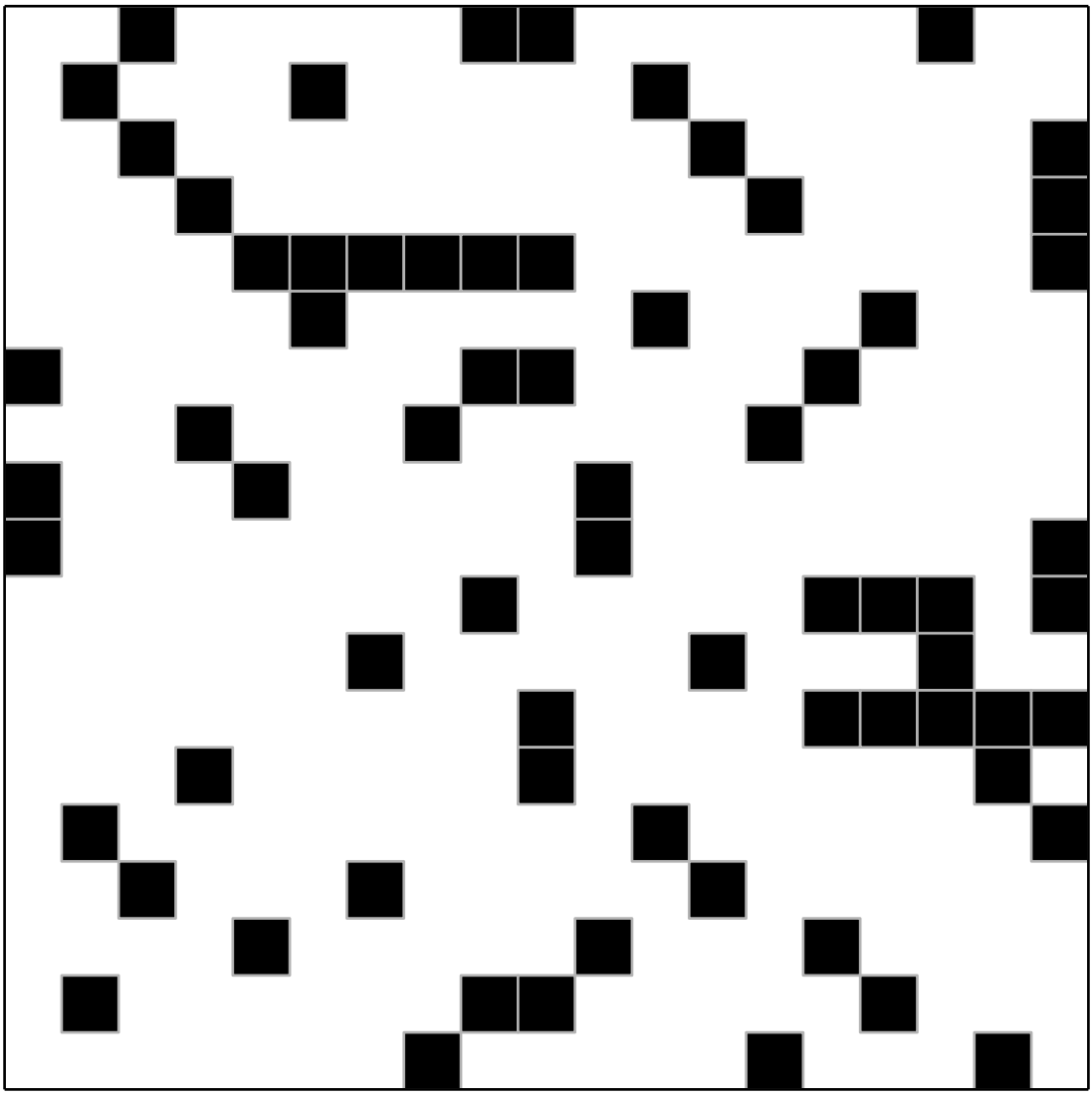


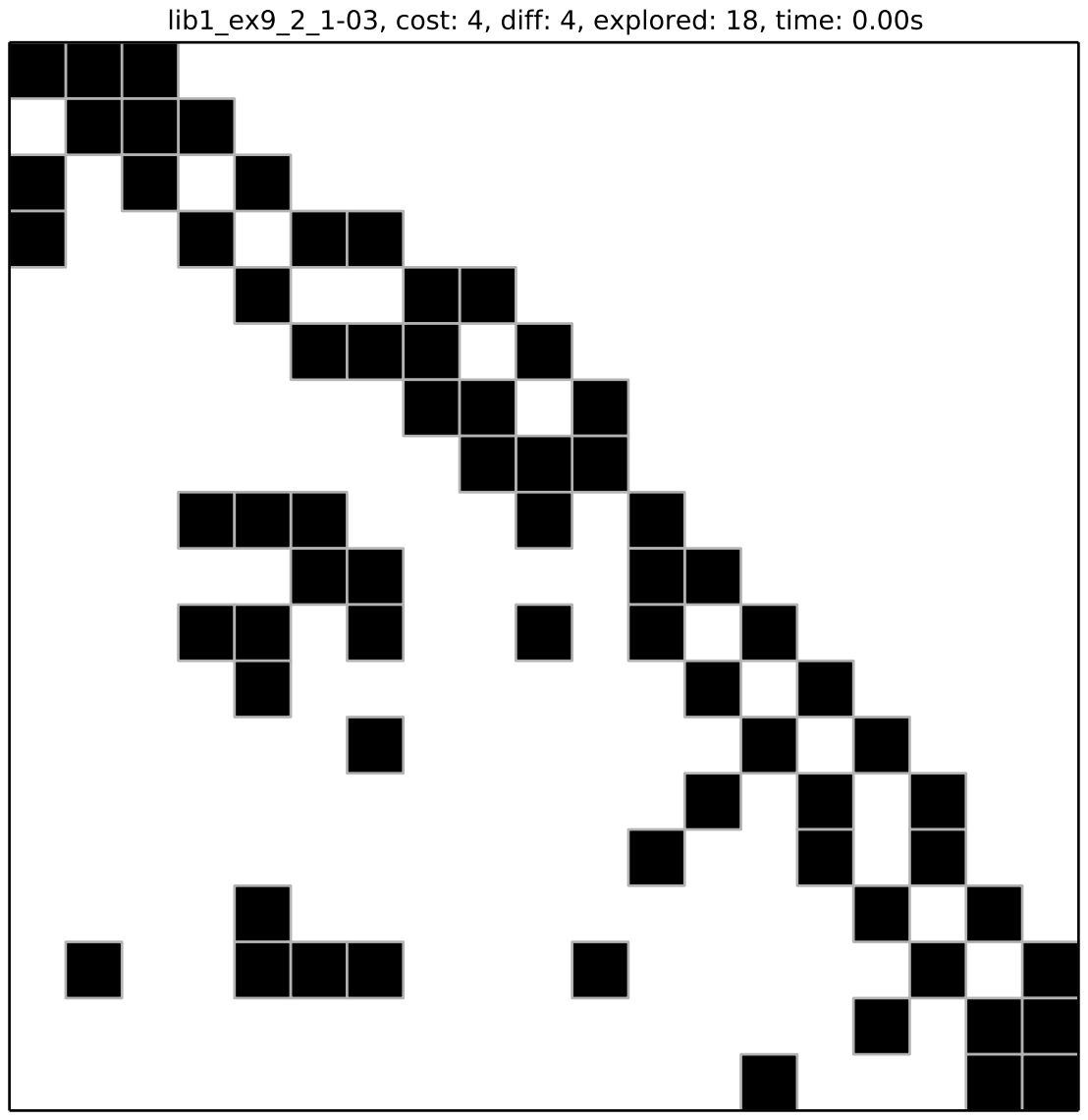

lib1_ex9_2_1-01, cost: 4, diff: 4, explored: 18, time: 0.00s

lib1_ex9_2_1-02 19x19 (69) con: 9, var: 10




lib1_ex9_2_1-02, cost: 4, diff: 4, explored: 19, time: 0.00s


lib1_ex9_2_1-03 19x19 (69) con: 9, var: 10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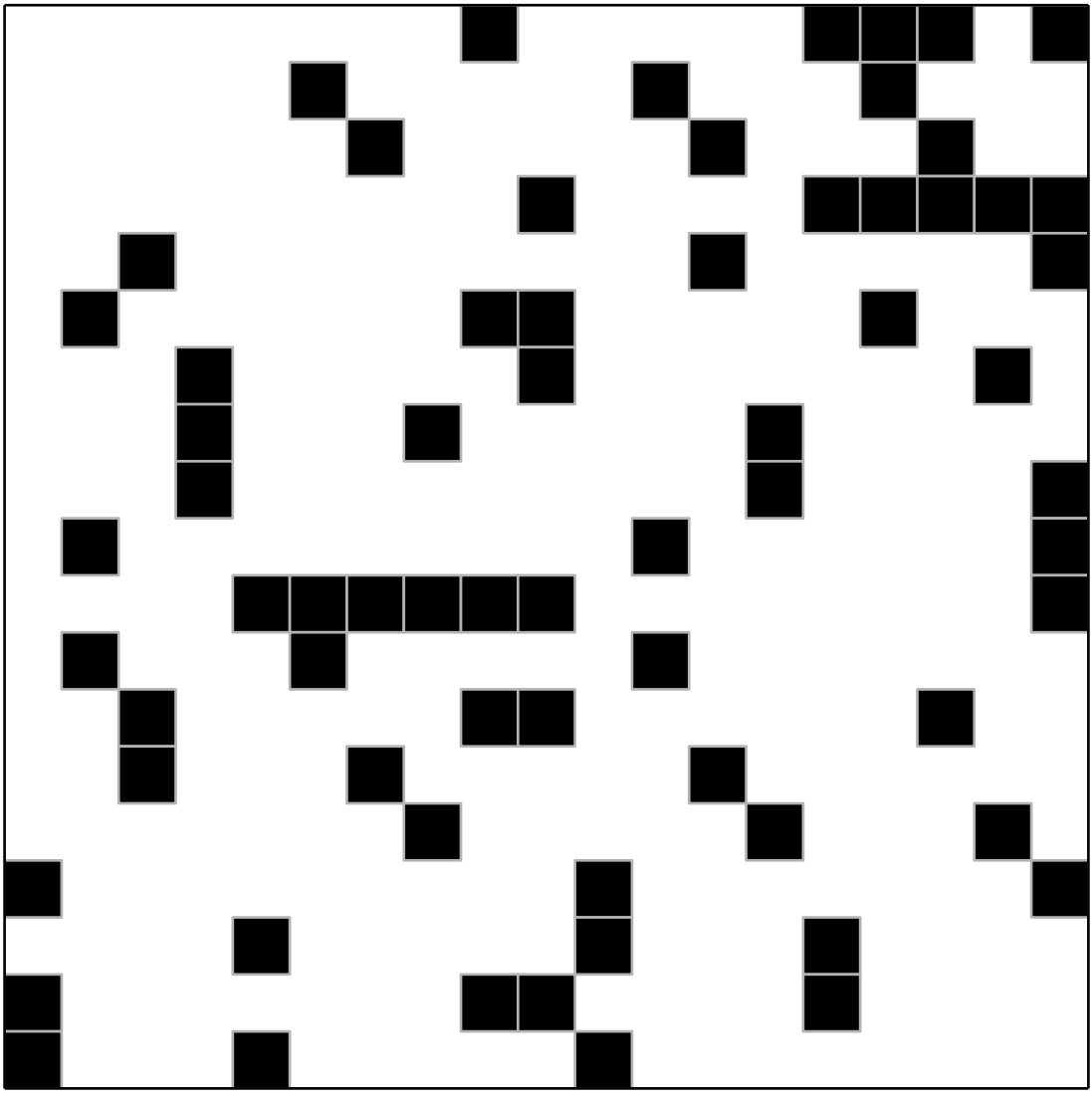
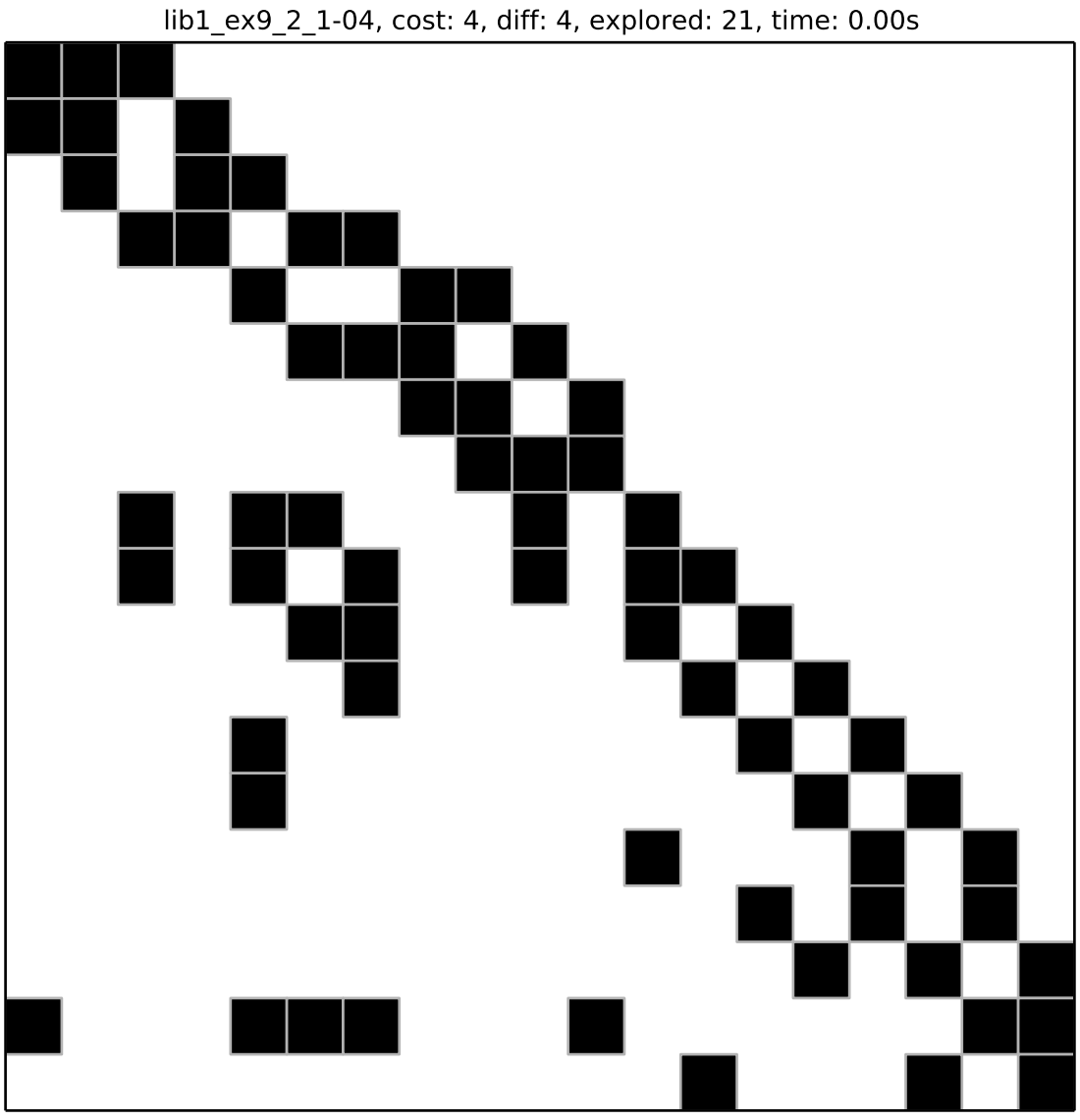
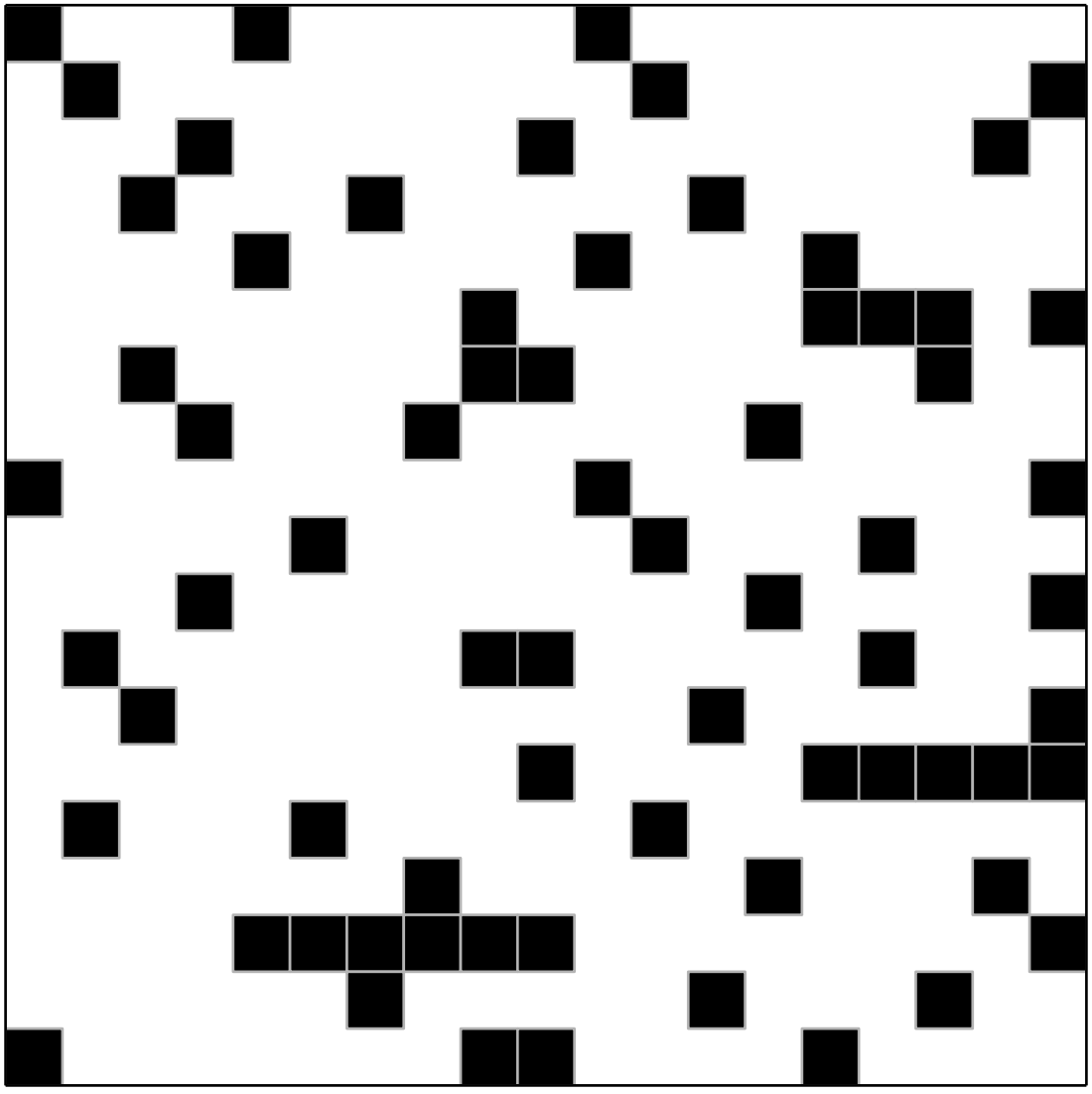
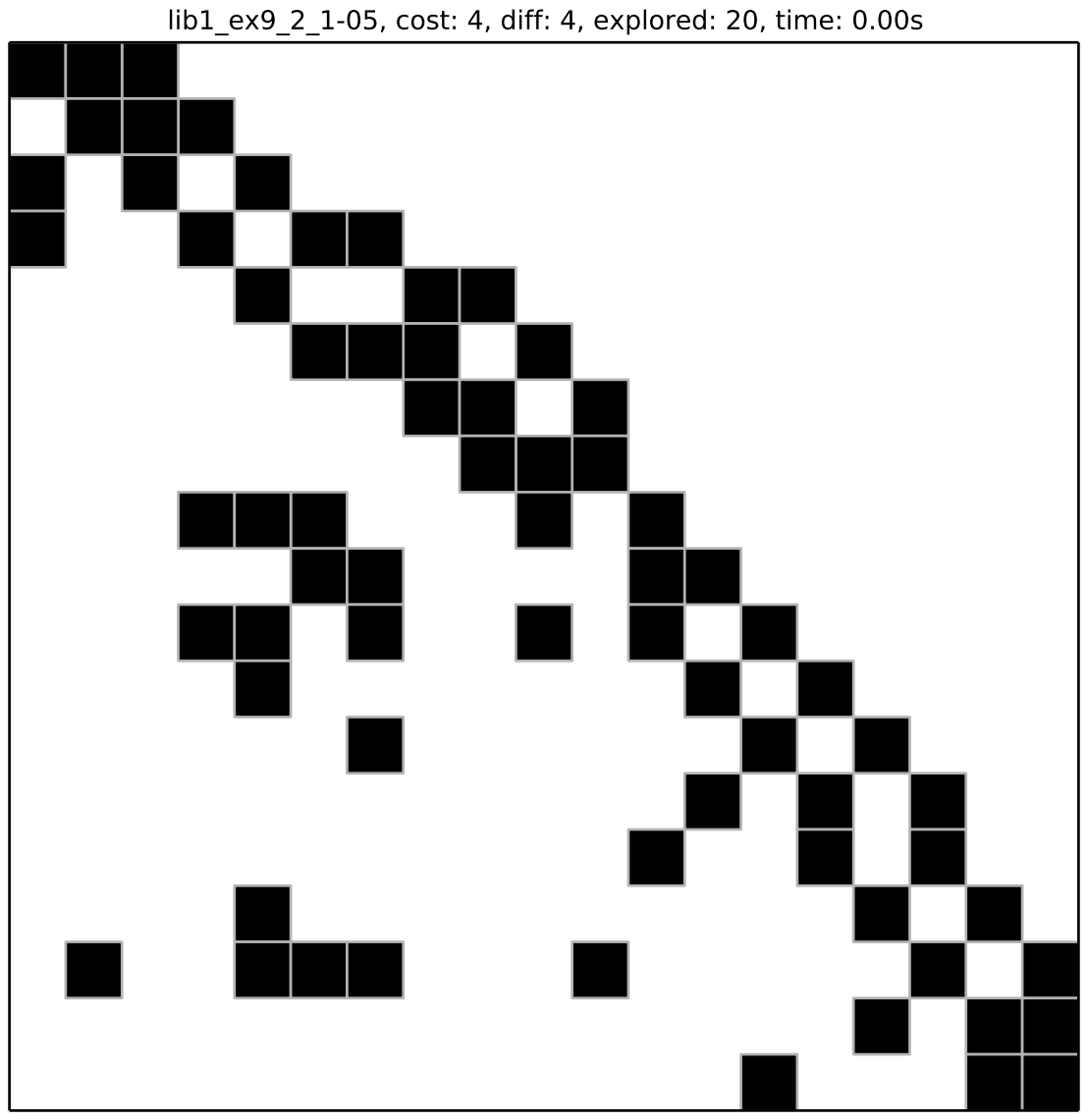
lib1_ex9_2_1-04 19x19 (69) con: 9, var: 10




lib1_ex9_2_1-04, cost: 4, diff: 4, explored: 21, time: 0.00s


lib1_ex9_2_1-05 19x19 (69) con: 9, var: 10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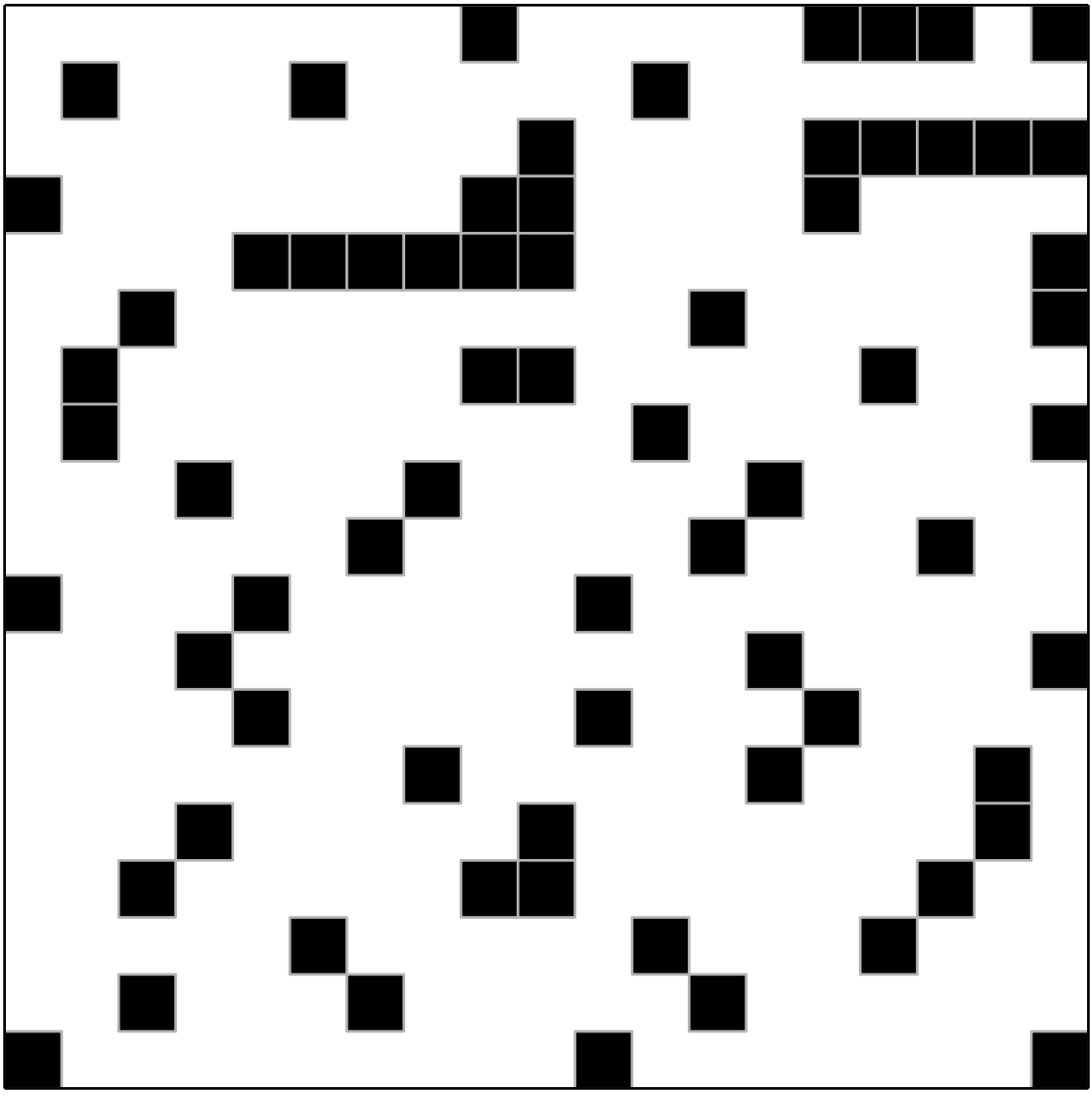
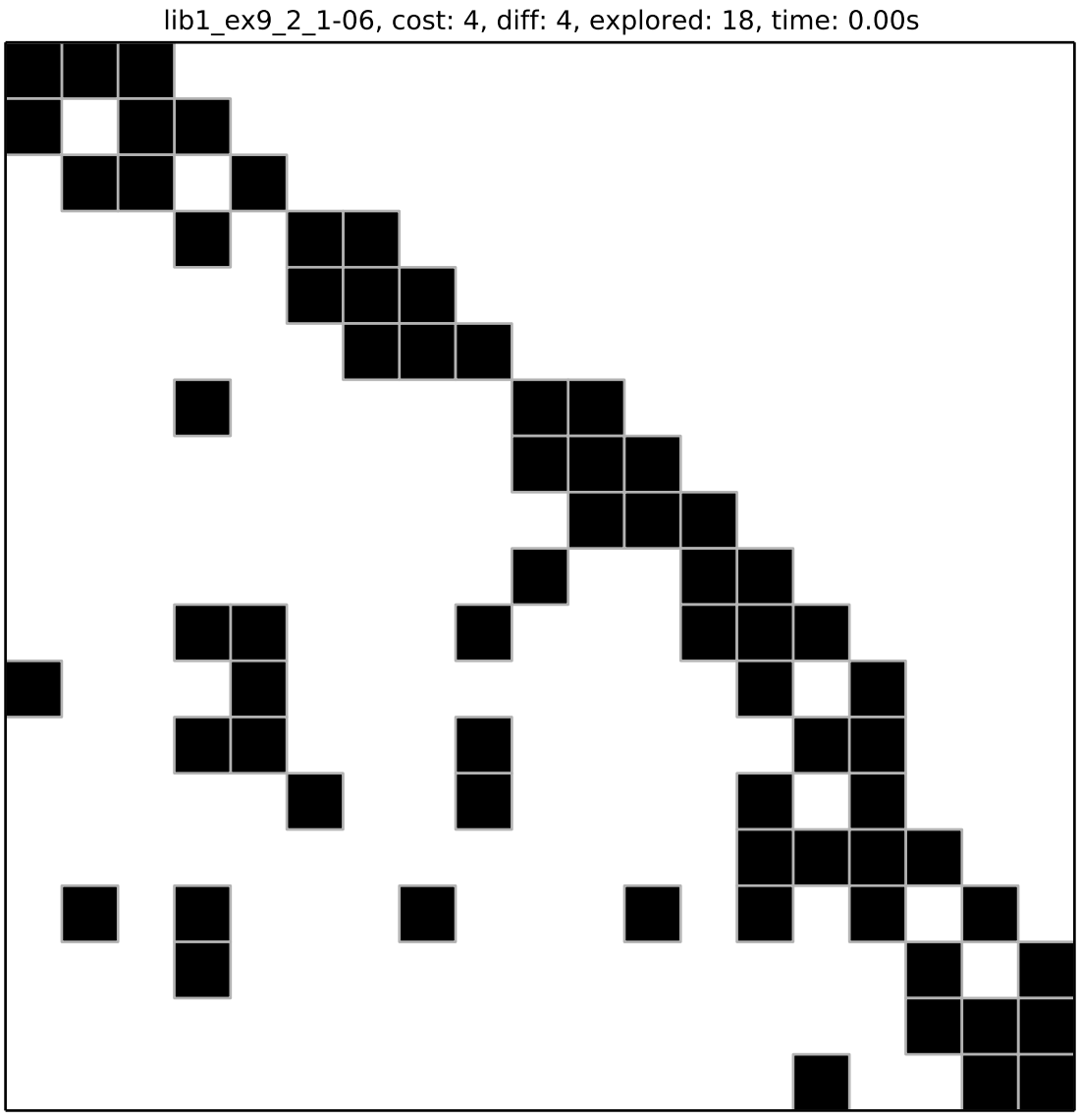
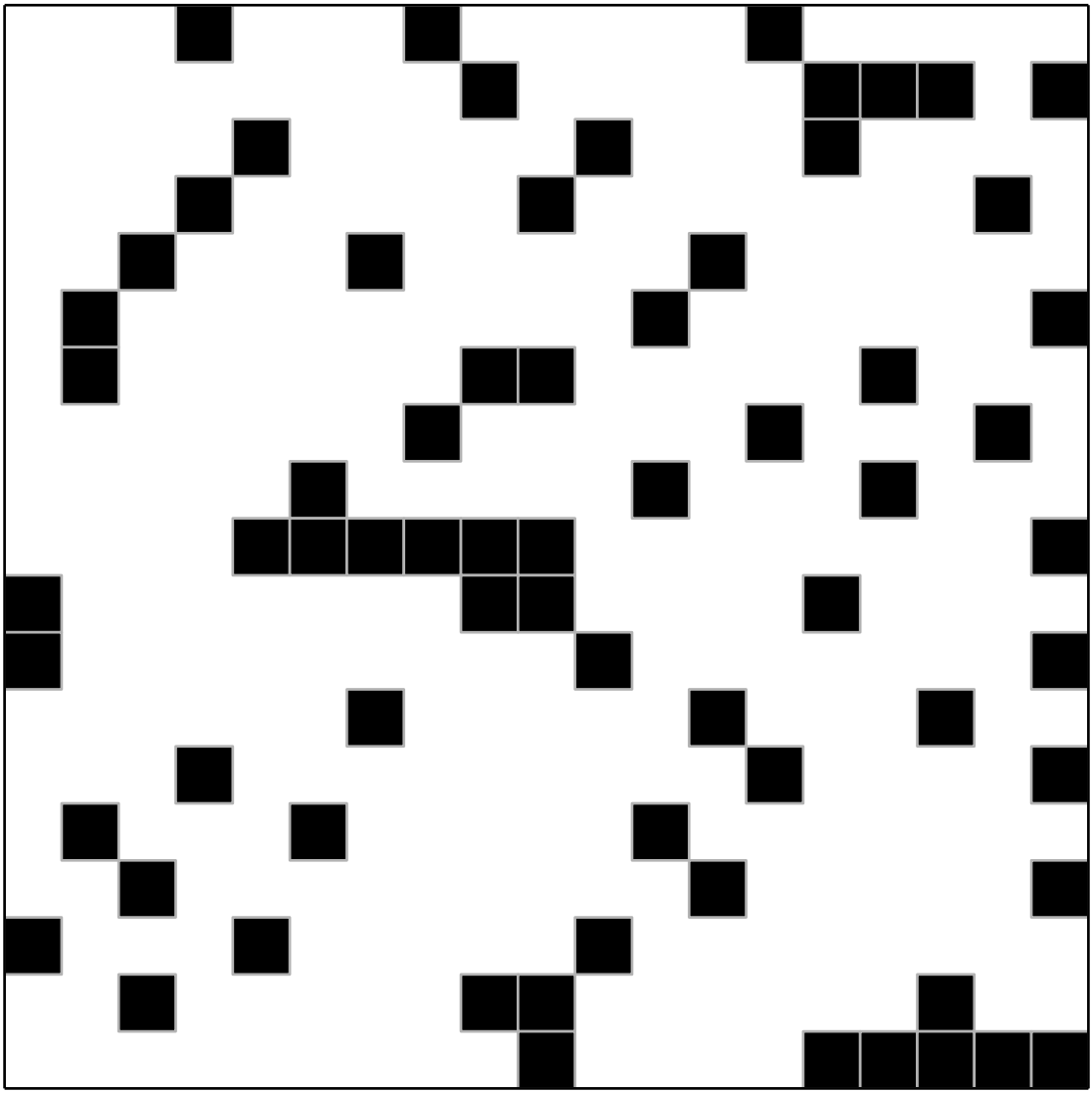
lib1_ex9_2_1-06 19x19 (69) con: 9, var: 10




lib1_ex9_2_1-06, cost: 4, diff: 4, explored: 18, time: 0.00s

lib1_ex9_2_1-07 19x19 (69) con: 9, var: 10



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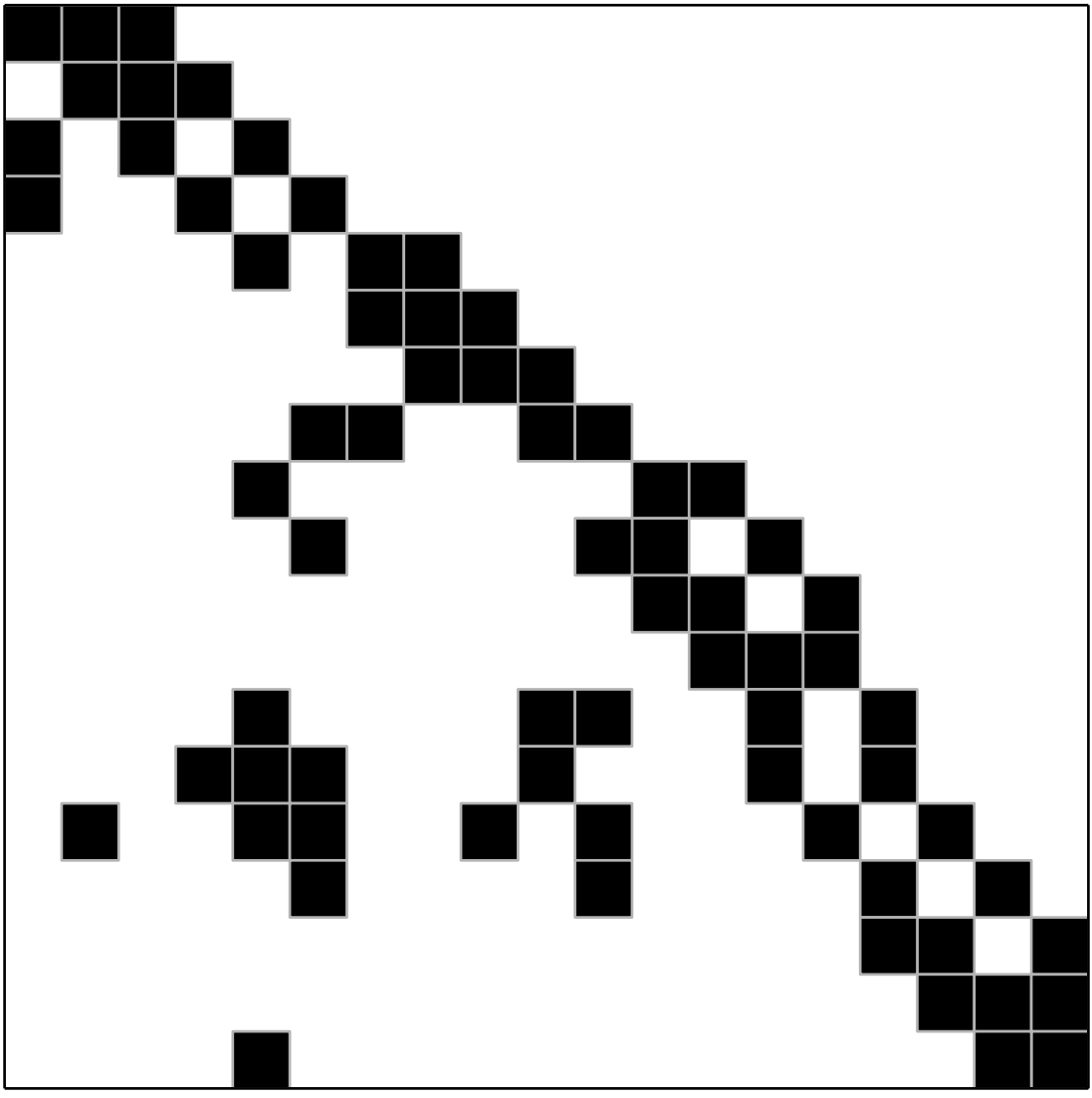

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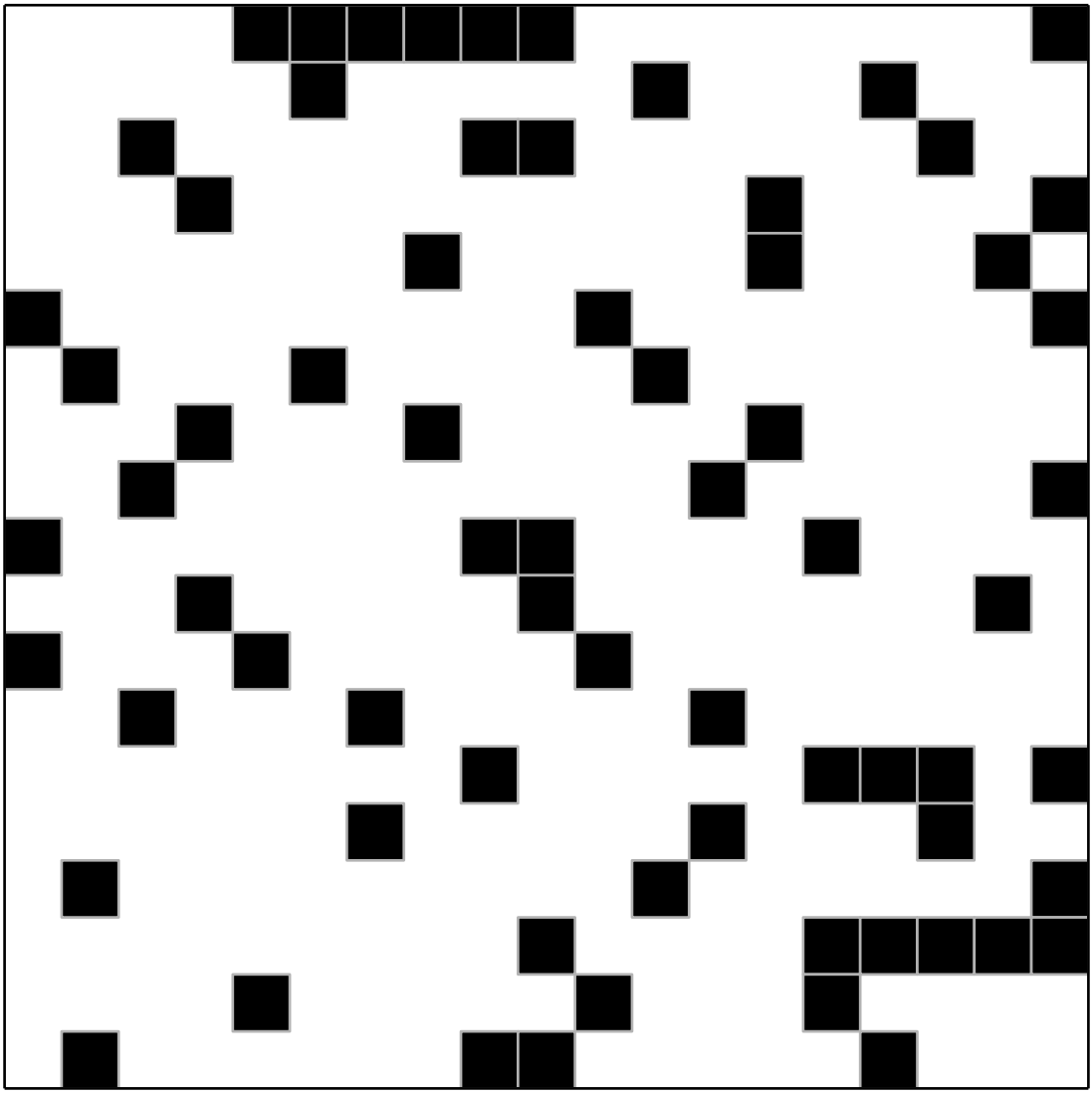

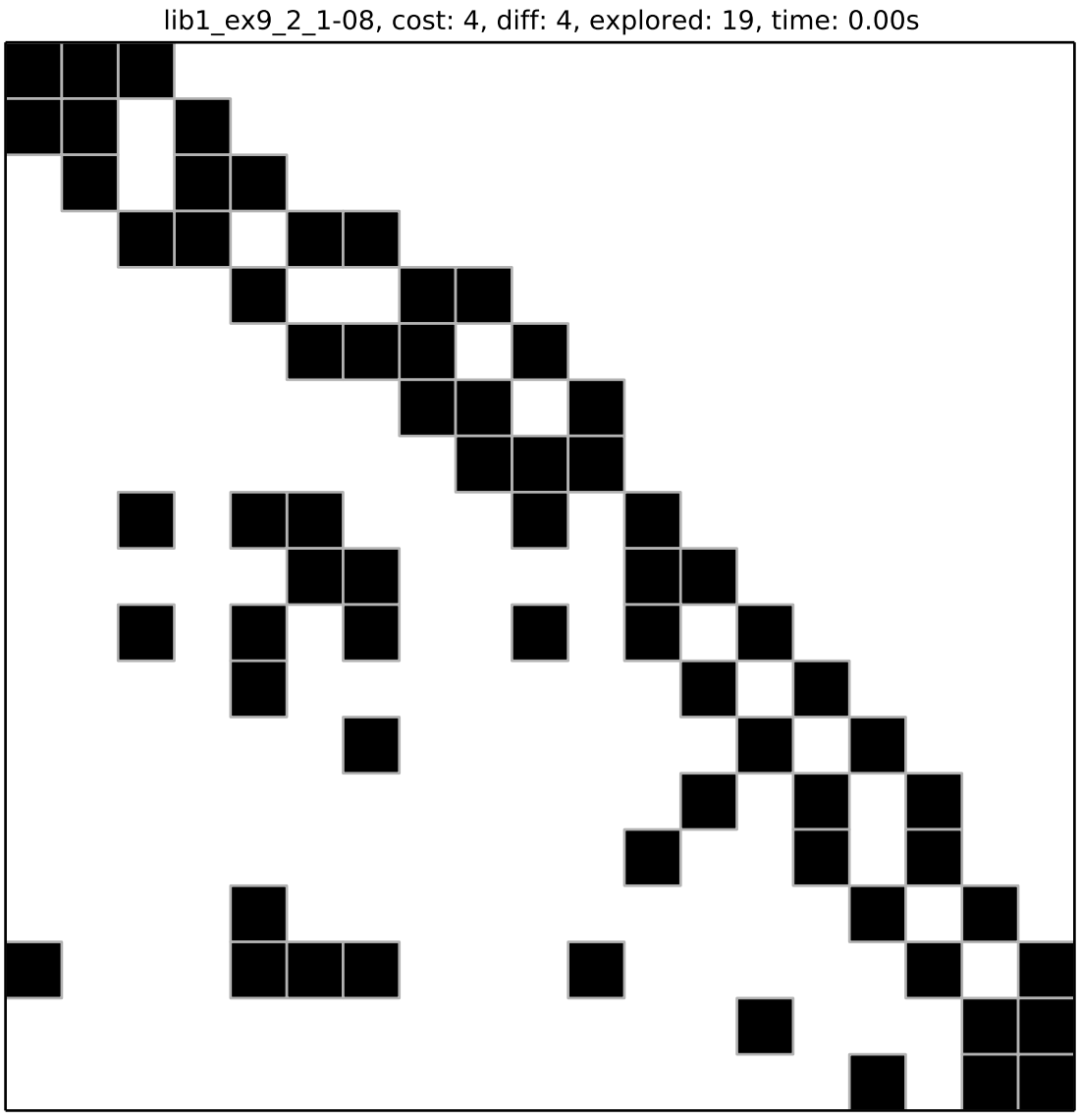
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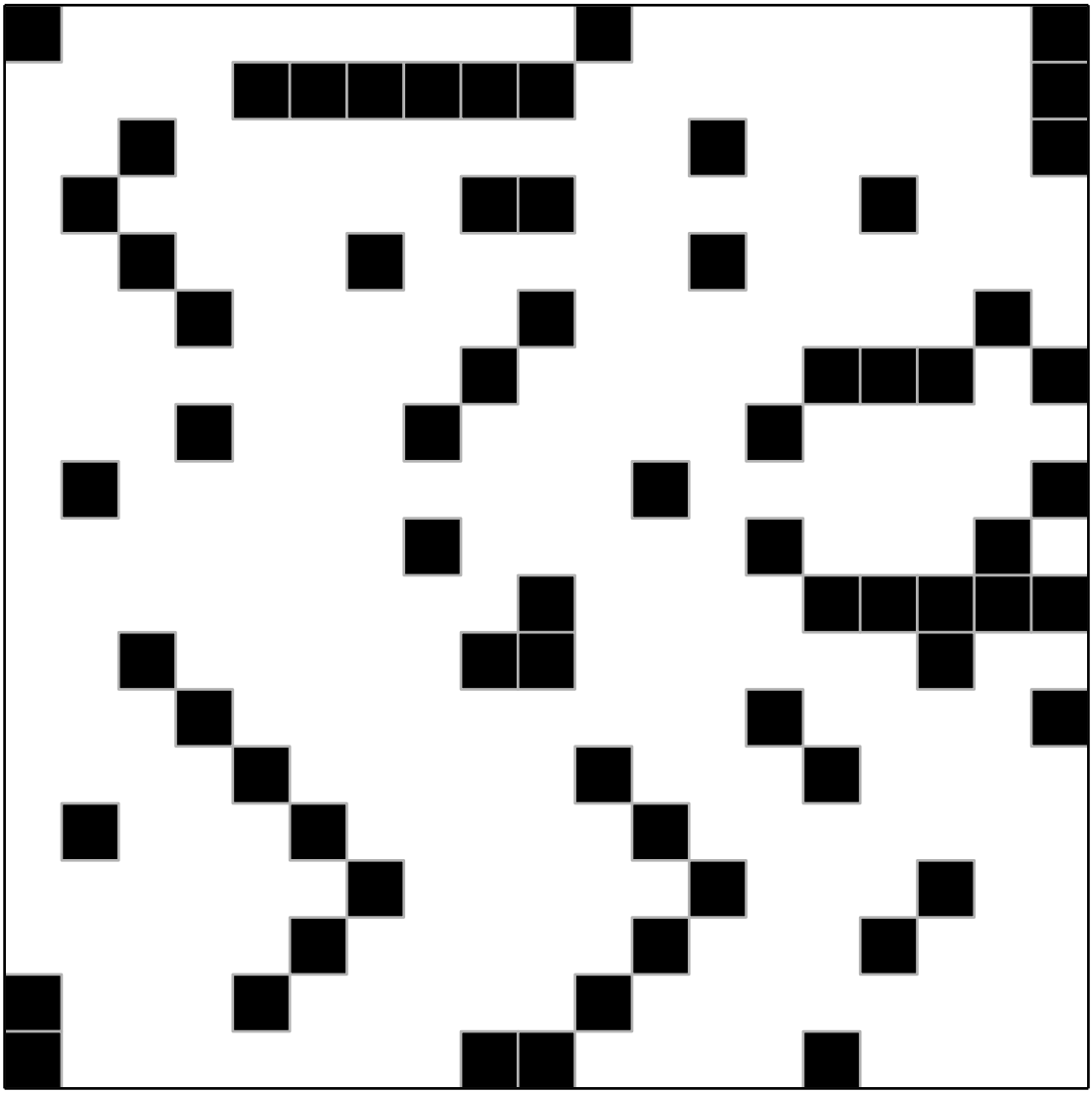
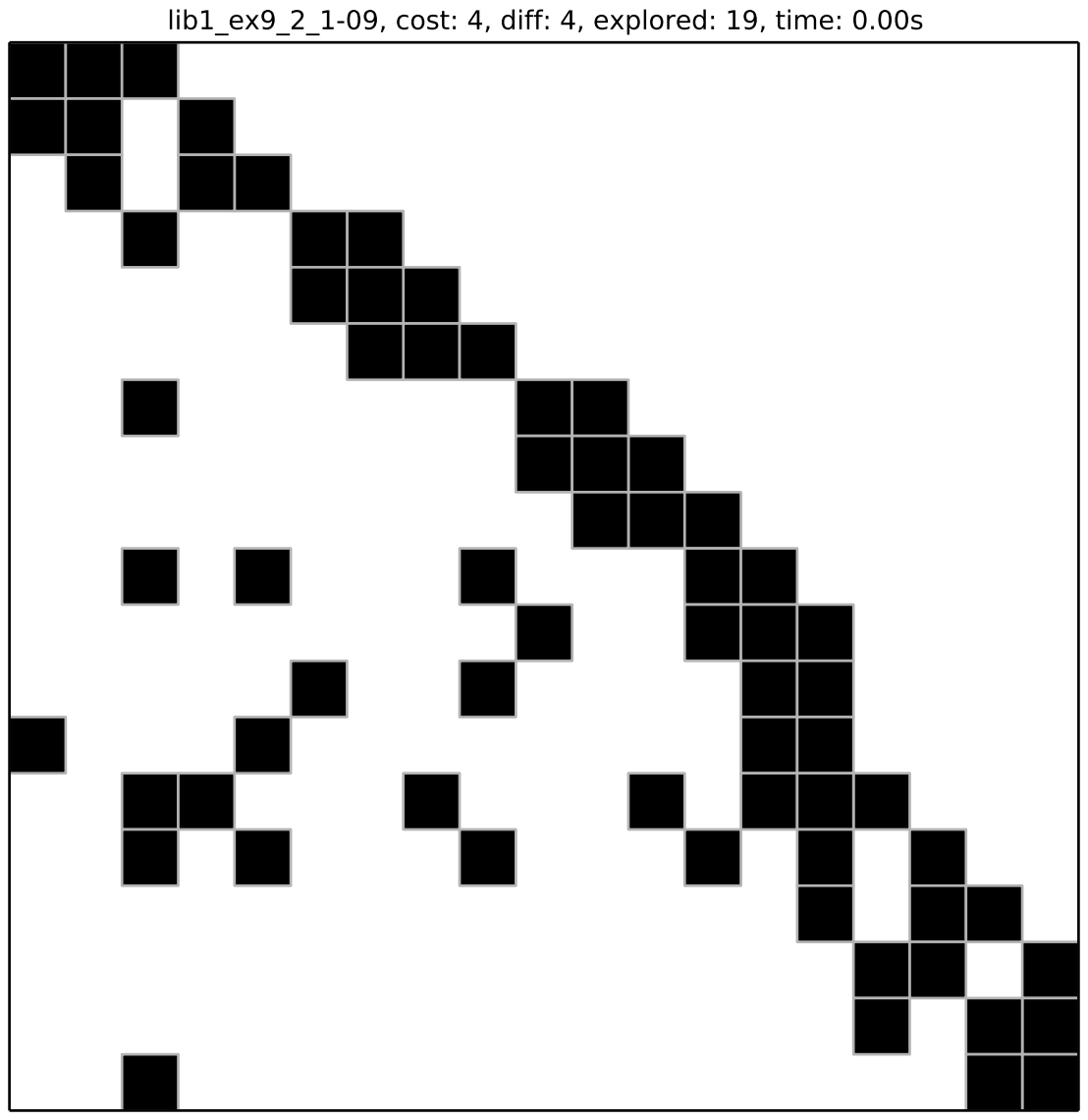
lib1_ex9_2_1-09 19x19 (69) con: 9, var: 10

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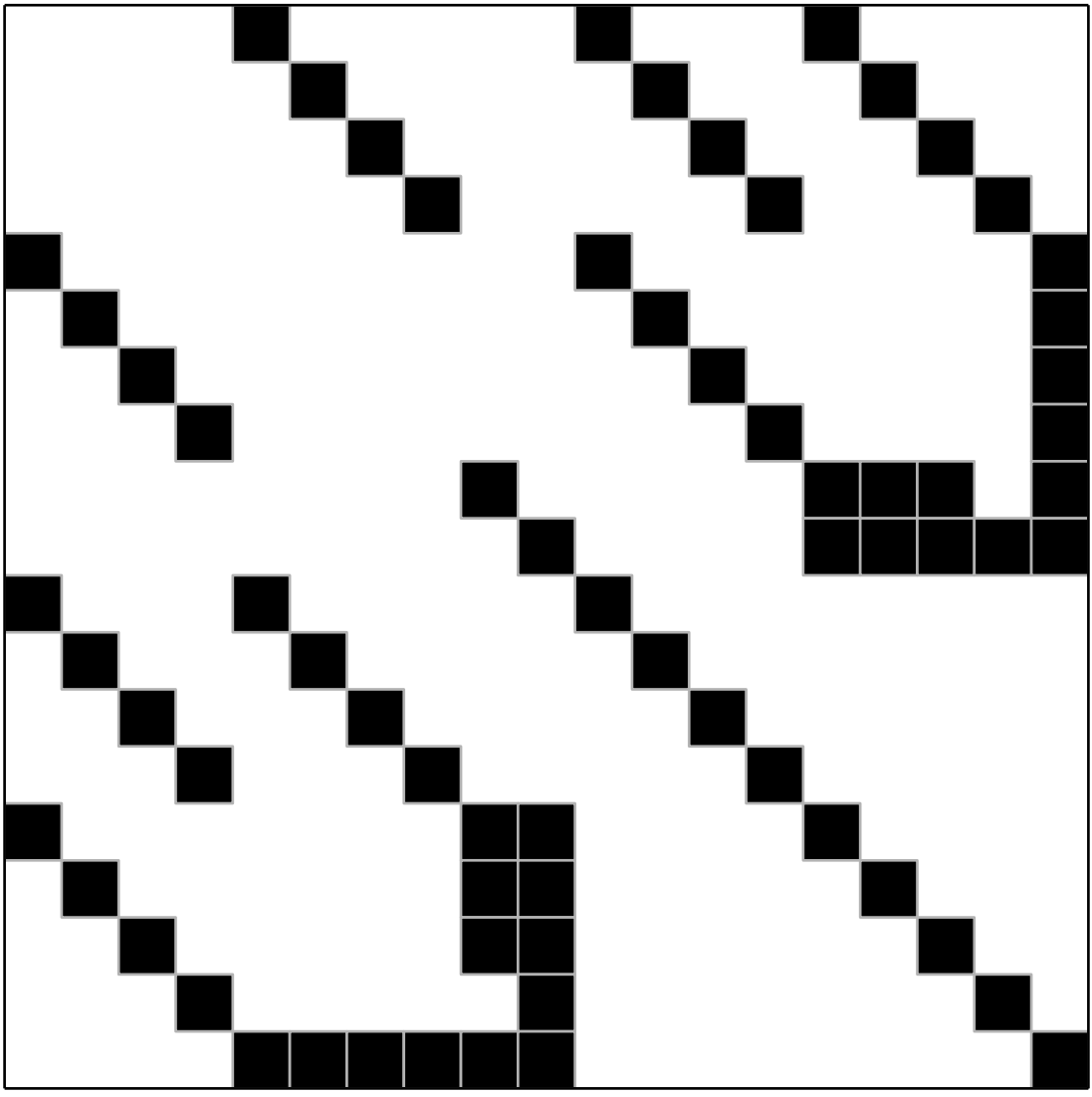
lib1_ex9_2_1-IN 19x19 (69) con: 9, var: 10



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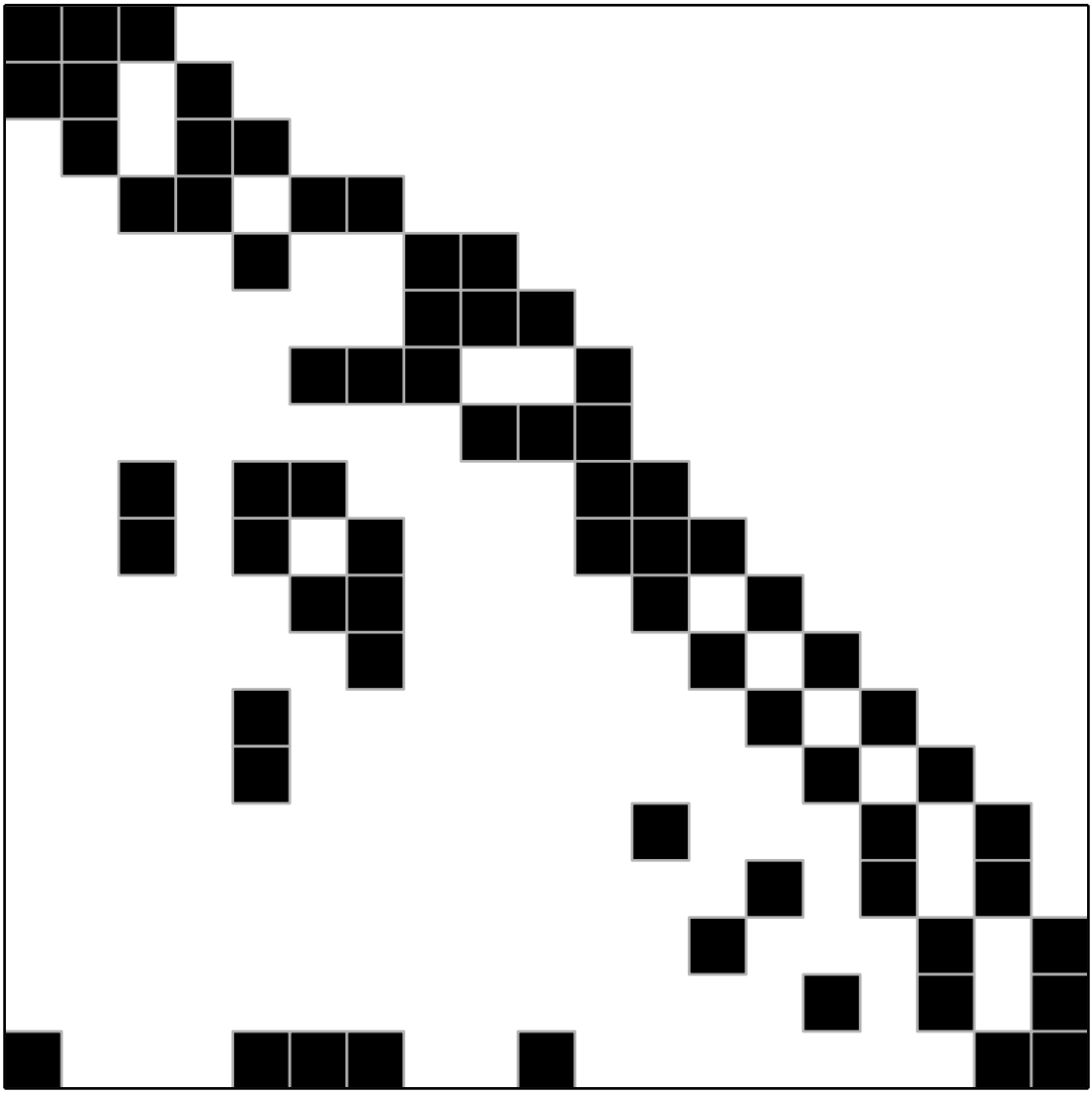
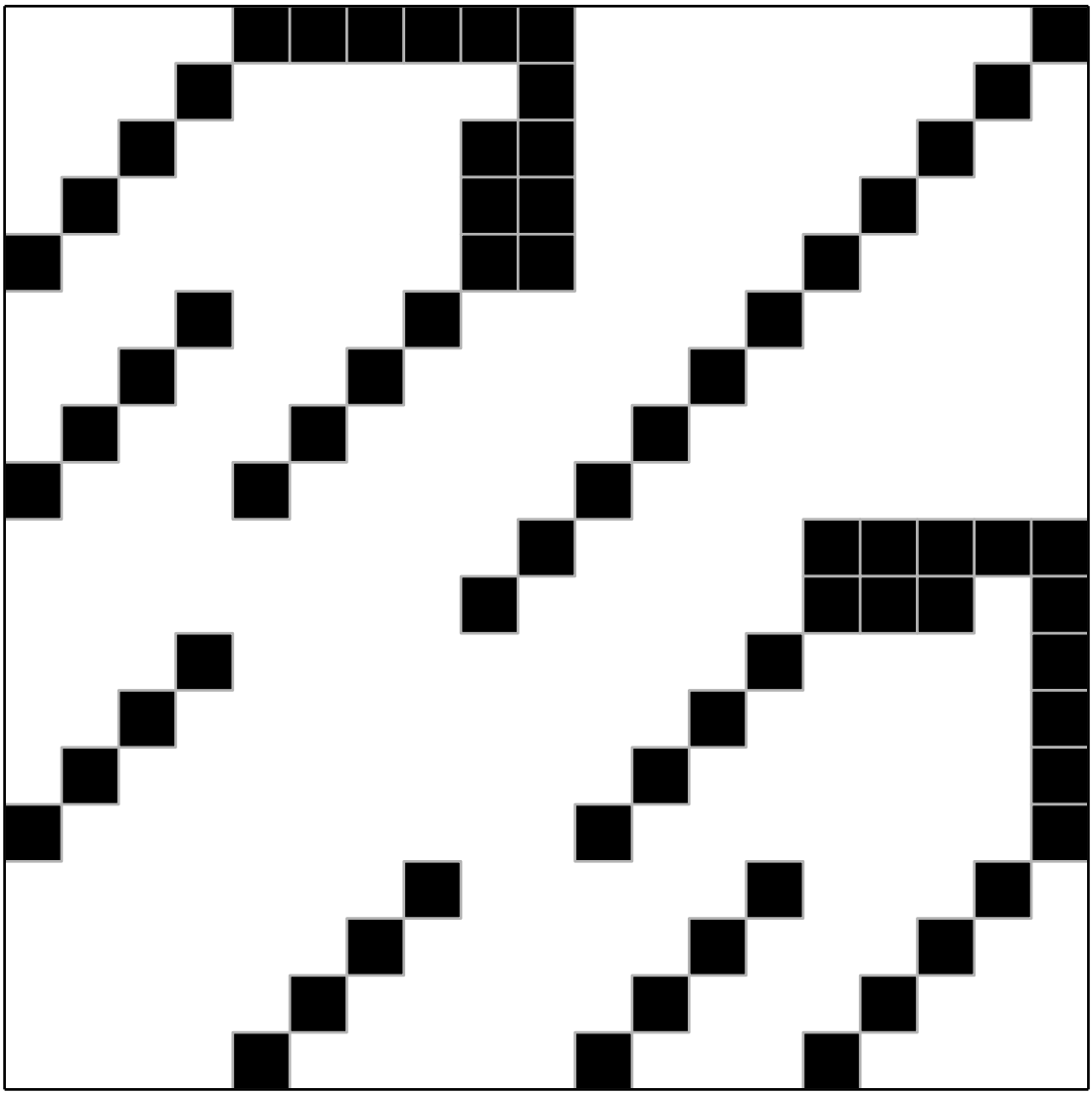
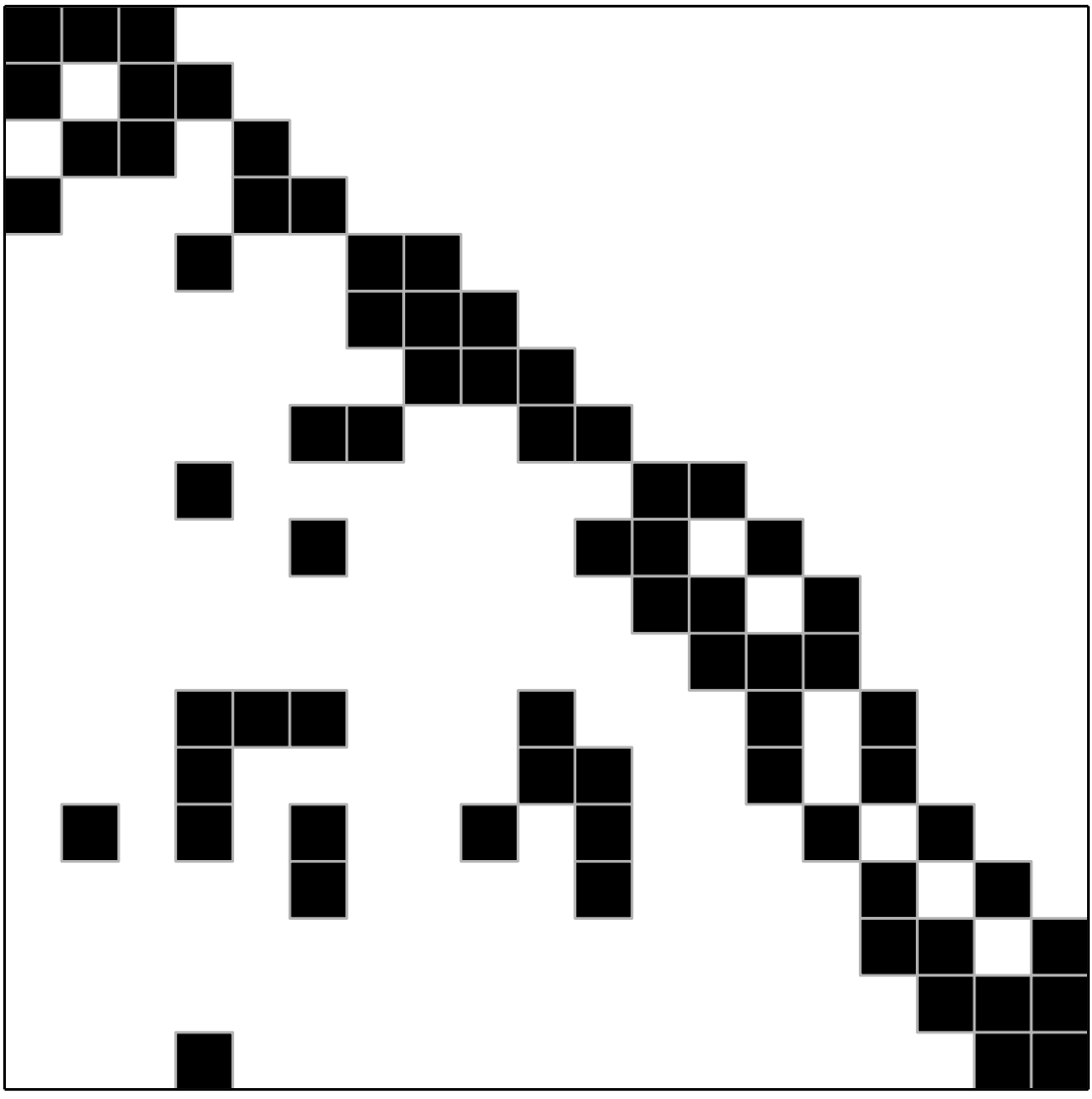
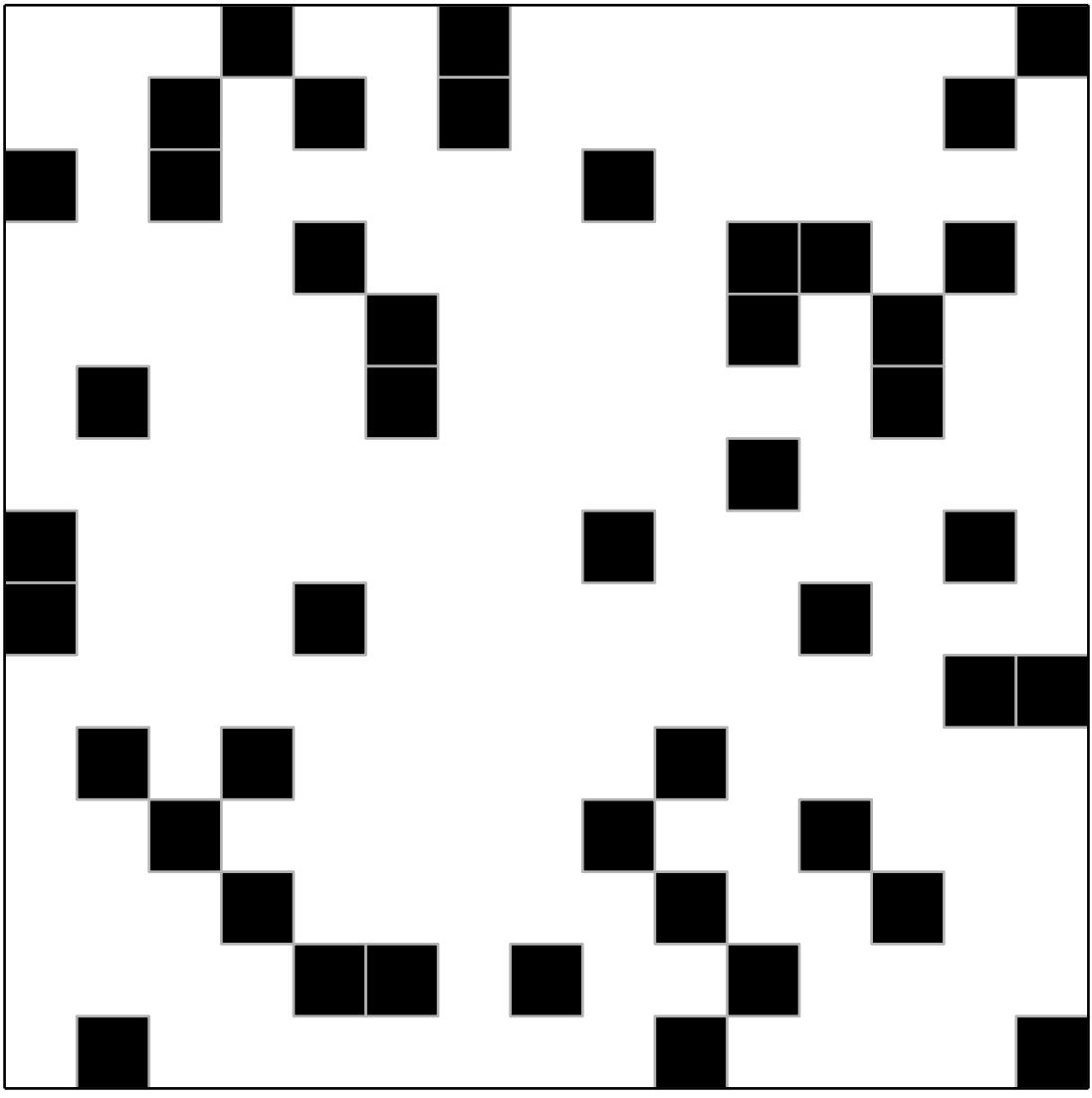
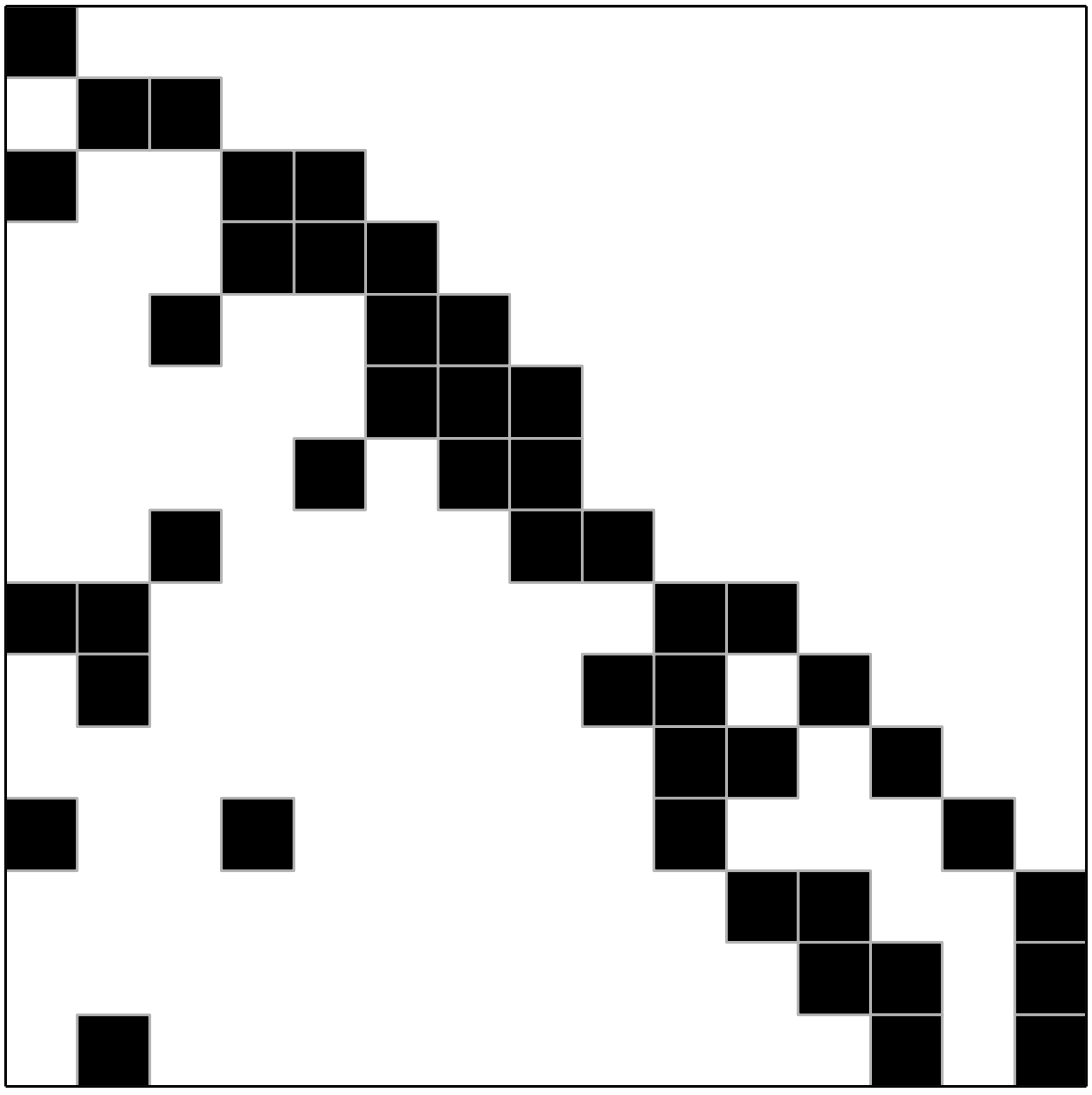



lib1_ex9_2_1-RE 19x19 (69) con: 9, var: 10

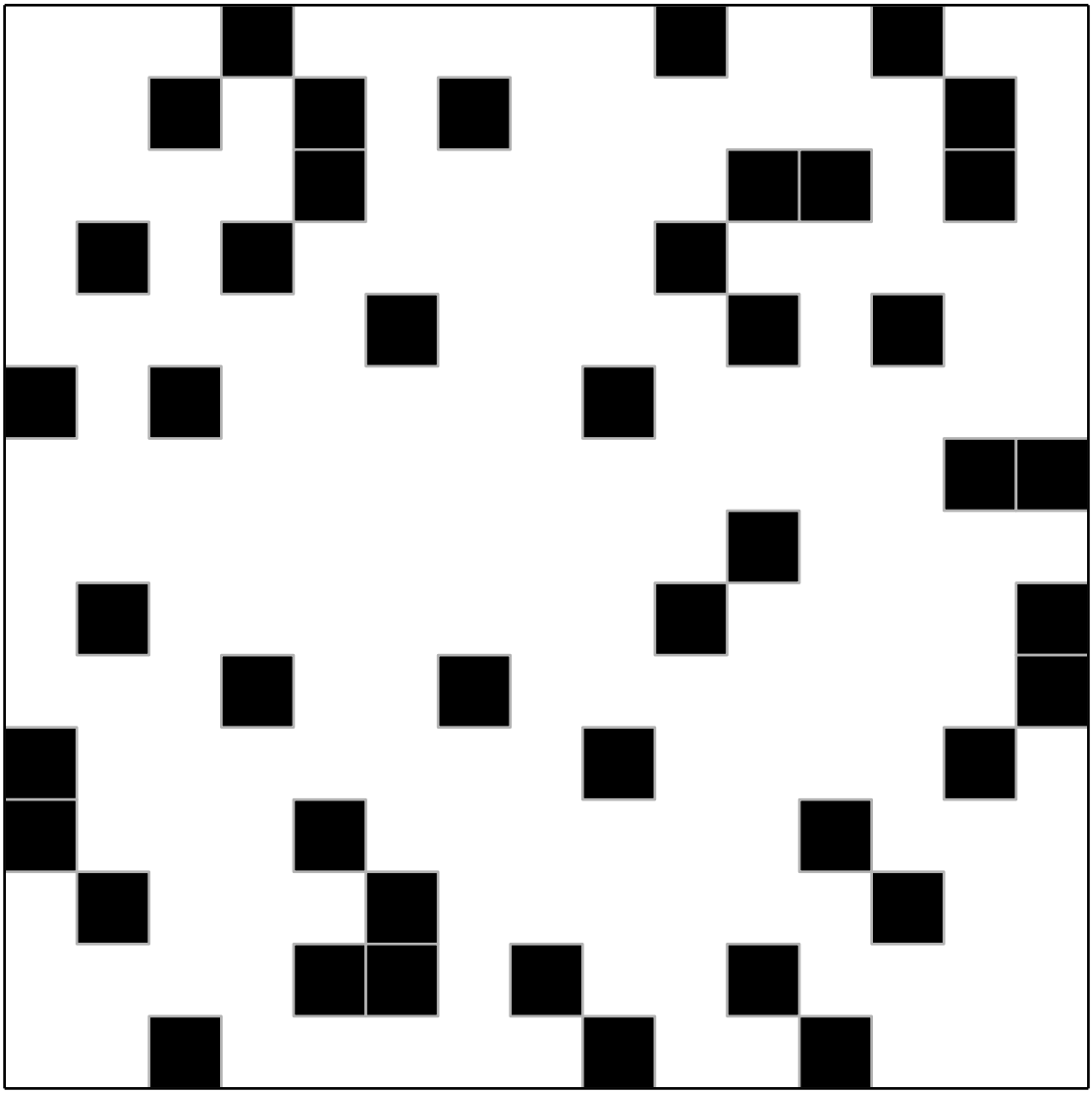

lib1_ex9_2_1-RE, cost: 4, diff: 4, explored: 20, time: 0.01s

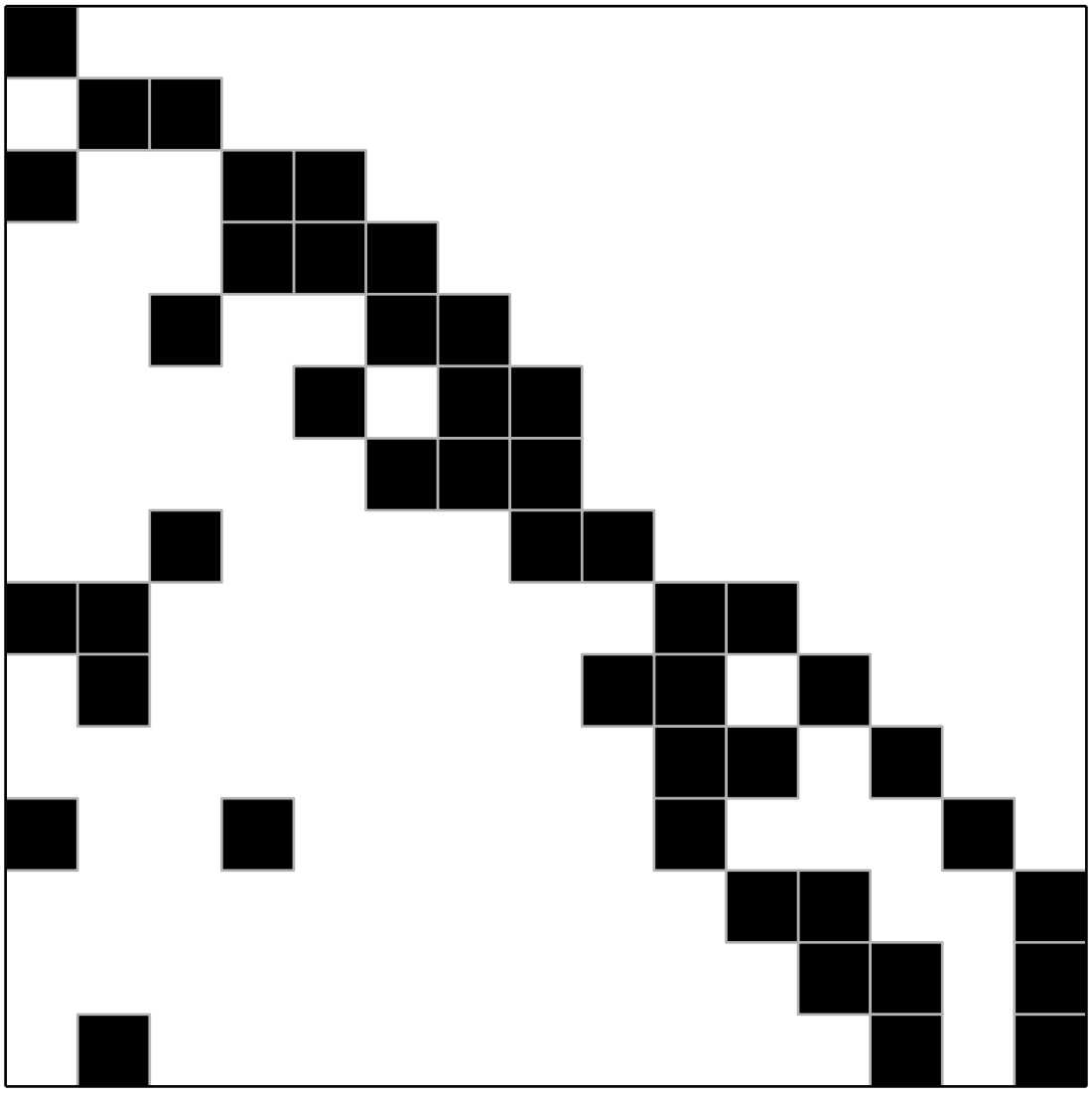
lib1_ex9_2_4-00 15x15 (45) con: 7, var: 8




lib1_ex9_2_4-00, cost: 3, diff: 3, explored: 8, time: 0.00s

lib1_ex9_2_4-01 15x15 (45) con: 7, var: 8

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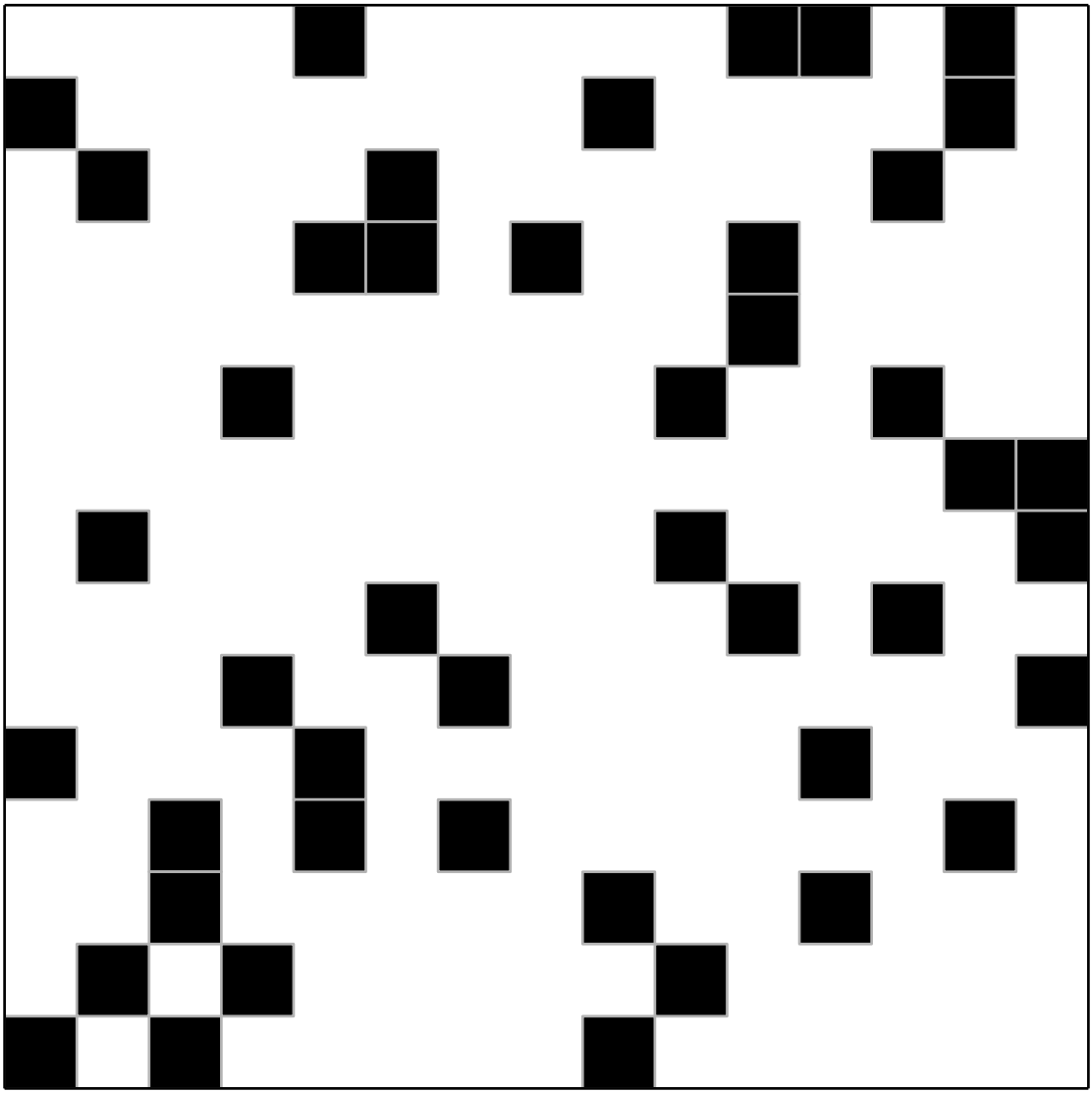
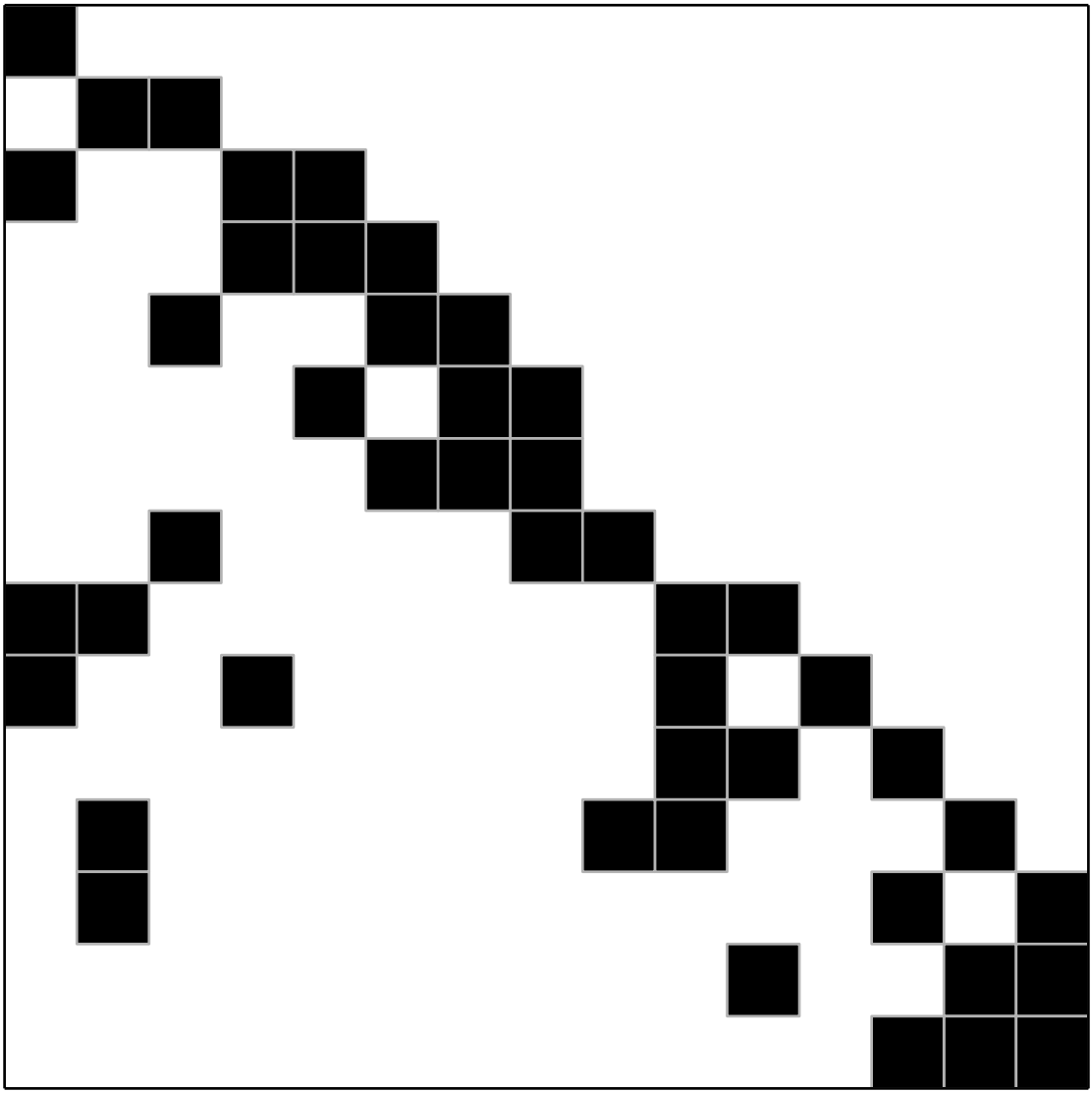
lib1_ex9_2_4-02 15x15 (45) con: 7, var: 8

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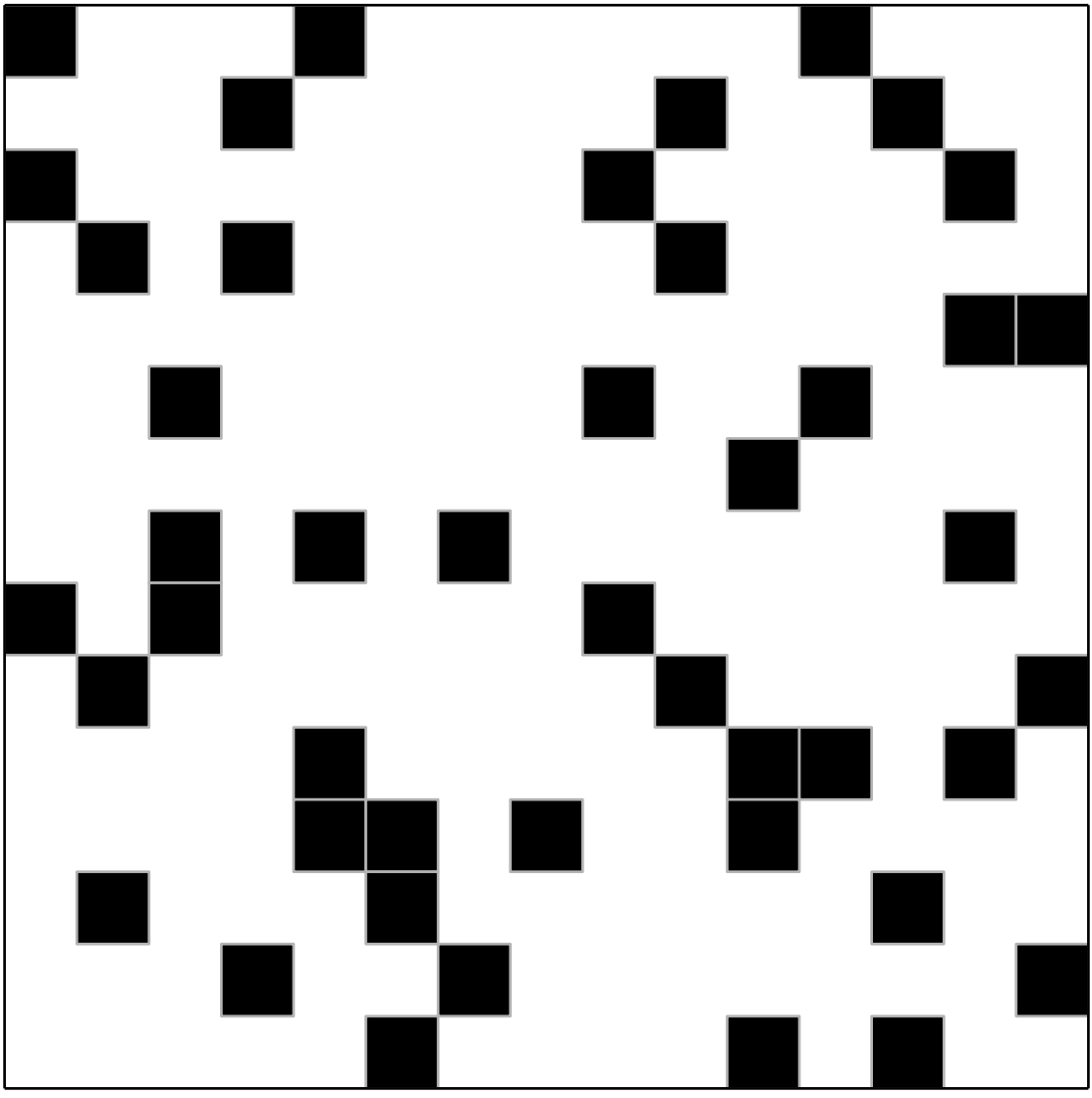
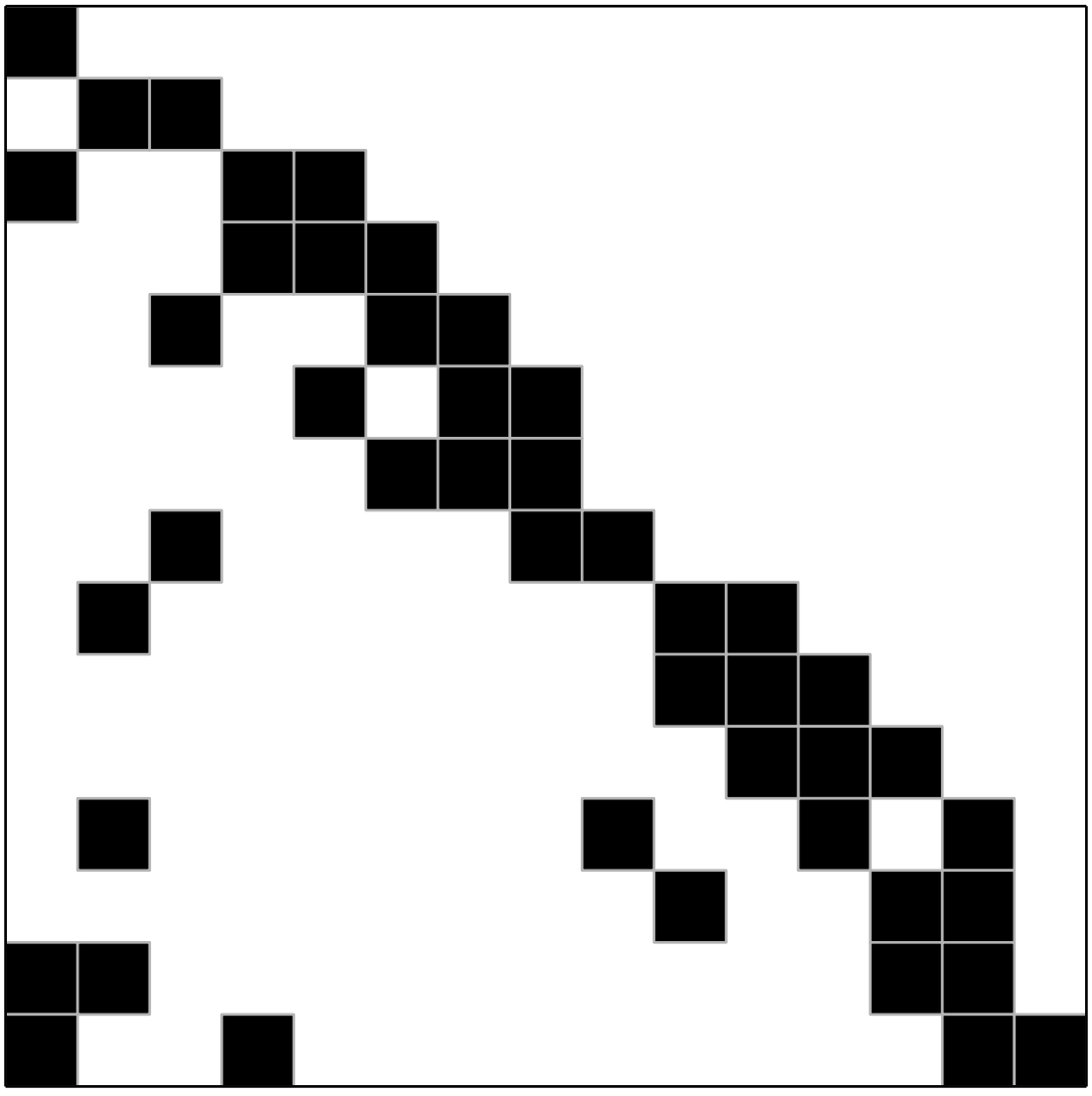
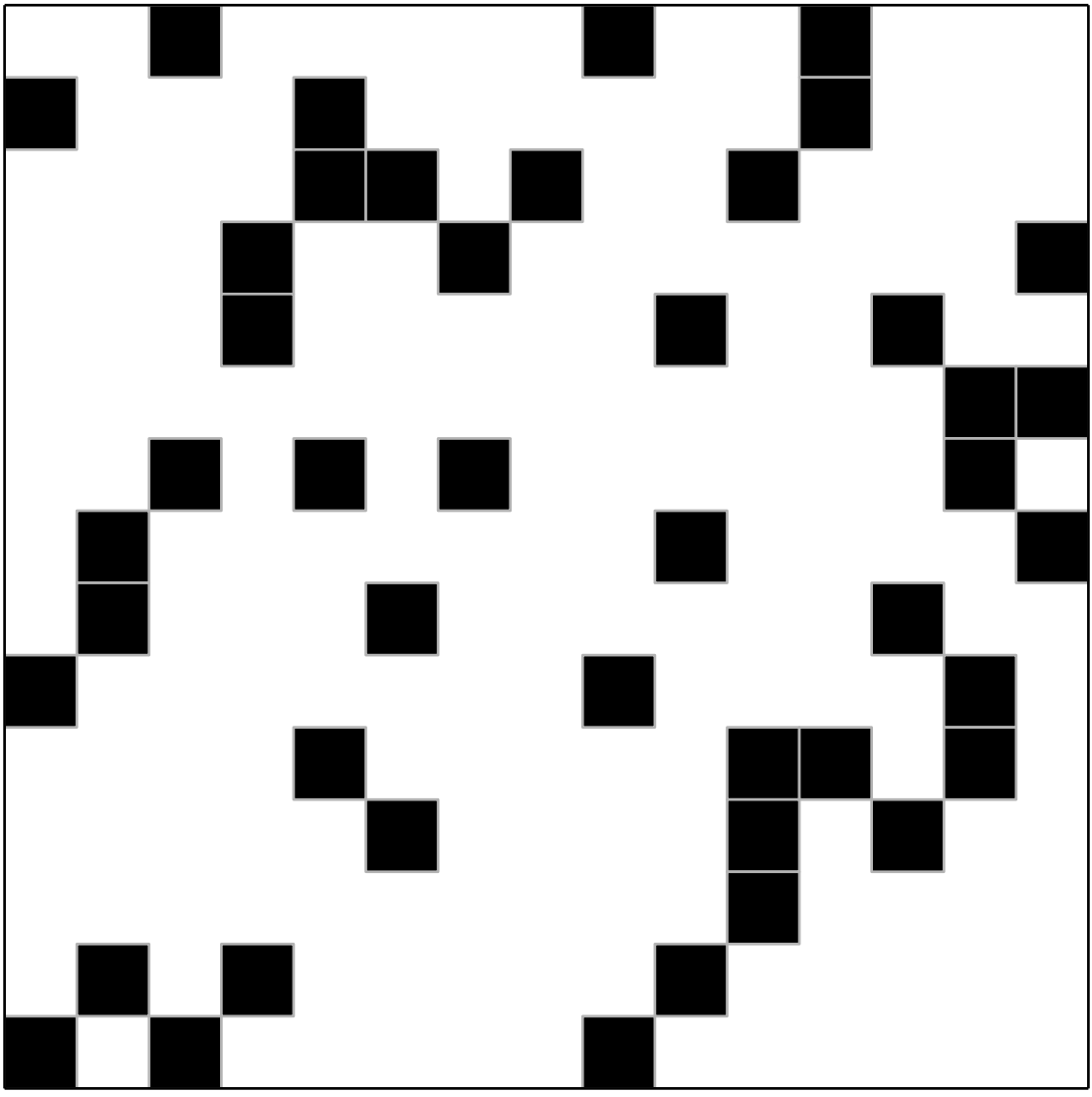
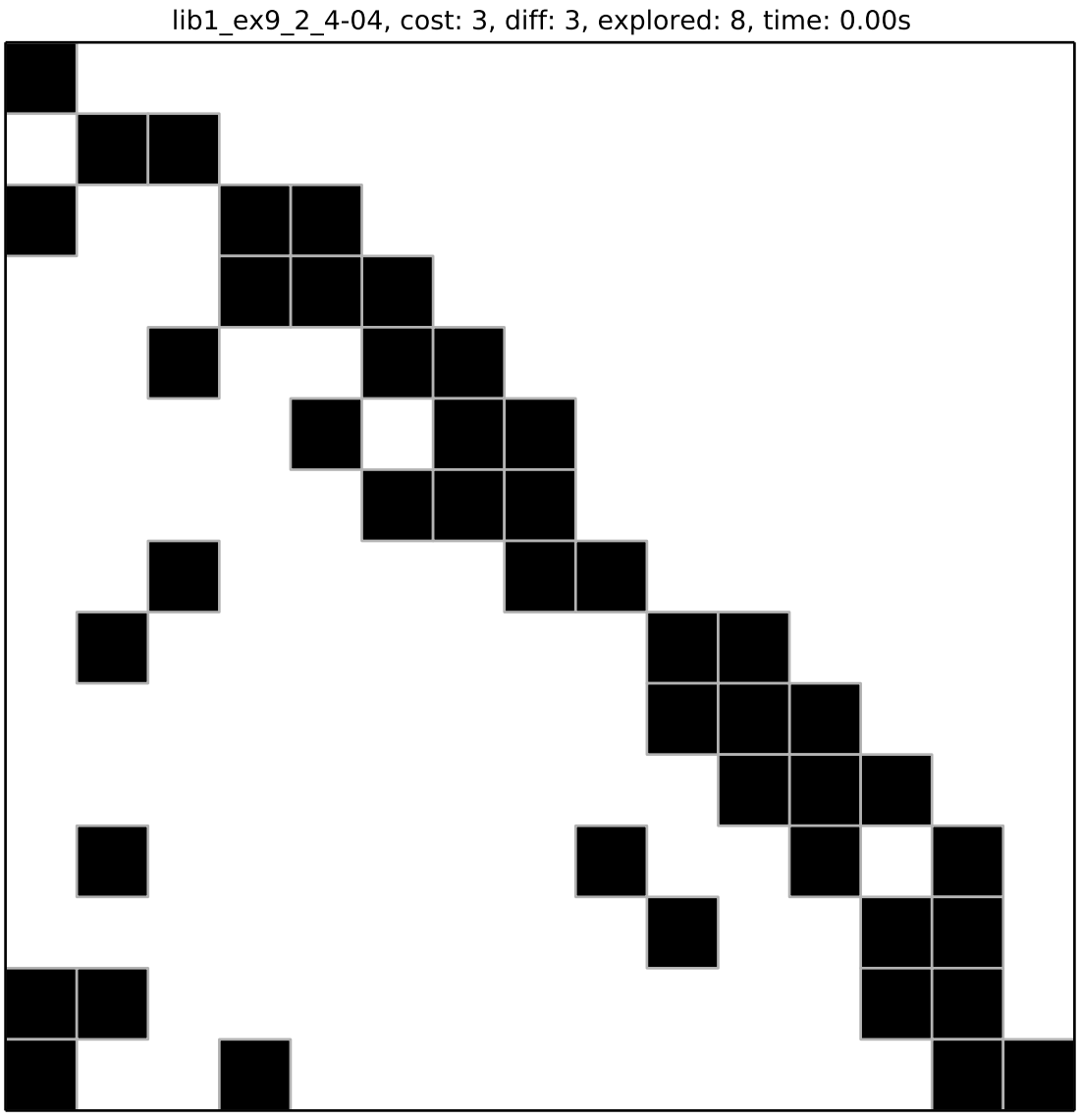
lib1_ex9_2_4-03 15x15 (45) con: 7, var: 8




lib1_ex9_2_4-03, cost: 3, diff: 3, explored: 8, time: 0.00s

lib1_ex9_2_4-04 15x15 (45) con: 7, var: 8

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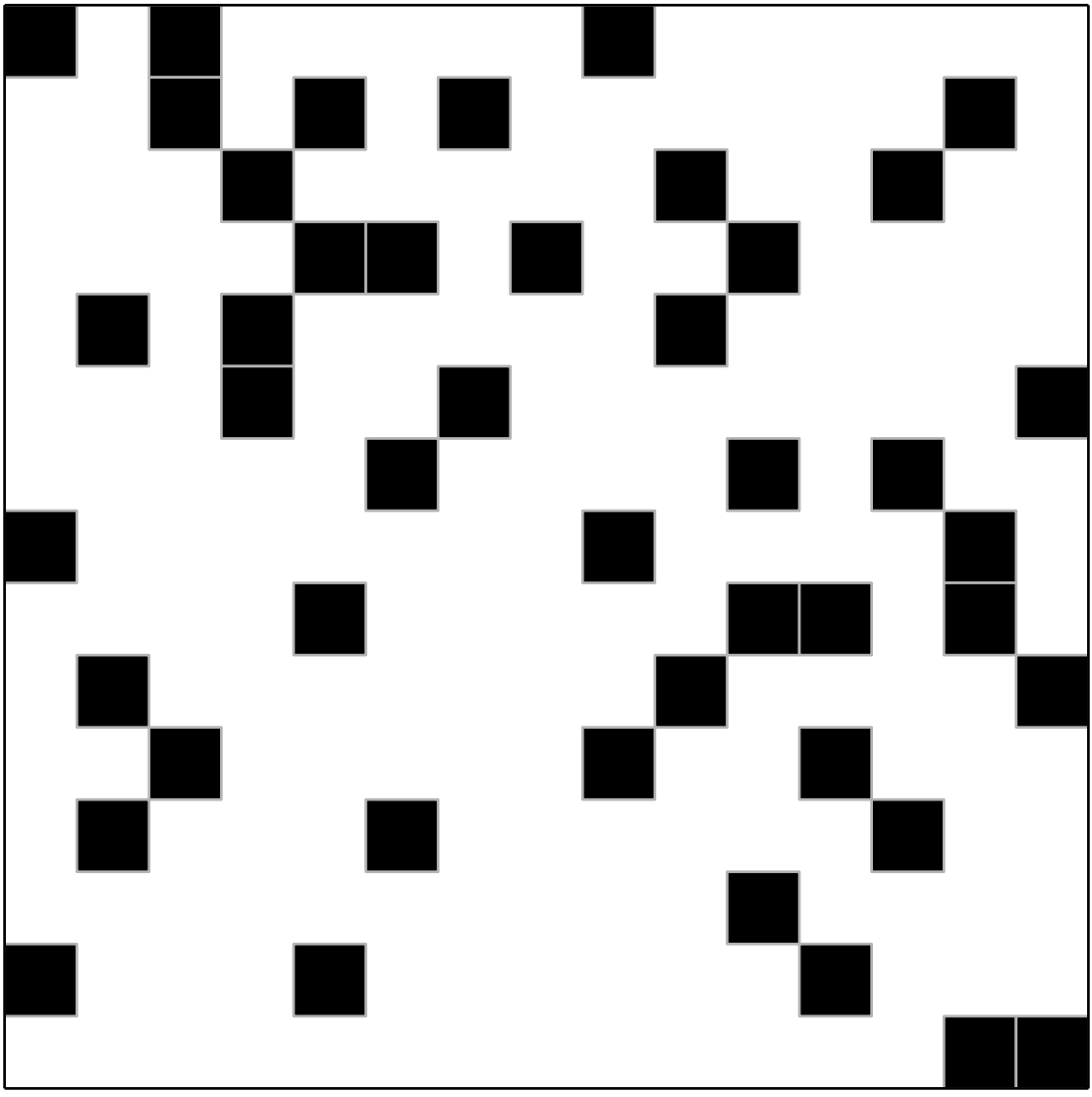

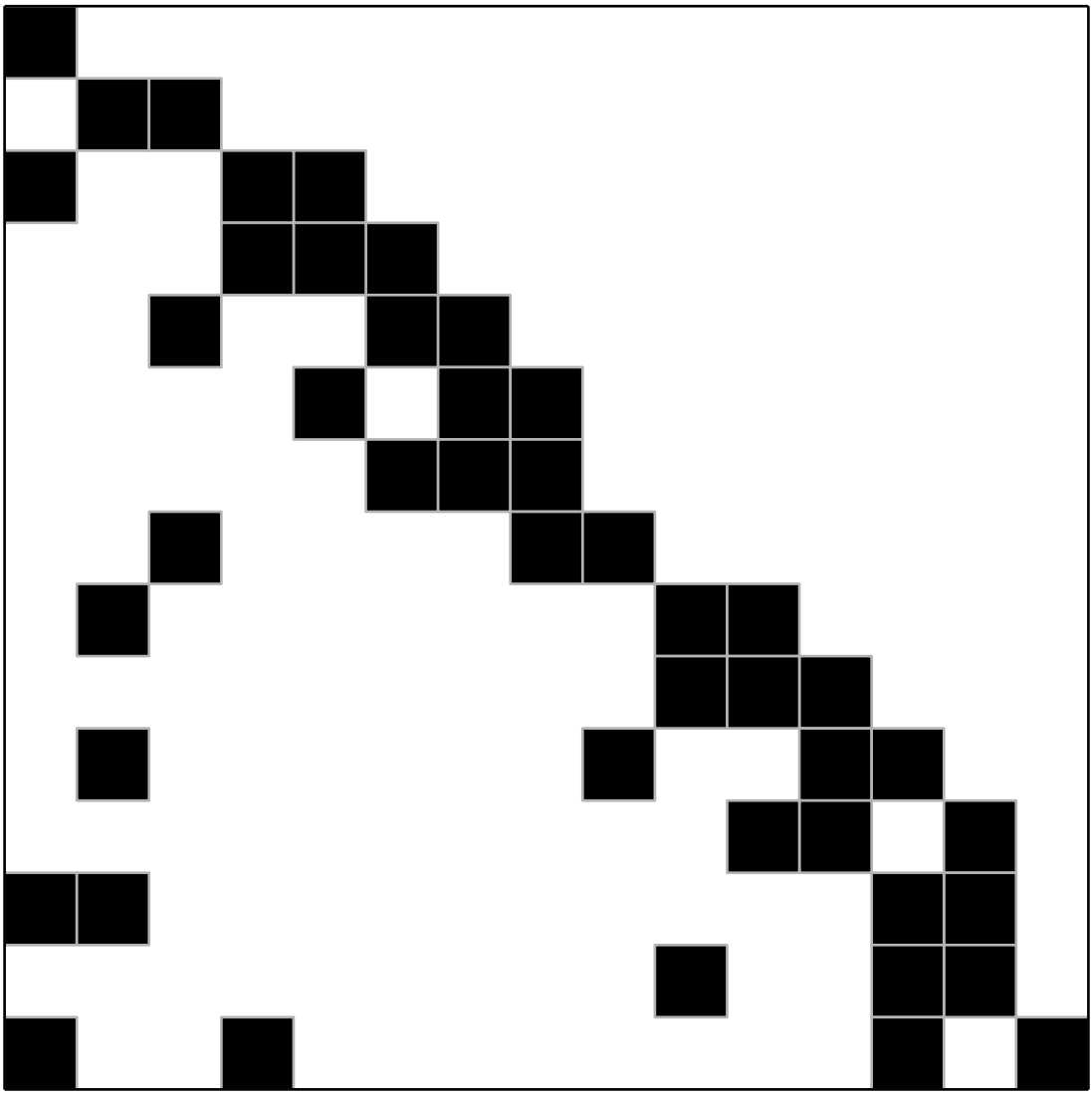
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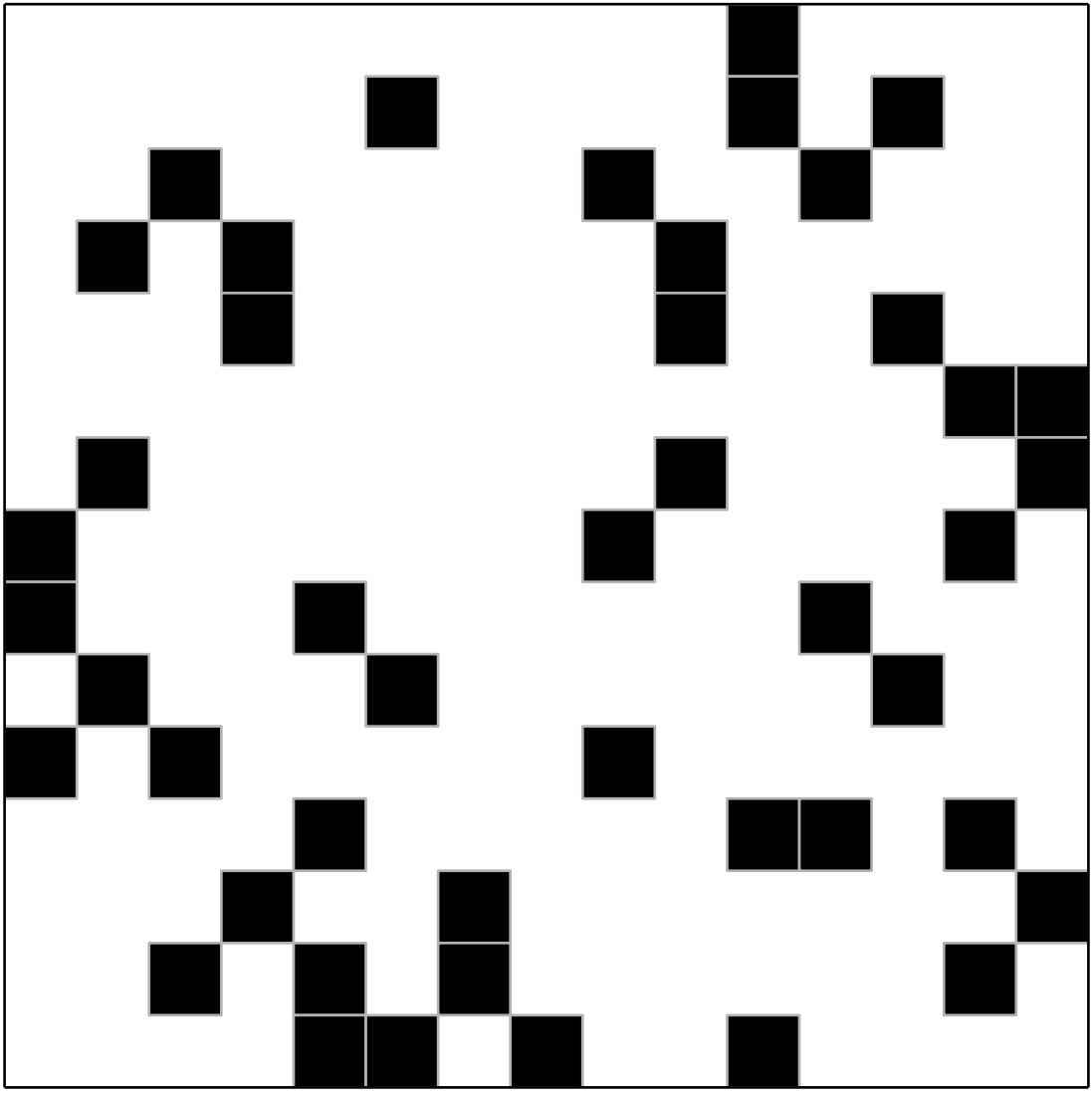
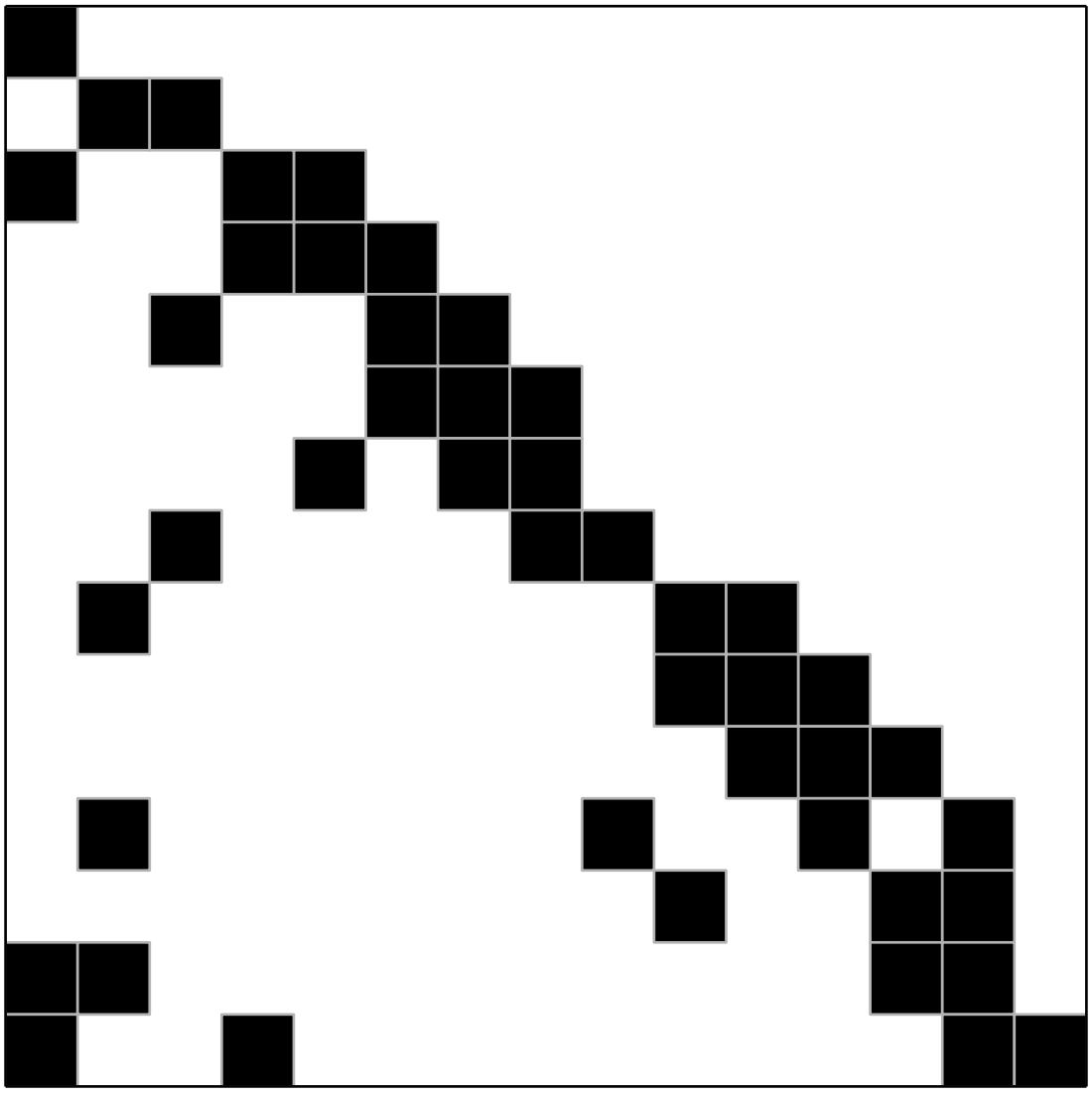
lib1_ex9_2_4-06 15x15 (45) con: 7, var: 8

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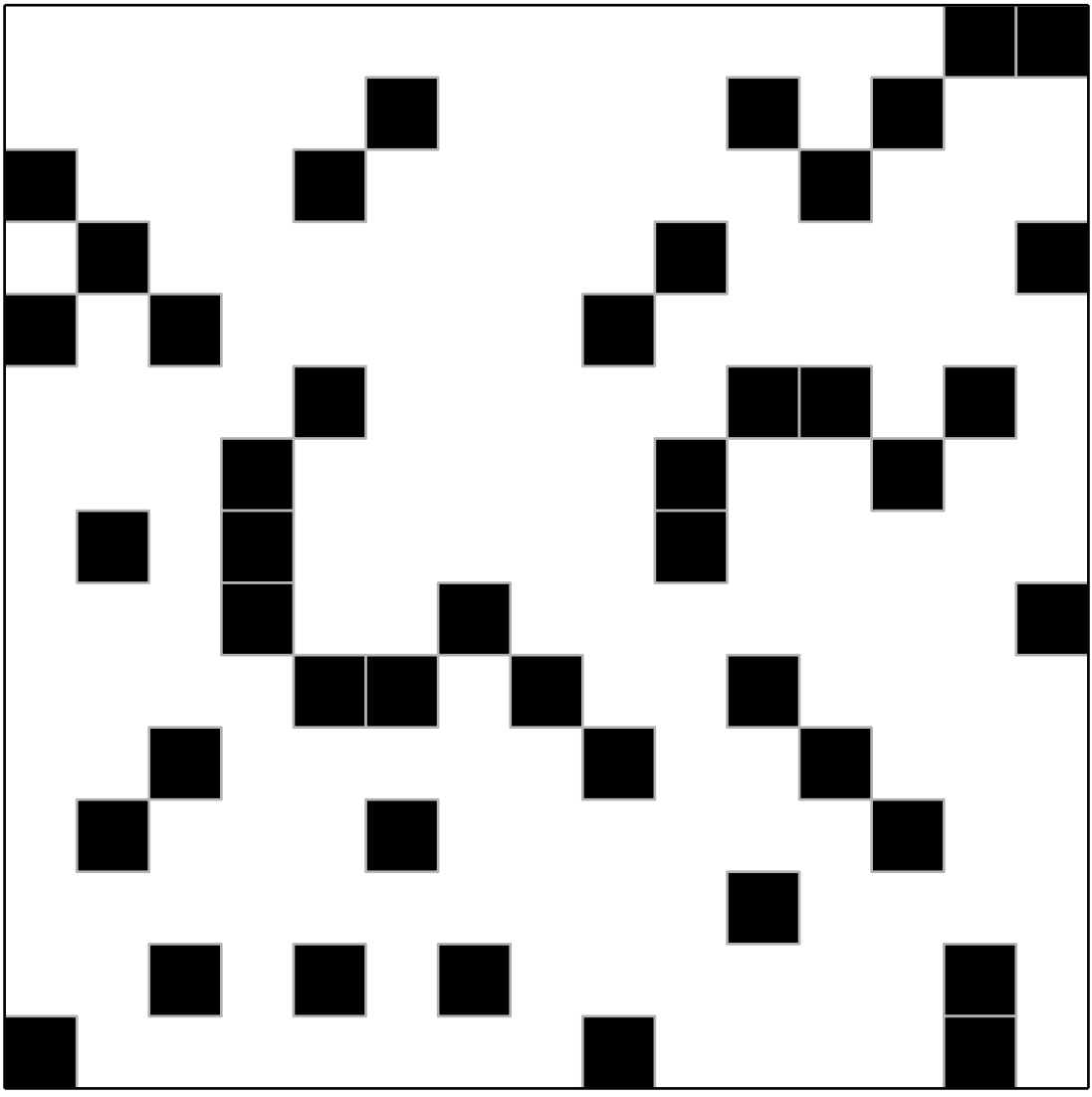
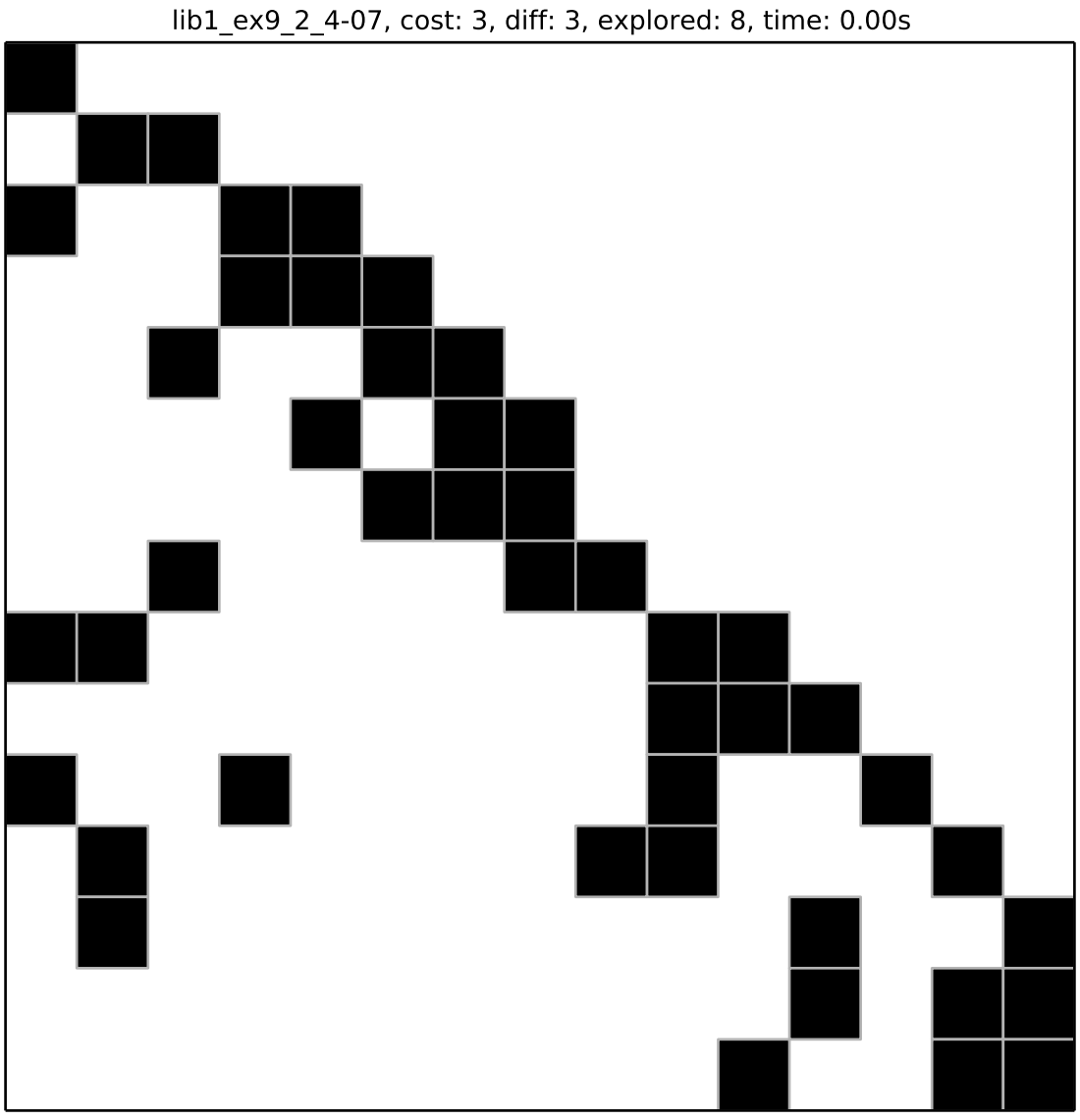
lib1_ex9_2_4-07 15x15 (45) con: 7, var: 8

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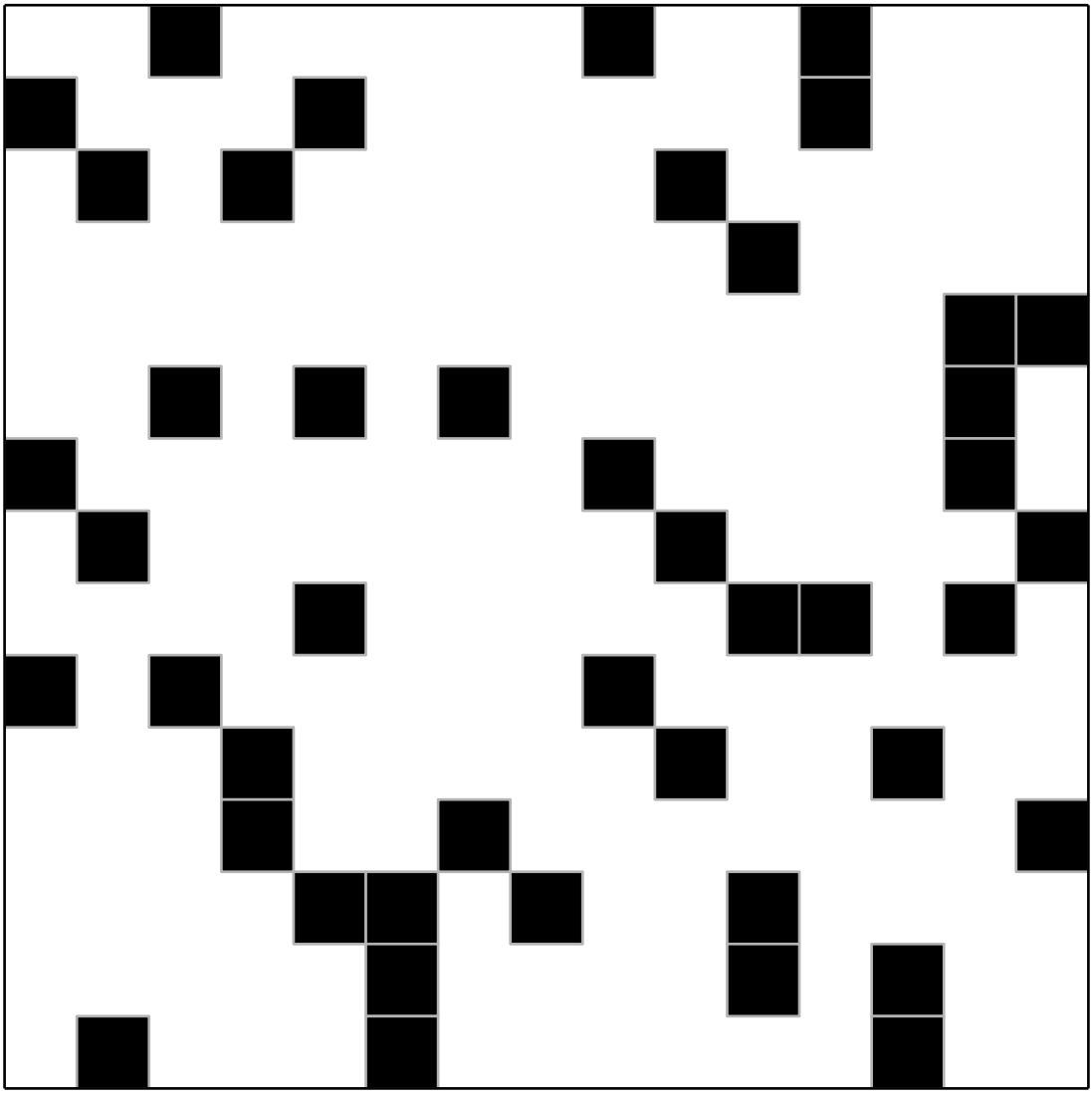
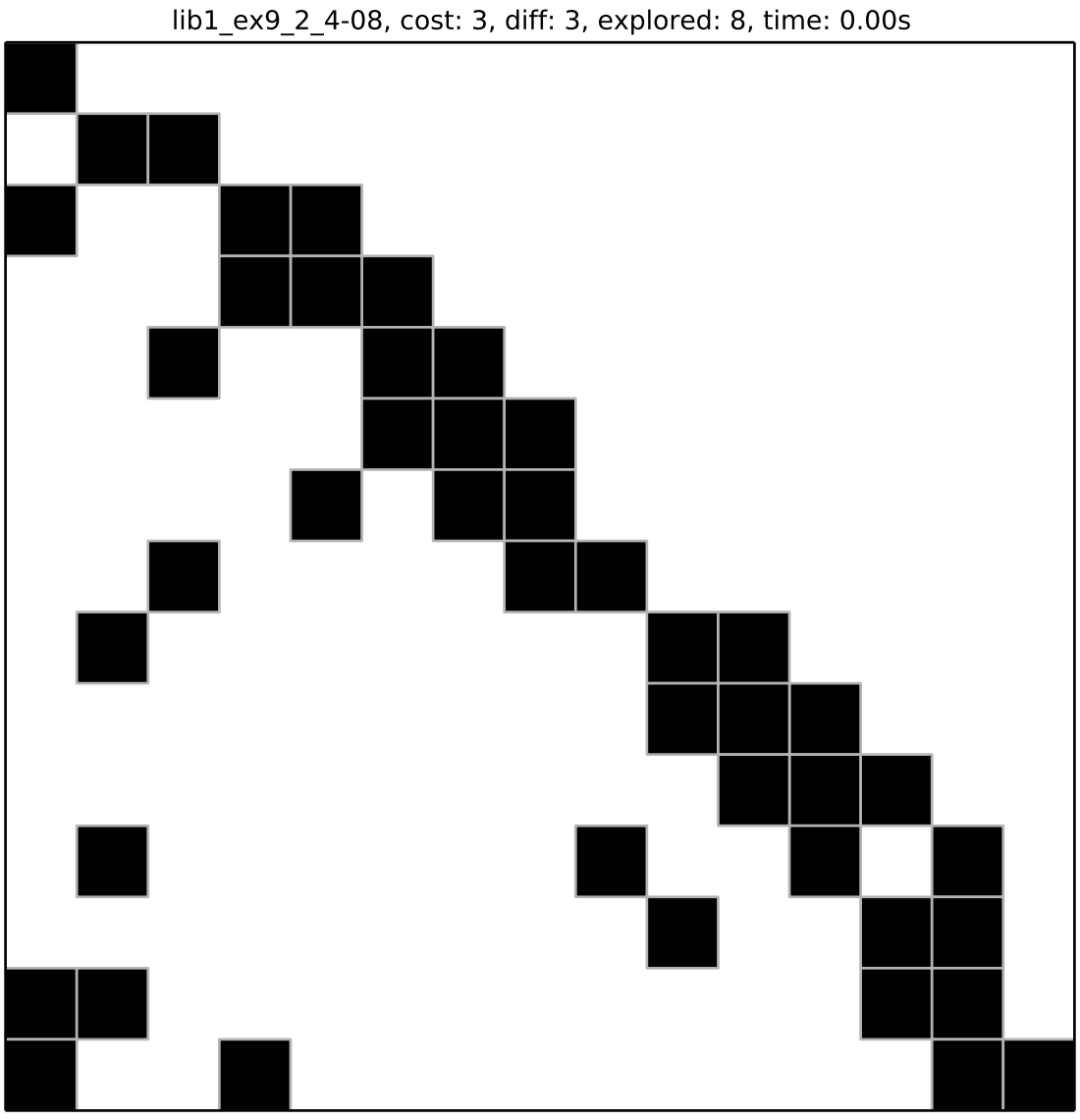
lib1_ex9_2_4-08 15x15 (45) con: 7, var: 8

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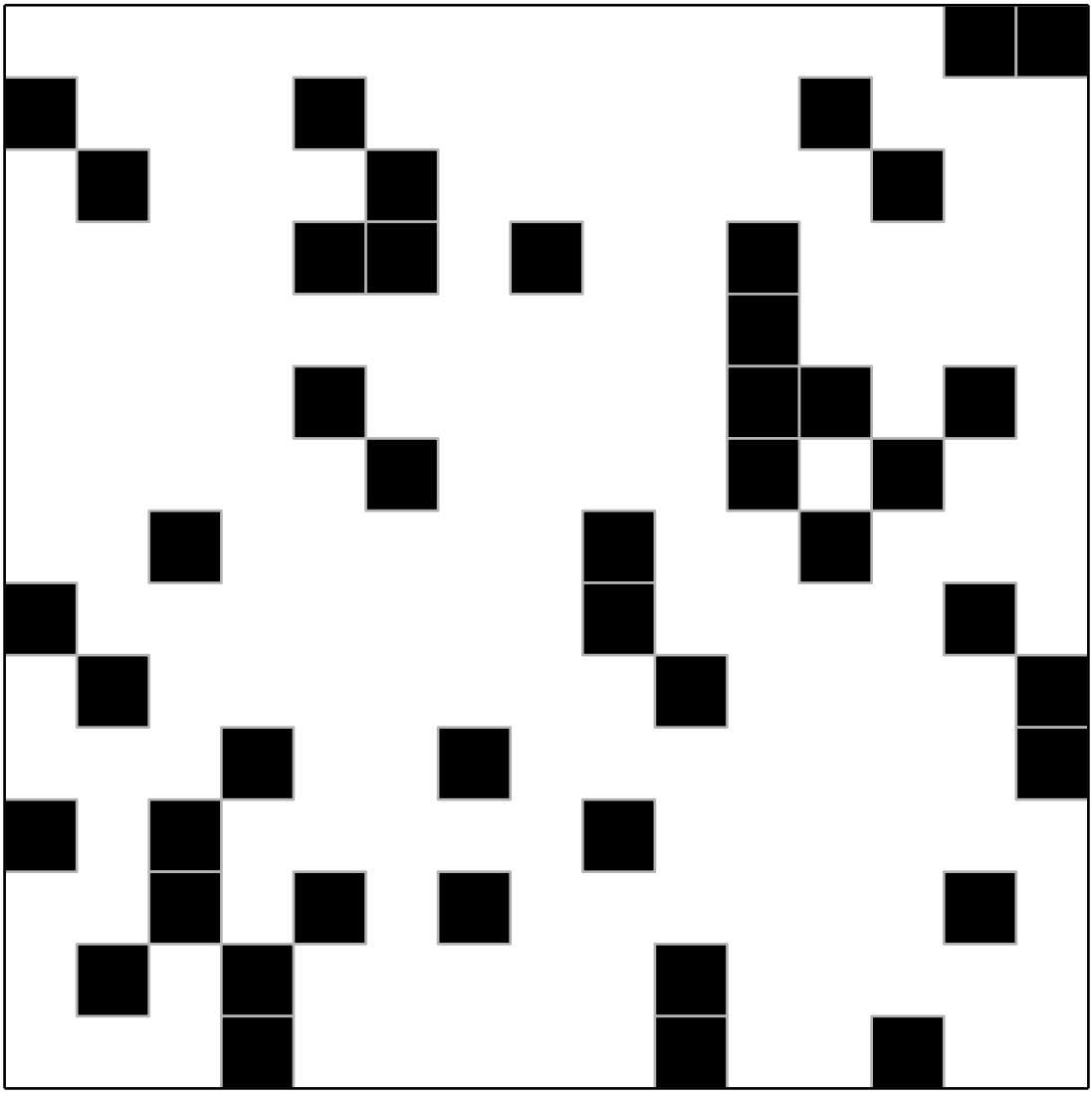
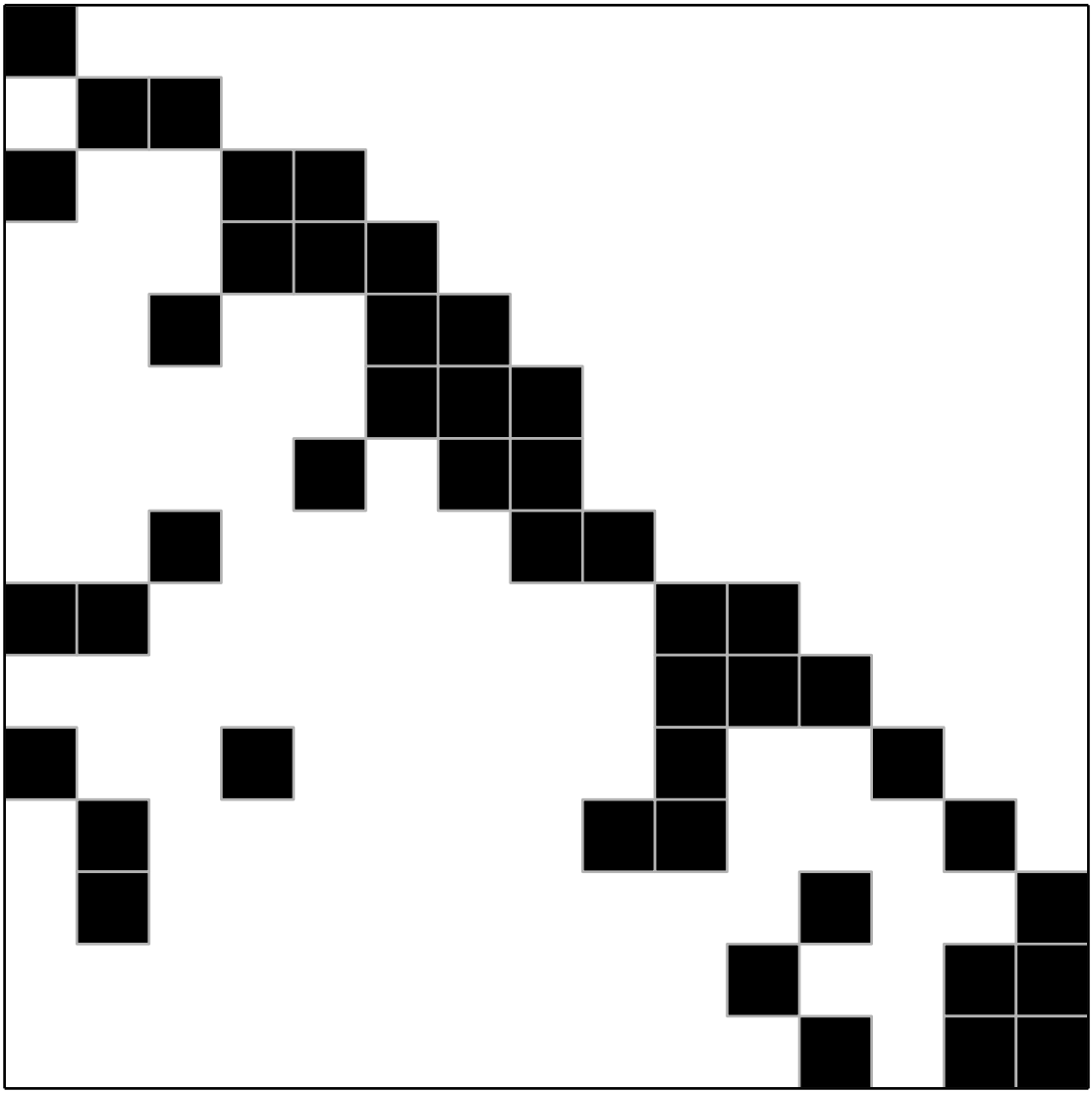
lib1_ex9_2_4-09 15x15 (45) con: 7, var: 8

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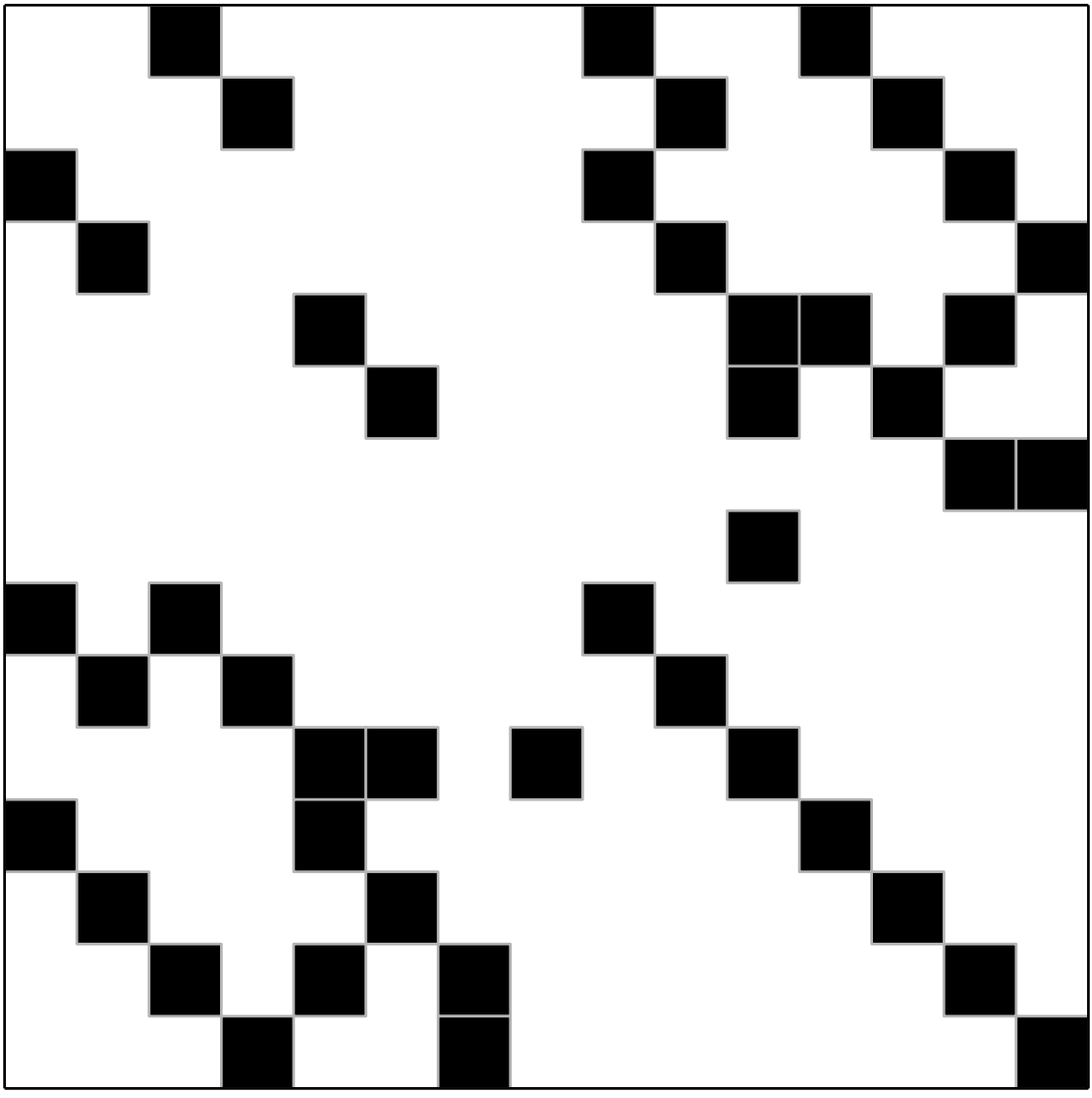
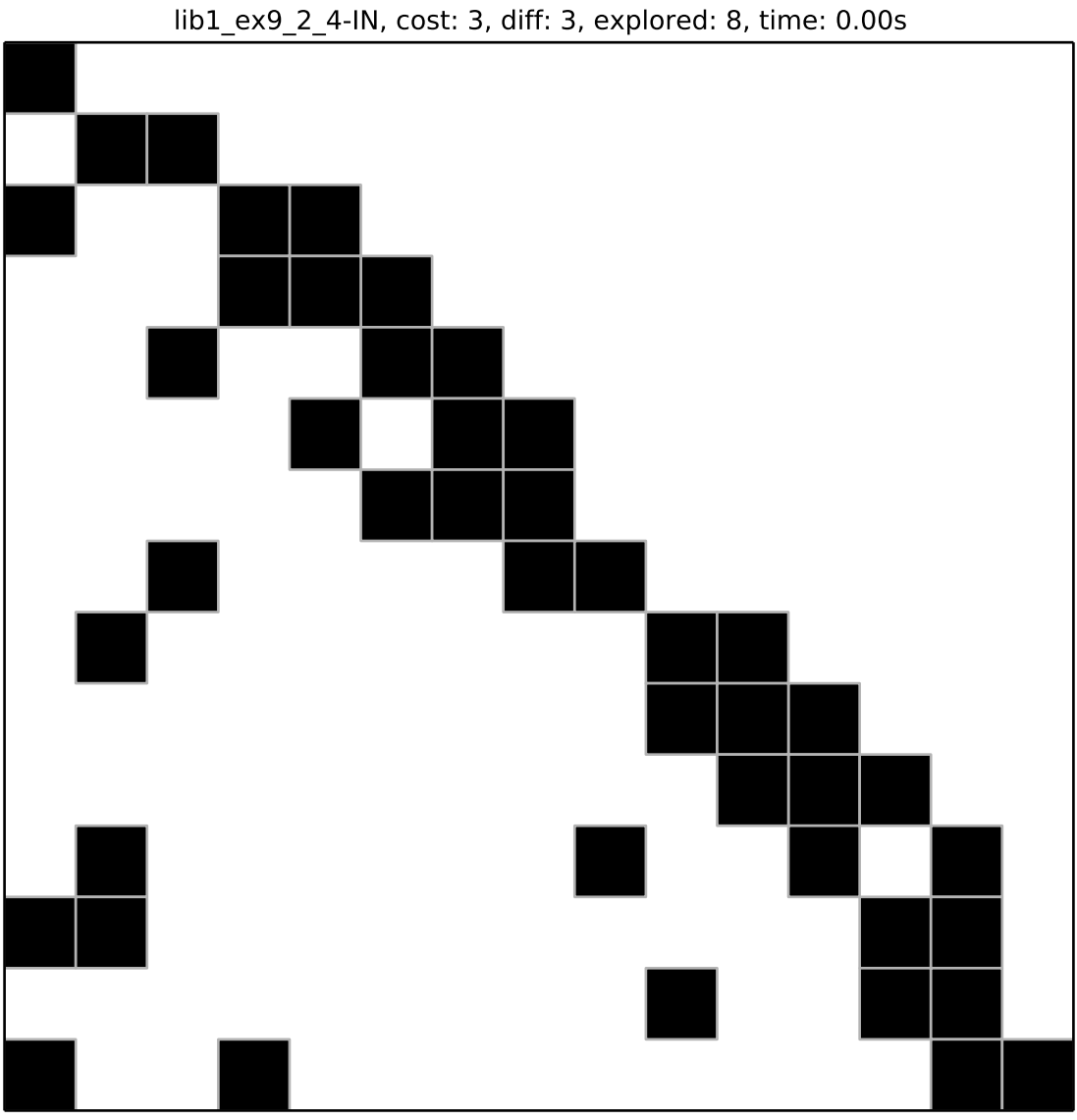
lib1_ex9_2_4-IN 15x15 (45) con: 7, var: 8

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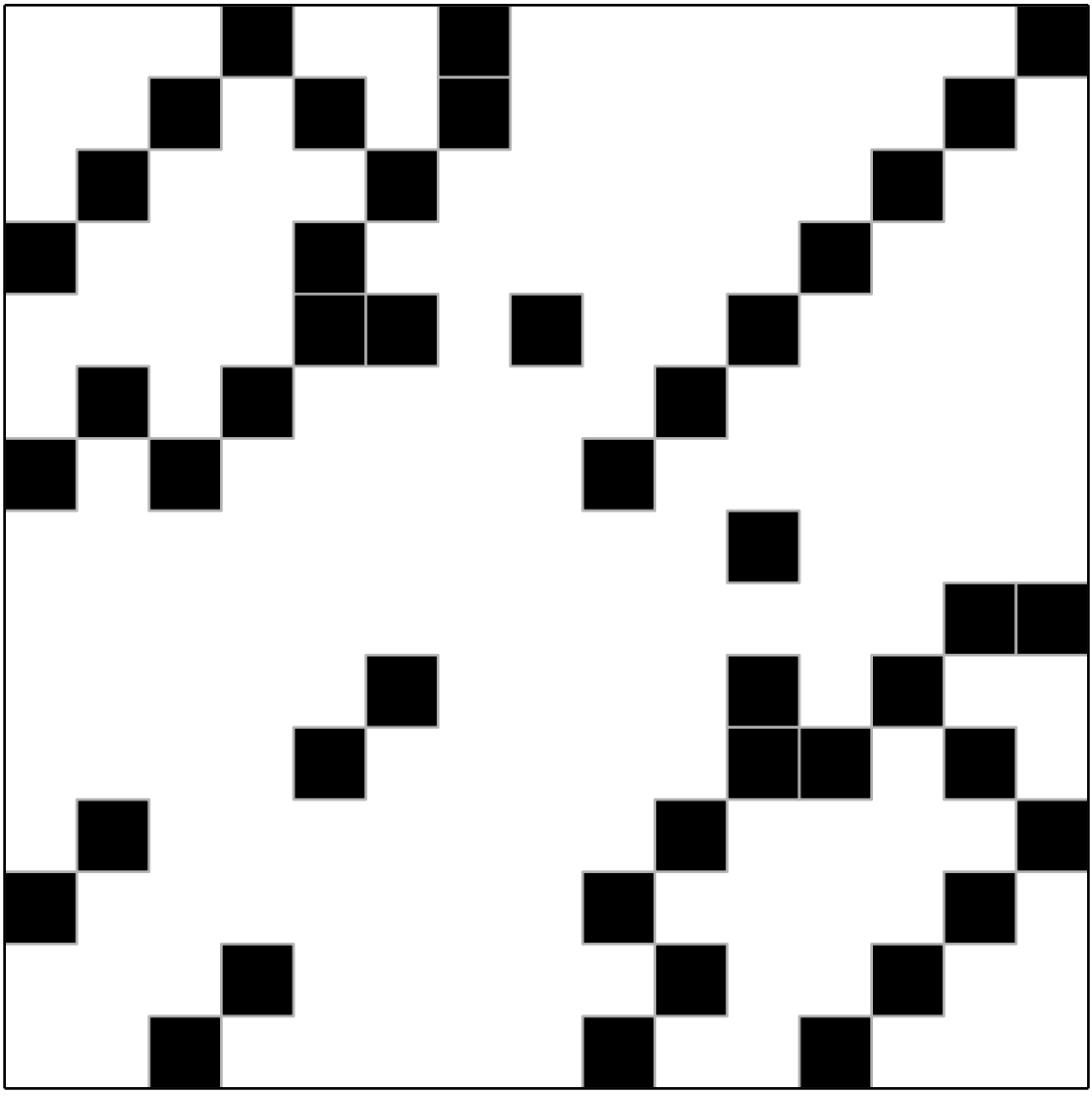
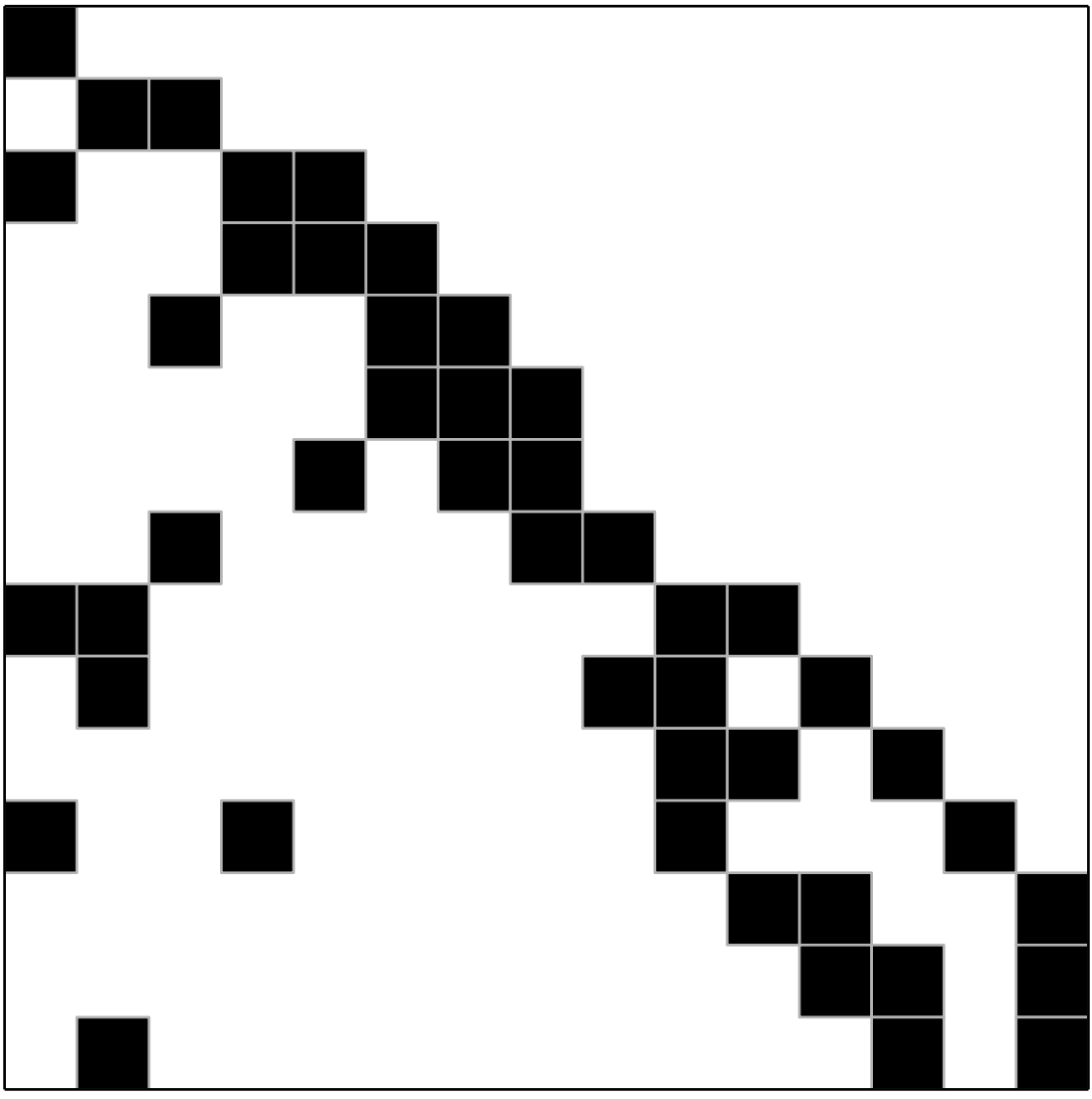
lib1_ex9_2_4-RE 15x15 (45) con: 7, var: 8

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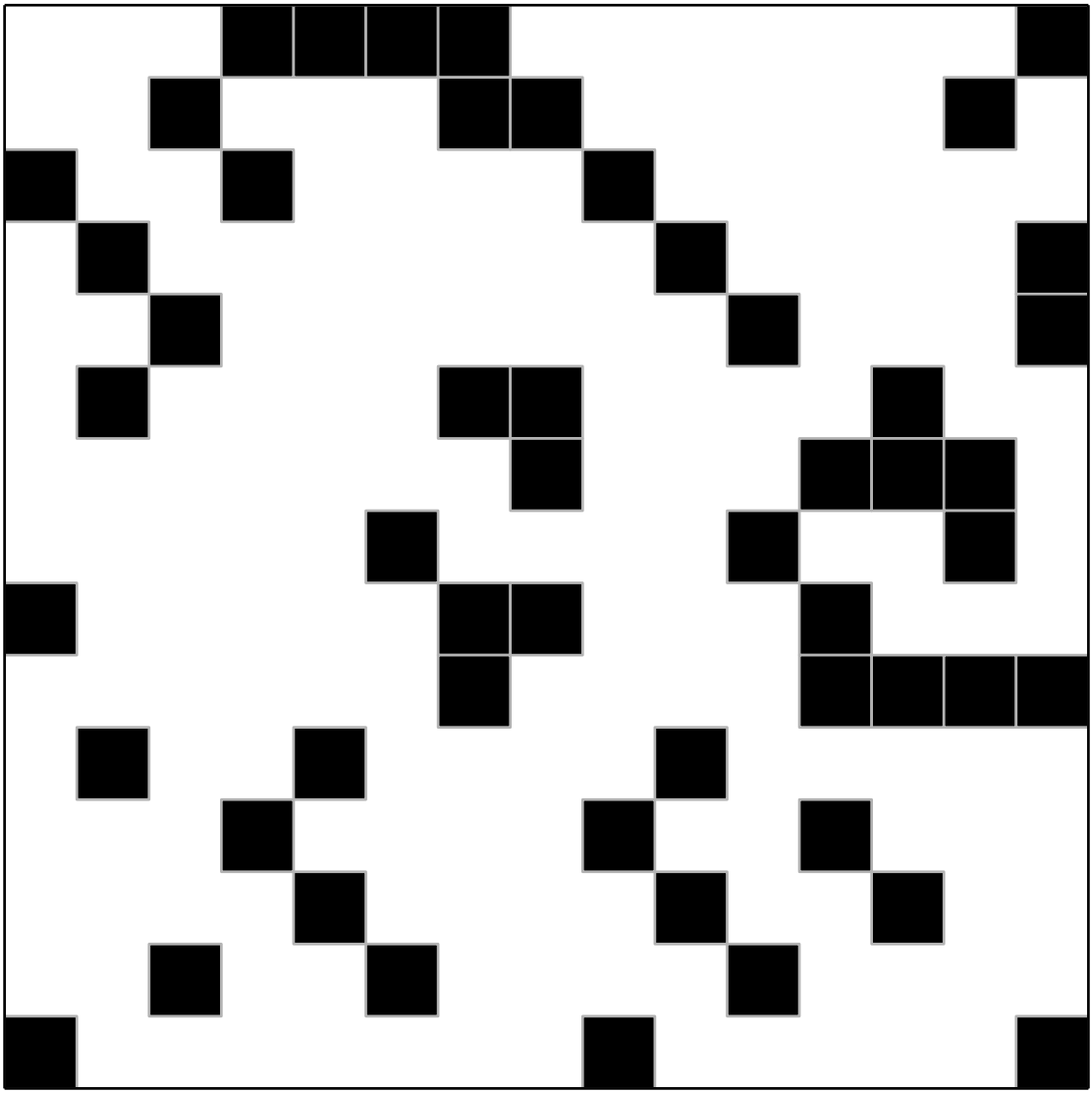
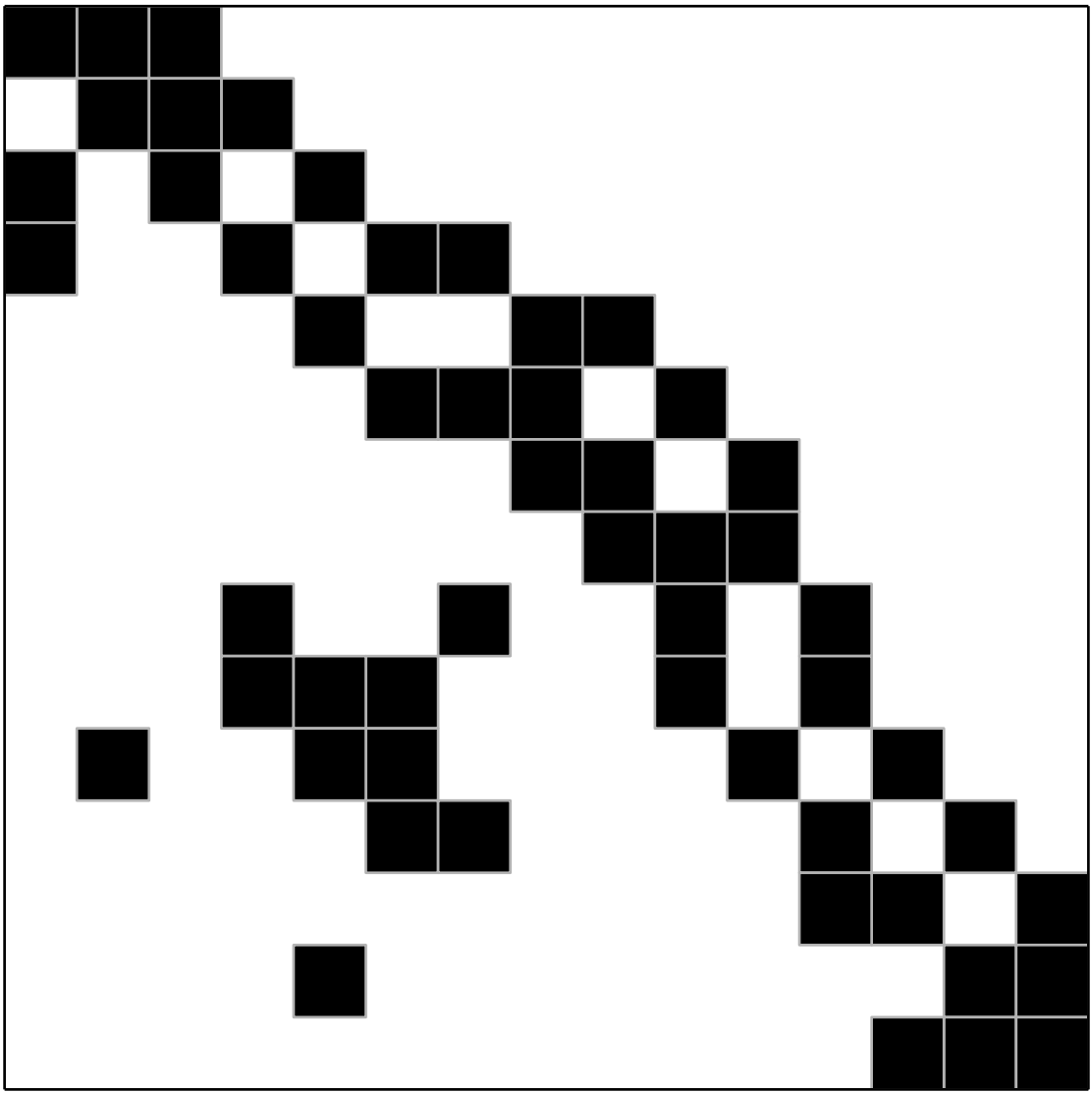
lib1_ex9_2_5-00 15x15 (53) con: 7, var: 8

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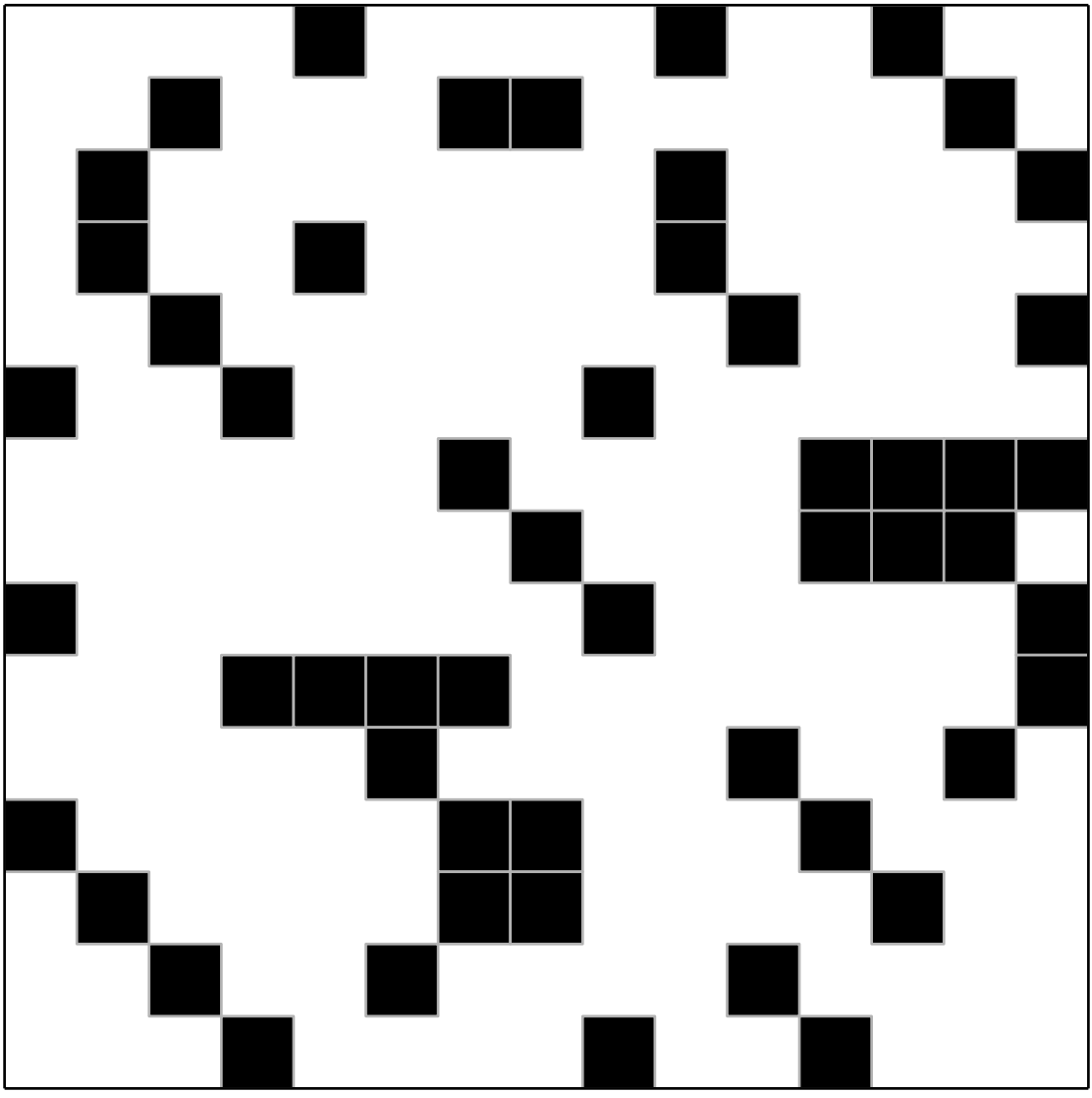
lib1_ex9_2_5-01 15x15 (53) con: 7, var: 8



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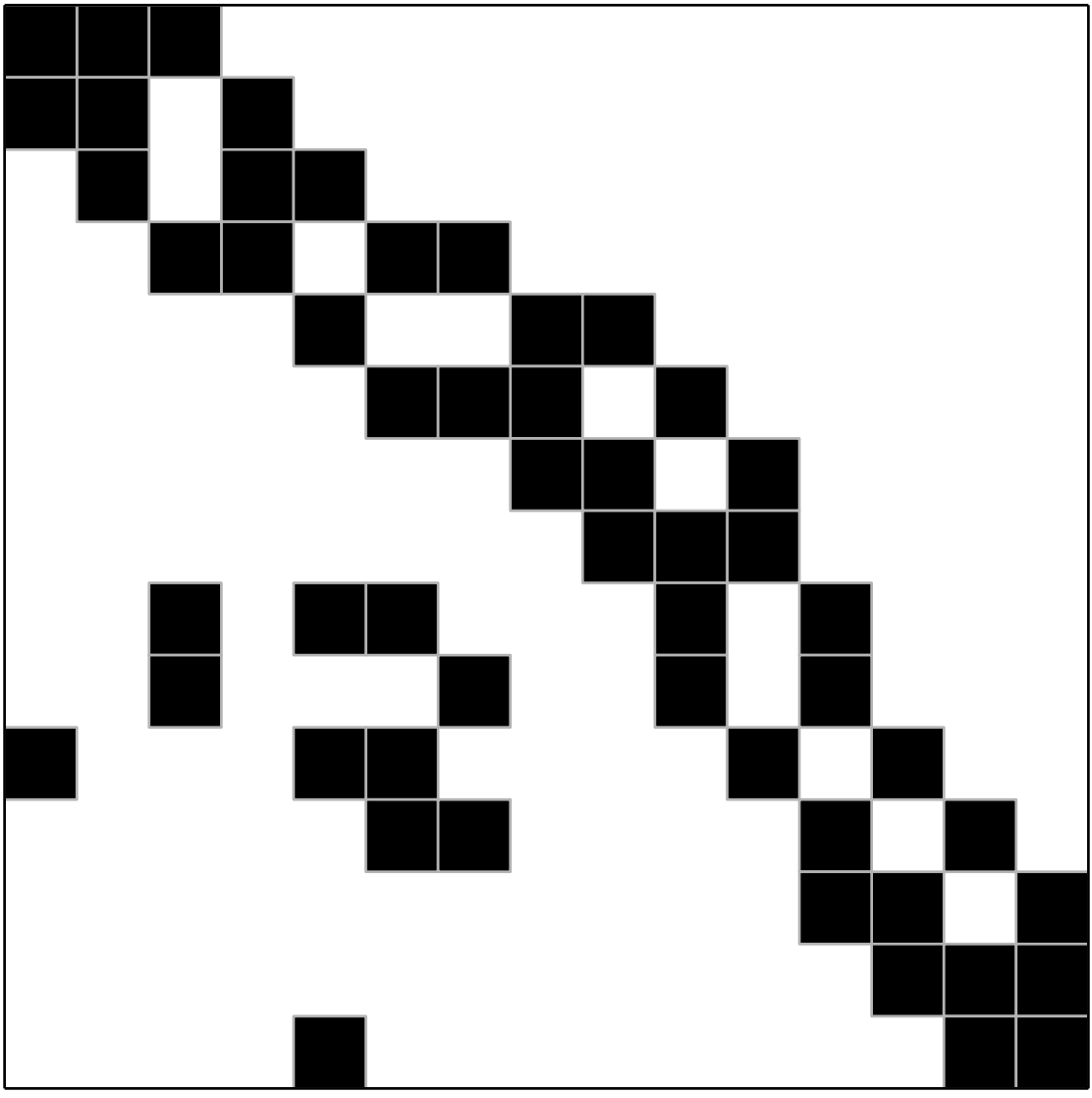
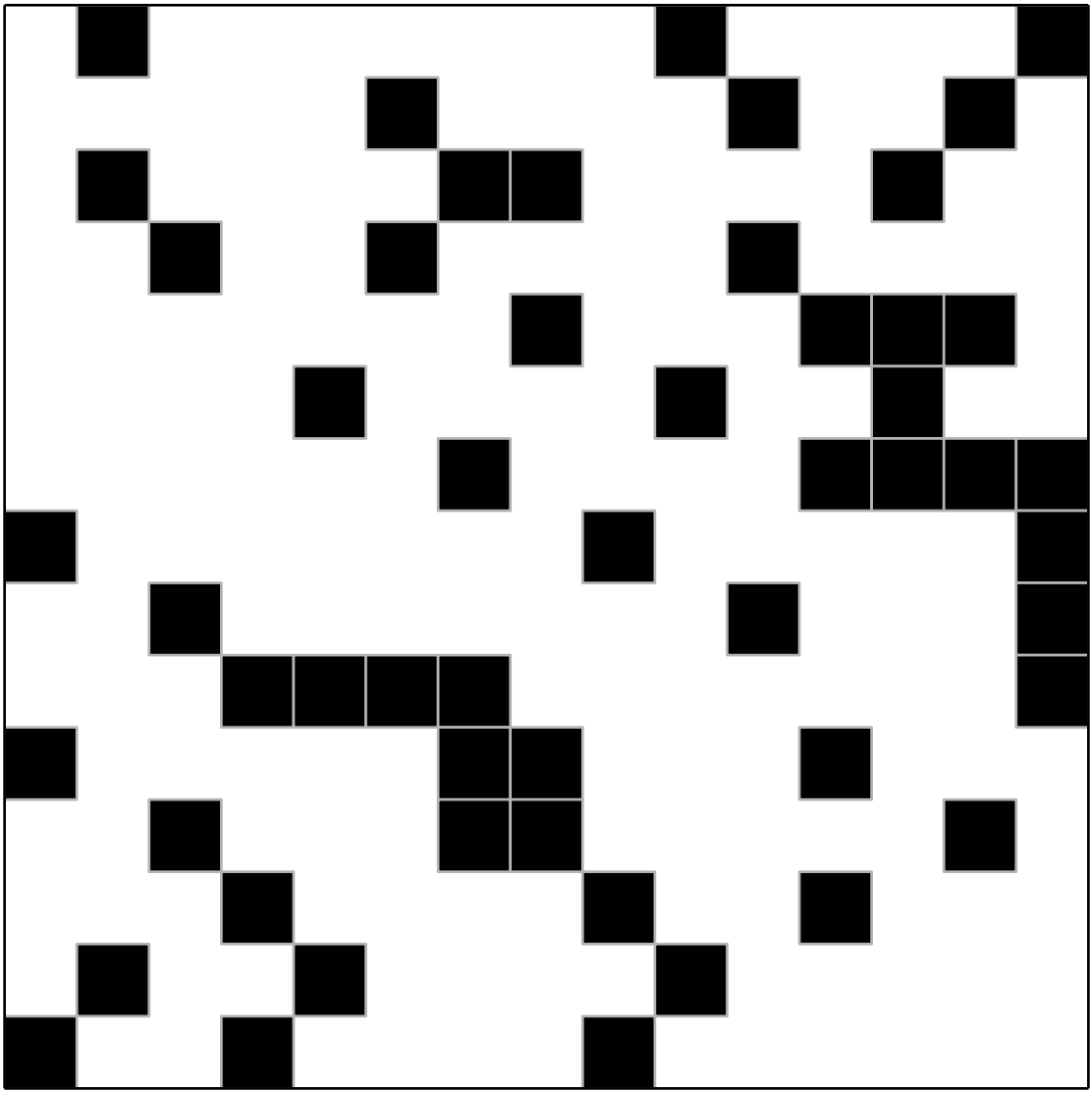
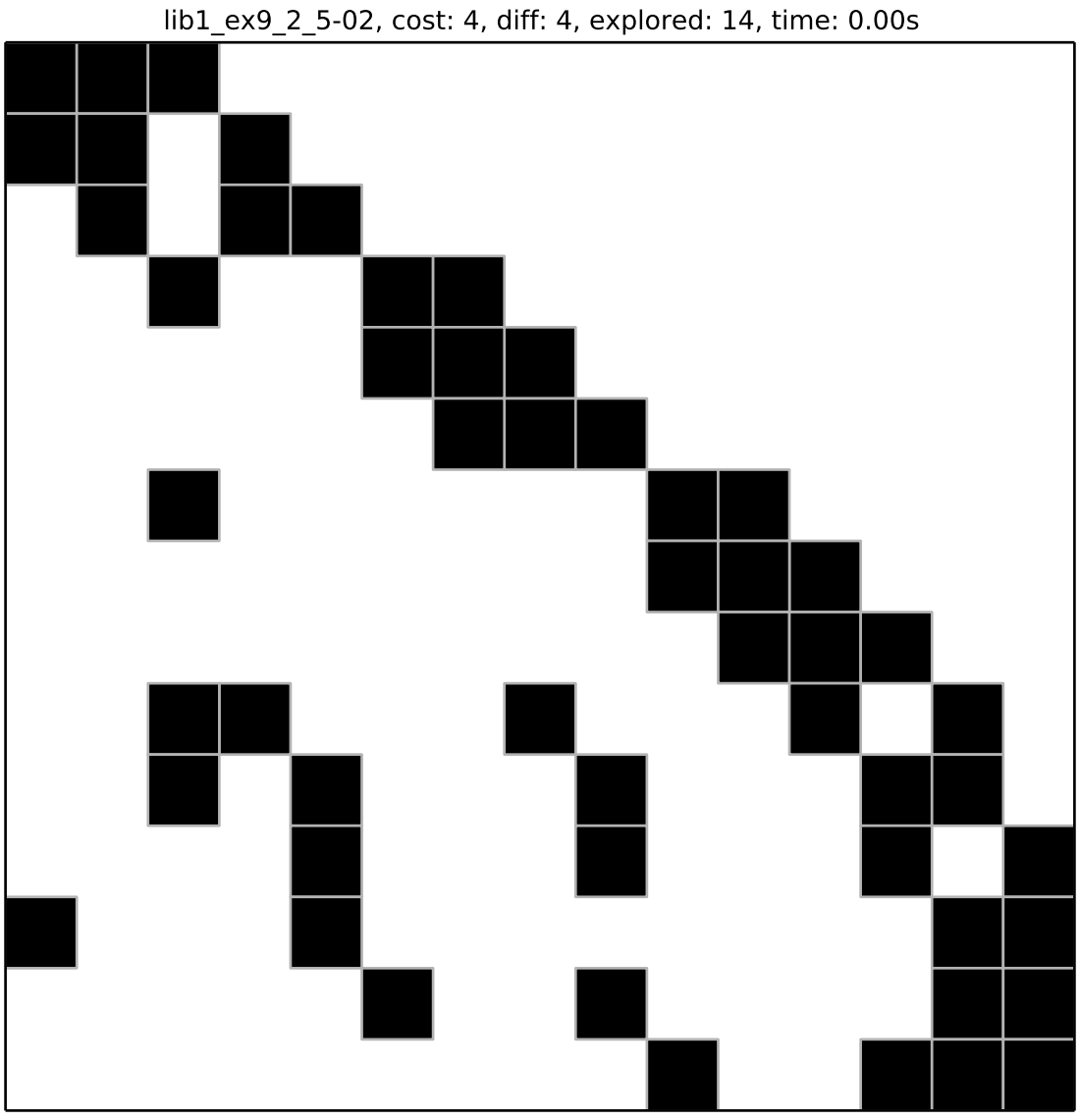


lib1_ex9_2_5-02 15x15 (53) con: 7, var: 8

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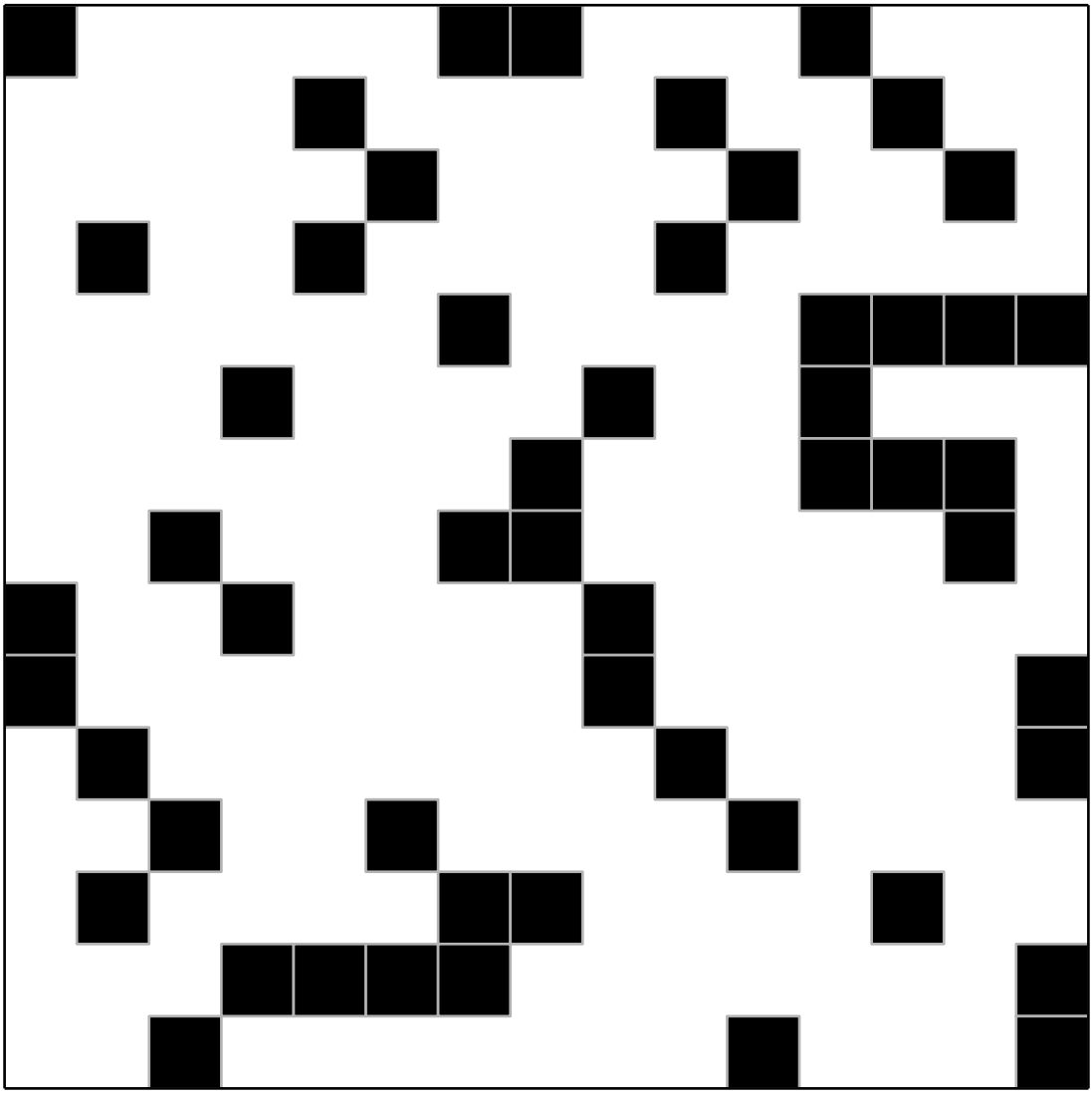
lib1_ex9_2_5-03 15x15 (53) con: 7, var: 8



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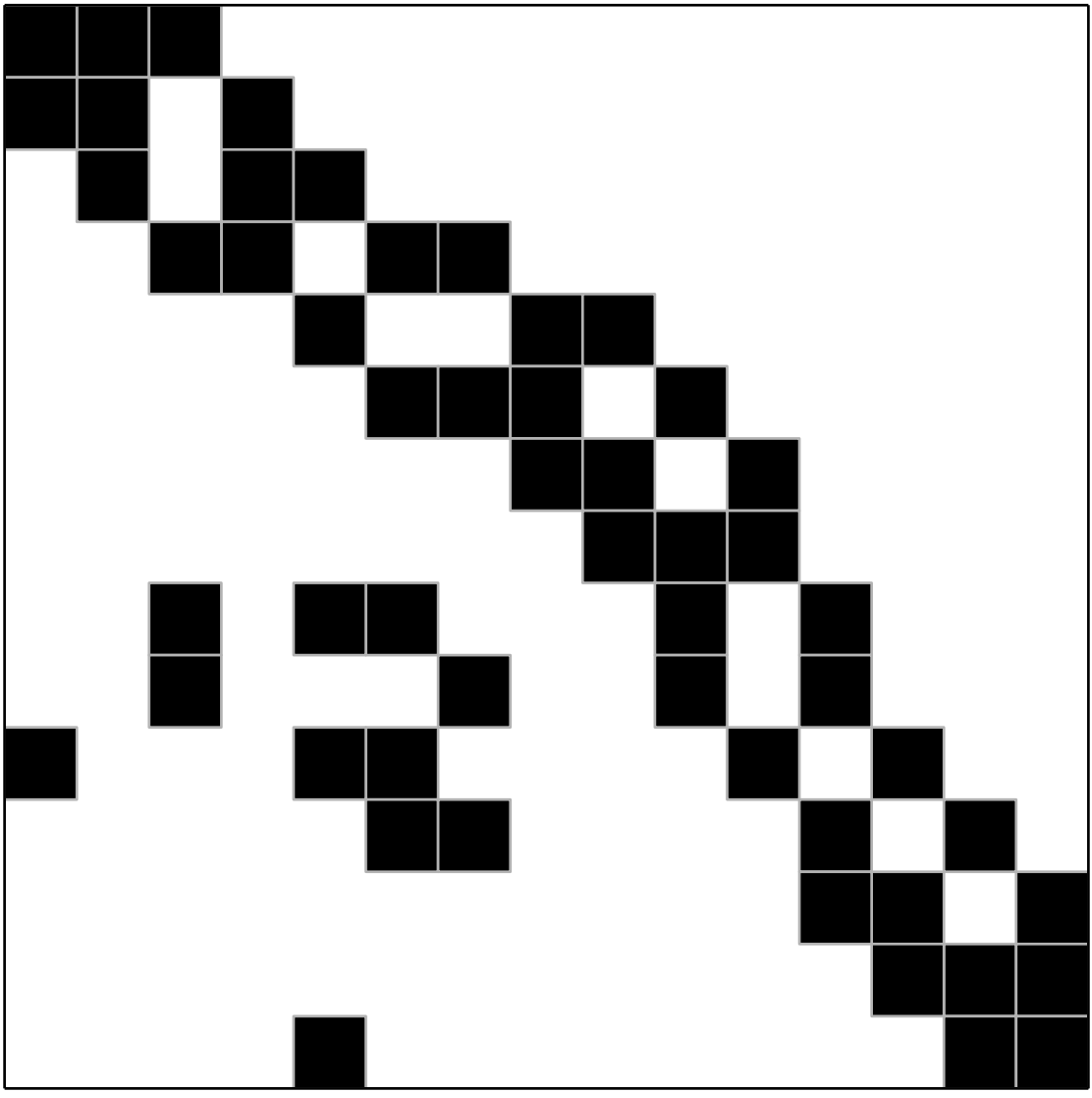

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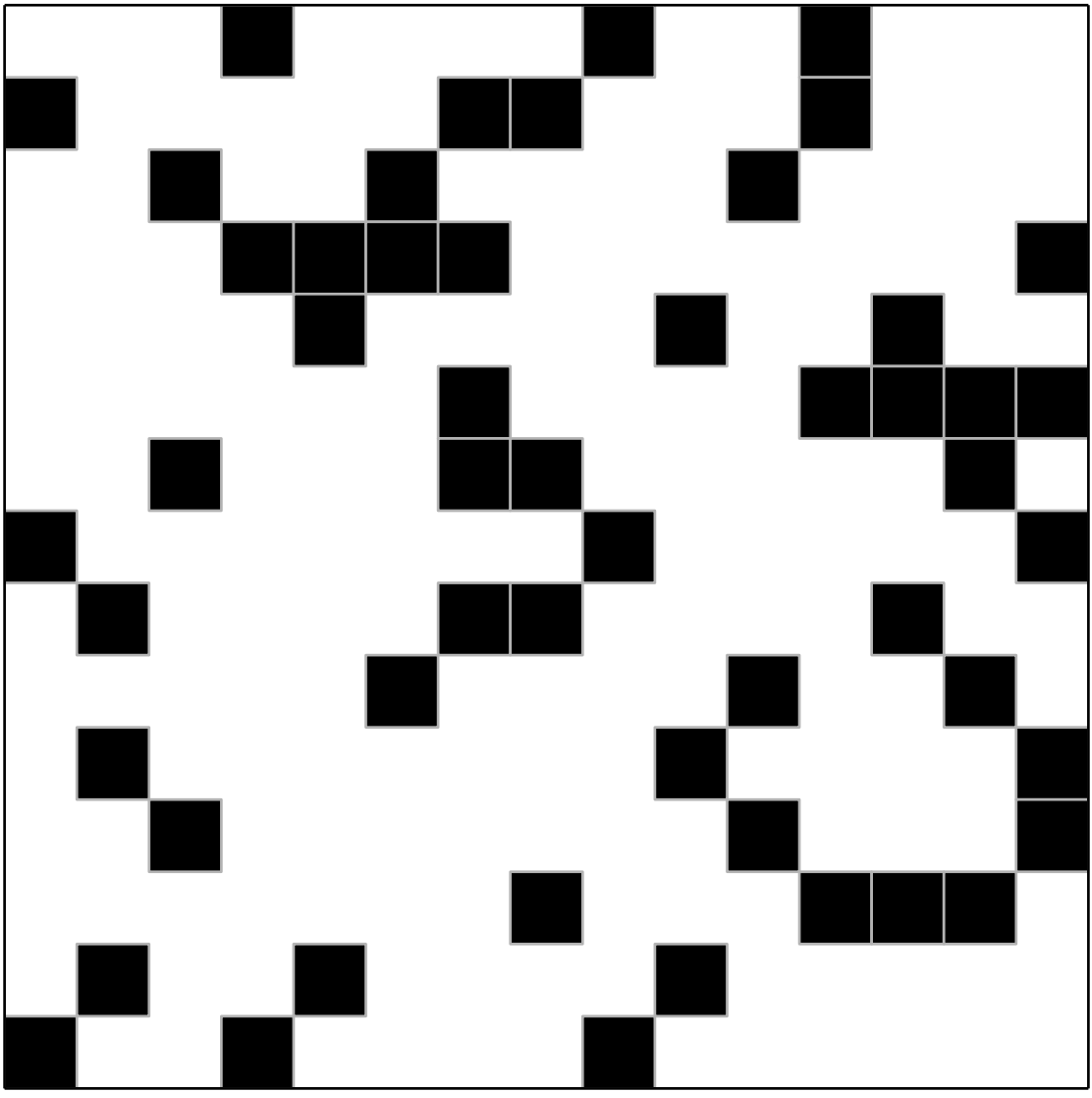

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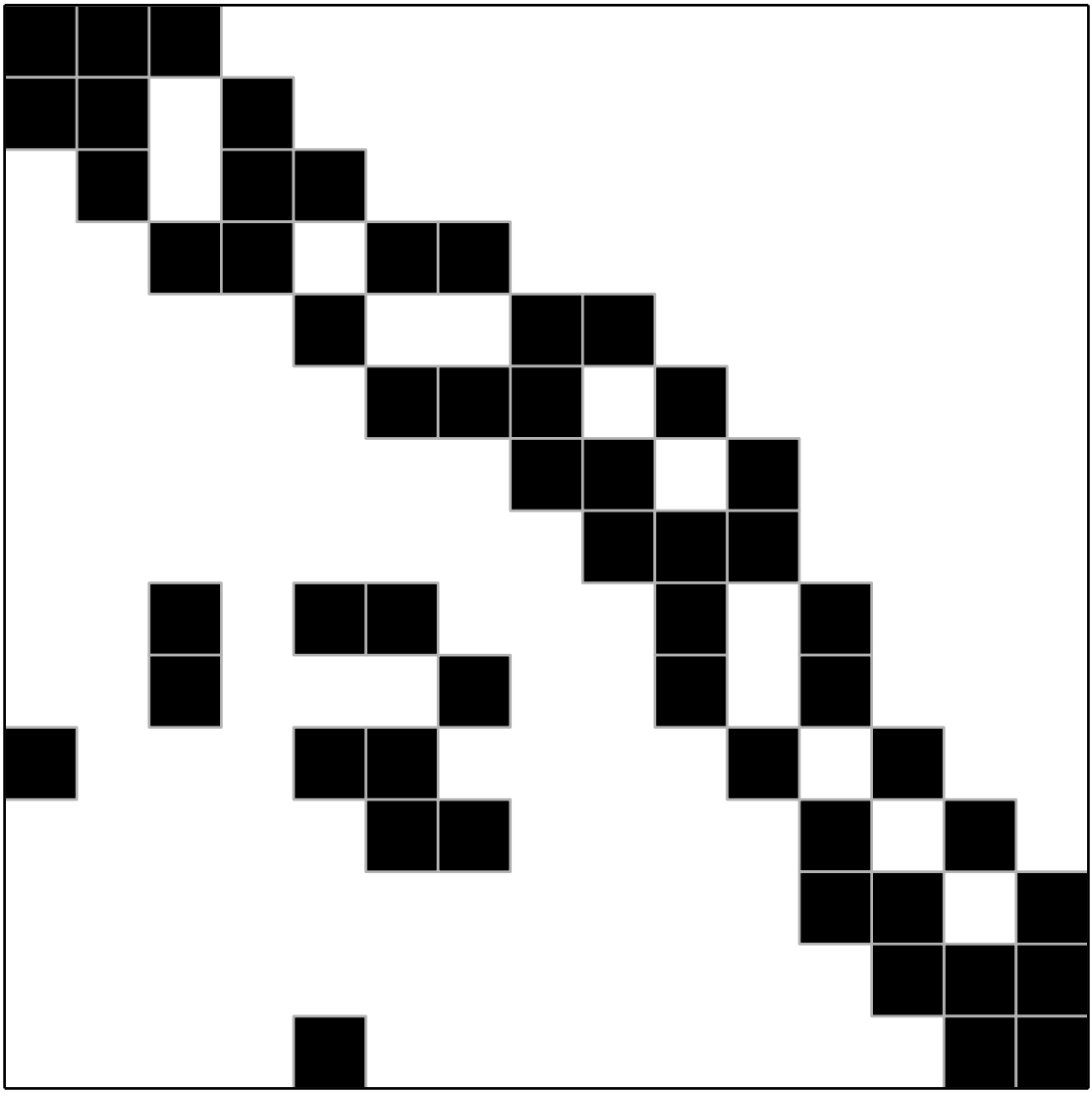
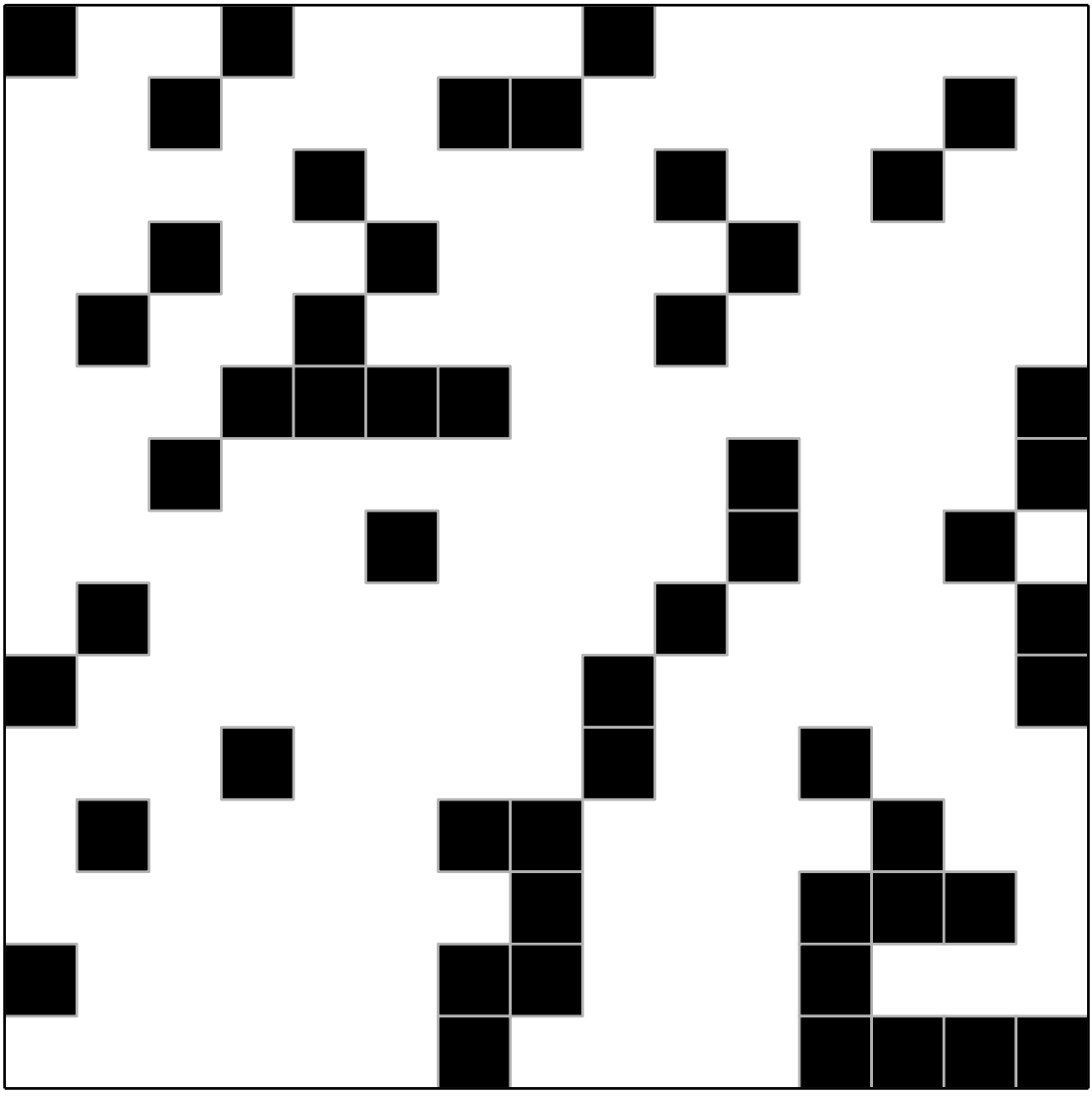
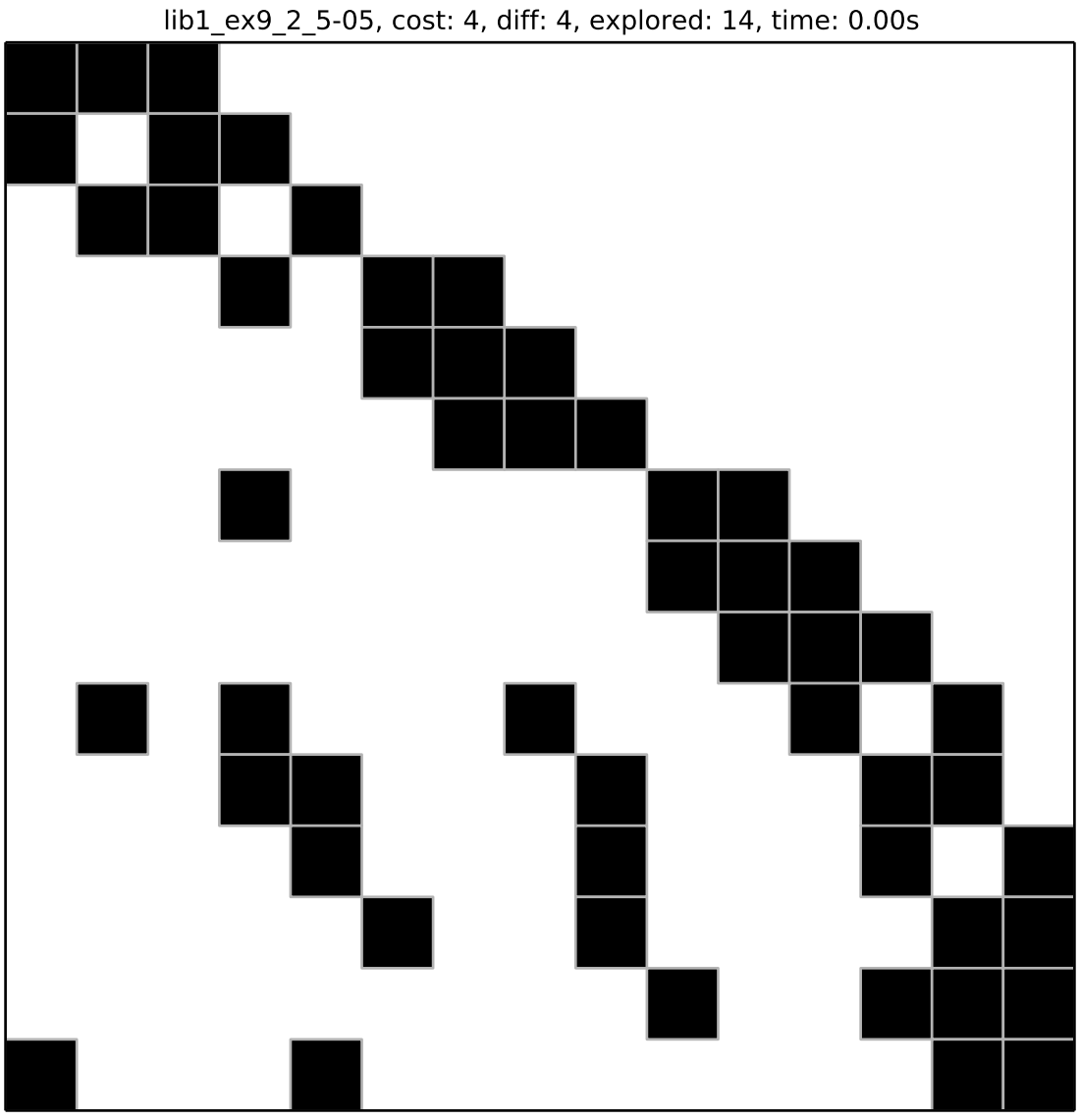


lib1_ex9_2_5-05 15x15 (53) con: 7, var: 8

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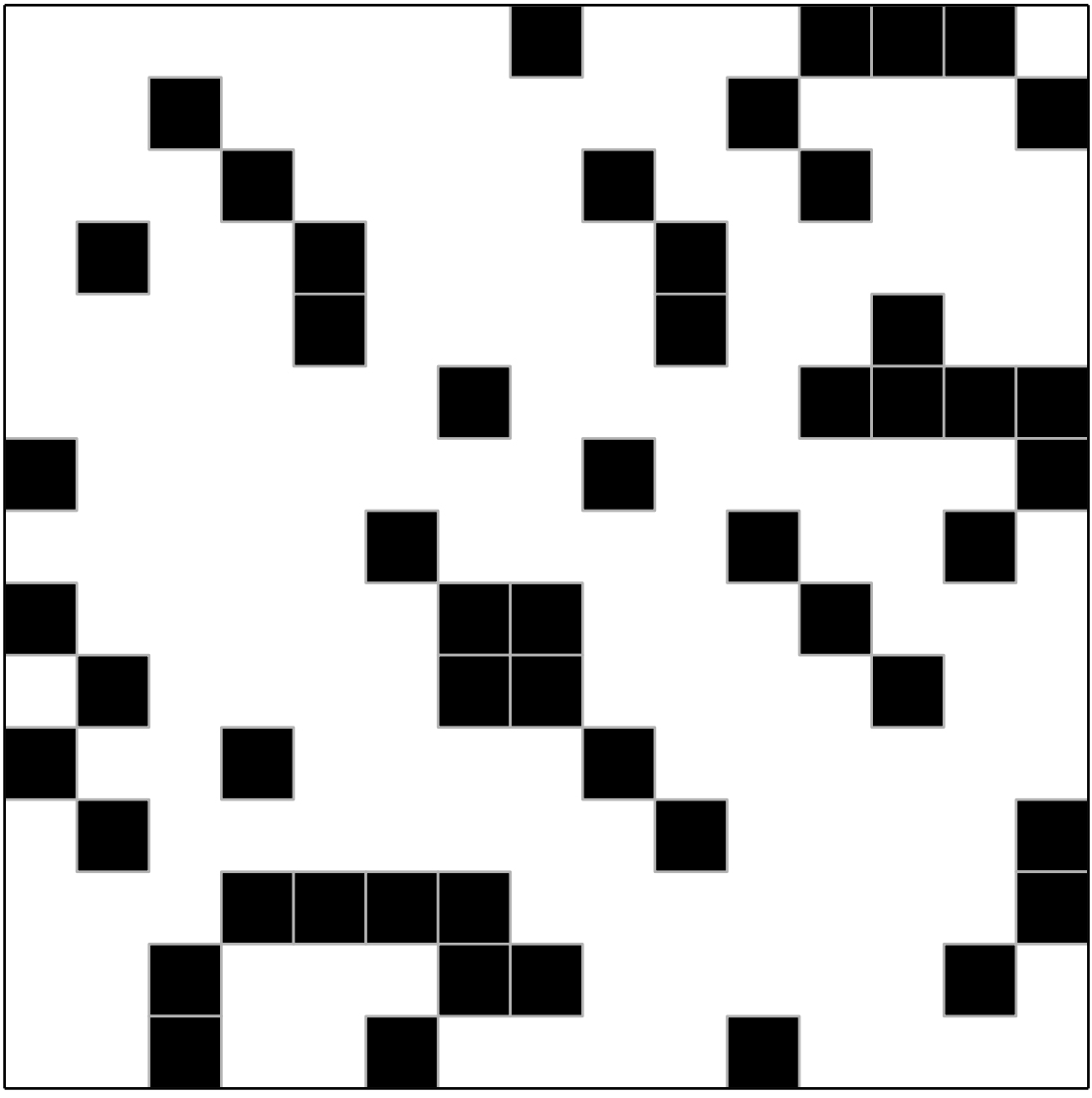

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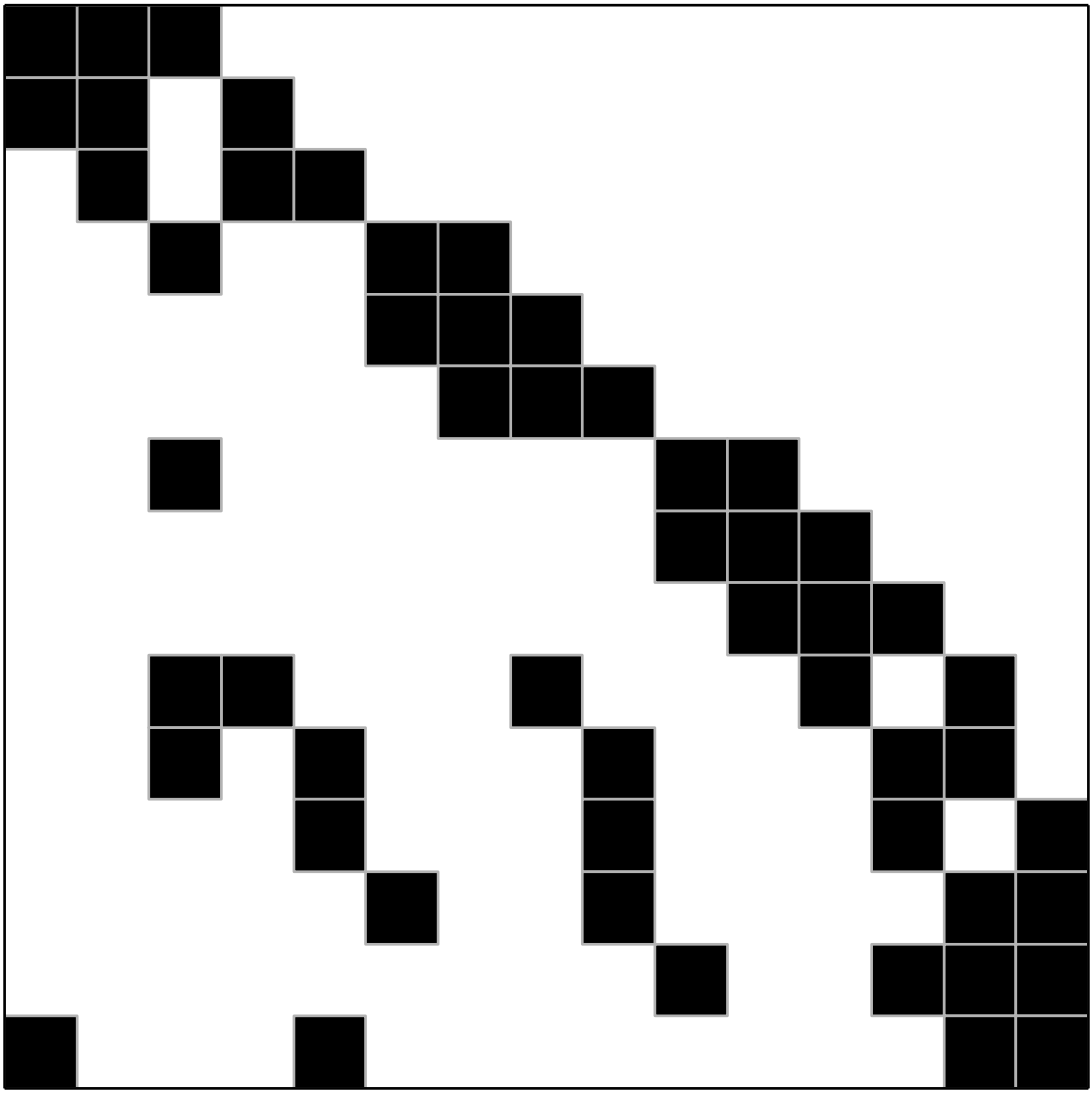

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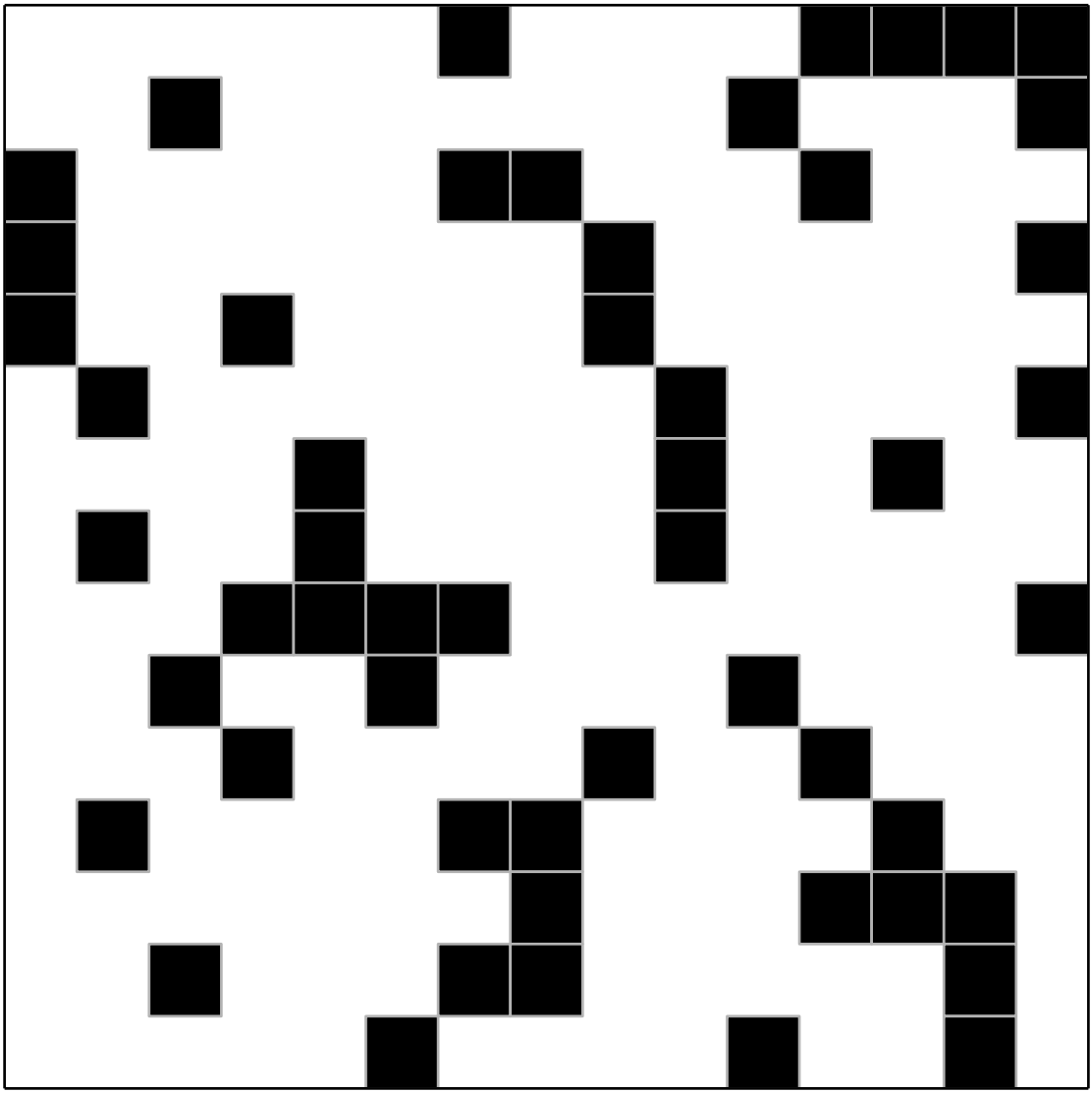

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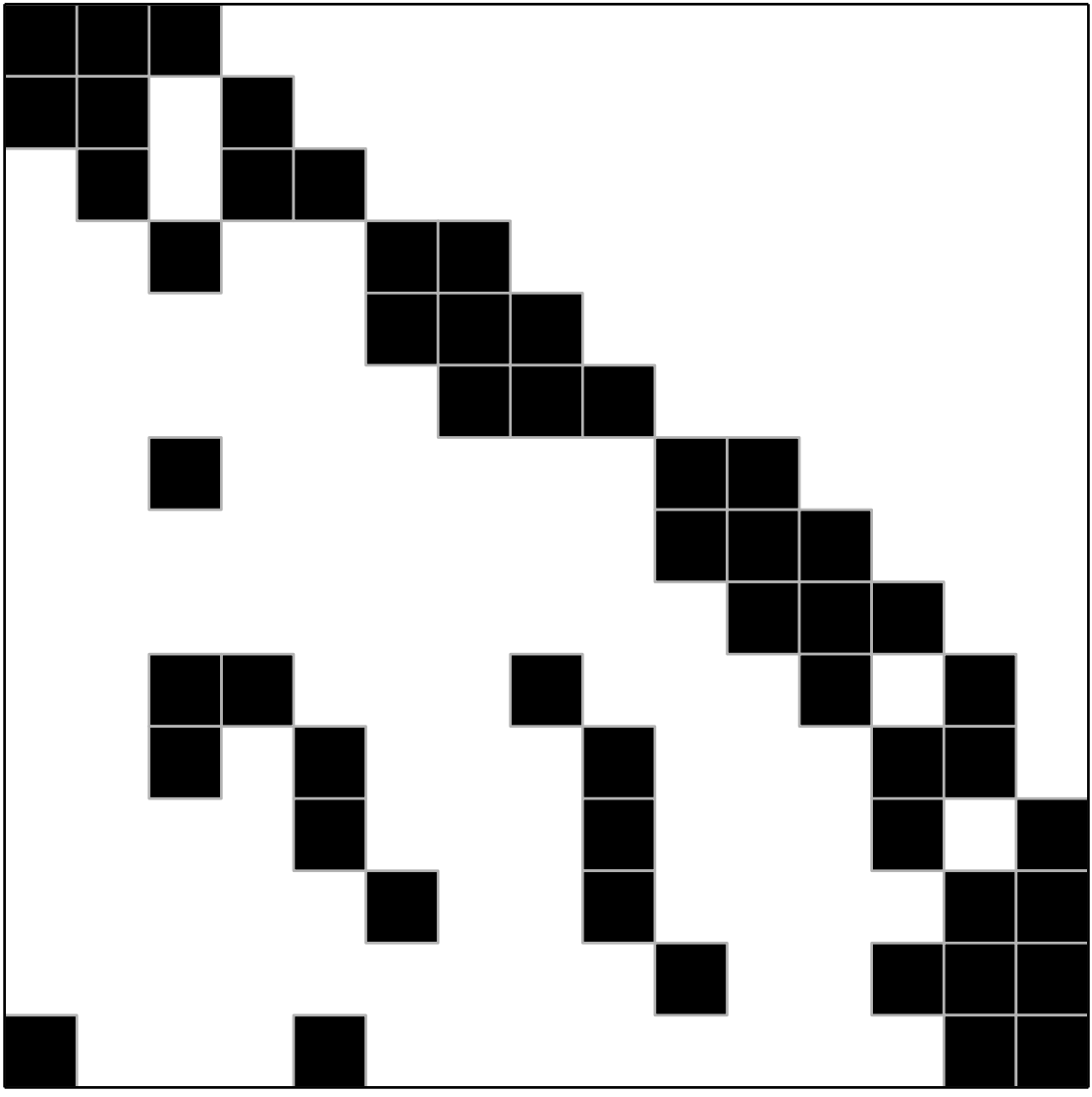
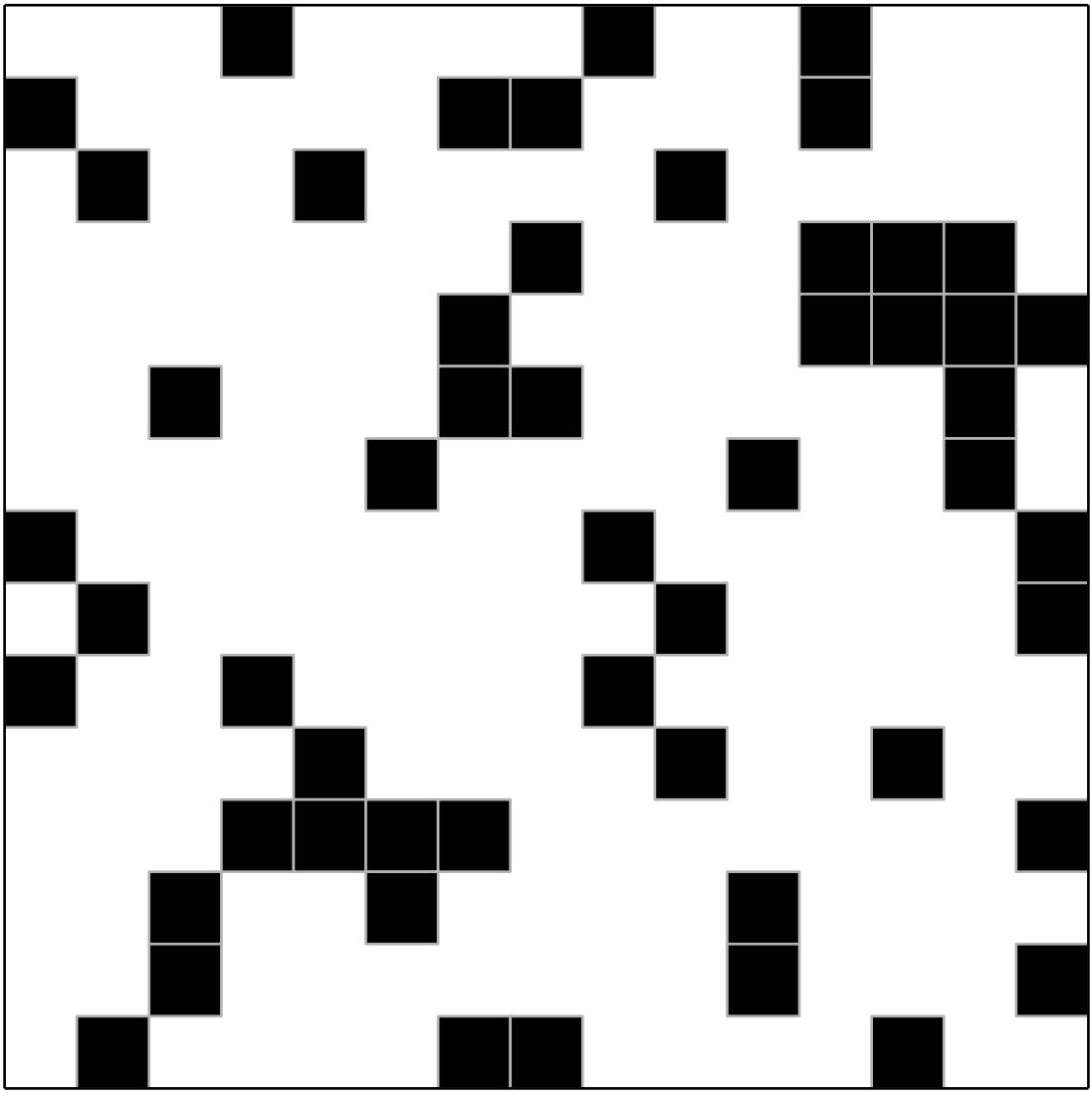
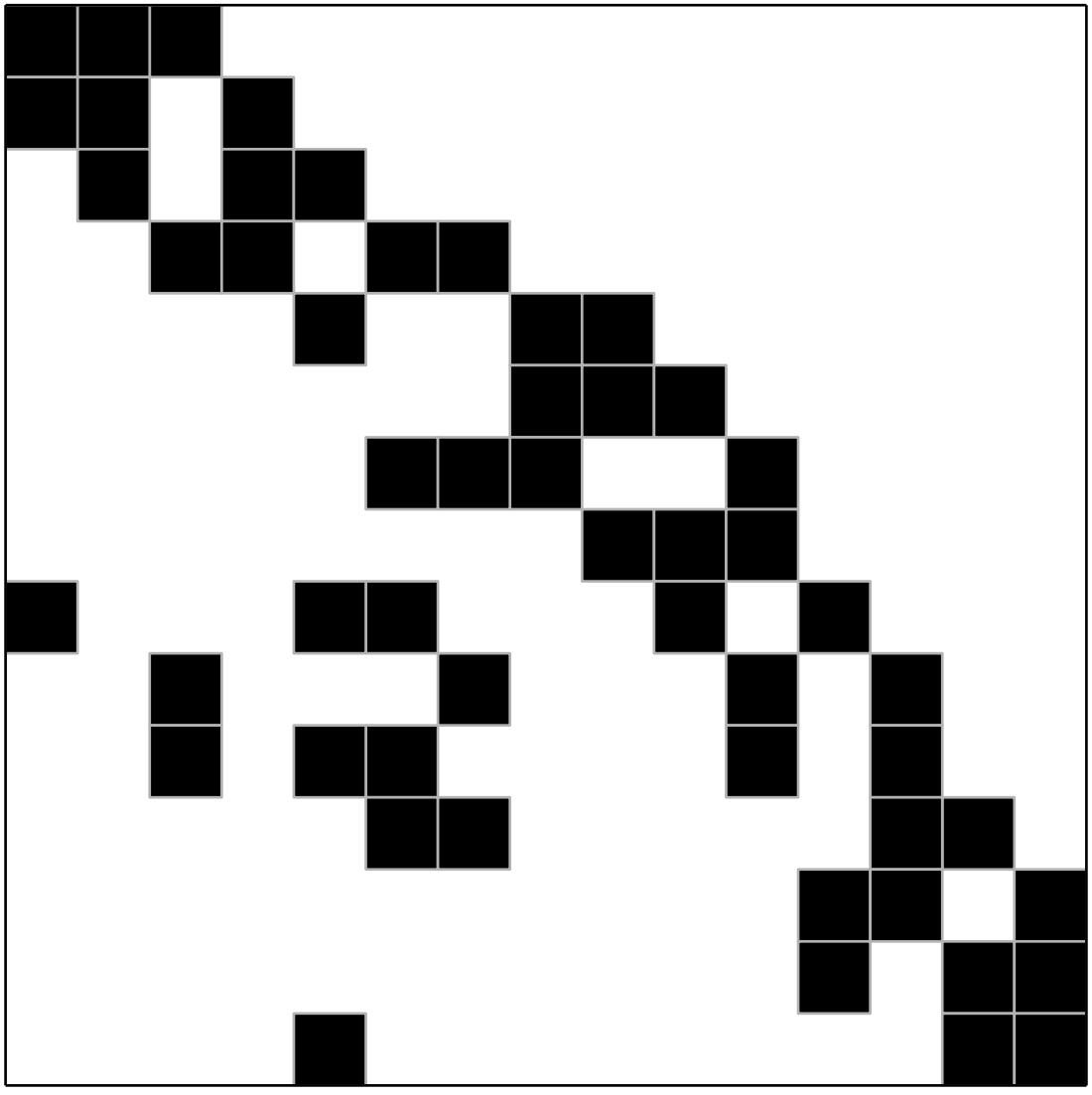


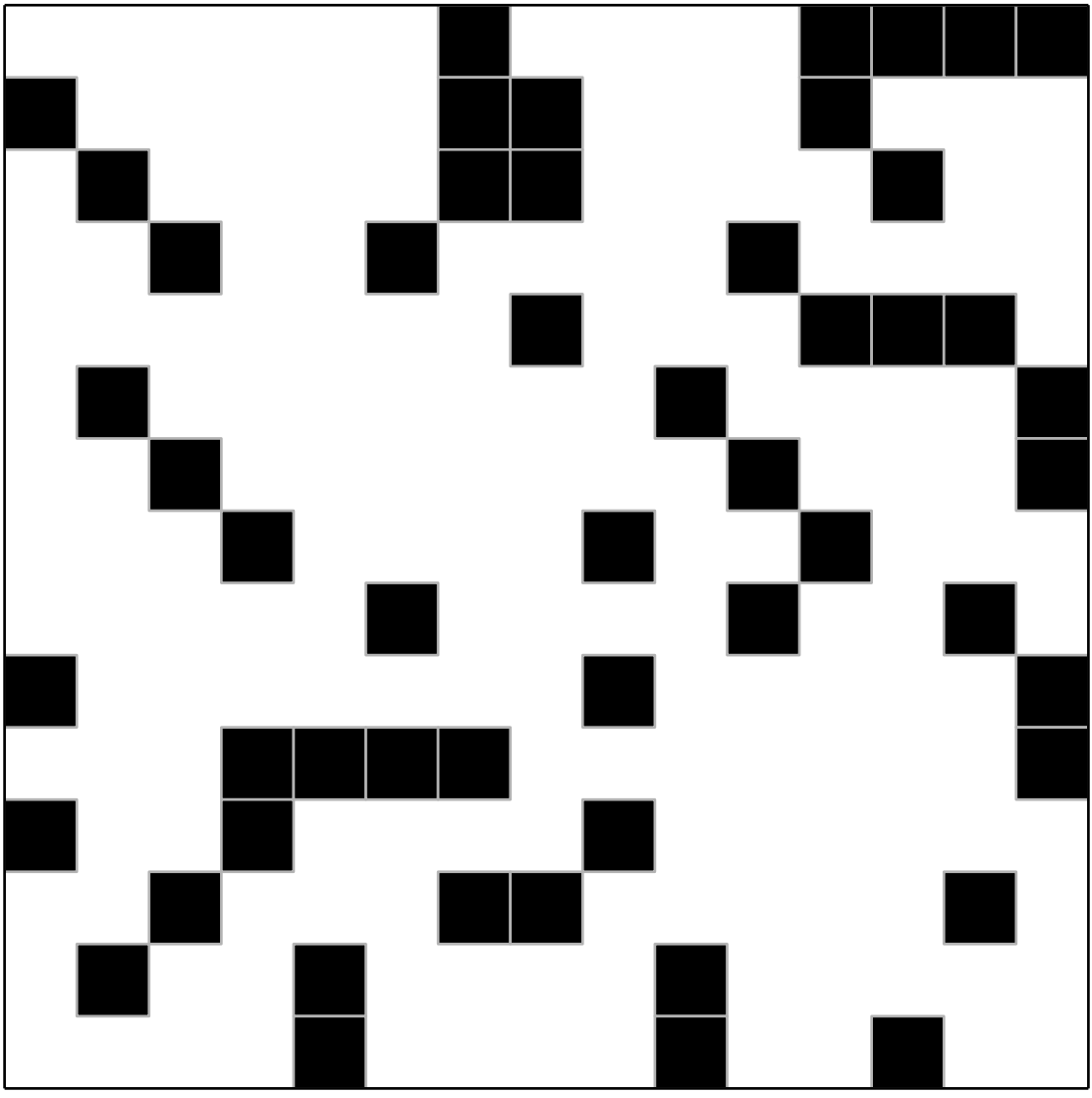
lib1_ex9_2_5-08 15x15 (53) con: 7, var: 8



lib1_ex9_2_5-08, cost: 4, diff: 4, explored: 14, time: 0.00s



lib1_ex9_2_5-09 15x15 (53) con: 7, var: 8



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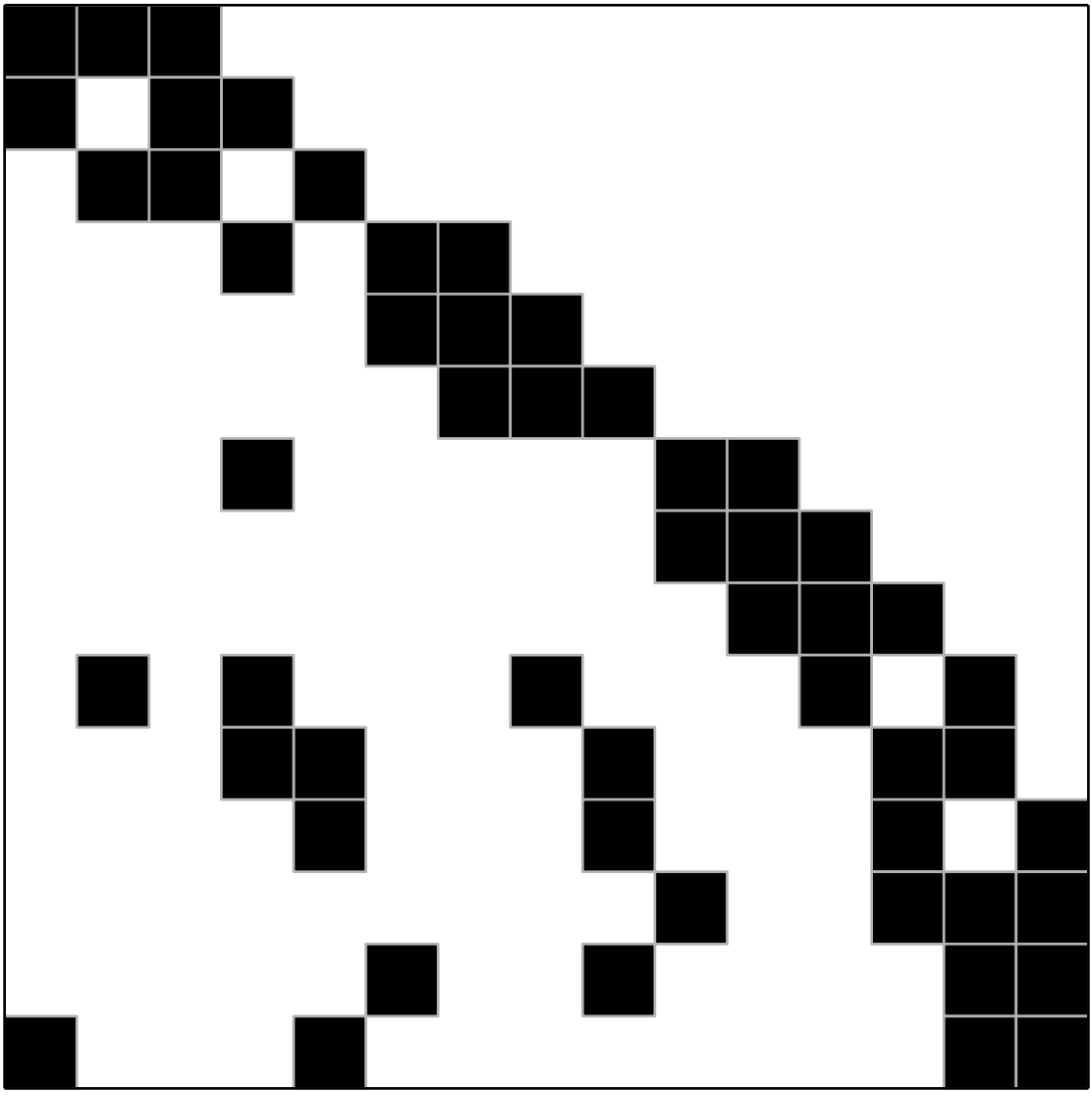
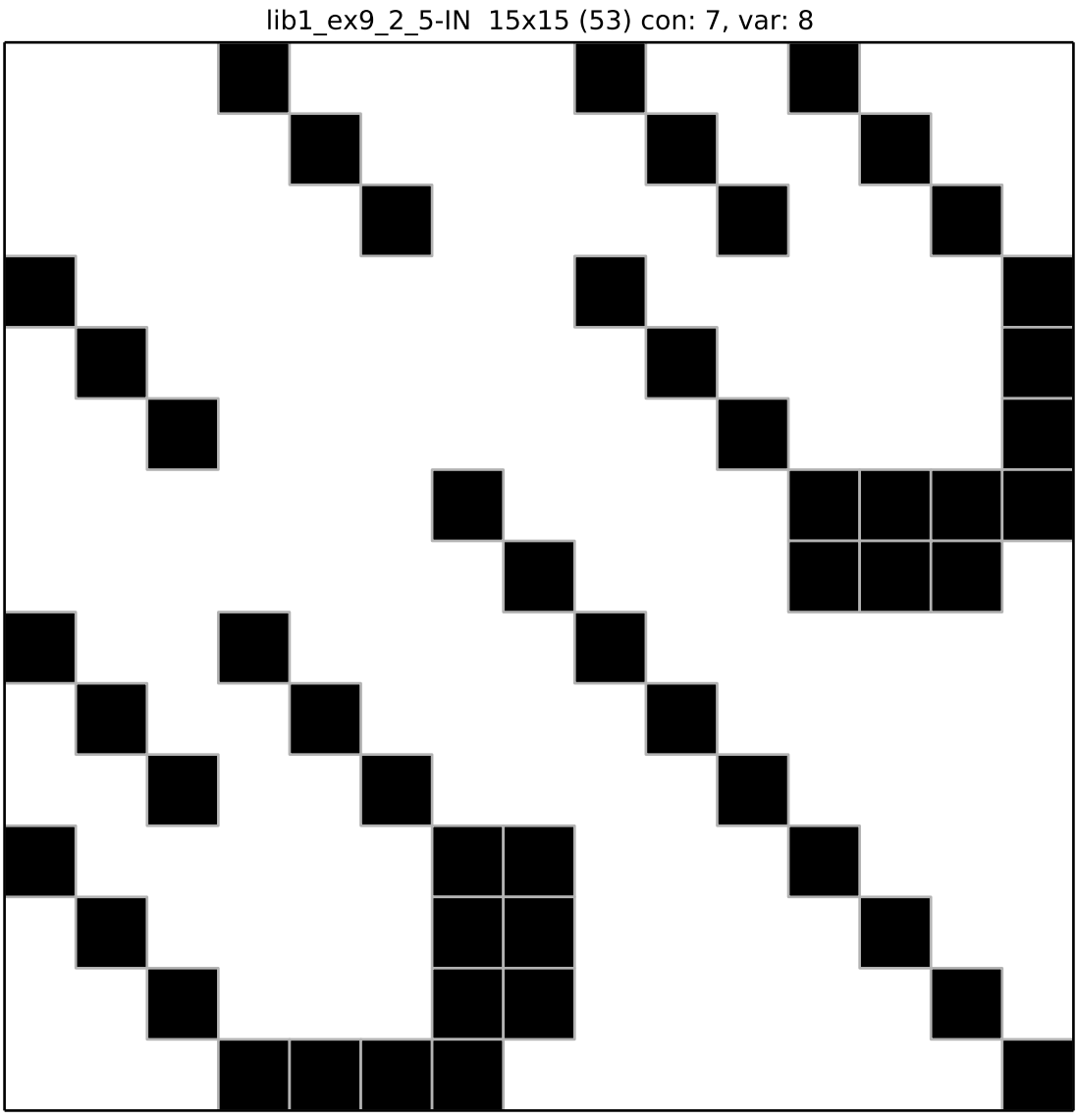
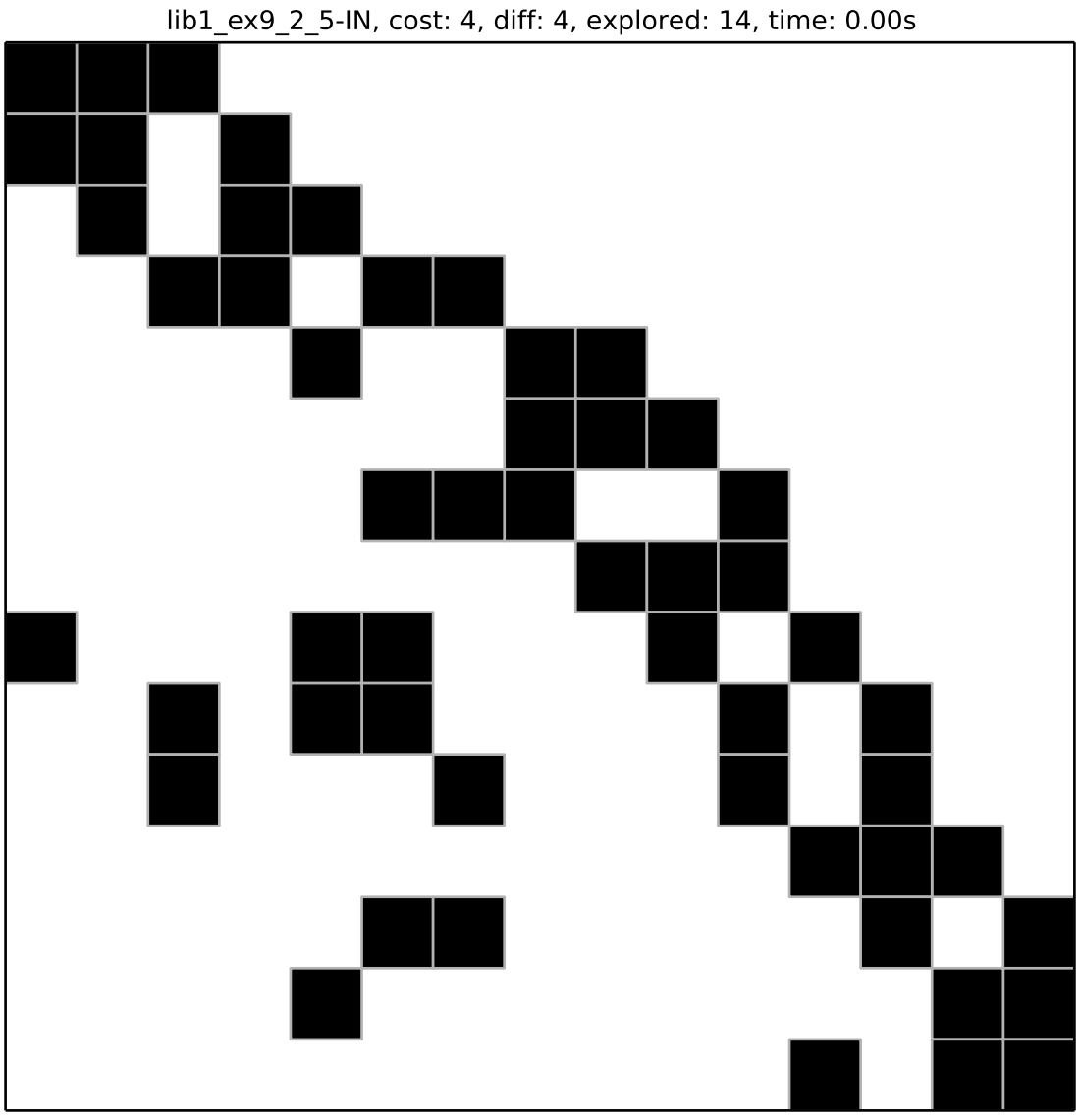



lib1_ex9_2_5-IN 15x15 (53) con: 7, var: 8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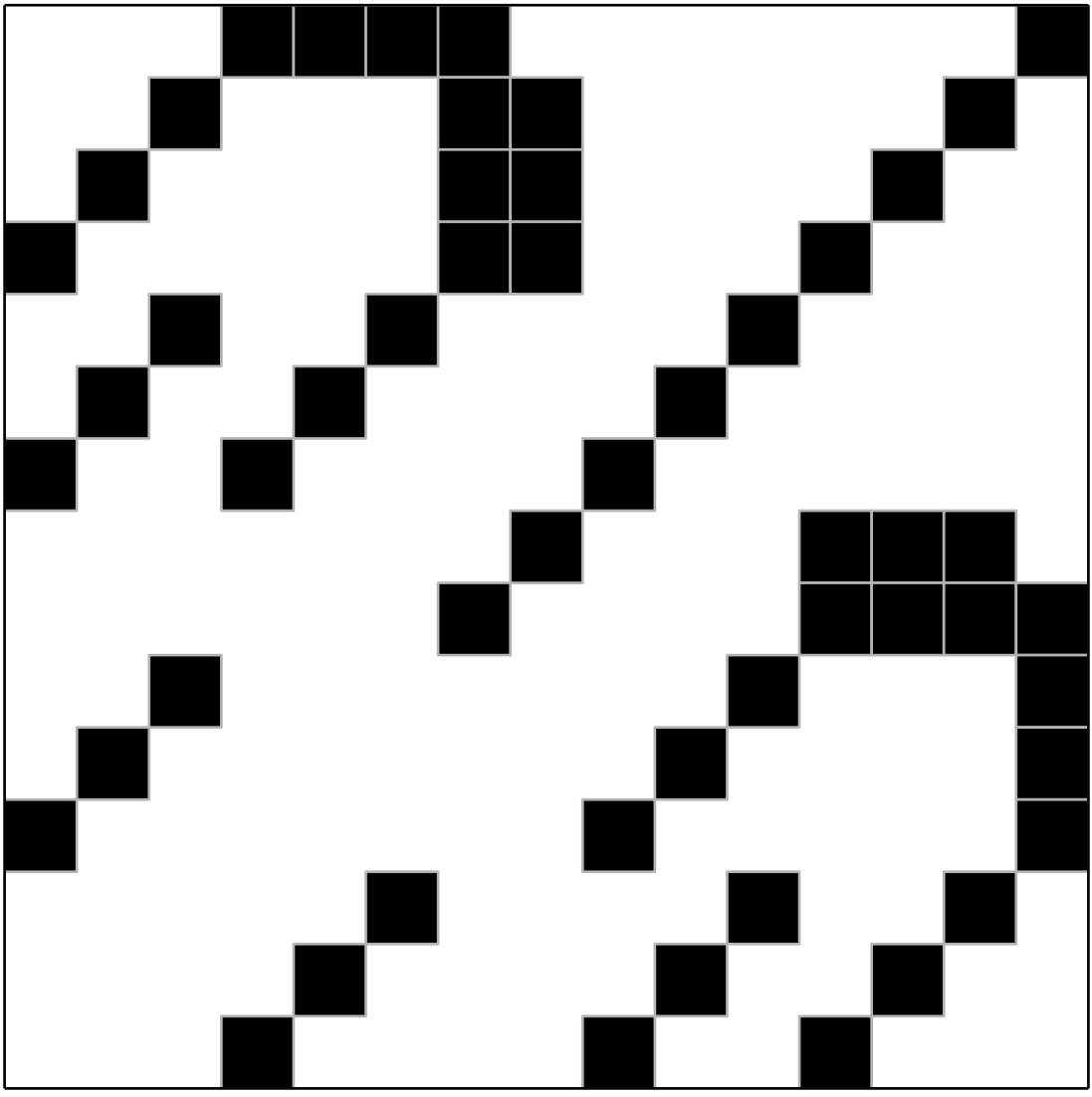
lib1_ex9_2_5-RE 15x15 (53) con: 7, var: 8



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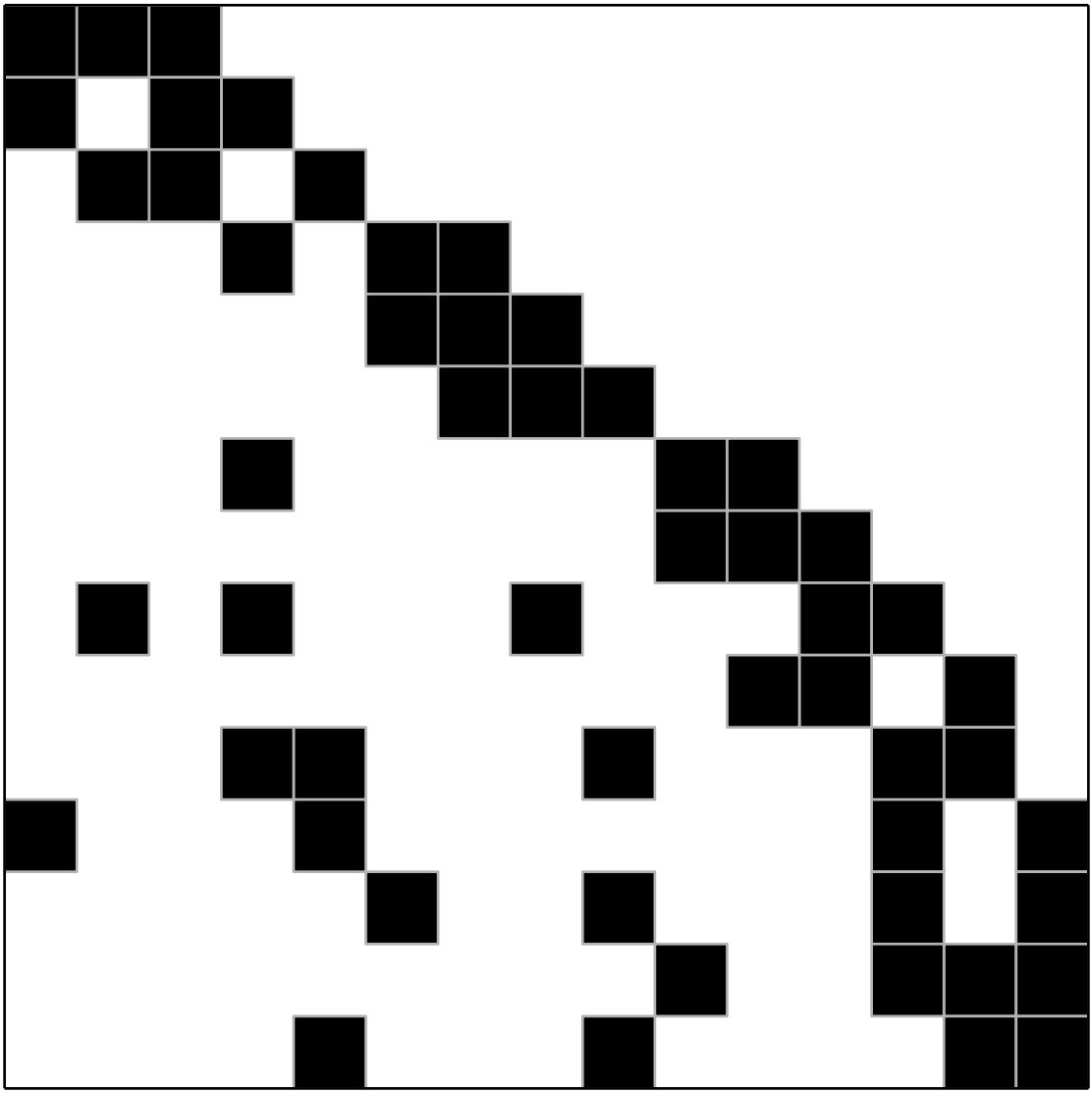
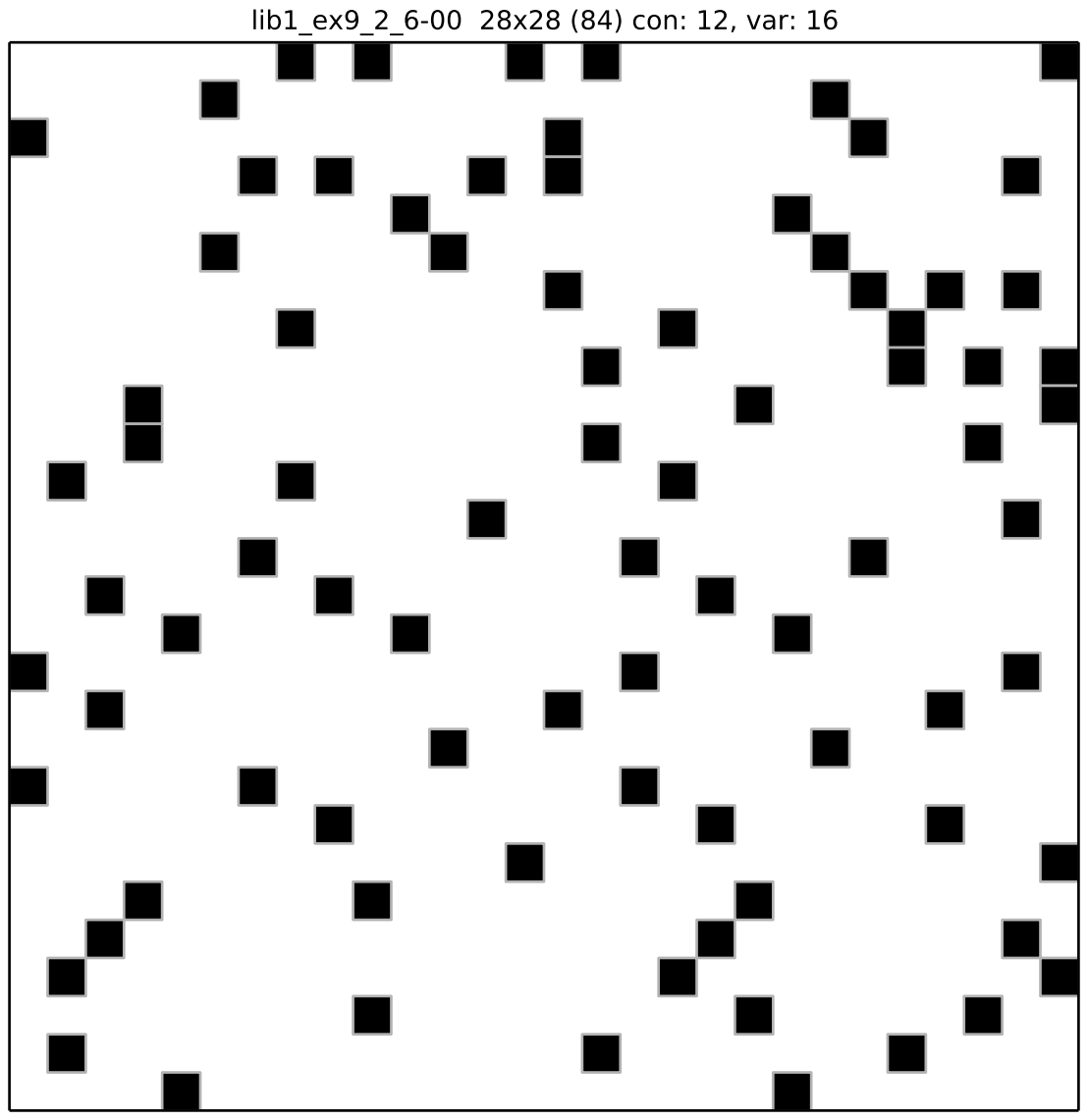
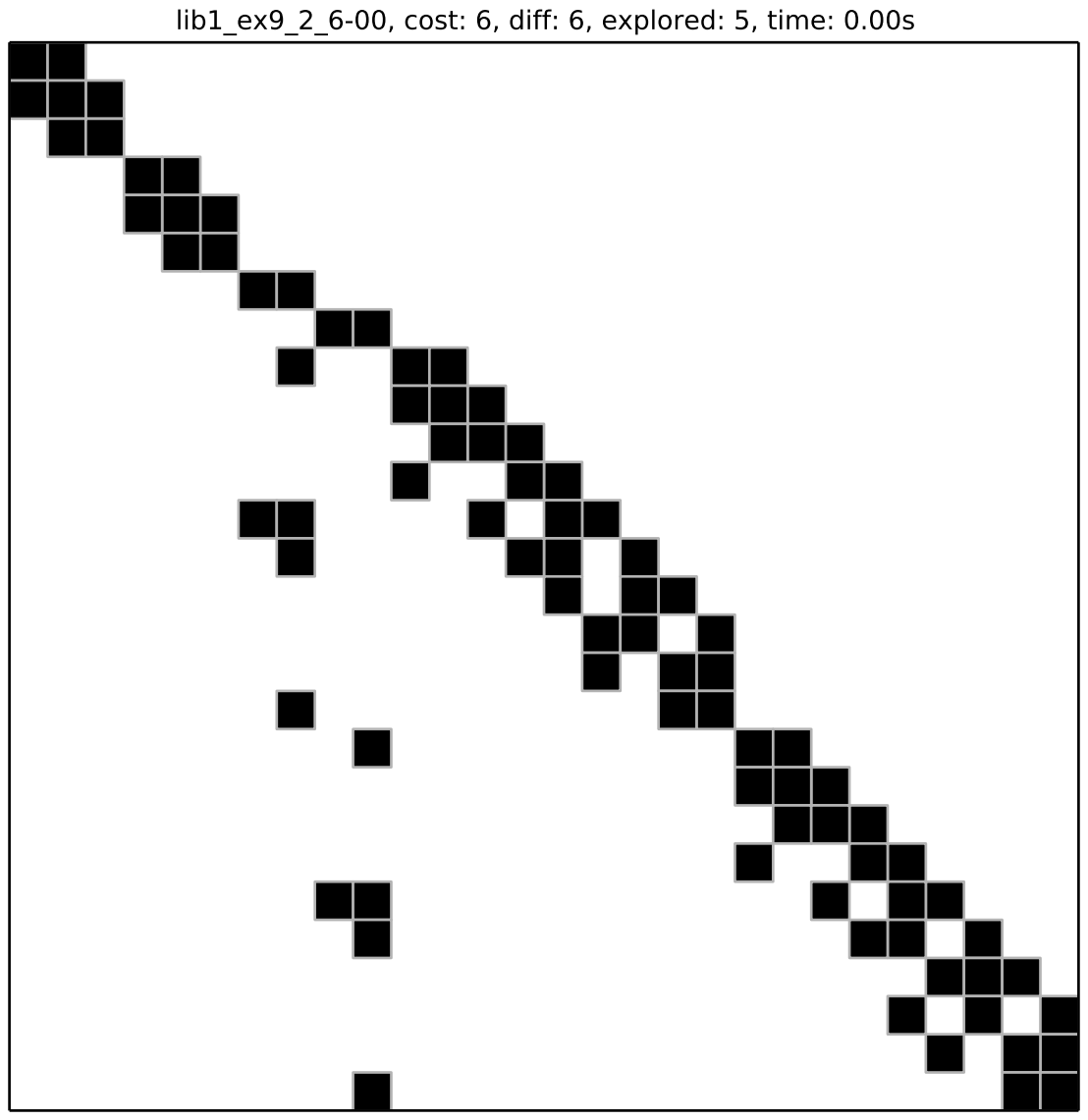
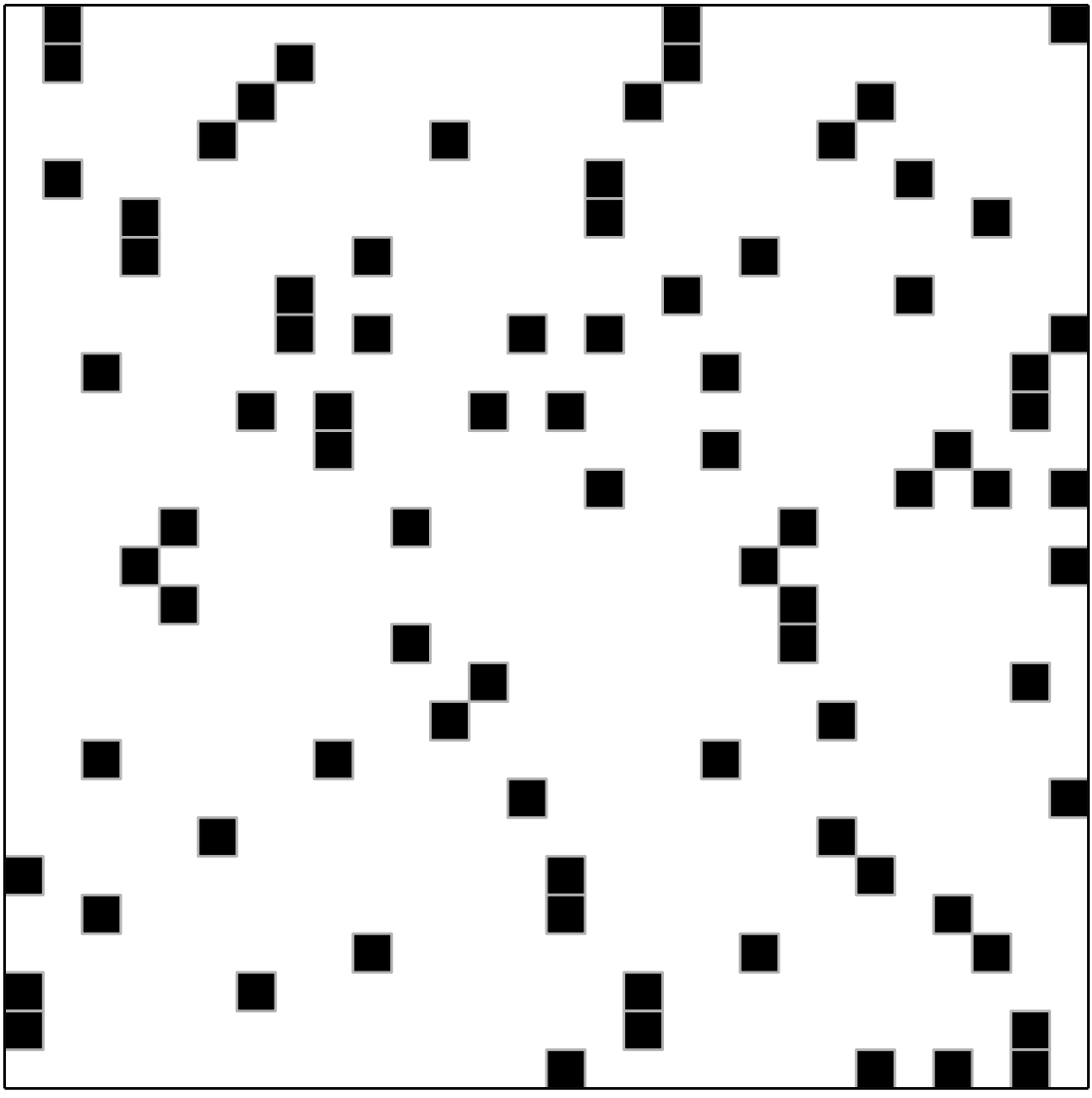
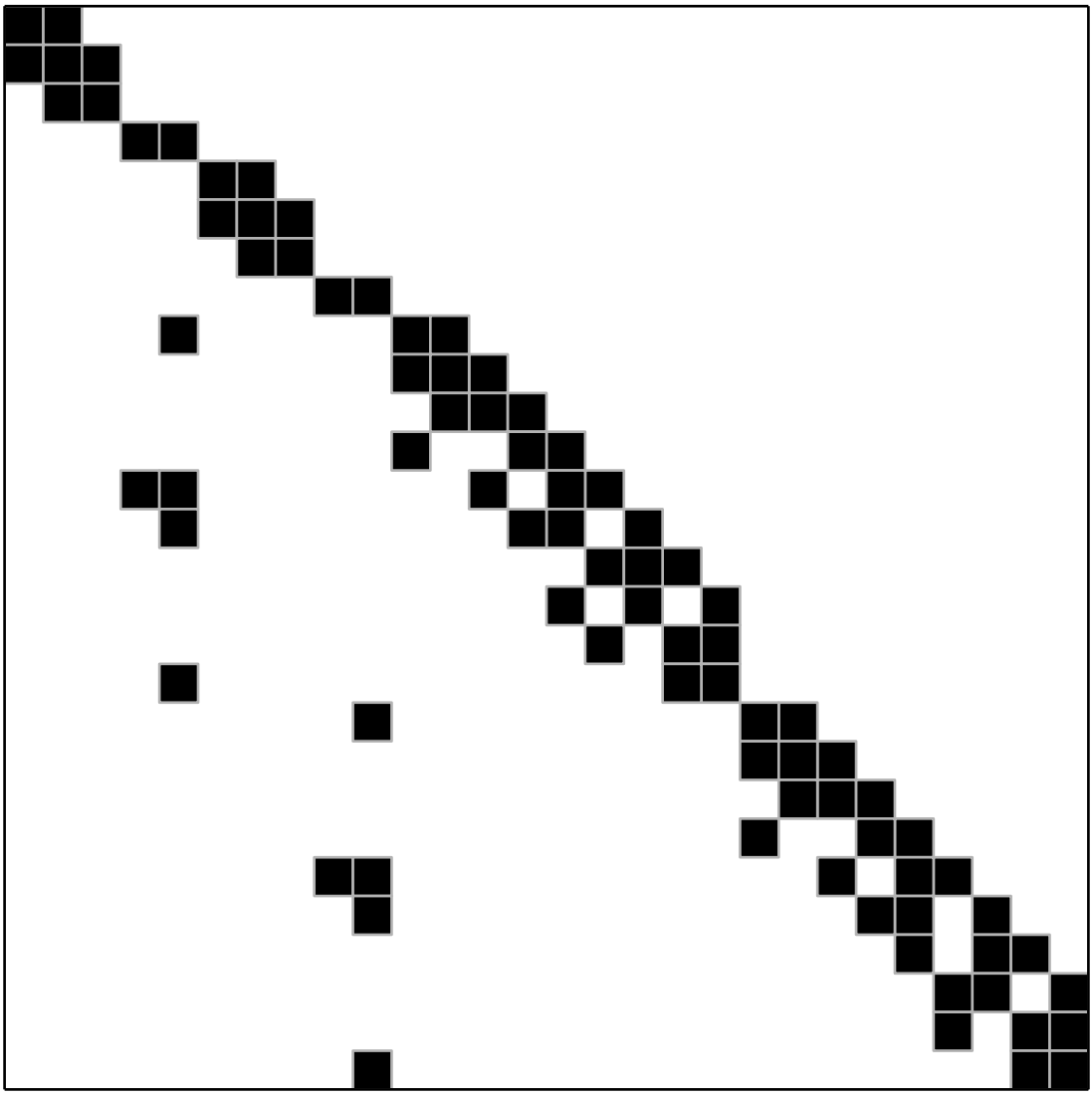



lib1_ex9_2_6-00 28x28 (84) con: 12, var: 16


lib1_ex9_2_6-00, cost: 6, diff: 6, explored: 5, time: 0.00s

lib1_ex9_2_6-01 28x28 (84) con: 12, var: 16

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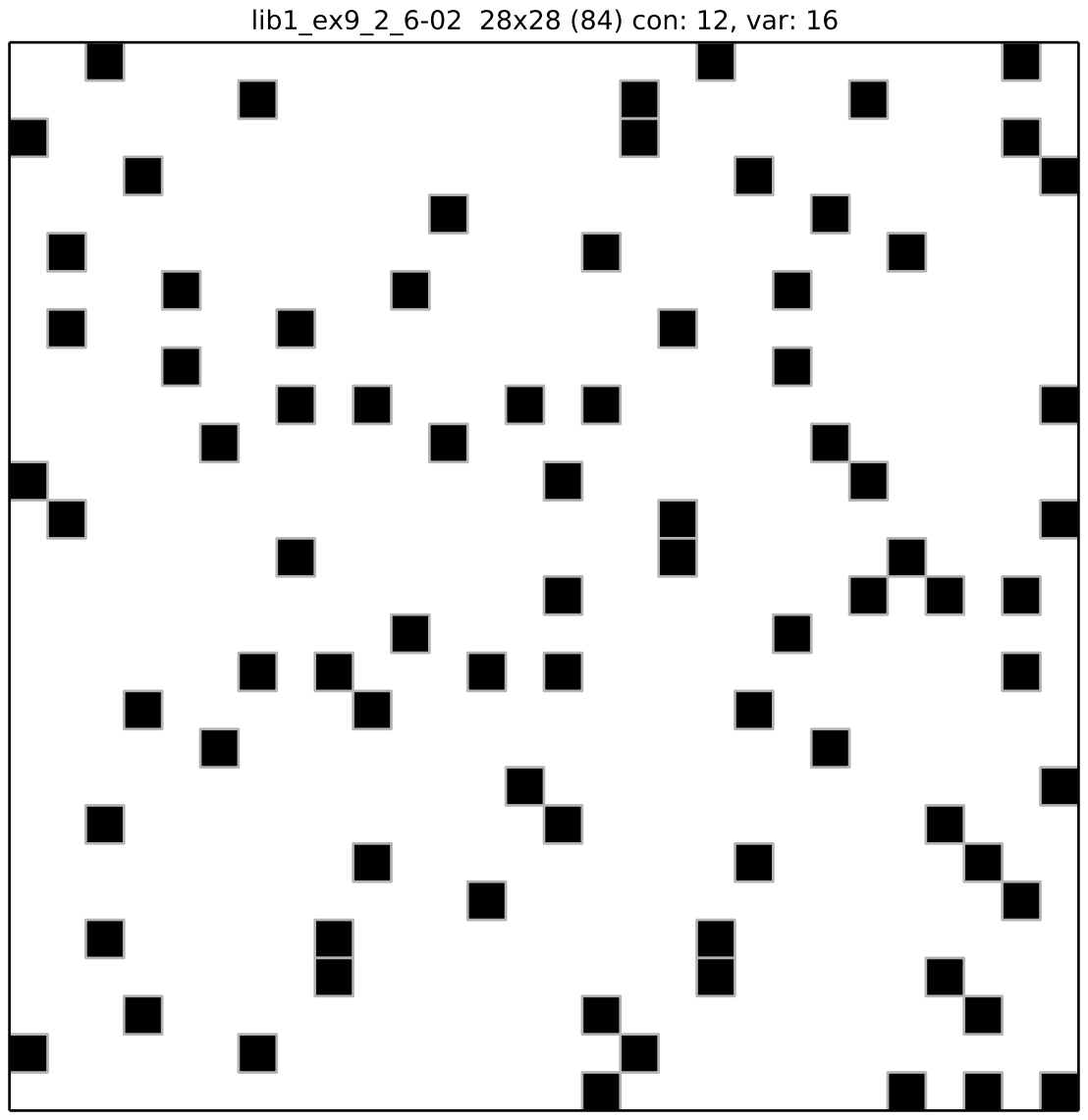
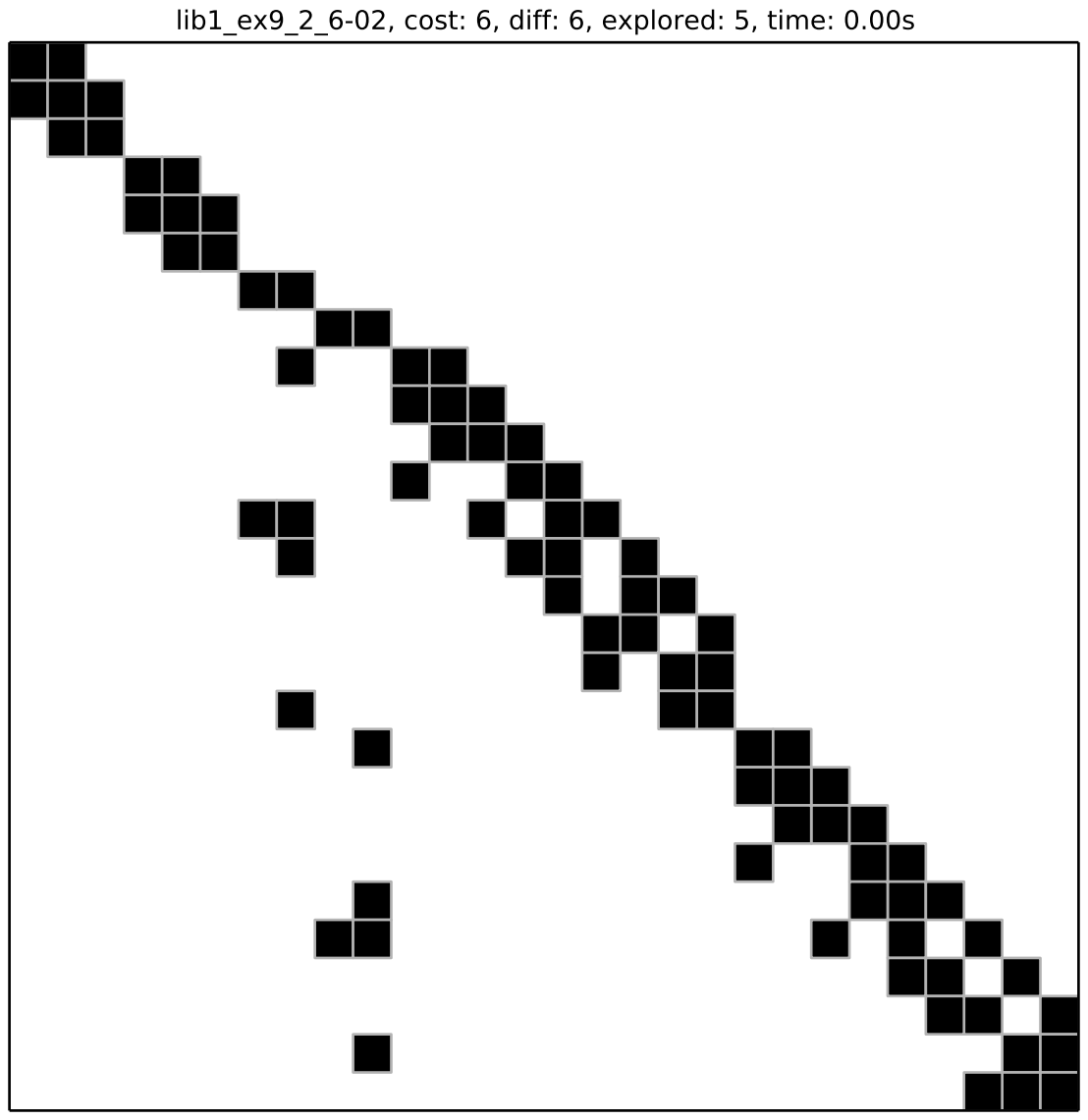
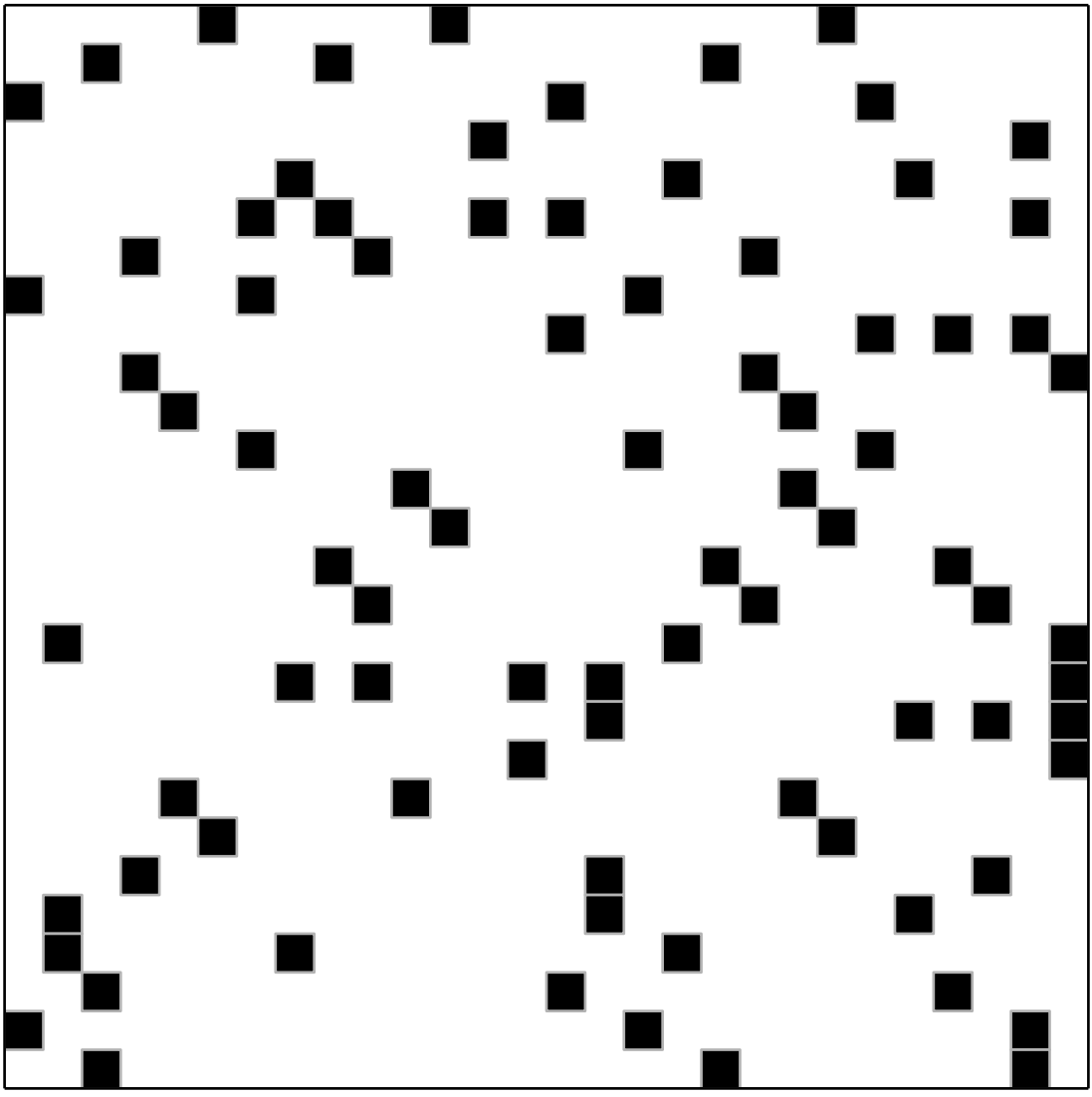
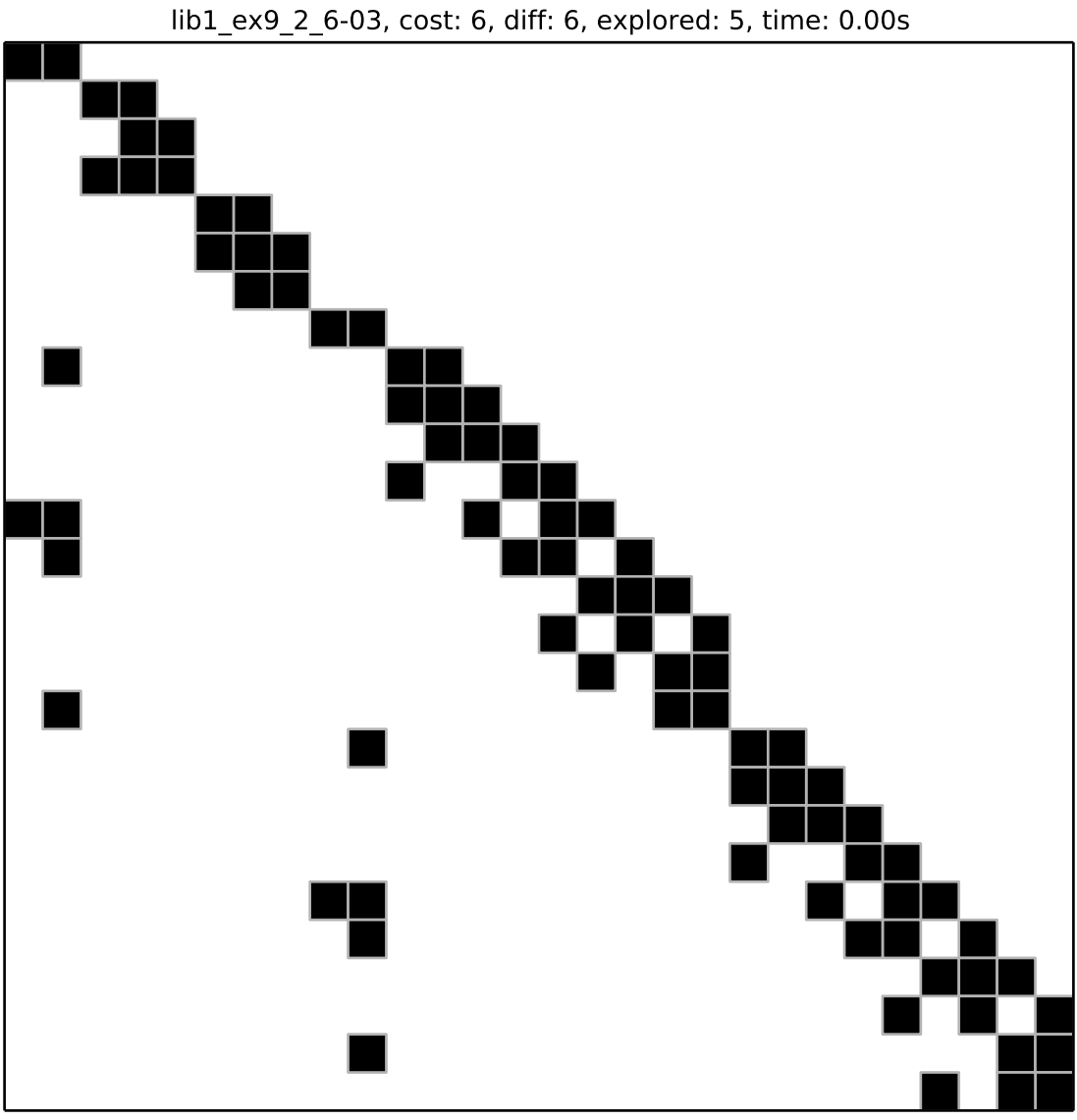

lib1_ex9_2_6-02 28x28 (84) con: 12, var: 16


lib1_ex9_2_6-02, cost: 6, diff: 6, explored: 5, time: 0.00s

lib1_ex9_2_6-03 28x28 (84) con: 12, var: 16

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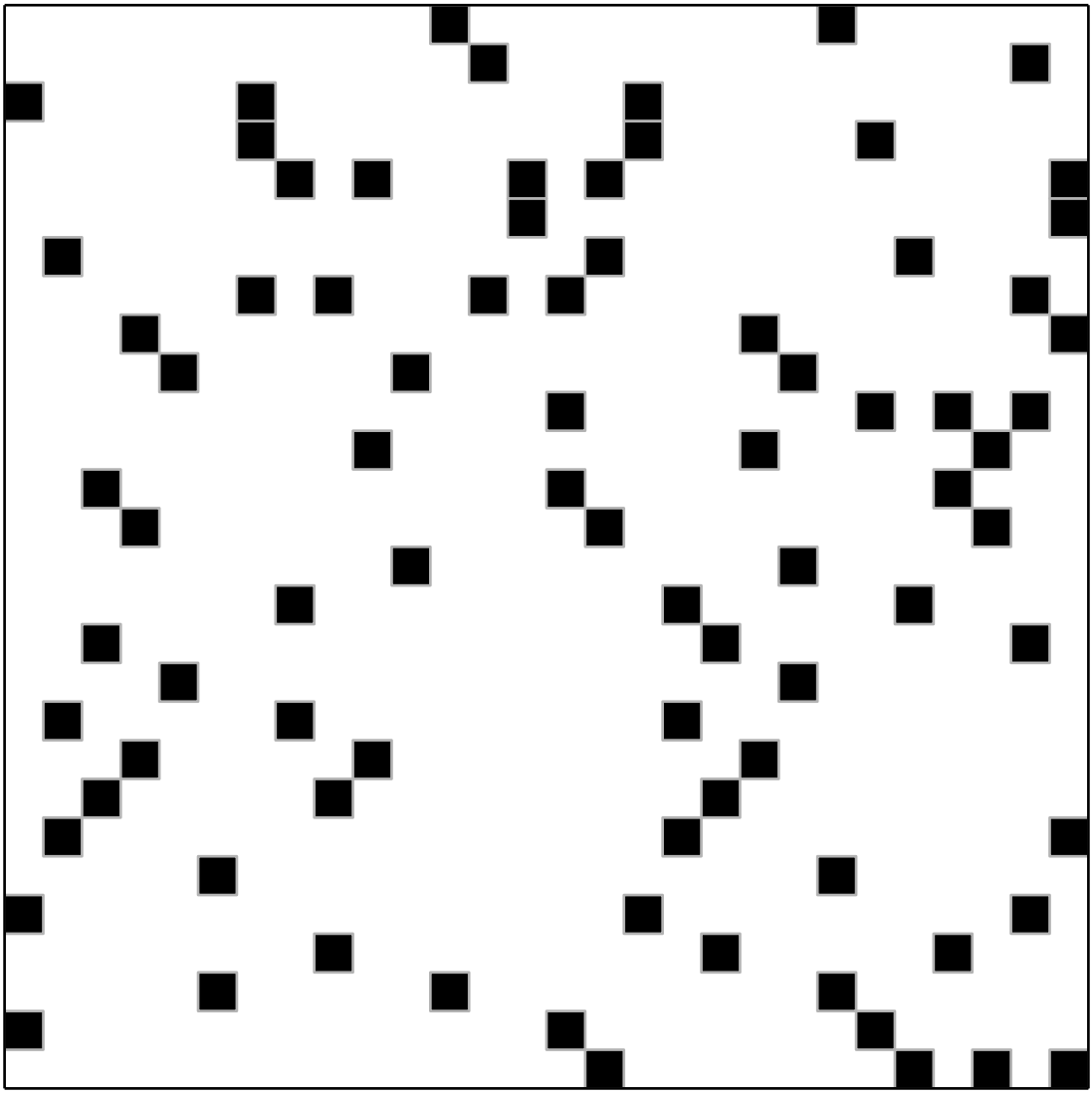
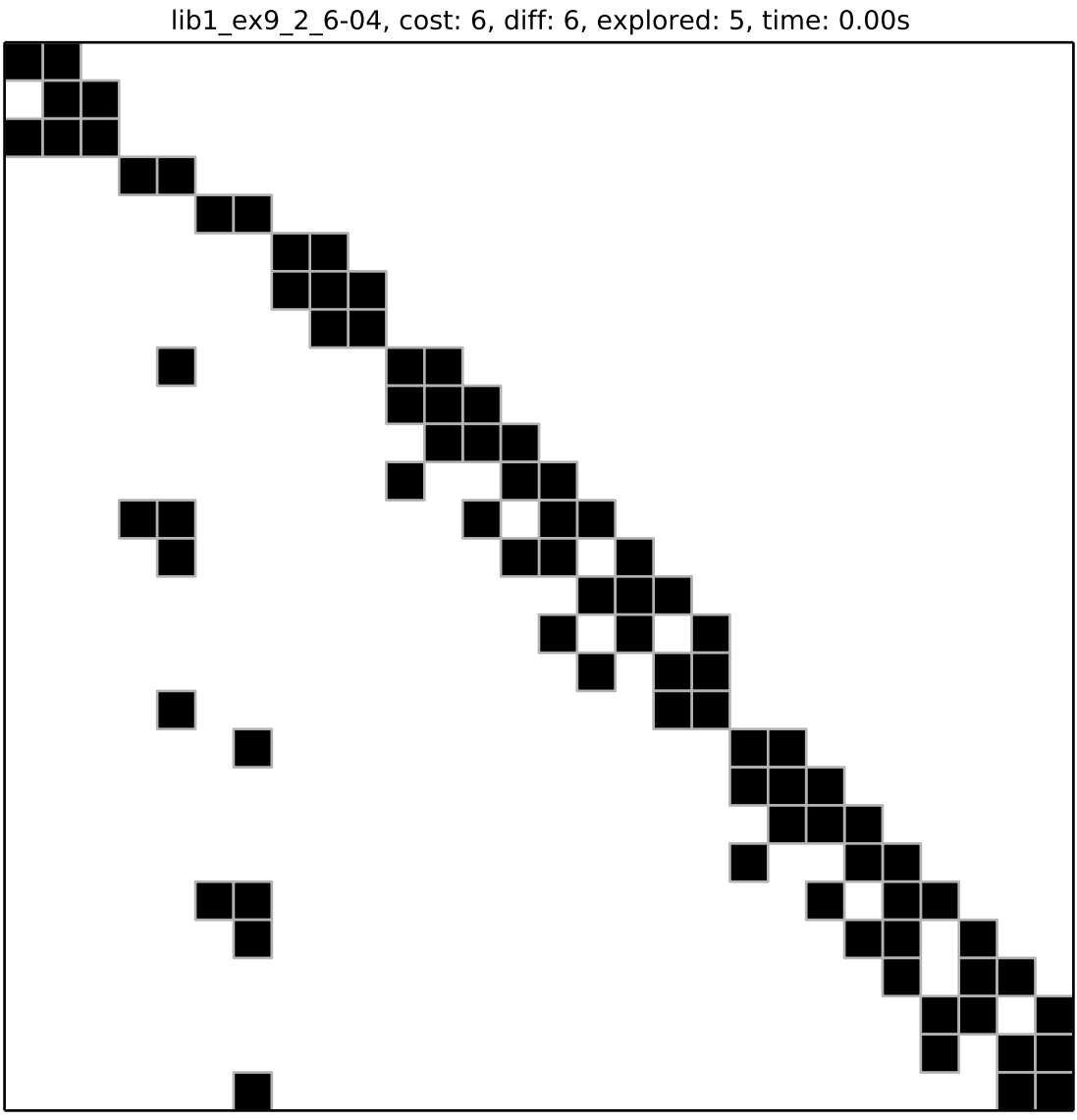
lib1_ex9_2_6-04 28x28 (84) con: 12, var: 16

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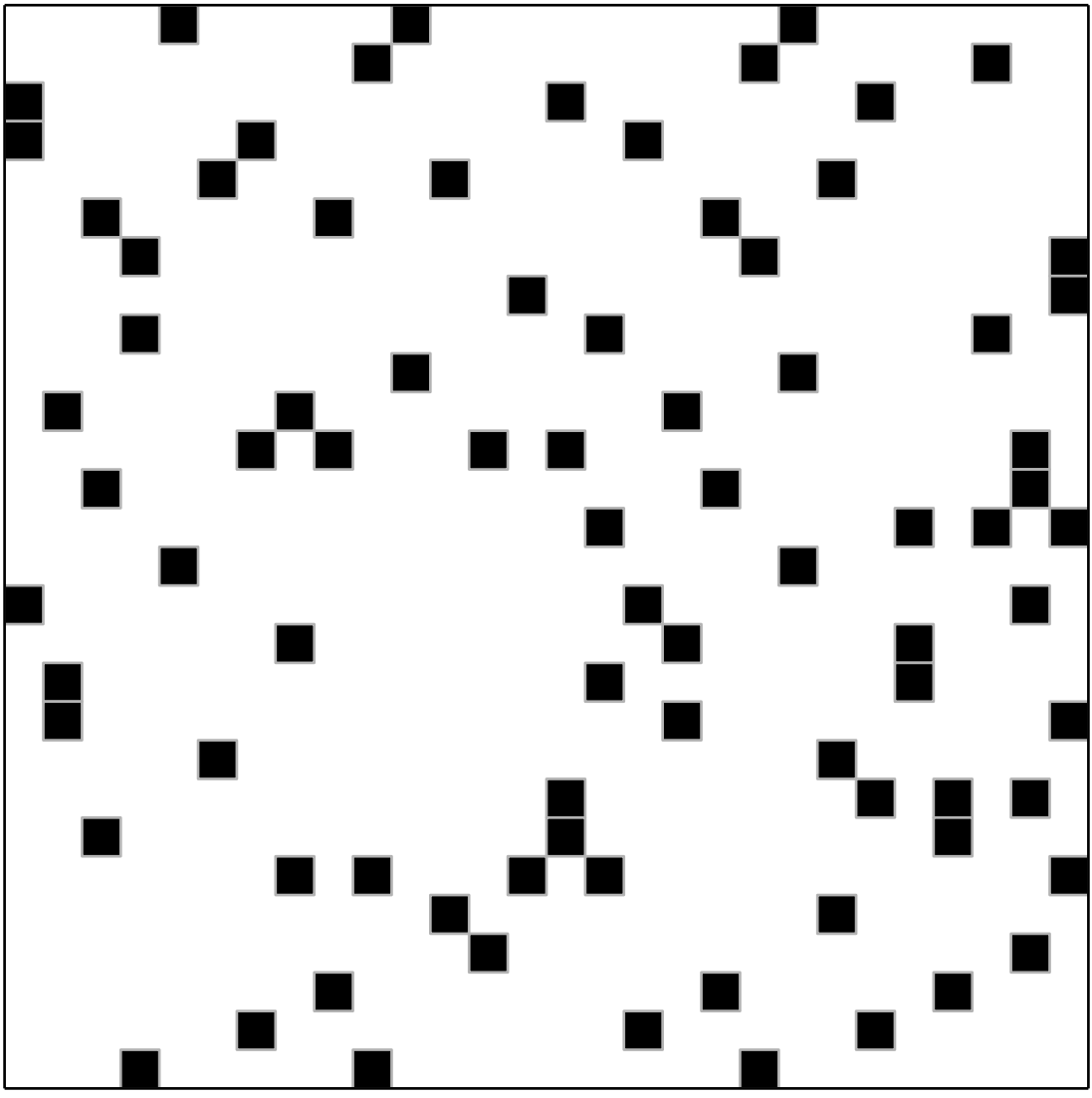
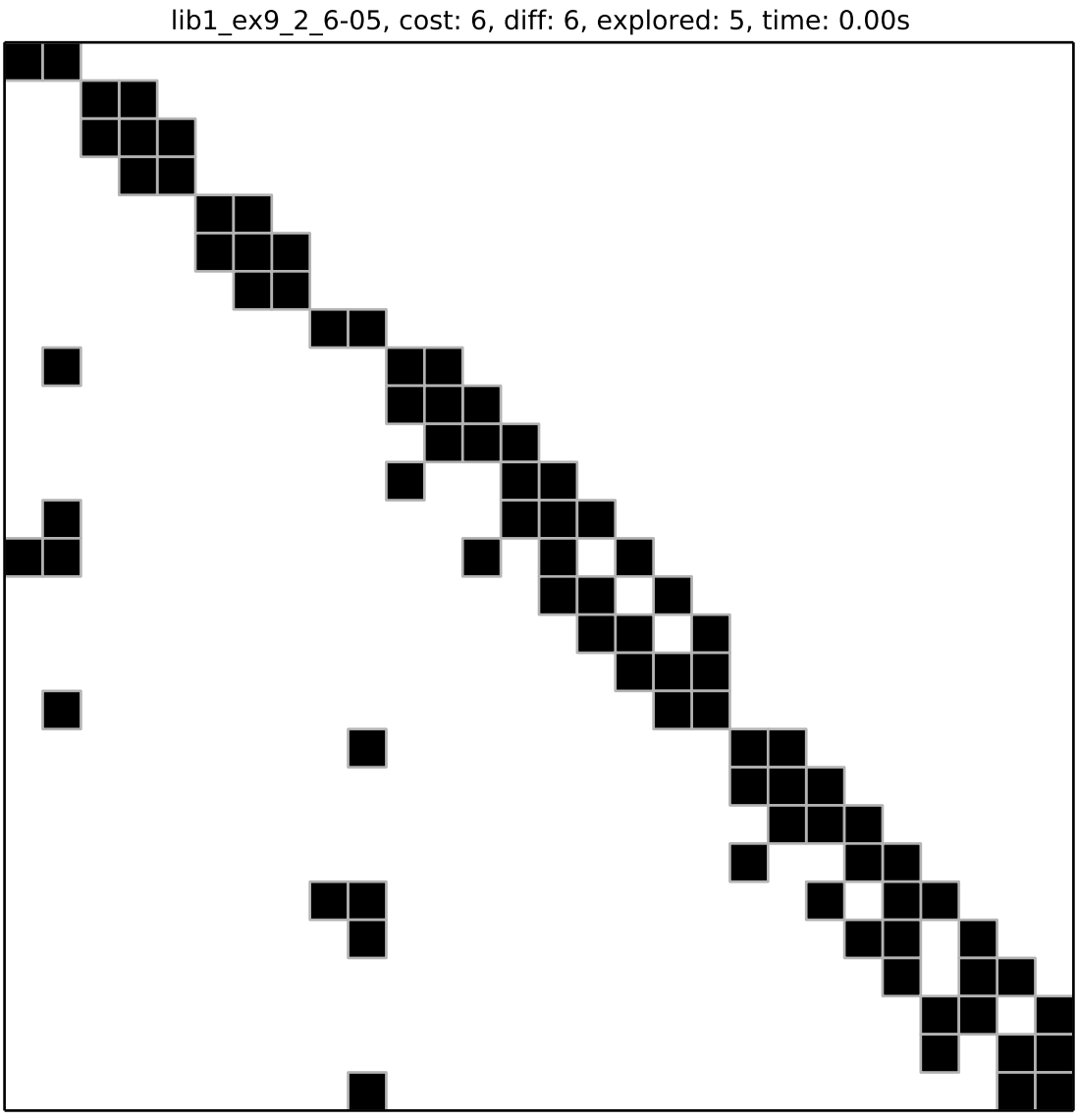
lib1_ex9_2_6-05 28x28 (84) con: 12, var: 16

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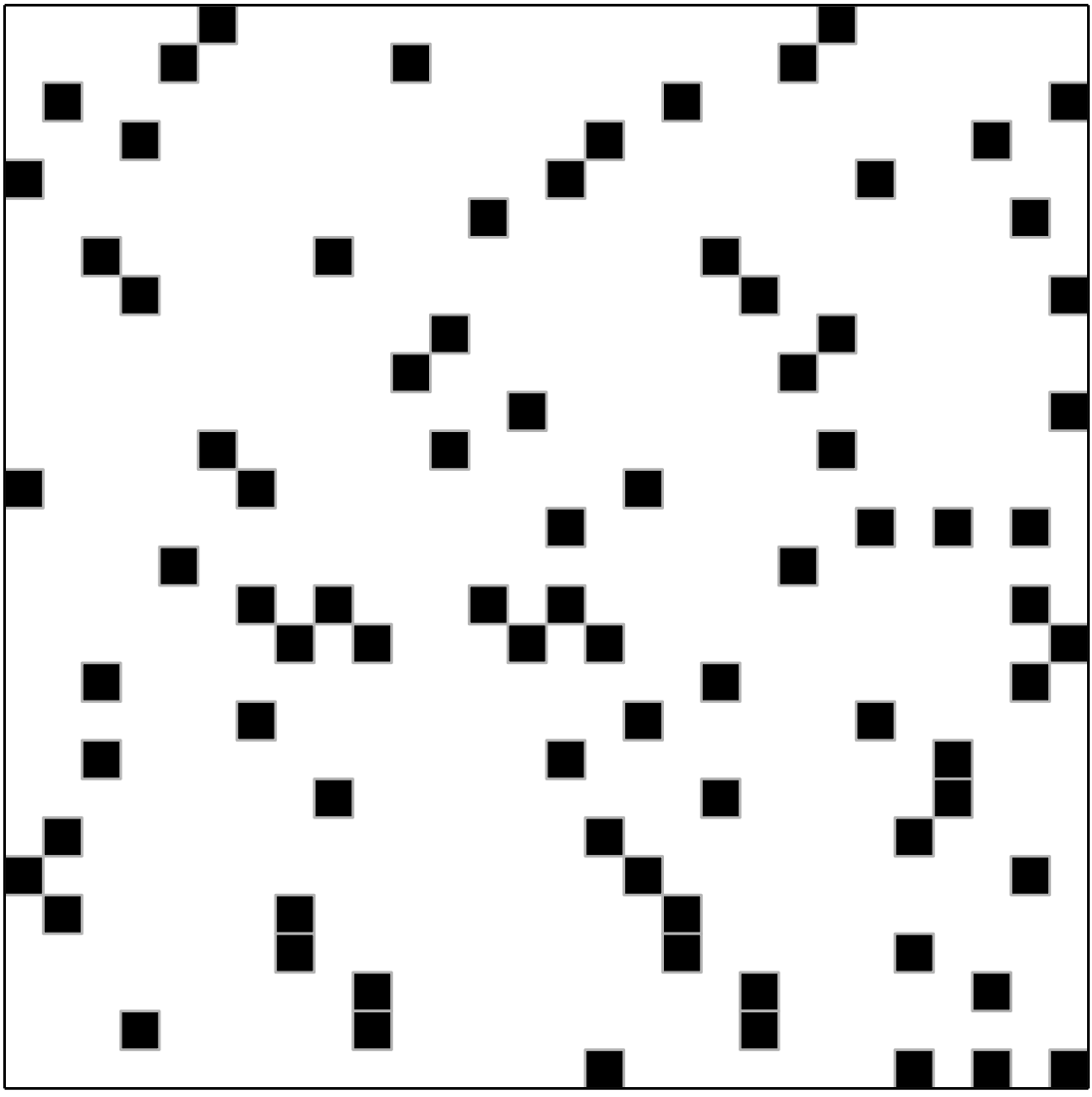
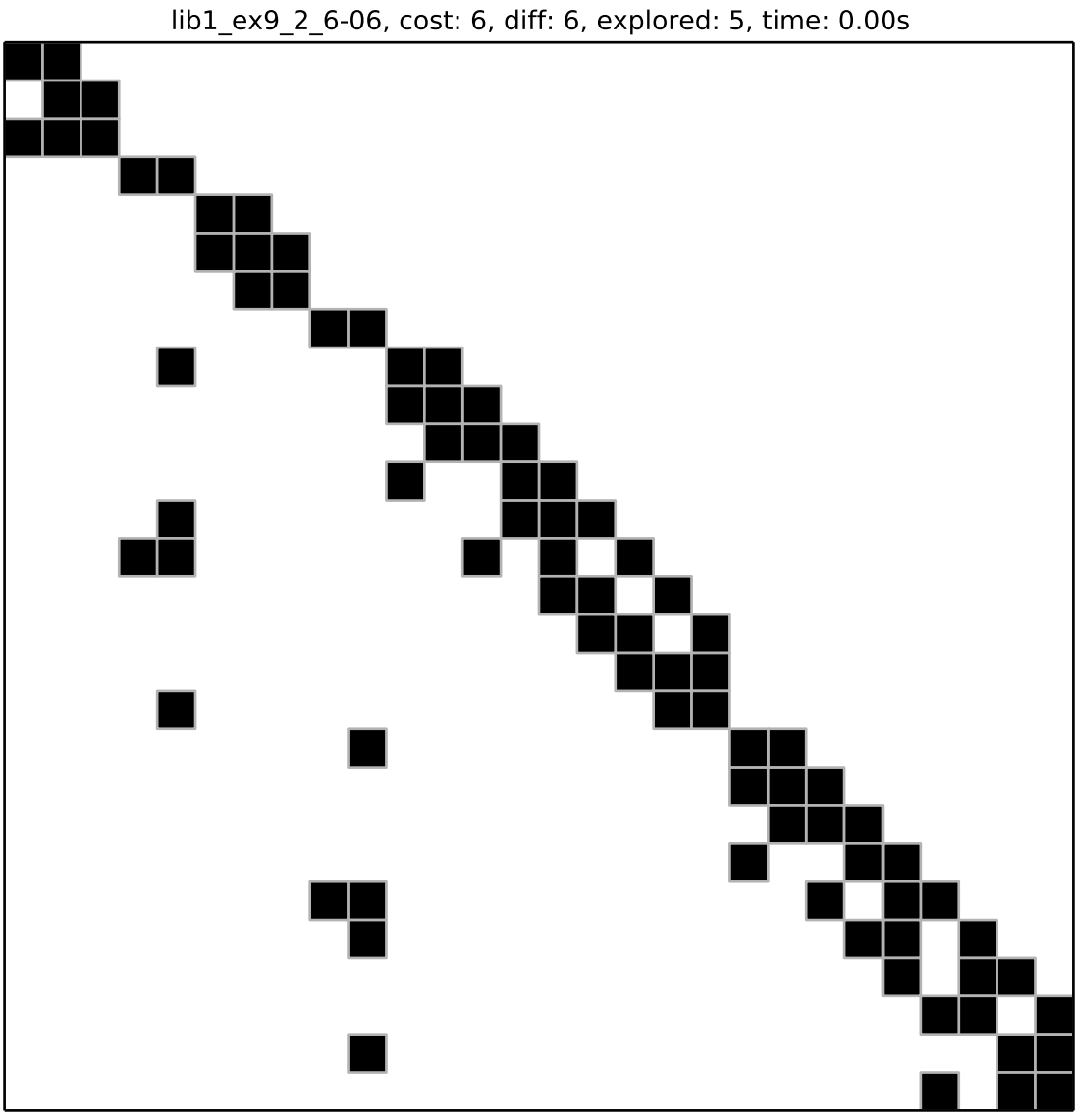
lib1_ex9_2_6-06 28x28 (84) con: 12, var: 16

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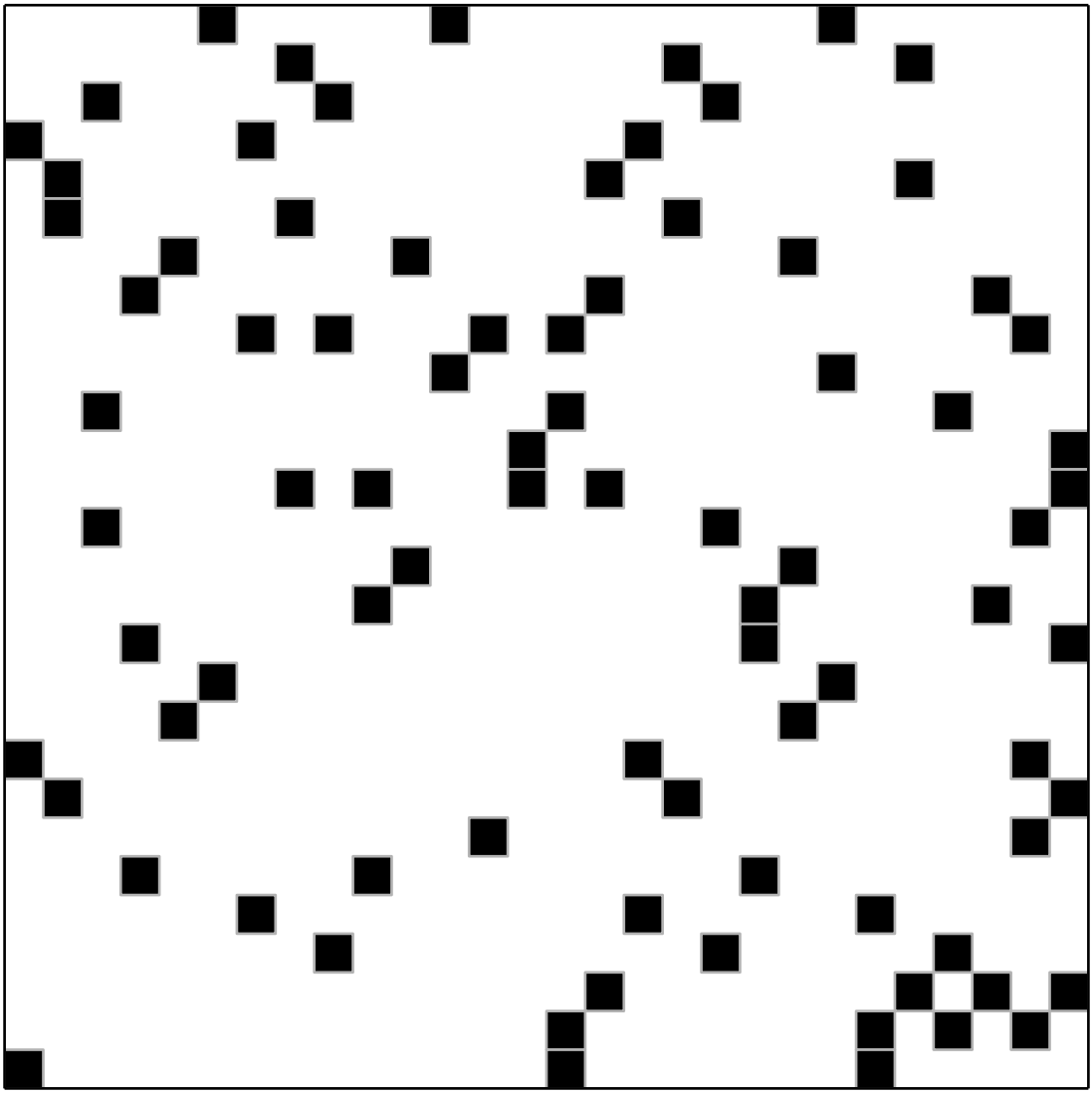
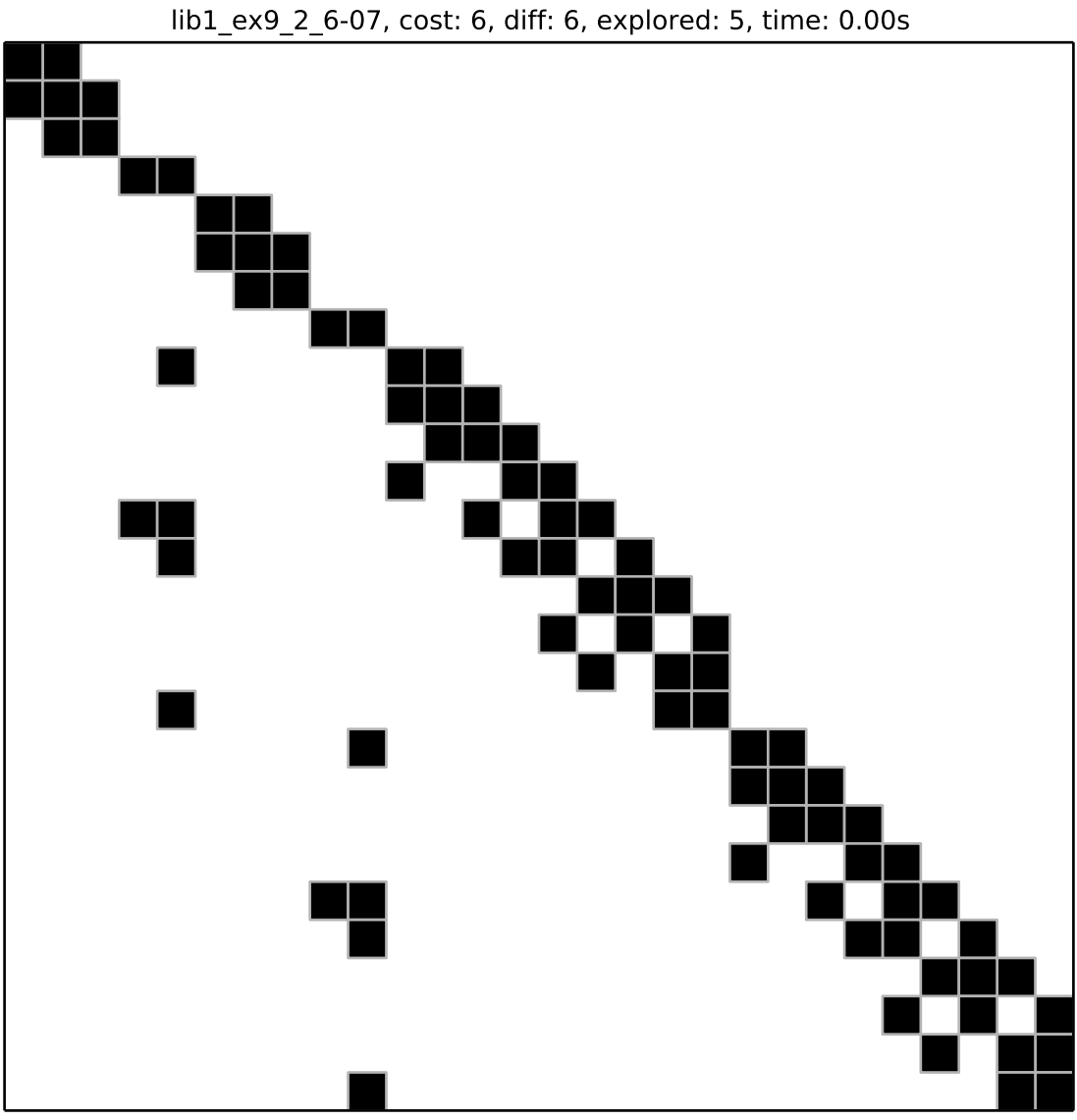
lib1_ex9_2_6-07 28x28 (84) con: 12, var: 16

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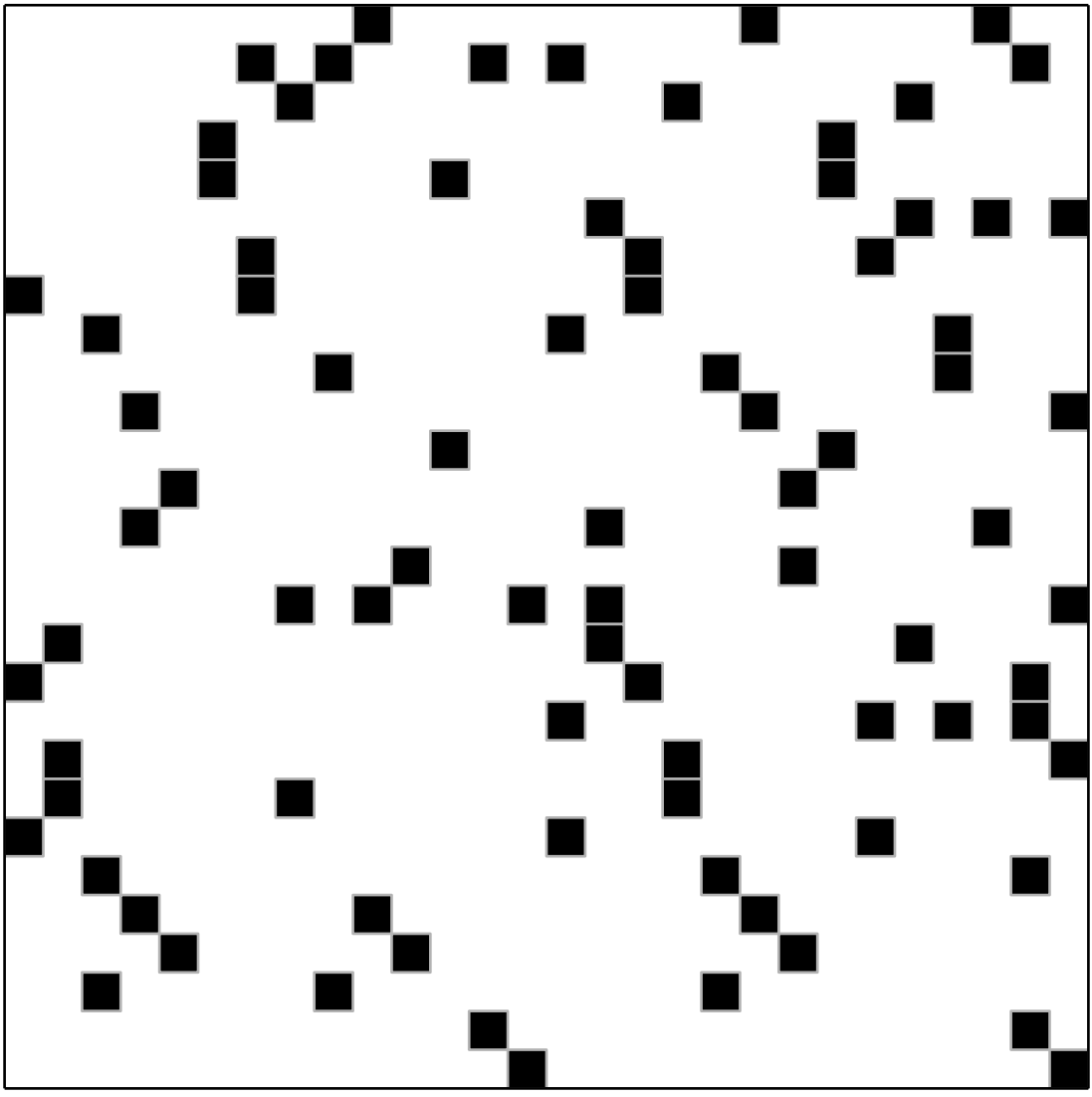
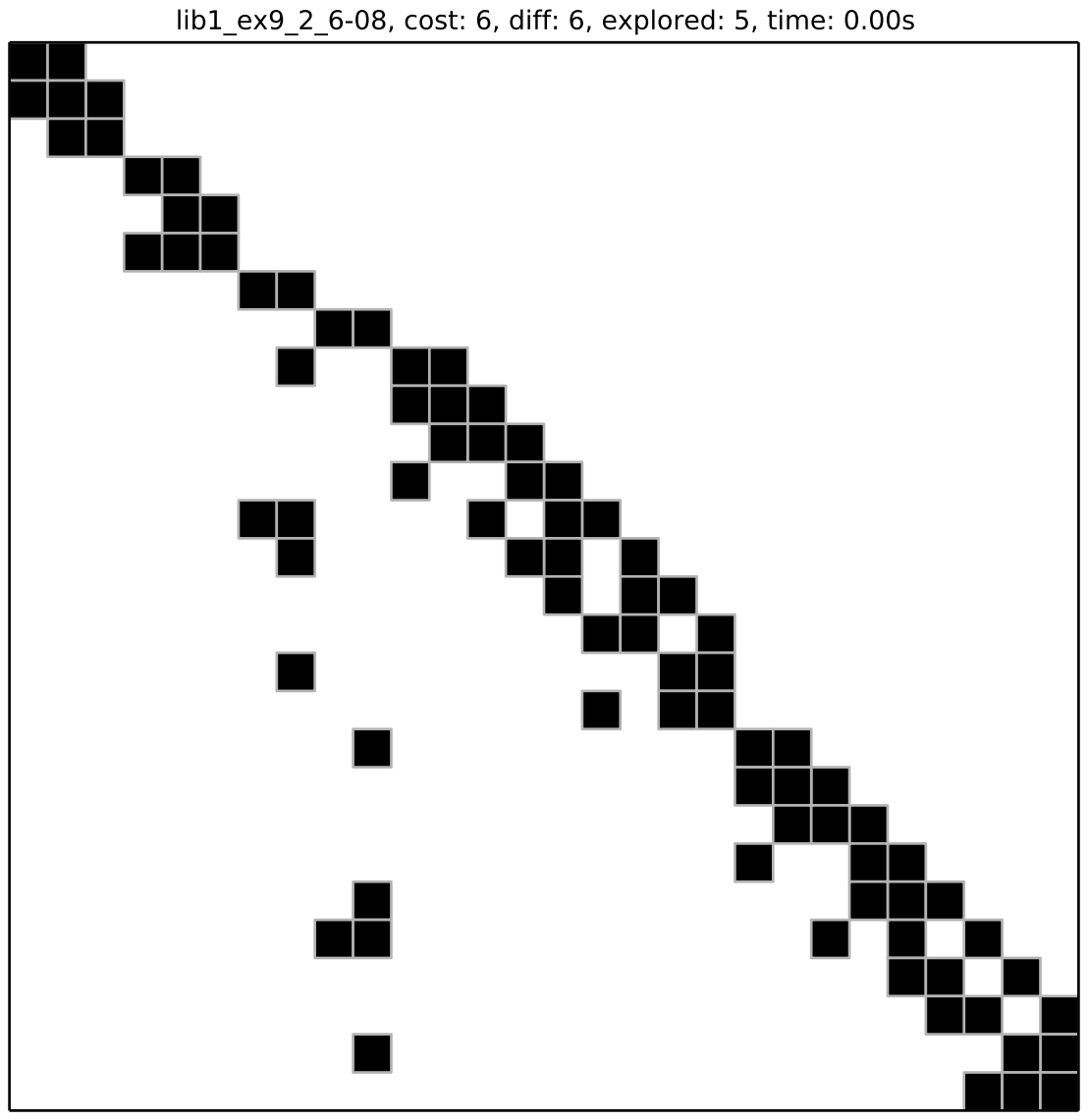
lib1_ex9_2_6-08 28x28 (84) con: 12, var: 16

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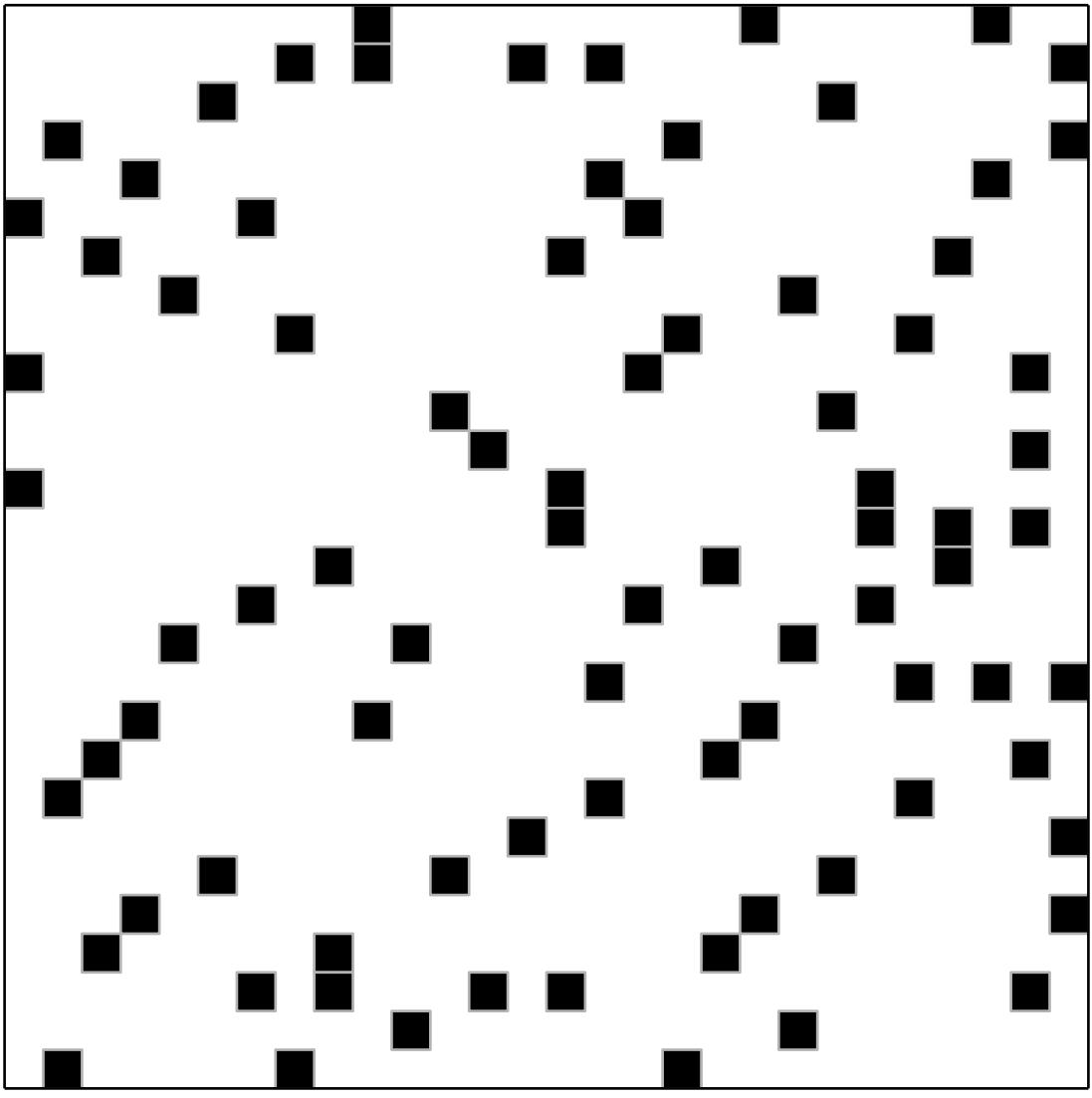
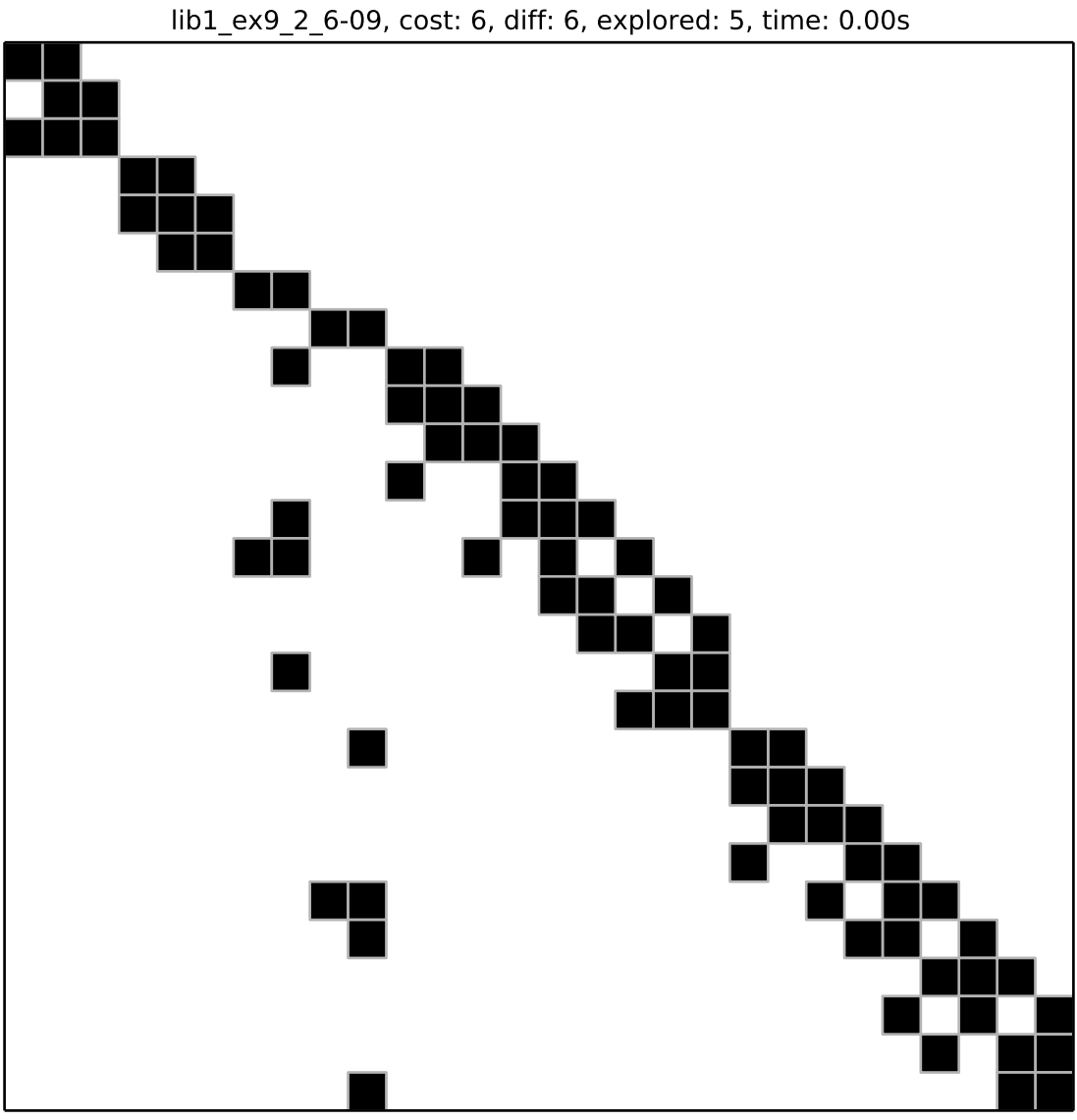
lib1_ex9_2_6-09 28x28 (84) con: 12, var: 16

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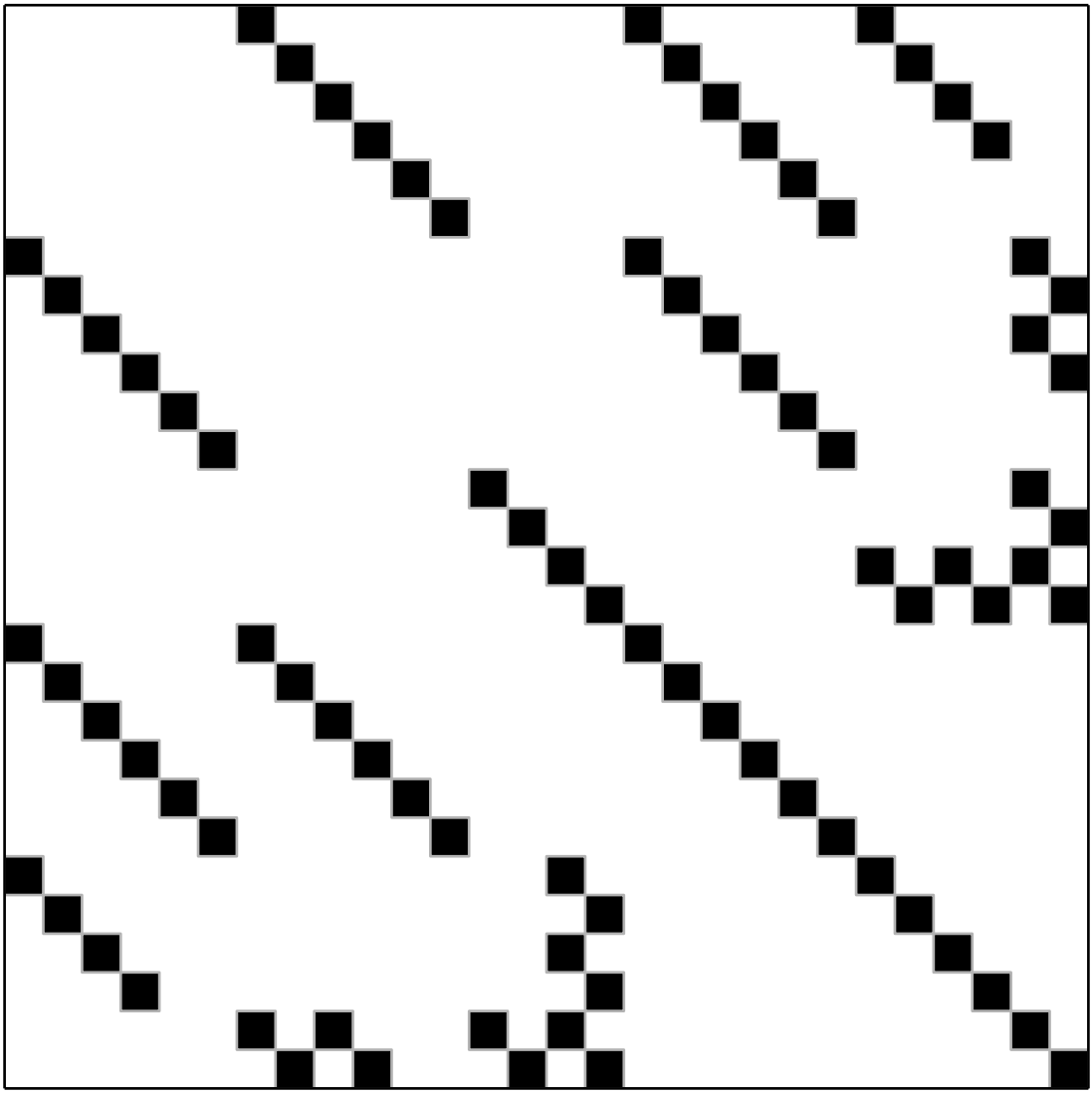
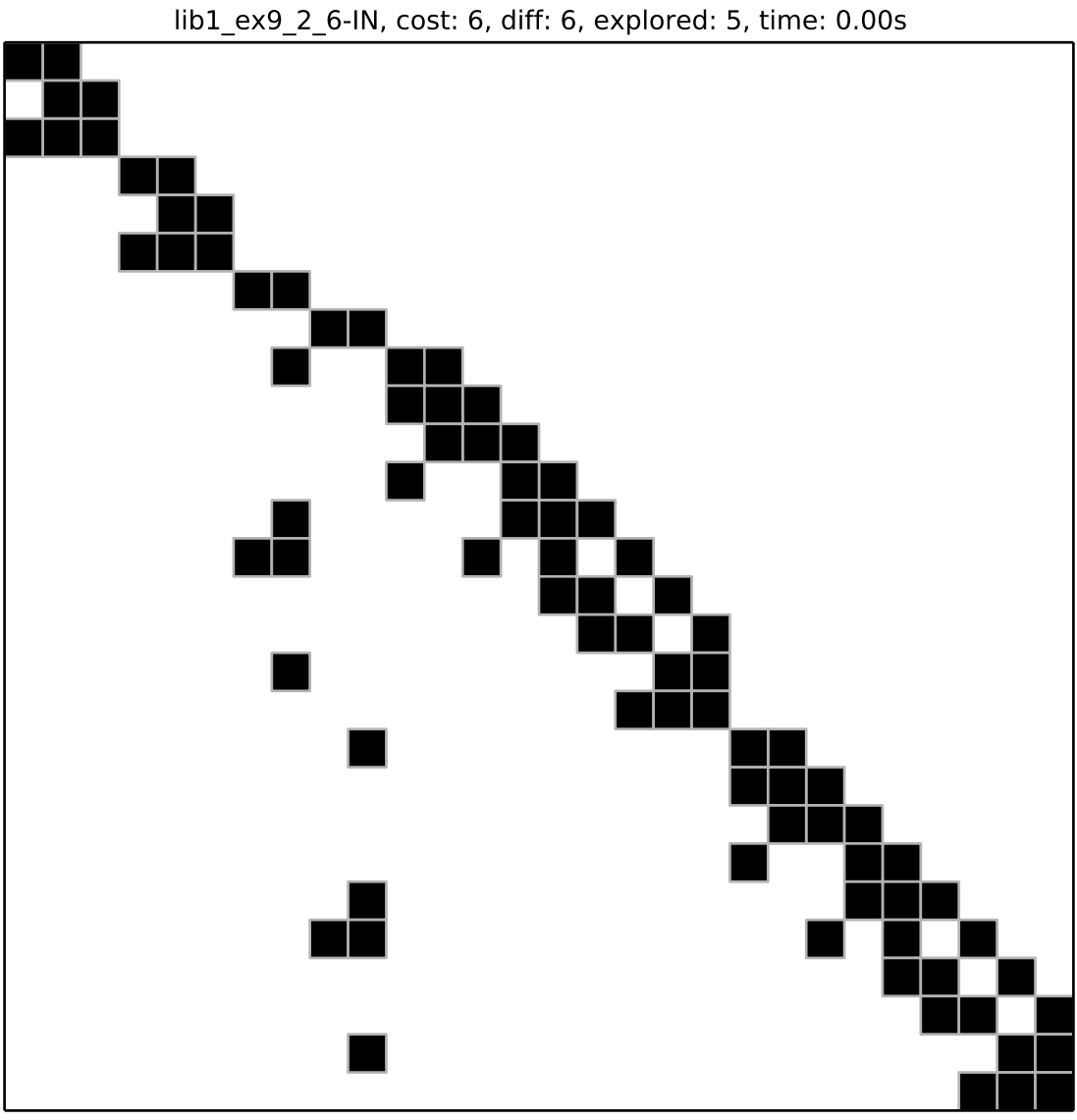
lib1_ex9_2_6-IN 28x28 (84) con: 12, var: 16

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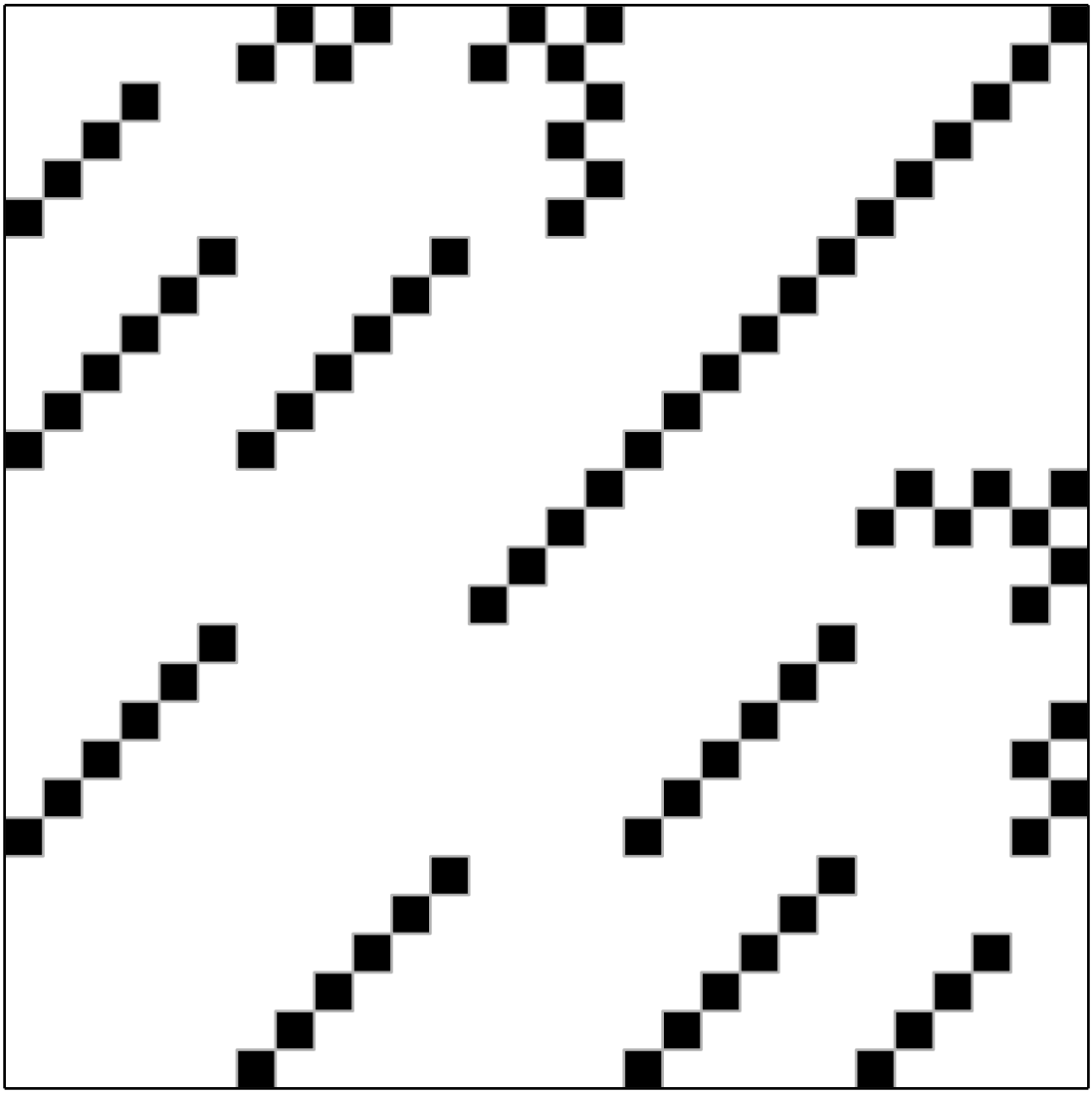
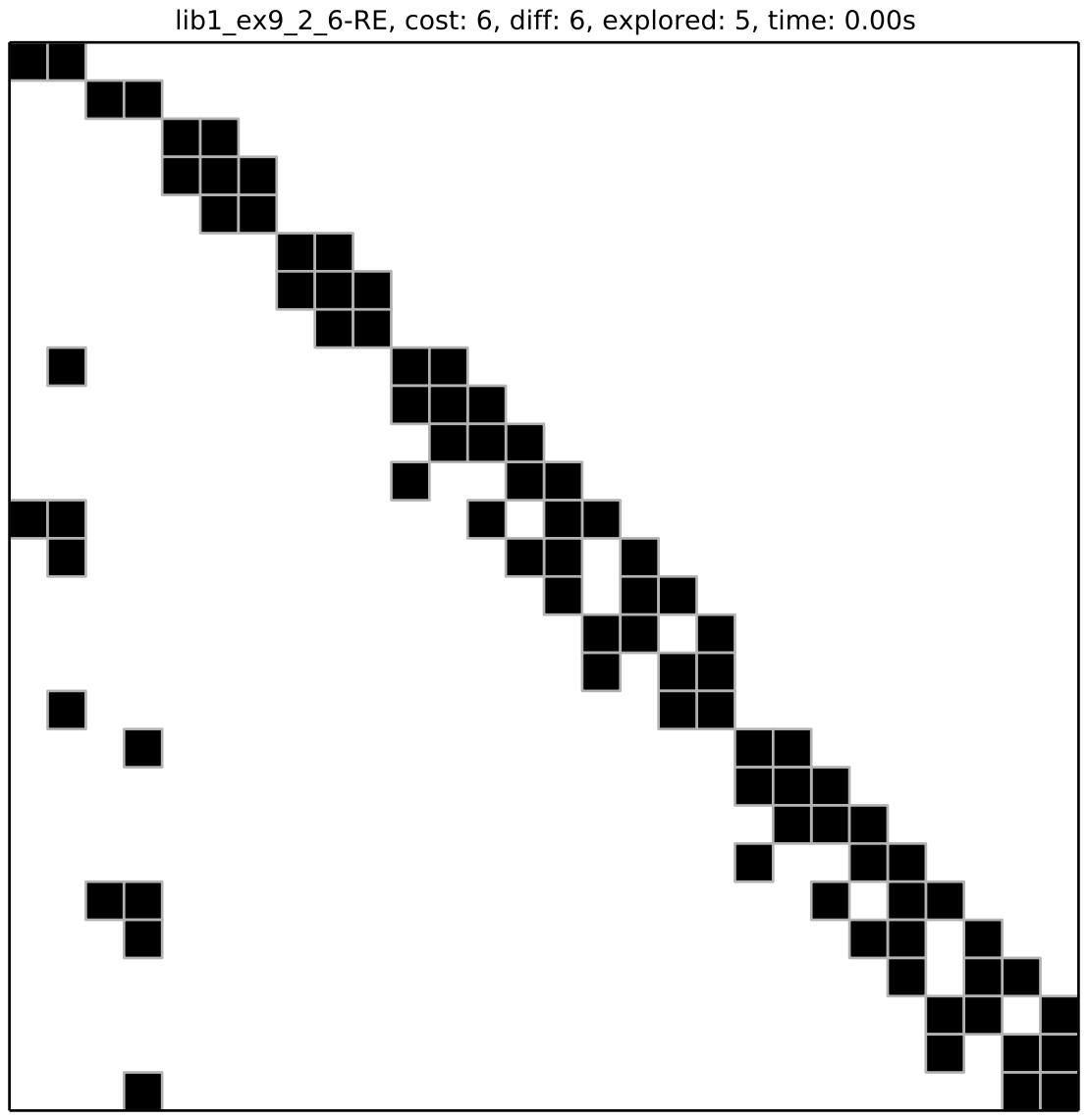
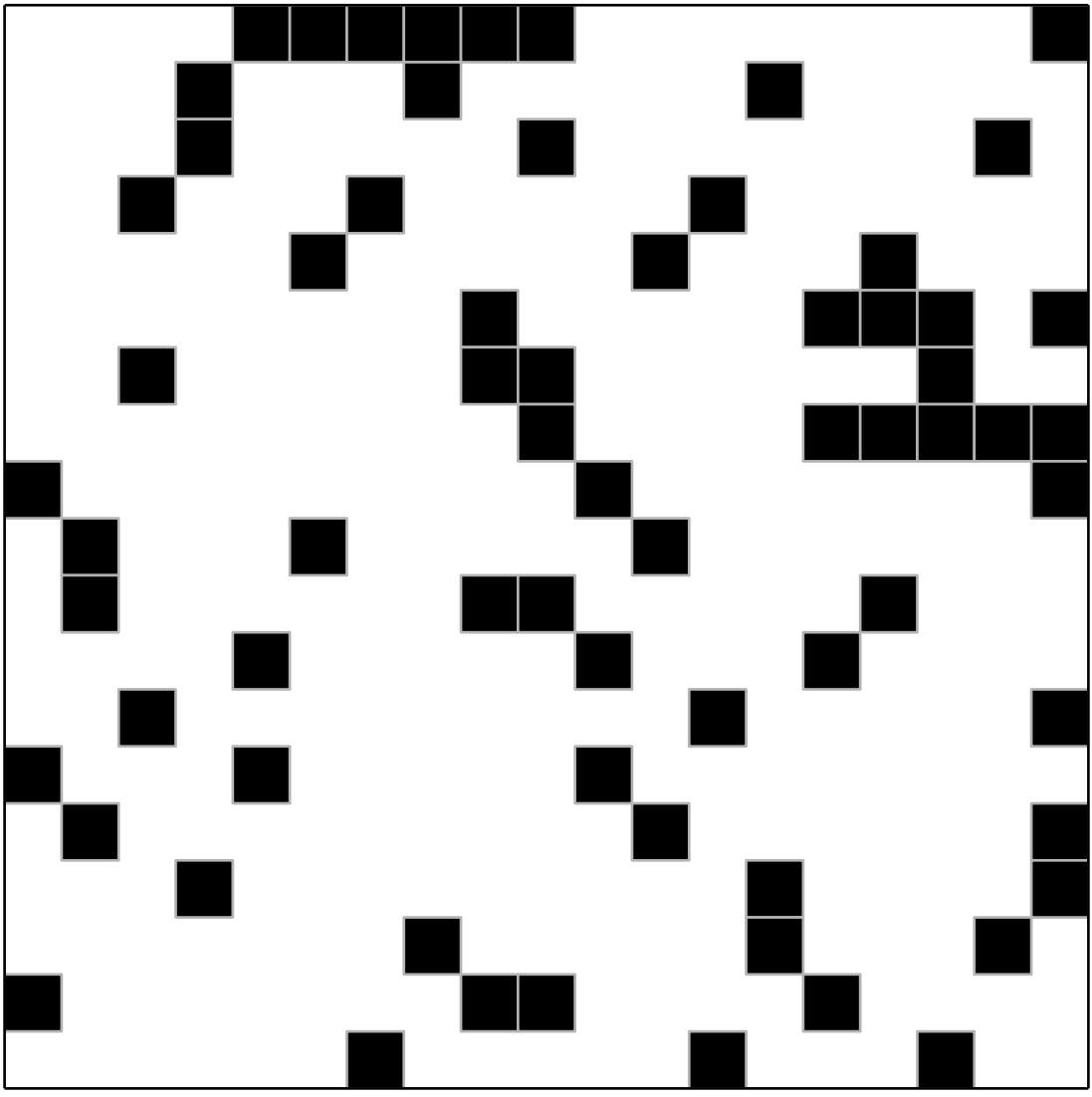
lib1_ex9_2_6-RE 28x28 (84) con: 12, var: 16




lib1_ex9_2_6-RE, cost: 6, diff: 6, explored: 5, time: 0.00s

lib1_ex9_2_7-00 19x19 (69) con: 9, var: 10



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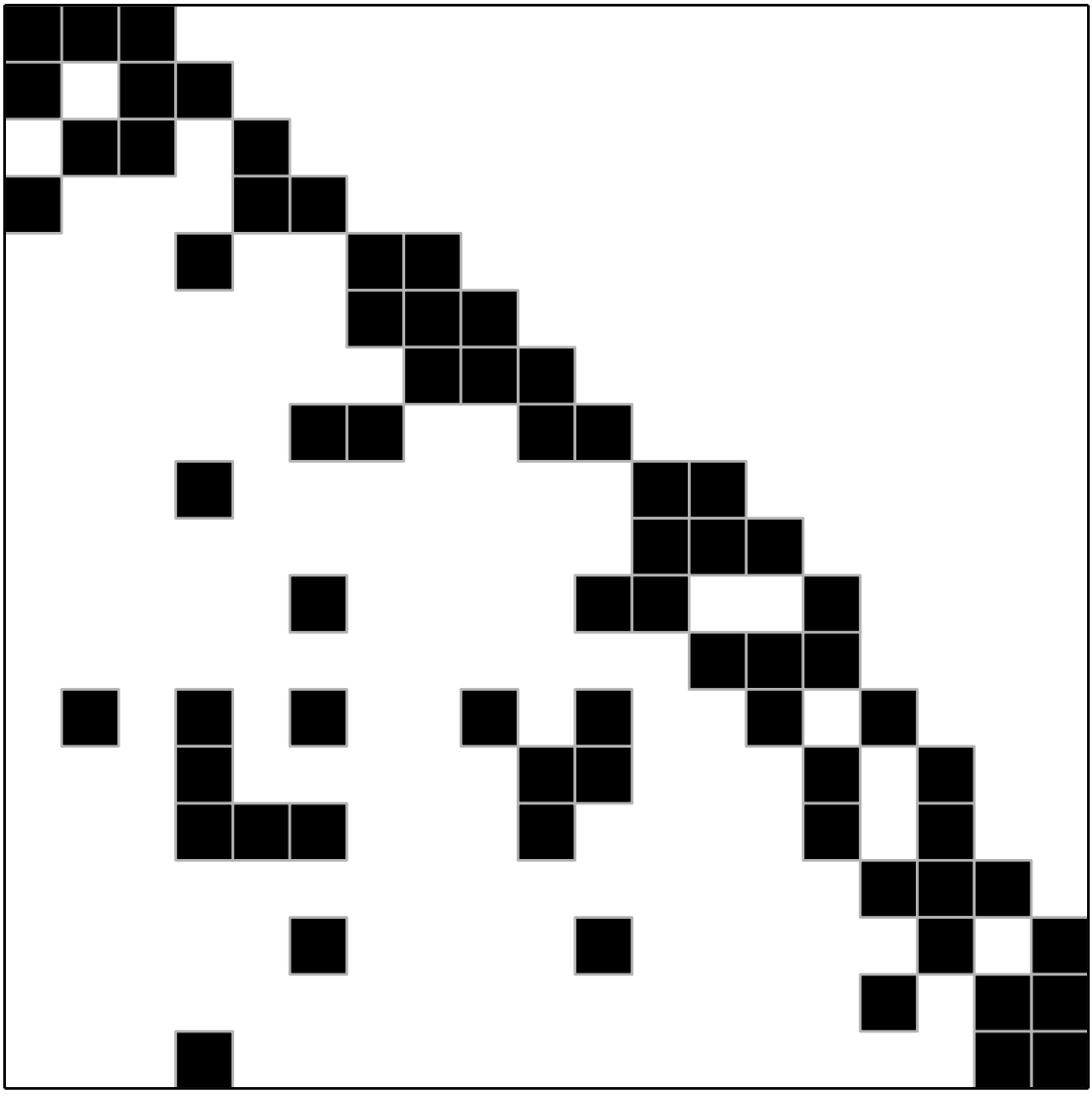
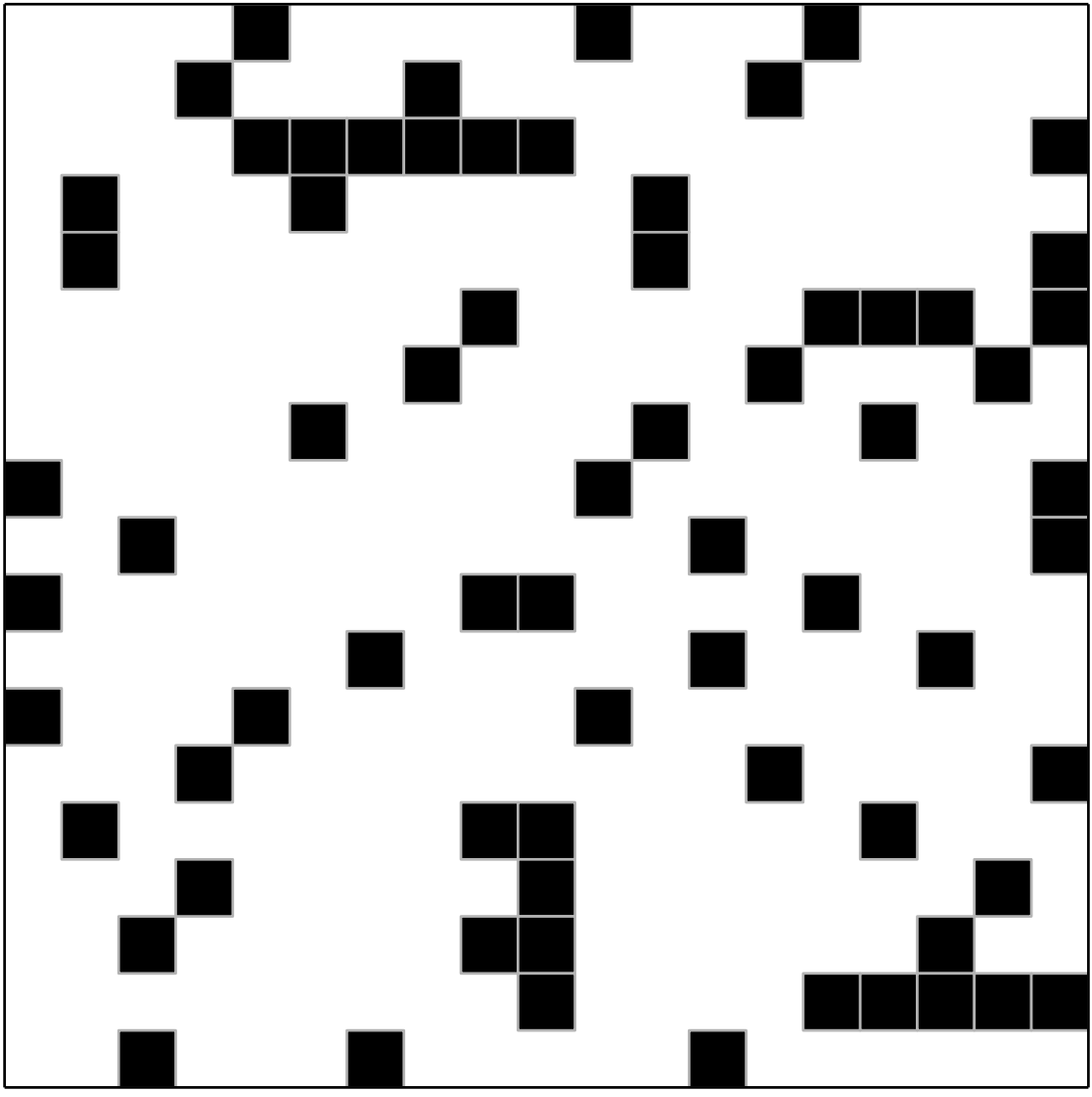
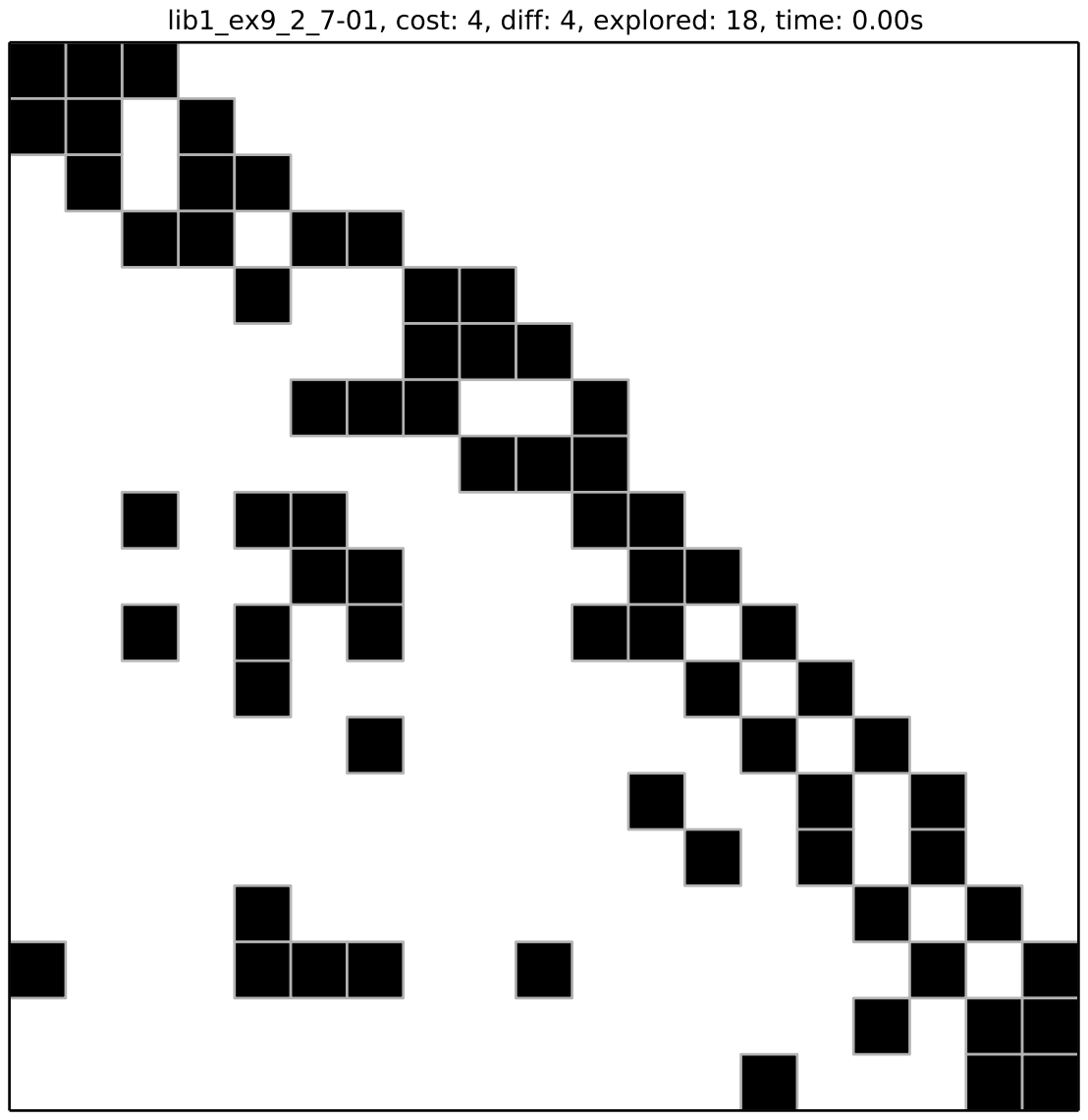


lib1_ex9_2_7-01 19x19 (69) con: 9, var: 10

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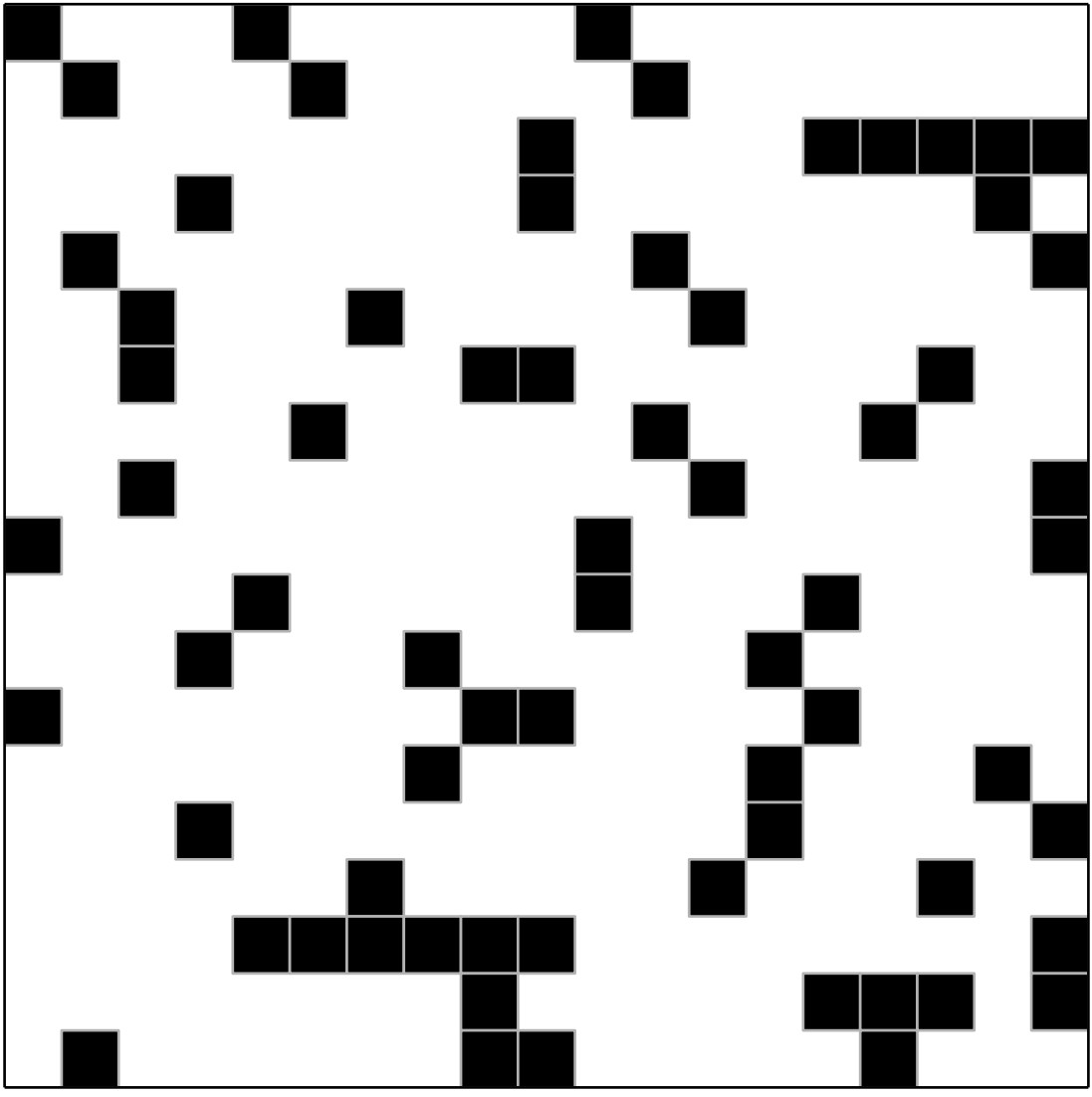
lib1_ex9_2_7-02 19x19 (69) con: 9, var: 10



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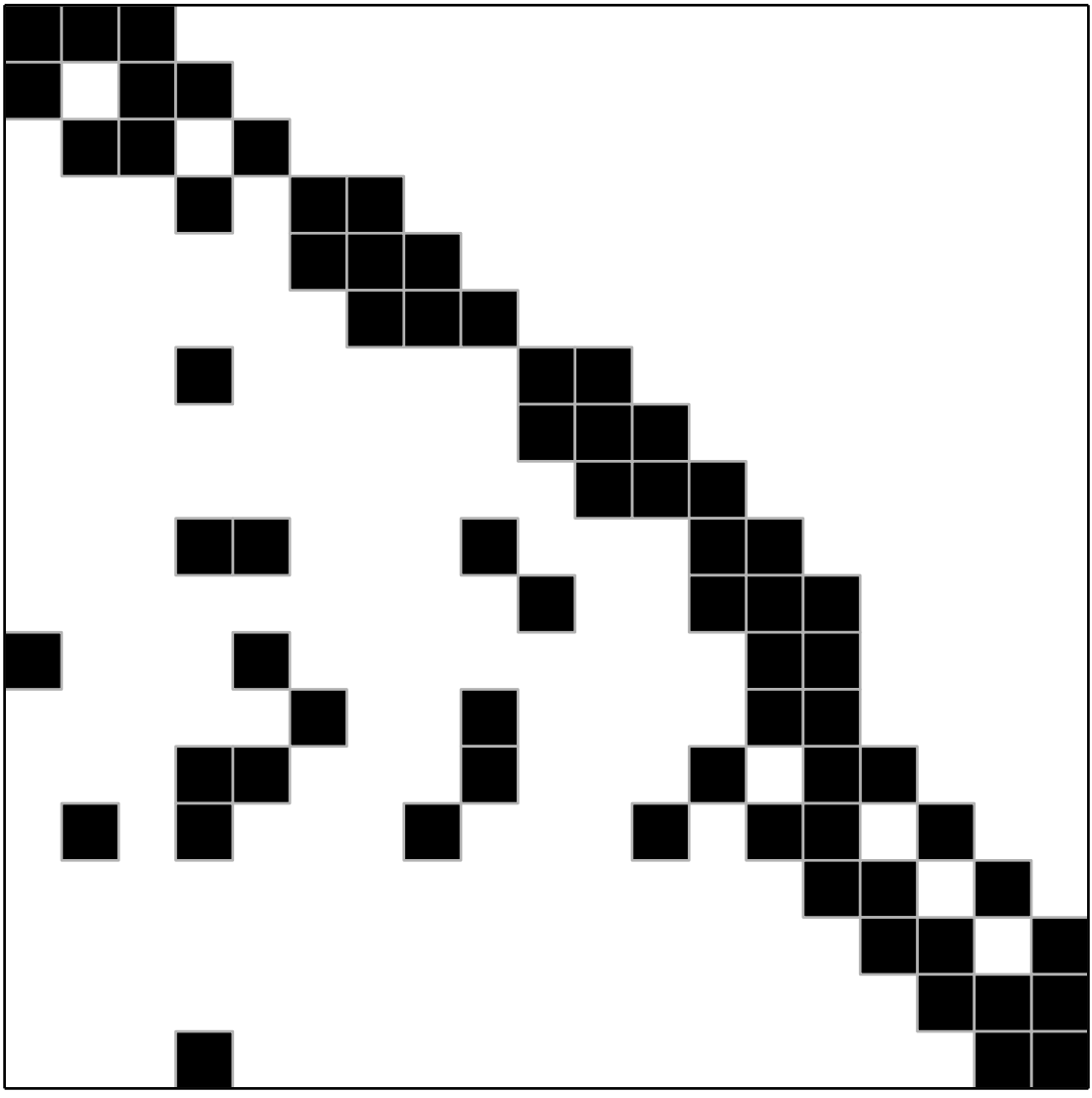
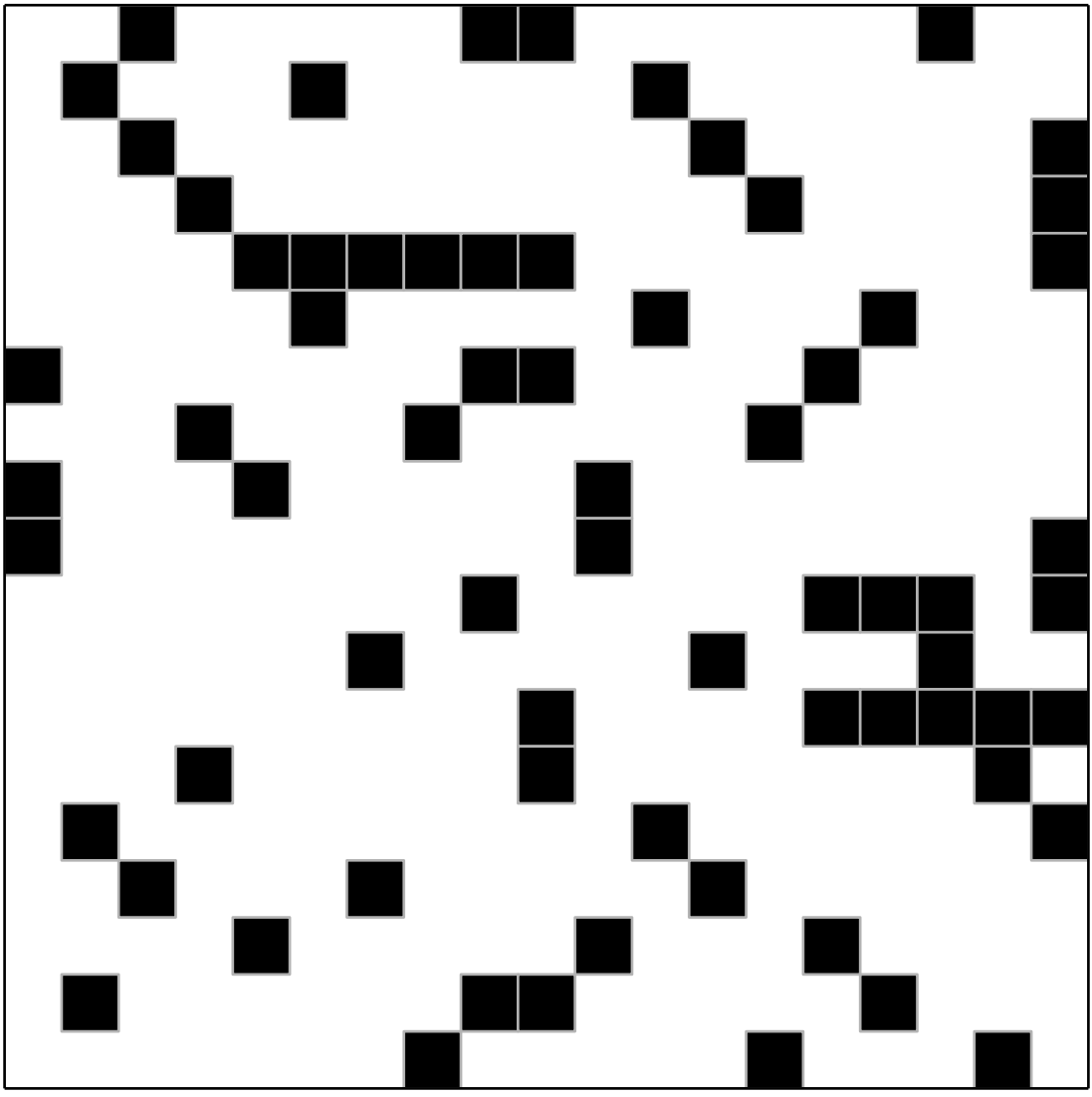
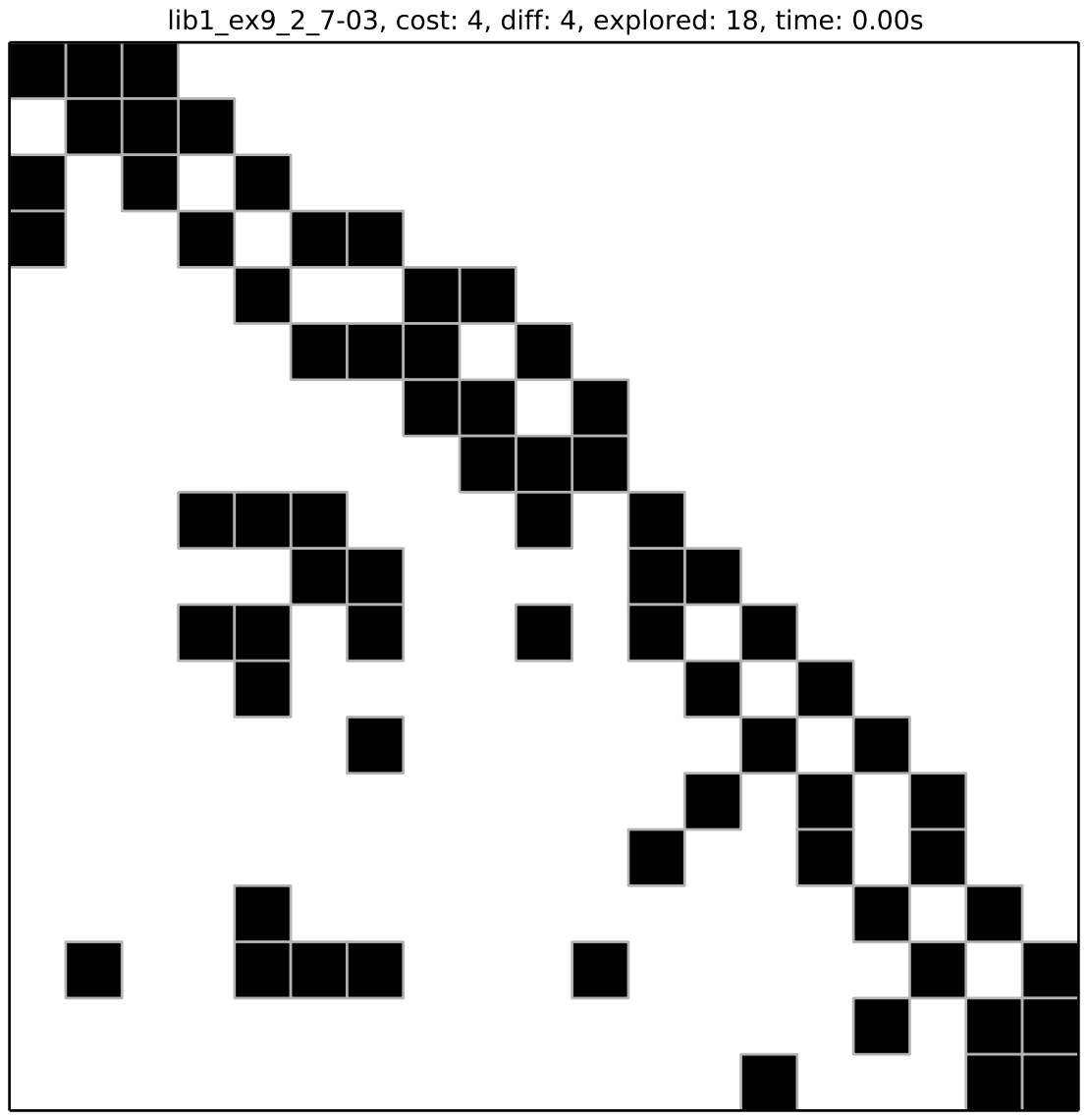


lib1_ex9_2_7-03 19x19 (69) con: 9, var: 10

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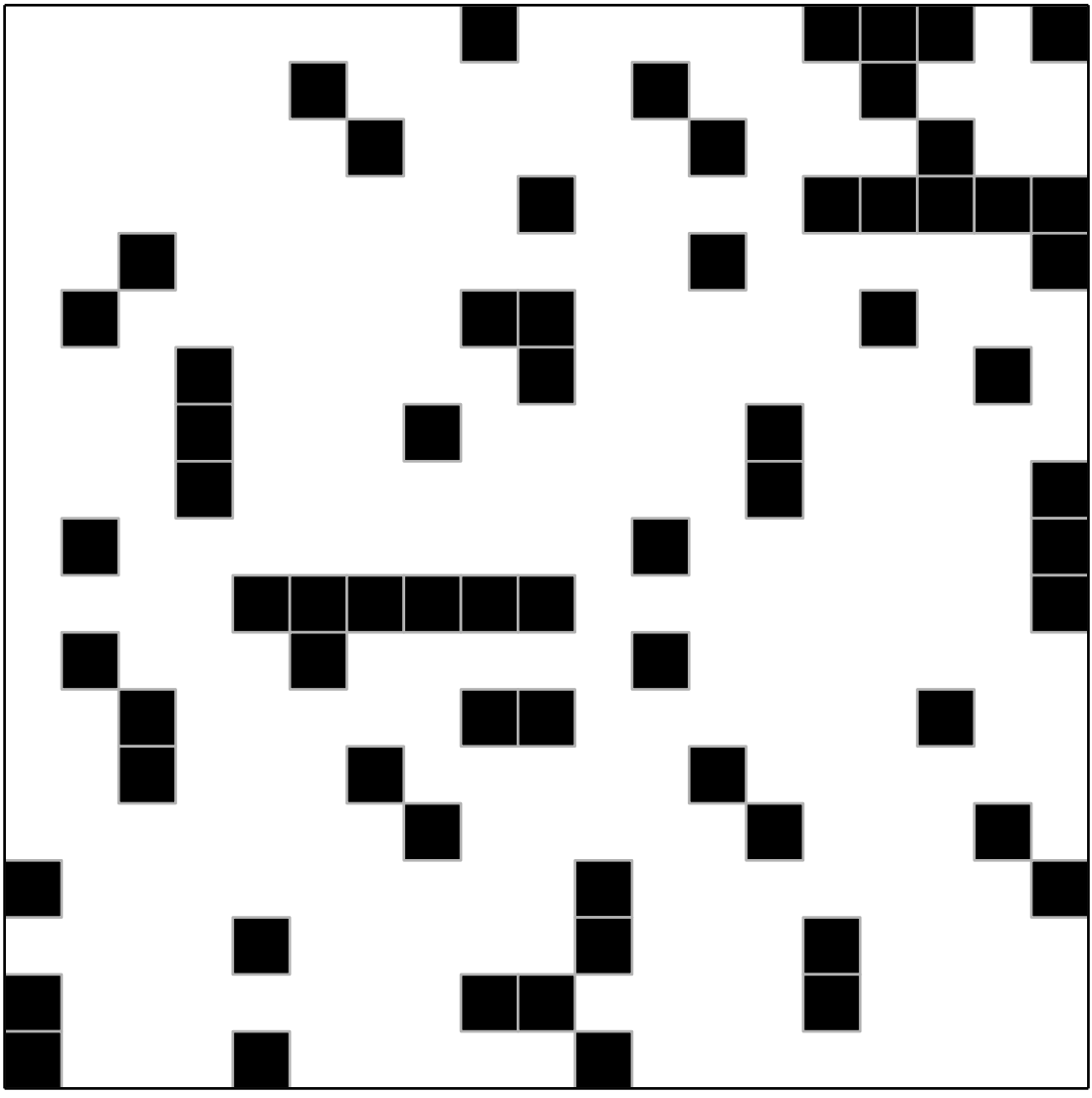
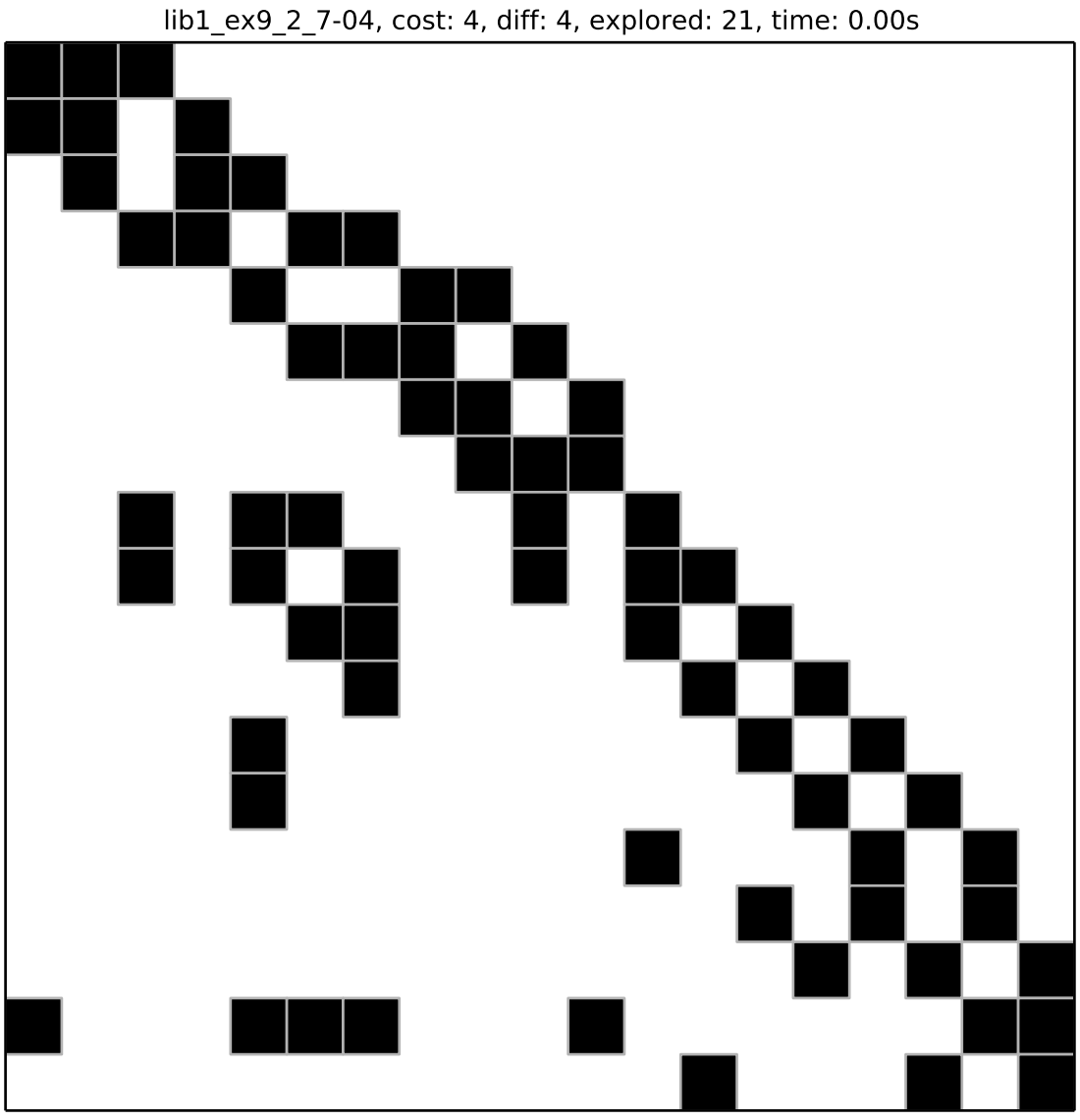
lib1_ex9_2_7-04 19x19 (69) con: 9, var: 10

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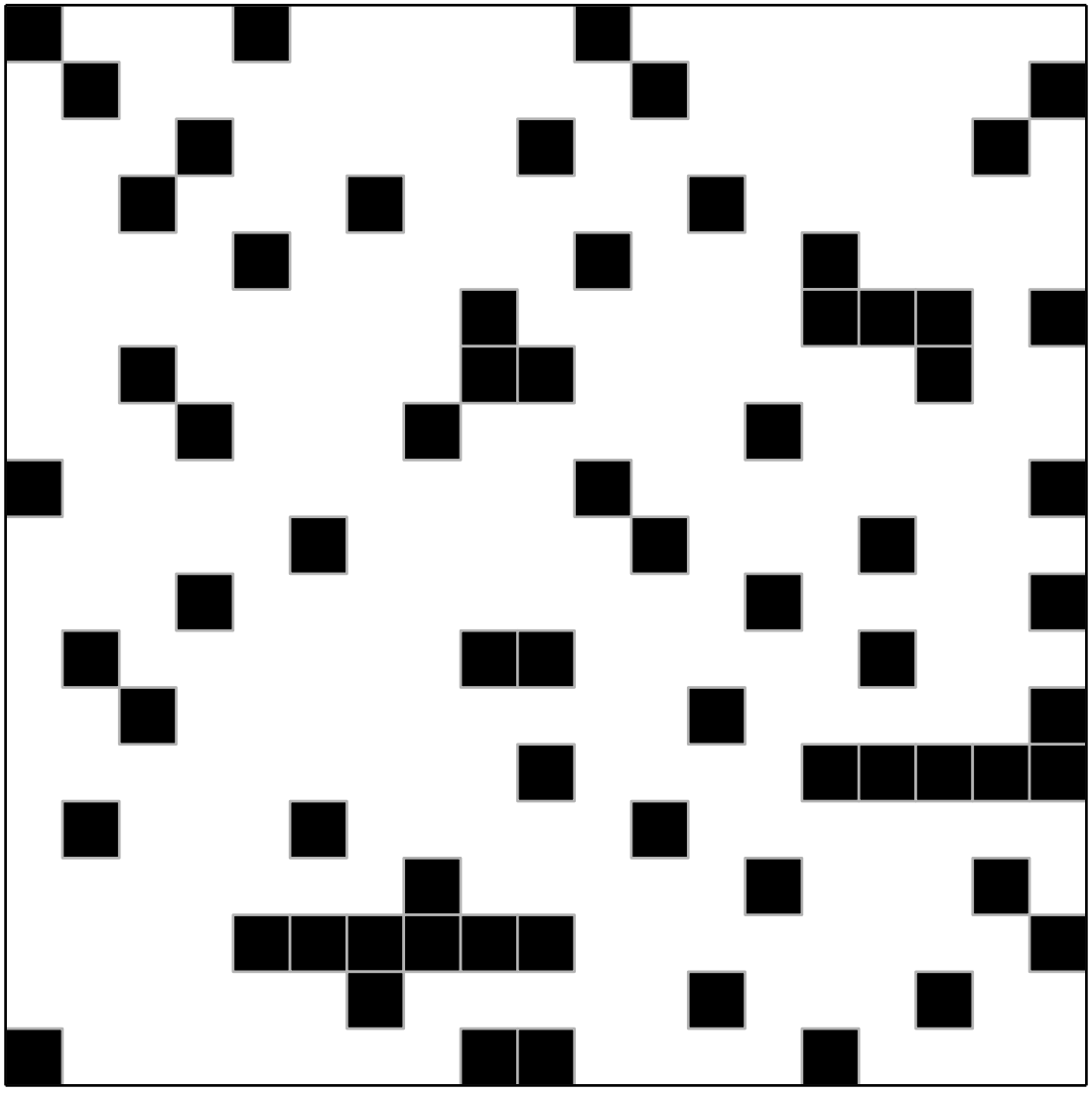
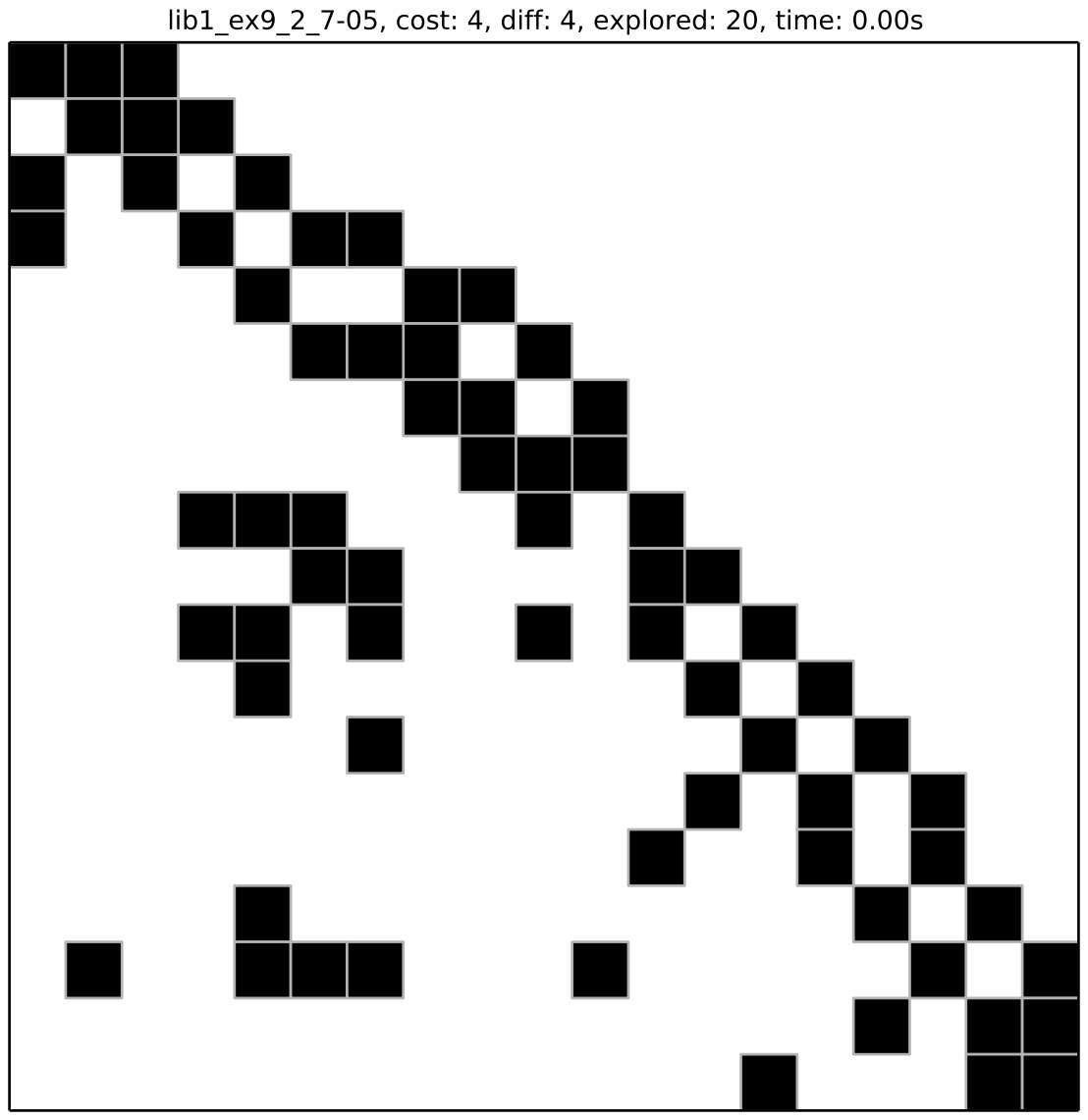
lib1_ex9_2_7-05 19x19 (69) con: 9, var: 10

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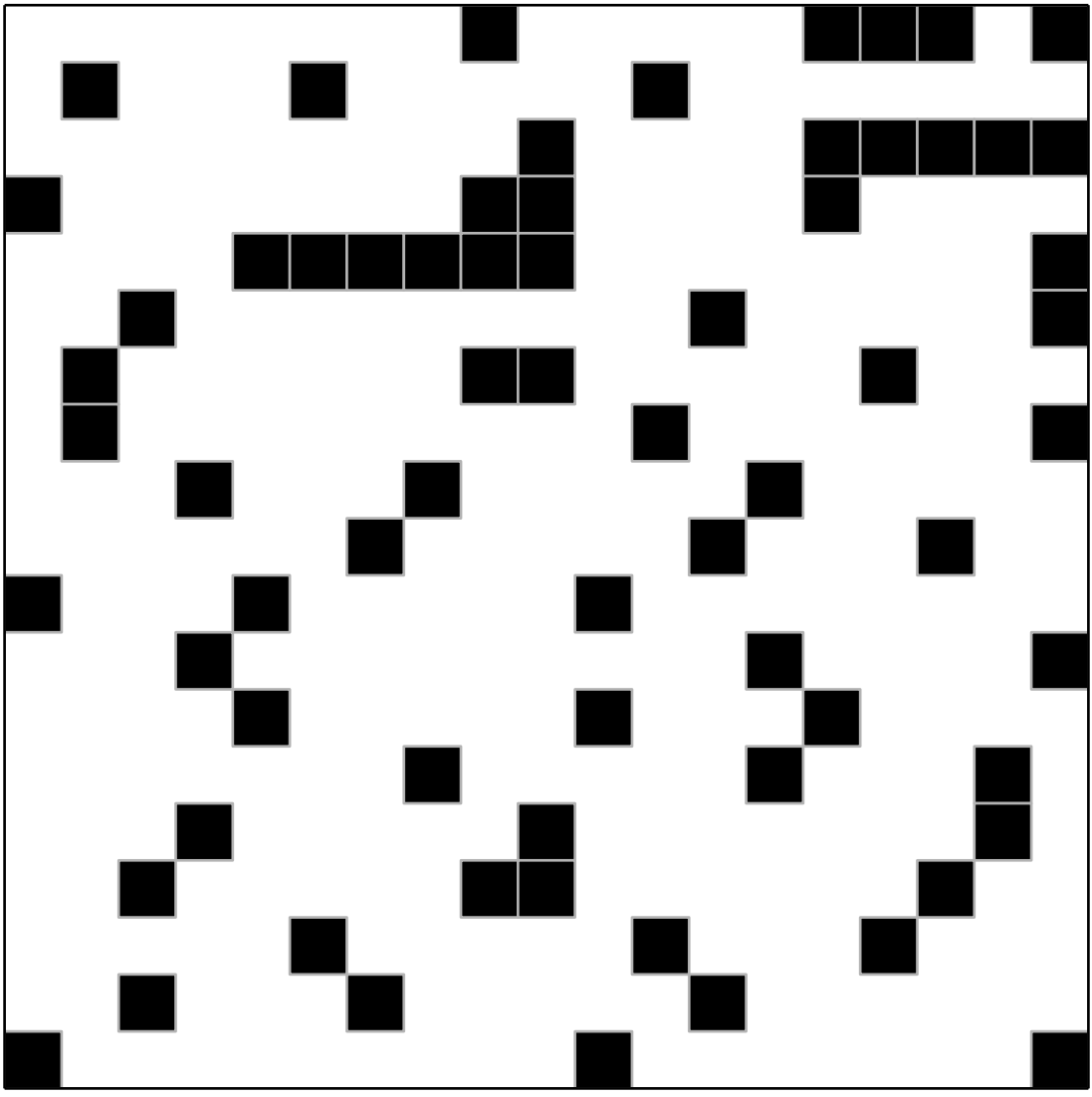
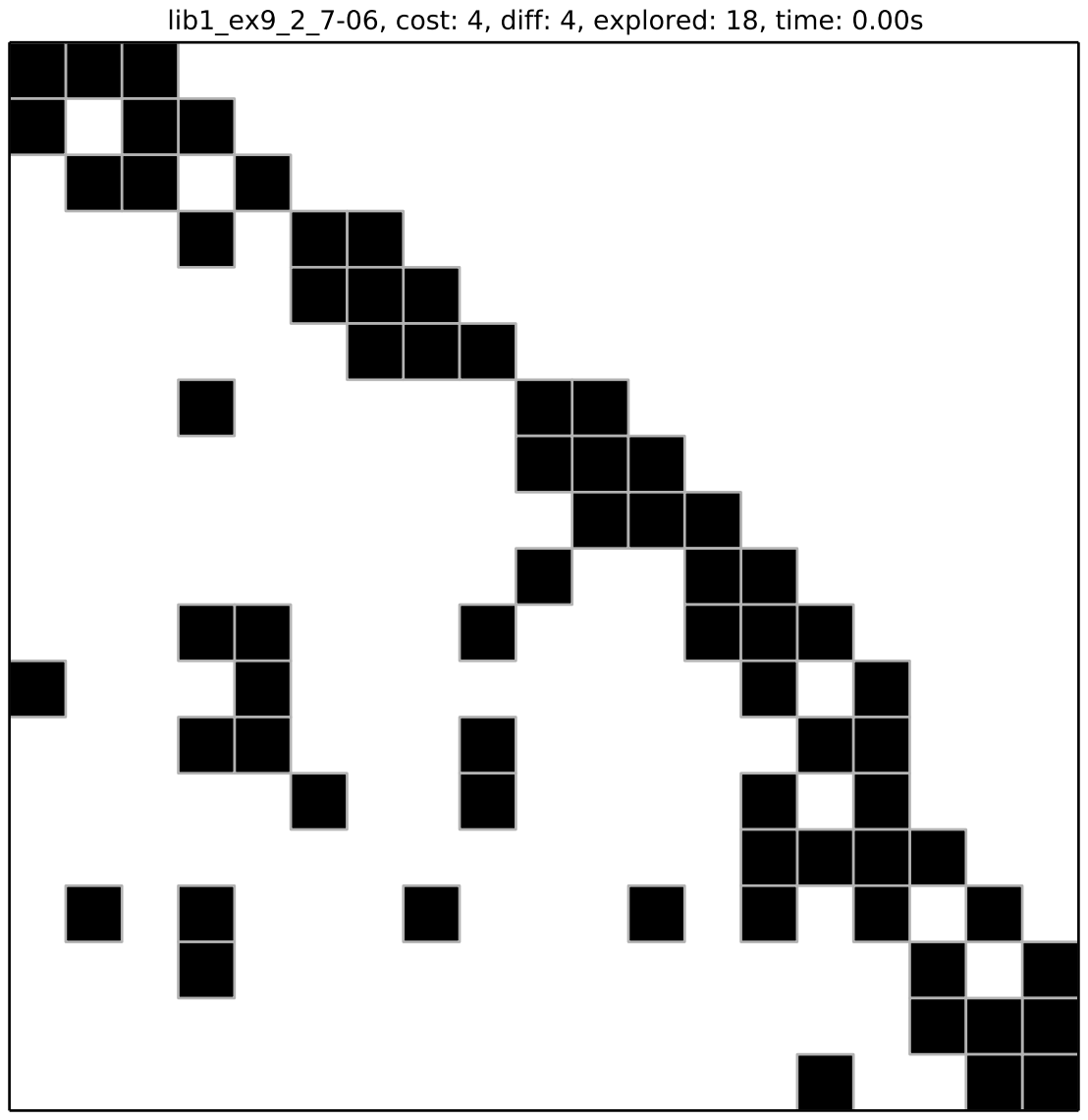
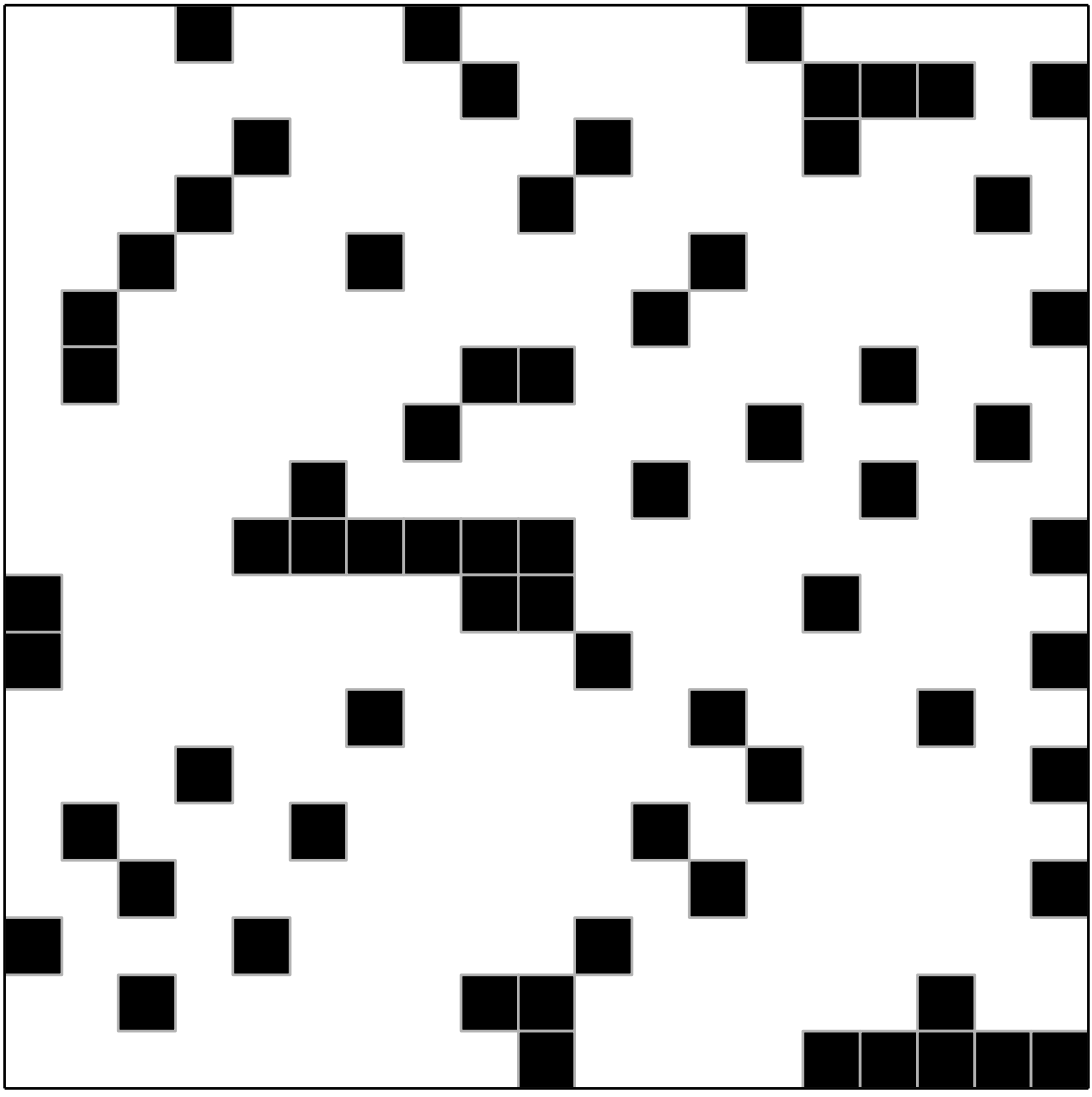
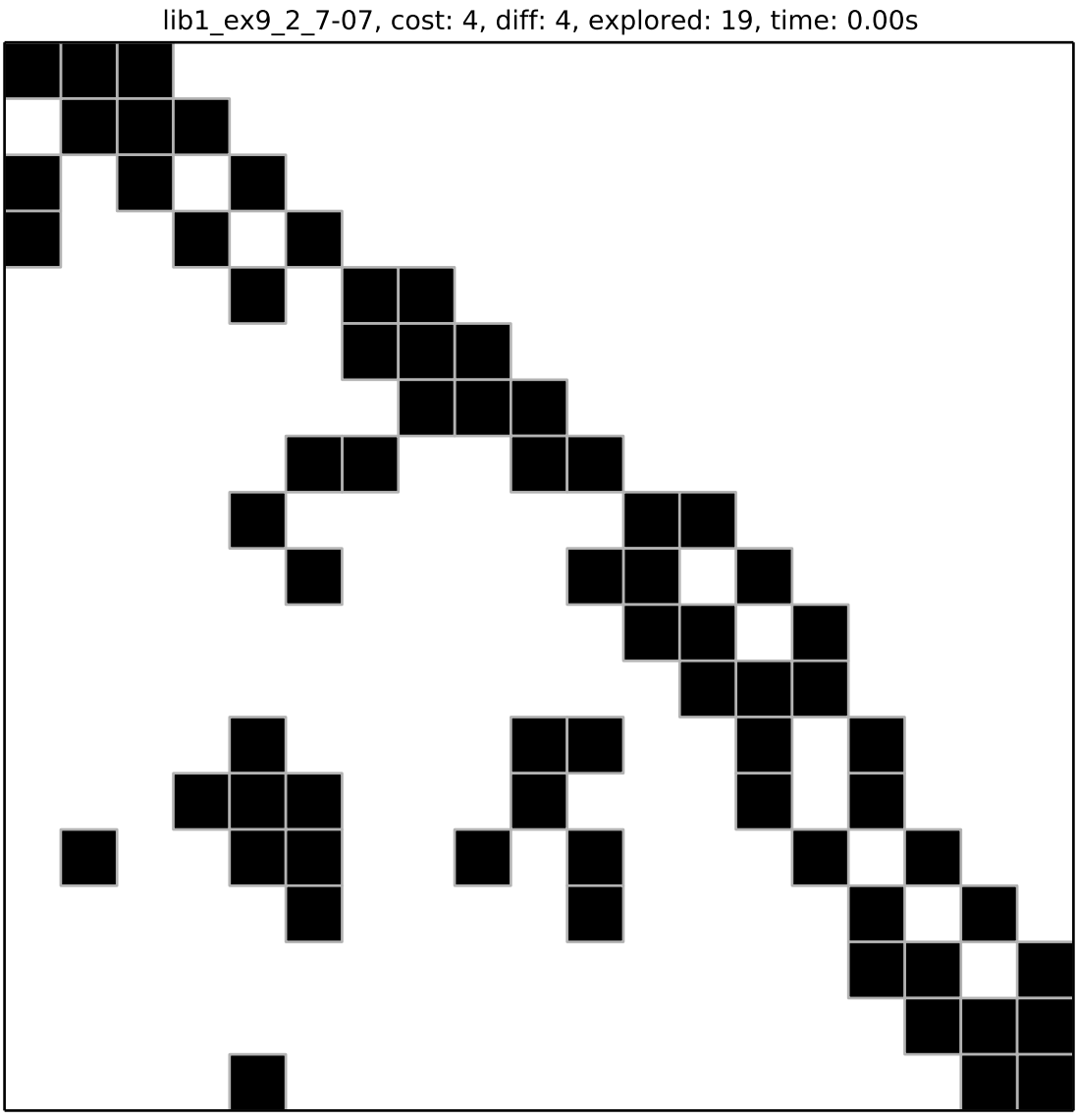
lib1_ex9_2_7-06 19x19 (69) con: 9, var: 10



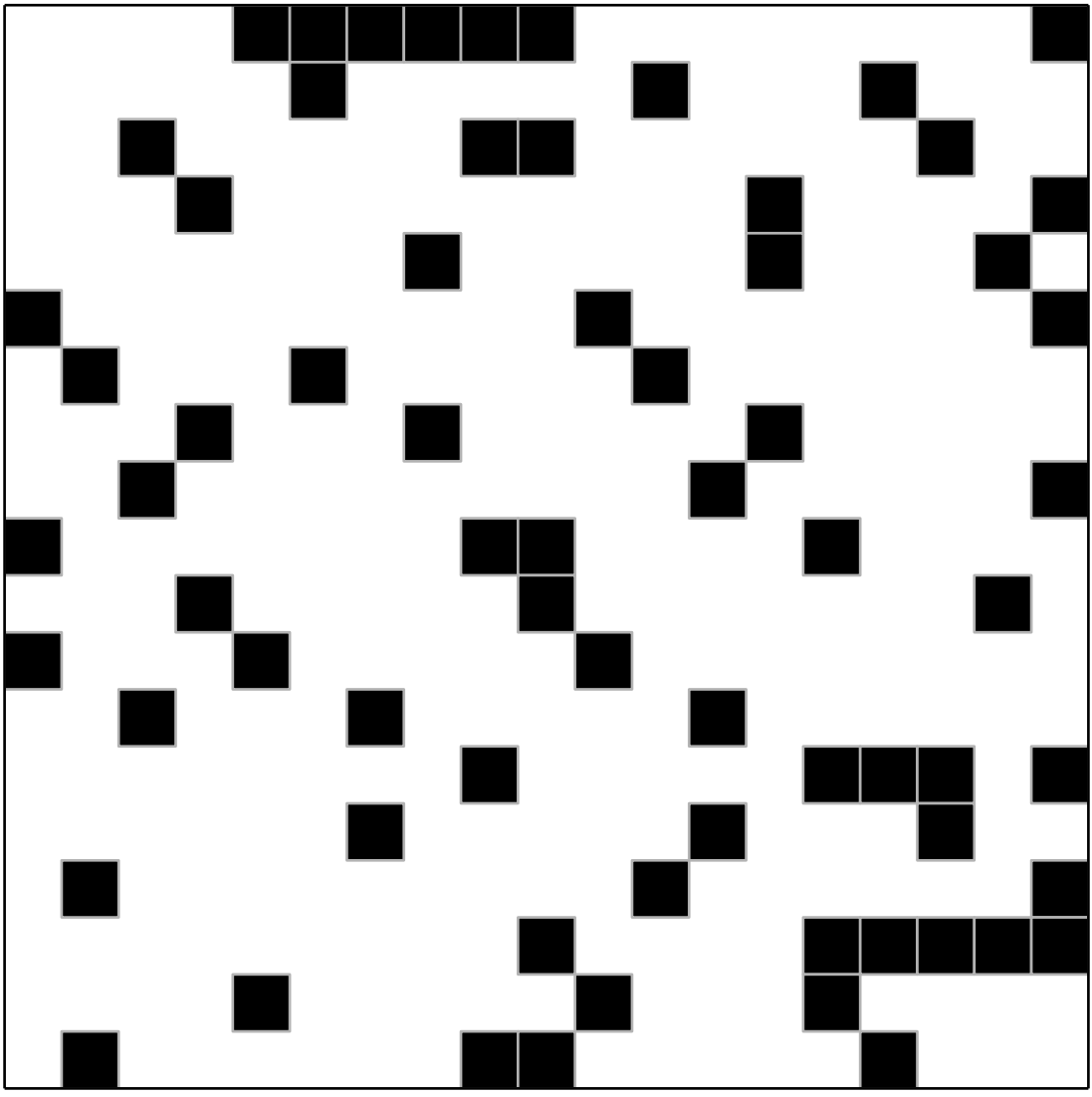

lib1_ex9_2_7-06, cost: 4, diff: 4, explored: 18, time: 0.00s

lib1_ex9_2_7-07 19x19 (69) con: 9, var: 10




lib1_ex9_2_7-07, cost: 4, diff: 4, explored: 19, time: 0.00s

lib1_ex9_2_7-08 19x19 (69) con: 9, var: 10



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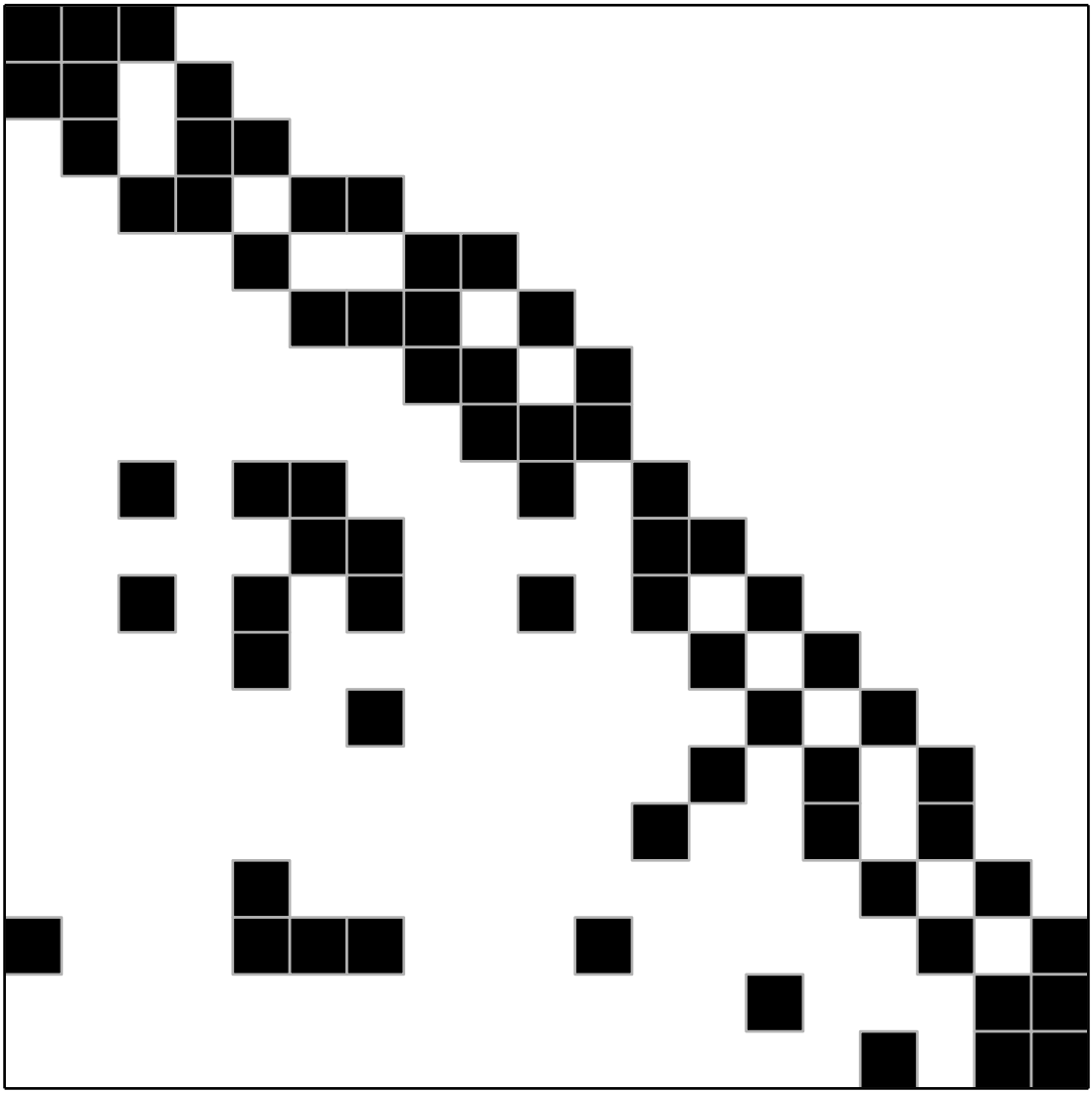
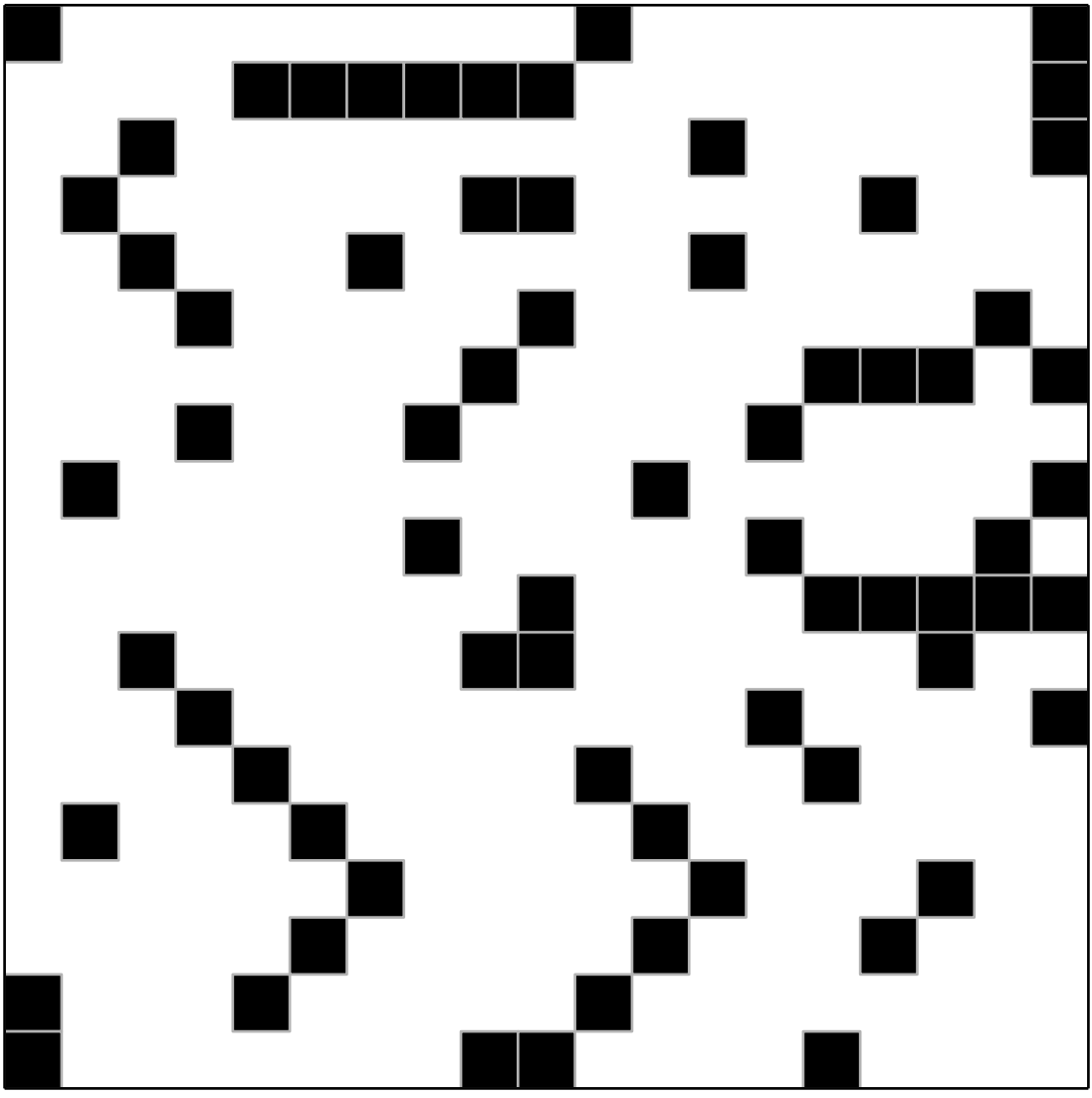
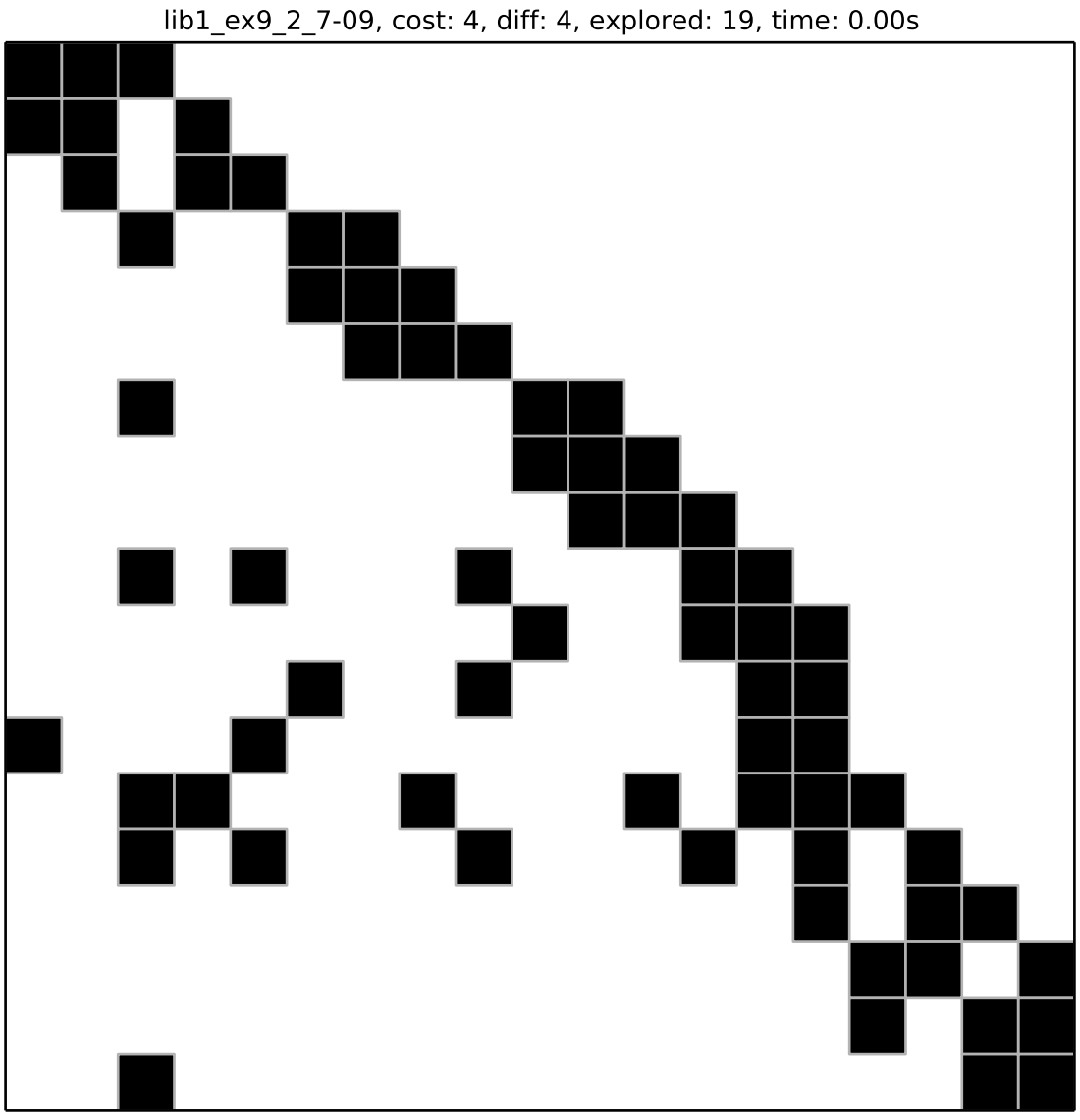
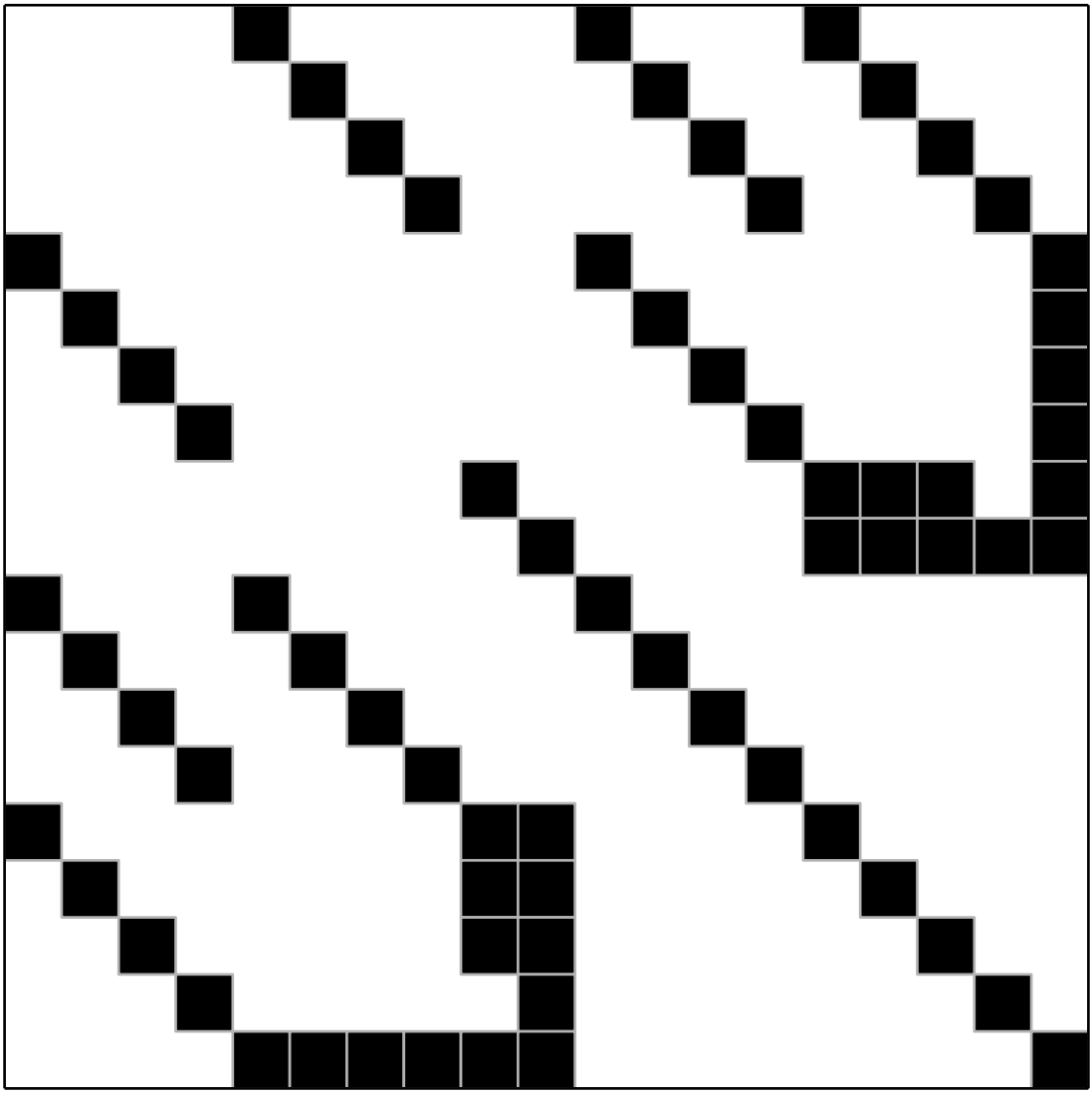


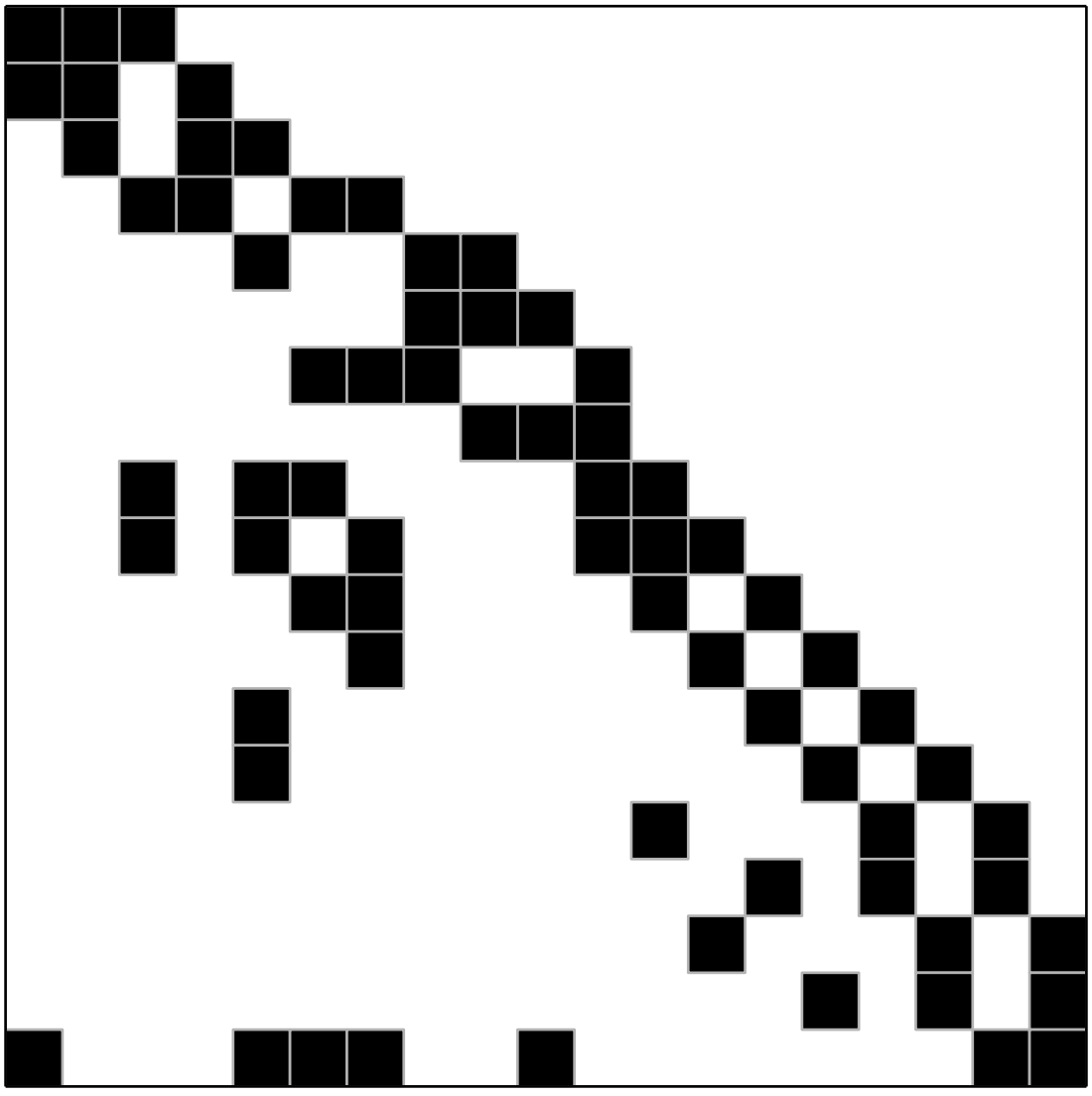
lib1_ex9_2_7-09 19x19 (69) con: 9, var: 10

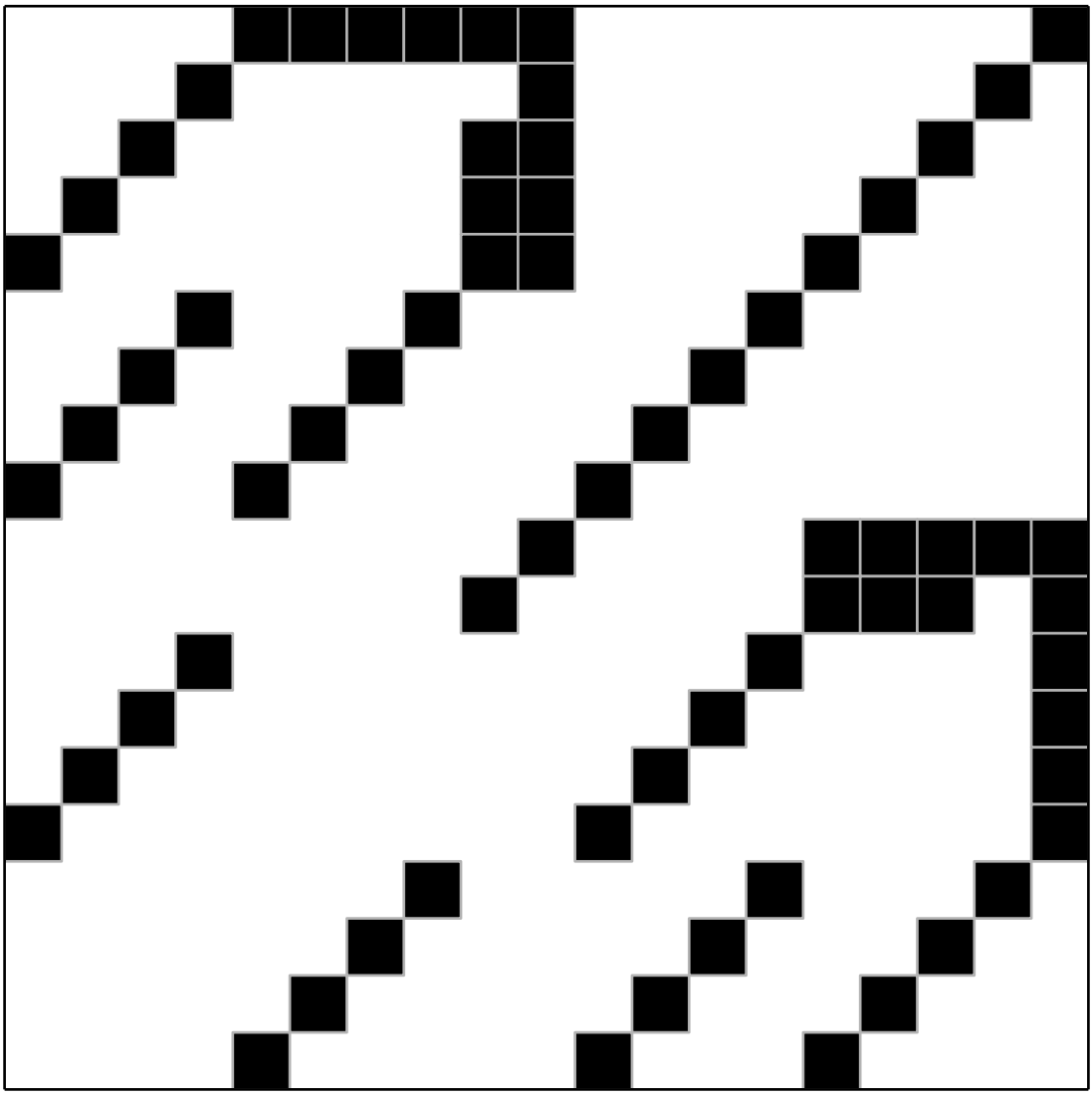


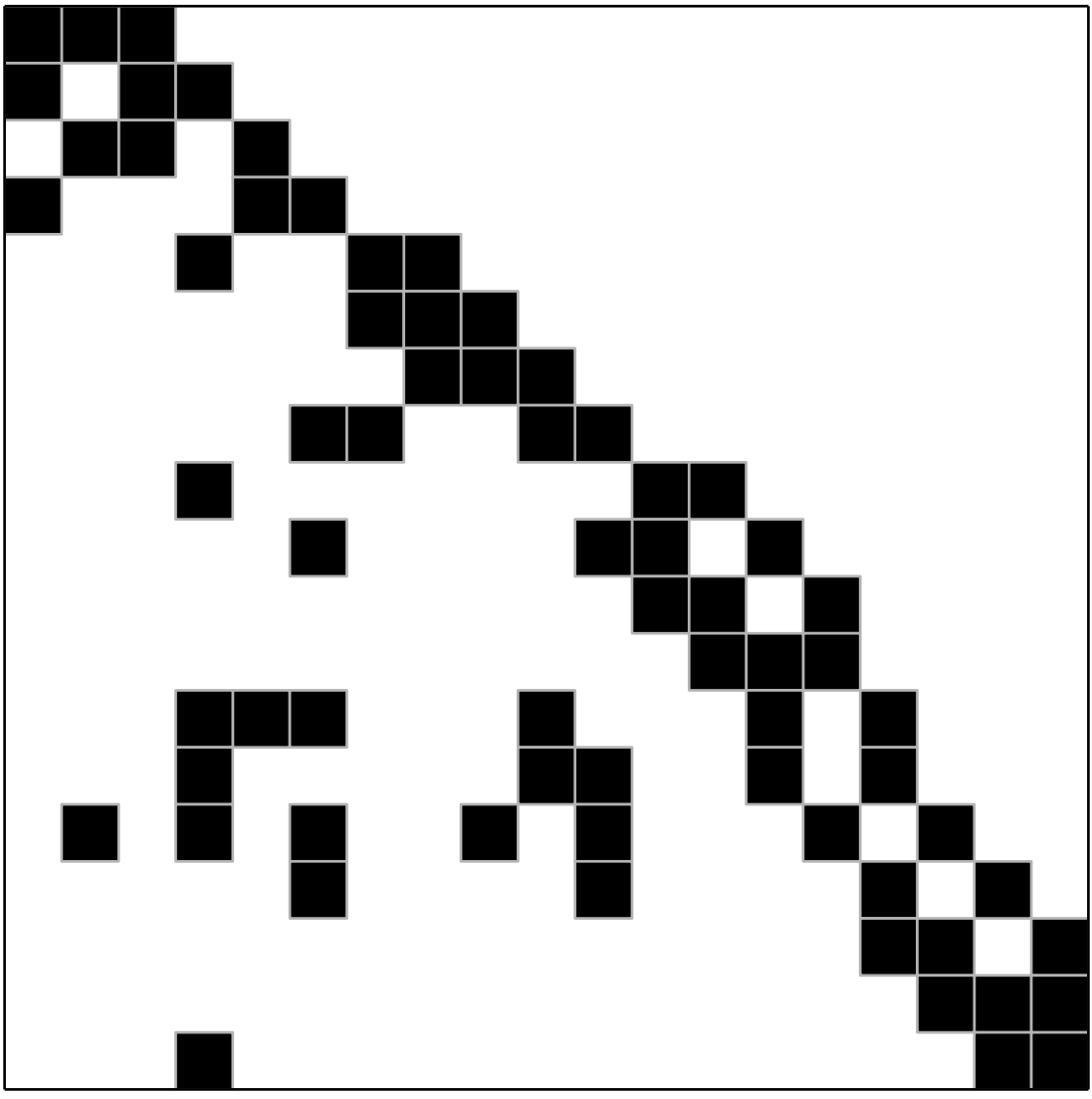

lib1_ex9_2_7-09, cost: 4, diff: 4, explored: 19, time: 0.00s

lib1_ex9_2_7-IN 19x19 (69) con: 9, var: 10




lib1_ex9_2_7-IN, cost: 4, diff: 4, explored: 20, time: 0.00s


lib1_ex9_2_7-RE 19x19 (69) con: 9, var: 10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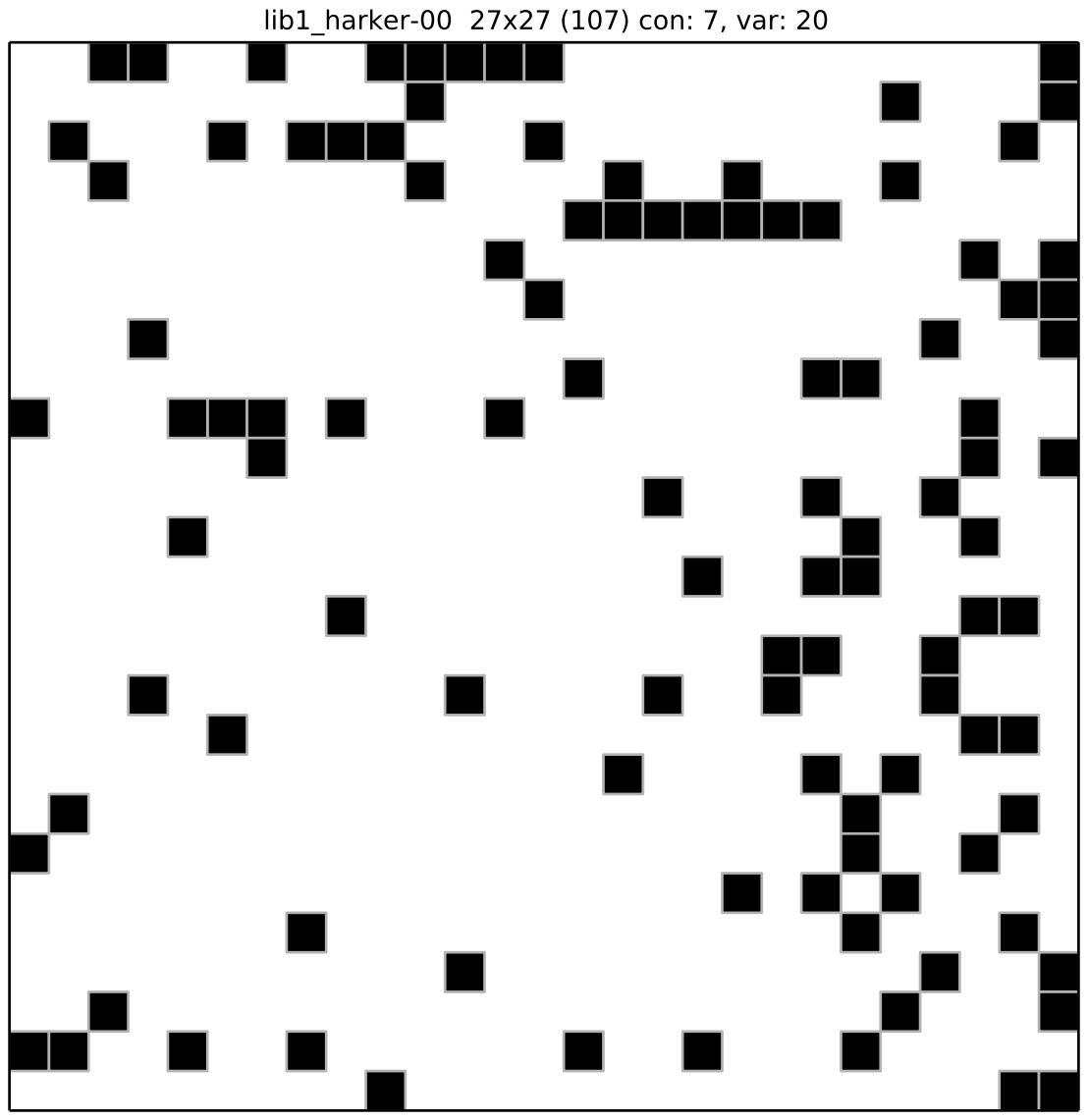
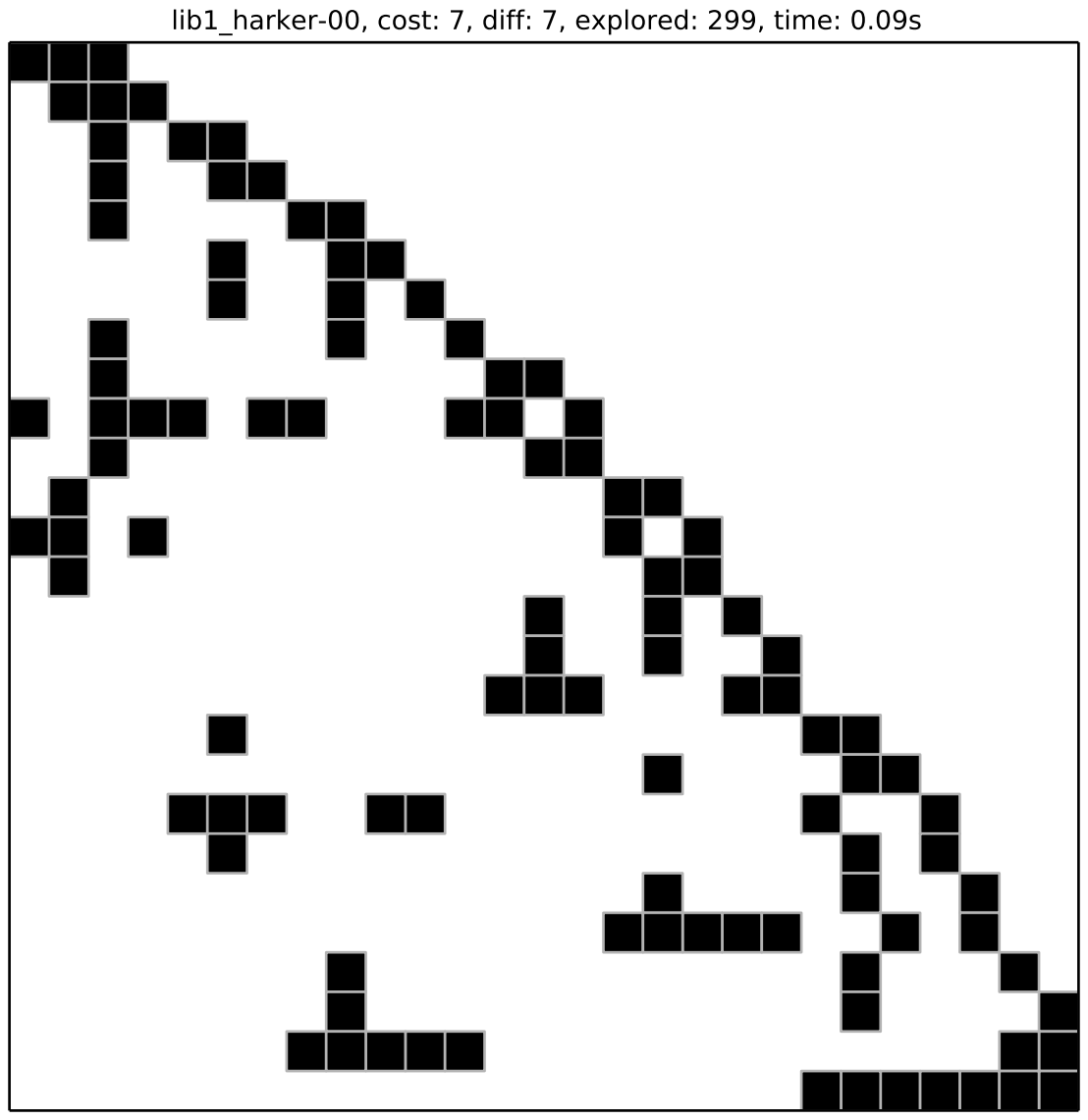
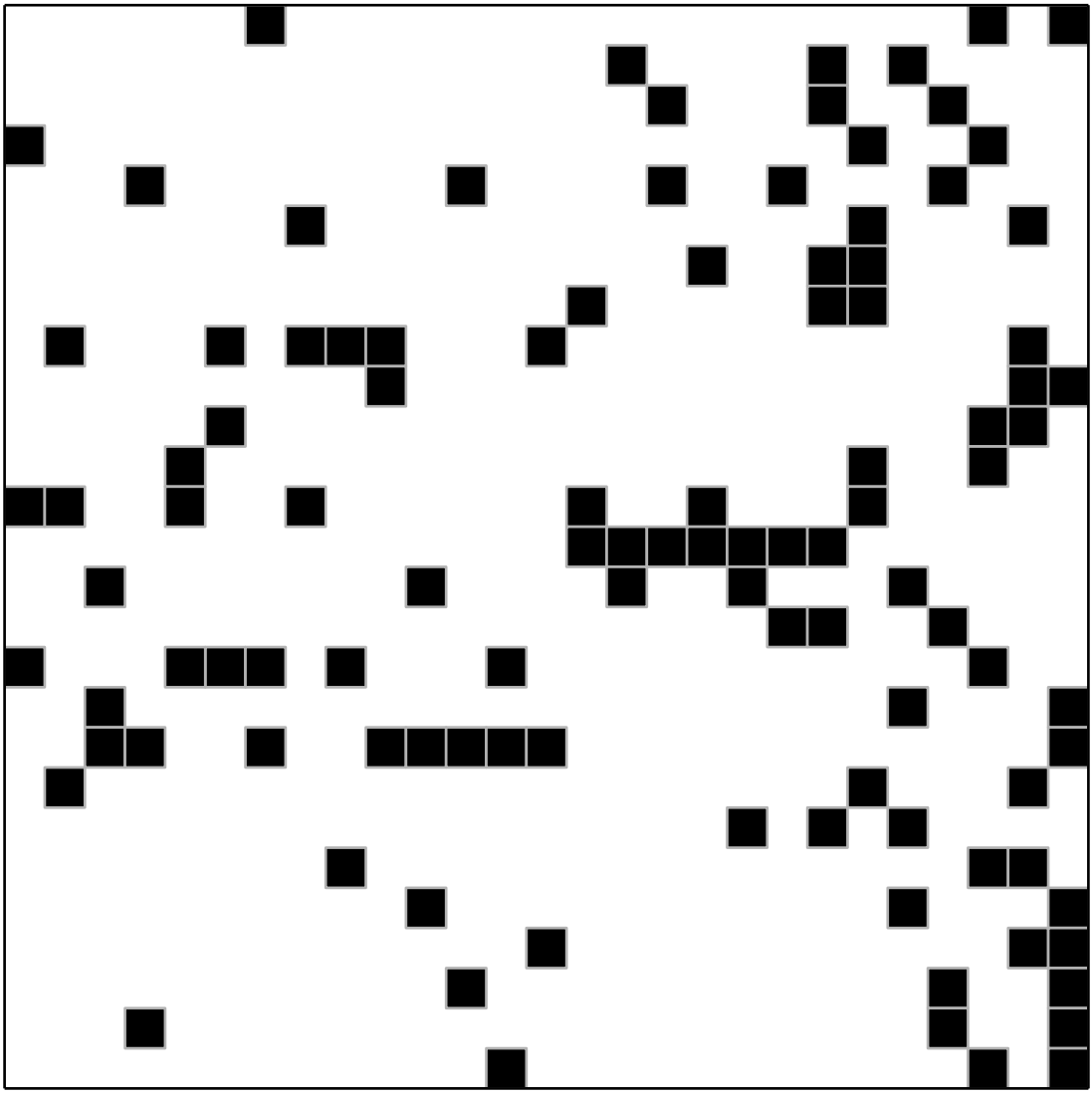
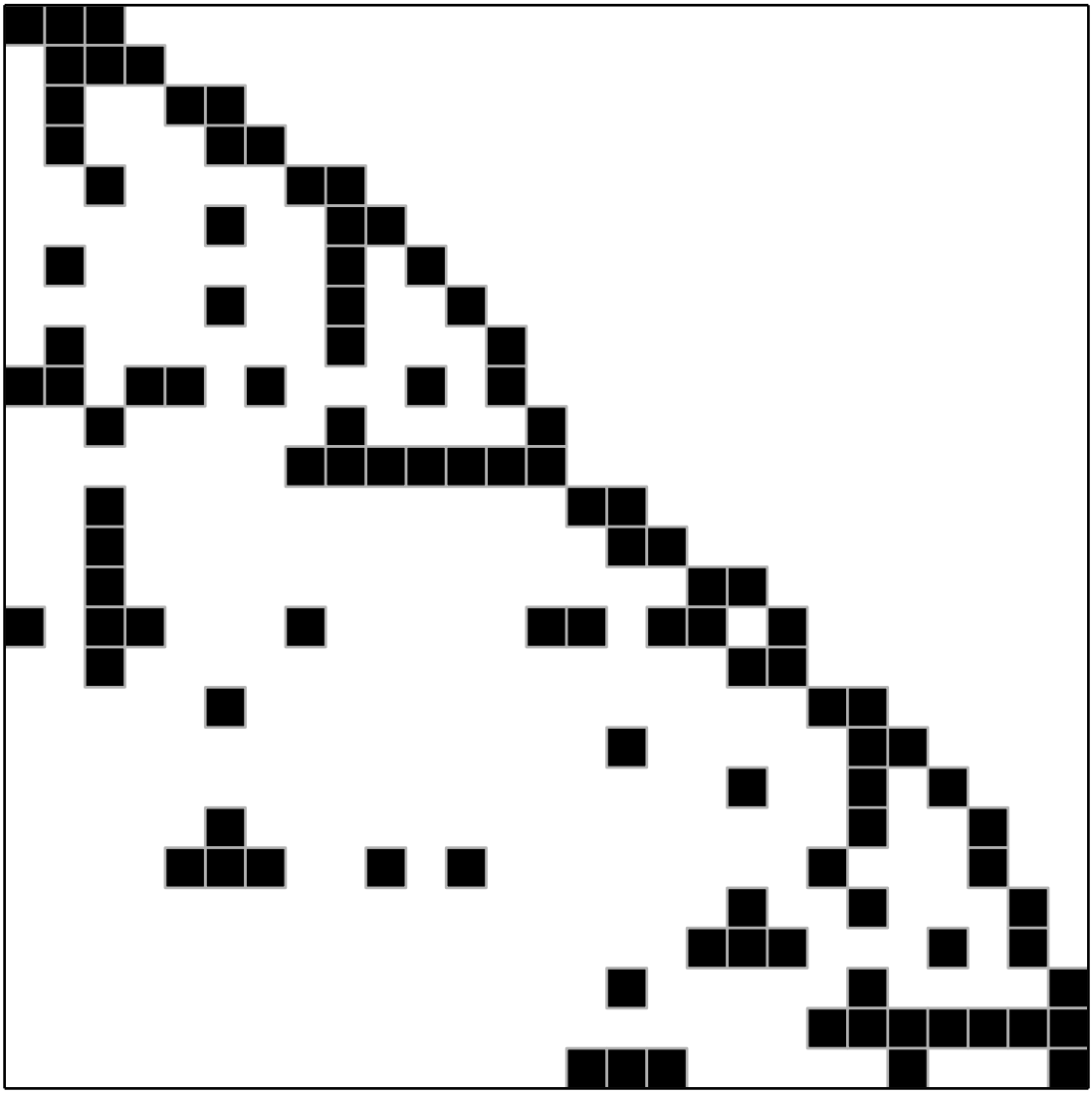

lib1_harker-00 27x27 (107) con: 7, var: 20


lib1_harker-00, cost: 7, diff: 7, explored: 299, time: 0.09s

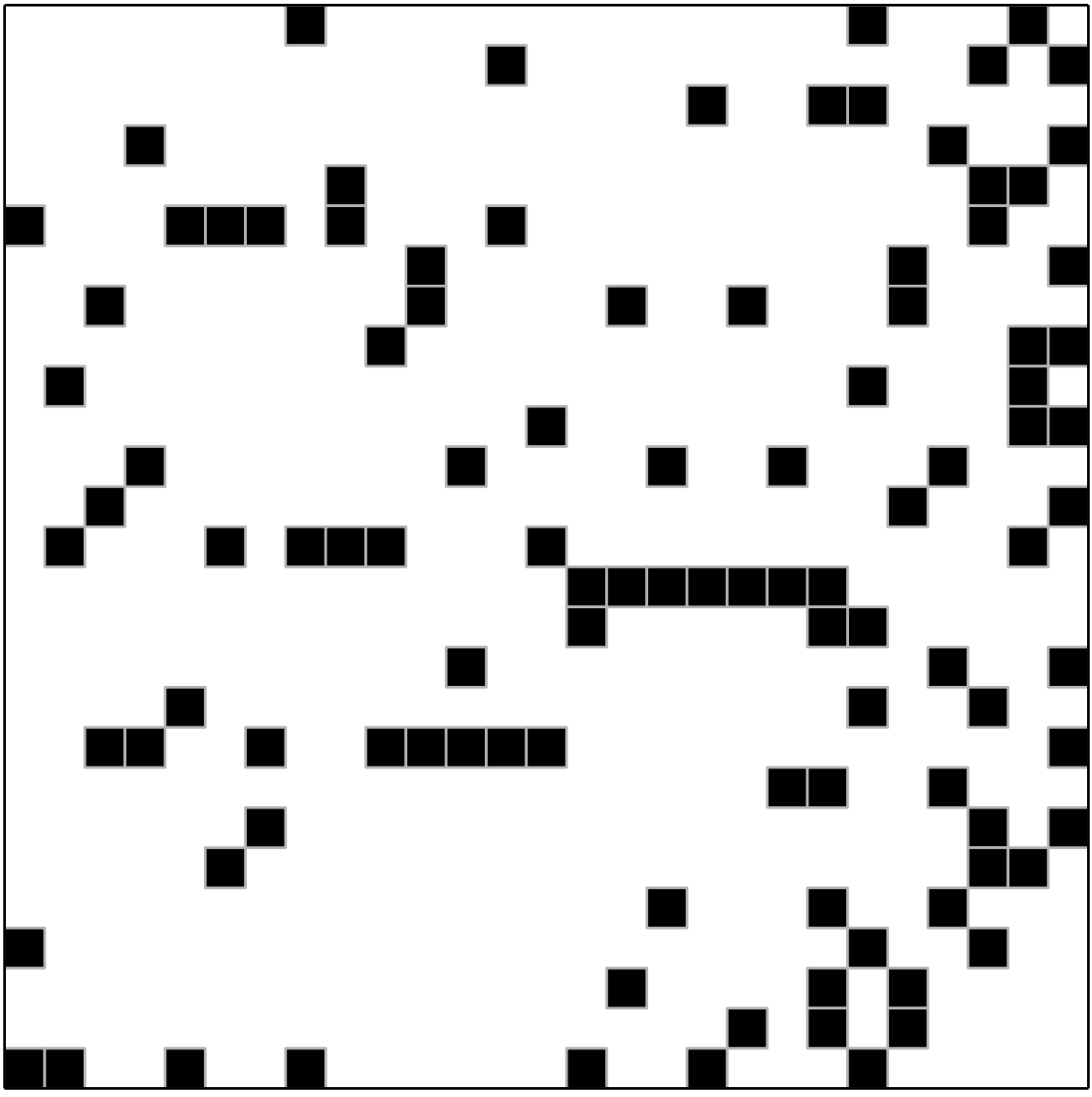
lib1_harker-01 27x27 (107) con: 7, var: 20

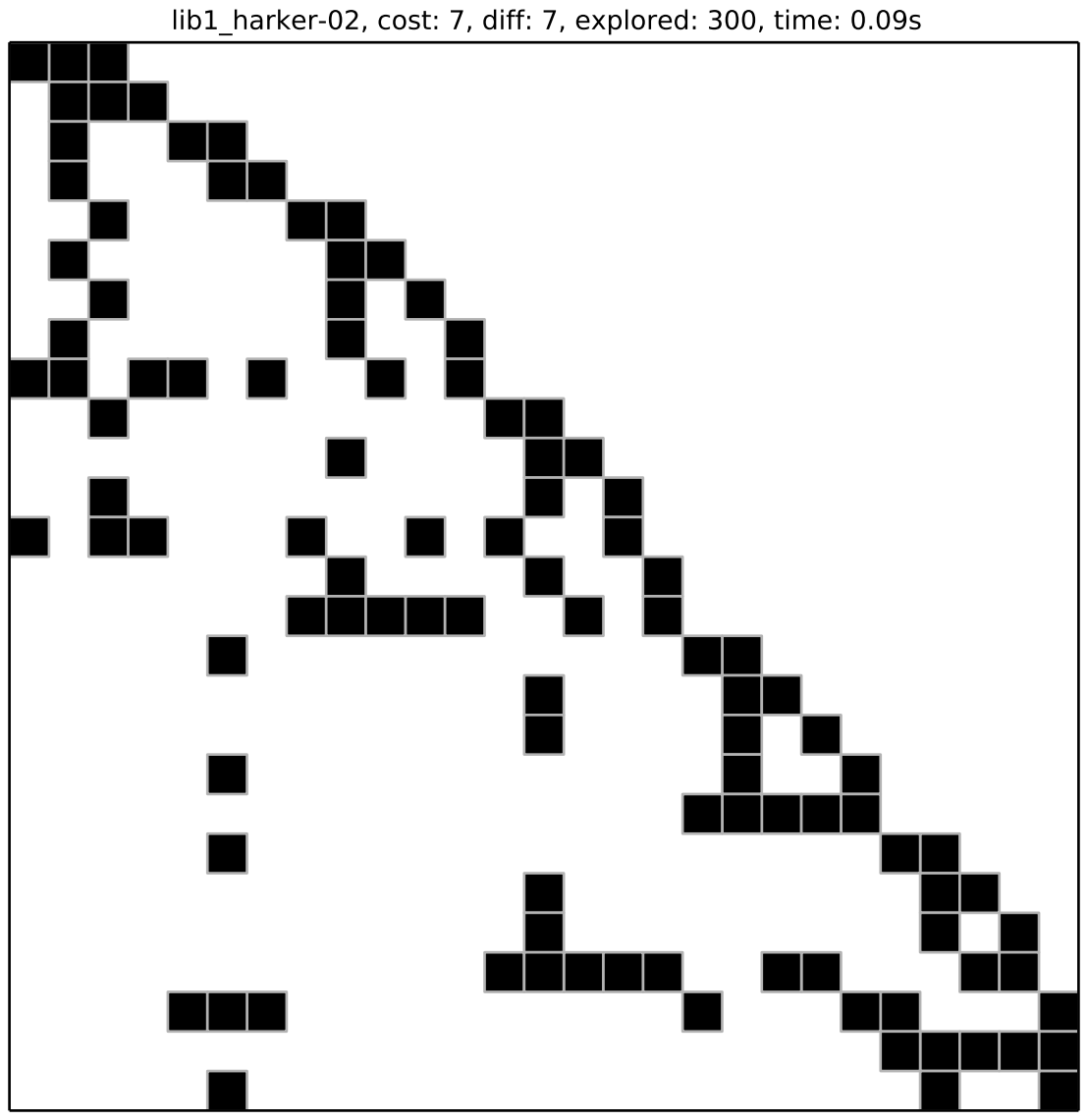


lib1_harker-01, cost: 7, diff: 7, explored: 296, time: 0.09s

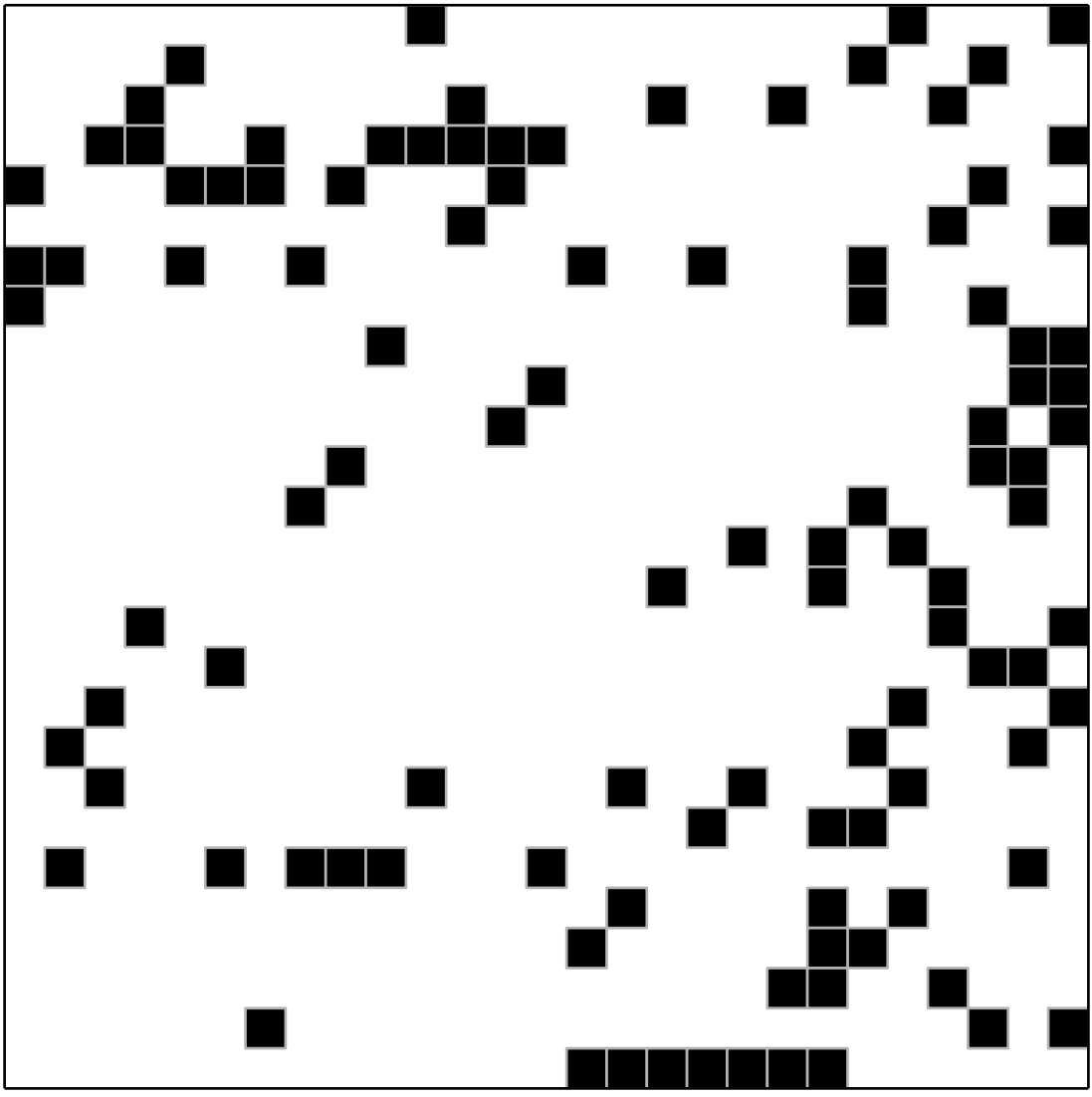


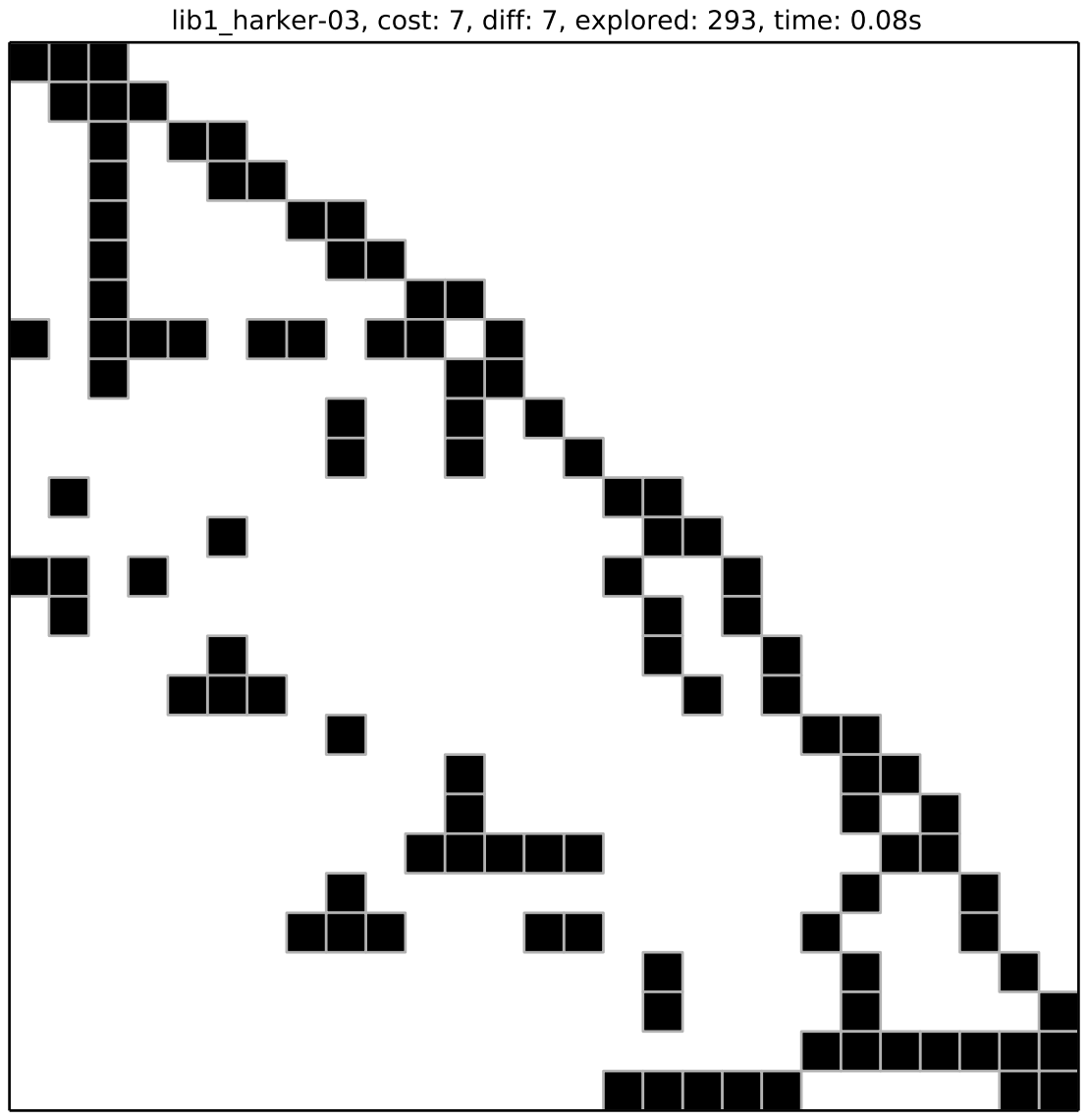
lib1_harker-02 27x27 (107) con: 7, var: 20



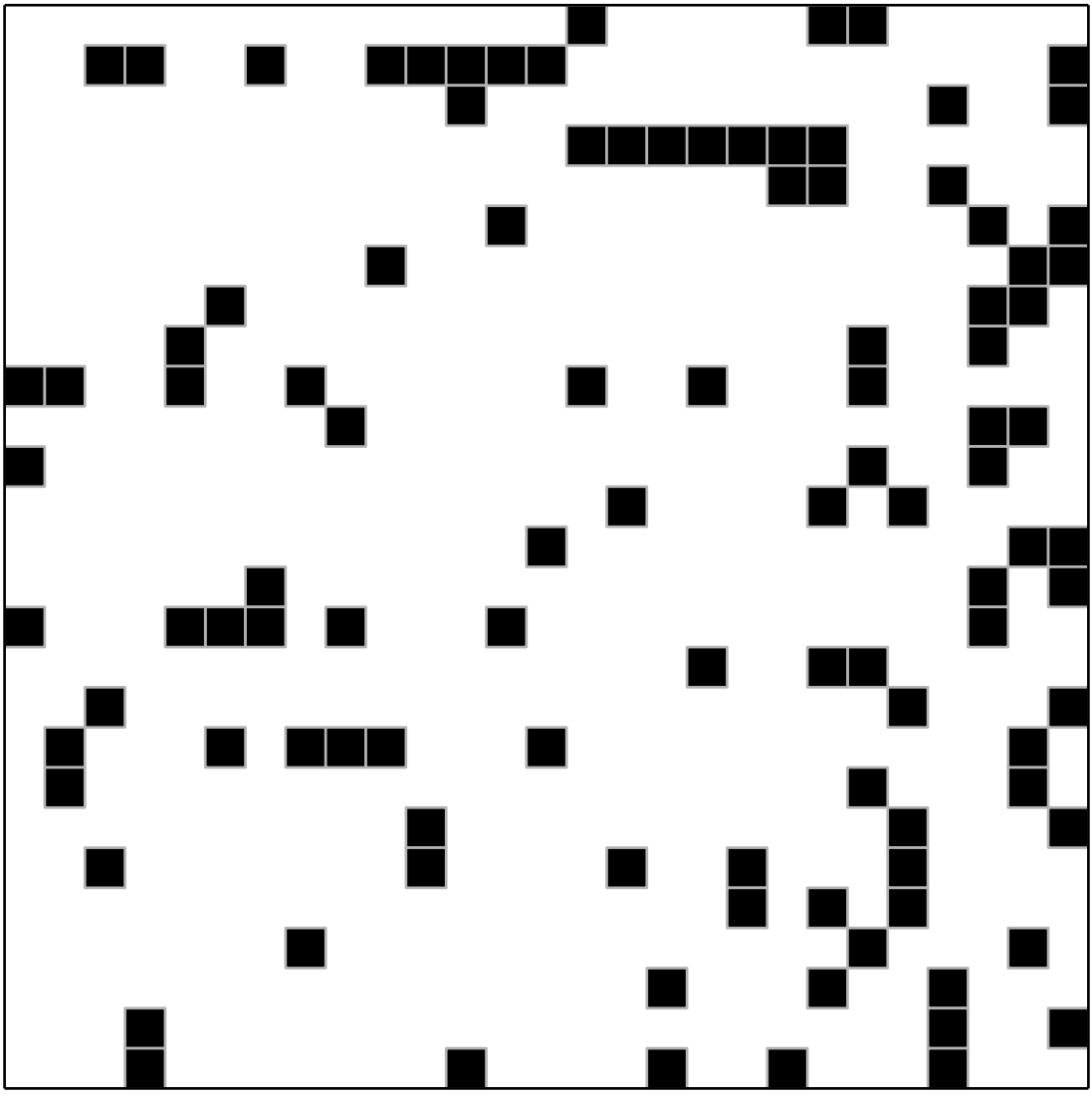

lib1_harker-02, cost: 7, diff: 7, explored: 300, time: 0.09s

lib1_harker-03 27x27 (107) con: 7, var: 20




lib1_harker-03, cost: 7, diff: 7, explored: 293, time: 0.08s

lib1_harker-04 27x27 (107) con: 7, var: 20



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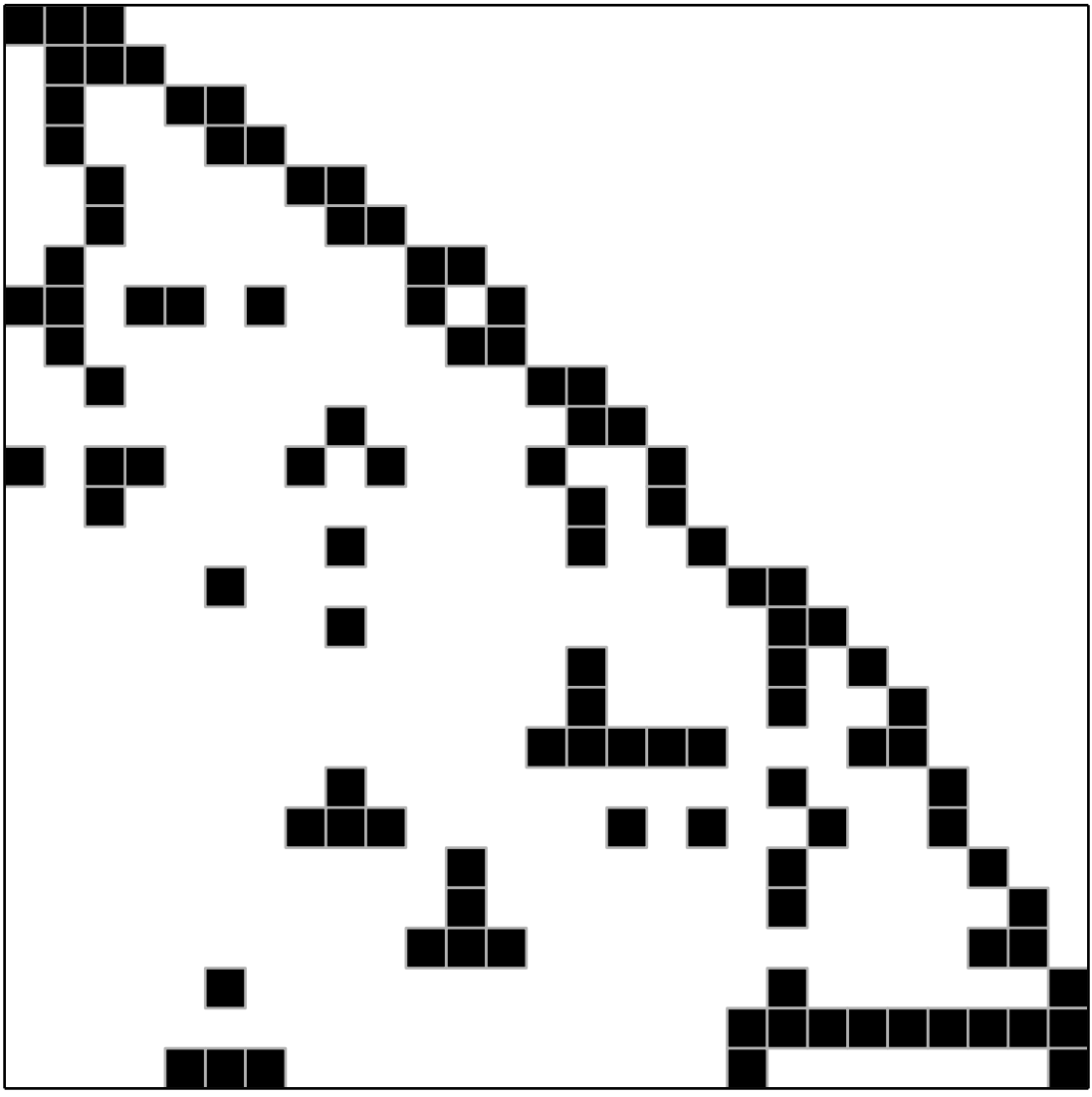
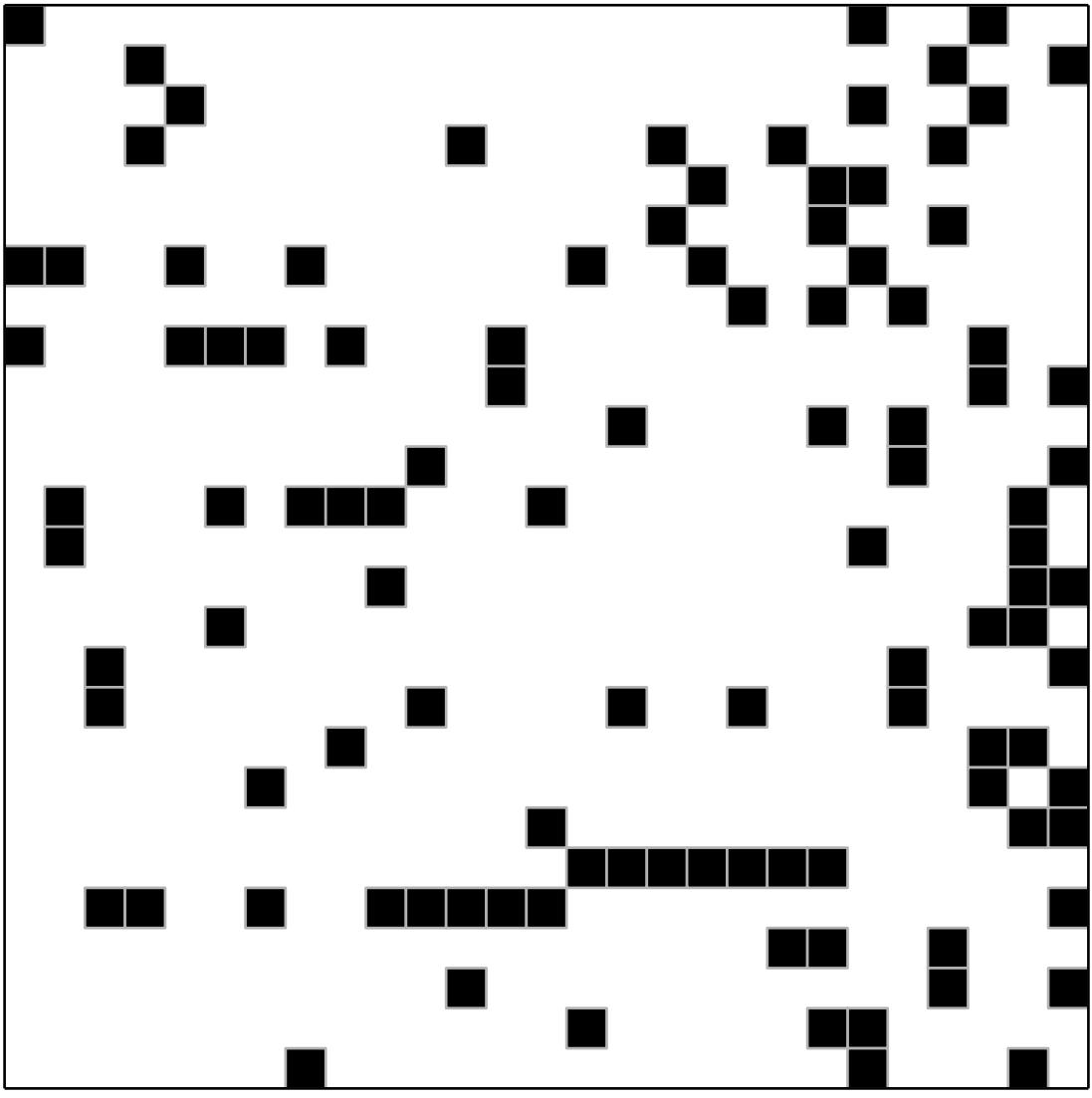
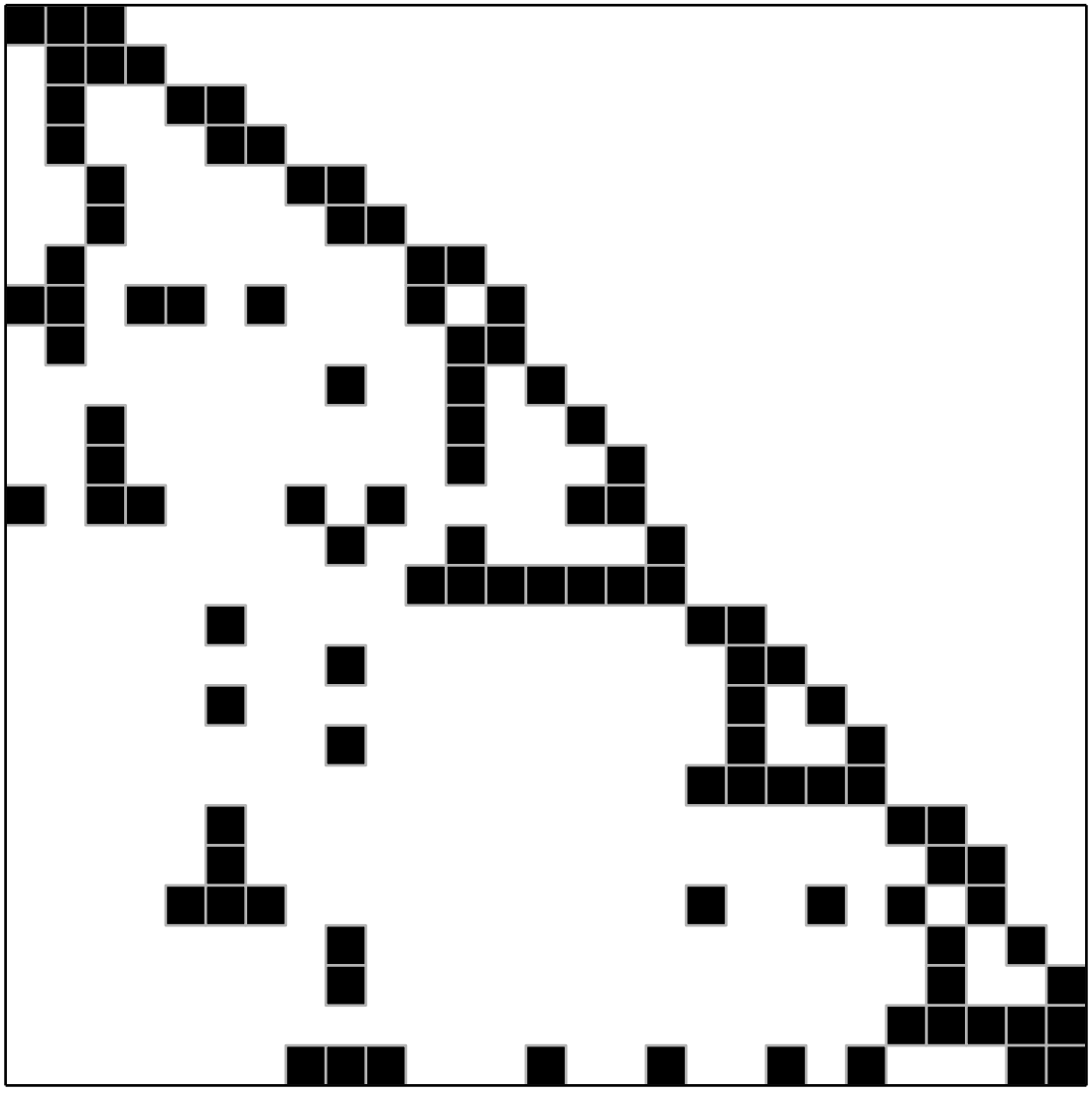


lib1_harker-05 27x27 (107) con: 7, var: 20

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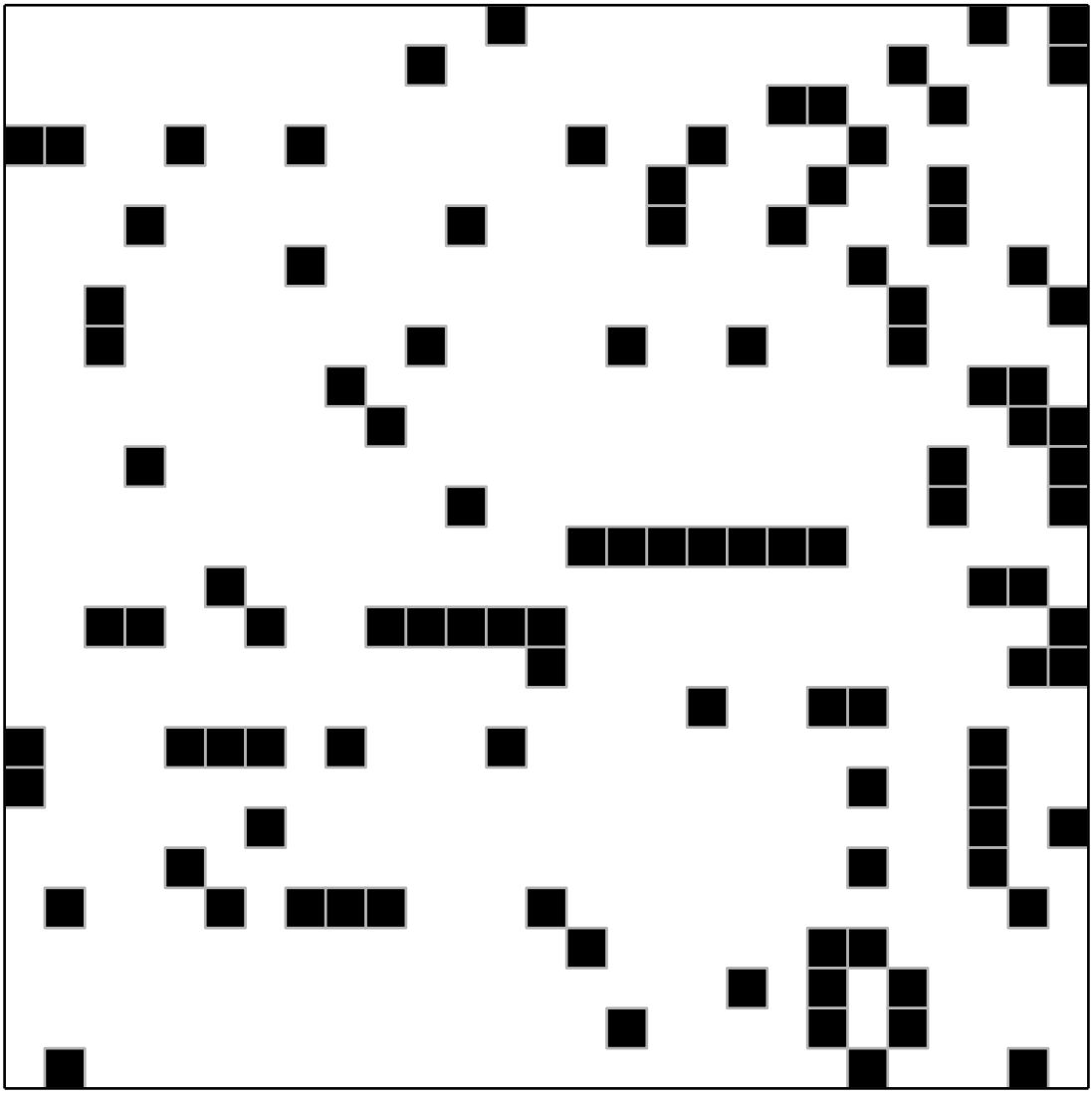
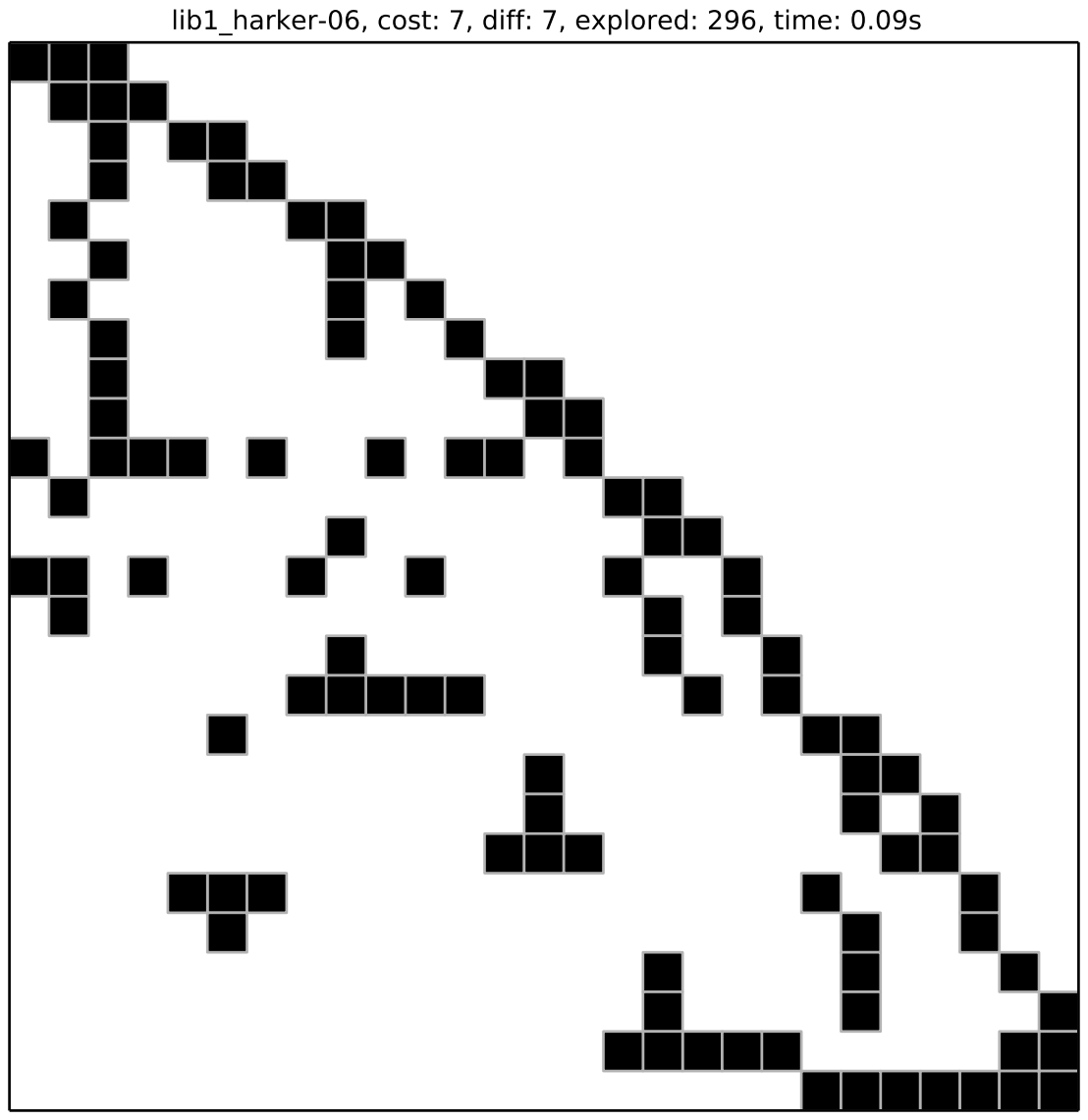
lib1_harker-06 27x27 (107) con: 7, var: 20

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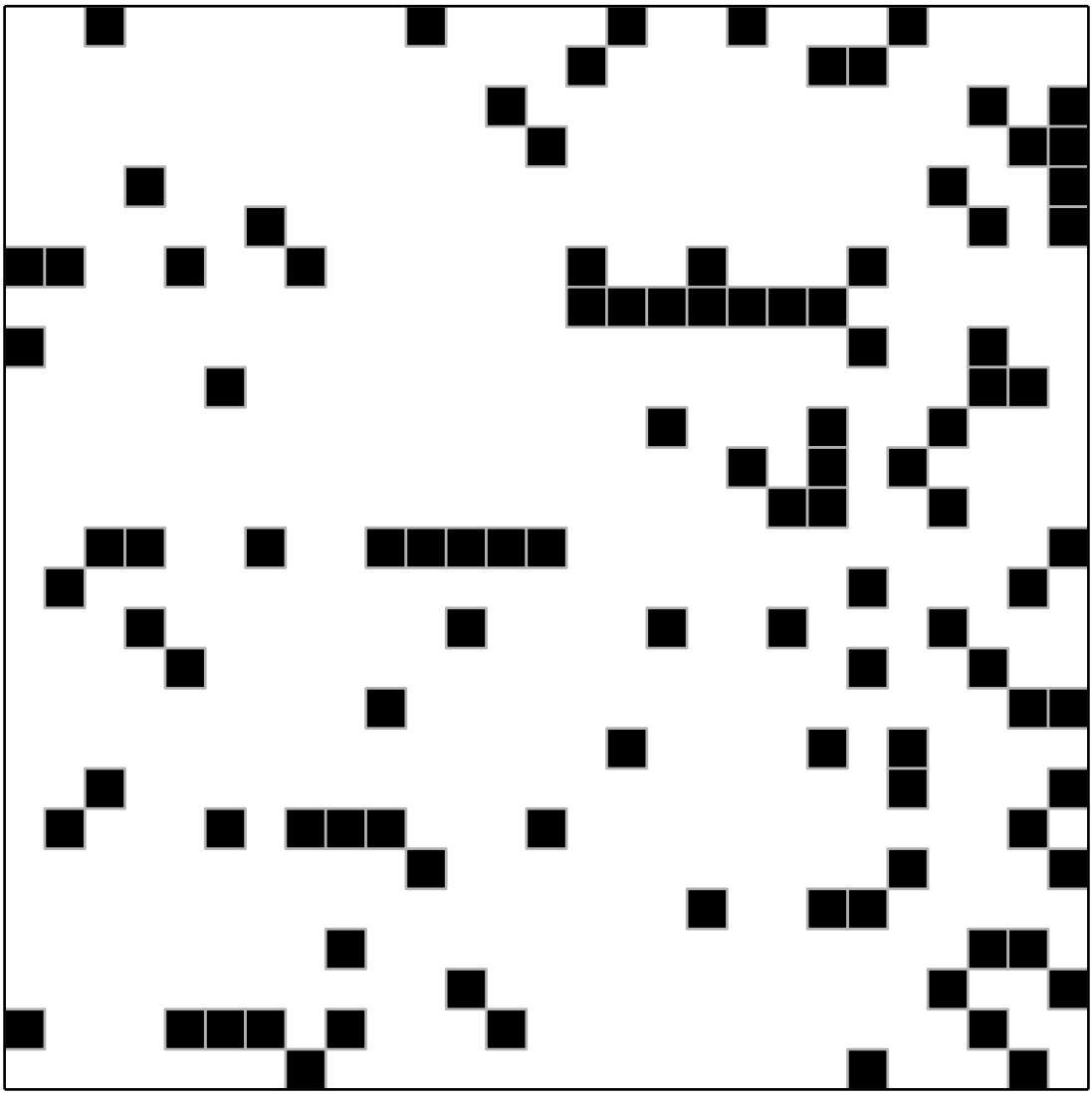
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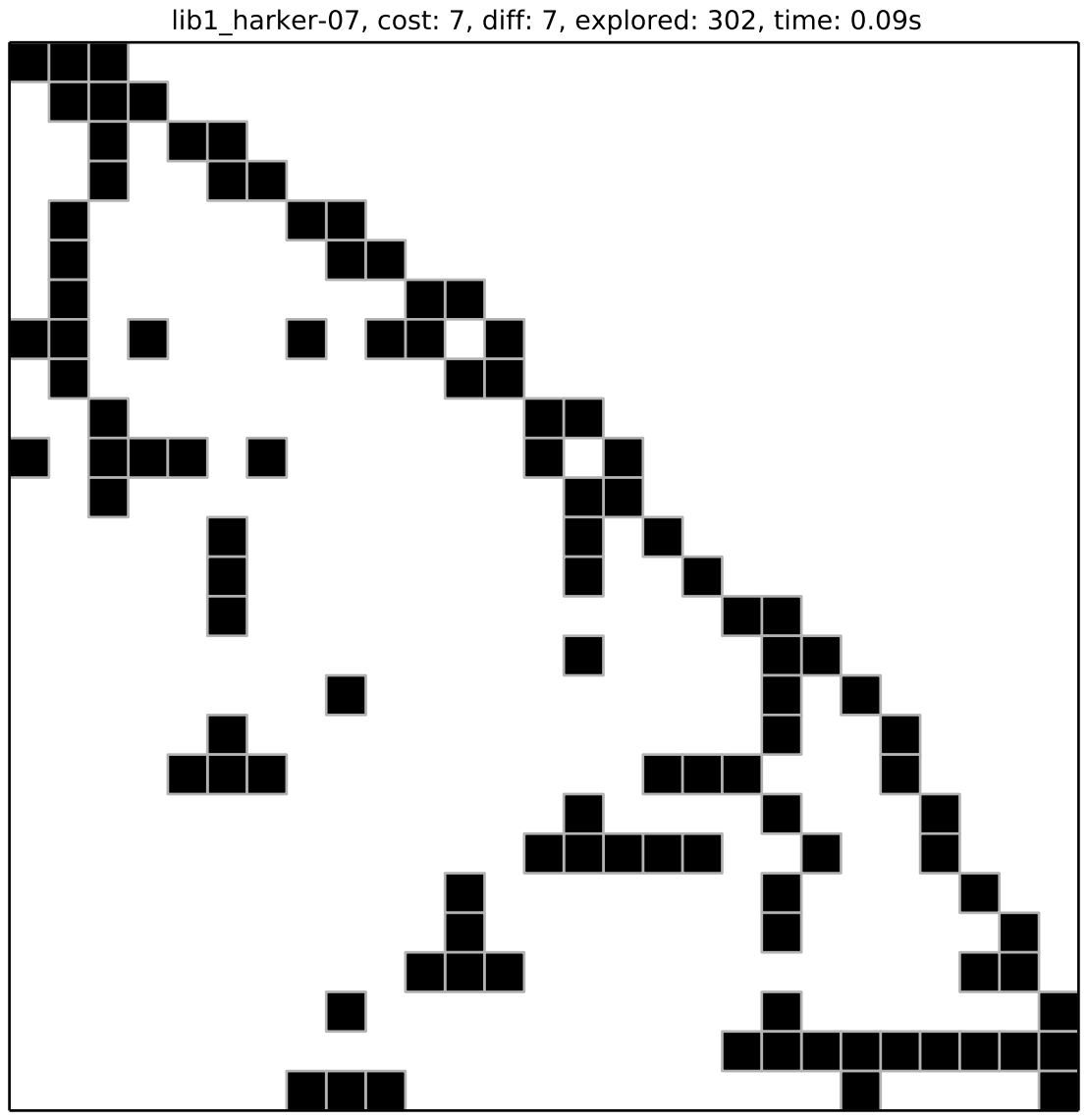
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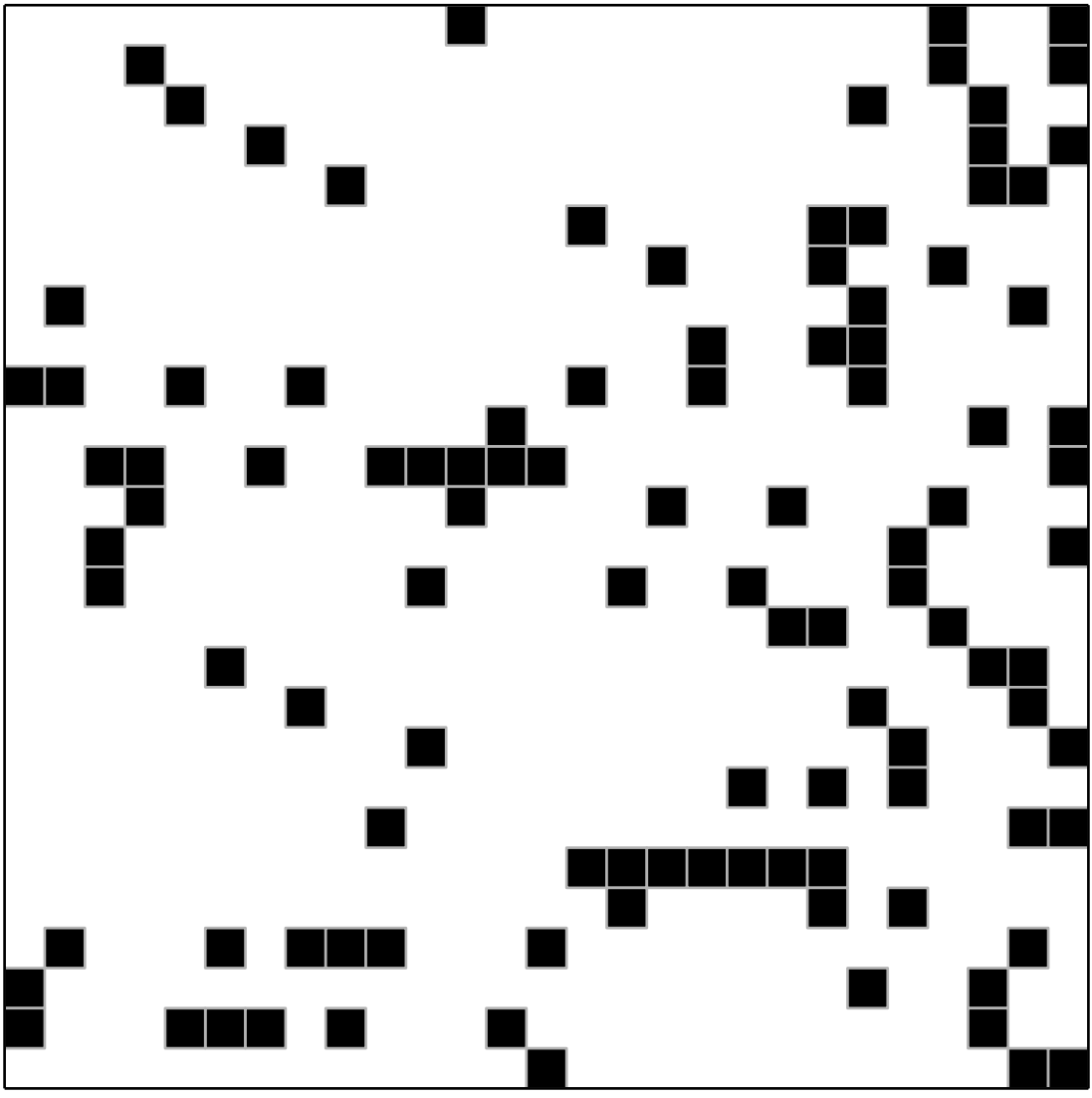
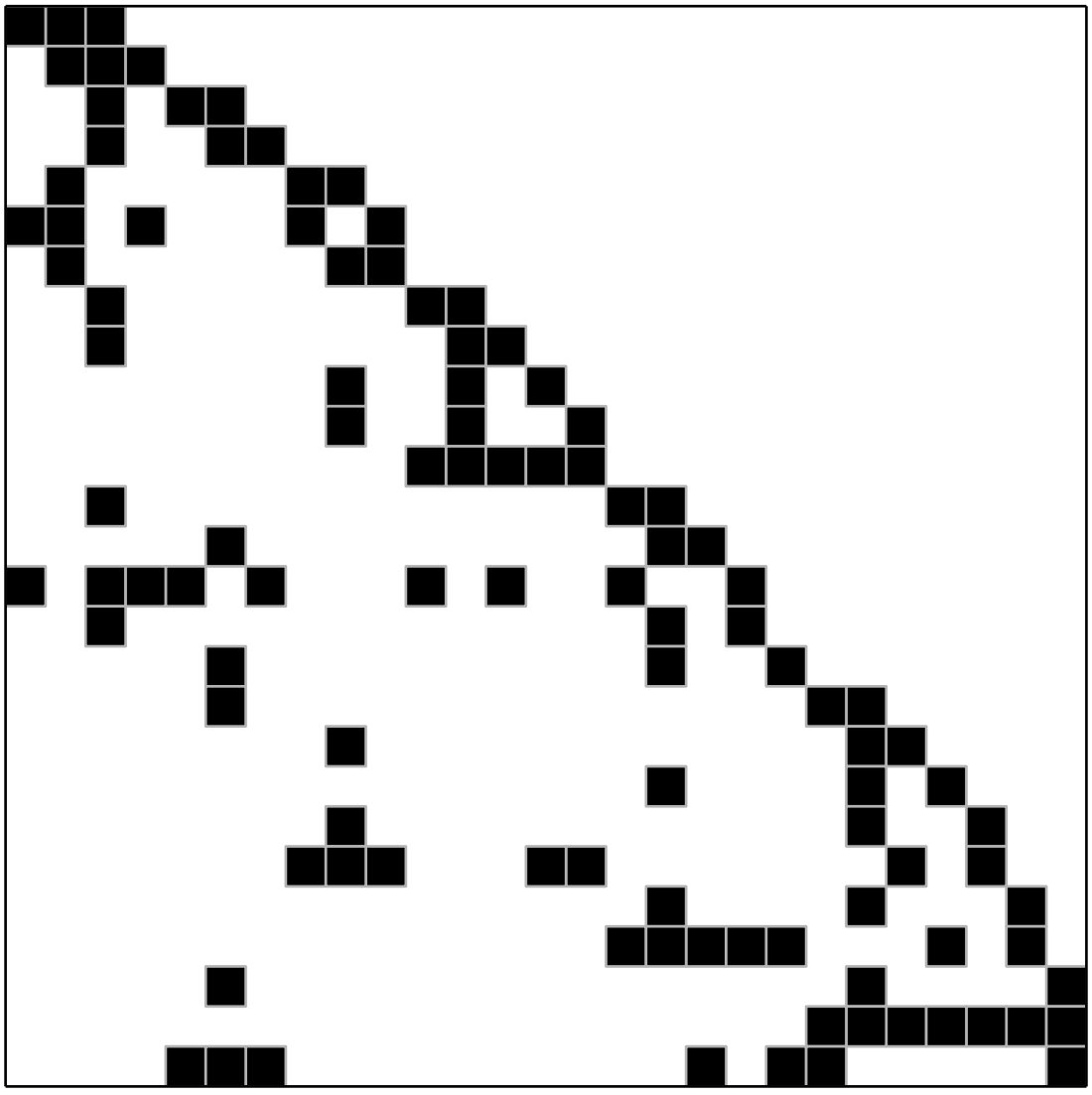
lib1_harker-08 27x27 (107) con: 7, var: 20

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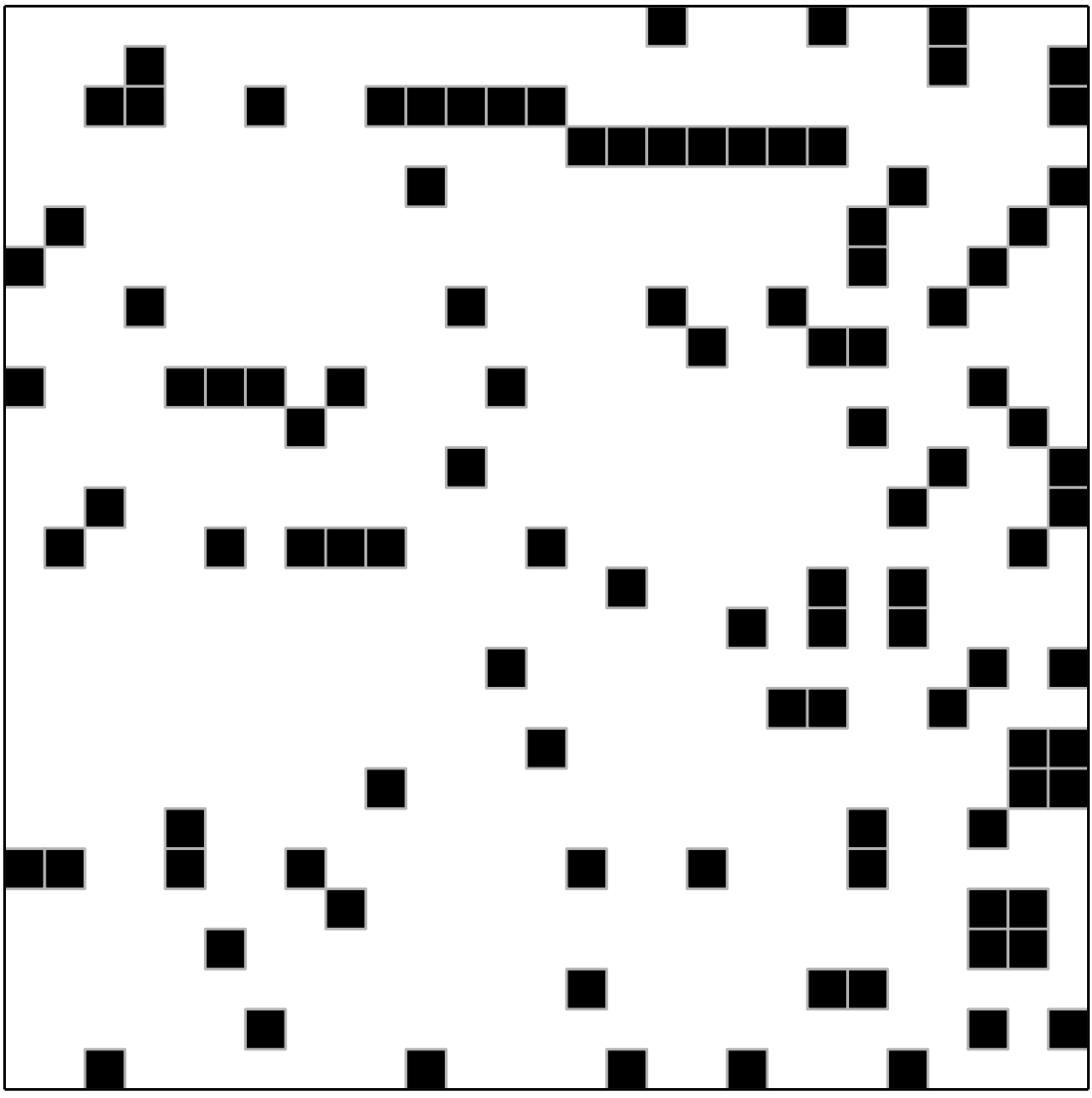
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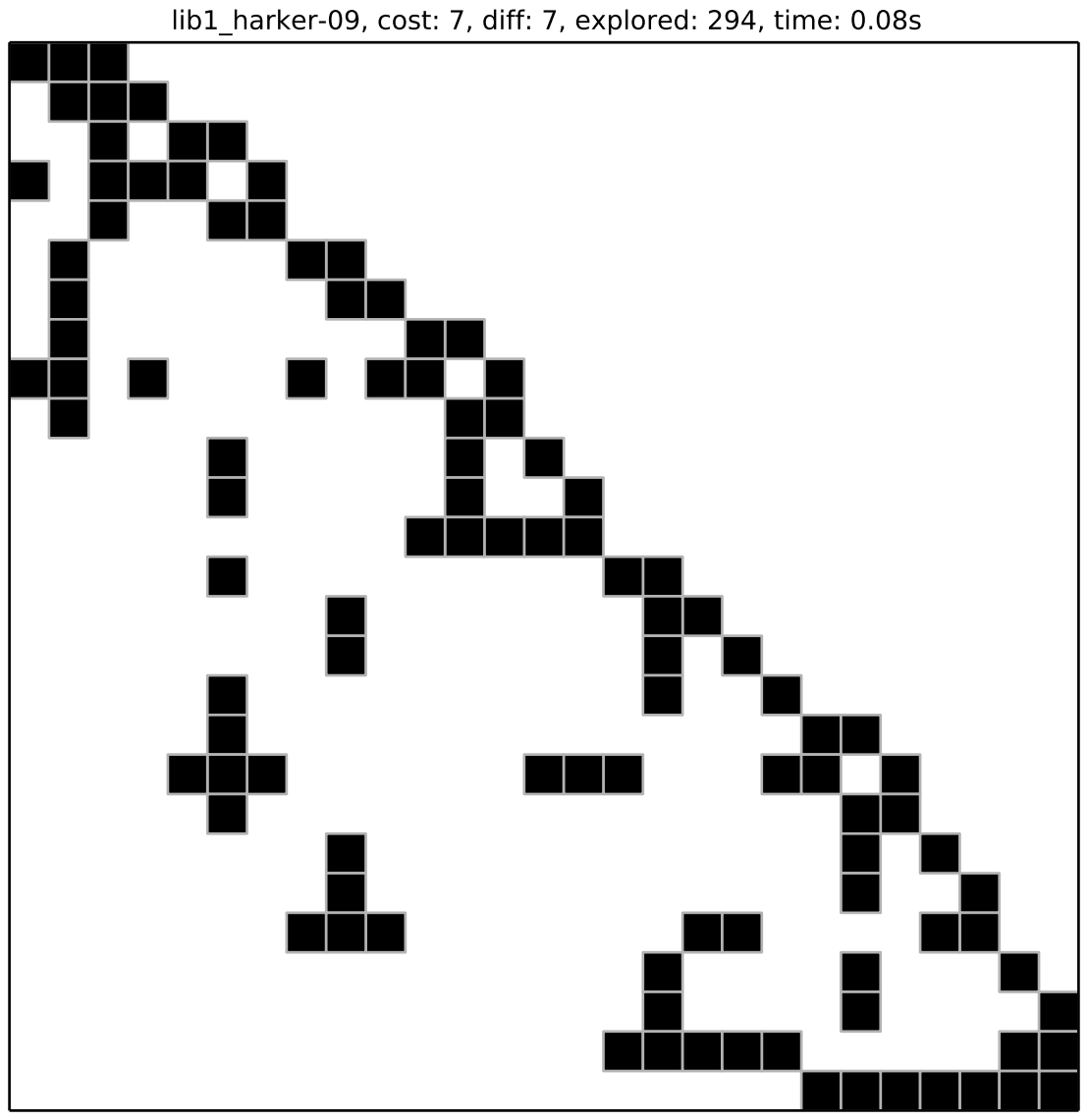
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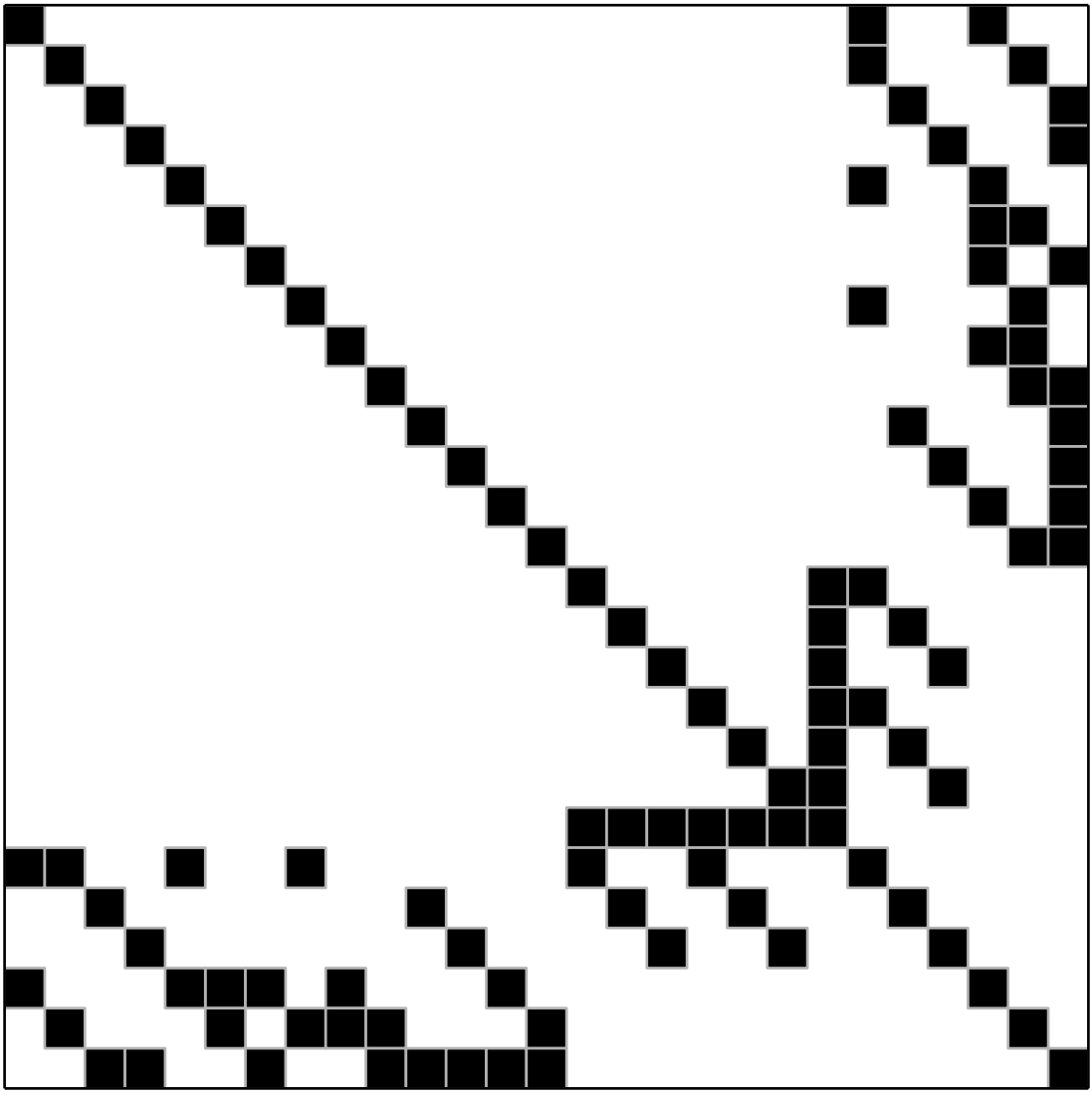
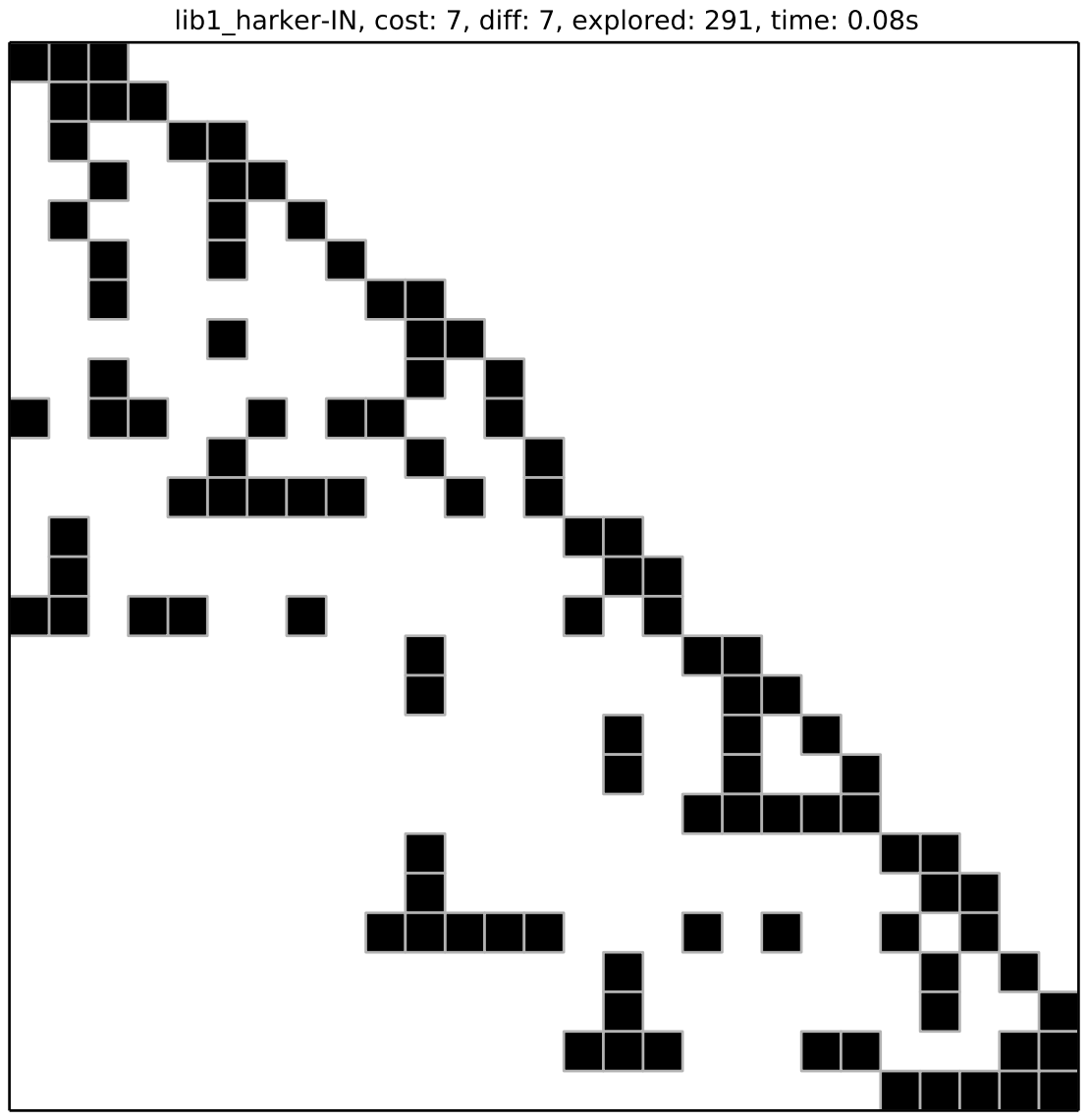

lib1_harker-IN 27x27 (107) con: 7, var: 20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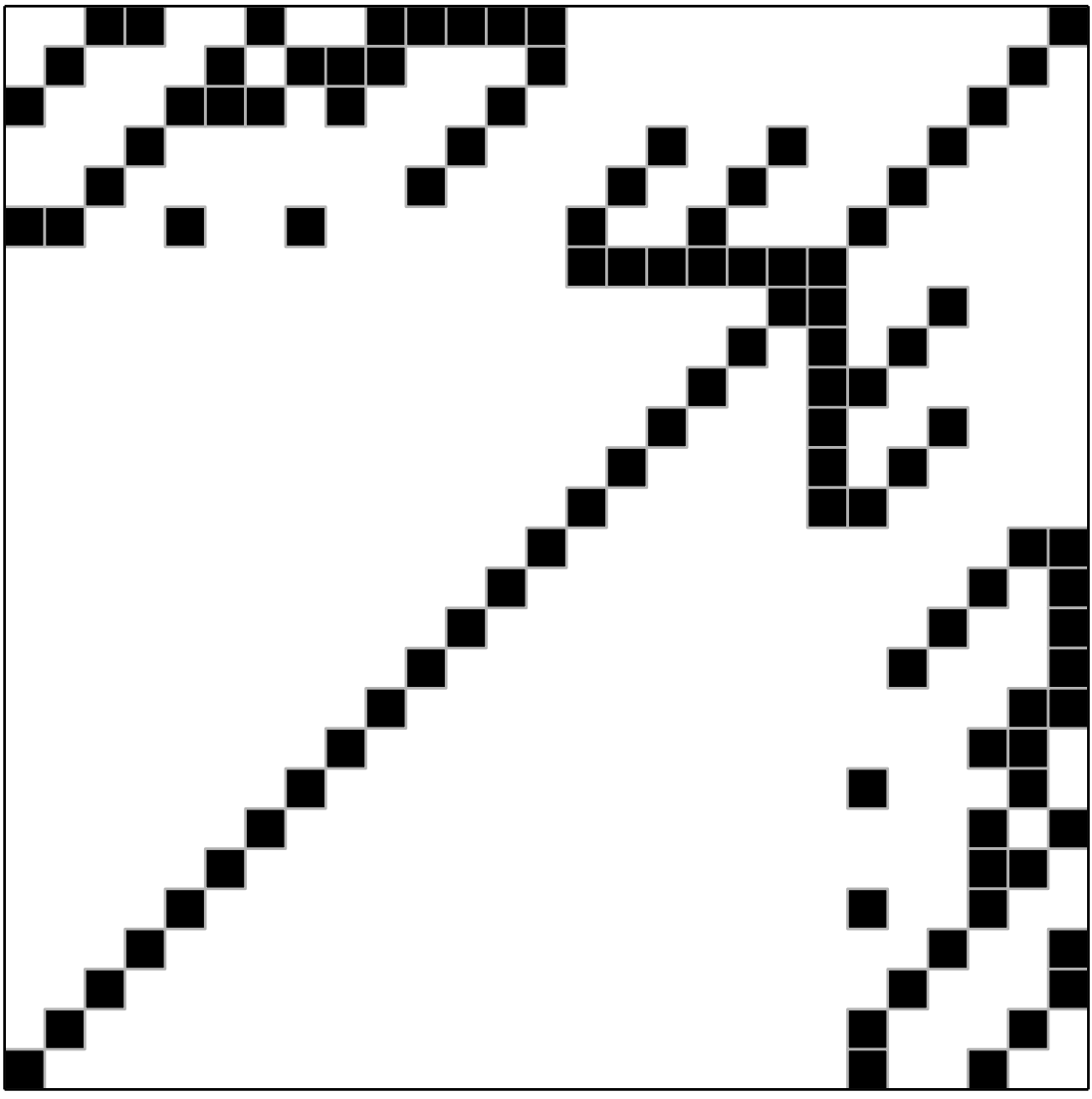
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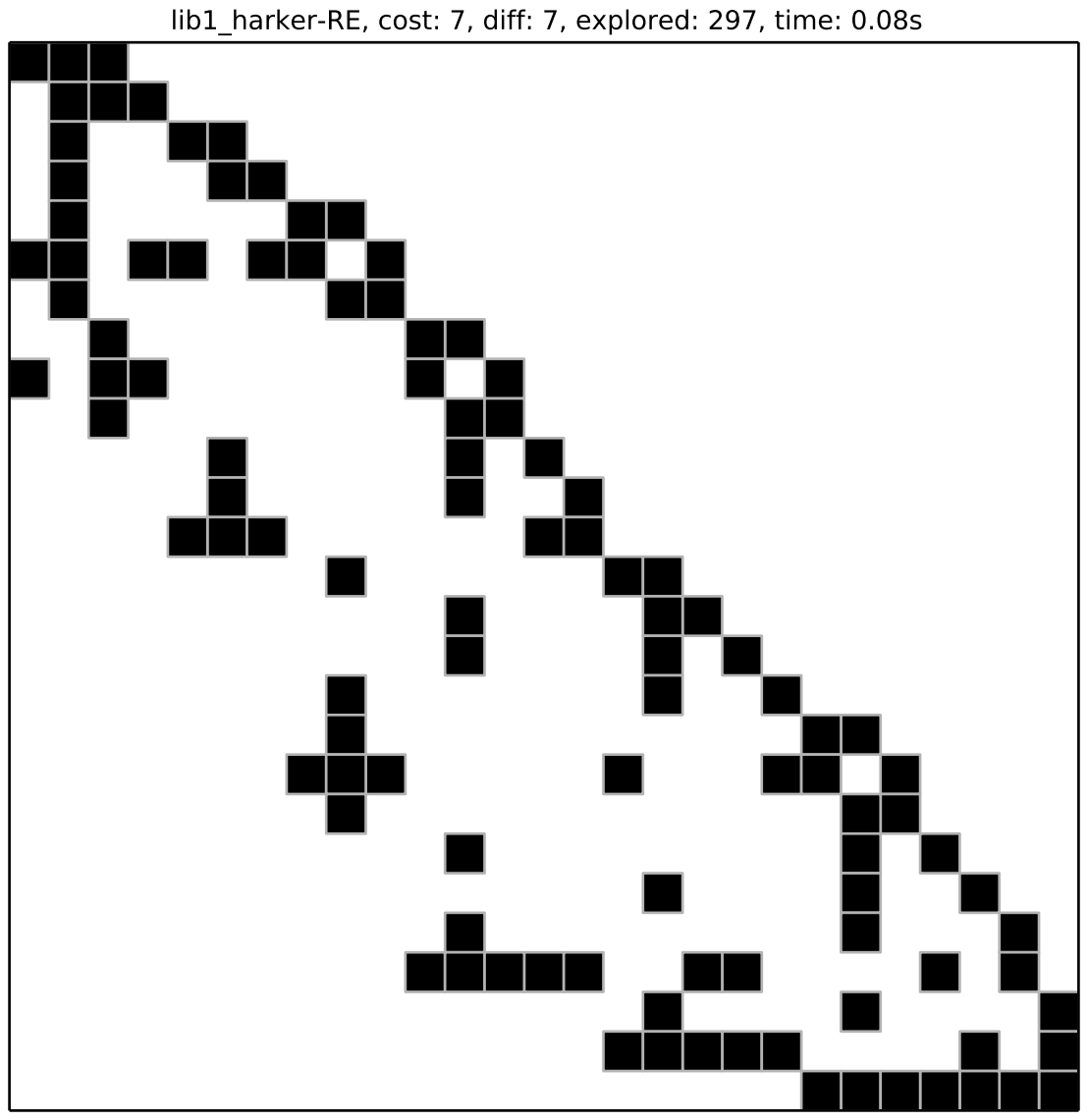
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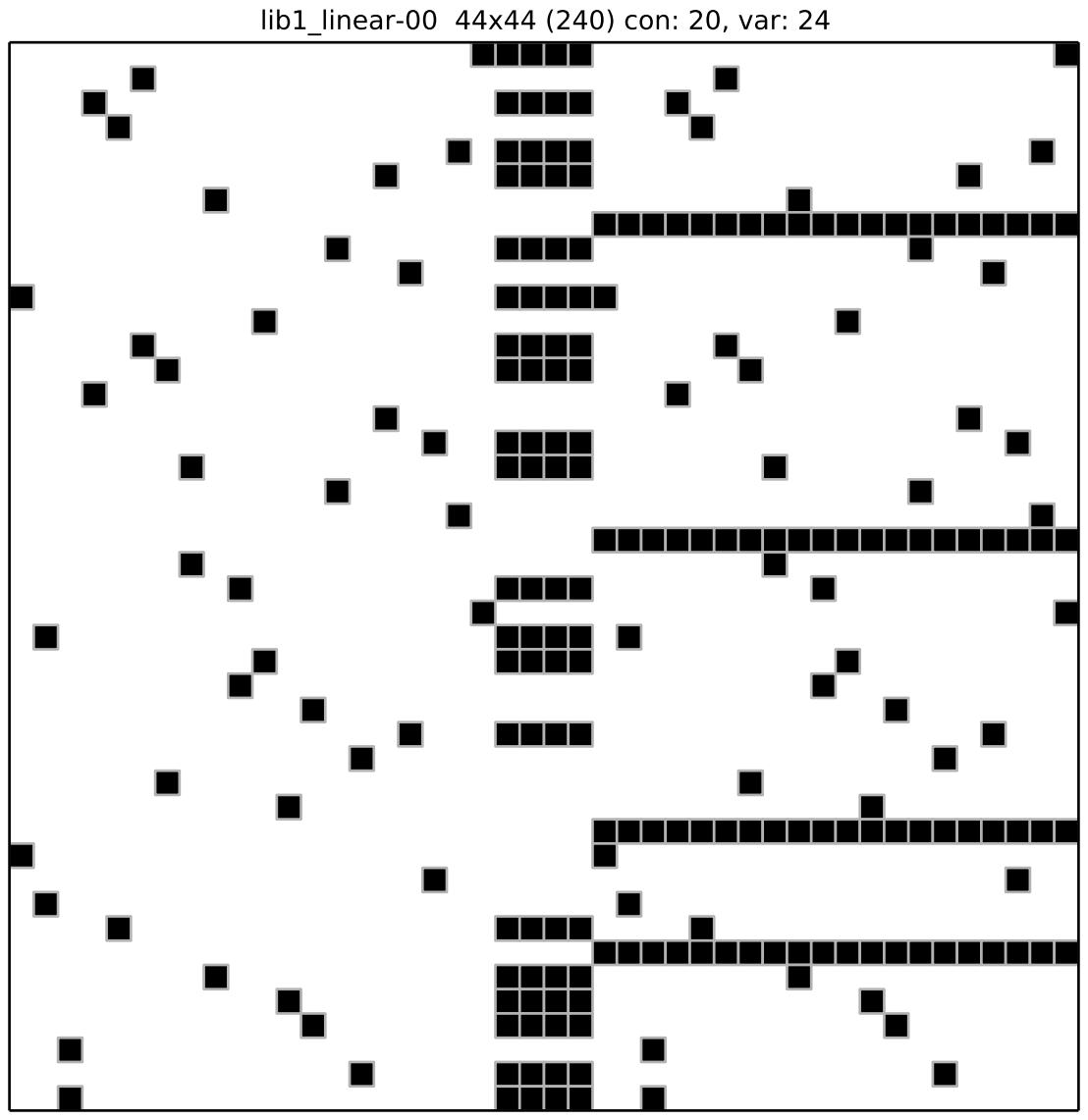
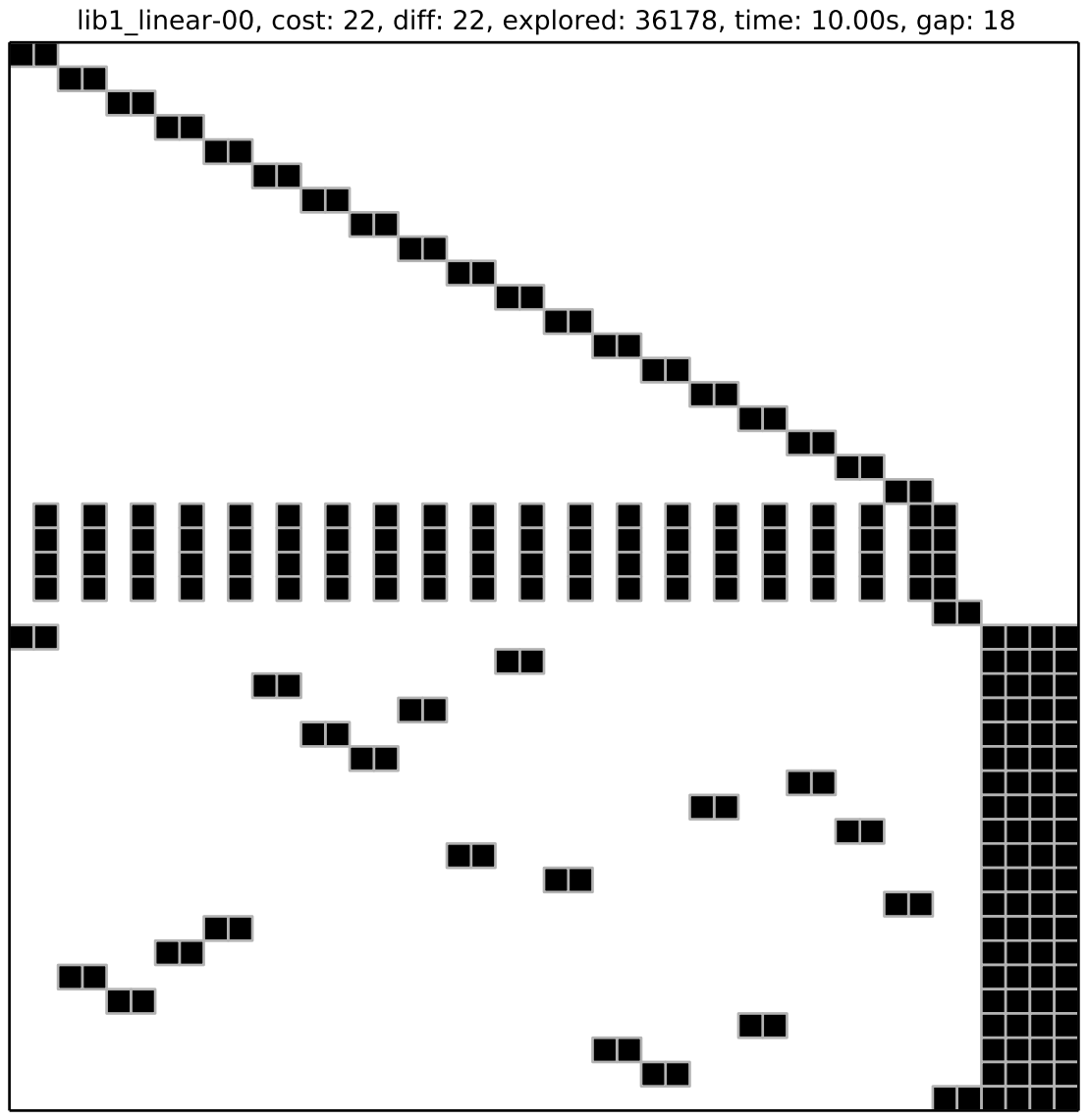

lib1_linear-00 44x44 (240) con: 20, var: 24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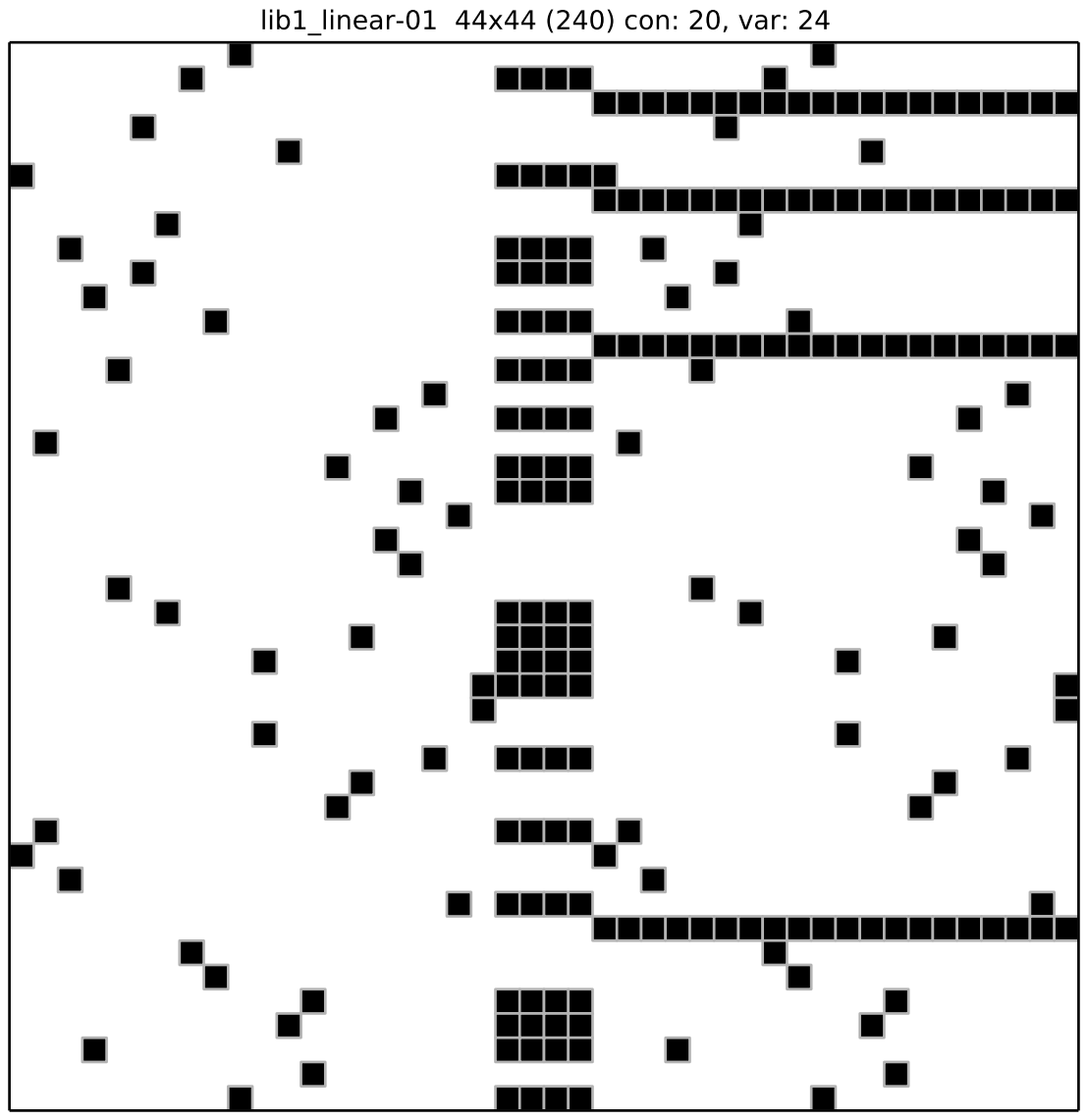
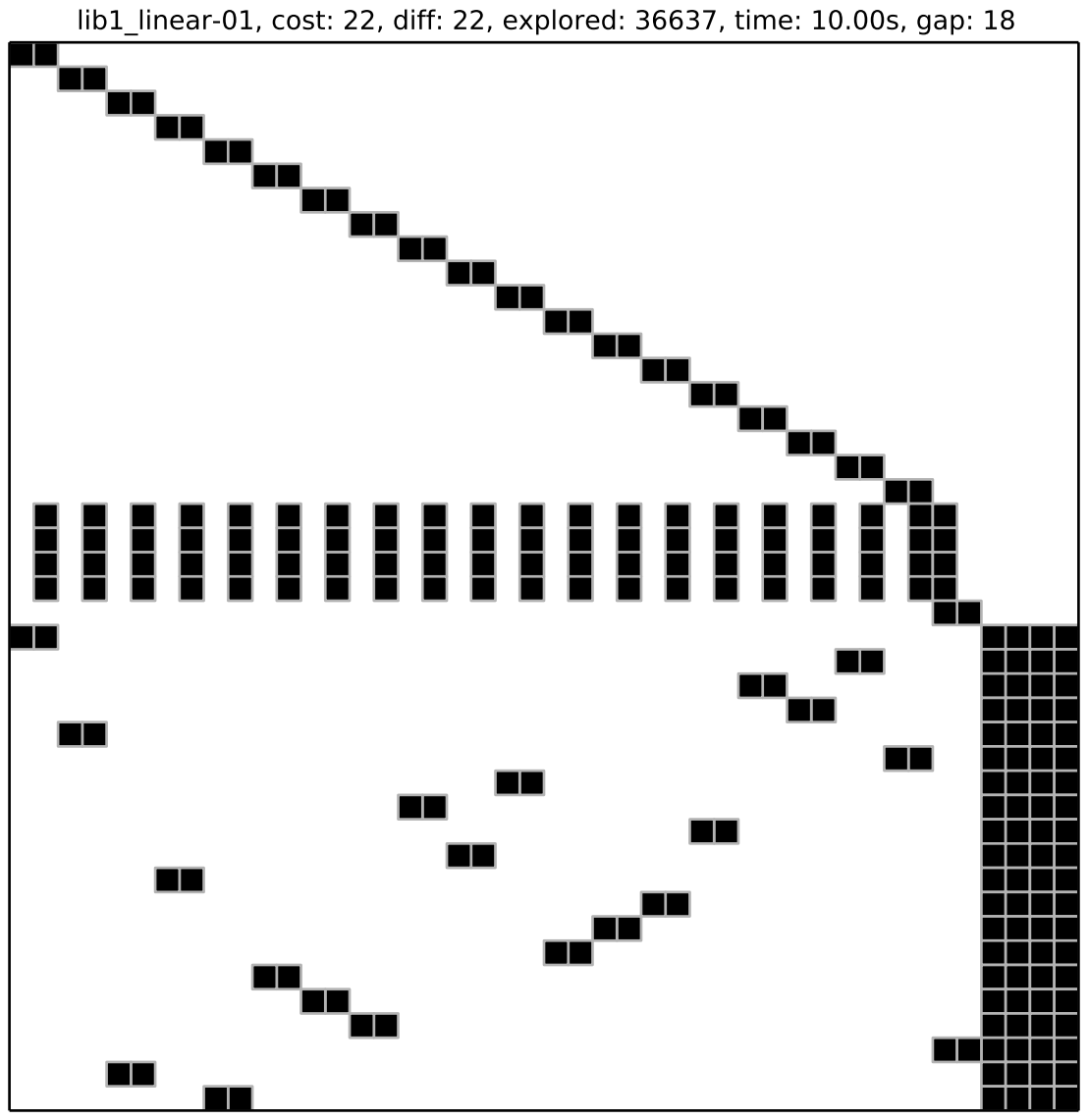

lib1_linear-01 44x44 (240) con: 20, var: 24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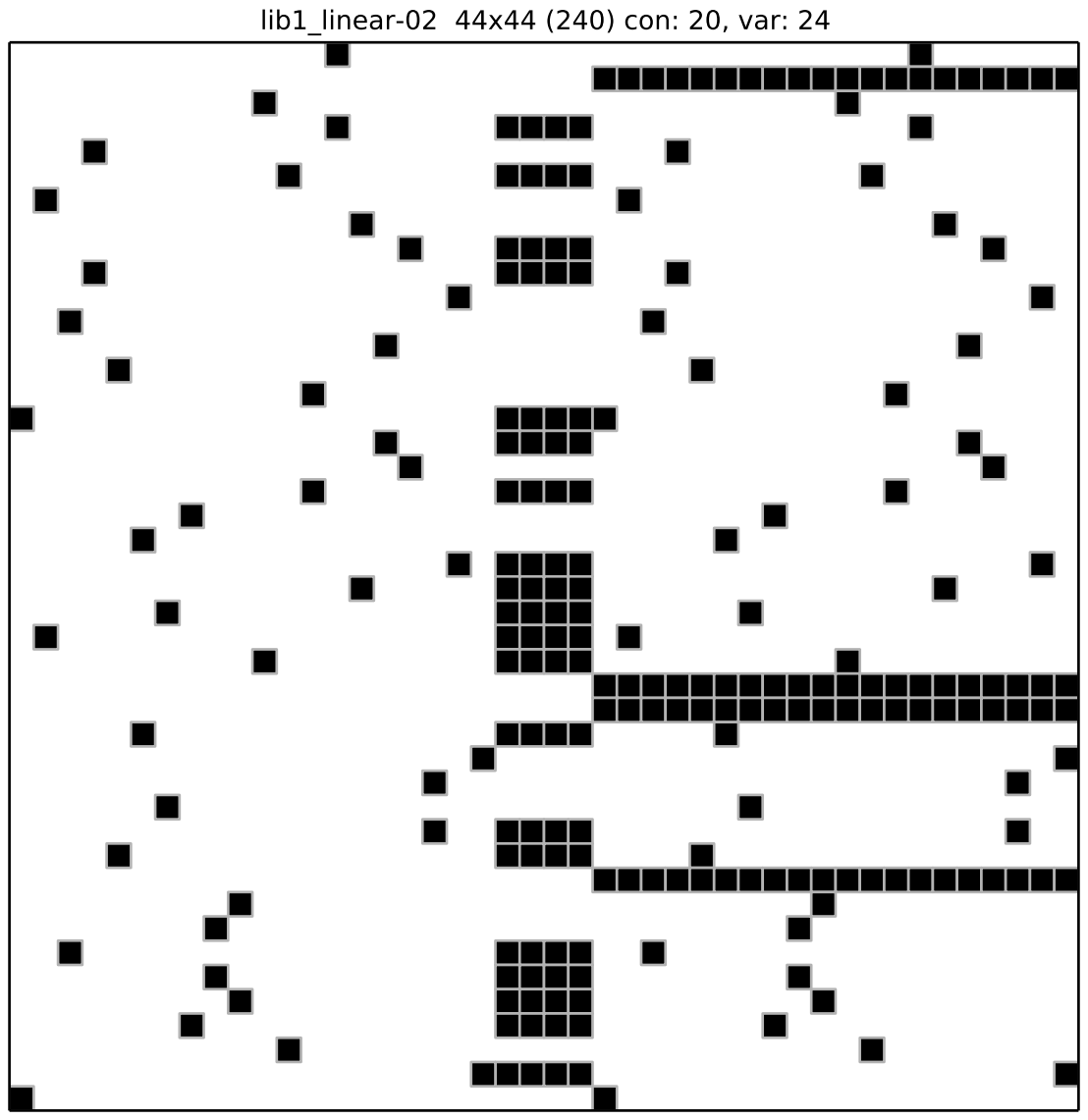
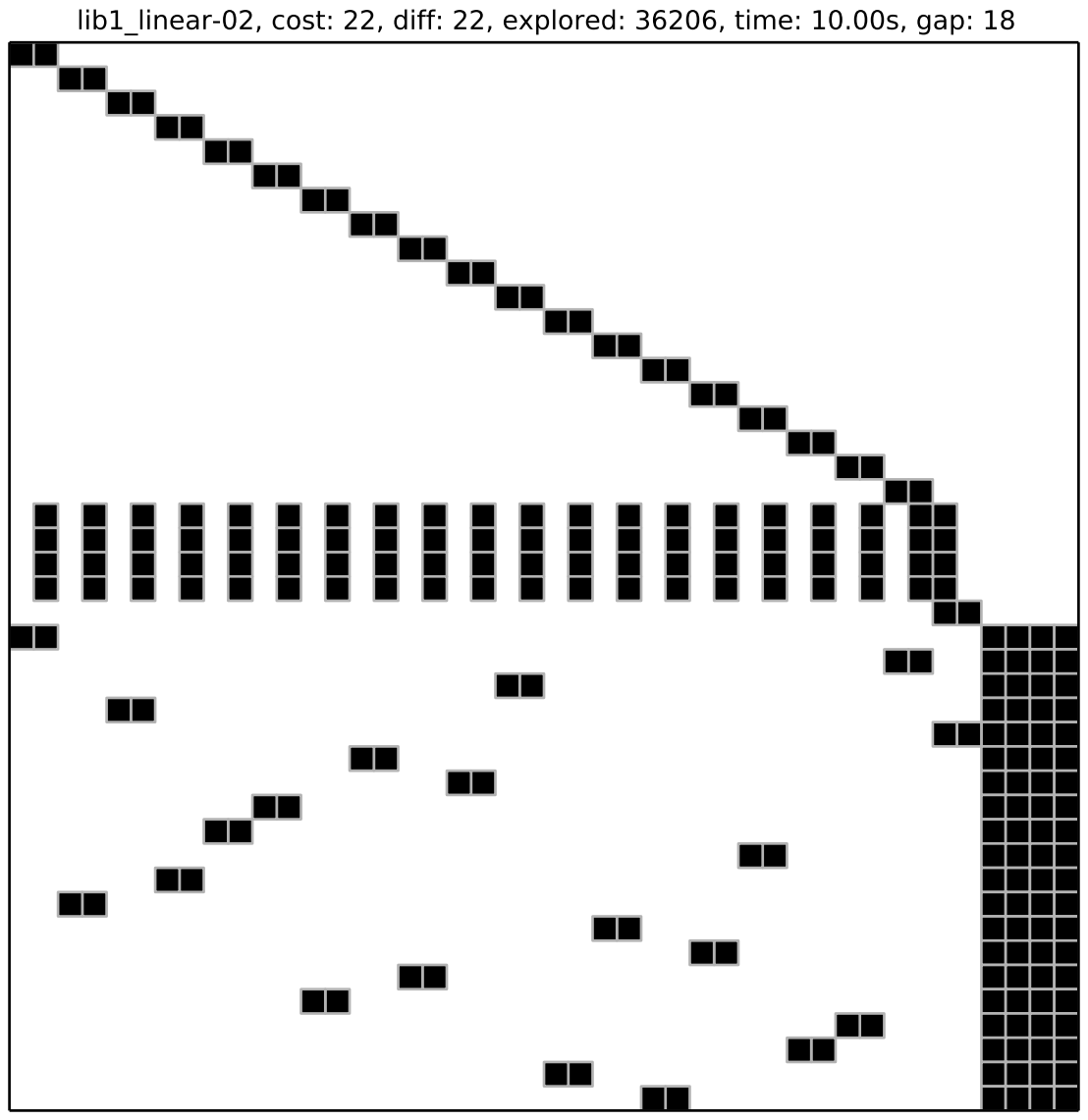

lib1_linear-02 44x44 (240) con: 20, var: 24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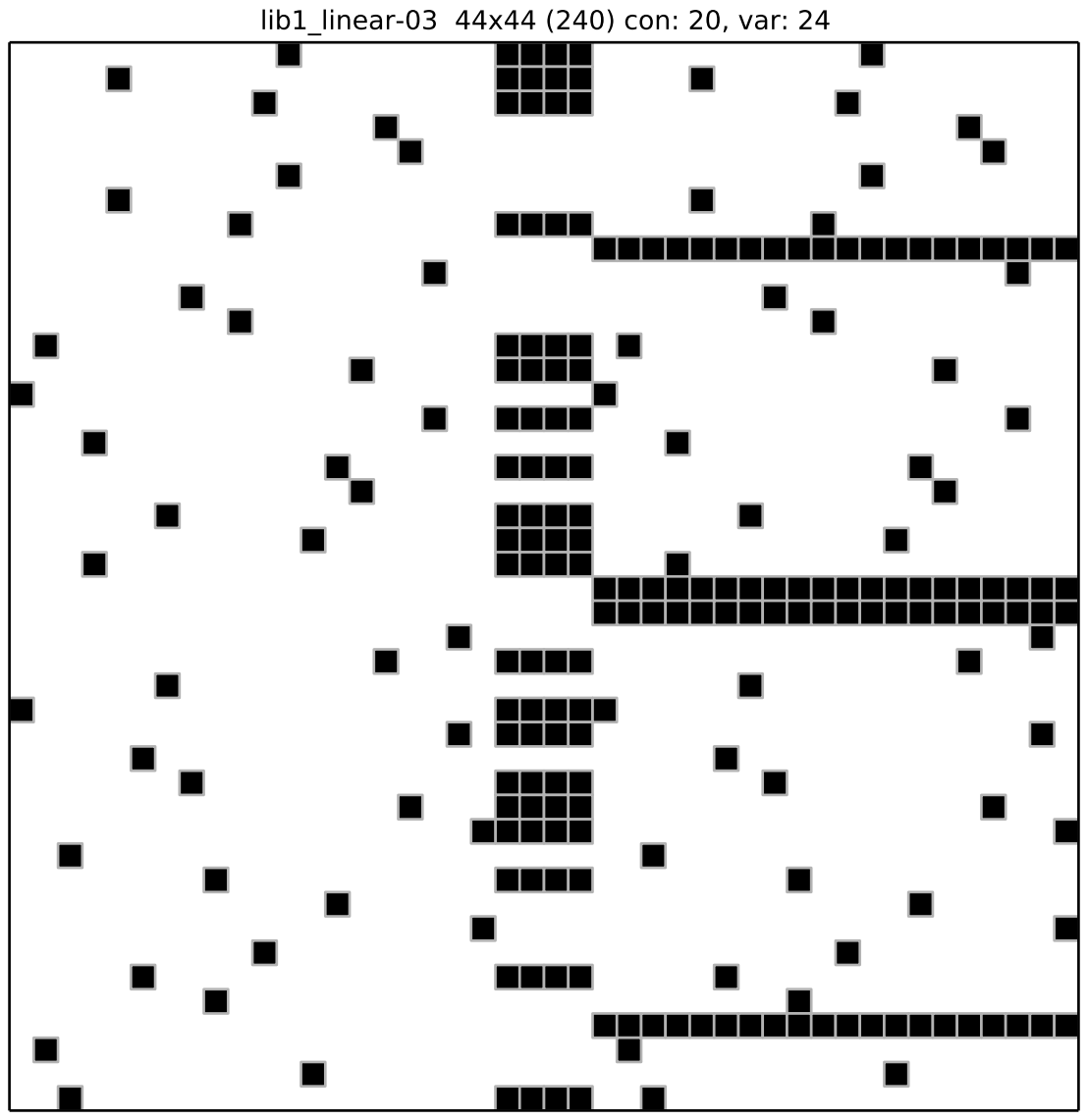
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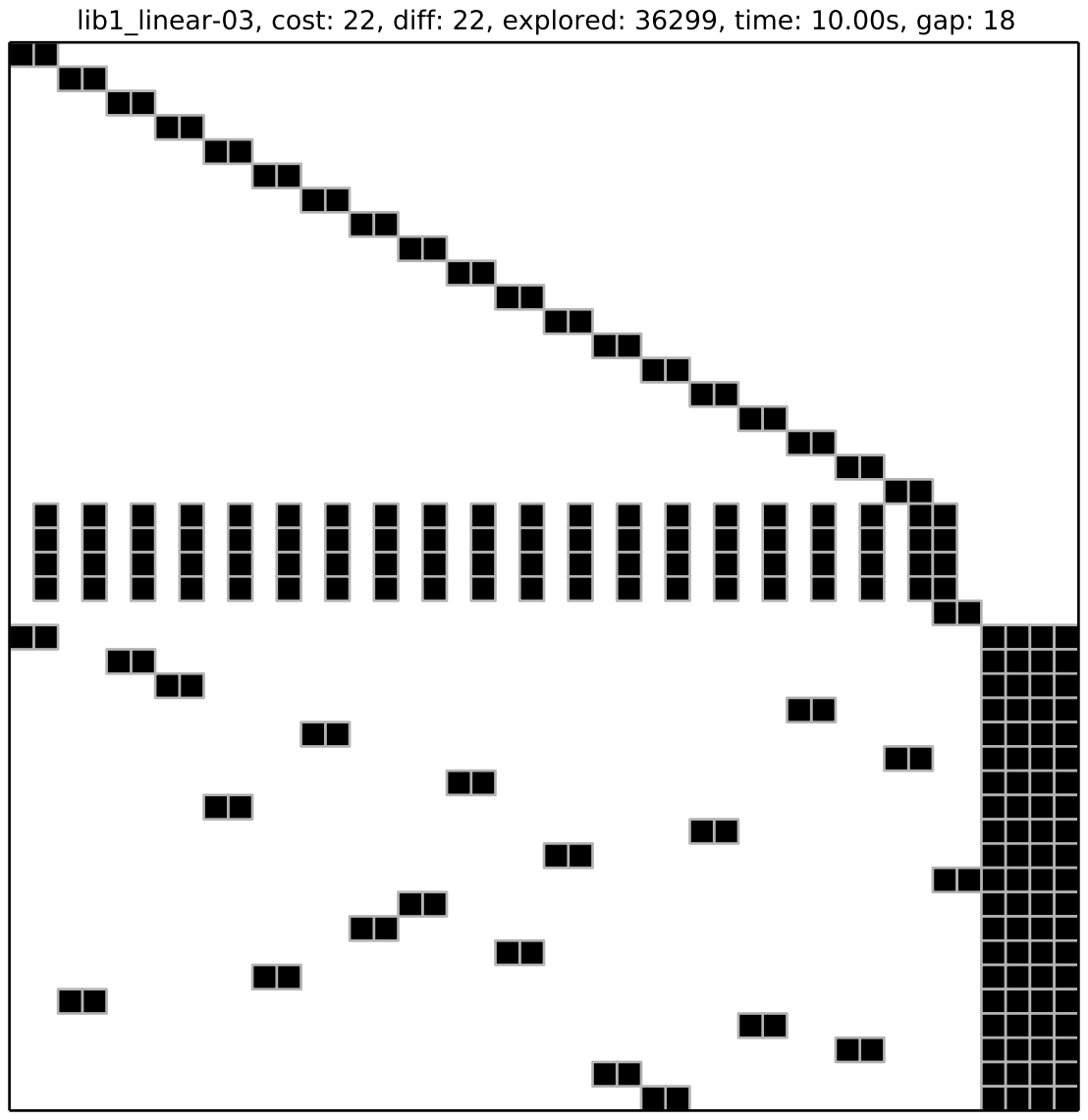
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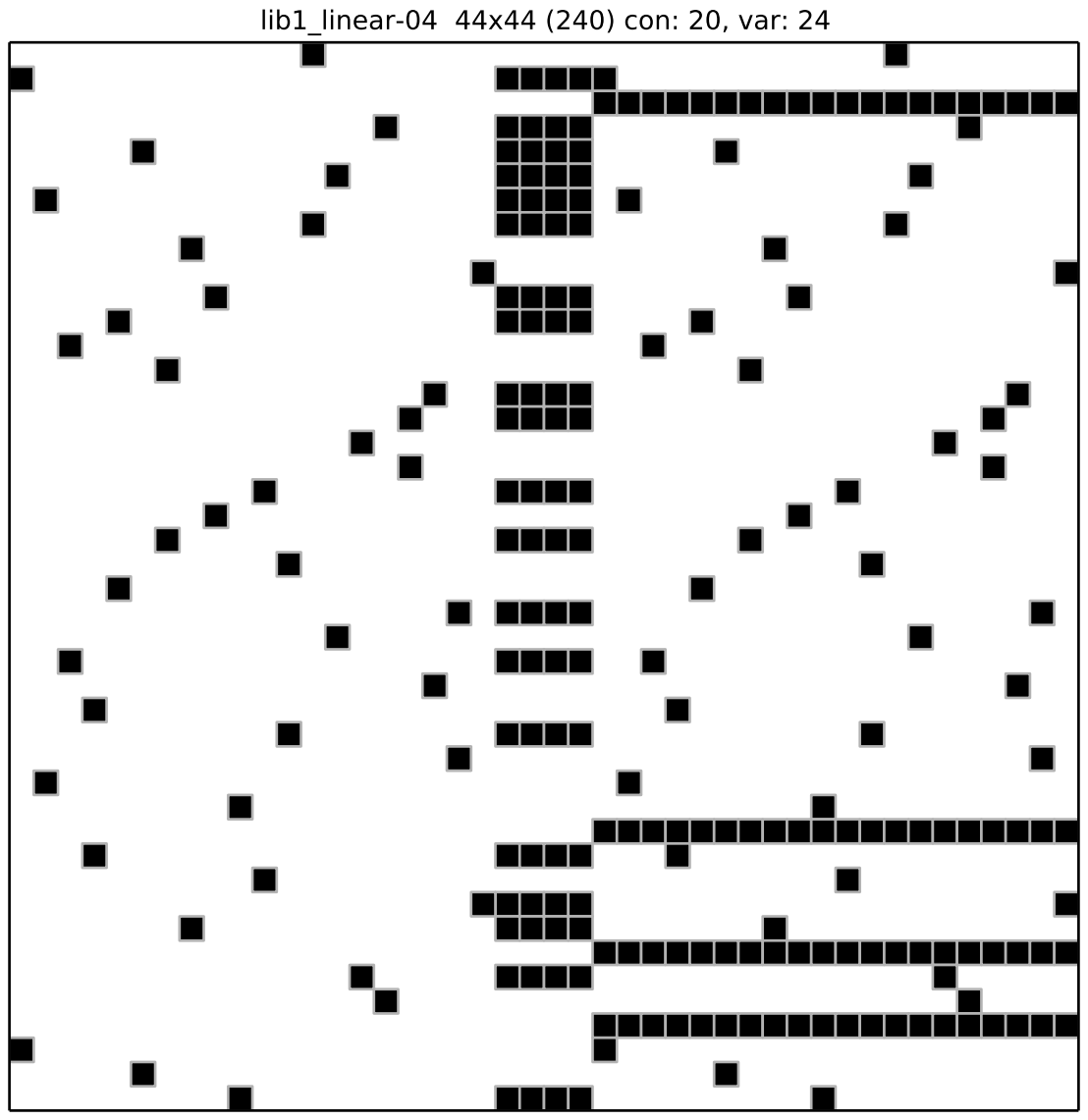
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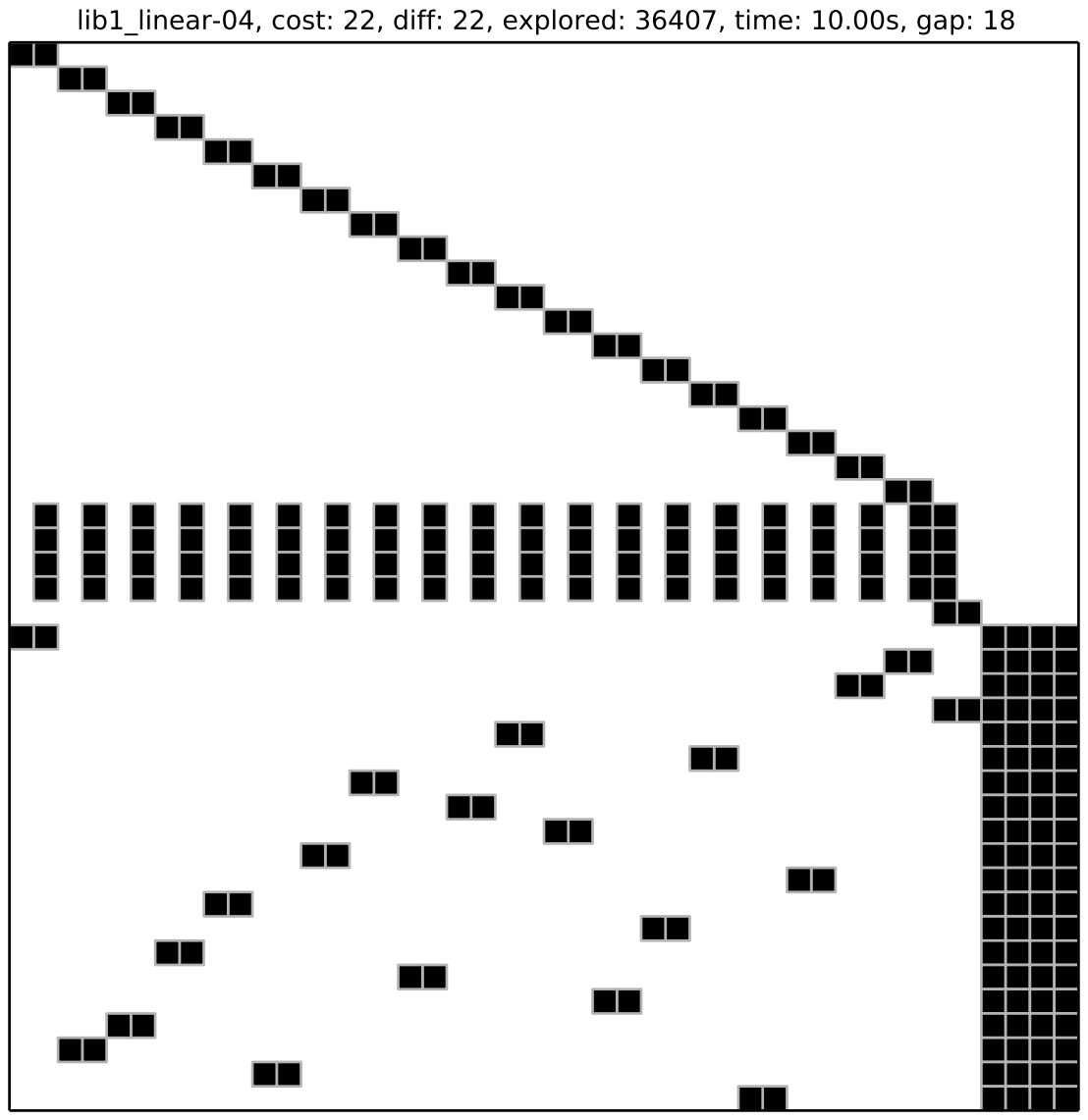
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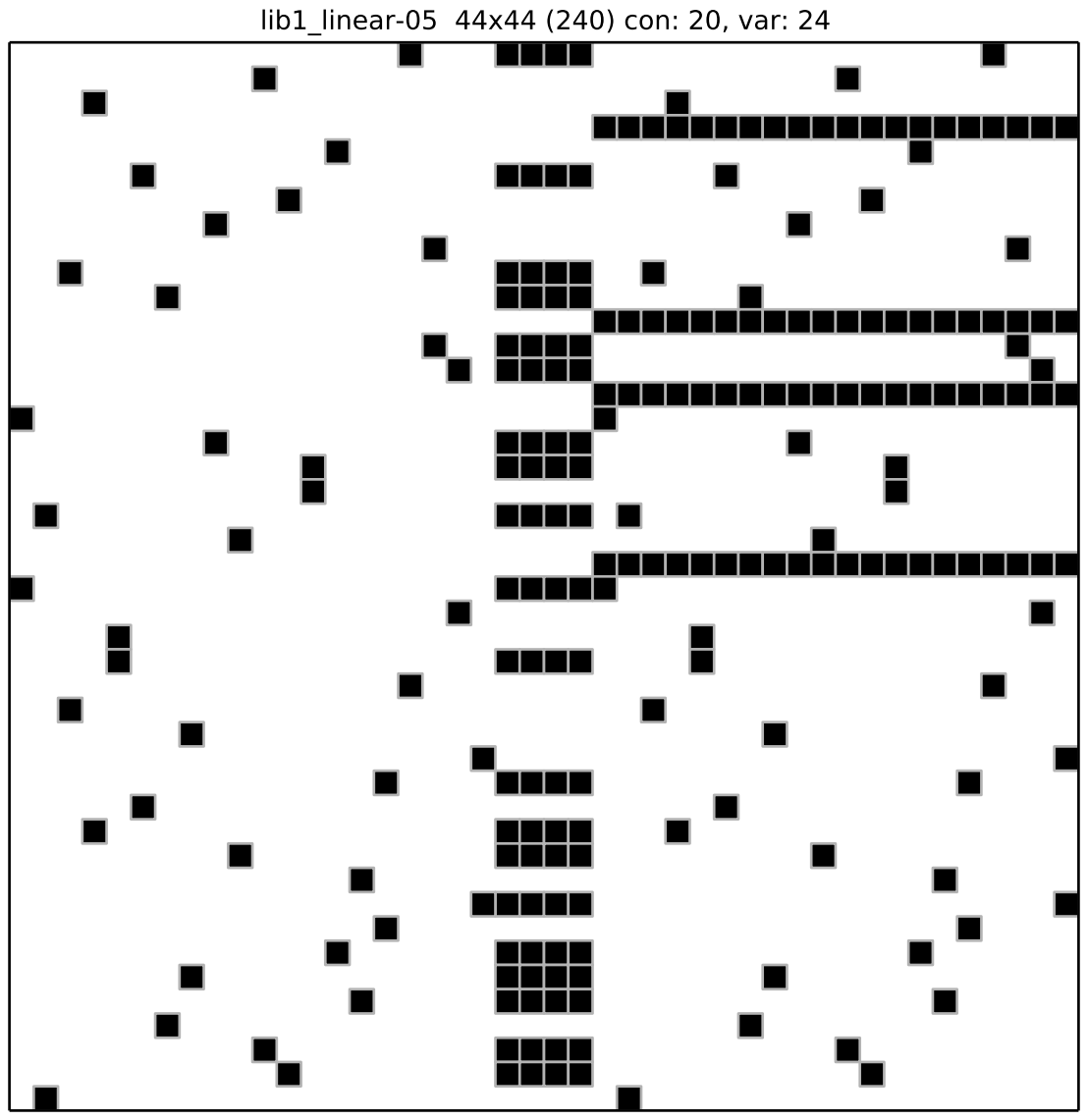
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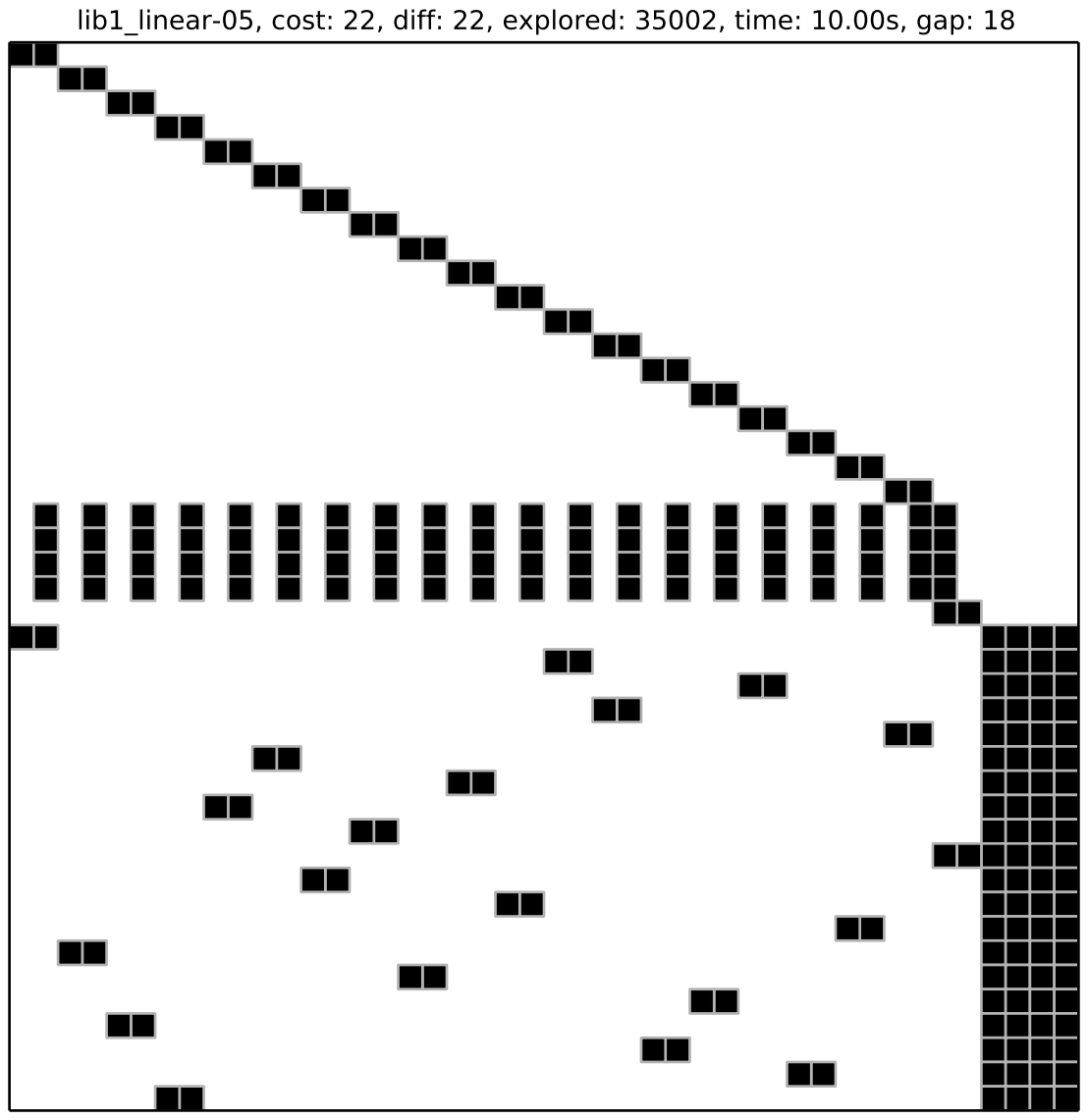
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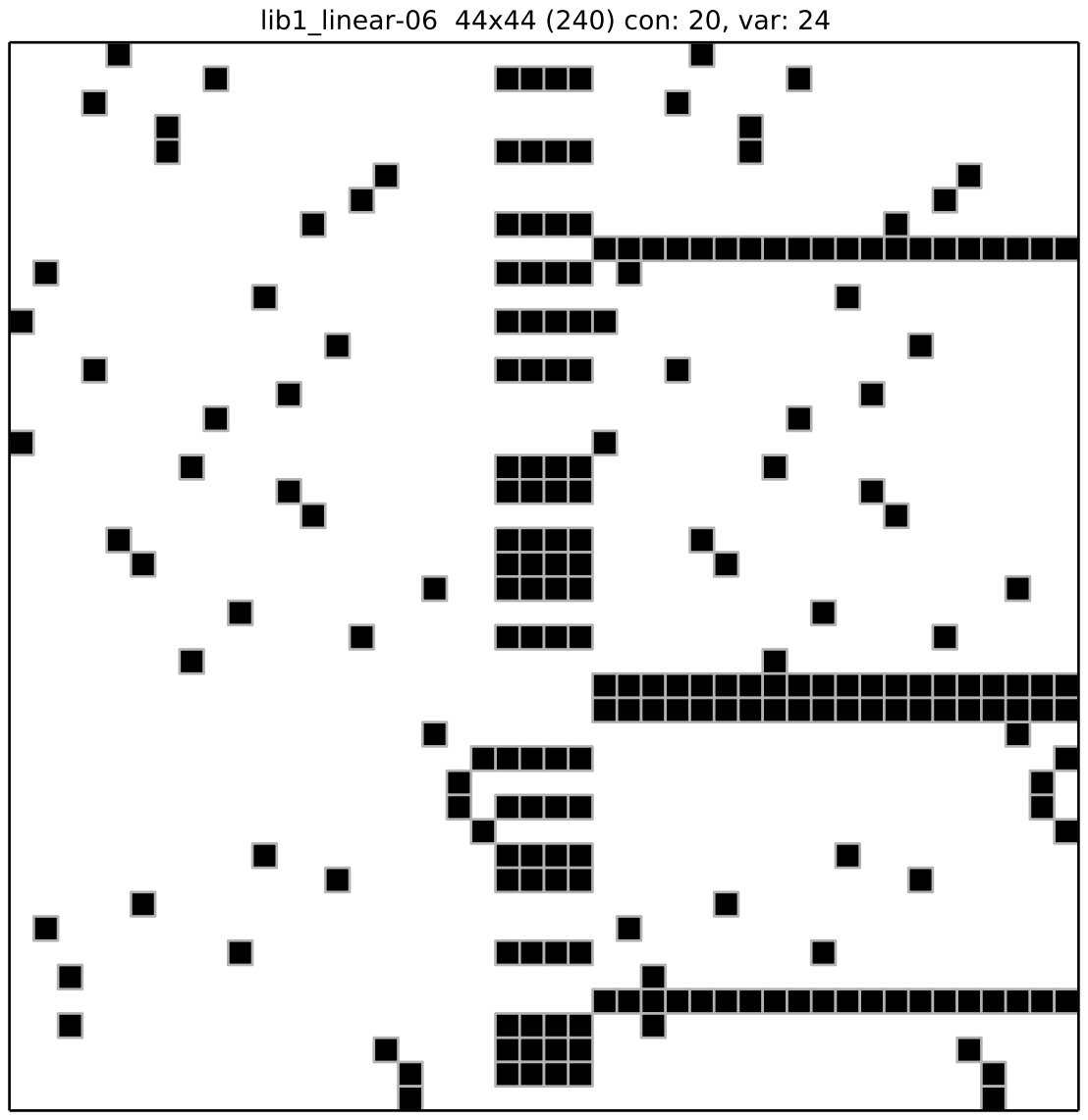
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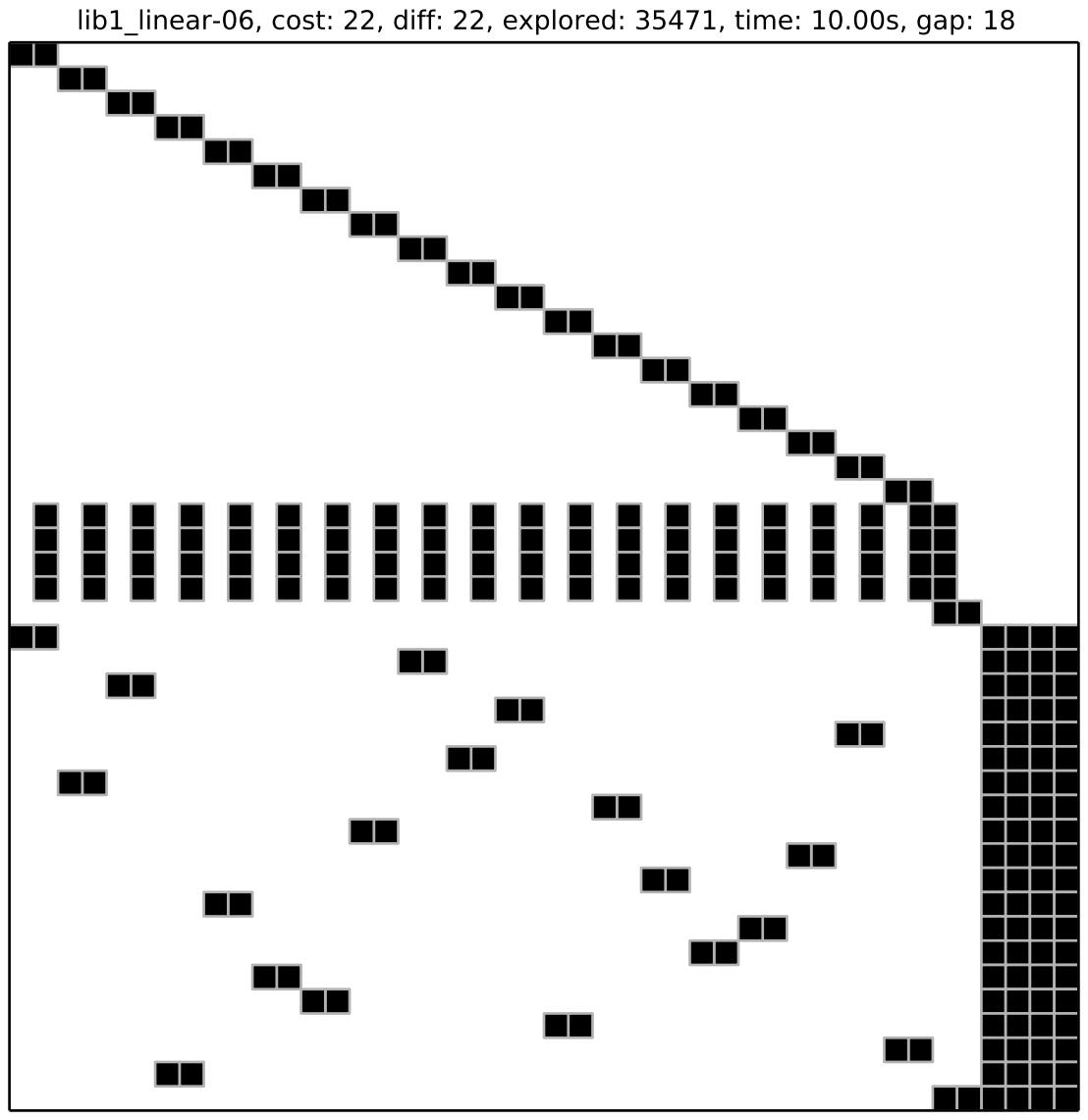
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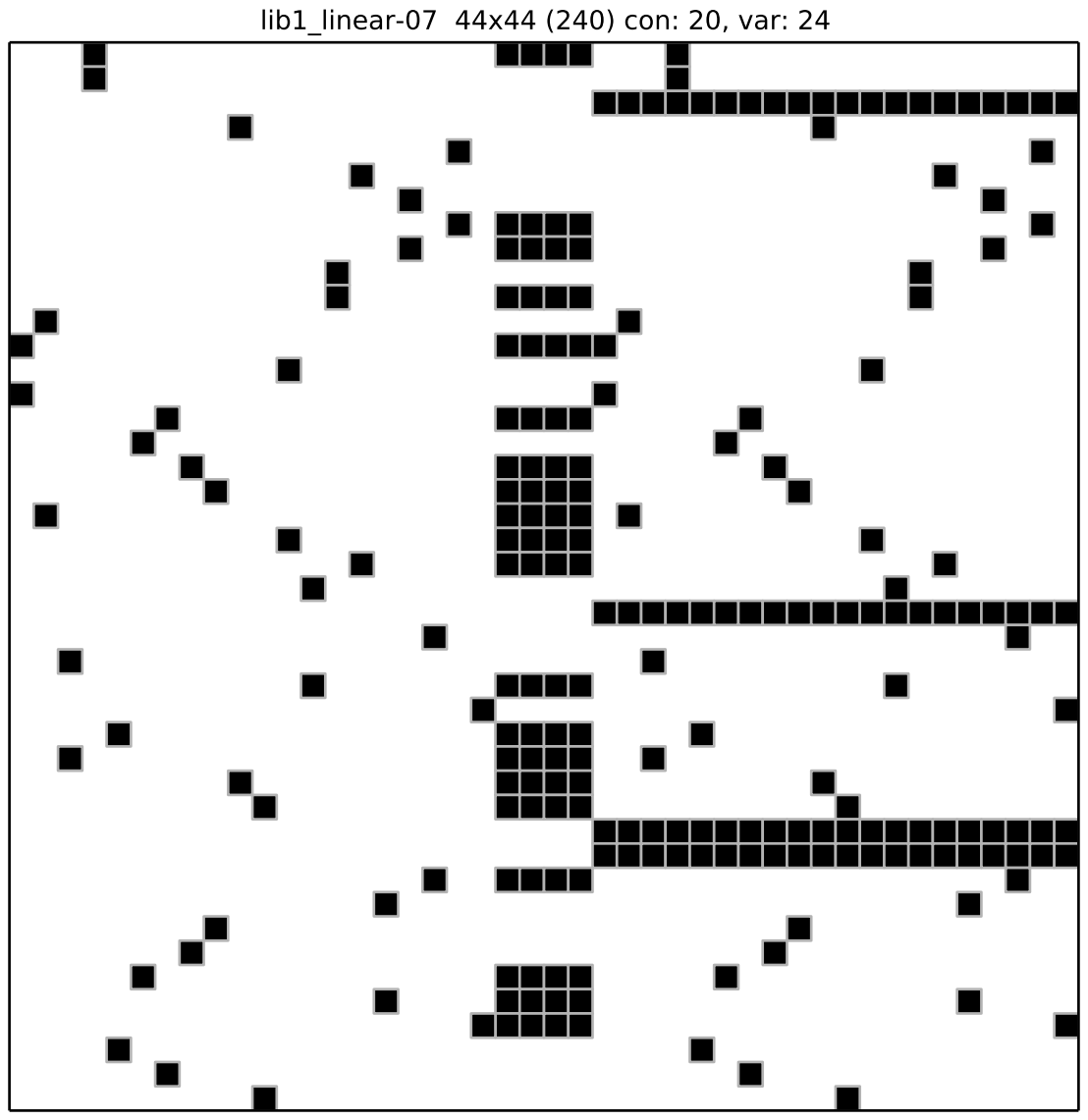
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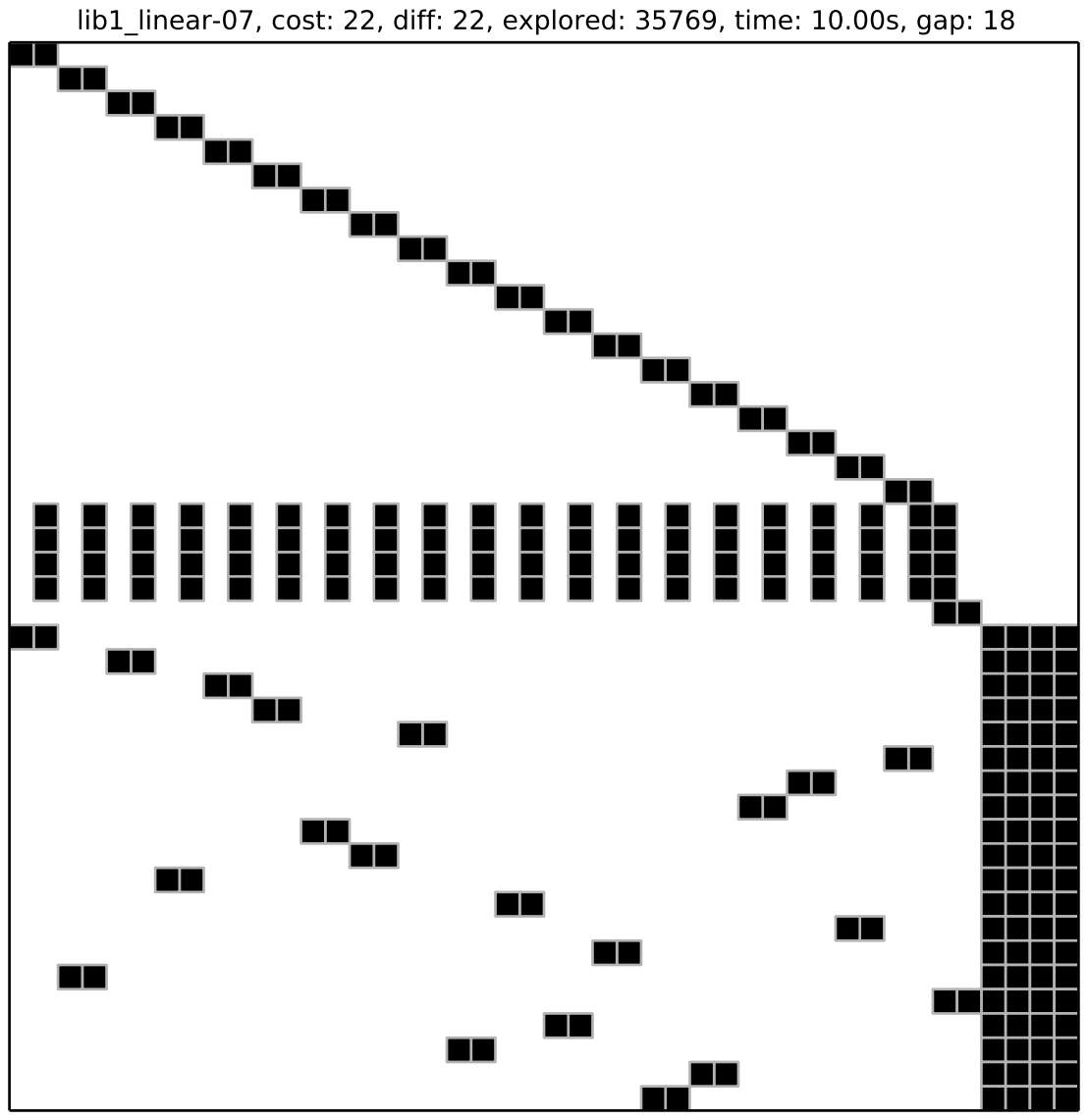
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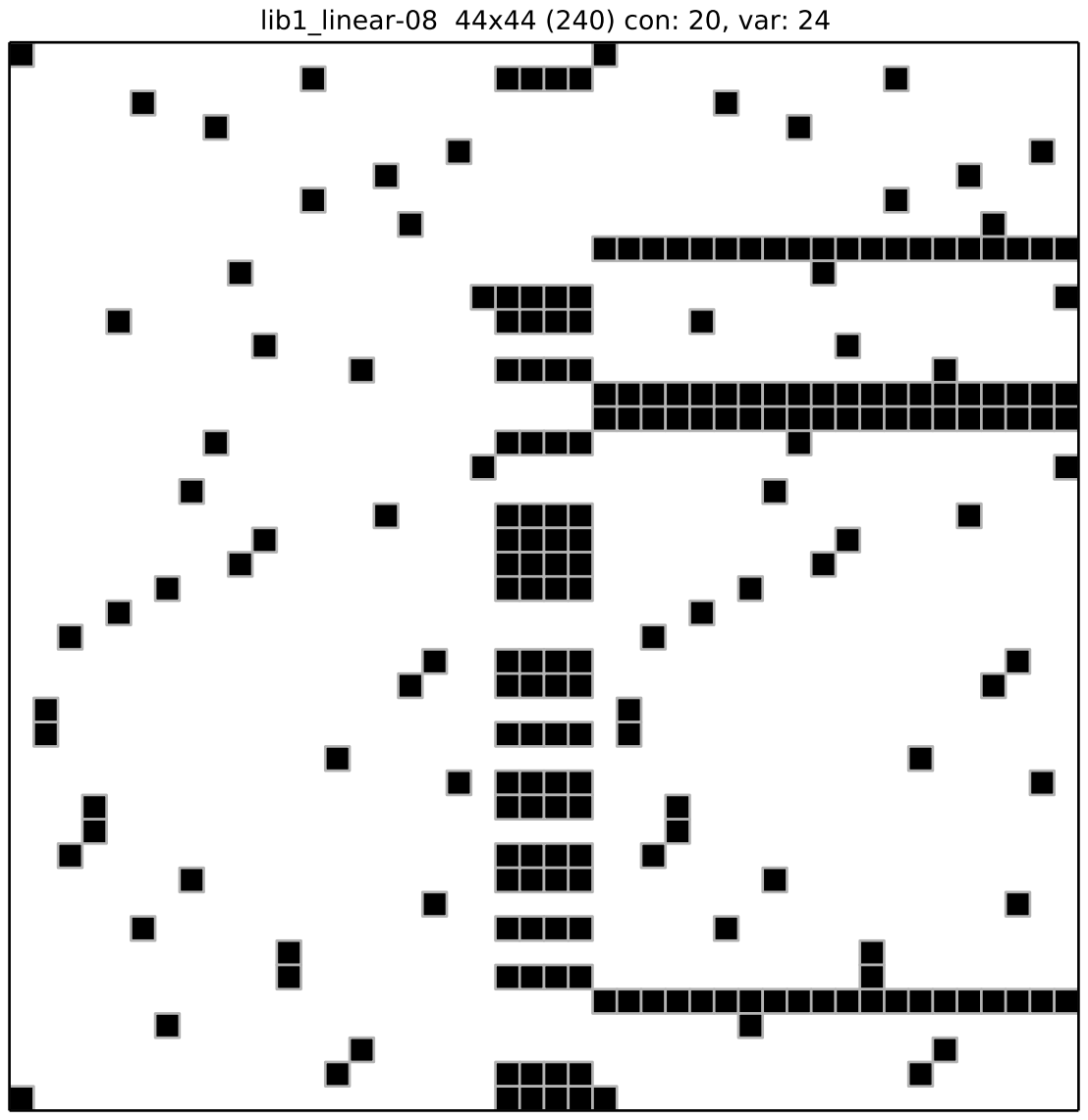
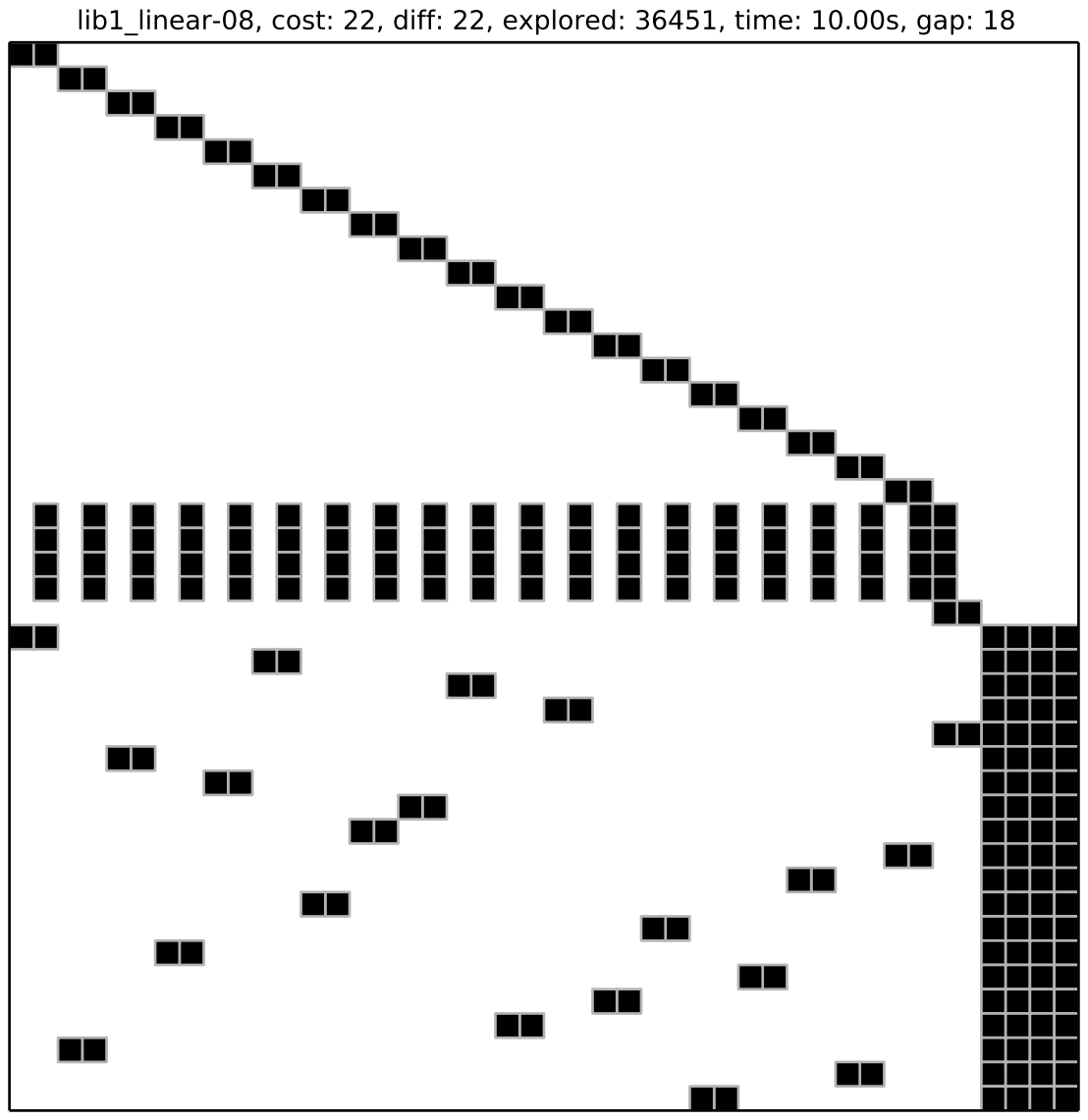

lib1_linear-08 44x44 (240) con: 20, var: 24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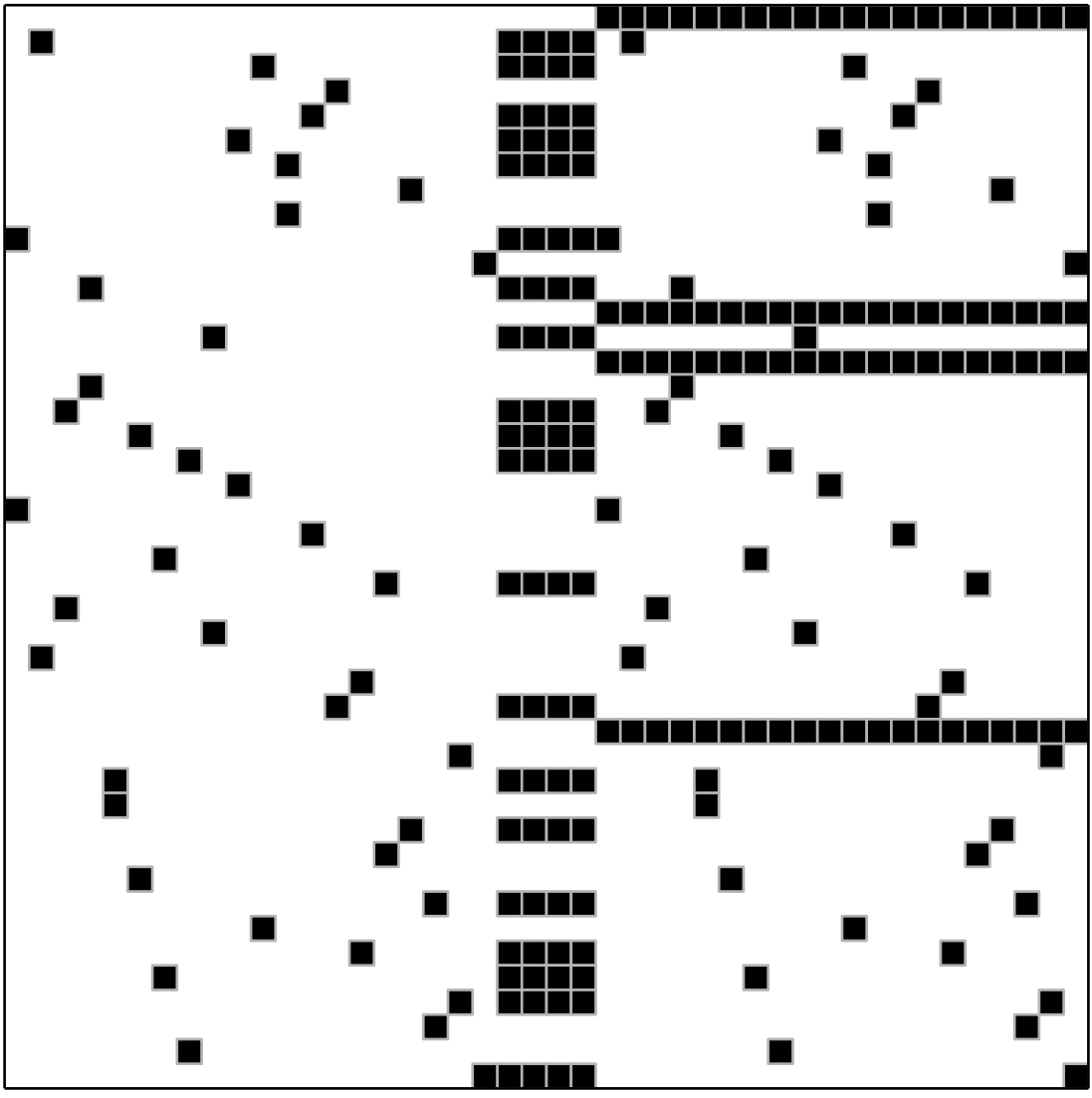
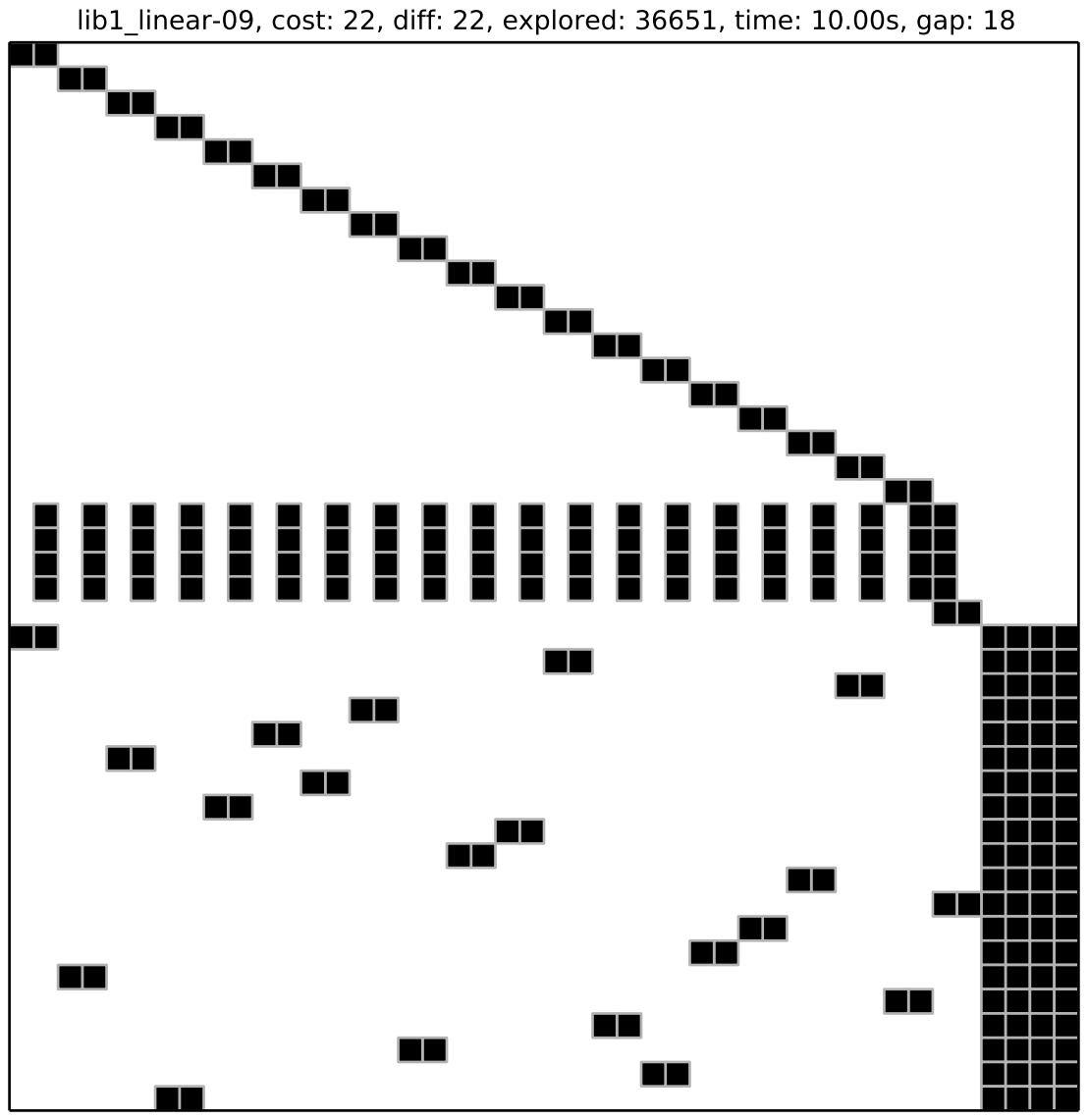
lib1_linear-09 44x44 (240) con: 20, var: 24

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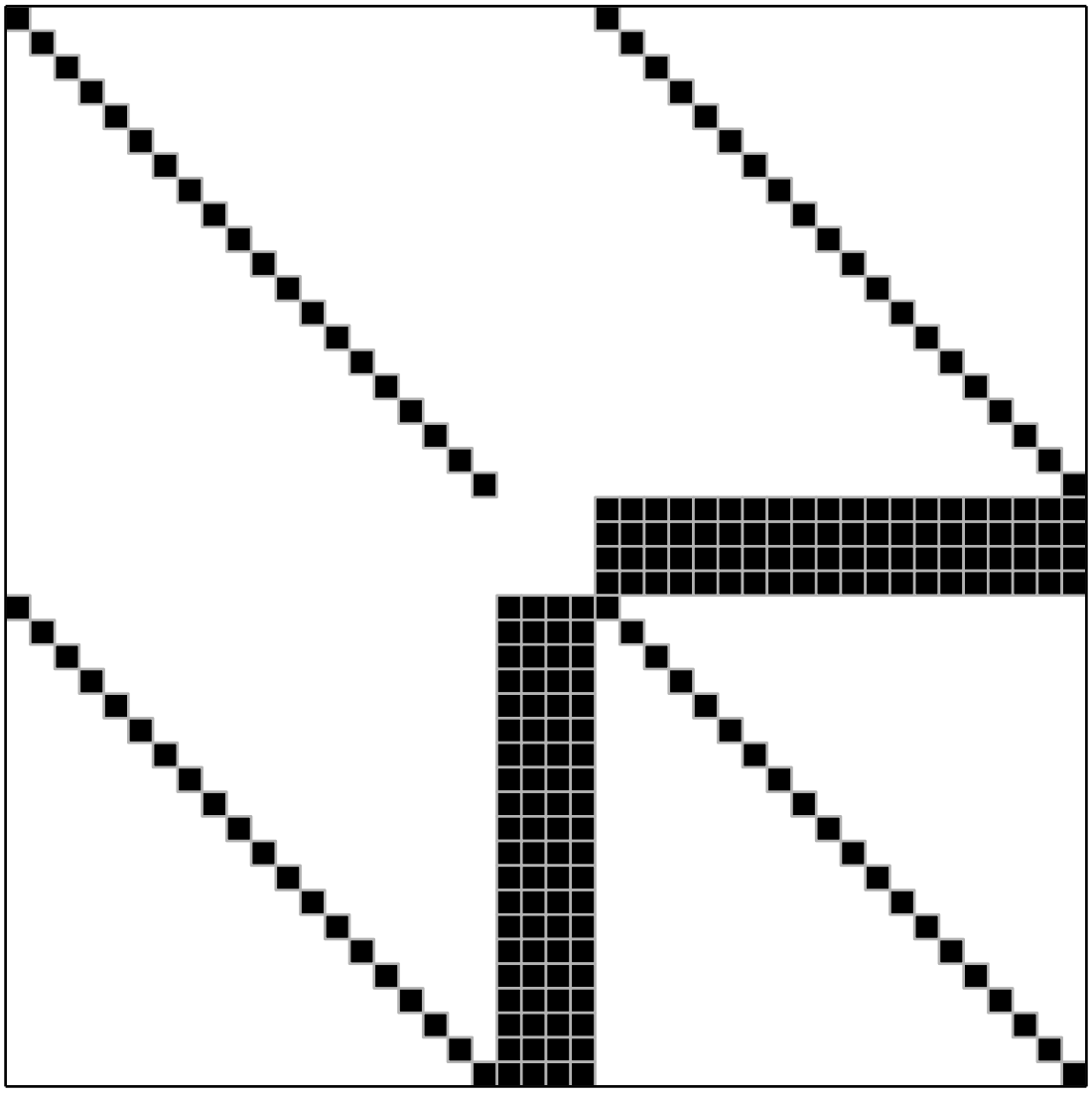
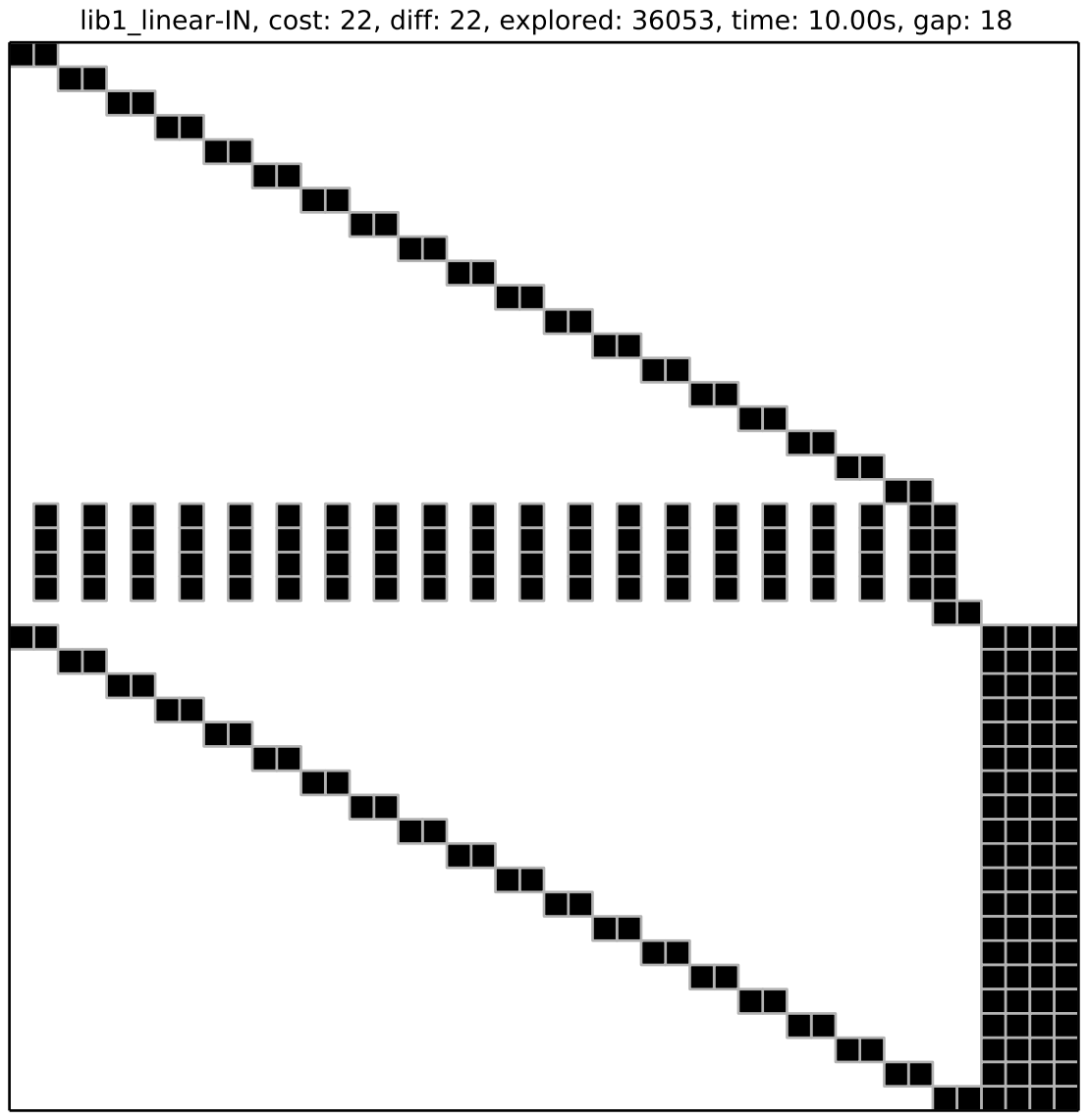

lib1_linear-IN 44x44 (240) con: 20, var: 24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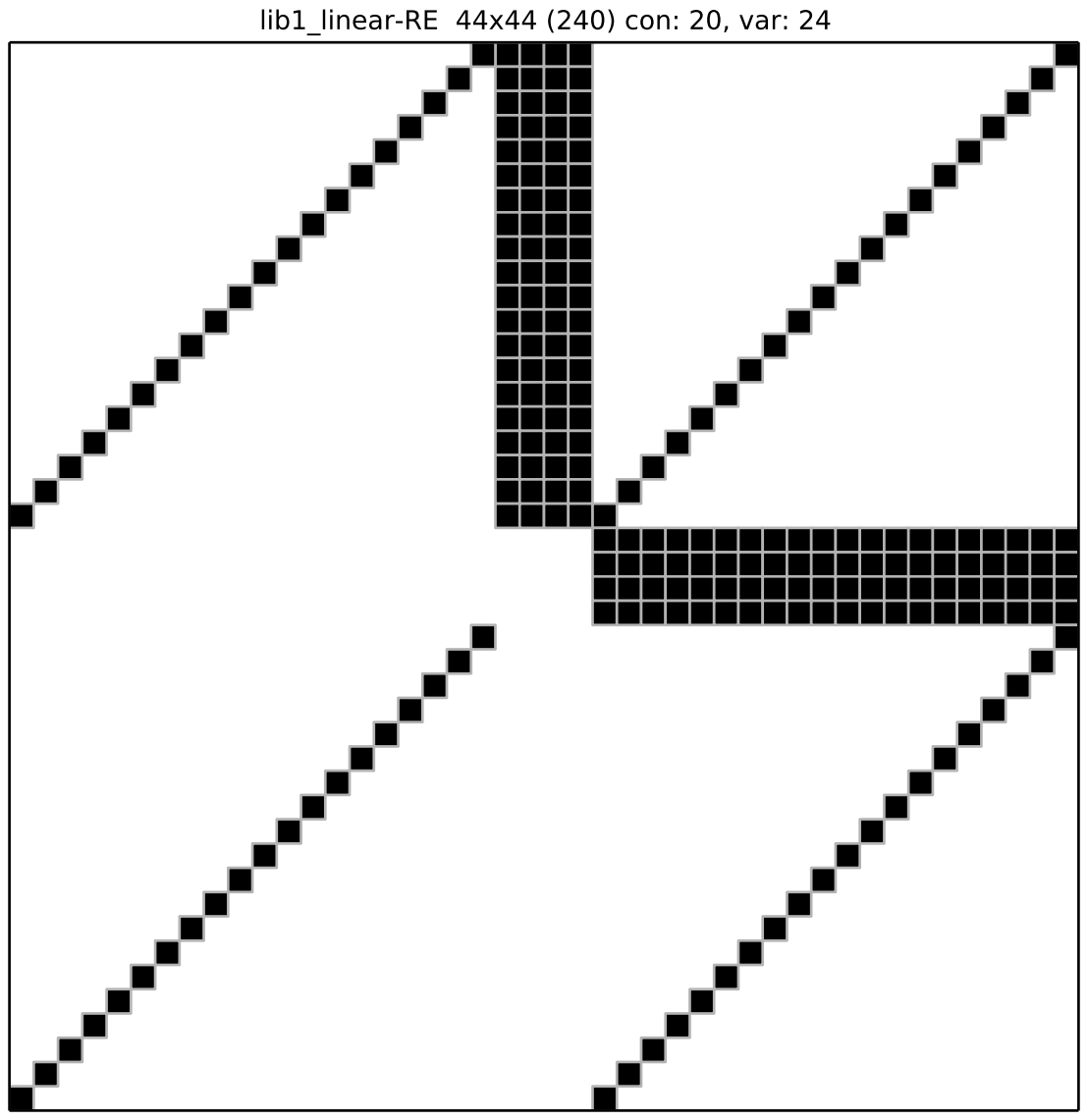
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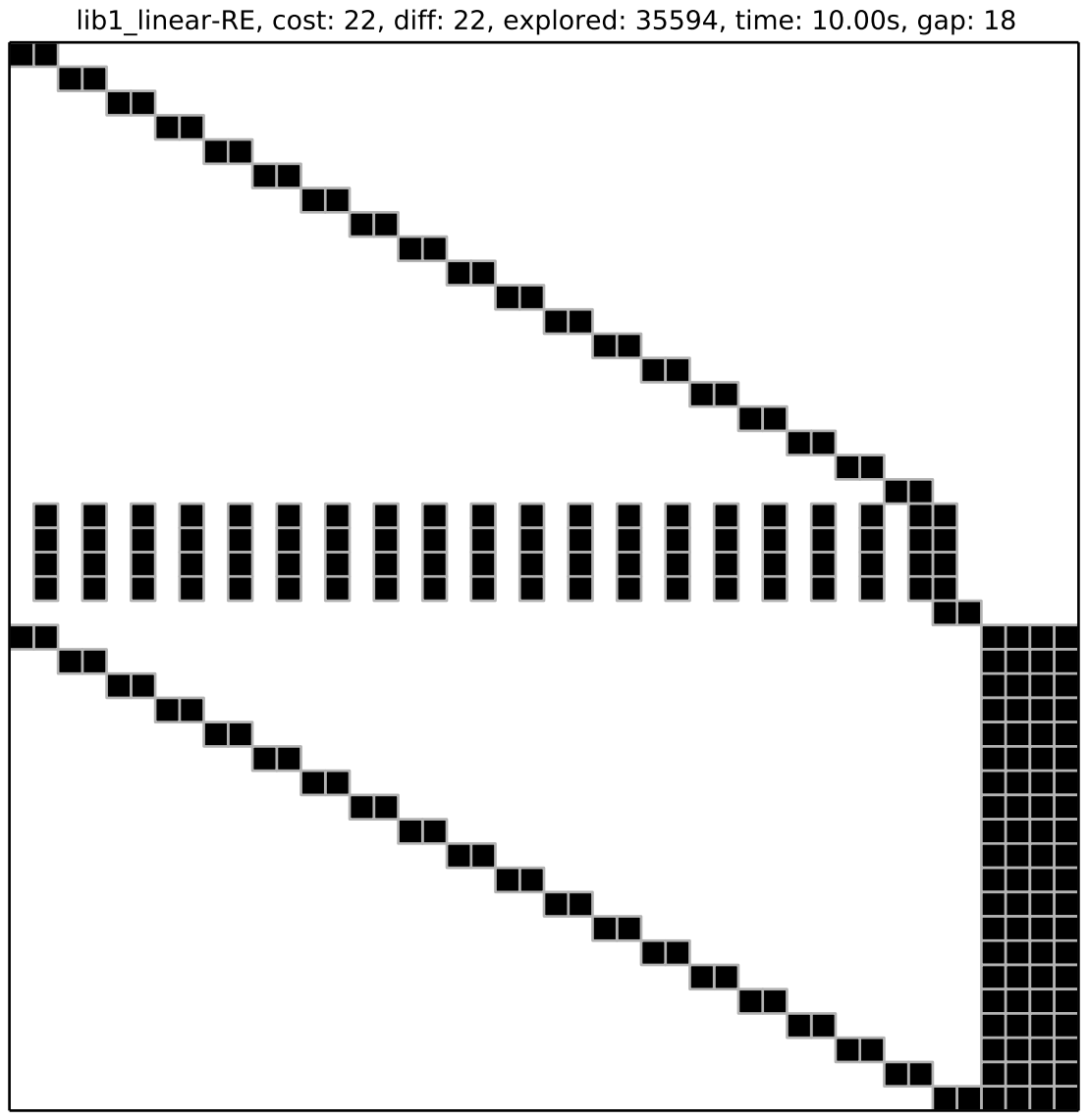
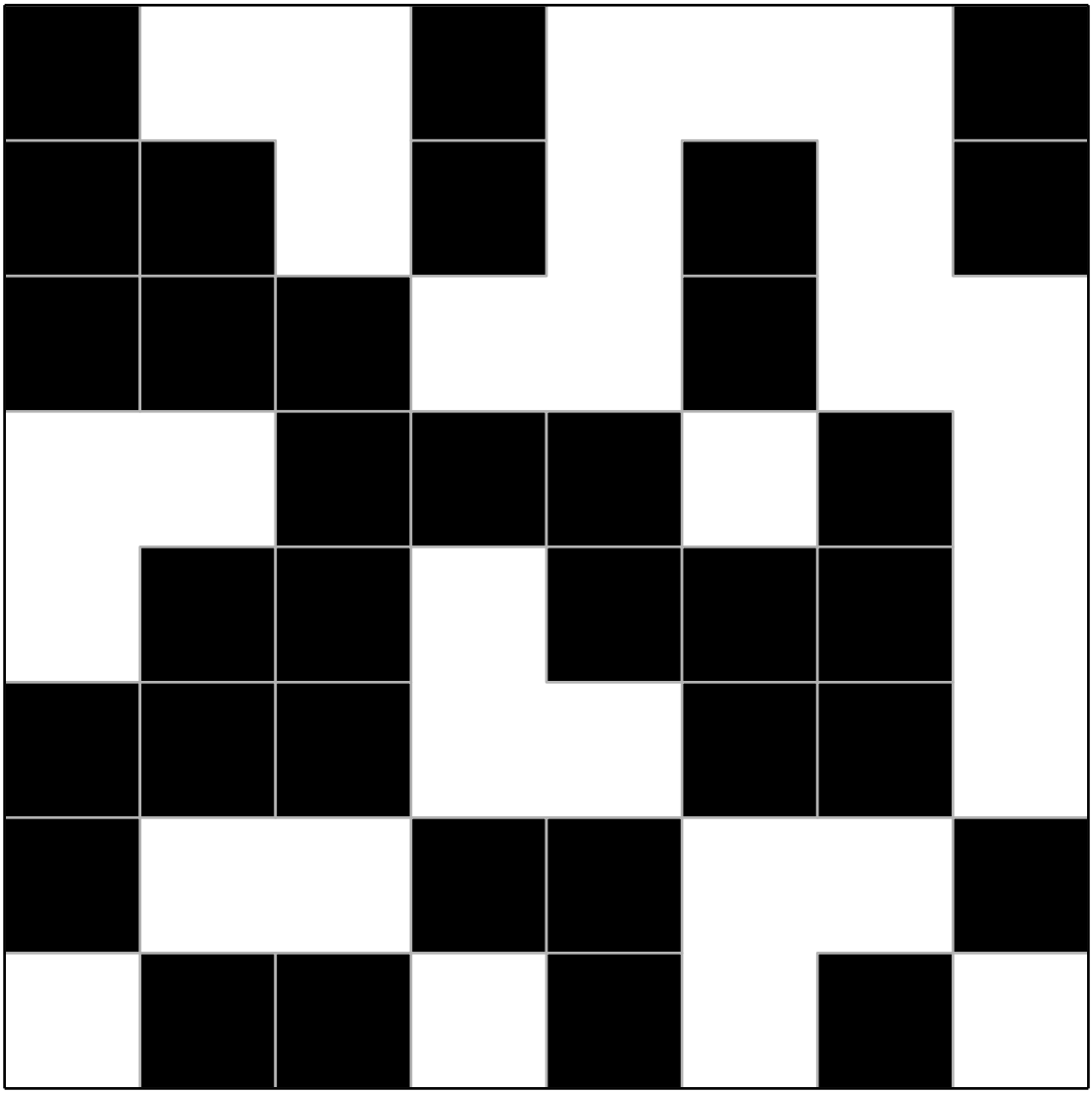
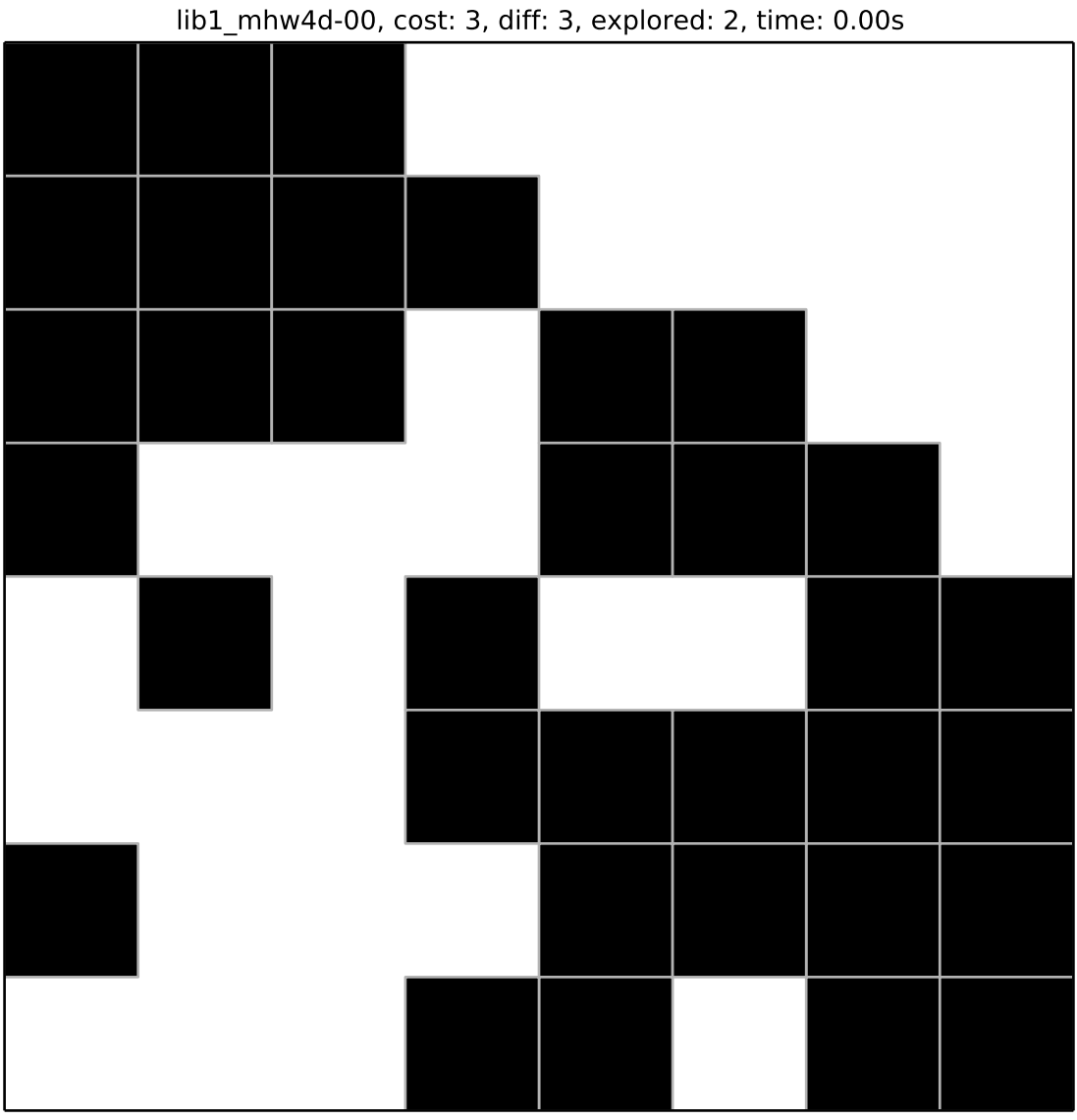

lib1_linear-RE, cost: 22, diff: 22, explored: 35594, time: 10.00s, gap: 18

lib1_mhw4d-00 8x8 (34) con: 3, var: 5

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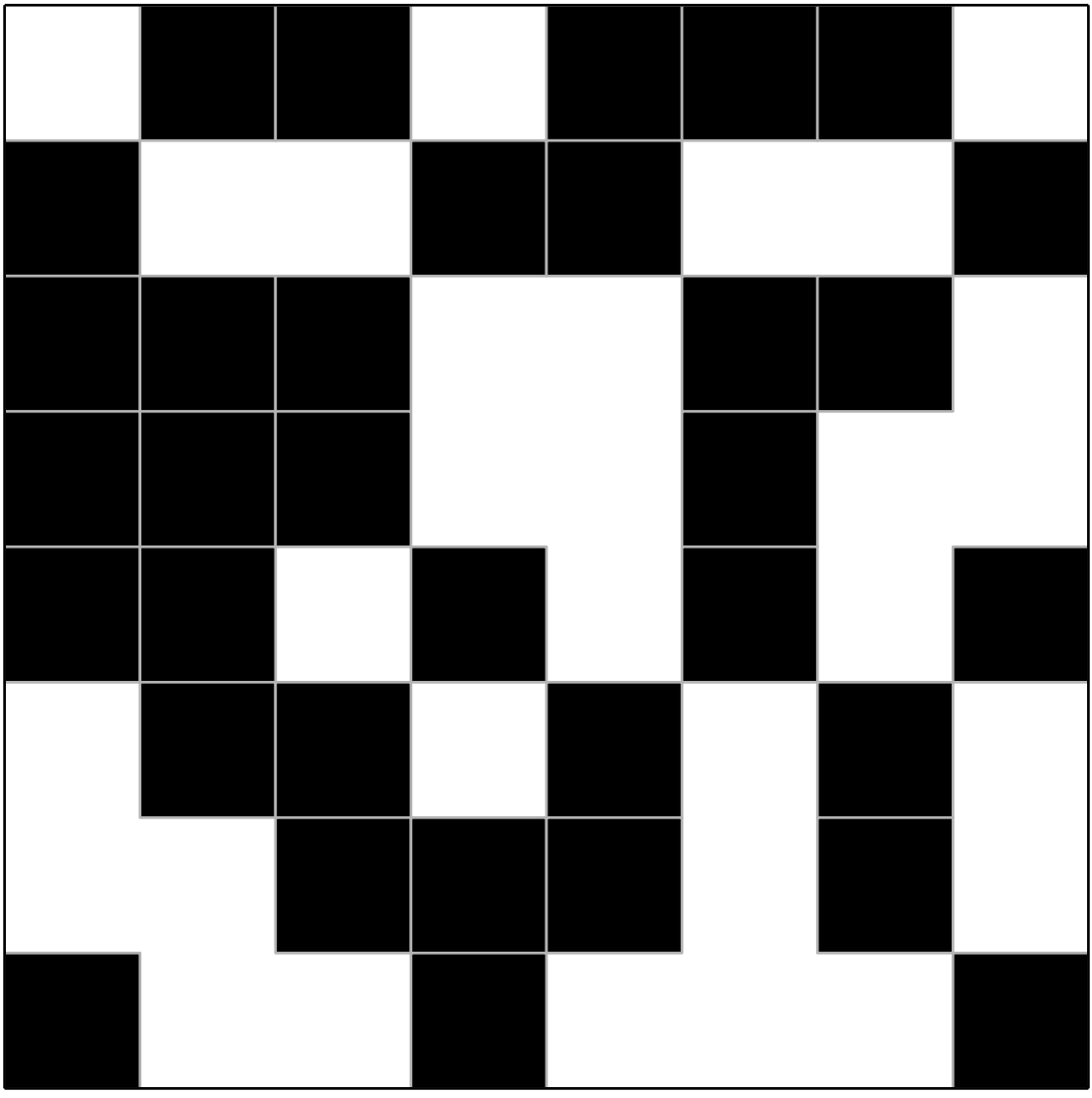
lib1_mhw4d-01 8x8 (34) con: 3, var: 5



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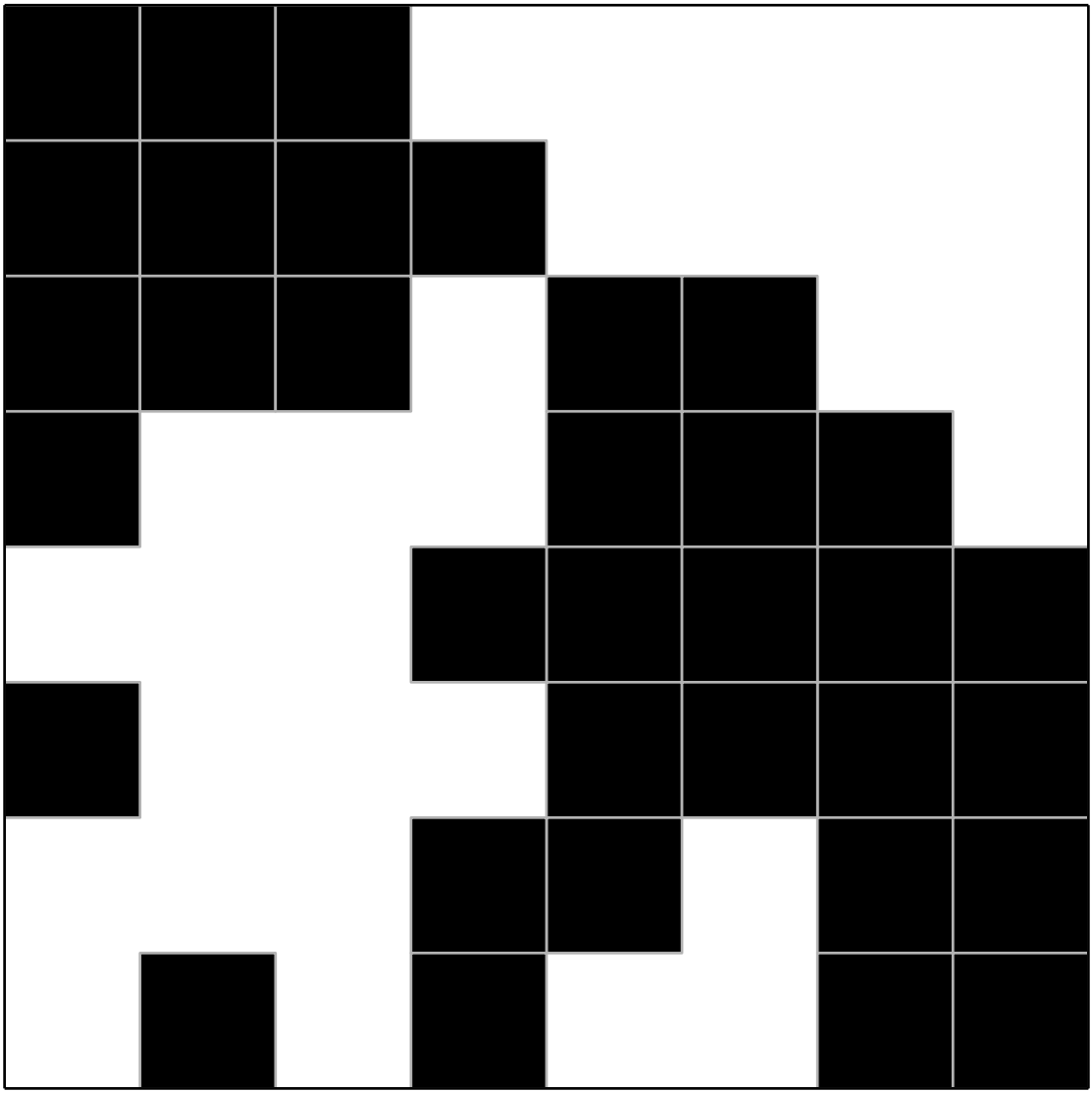
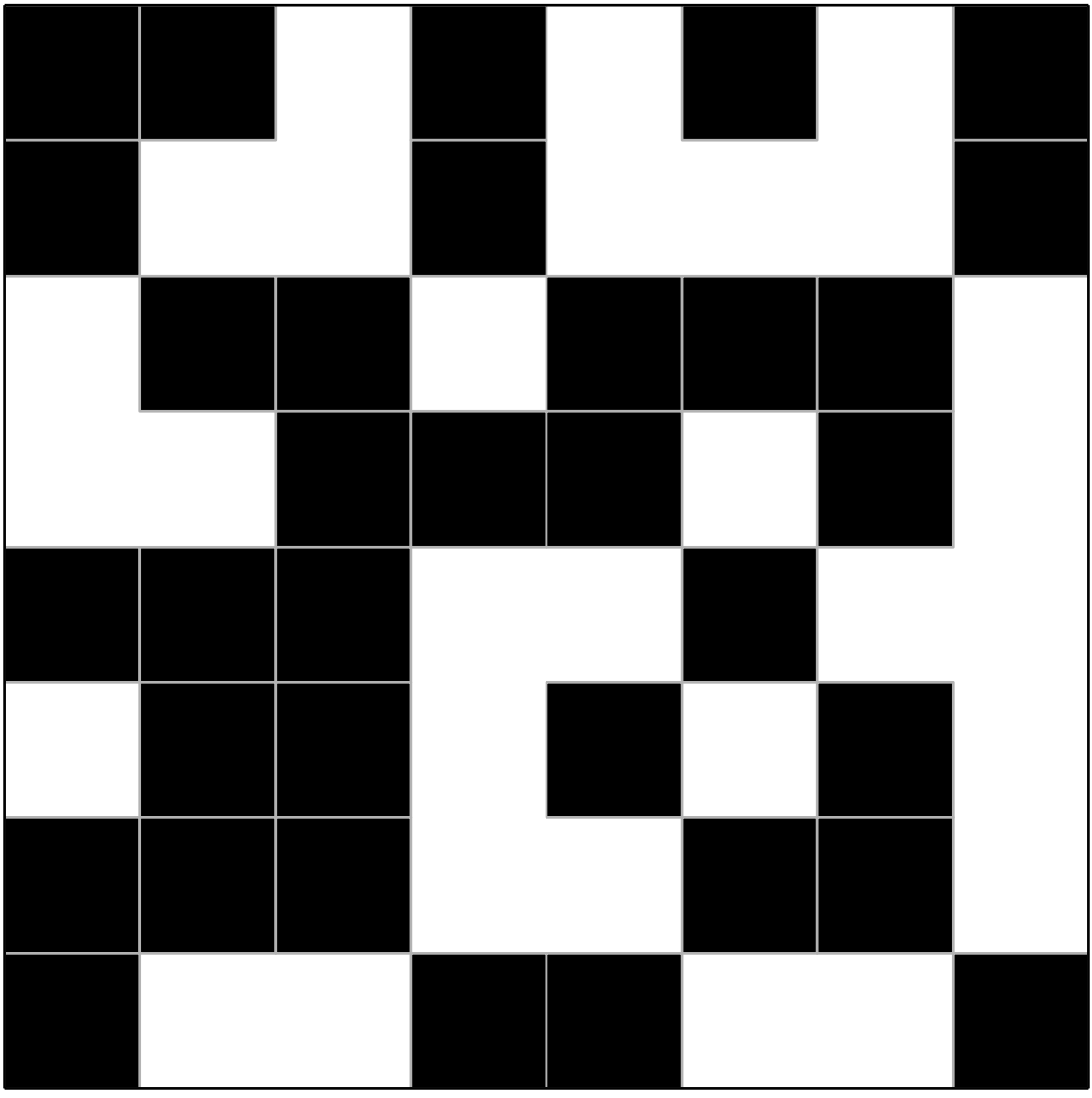
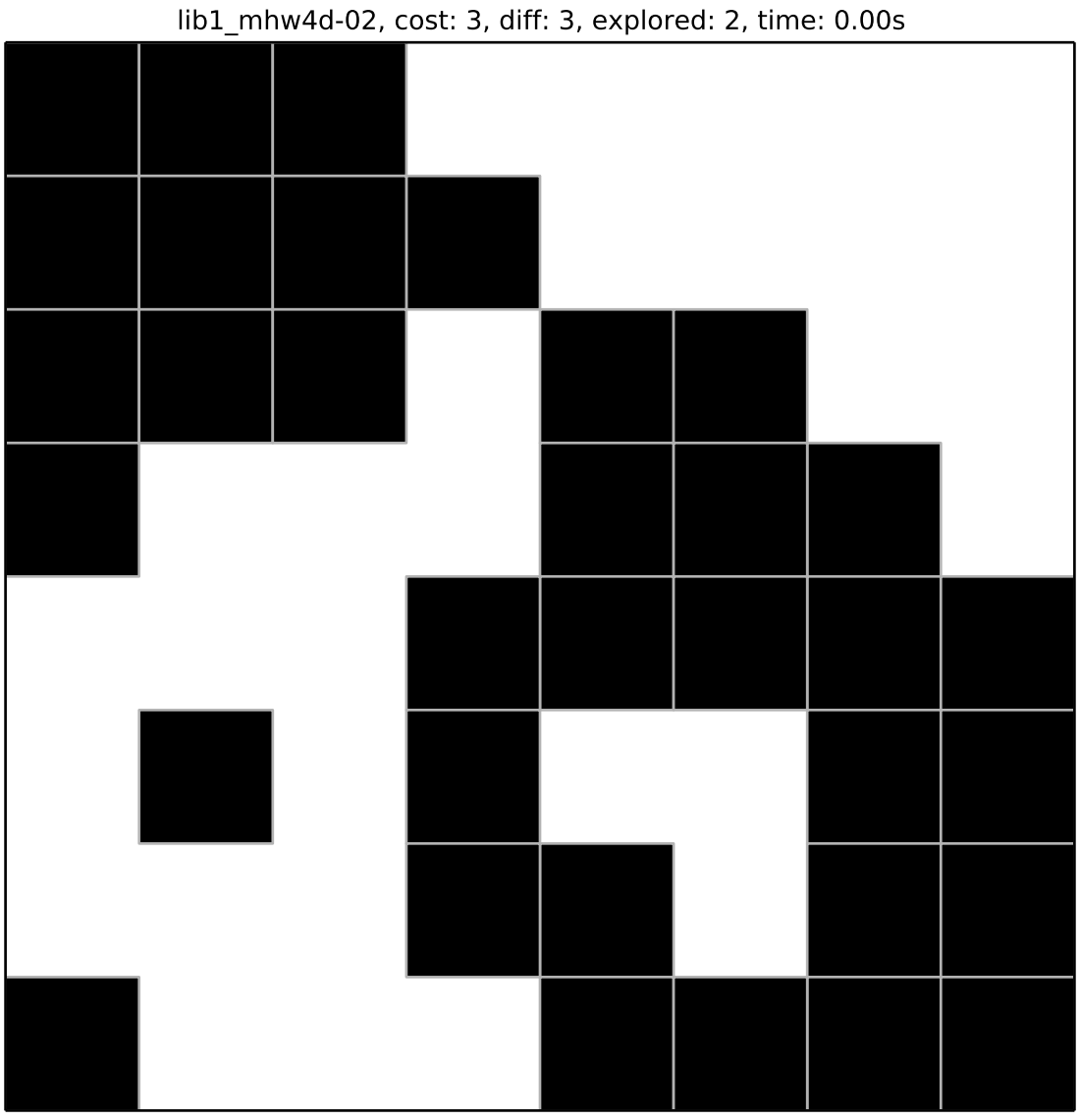


lib1_mhw4d-02 8x8 (34) con: 3, var: 5

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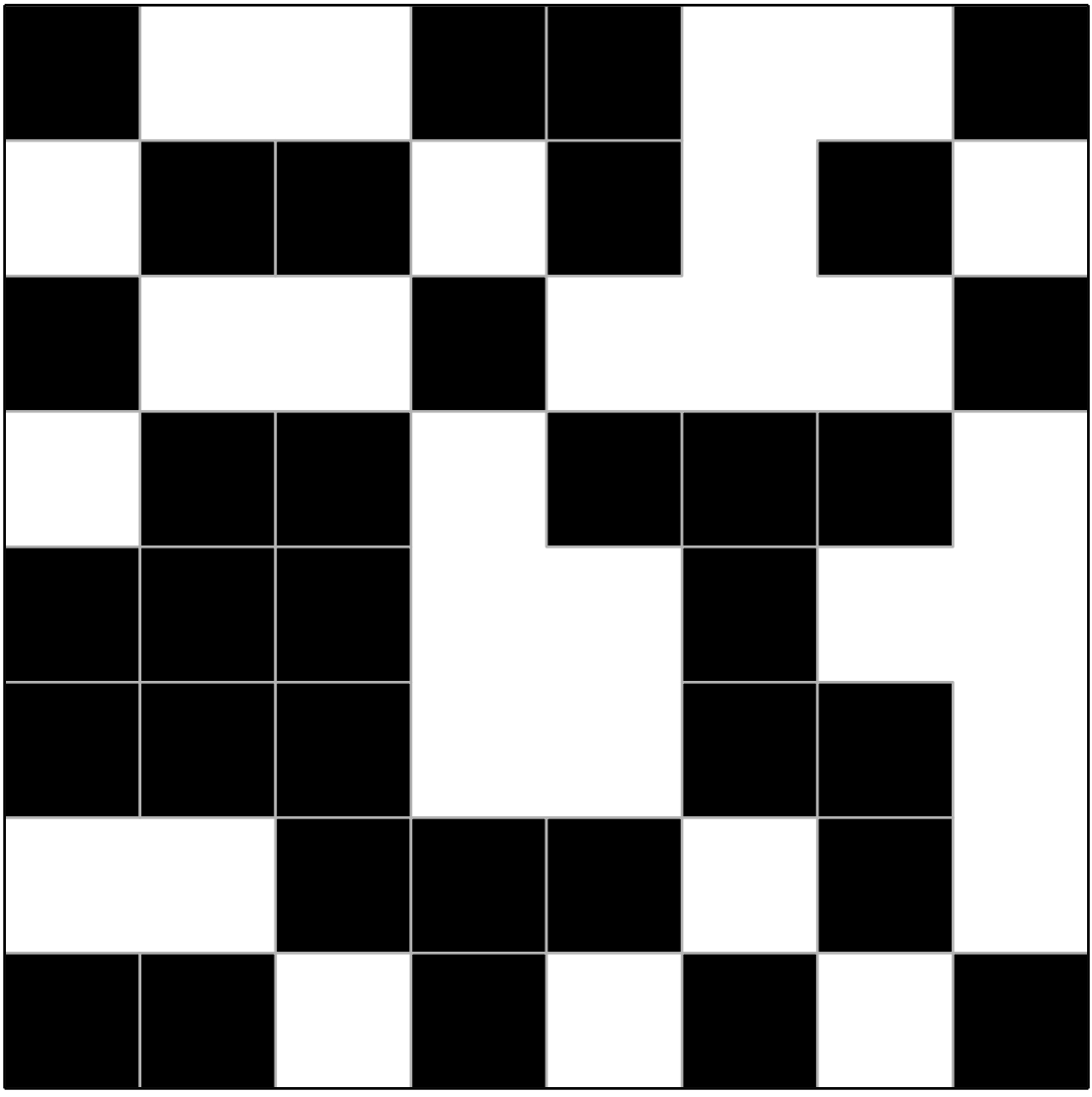
lib1_mhw4d-03 8x8 (34) con: 3, var: 5



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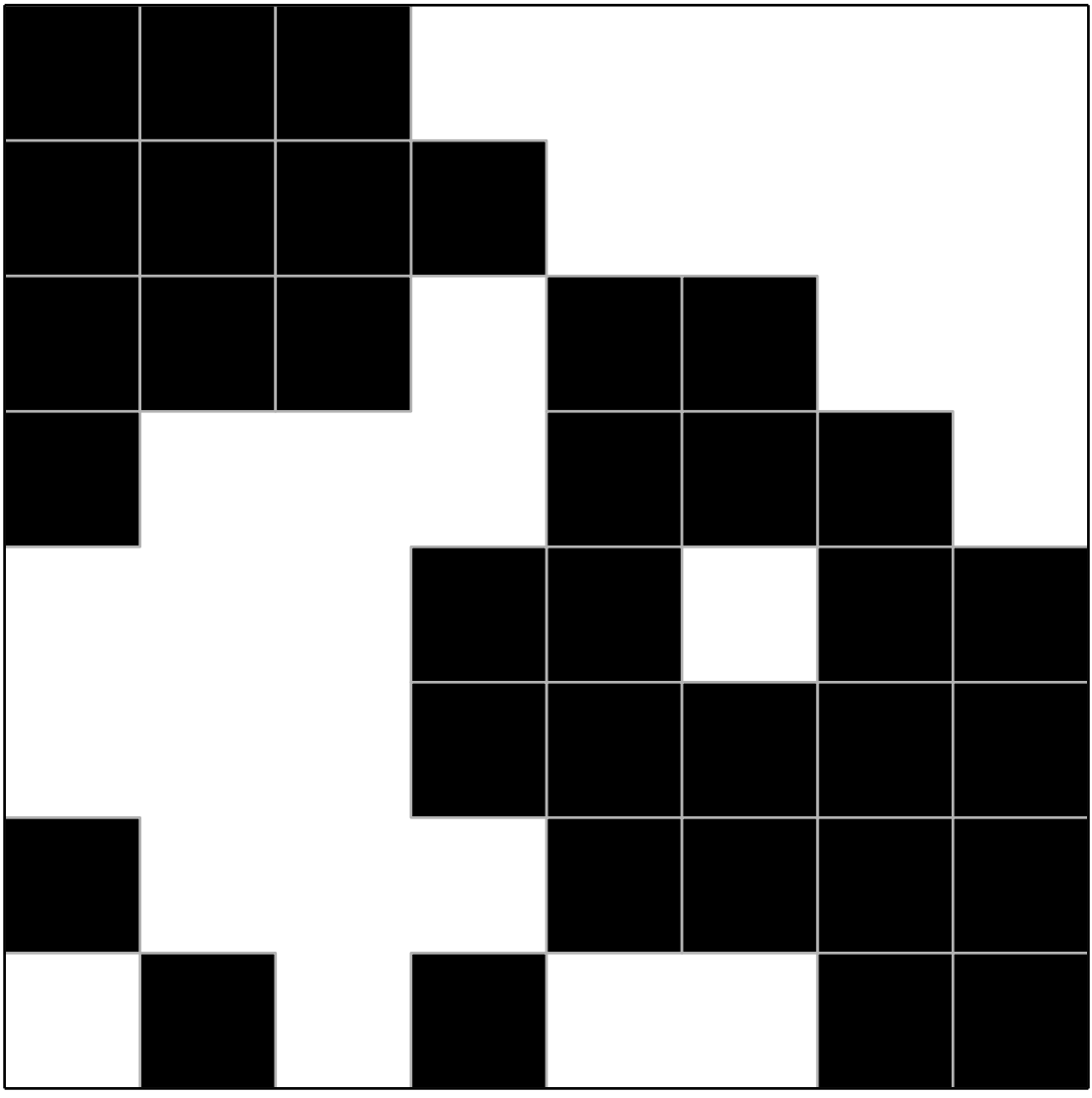
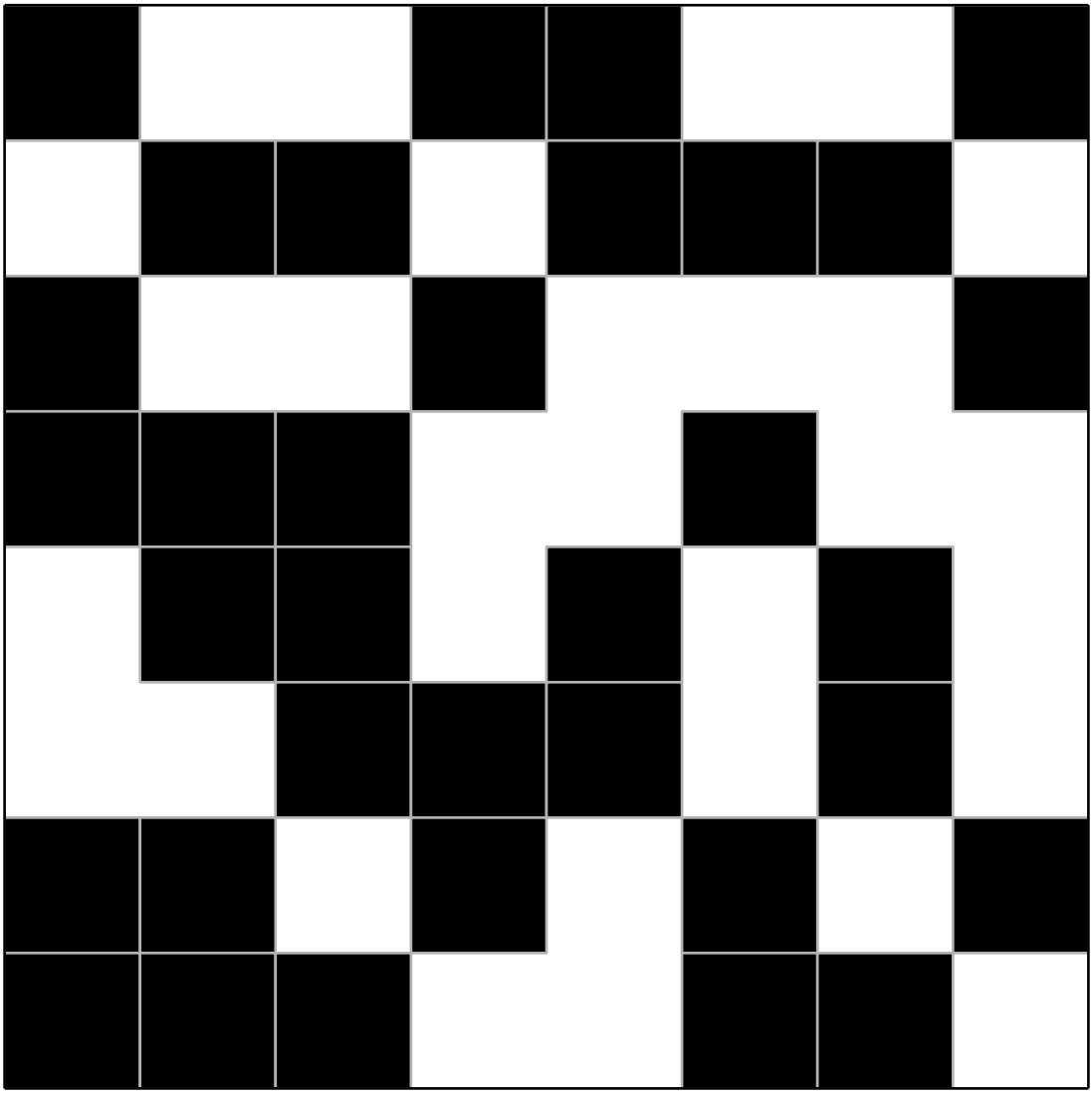


lib1_mhw4d-04 8x8 (34) con: 3, var: 5



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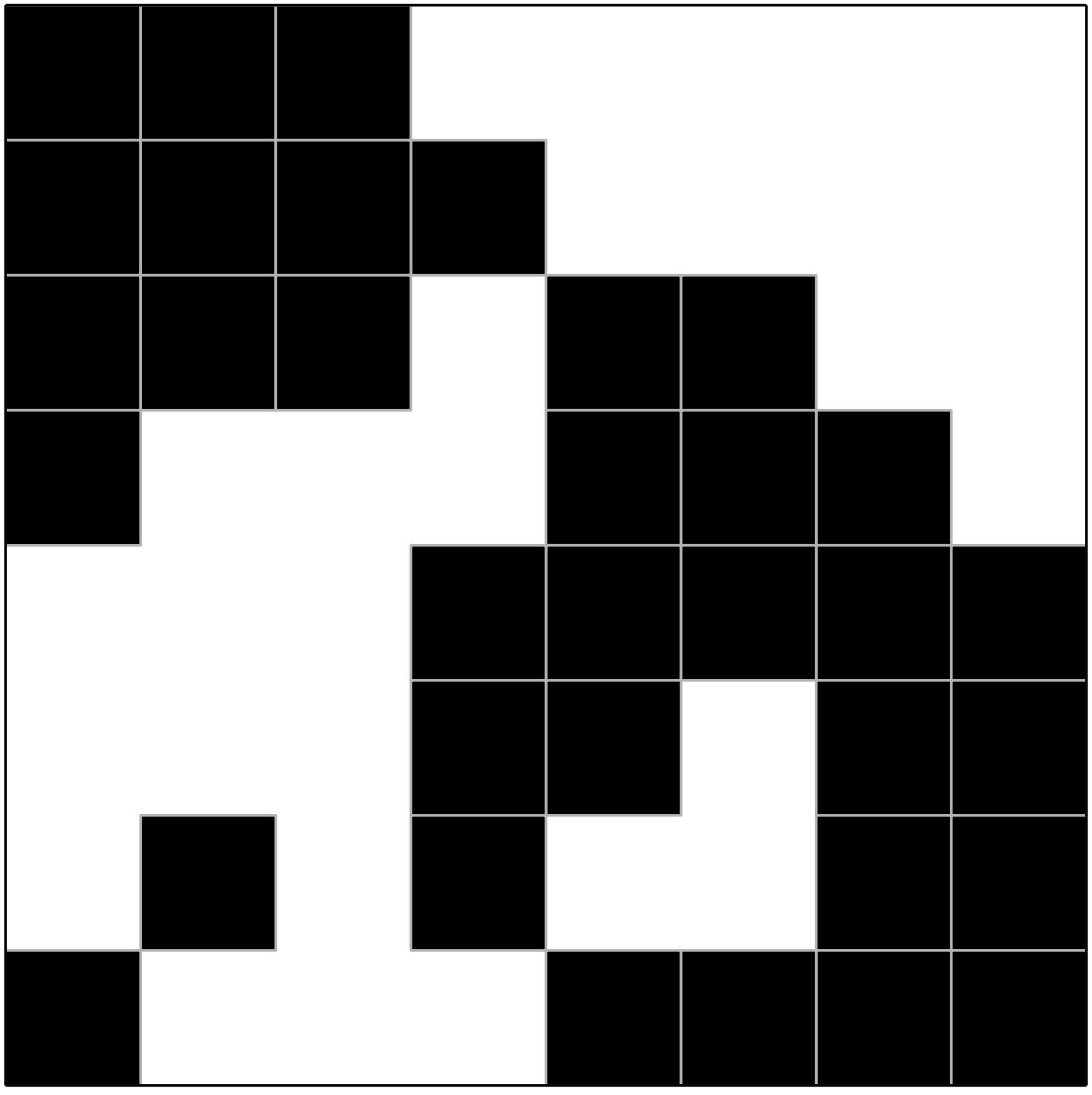

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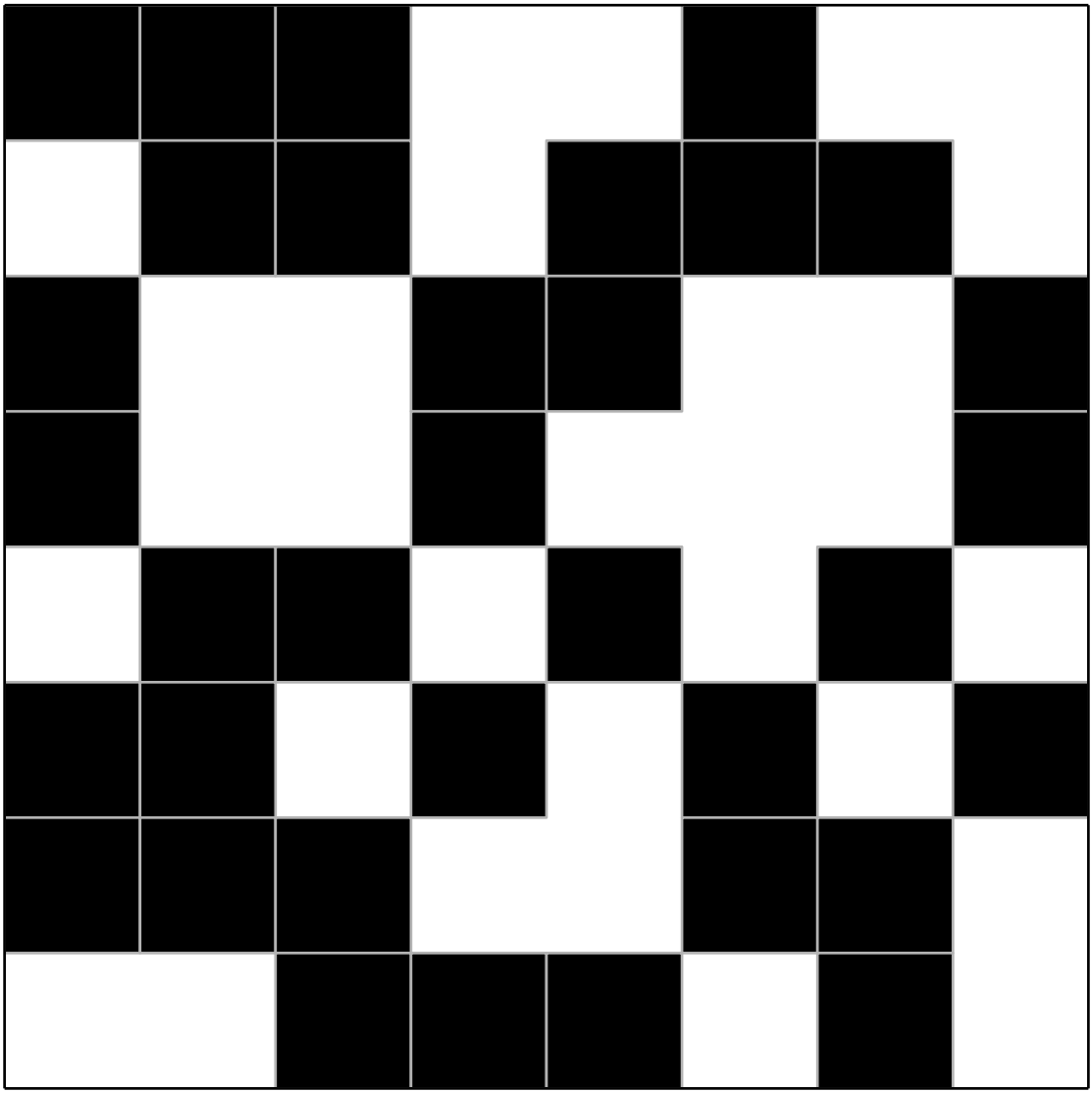

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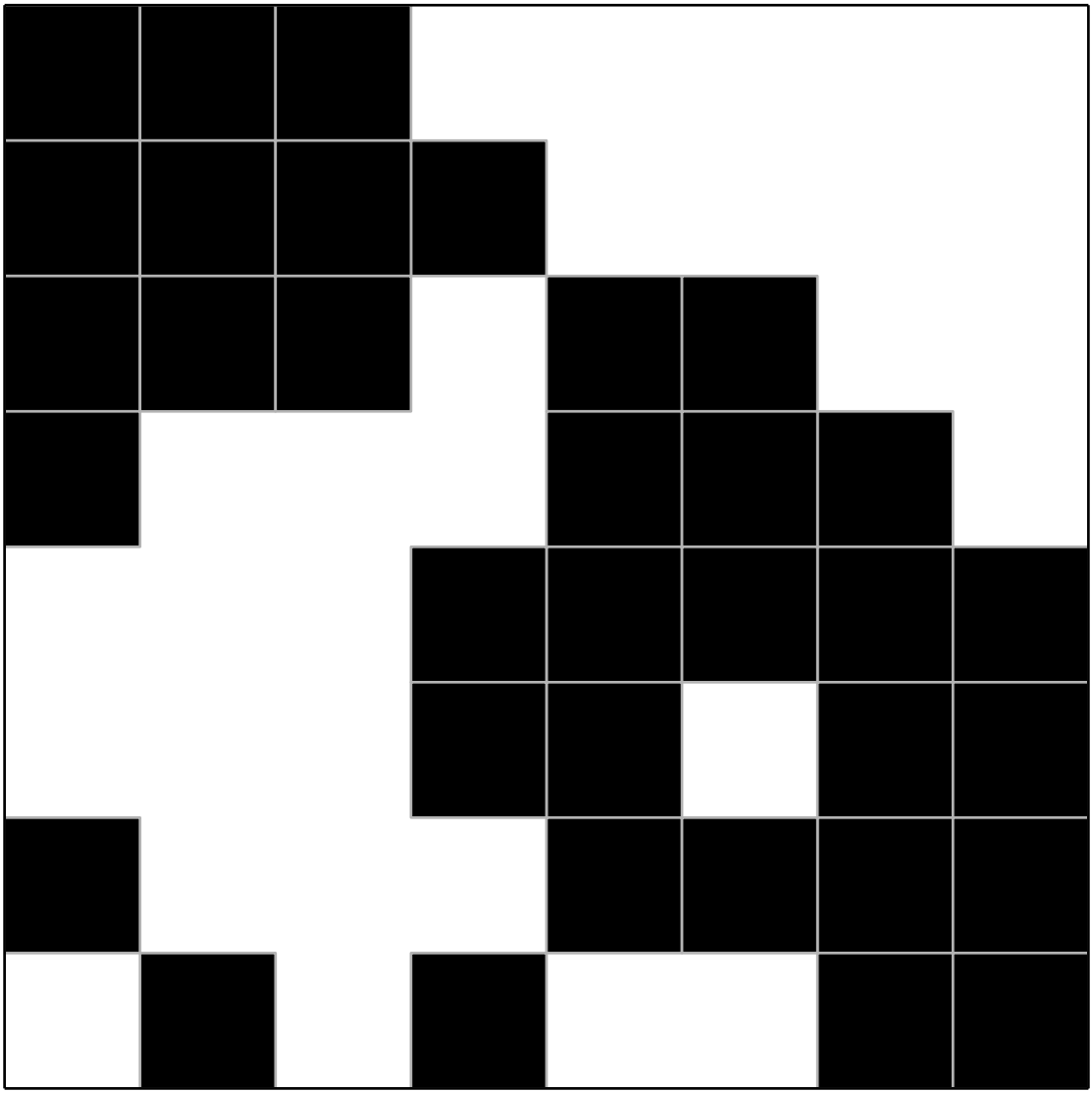

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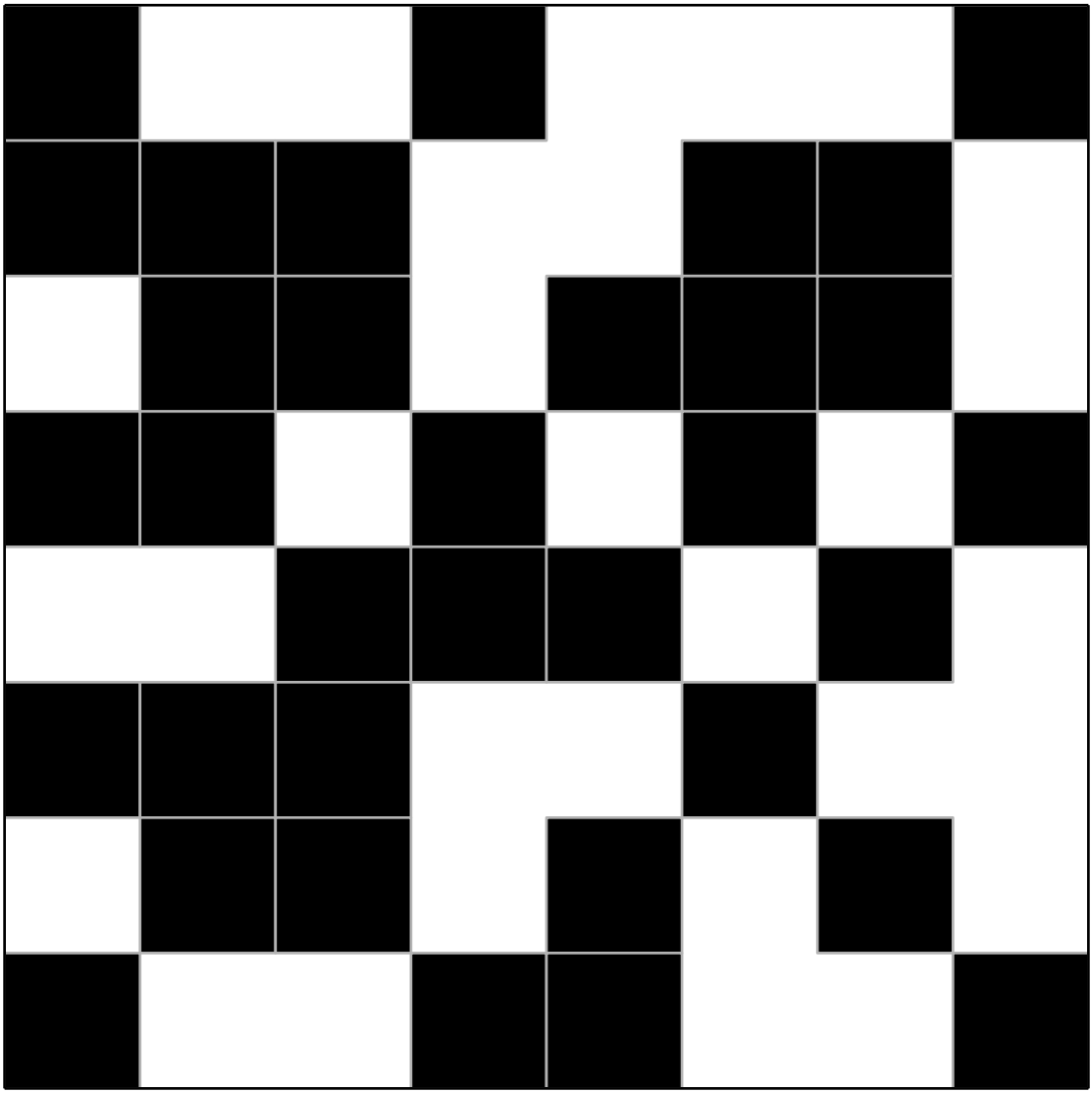

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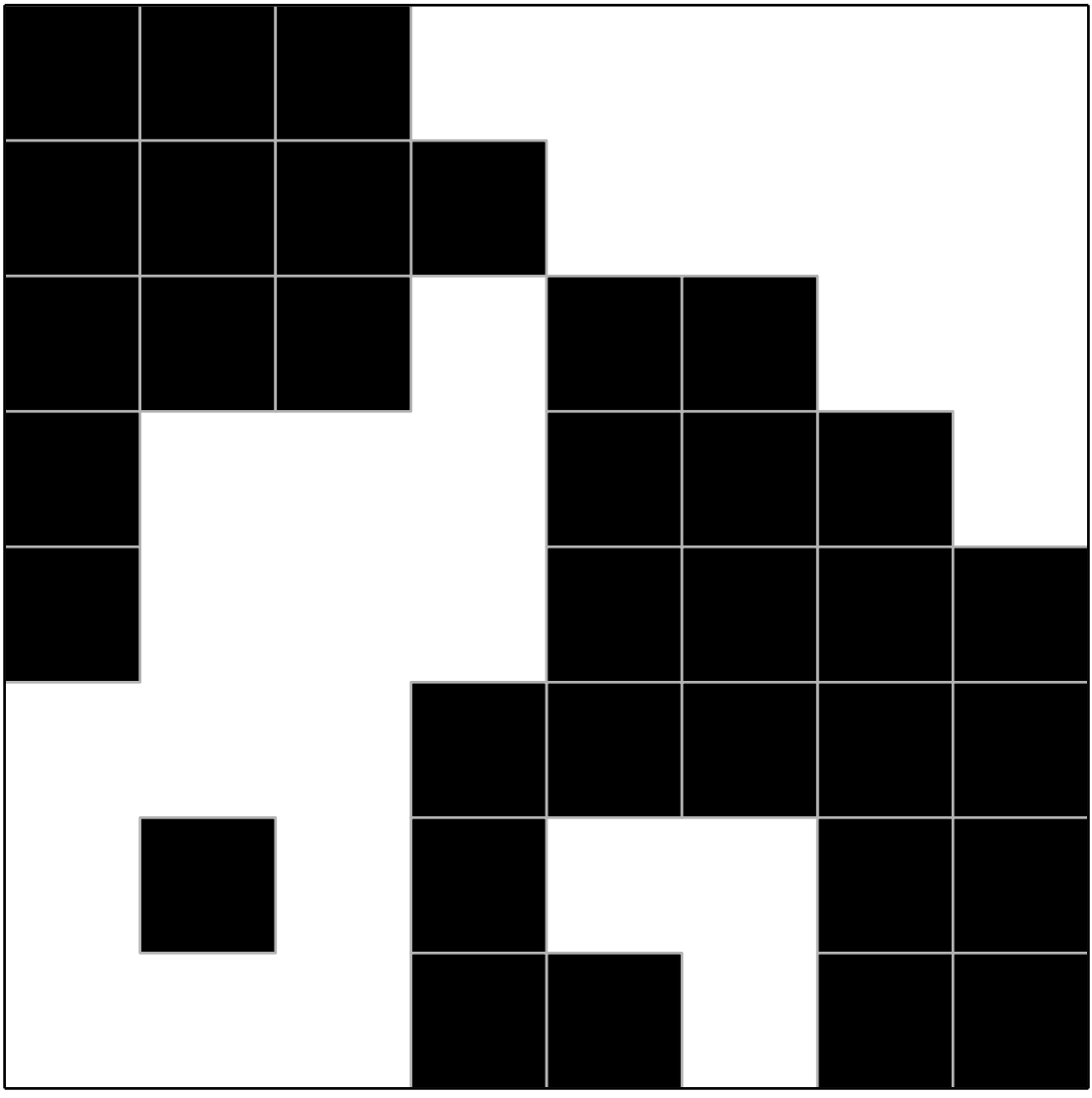

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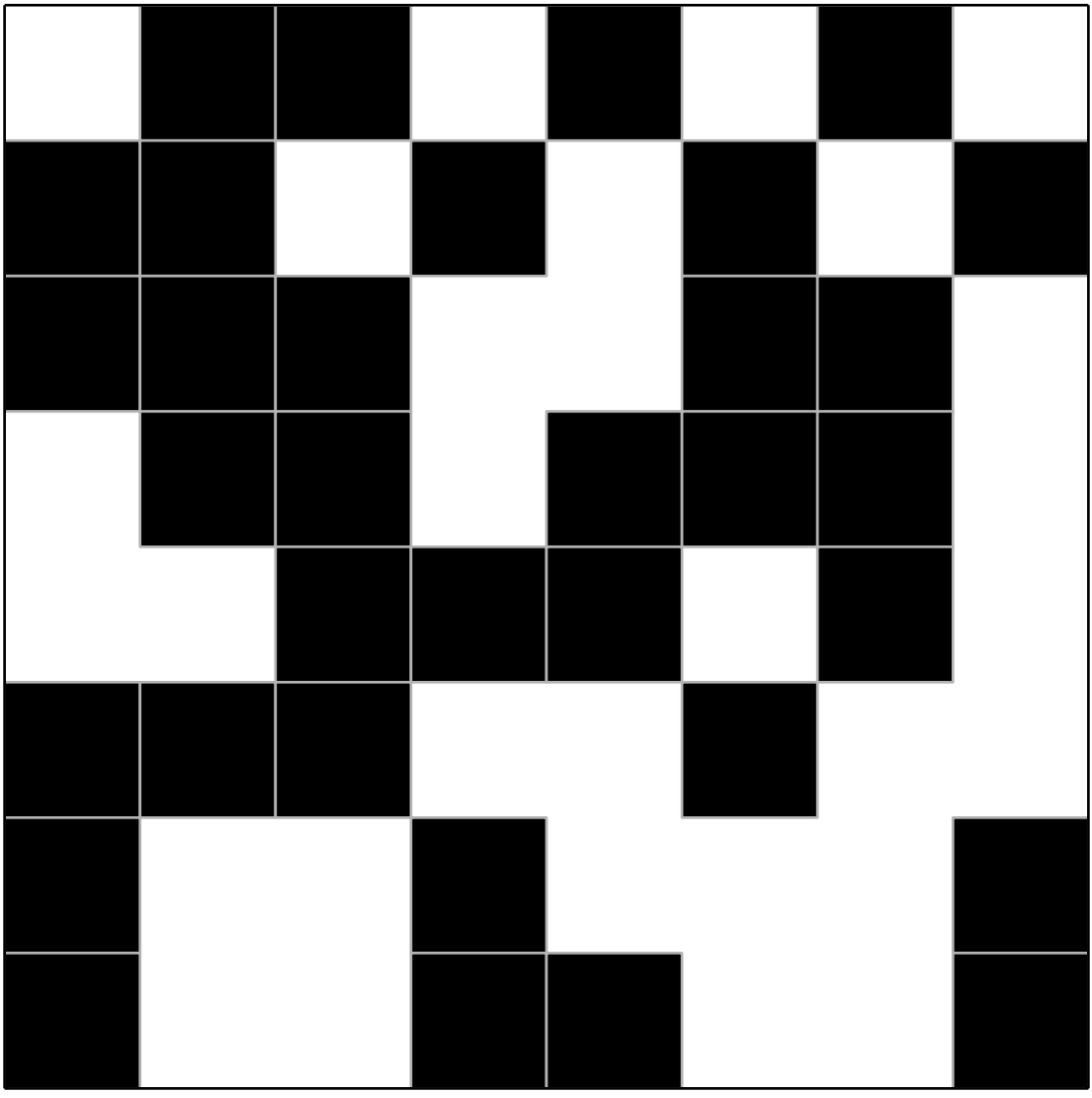

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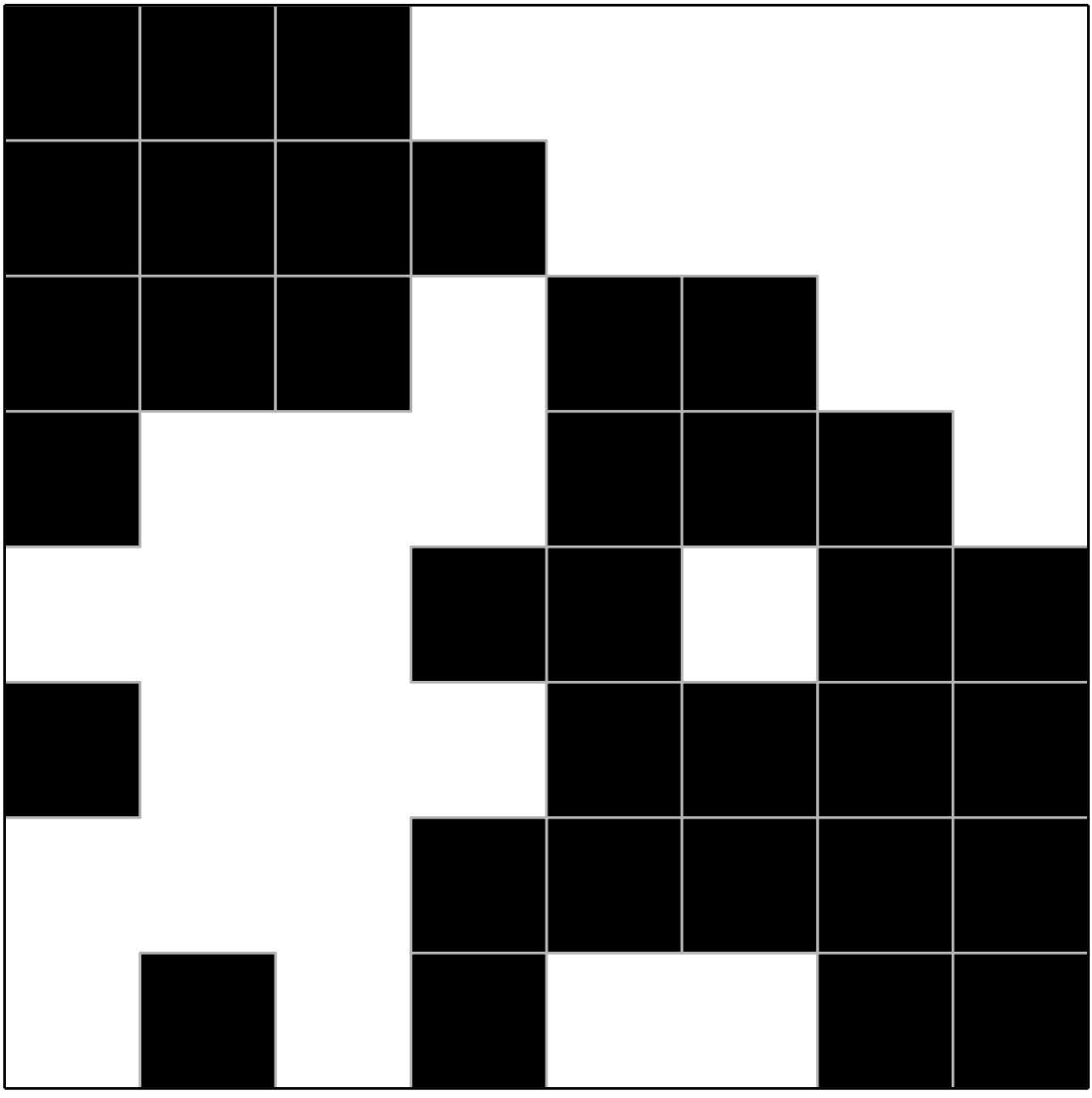

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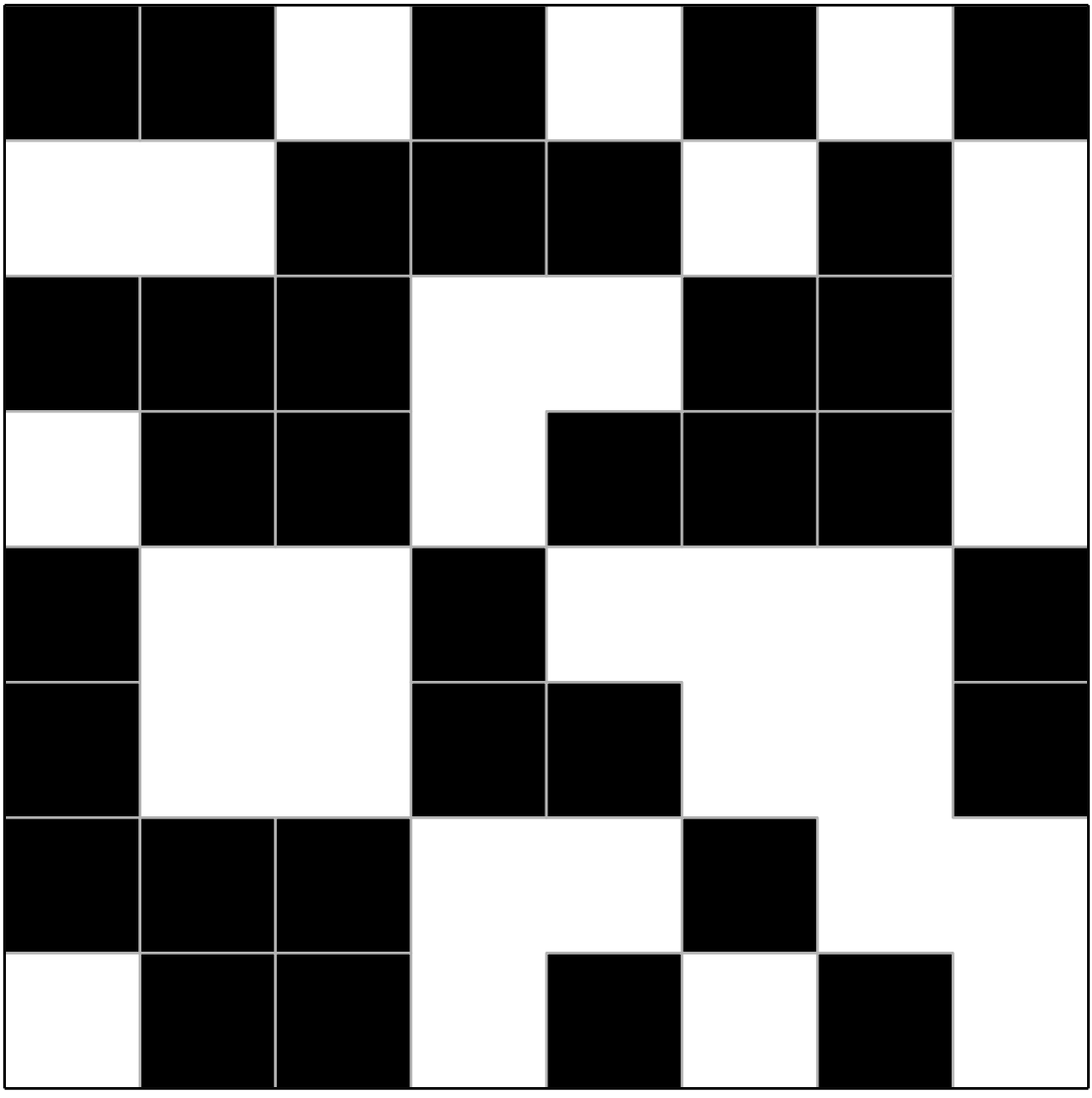

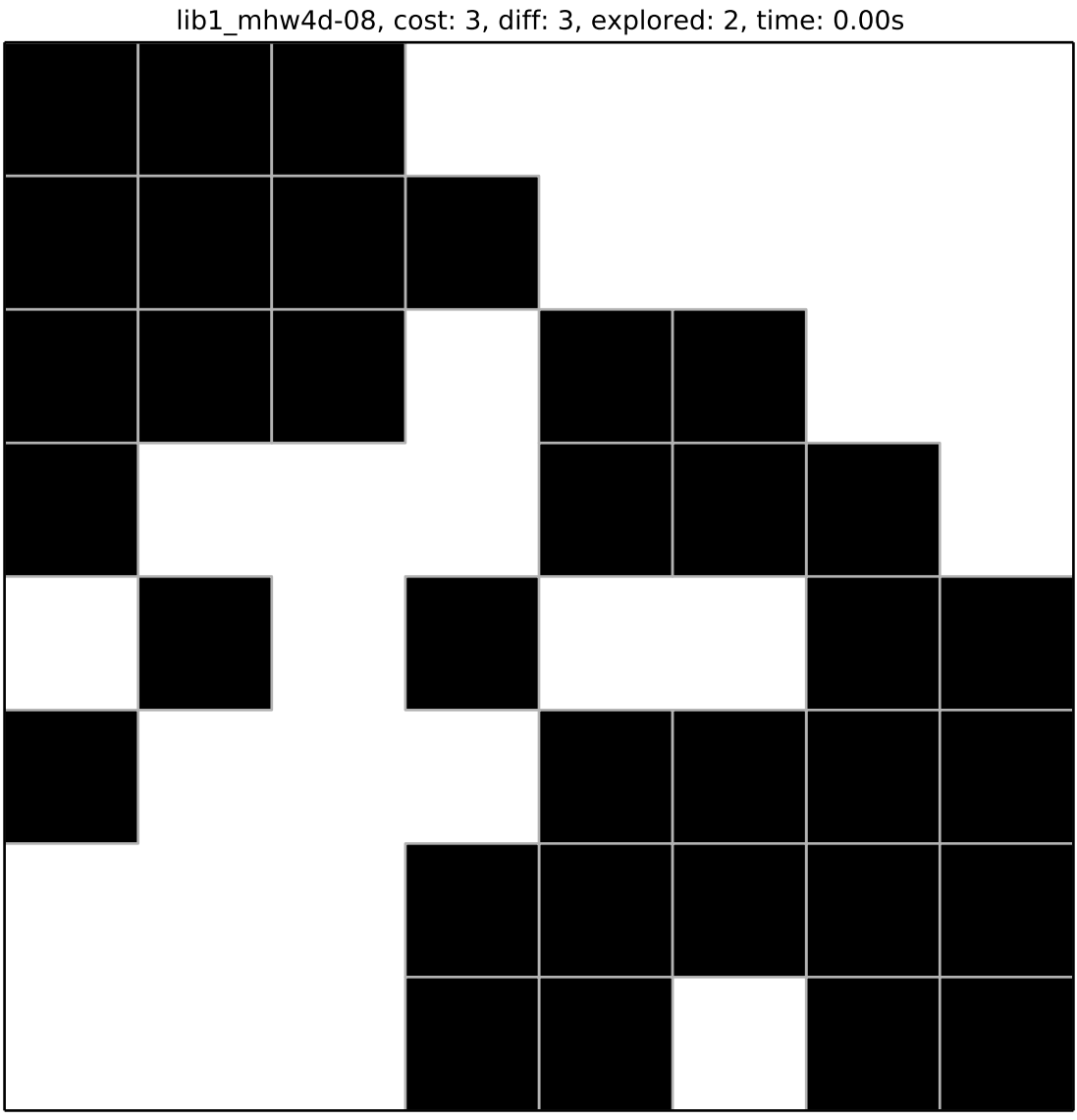
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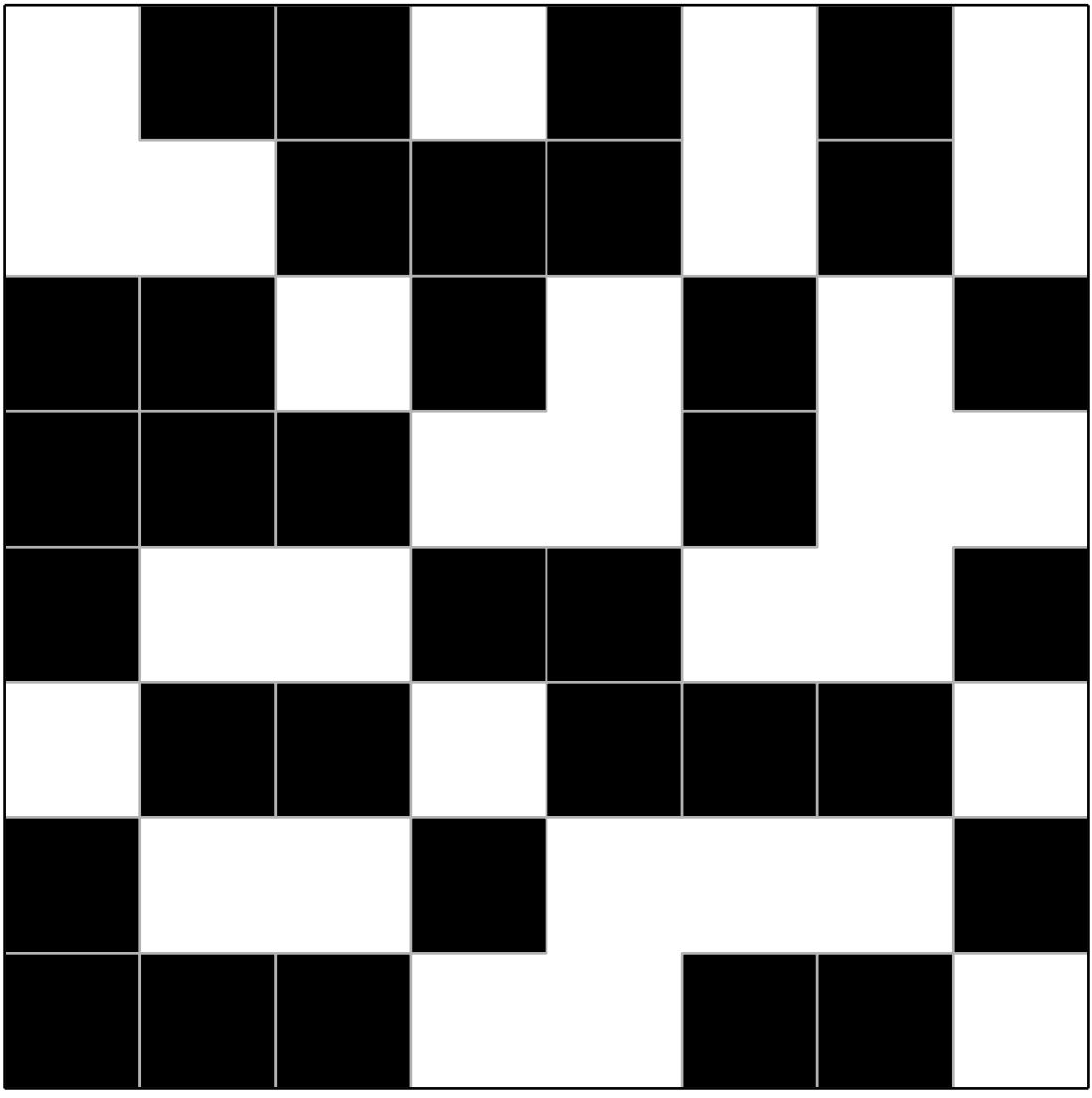

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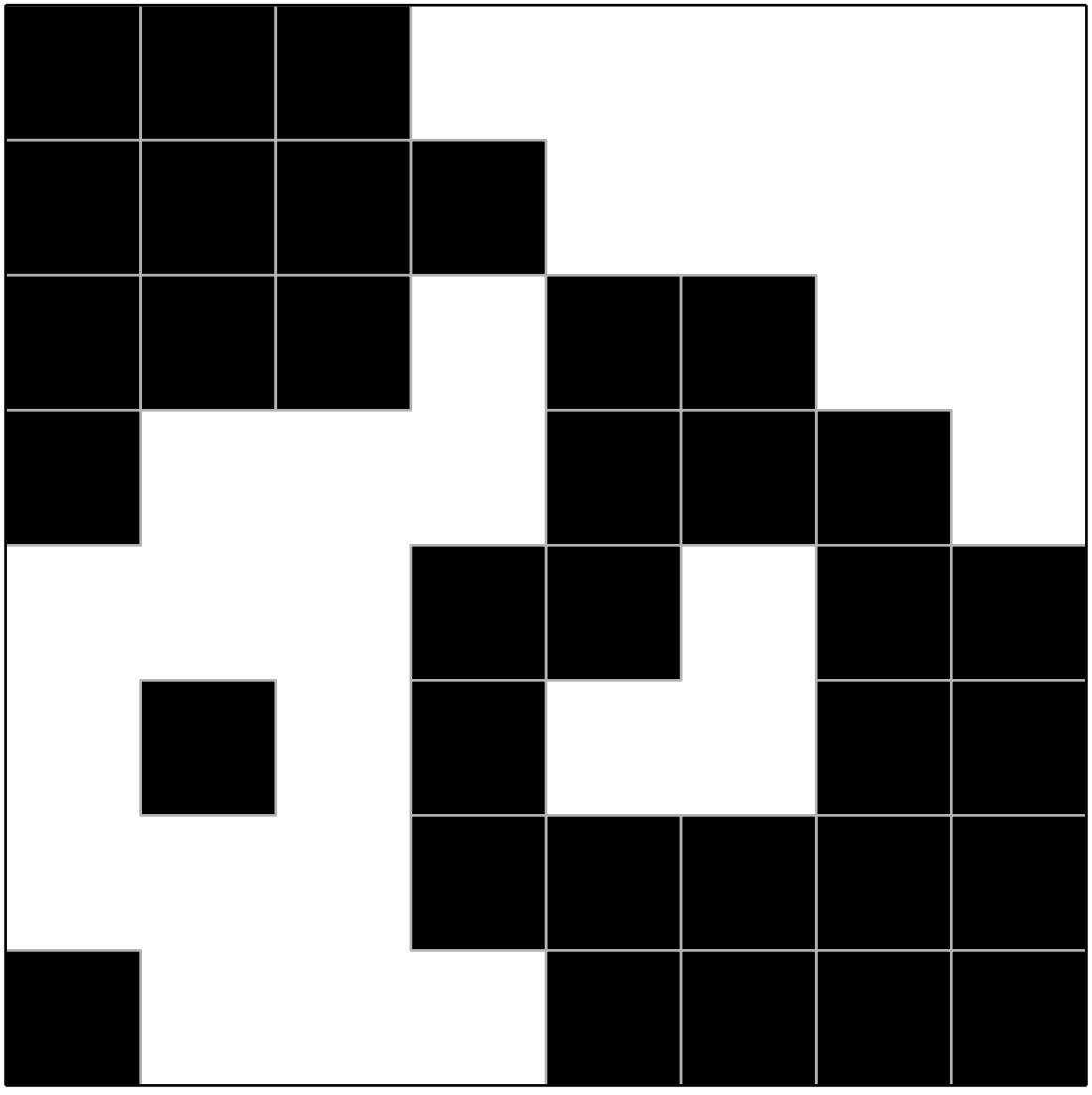

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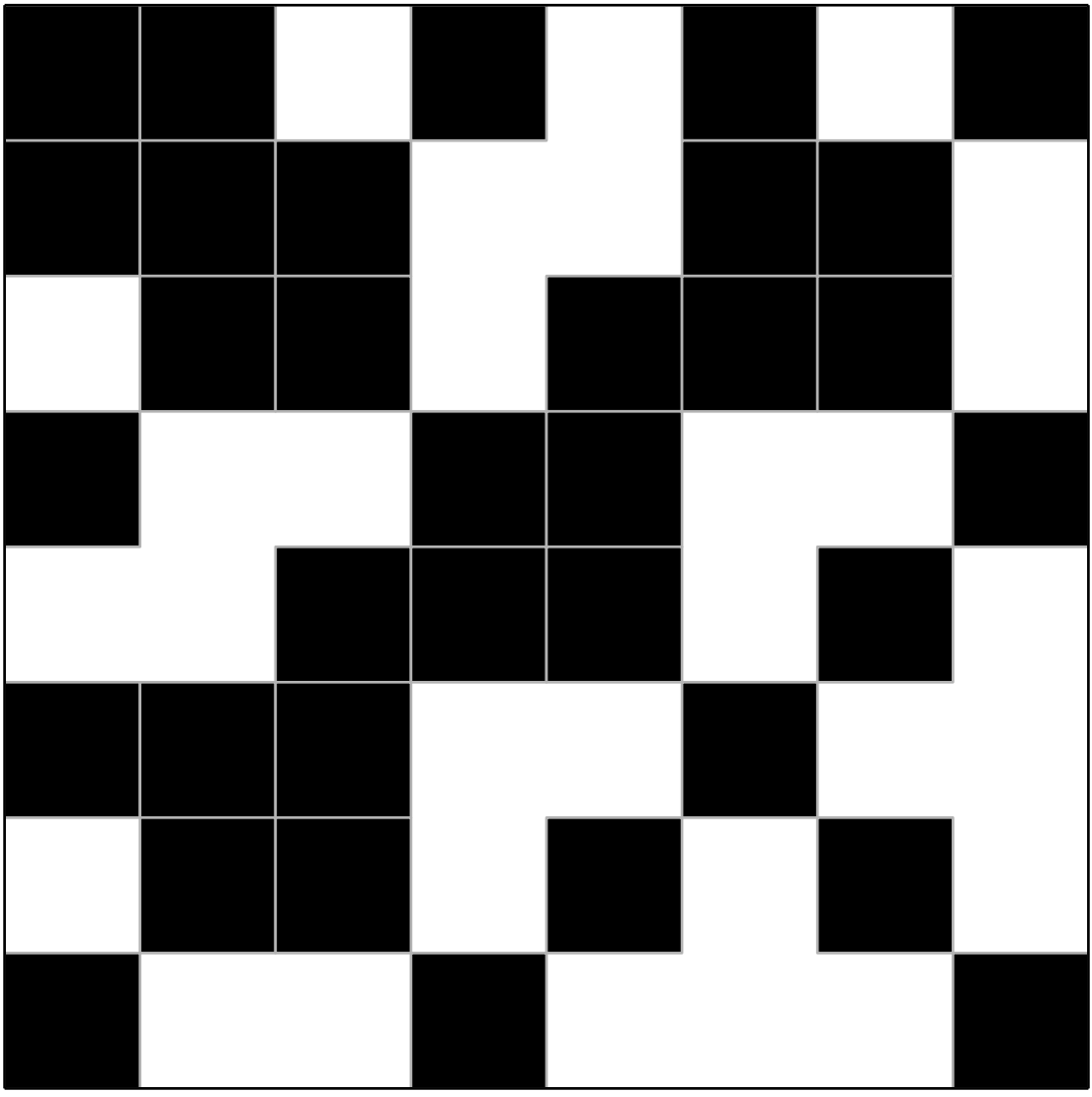

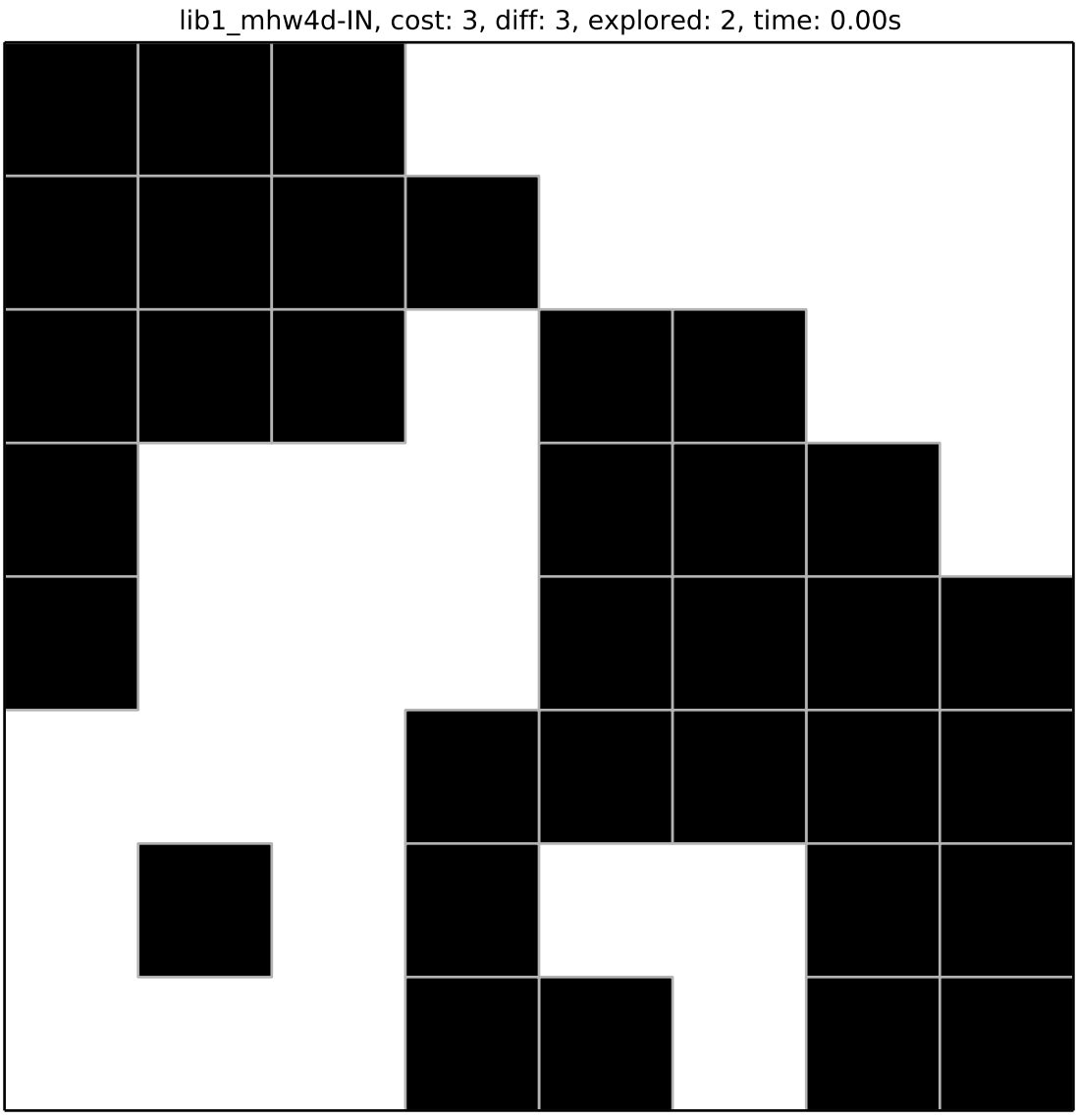
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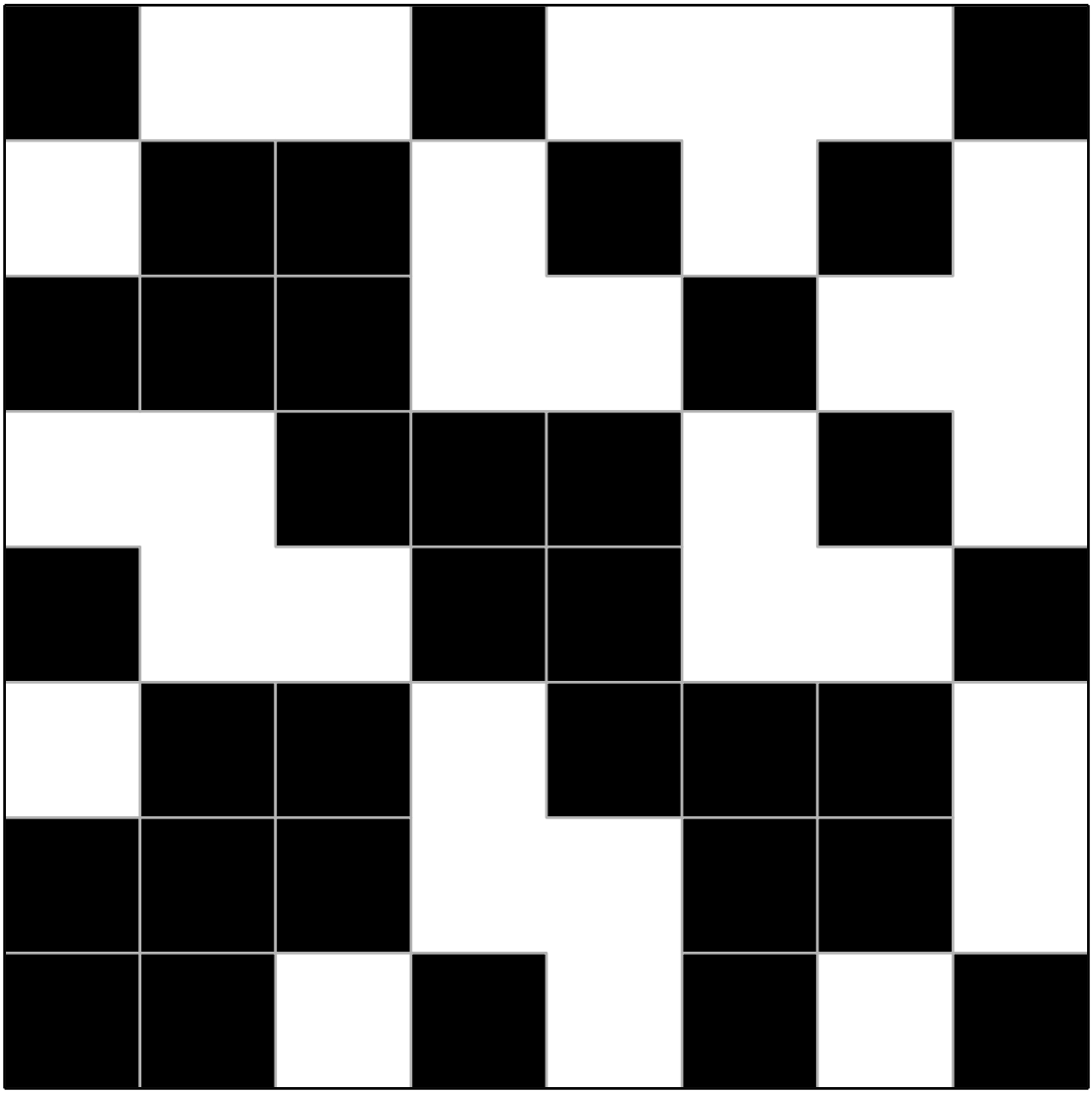
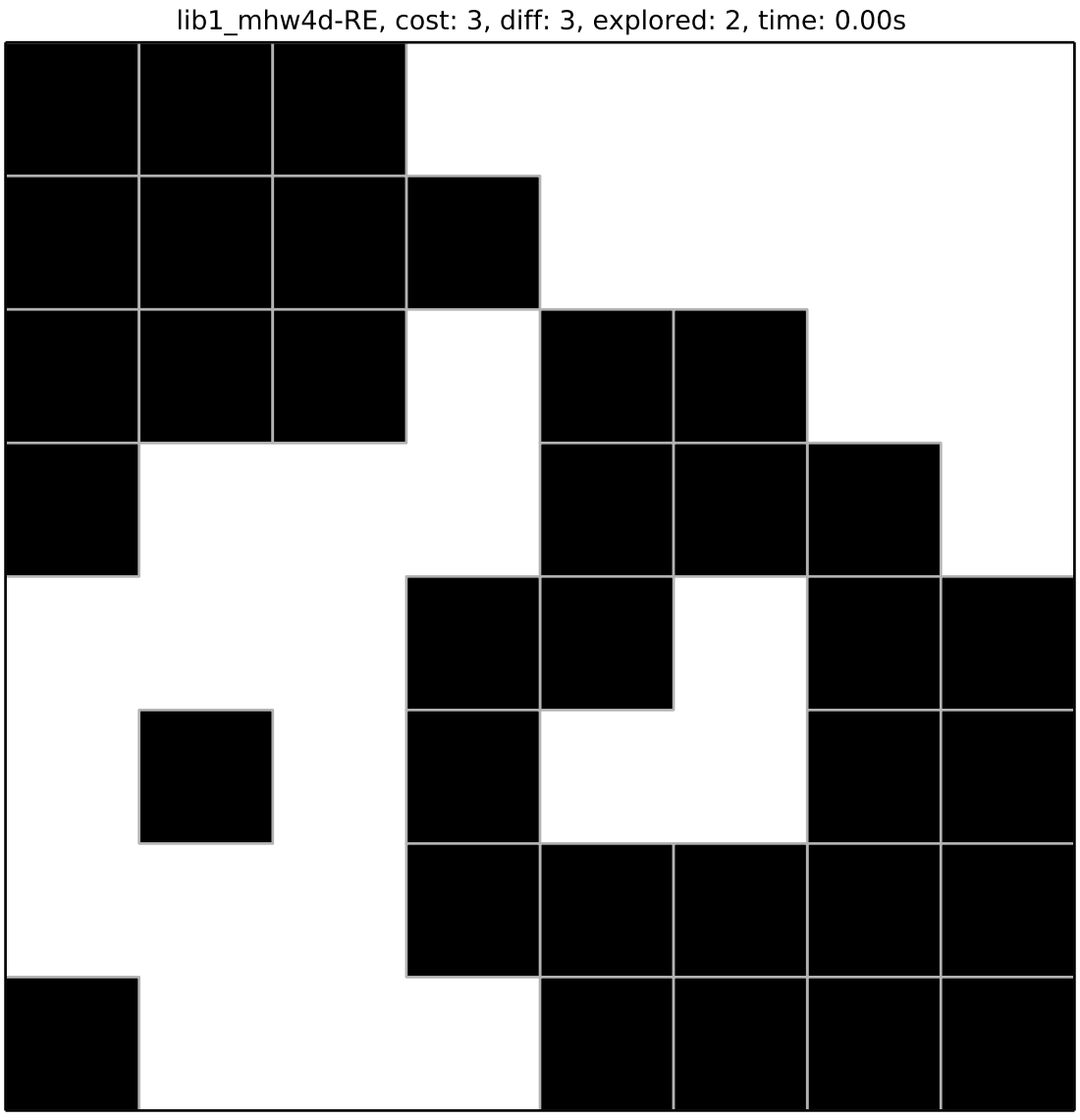
lib1_mhw4d-RE 8x8 (34) con: 3, var: 5

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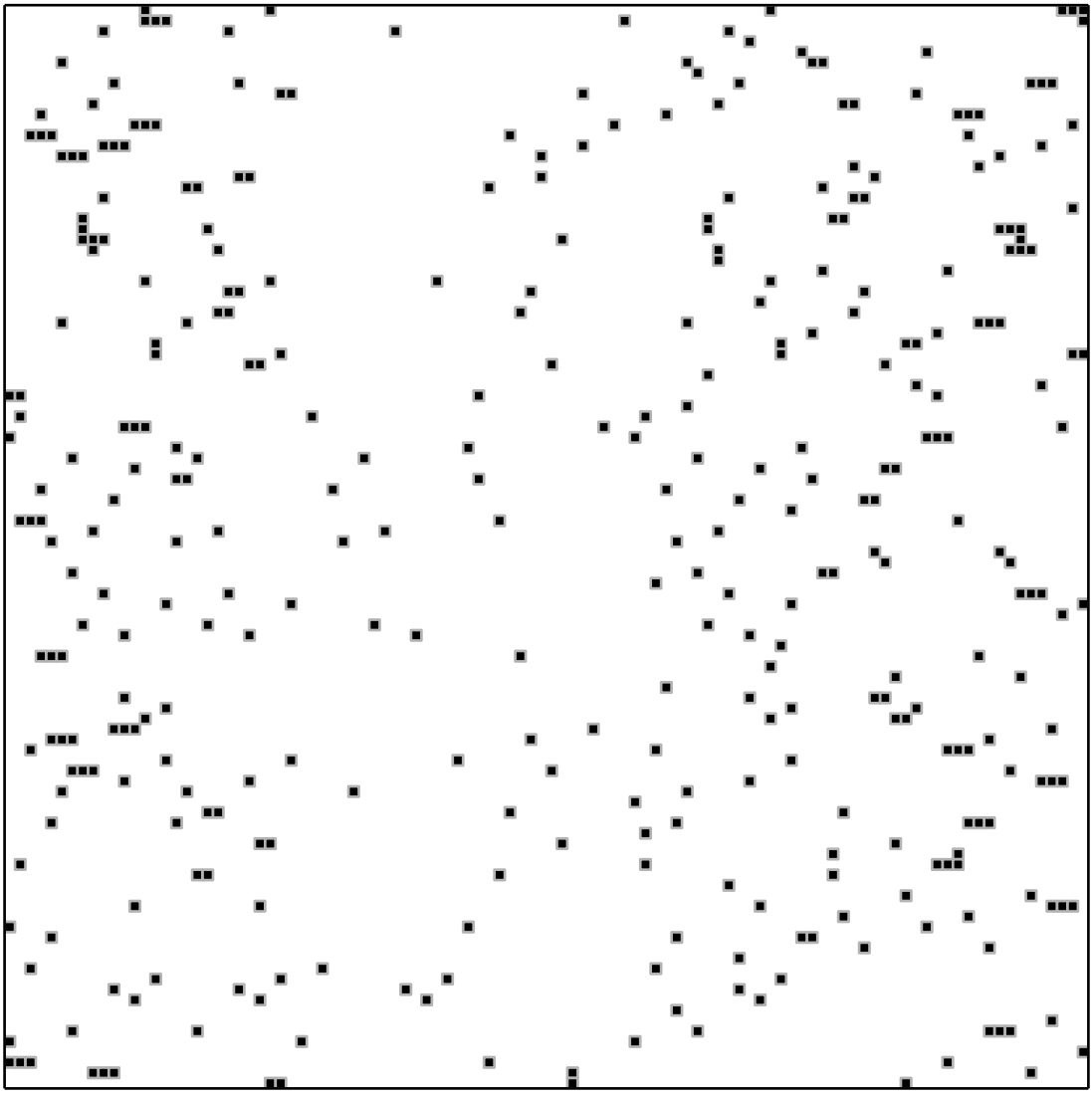
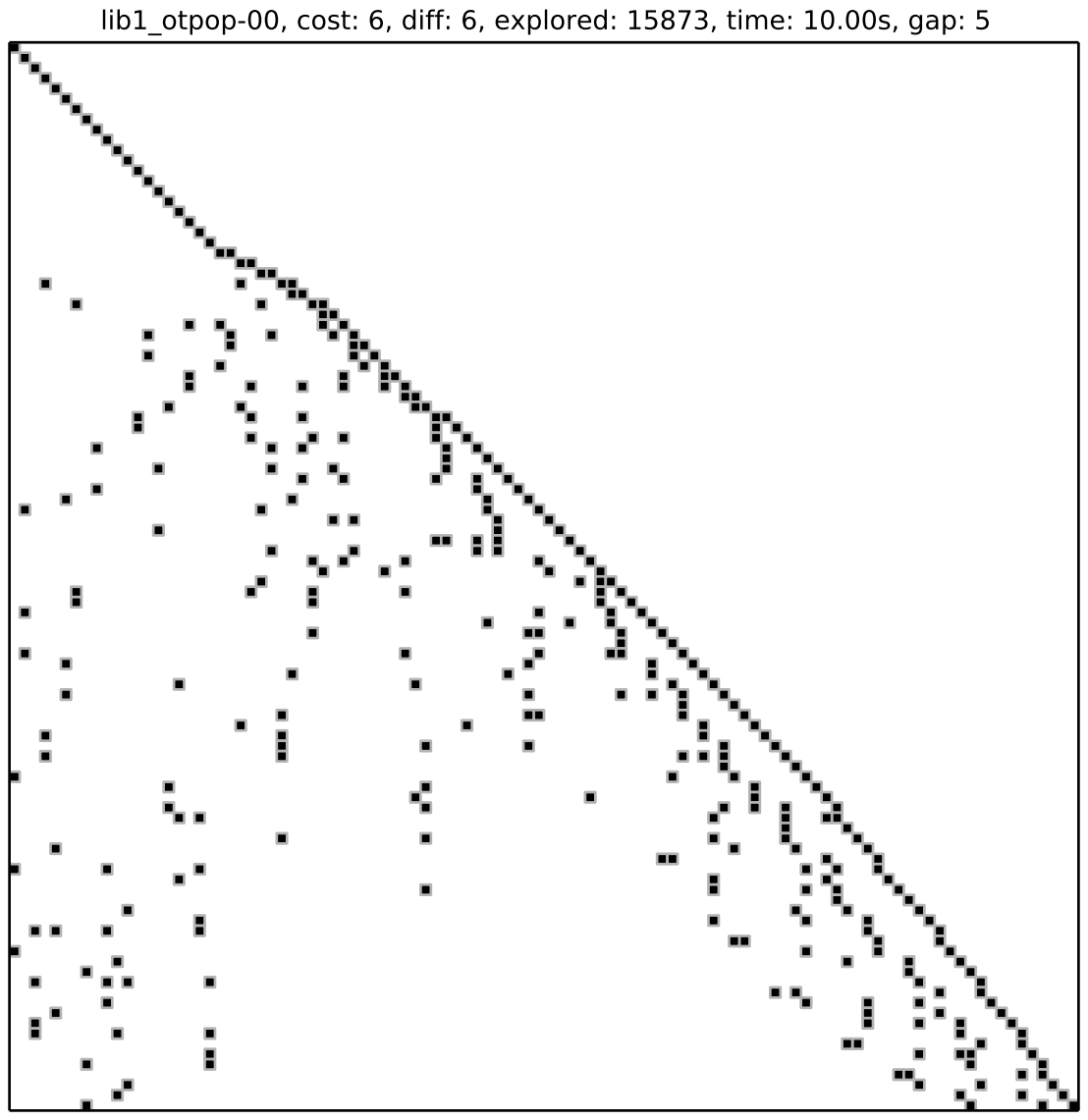
lib1_otpop-00 104x104 (364) con: 44, var: 60

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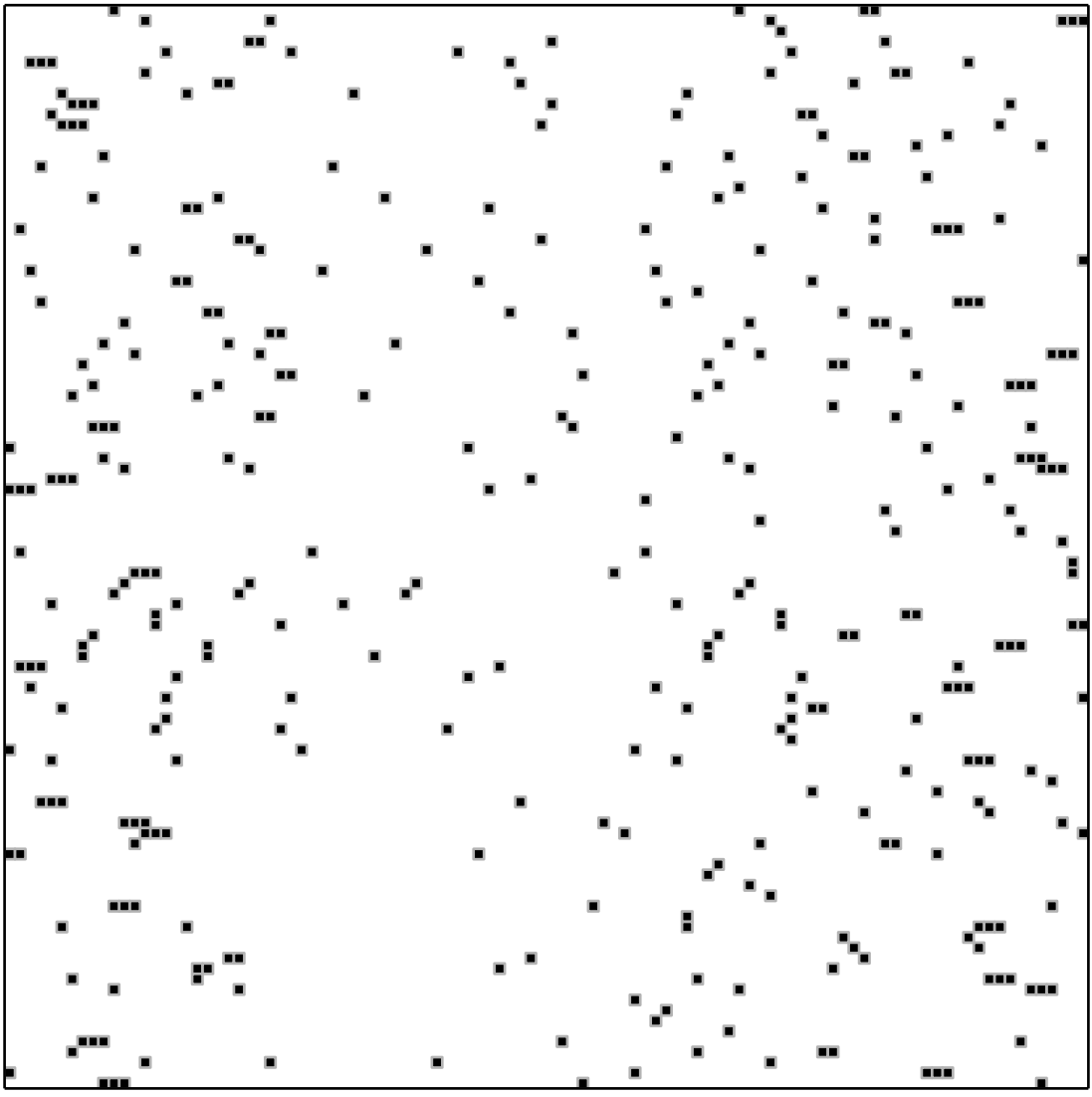
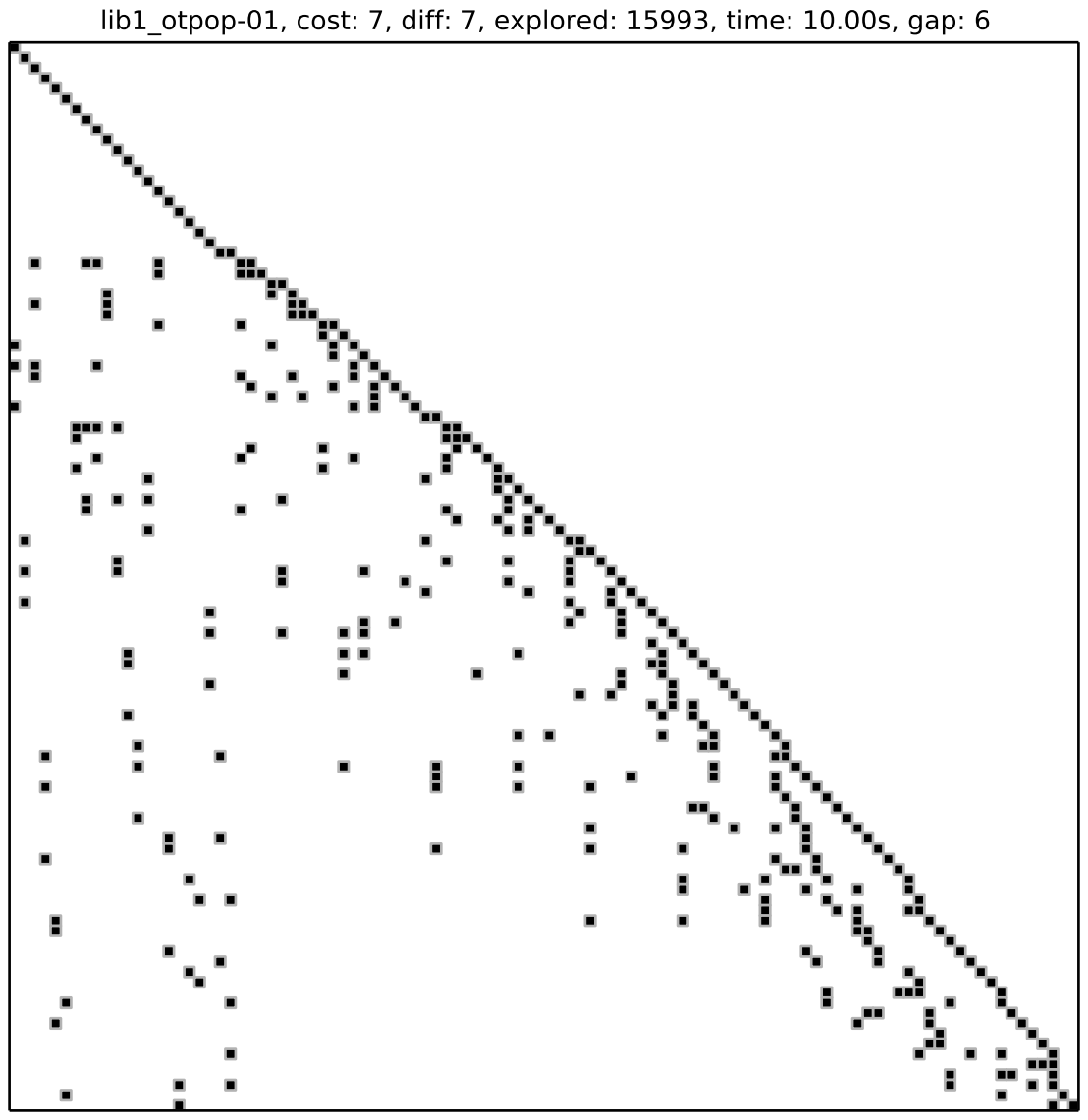
lib1_otpop-01 104x104 (364) con: 44, var: 60

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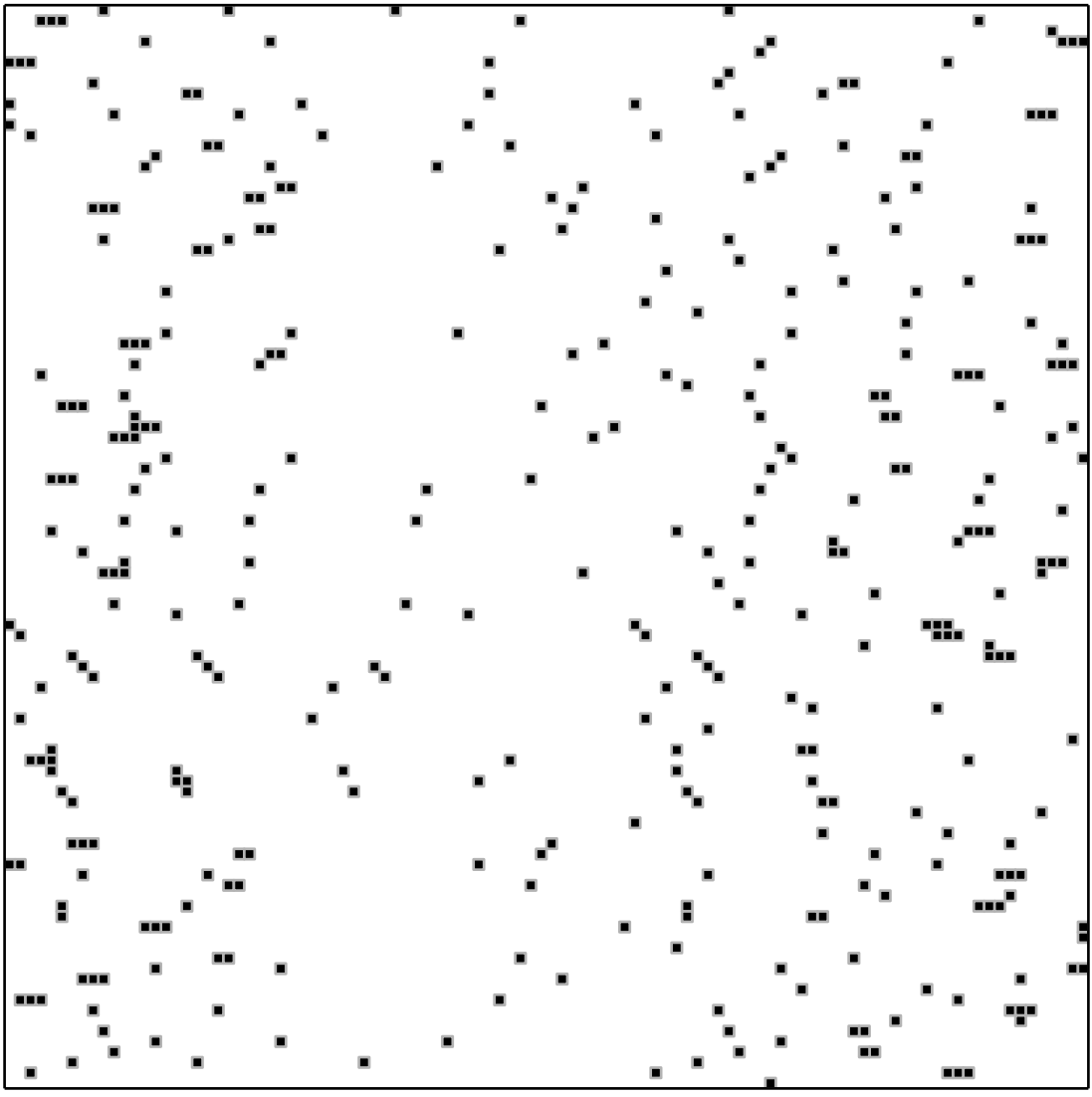
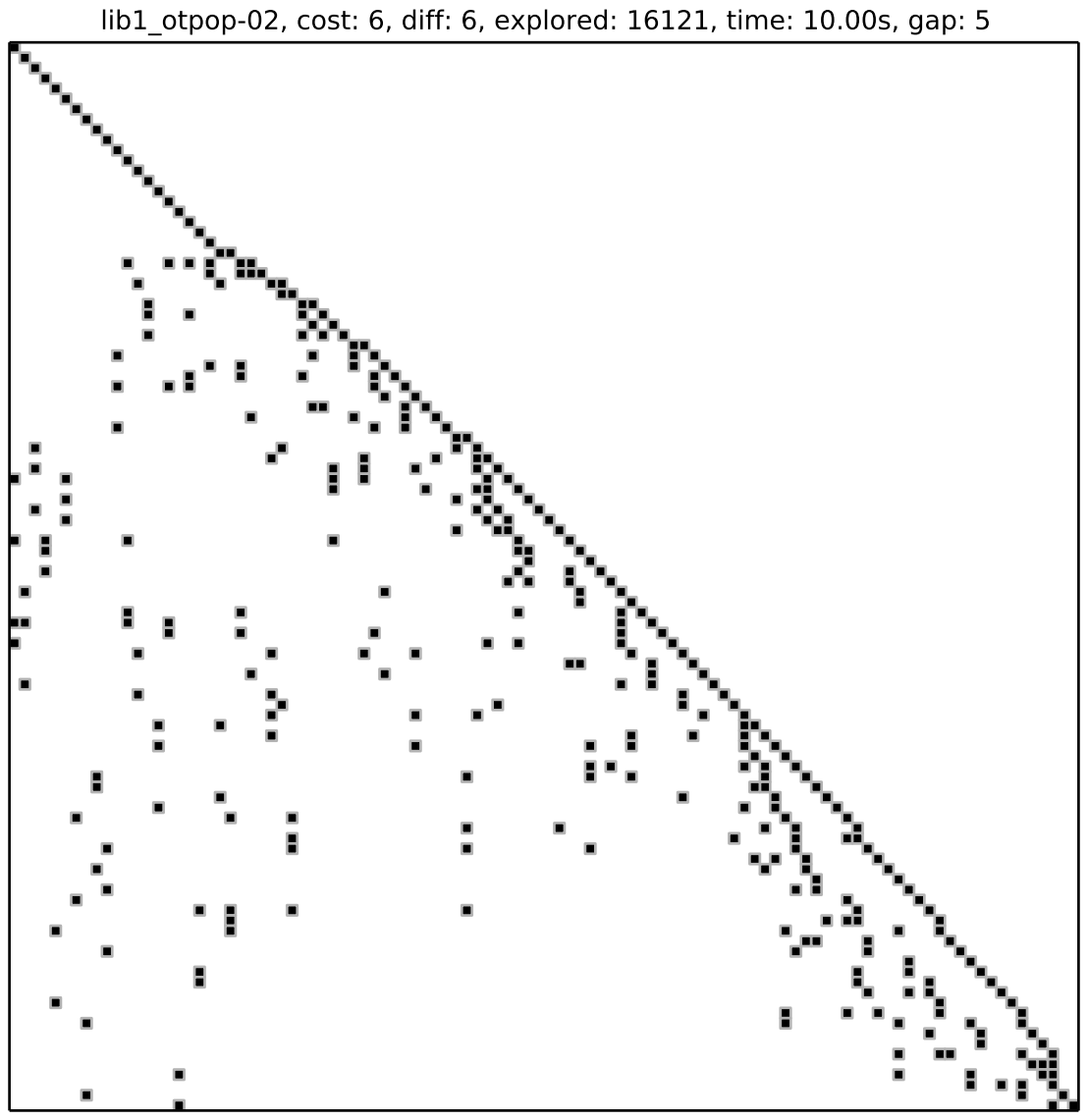
lib1_otpop-02 104x104 (364) con: 44, var: 60

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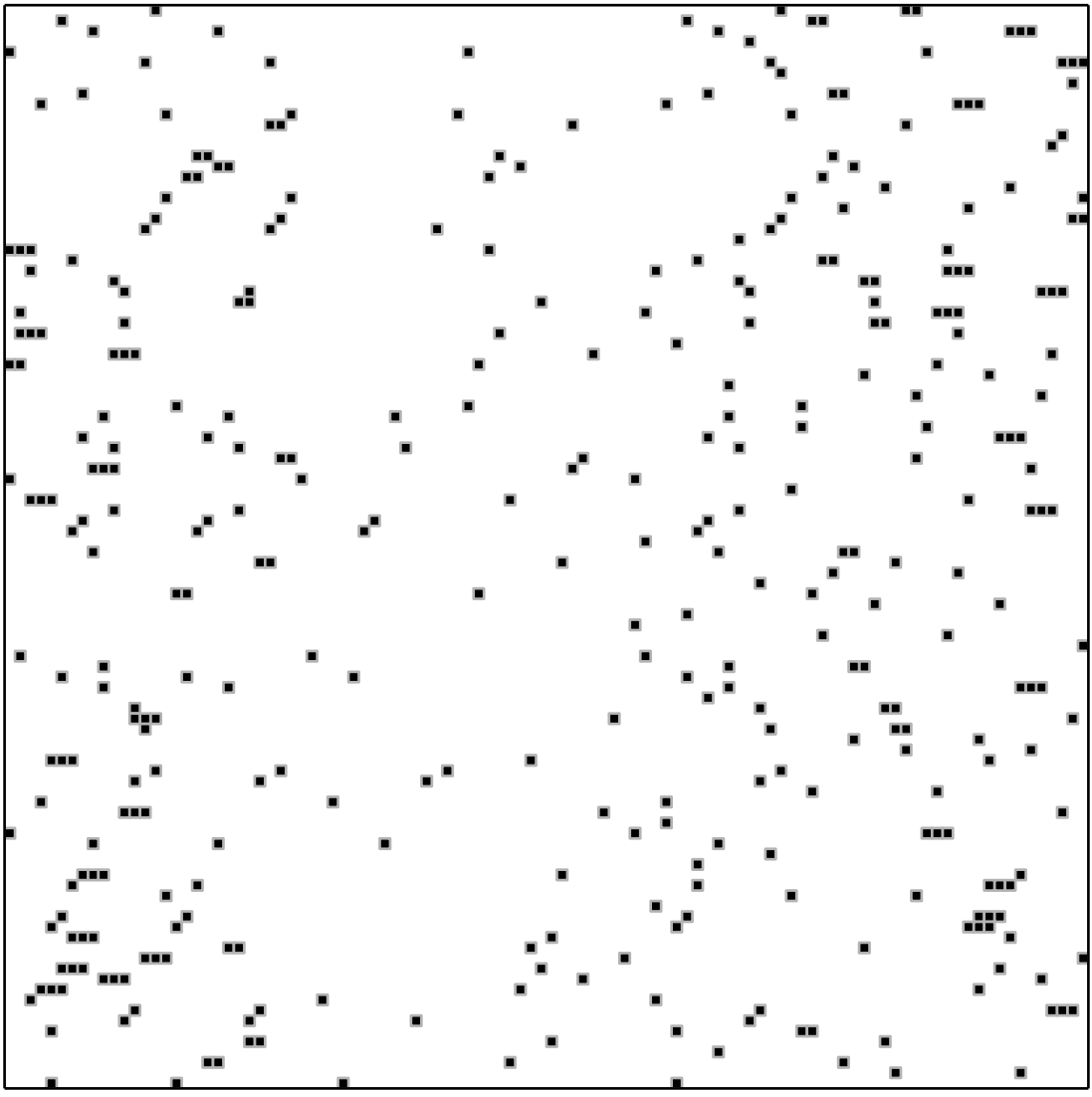
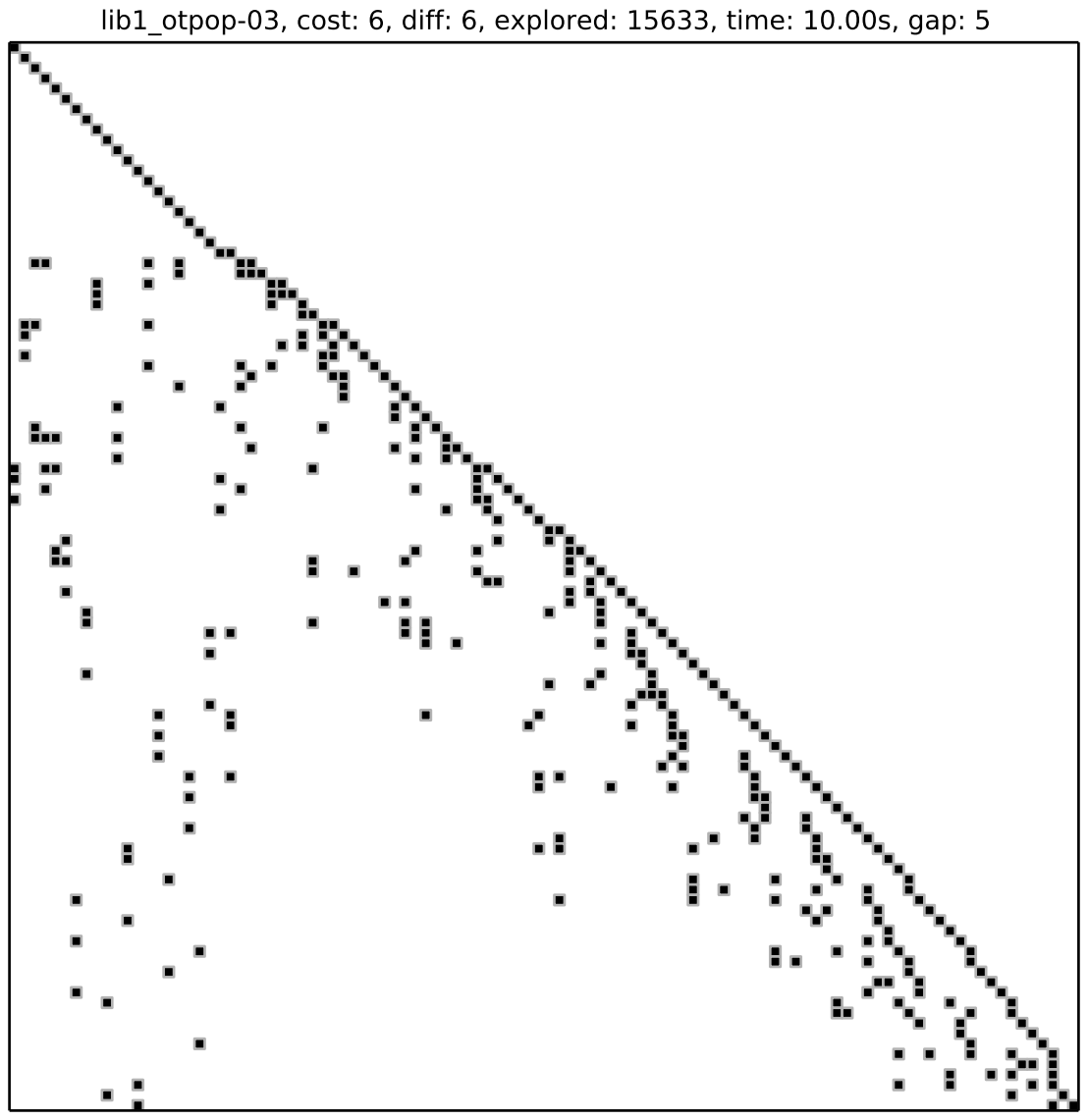
lib1_otpop-03 104x104 (364) con: 44, var: 60

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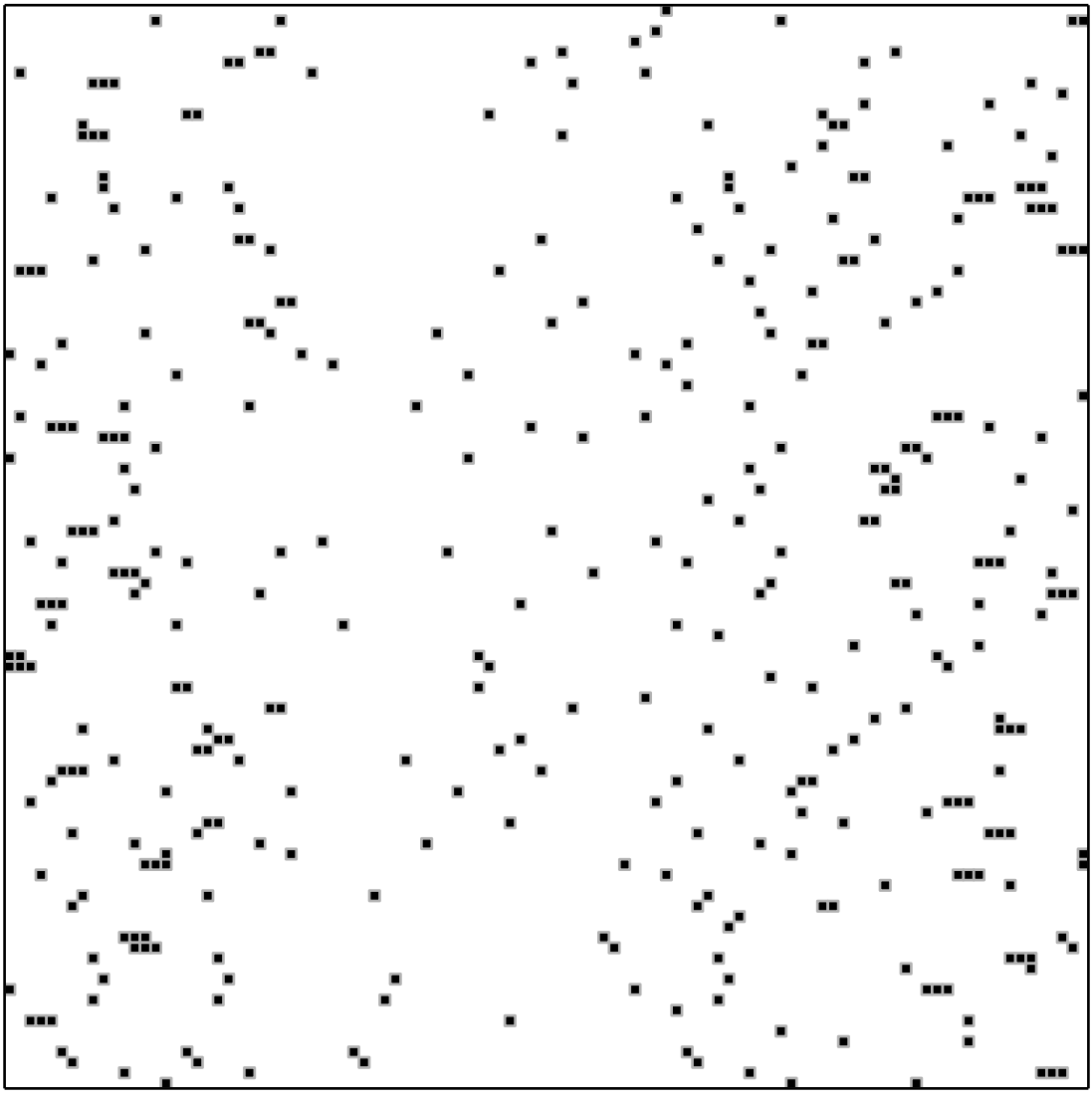
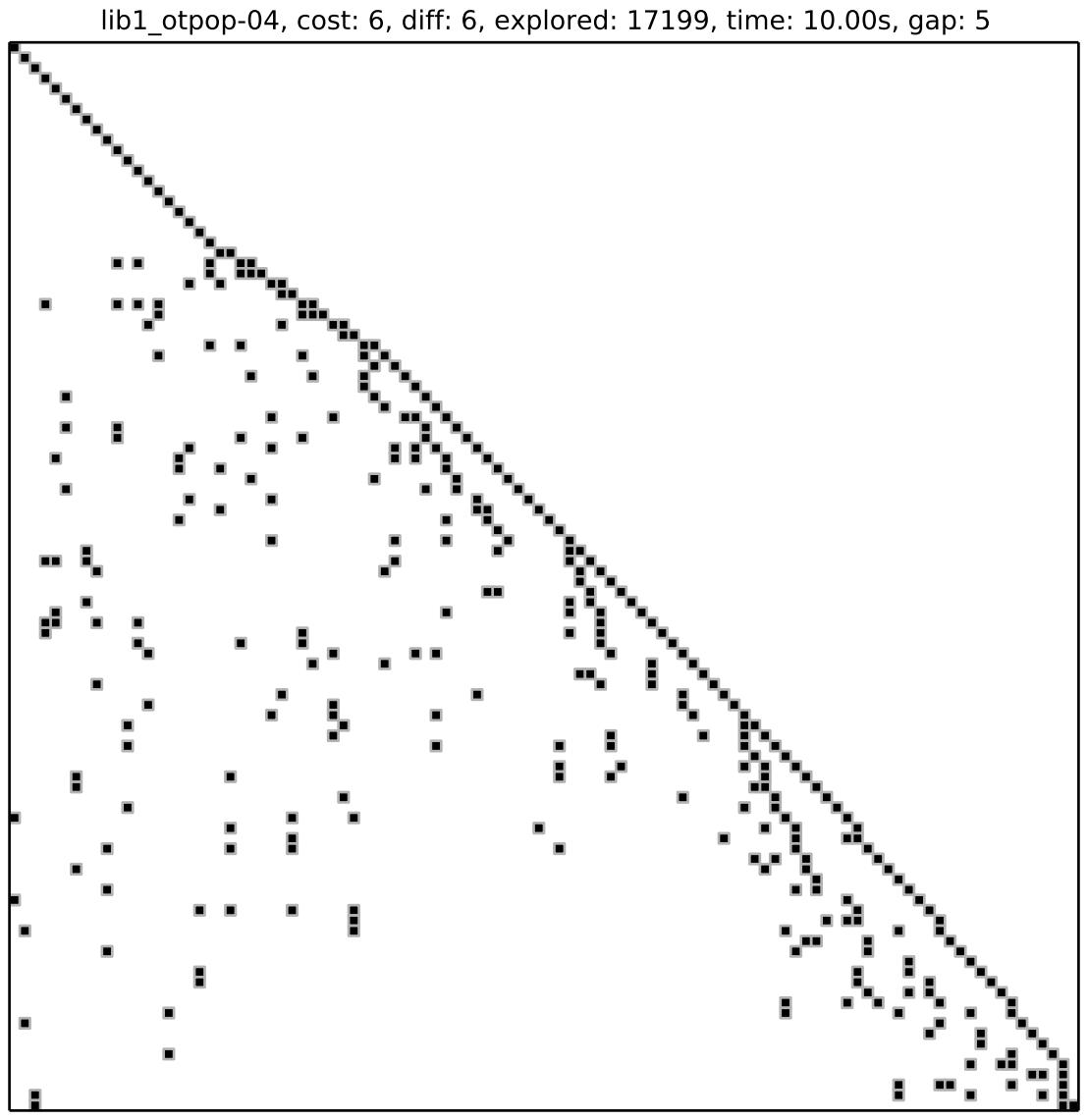
lib1_otpop-04 104x104 (364) con: 44, var: 60

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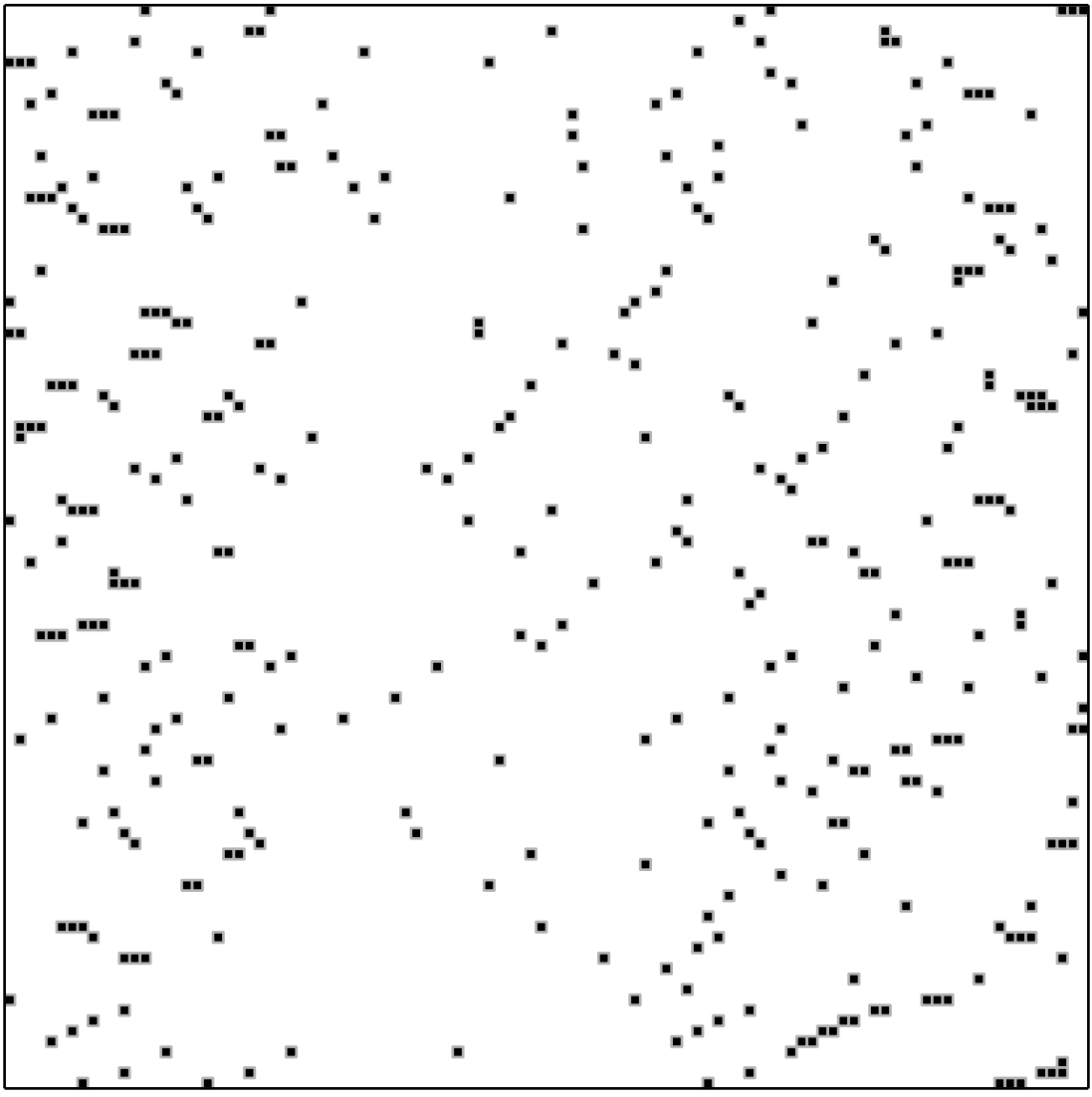
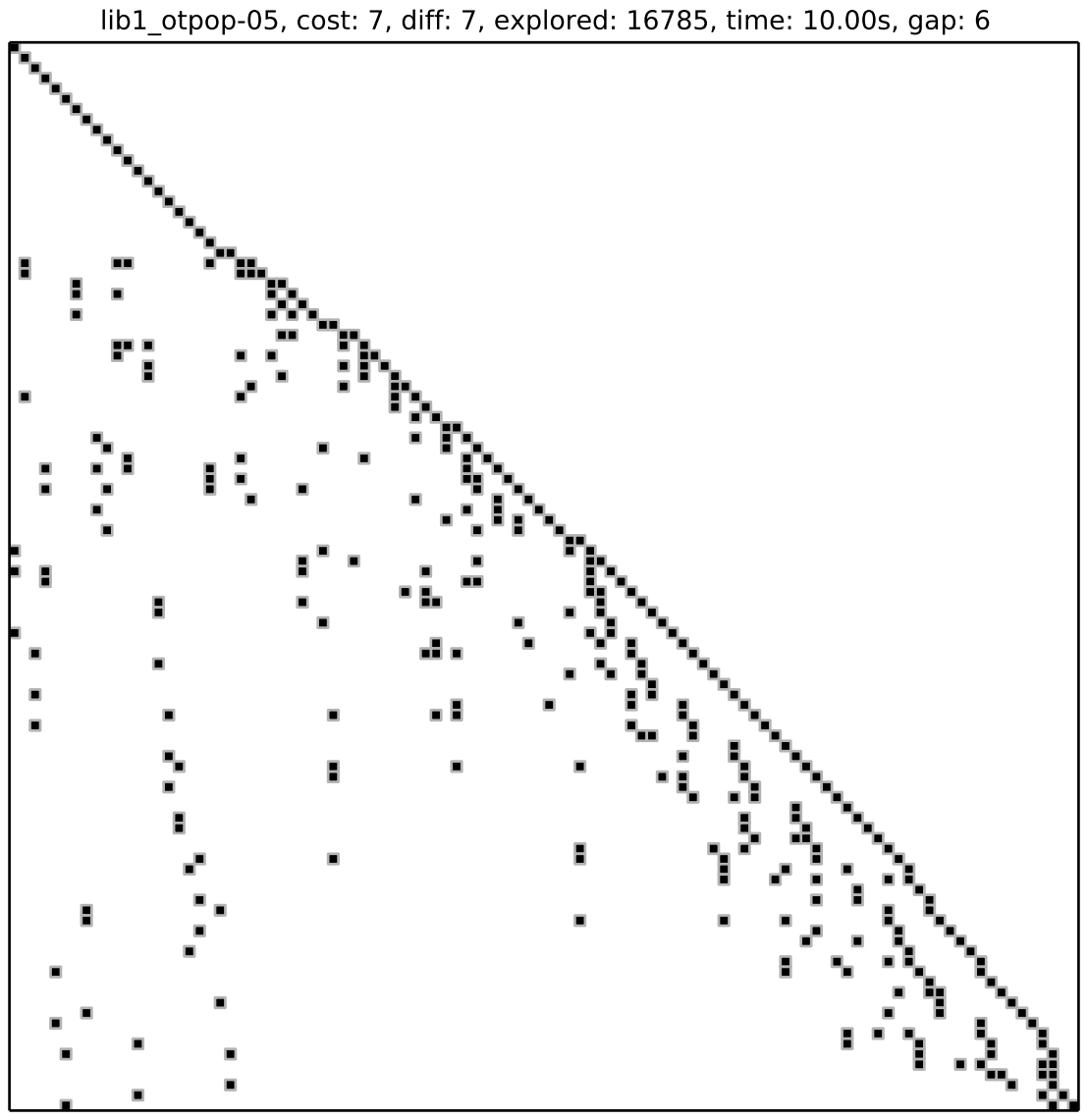
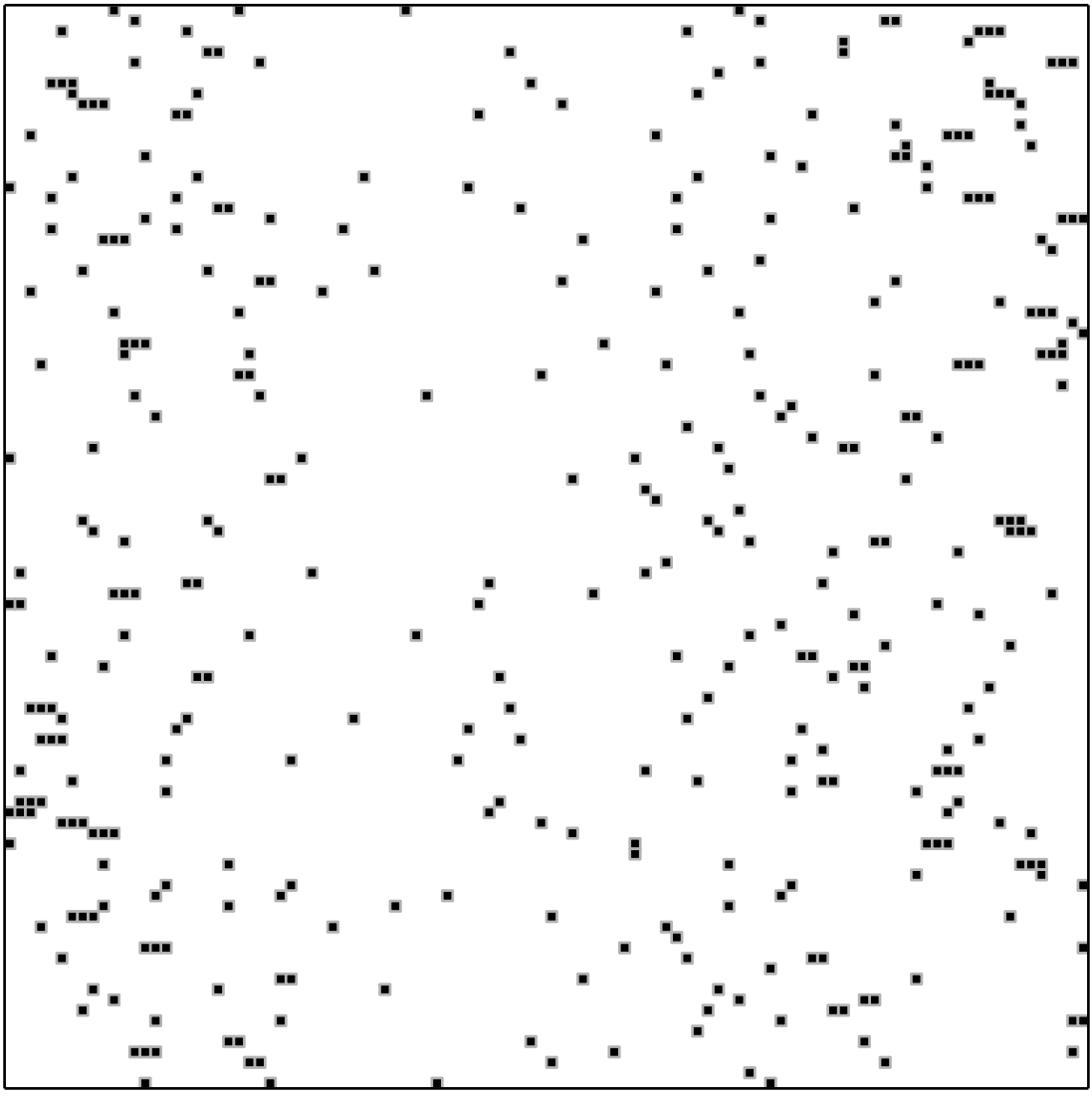
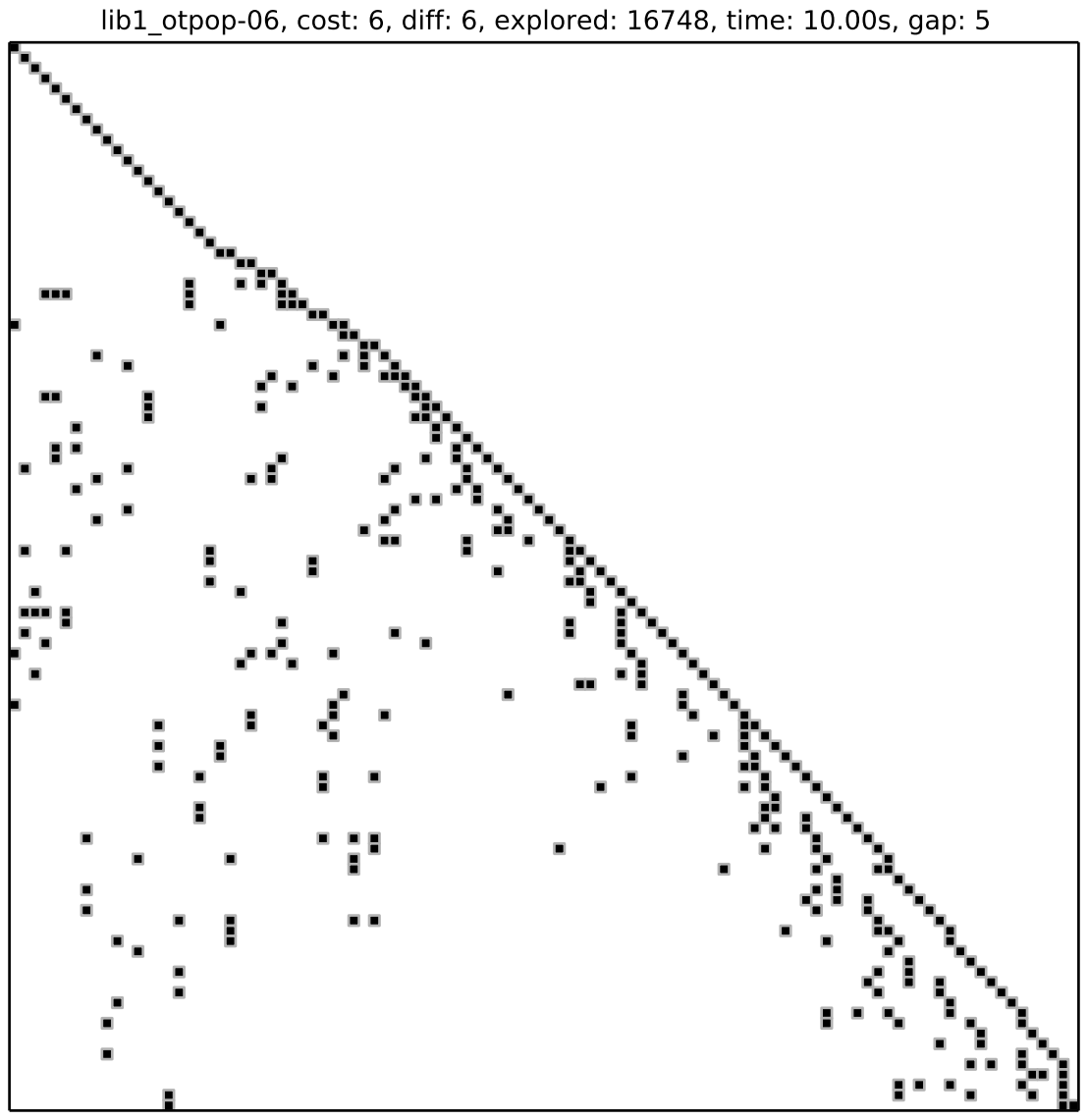
lib1_otpop-05 104x104 (364) con: 44, var: 60




lib1_otpop-05, cost: 7, diff: 7, explored: 16785, time: 10.00s, gap: 6

lib1_otpop-06 104x104 (364) con: 44, var: 60

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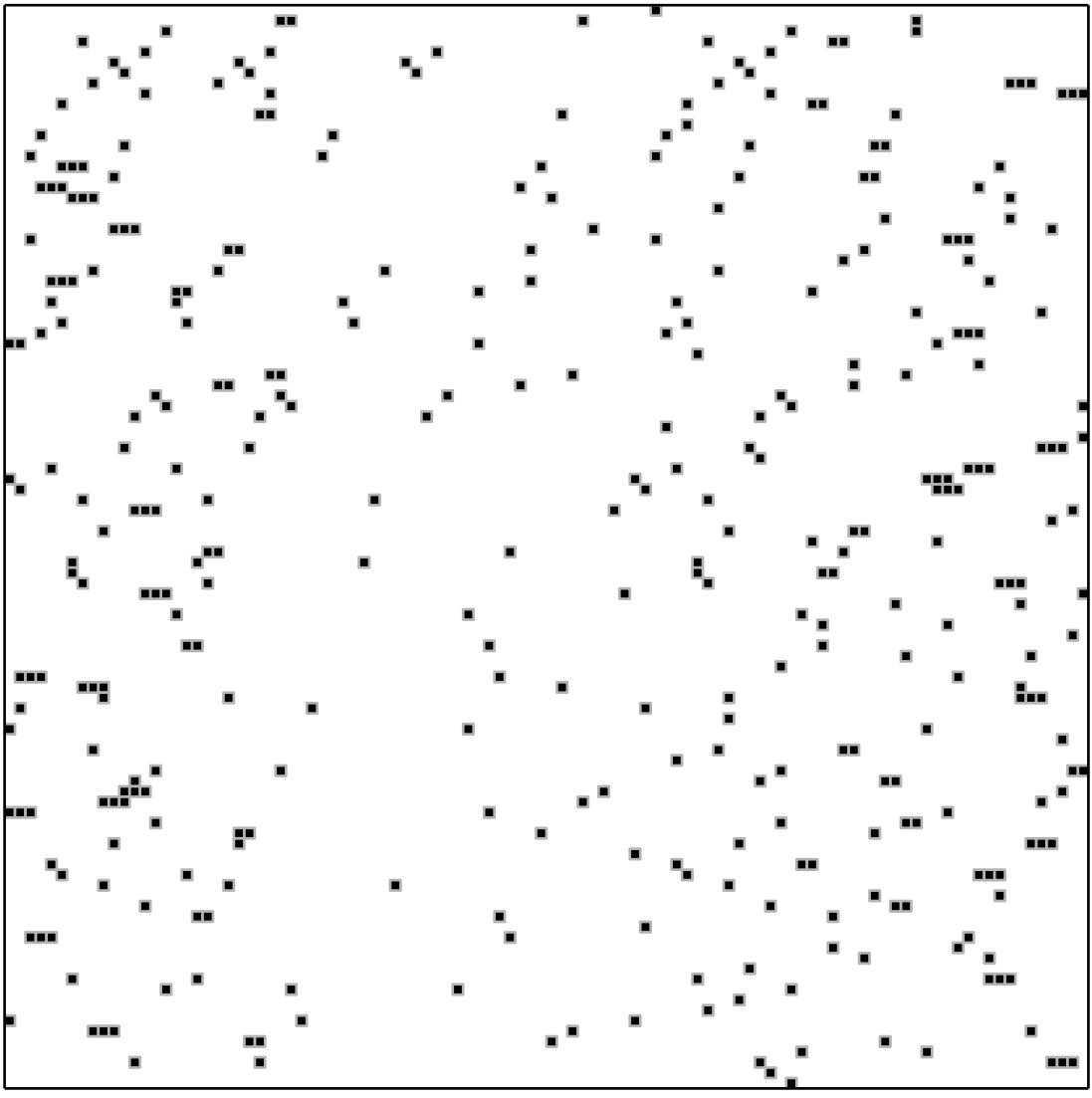
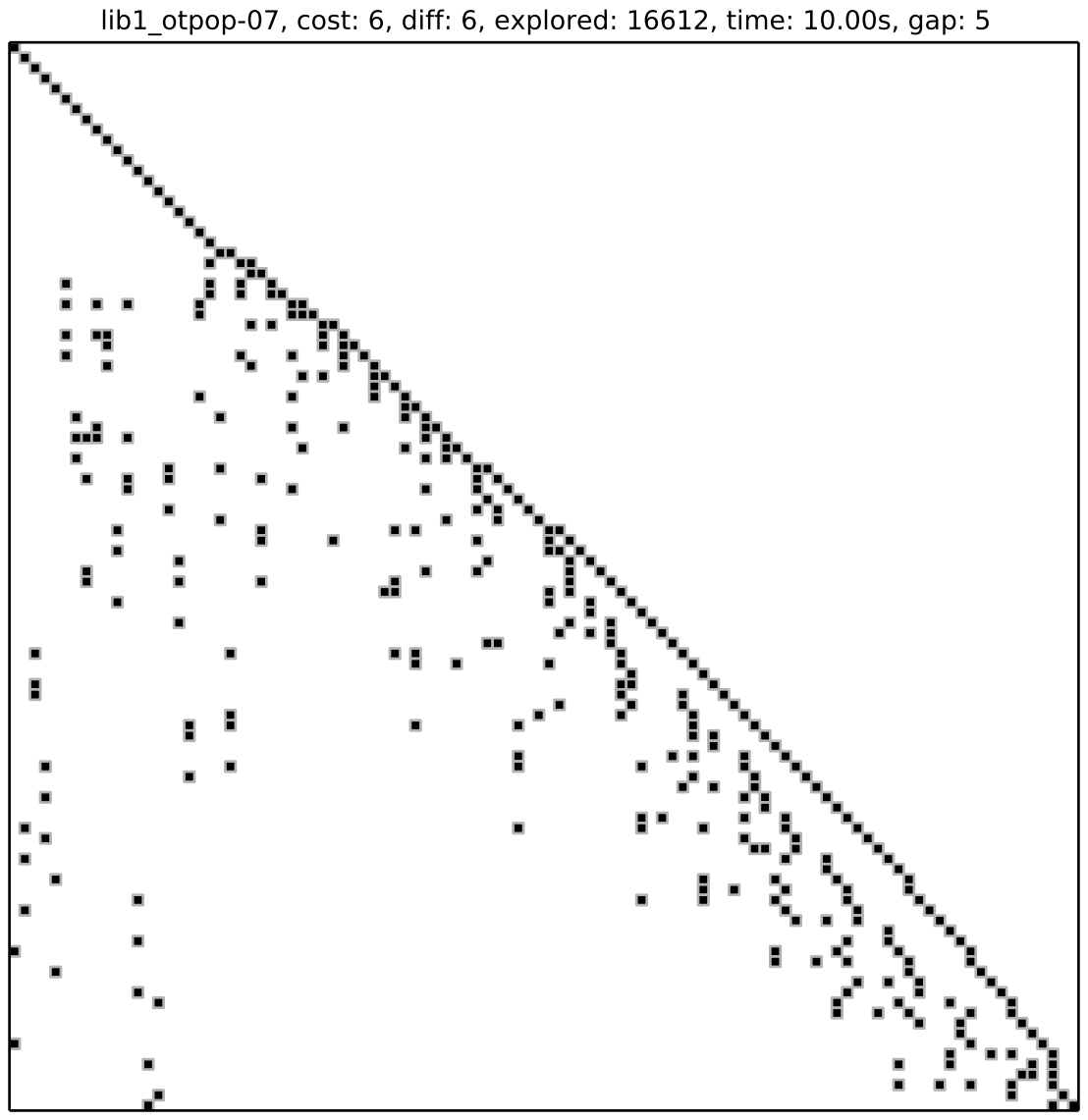
lib1_otpop-07 104x104 (364) con: 44, var: 60

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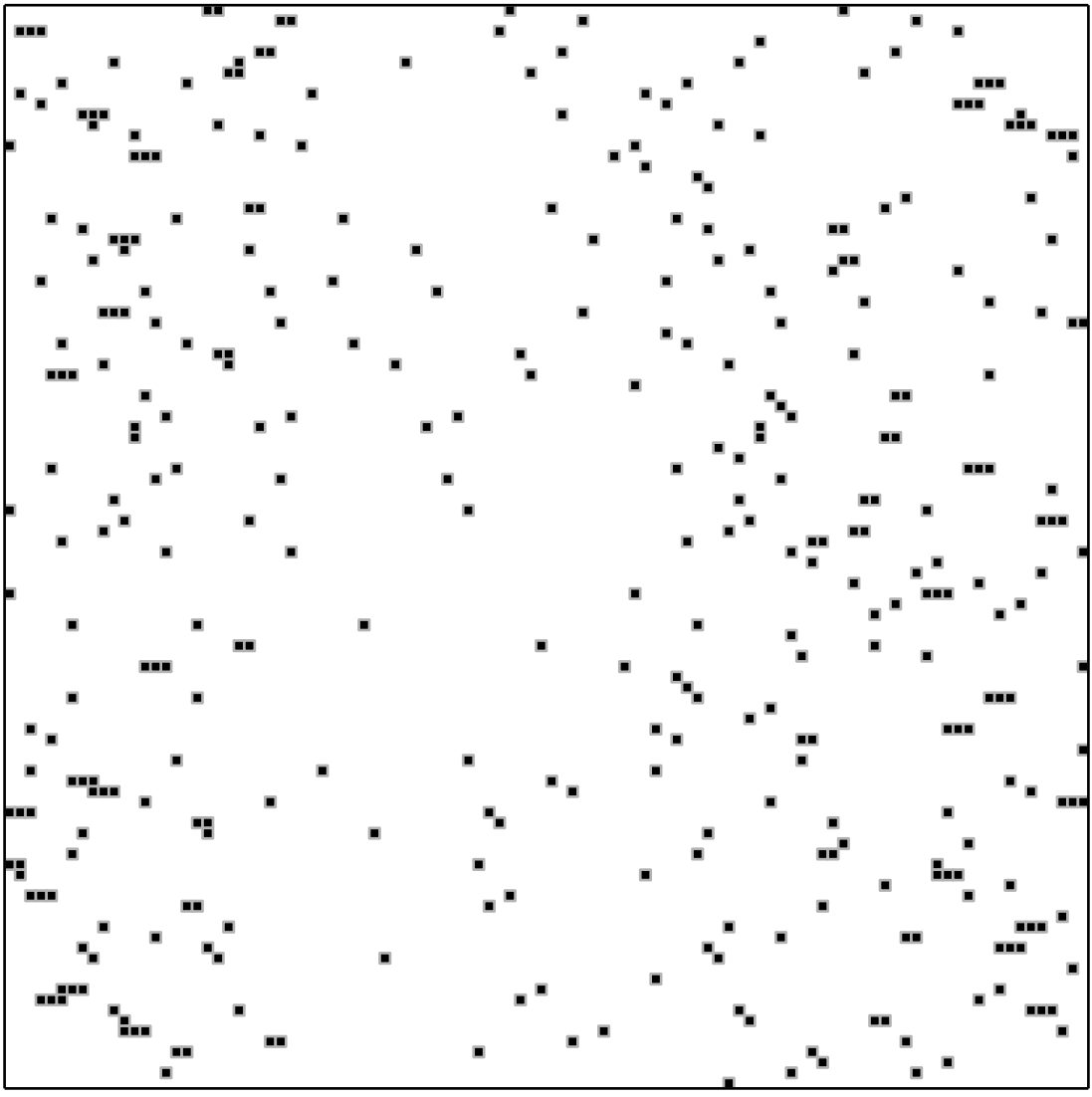
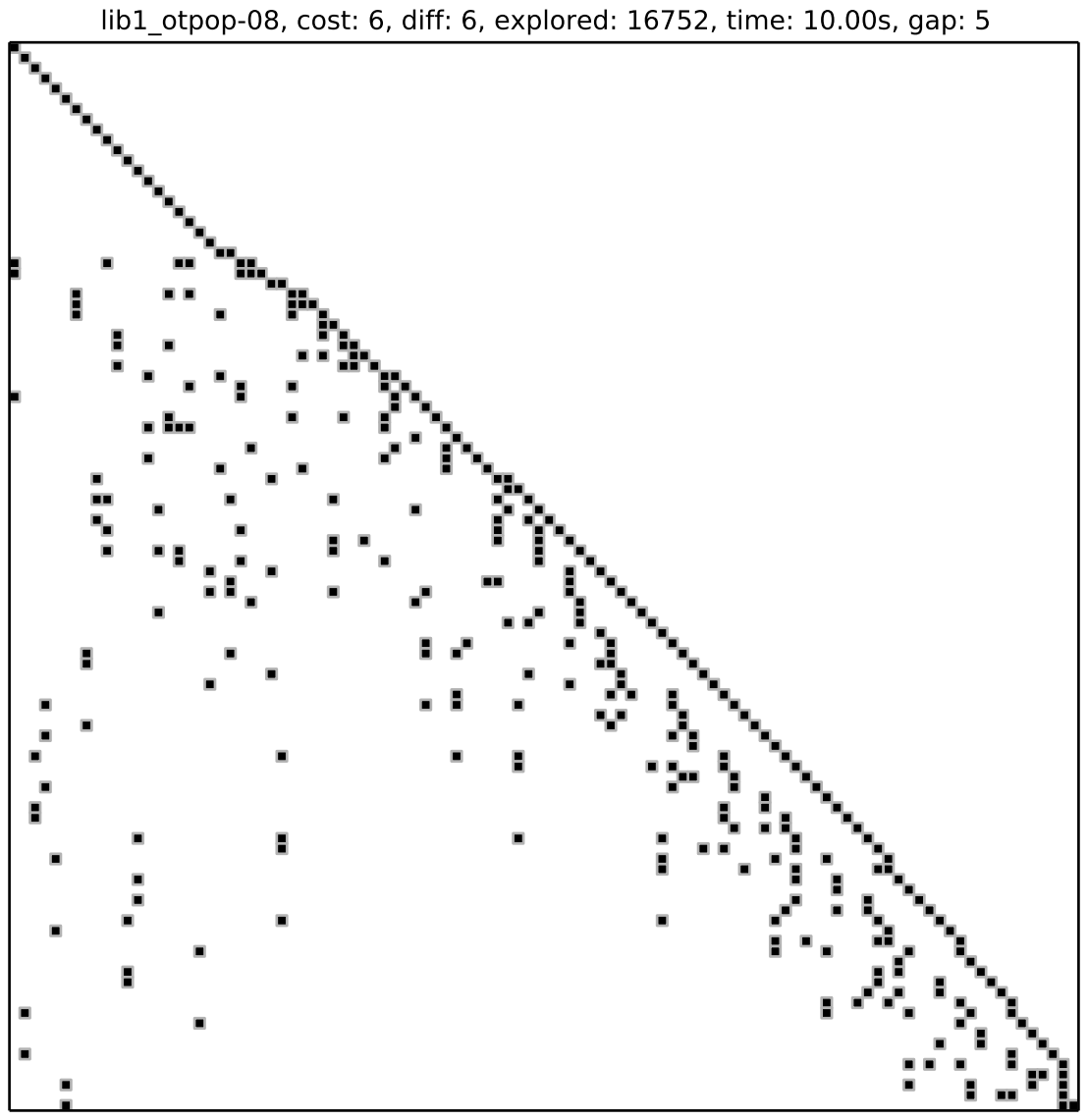
lib1_otpop-08 104x104 (364) con: 44, var: 60

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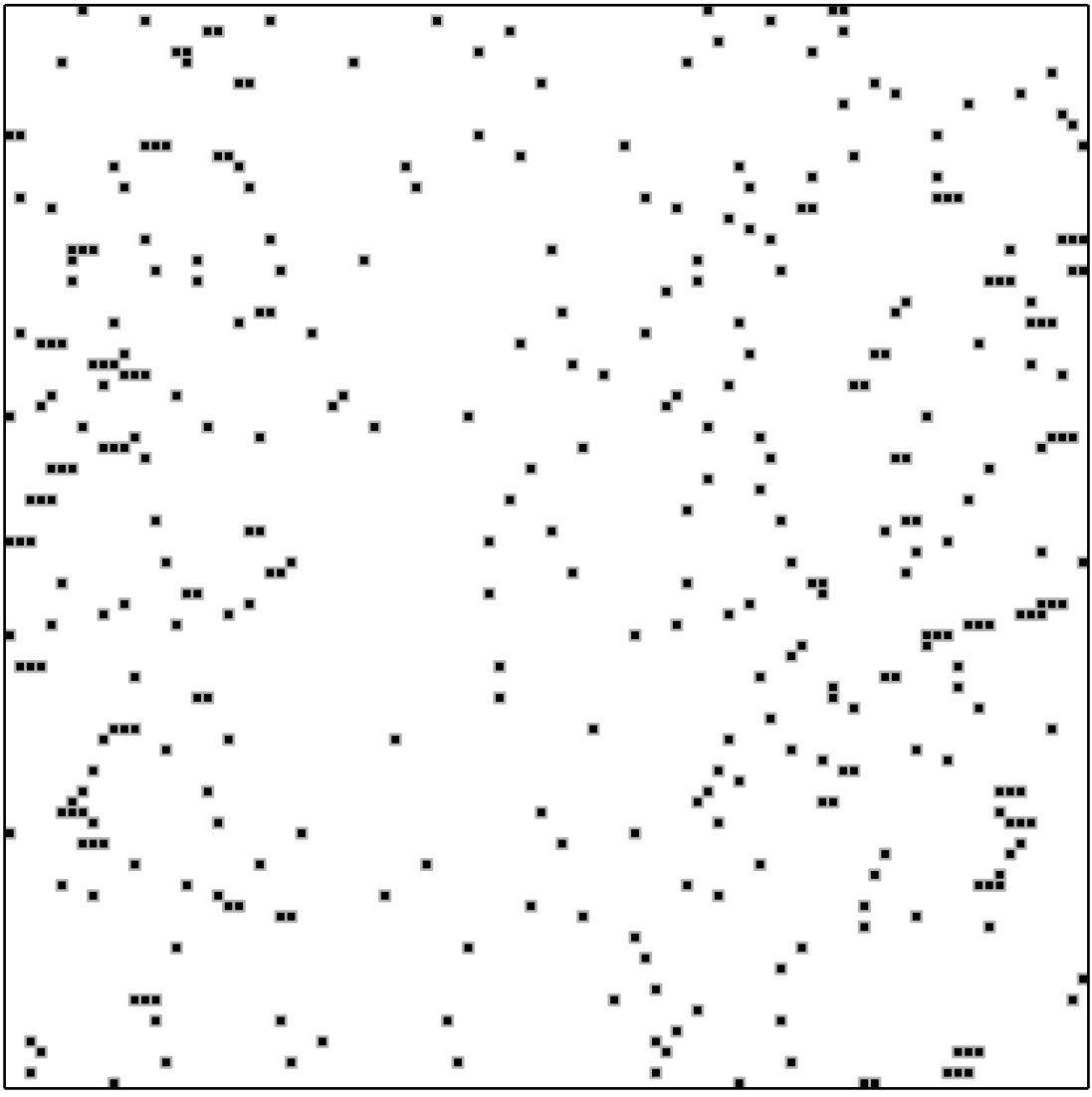
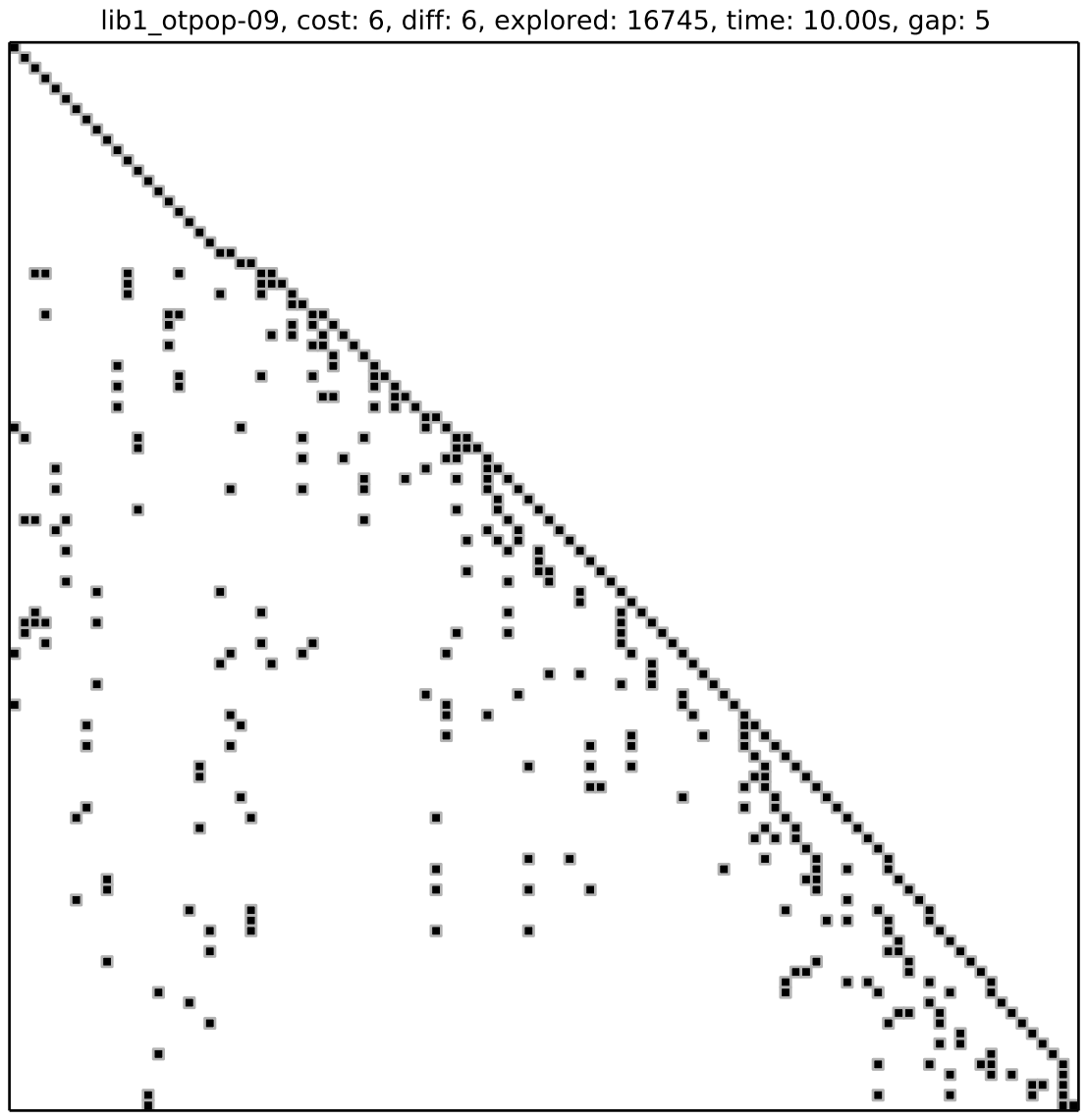
lib1_otpop-09 104x104 (364) con: 44, var: 60

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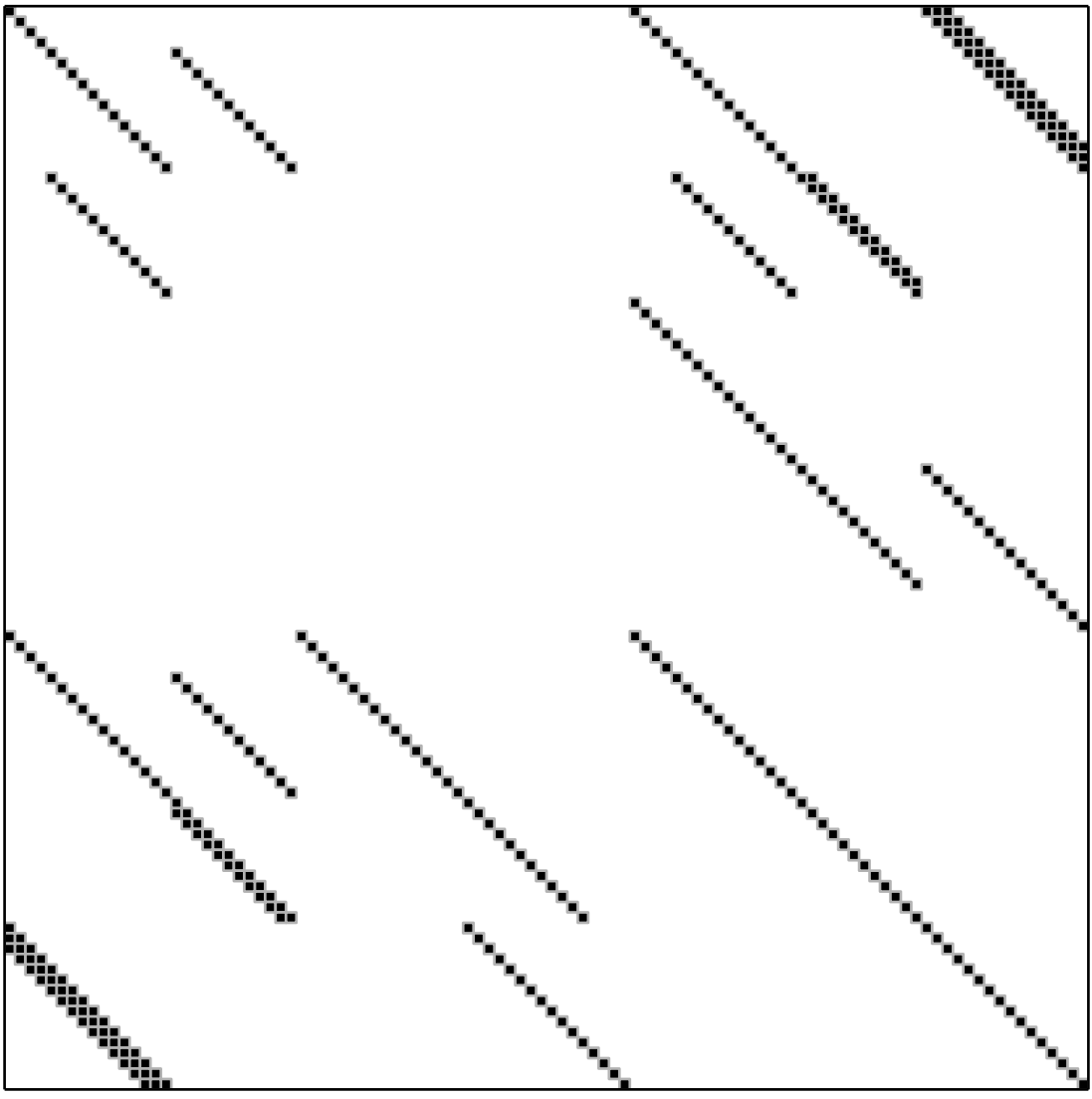
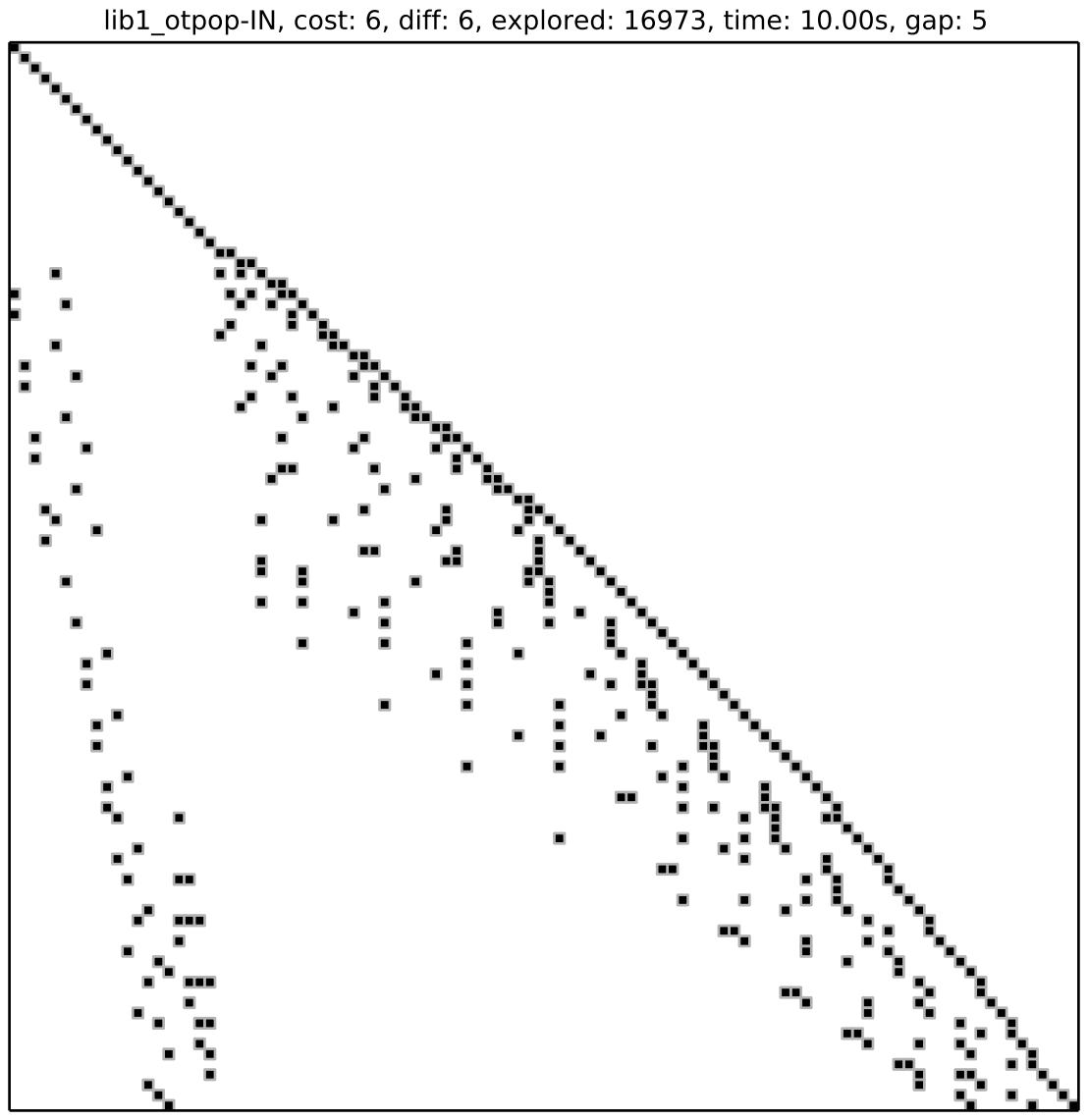

lib1_otpop-IN 104x104 (364) con: 44, var: 60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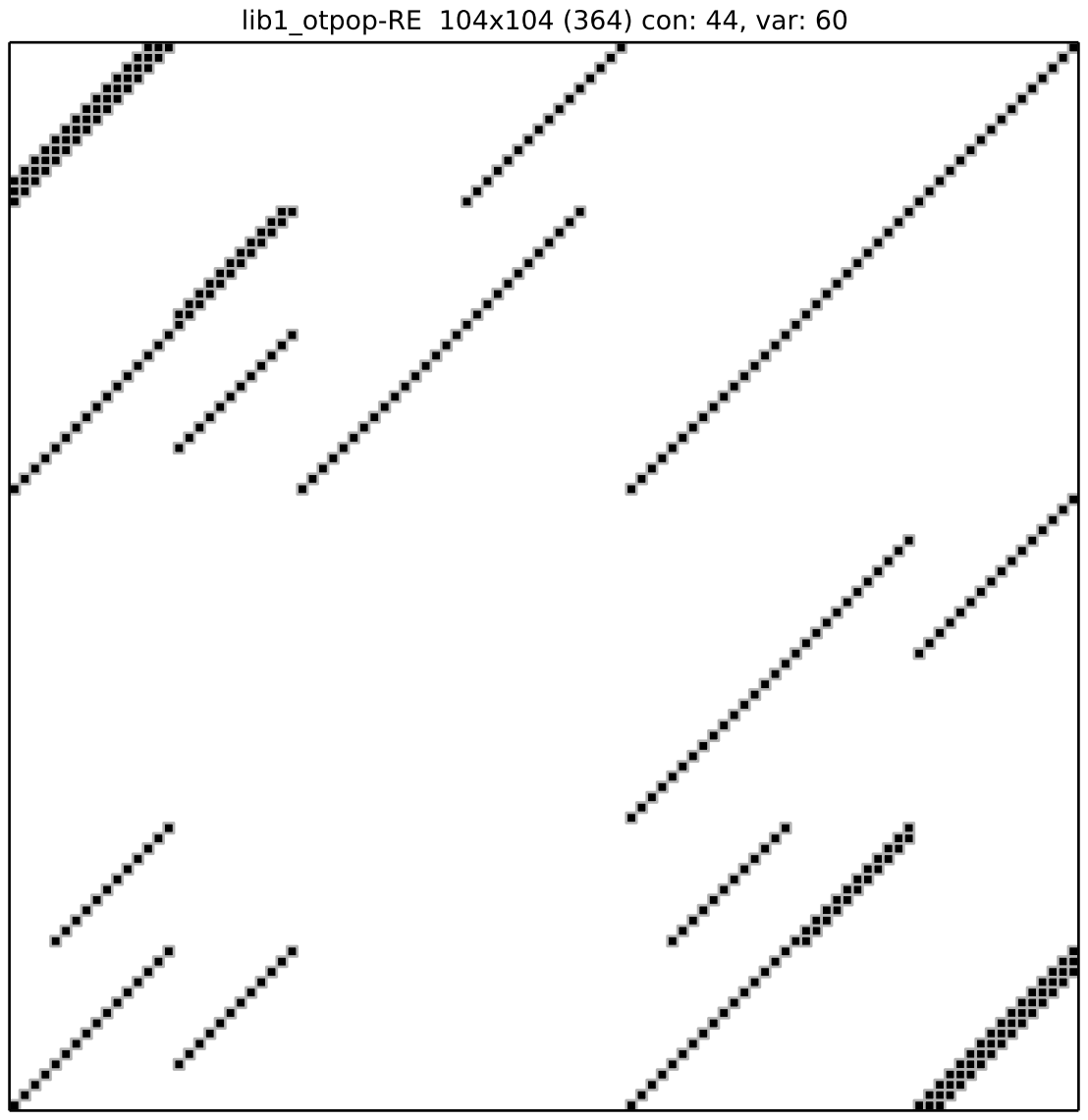
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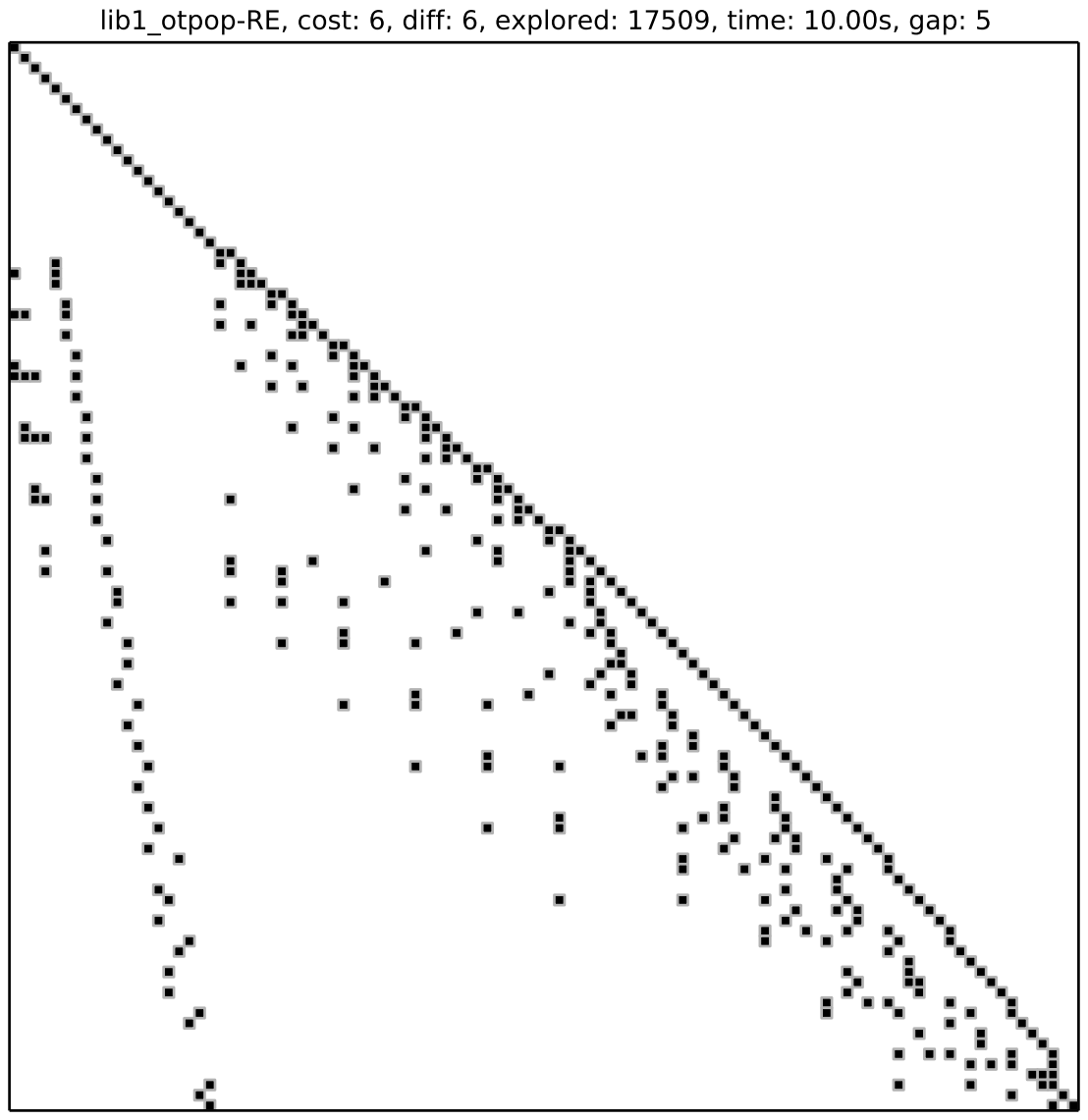
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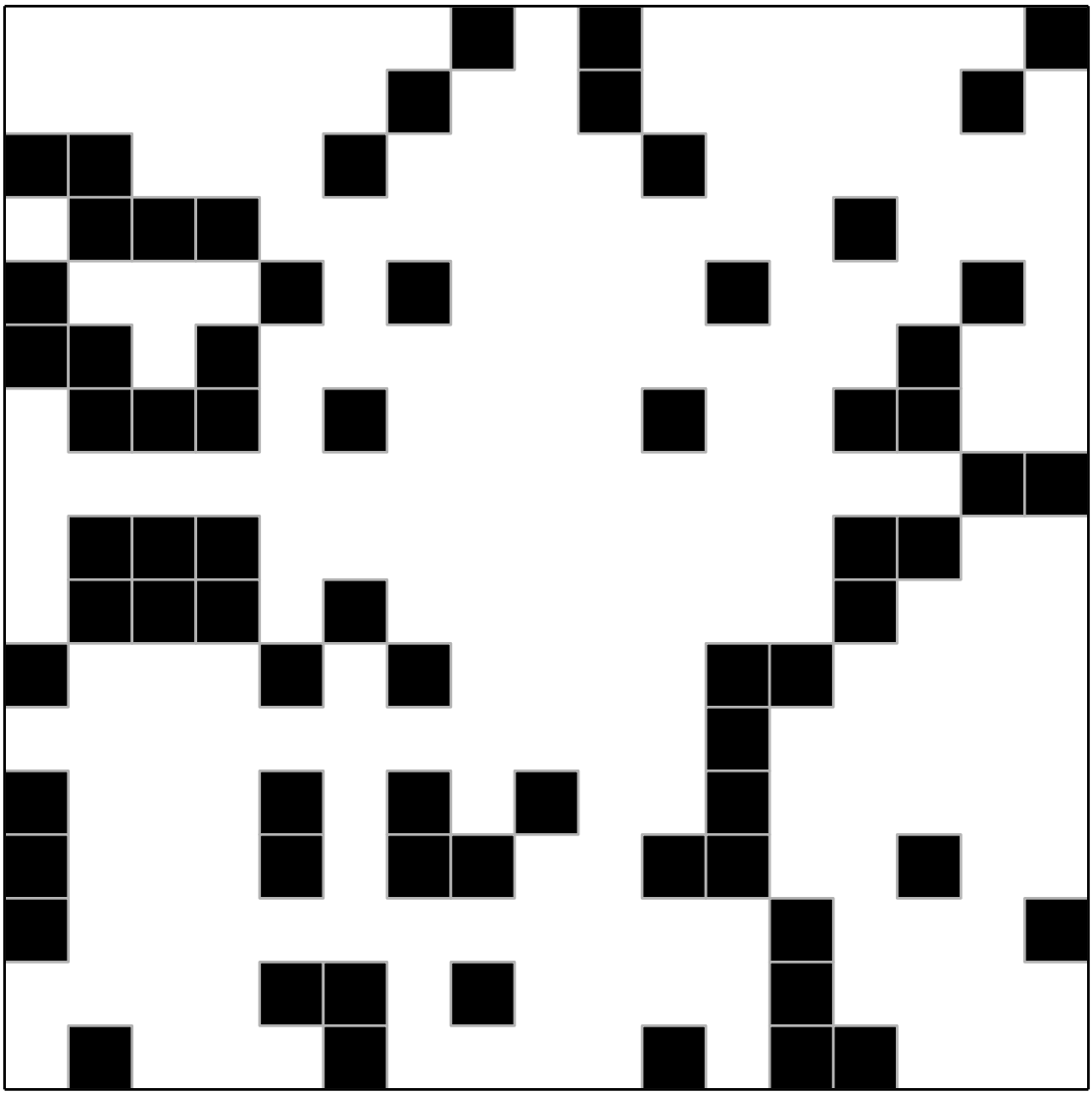
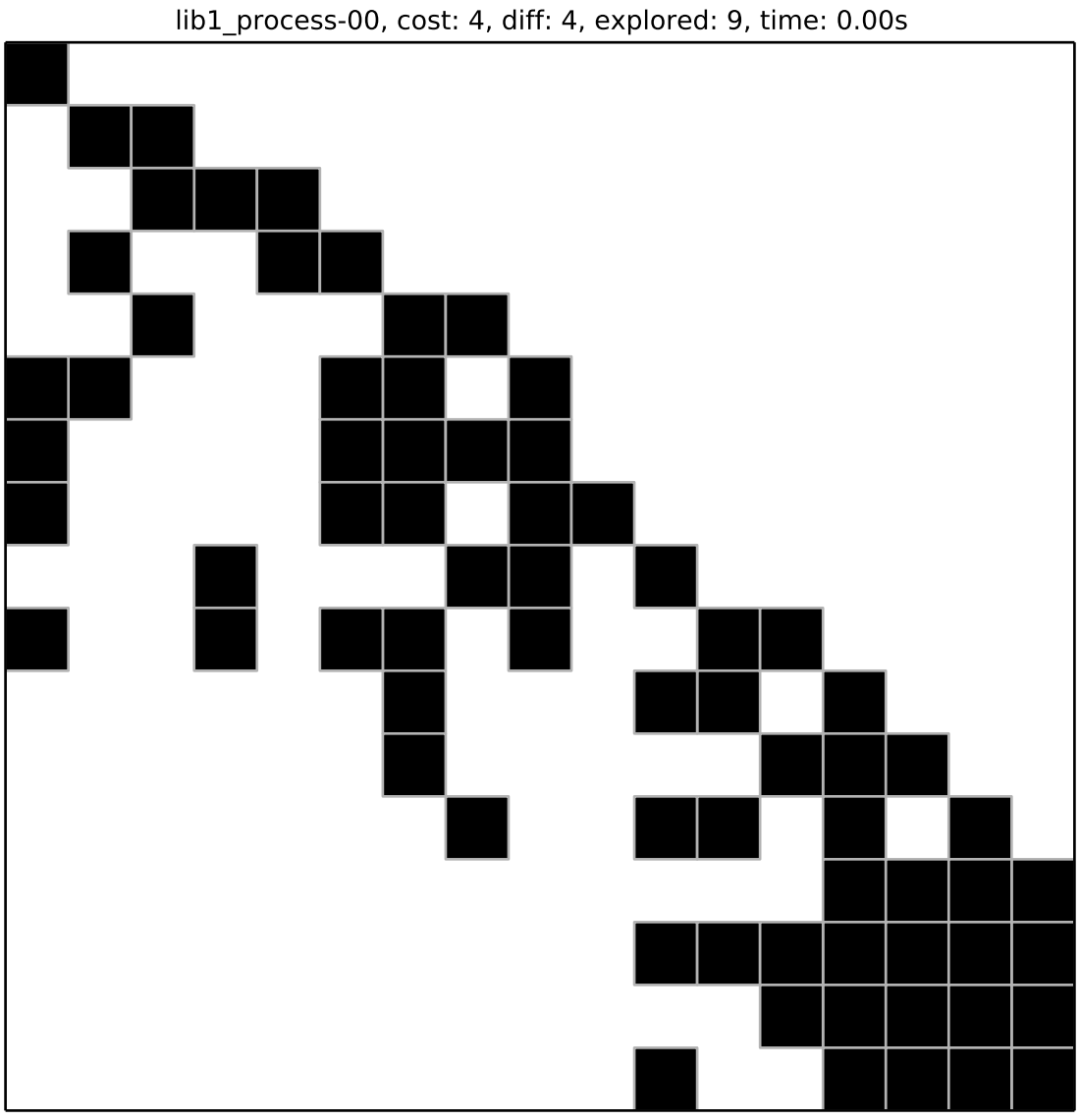

lib1_process-00 17x17 (72) con: 7, var: 10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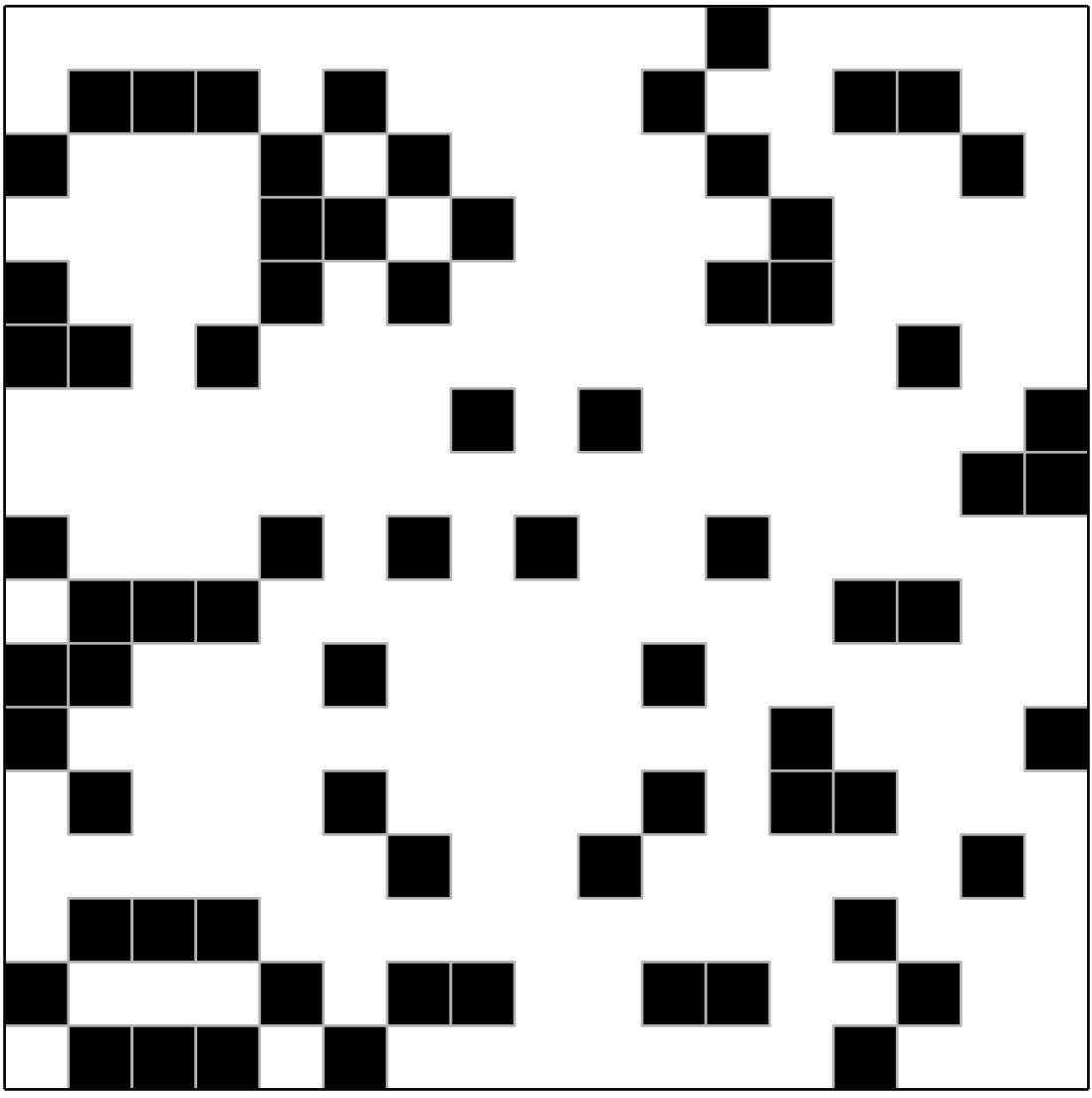
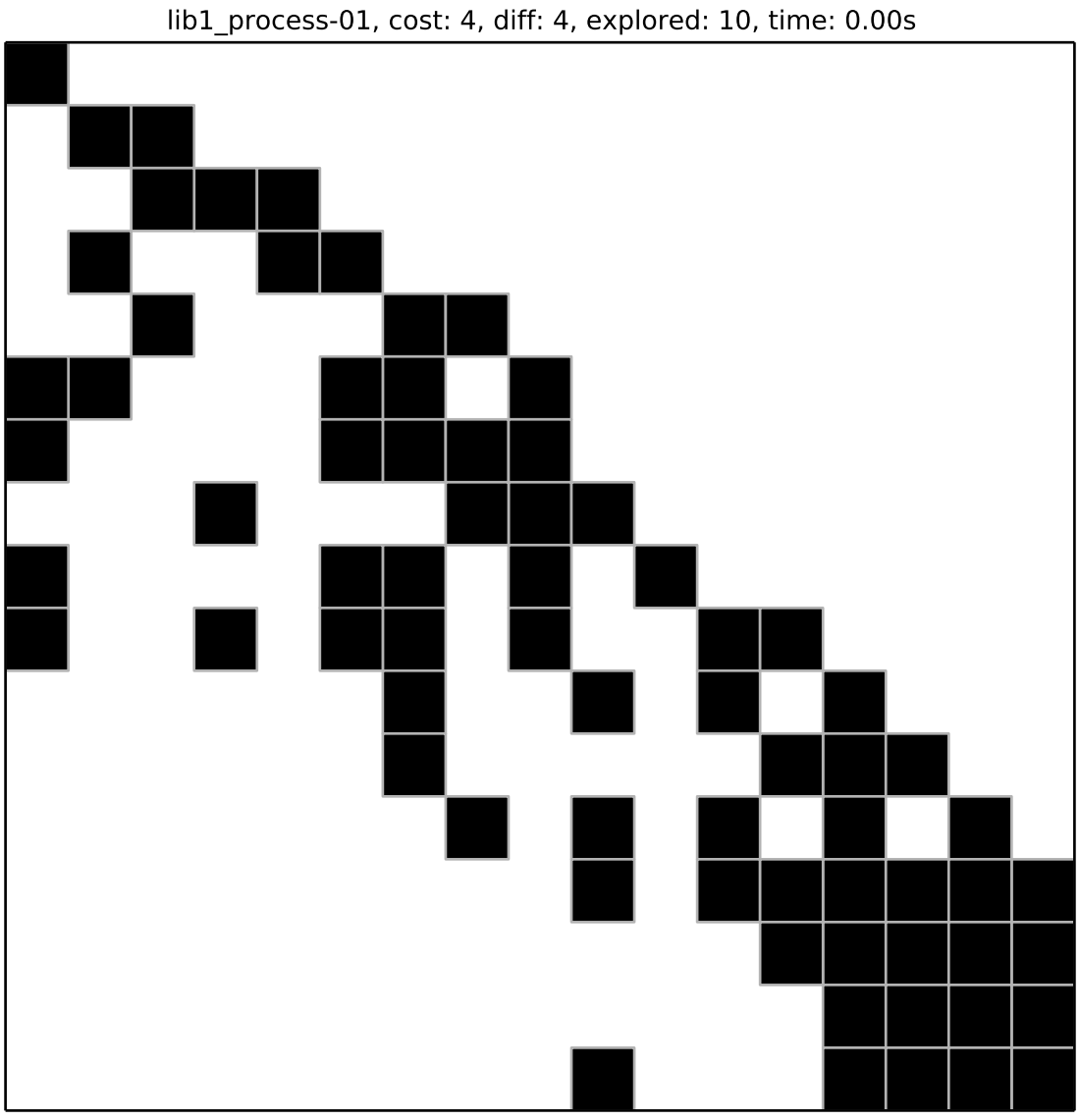

lib1_process-01 17x17 (72) con: 7, var: 10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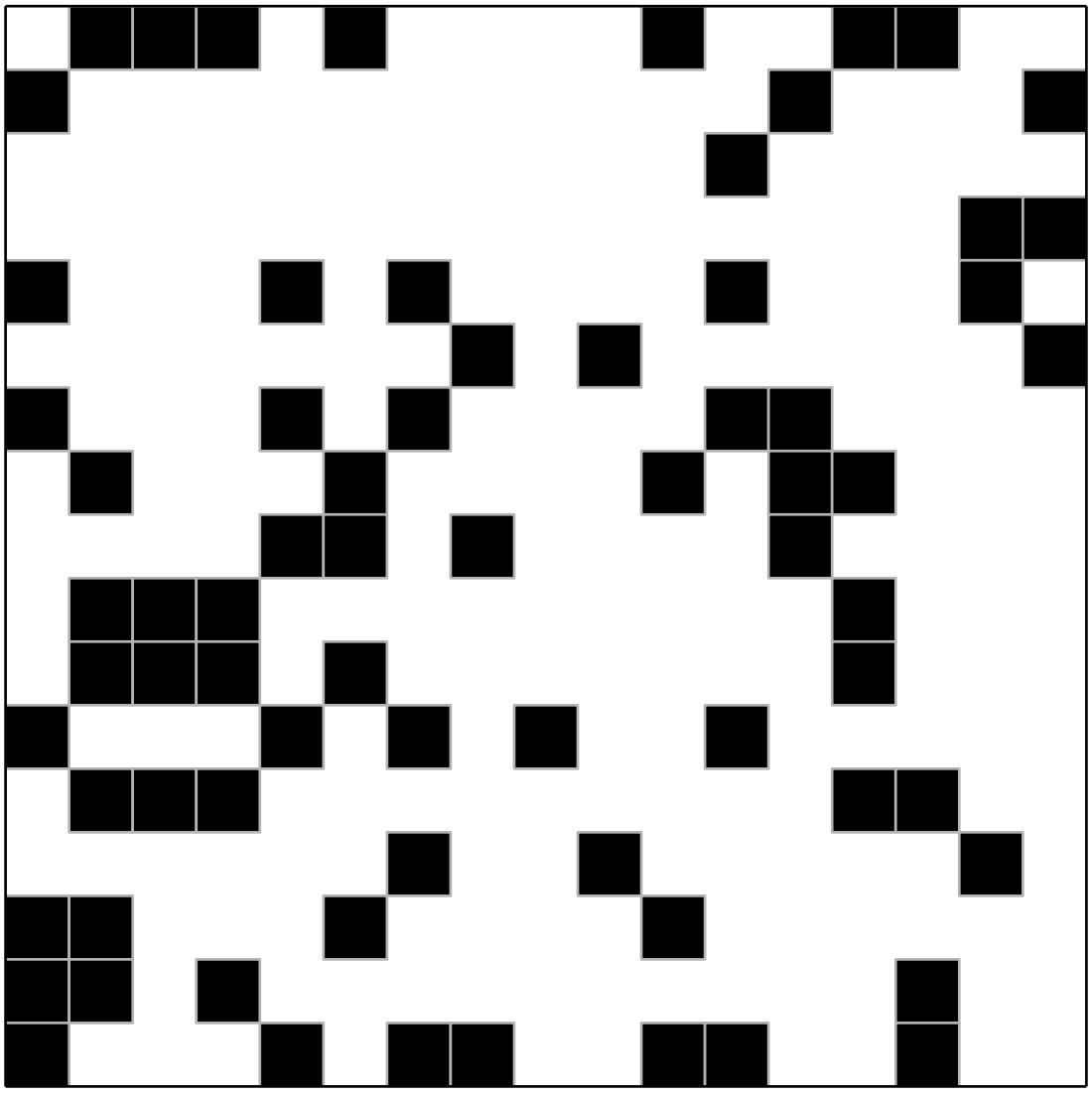
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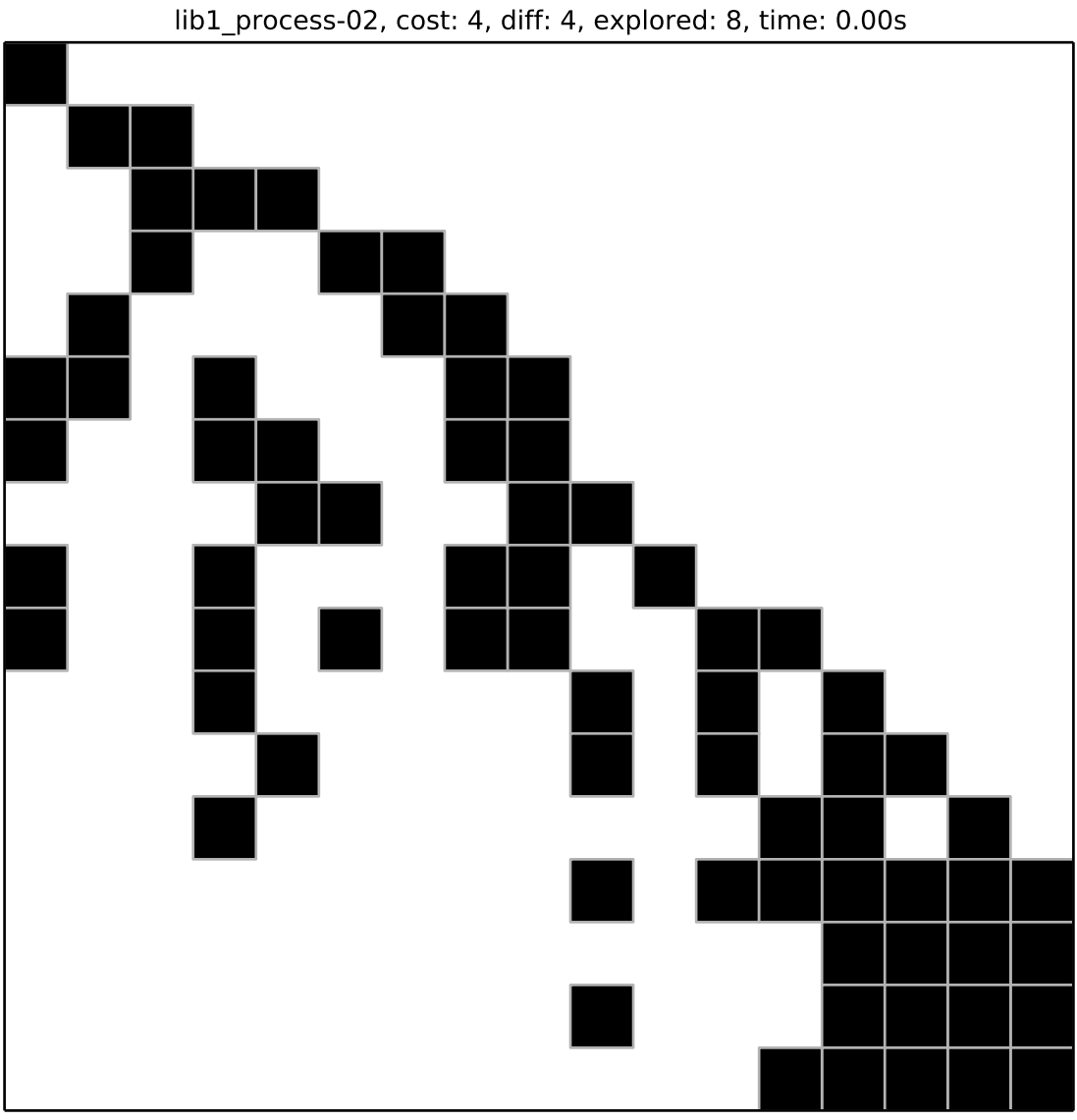
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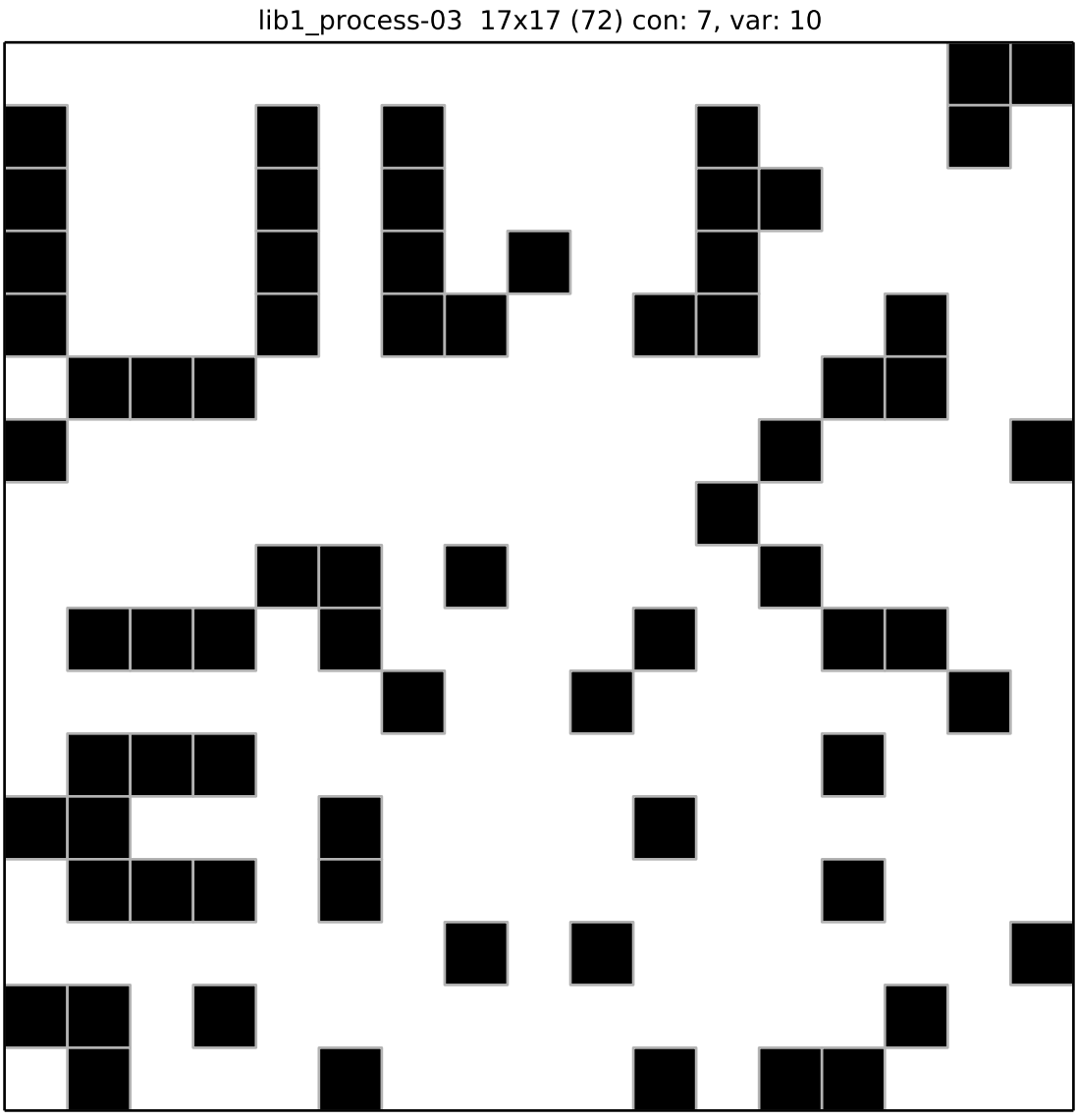
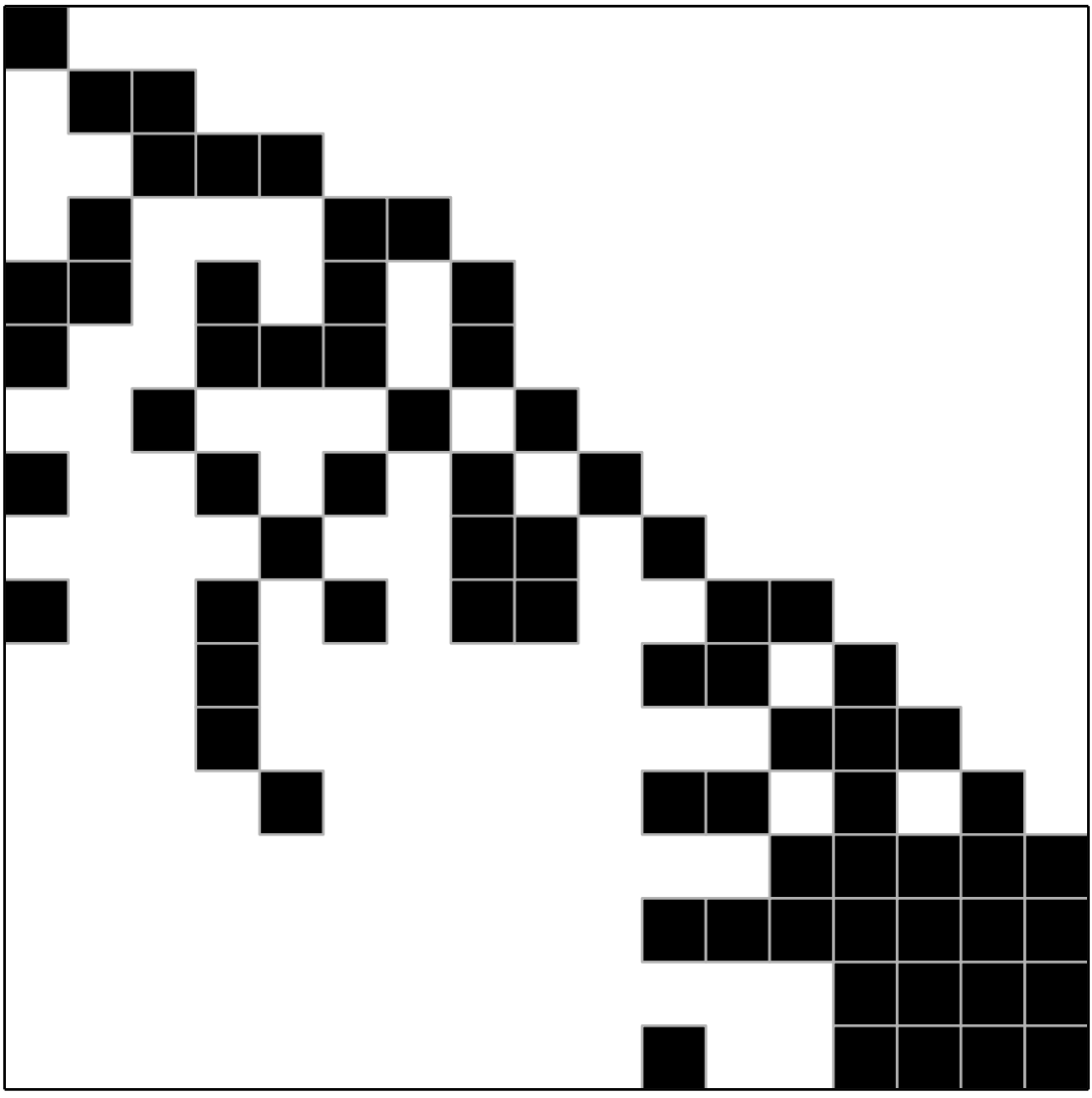

lib1_process-03 17x17 (72) con: 7, var: 10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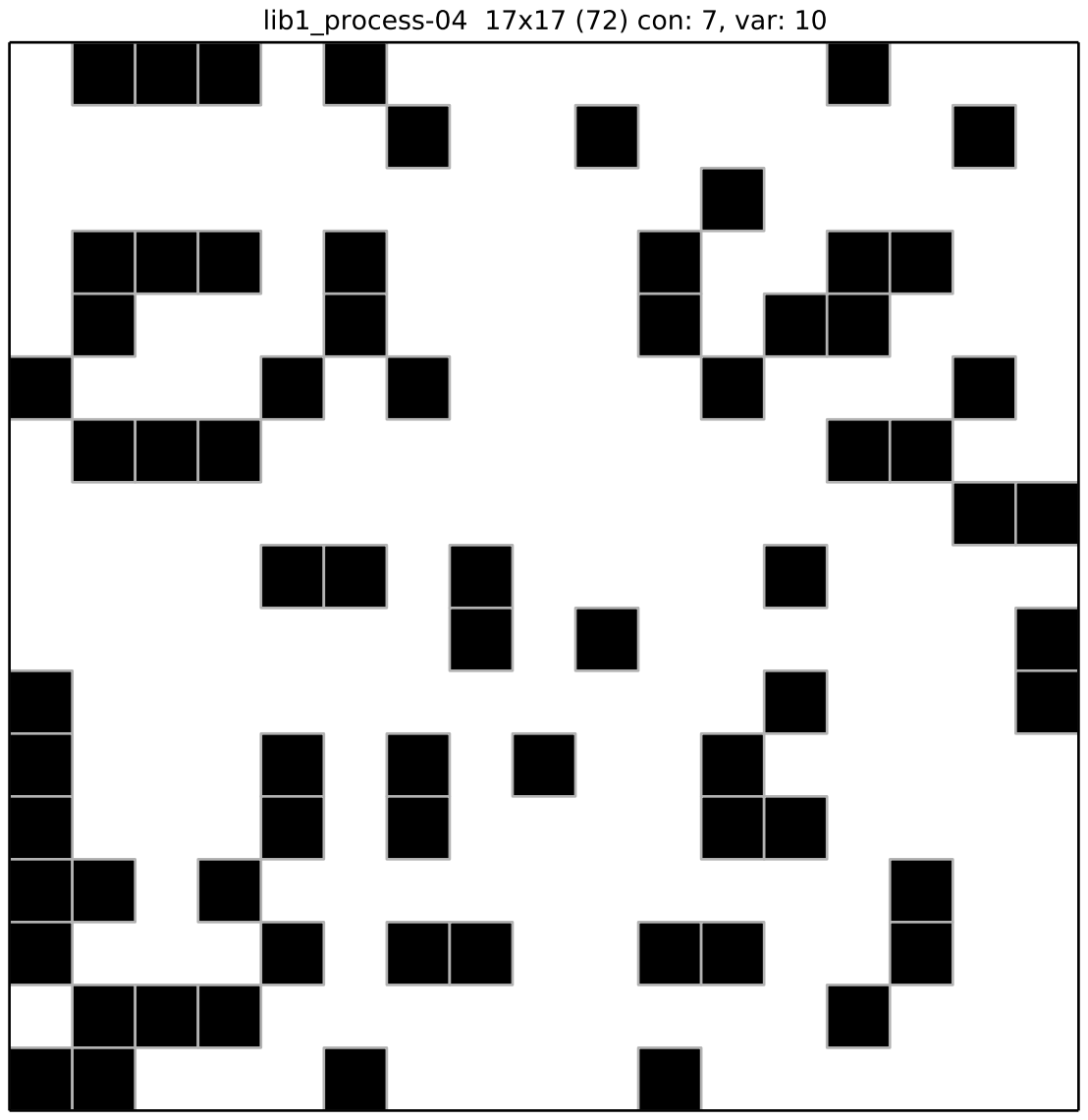
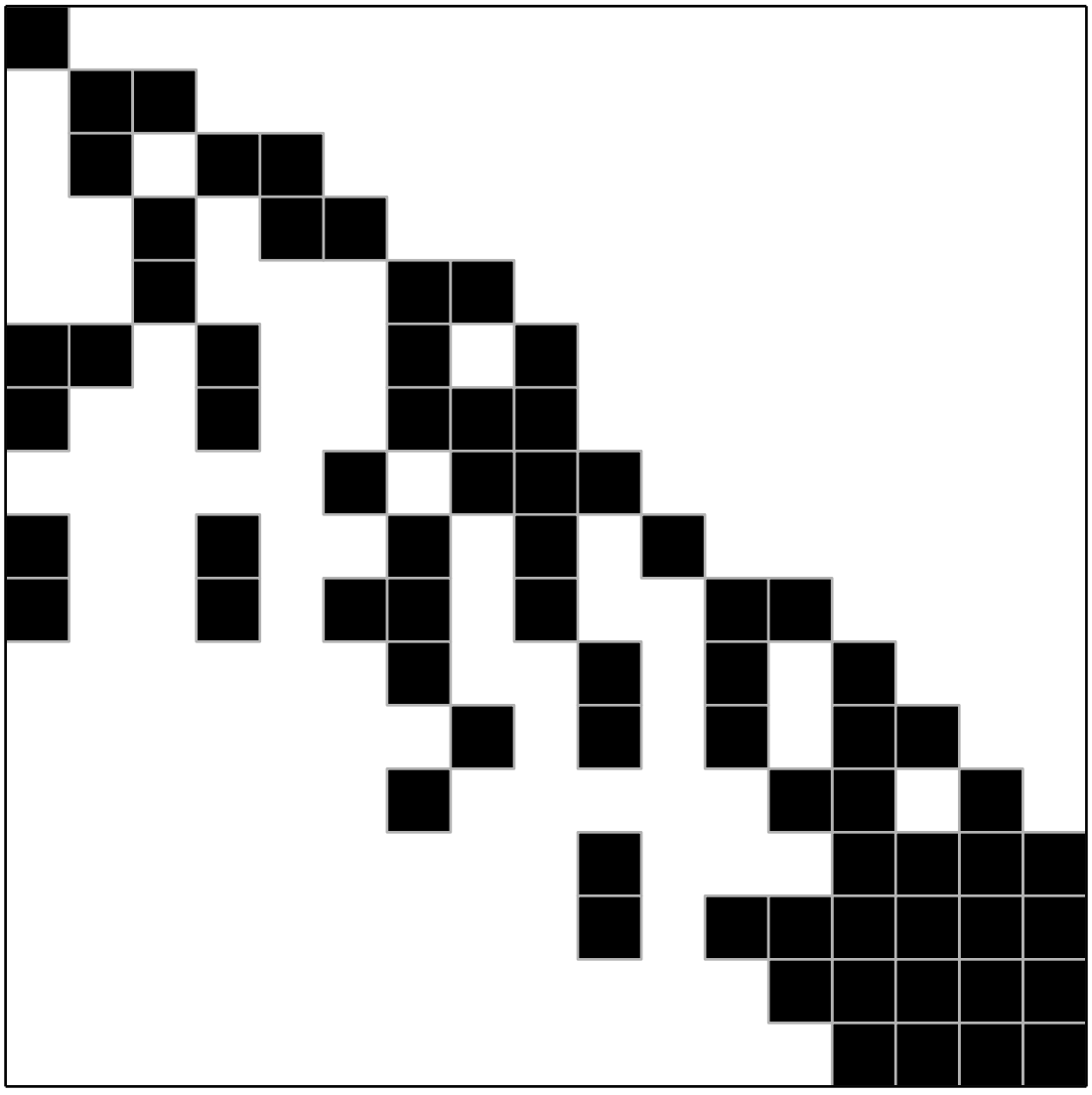
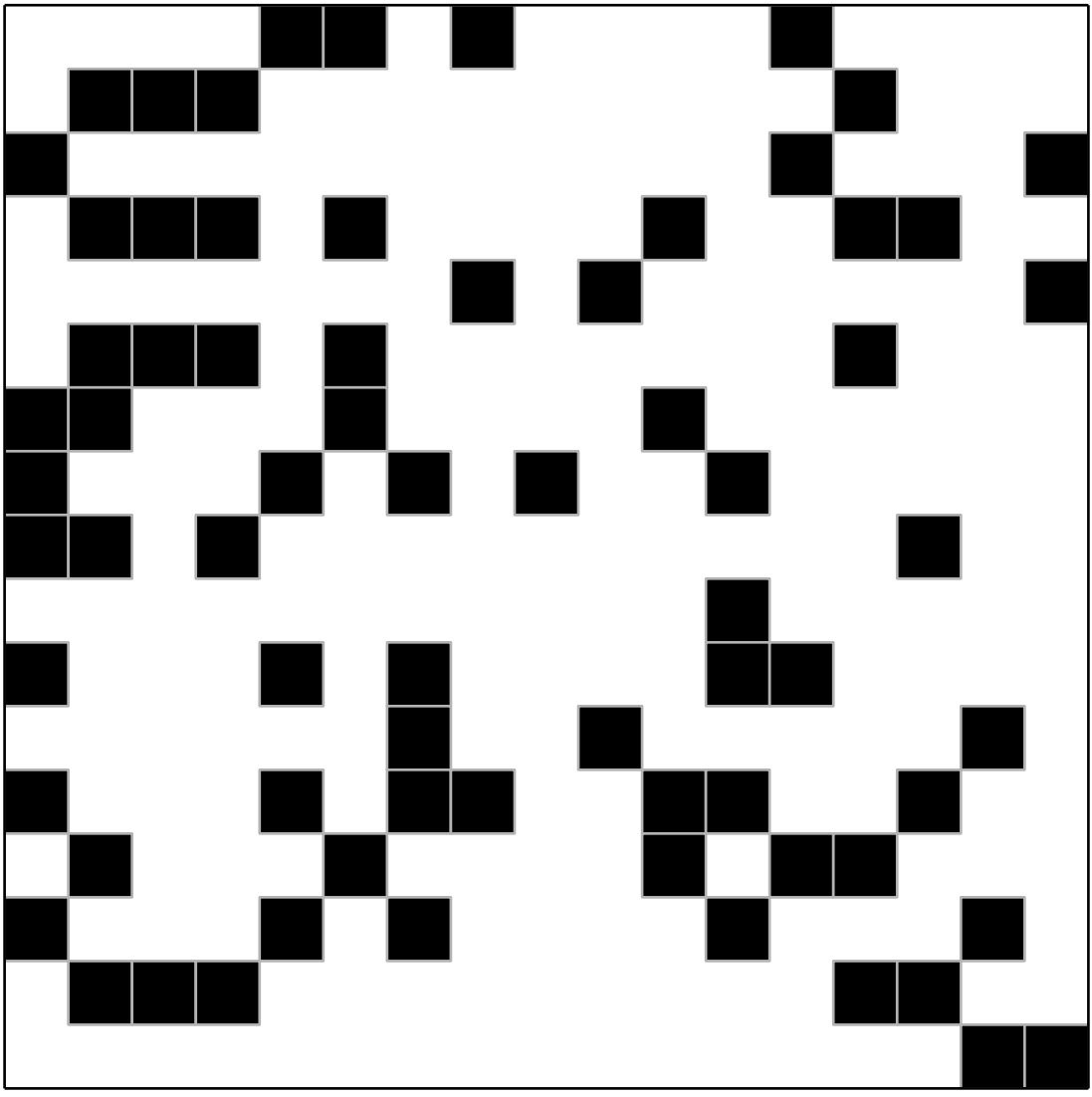
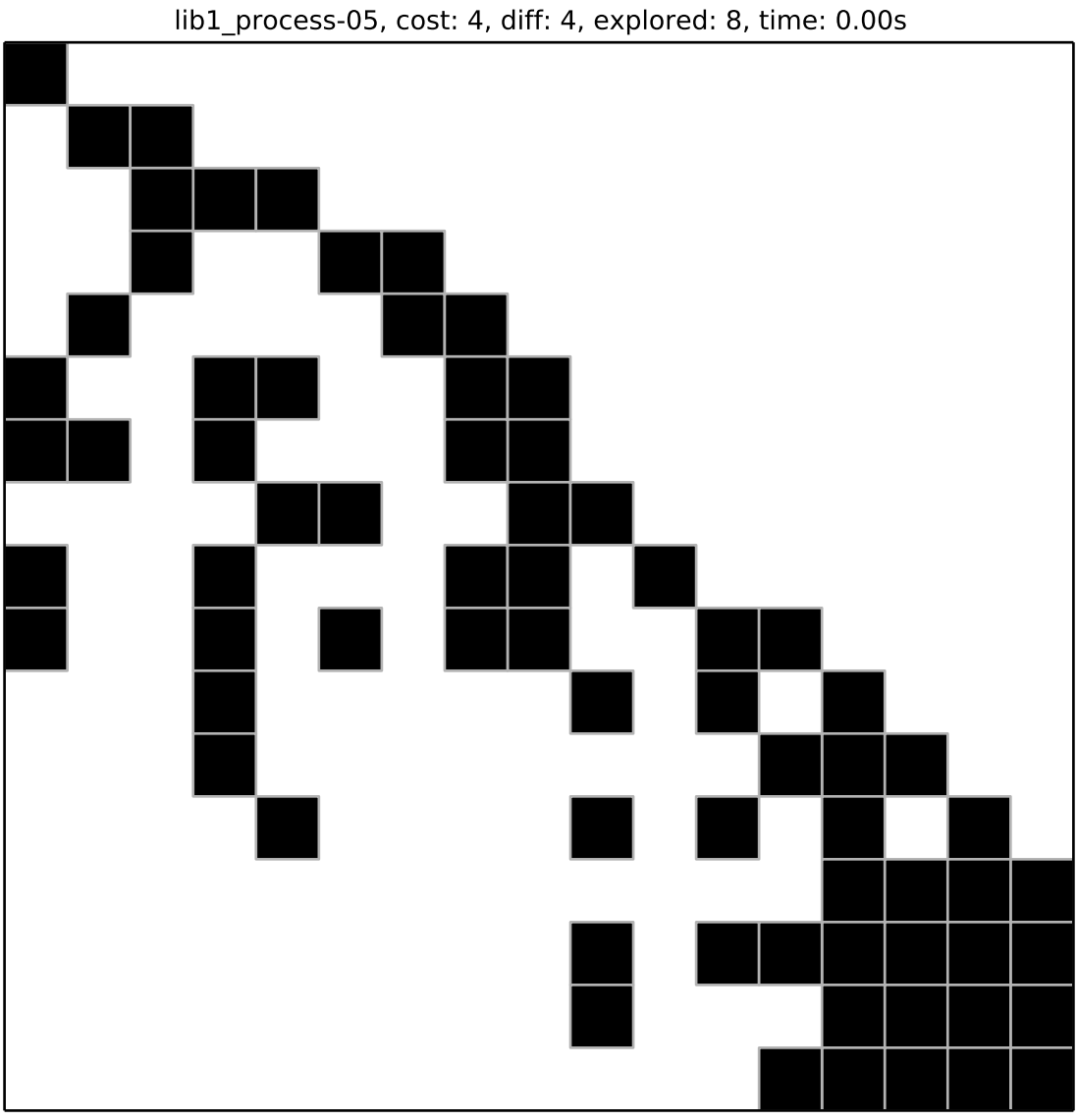

lib1_process-04 17x17 (72) con: 7, var: 10


lib1_process-04, cost: 4, diff: 4, explored: 9, time: 0.00s

lib1_process-05 17x17 (72) con: 7, var: 10

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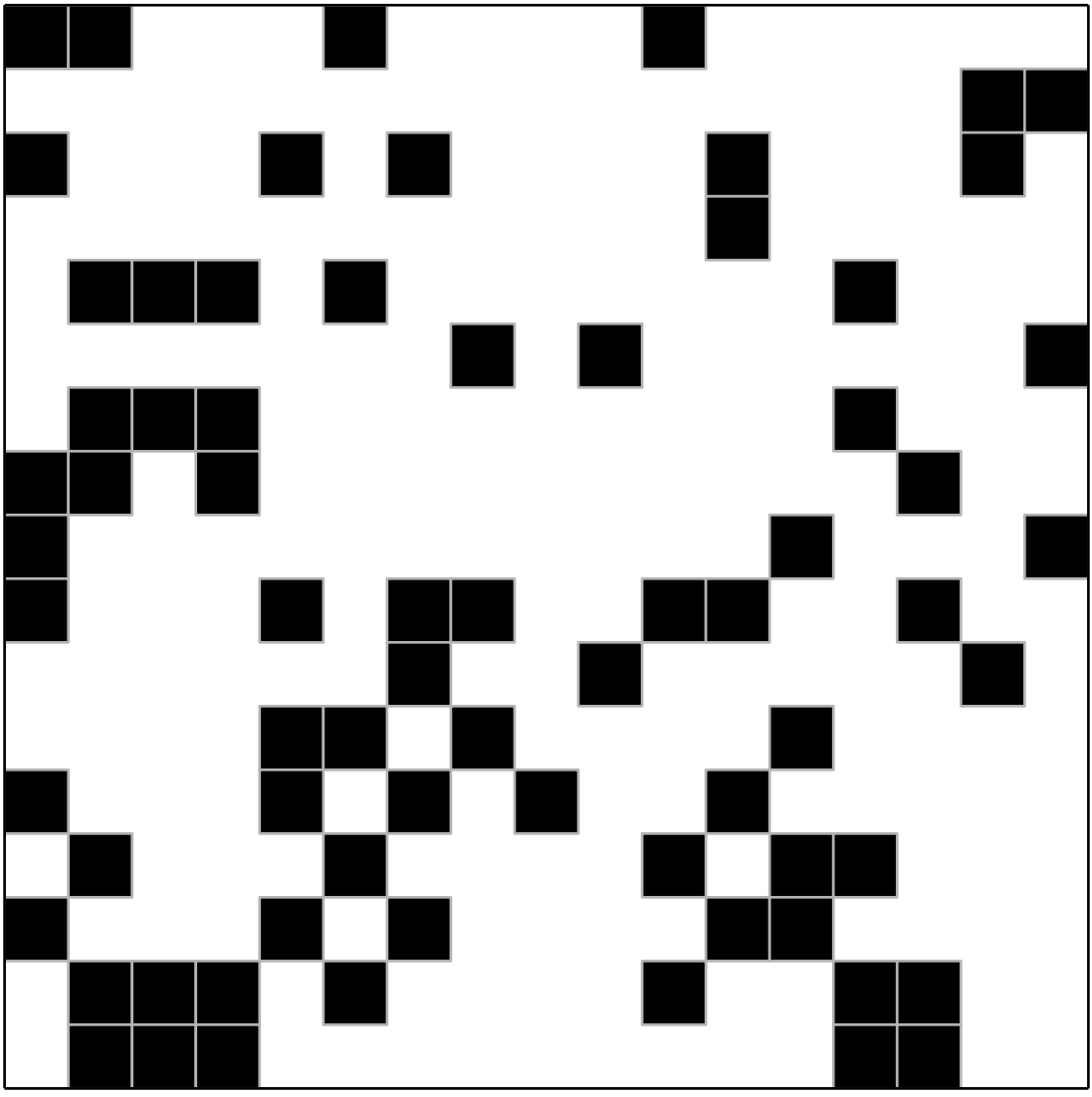
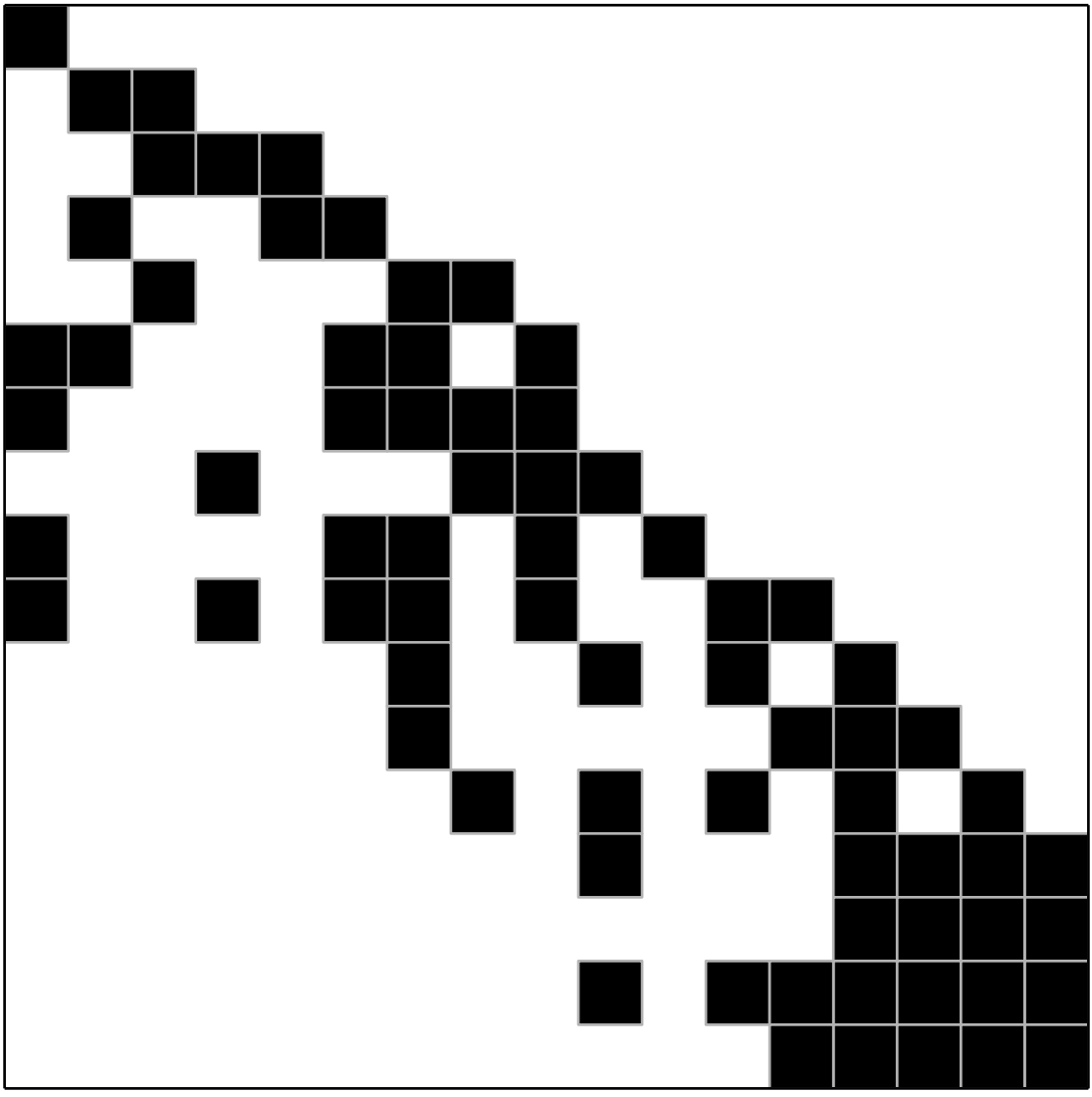
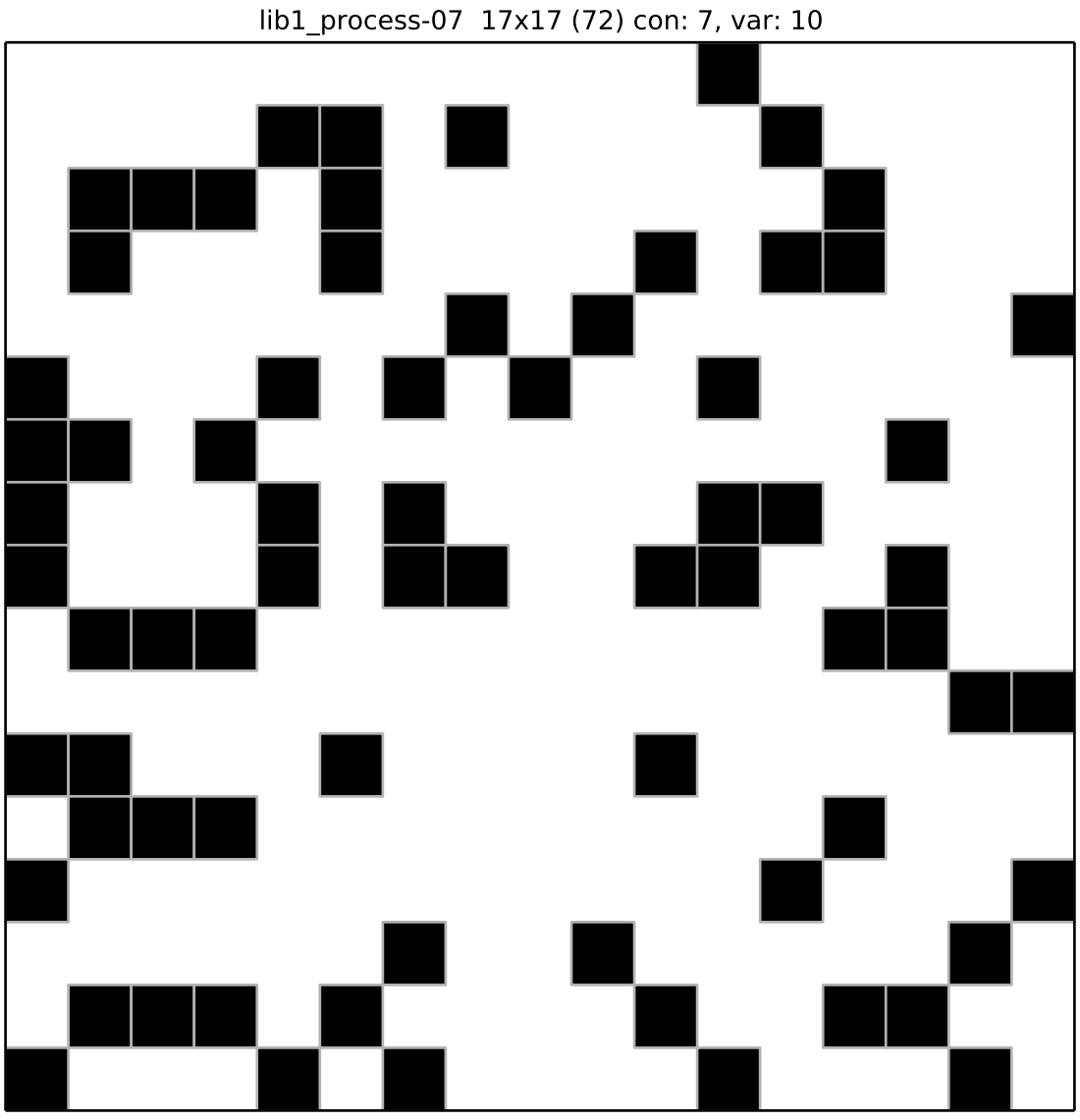
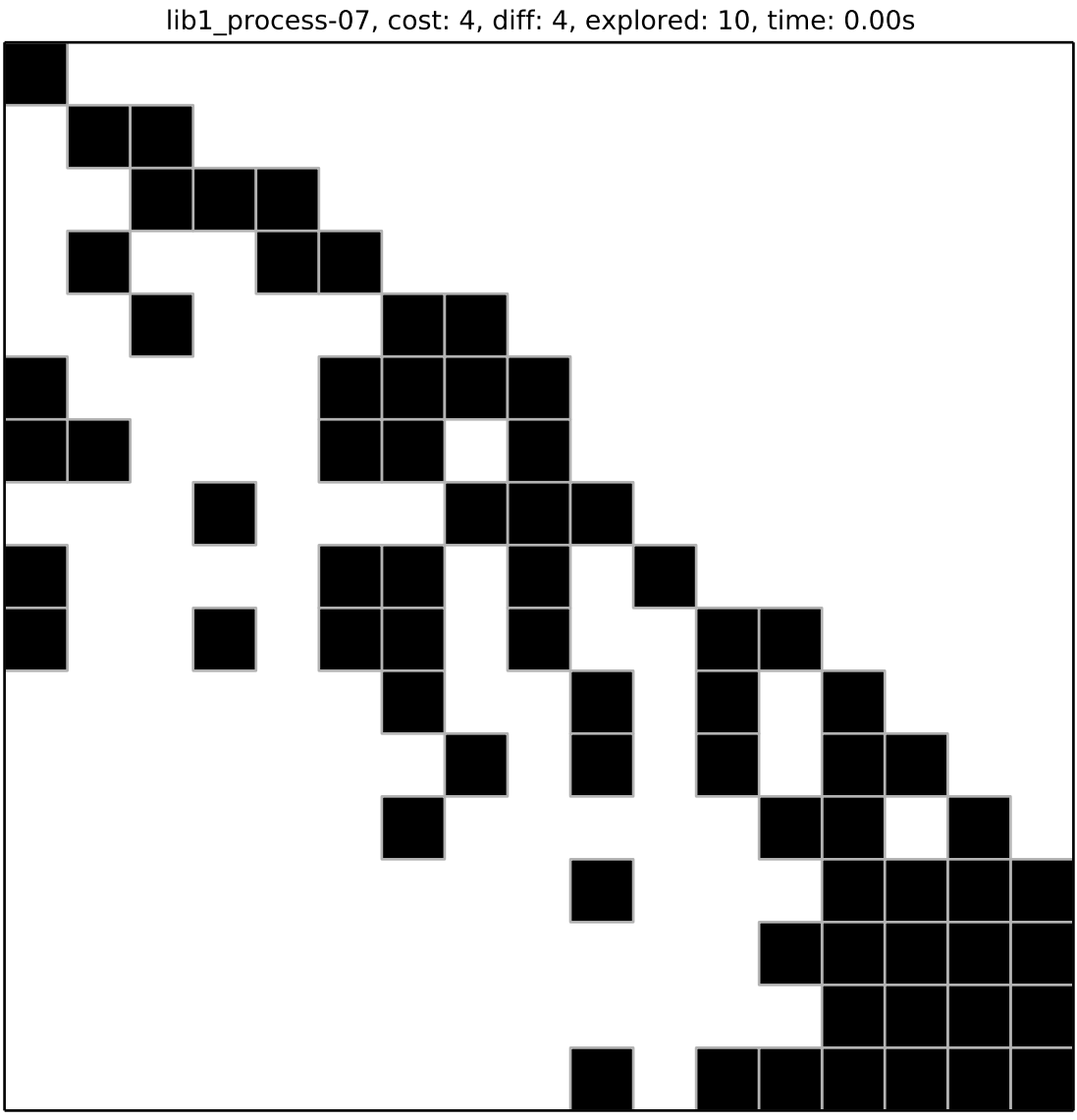
lib1_process-06 17x17 (72) con: 7, var: 10



lib1_process-06, cost: 4, diff: 4, explored: 9, time: 0.00s




lib1_process-07 17x17 (72) con: 7, var: 10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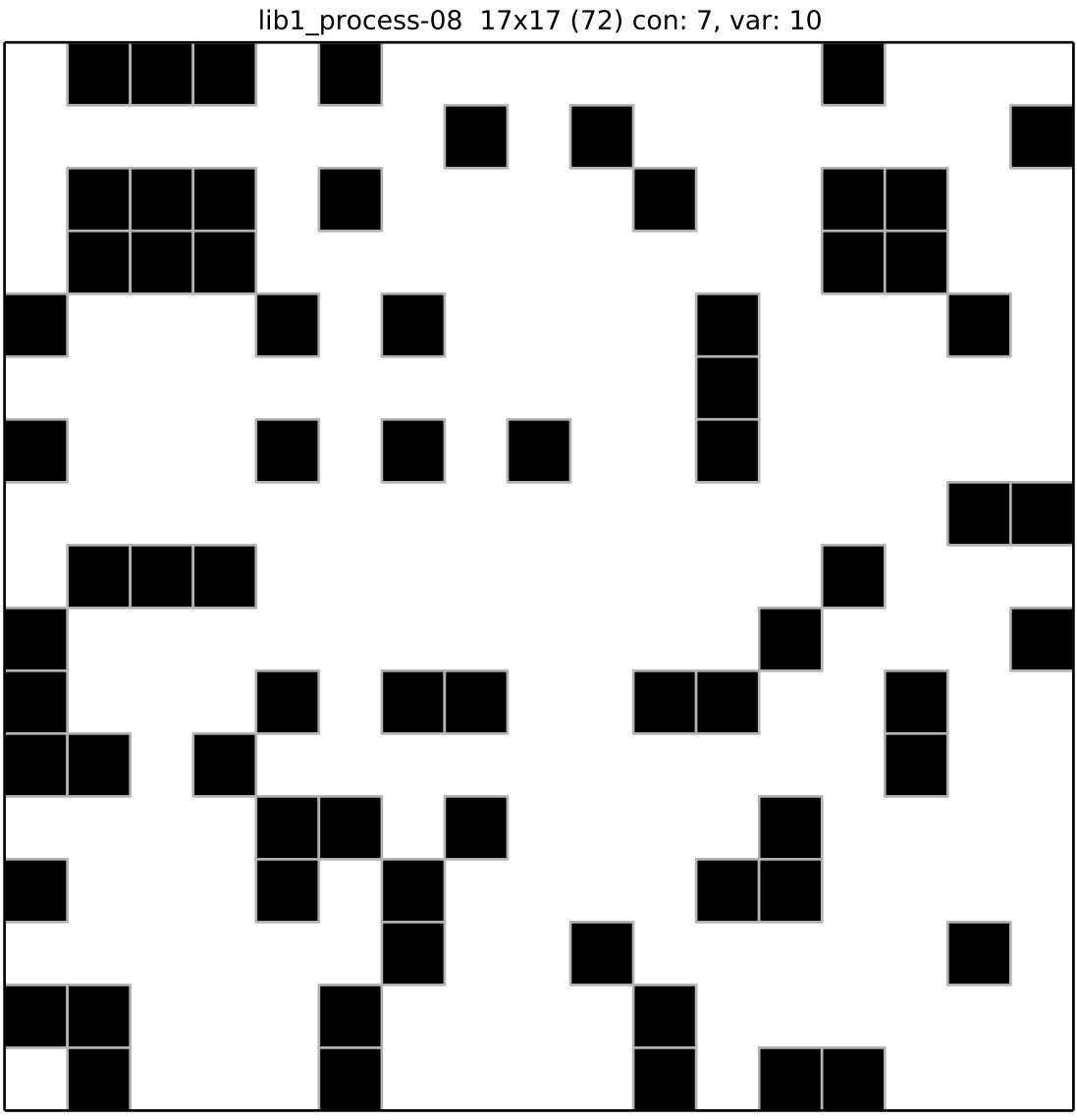
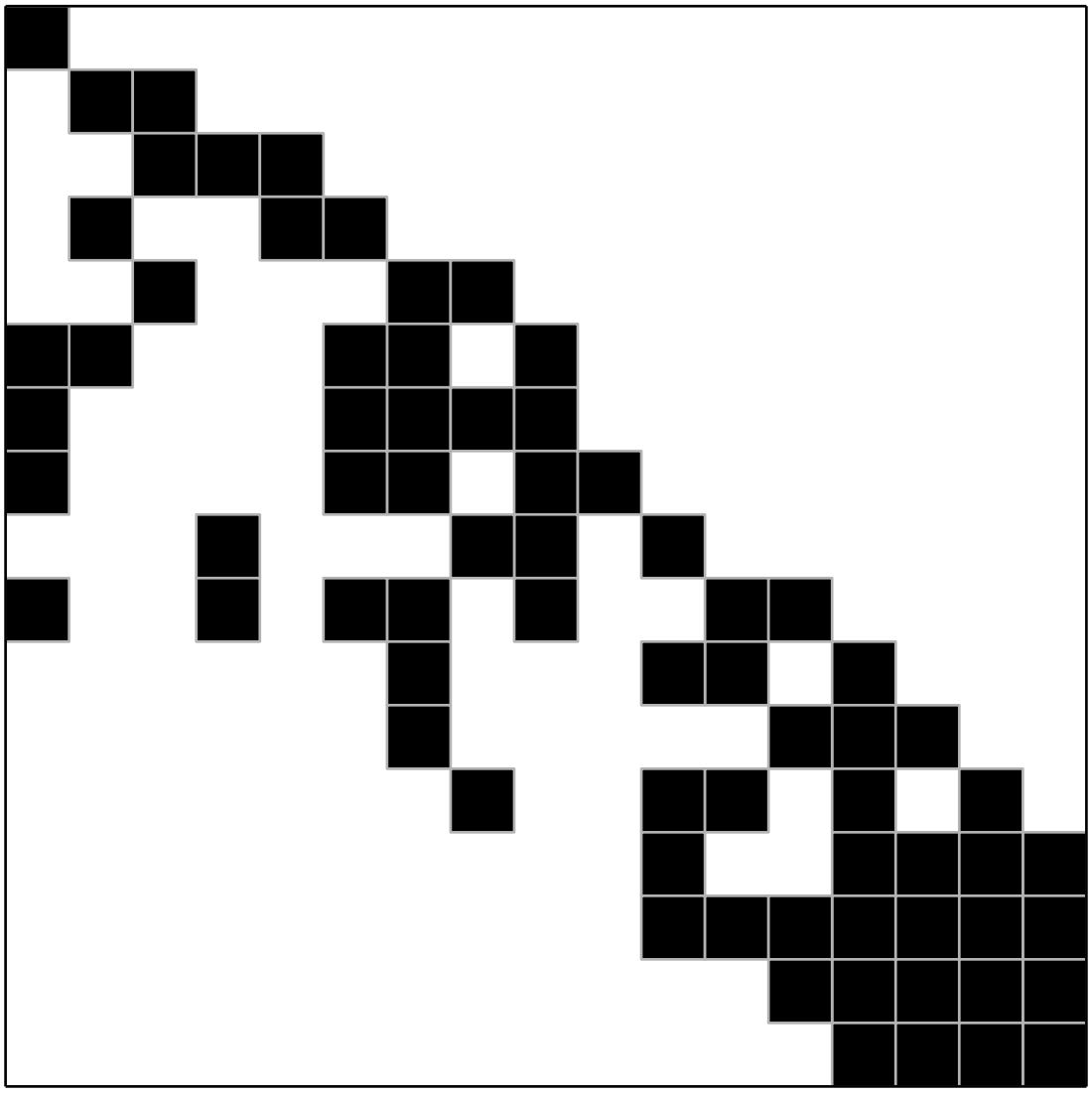

lib1_process-08 17x17 (72) con: 7, var: 10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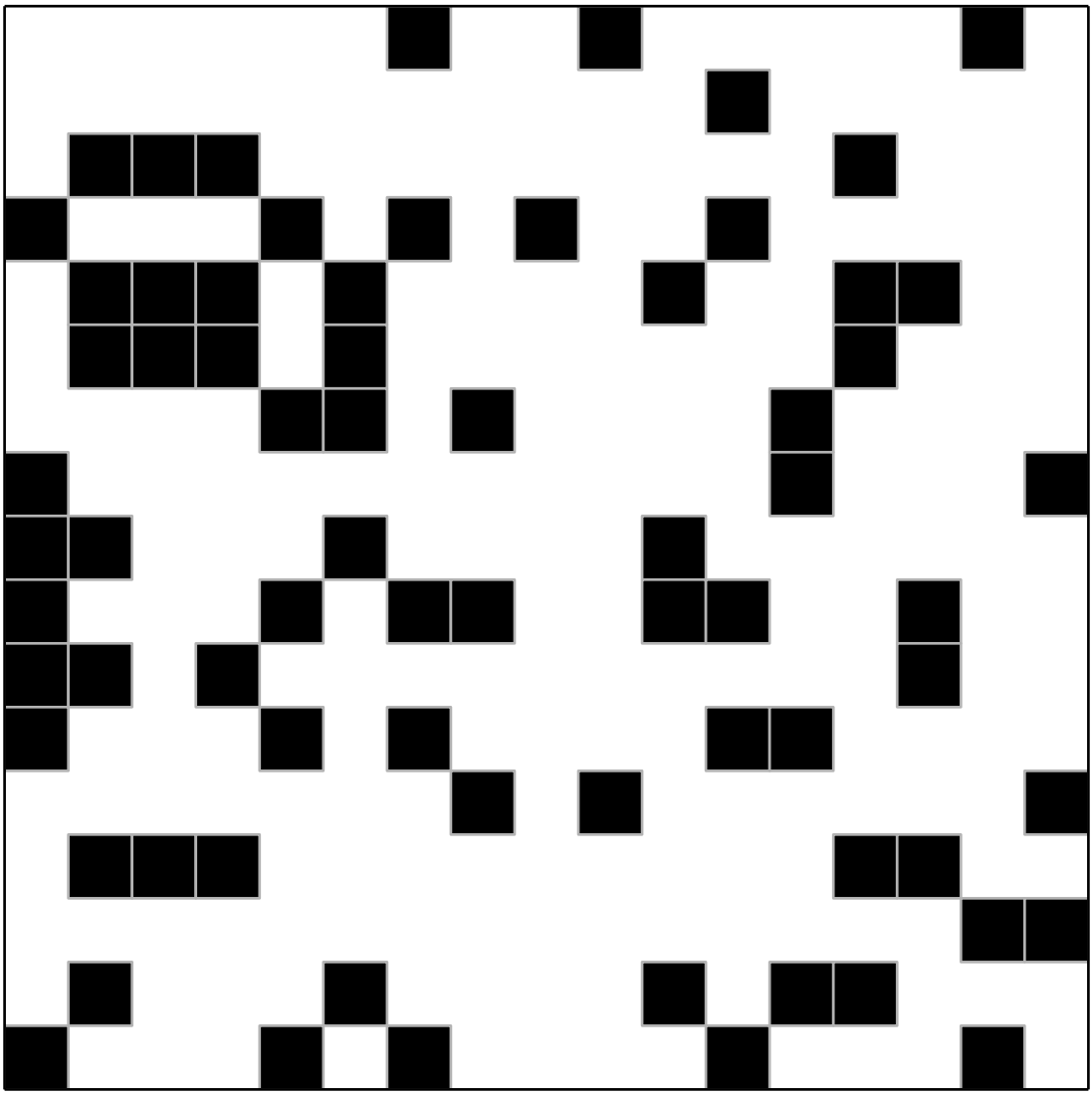
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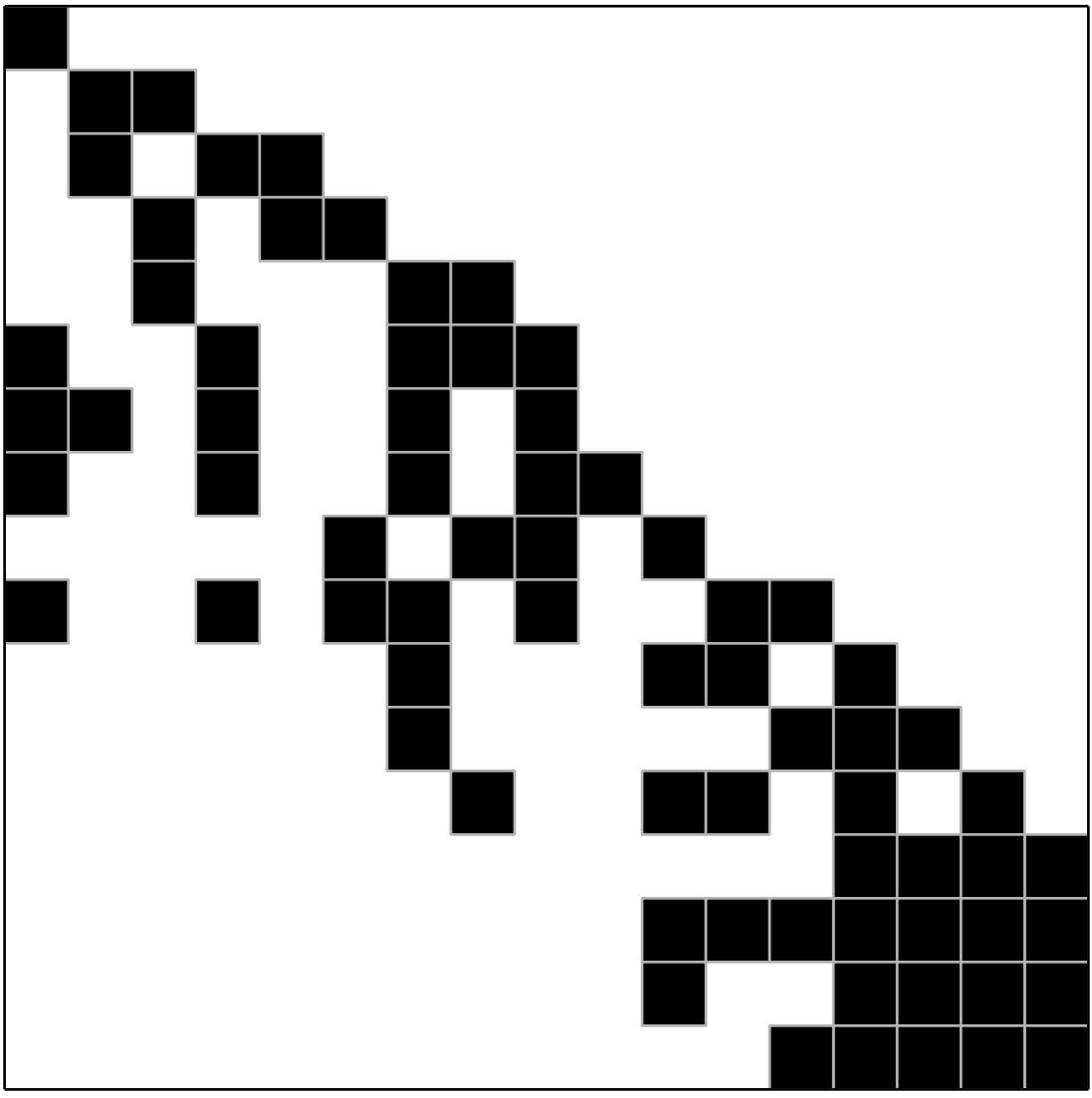
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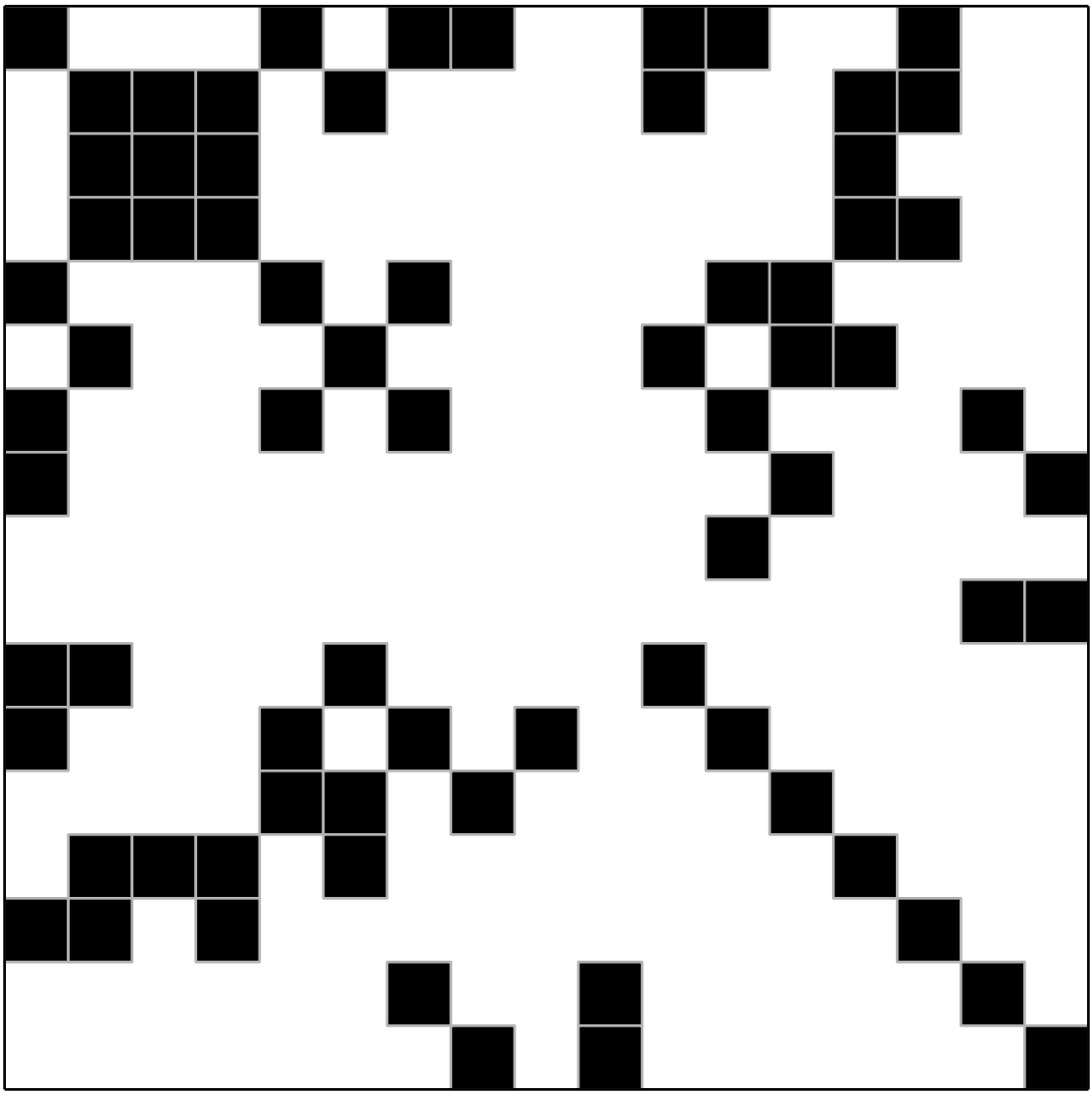
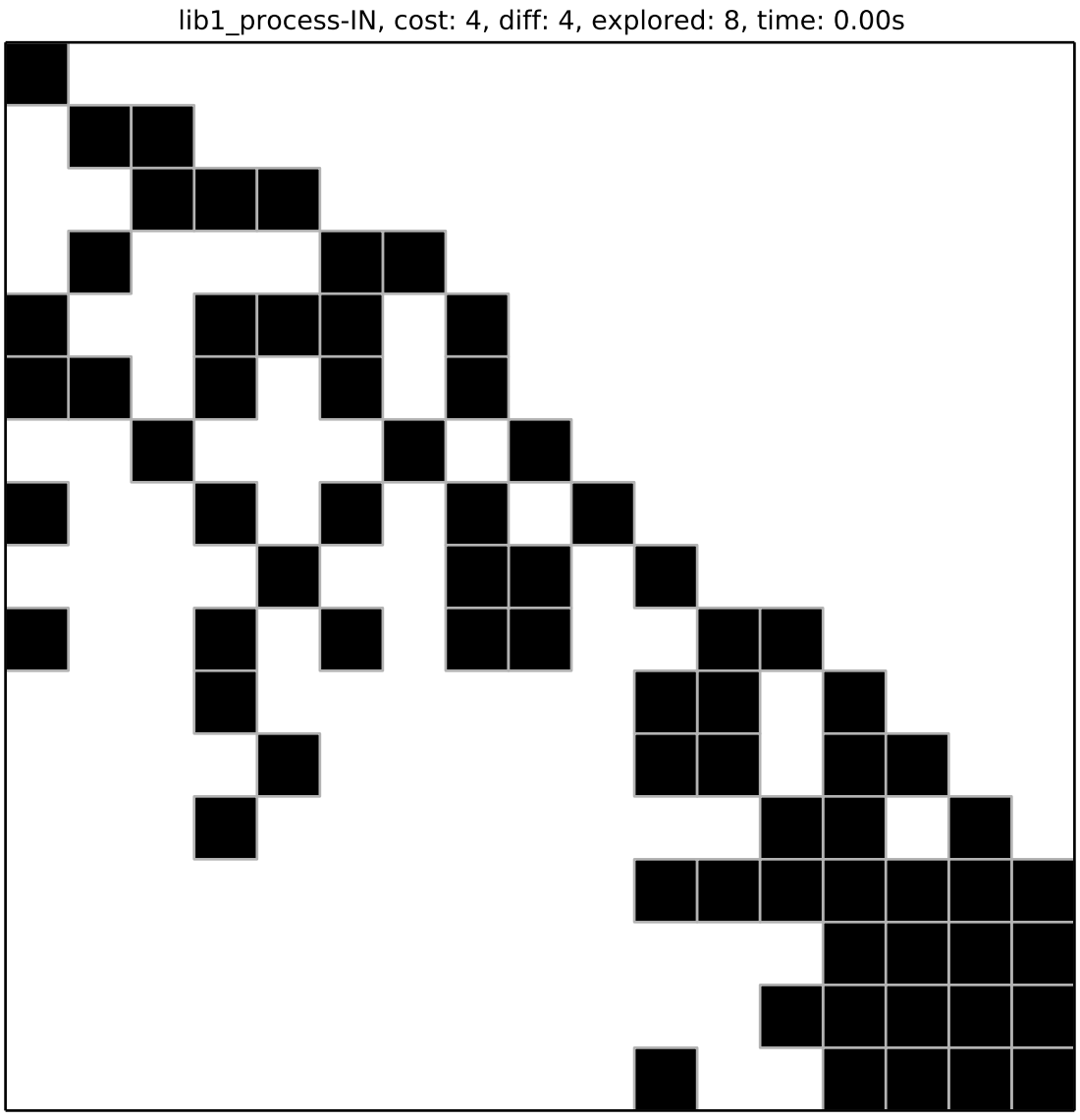

lib1_process-IN 17x17 (72) con: 7, var: 10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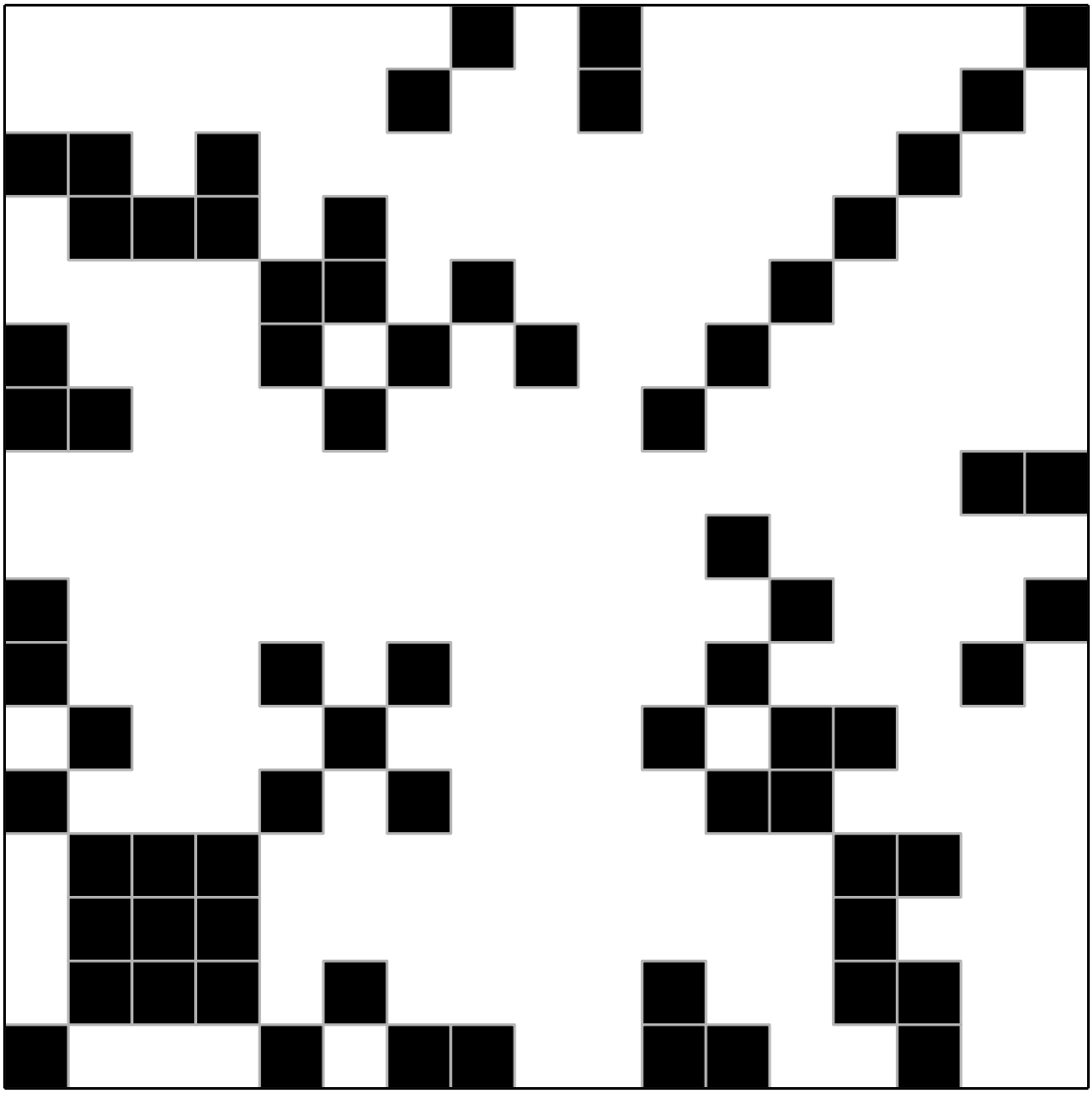
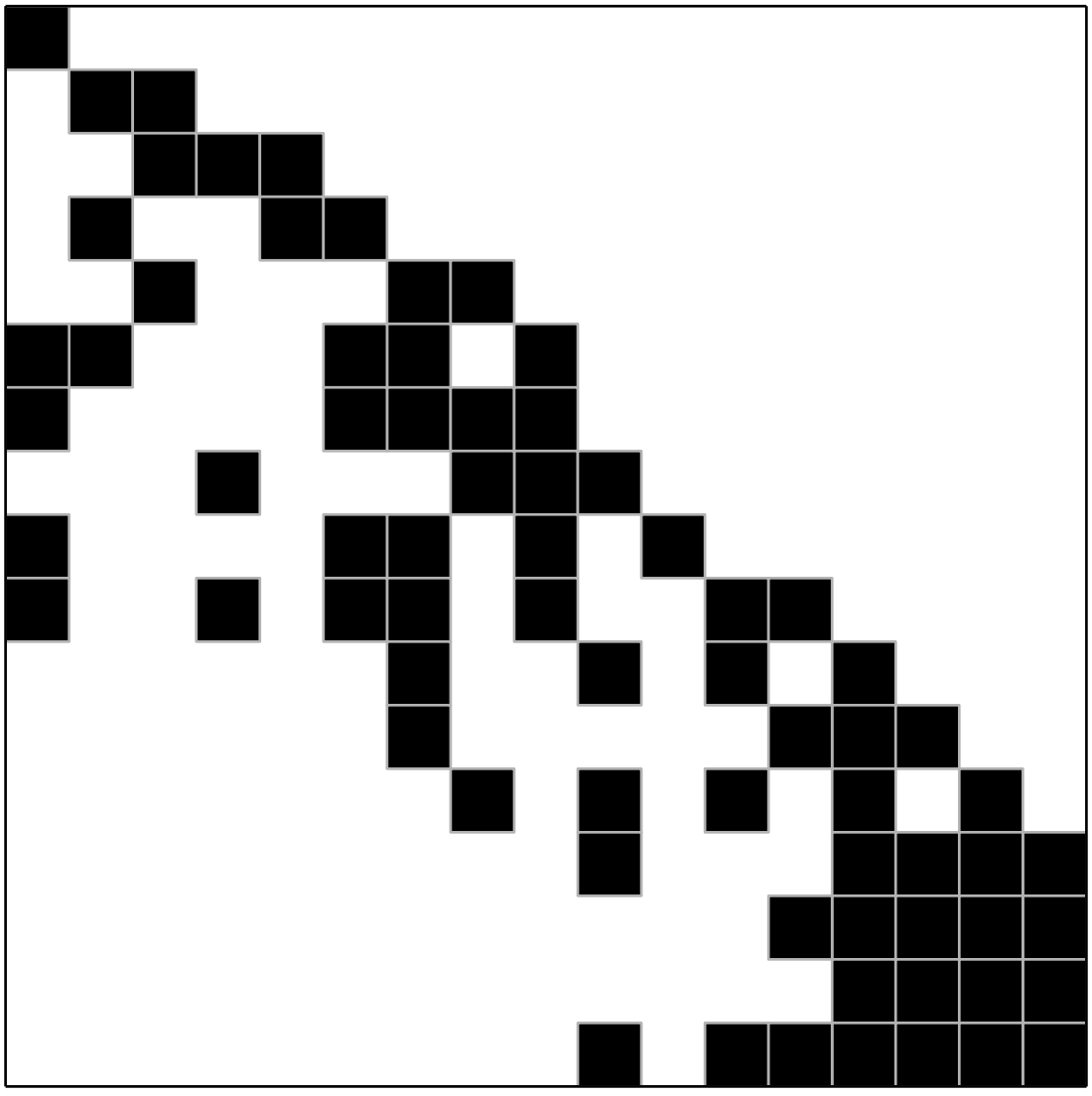
lib1_process-RE 17x17 (72) con: 7, var: 10

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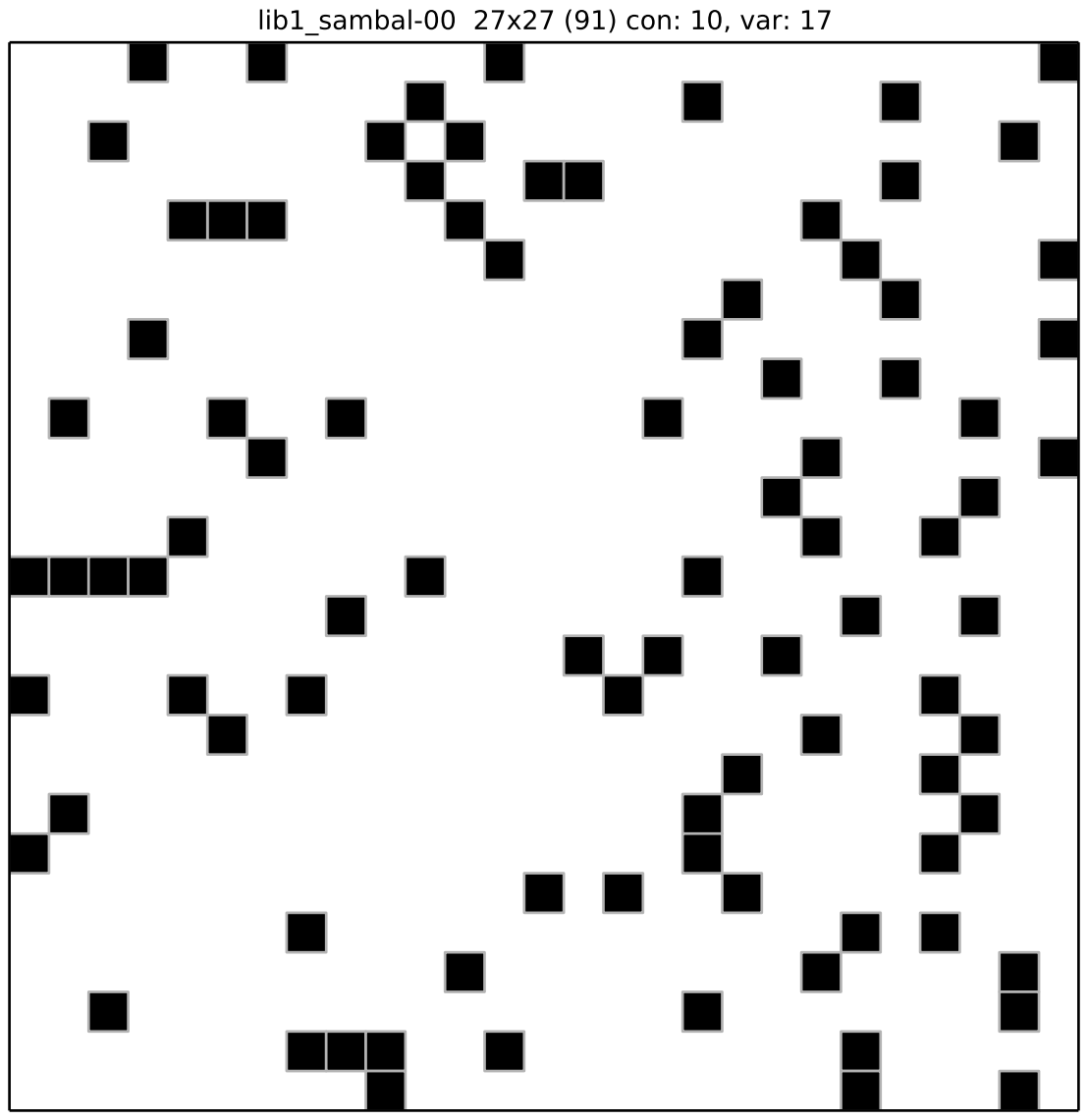
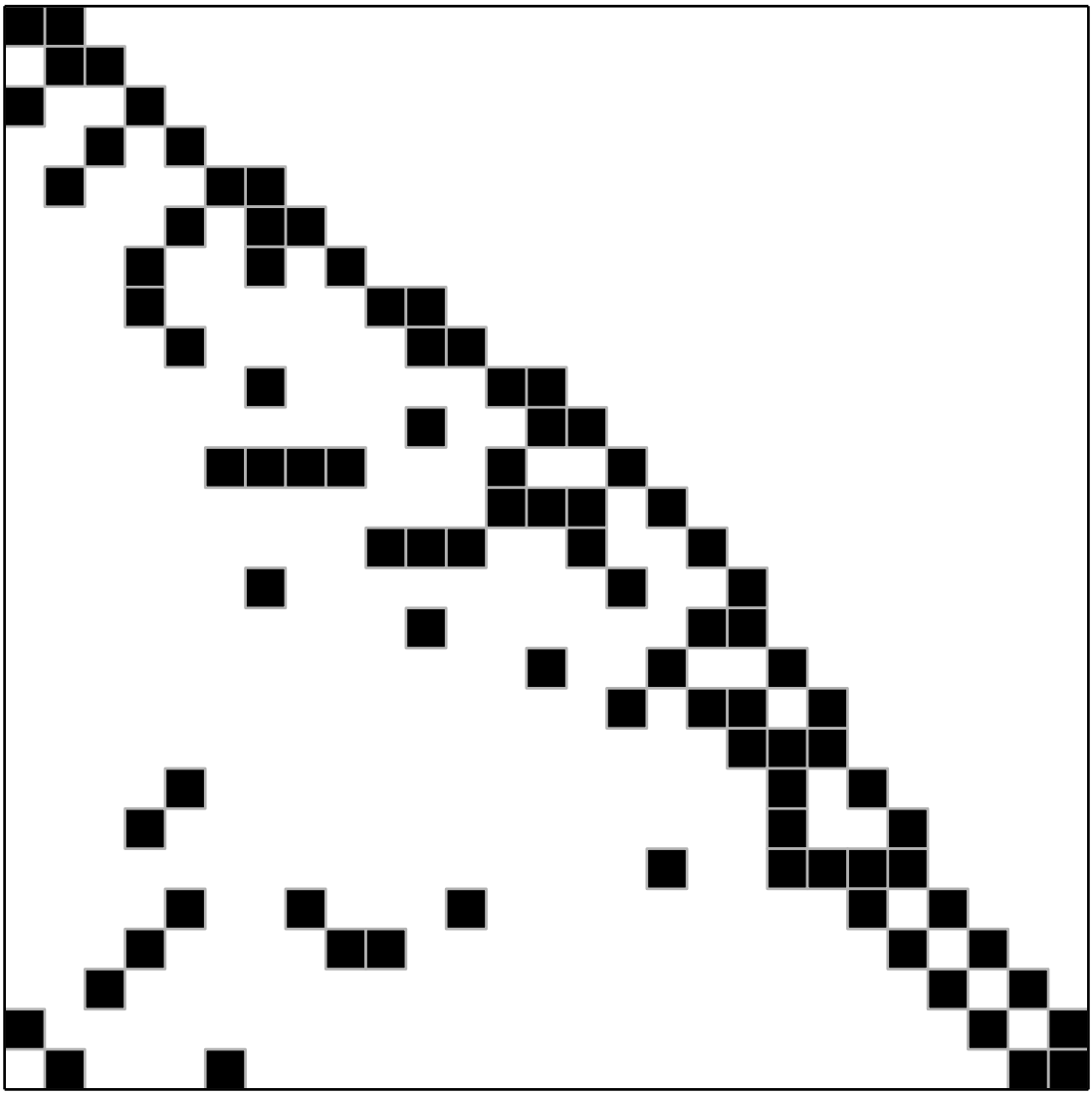
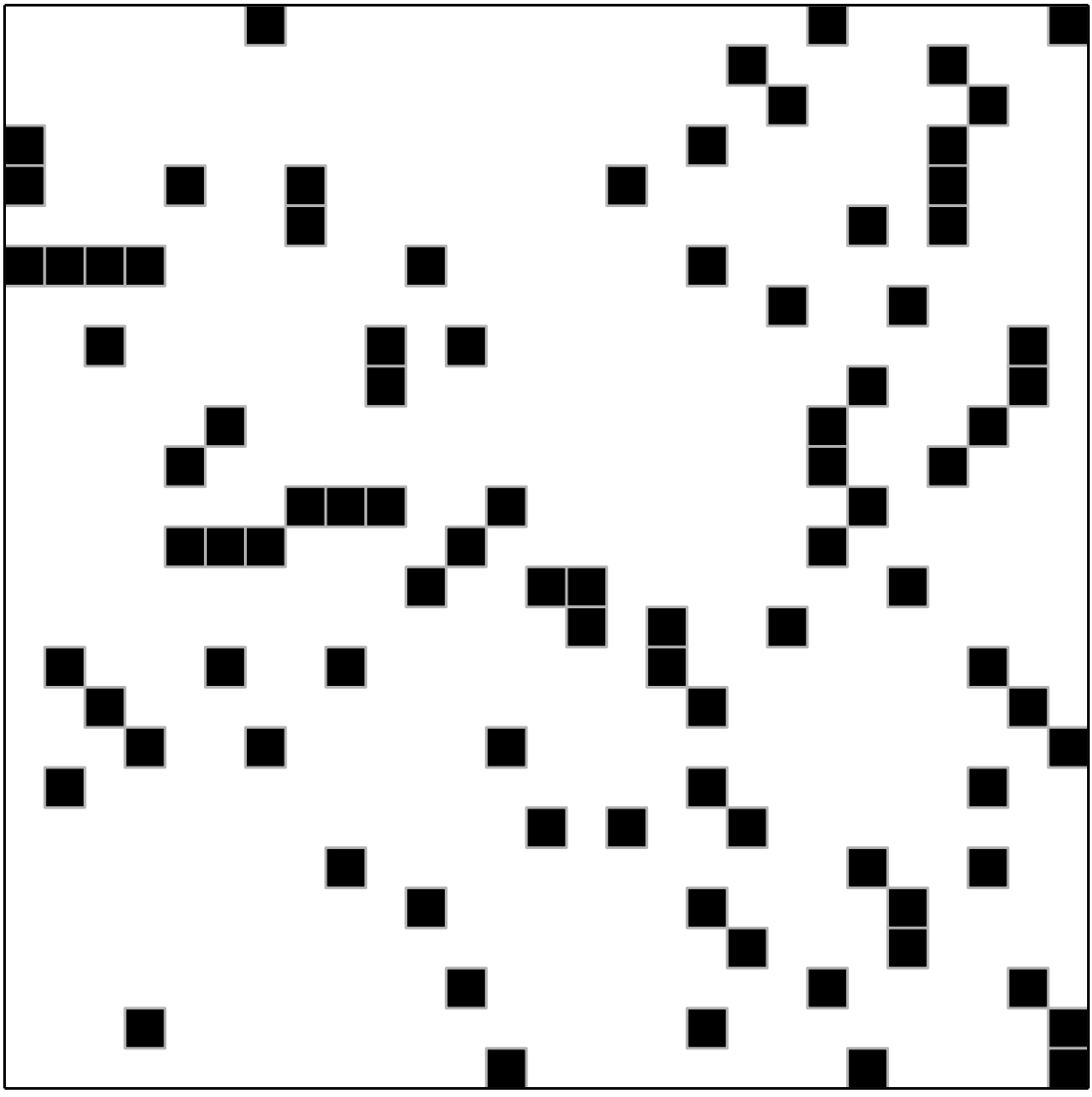
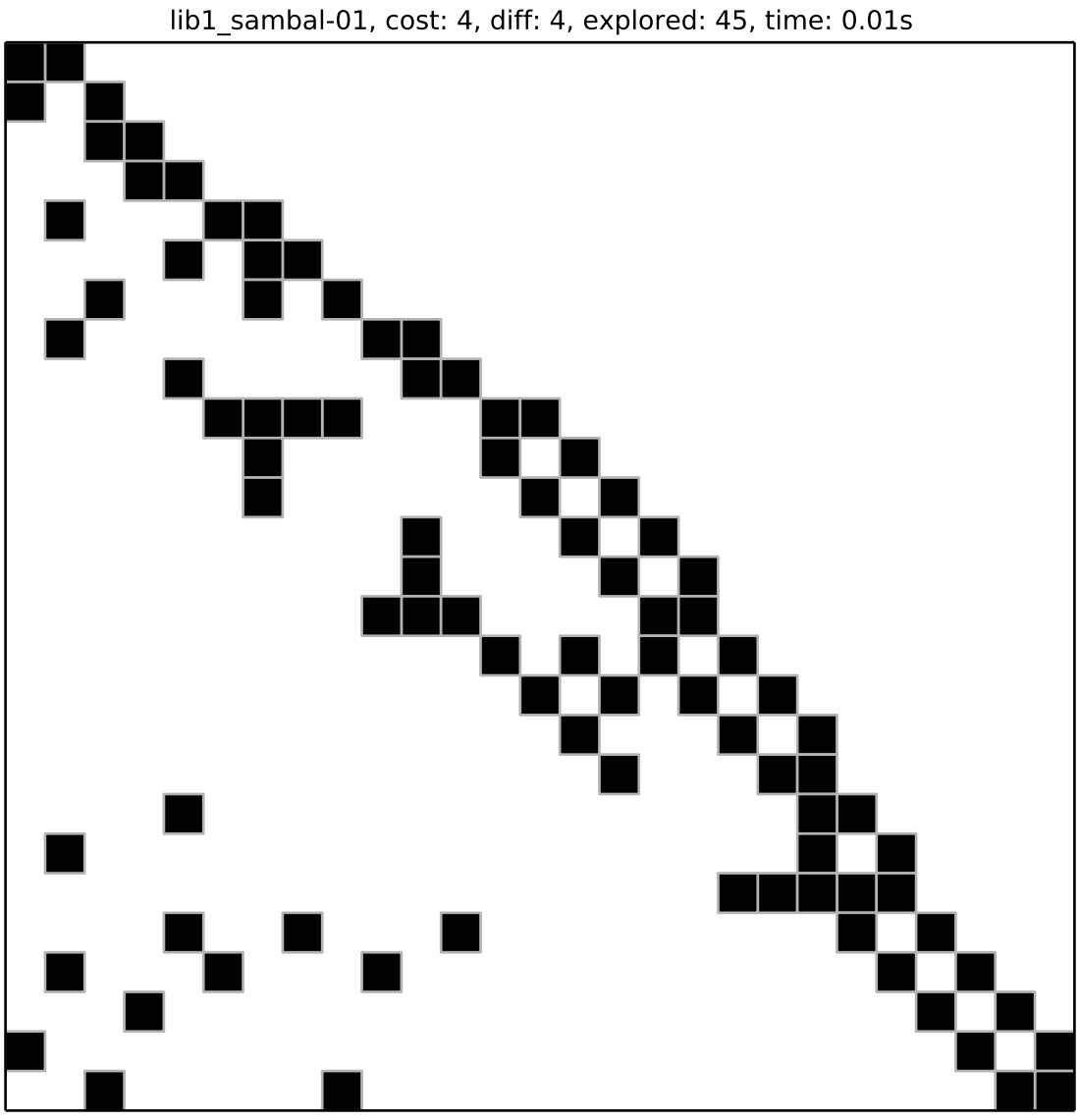

lib1_sambal-00 27x27 (91) con: 10, var: 17

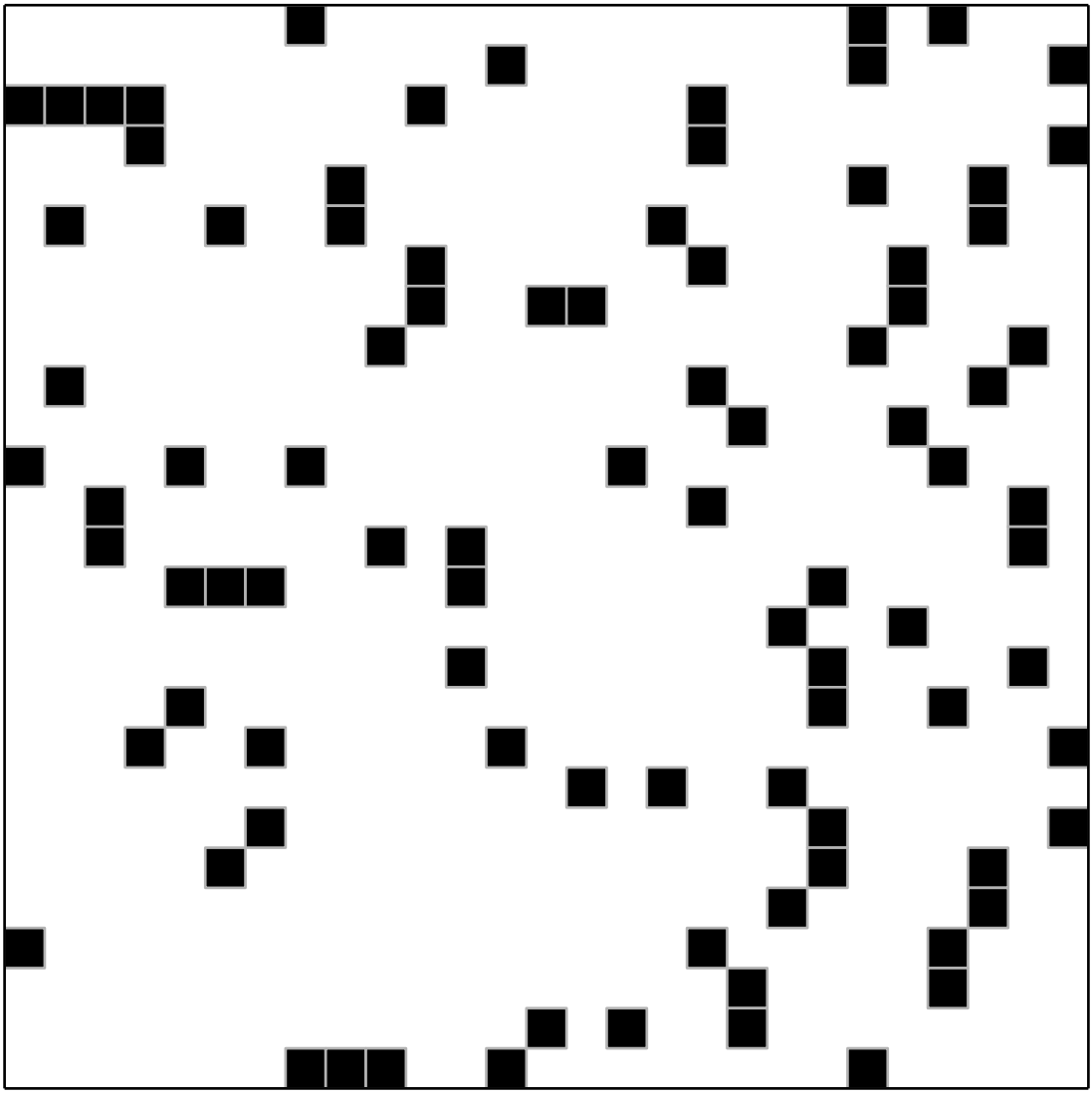

lib1_sambal-00, cost: 4, diff: 4, explored: 46, time: 0.01s

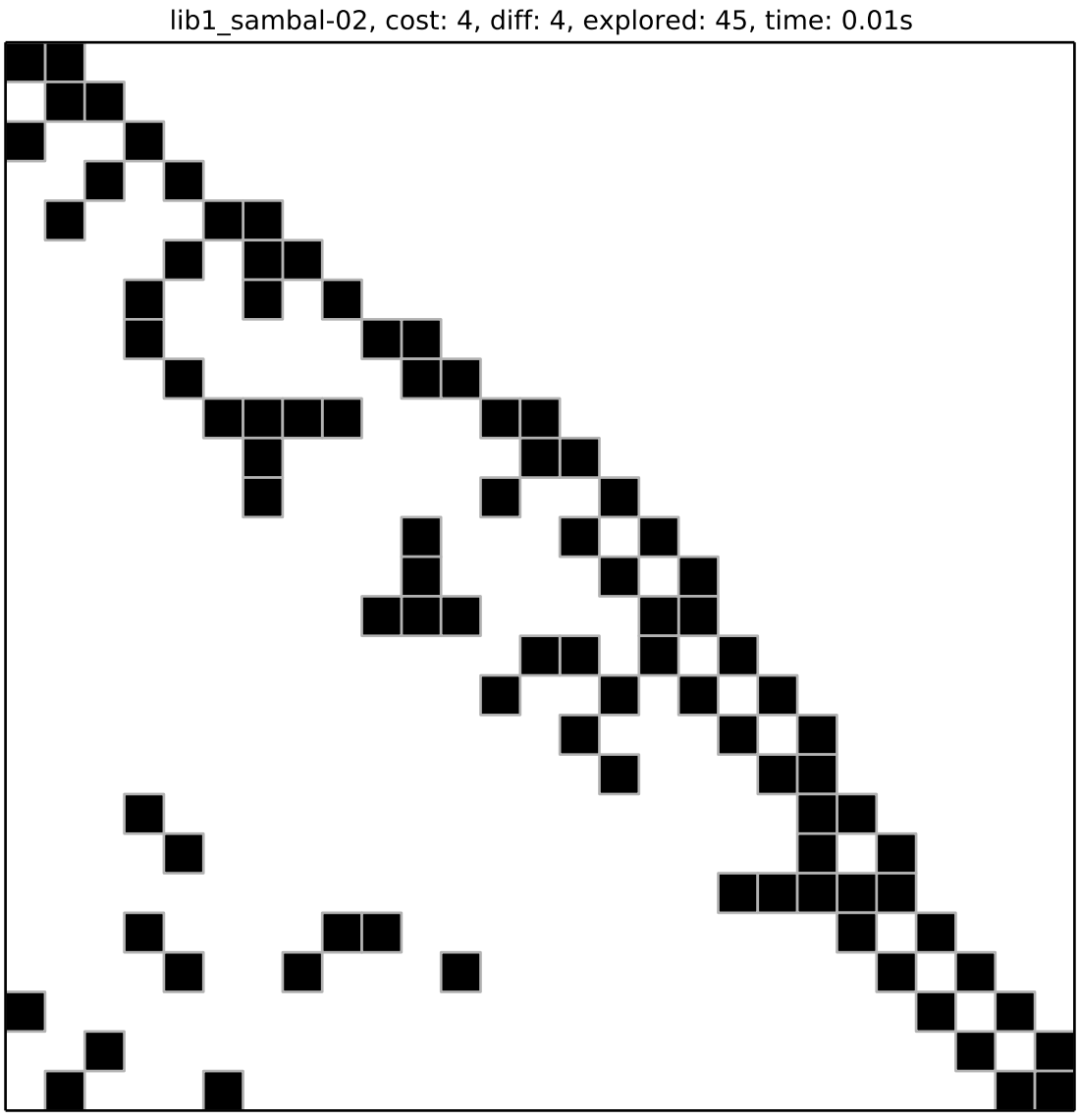
lib1_sambal-01 27x27 (91) con: 10, var: 17




lib1_sambal-01, cost: 4, diff: 4, explored: 45, time: 0.01s

lib1_sambal-02 27x27 (91) con: 10, var: 17

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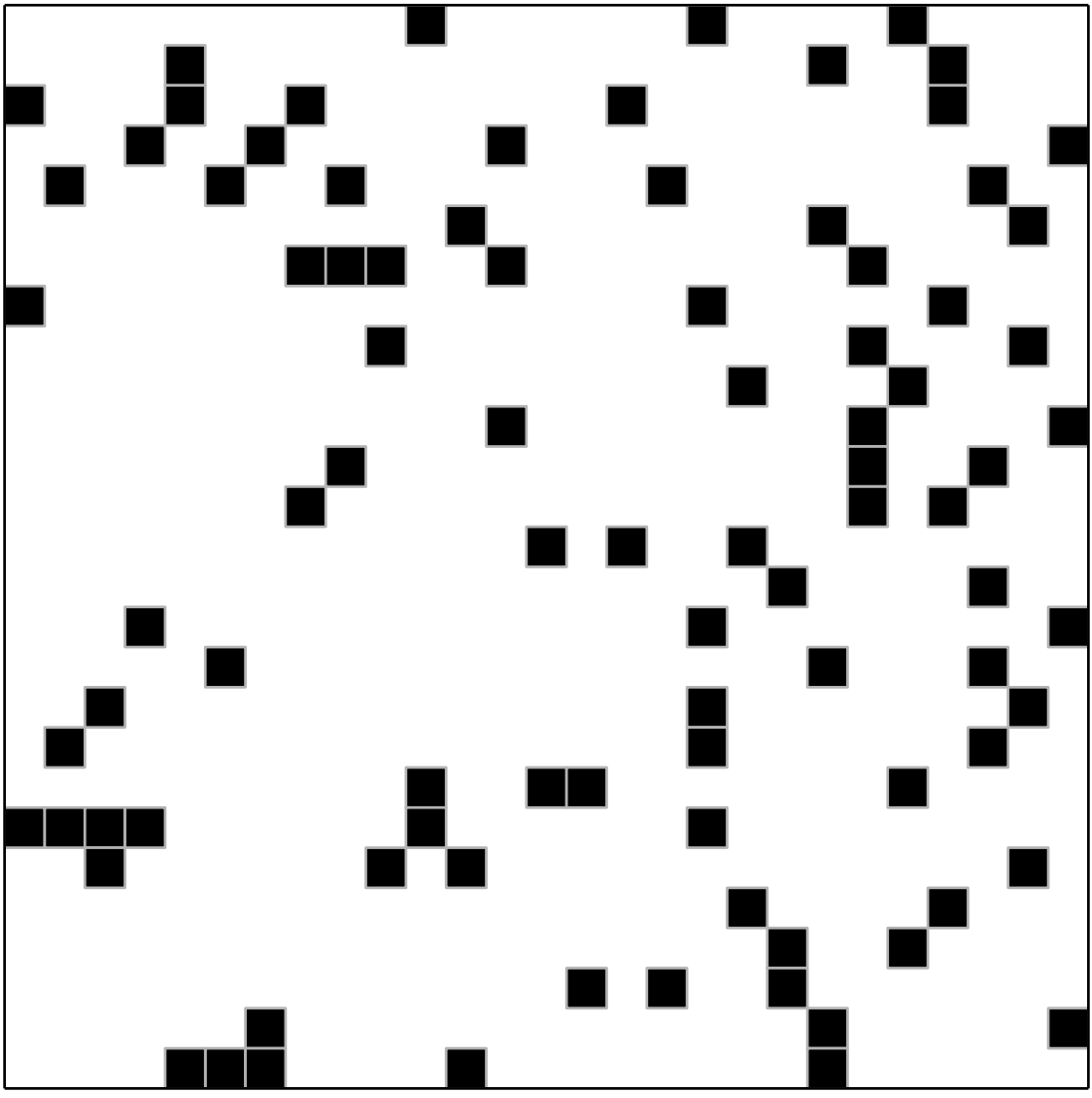
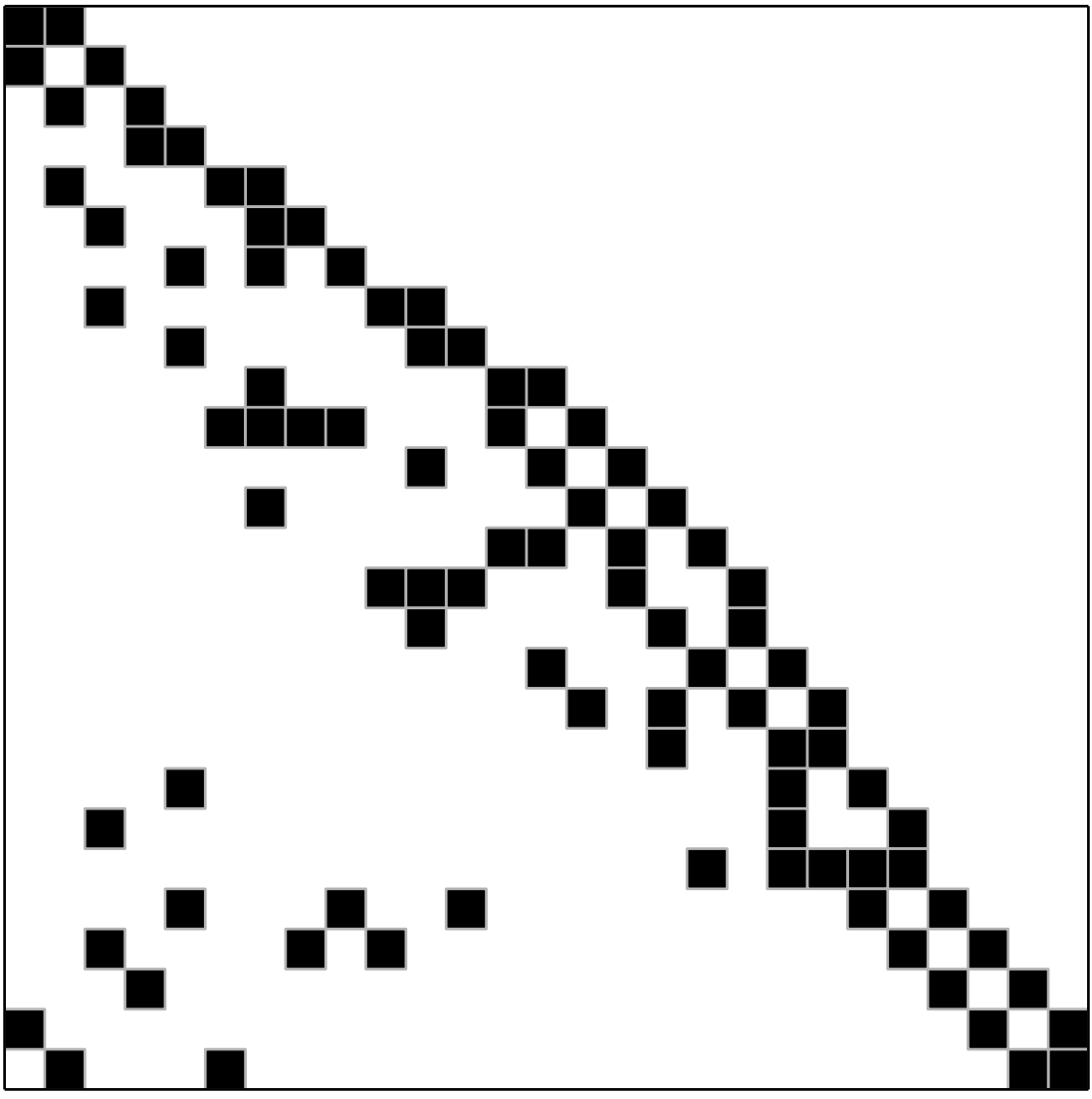
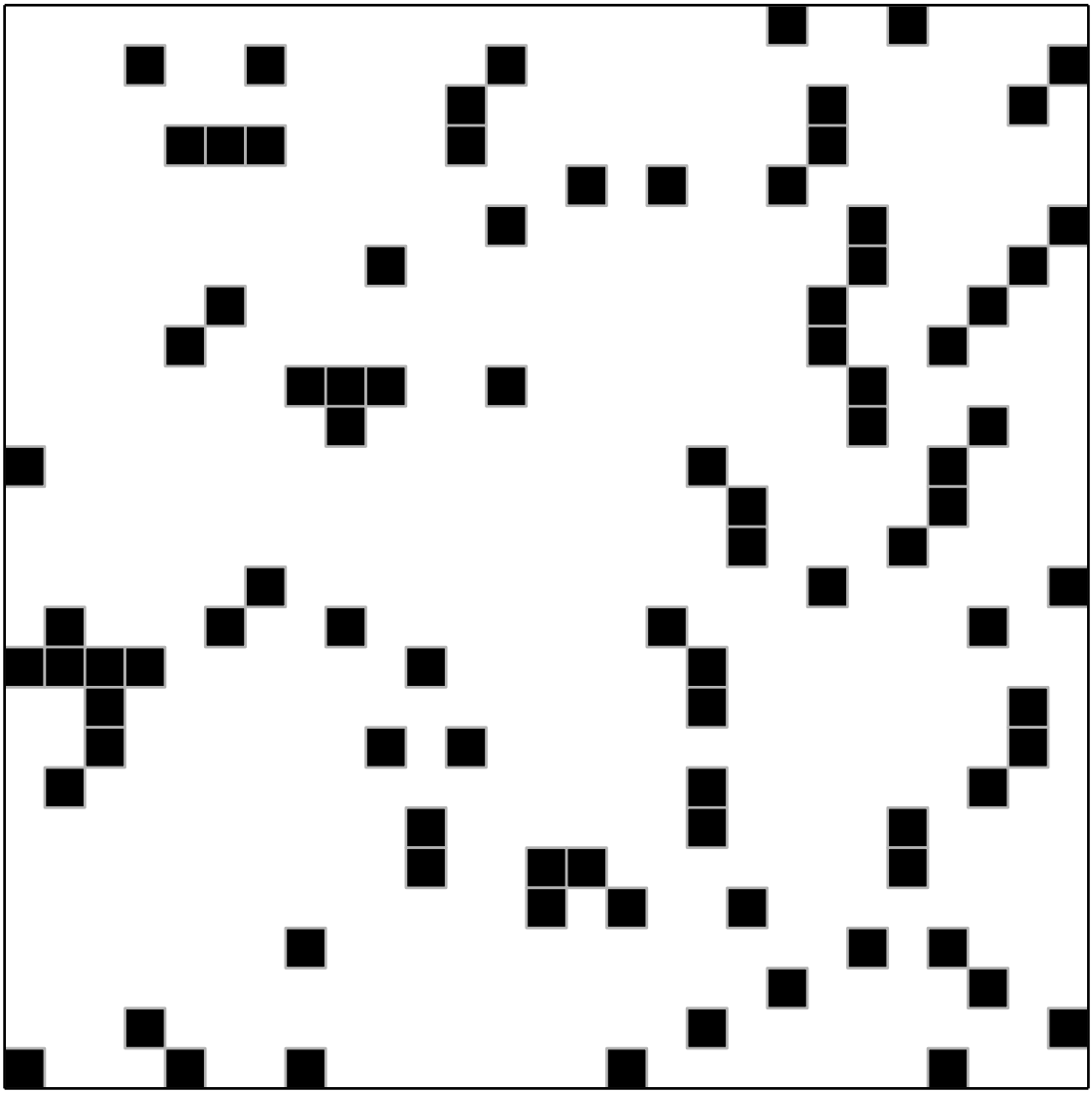
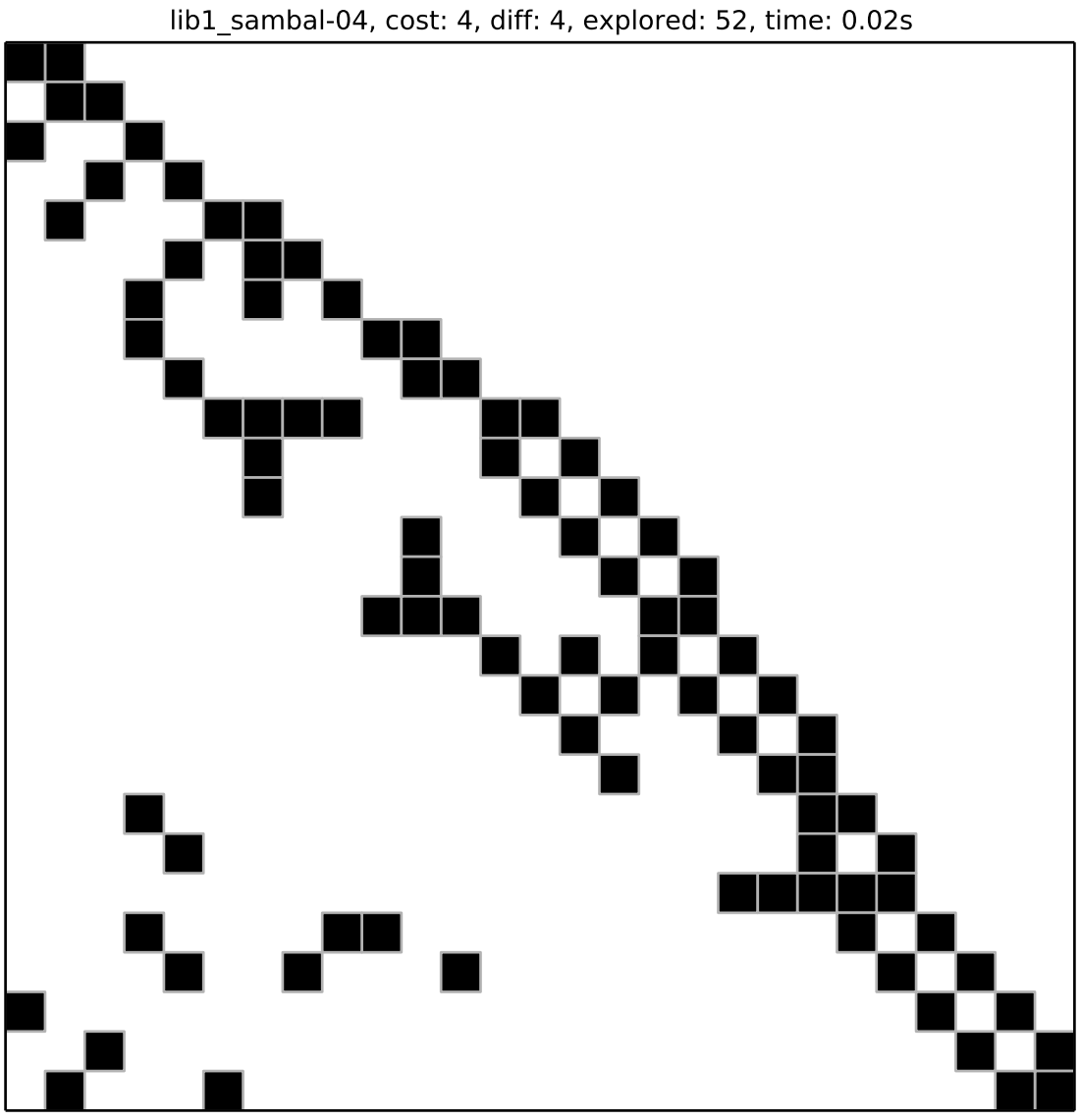
lib1_sambal-03 27x27 (91) con: 10, var: 17



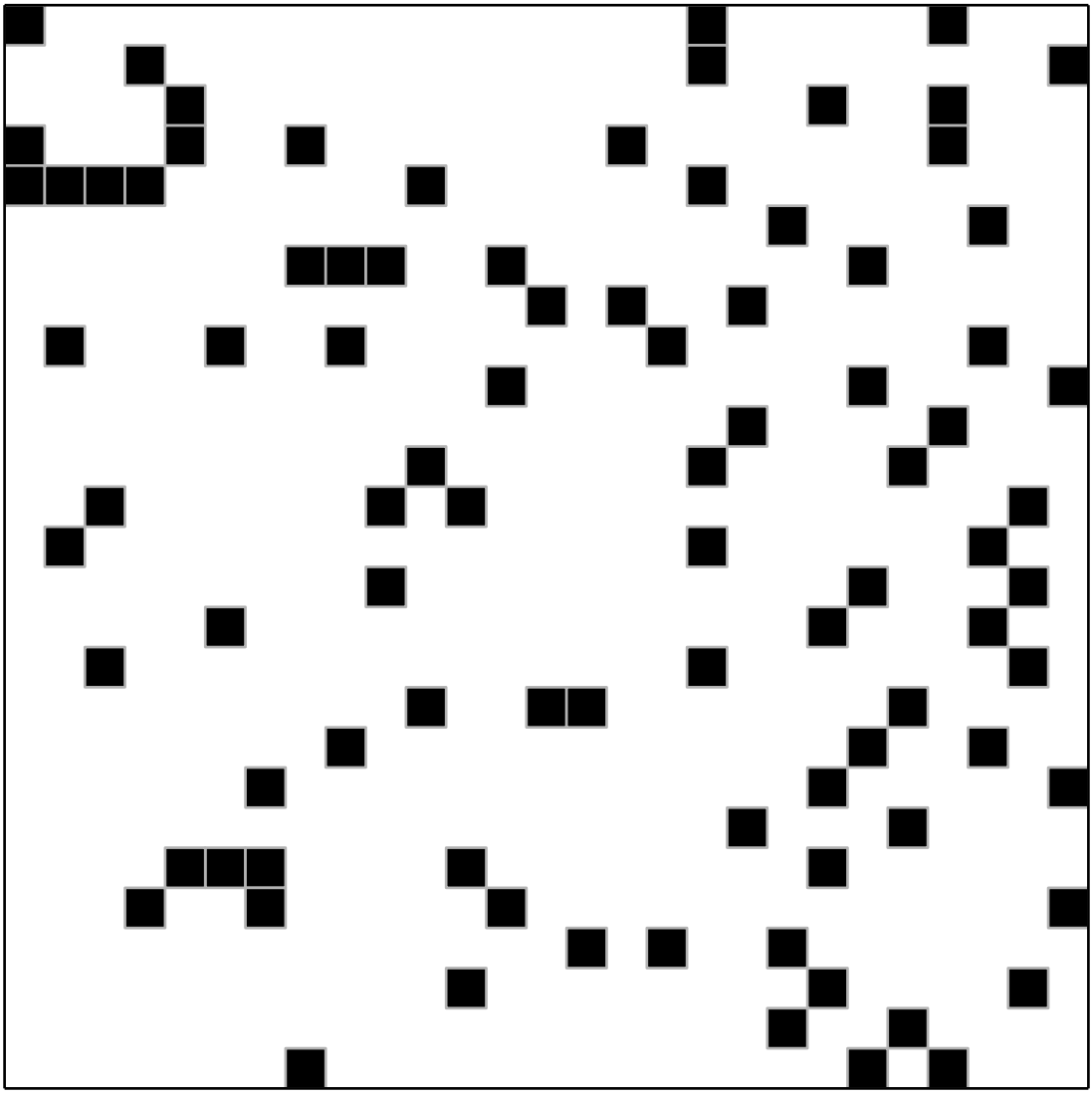

lib1_sambal-03, cost: 4, diff: 4, explored: 46, time: 0.01s

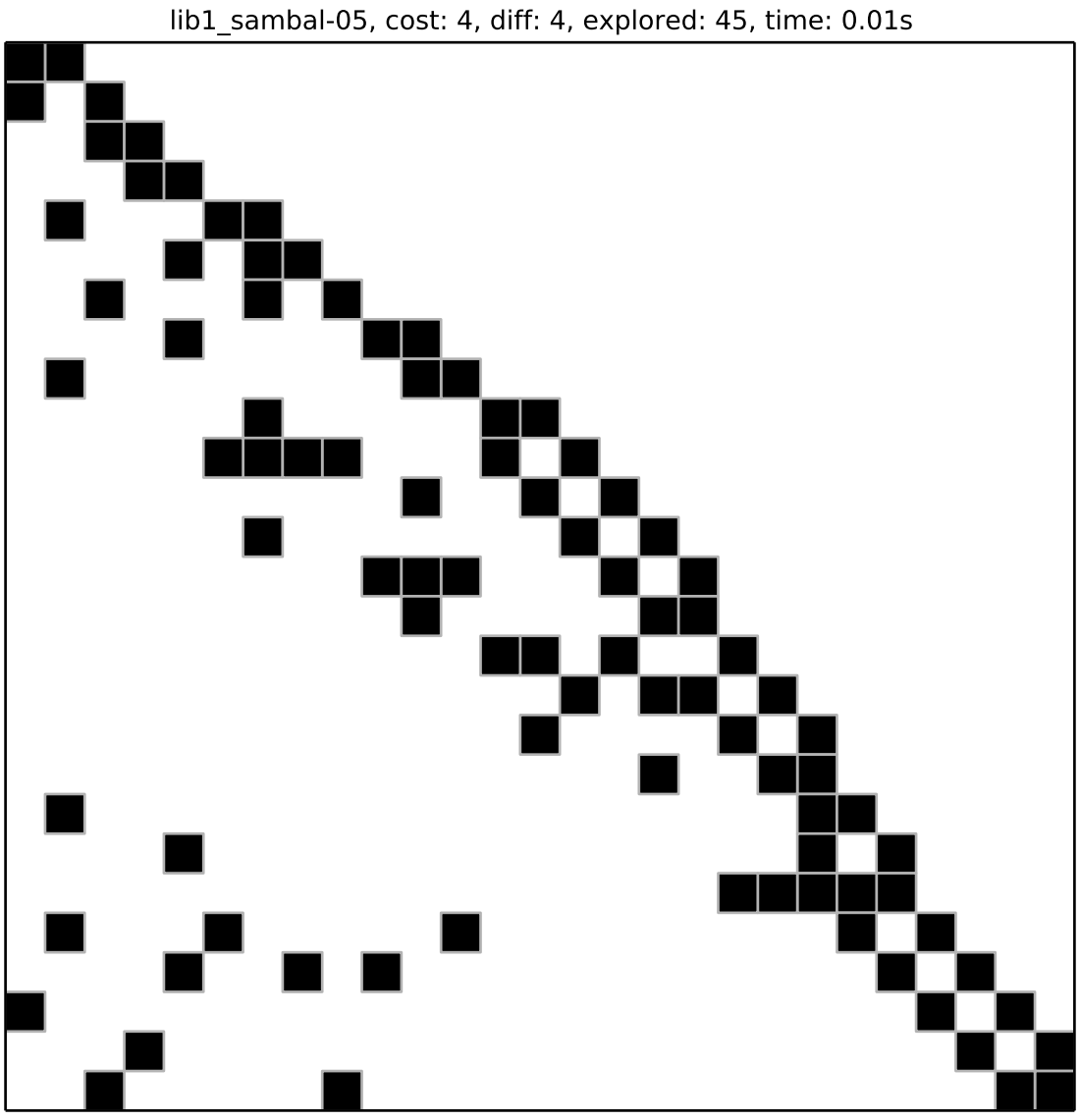
lib1_sambal-04 27x27 (91) con: 10, var: 17



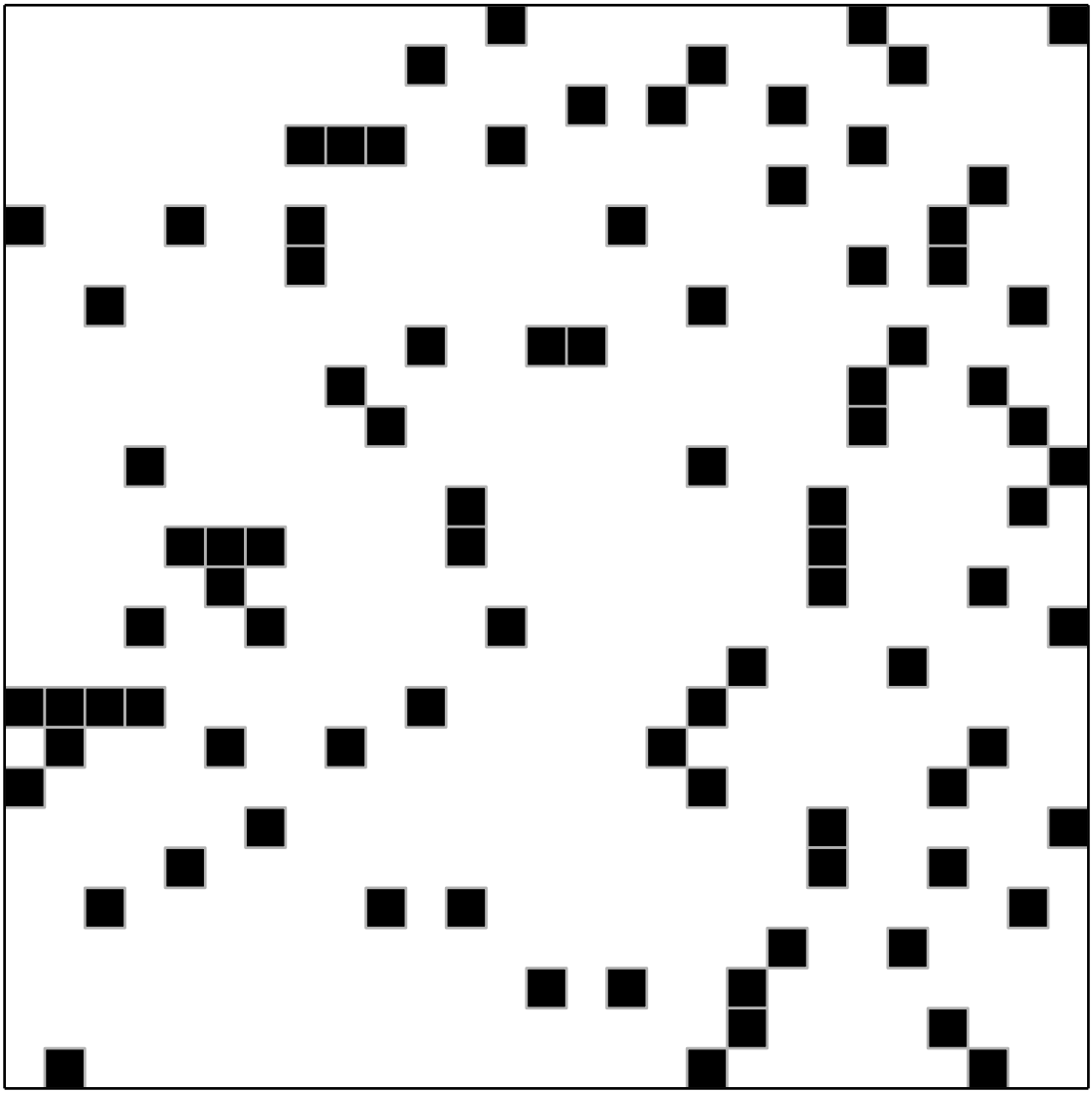

lib1_sambal-04, cost: 4, diff: 4, explored: 52, time: 0.02s

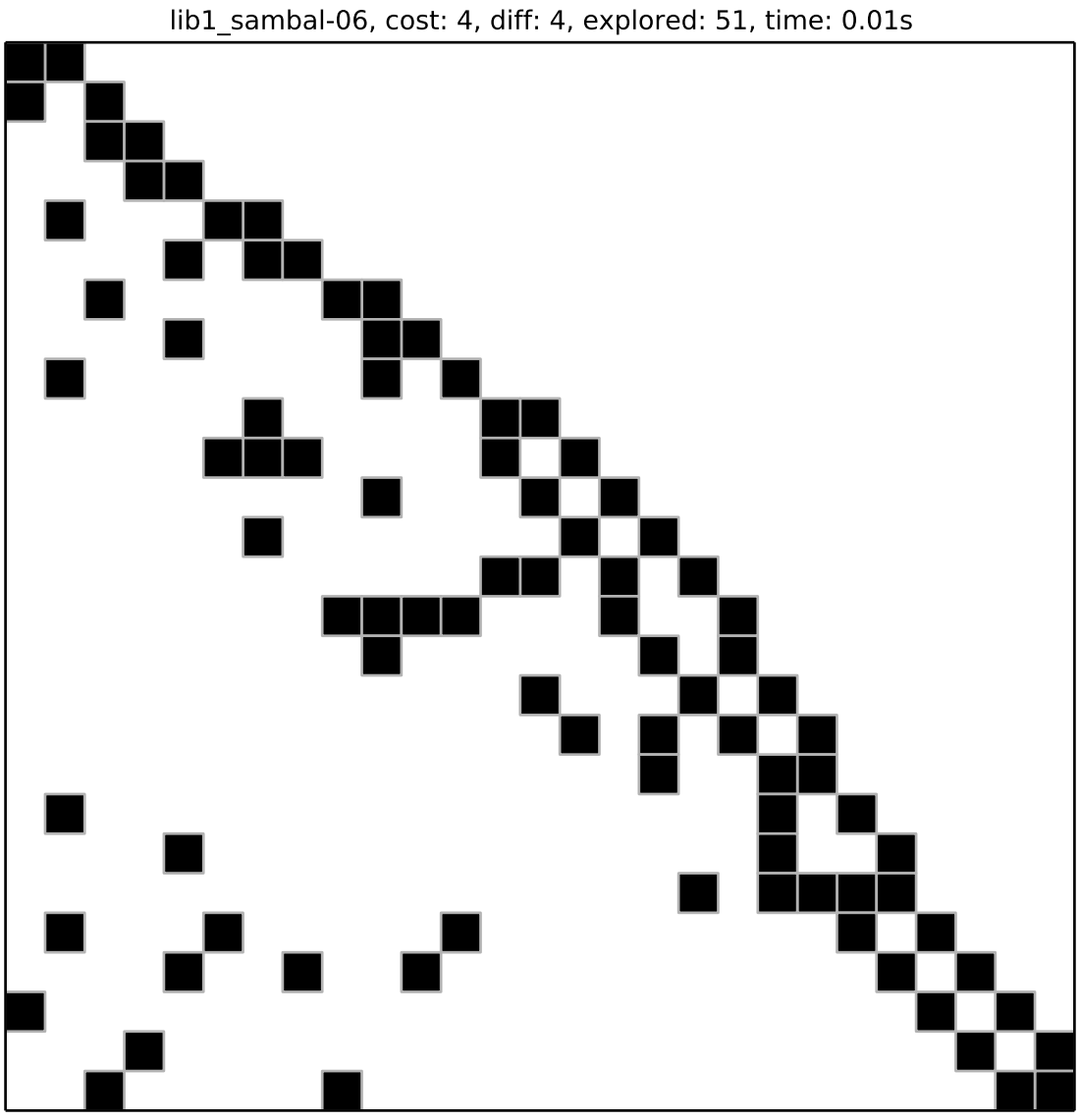
lib1_sambal-05 27x27 (91) con: 10, var: 17



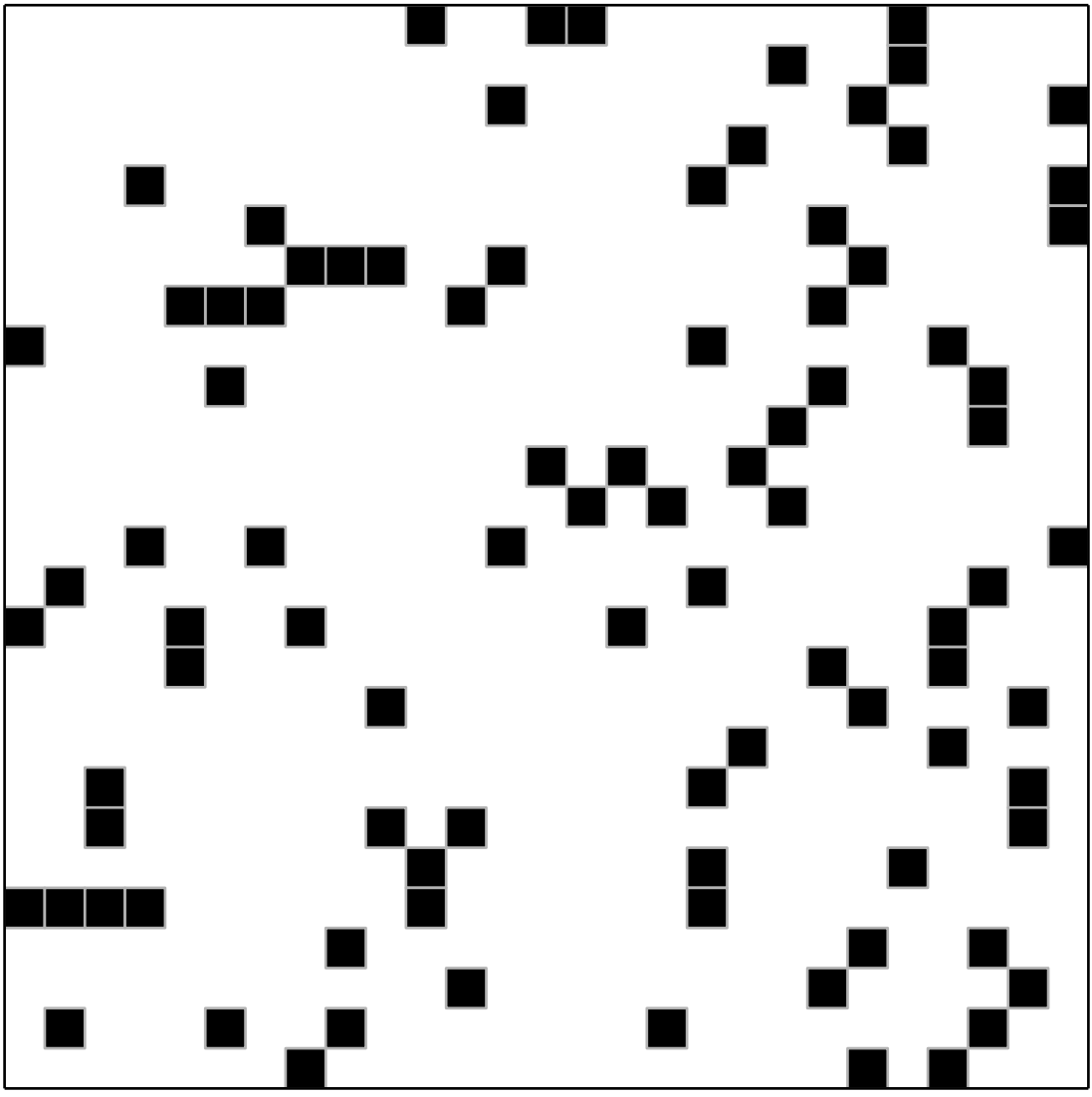

lib1_sambal-05, cost: 4, diff: 4, explored: 45, time: 0.01s

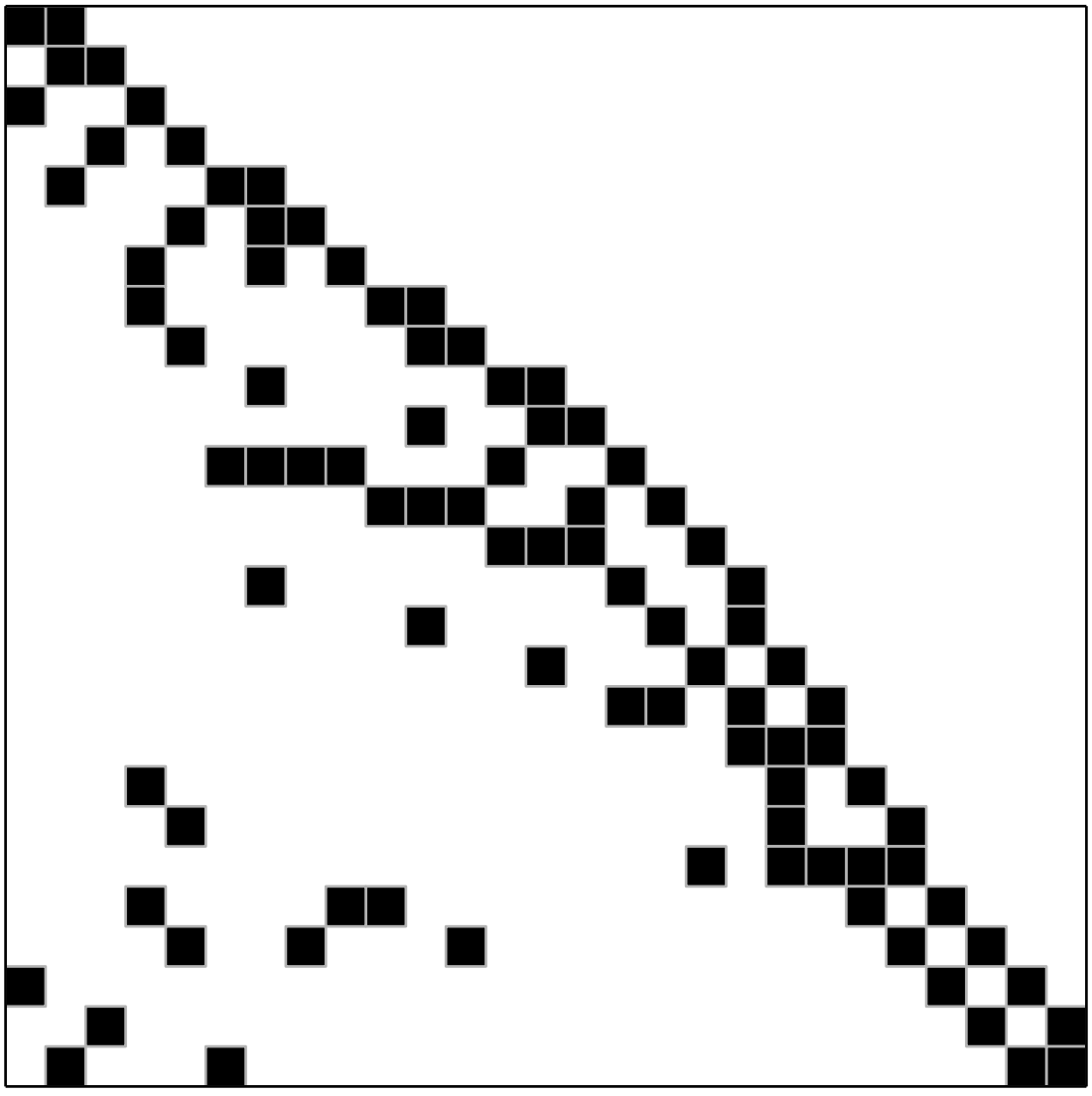
lib1_sambal-06 27x27 (91) con: 10, var: 17



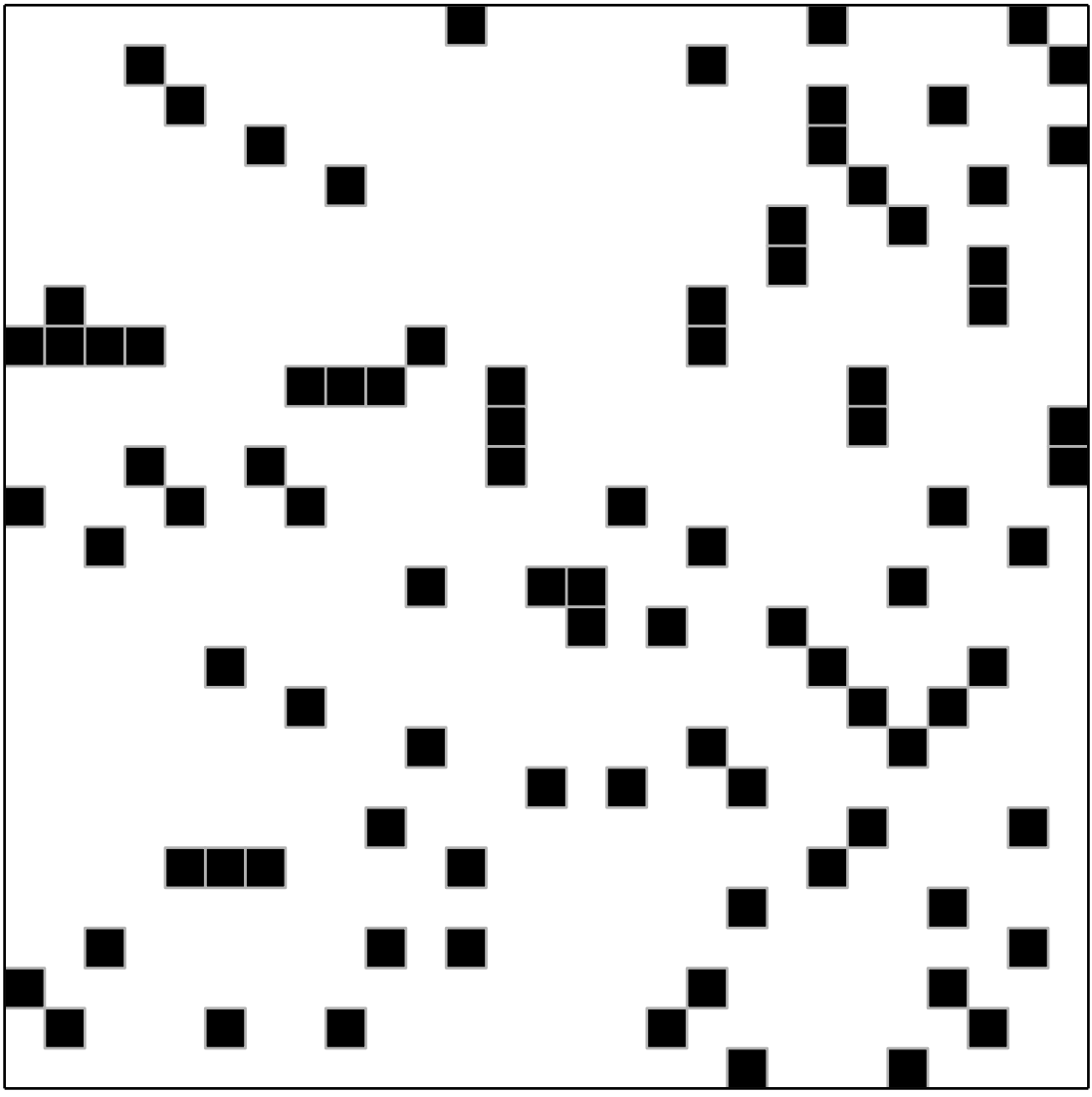

lib1_sambal-06, cost: 4, diff: 4, explored: 51, time: 0.01s

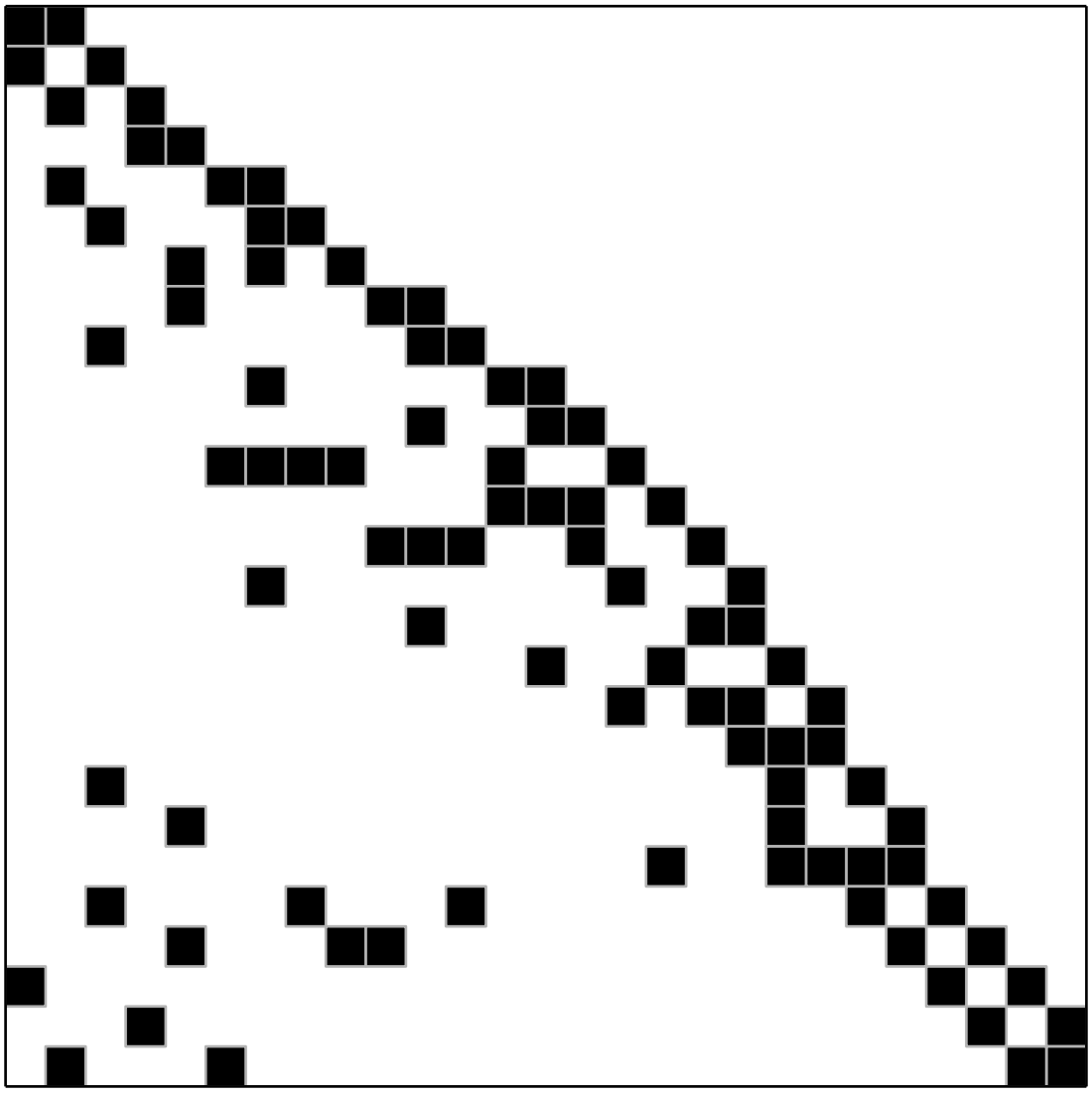
lib1_sambal-07 27x27 (91) con: 10, var: 17



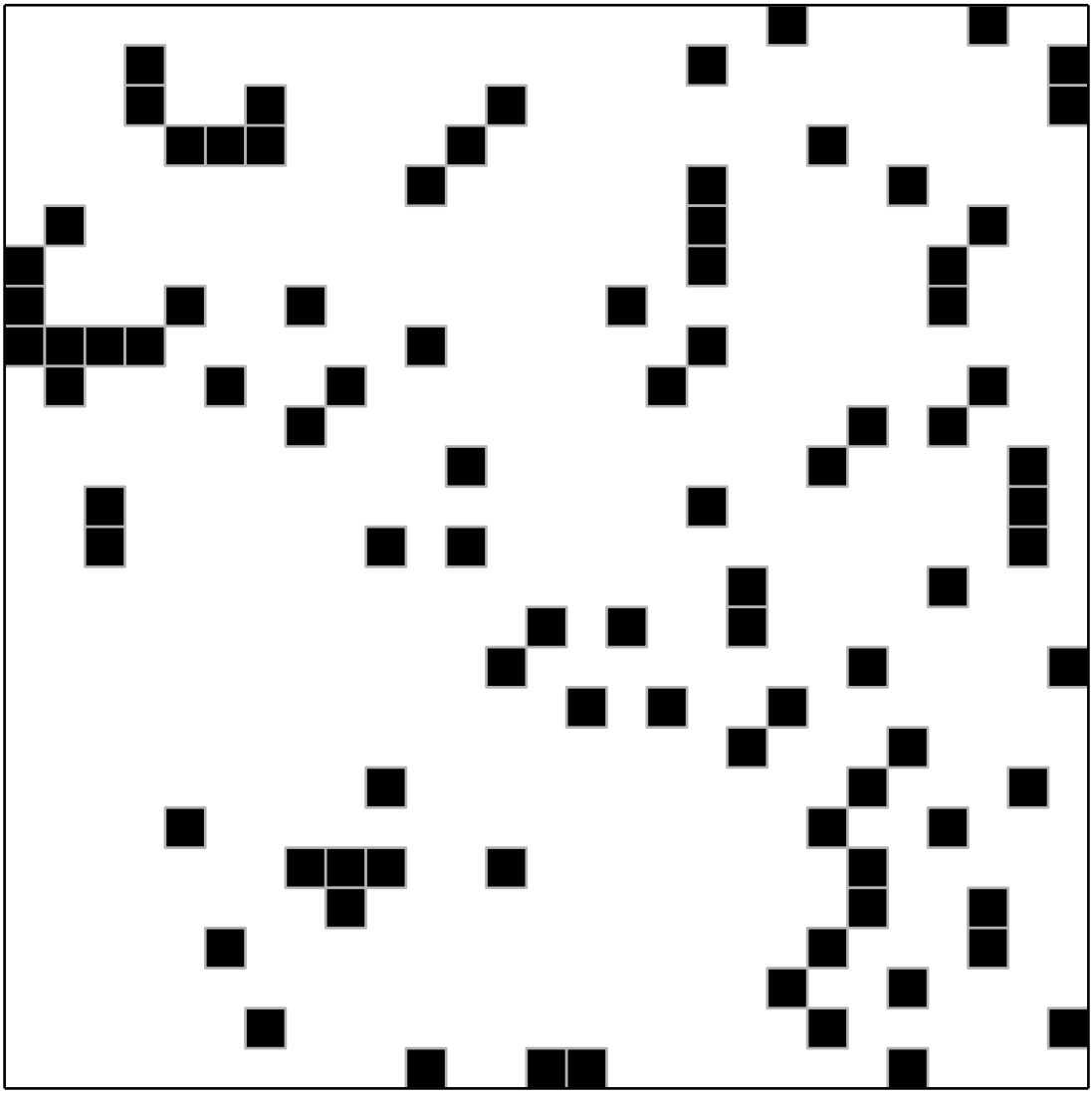

lib1_sambal-07, cost: 4, diff: 4, explored: 52, time: 0.02s

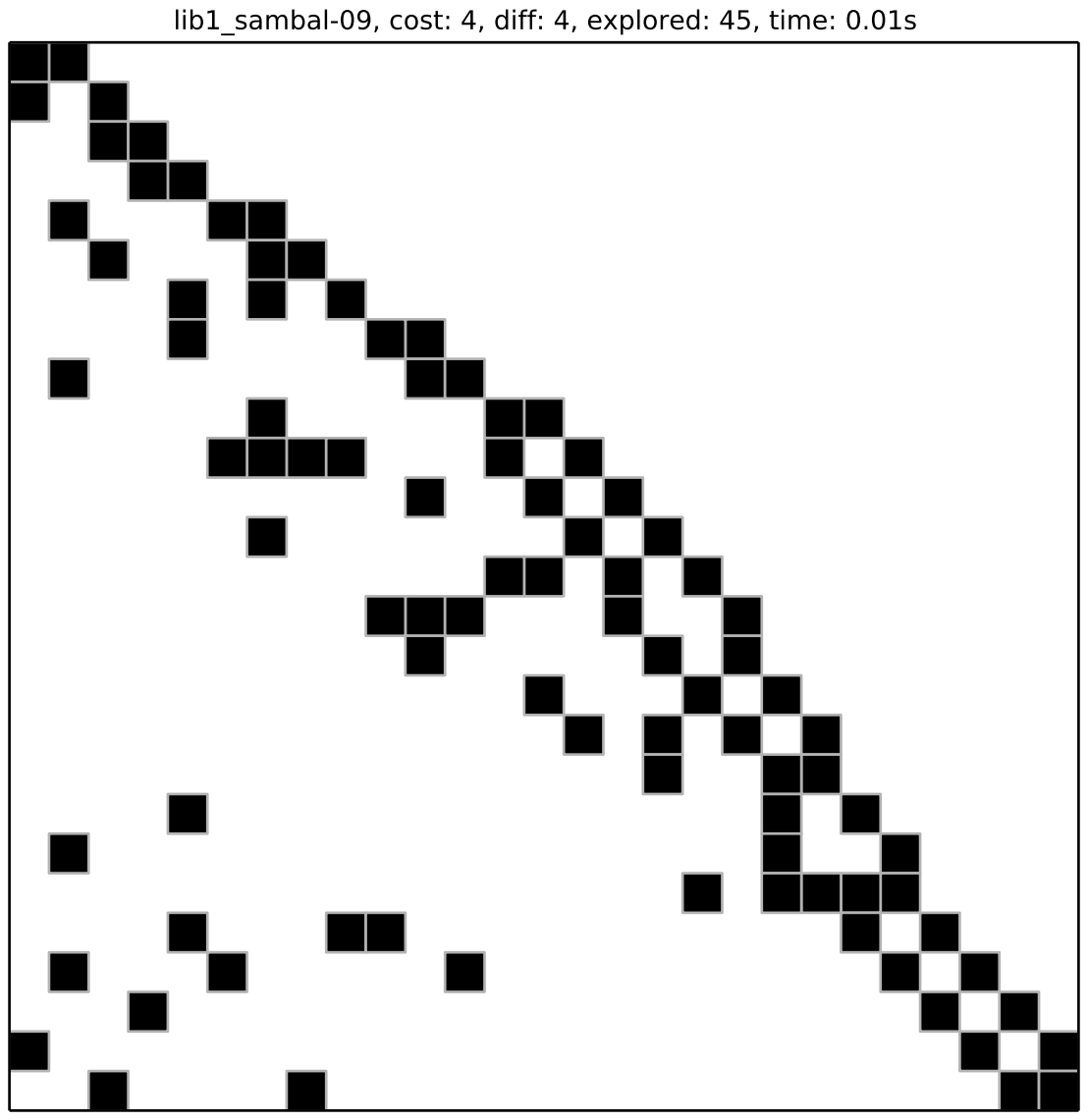
lib1_sambal-08 27x27 (91) con: 10, var: 17

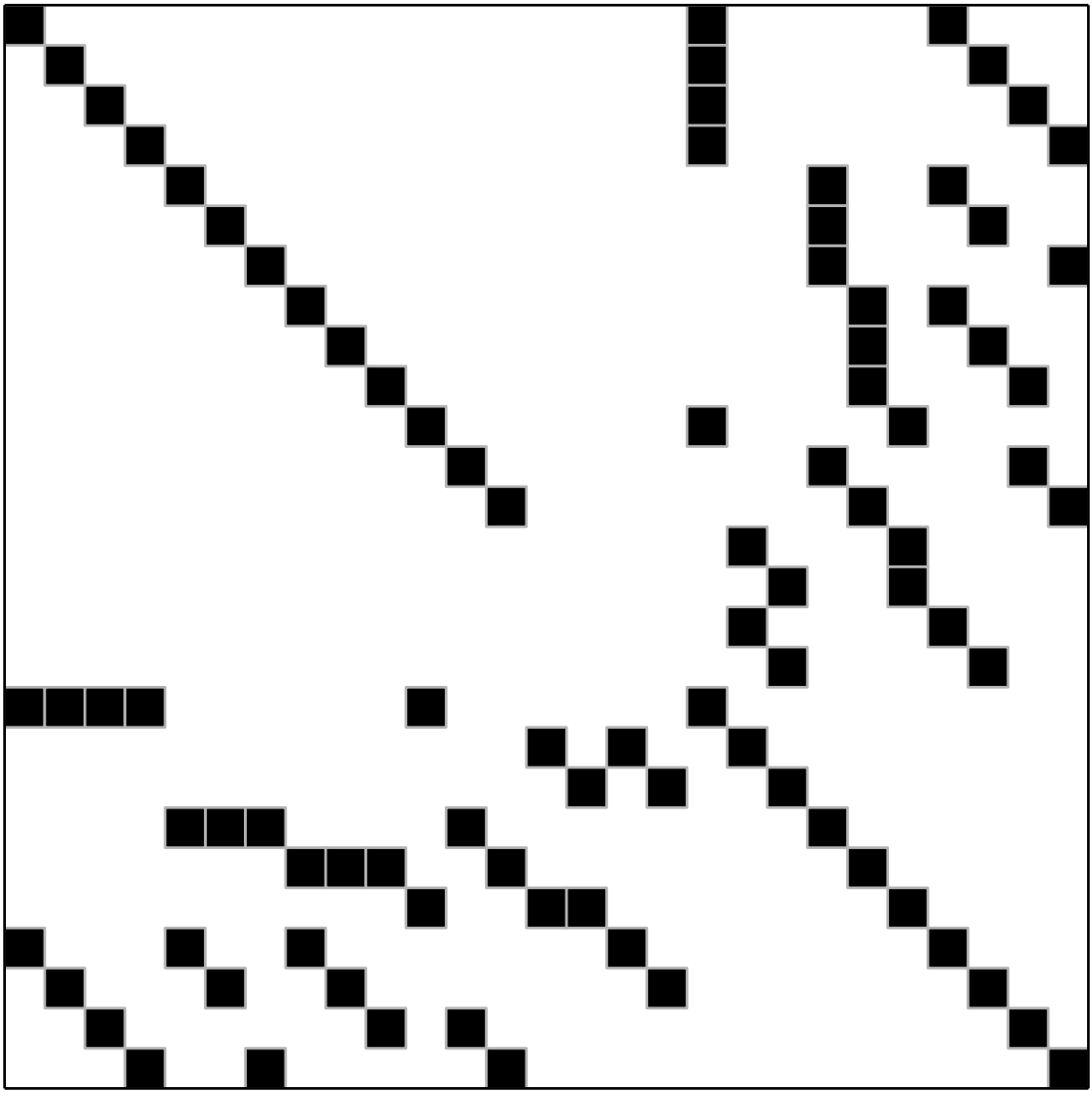


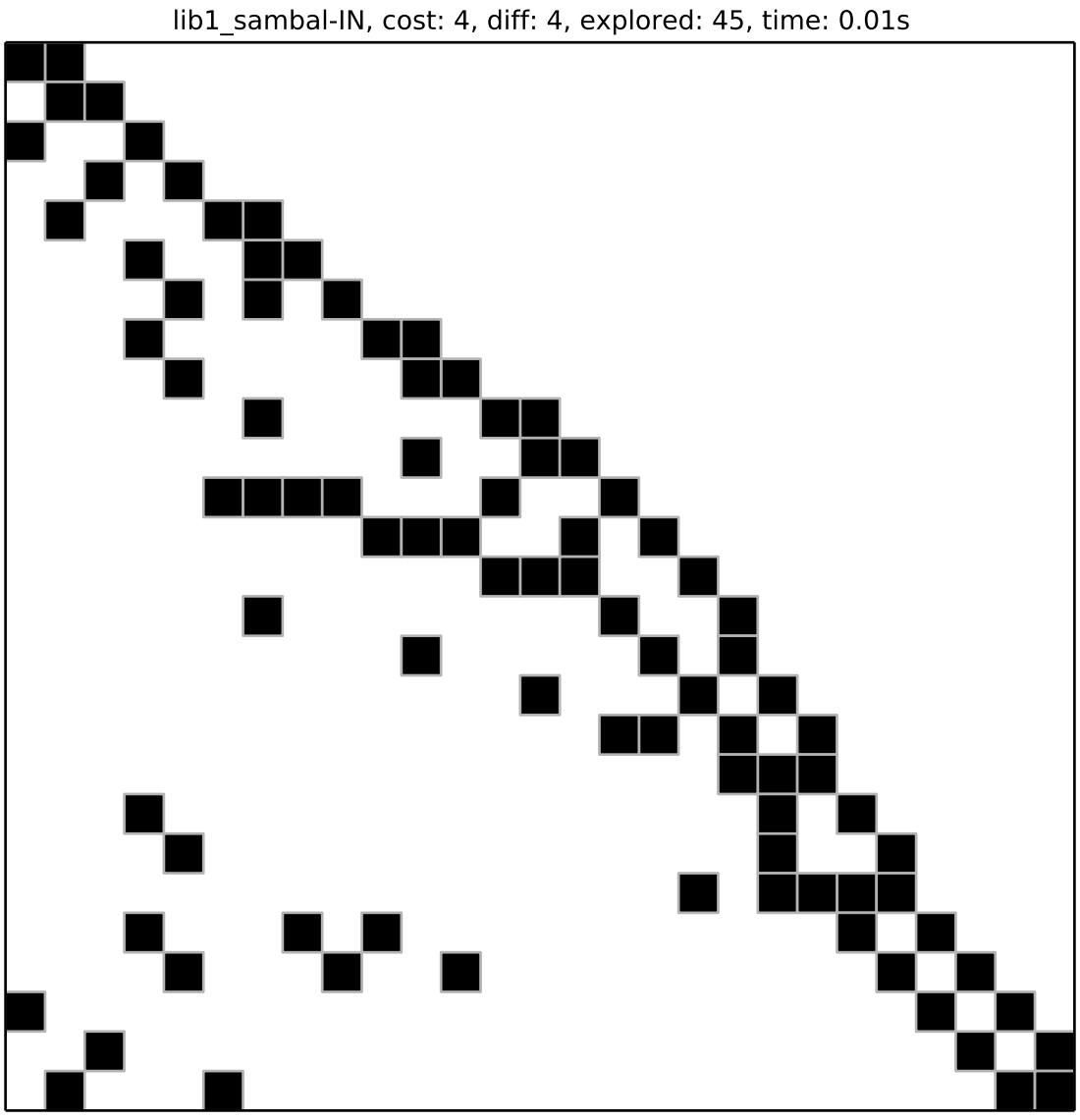

lib1_sambal-08, cost: 4, diff: 4, explored: 51, time: 0.01s

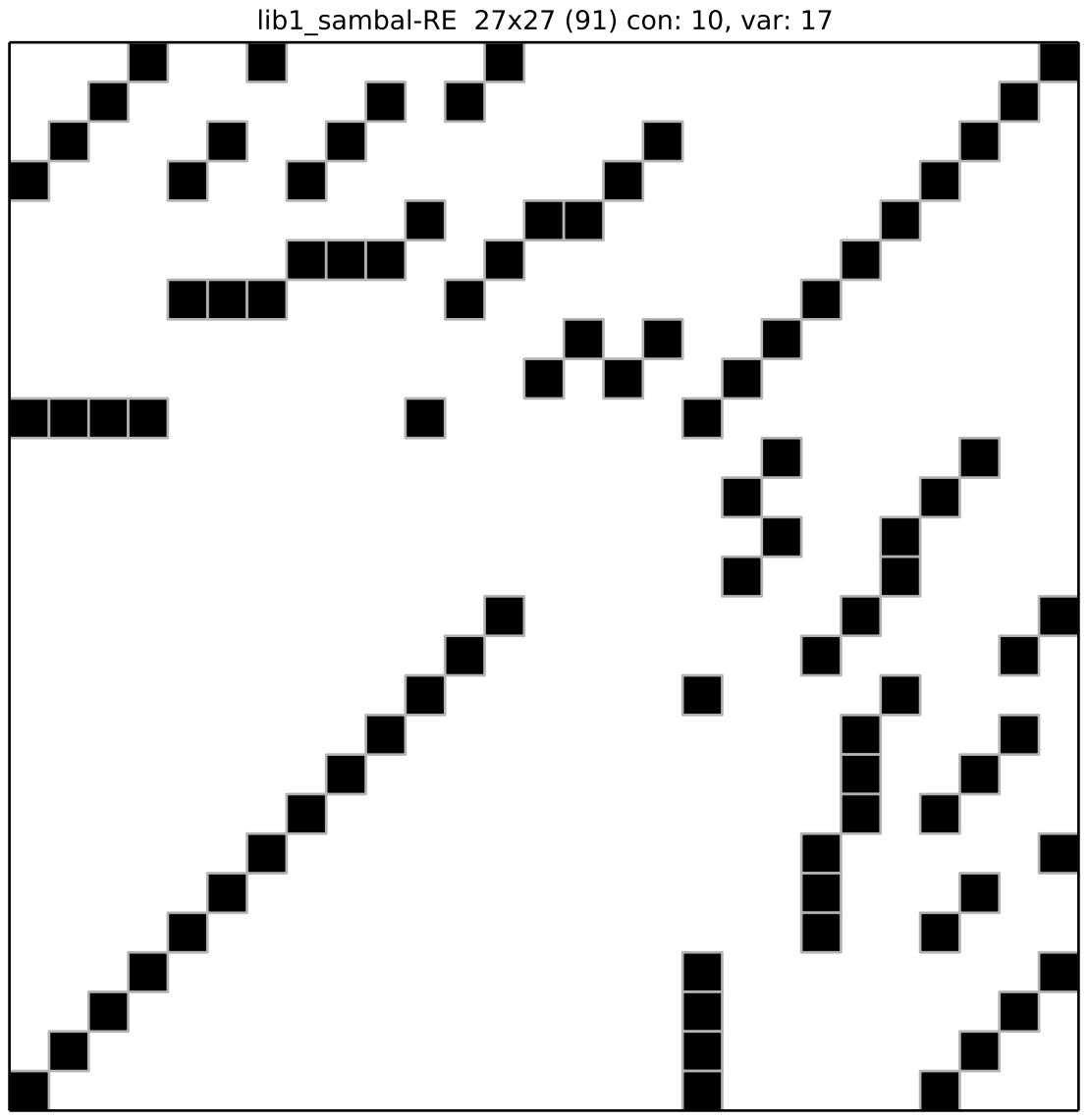
lib1_sambal-09 27x27 (91) con: 10, var: 17

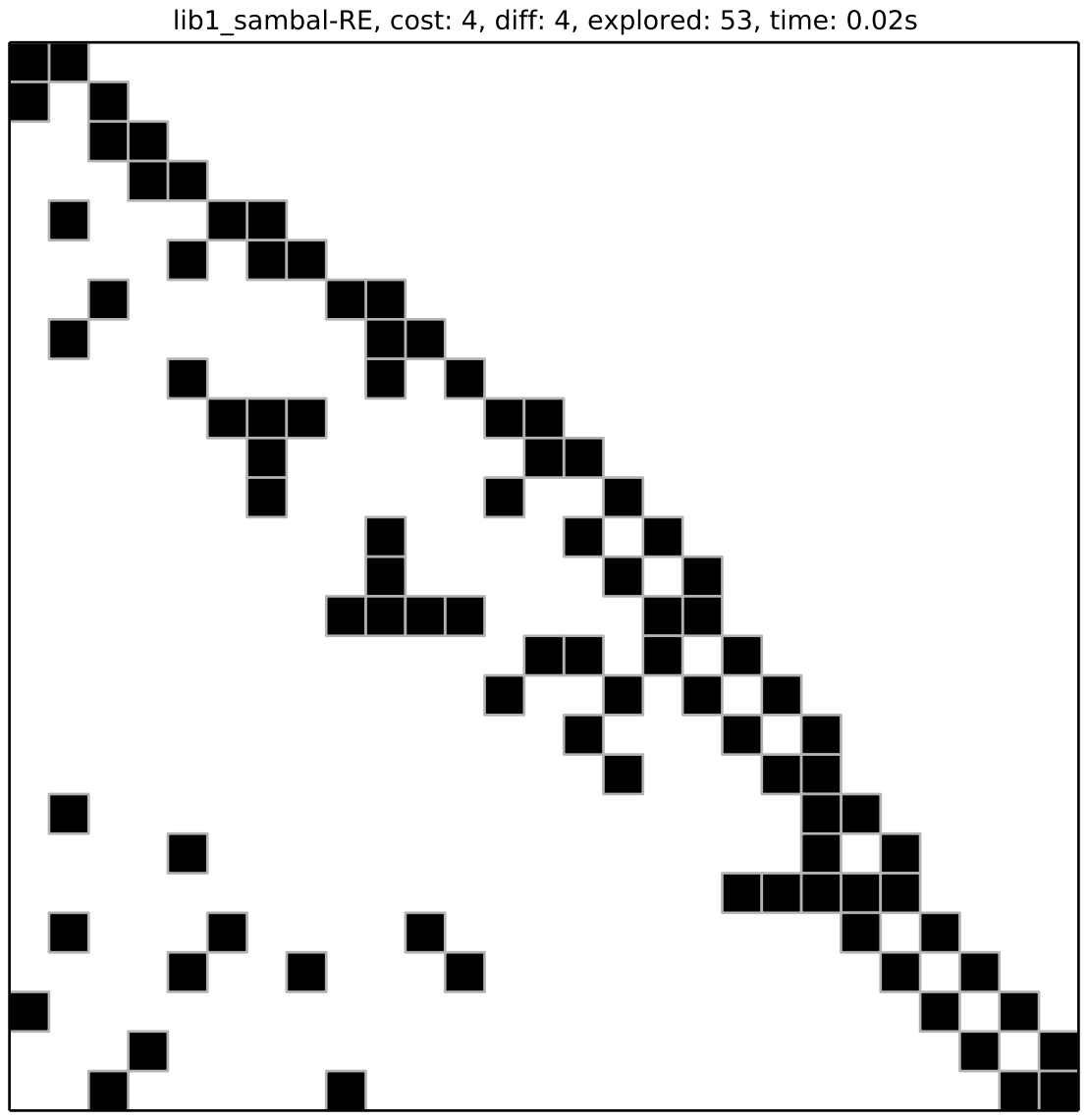



lib1_sambal-09, cost: 4, diff: 4, explored: 45, time: 0.01s

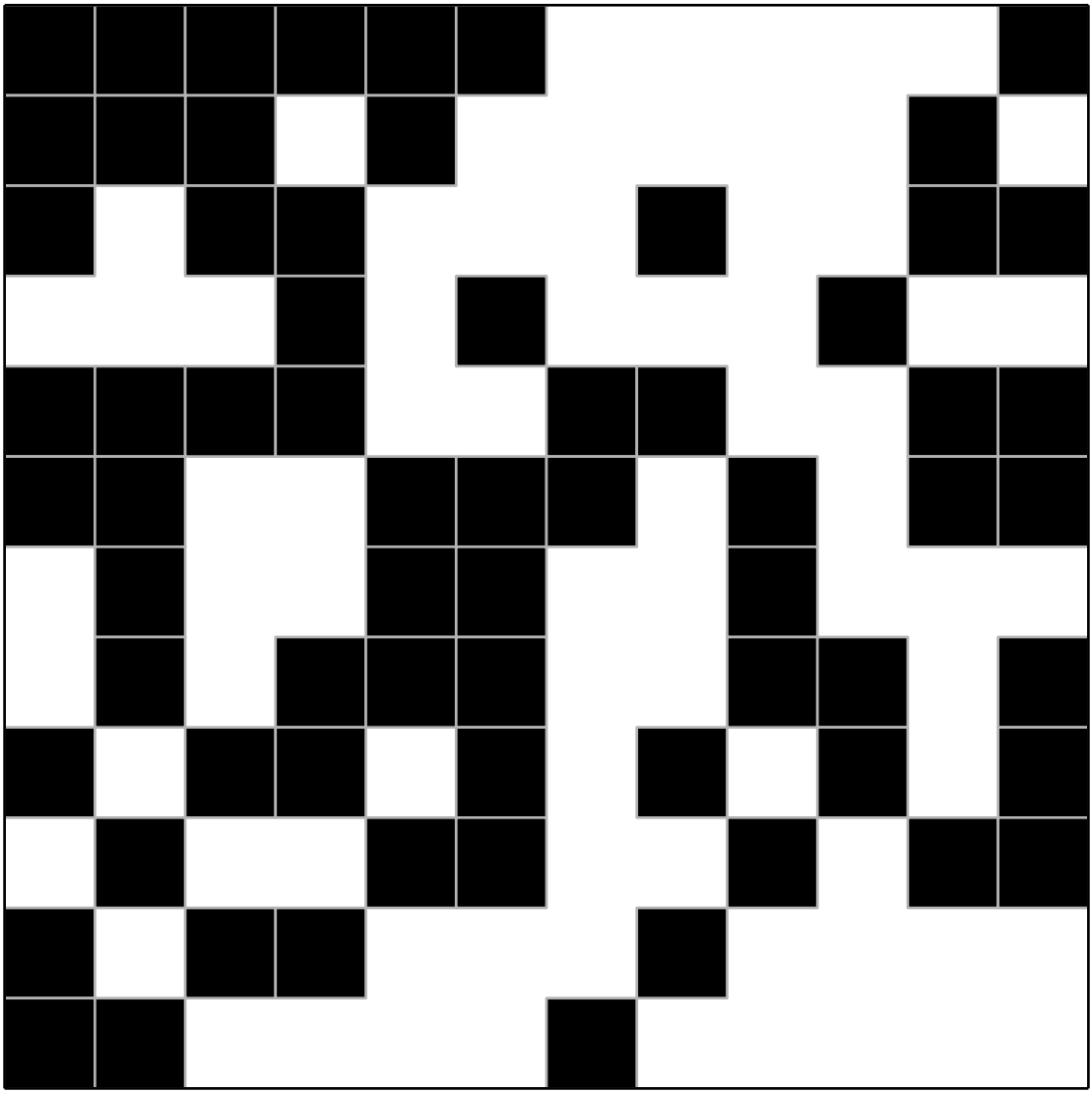

lib1_sambal-IN 27x27 (91) con: 10, var: 17

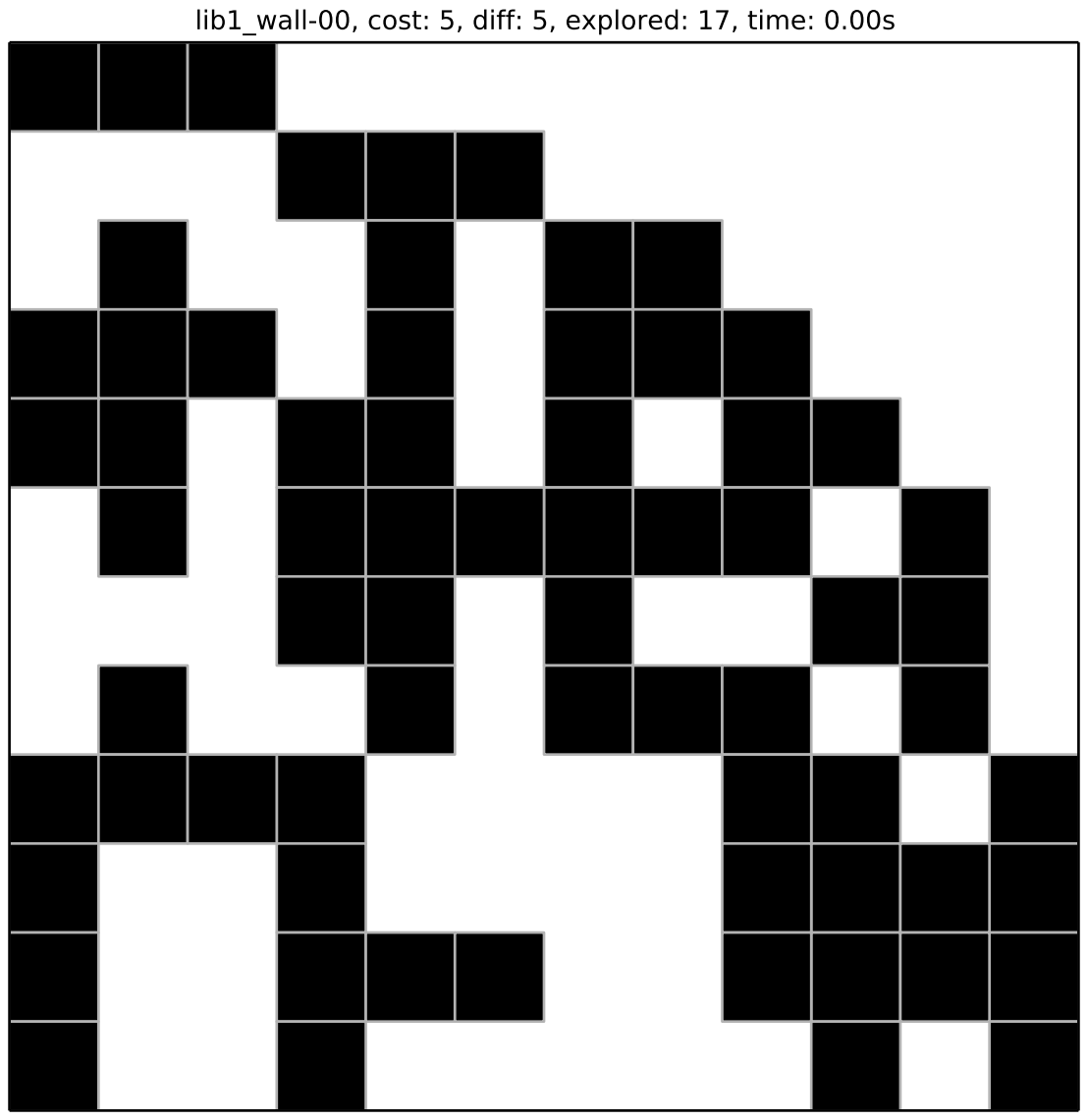

lib1_sambal-IN, cost: 4, diff: 4, explored: 45, time: 0.01s


lib1_sambal-RE 27x27 (91) con: 10, var: 17

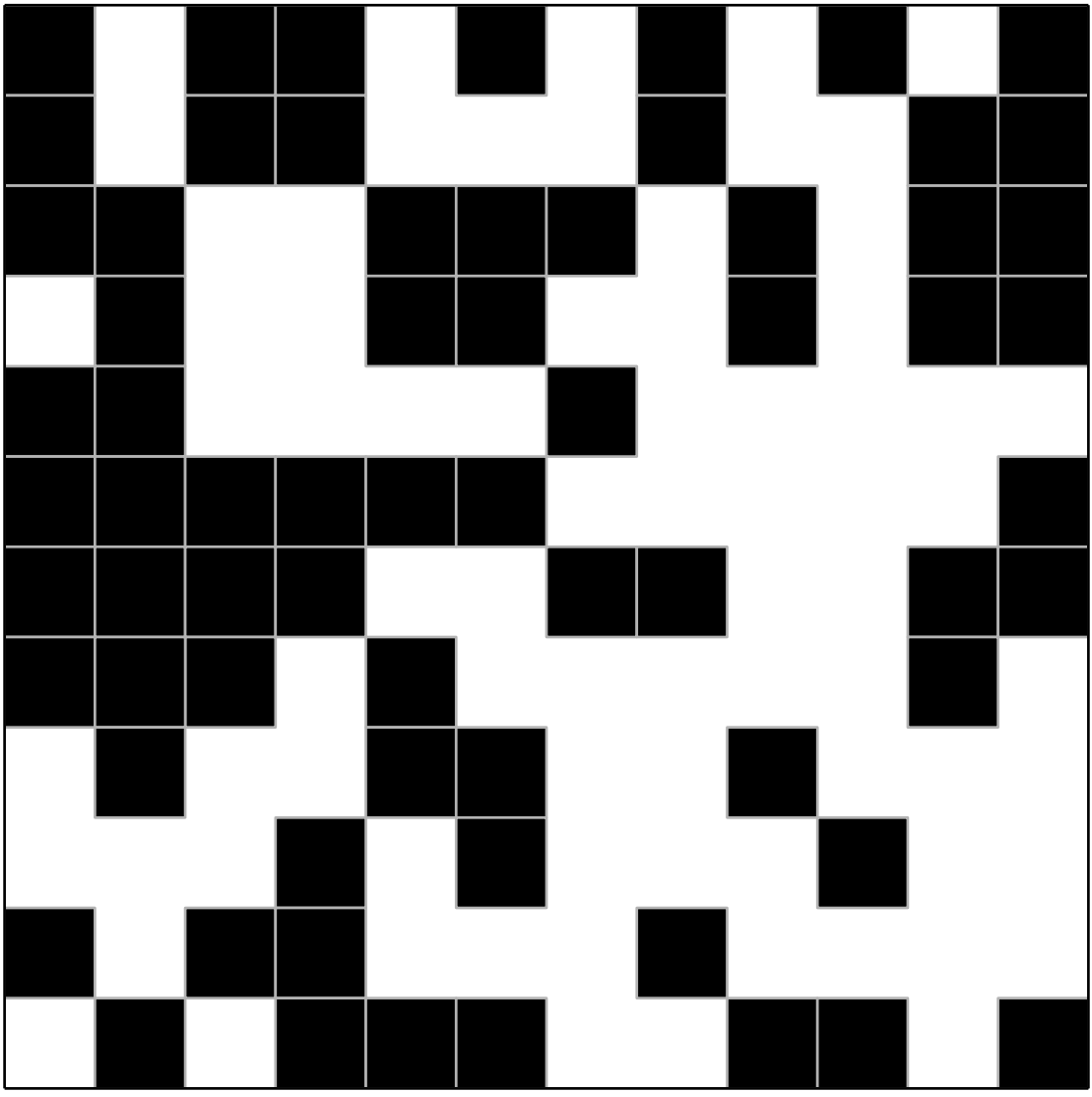

lib1_sambal-RE, cost: 4, diff: 4, explored: 53, time: 0.02s

lib1_wall-00 12x12 (68) con: 6, var: 6

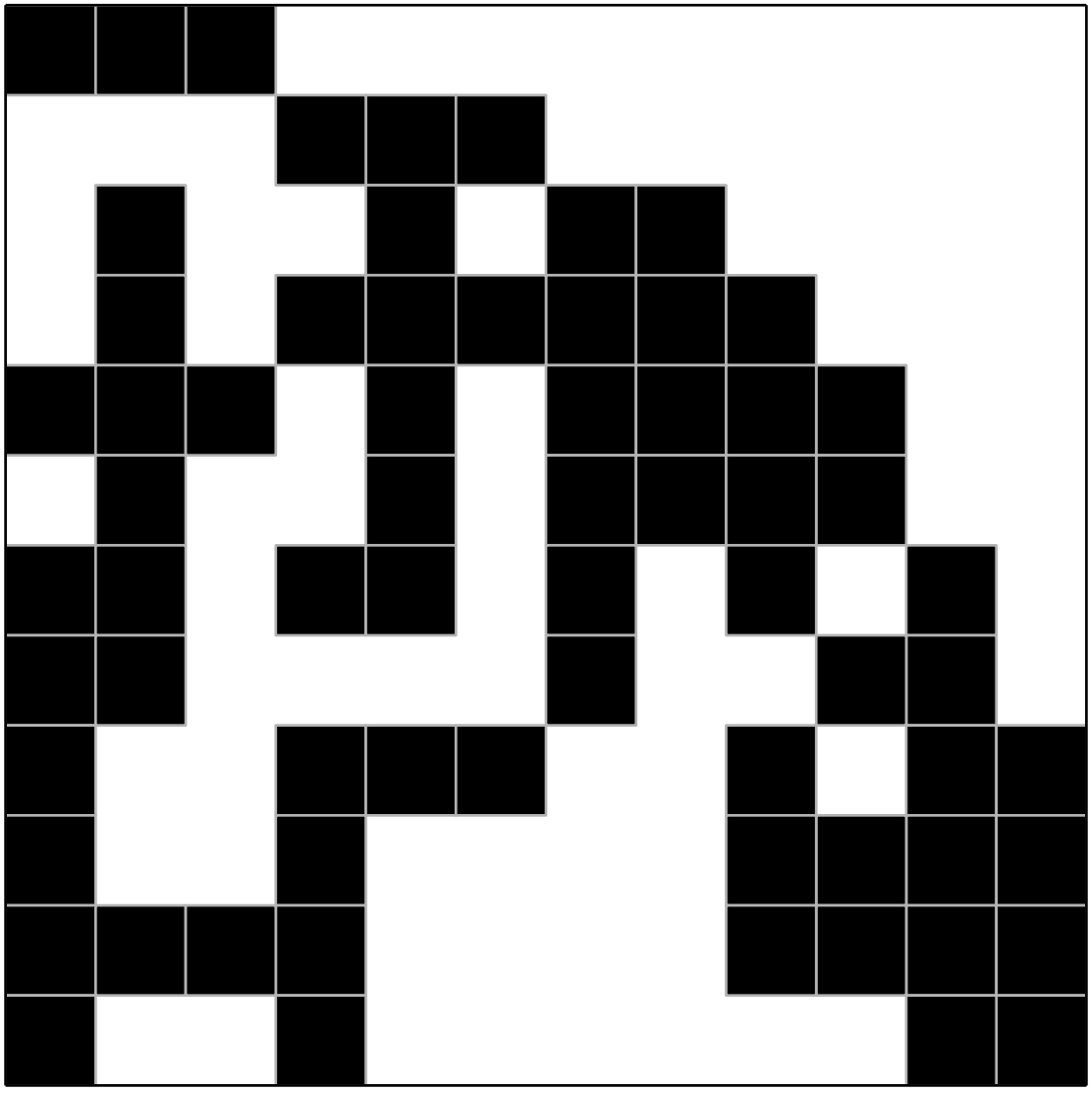



lib1_wall-00, cost: 5, diff: 5, explored: 17, time: 0.00s

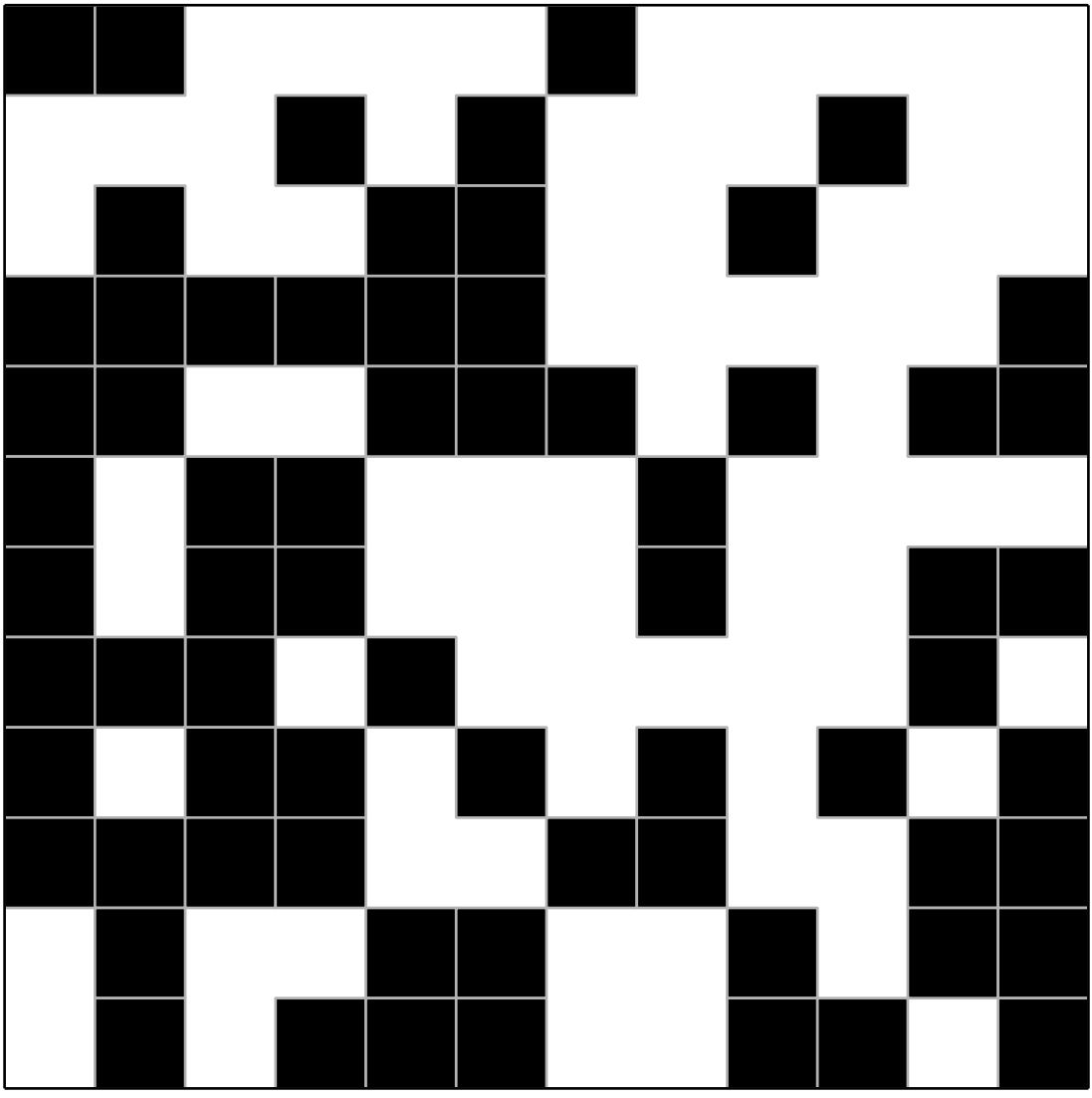
lib1_wall-01 12x12 (68) con: 6, var: 6

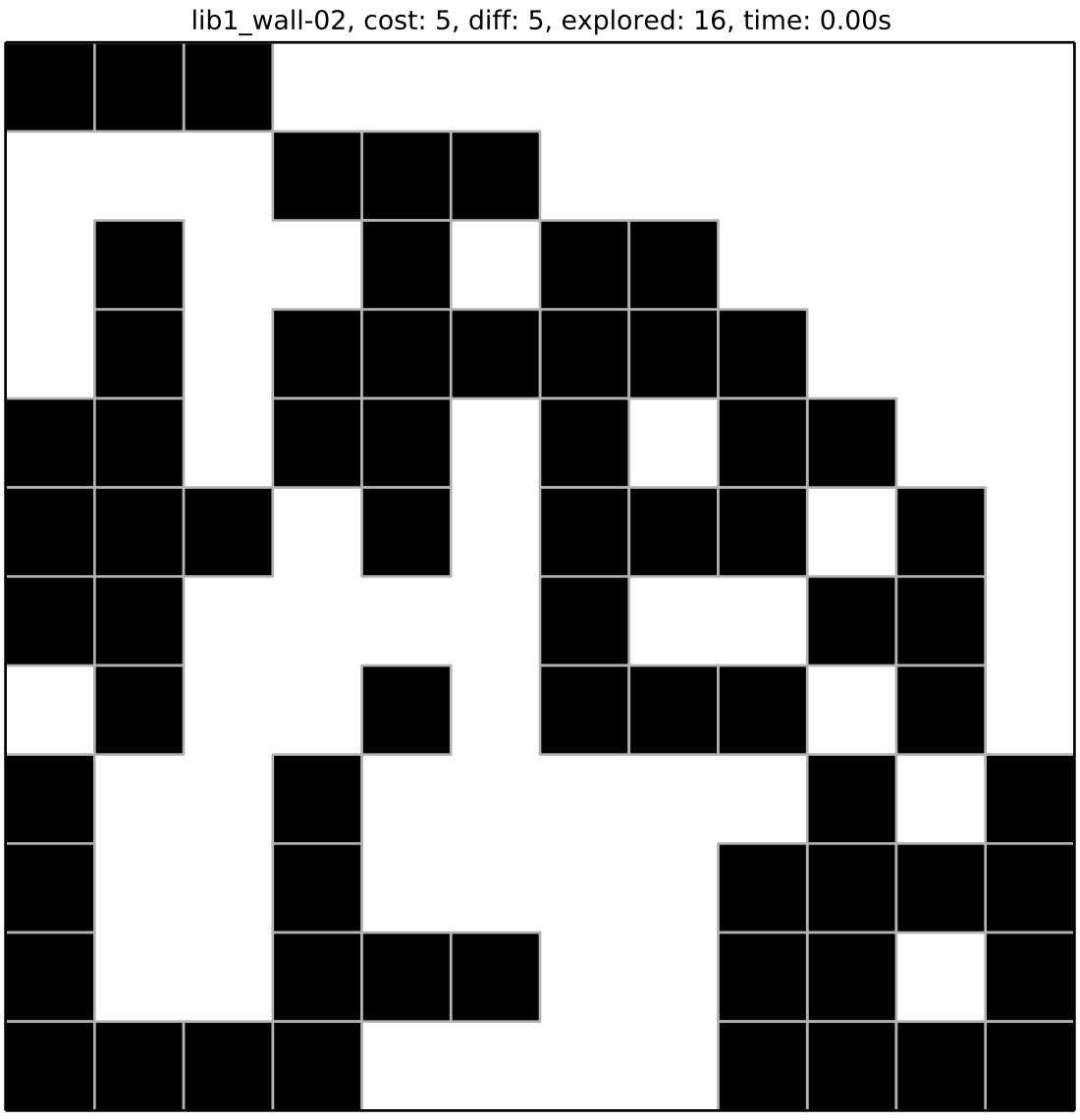


lib1_wall-01, cost: 5, diff: 5, explored: 18, time: 0.00s

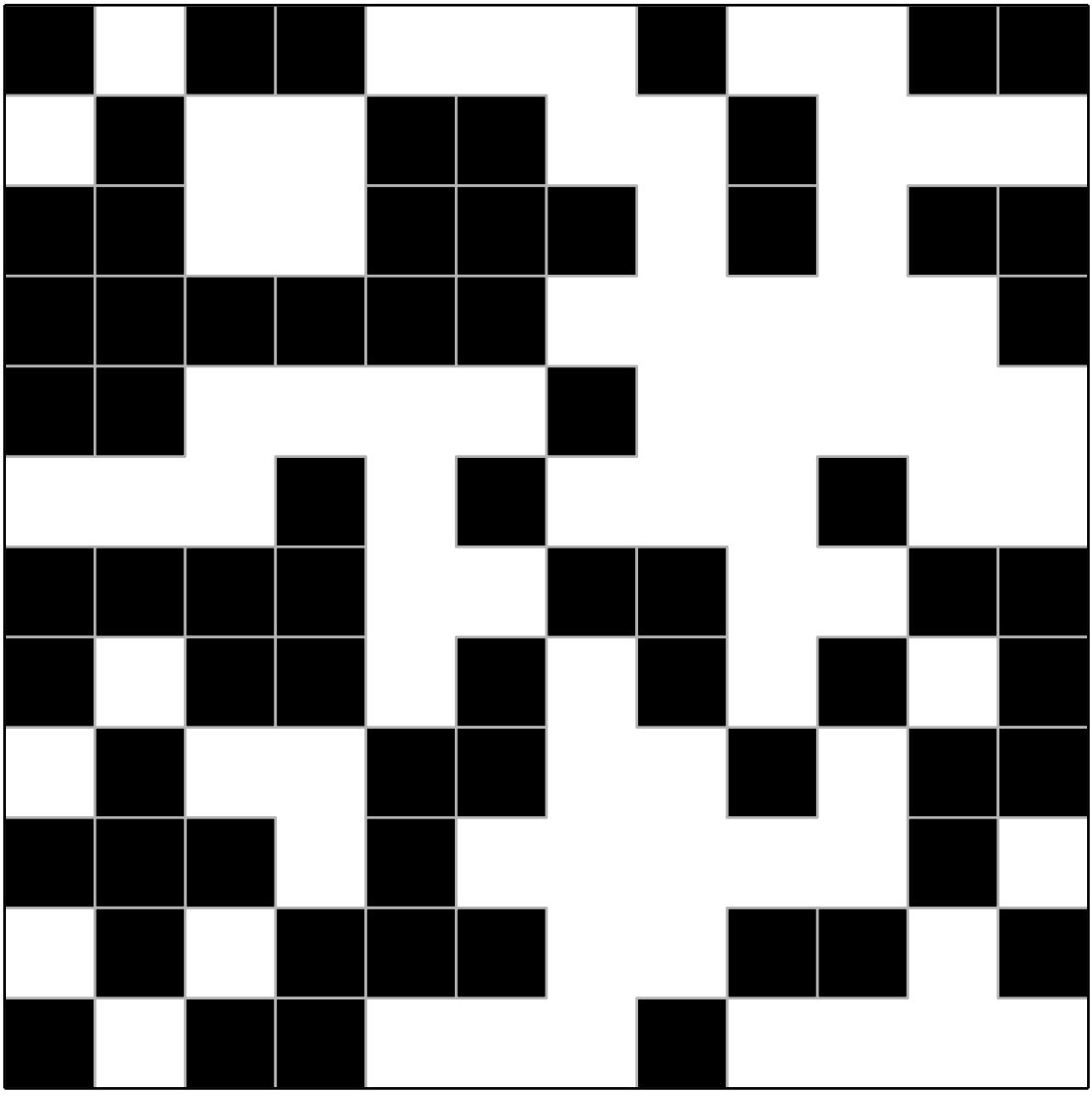


lib1_wall-02 12x12 (68) con: 6, var: 6

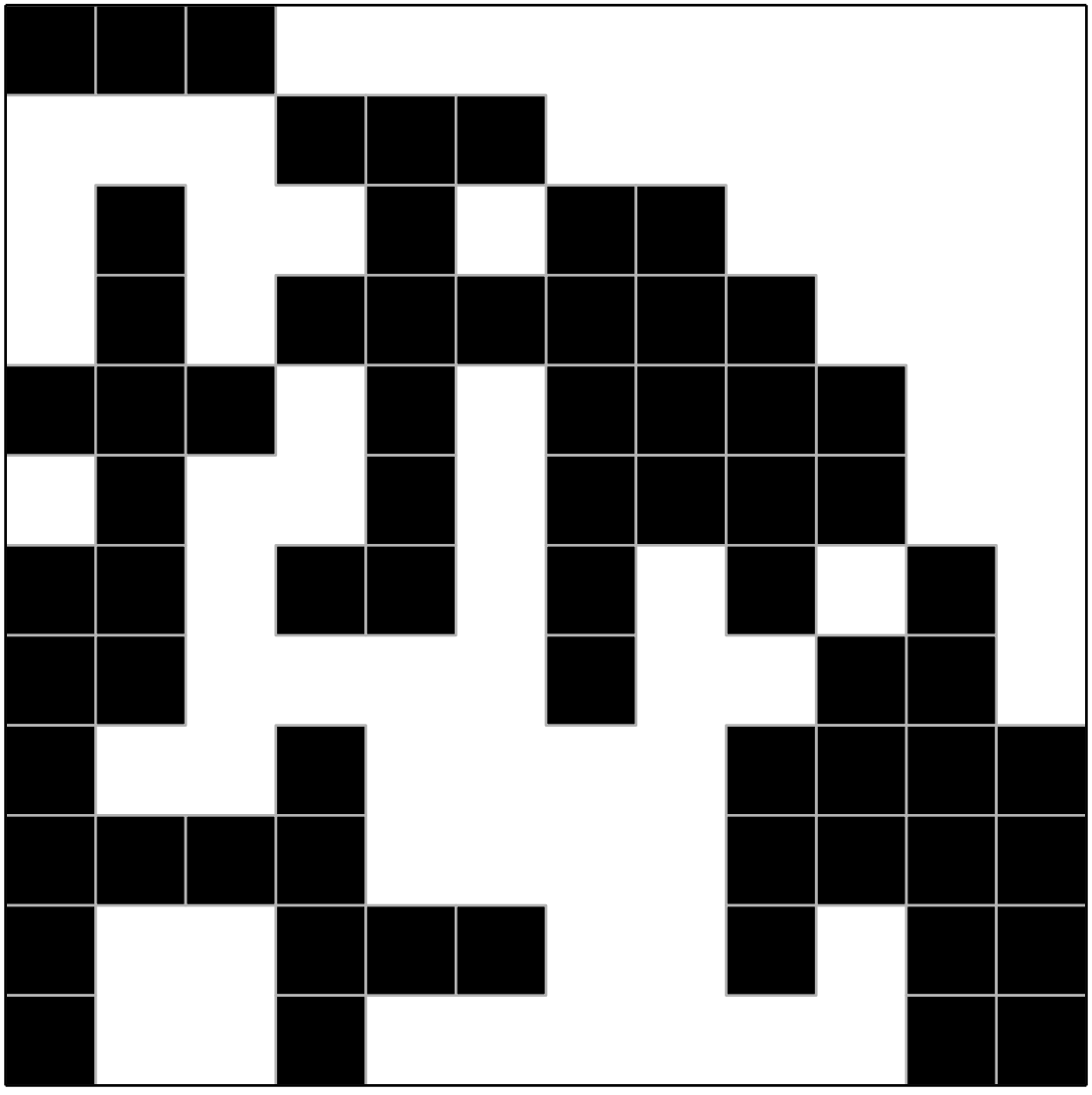



lib1_wall-02, cost: 5, diff: 5, explored: 16, time: 0.00s

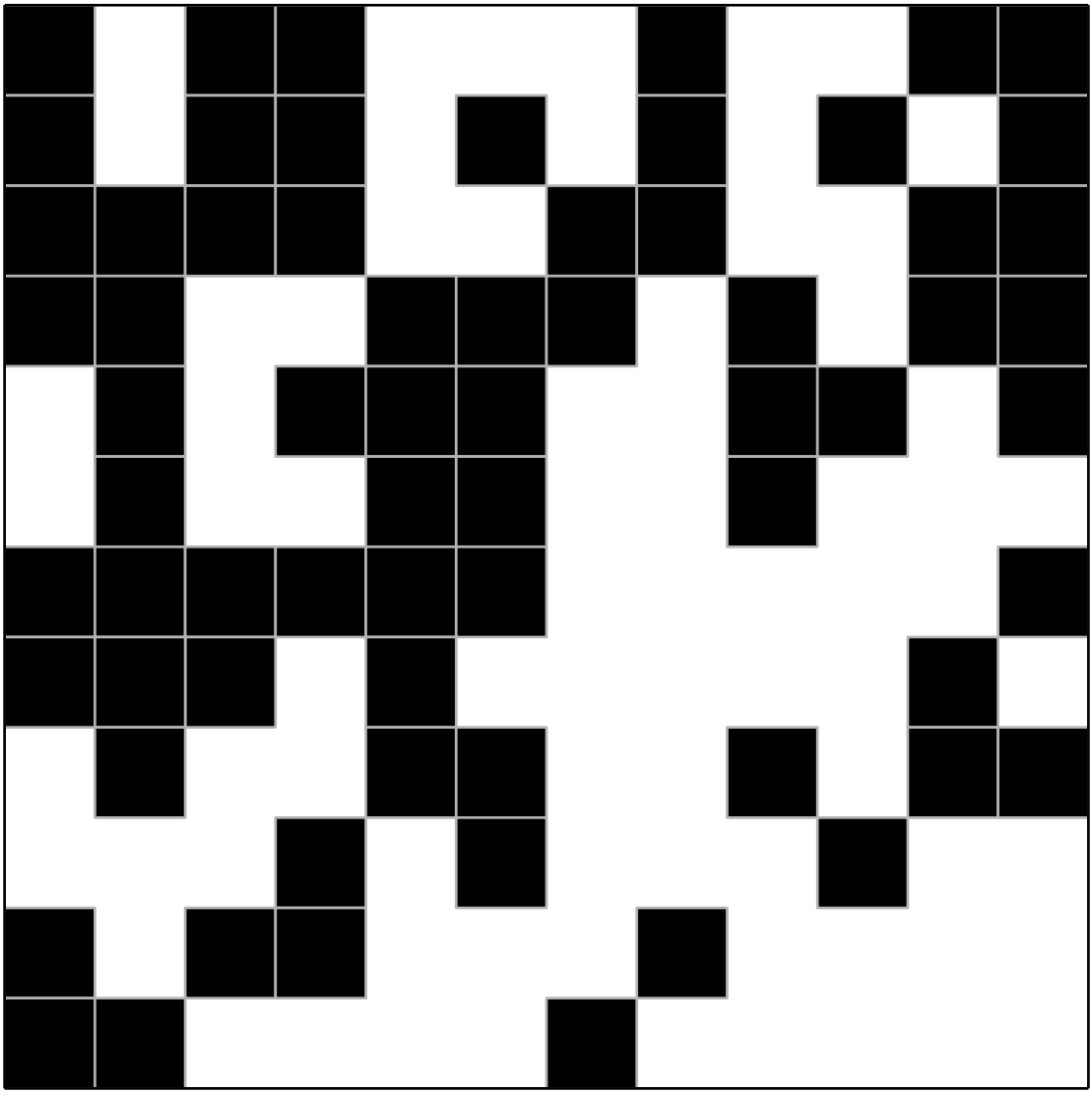
lib1_wall-03 12x12 (68) con: 6, var: 6



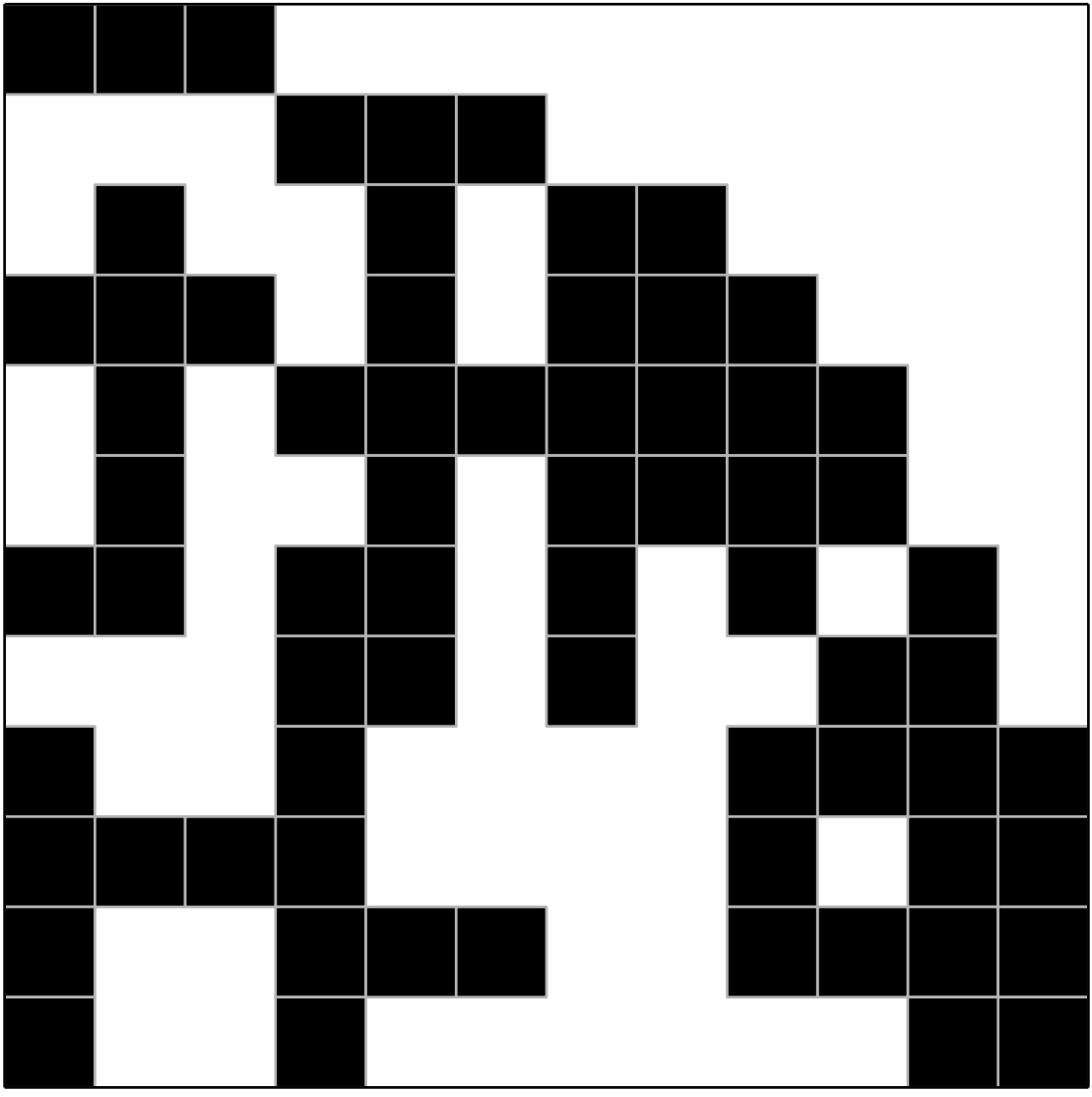
lib1_wall-03, cost: 5, diff: 5, explored: 17, time: 0.00s



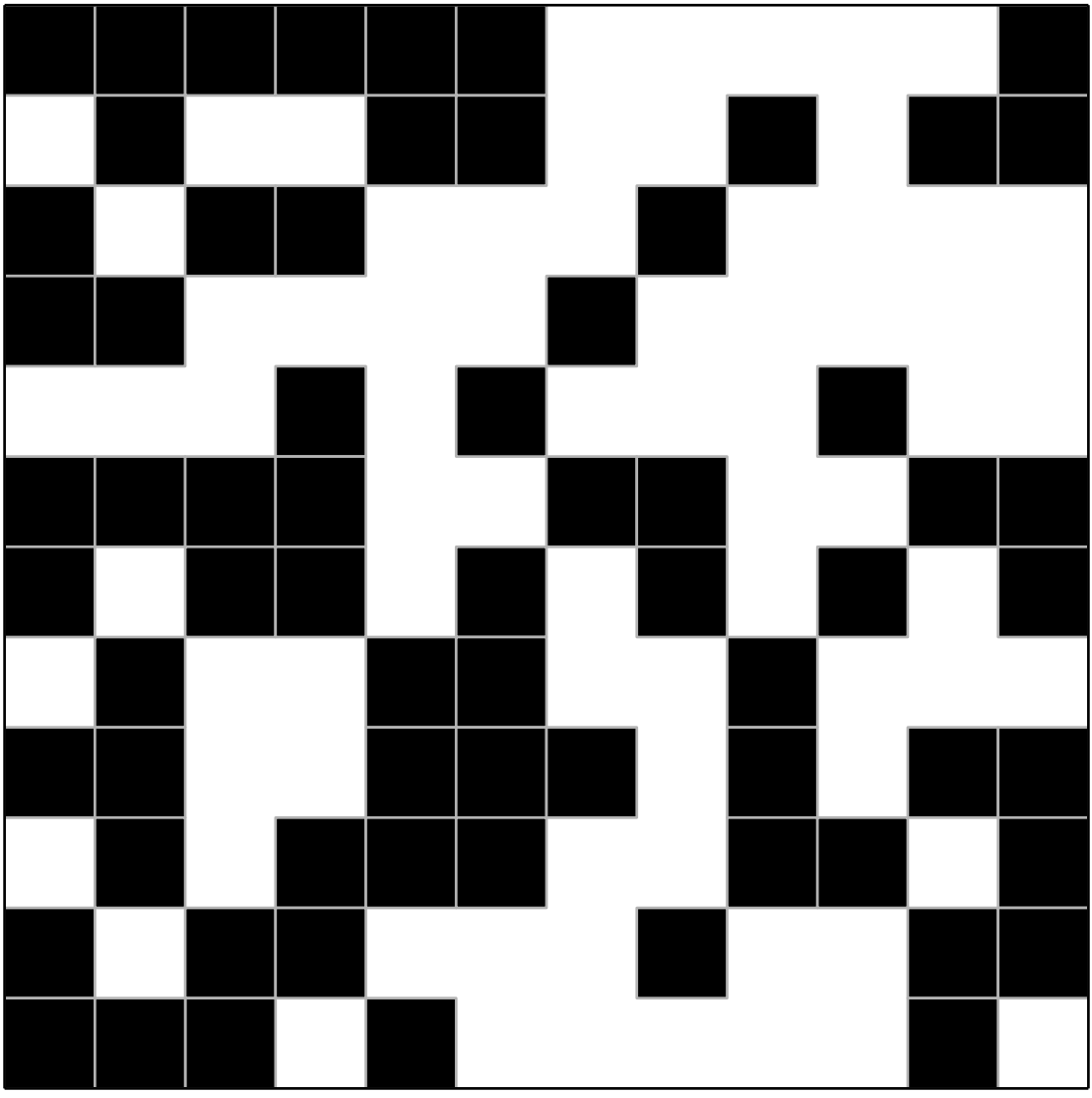
lib1_wall-04 12x12 (68) con: 6, var: 6

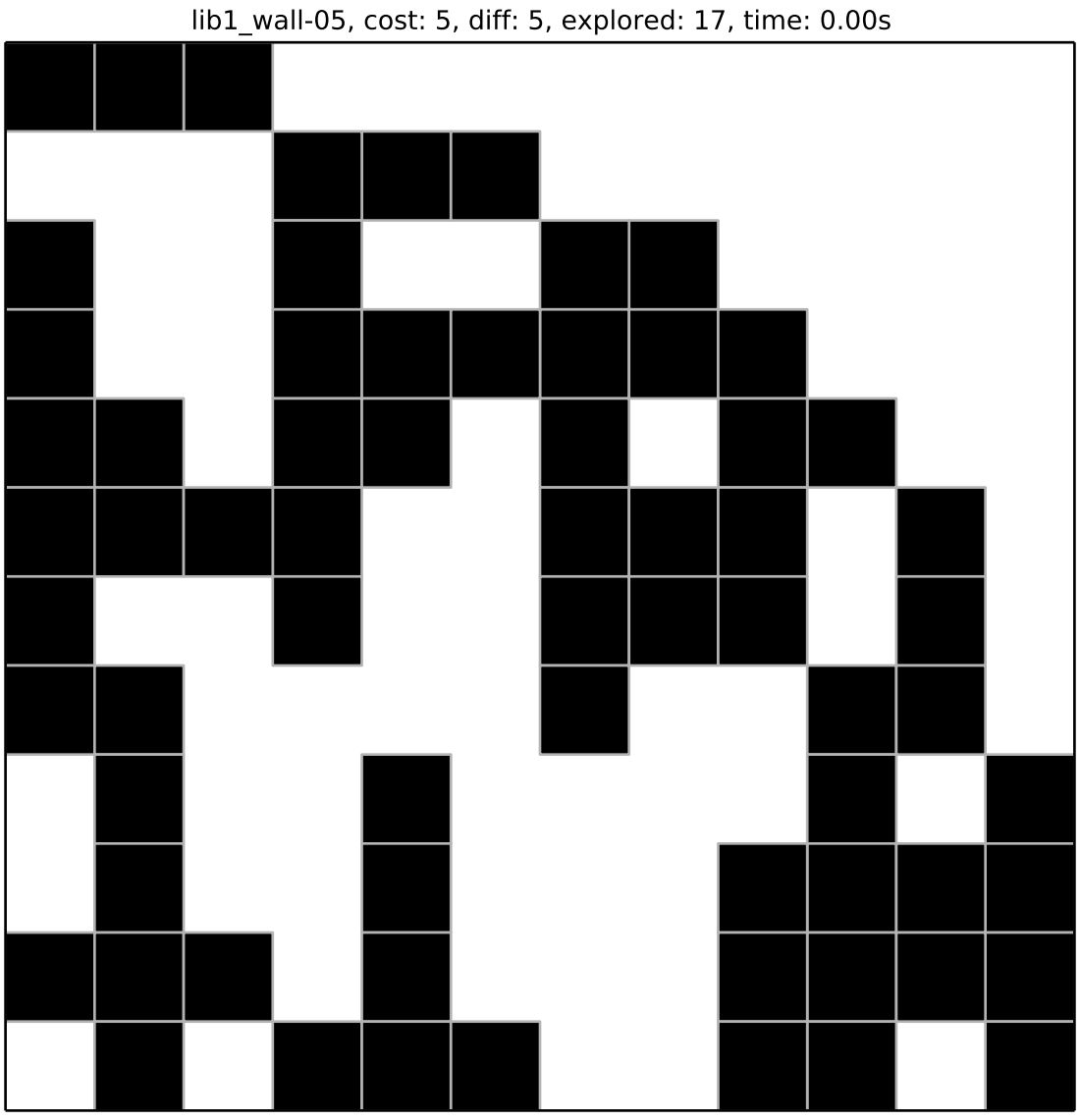


lib1_wall-04, cost: 5, diff: 5, explored: 18, time: 0.00s

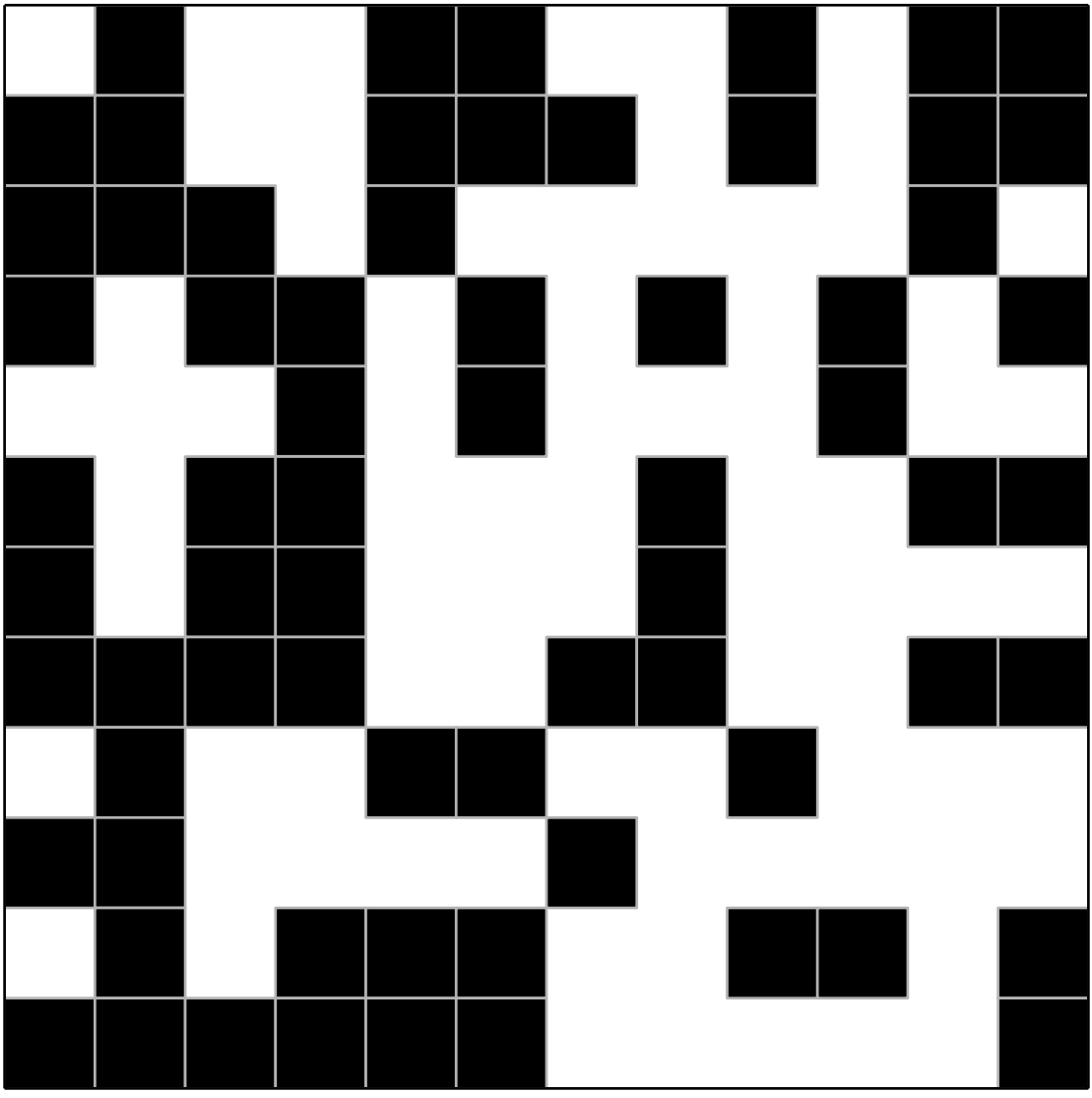


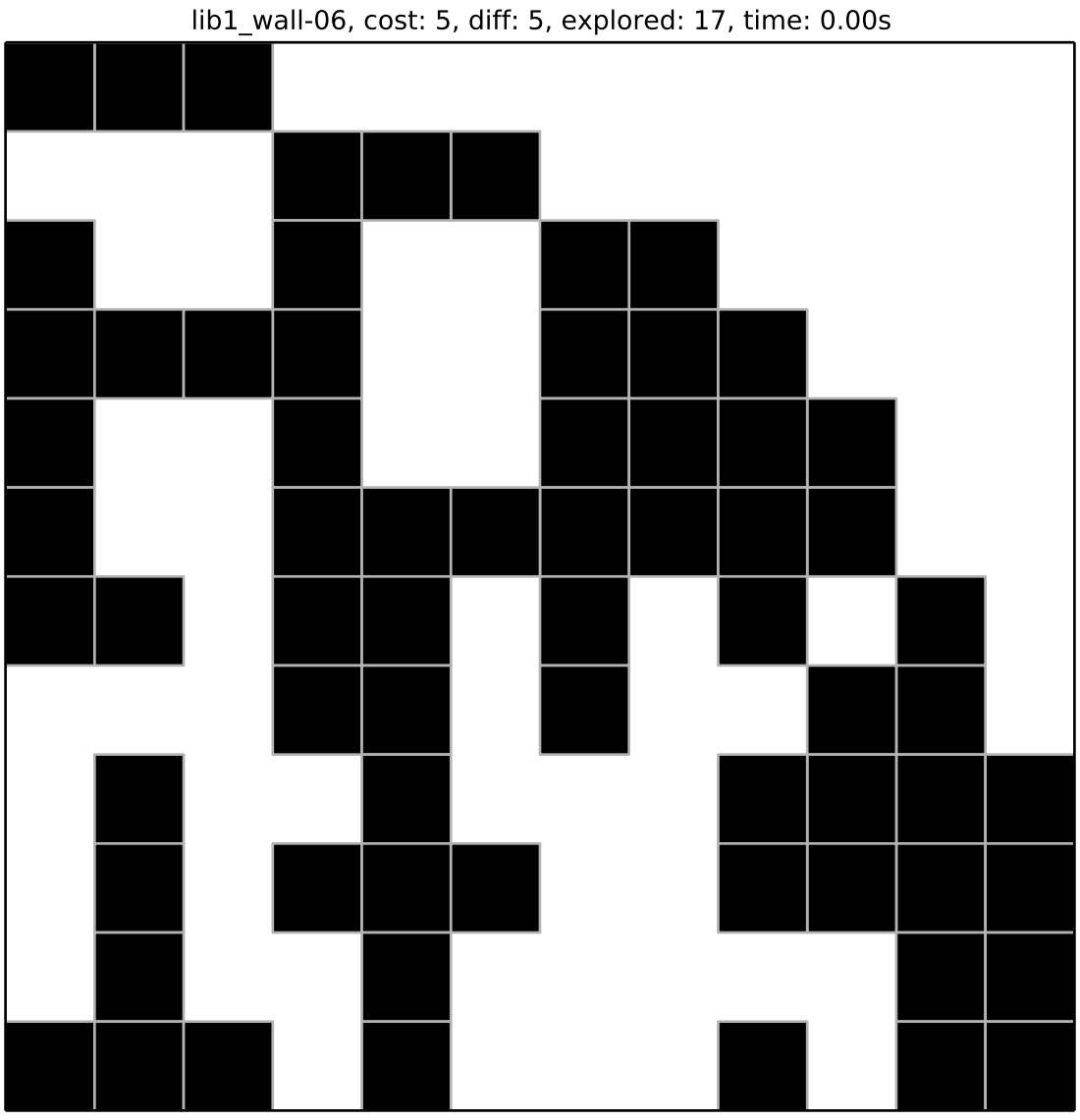
lib1_wall-05 12x12 (68) con: 6, var: 6



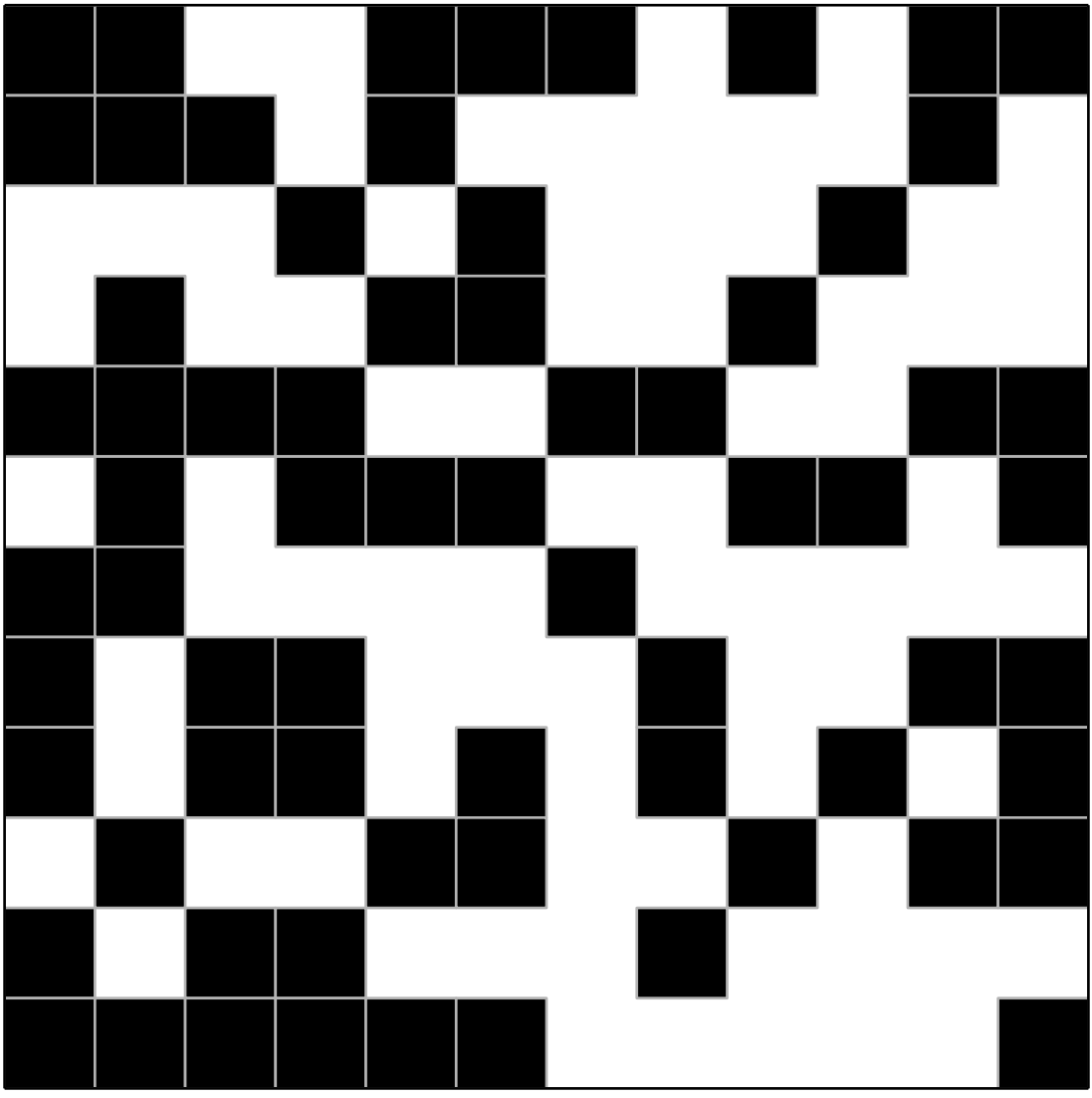

lib1_wall-05, cost: 5, diff: 5, explored: 17, time: 0.00s

lib1_wall-06 12x12 (68) con: 6, var: 6

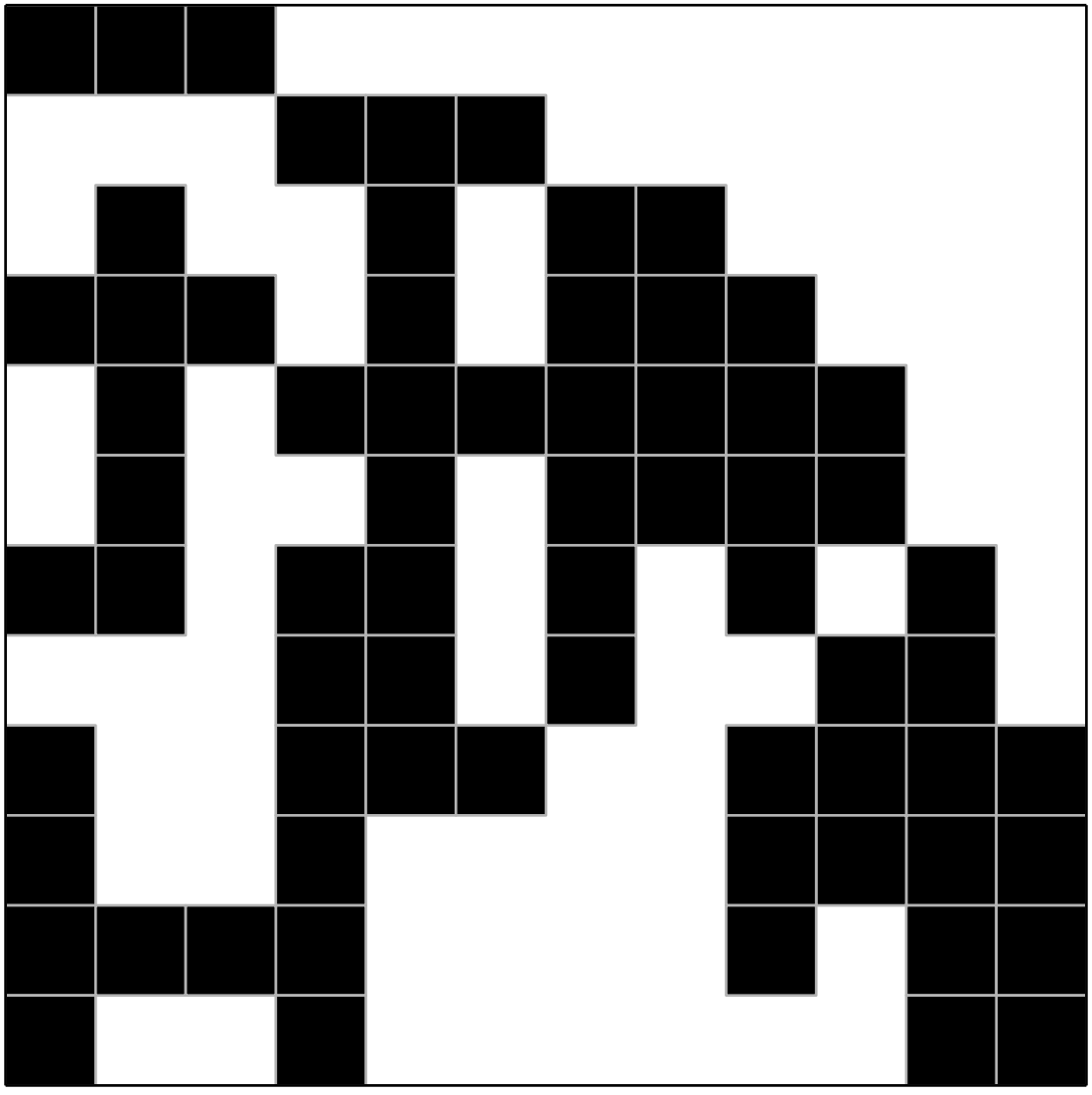



lib1_wall-06, cost: 5, diff: 5, explored: 17, time: 0.00s

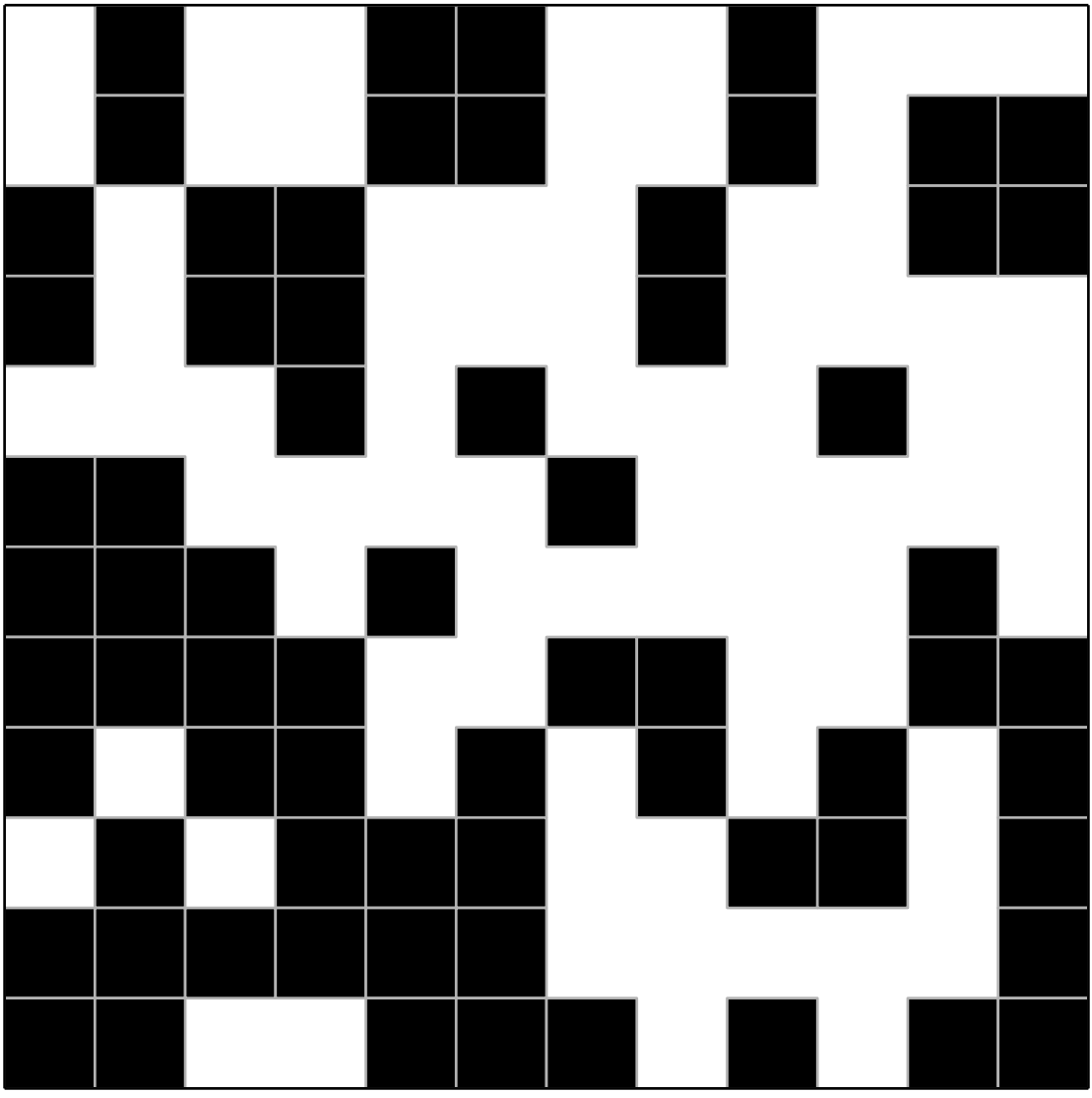
lib1_wall-07 12x12 (68) con: 6, var: 6



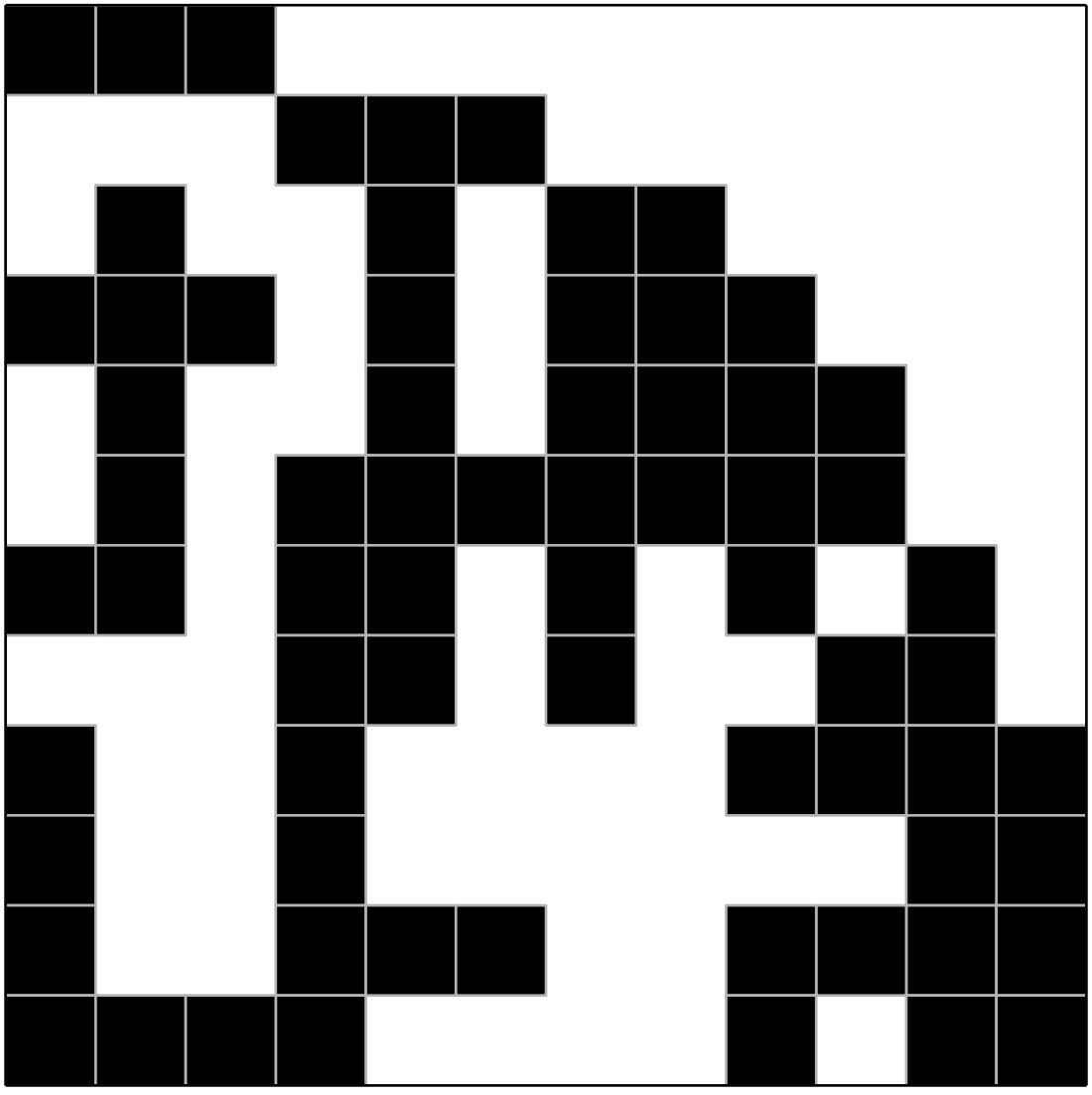
lib1_wall-07, cost: 5, diff: 5, explored: 16, time: 0.00s



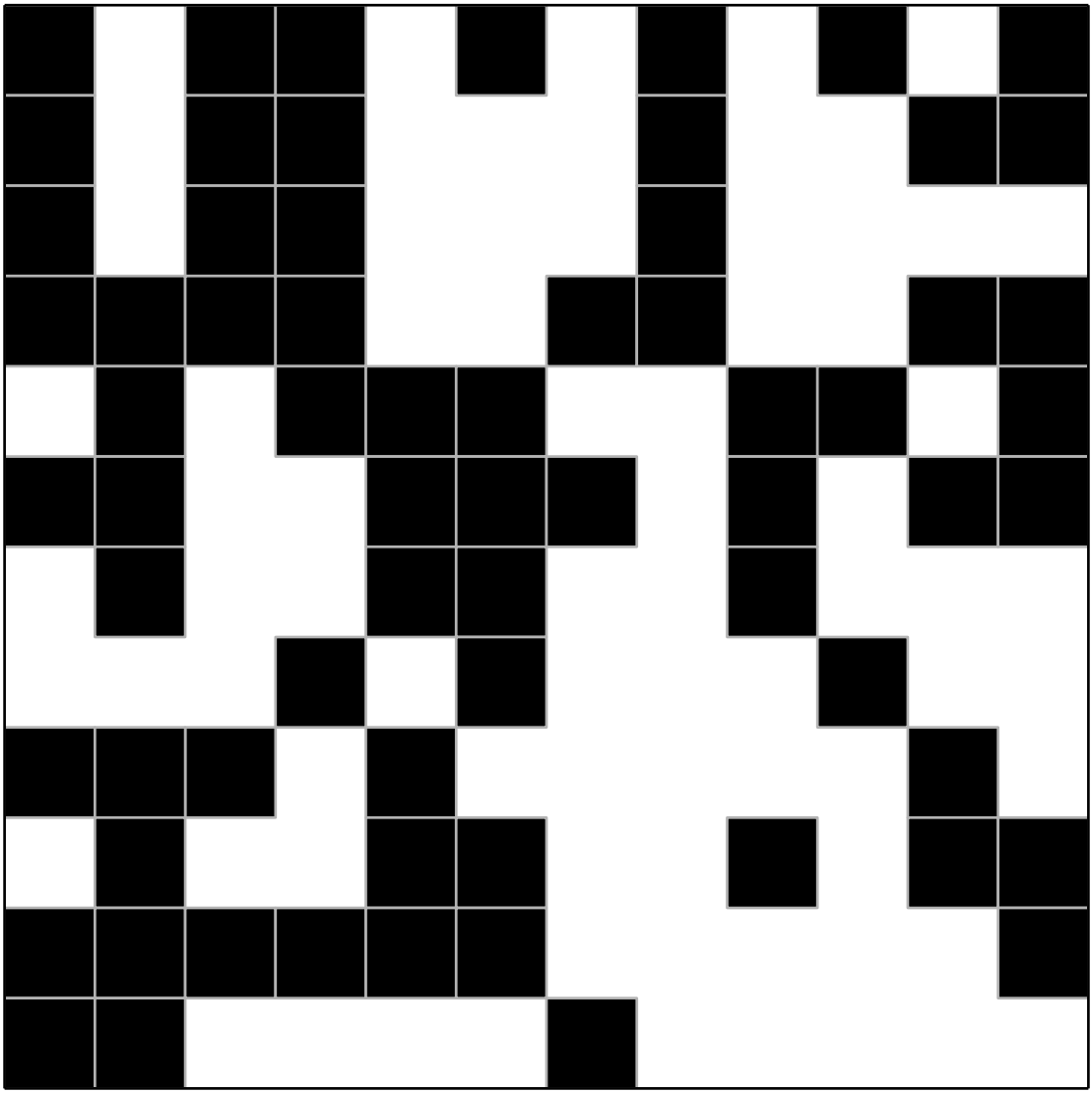
lib1_wall-08 12x12 (68) con: 6, var: 6

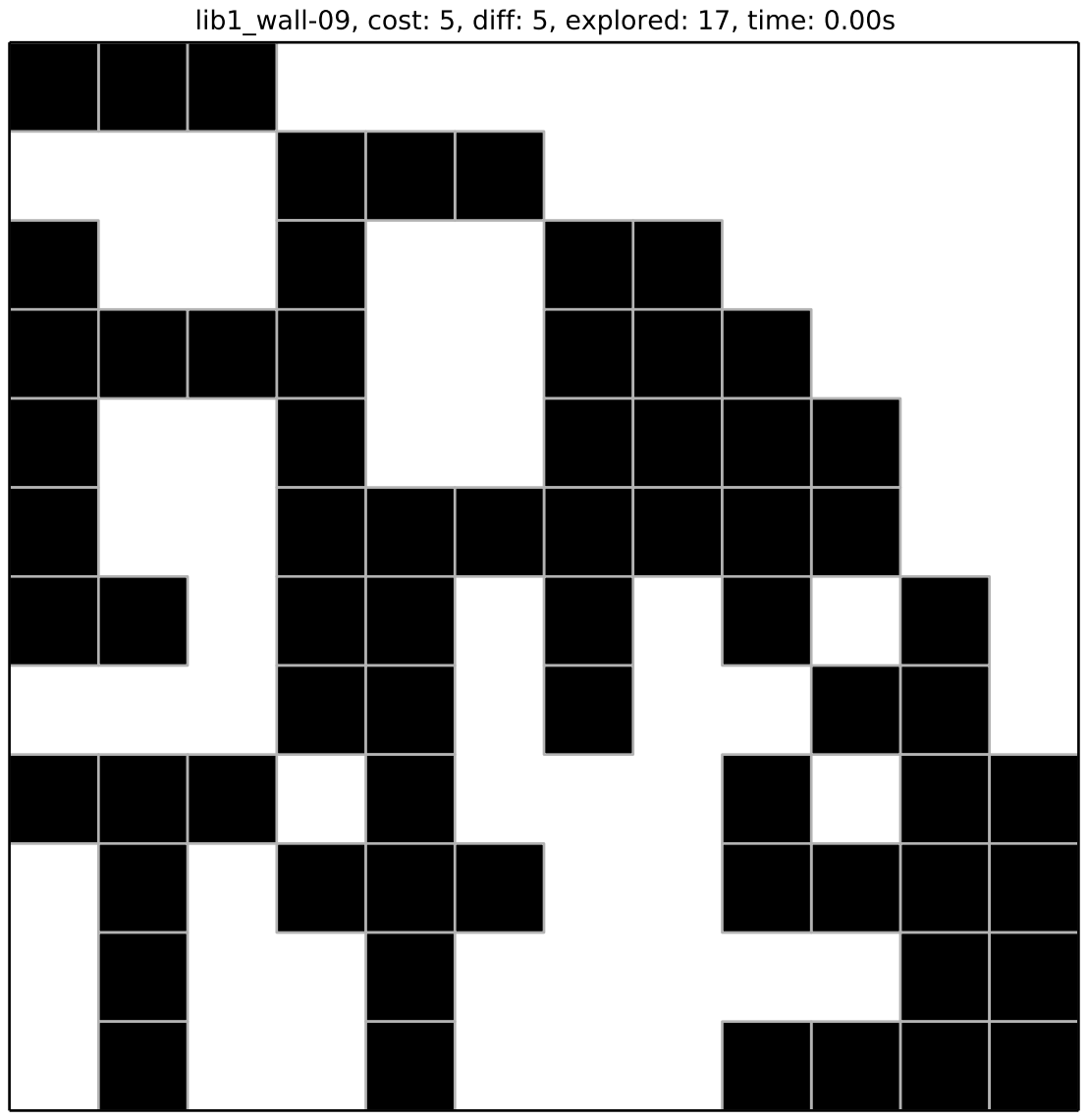


lib1_wall-08, cost: 5, diff: 5, explored: 18, time: 0.00s



lib1_wall-09 12x12 (68) con: 6, var: 6

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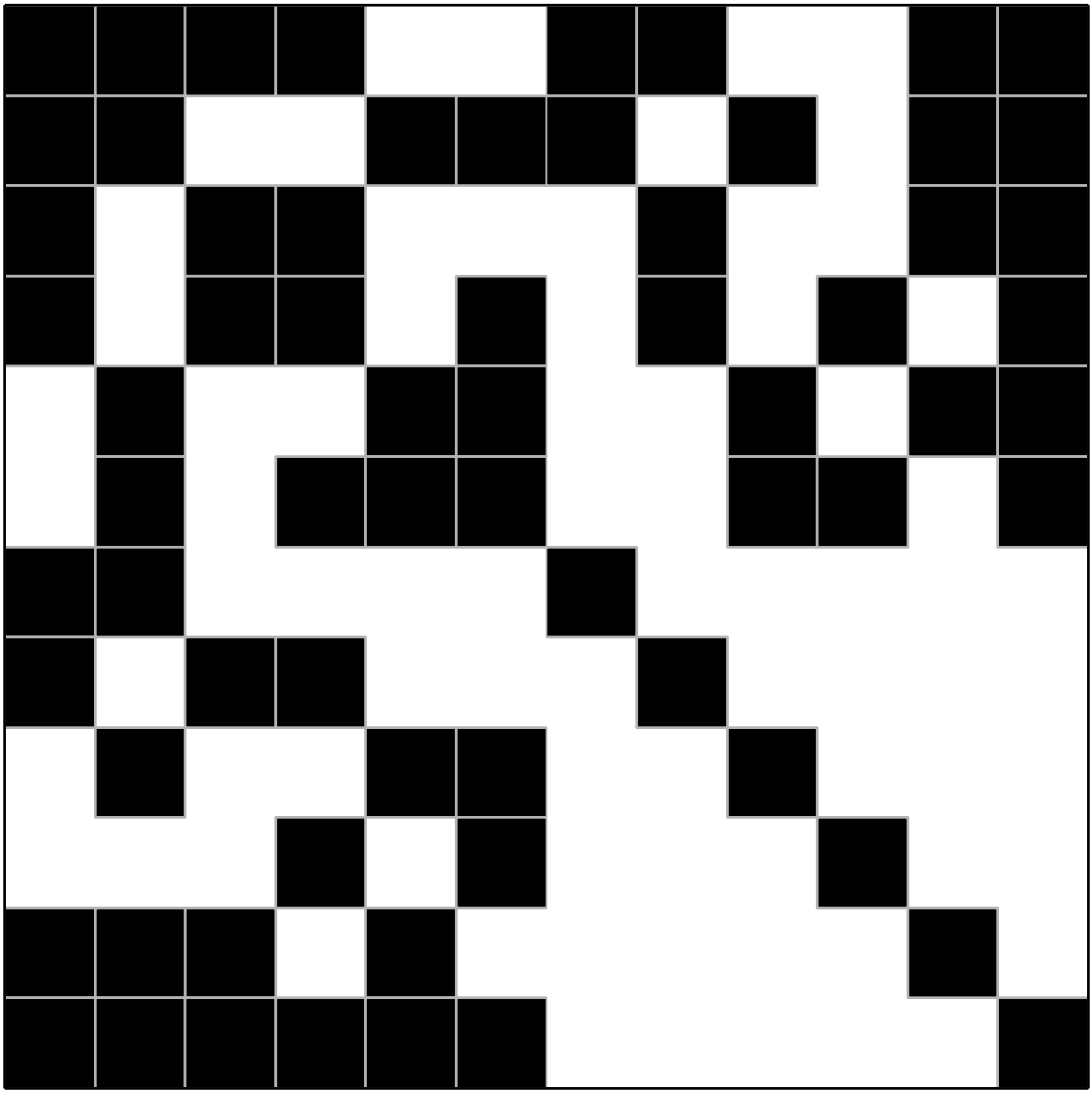
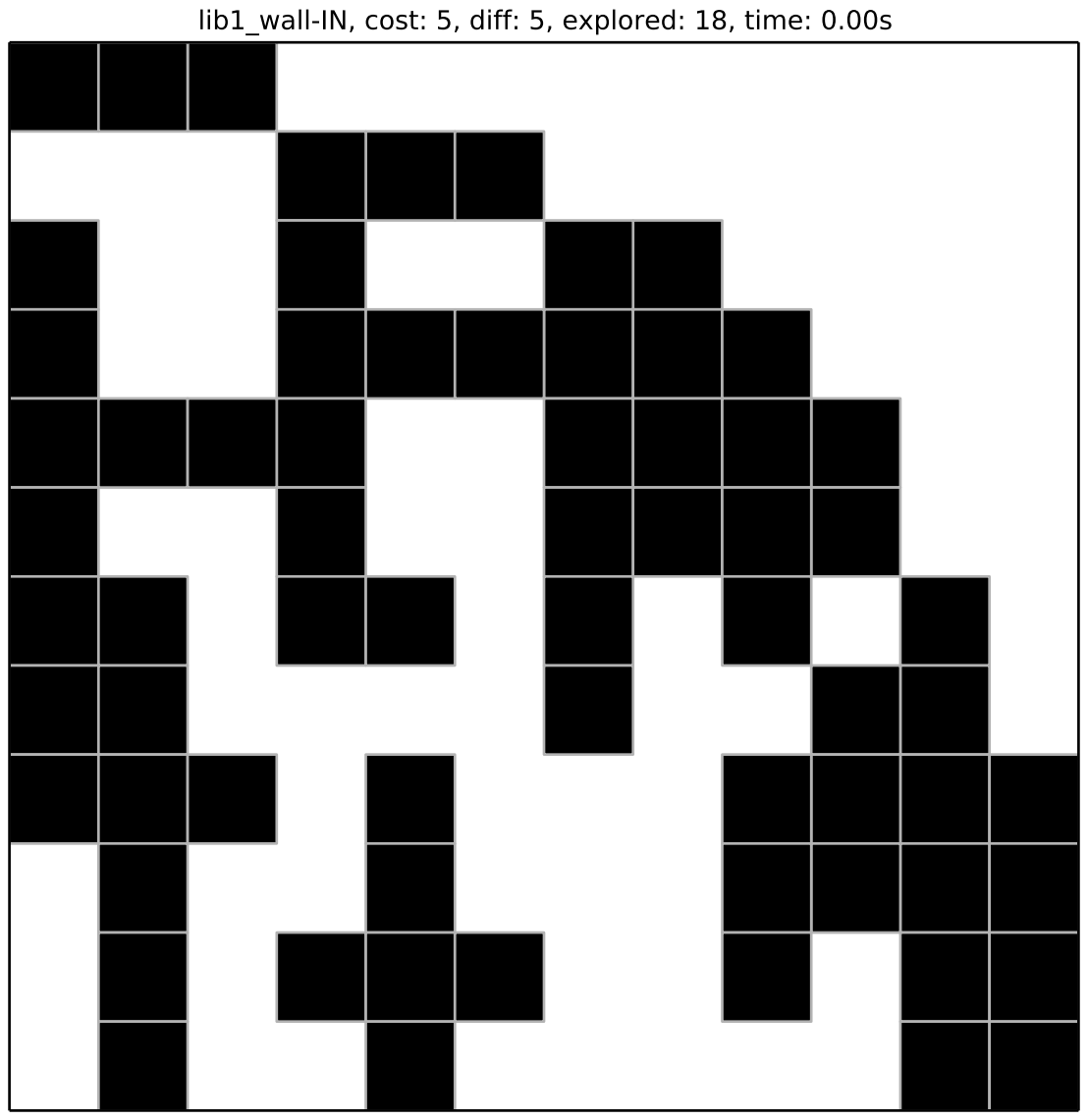
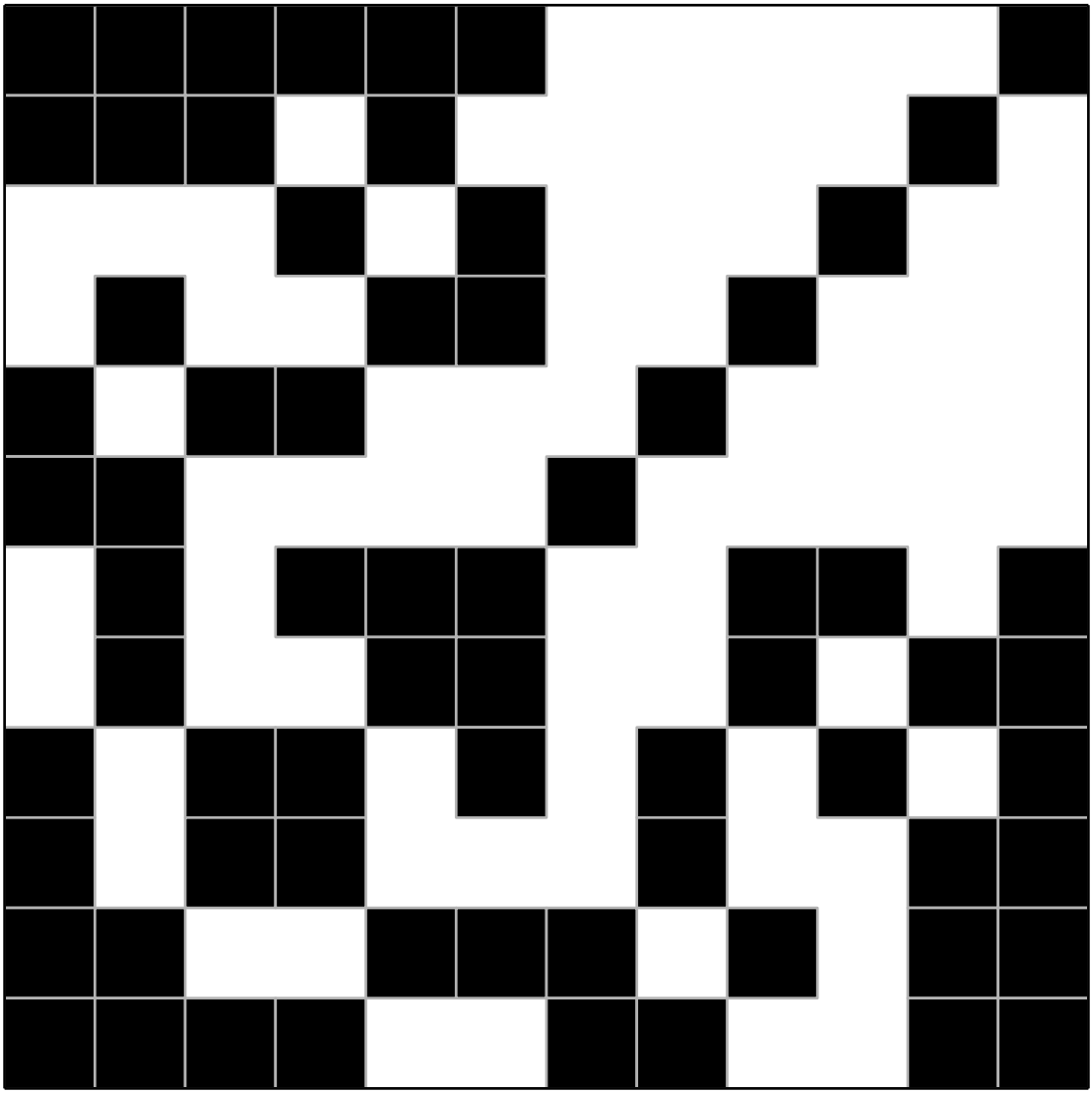
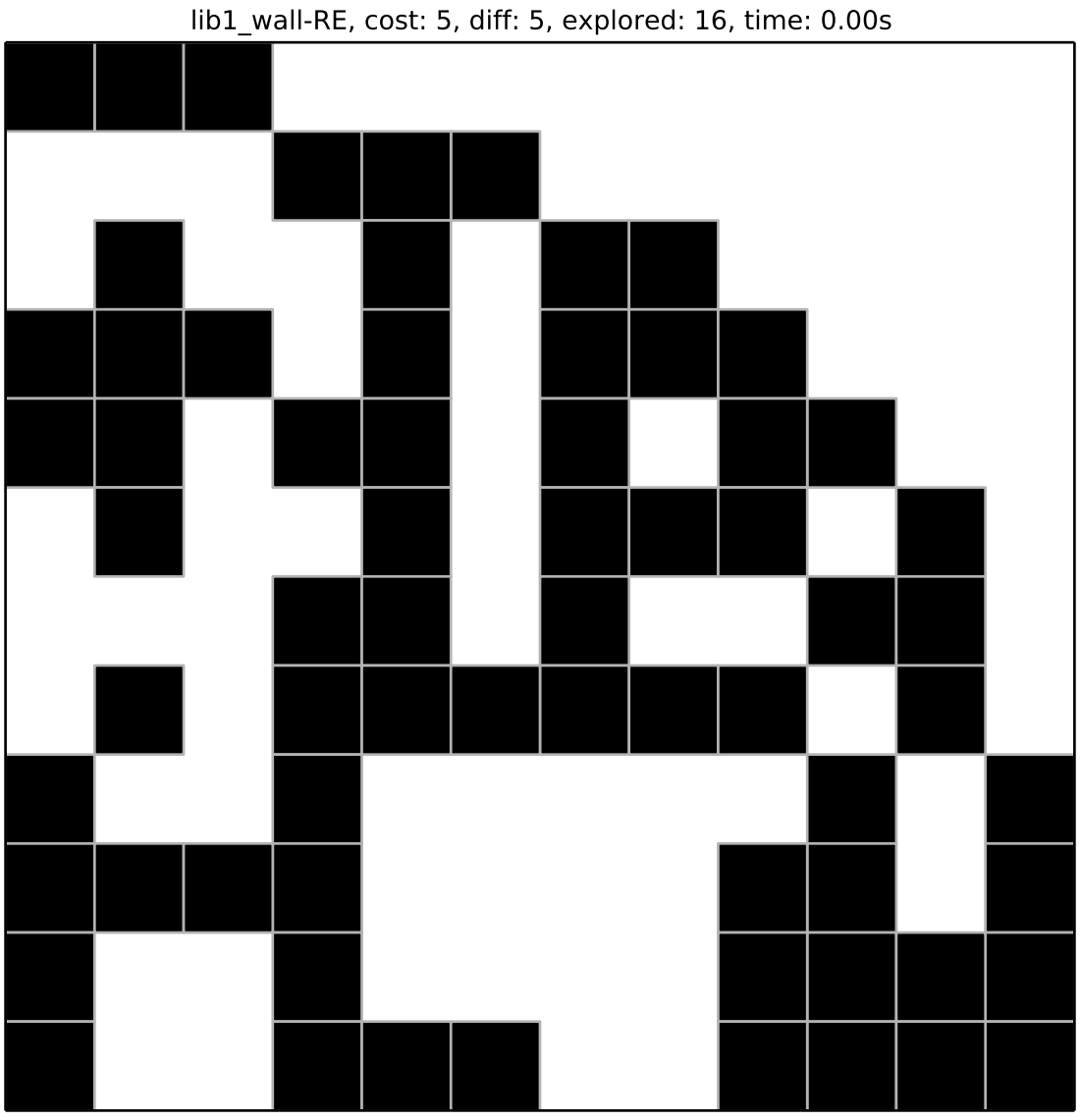
lib1_wall-IN 12x12 (68) con: 6, var: 6



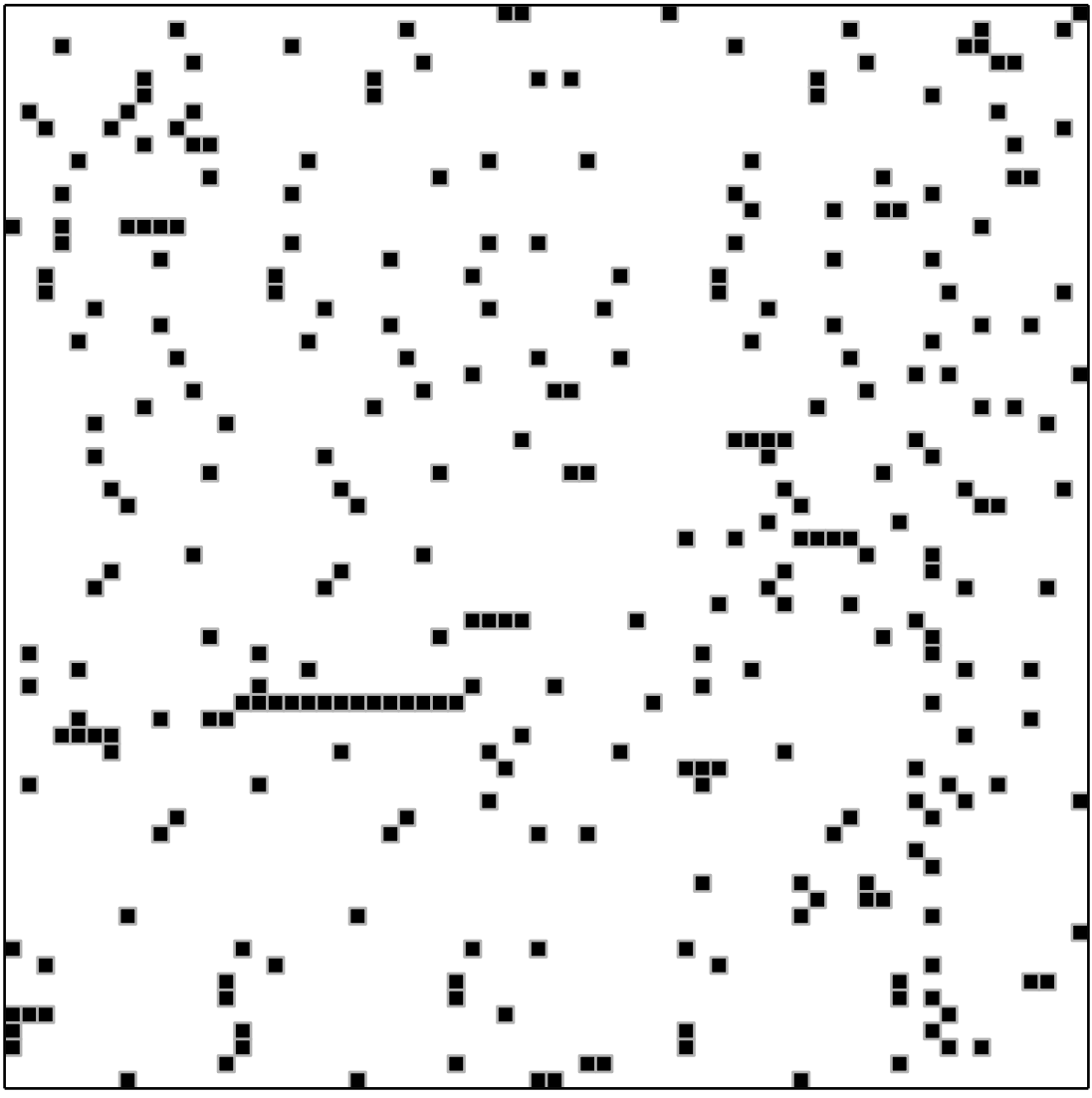

lib1_wall-IN, cost: 5, diff: 5, explored: 18, time: 0.00s

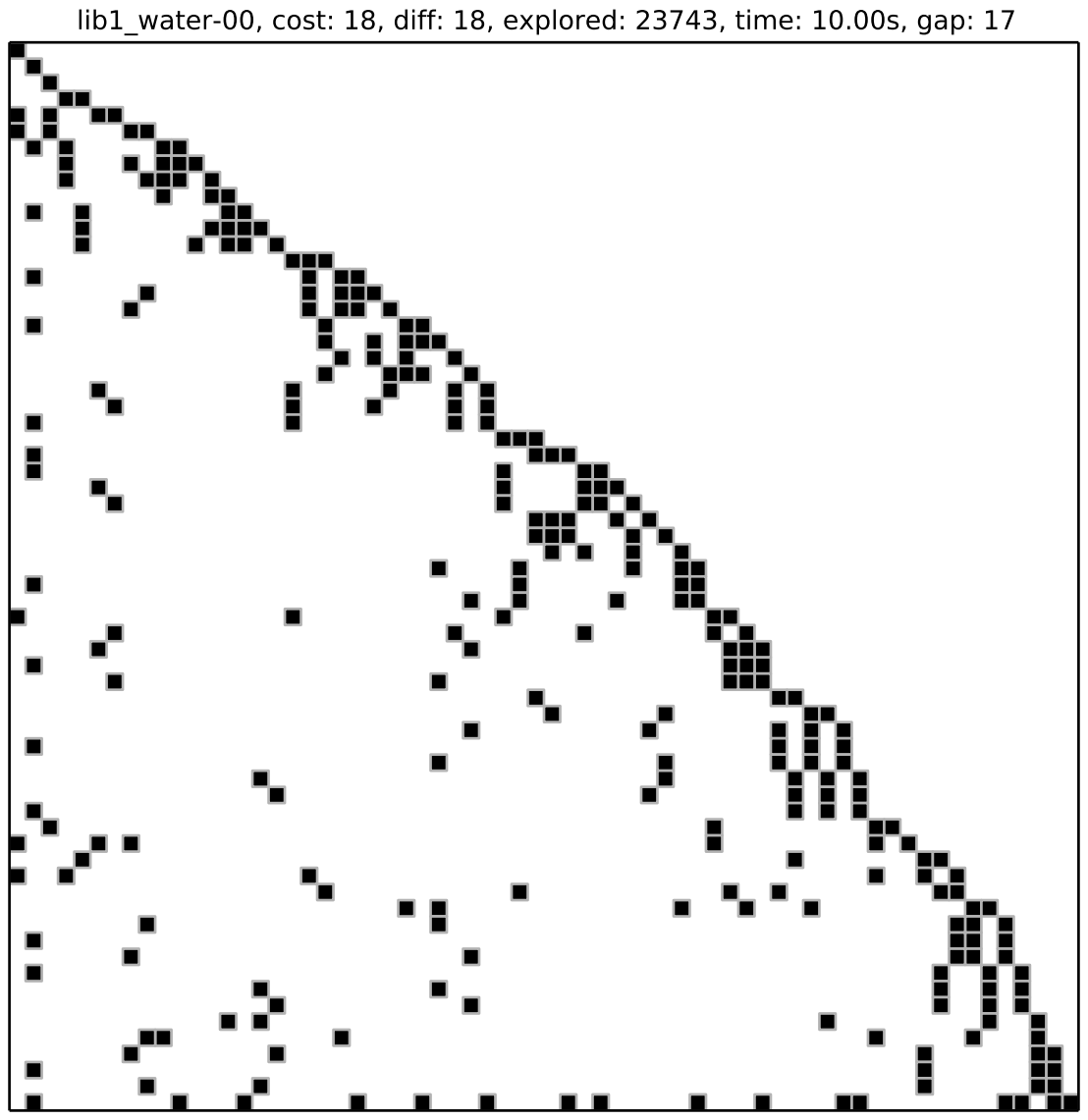
lib1_wall-RE 12x12 (68) con: 6, var: 6



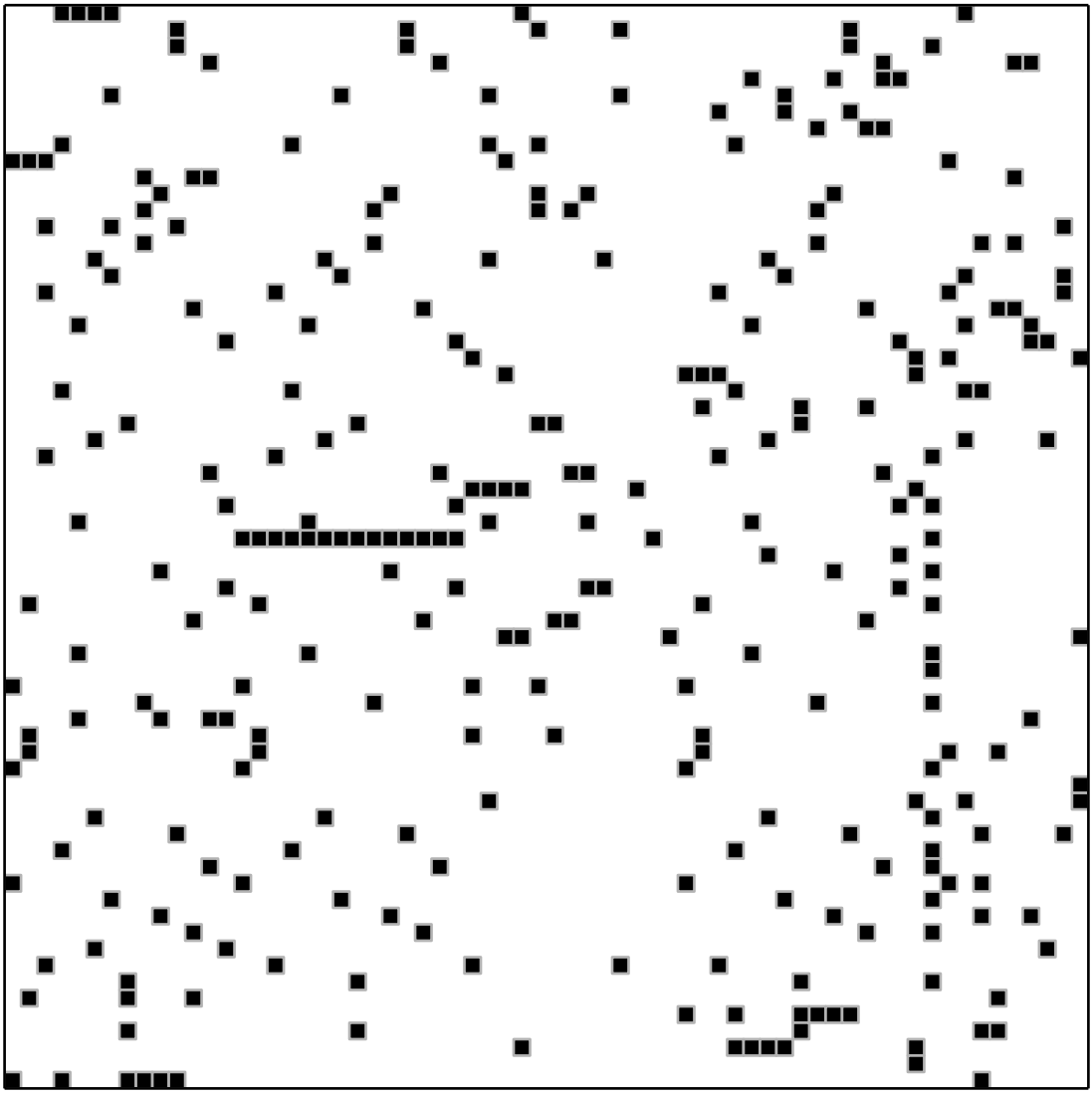

lib1_wall-RE, cost: 5, diff: 5, explored: 16, time: 0.00s

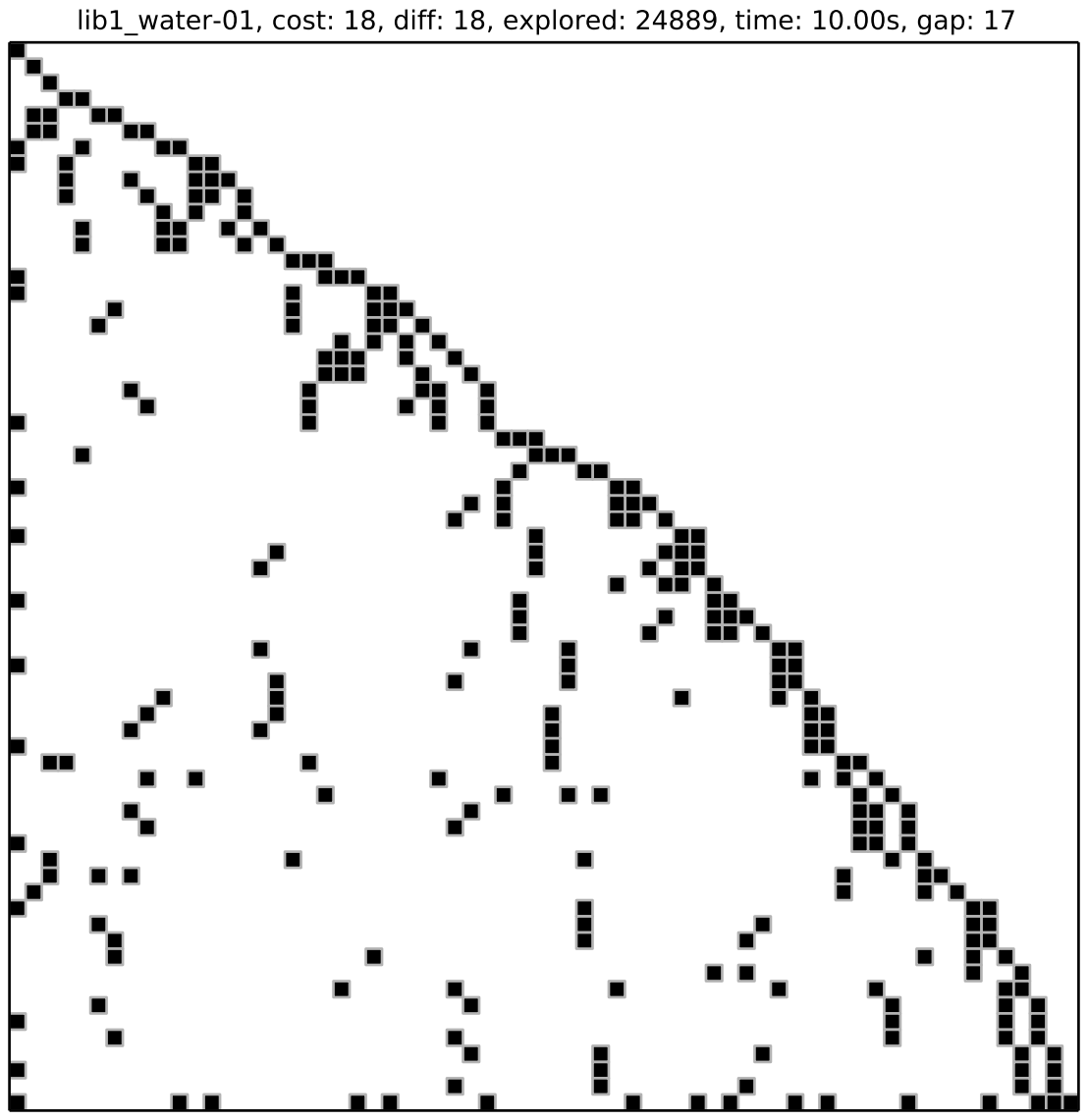
lib1_water-00 66x66 (303) con: 25, var: 41



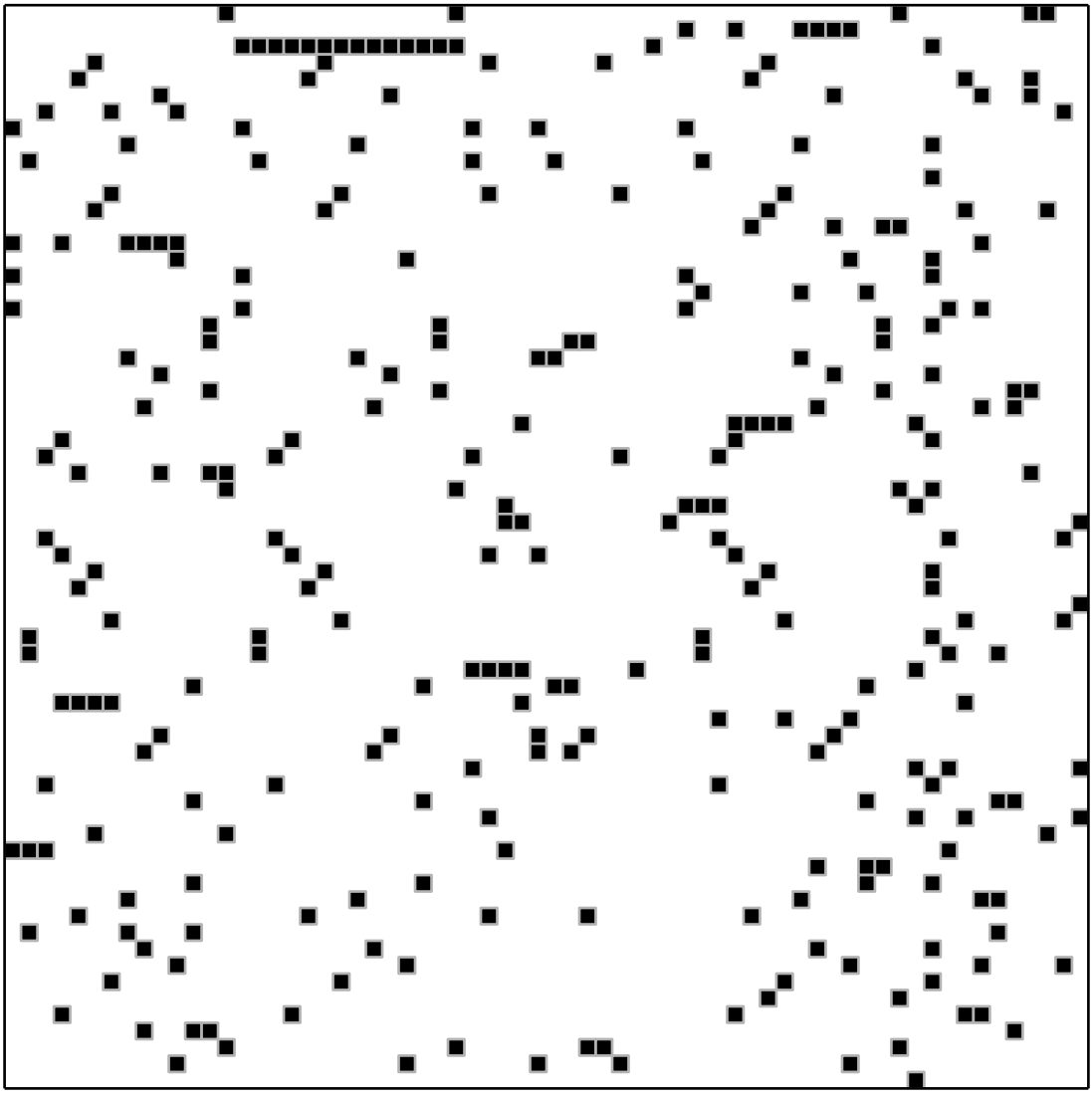

lib1_water-00, cost: 18, diff: 18, explored: 23743, time: 10.00s, gap: 17

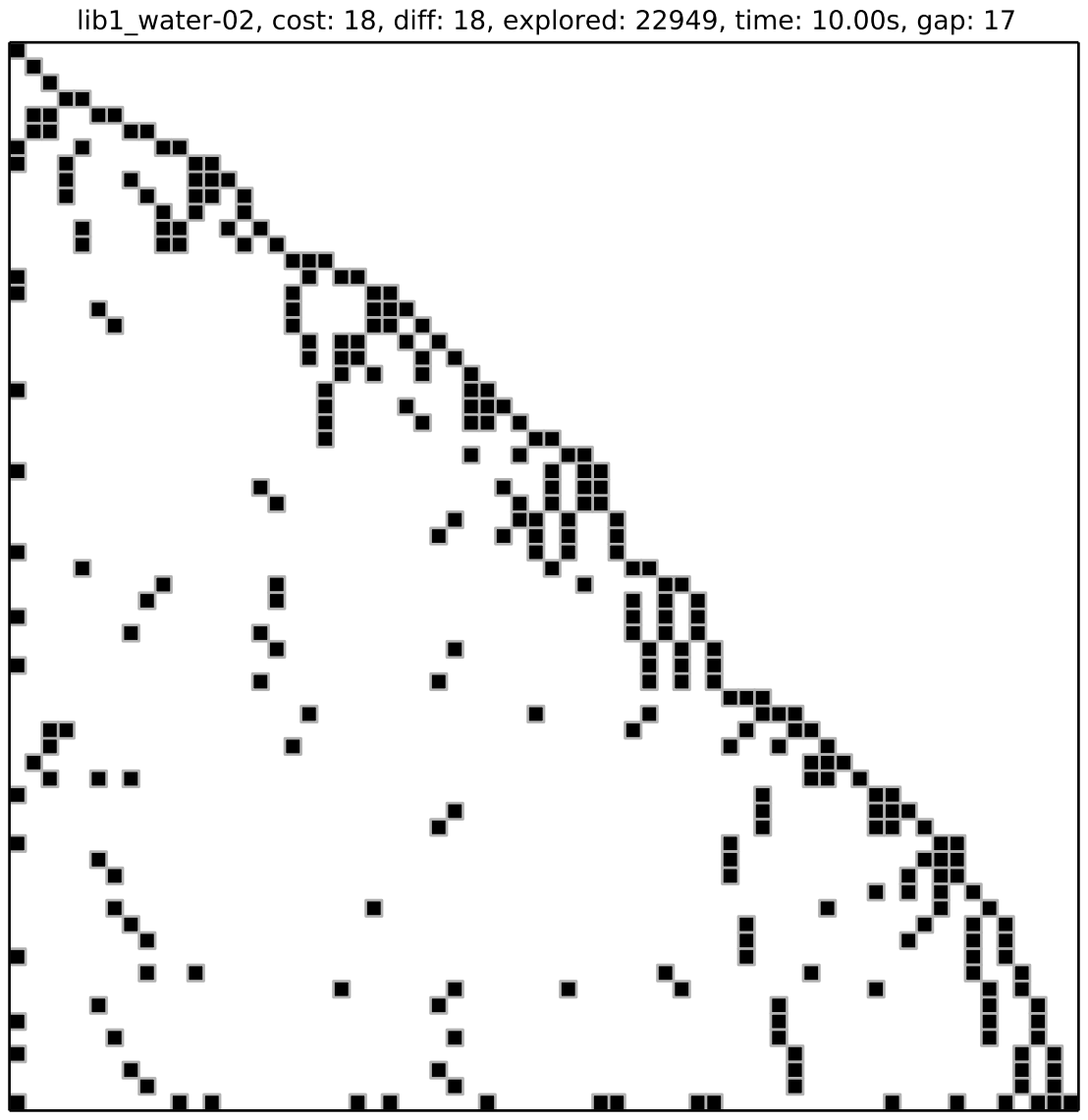
lib1_water-01 66x66 (303) con: 25, var: 41

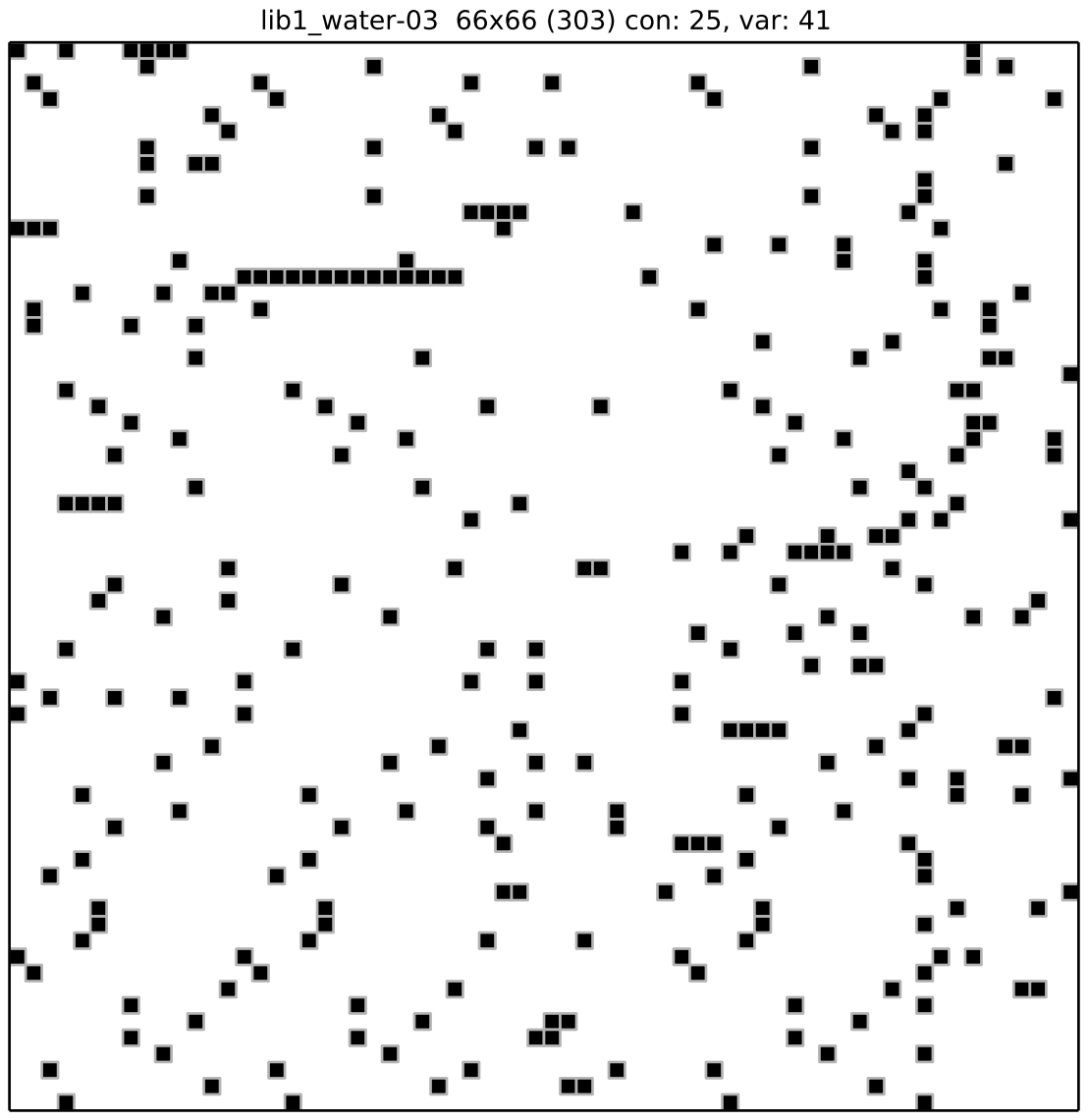


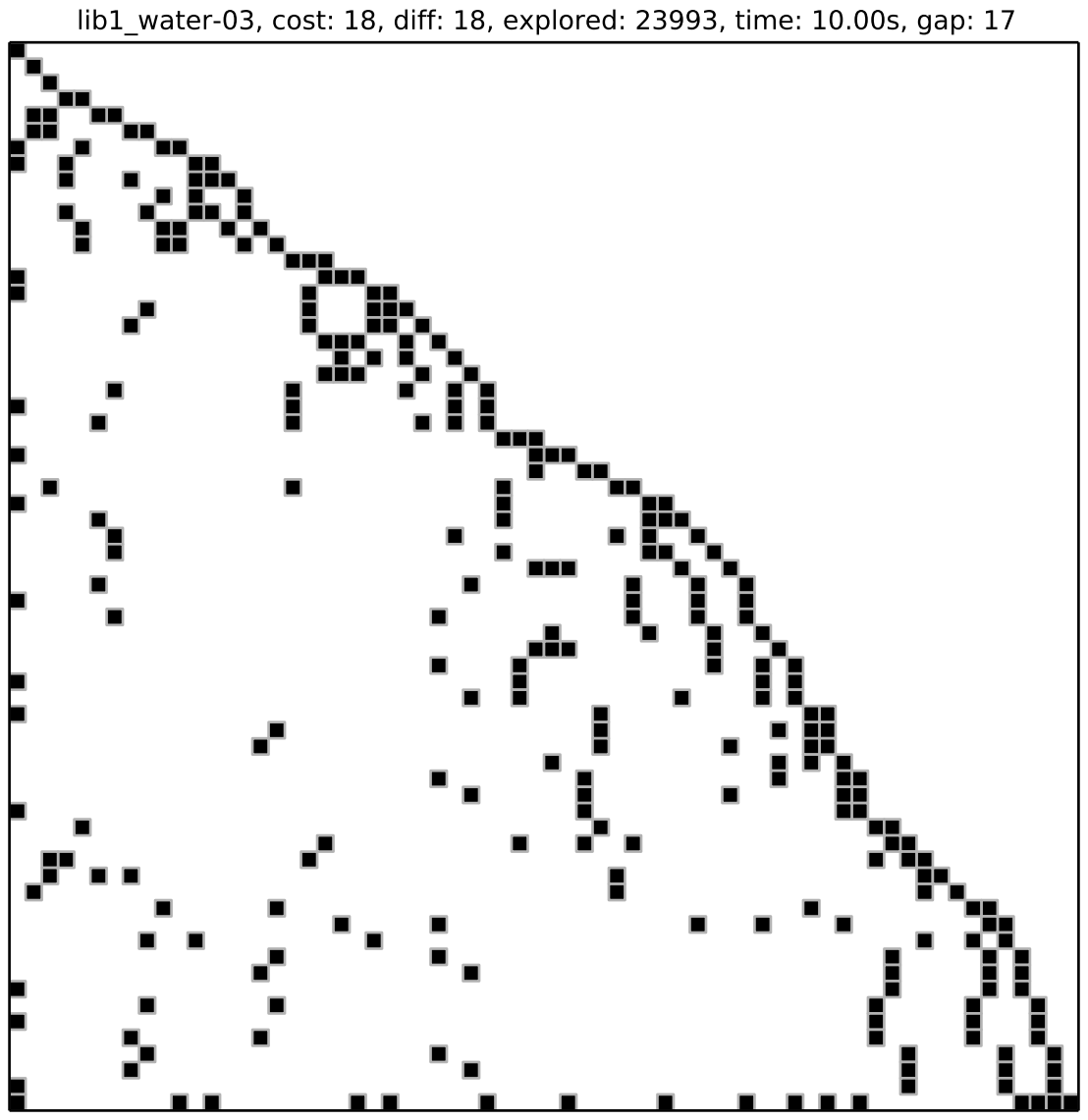

lib1_water-01, cost: 18, diff: 18, explored: 24889, time: 10.00s, gap: 17

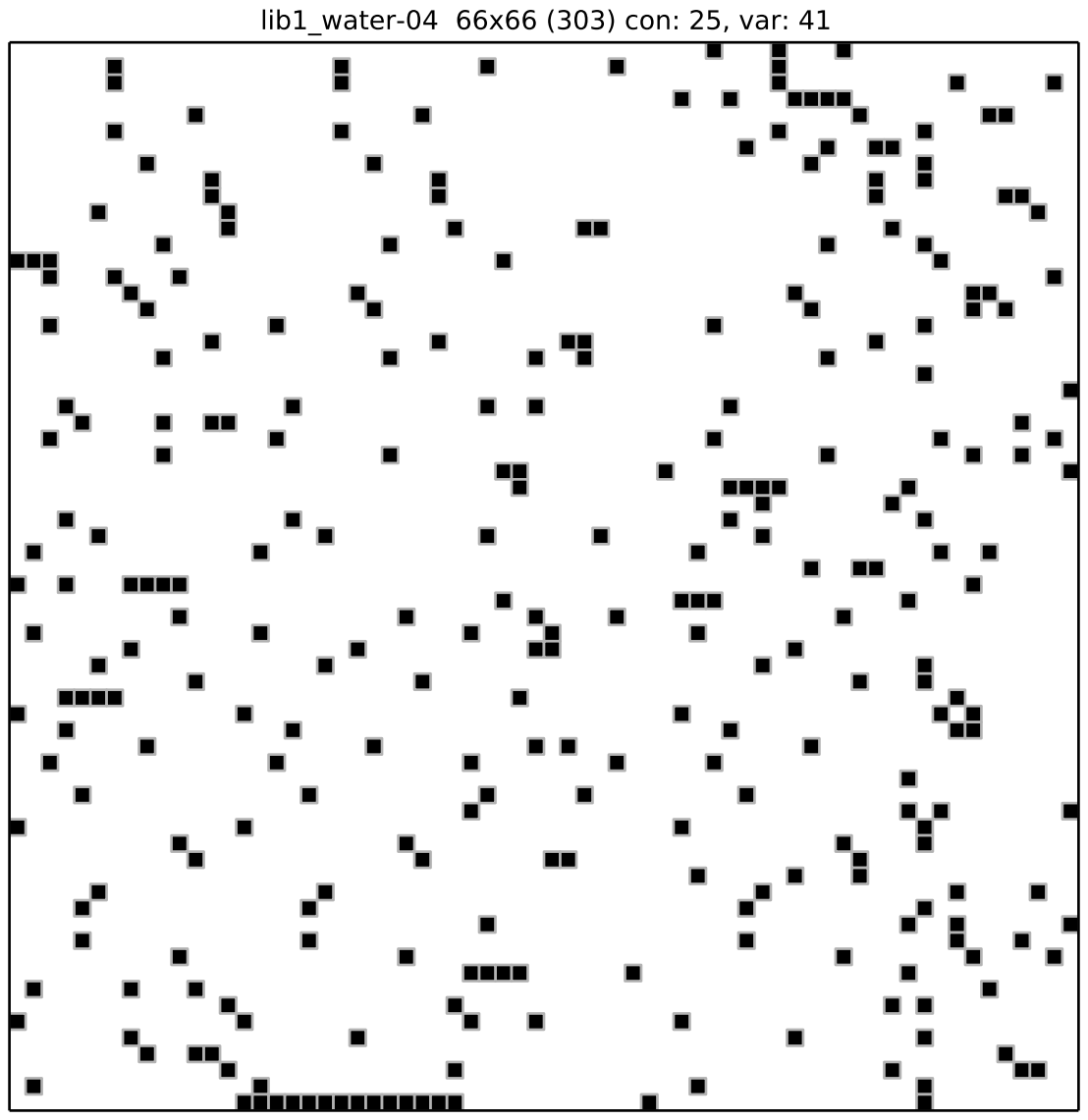
lib1_water-02 66x66 (303) con: 25, var: 41

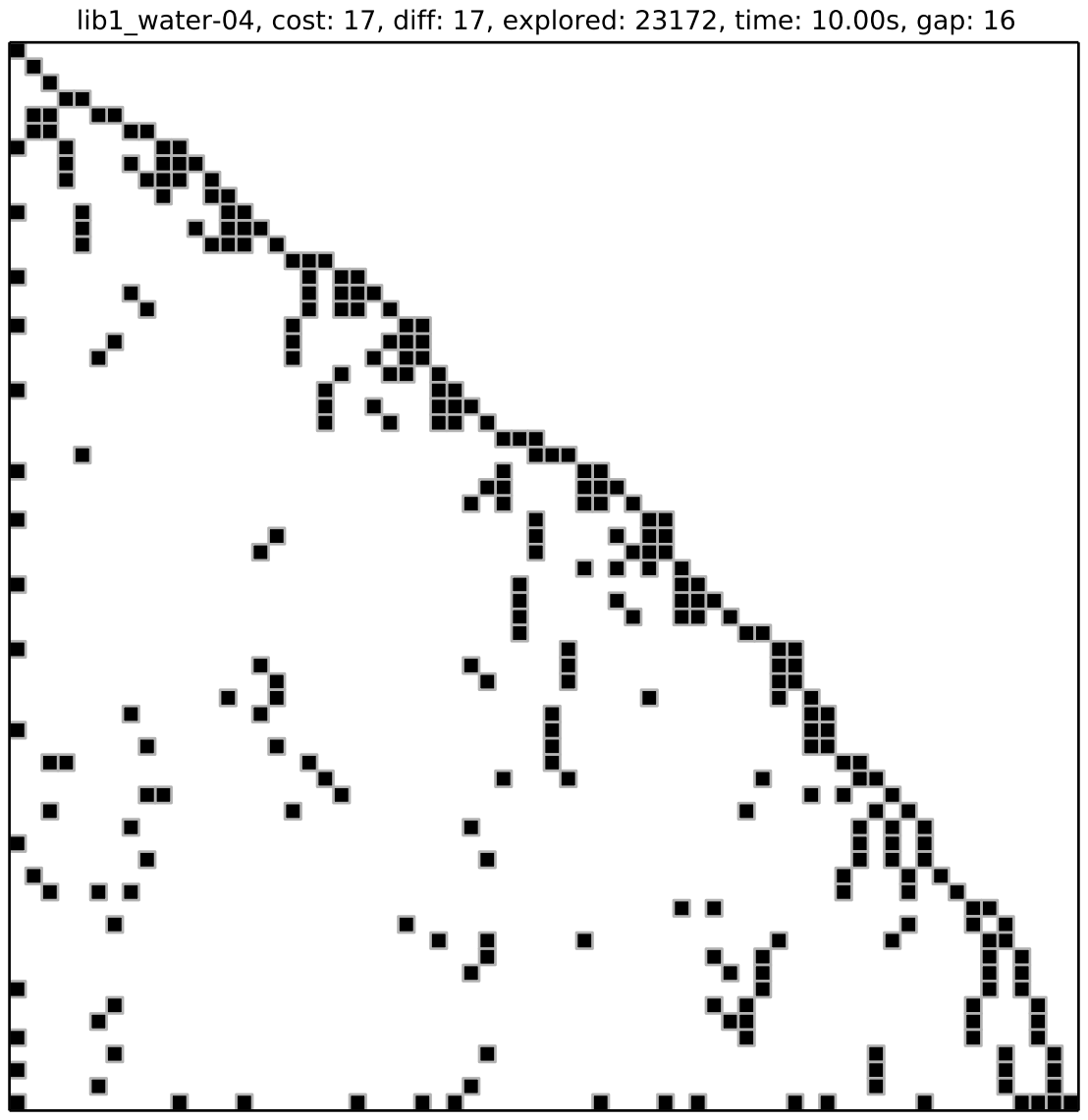



lib1_water-02, cost: 18, diff: 18, explored: 22949, time: 10.00s, gap: 17

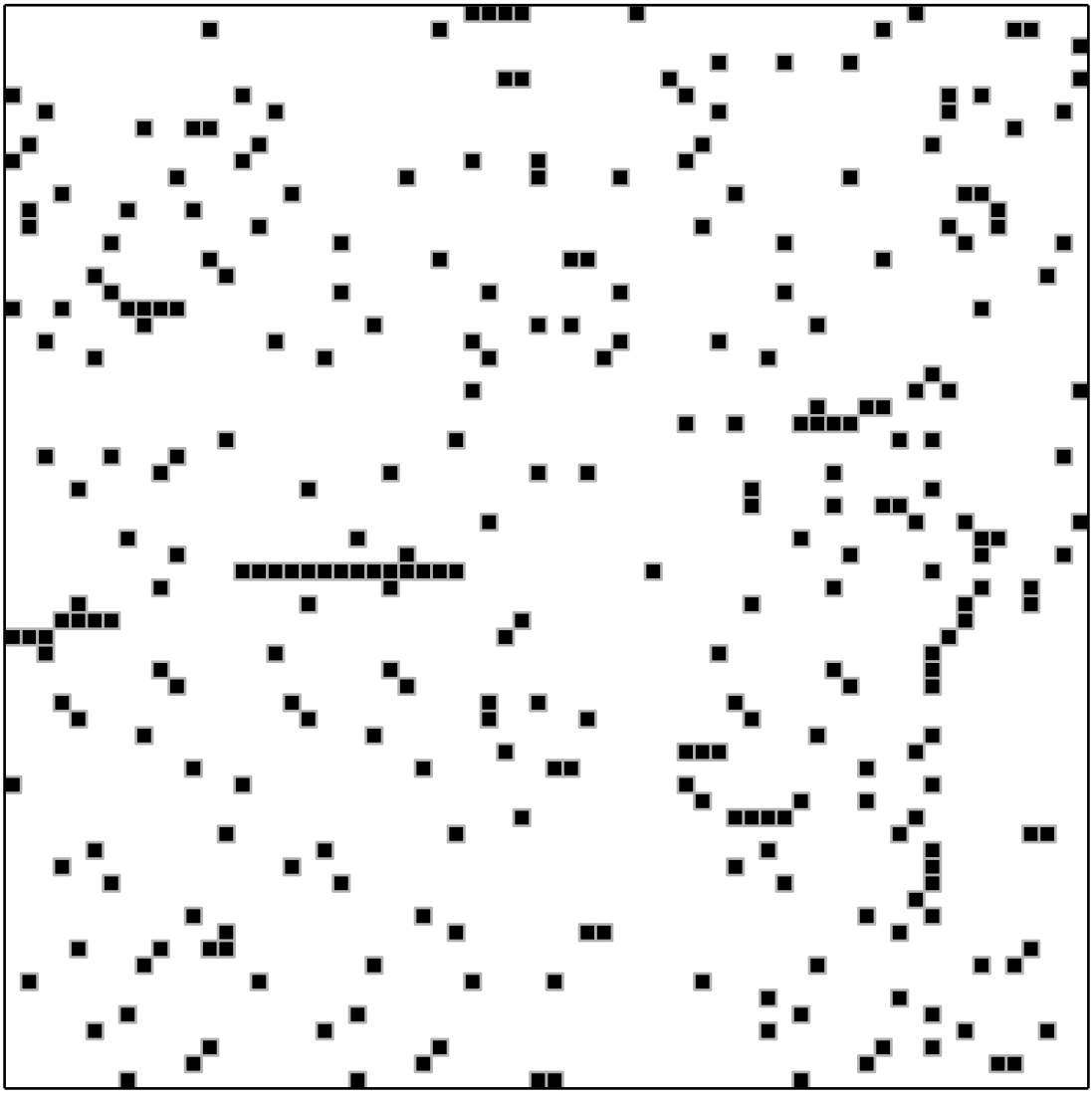

lib1_water-03 66x66 (303) con: 25, var: 41

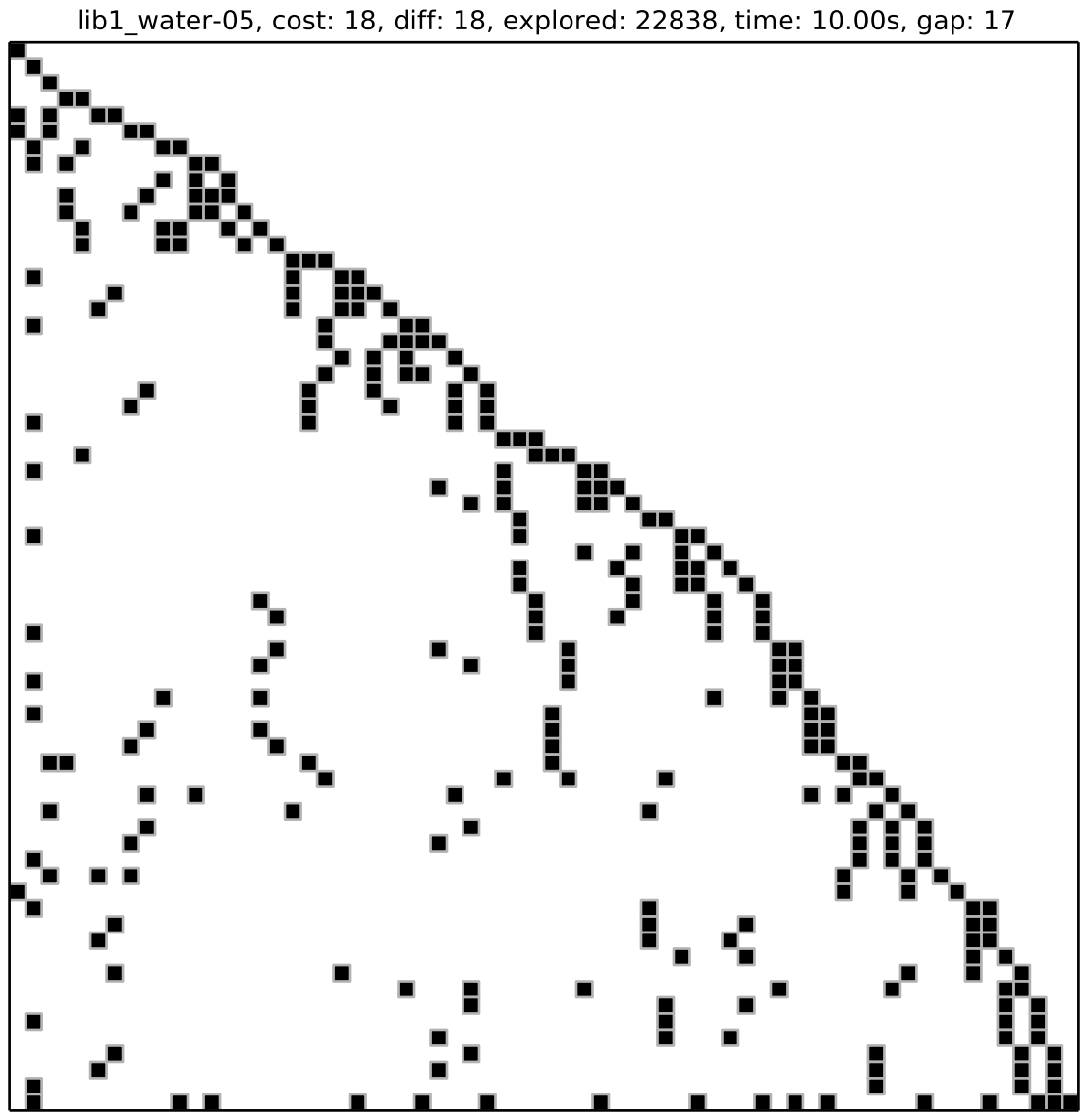

lib1_water-03, cost: 18, diff: 18, explored: 23993, time: 10.00s, gap: 17


lib1_water-04 66x66 (303) con: 25, var: 41

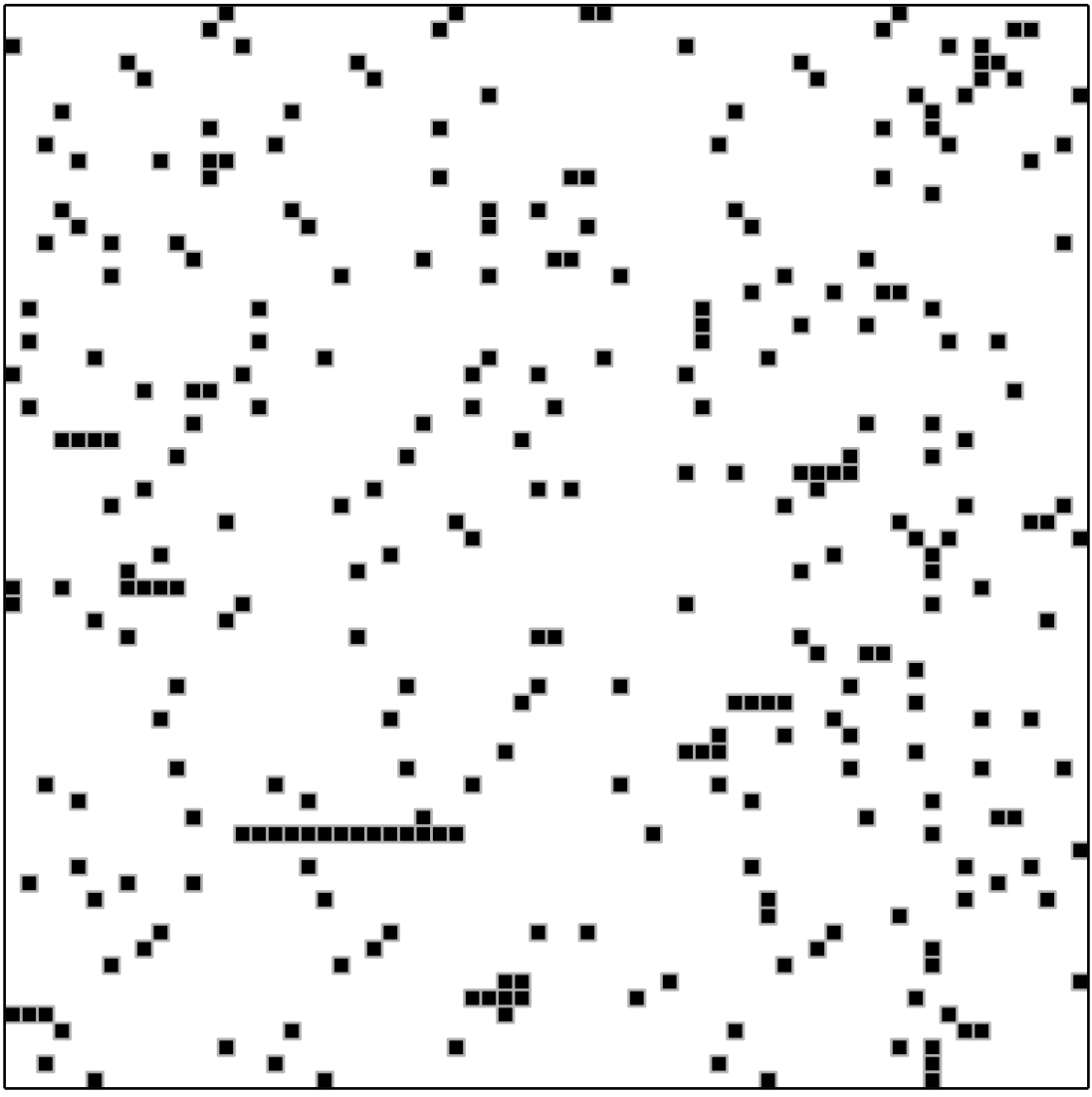

lib1_water-04, cost: 17, diff: 17, explored: 23172, time: 10.00s, gap: 16

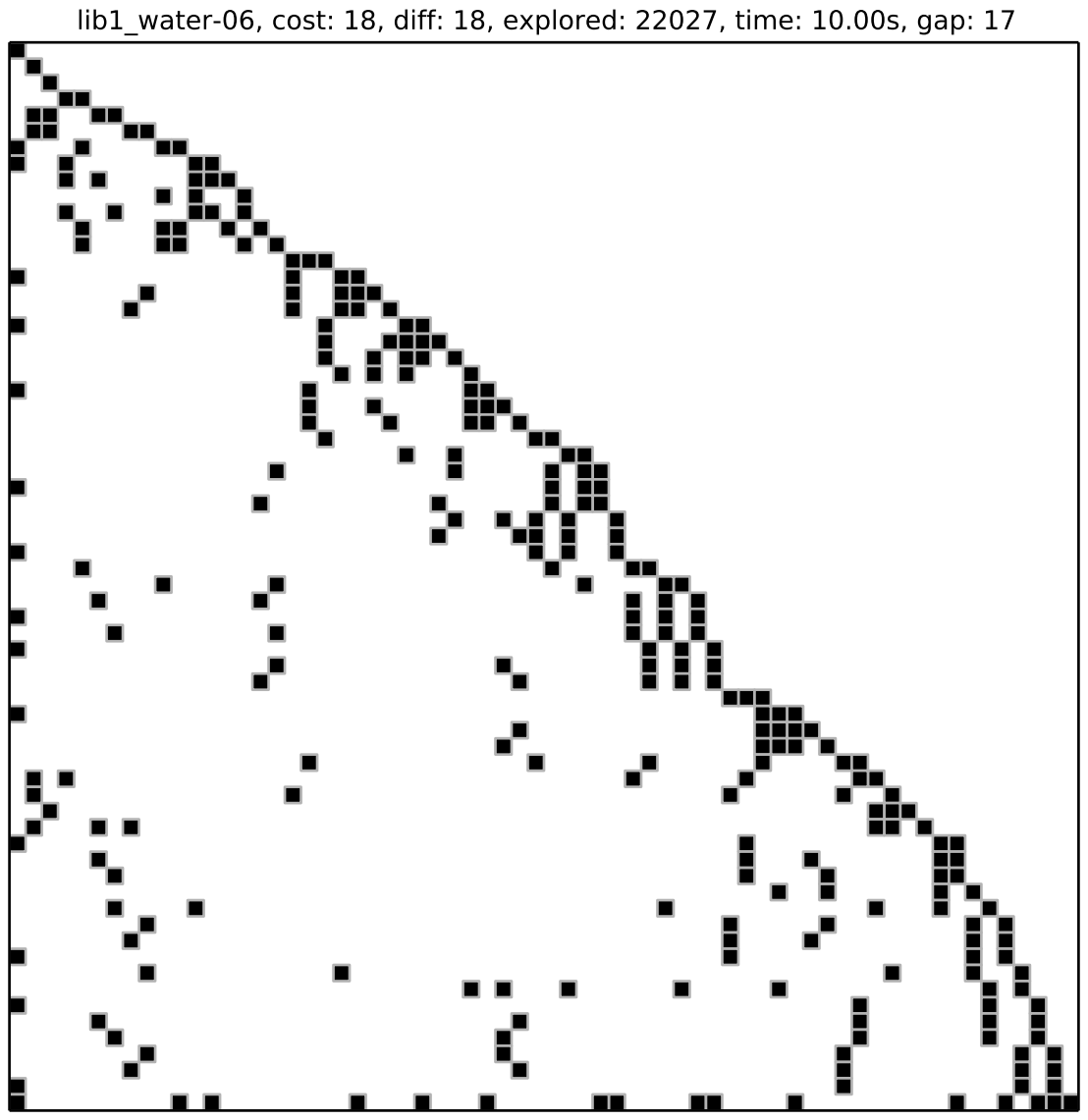
lib1_water-05 66x66 (303) con: 25, var: 41

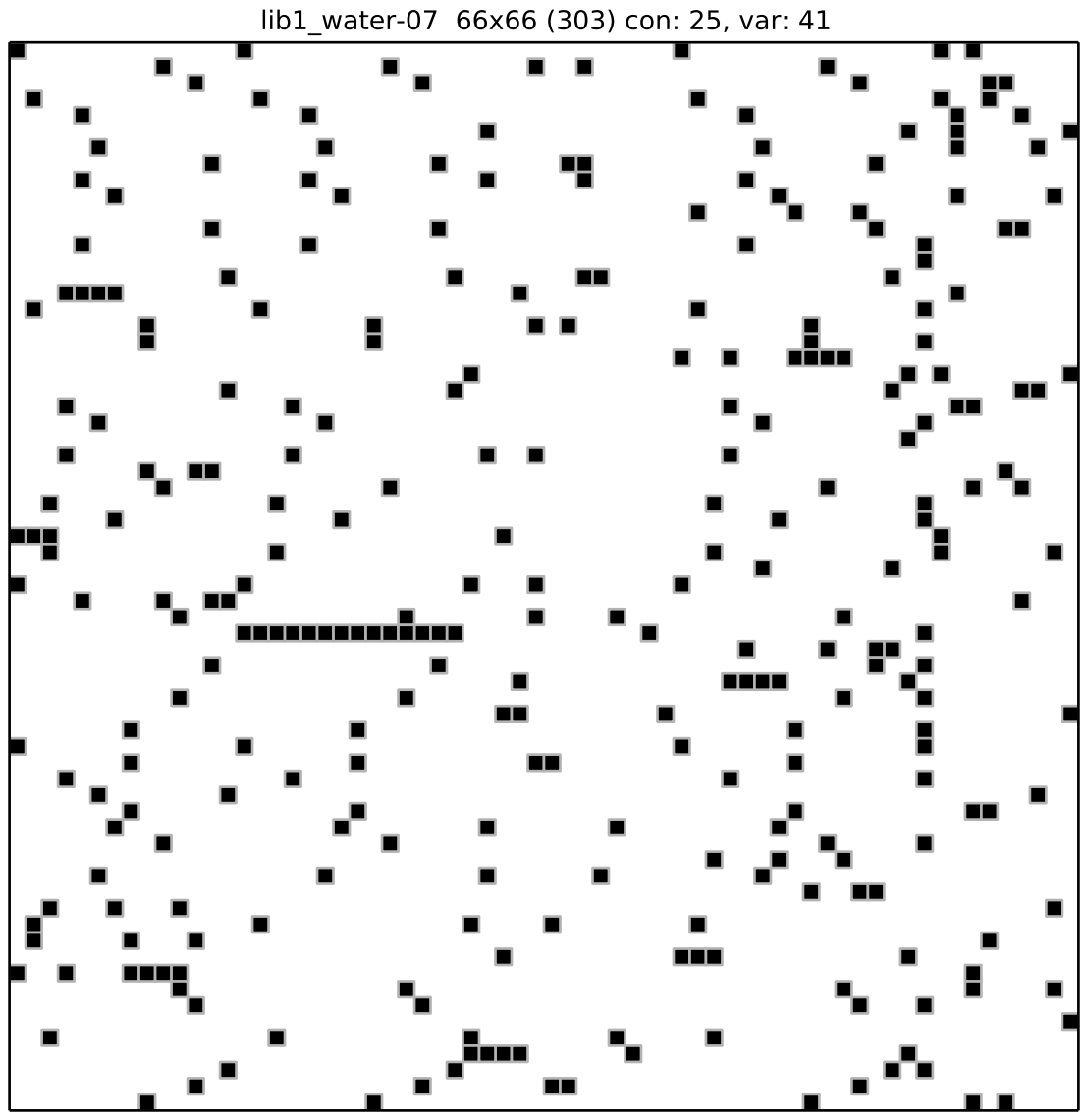


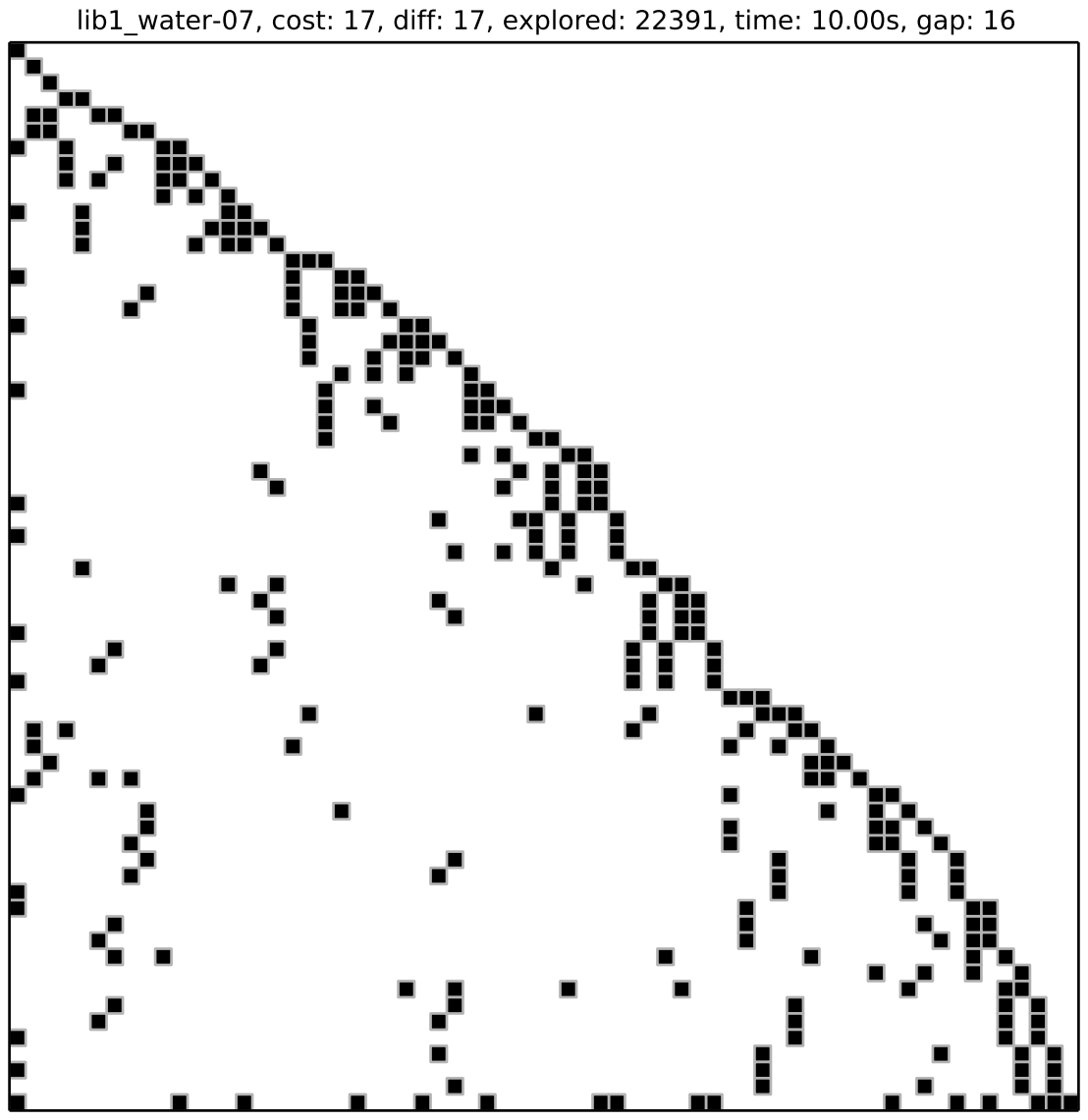

lib1_water-05, cost: 18, diff: 18, explored: 22838, time: 10.00s, gap: 17

lib1_water-06 66x66 (303) con: 25, var: 41

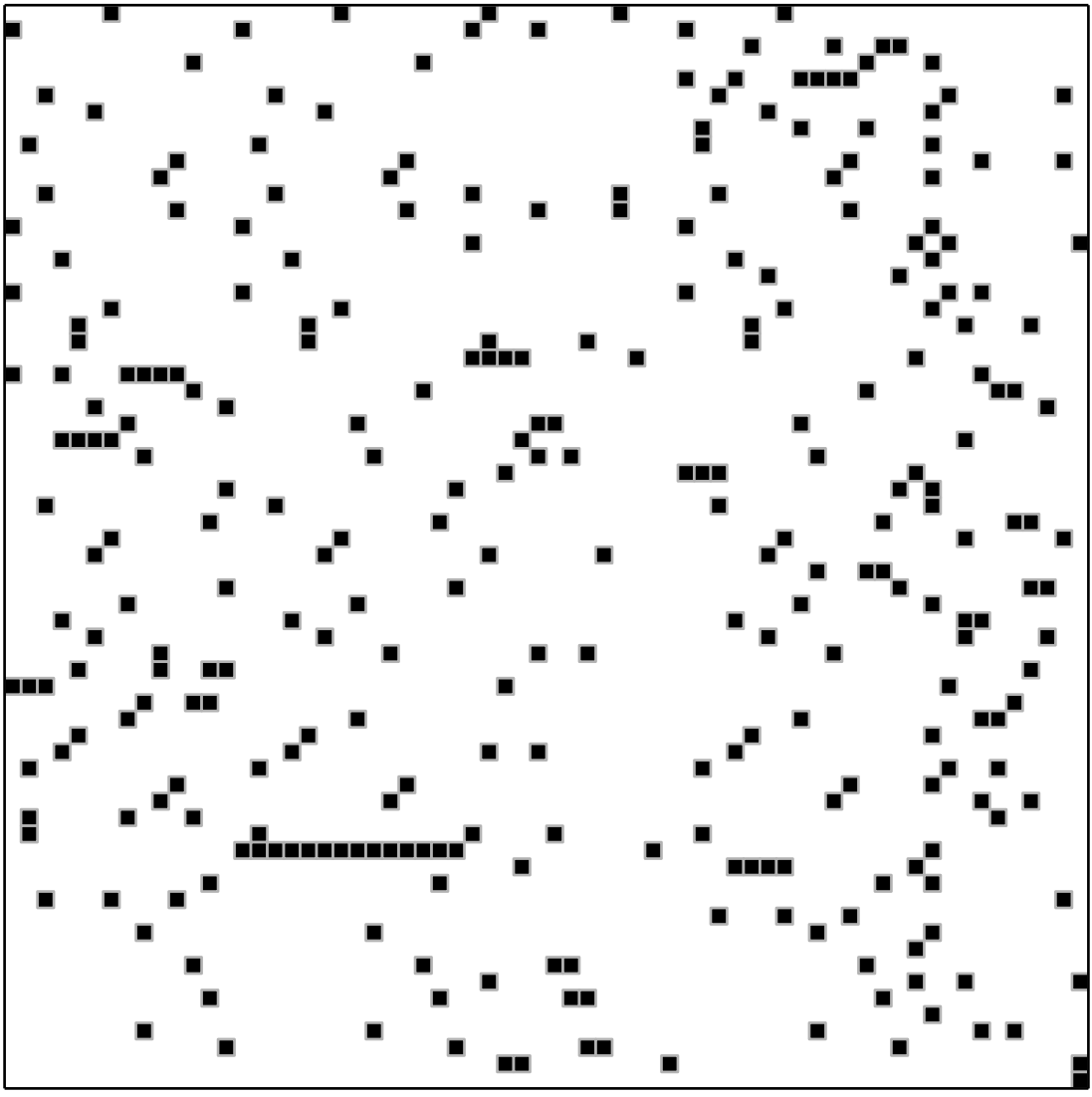


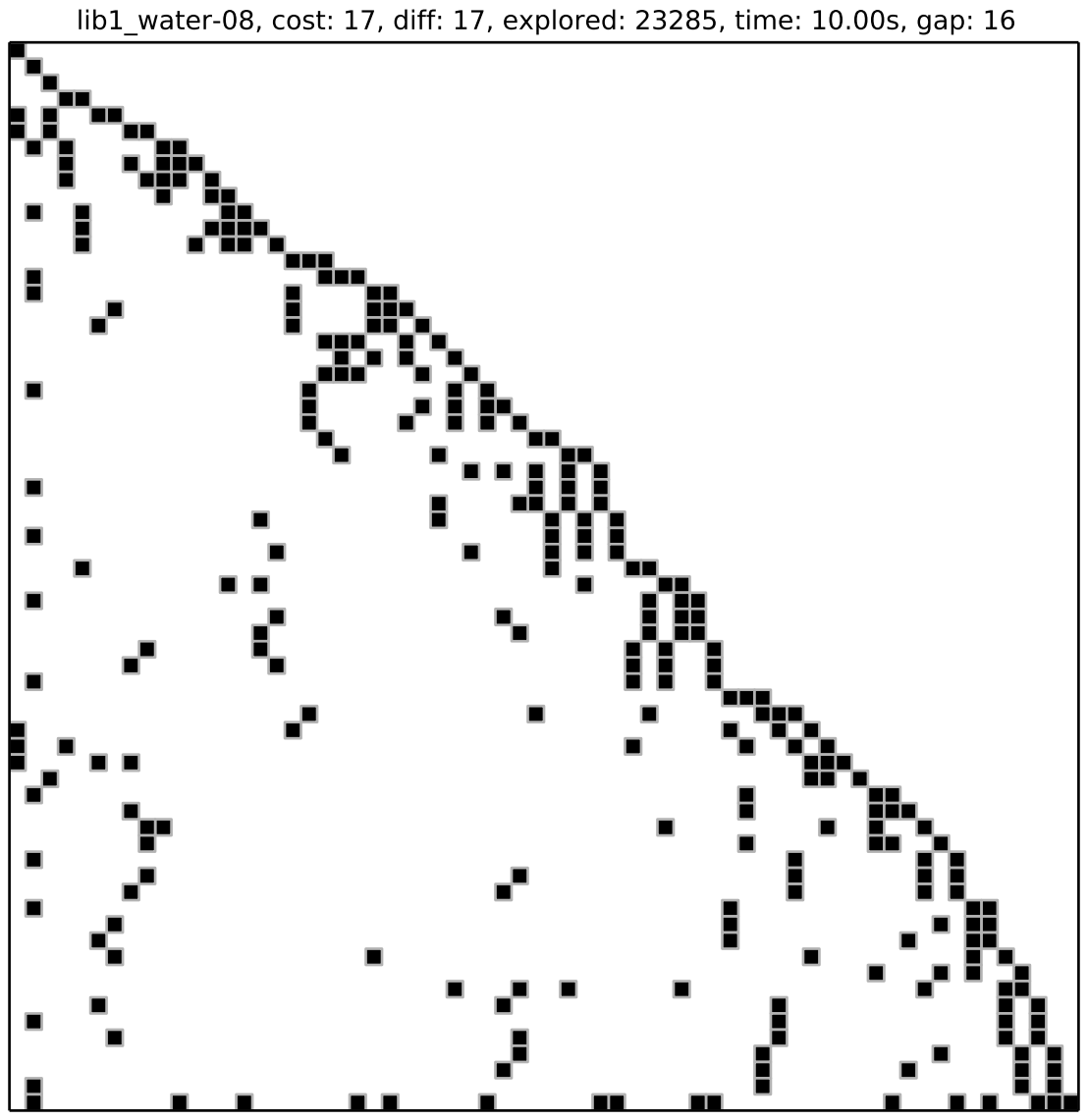

lib1_water-06, cost: 18, diff: 18, explored: 22027, time: 10.00s, gap: 17


lib1_water-07 66x66 (303) con: 25, var: 41

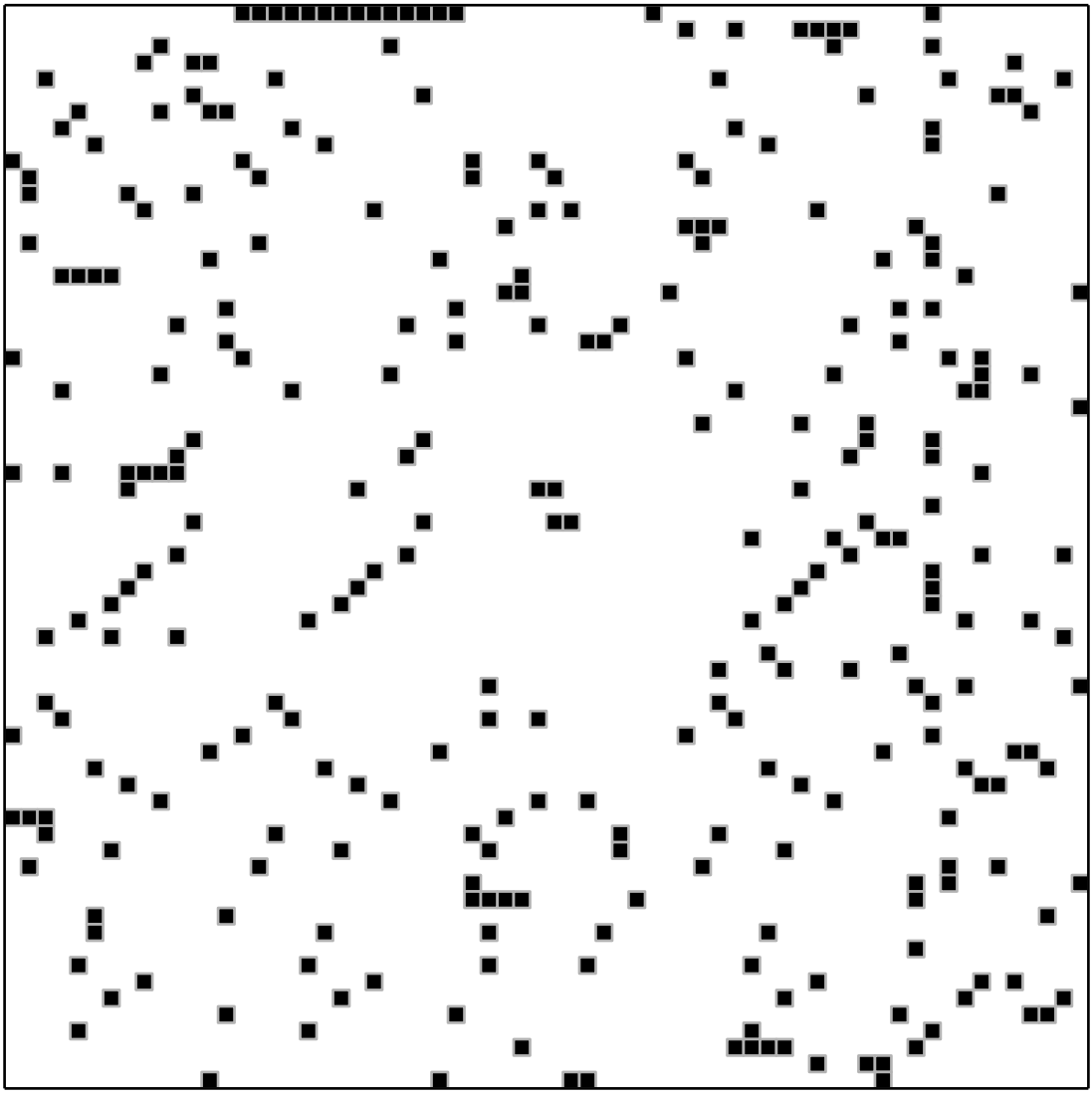

lib1_water-07, cost: 17, diff: 17, explored: 22391, time: 10.00s, gap: 16

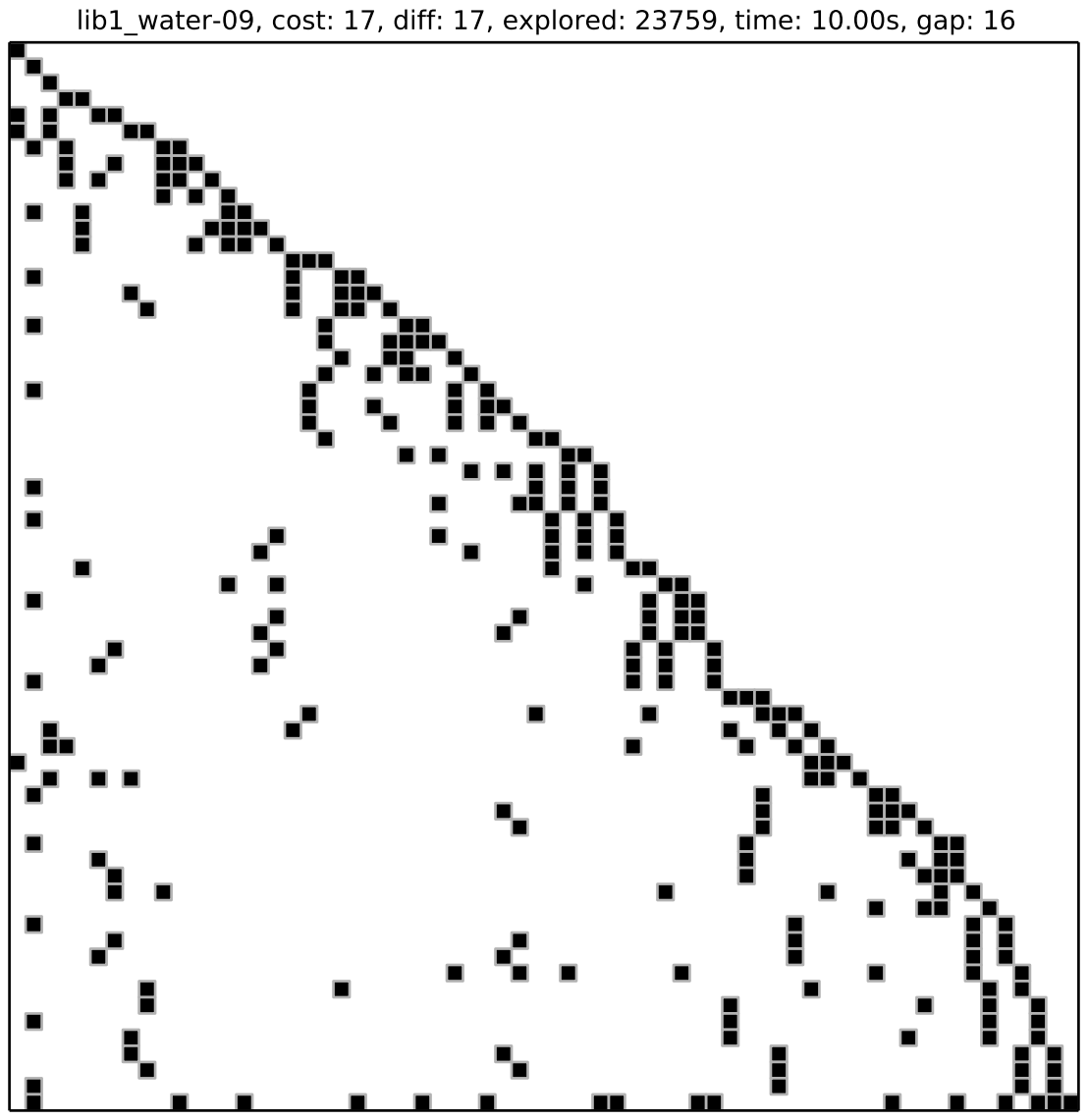
lib1_water-08 66x66 (303) con: 25, var: 41




lib1_water-08, cost: 17, diff: 17, explored: 23285, time: 10.00s, gap: 16

lib1_water-09 66x66 (303) con: 25, var: 41

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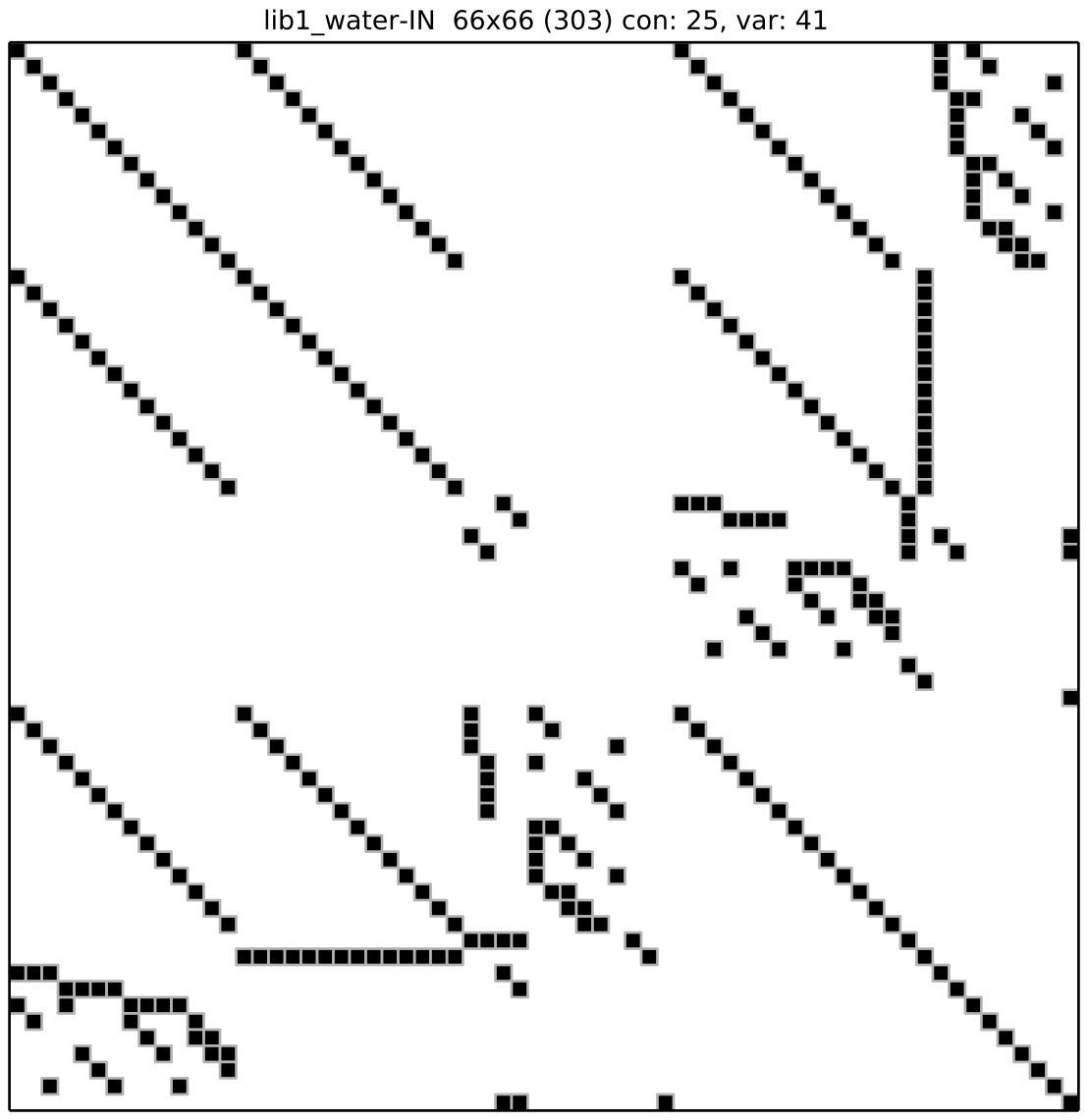
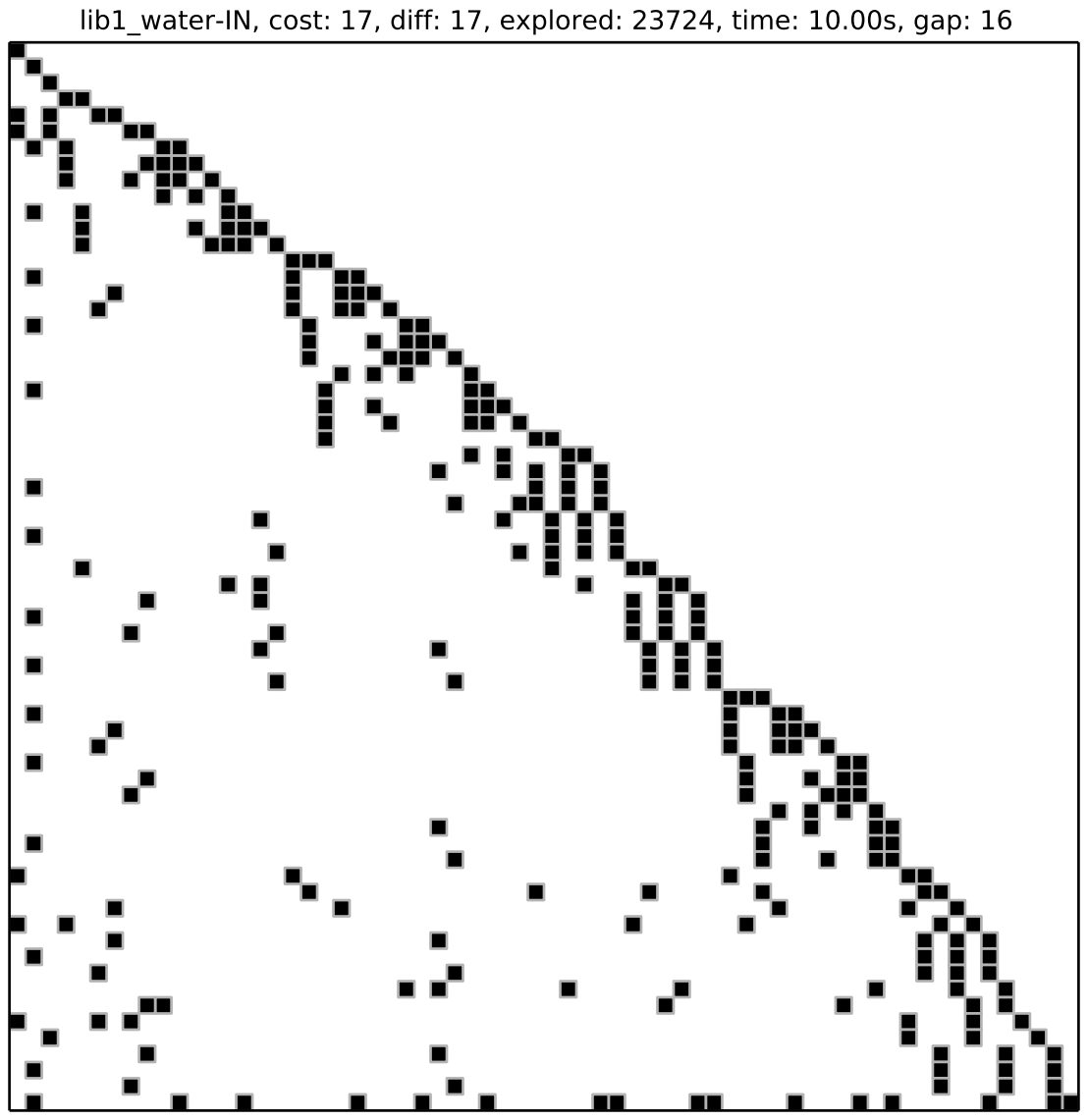

lib1_water-IN 66x66 (303) con: 25, var: 41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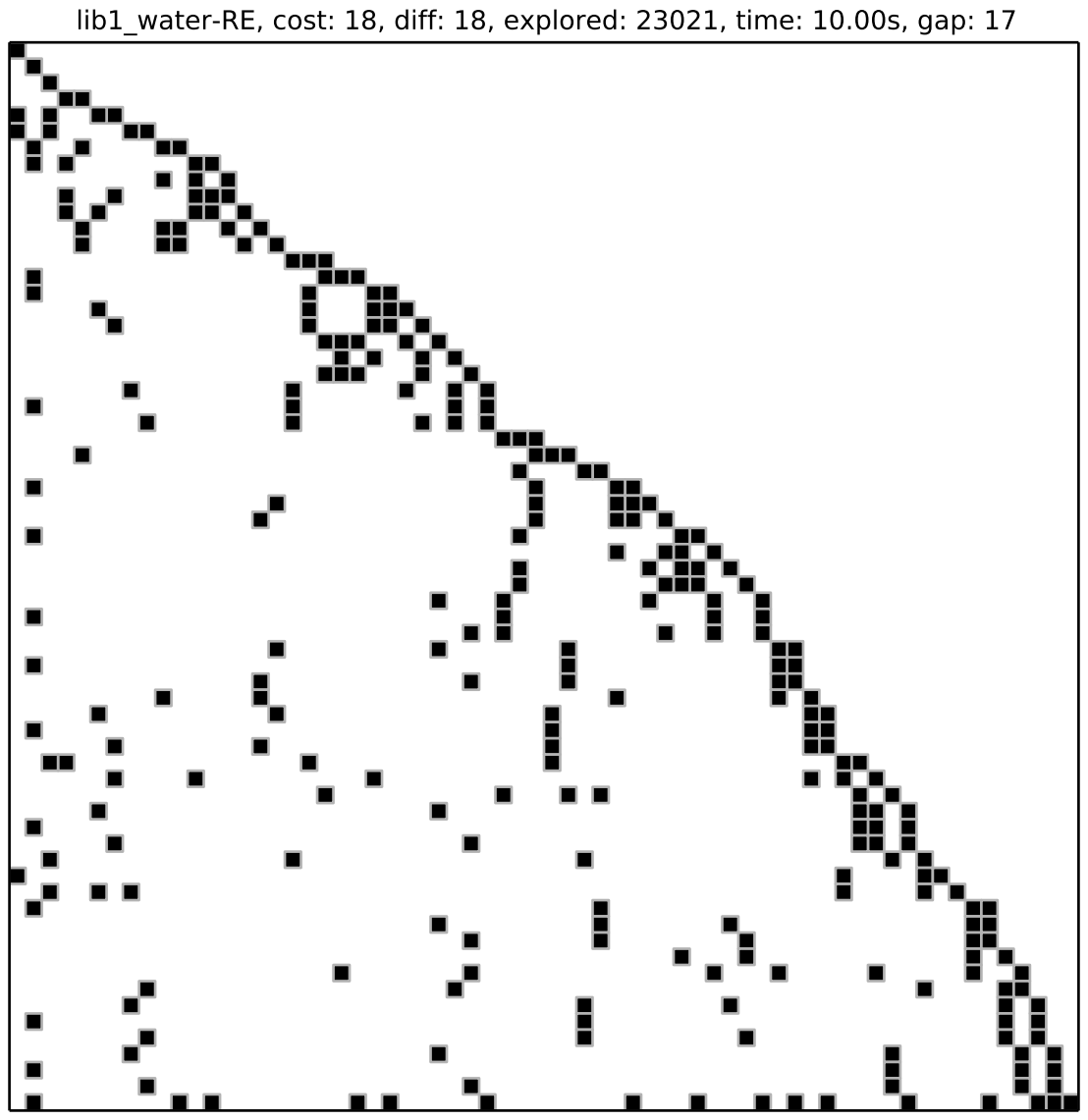
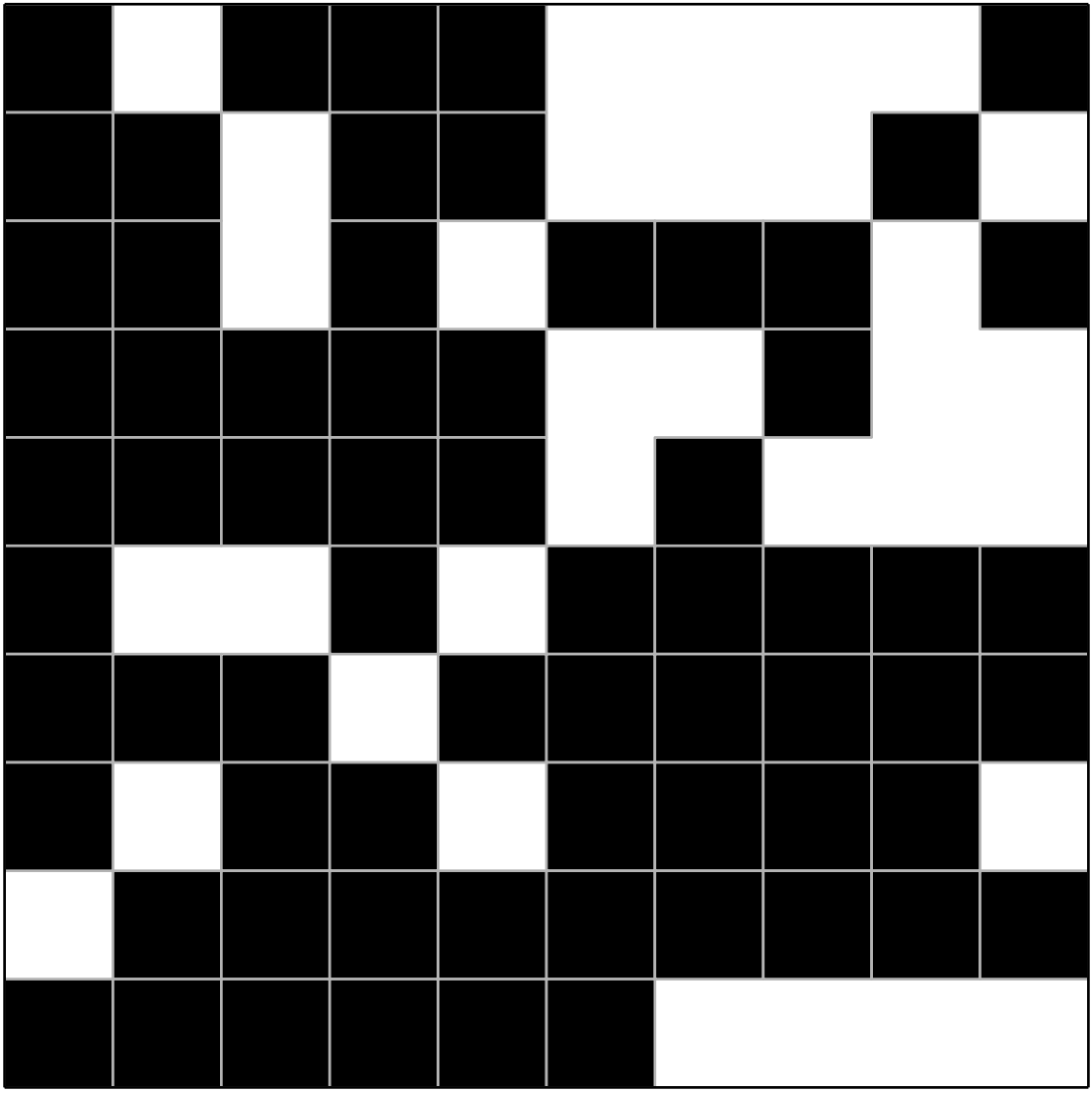
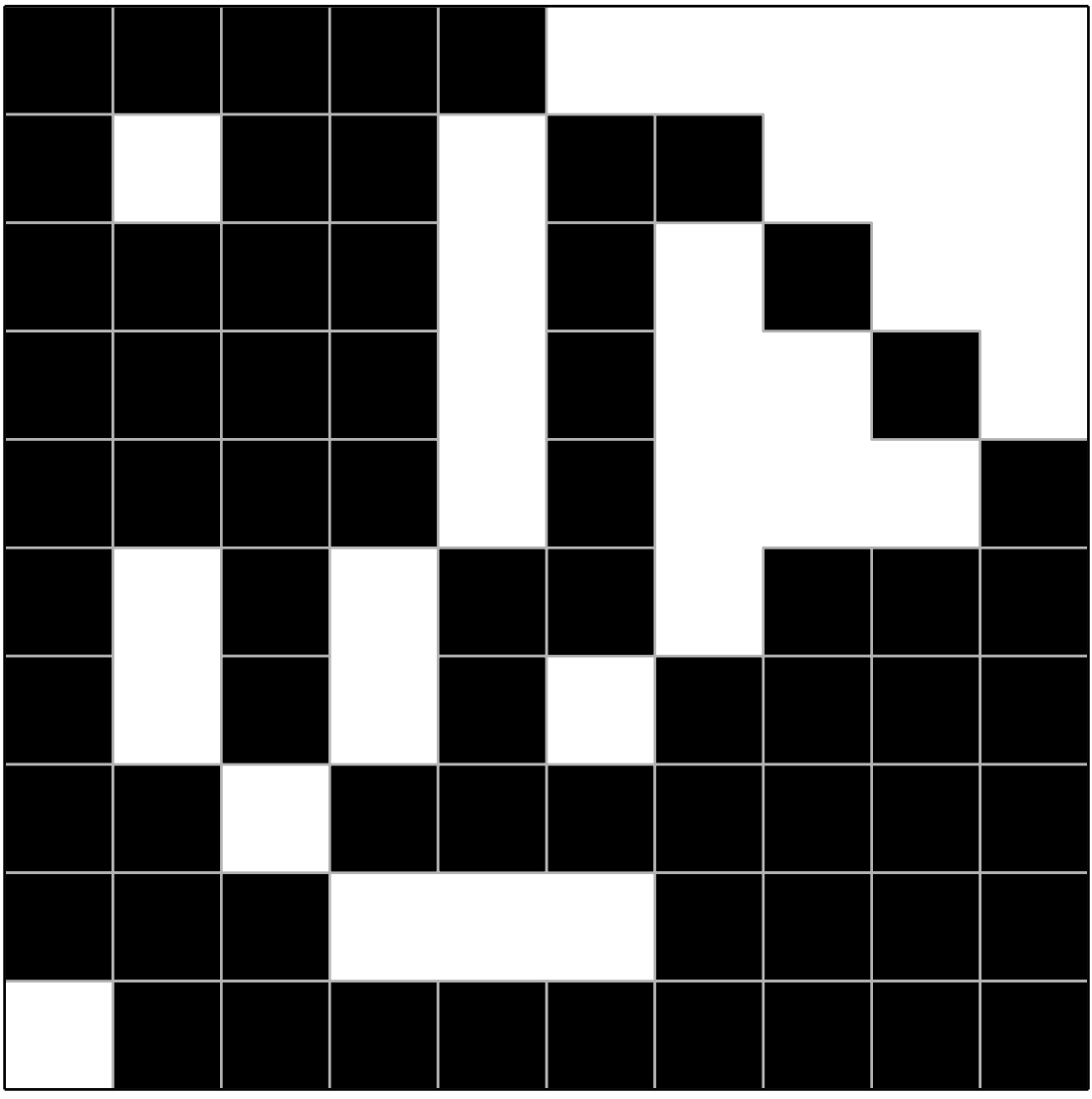
lib1_water-RE 66x66 (303) con: 25, var: 41


lib1_water-RE, cost: 18, diff: 18, explored: 23021, time: 10.00s, gap: 17

lib2_aircrfta-00 10x10 (67) con: 5, var: 5

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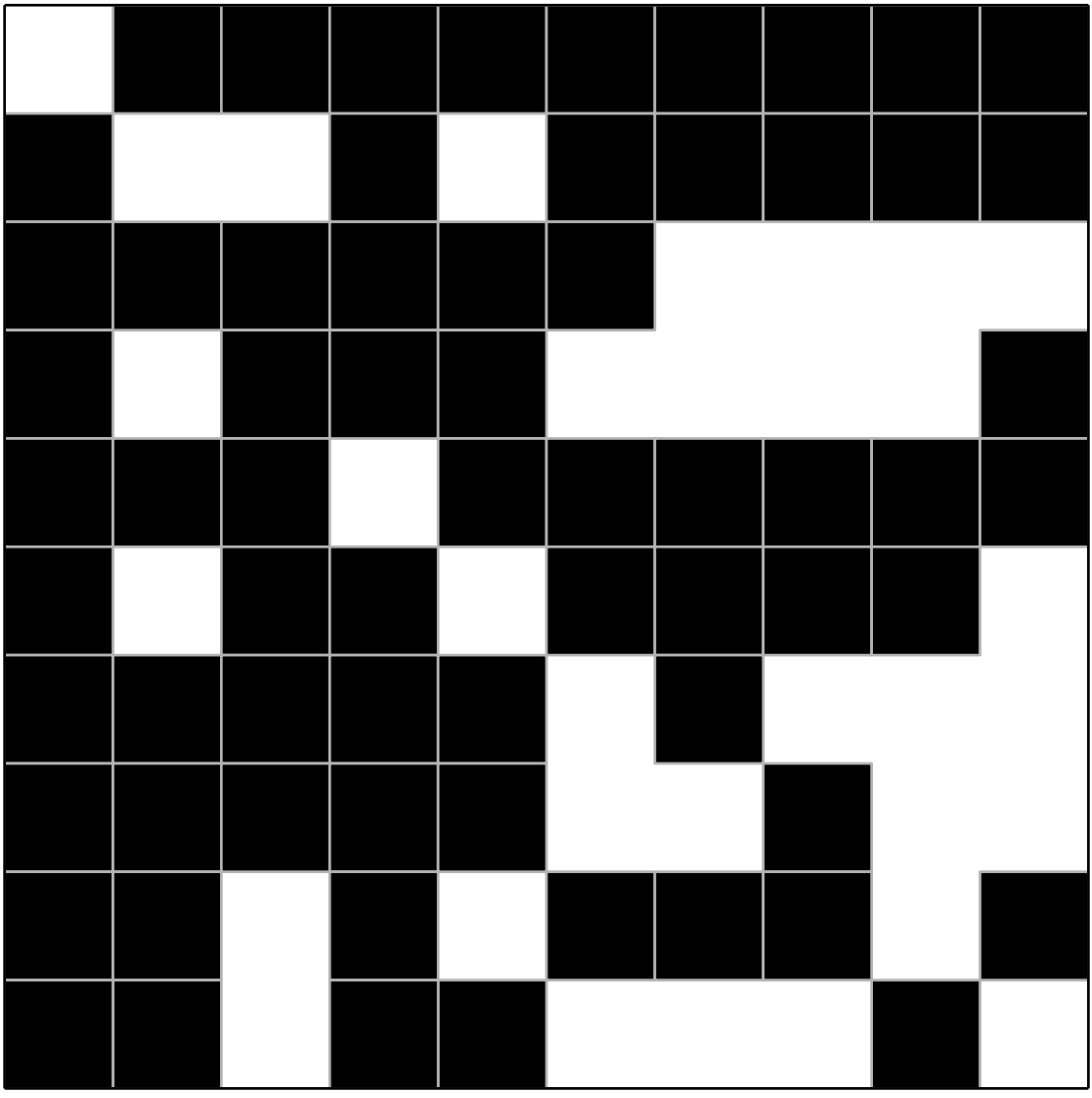
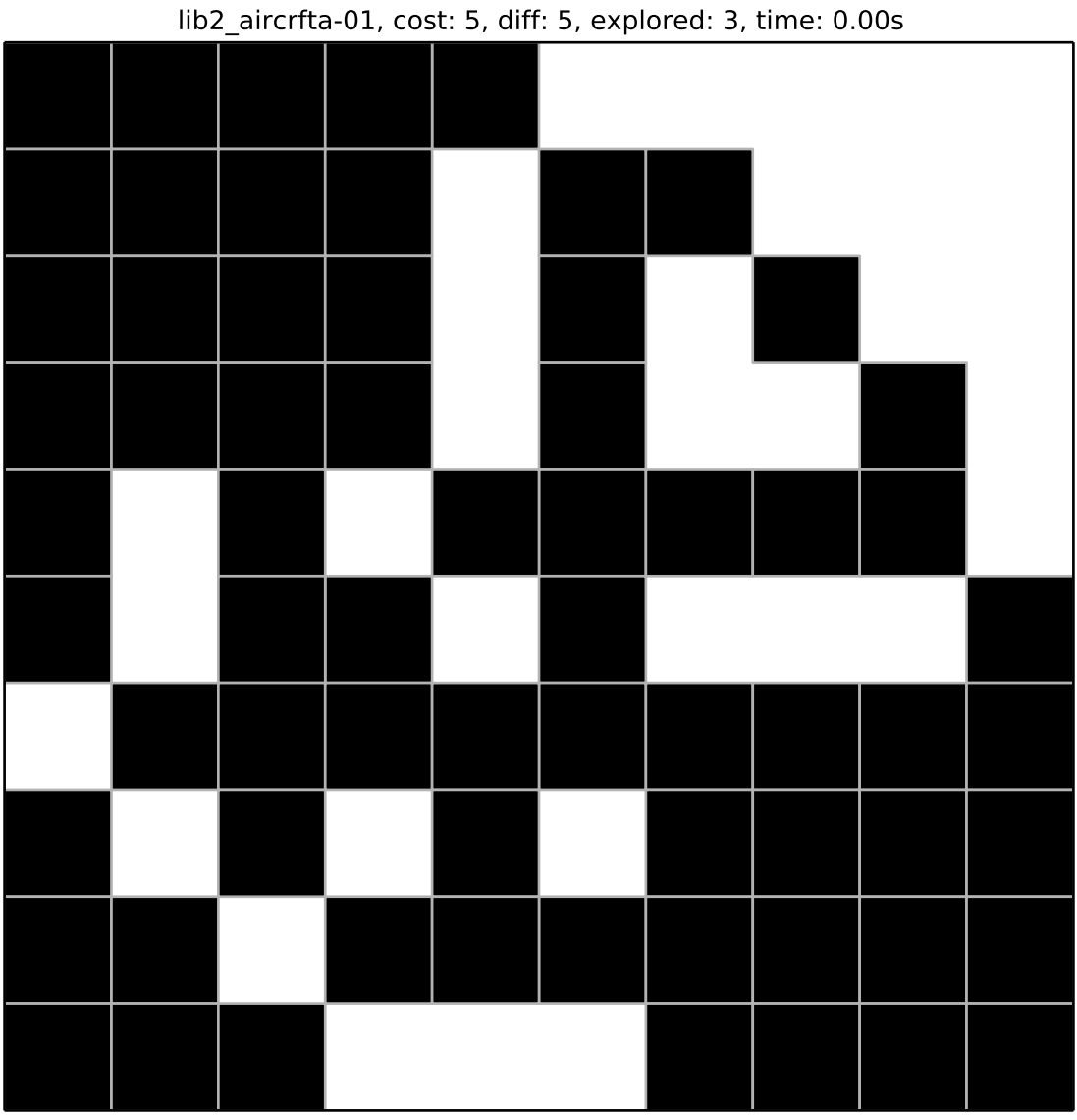
lib2_aircrfta-01 10x10 (67) con: 5, var: 5

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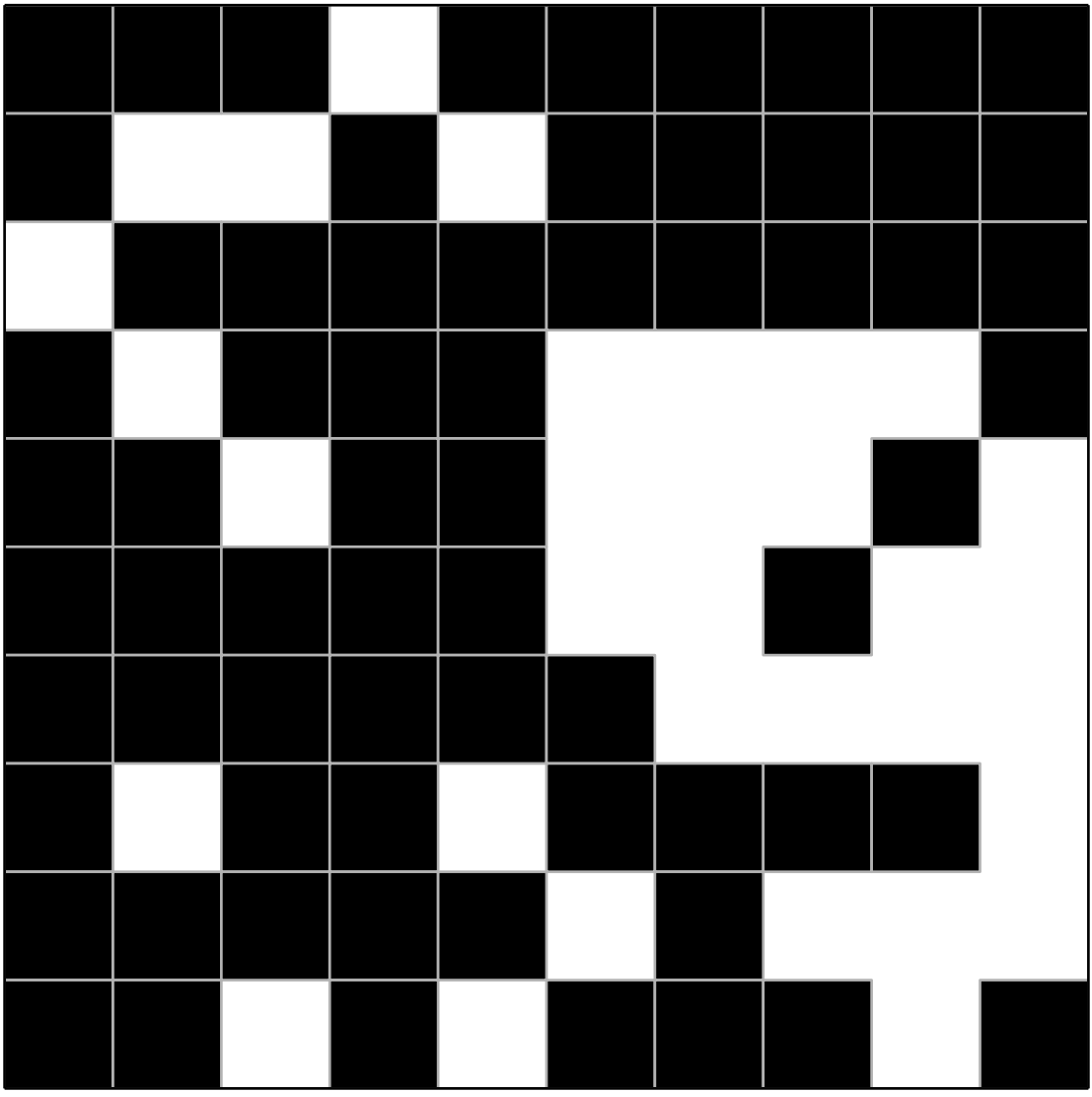
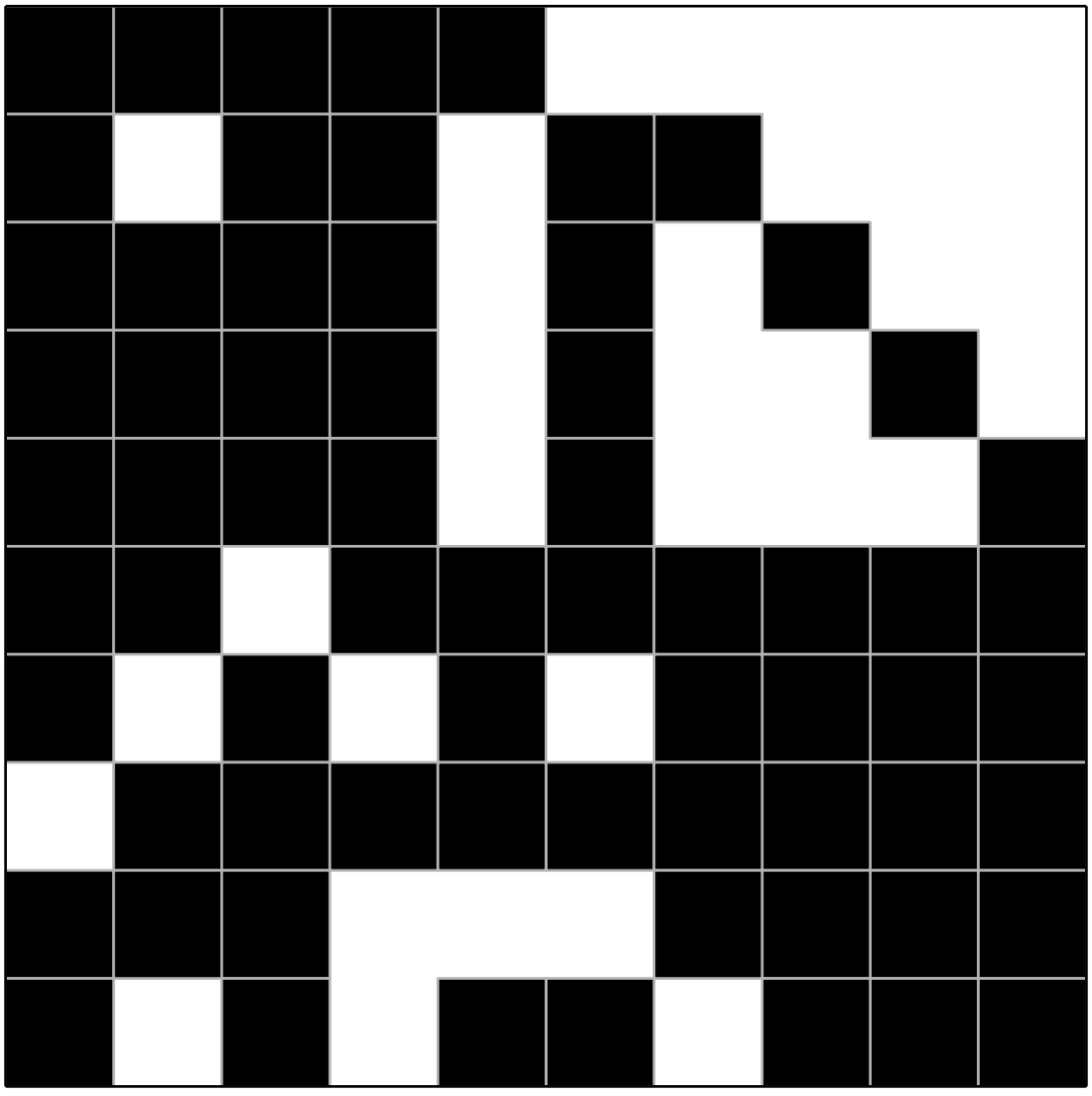
lib2_aircrfta-02 10x10 (67) con: 5, var: 5

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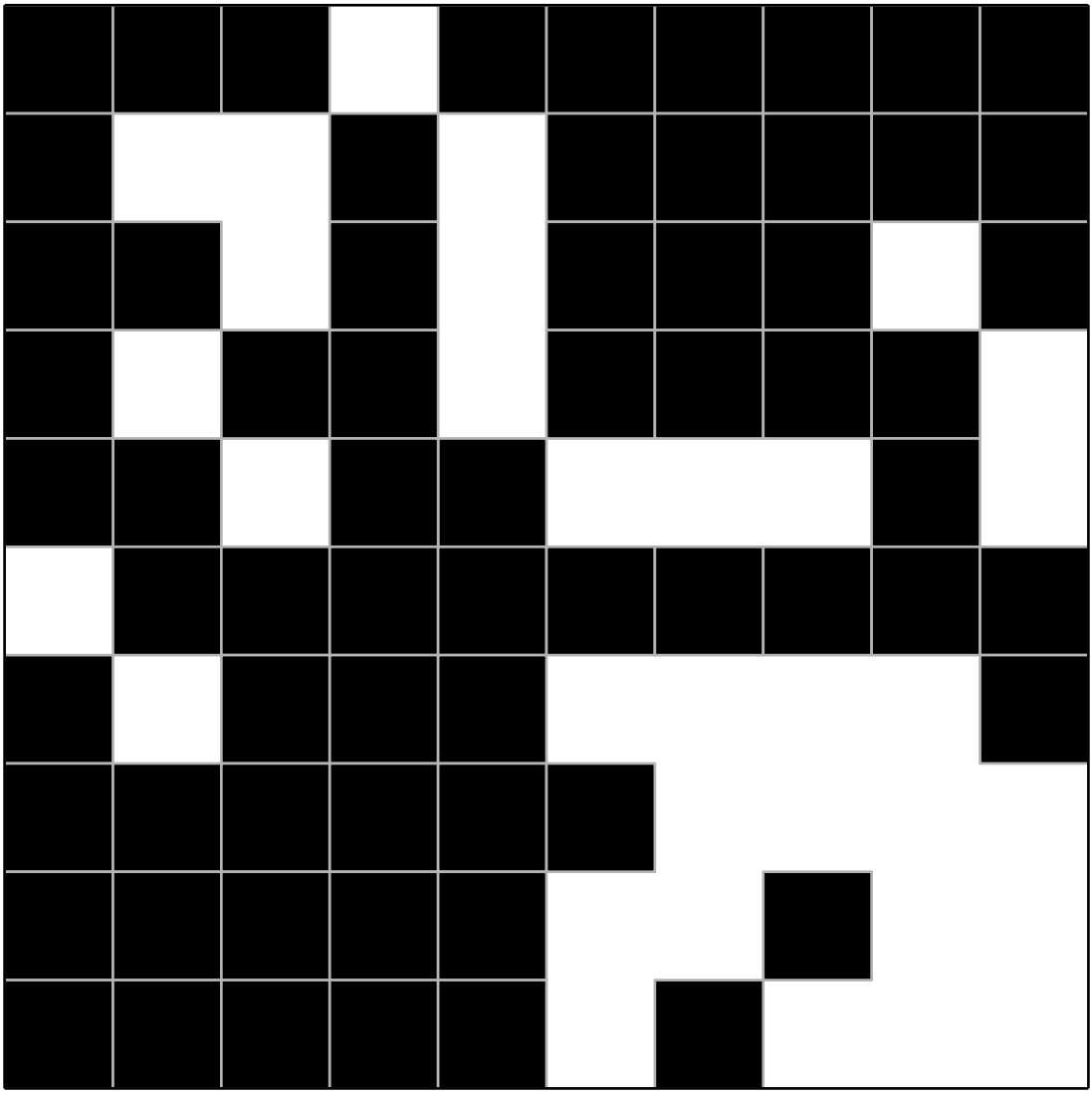
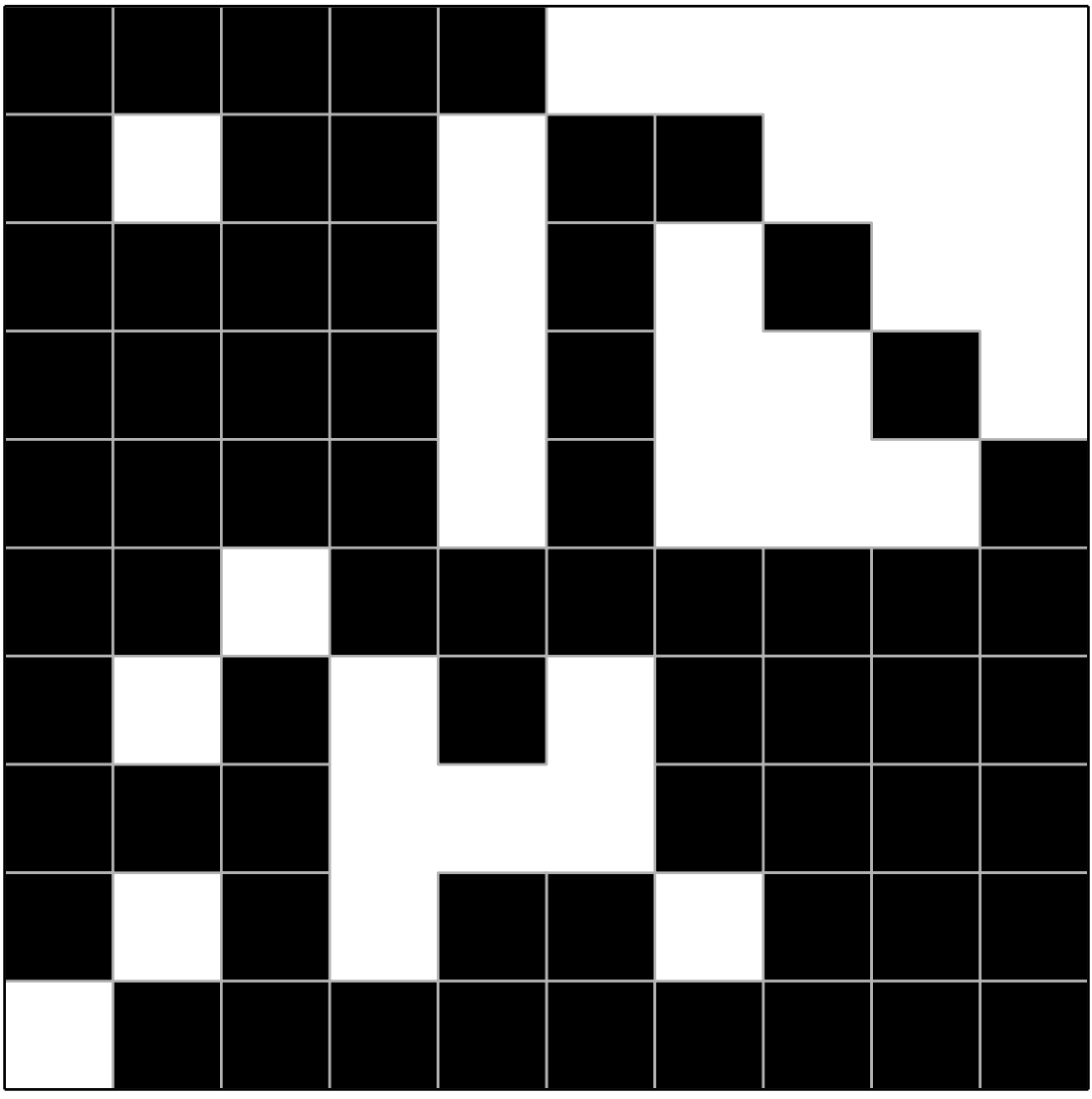
lib2_aircrfta-03 10x10 (67) con: 5, var: 5

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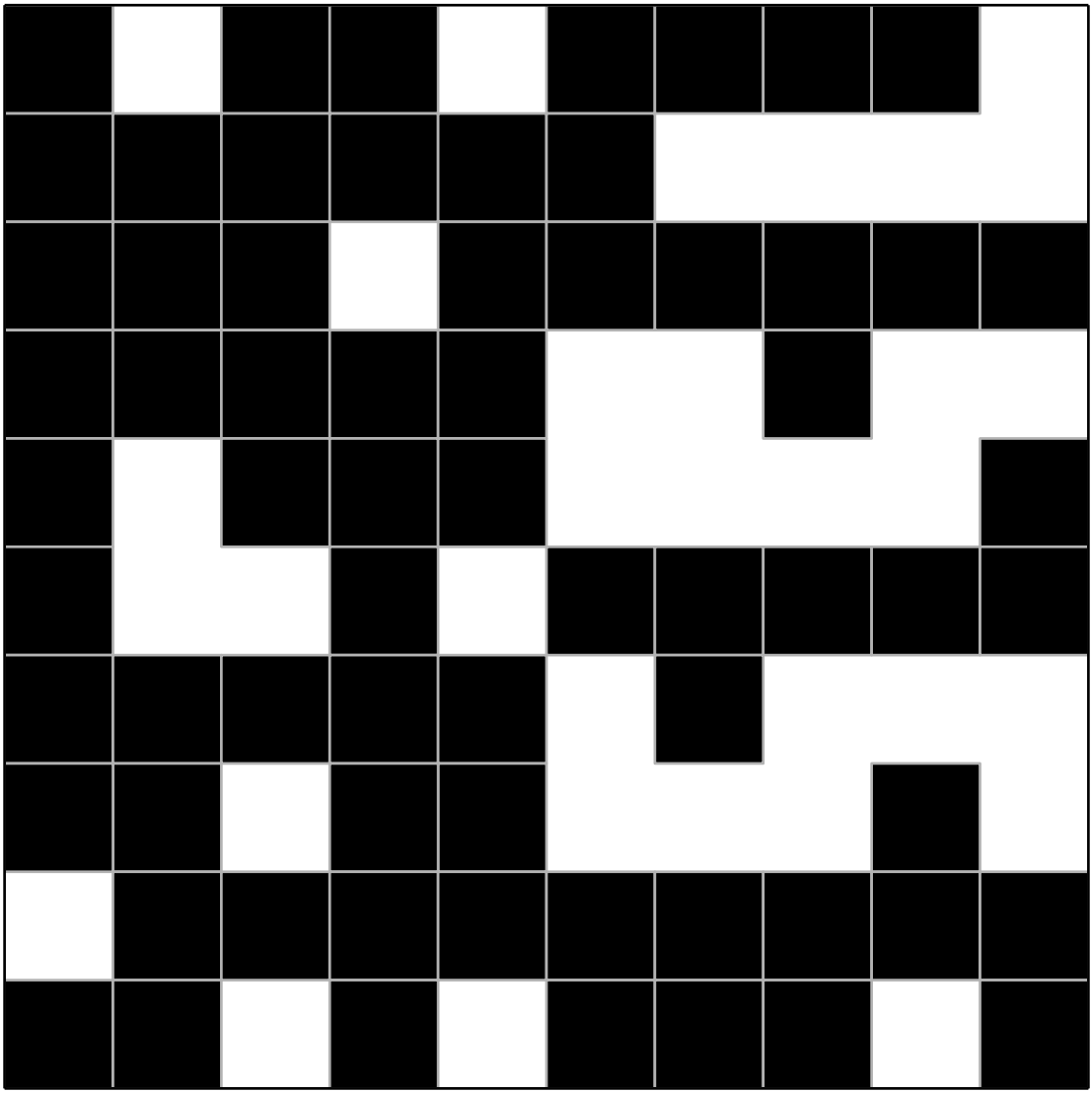
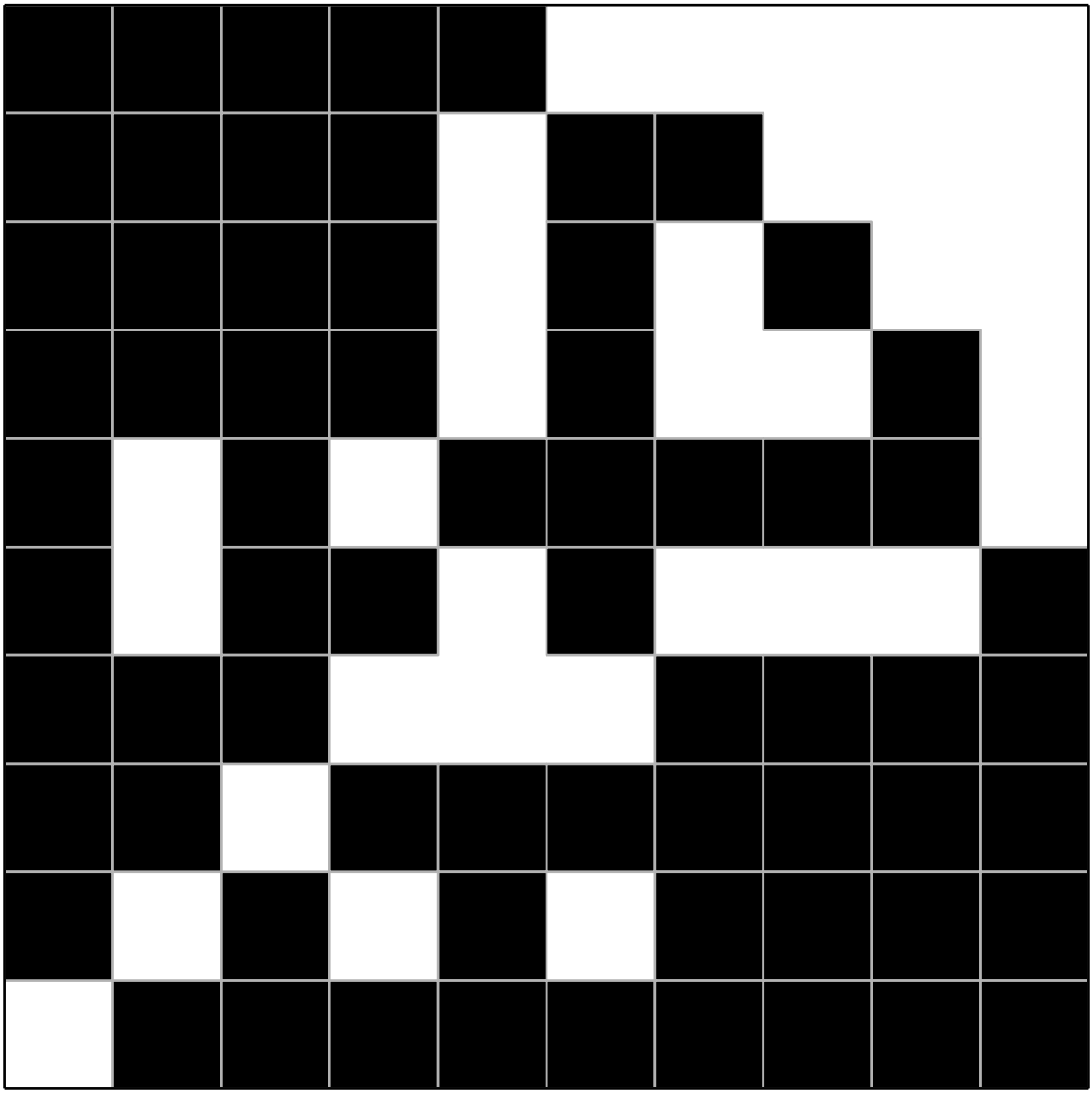
lib2_aircrfta-04 10x10 (67) con: 5, var: 5

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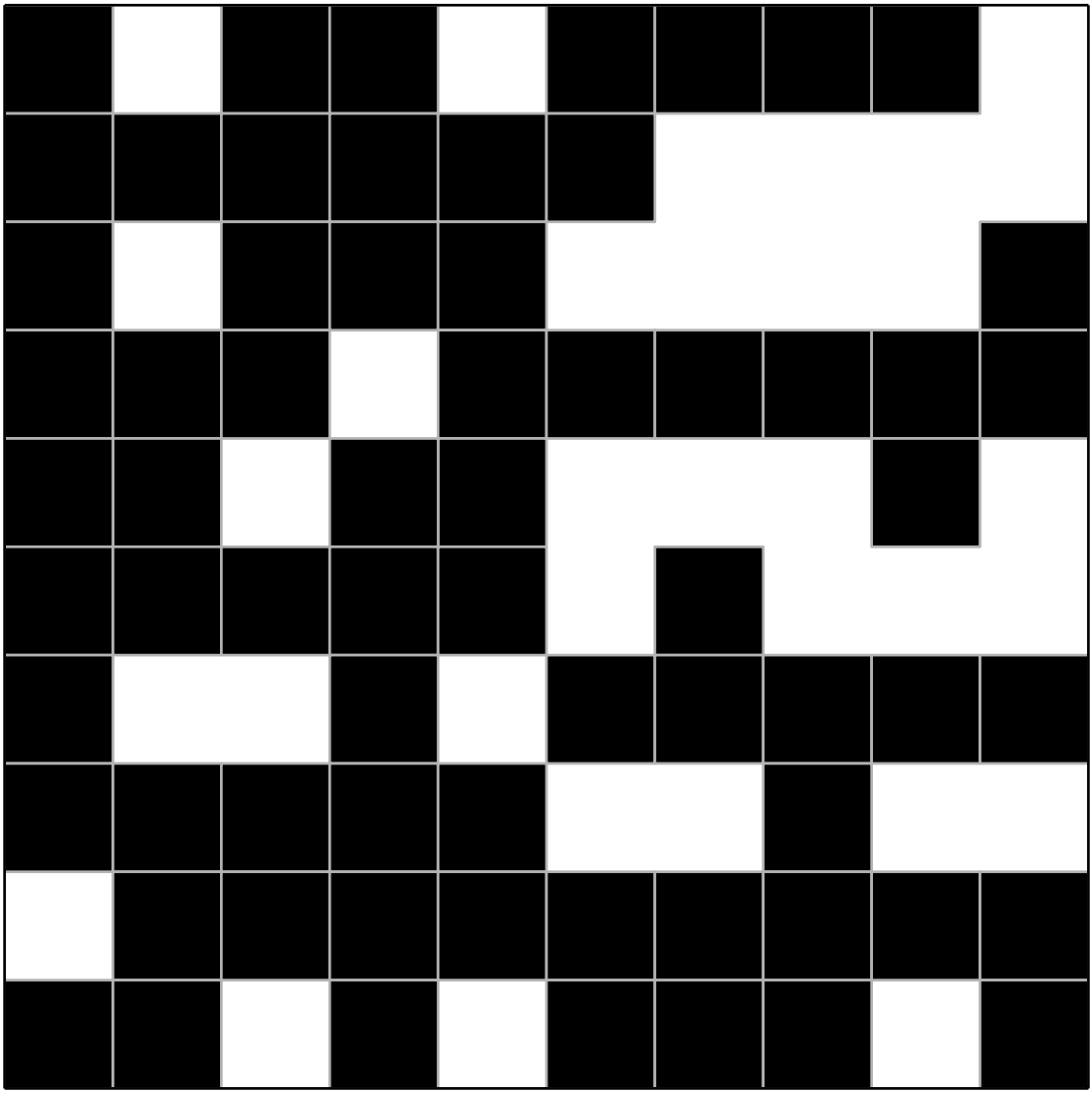
lib2_aircrfta-05 10x10 (67) con: 5, var: 5



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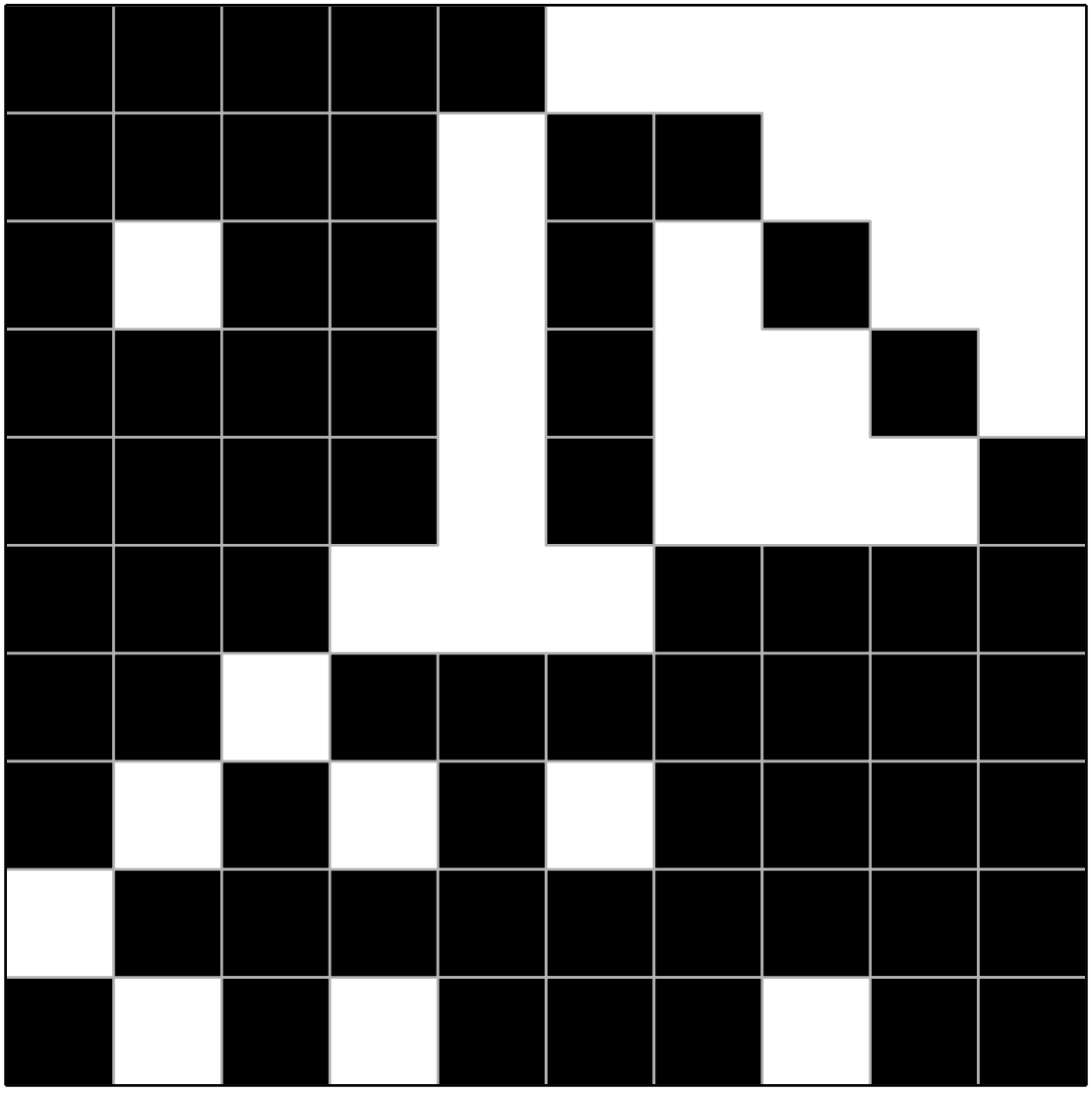
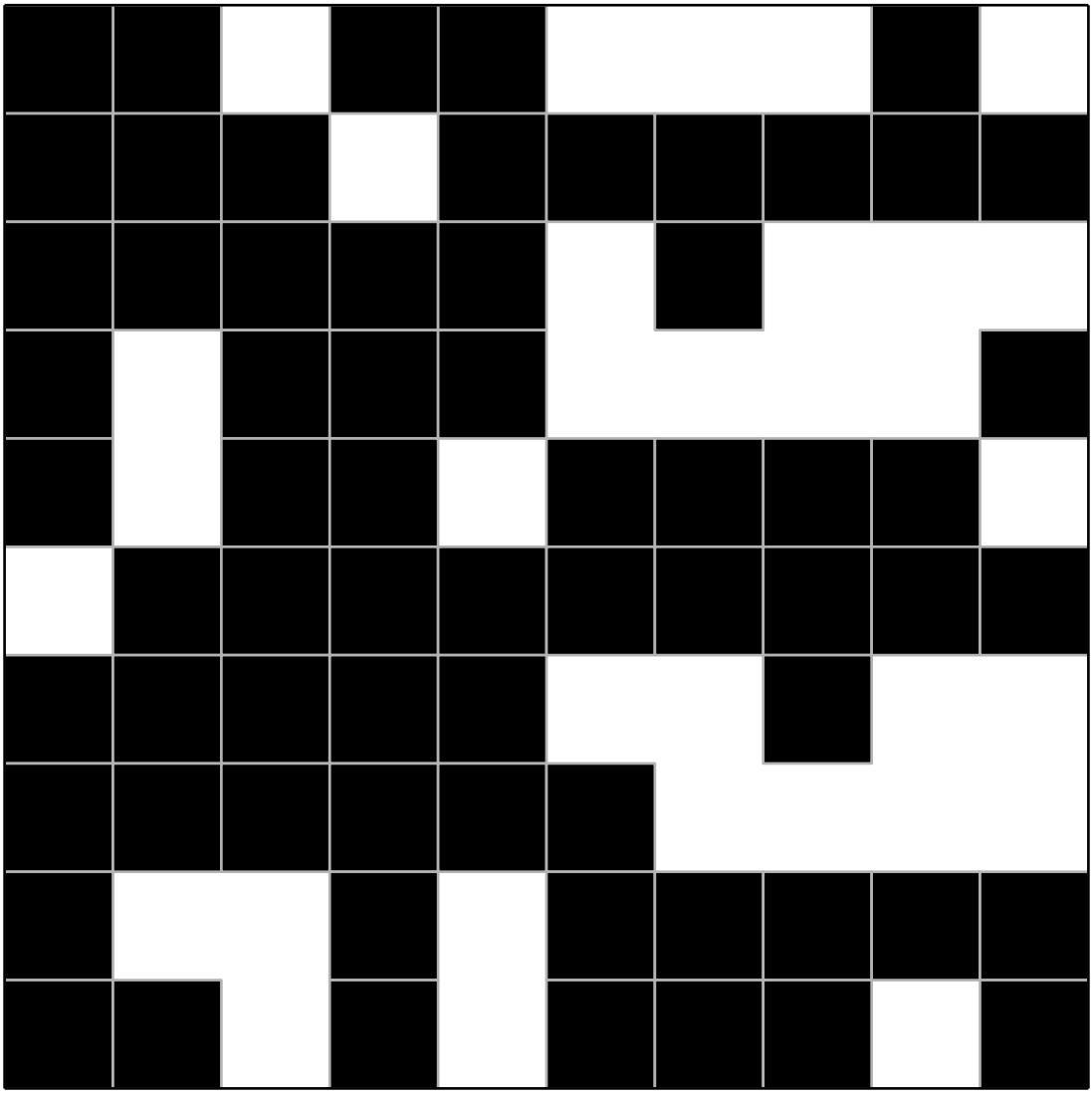
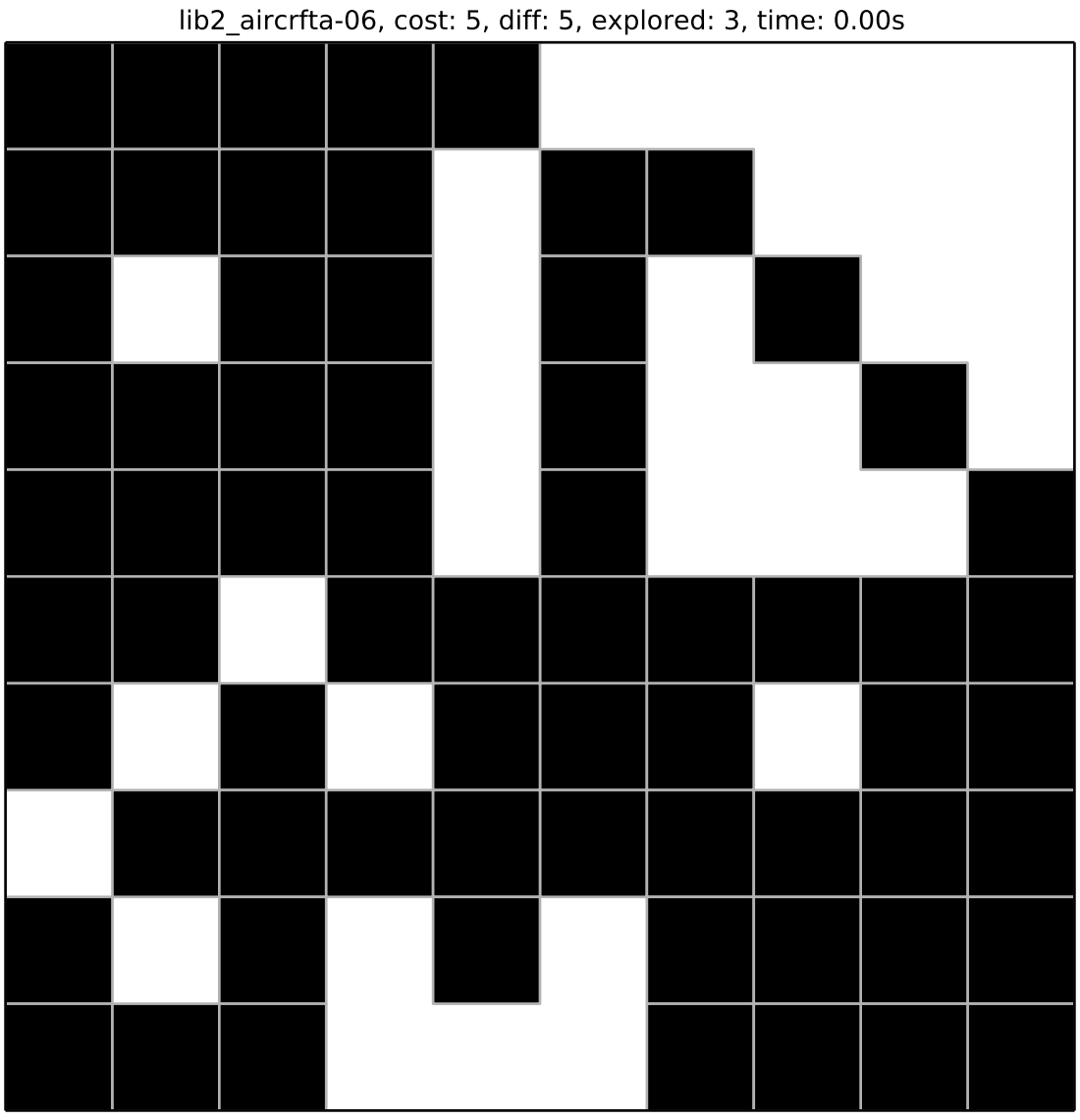


lib2_aircrfta-06 10x10 (67) con: 5, var: 5

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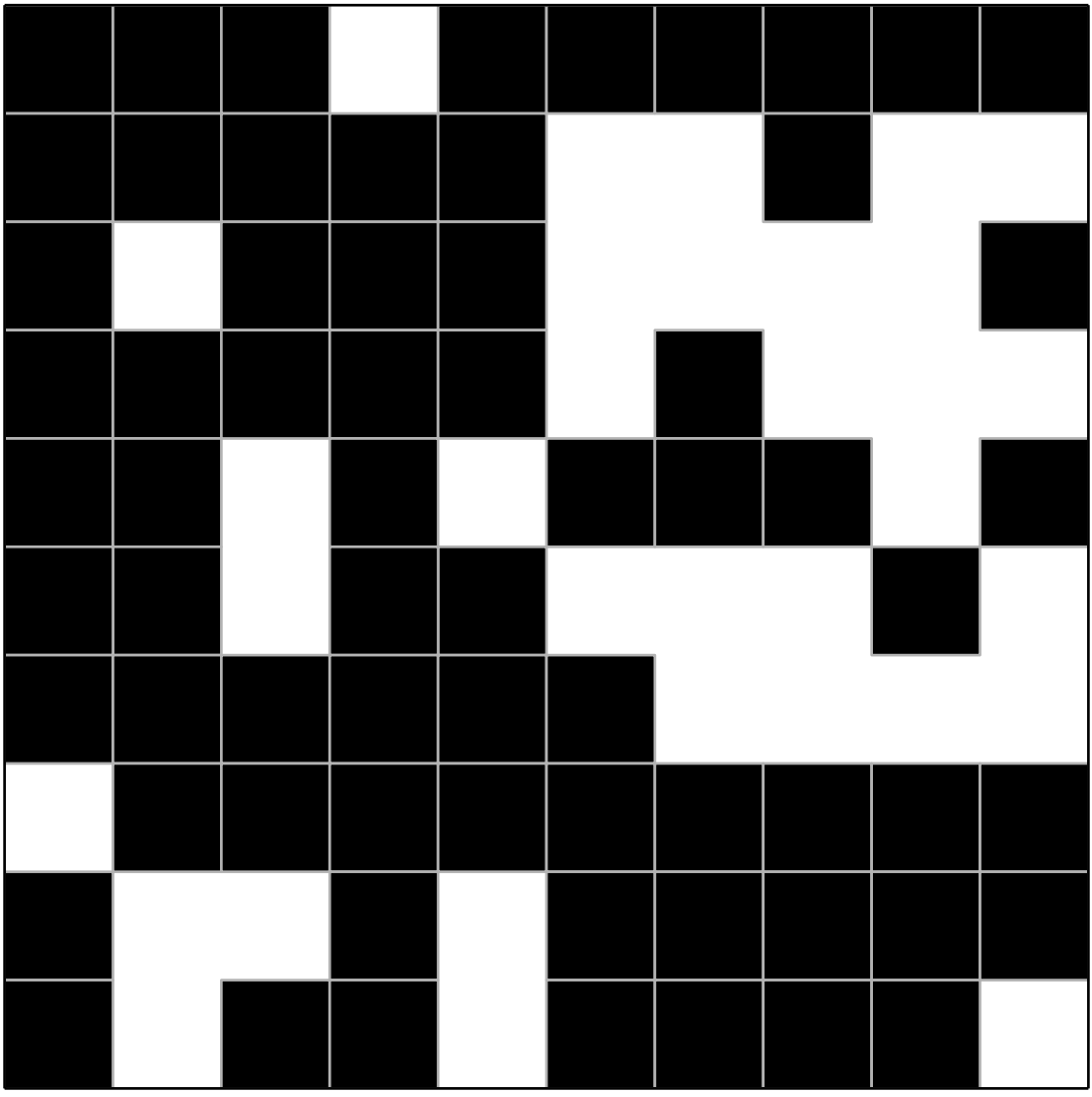
lib2_aircrfta-07 10x10 (67) con: 5, var: 5



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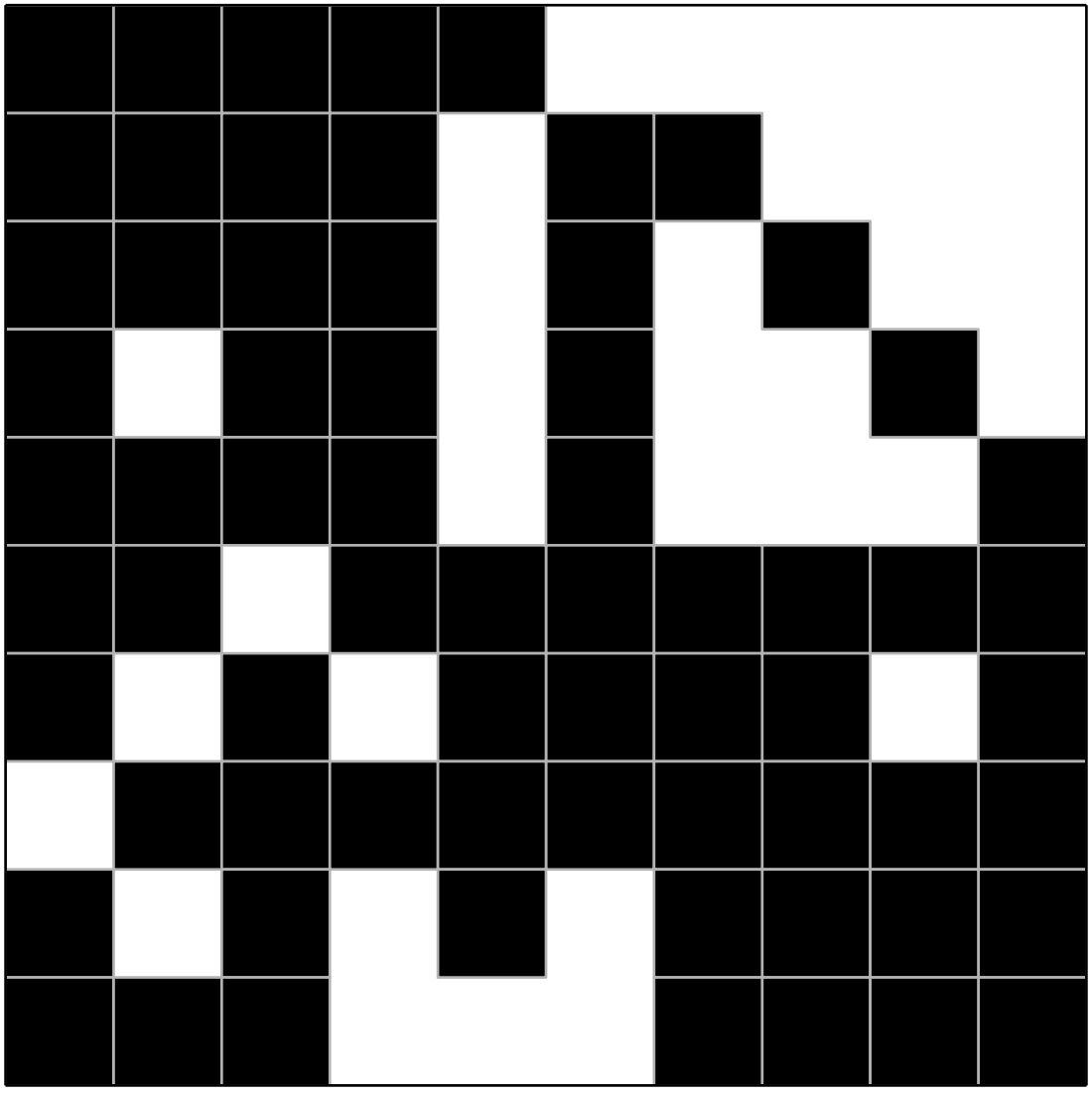
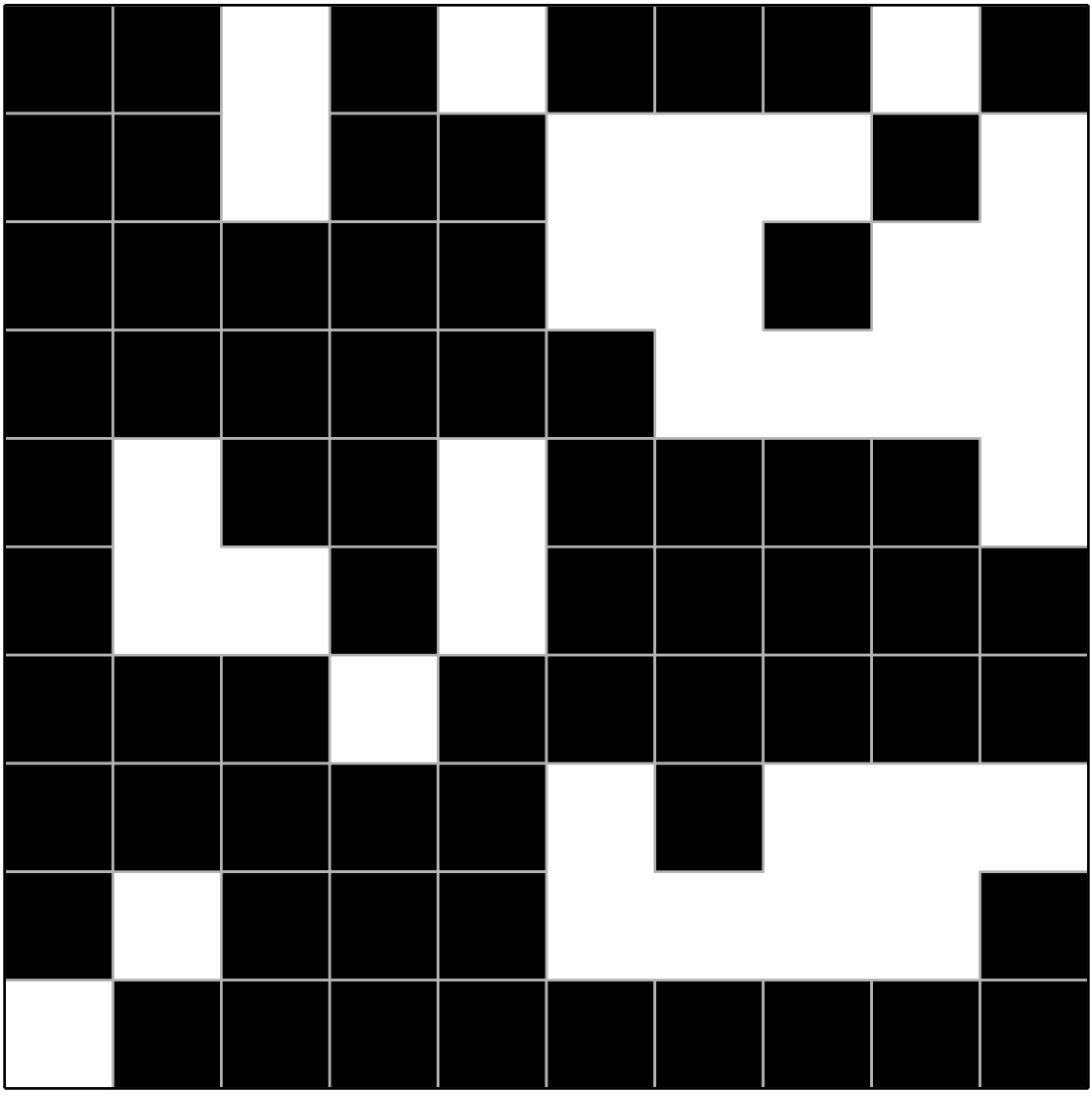


lib2_aircrfta-08 10x10 (67) con: 5, var: 5



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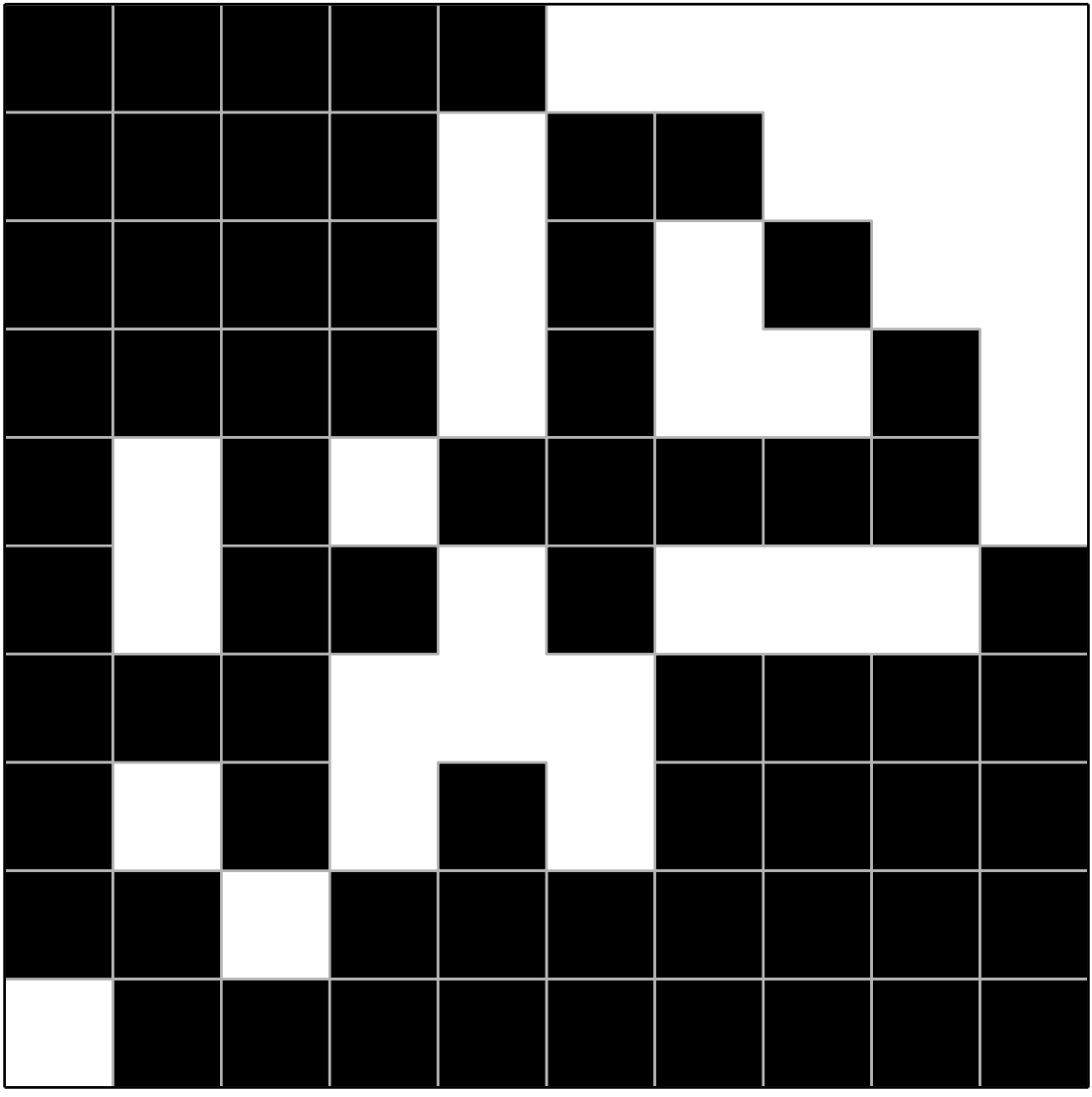
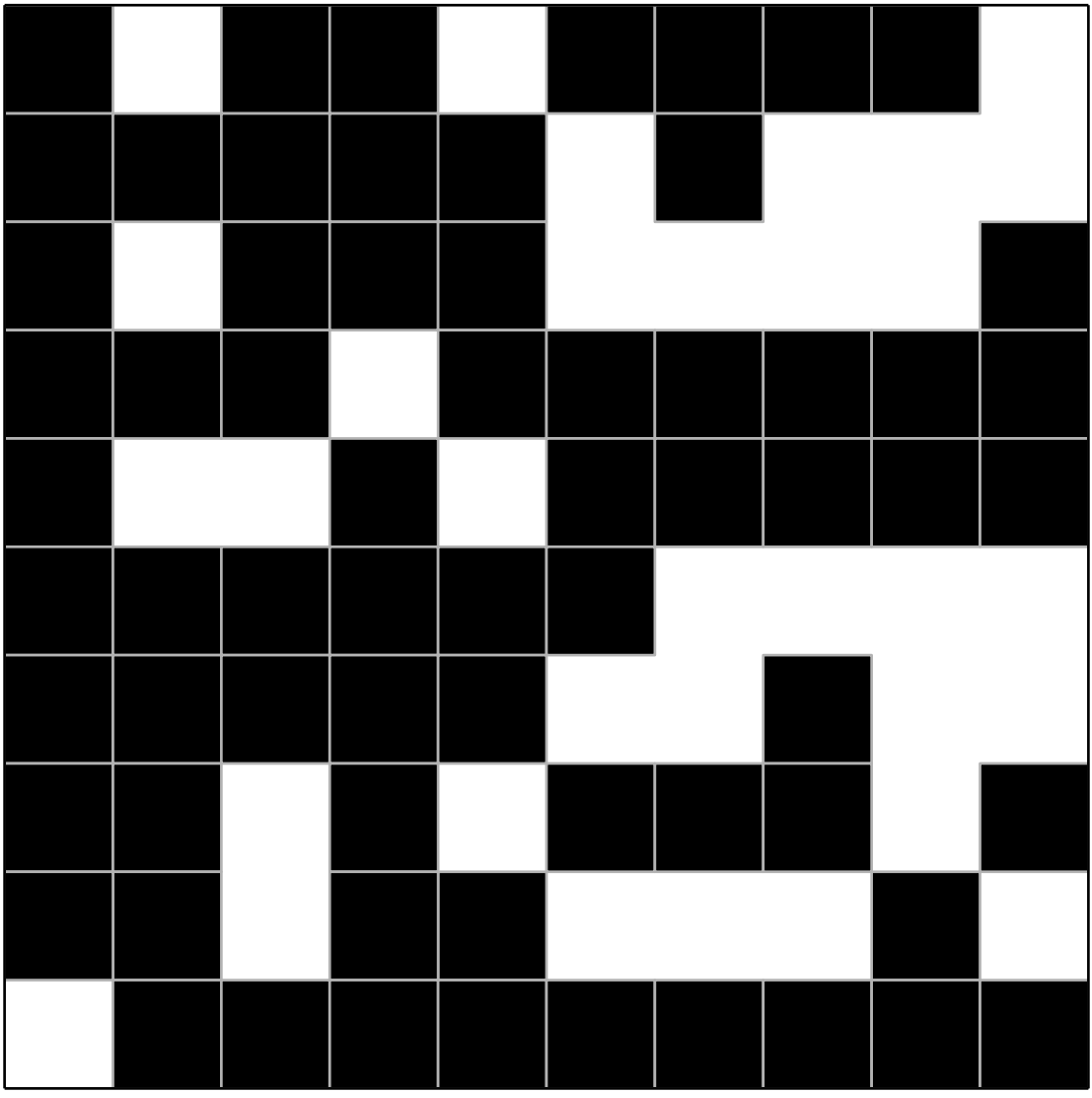
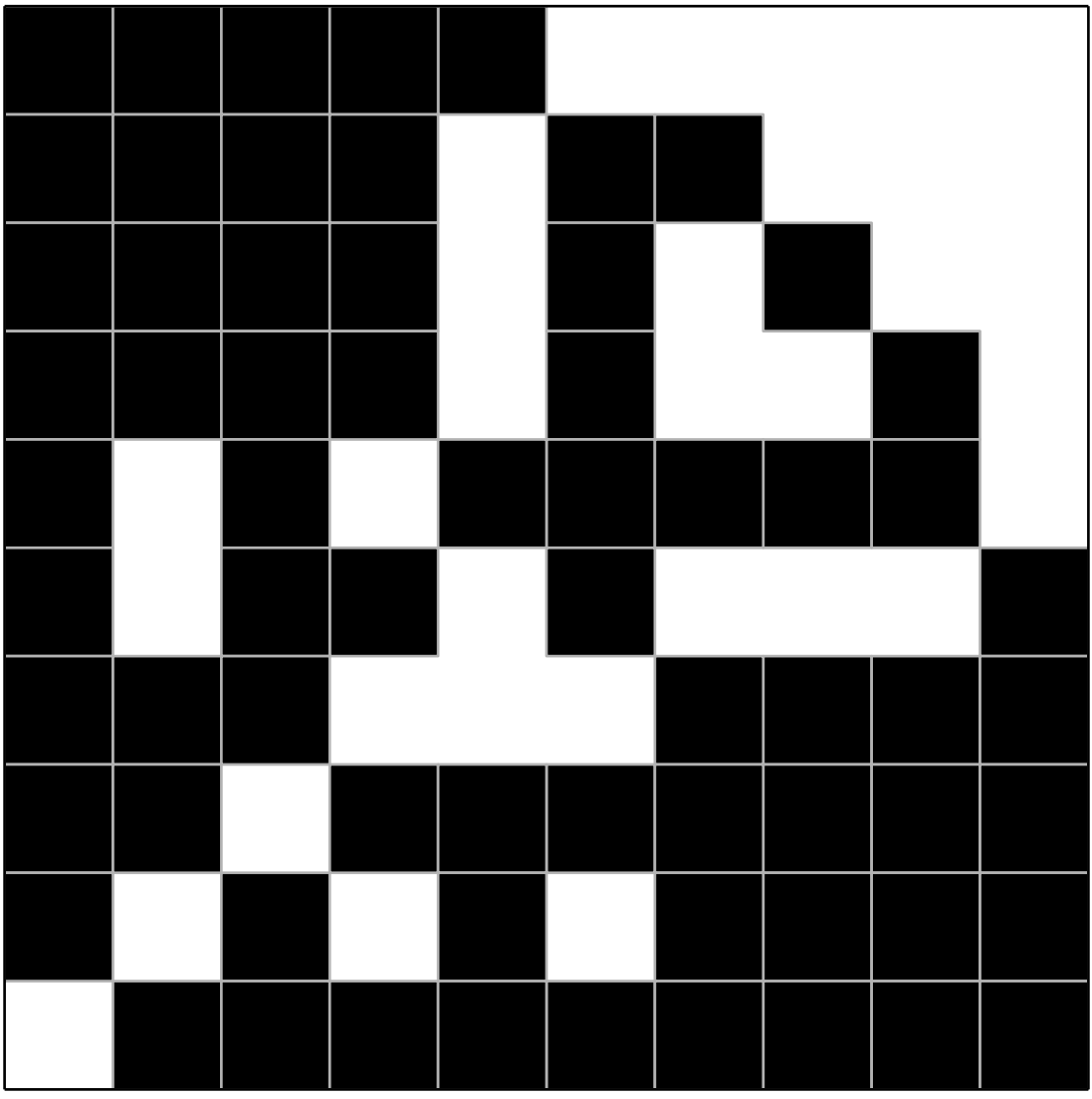


lib2_aircrfta-09 10x10 (67) con: 5, var: 5

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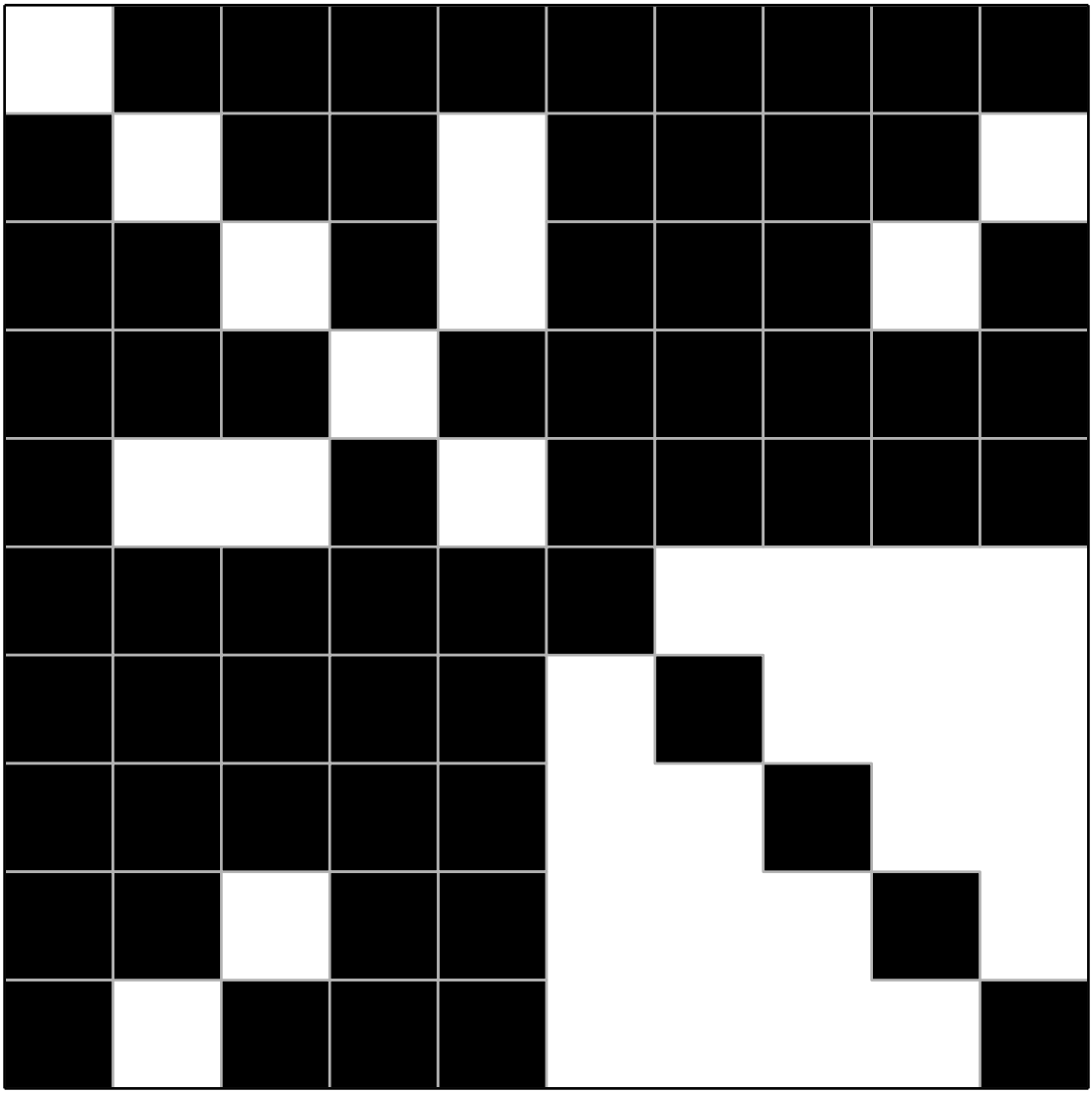
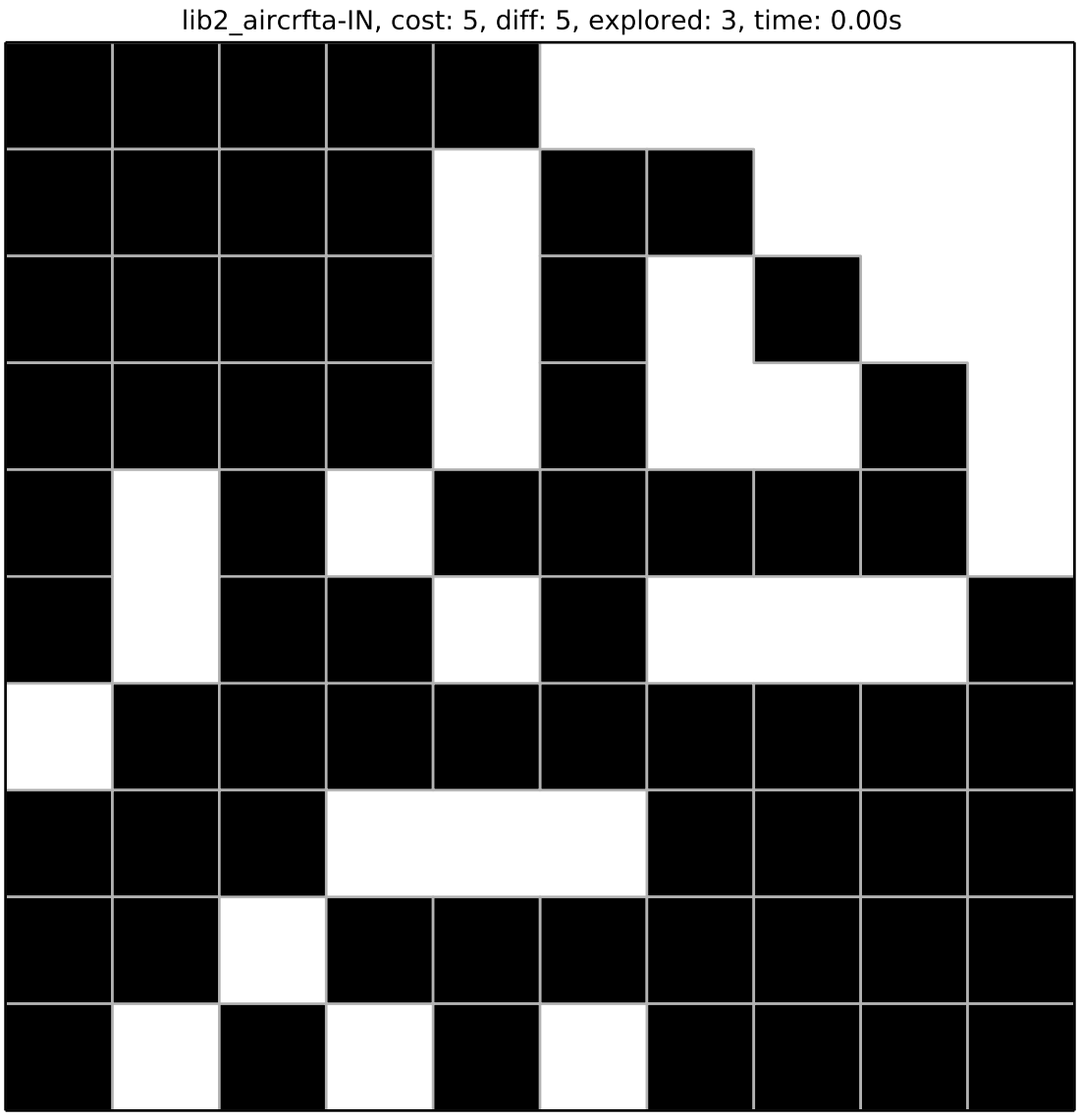
lib2_aircrfta-IN 10x10 (67) con: 5, var: 5

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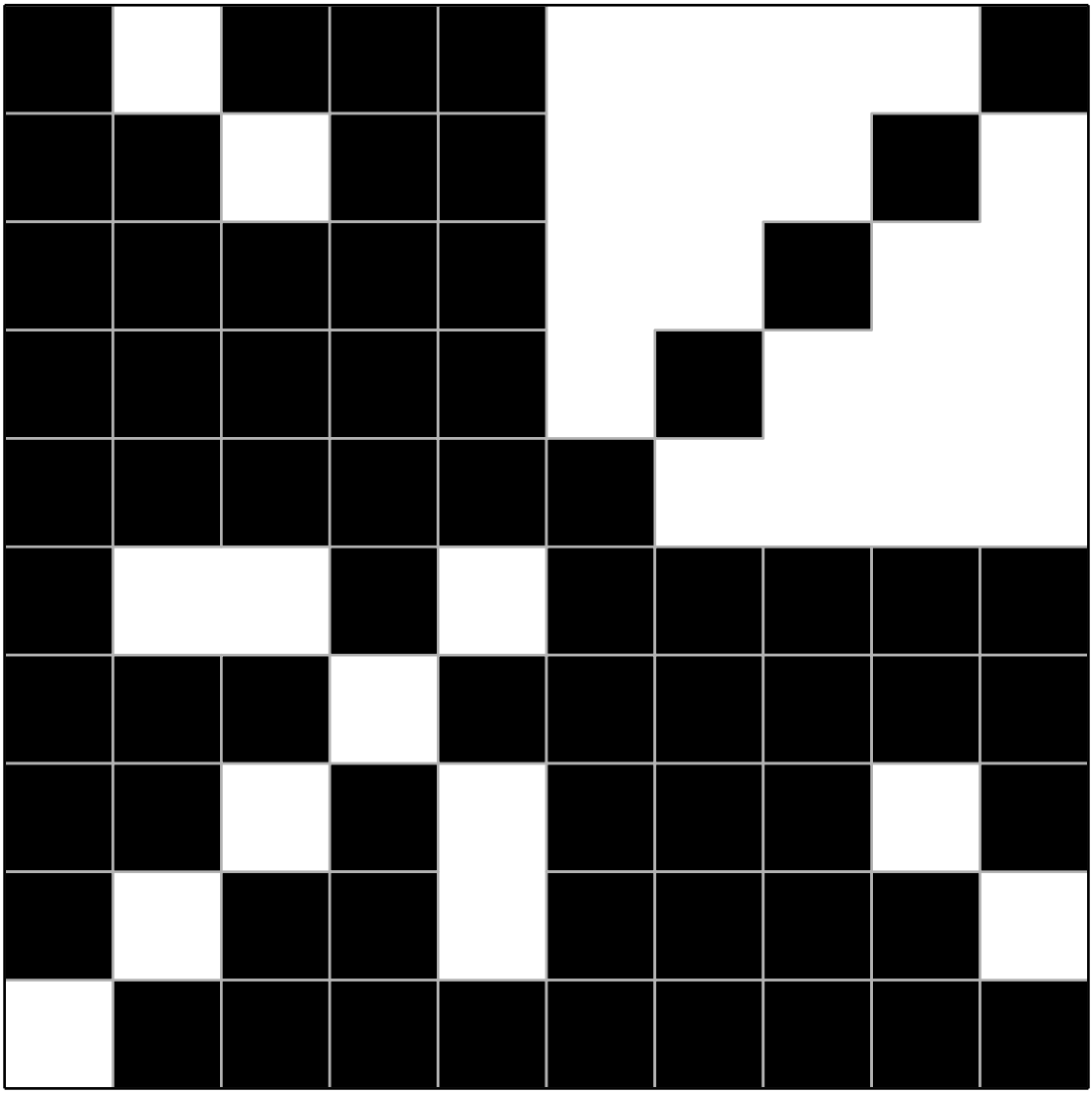
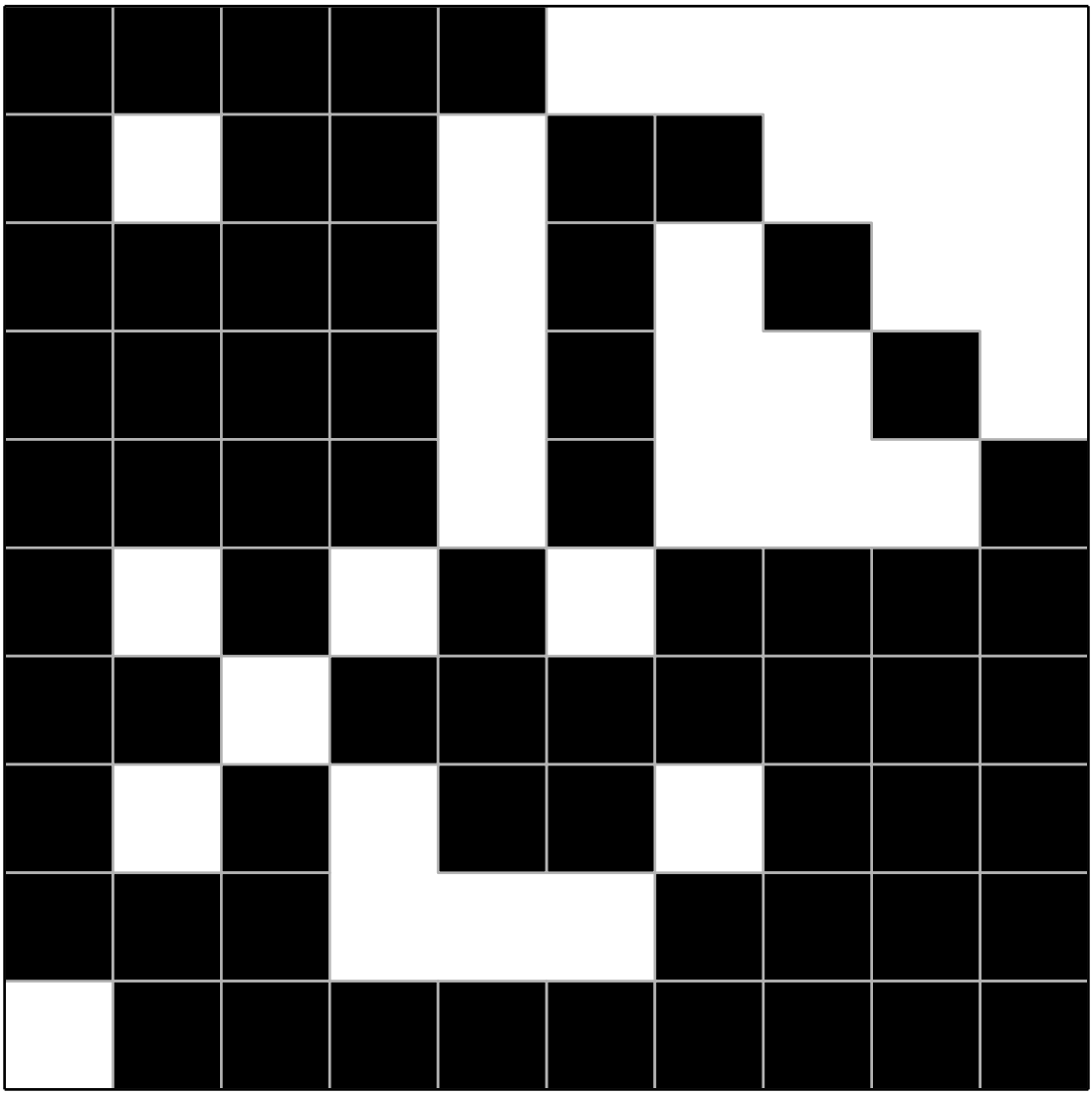
lib2_aircrfta-RE 10x10 (67) con: 5, var: 5

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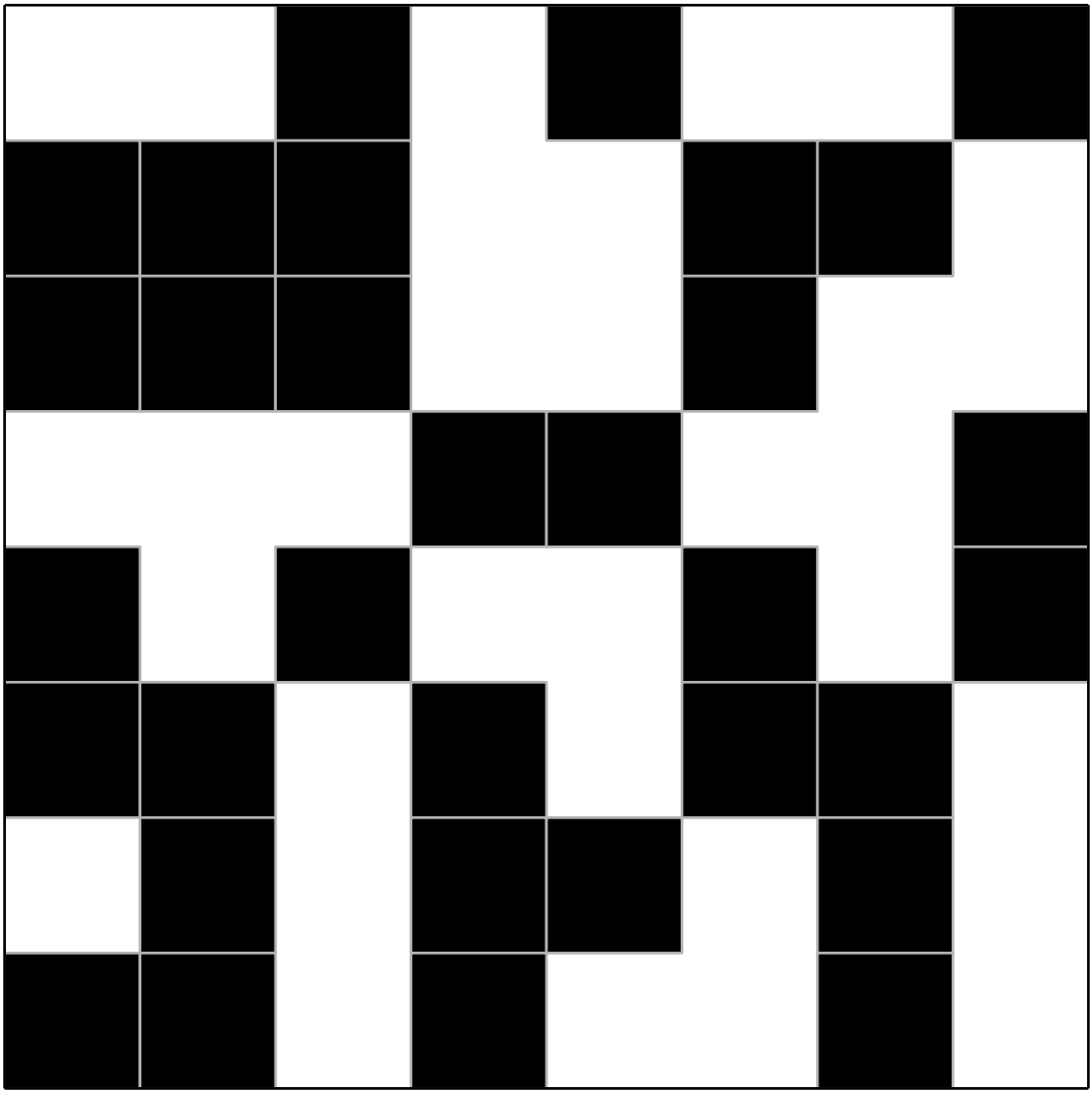
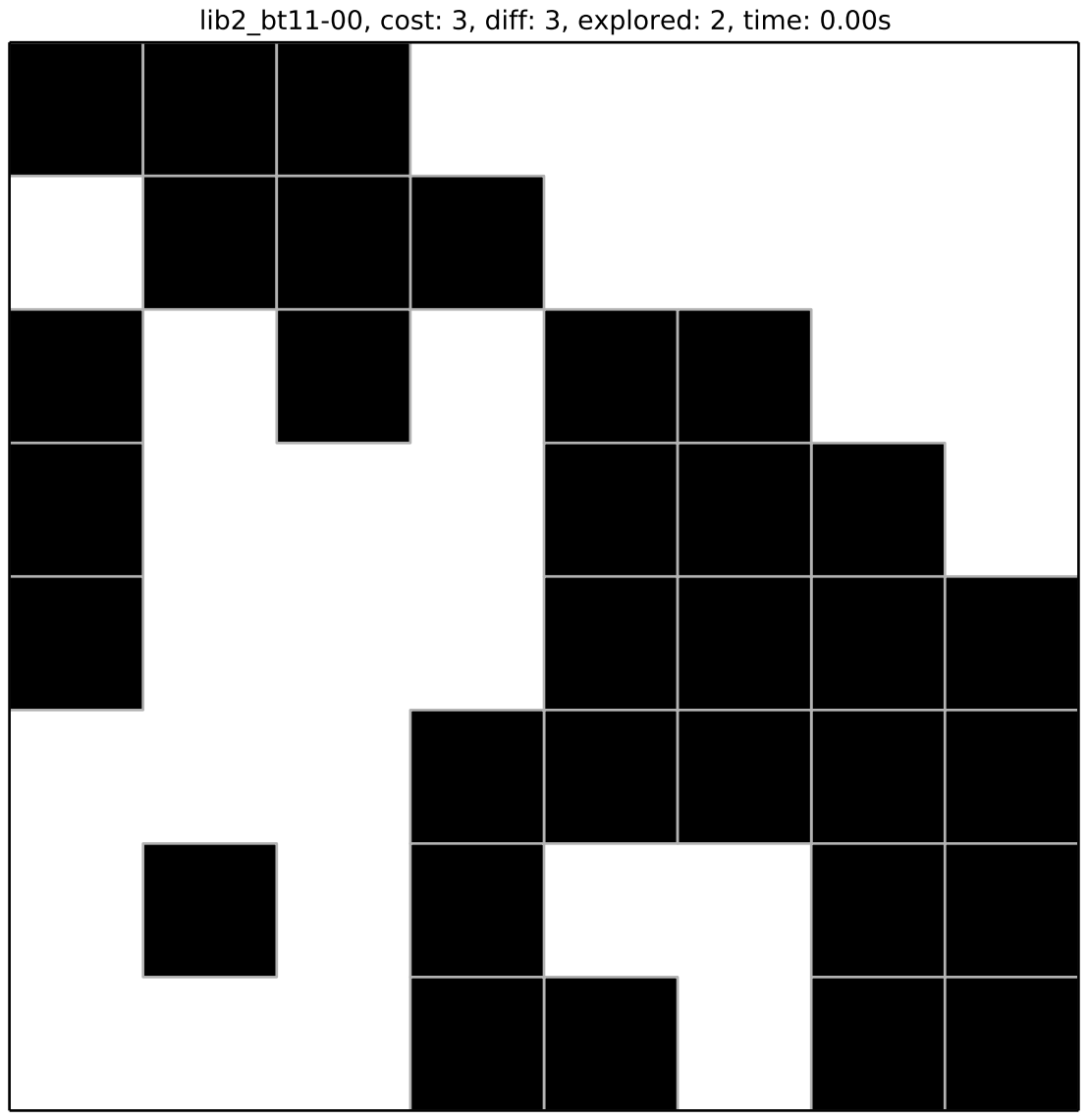
lib2_bt11-00 8x8 (32) con: 3, var: 5

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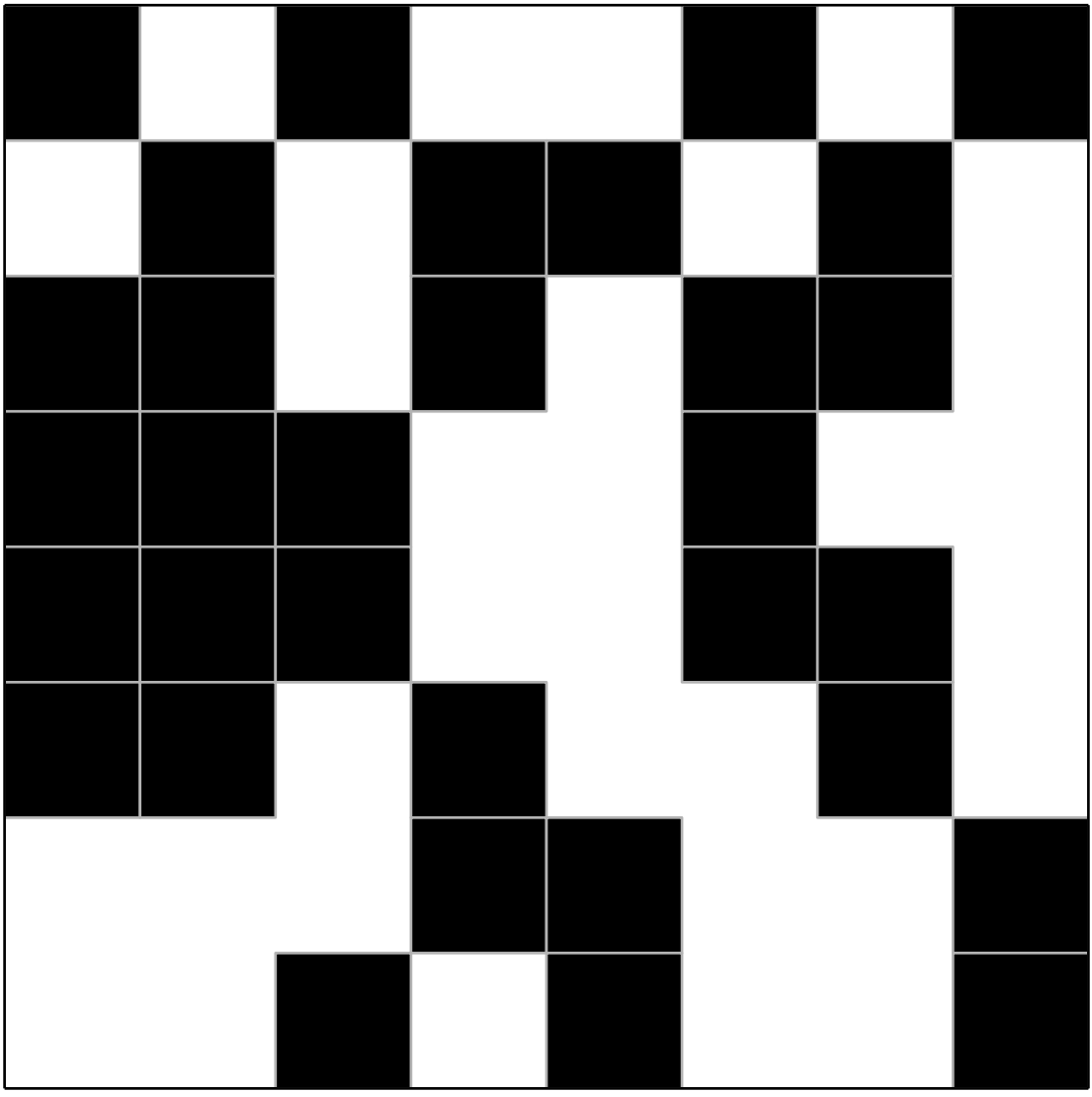
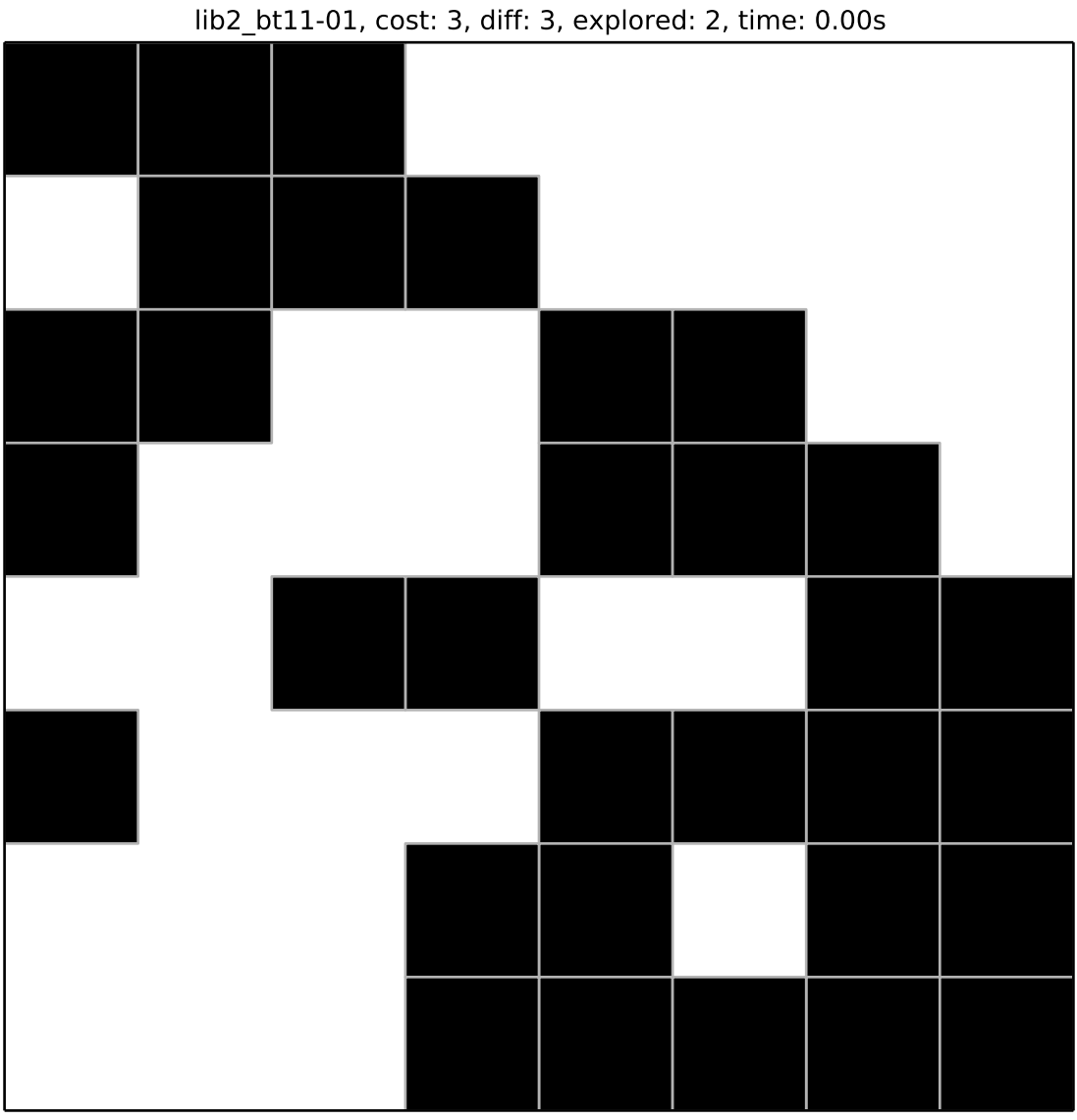
lib2_bt11-01 8x8 (32) con: 3, var: 5

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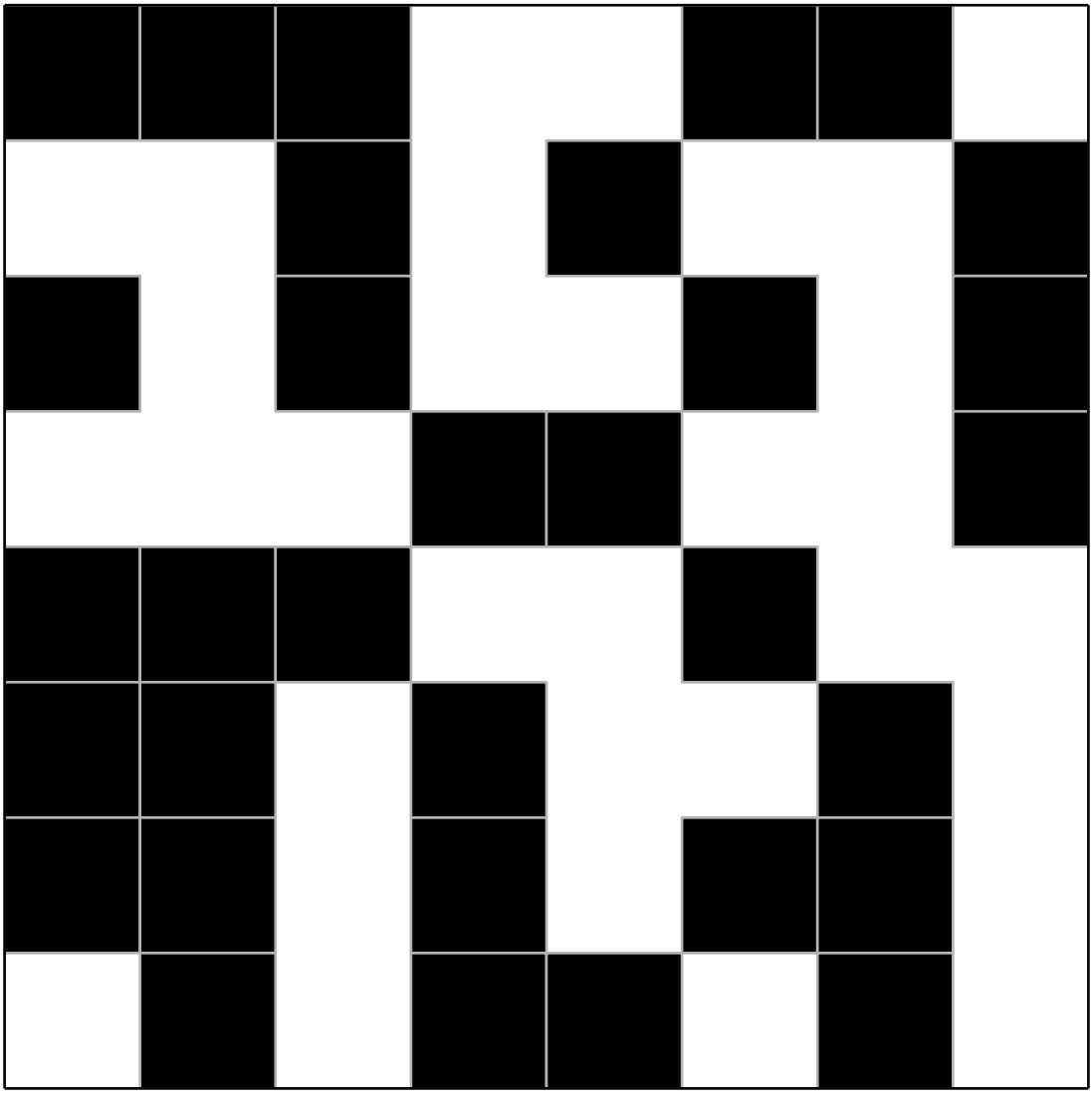
lib2_bt11-02 8x8 (32) con: 3, var: 5



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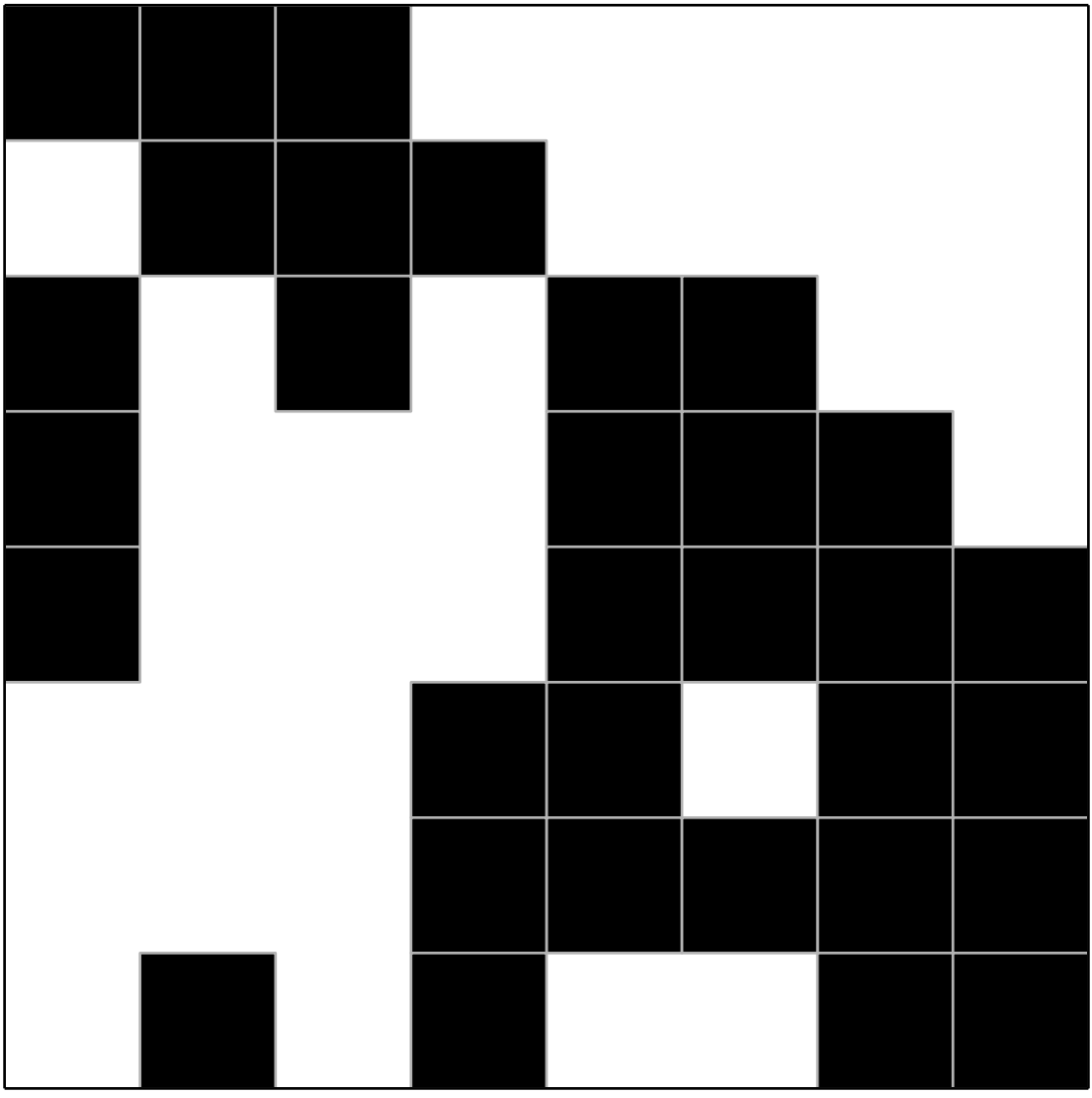

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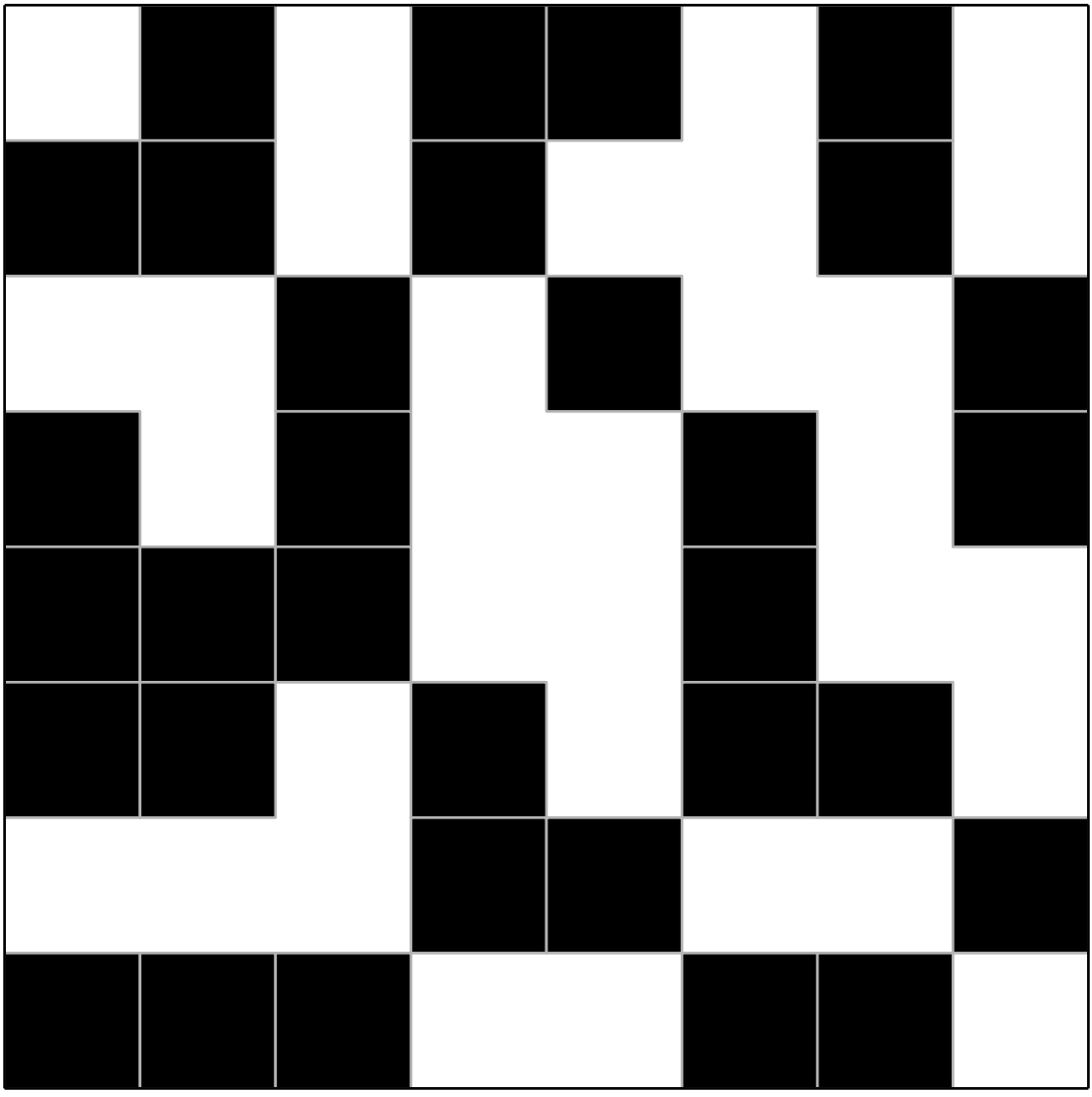

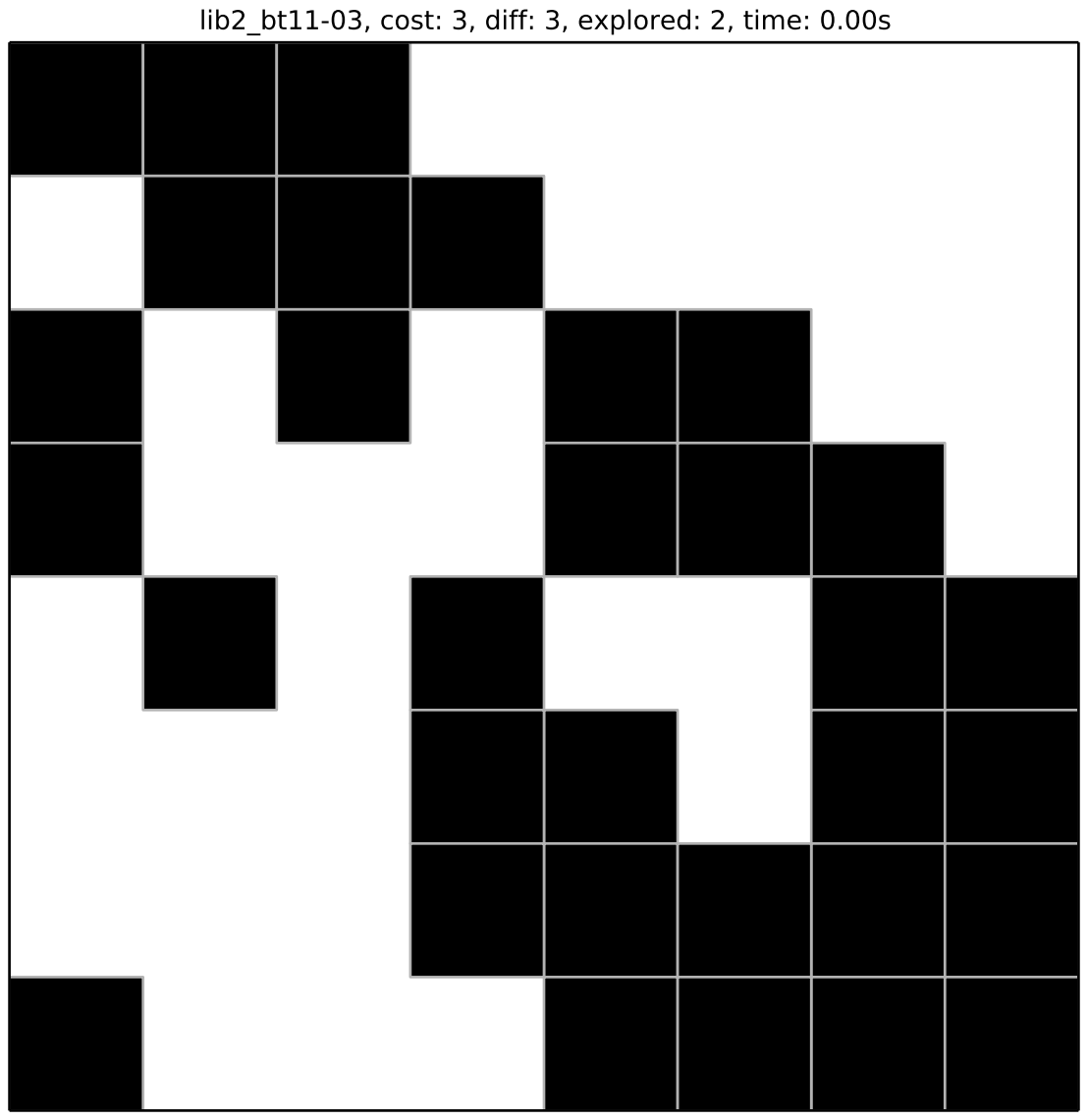
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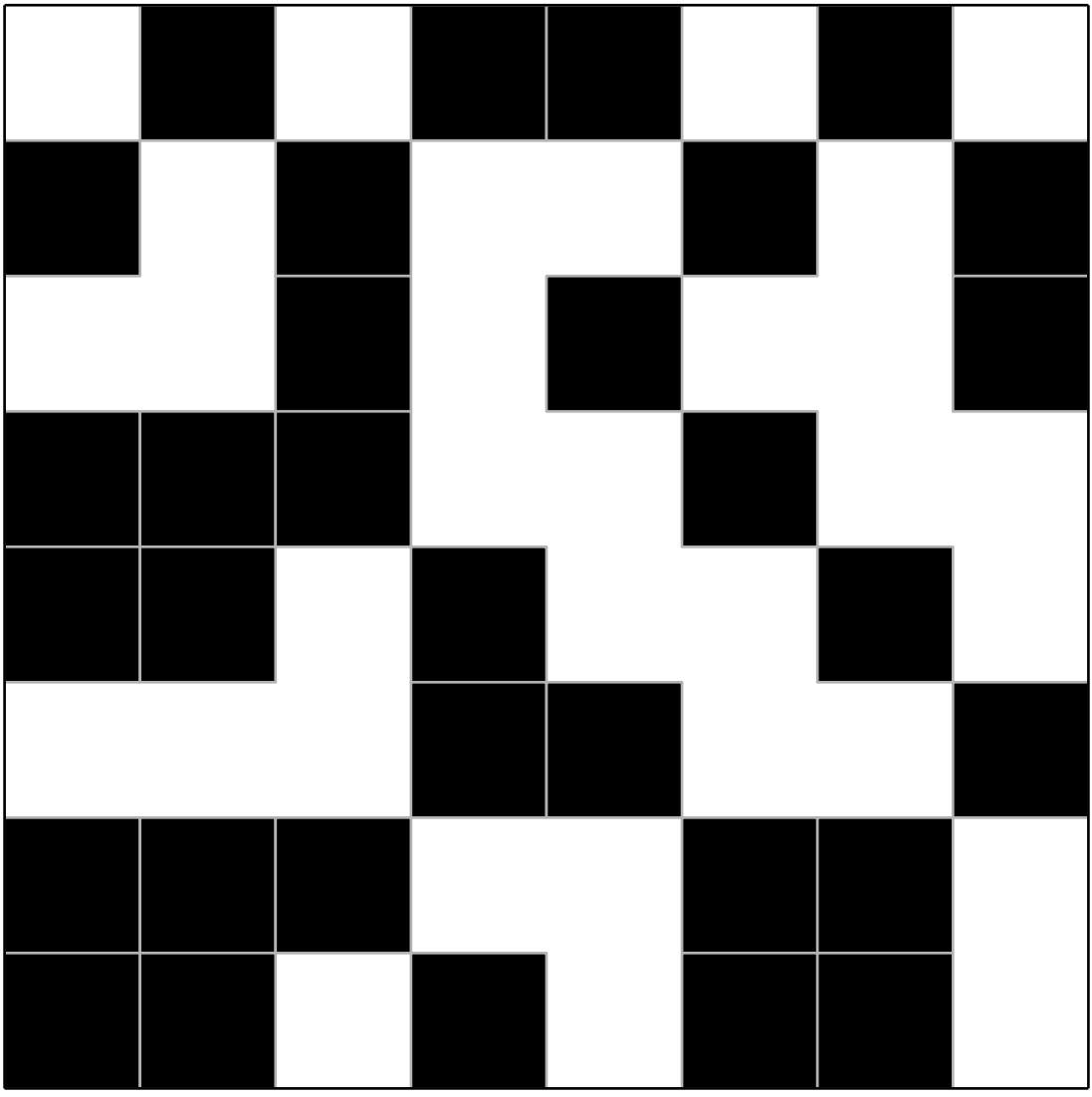

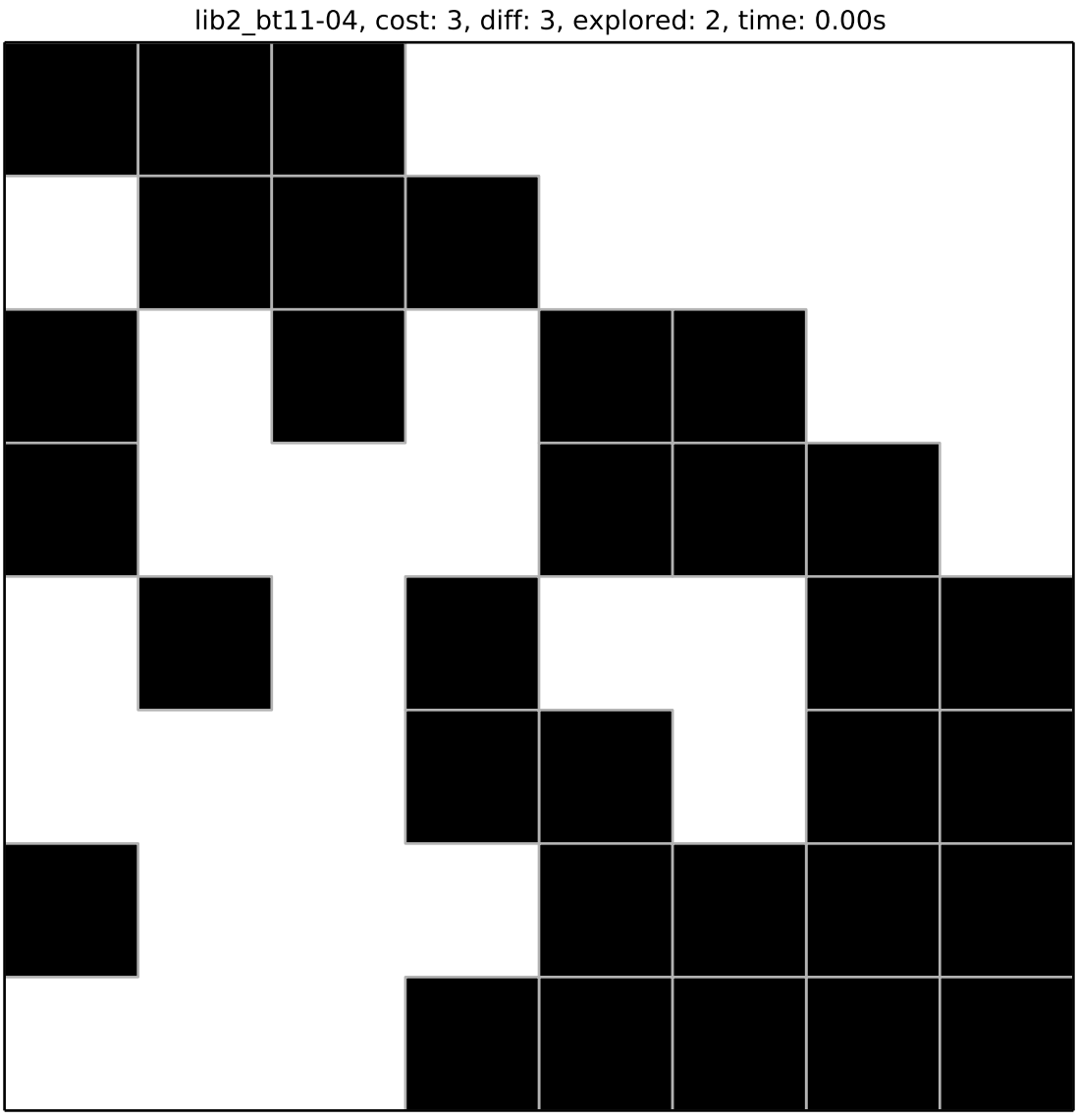
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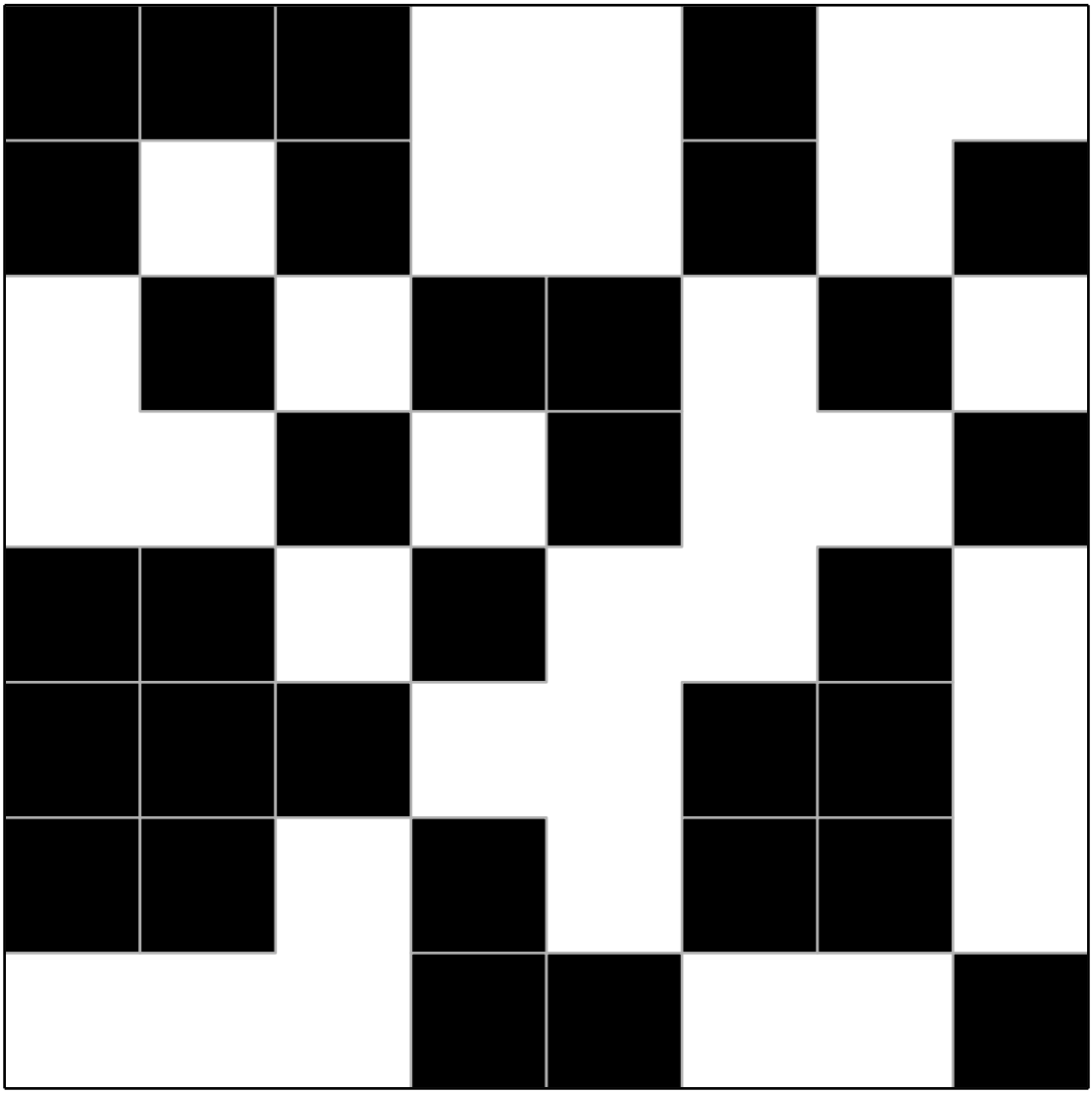
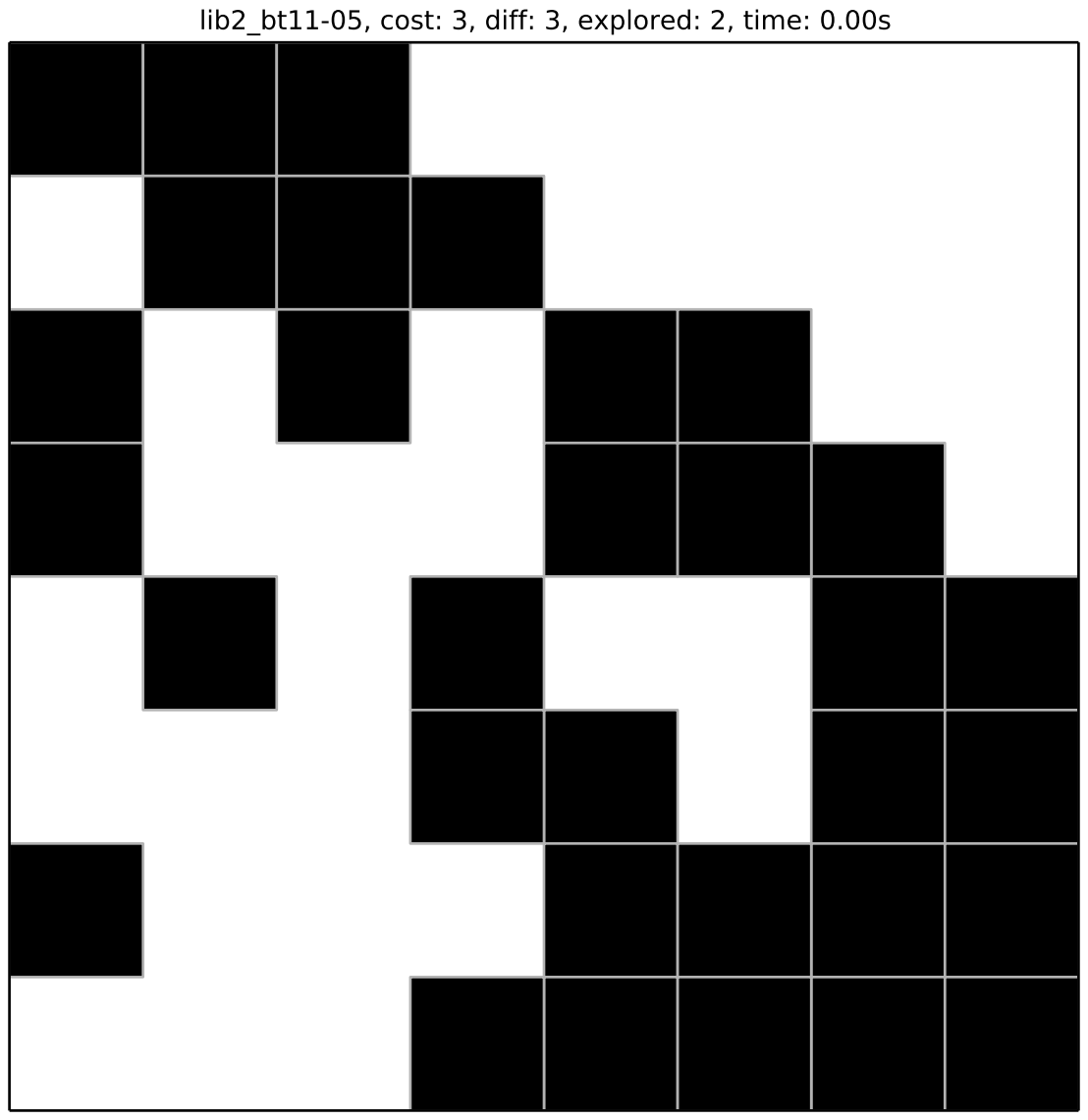
lib2_bt11-05 8x8 (32) con: 3, var: 5

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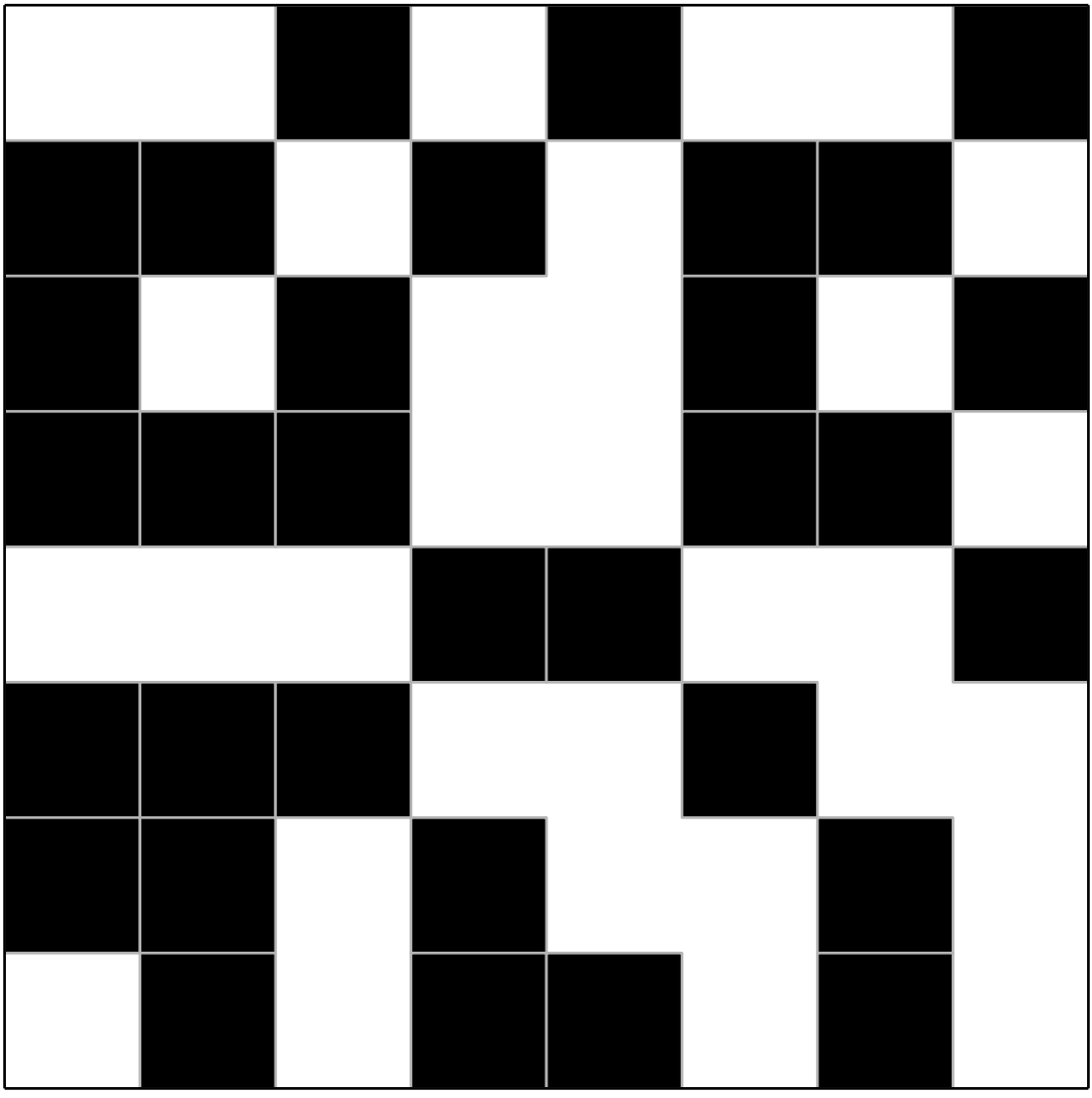

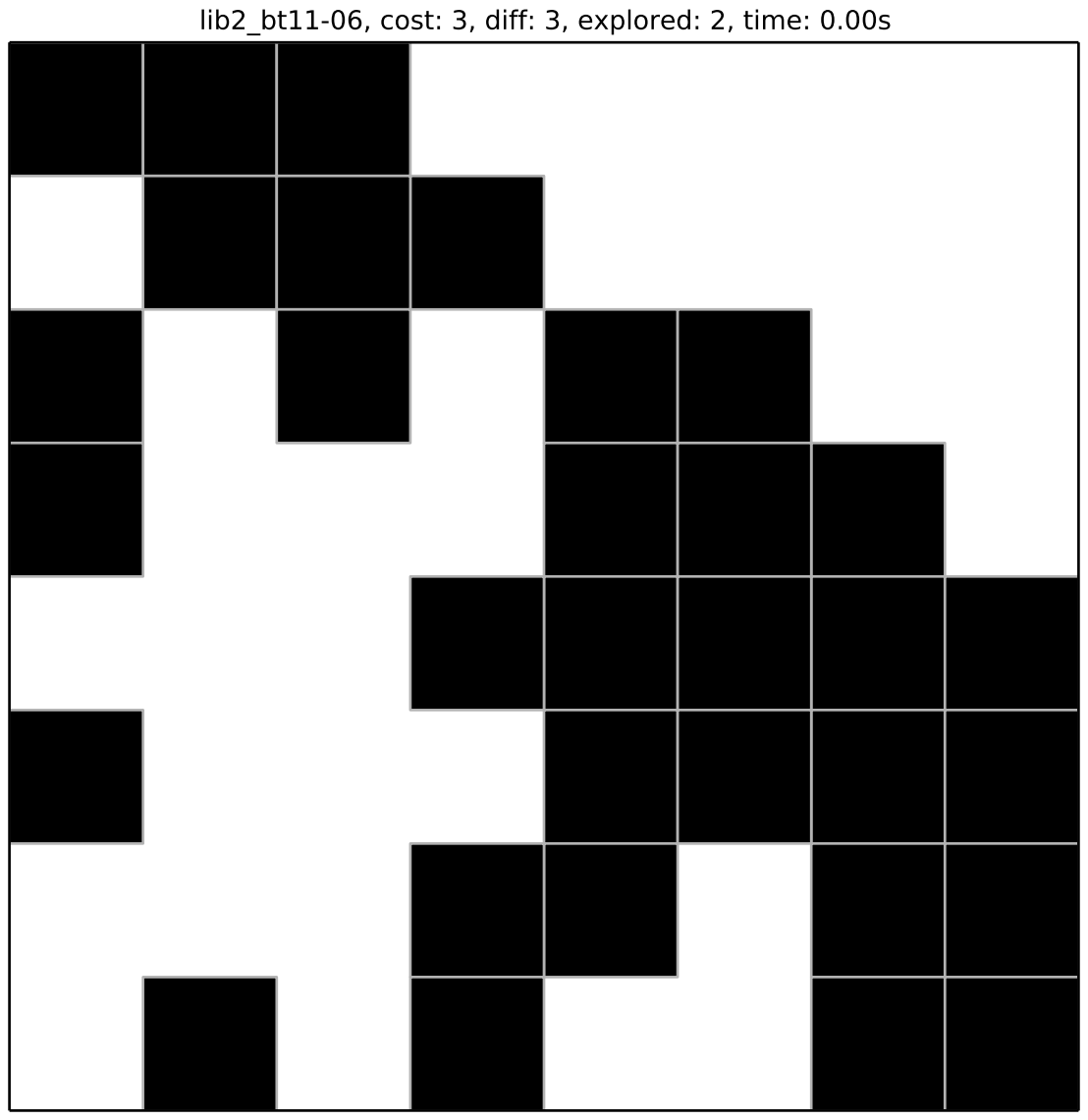
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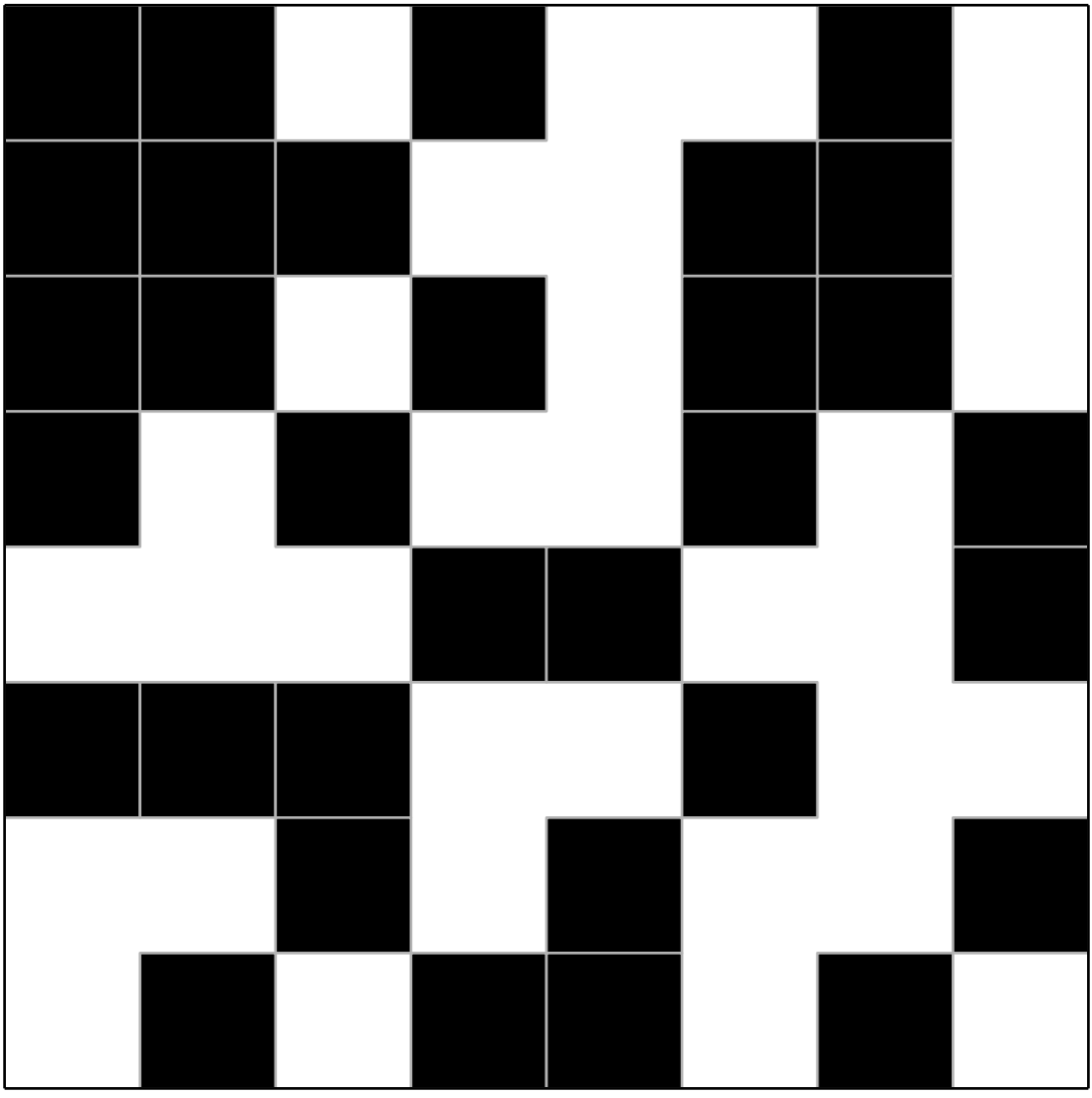
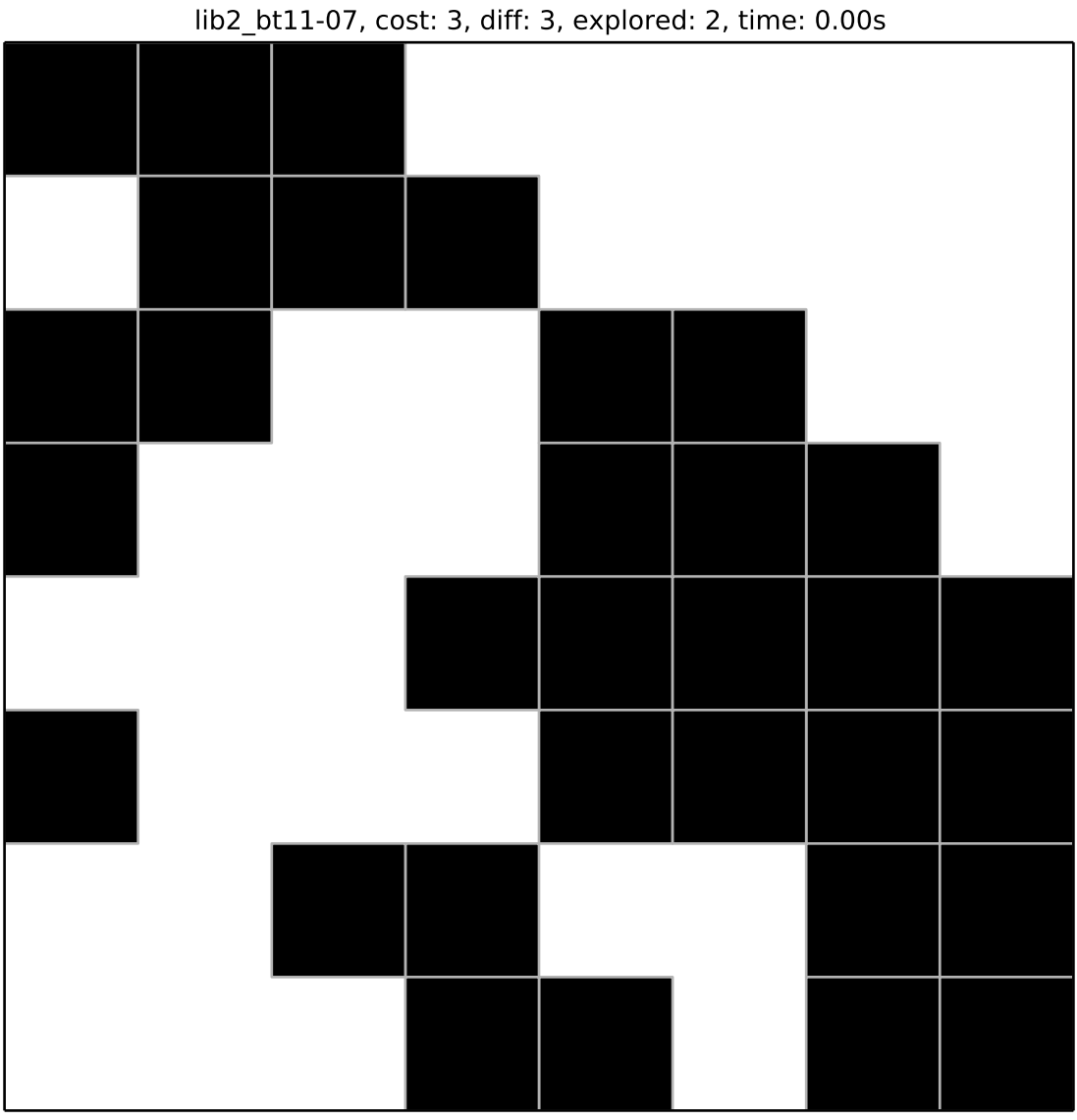
lib2_bt11-07 8x8 (32) con: 3, var: 5

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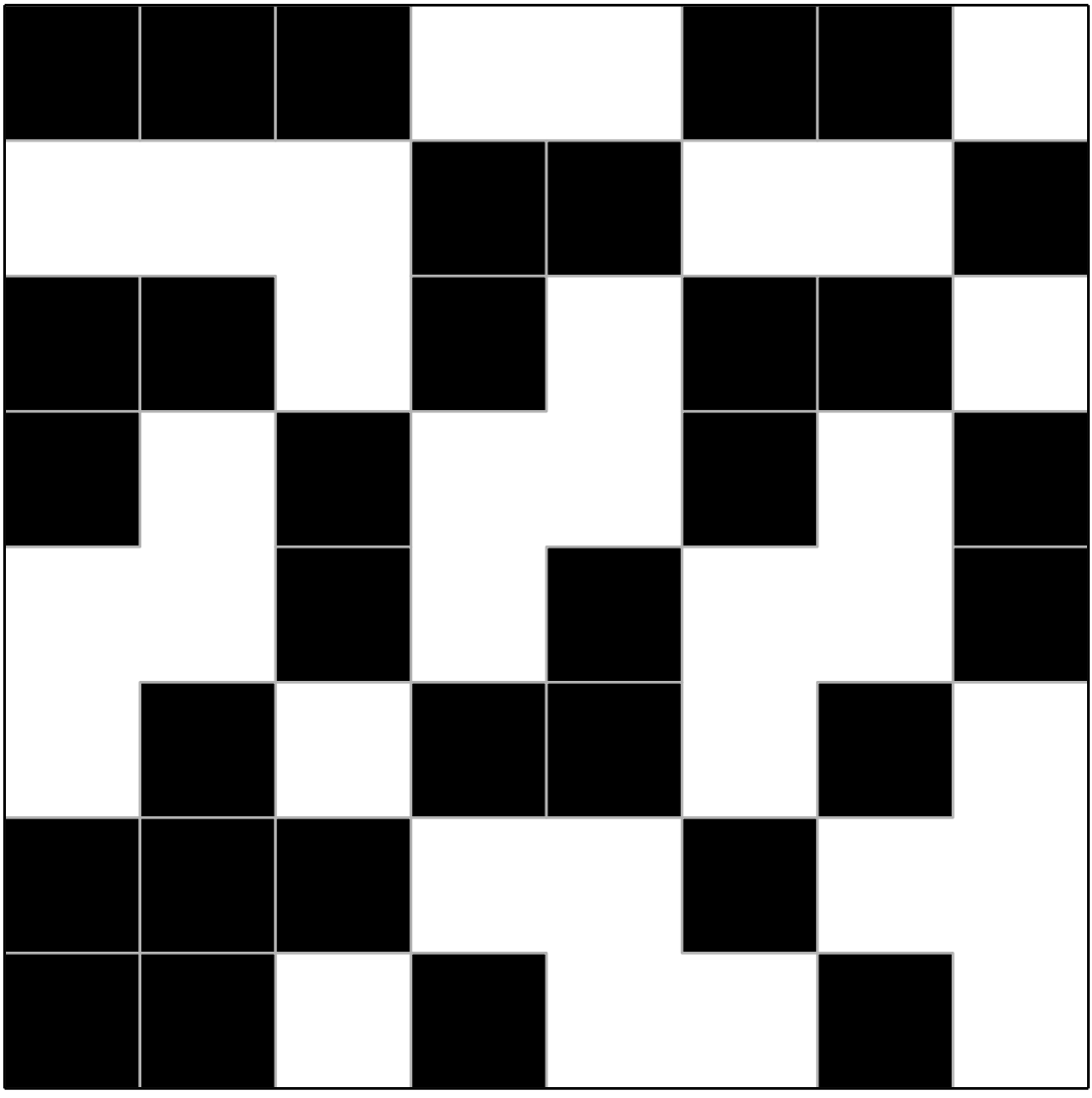

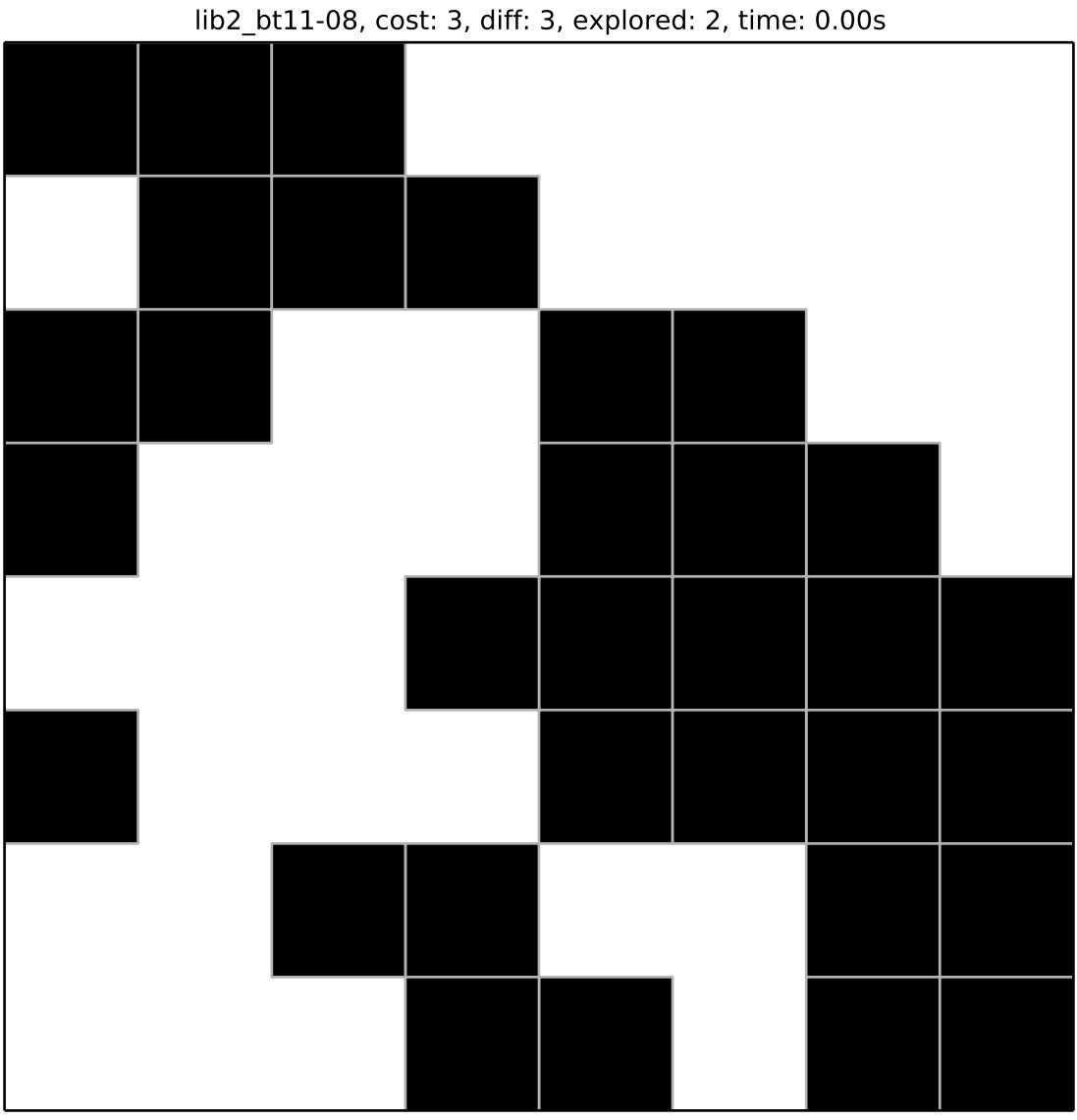
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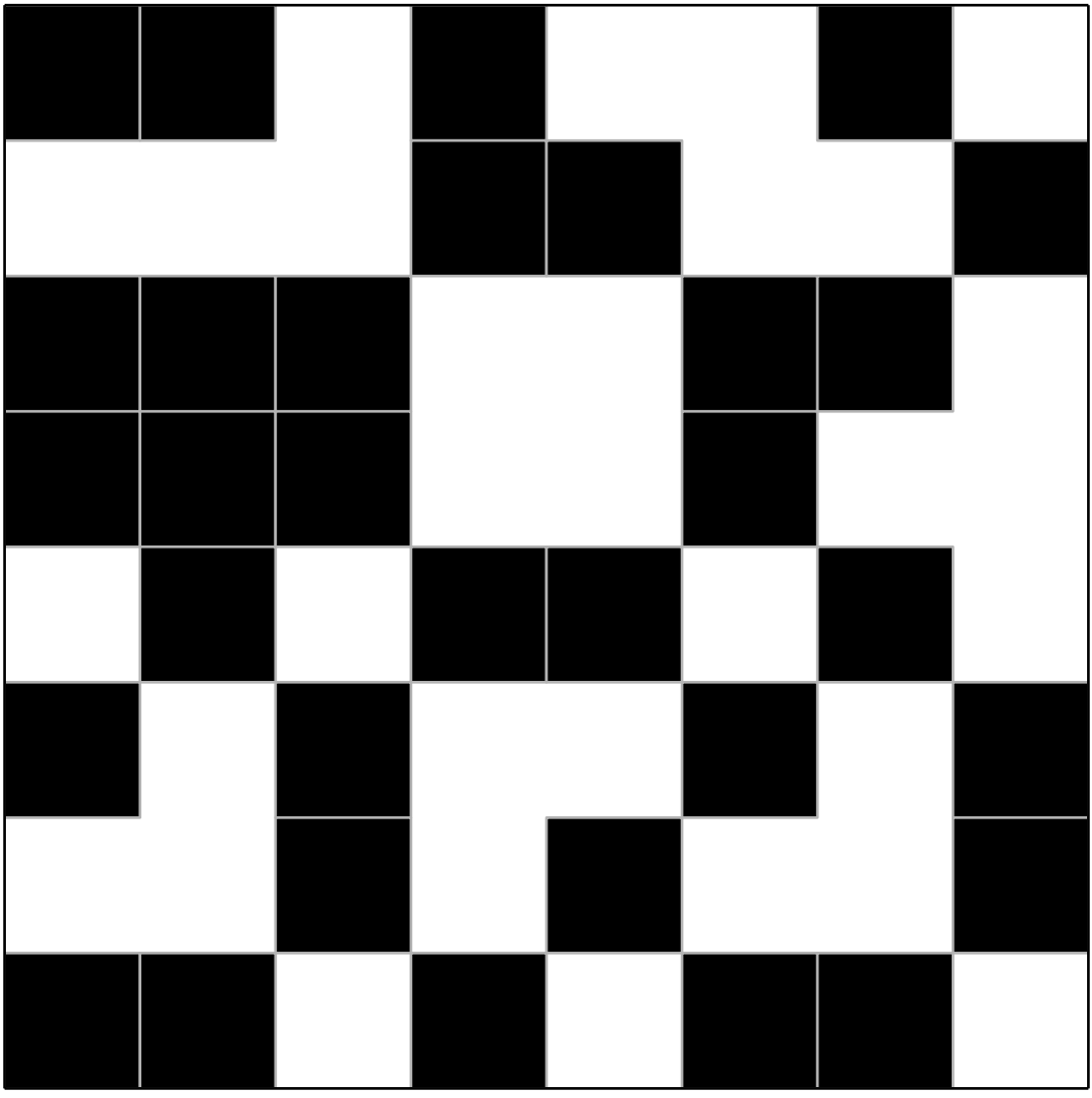
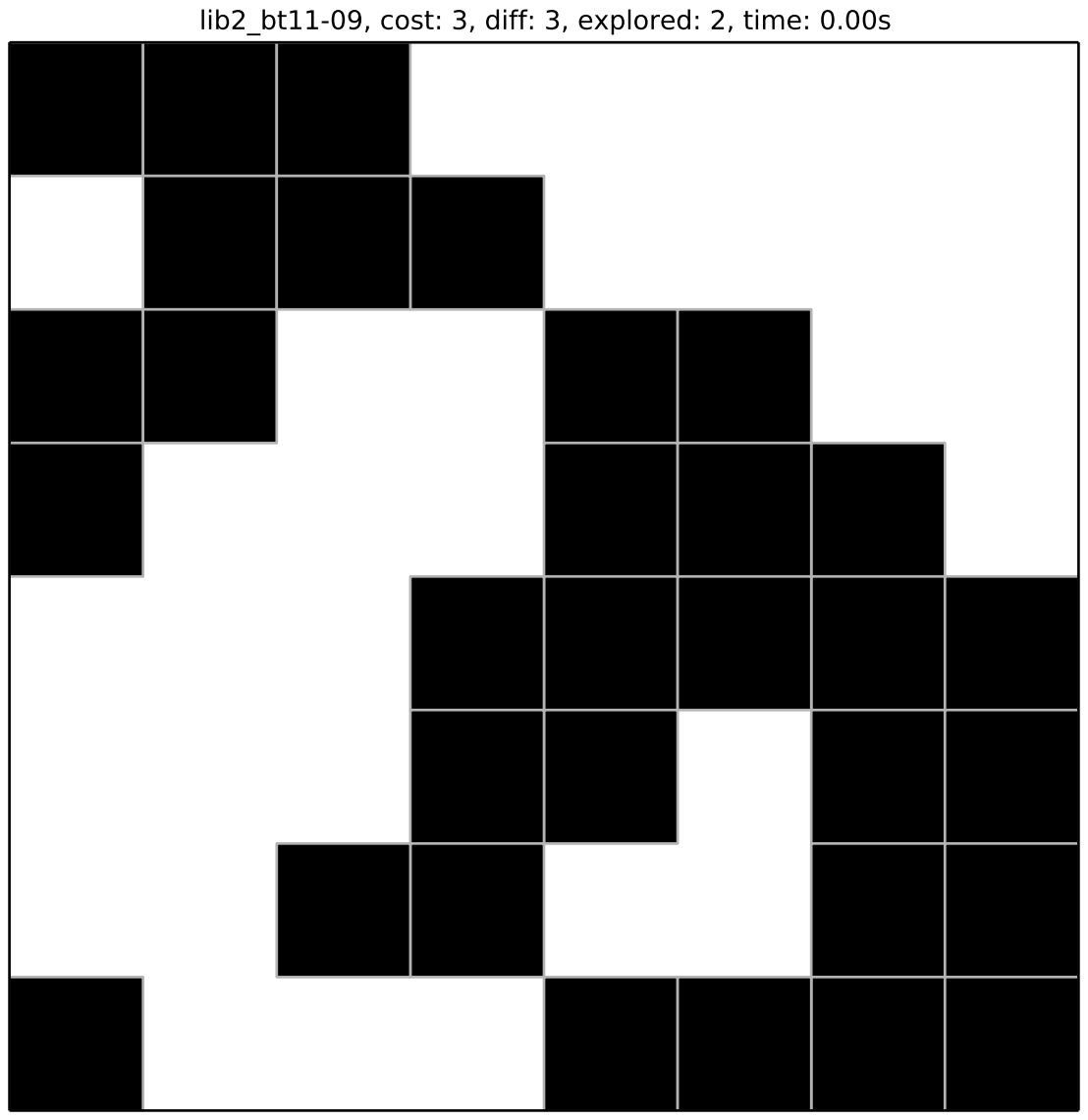
lib2_bt11-09 8x8 (32) con: 3, var: 5

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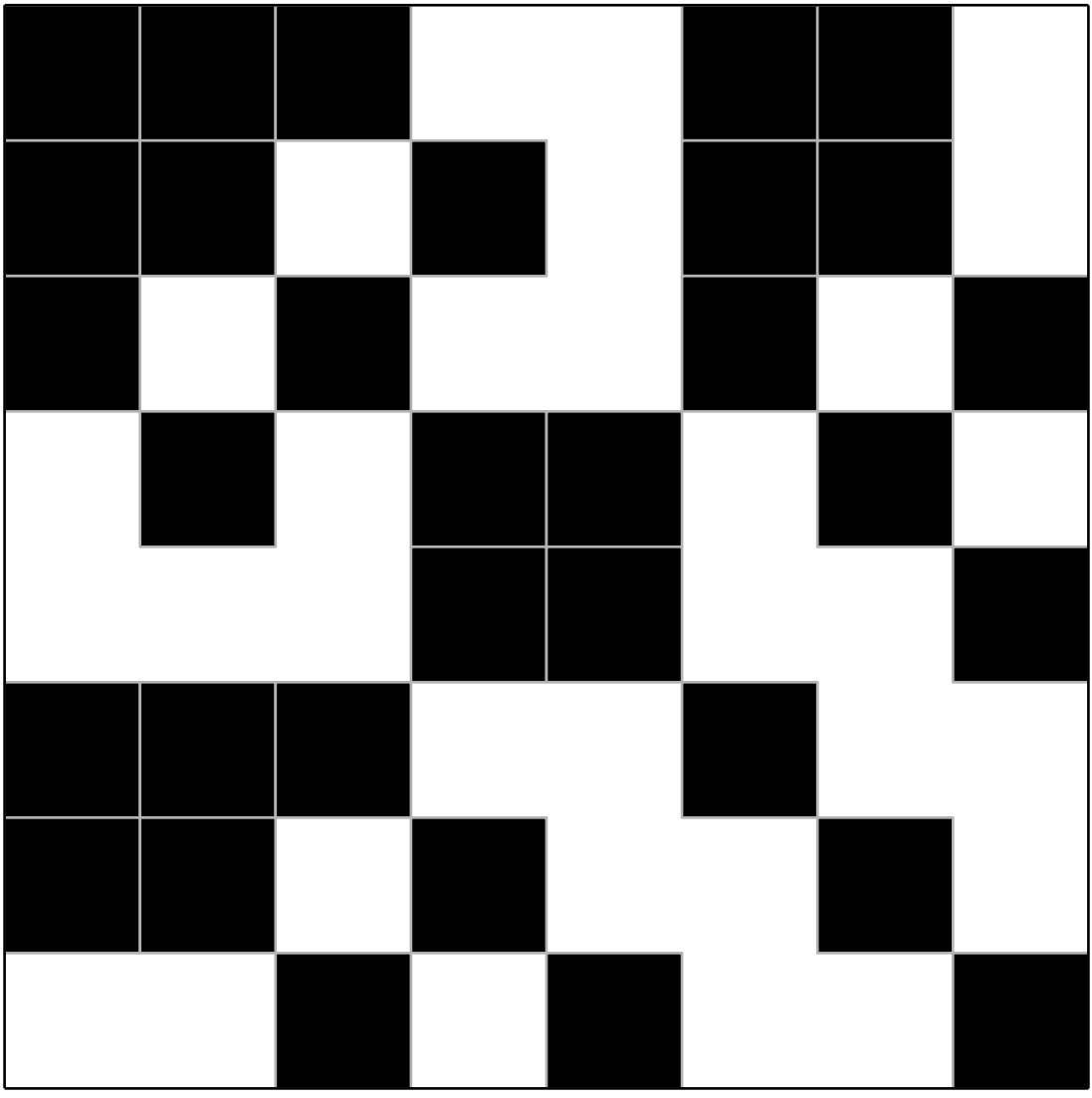
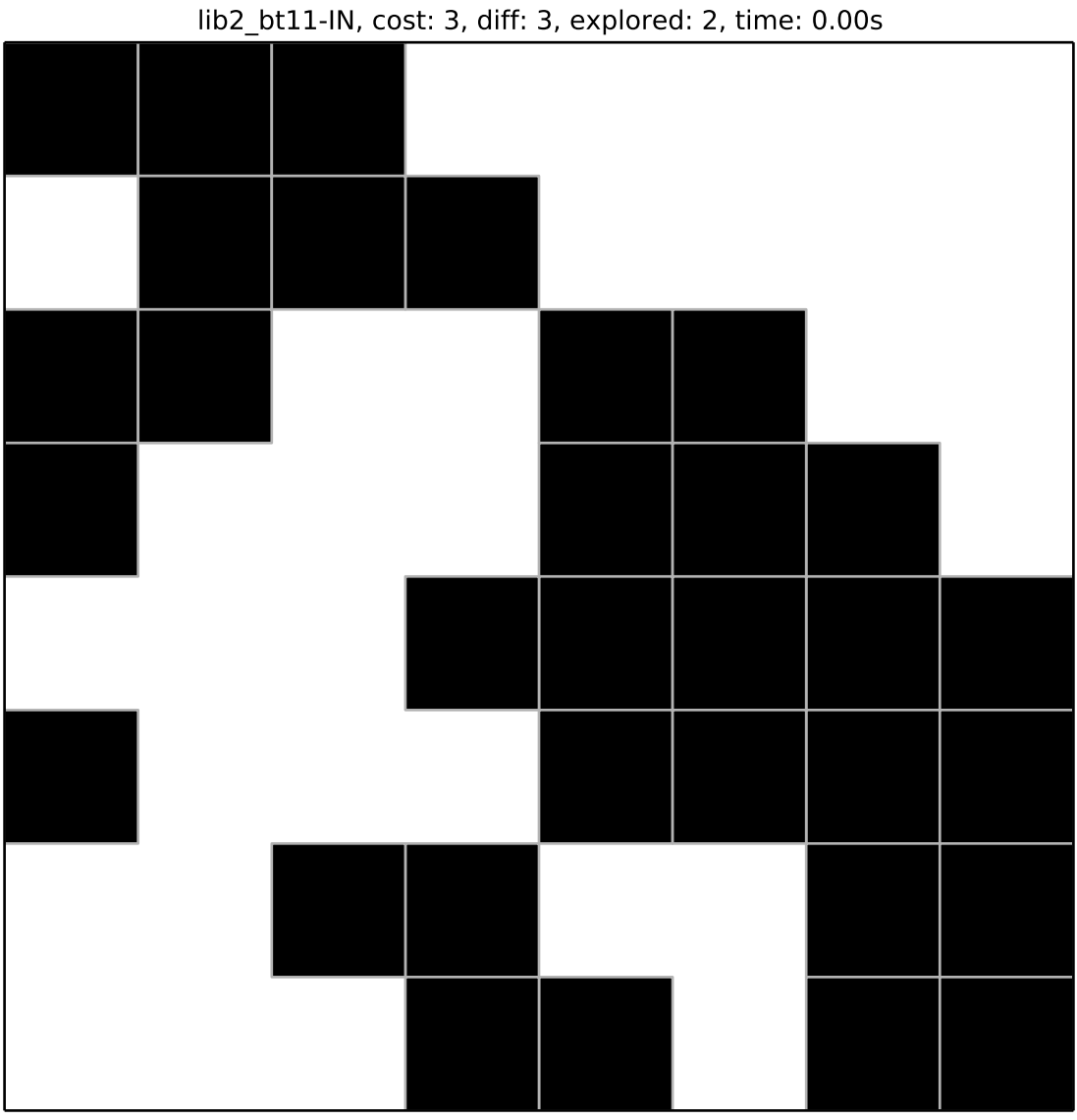
lib2_bt11-IN 8x8 (32) con: 3, var: 5

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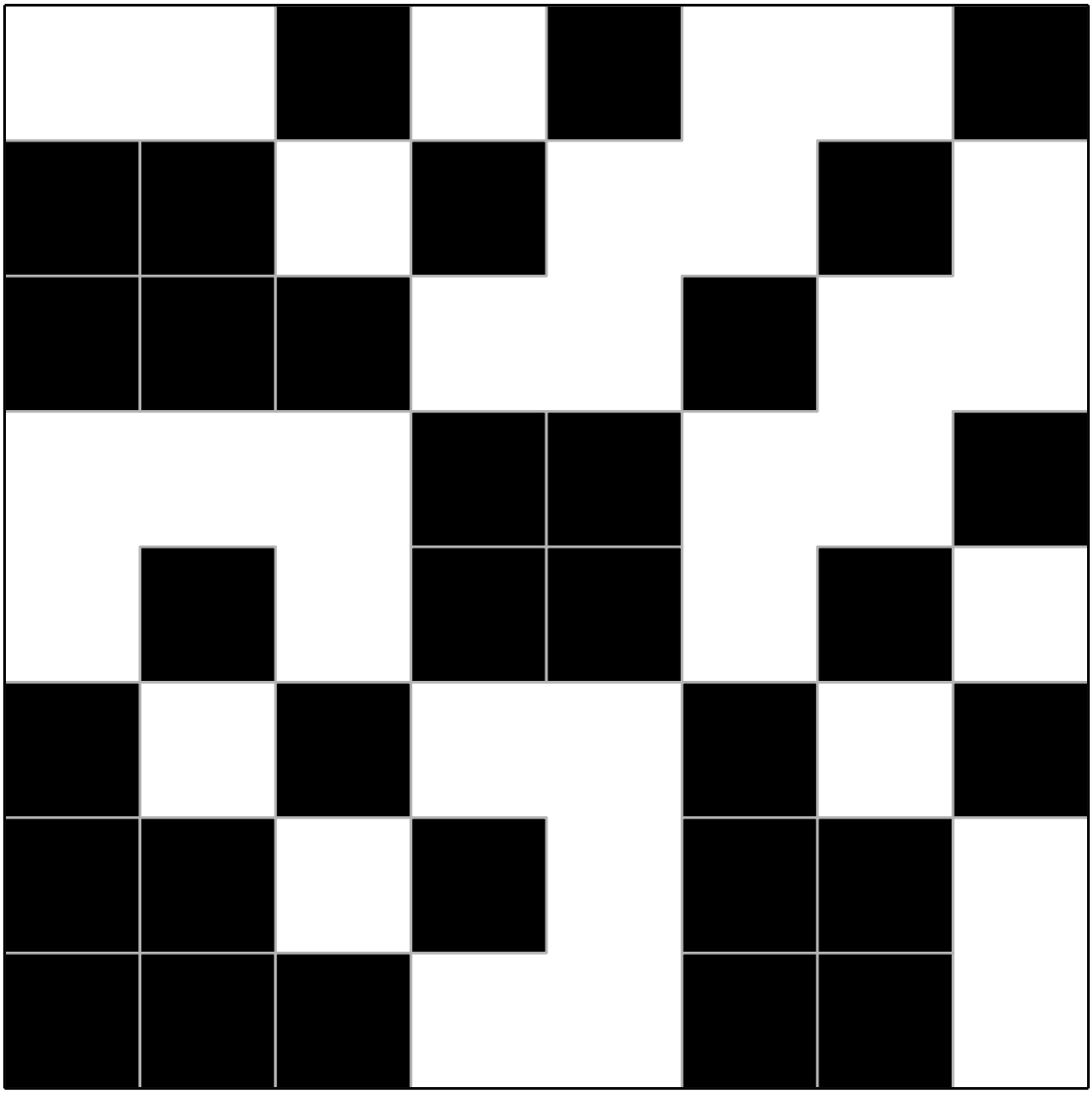
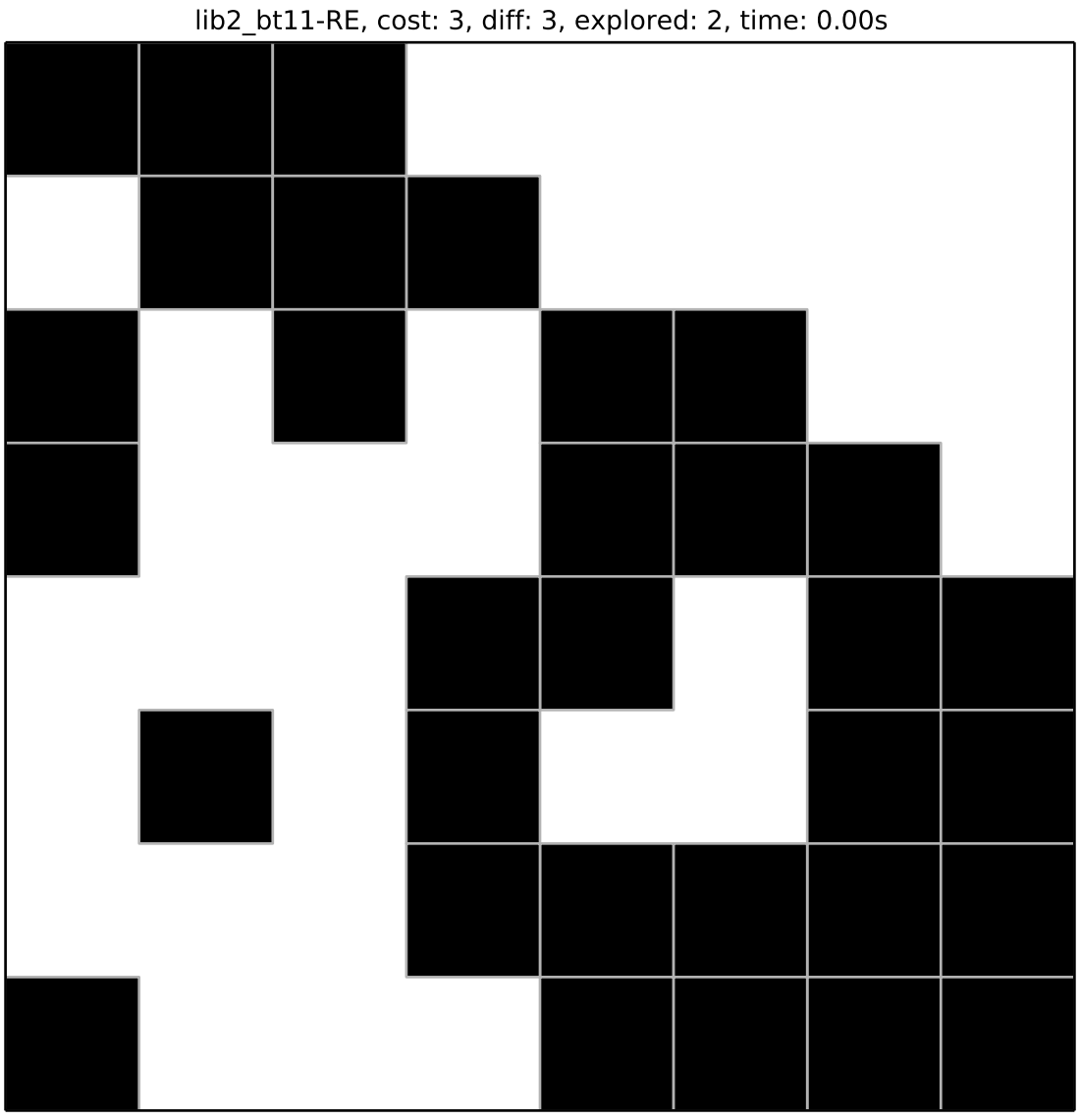
lib2_bt11-RE 8x8 (32) con: 3, var: 5

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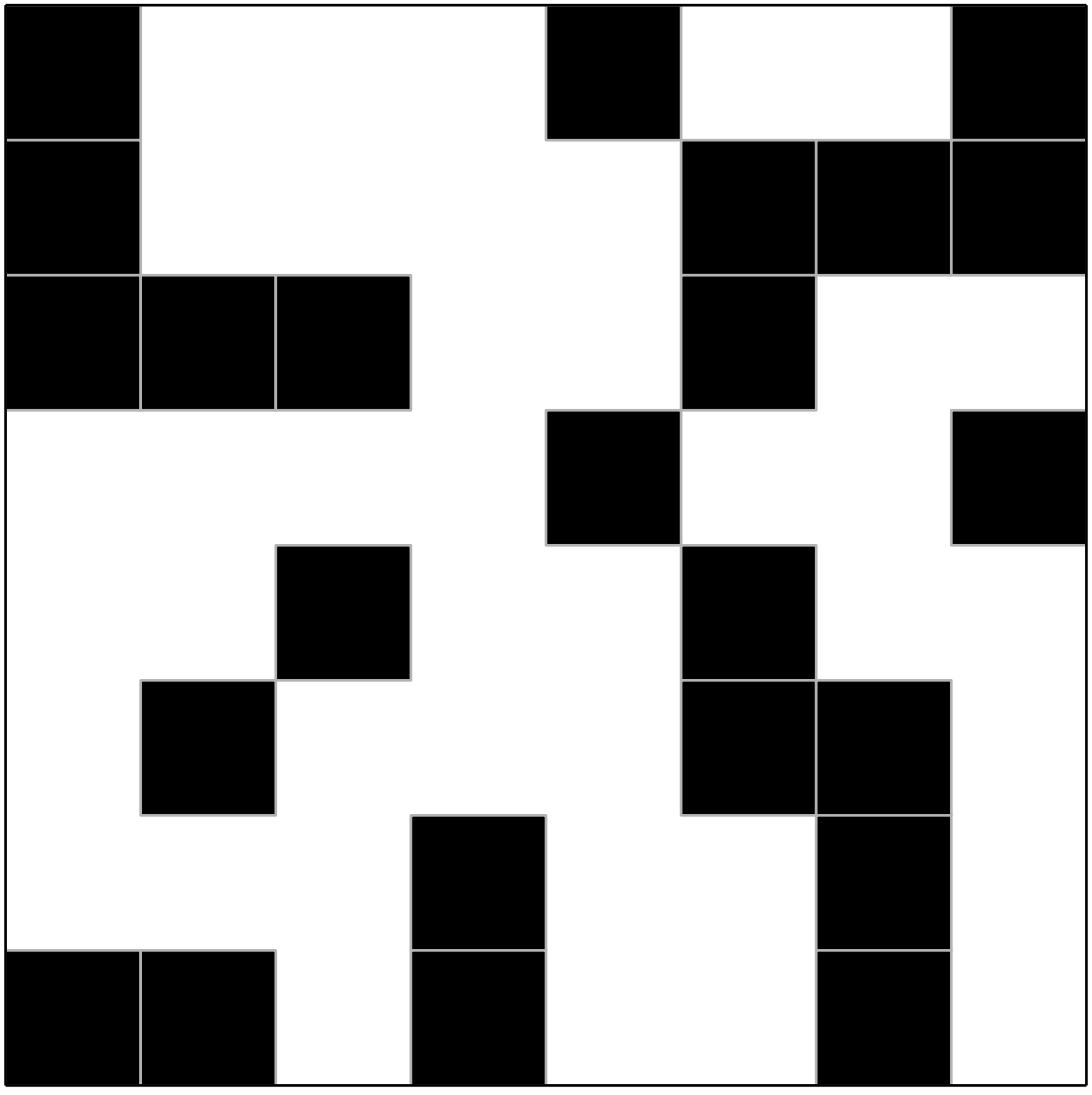
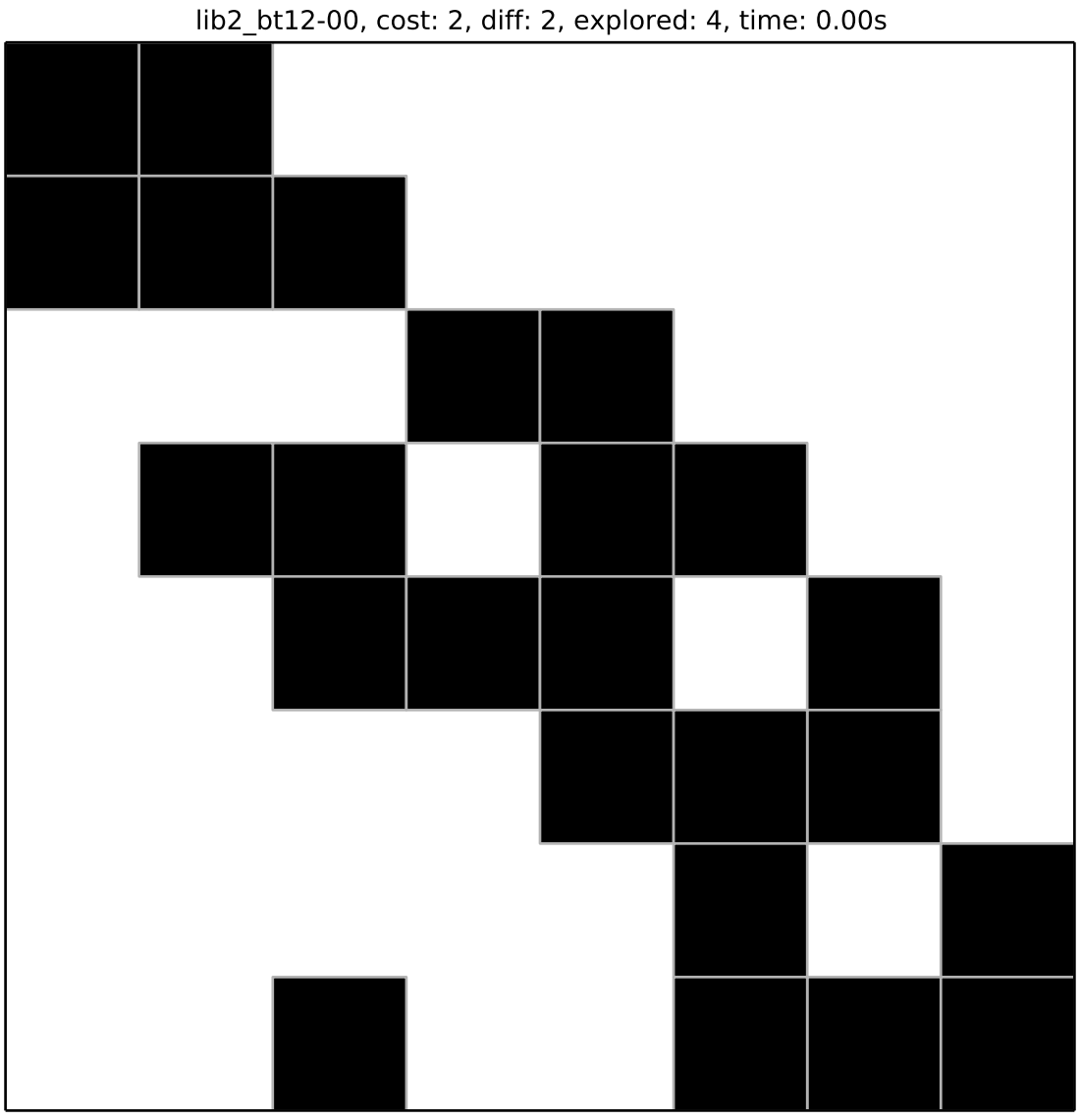
lib2_bt12-00 8x8 (24) con: 3, var: 5

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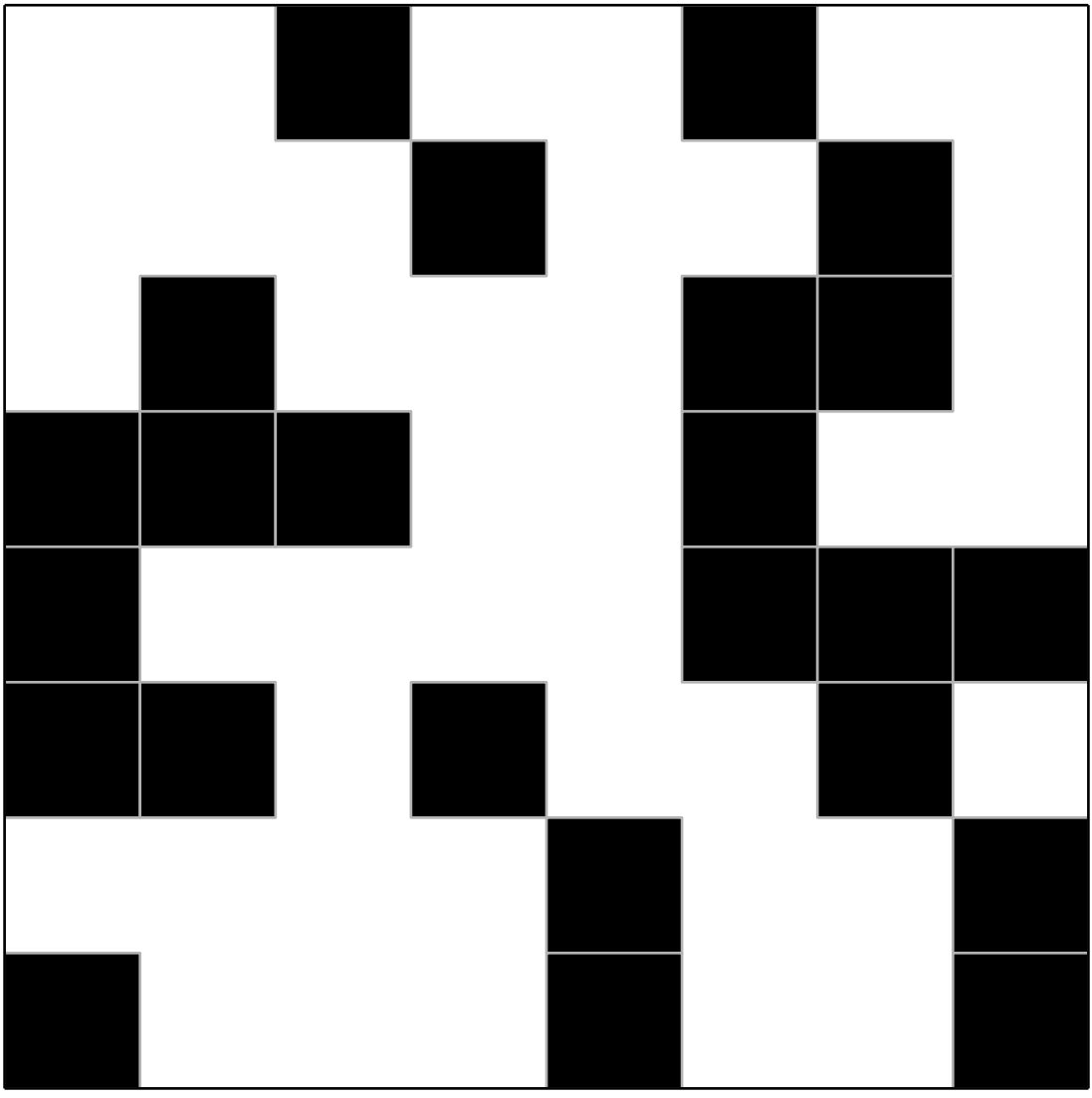
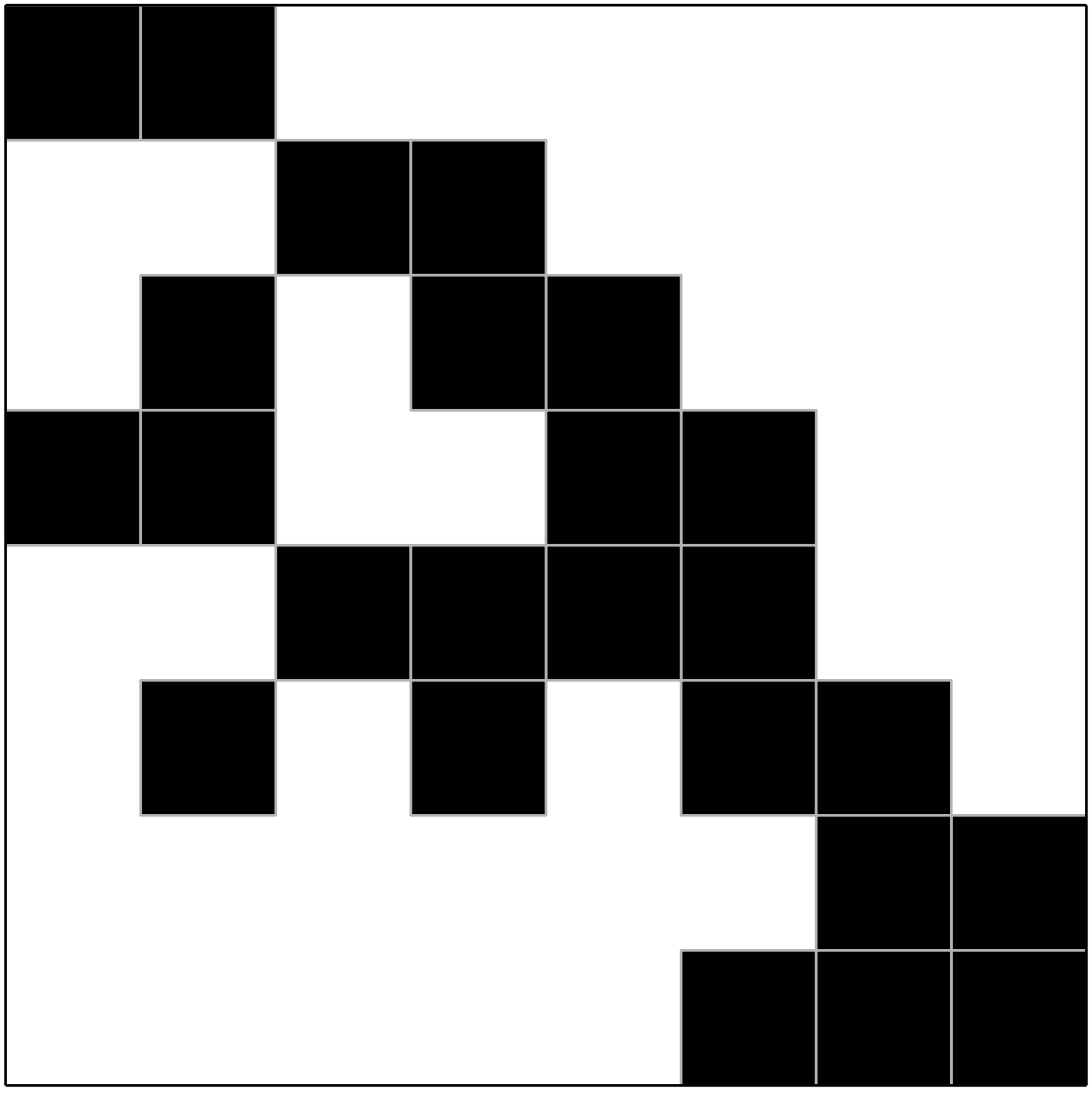
lib2_bt12-01 8x8 (24) con: 3, var: 5

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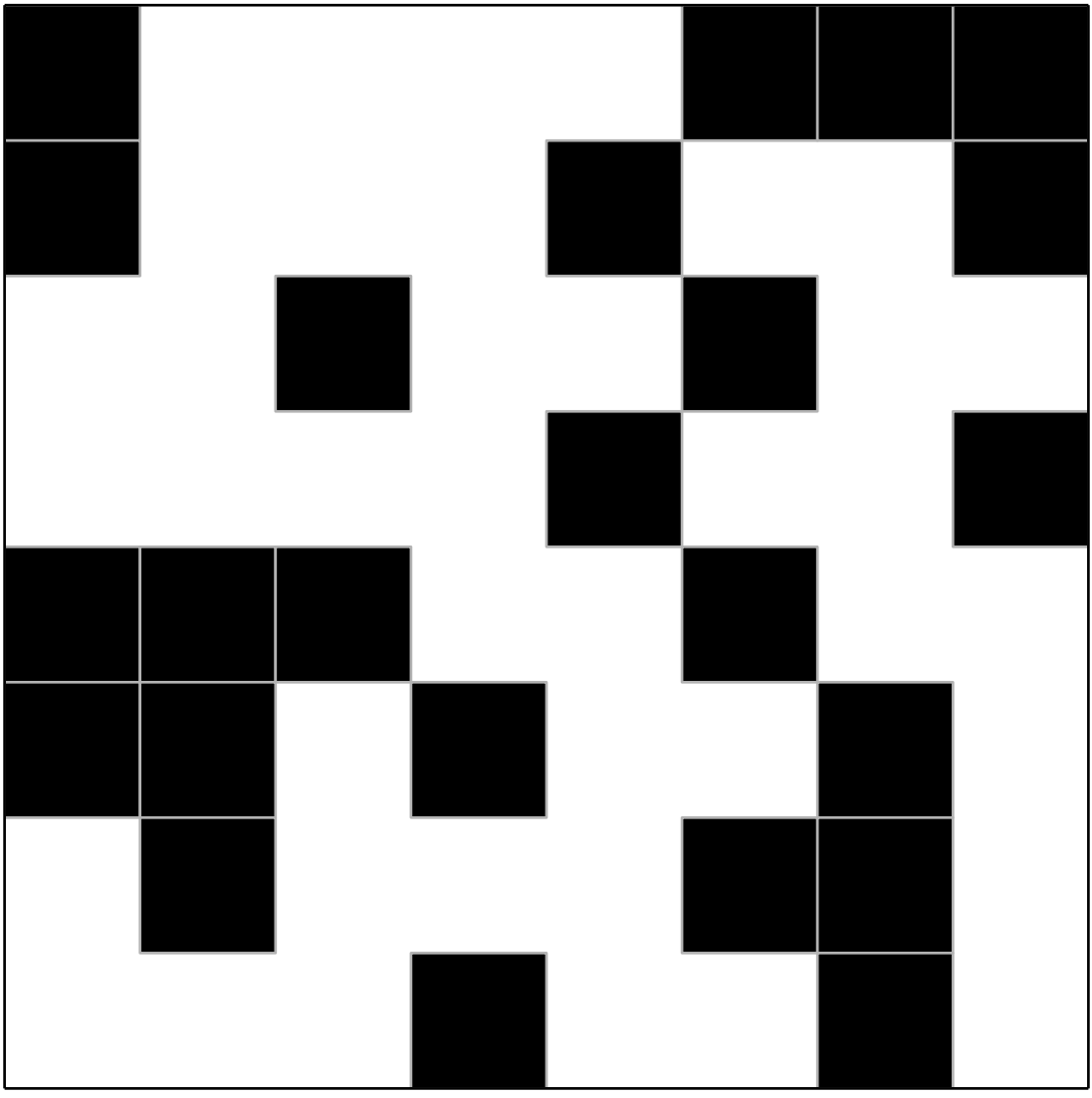
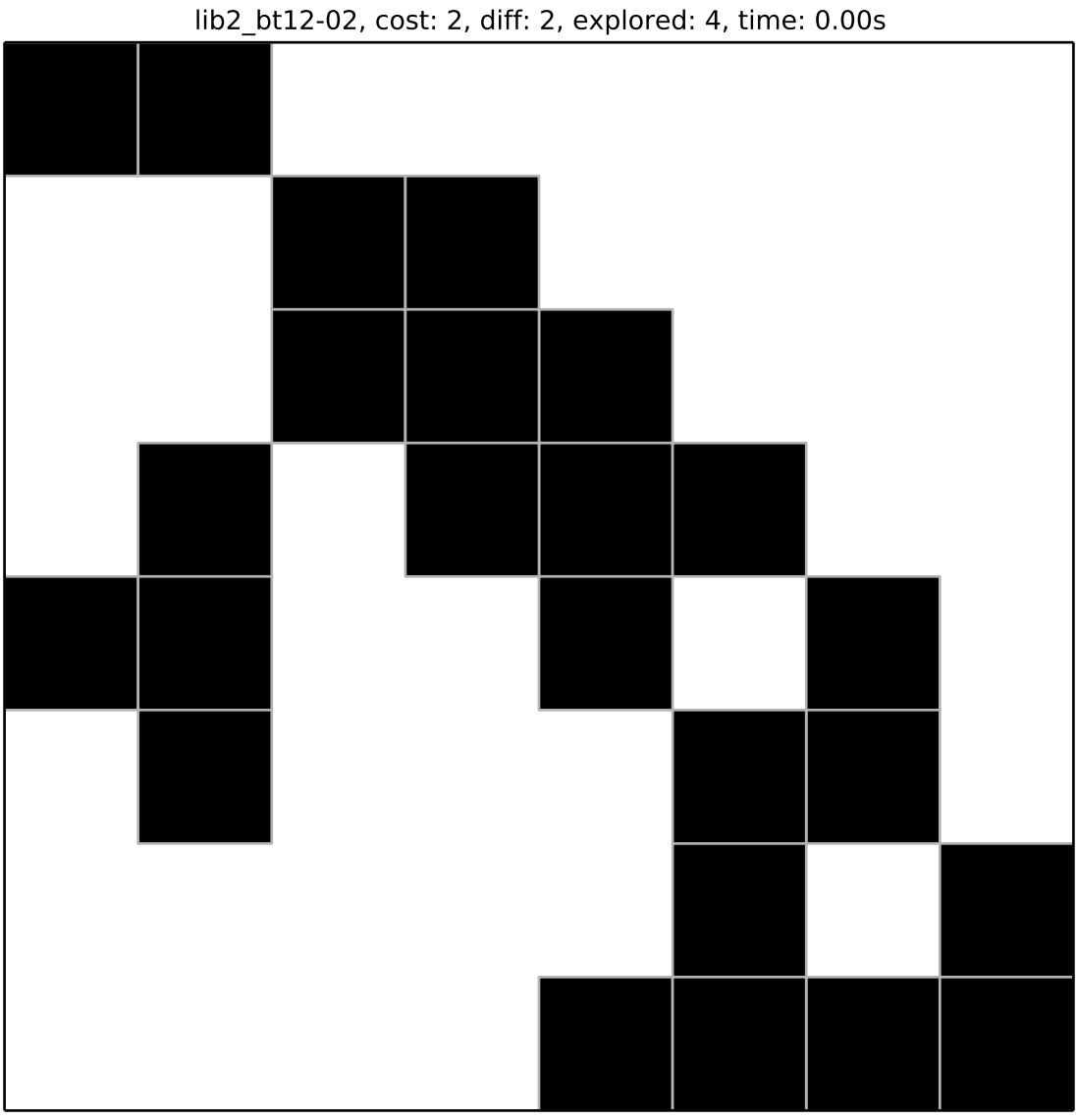
lib2_bt12-02 8x8 (24) con: 3, var: 5

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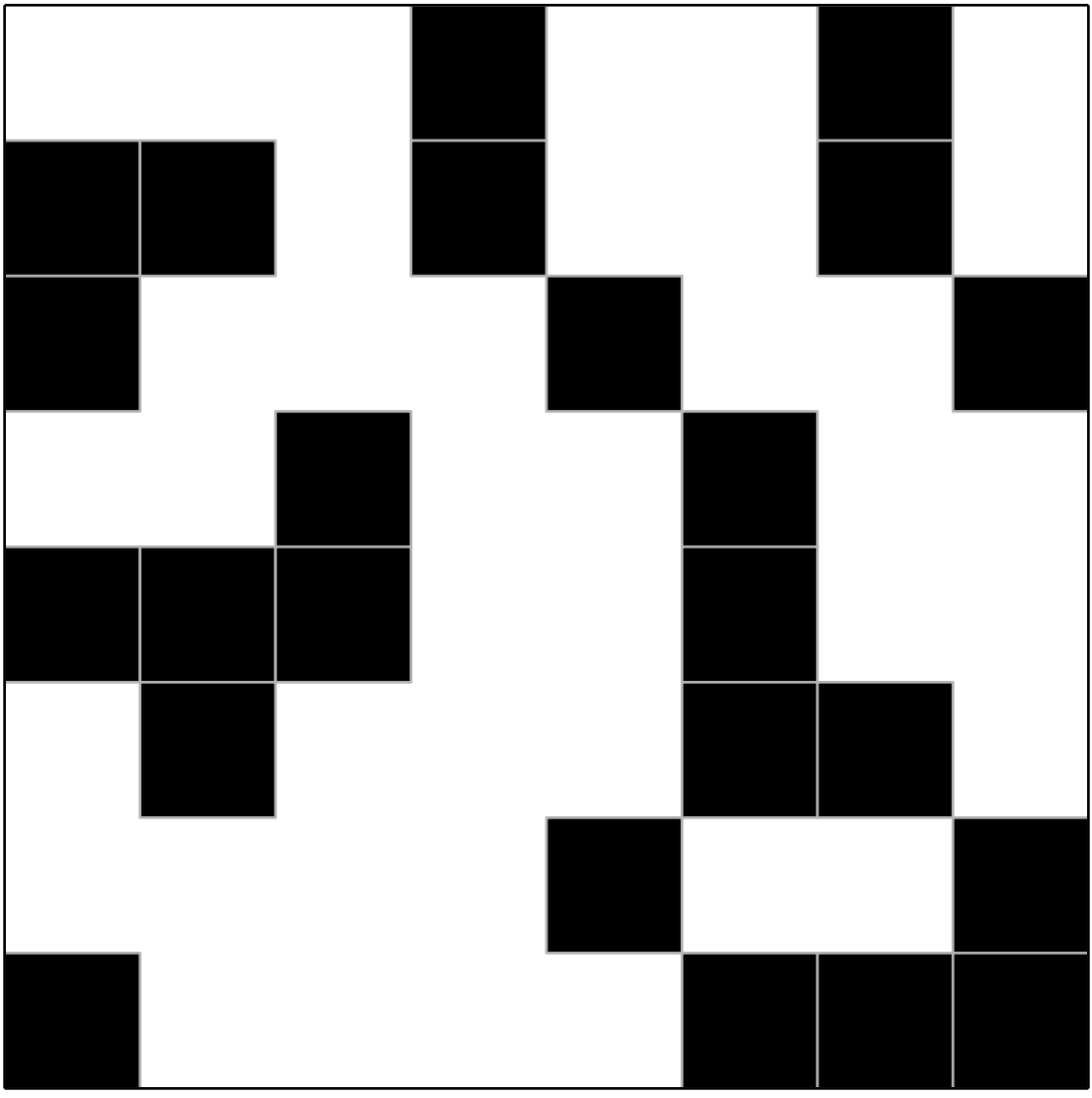
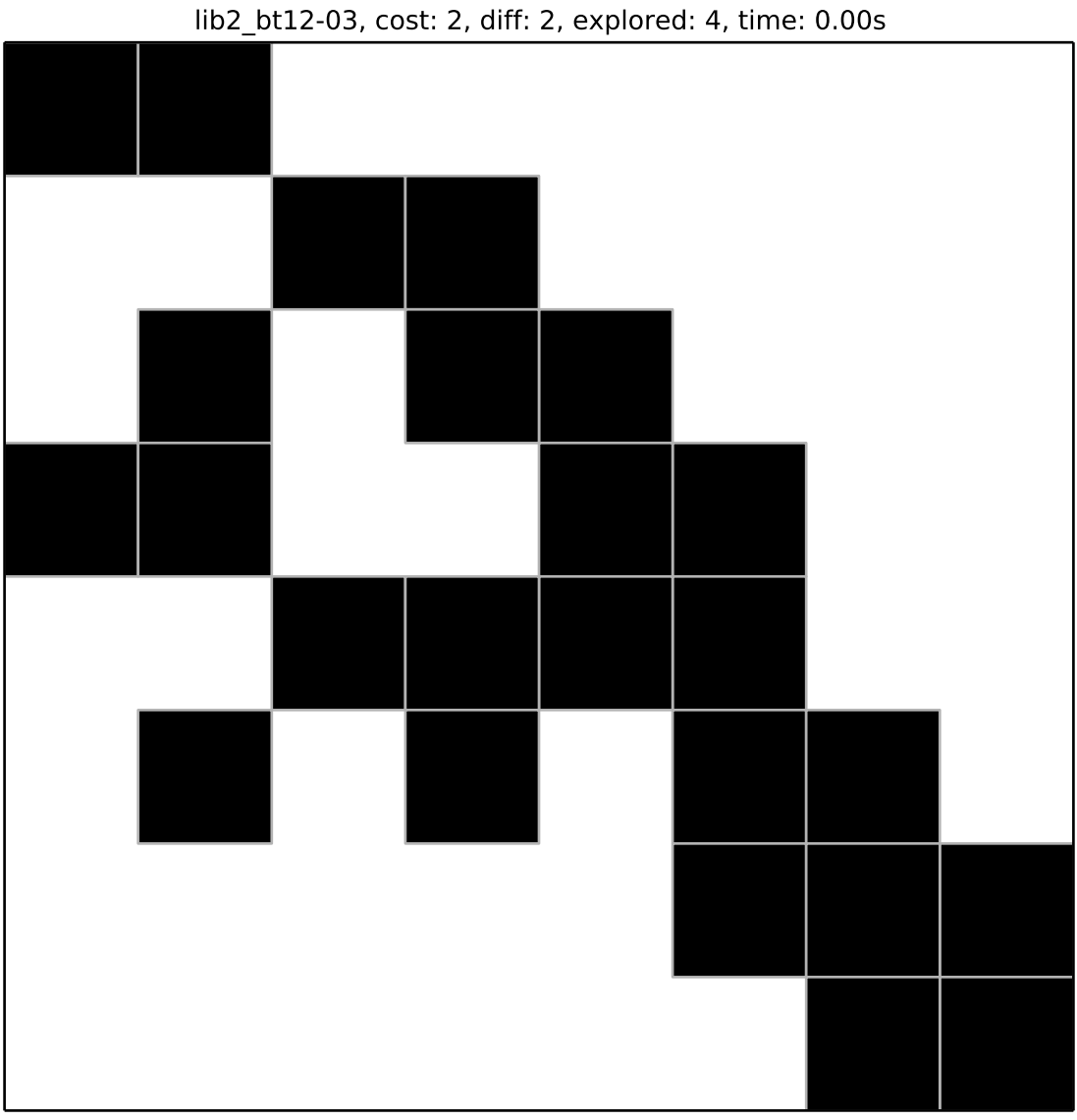
lib2_bt12-03 8x8 (24) con: 3, var: 5

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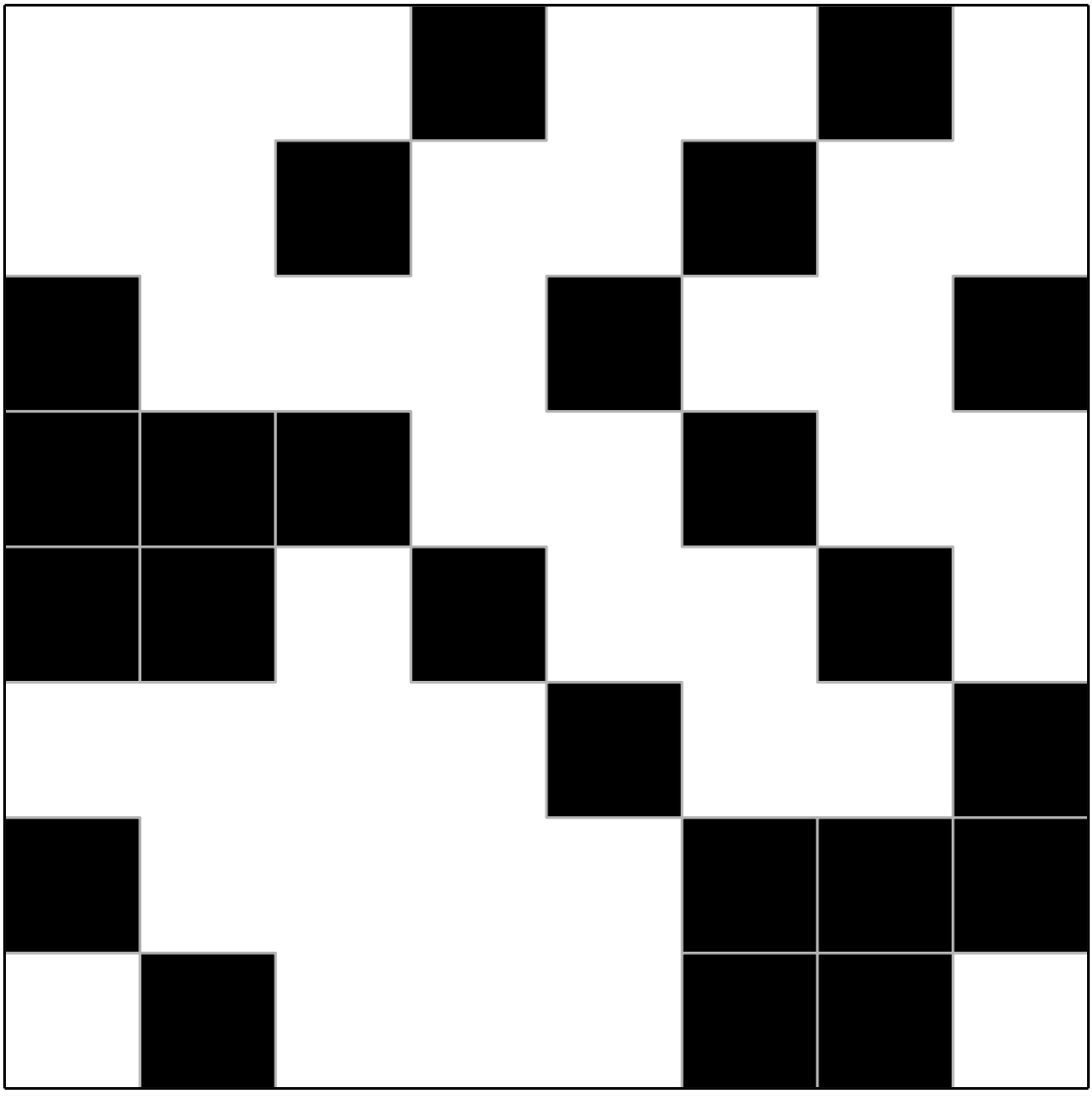
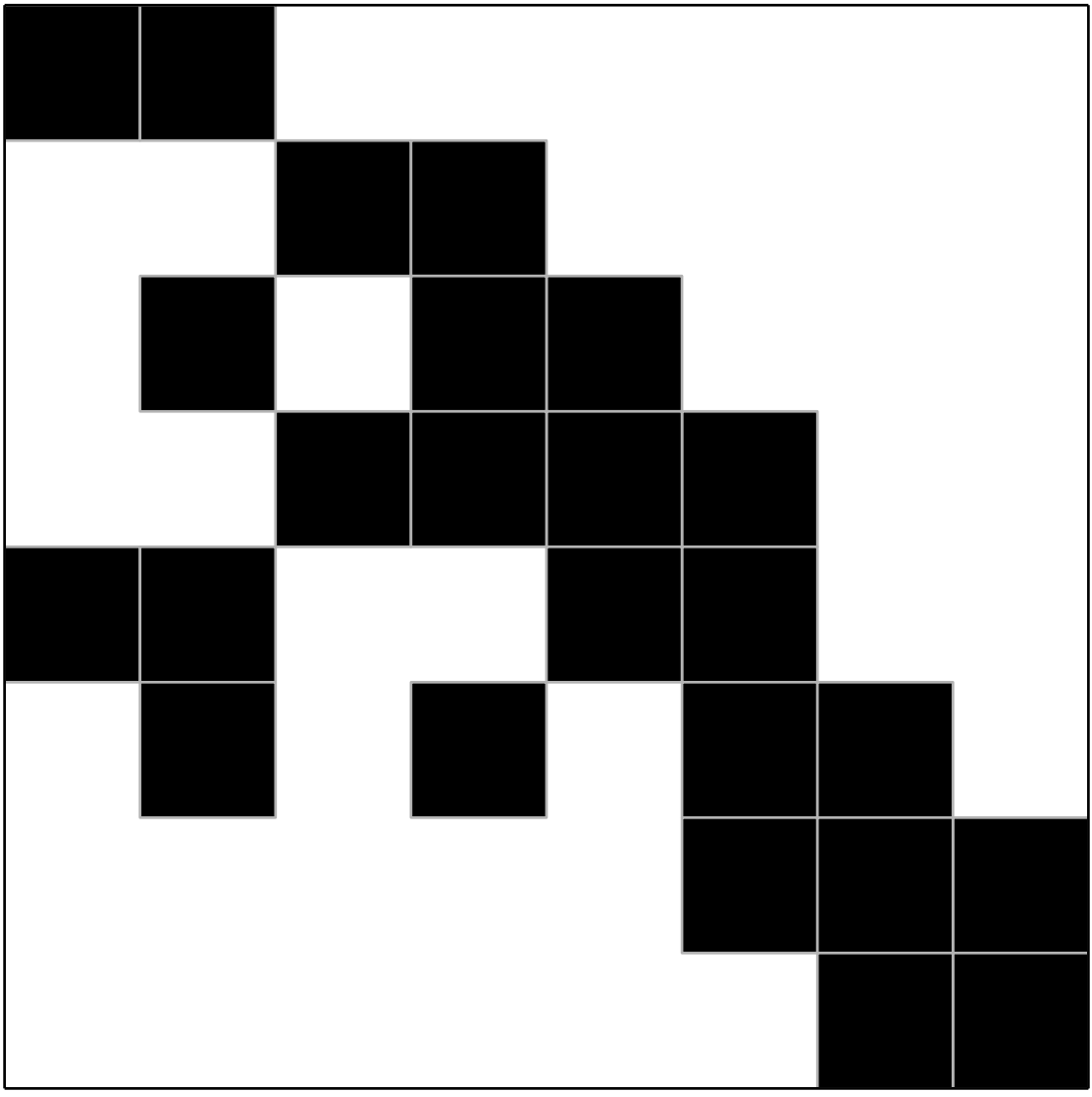
lib2_bt12-04 8x8 (24) con: 3, var: 5

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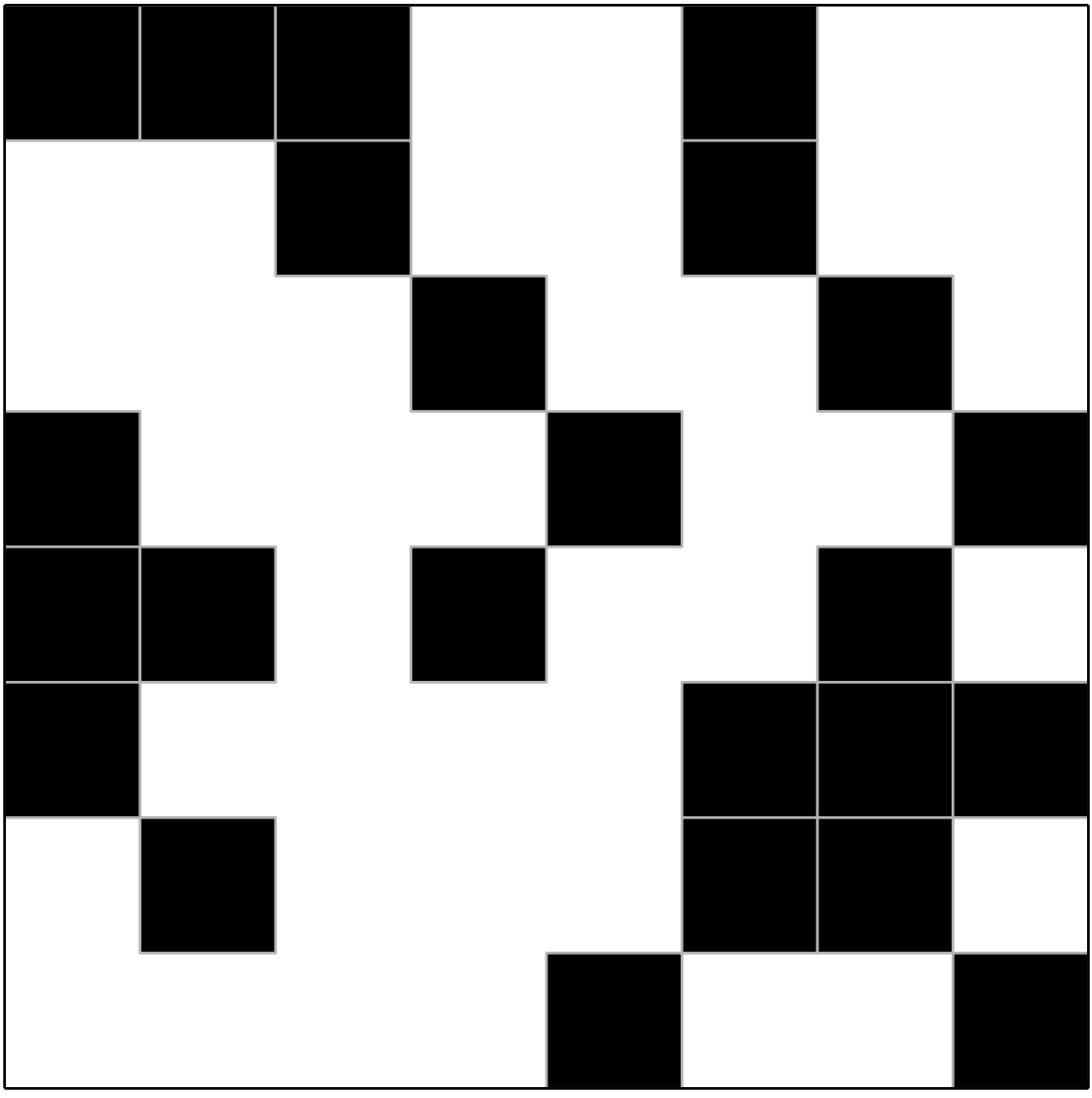
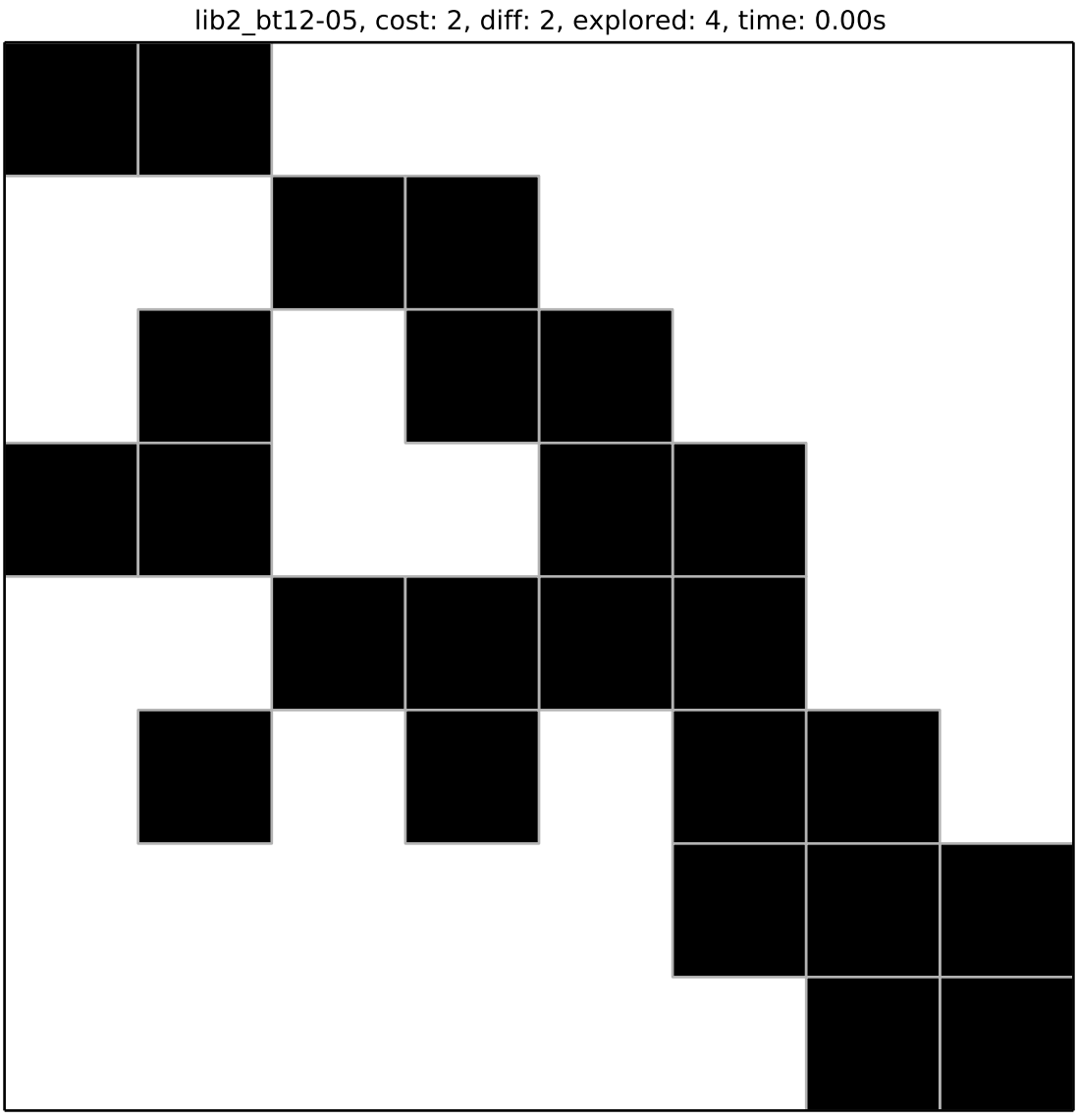
lib2_bt12-05 8x8 (24) con: 3, var: 5

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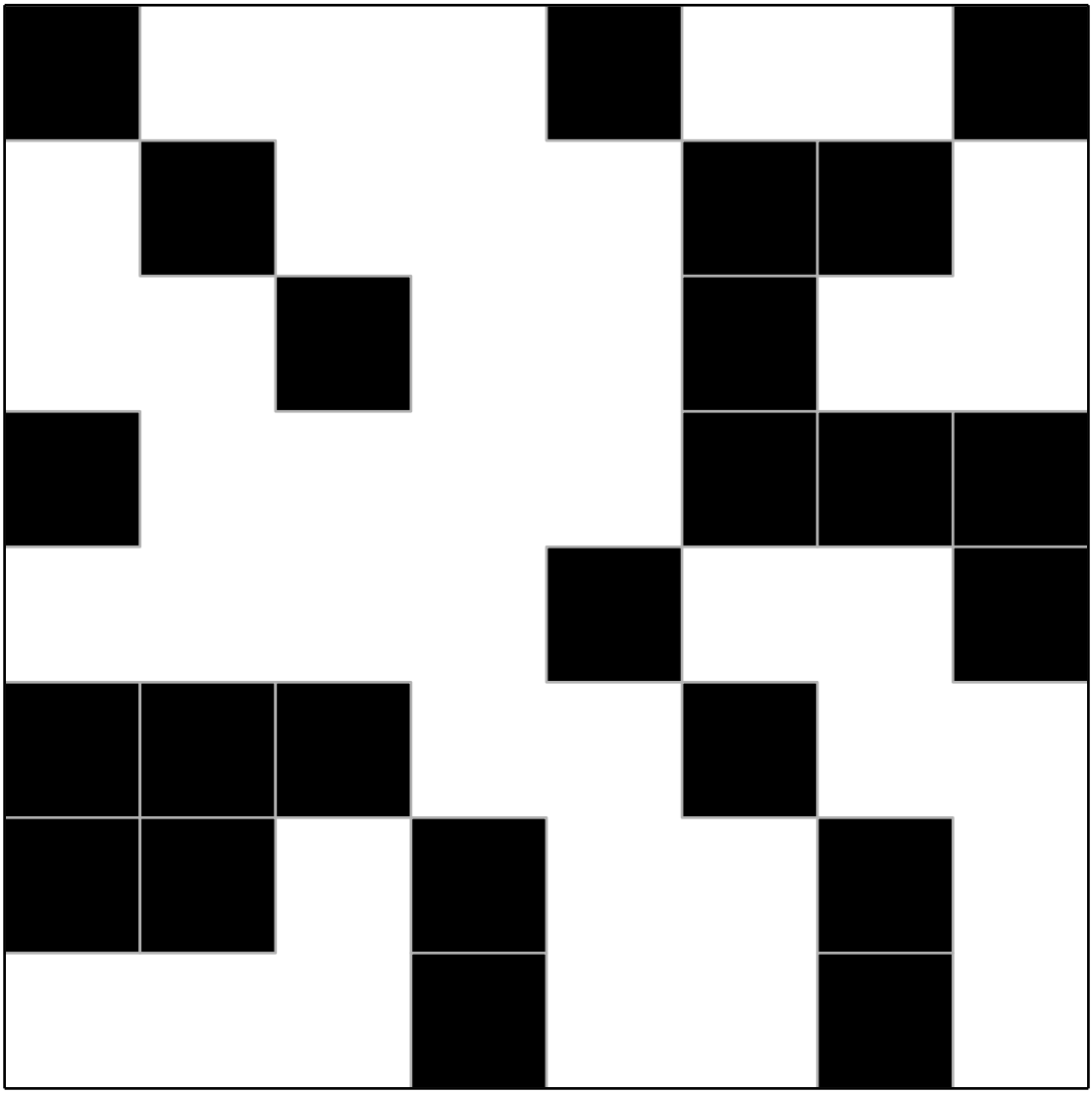
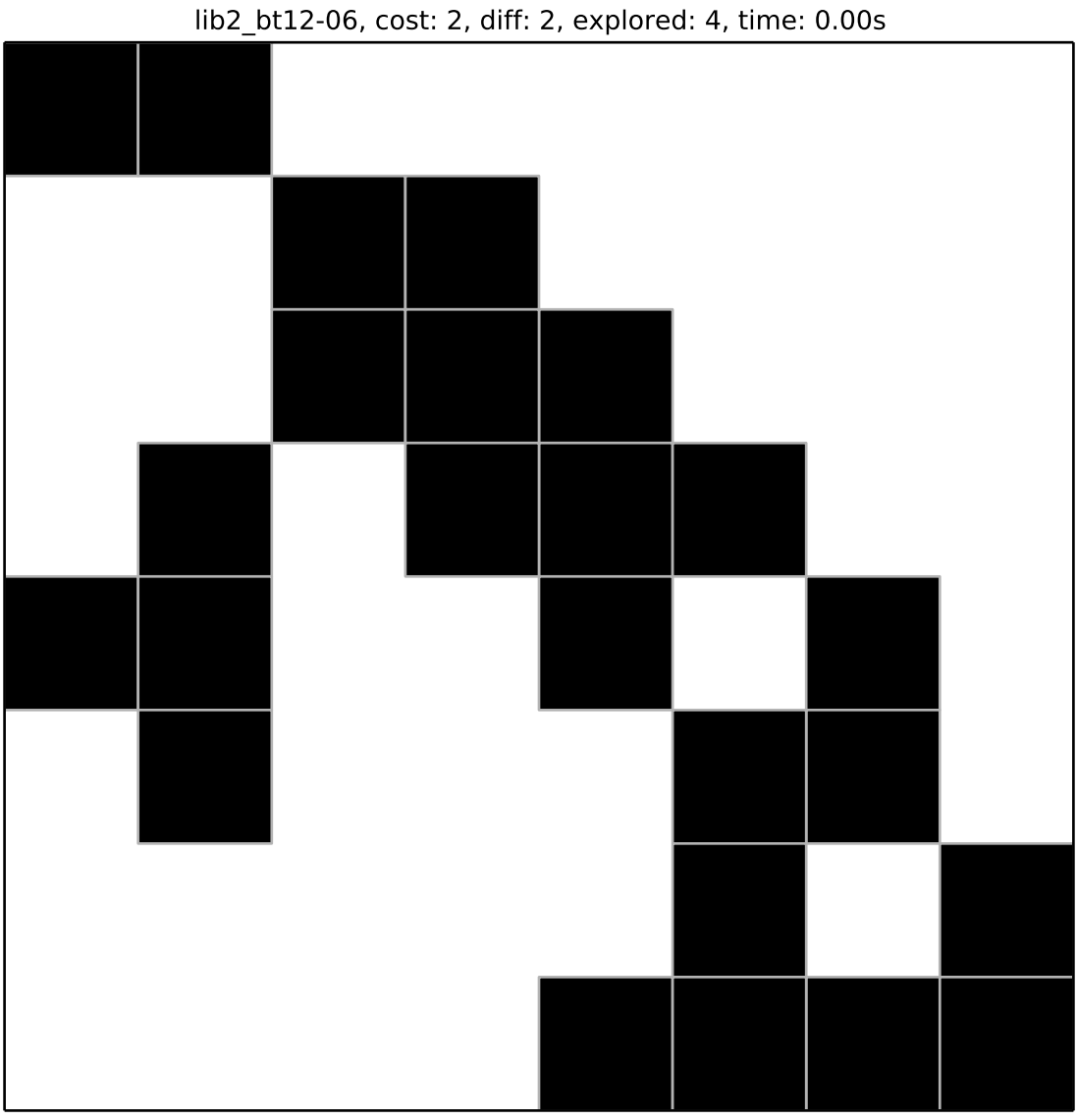
lib2_bt12-06 8x8 (24) con: 3, var: 5

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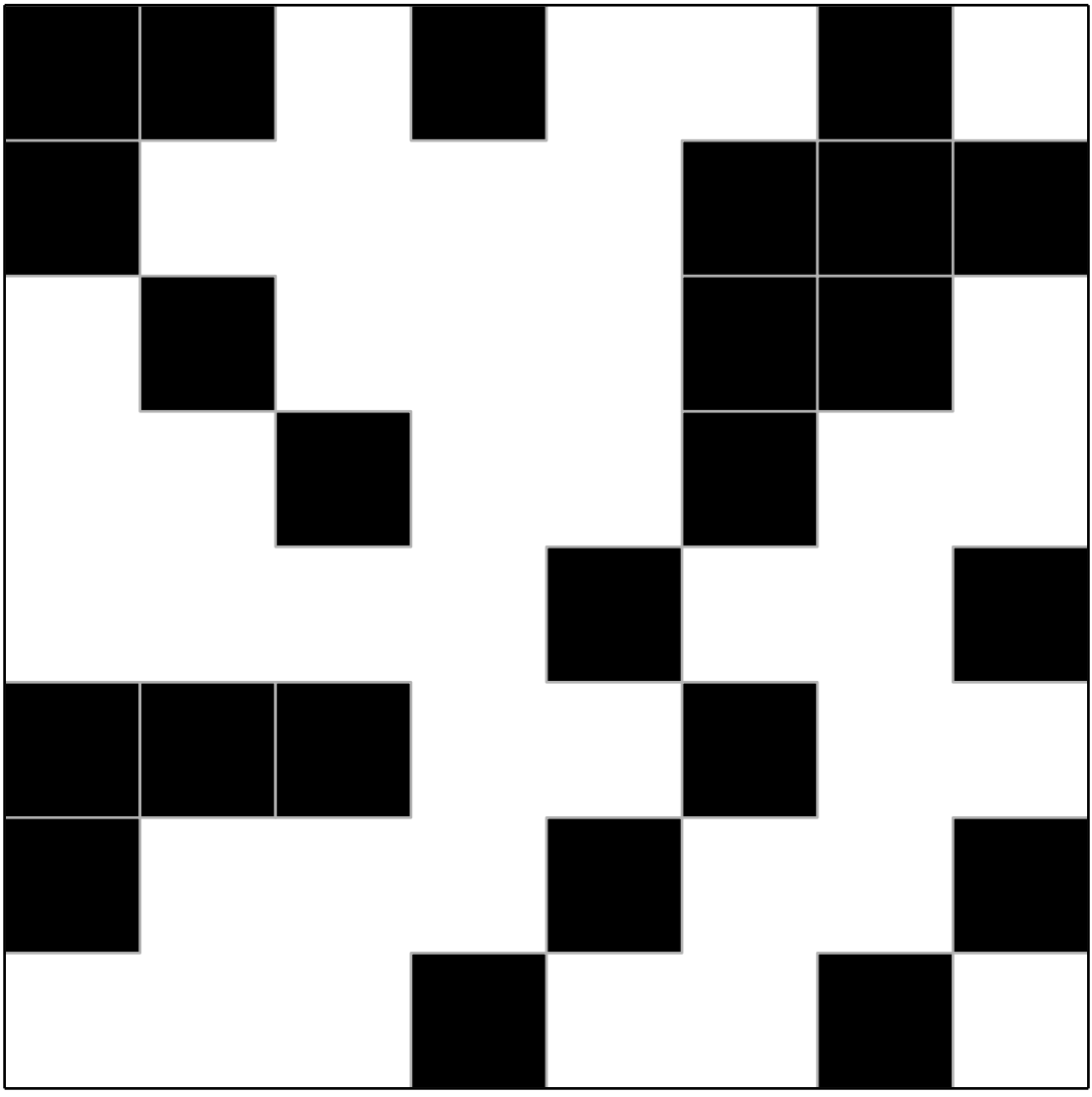
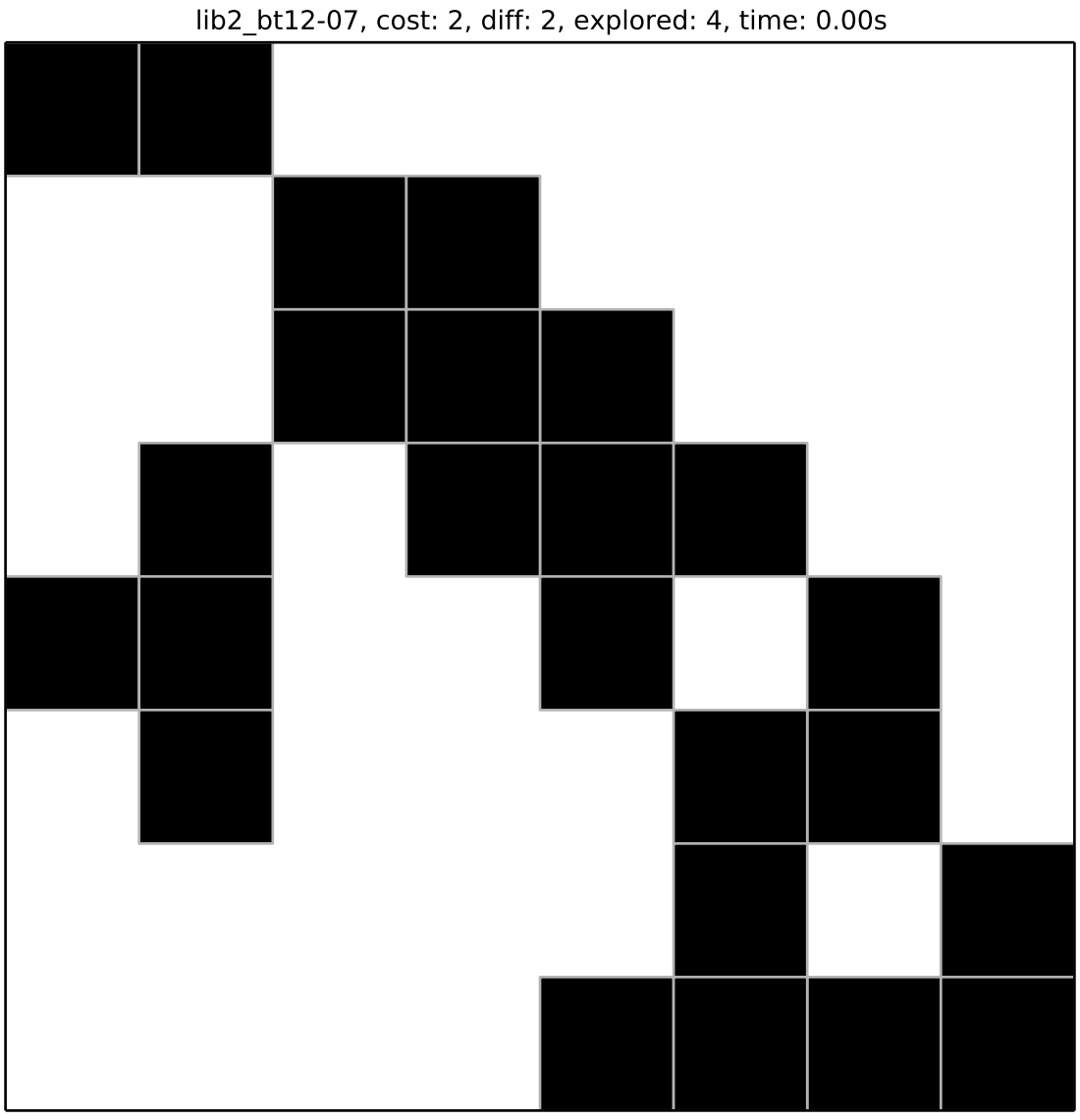
lib2_bt12-07 8x8 (24) con: 3, var: 5

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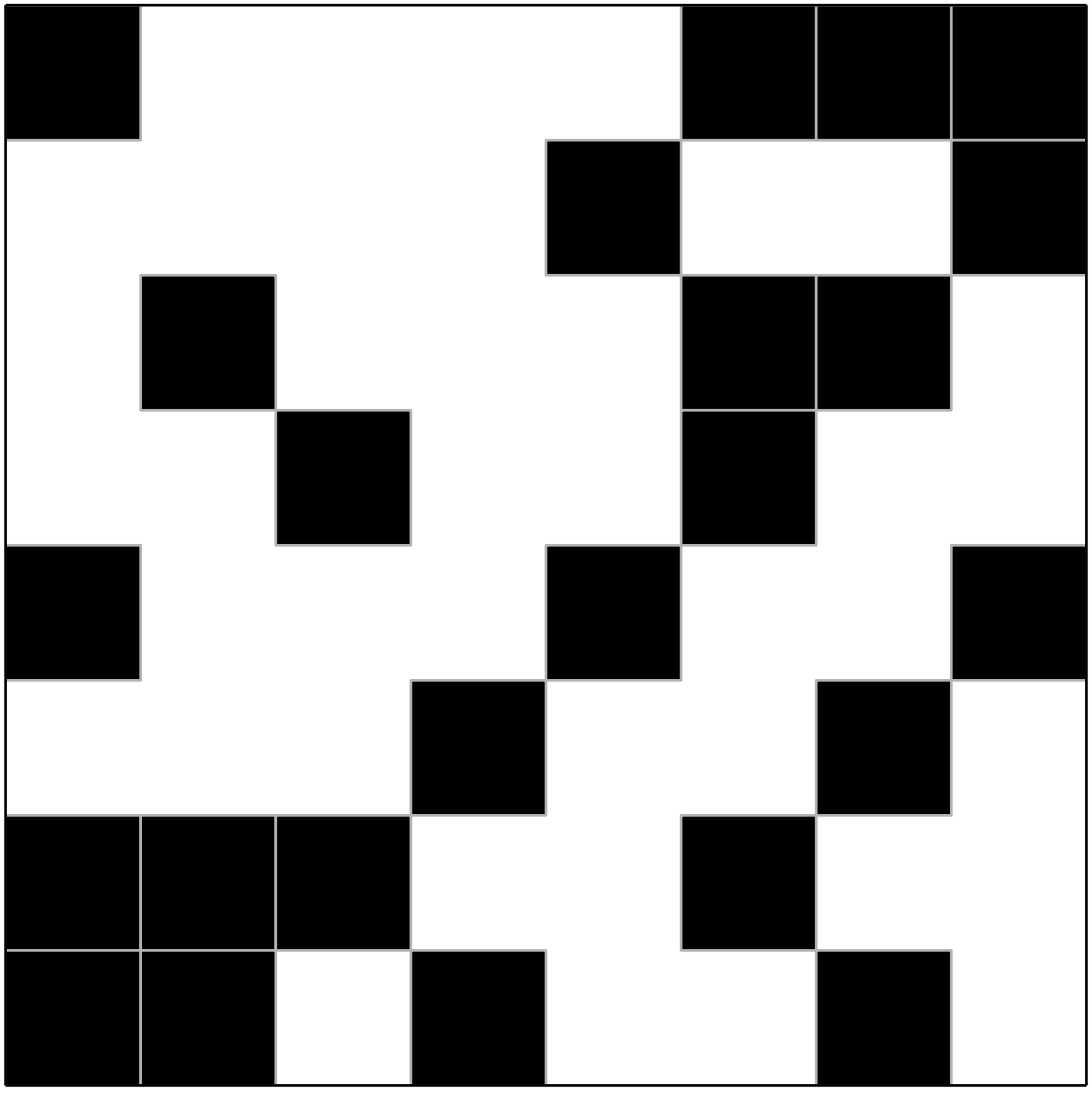
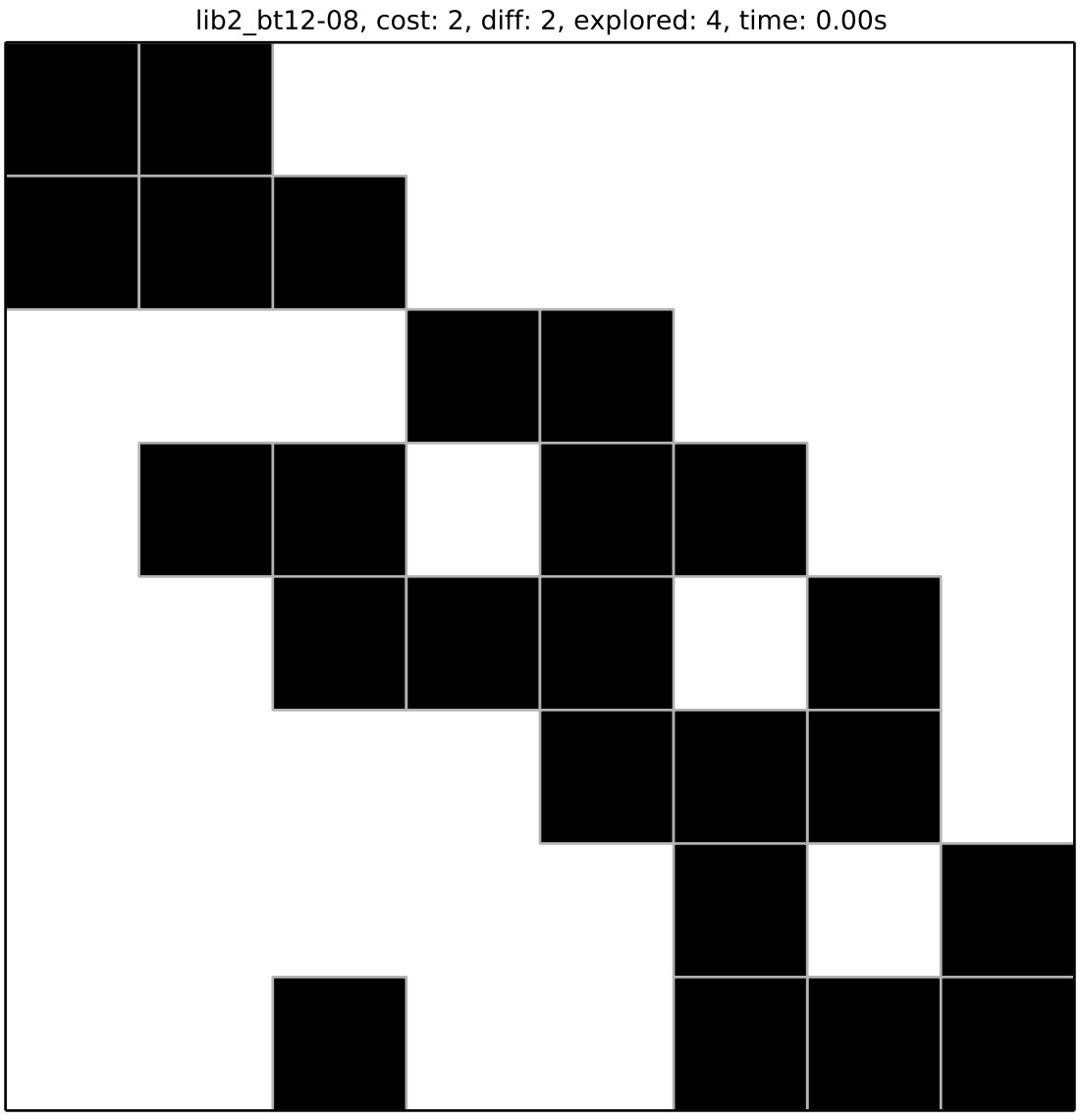
lib2_bt12-08 8x8 (24) con: 3, var: 5

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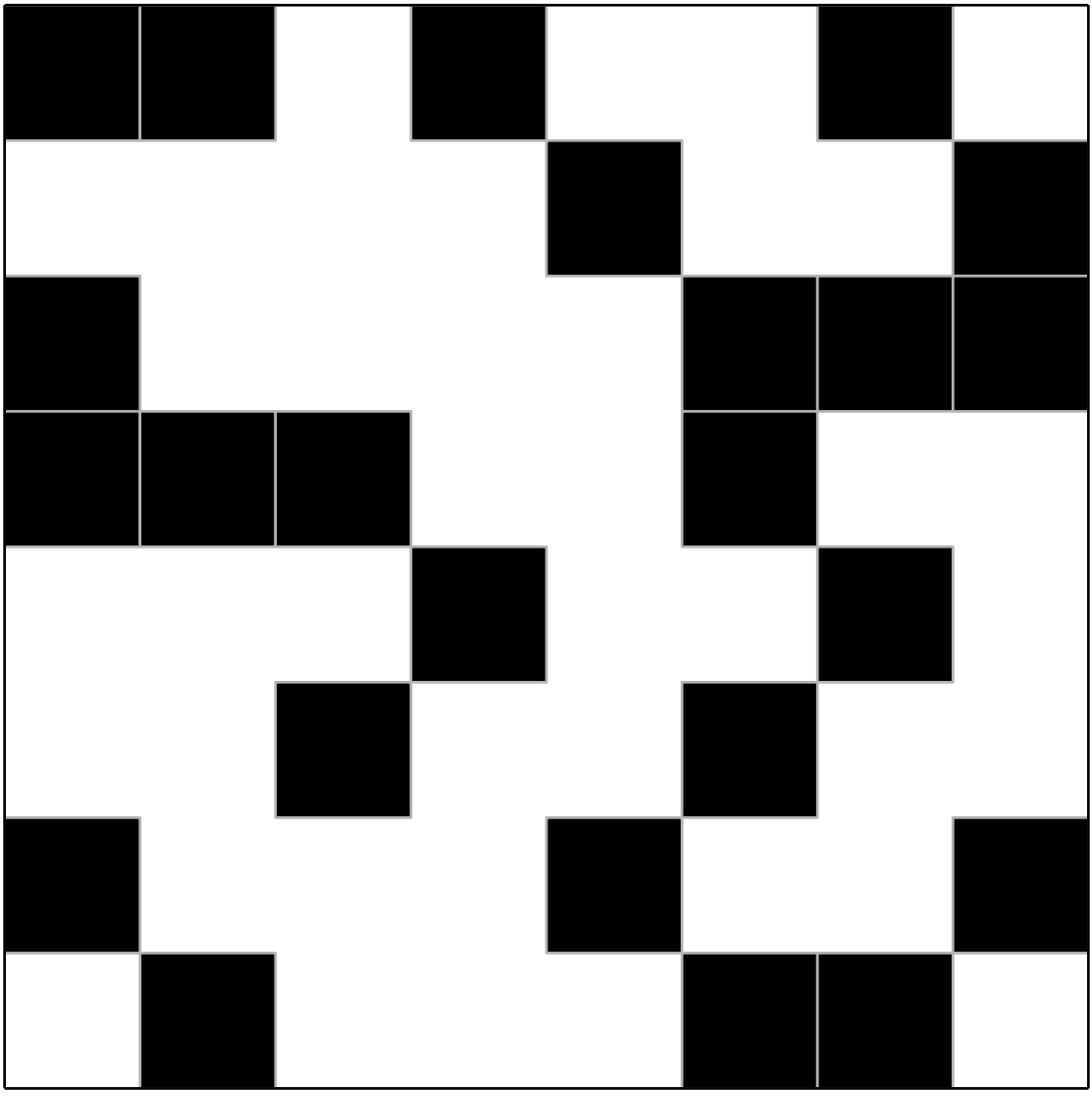
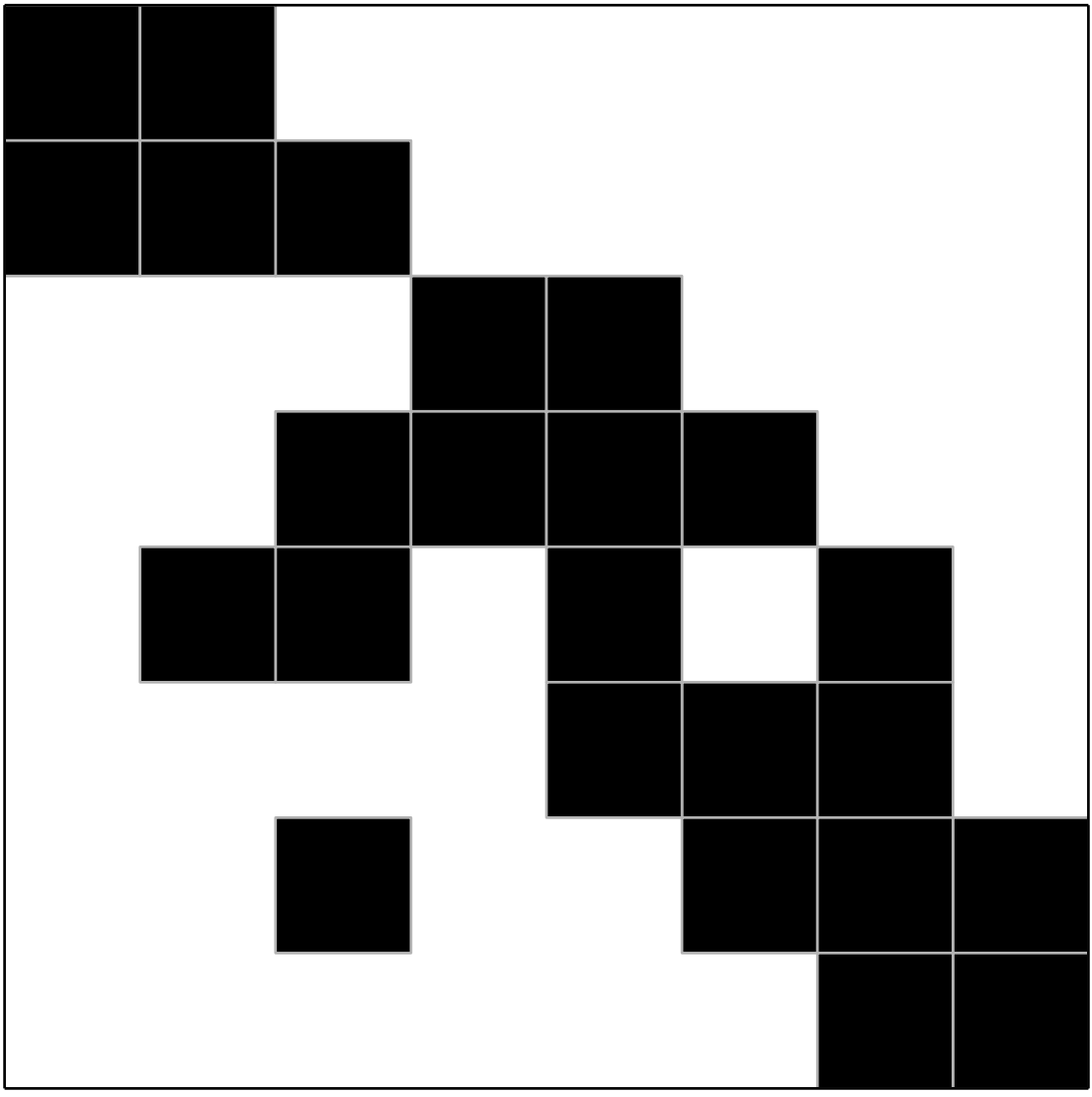
lib2_bt12-09 8x8 (24) con: 3, var: 5

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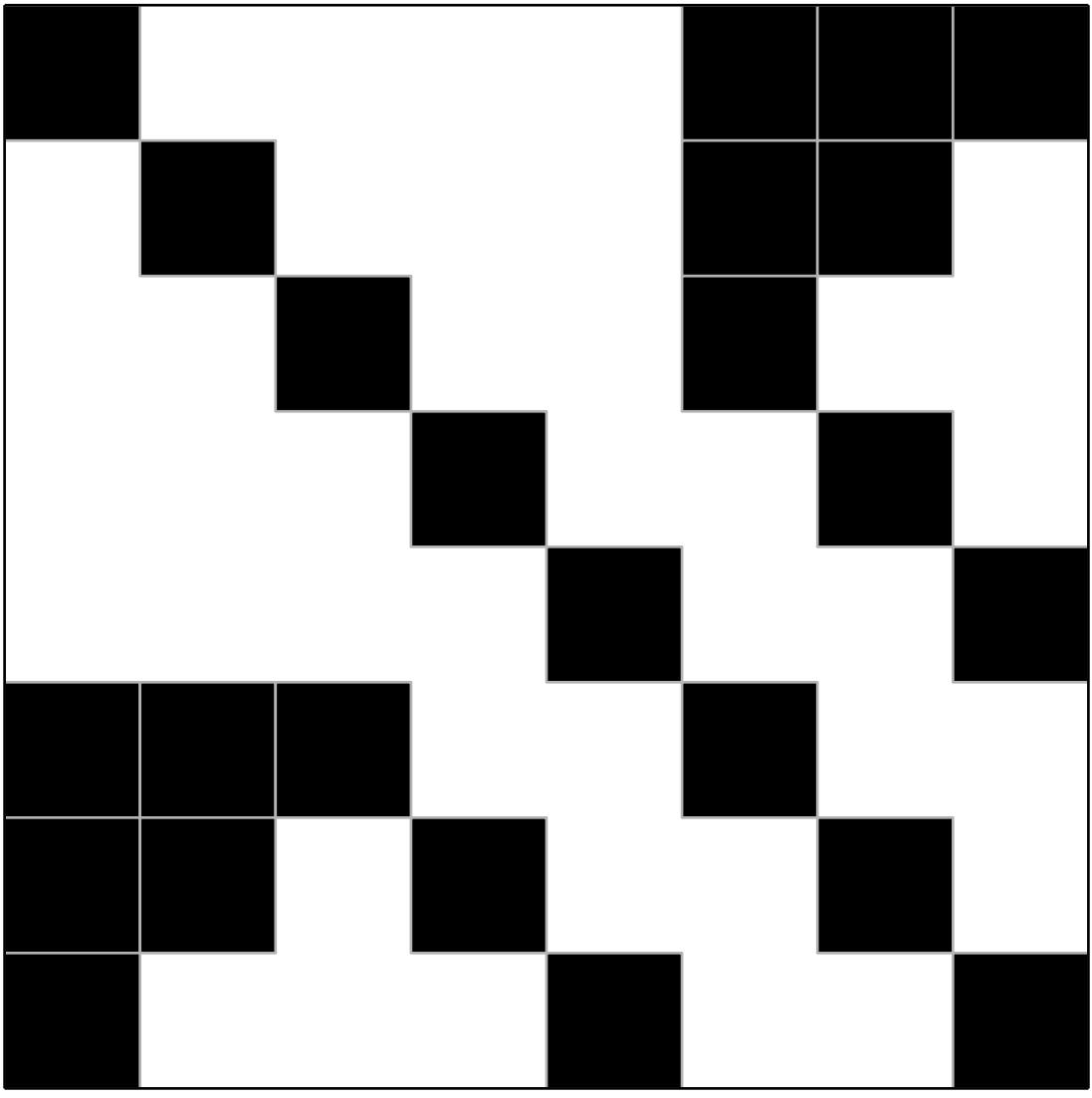
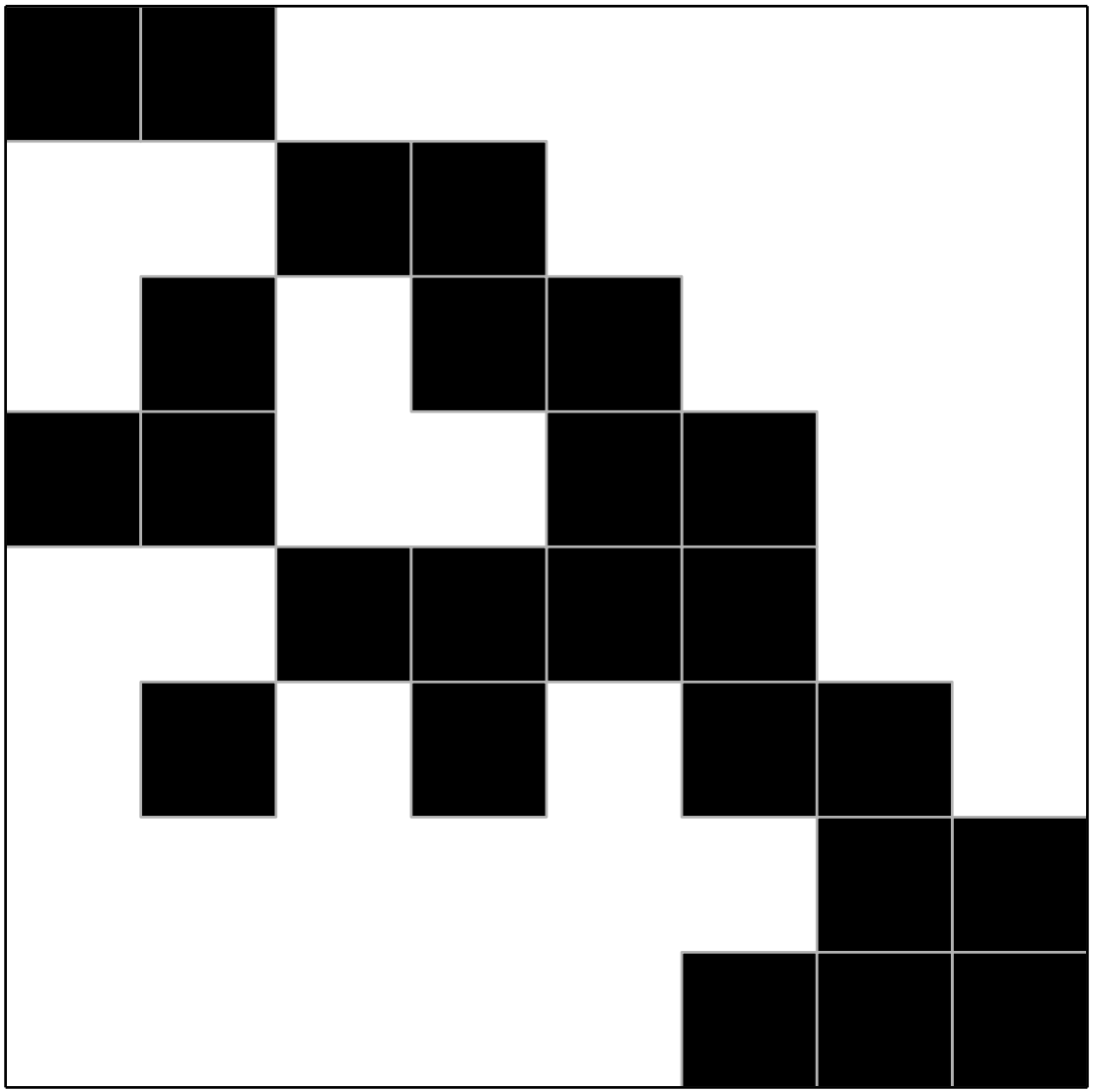
lib2_bt12-IN 8x8 (24) con: 3, var: 5

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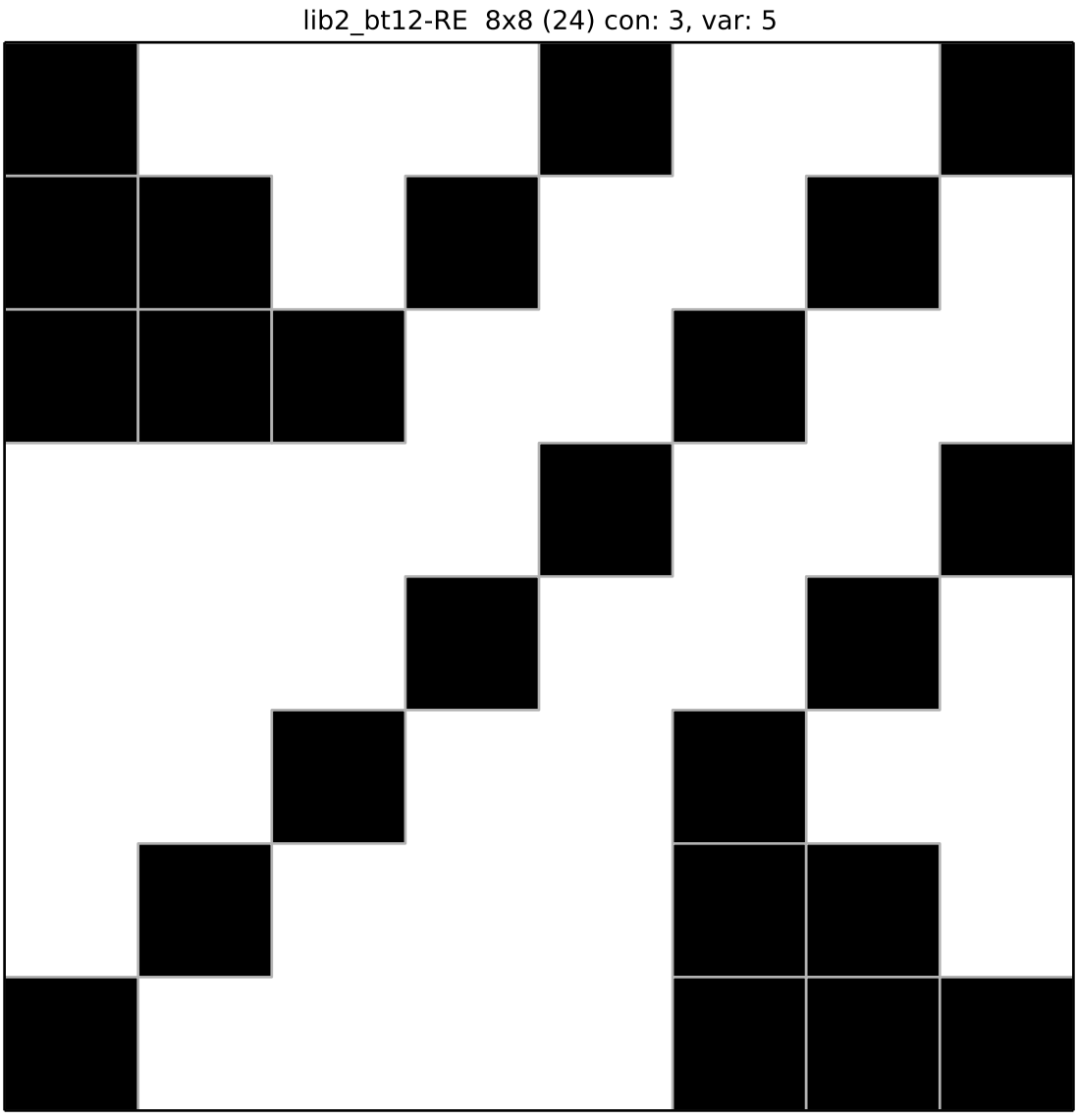
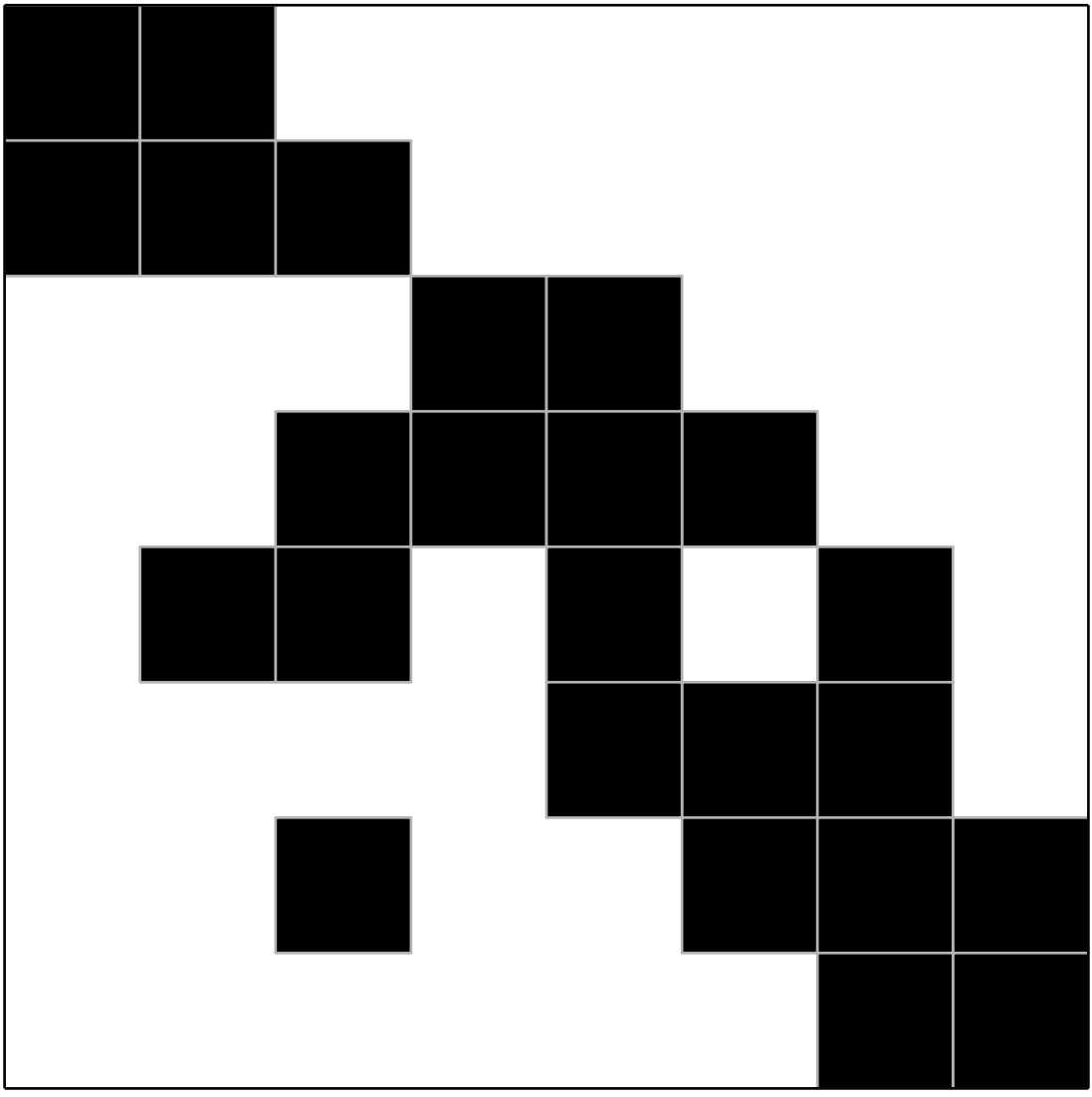

lib2_bt12-RE 8x8 (24) con: 3, var: 5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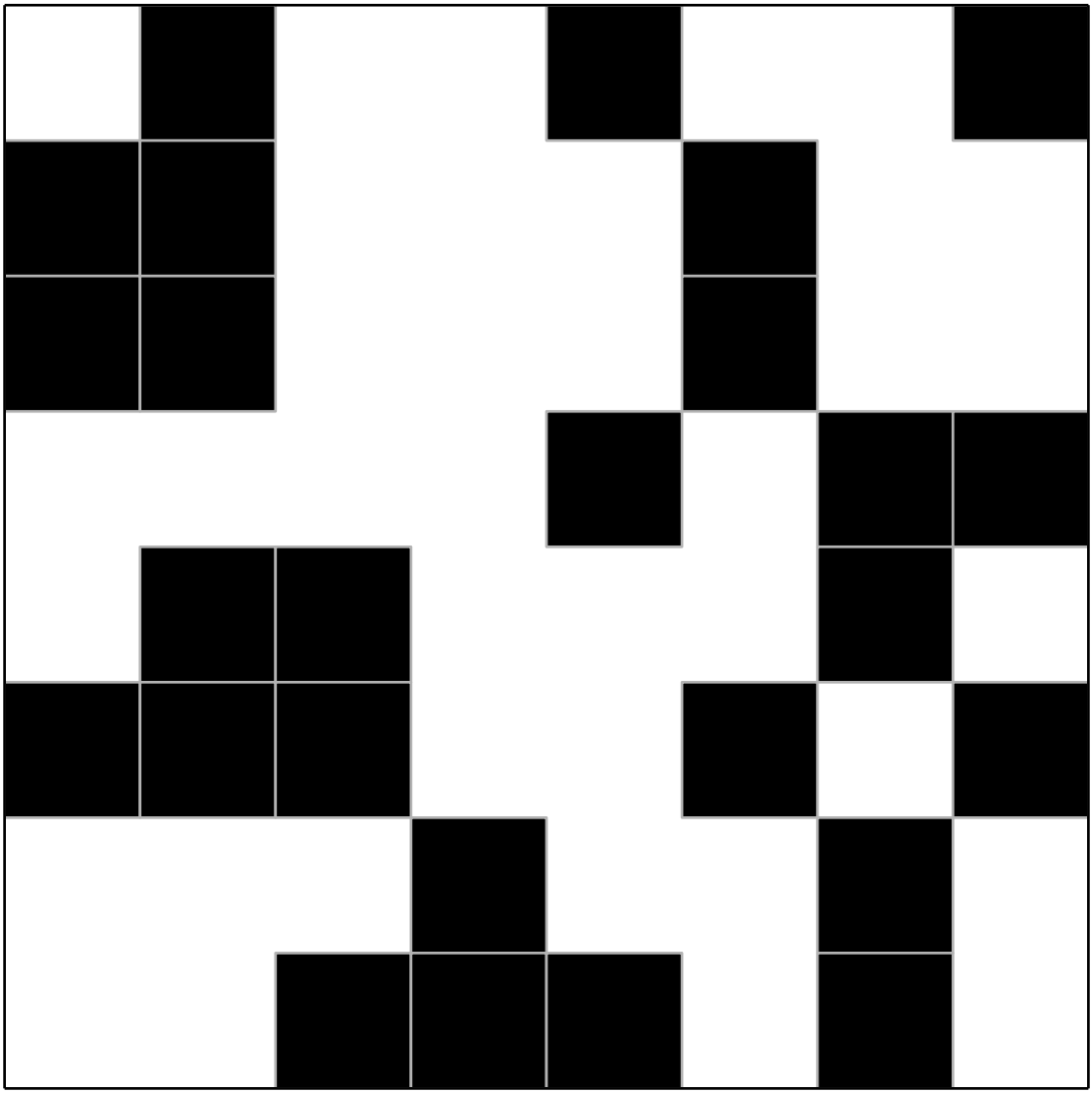
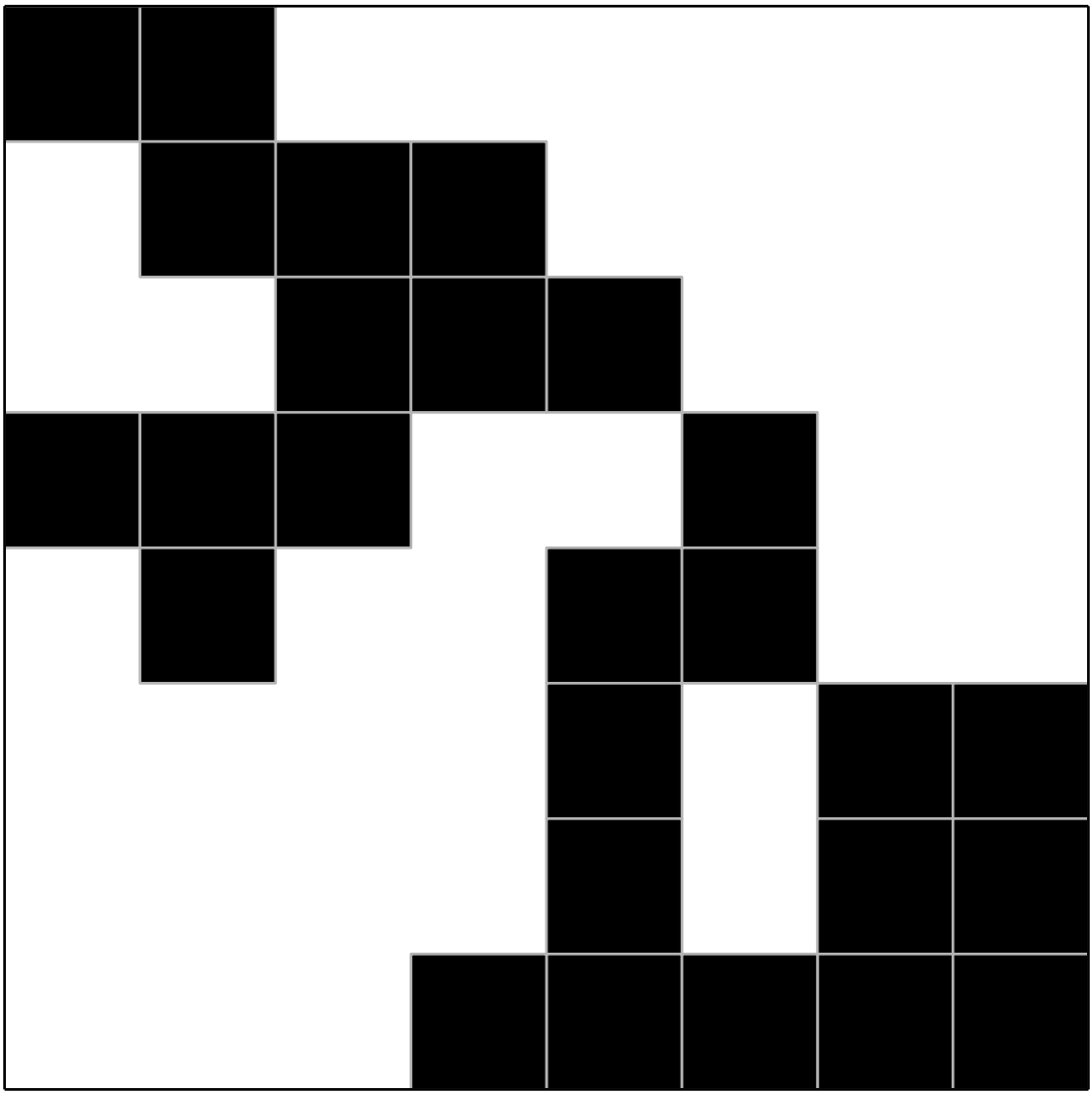
lib2_bt3-00 8x8 (26) con: 3, var: 5

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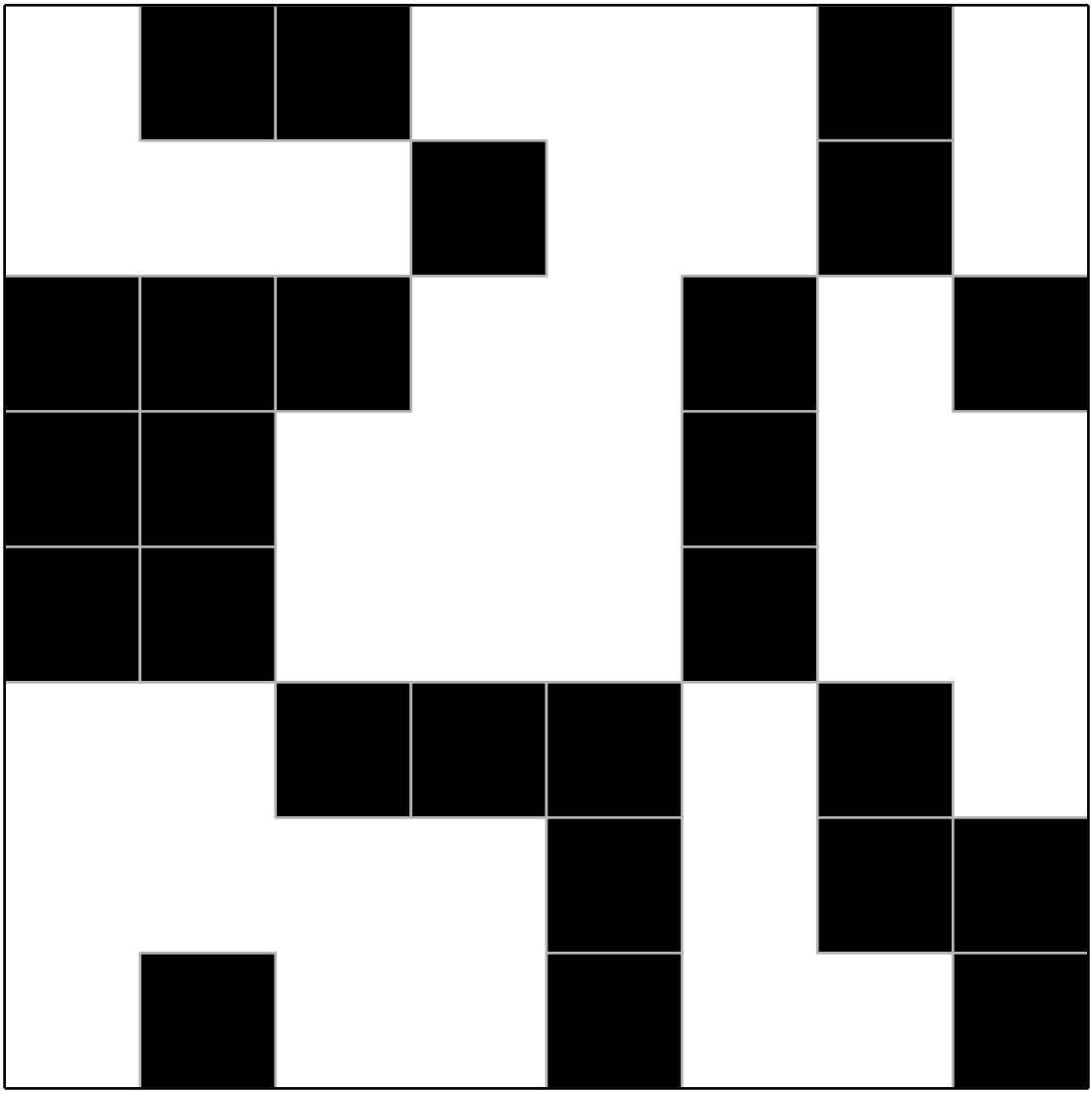

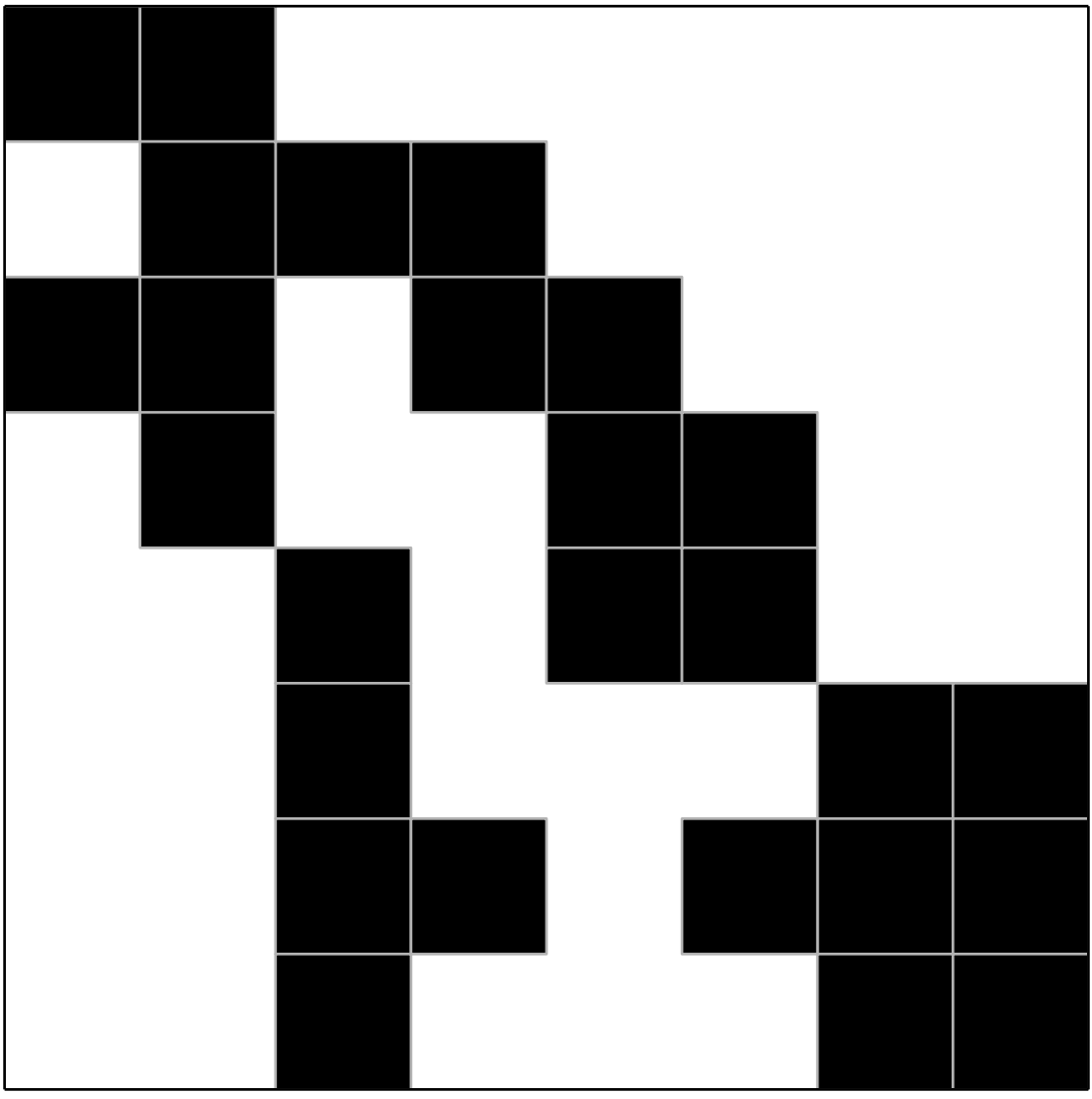
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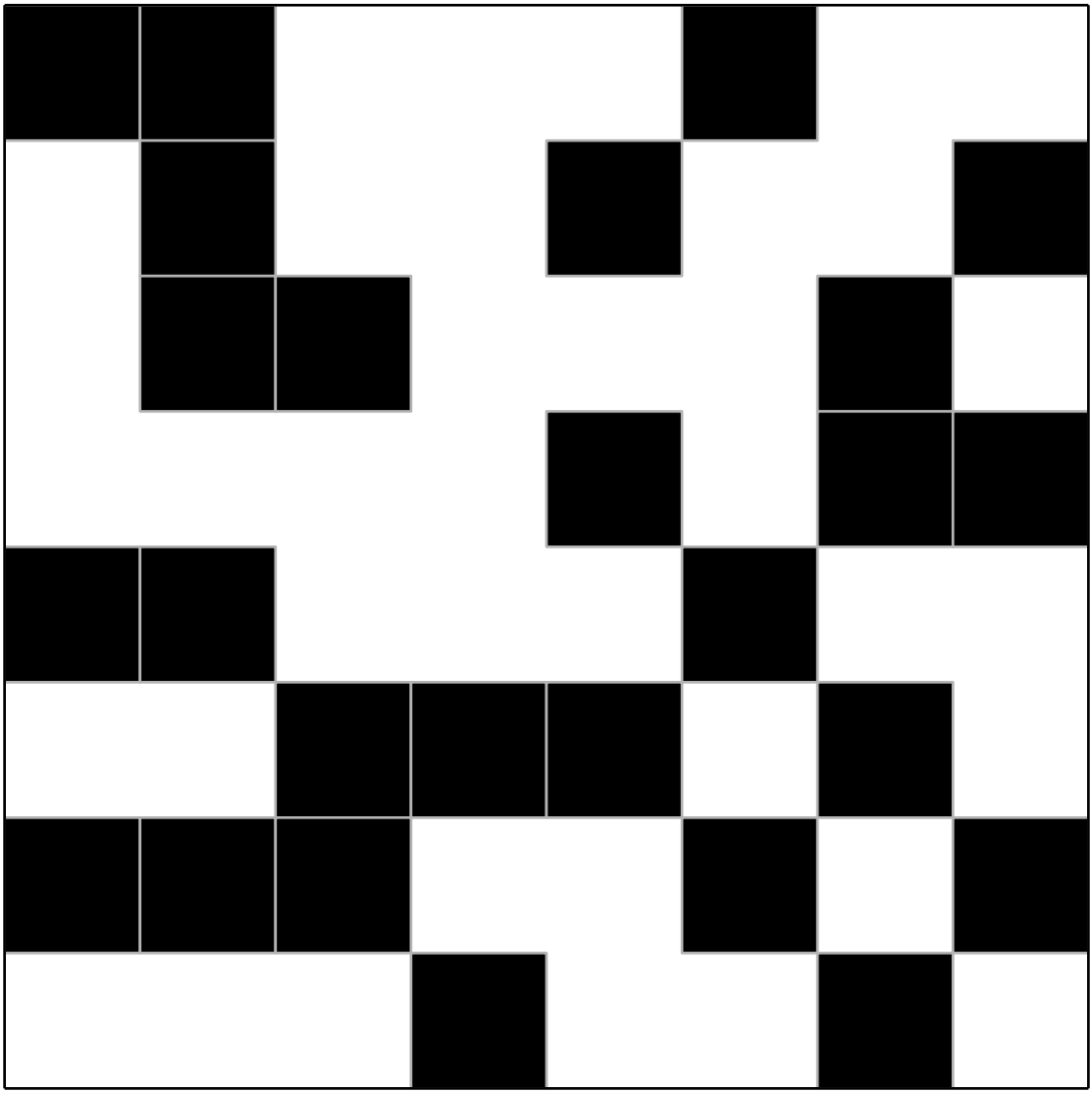

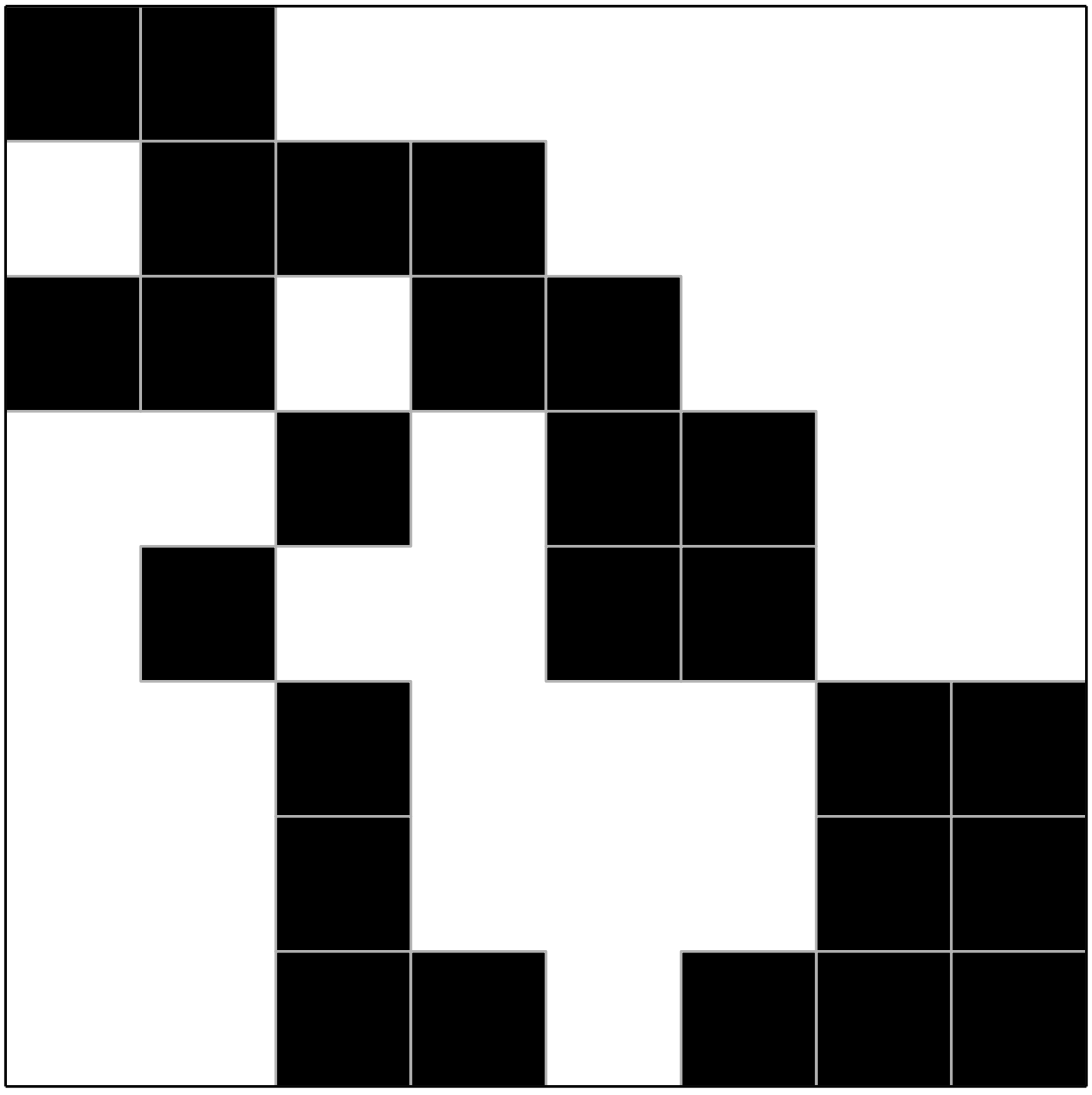
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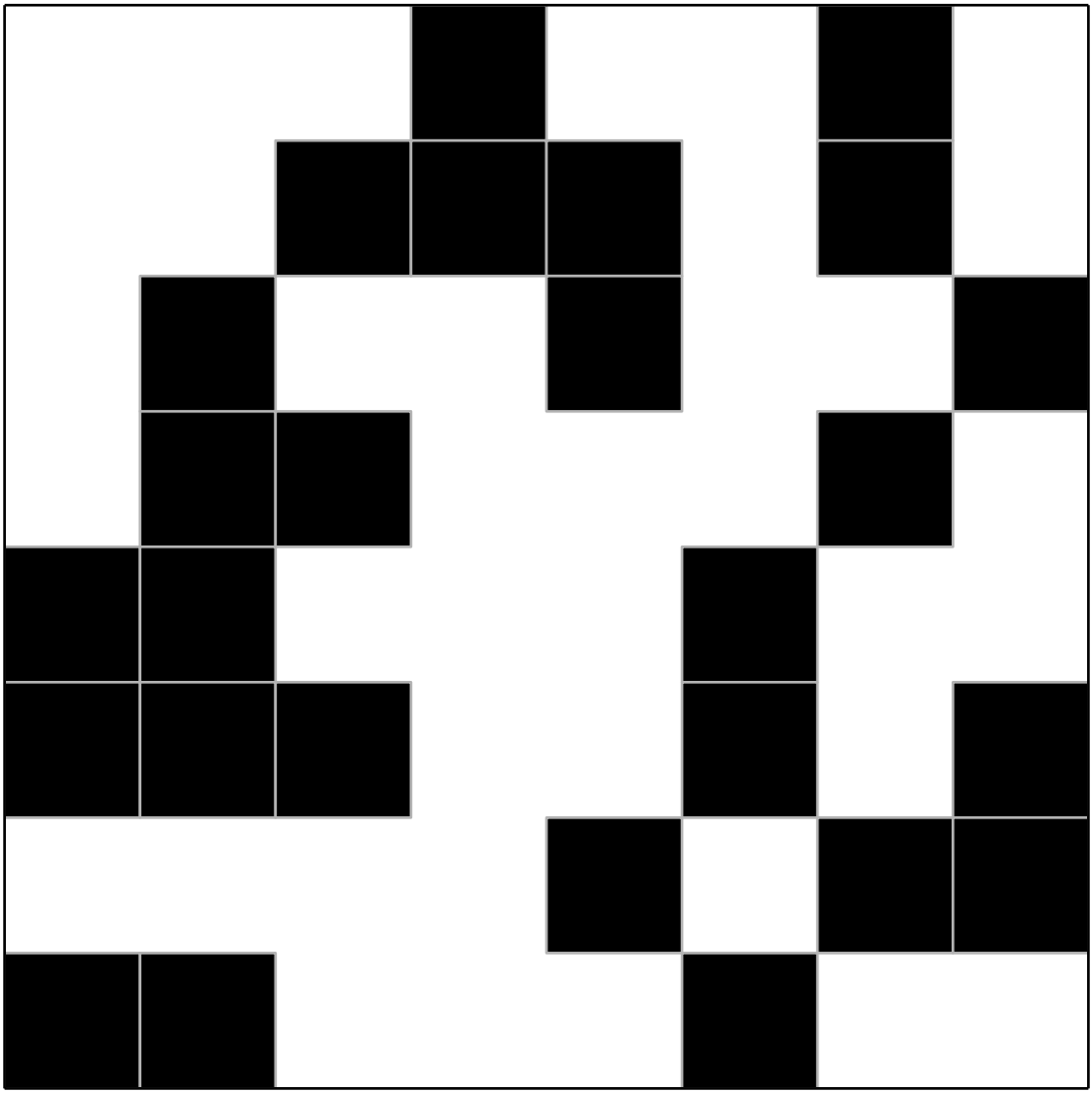

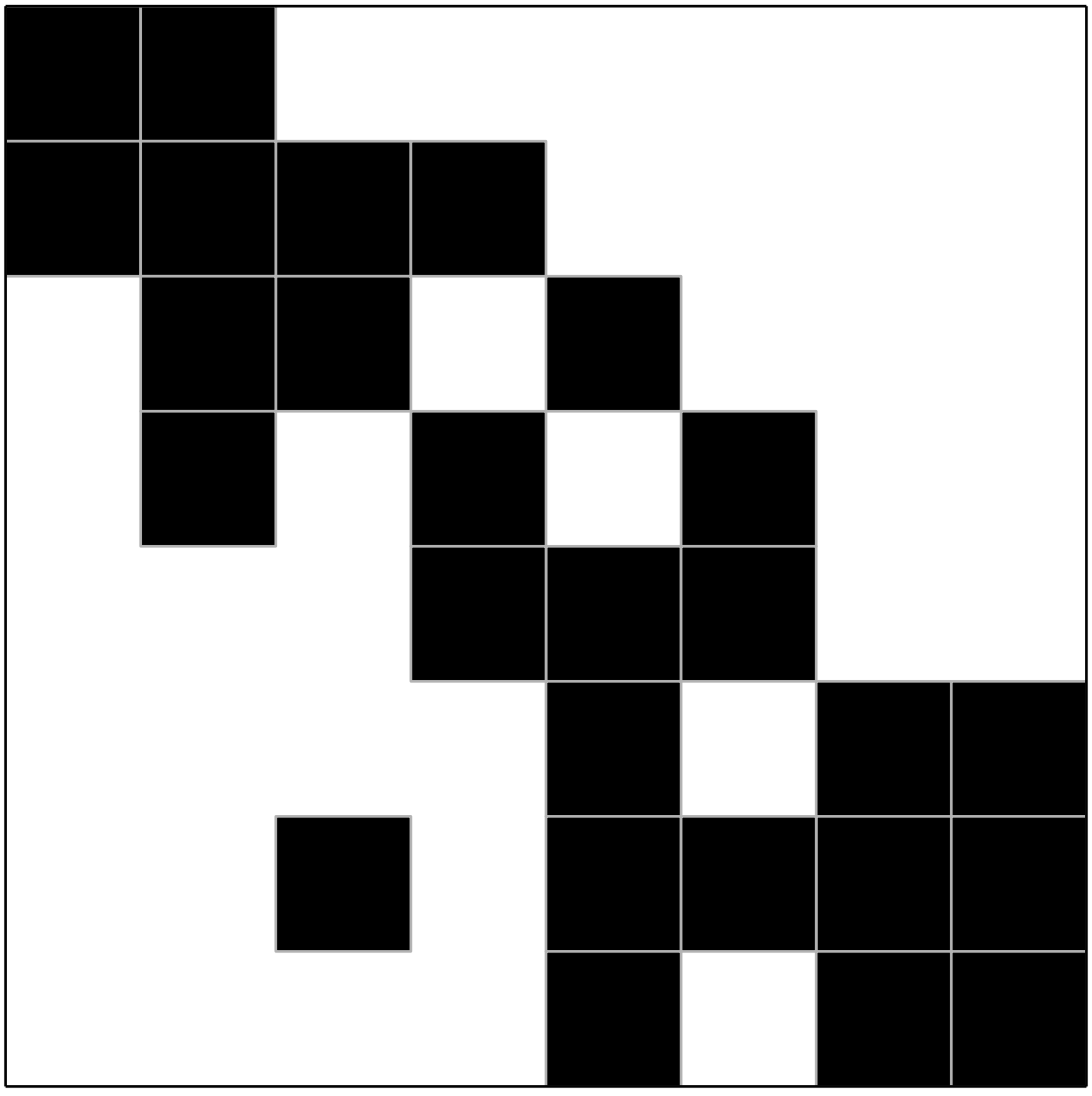
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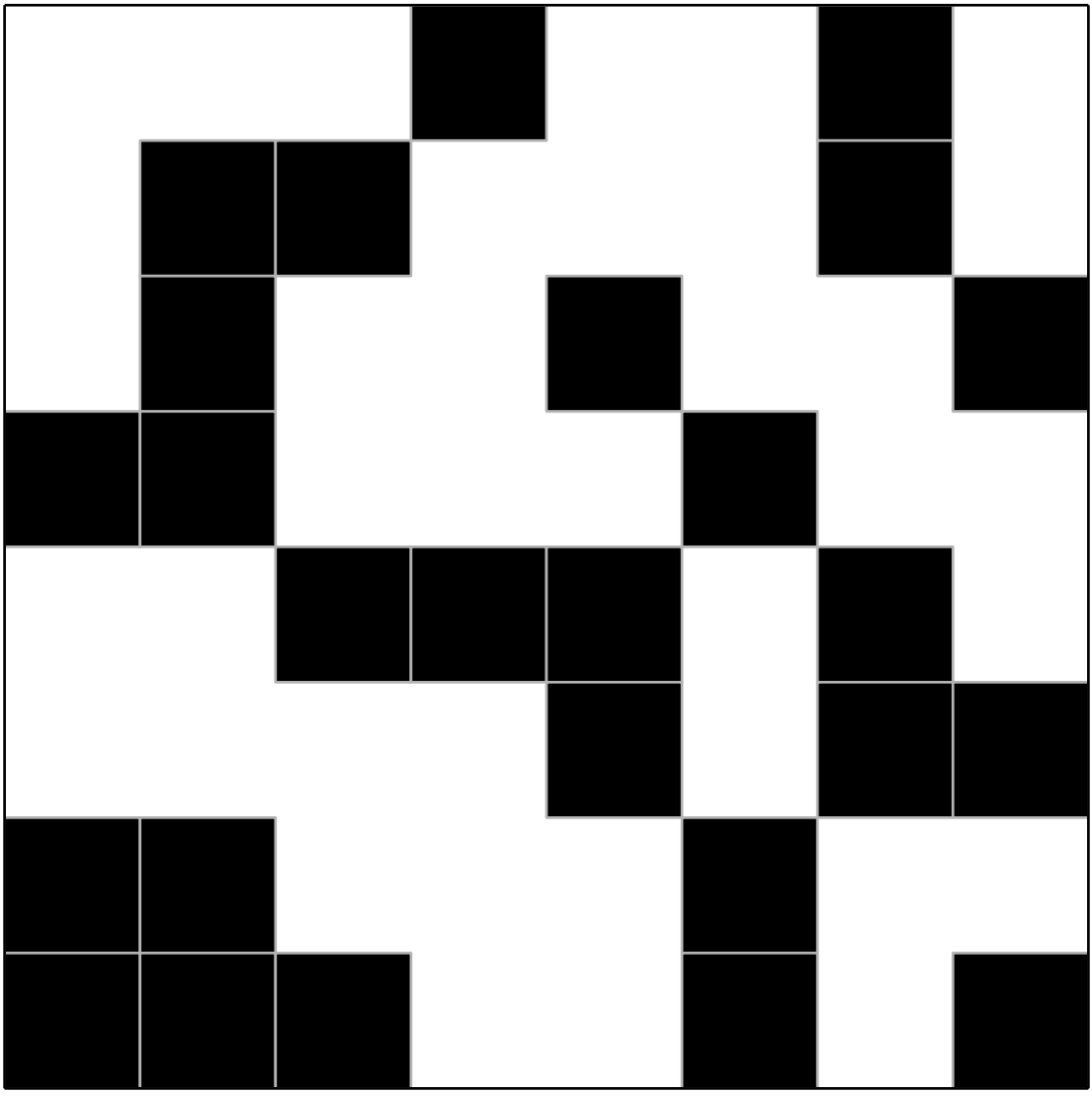
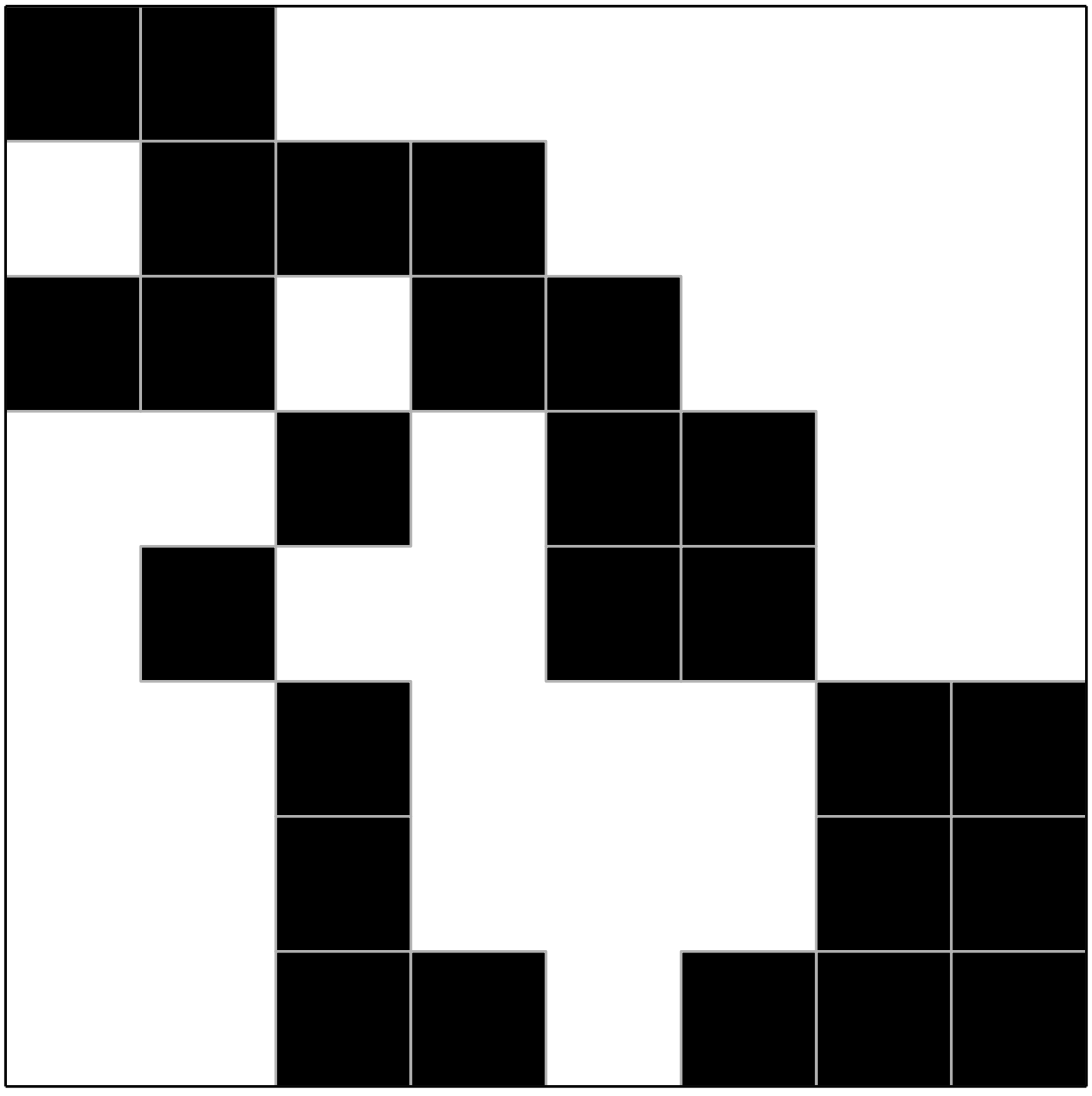
lib2_bt3-04 8x8 (26) con: 3, var: 5

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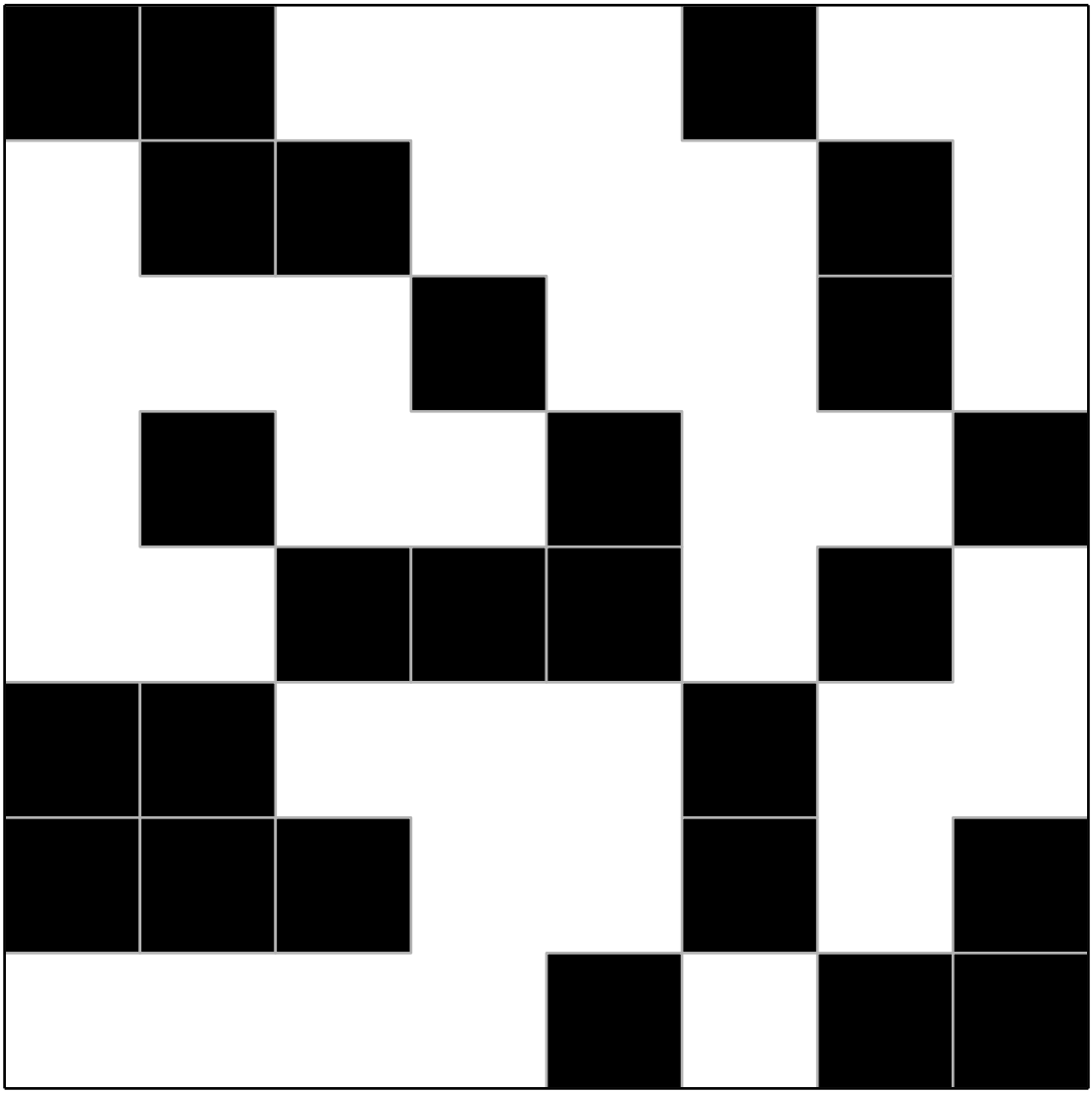

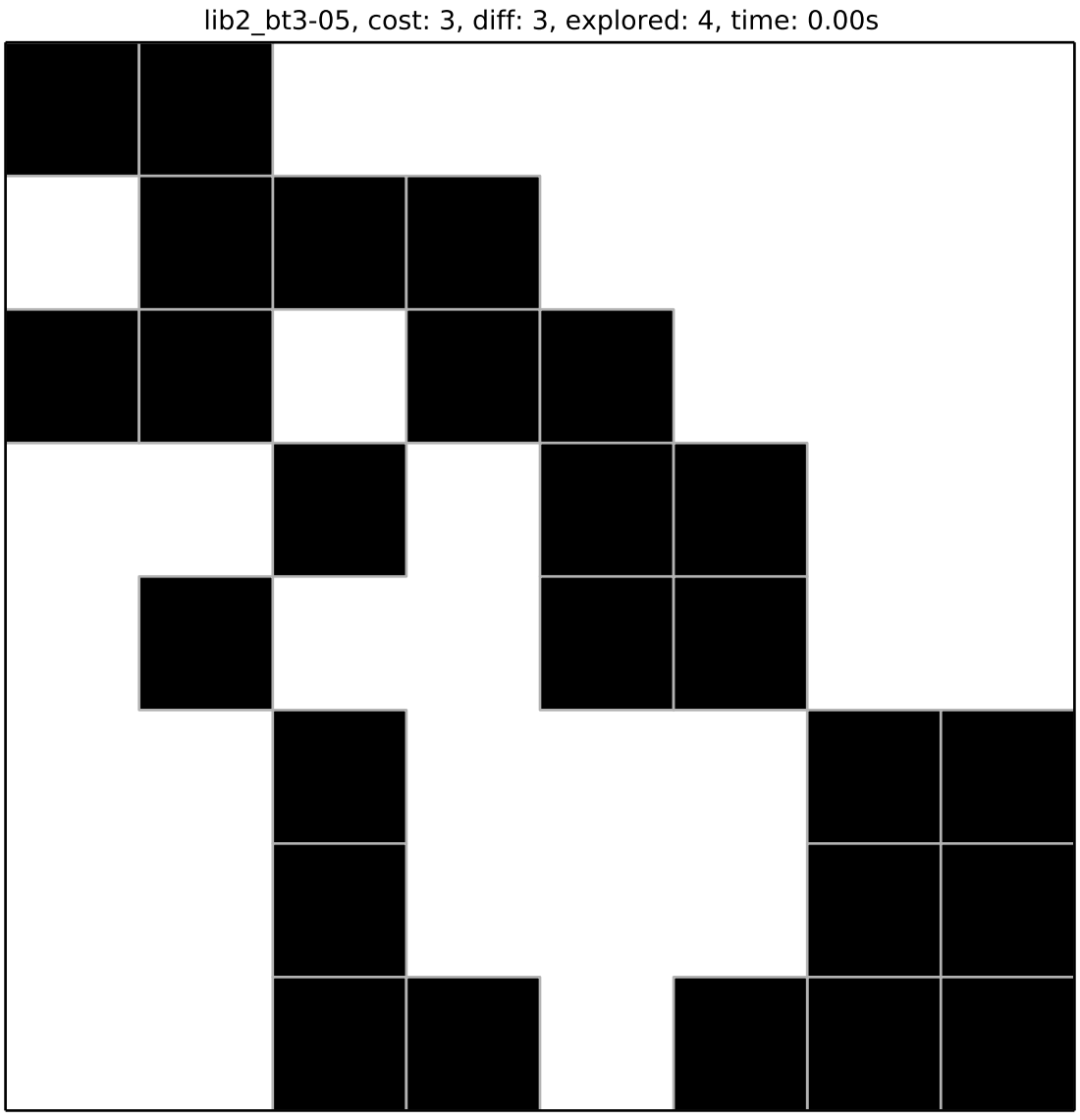
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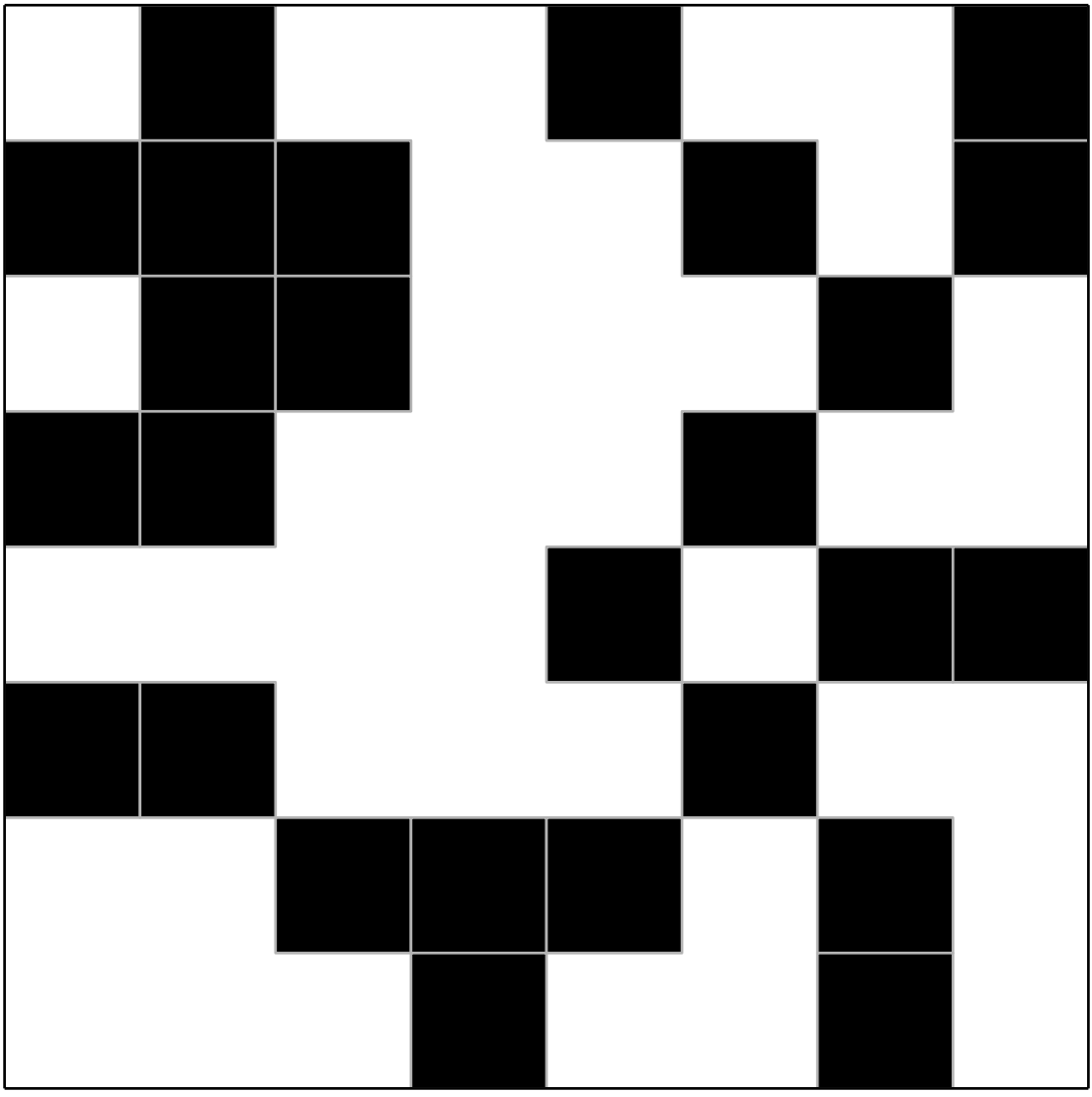

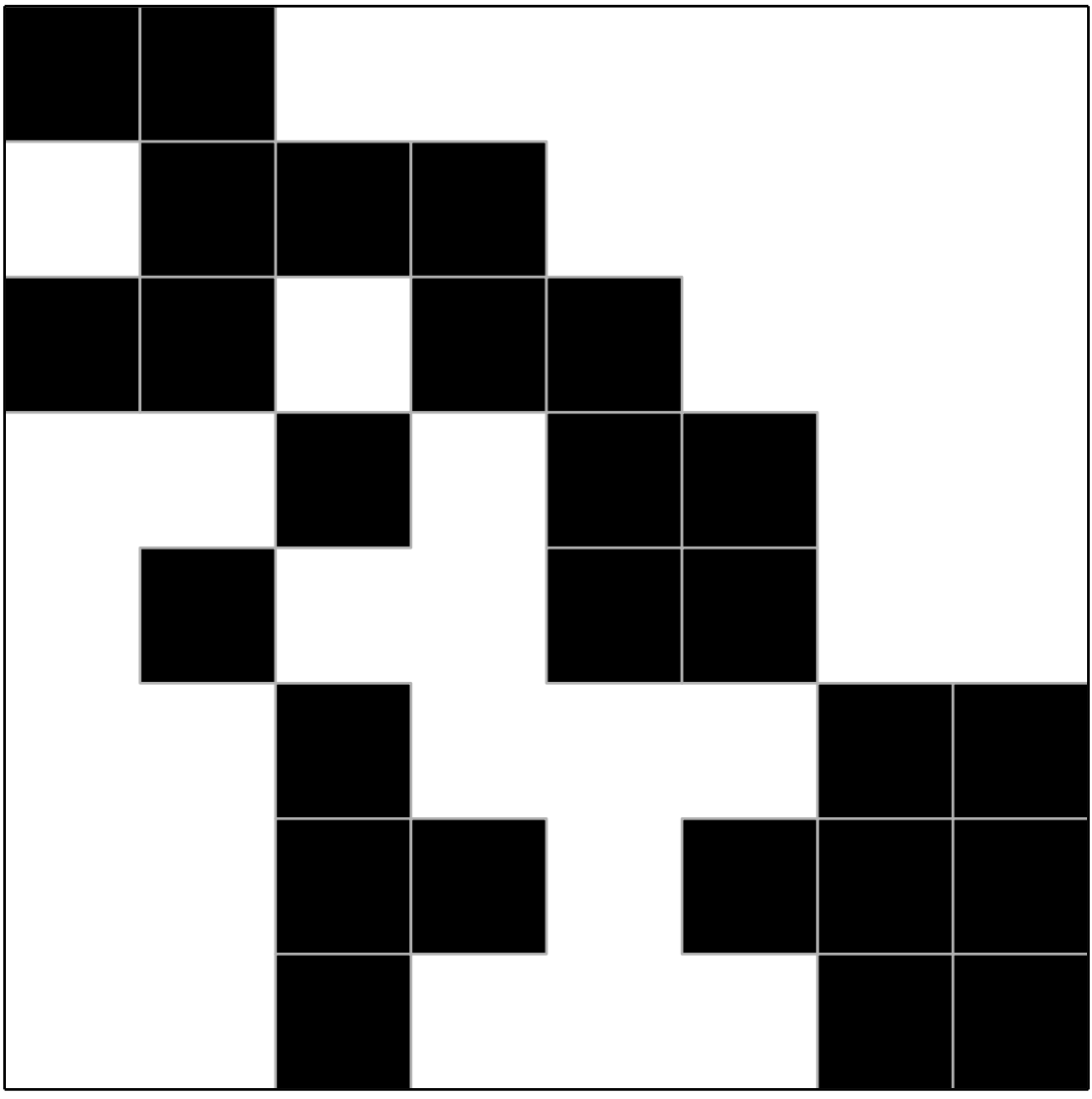
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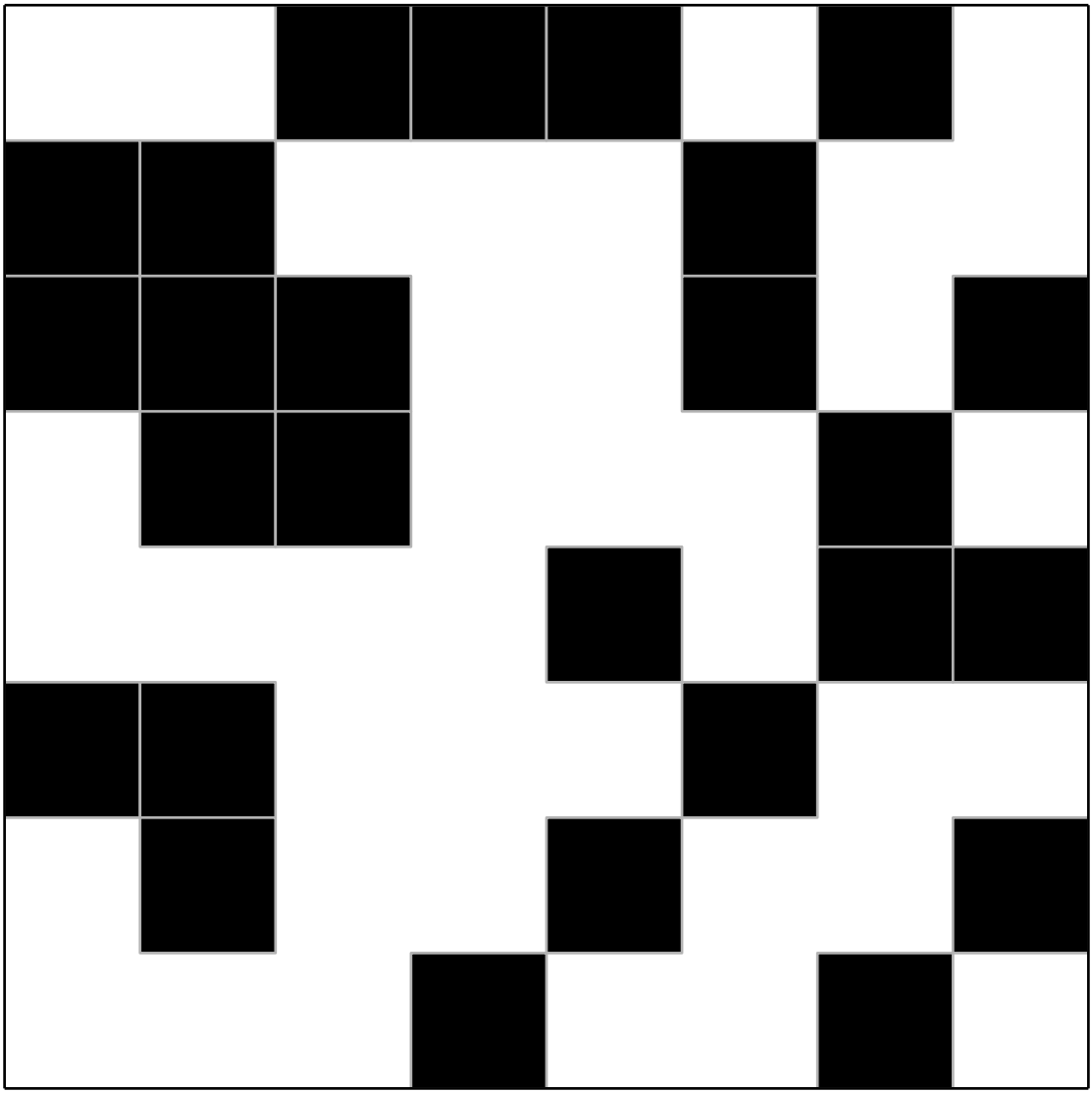
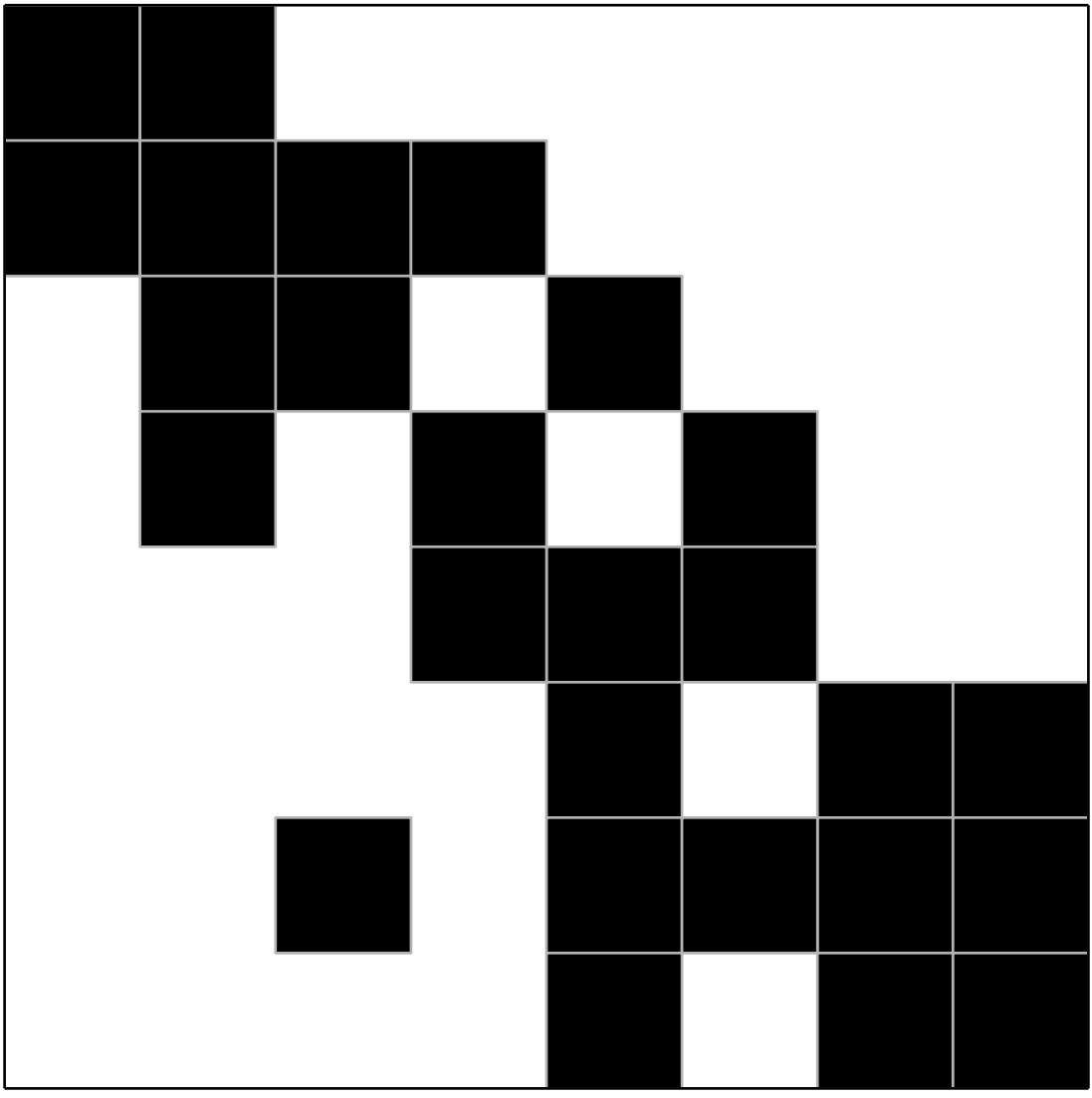
lib2_bt3-07 8x8 (26) con: 3, var: 5

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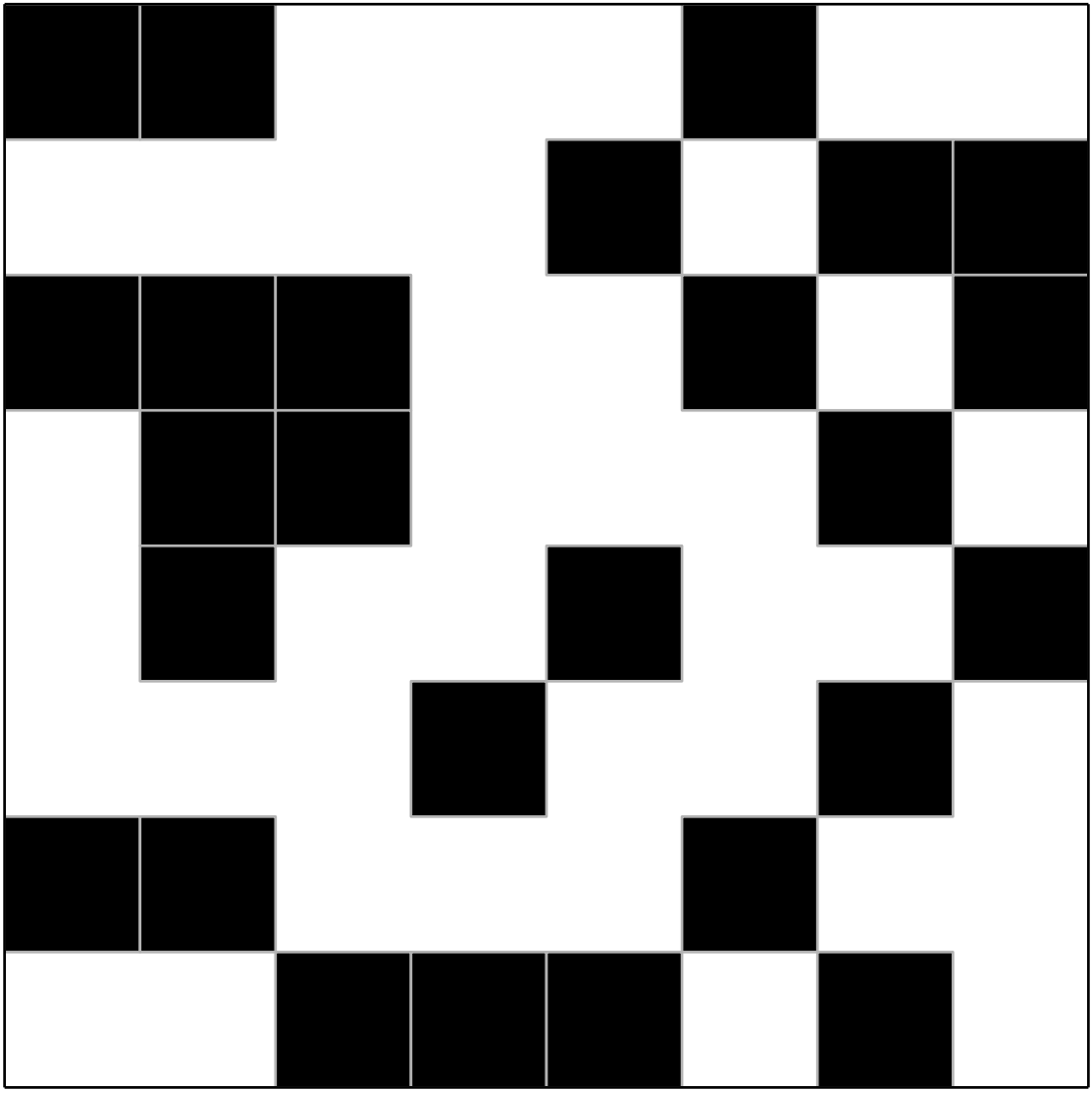
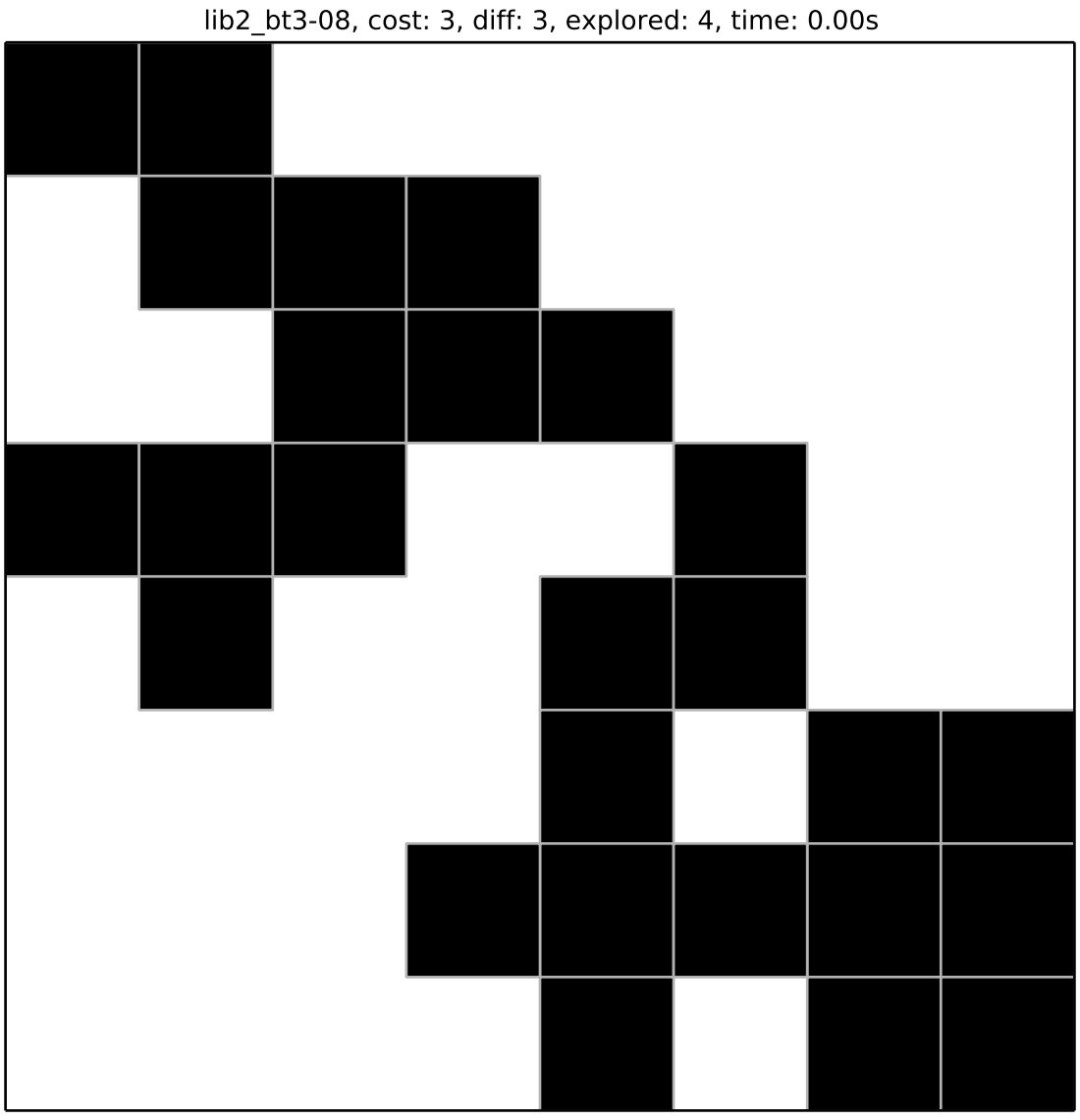
lib2_bt3-08 8x8 (26) con: 3, var: 5

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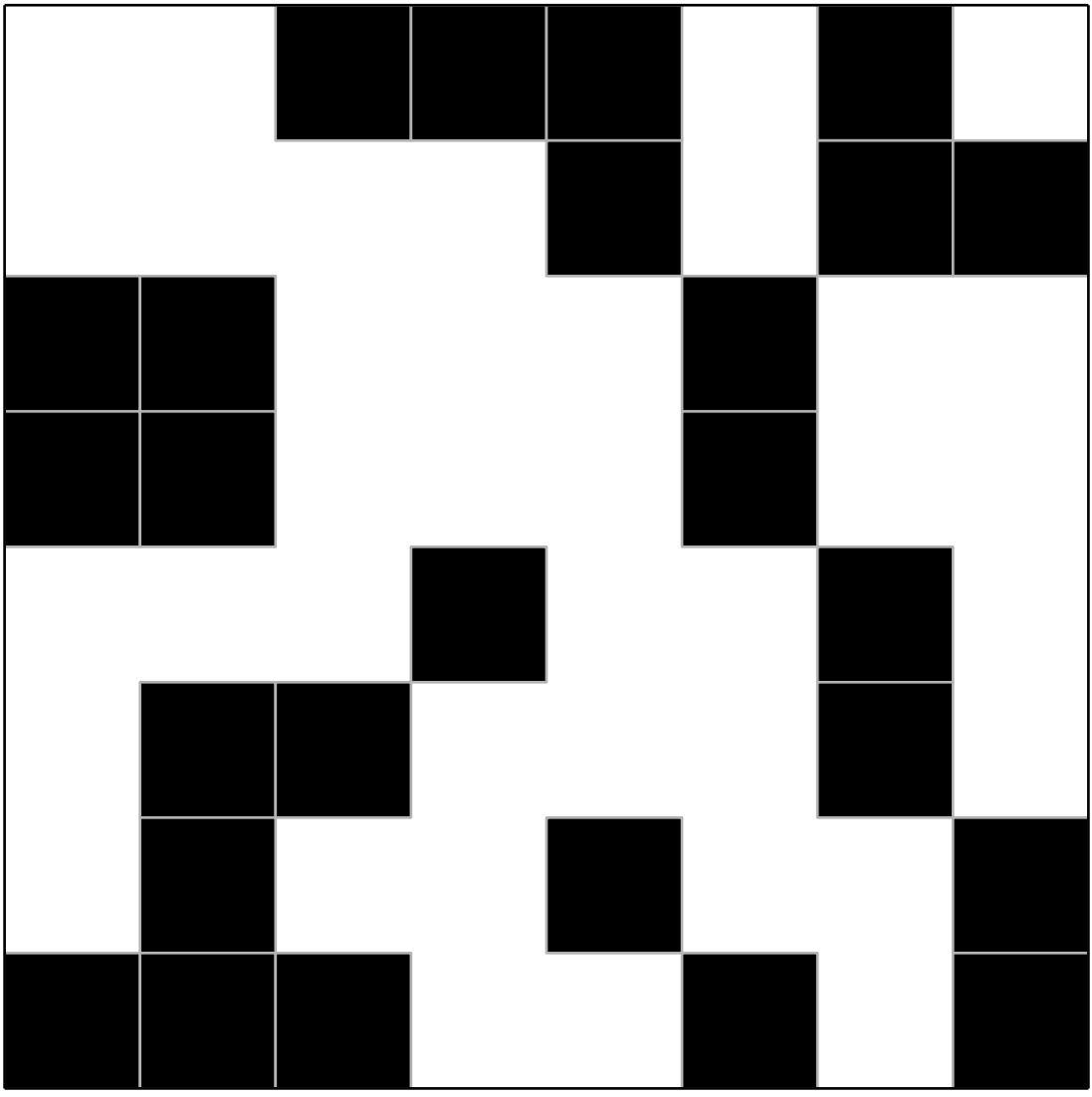

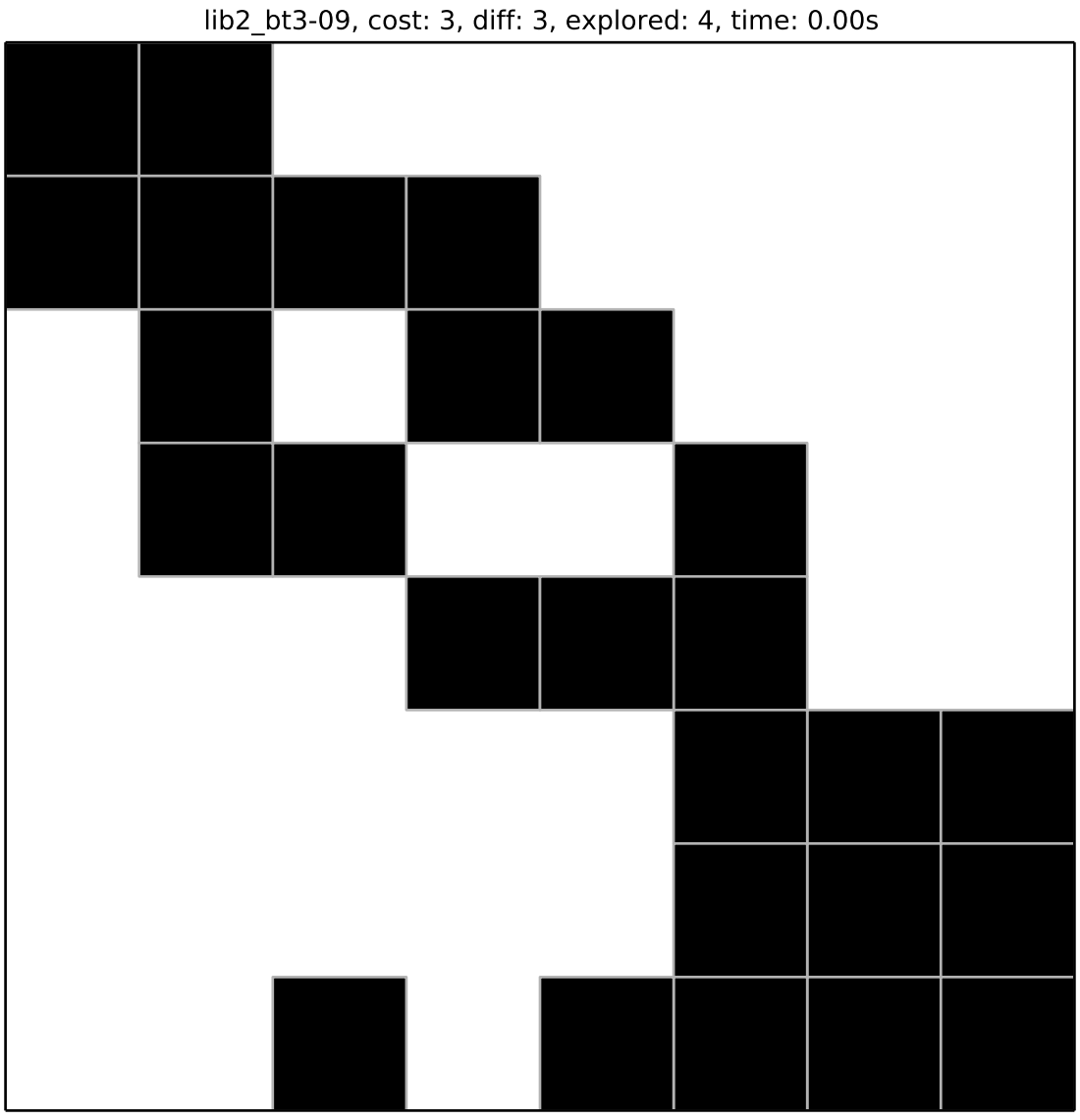
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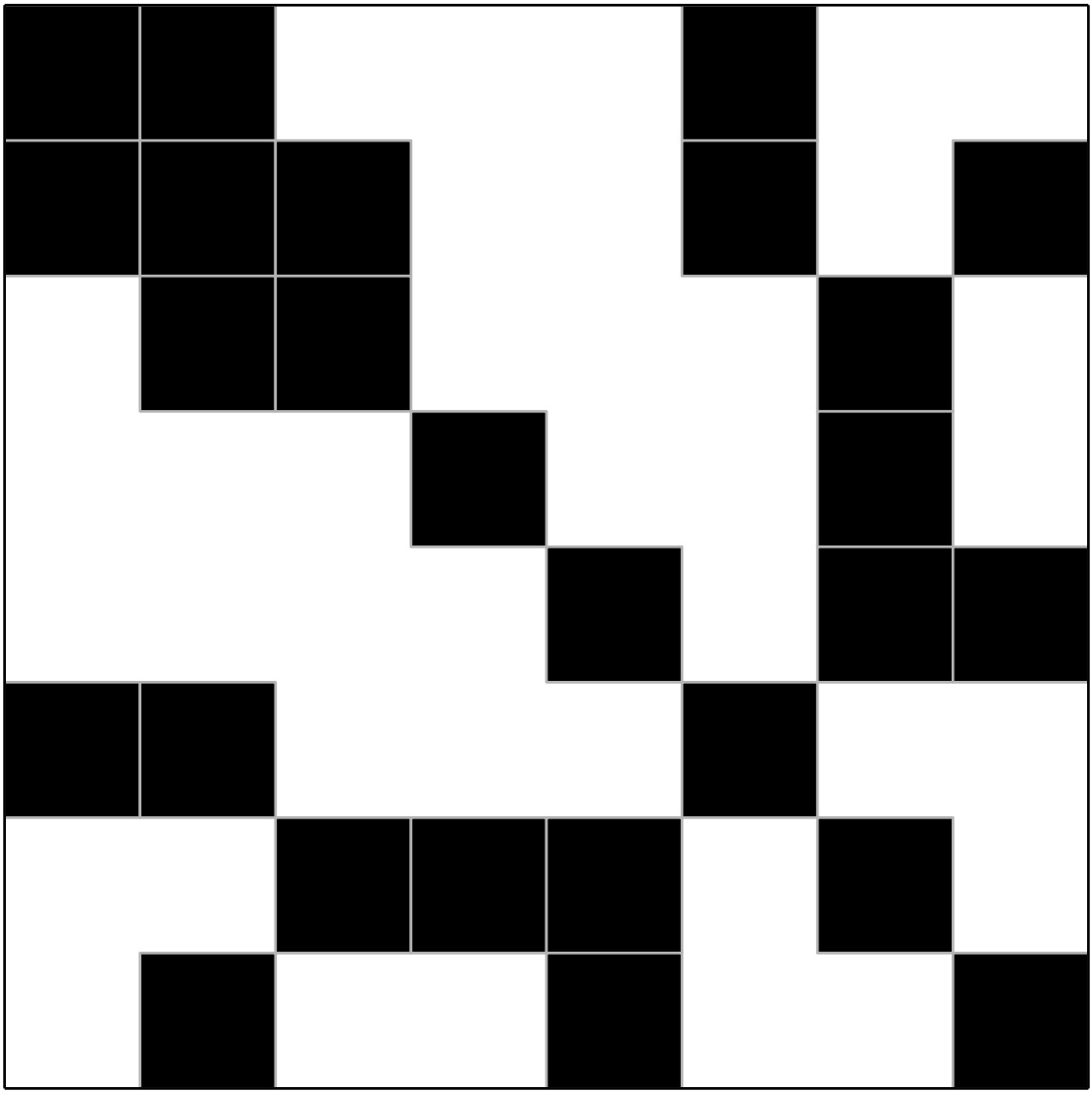
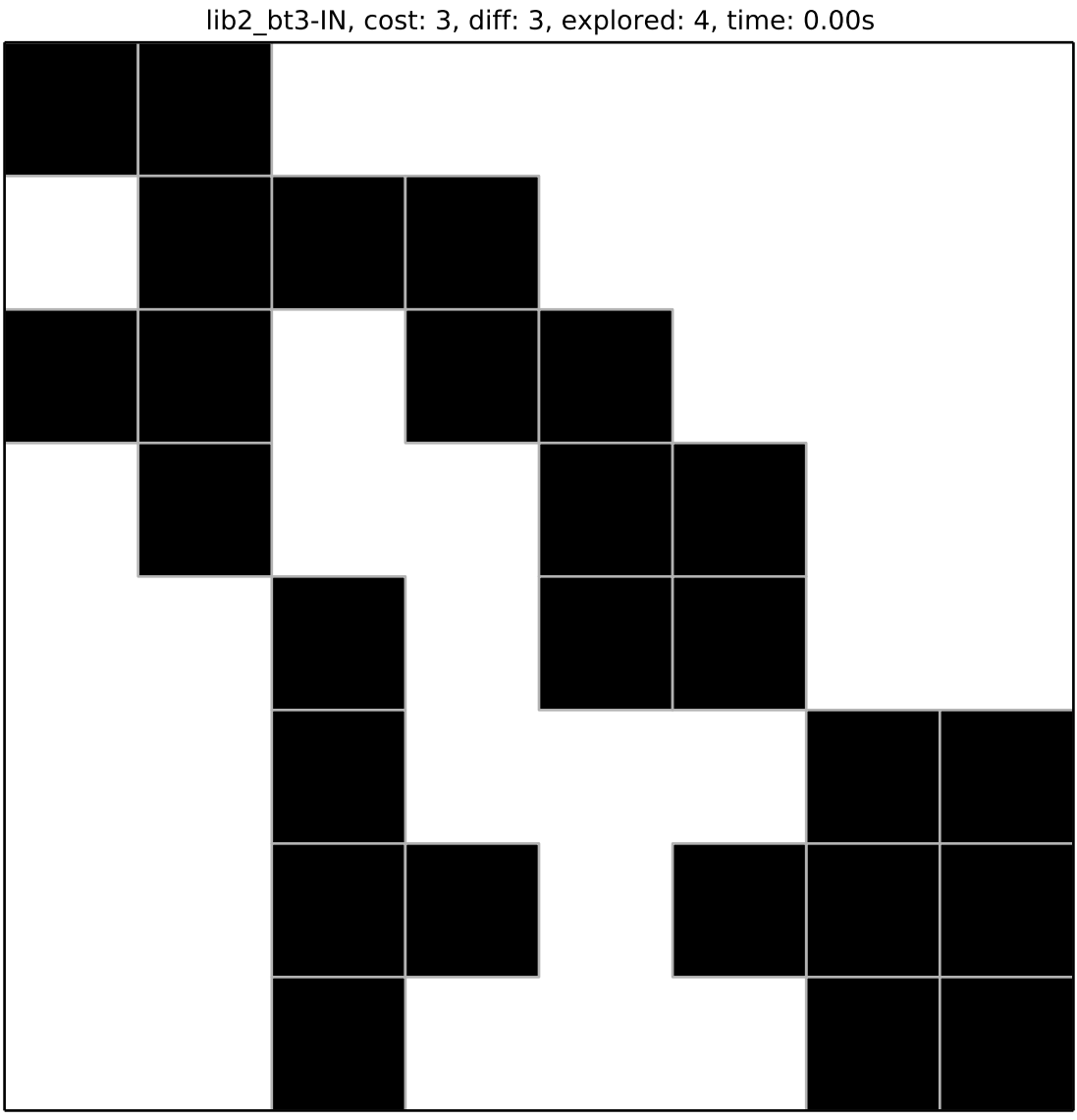
lib2_bt3-IN 8x8 (26) con: 3, var: 5

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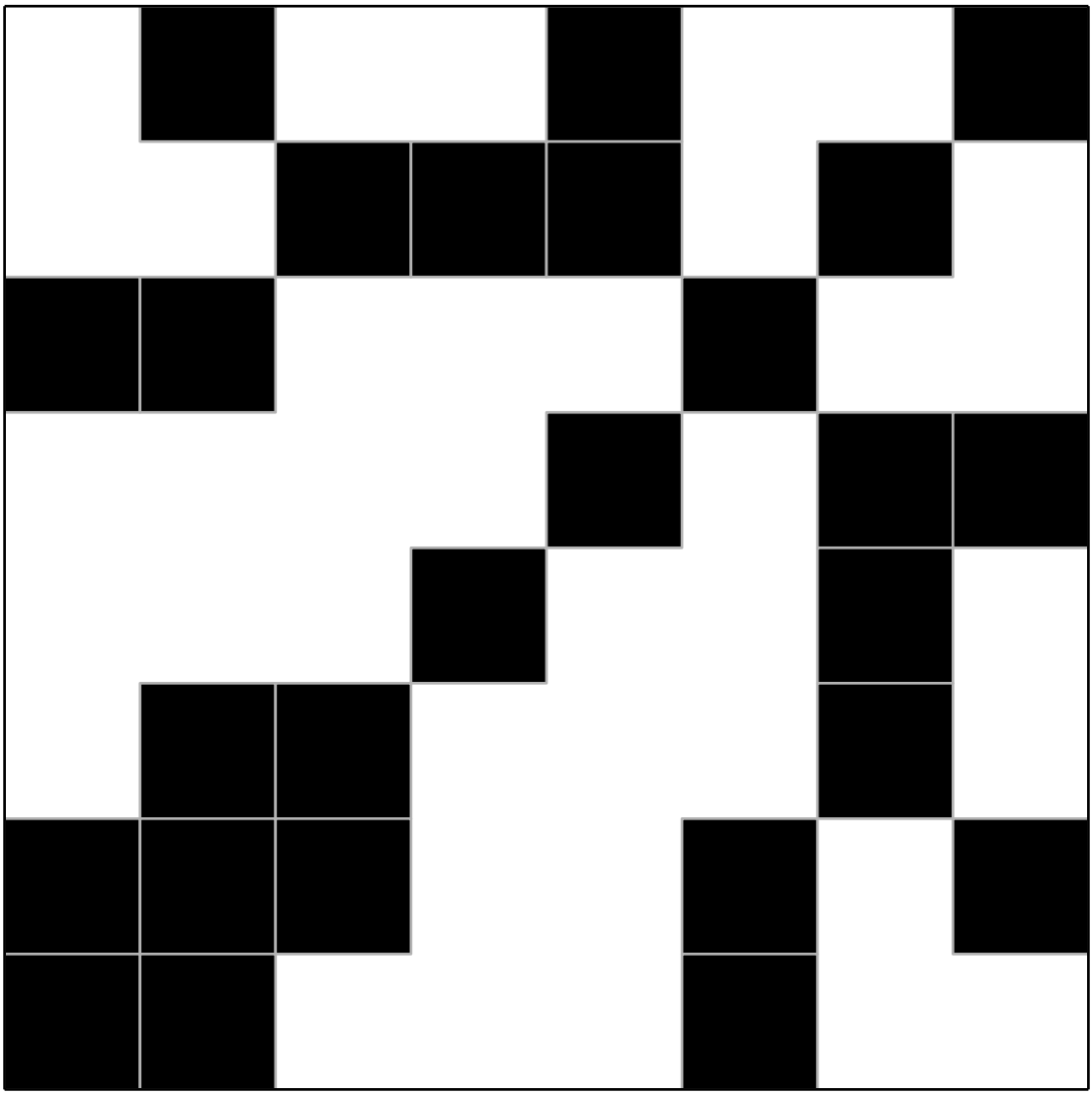
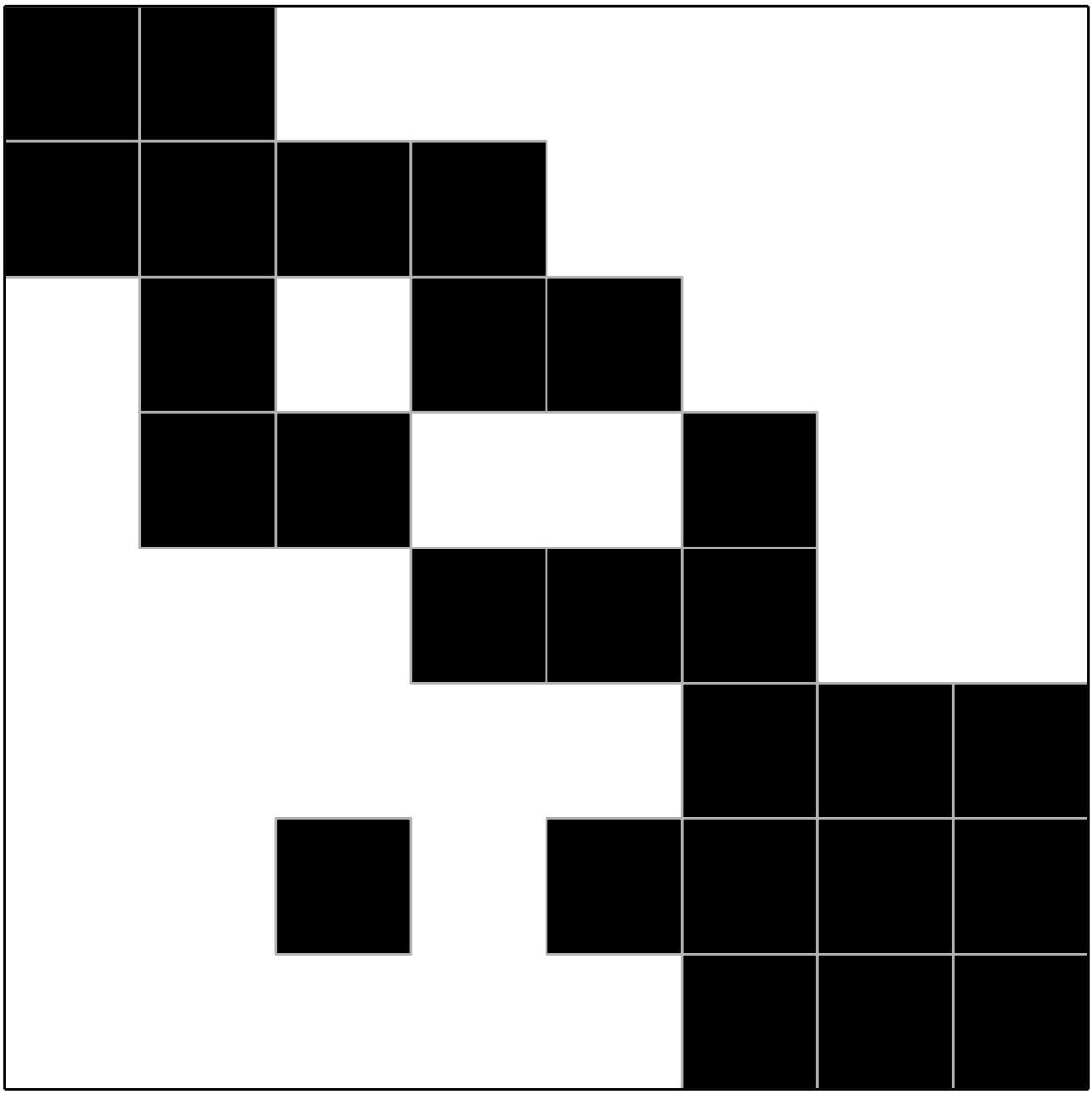
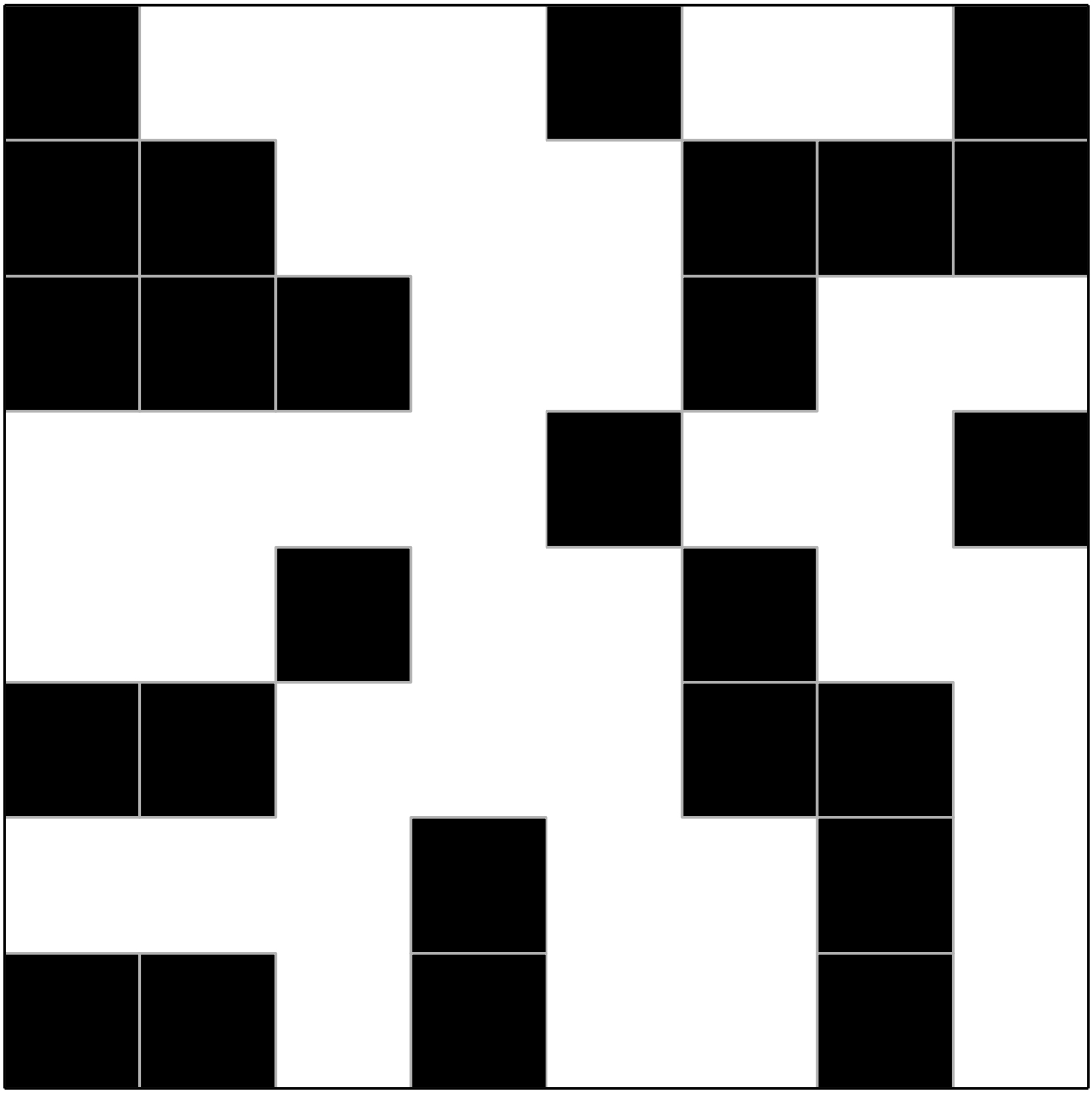
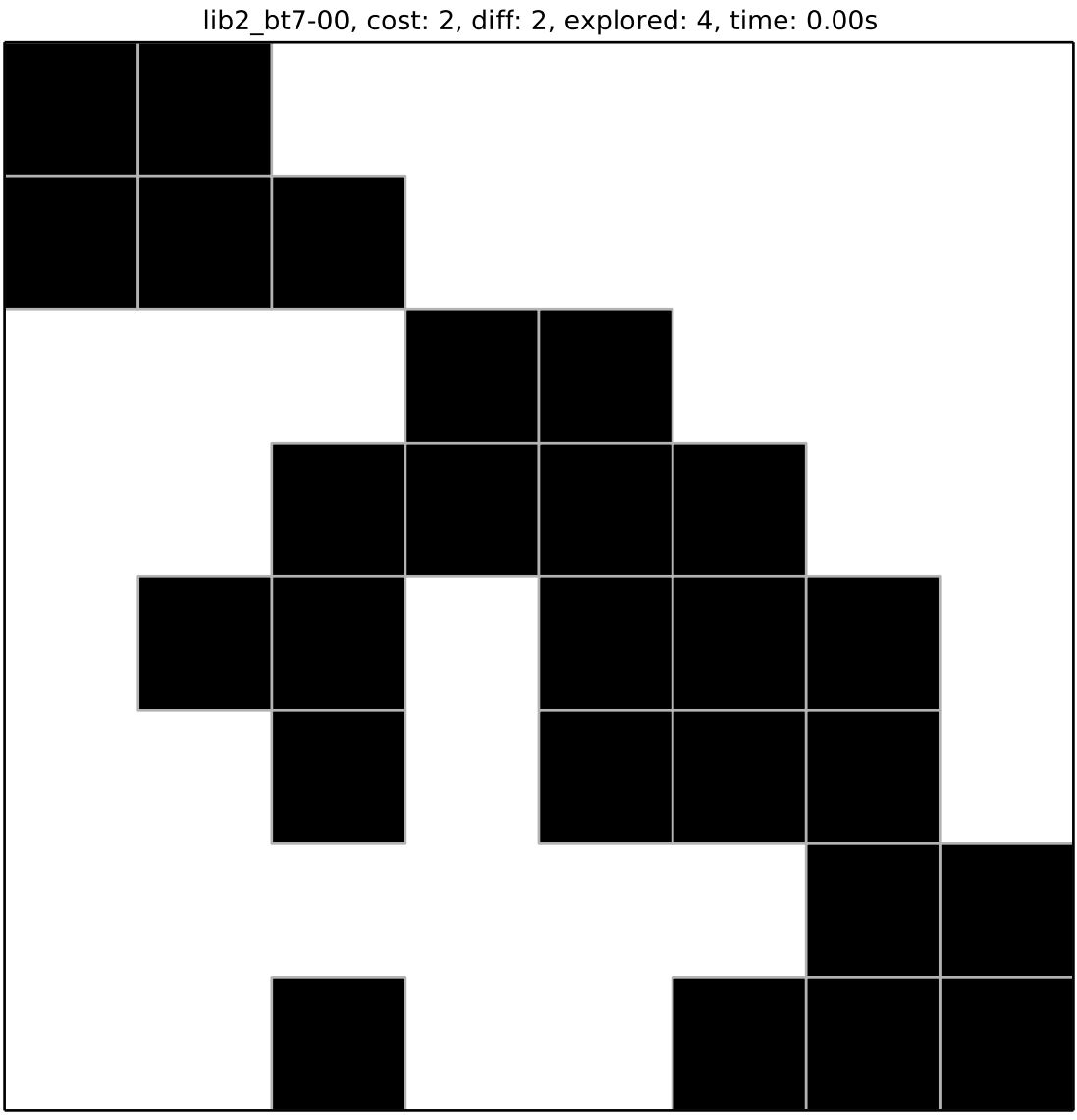

lib2_bt3-RE 8x8 (26) con: 3, var: 5

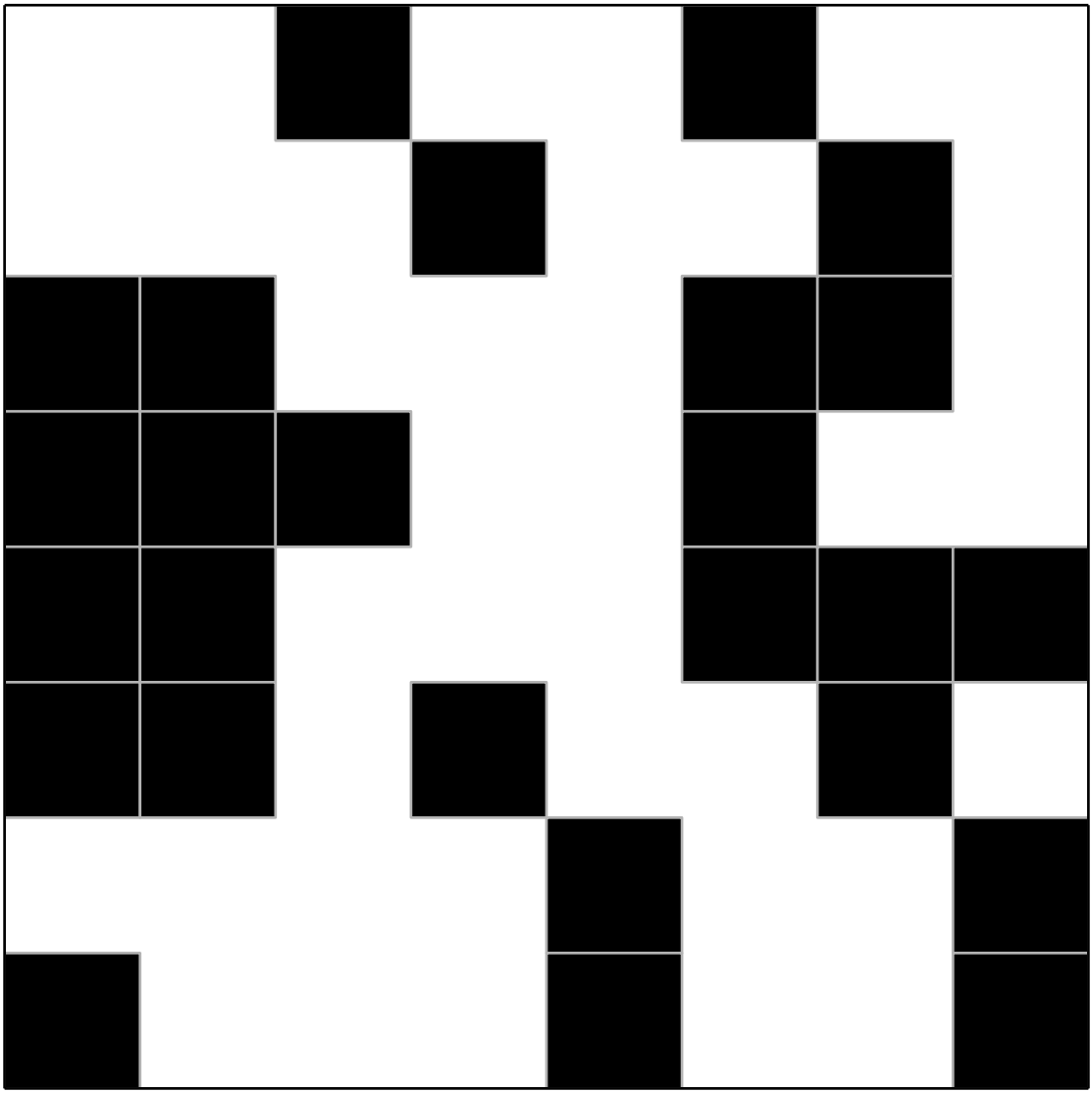

lib2_bt3-RE, cost: 3, diff: 3, explored: 4, time: 0.00s

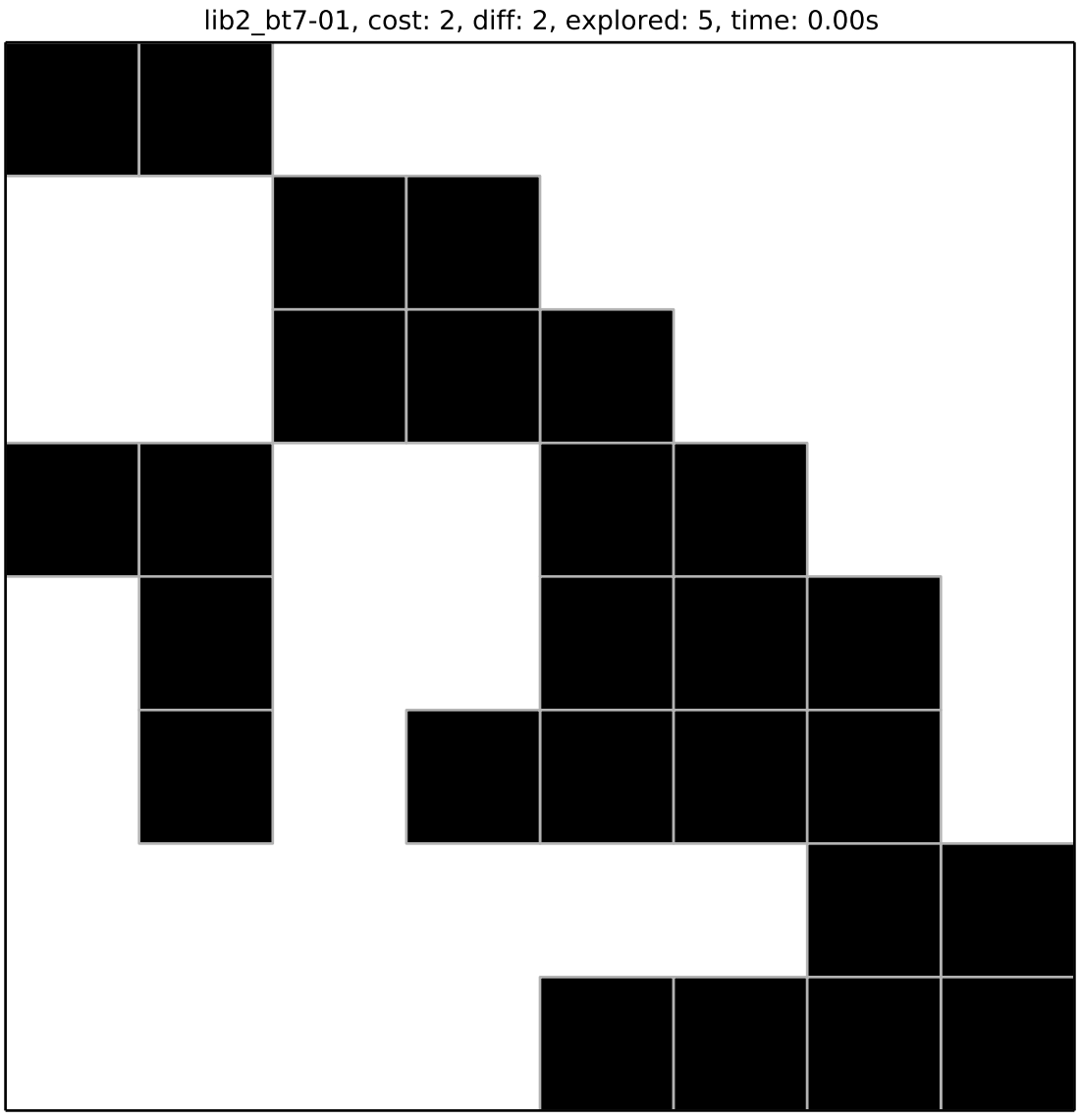
lib2_bt7-00 8x8 (26) con: 3, var: 5




lib2_bt7-00, cost: 2, diff: 2, explored: 4, time: 0.00s

lib2_bt7-01 8x8 (26) con: 3, var: 5

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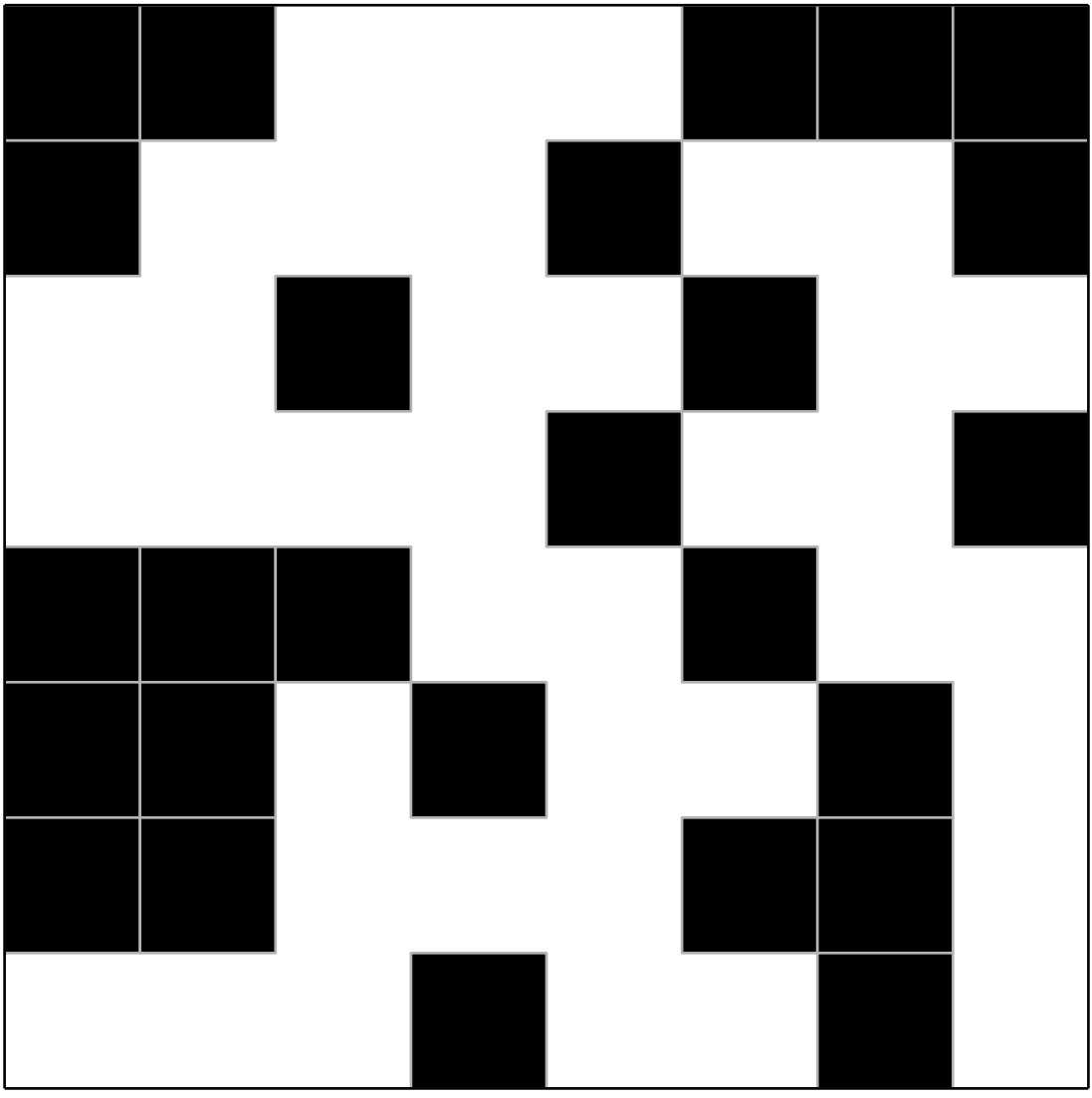
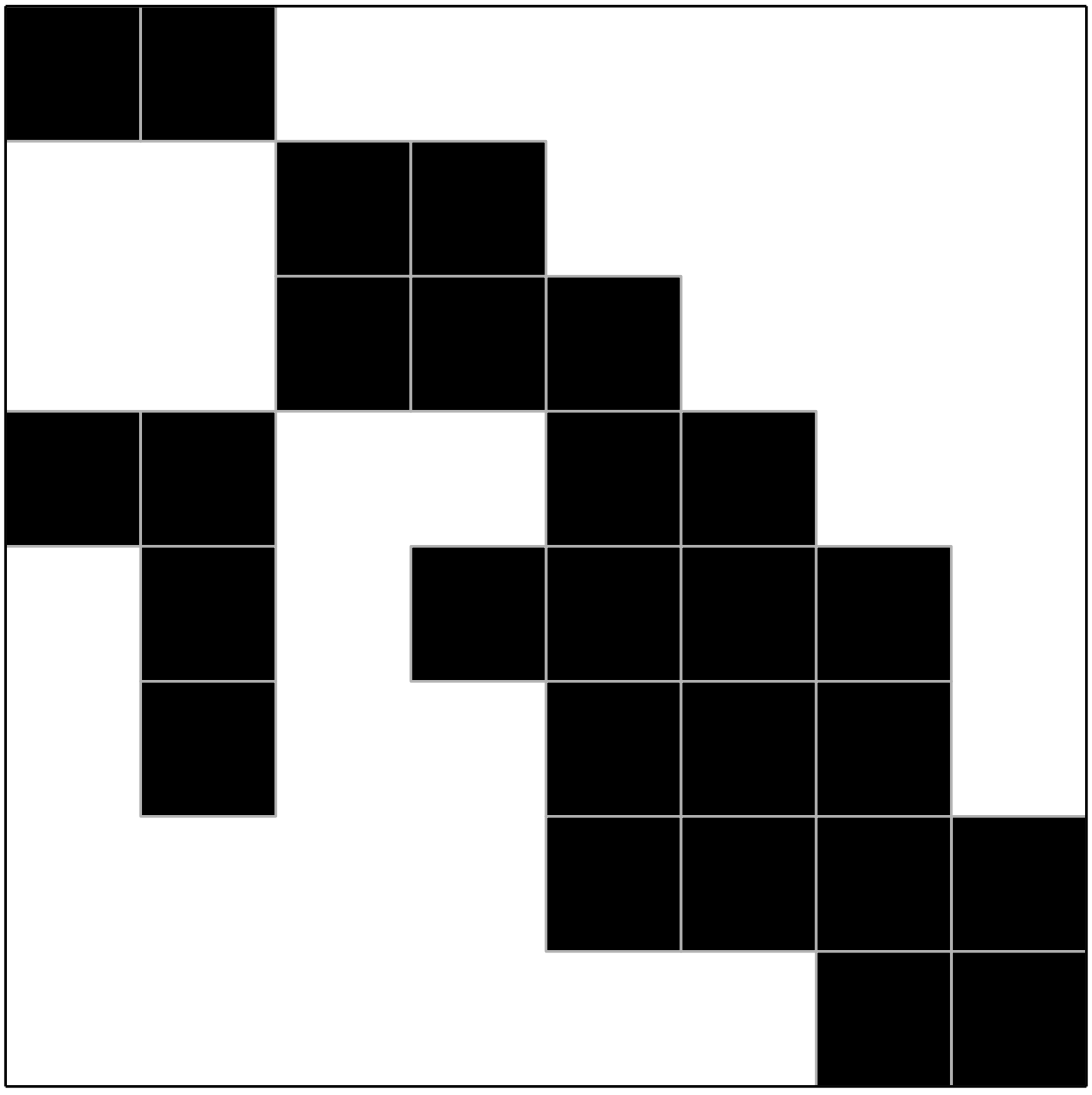
lib2_bt7-02 8x8 (26) con: 3, var: 5

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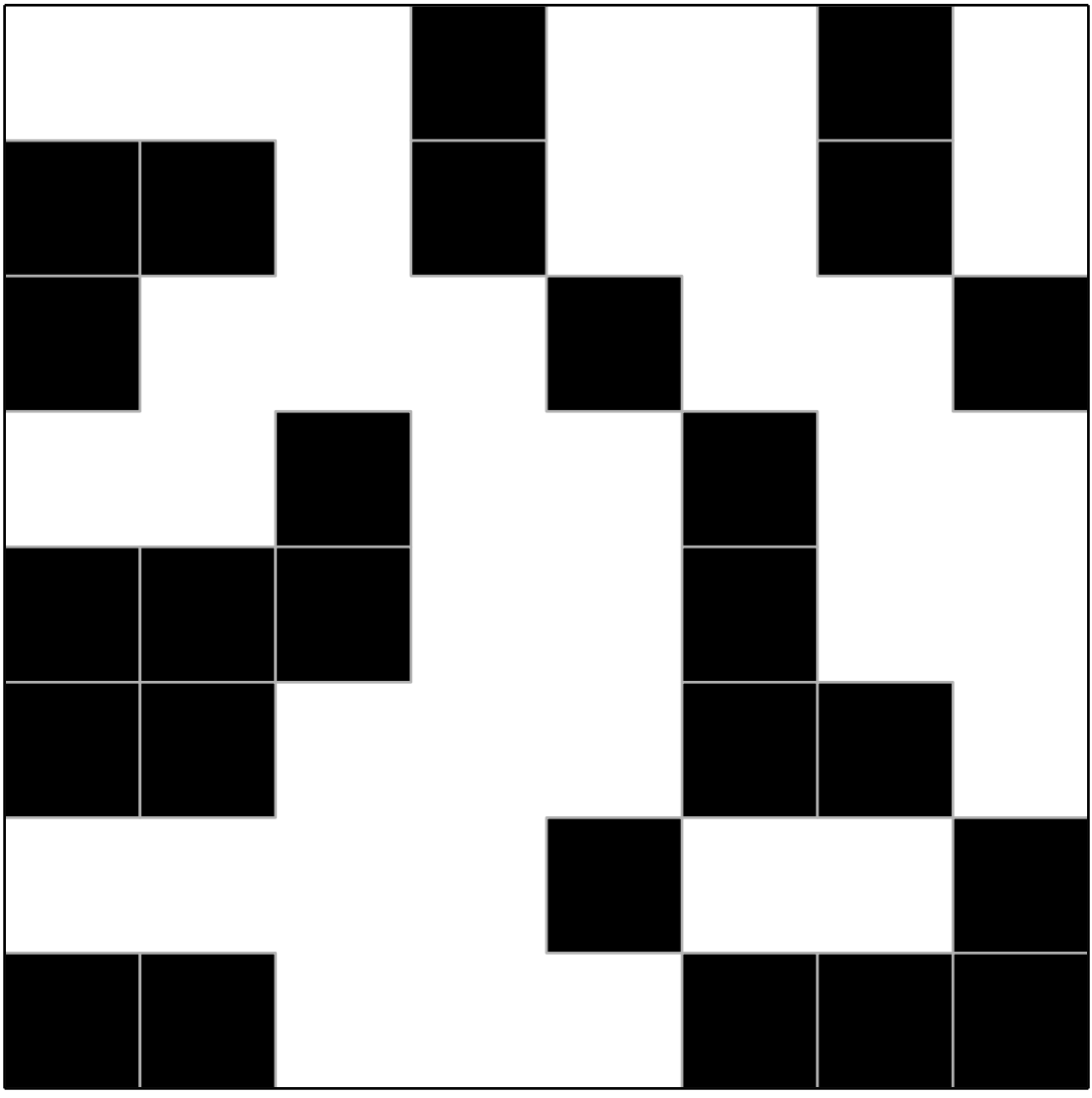
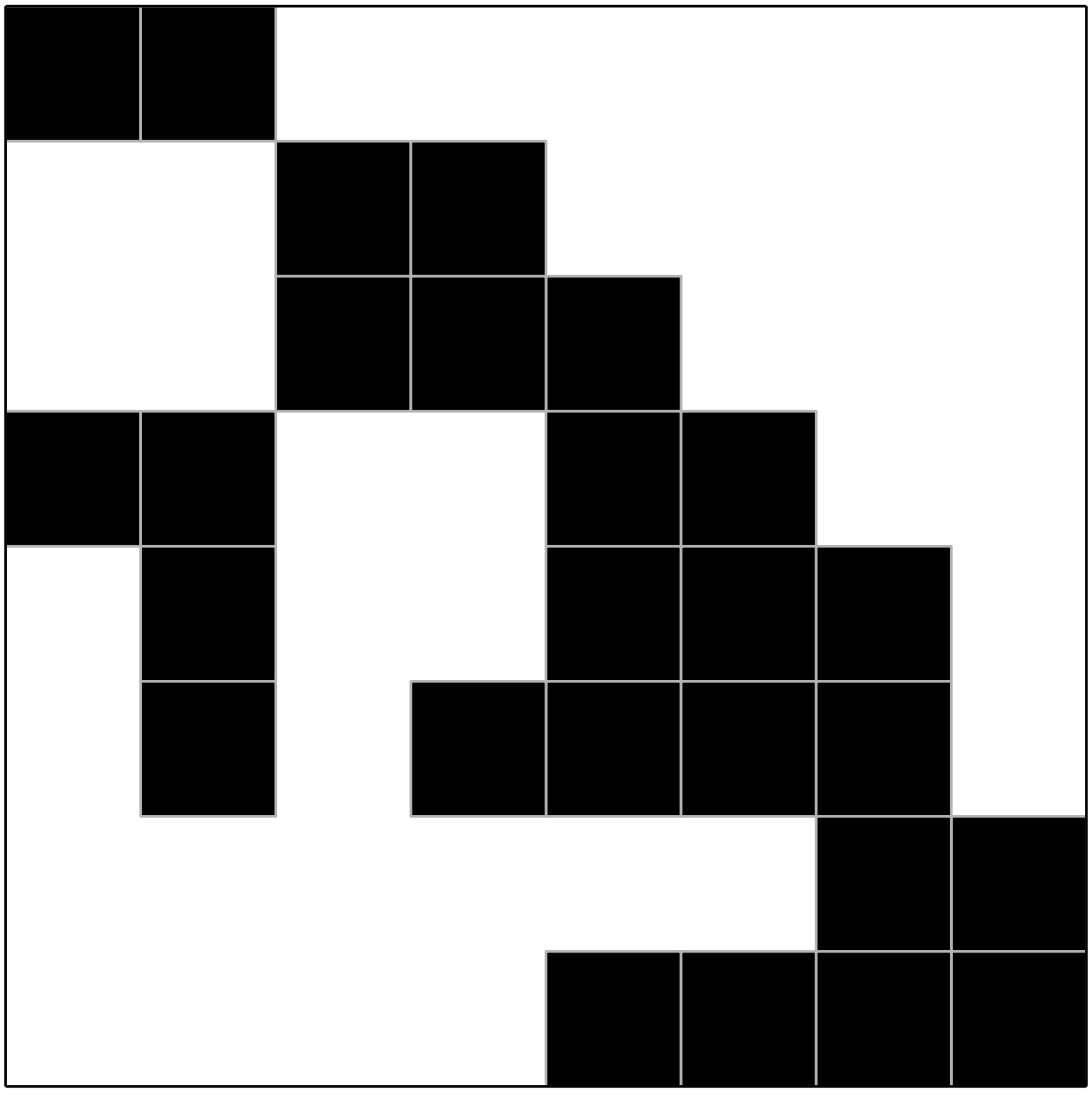
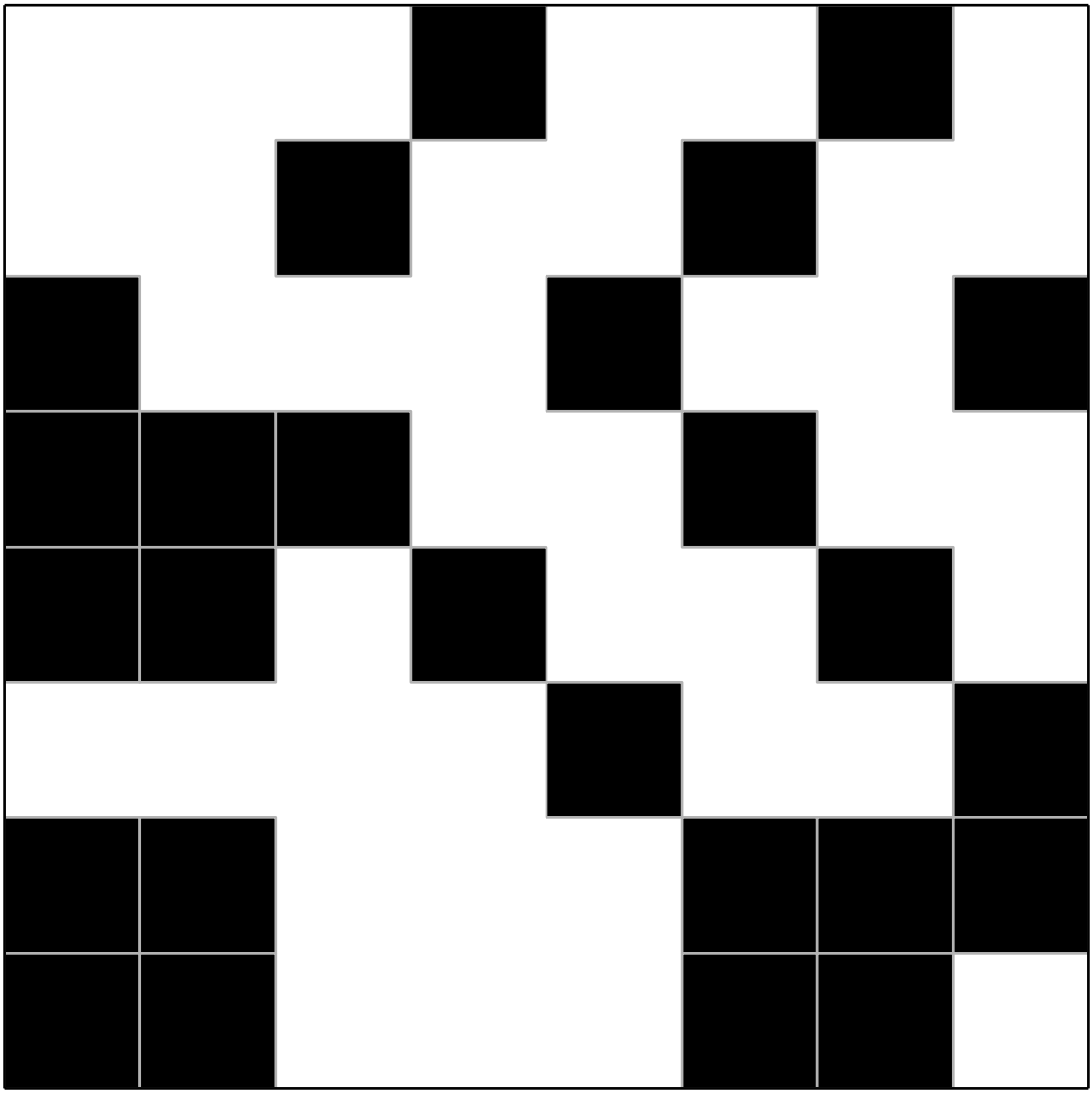
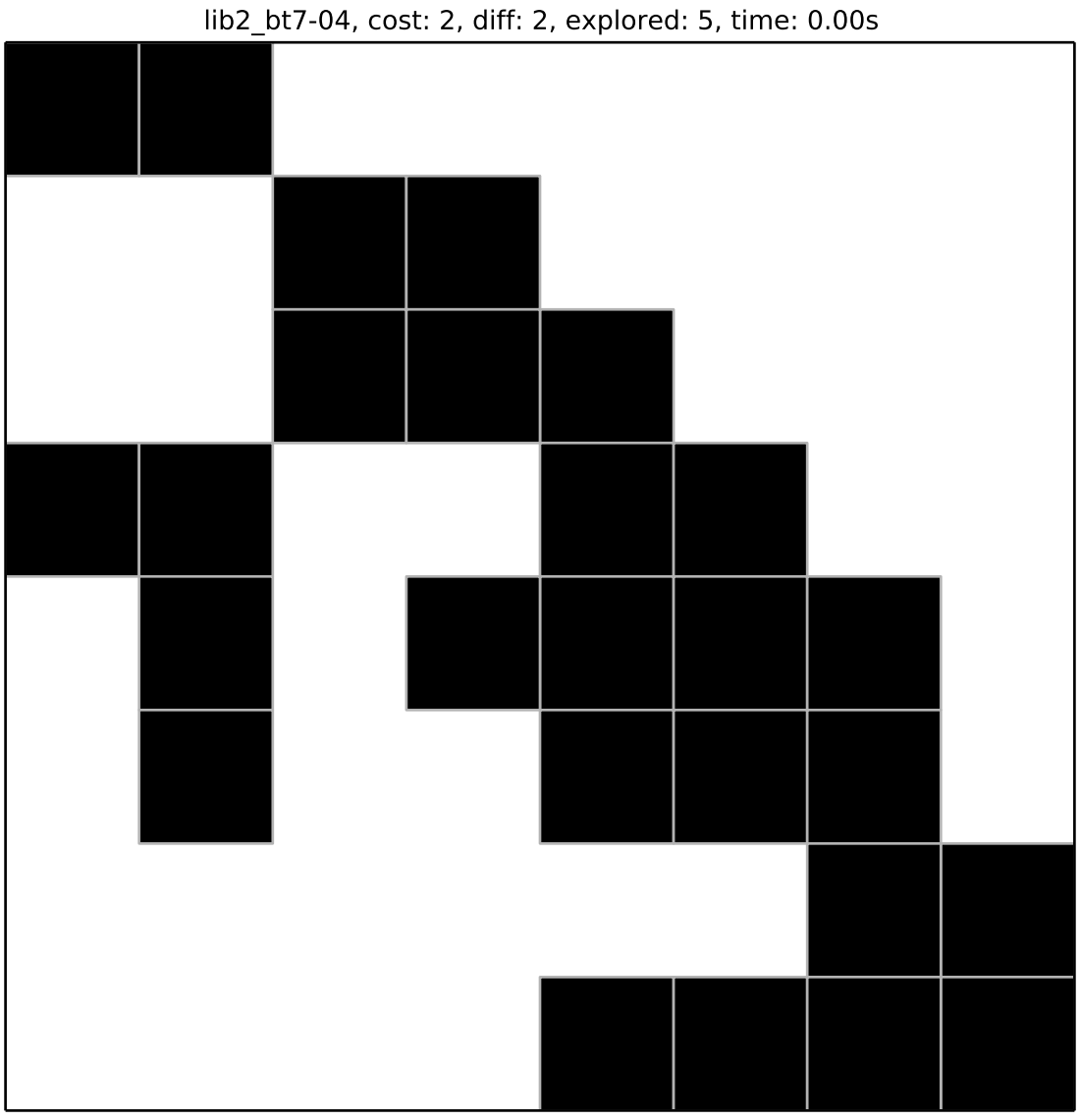
lib2_bt7-03 8x8 (26) con: 3, var: 5



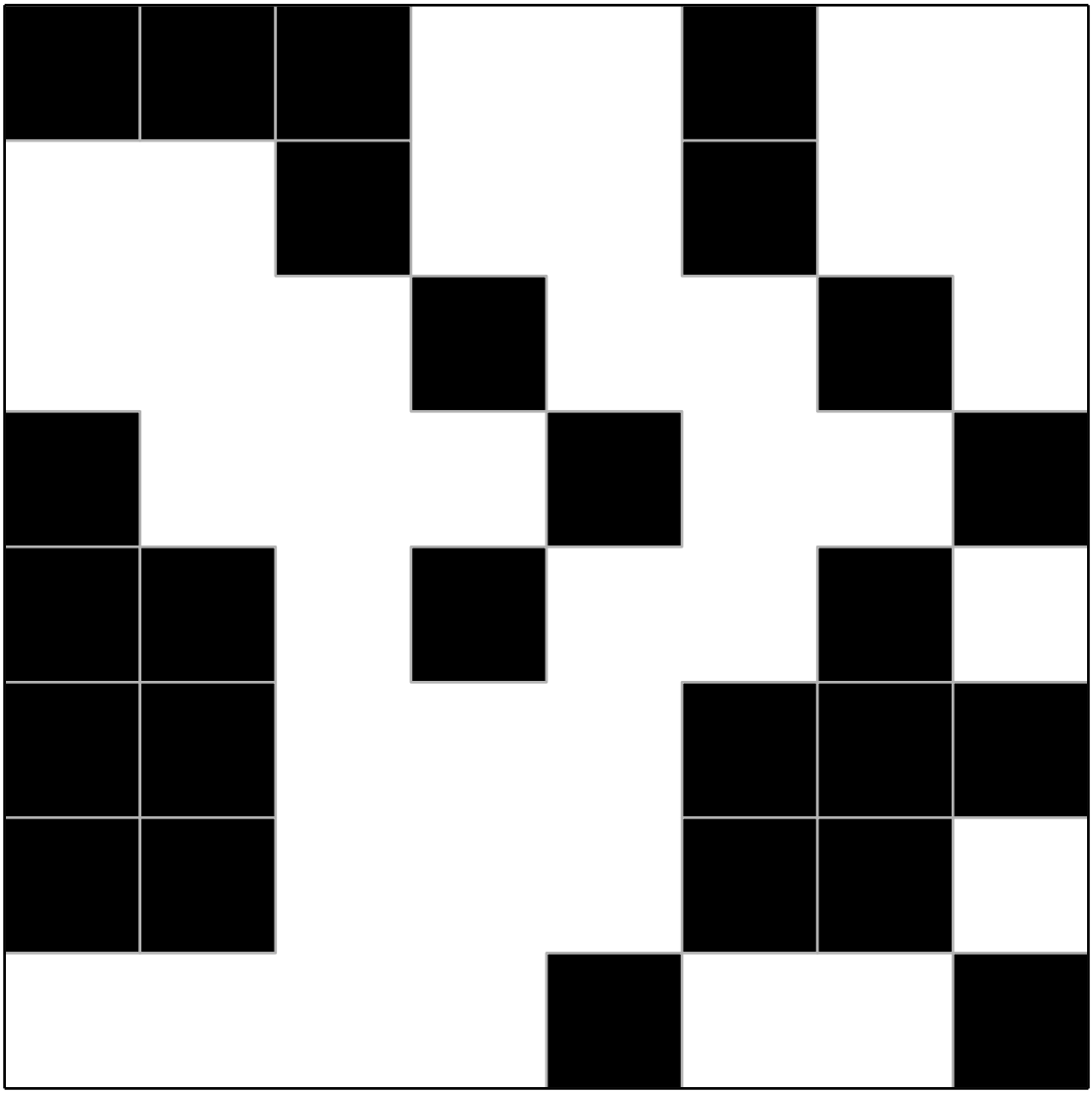

lib2_bt7-03, cost: 2, diff: 2, explored: 5, time: 0.00s

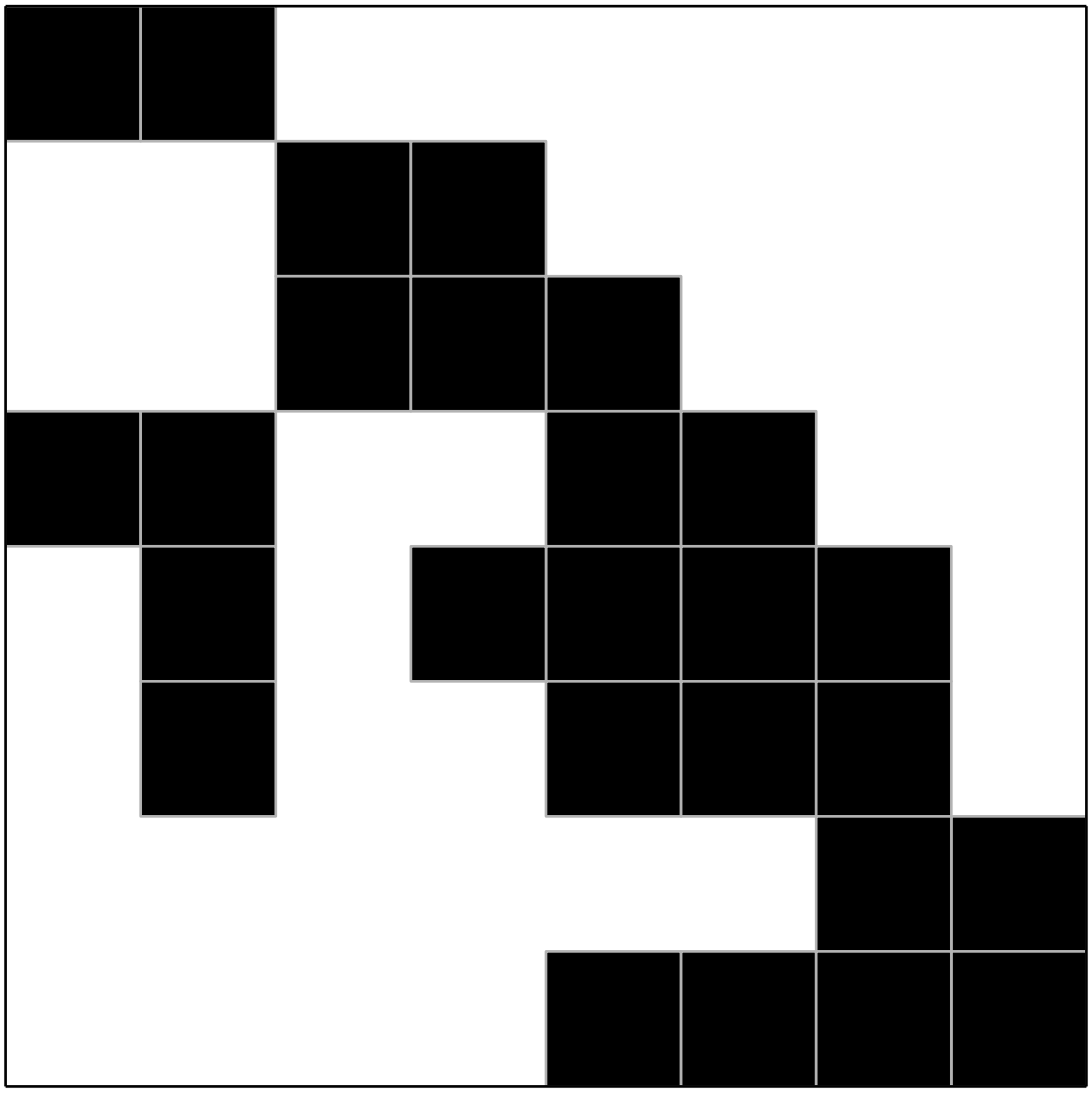
lib2_bt7-04 8x8 (26) con: 3, var: 5



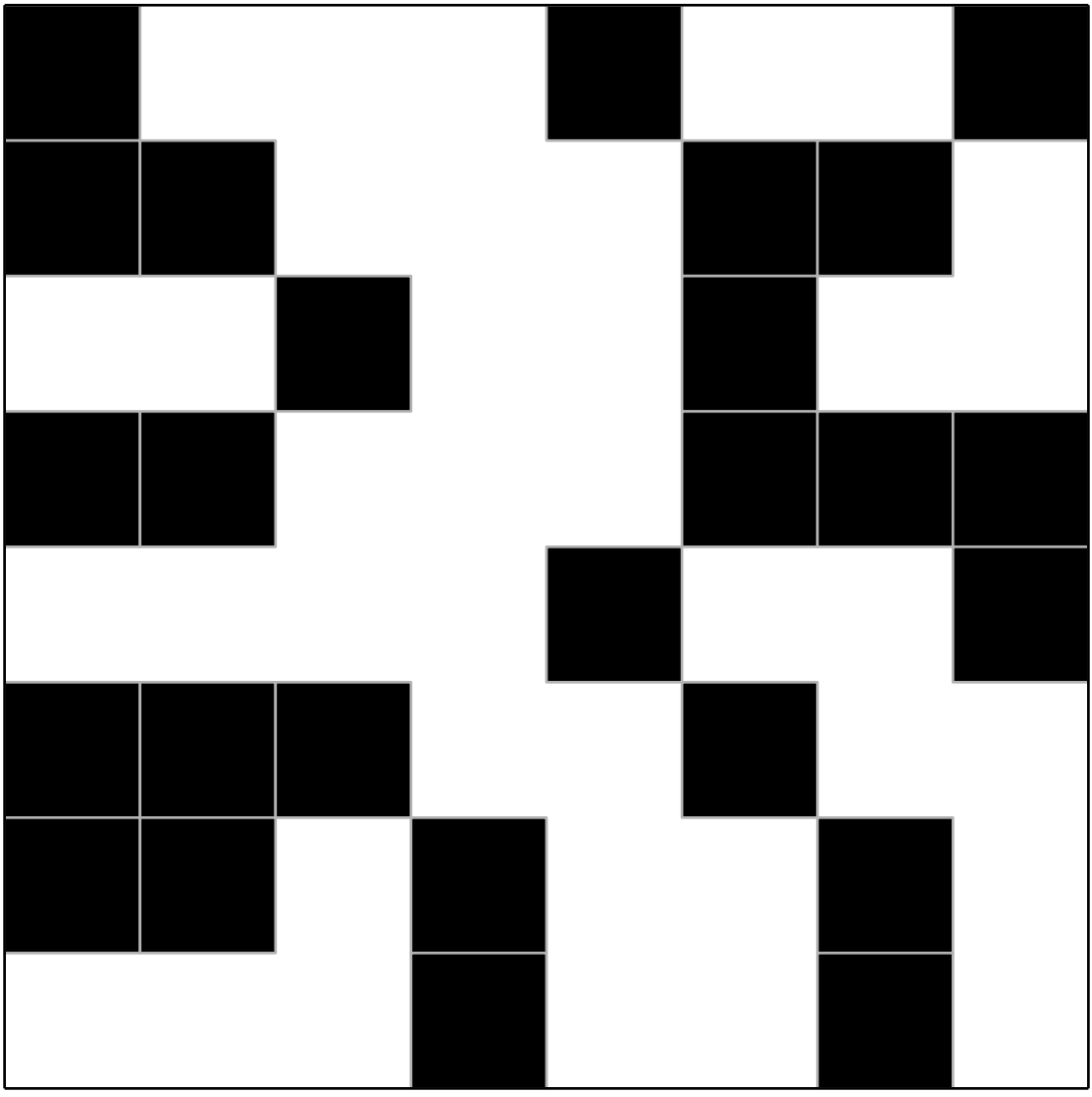

lib2_bt7-04, cost: 2, diff: 2, explored: 5, time: 0.00s

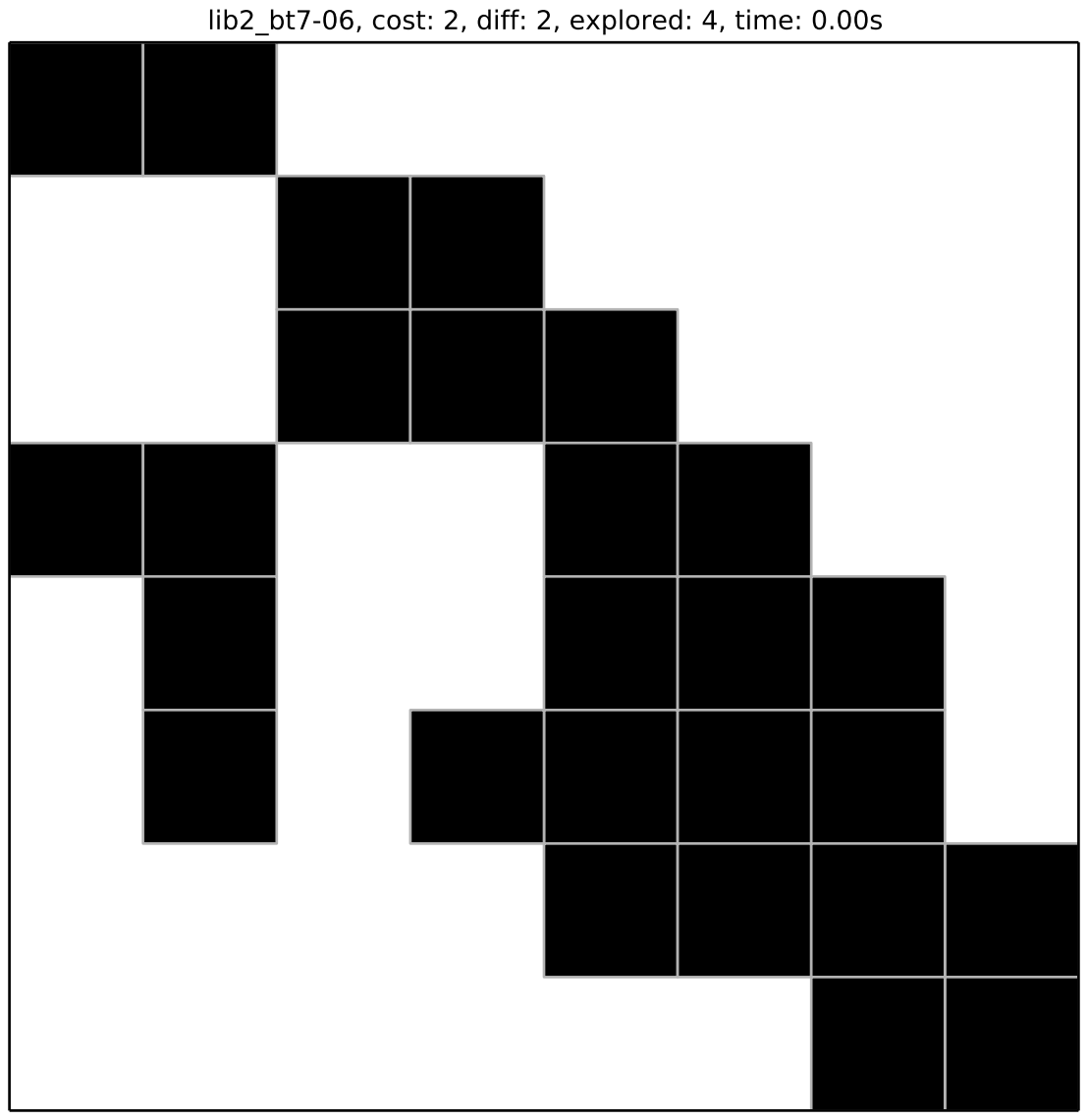
lib2_bt7-05 8x8 (26) con: 3, var: 5




lib2_bt7-05, cost: 2, diff: 2, explored: 5, time: 0.00s

lib2_bt7-06 8x8 (26) con: 3, var: 5

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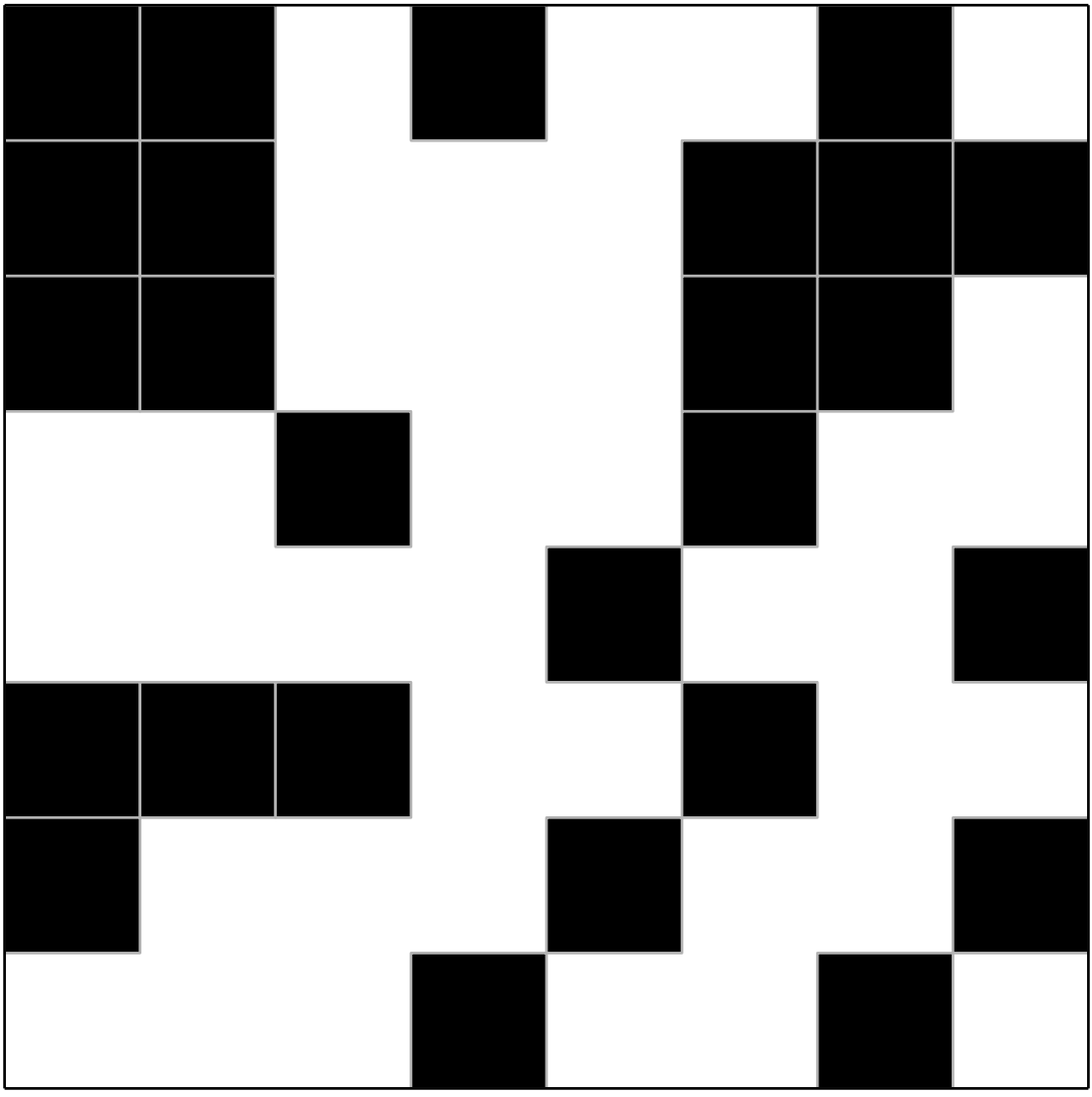
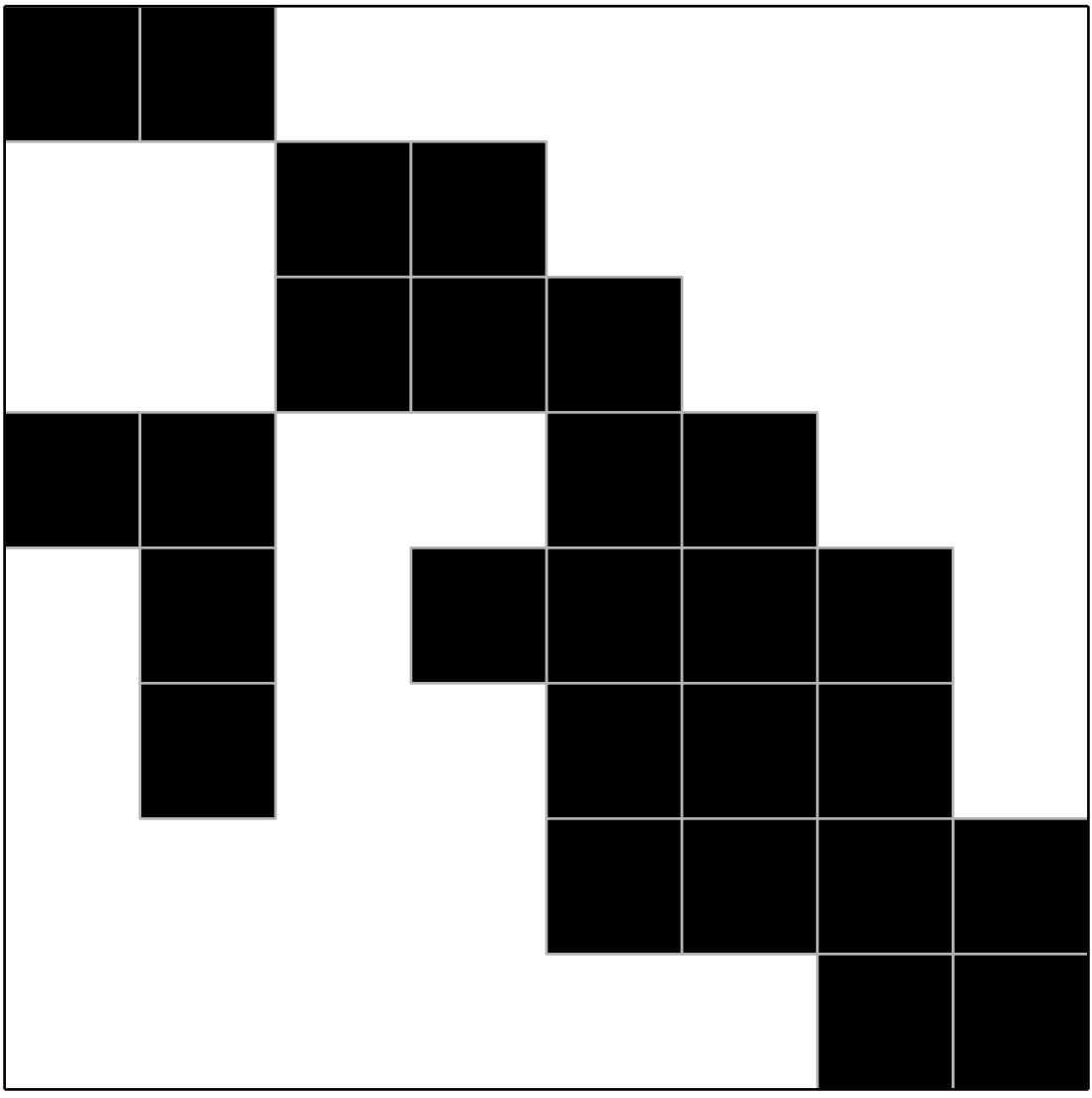
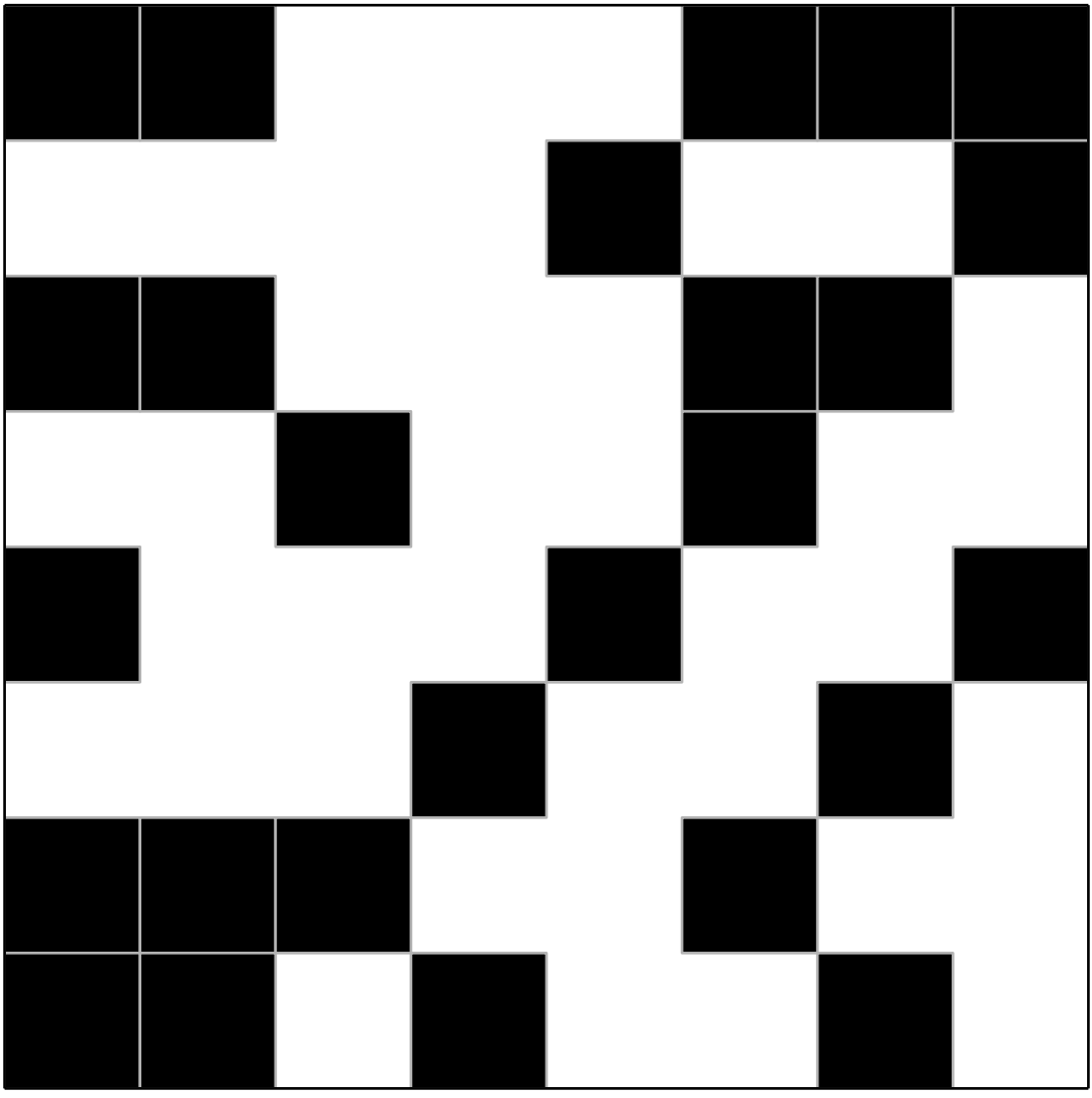
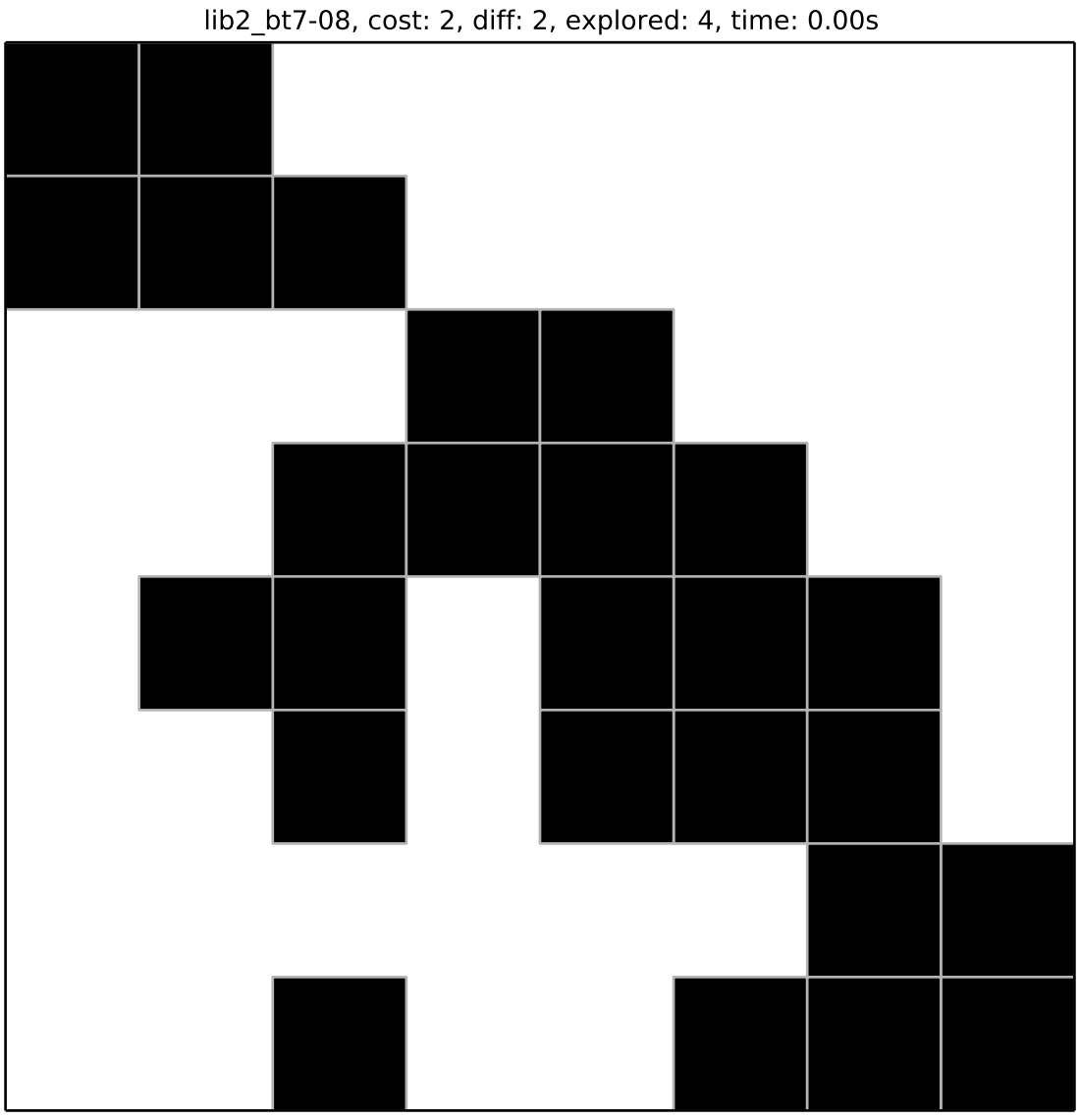
lib2_bt7-07 8x8 (26) con: 3, var: 5




lib2_bt7-07, cost: 2, diff: 2, explored: 4, time: 0.00s

lib2_bt7-08 8x8 (26) con: 3, var: 5

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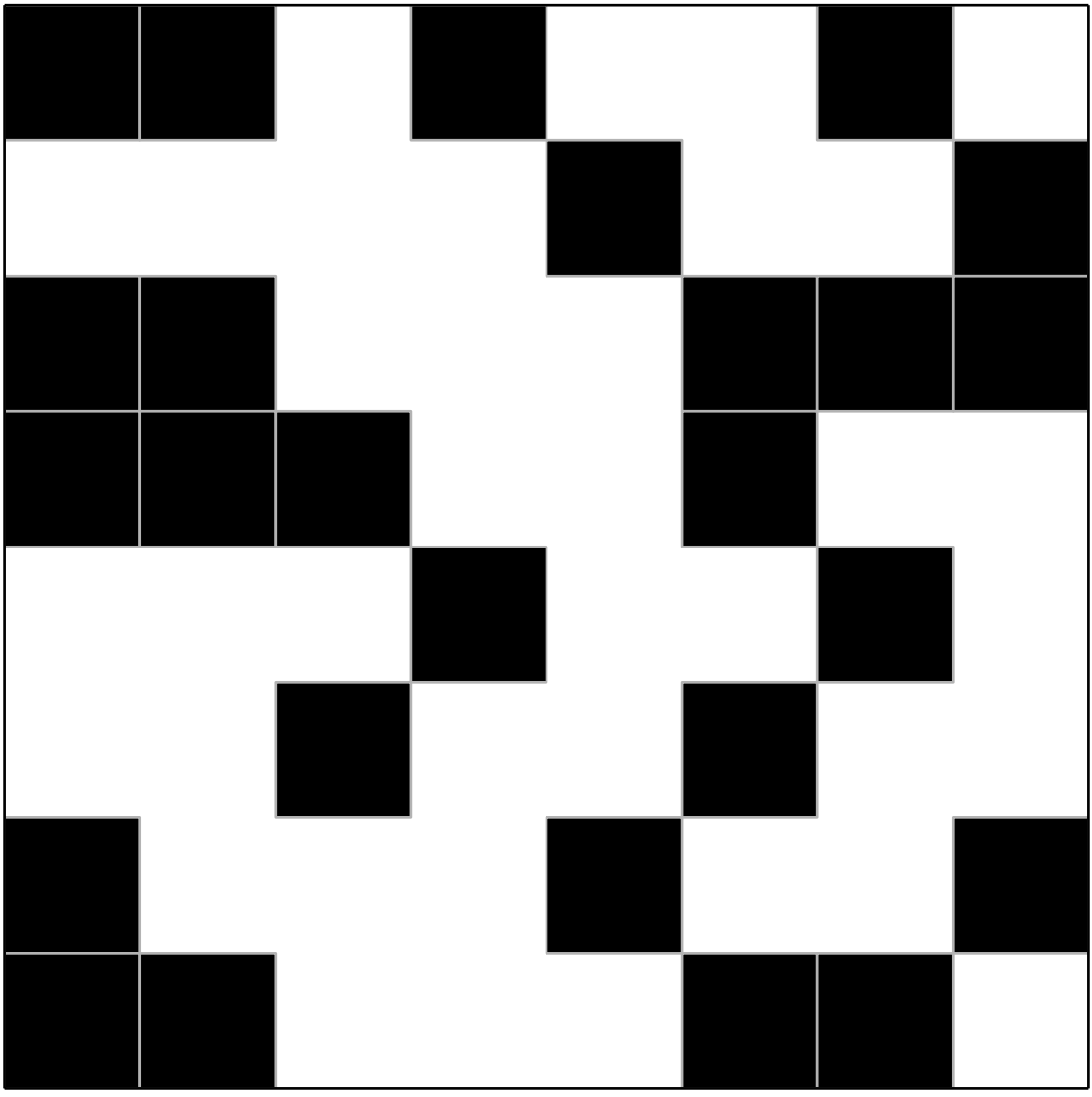
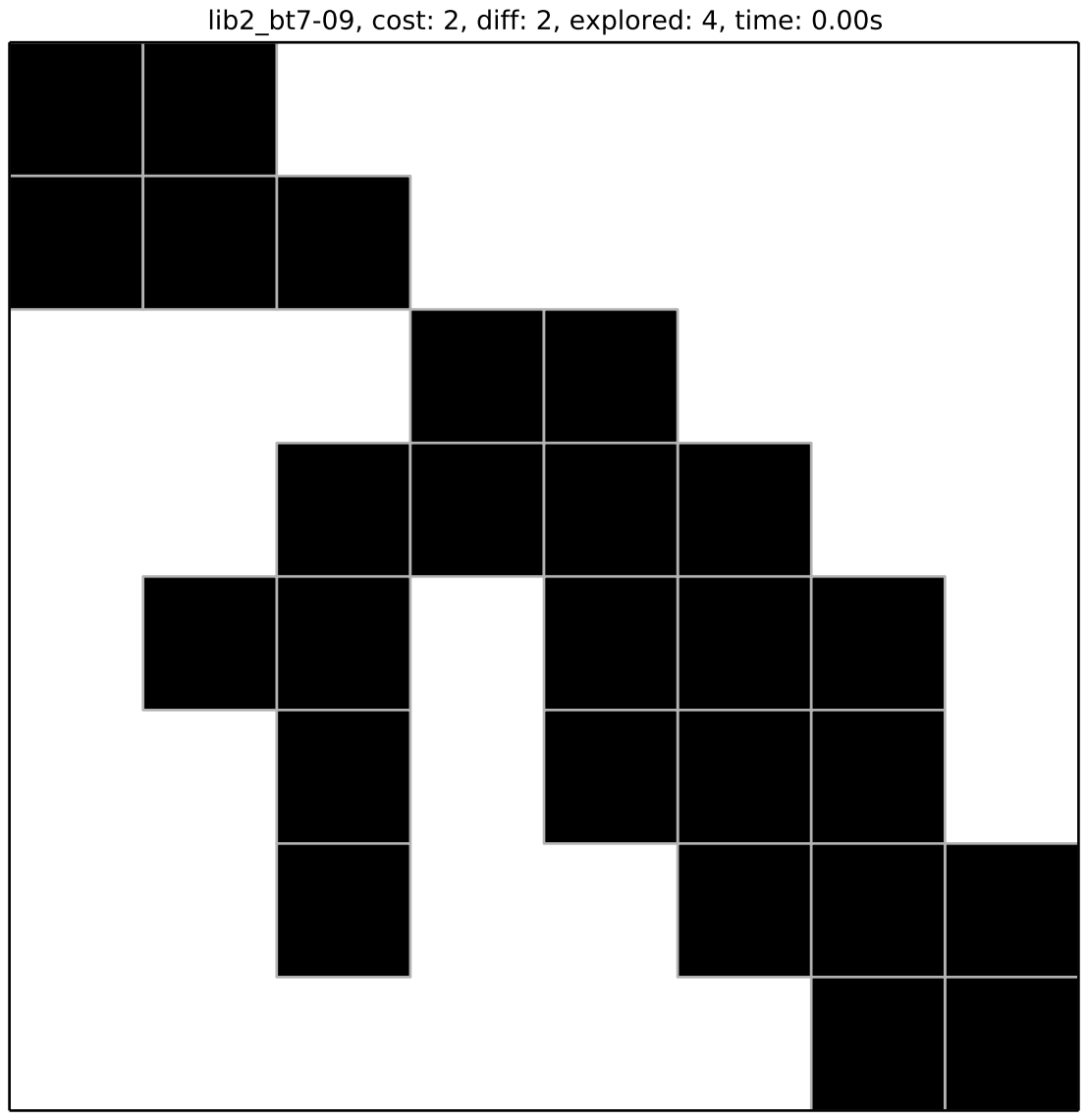
lib2_bt7-09 8x8 (26) con: 3, var: 5

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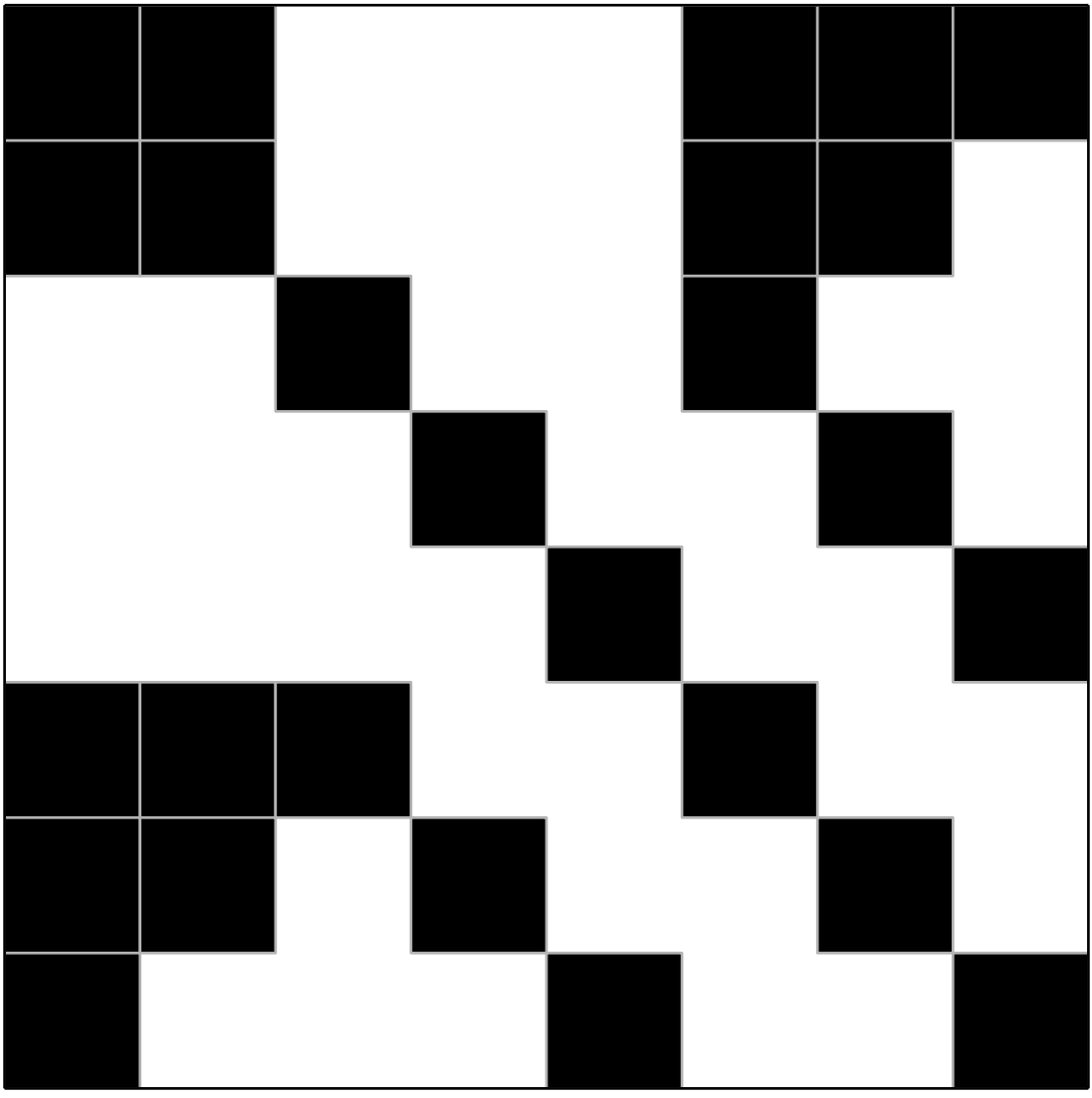
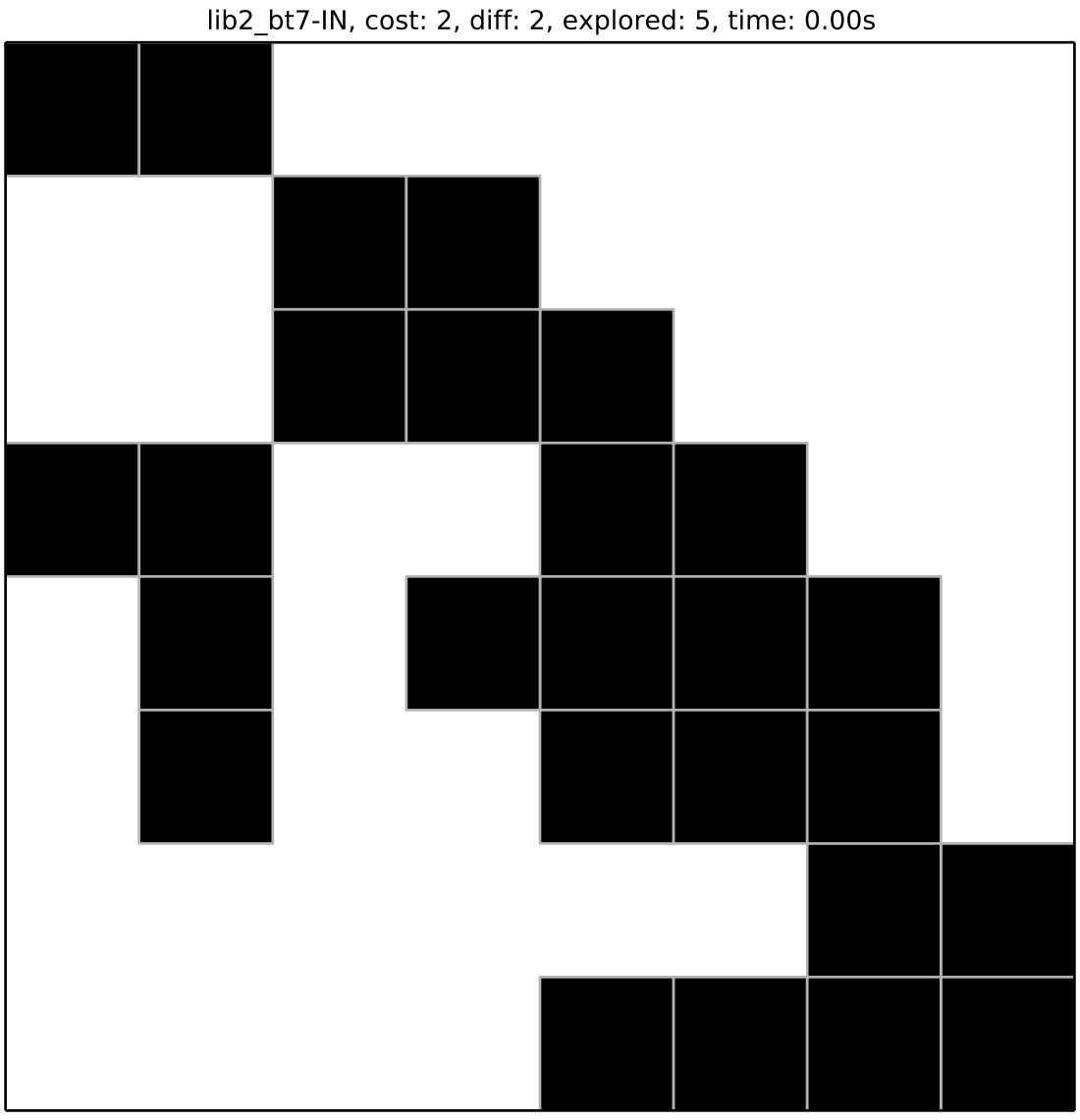
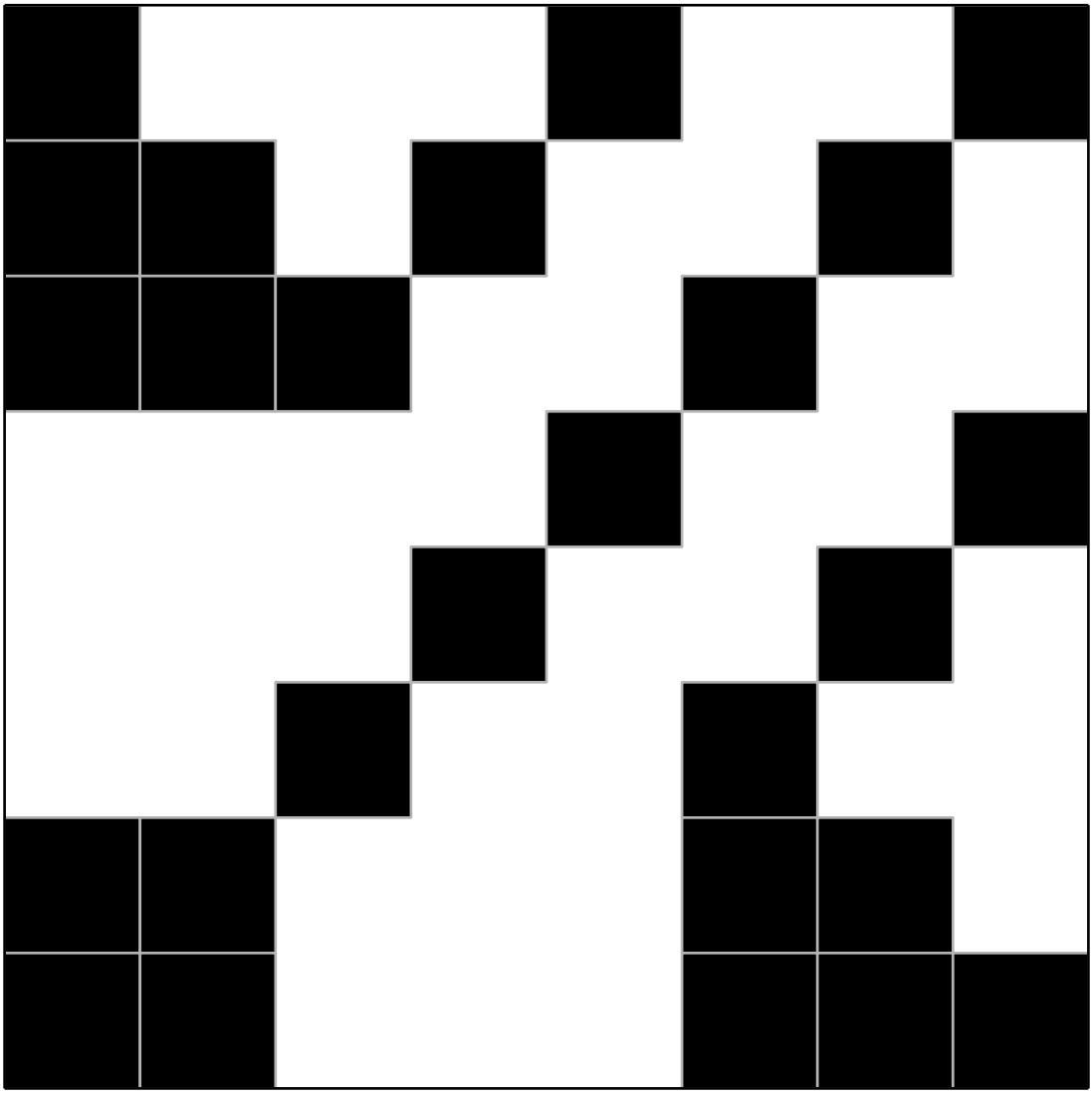
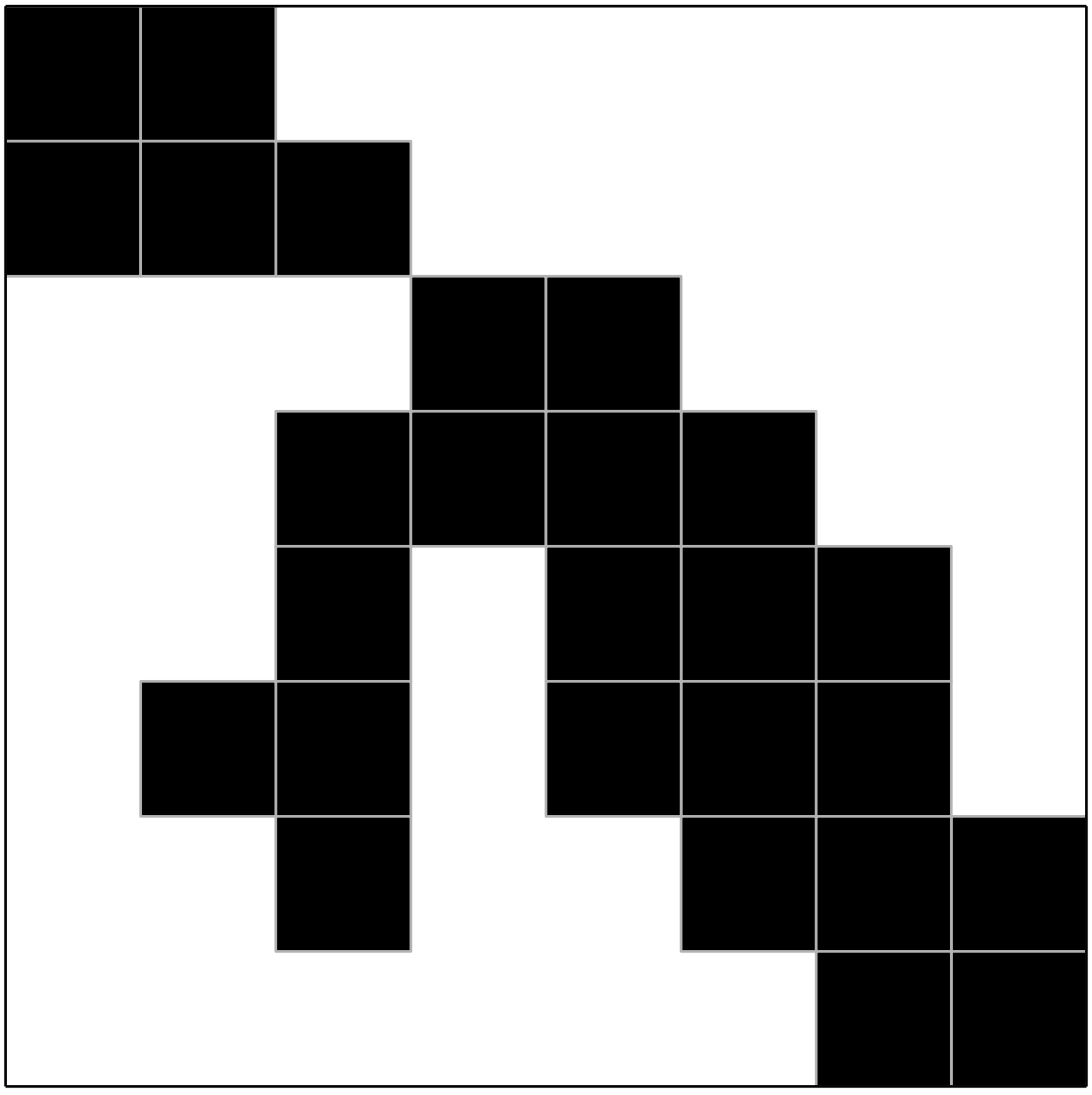
lib2_bt7-IN 8x8 (26) con: 3, var: 5



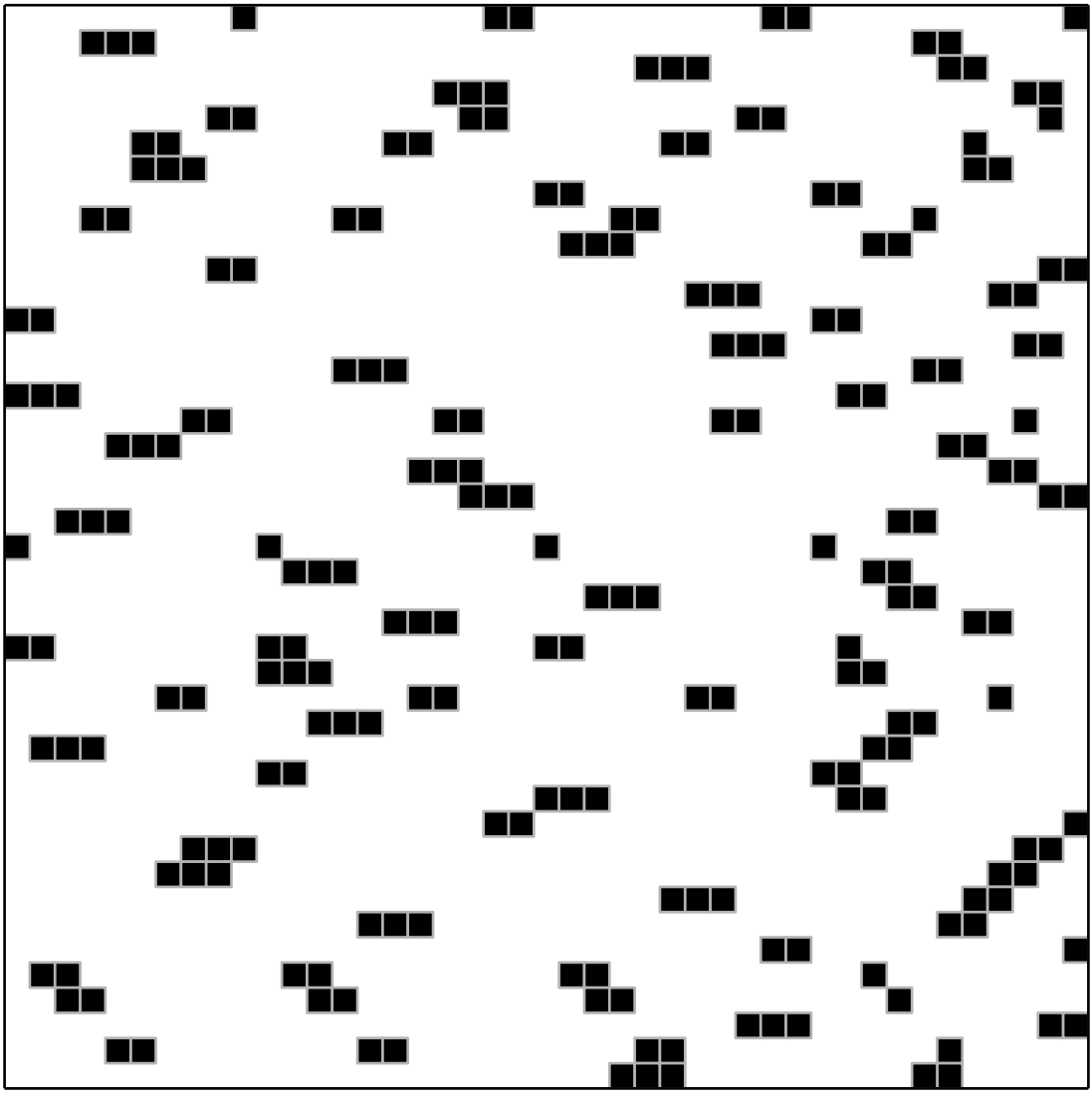

lib2_bt7-IN, cost: 2, diff: 2, explored: 5, time: 0.00s

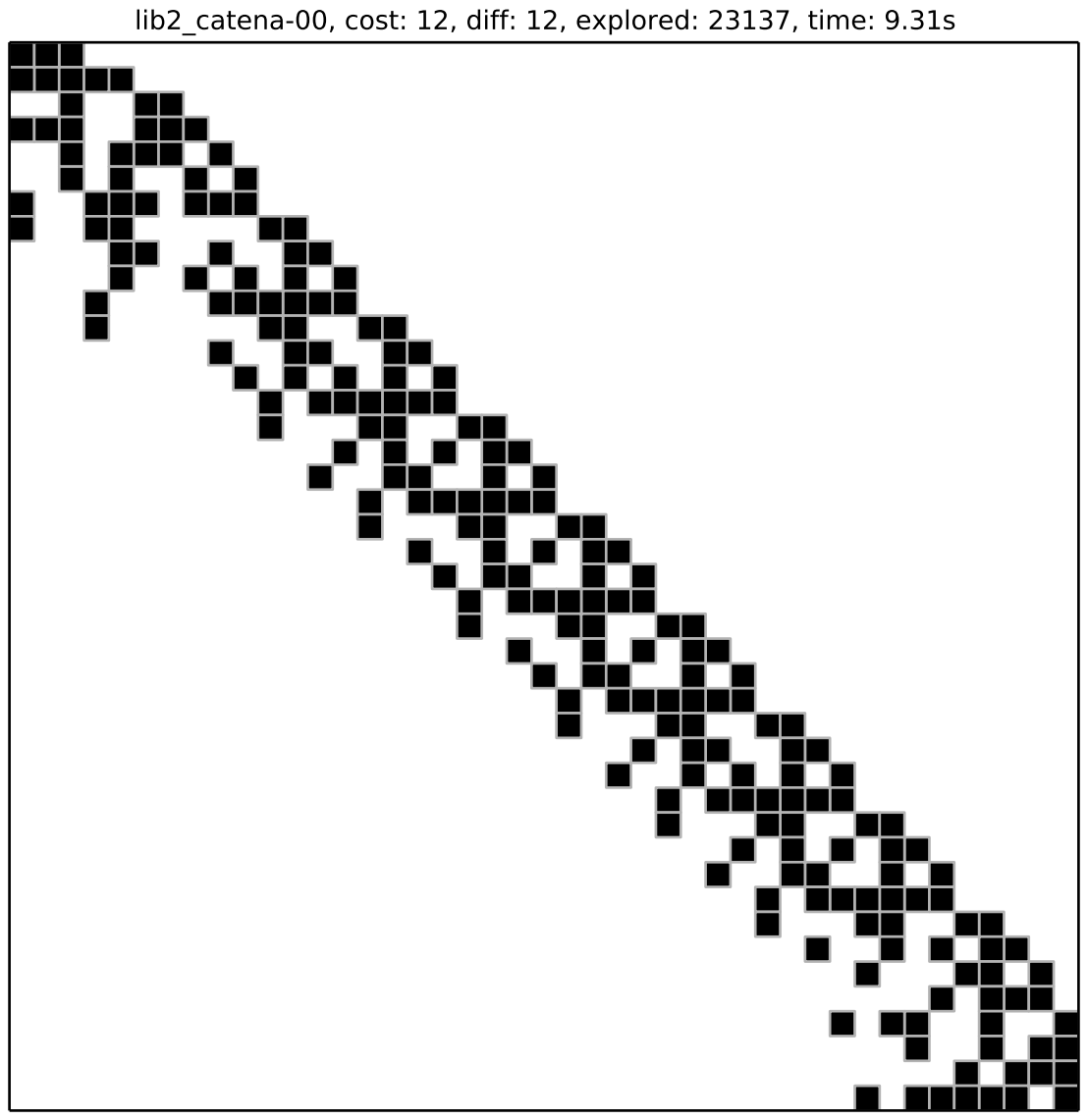
lib2_bt7-RE 8x8 (26) con: 3, var: 5

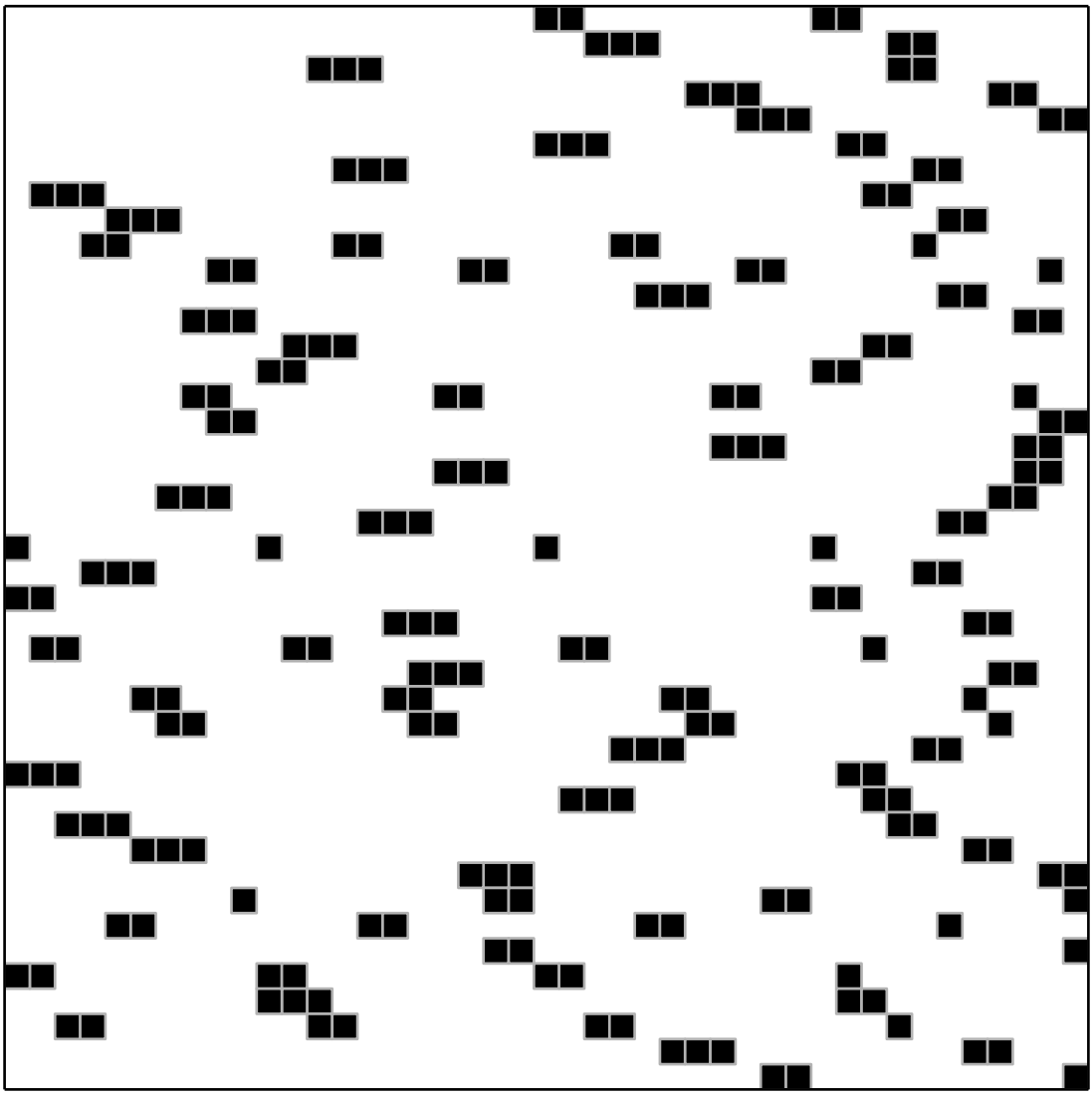


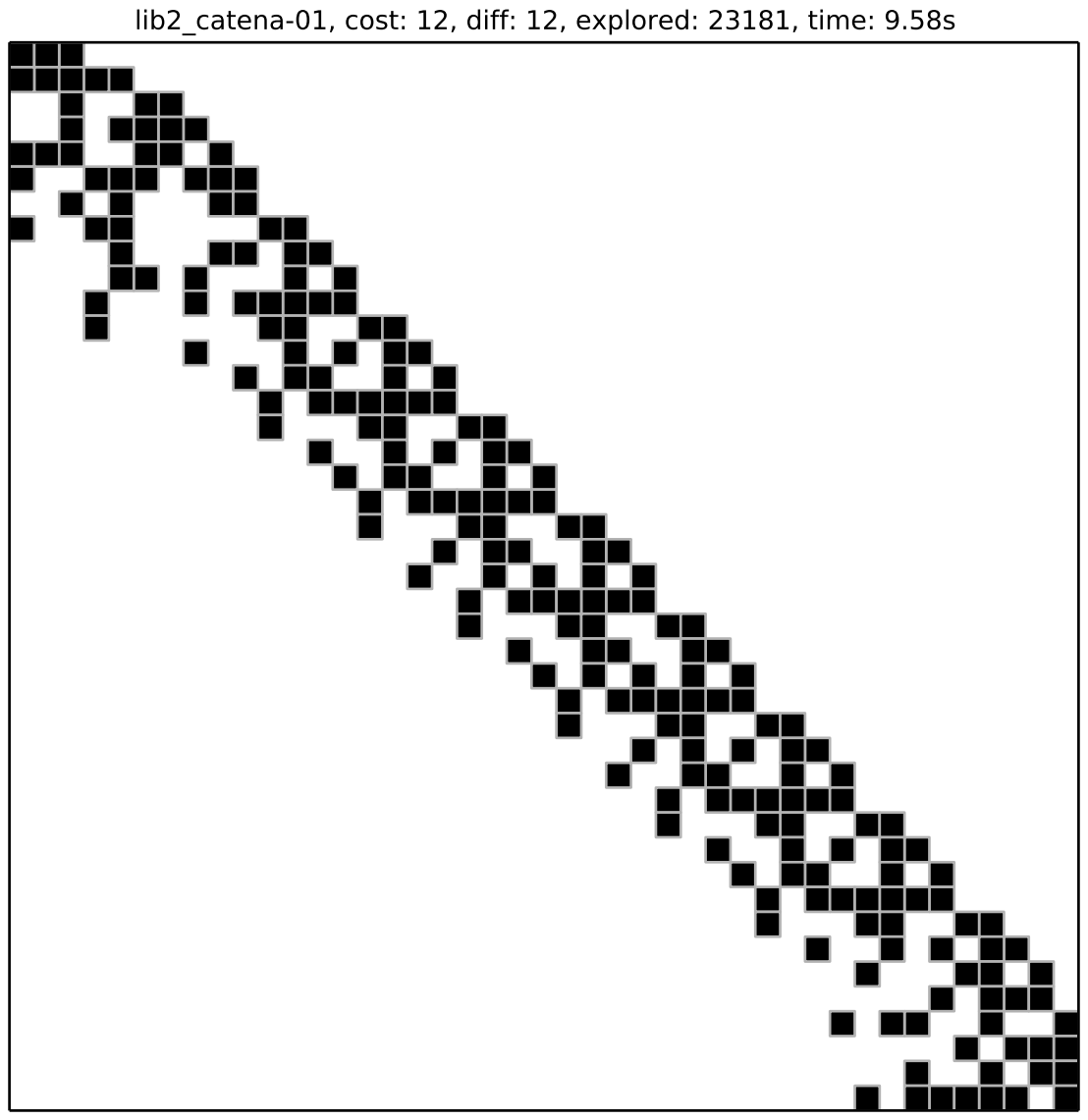

lib2_bt7-RE, cost: 2, diff: 2, explored: 4, time: 0.00s

lib2_catena-00 43x43 (225) con: 11, var: 32

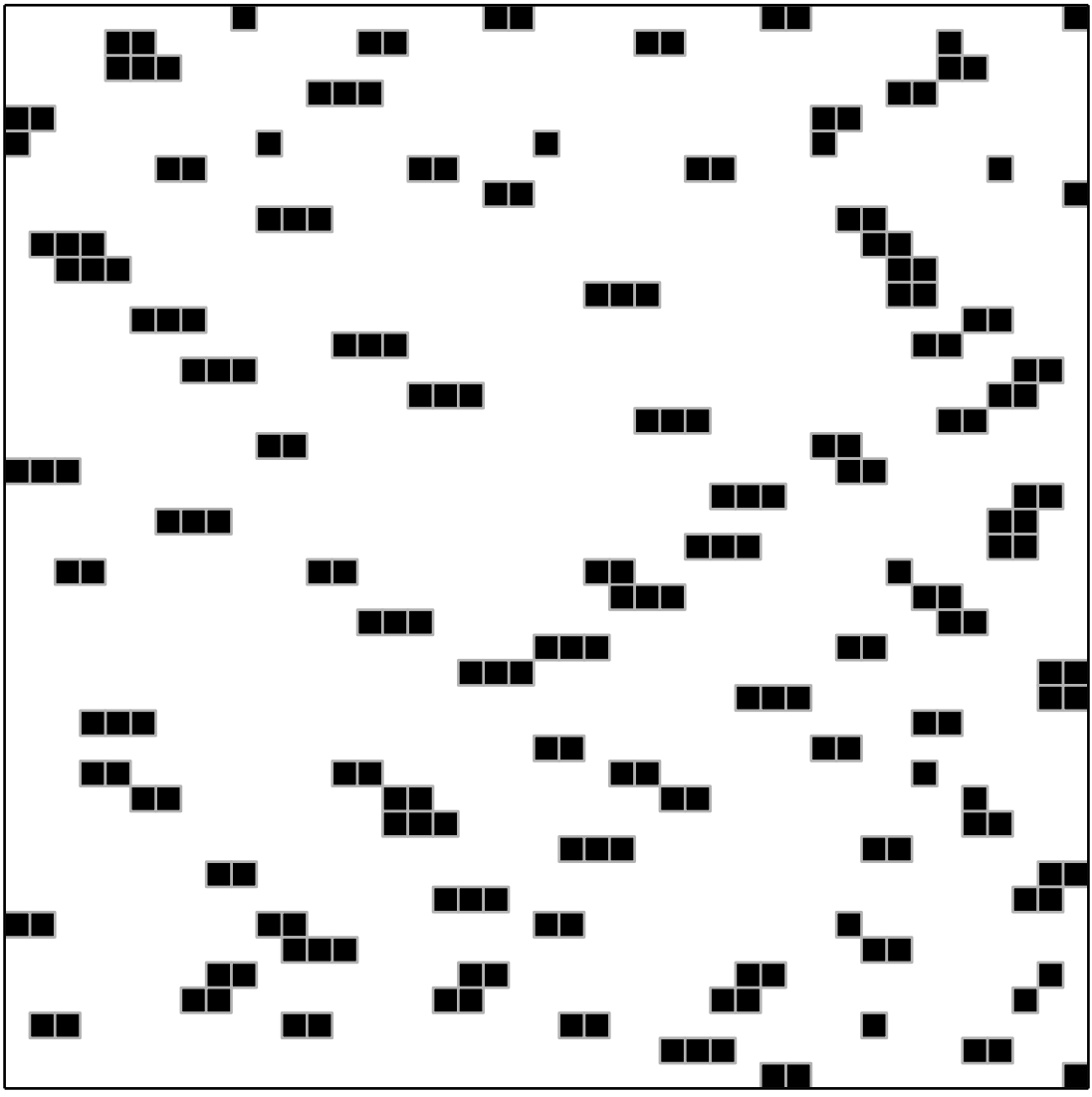


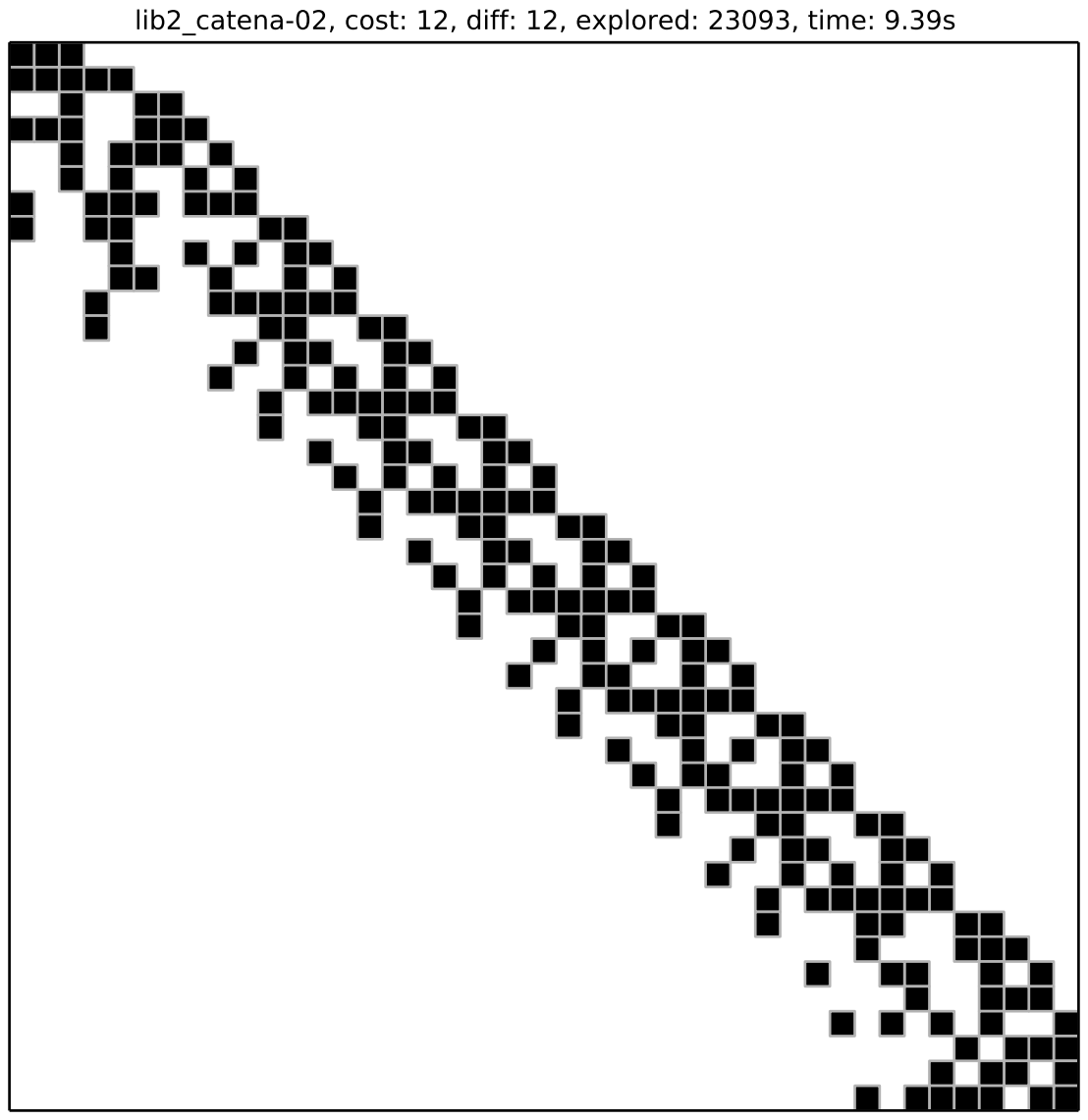

lib2_catena-00, cost: 12, diff: 12, explored: 23137, time: 9.31s


lib2_catena-01 43x43 (225) con: 11, var: 32

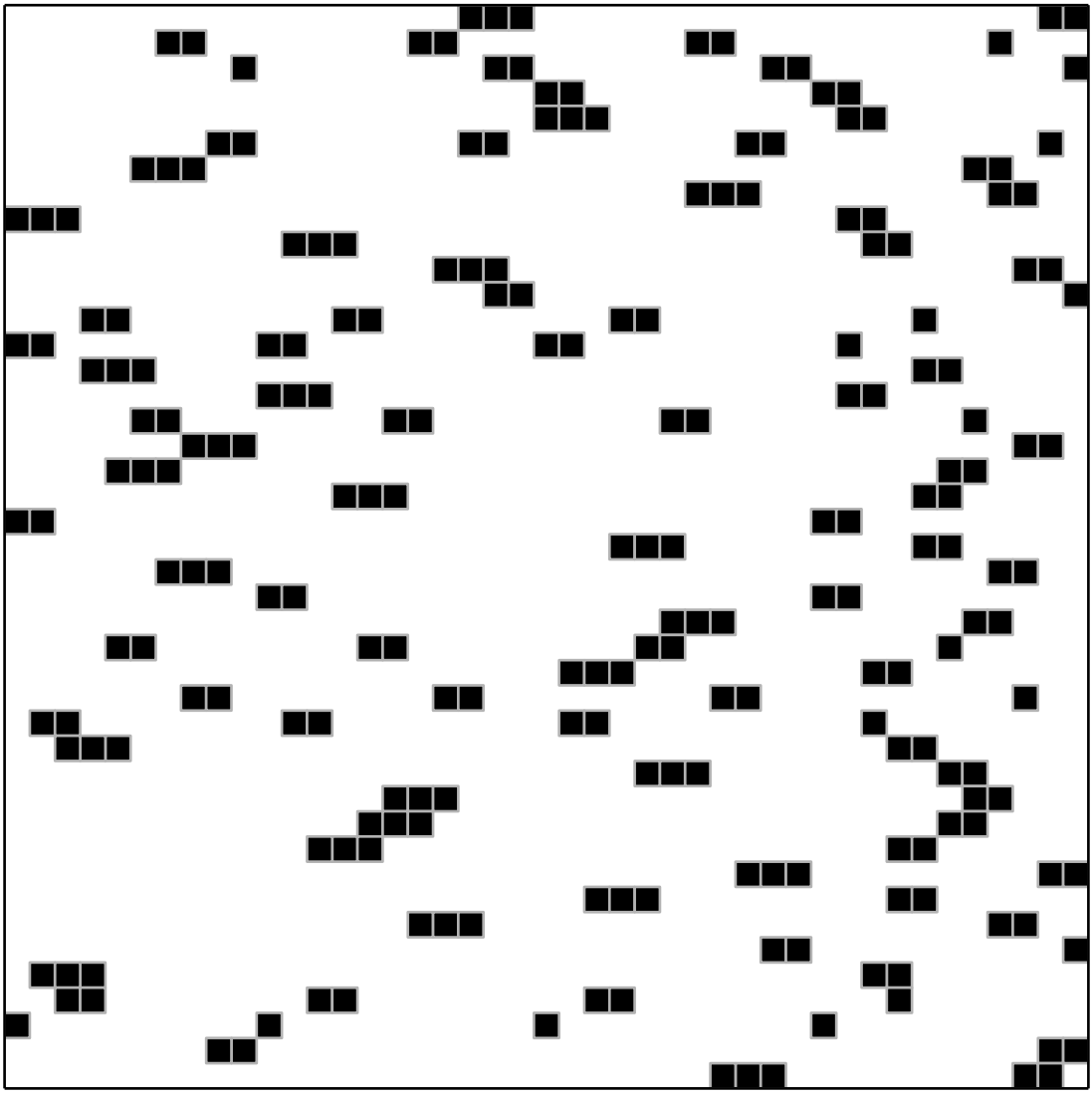

lib2_catena-01, cost: 12, diff: 12, explored: 23181, time: 9.58s

lib2_catena-02 43x43 (225) con: 11, var: 32

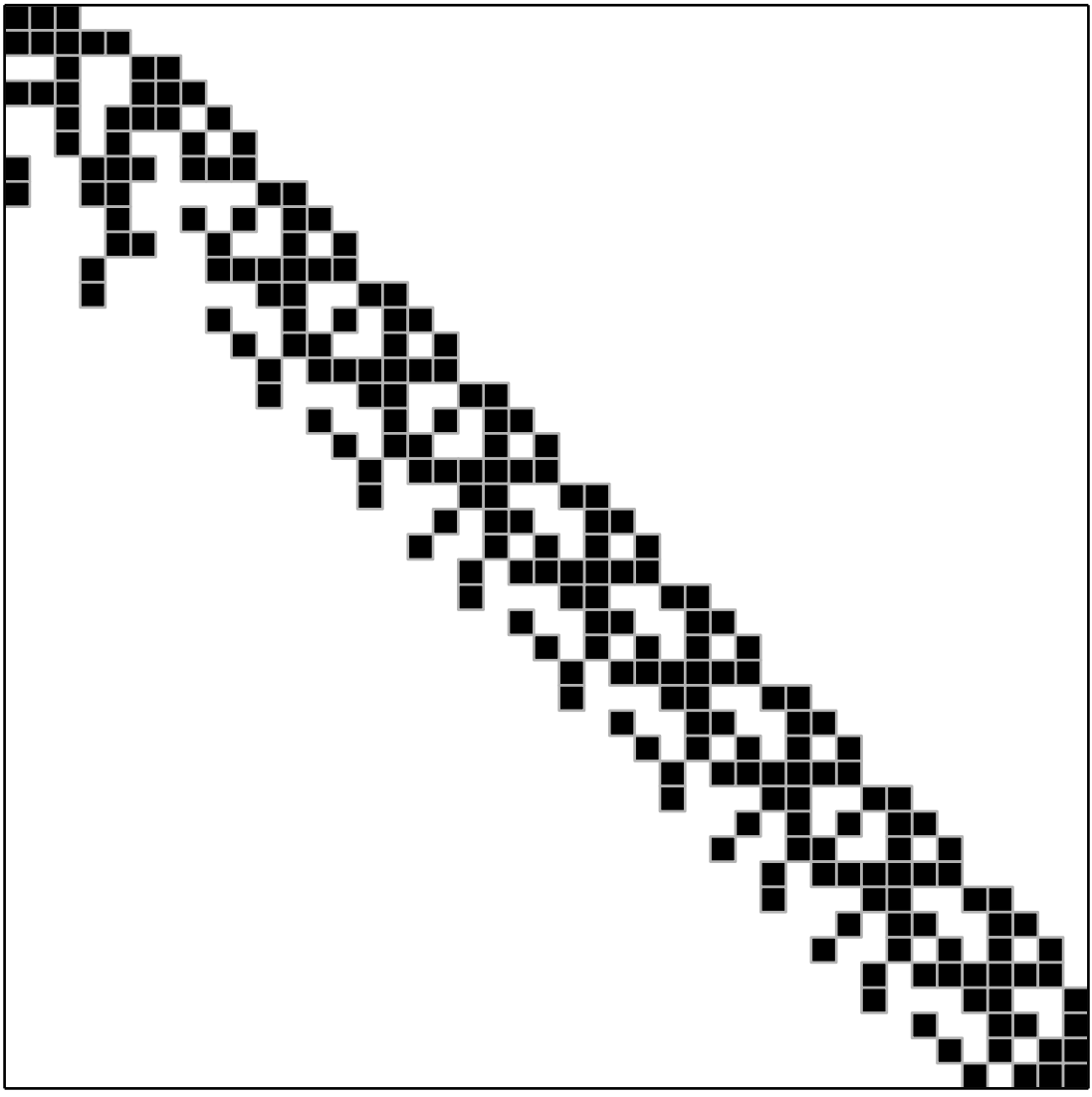



lib2_catena-02, cost: 12, diff: 12, explored: 23093, time: 9.39s

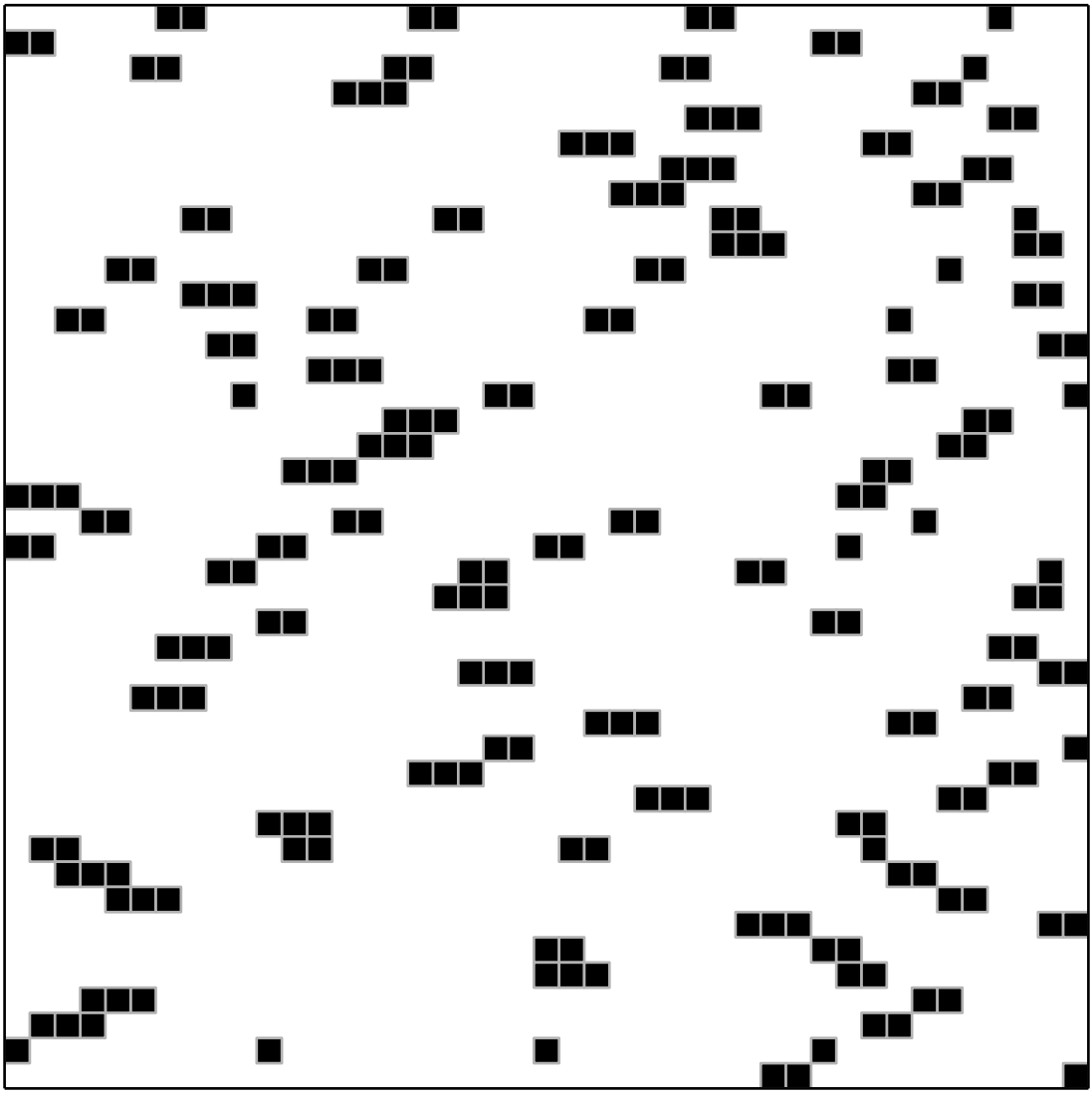
lib2_catena-03 43x43 (225) con: 11, var: 32



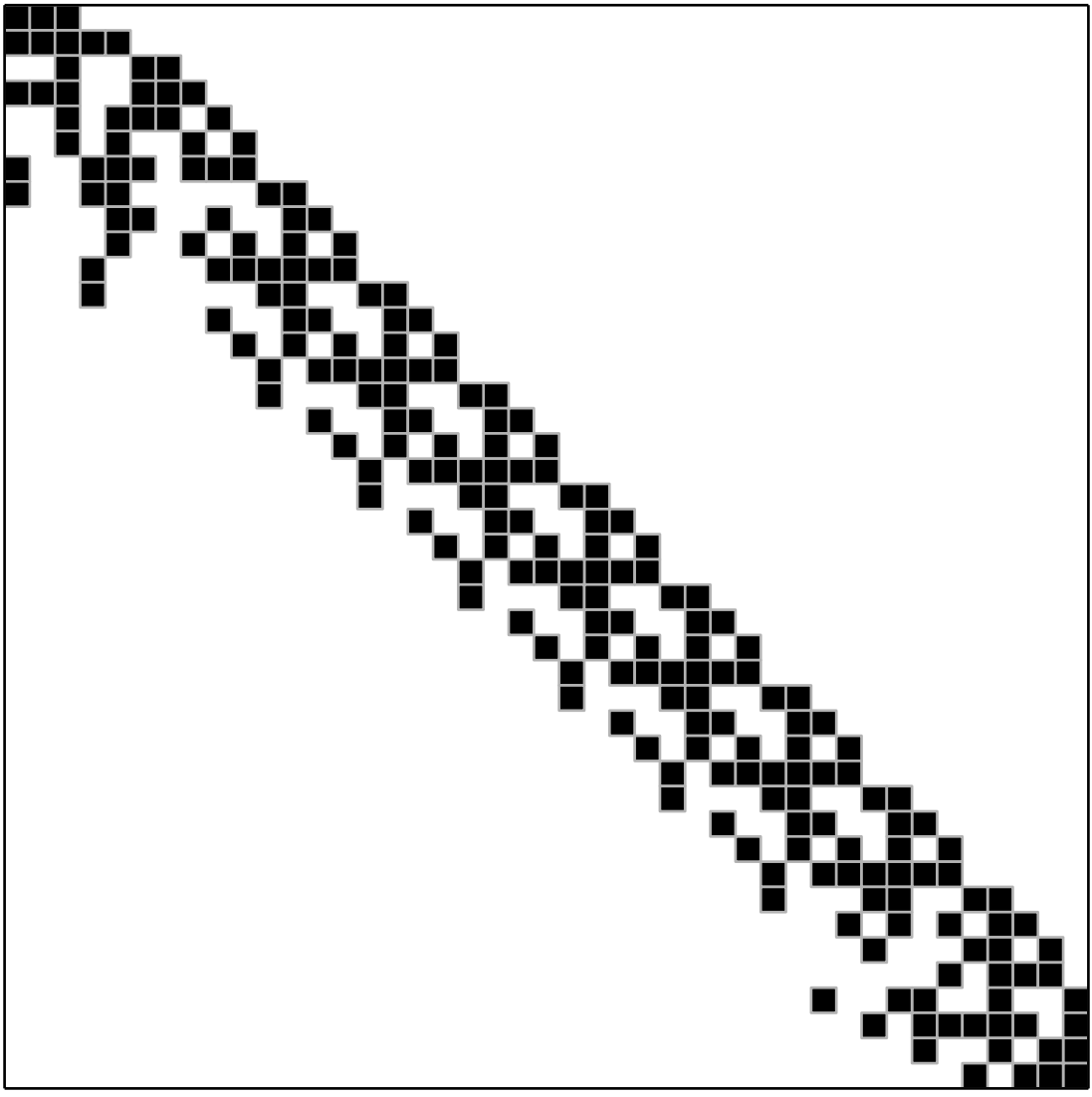
lib2_catena-03, cost: 12, diff: 12, explored: 22514, time: 9.08s



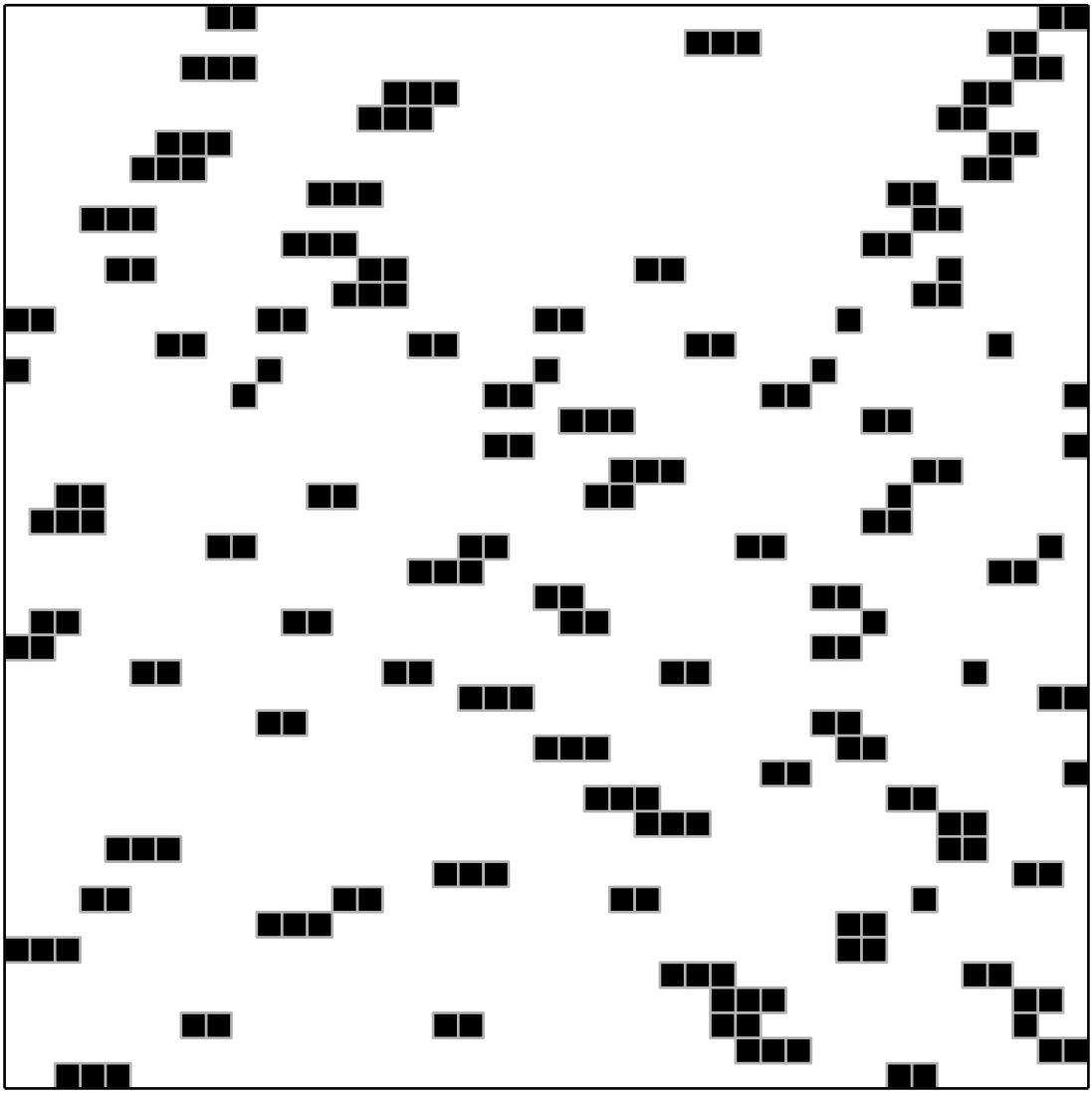
lib2_catena-04 43x43 (225) con: 11, var: 32

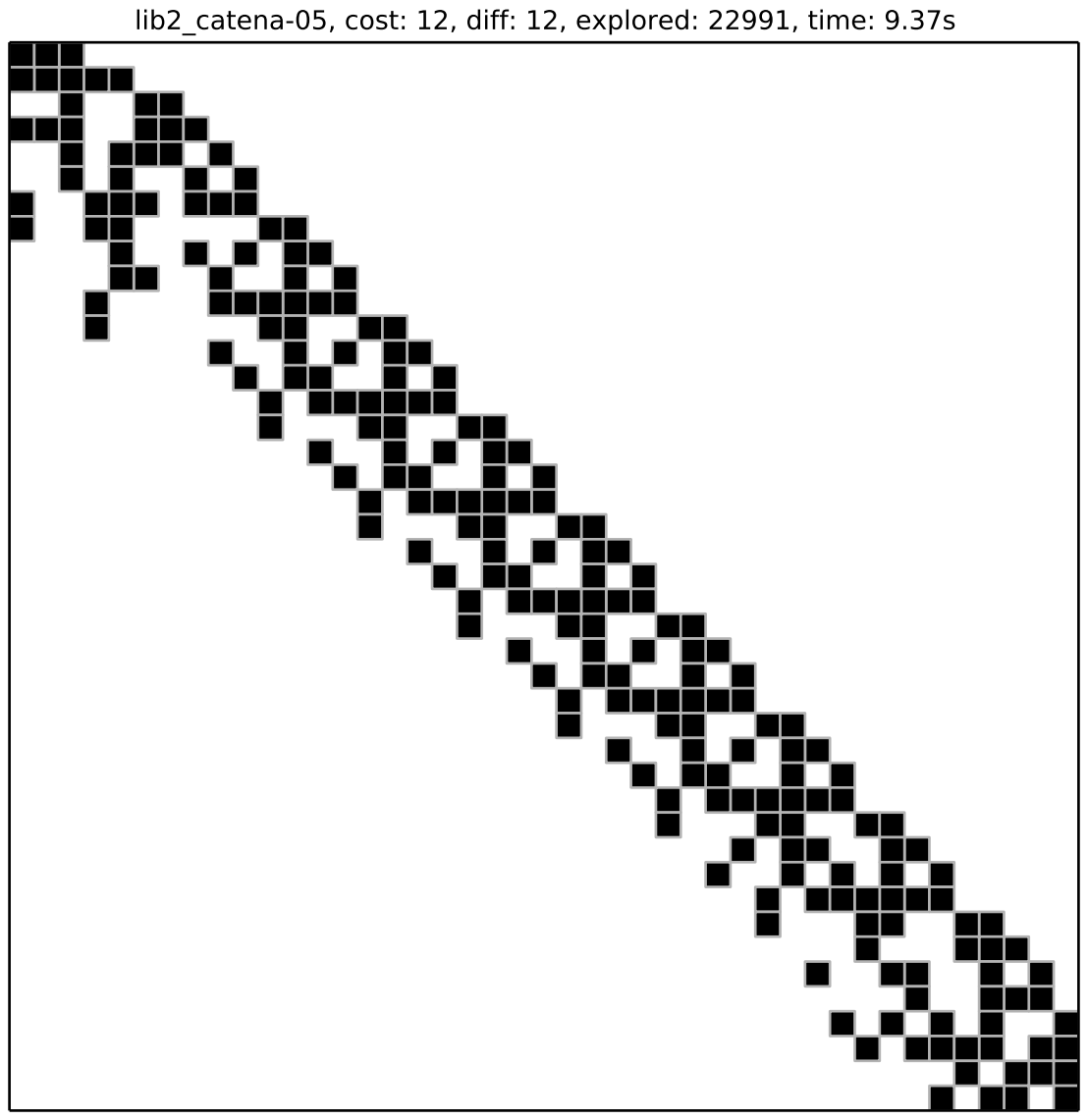


lib2_catena-04, cost: 12, diff: 12, explored: 23211, time: 9.50s

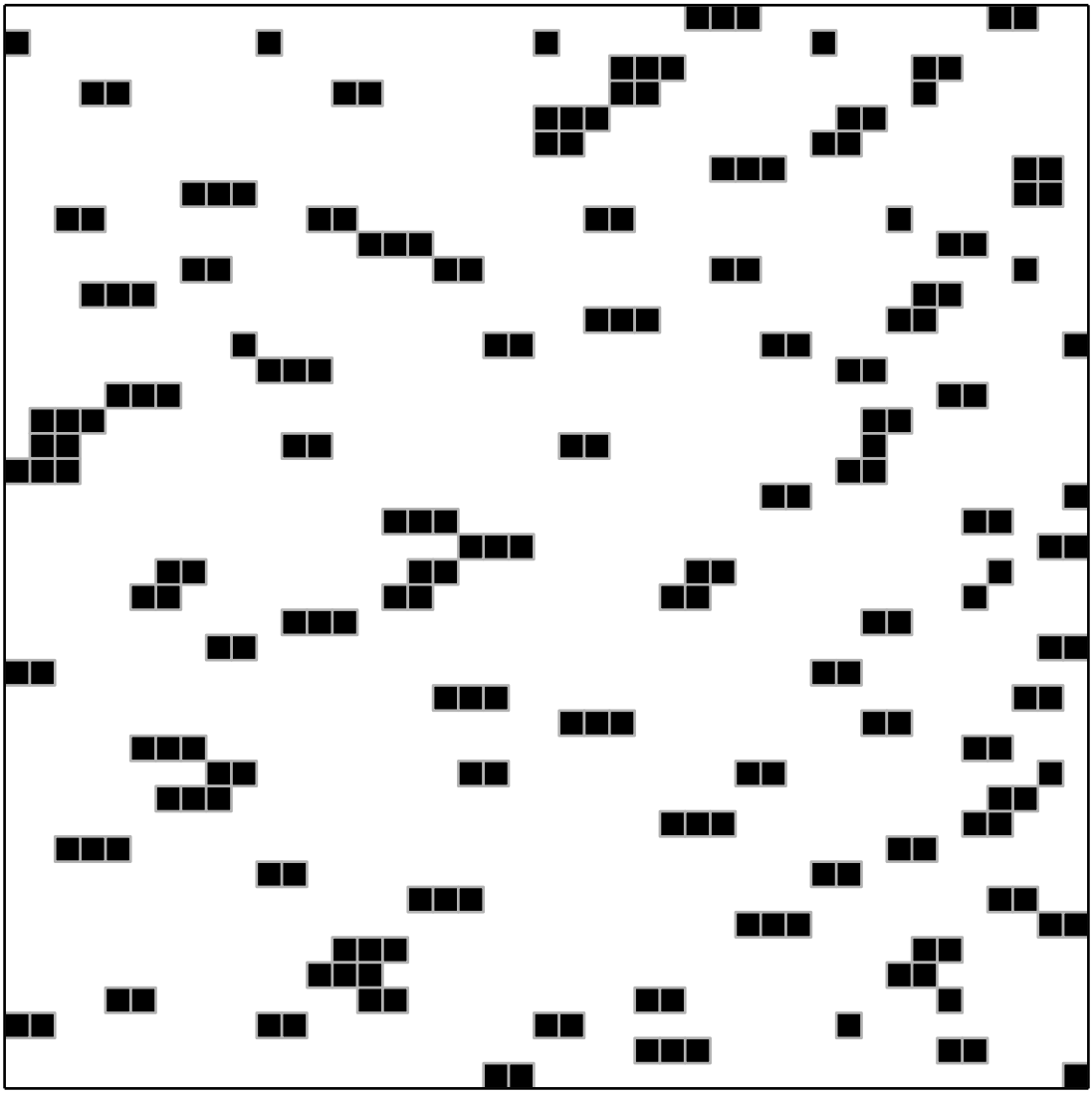


lib2_catena-05 43x43 (225) con: 11, var: 32




lib2_catena-05, cost: 12, diff: 12, explored: 22991, time: 9.37s

lib2_catena-06 43x43 (225) con: 11, var: 32



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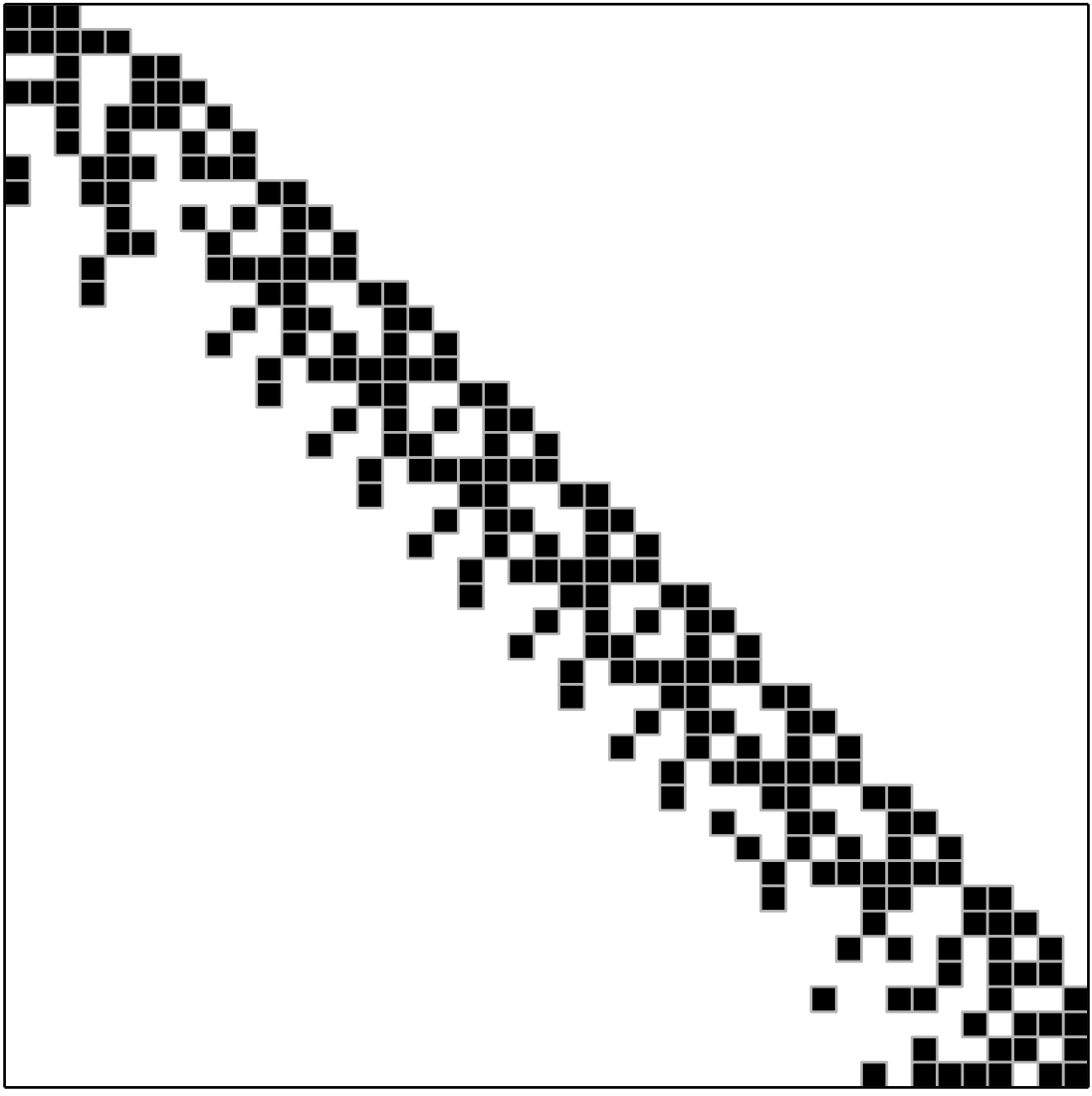
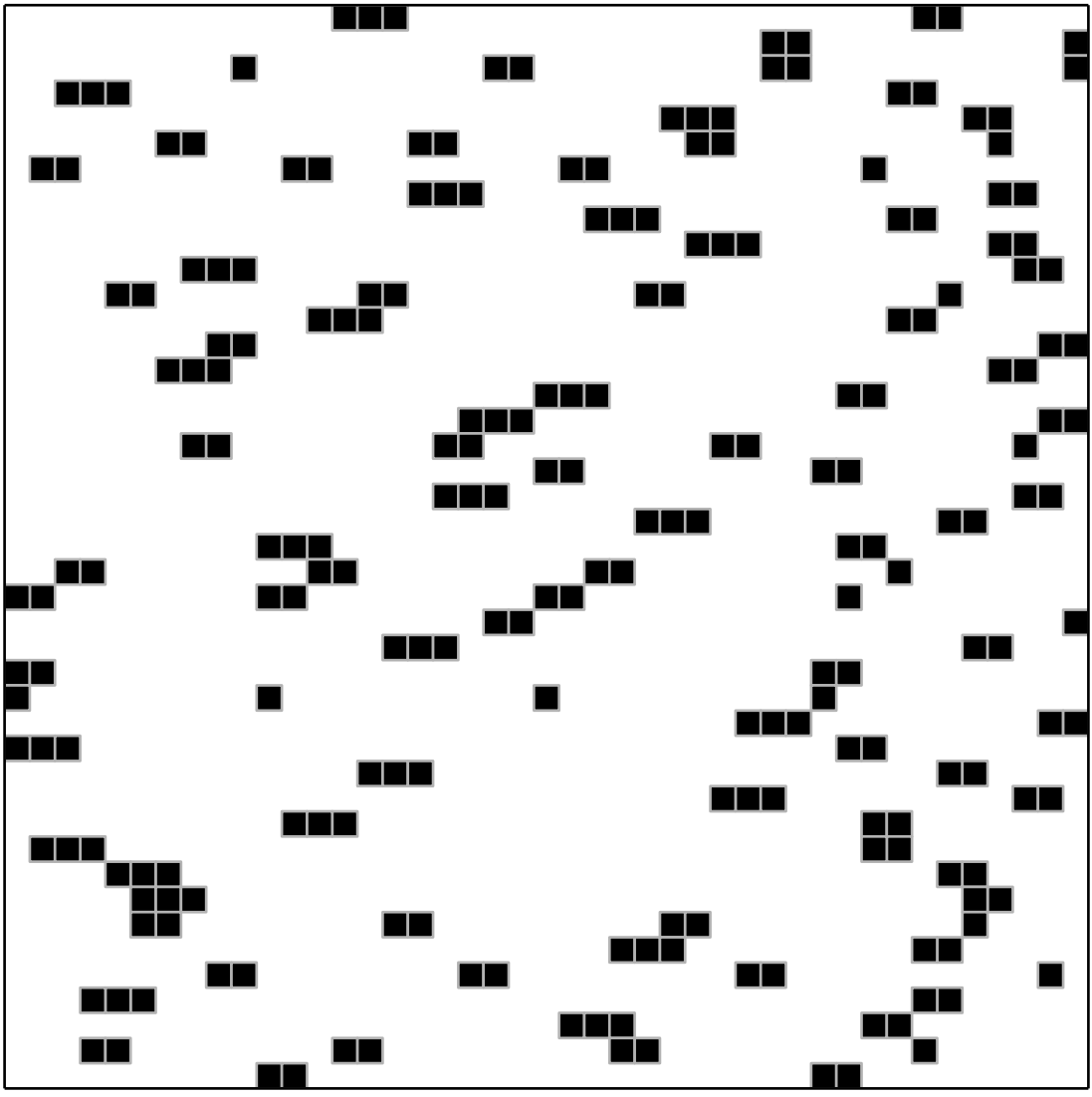
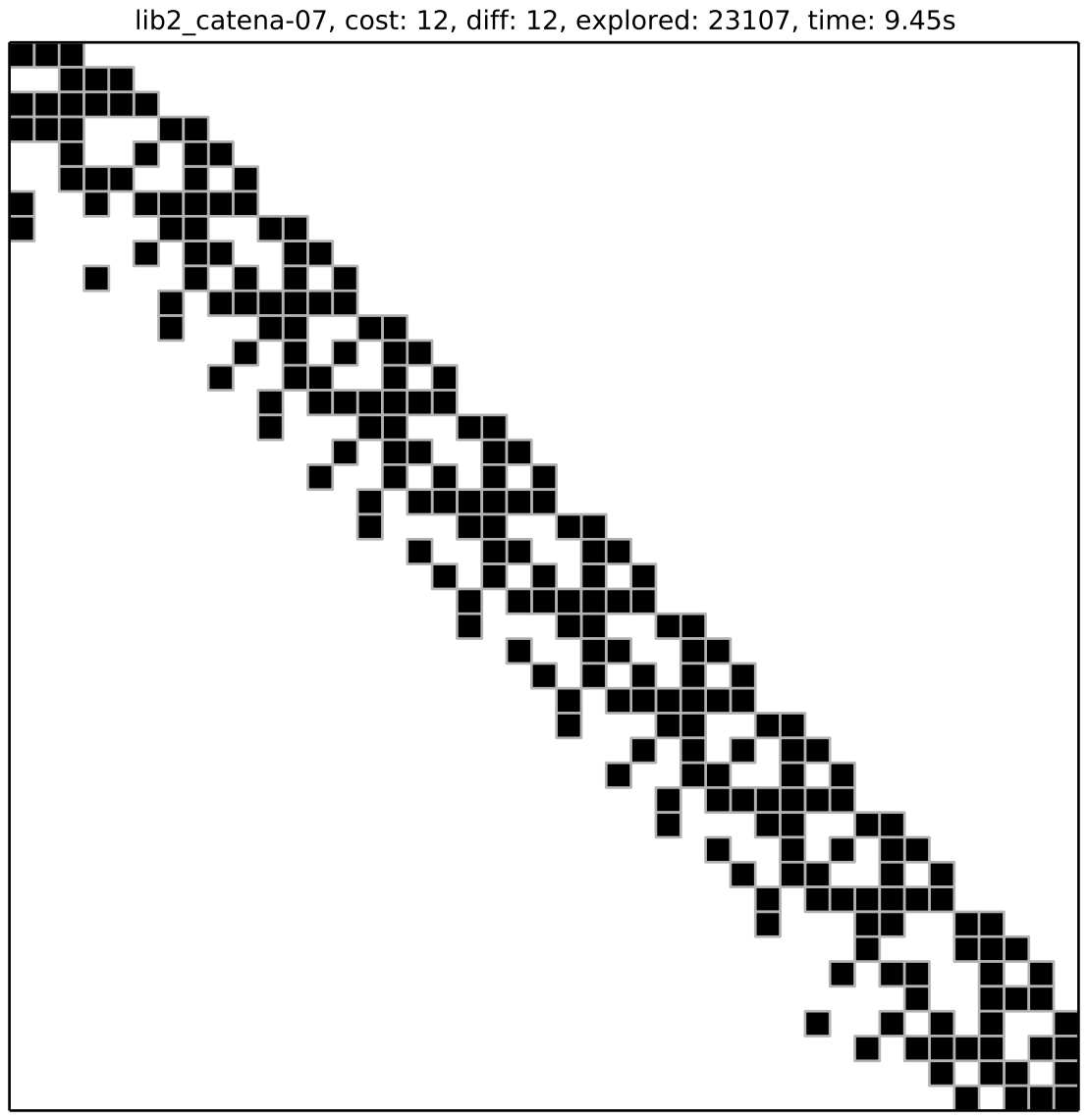


lib2_catena-07 43x43 (225) con: 11, var: 32

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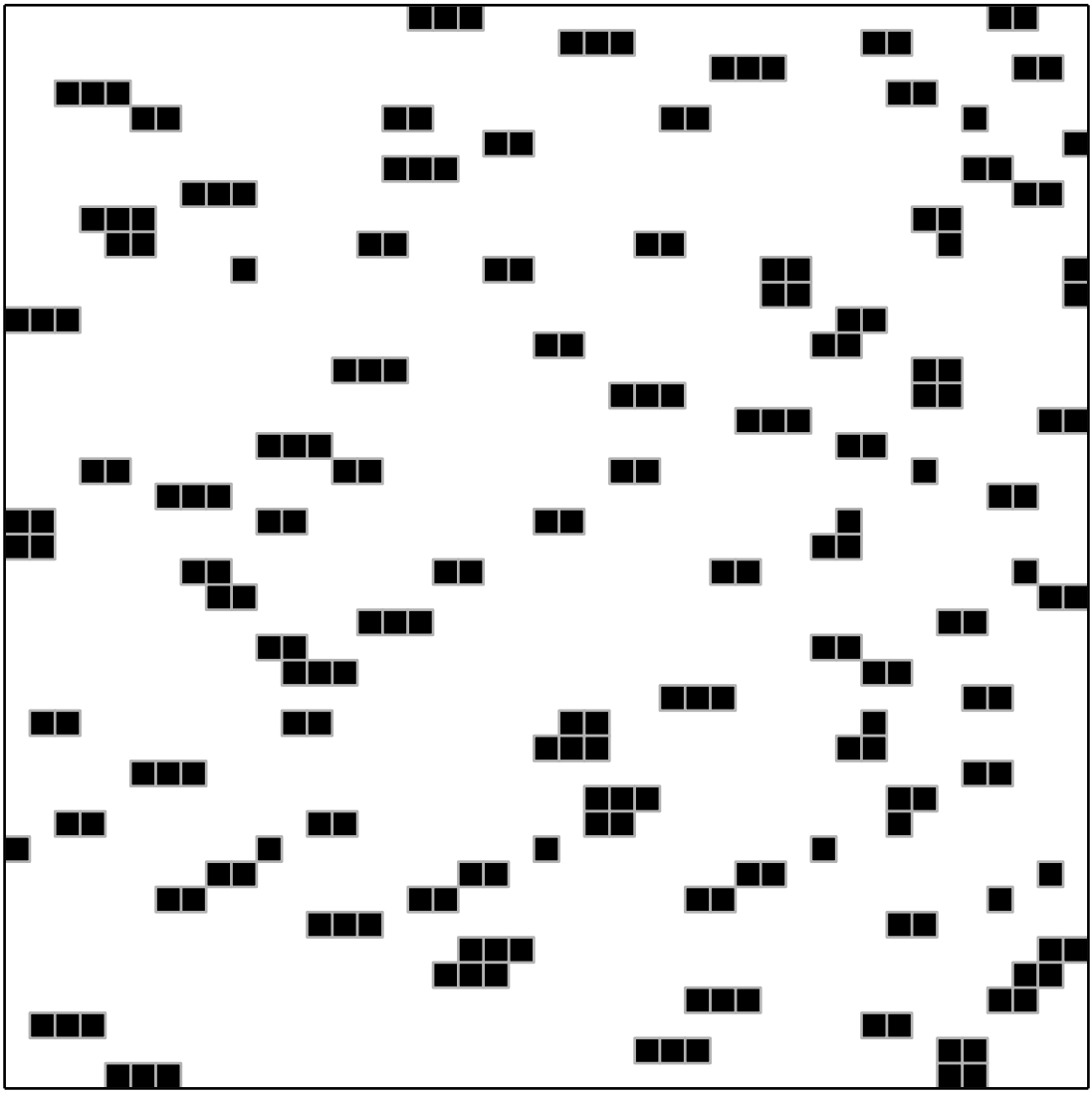
lib2_catena-08 43x43 (225) con: 11, var: 32



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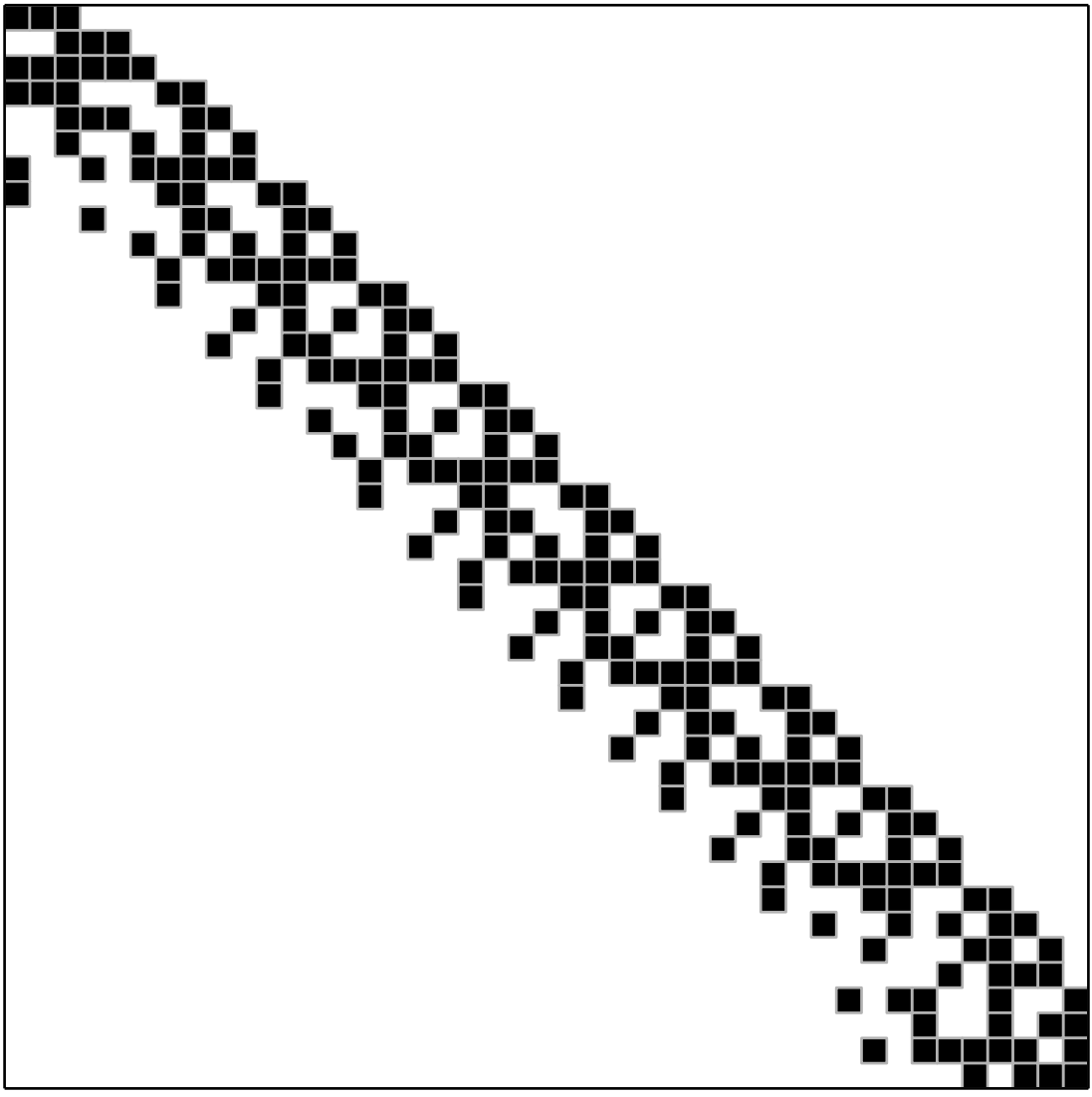
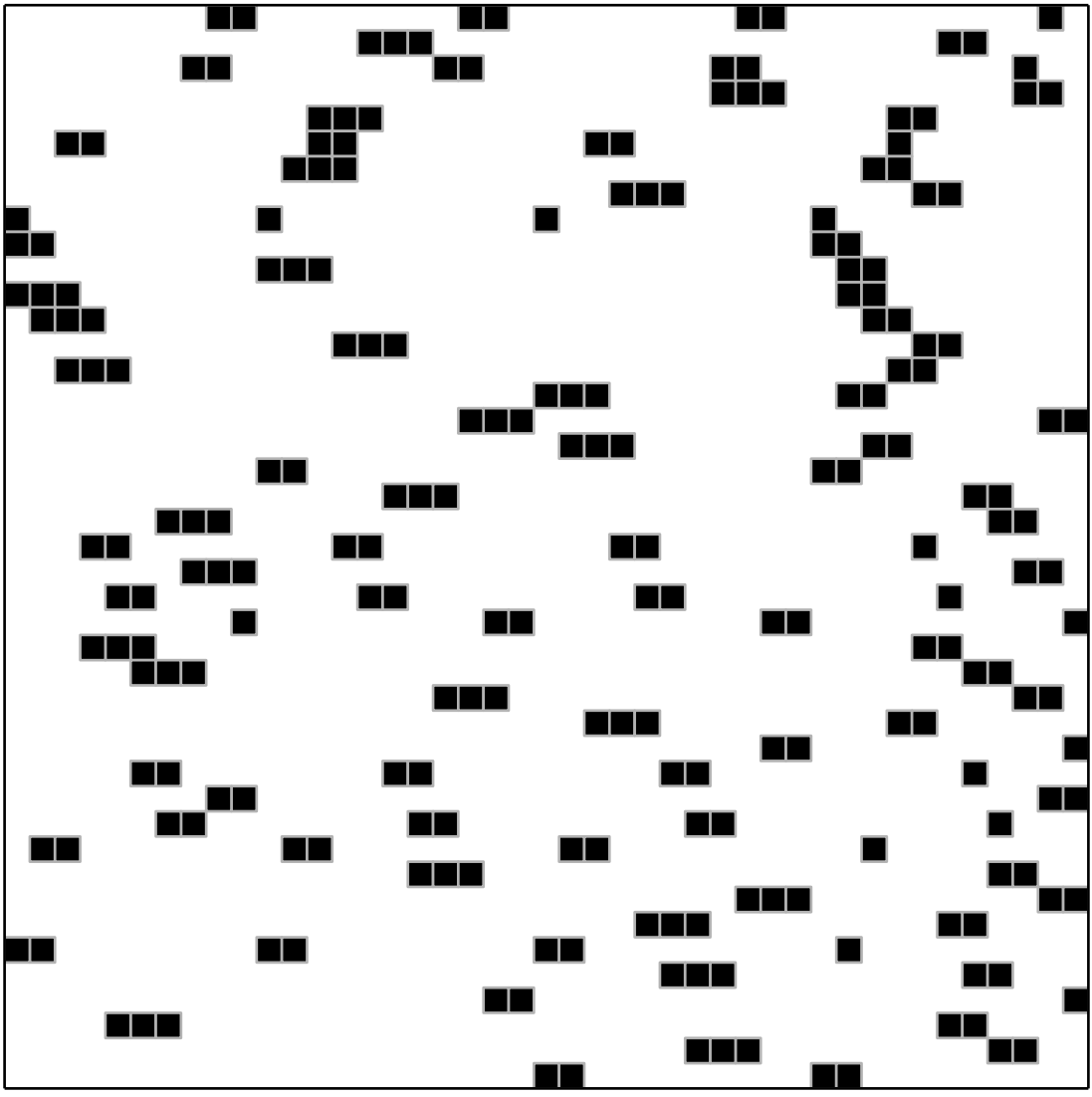


lib2_catena-09 43x43 (225) con: 11, var: 32



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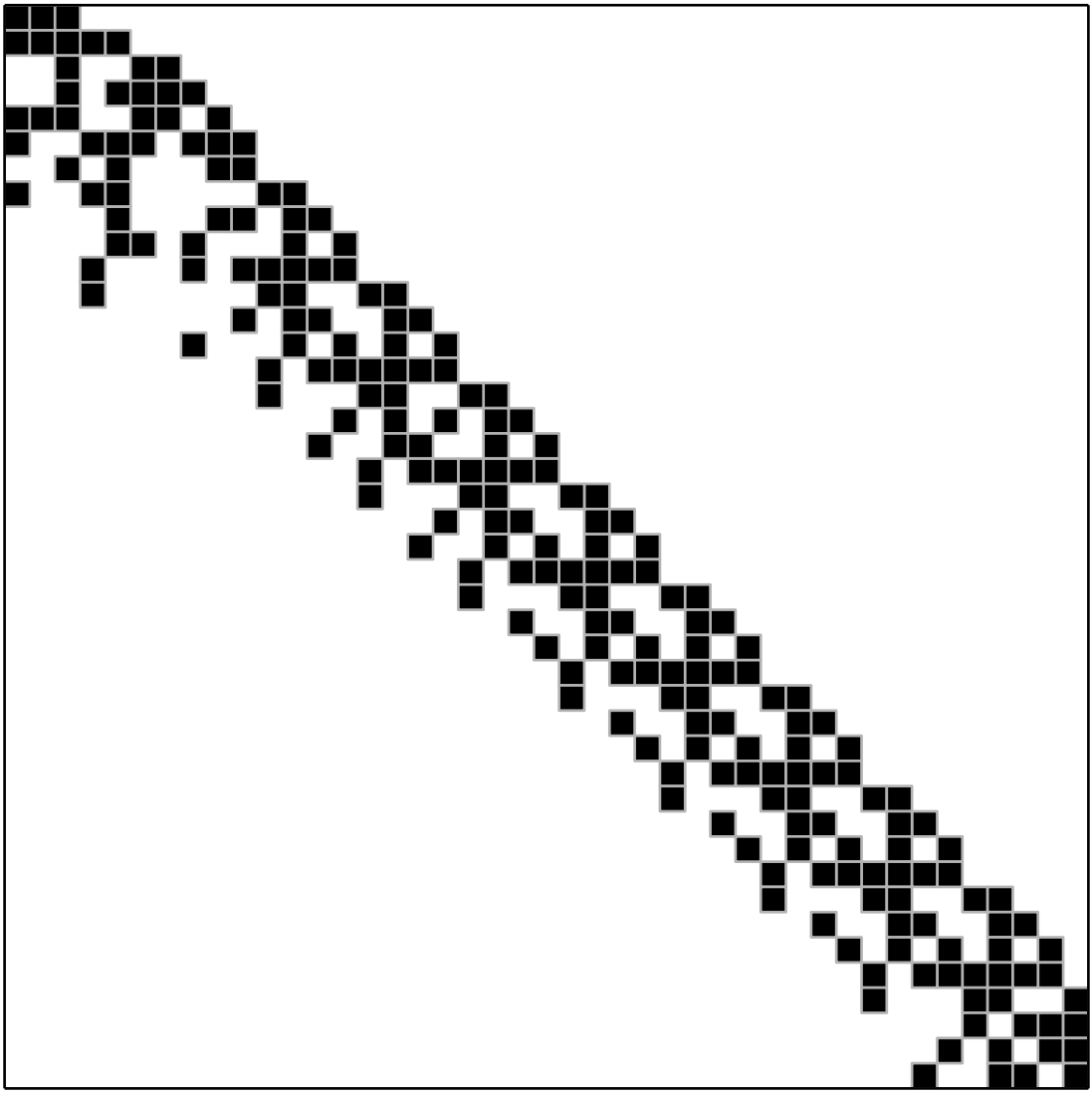
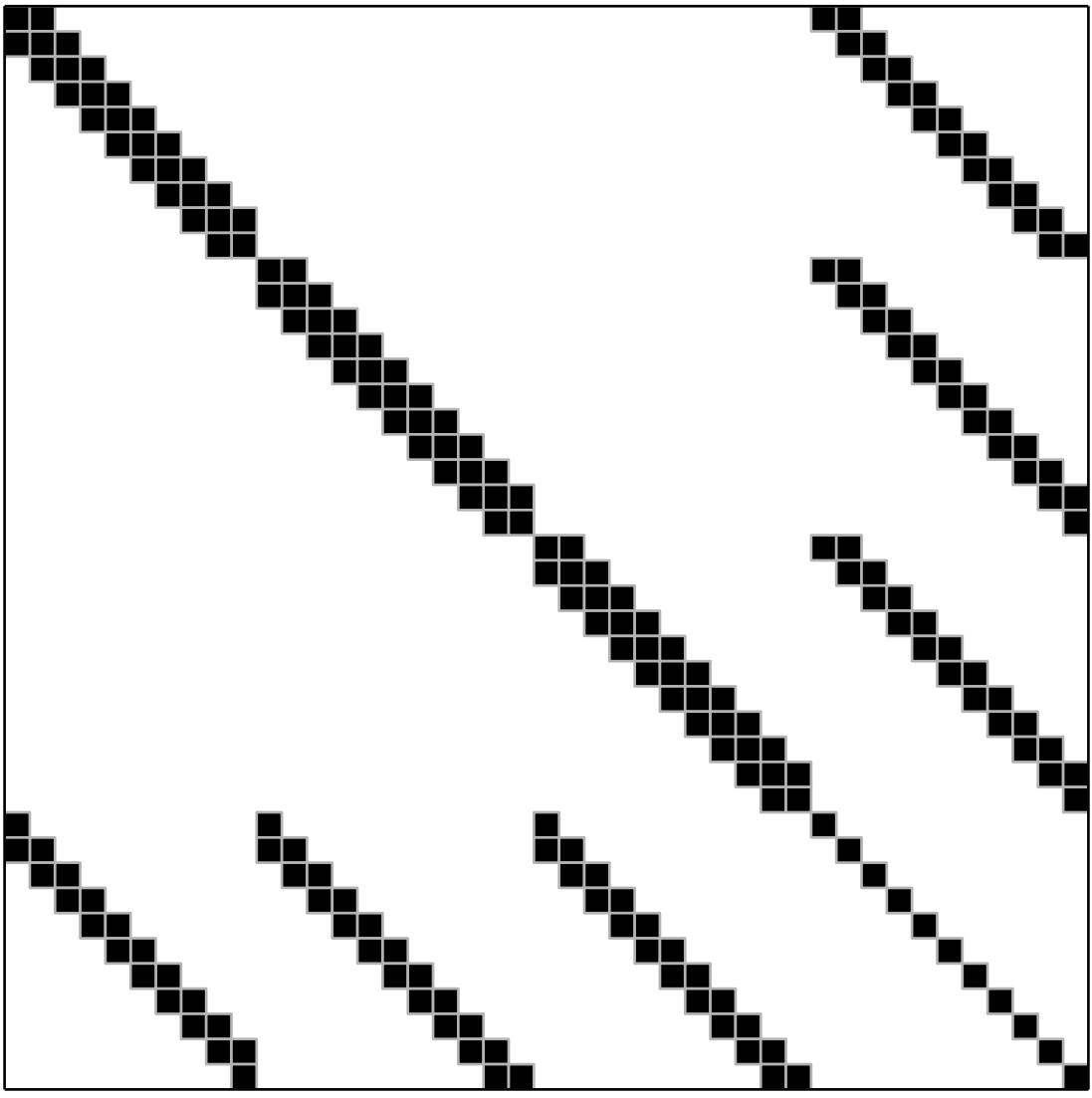
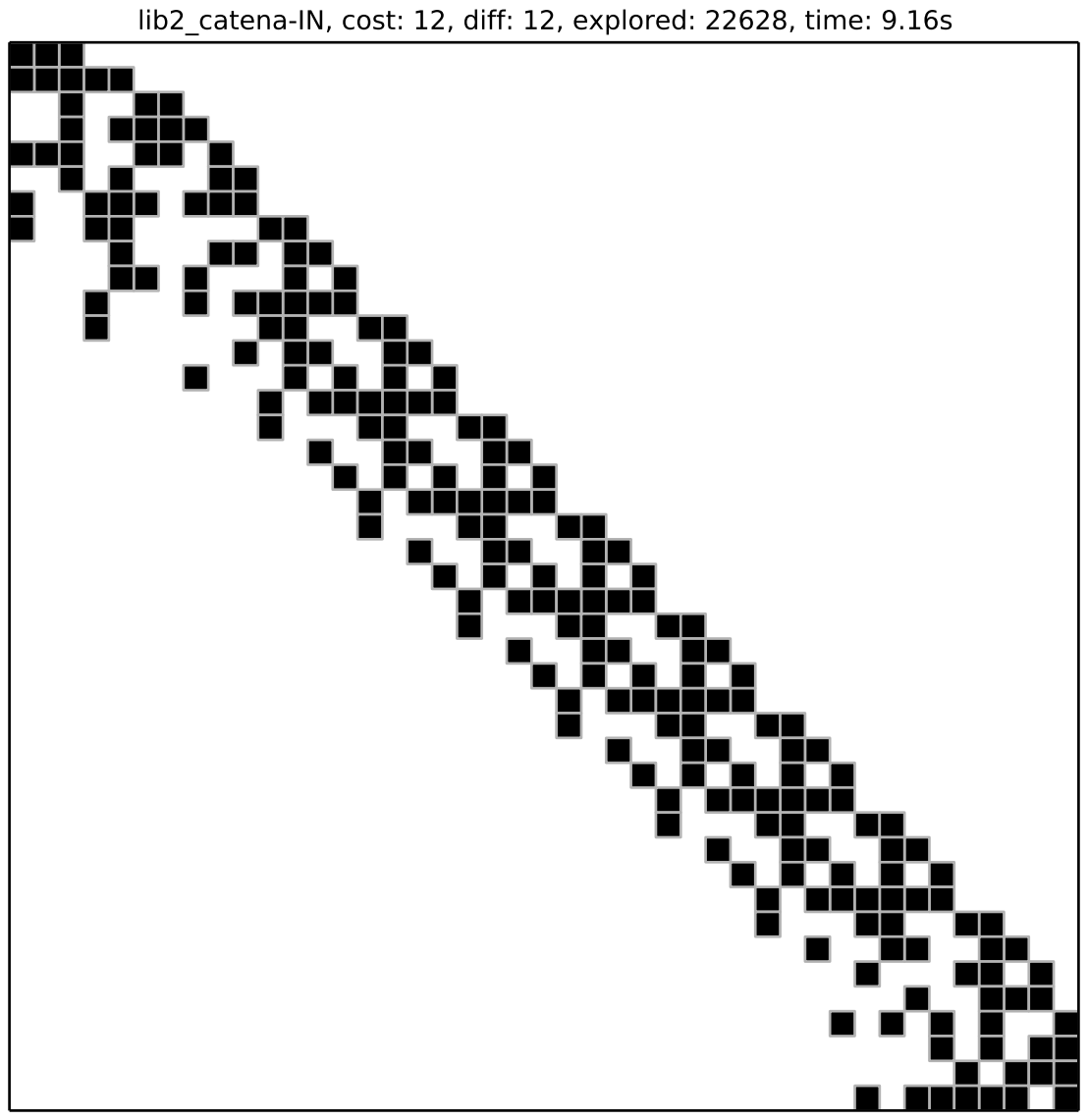
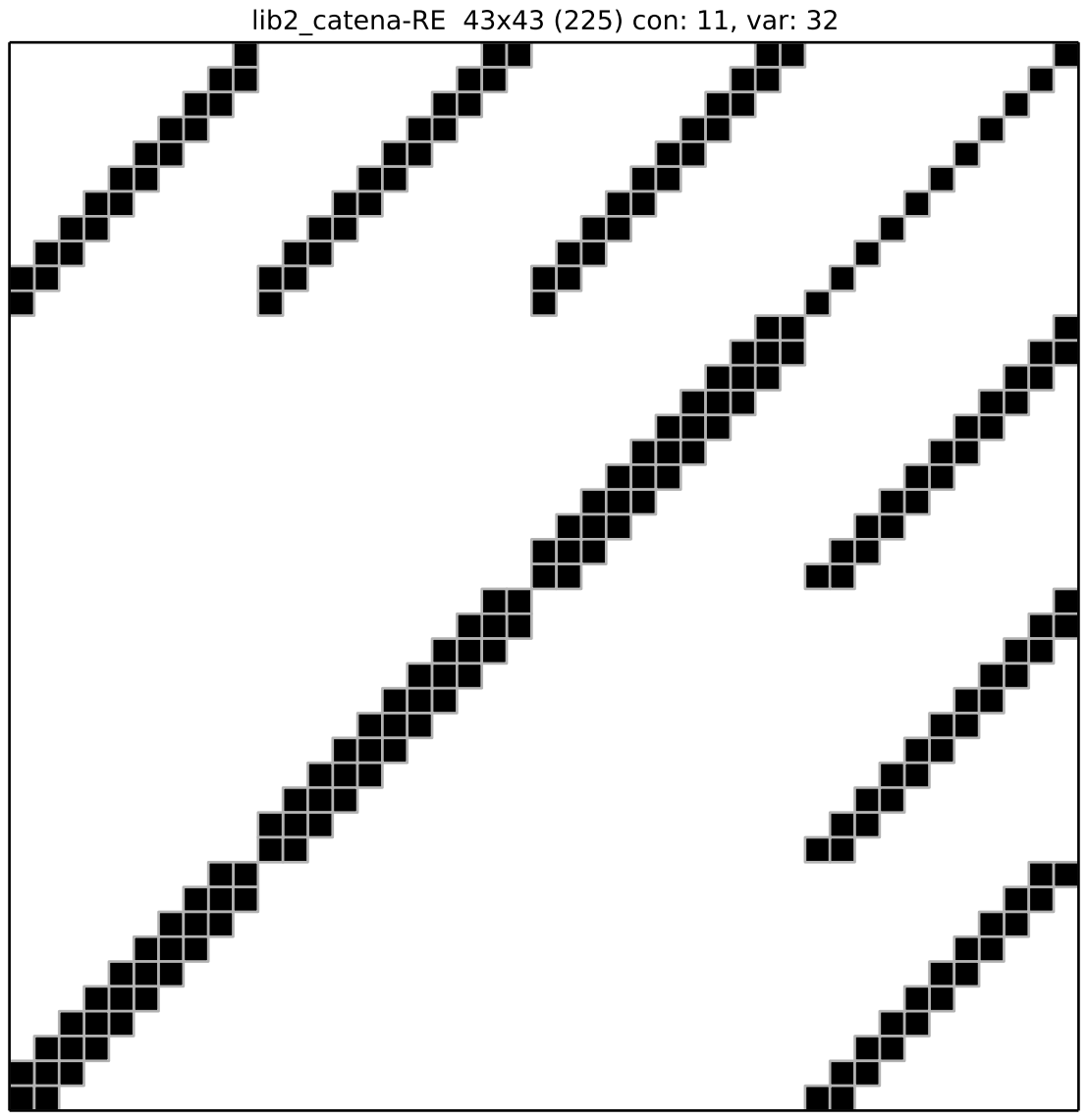
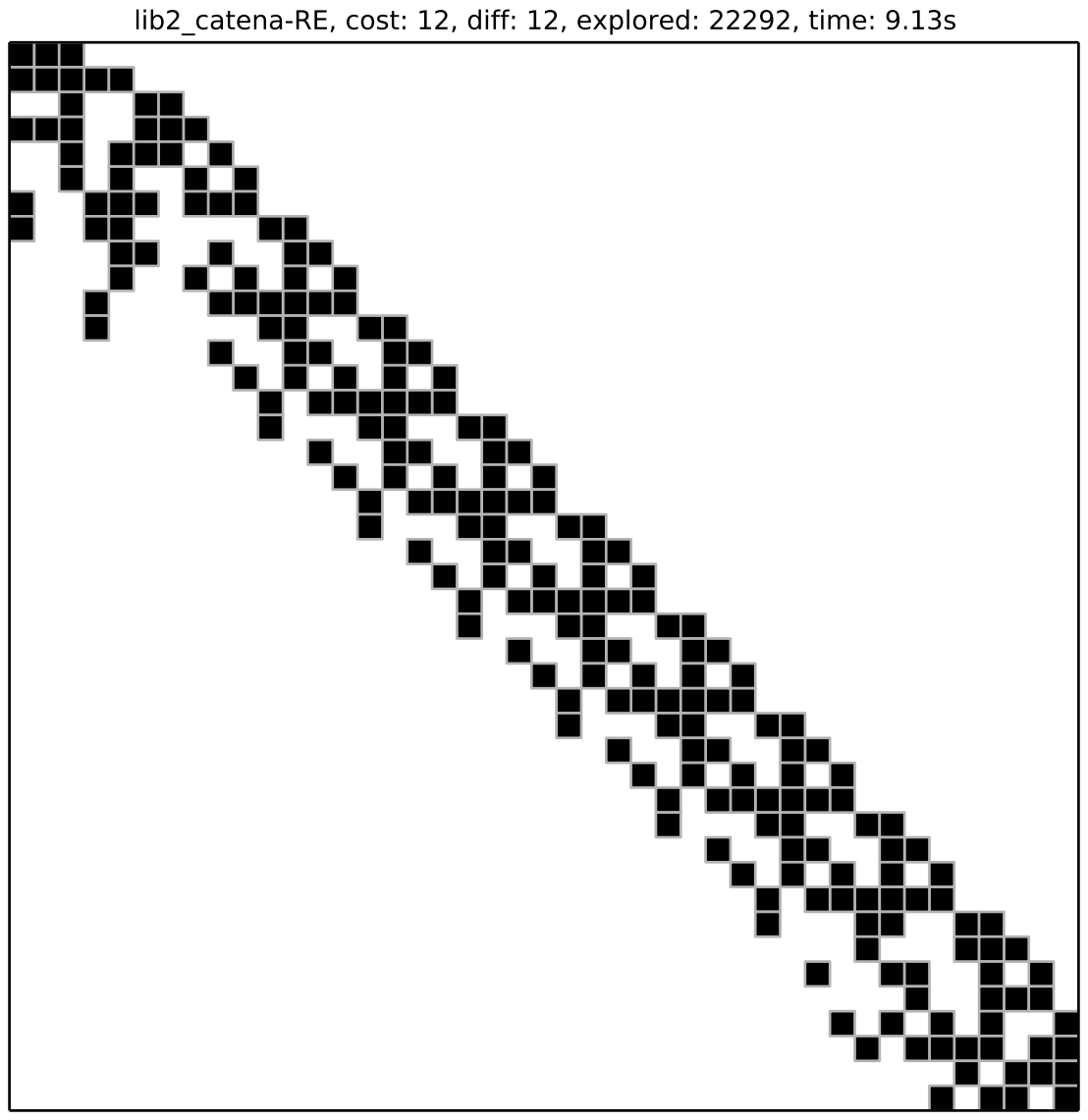
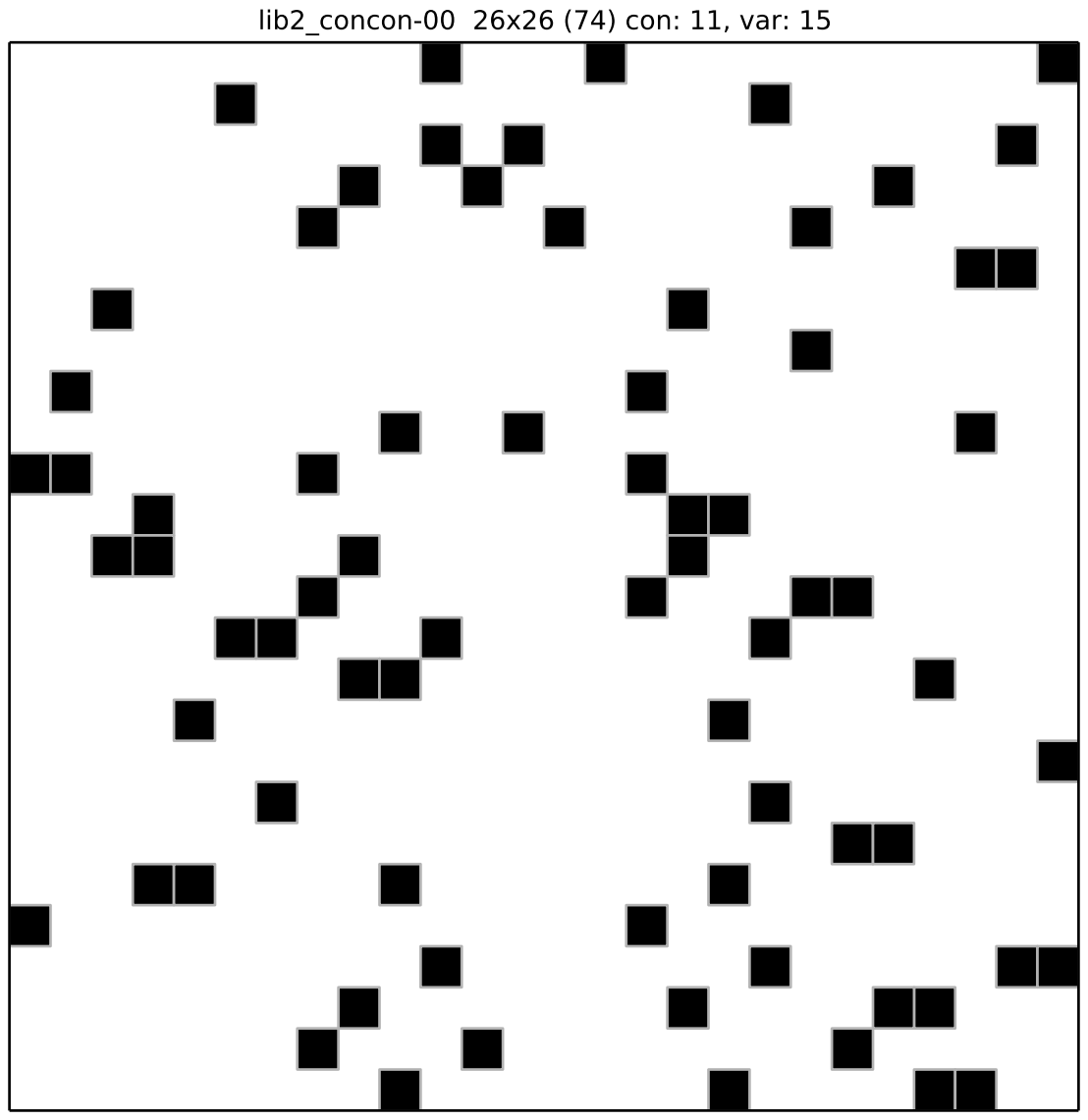


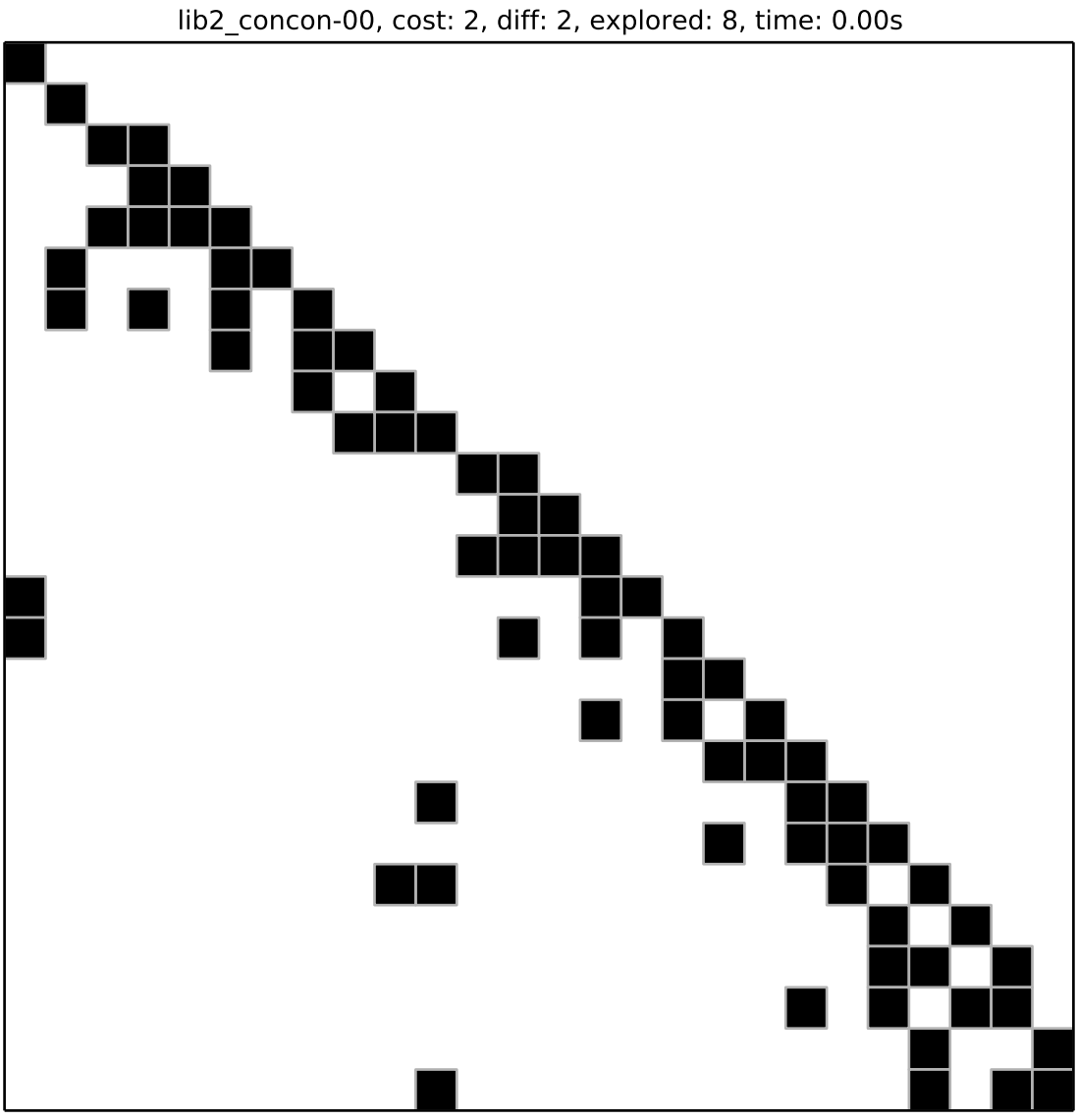

lib2_catena-IN 43x43 (225) con: 11, var: 32


lib2_catena-IN, cost: 12, diff: 12, explored: 22628, time: 9.16s

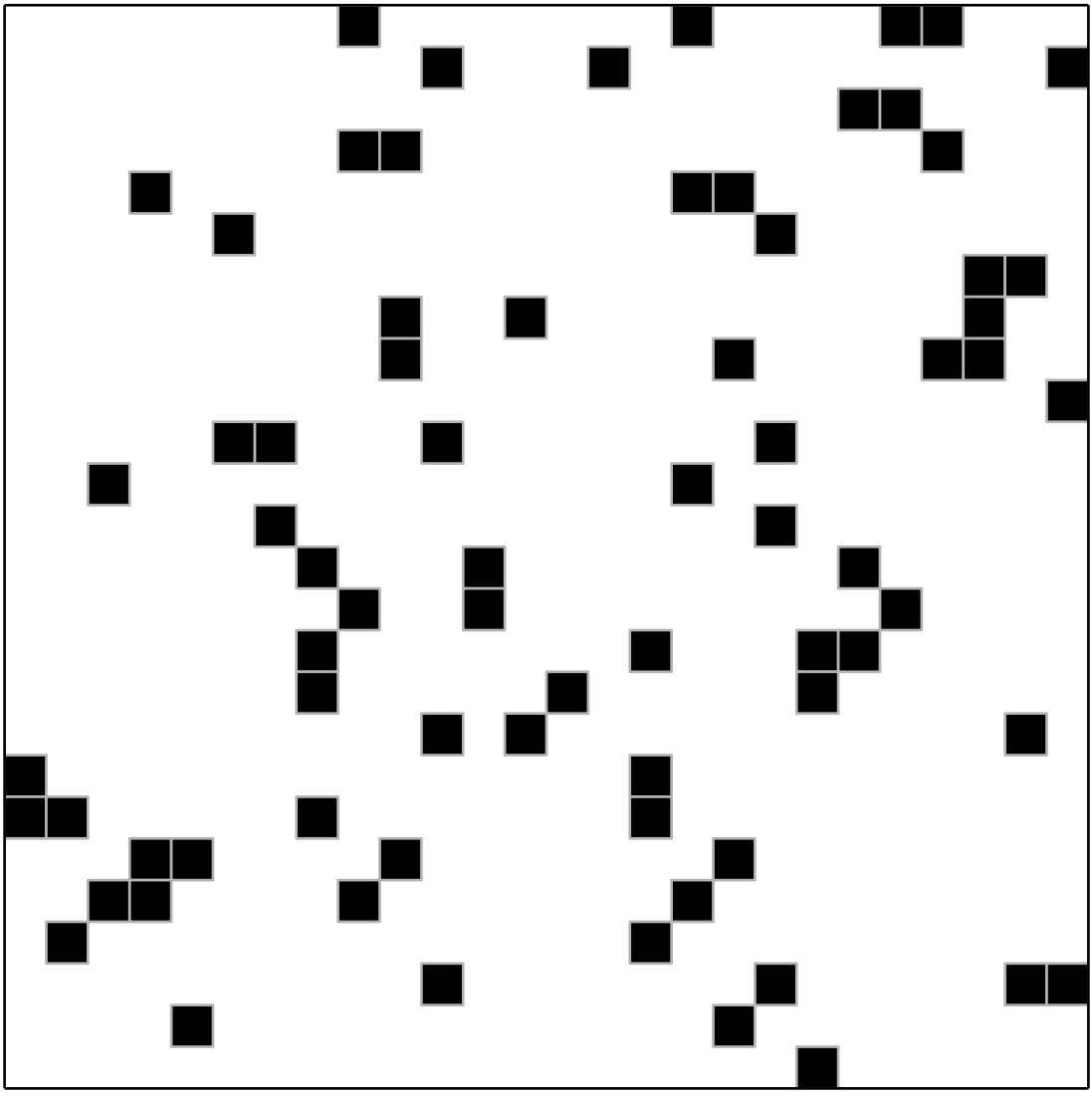

lib2_catena-RE 43x43 (225) con: 11, var: 32

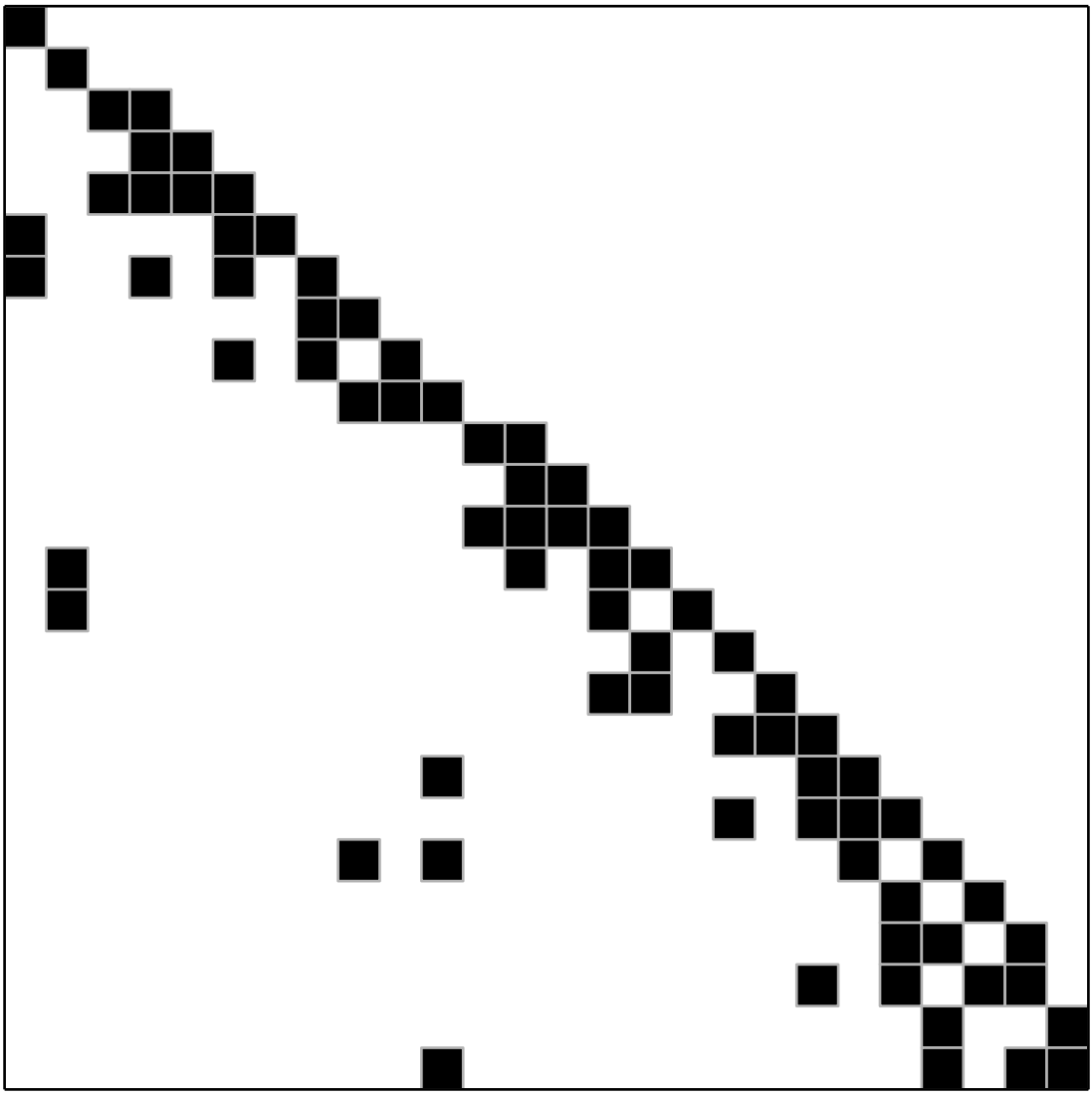

lib2_catena-RE, cost: 12, diff: 12, explored: 22292, time: 9.13s


lib2_concon-00 26x26 (74) con: 11, var: 15

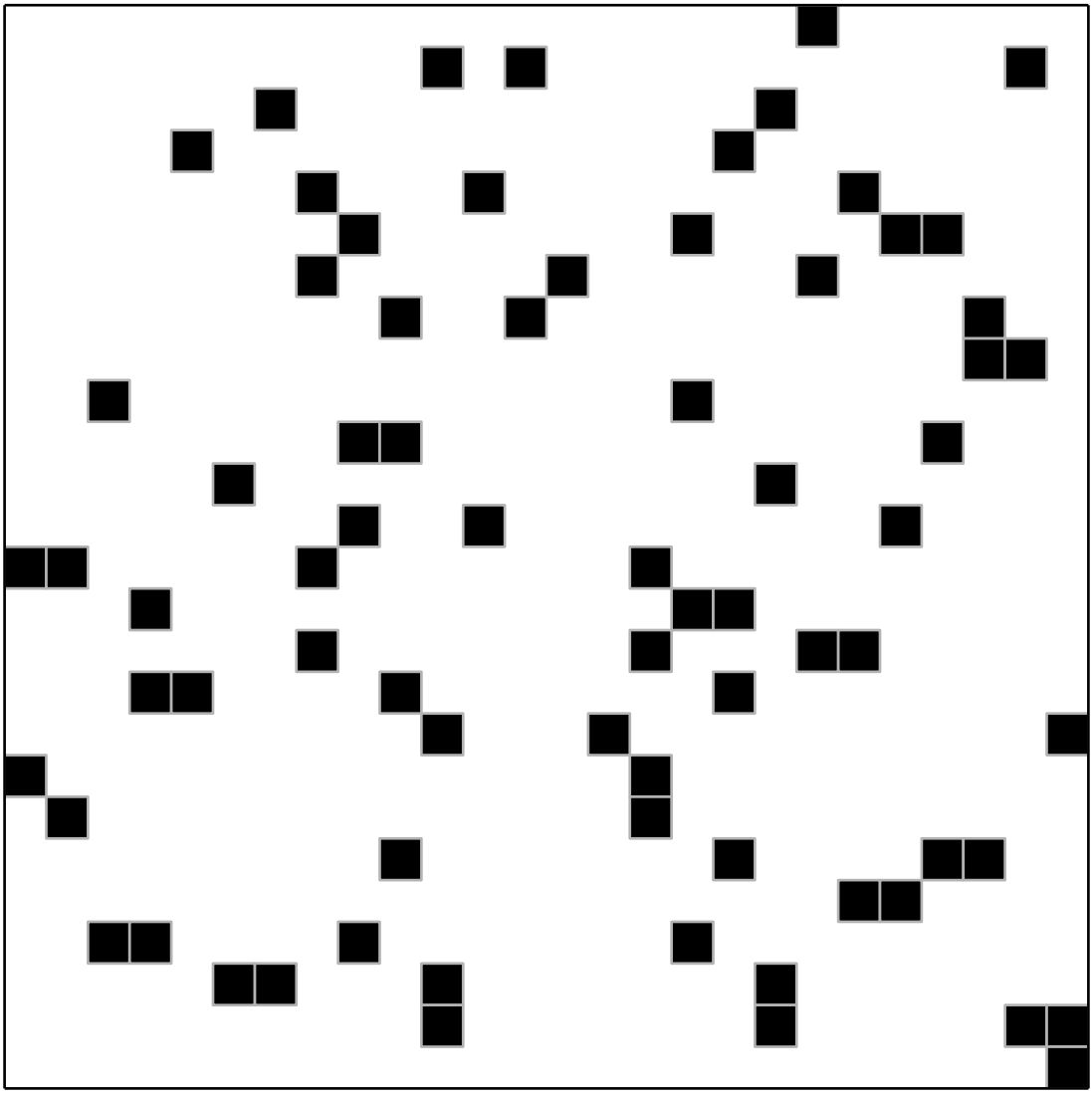

lib2_concon-00, cost: 2, diff: 2, explored: 8, time: 0.00s

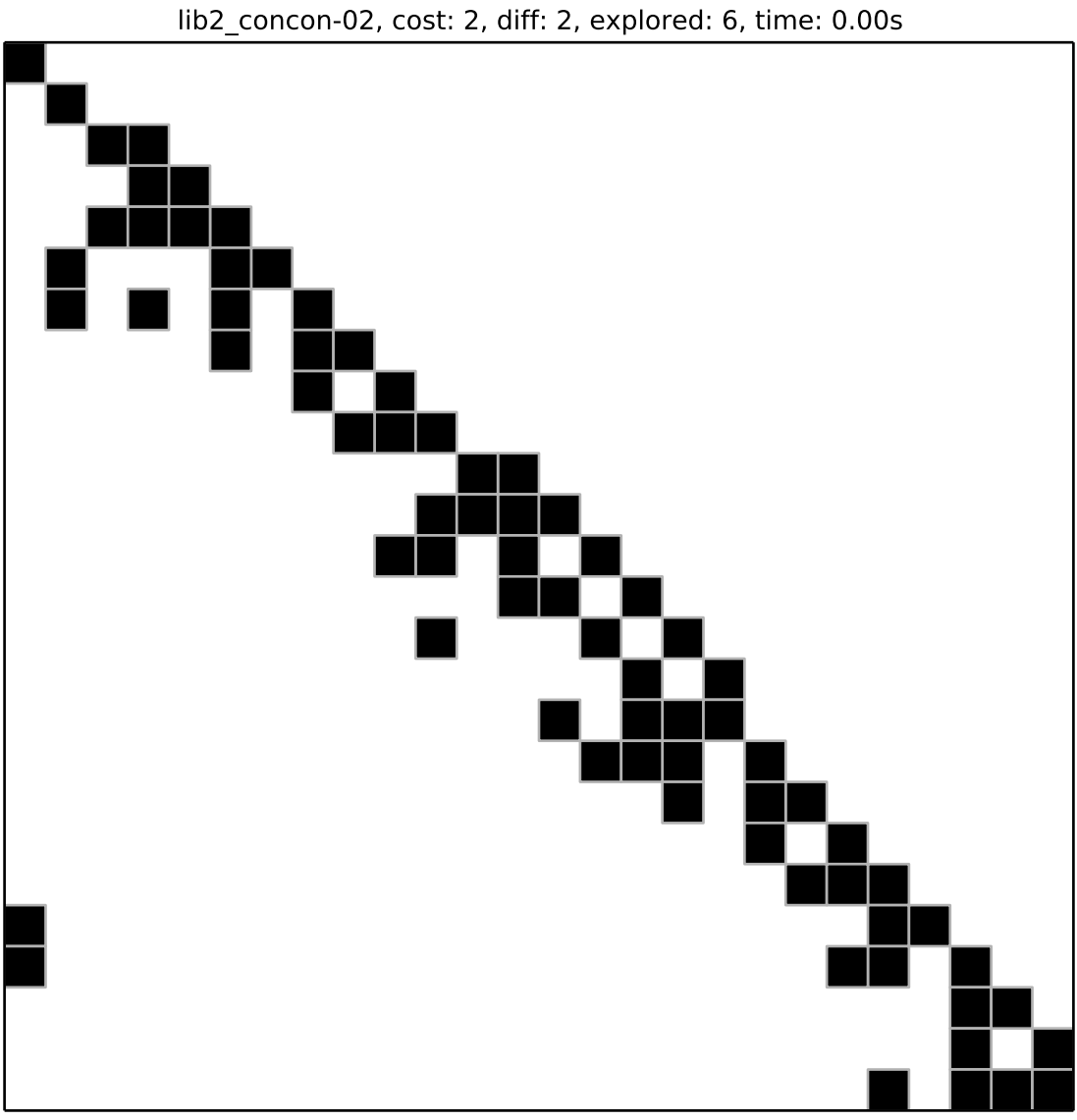
lib2_concon-01 26x26 (74) con: 11, var: 15



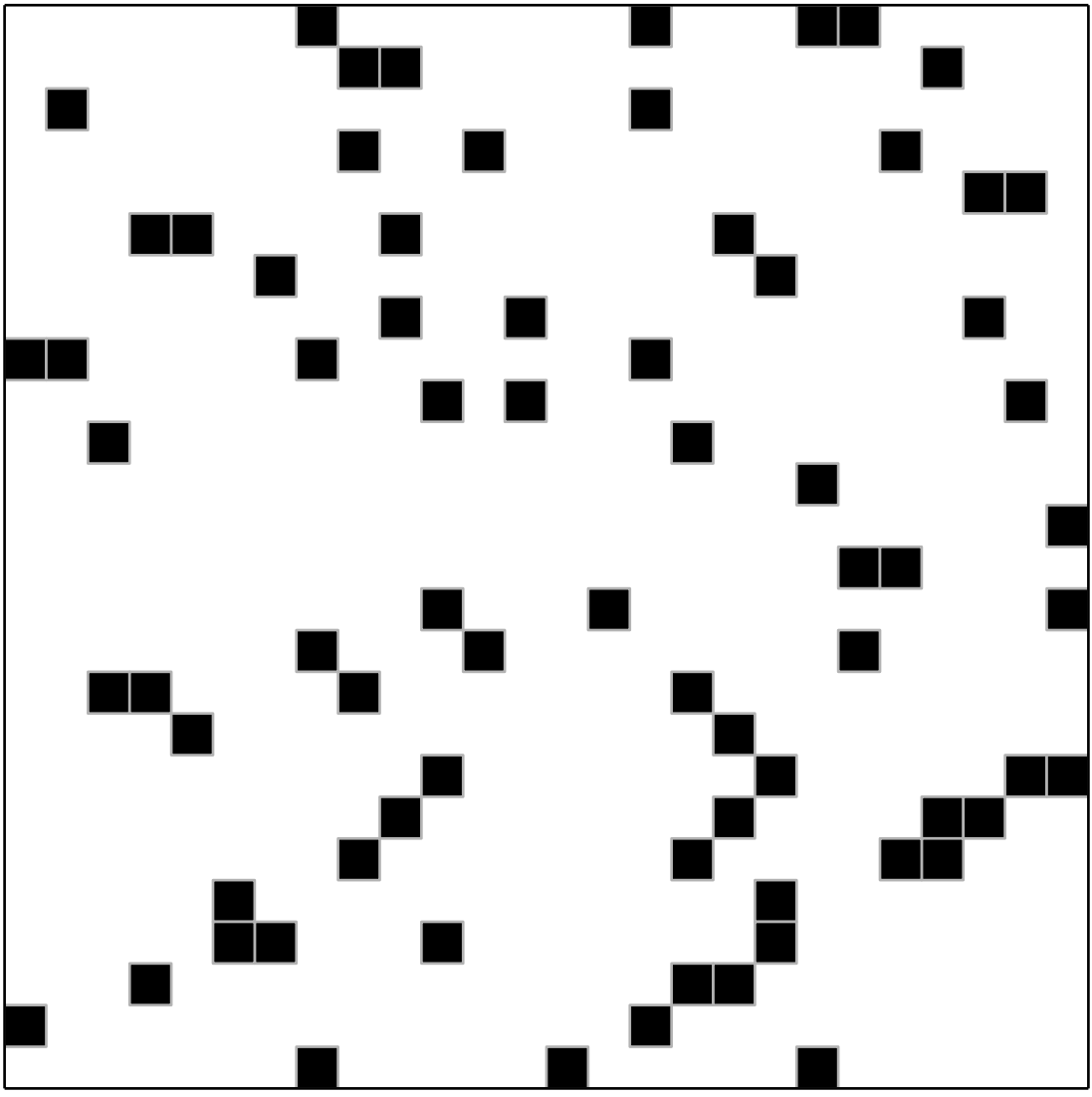

lib2_concon-01, cost: 2, diff: 2, explored: 20, time: 0.01s

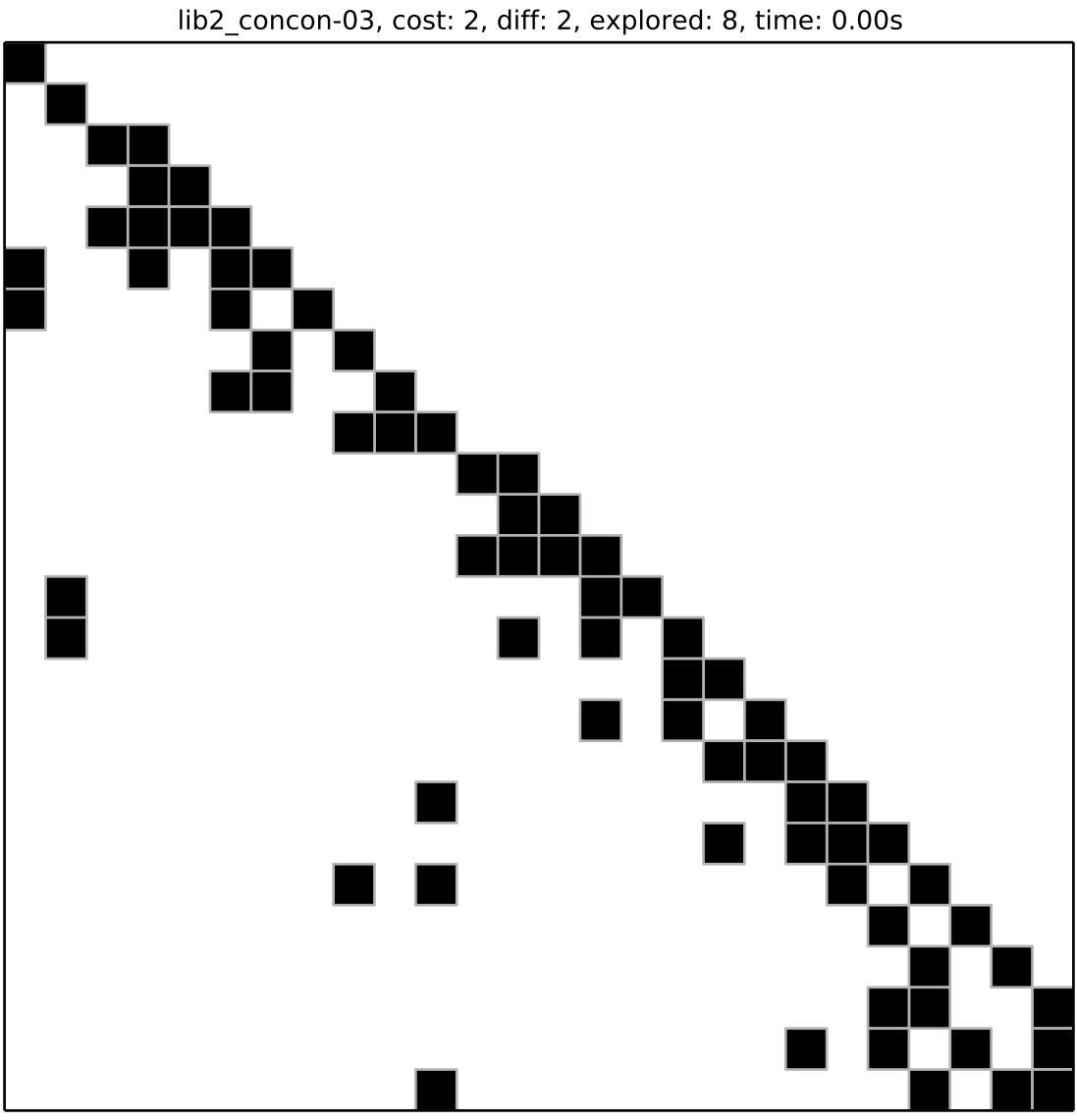
lib2_concon-02 26x26 (74) con: 11, var: 15

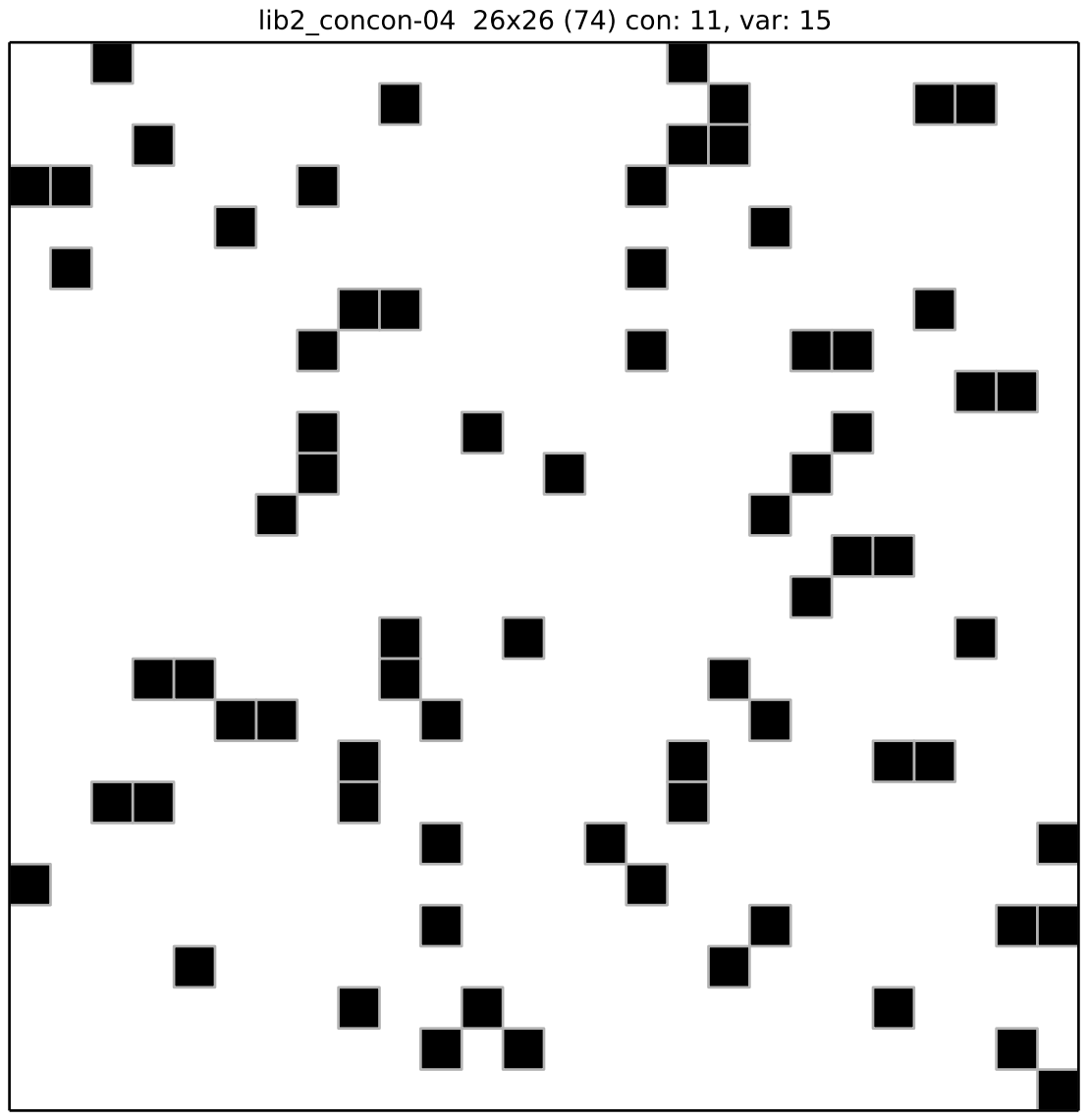


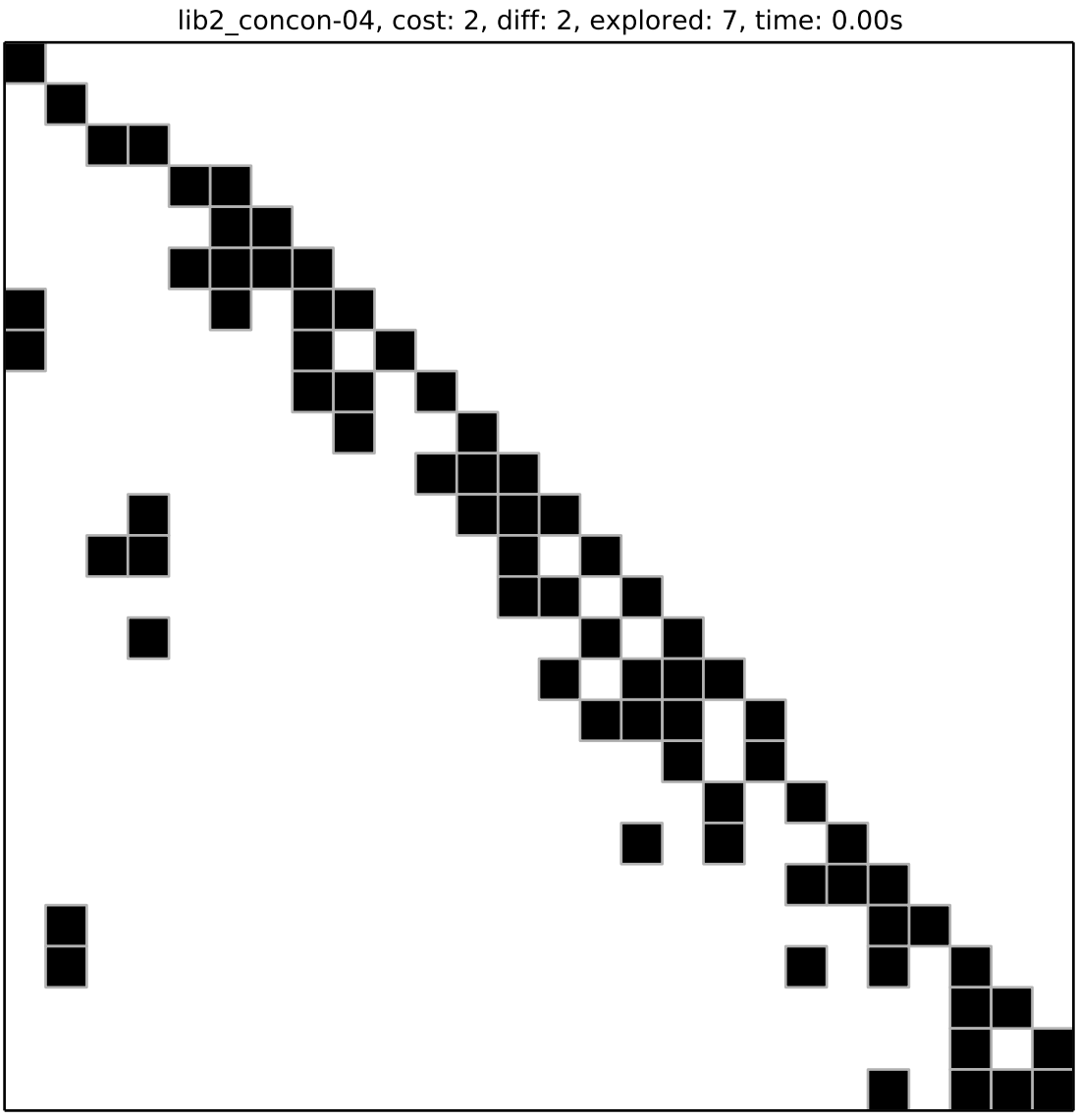

lib2_concon-02, cost: 2, diff: 2, explored: 6, time: 0.00s

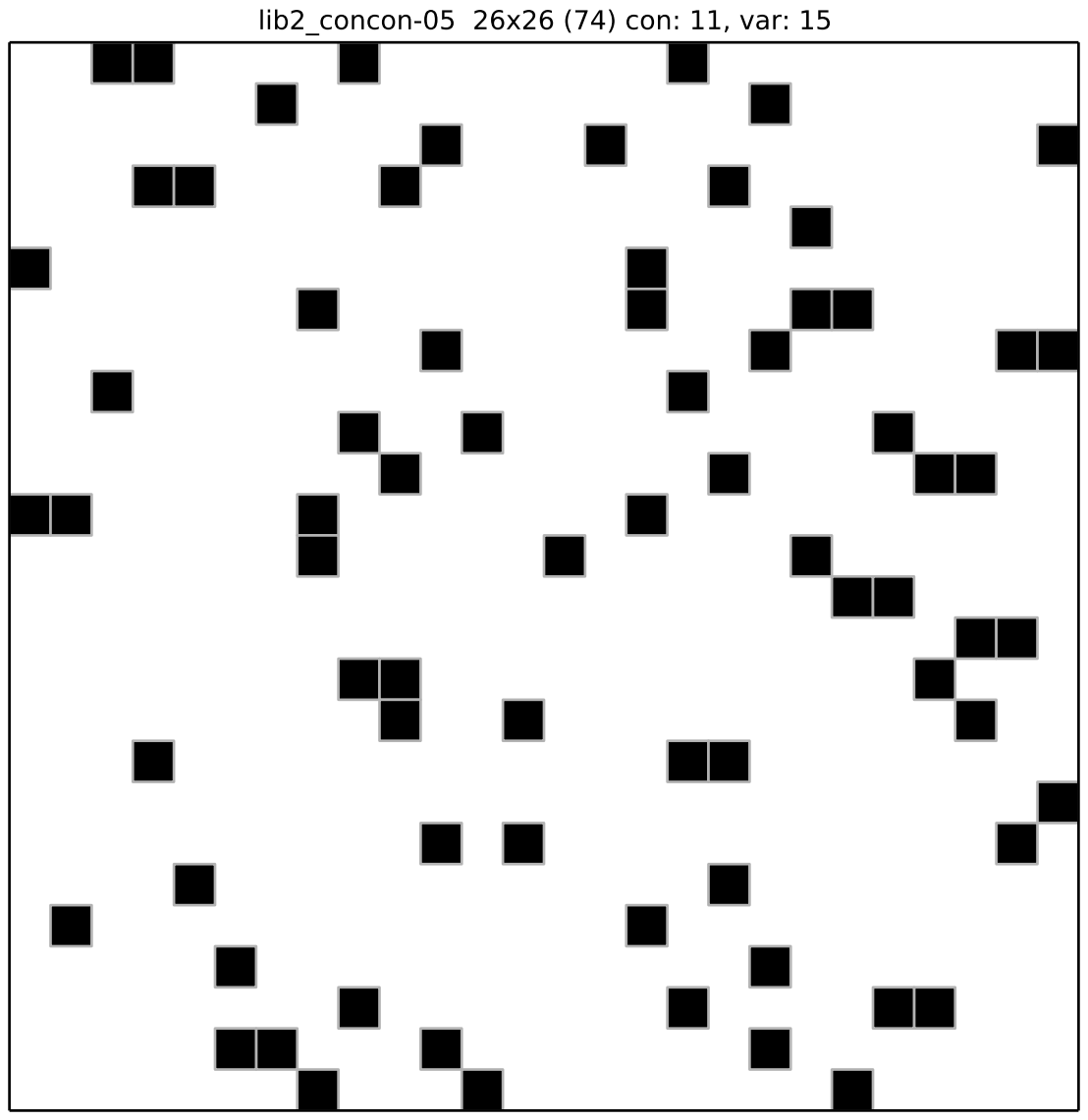
lib2_concon-03 26x26 (74) con: 11, var: 15

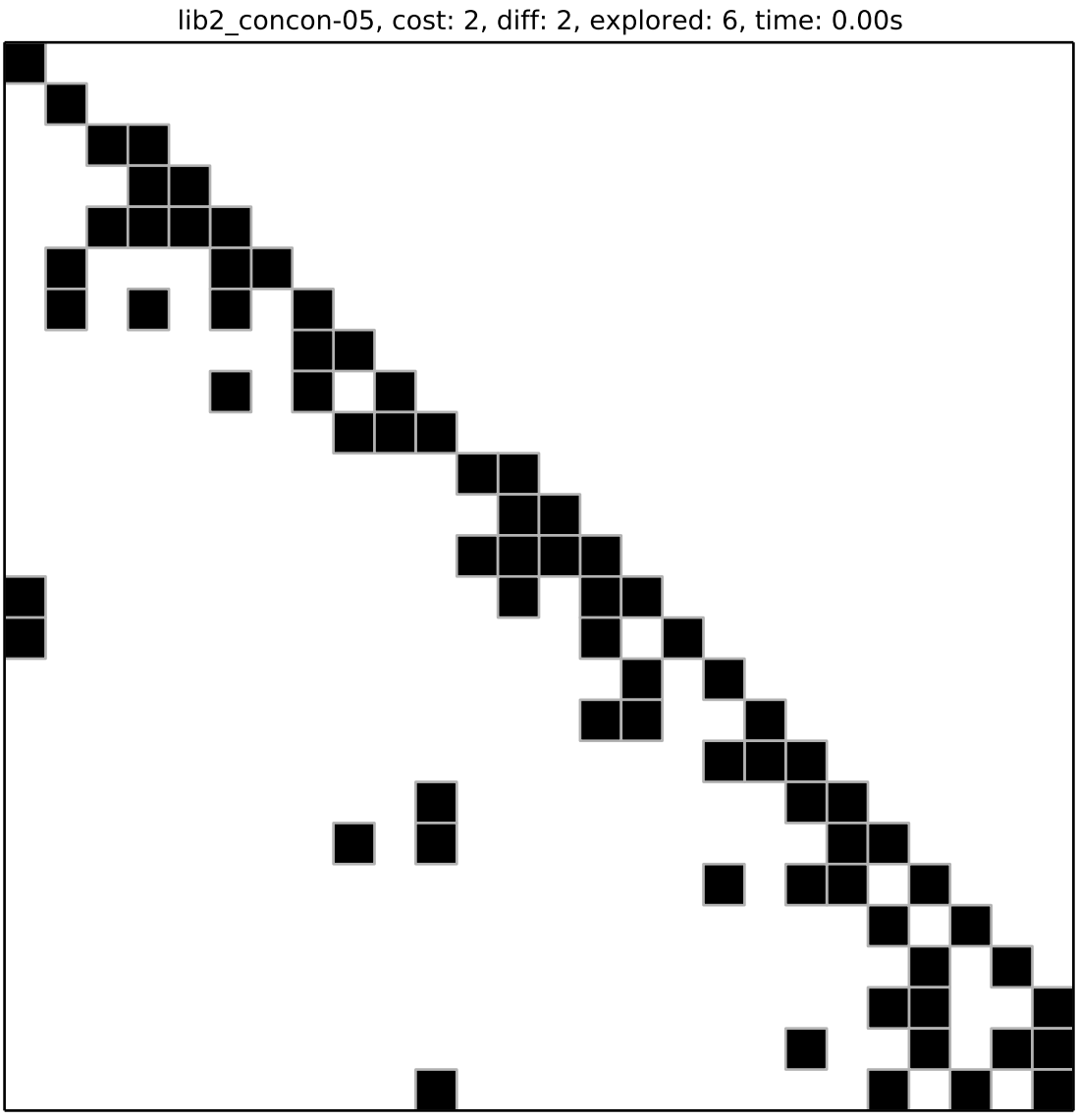



lib2_concon-03, cost: 2, diff: 2, explored: 8, time: 0.00s

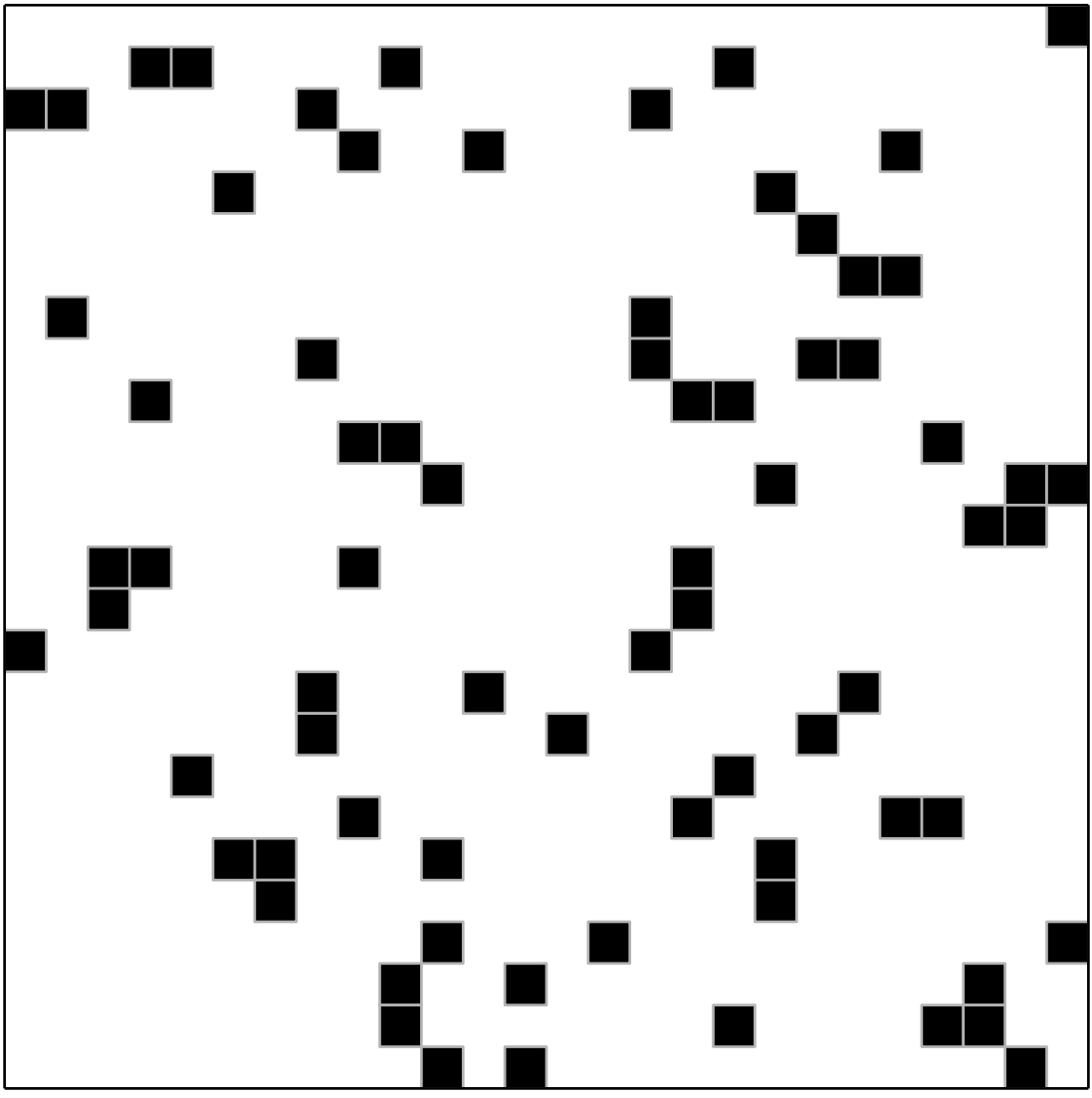

lib2_concon-04 26x26 (74) con: 11, var: 15

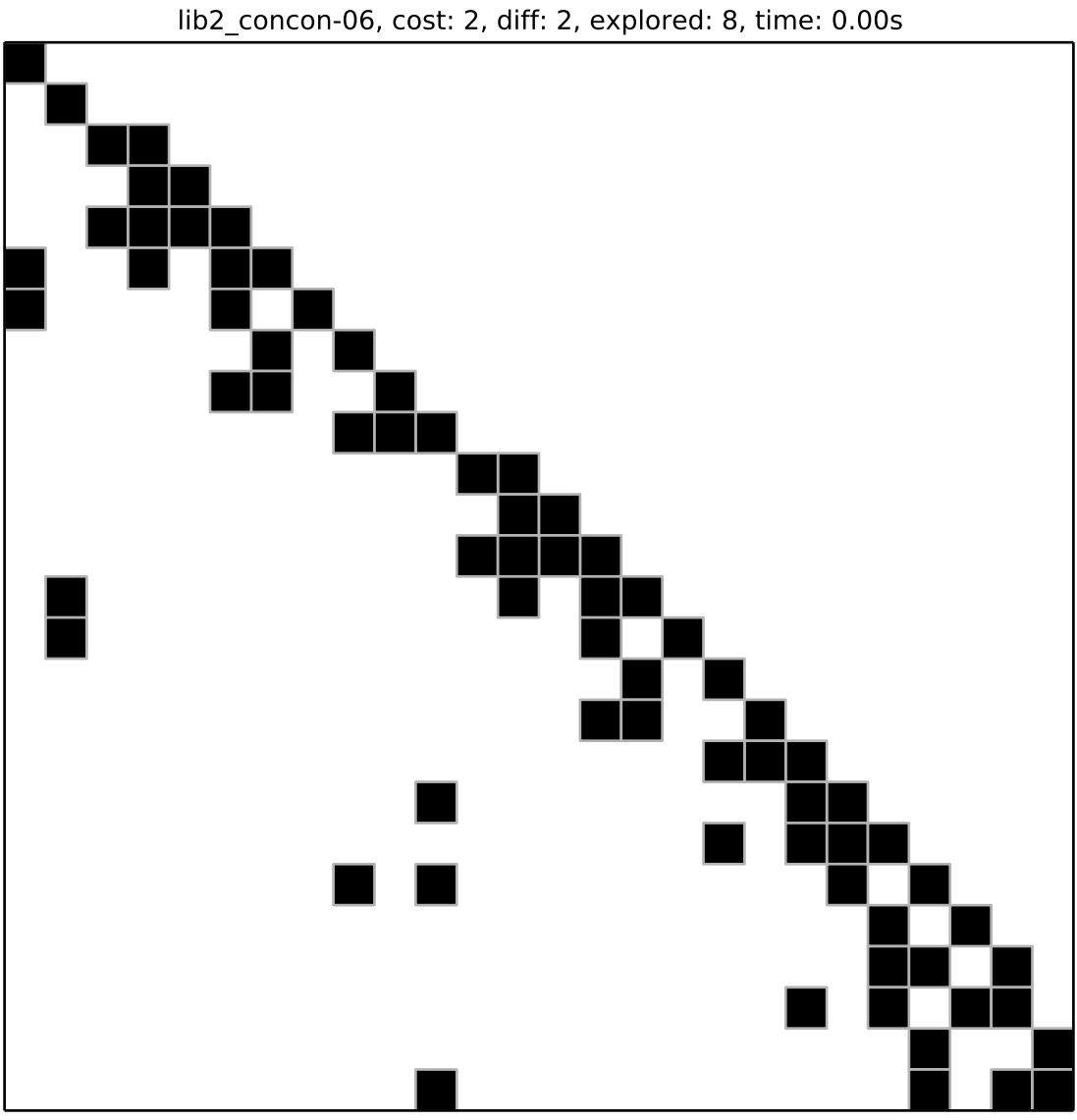

lib2_concon-04, cost: 2, diff: 2, explored: 7, time: 0.00s


lib2_concon-05 26x26 (74) con: 11, var: 15

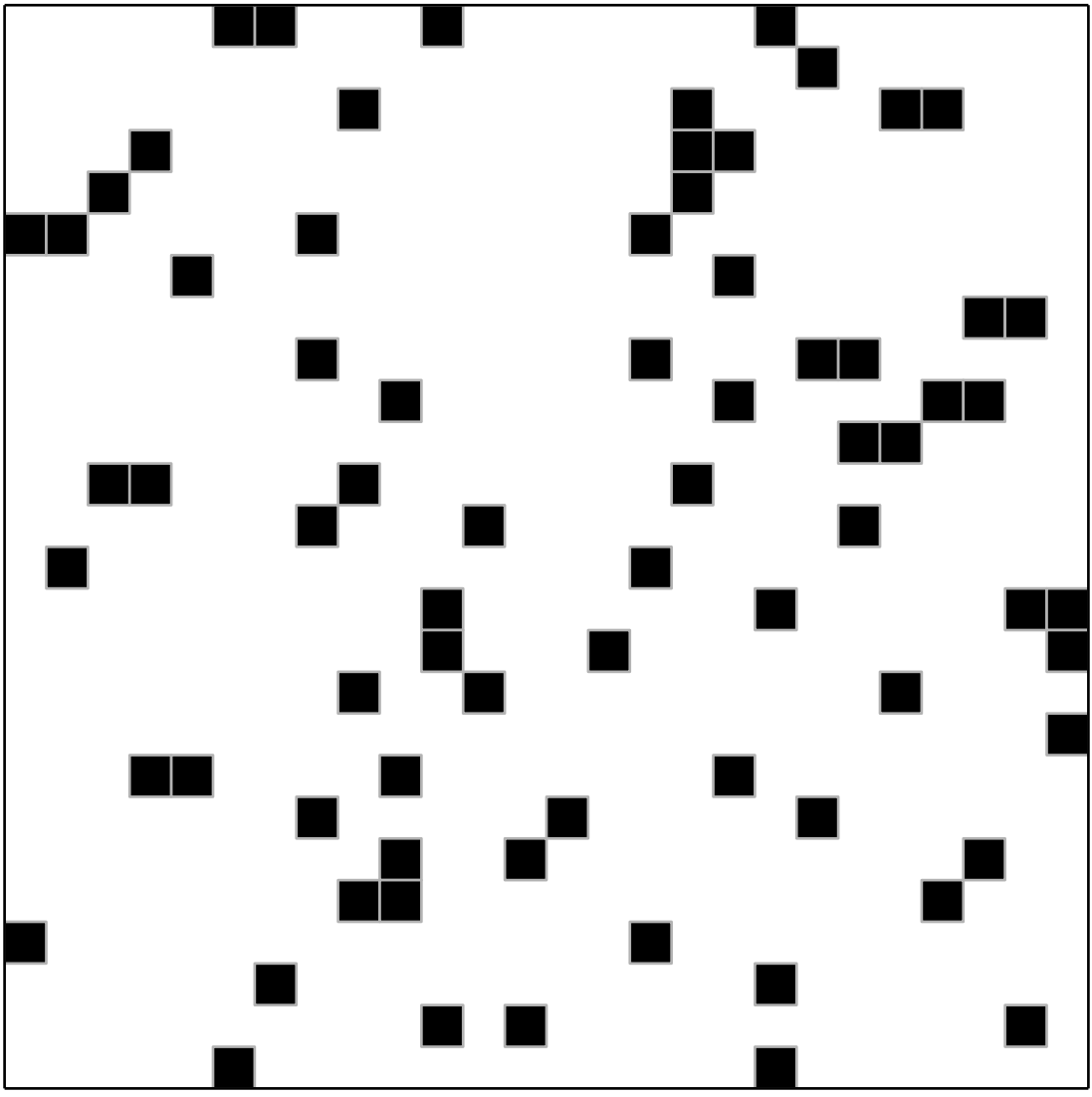

lib2_concon-05, cost: 2, diff: 2, explored: 6, time: 0.00s

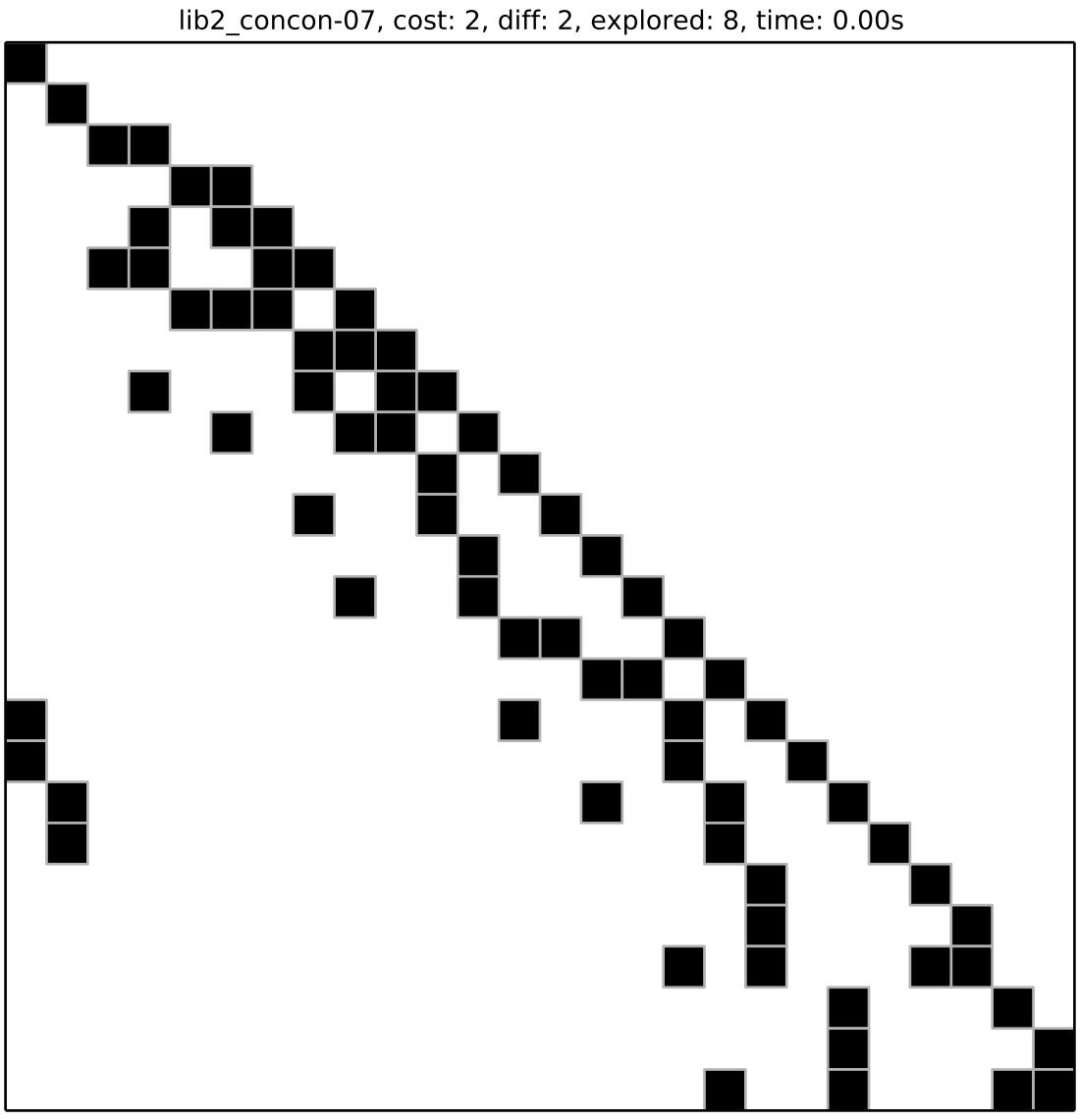
lib2_concon-06 26x26 (74) con: 11, var: 15




lib2_concon-06, cost: 2, diff: 2, explored: 8, time: 0.00s

lib2_concon-07 26x26 (74) con: 11, var: 15

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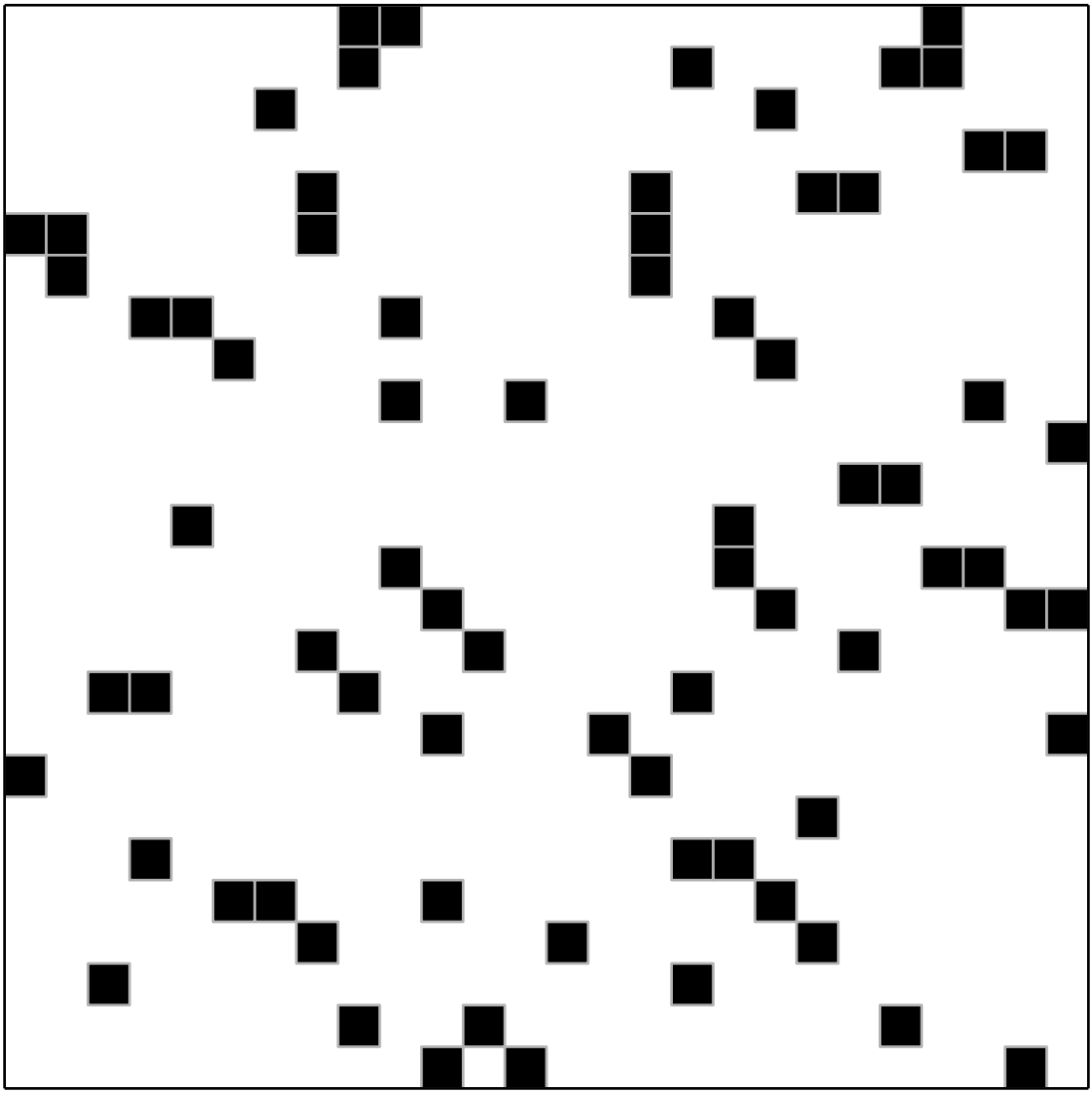
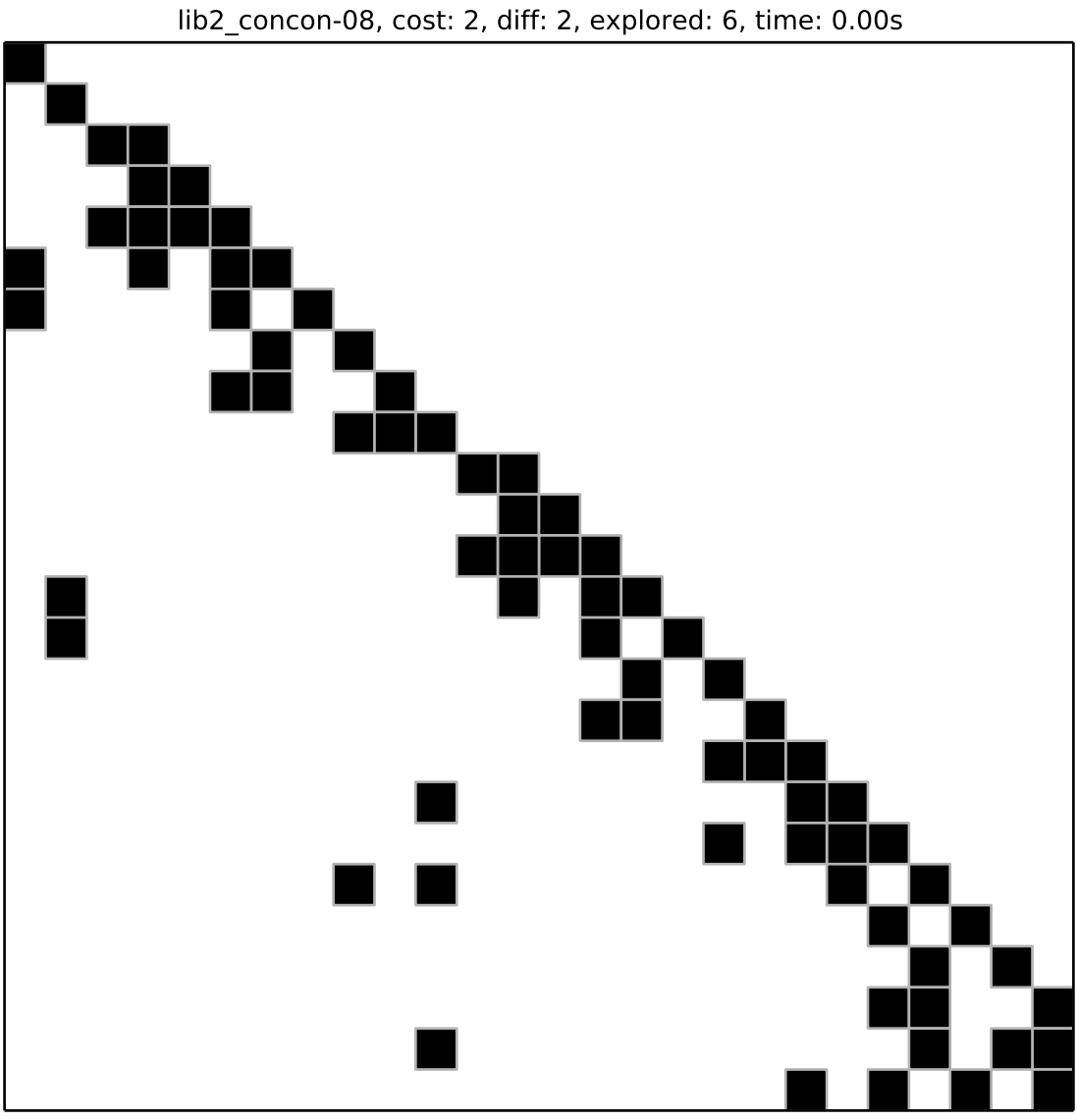
lib2_concon-08 26x26 (74) con: 11, var: 15

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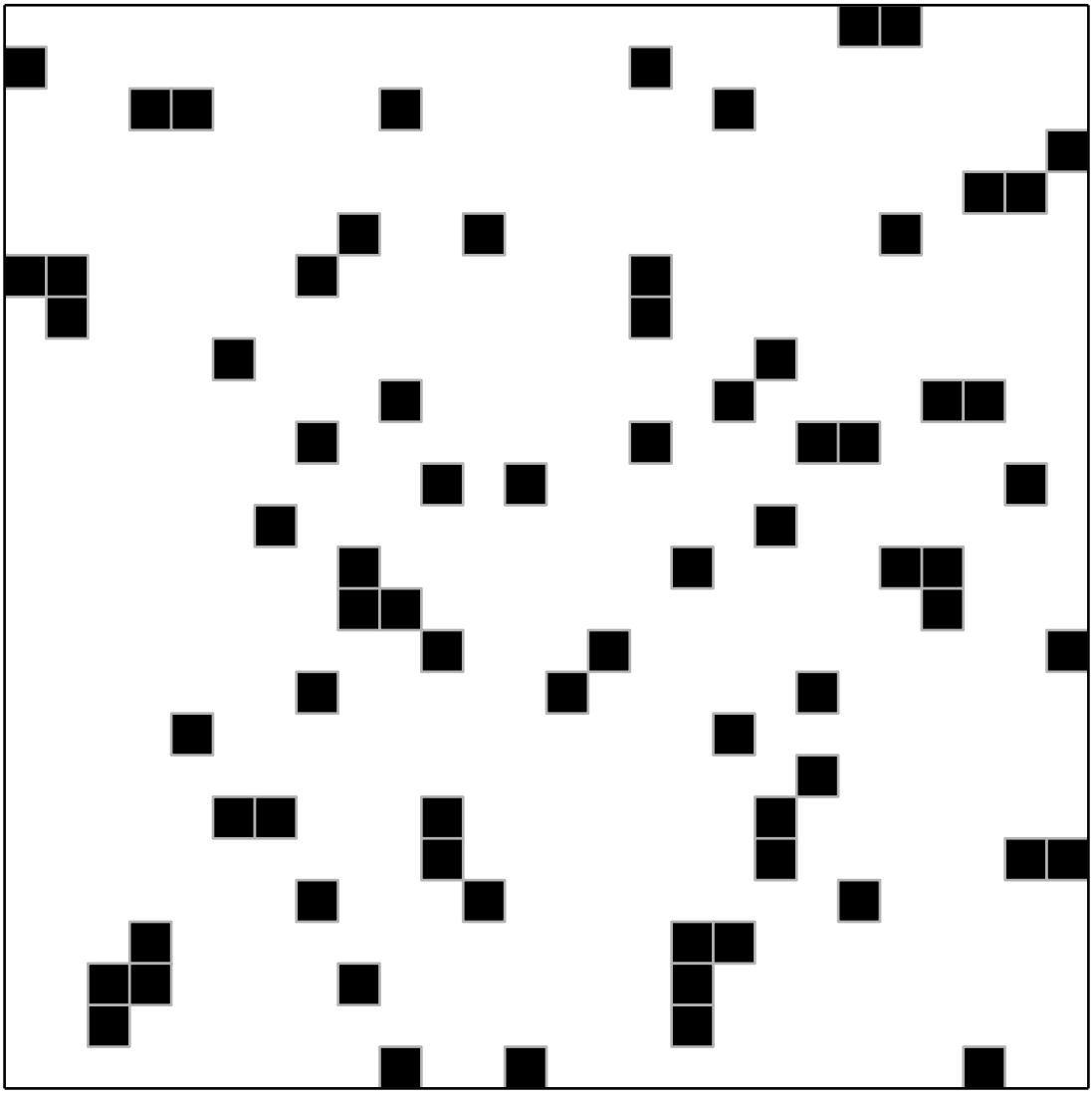
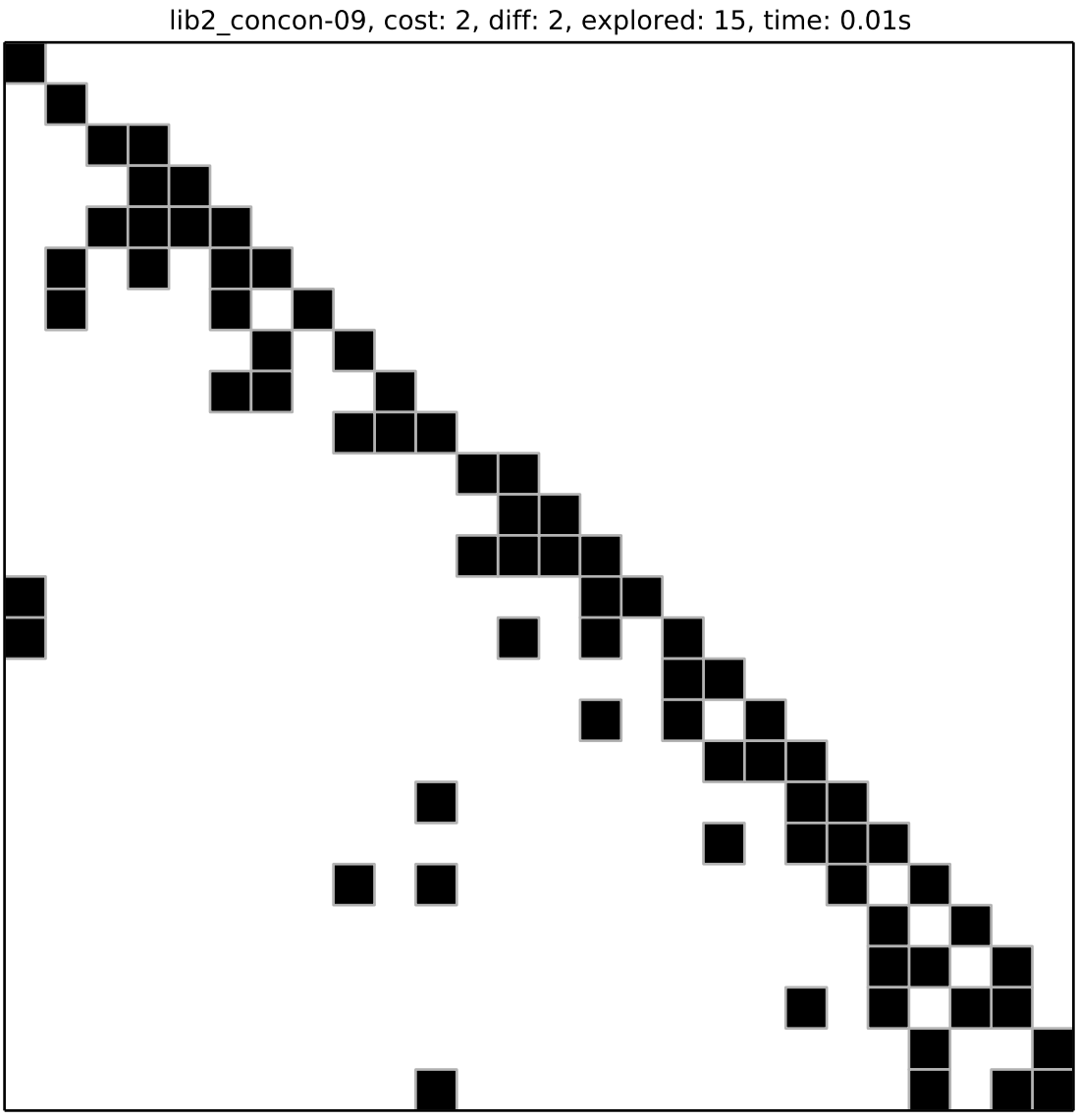
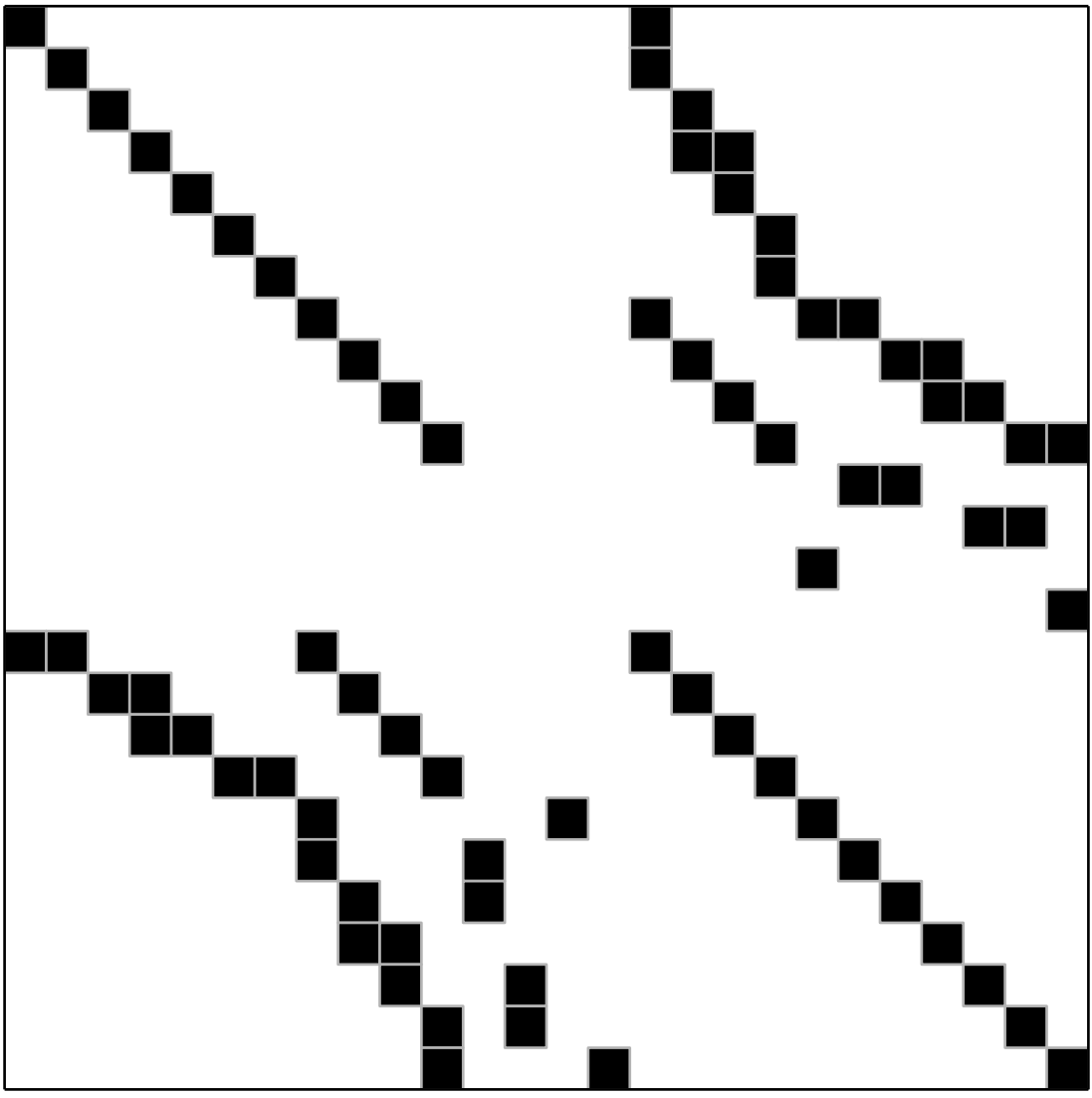
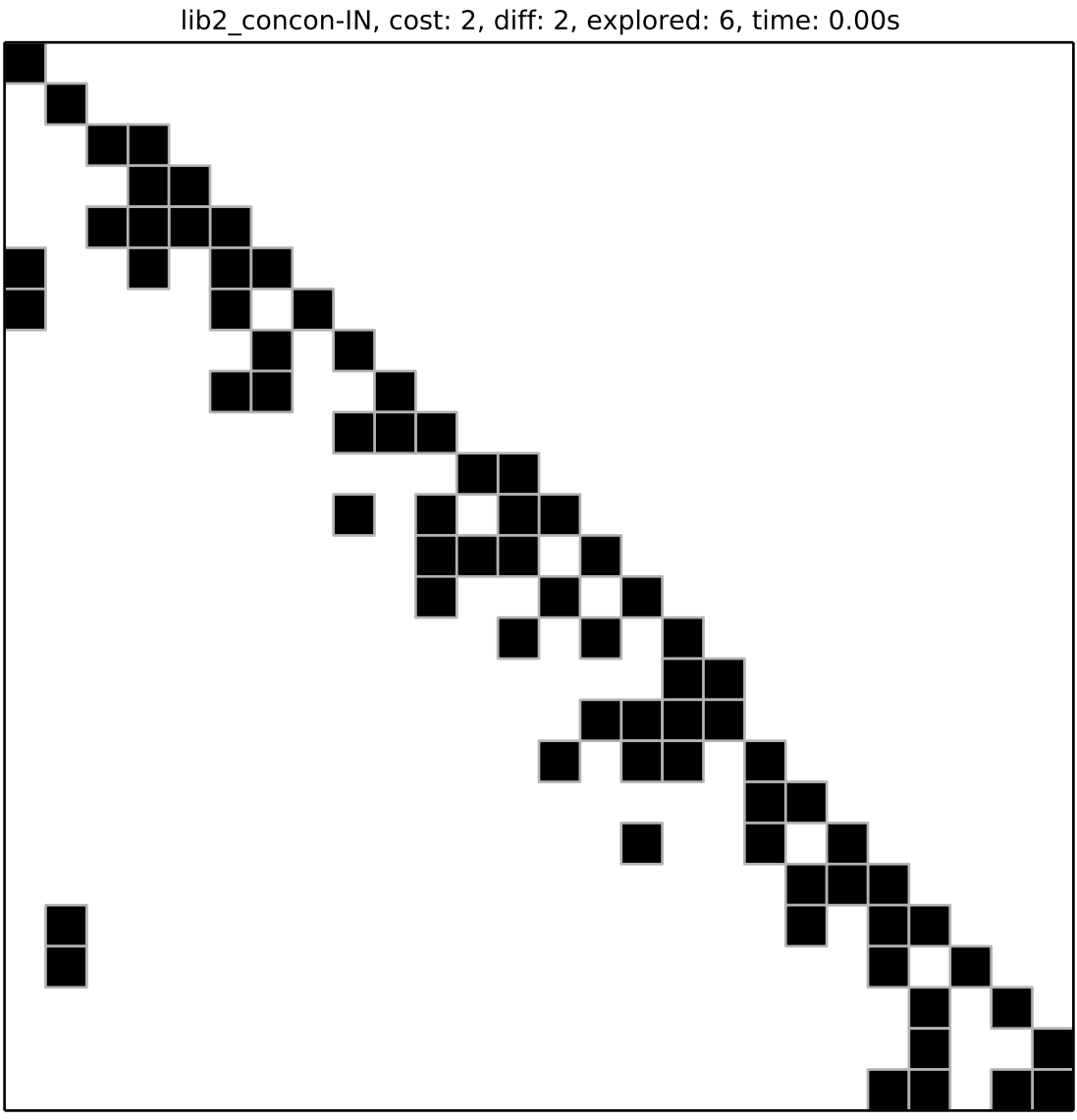
lib2_concon-09 26x26 (74) con: 11, var: 15




lib2_concon-09, cost: 2, diff: 2, explored: 15, time: 0.01s


lib2_concon-IN 26x26 (74) con: 11, var: 15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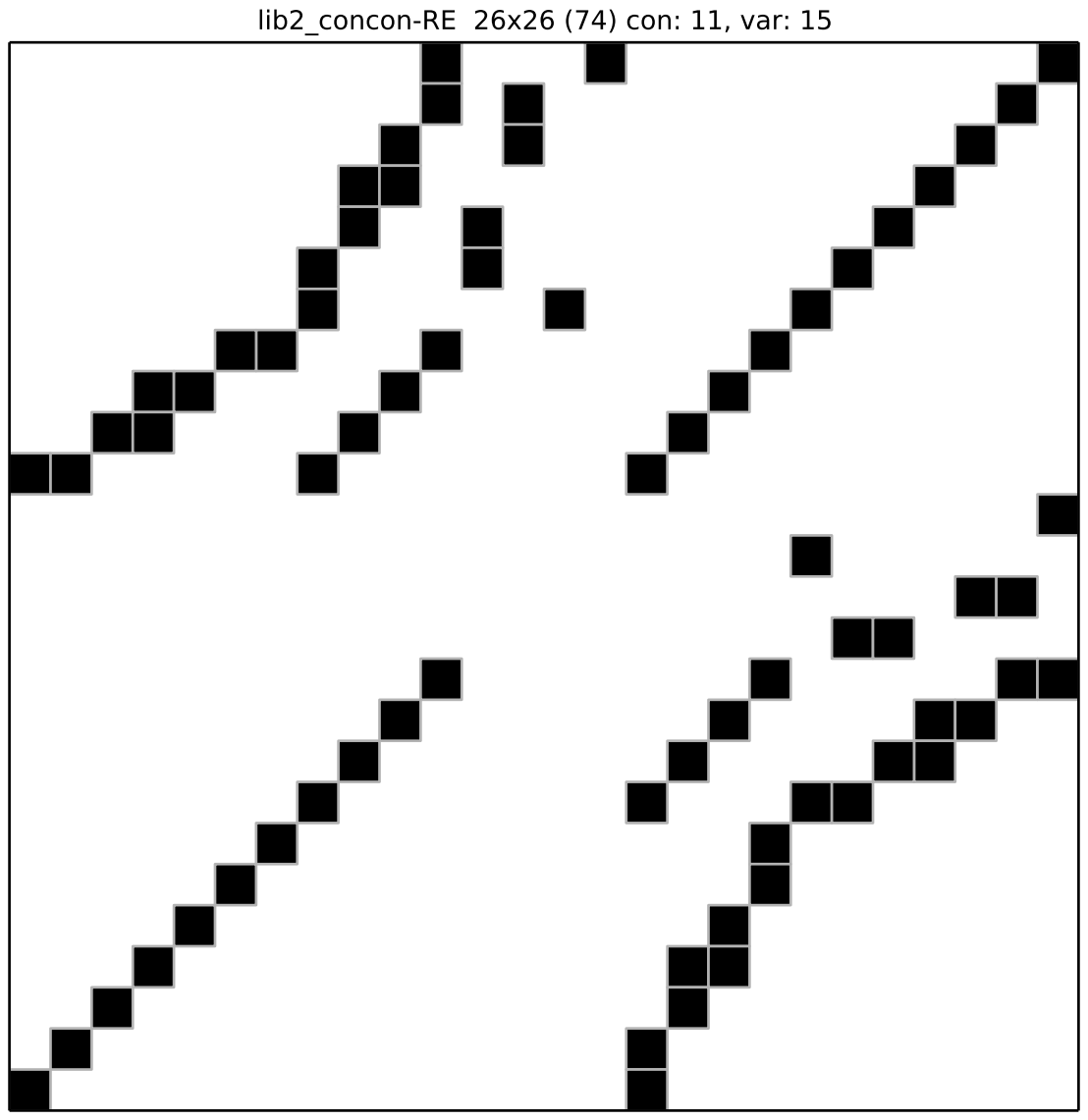
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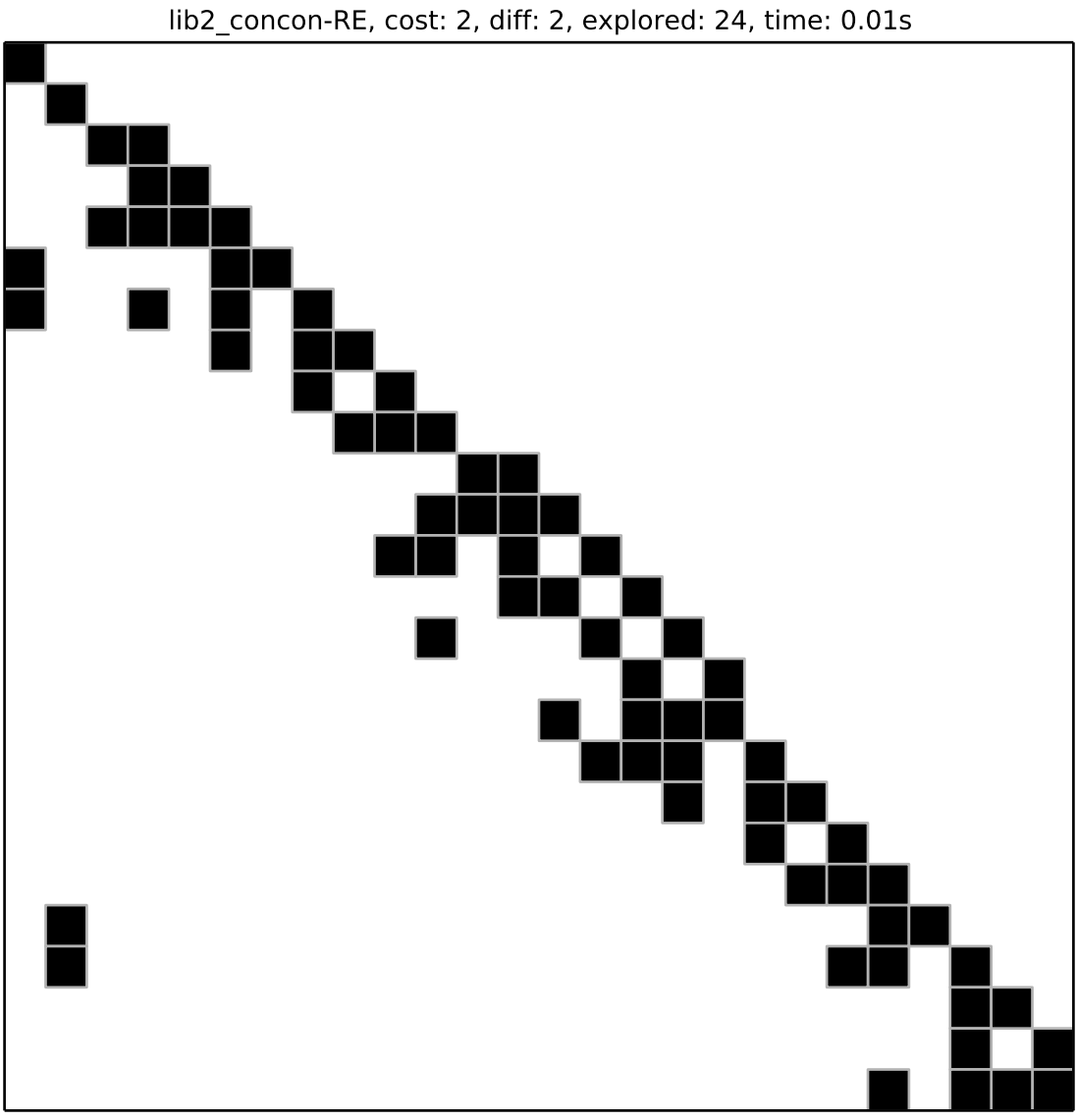
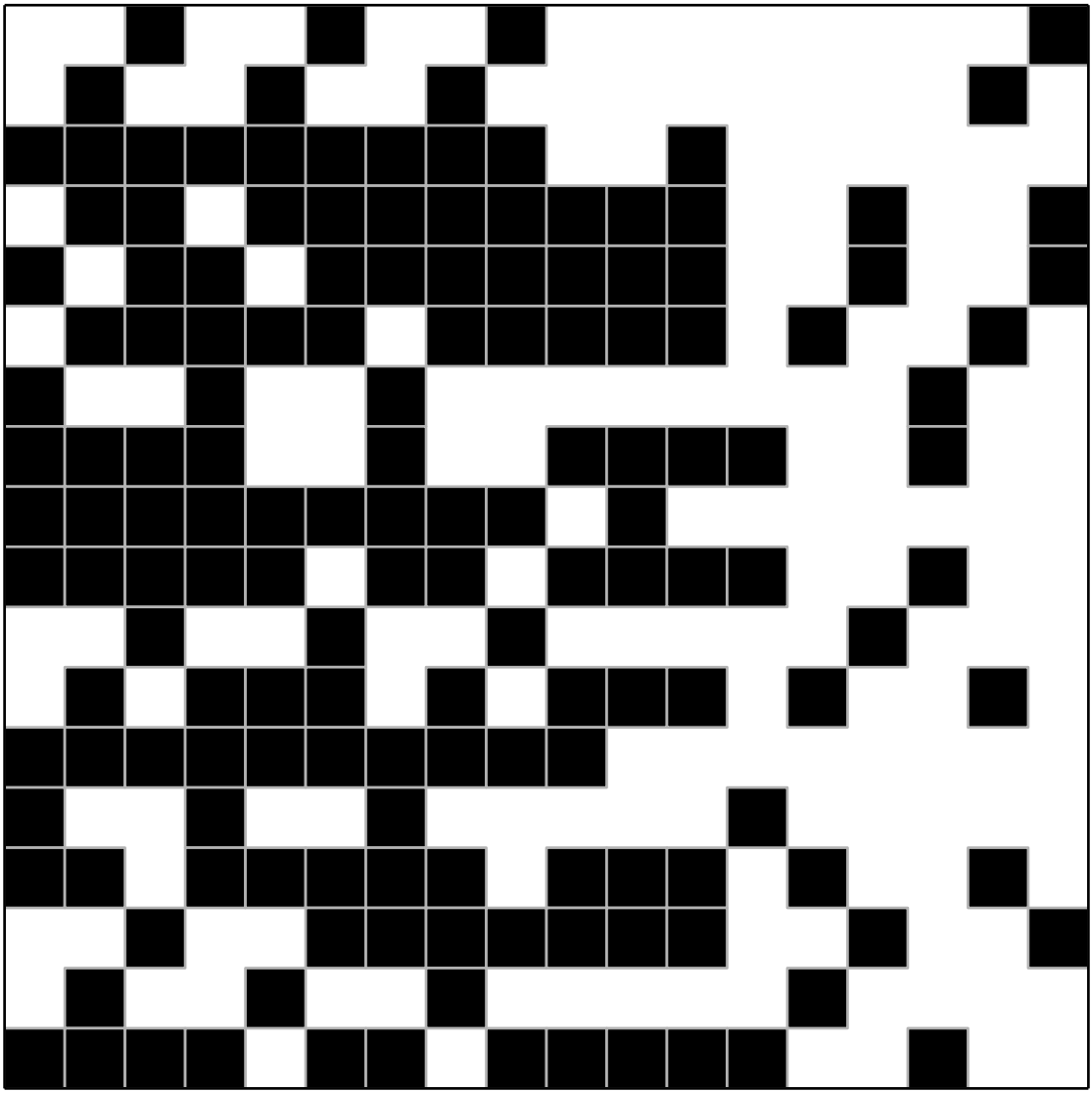
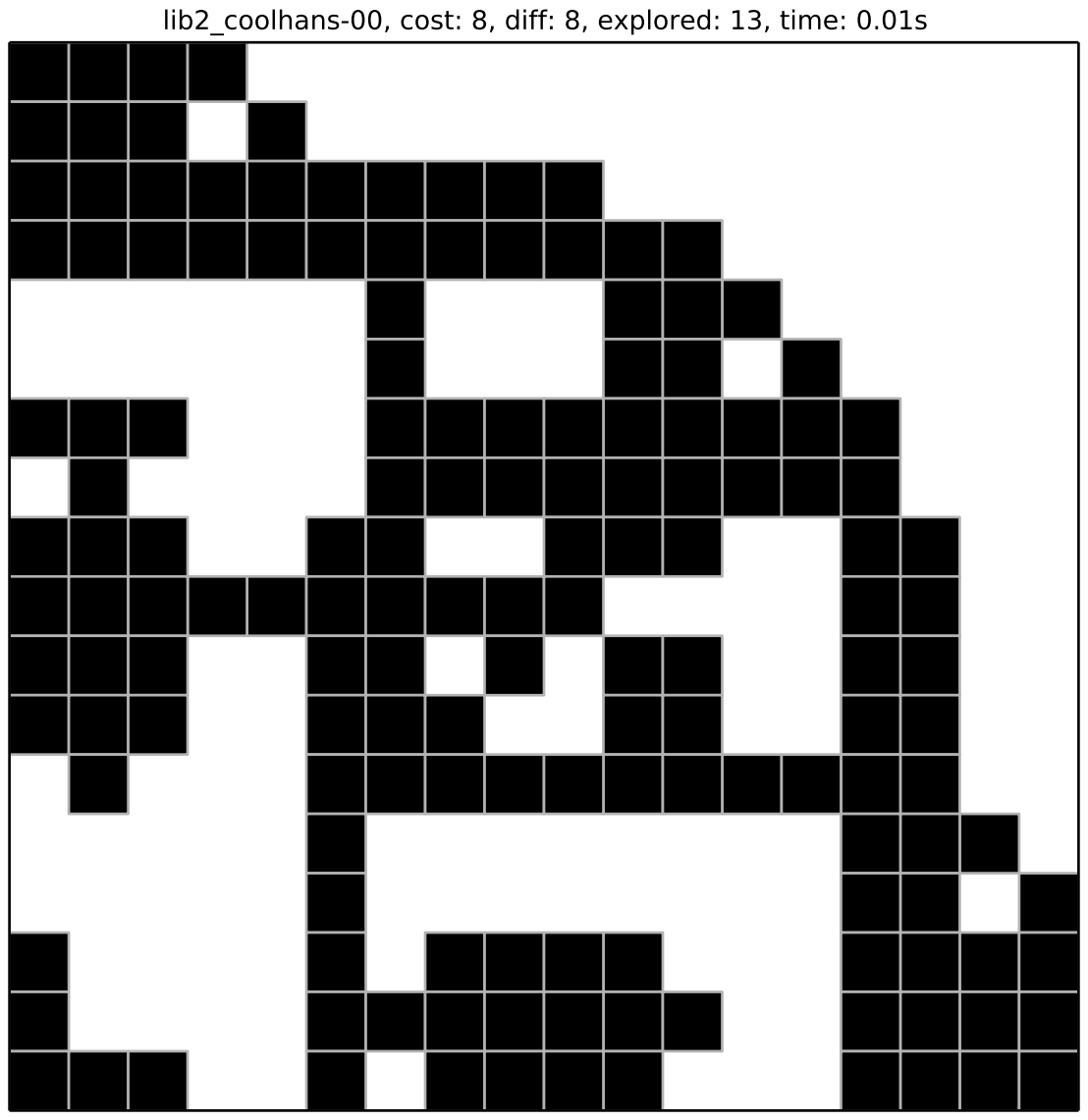
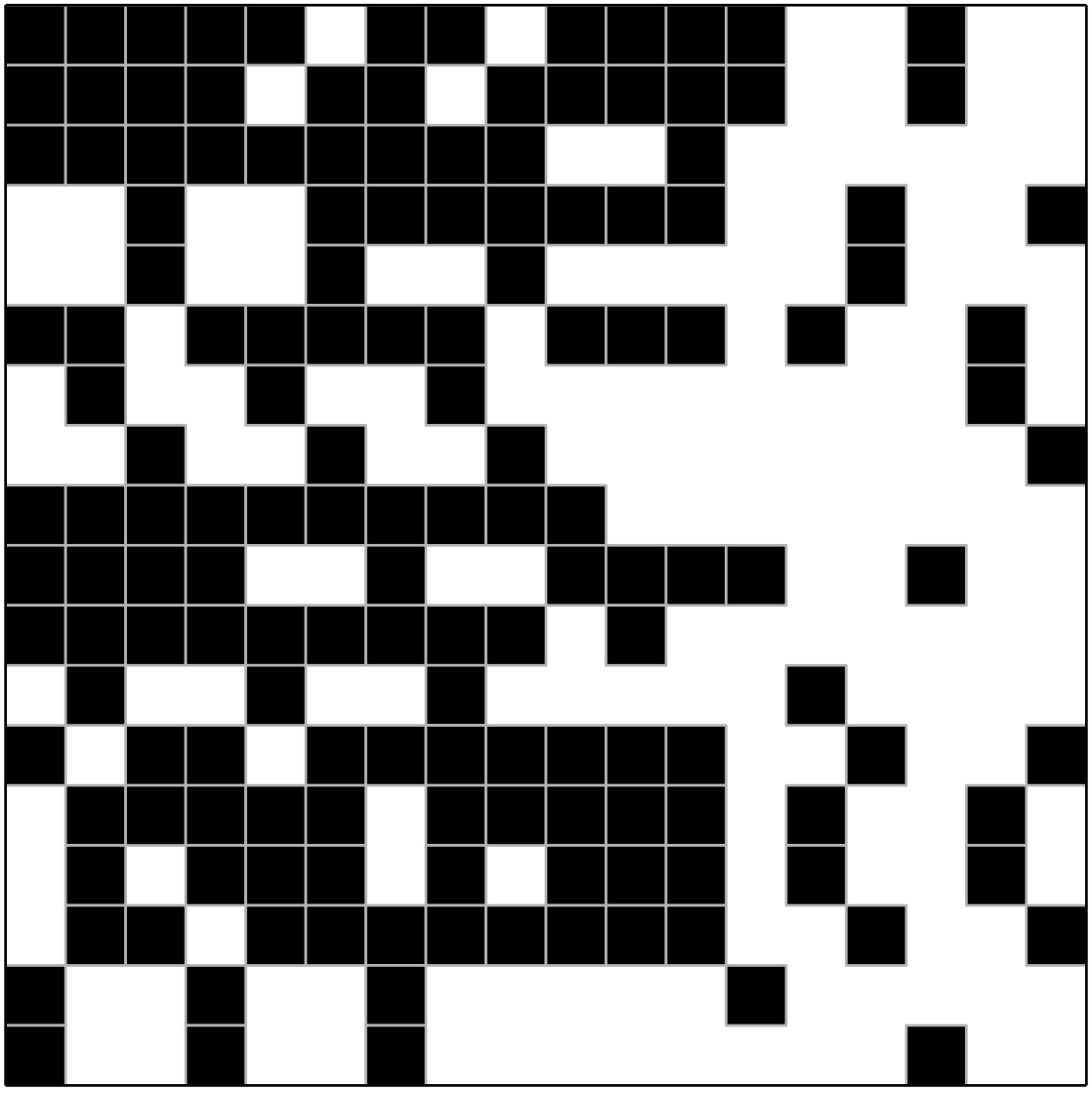

lib2_concon-RE, cost: 2, diff: 2, explored: 24, time: 0.01s

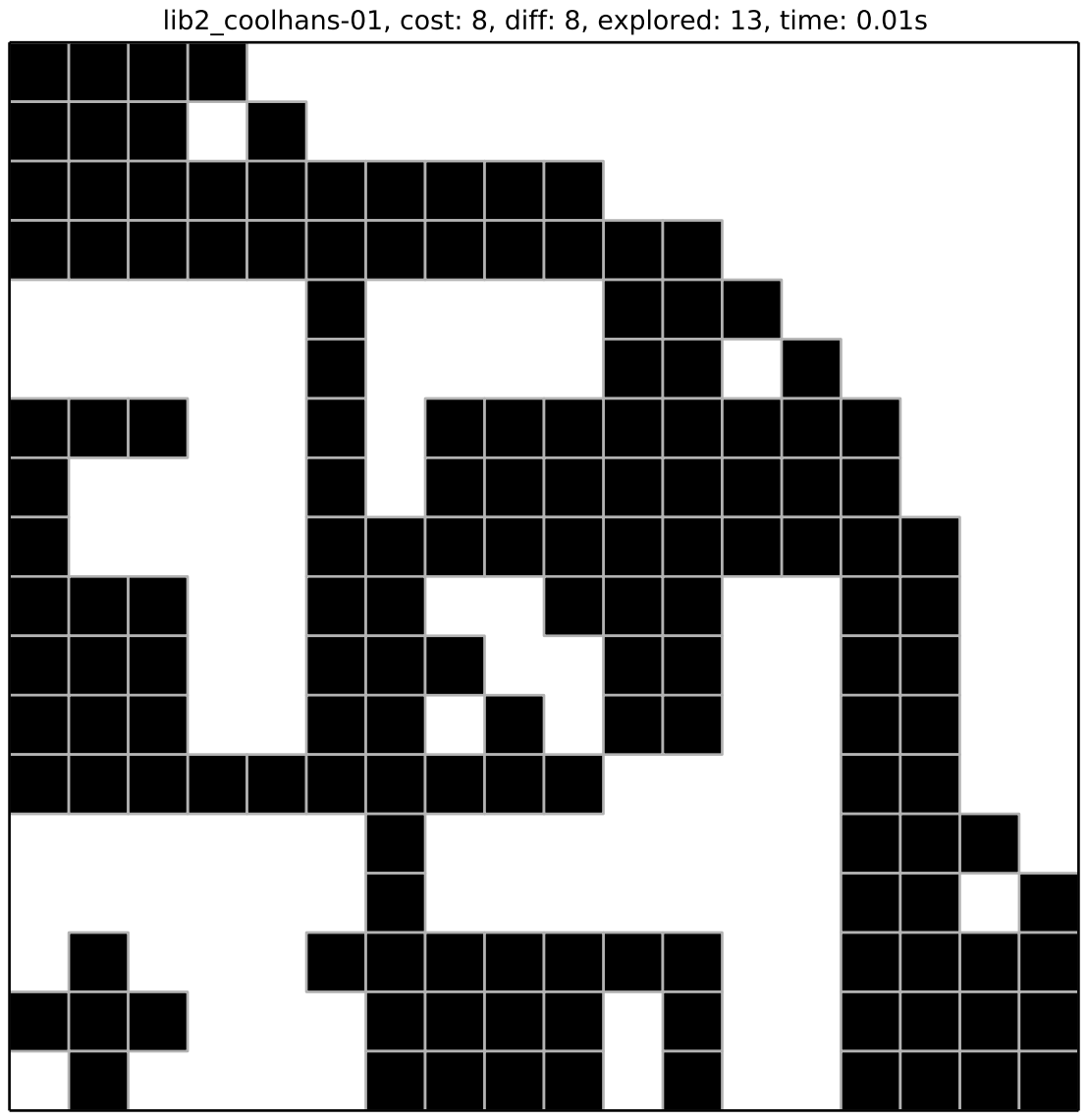
lib2_coolhans-00 18x18 (156) con: 9, var: 9




lib2_coolhans-00, cost: 8, diff: 8, explored: 13, time: 0.01s

lib2_coolhans-01 18x18 (156) con: 9, var: 9

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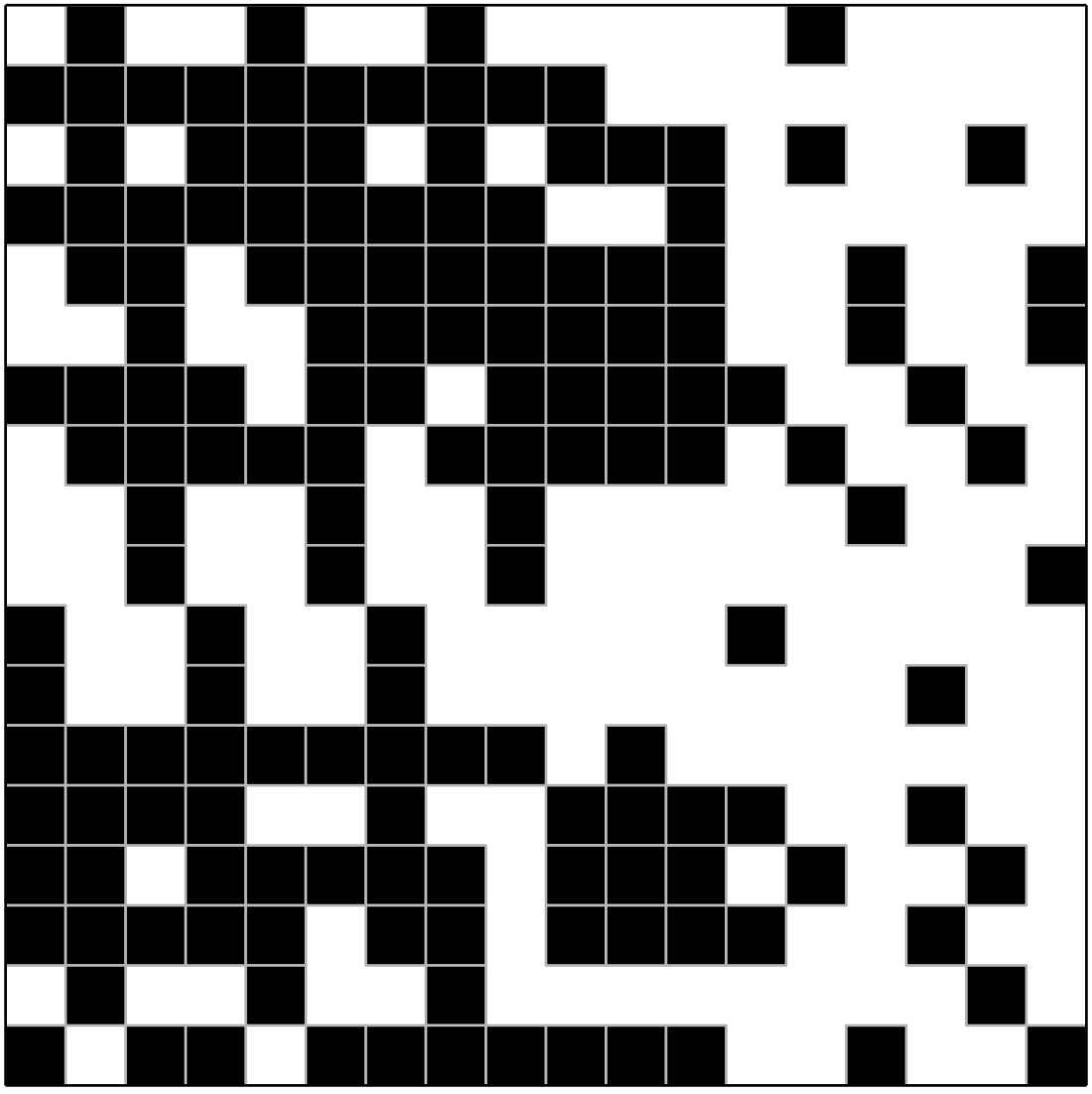
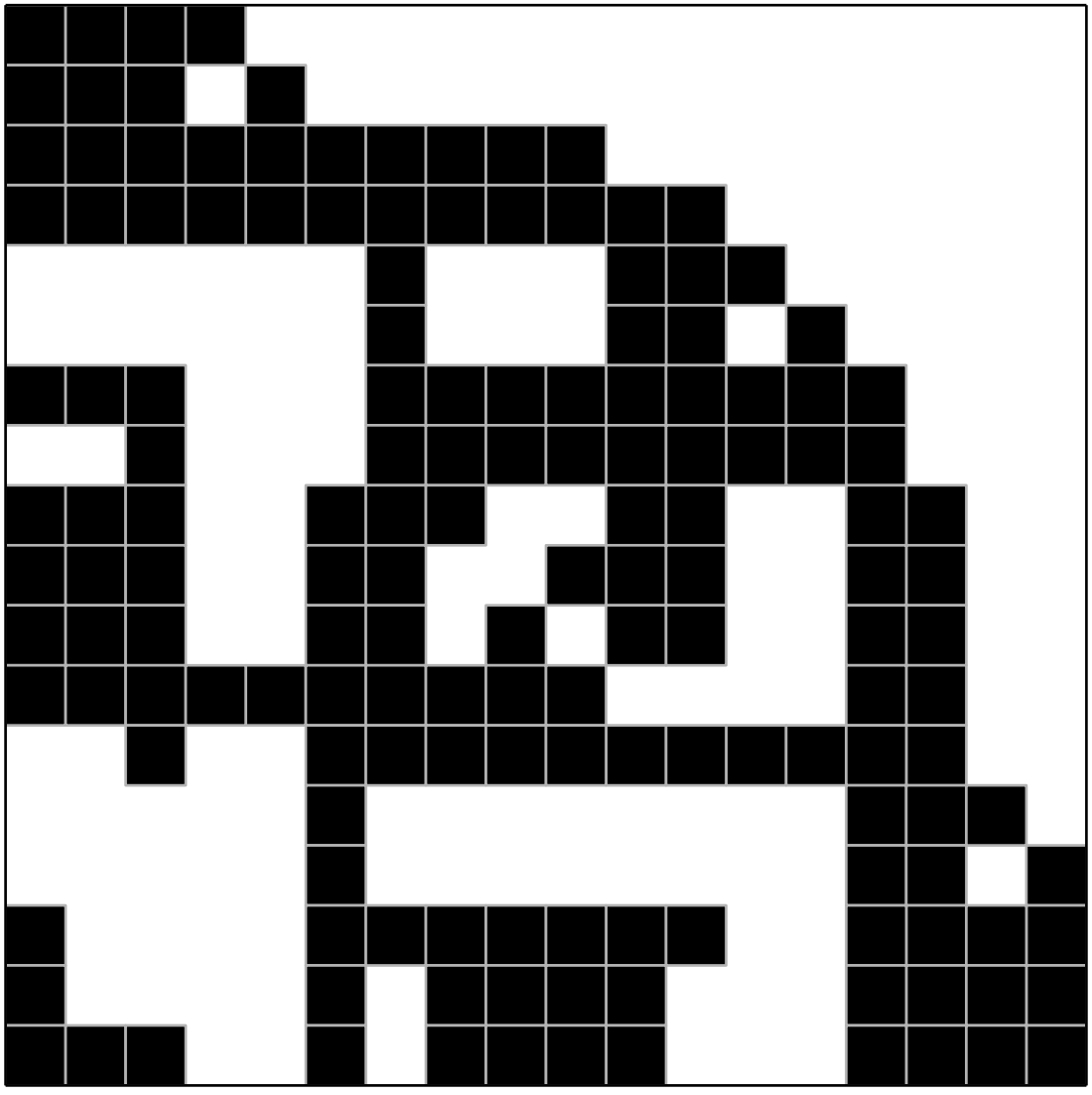
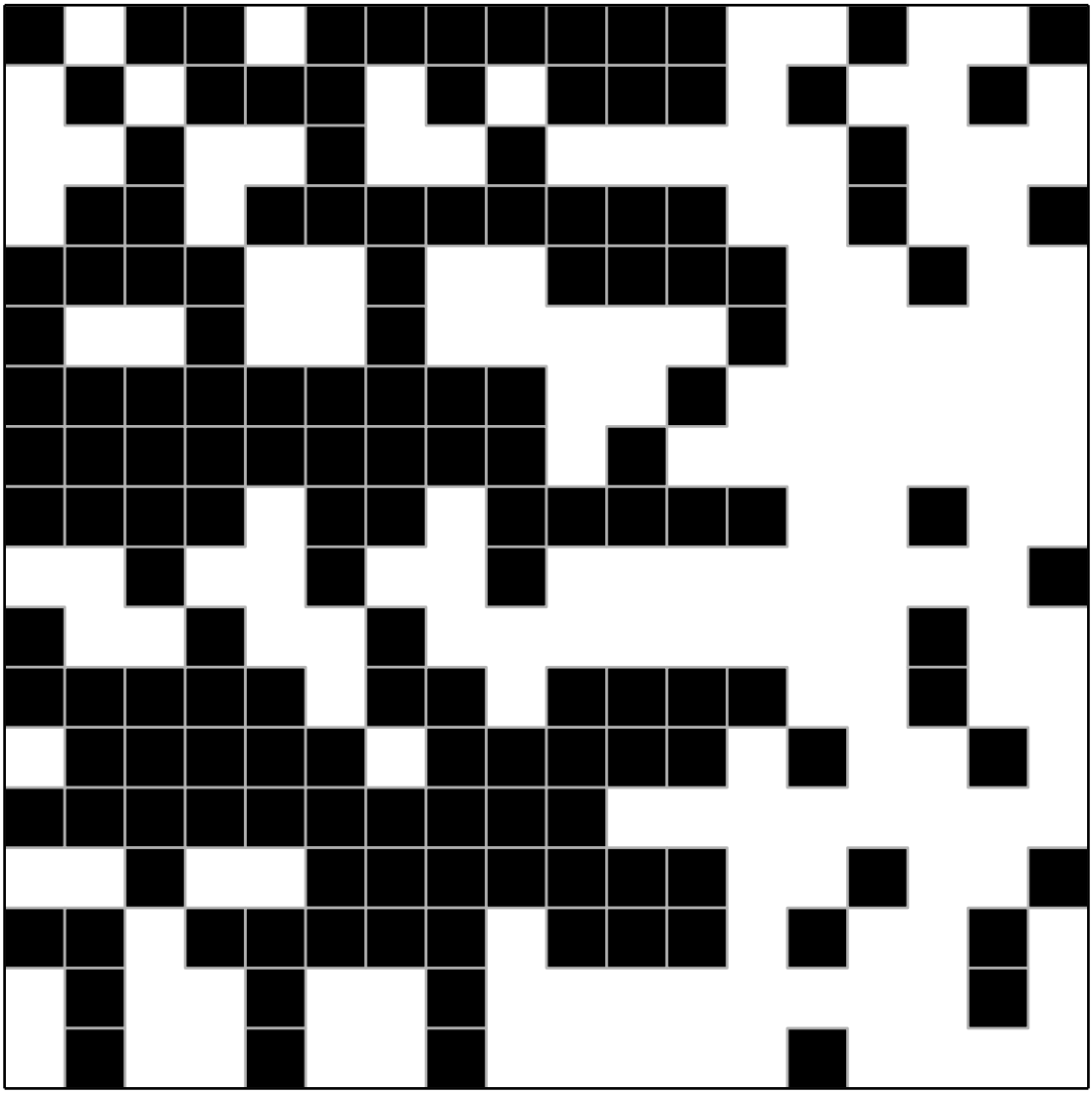
lib2_coolhans-02 18x18 (156) con: 9, var: 9

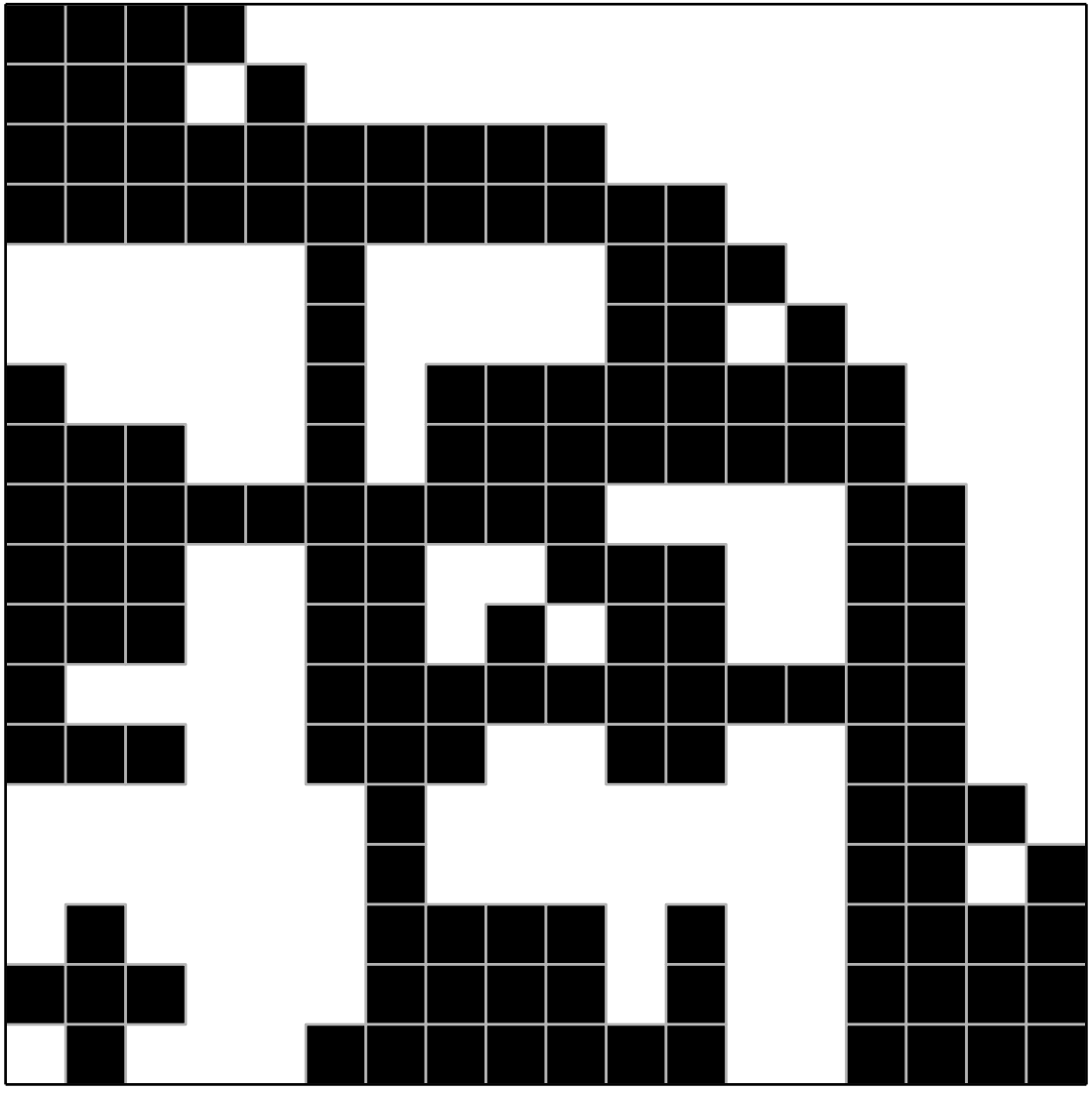


lib2_coolhans-02, cost: 8, diff: 8, explored: 13, time: 0.00s

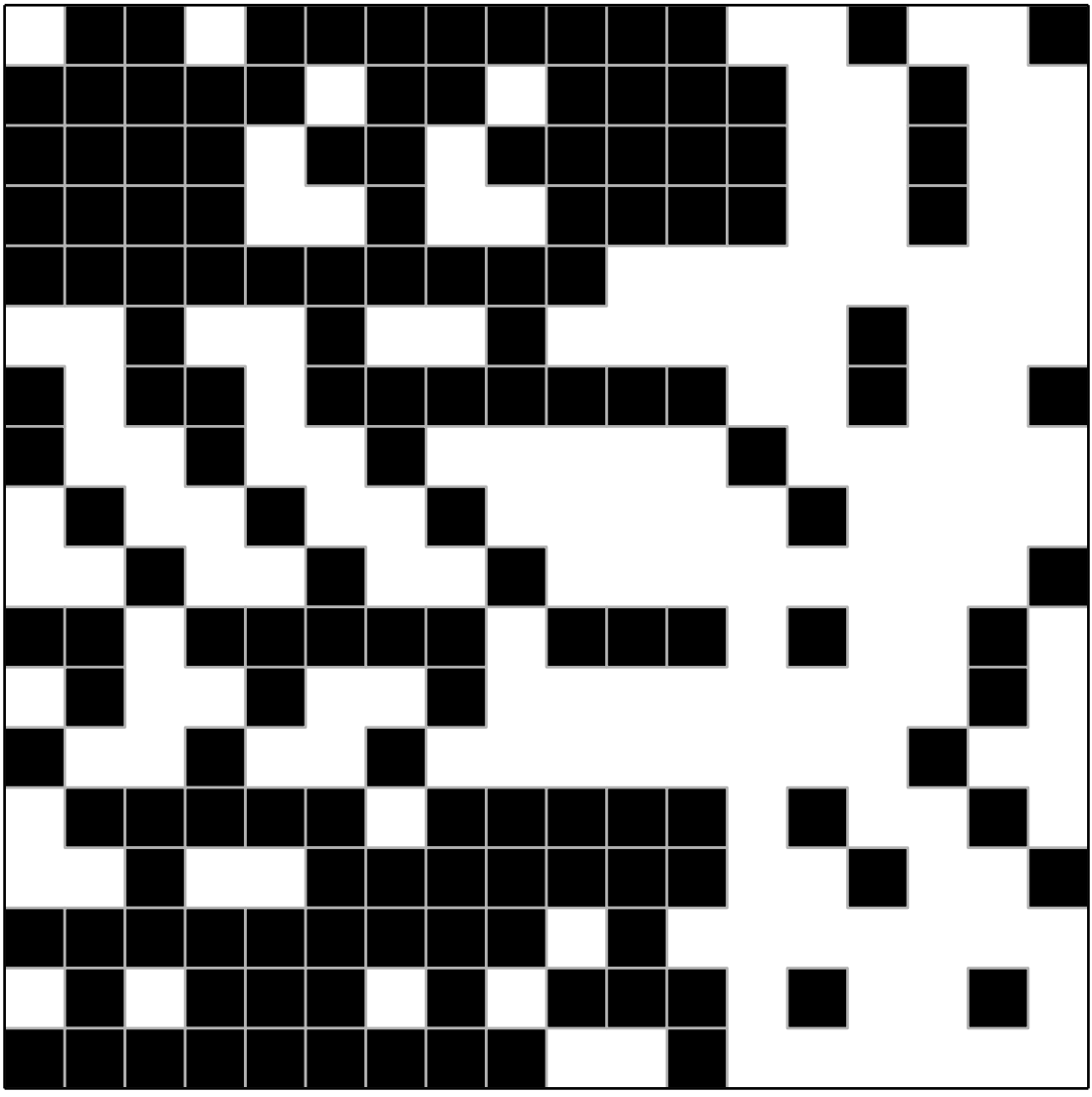


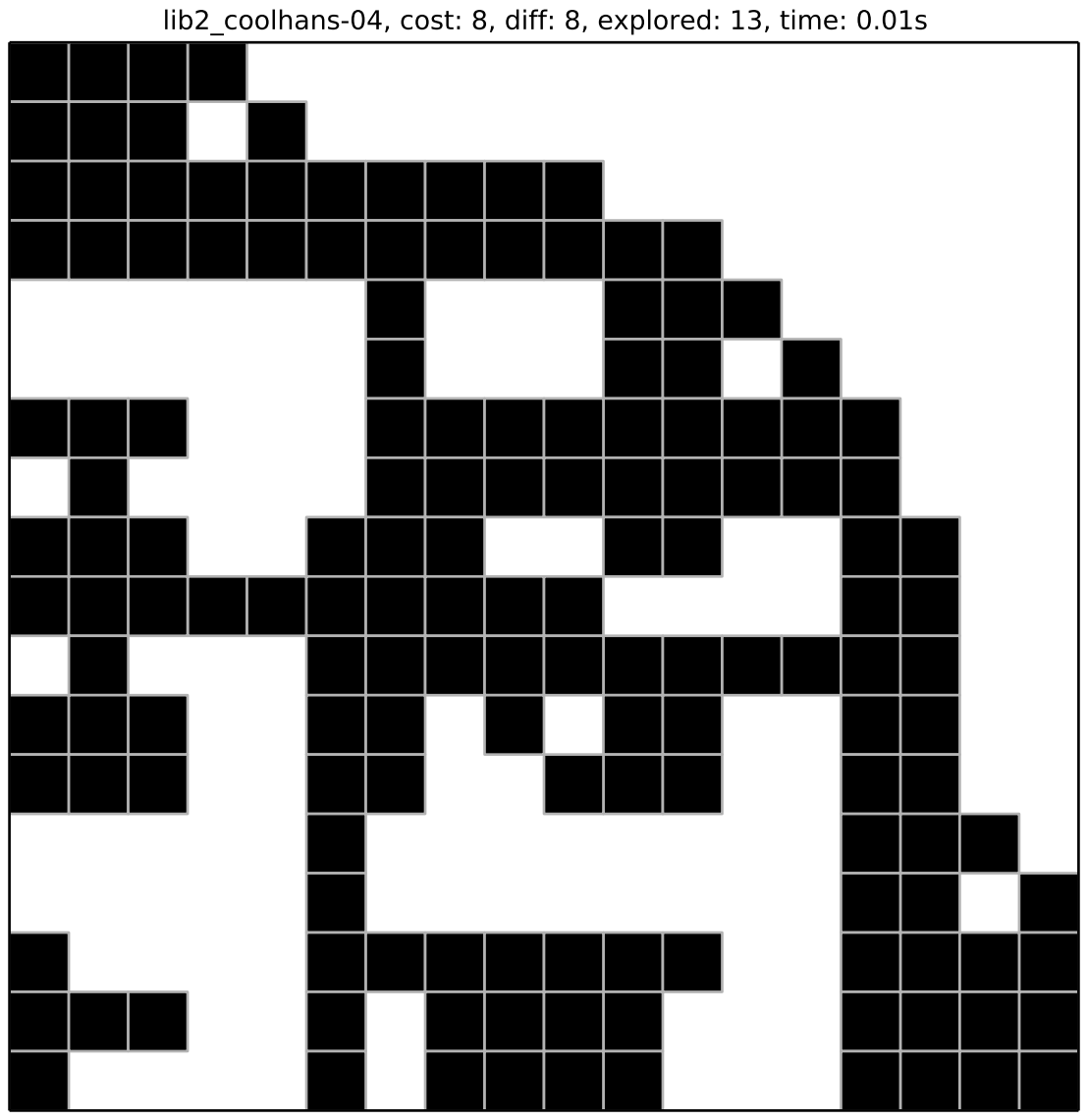

lib2_coolhans-03 18x18 (156) con: 9, var: 9

lib2_coolhans-03, cost: 8, diff: 8, explored: 13, time: 0.00s



lib2_coolhans-04 18x18 (156) con: 9, var: 9

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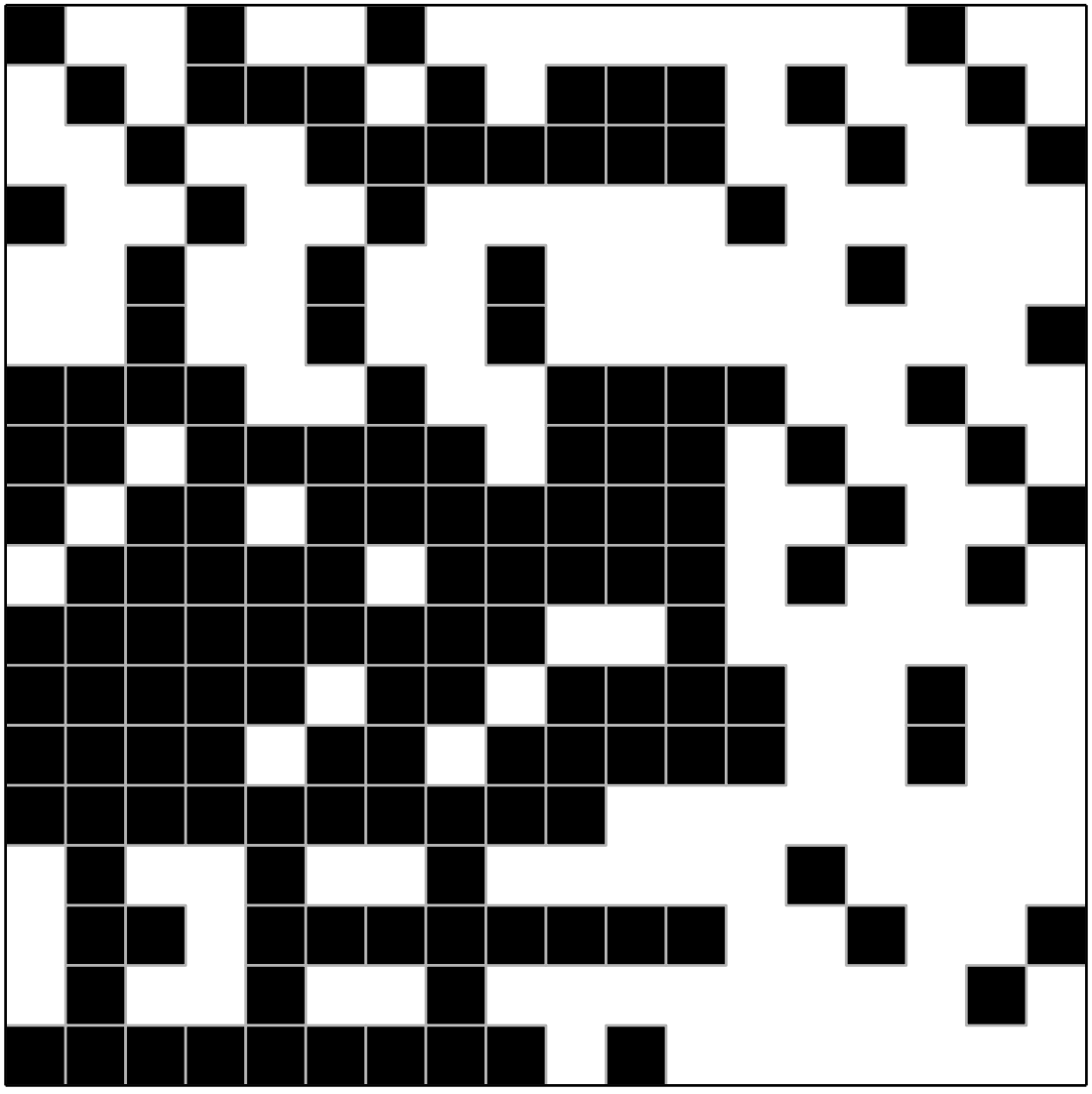
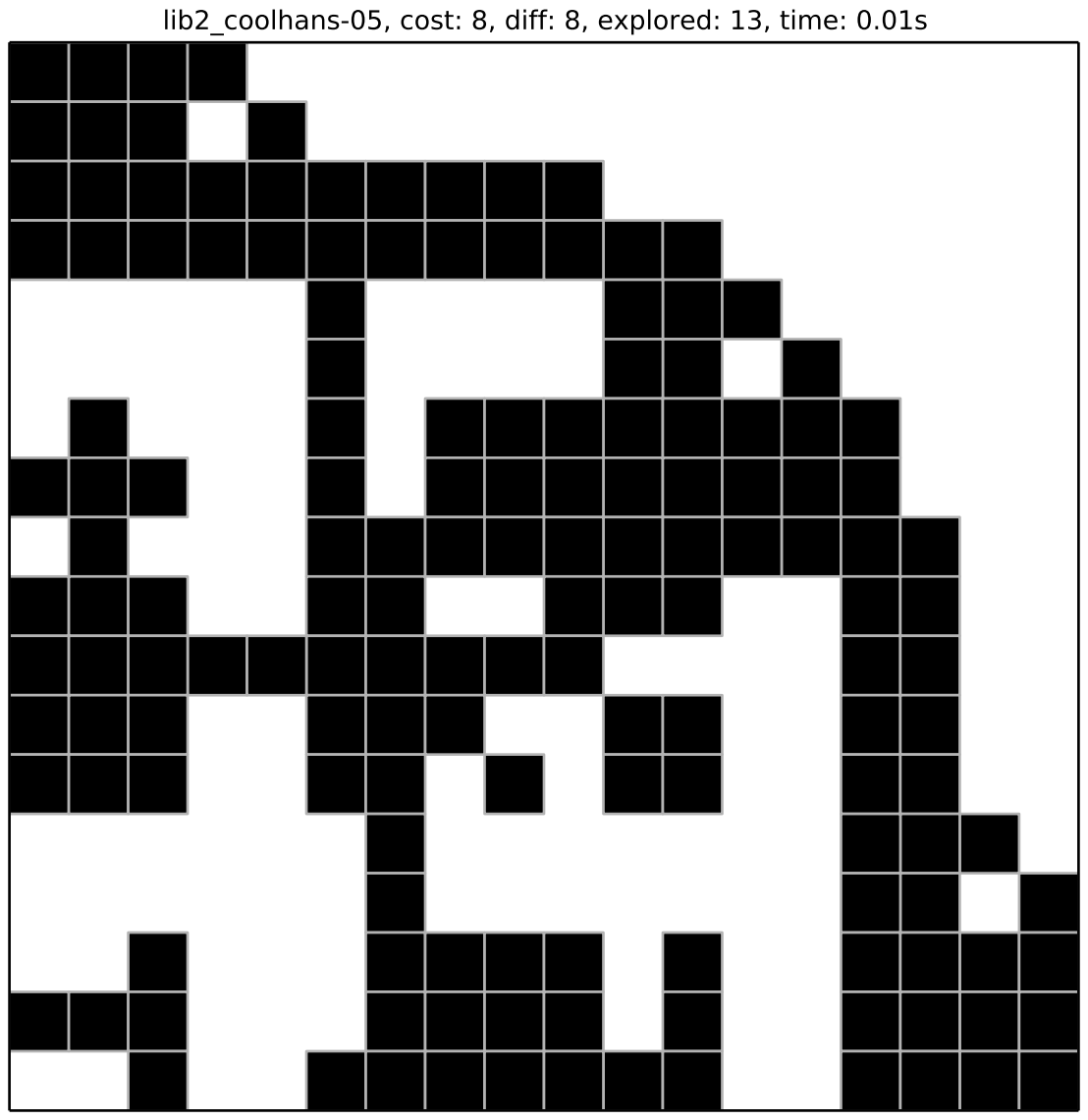
lib2_coolhans-05 18x18 (156) con: 9, var: 9

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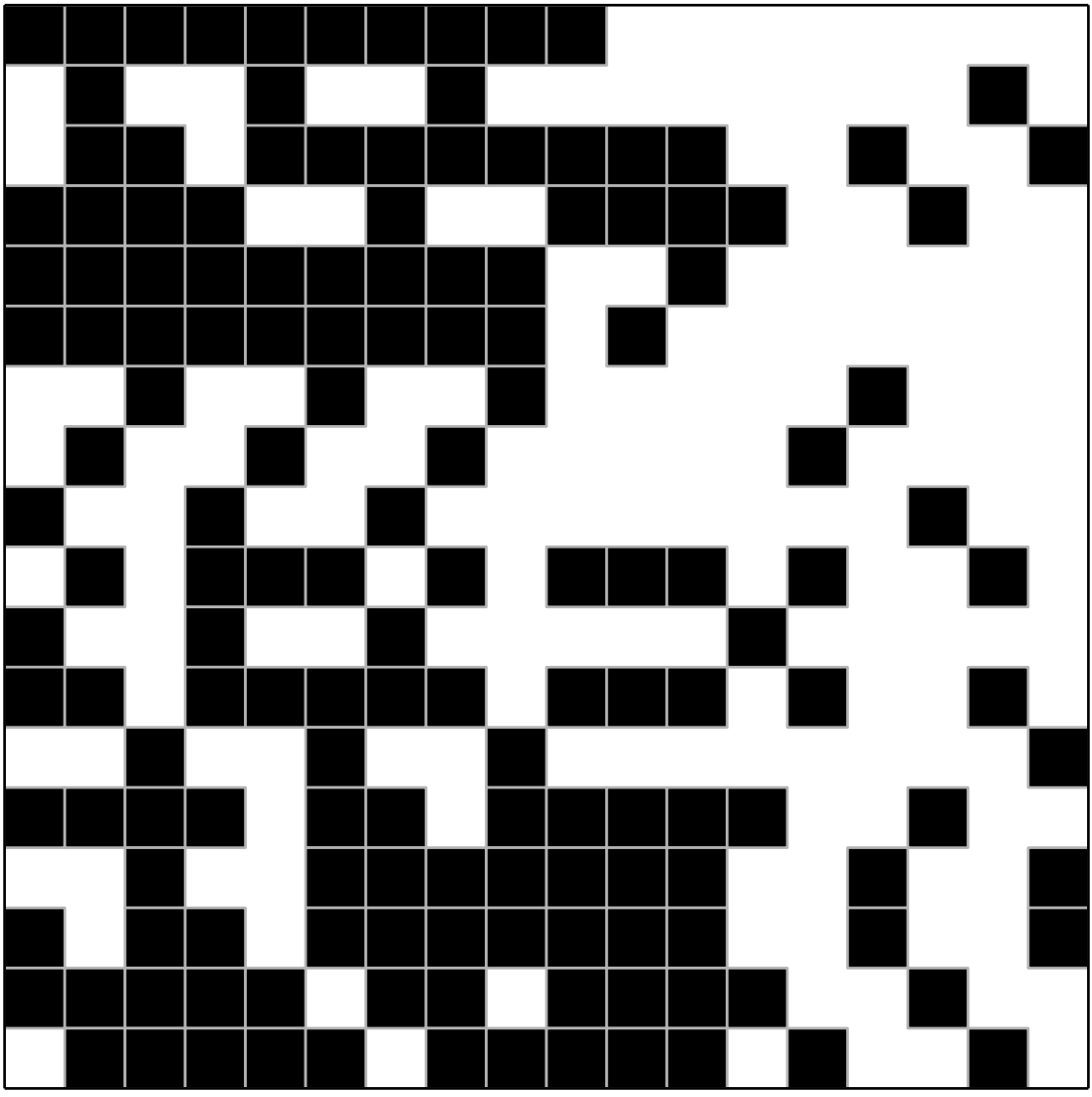
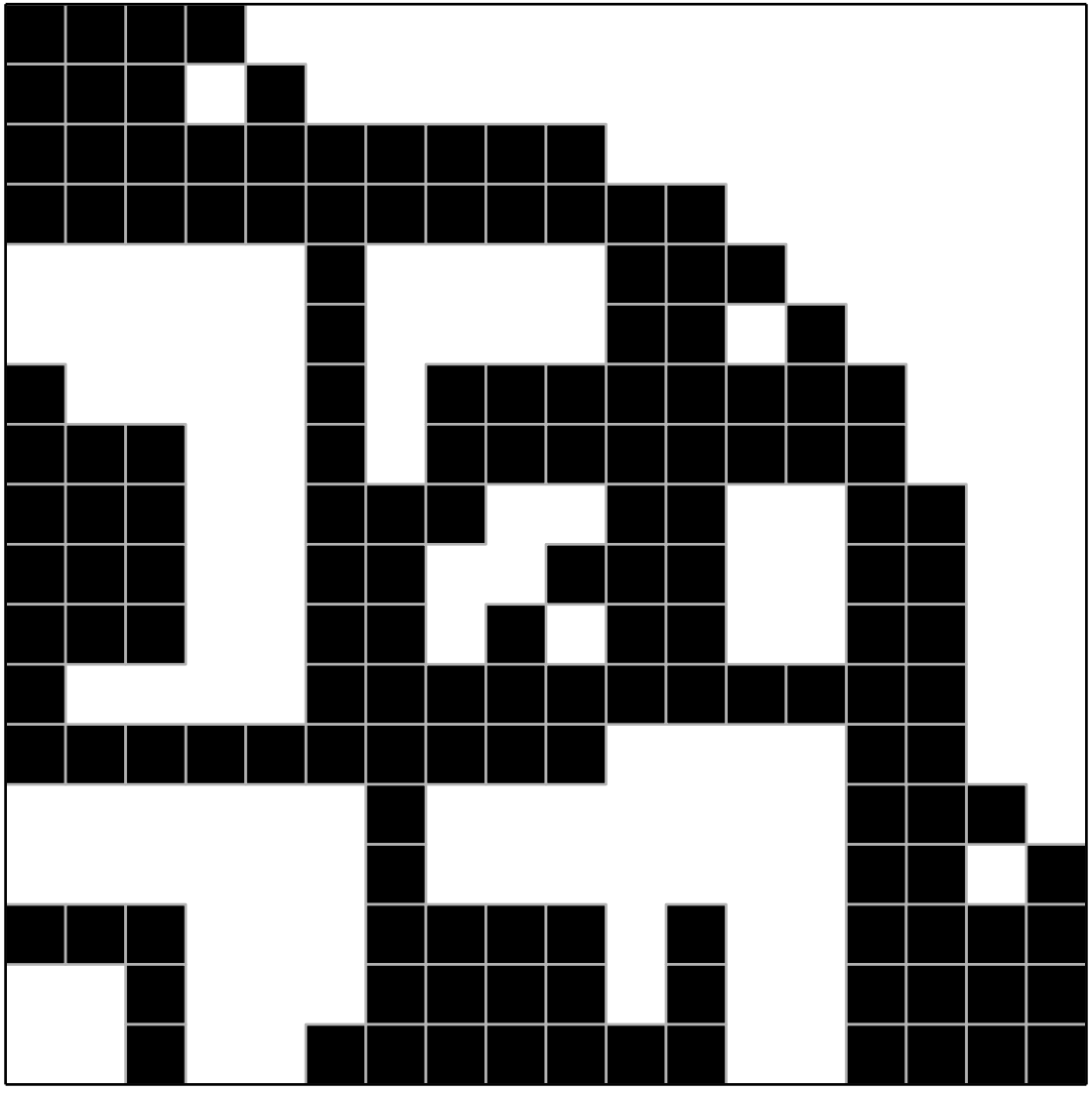
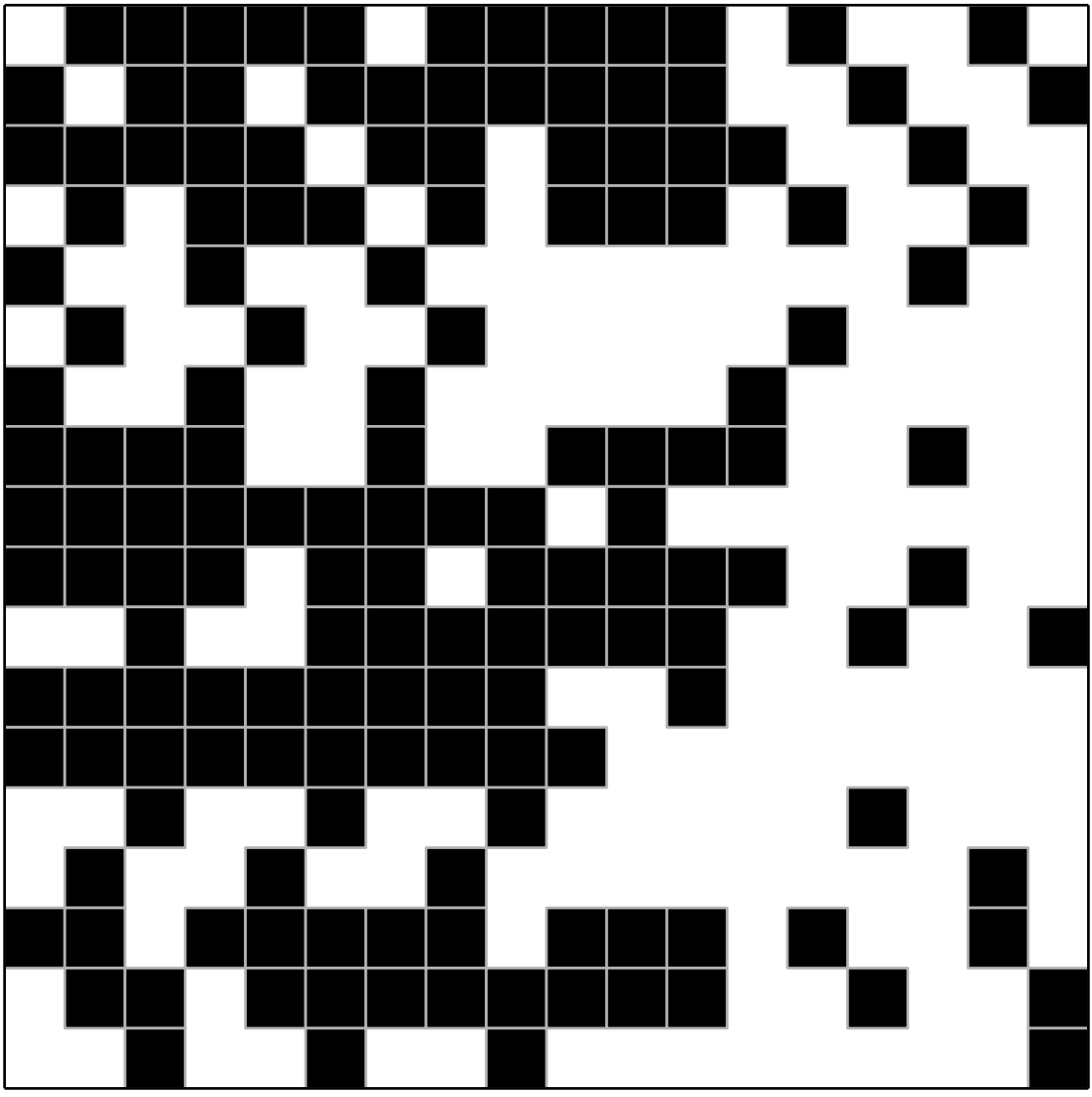
lib2_coolhans-06 18x18 (156) con: 9, var: 9



lib2_coolhans-06, cost: 8, diff: 8, explored: 13, time: 0.00s



lib2_coolhans-07 18x18 (156) con: 9, var: 9



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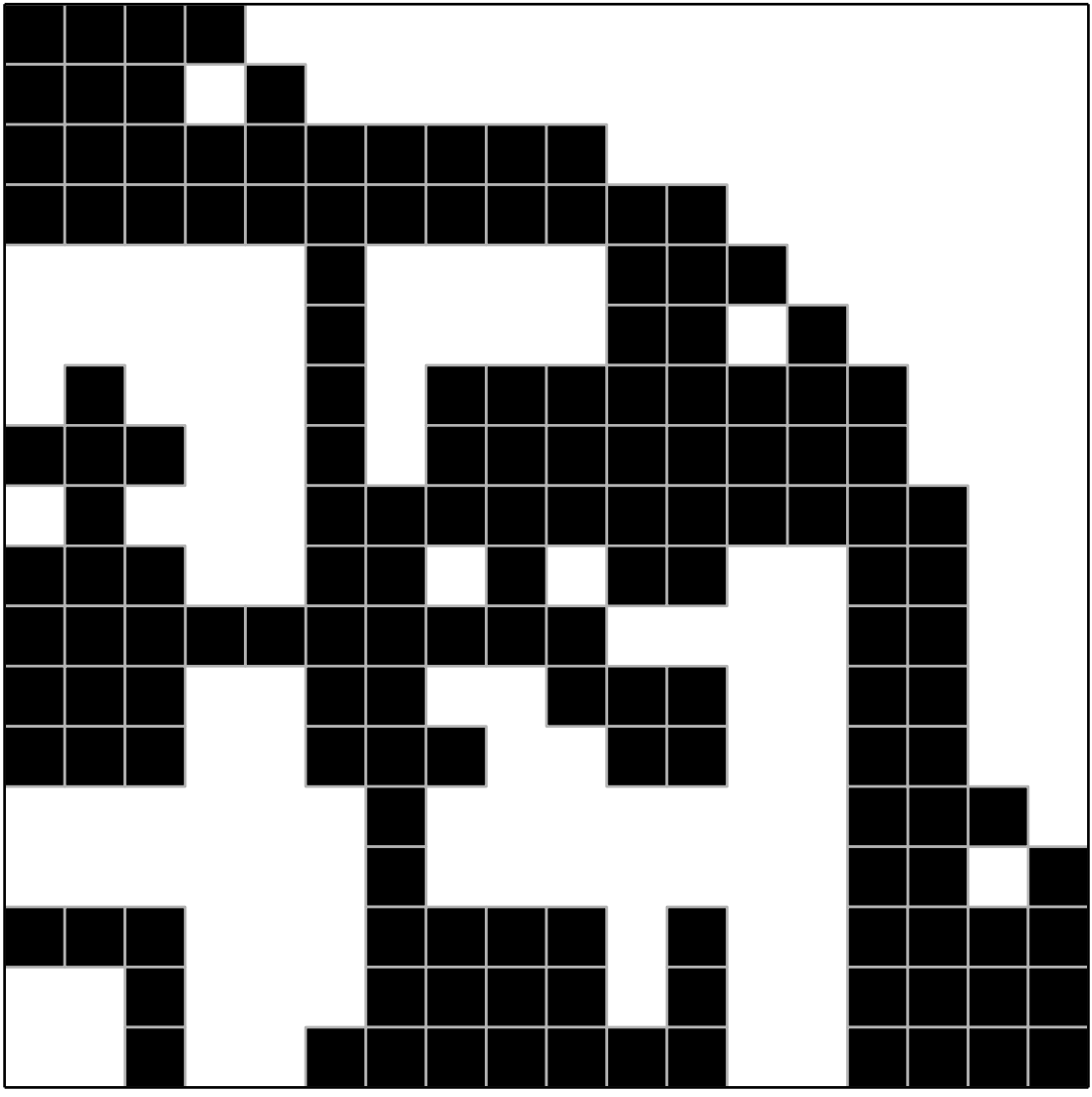
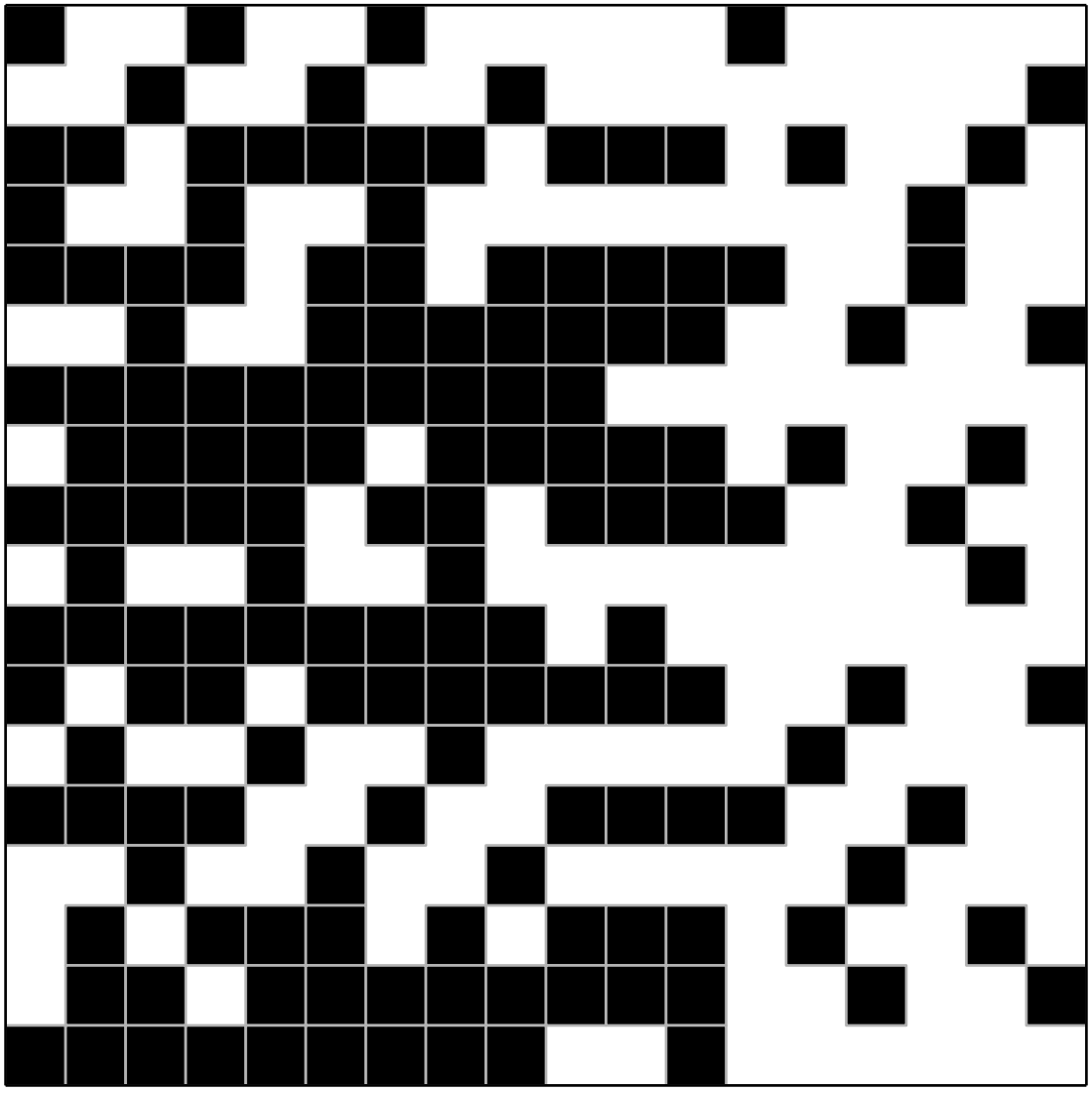


lib2_coolhans-08 18x18 (156) con: 9, var: 9



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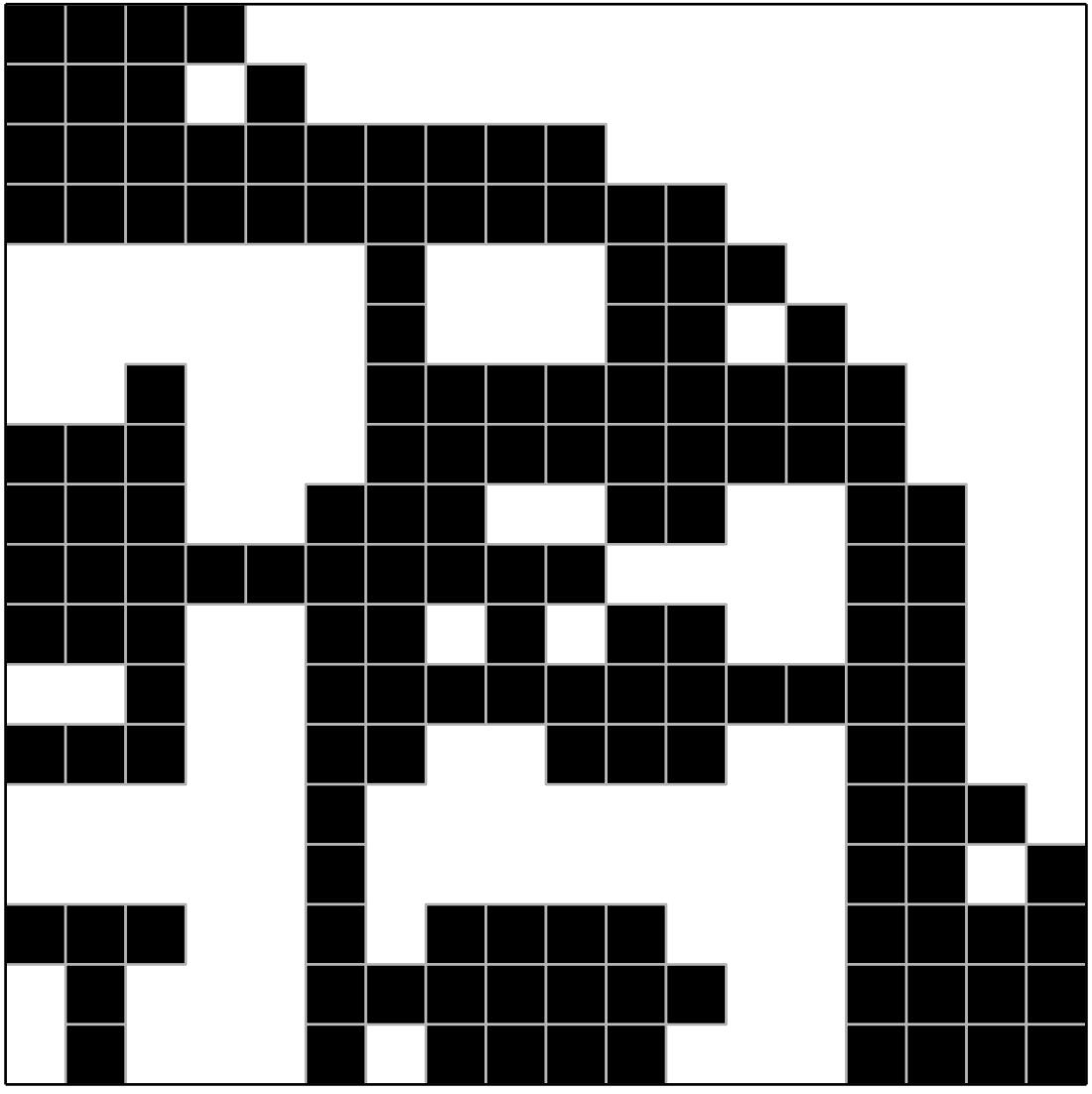
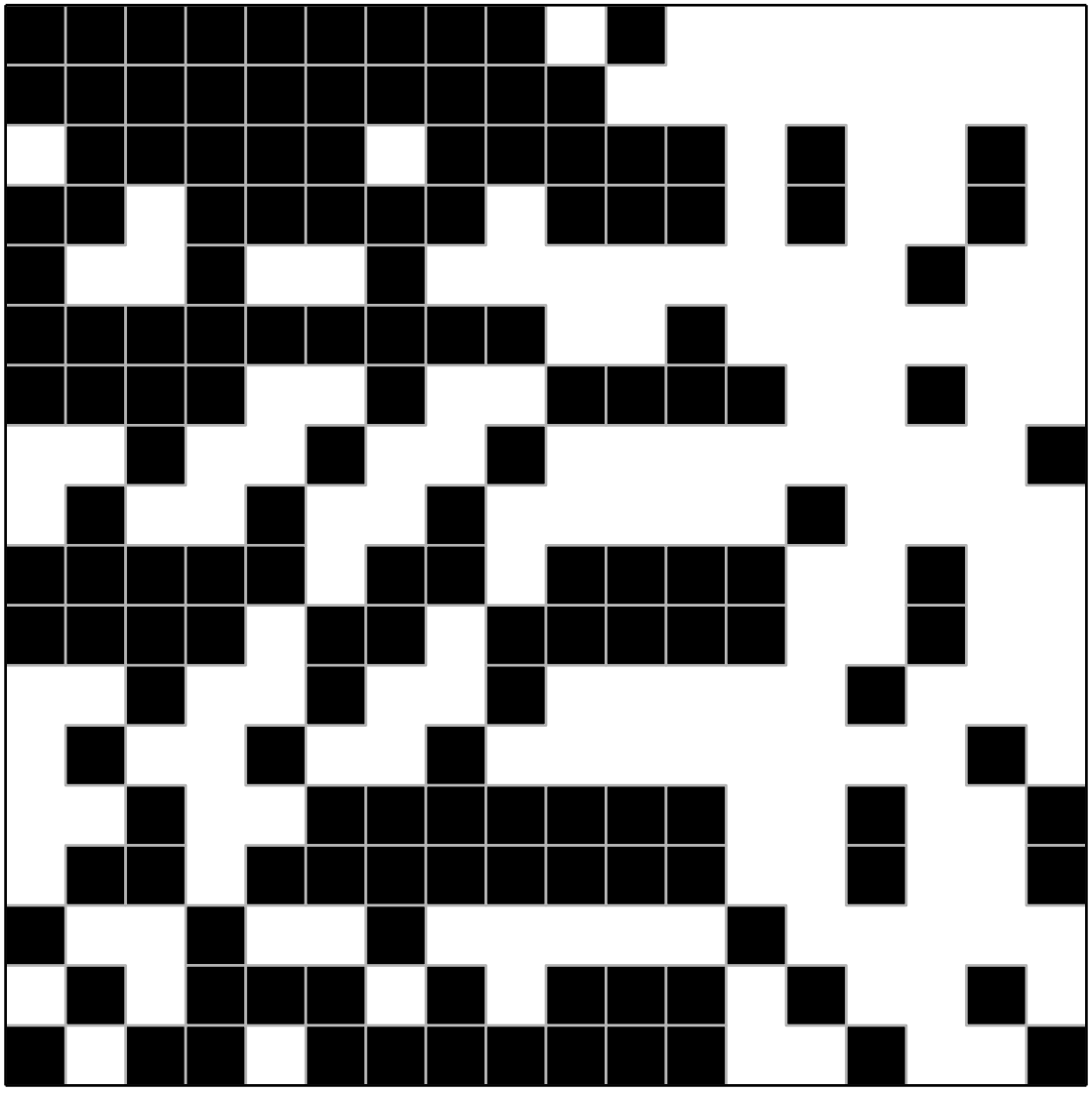
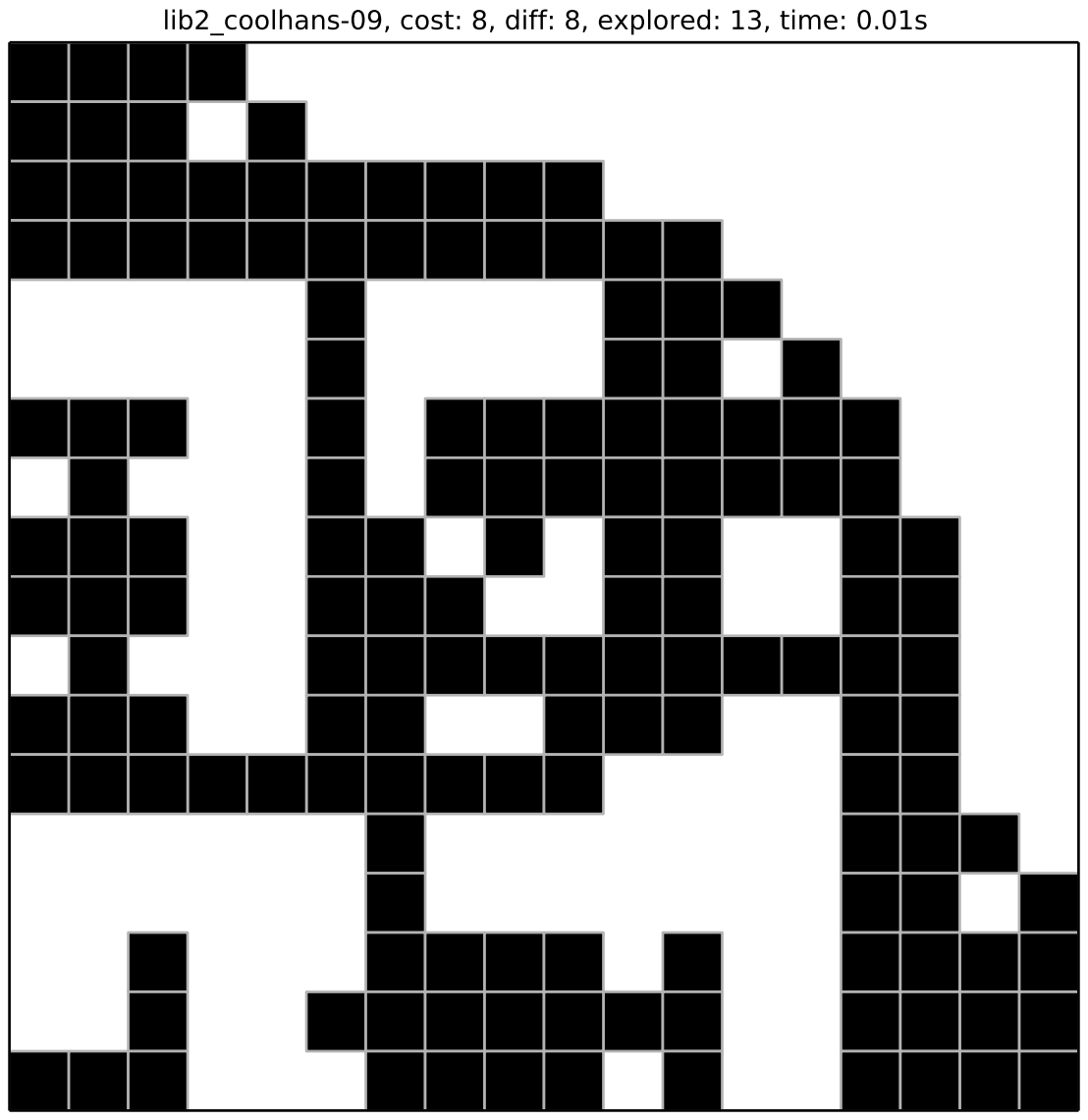


lib2_coolhans-09 18x18 (156) con: 9, var: 9

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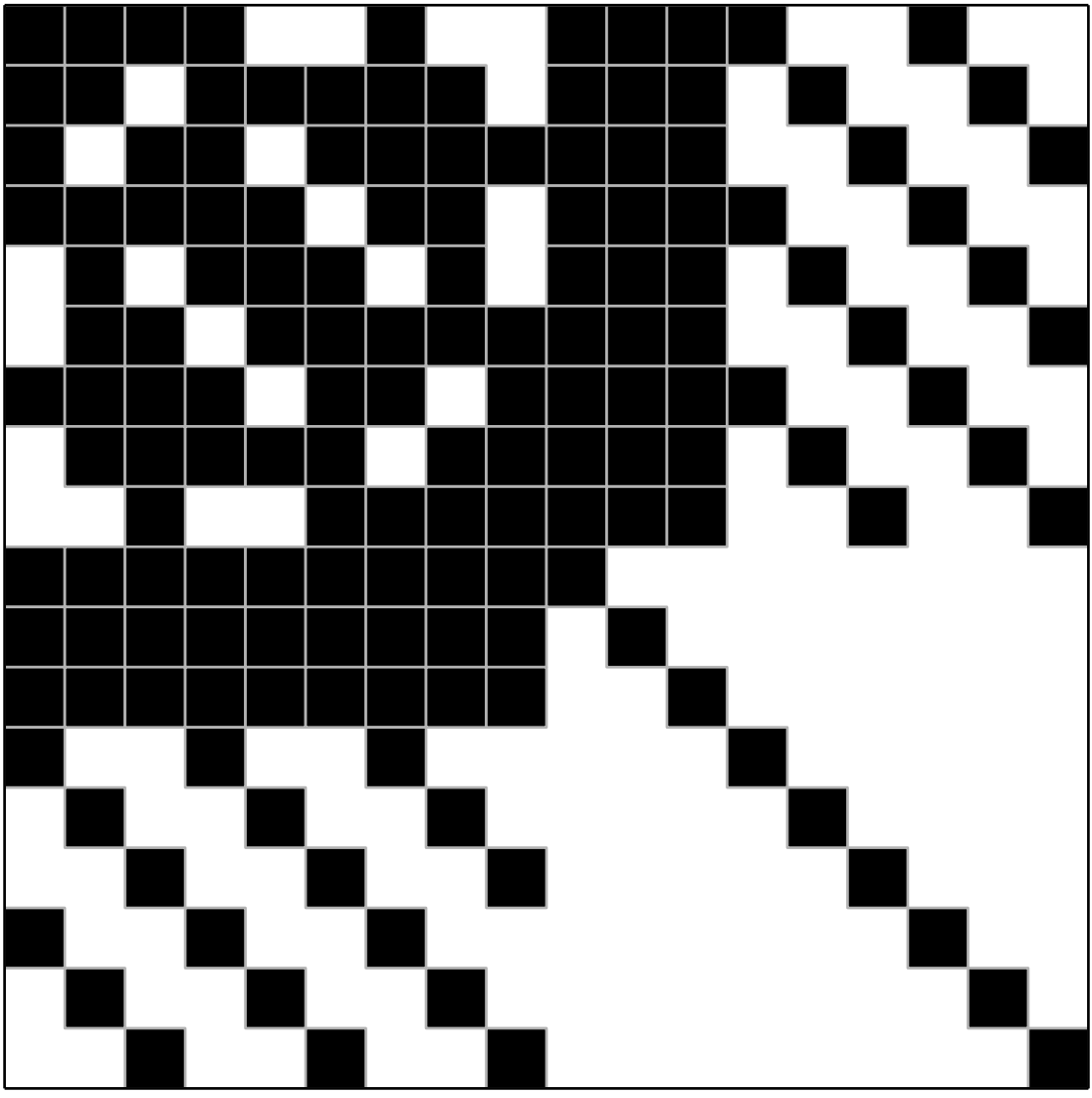
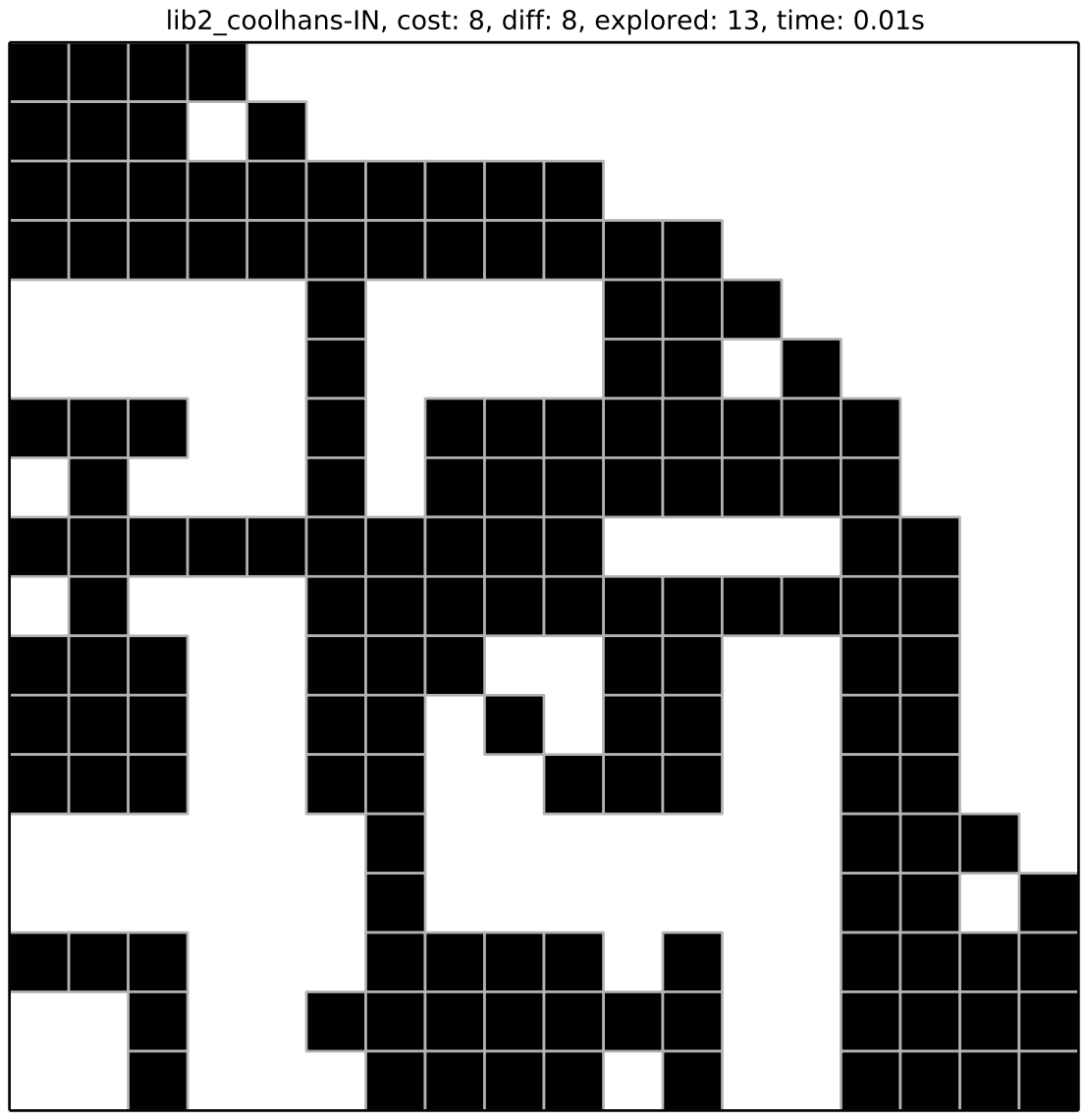
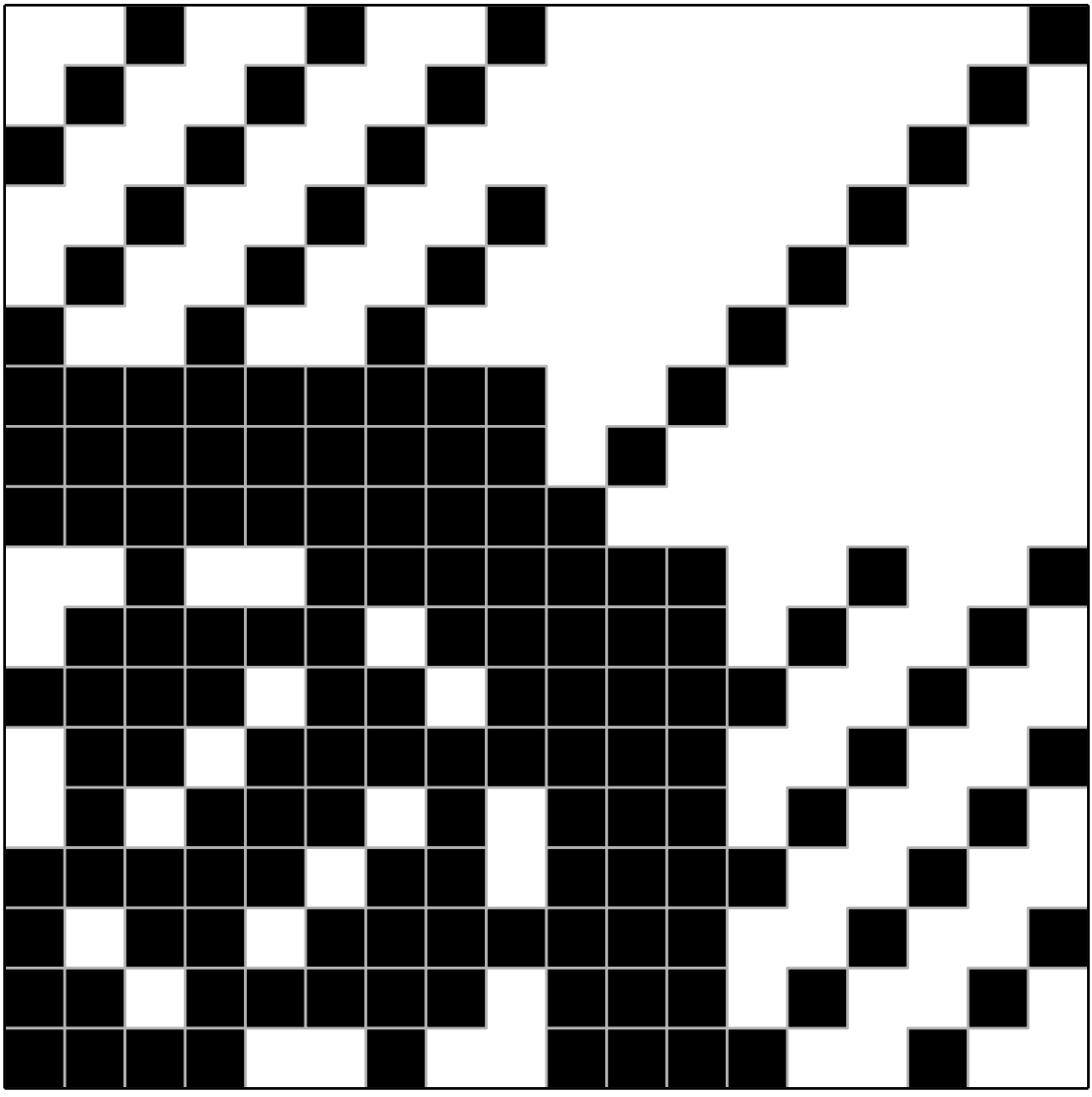
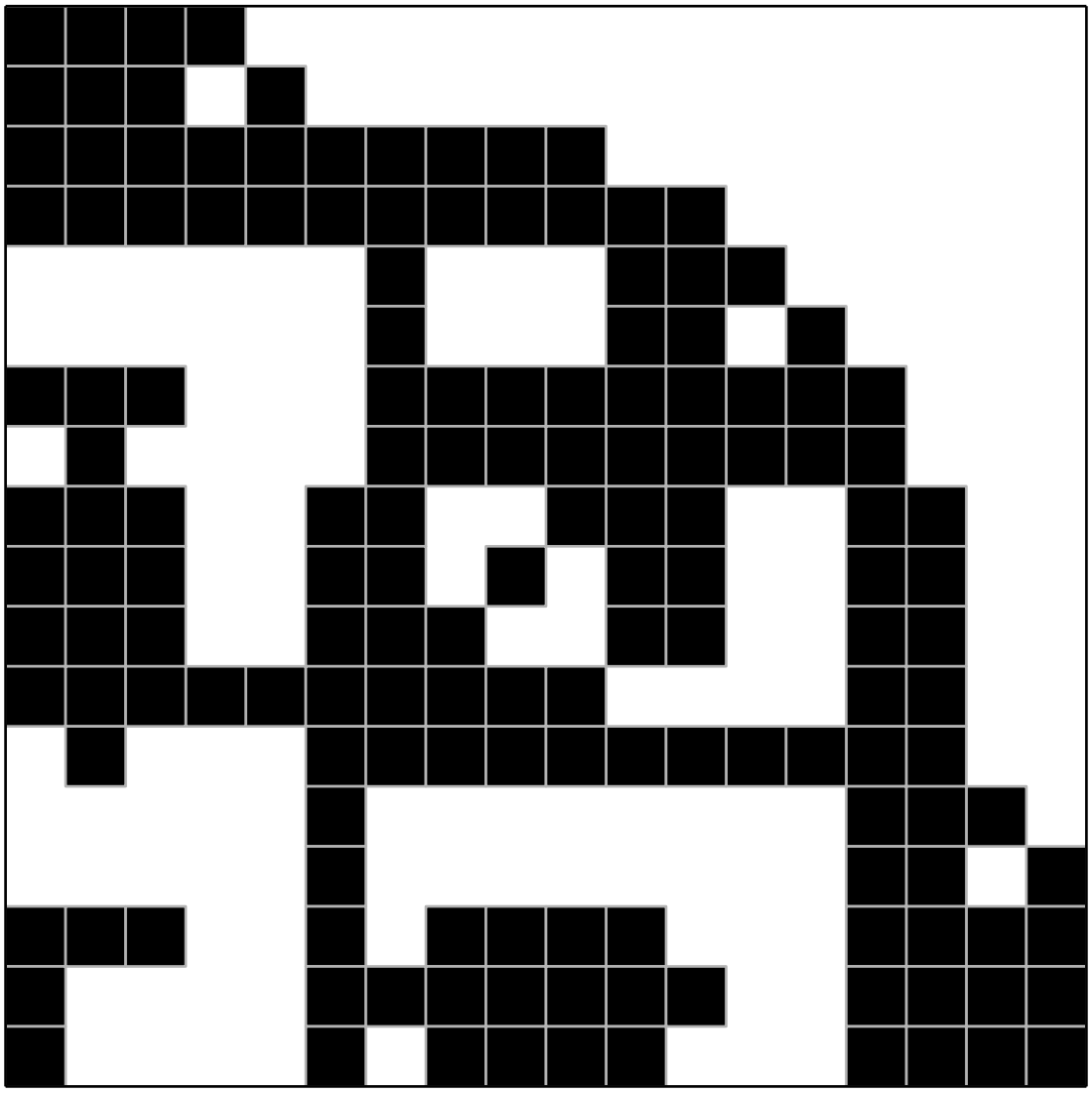

lib2_coolhans-IN 18x18 (156) con: 9, var: 9


lib2_coolhans-IN, cost: 8, diff: 8, explored: 13, time: 0.01s

lib2_coolhans-RE 18x18 (156) con: 9, var: 9

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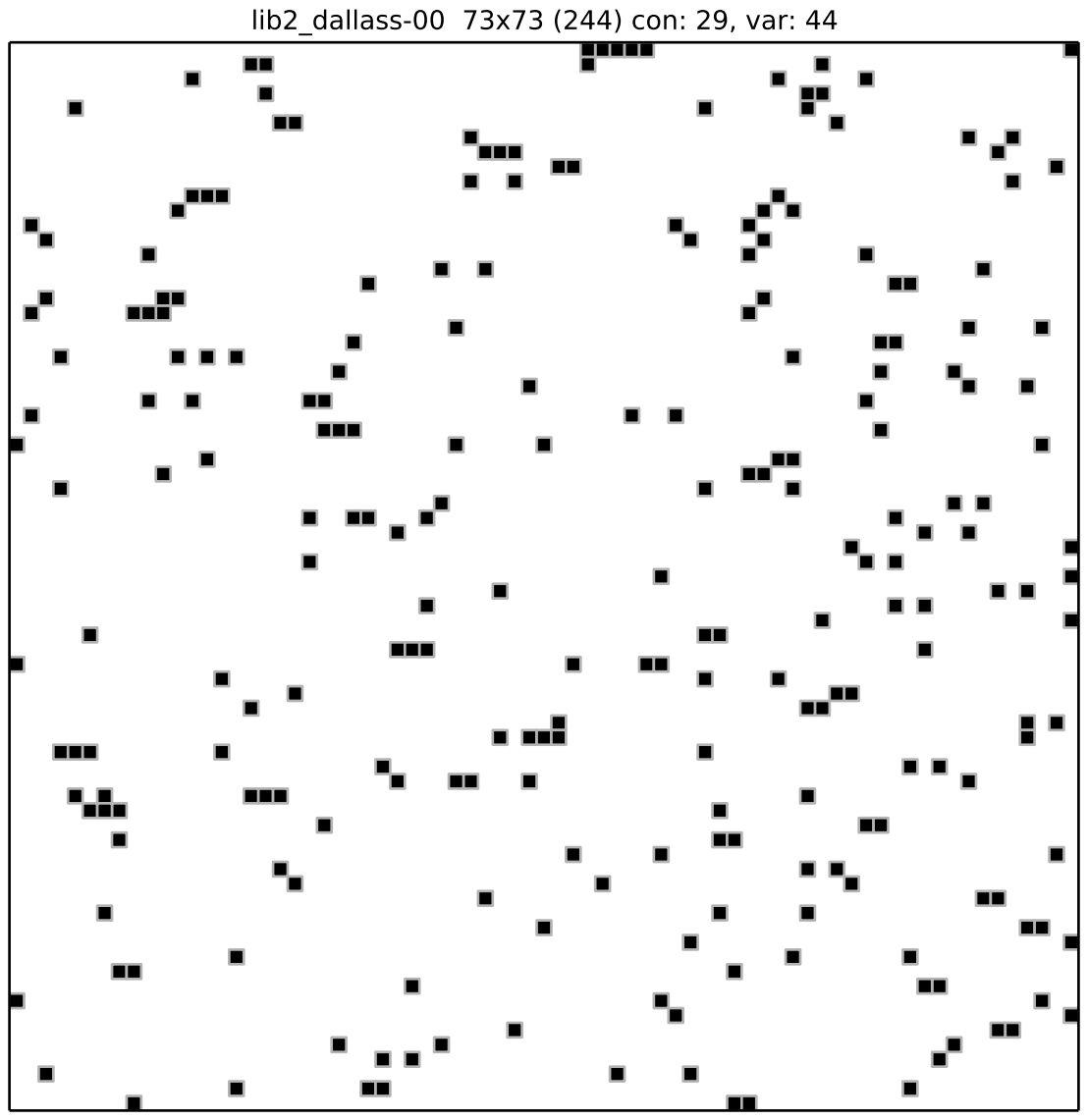
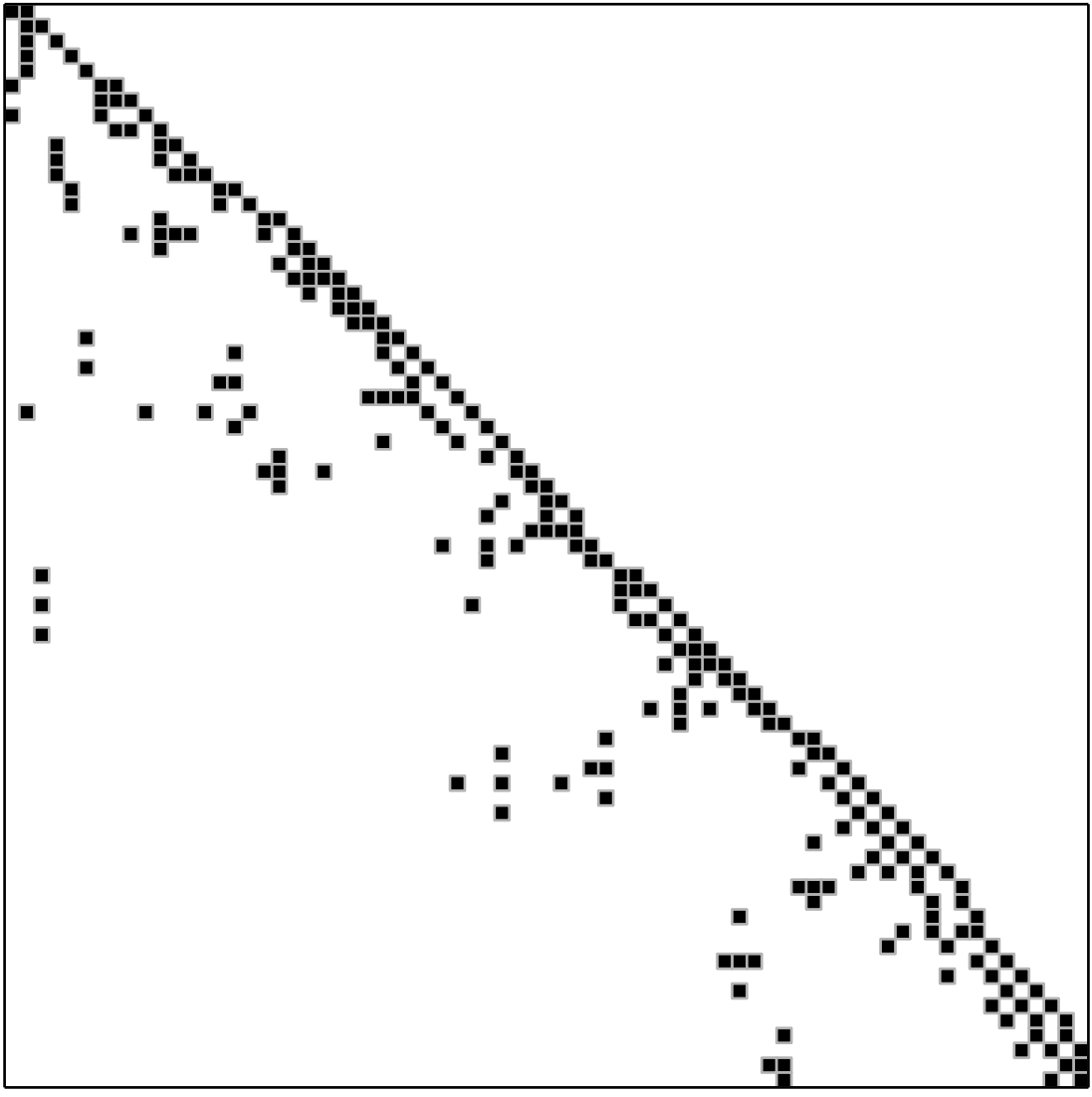
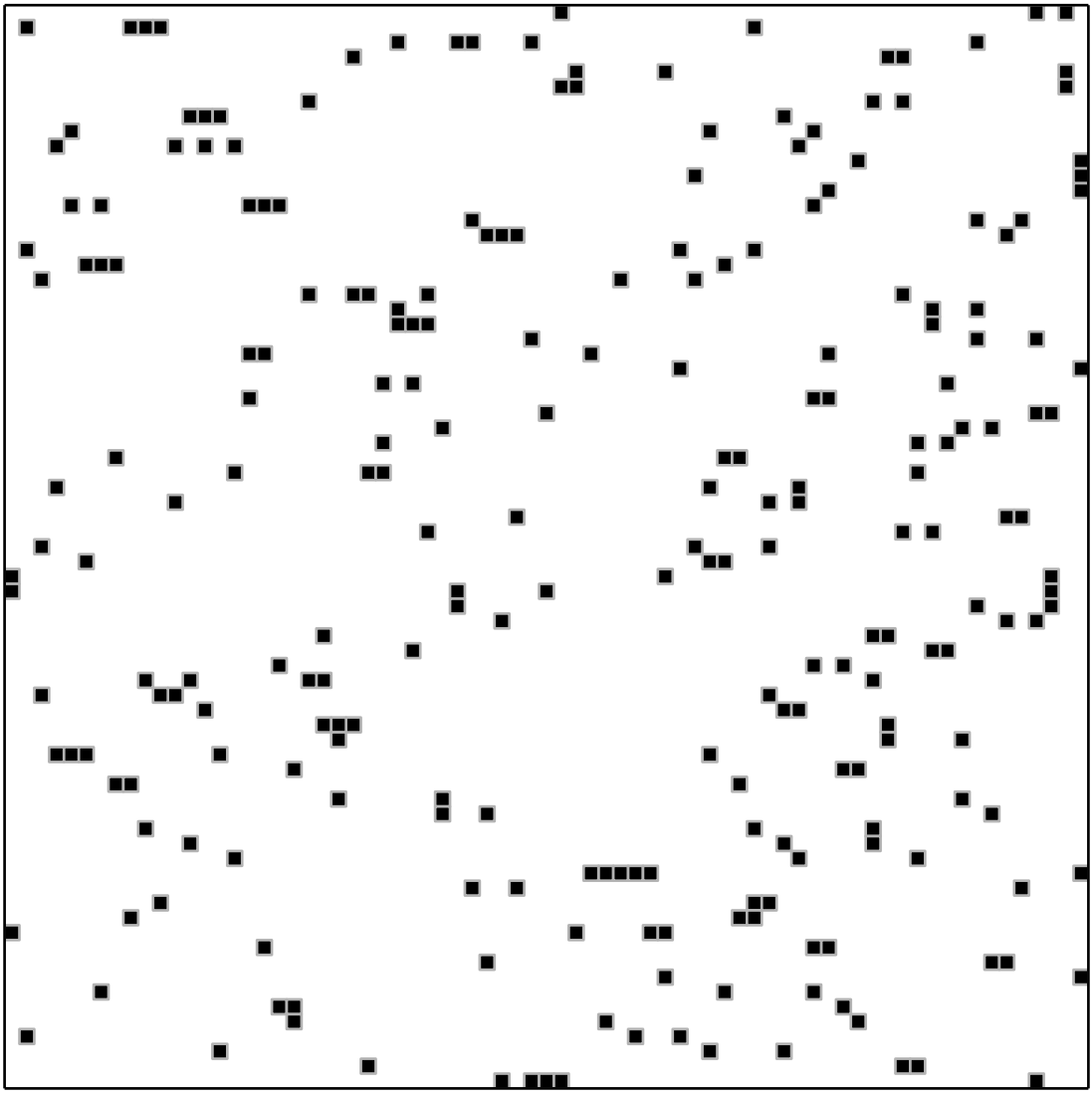
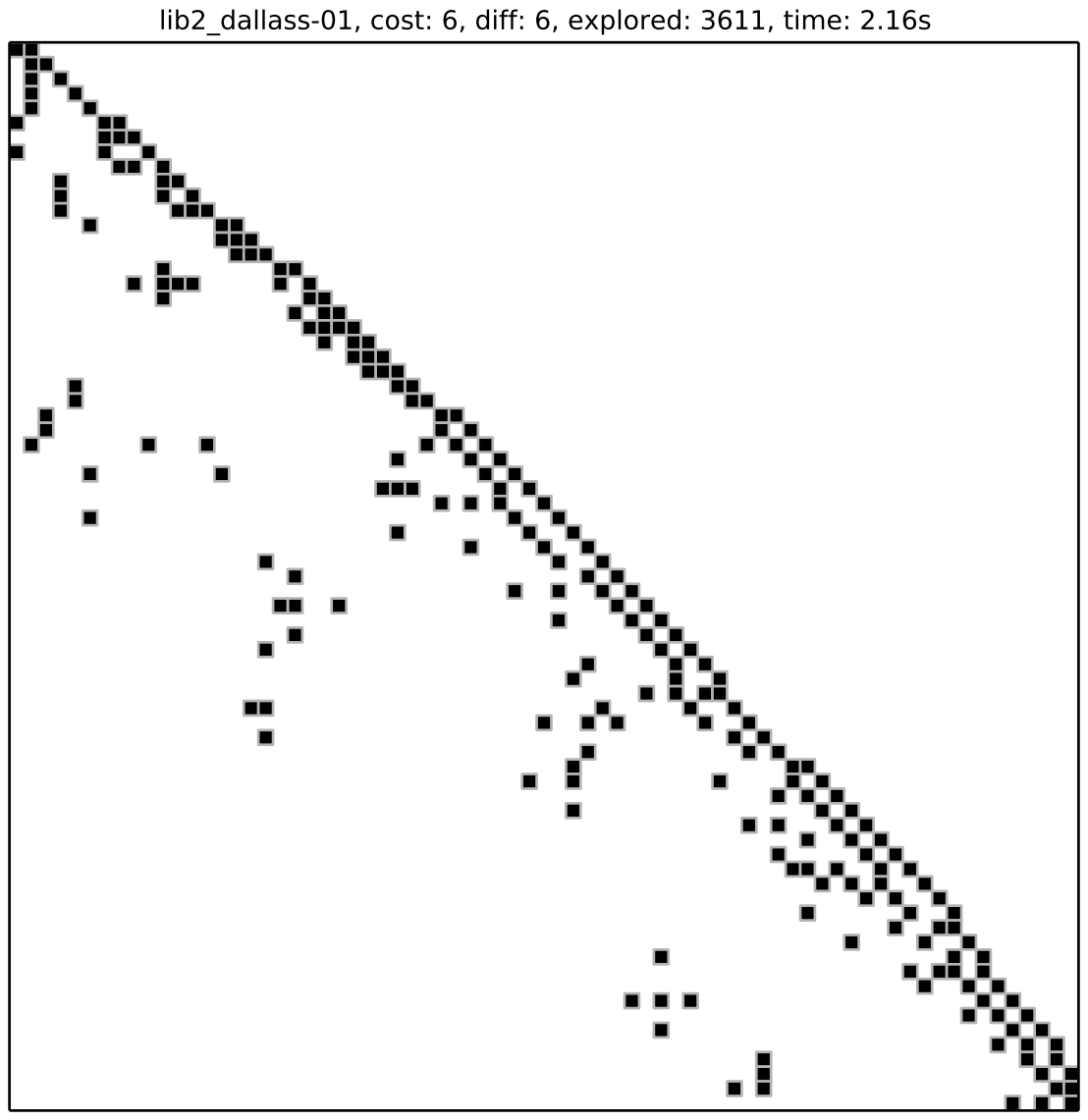

lib2_dallass-00 73x73 (244) con: 29, var: 44

lib2_dallass-00, cost: 6, diff: 6, explored: 3845, time: 2.24s

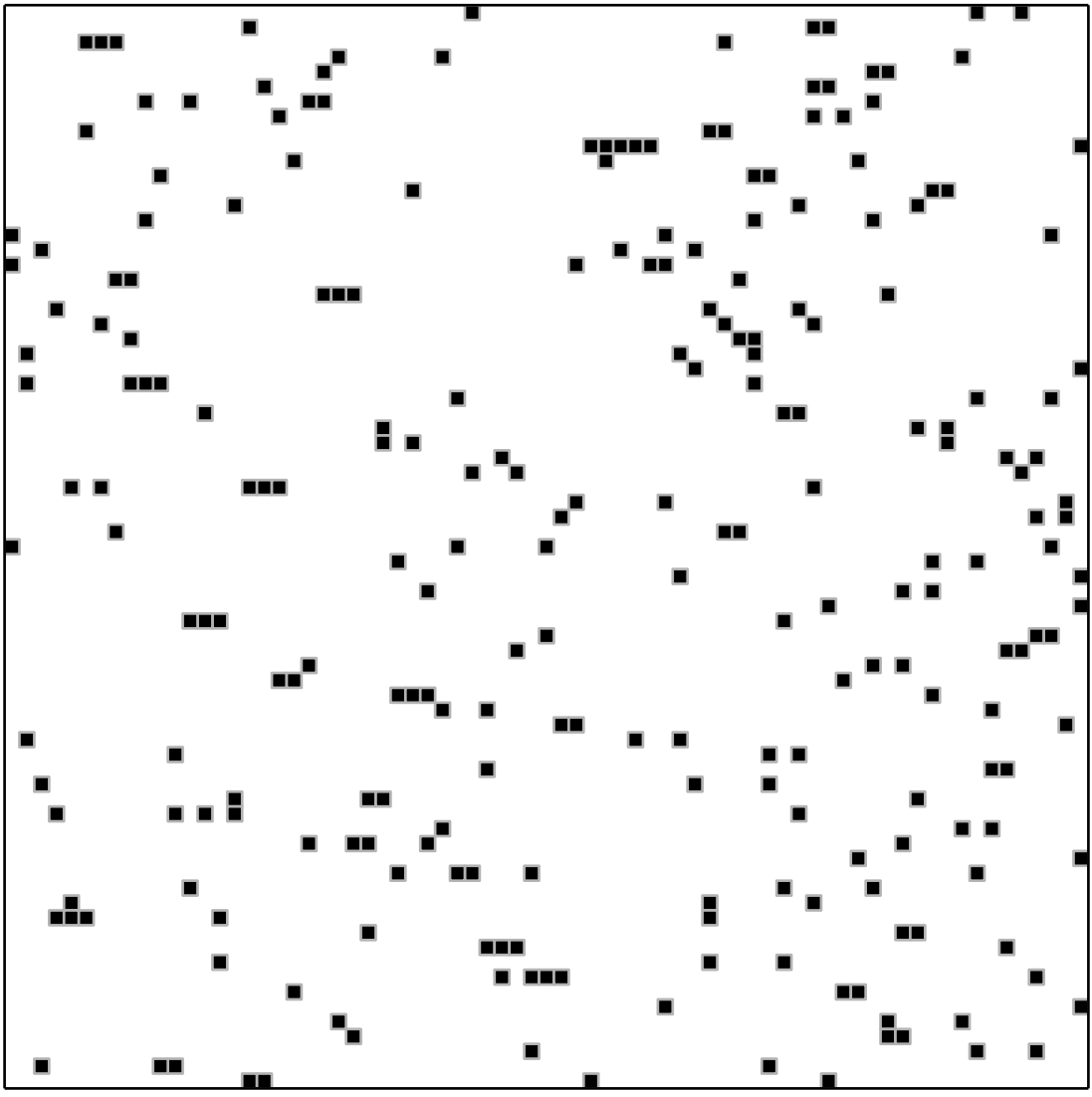


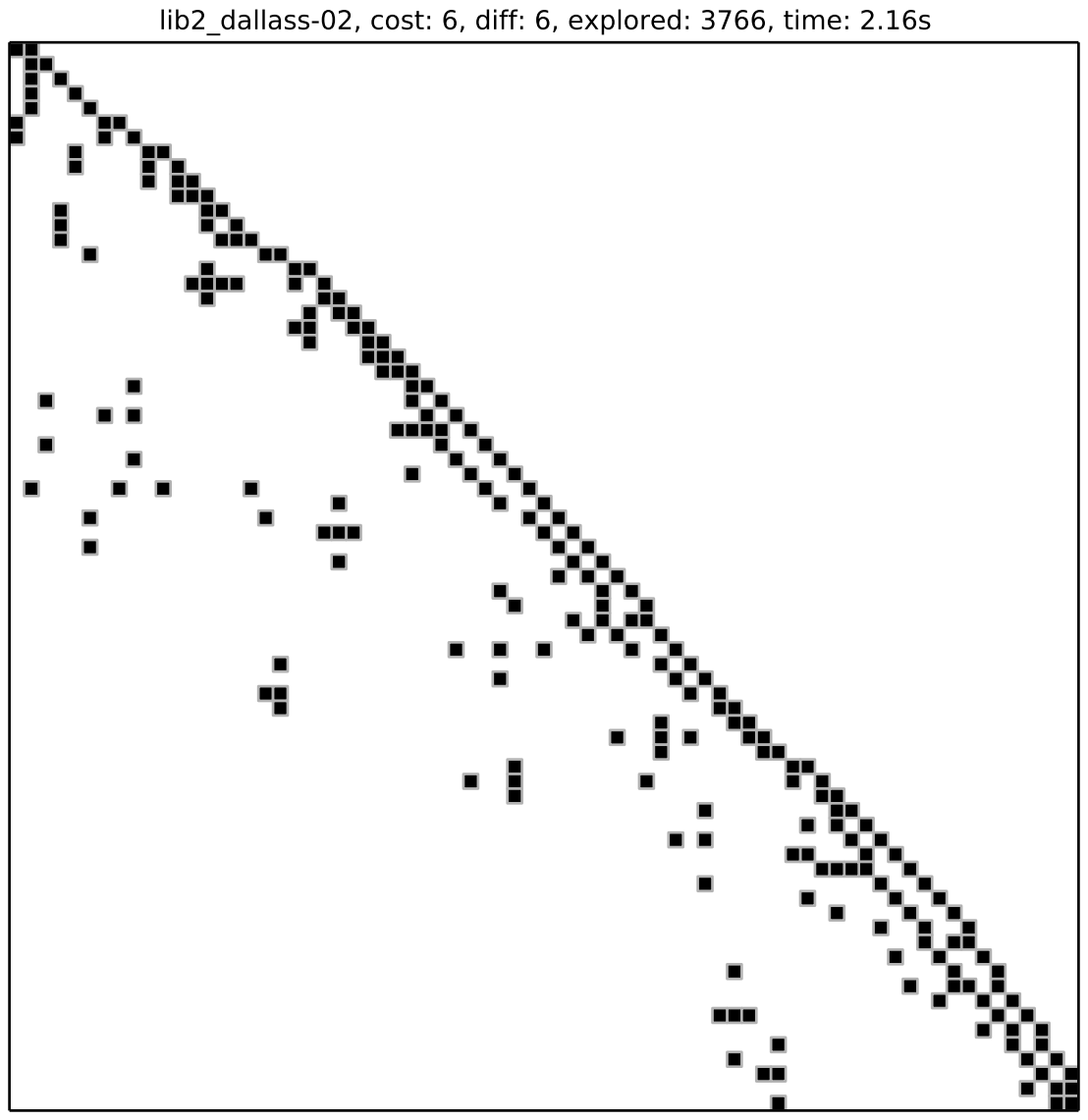
lib2_dallass-01 73x73 (244) con: 29, var: 44



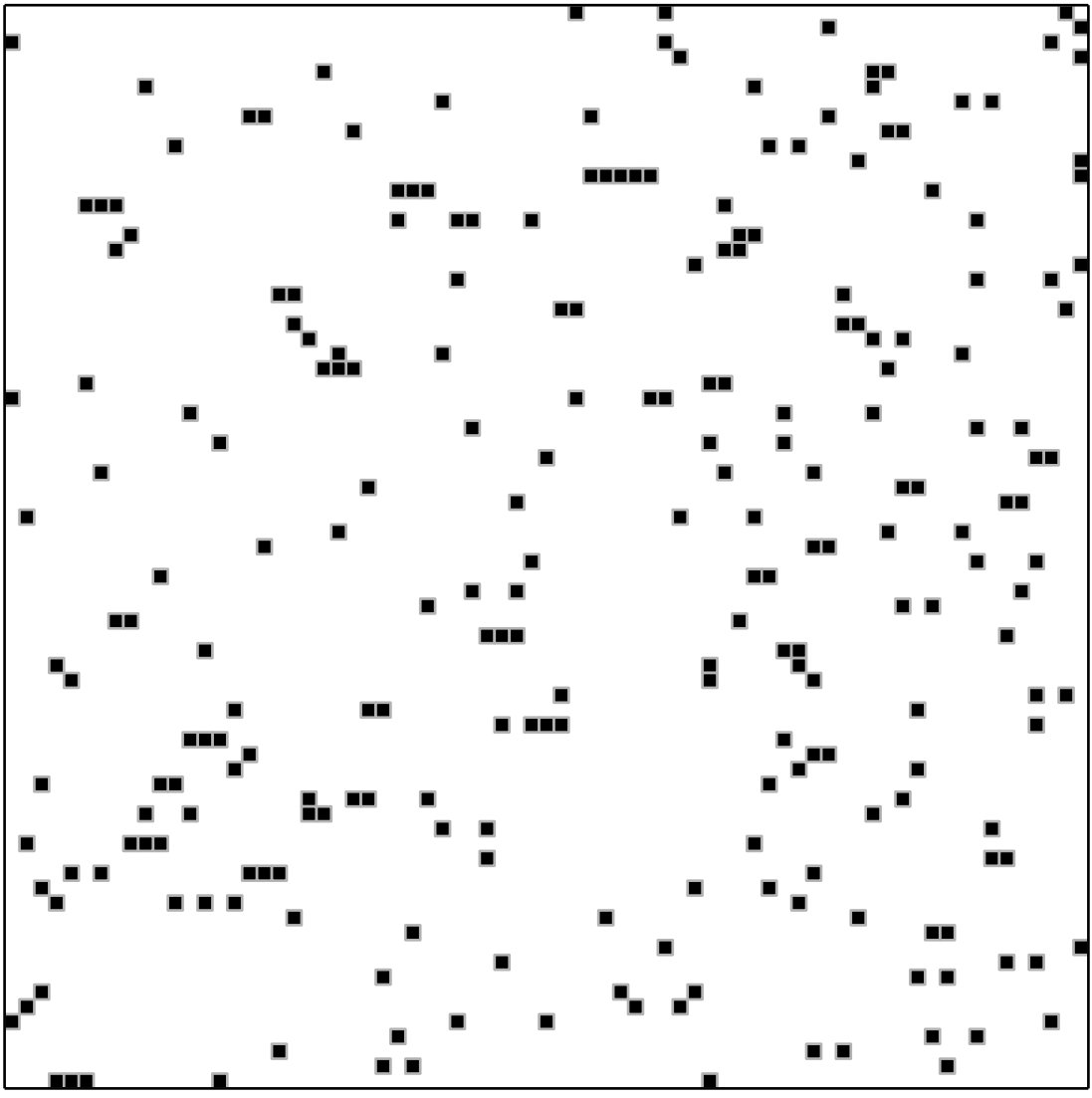

lib2_dallass-01, cost: 6, diff: 6, explored: 3611, time: 2.16s

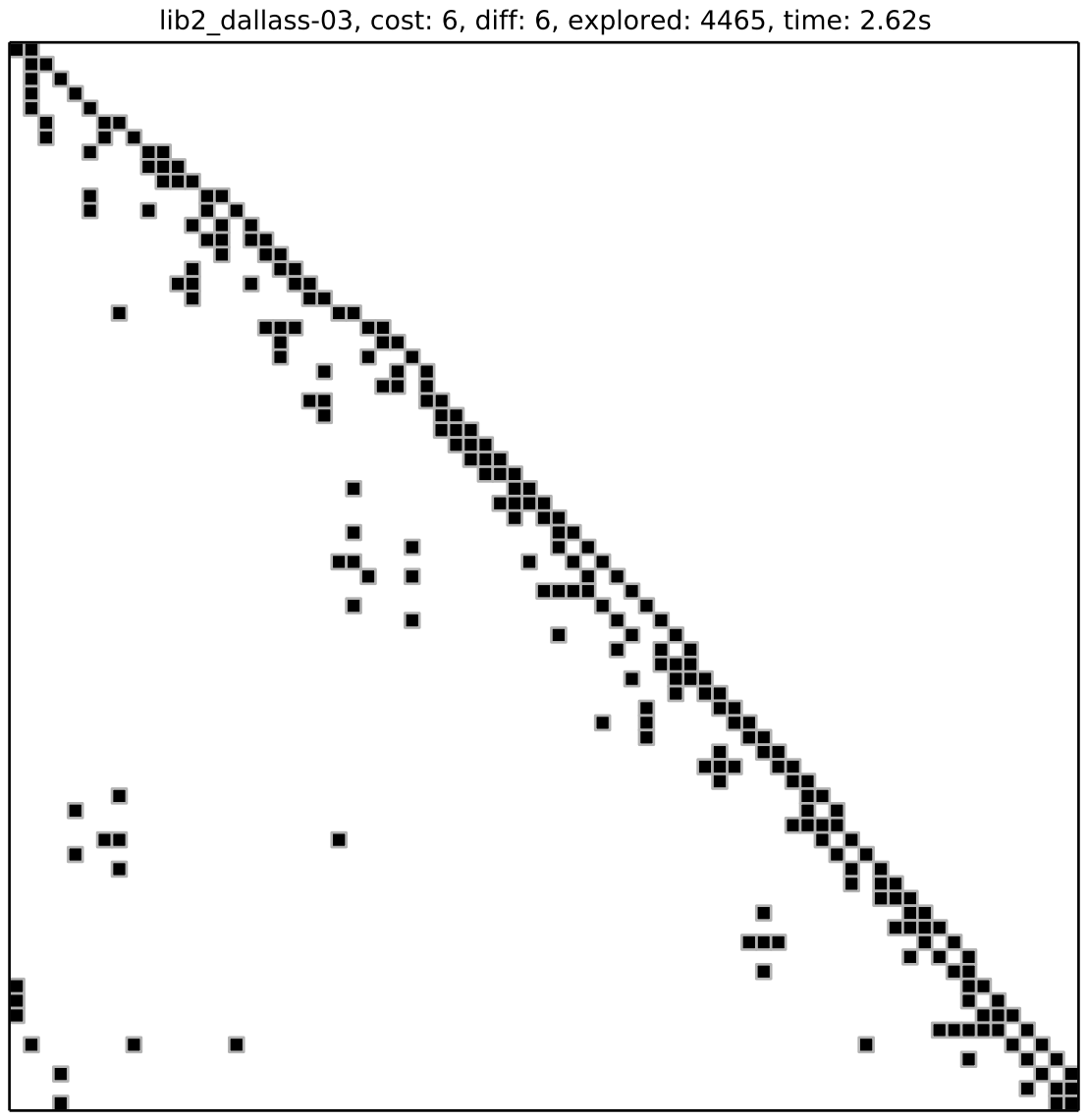
lib2_dallass-02 73x73 (244) con: 29, var: 44



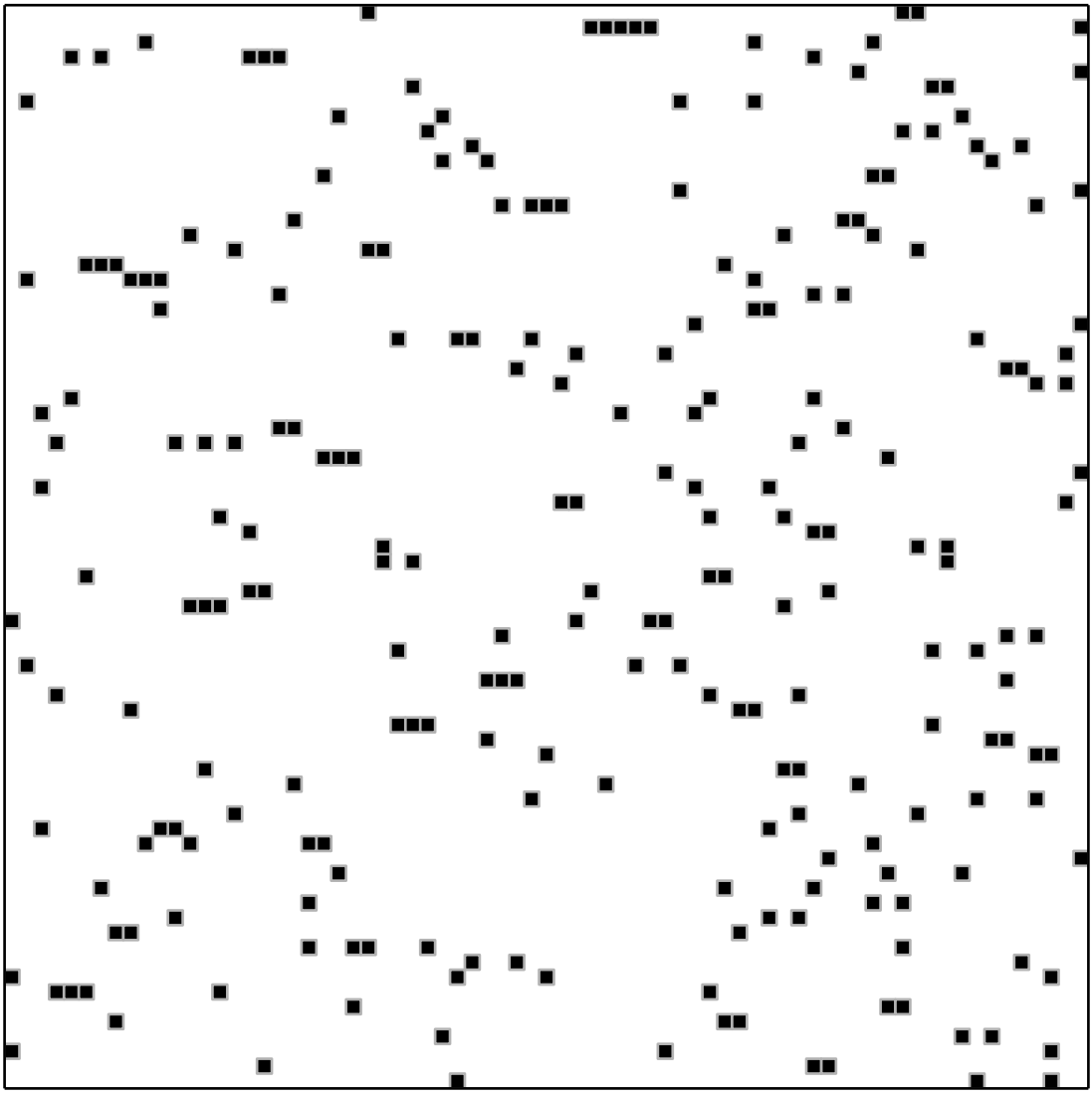

lib2_dallass-02, cost: 6, diff: 6, explored: 3766, time: 2.16s

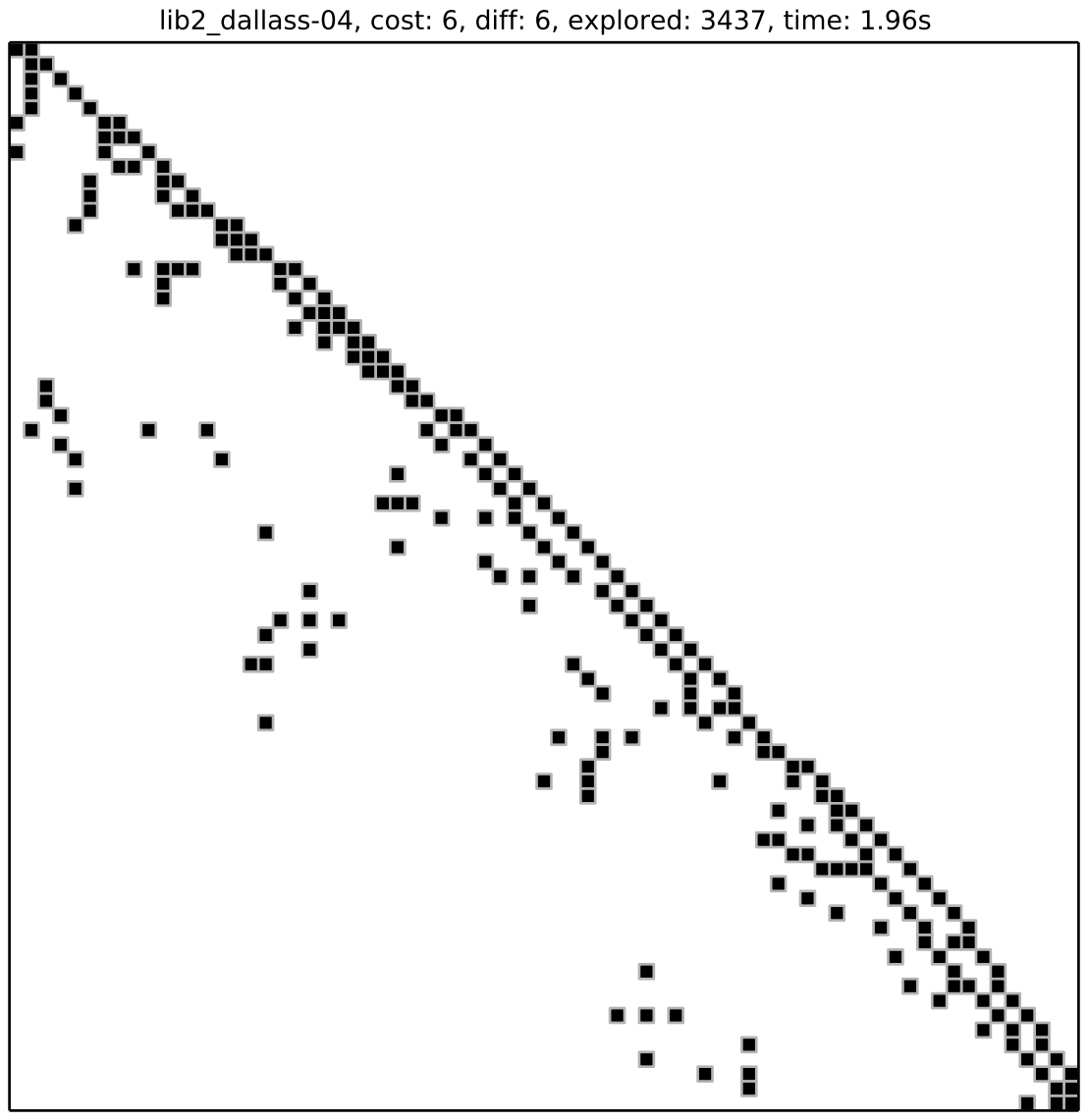
lib2_dallass-03 73x73 (244) con: 29, var: 44



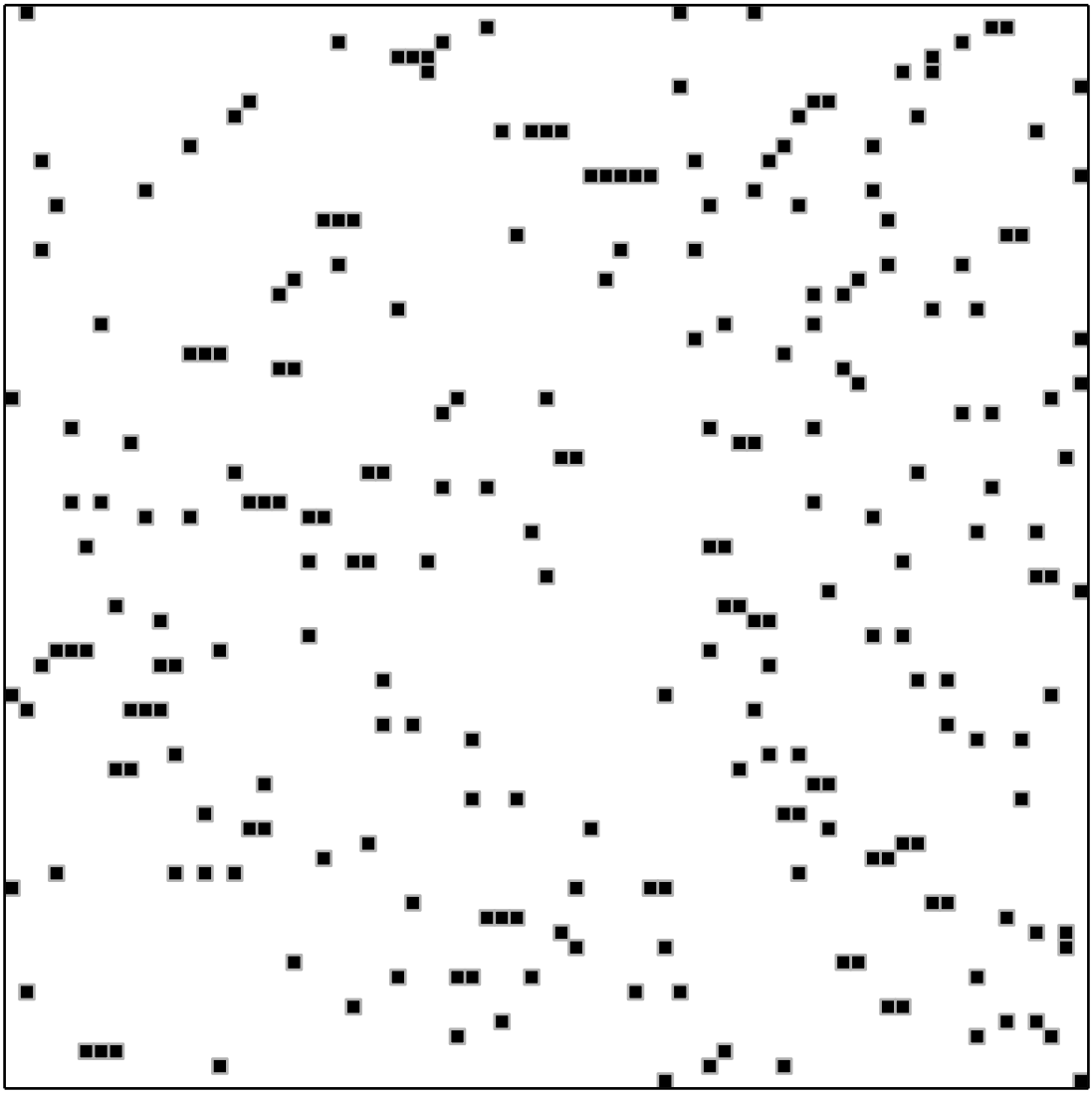

lib2_dallass-03, cost: 6, diff: 6, explored: 4465, time: 2.62s

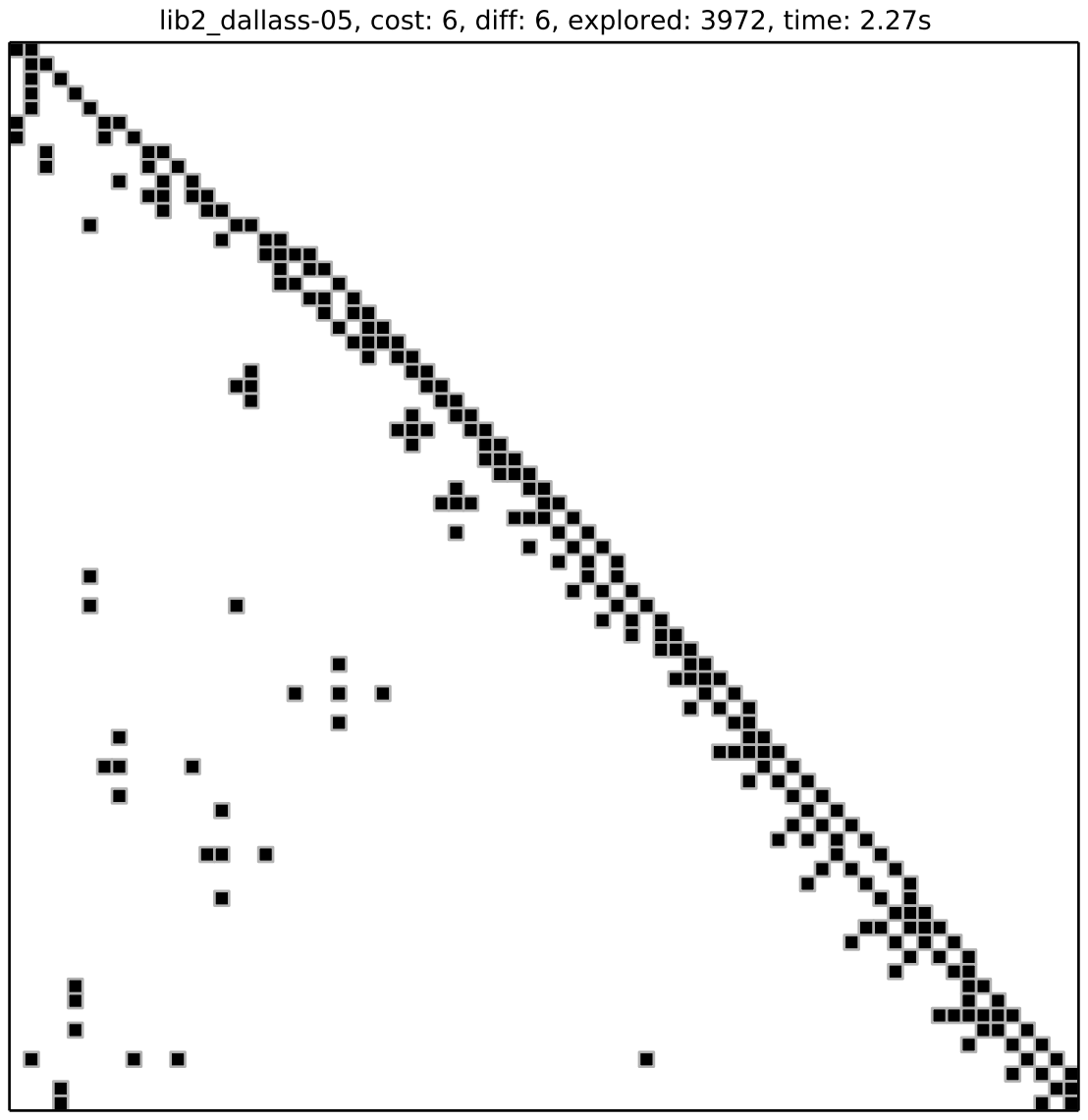
lib2_dallass-04 73x73 (244) con: 29, var: 44



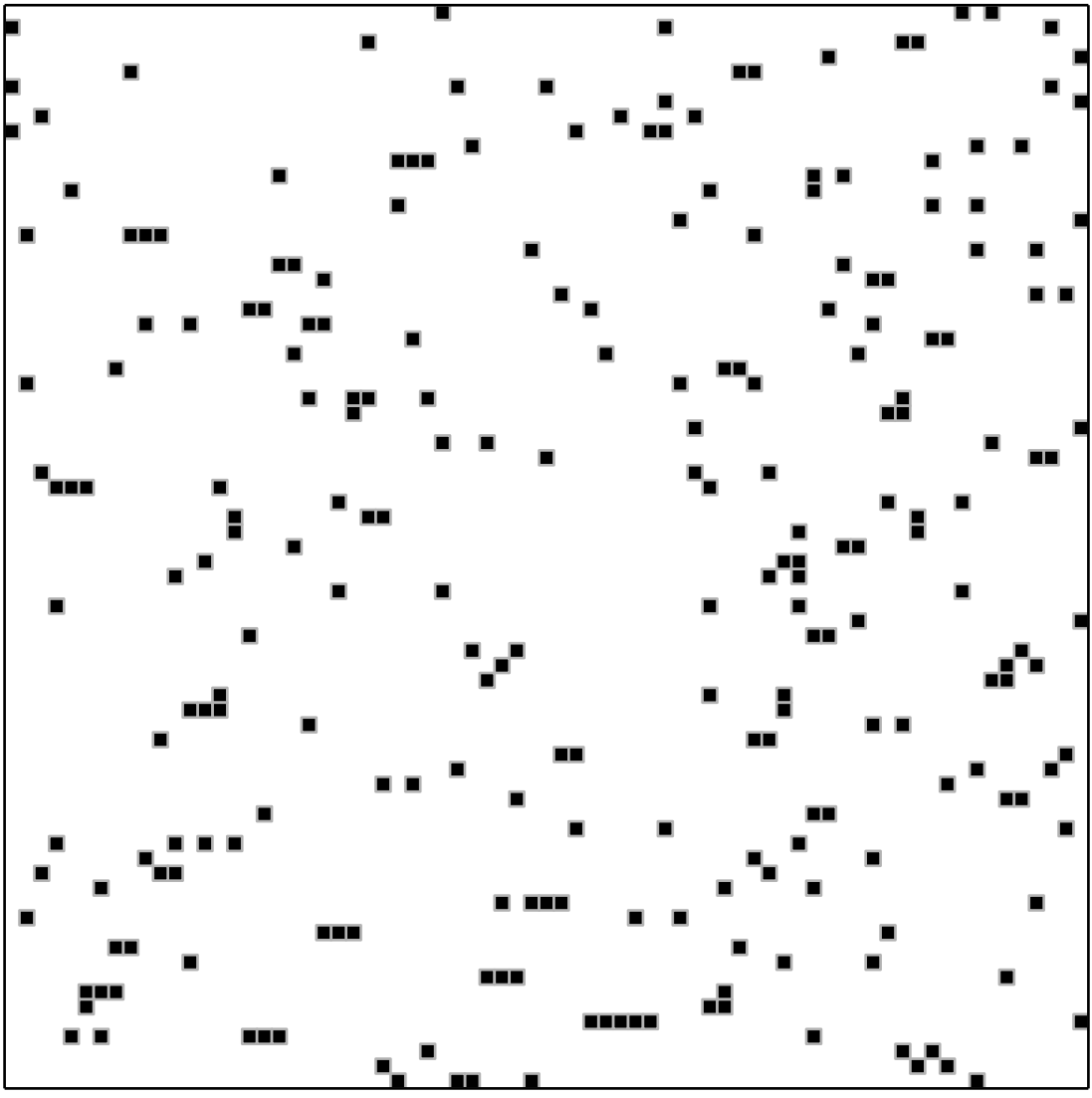

lib2_dallass-04, cost: 6, diff: 6, explored: 3437, time: 1.96s

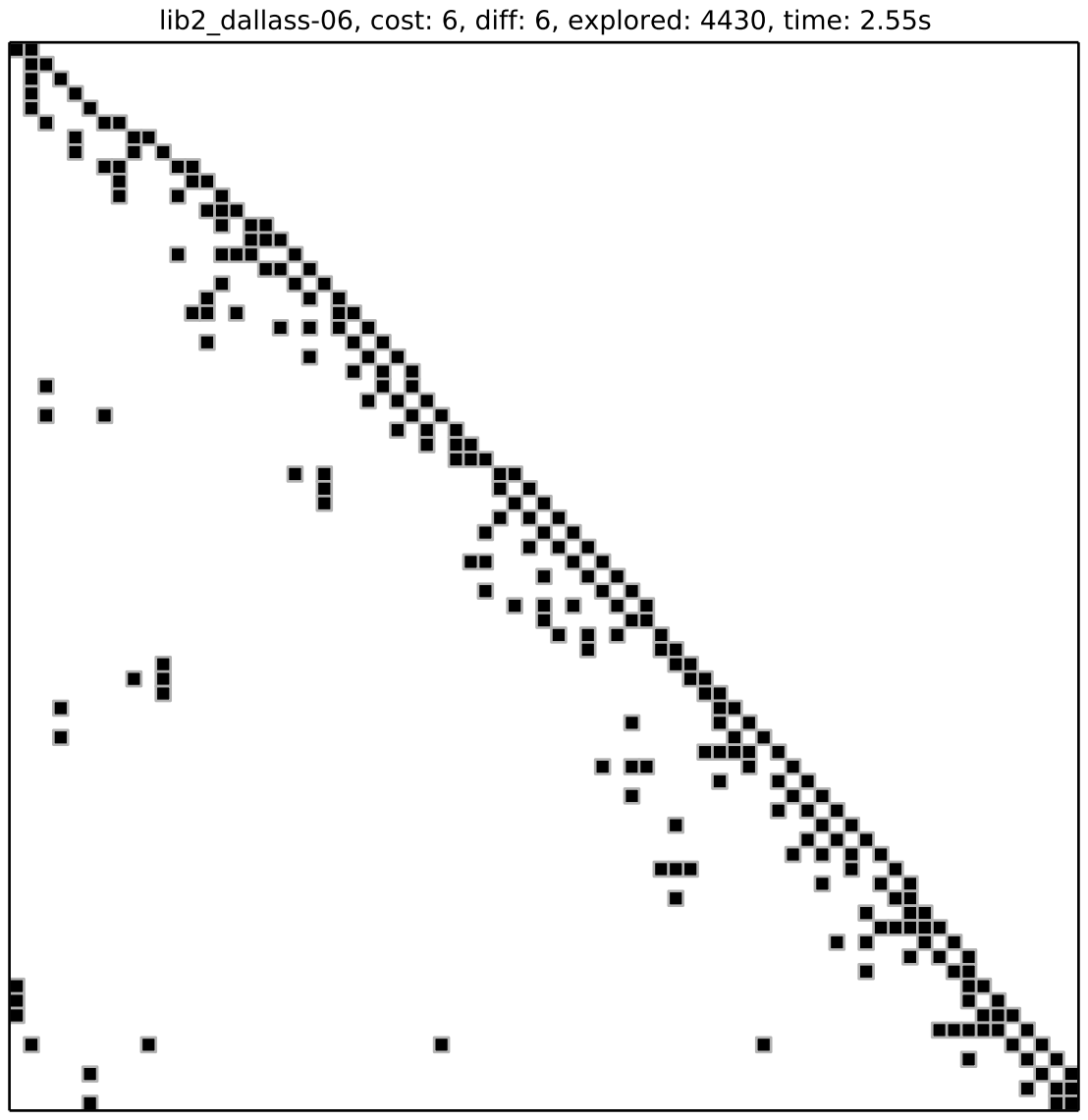
lib2_dallass-05 73x73 (244) con: 29, var: 44



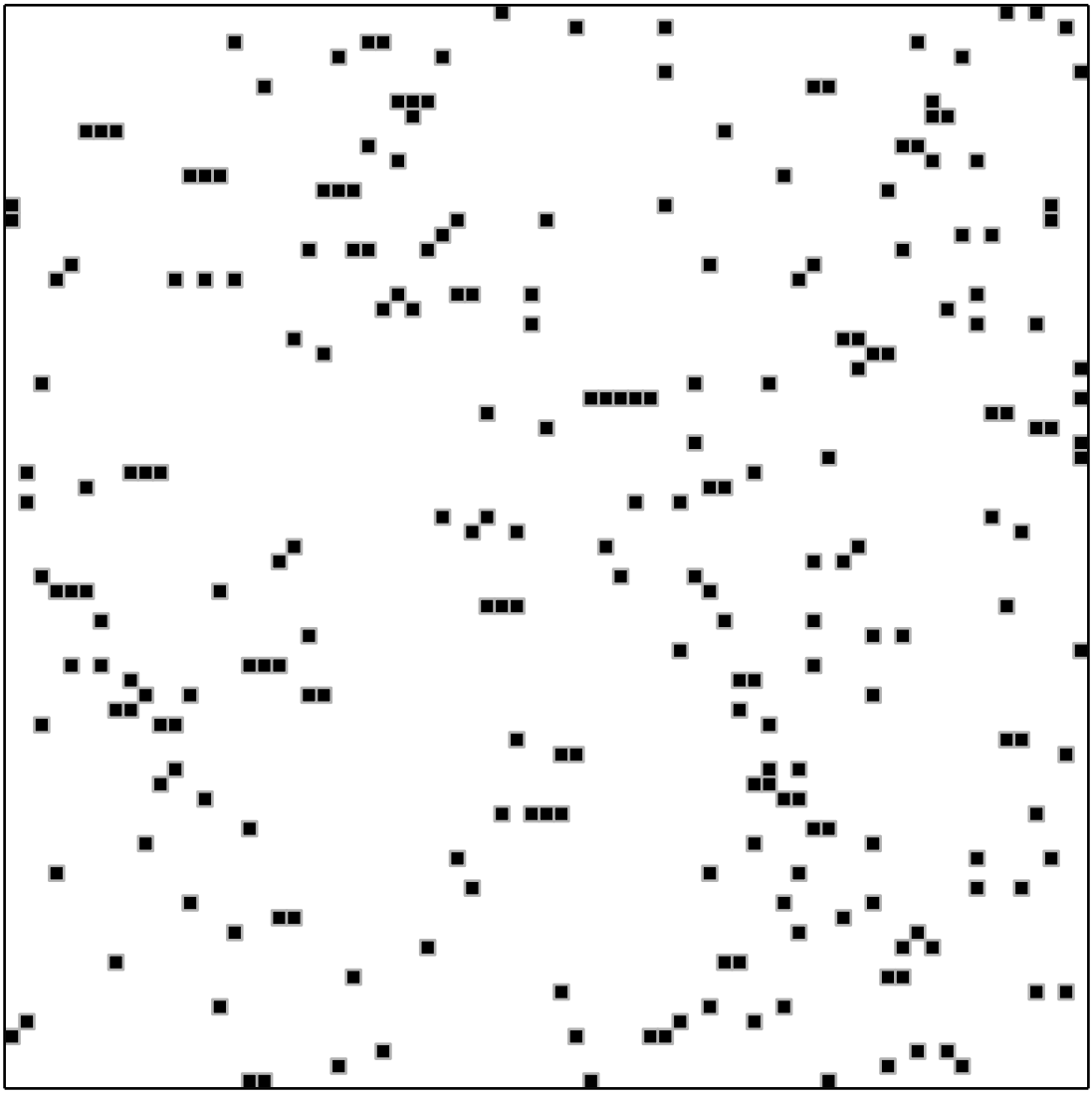

lib2_dallass-05, cost: 6, diff: 6, explored: 3972, time: 2.27s

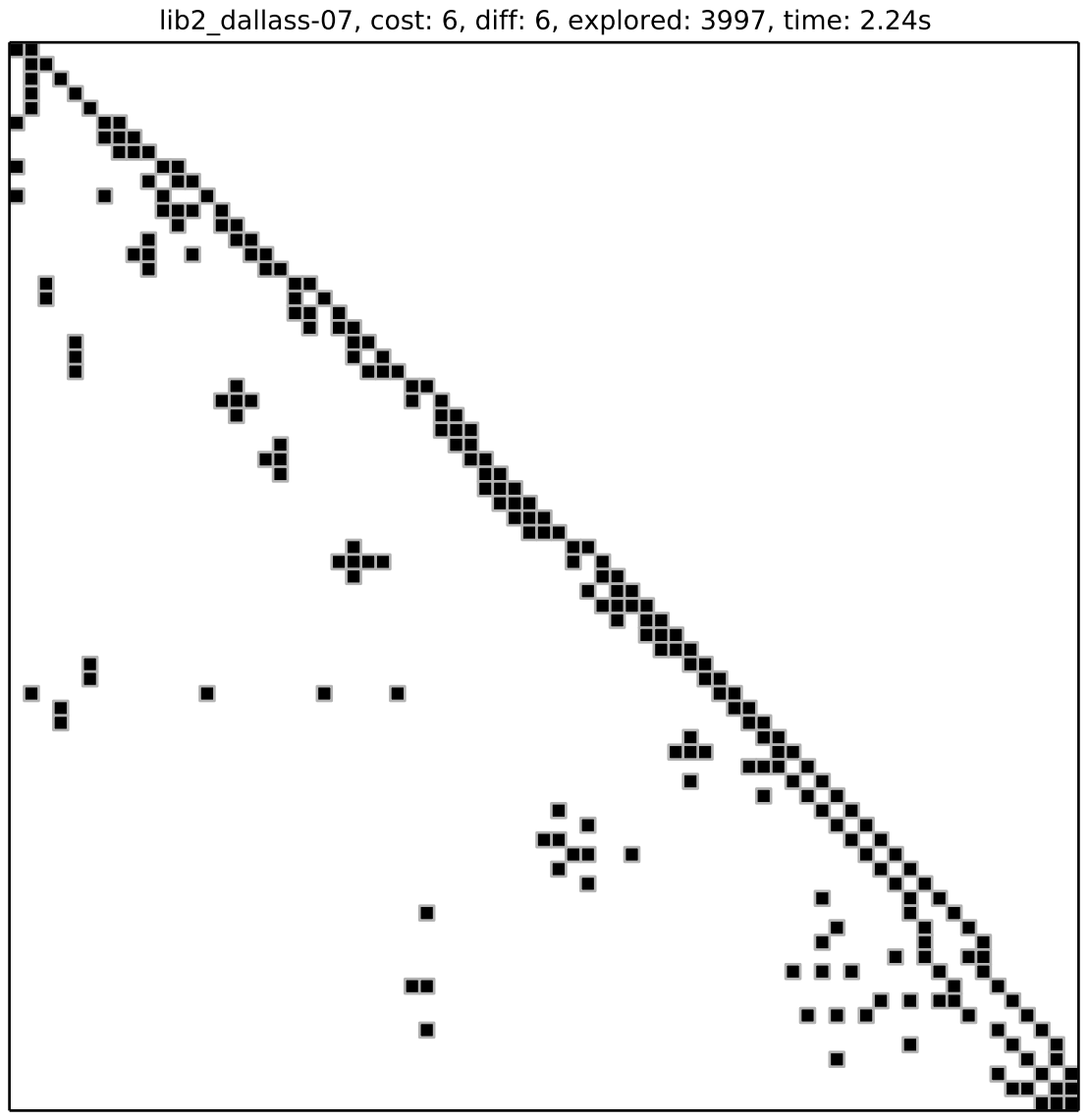
lib2_dallass-06 73x73 (244) con: 29, var: 44



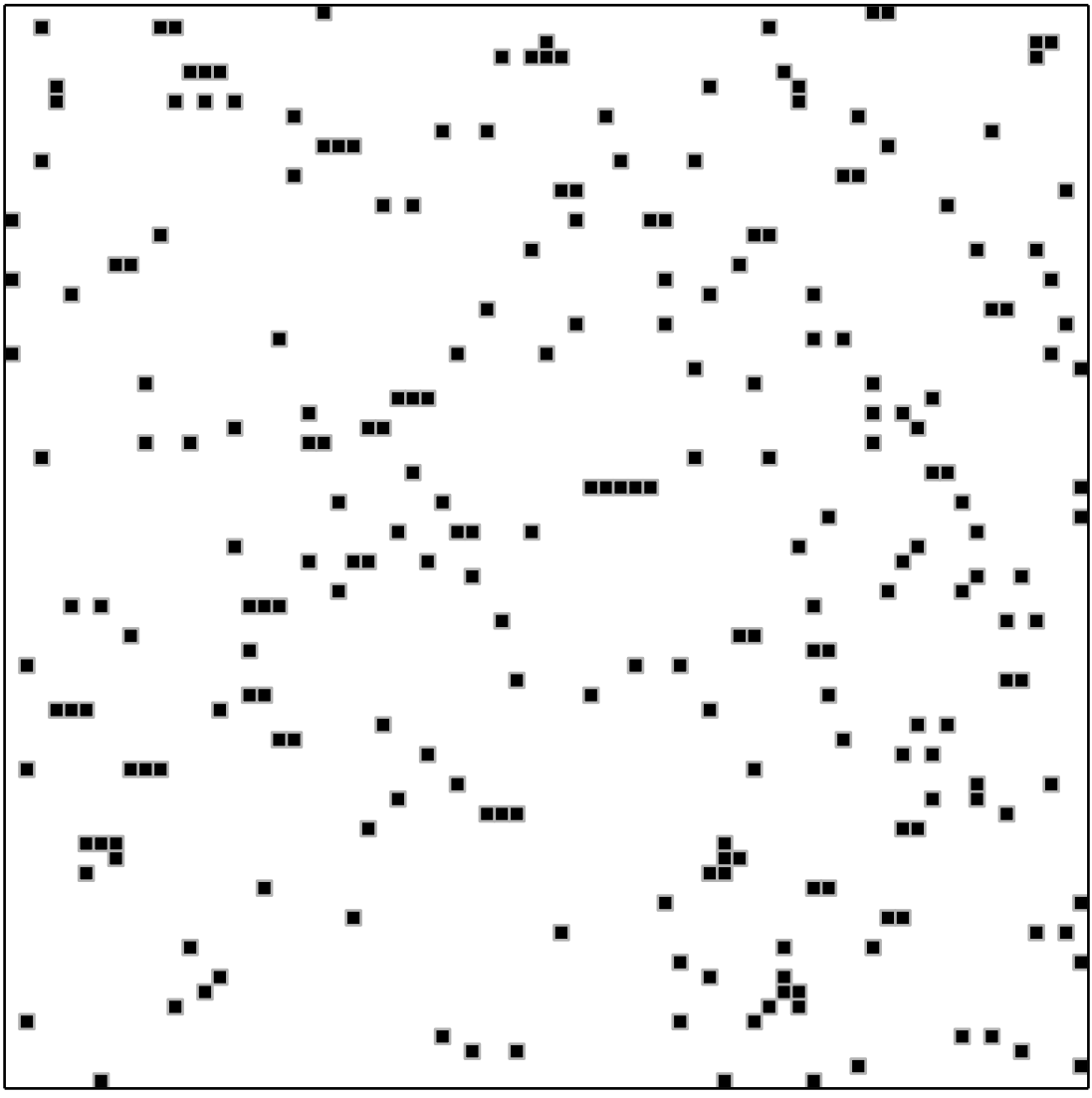

lib2_dallass-06, cost: 6, diff: 6, explored: 4430, time: 2.55s

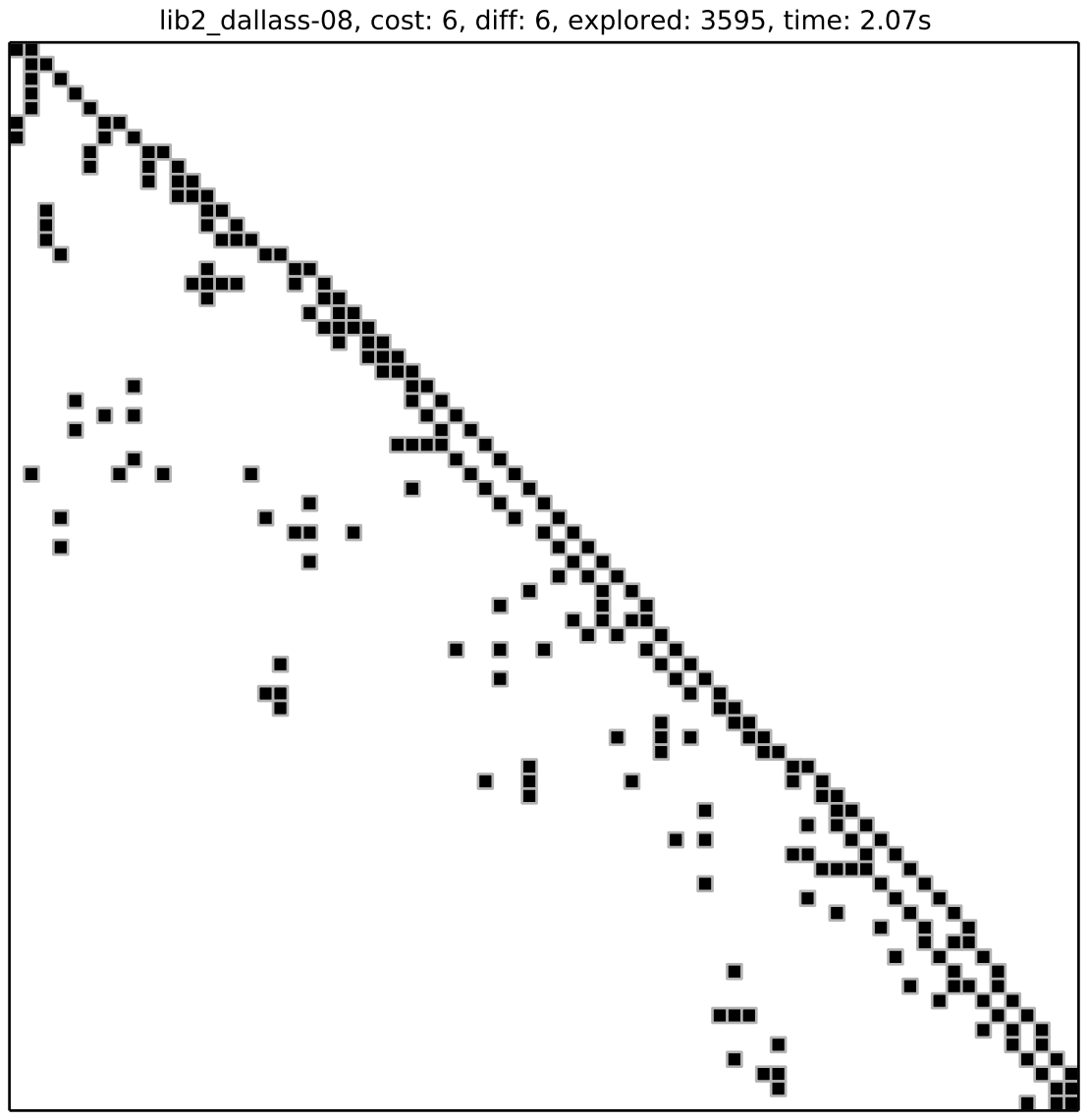
lib2_dallass-07 73x73 (244) con: 29, var: 44



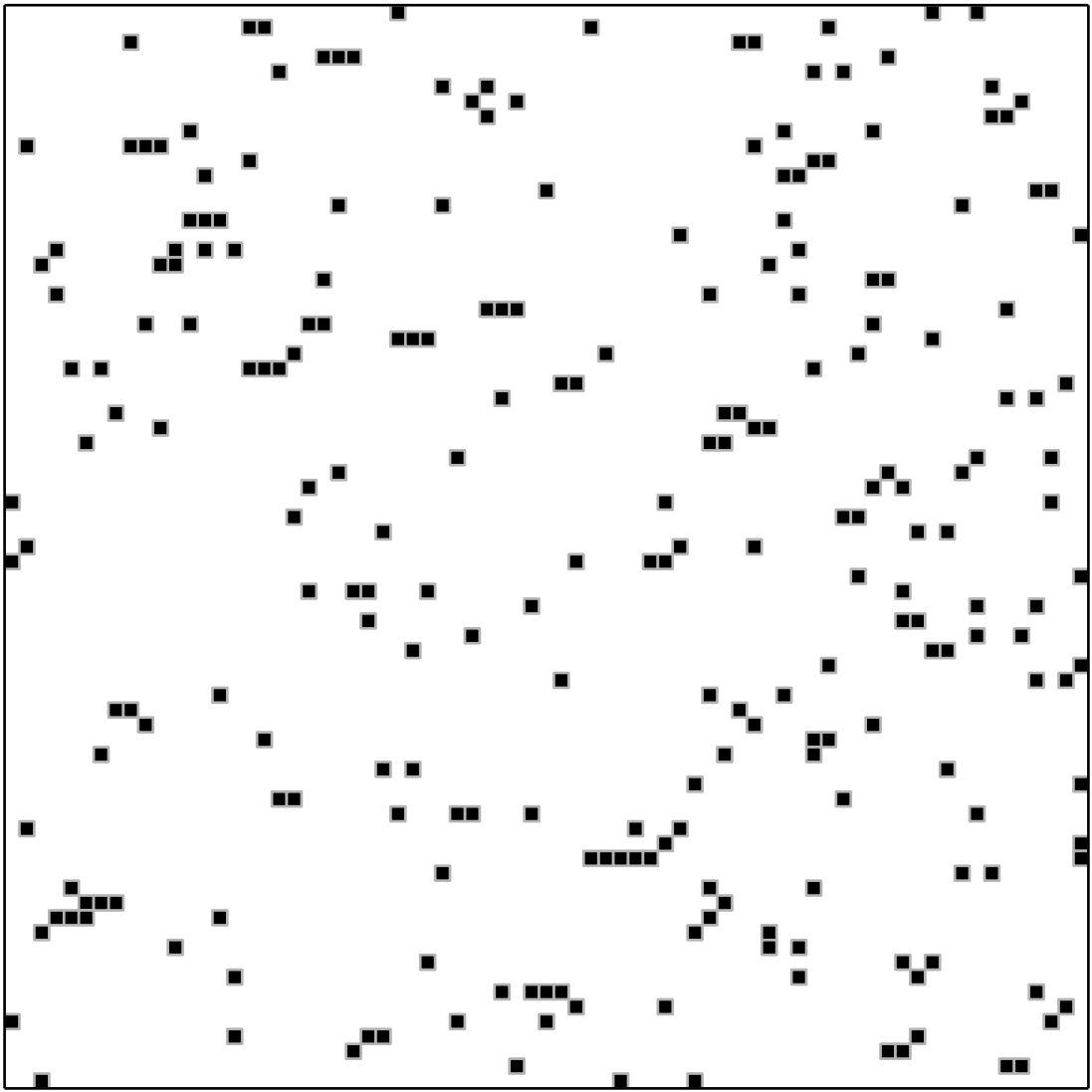

lib2_dallass-07, cost: 6, diff: 6, explored: 3997, time: 2.24s

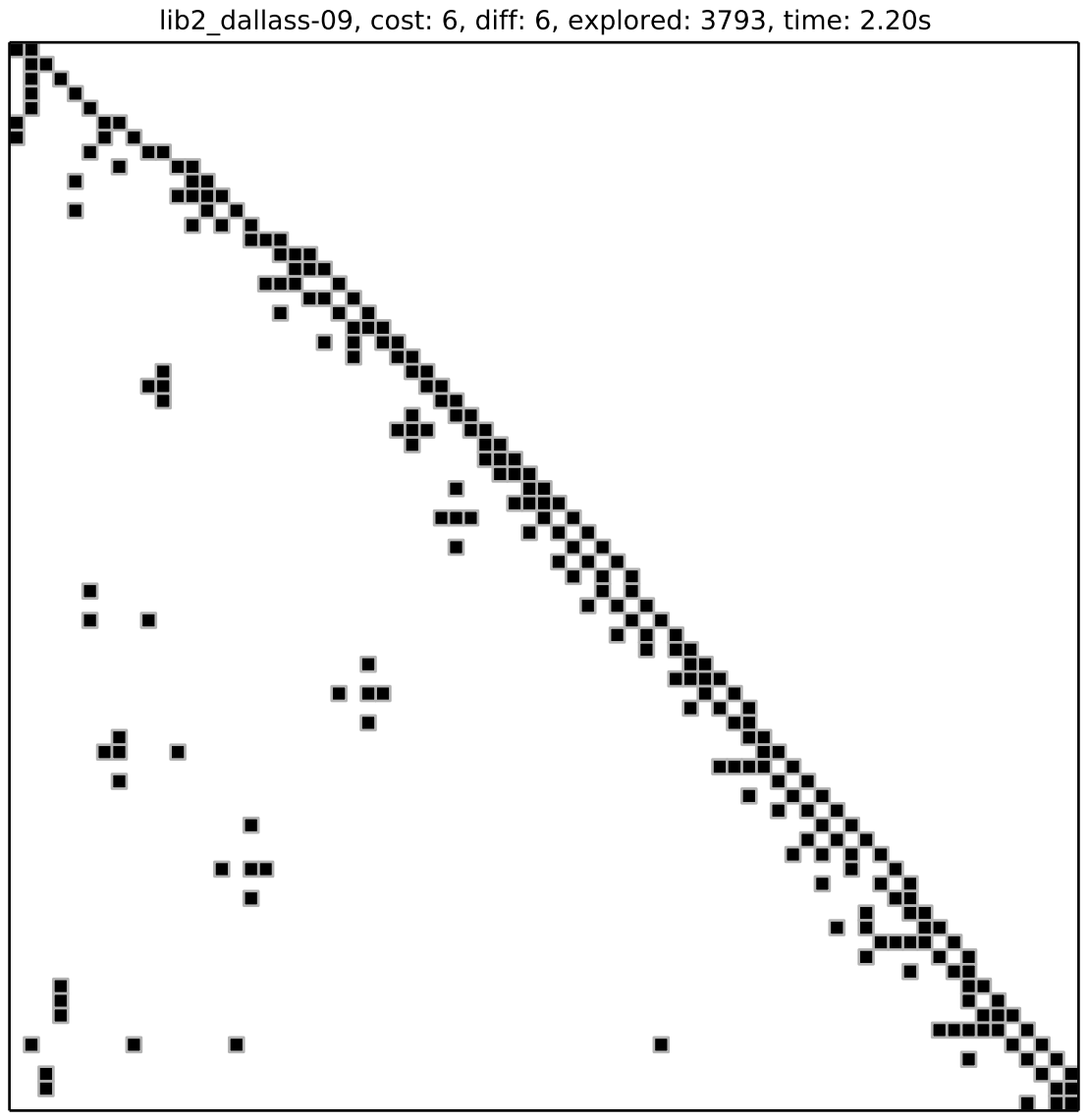
lib2_dallass-08 73x73 (244) con: 29, var: 44

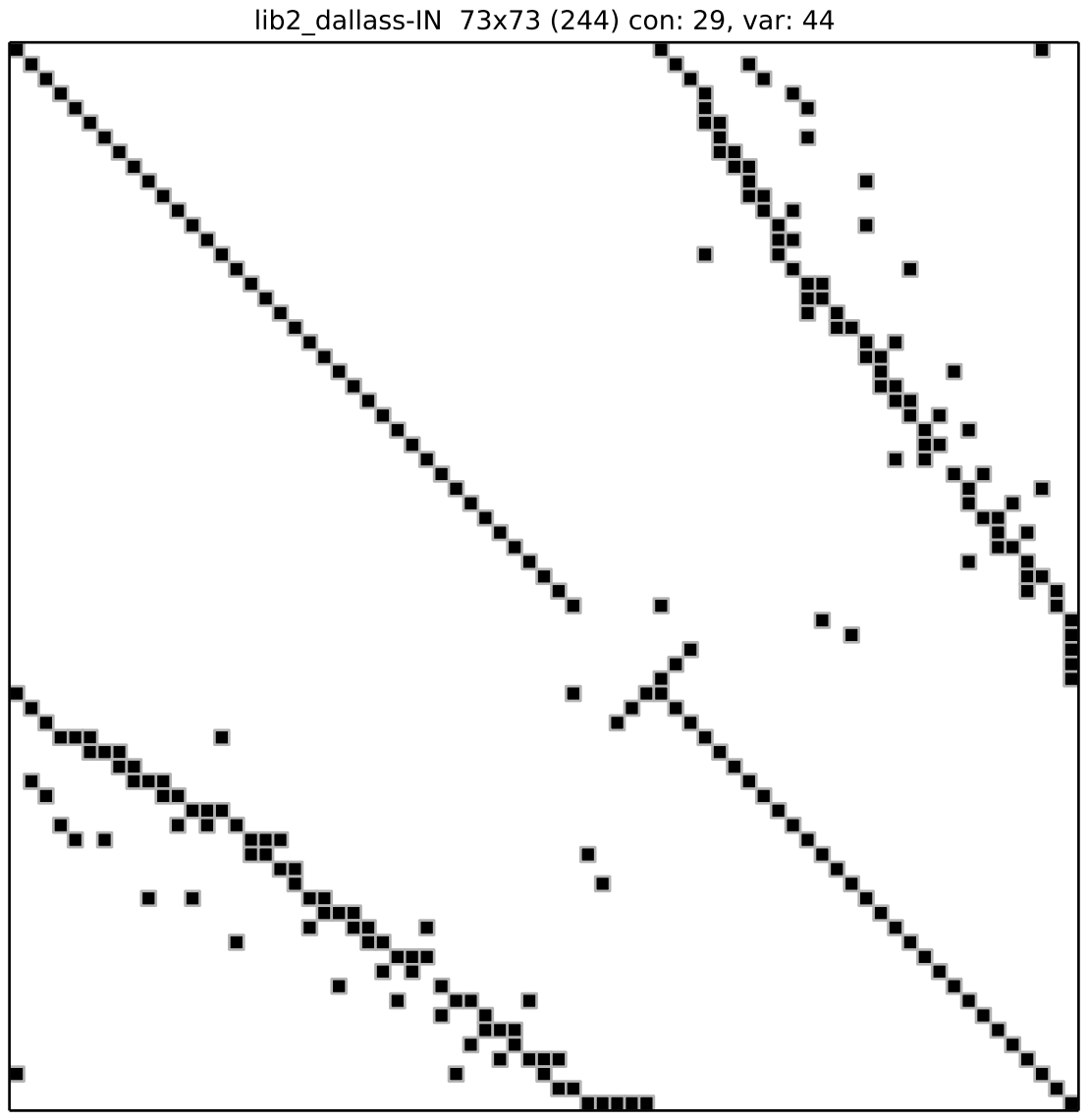


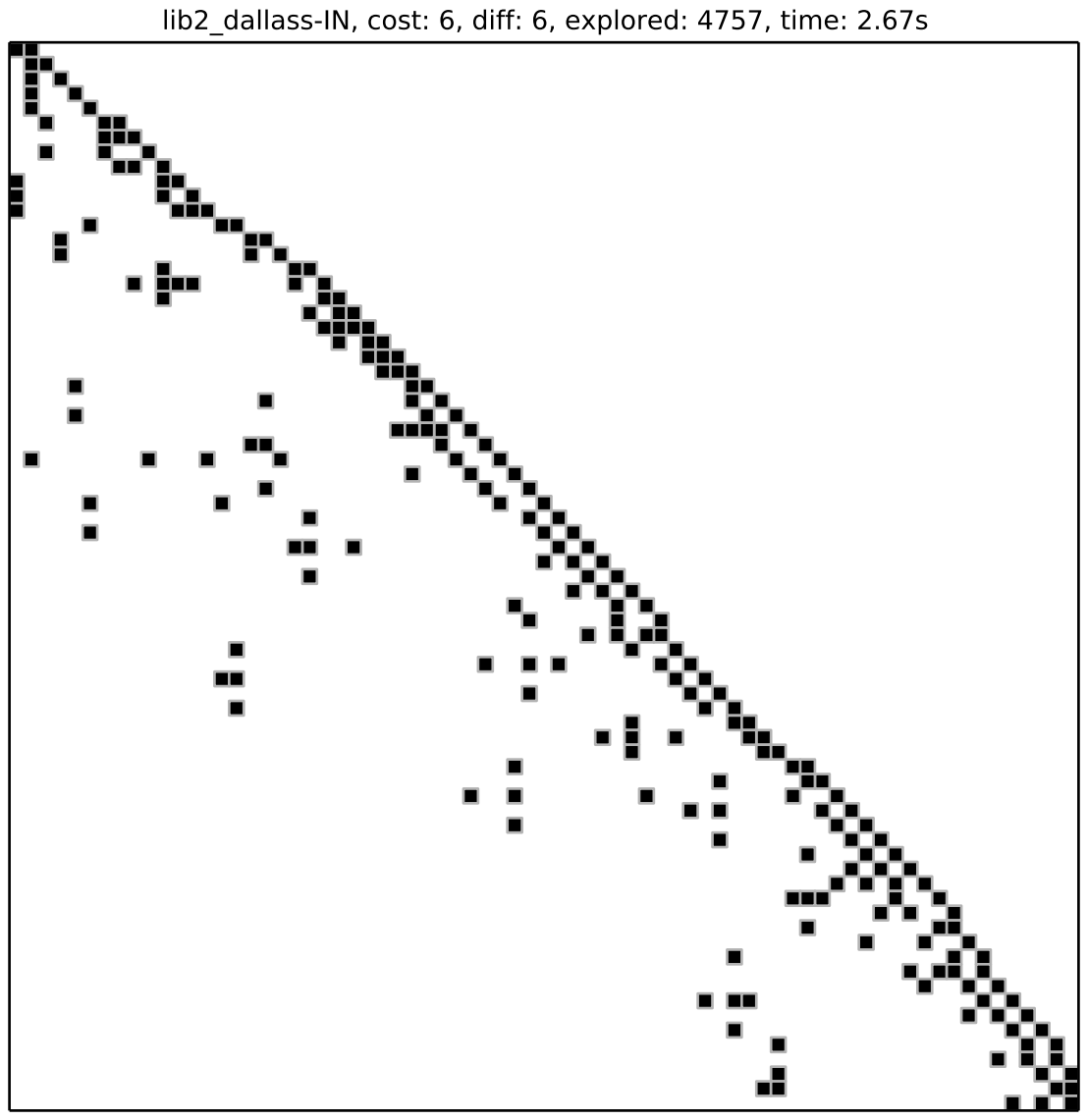

lib2_dallass-08, cost: 6, diff: 6, explored: 3595, time: 2.07s

lib2_dallass-09 73x73 (244) con: 29, var: 44




lib2_dallass-09, cost: 6, diff: 6, explored: 3793, time: 2.20s


lib2_dallass-IN 73x73 (244) con: 29, var: 44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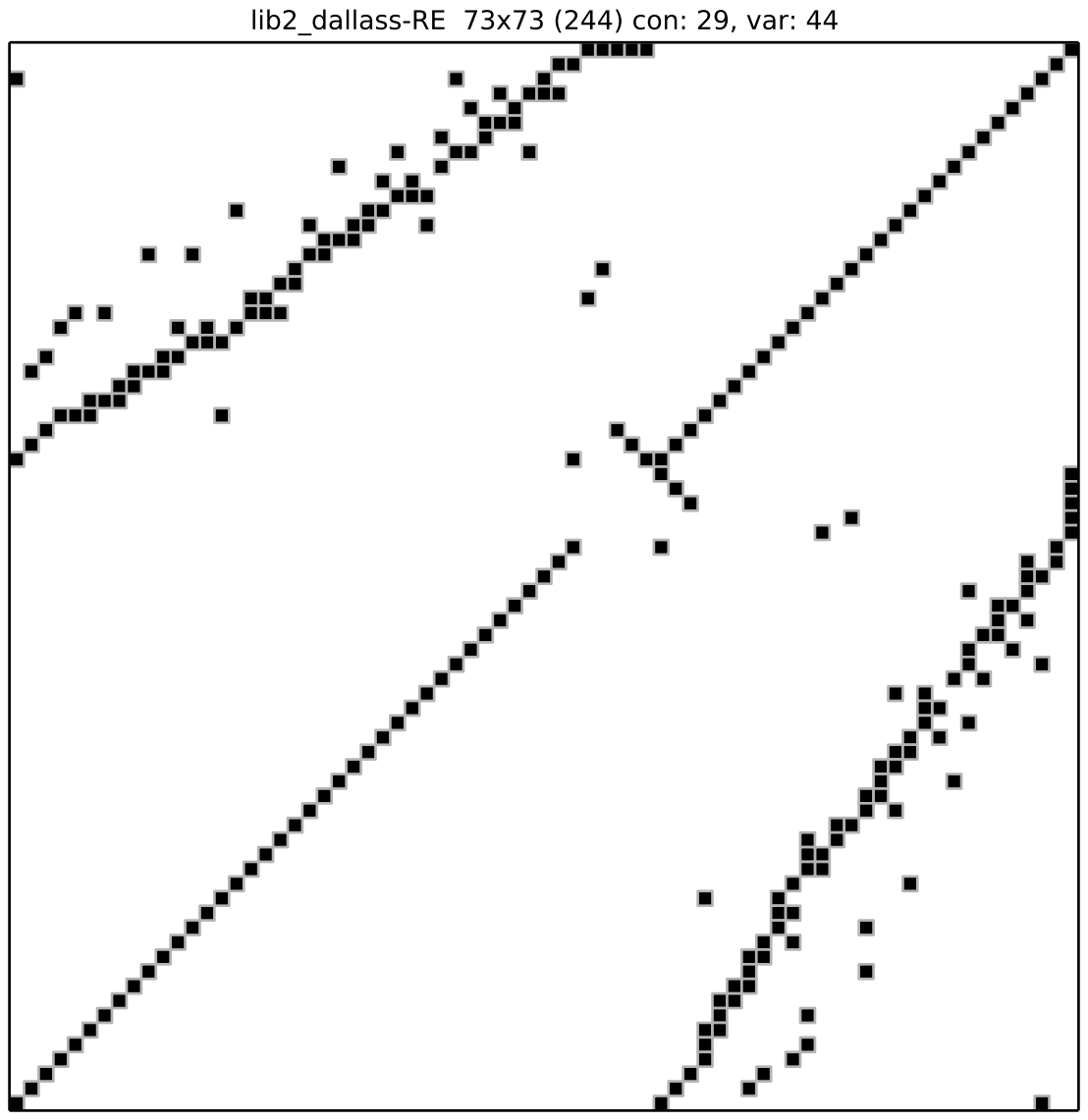
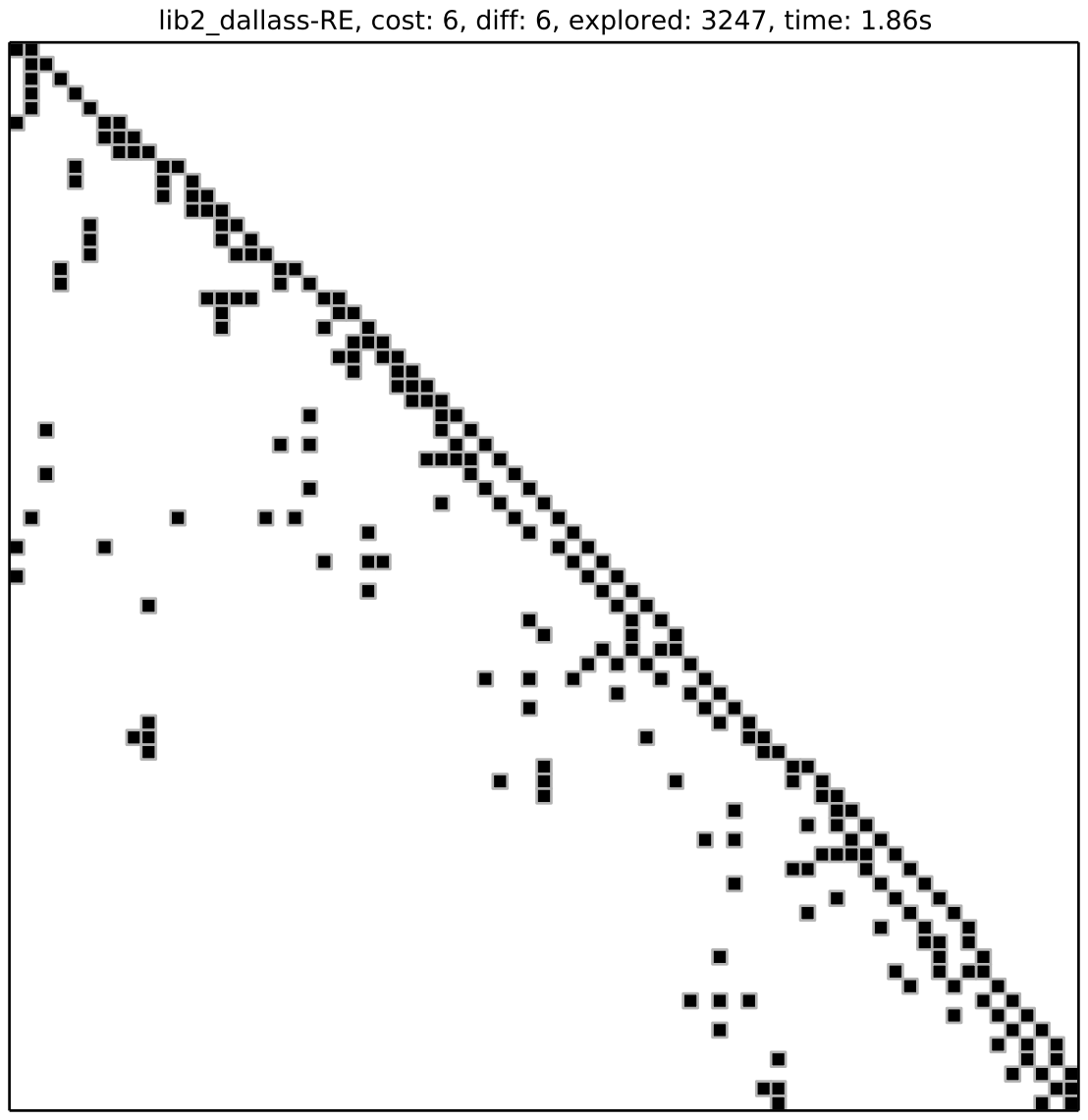
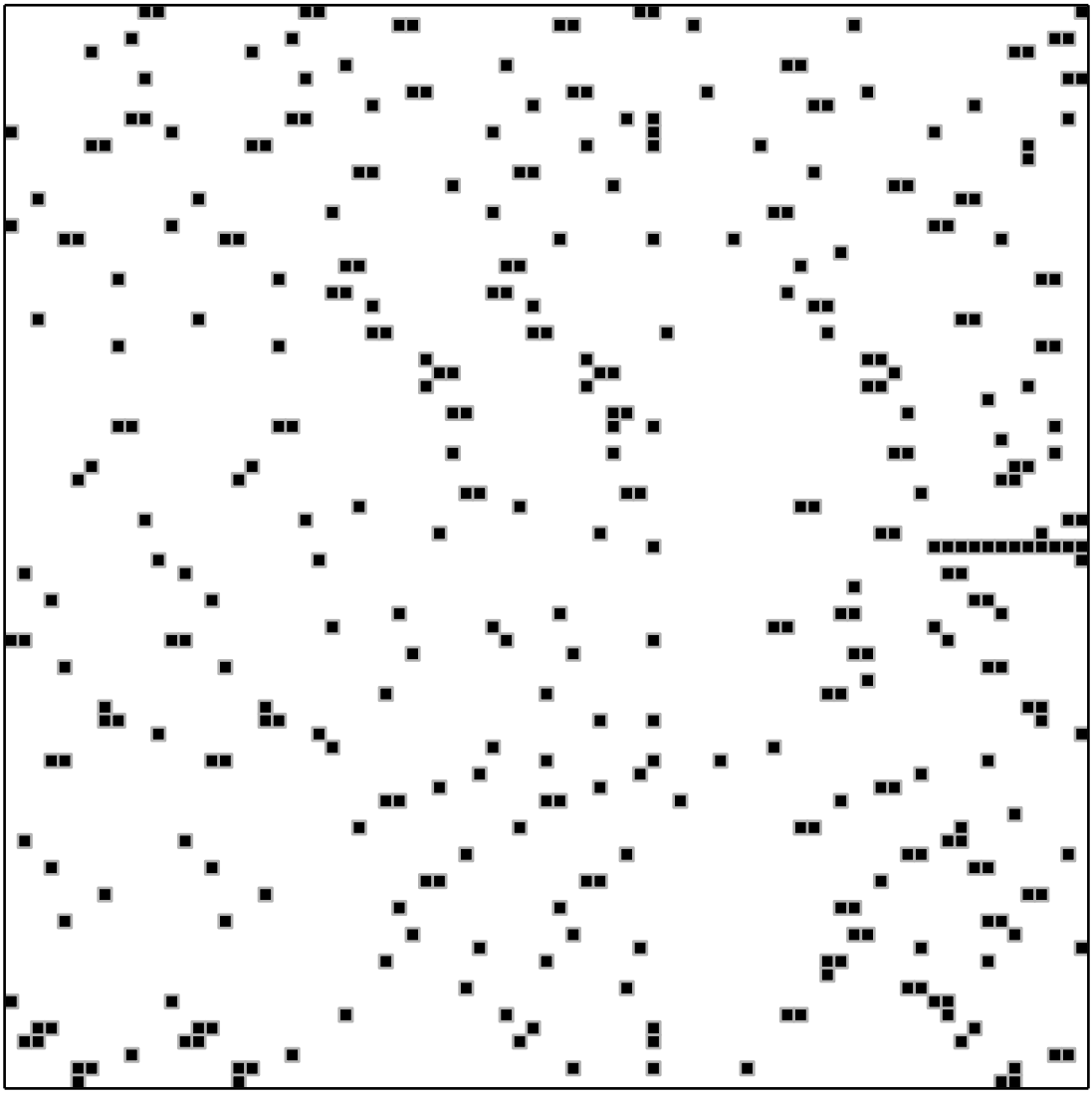
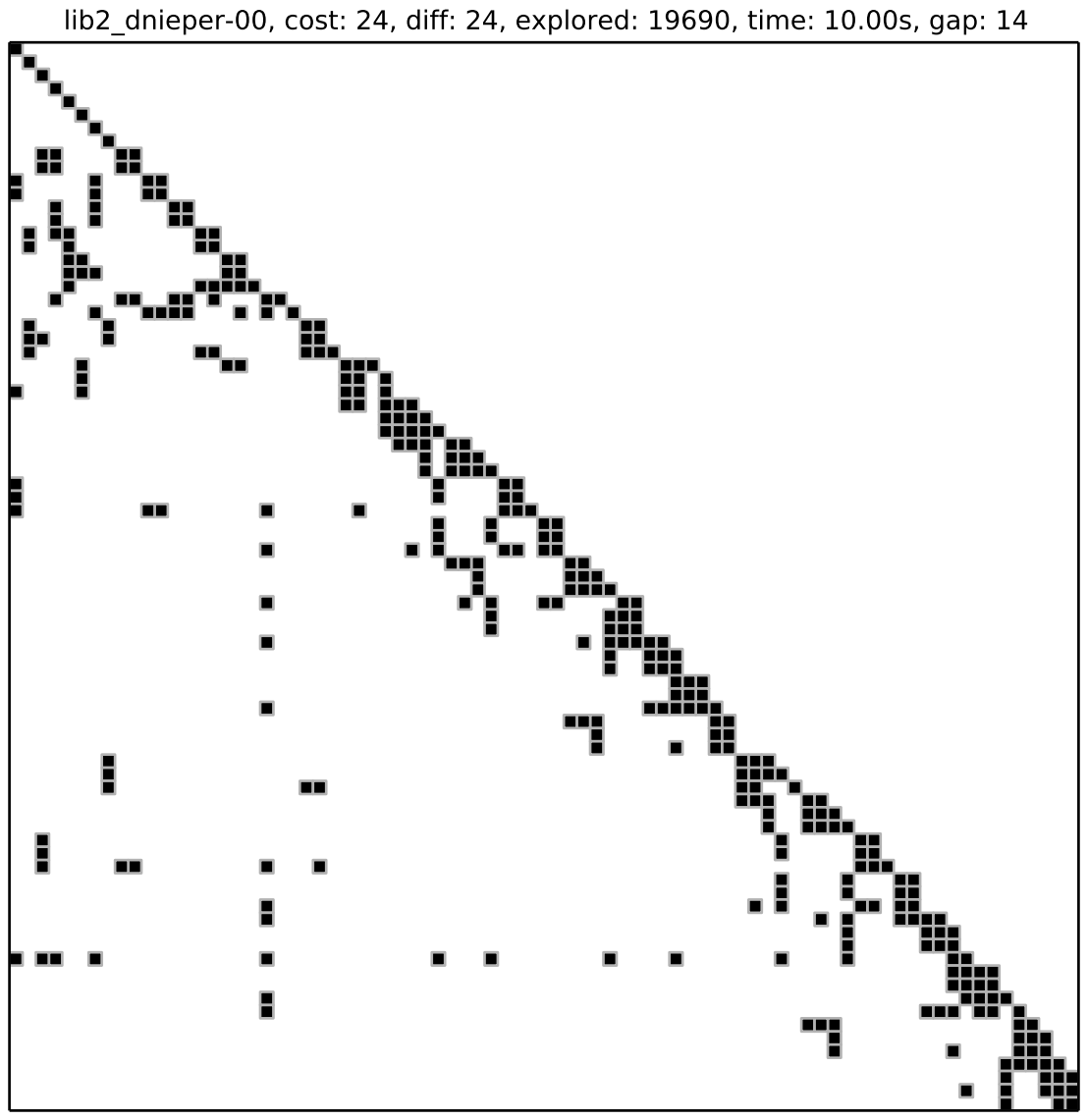

lib2_dallass-RE 73x73 (244) con: 29, var: 44


lib2_dallass-RE, cost: 6, diff: 6, explored: 3247, time: 1.86s

lib2_dnieper-00 81x81 (369) con: 24, var: 57

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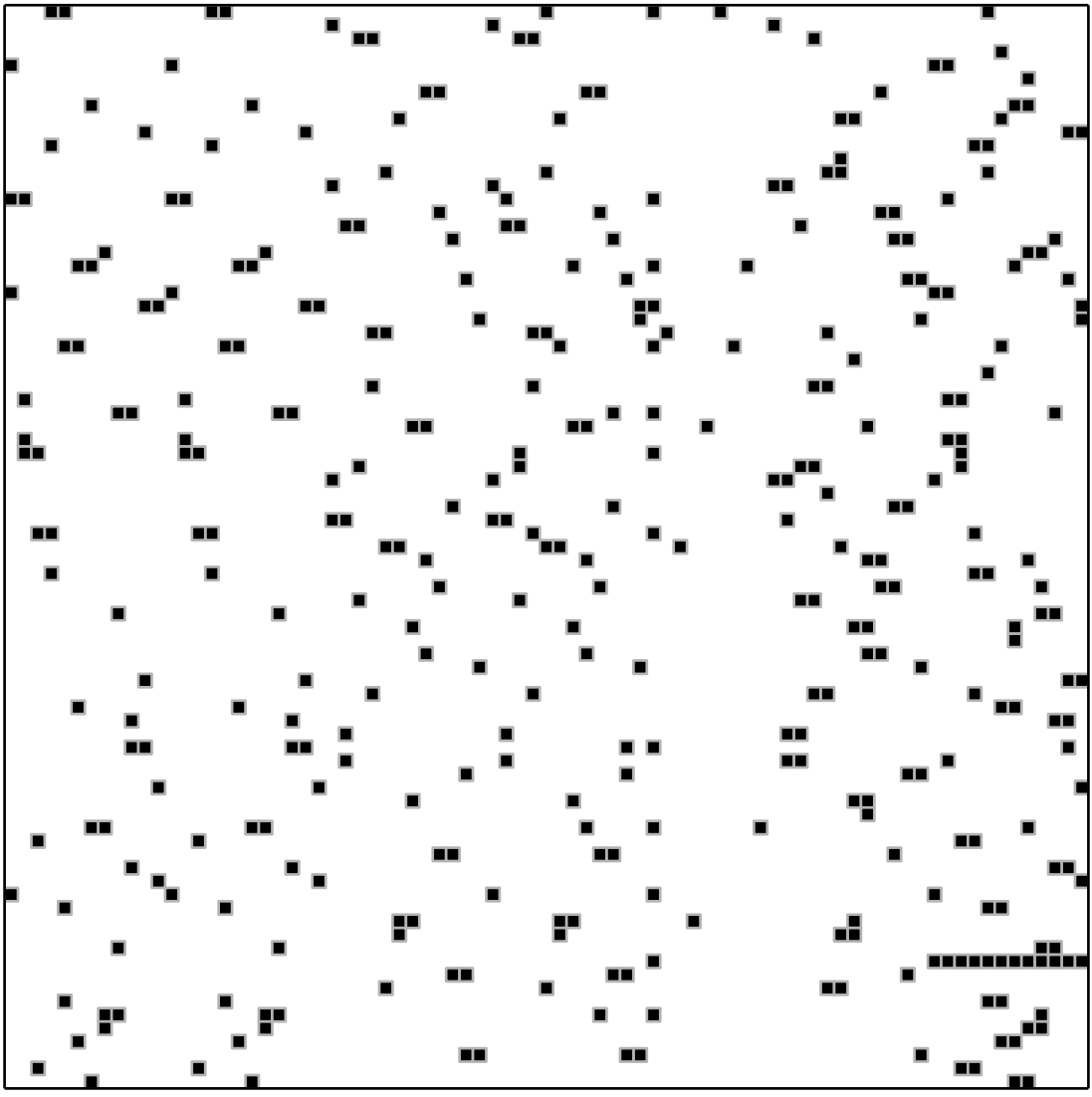
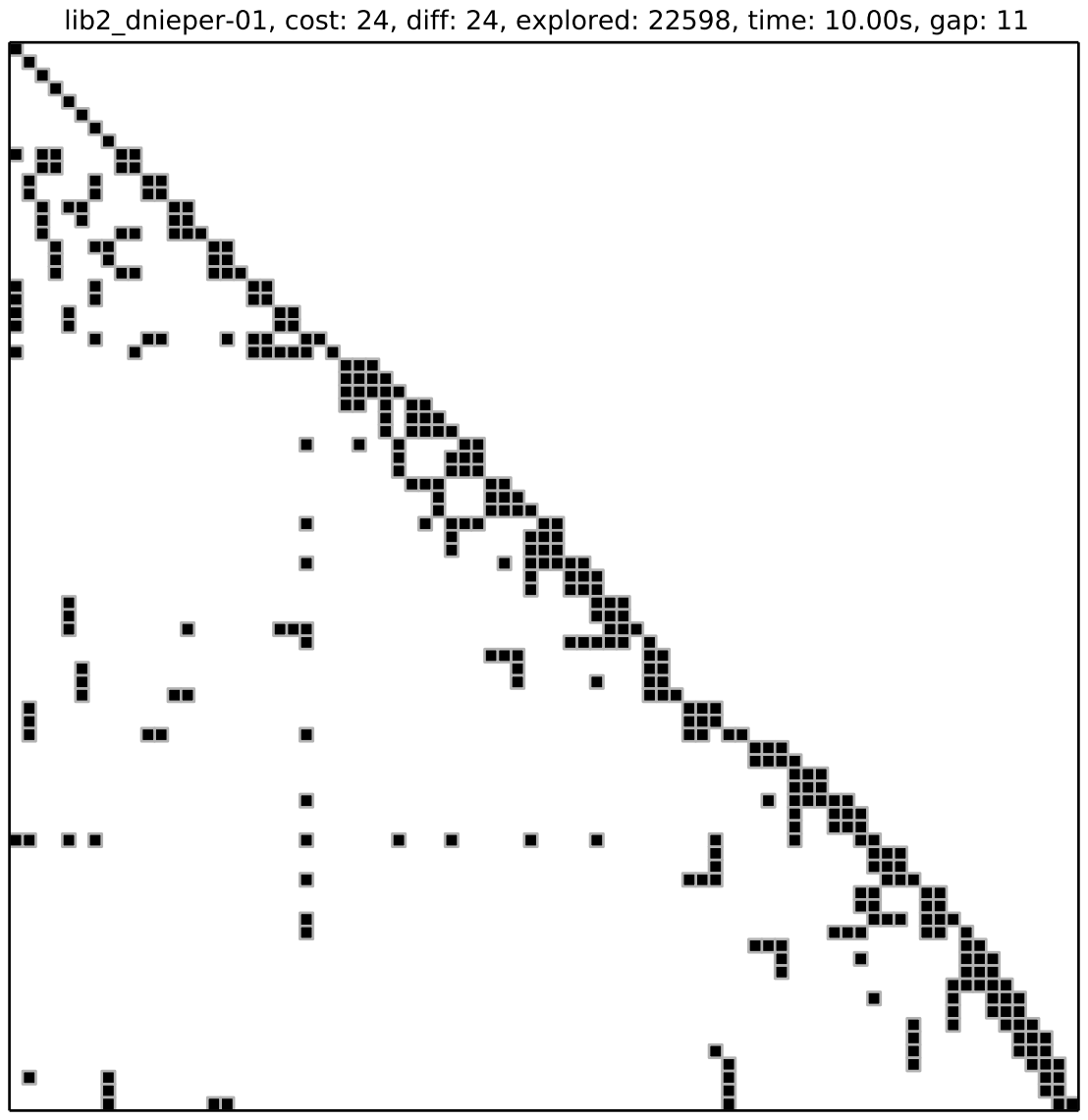
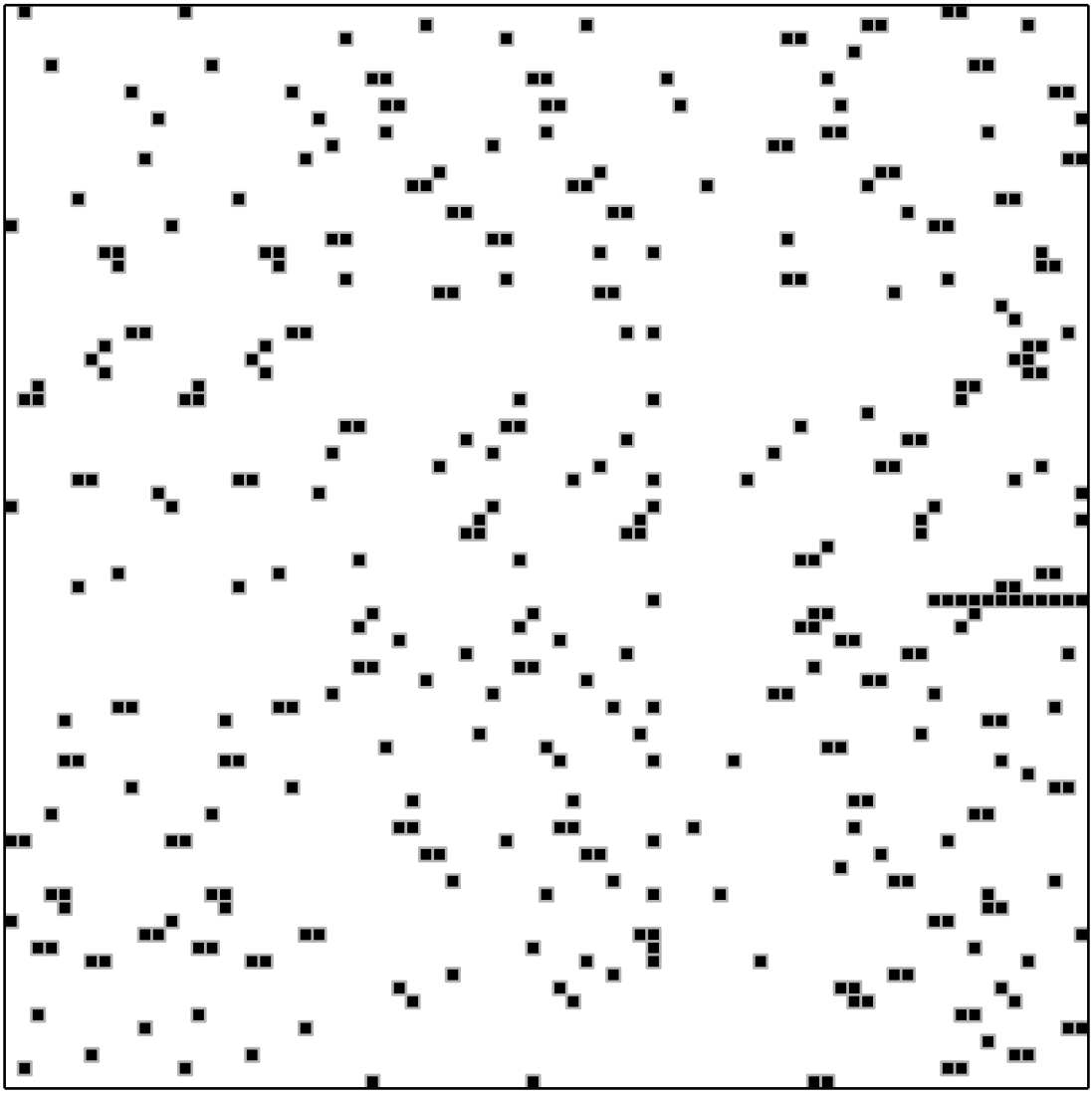
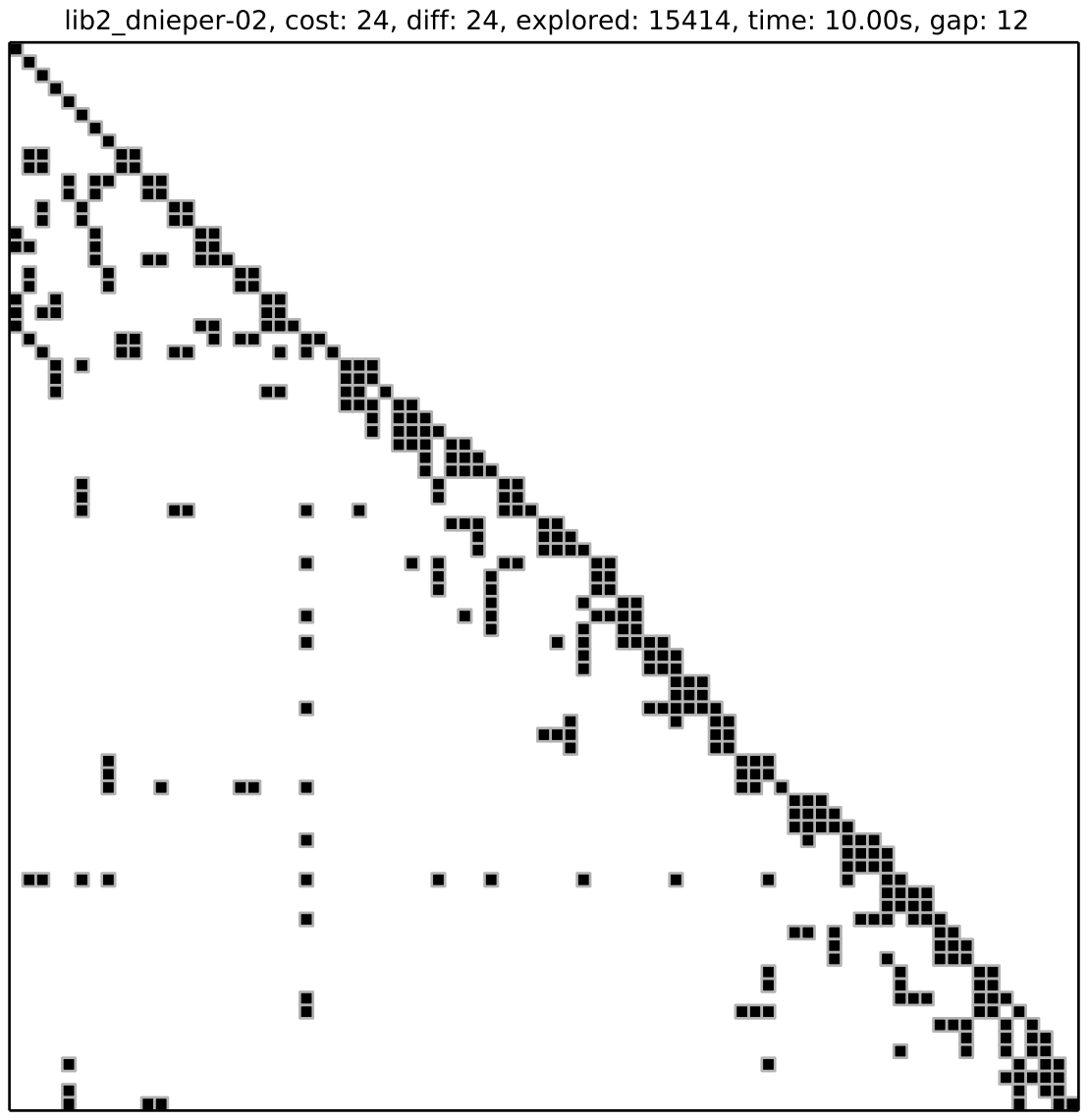
lib2_dnieper-01 81x81 (369) con: 24, var: 57



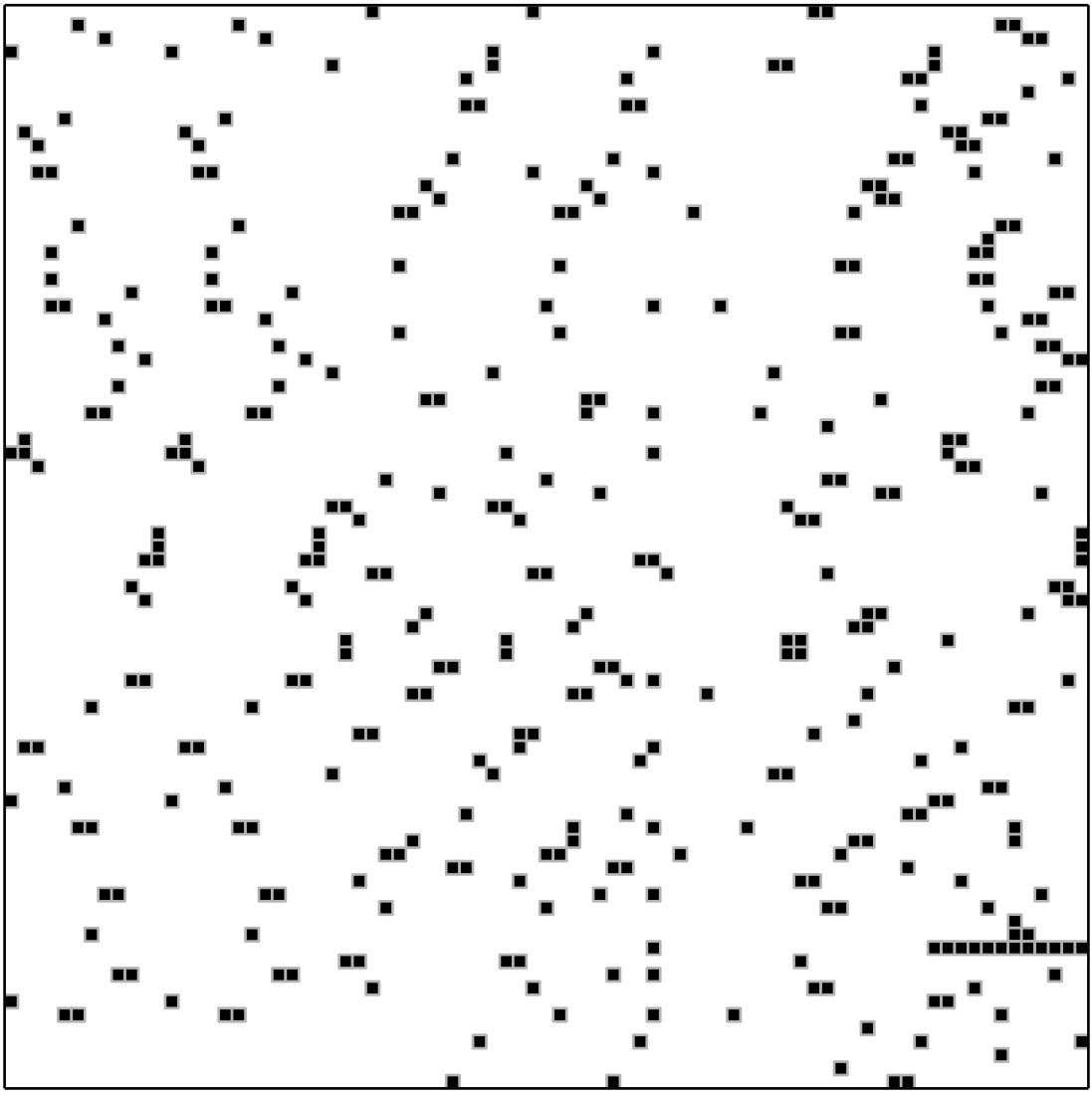

lib2_dnieper-01, cost: 24, diff: 24, explored: 22598, time: 10.00s, gap: 11

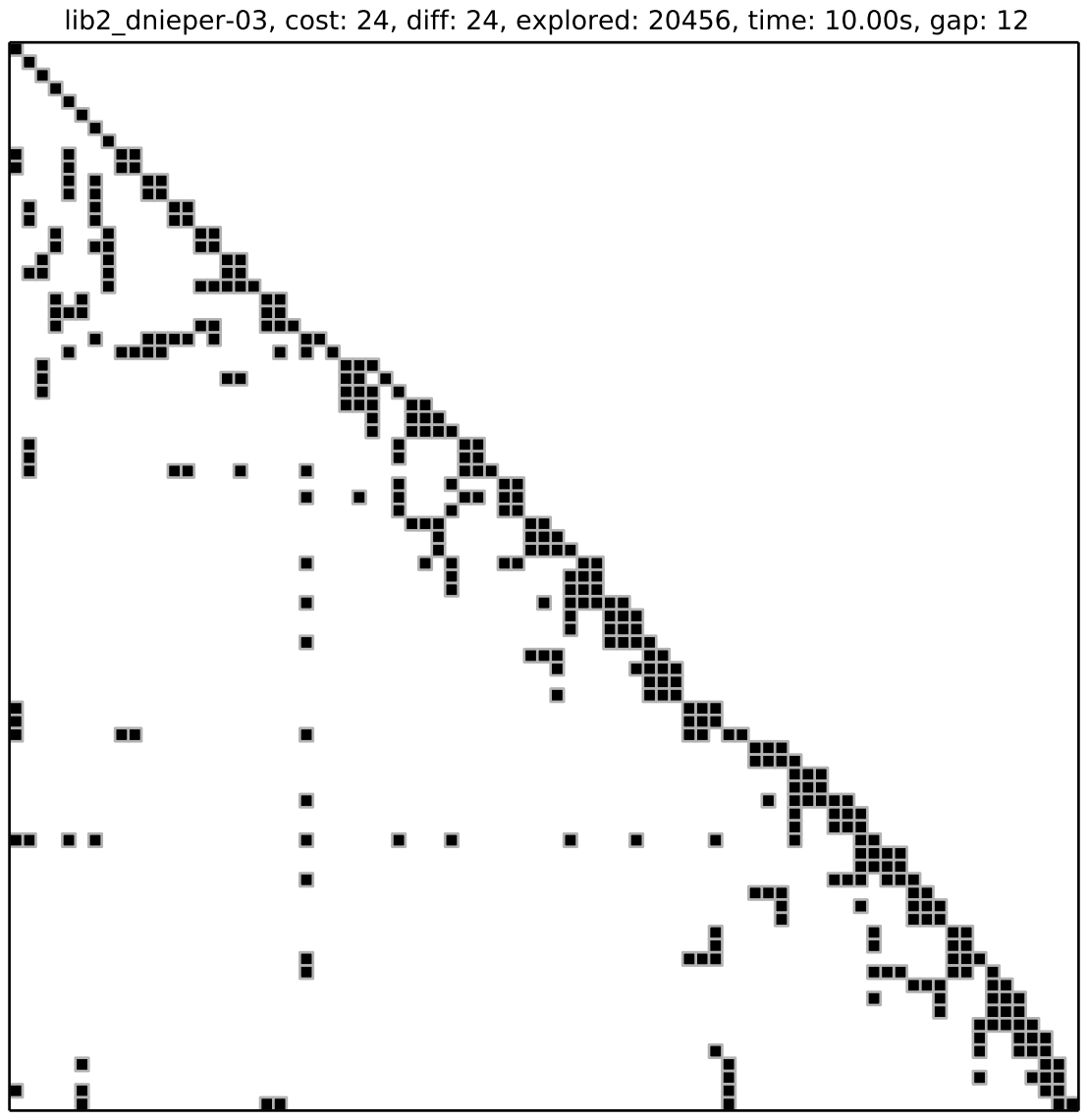
lib2_dnieper-02 81x81 (369) con: 24, var: 57



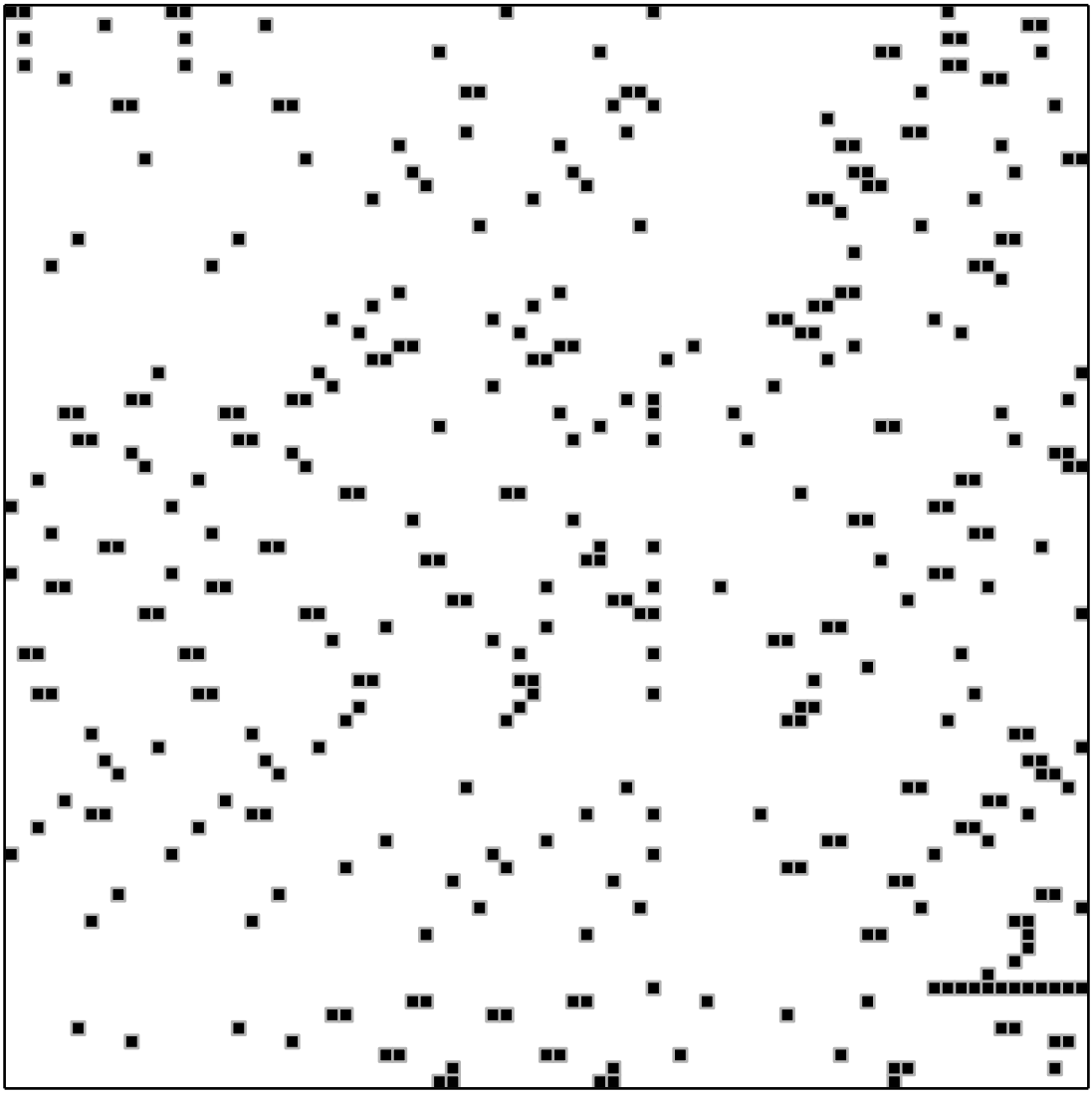

lib2_dnieper-02, cost: 24, diff: 24, explored: 15414, time: 10.00s, gap: 12

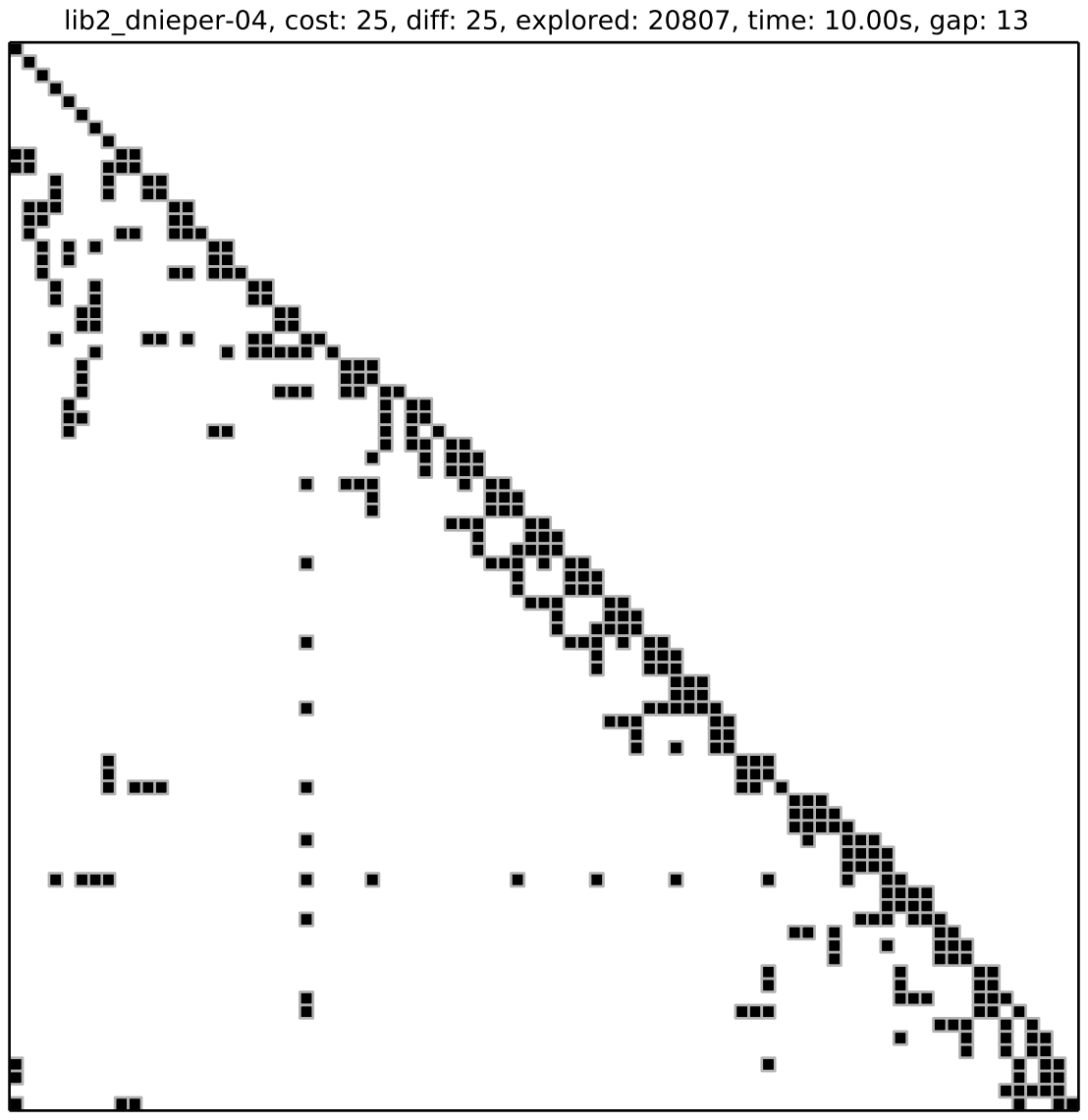
lib2_dnieper-03 81x81 (369) con: 24, var: 57



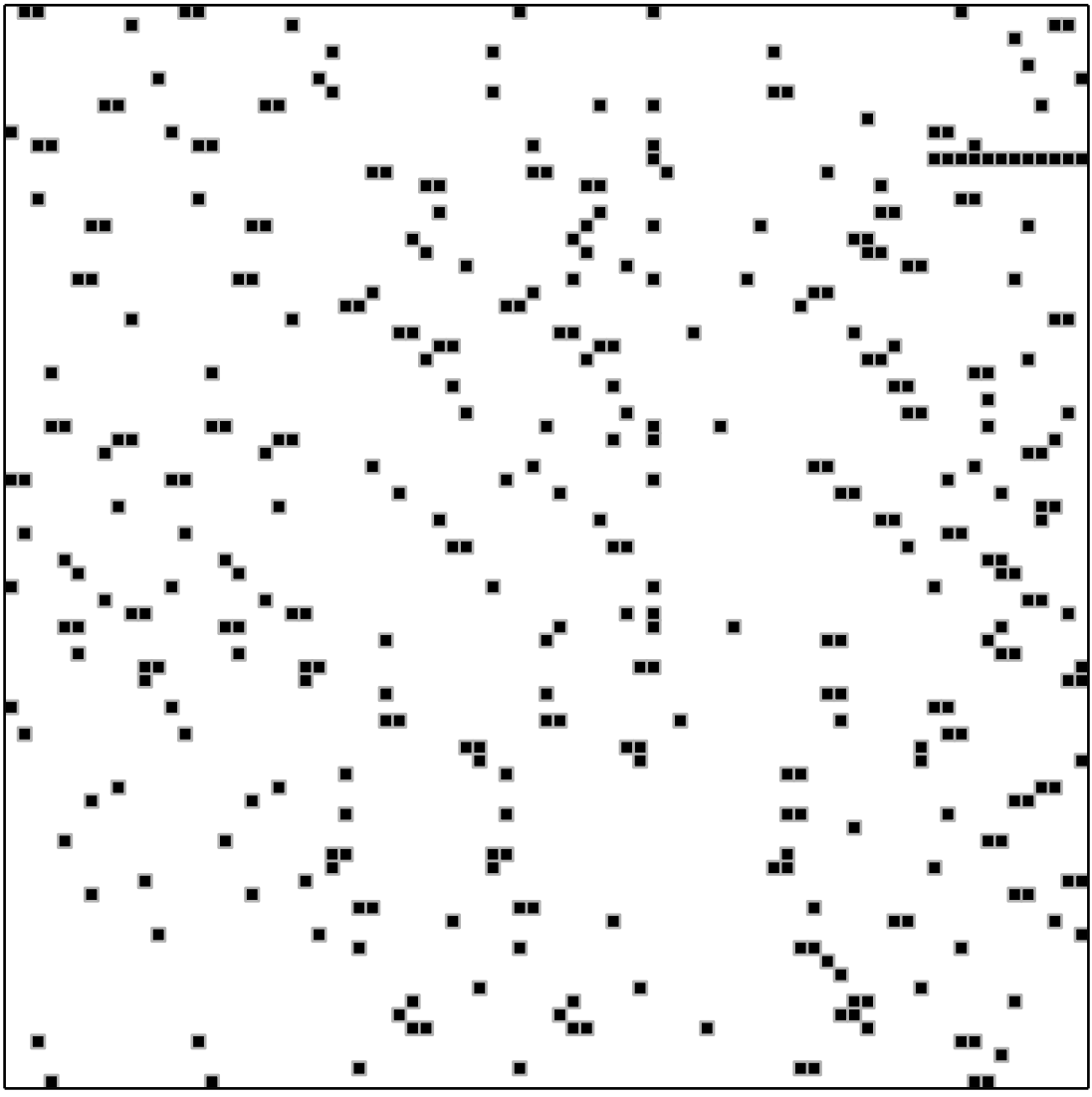

lib2_dnieper-03, cost: 24, diff: 24, explored: 20456, time: 10.00s, gap: 12

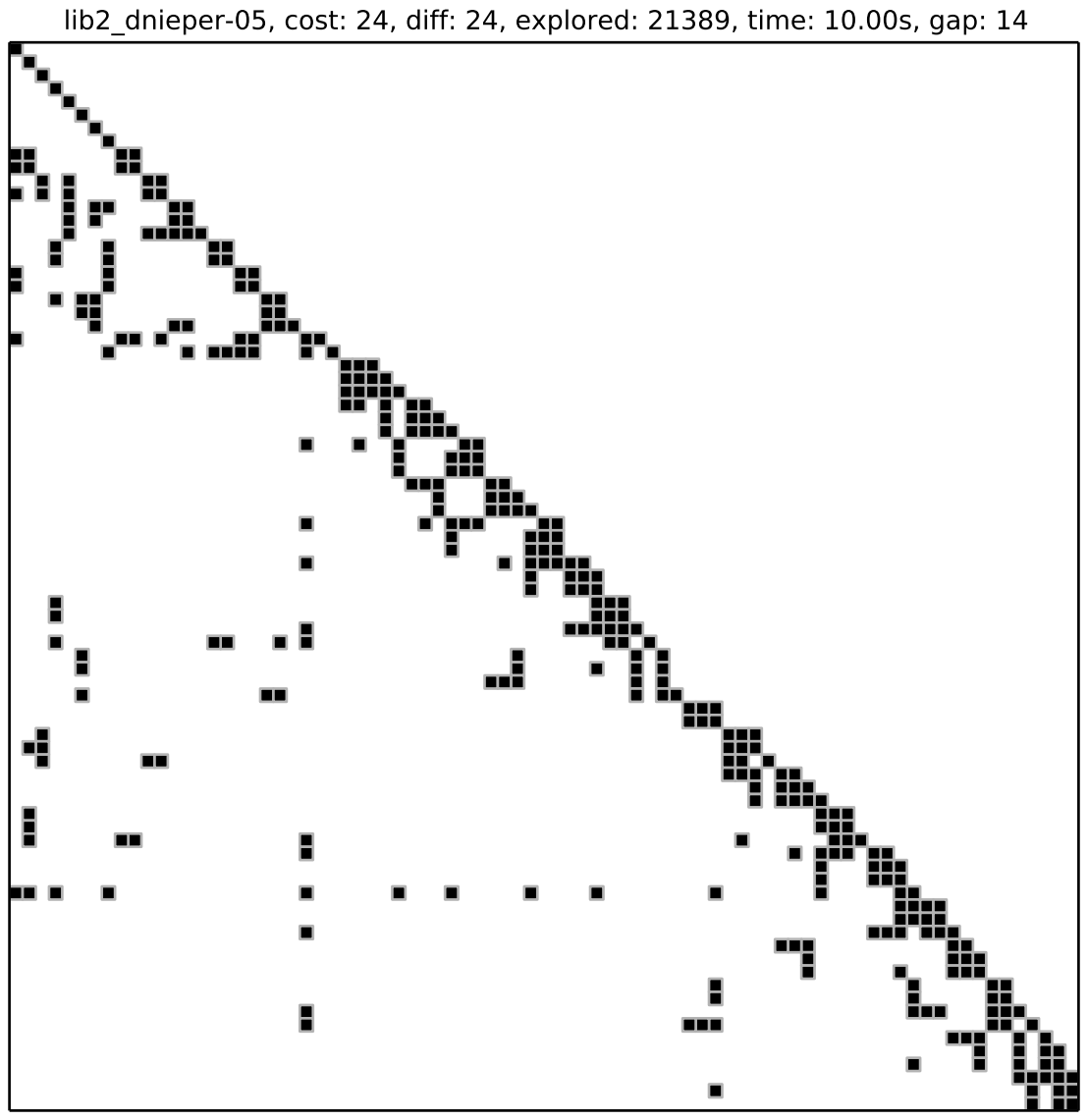
lib2_dnieper-04 81x81 (369) con: 24, var: 57



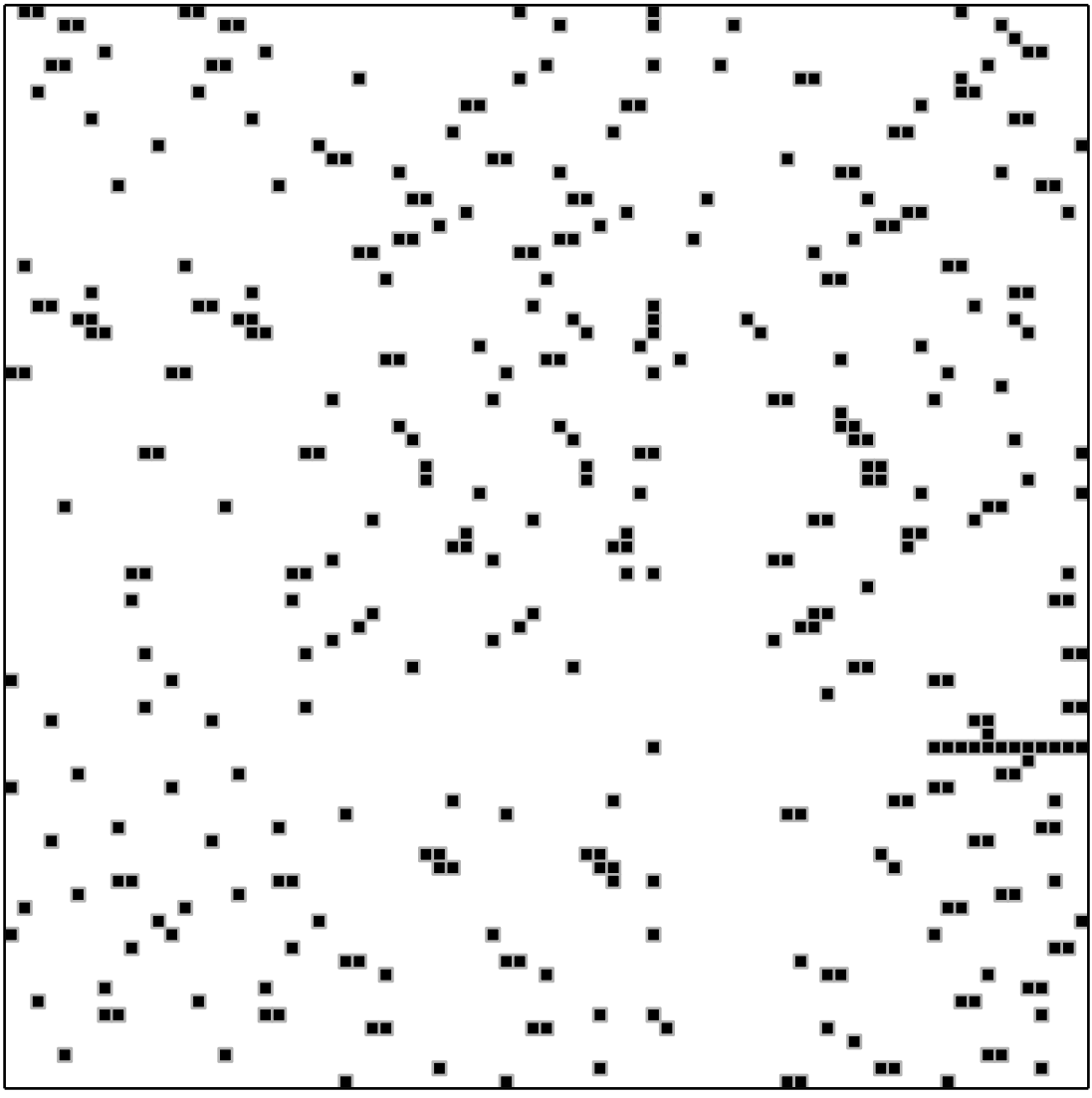

lib2_dnieper-04, cost: 25, diff: 25, explored: 20807, time: 10.00s, gap: 13

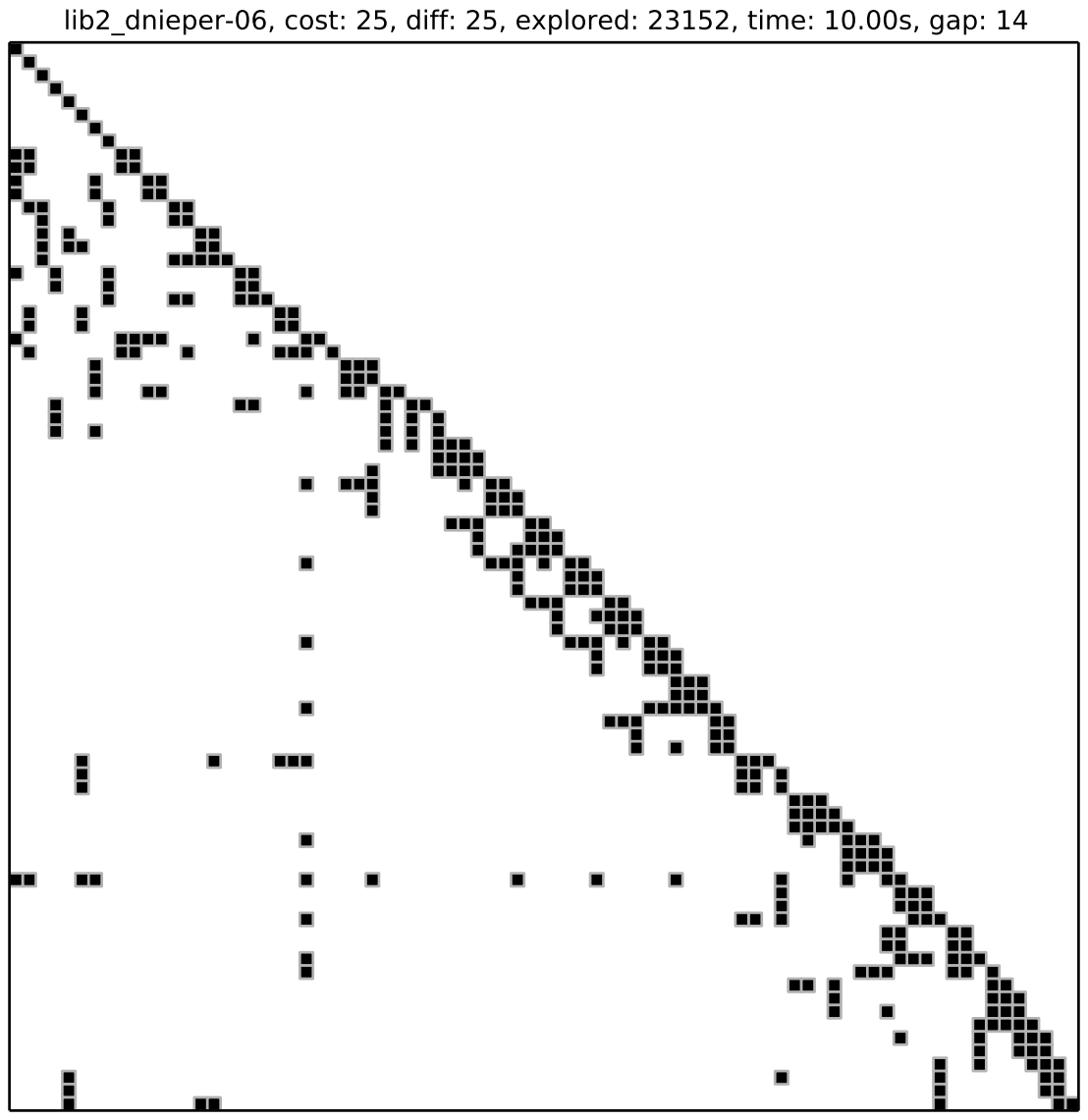
lib2_dnieper-05 81x81 (369) con: 24, var: 57



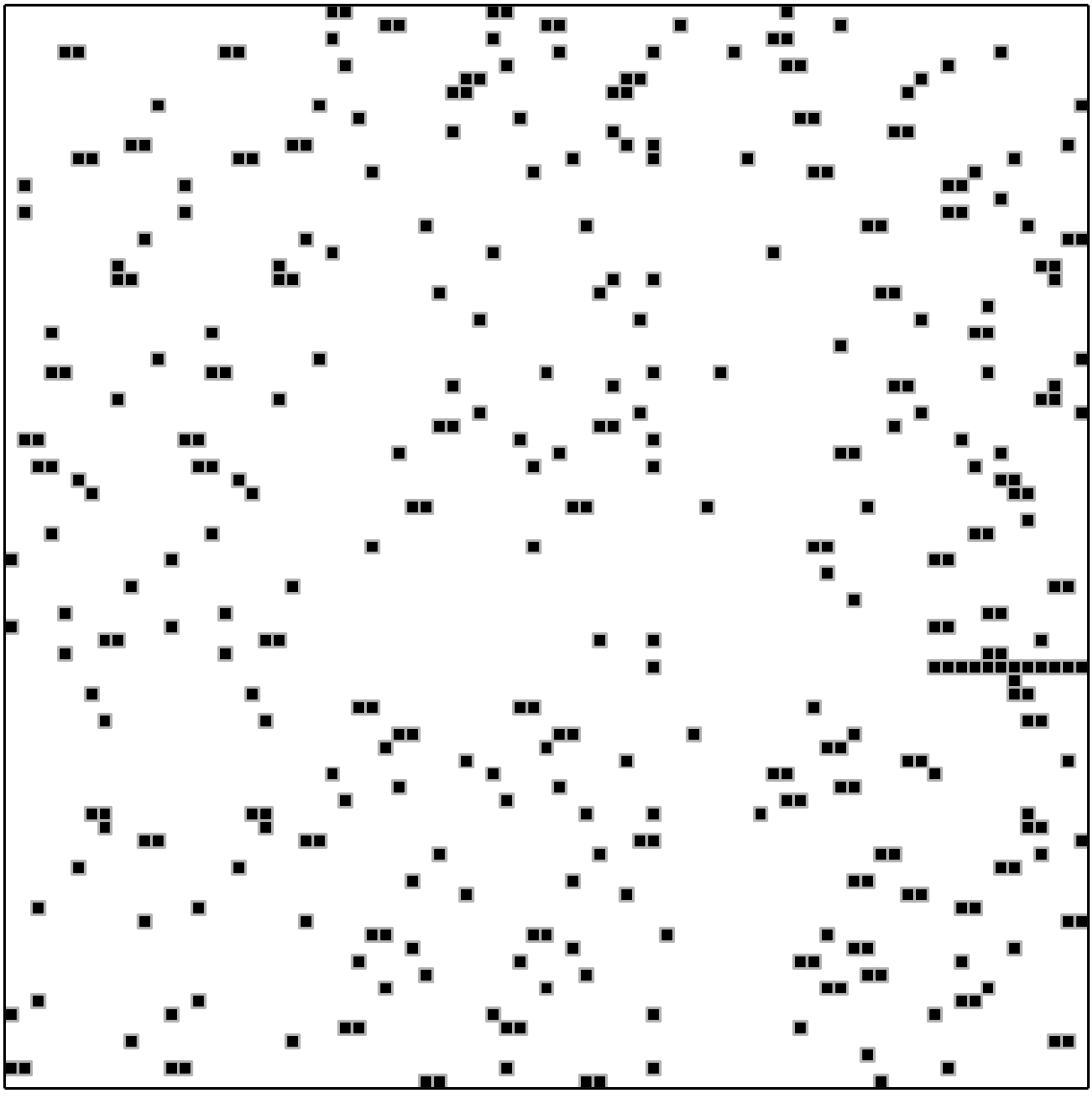

lib2_dnieper-05, cost: 24, diff: 24, explored: 21389, time: 10.00s, gap: 14

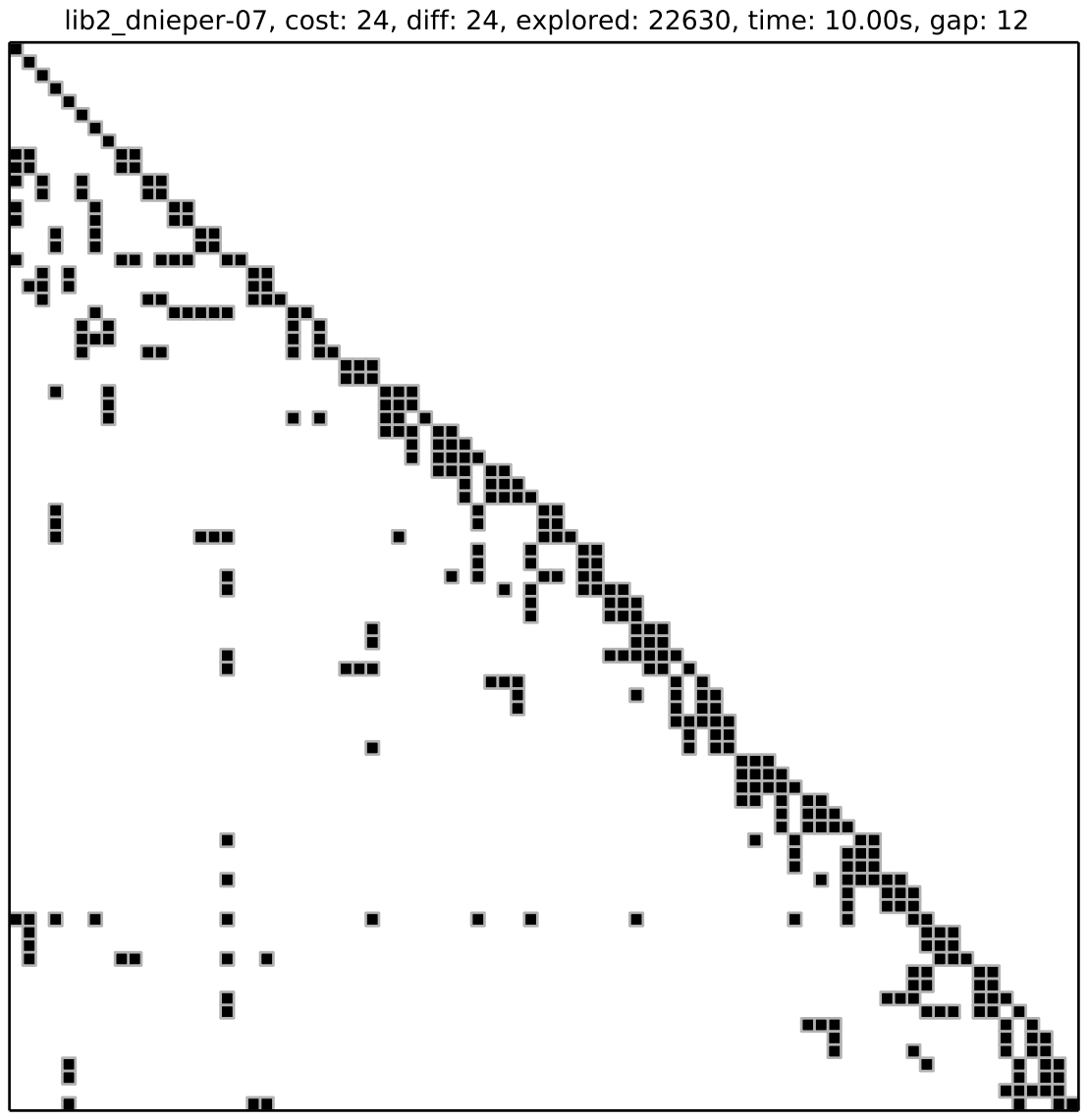
lib2_dnieper-06 81x81 (369) con: 24, var: 57



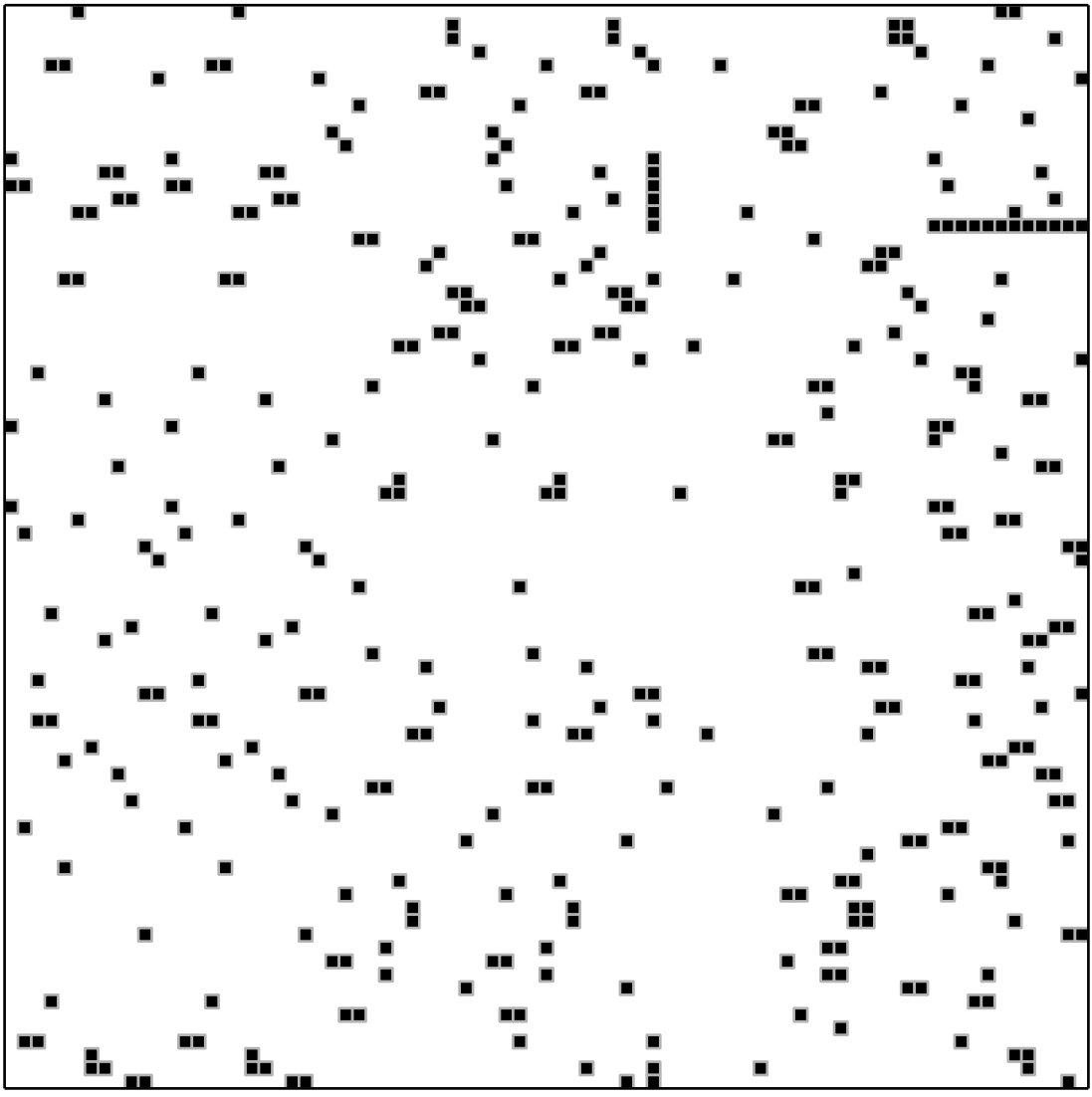

lib2_dnieper-06, cost: 25, diff: 25, explored: 23152, time: 10.00s, gap: 14

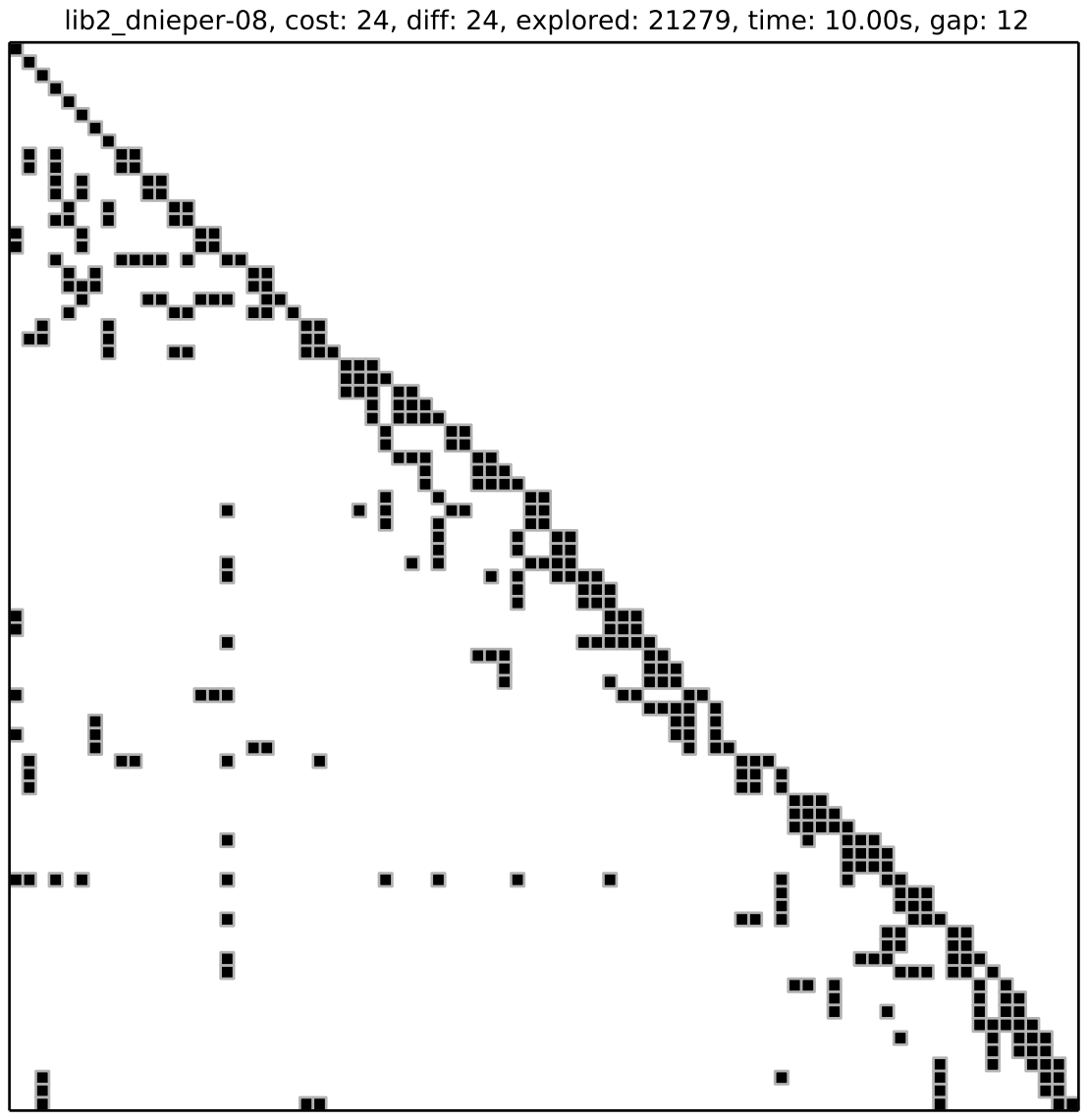
lib2_dnieper-07 81x81 (369) con: 24, var: 57




lib2_dnieper-07, cost: 24, diff: 24, explored: 22630, time: 10.00s, gap: 12

lib2_dnieper-08 81x81 (369) con: 24, var: 57

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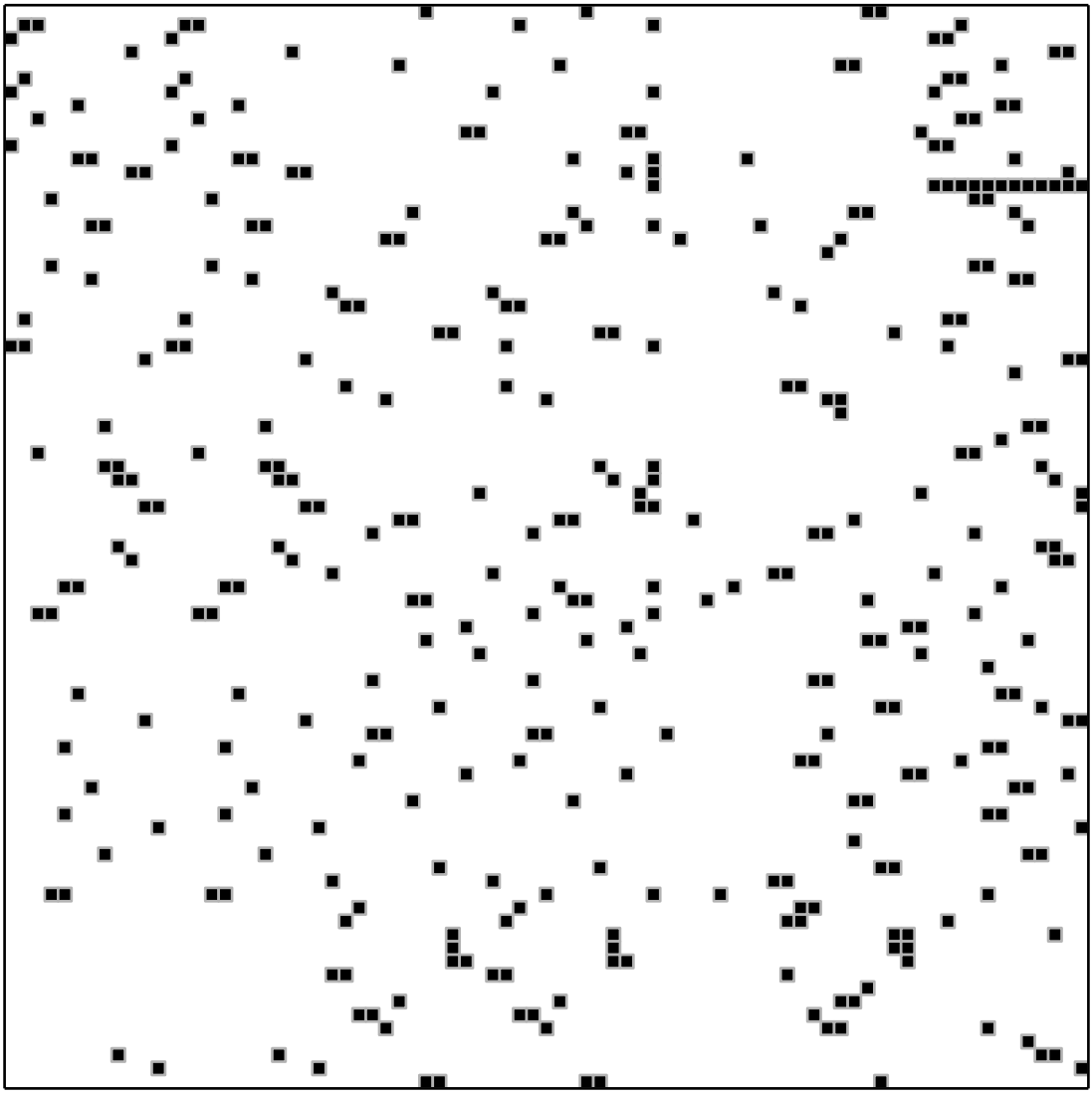
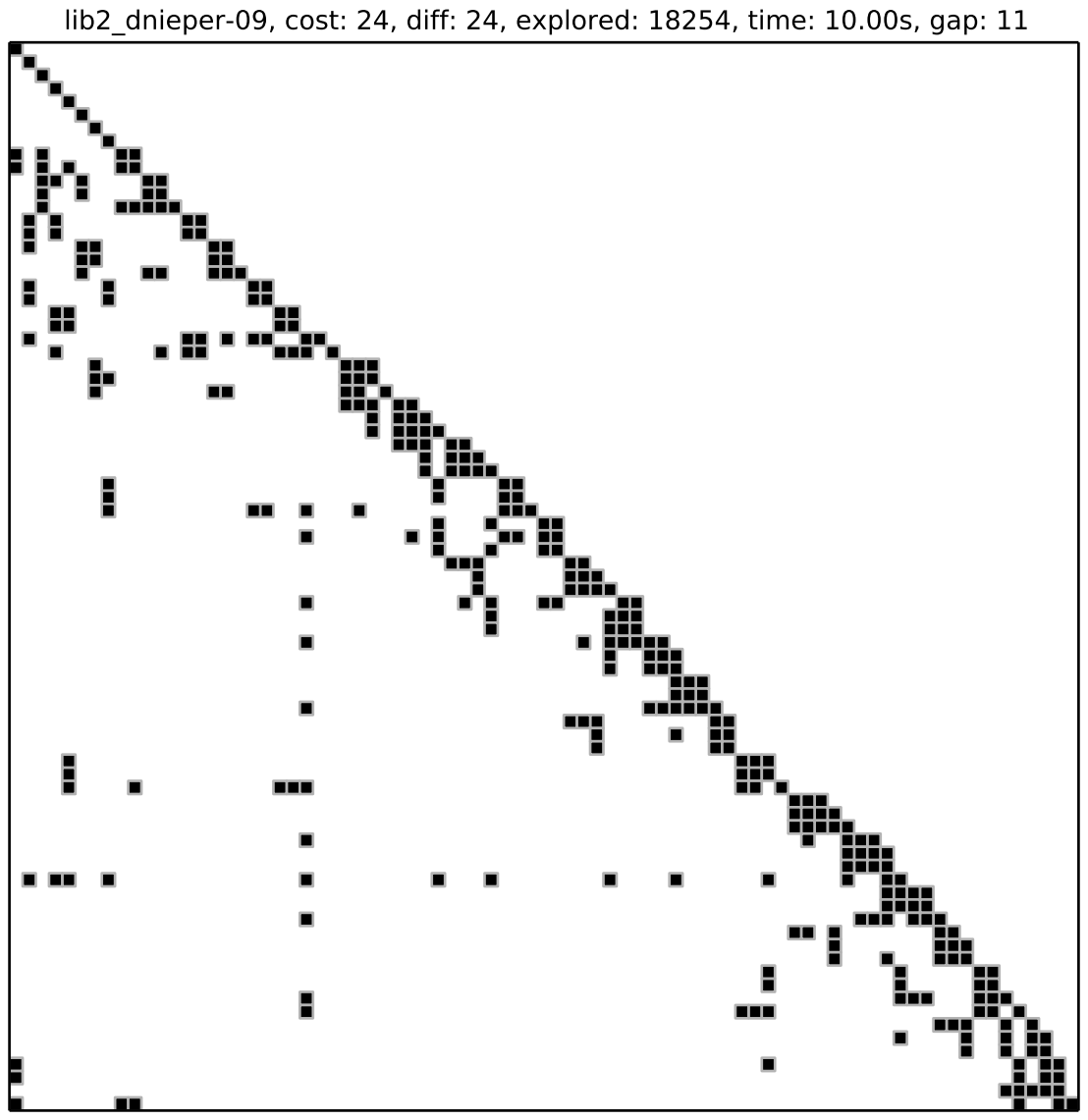
lib2_dnieper-09 81x81 (369) con: 24, var: 57

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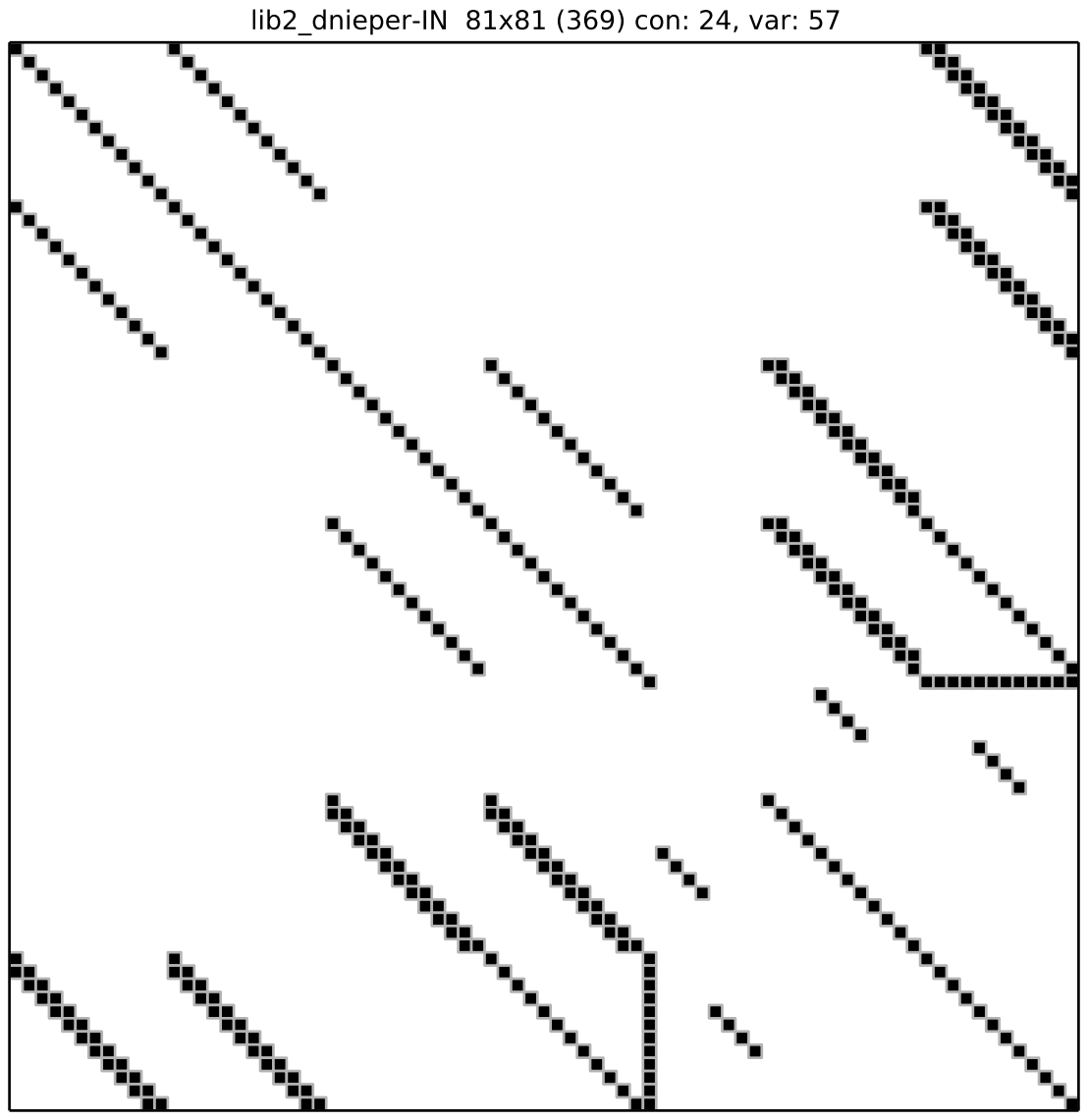
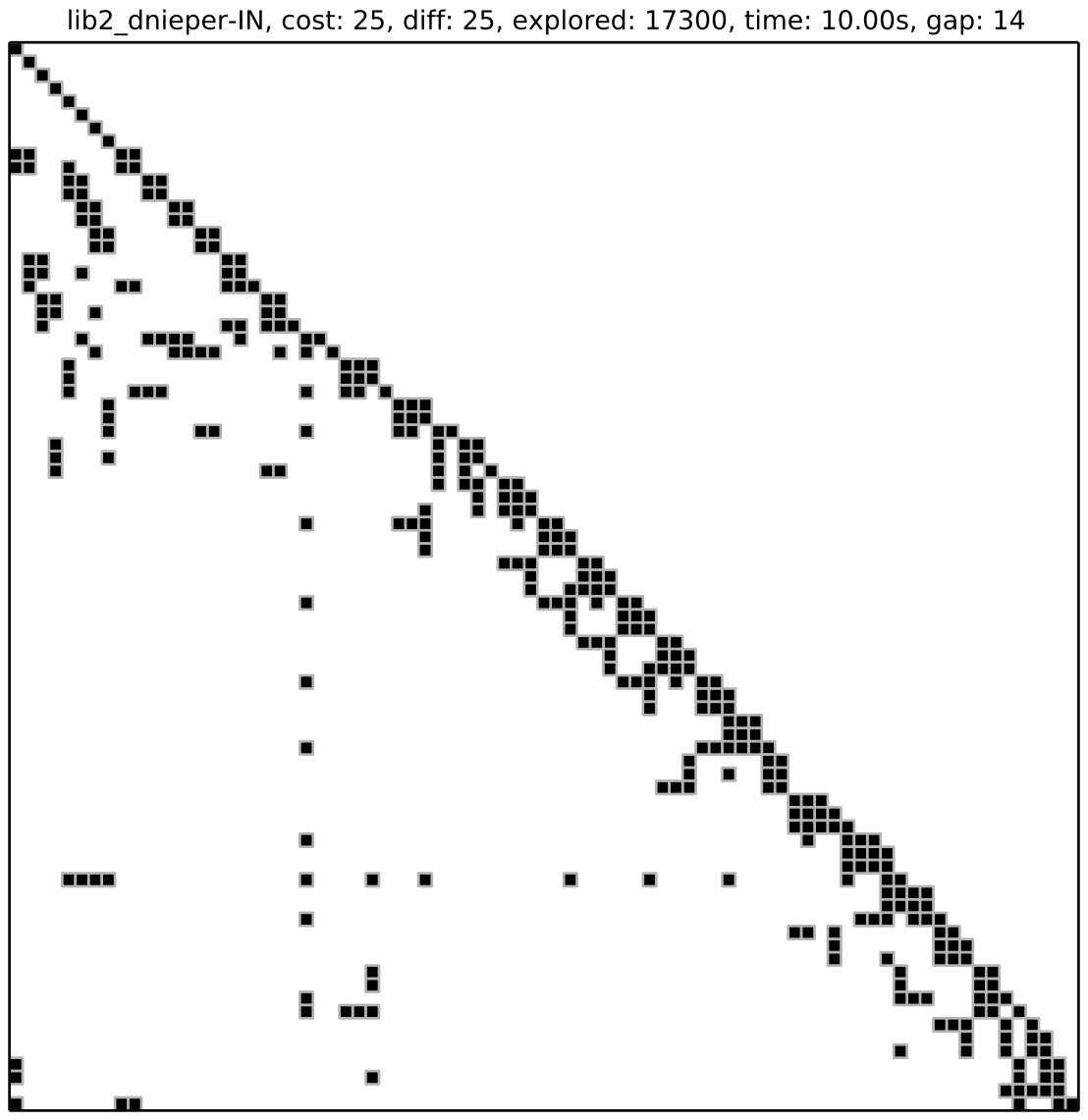

lib2_dnieper-IN 81x81 (369) con: 24, var: 57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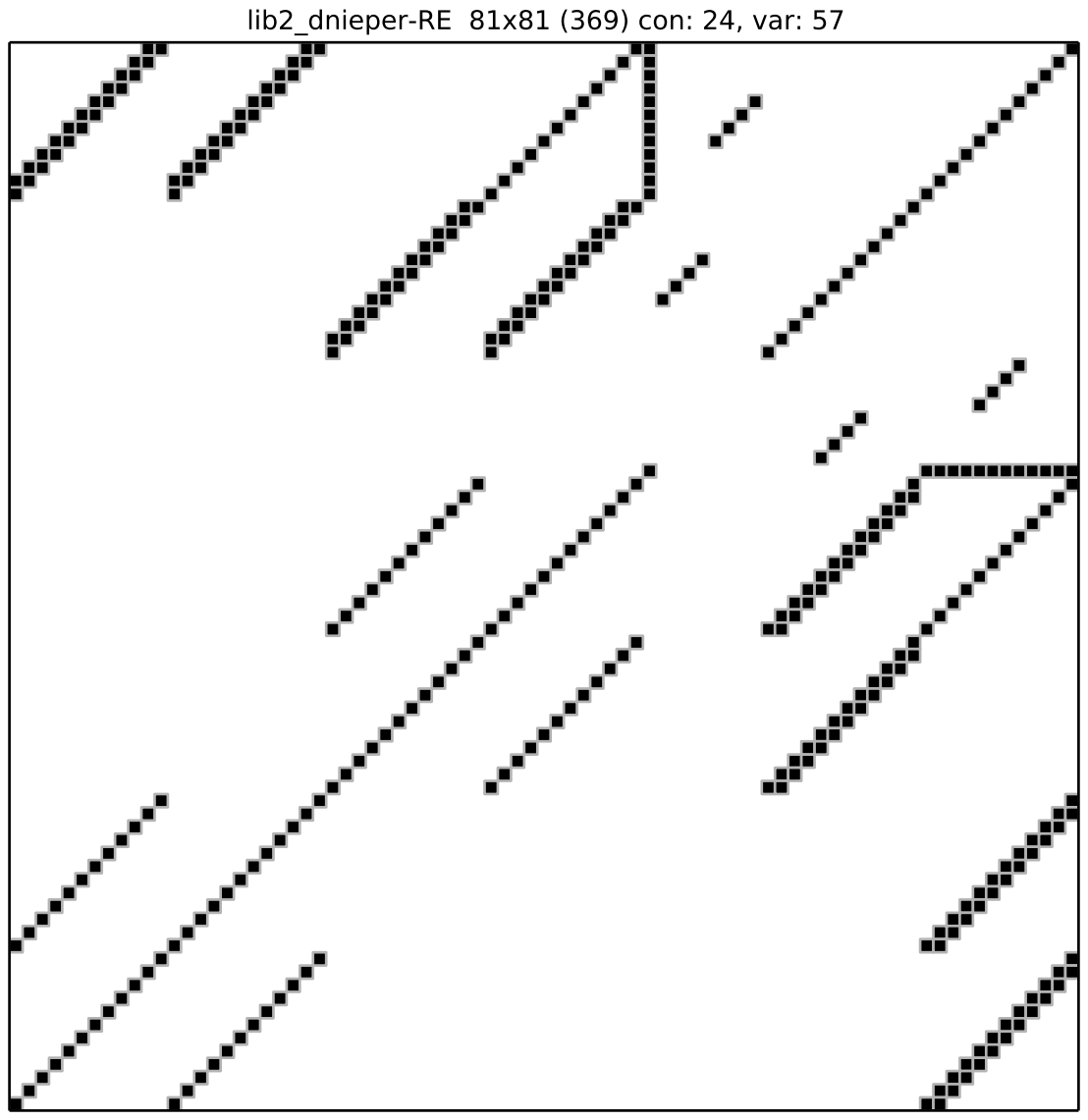
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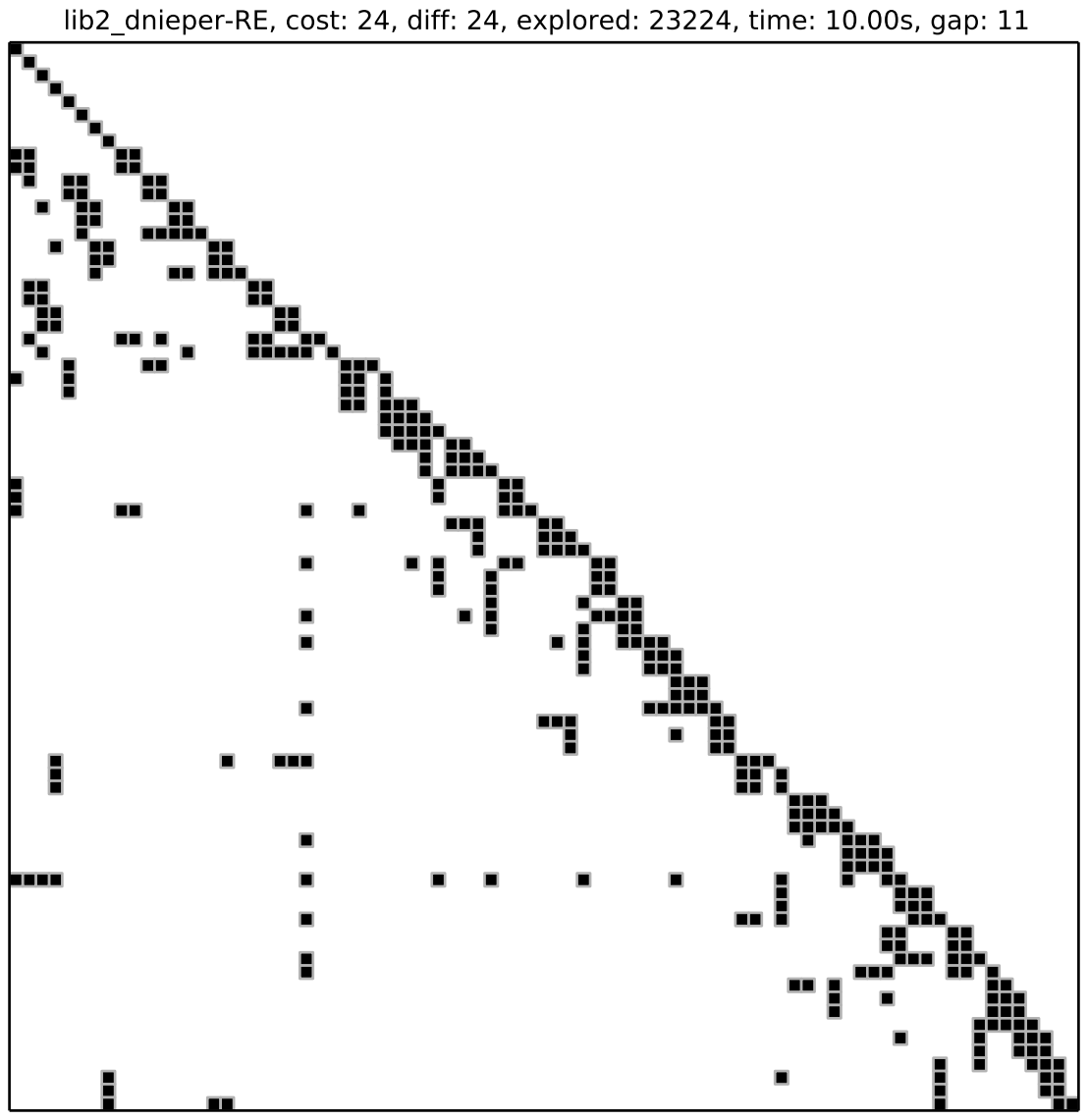
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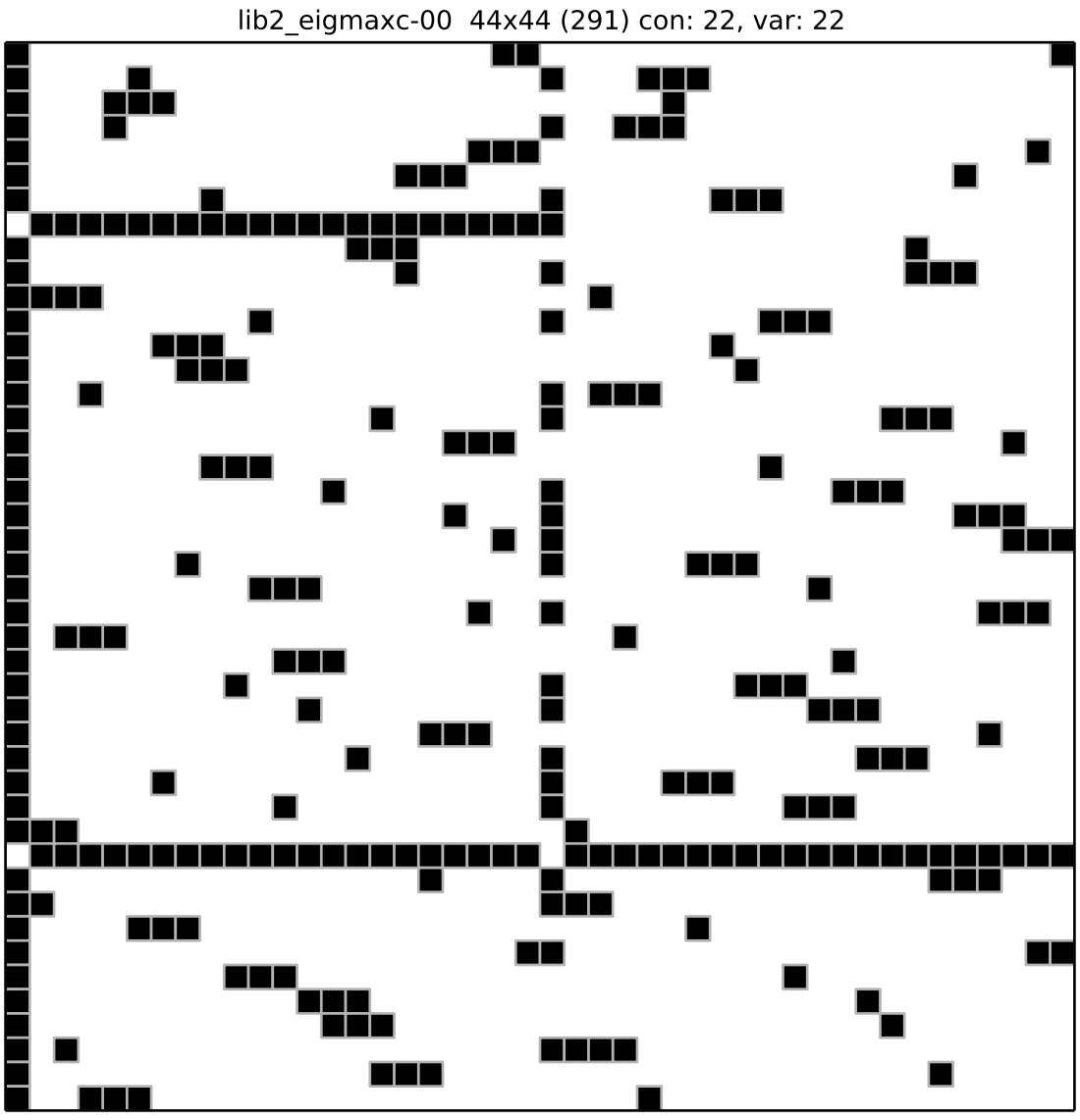
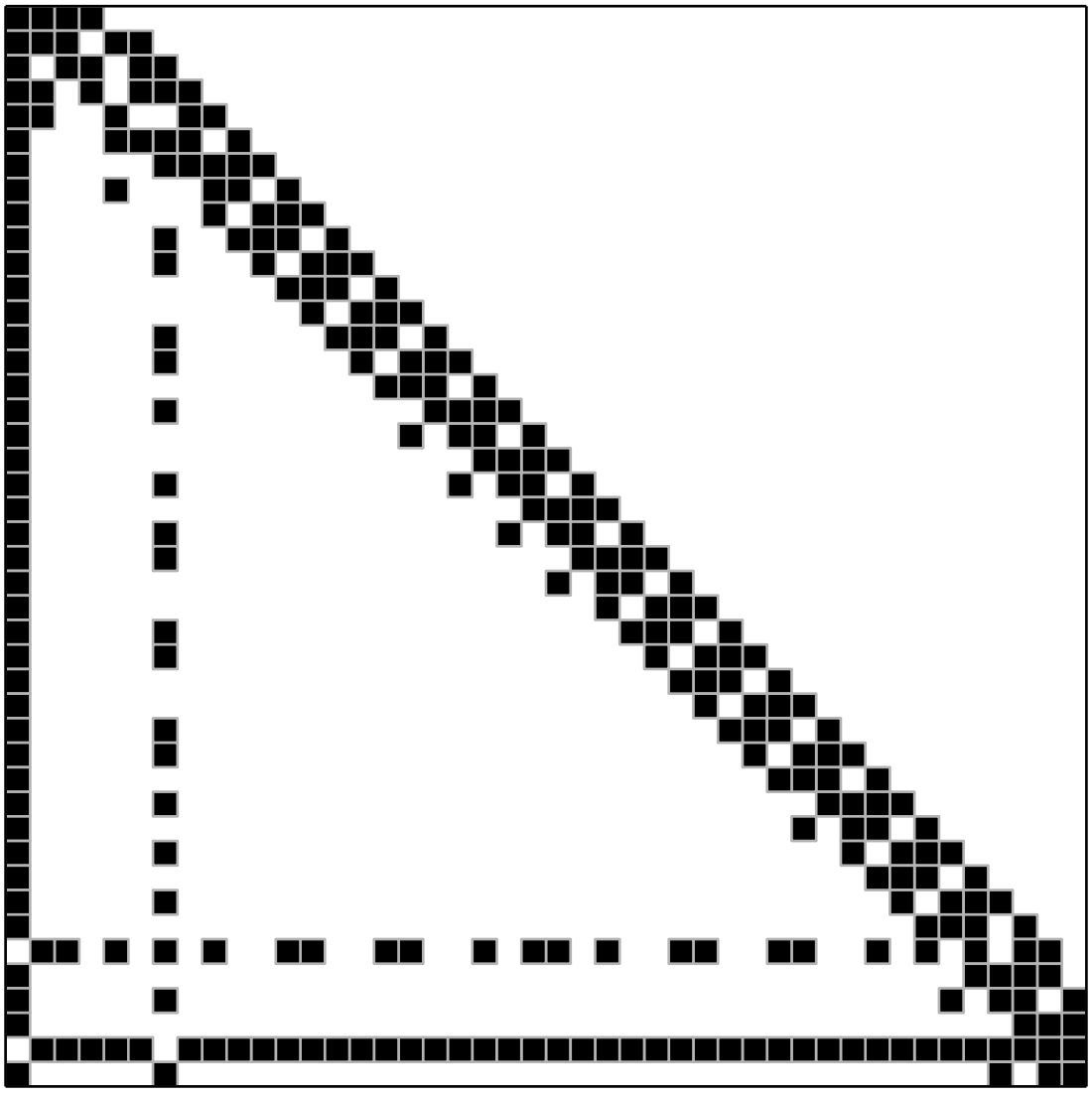

lib2_eigmaxc-00 44x44 (291) con: 22, var: 22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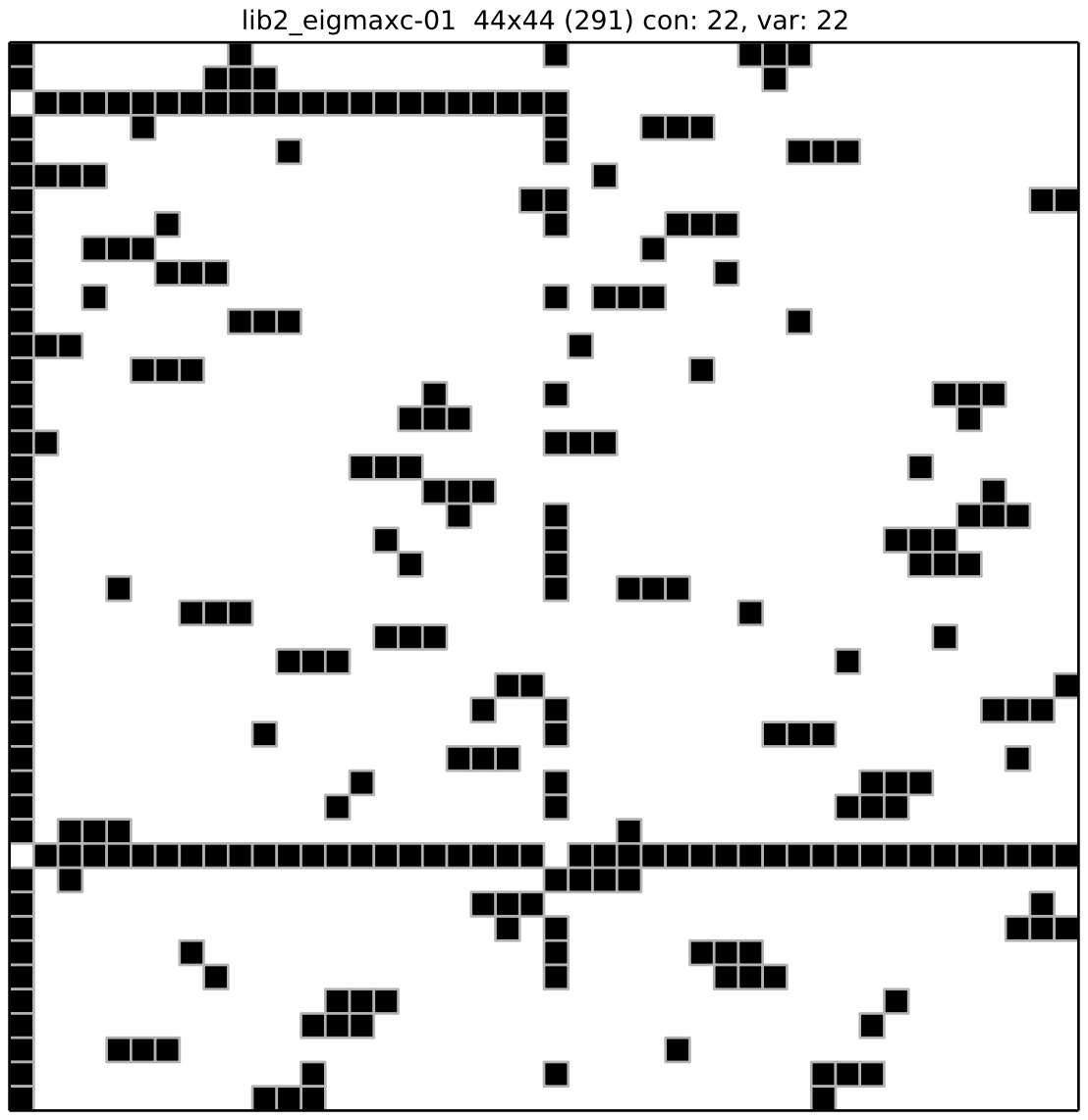
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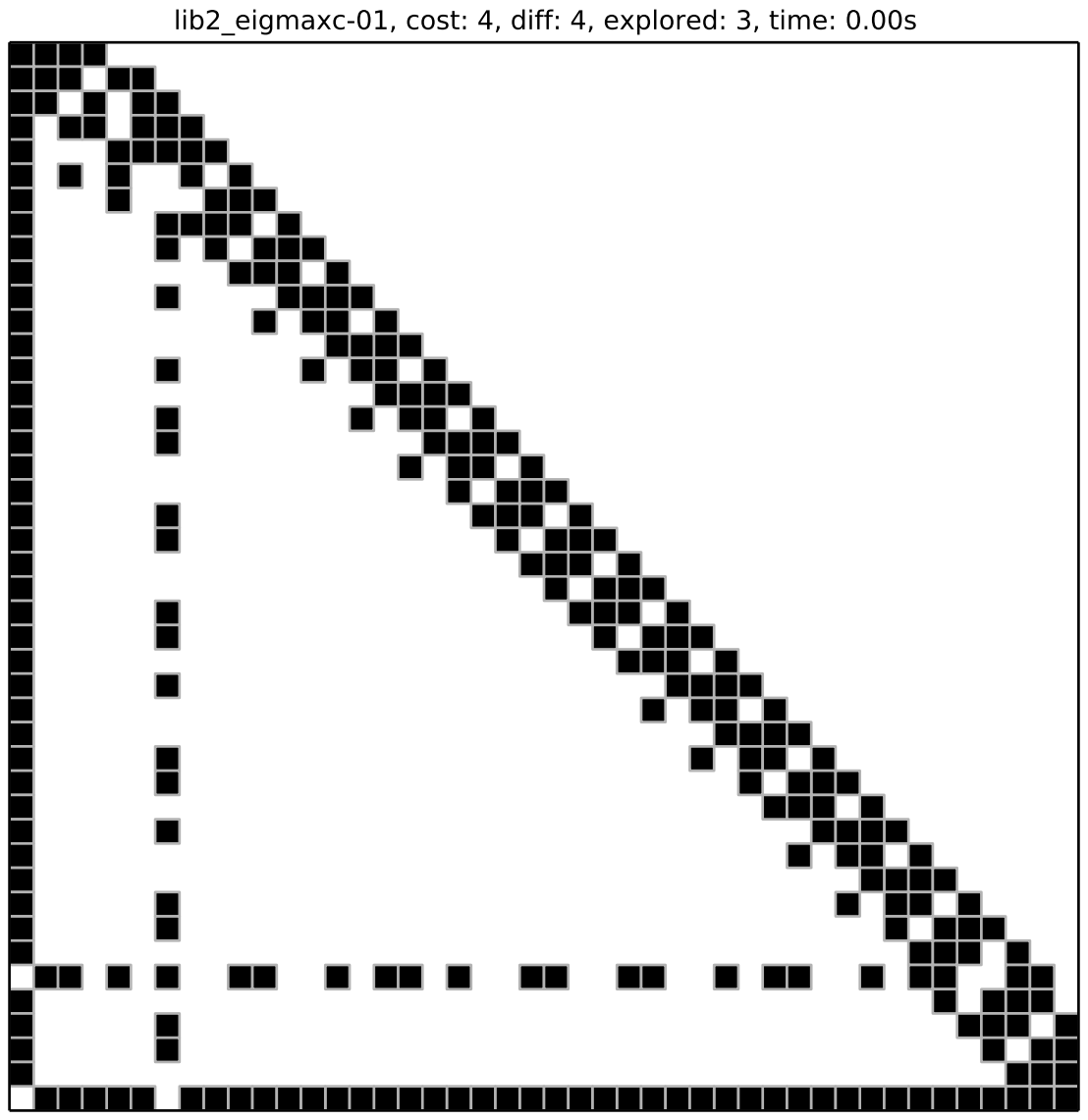
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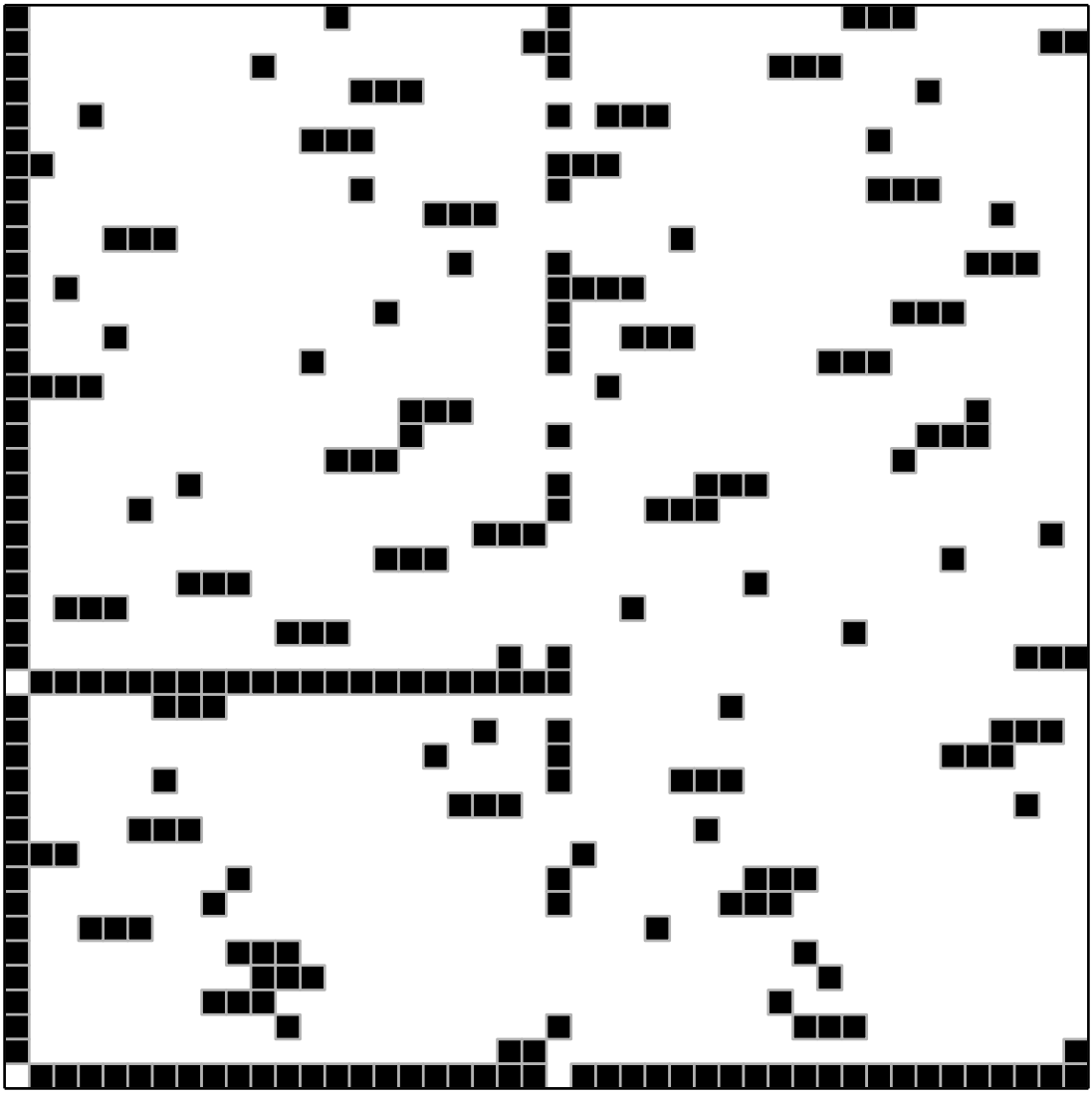
lib2_eigmaxc-02 44x44 (291) con: 22, var: 22



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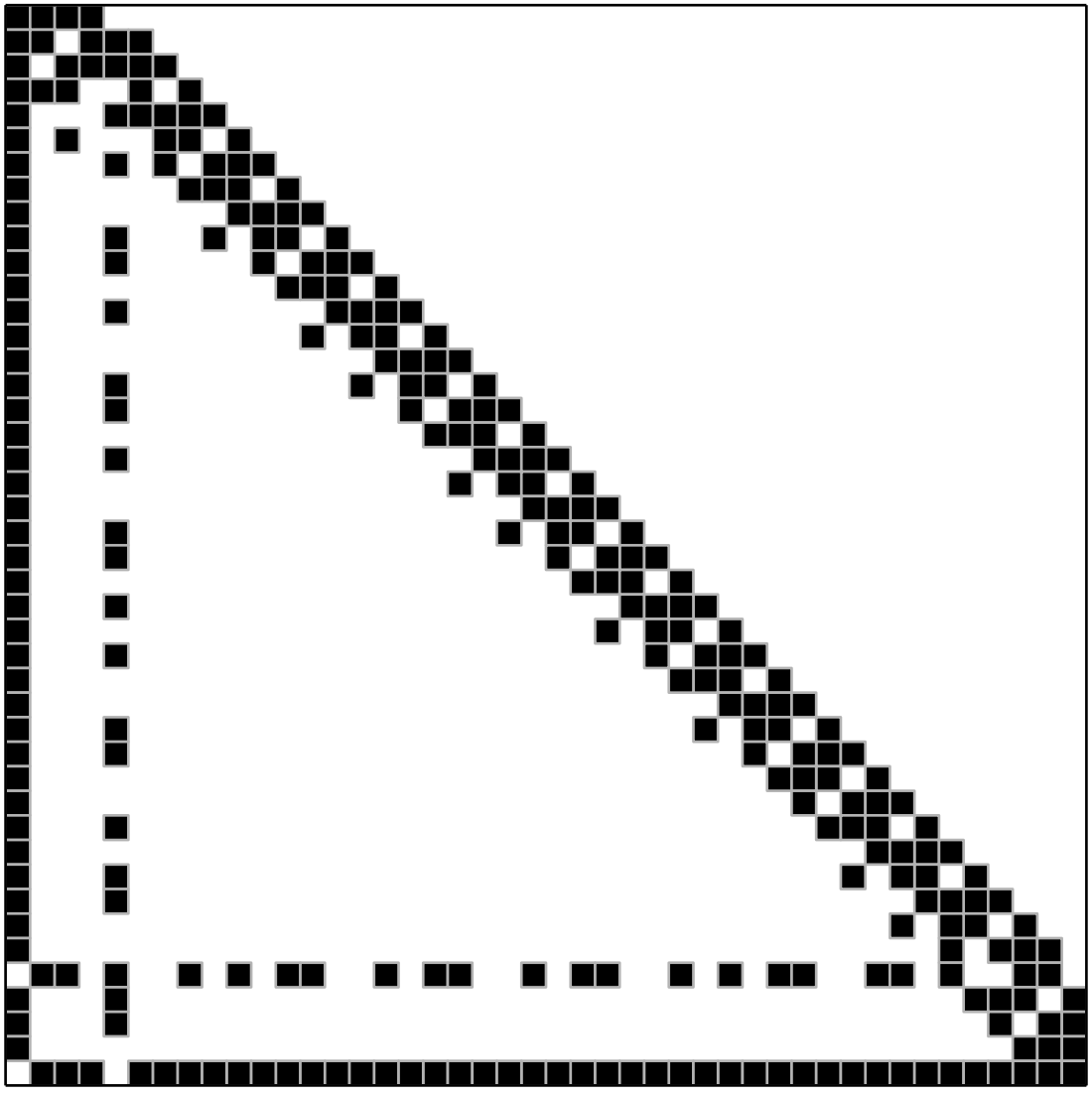

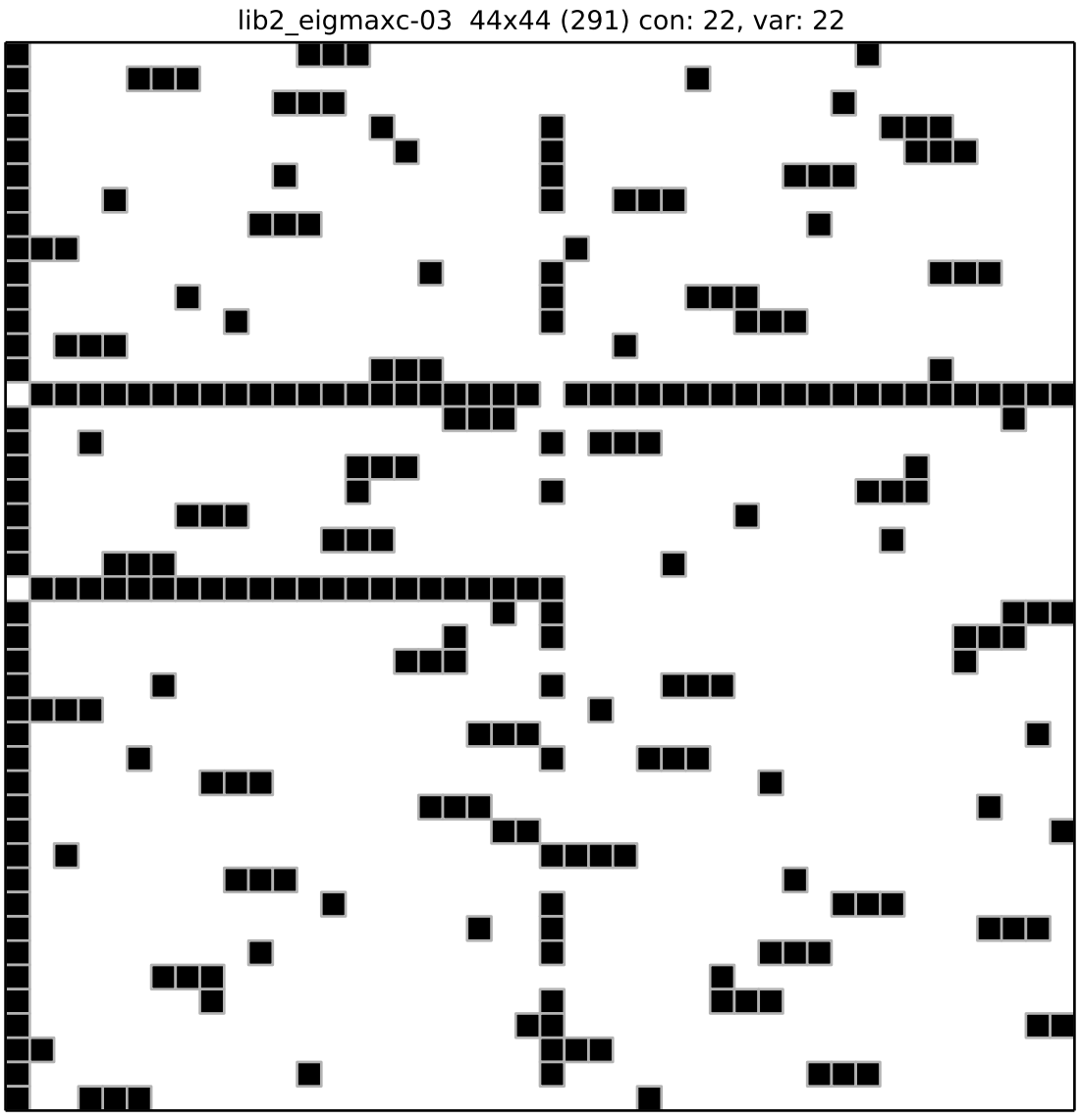
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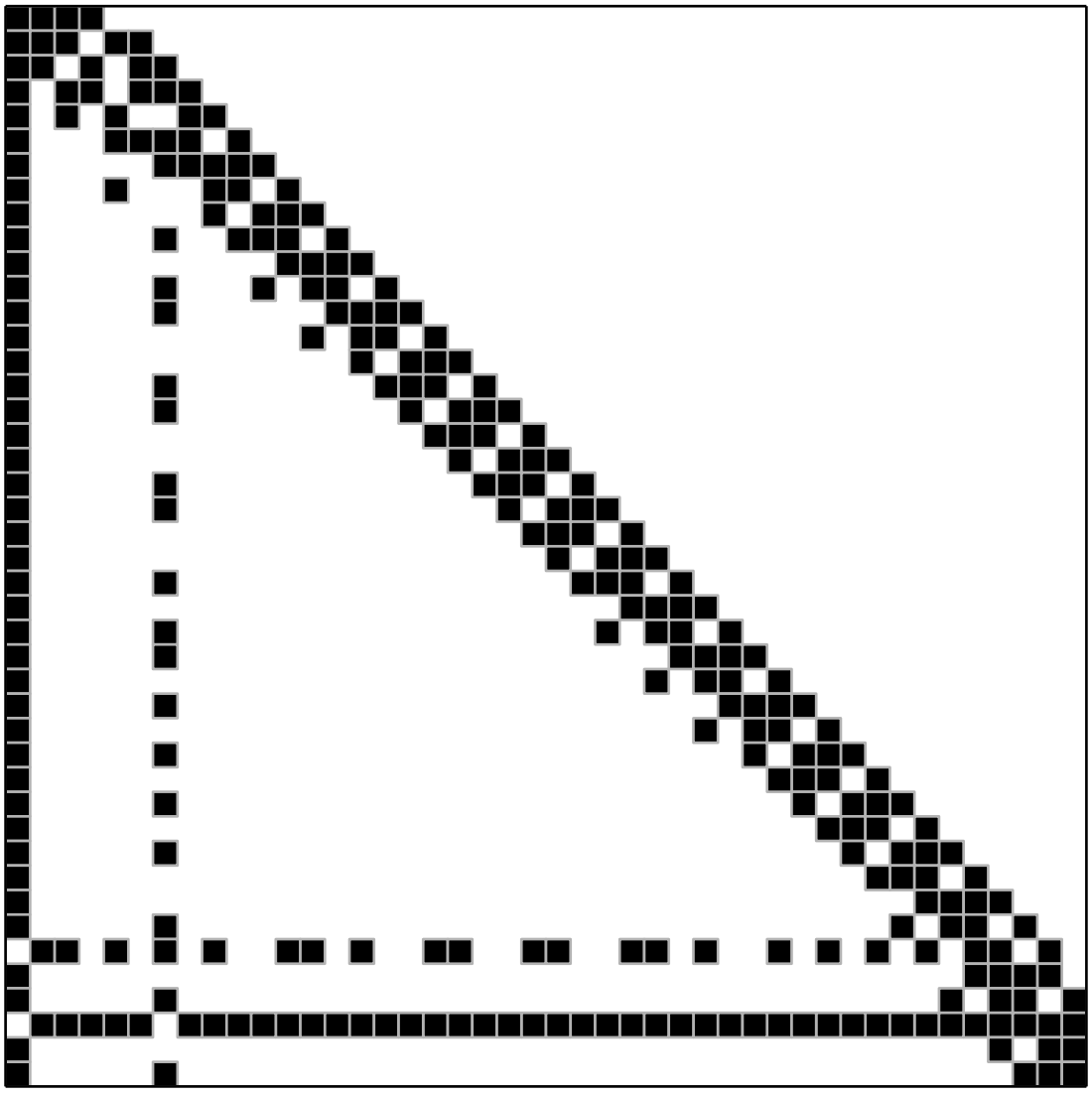
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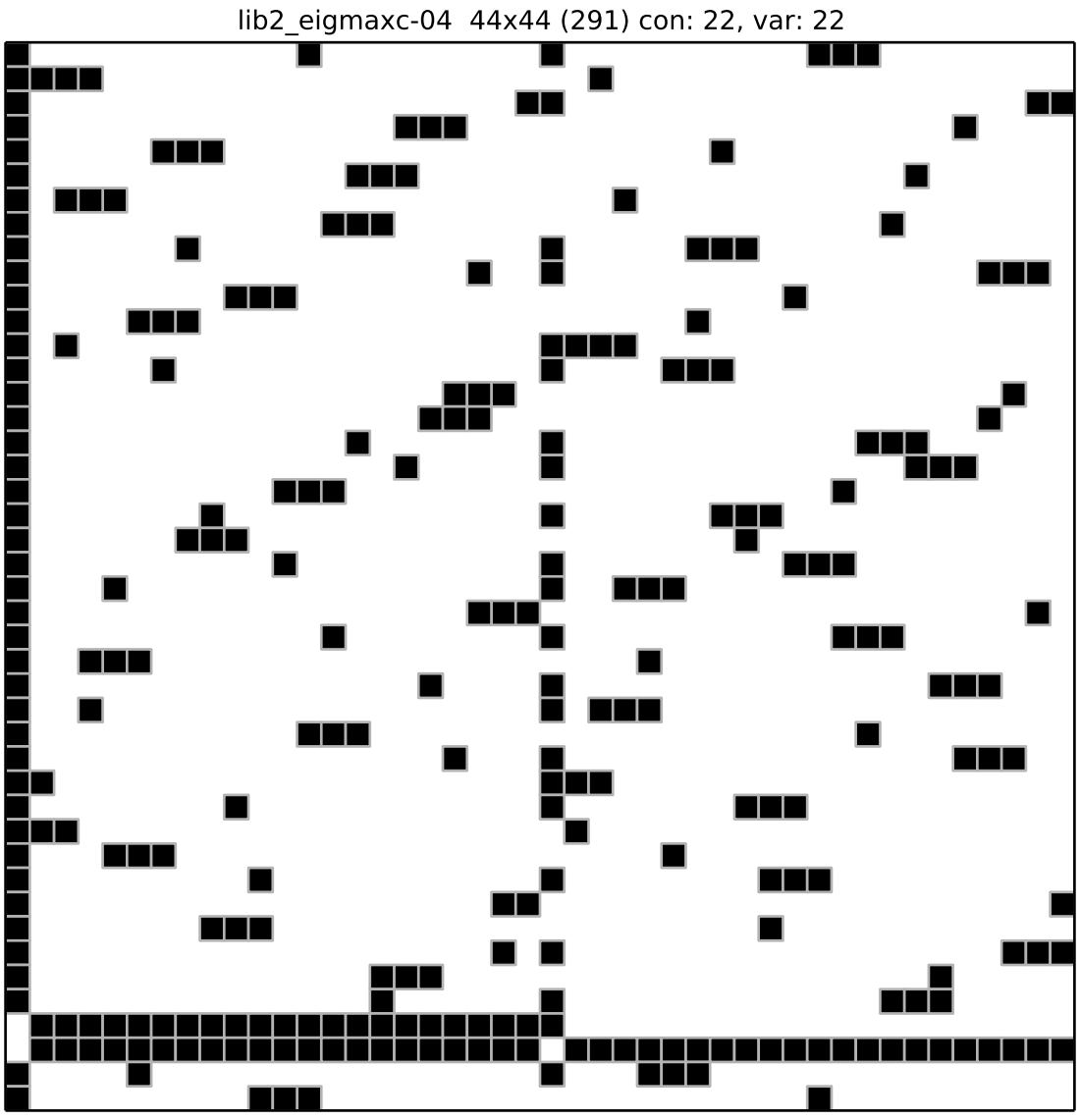
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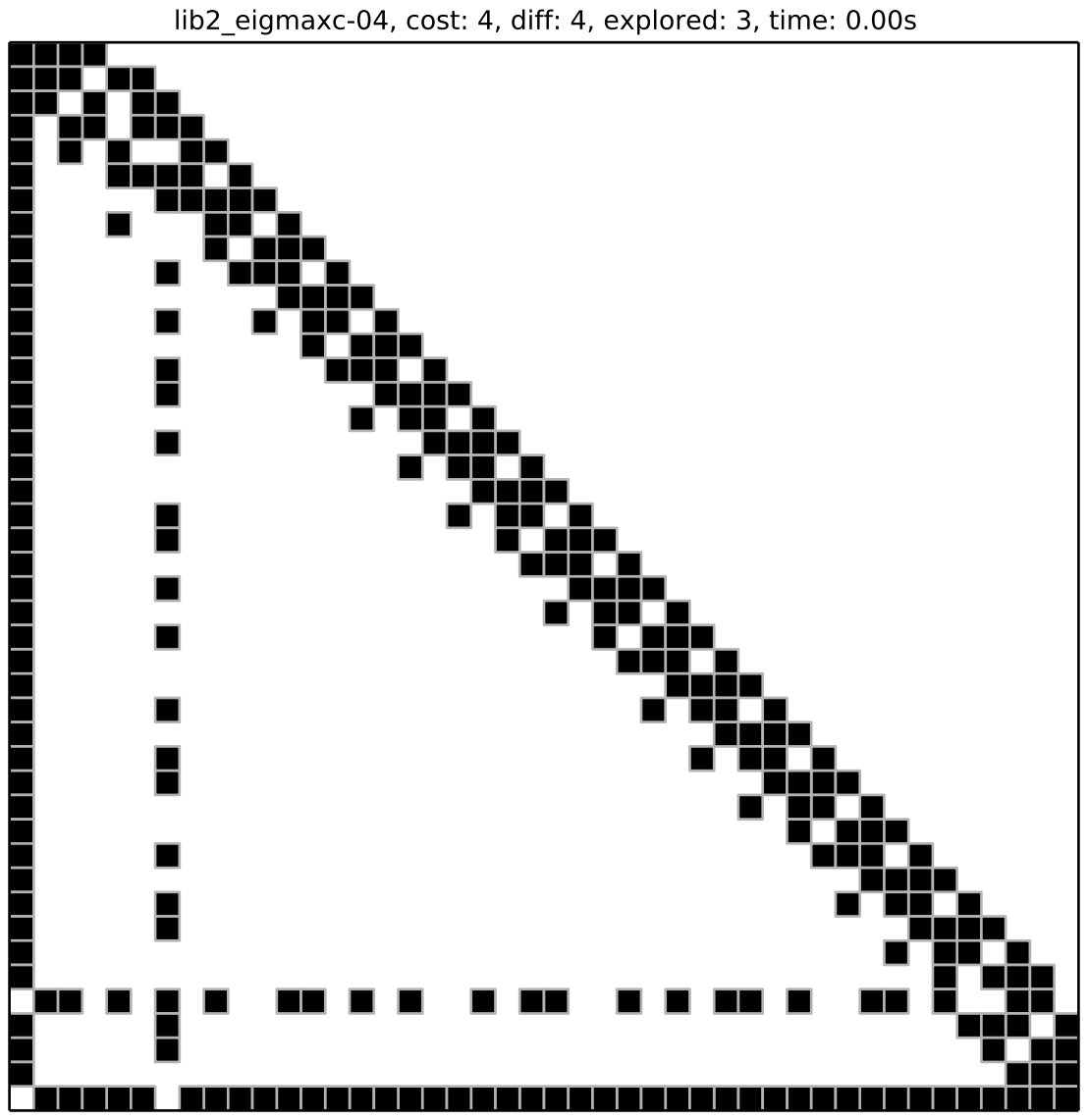
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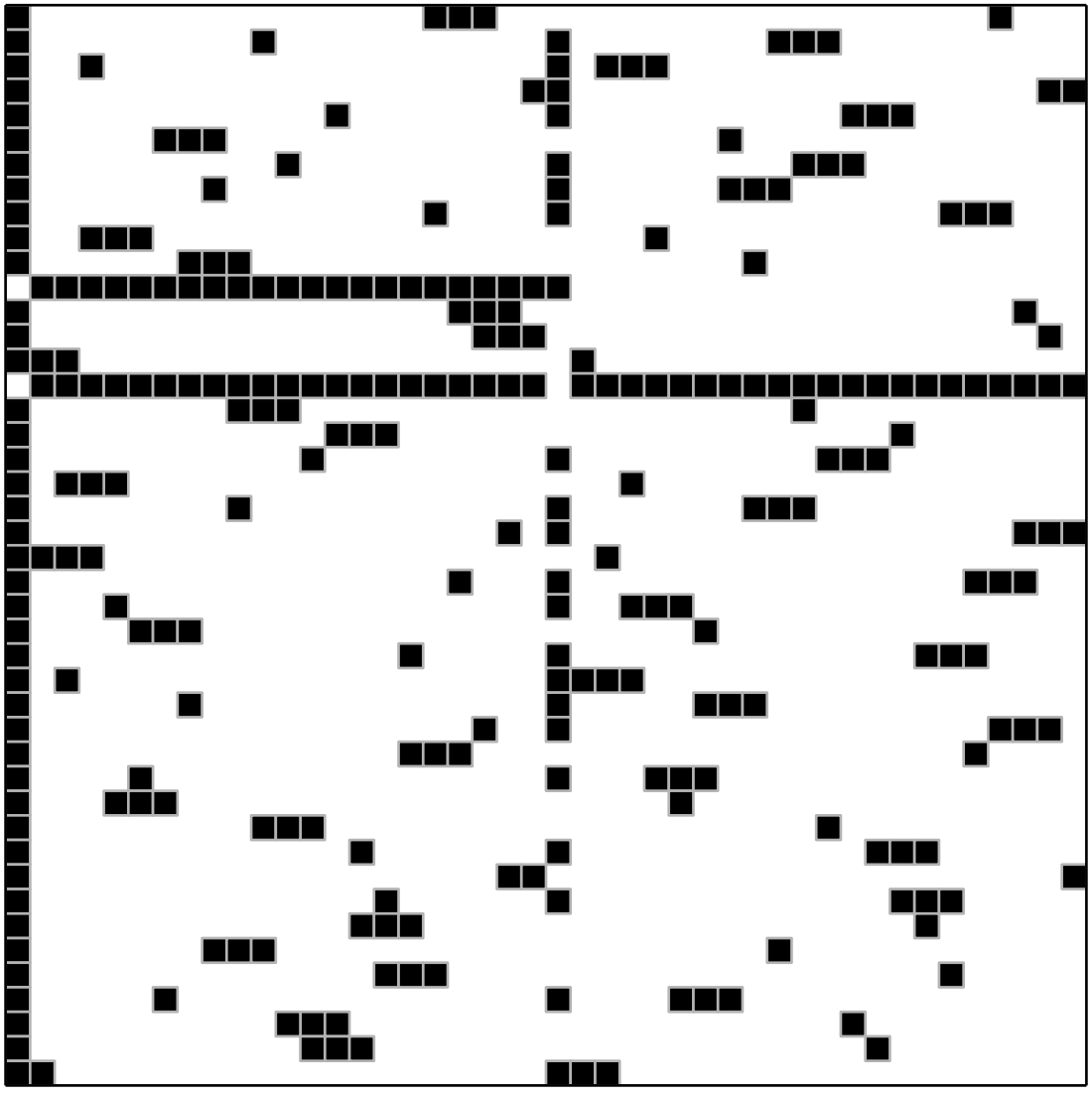
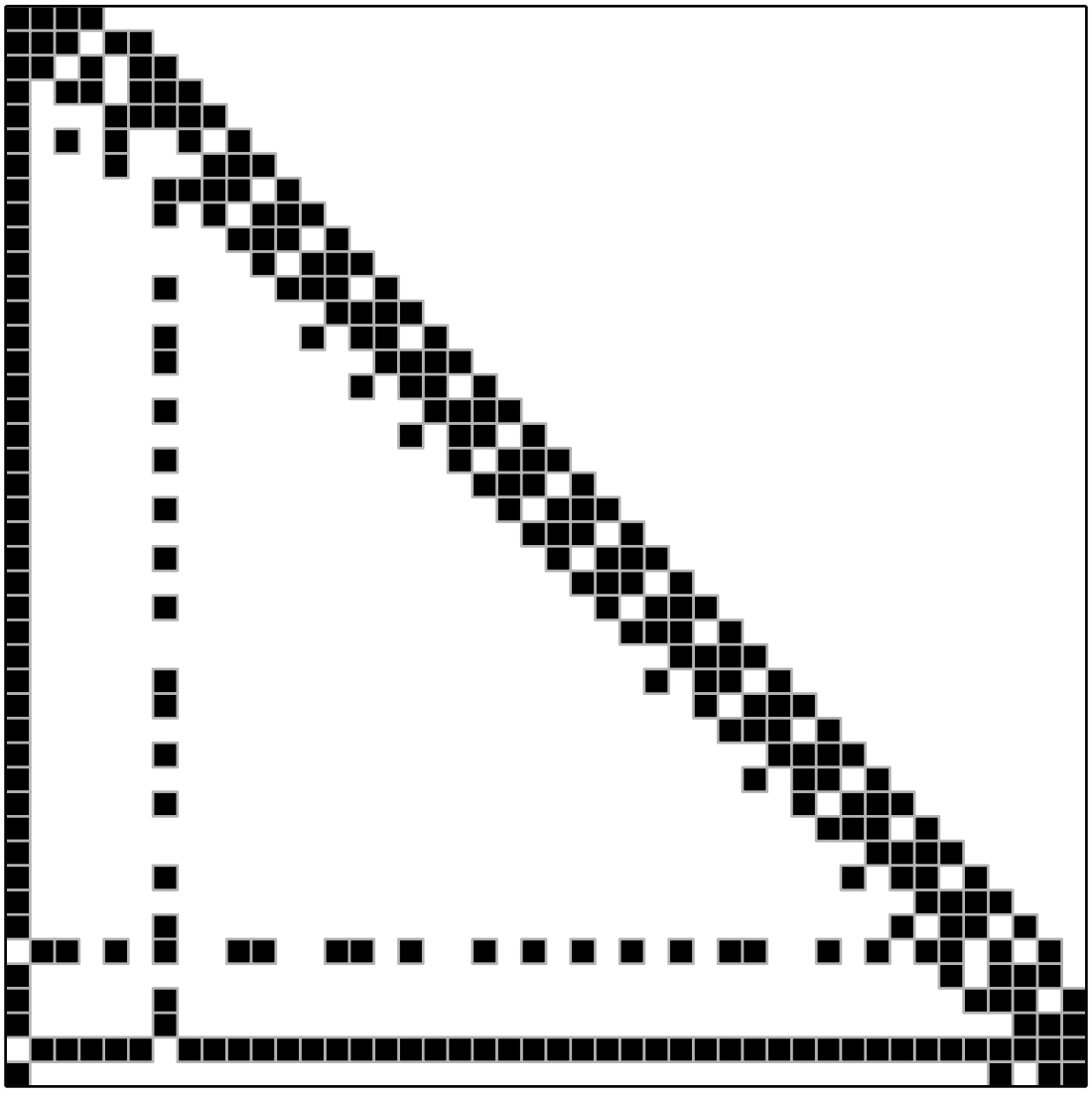
lib2_eigmaxc-05 44x44 (291) con: 22, var: 22

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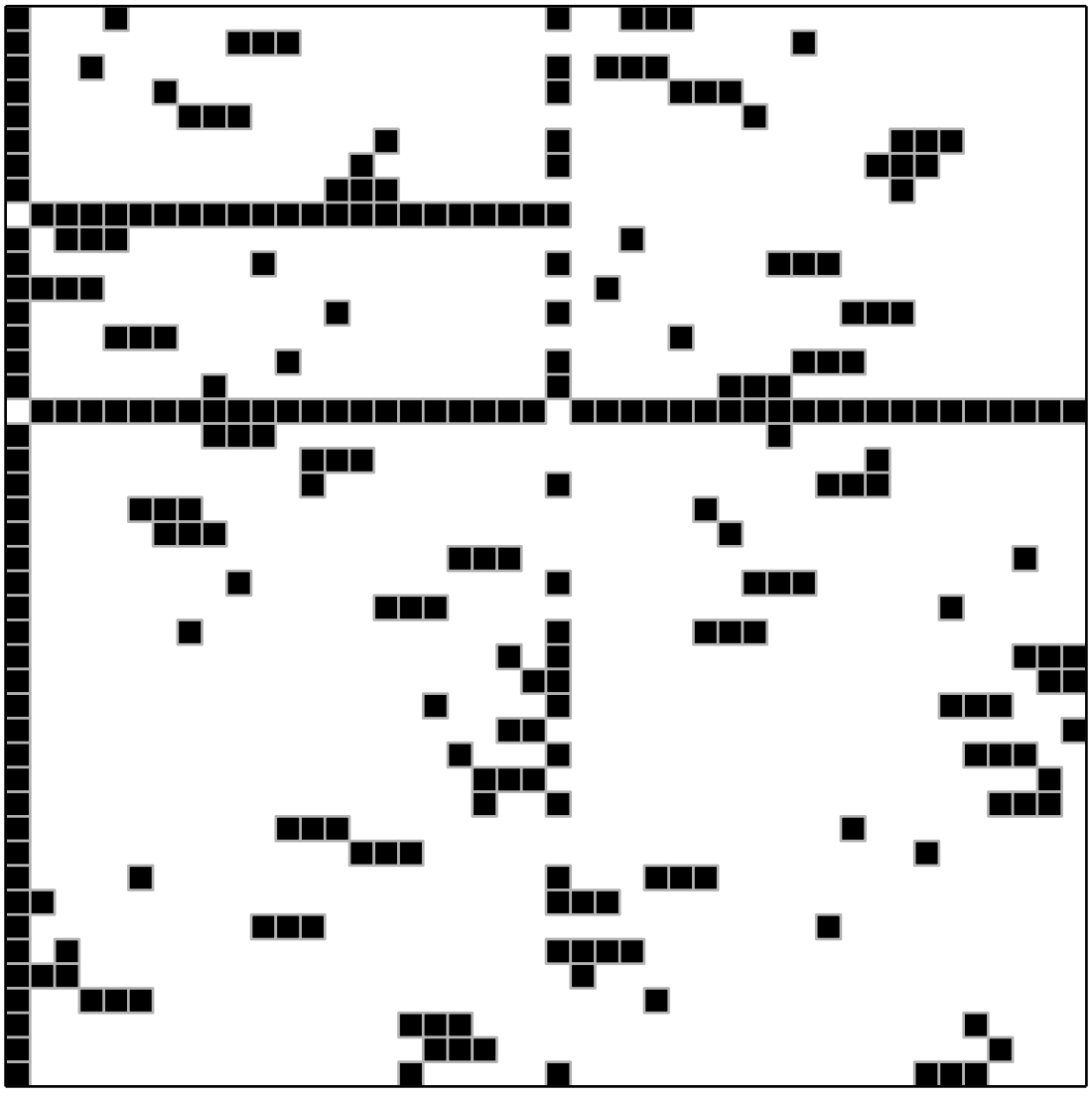
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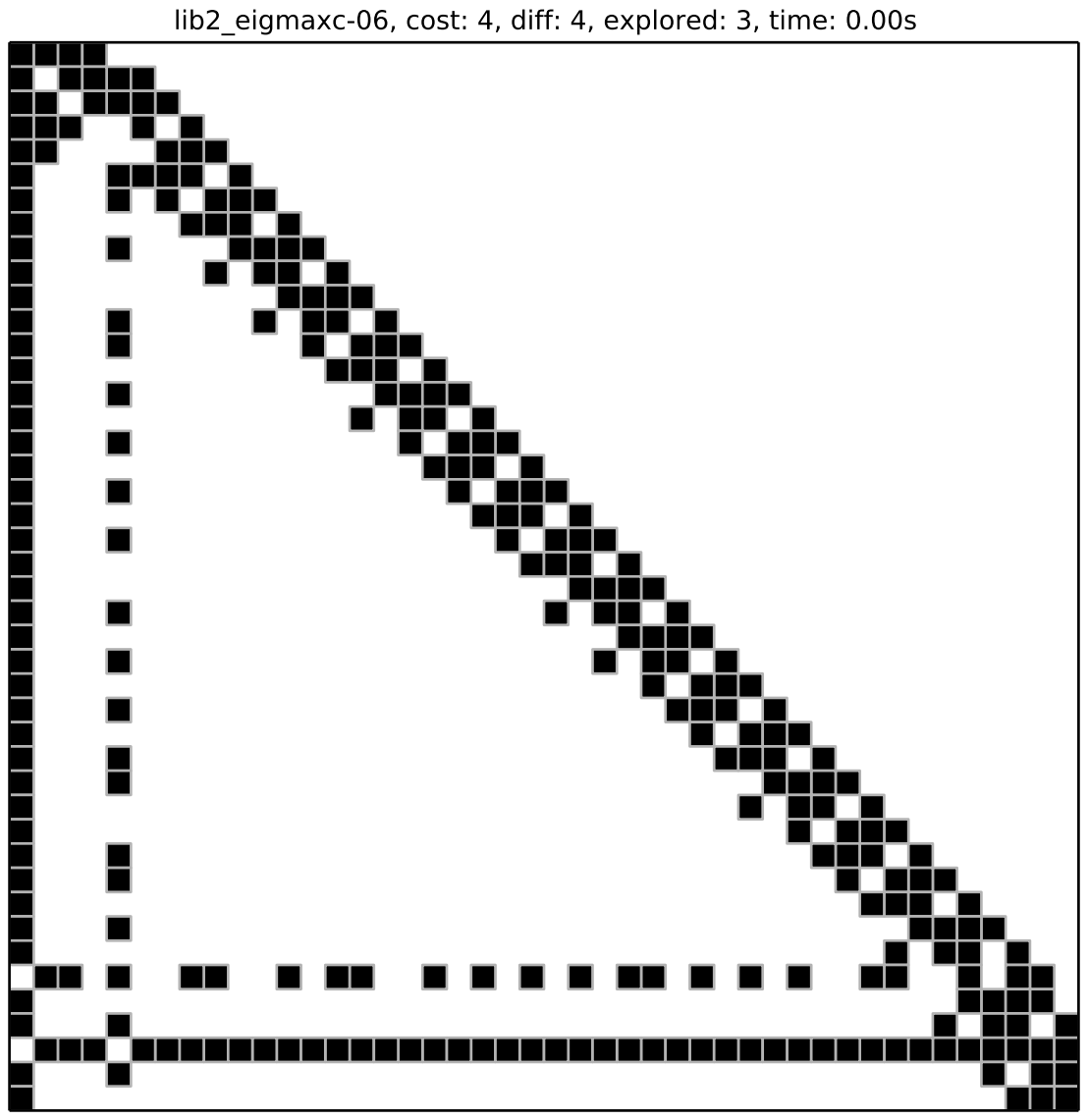
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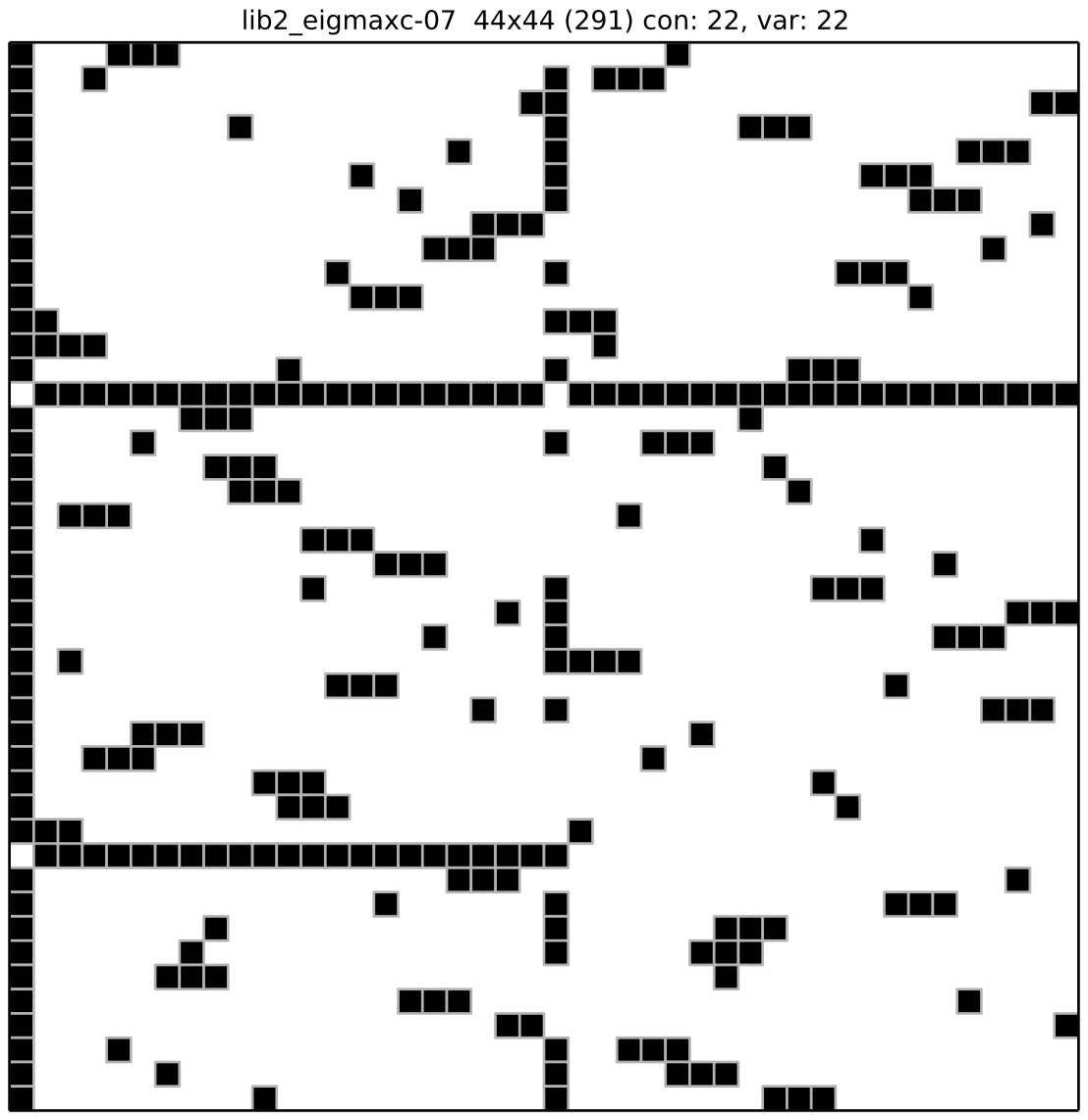
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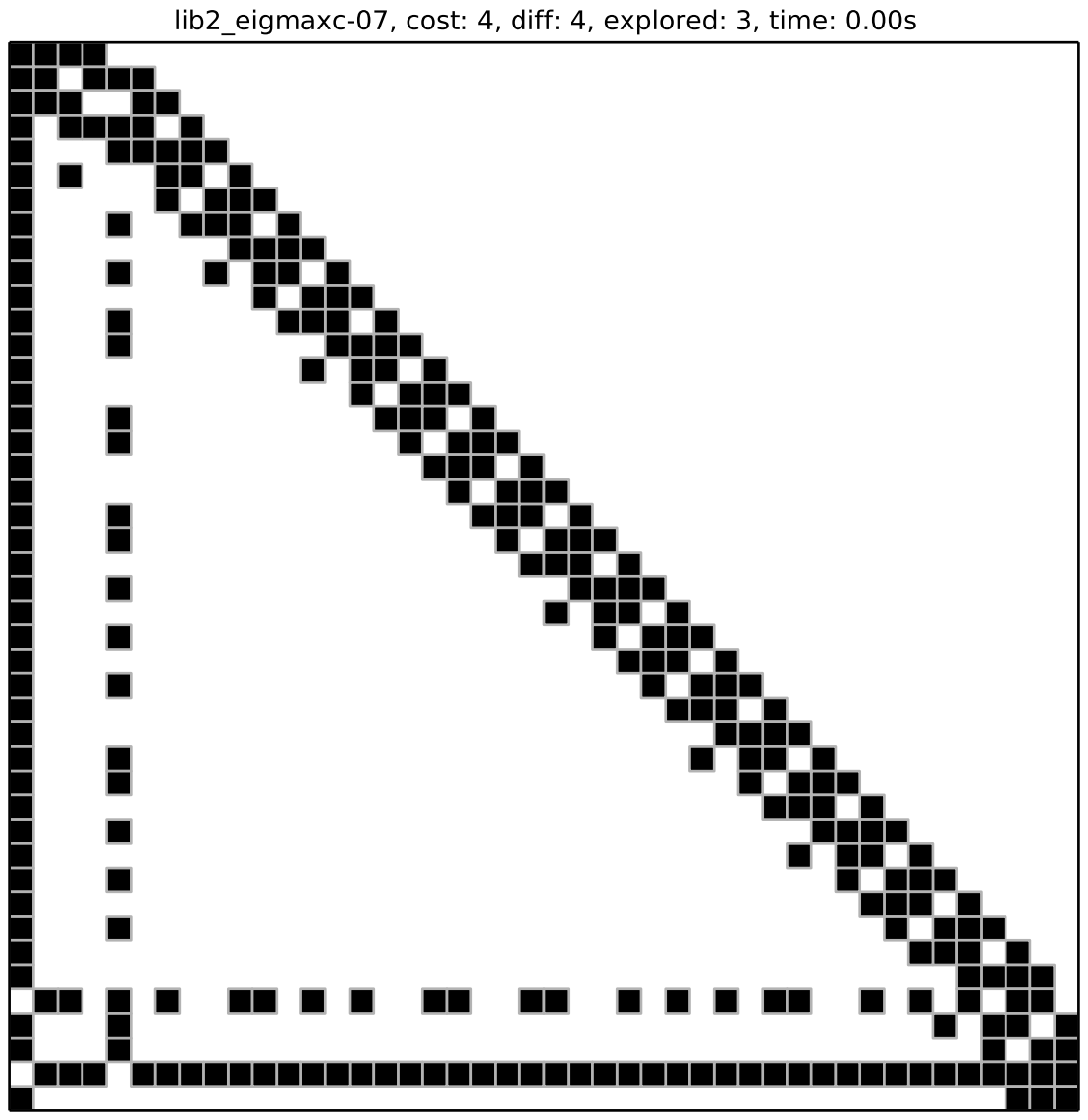
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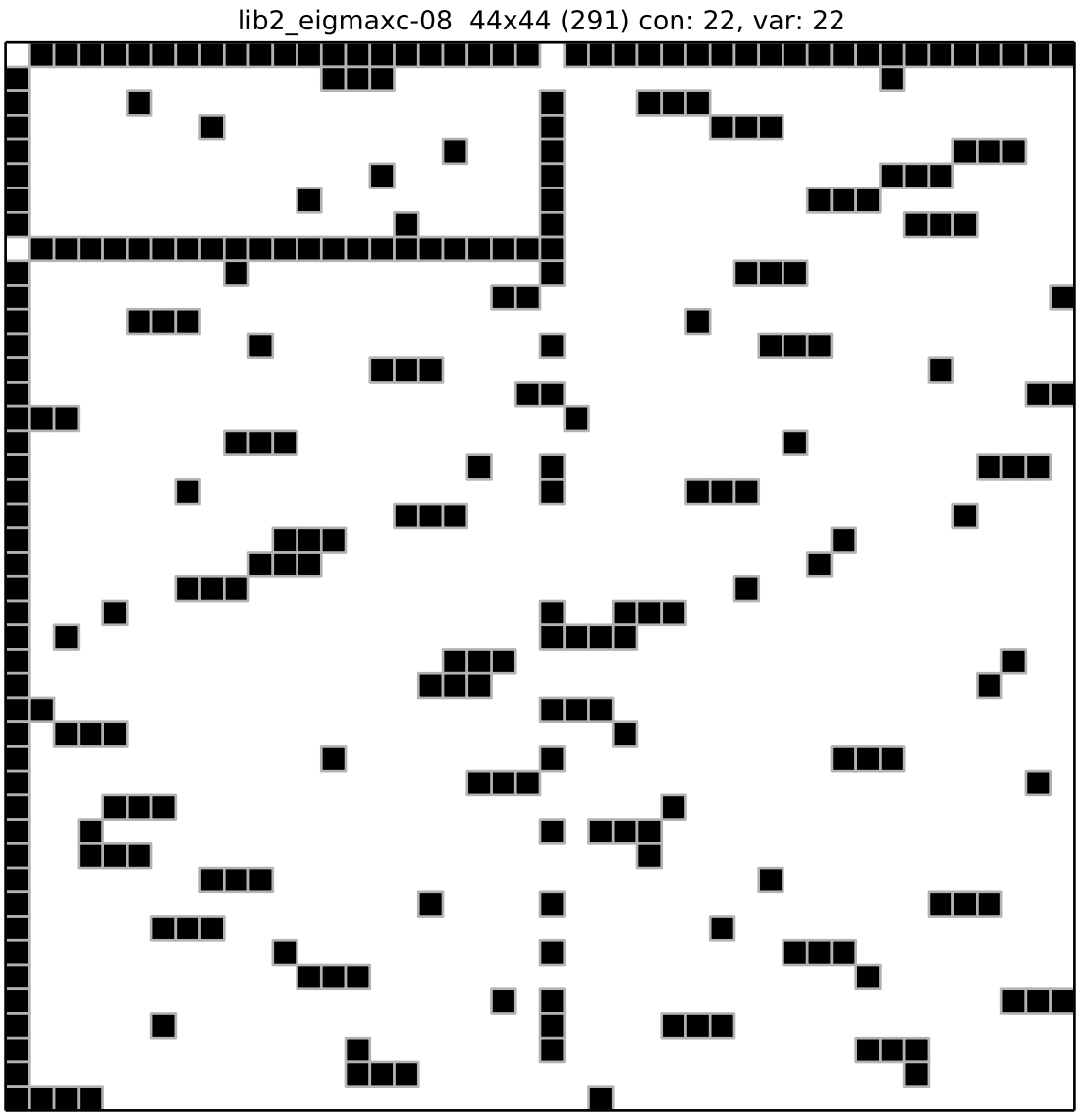
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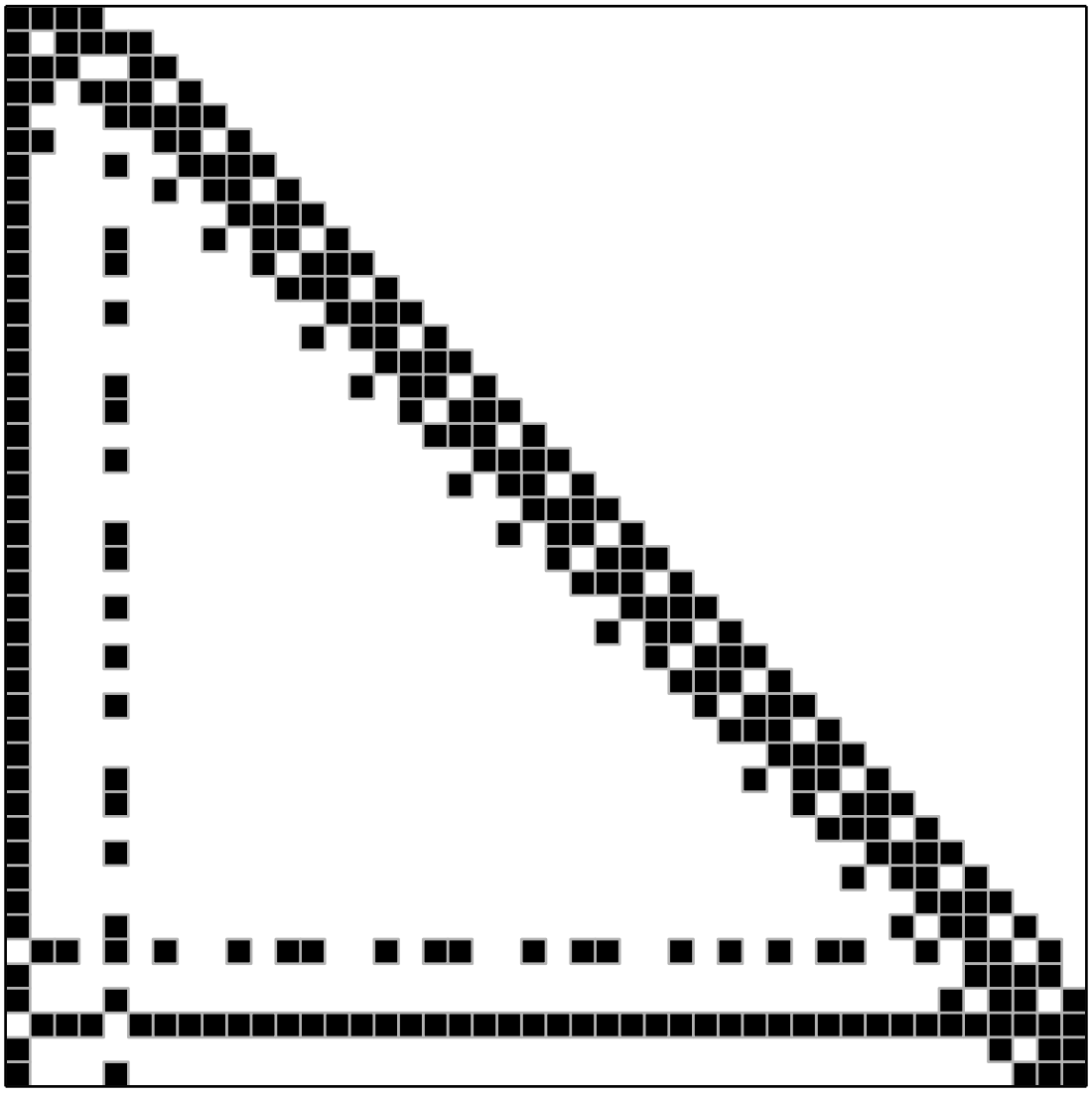
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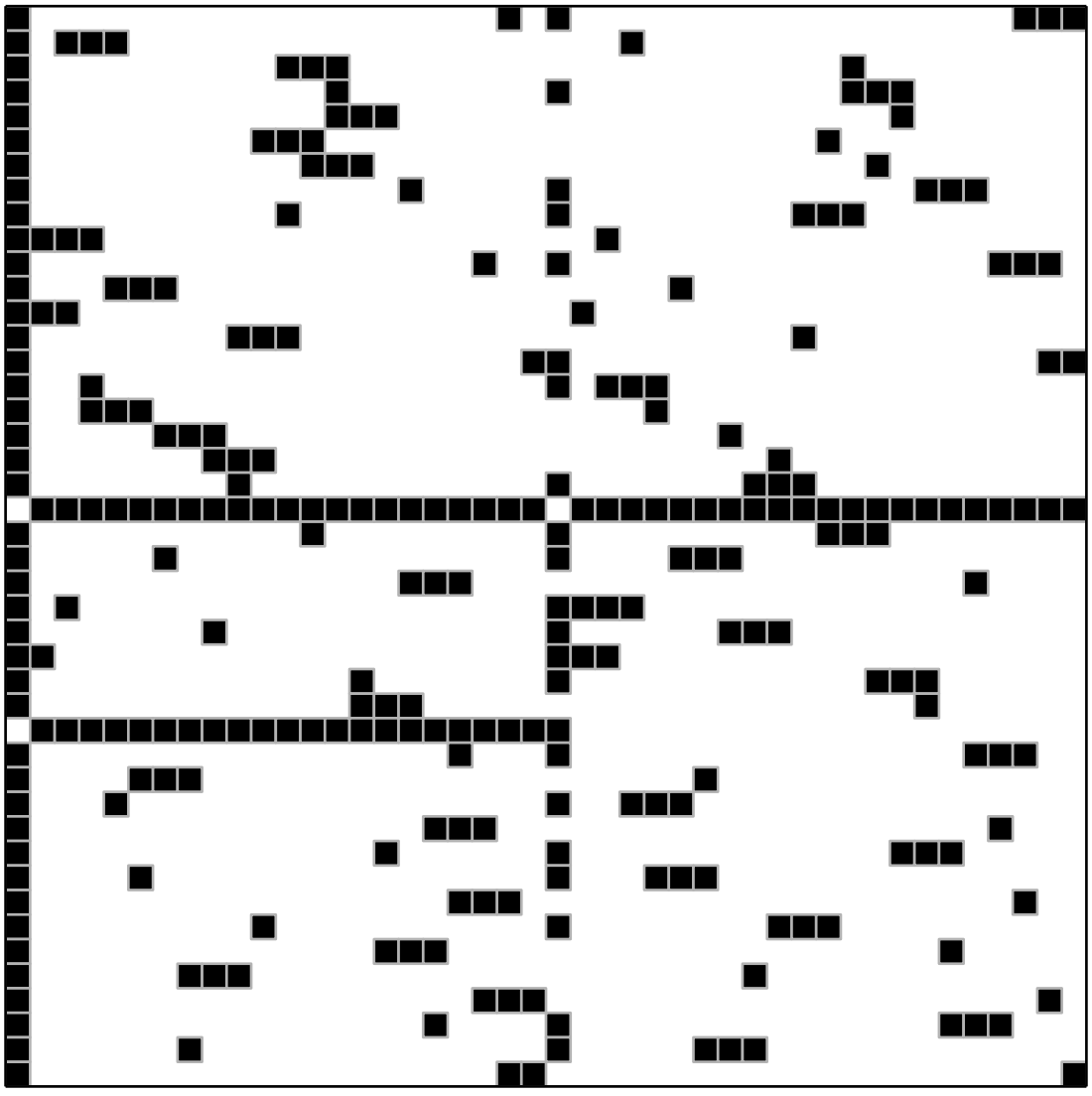
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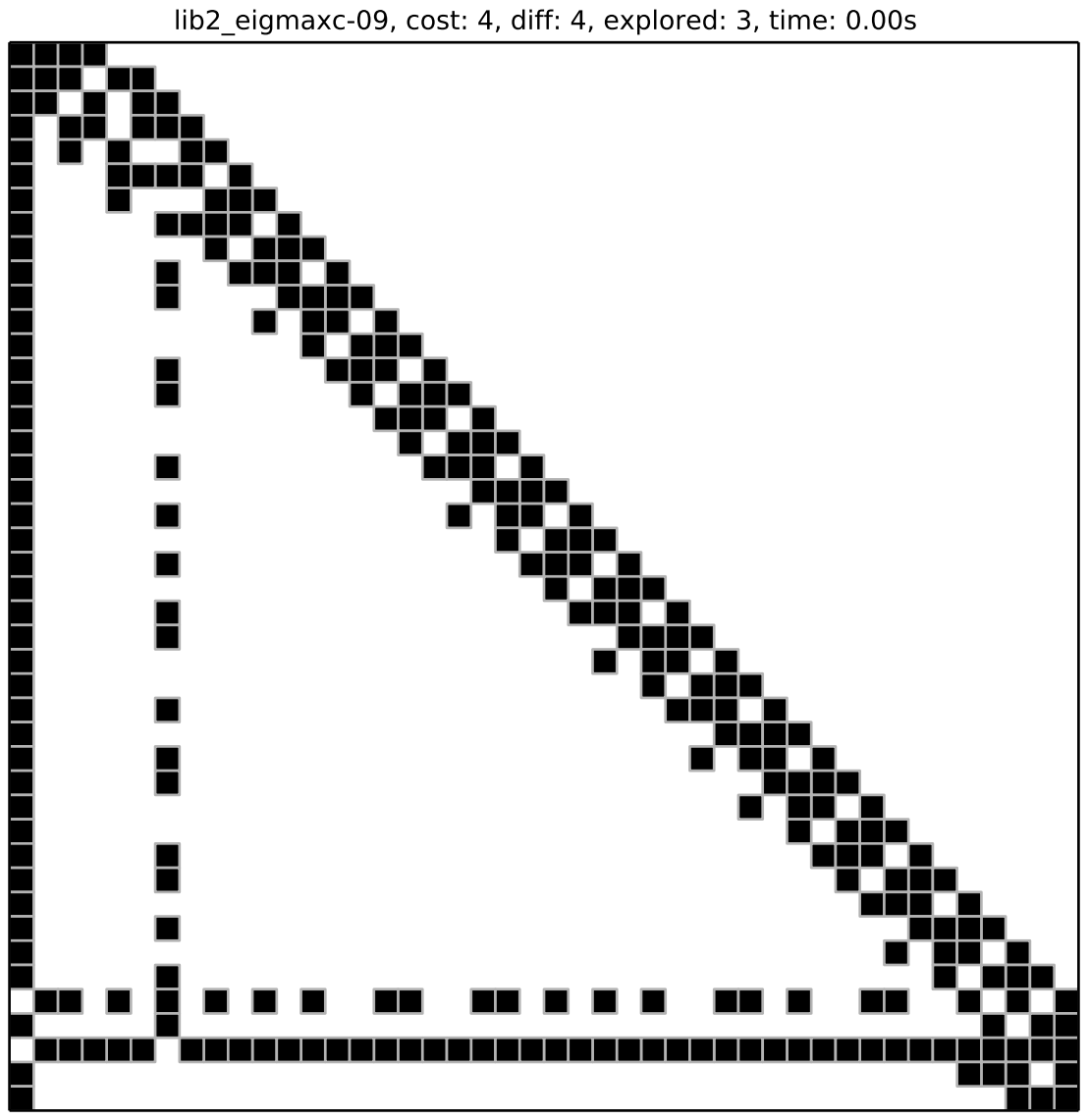
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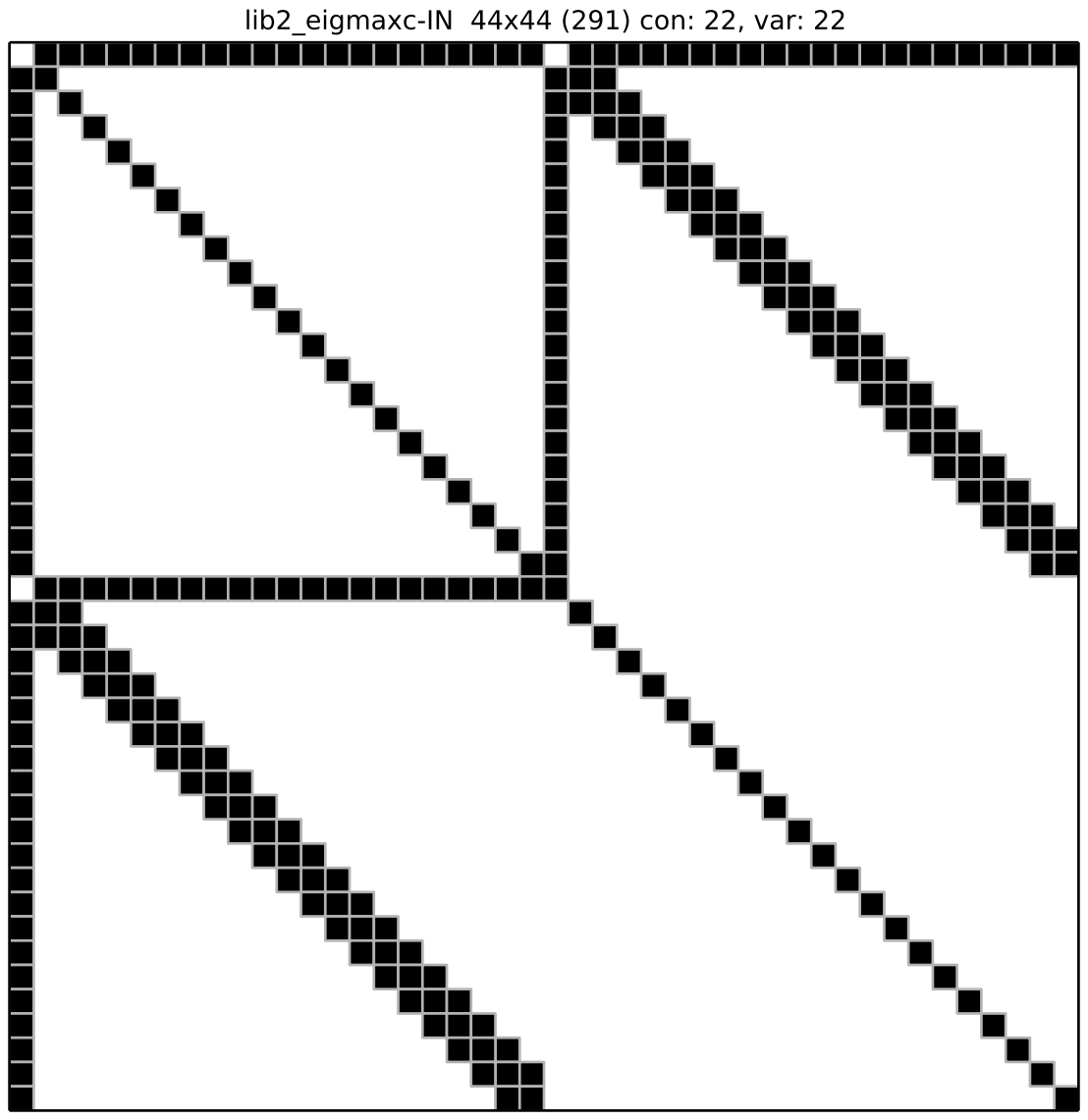
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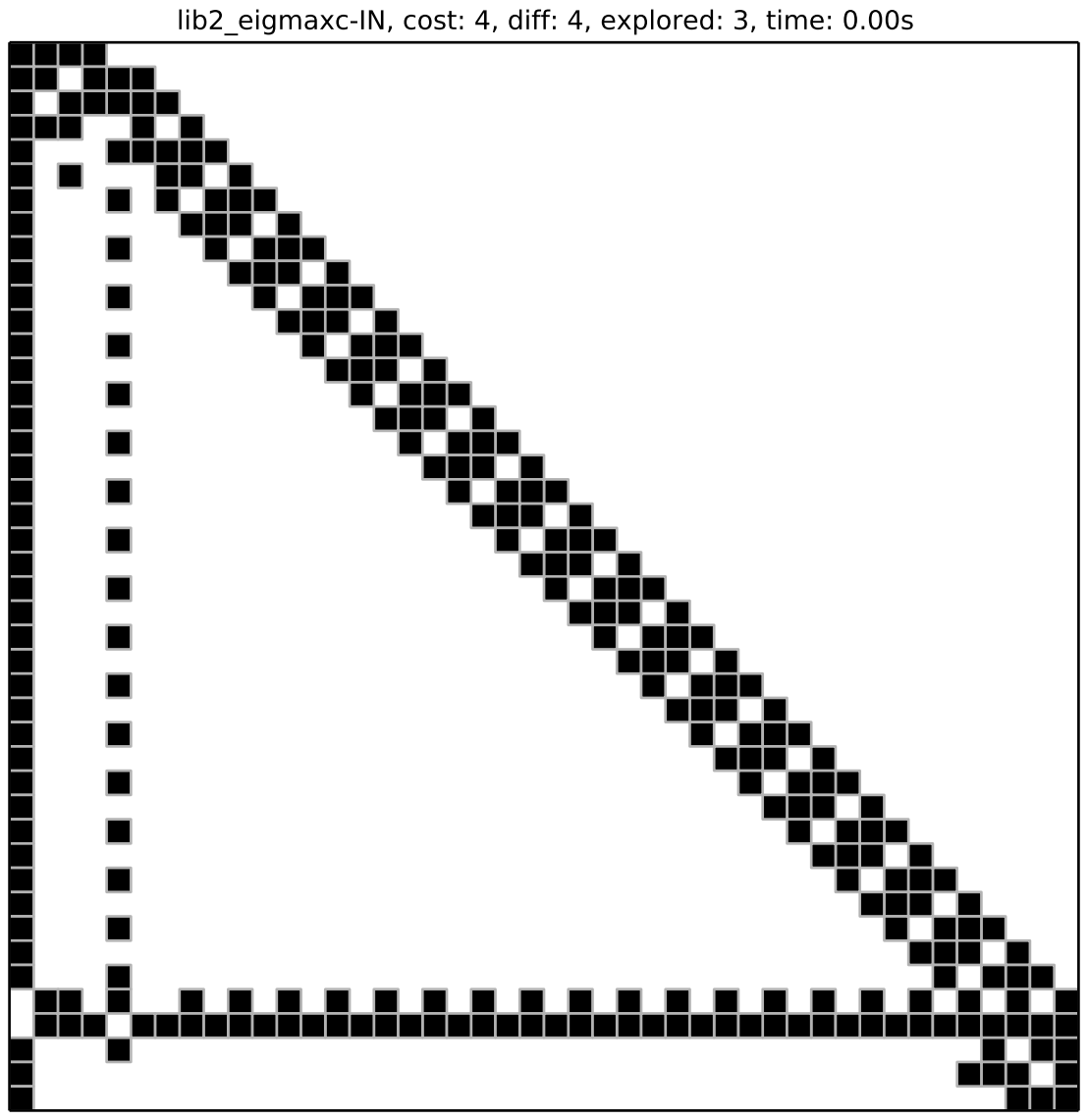
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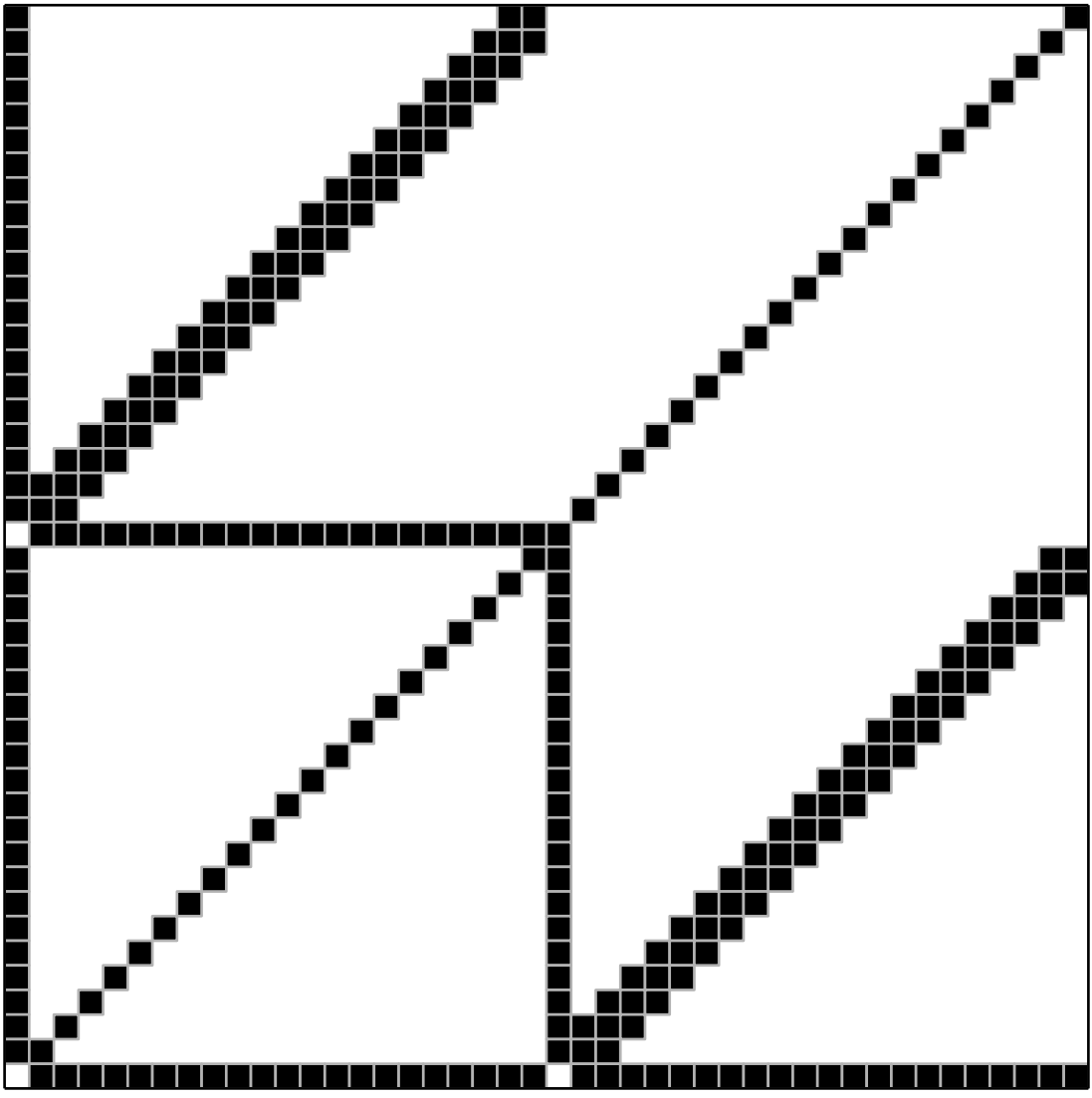

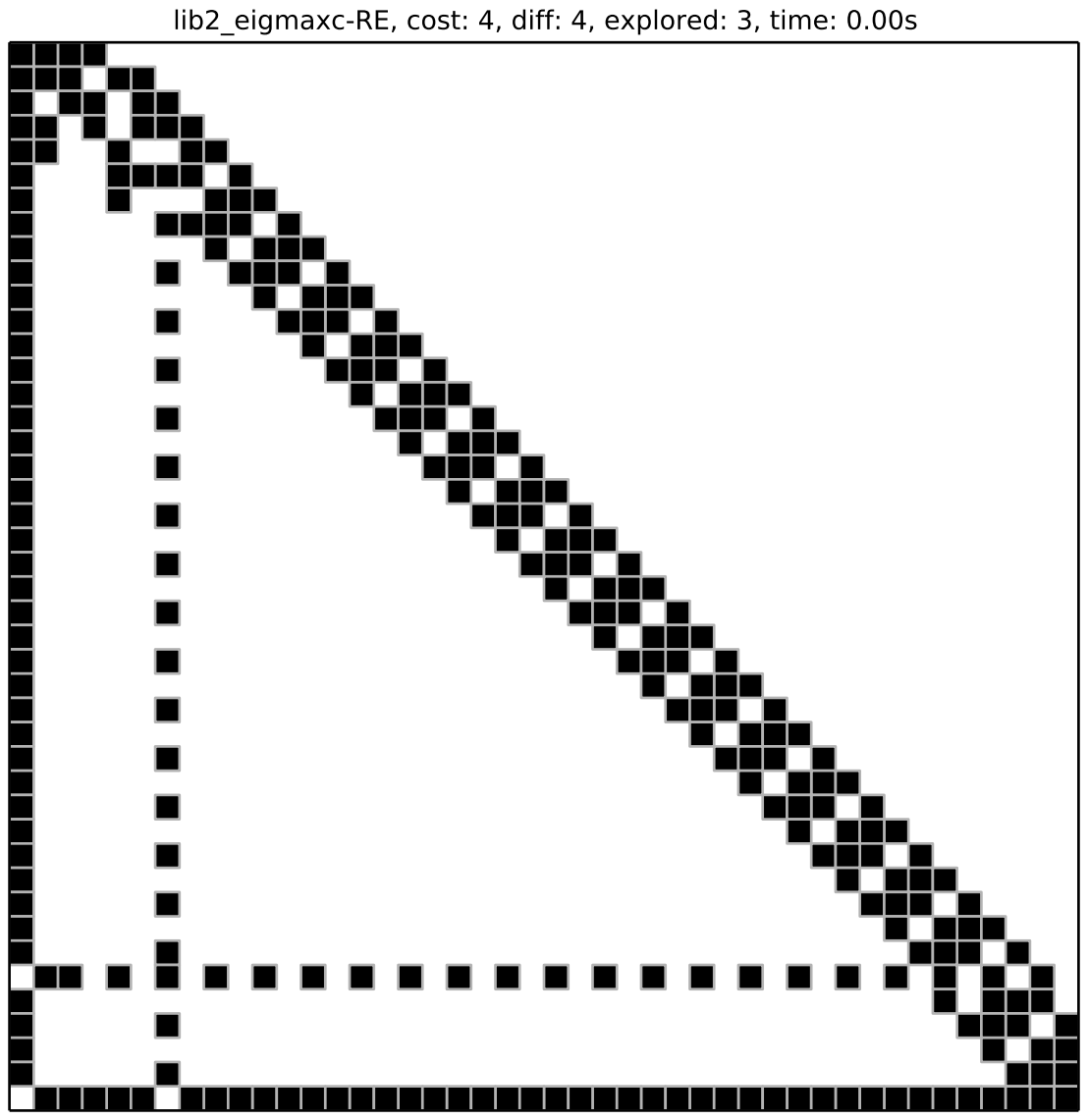
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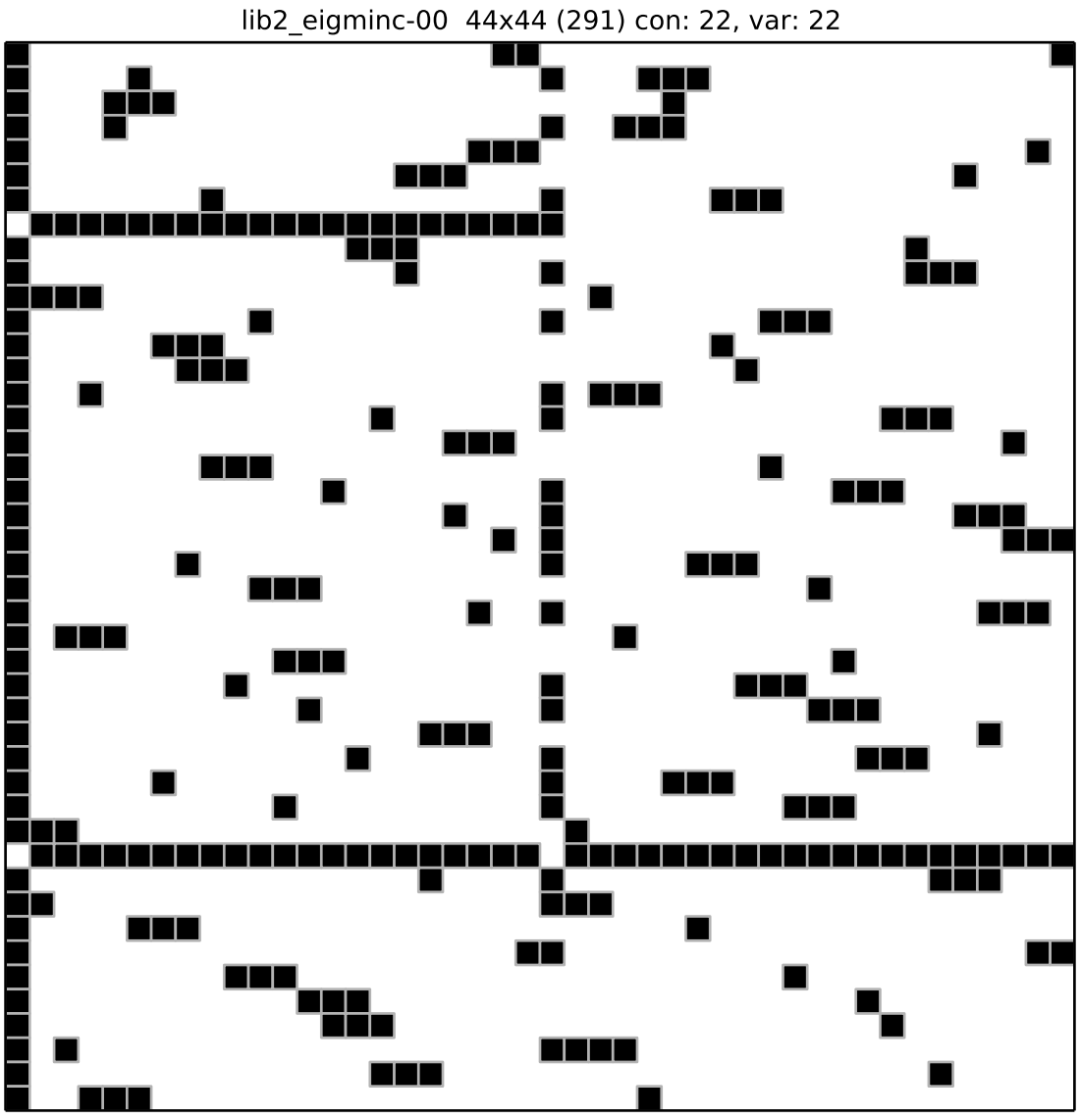
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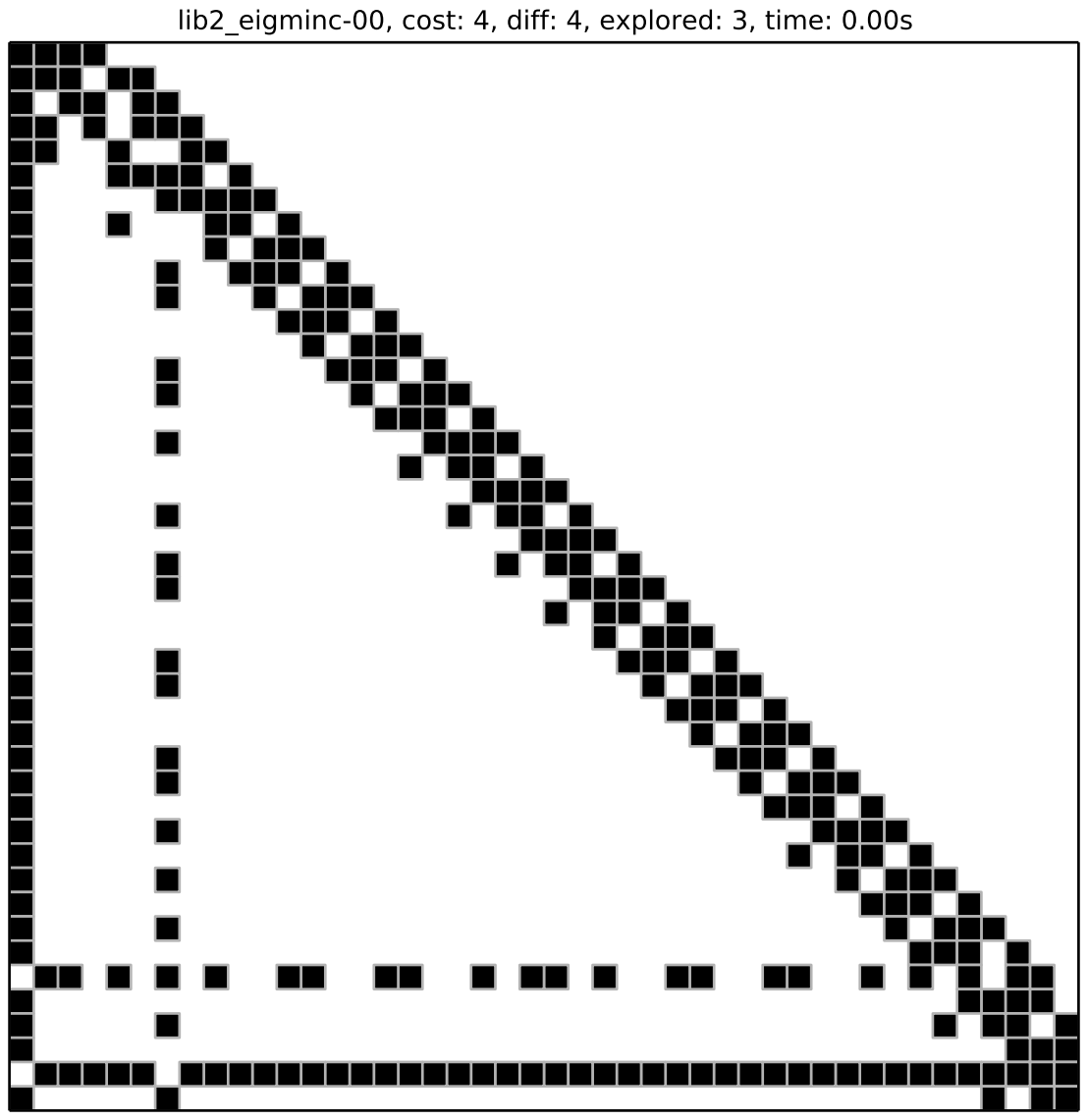
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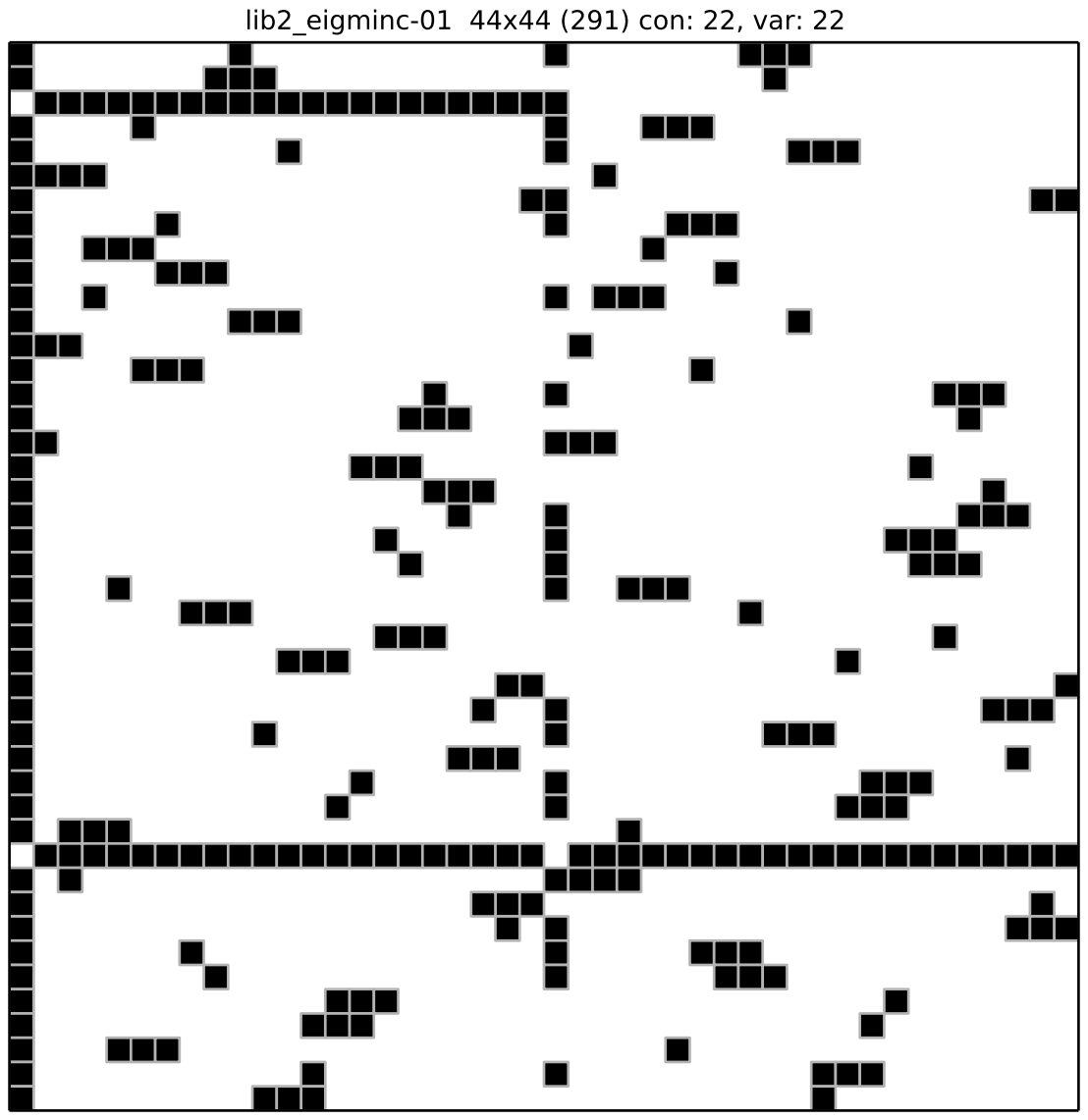
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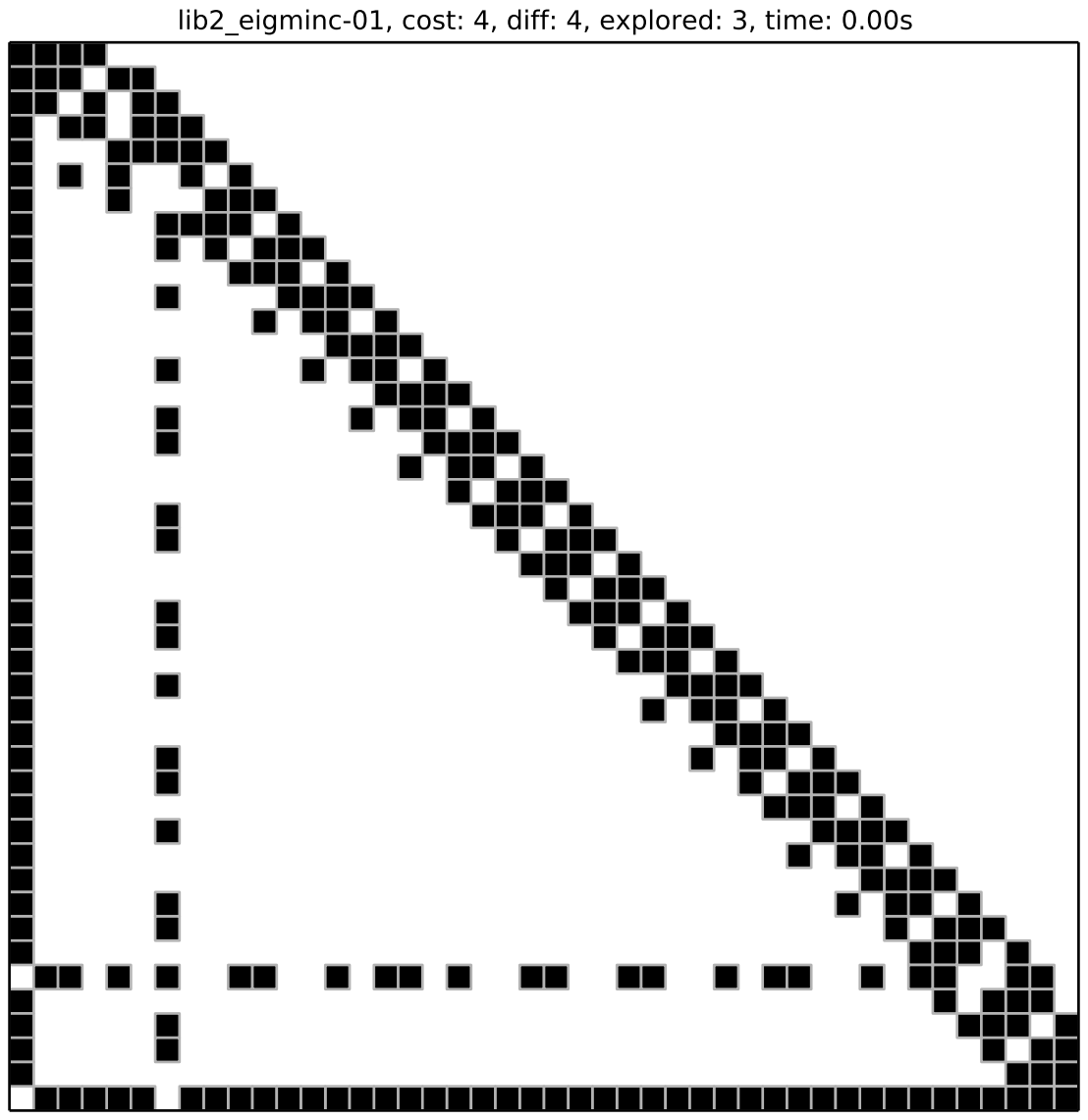
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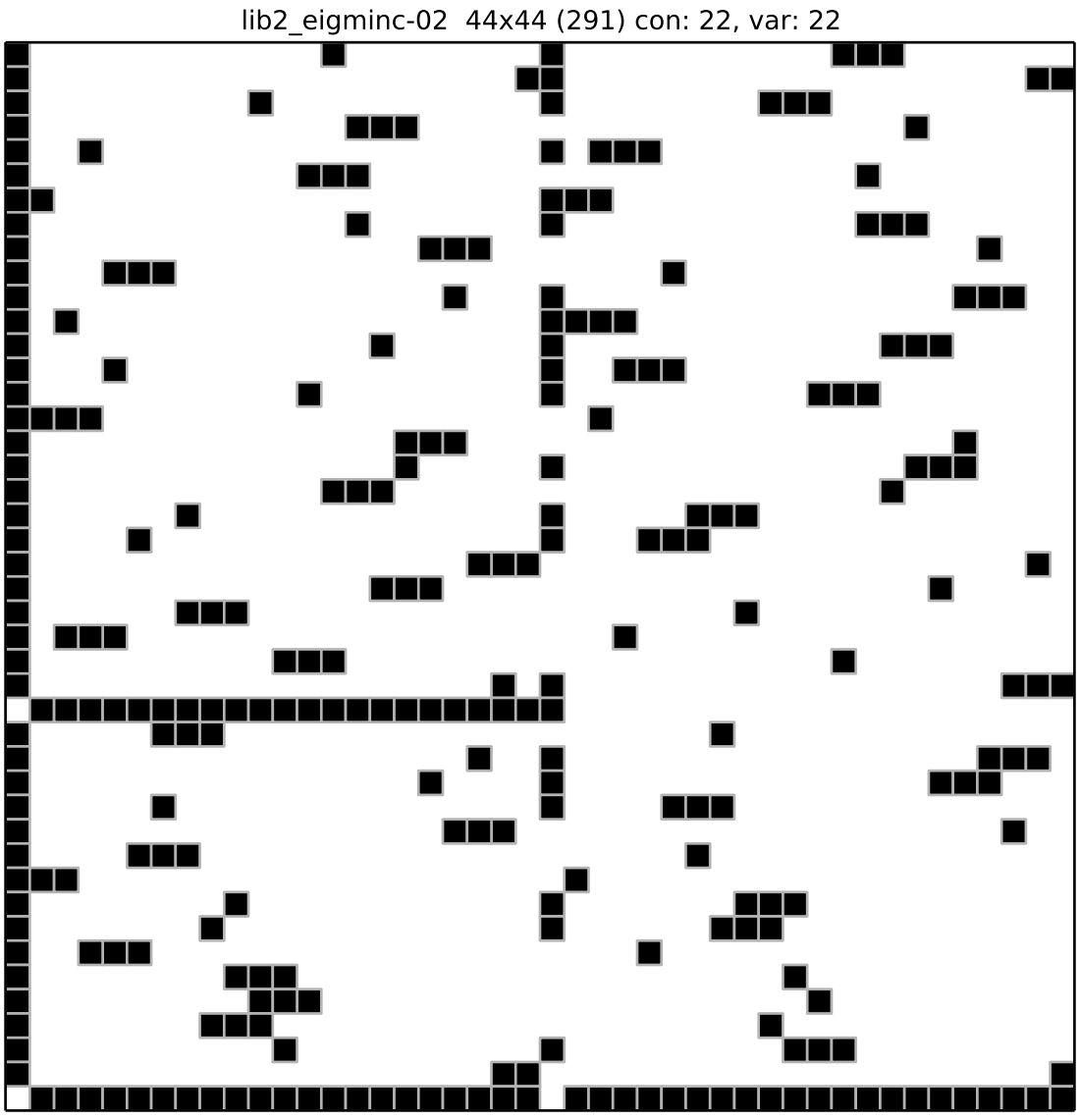
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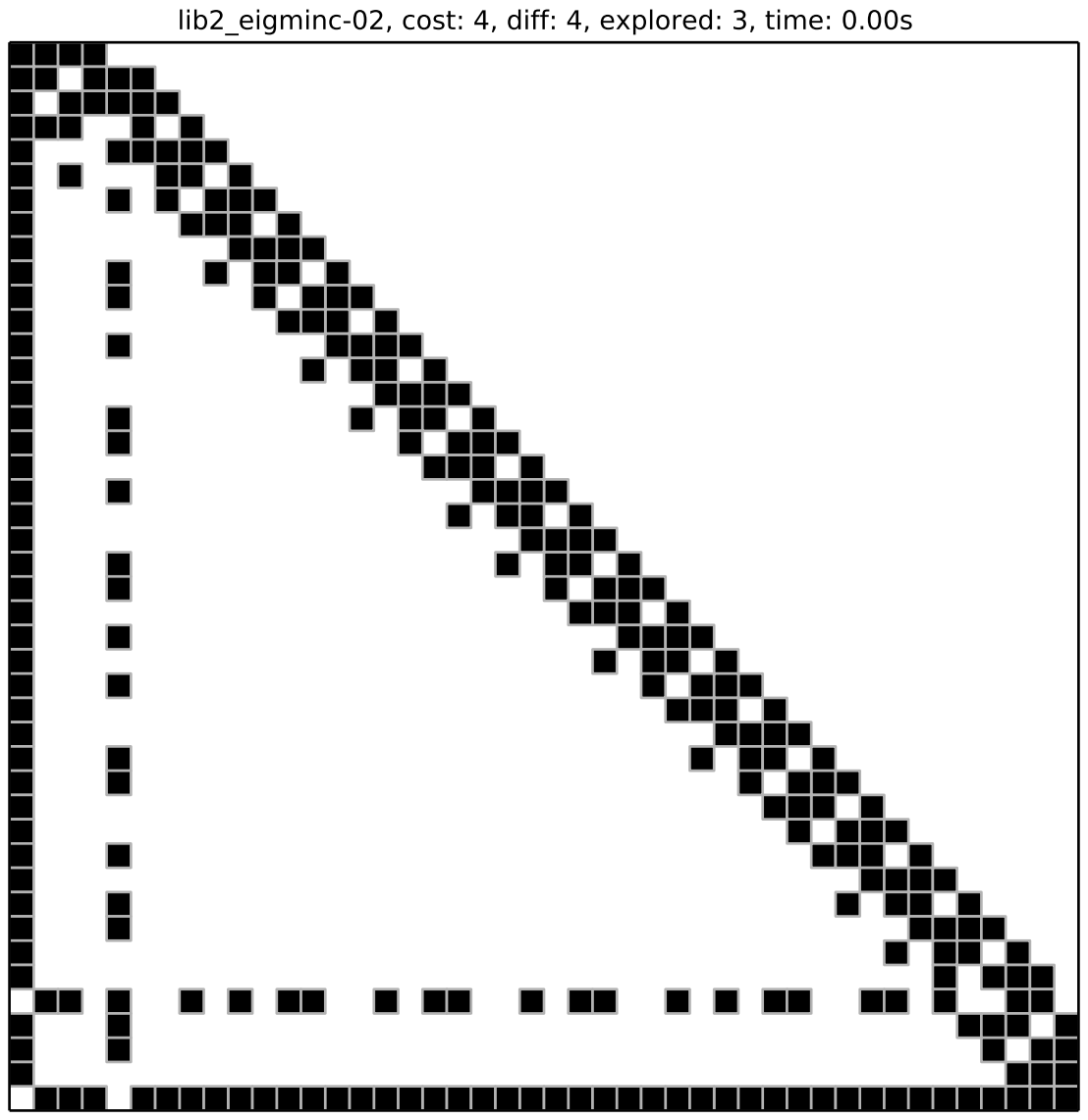
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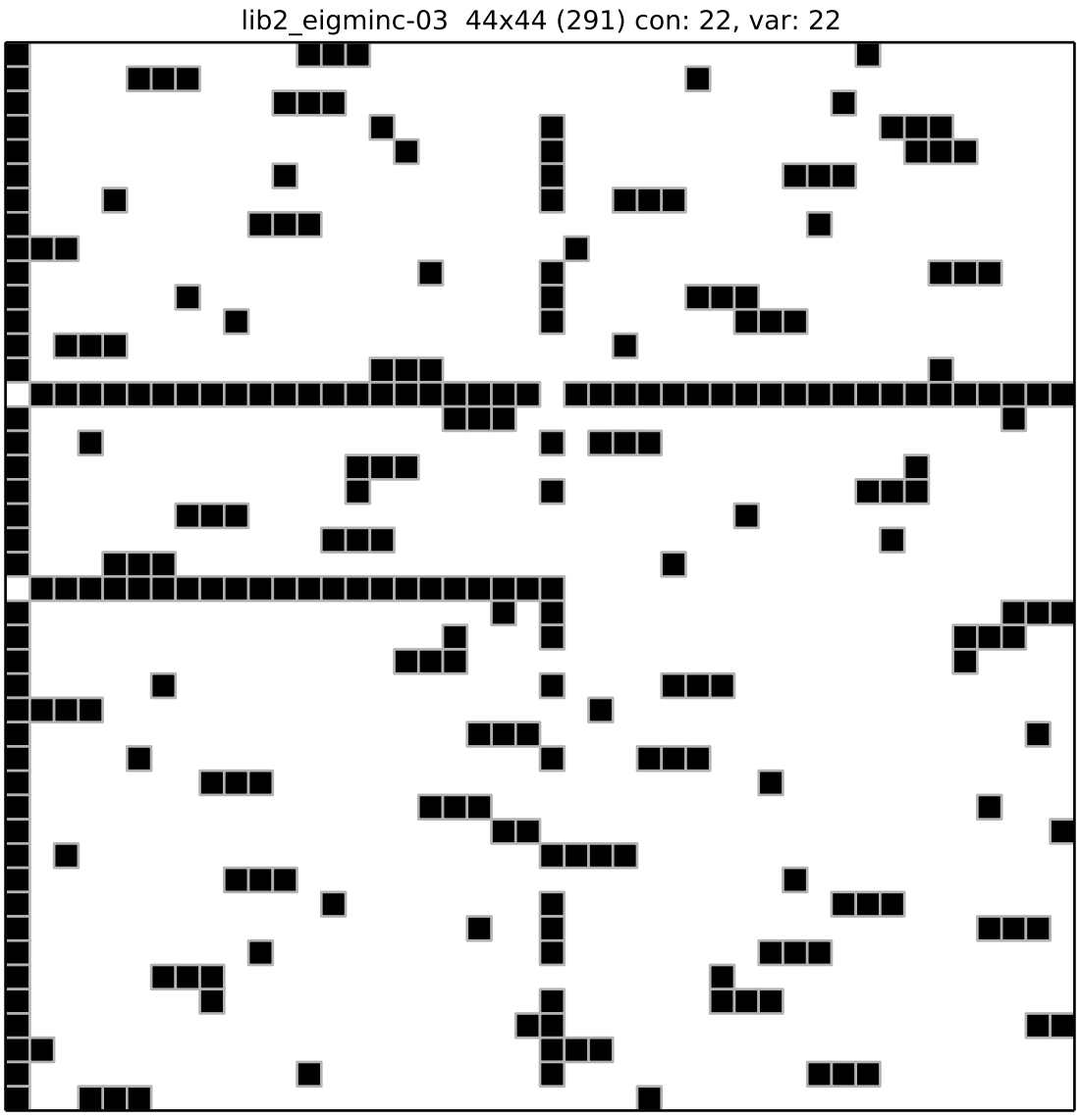
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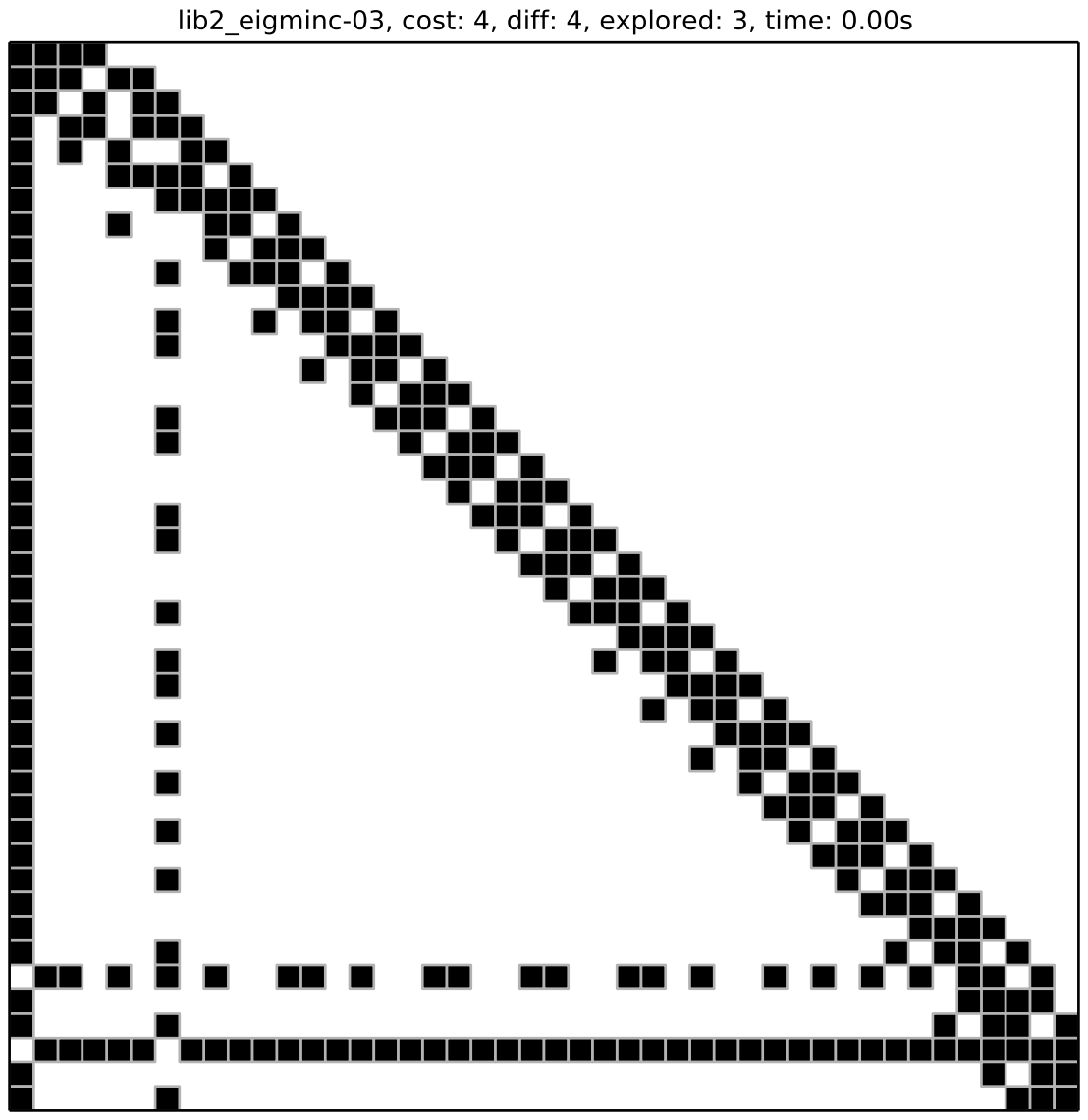
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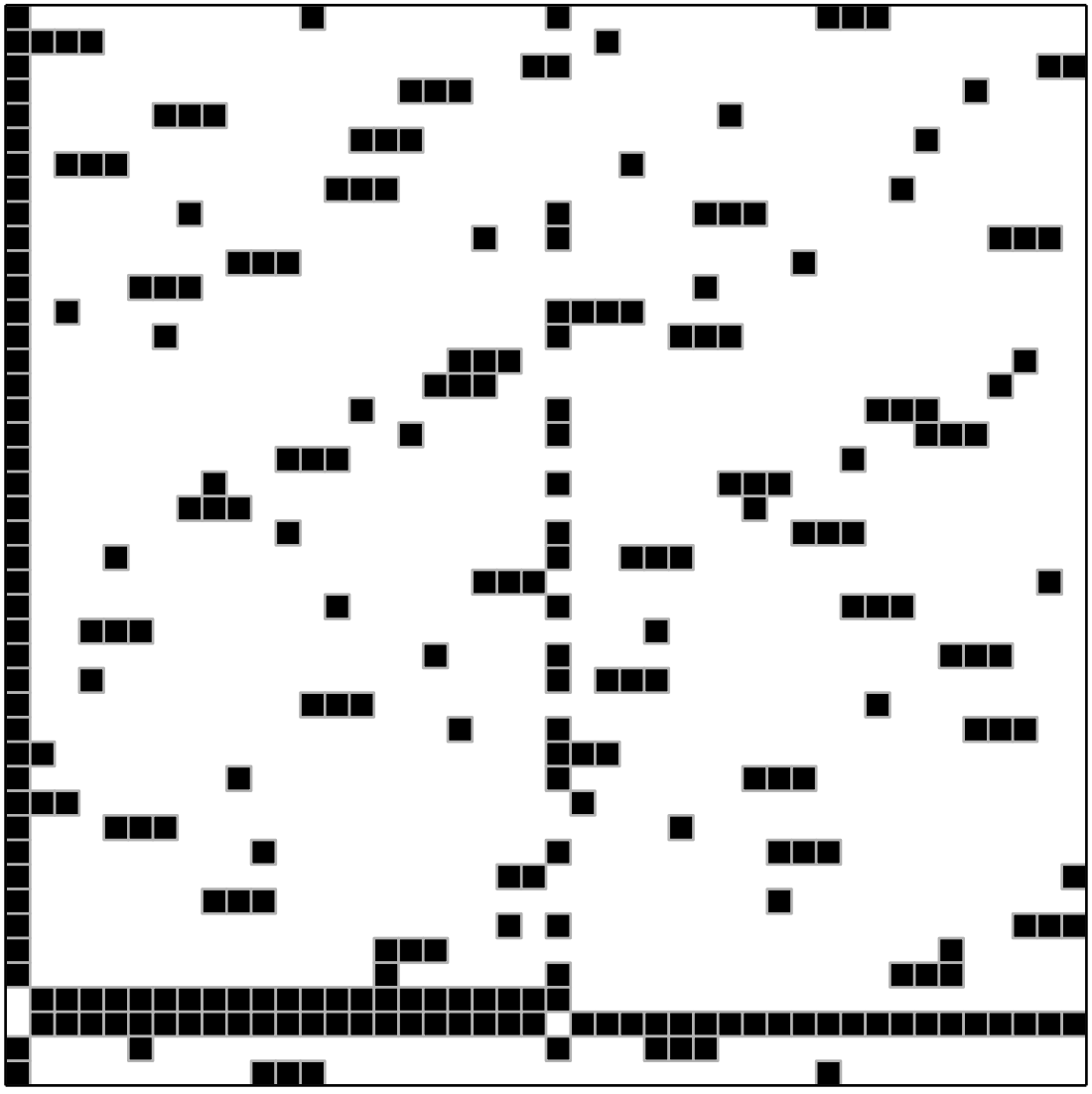

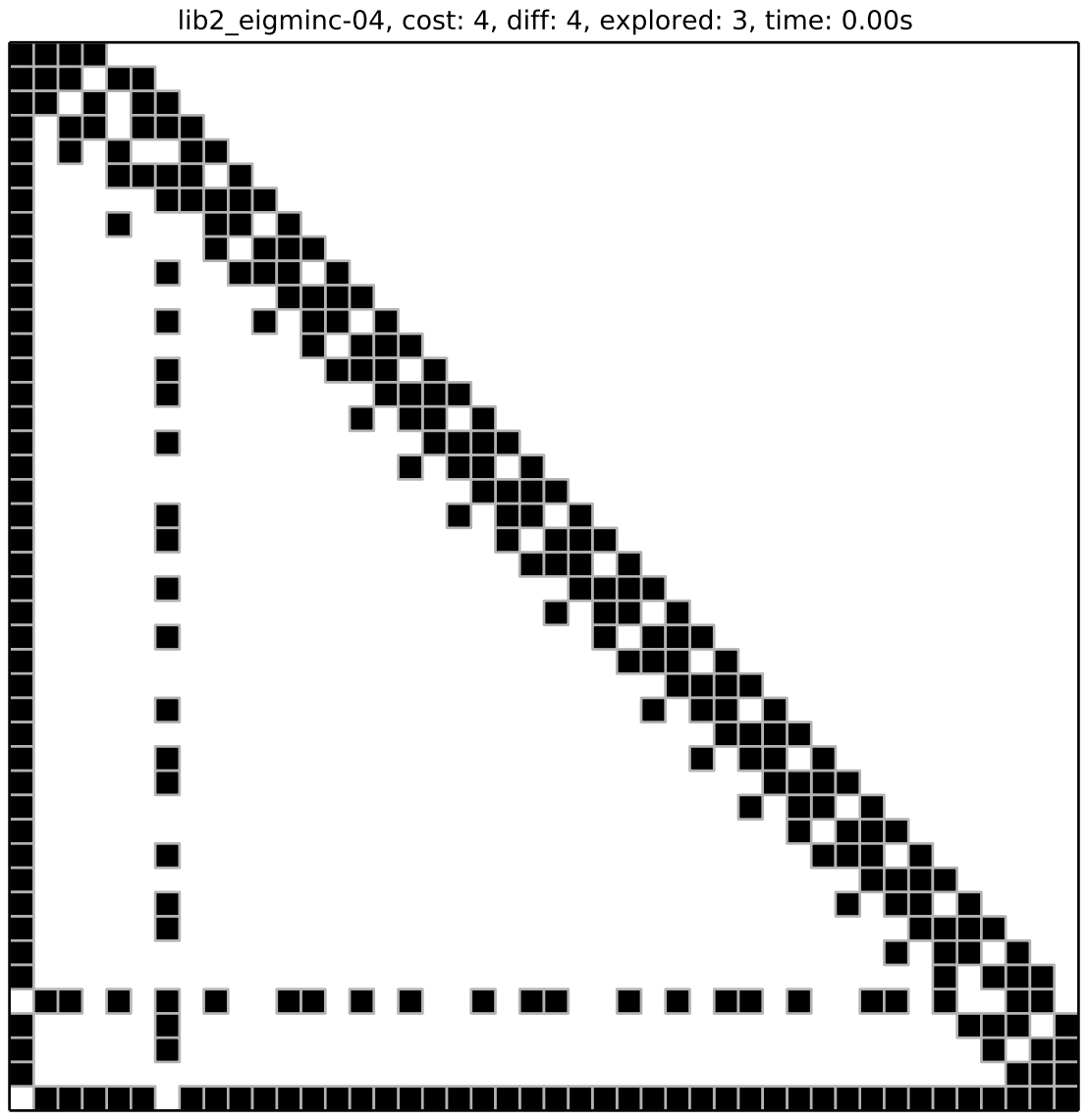
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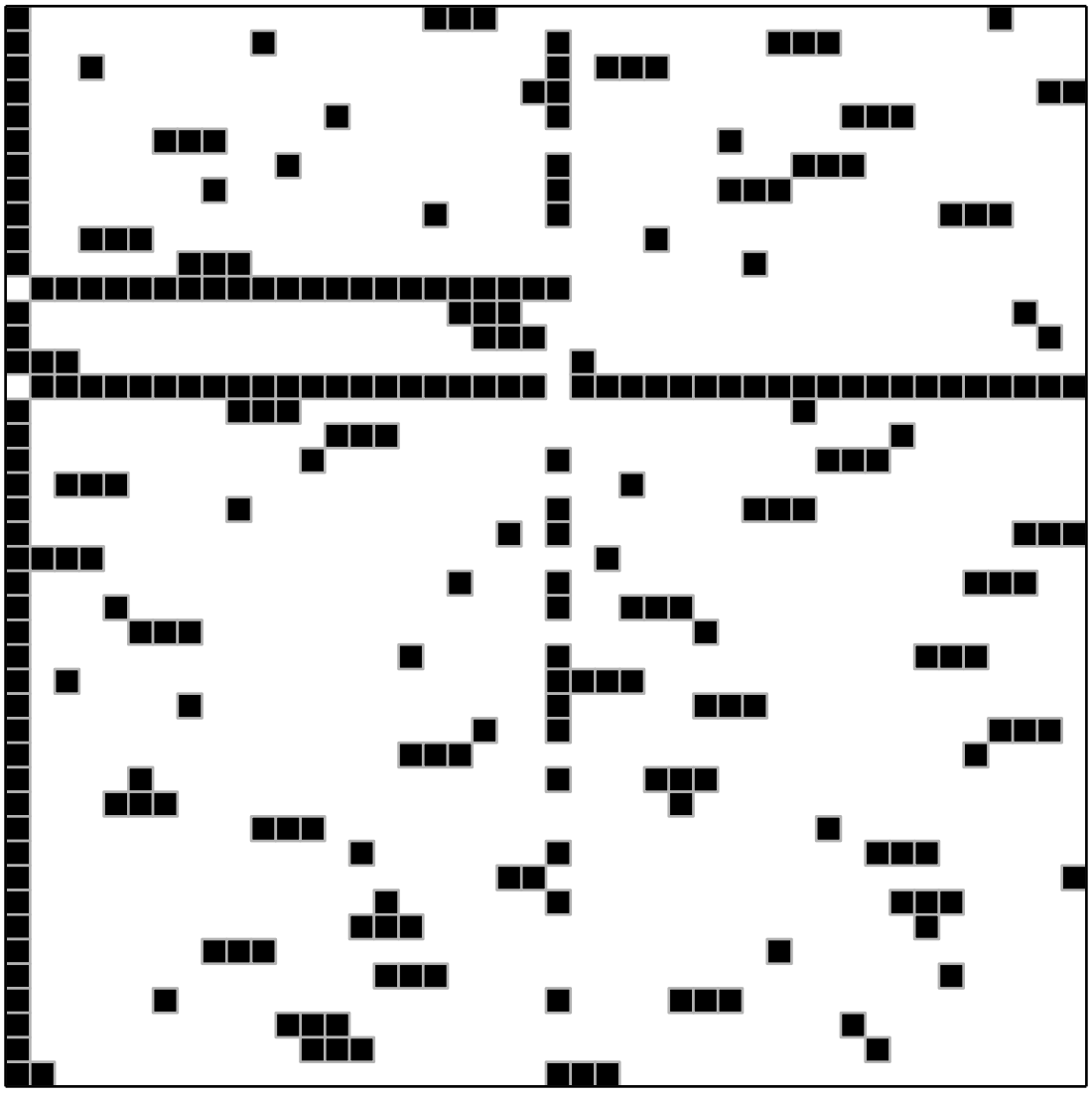
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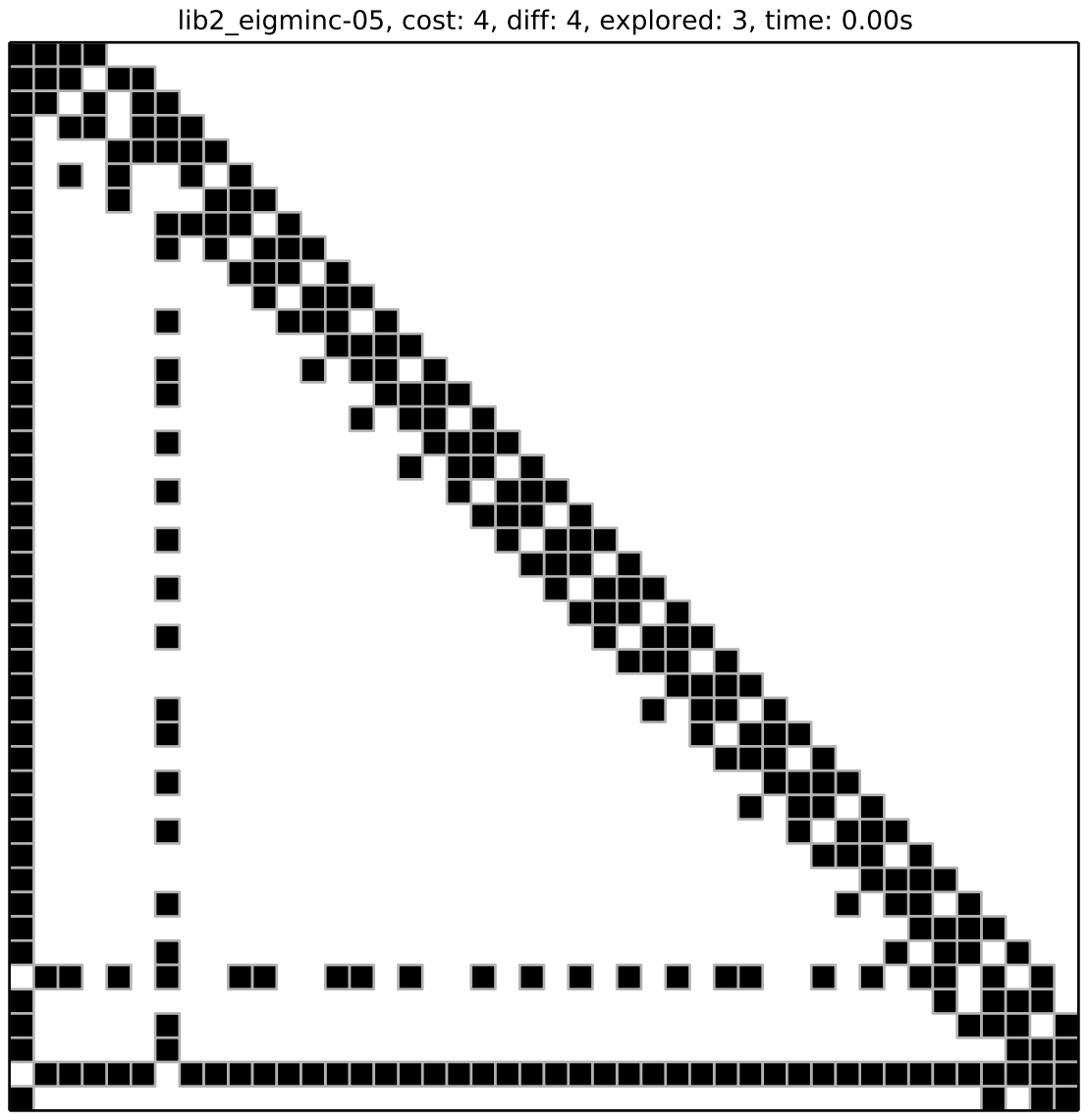
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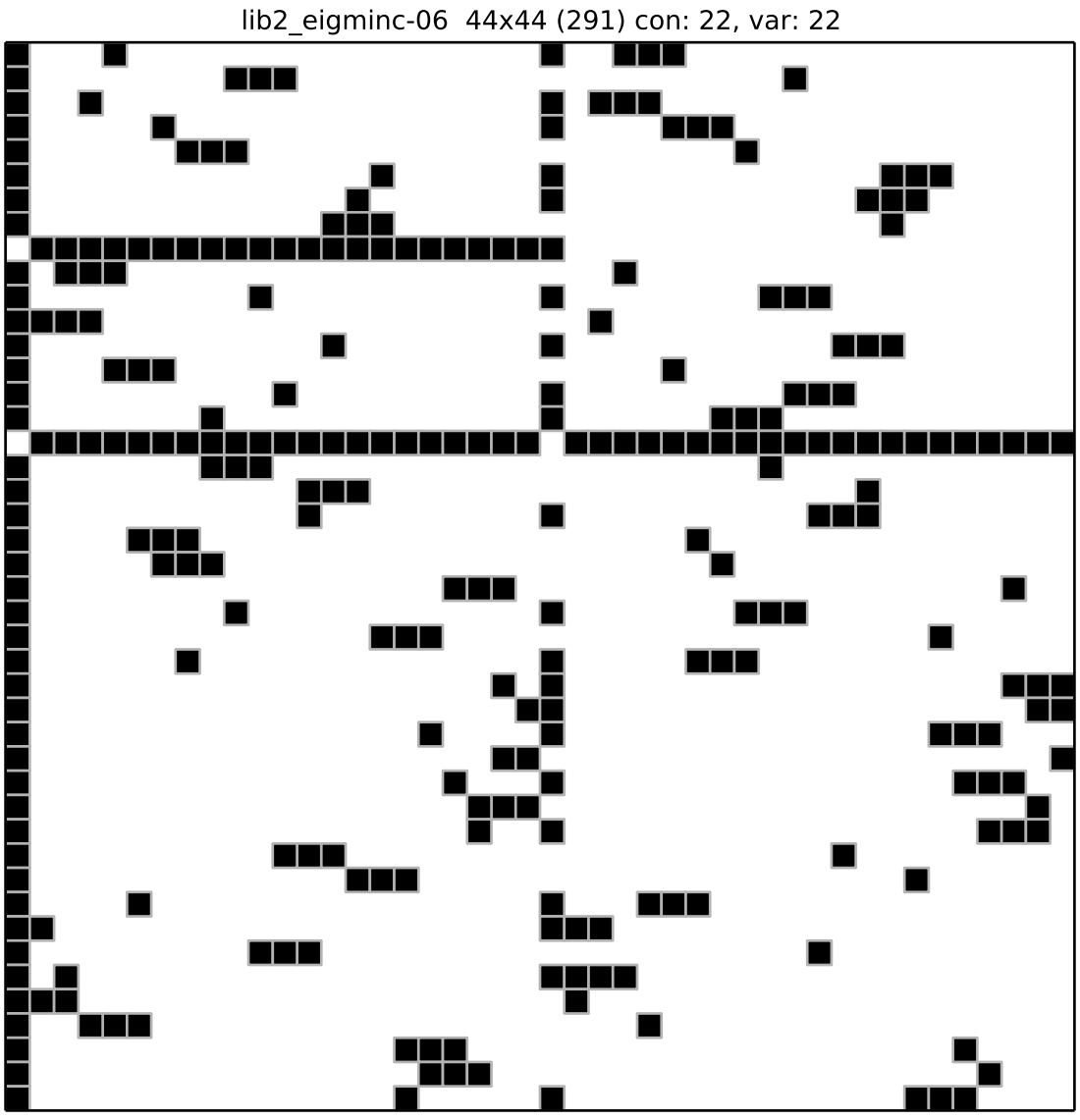
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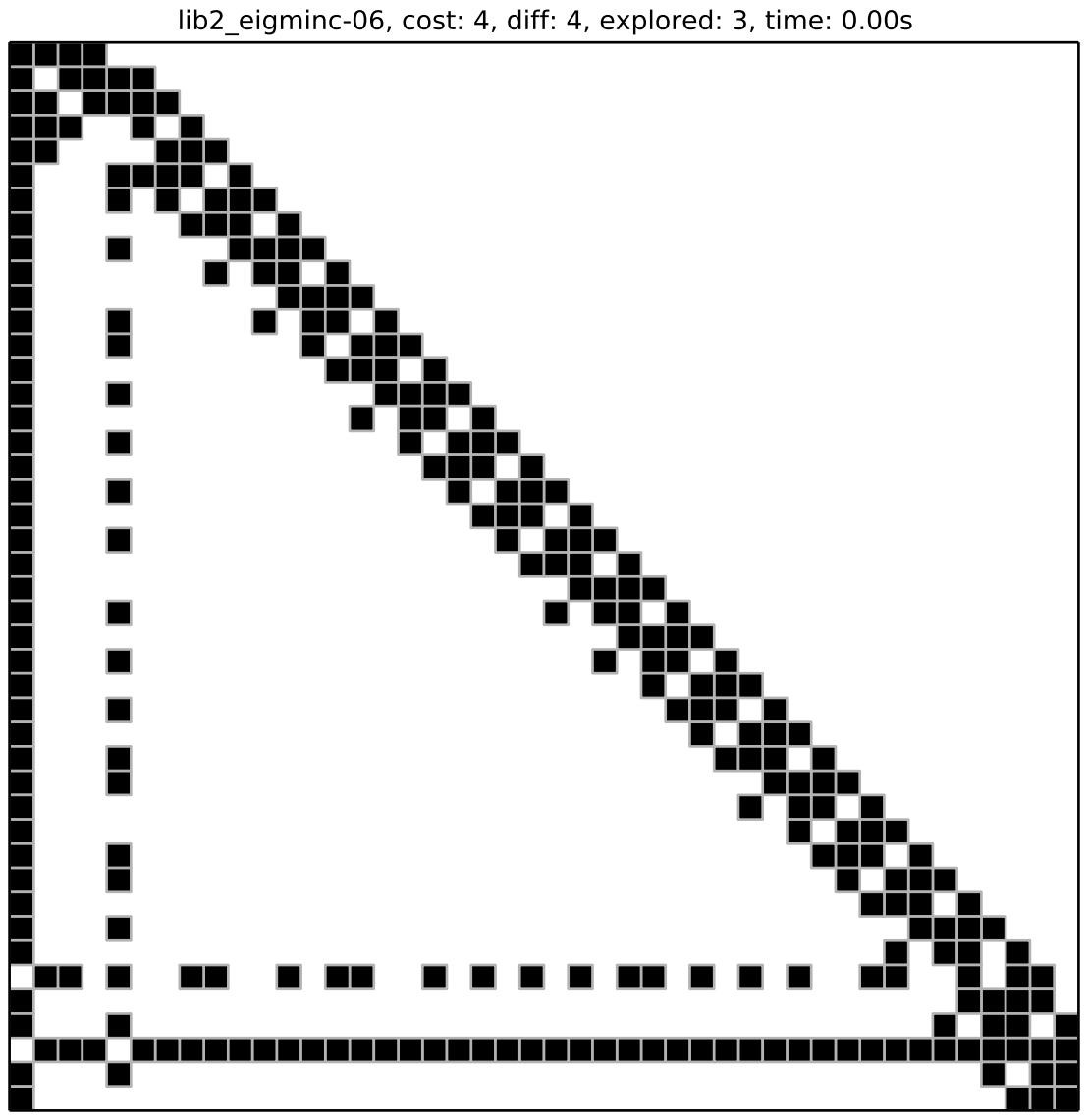
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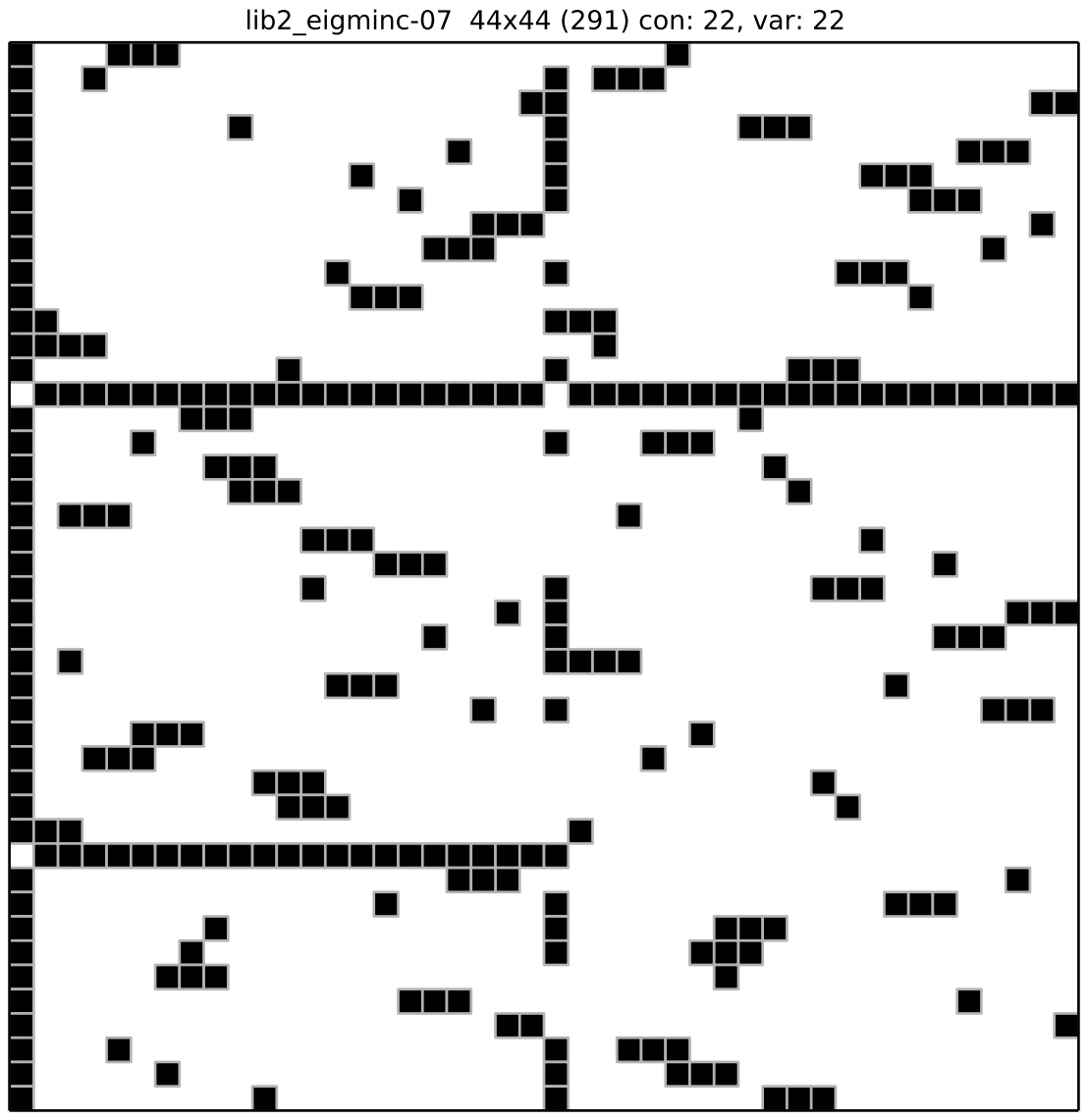
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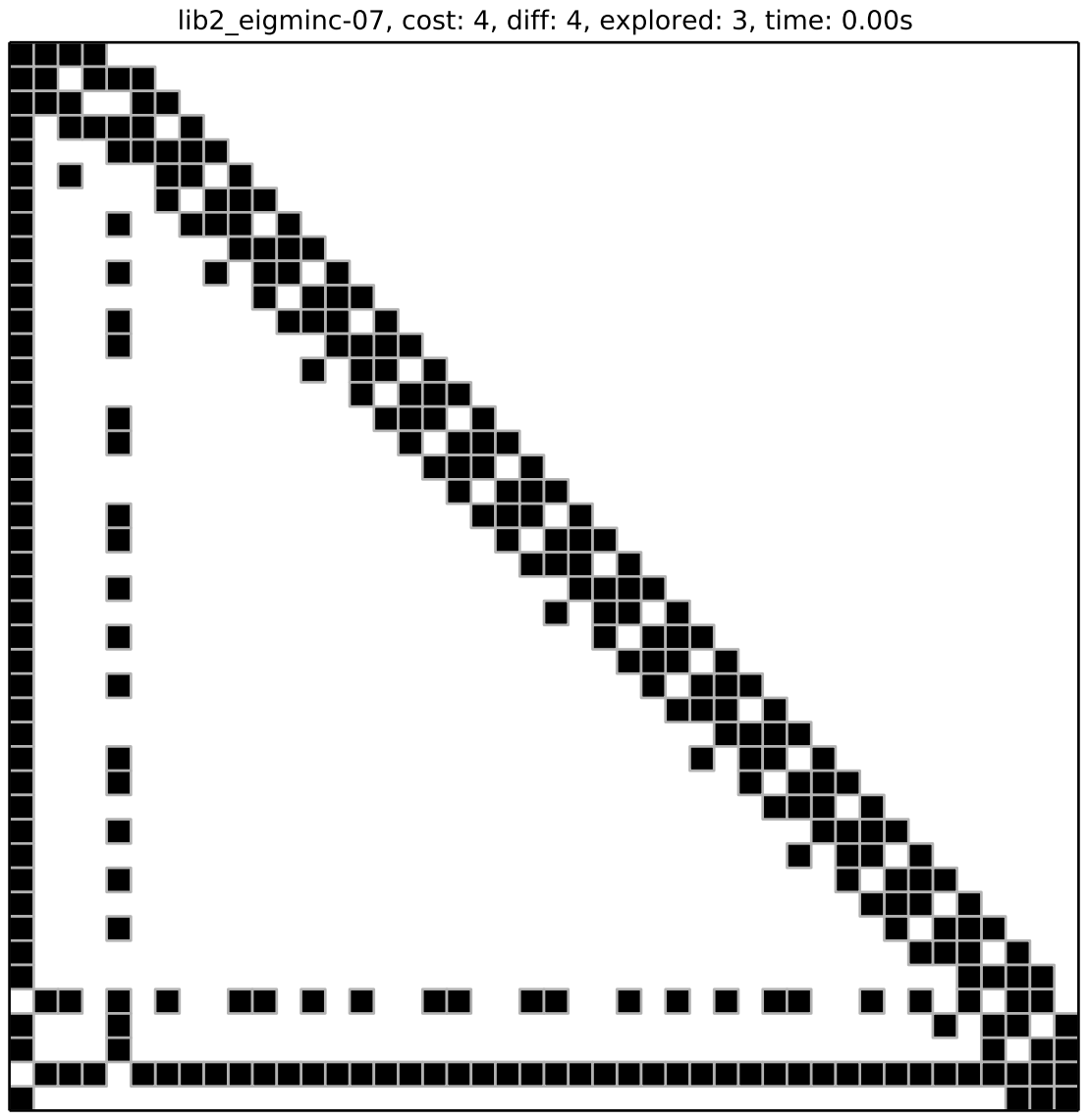
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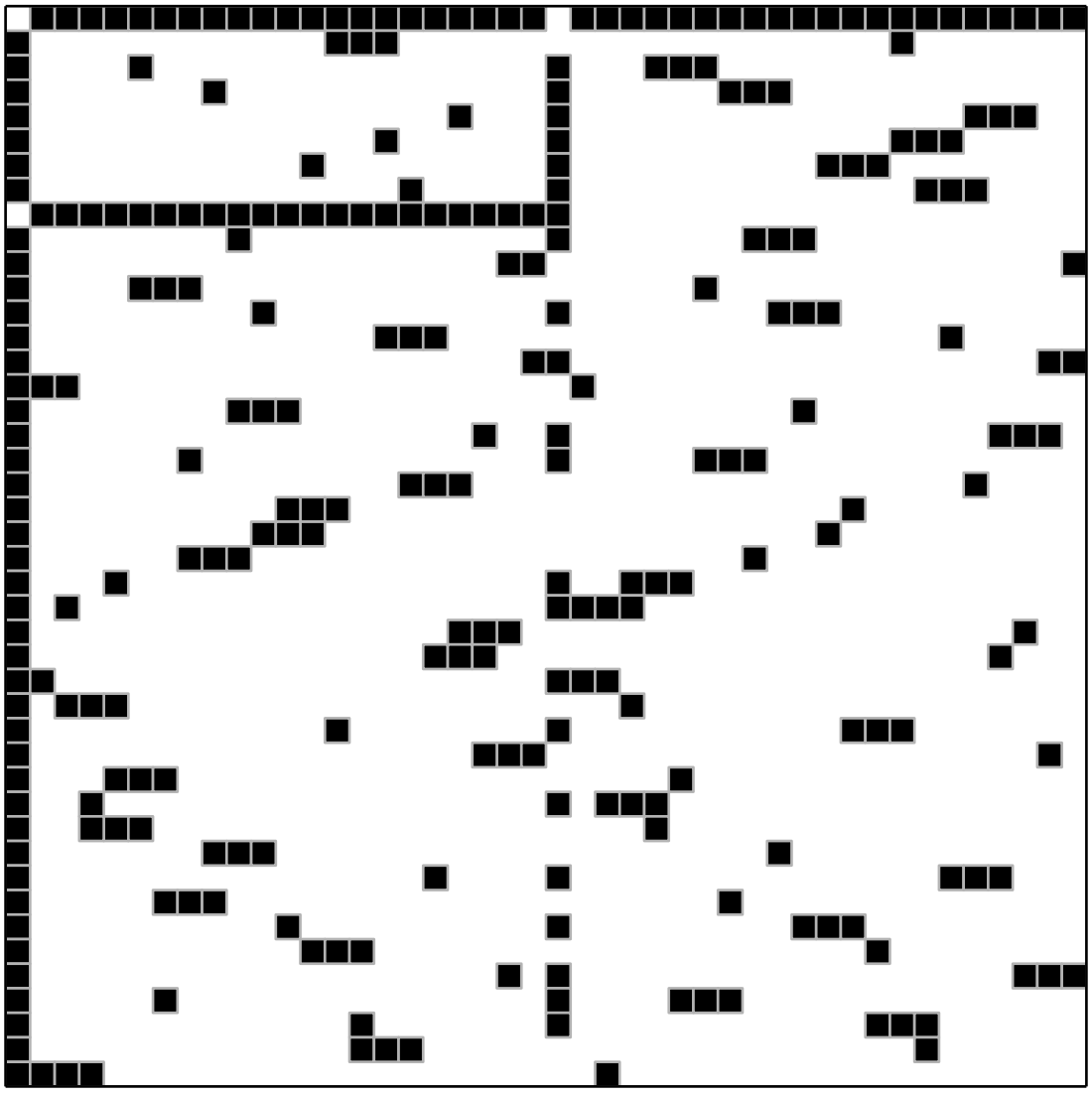
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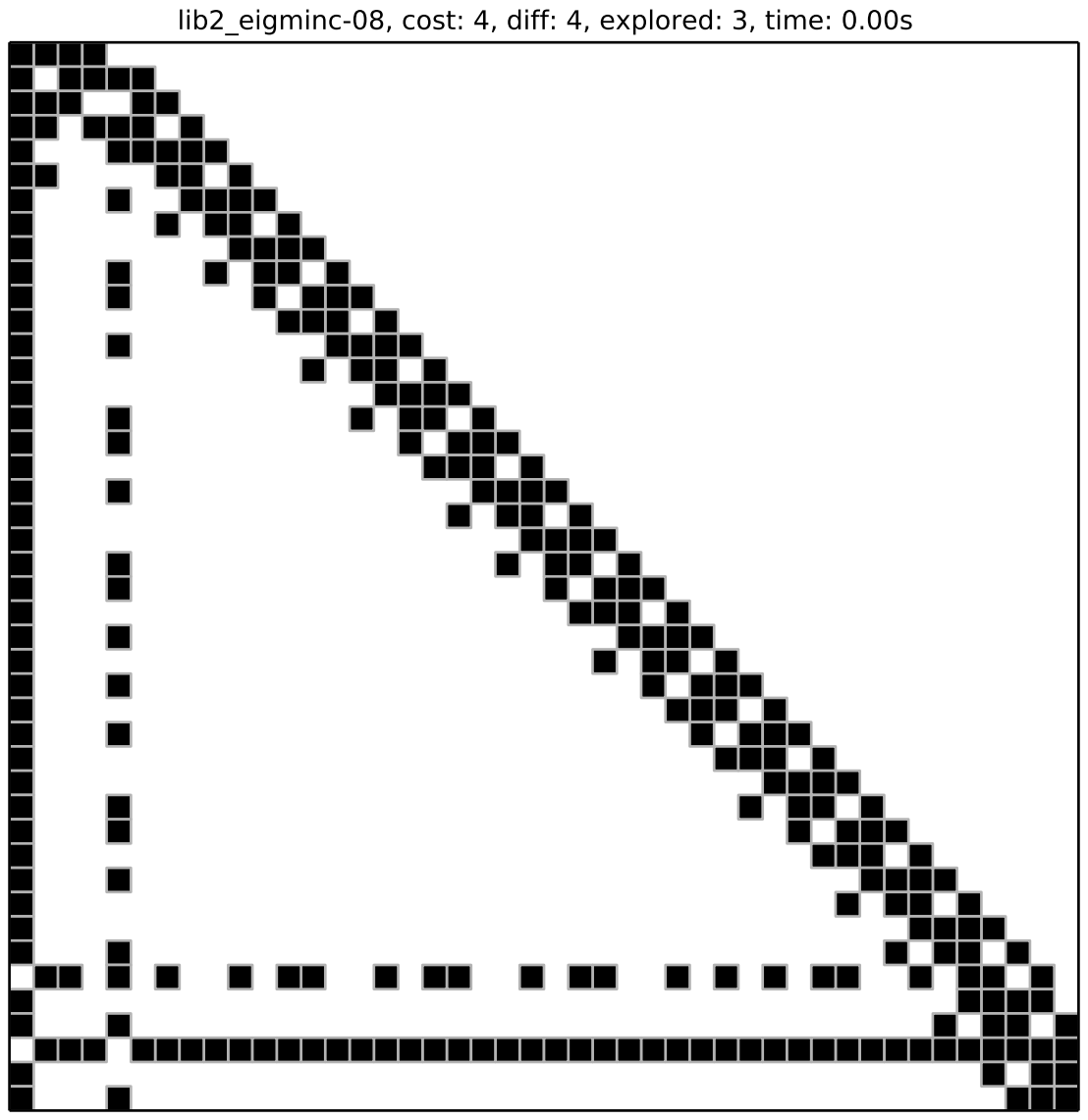
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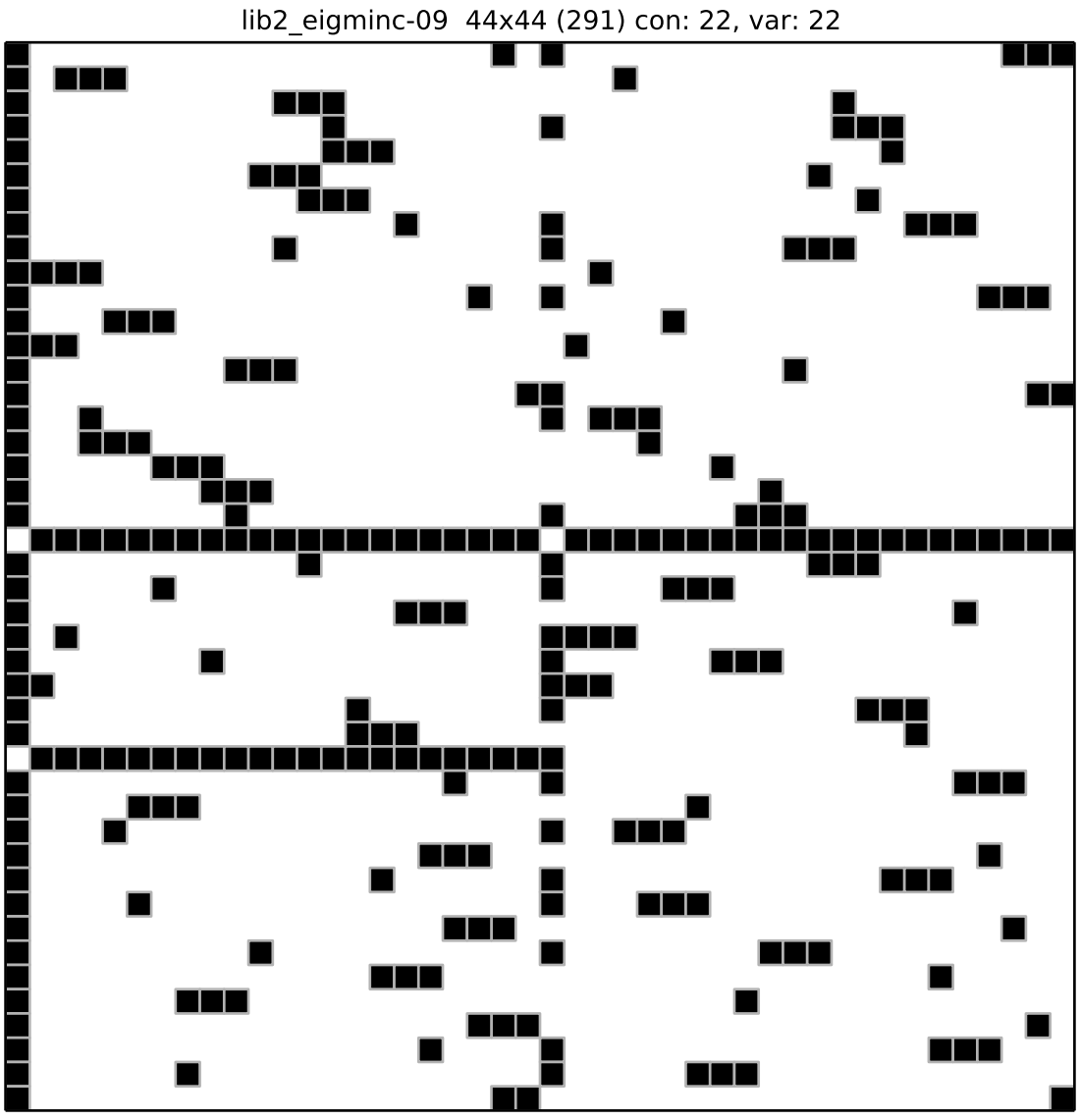
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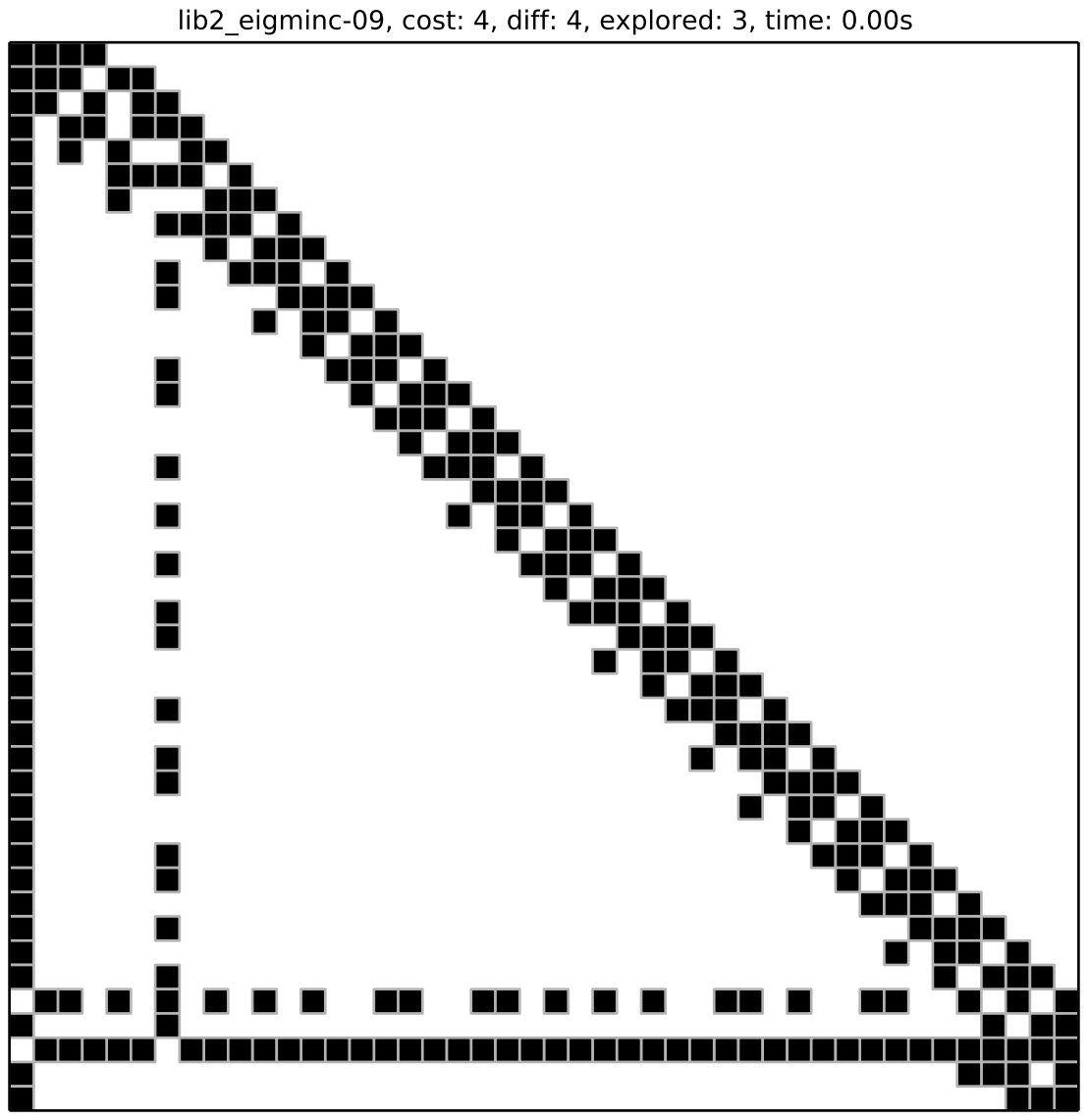
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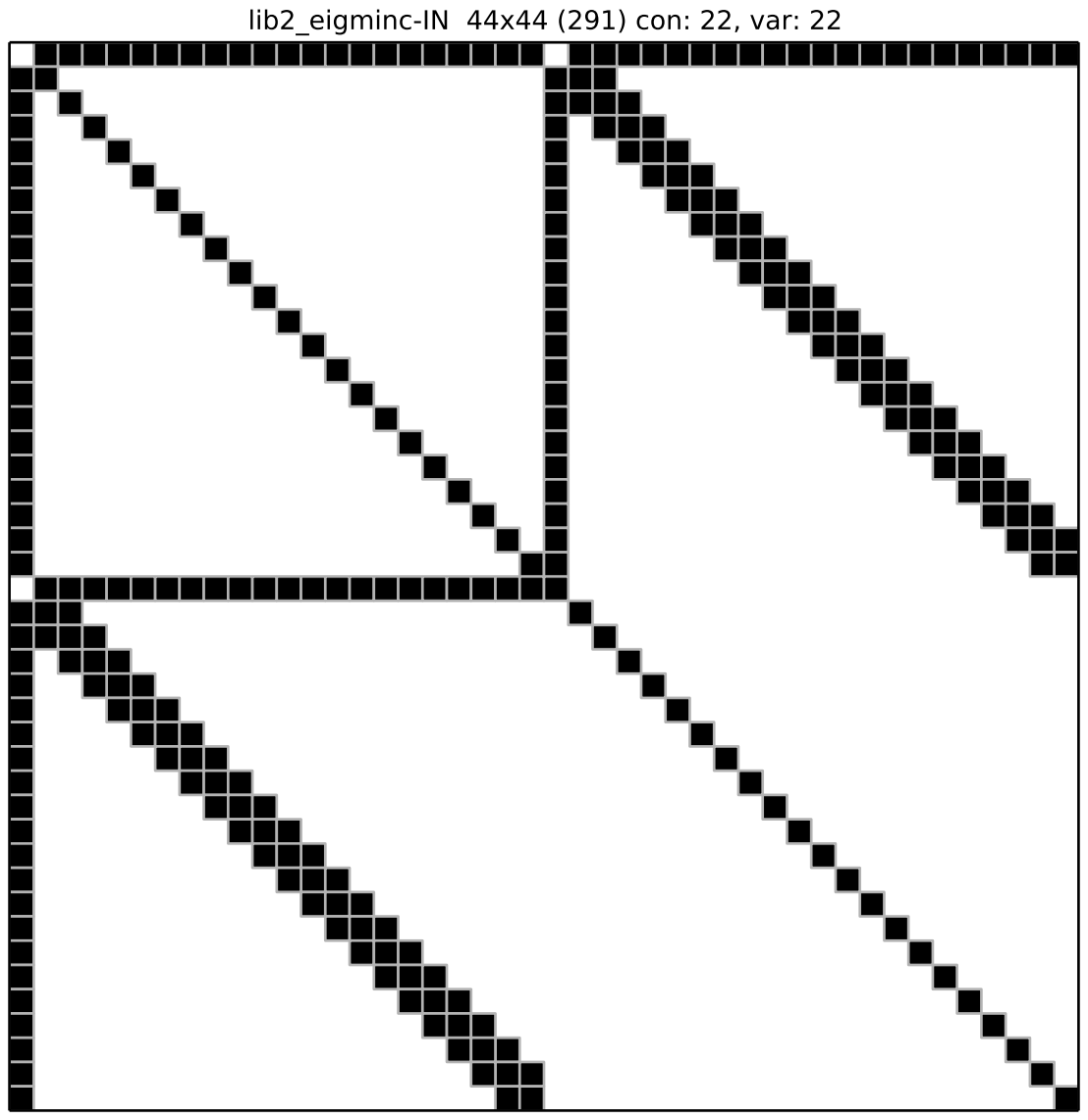
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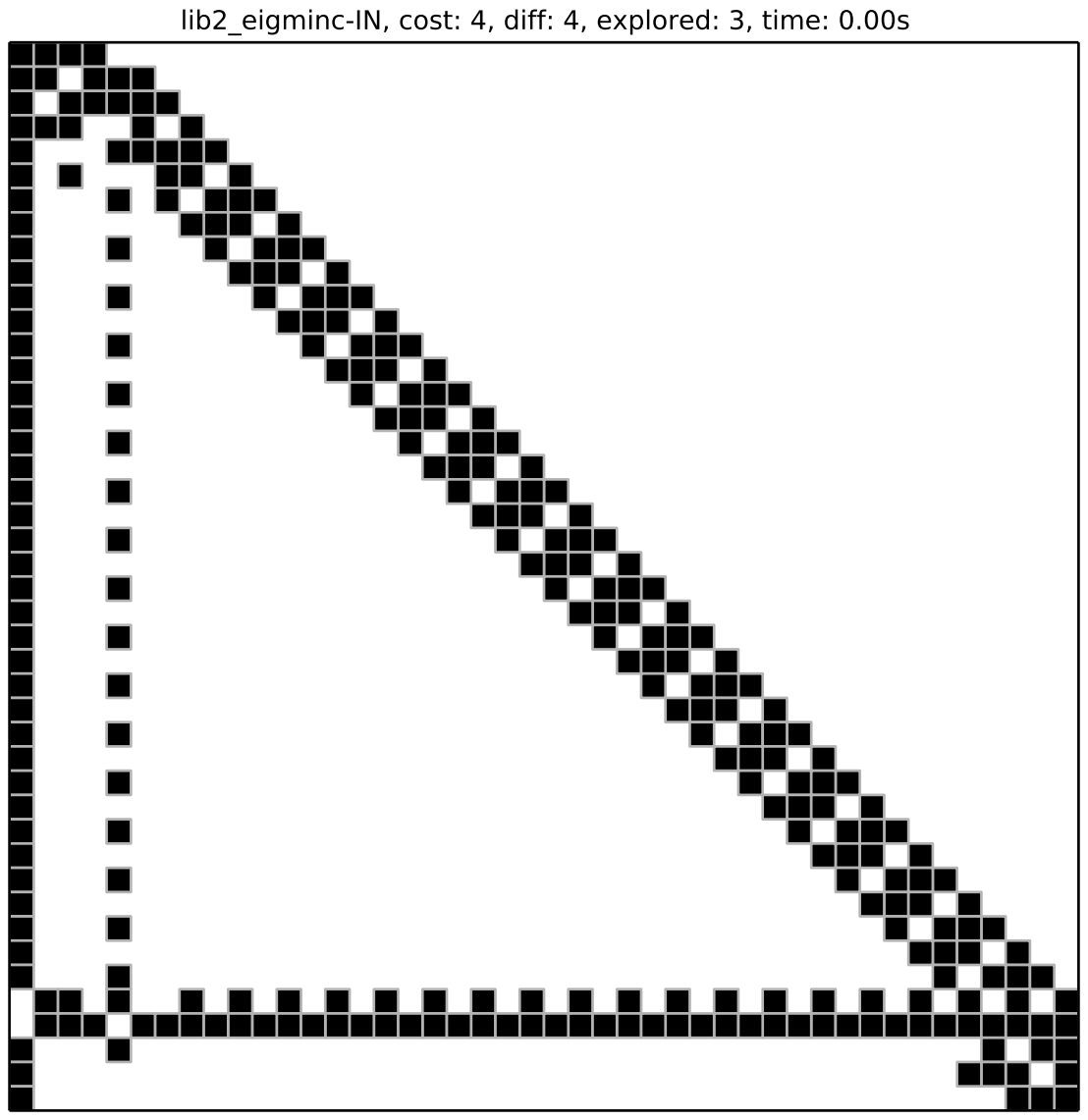
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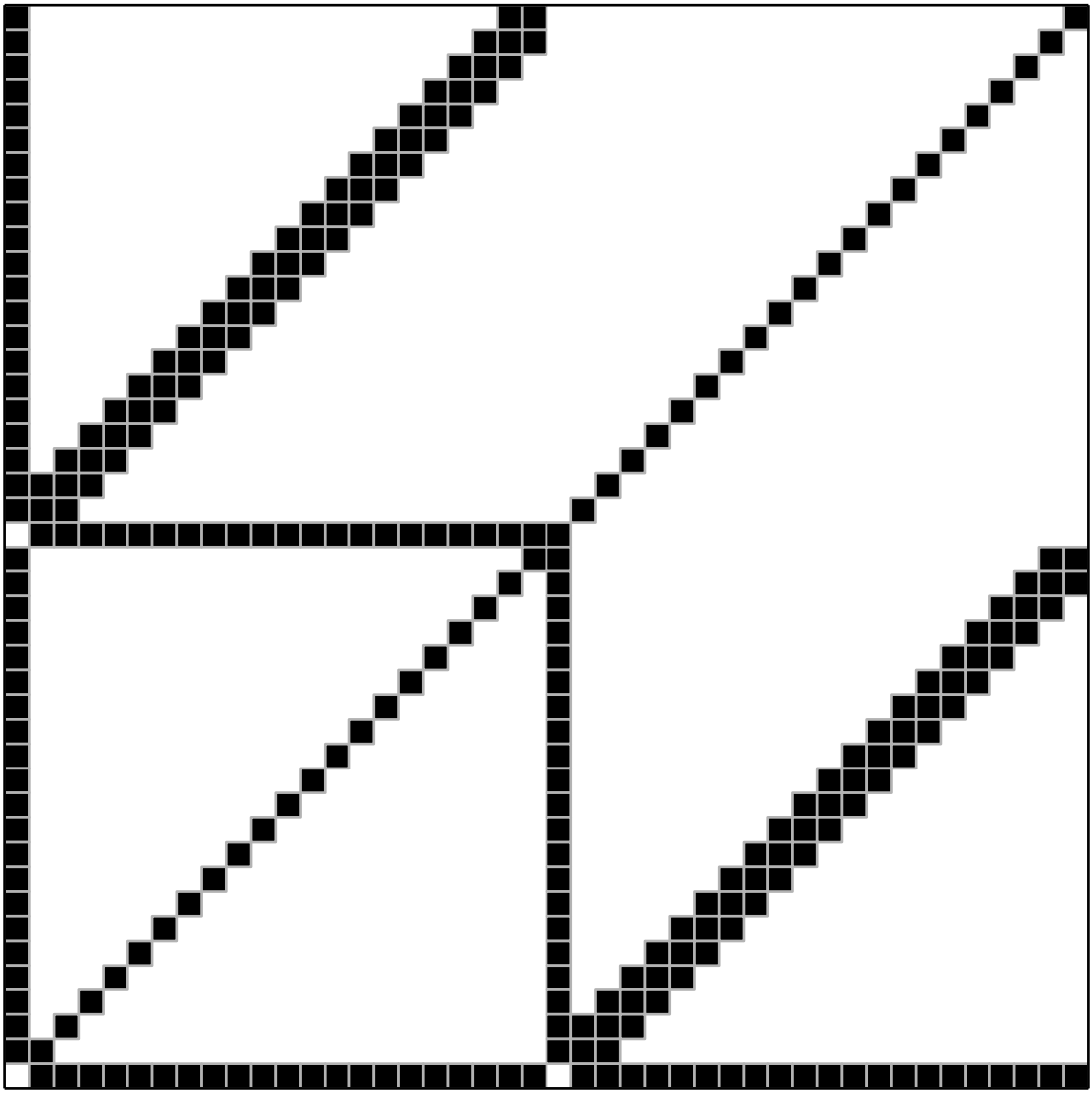

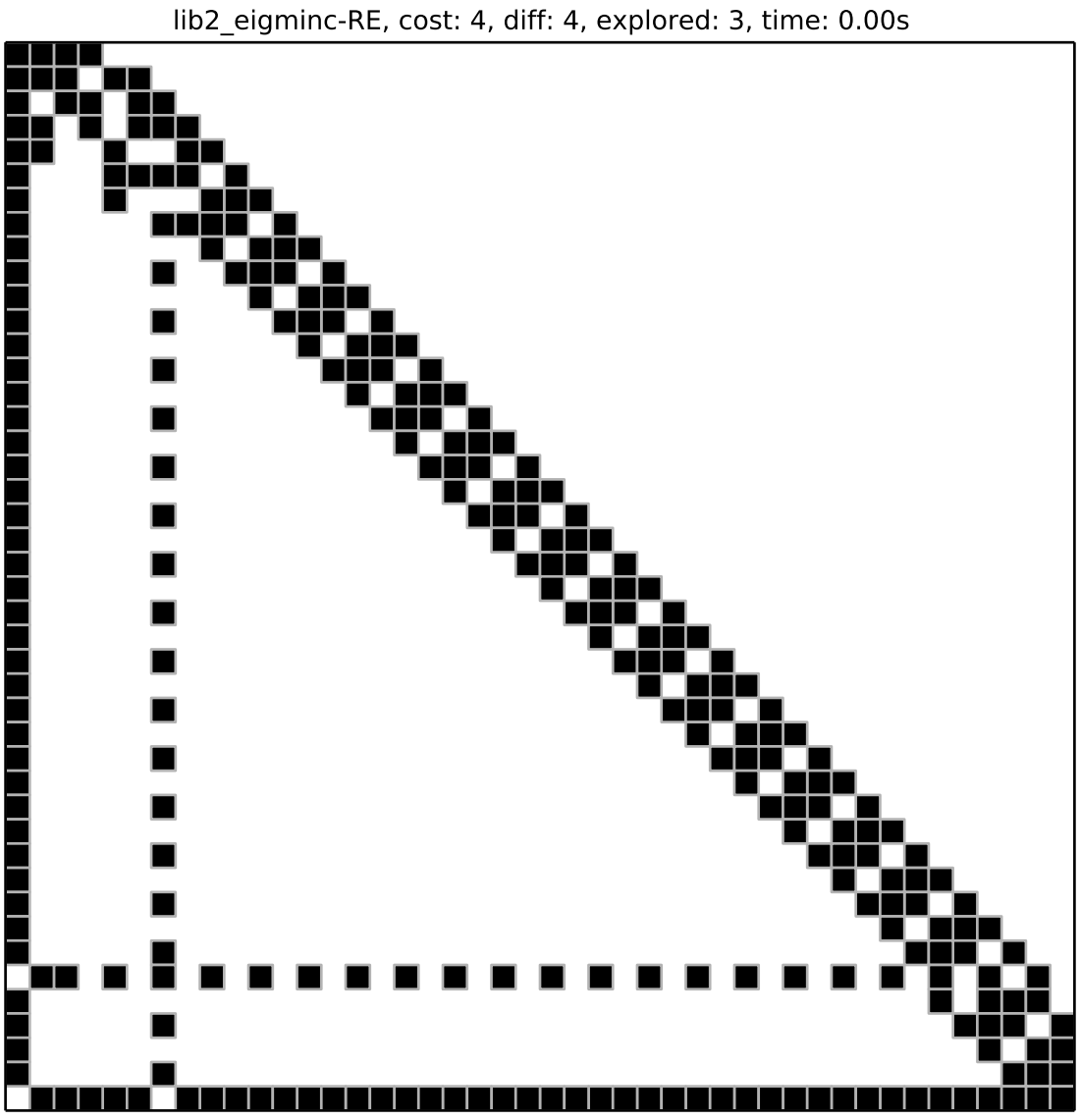
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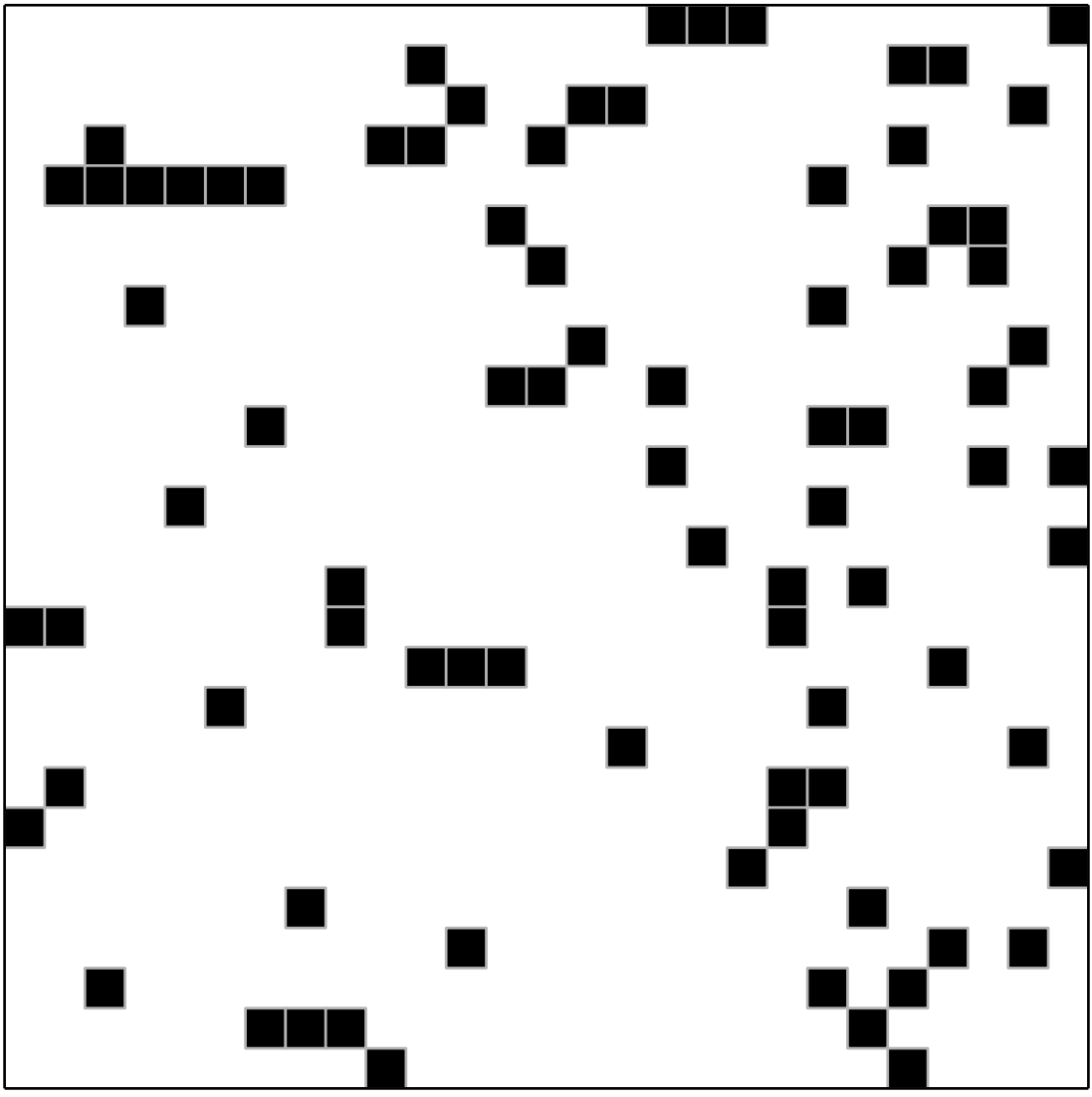
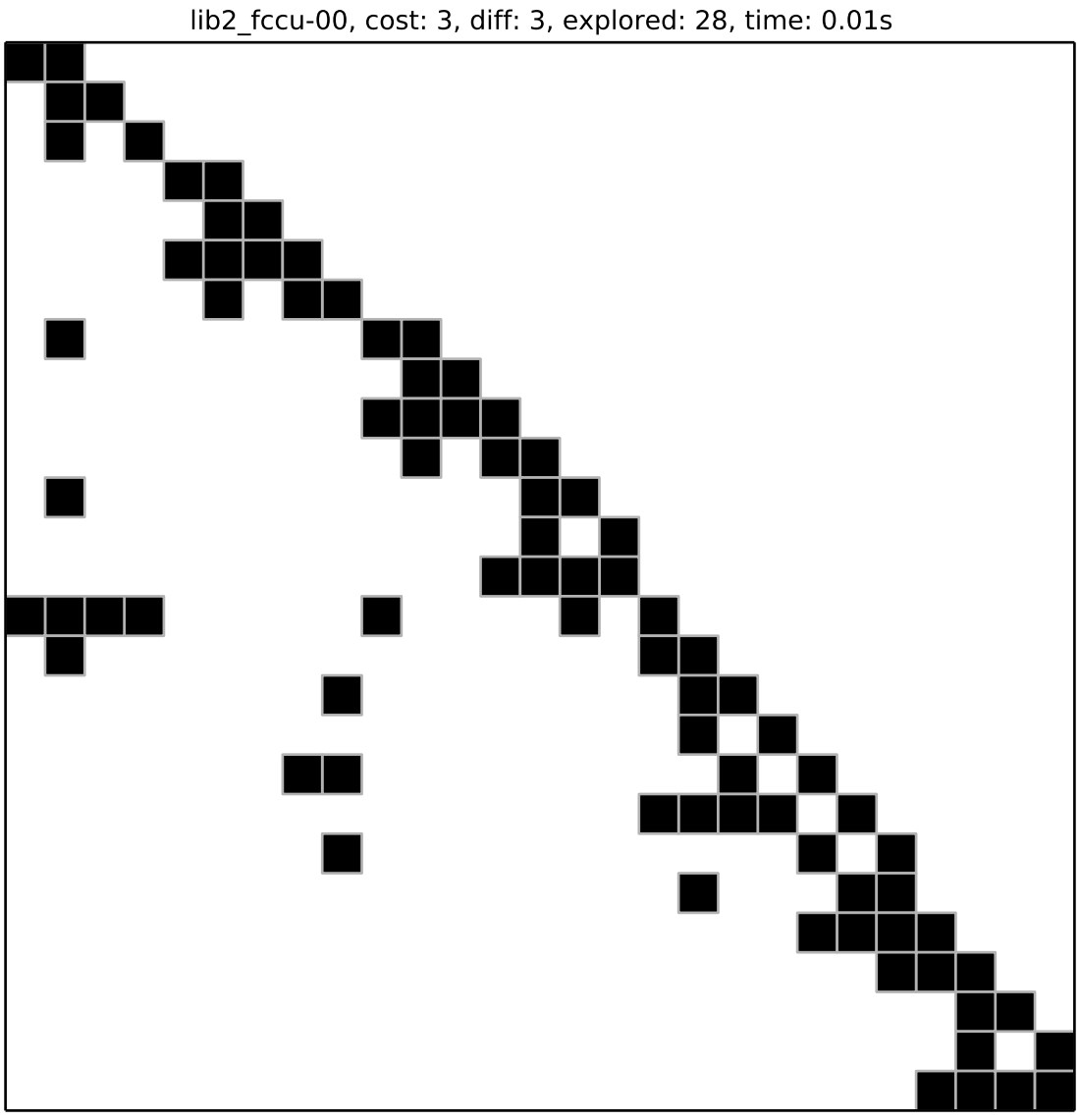
lib2_fccu-00 27x27 (83) con: 8, var: 19

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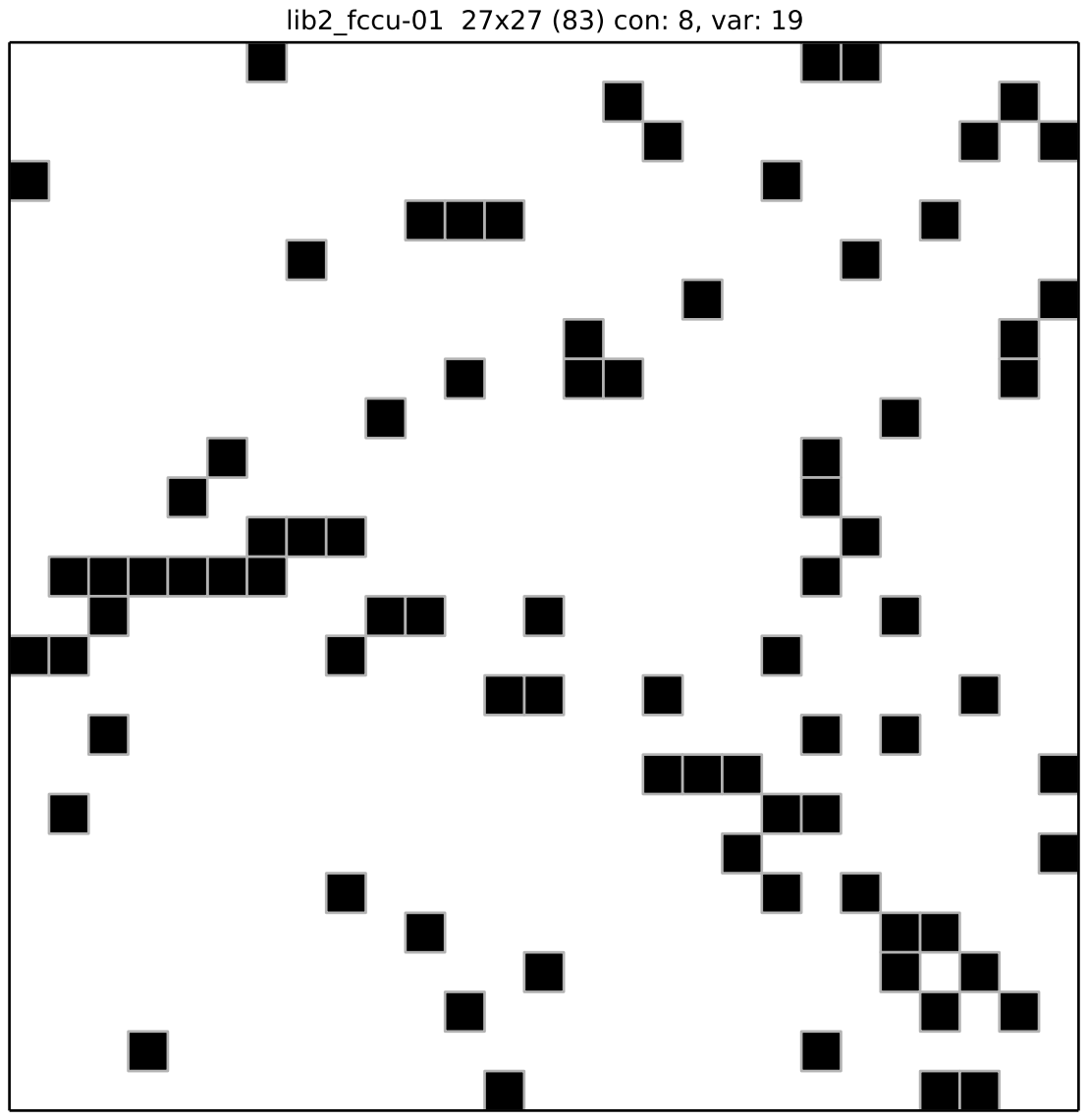
lib2_fccu-01 27x27 (83) con: 8, var: 19

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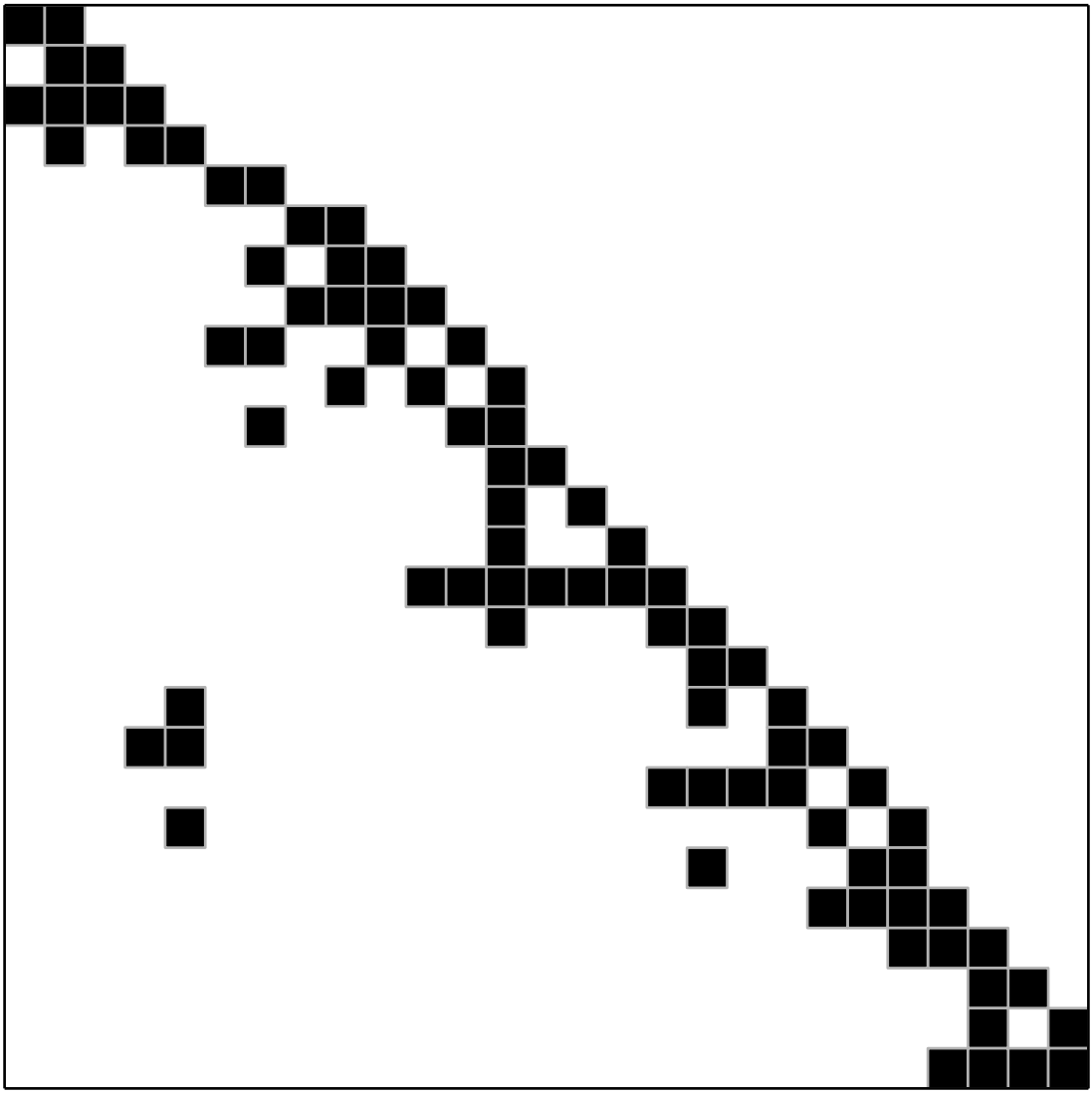

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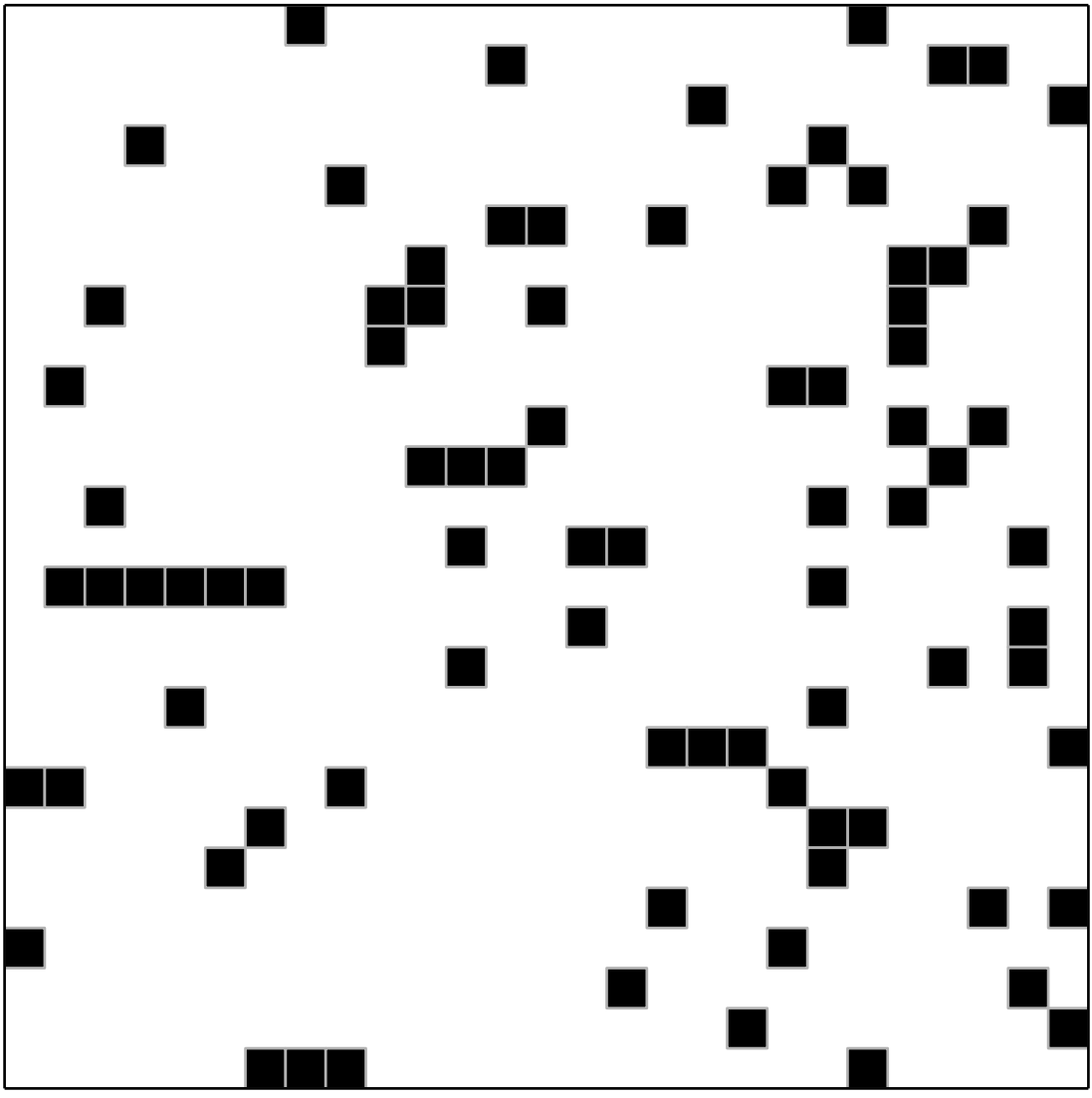

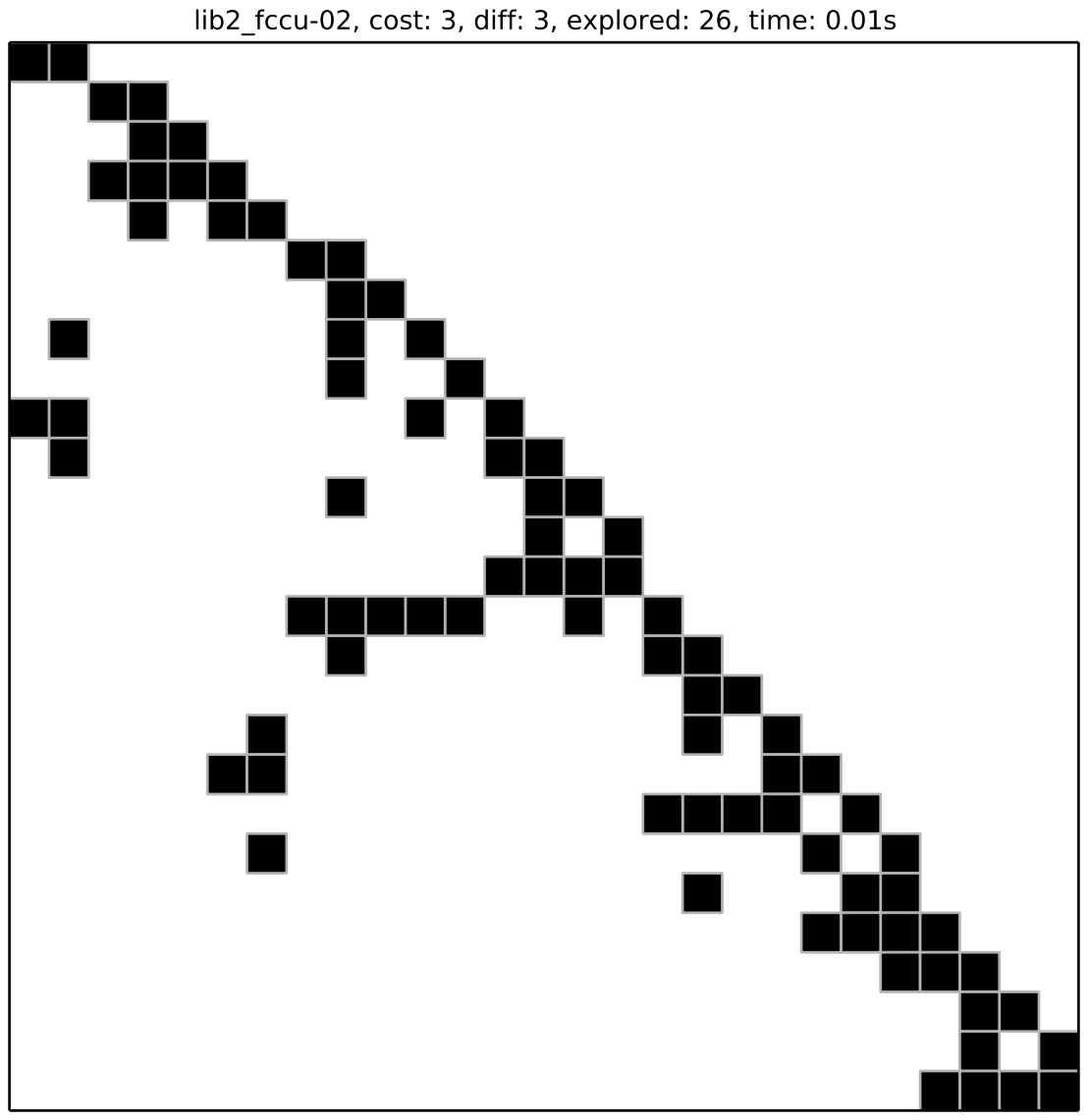
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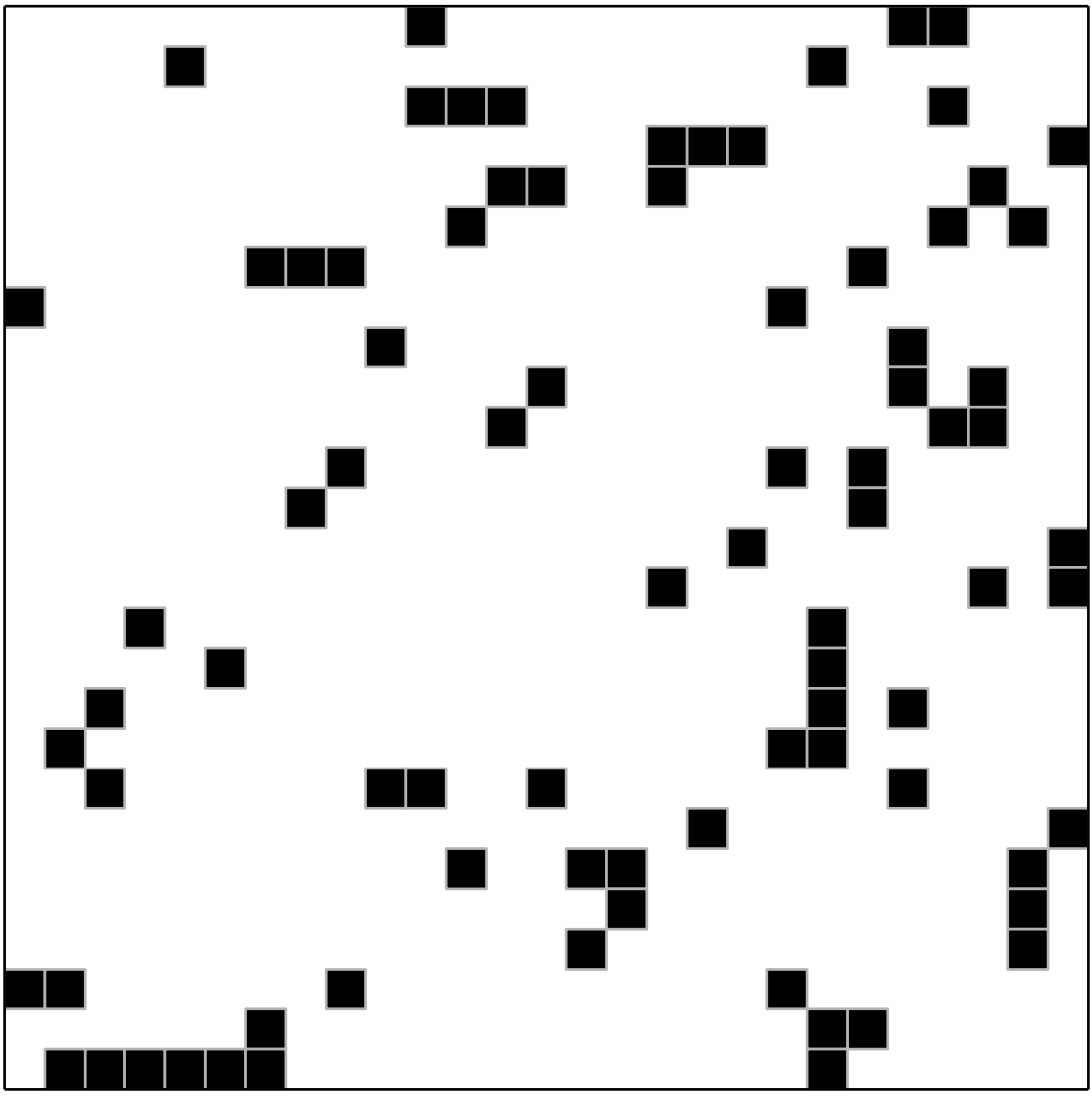
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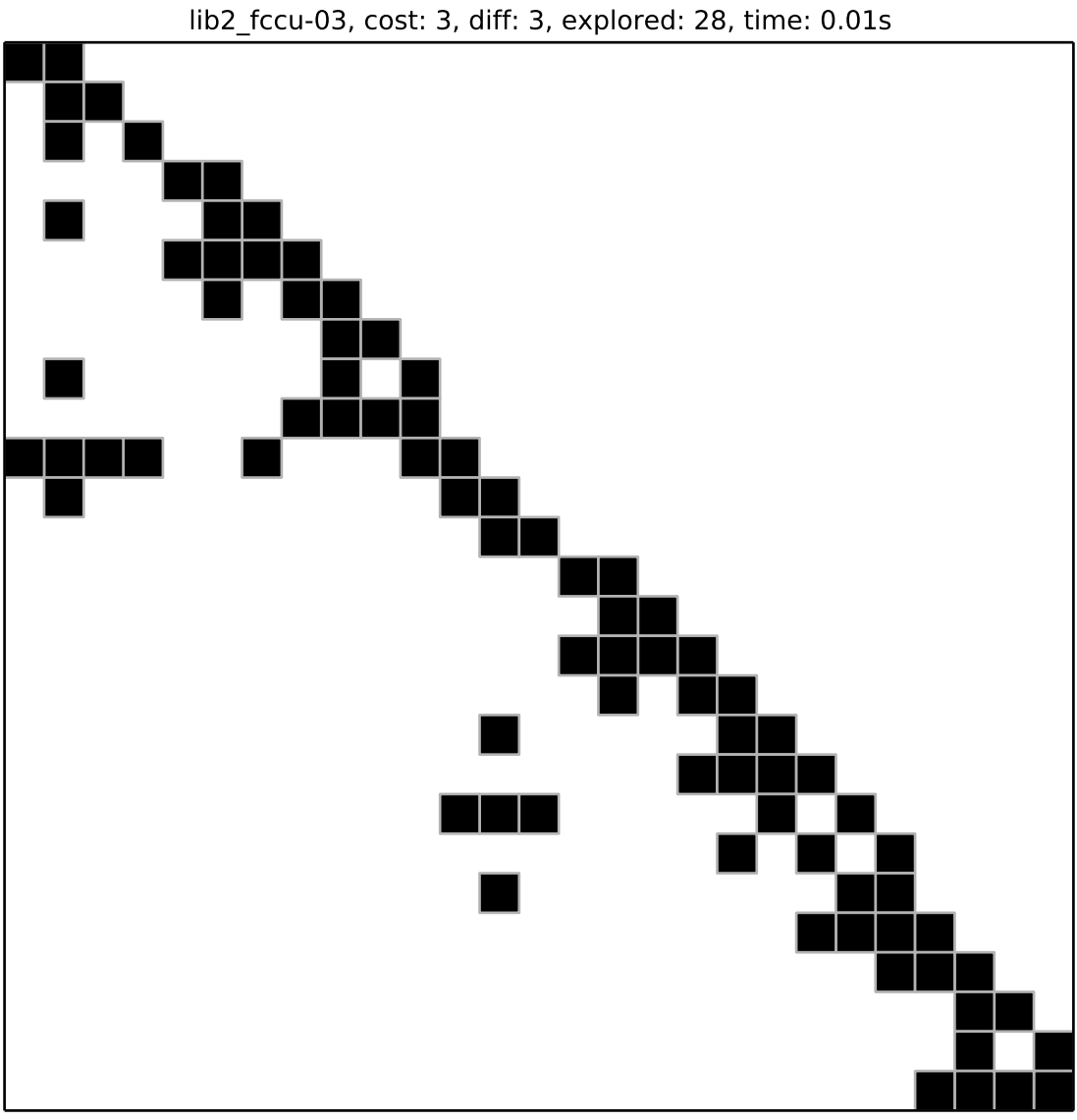
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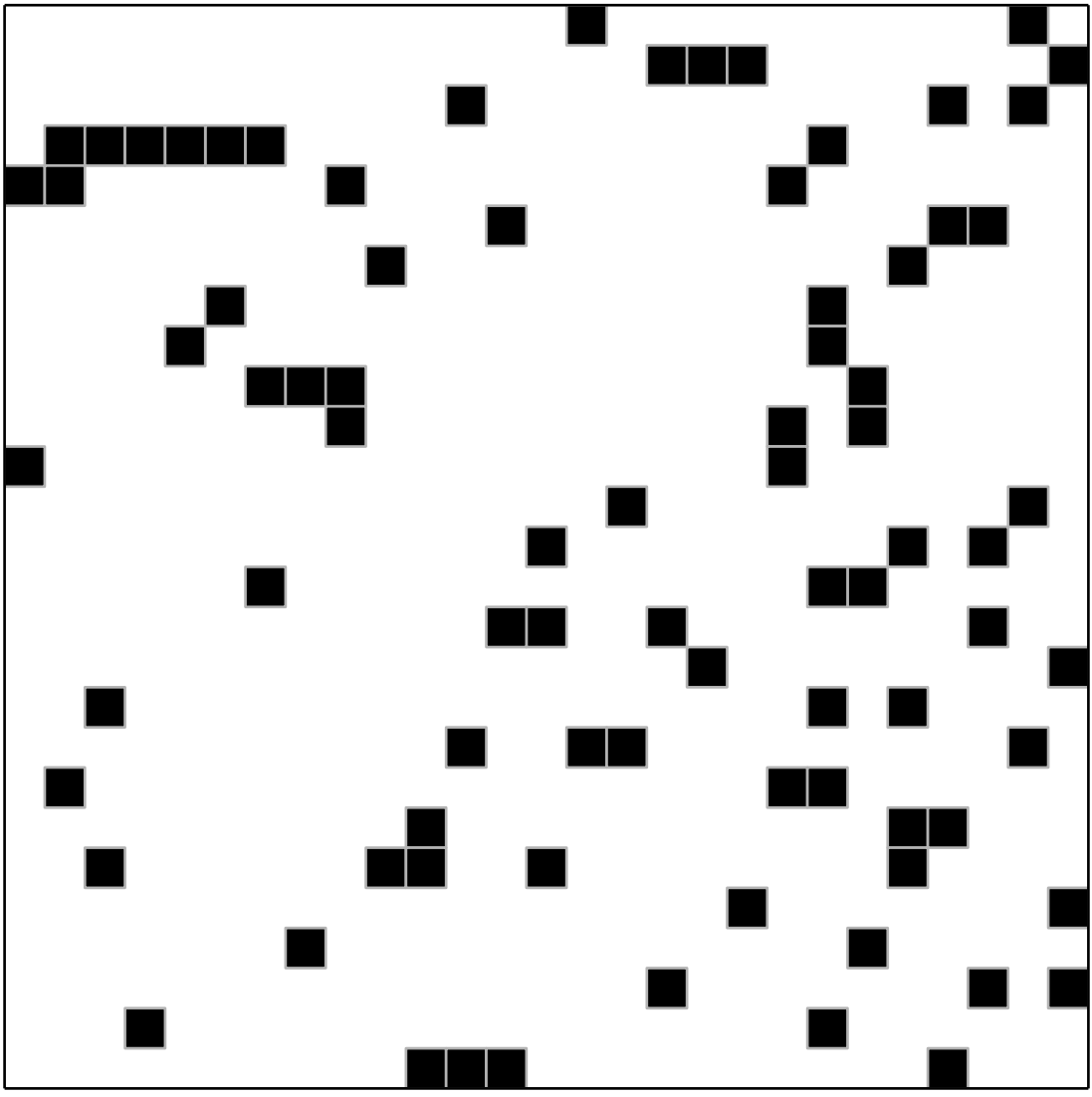
lib2_fccu-04 27x27 (83) con: 8, var: 19



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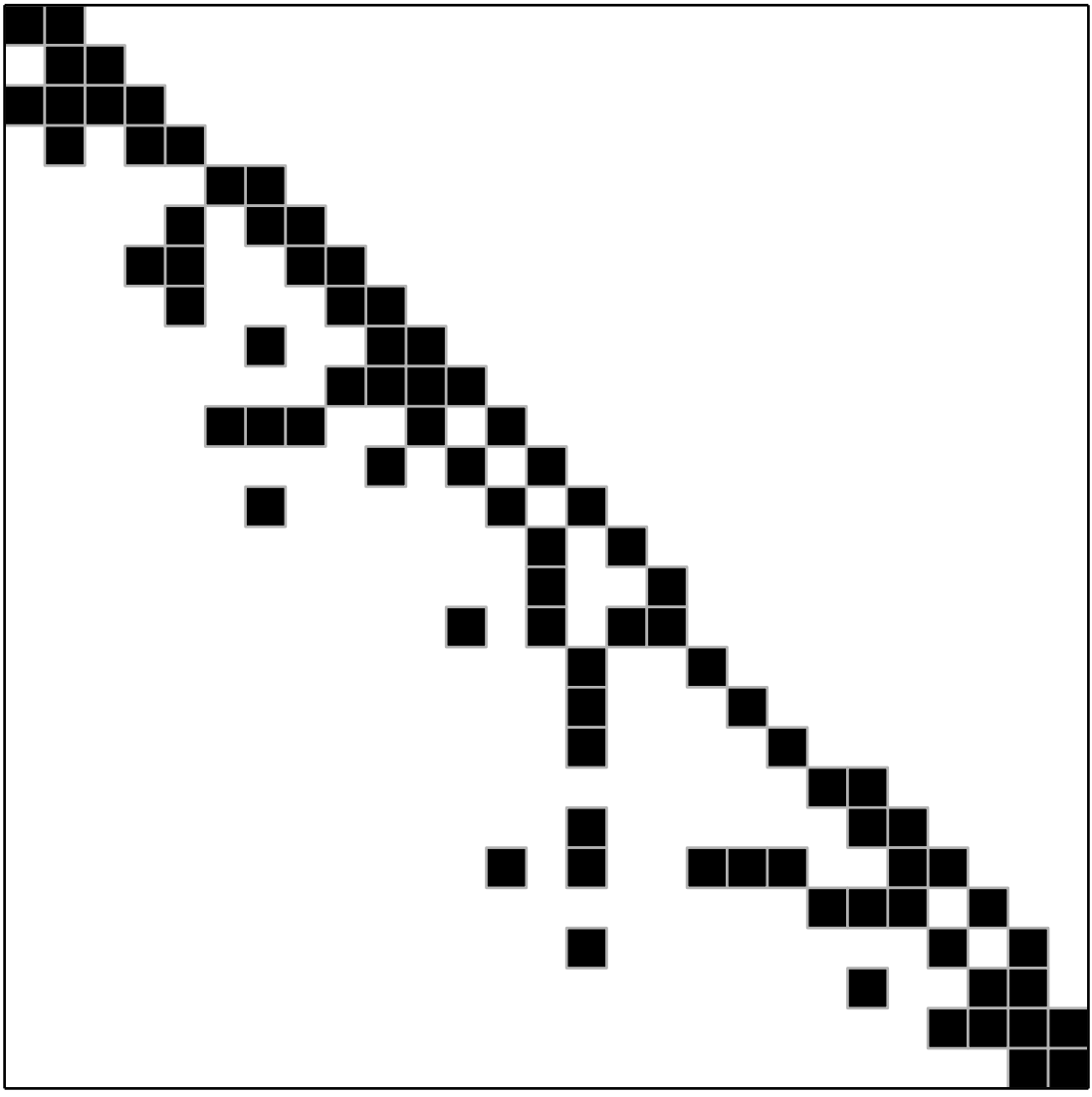
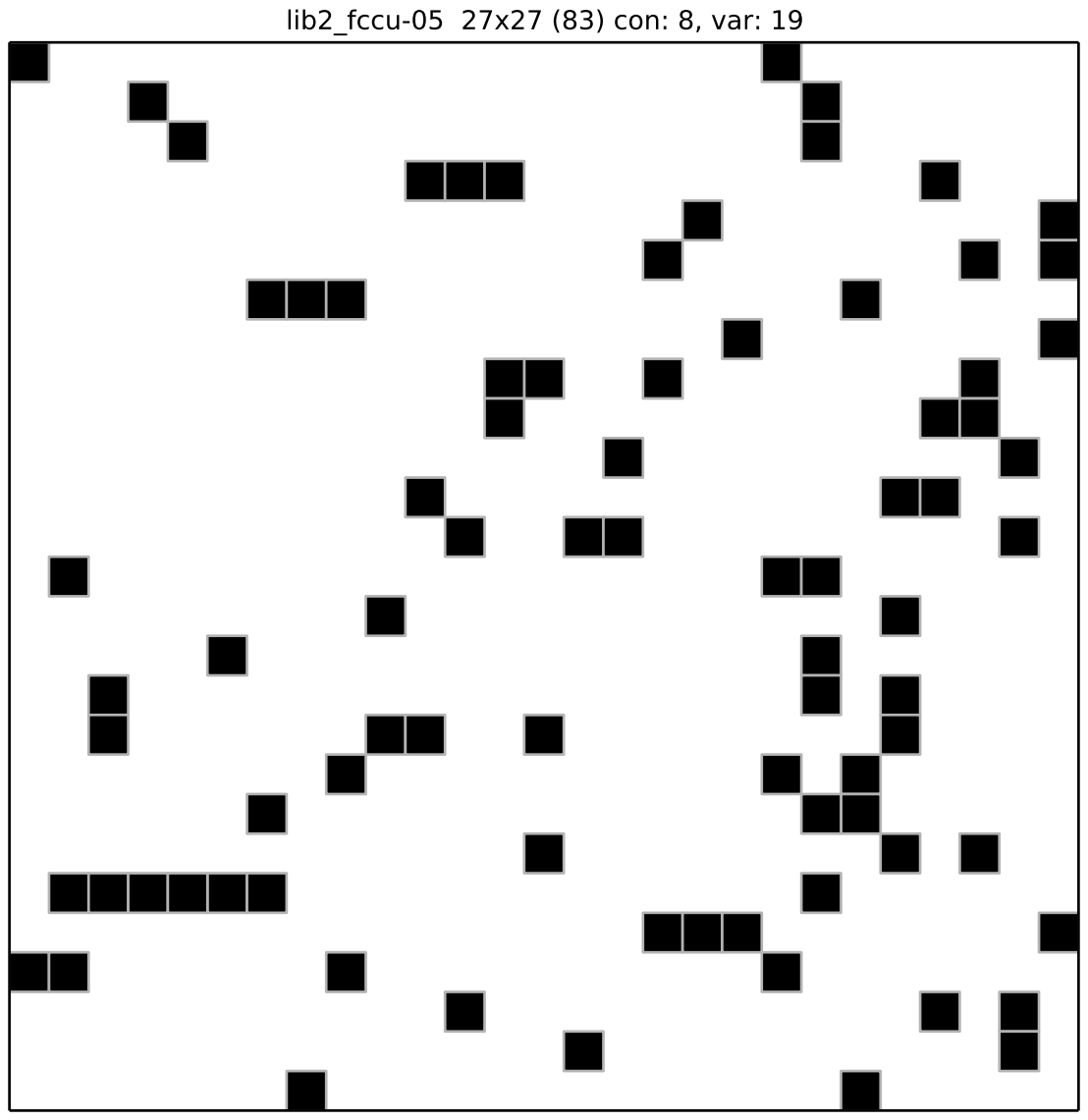
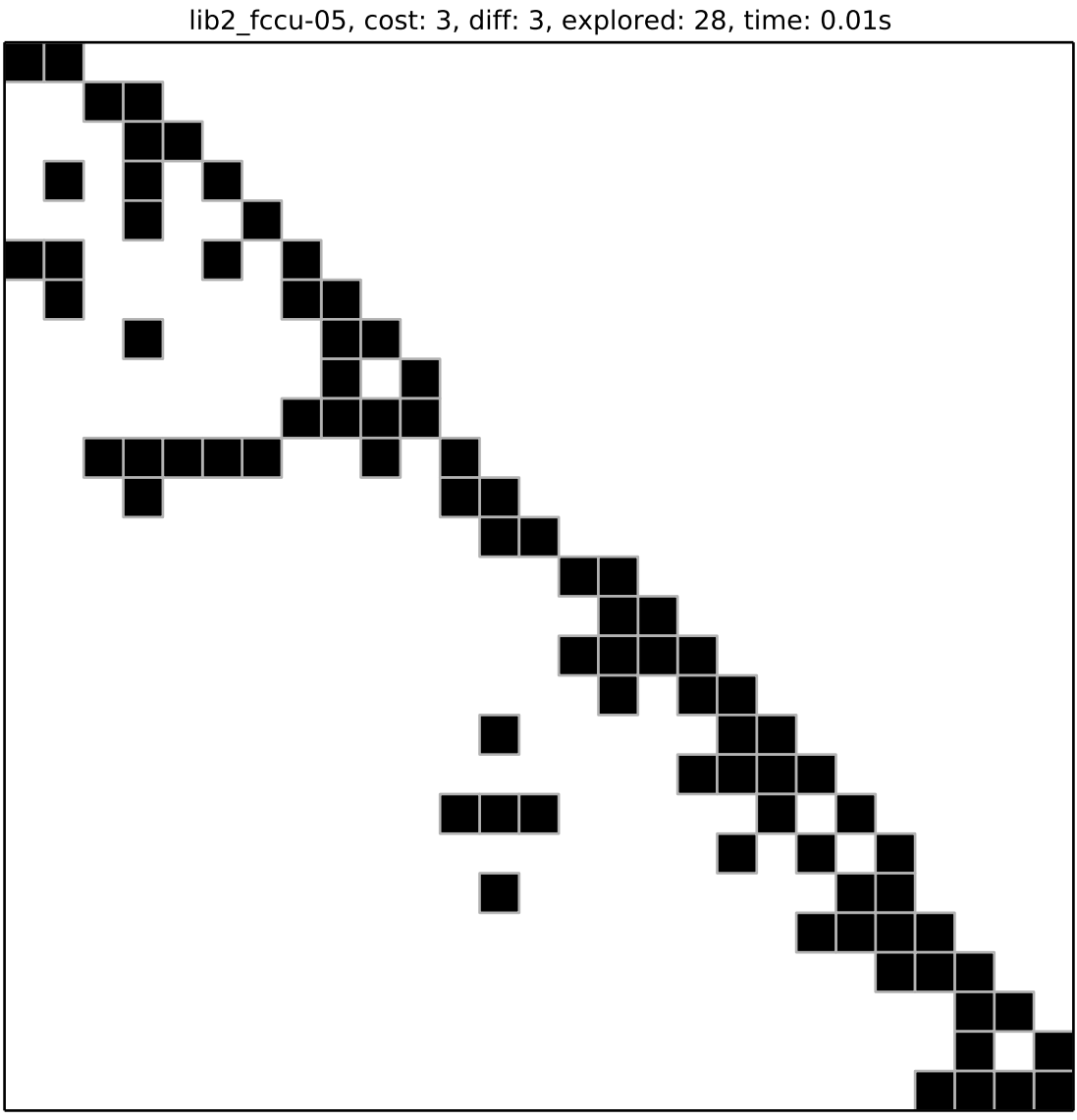



lib2_fccu-05 27x27 (83) con: 8, var: 19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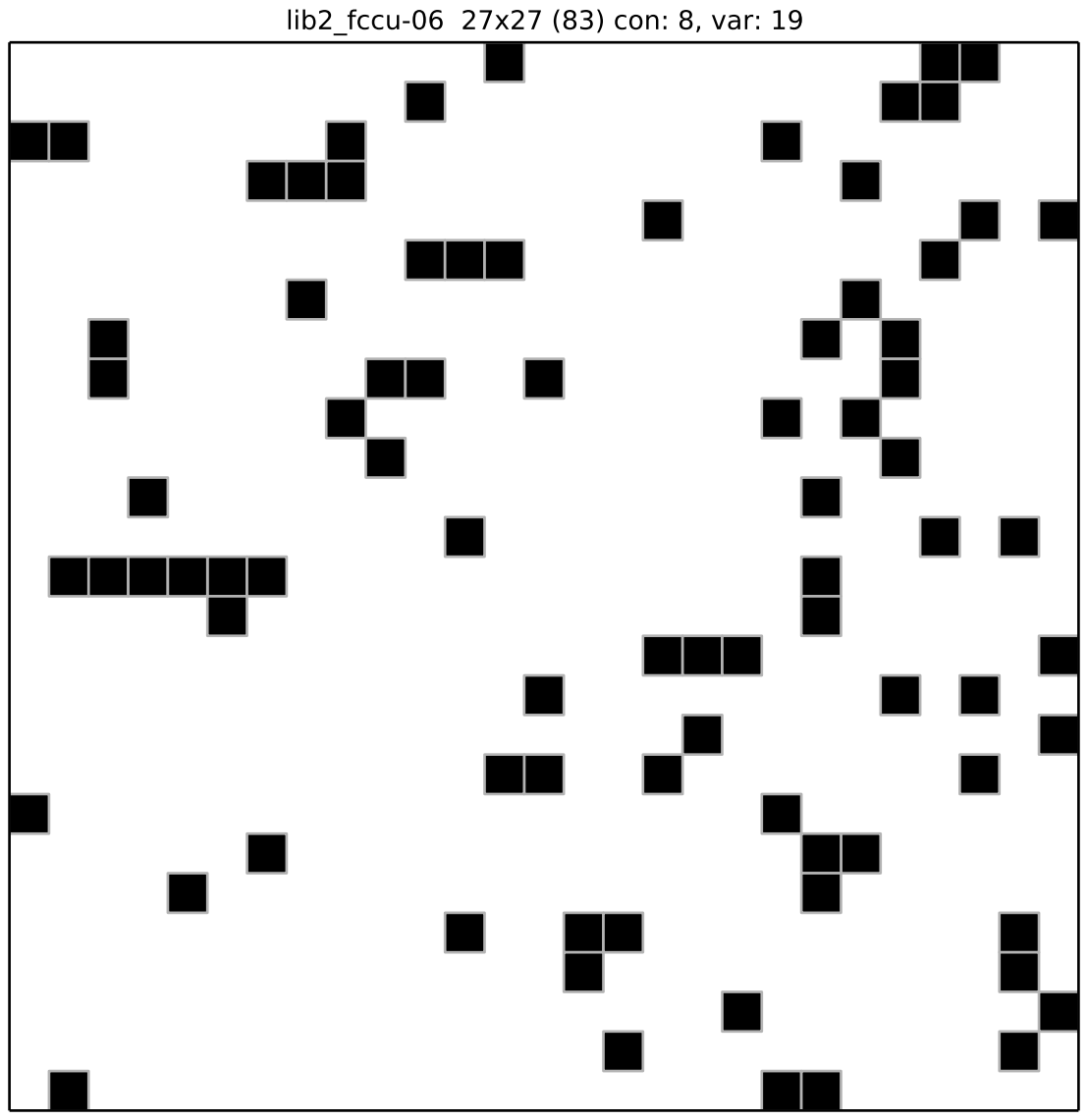
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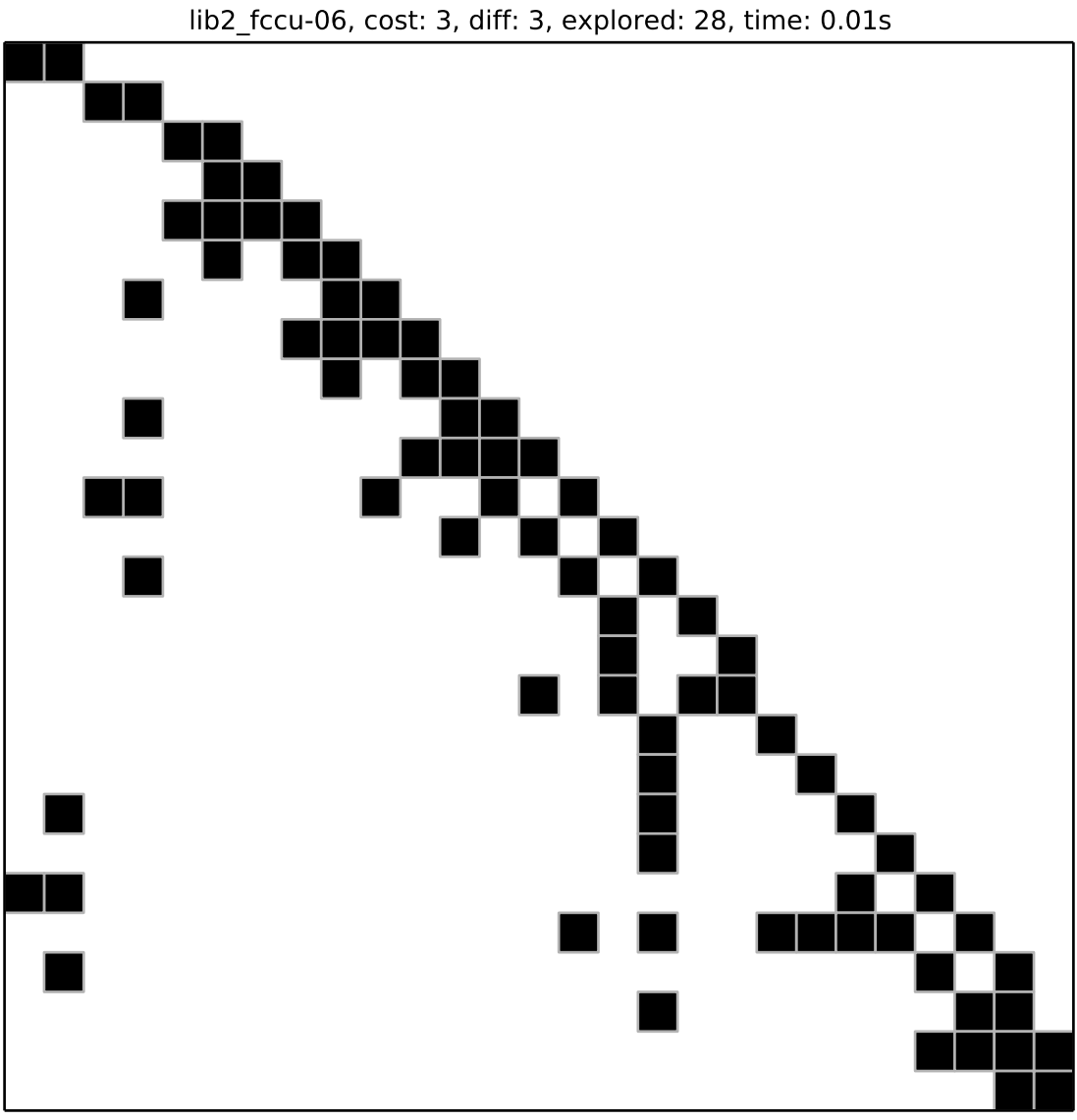
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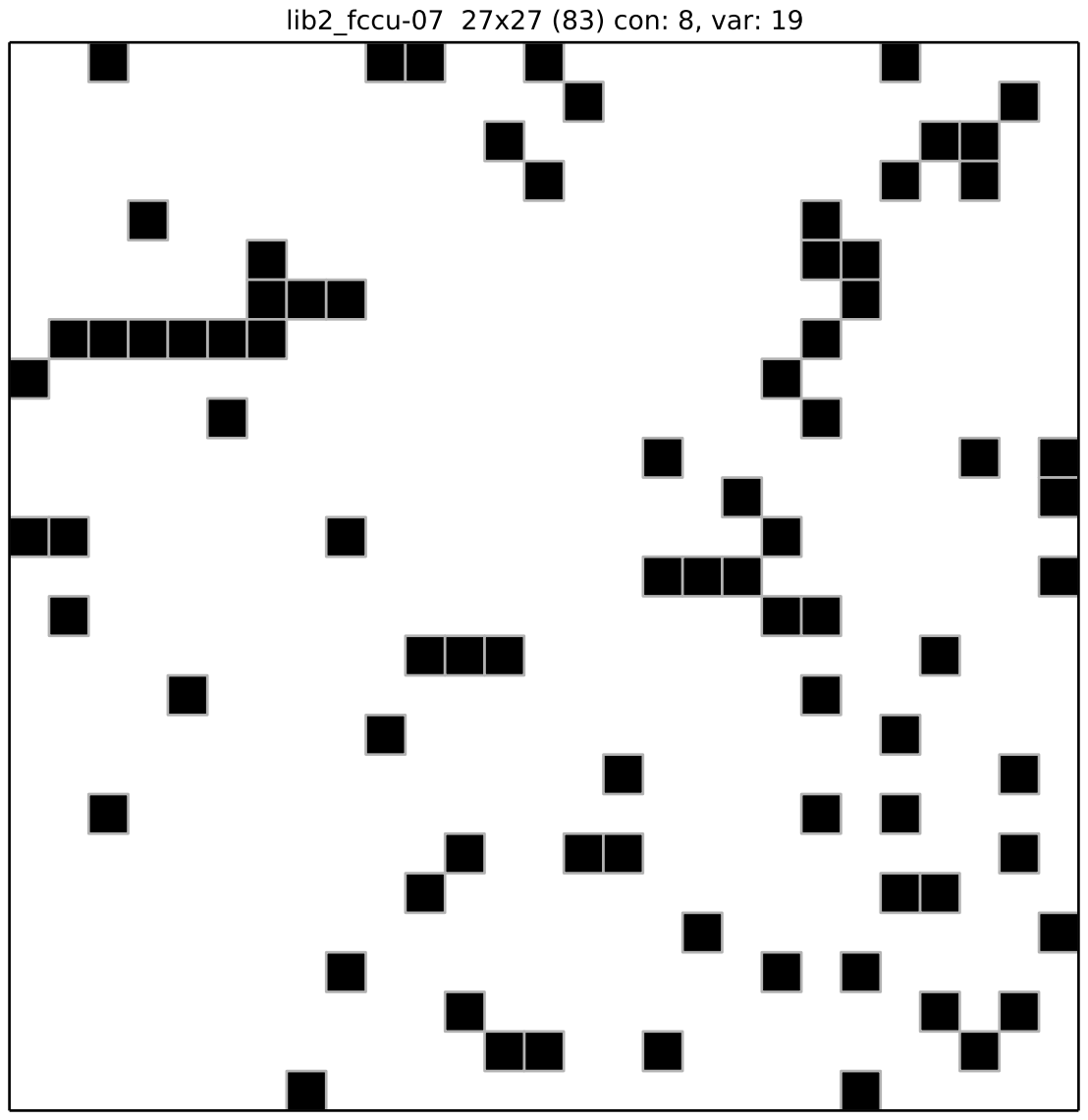
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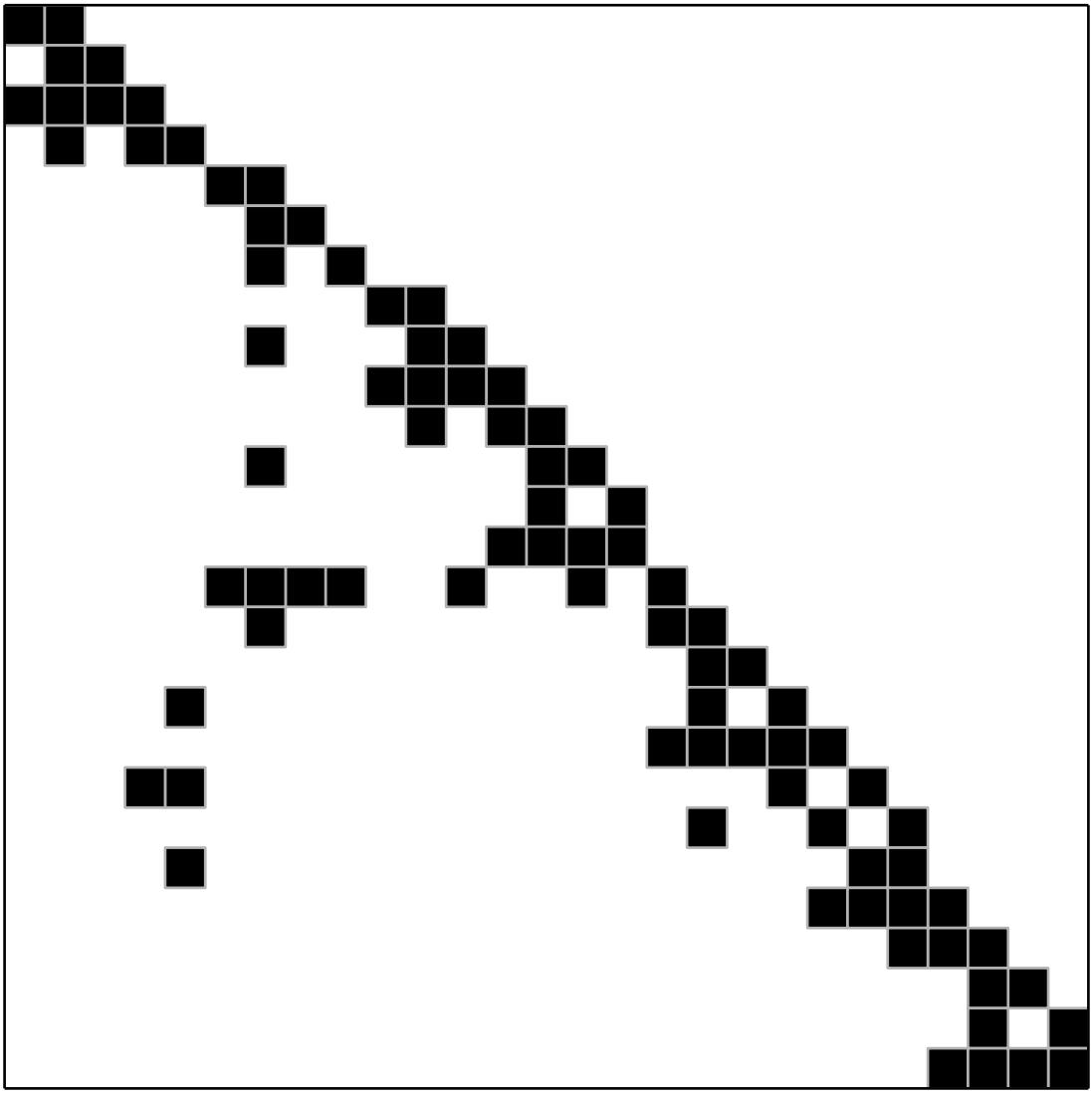

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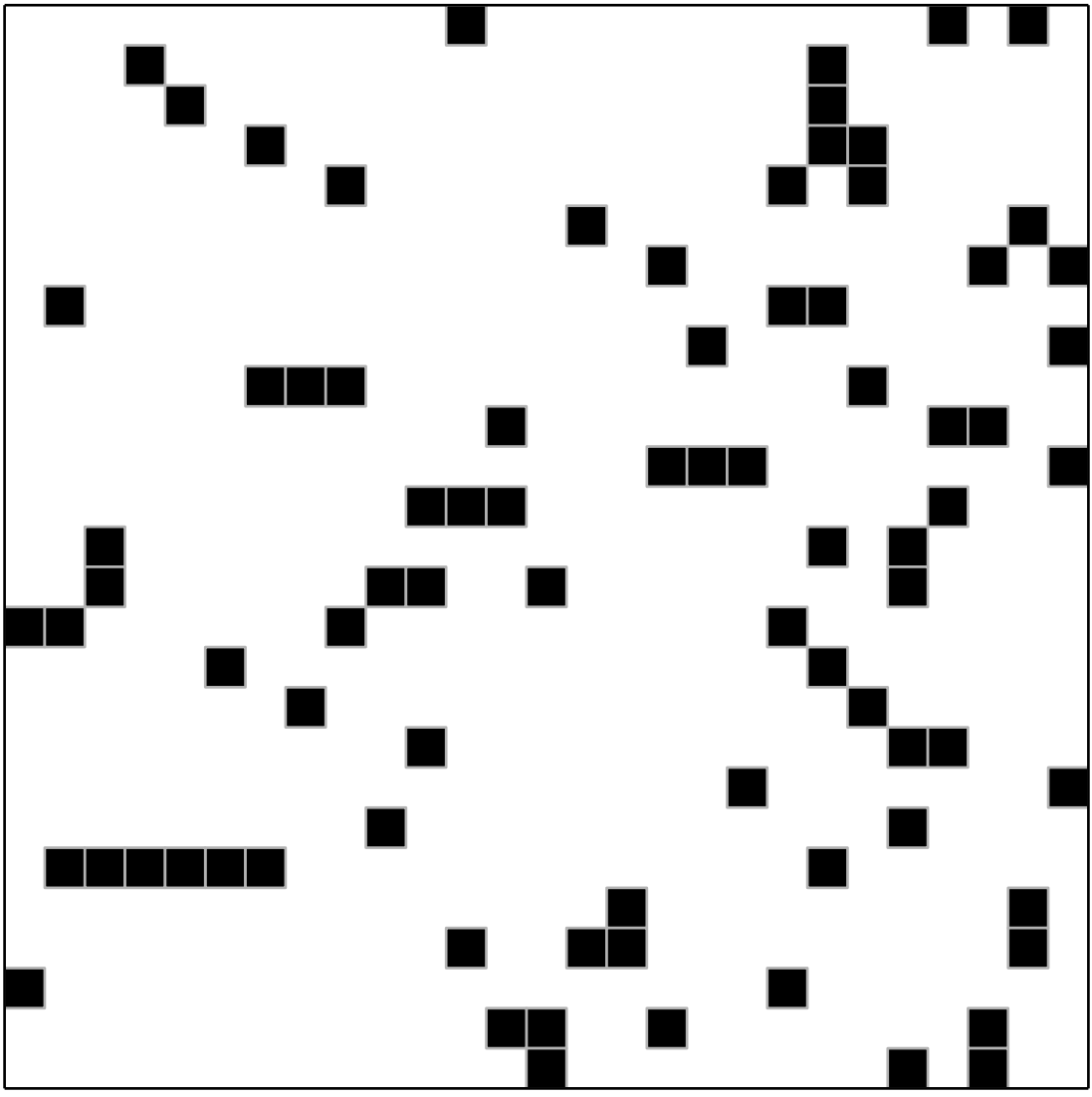

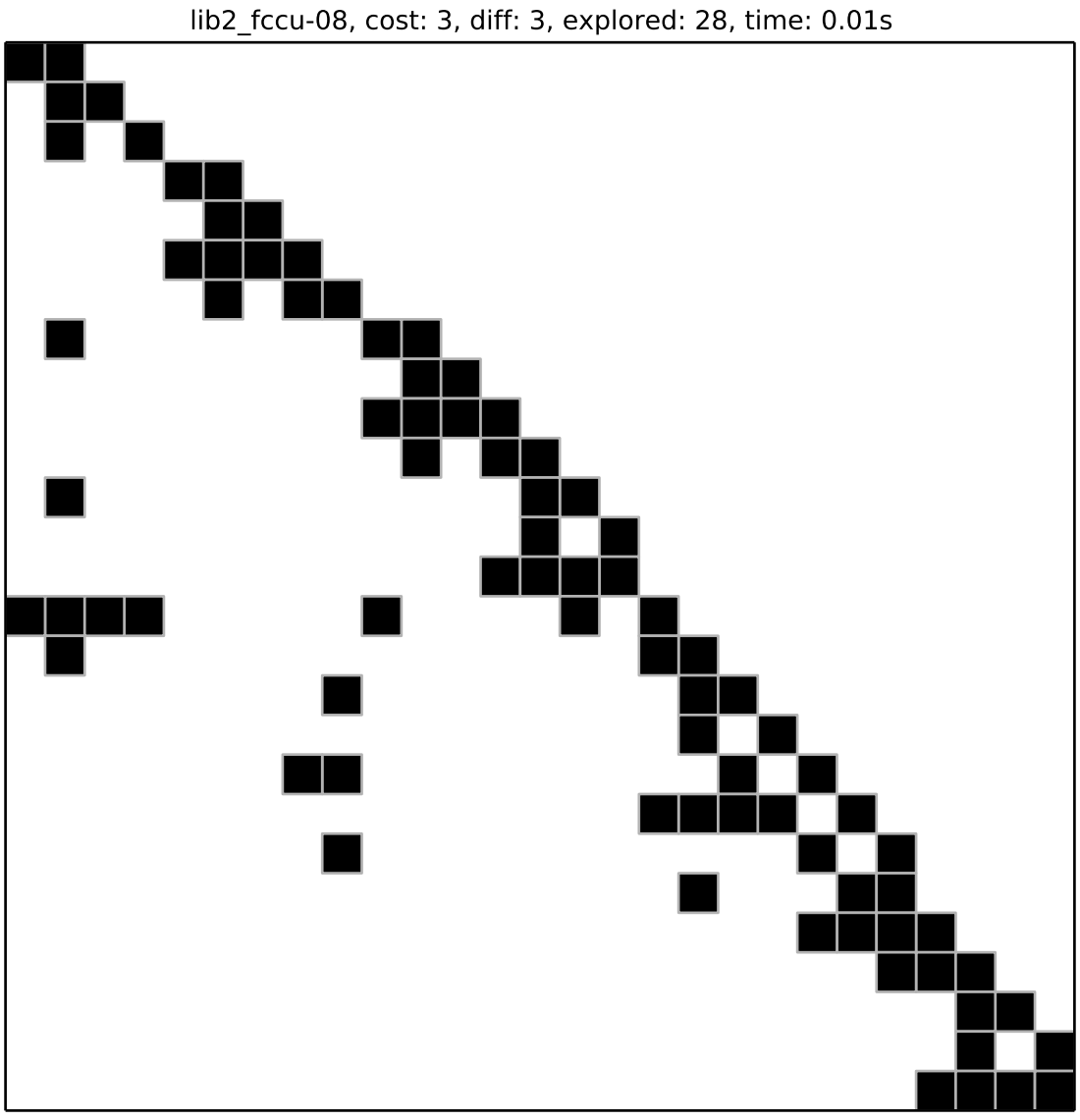
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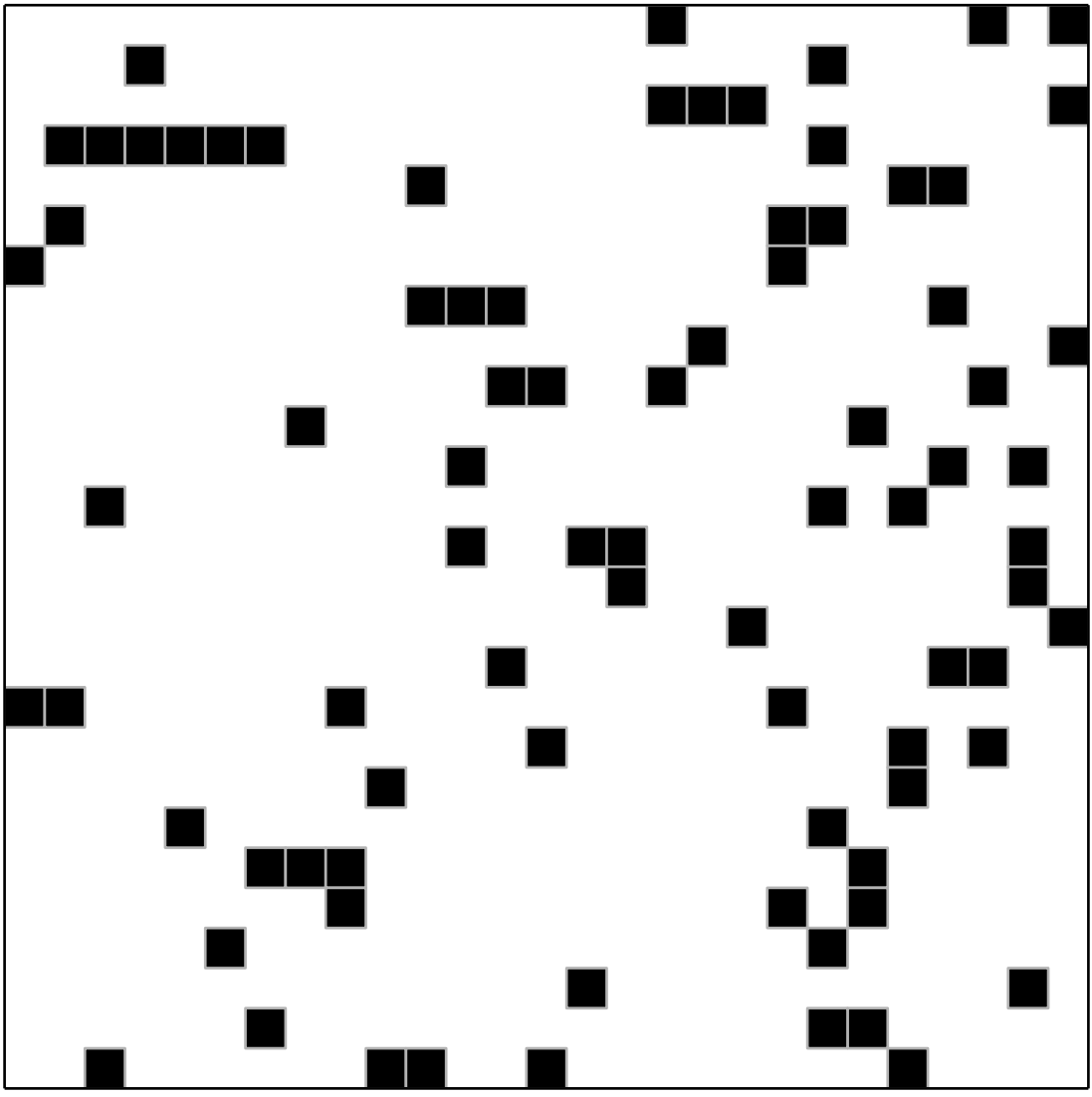

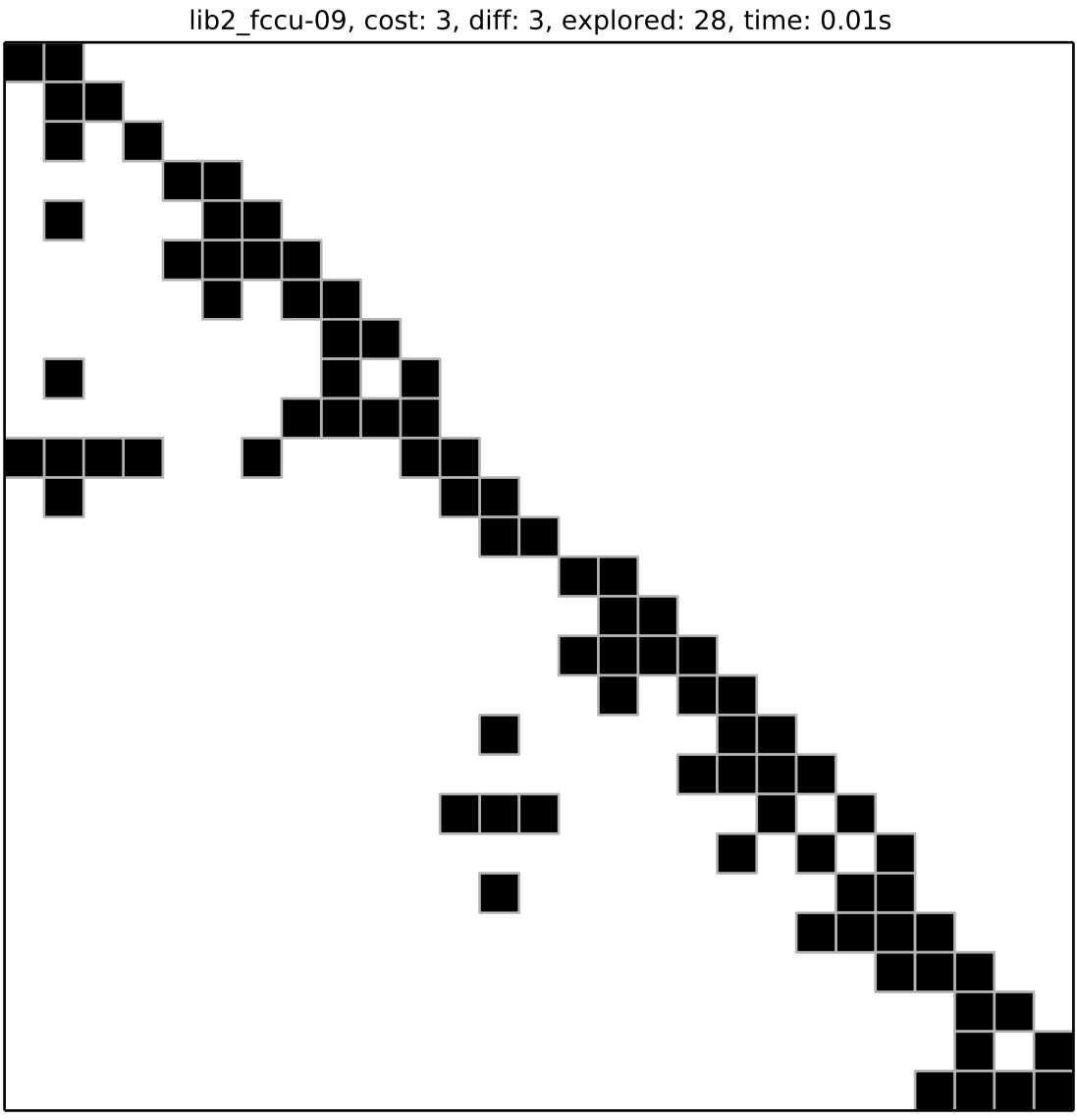
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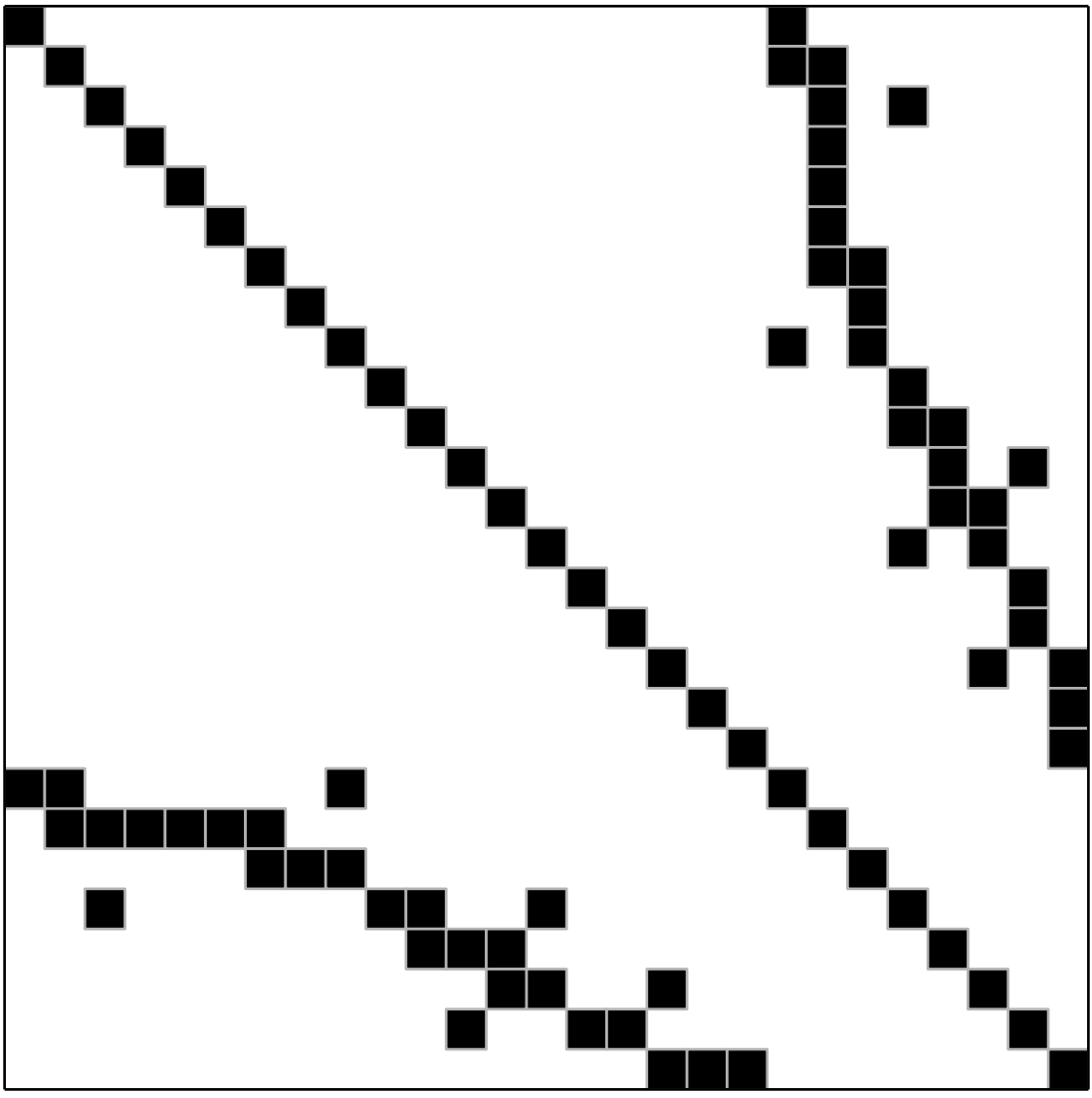
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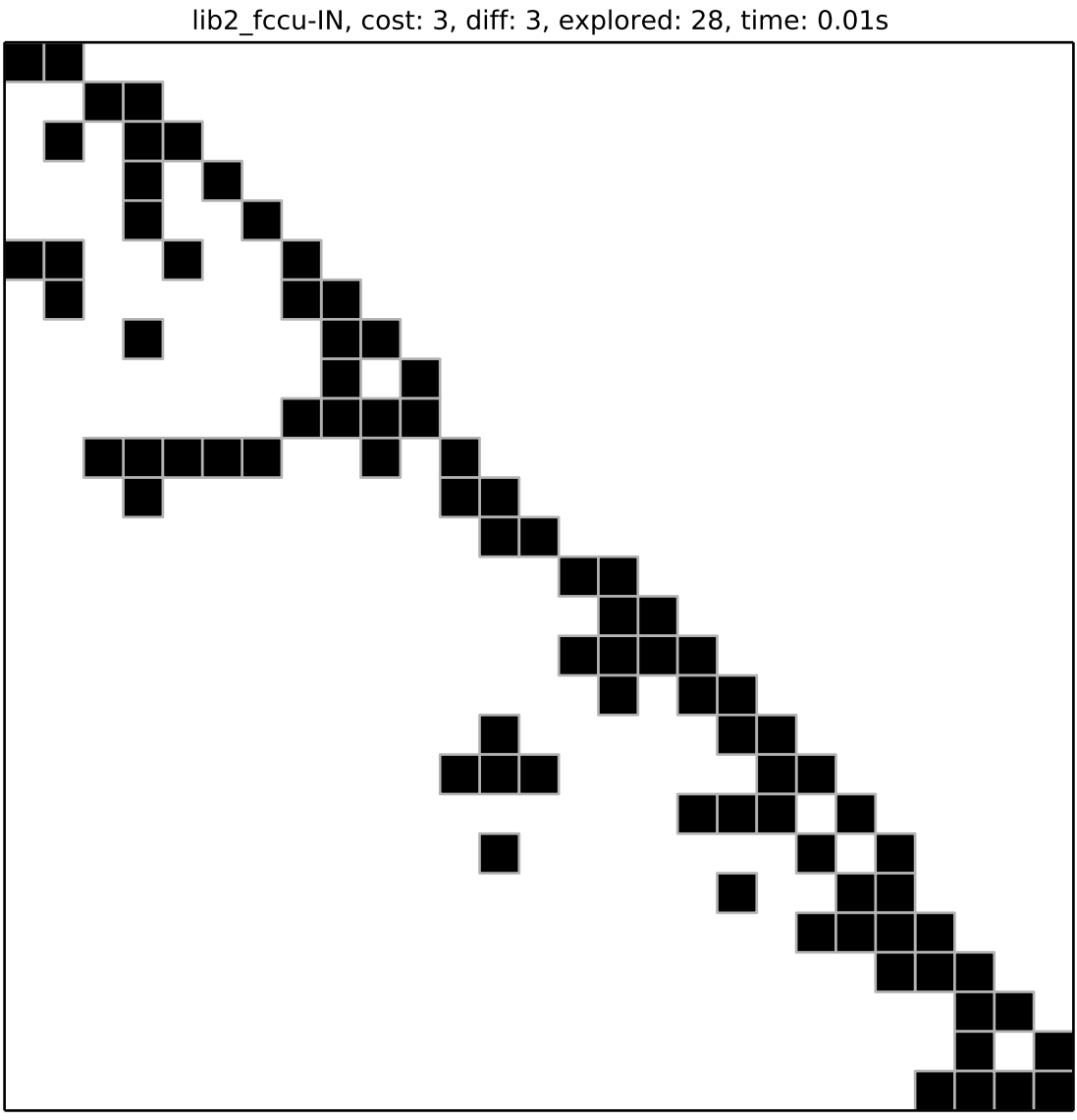
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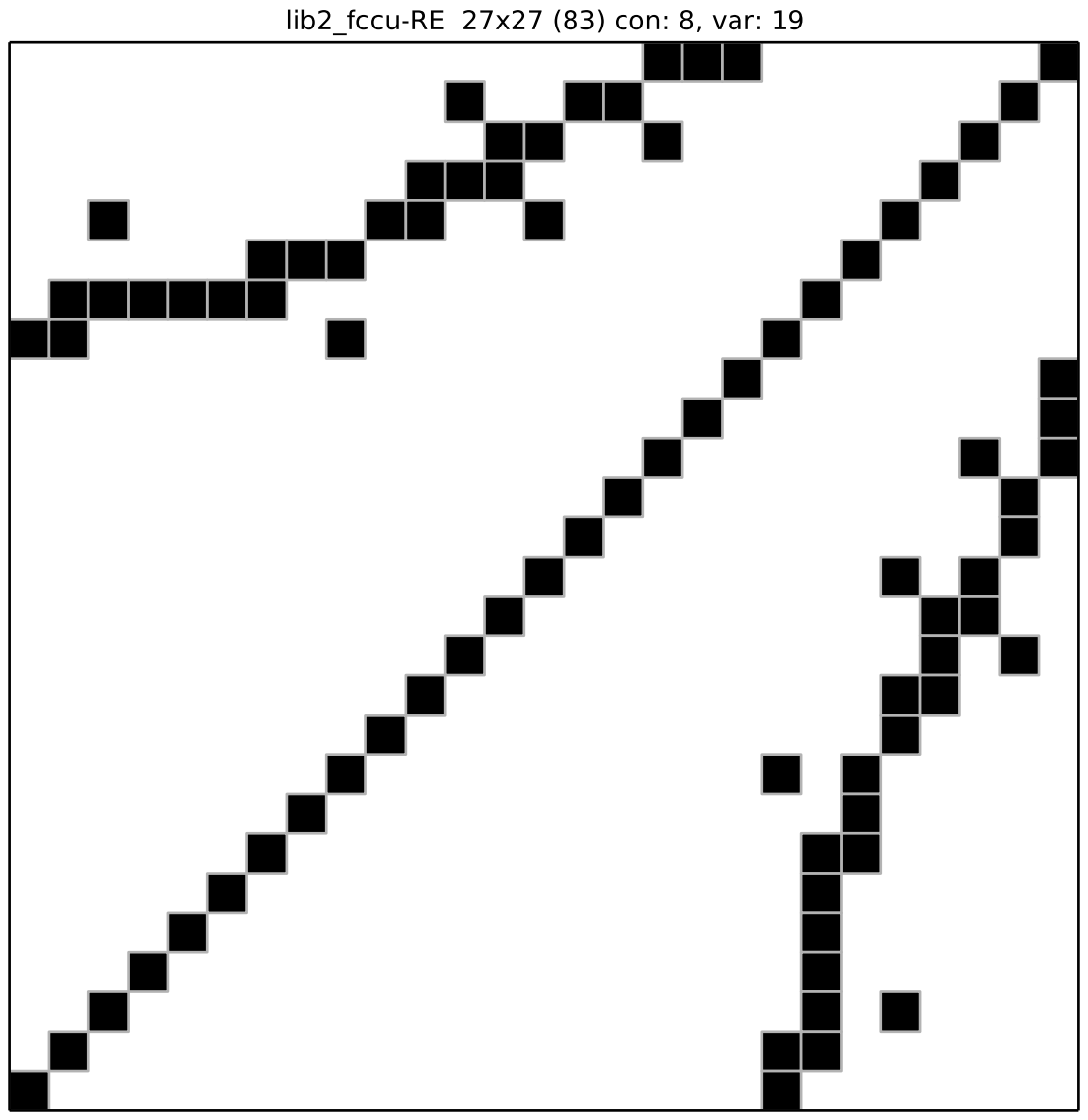
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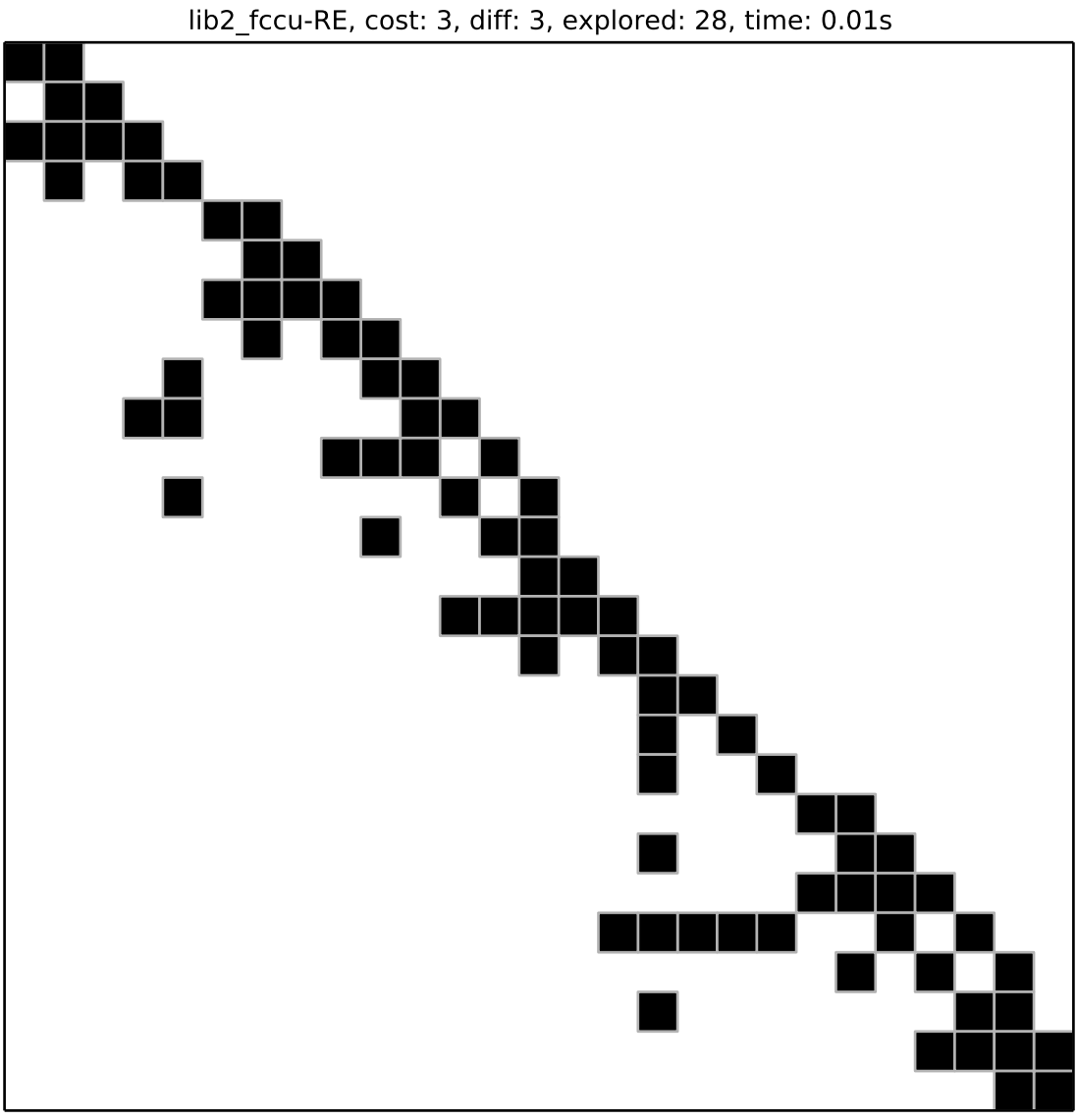
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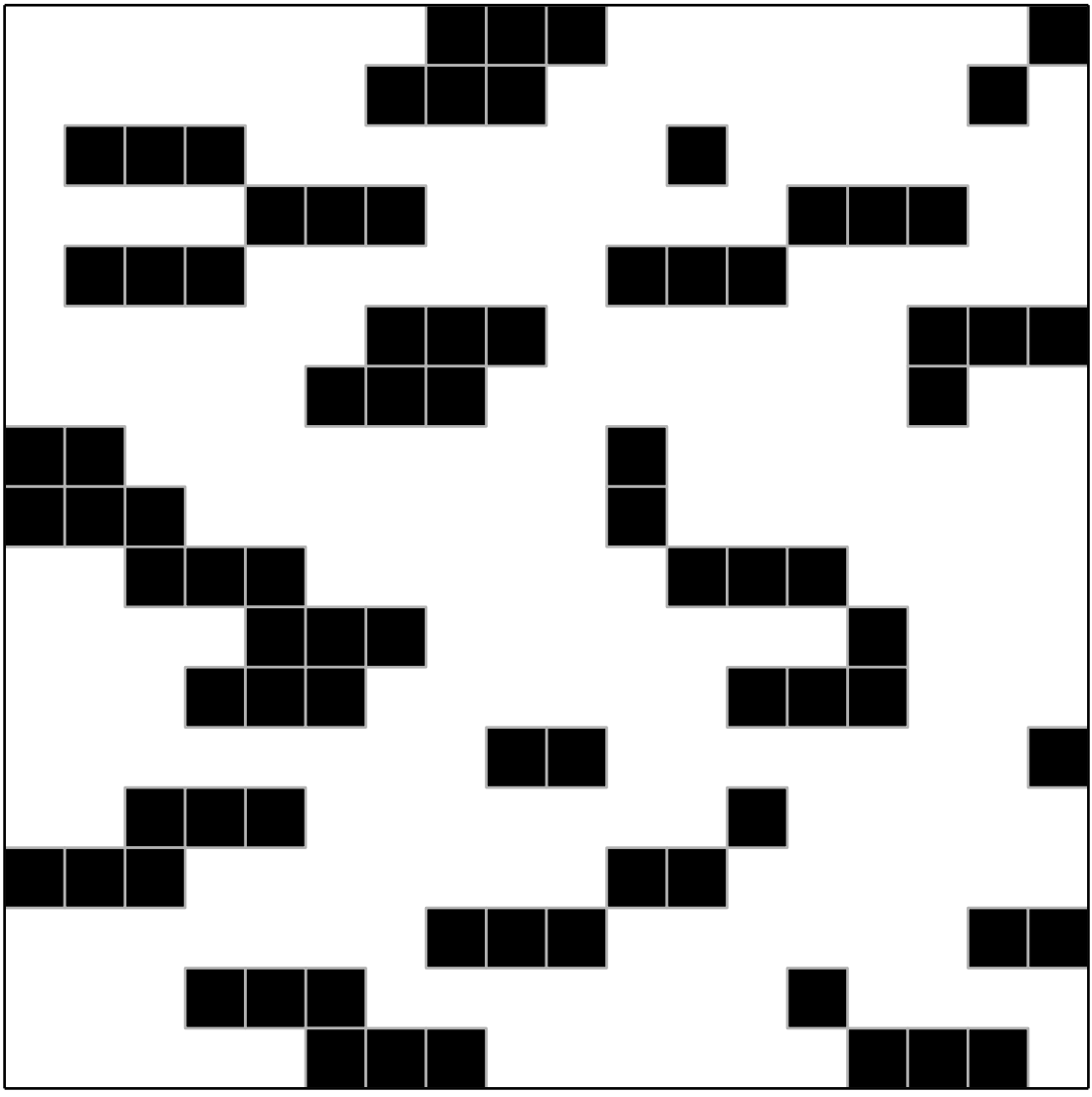
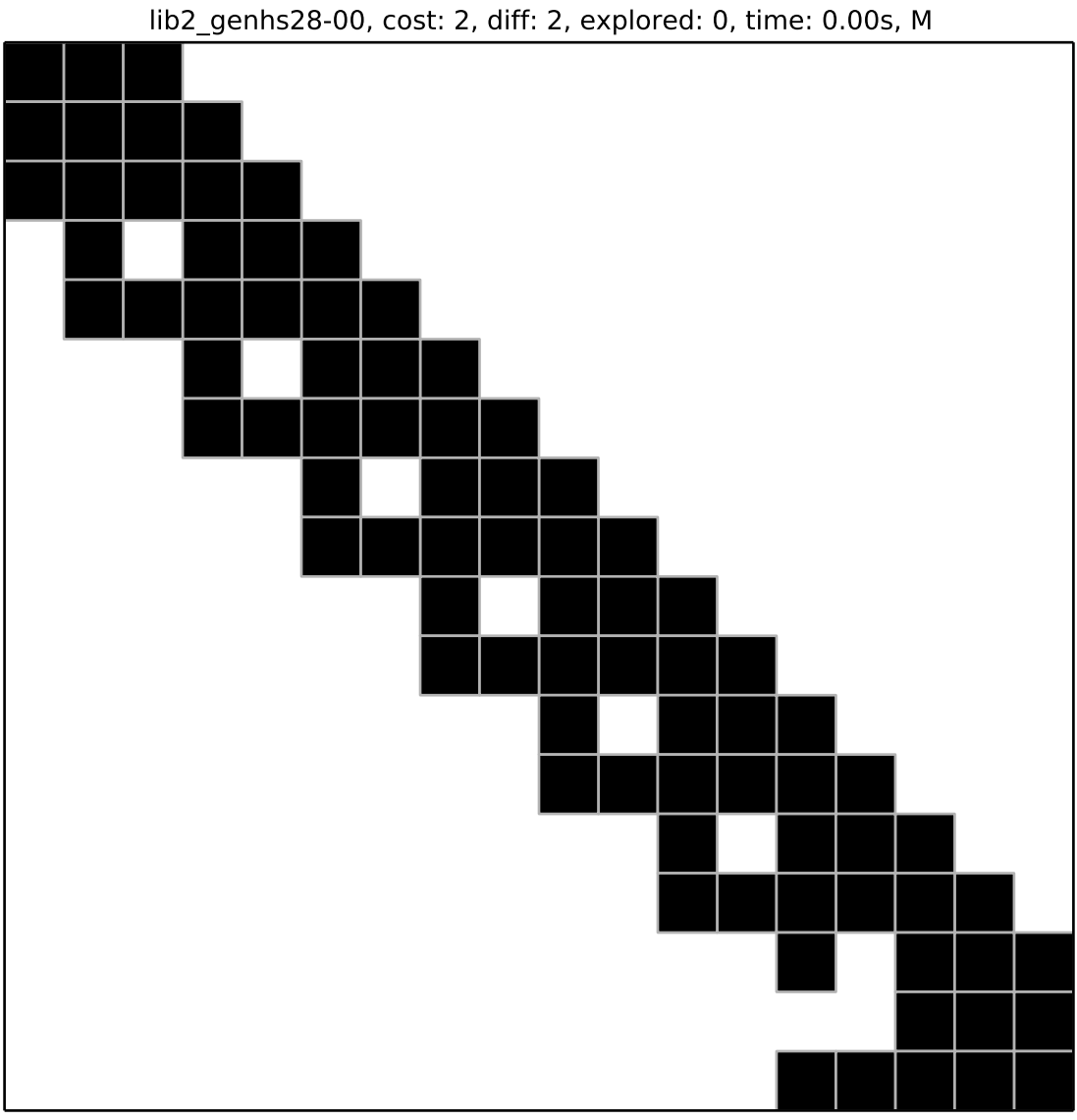
lib2_genhs28-00 18x18 (84) con: 8, var: 10

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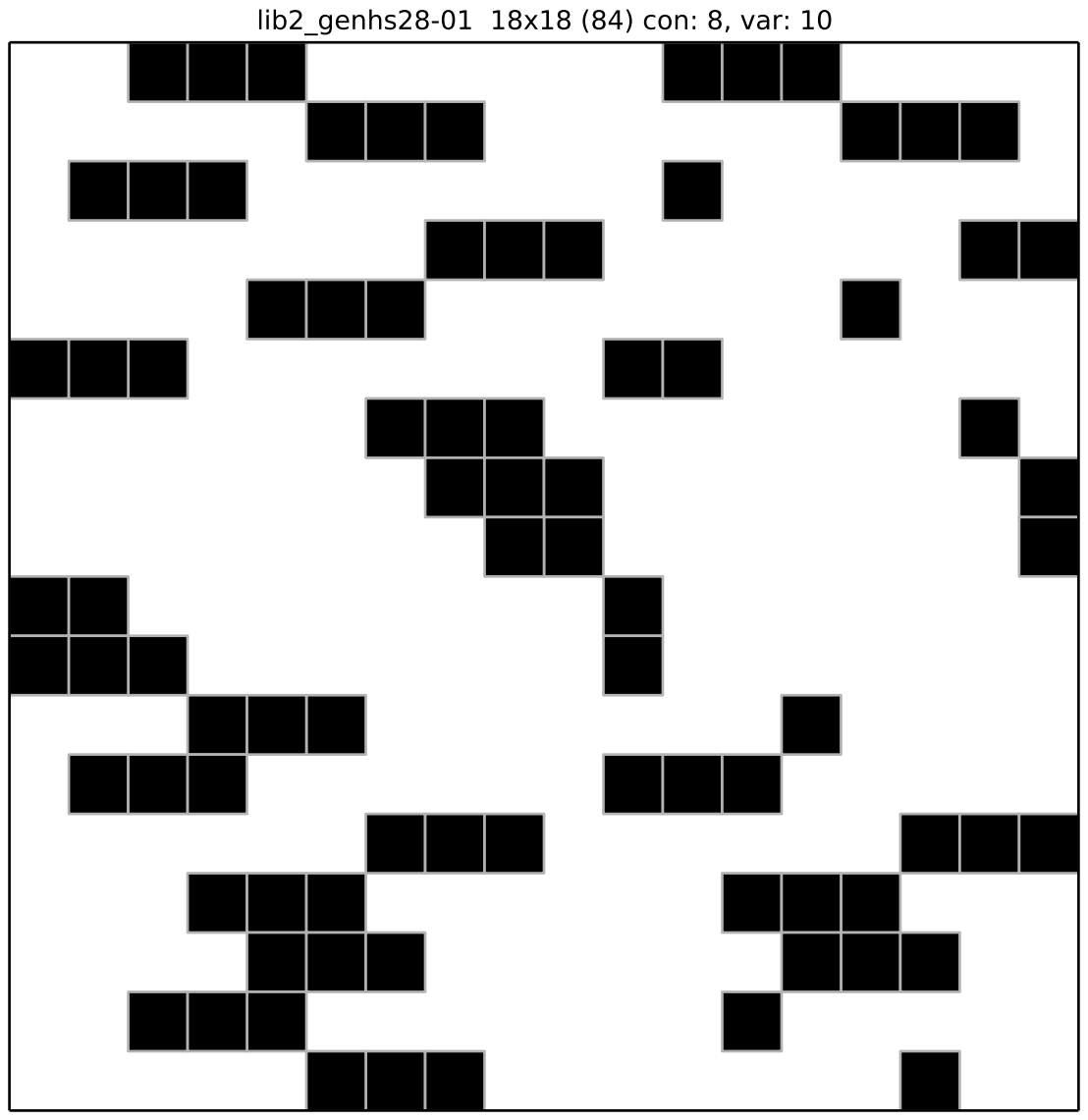
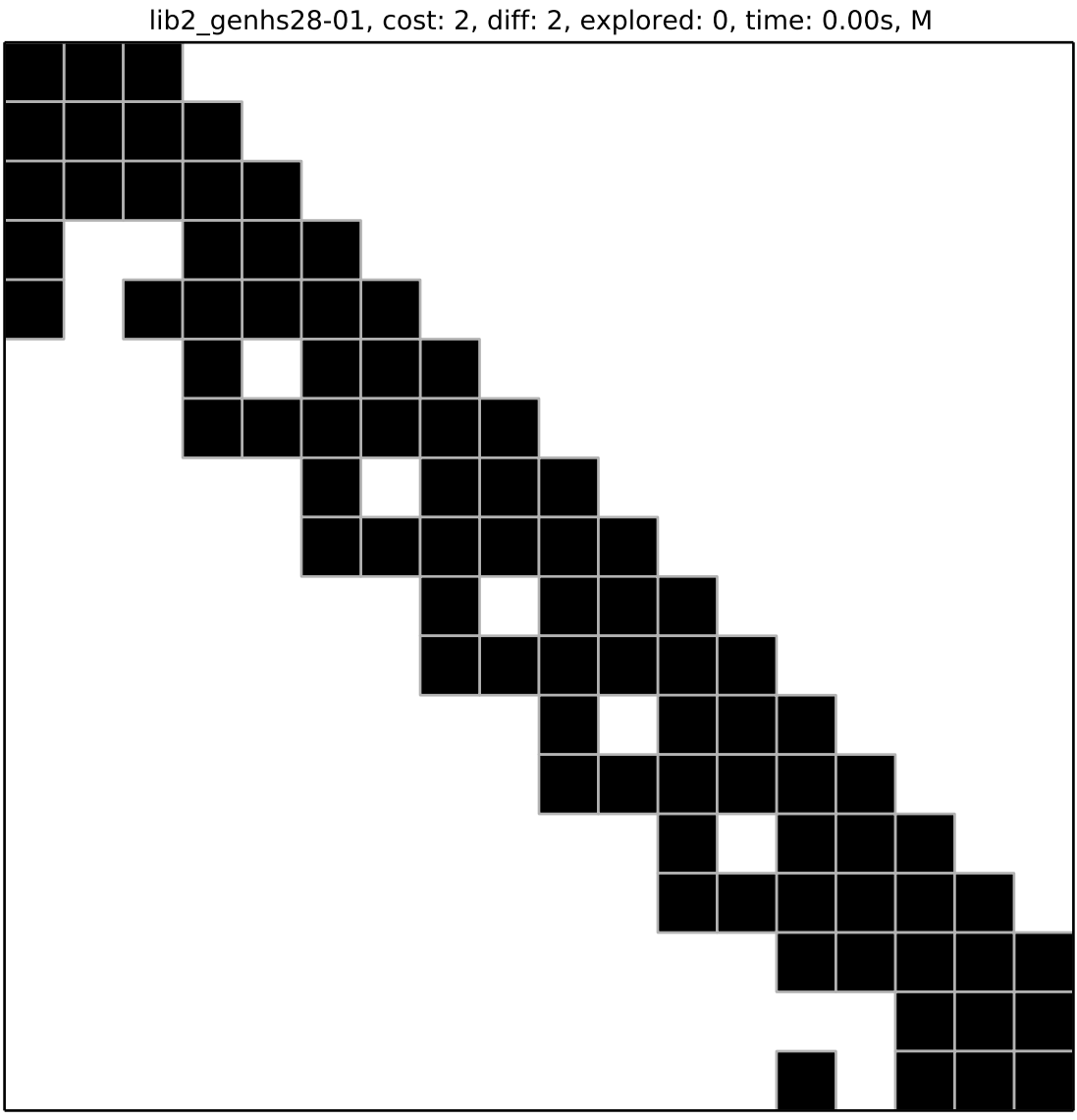

lib2_genhs28-01 18x18 (84) con: 8, var: 10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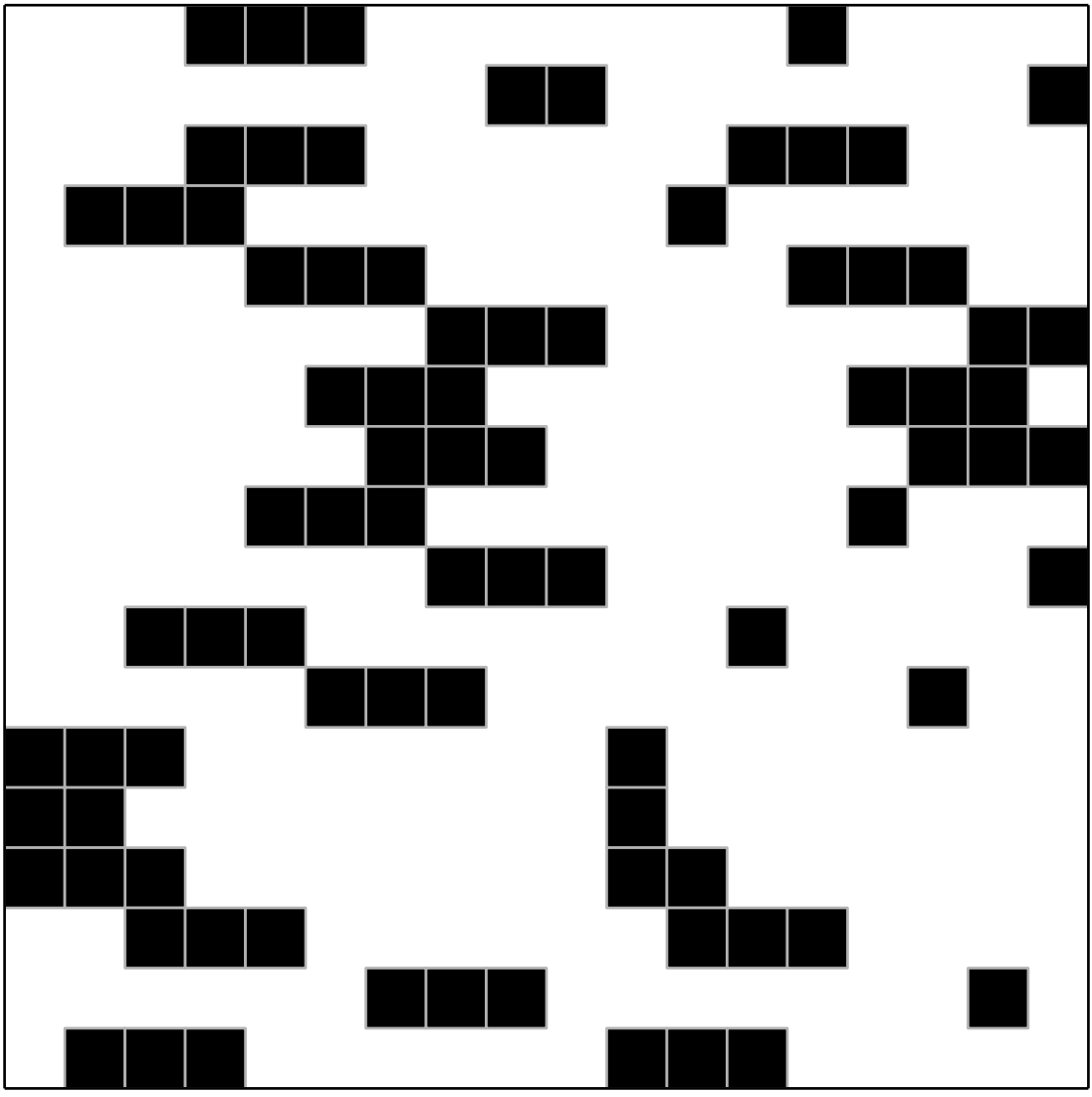
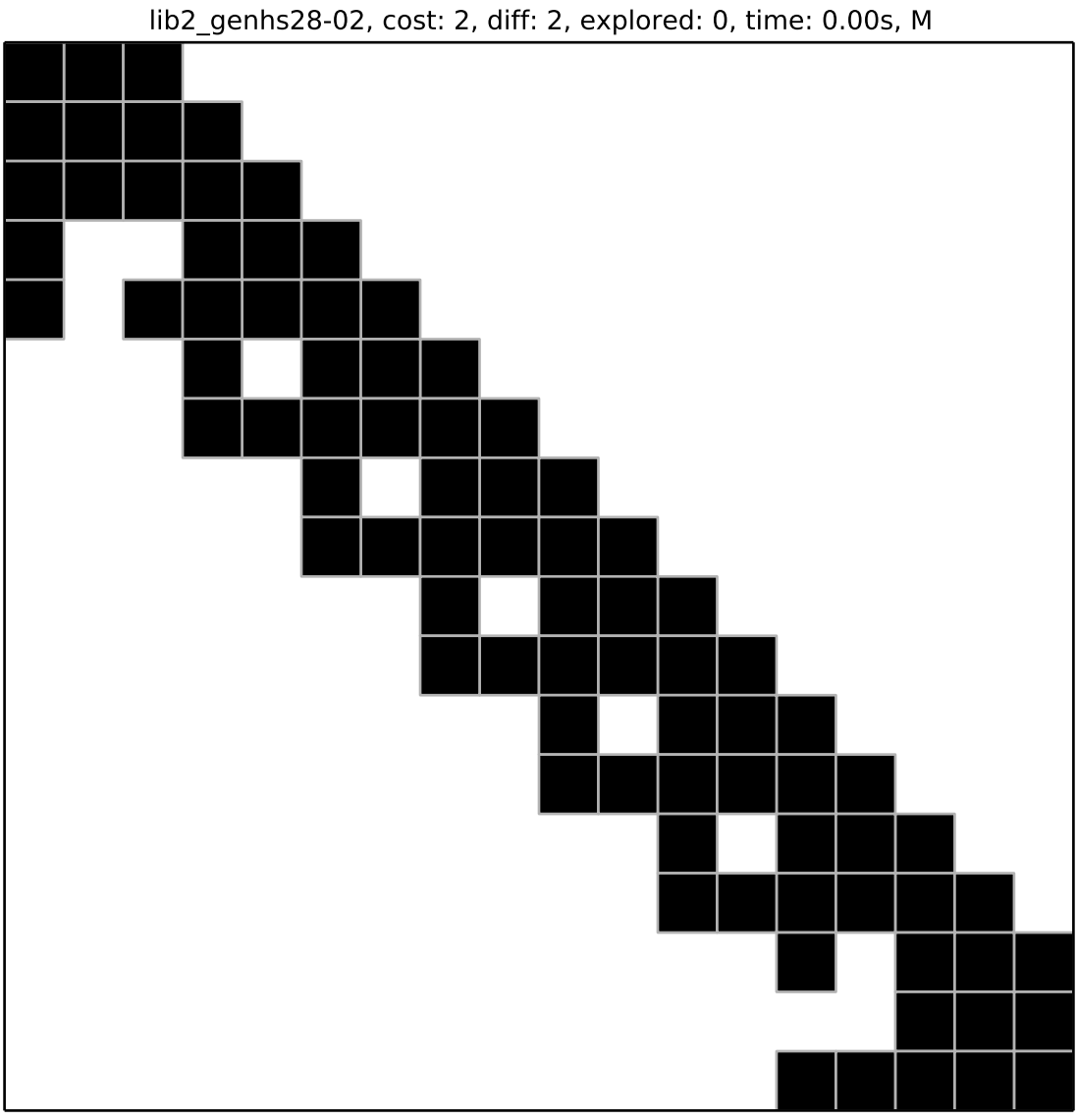
lib2_genhs28-02 18x18 (84) con: 8, var: 10

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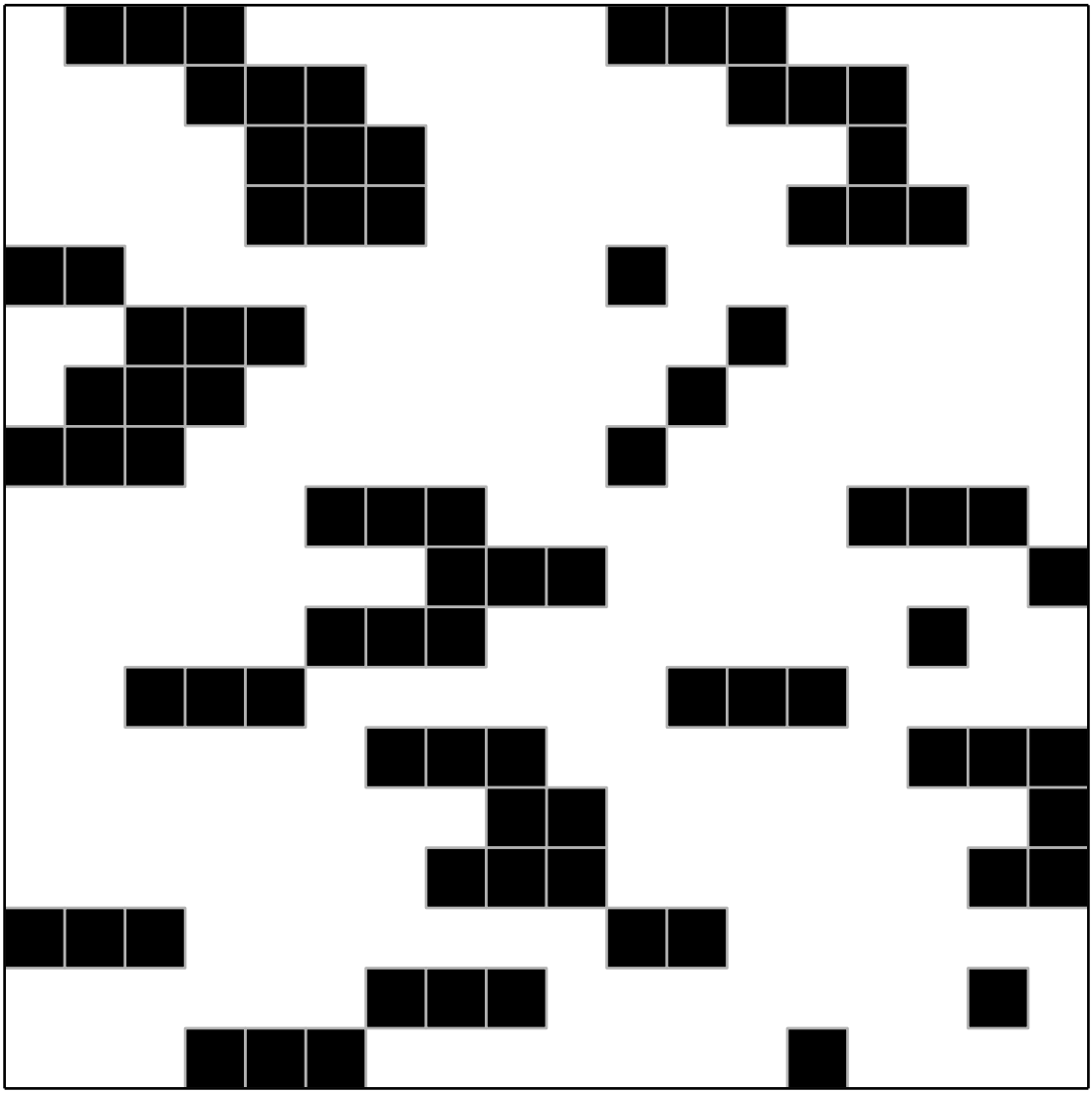
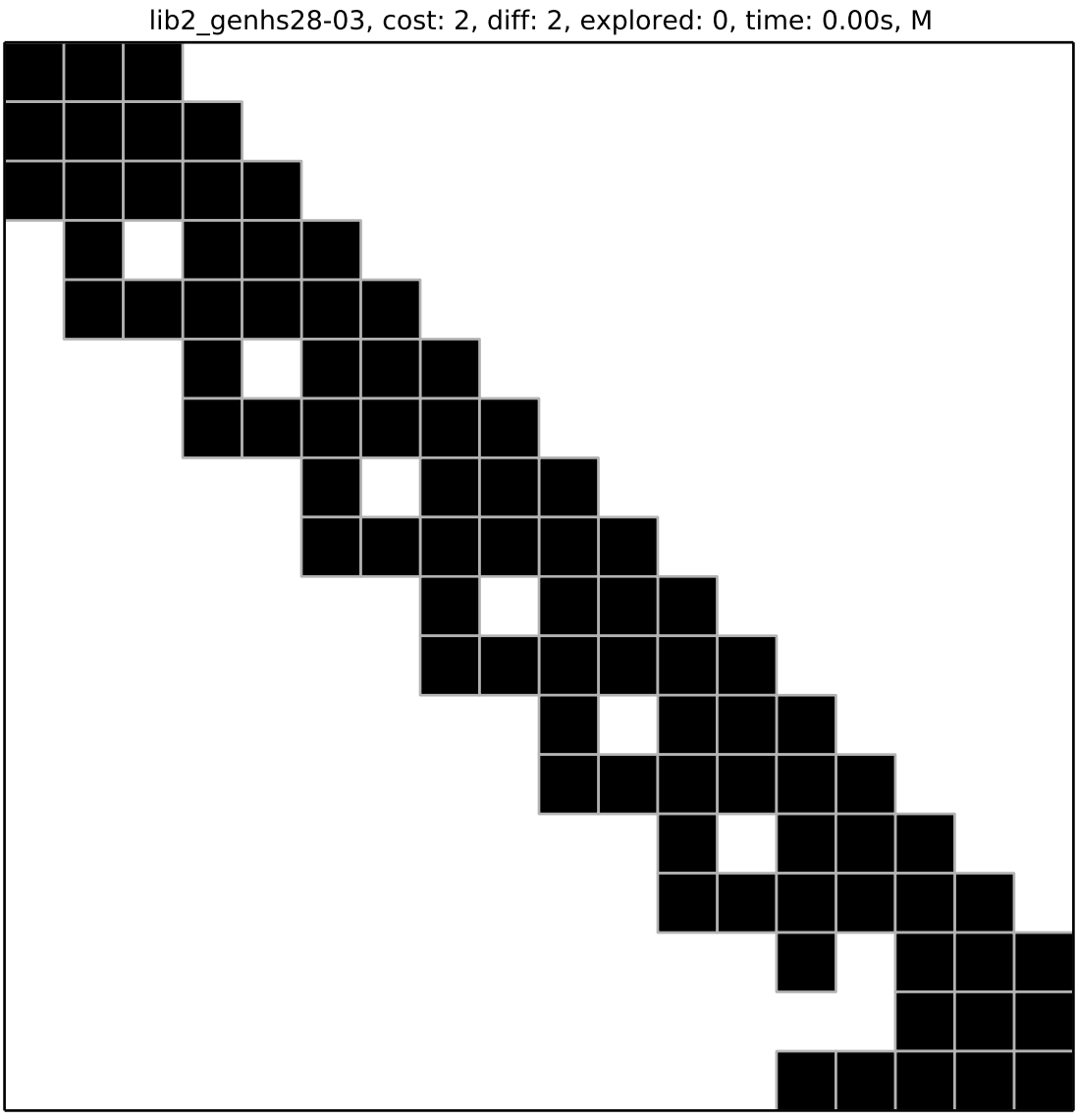
lib2_genhs28-03 18x18 (84) con: 8, var: 10

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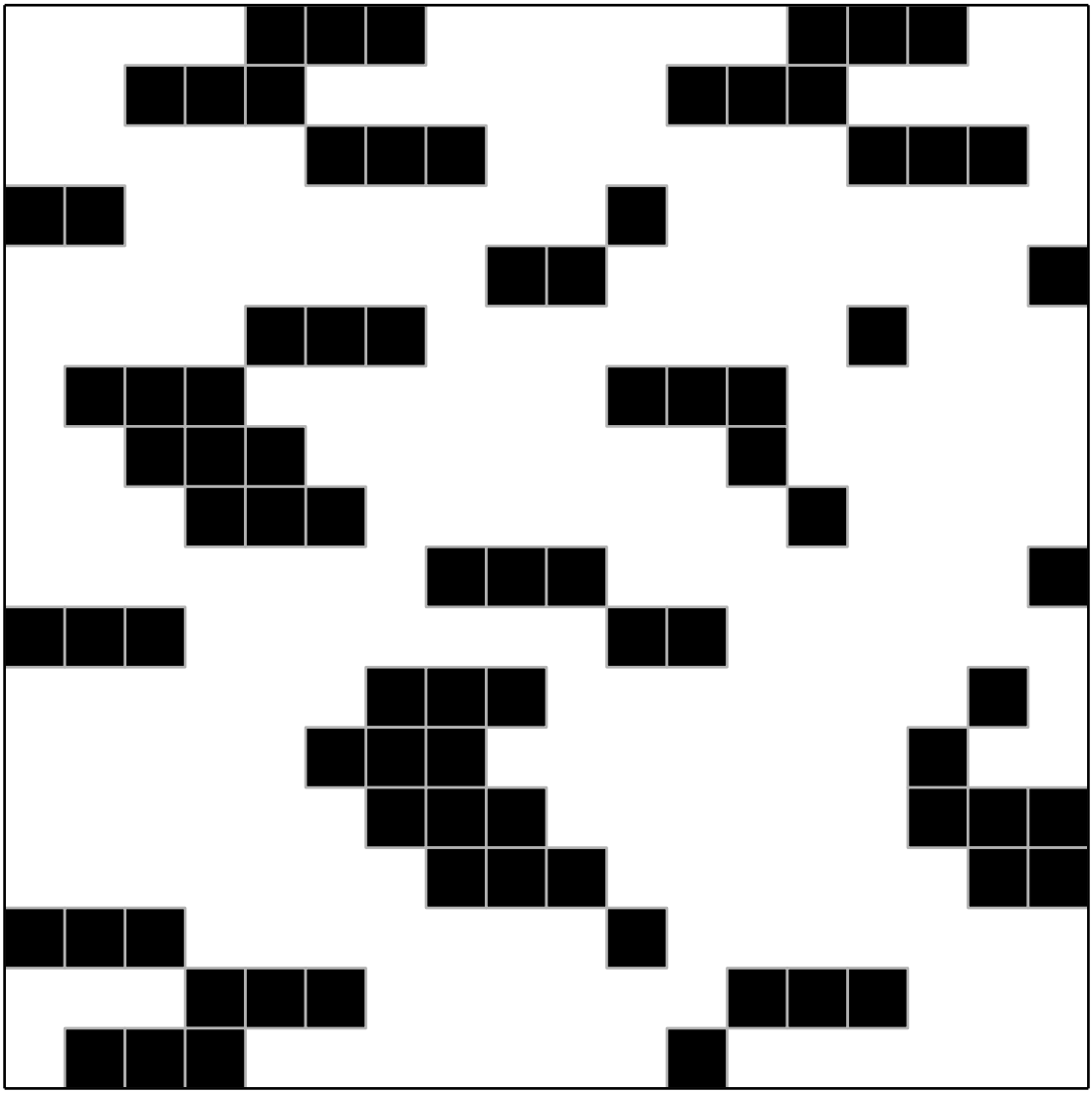

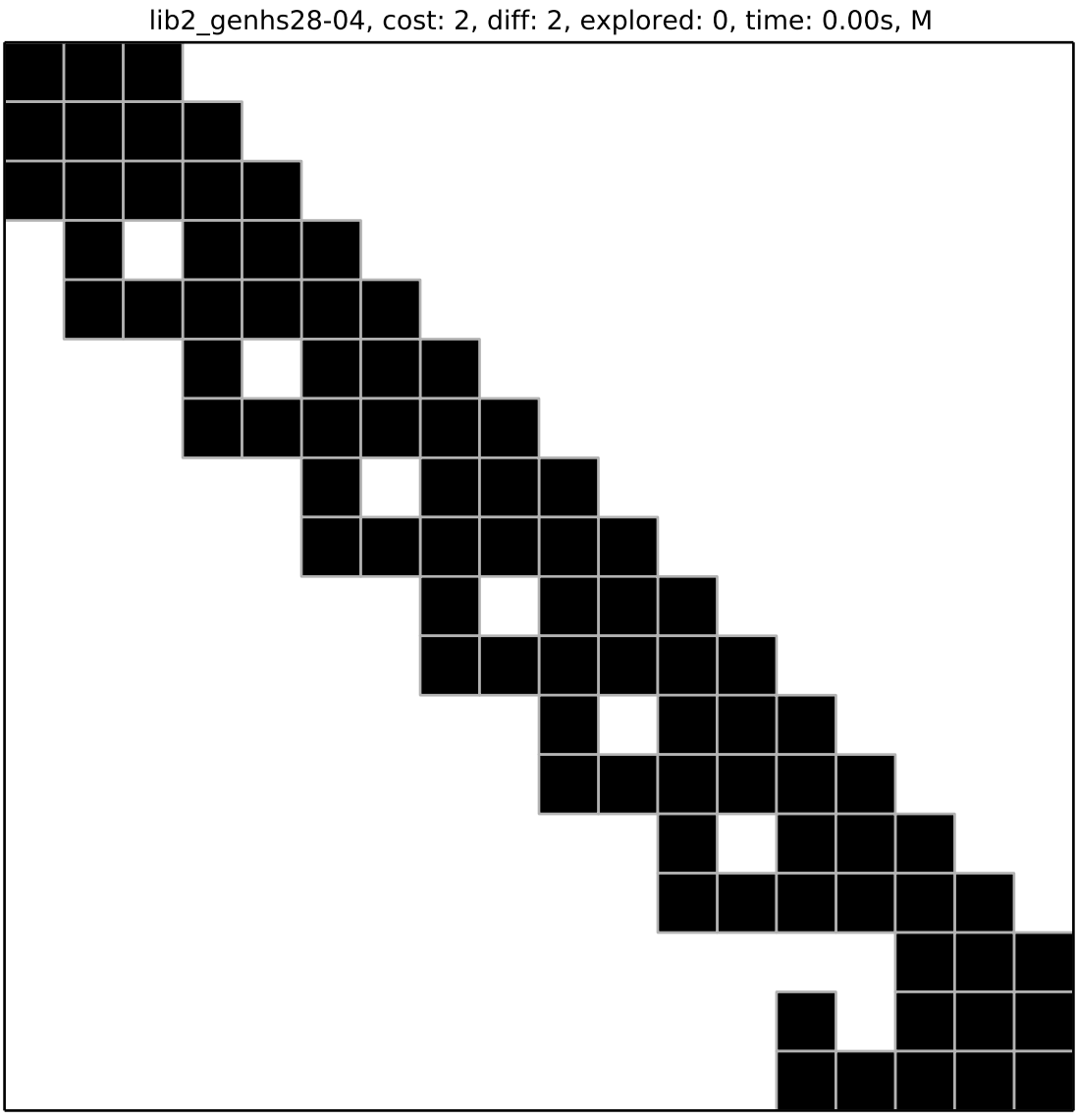
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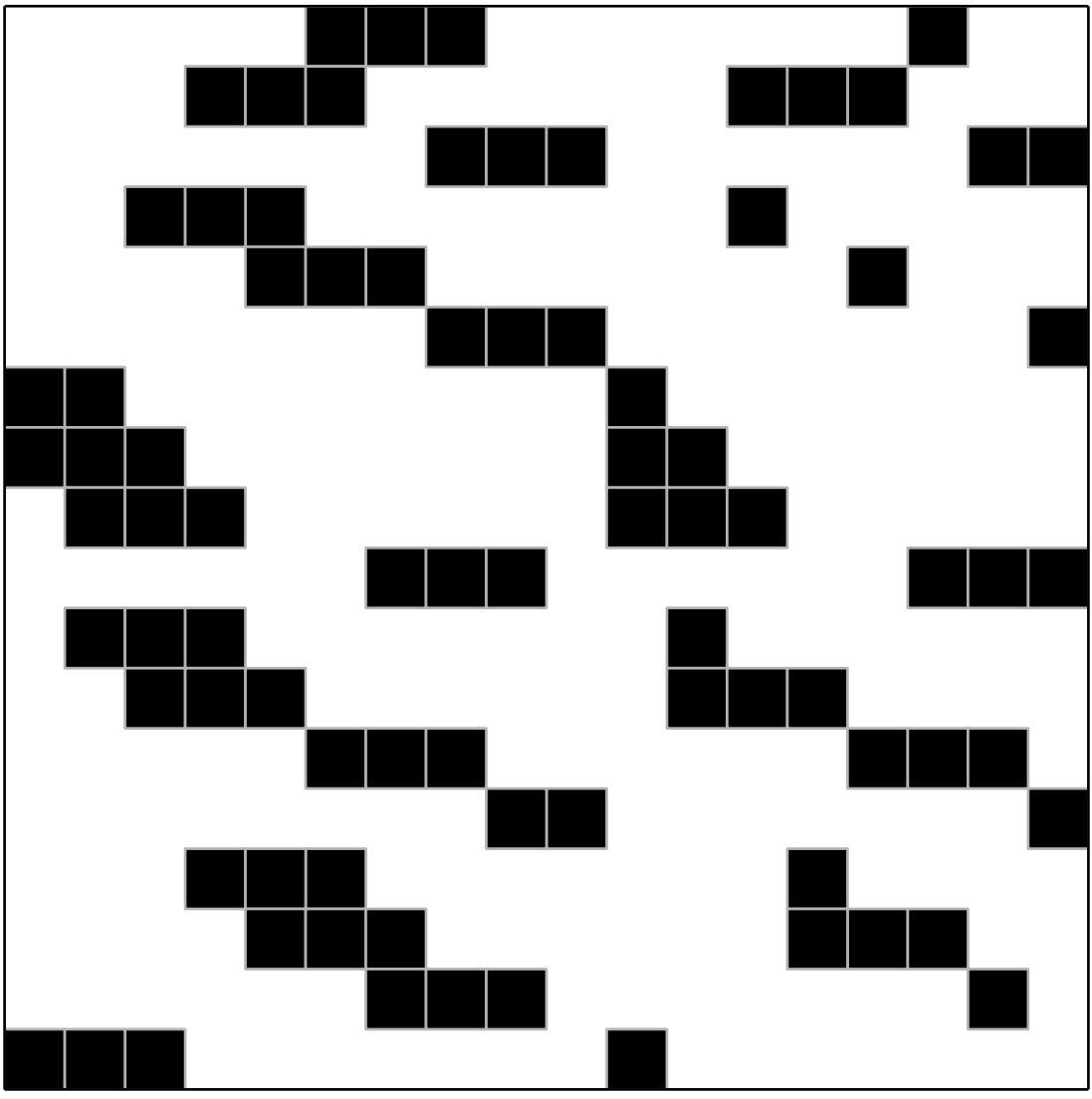
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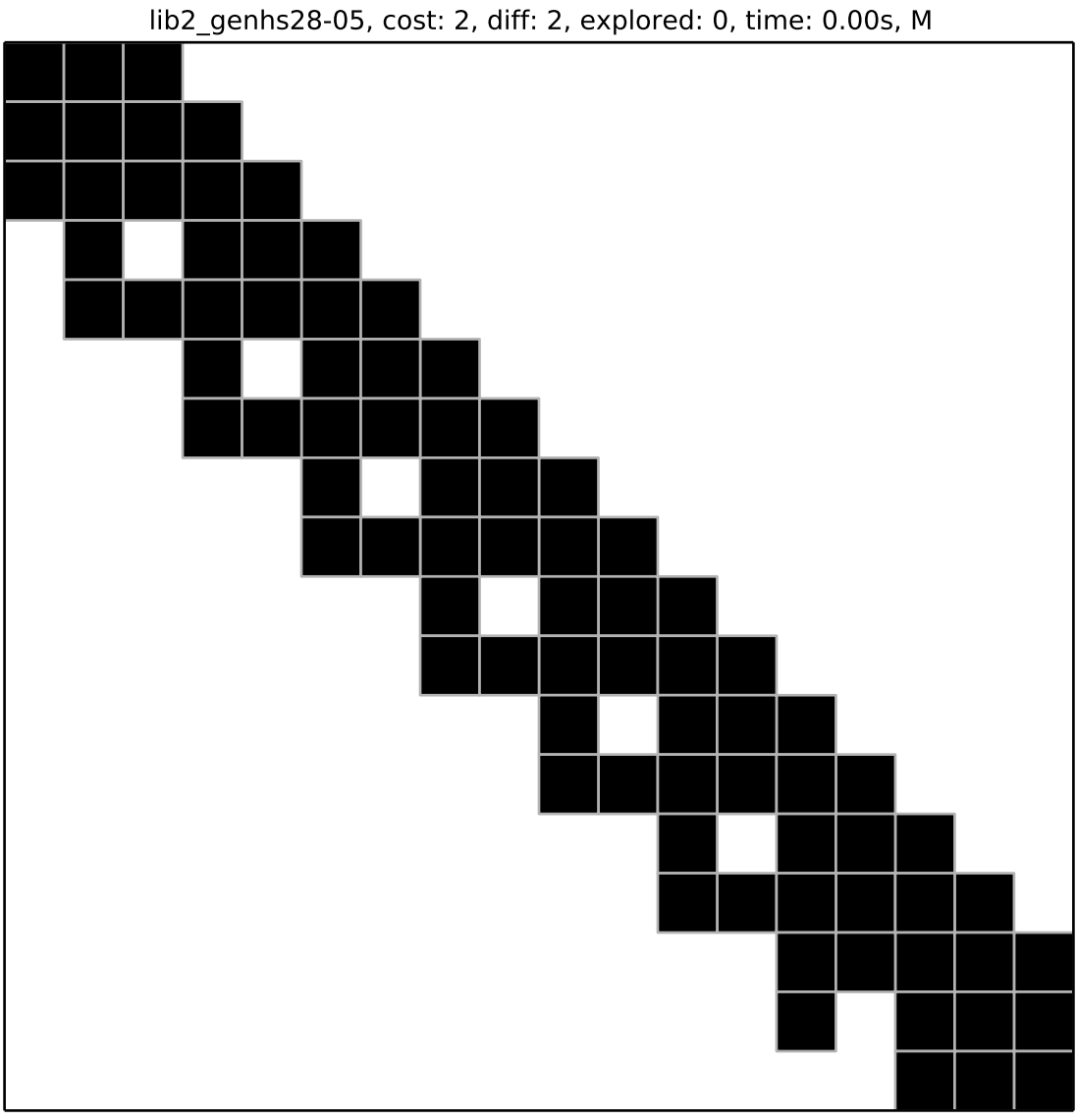
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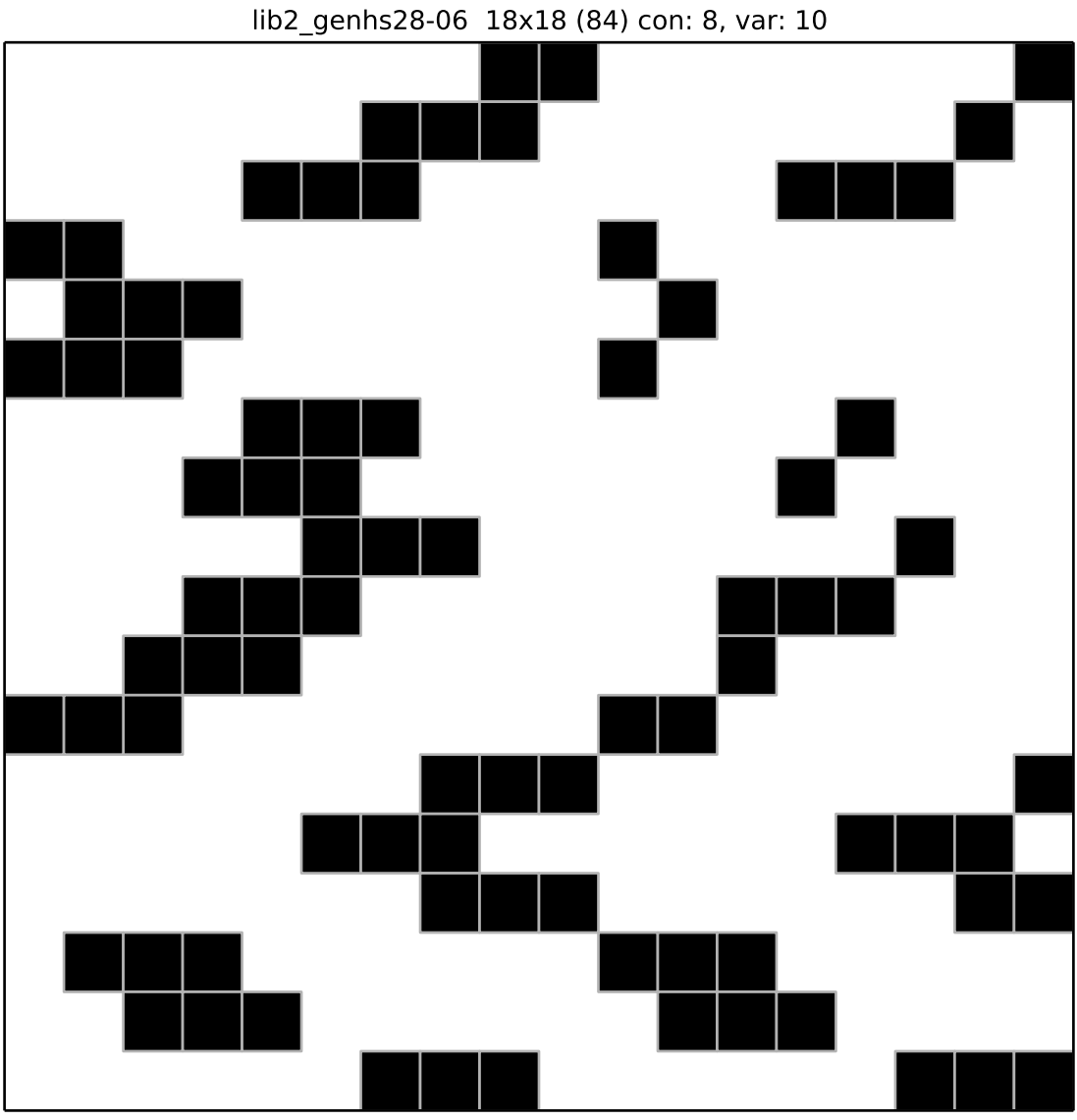
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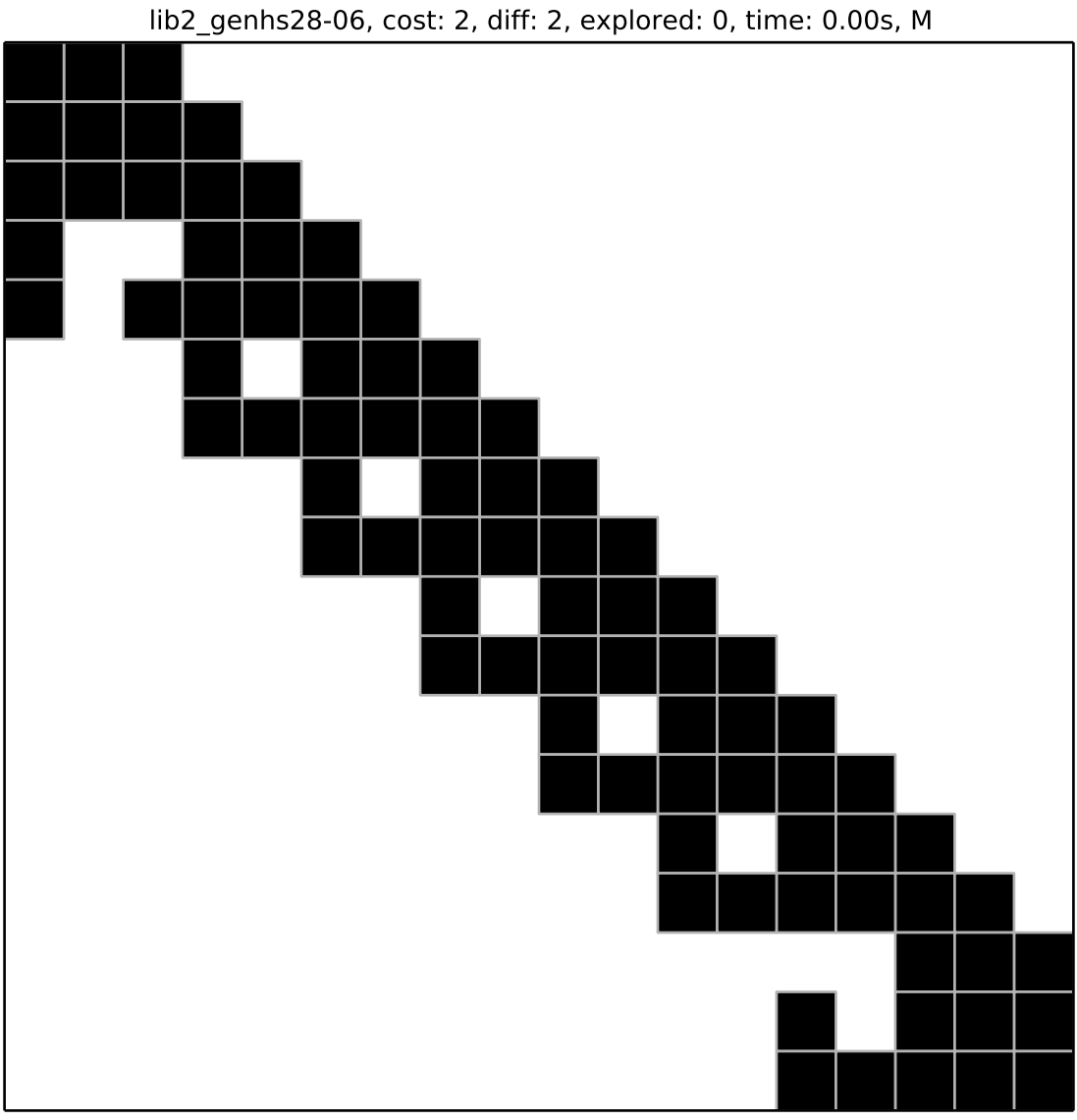
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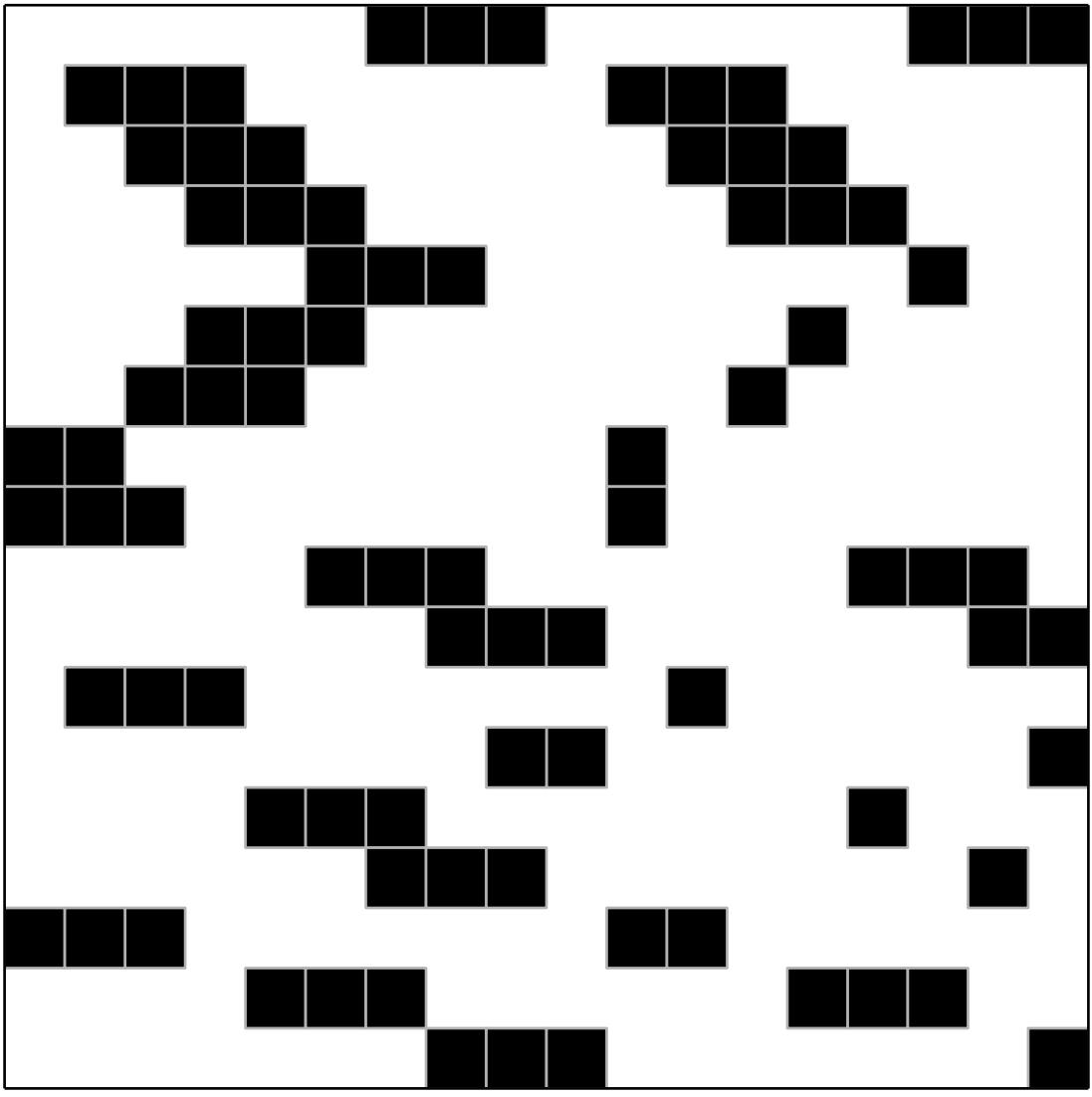
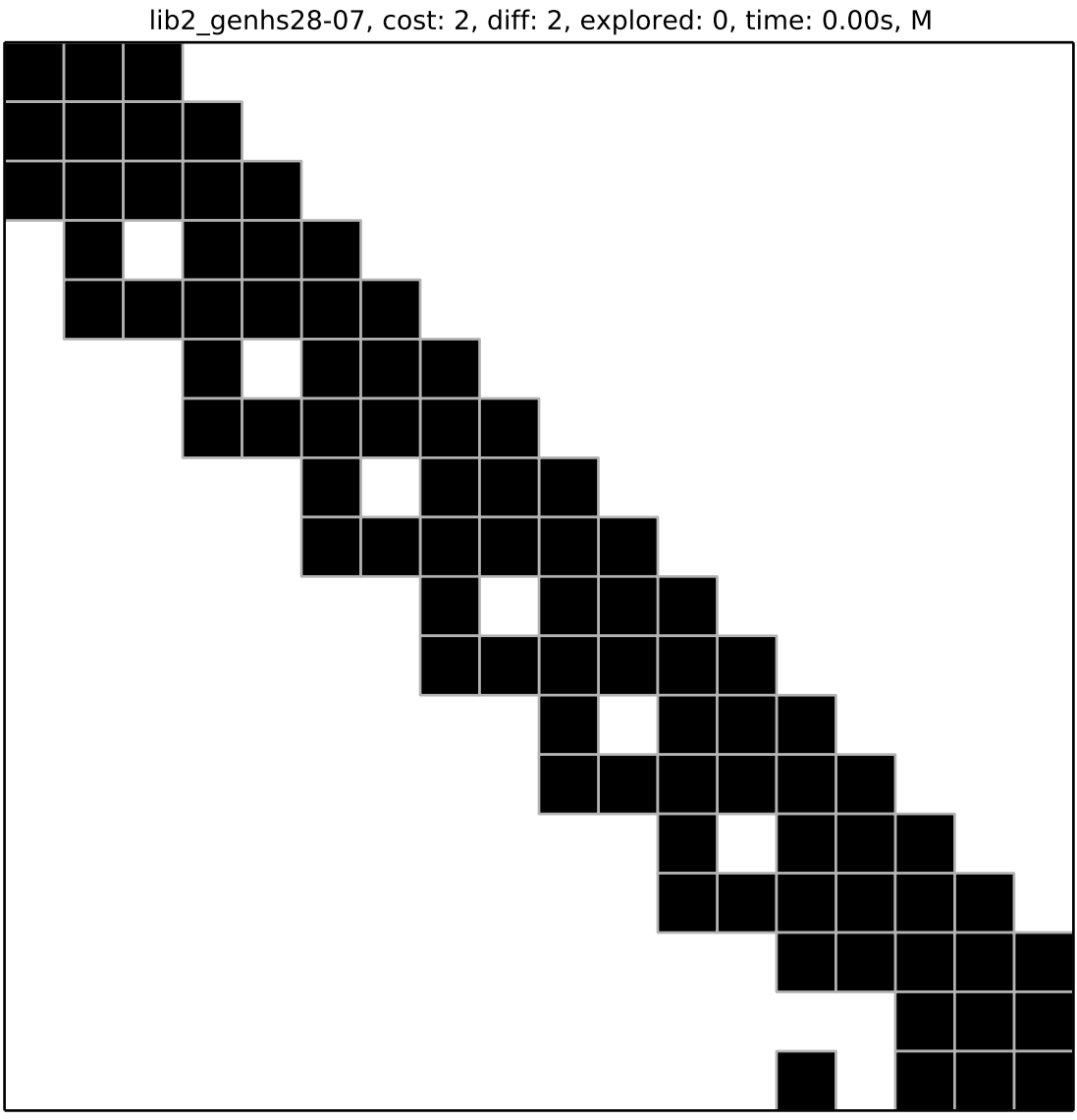
lib2_genhs28-07 18x18 (84) con: 8, var: 10

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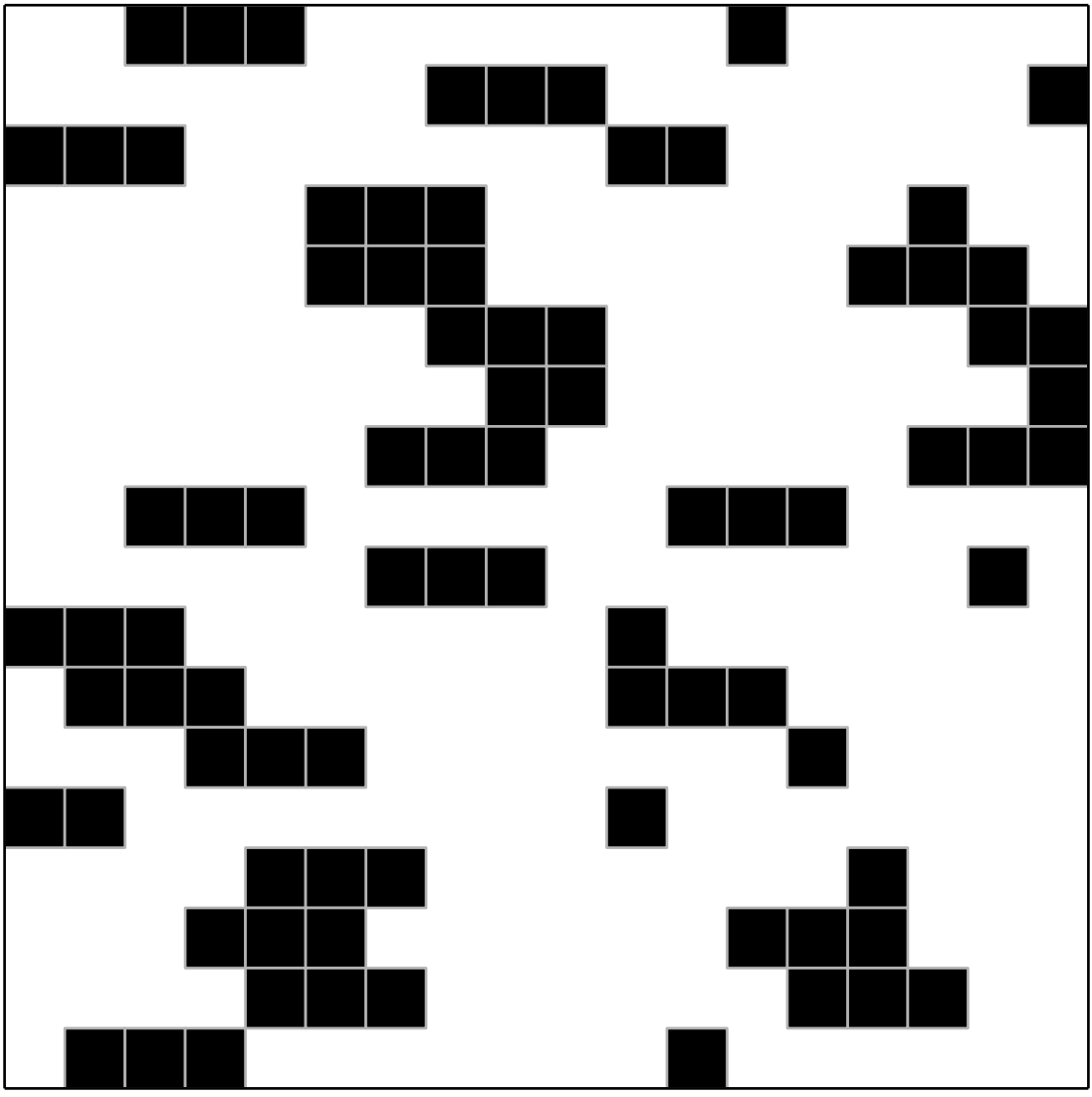
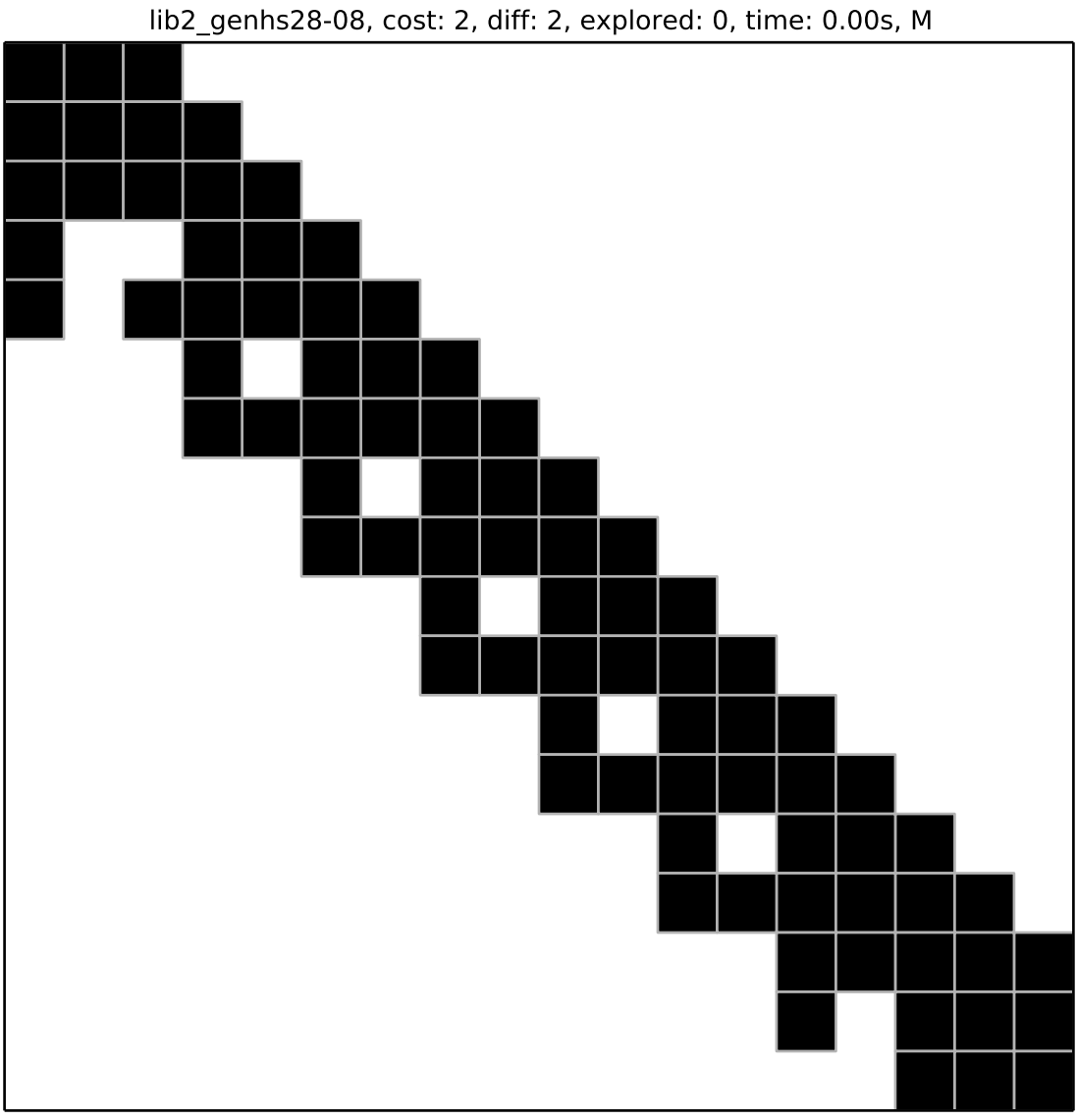
lib2_genhs28-08 18x18 (84) con: 8, var: 10

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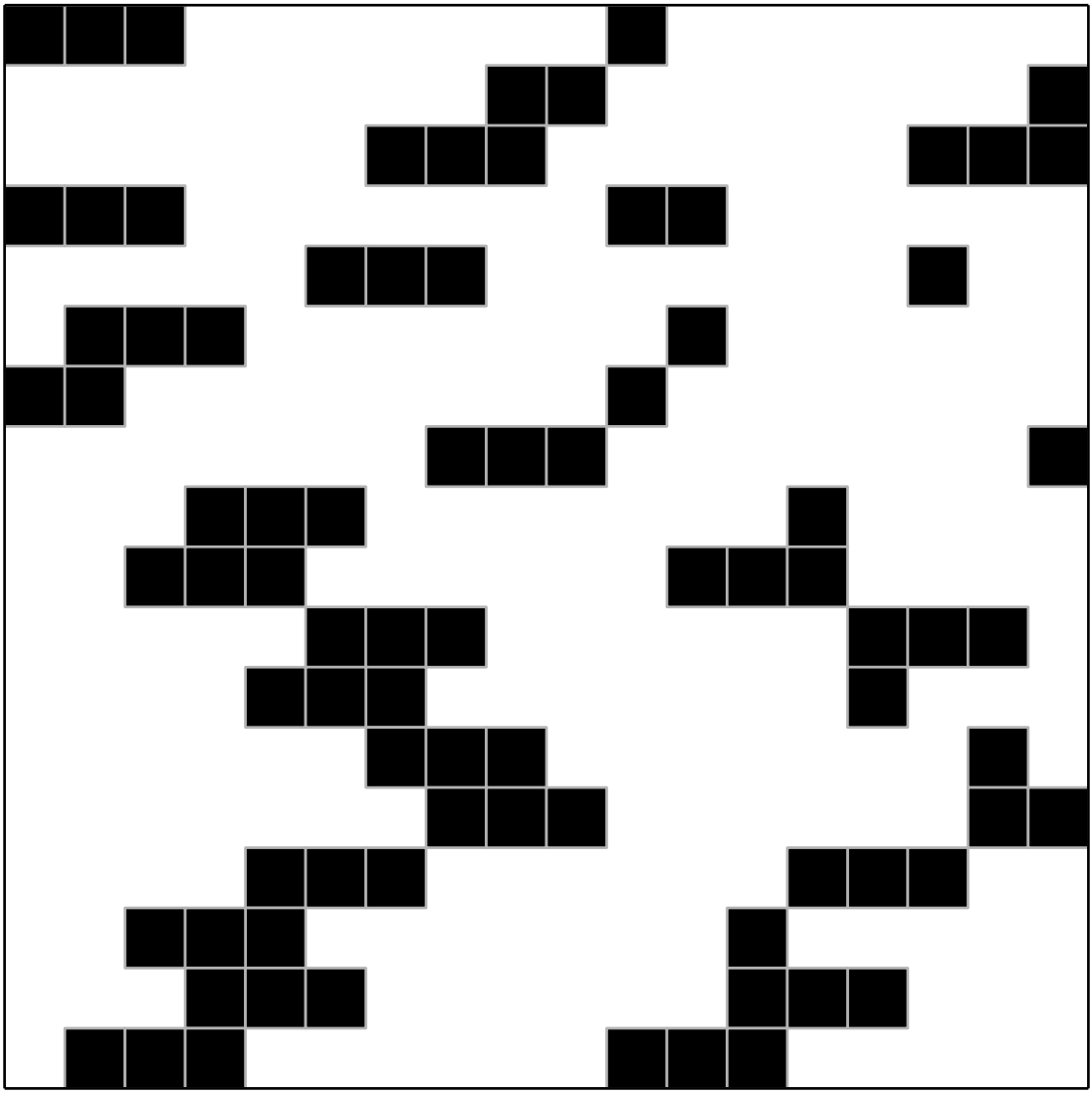

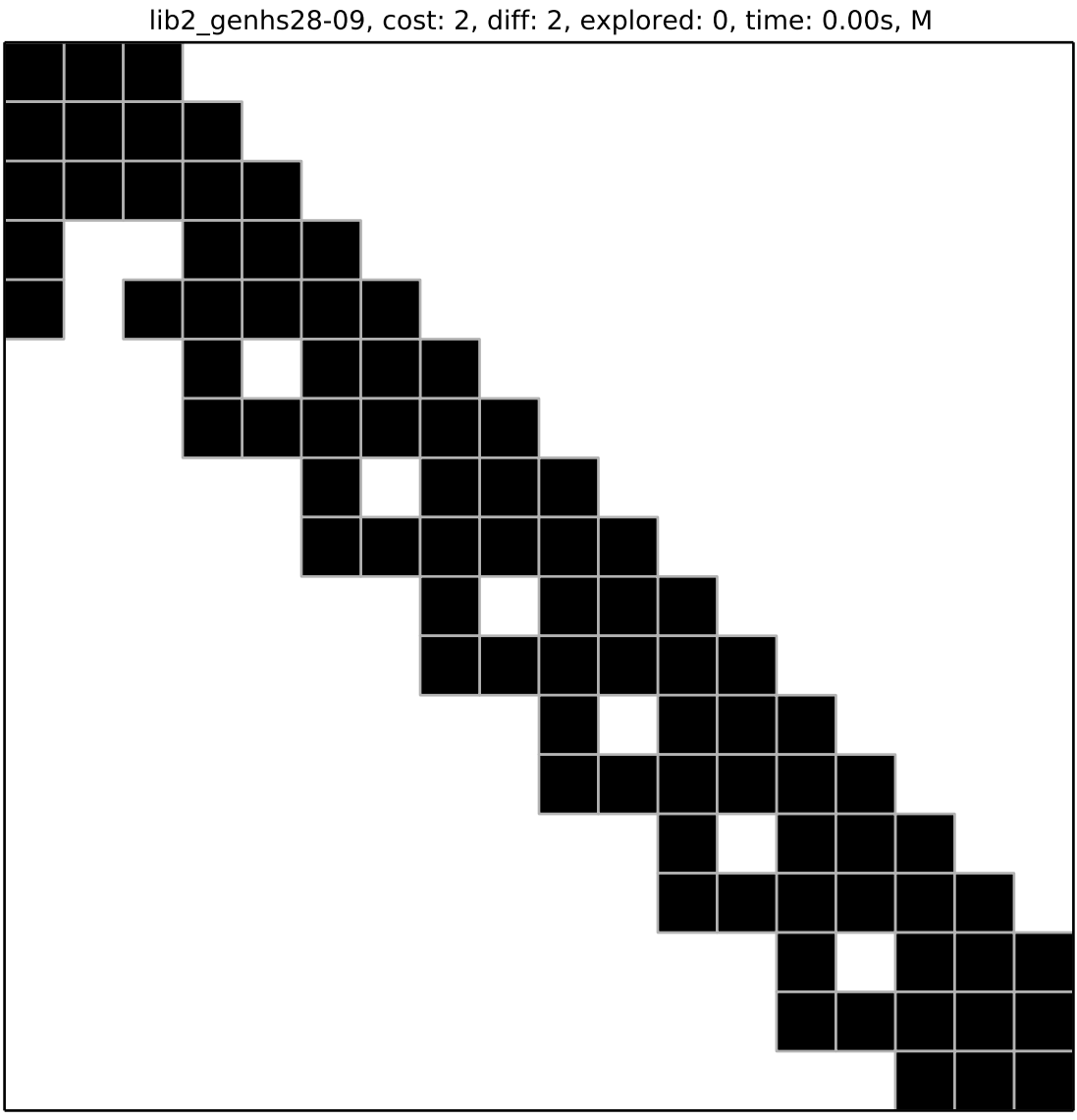
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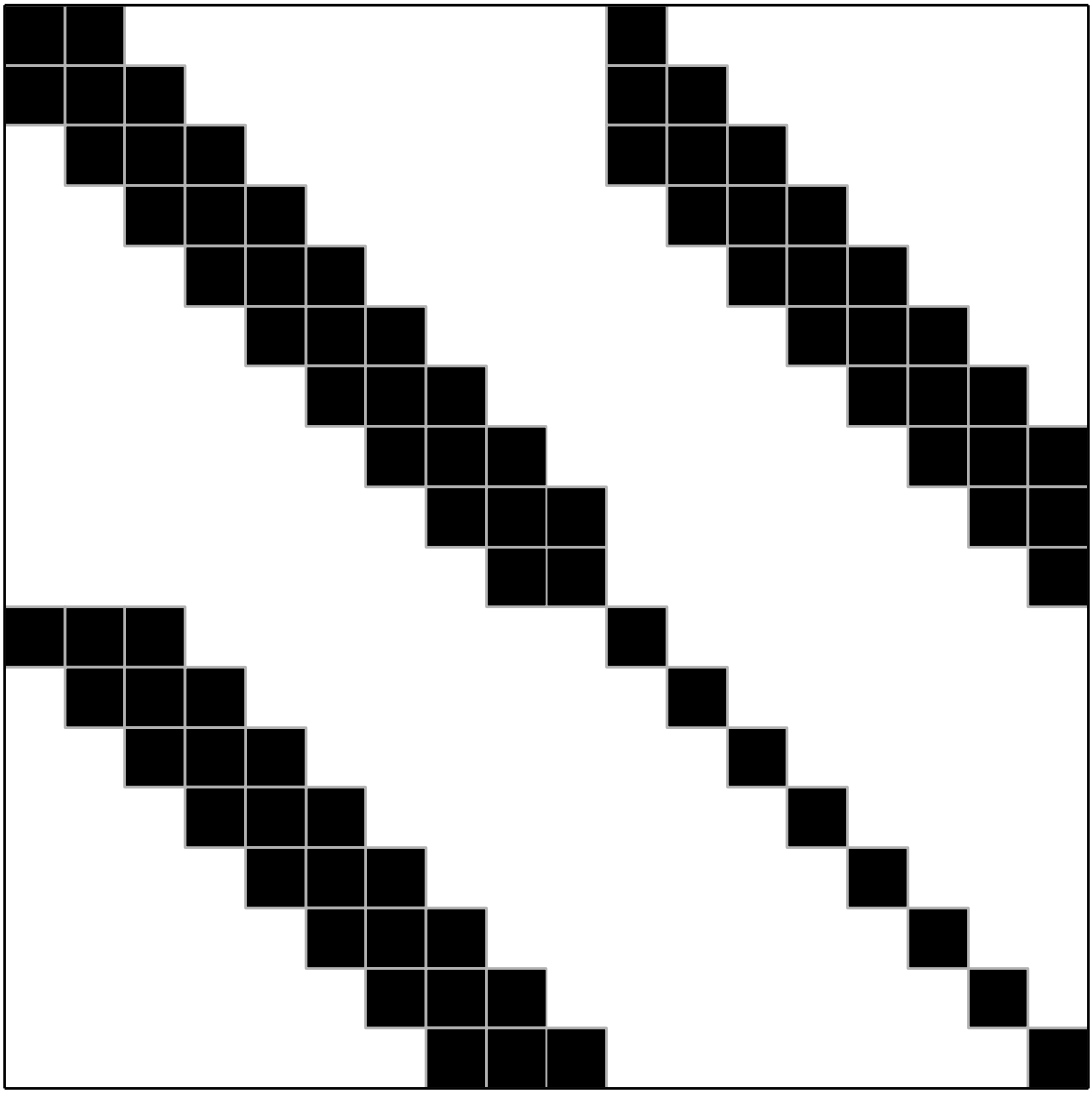
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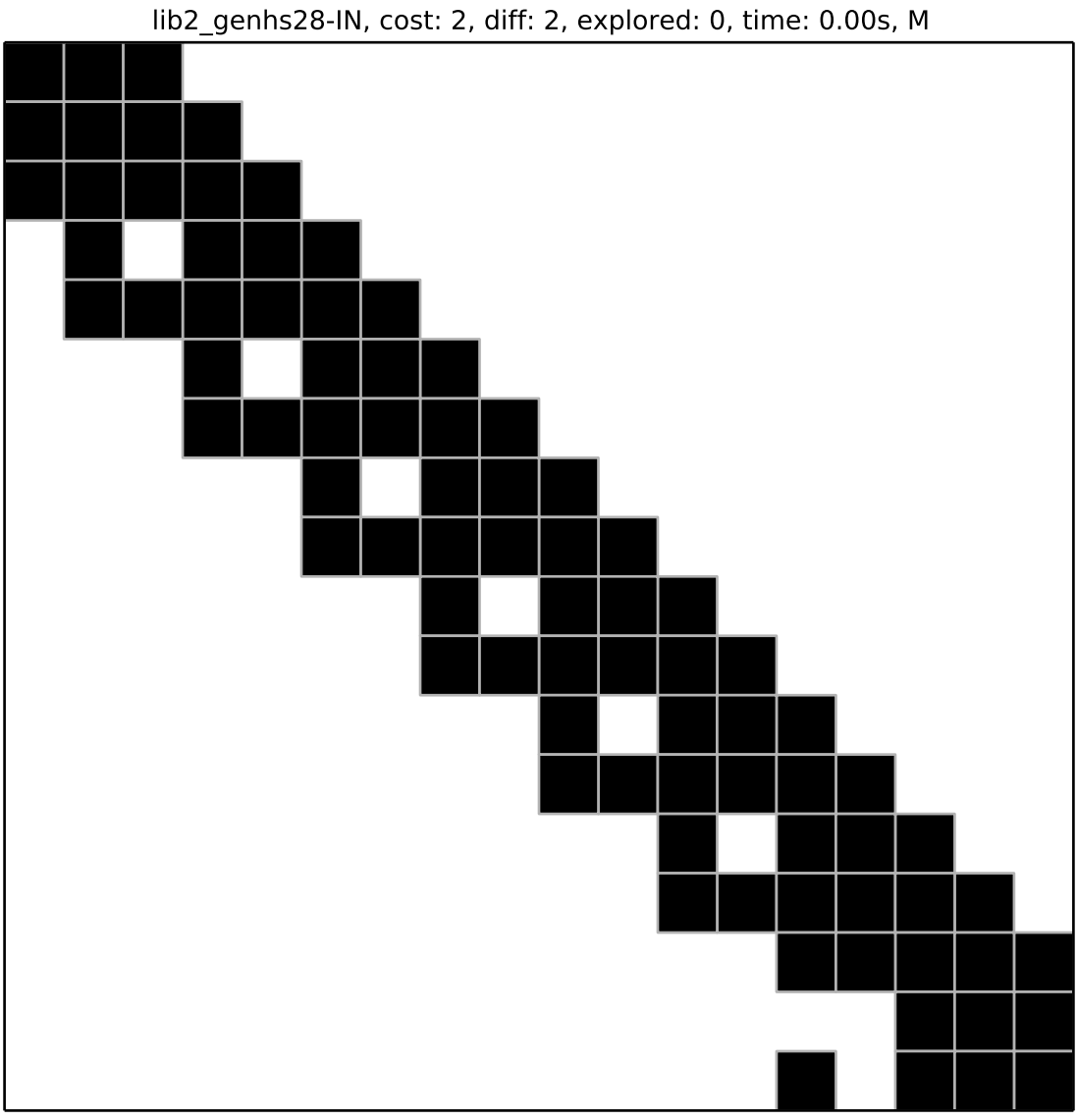
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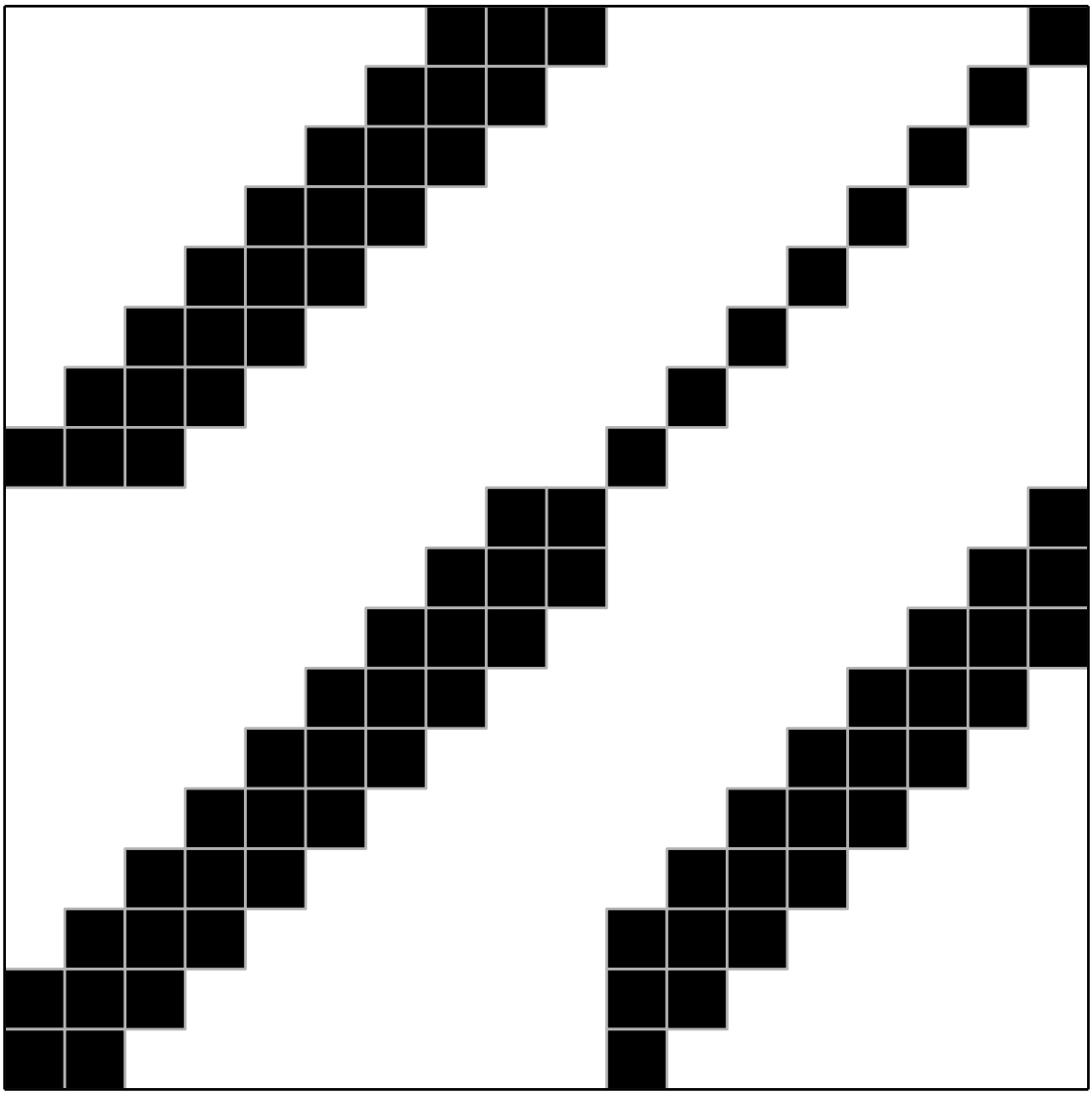
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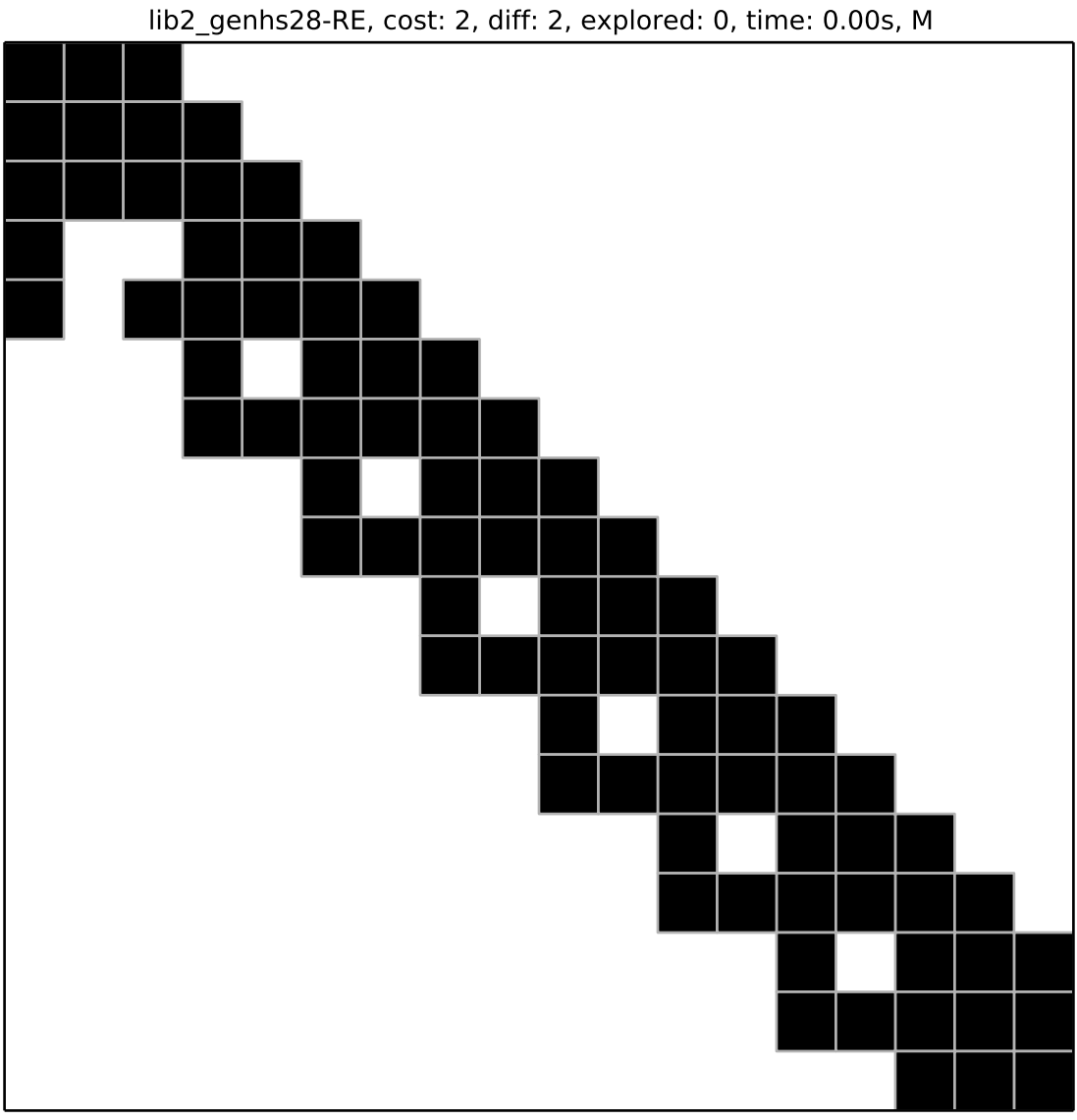
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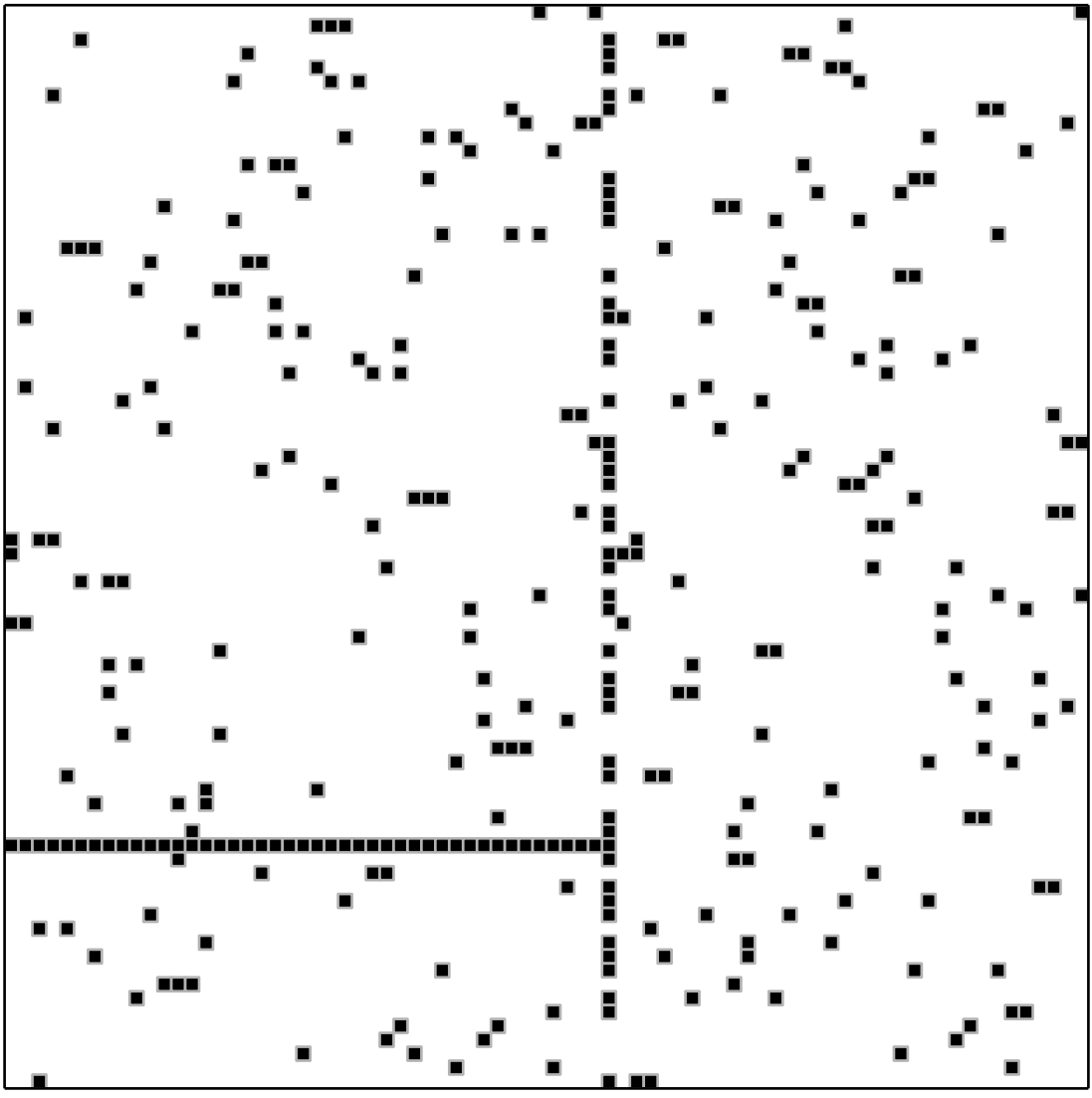
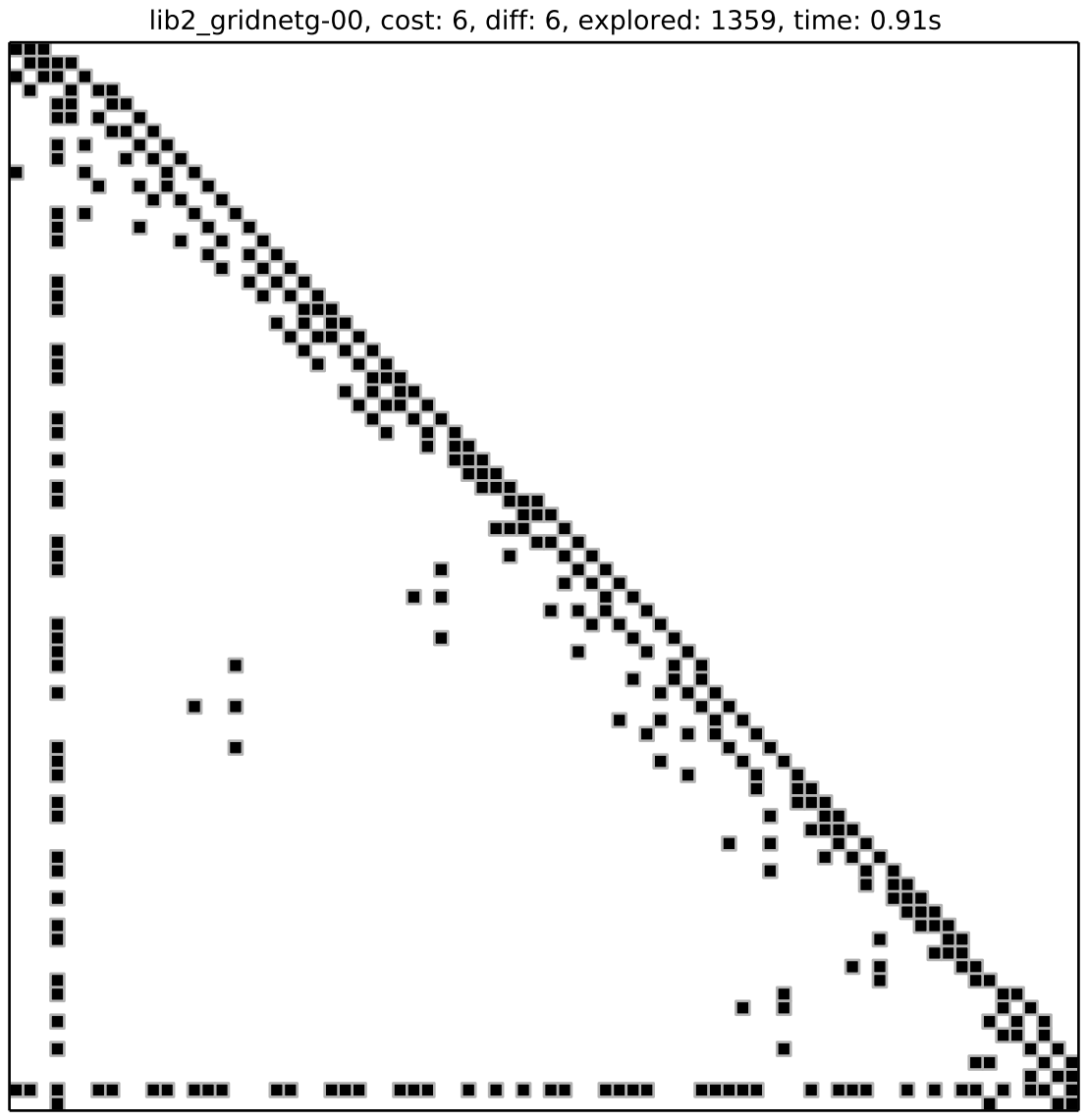
lib2_gridnetg-00 78x78 (336) con: 34, var: 44

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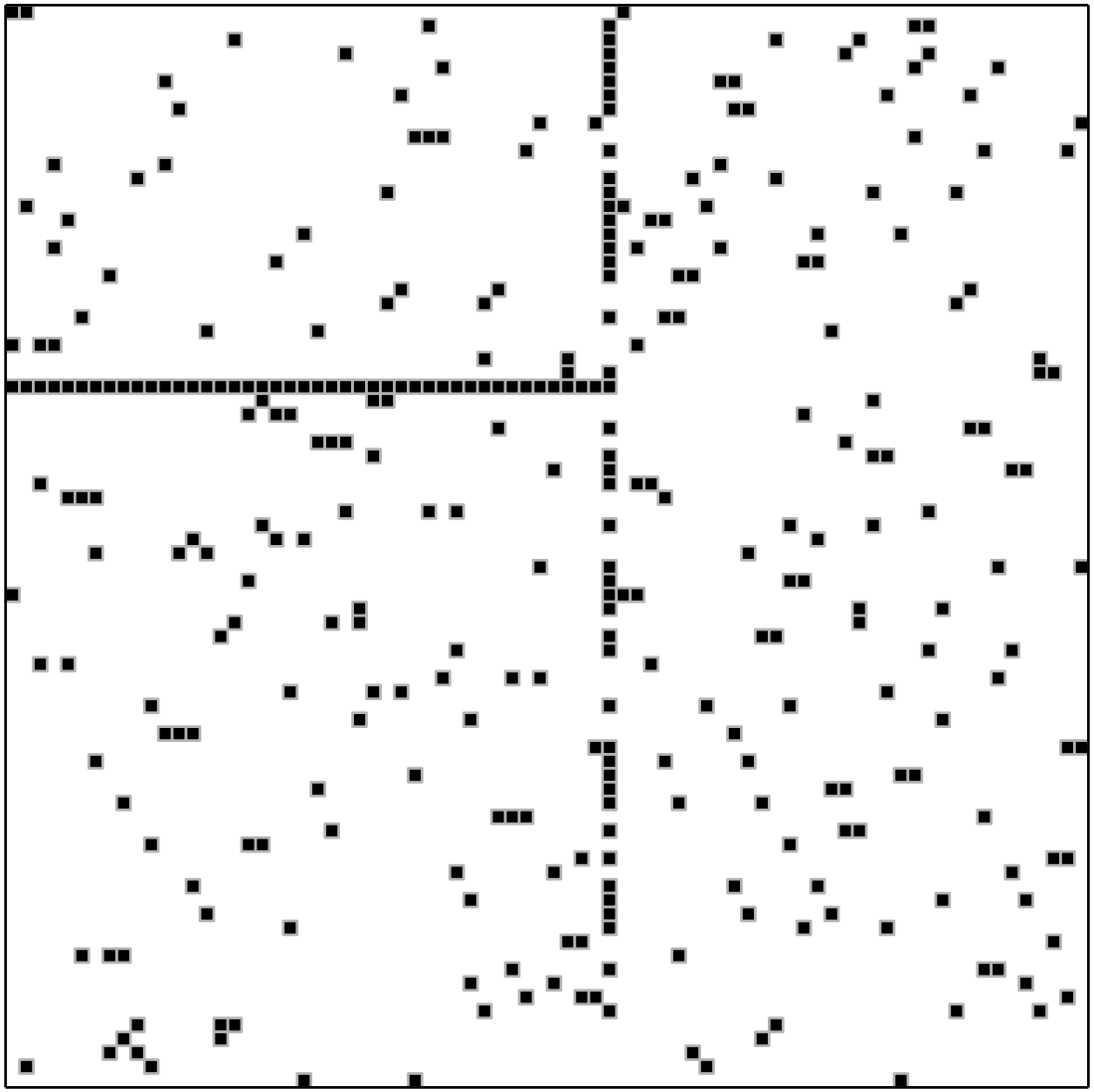

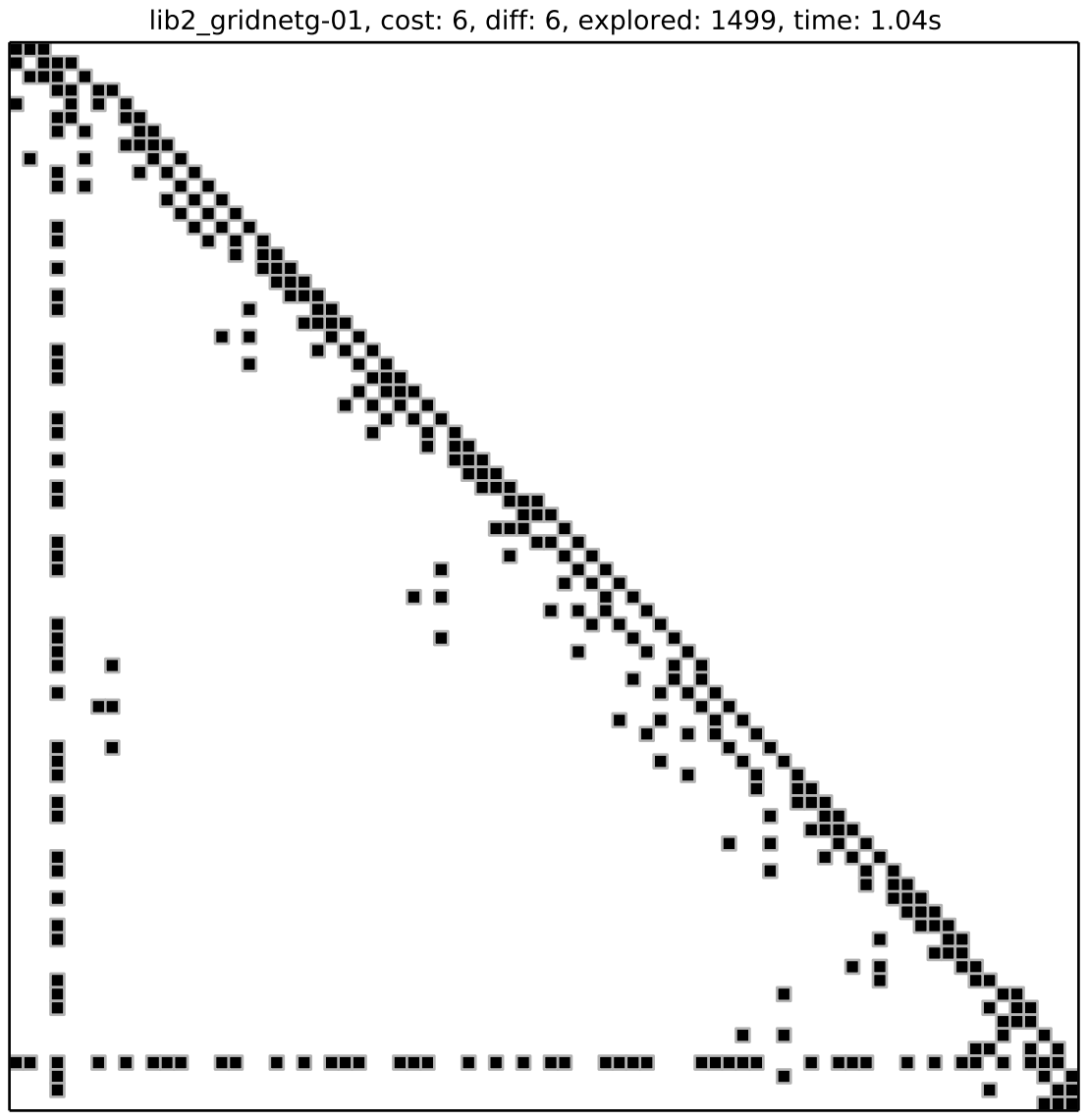
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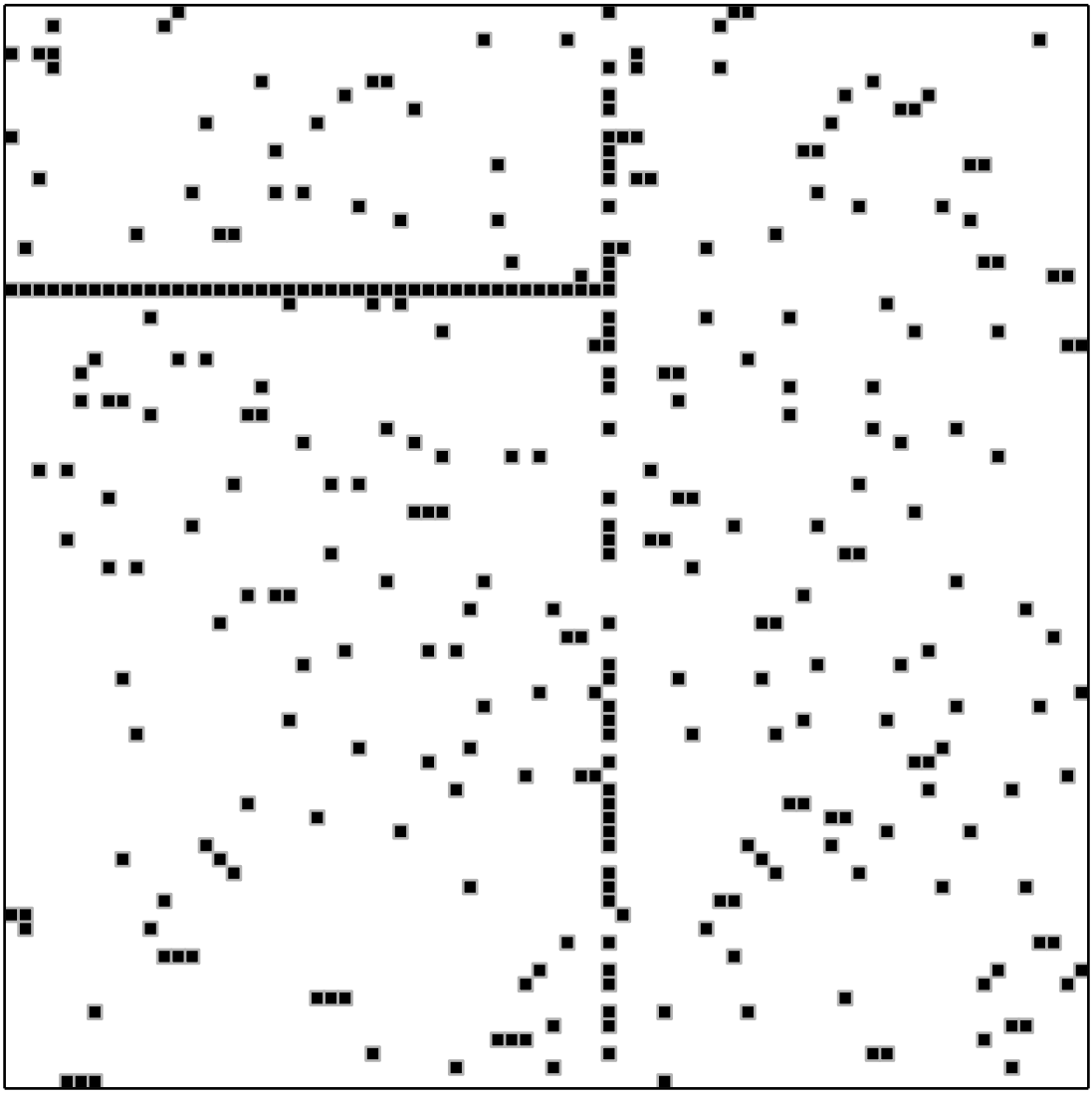
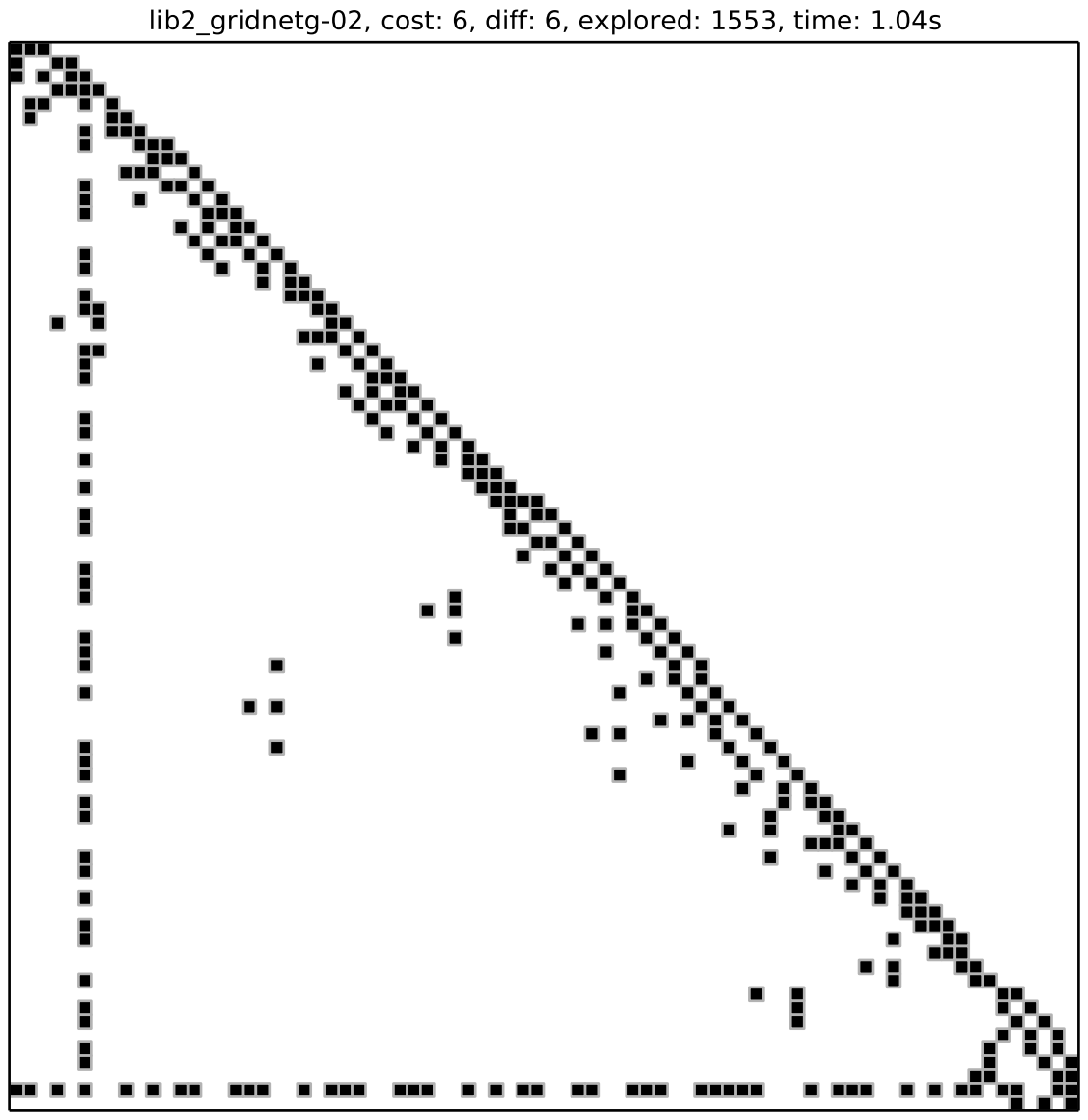
lib2_gridnetg-02 78x78 (336) con: 34, var: 44

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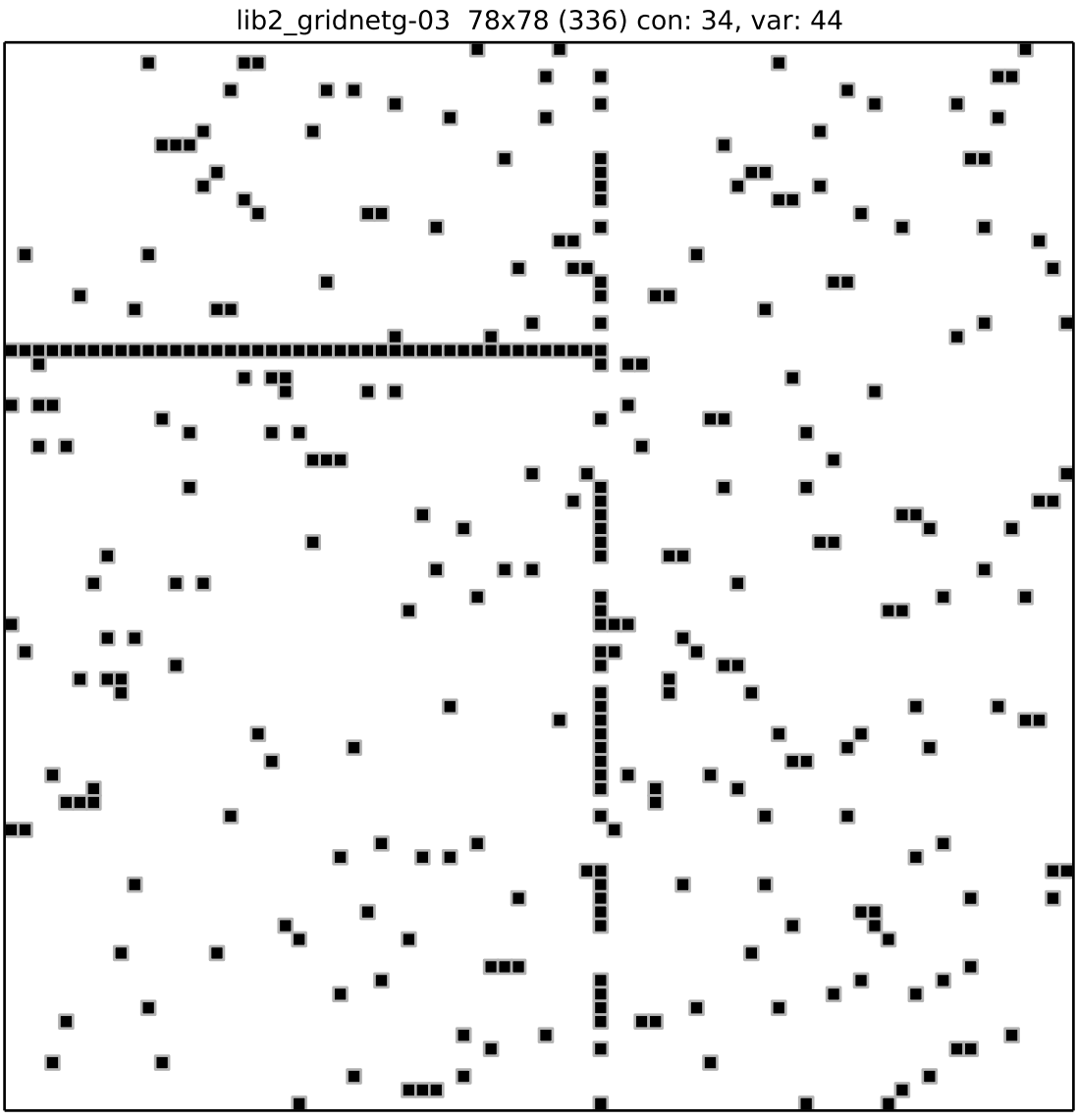
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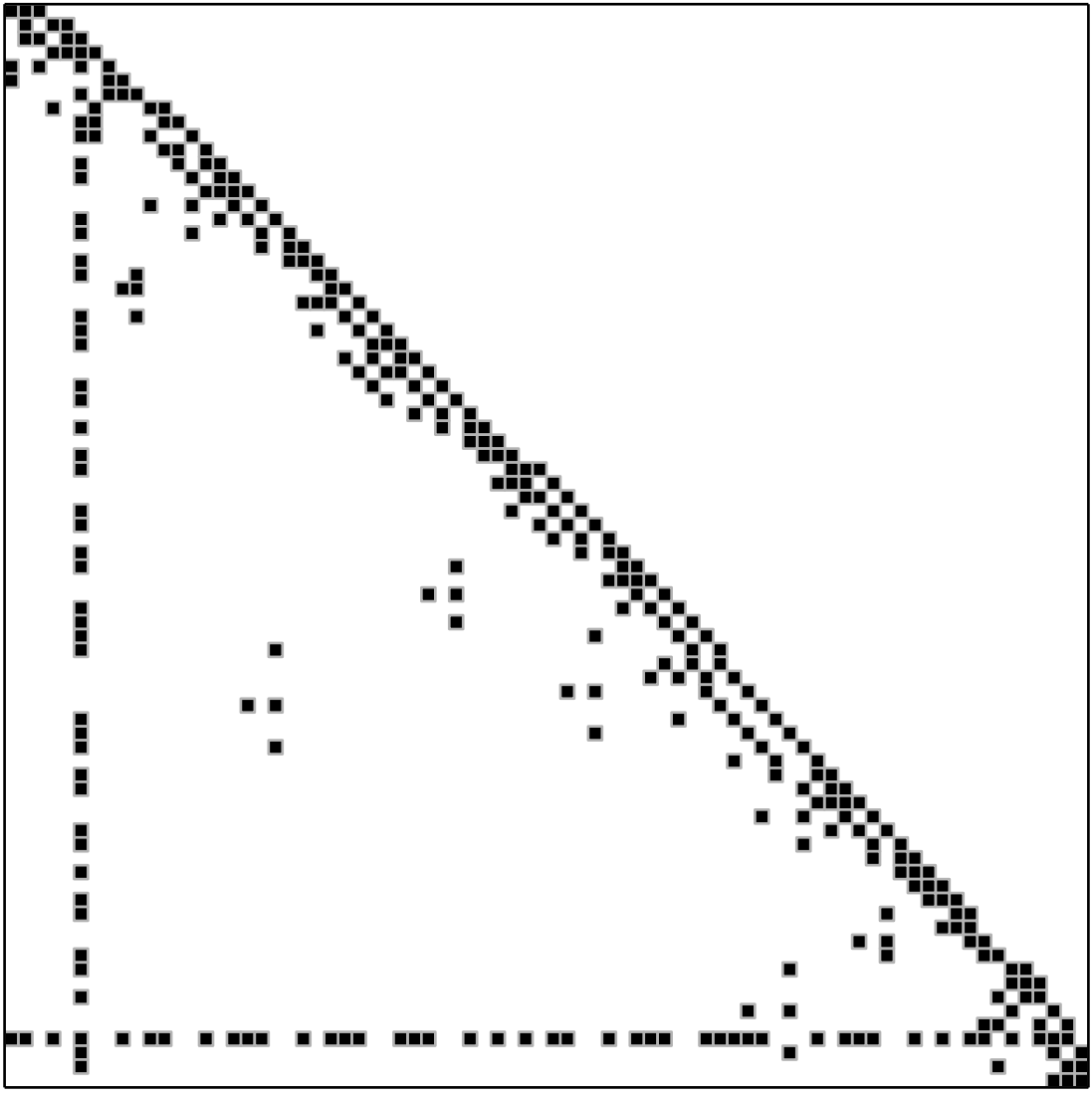
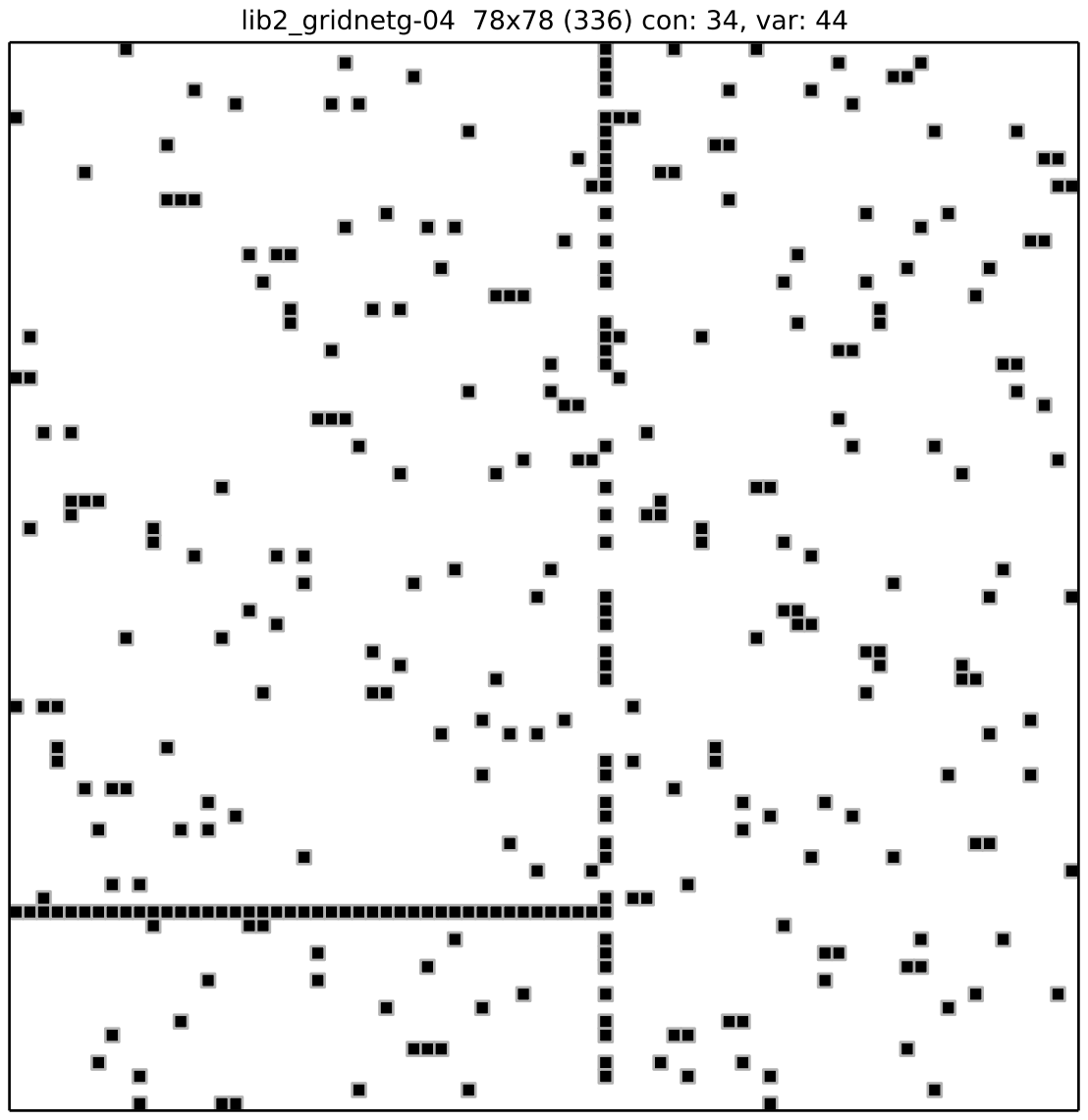
lib2_gridnetg-03, cost: 6, diff: 6, explored: 1355, time: 0.92s

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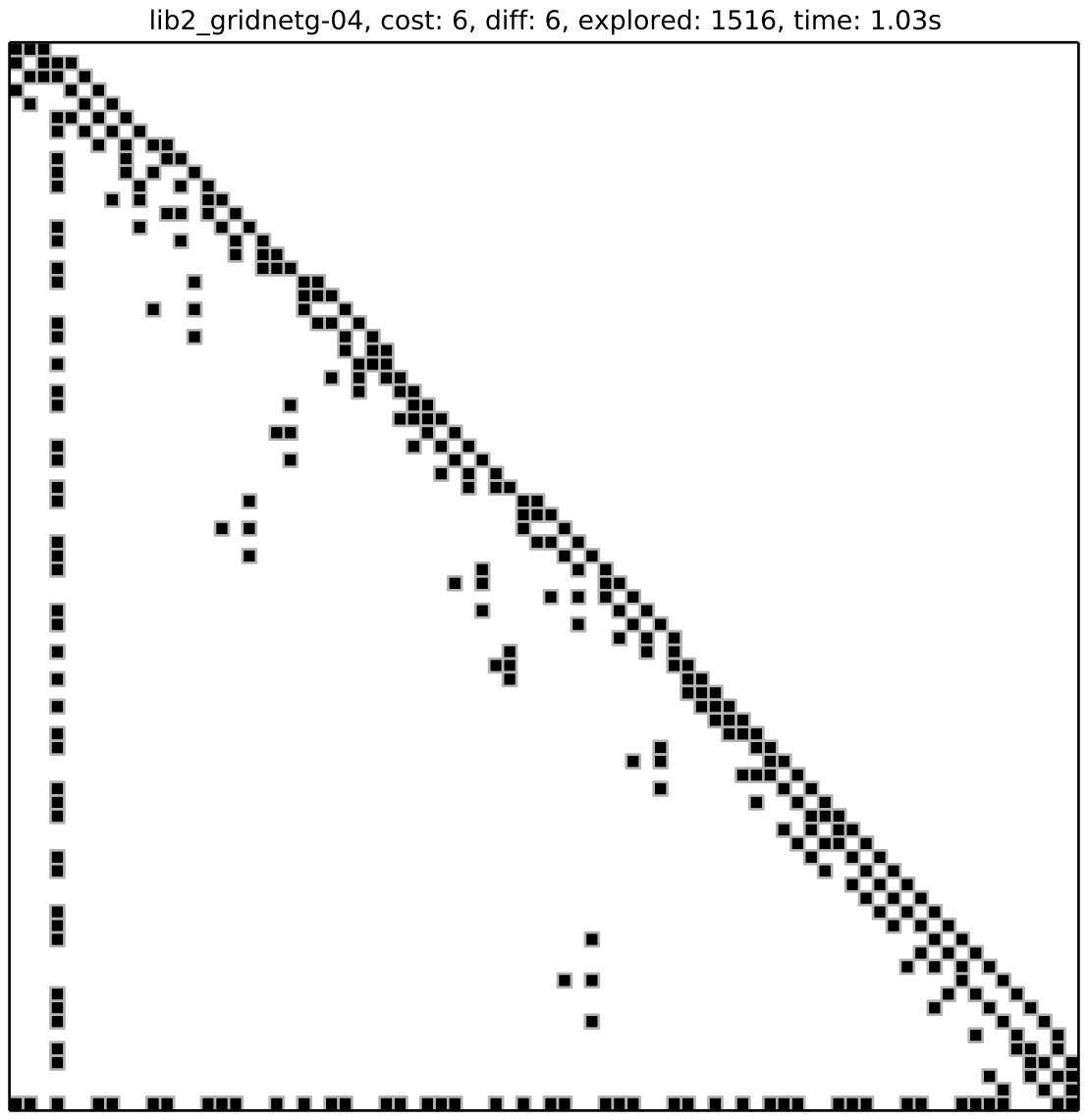
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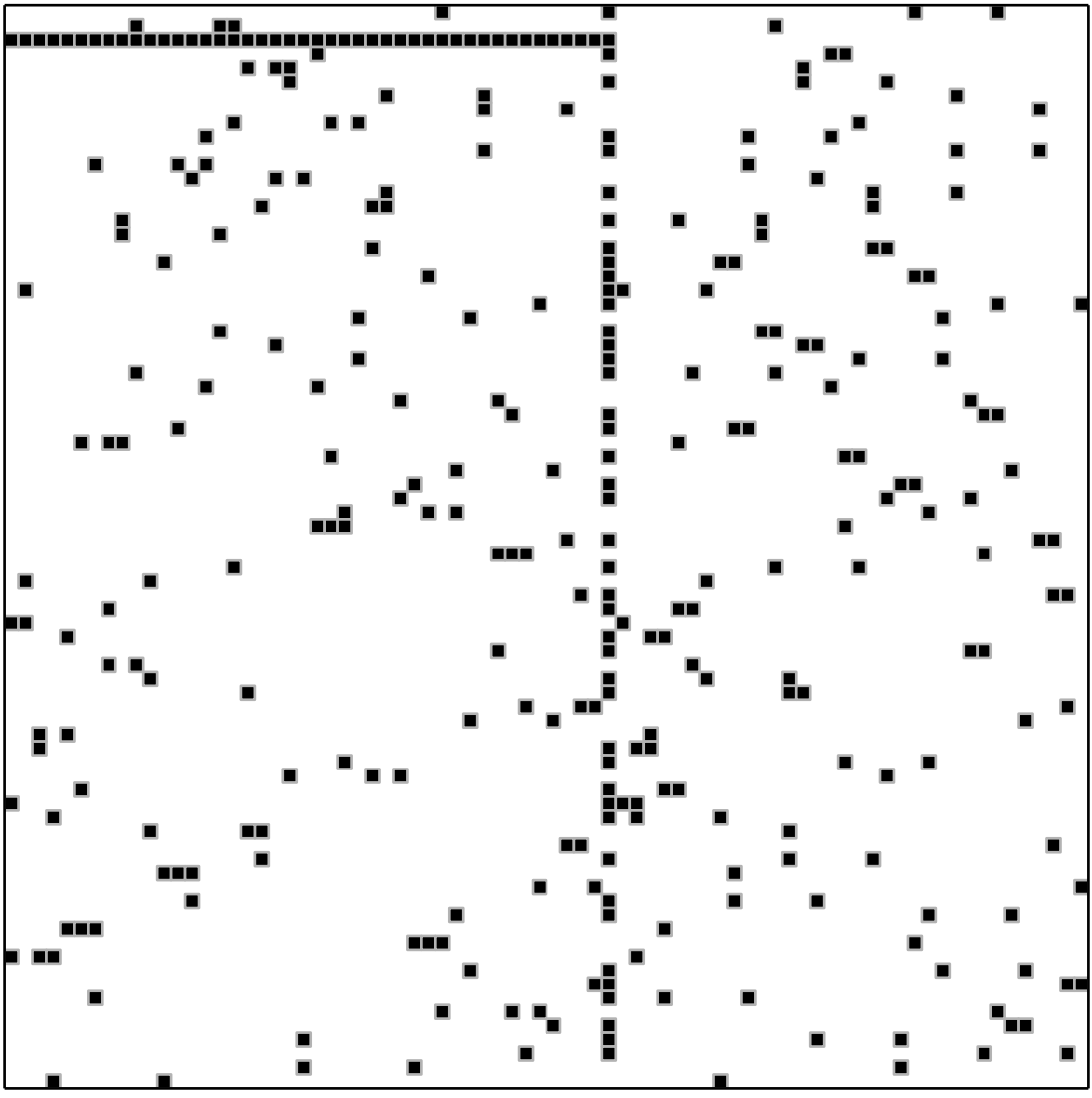
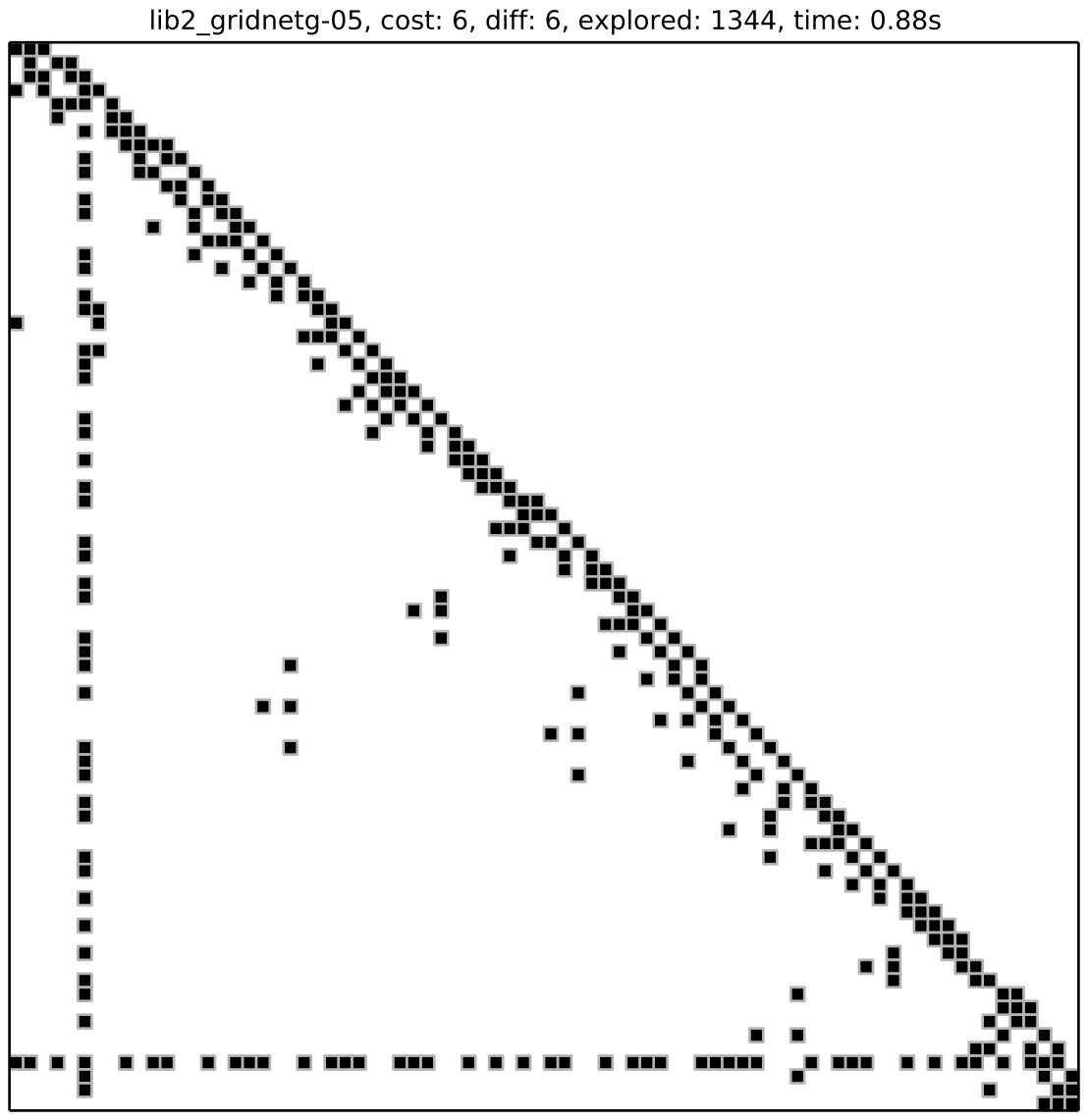
lib2_gridnetg-05 78x78 (336) con: 34, var: 44

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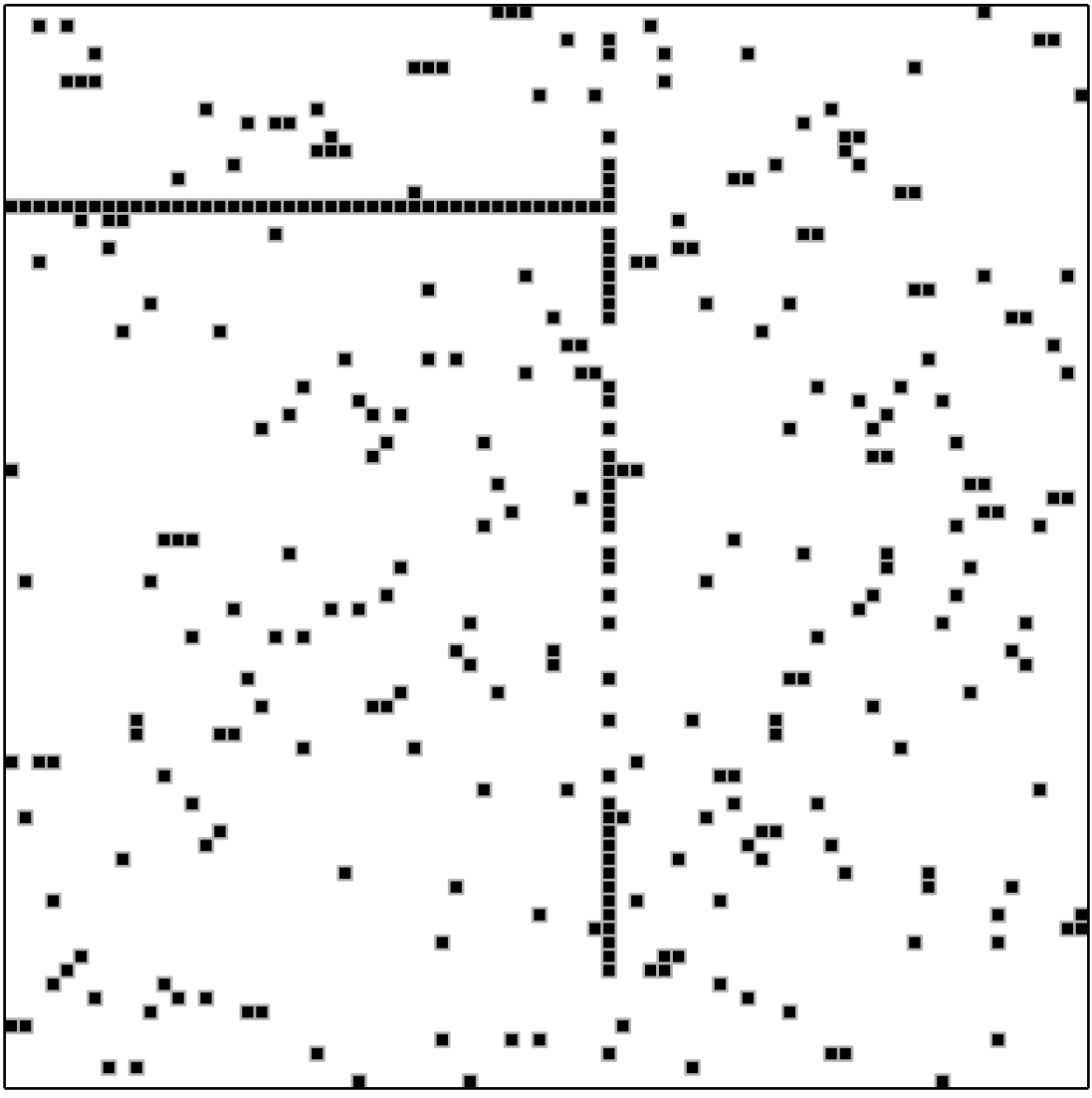
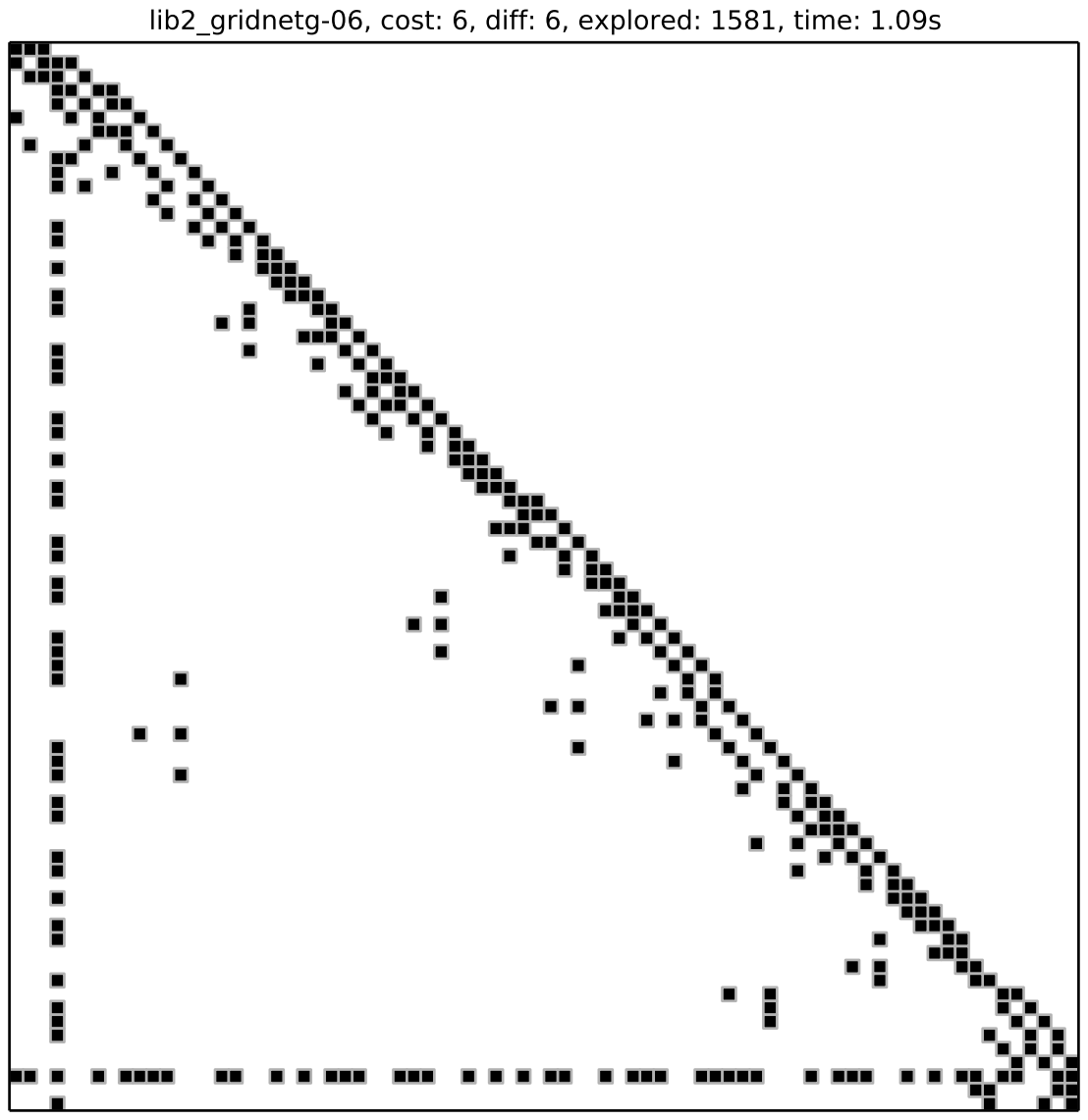
lib2_gridnetg-06 78x78 (336) con: 34, var: 44

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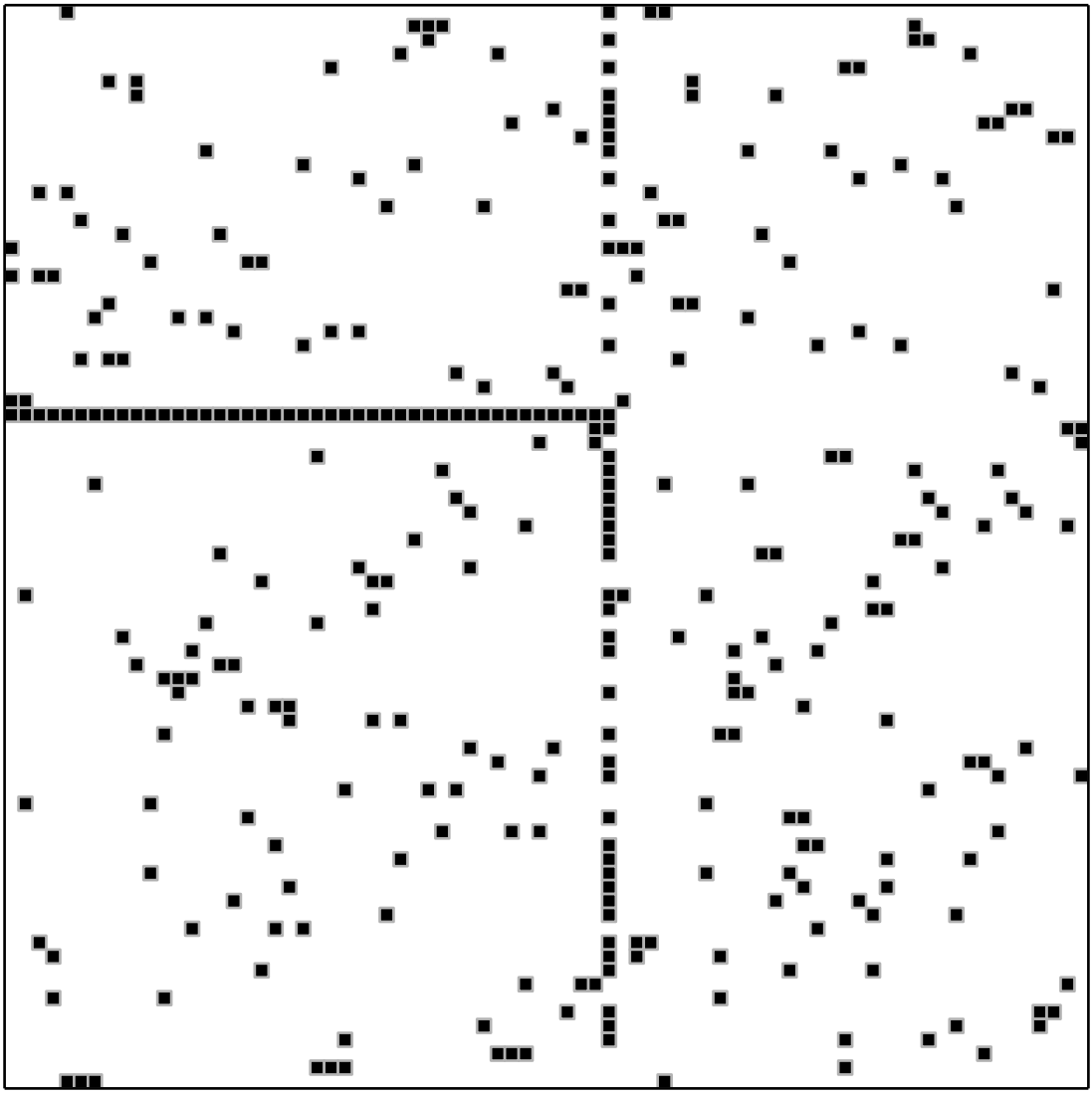
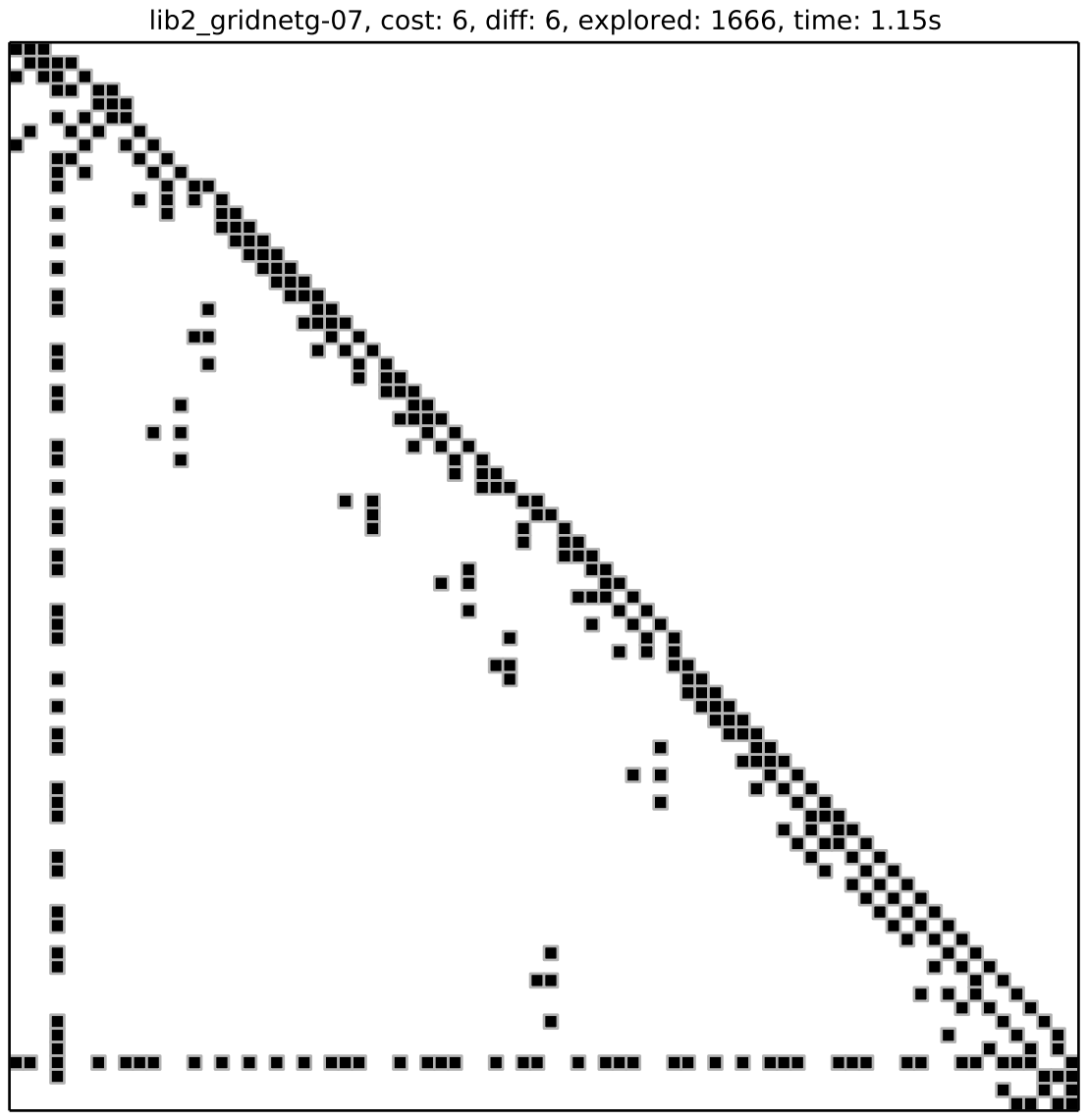
lib2_gridnetg-07 78x78 (336) con: 34, var: 44

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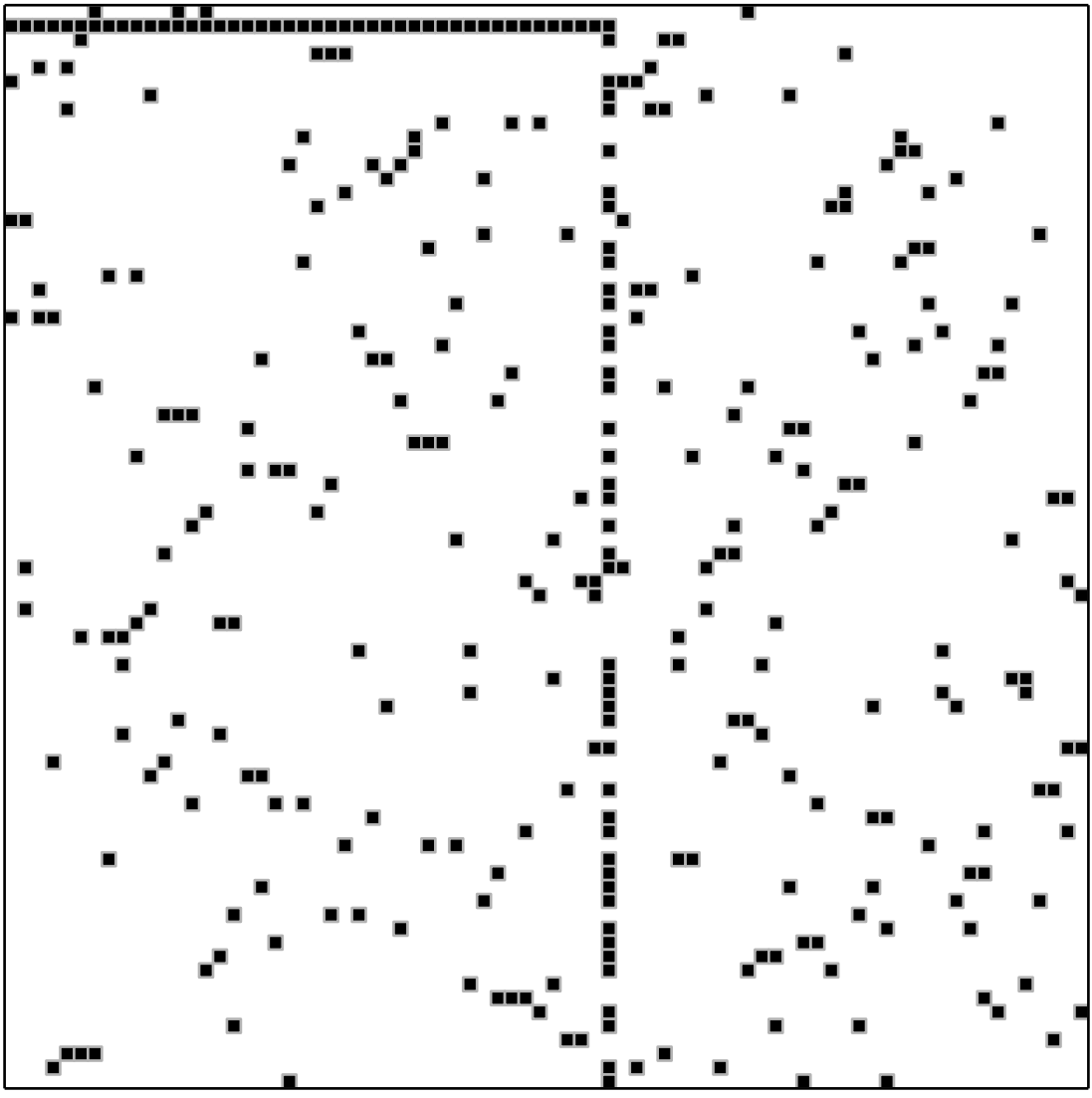
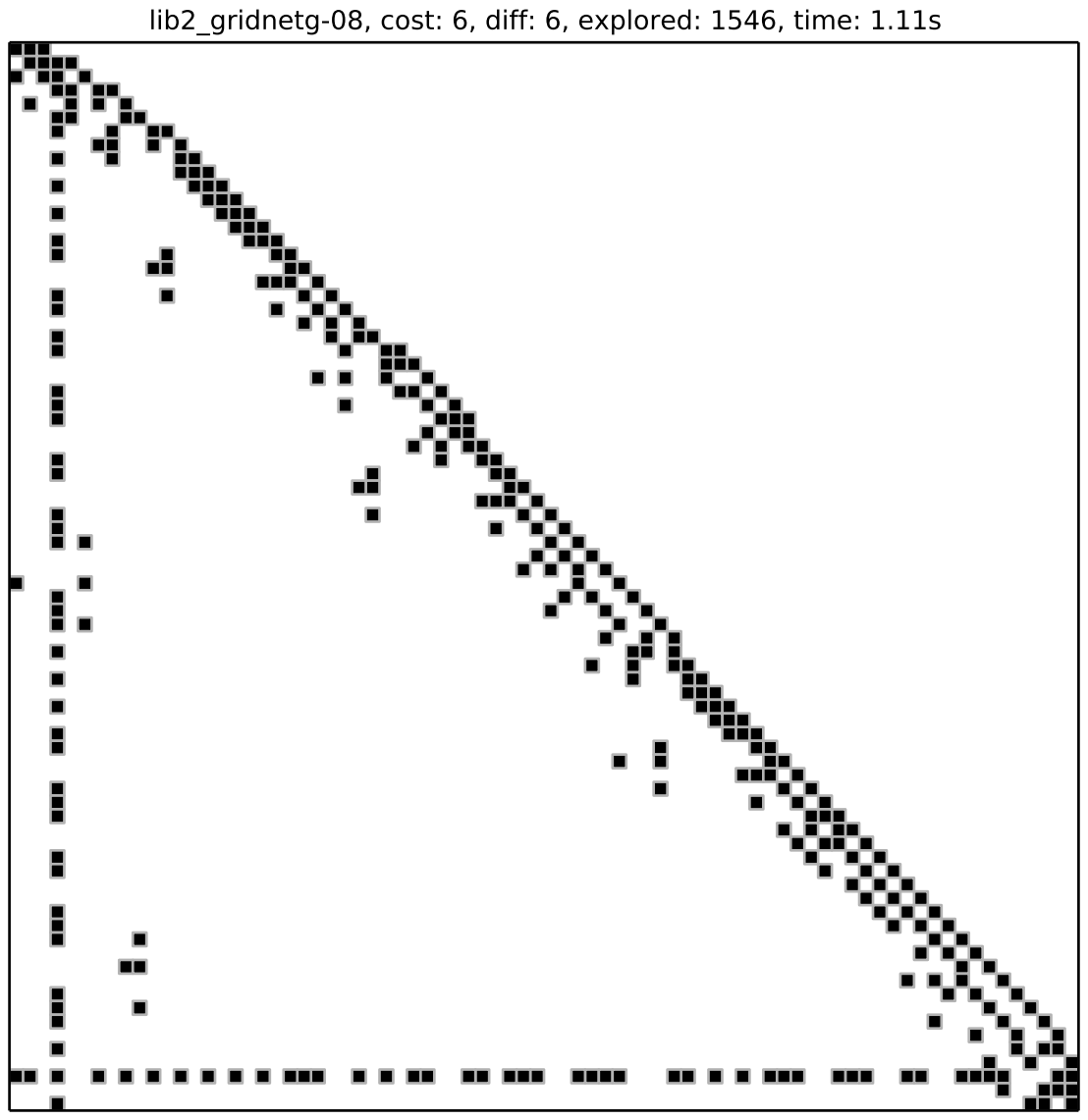
lib2_gridnetg-08 78x78 (336) con: 34, var: 44

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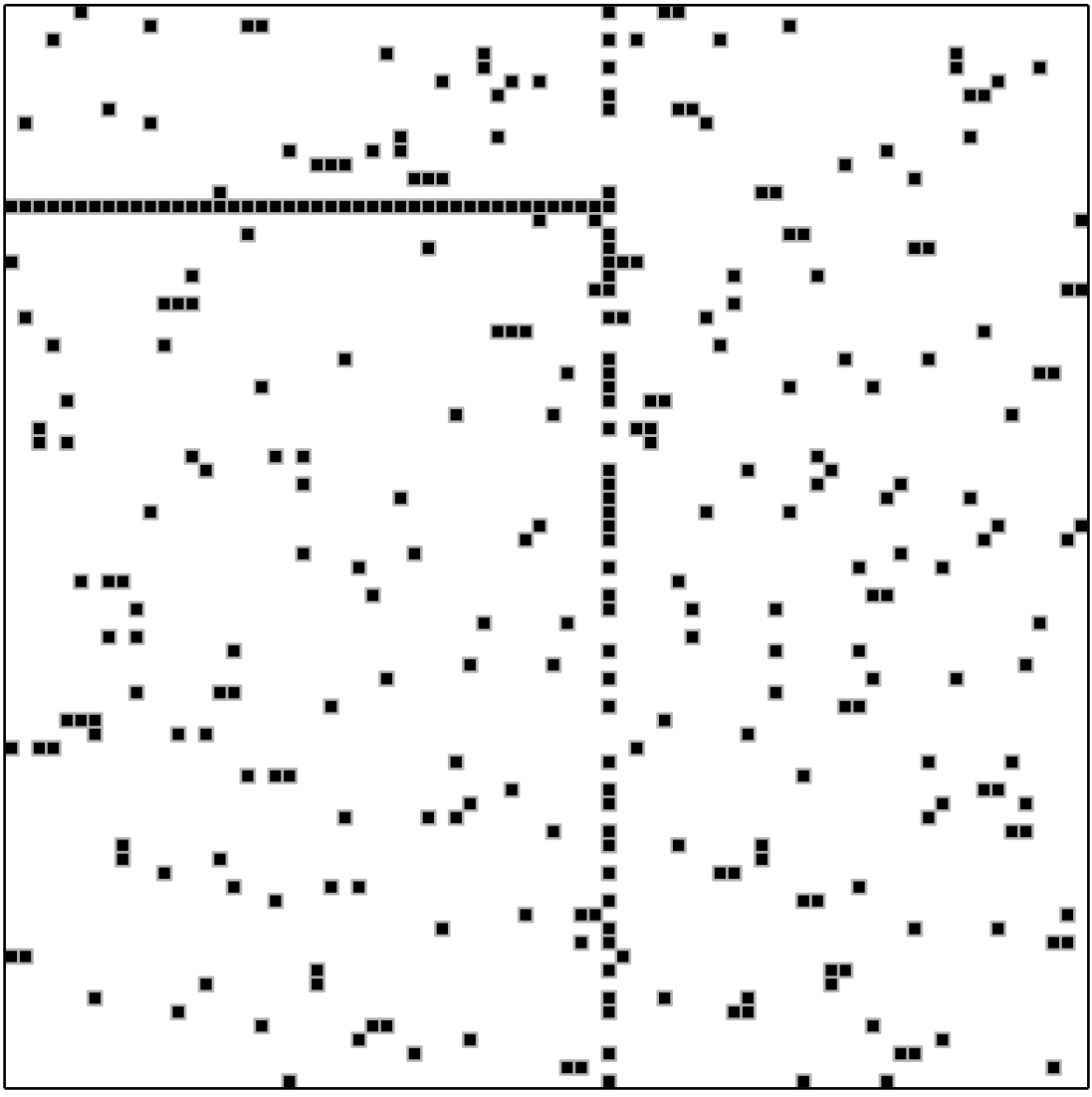
lib2_gridnetg-09 78x78 (336) con: 34, var: 44



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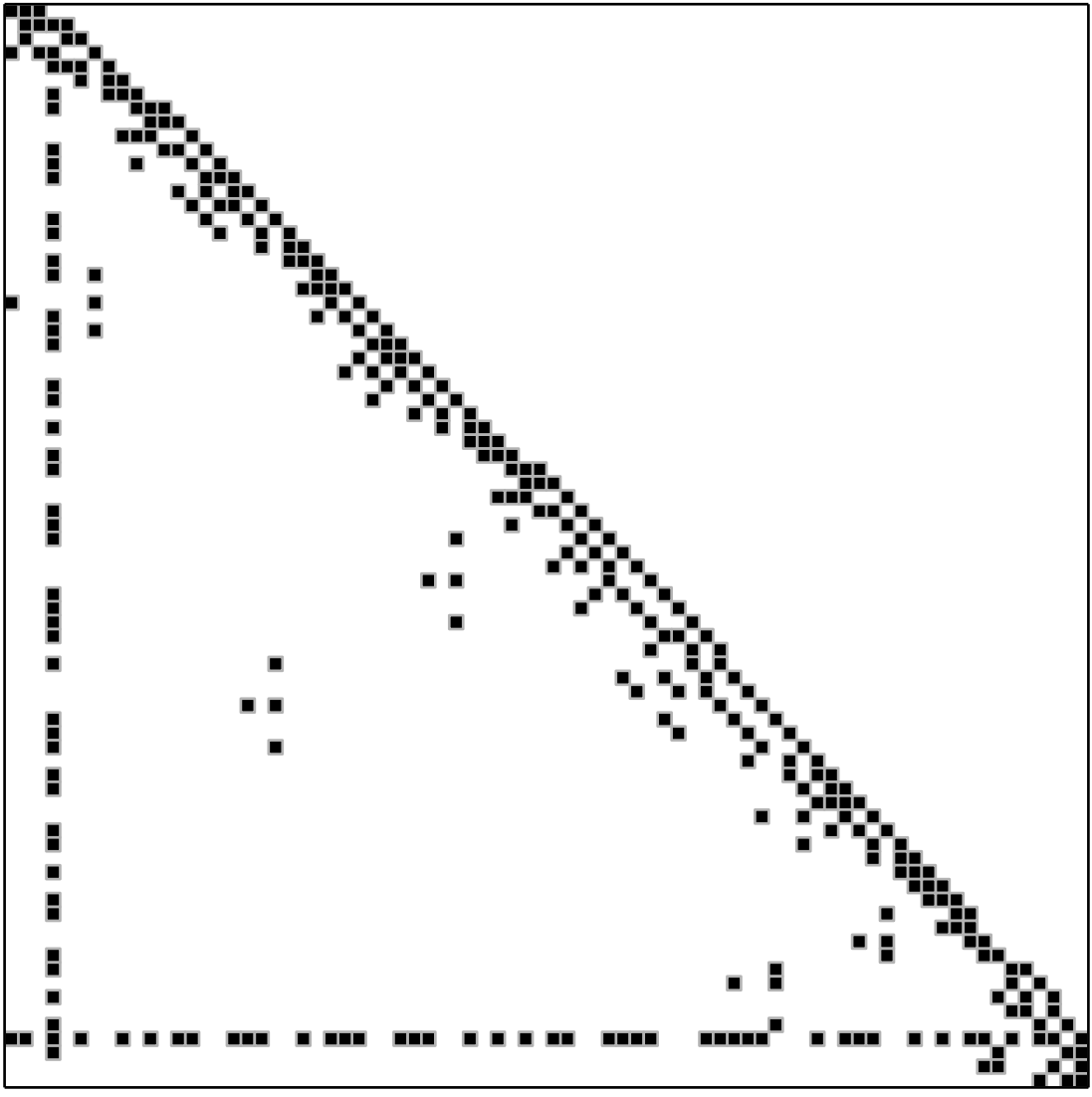

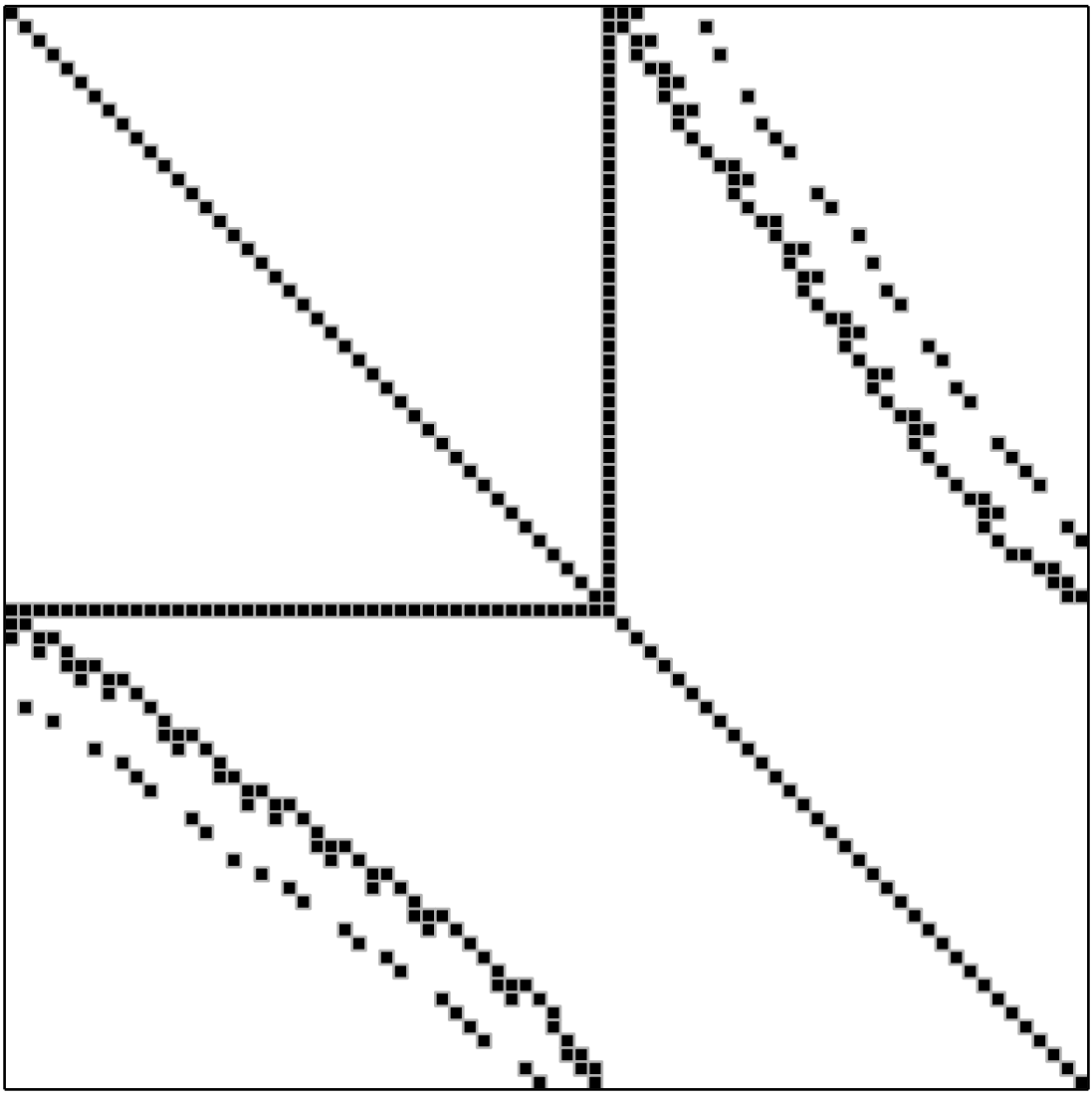
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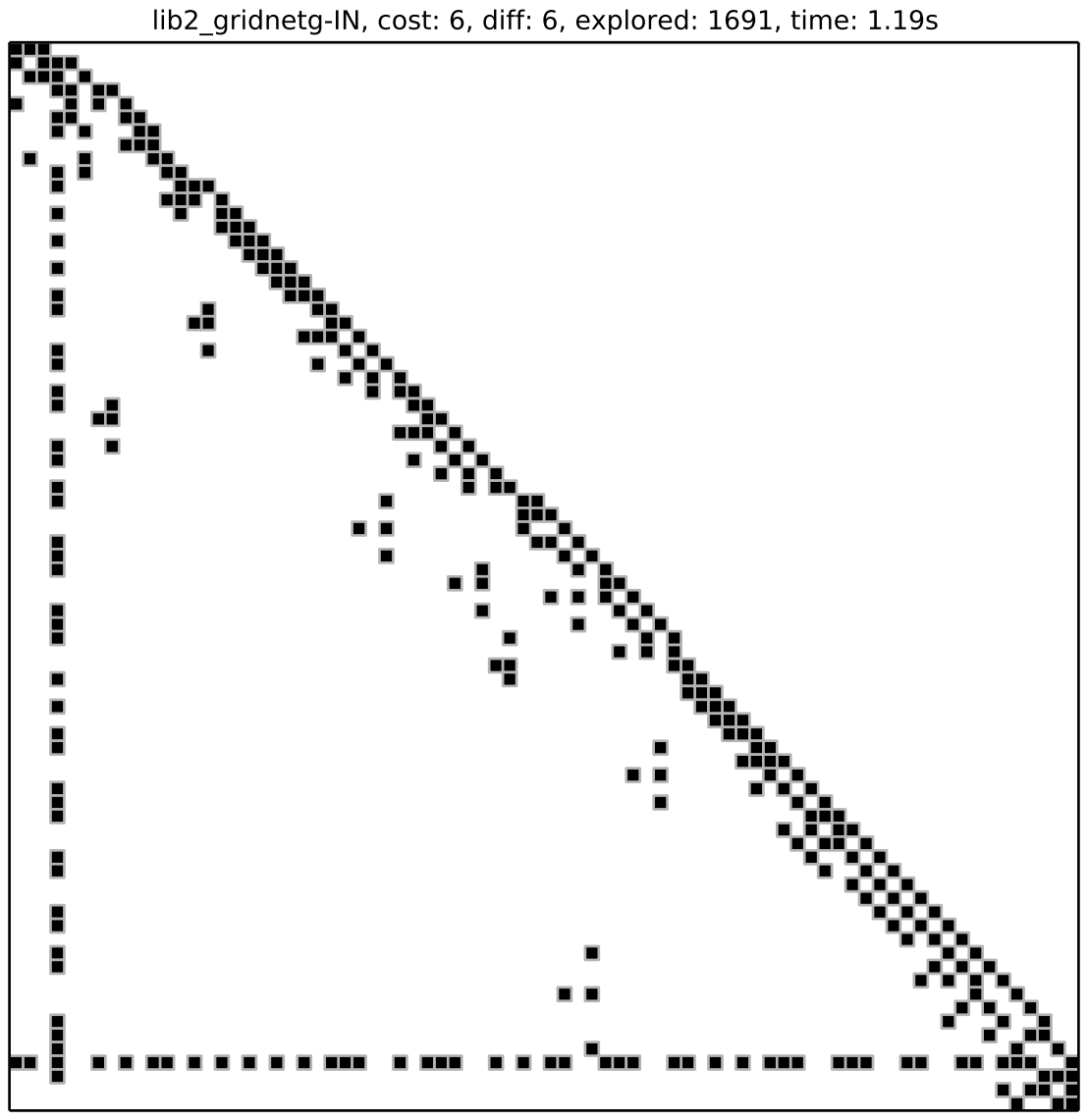
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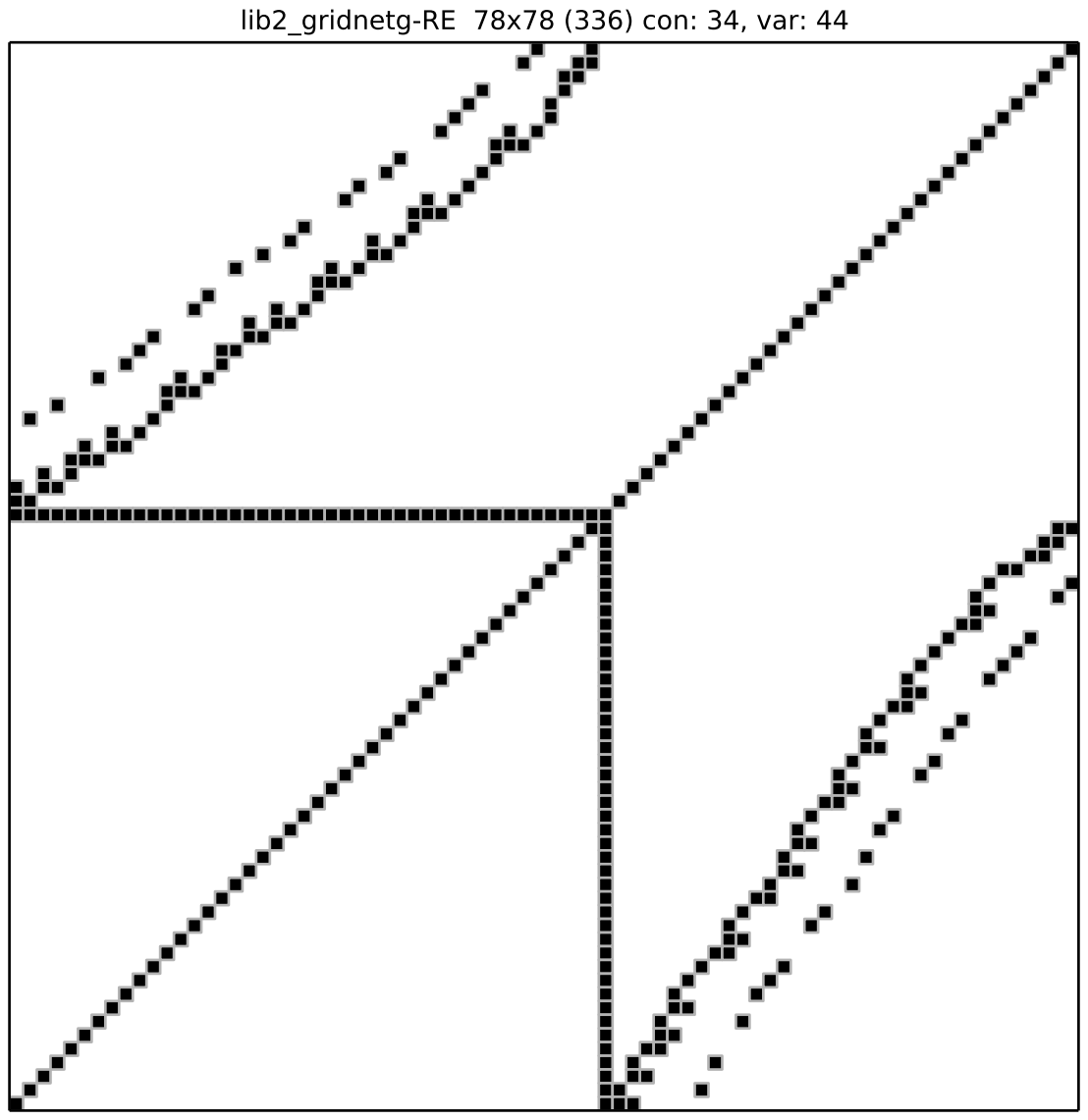
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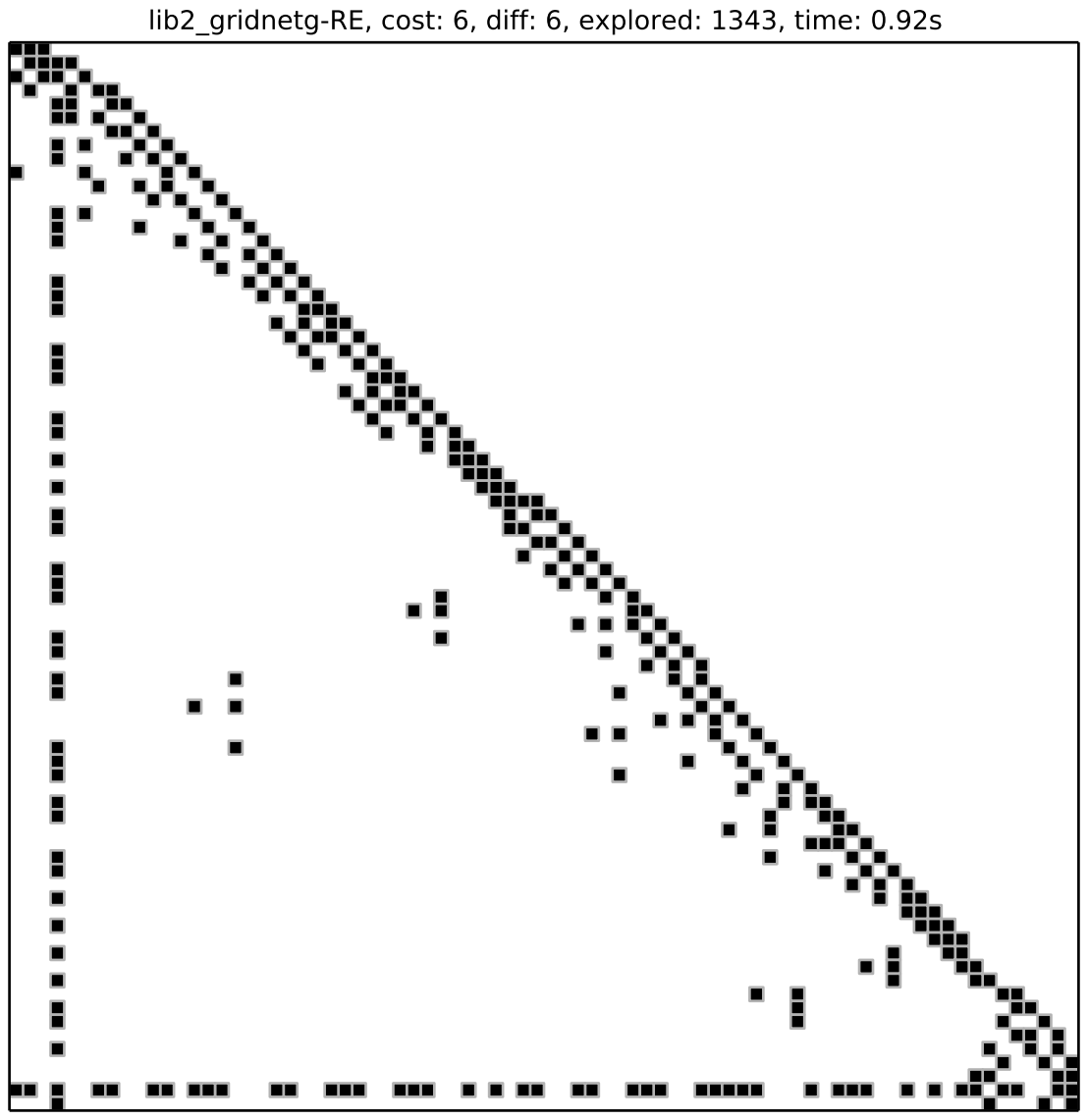
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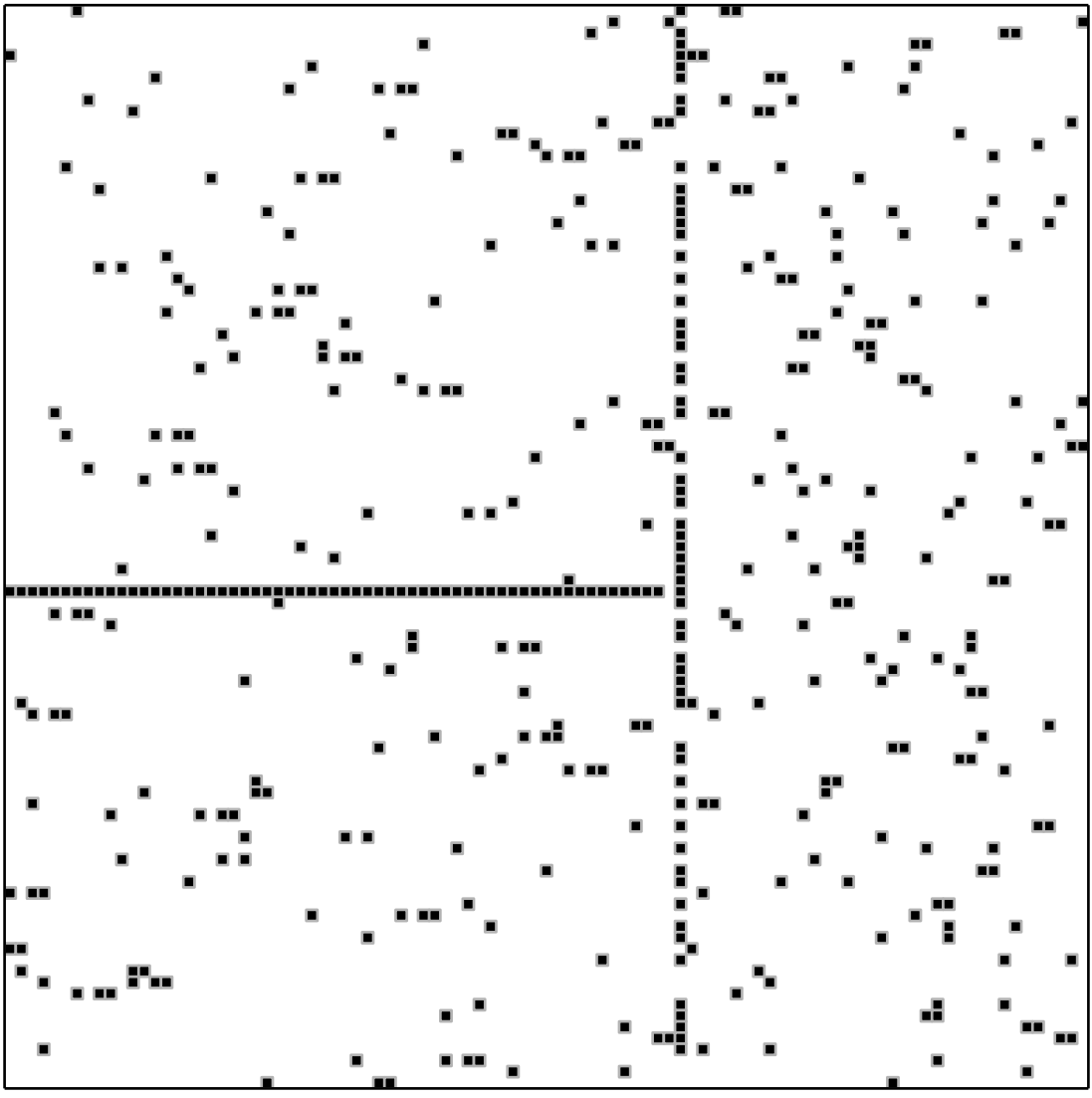
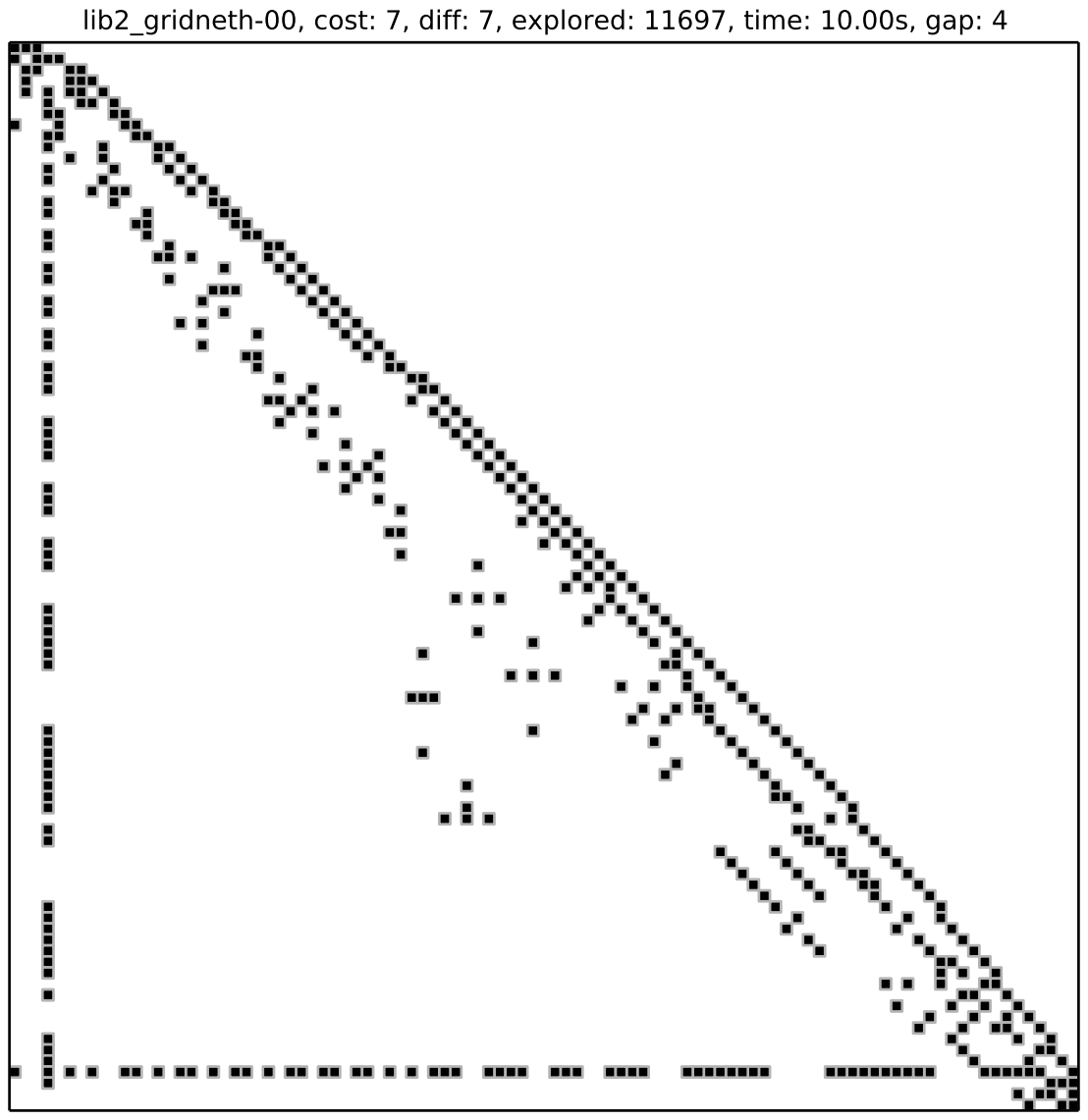
lib2_gridneth-00 97x97 (457) con: 36, var: 61

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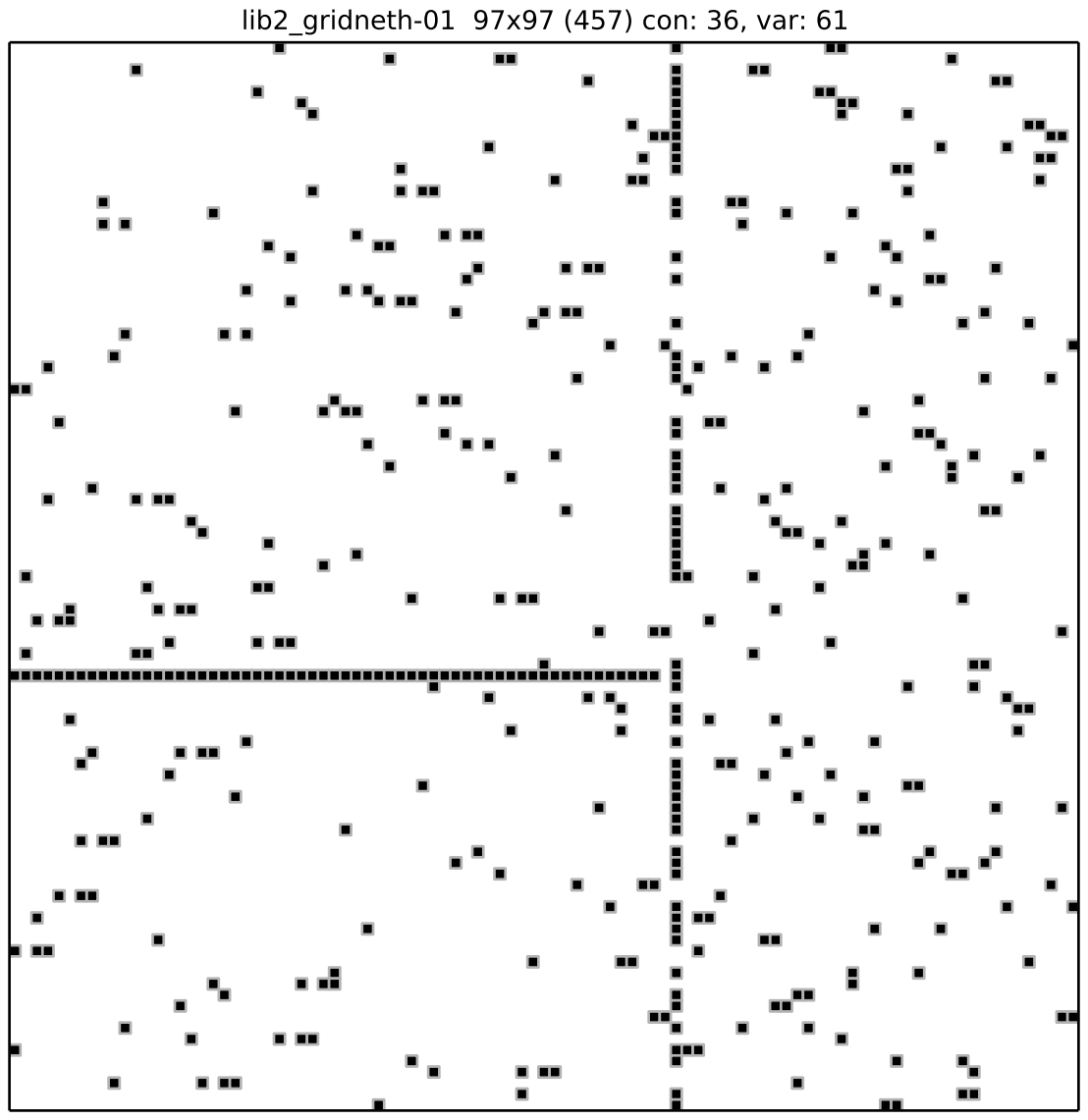
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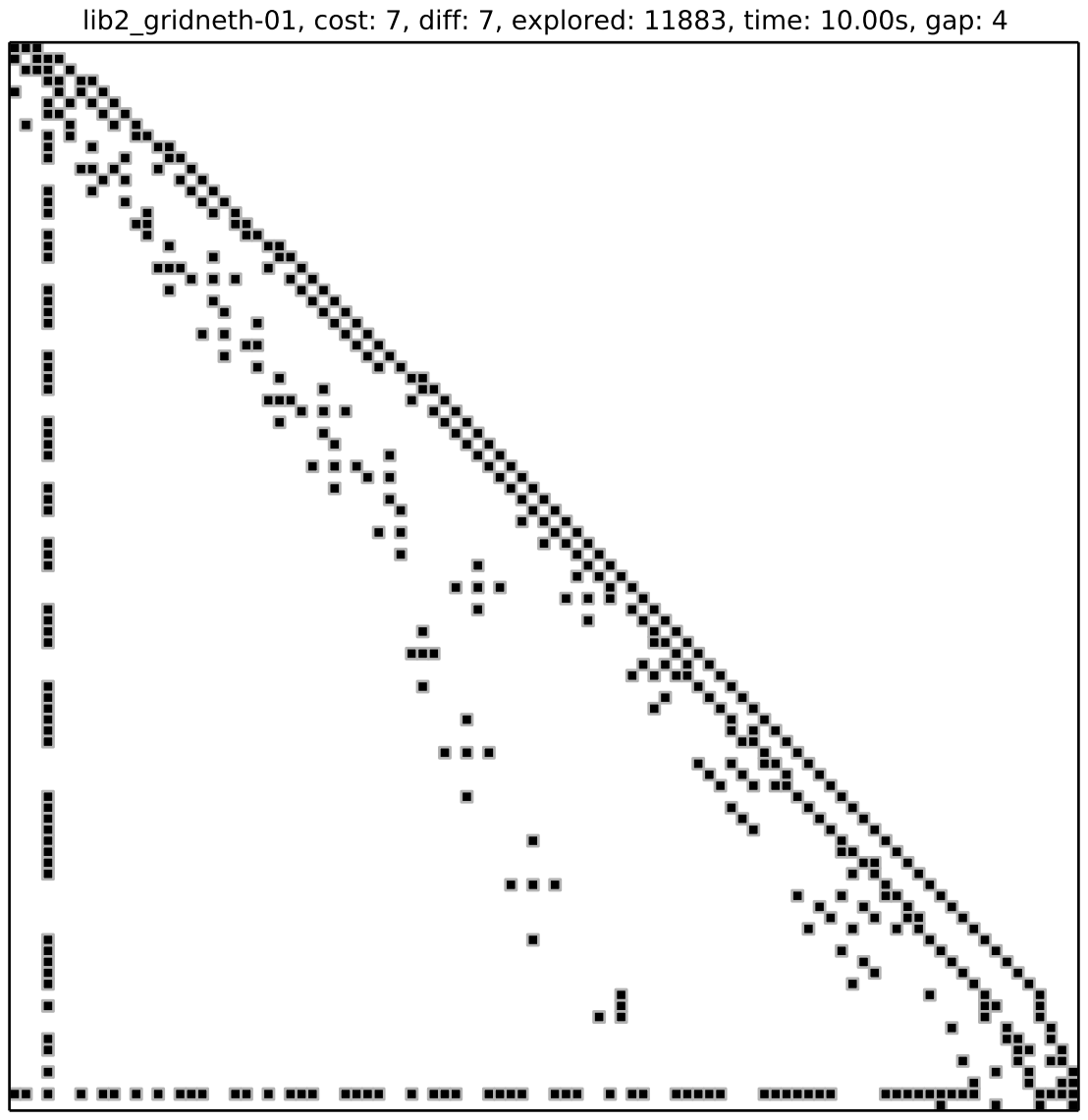
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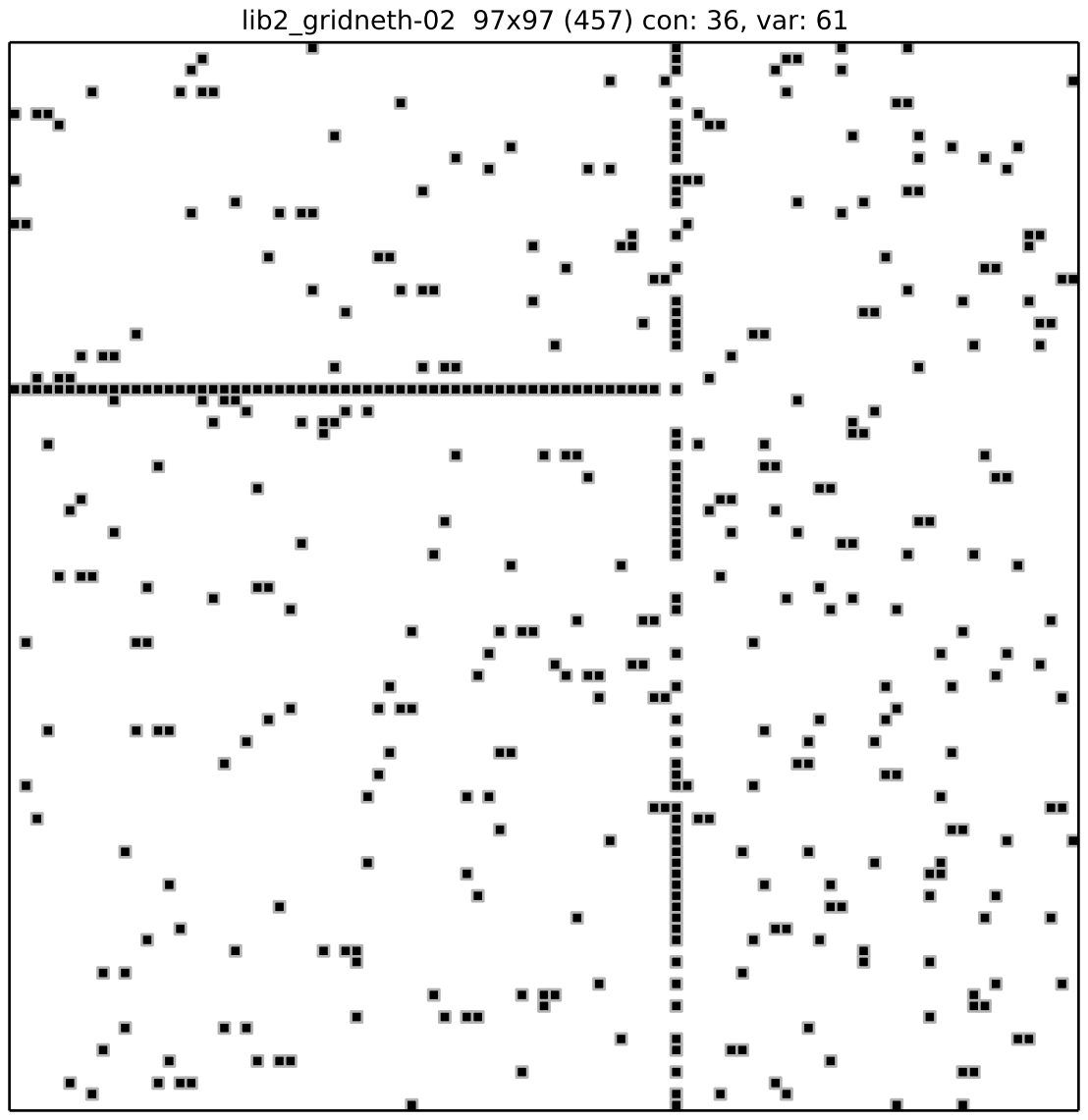
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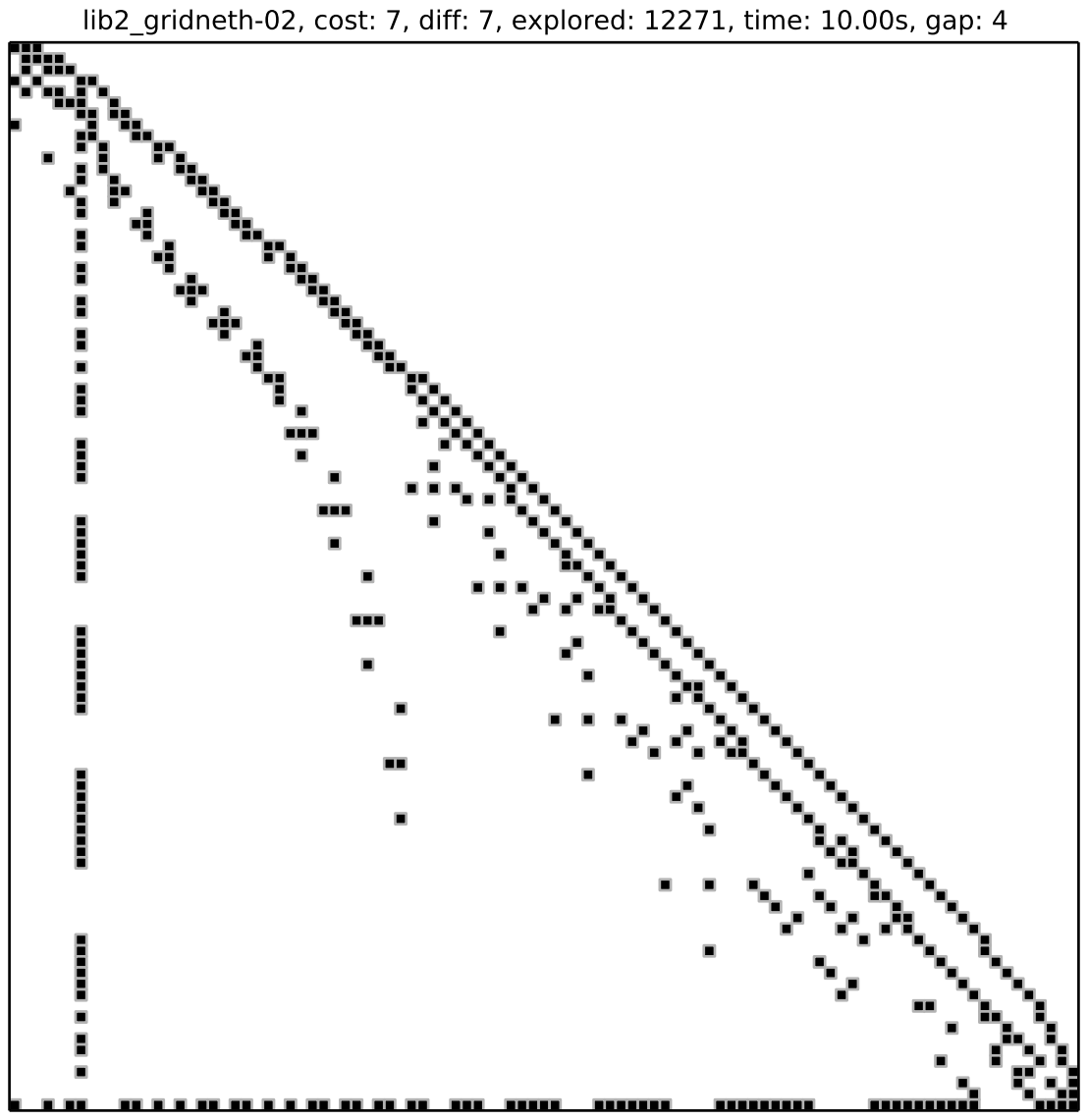
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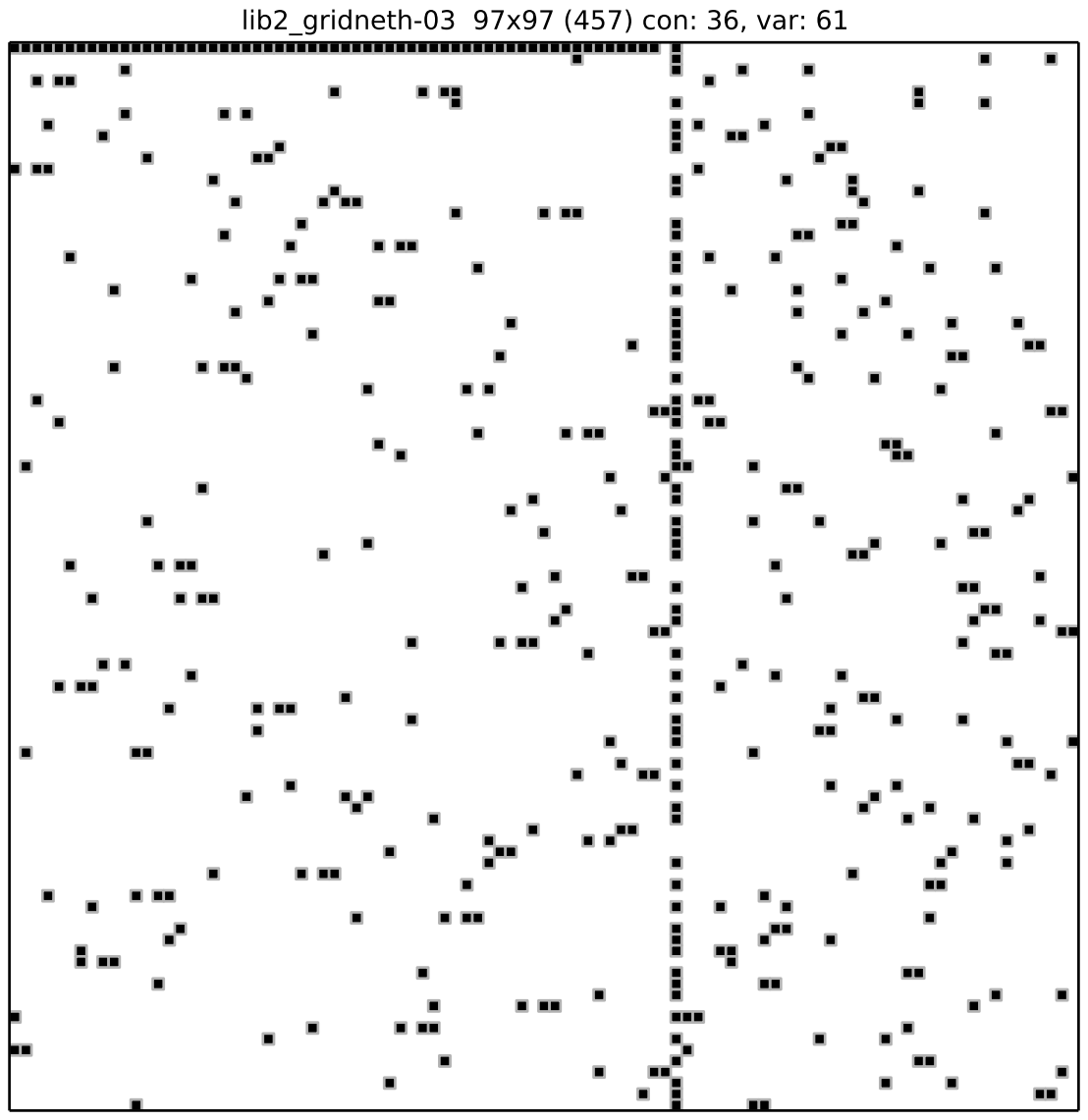
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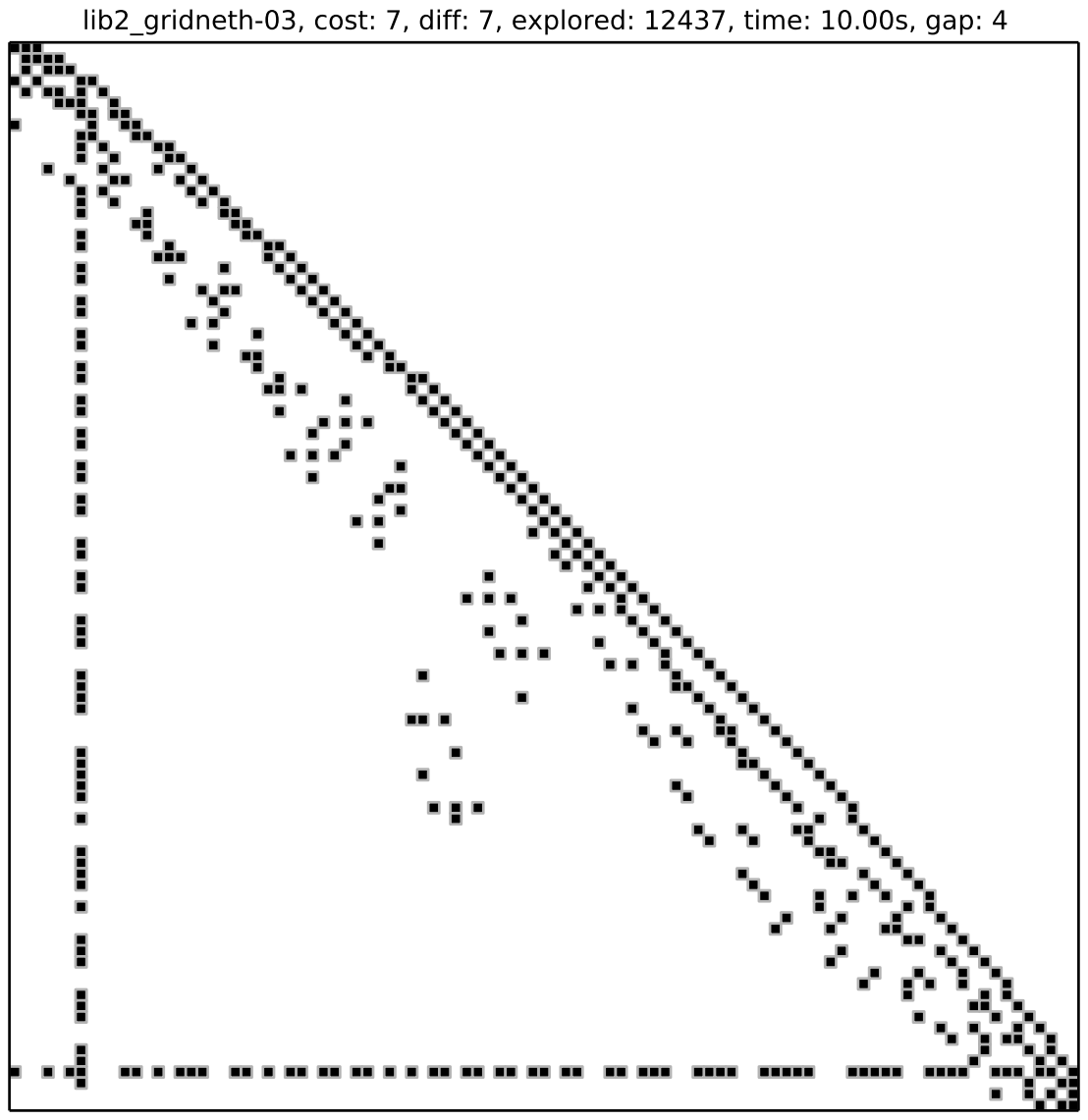
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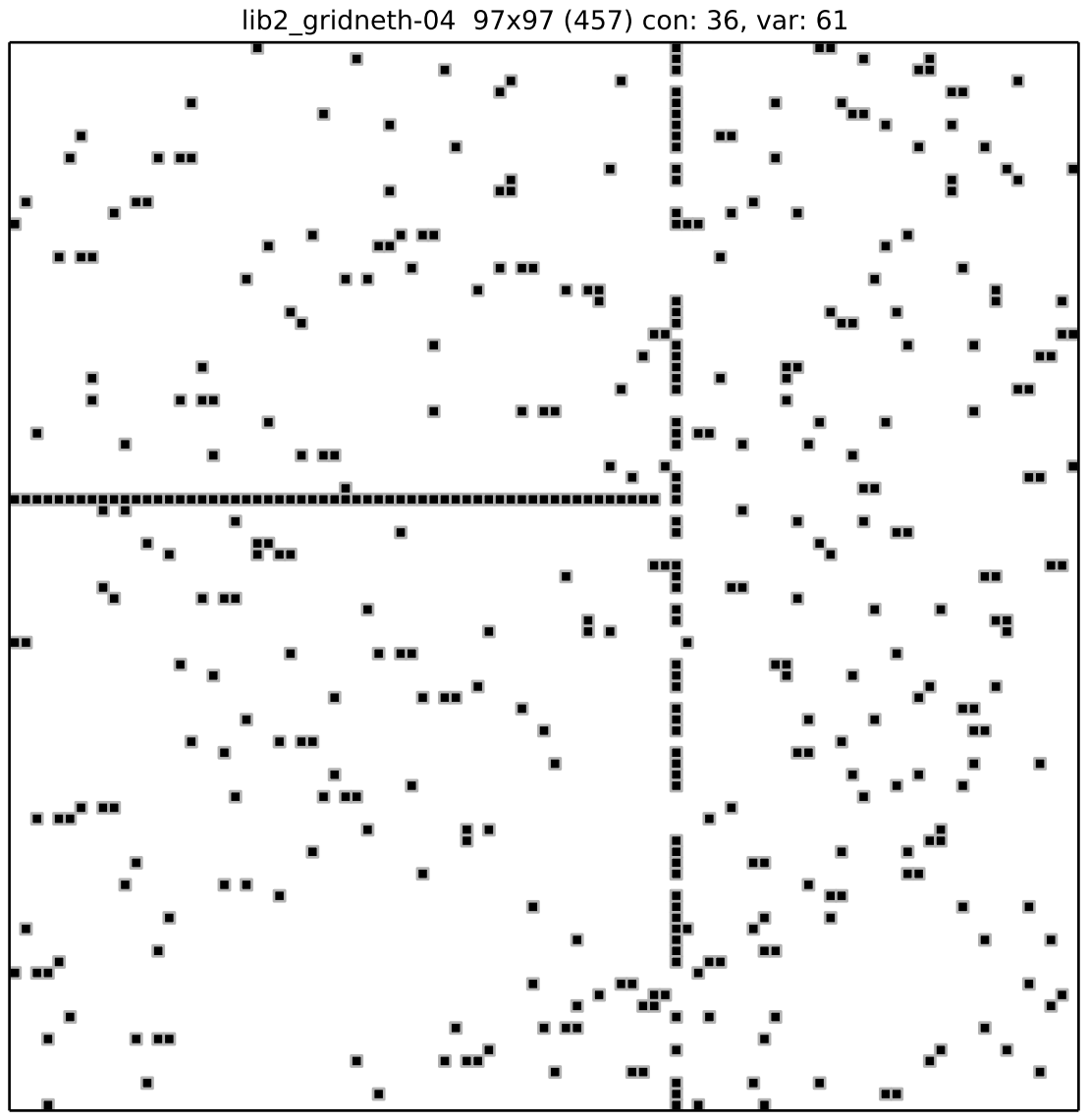
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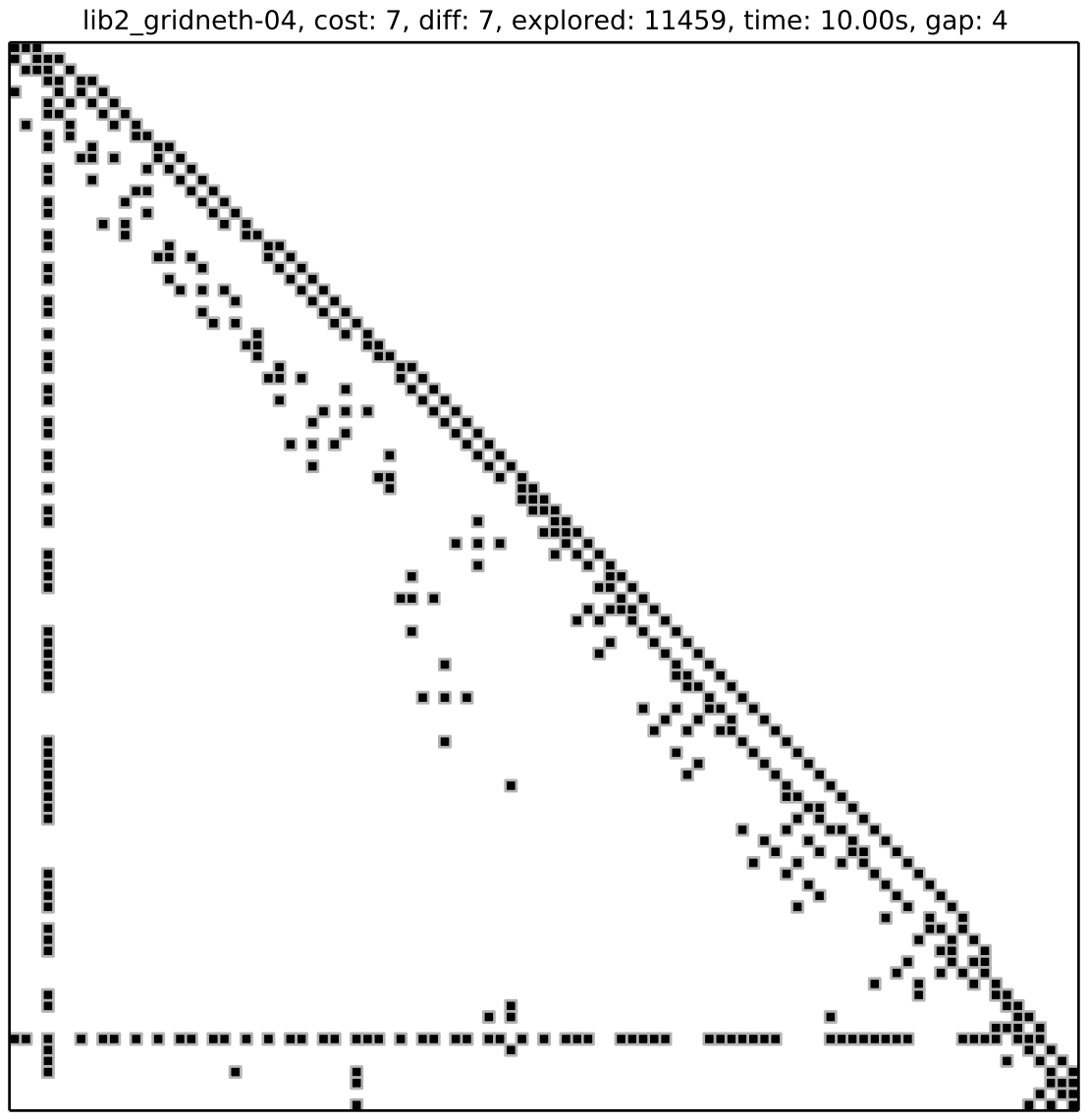
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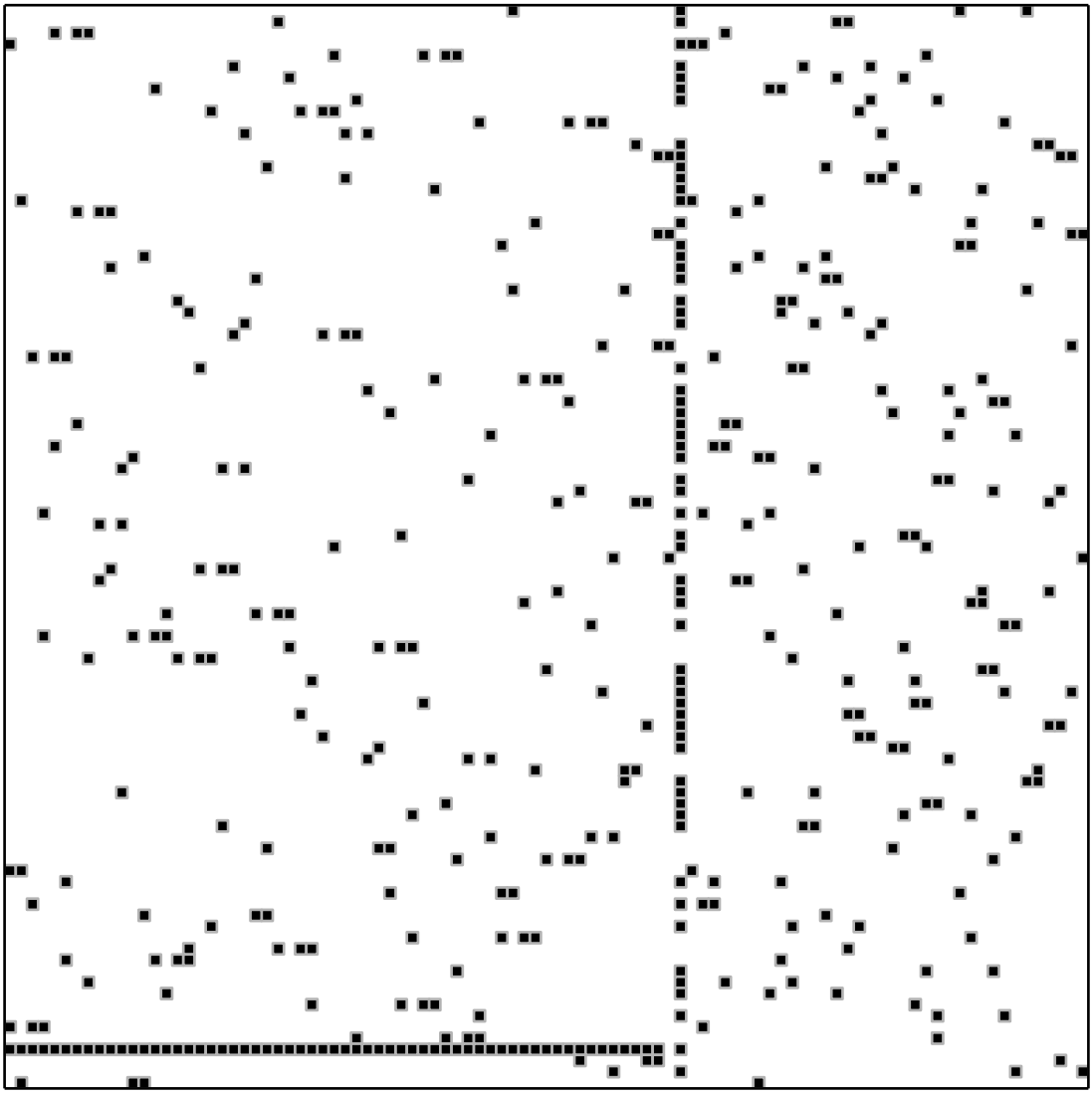

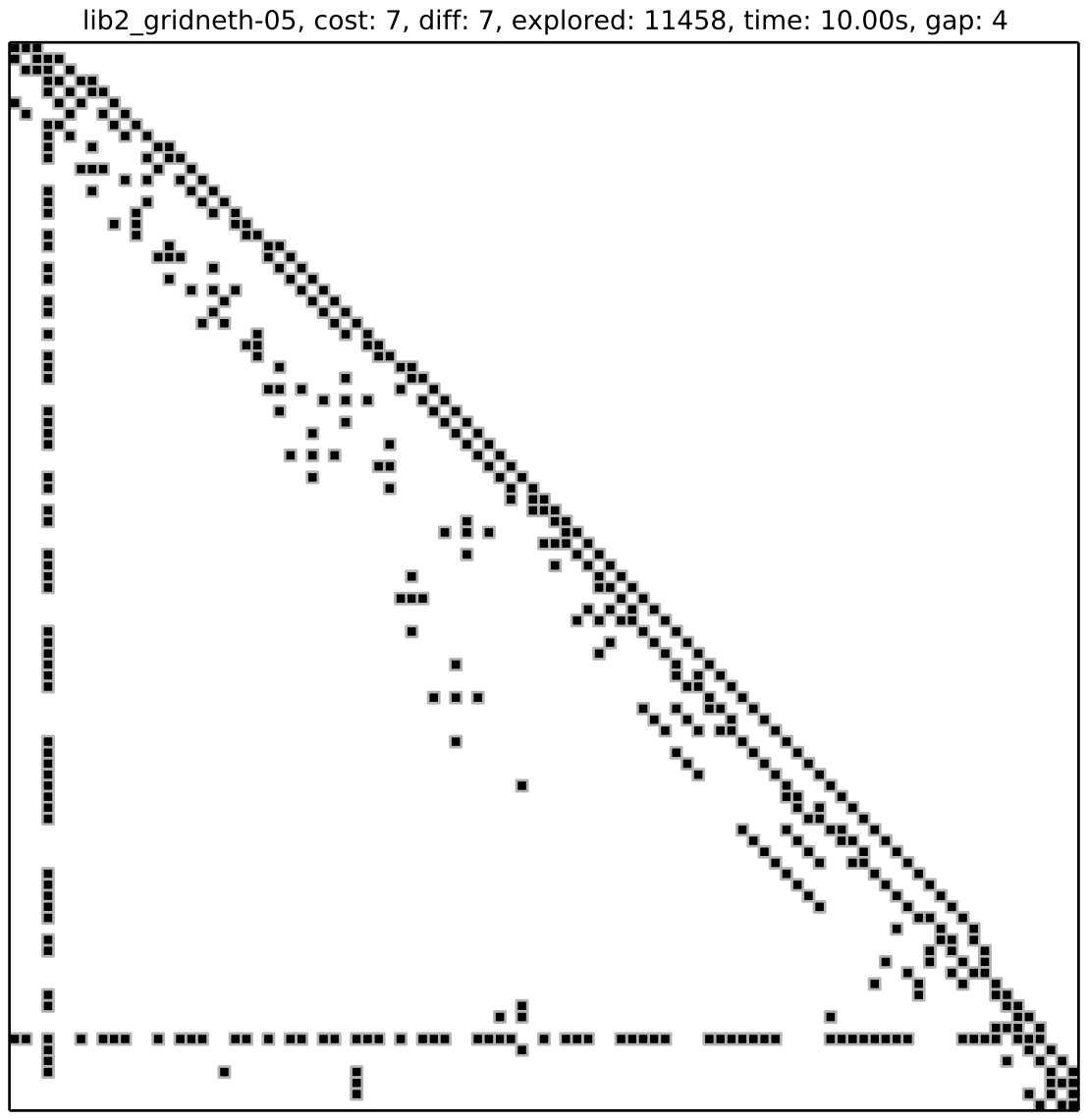
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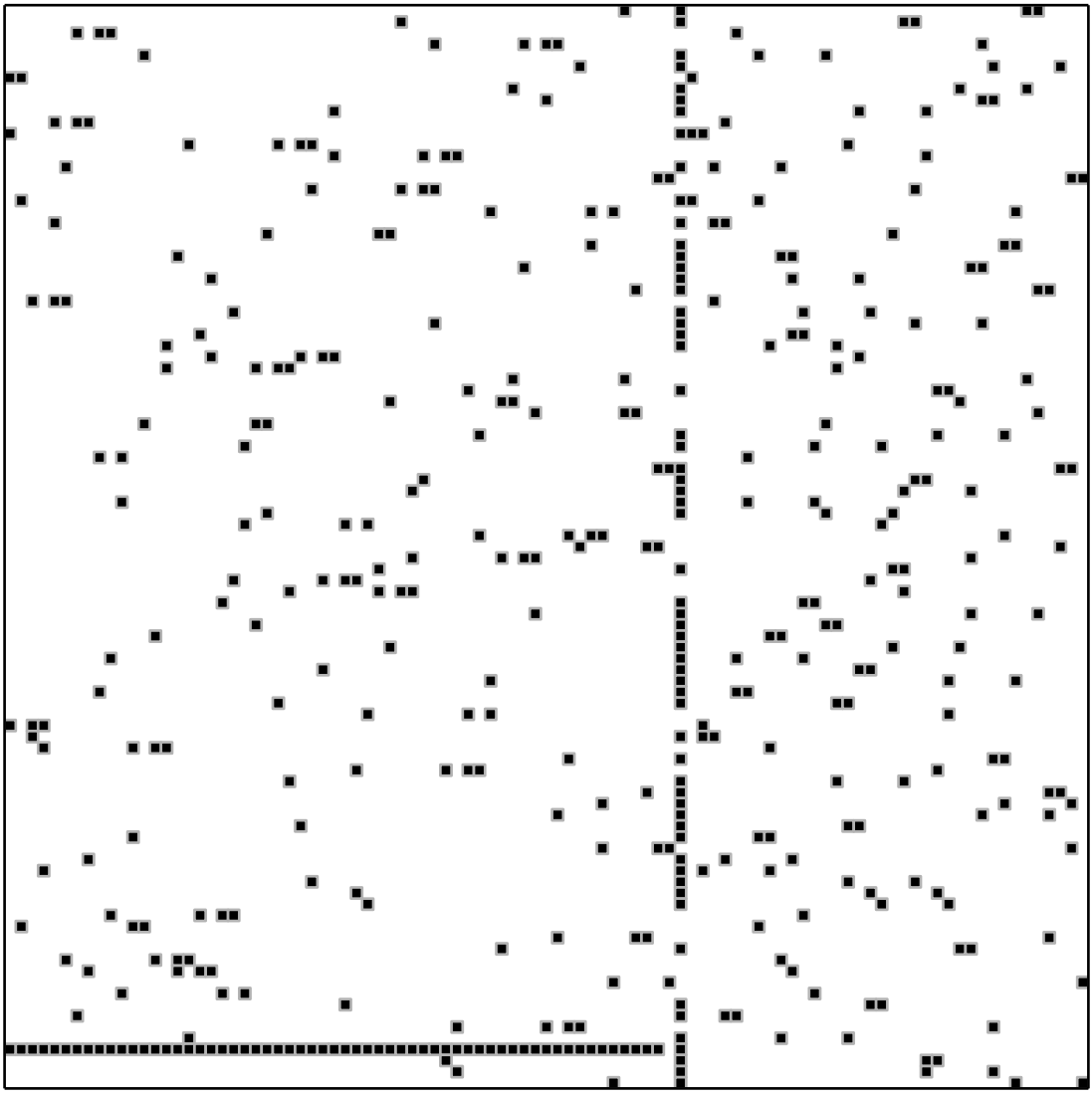
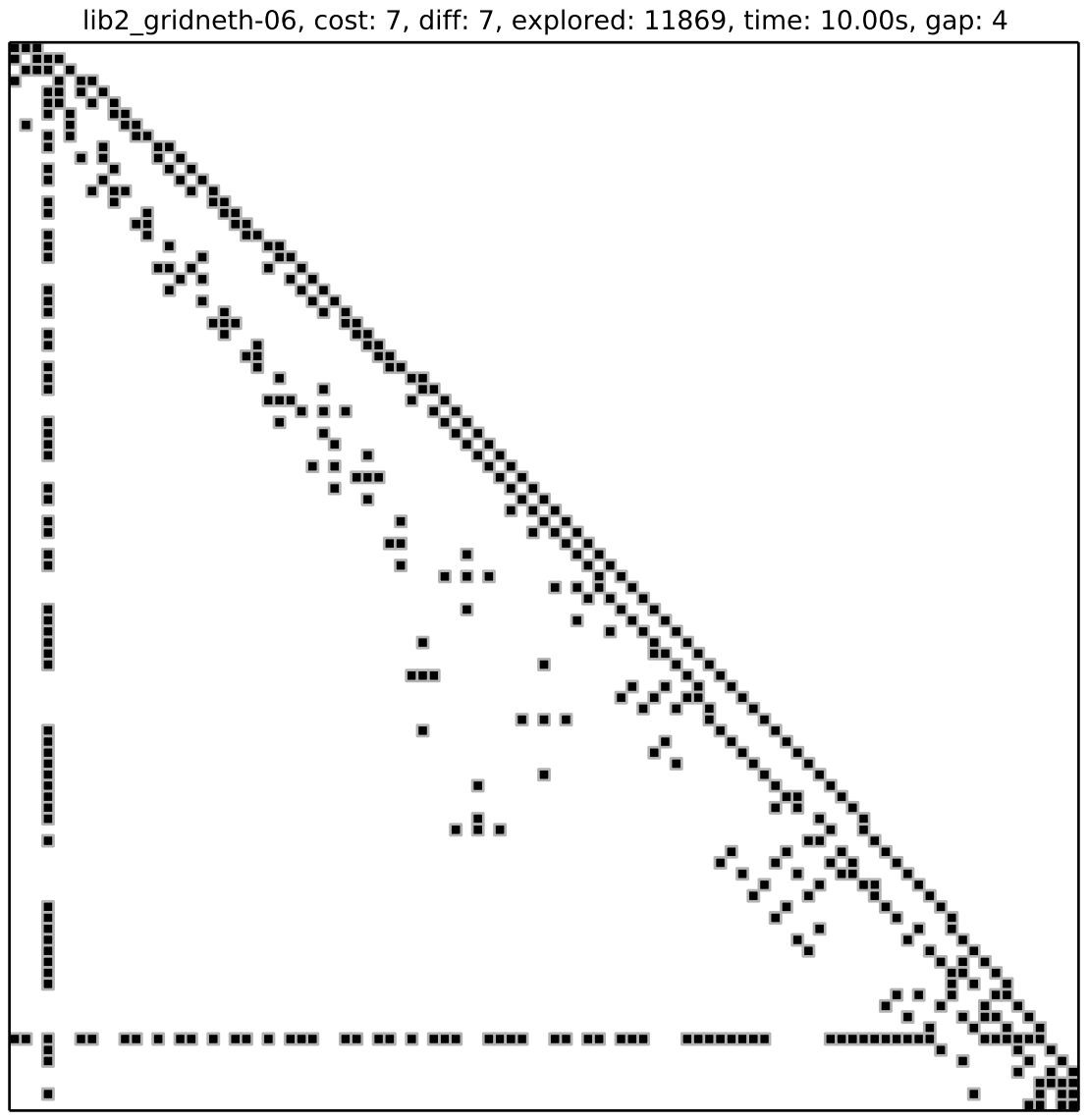
lib2_gridneth-06 97x97 (457) con: 36, var: 61

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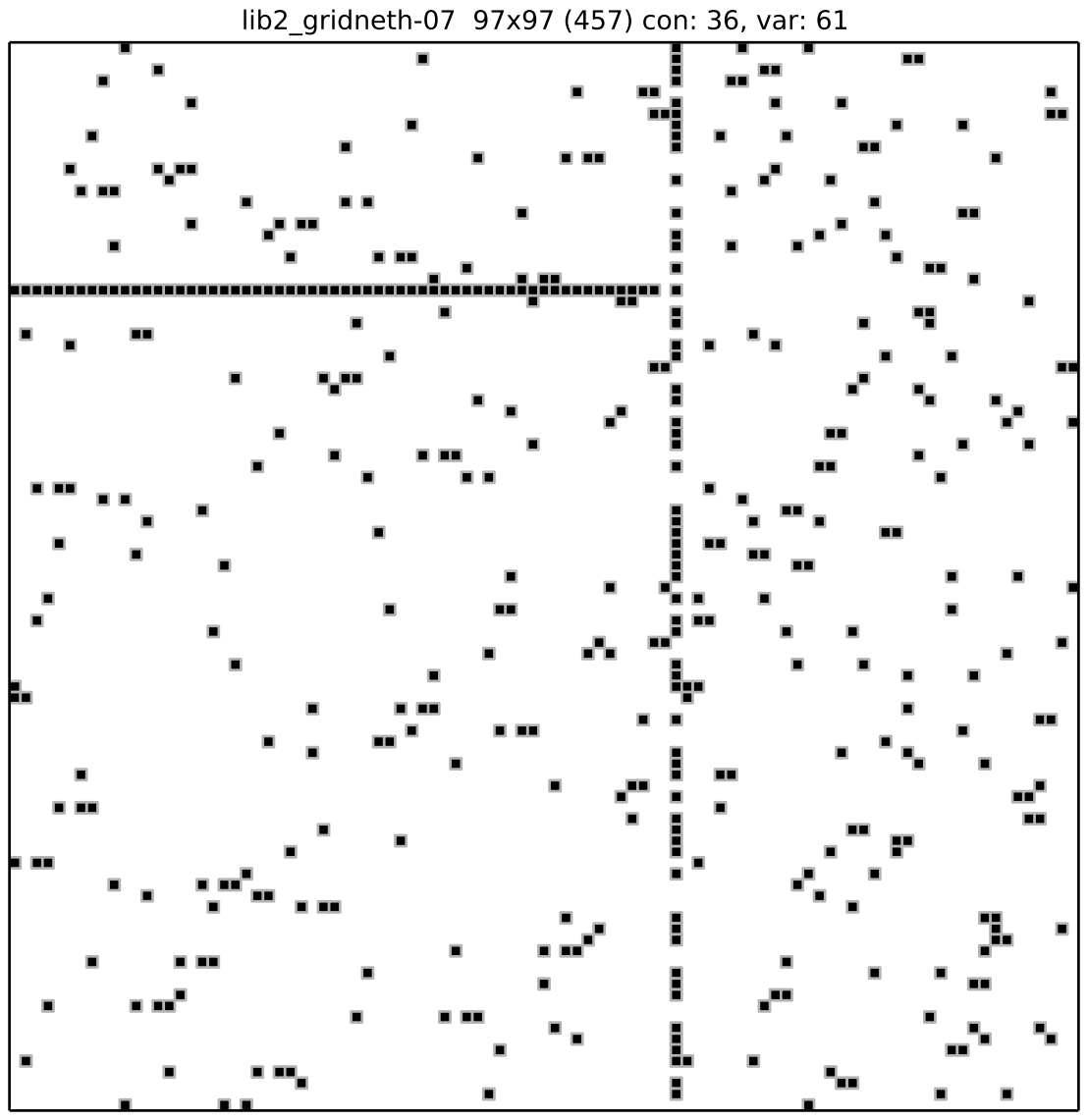
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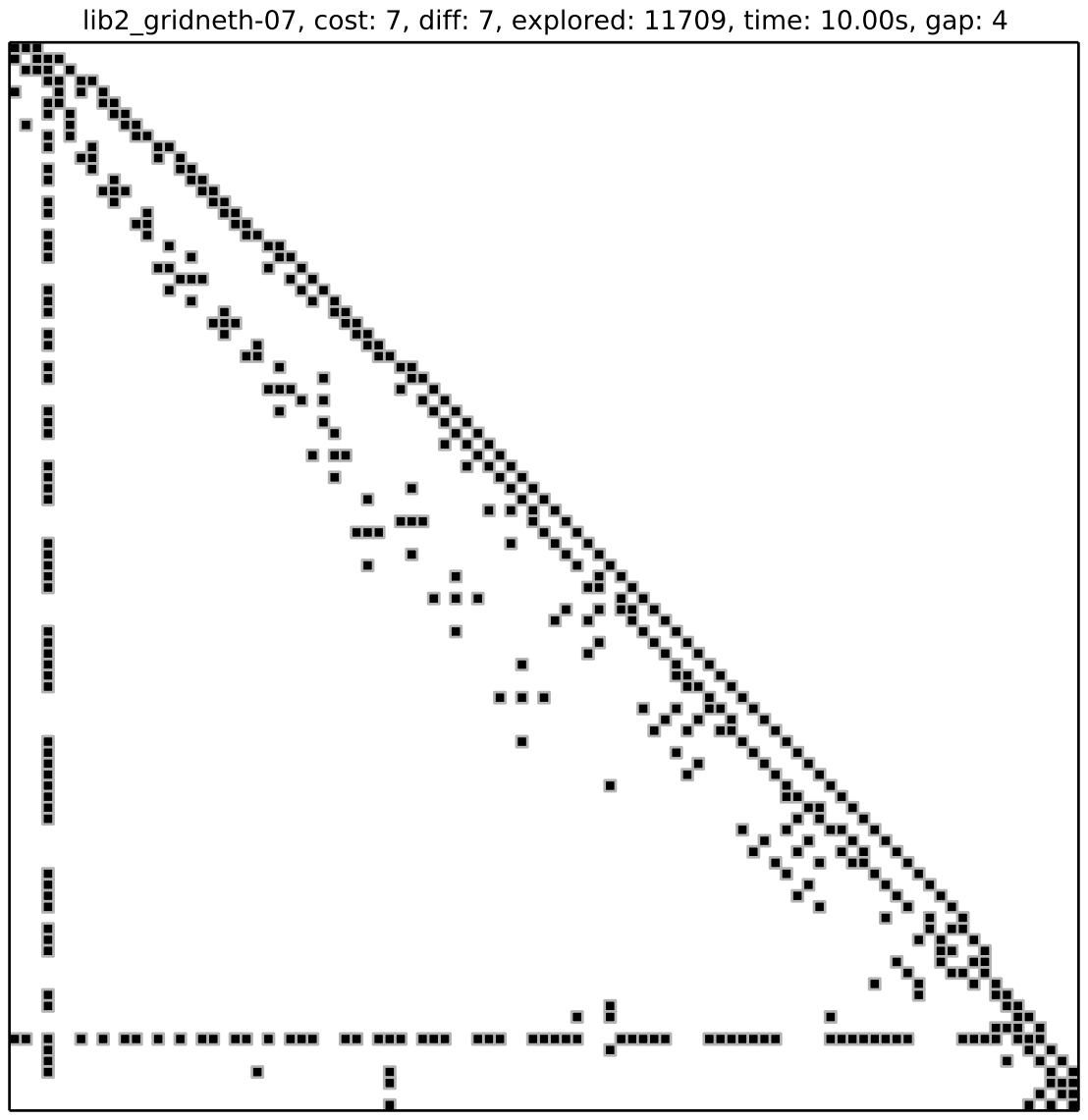
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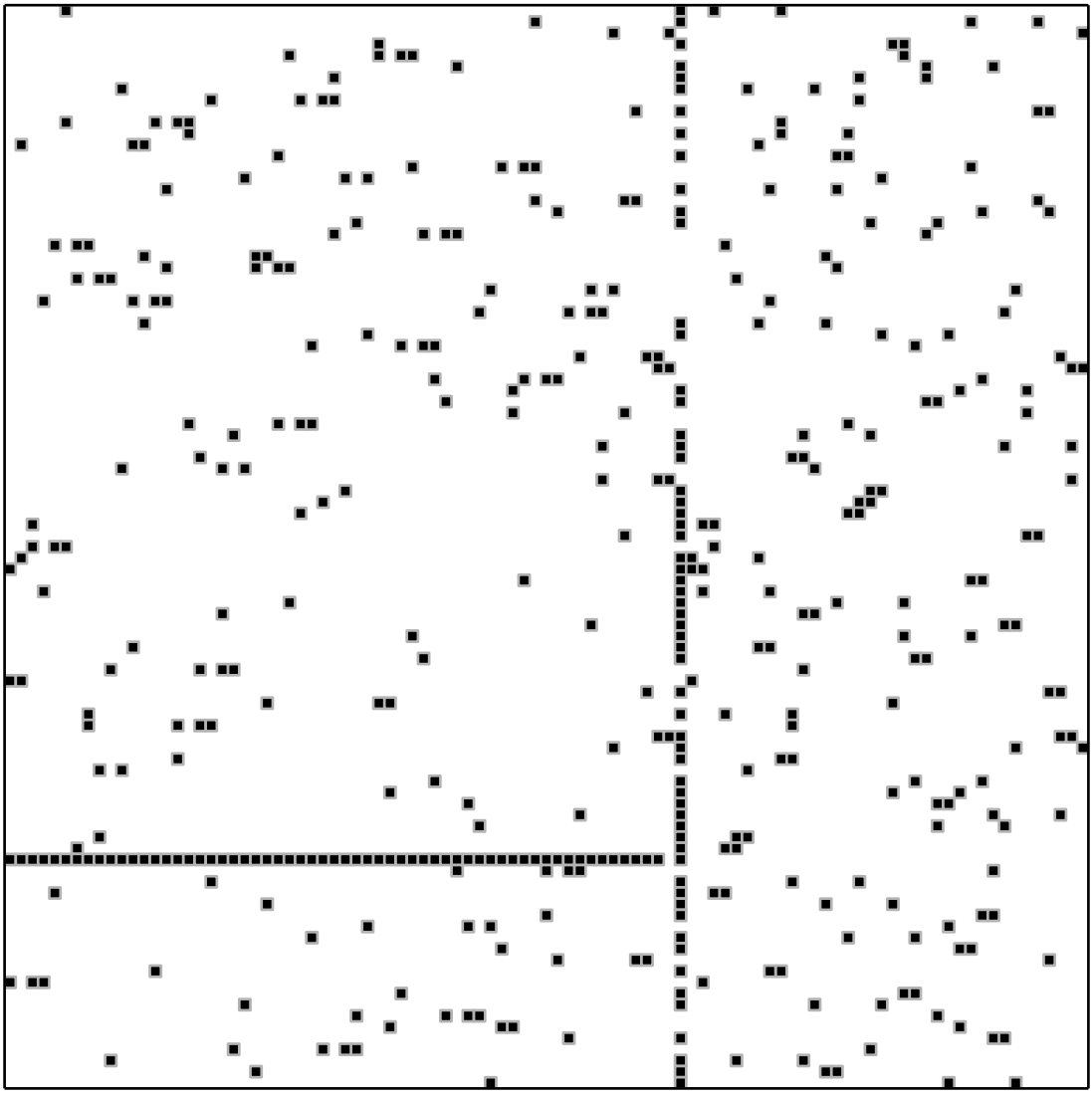
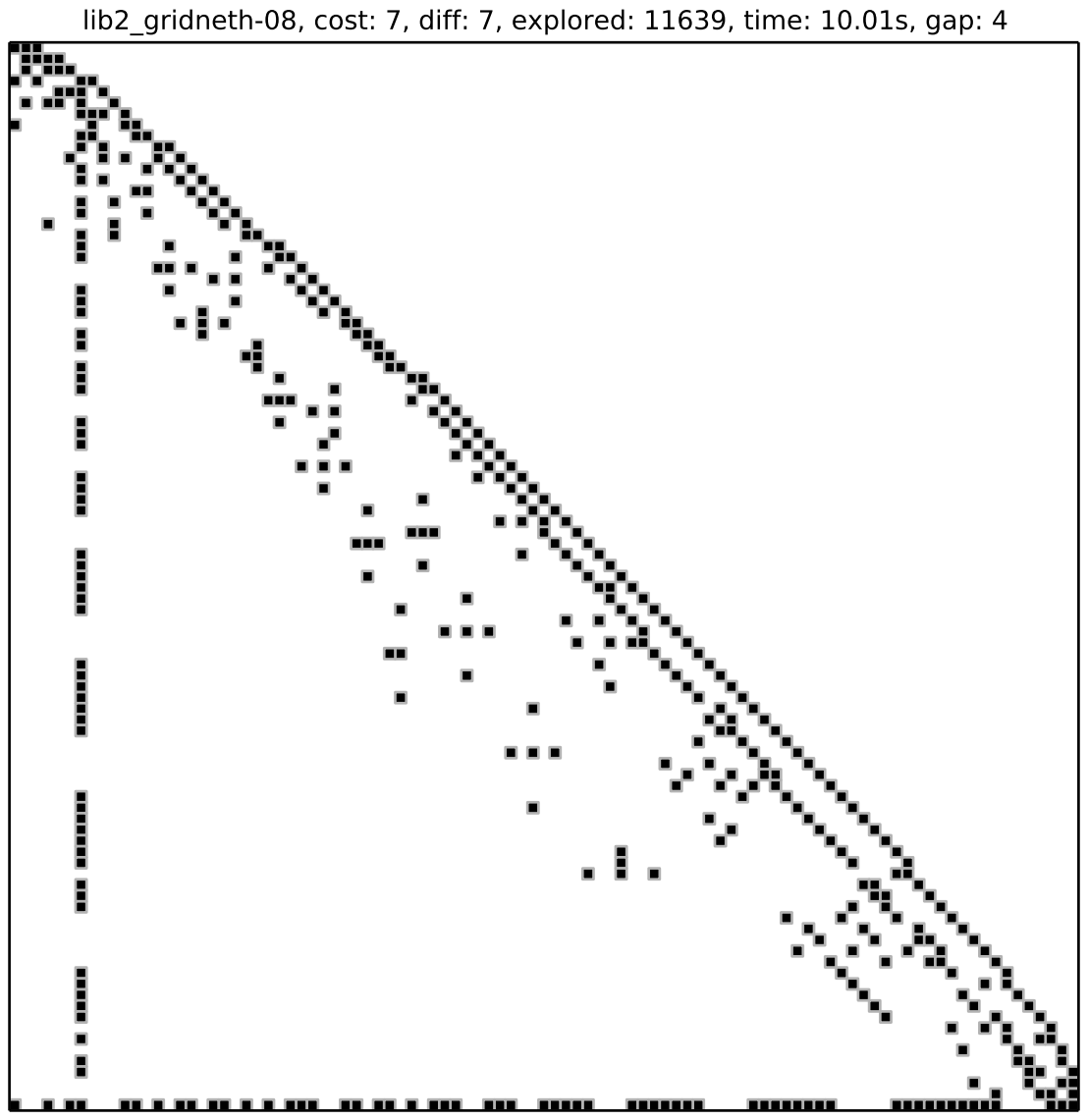
lib2_gridneth-08 97x97 (457) con: 36, var: 61

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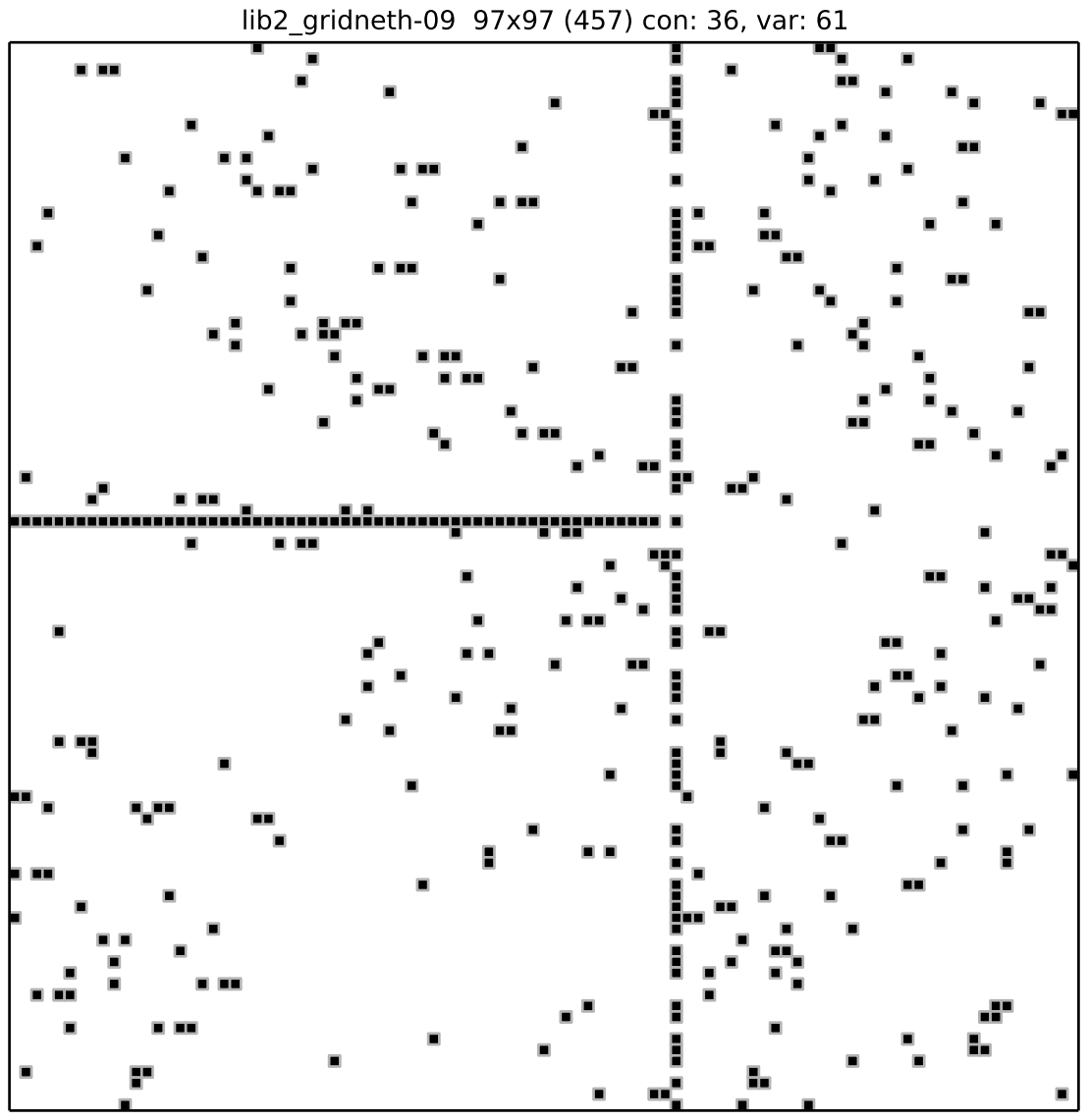
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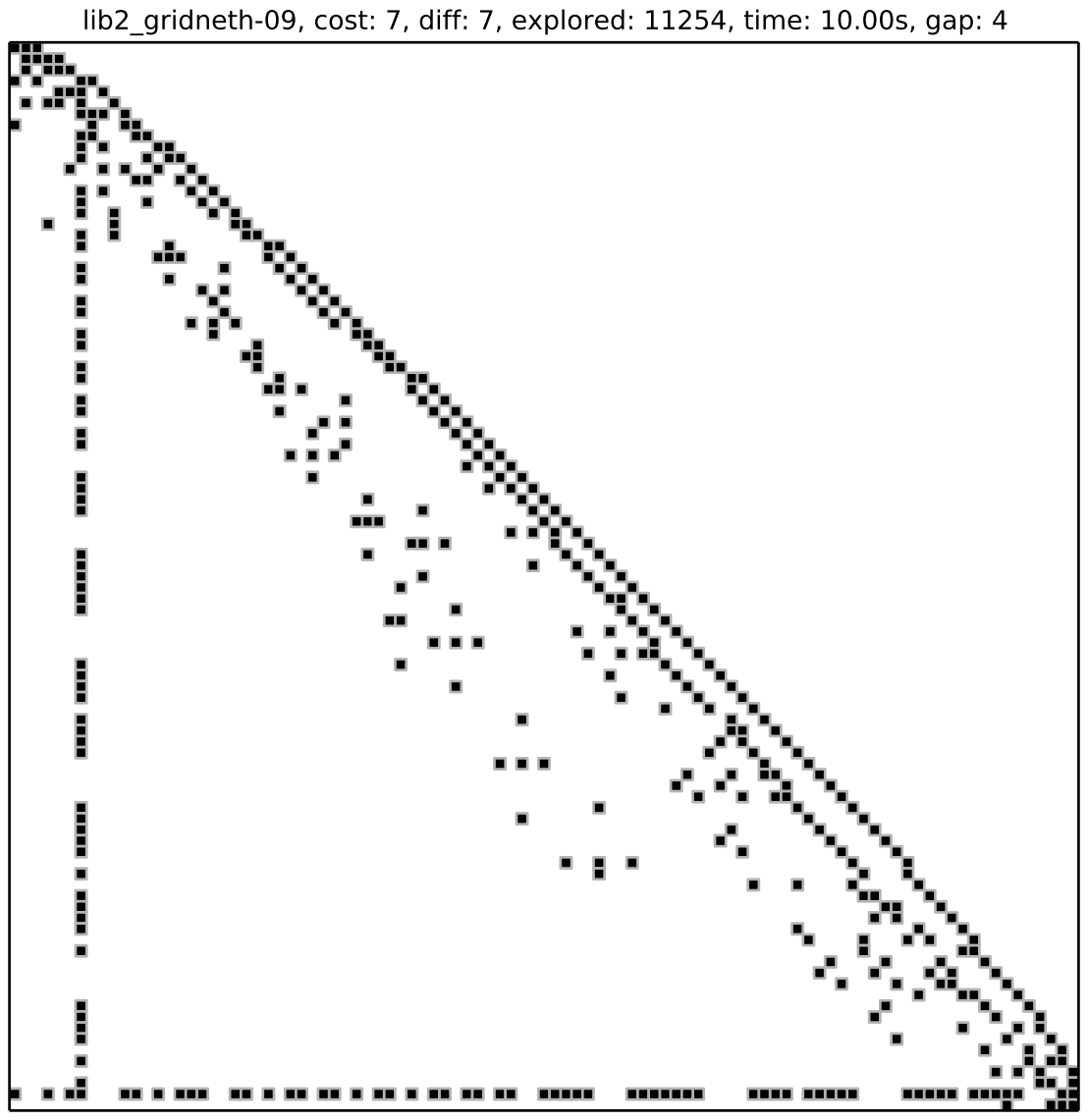
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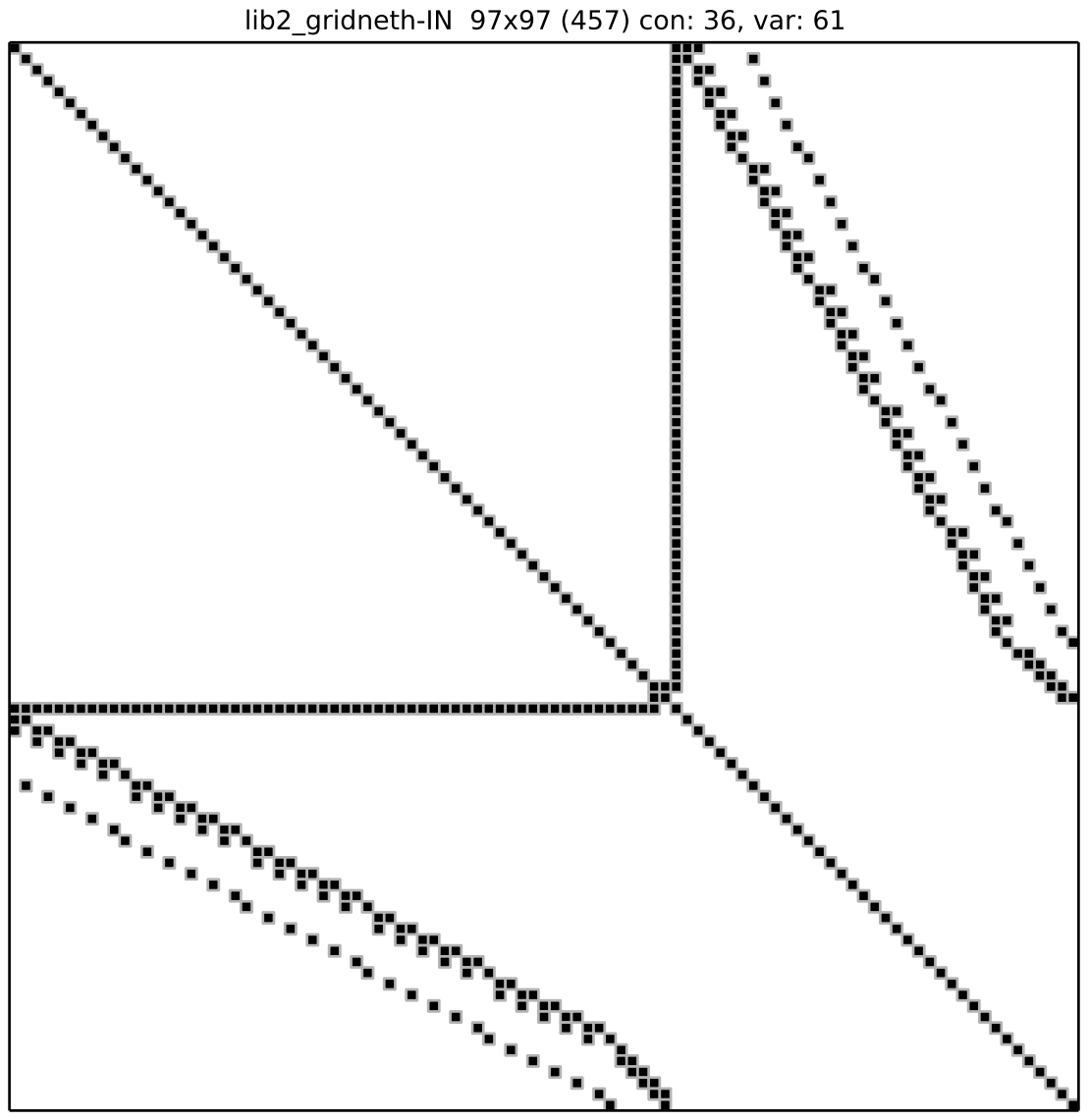
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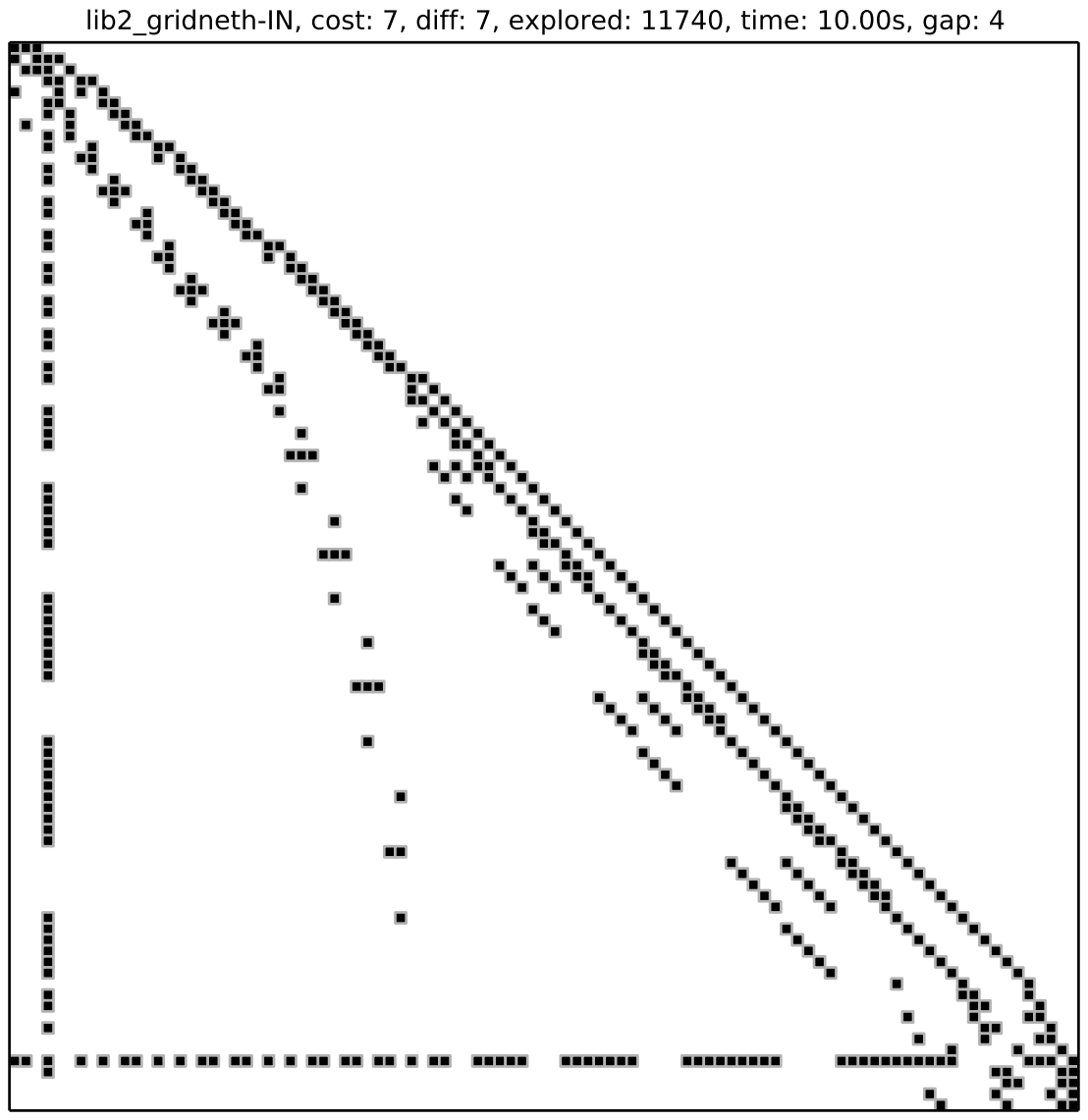
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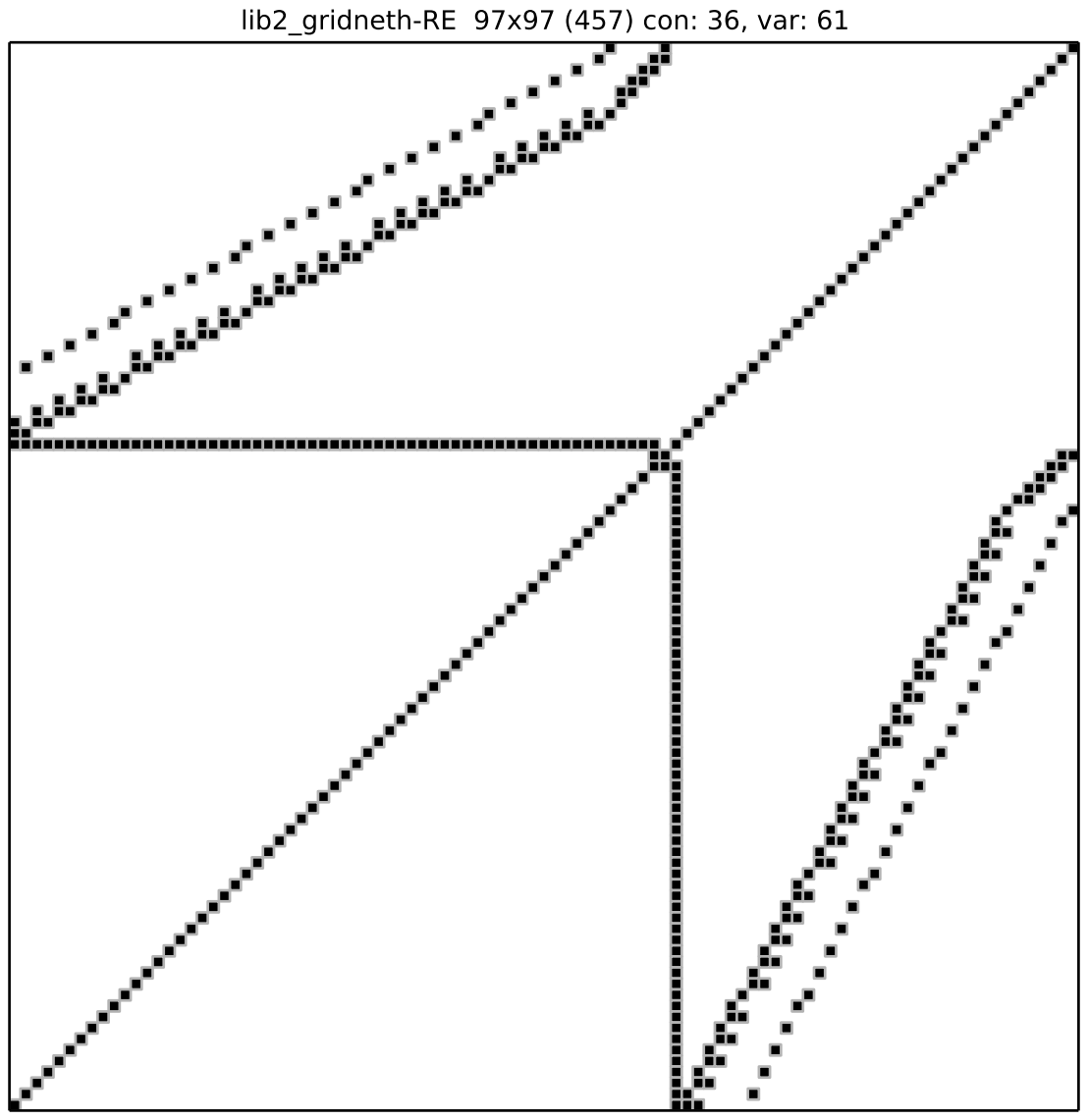
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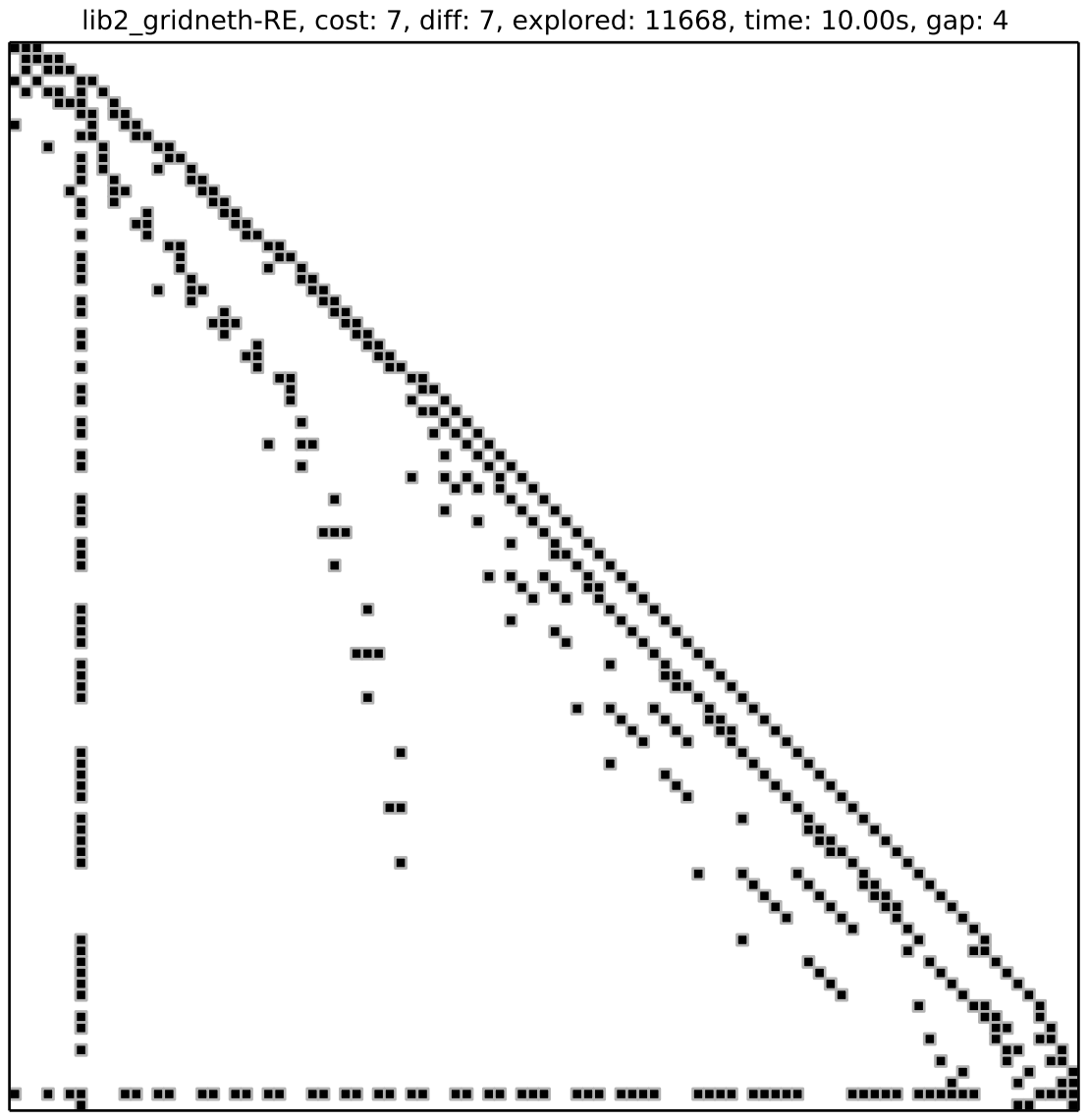
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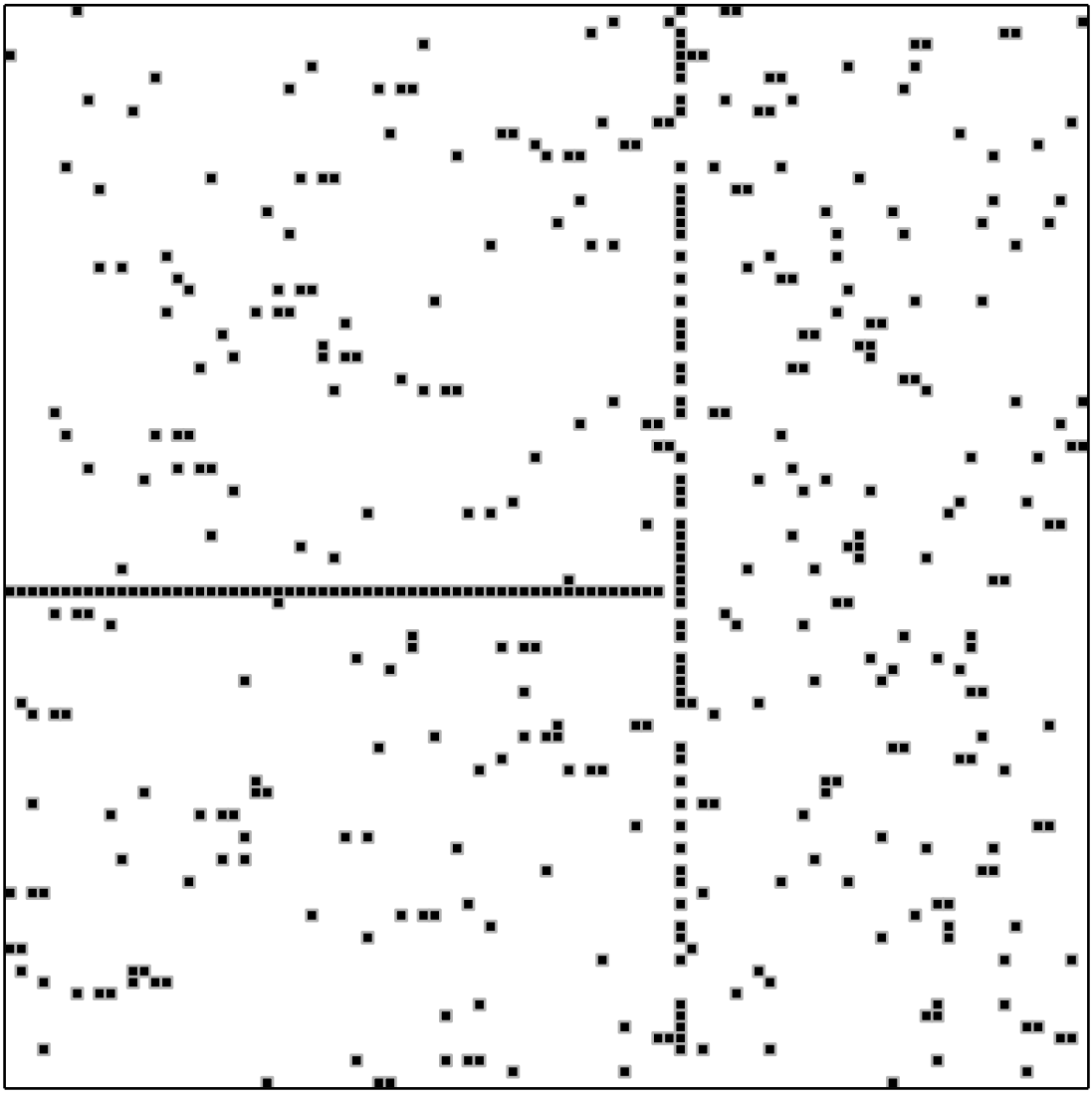

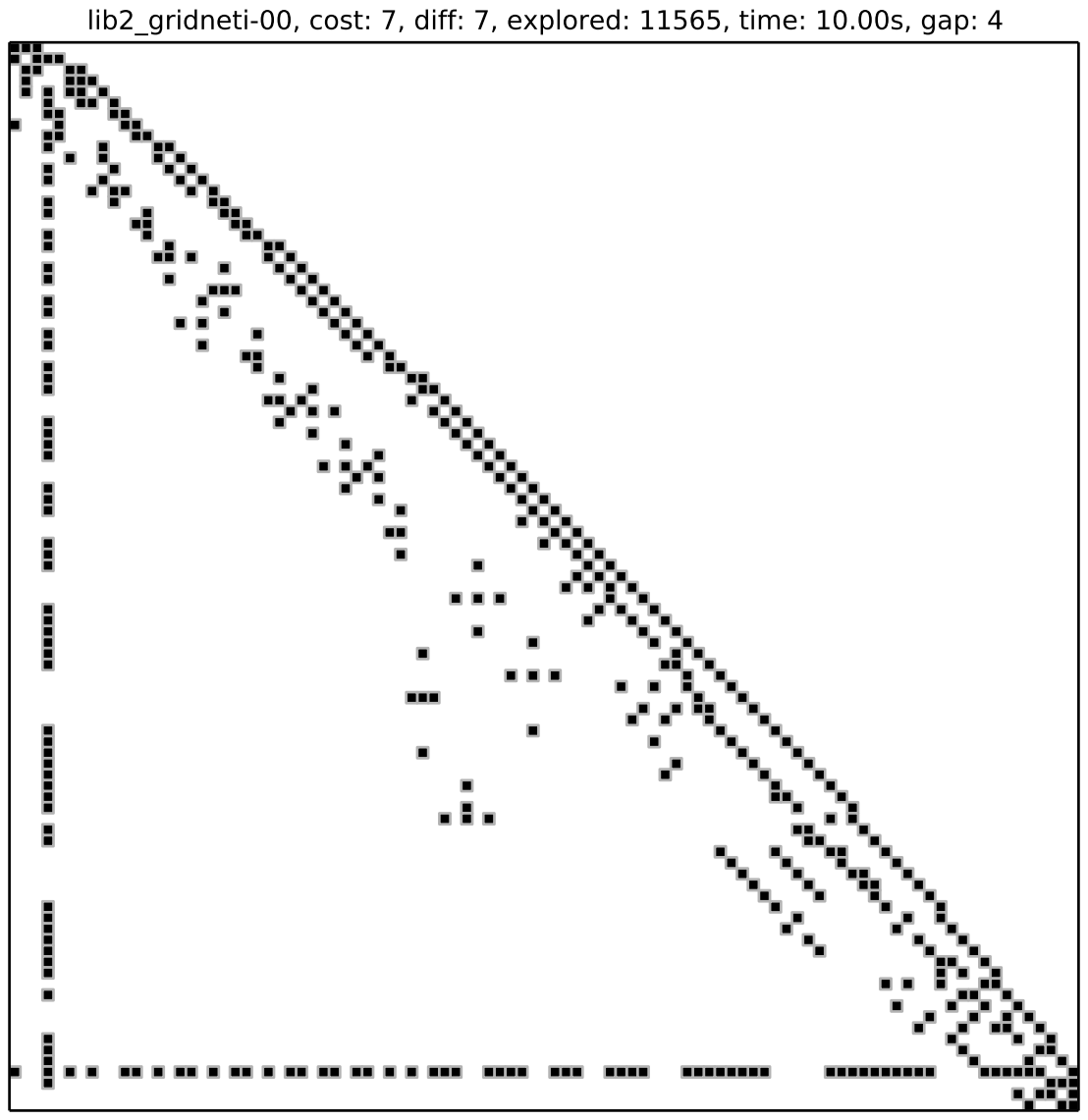
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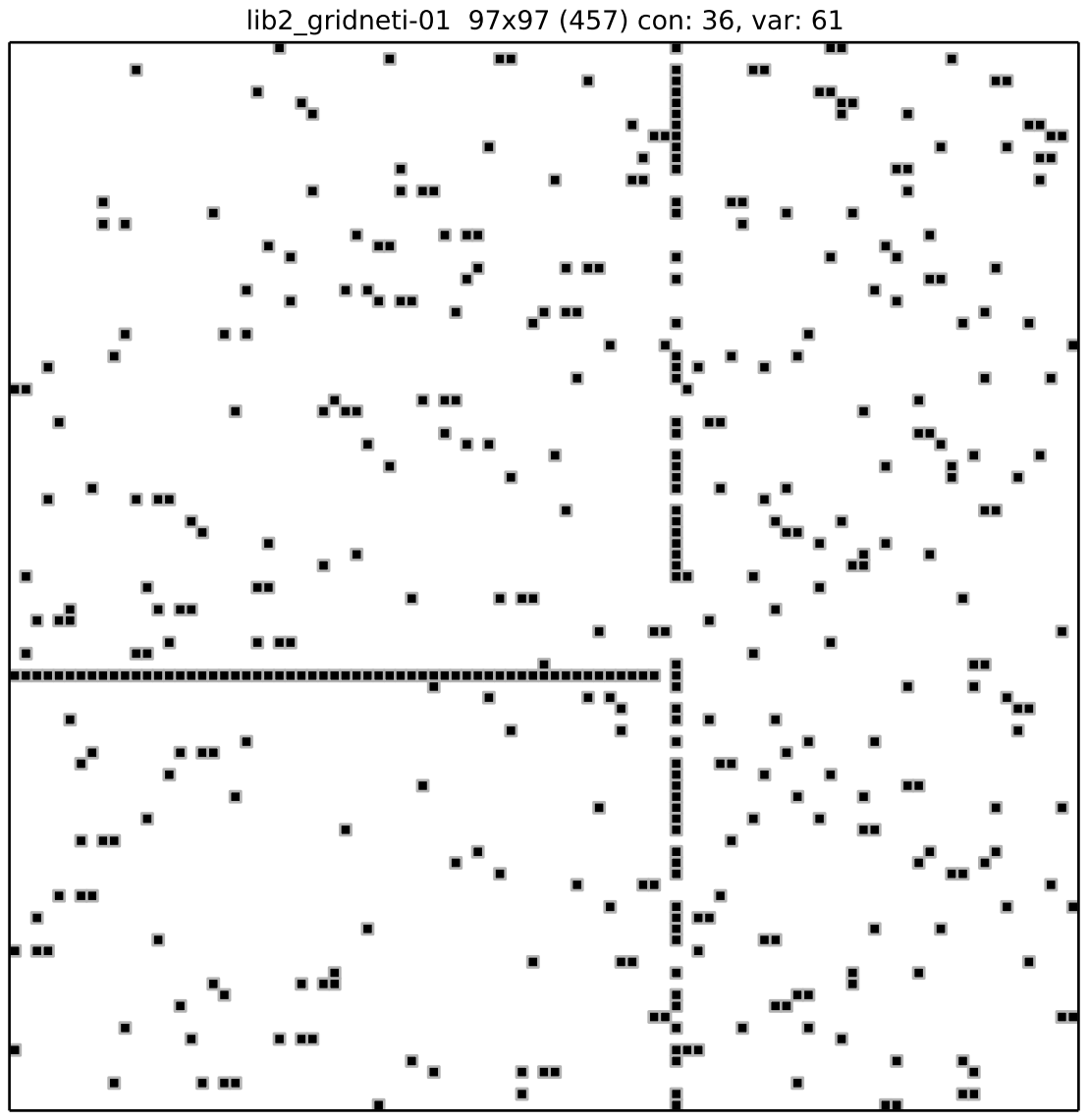
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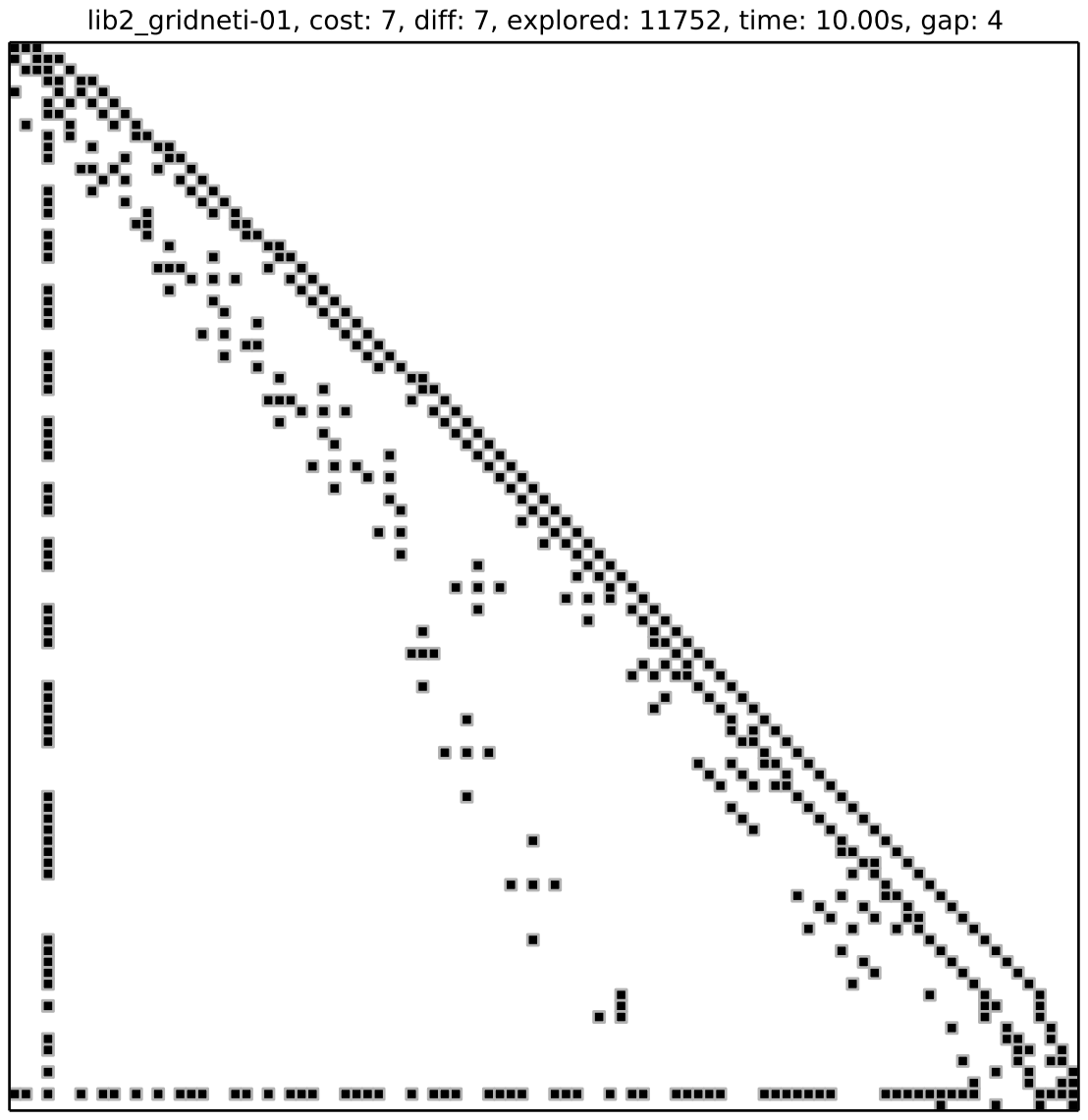
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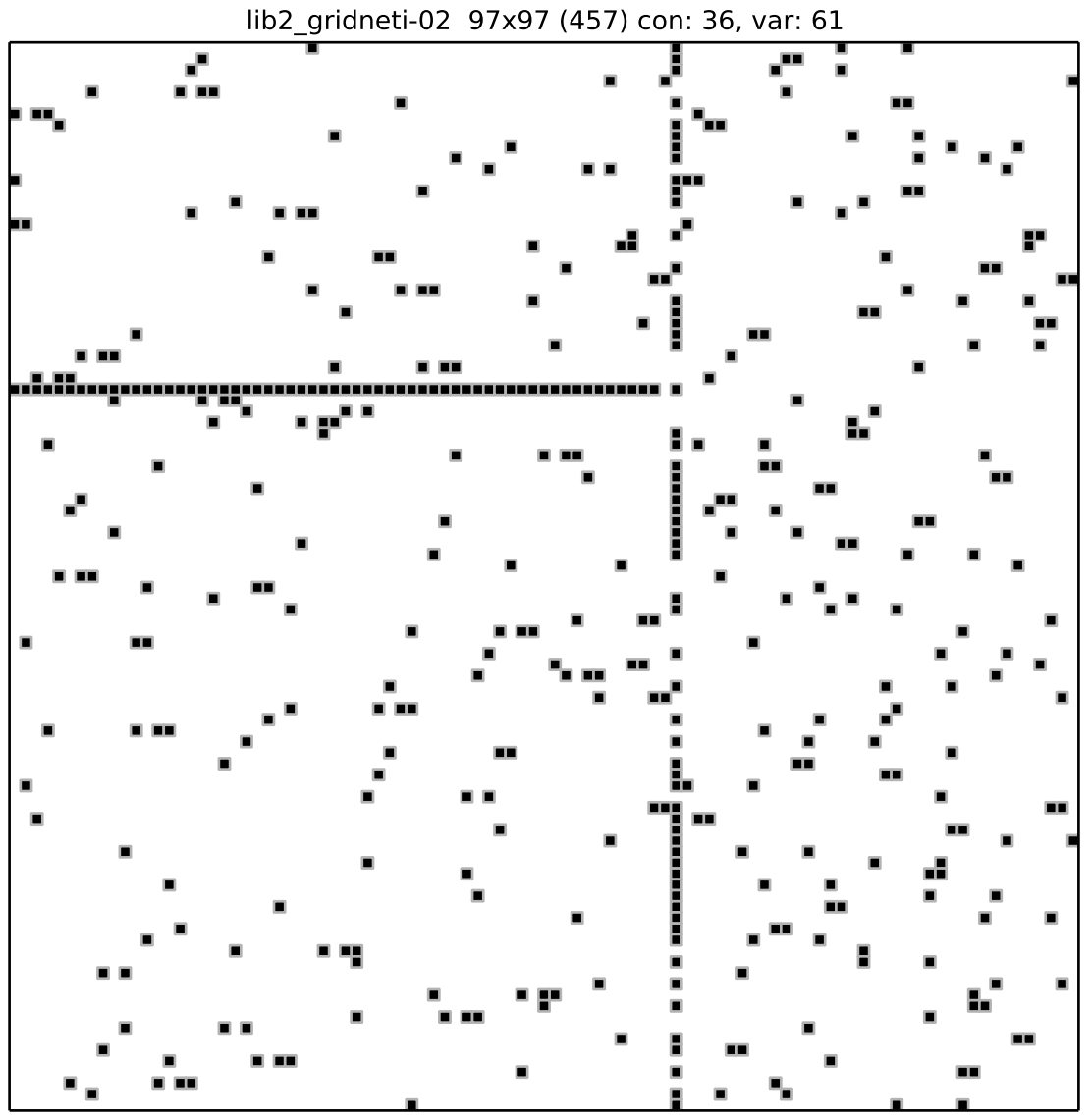
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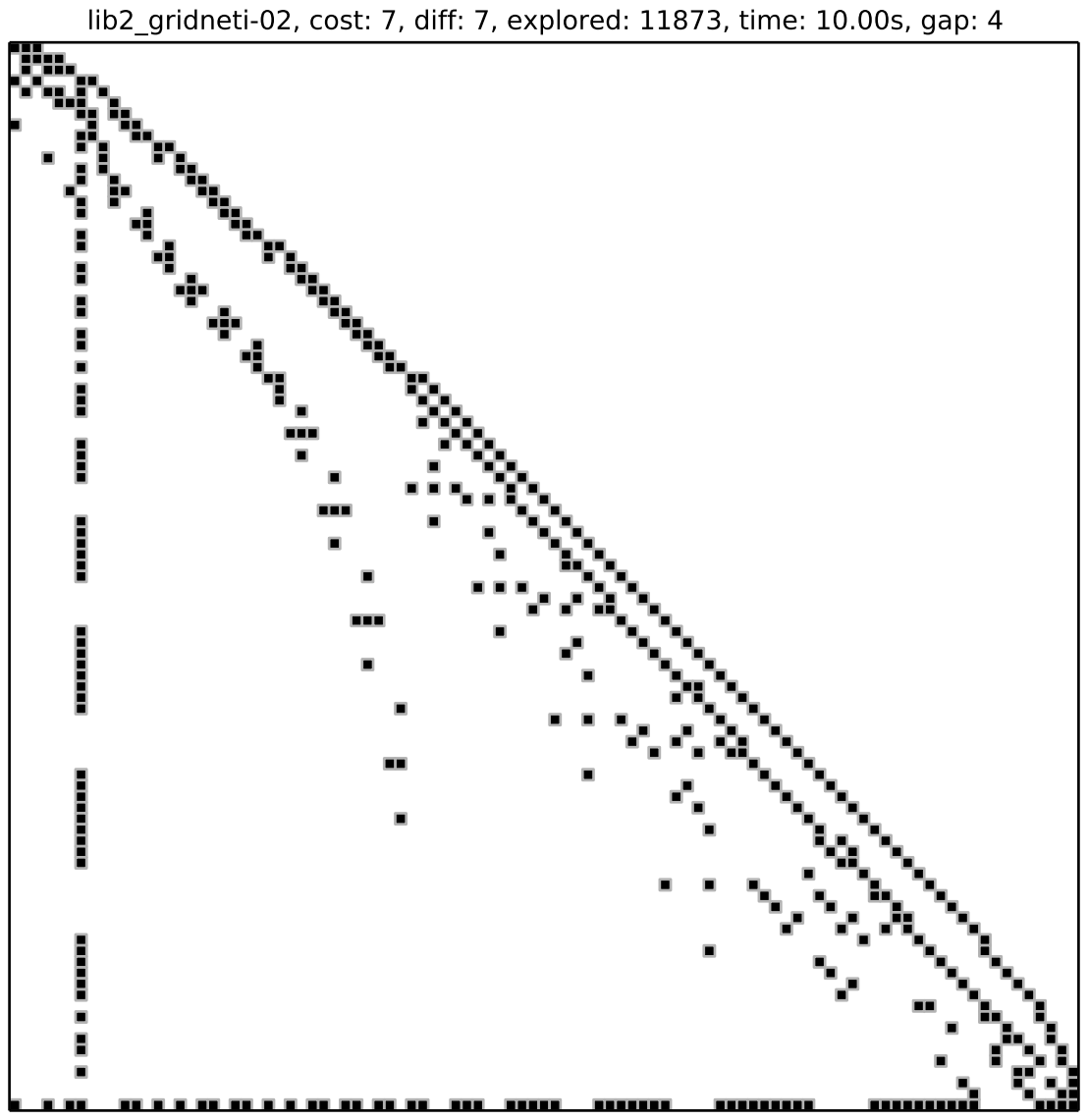
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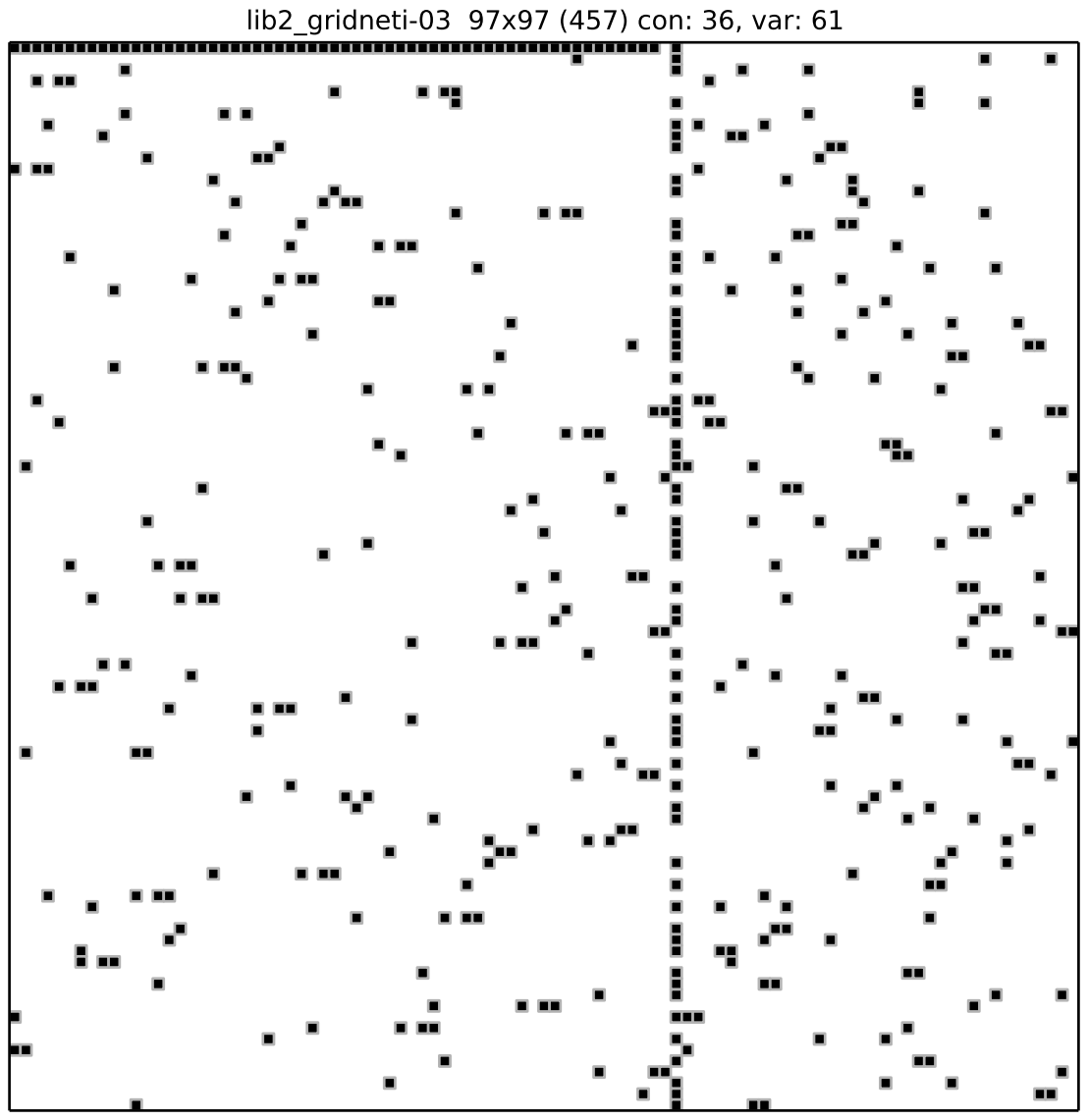
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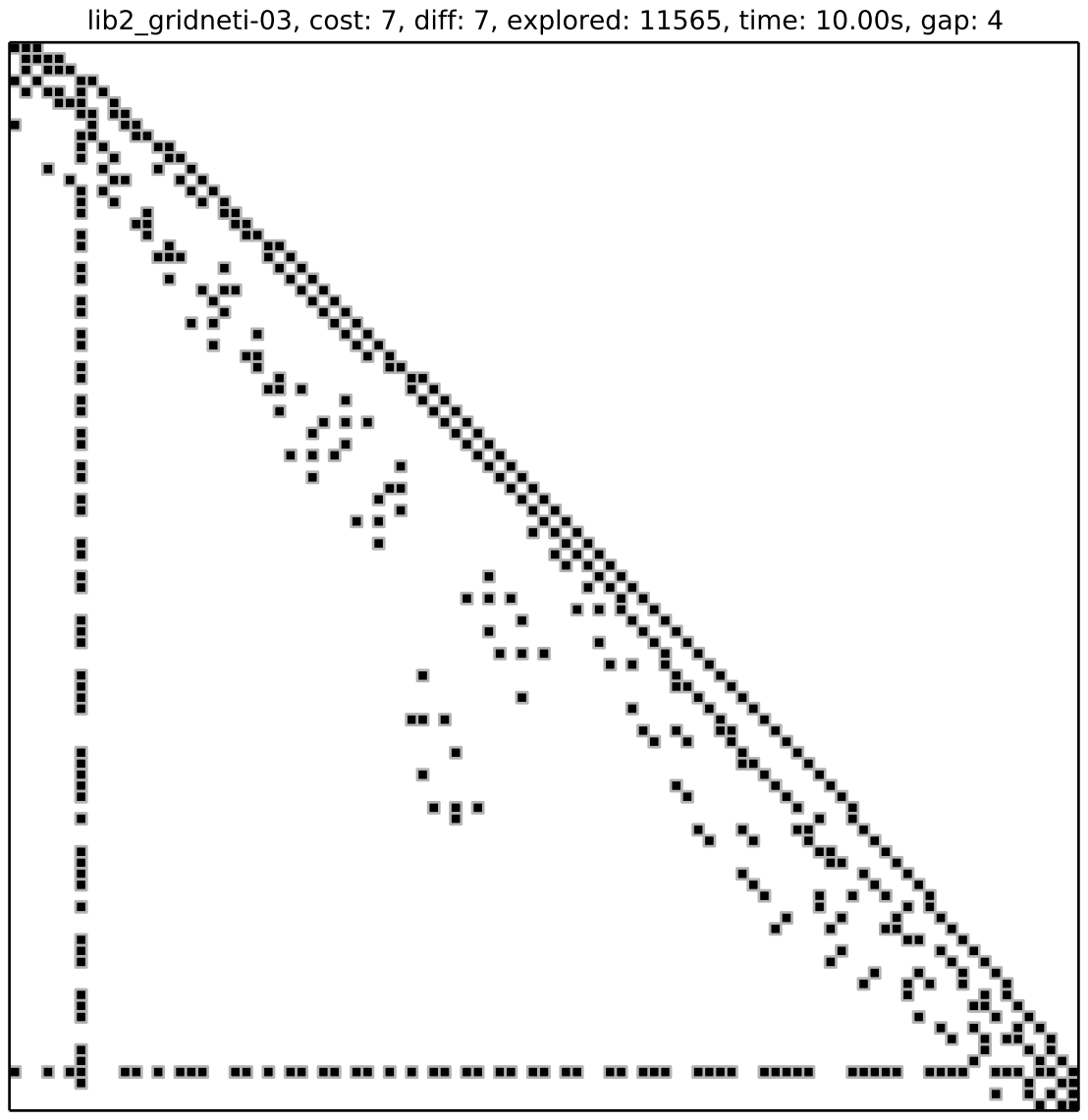
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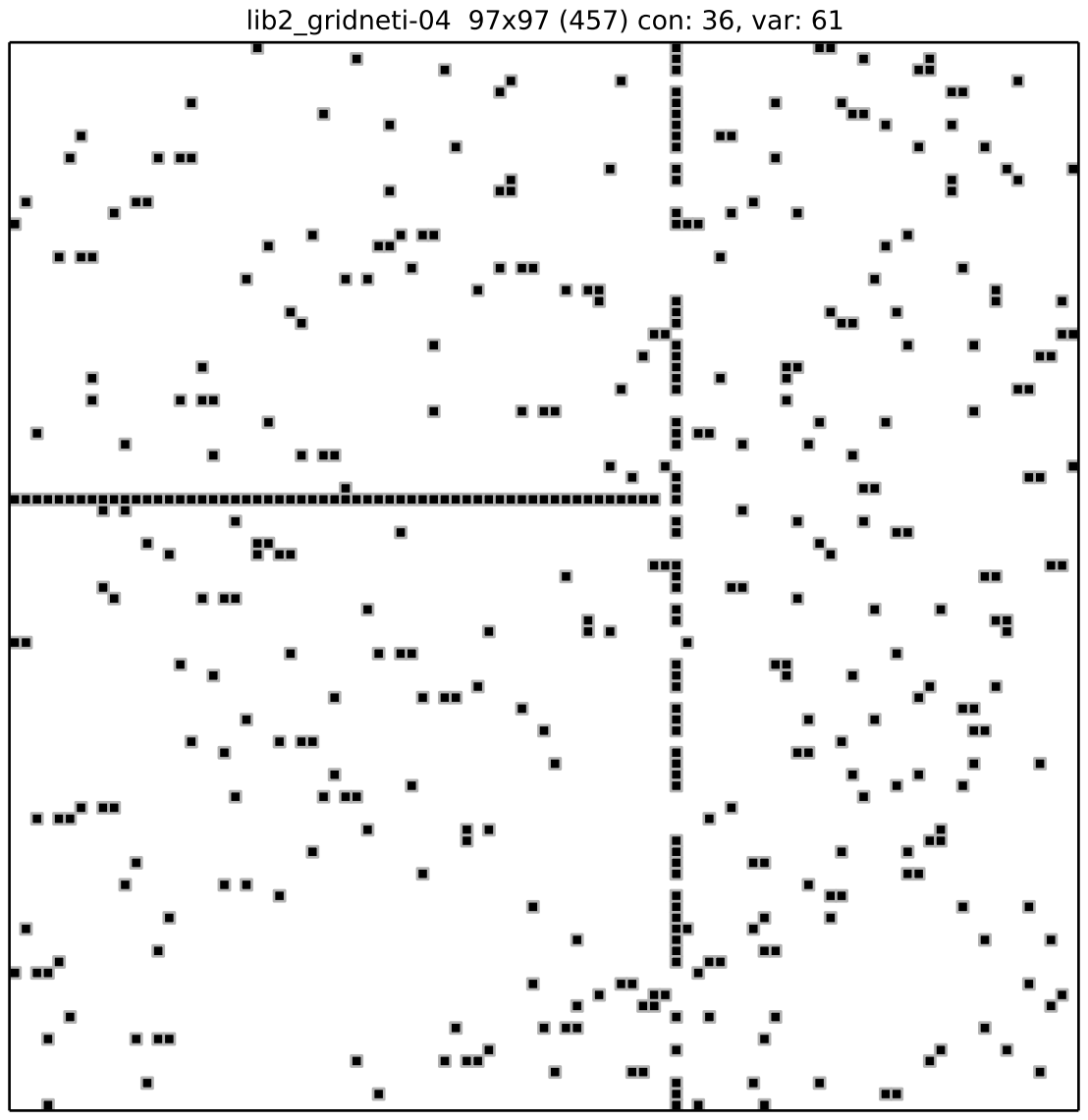
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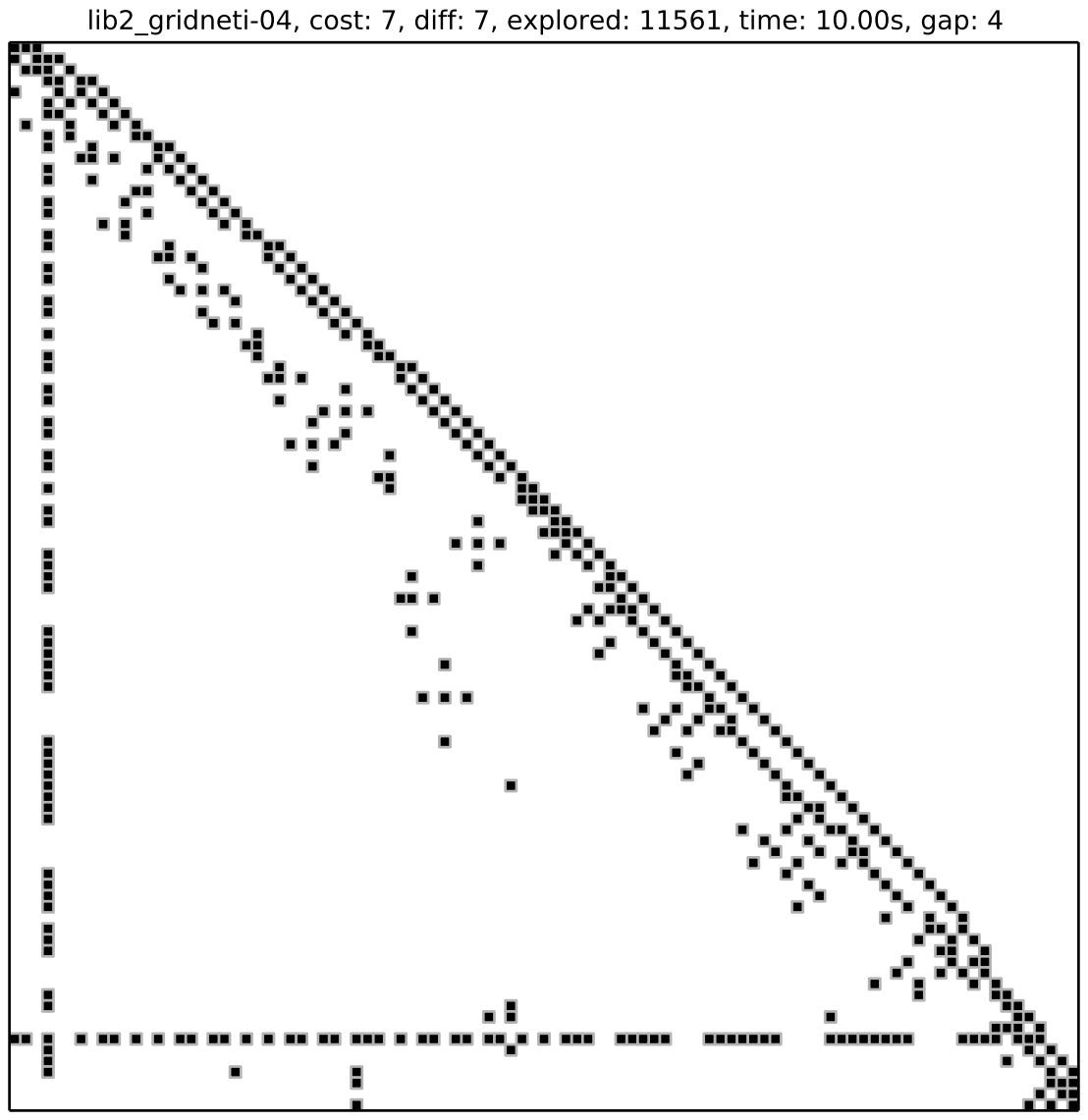
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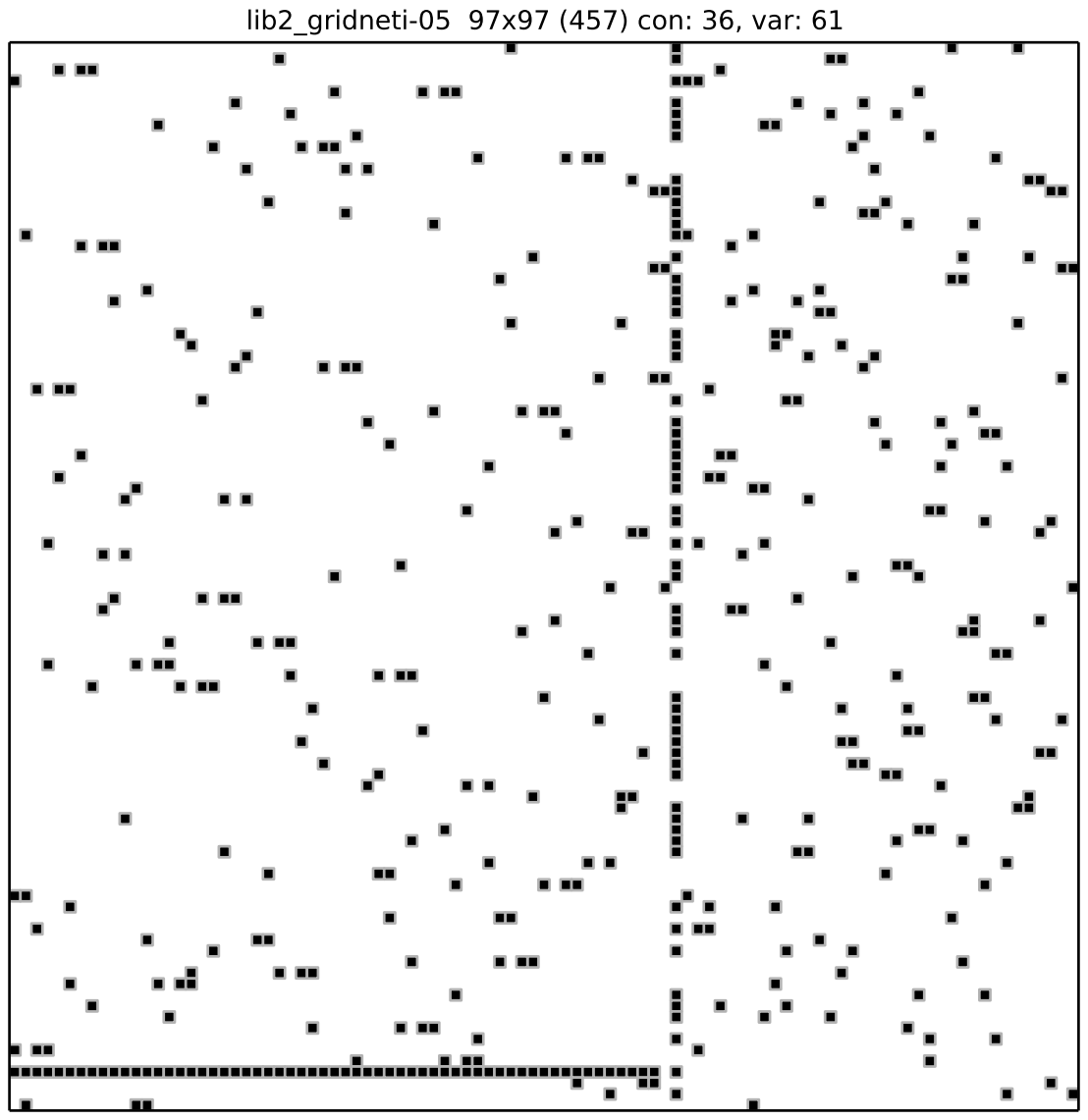
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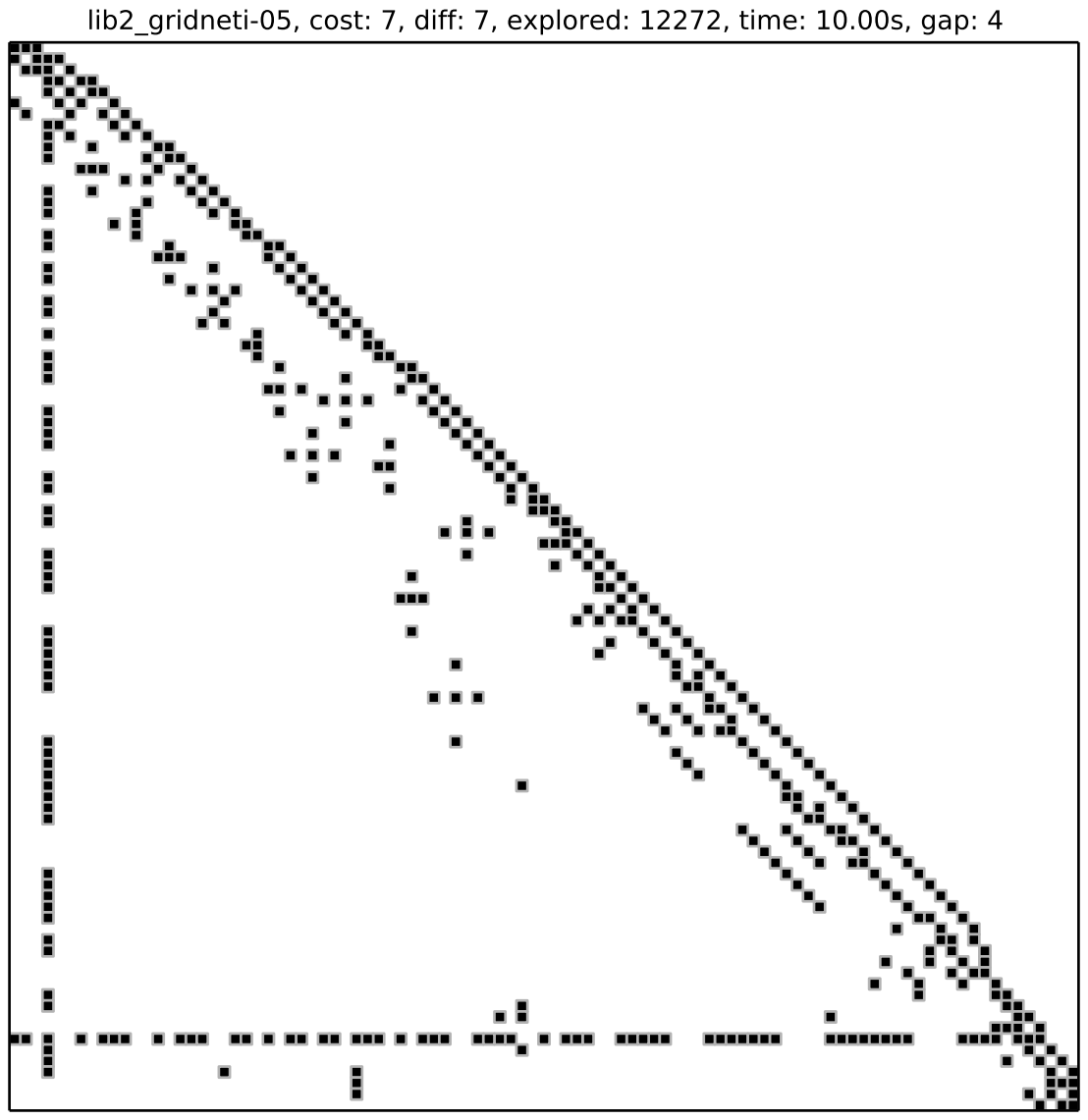
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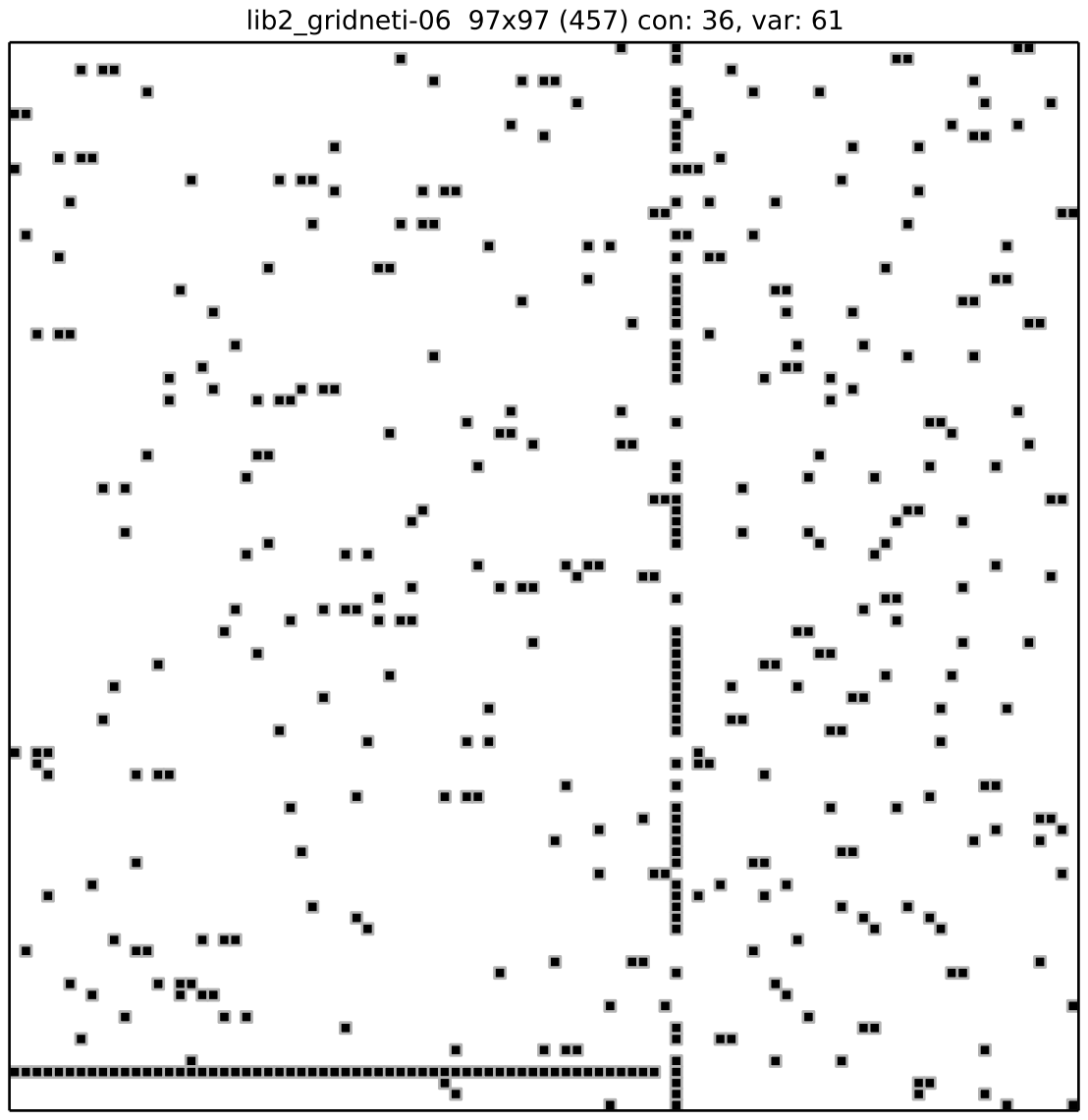
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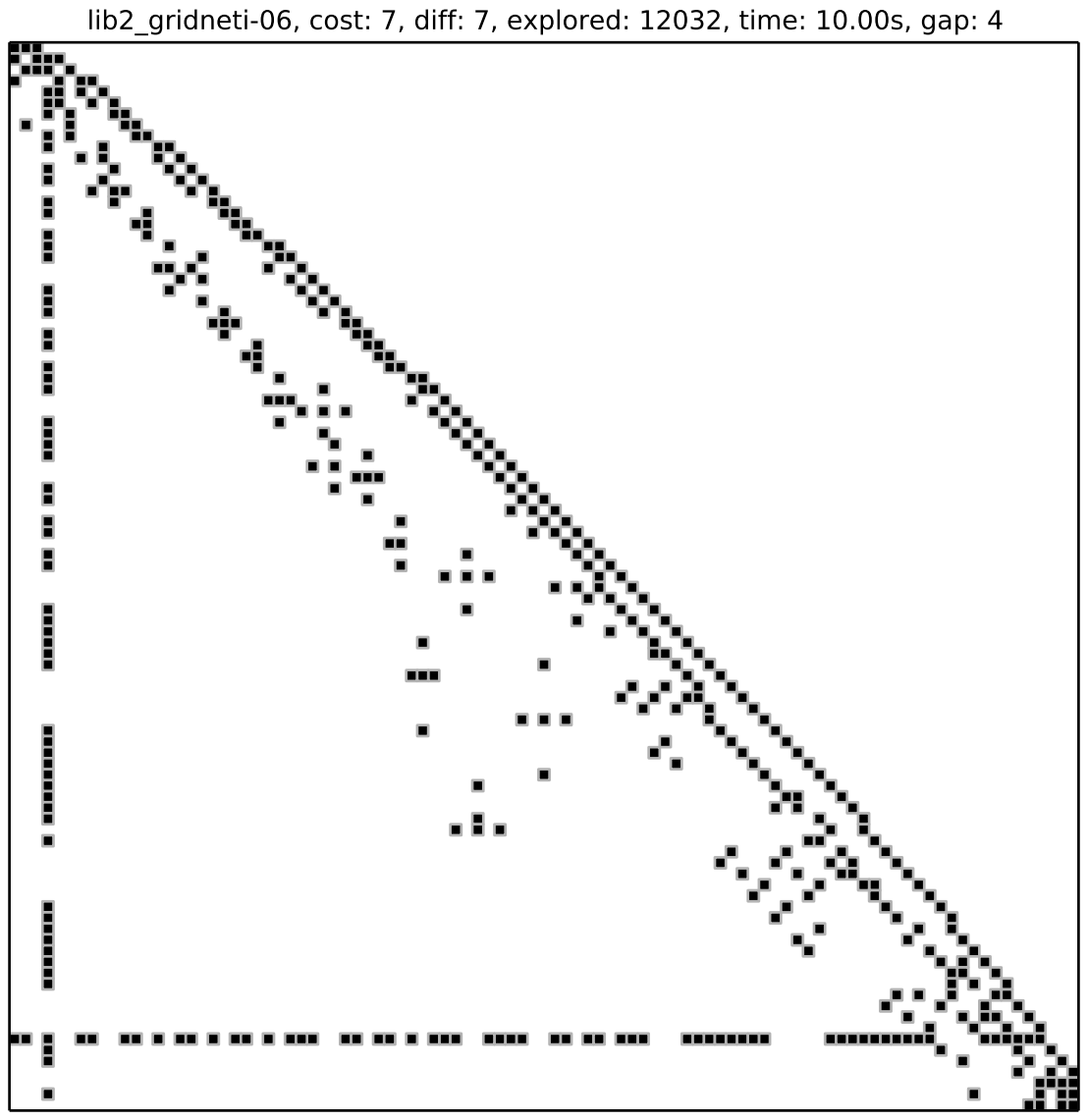
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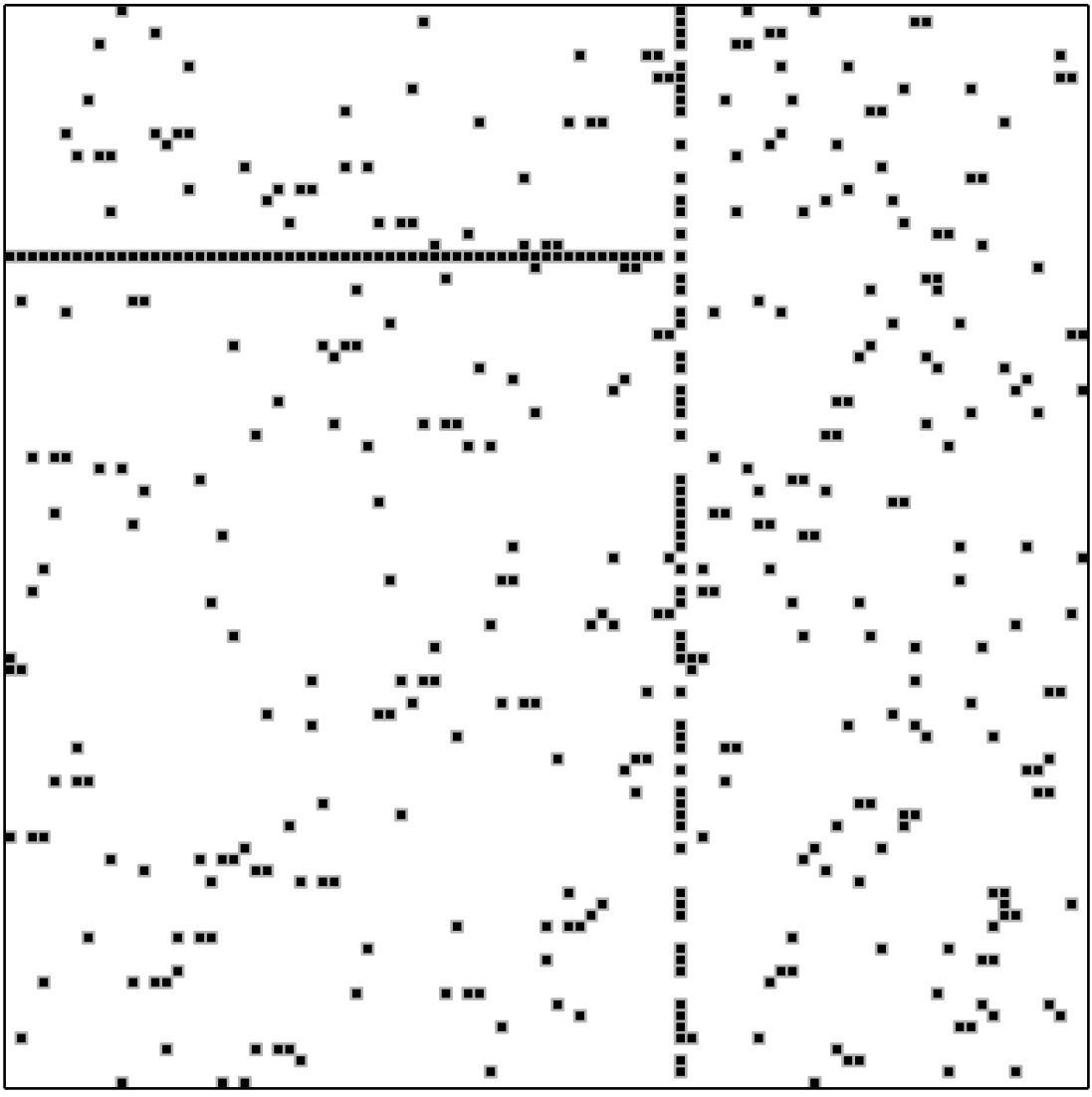
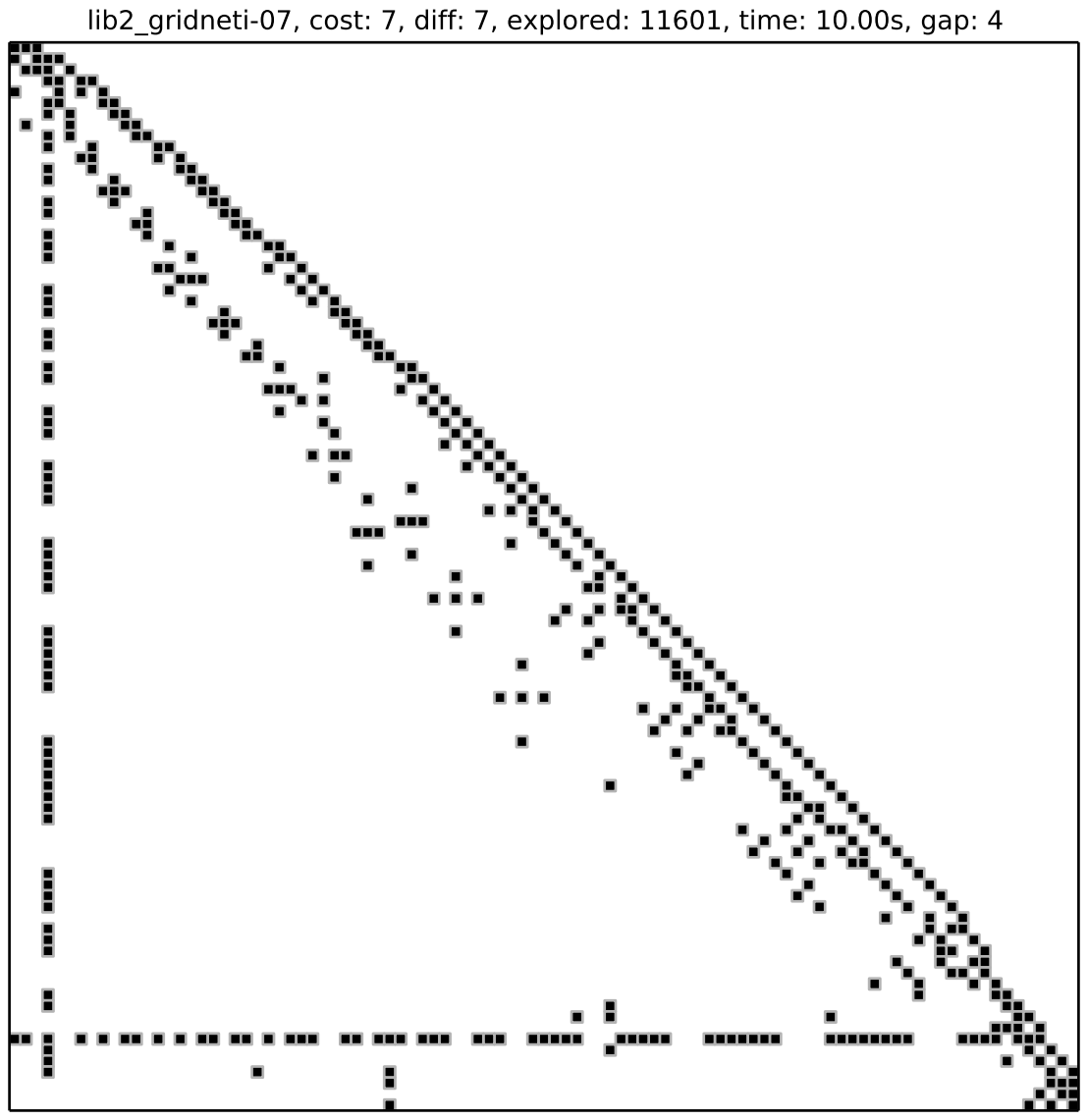
lib2_gridneti-07 97x97 (457) con: 36, var: 61

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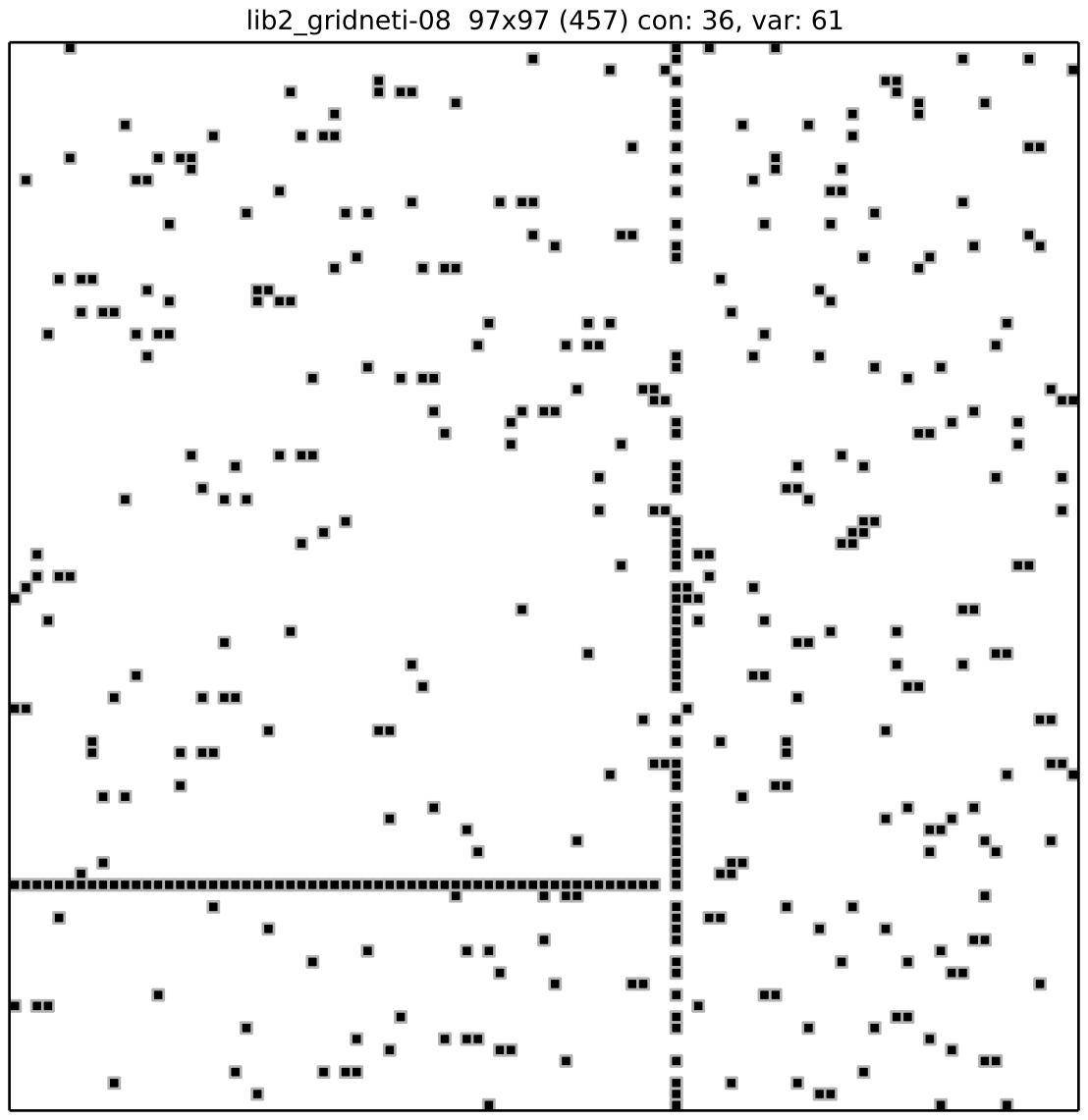
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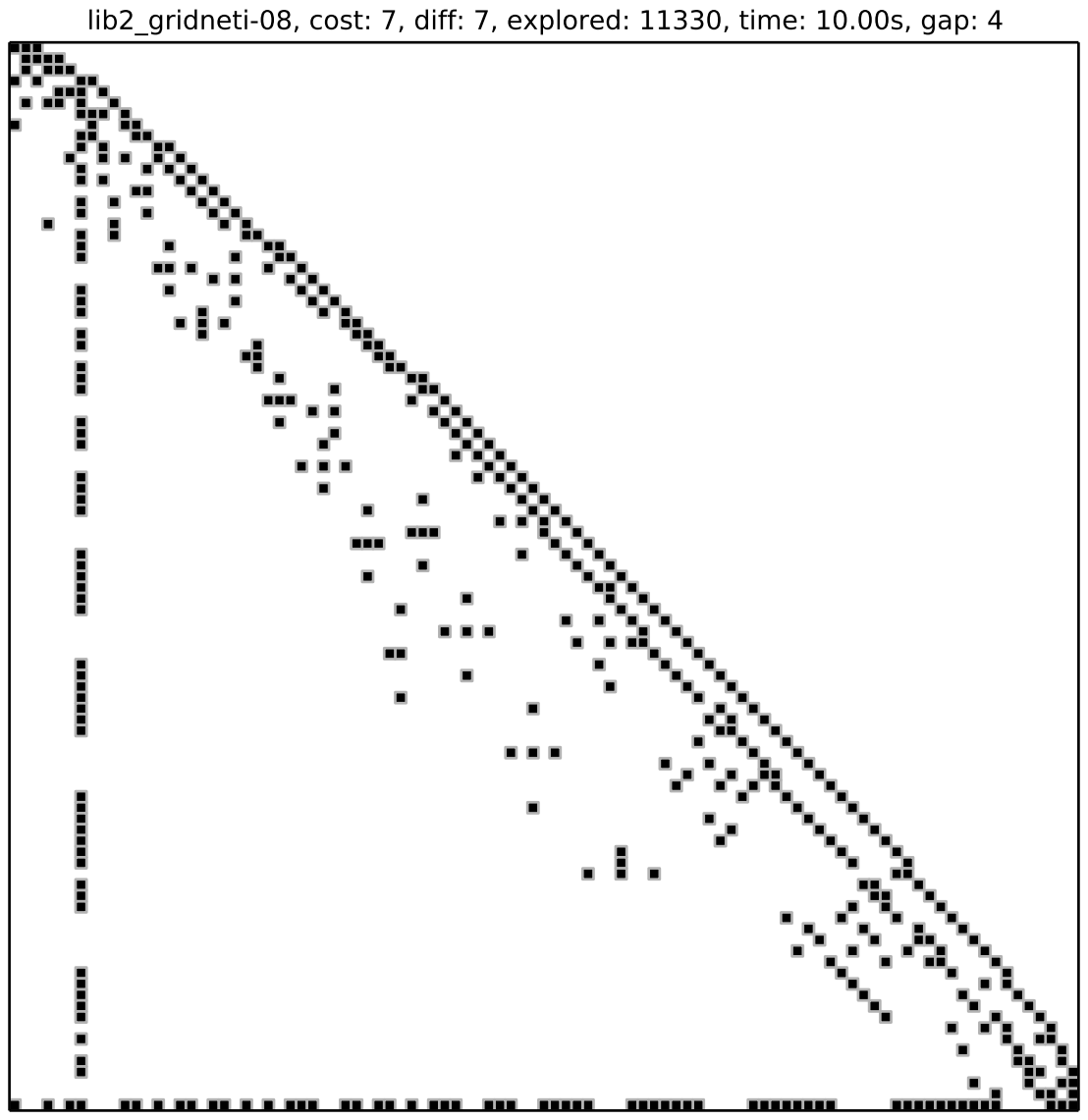
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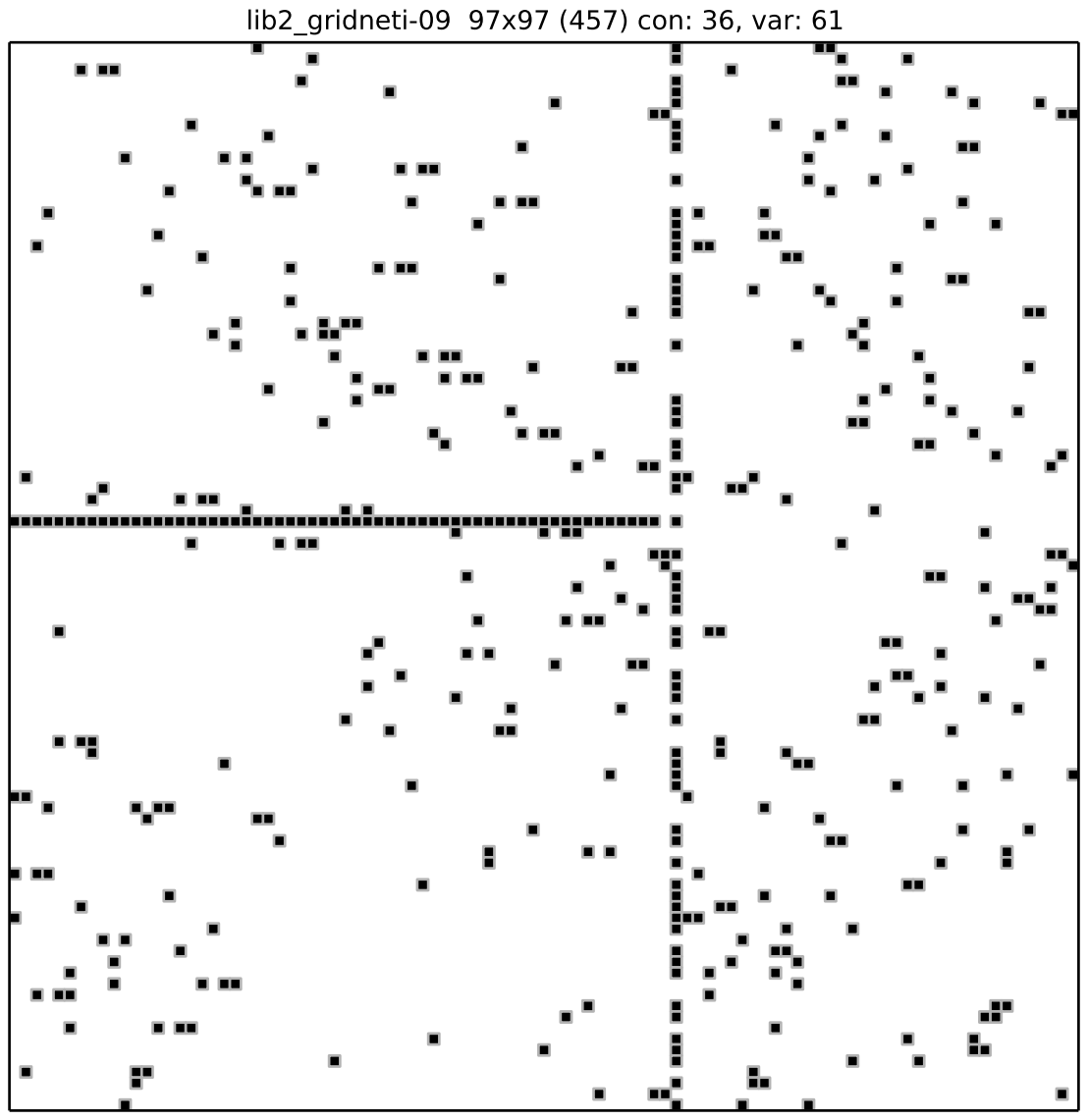
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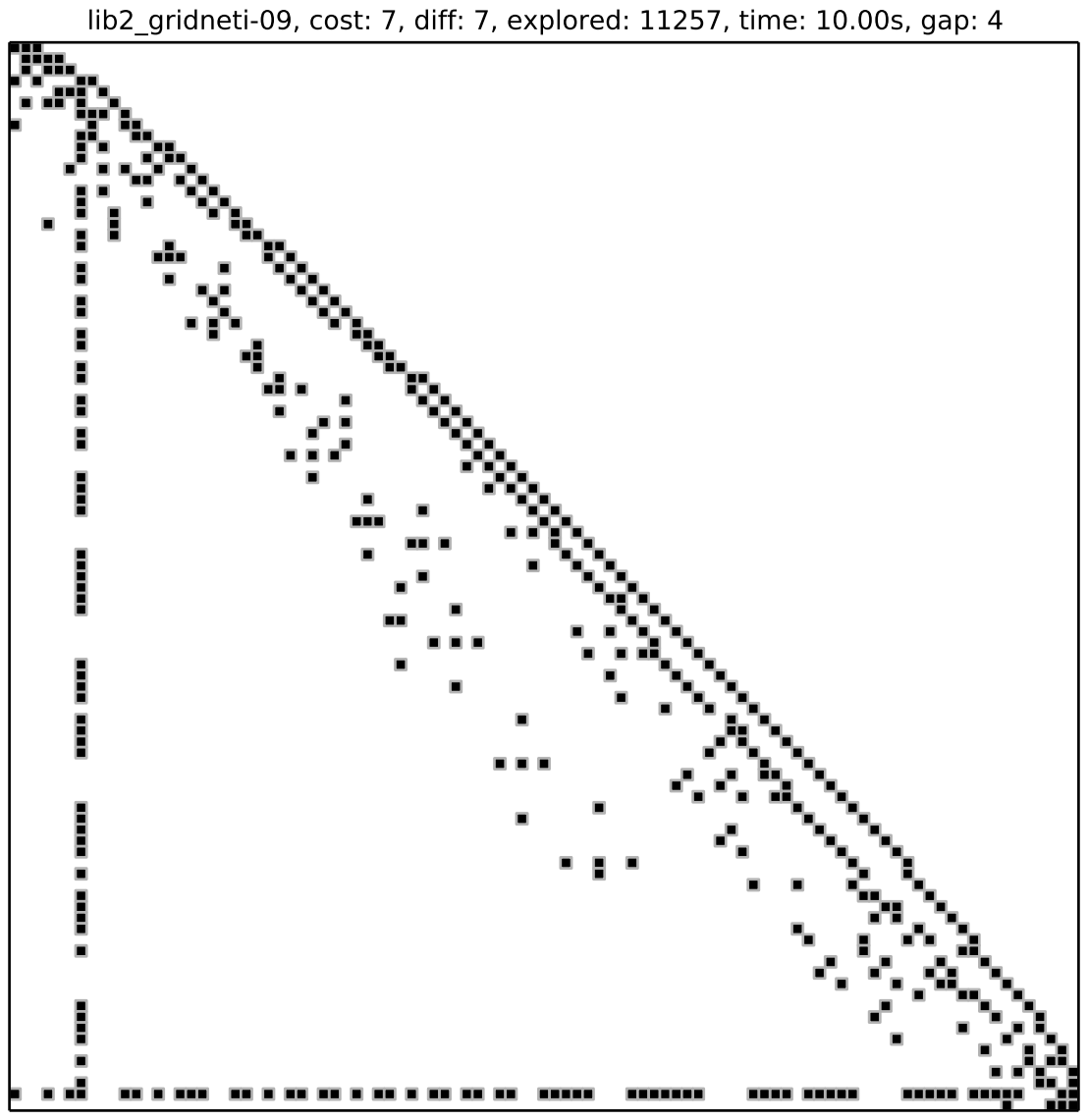
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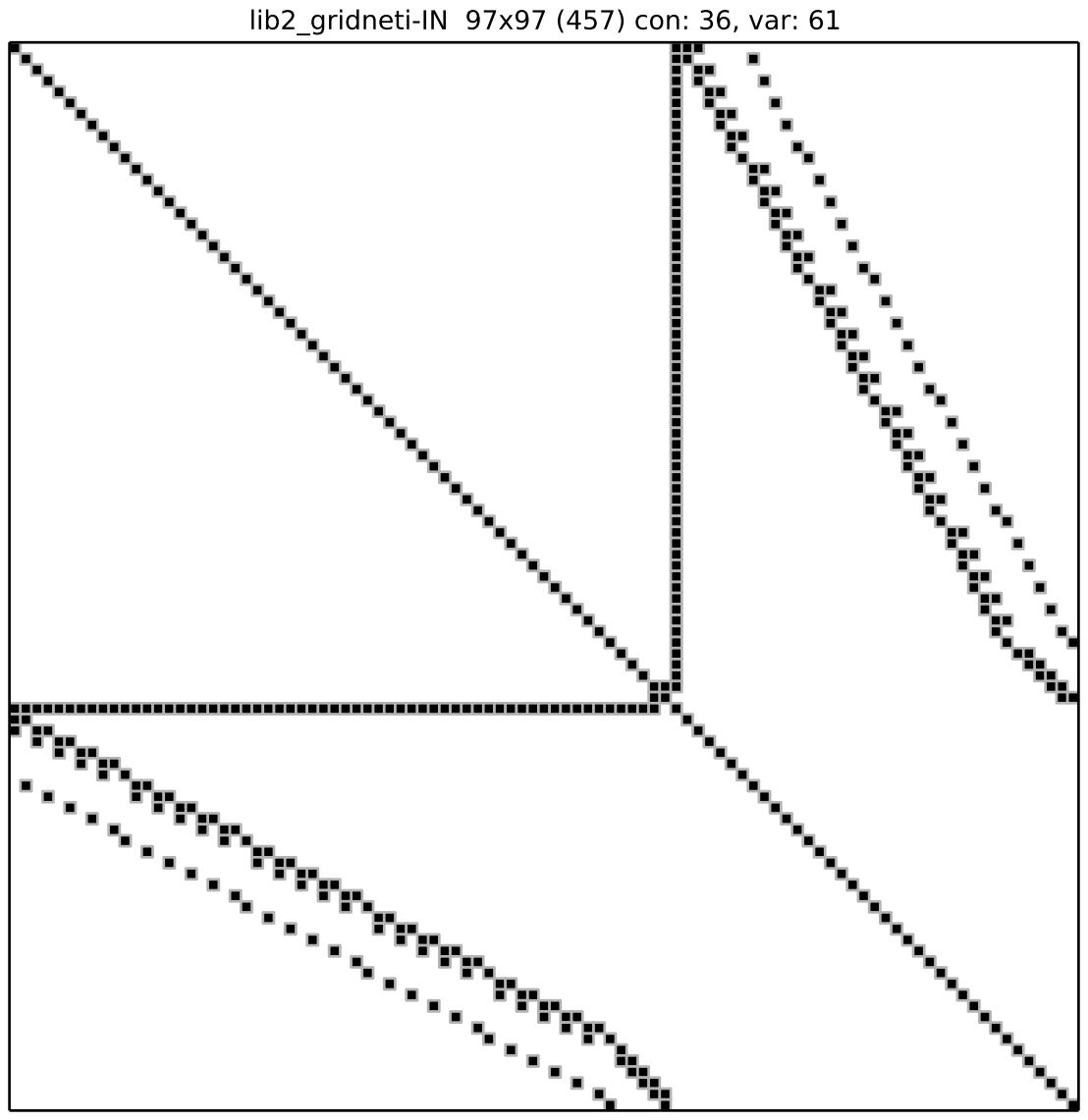
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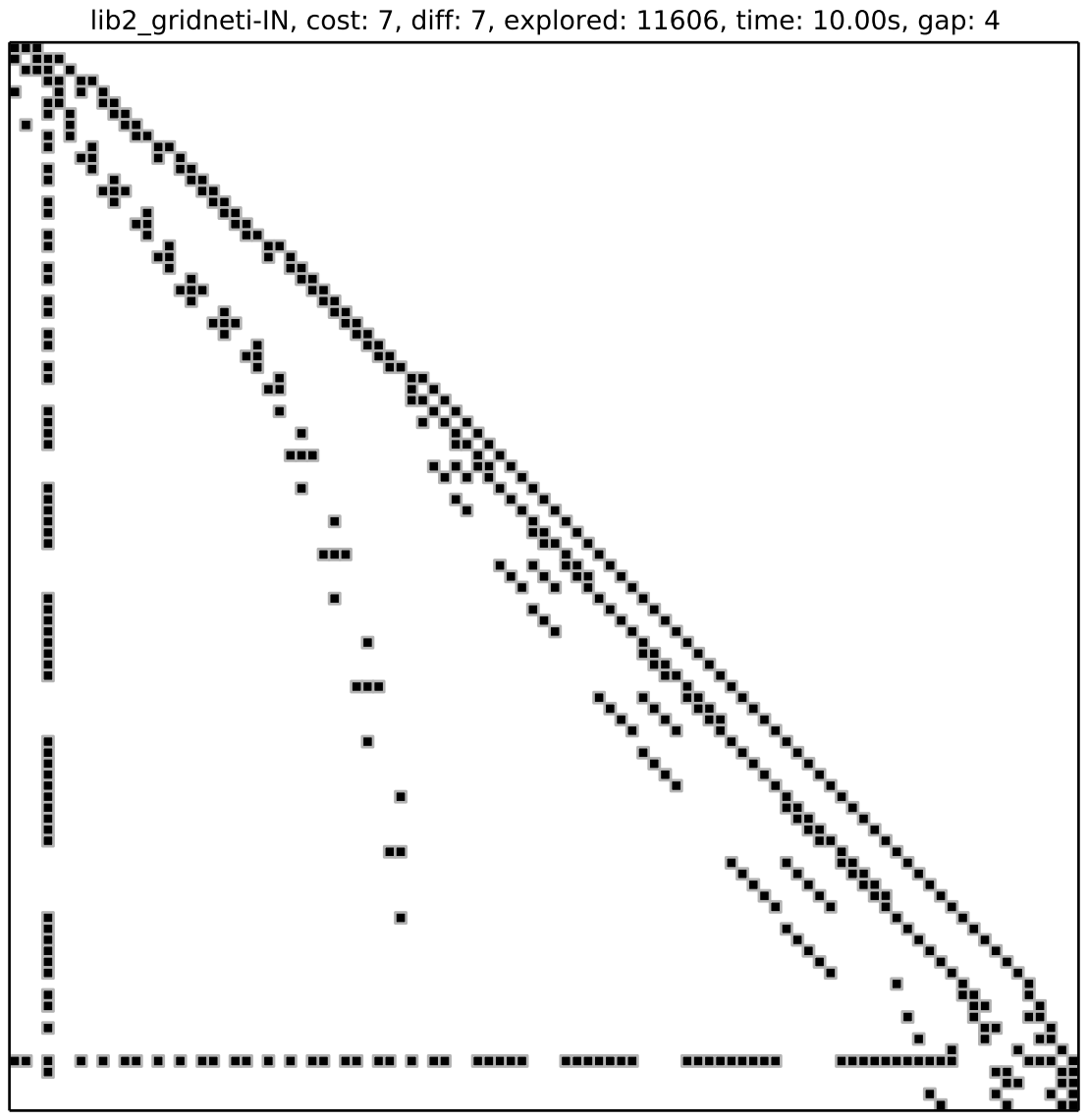
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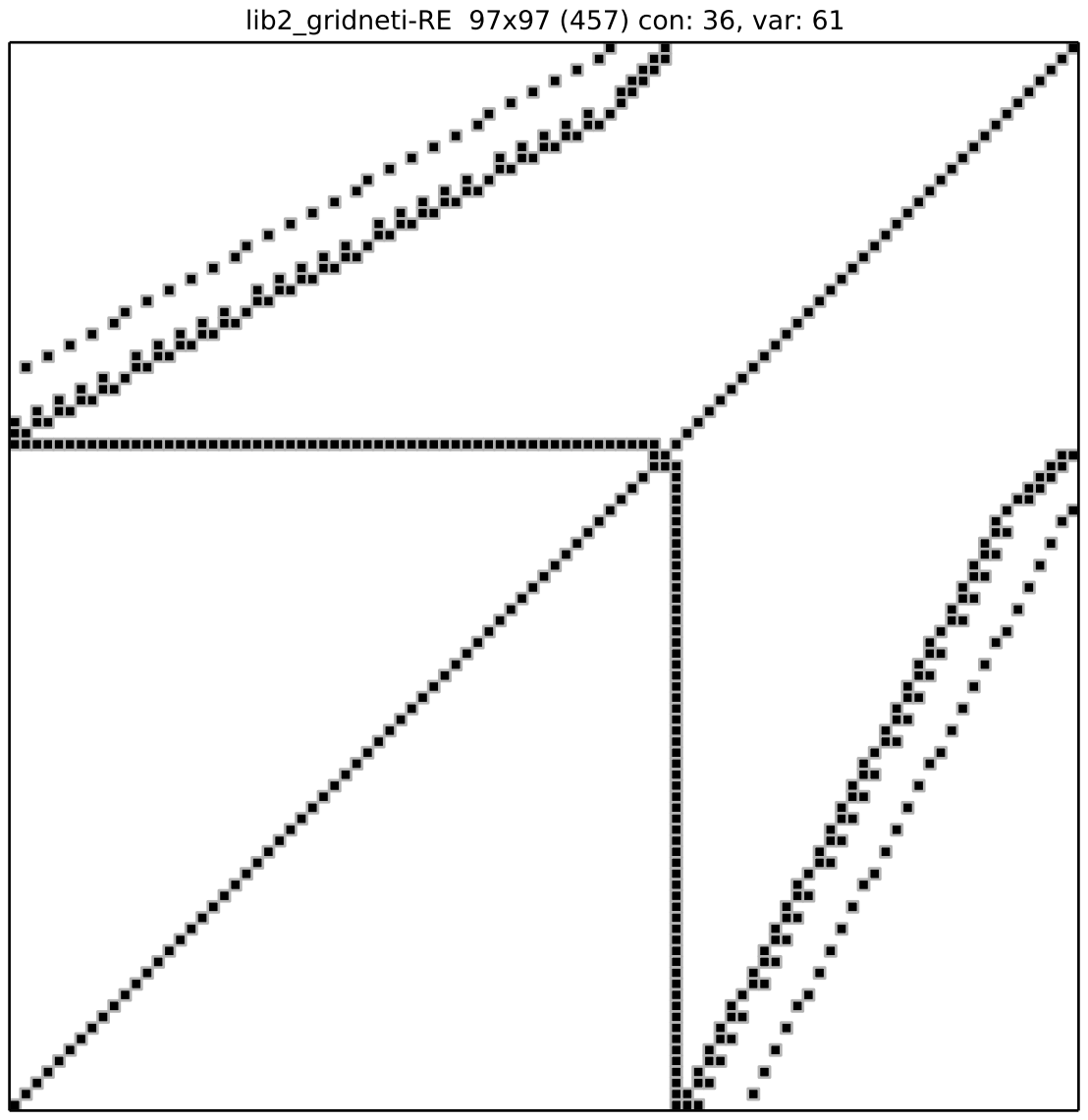
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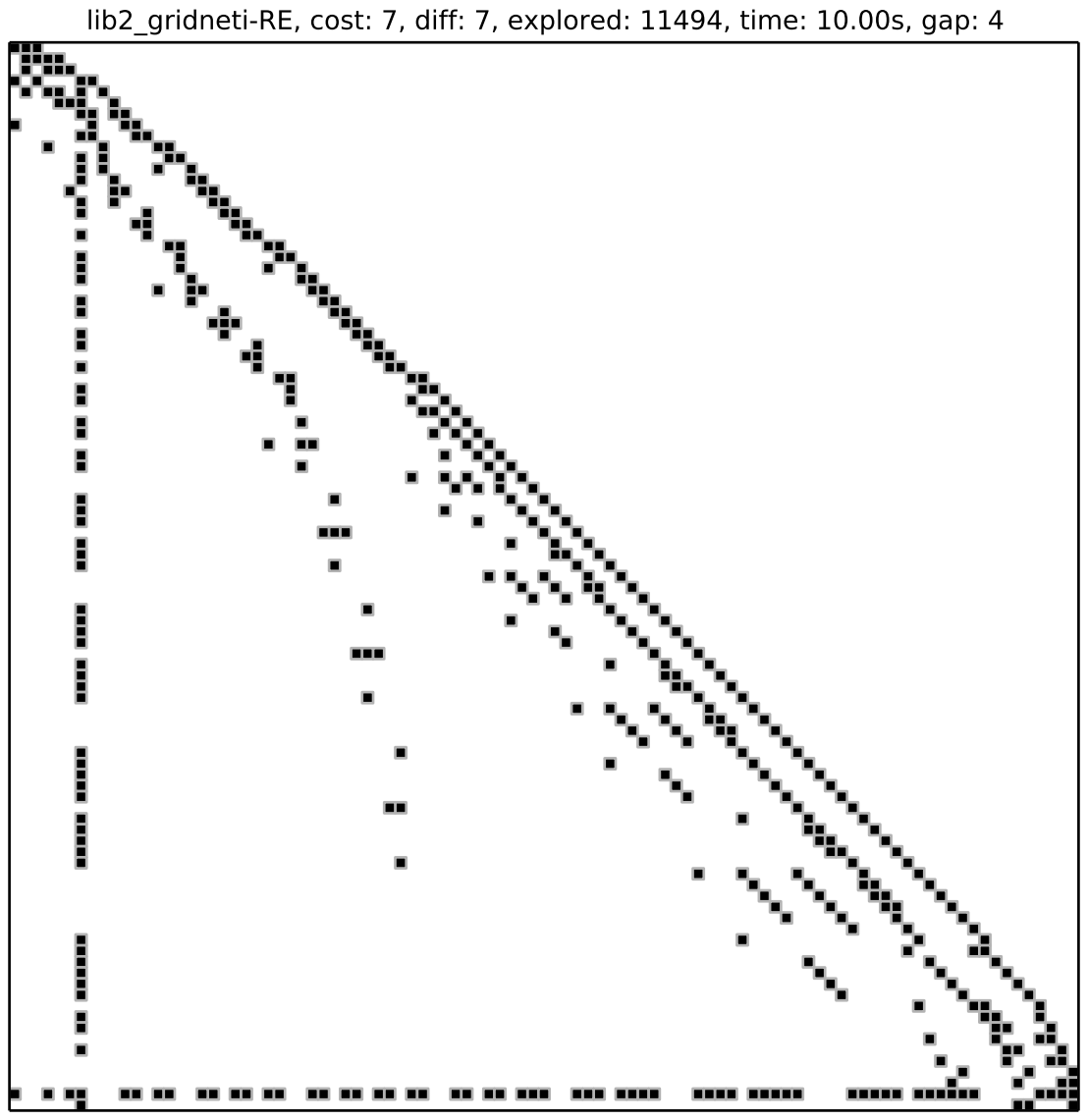
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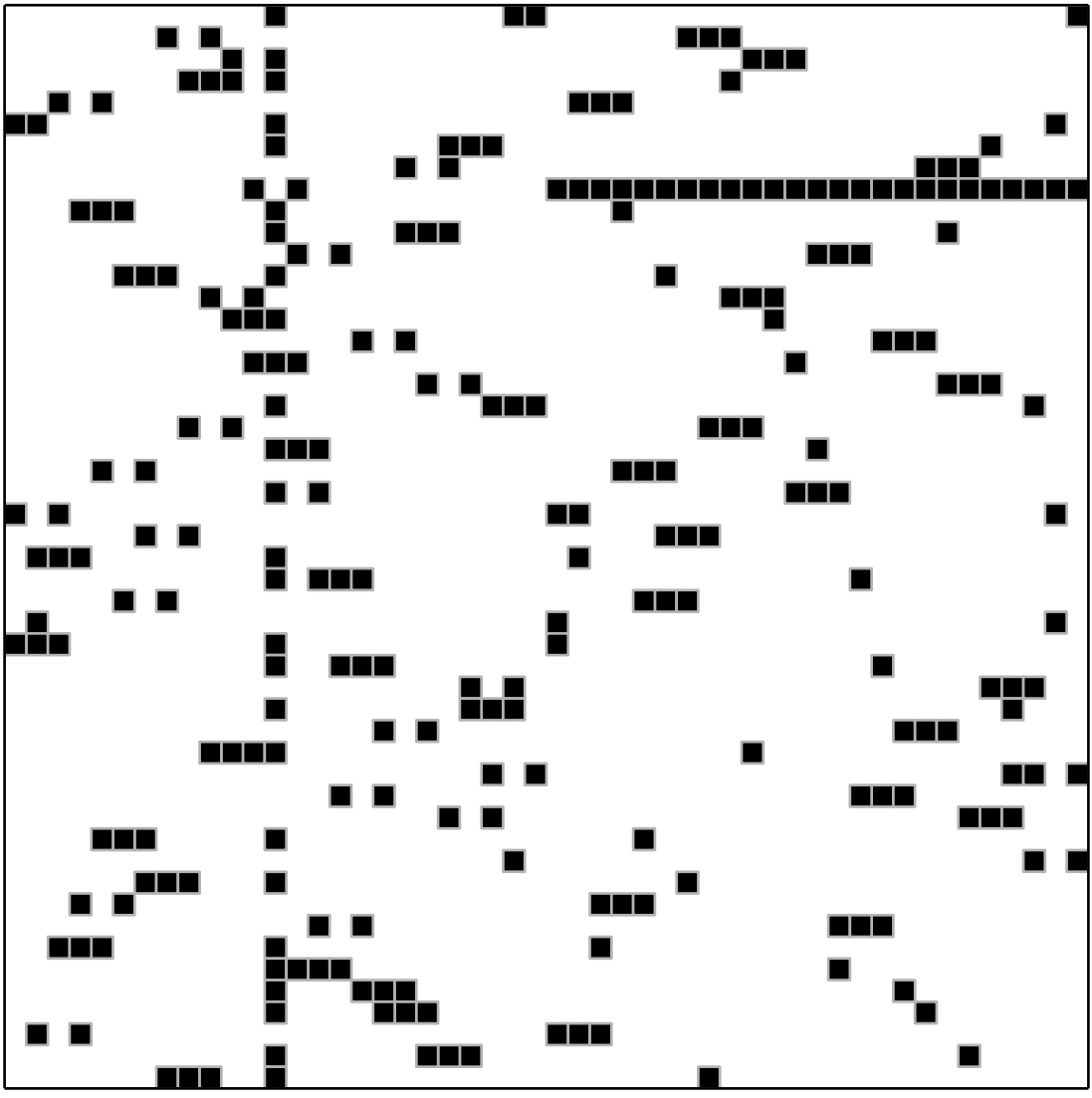
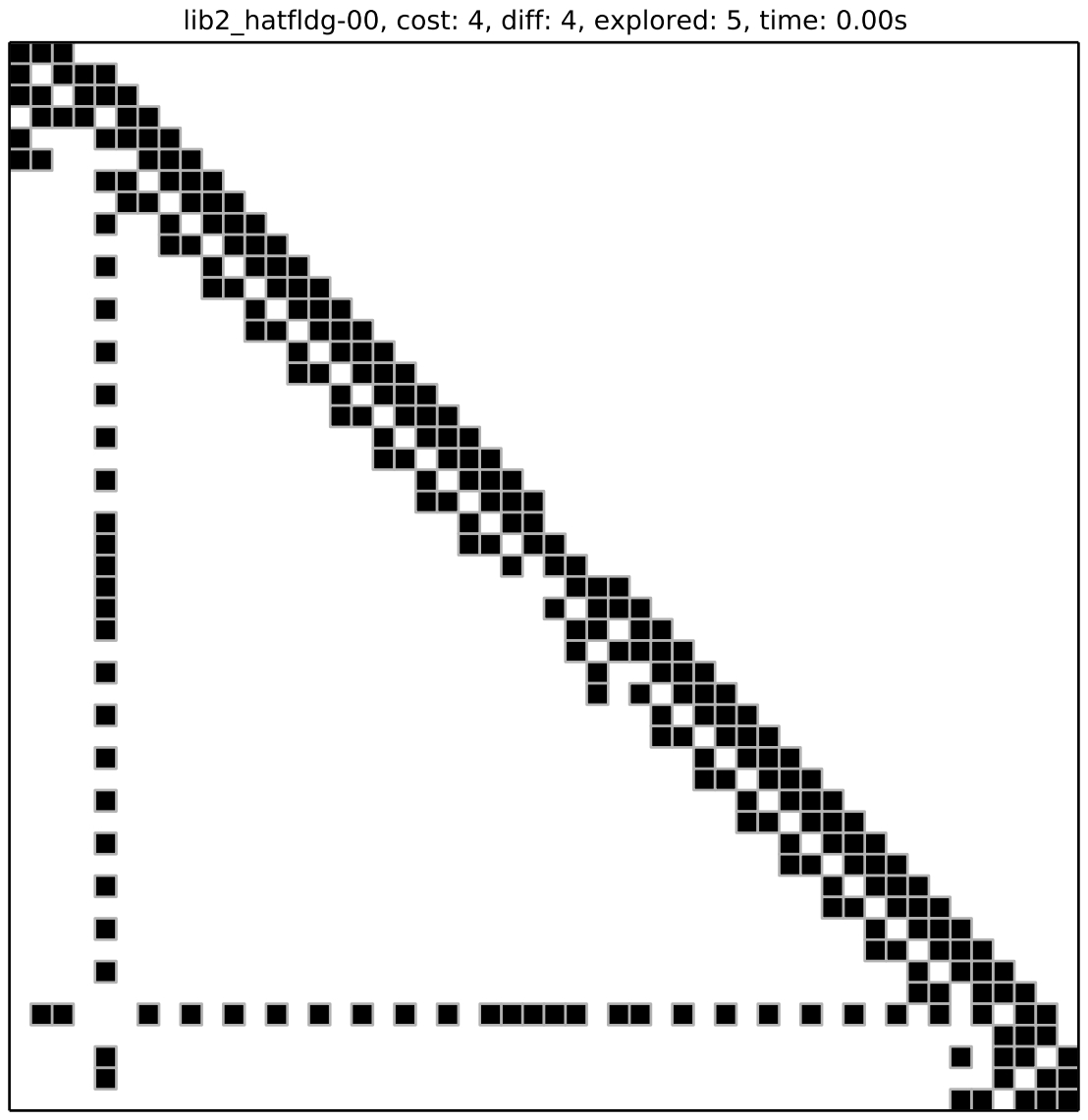
lib2_hatfldg-00 50x50 (263) con: 25, var: 25

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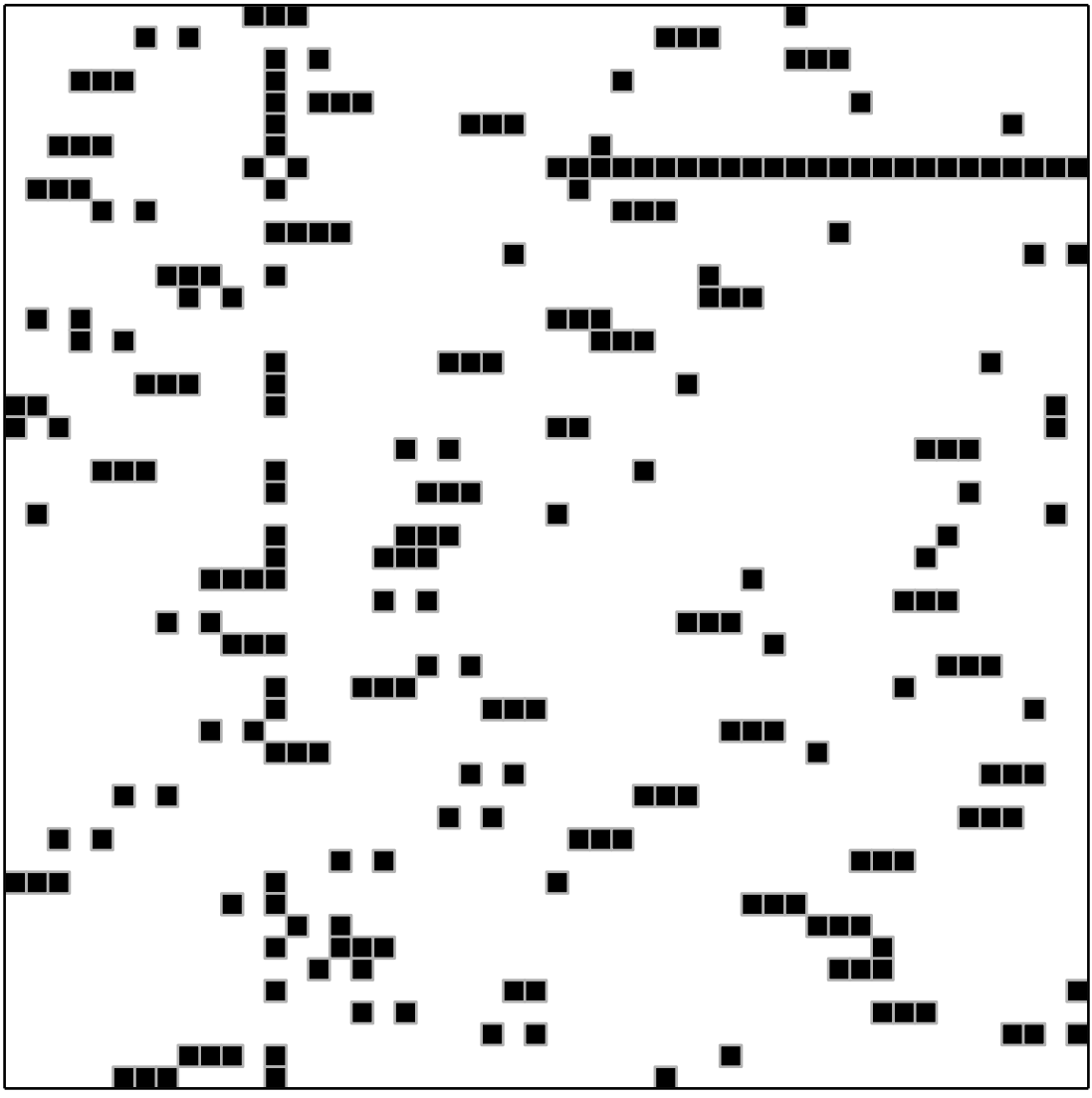
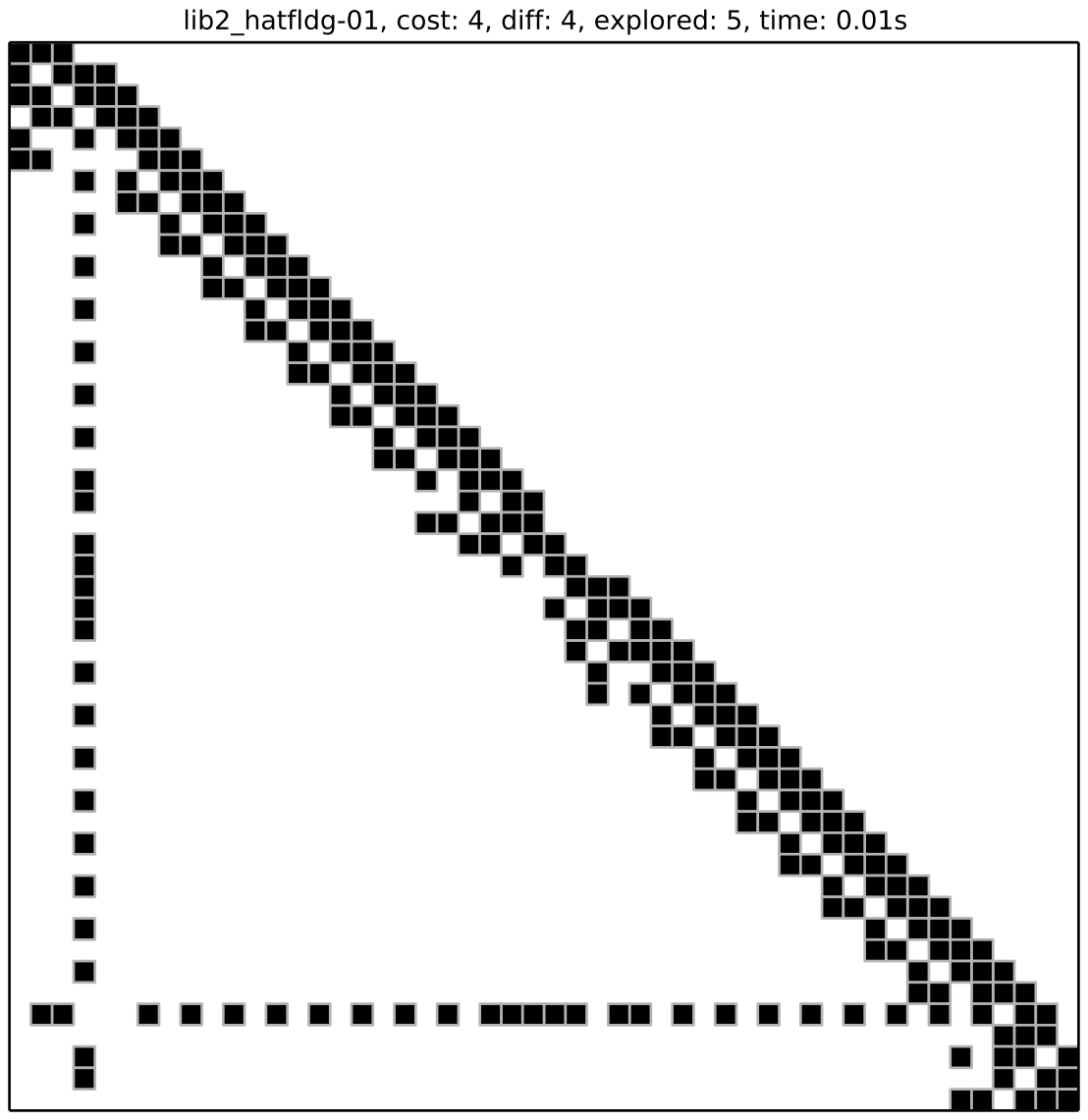
lib2_hatfldg-01 50x50 (263) con: 25, var: 25

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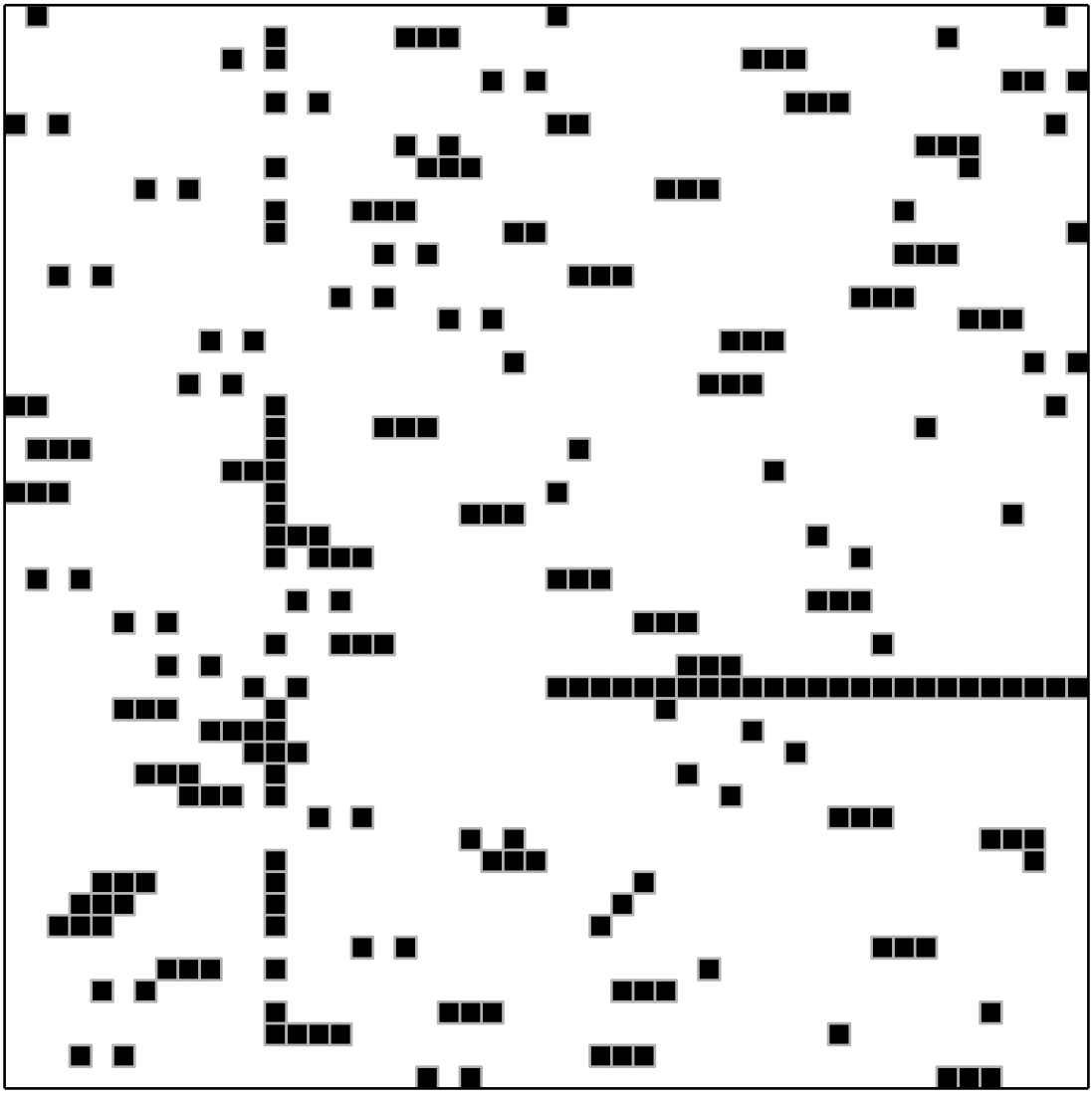
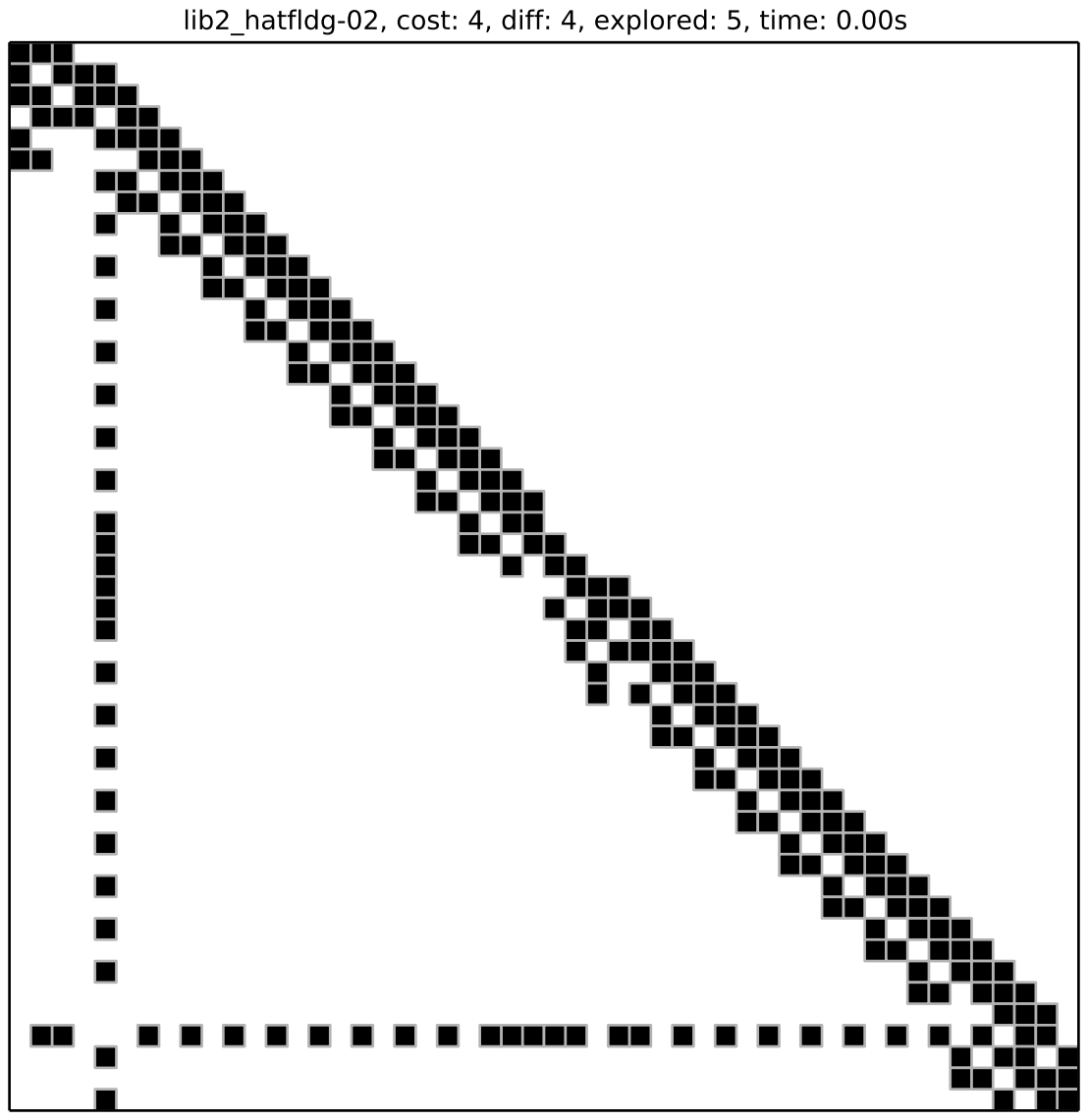
lib2_hatfldg-02 50x50 (263) con: 25, var: 25

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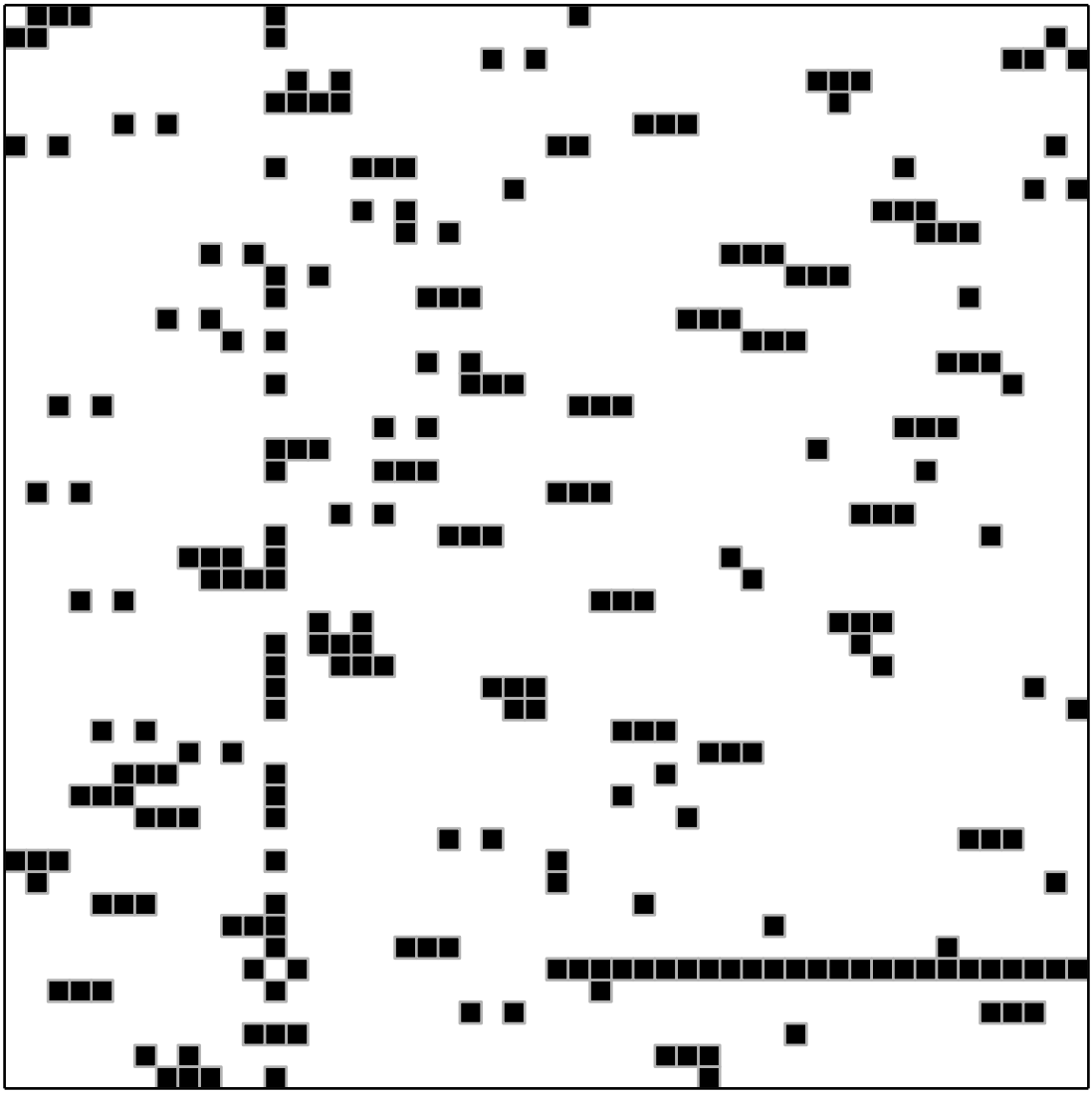
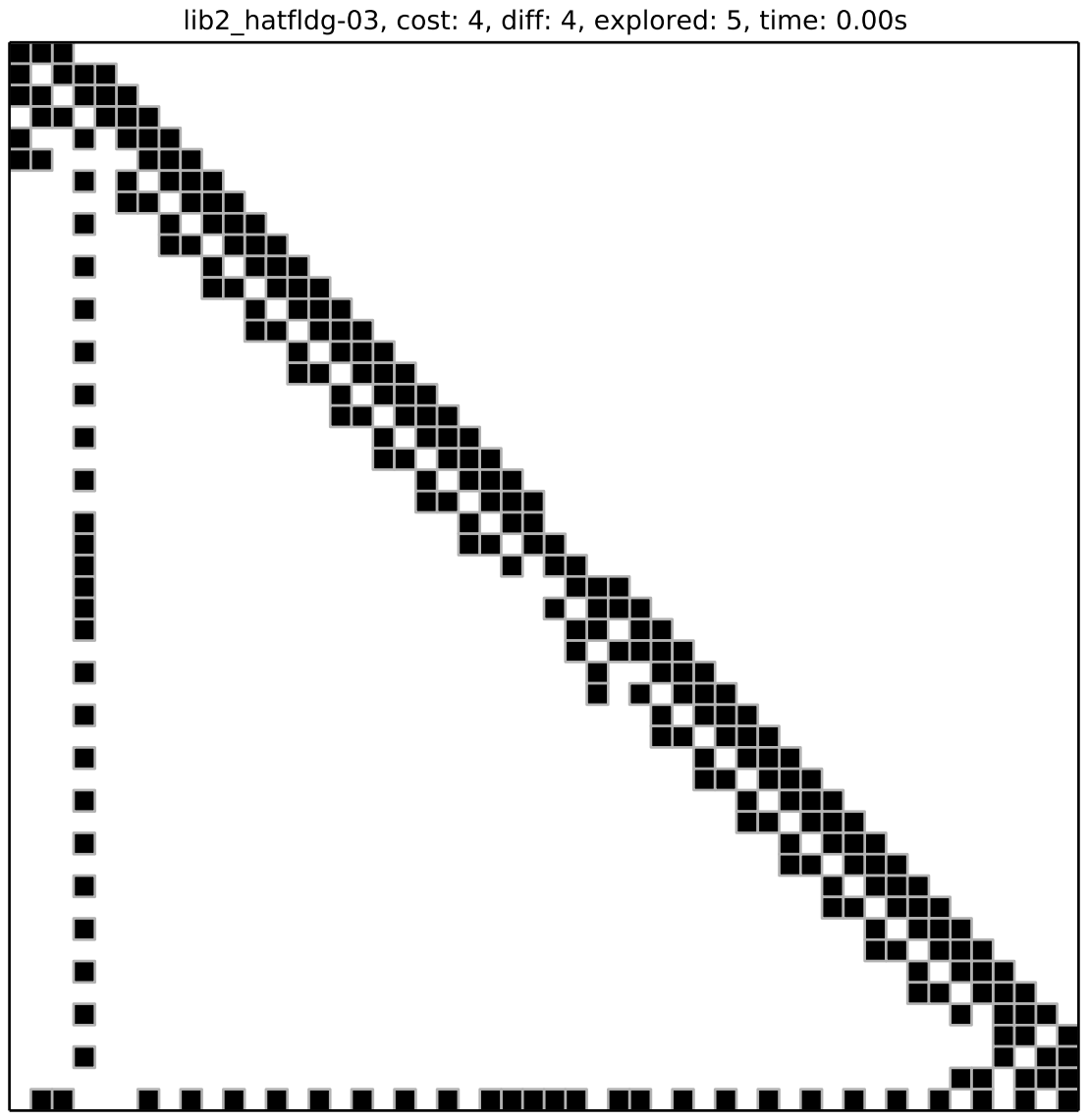
lib2_hatfldg-03 50x50 (263) con: 25, var: 25

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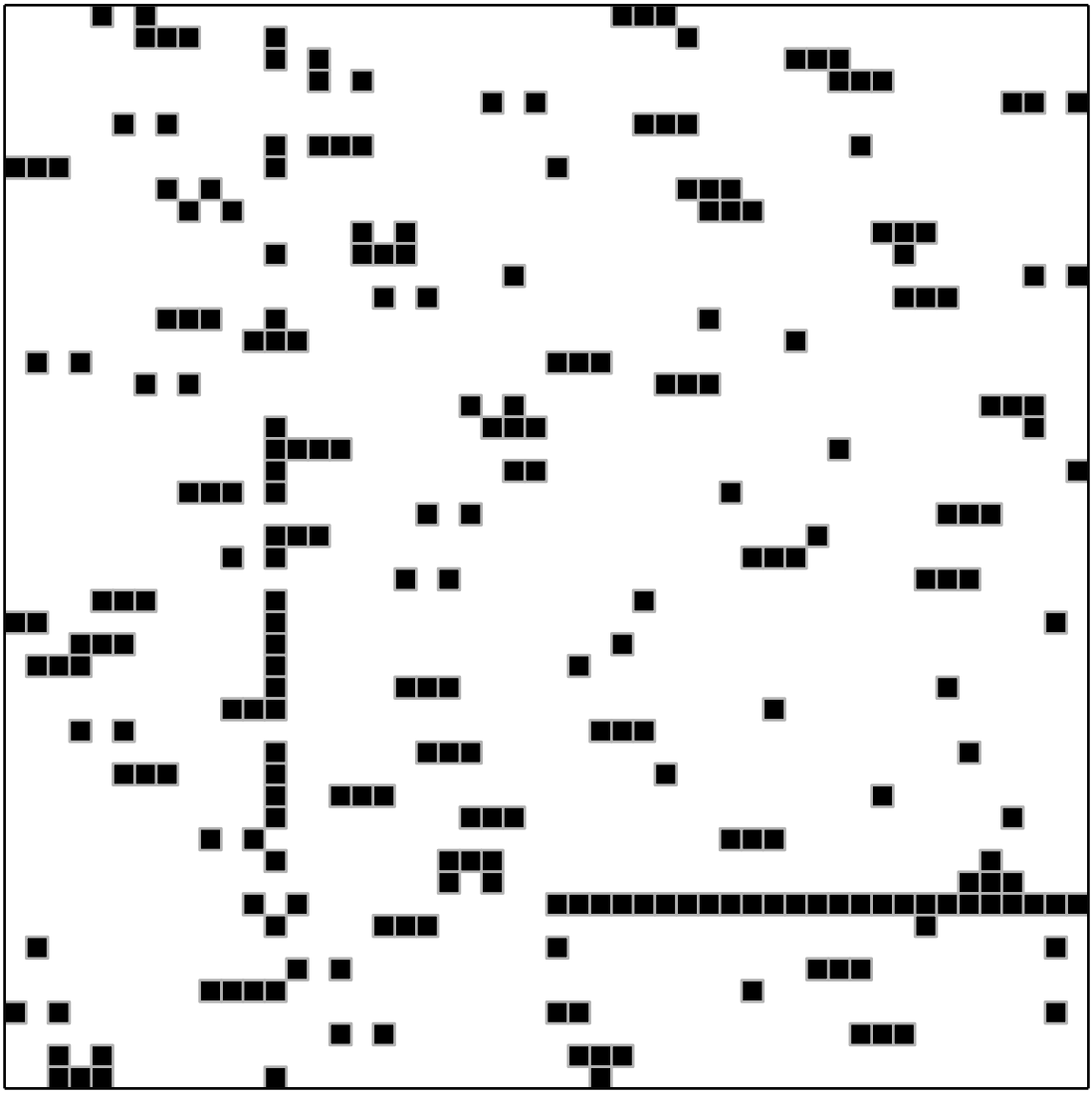
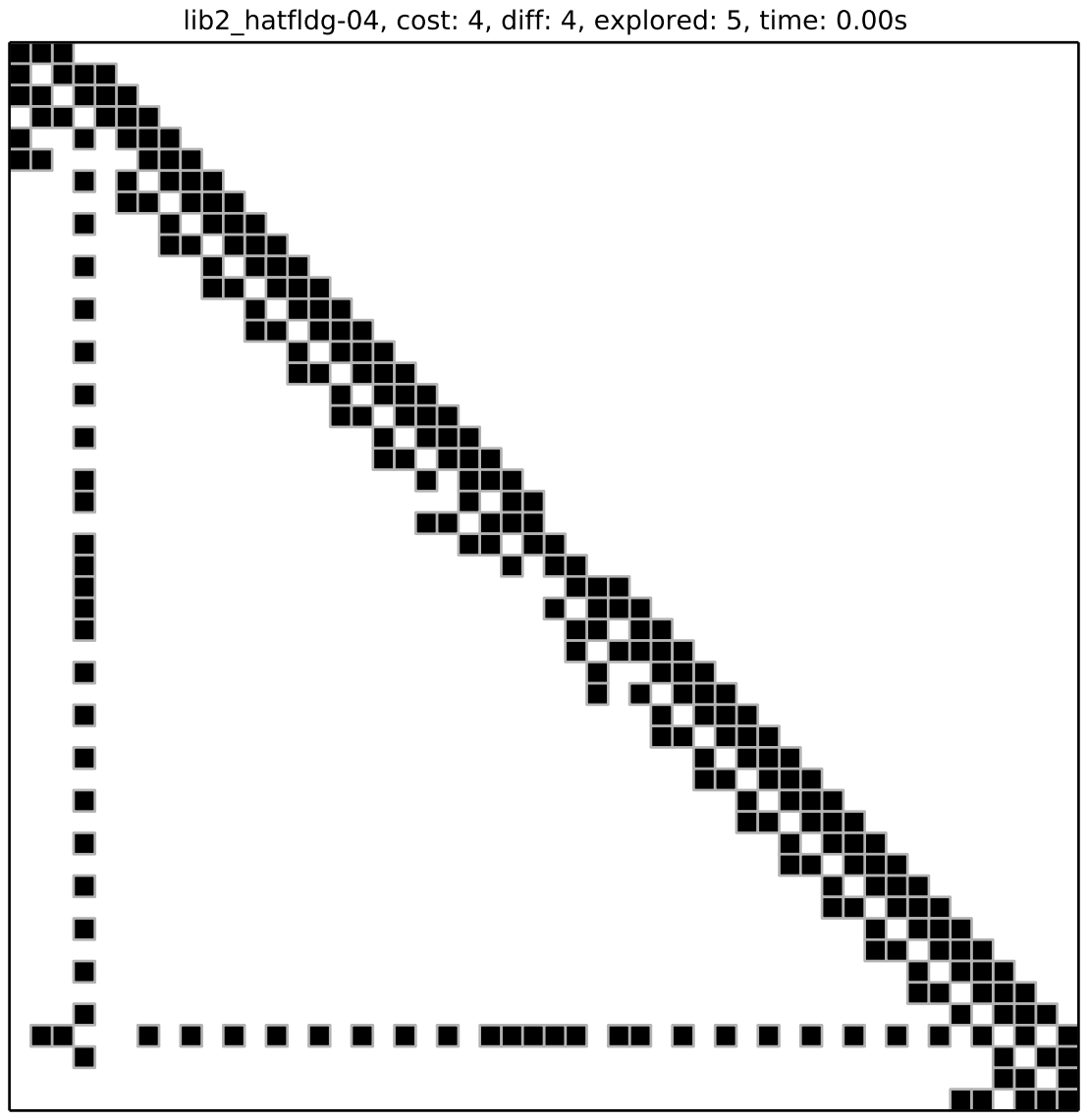
lib2_hatfldg-04 50x50 (263) con: 25, var: 25

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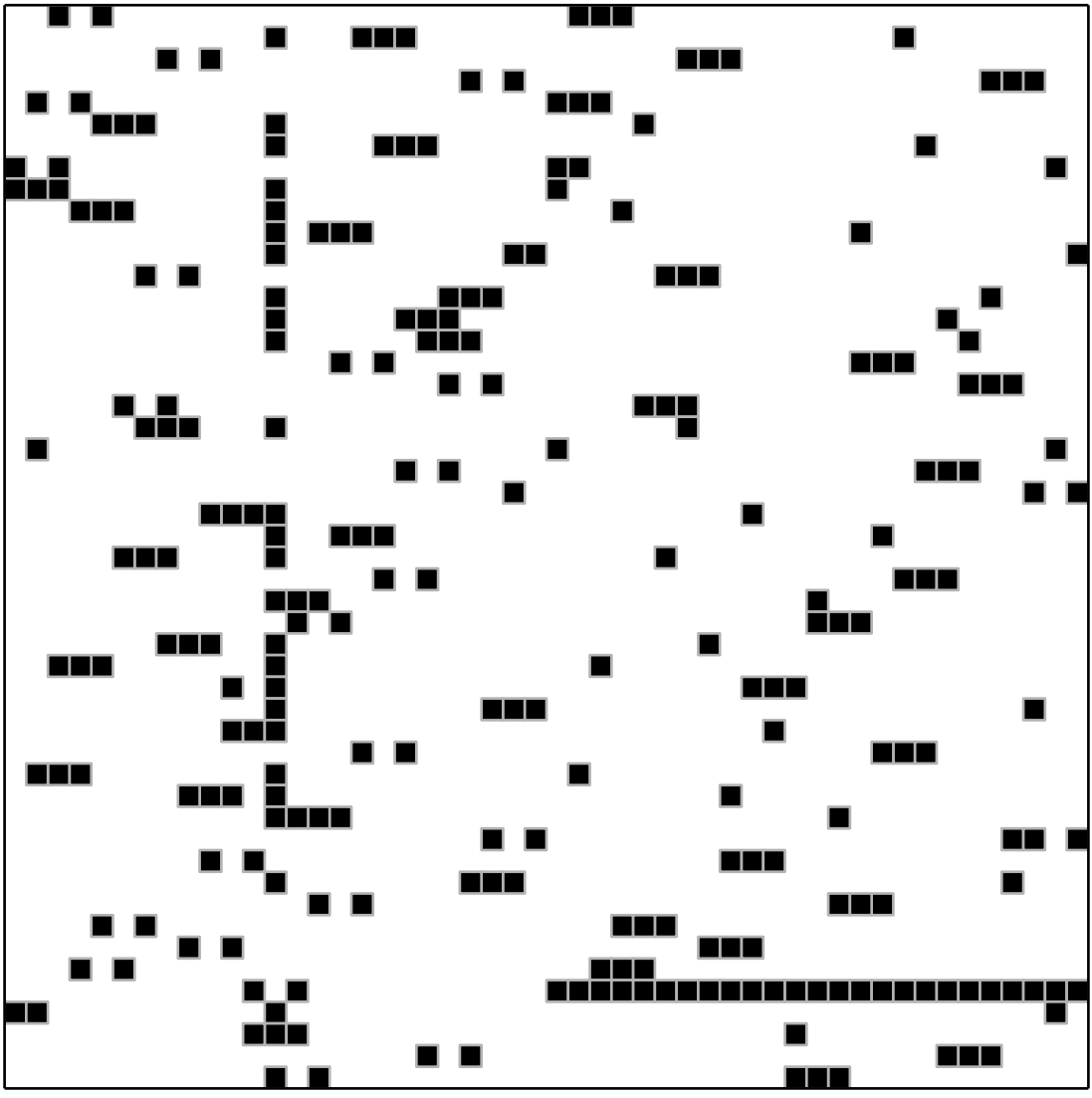

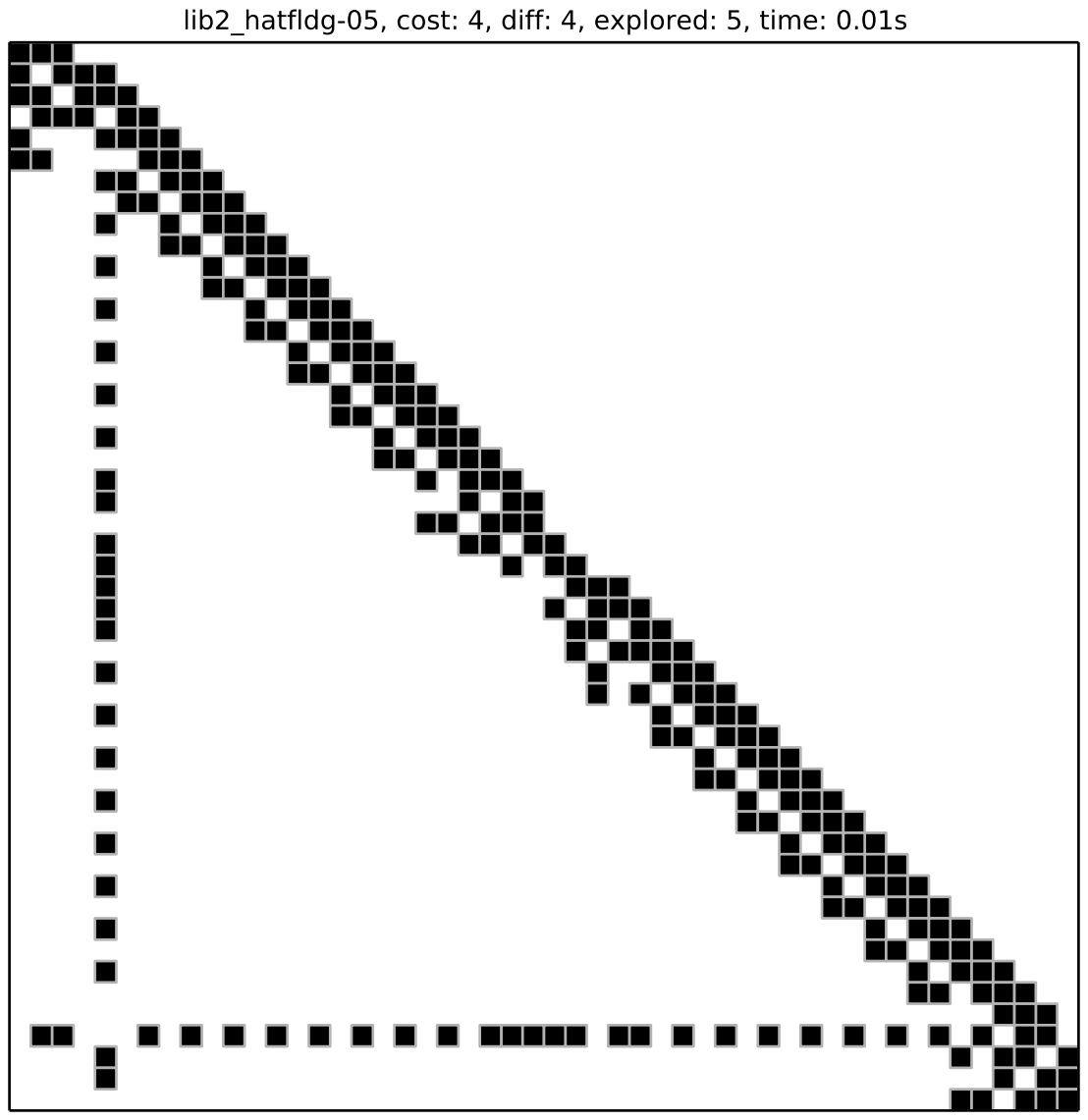
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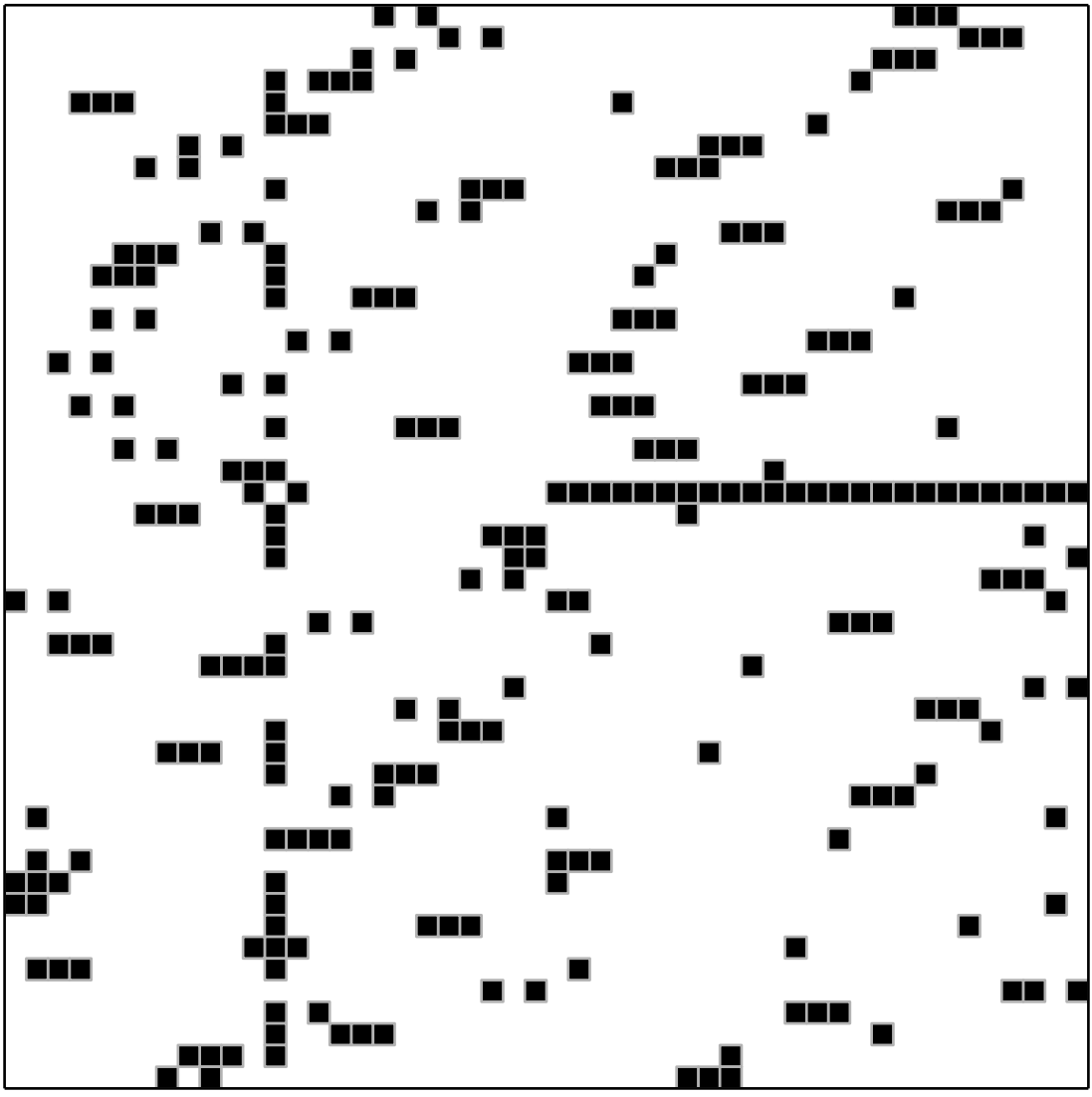
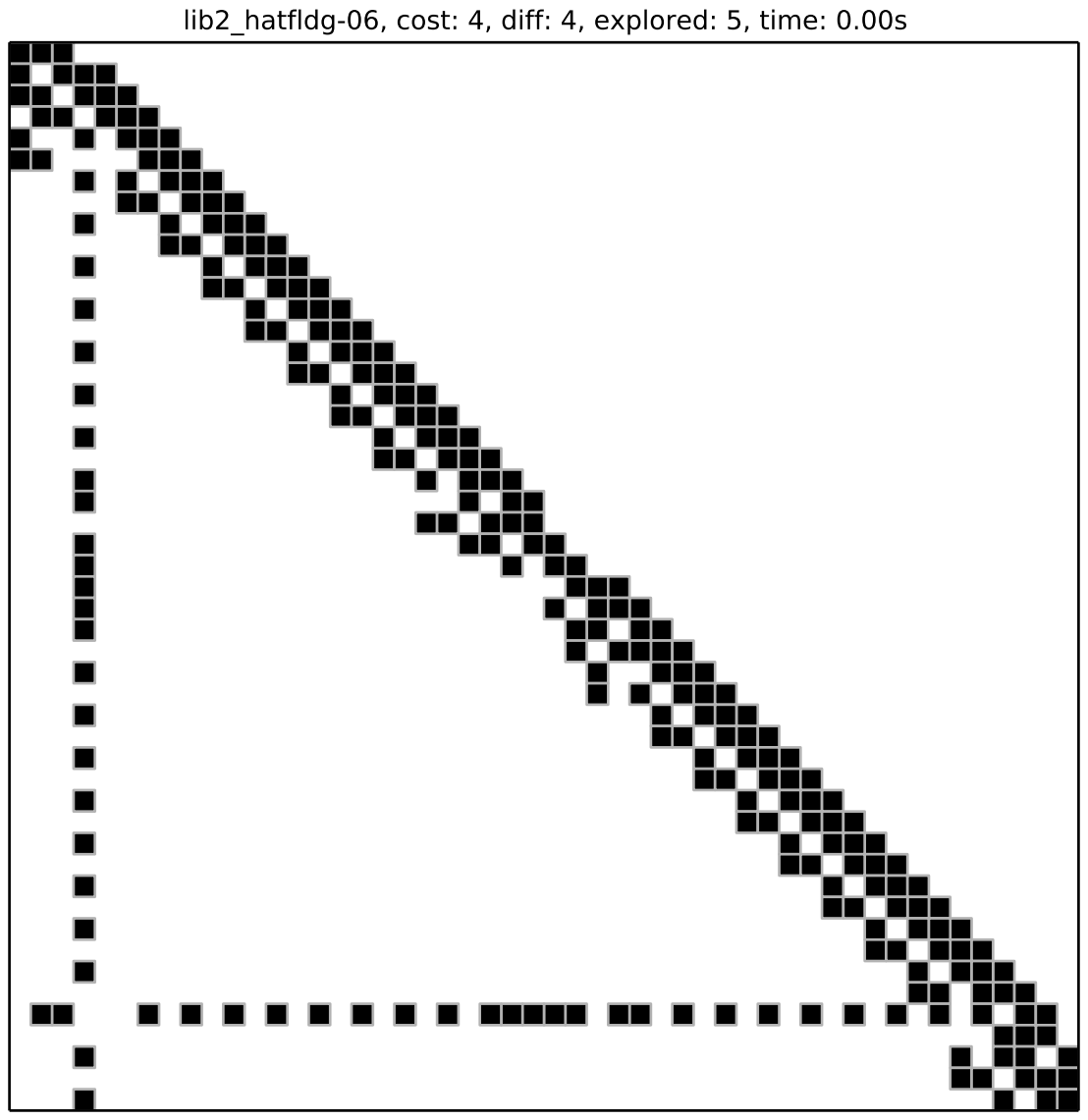
lib2_hatfldg-06 50x50 (263) con: 25, var: 25

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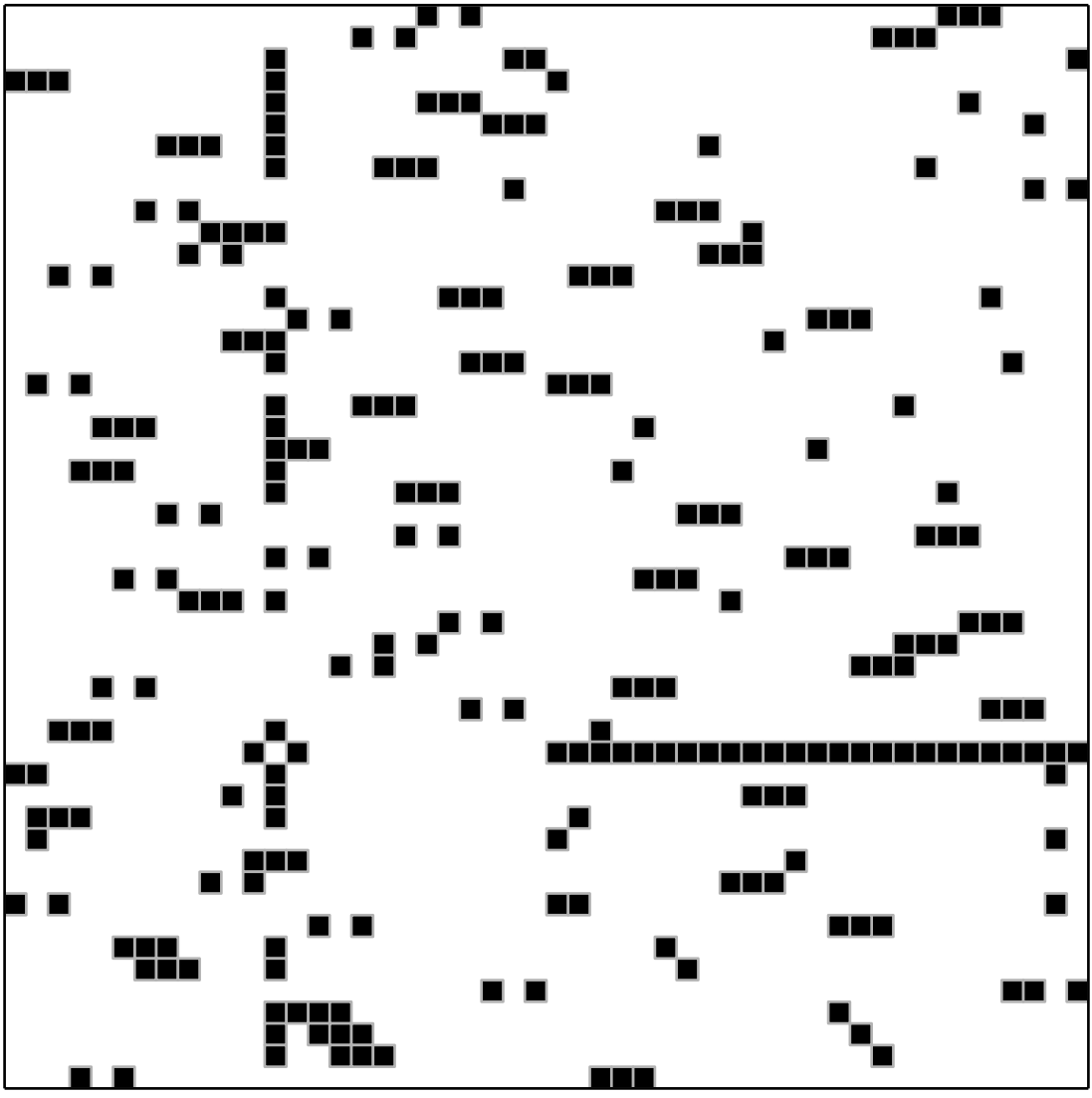
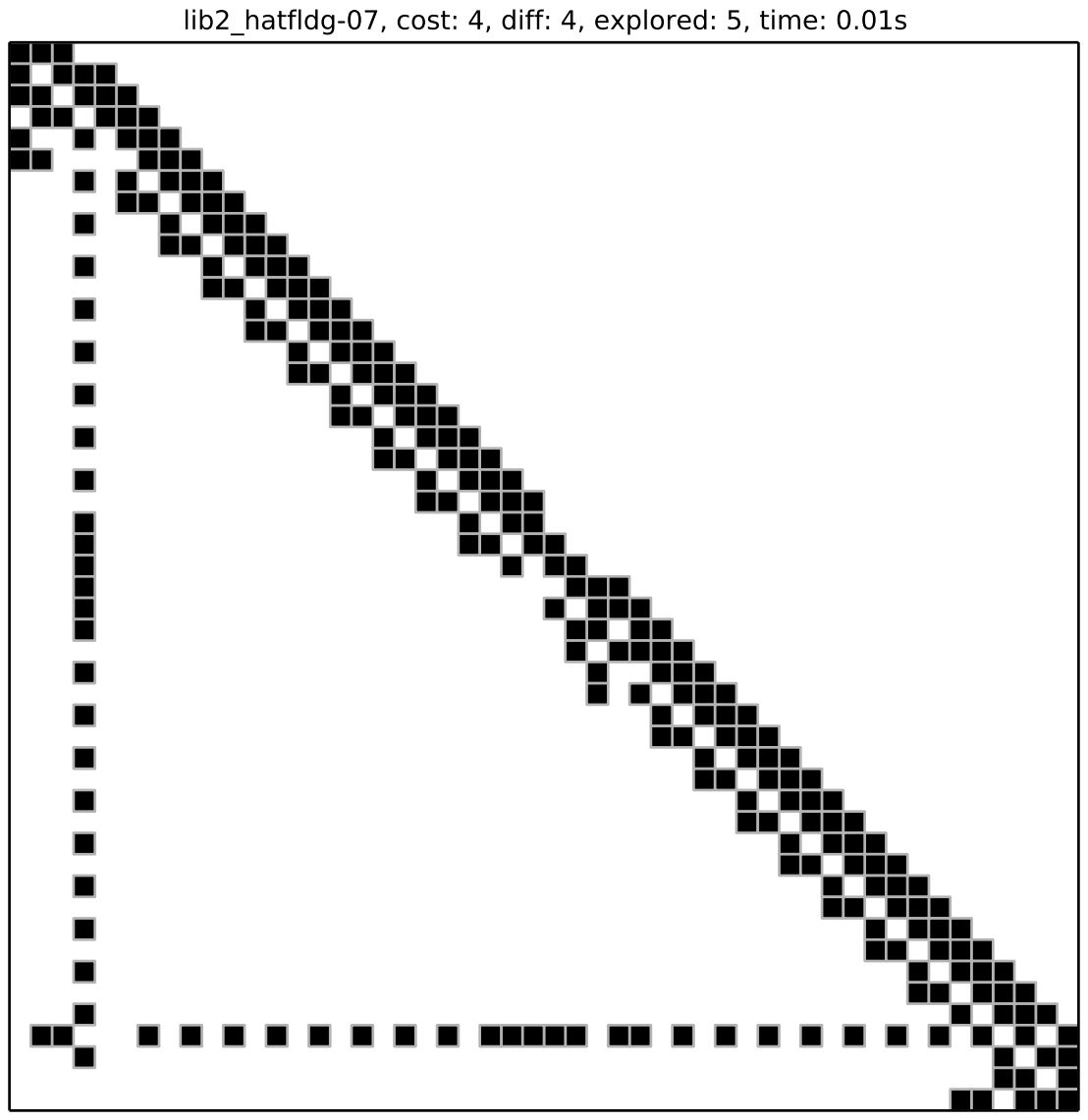
lib2_hatfldg-07 50x50 (263) con: 25, var: 25

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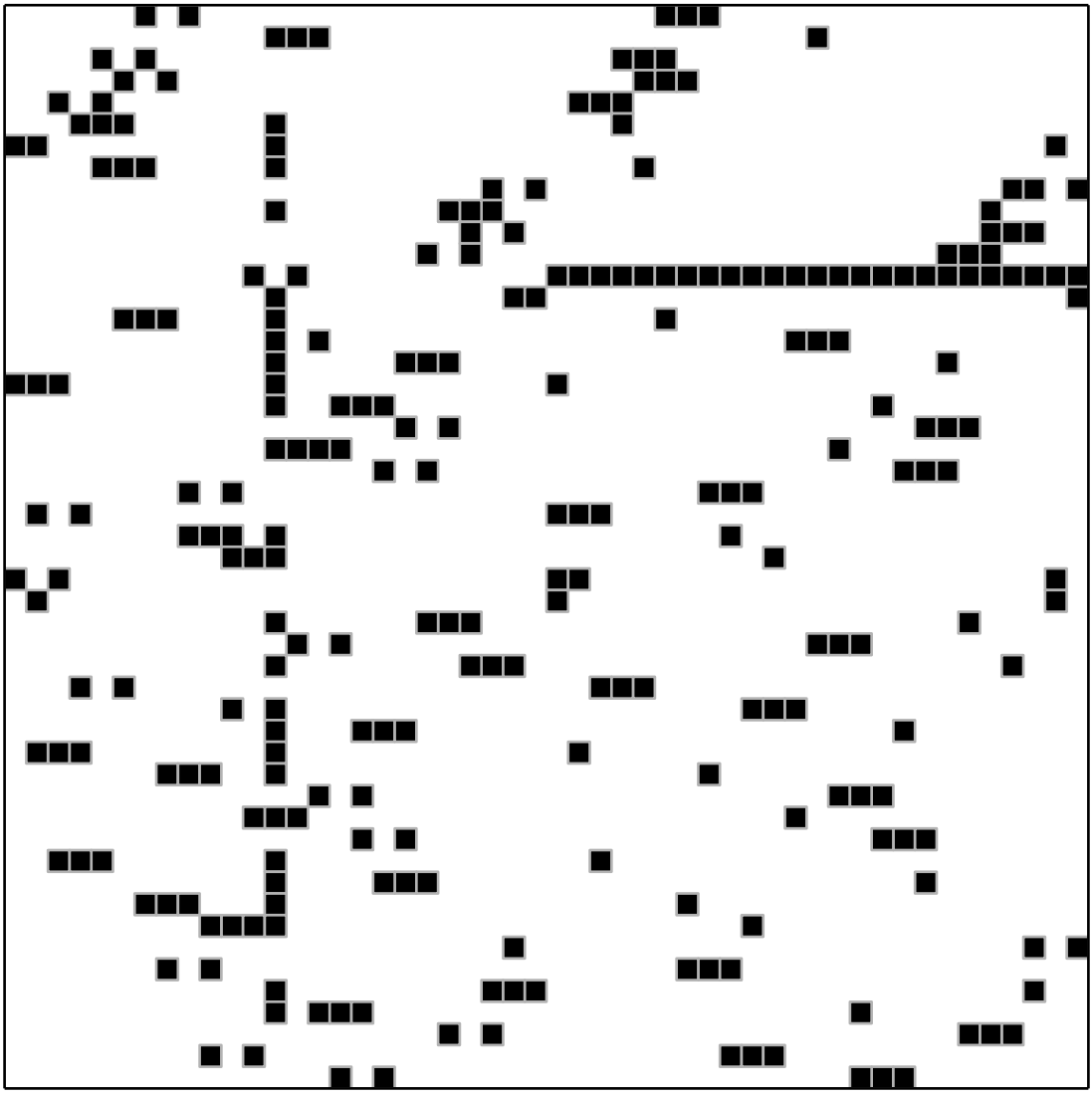
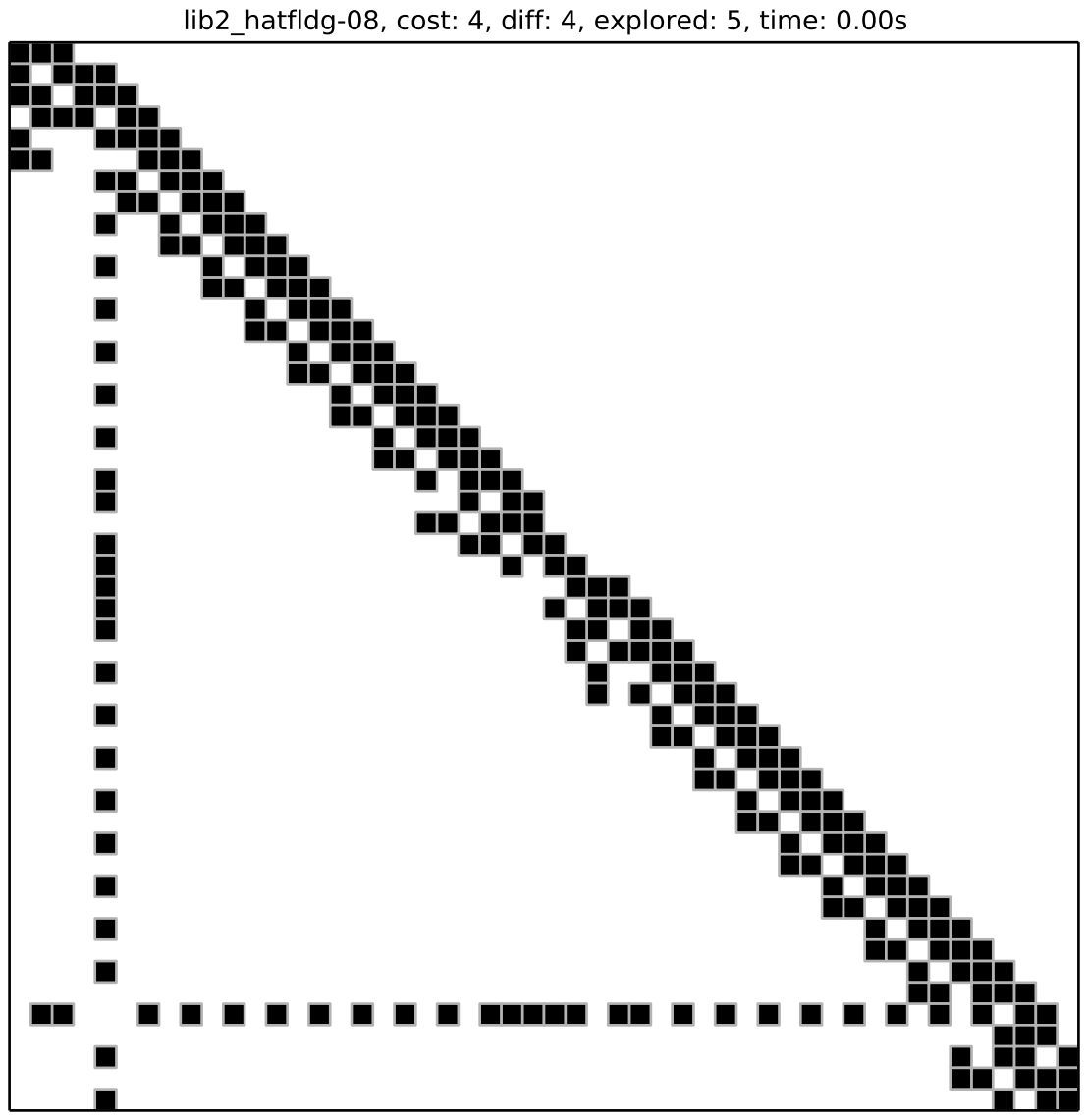
lib2_hatfldg-08 50x50 (263) con: 25, var: 25

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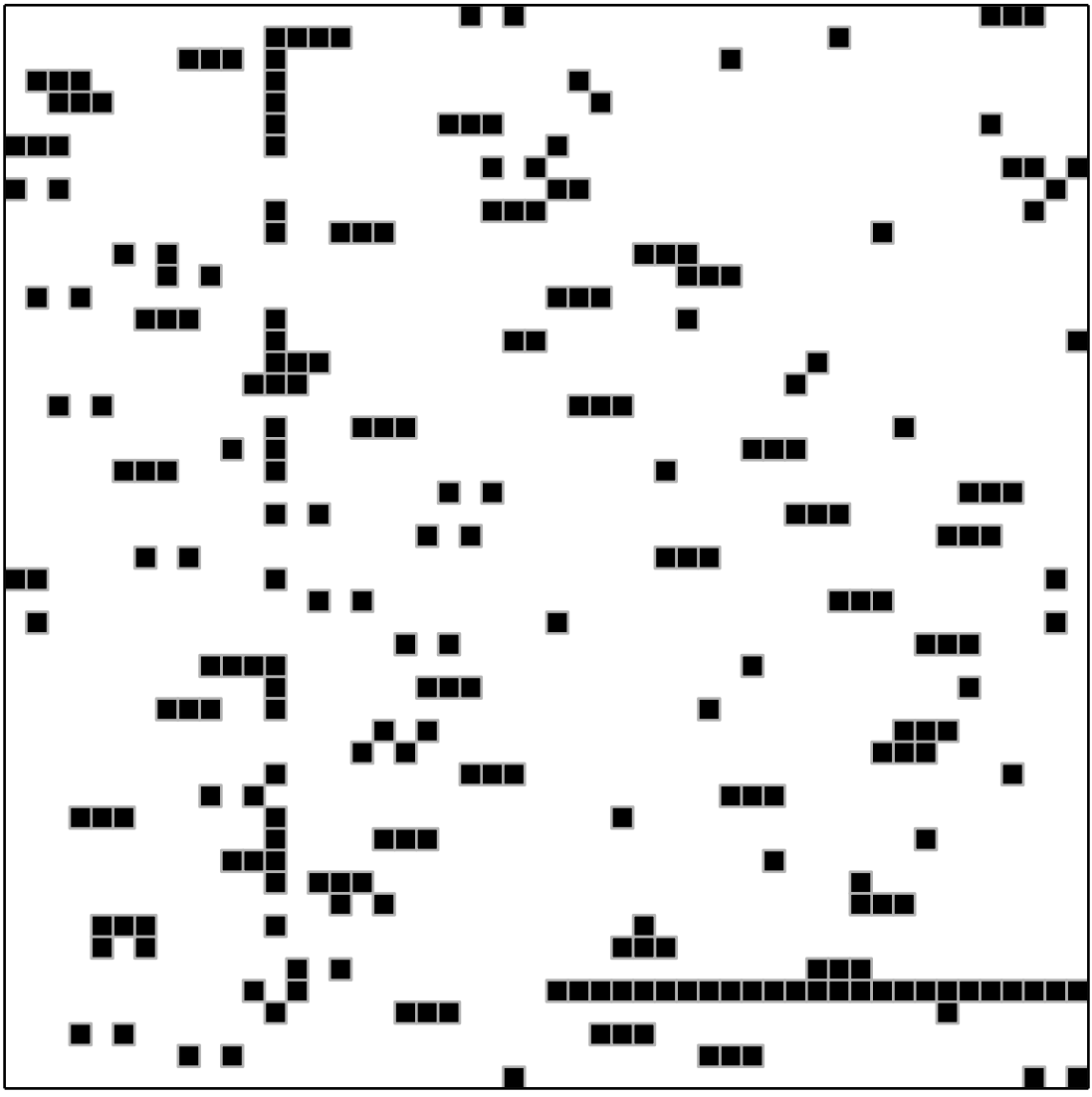

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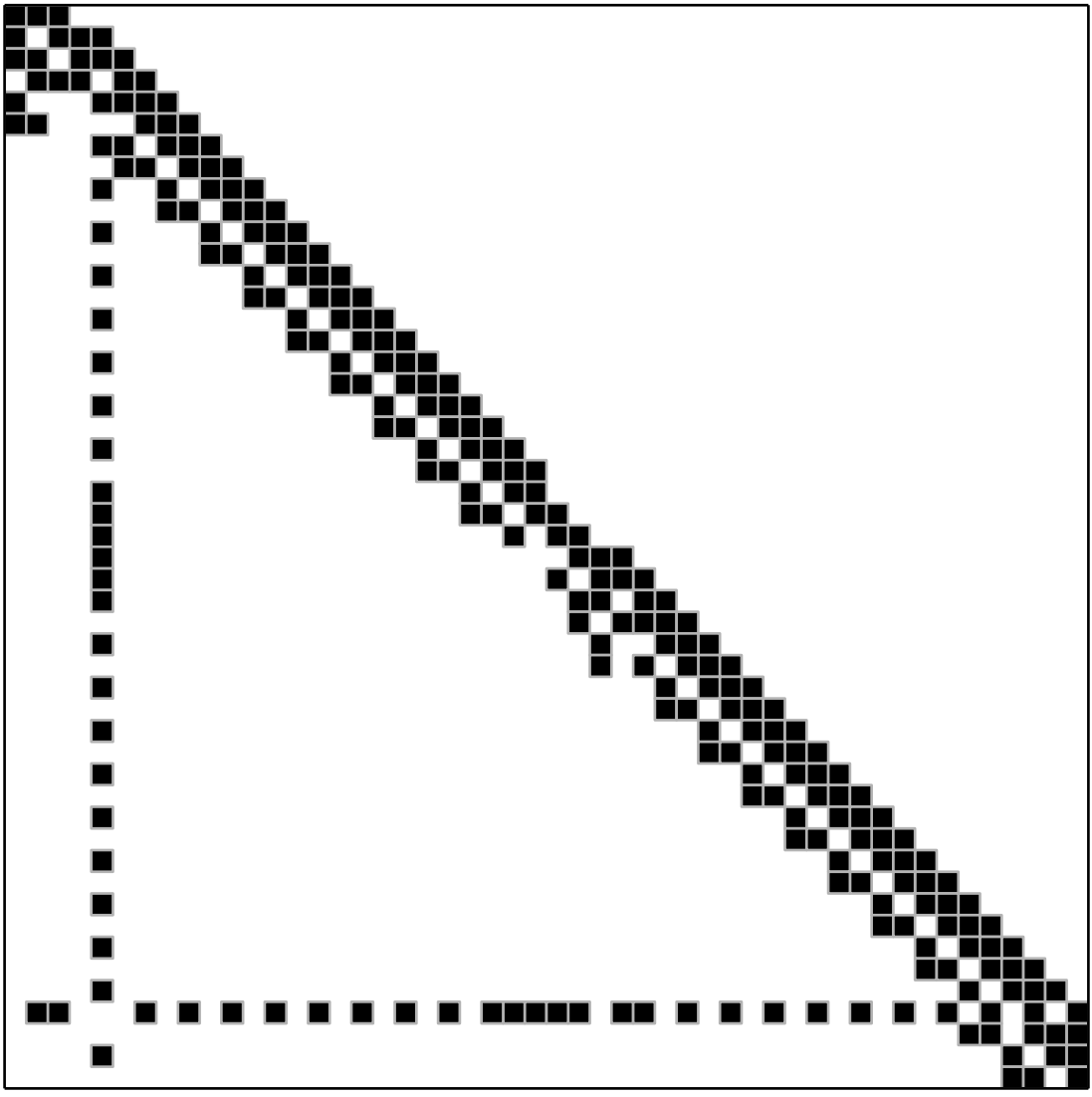
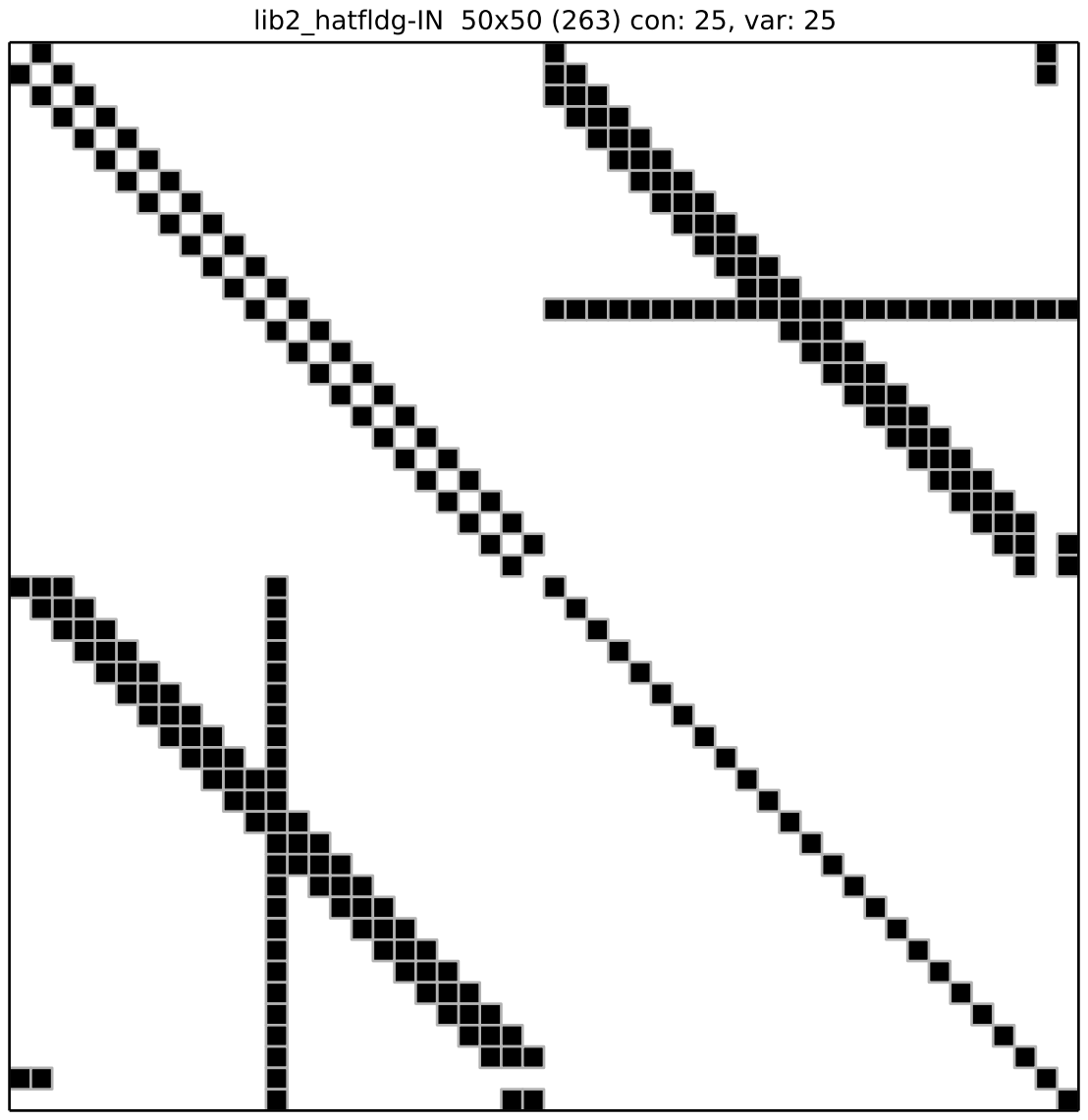
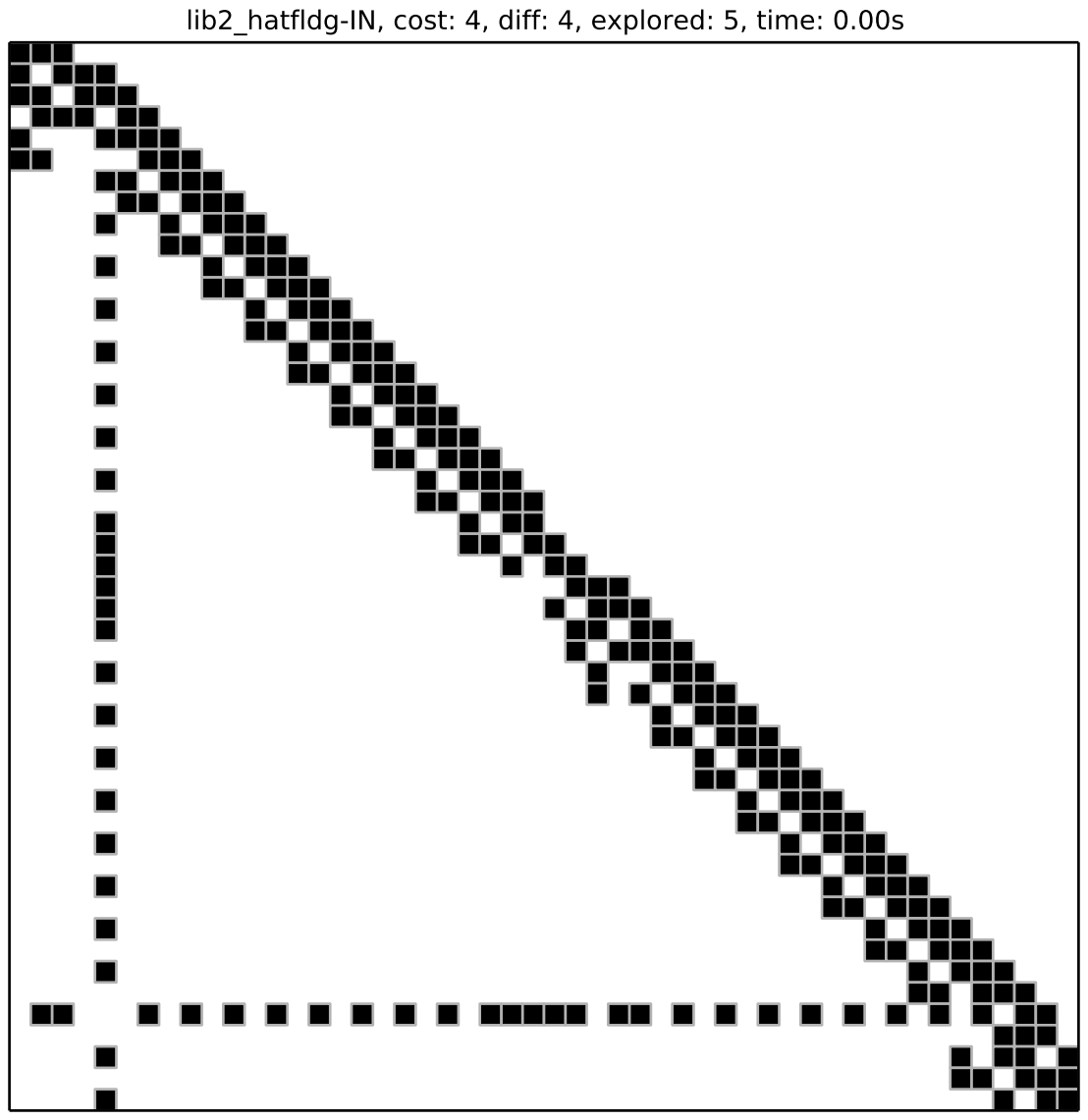
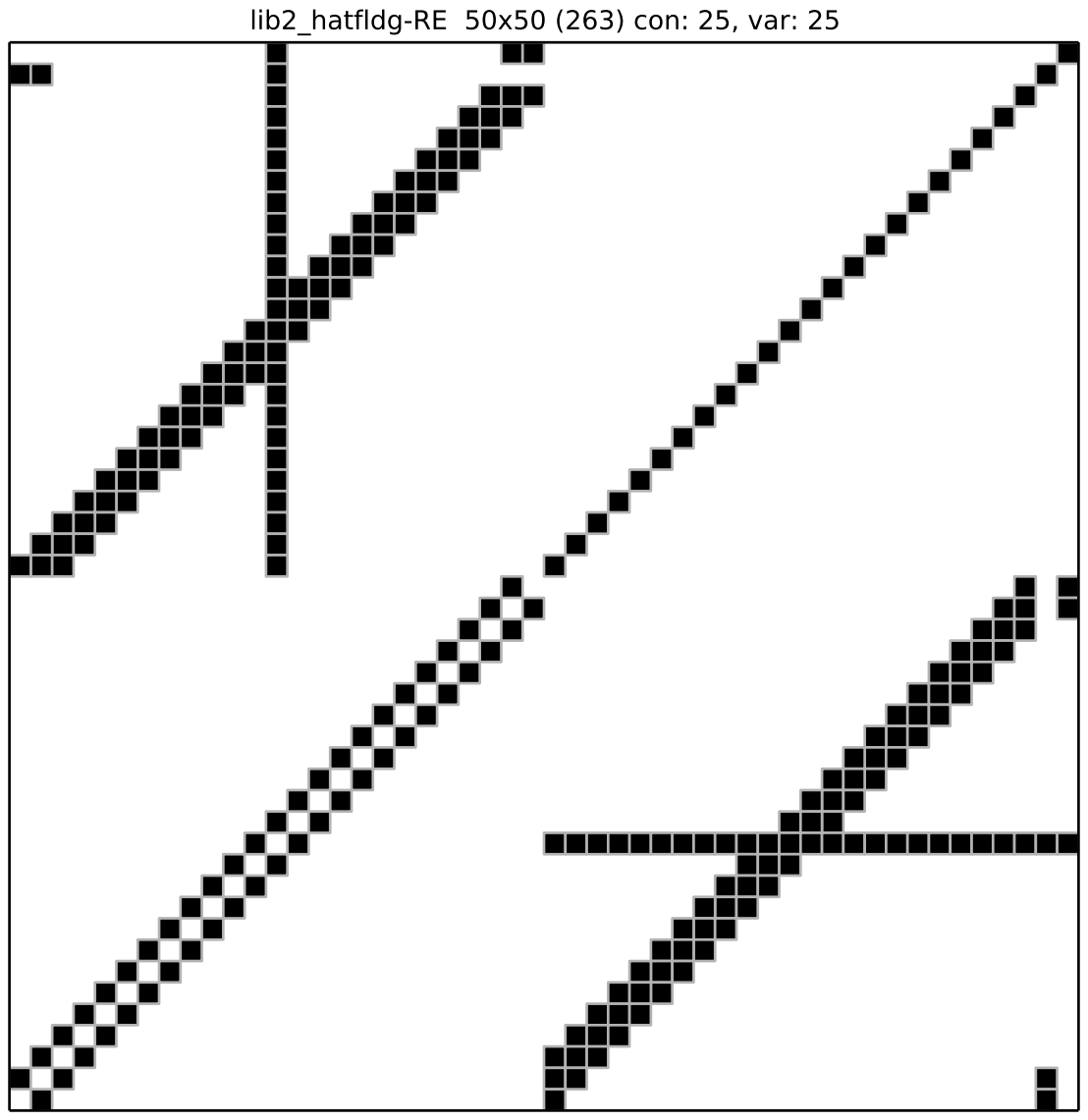
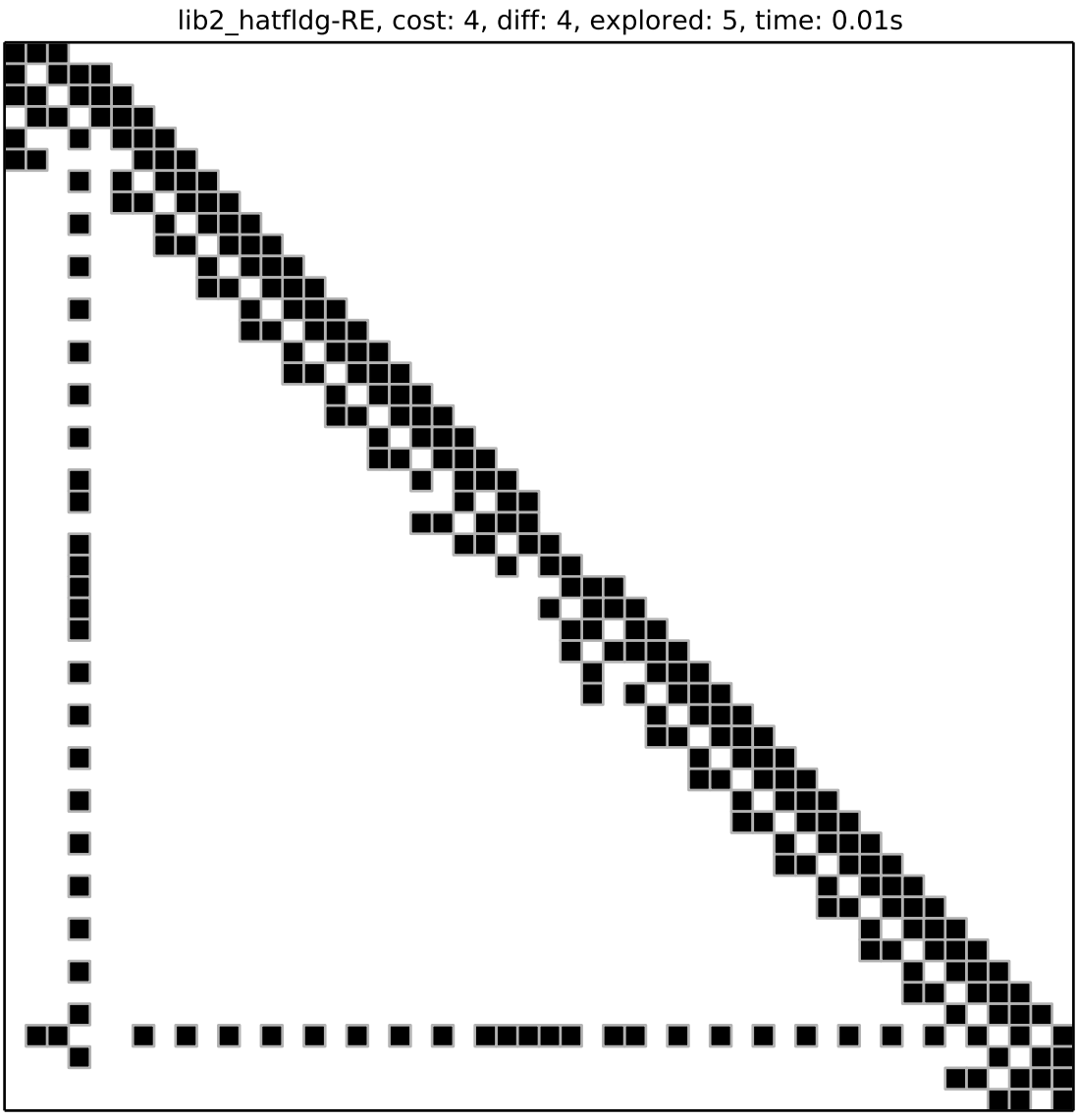


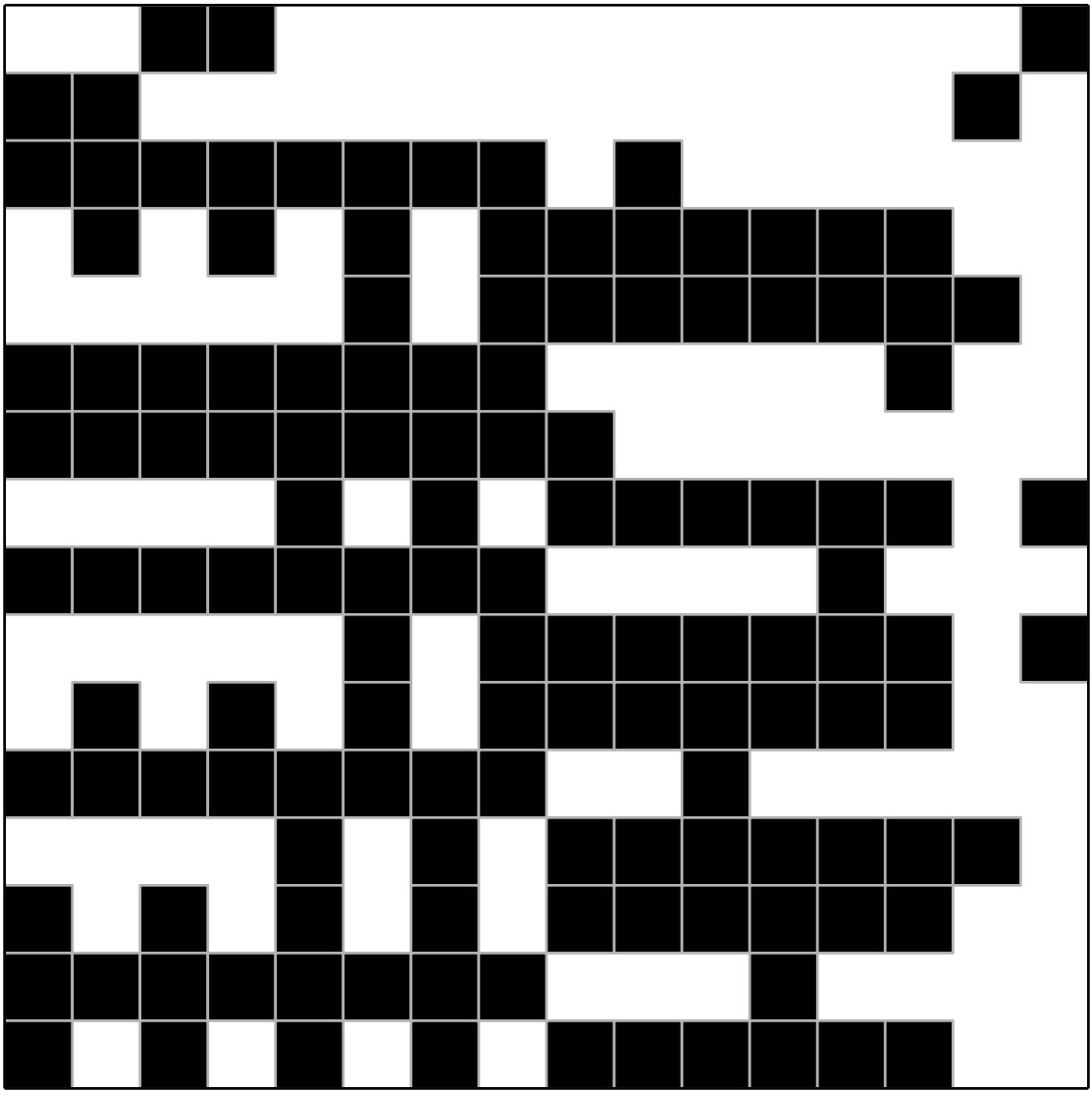

lib2_hatfldg-IN 50x50 (263) con: 25, var: 25


lib2_hatfldg-IN, cost: 4, diff: 4, explored: 5, time: 0.00s


lib2_hatfldg-RE 50x50 (263) con: 25, var: 25


lib2_hatfldg-RE, cost: 4, diff: 4, explored: 5, time: 0.01s

lib2_heart8-00 16x16 (136) con: 8, var: 8



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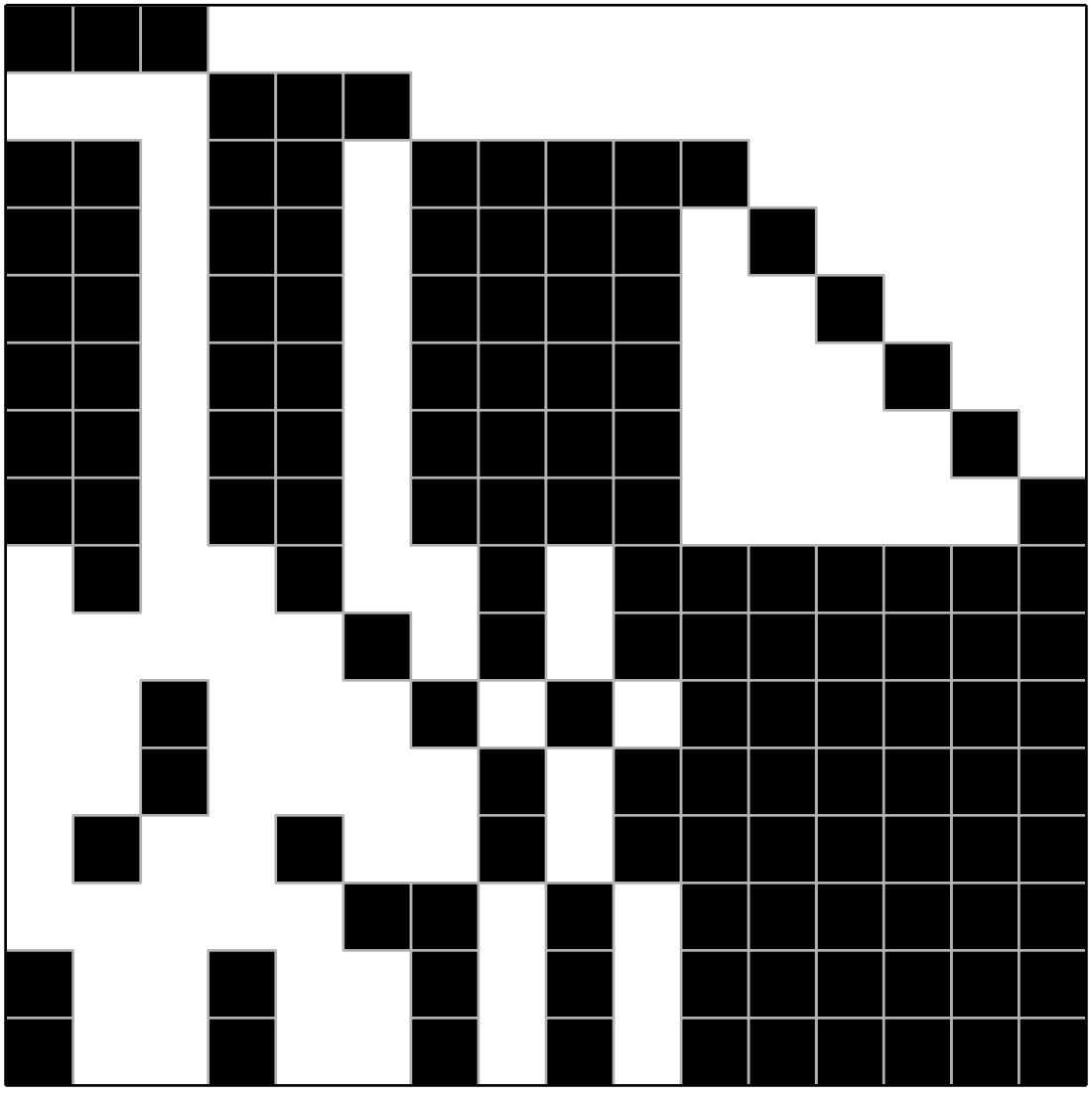
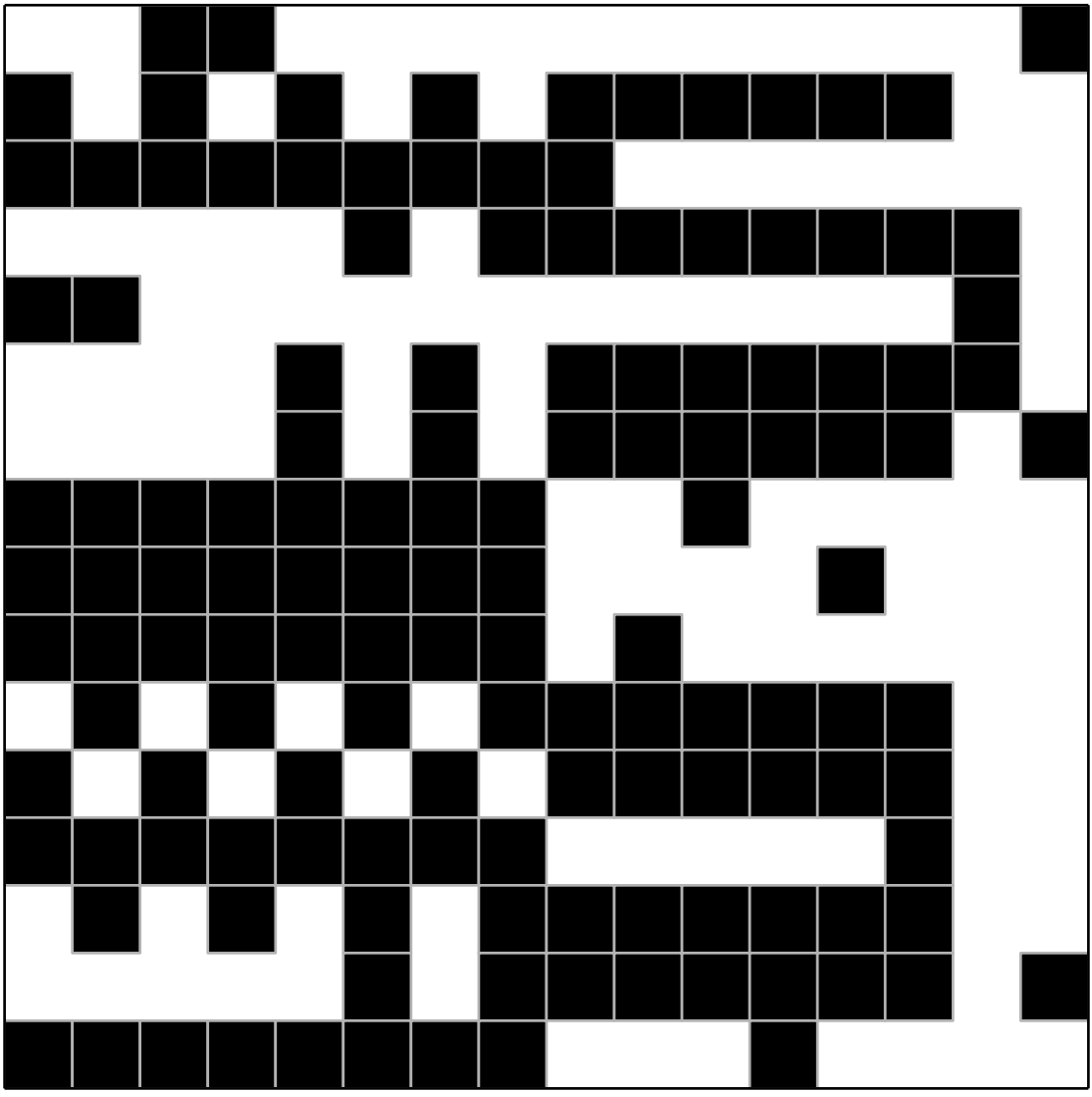


lib2_heart8-01 16x16 (136) con: 8, var: 8



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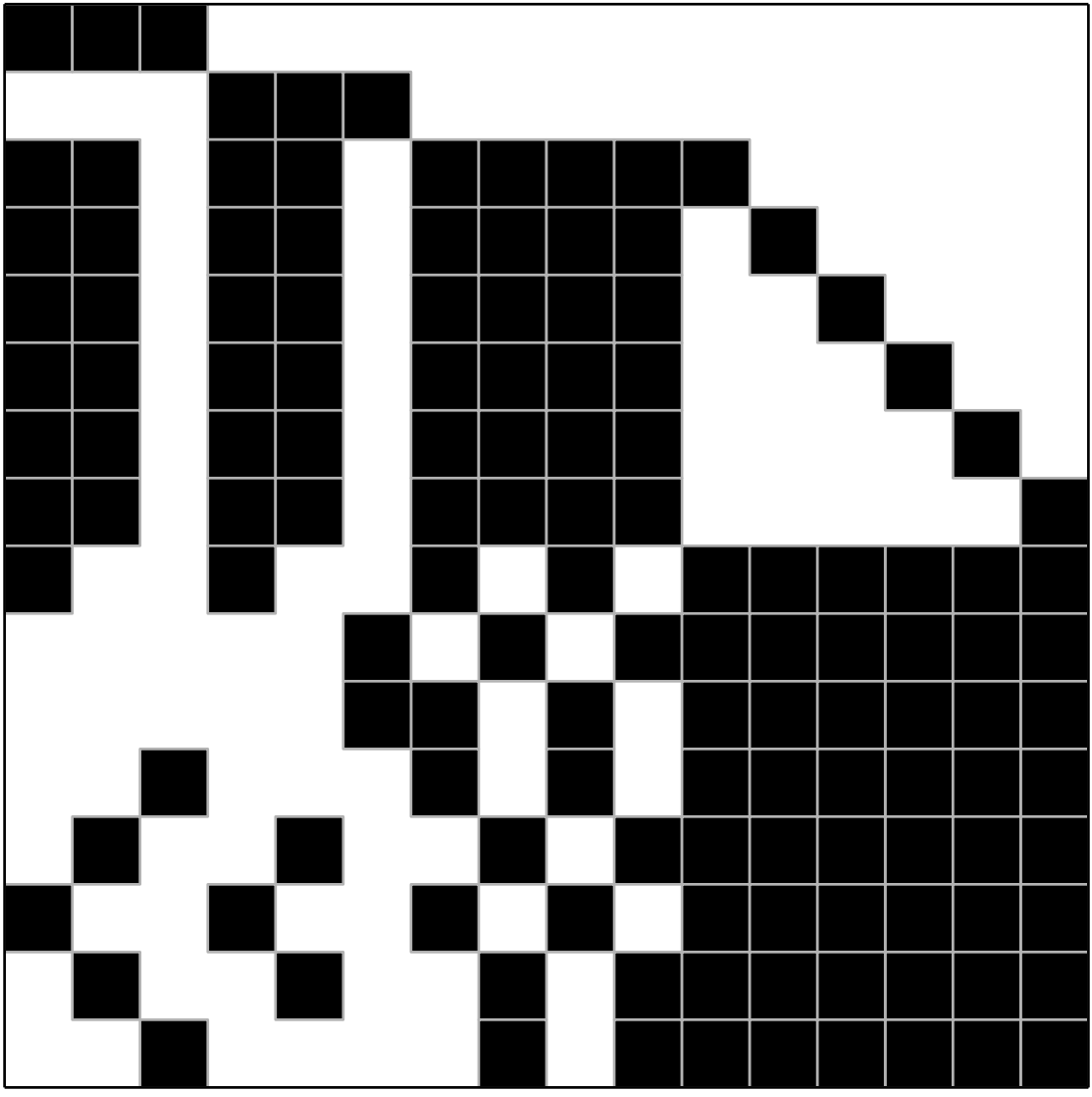
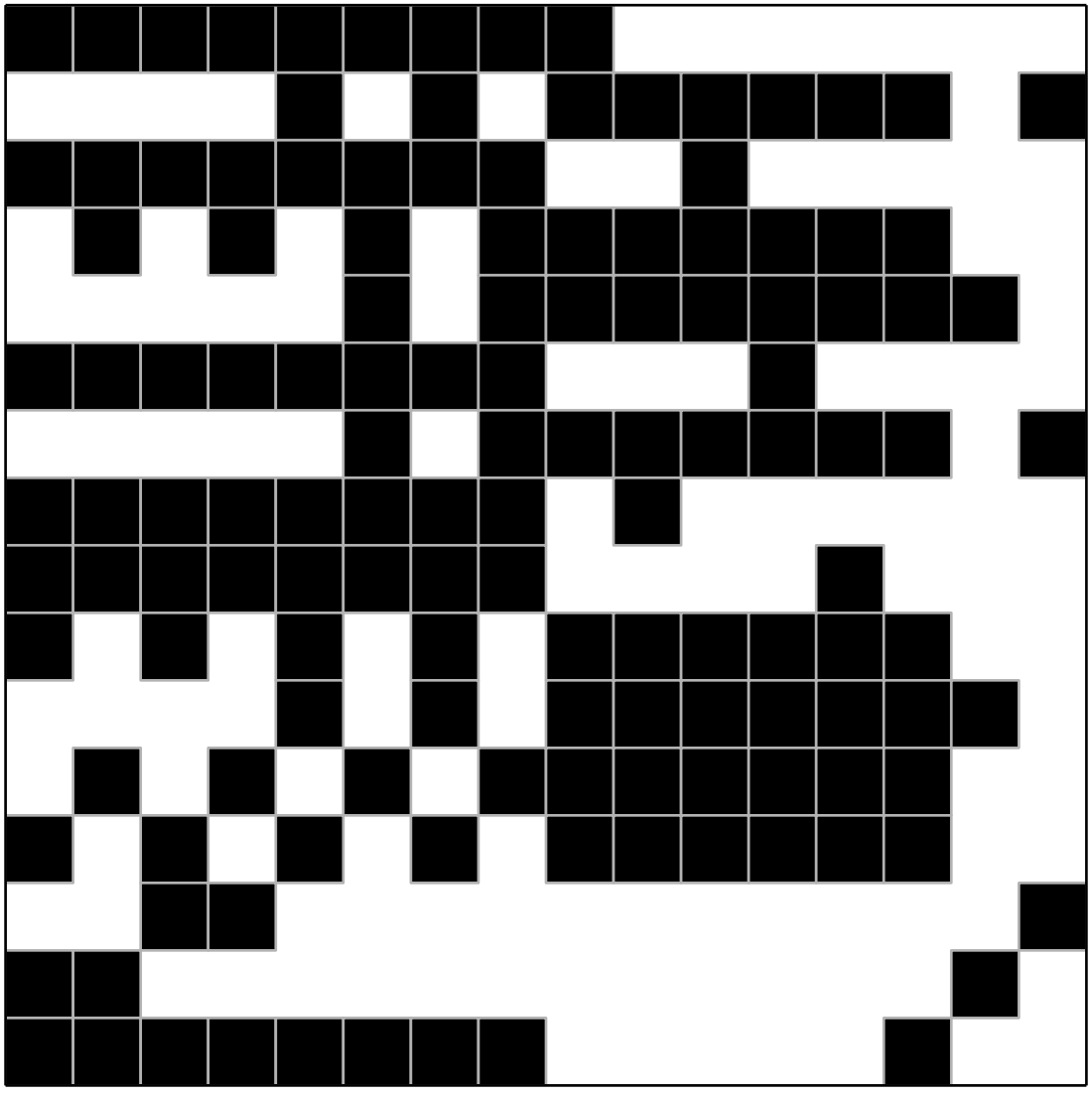
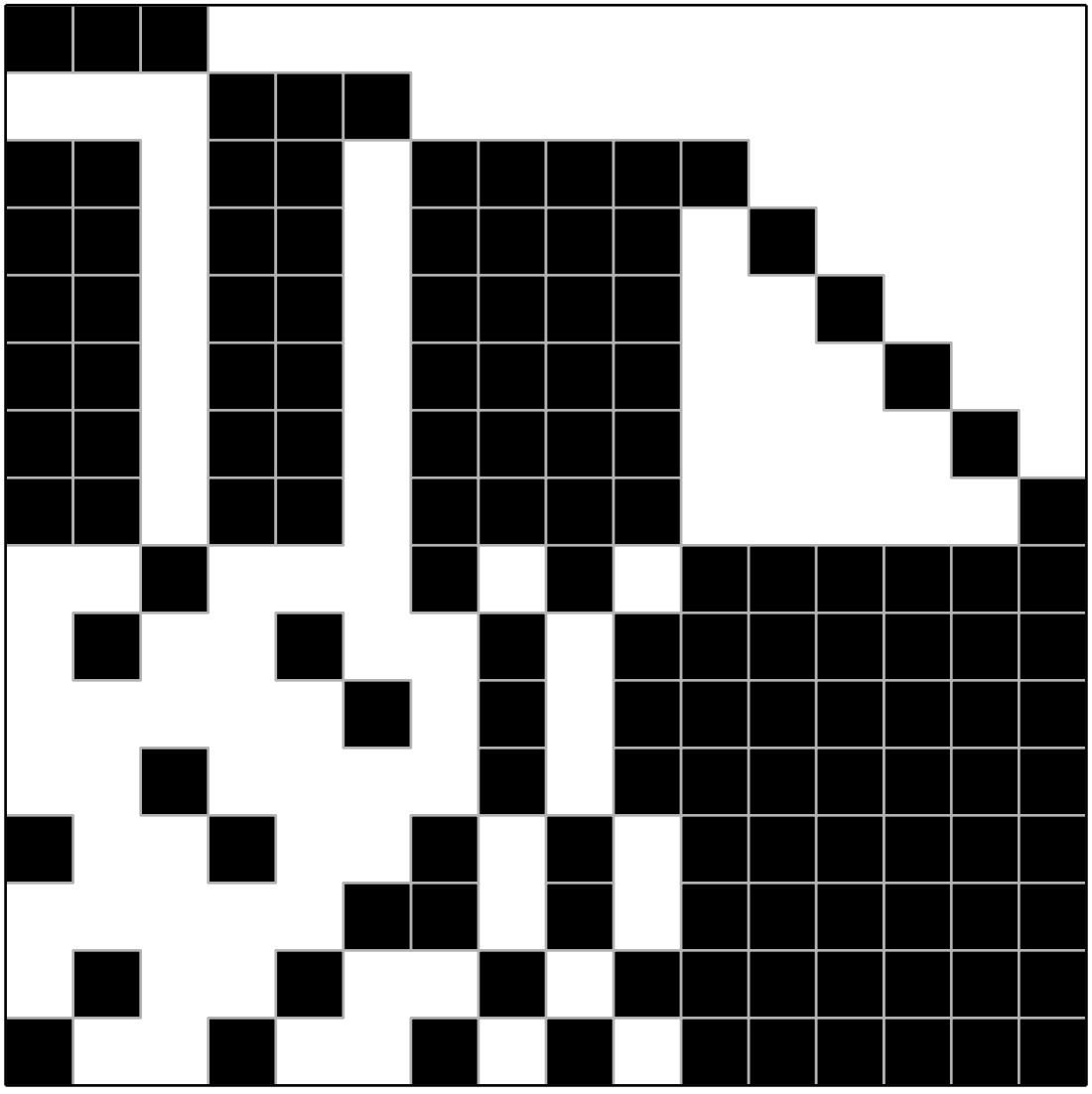


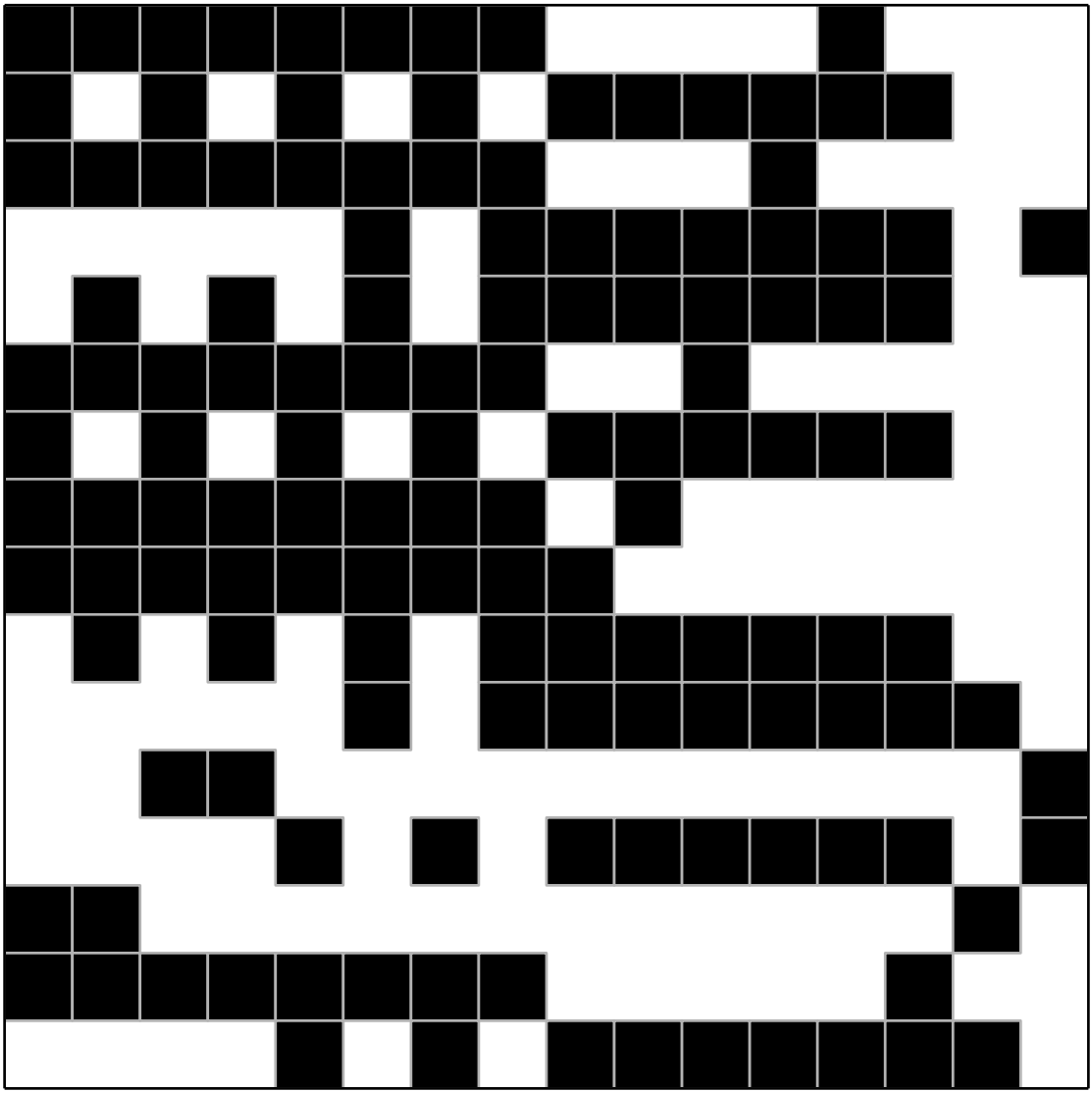
lib2_heart8-02 16x16 (136) con: 8, var: 8



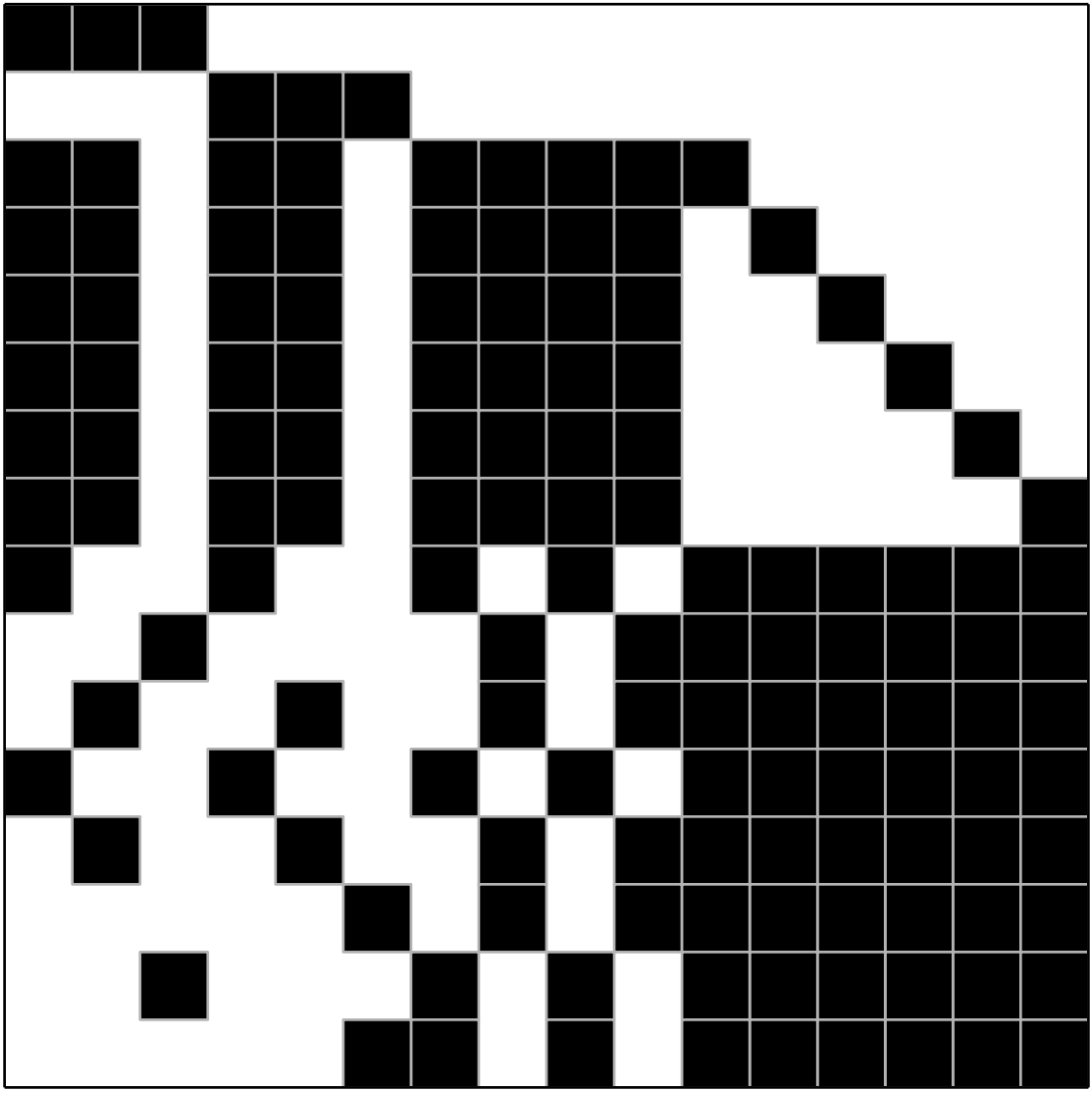
lib2_heart8-02, cost: 8, diff: 8, explored: 5, time: 0.00s



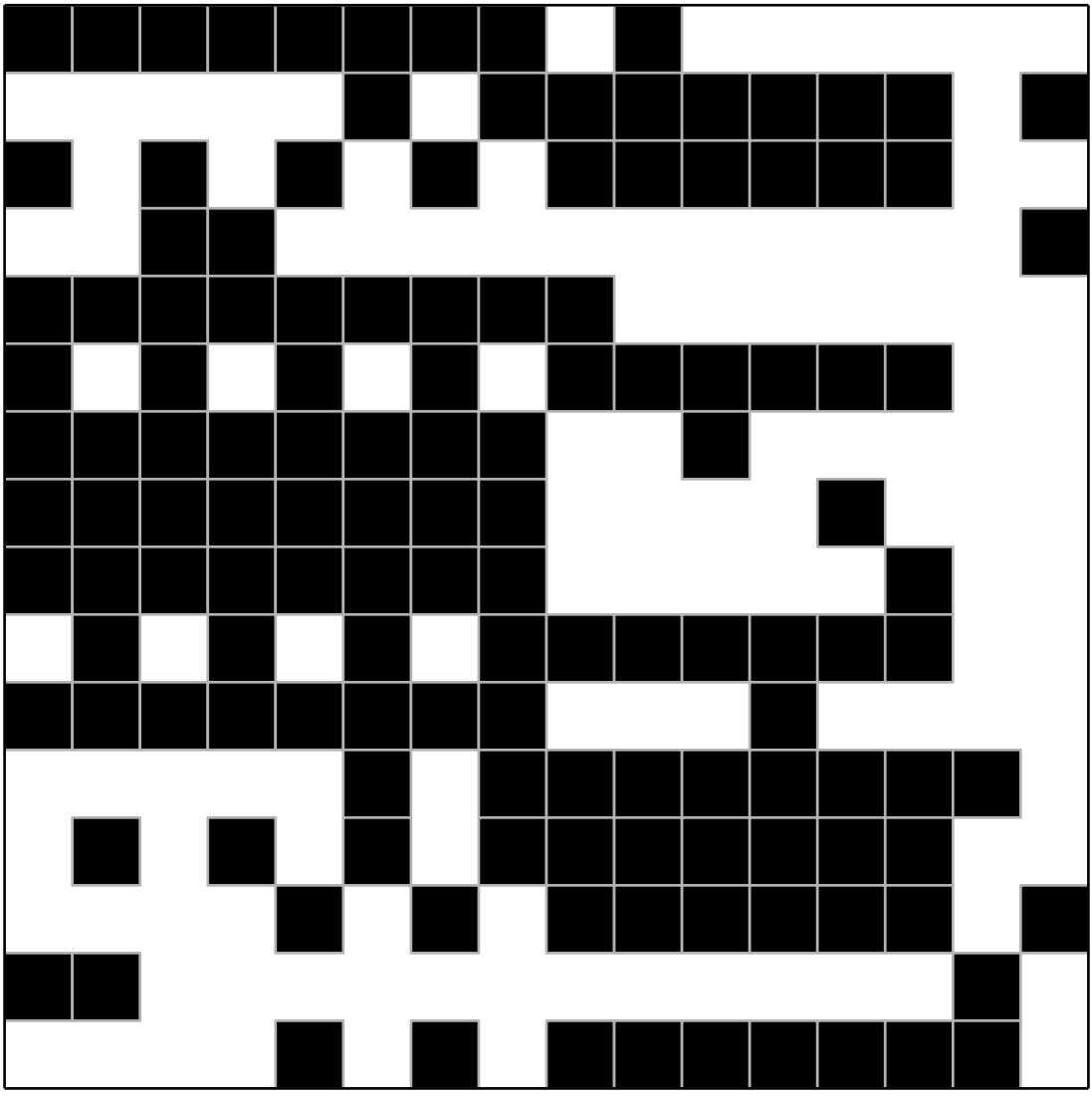
lib2_heart8-03 16x16 (136) con: 8, var: 8



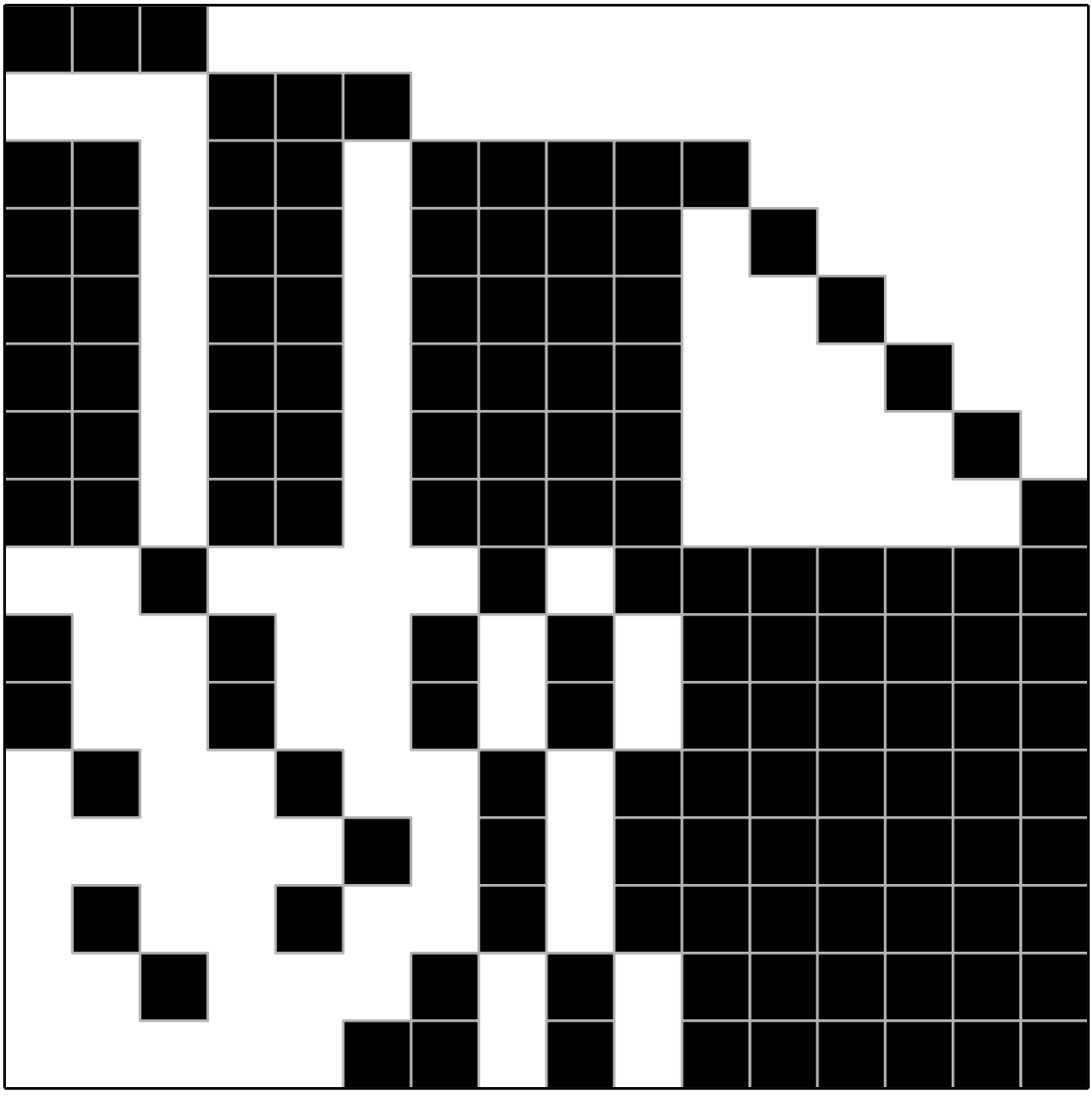
lib2_heart8-03, cost: 8, diff: 8, explored: 5, time: 0.00s



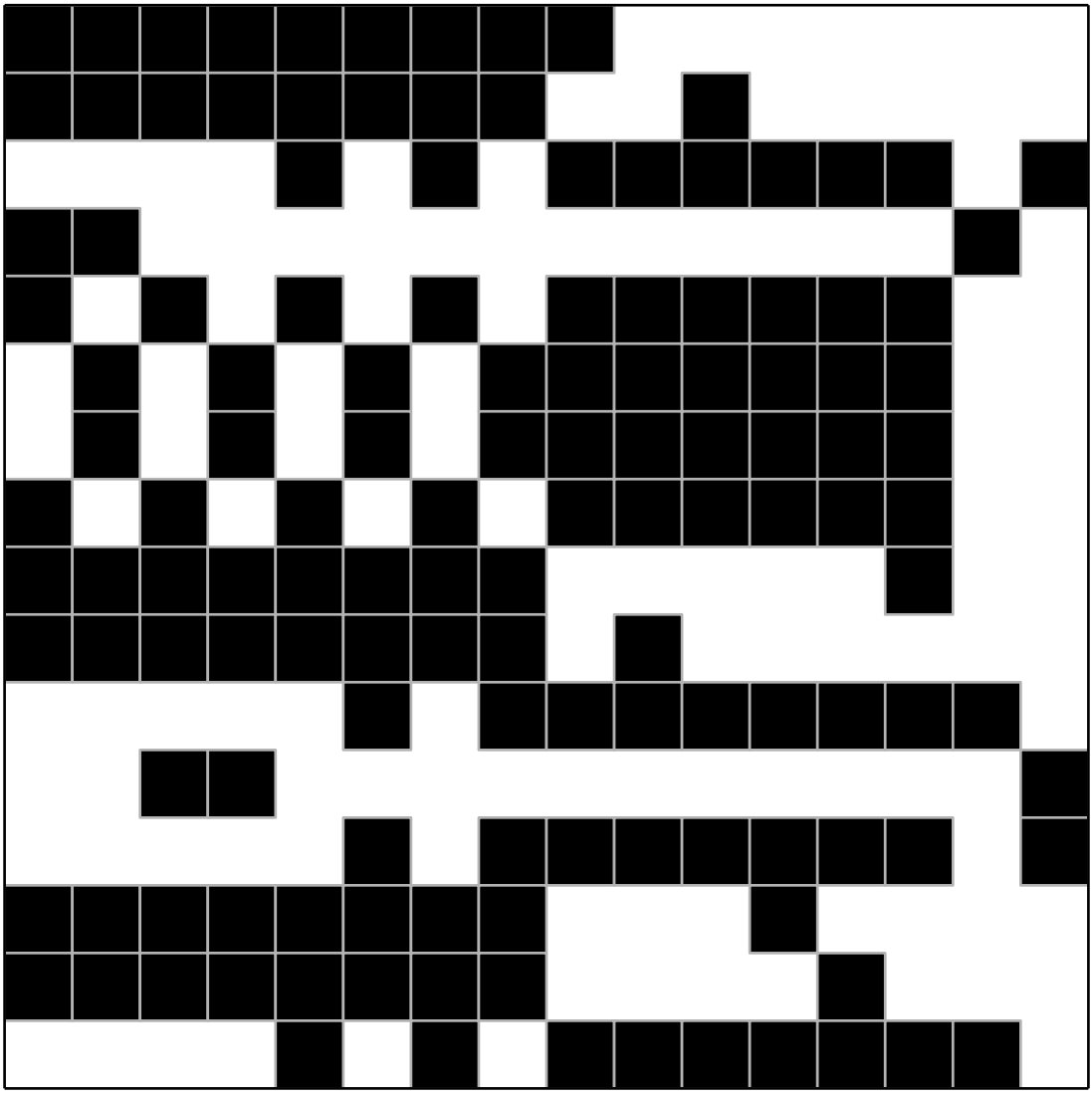
lib2_heart8-04 16x16 (136) con: 8, var: 8



lib2_heart8-04, cost: 8, diff: 8, explored: 5, time: 0.00s



lib2_heart8-05 16x16 (136) con: 8, var: 8



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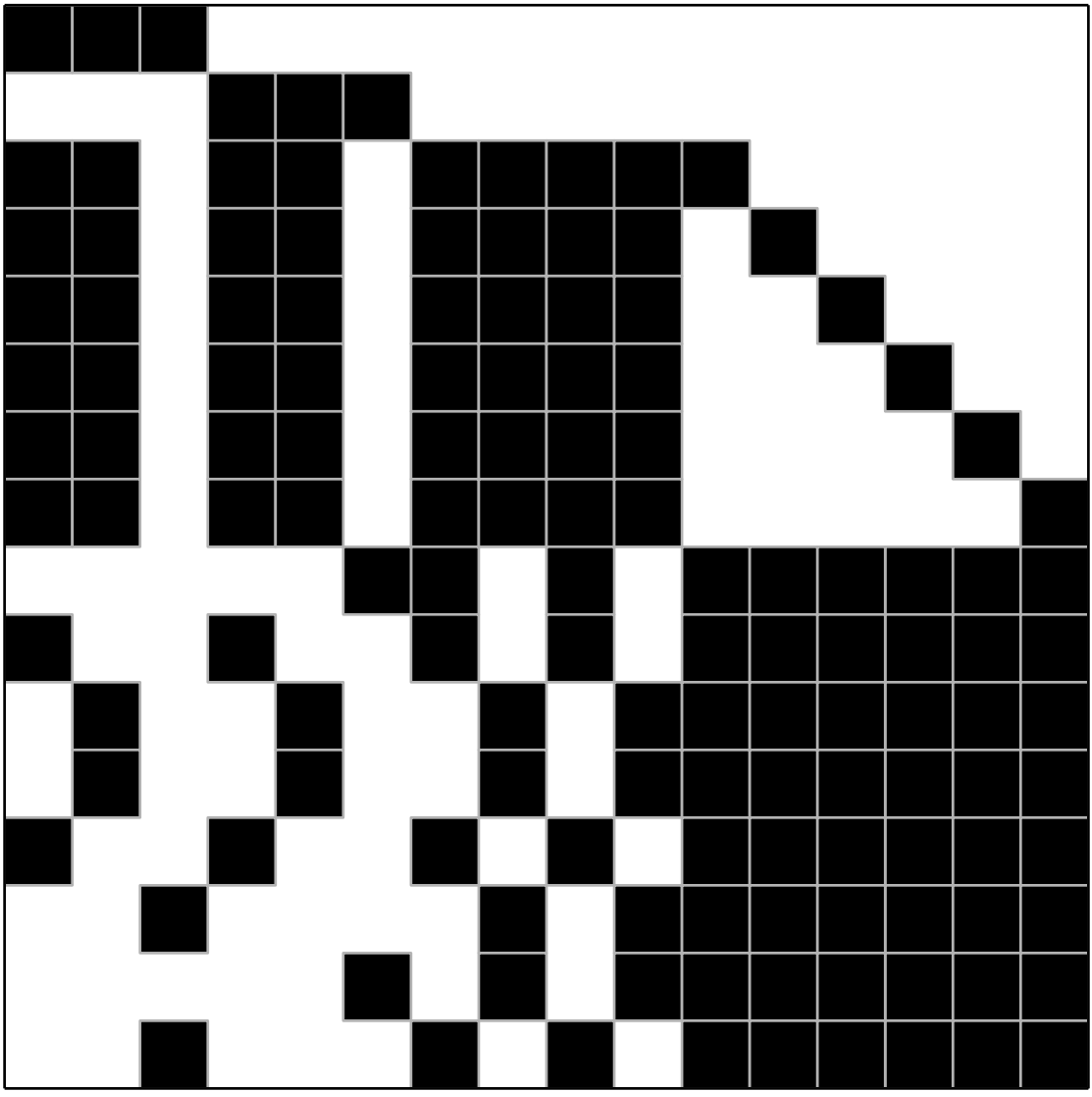
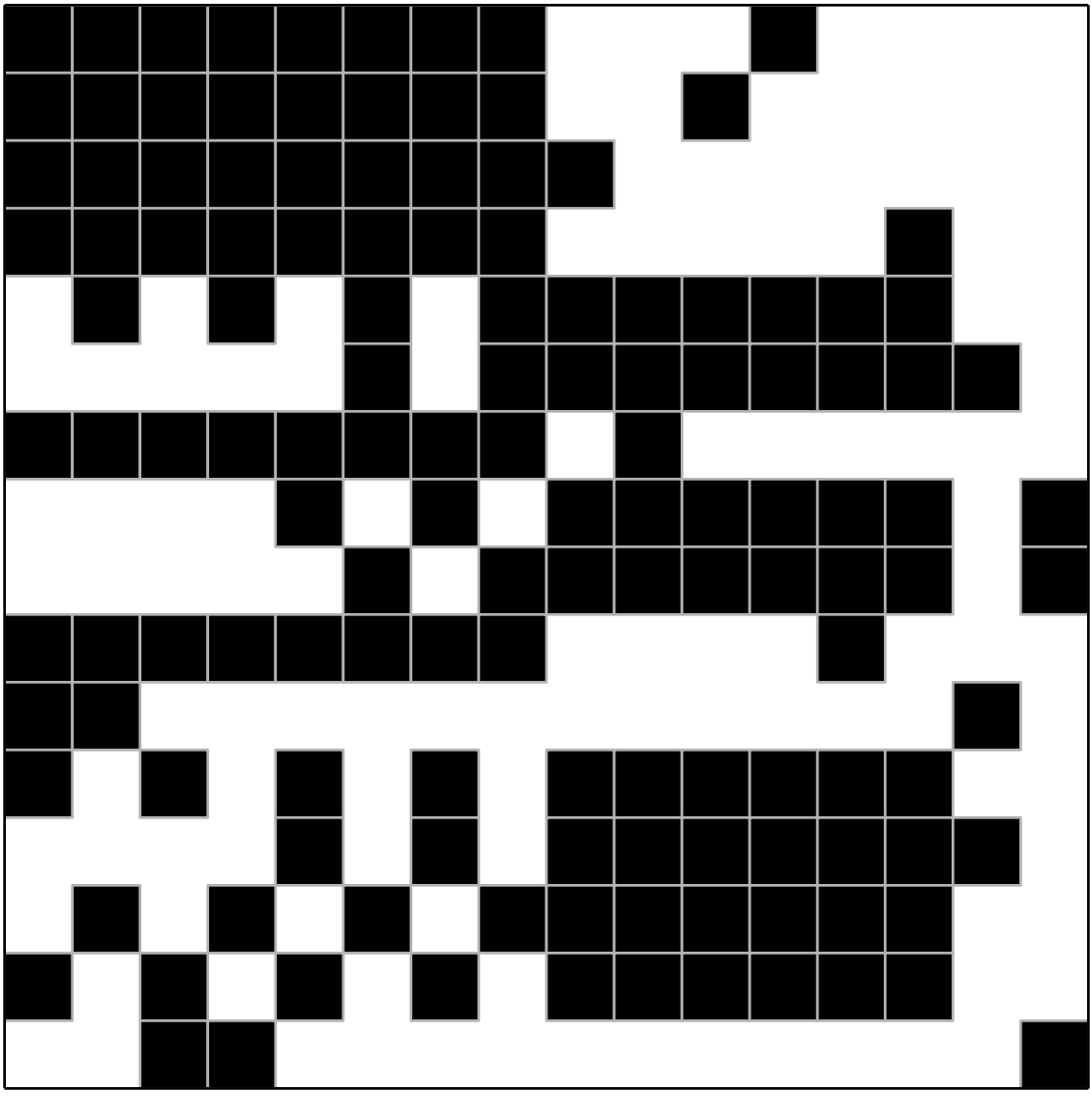
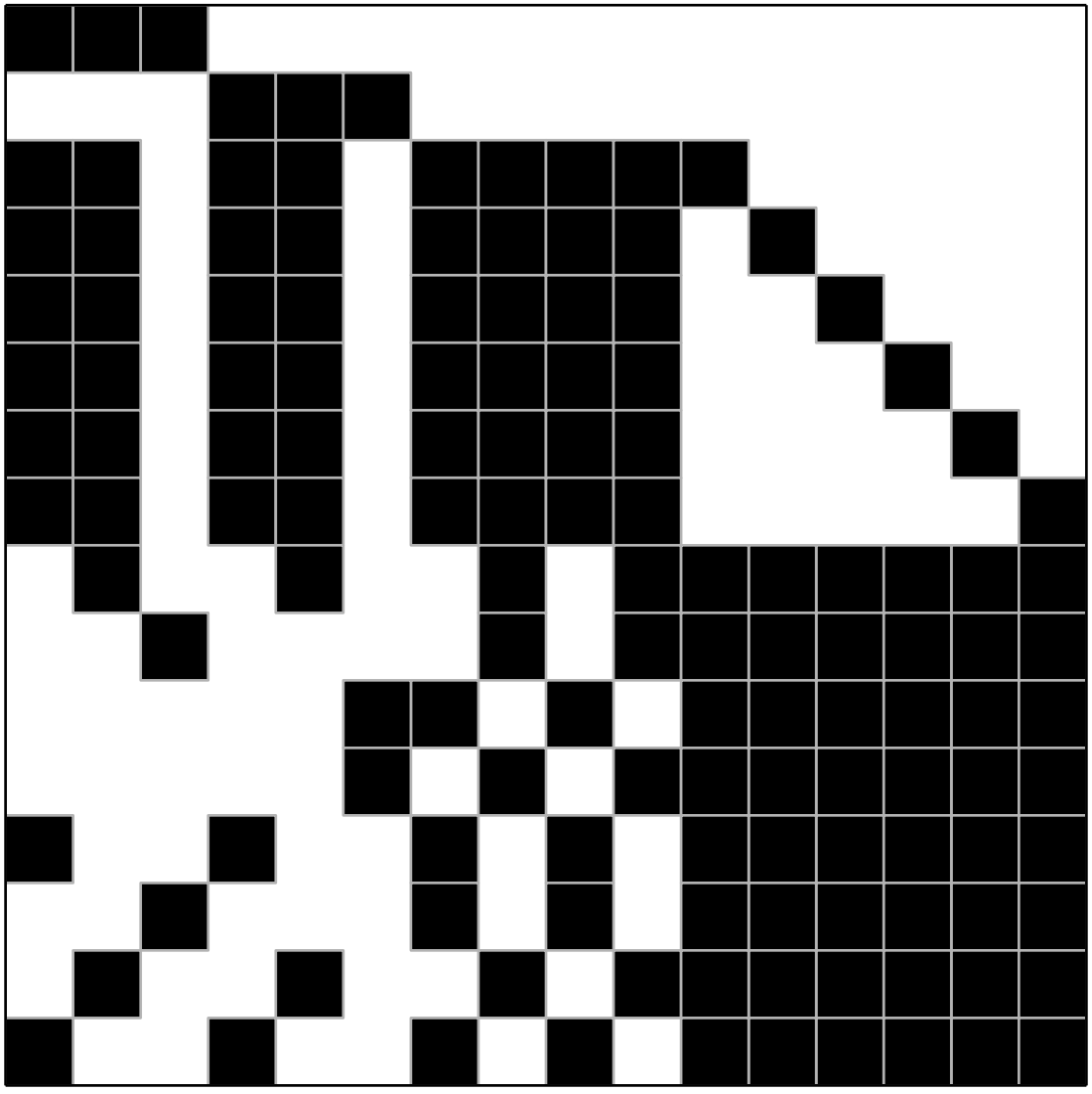


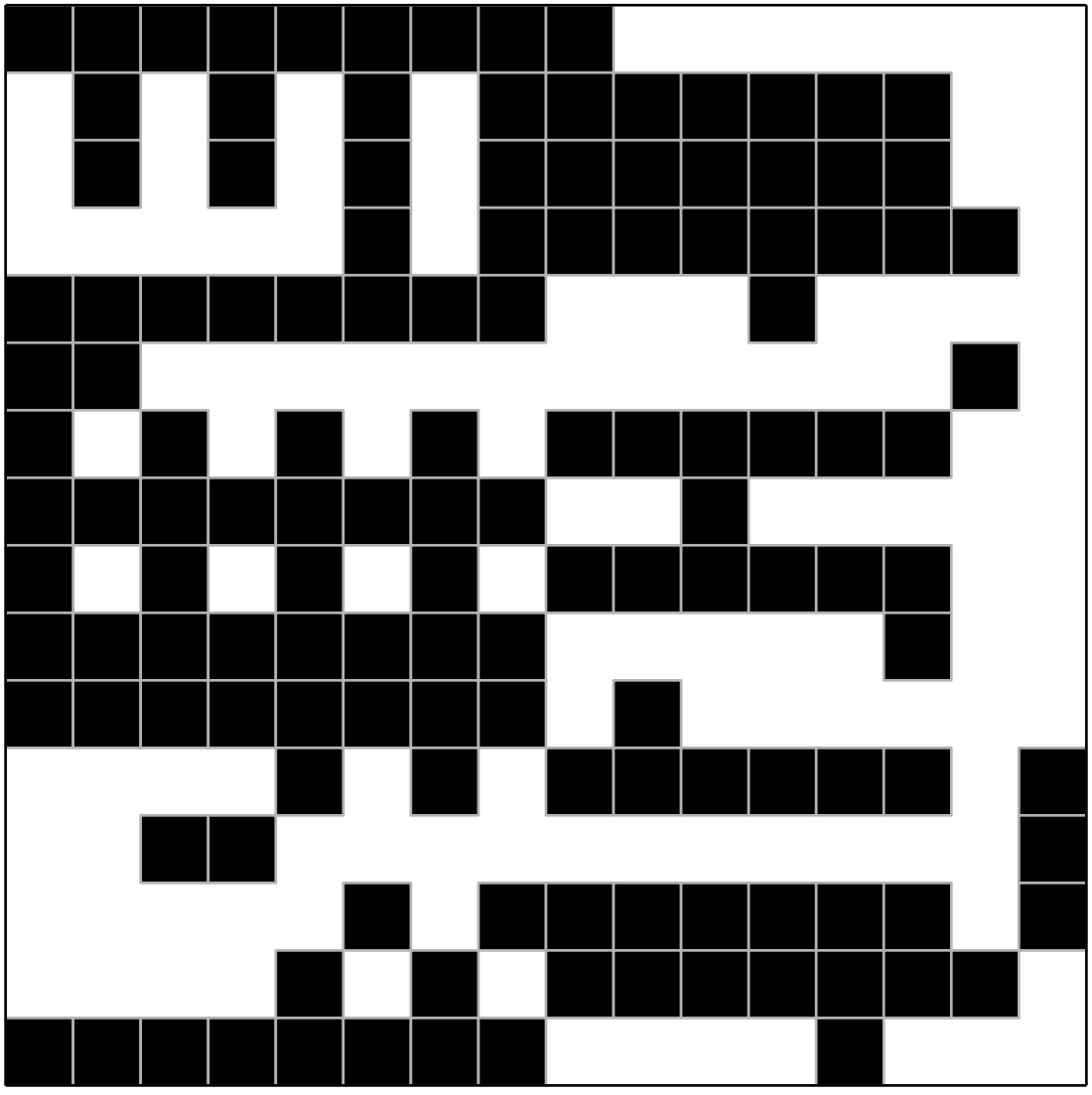
lib2_heart8-06 16x16 (136) con: 8, var: 8



lib2_heart8-06, cost: 8, diff: 8, explored: 5, time: 0.00s



lib2_heart8-07 16x16 (136) con: 8, var: 8



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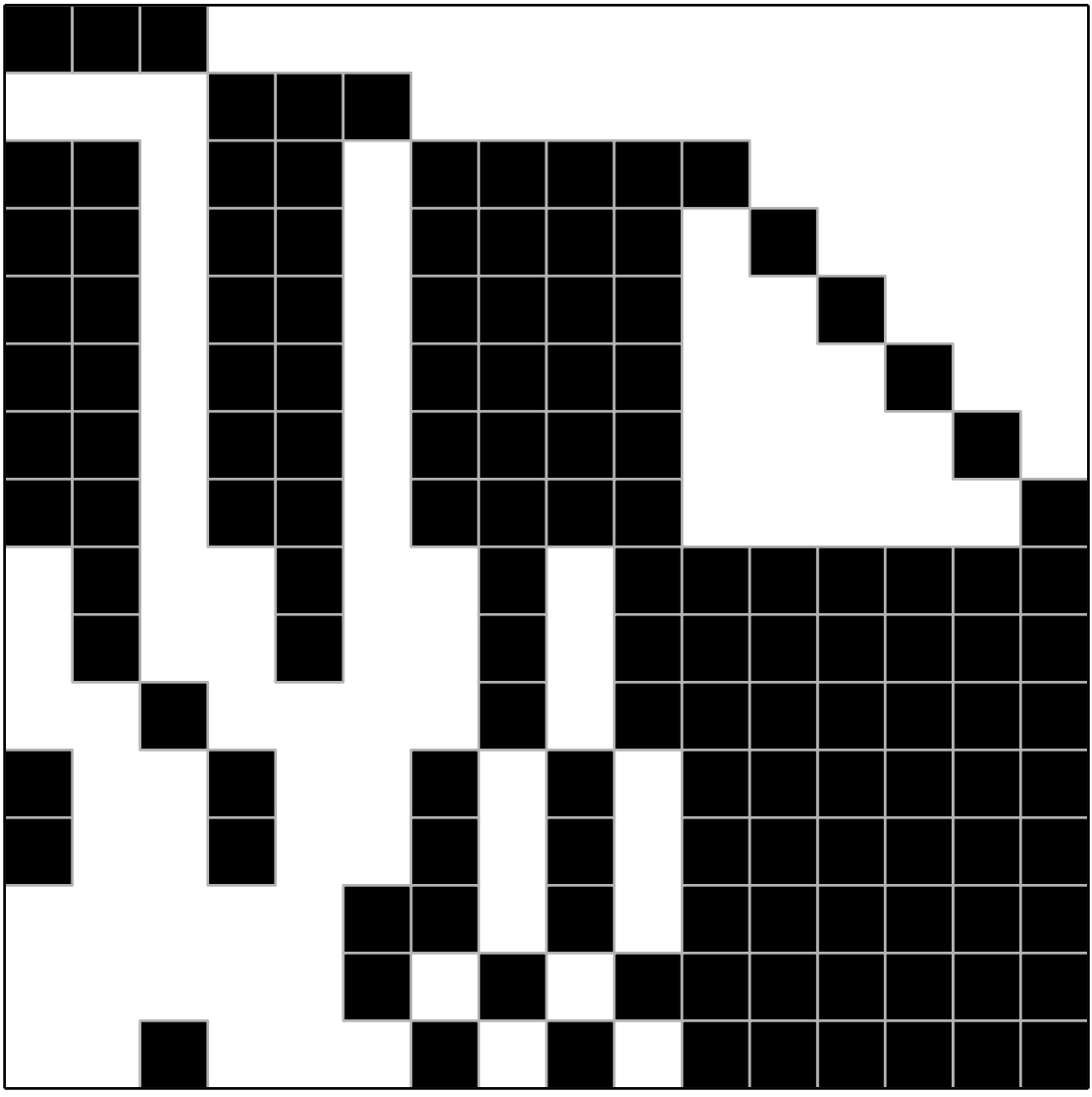
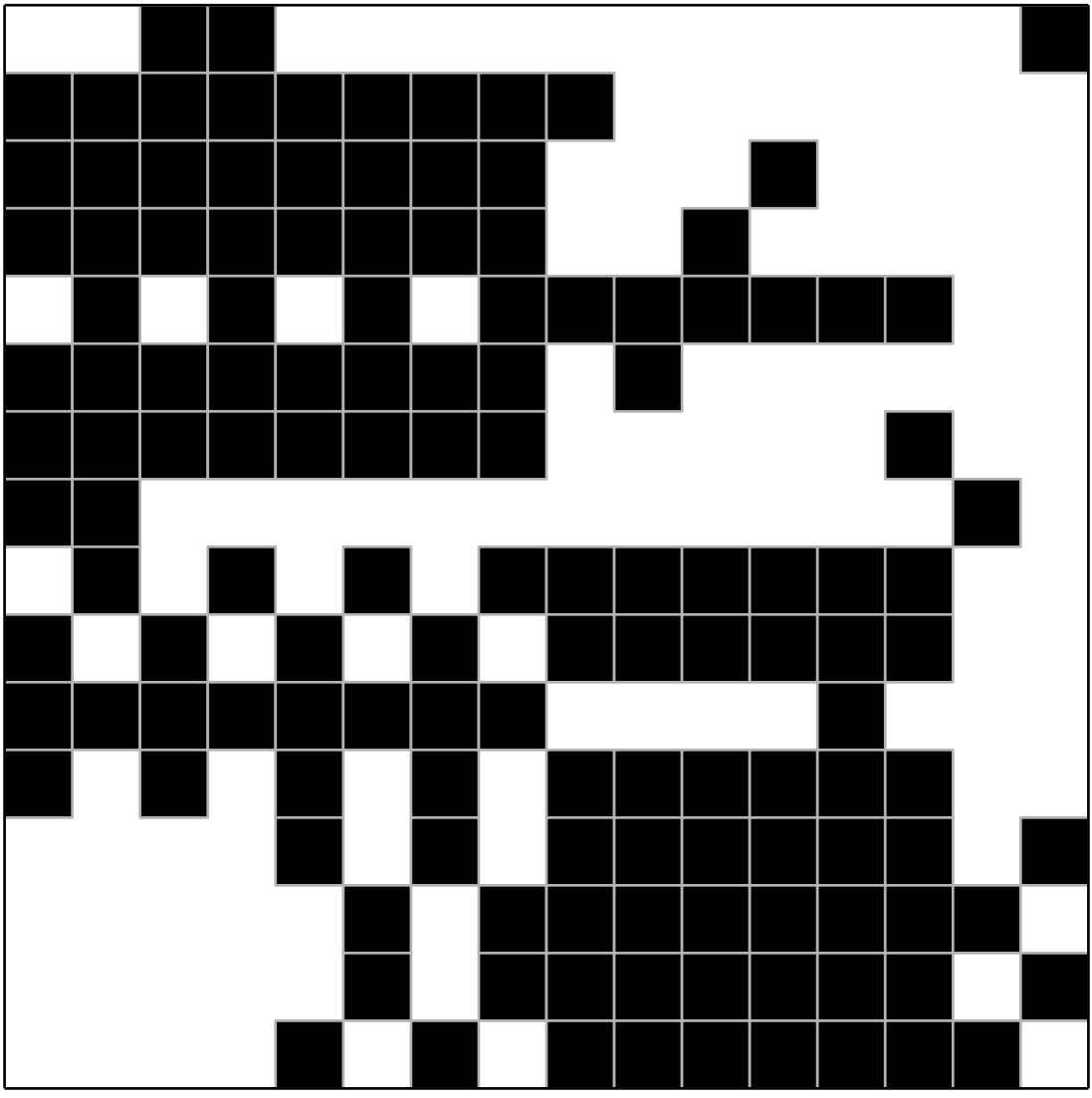


lib2_heart8-08 16x16 (136) con: 8, var: 8



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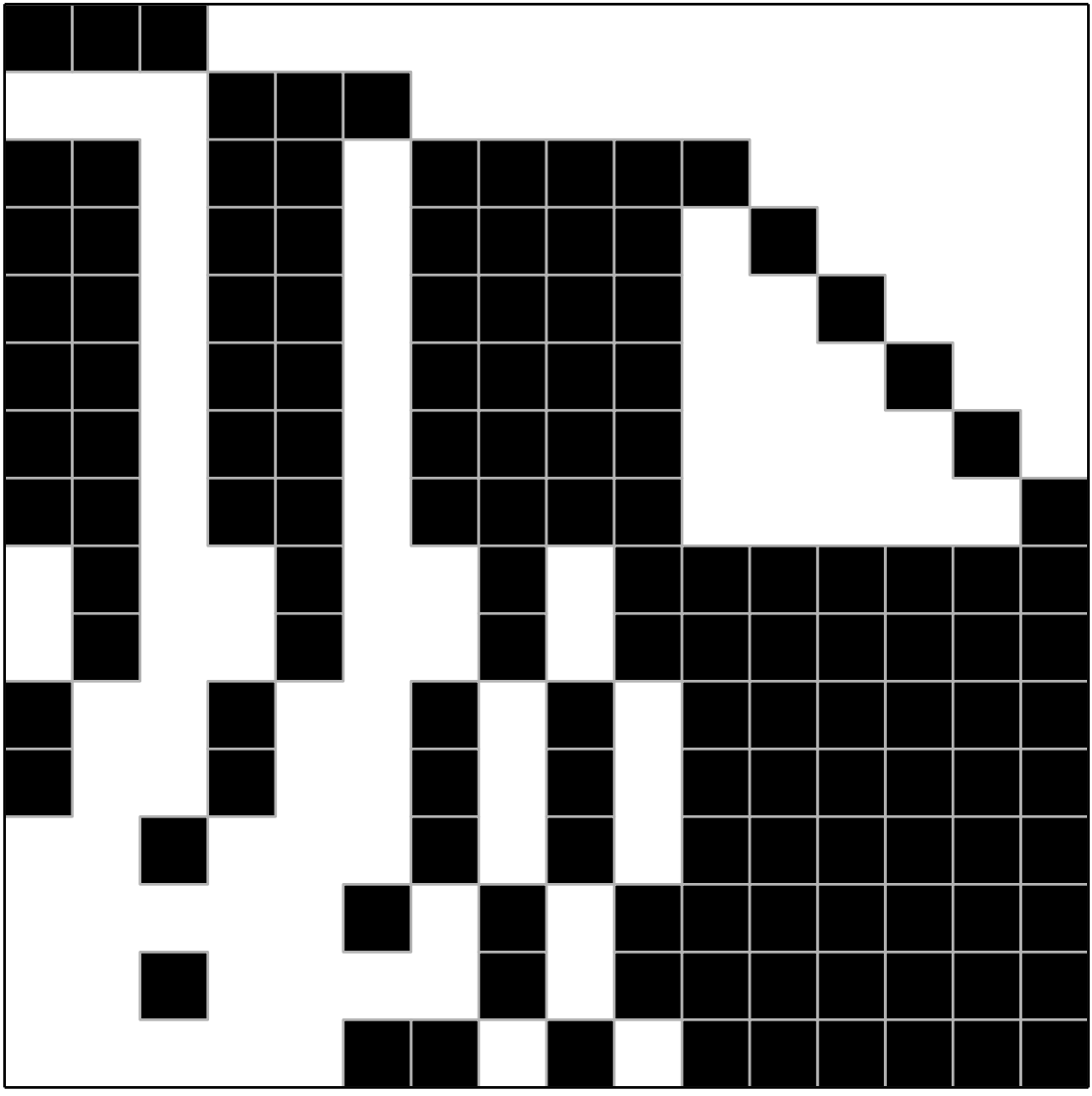
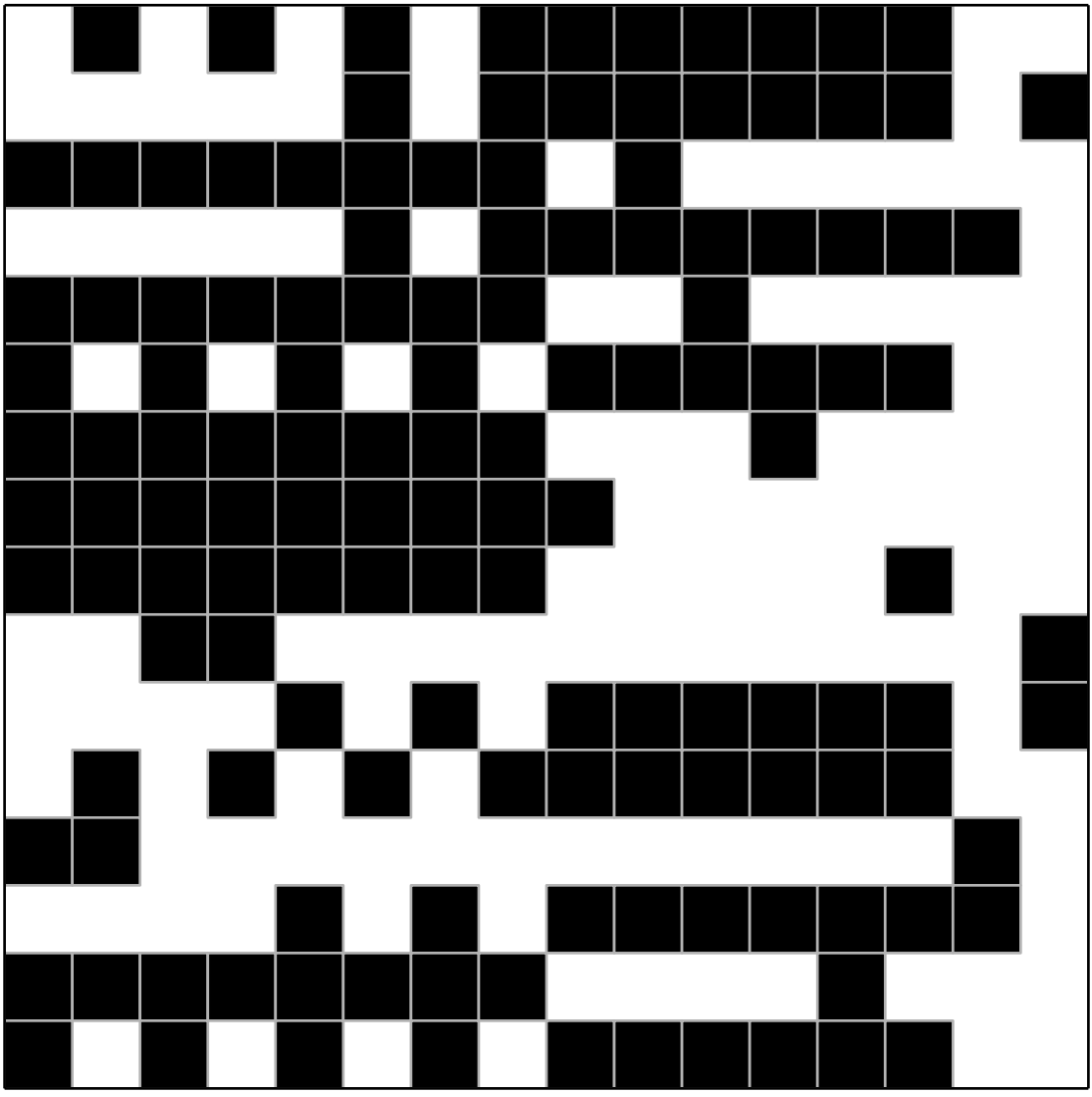


lib2_heart8-09 16x16 (136) con: 8, var: 8



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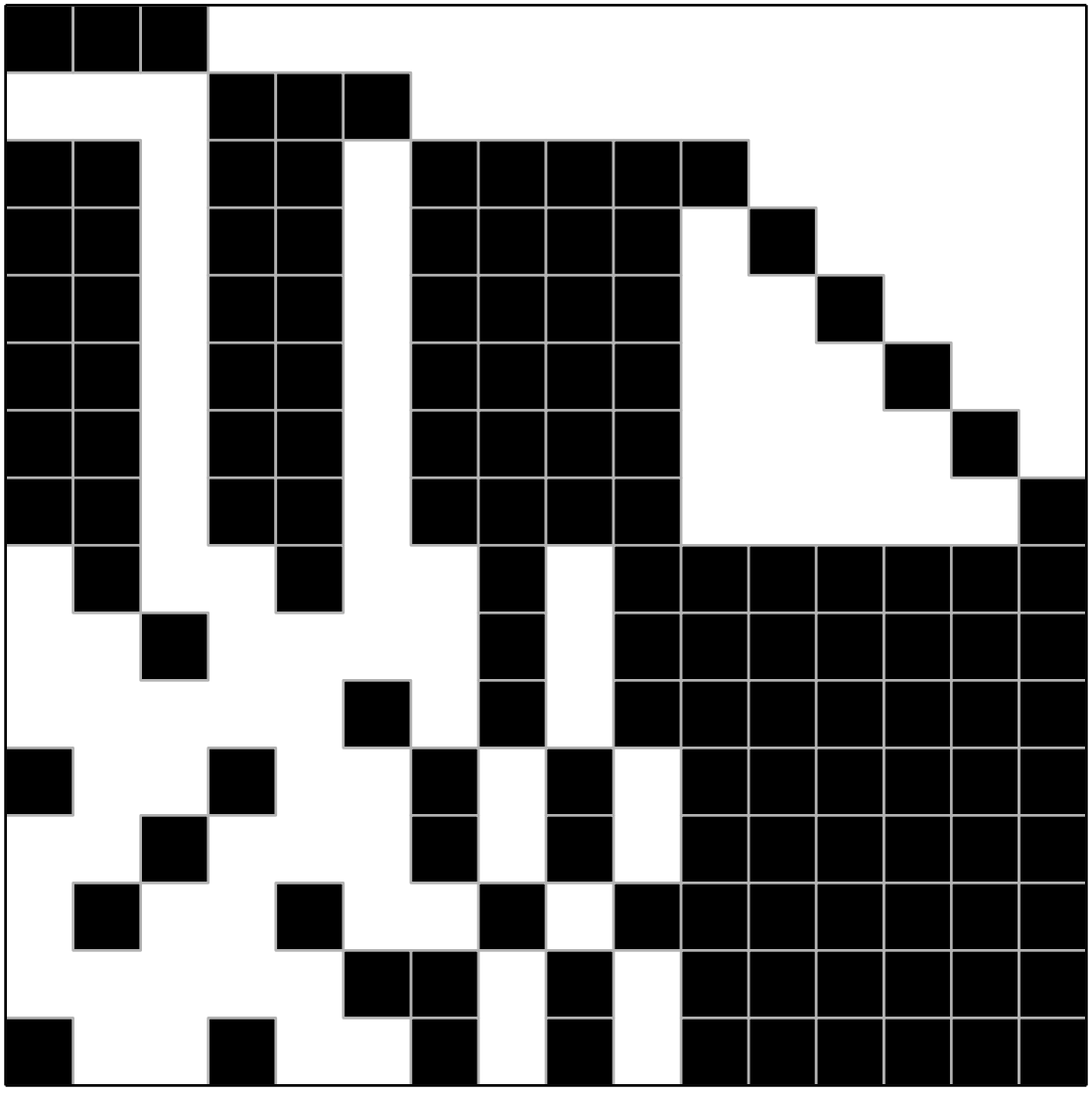
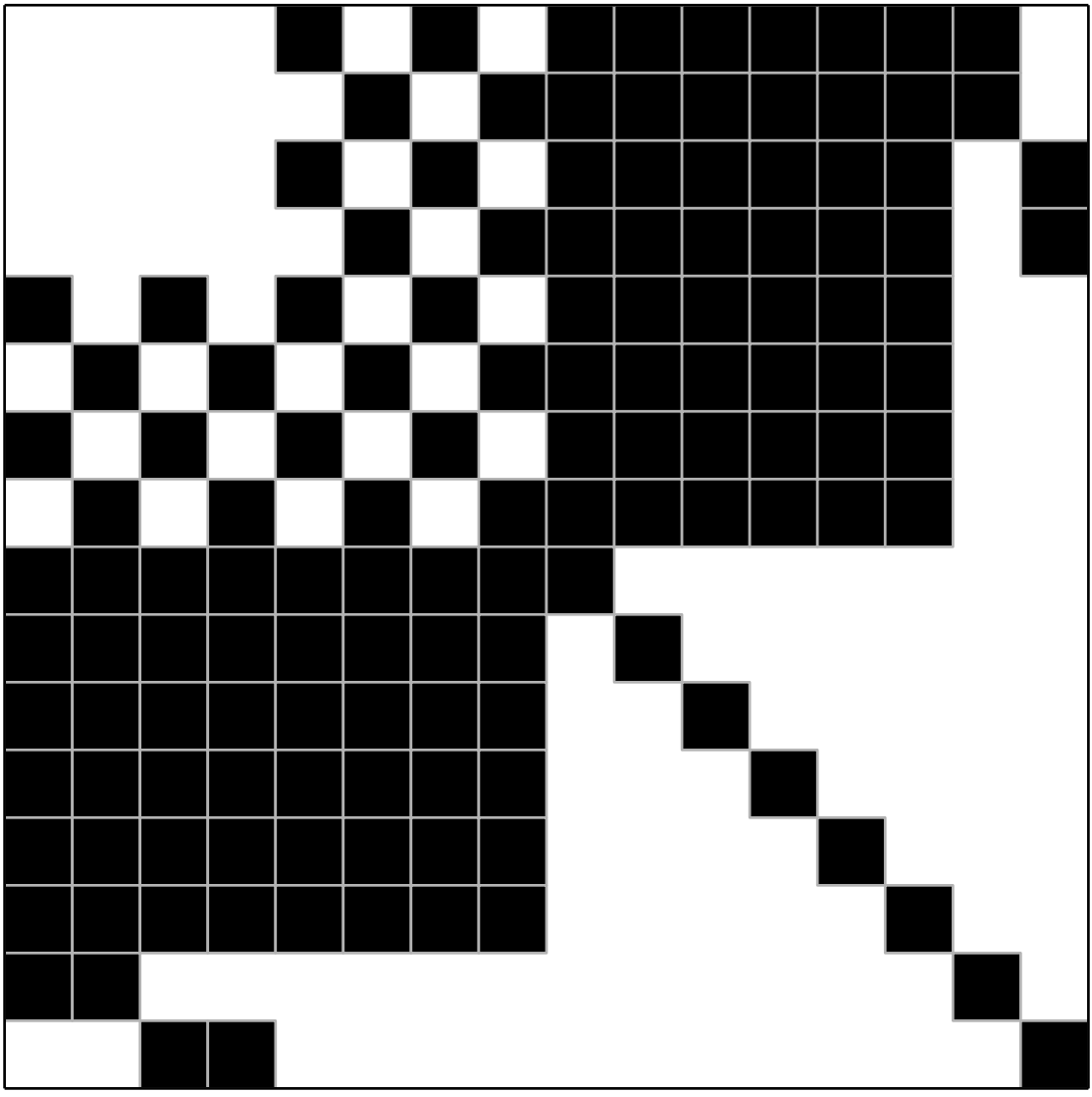
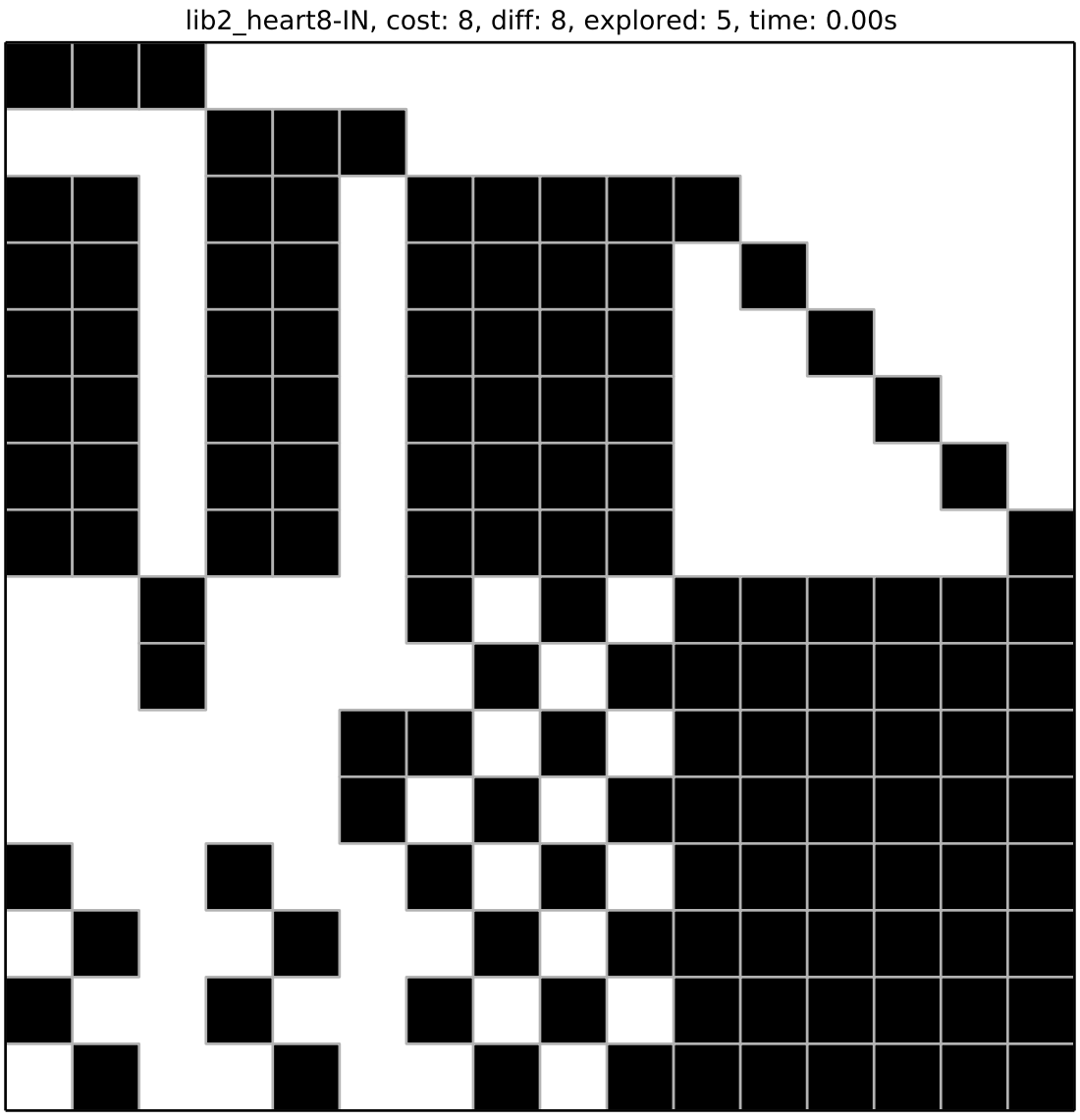


lib2_heart8-IN 16x16 (136) con: 8, var: 8

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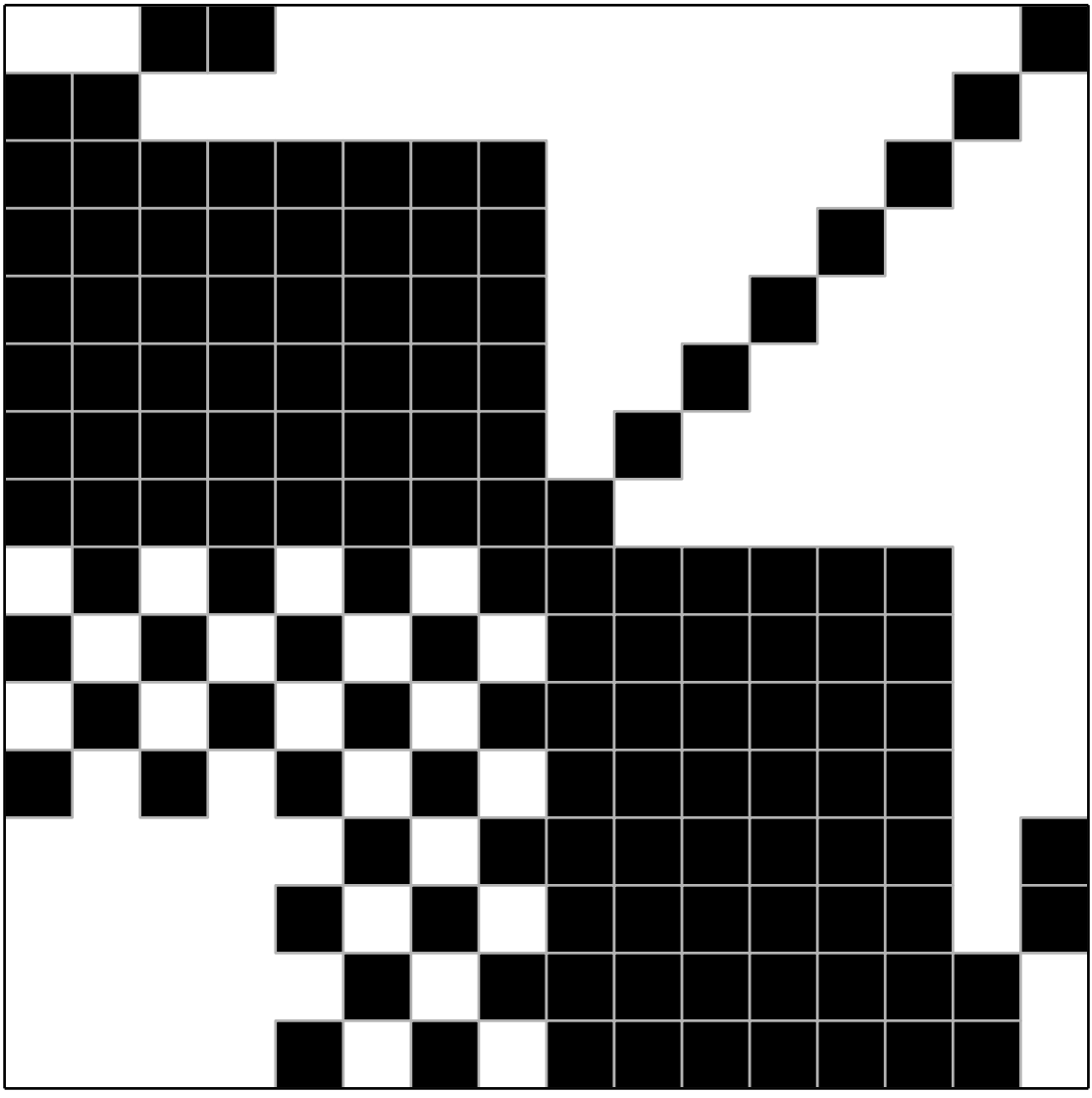
lib2_heart8-RE 16x16 (136) con: 8, var: 8



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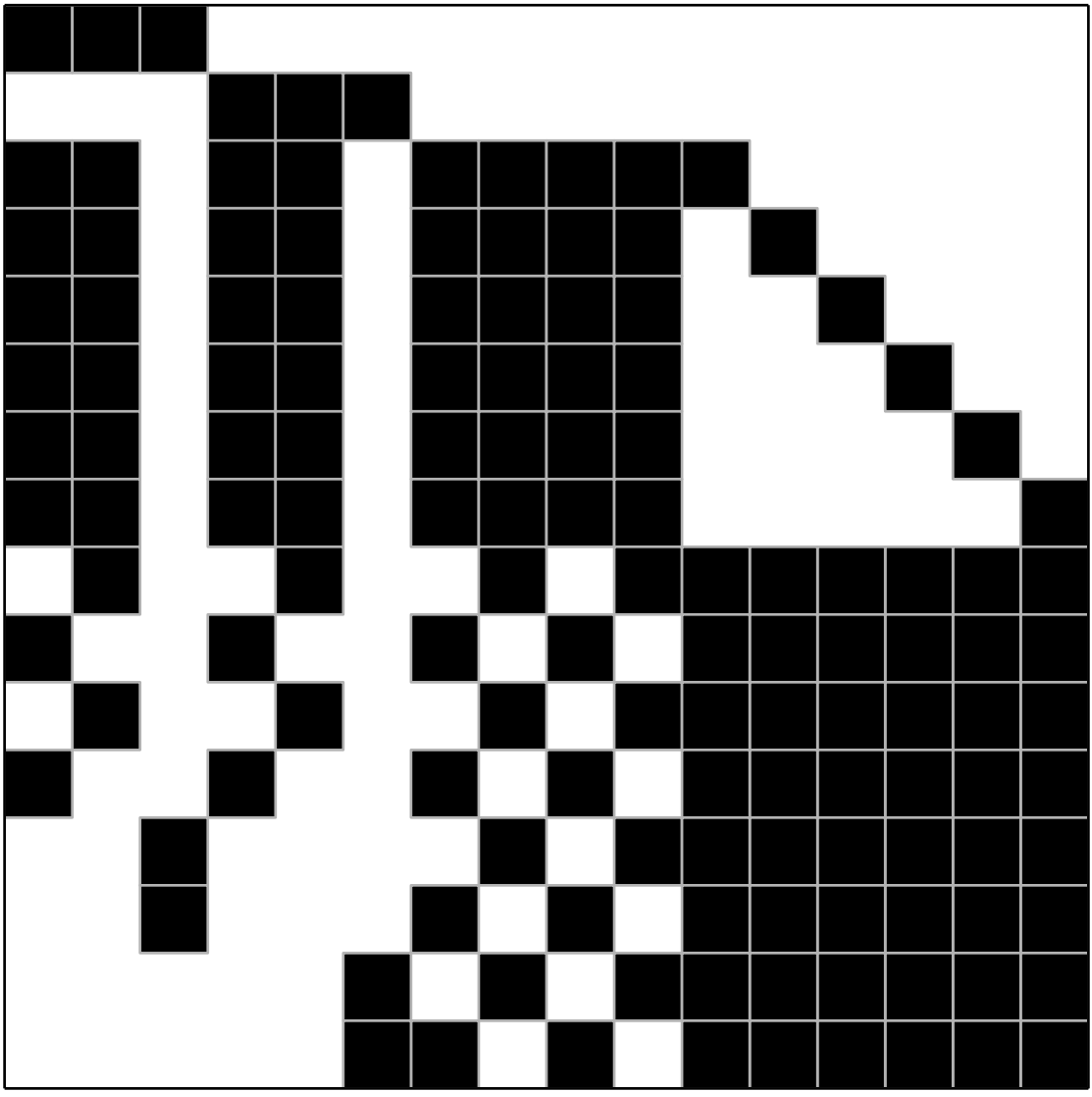
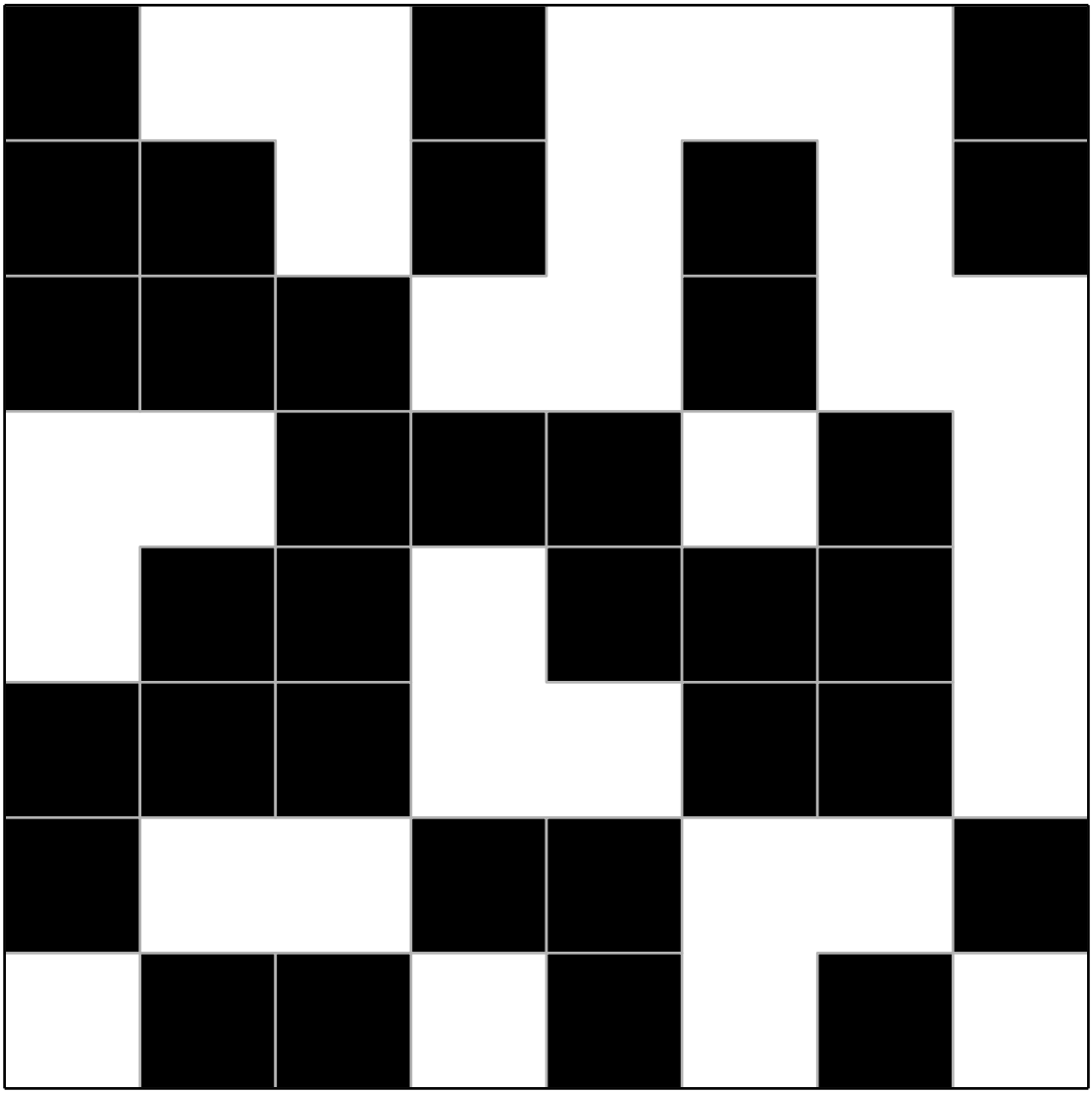


lib2_hs047-00 8x8 (34) con: 3, var: 5



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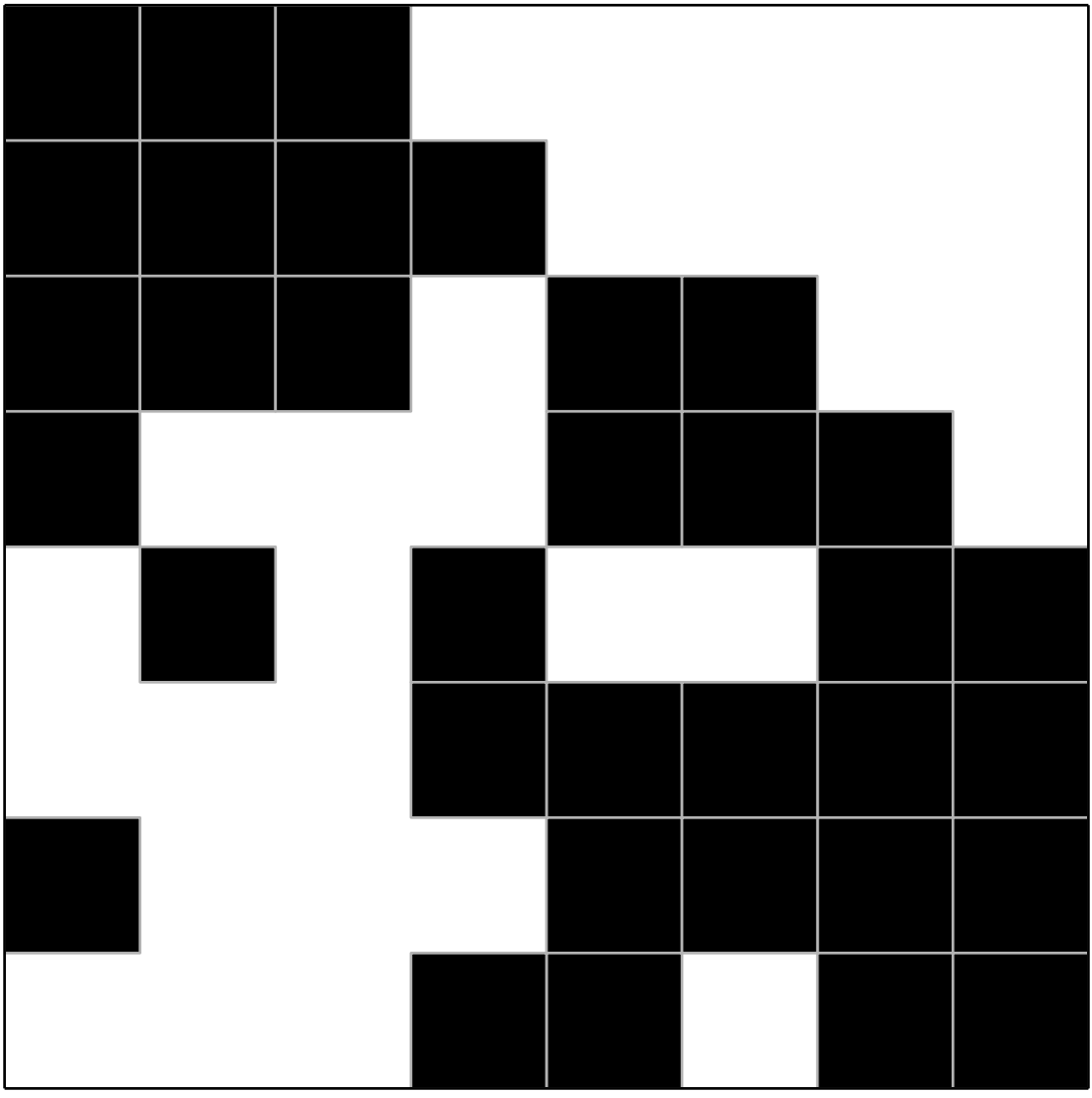
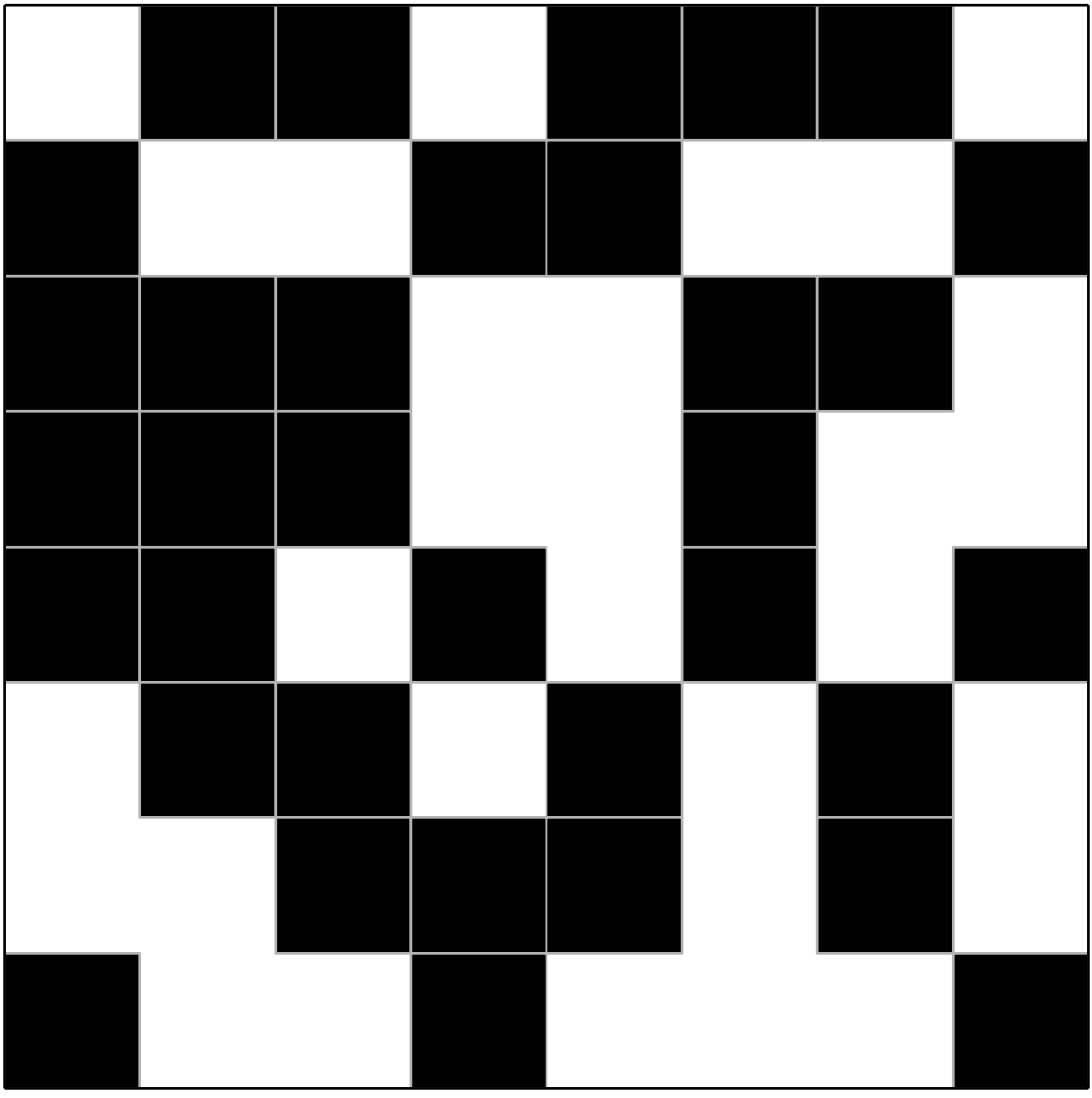
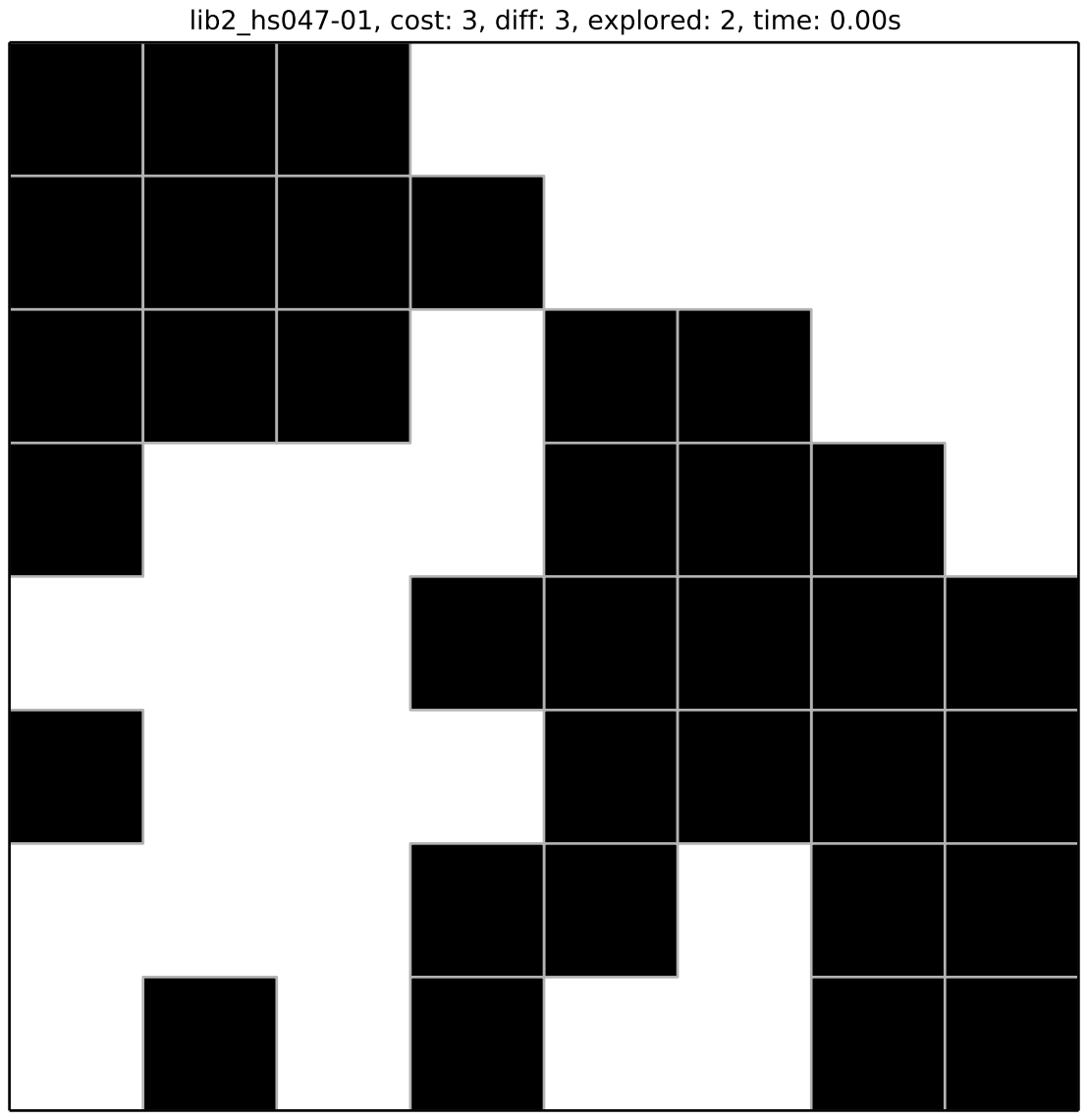


lib2_hs047-01 8x8 (34) con: 3, var: 5

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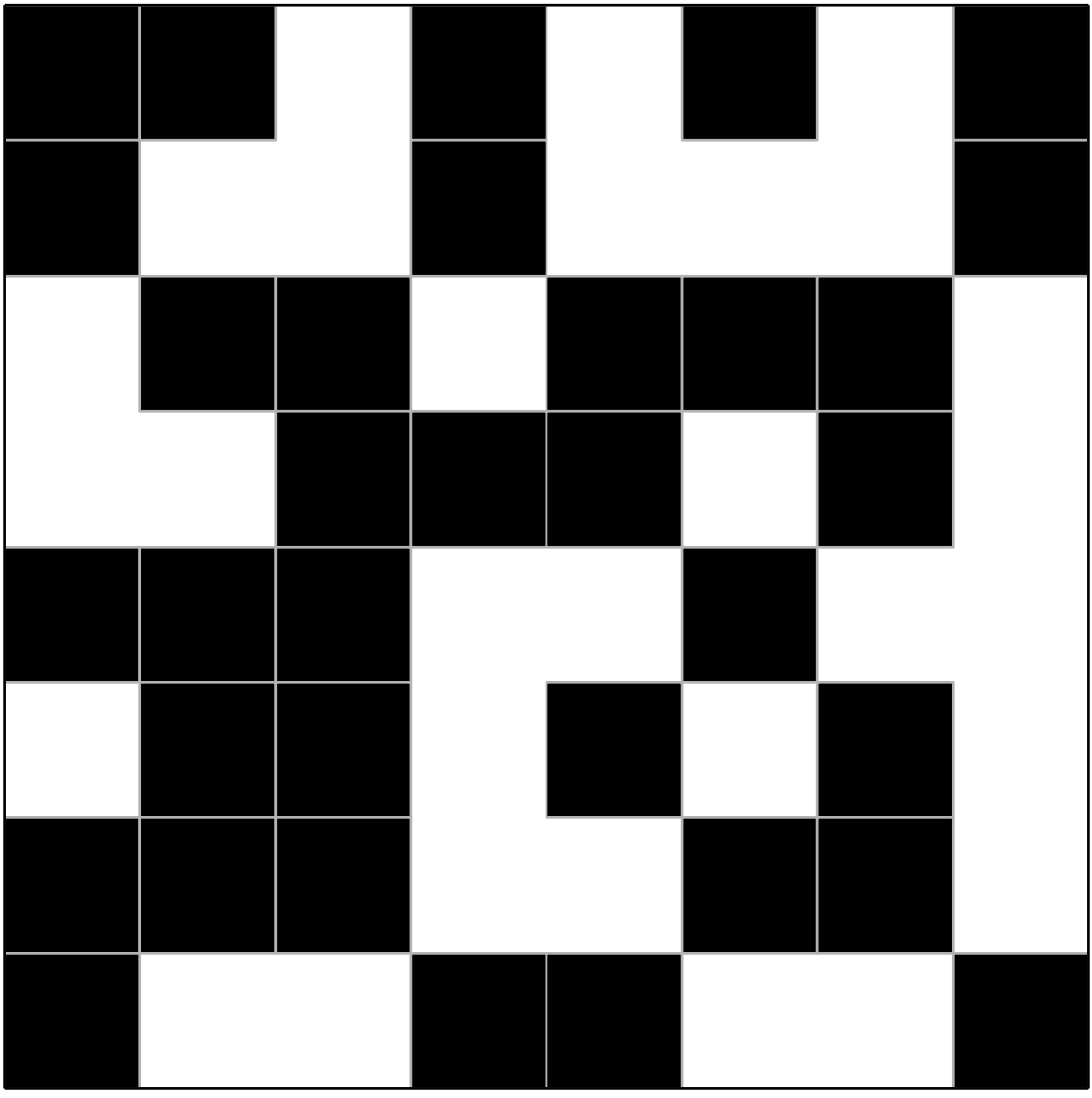
lib2_hs047-02 8x8 (34) con: 3, var: 5



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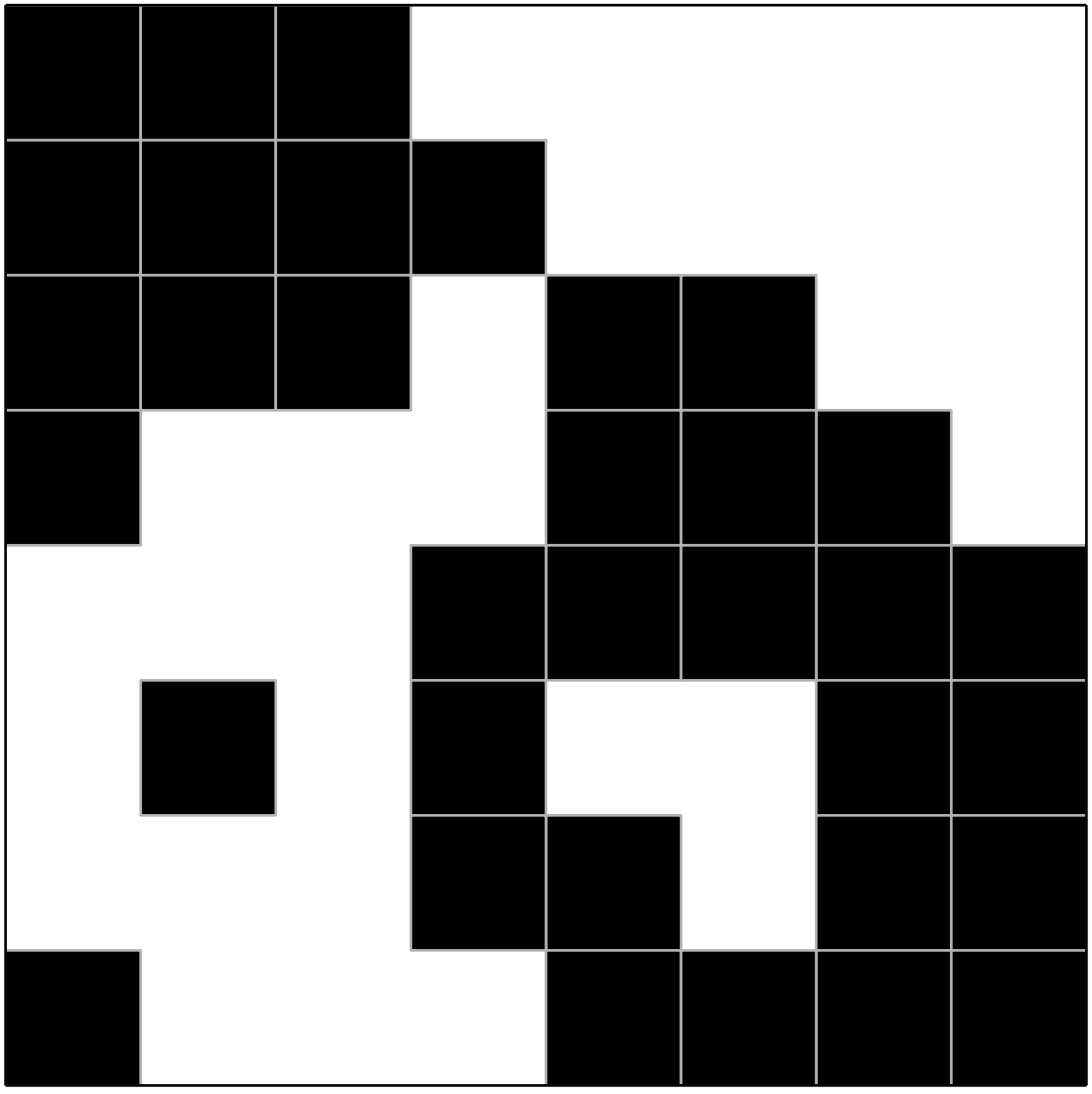
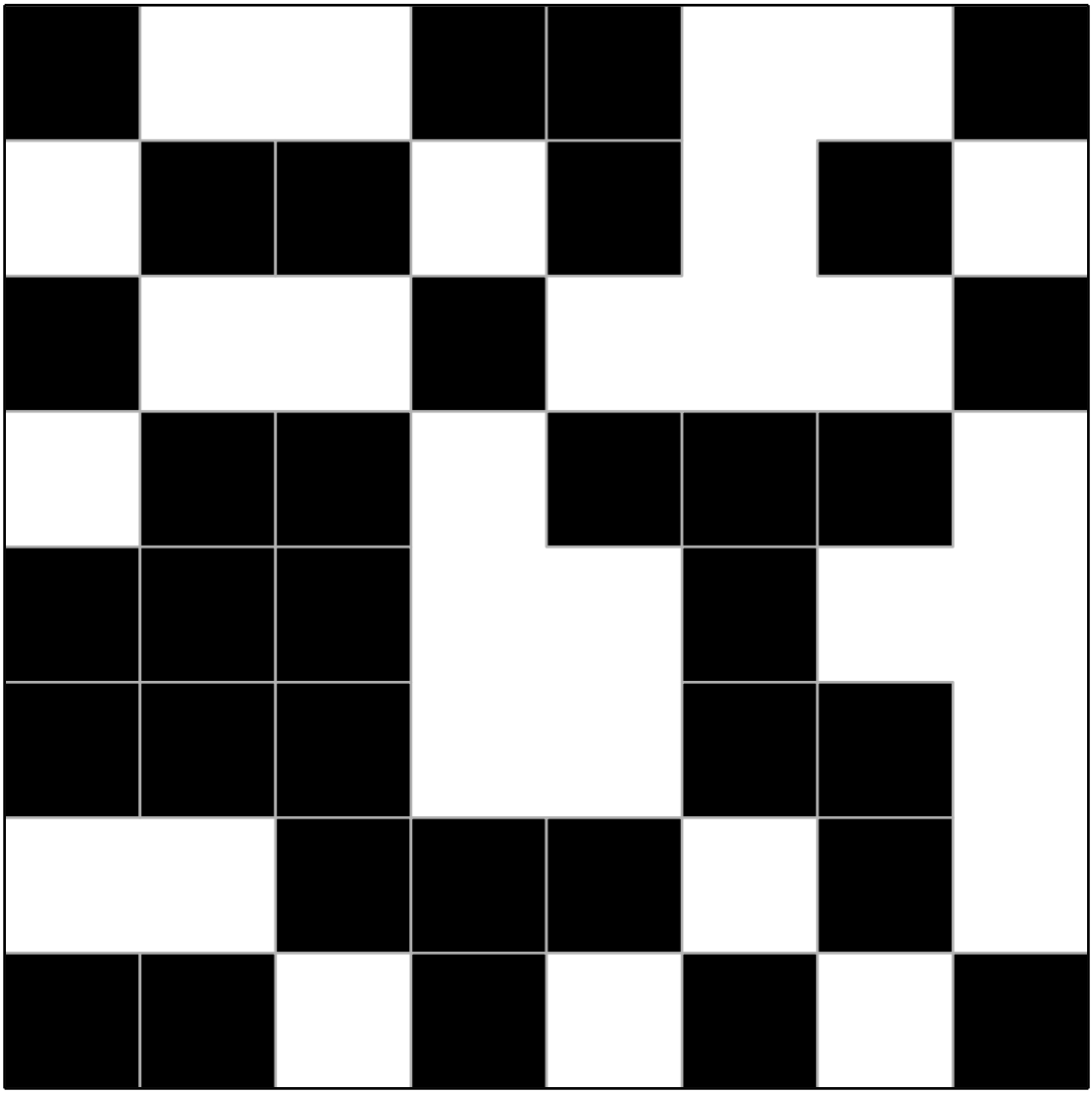


lib2_hs047-03 8x8 (34) con: 3, var: 5



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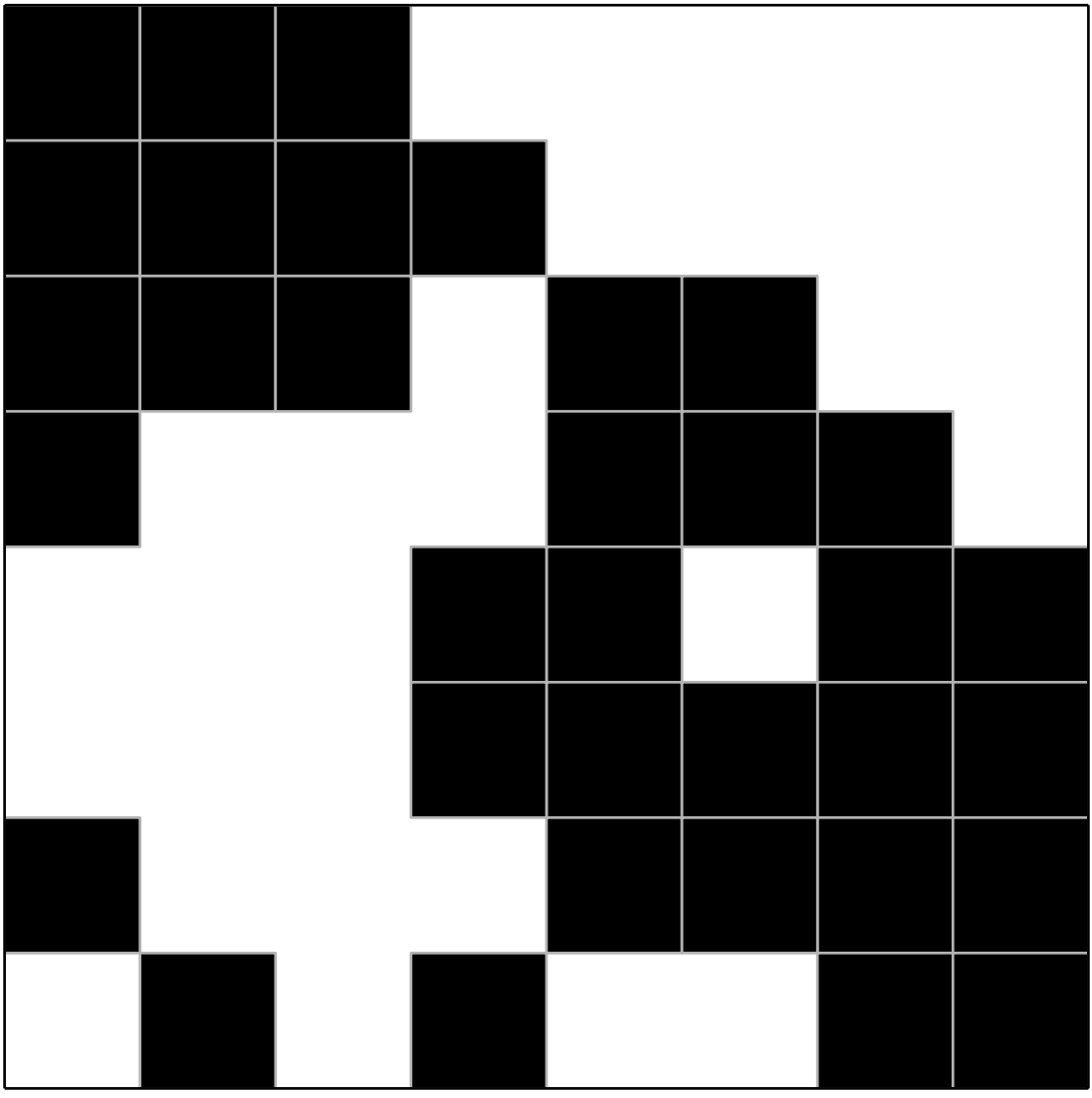
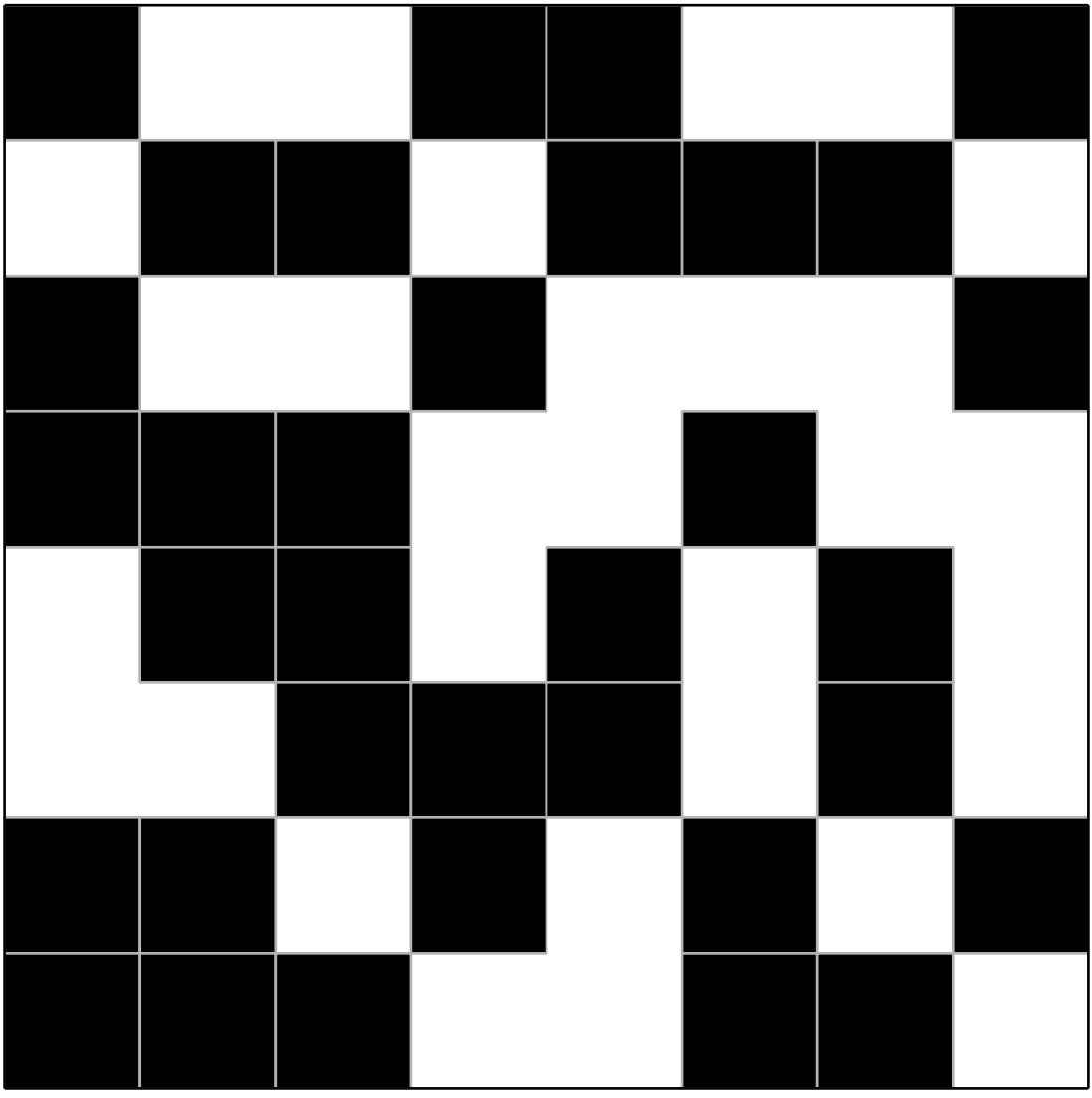
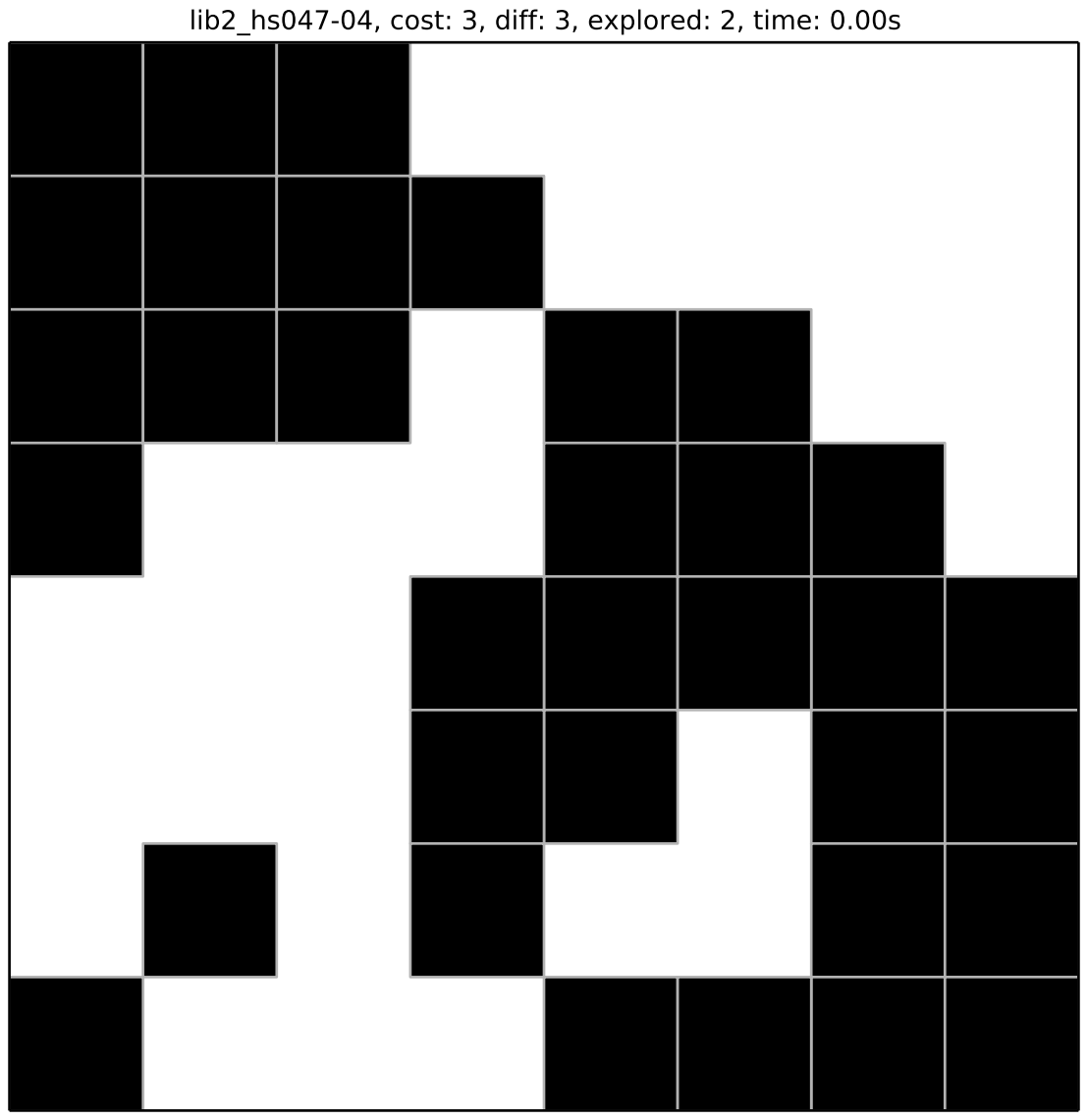


lib2_hs047-04 8x8 (34) con: 3, var: 5

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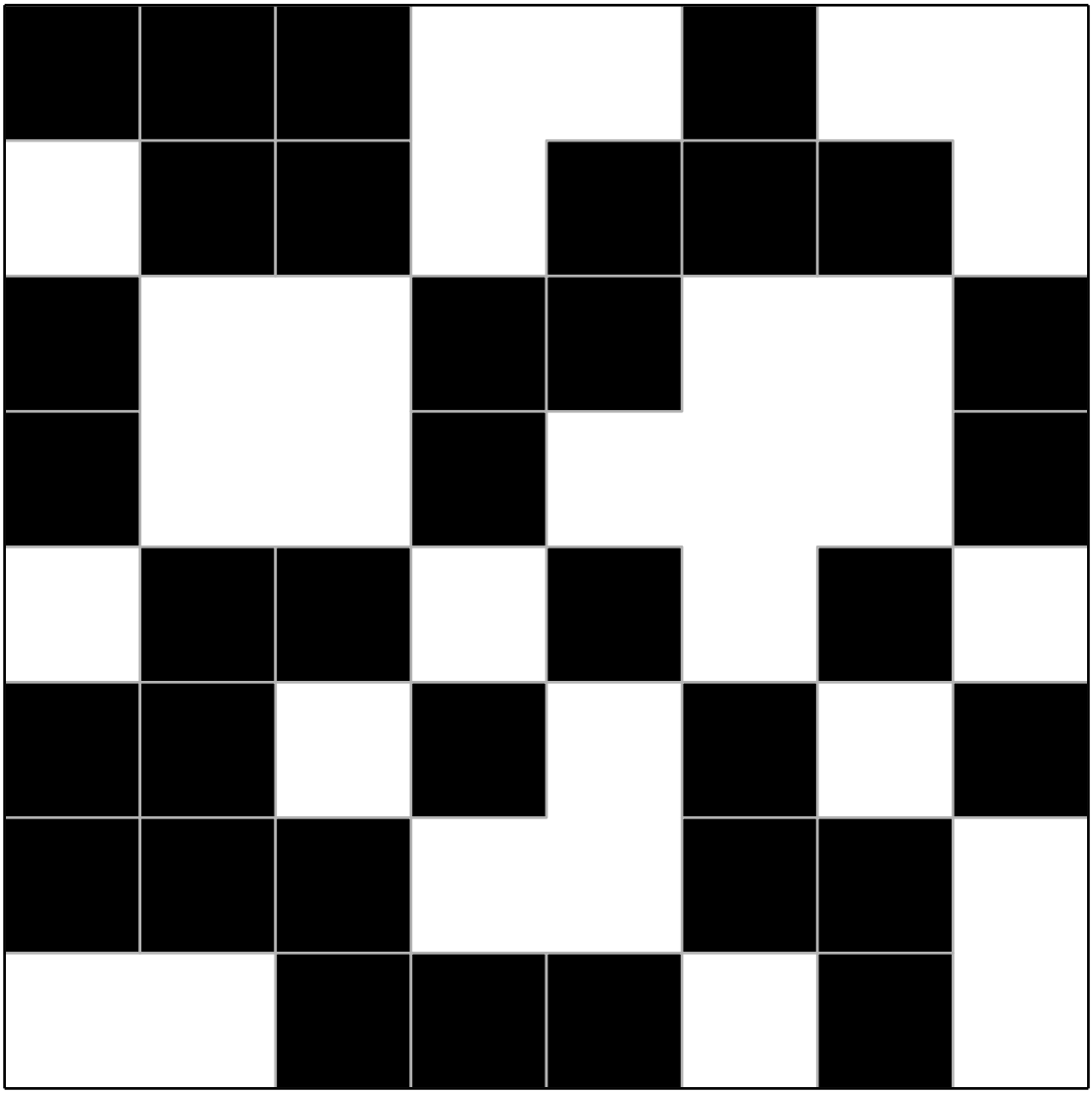
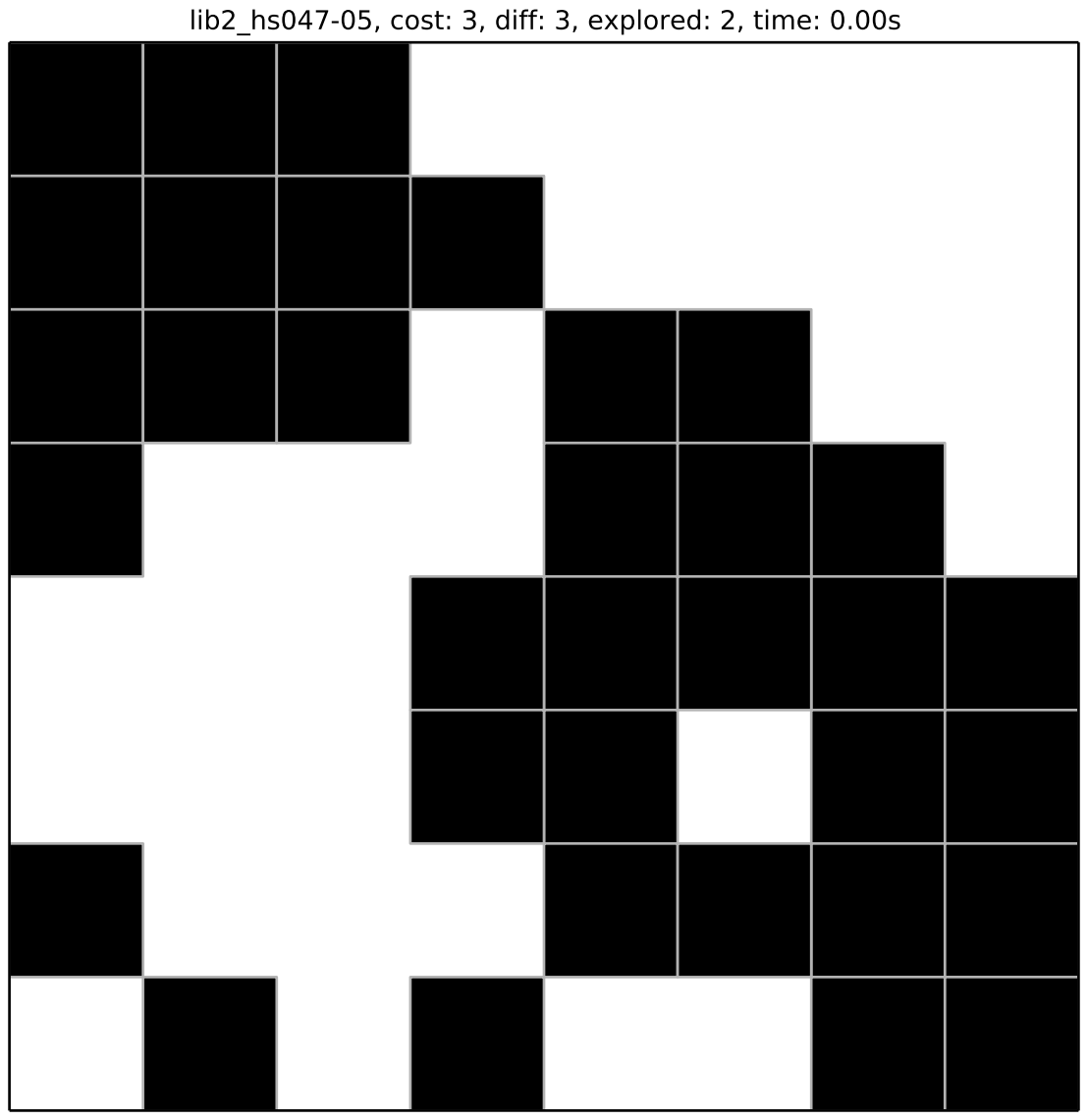
lib2_hs047-05 8x8 (34) con: 3, var: 5

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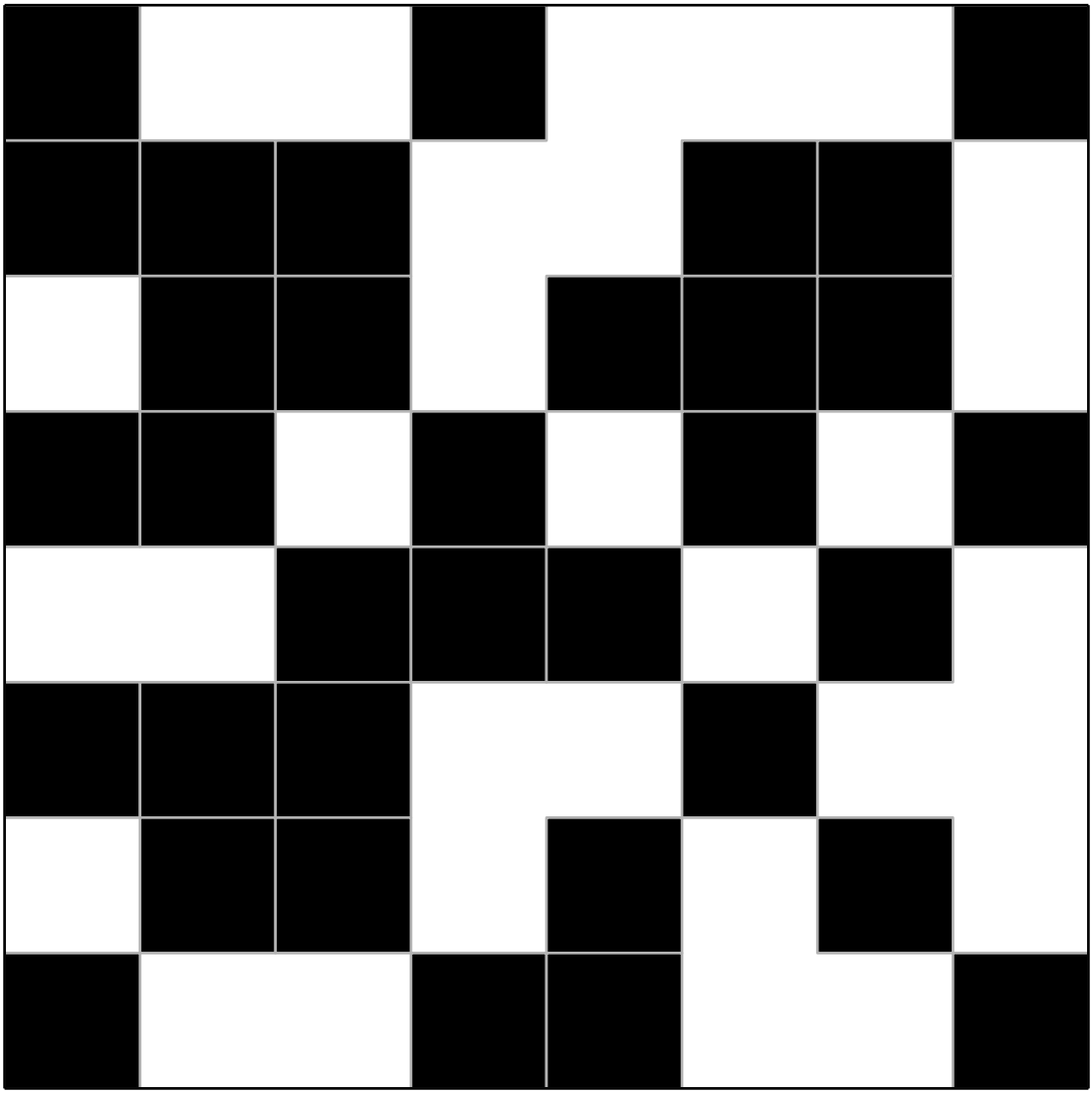
lib2_hs047-06 8x8 (34) con: 3, var: 5



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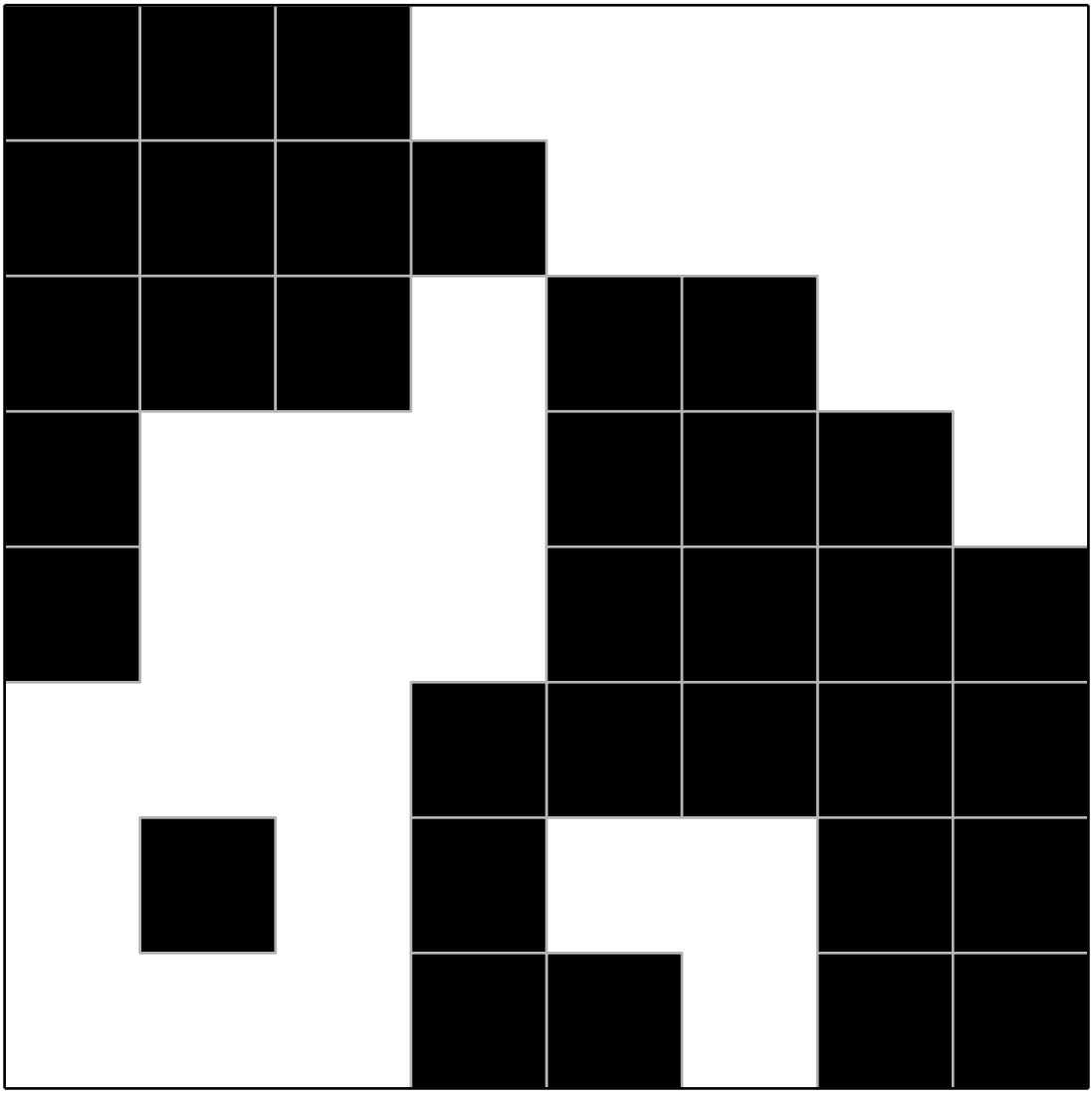
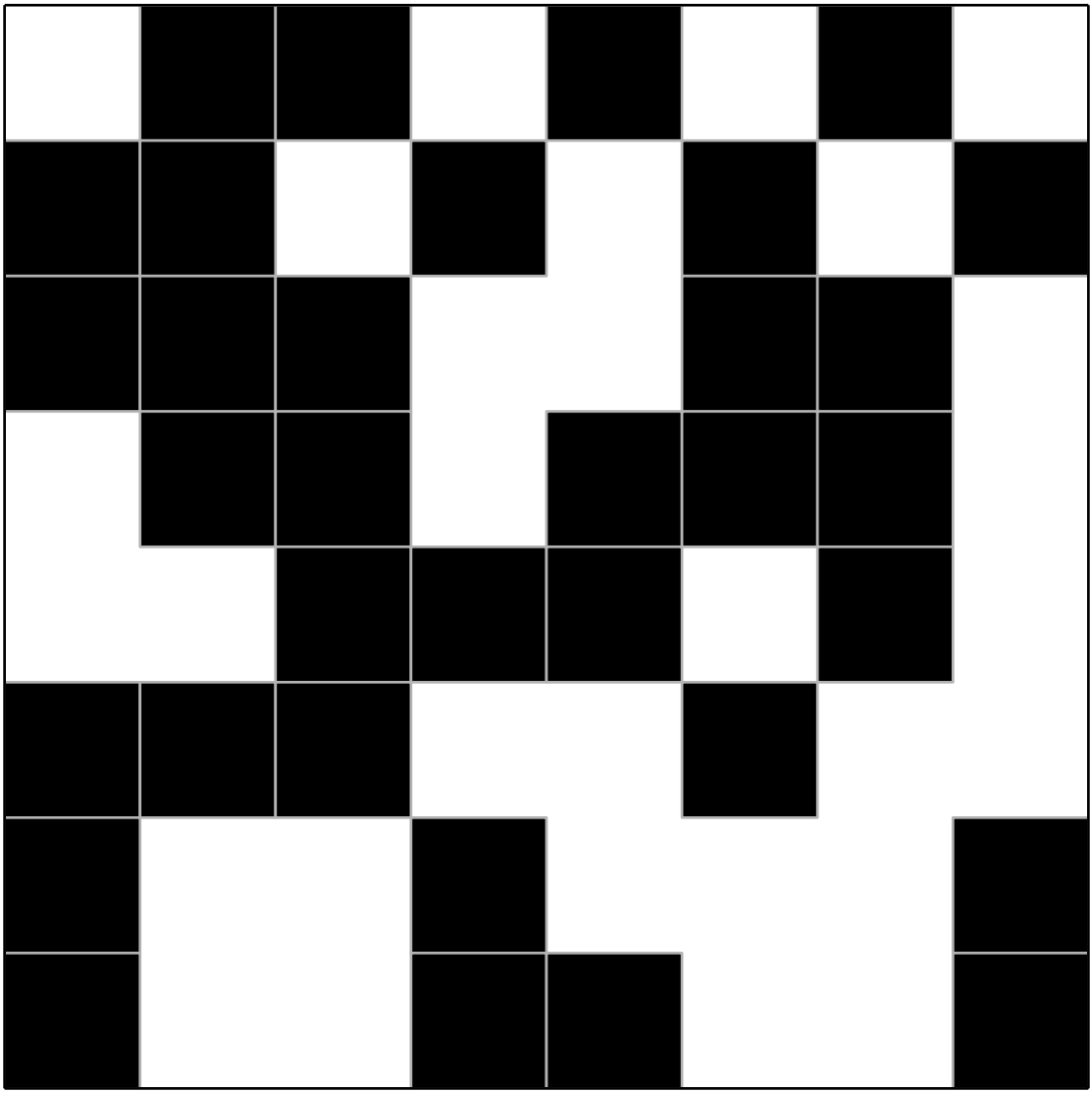


lib2_hs047-07 8x8 (34) con: 3, var: 5



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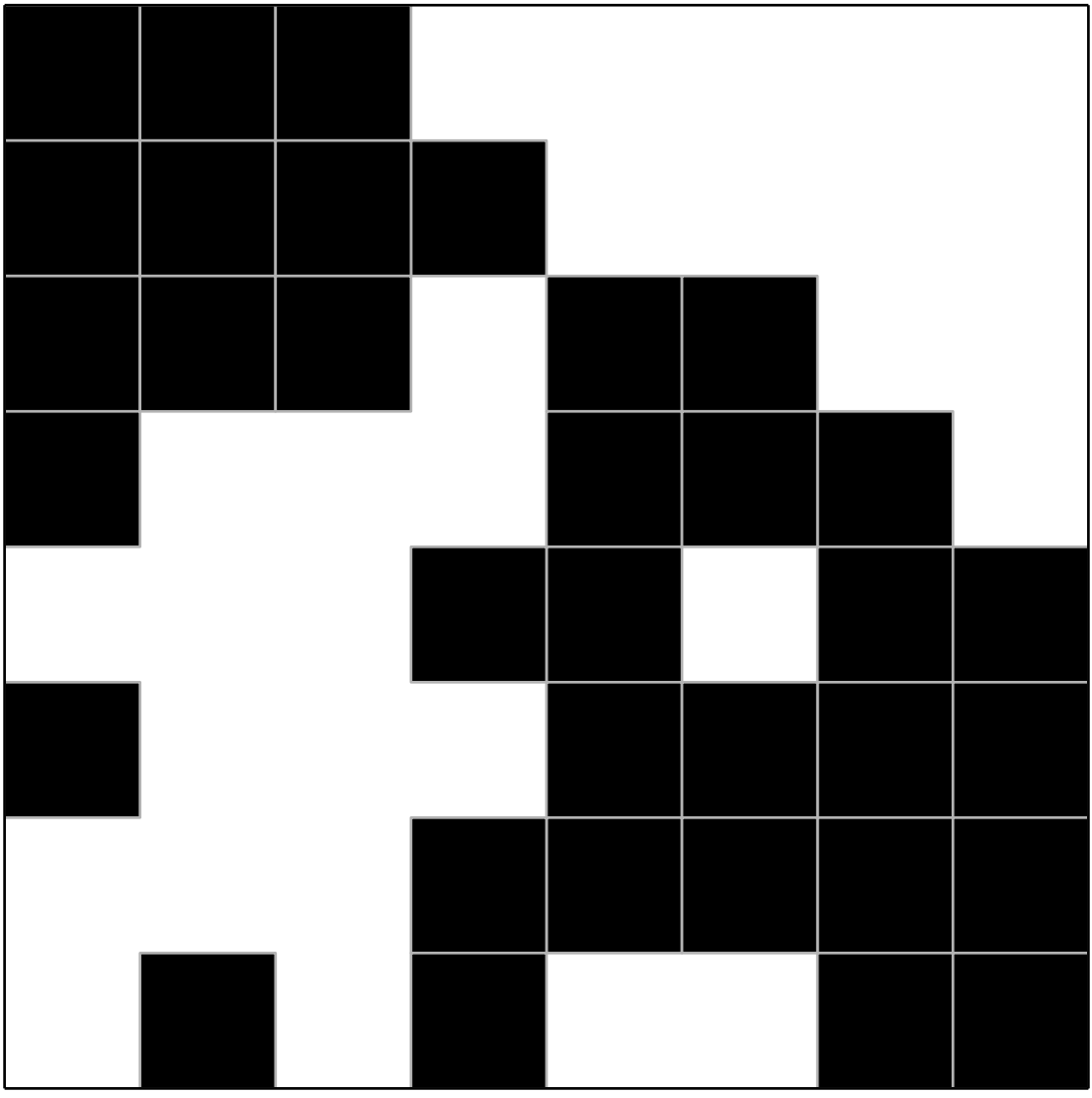
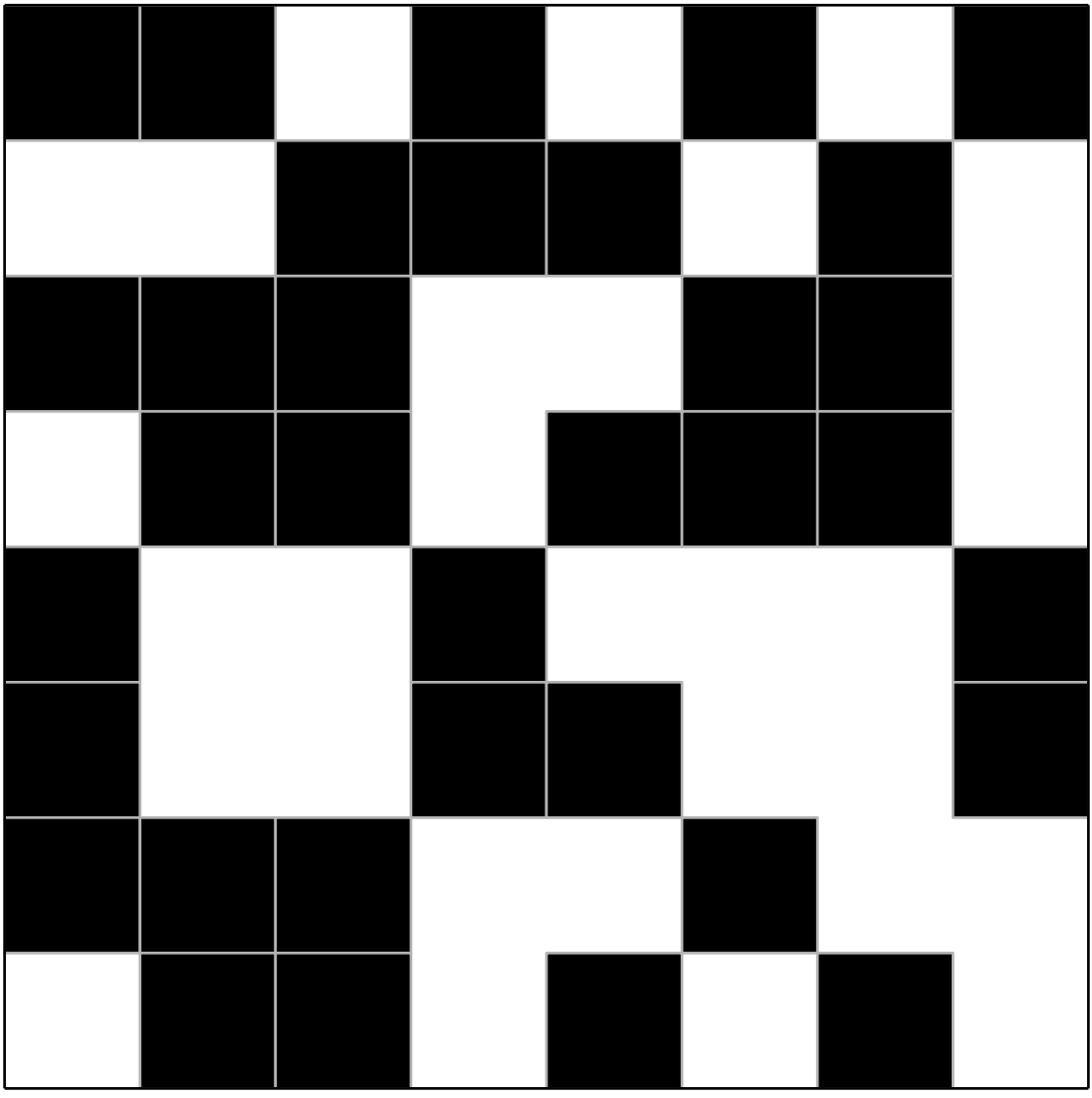
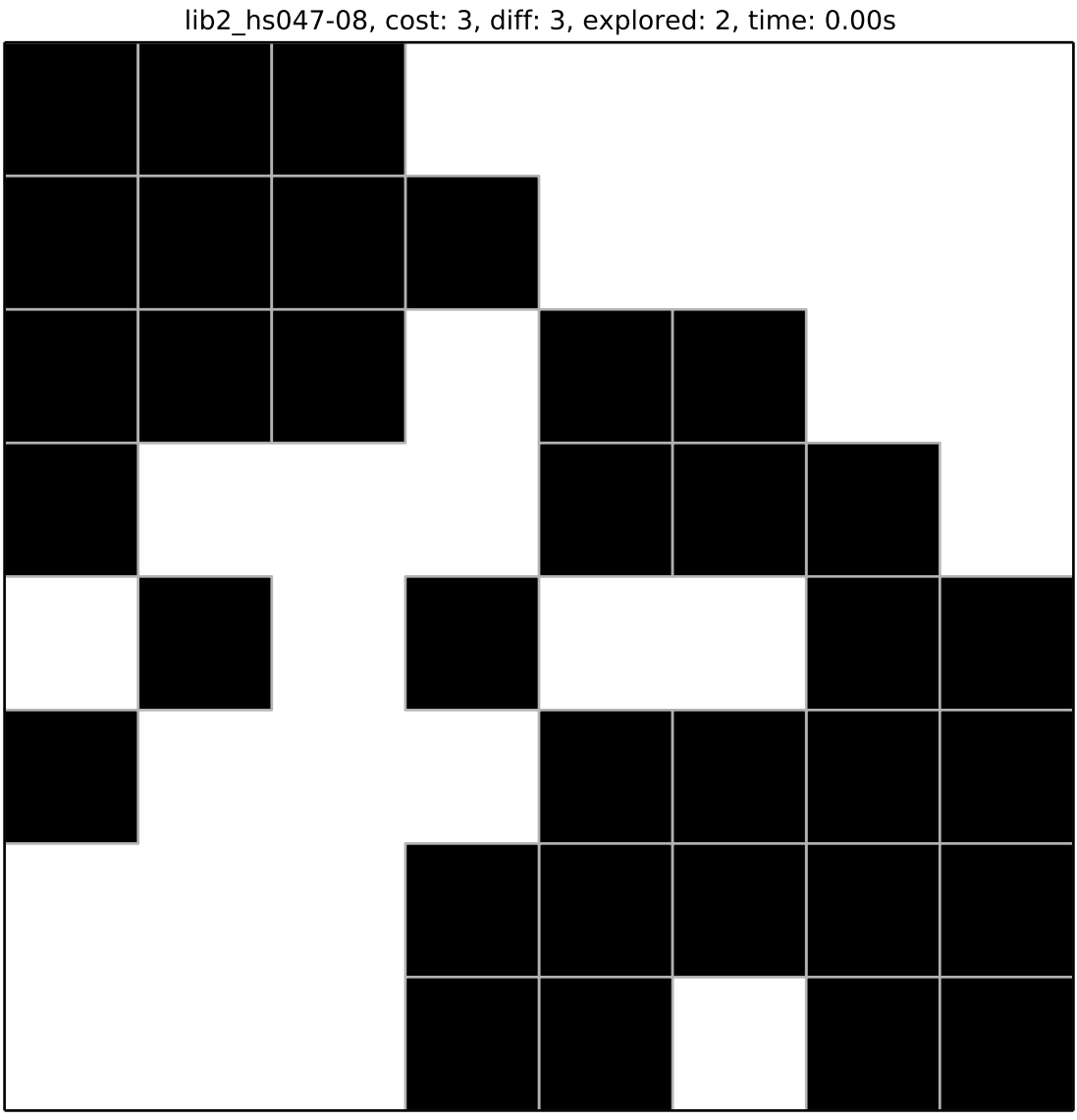


lib2_hs047-08 8x8 (34) con: 3, var: 5

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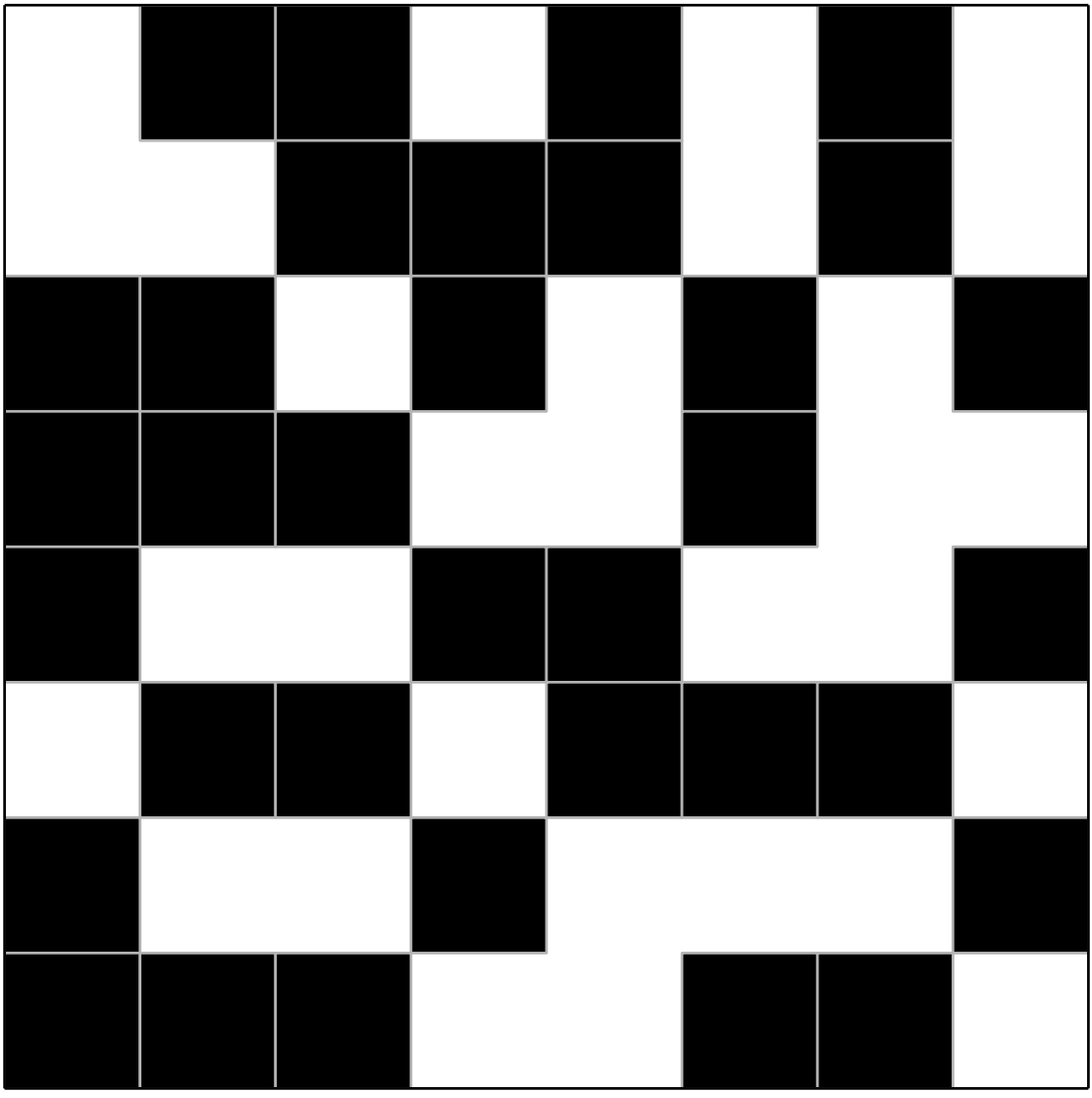

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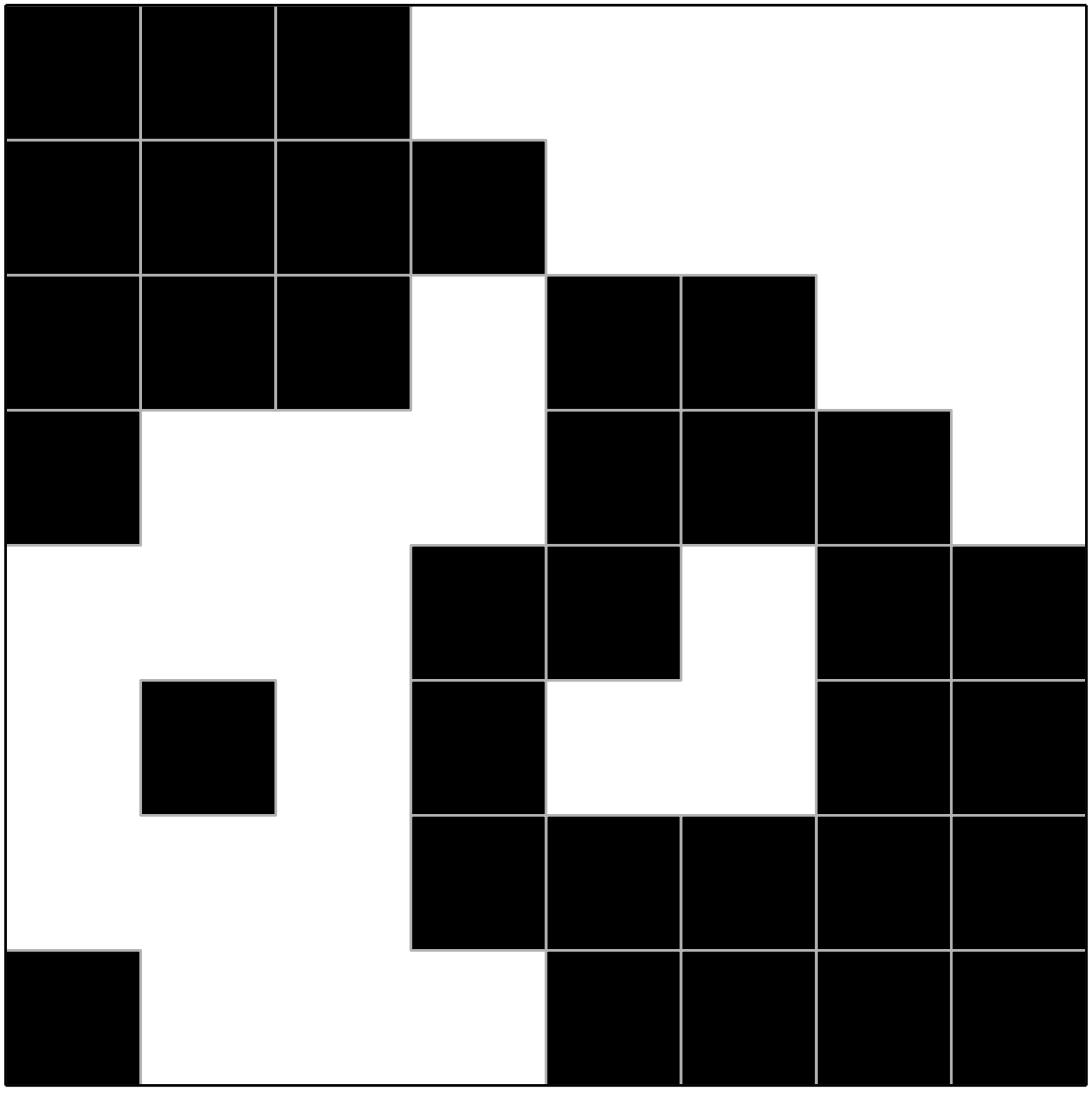
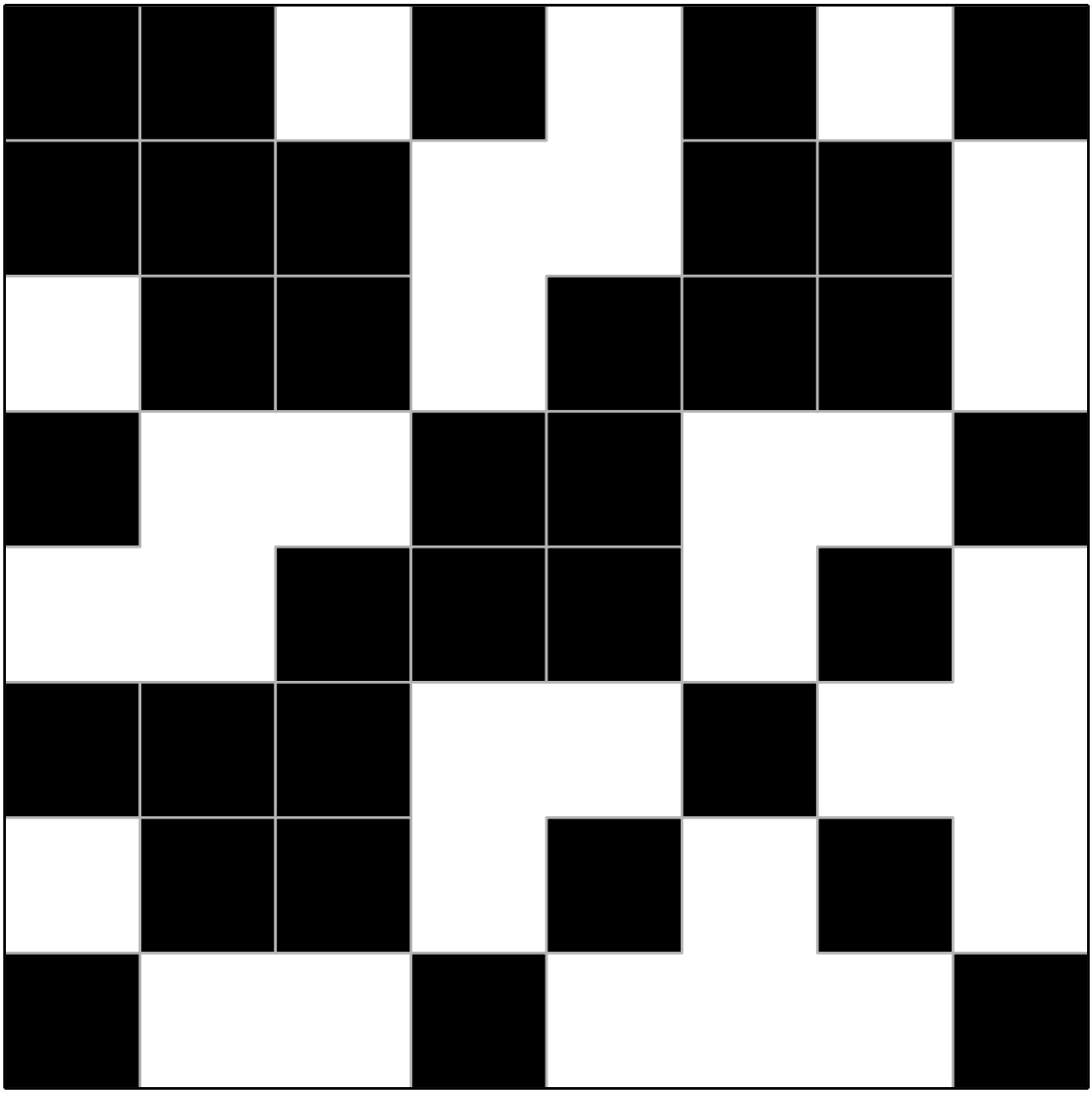
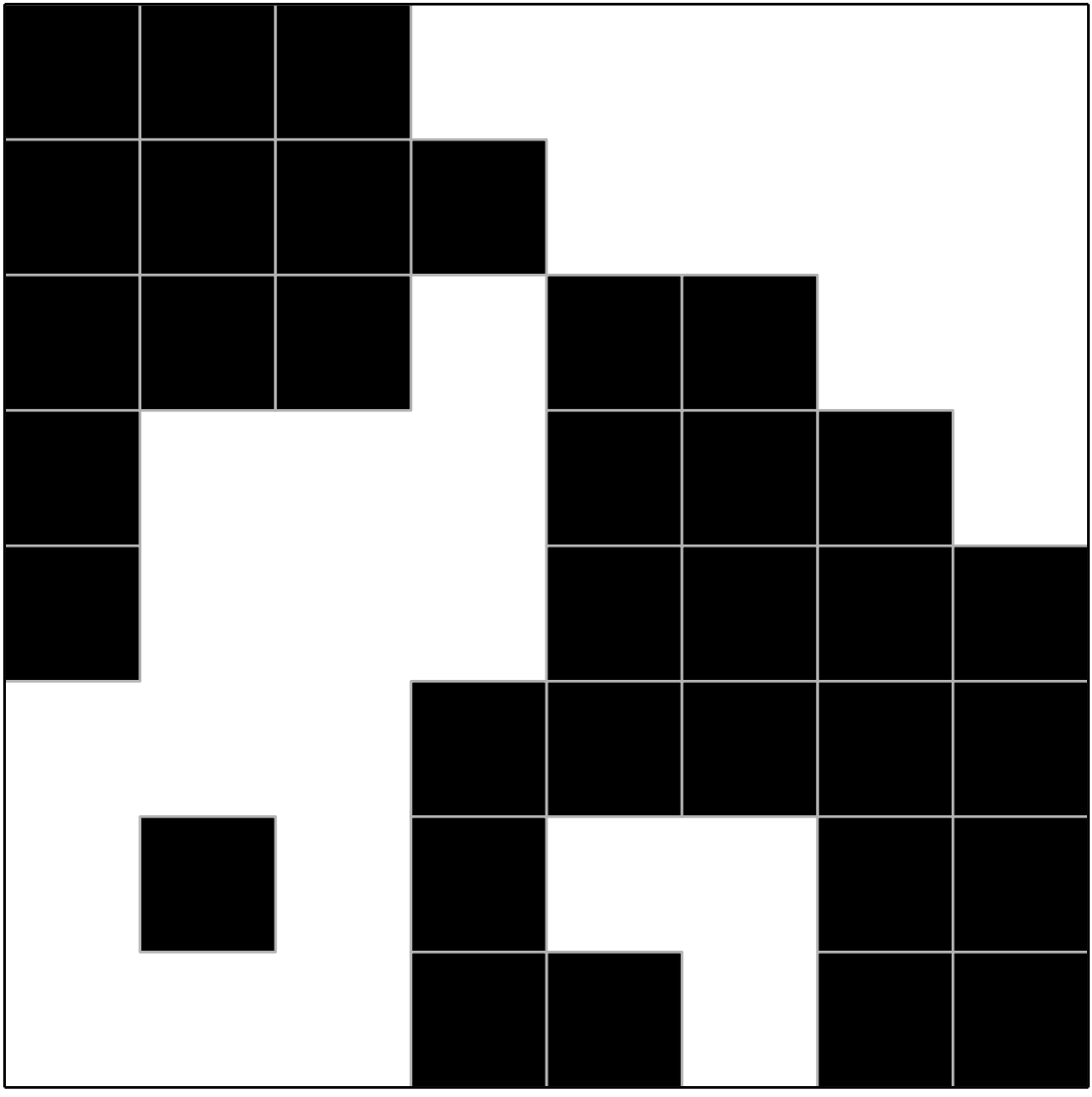


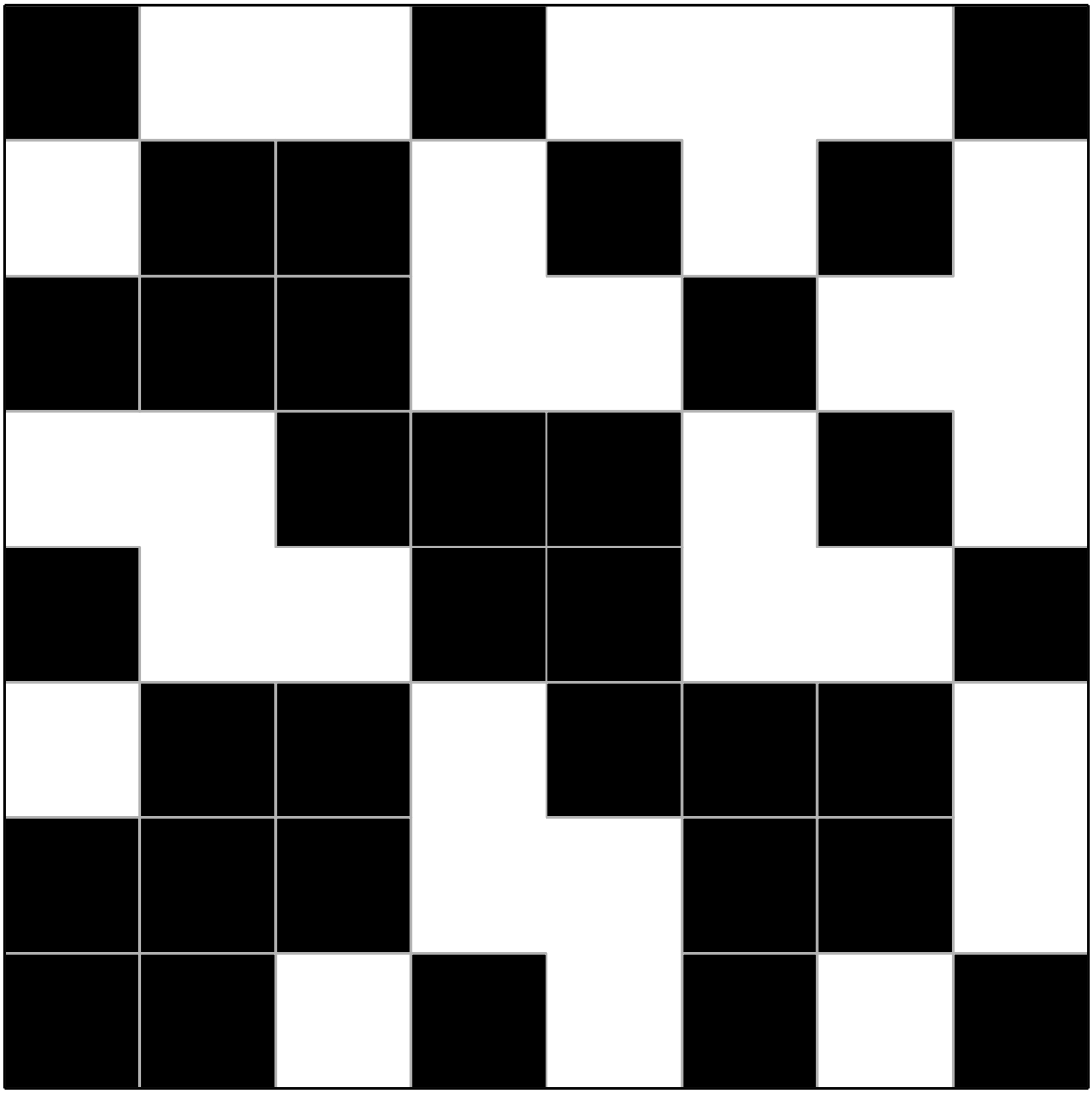
lib2_hs047-IN 8x8 (34) con: 3, var: 5

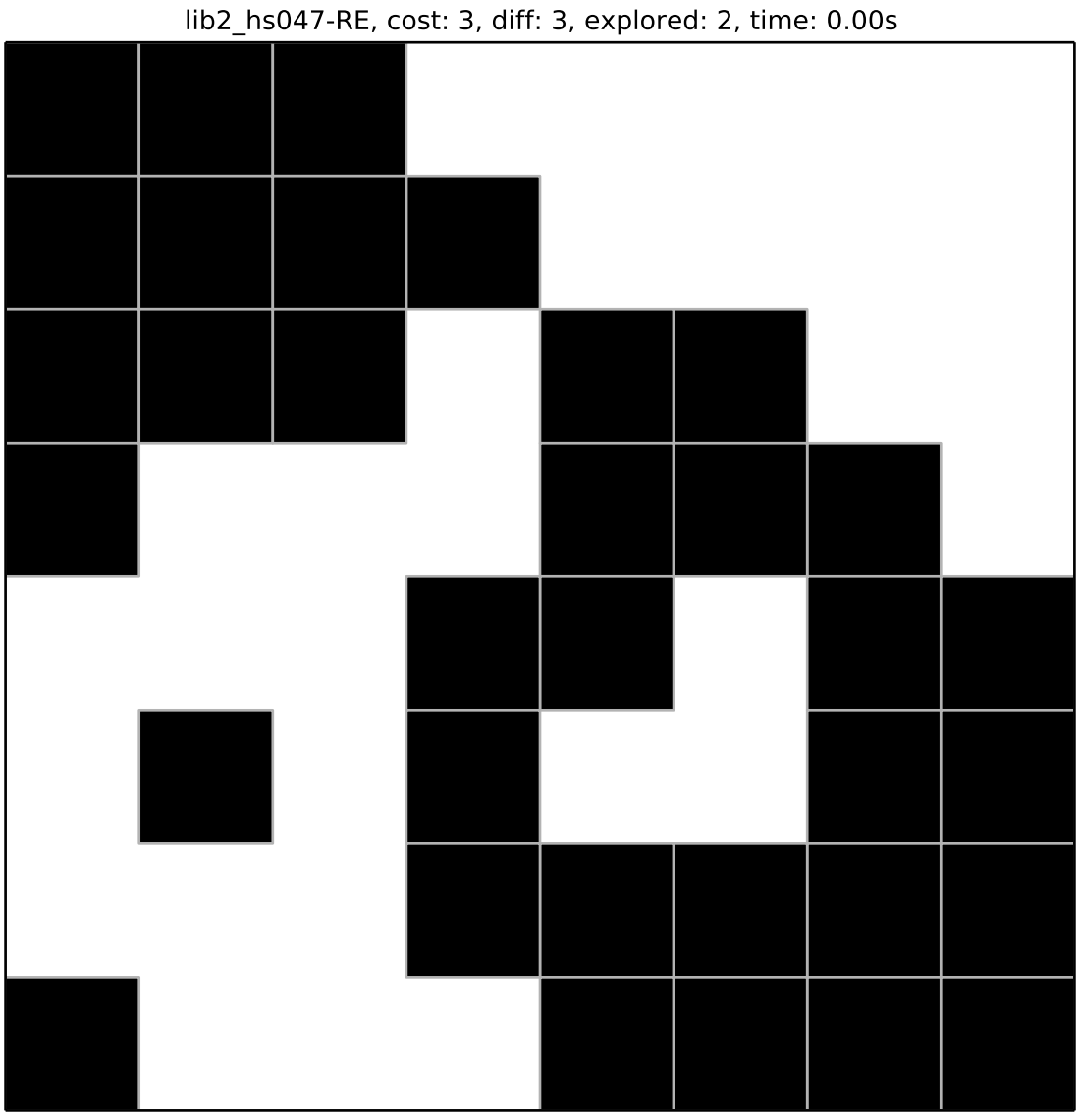


lib2_hs047-IN, cost: 3, diff: 3, explored: 2, time: 0.00s



lib2_hs047-RE 8x8 (34) con: 3, var: 5

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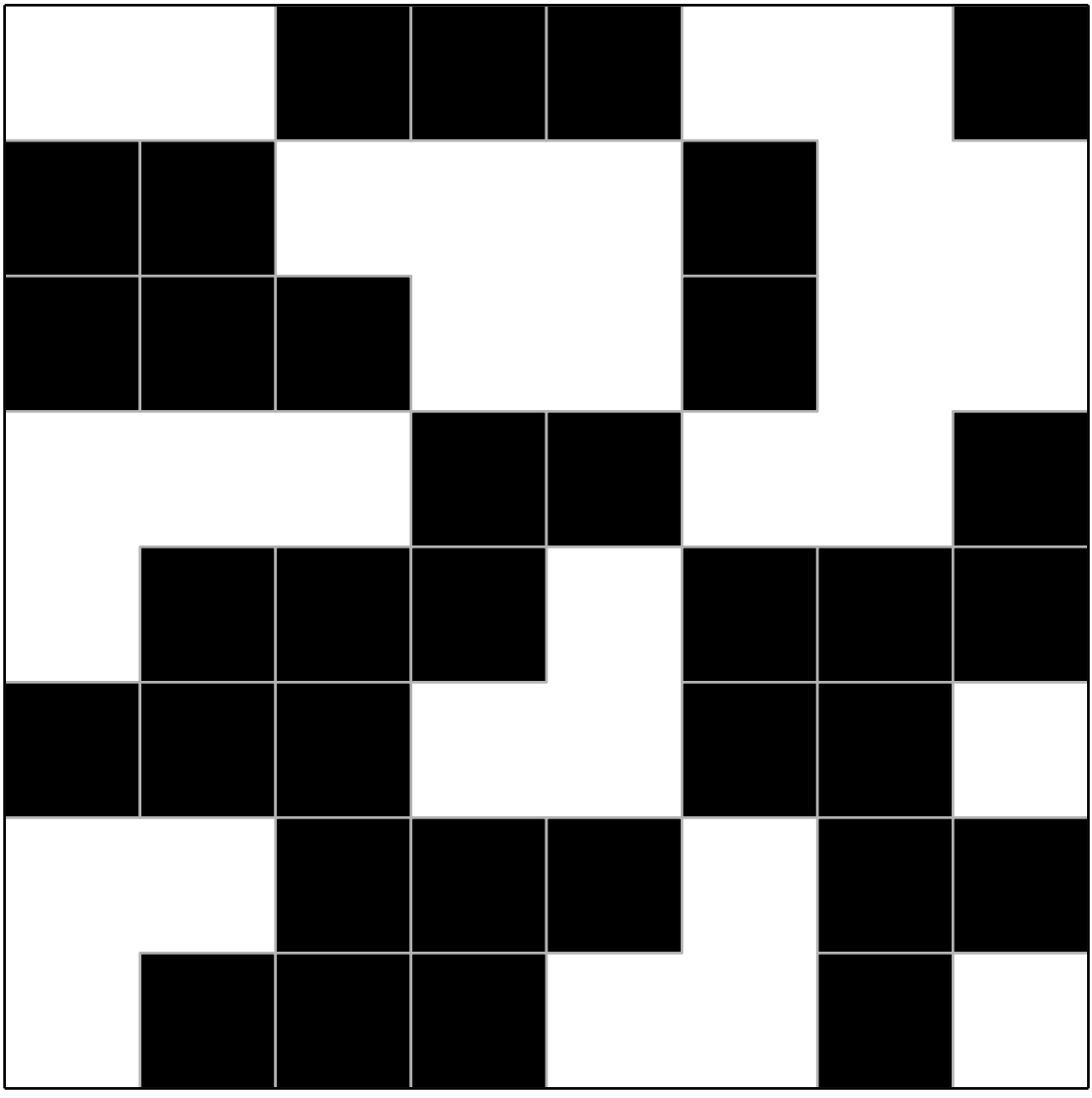
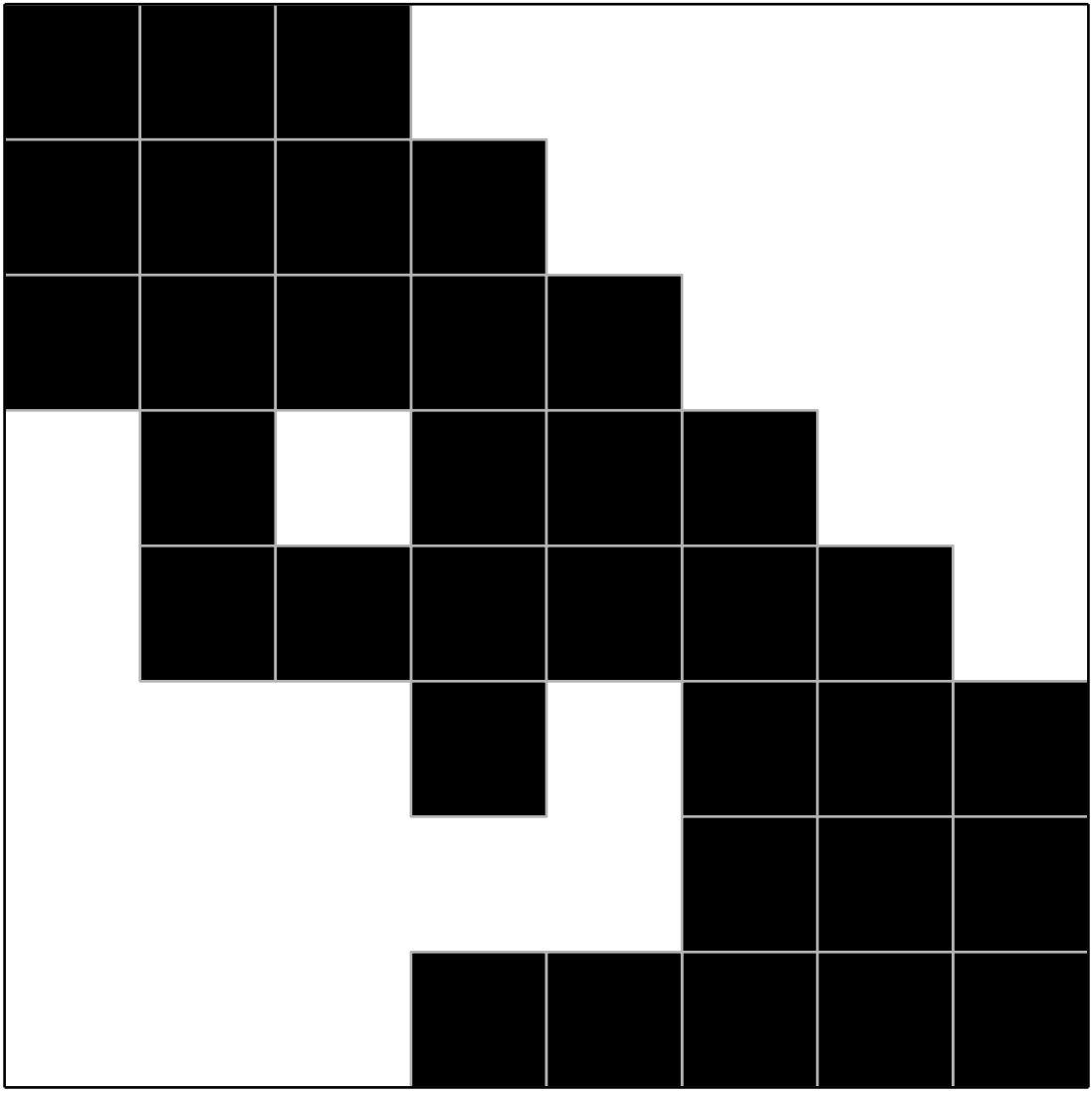
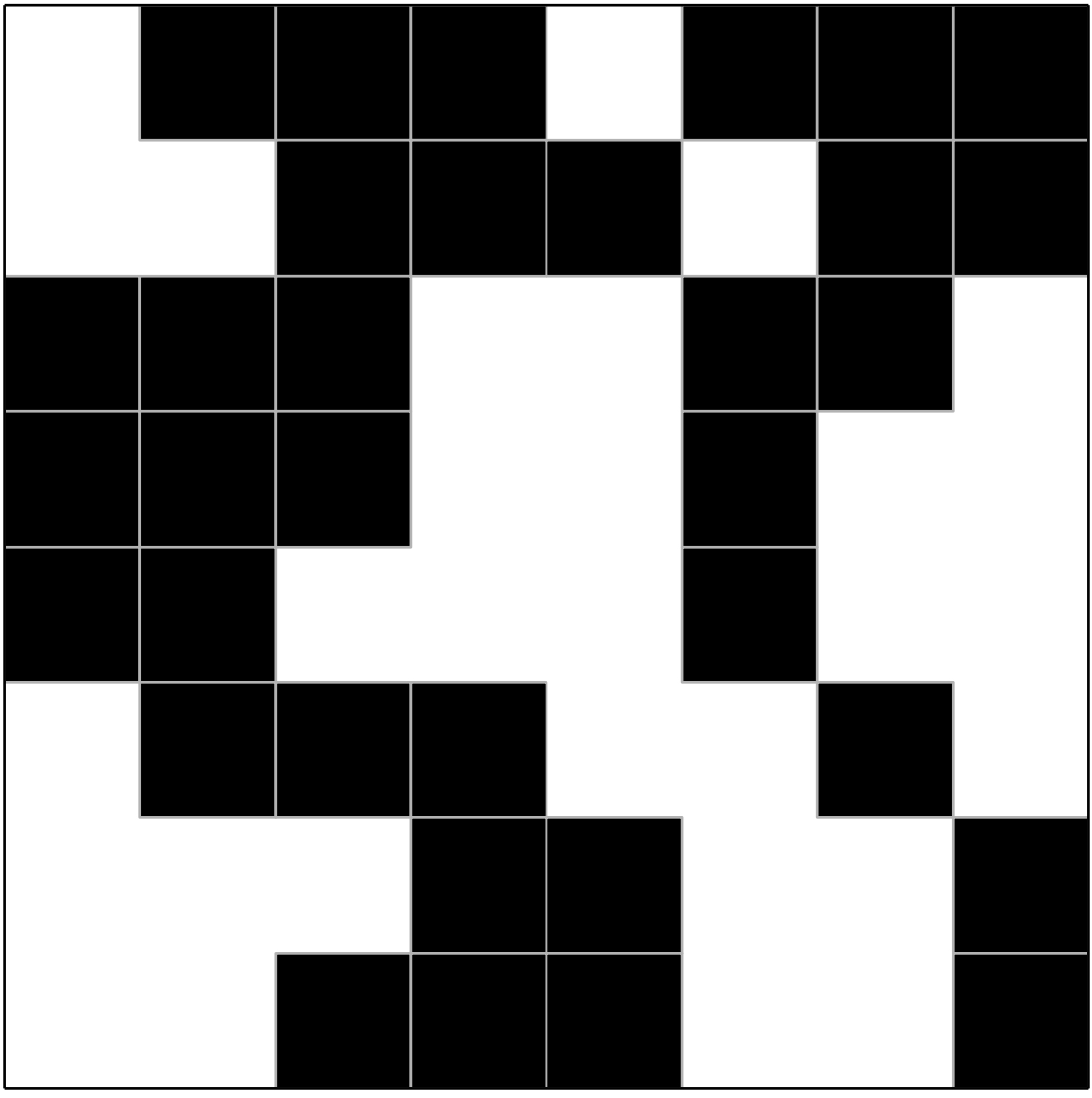
lib2_hs050-00 8x8 (34) con: 3, var: 5



lib2_hs050-00, cost: 2, diff: 2, explored: 0, time: 0.00s, M



lib2_hs050-01 8x8 (34) con: 3, var: 5



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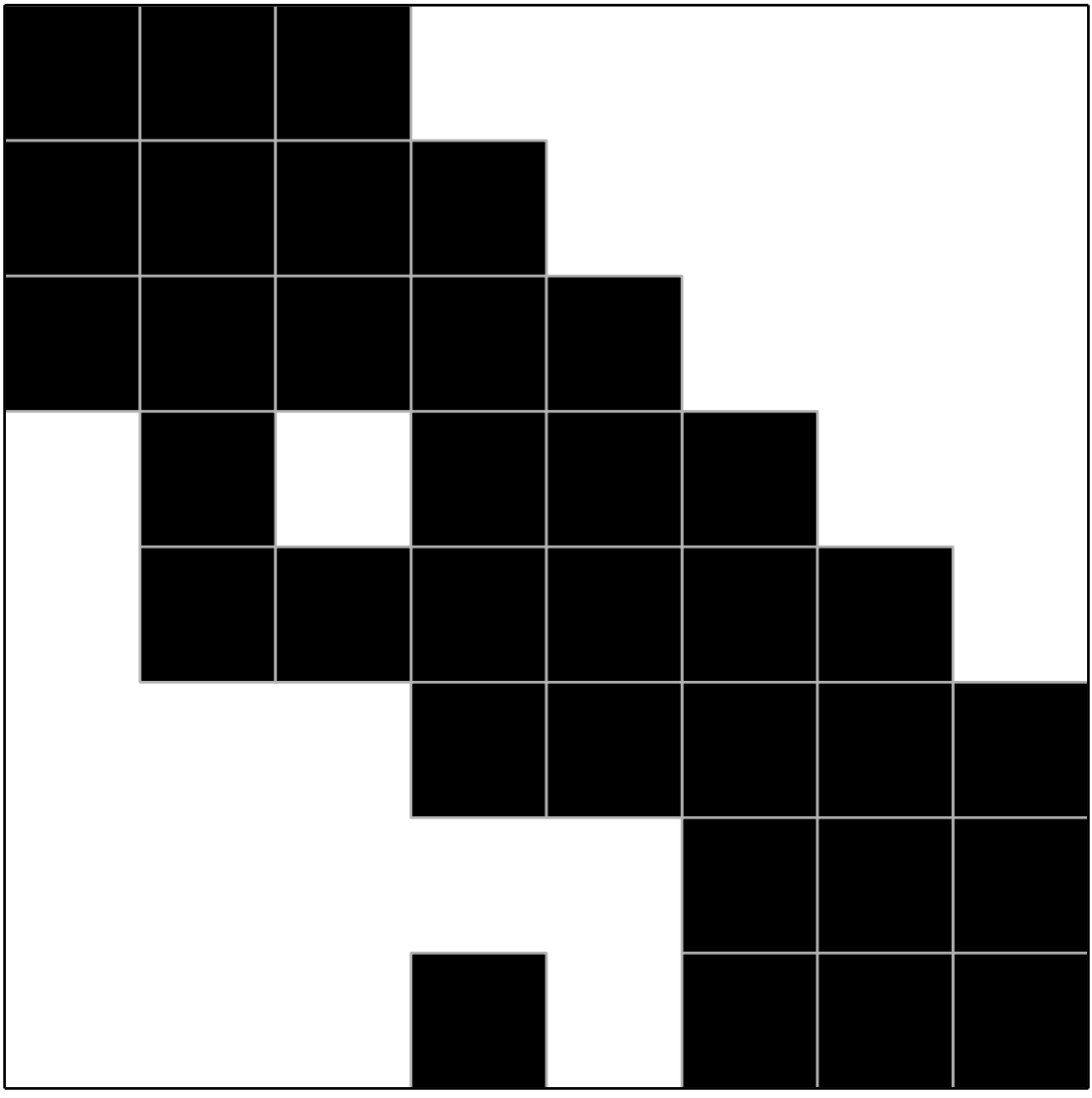
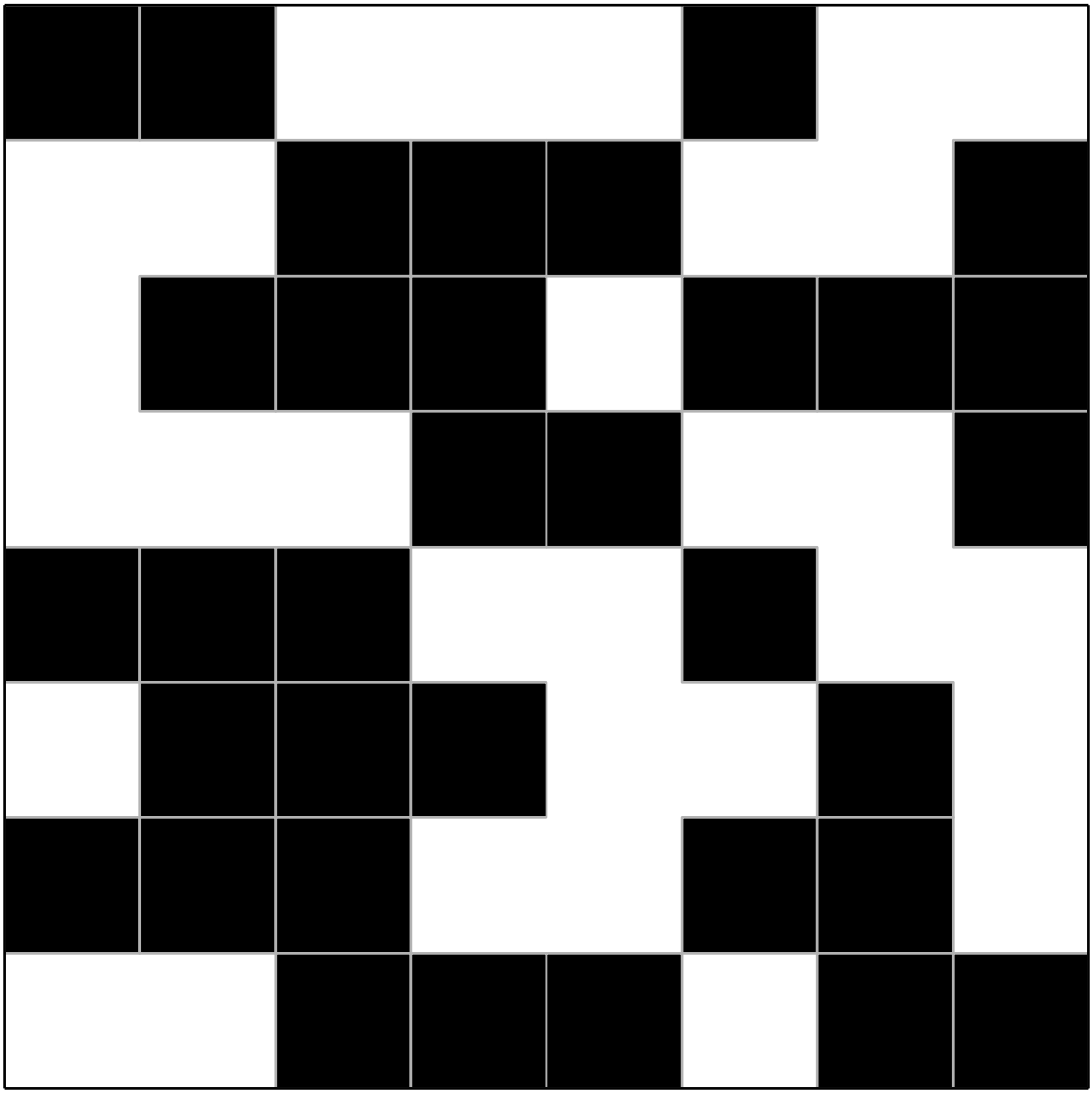


lib2_hs050-02 8x8 (34) con: 3, var: 5



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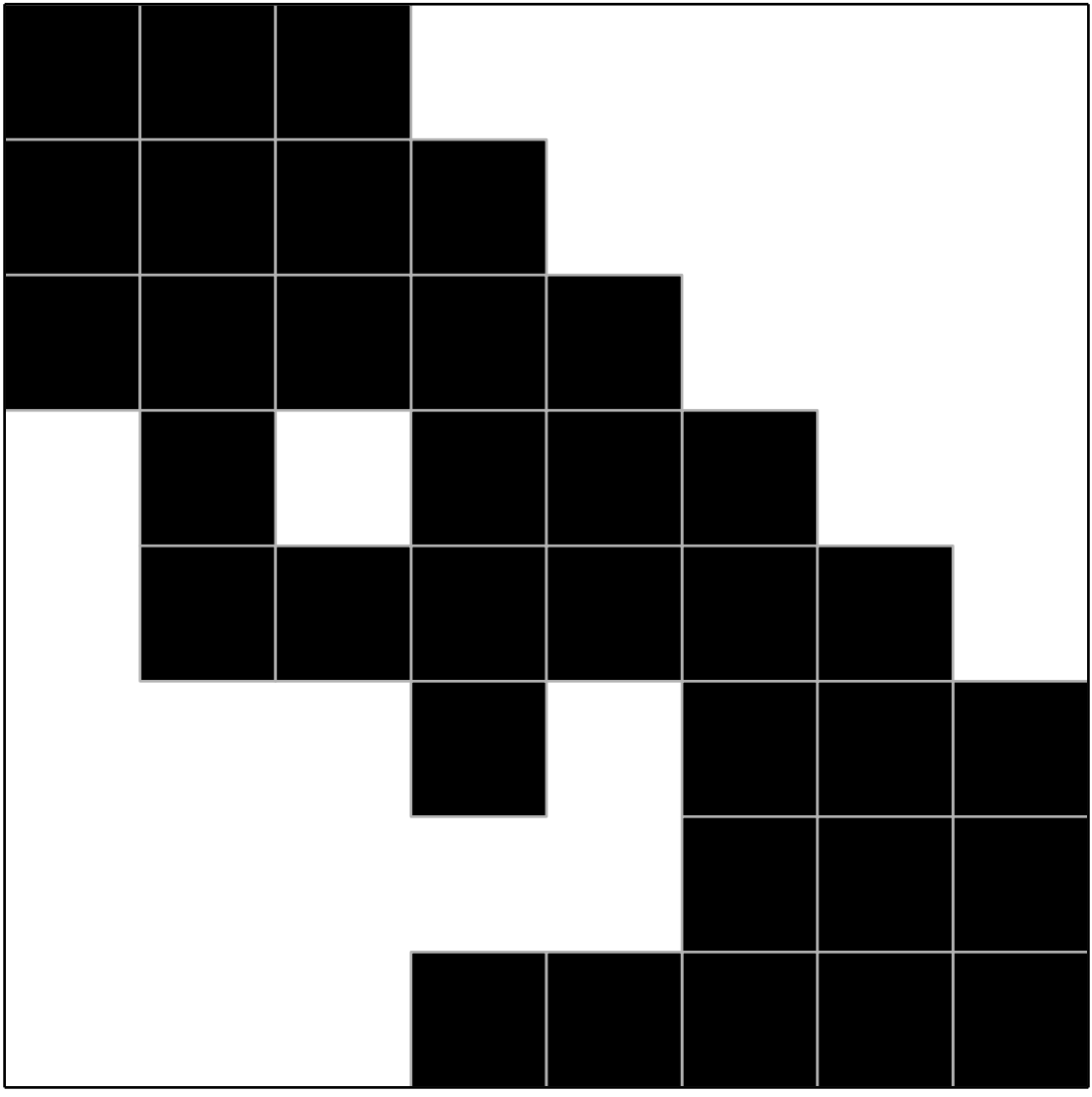
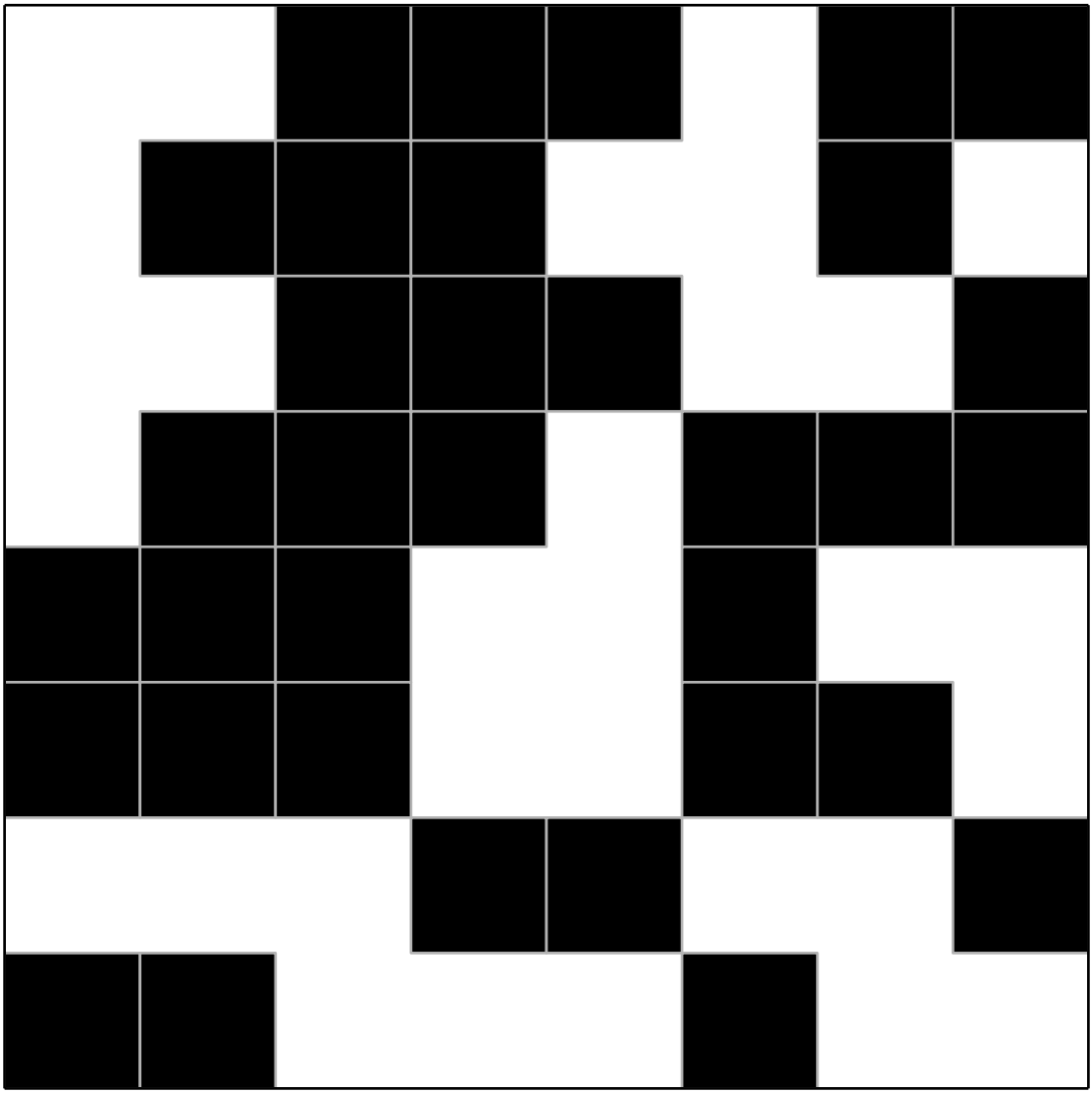
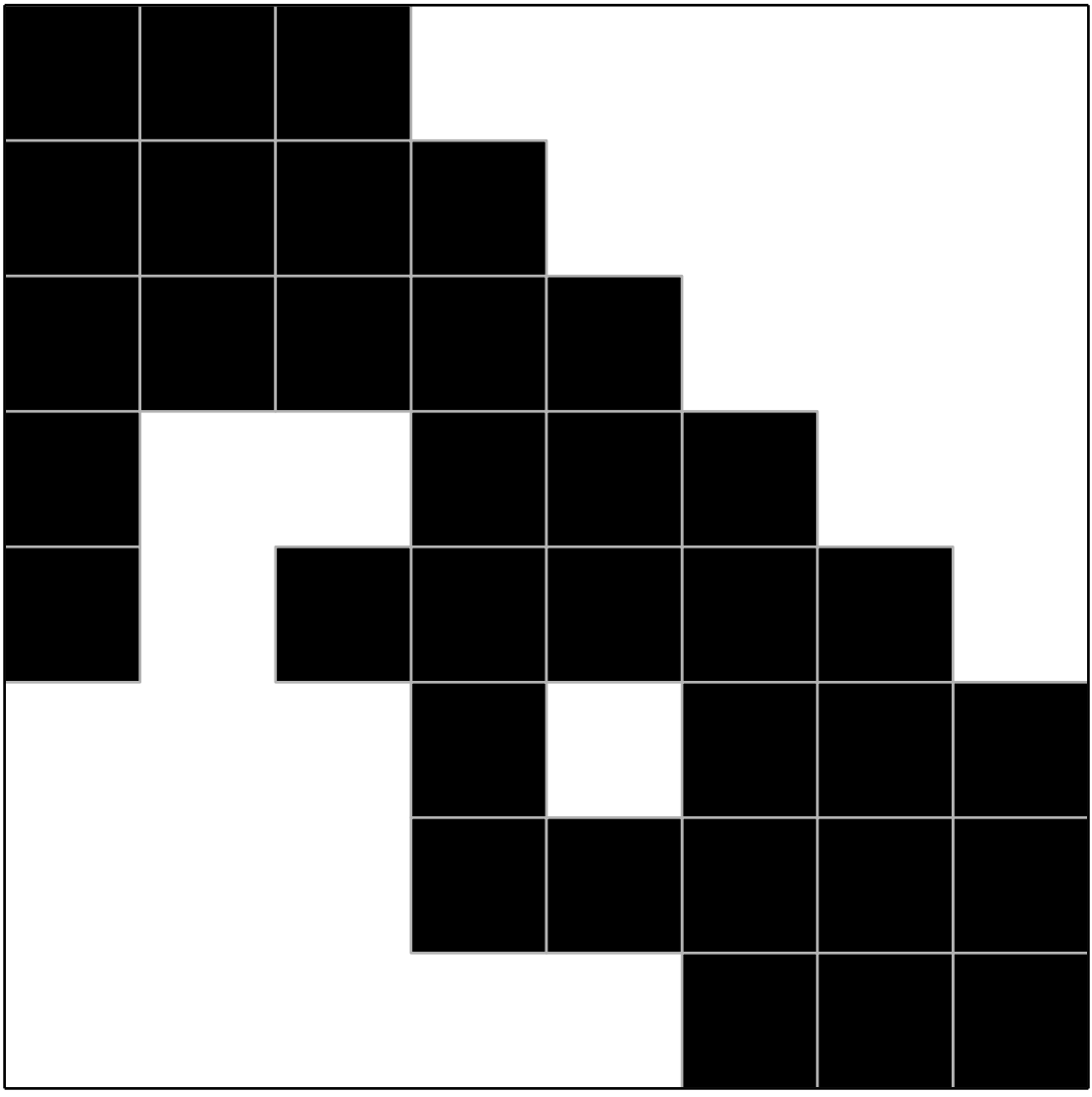


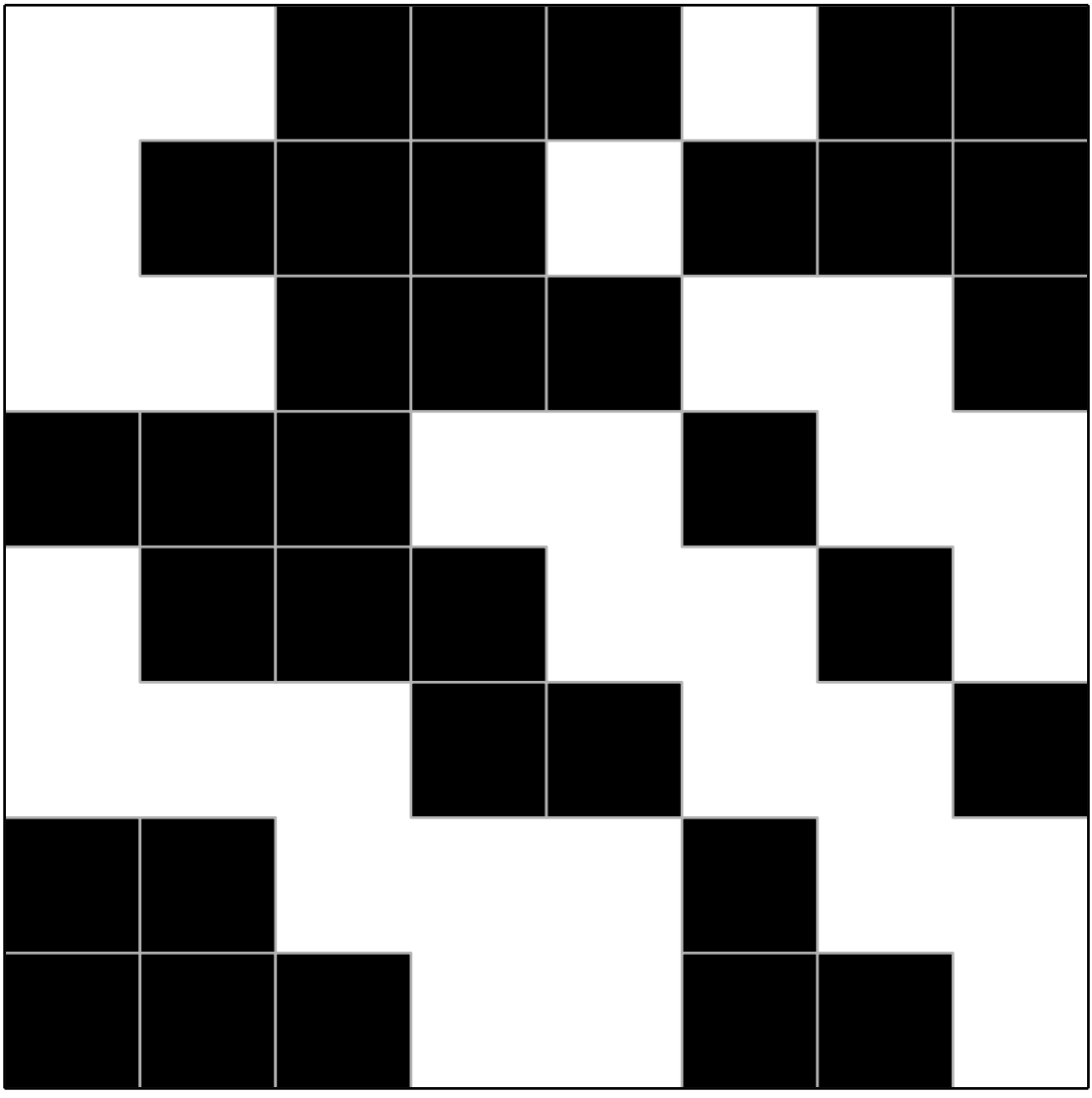
lib2_hs050-03 8x8 (34) con: 3, var: 5



lib2_hs050-03, cost: 2, diff: 2, explored: 0, time: 0.00s, M



lib2_hs050-04 8x8 (34) con: 3, var: 5



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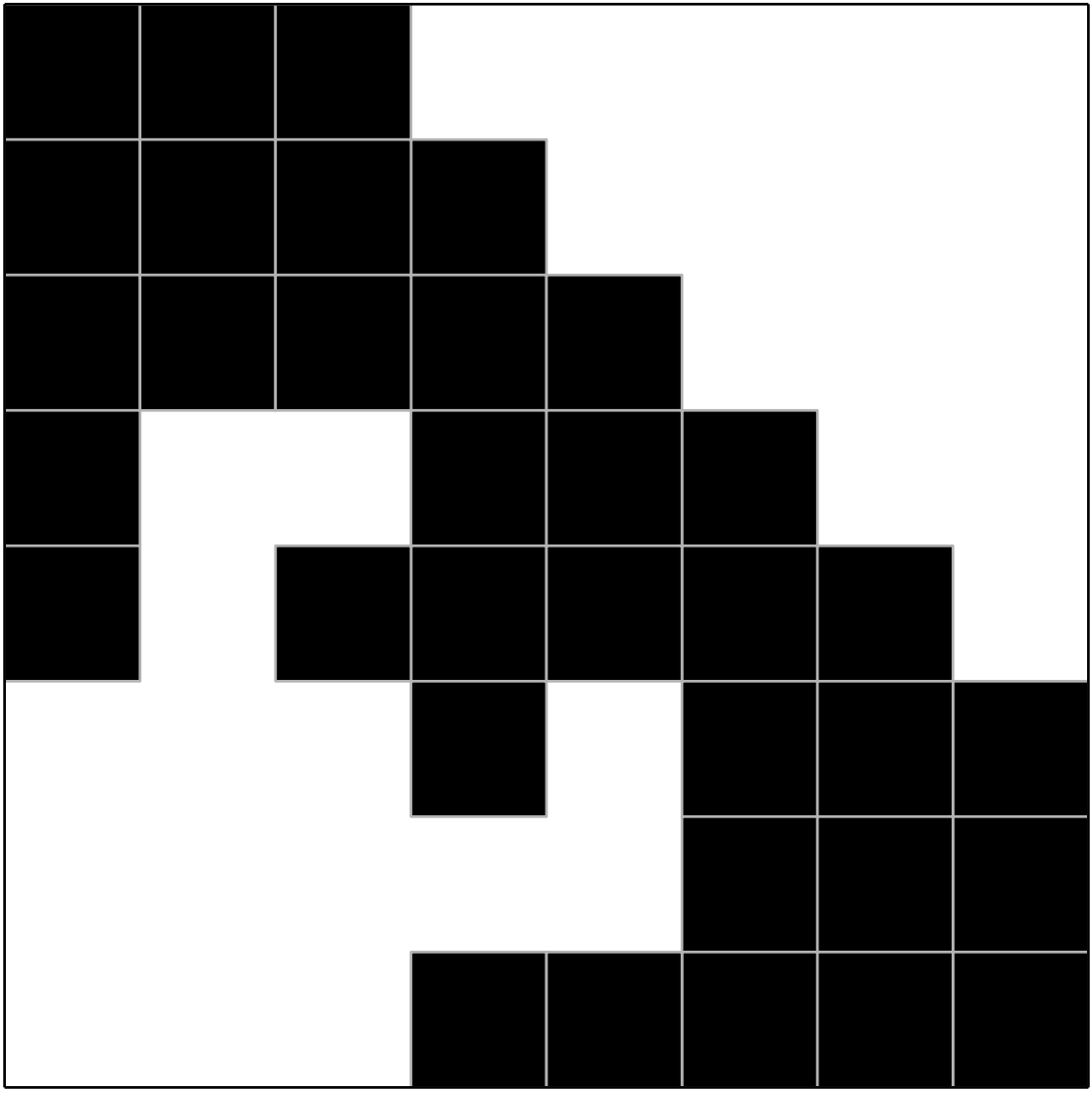

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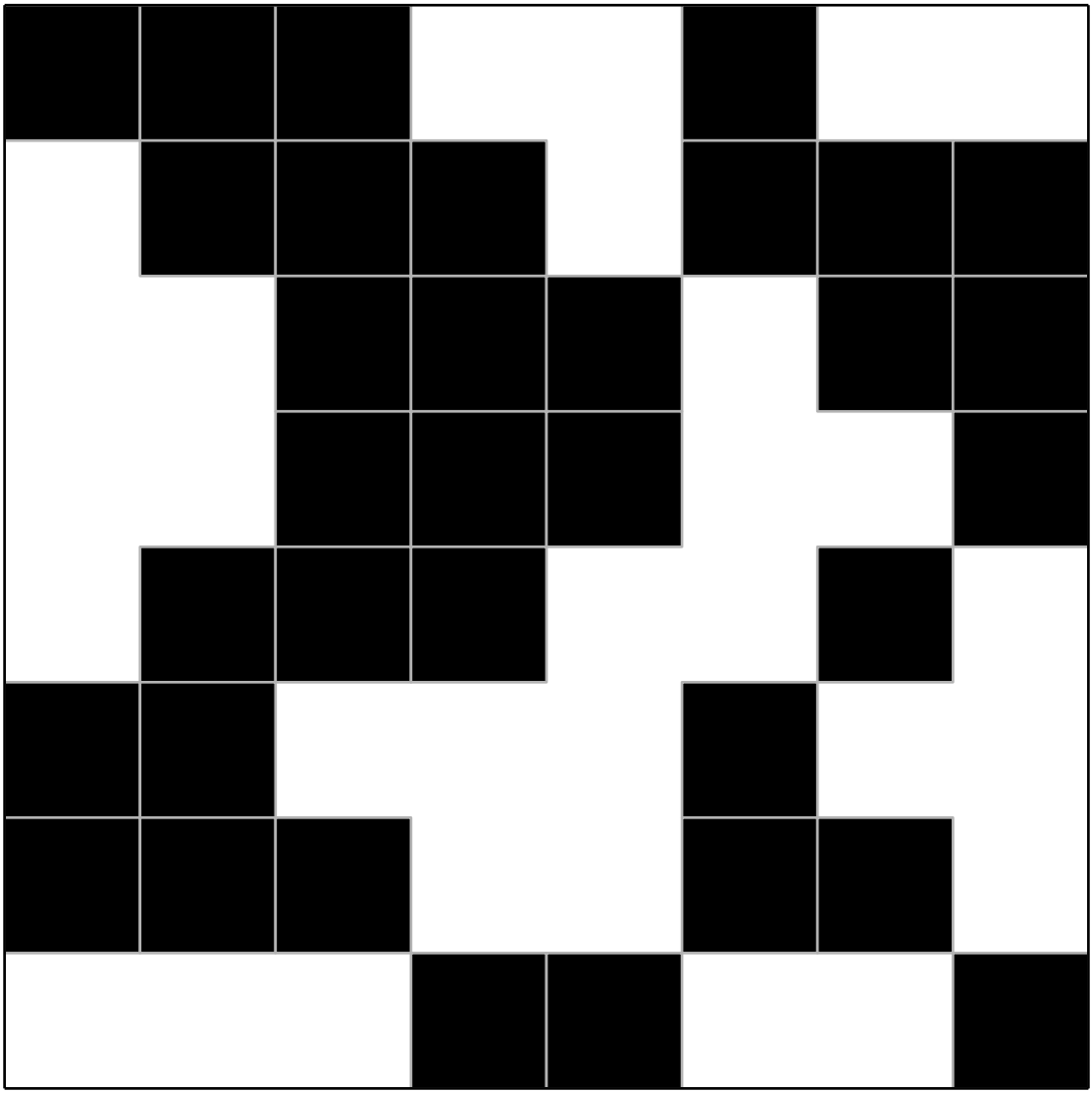

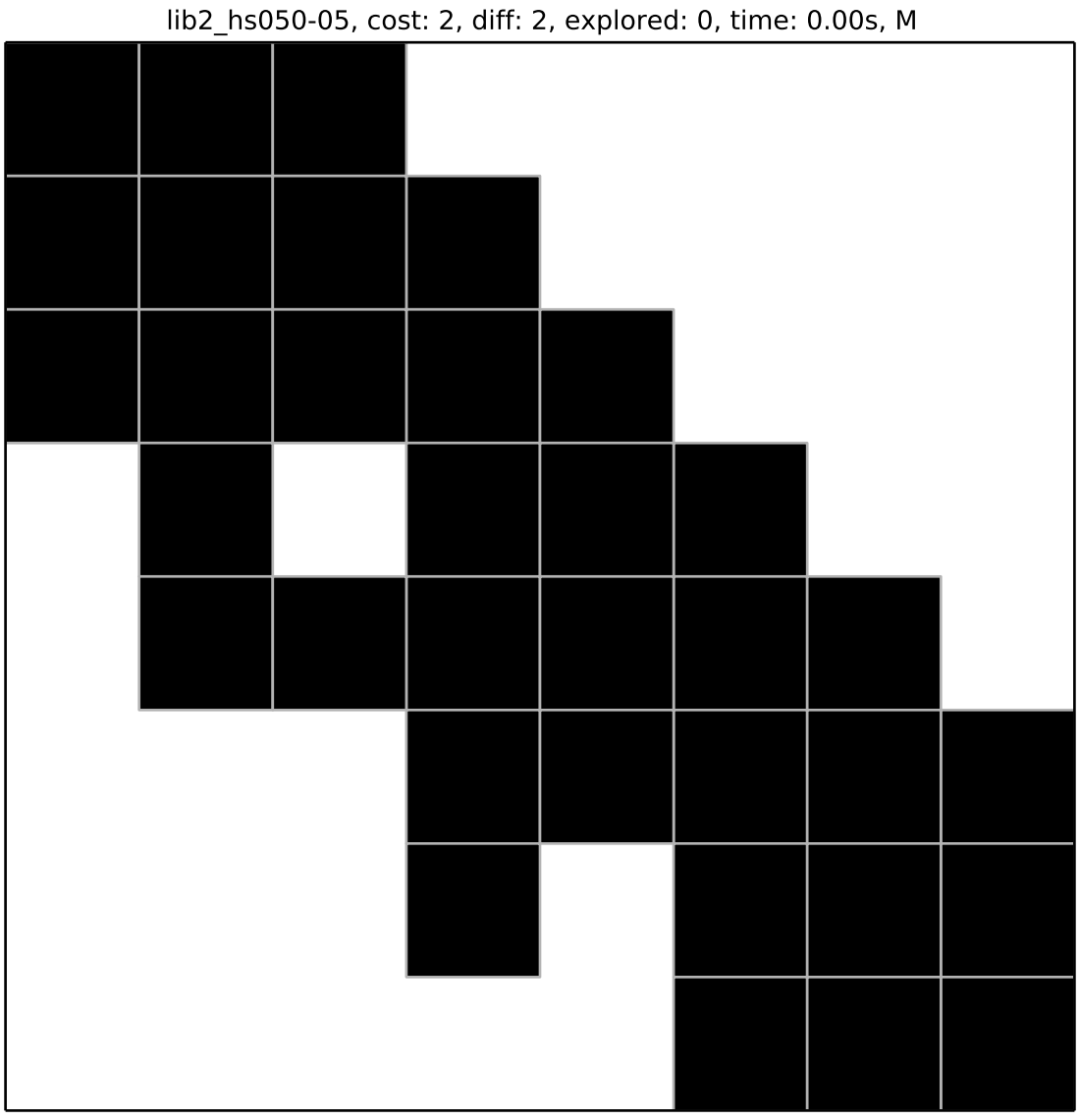
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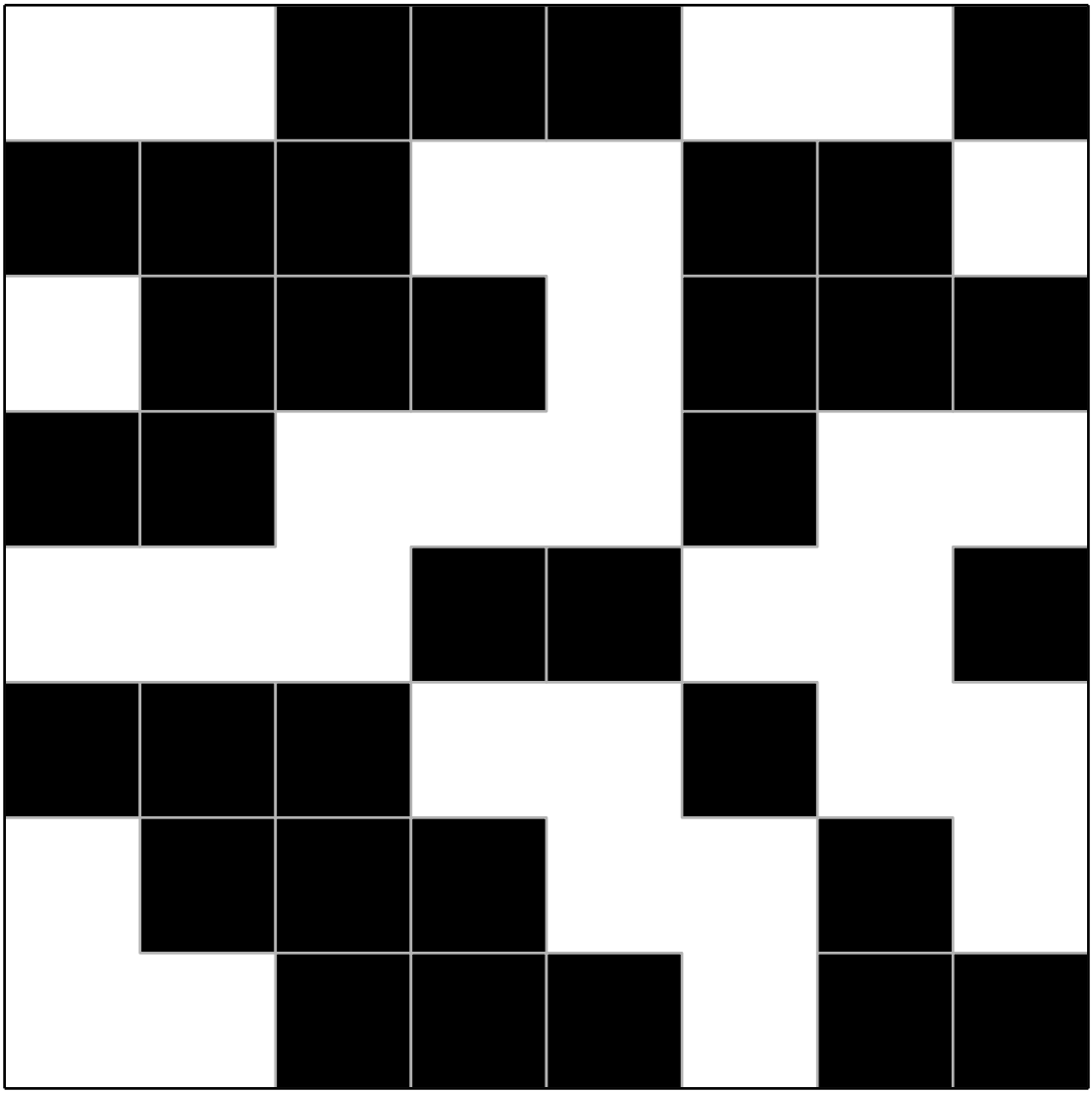
lib2_hs050-06 8x8 (34) con: 3, var: 5



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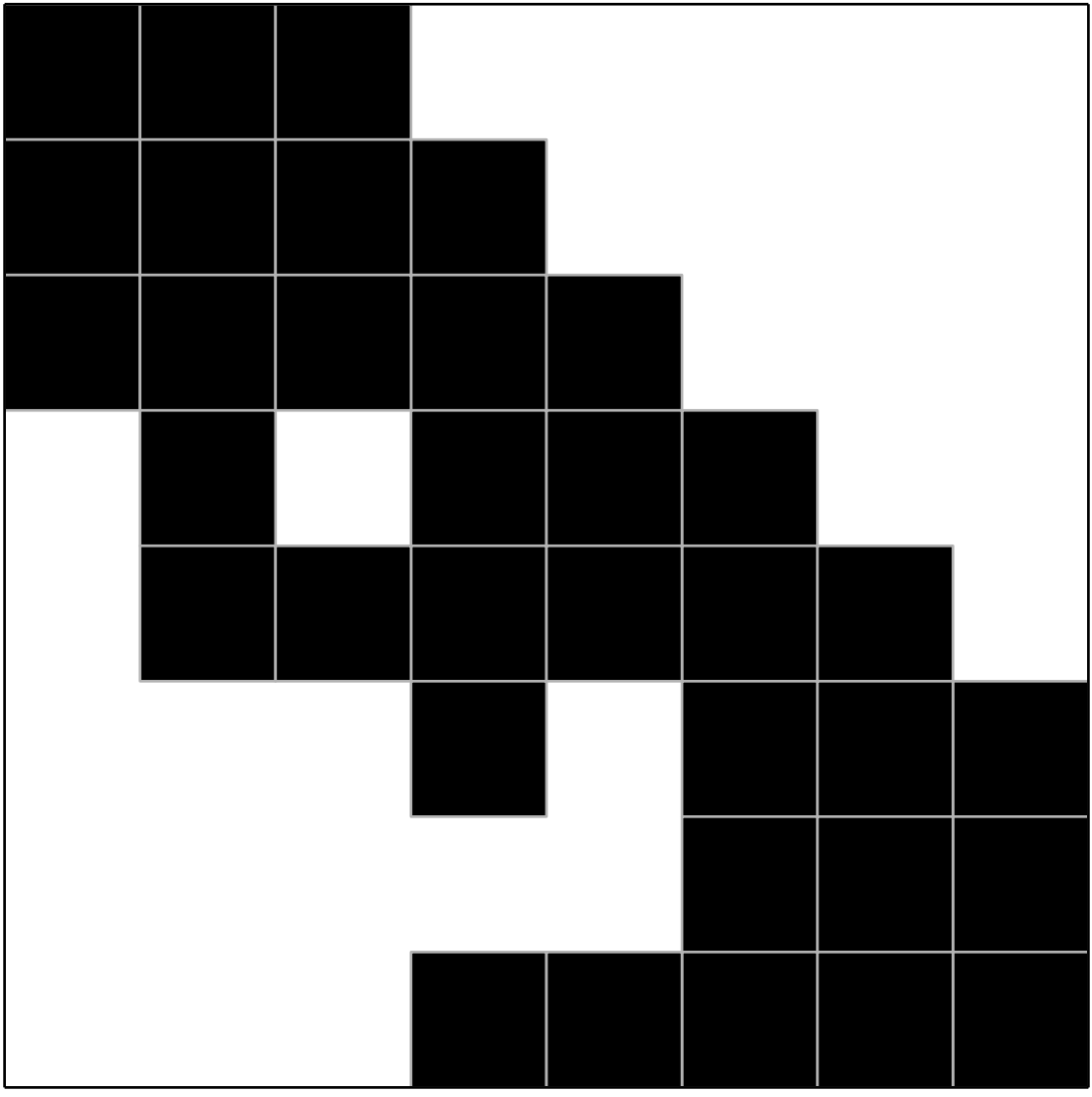
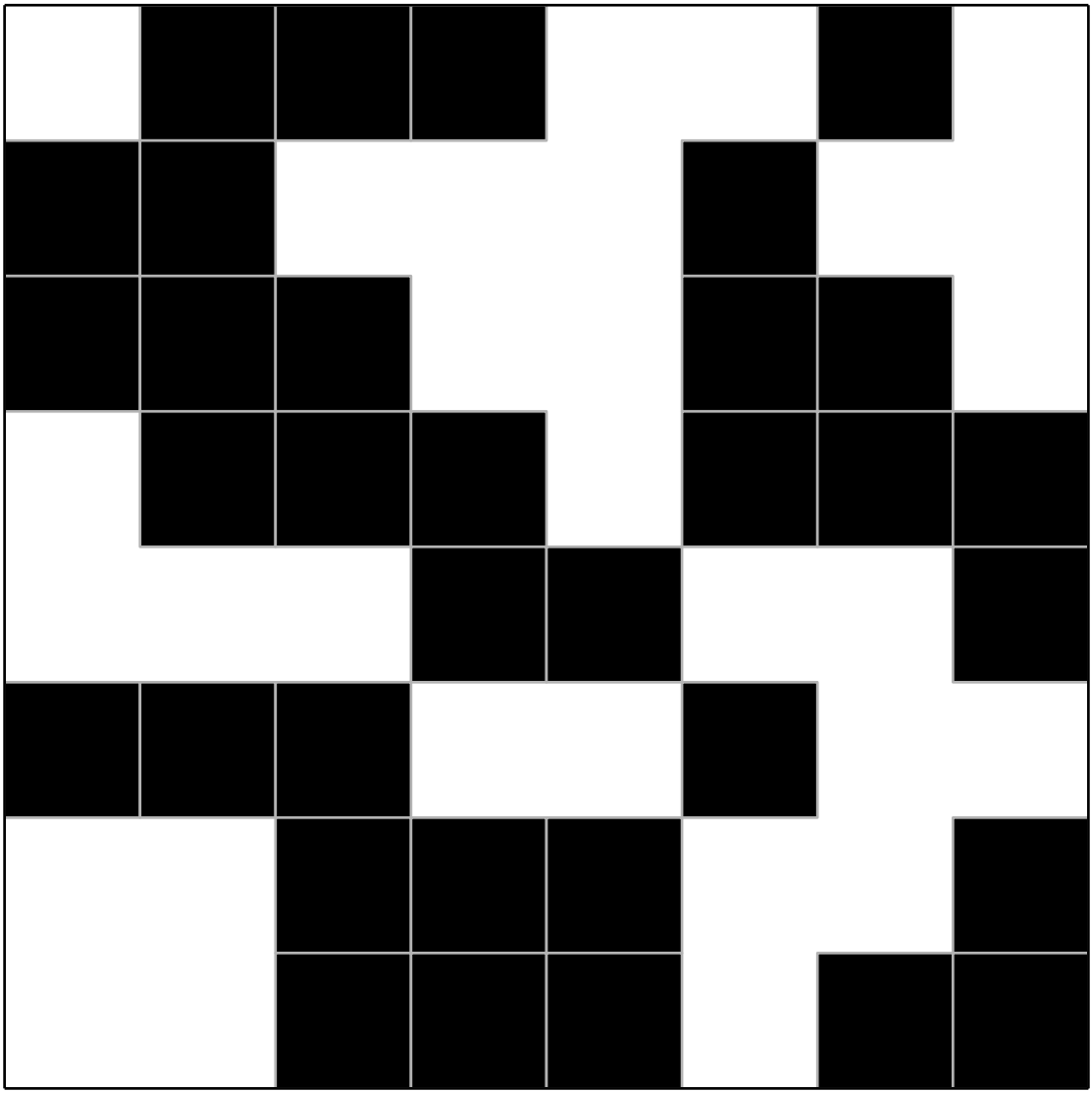


lib2_hs050-07 8x8 (34) con: 3, var: 5



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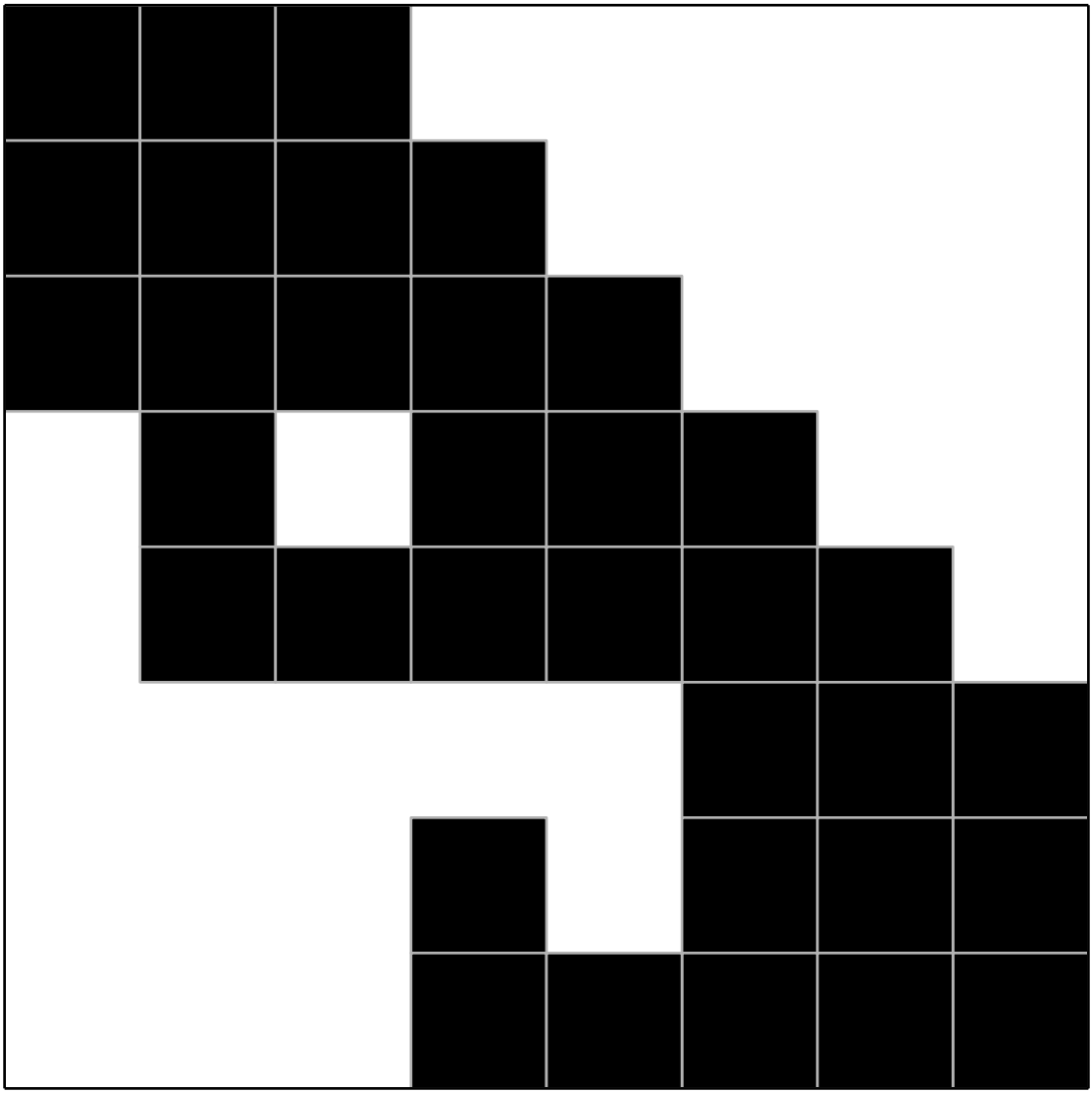
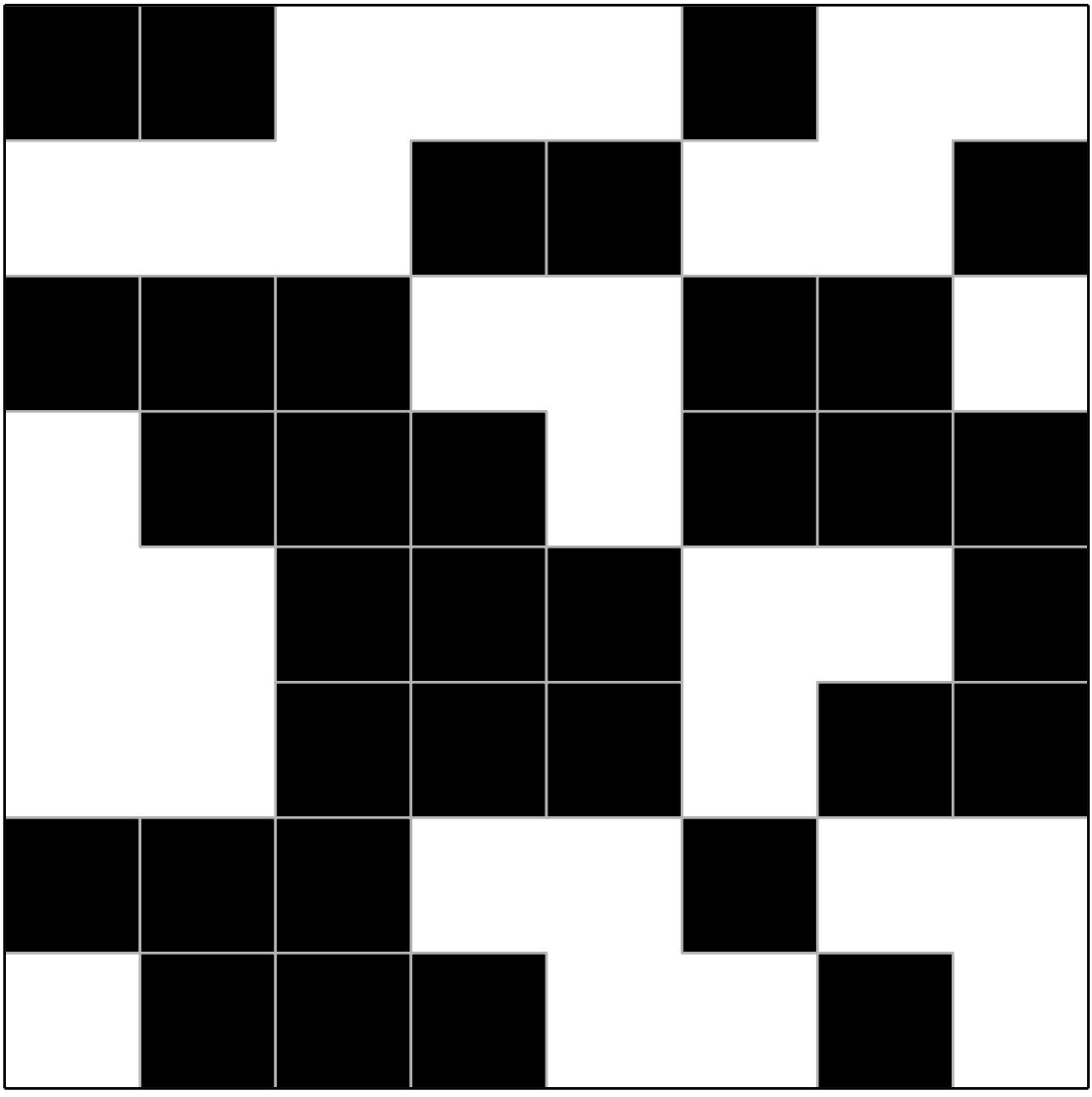


lib2_hs050-08 8x8 (34) con: 3, var: 5



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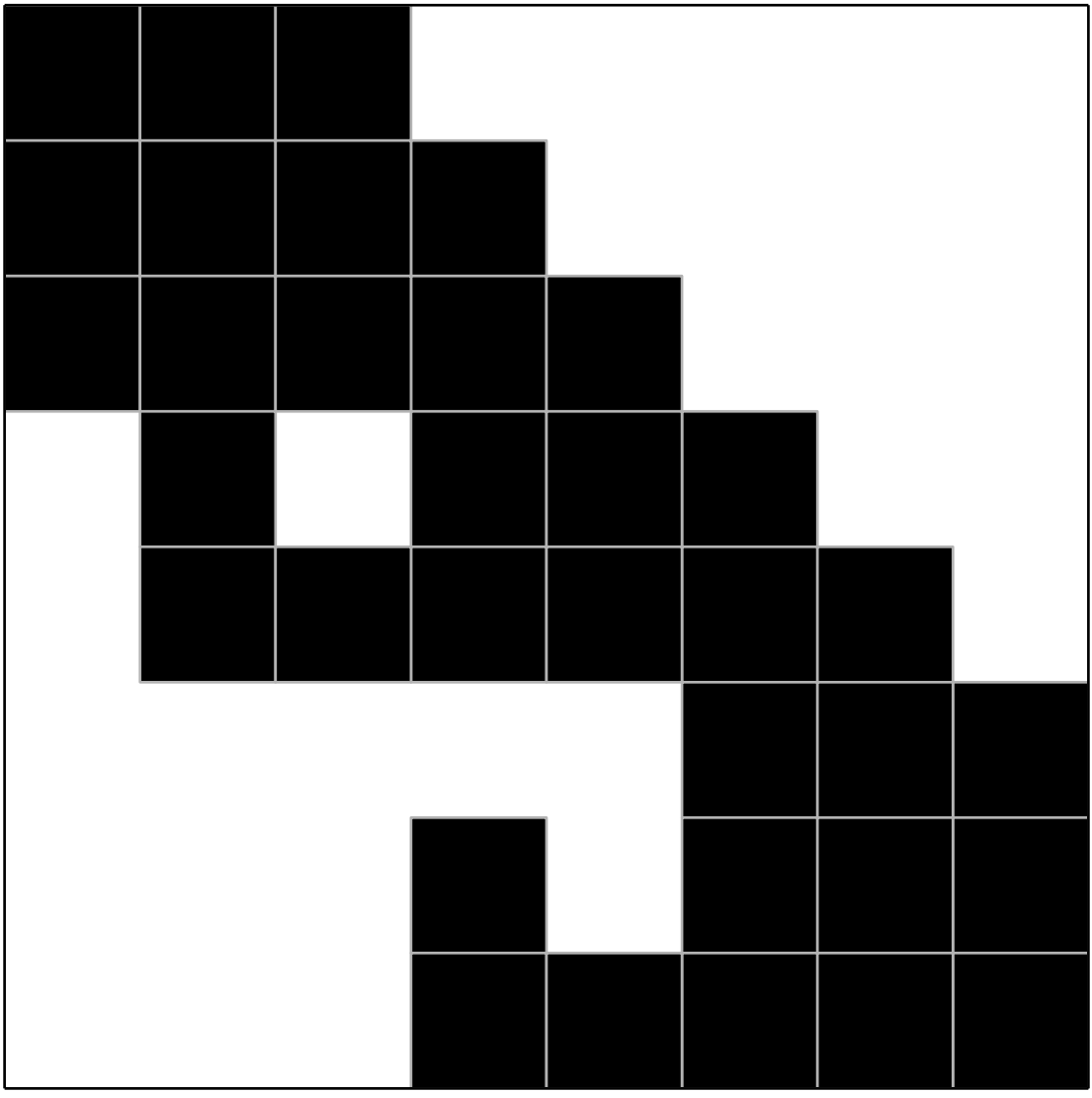

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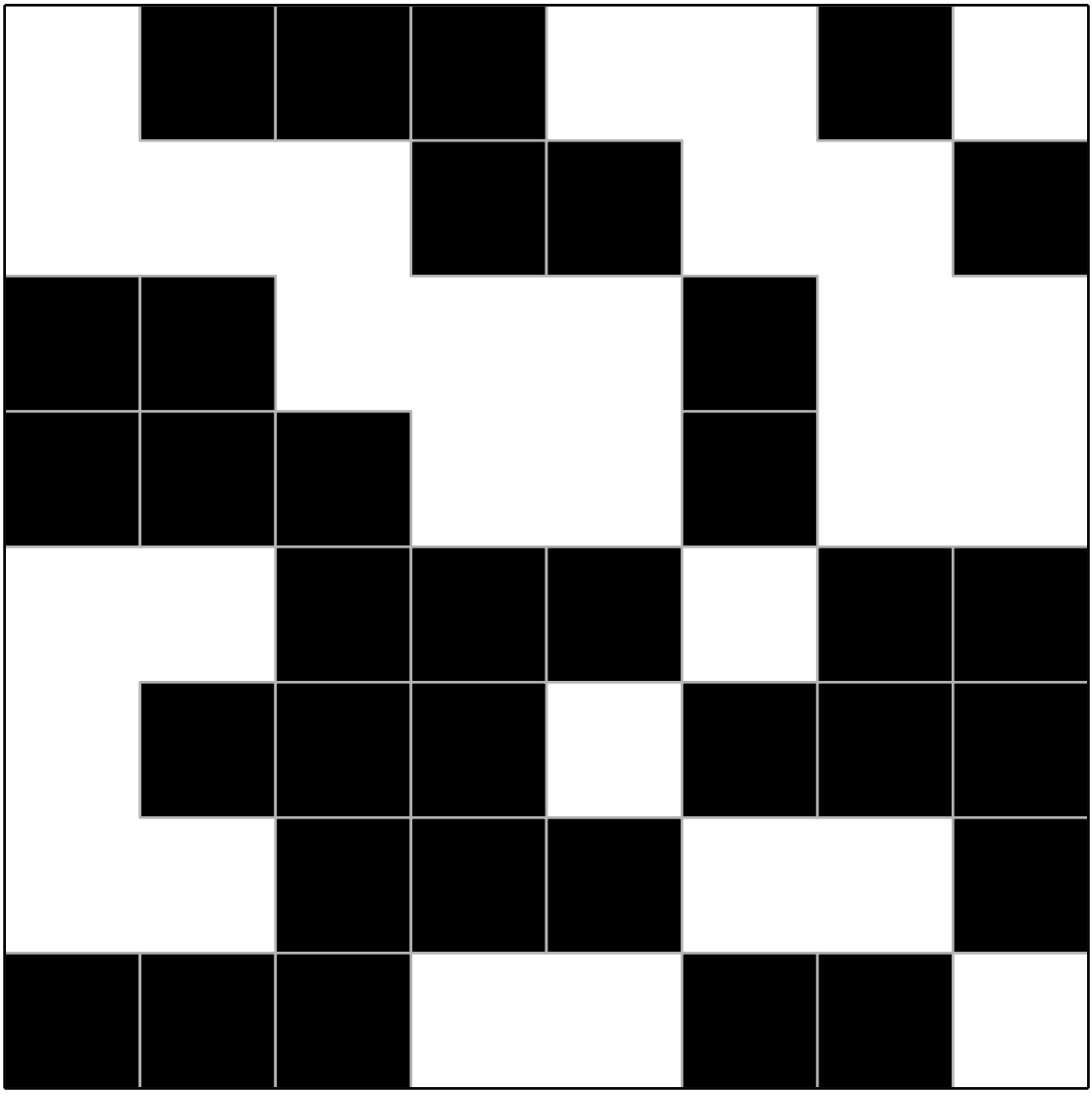

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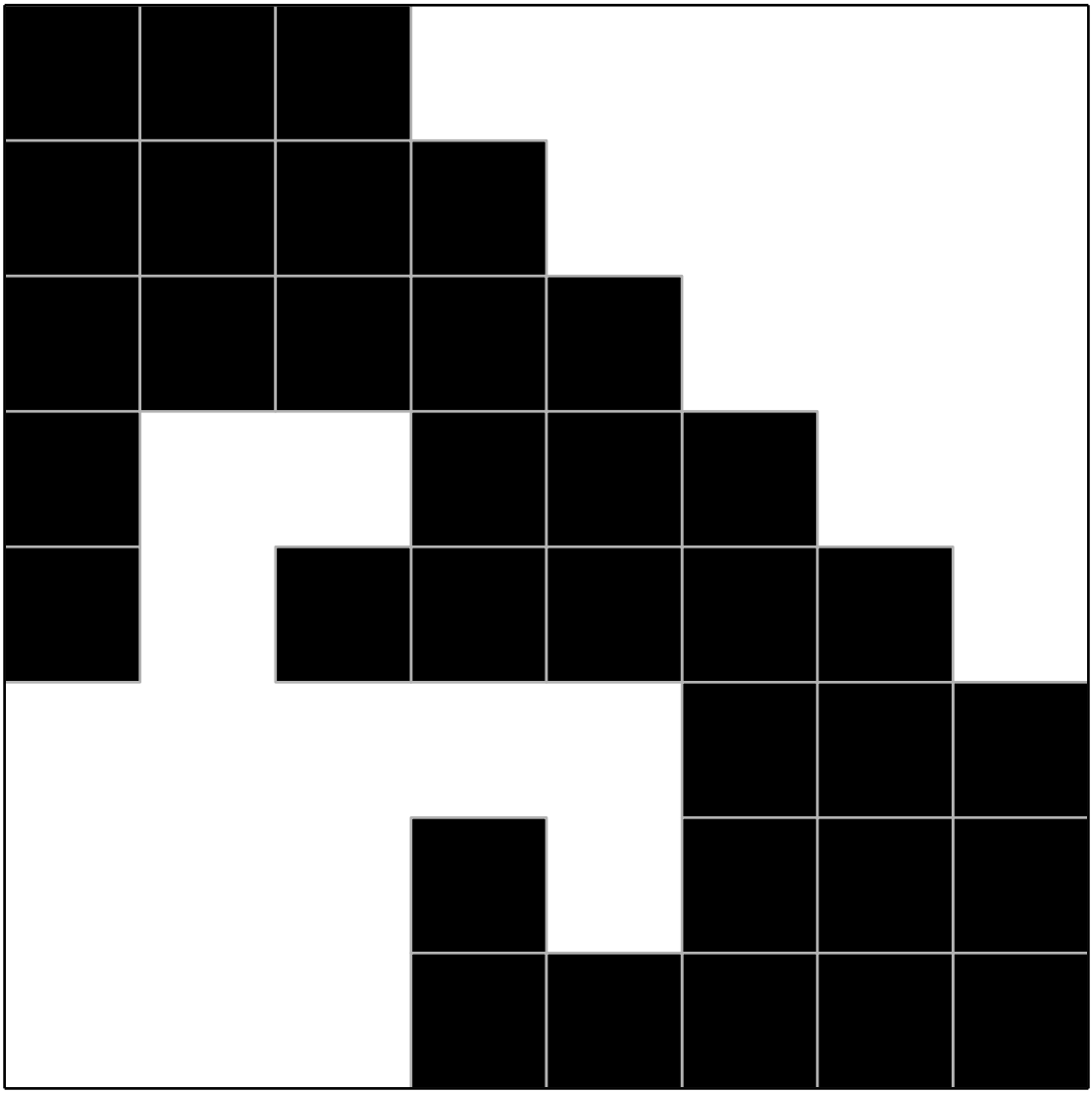
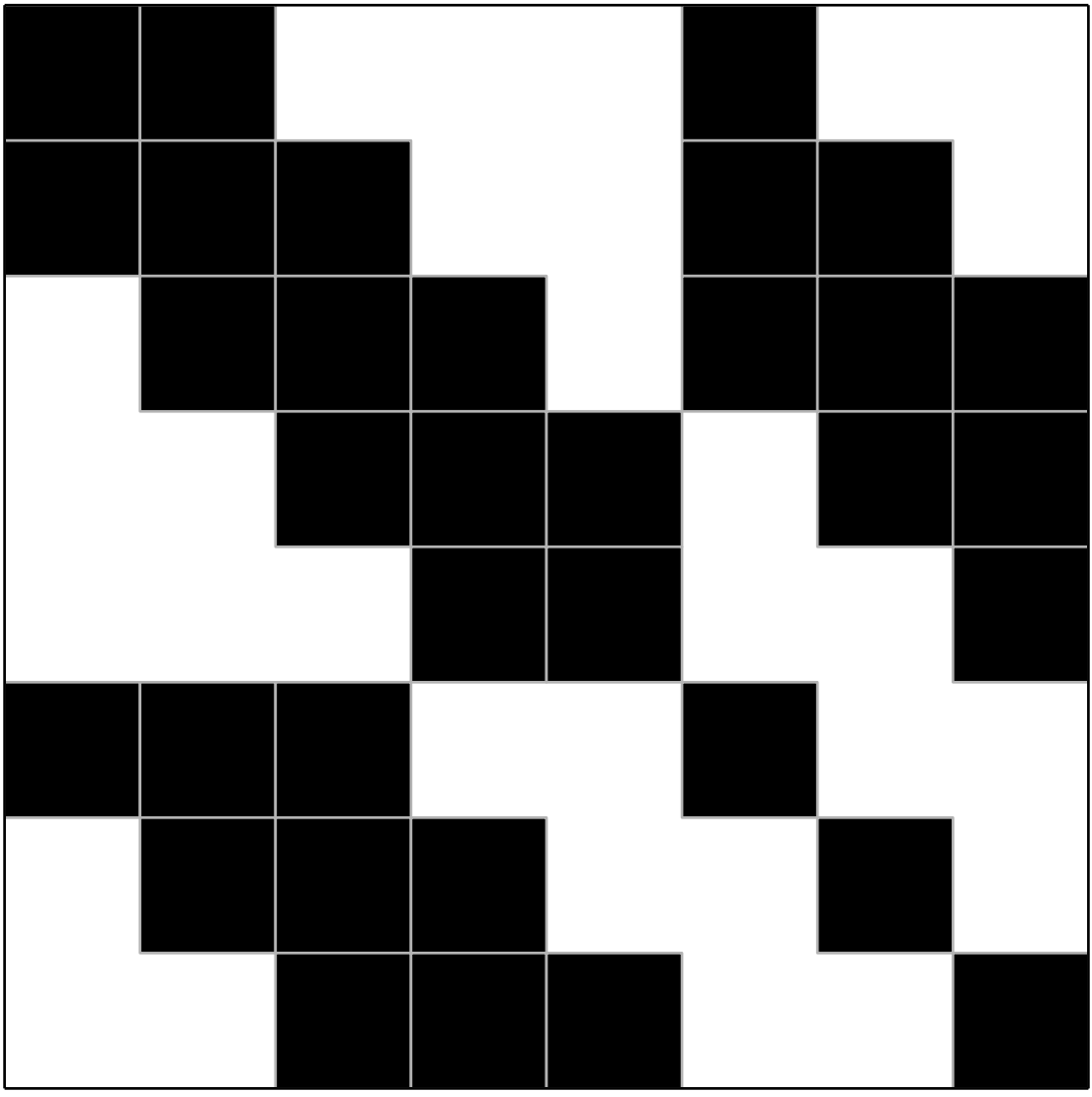
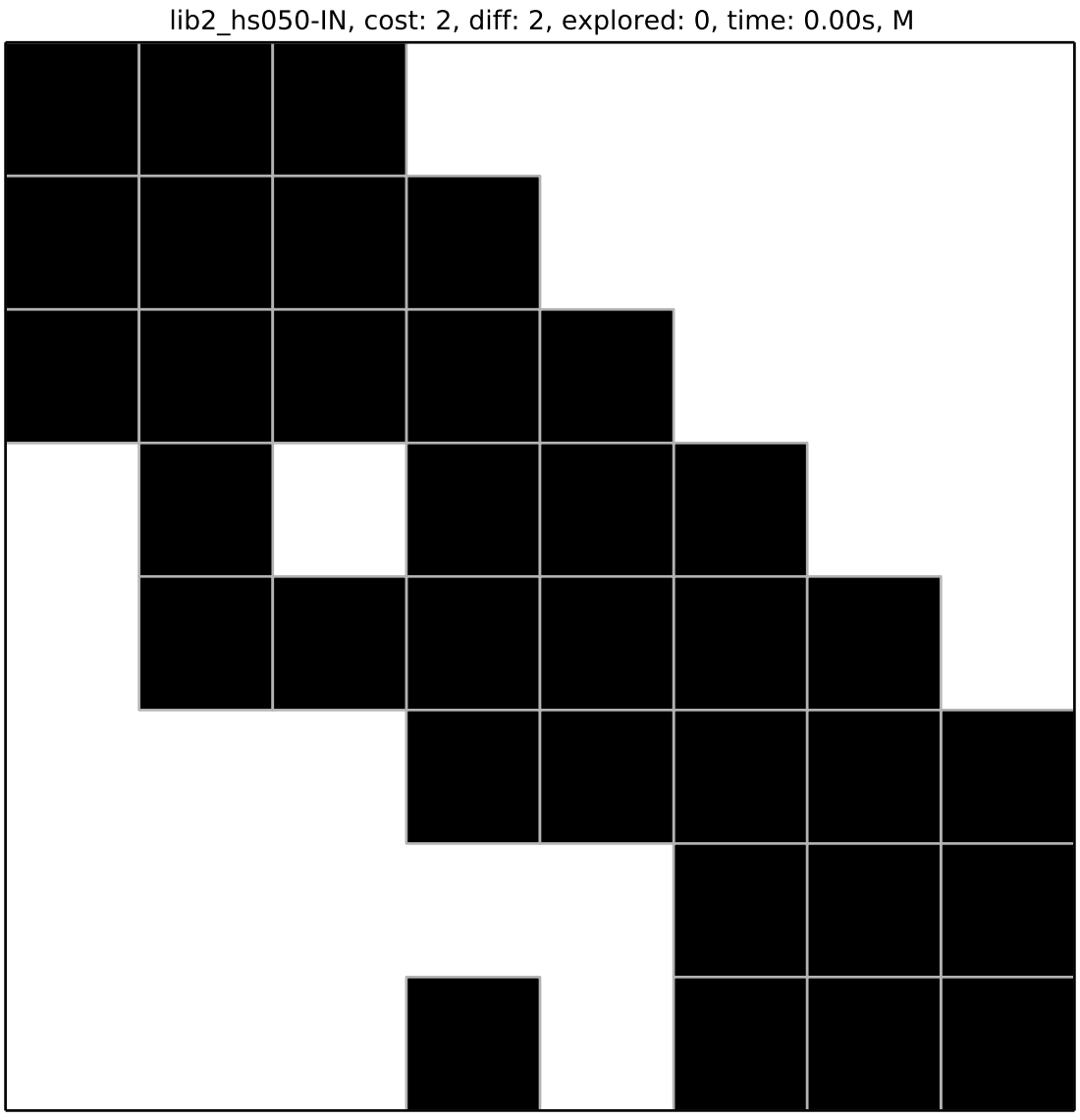


lib2_hs050-IN 8x8 (34) con: 3, var: 5

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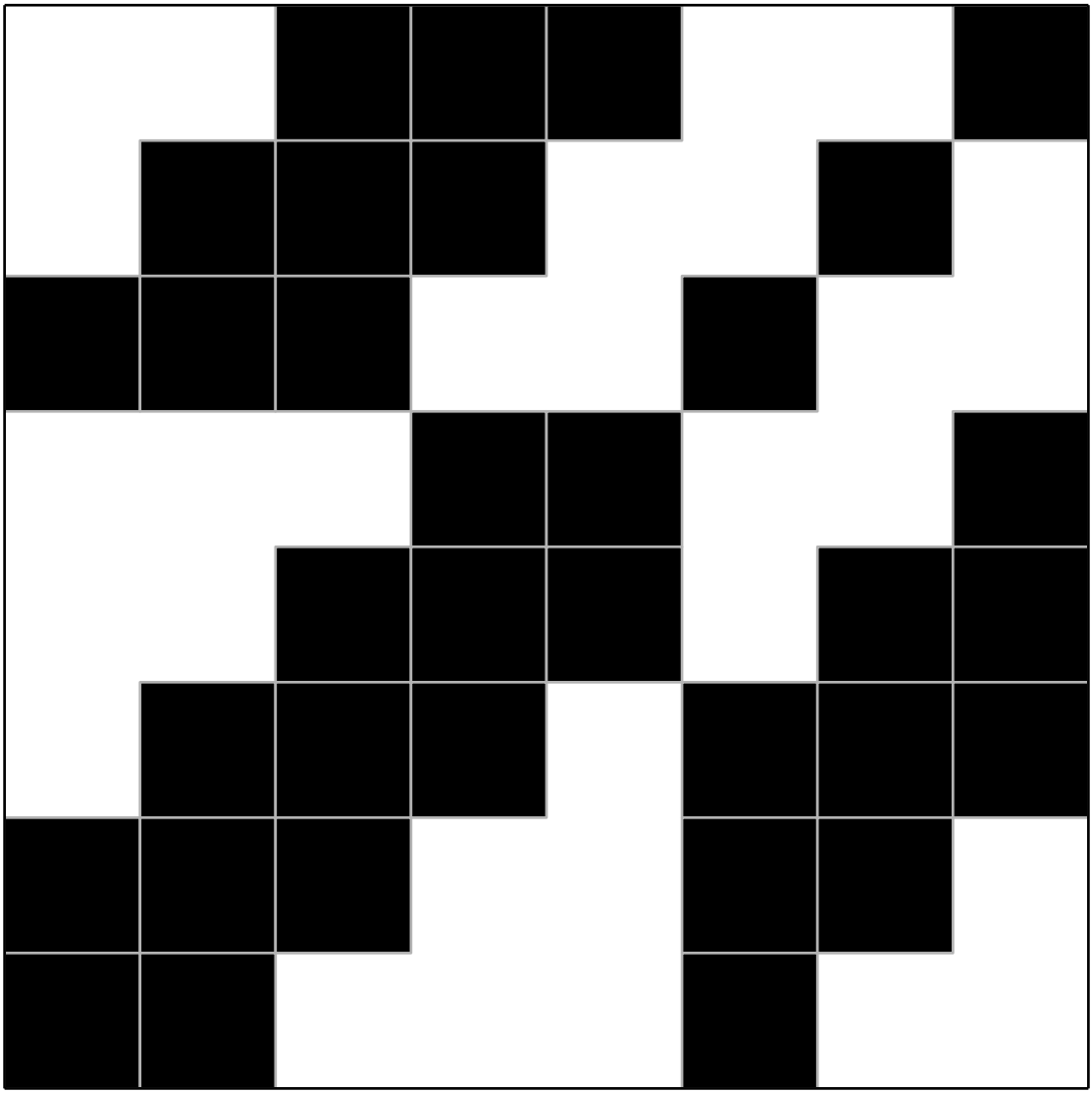
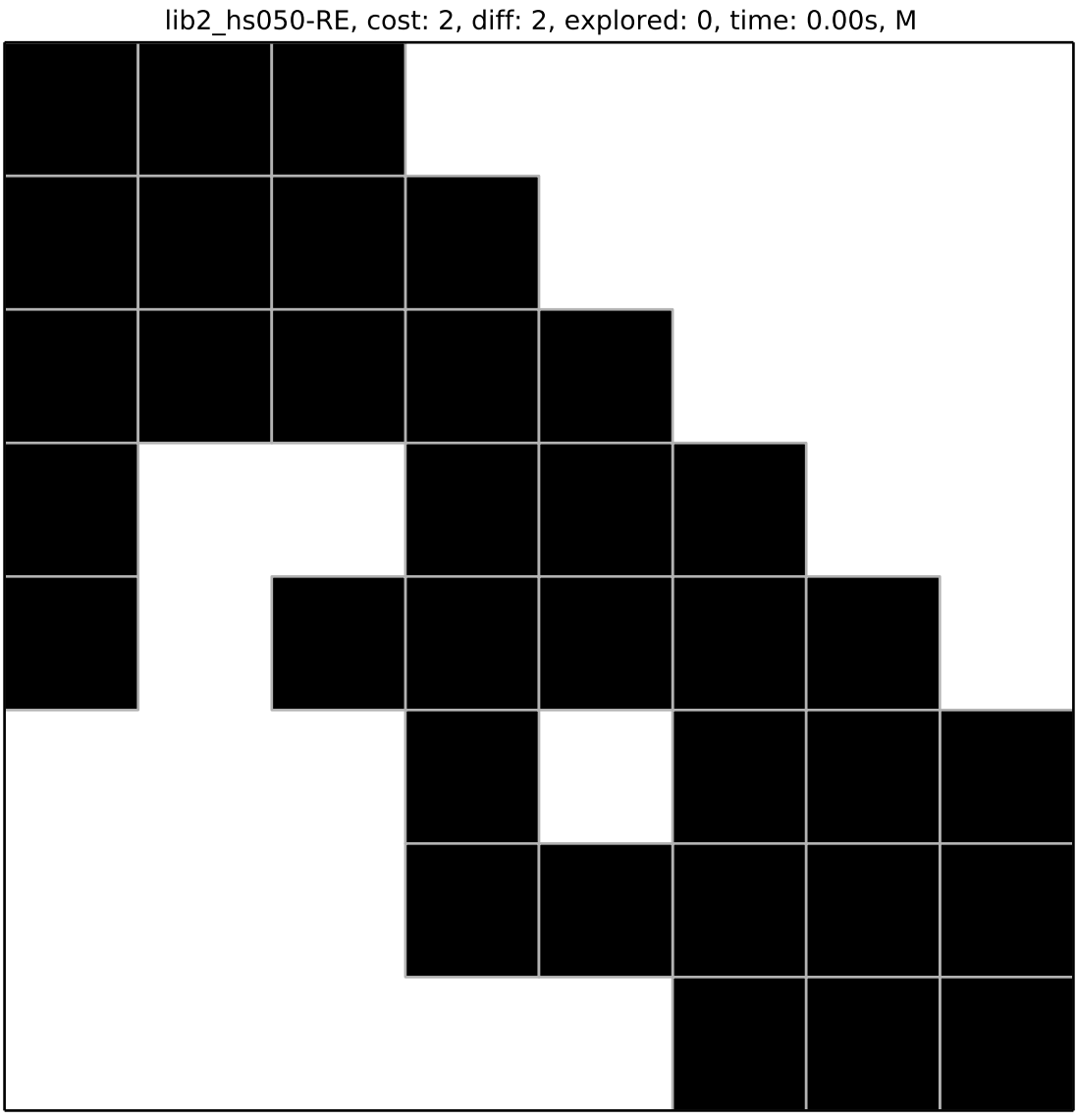
lib2_hs050-RE 8x8 (34) con: 3, var: 5

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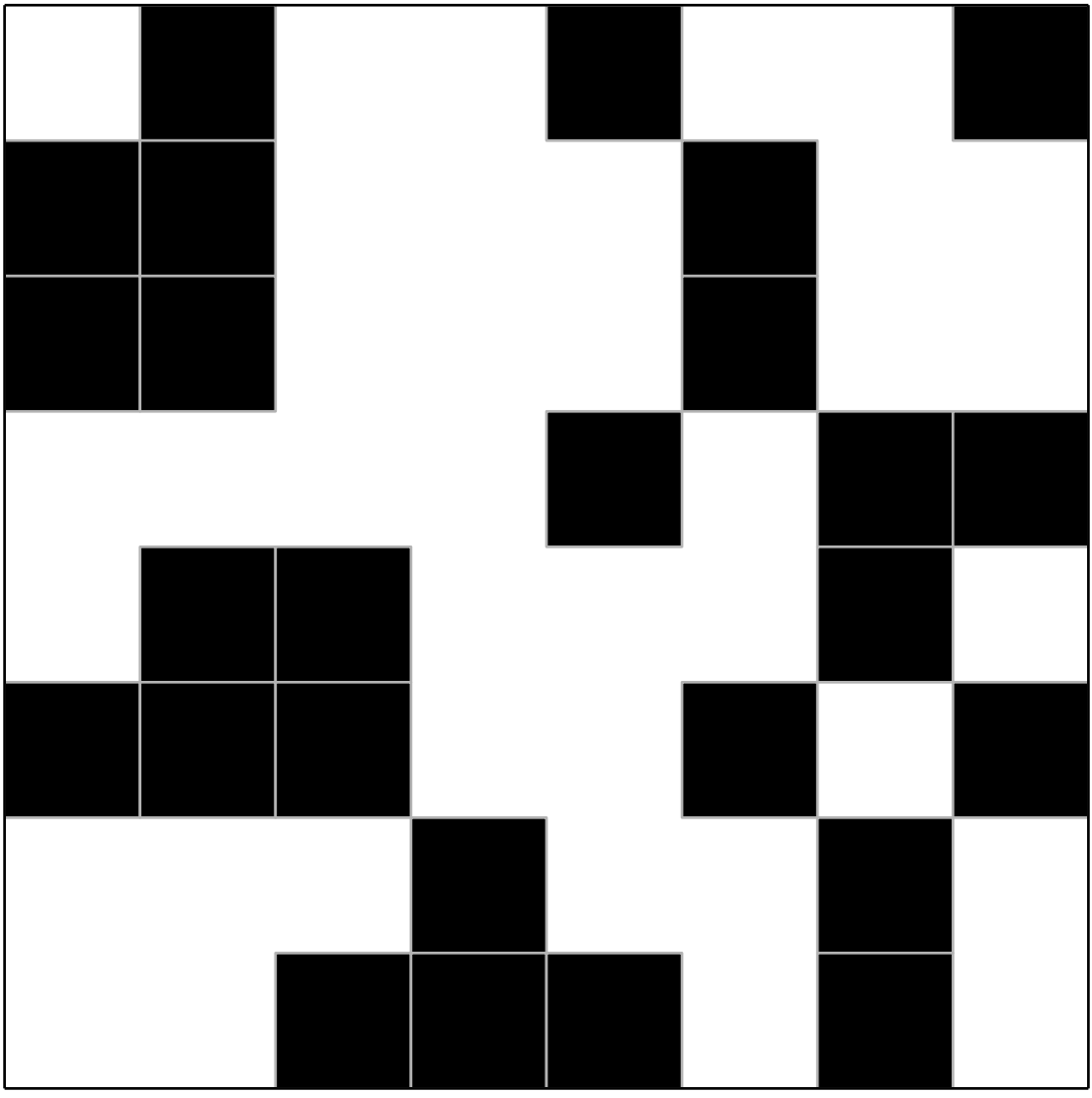
lib2_hs051-00 8x8 (26) con: 3, var: 5



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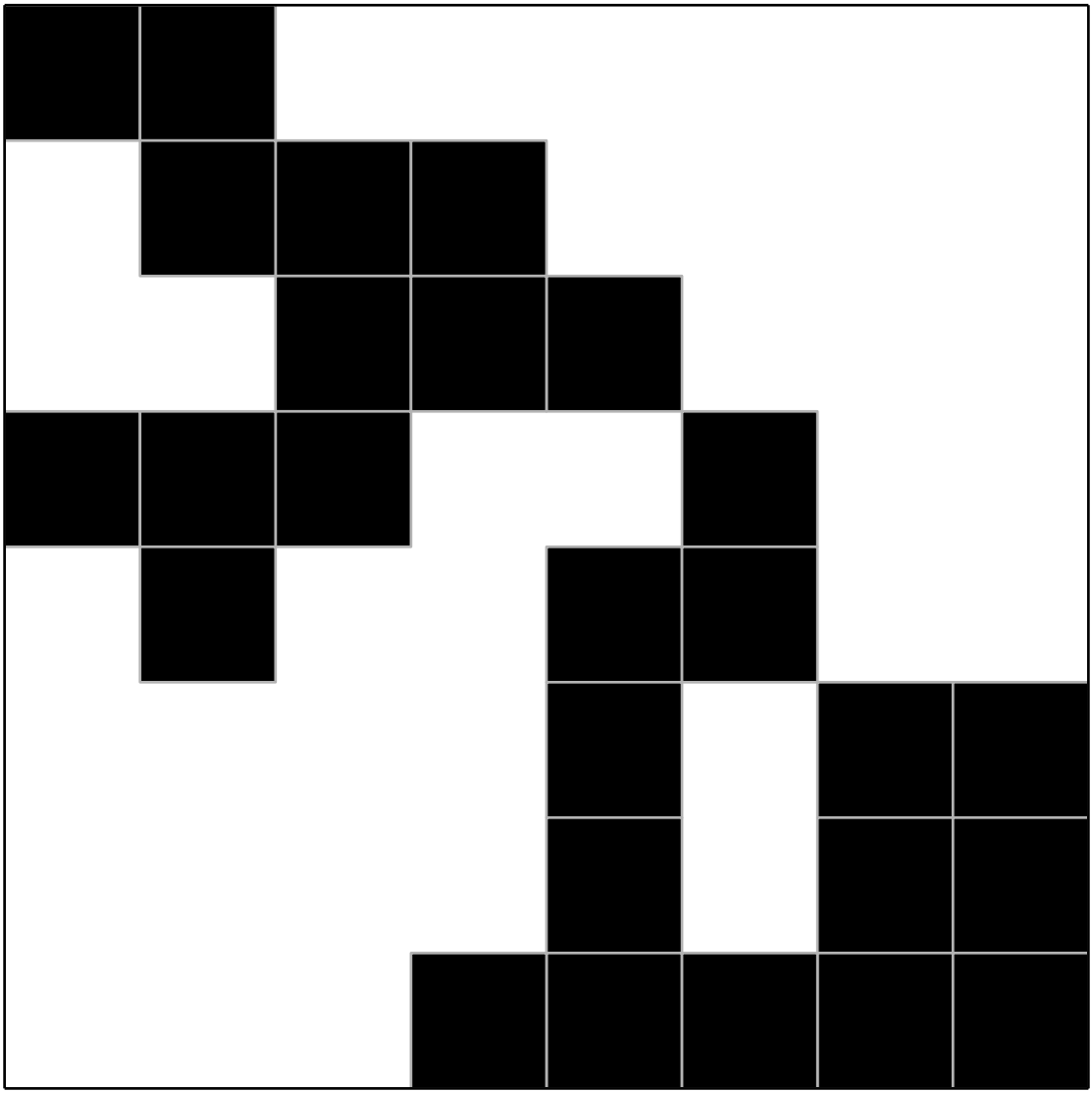
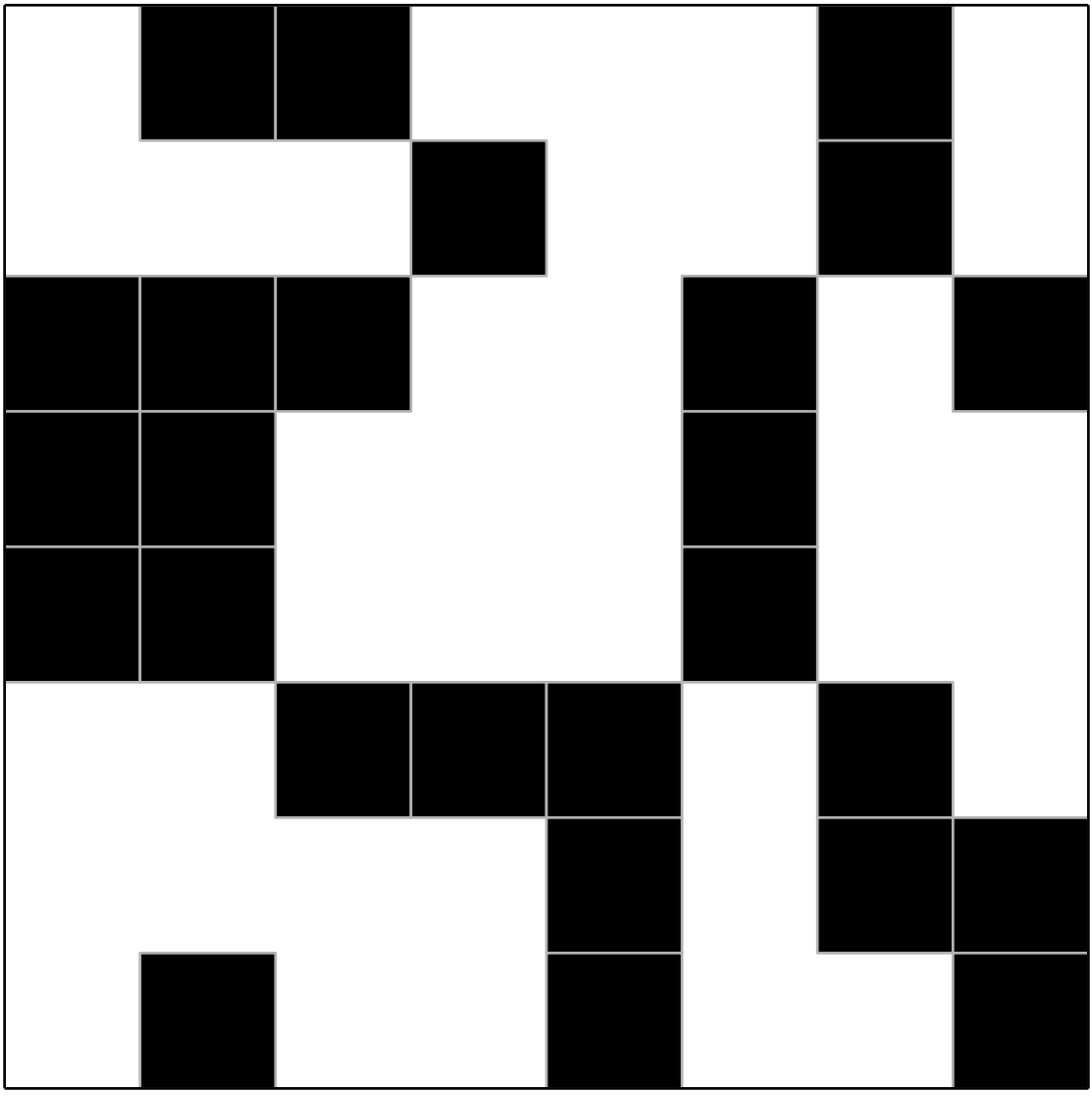
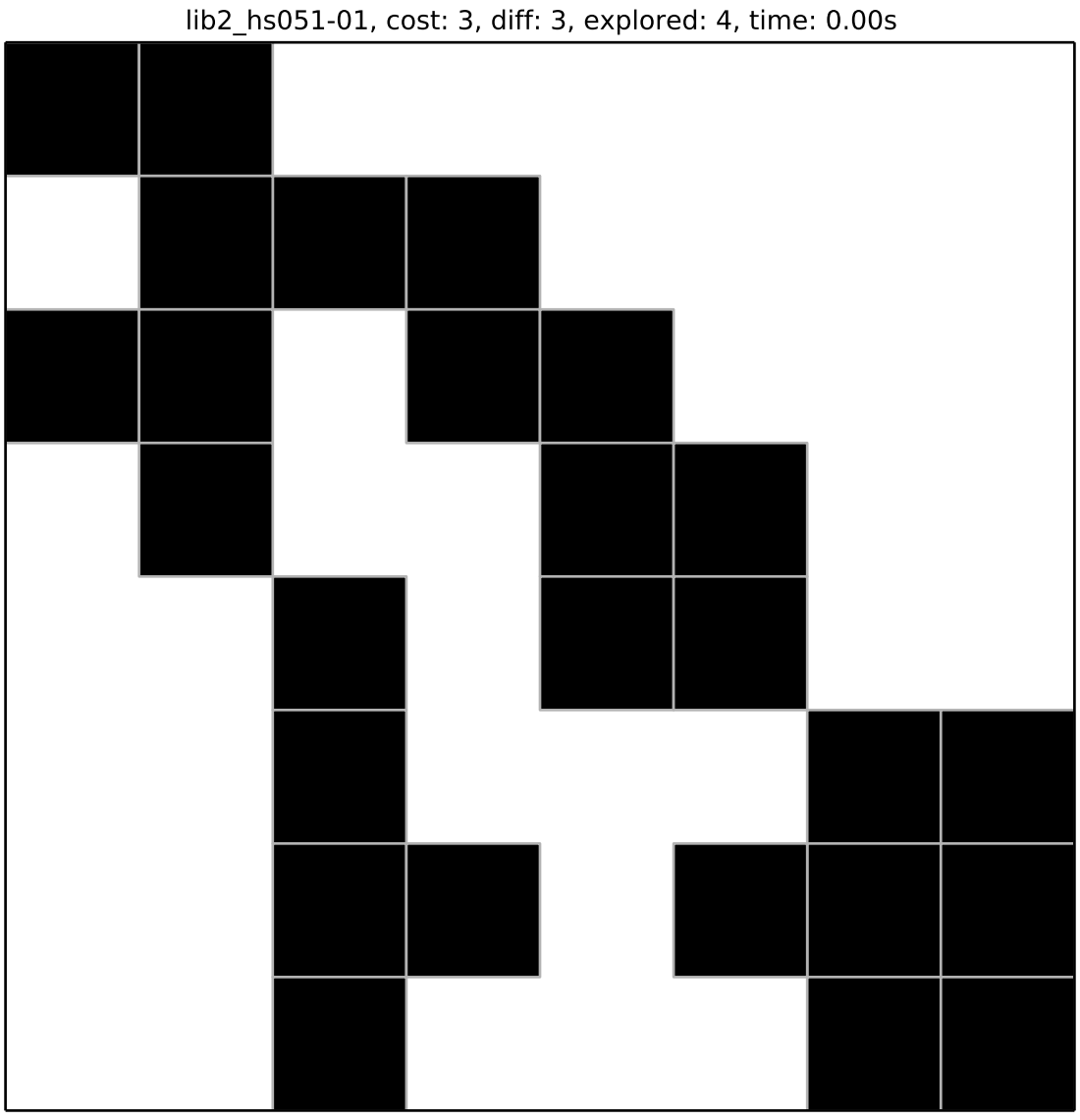


lib2_hs051-01 8x8 (26) con: 3, var: 5

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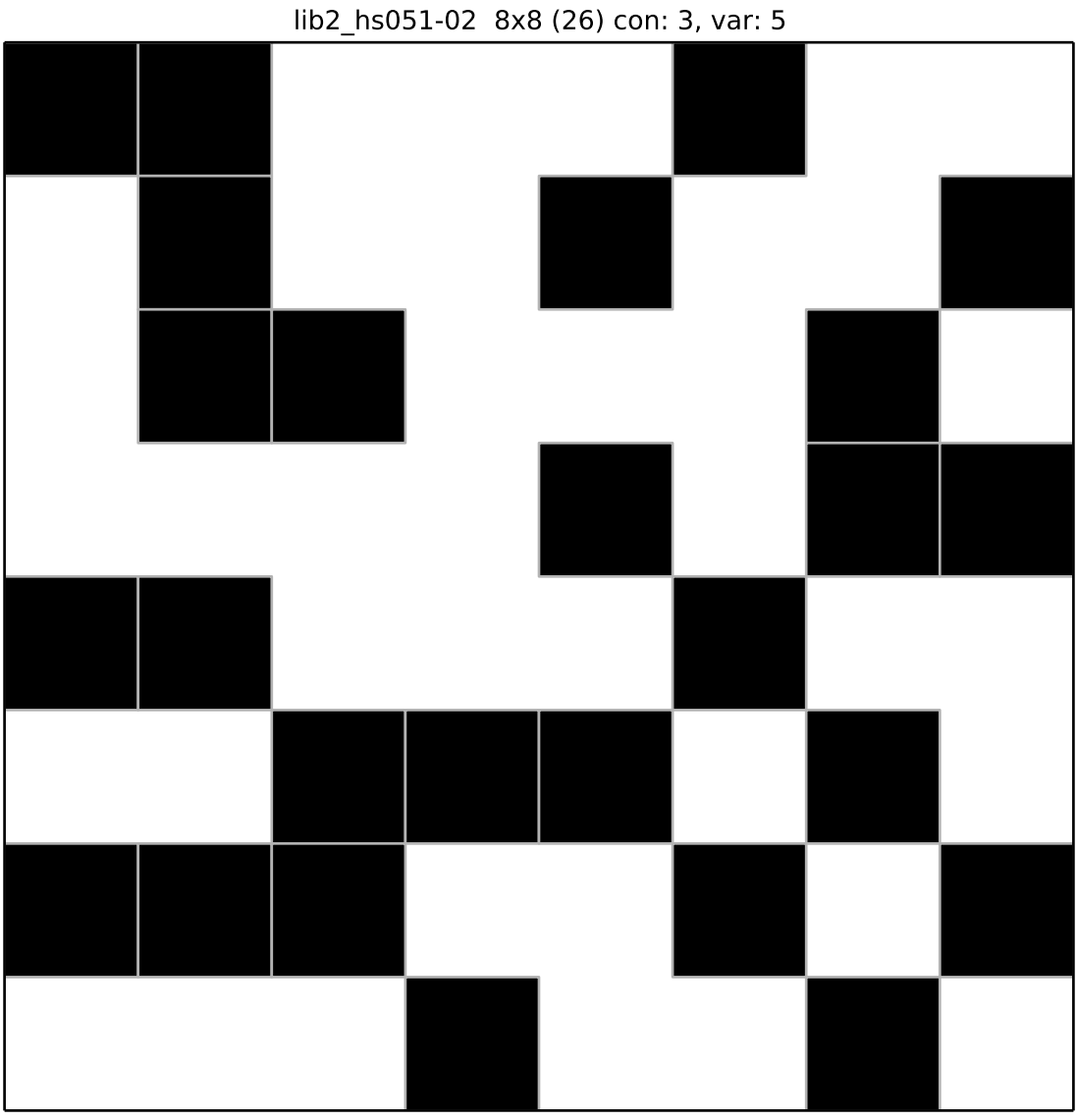
lib2_hs051-02 8x8 (26) con: 3, var: 5

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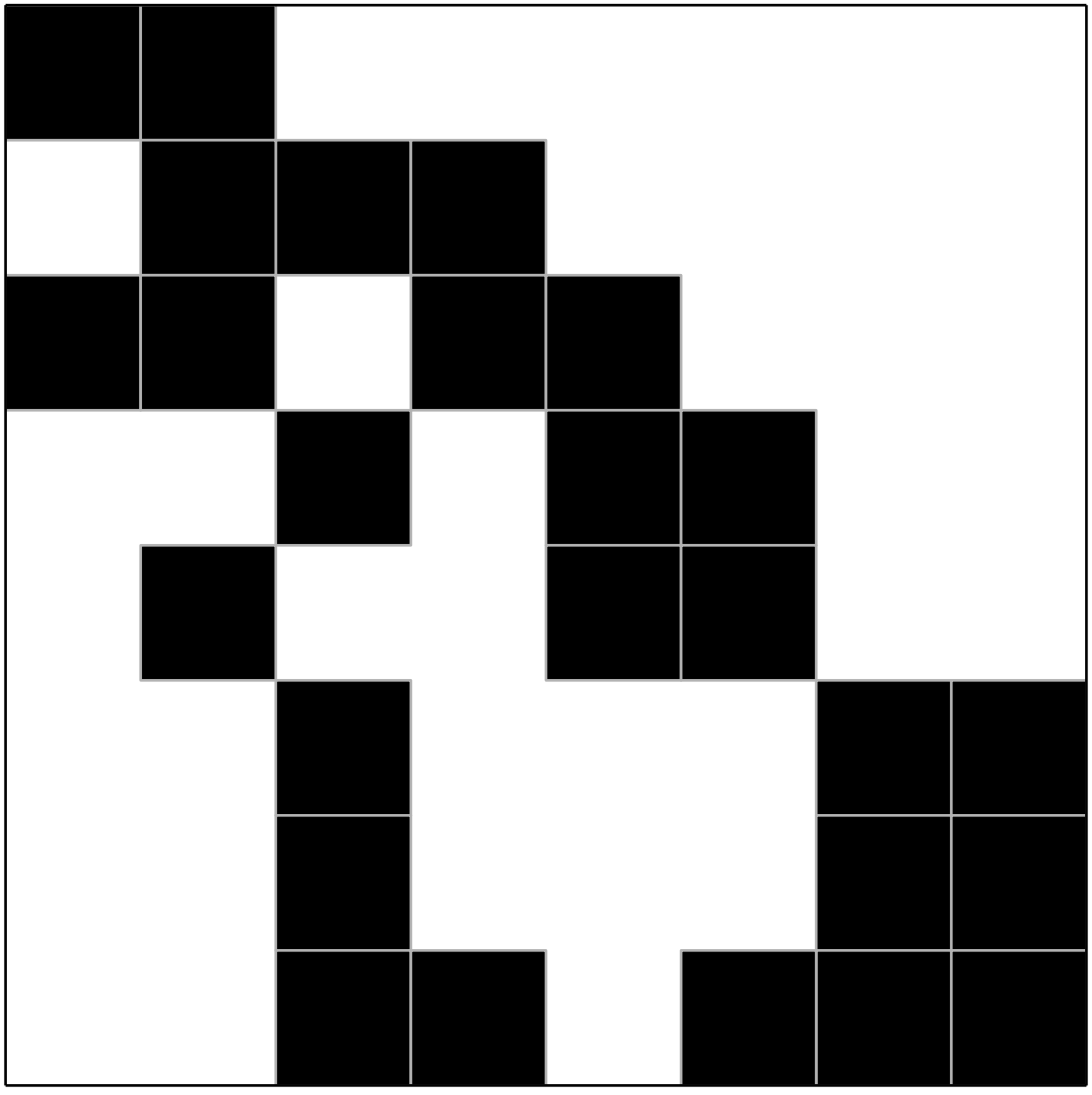

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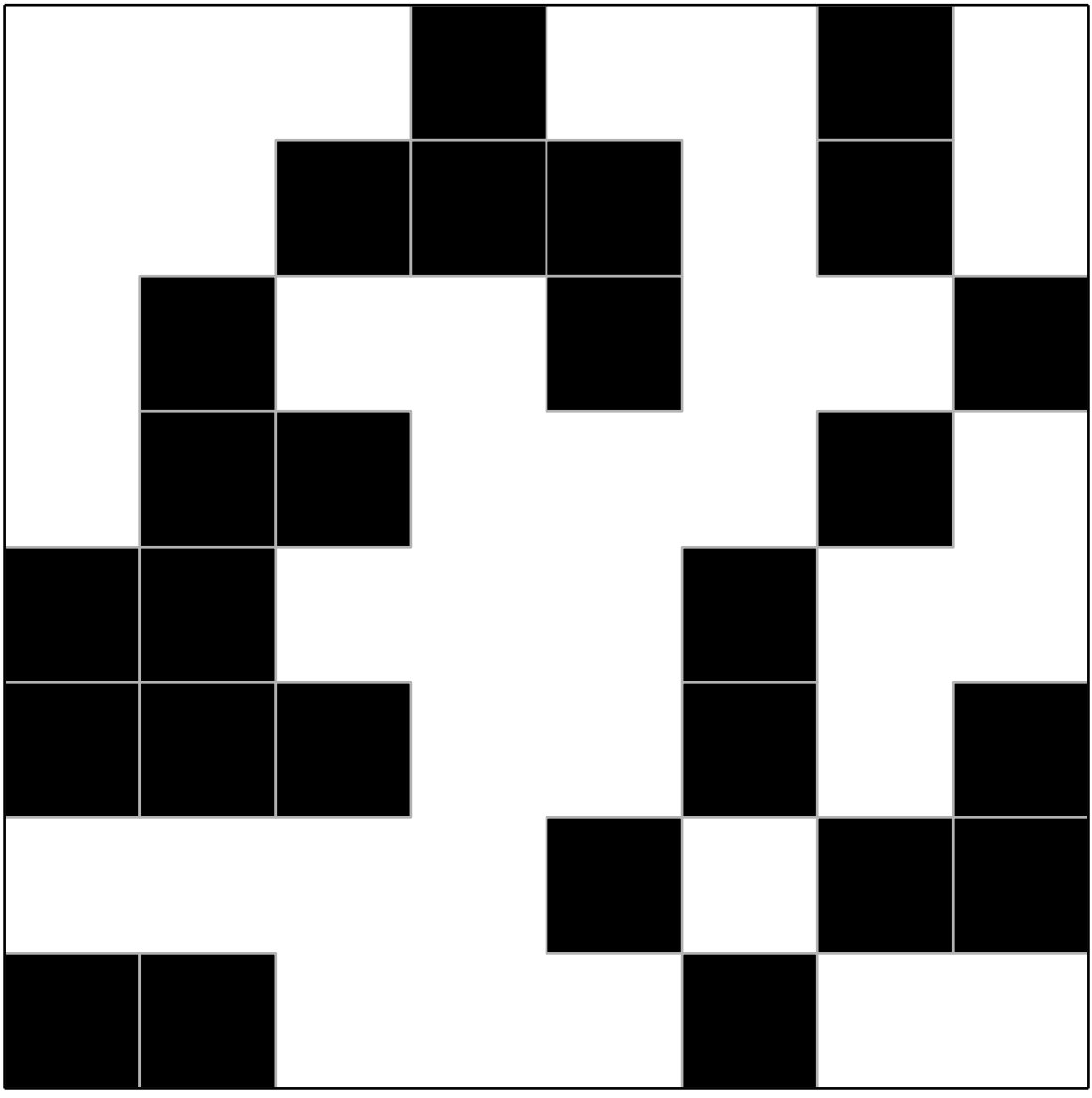

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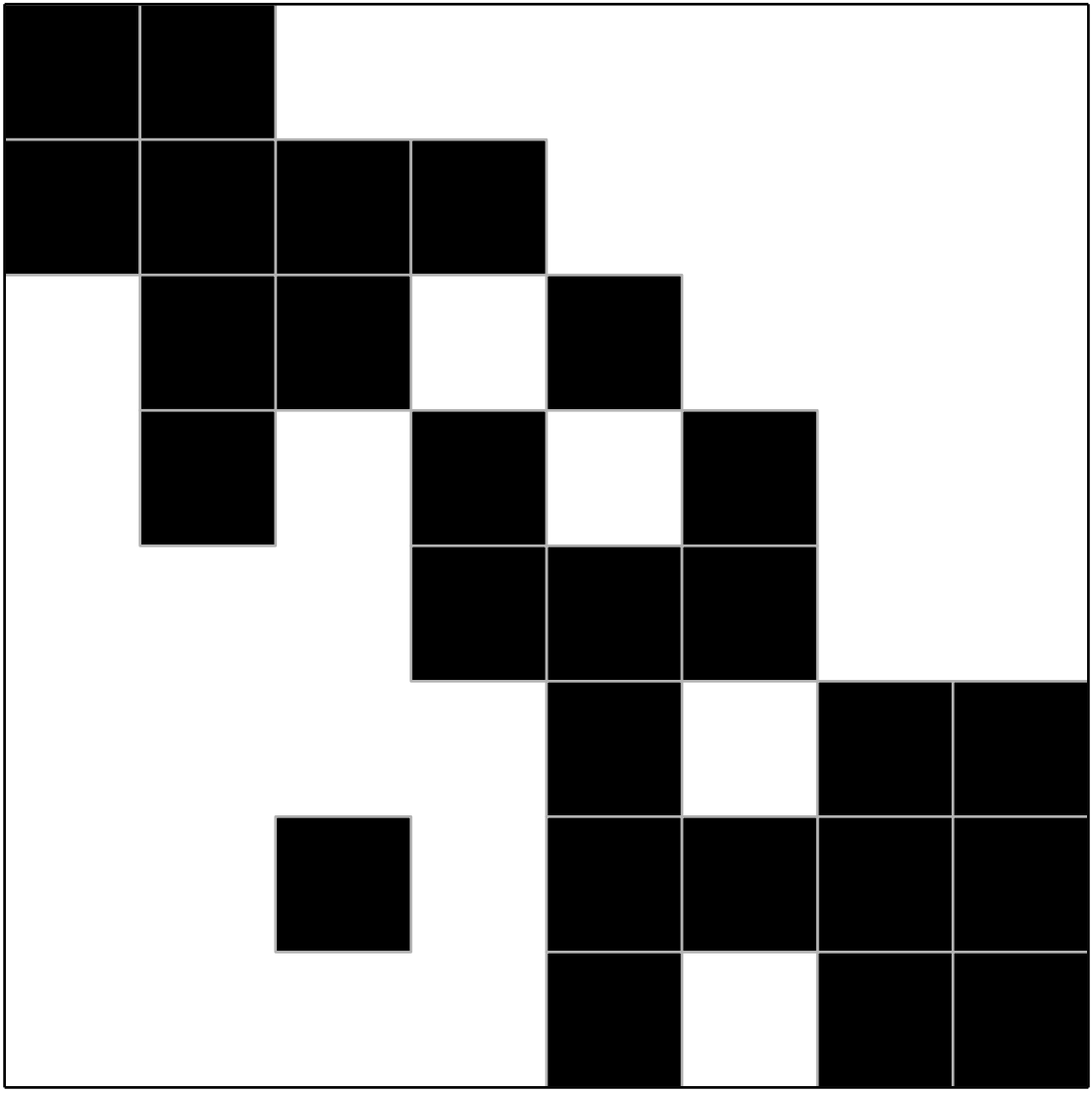
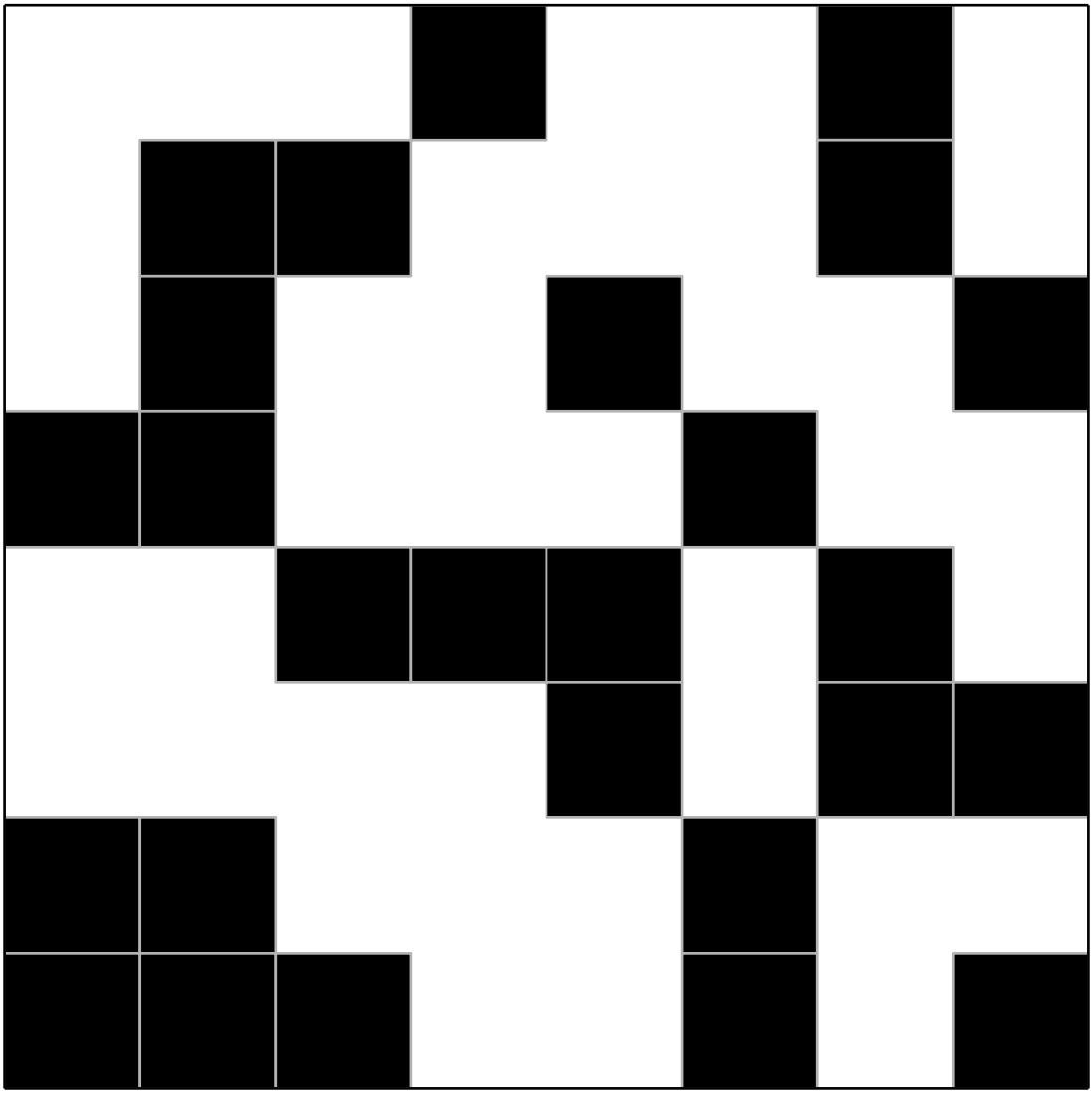


lib2_hs051-04 8x8 (26) con: 3, var: 5



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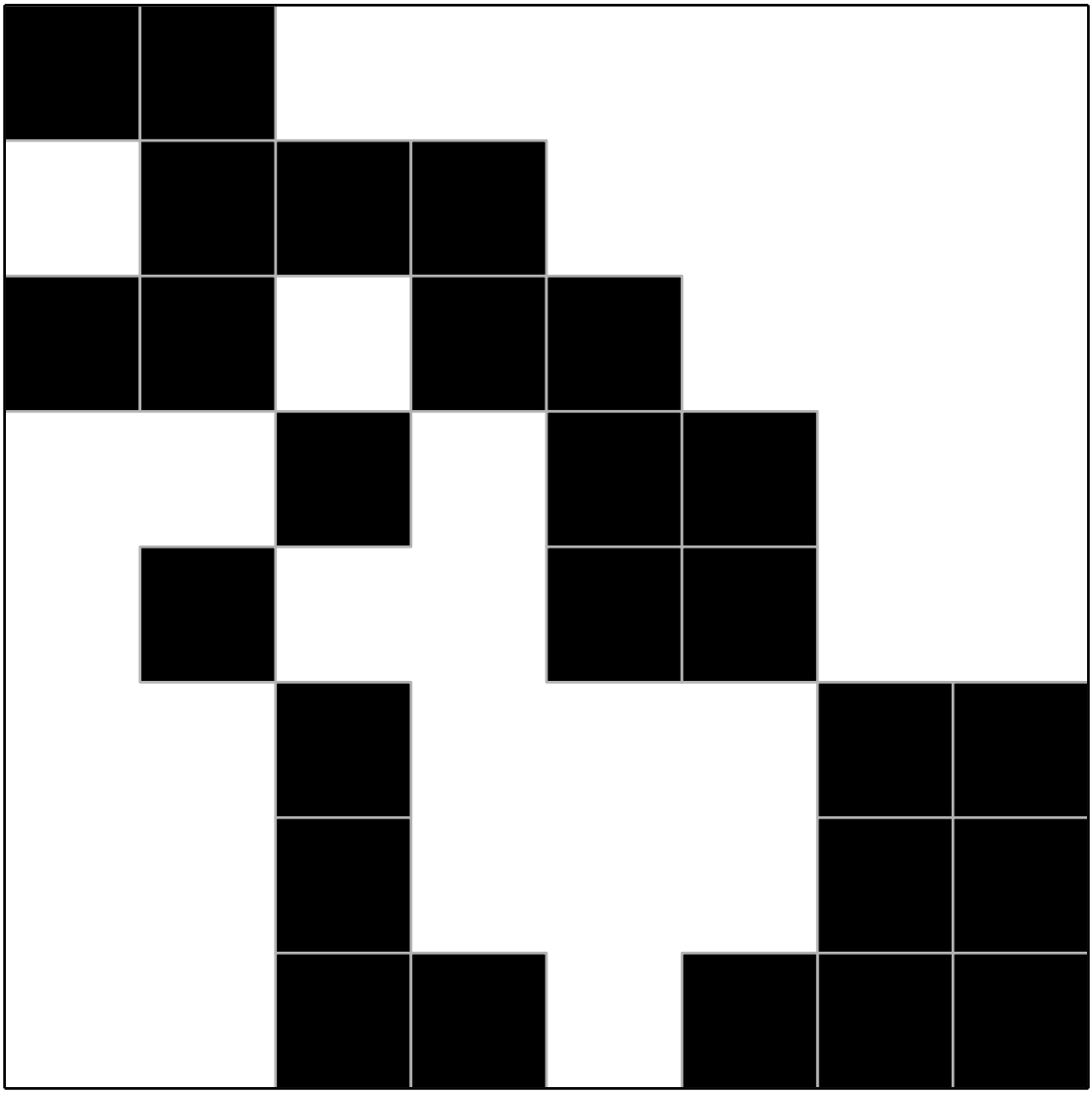

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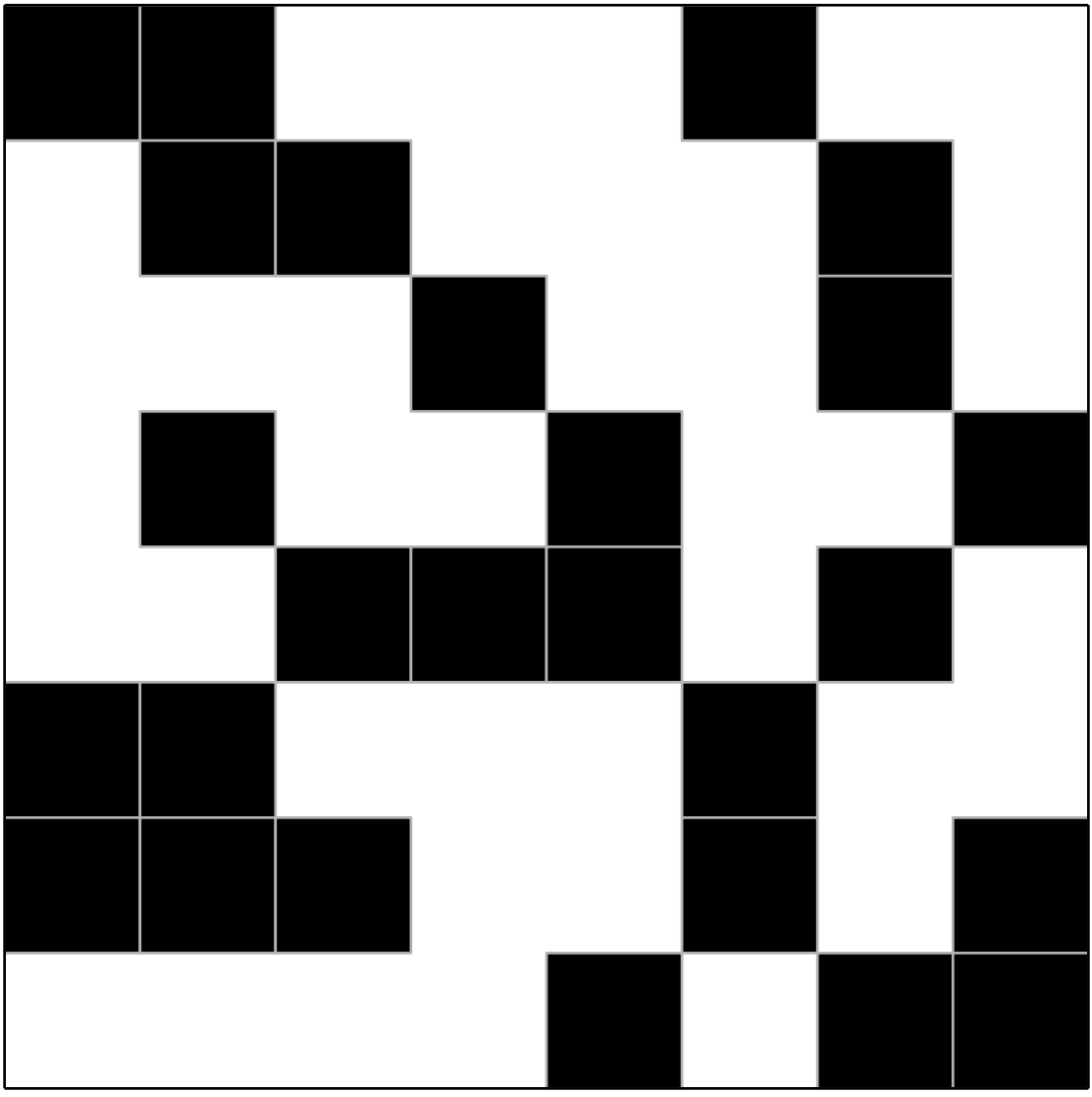

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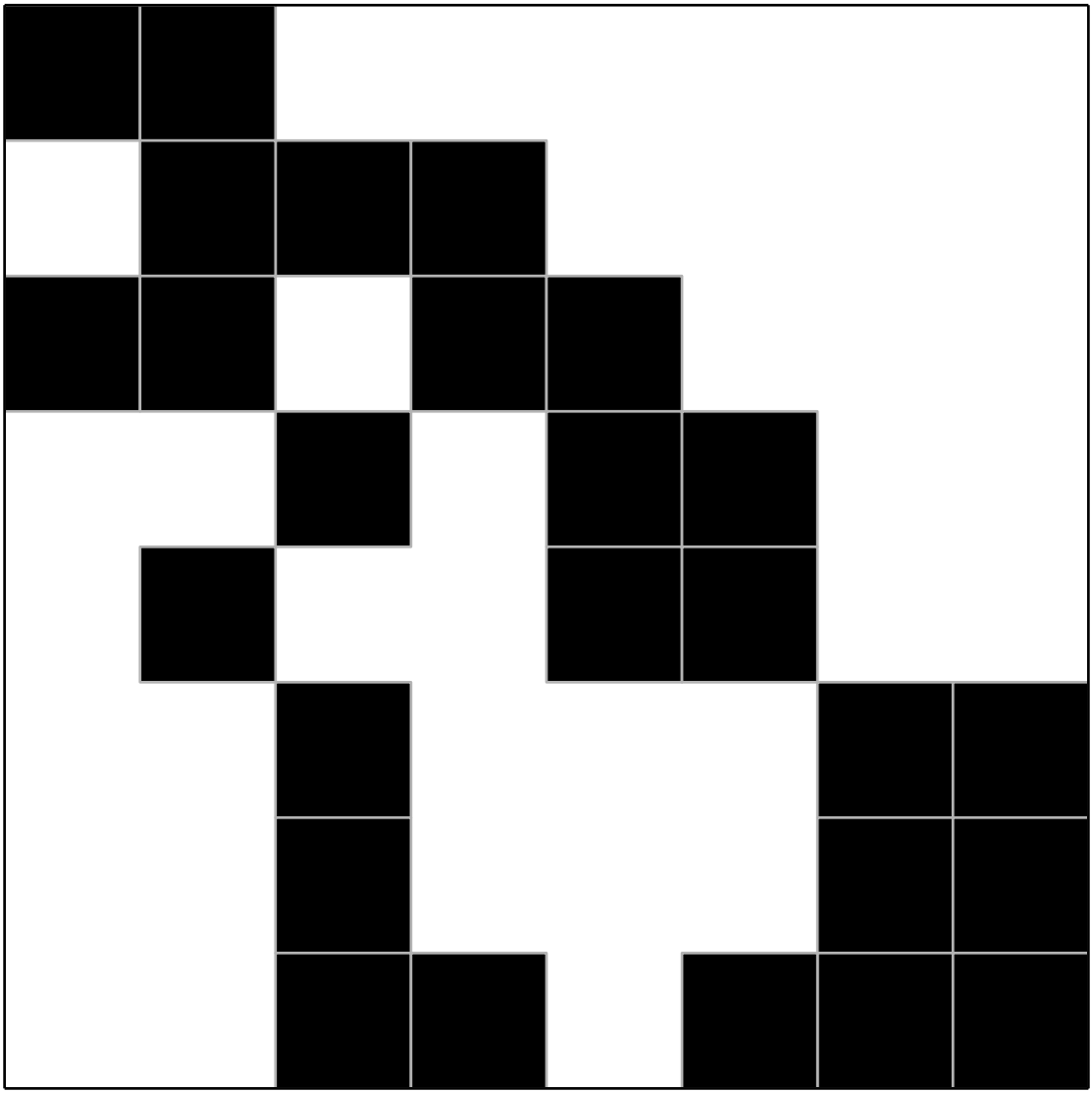

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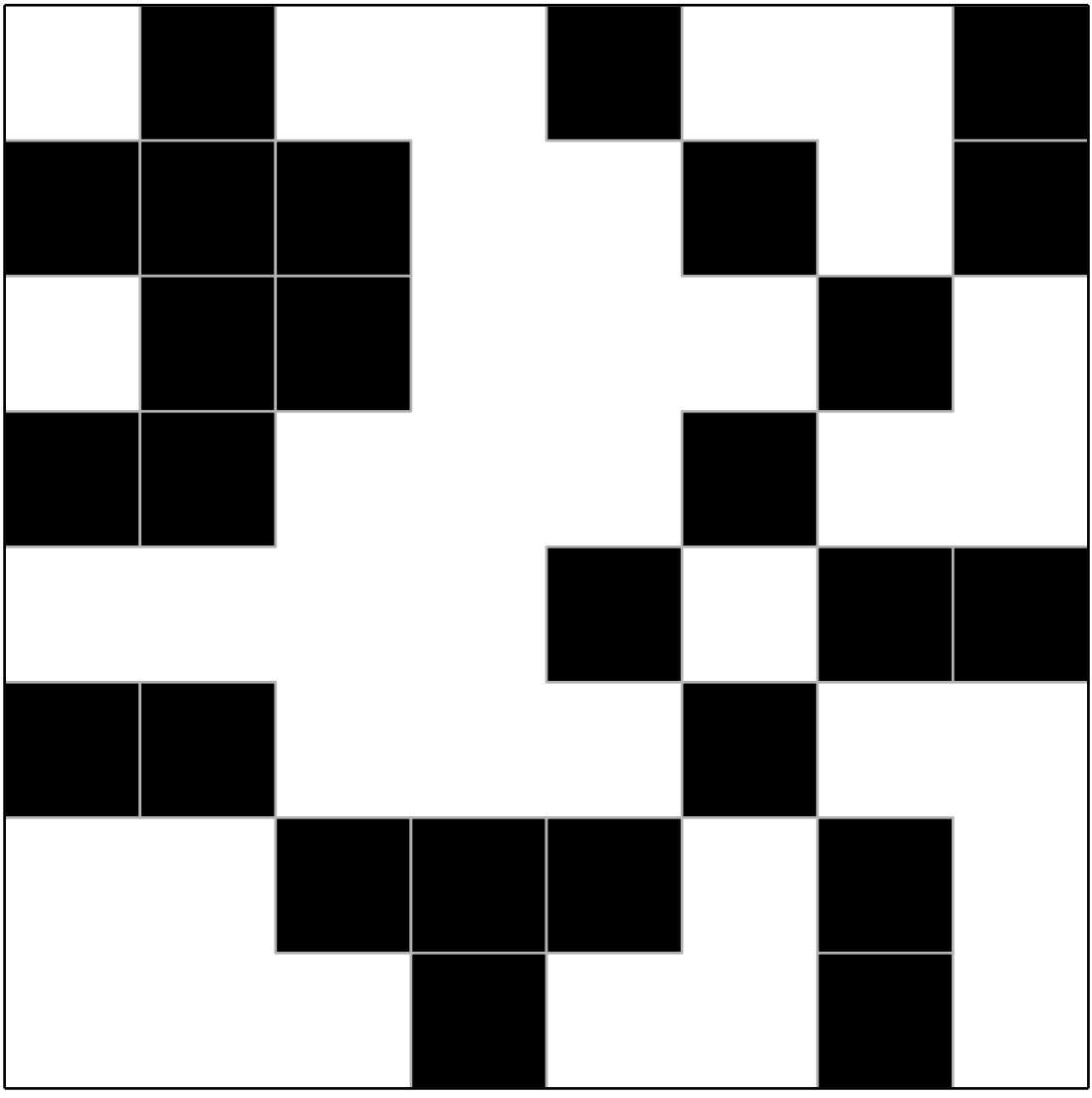

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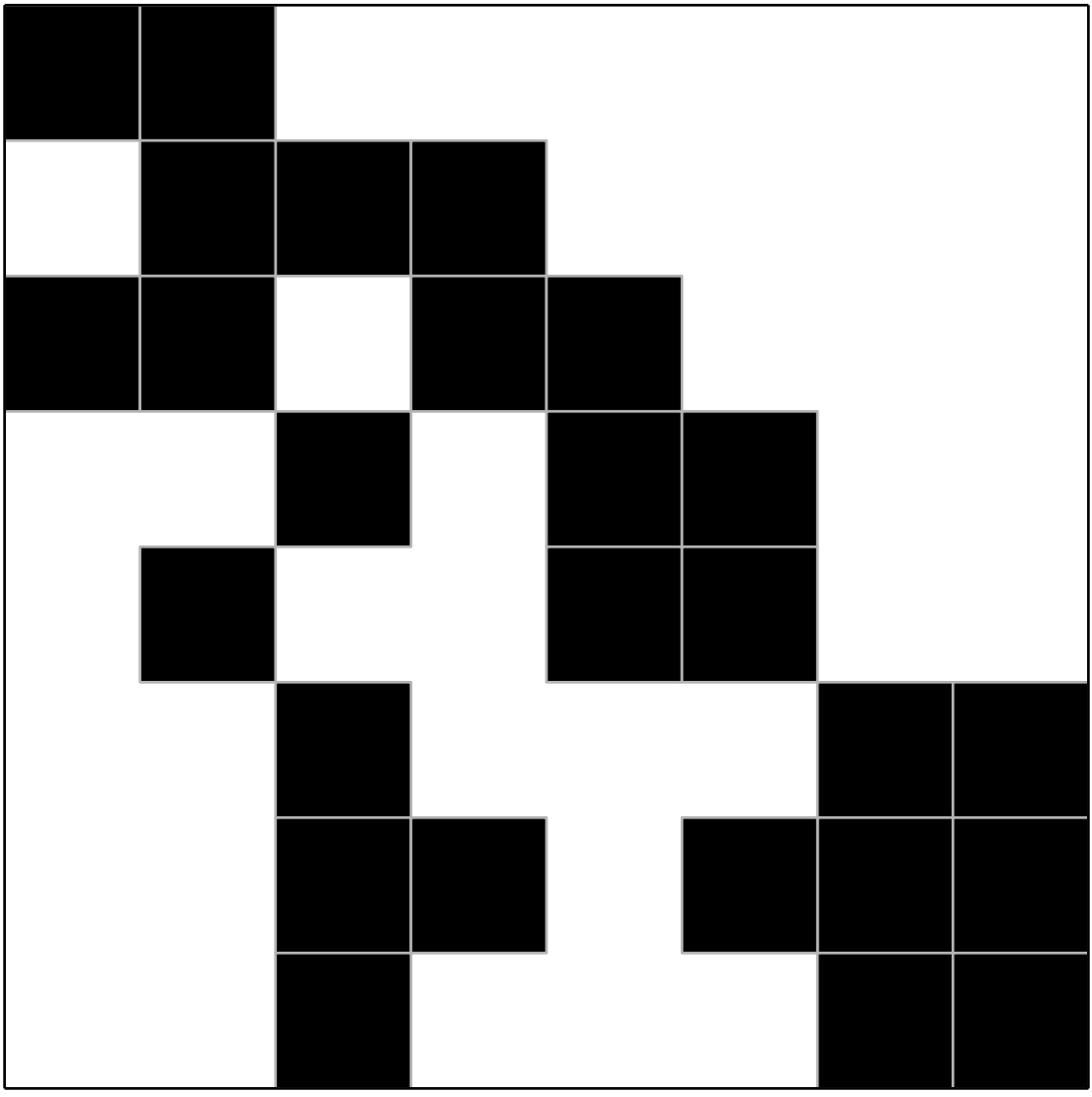
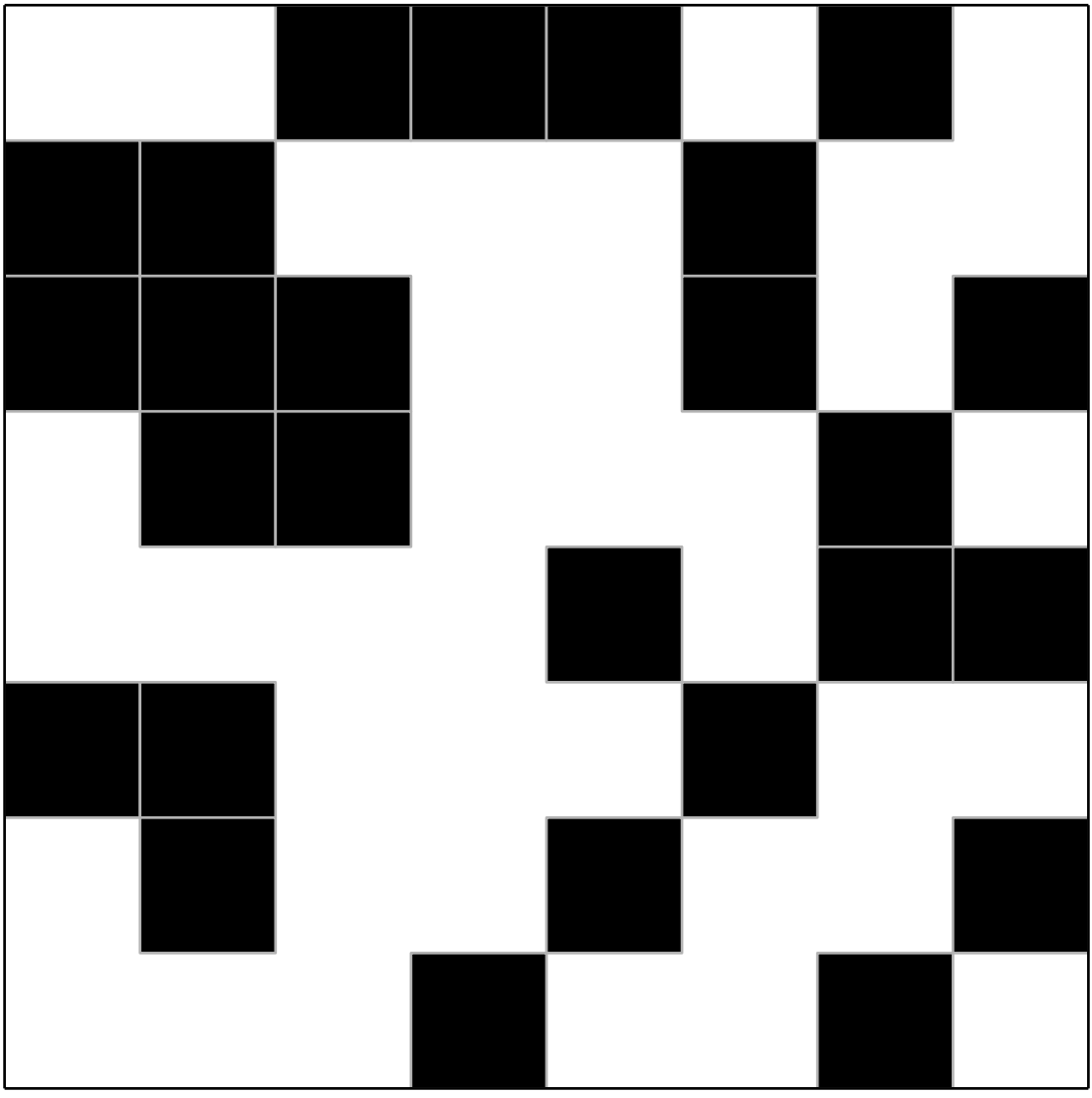


lib2_hs051-07 8x8 (26) con: 3, var: 5



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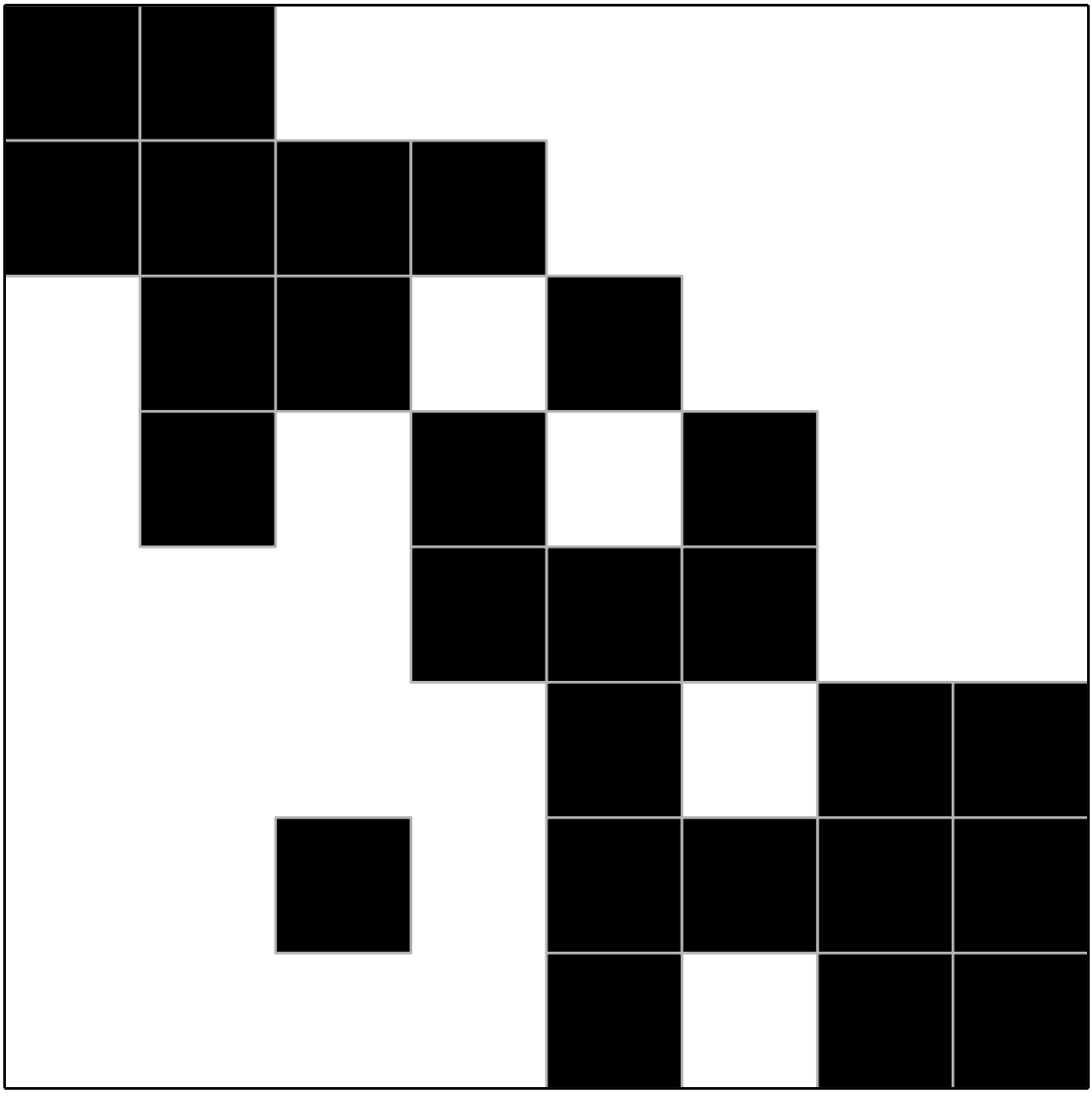
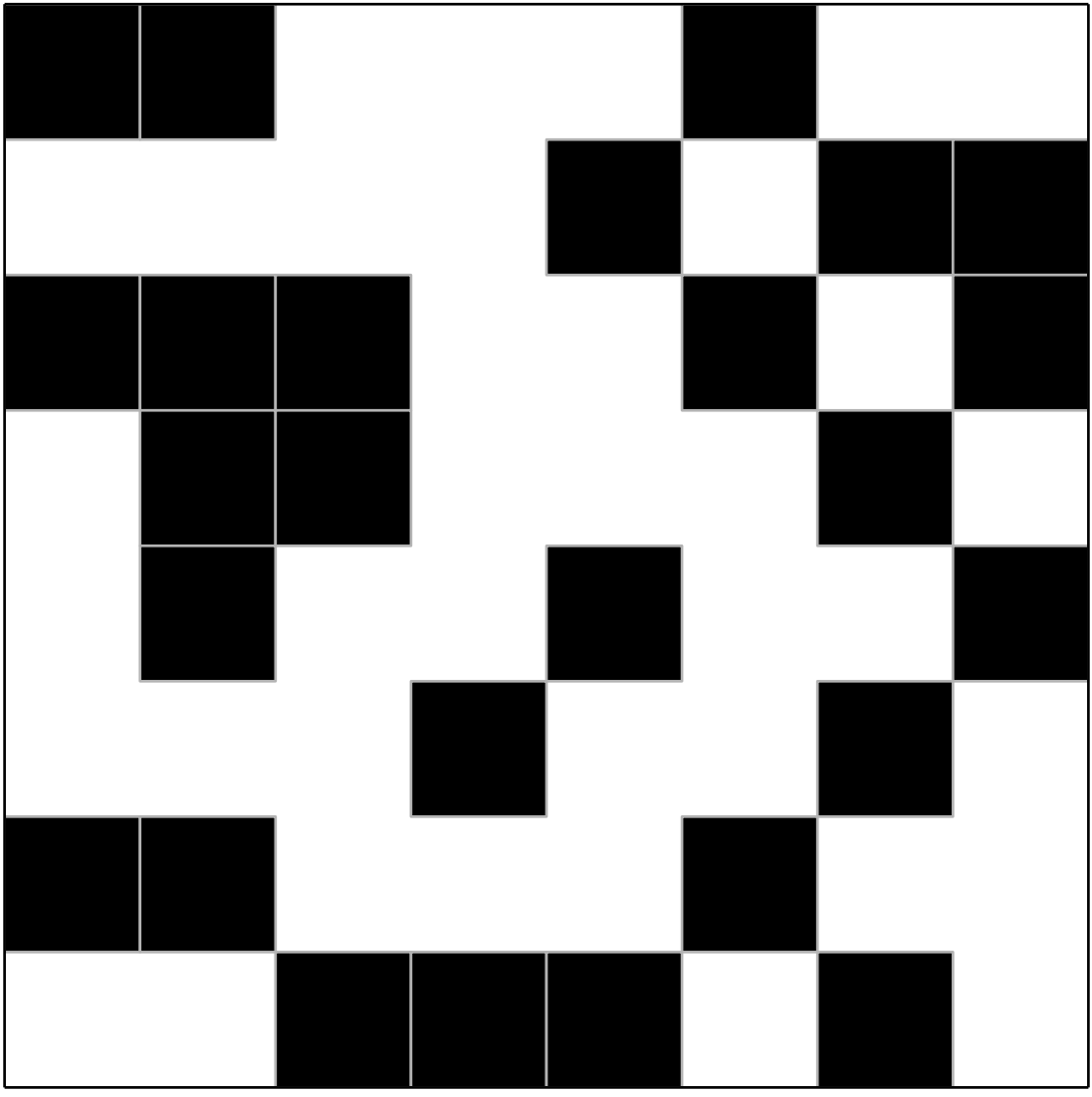
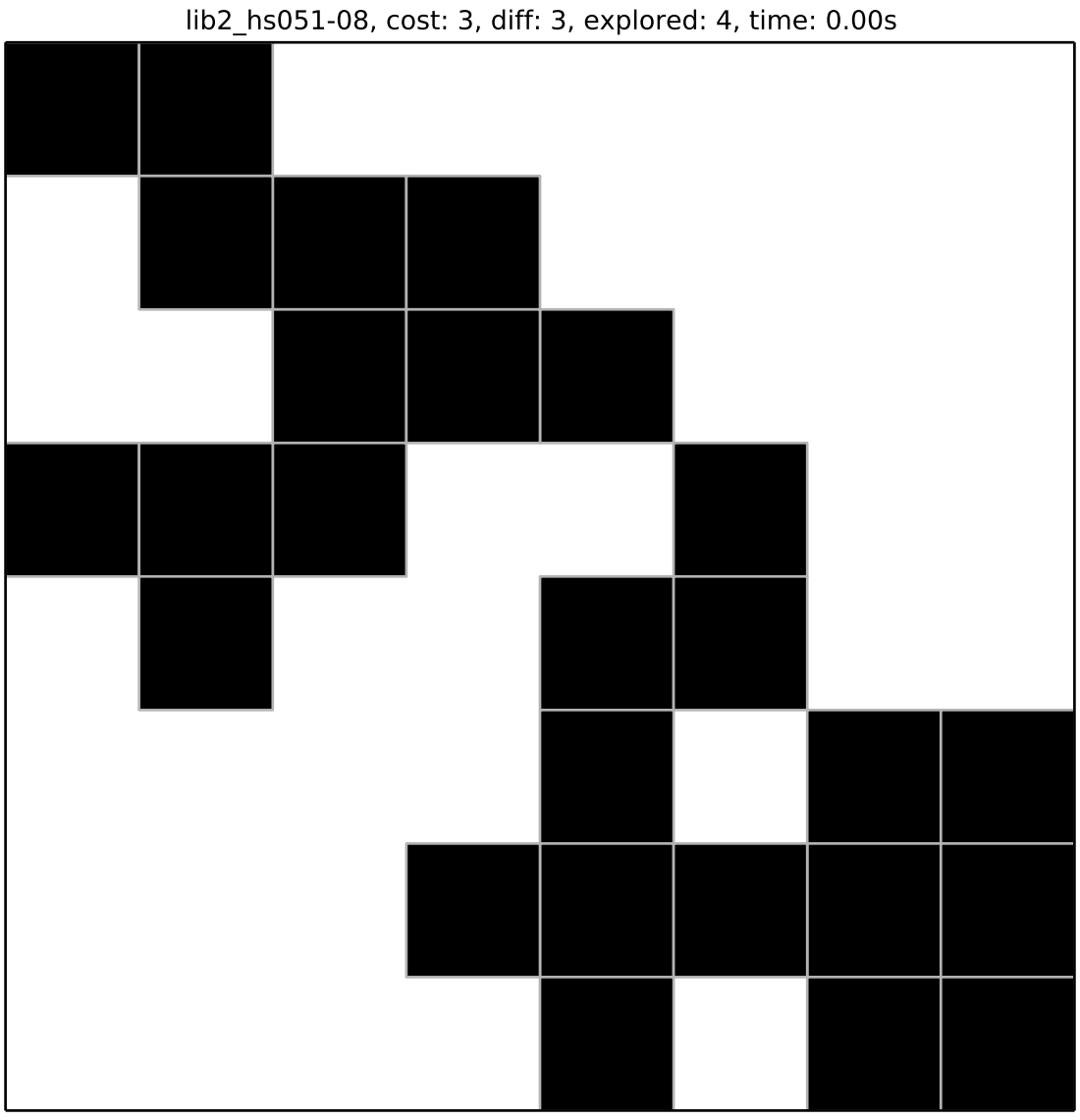


lib2_hs051-08 8x8 (26) con: 3, var: 5

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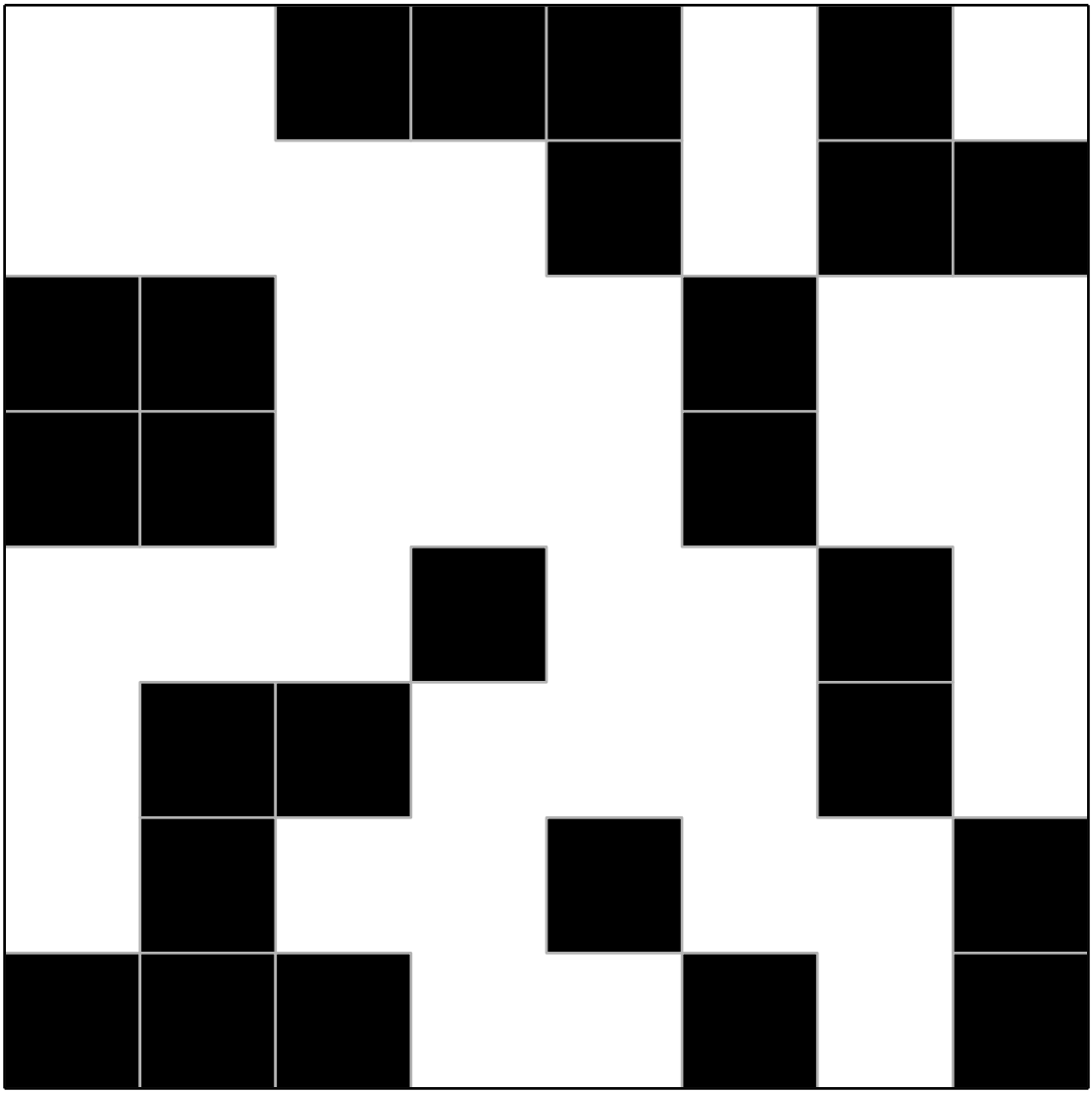

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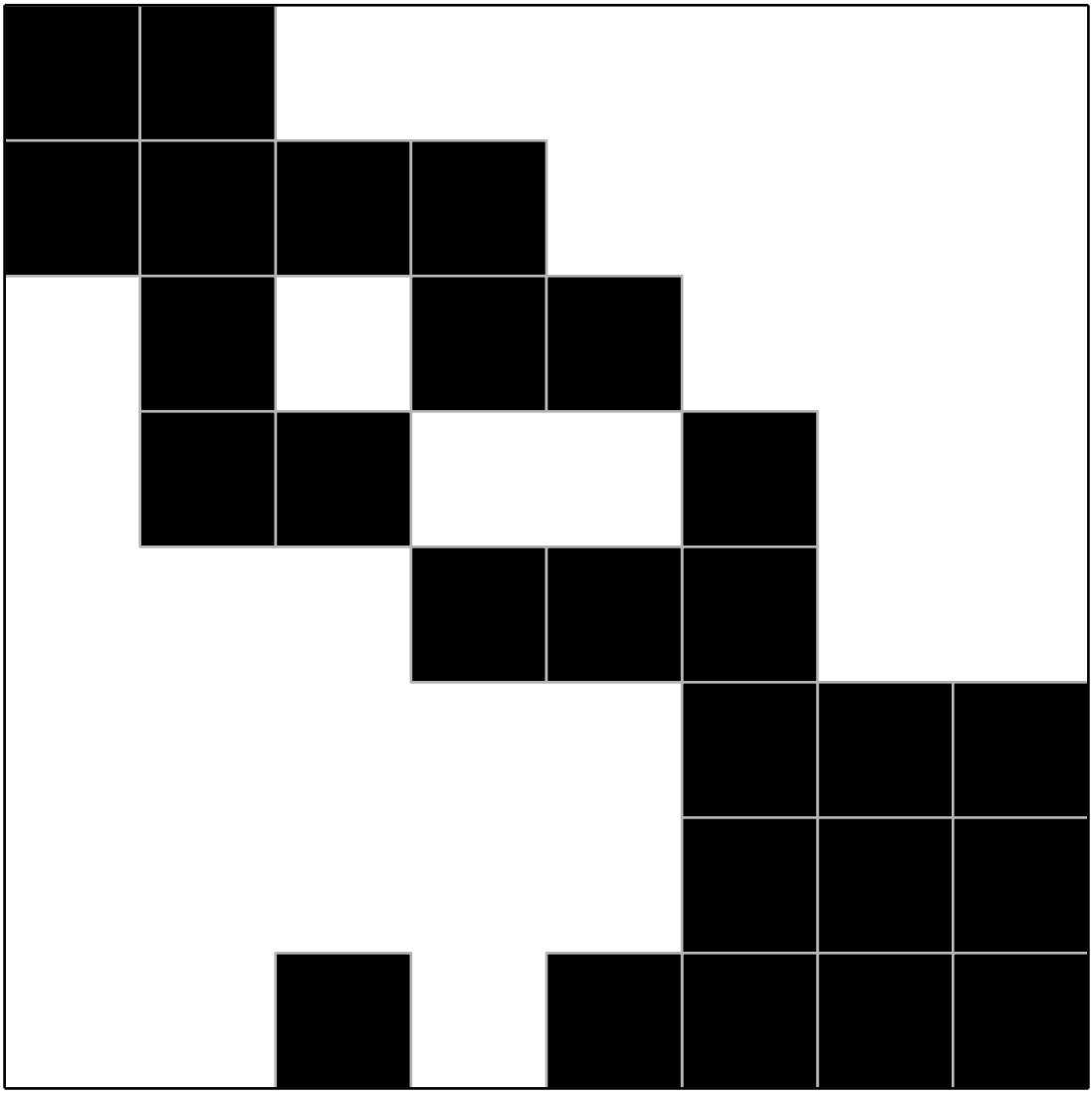
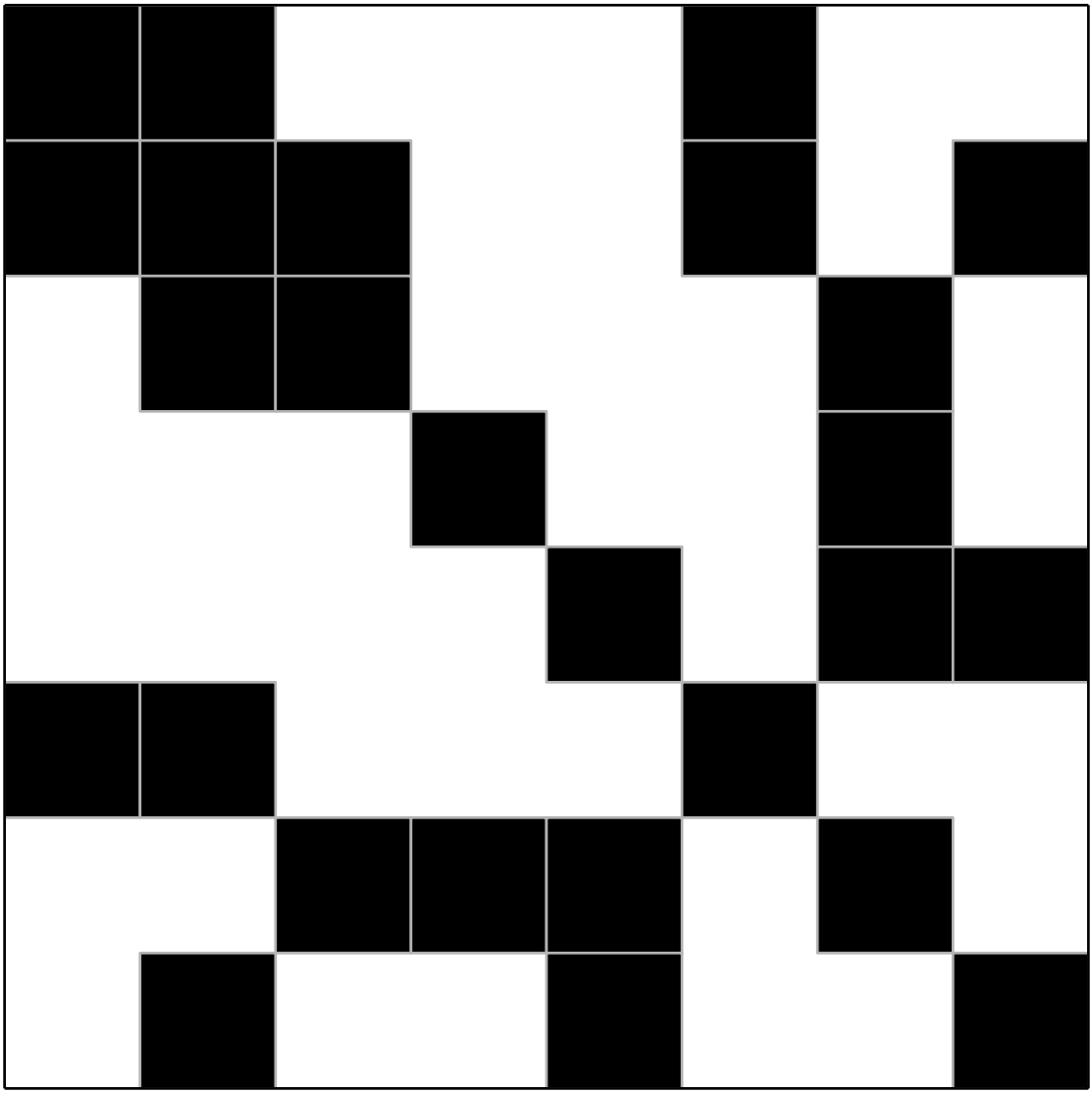
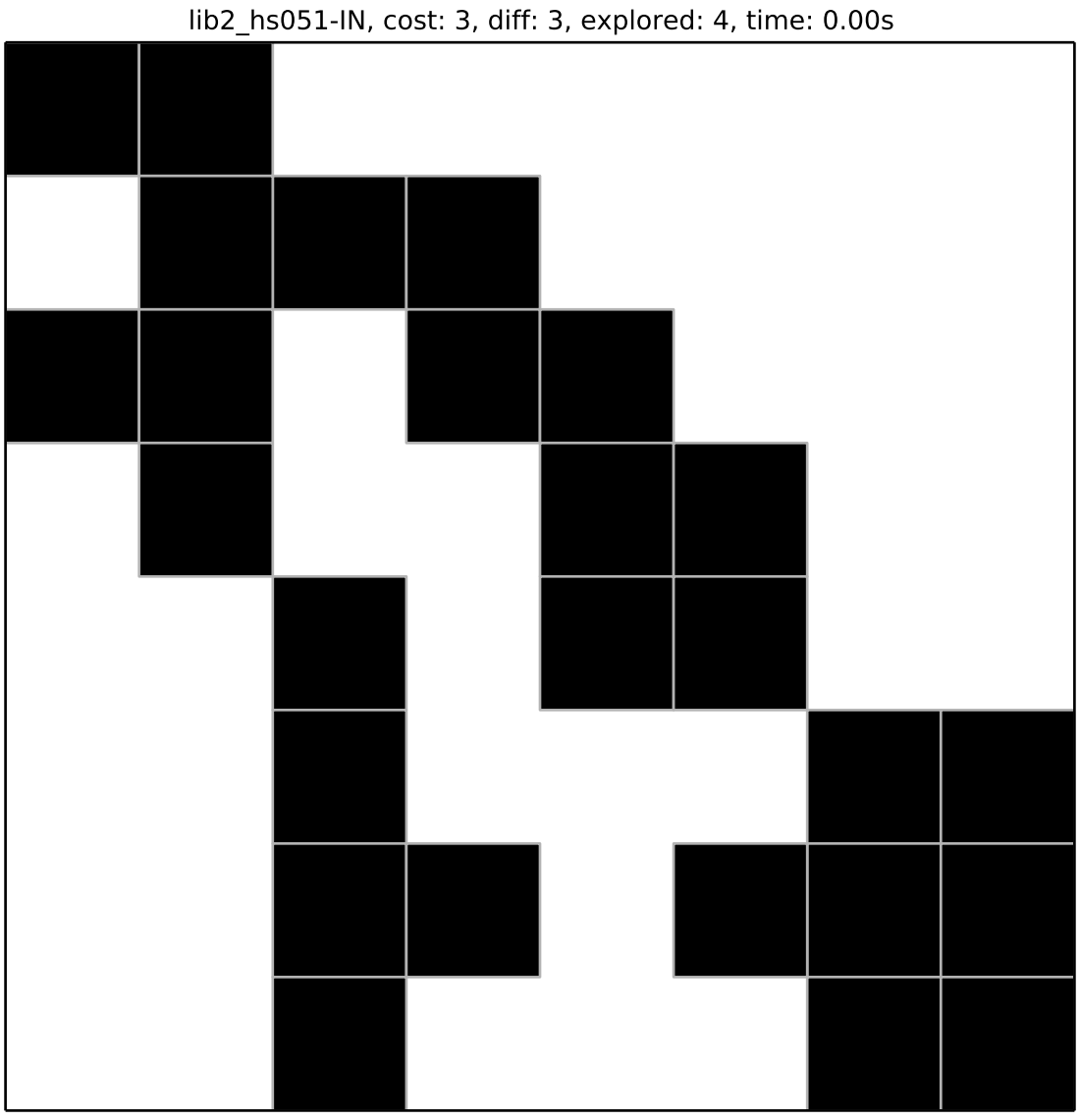


lib2_hs051-IN 8x8 (26) con: 3, var: 5

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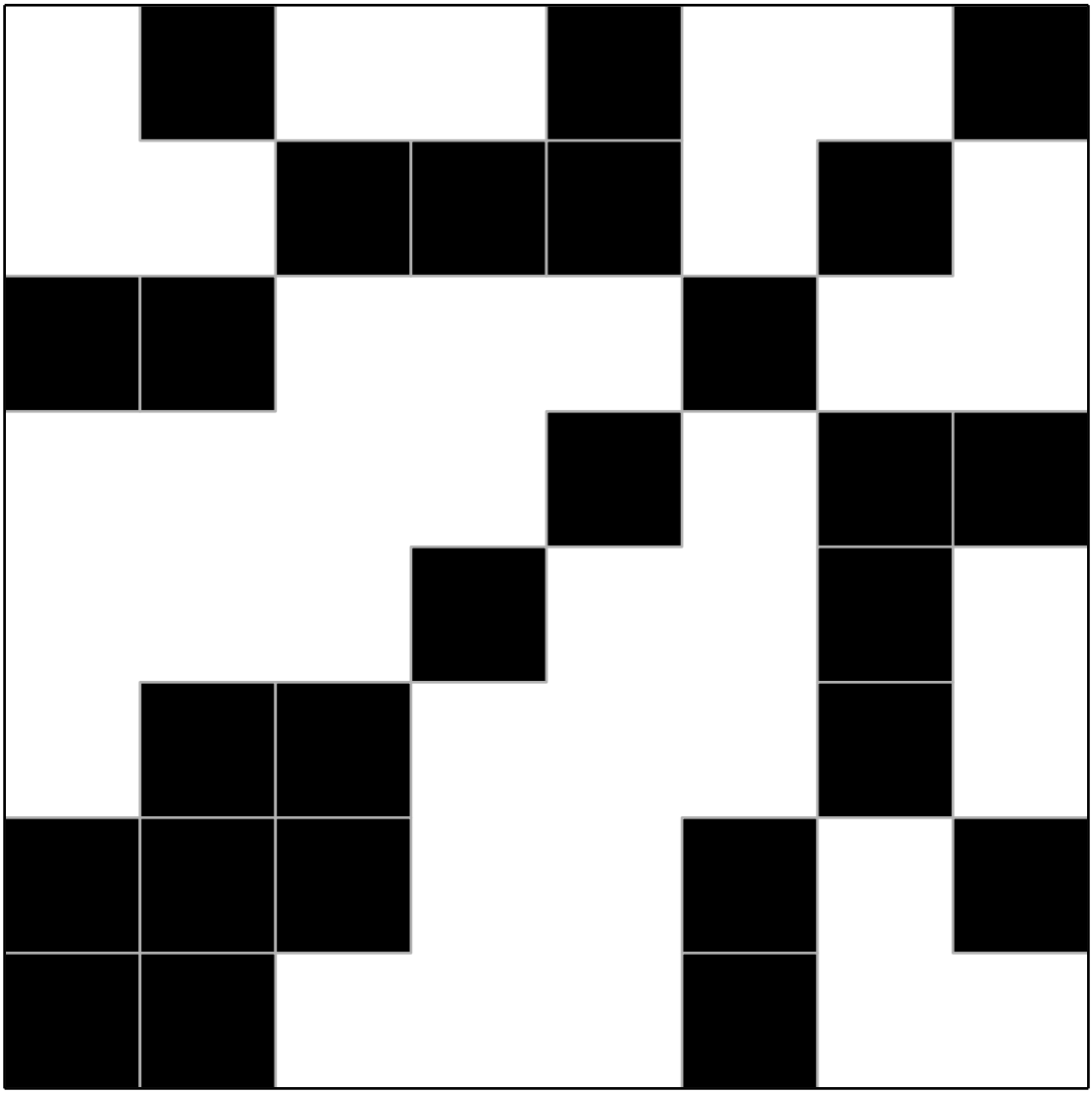
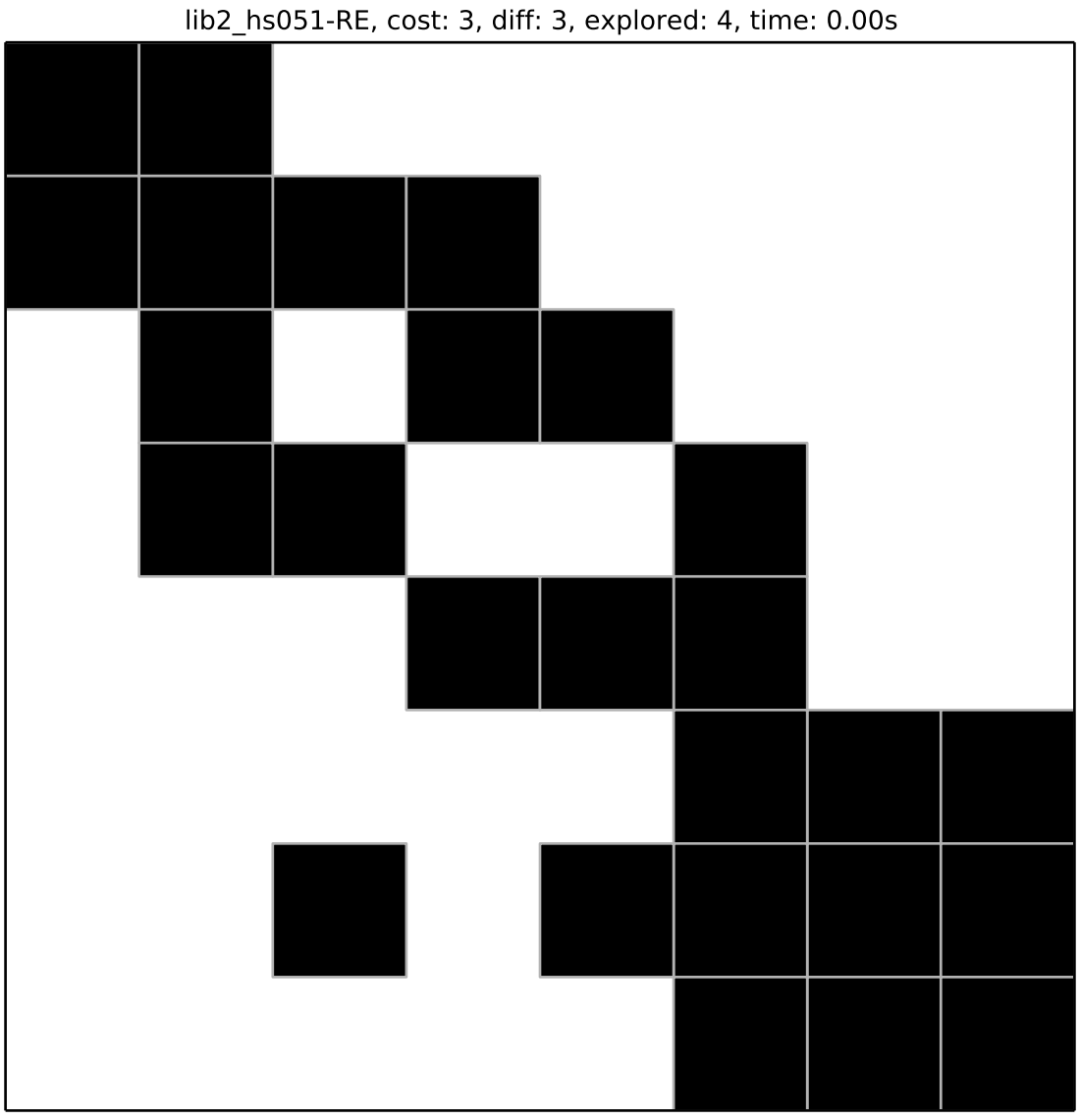
lib2_hs051-RE 8x8 (26) con: 3, var: 5

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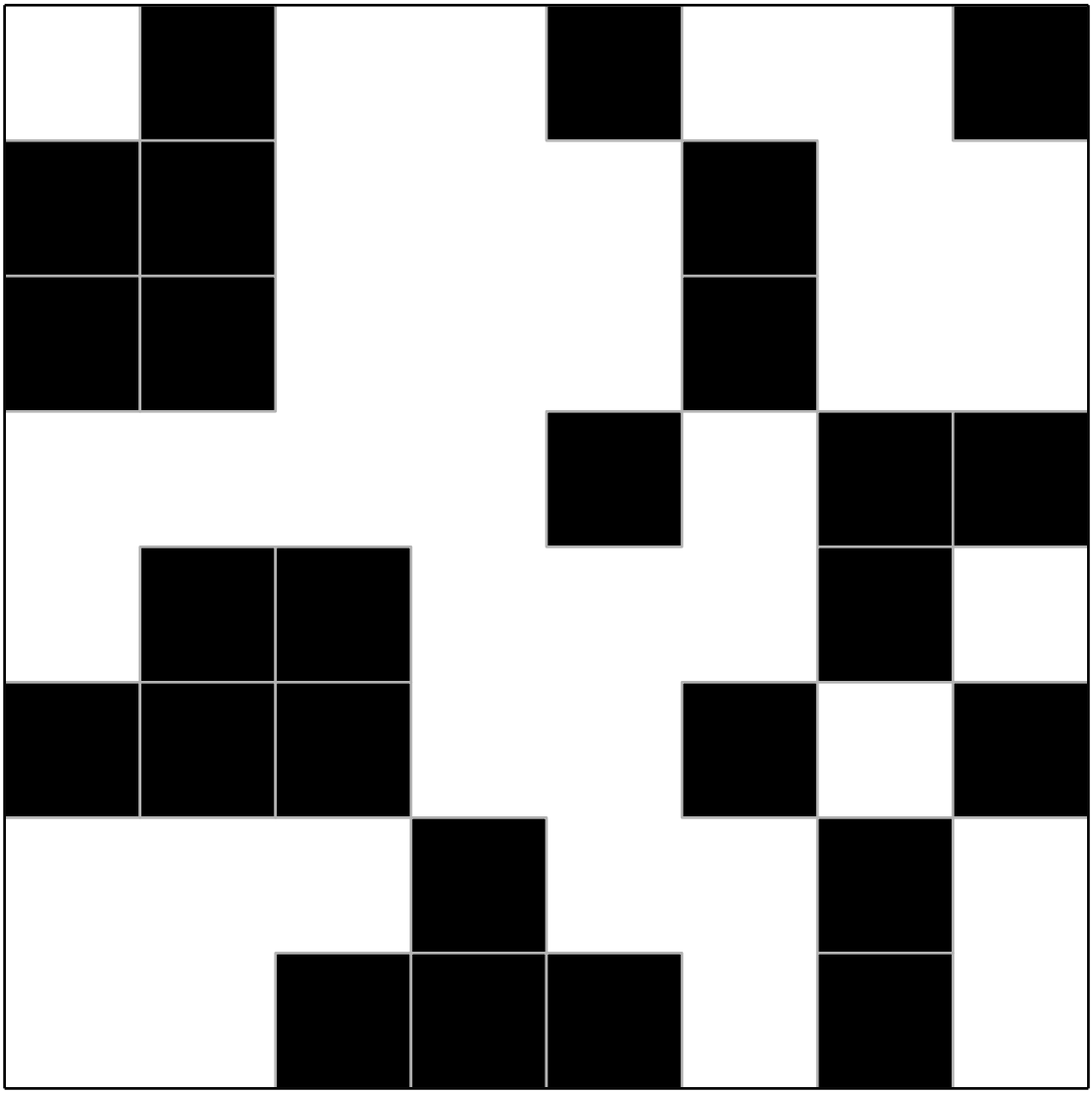
lib2_hs052-00 8x8 (26) con: 3, var: 5



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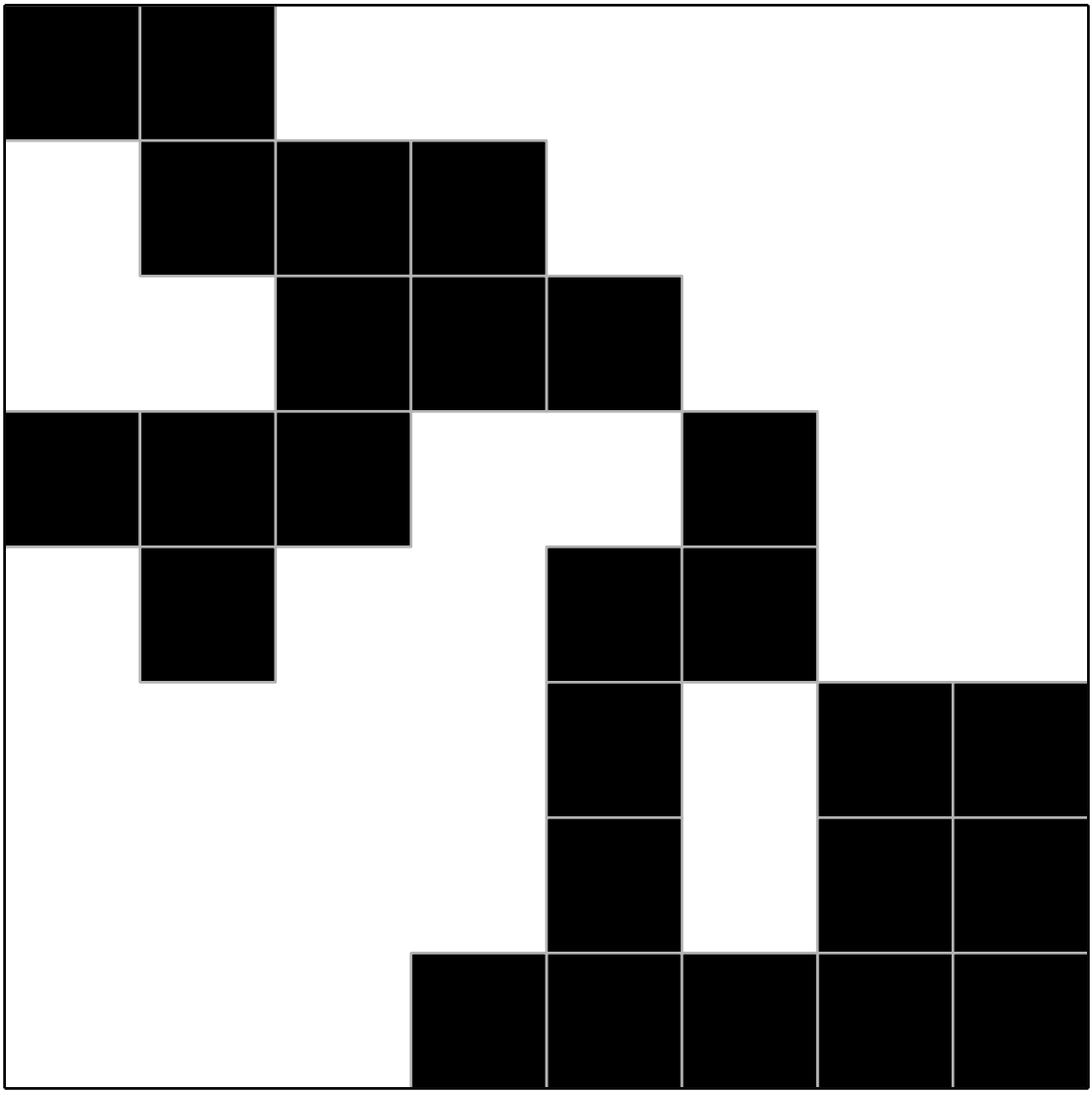
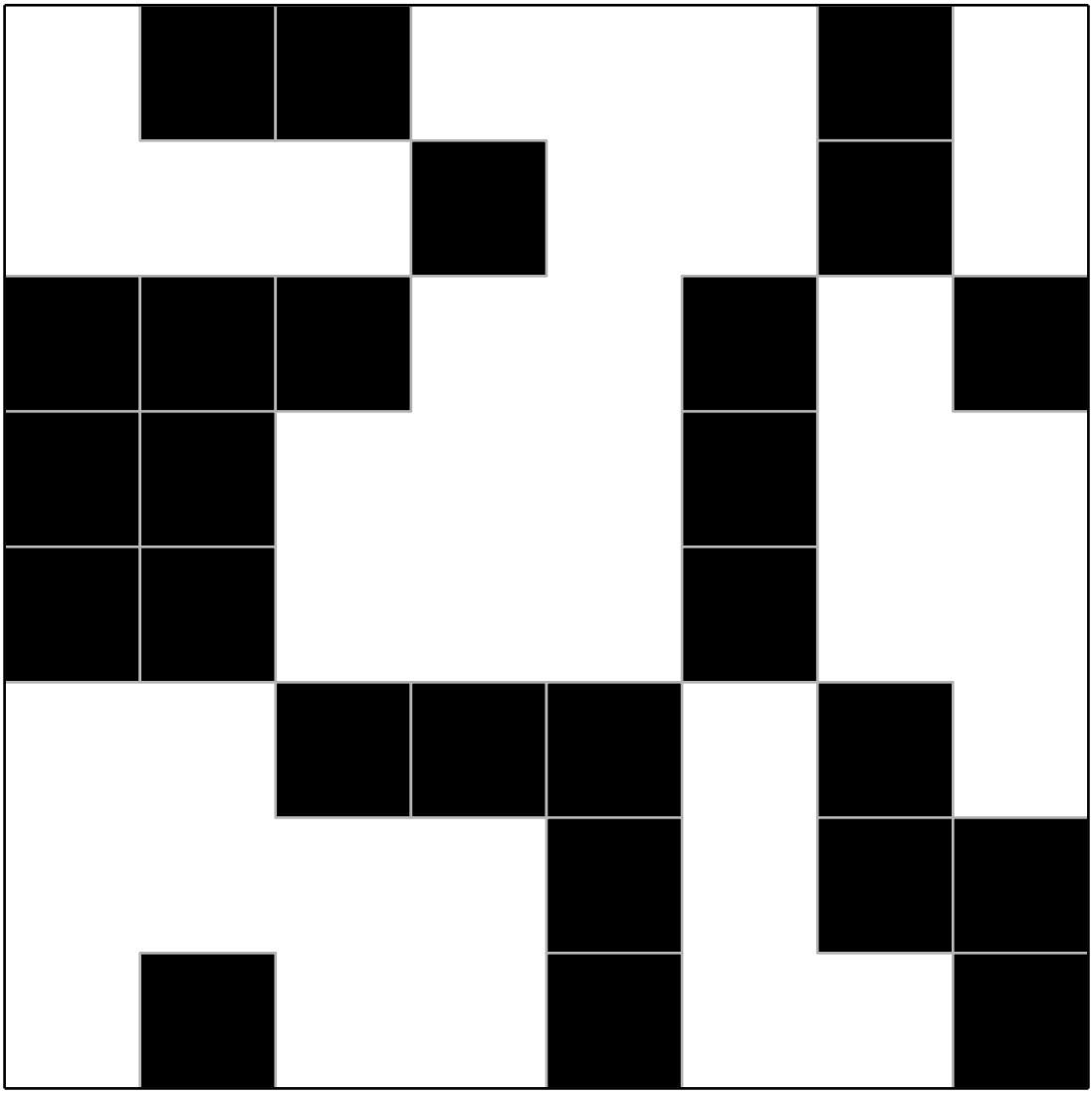


lib2_hs052-01 8x8 (26) con: 3, var: 5



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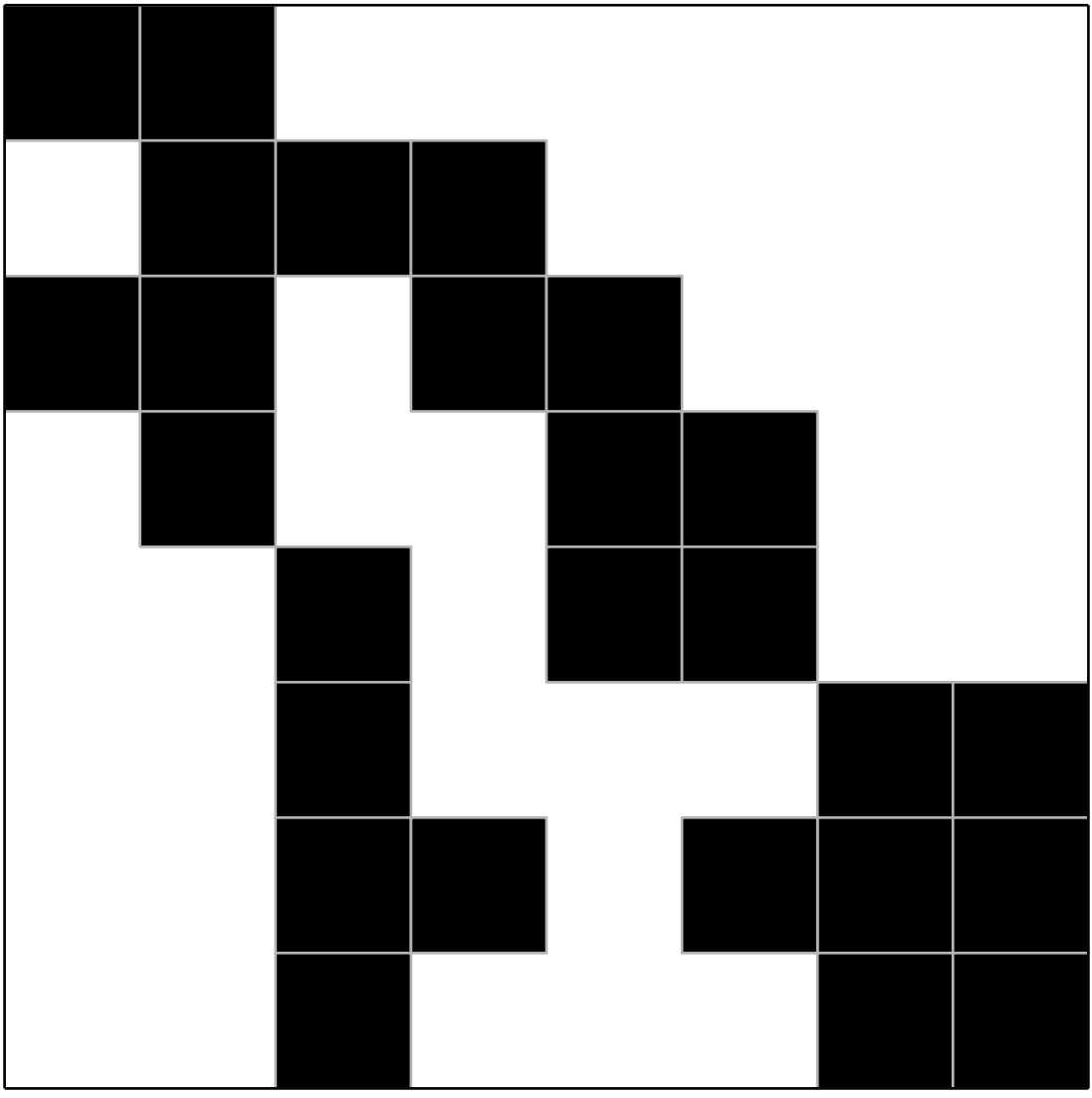
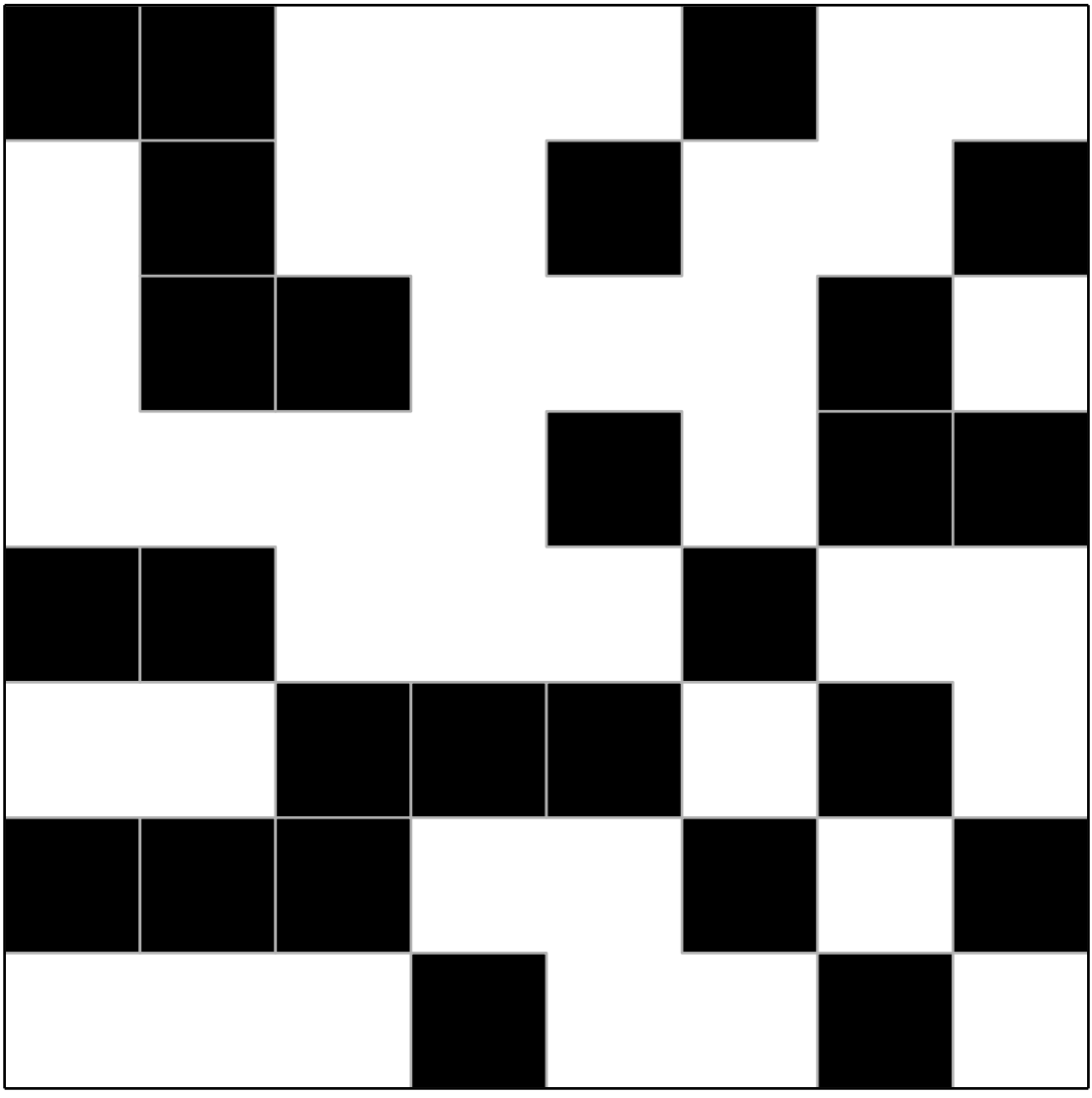


lib2_hs052-02 8x8 (26) con: 3, var: 5



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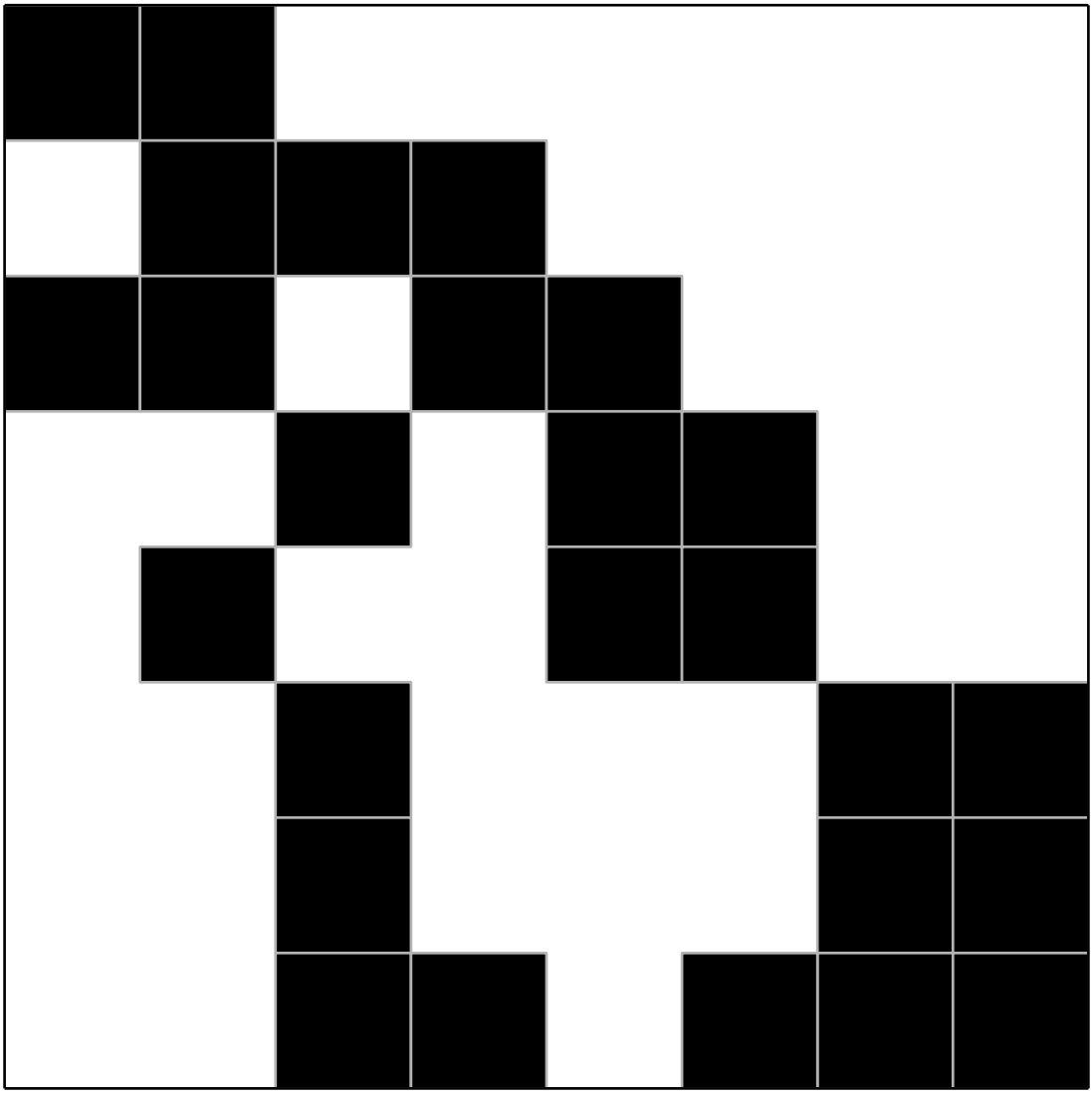
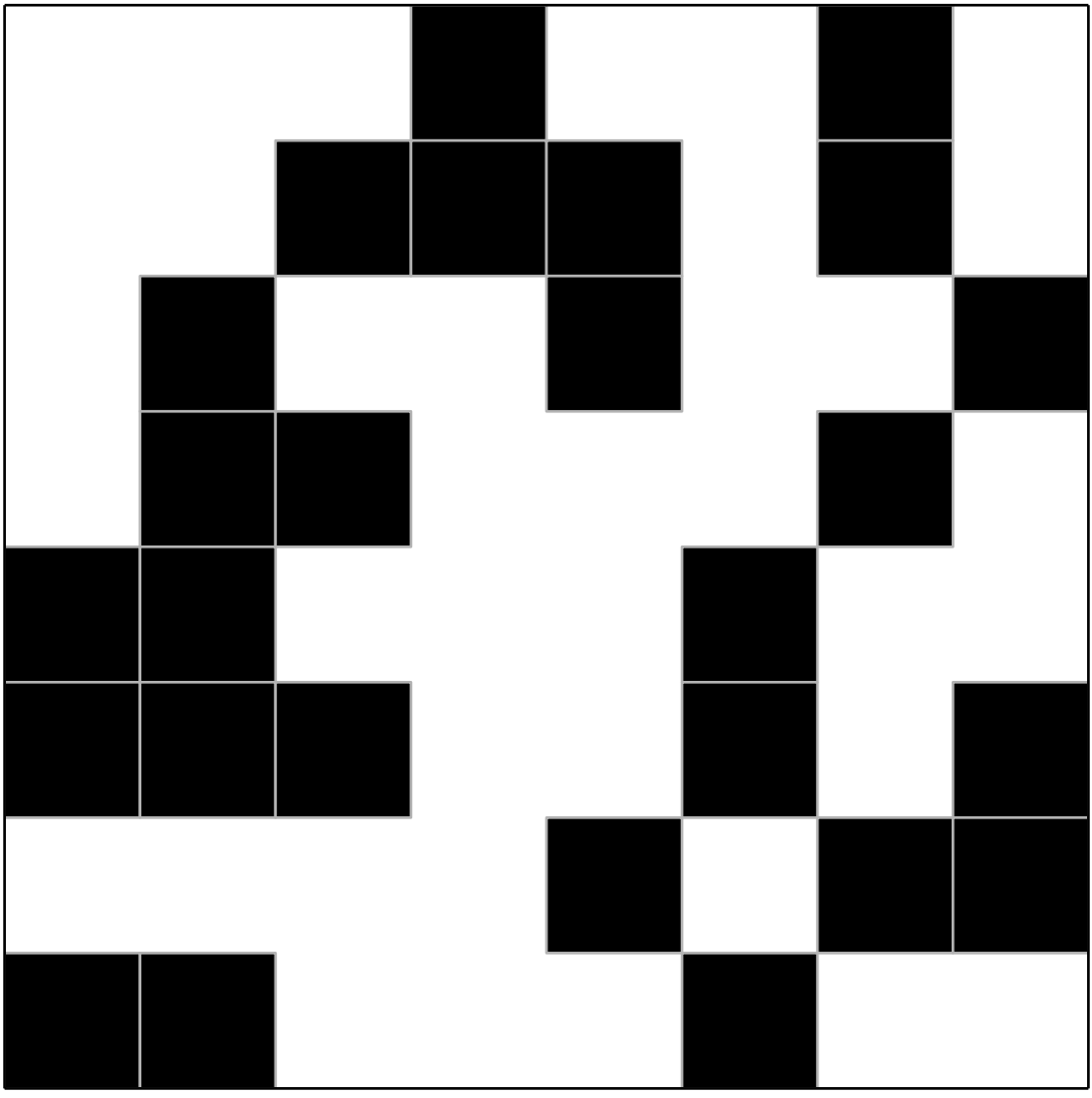


lib2_hs052-03 8x8 (26) con: 3, var: 5



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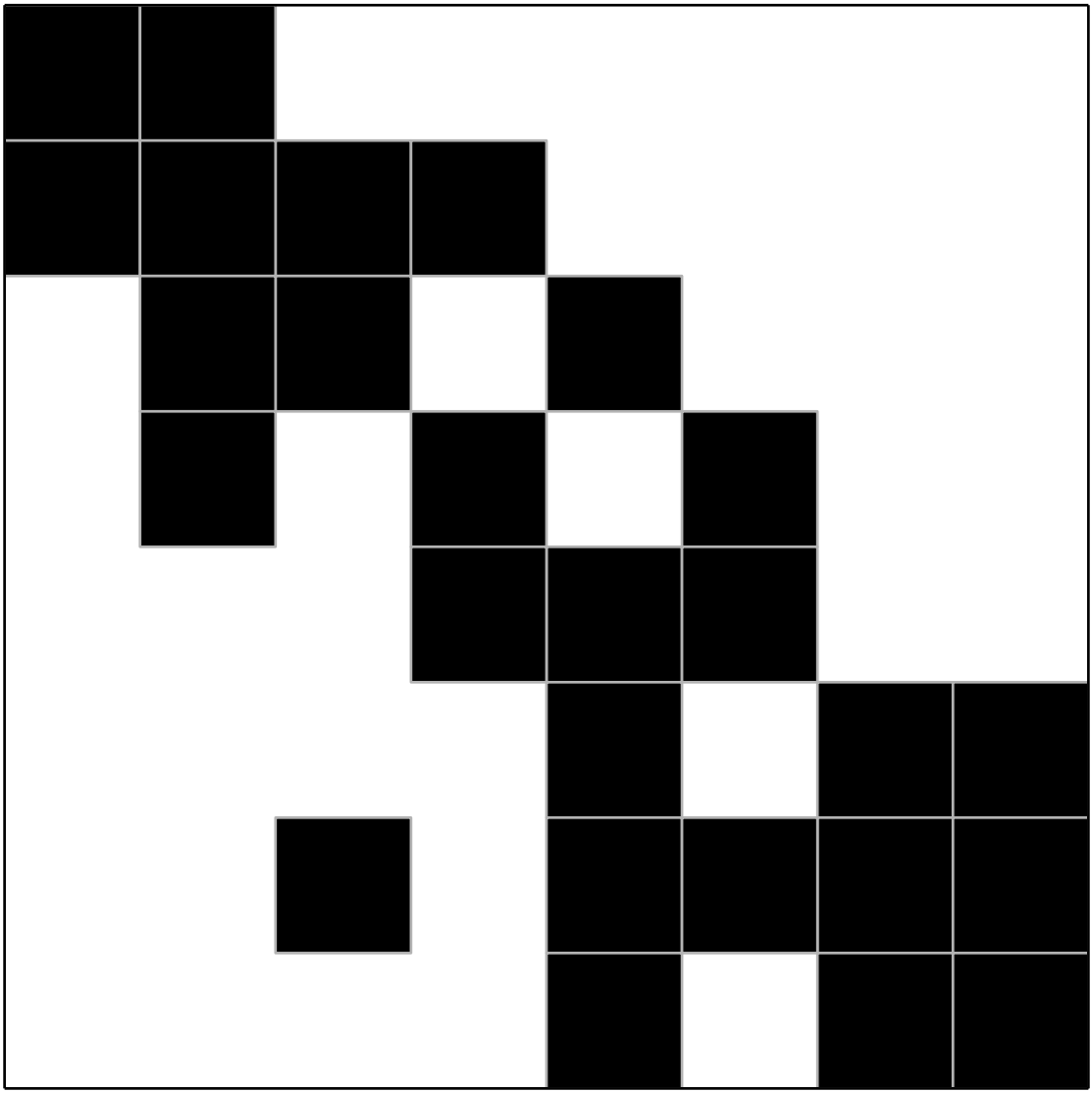
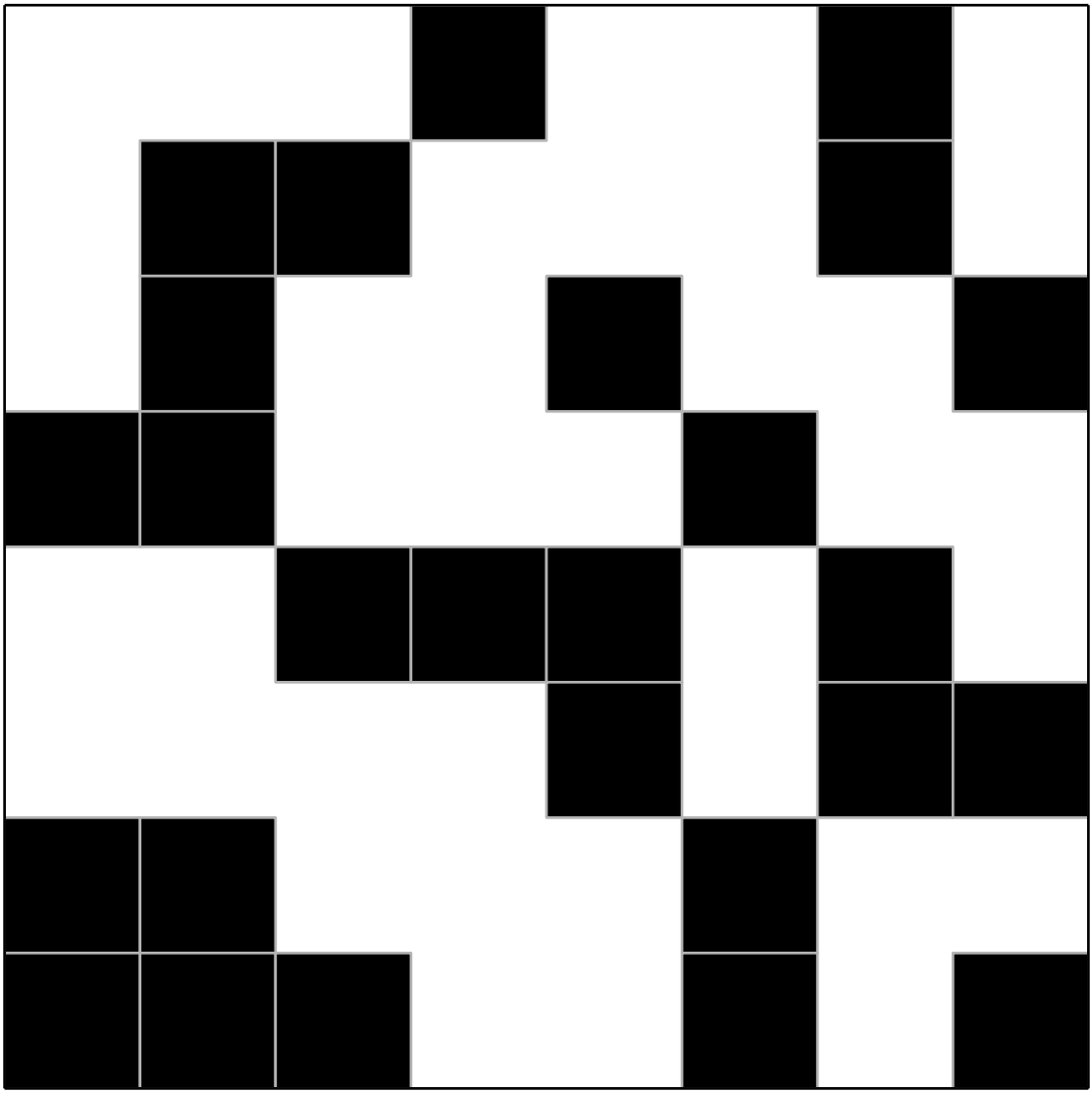


lib2_hs052-04 8x8 (26) con: 3, var: 5



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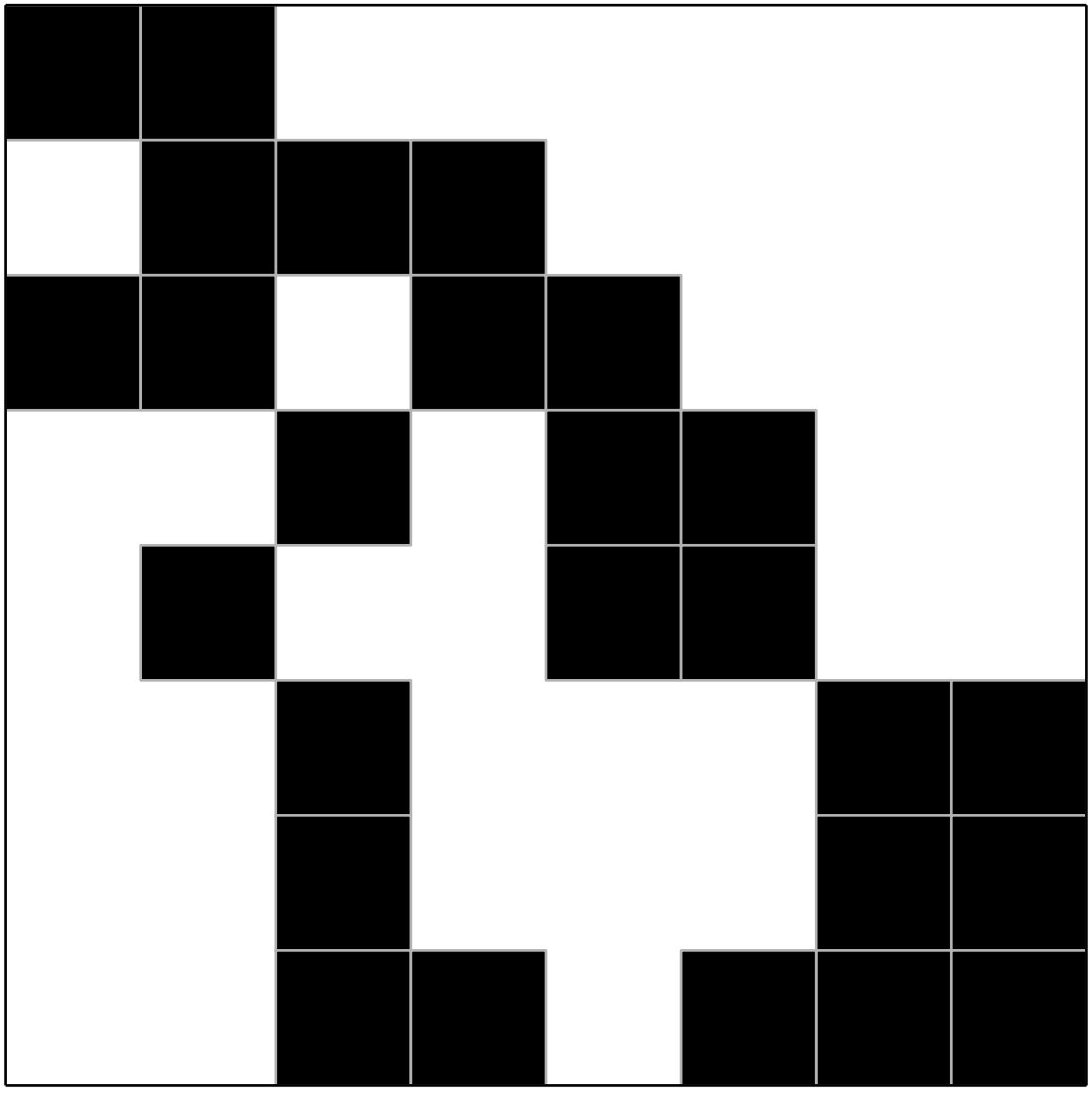
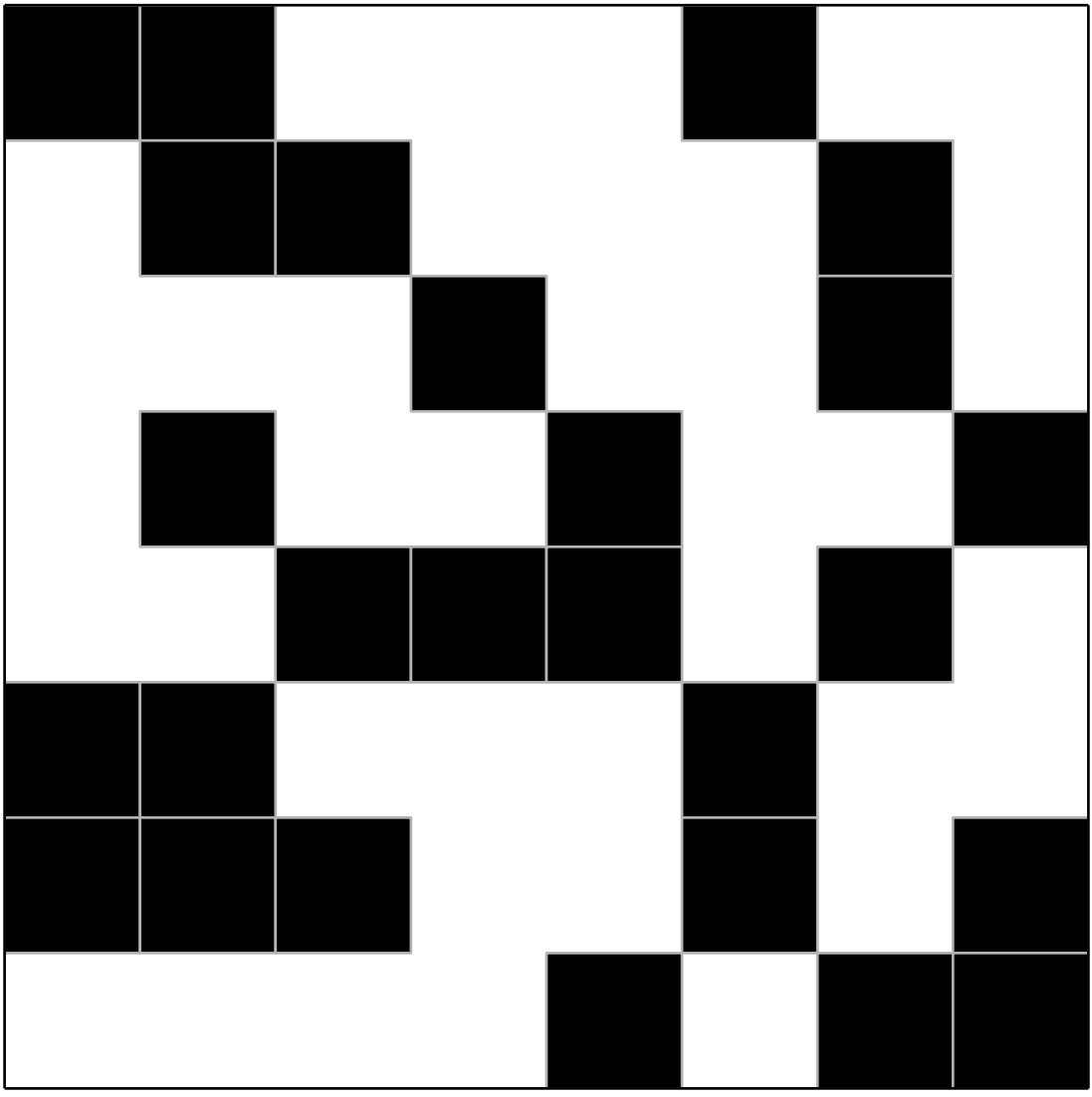


lib2_hs052-05 8x8 (26) con: 3, var: 5



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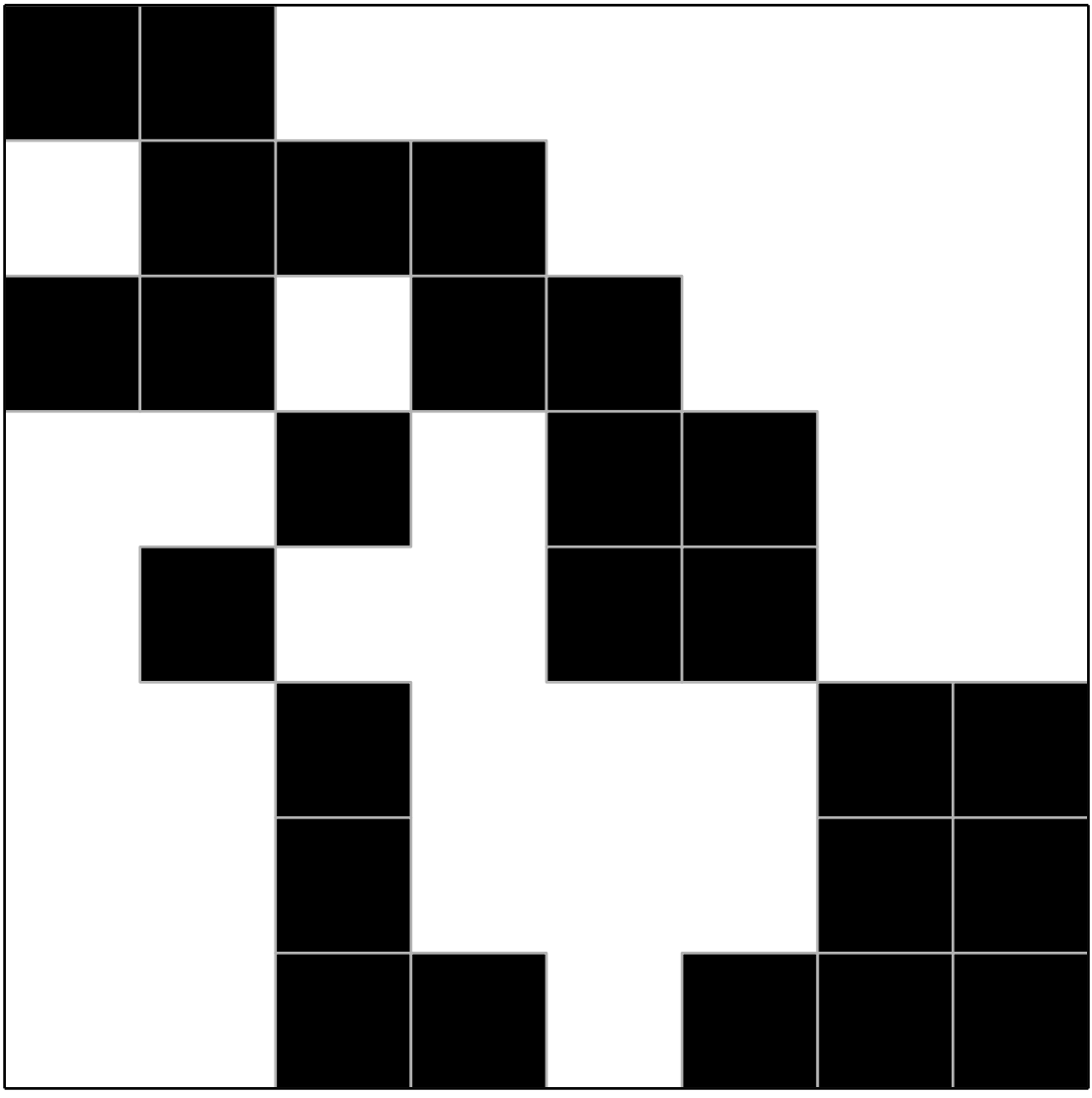
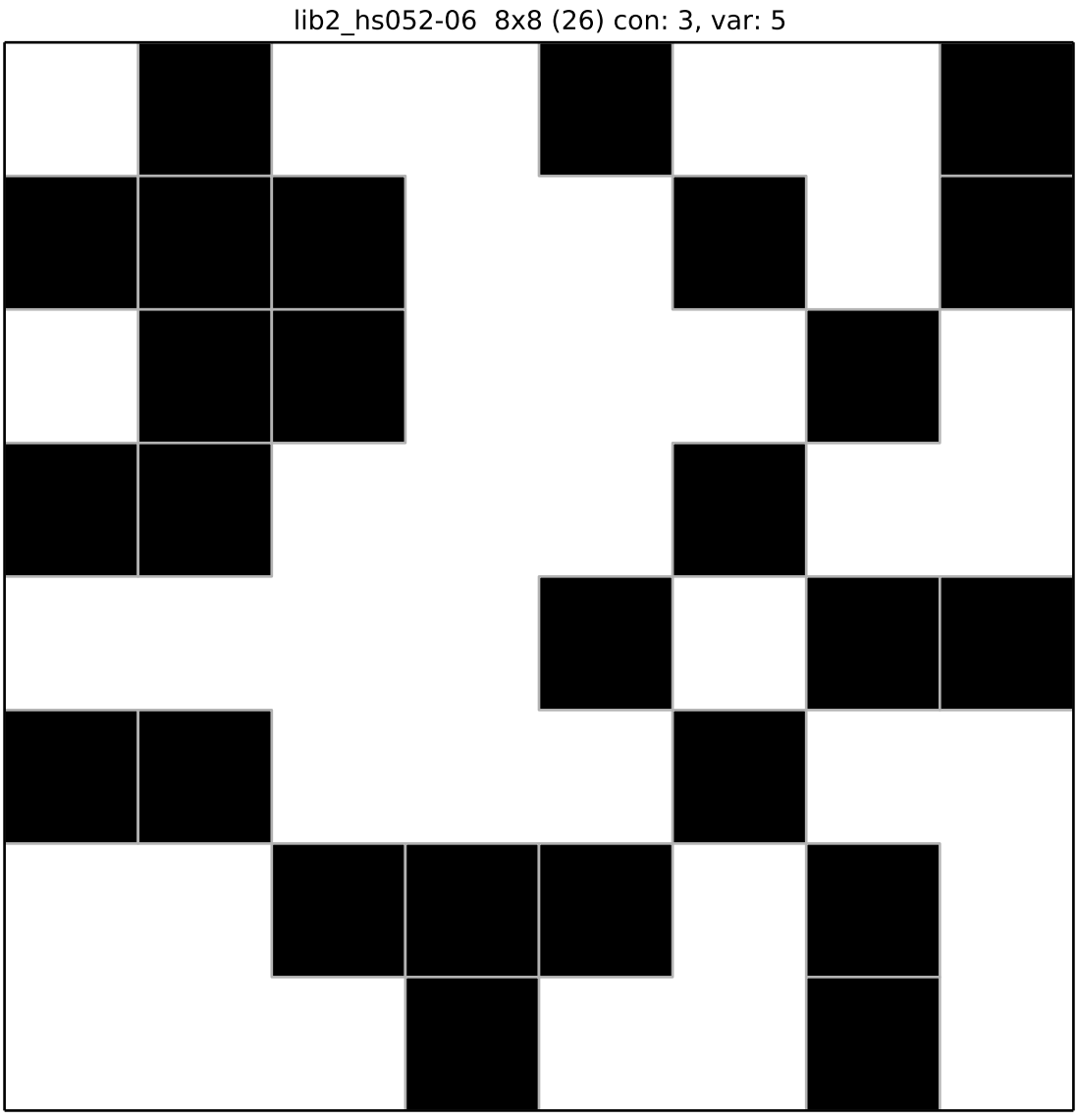
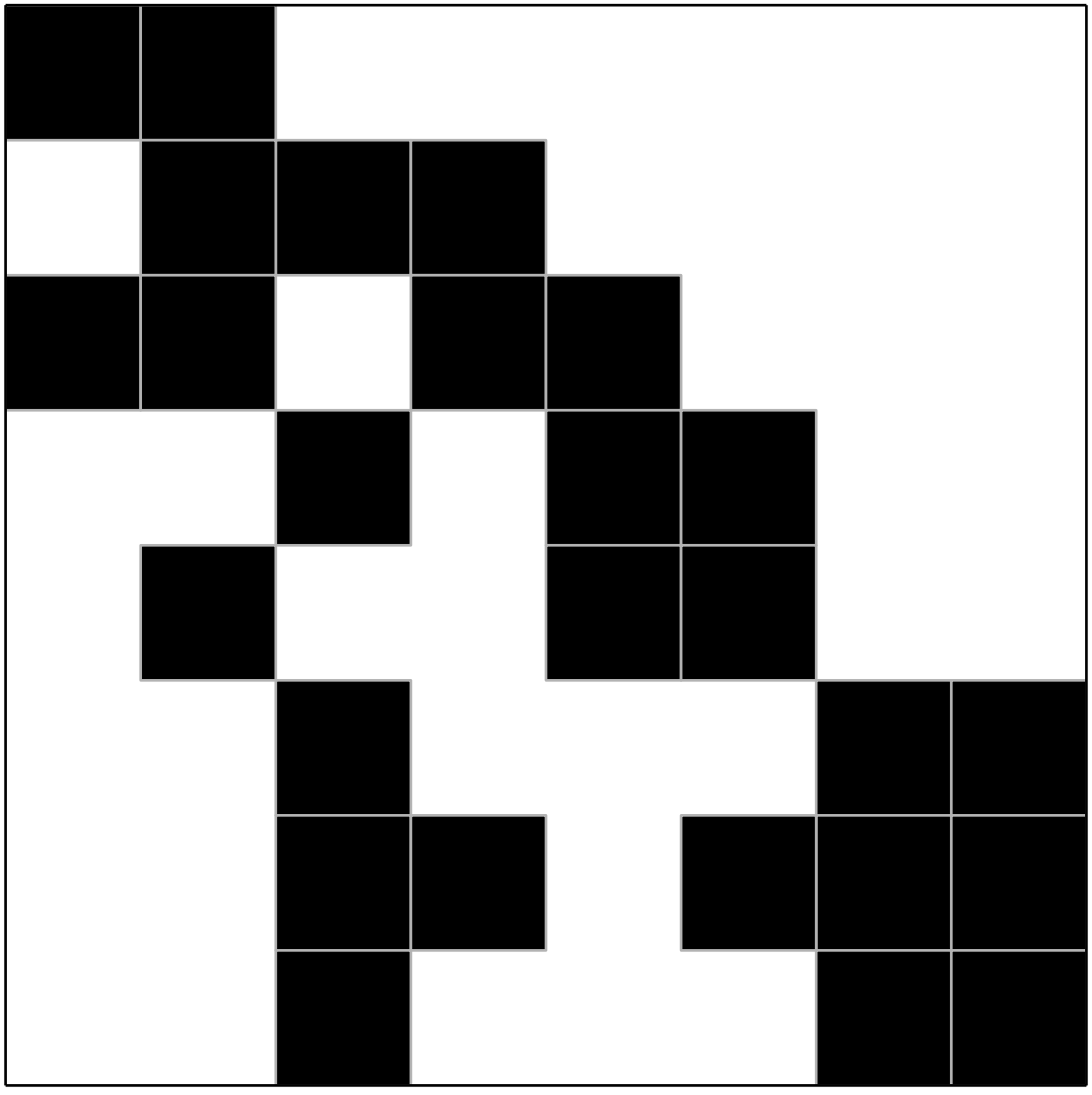
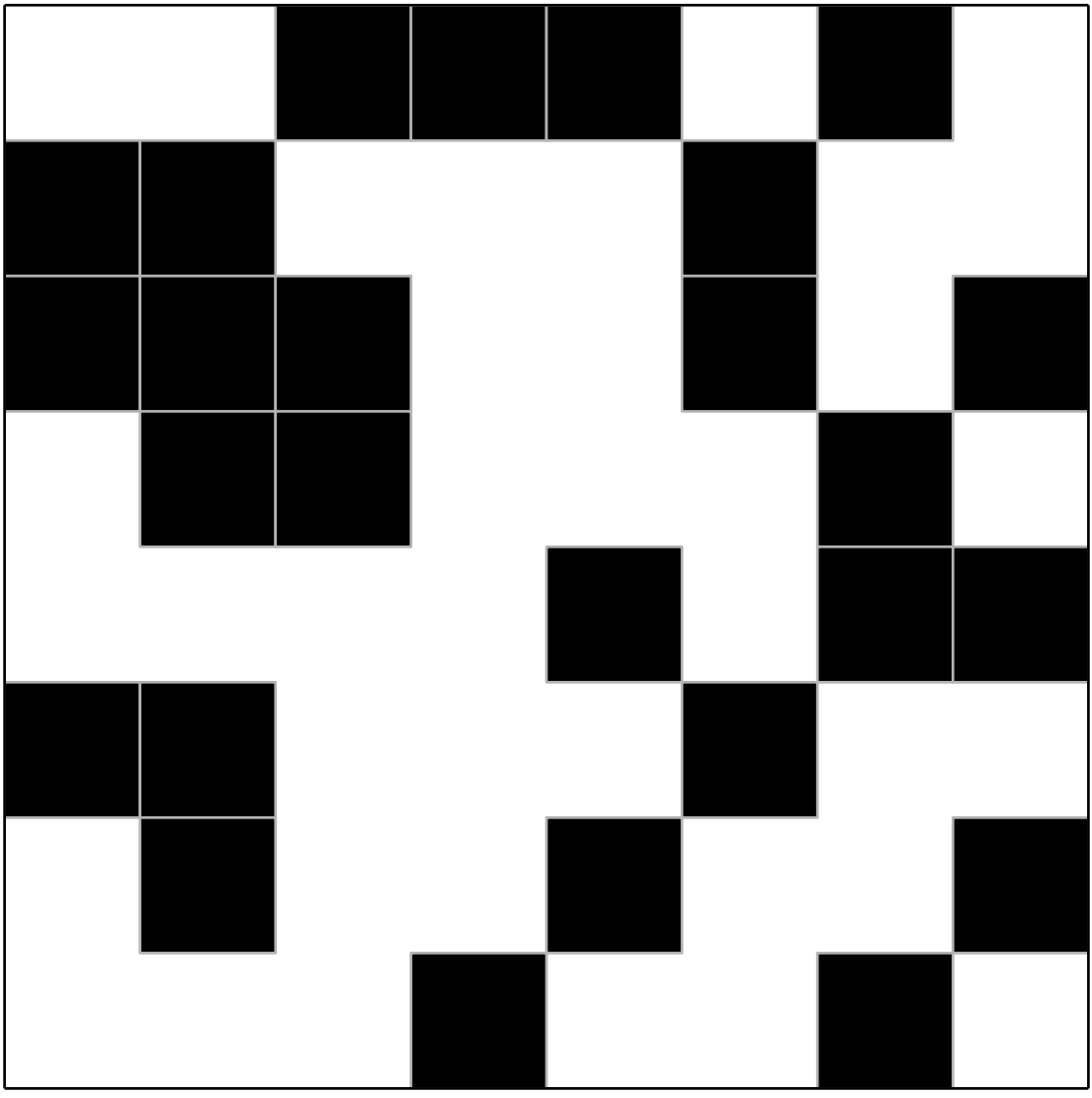



lib2_hs052-06 8x8 (26) con: 3, var: 5

lib2_hs052-06, cost: 3, diff: 3, explored: 4, time: 0.00s



lib2_hs052-07 8x8 (26) con: 3, var: 5



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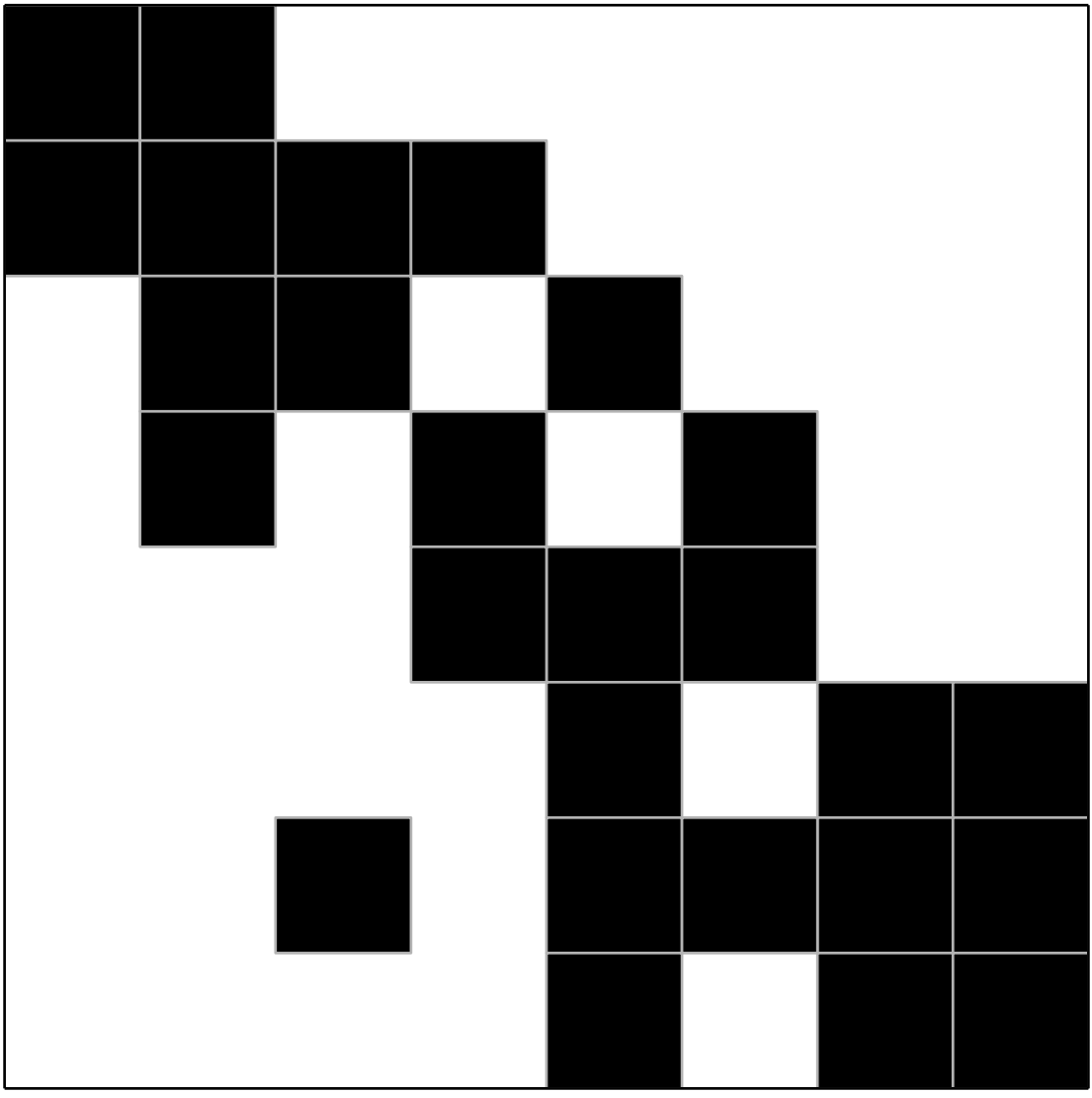
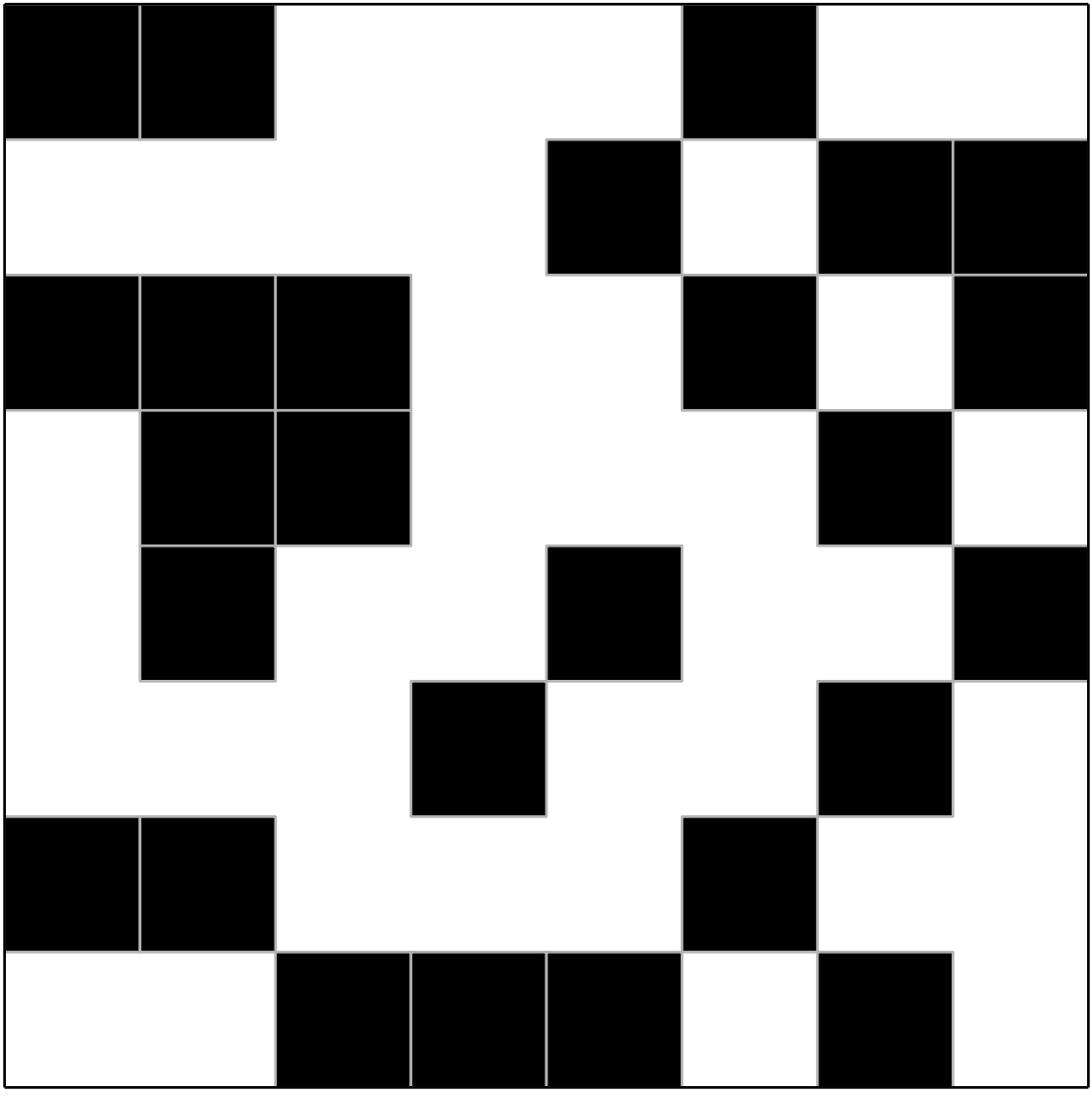


lib2_hs052-08 8x8 (26) con: 3, var: 5



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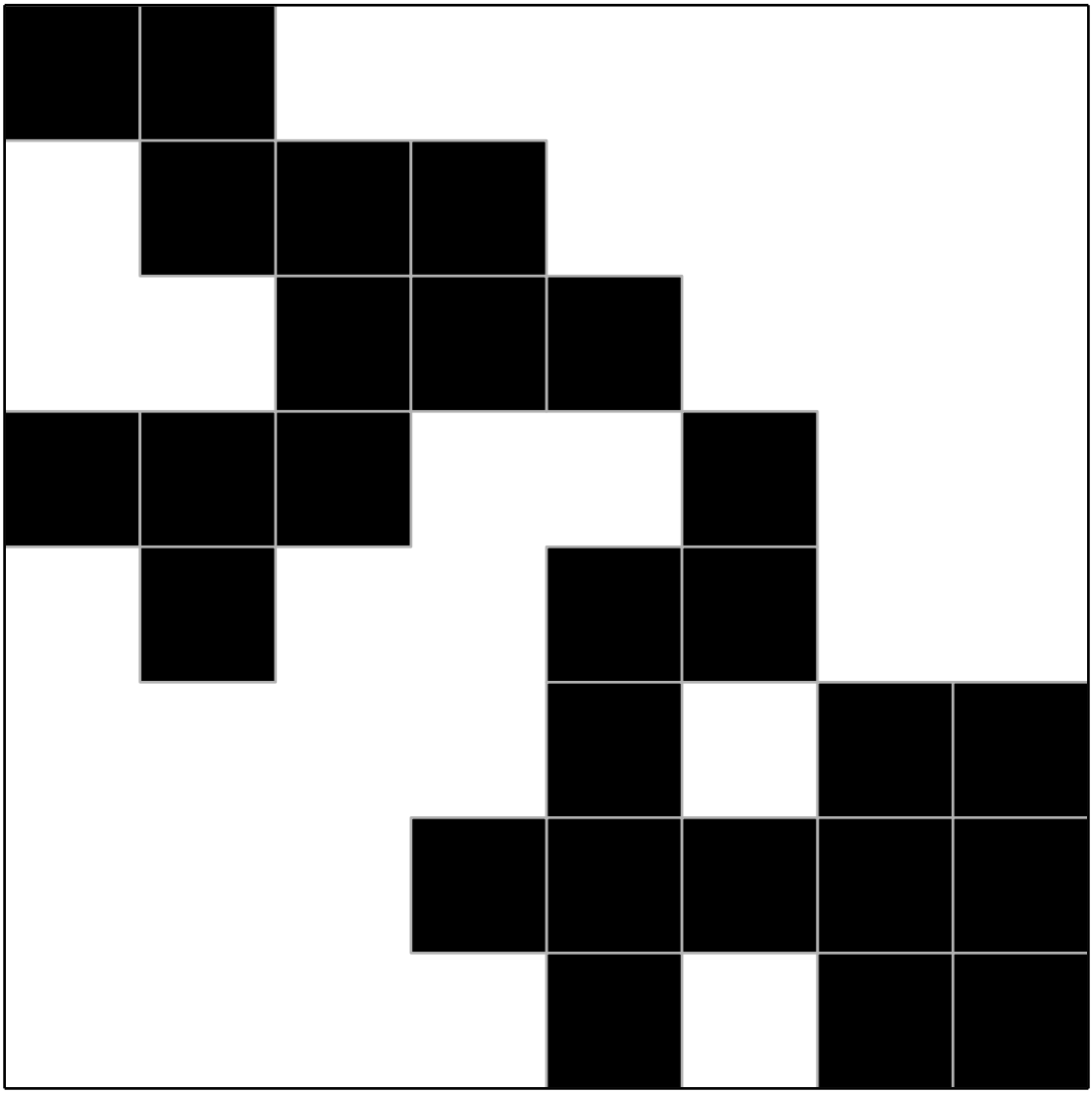

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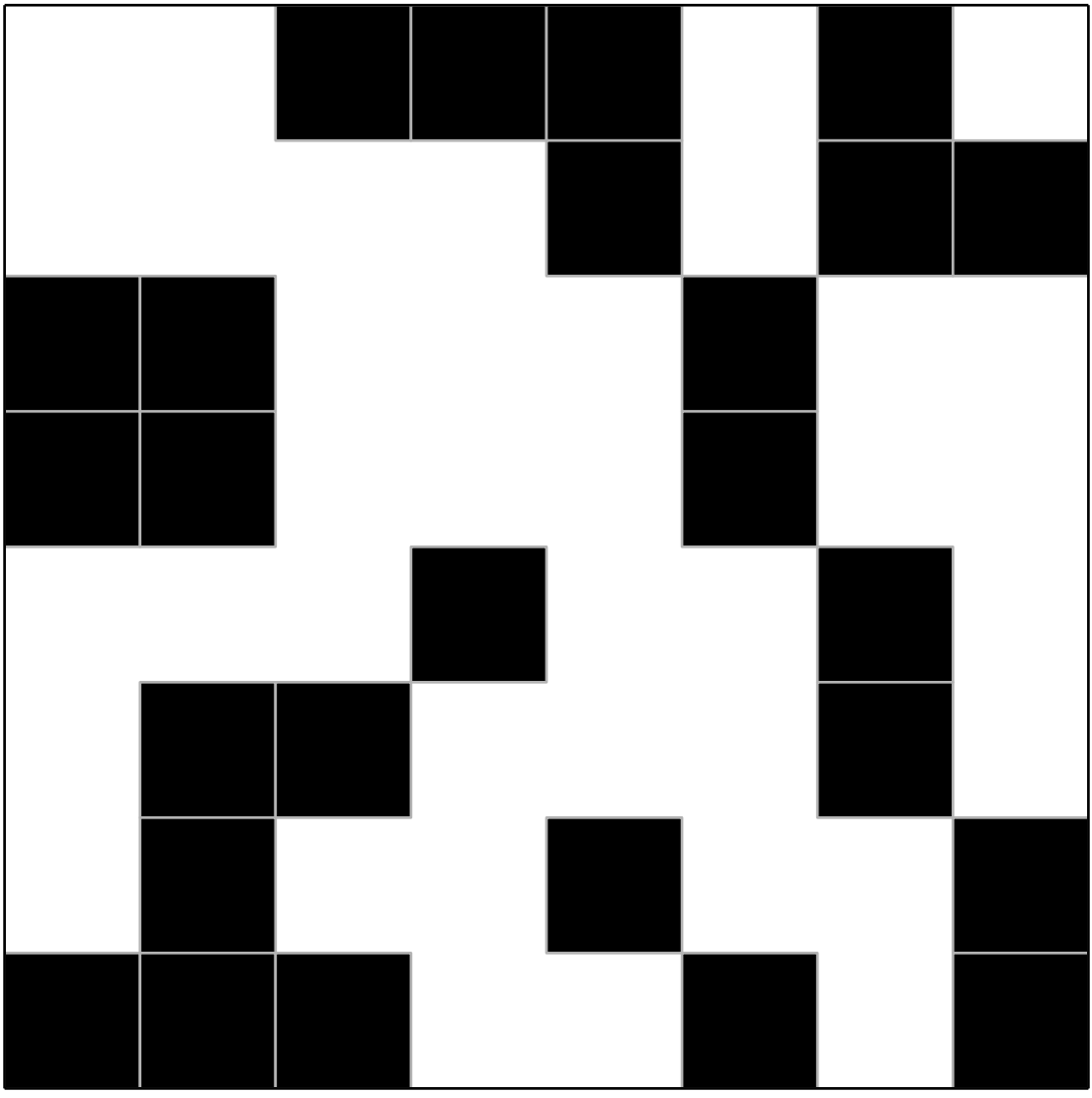

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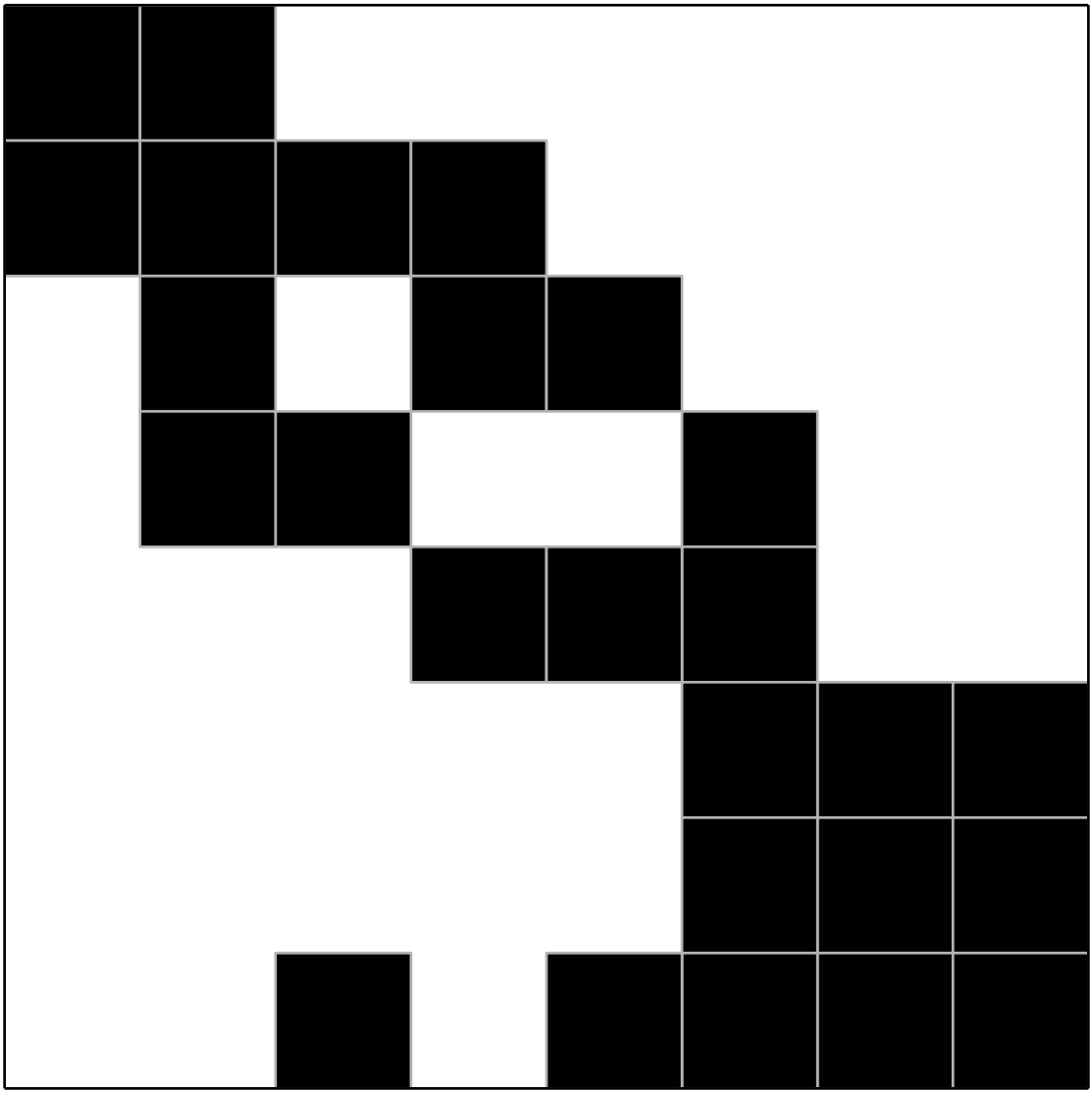
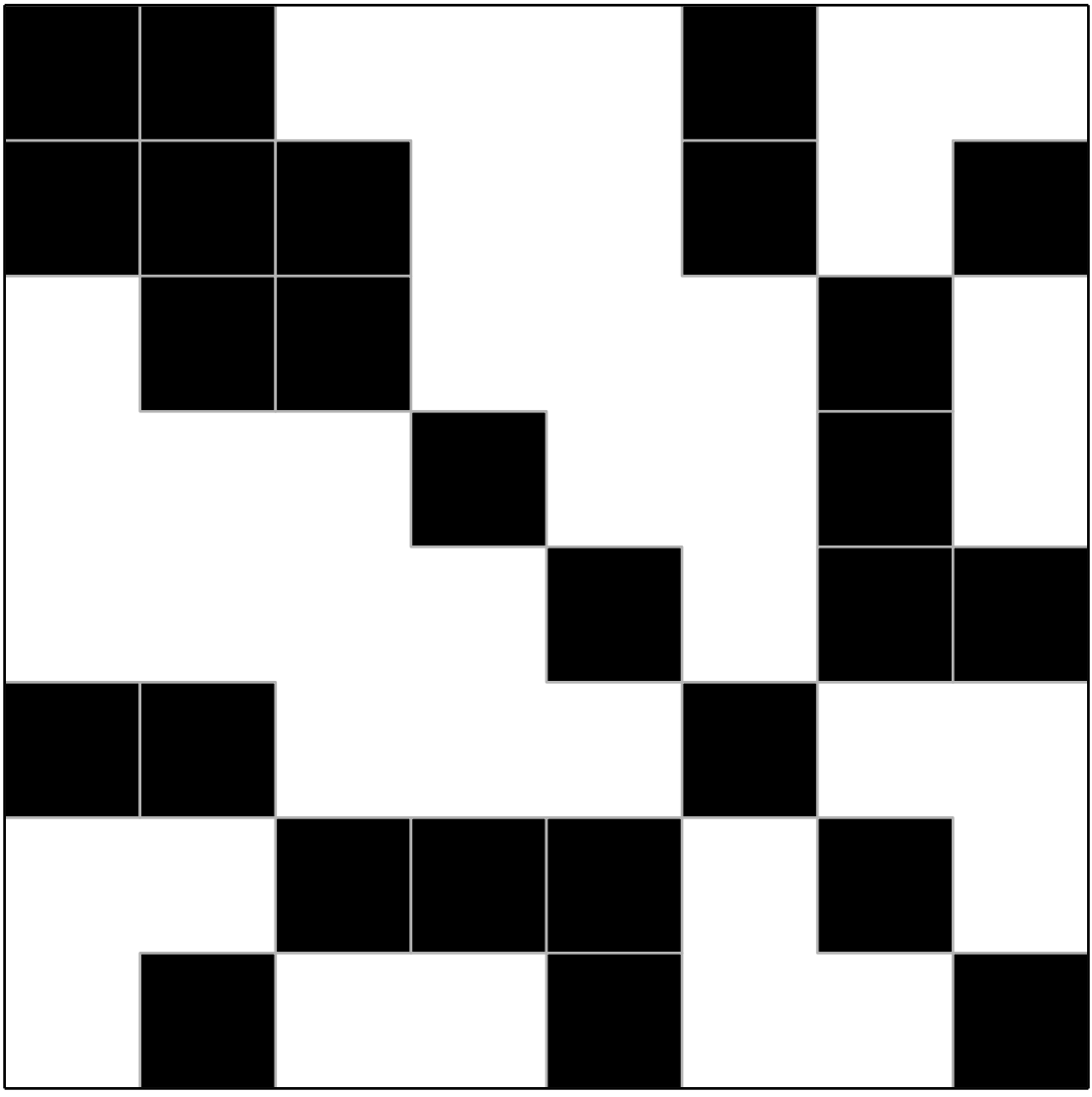
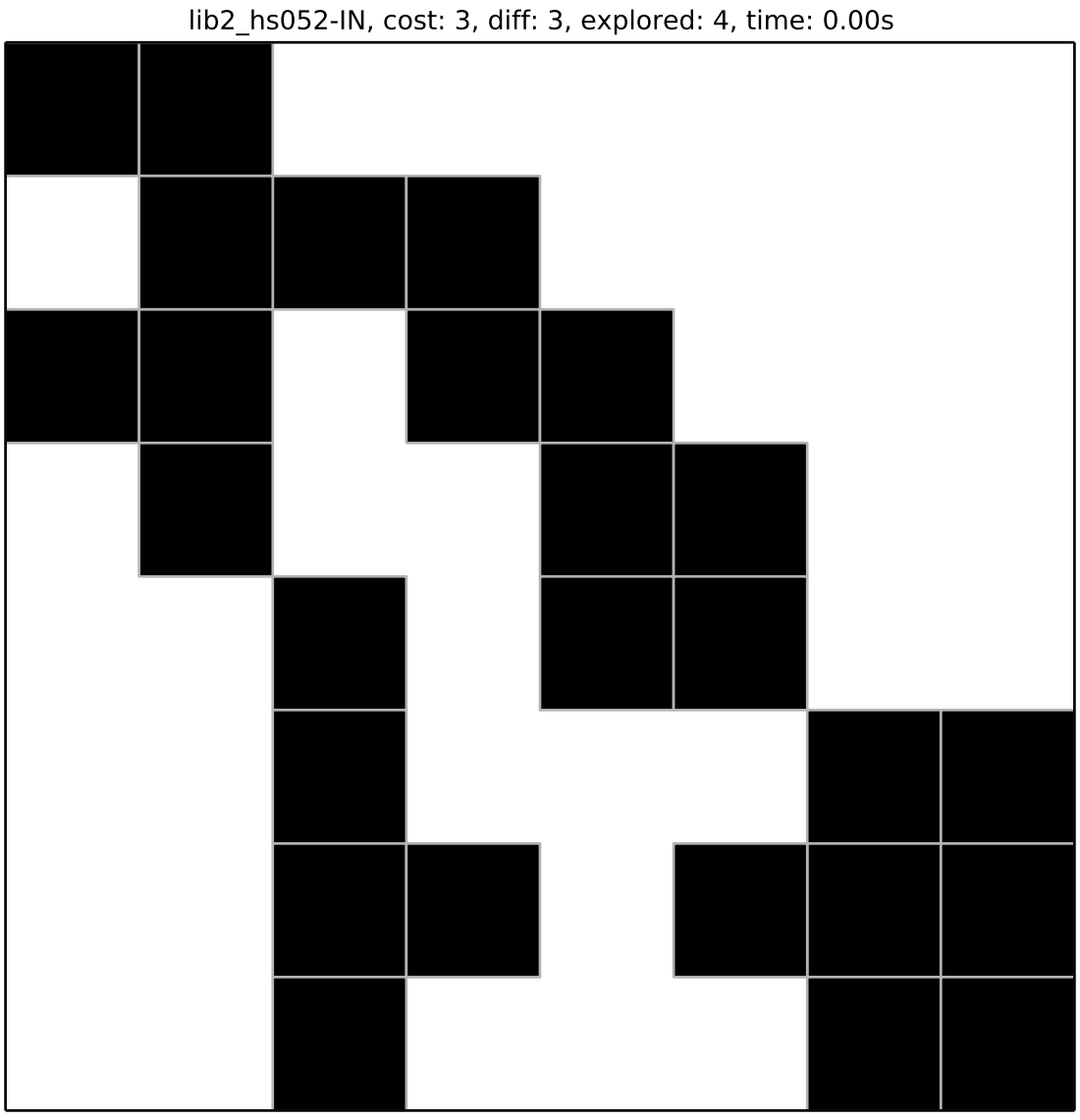


lib2_hs052-IN 8x8 (26) con: 3, var: 5

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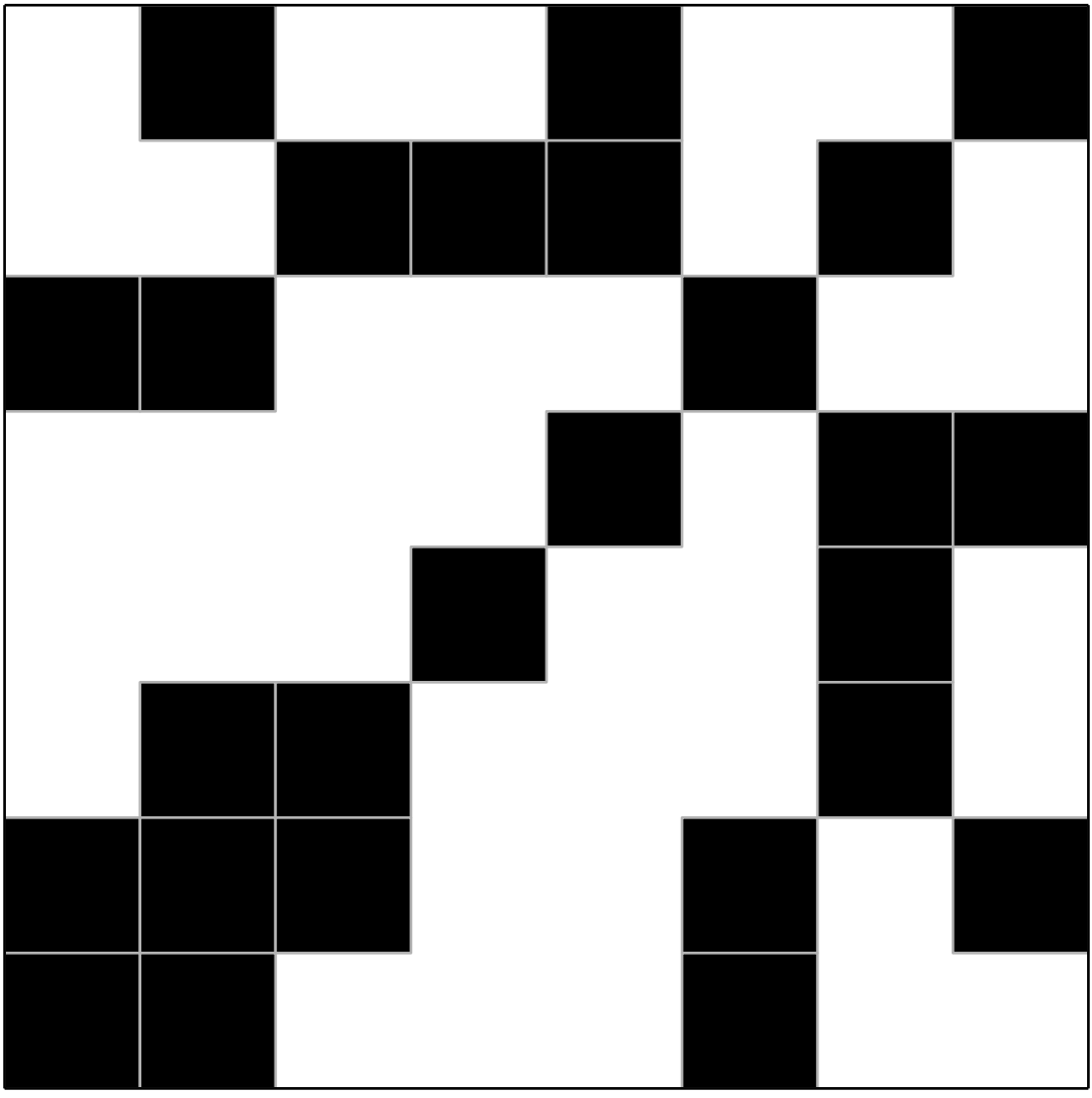
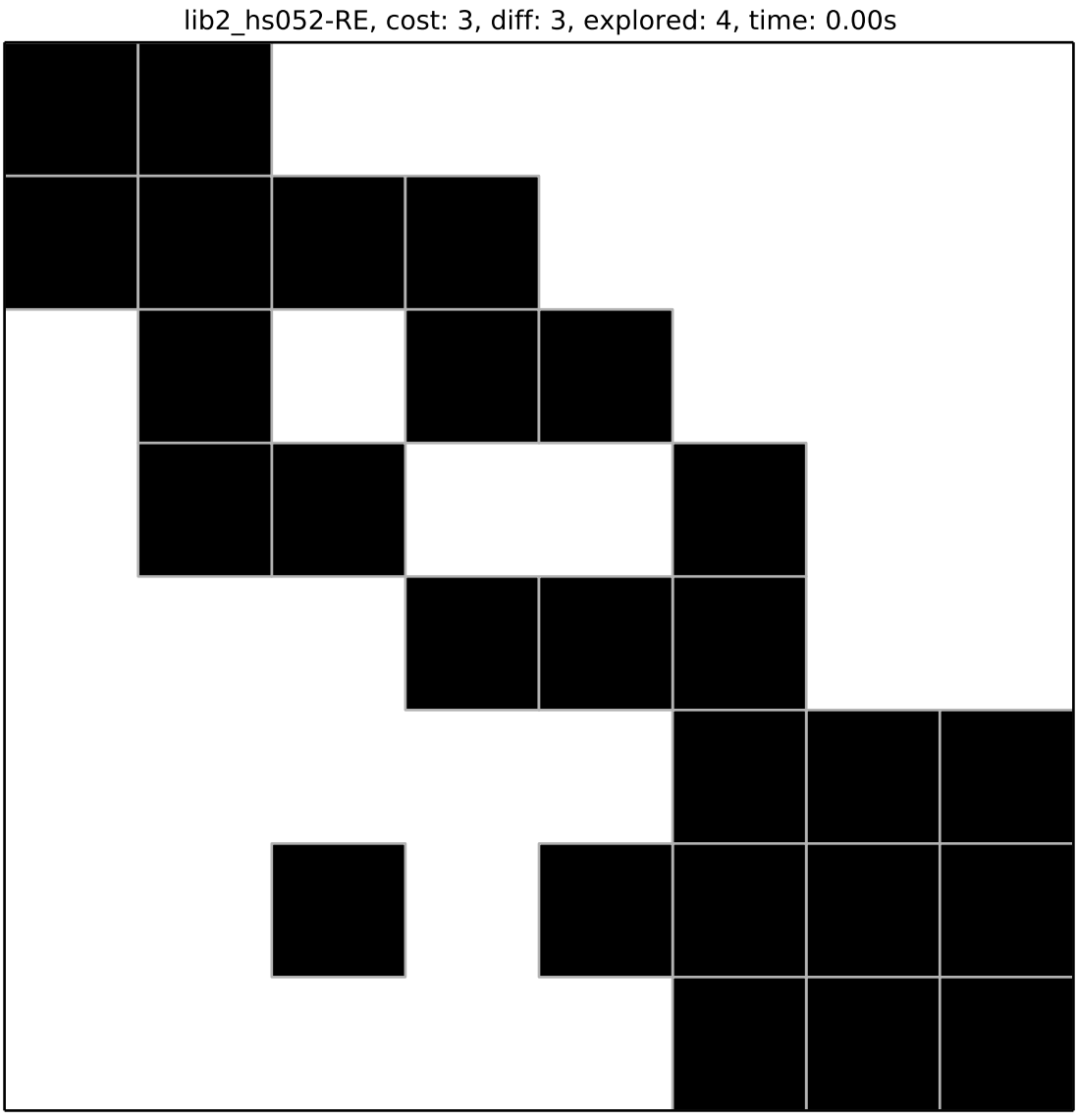
lib2_hs052-RE 8x8 (26) con: 3, var: 5

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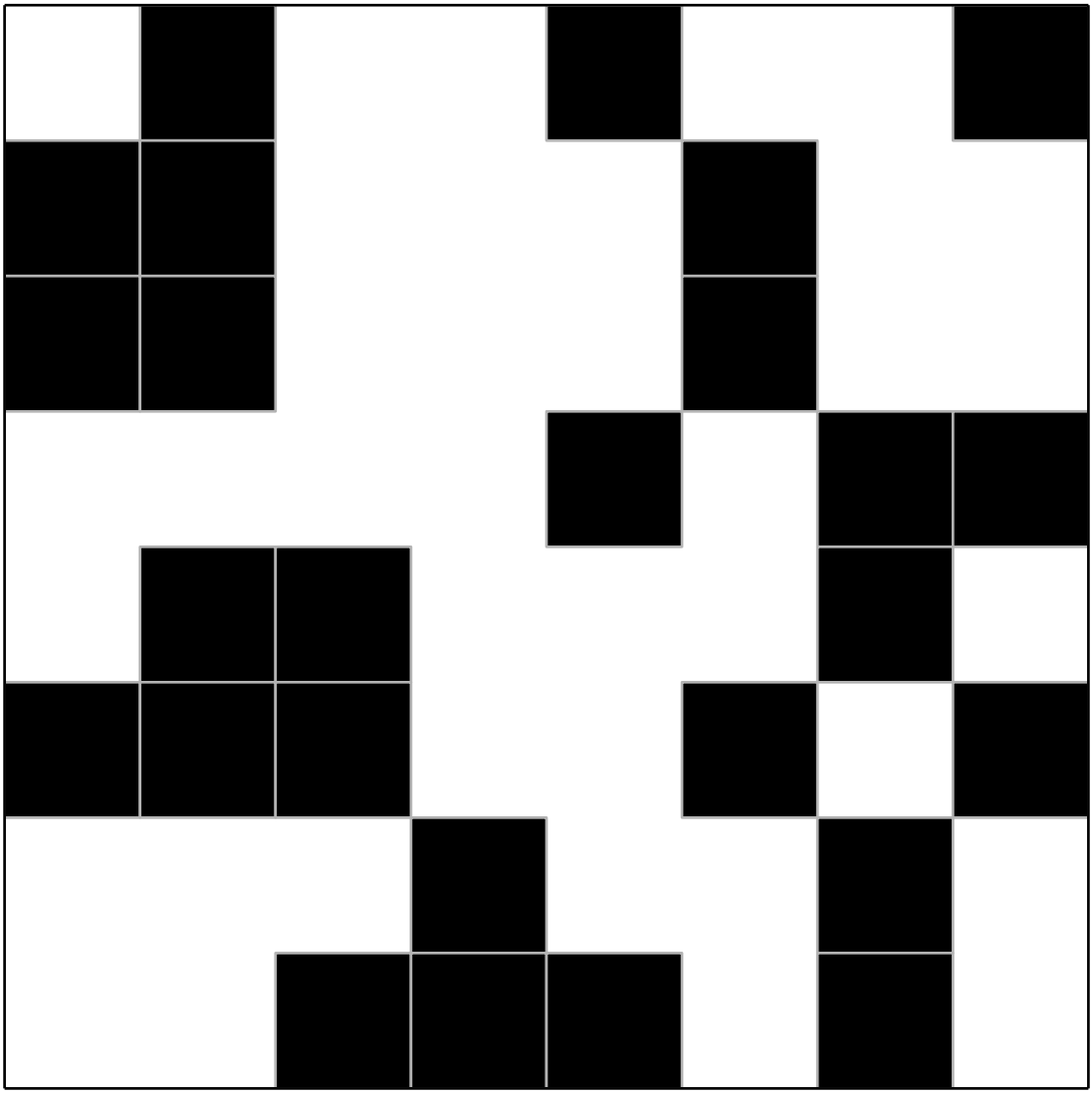

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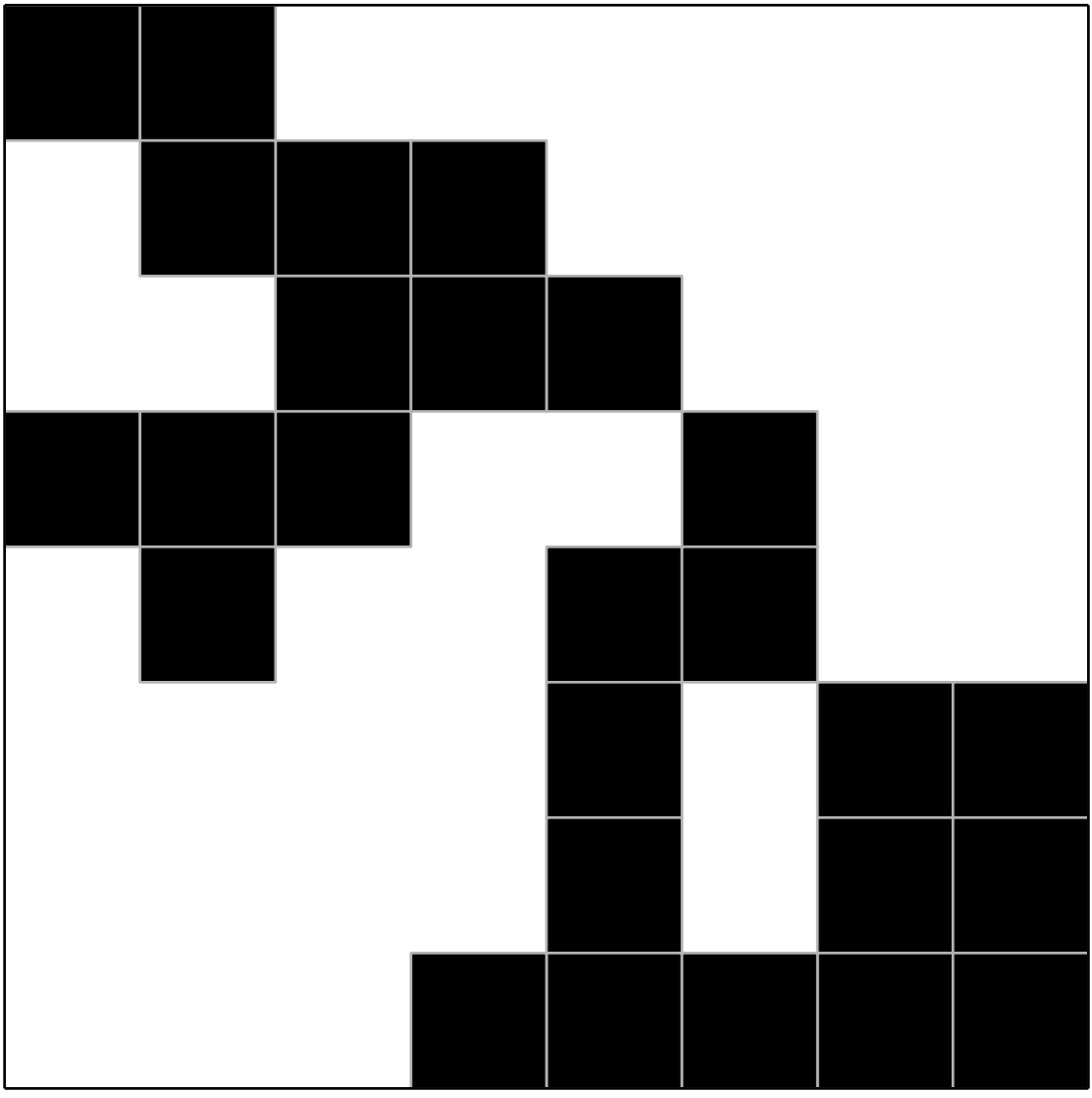
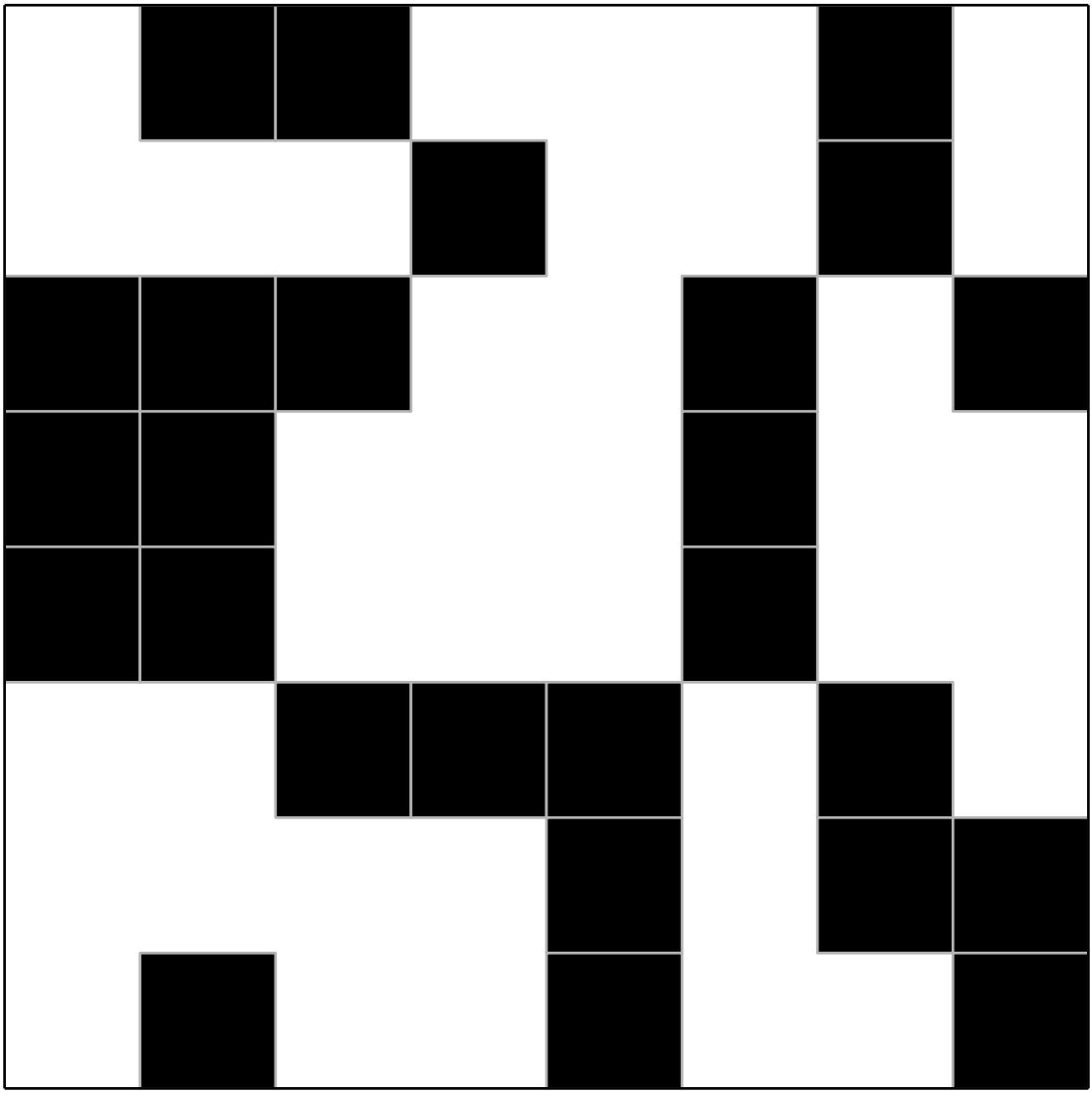


lib2_hs053-01 8x8 (26) con: 3, var: 5



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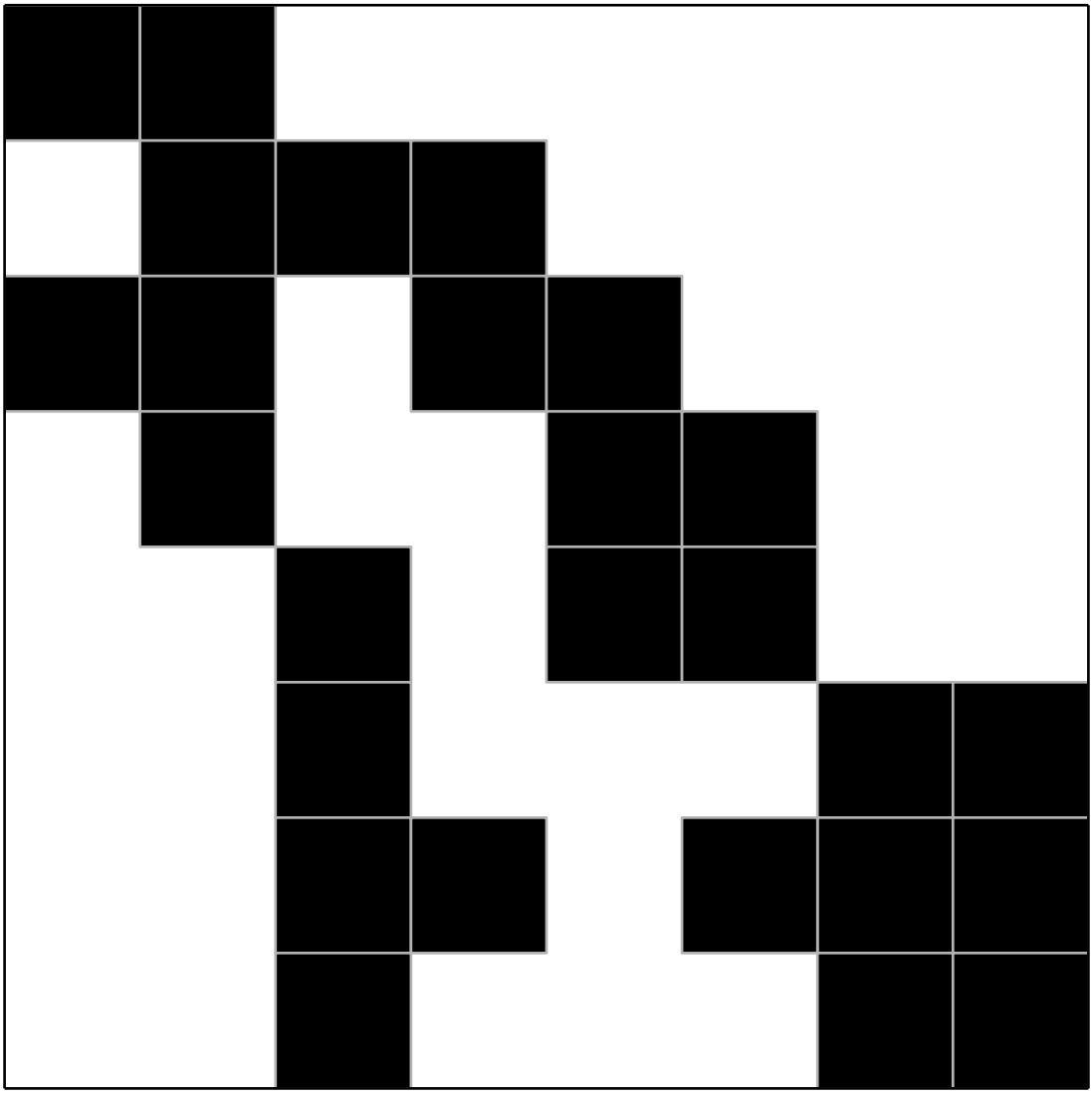

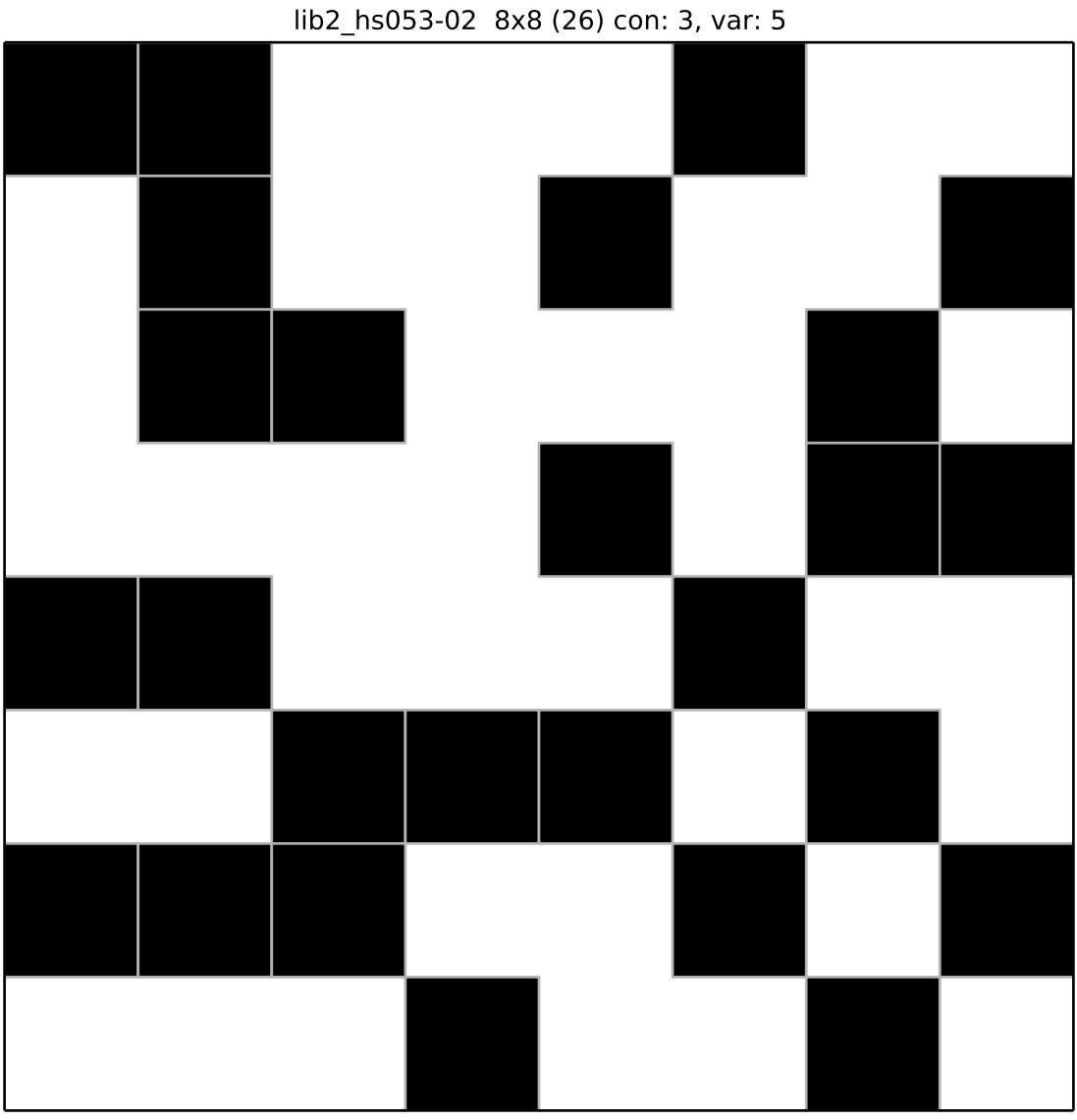
lib2_hs053-02 8x8 (26) con: 3, var: 5

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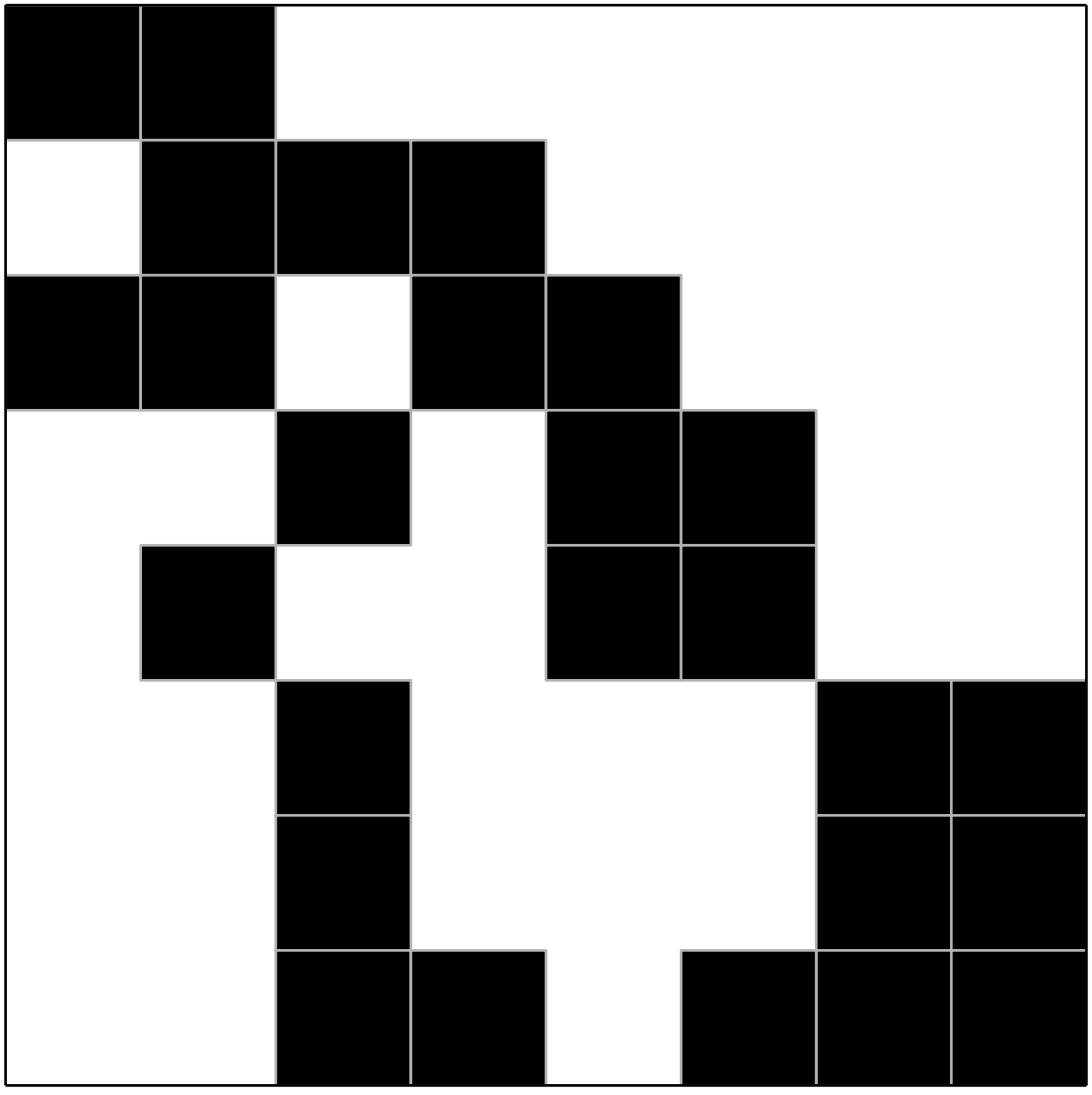

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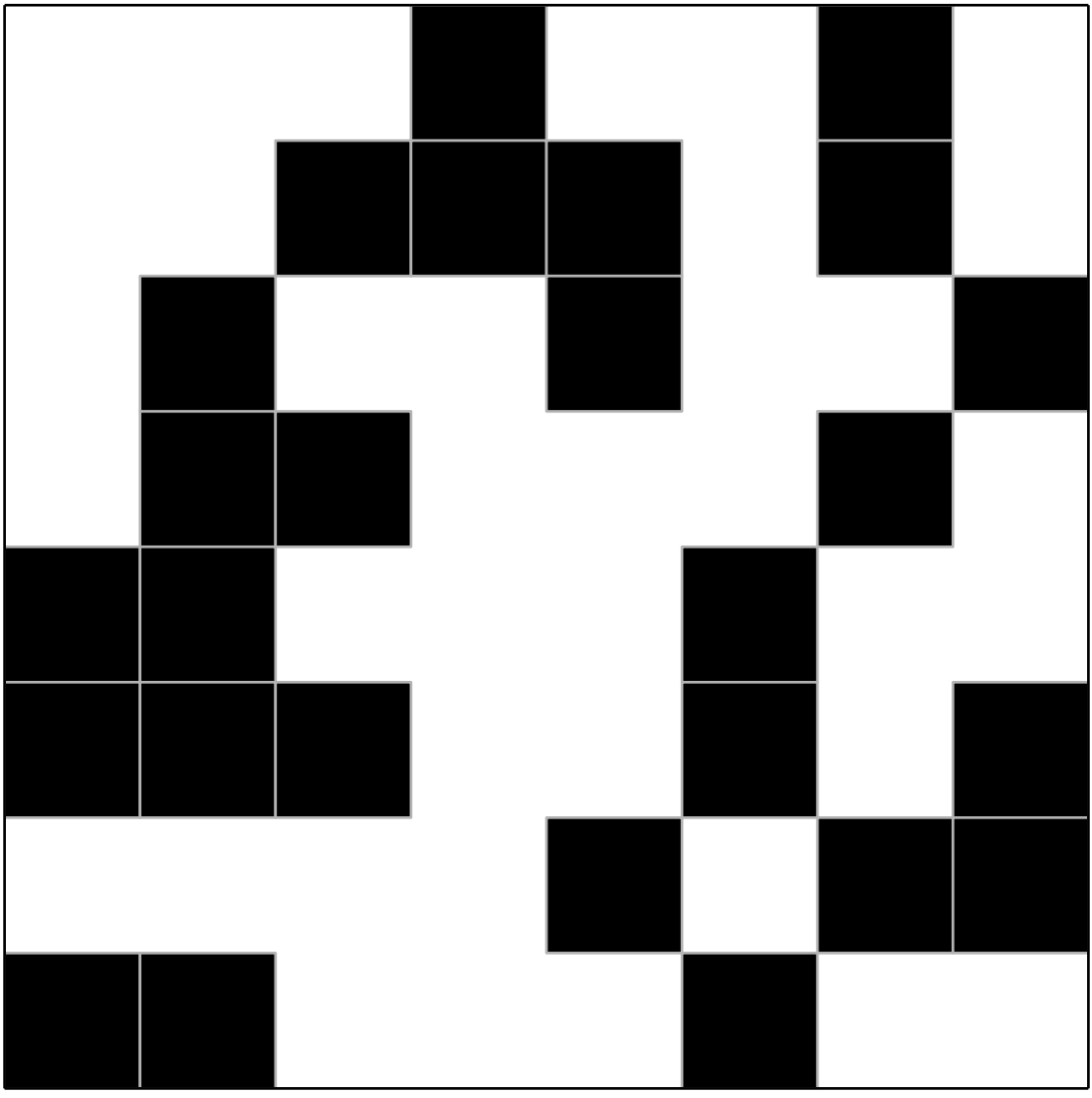

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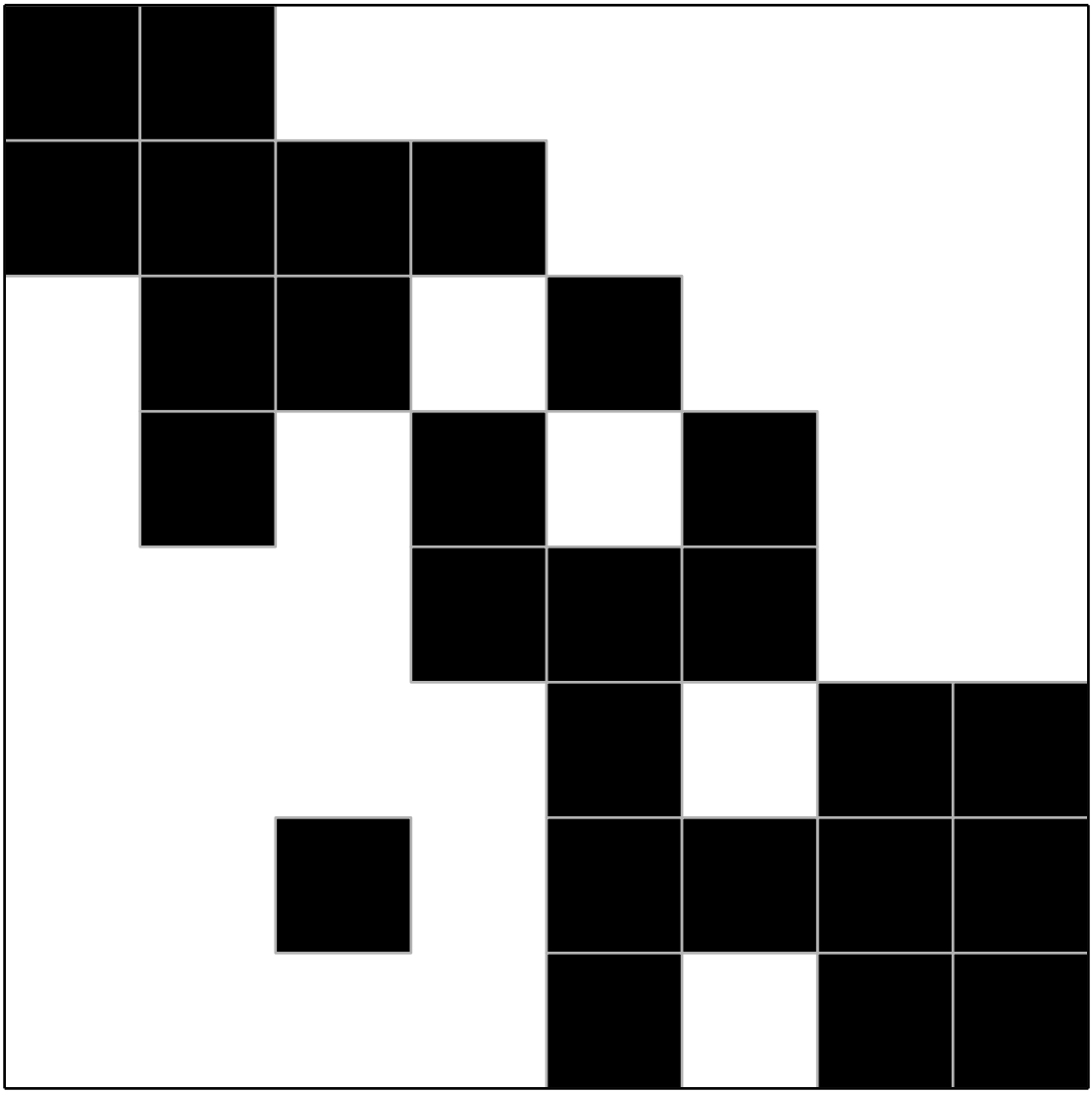
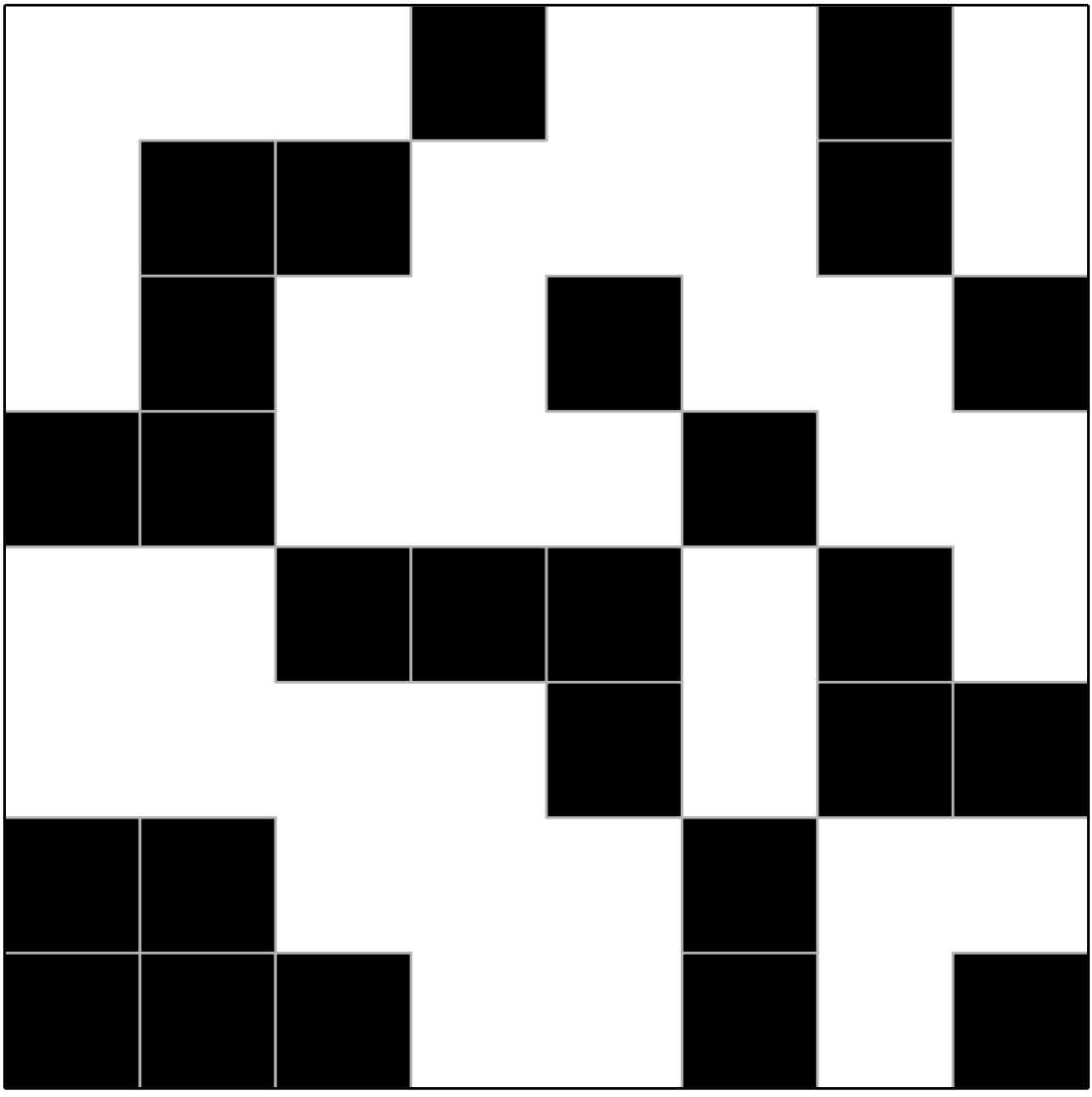


lib2_hs053-04 8x8 (26) con: 3, var: 5



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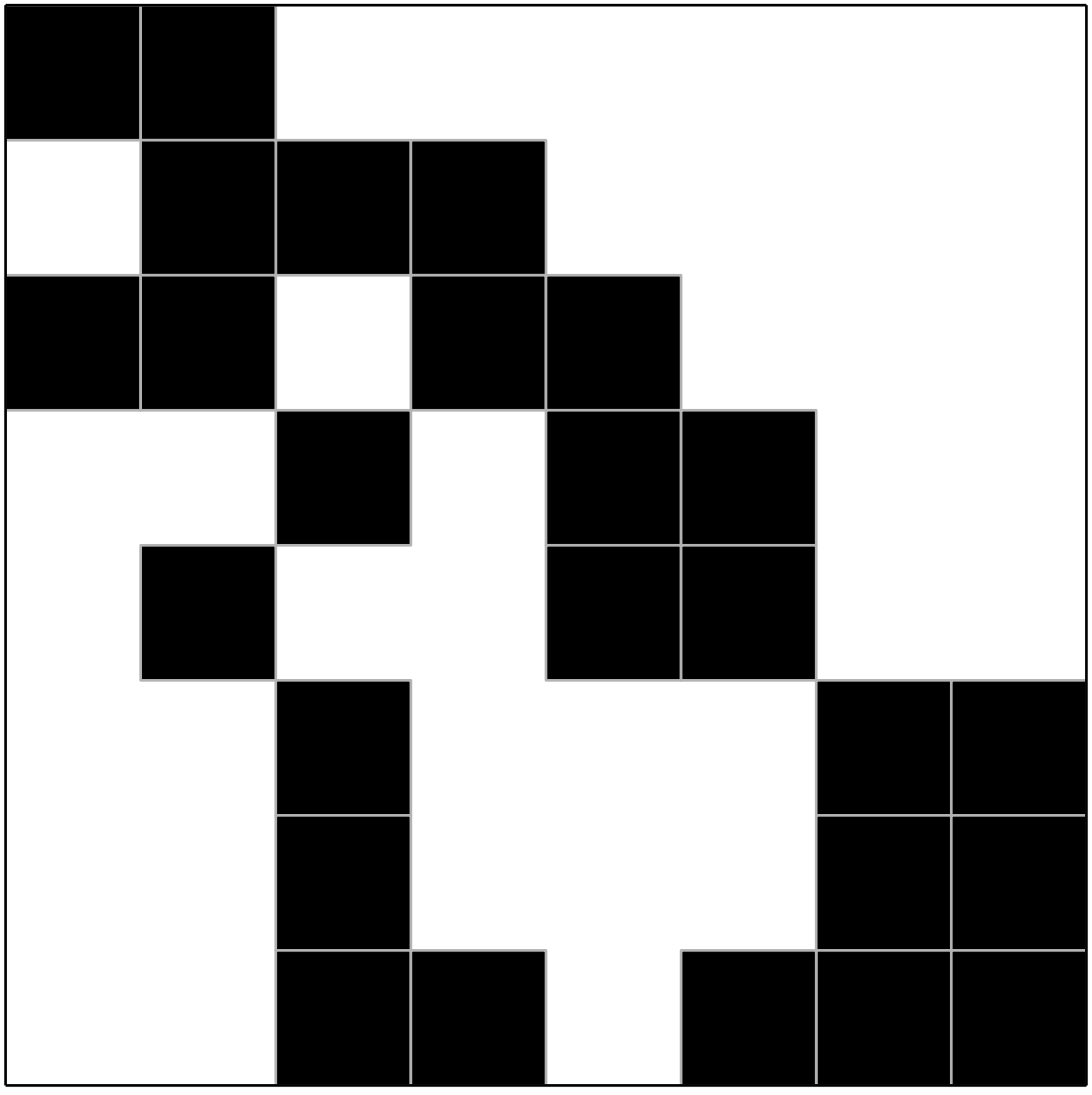

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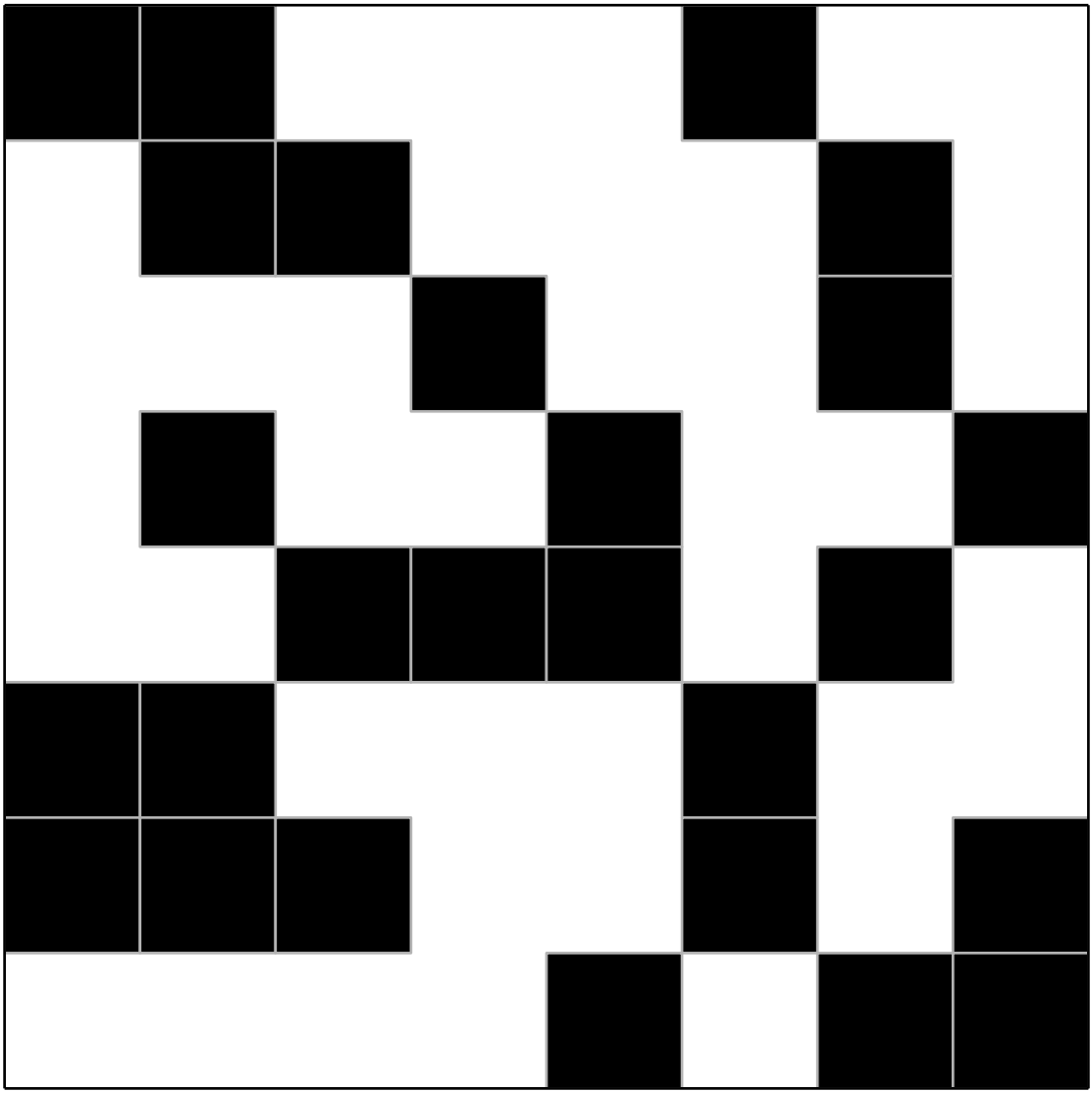

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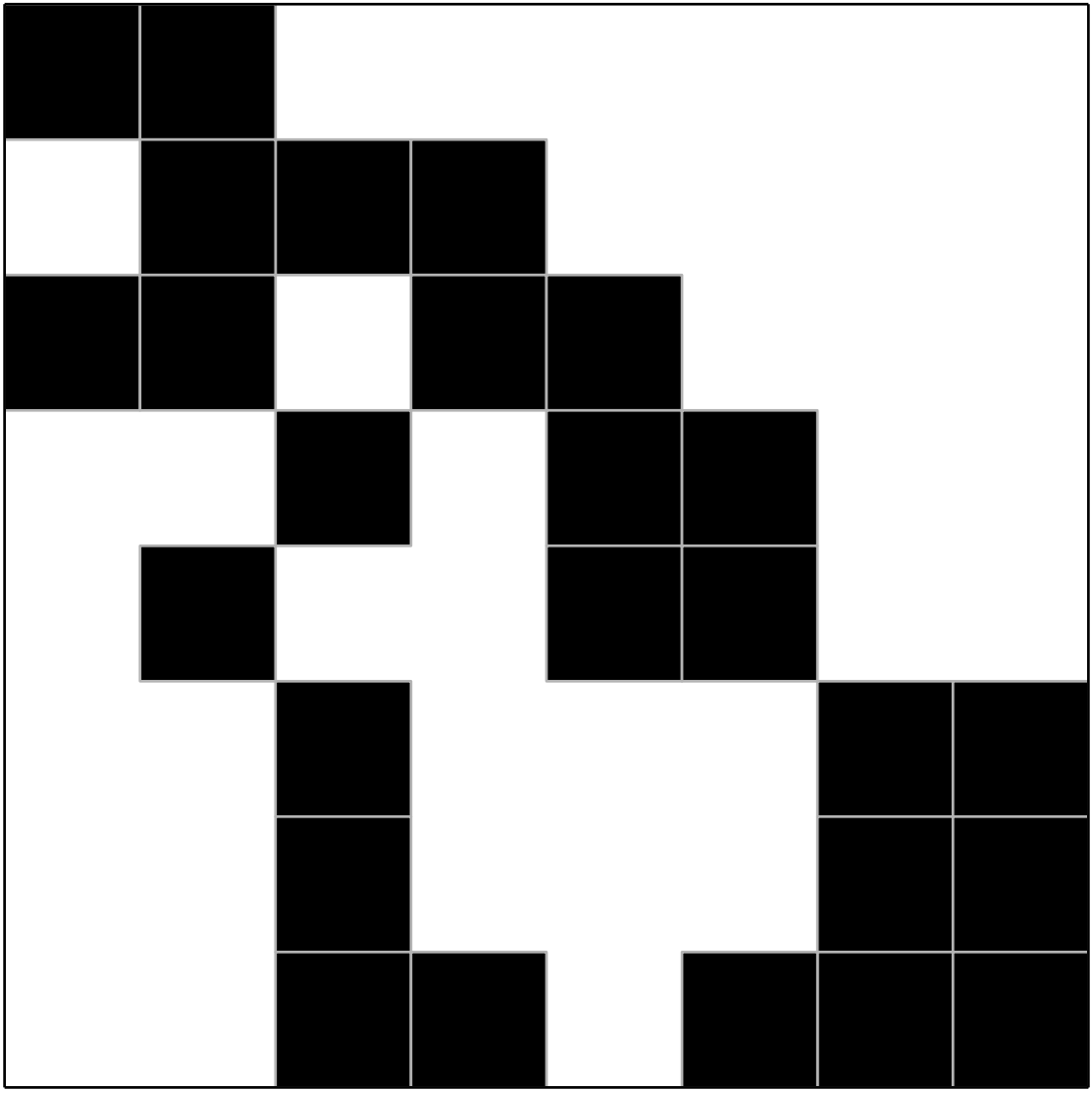

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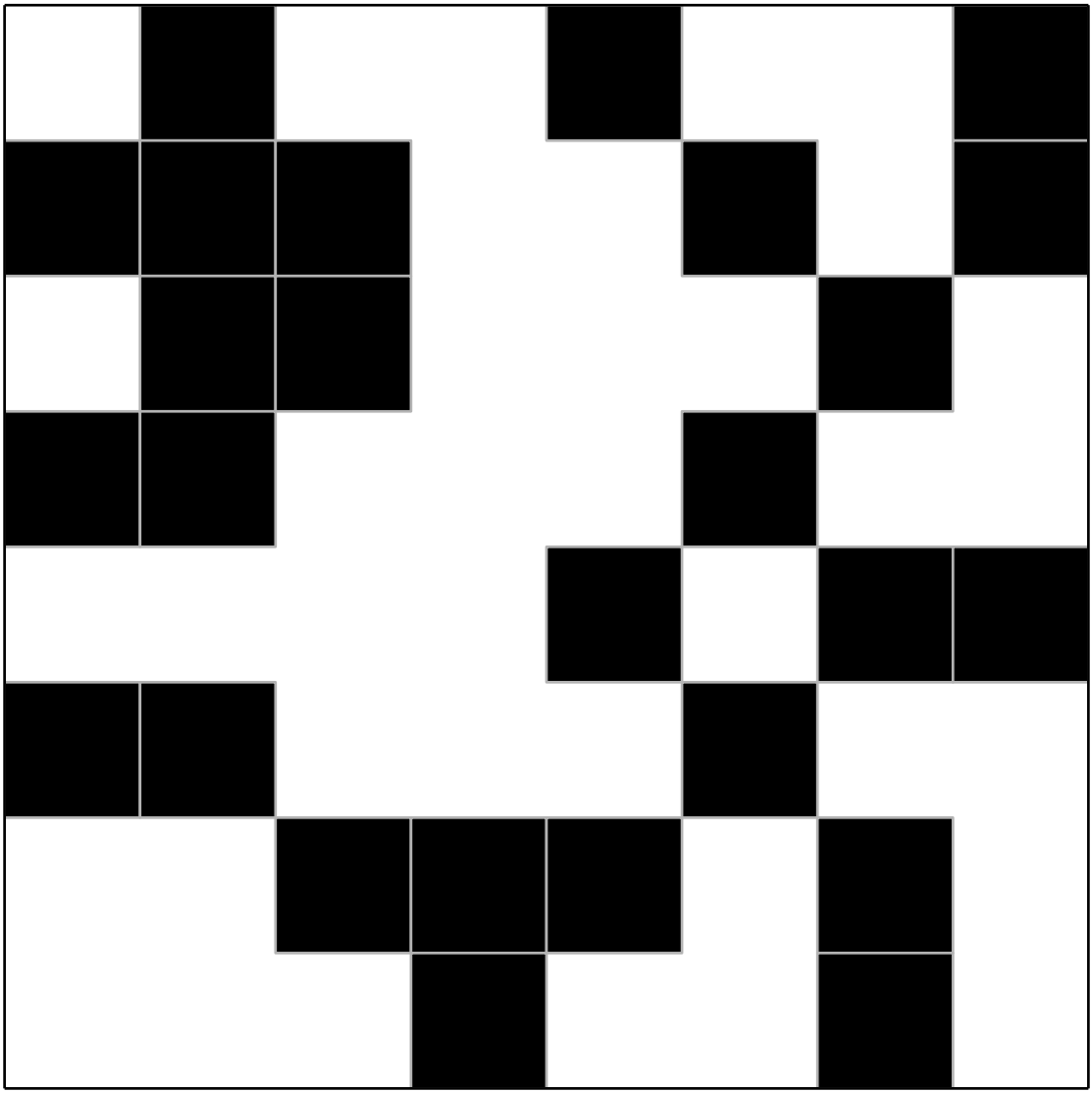

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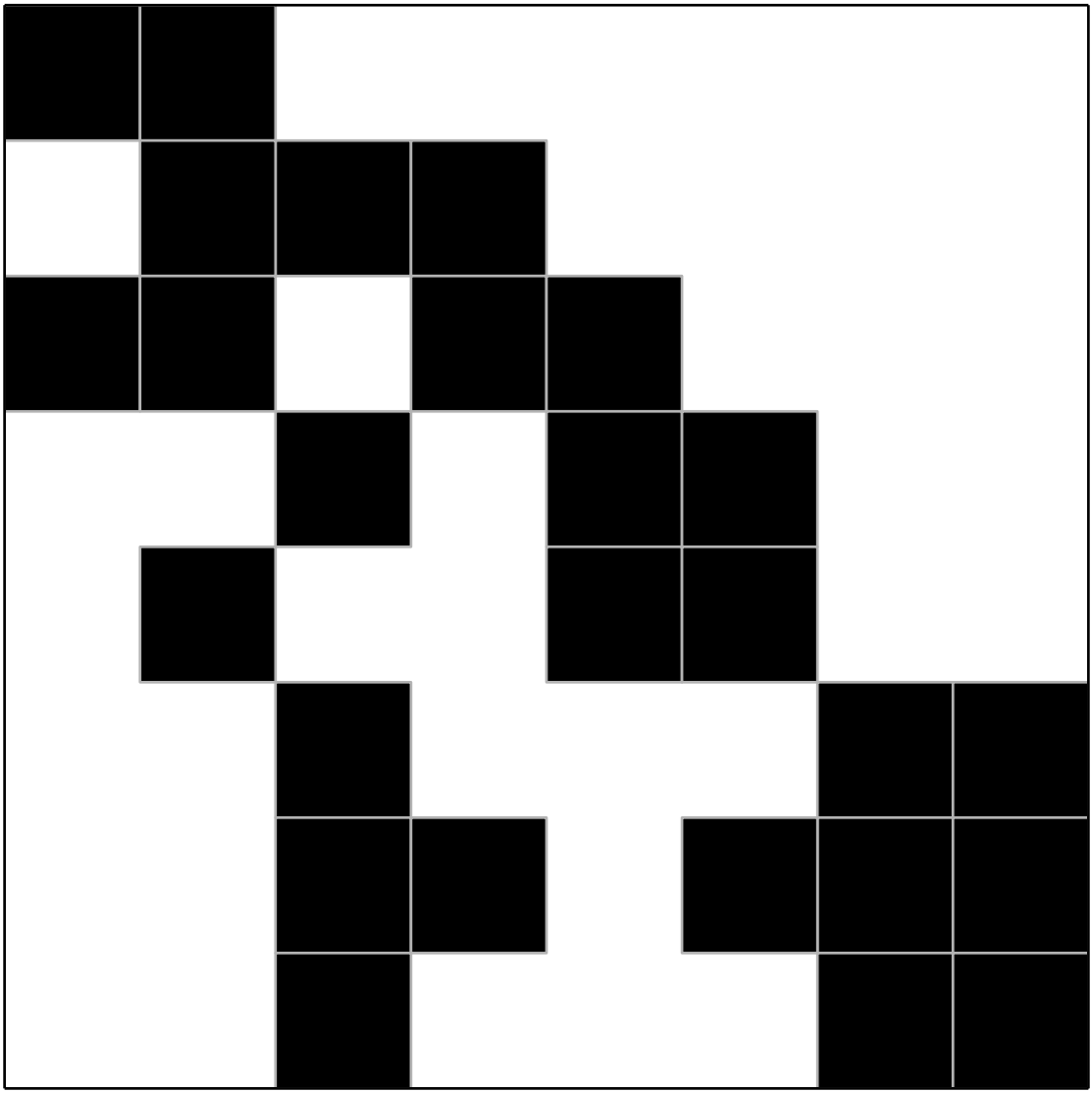

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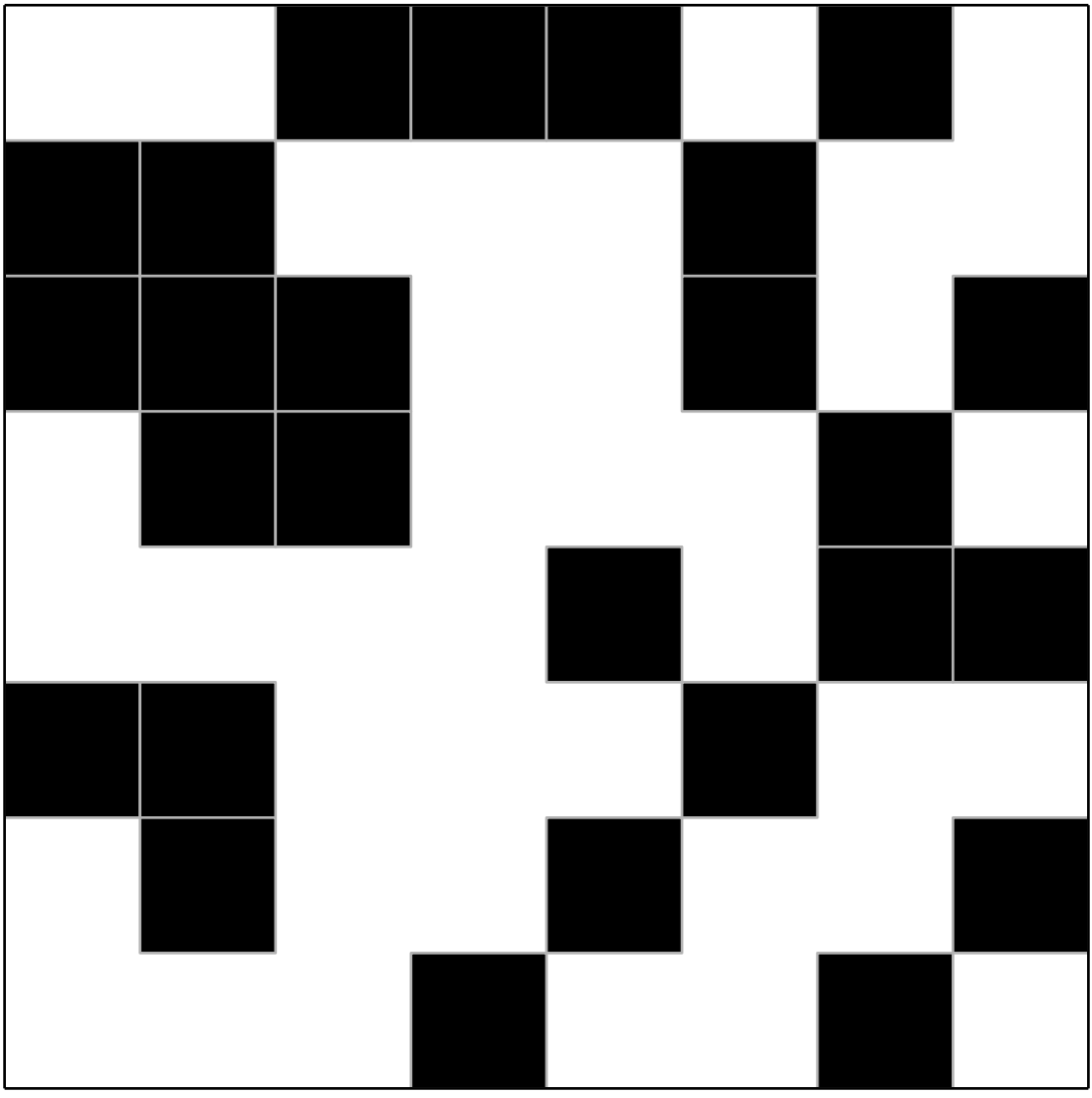

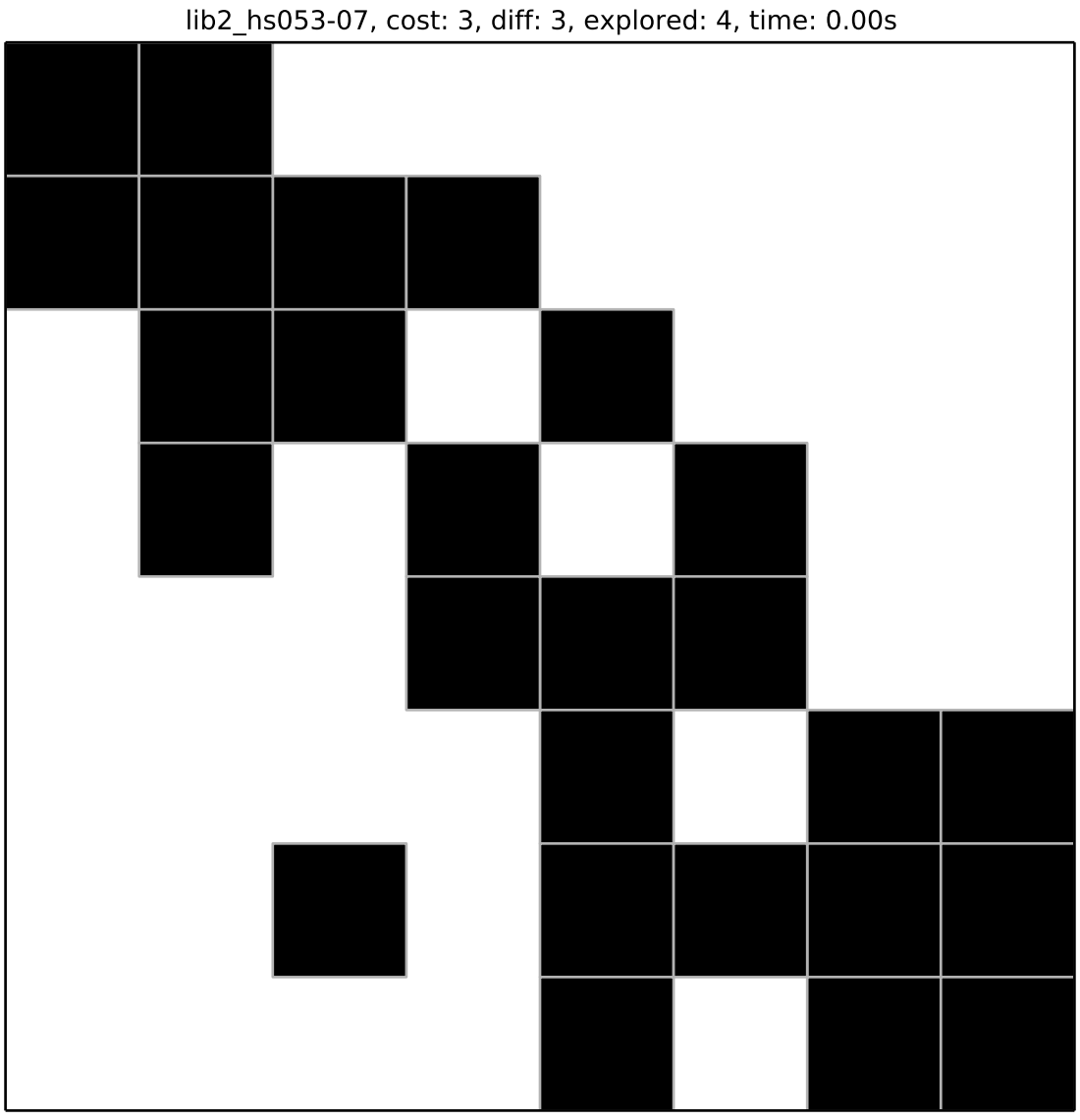
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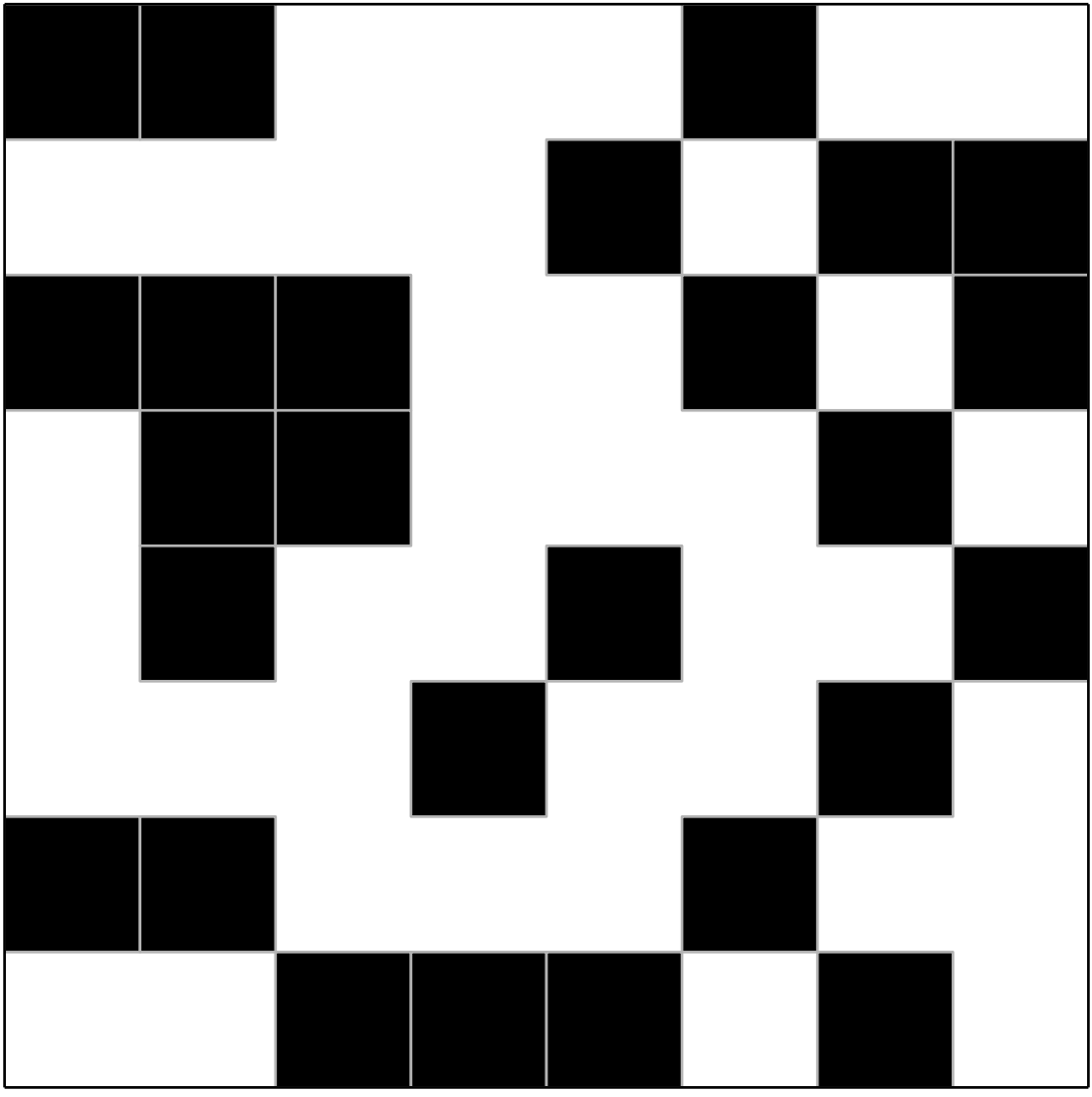
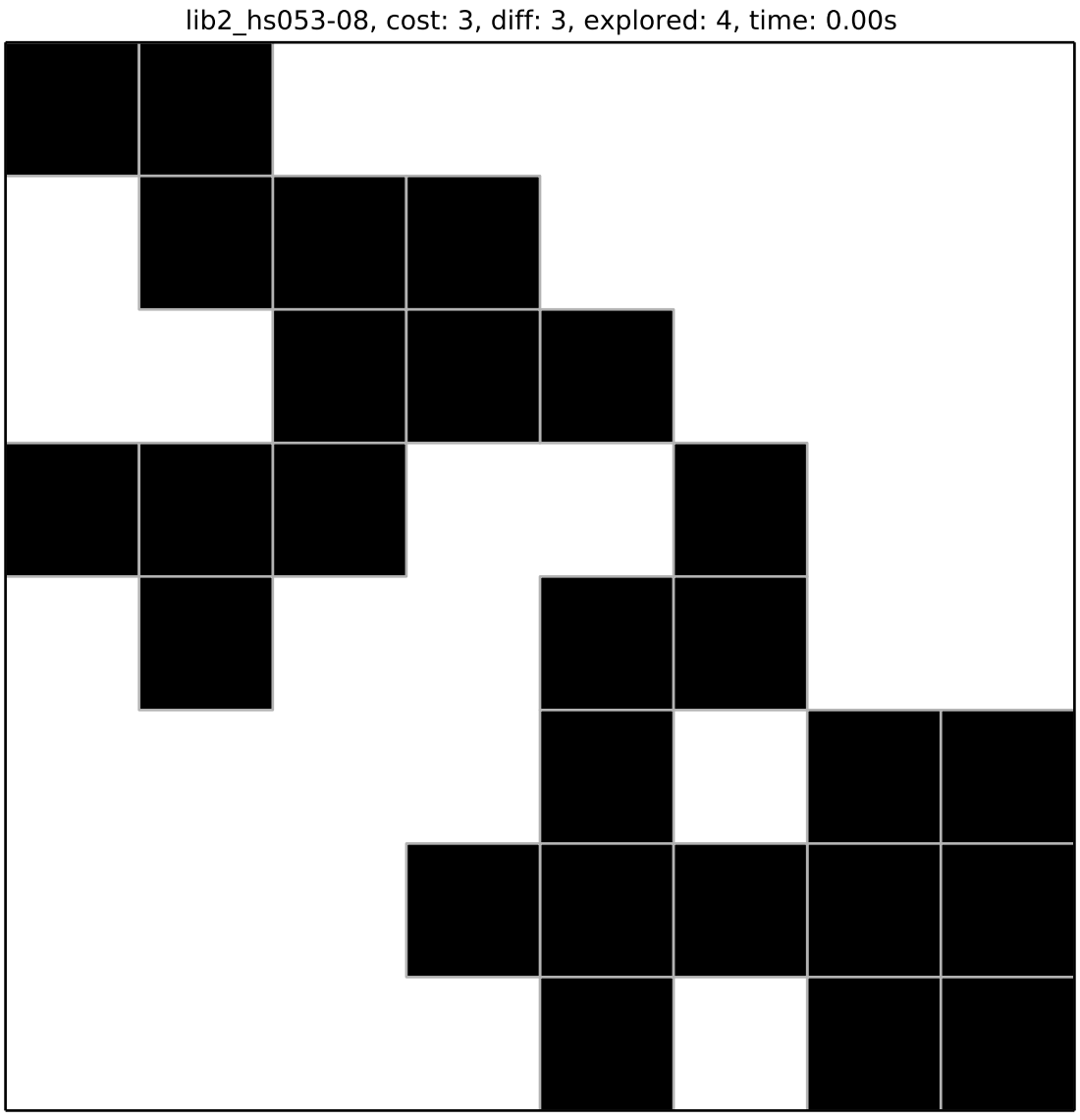
lib2_hs053-08 8x8 (26) con: 3, var: 5

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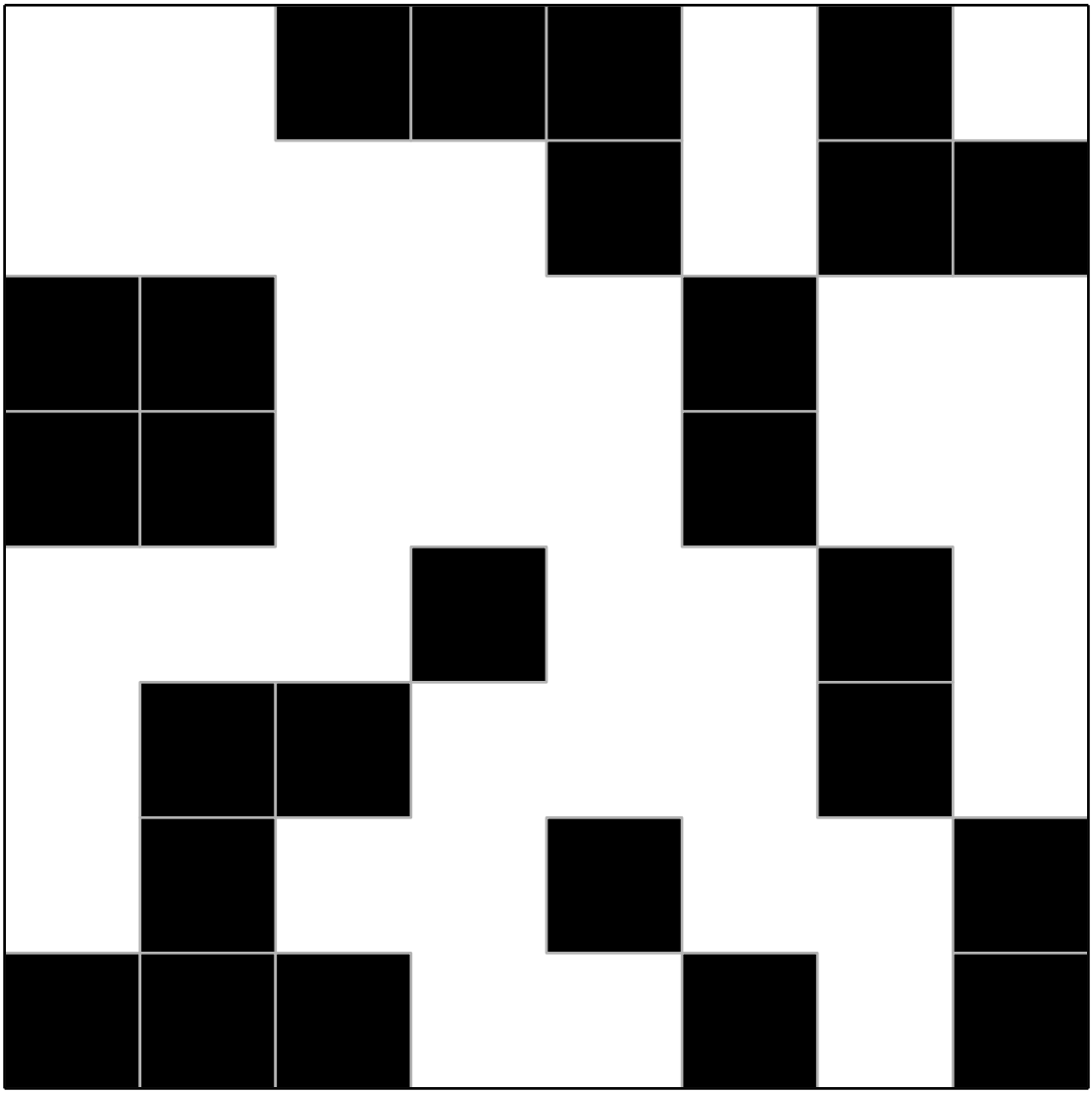

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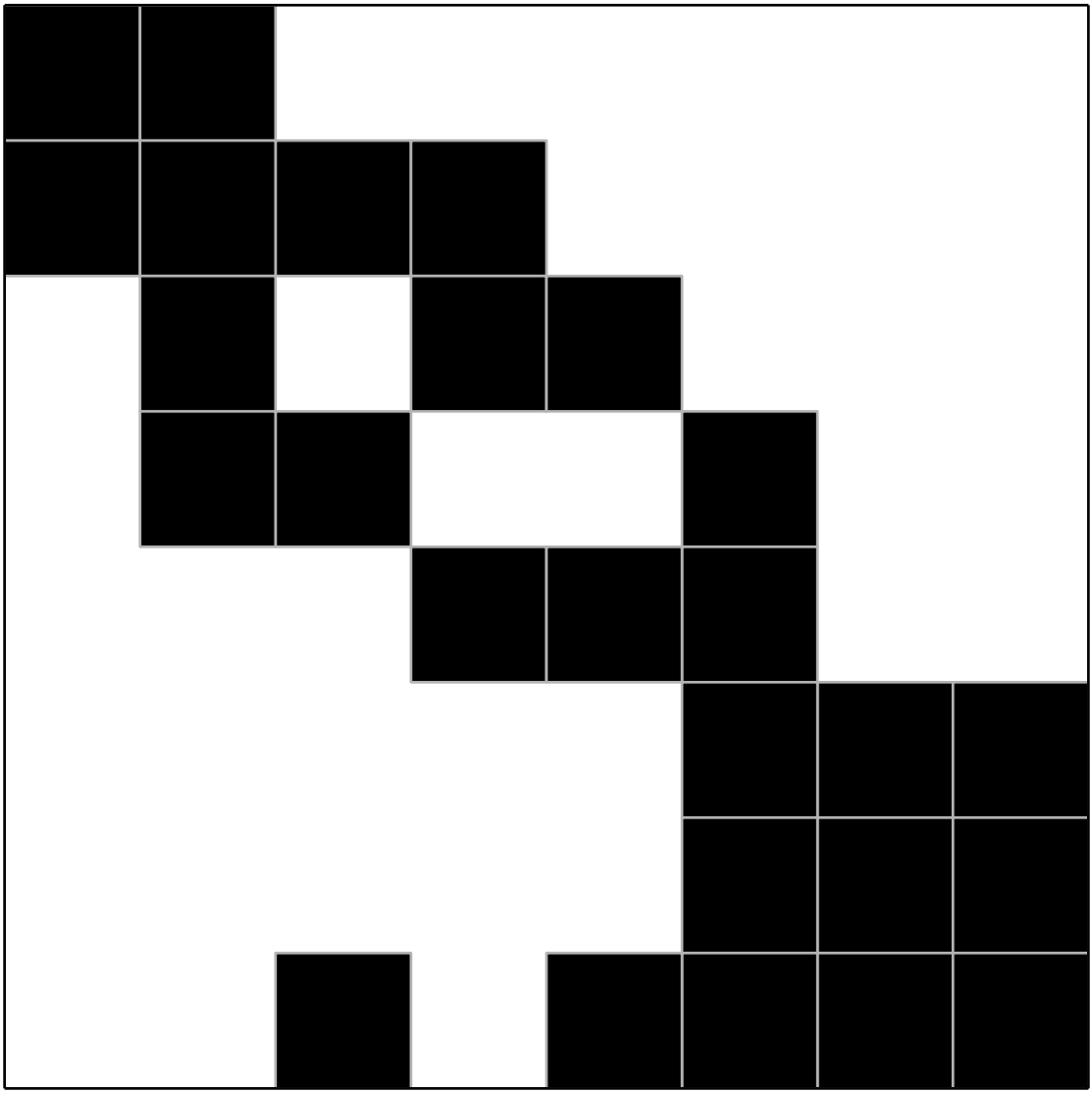
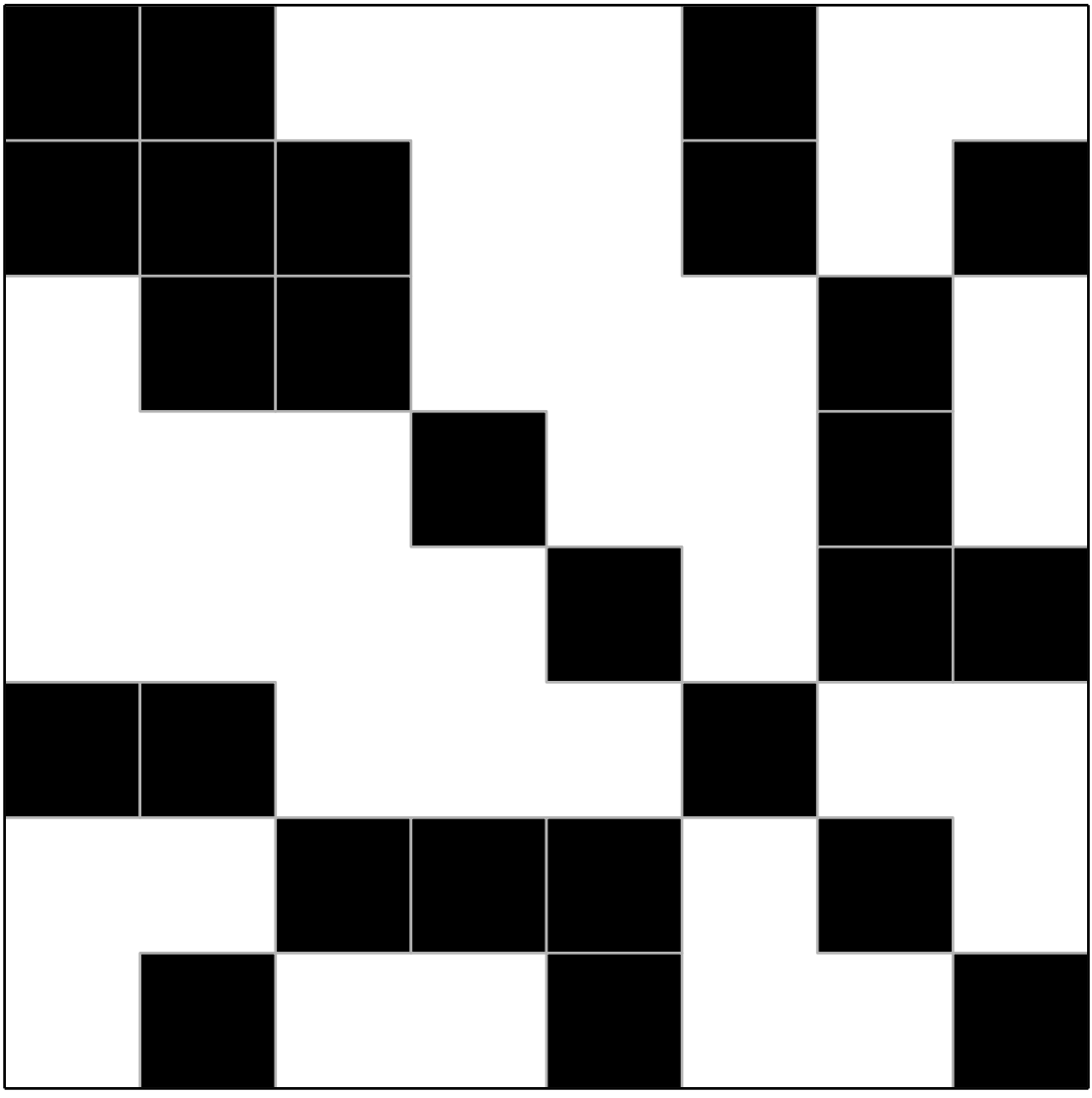
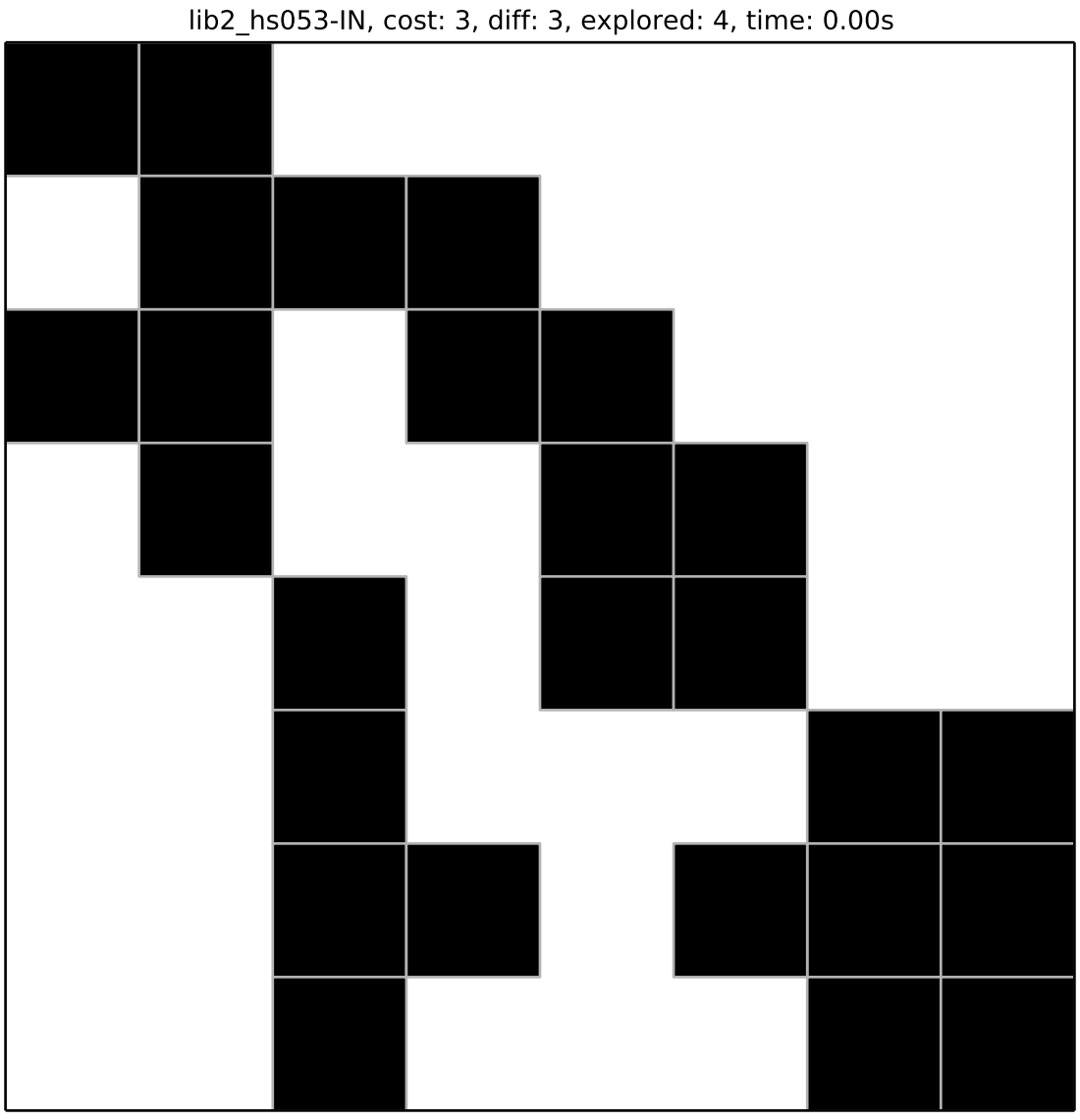


lib2_hs053-IN 8x8 (26) con: 3, var: 5

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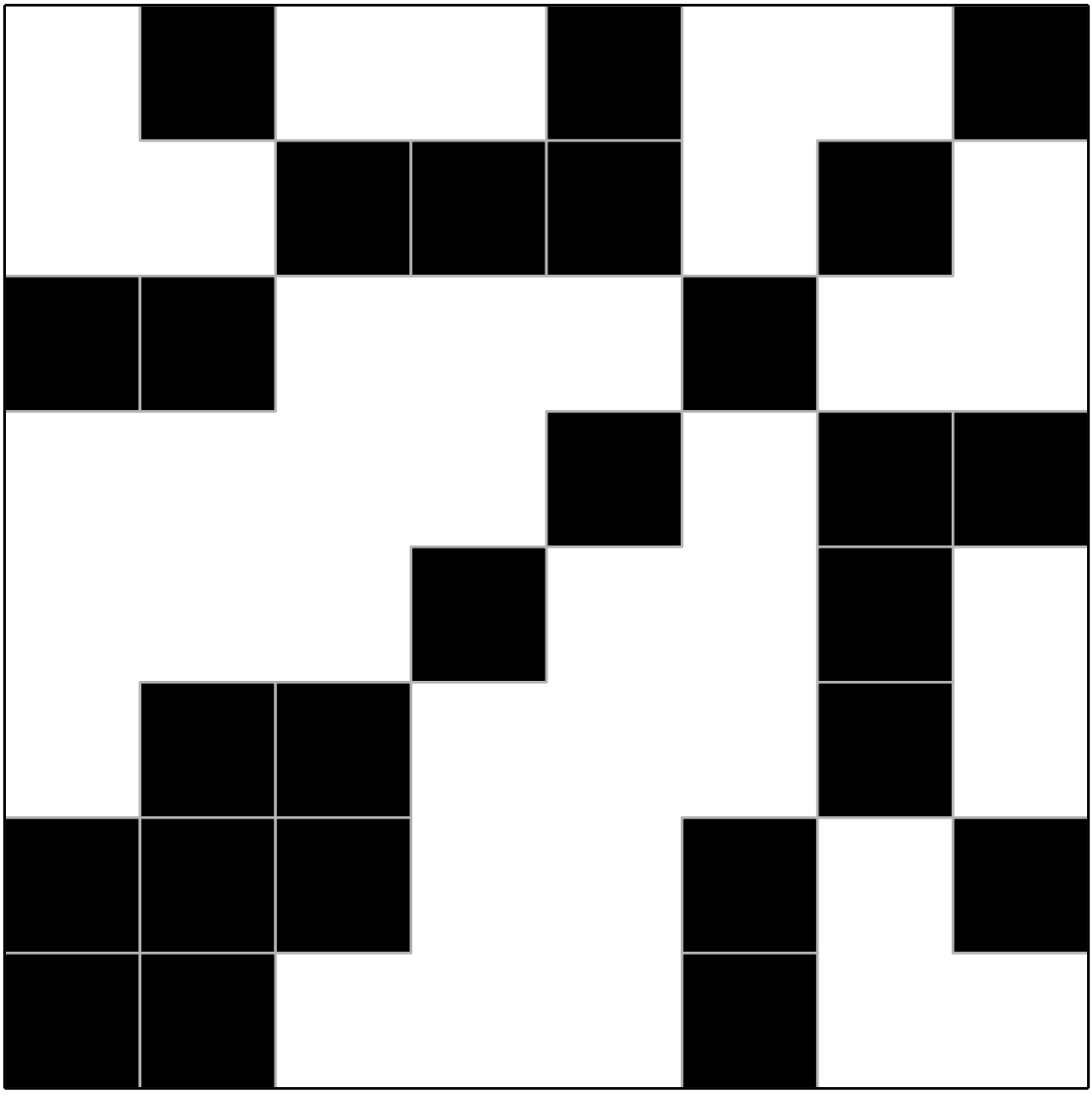
lib2_hs053-RE 8x8 (26) con: 3, var: 5



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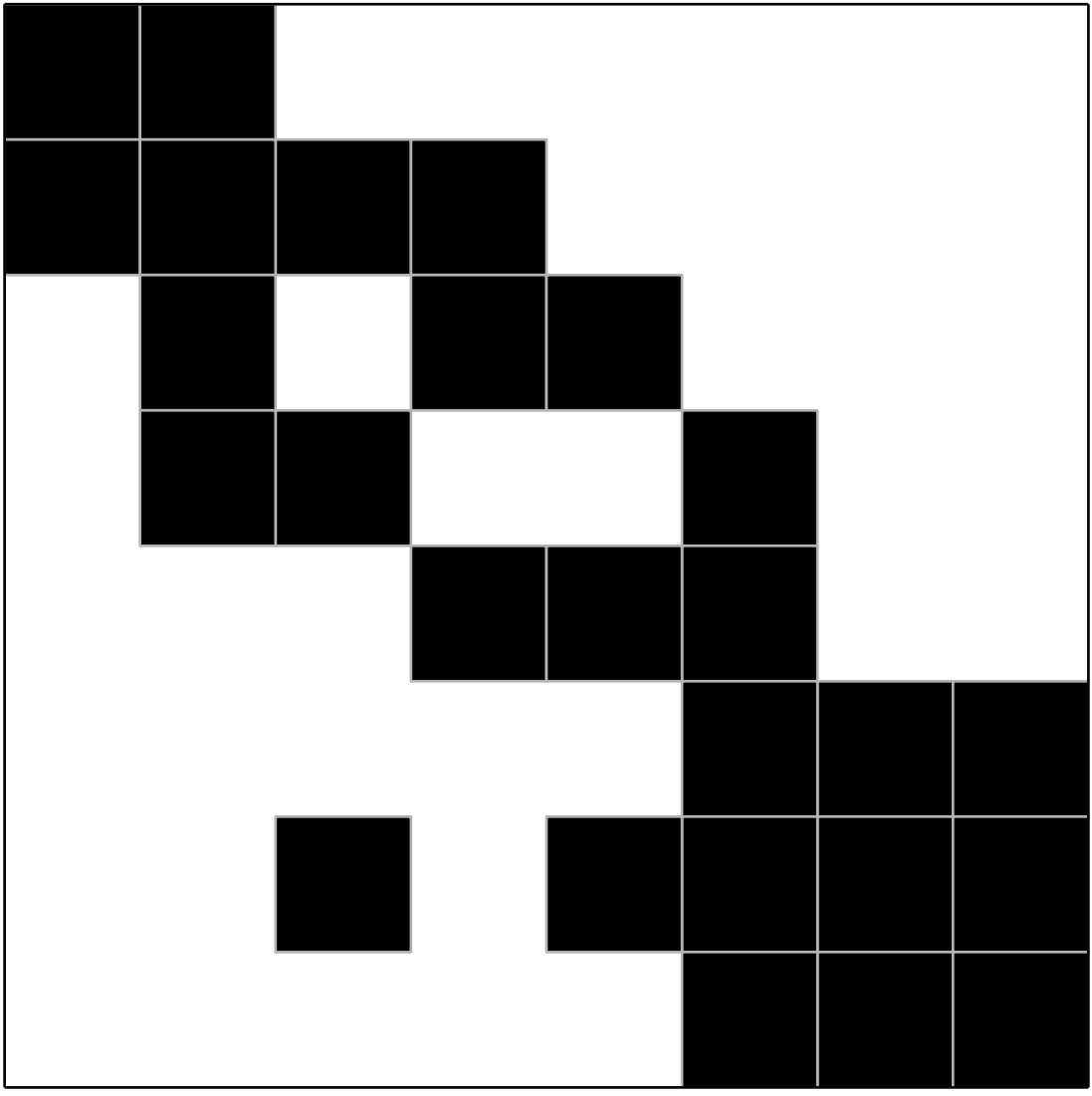
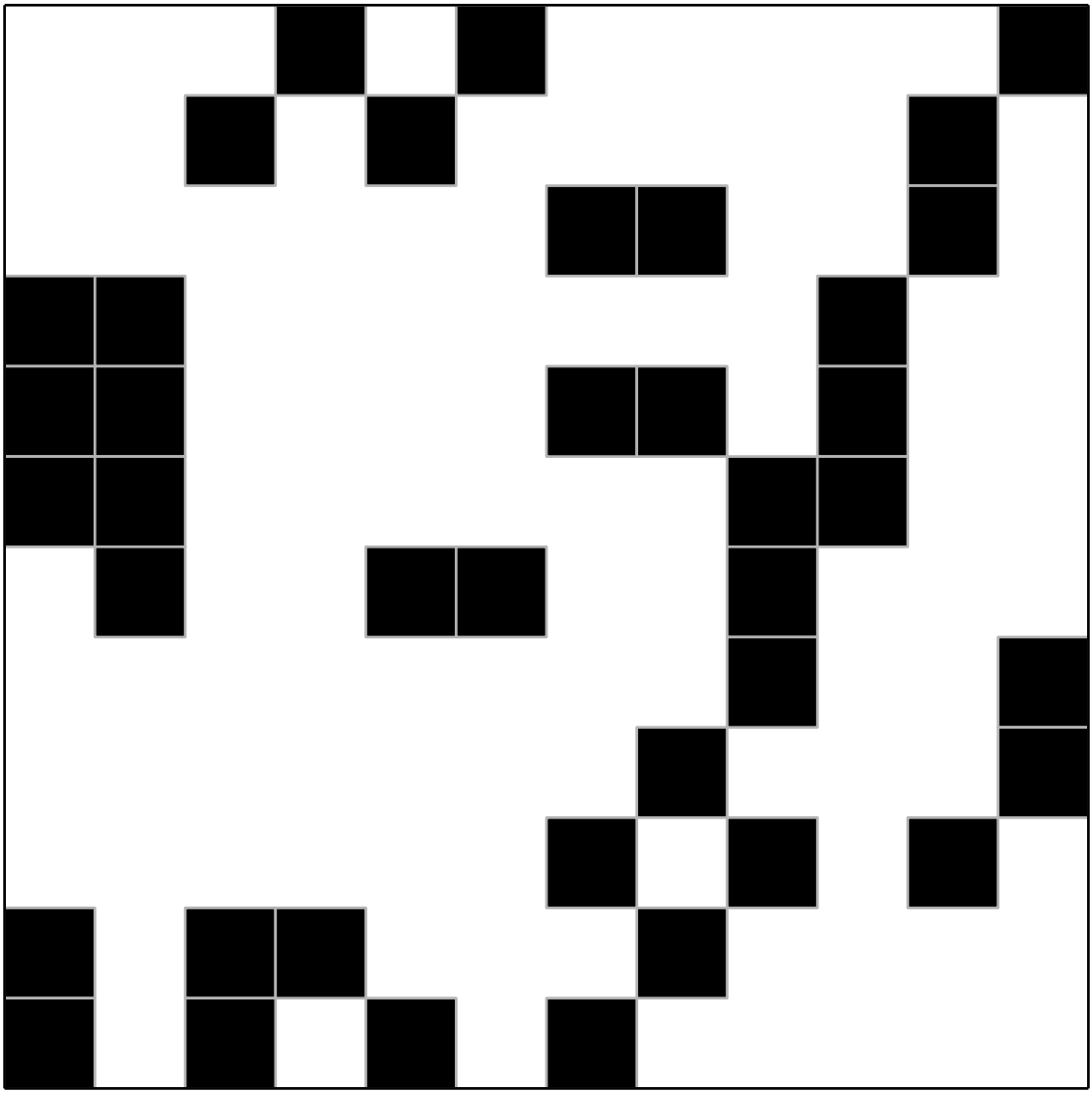
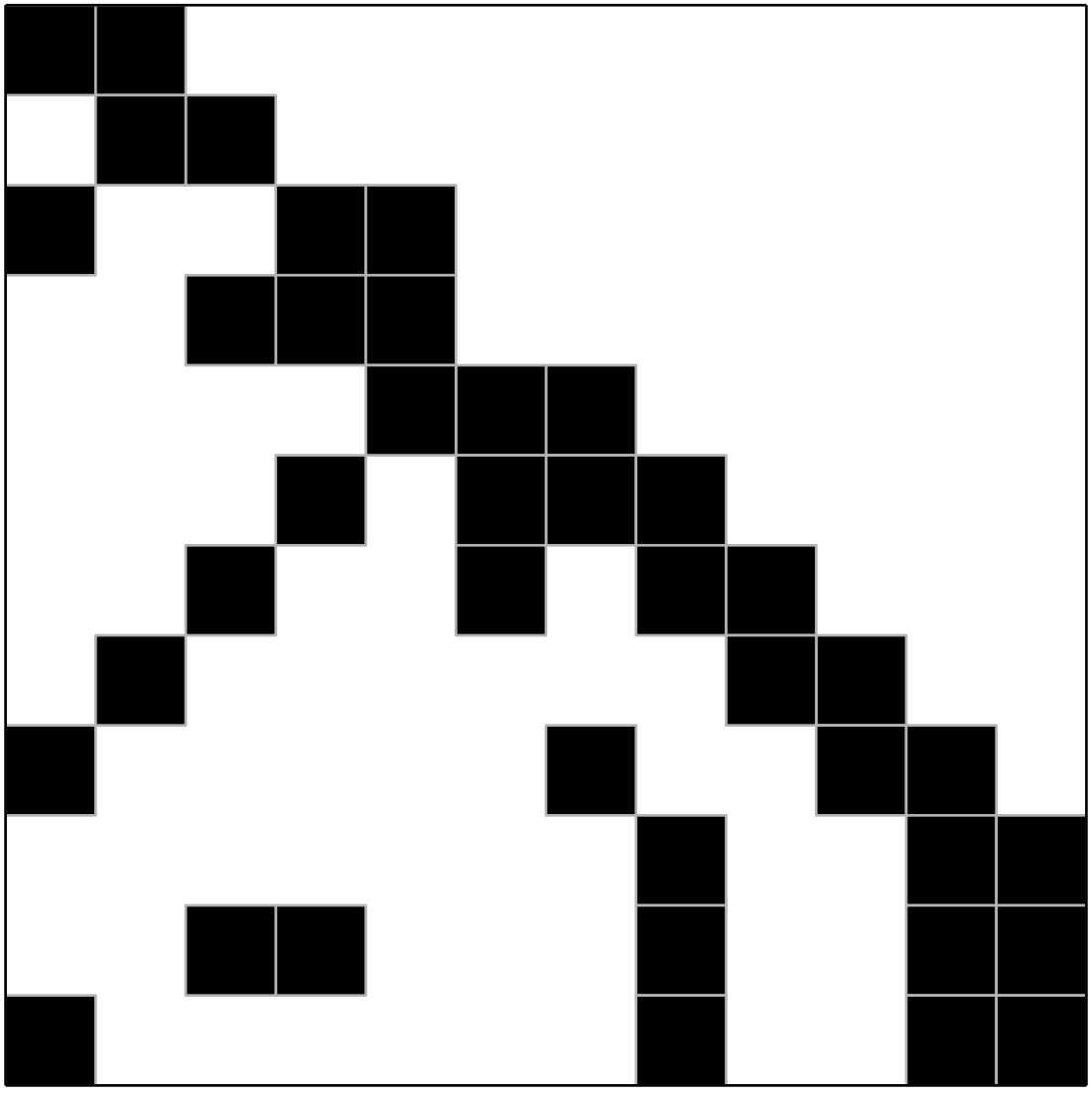


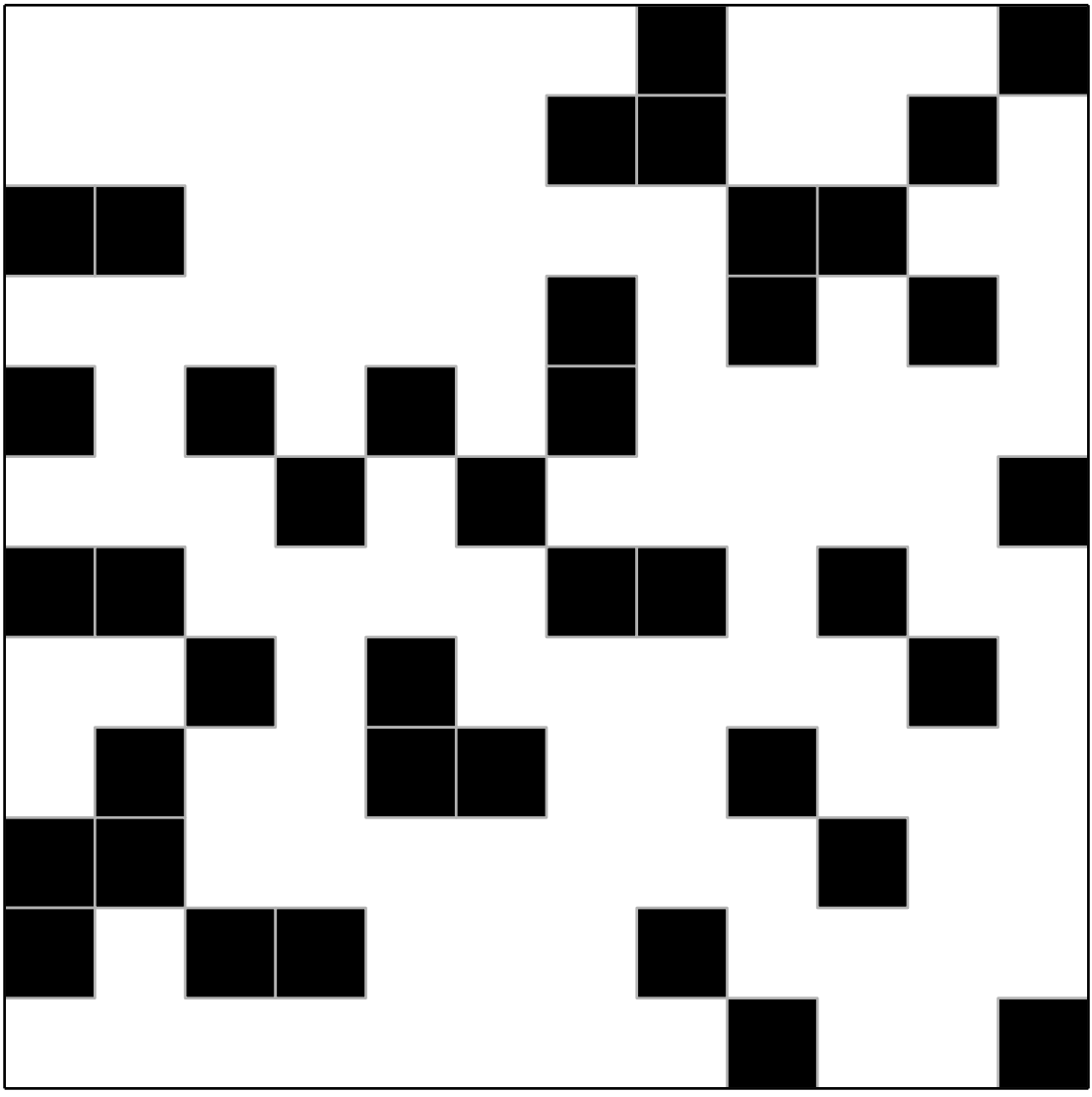
lib2_hs055-00 12x12 (40) con: 6, var: 6

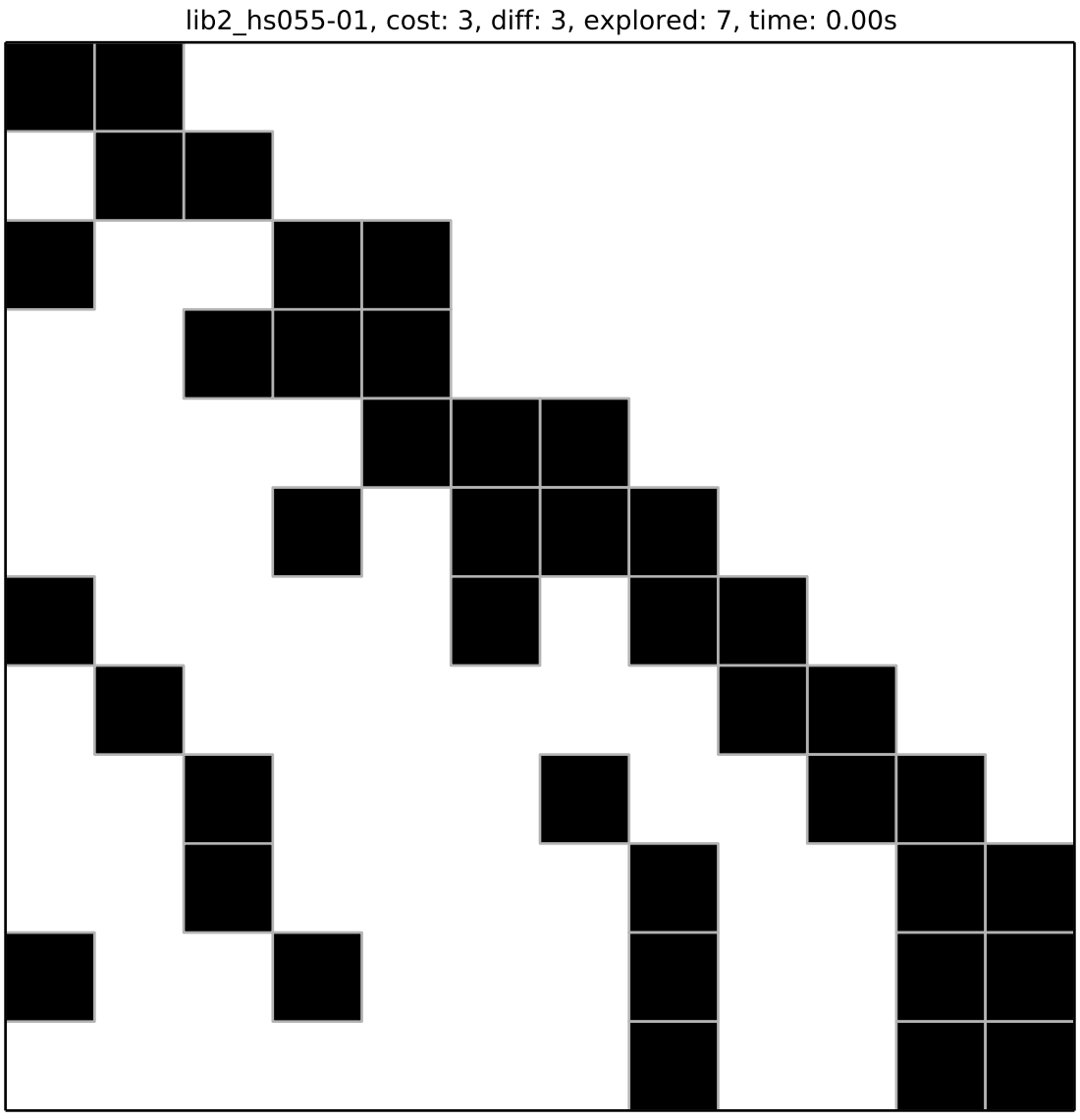


lib2_hs055-00, cost: 3, diff: 3, explored: 10, time: 0.00s

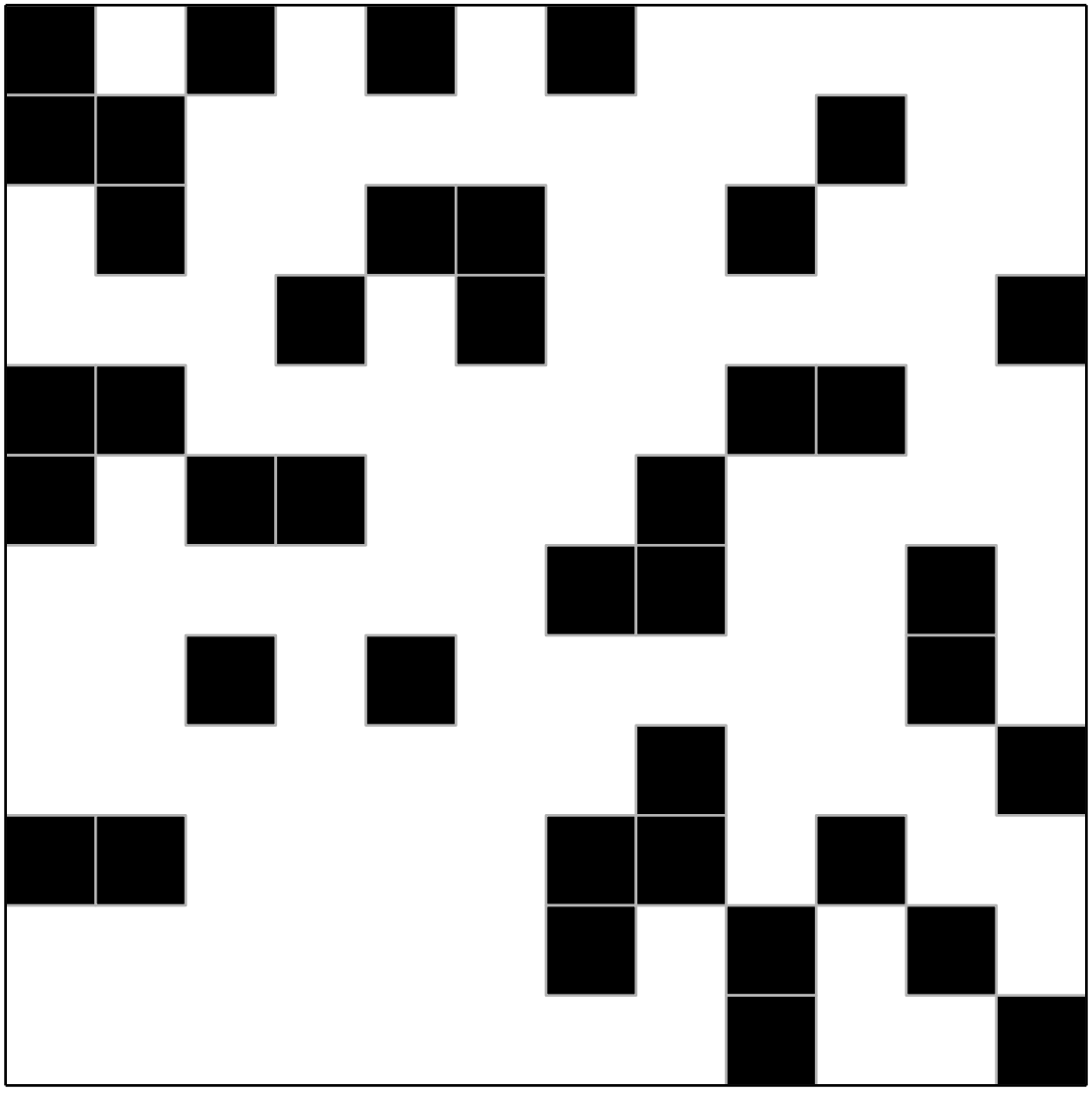


lib2_hs055-01 12x12 (40) con: 6, var: 6

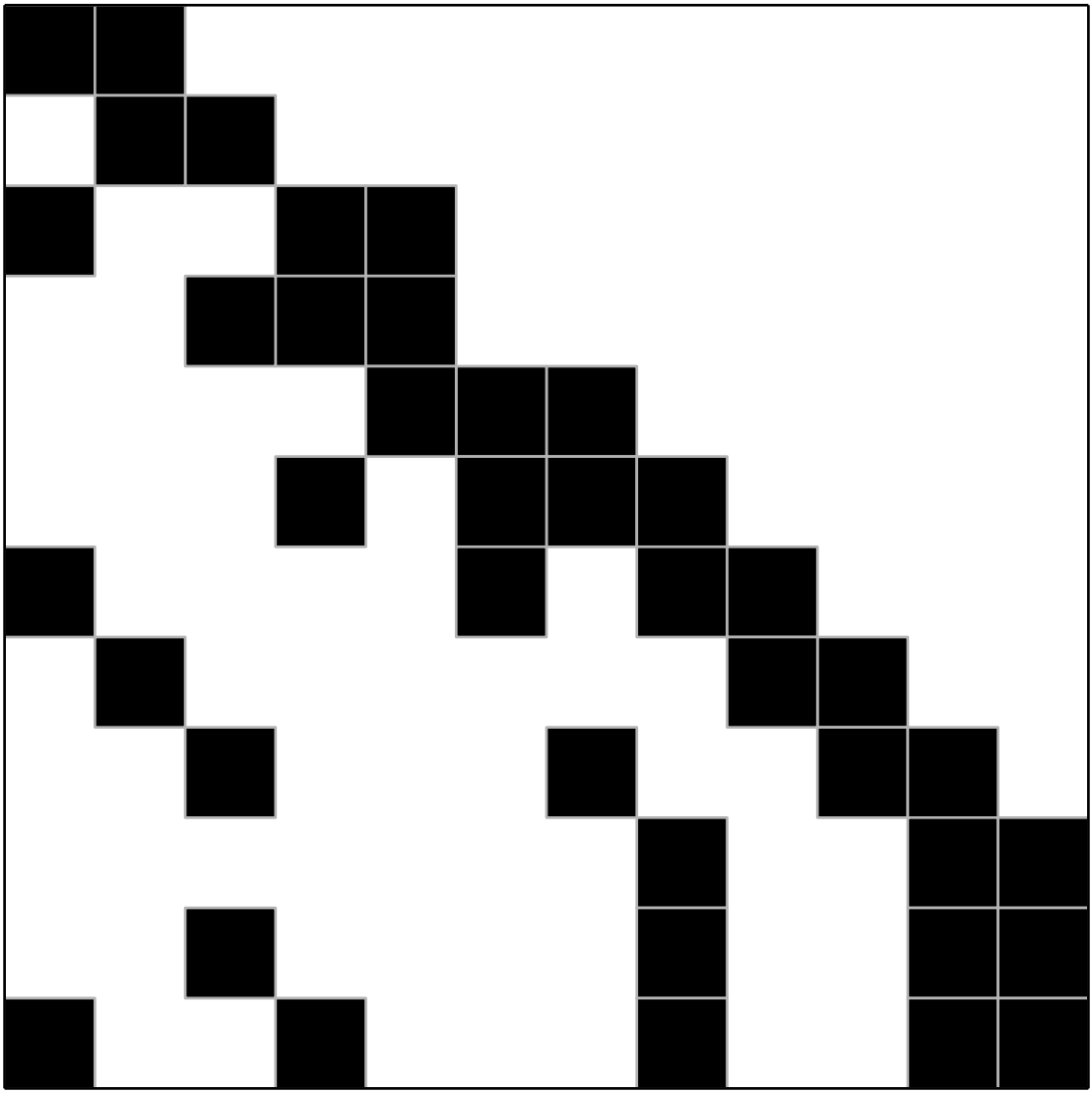



lib2_hs055-01, cost: 3, diff: 3, explored: 7, time: 0.00s

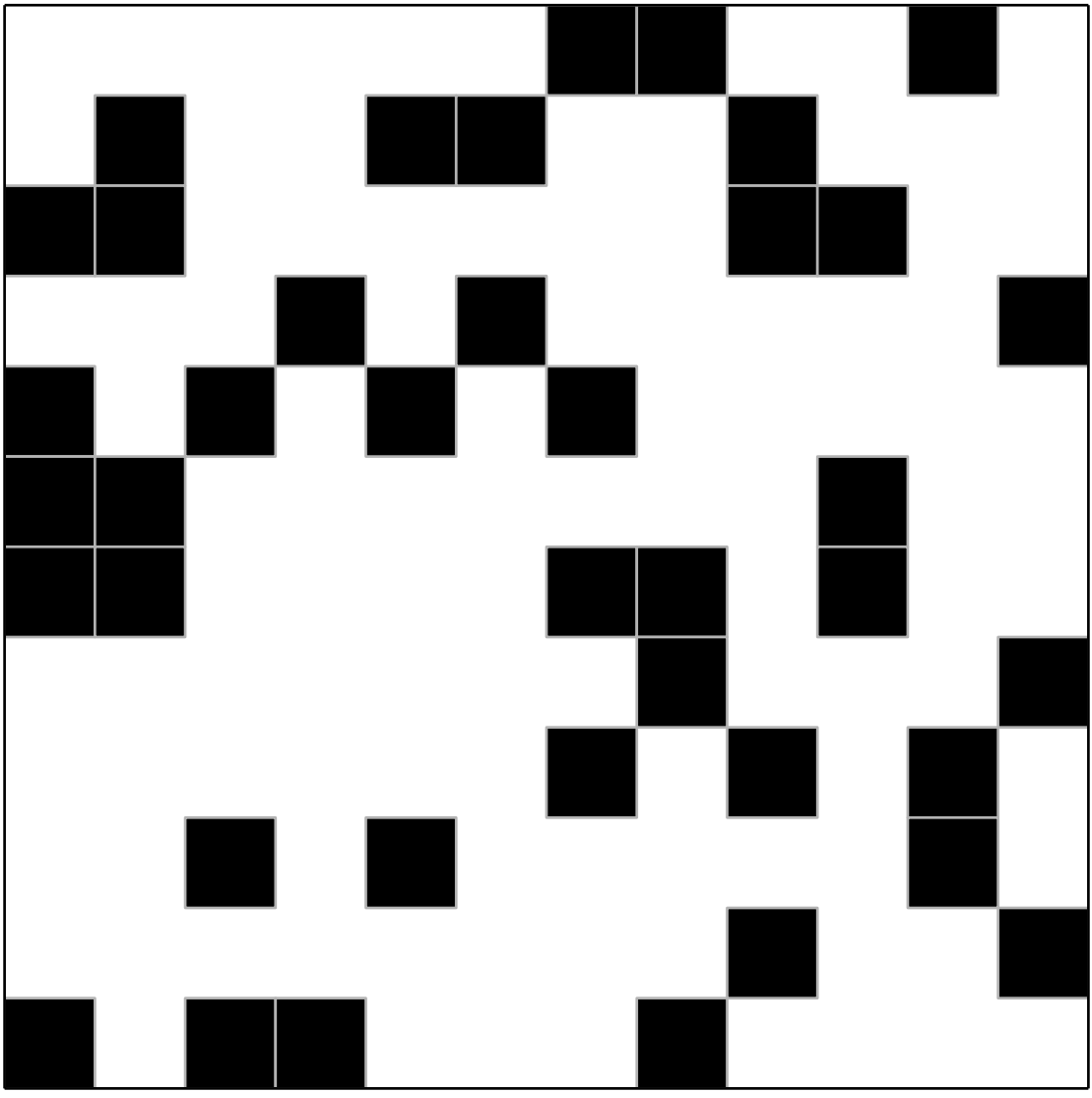
lib2_hs055-02 12x12 (40) con: 6, var: 6

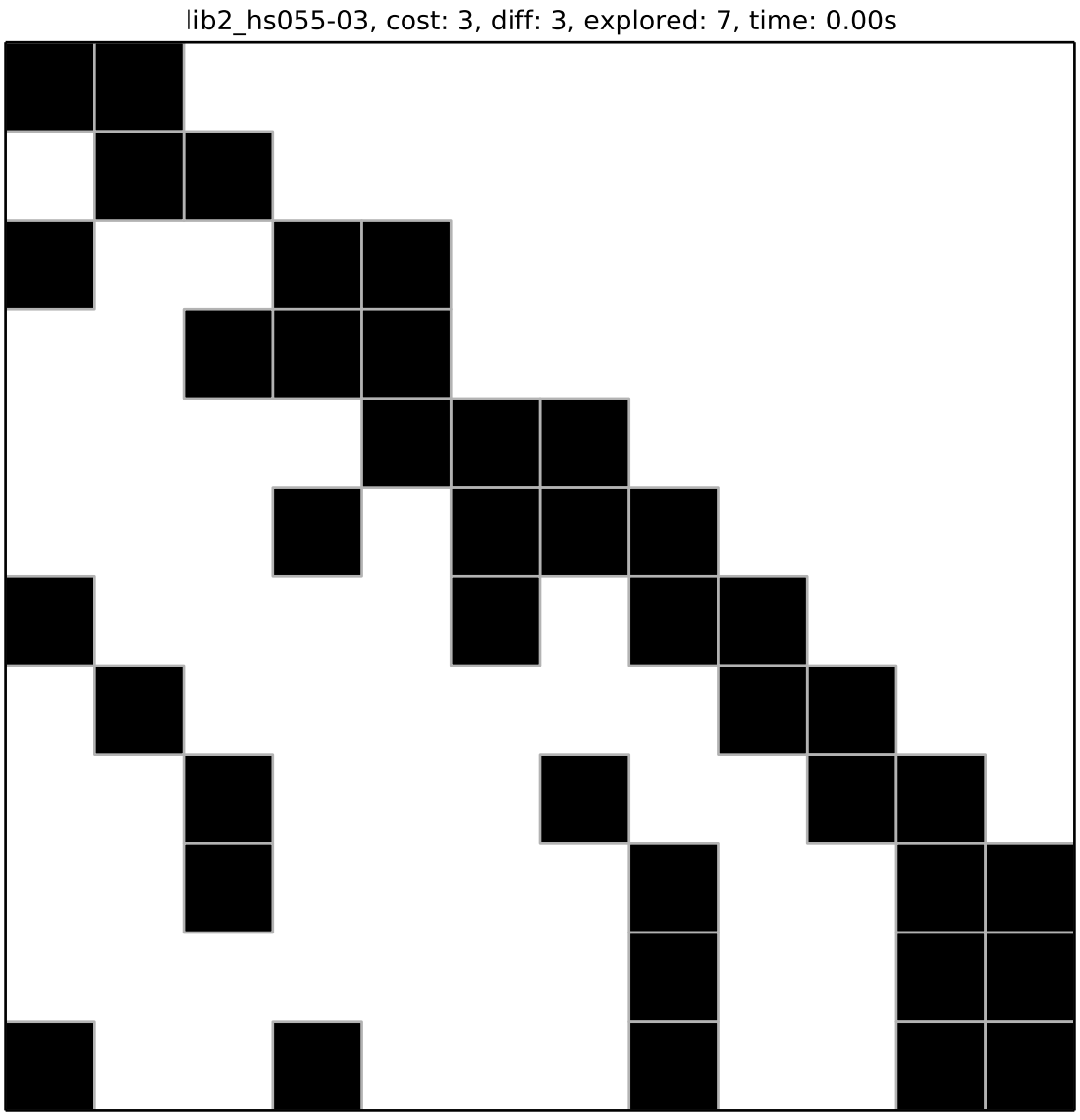


lib2_hs055-02, cost: 3, diff: 3, explored: 10, time: 0.00s



lib2_hs055-03 12x12 (40) con: 6, var: 6

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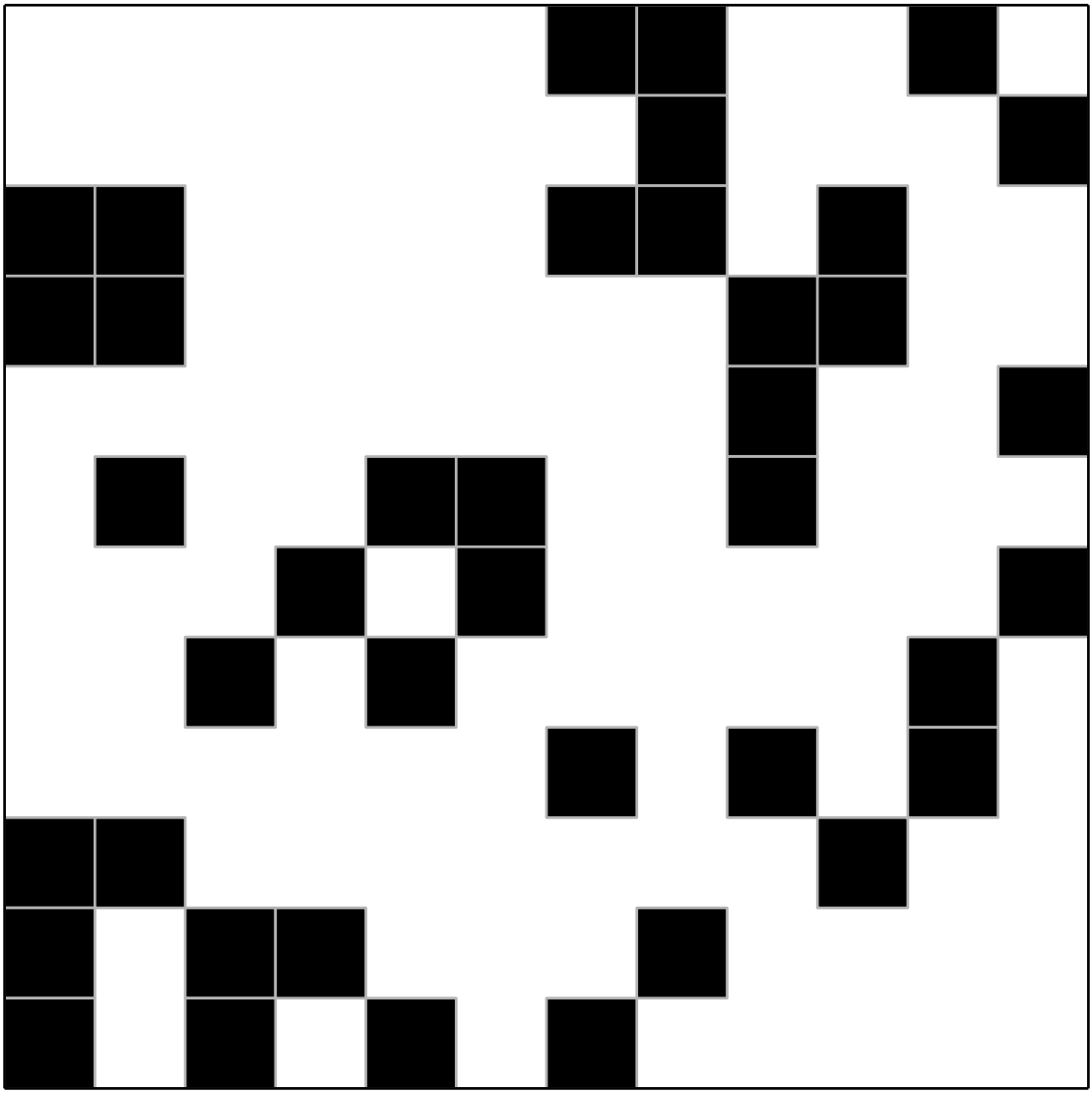
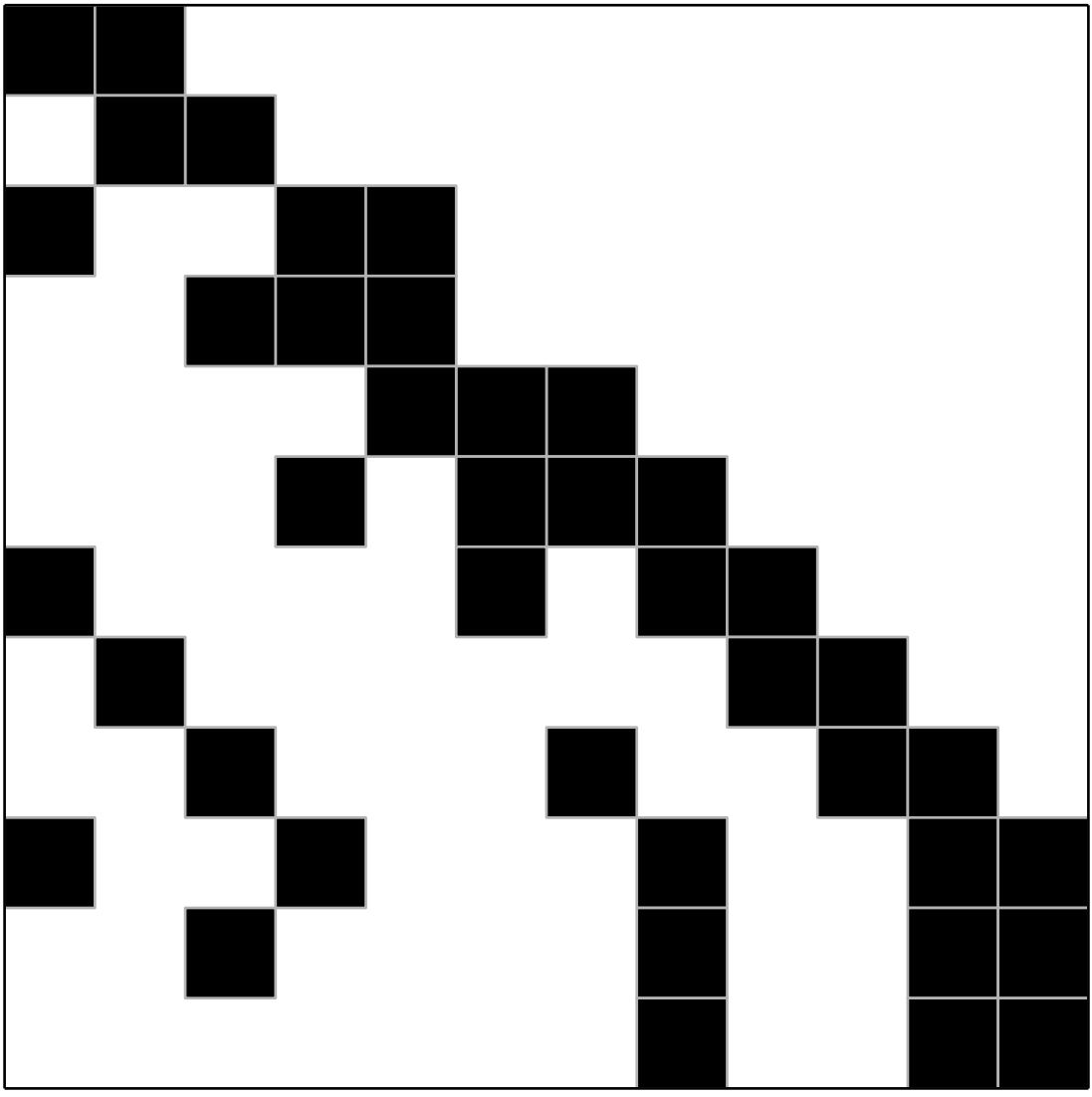
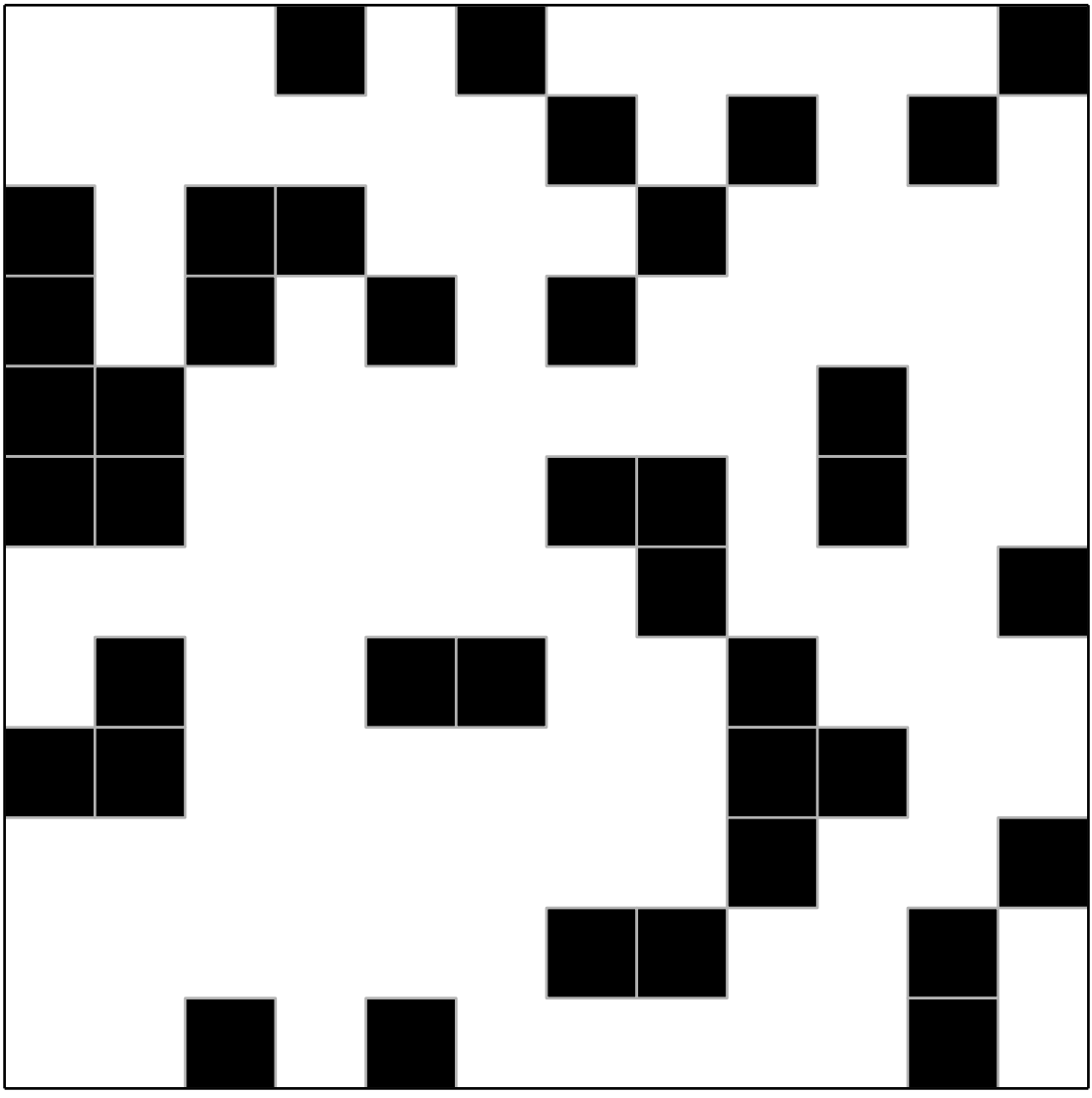
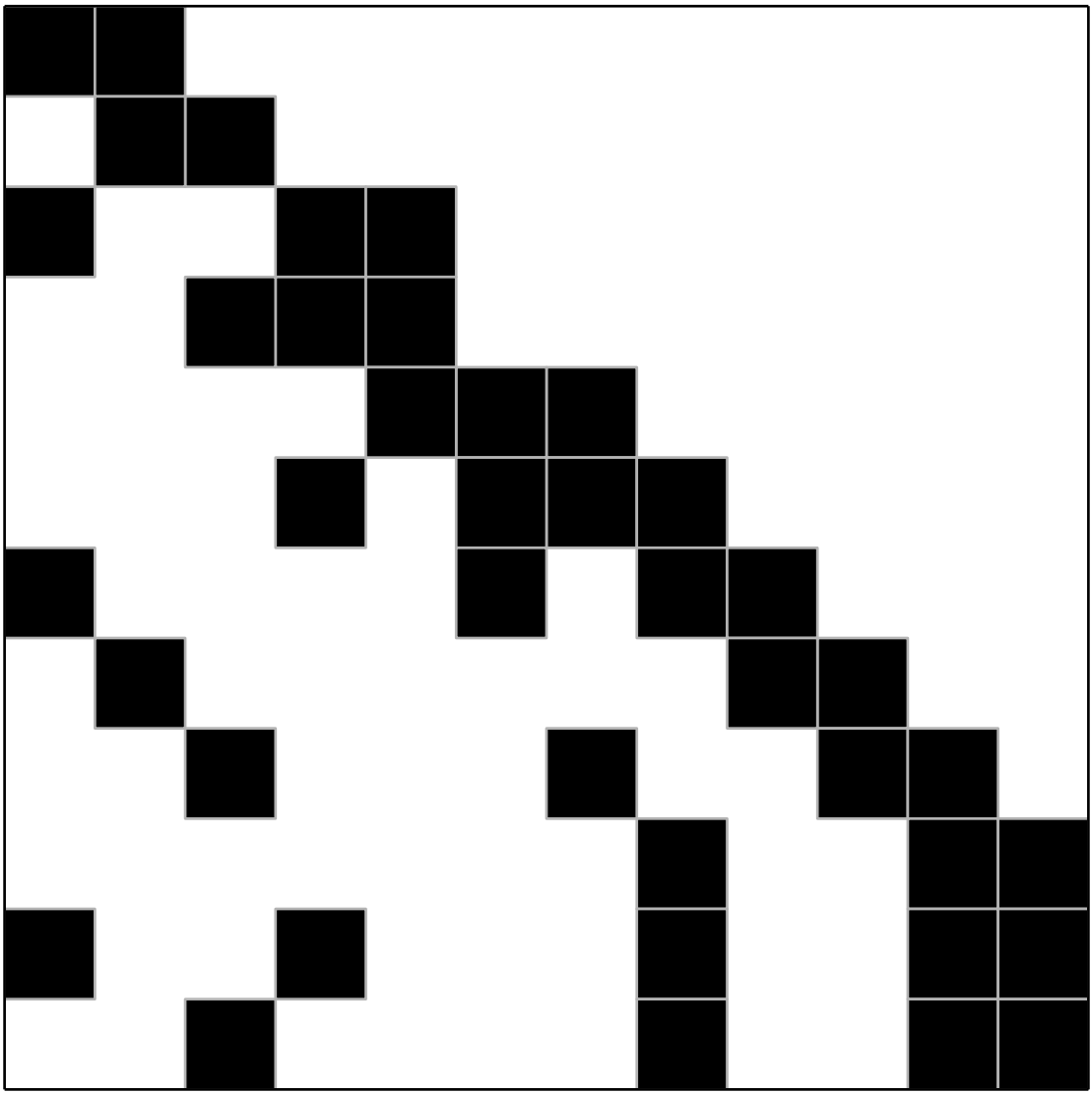
lib2_hs055-04 12x12 (40) con: 6, var: 6



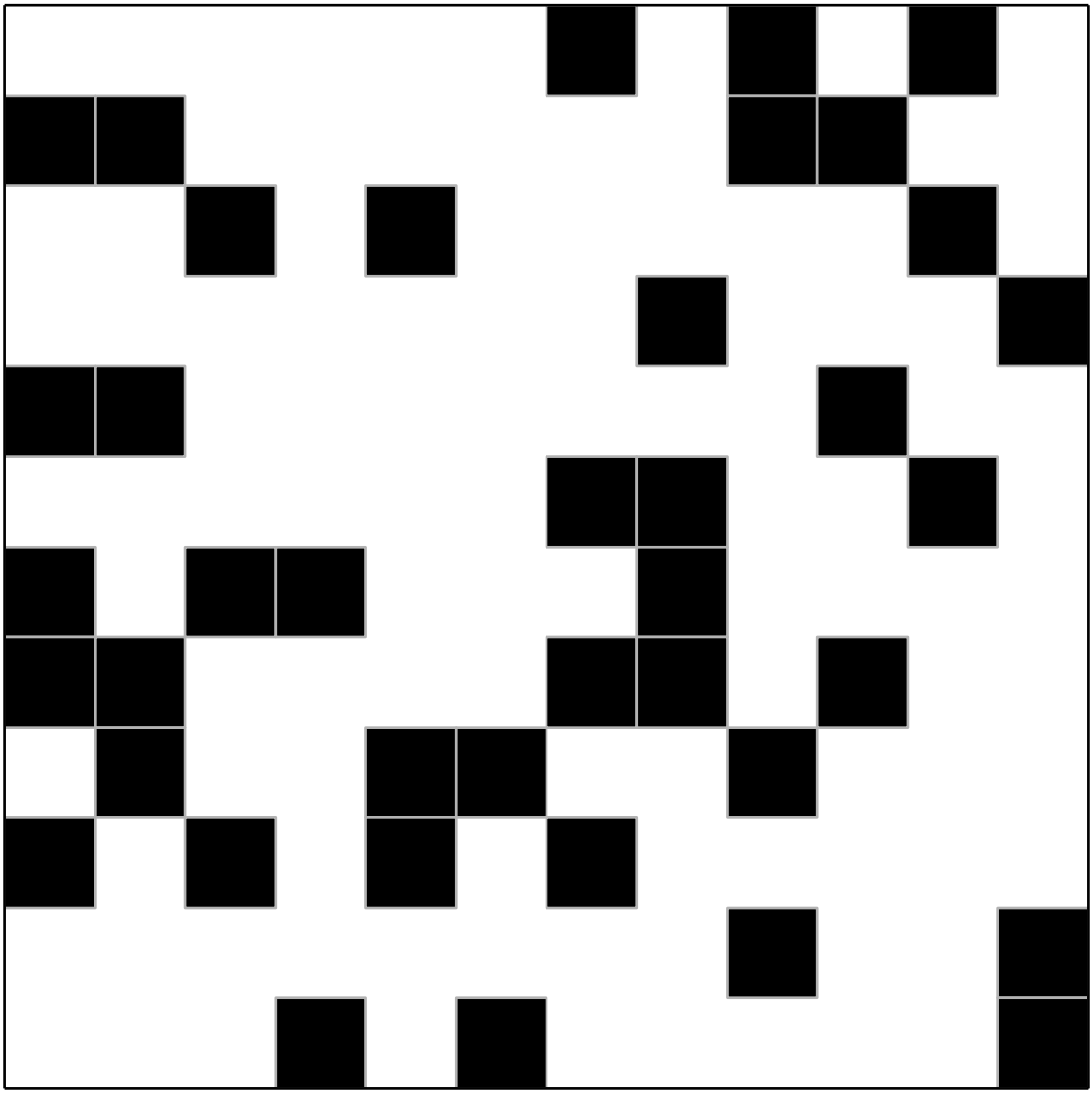

lib2_hs055-04, cost: 3, diff: 3, explored: 7, time: 0.00s

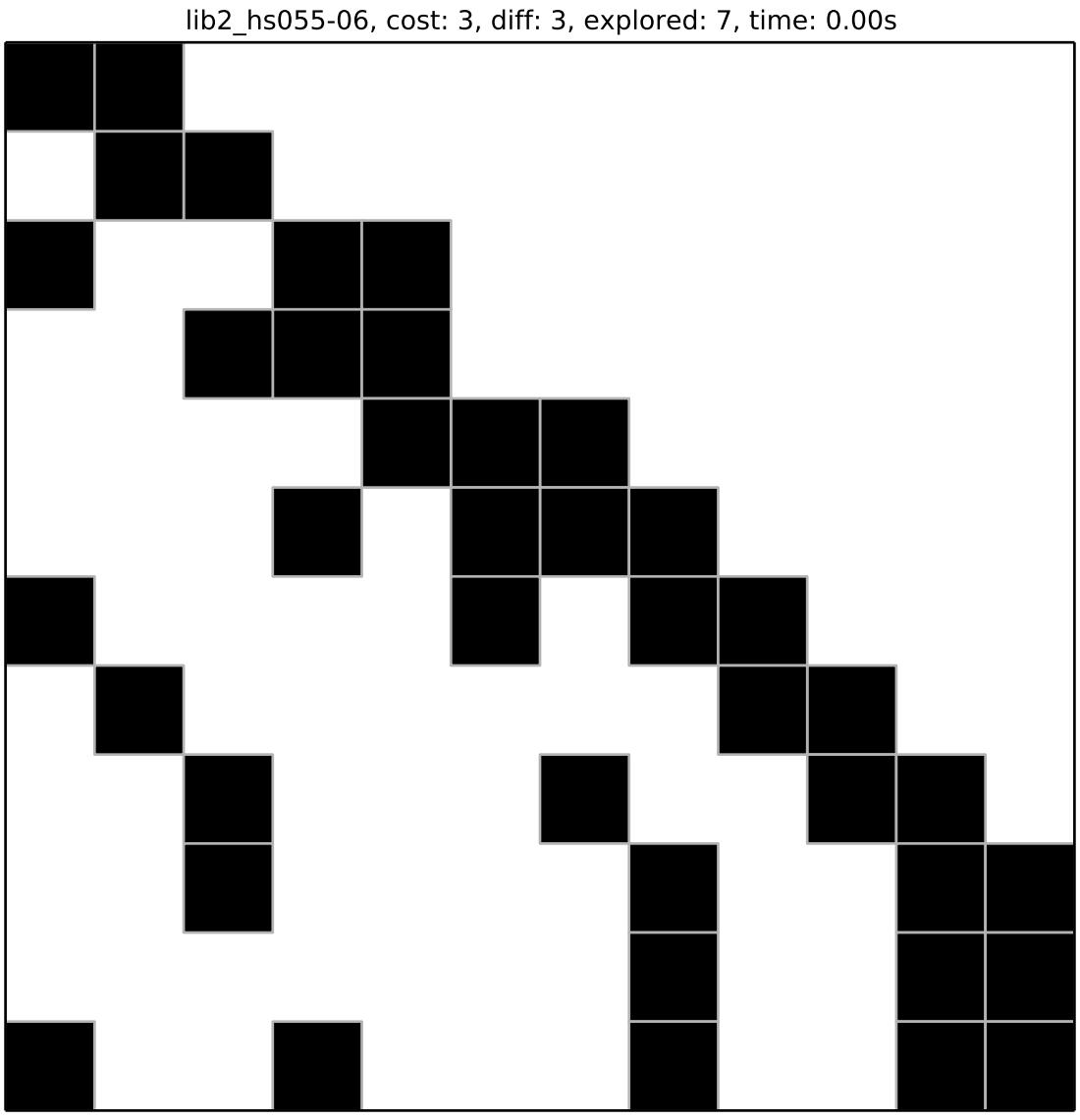
lib2_hs055-05 12x12 (40) con: 6, var: 6



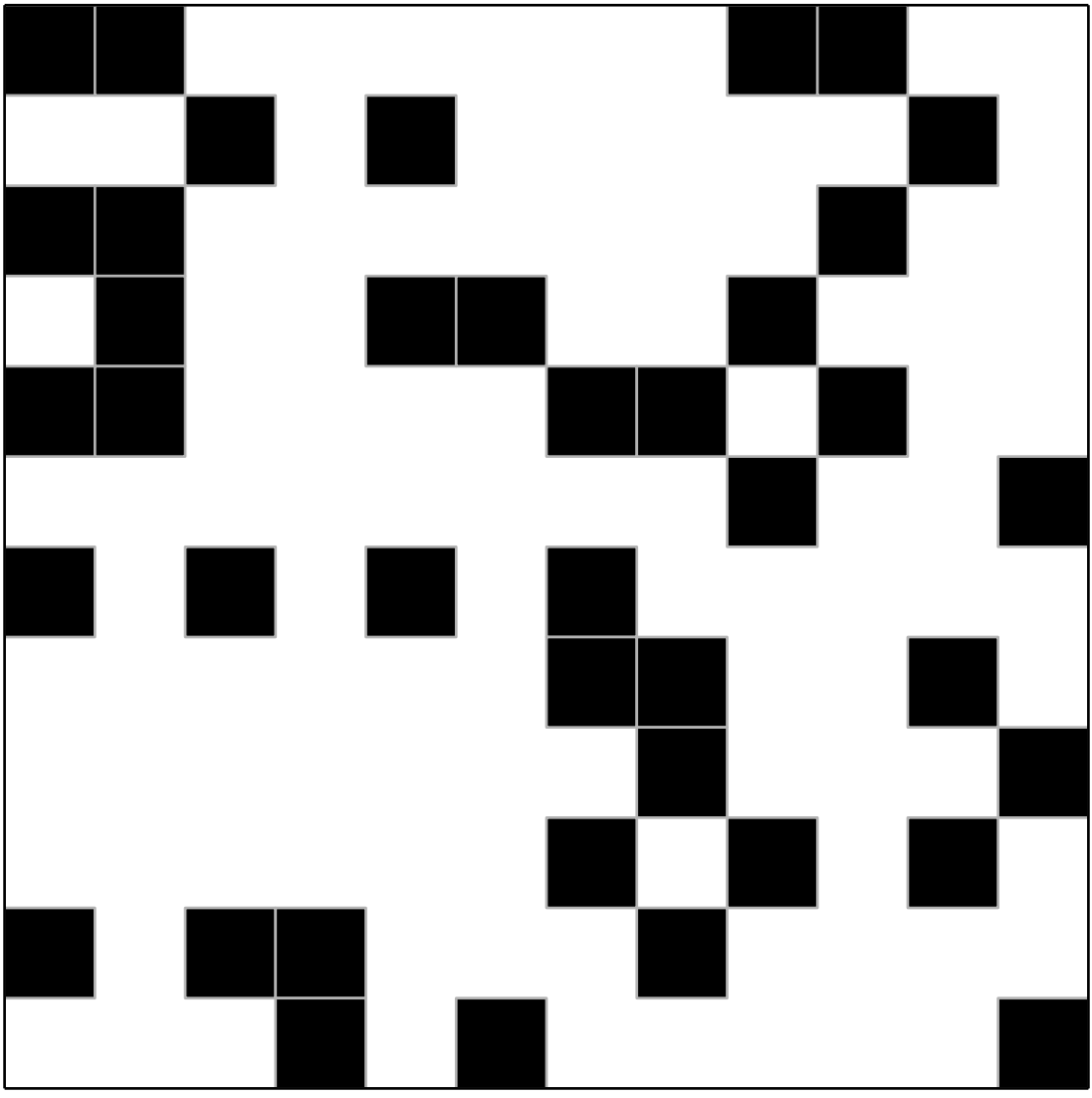

lib2_hs055-05, cost: 3, diff: 3, explored: 10, time: 0.00s

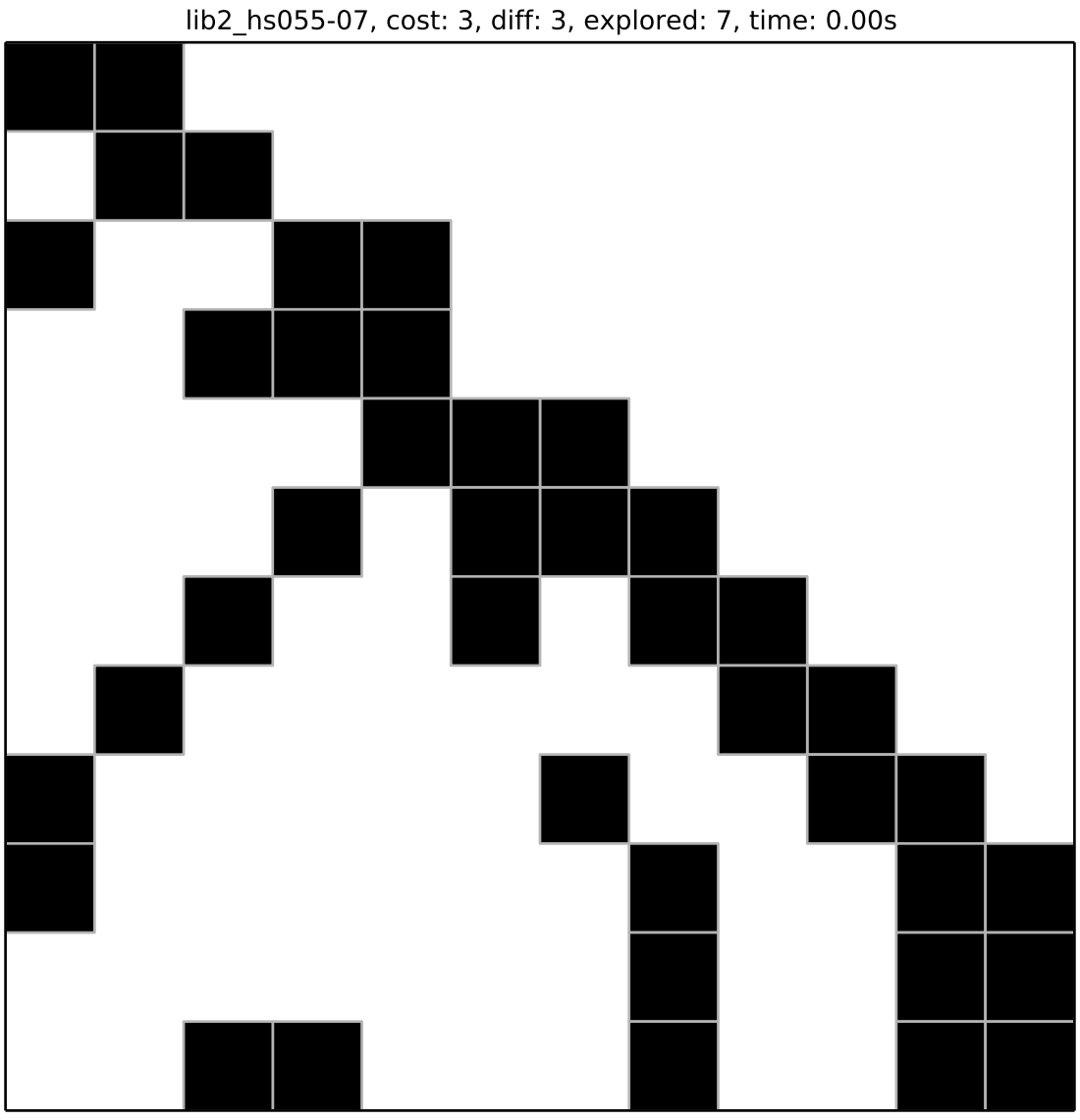
lib2_hs055-06 12x12 (40) con: 6, var: 6



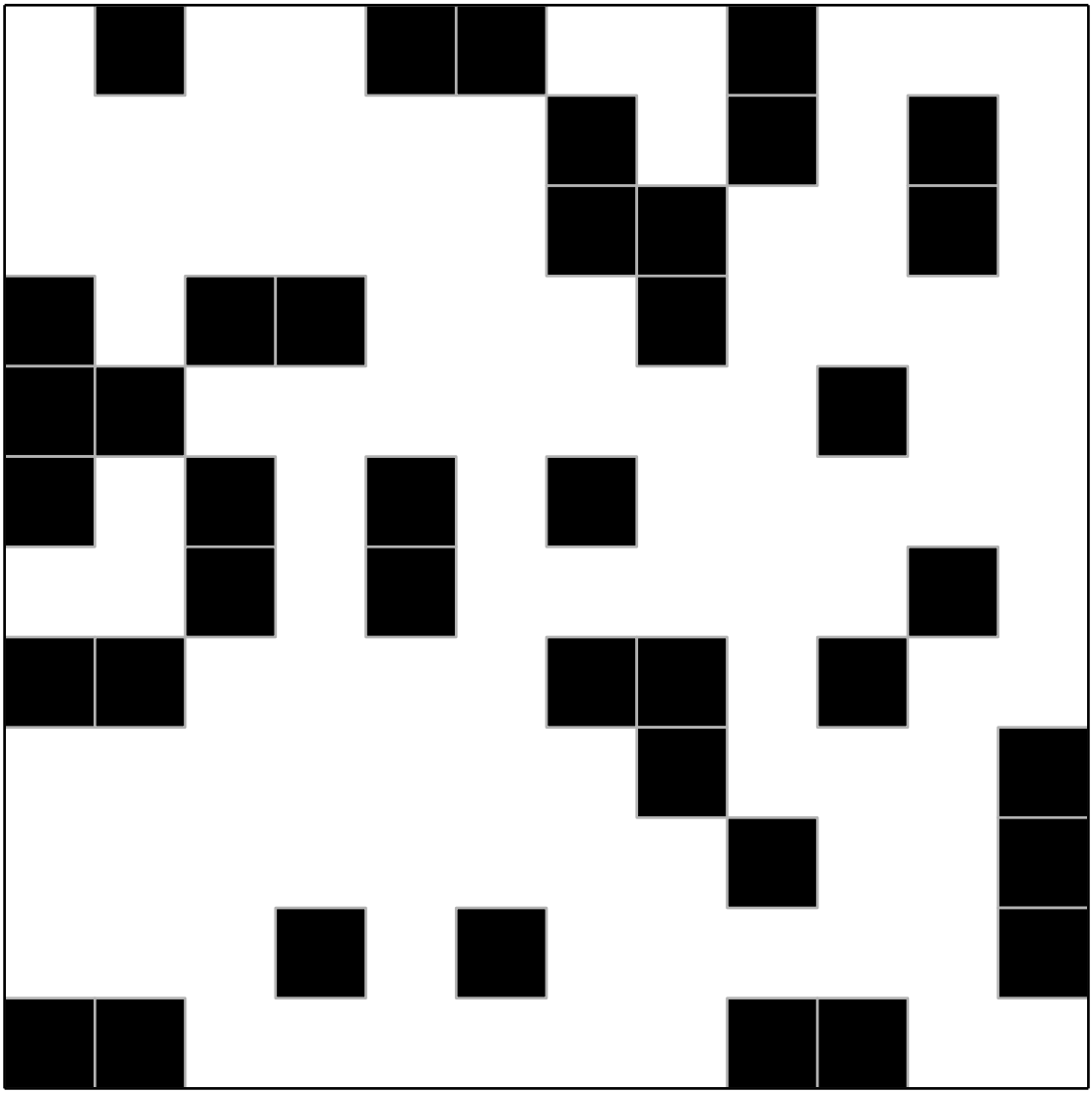

lib2_hs055-06, cost: 3, diff: 3, explored: 7, time: 0.00s

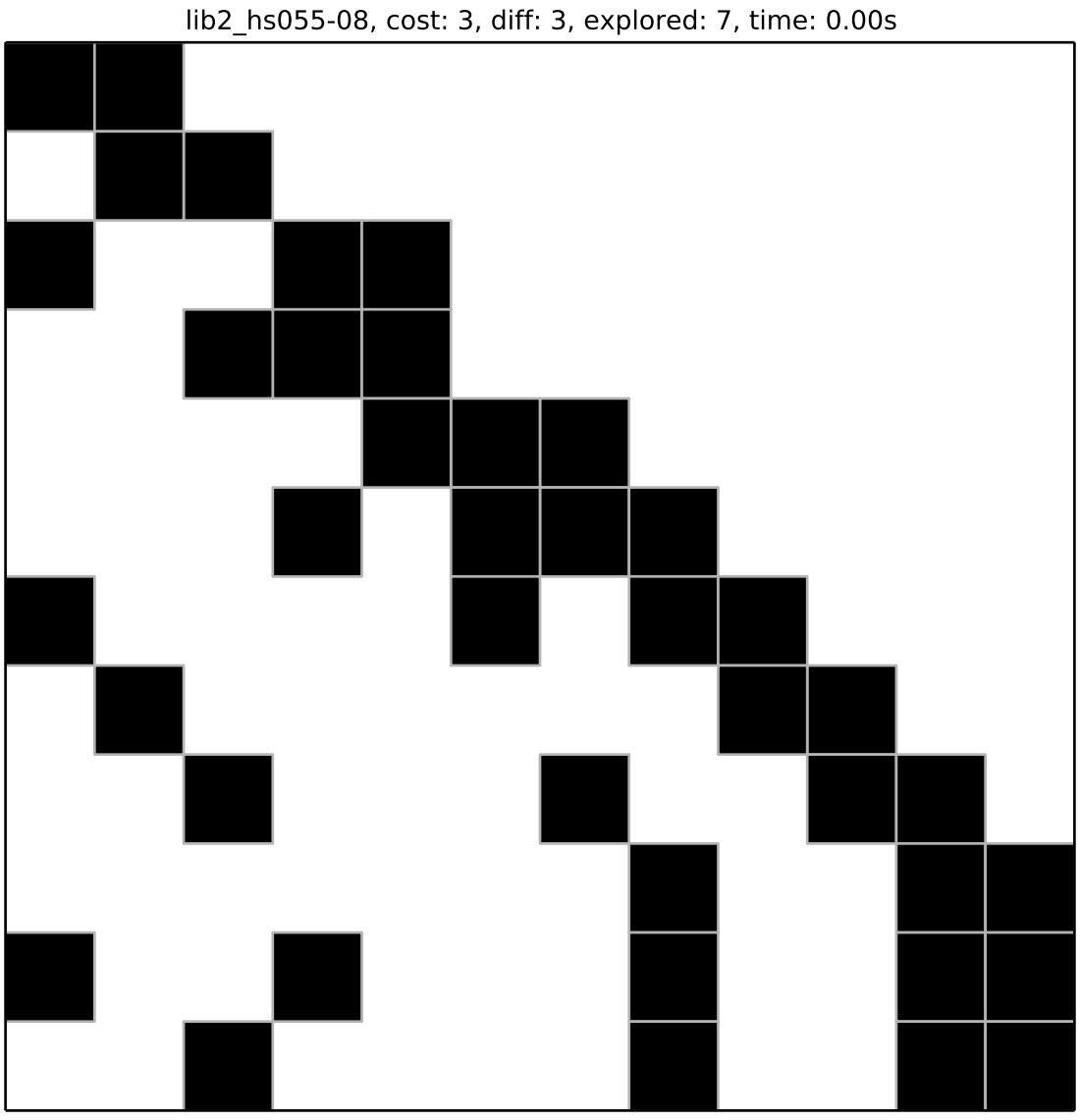
lib2_hs055-07 12x12 (40) con: 6, var: 6



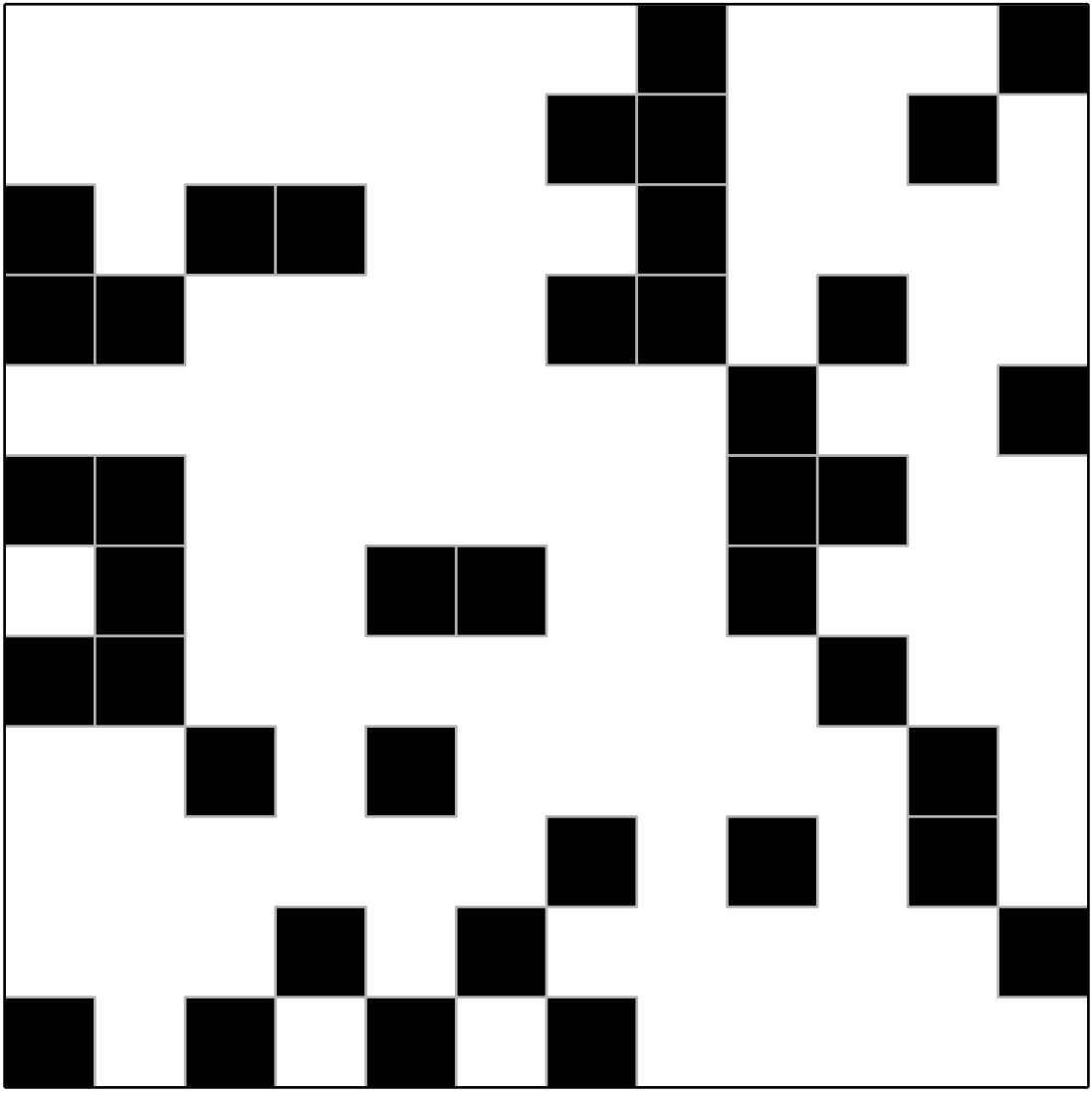

lib2_hs055-07, cost: 3, diff: 3, explored: 7, time: 0.00s

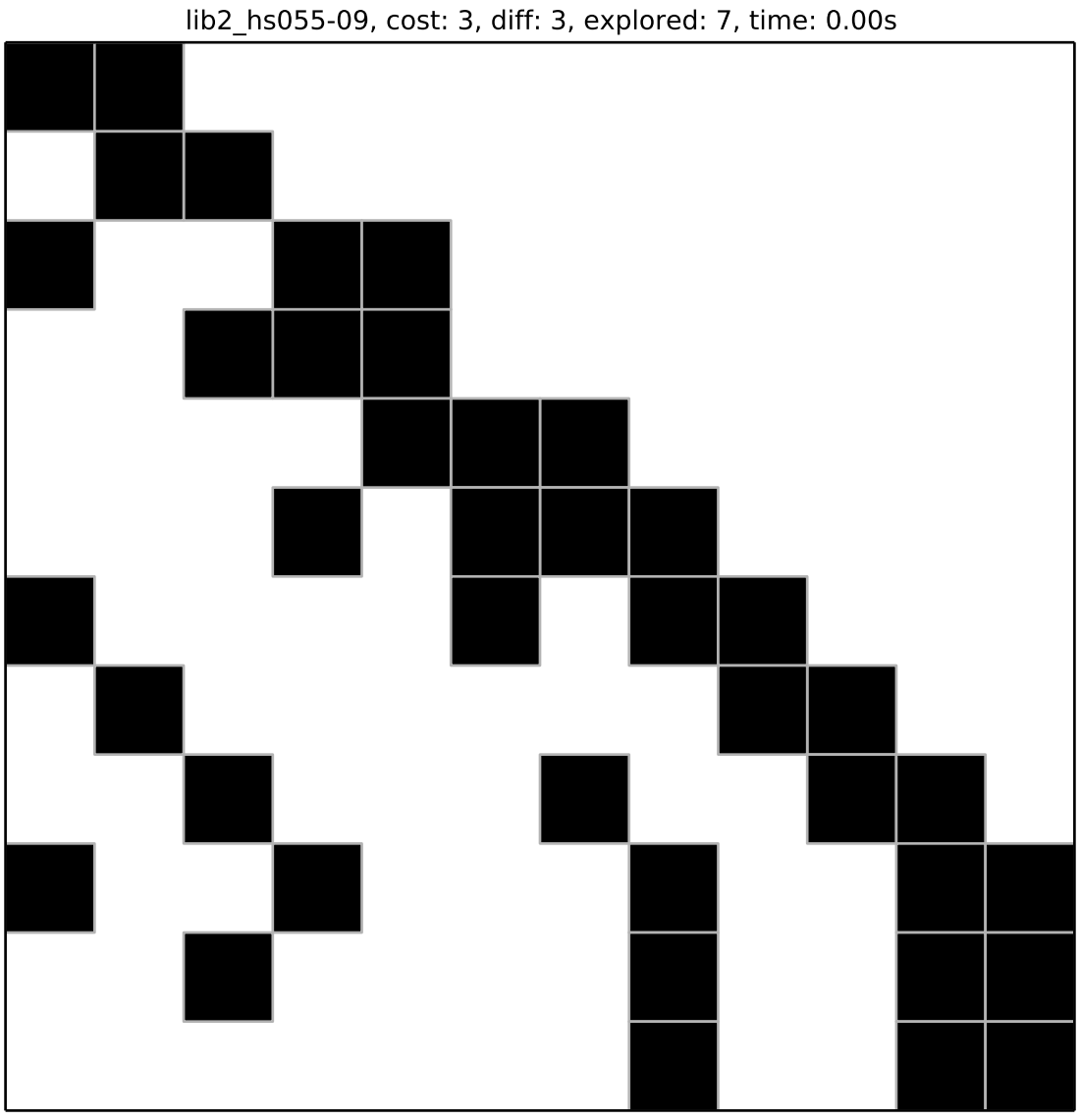
lib2_hs055-08 12x12 (40) con: 6, var: 6




lib2_hs055-08, cost: 3, diff: 3, explored: 7, time: 0.00s

lib2_hs055-09 12x12 (40) con: 6, var: 6

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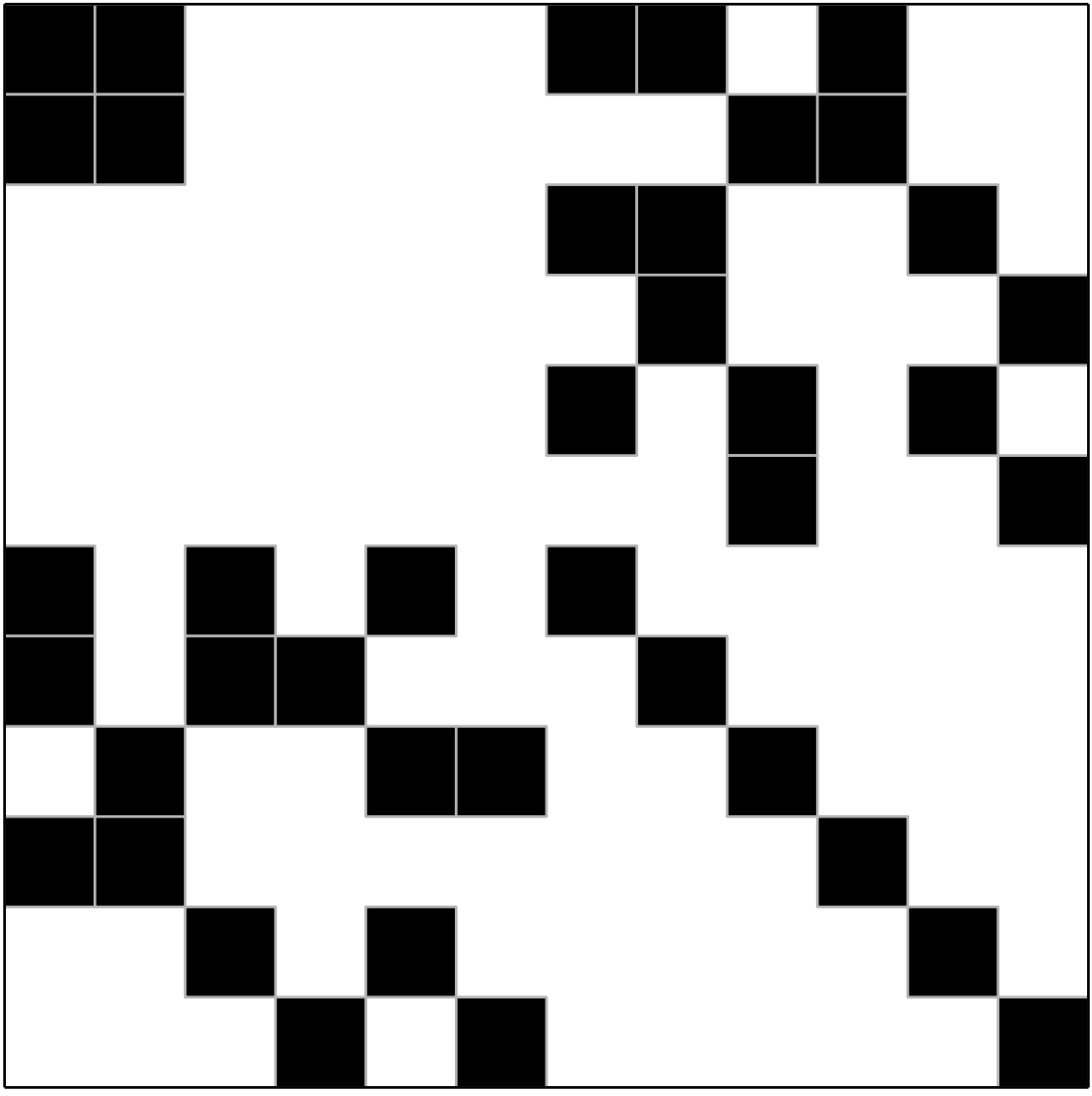
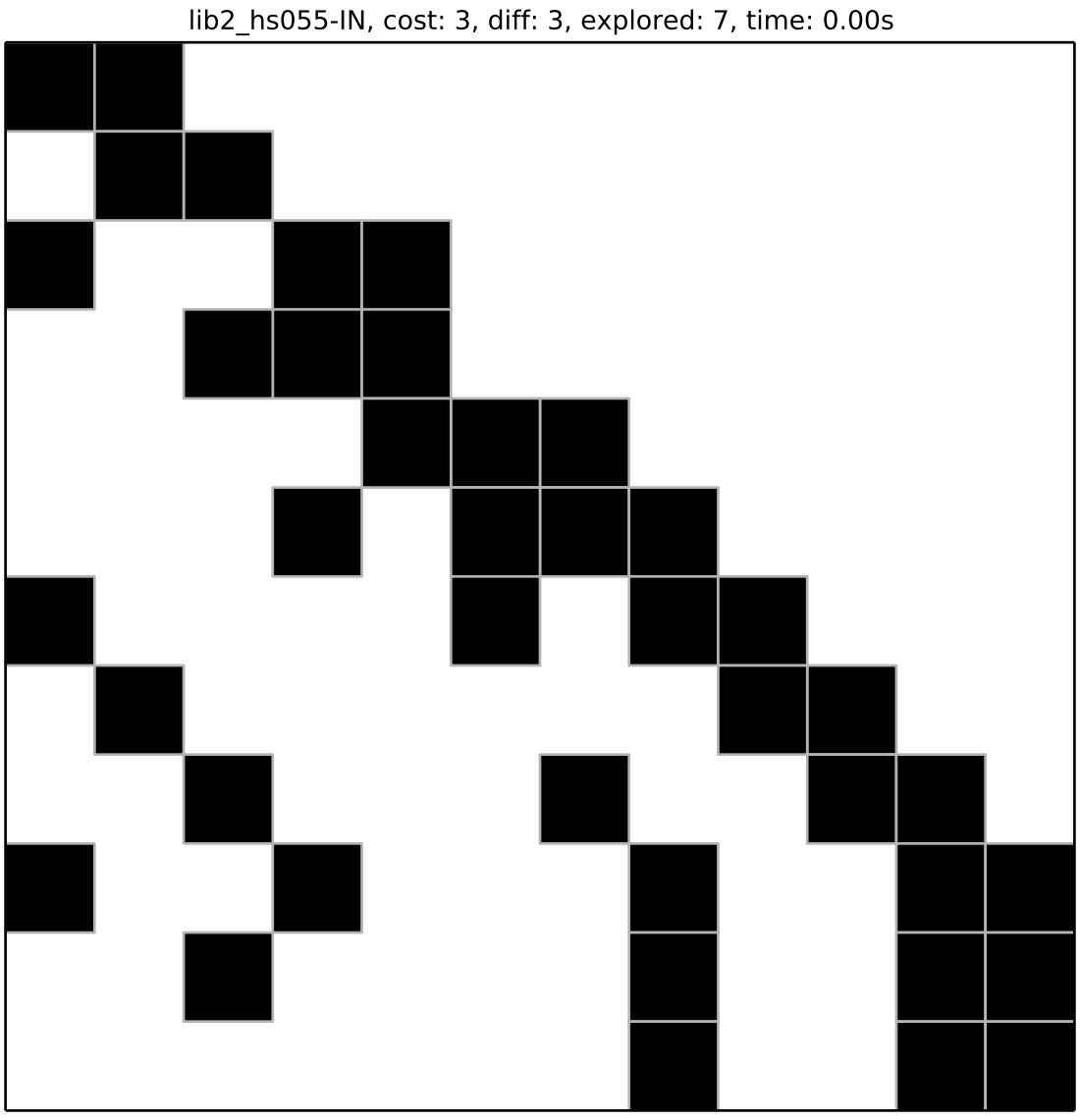
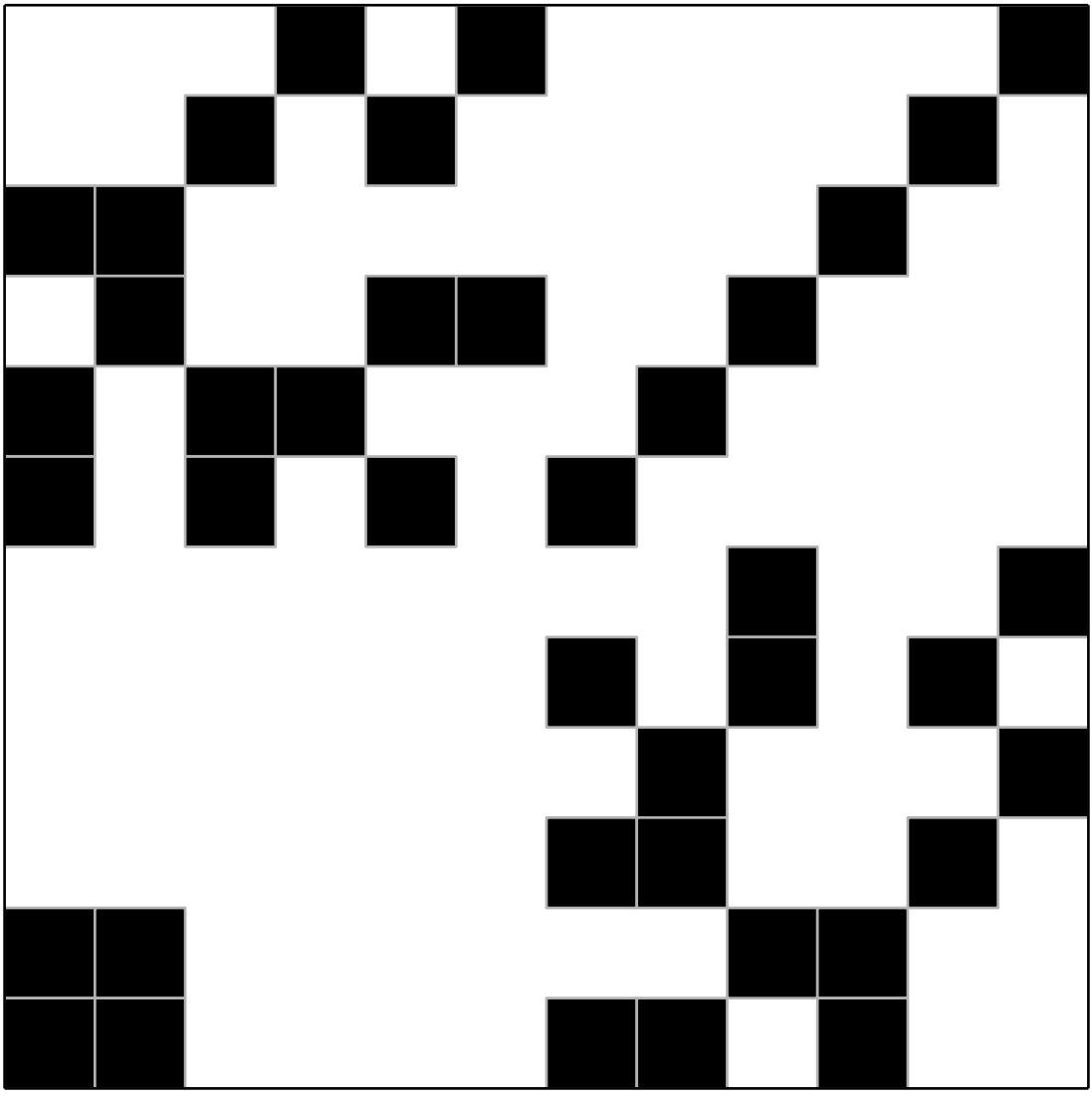
lib2_hs055-IN 12x12 (40) con: 6, var: 6

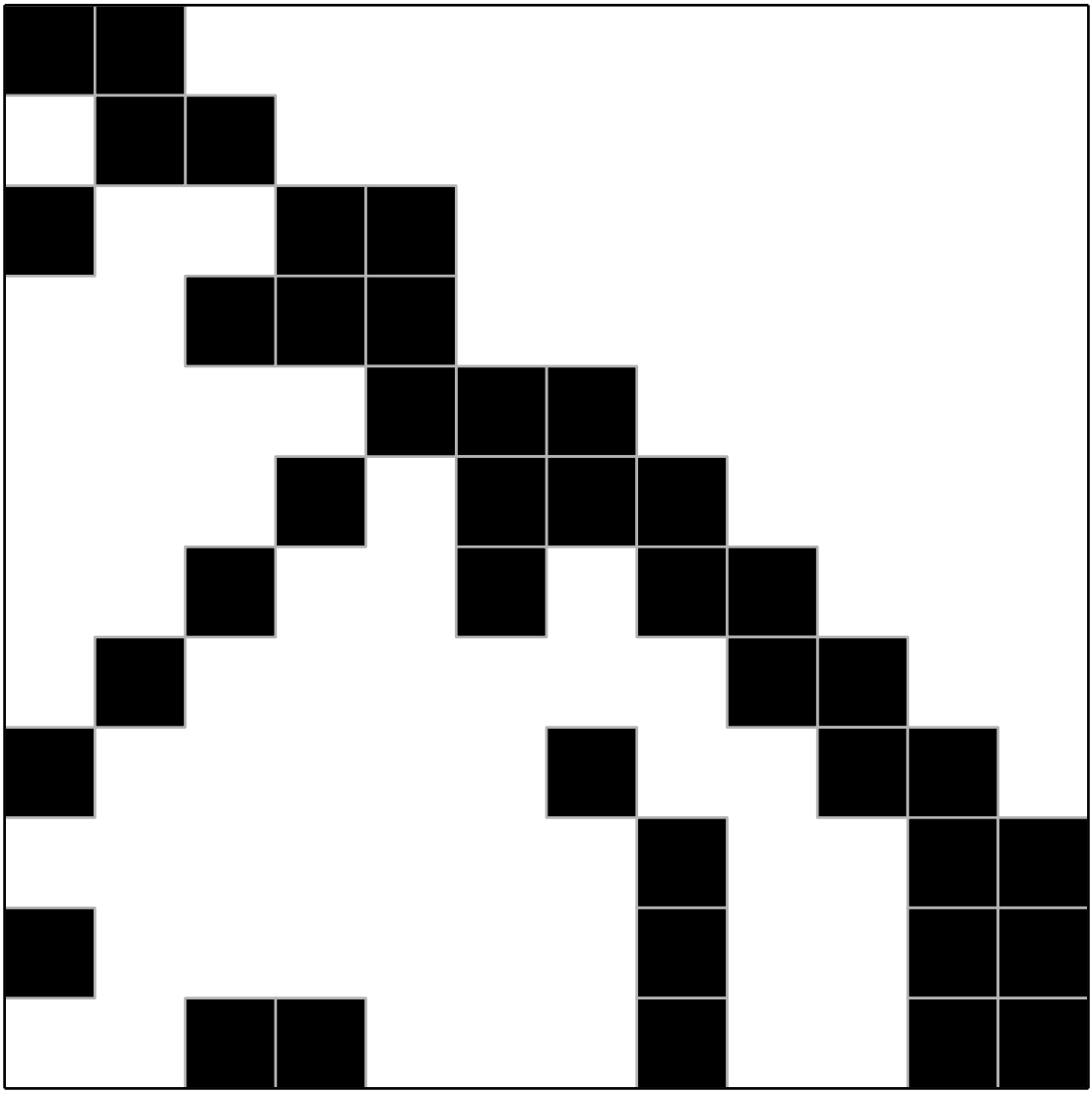



lib2_hs055-IN, cost: 3, diff: 3, explored: 7, time: 0.00s

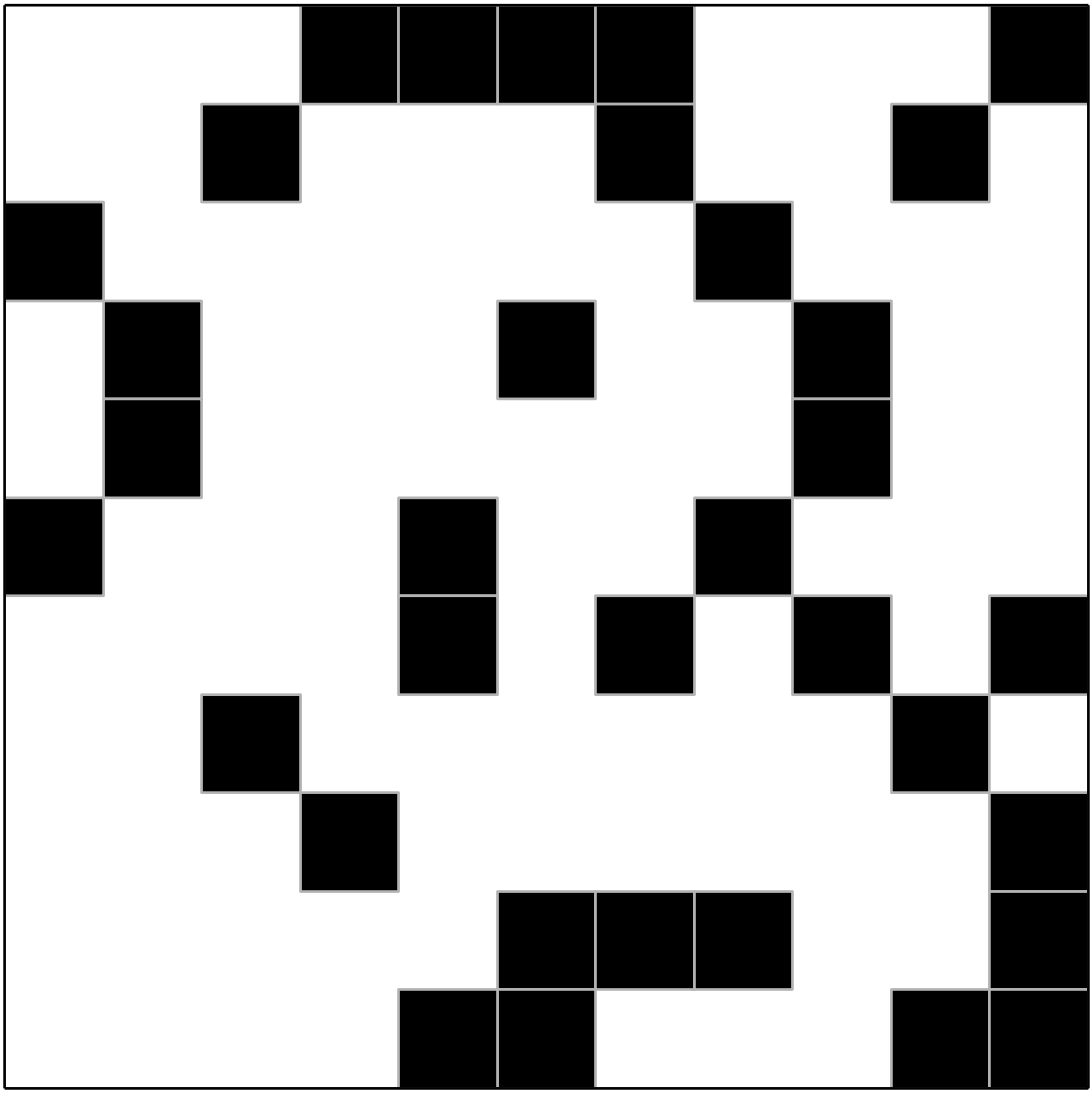
lib2_hs055-RE 12x12 (40) con: 6, var: 6

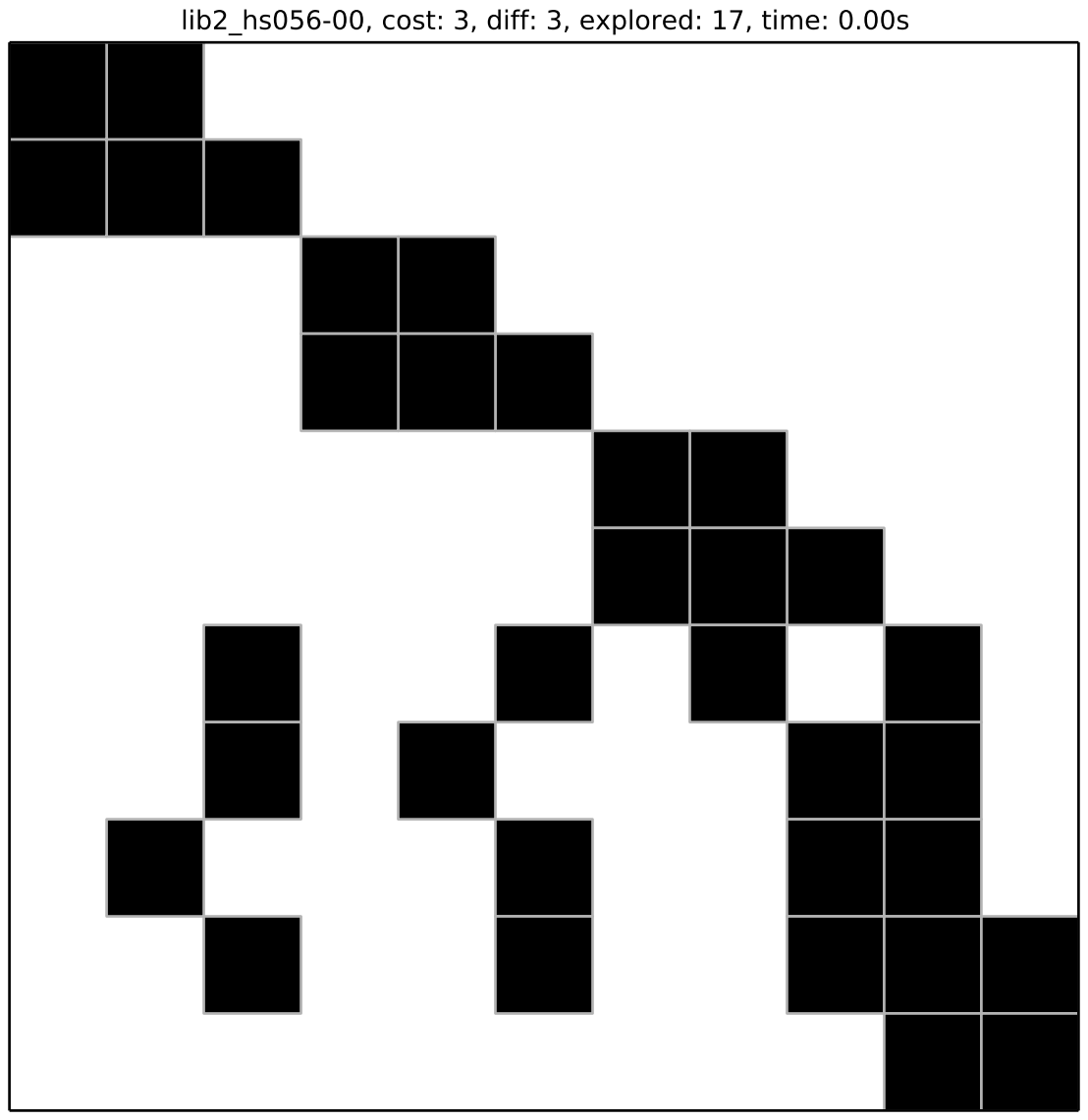


lib2_hs055-RE, cost: 3, diff: 3, explored: 10, time: 0.00s

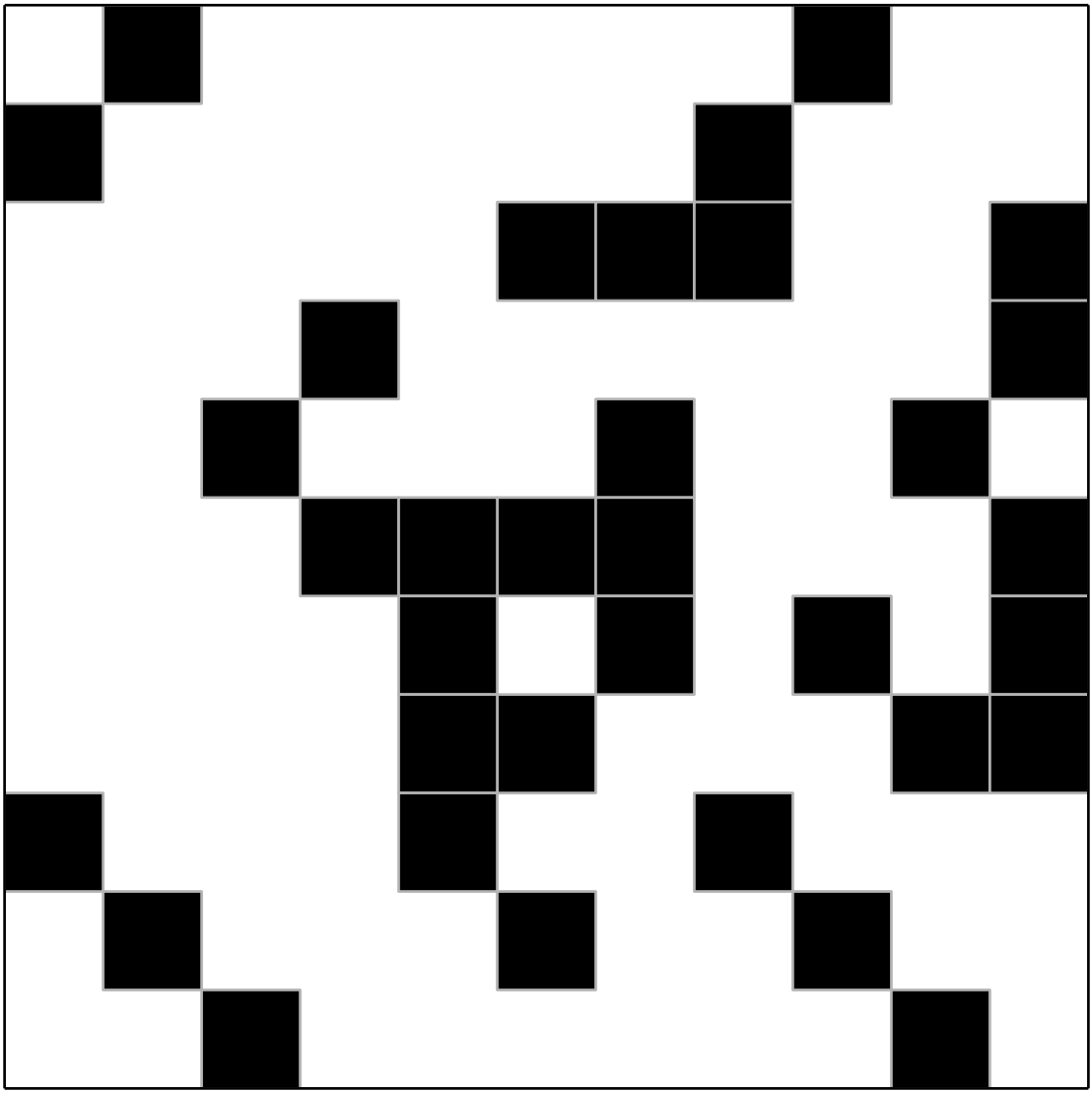


lib2_hs056-00 11x11 (34) con: 4, var: 7




lib2_hs056-00, cost: 3, diff: 3, explored: 17, time: 0.00s

lib2_hs056-01 11x11 (34) con: 4, var: 7



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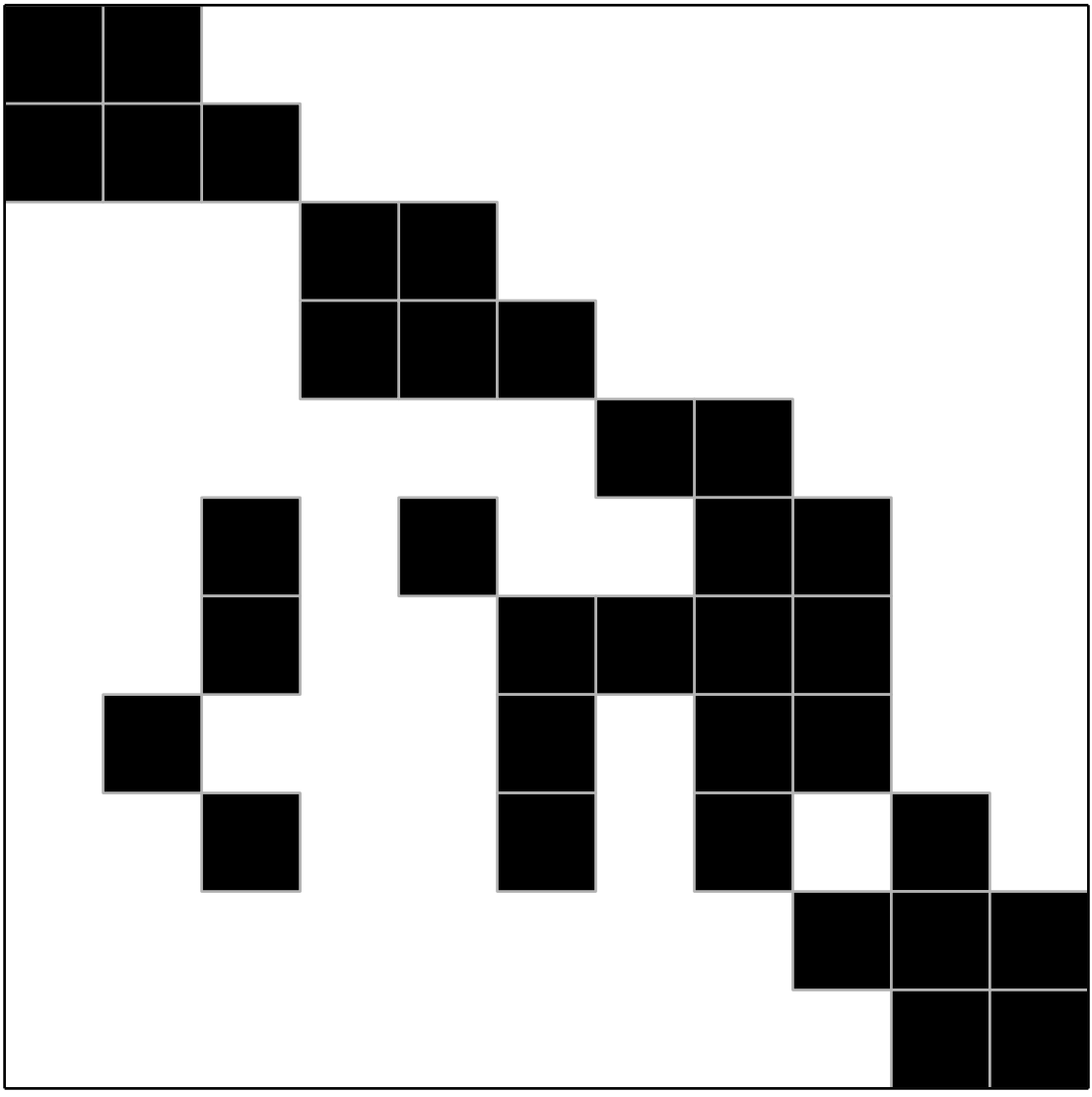
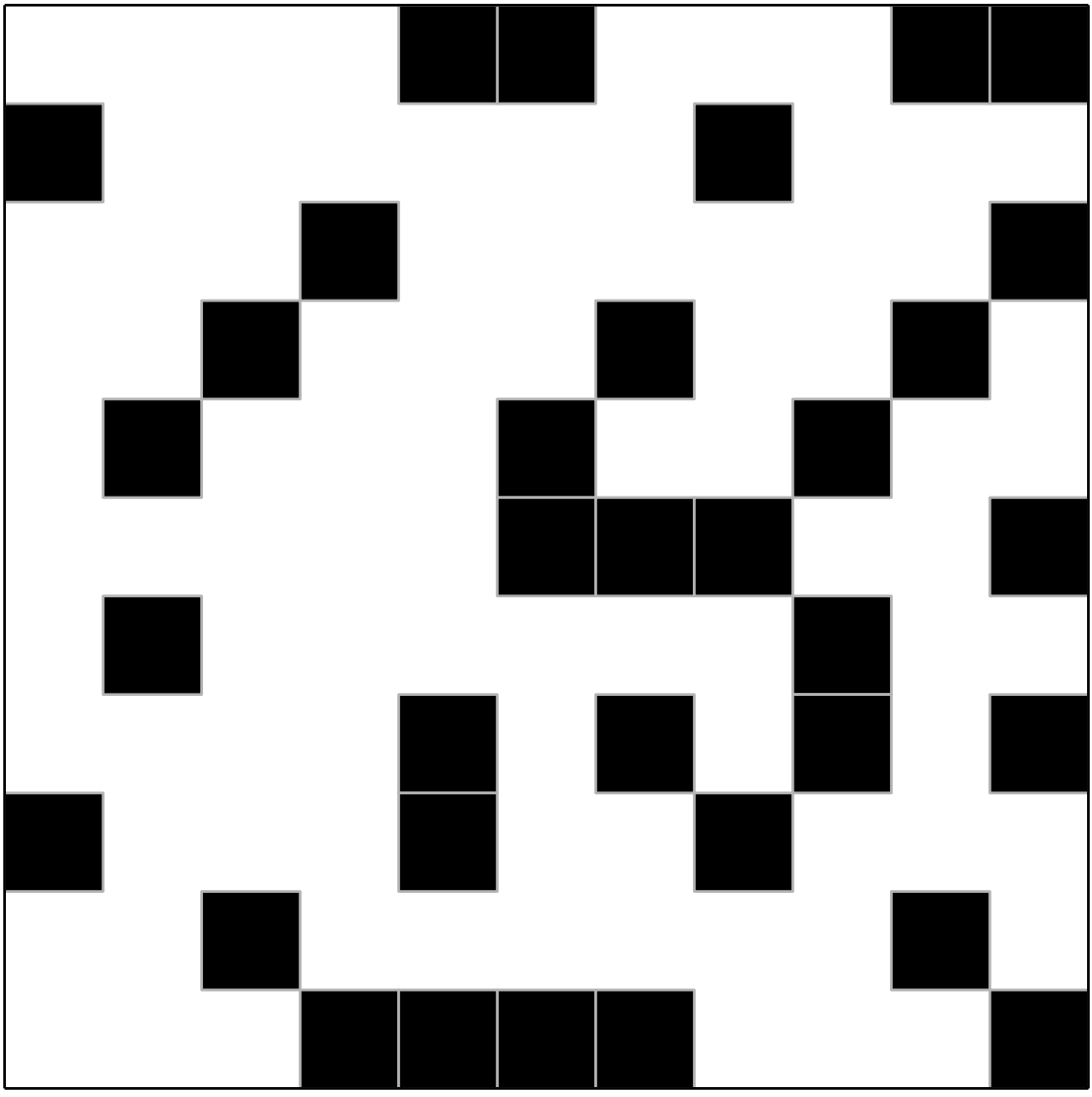
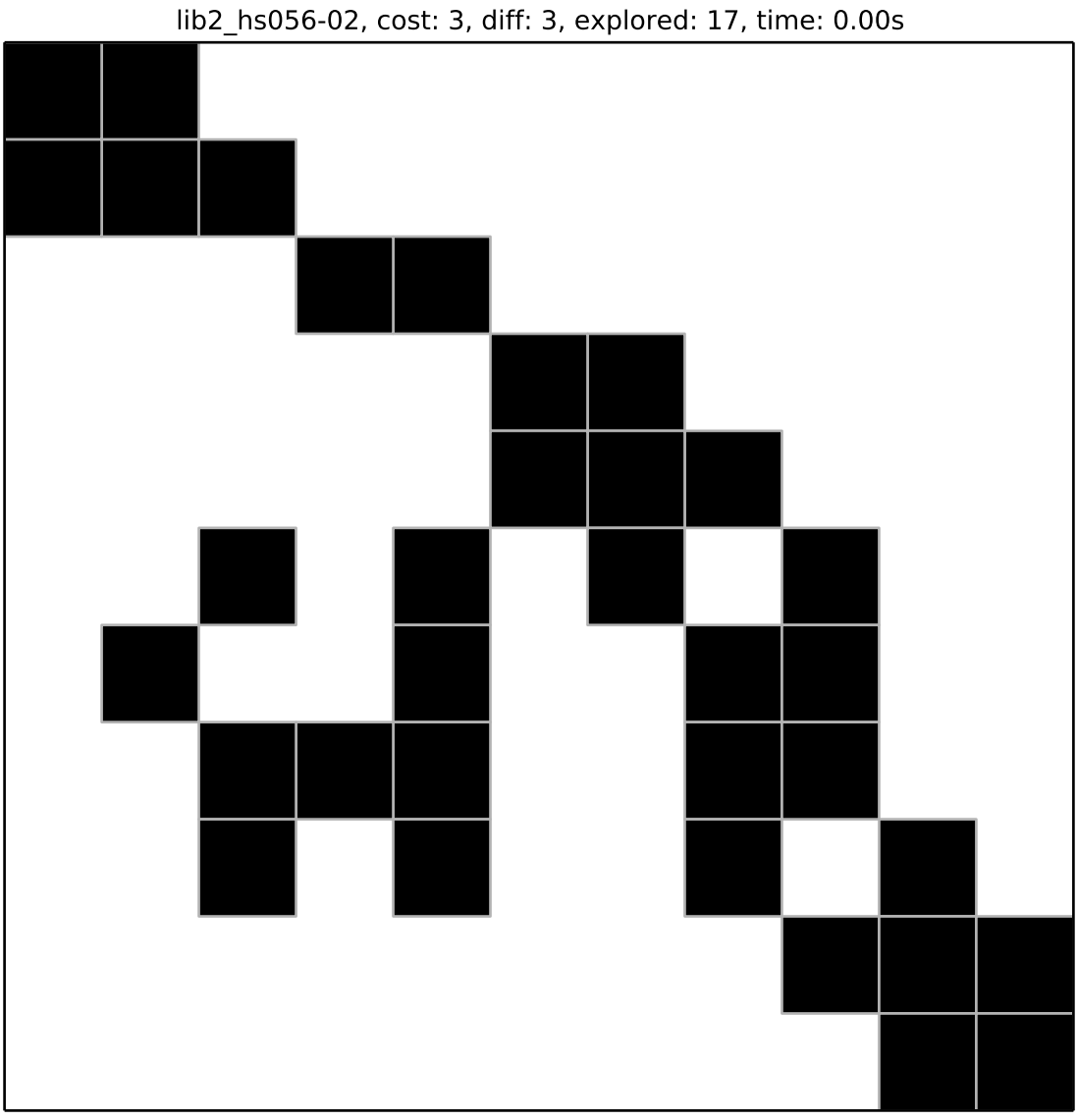


lib2_hs056-02 11x11 (34) con: 4, var: 7

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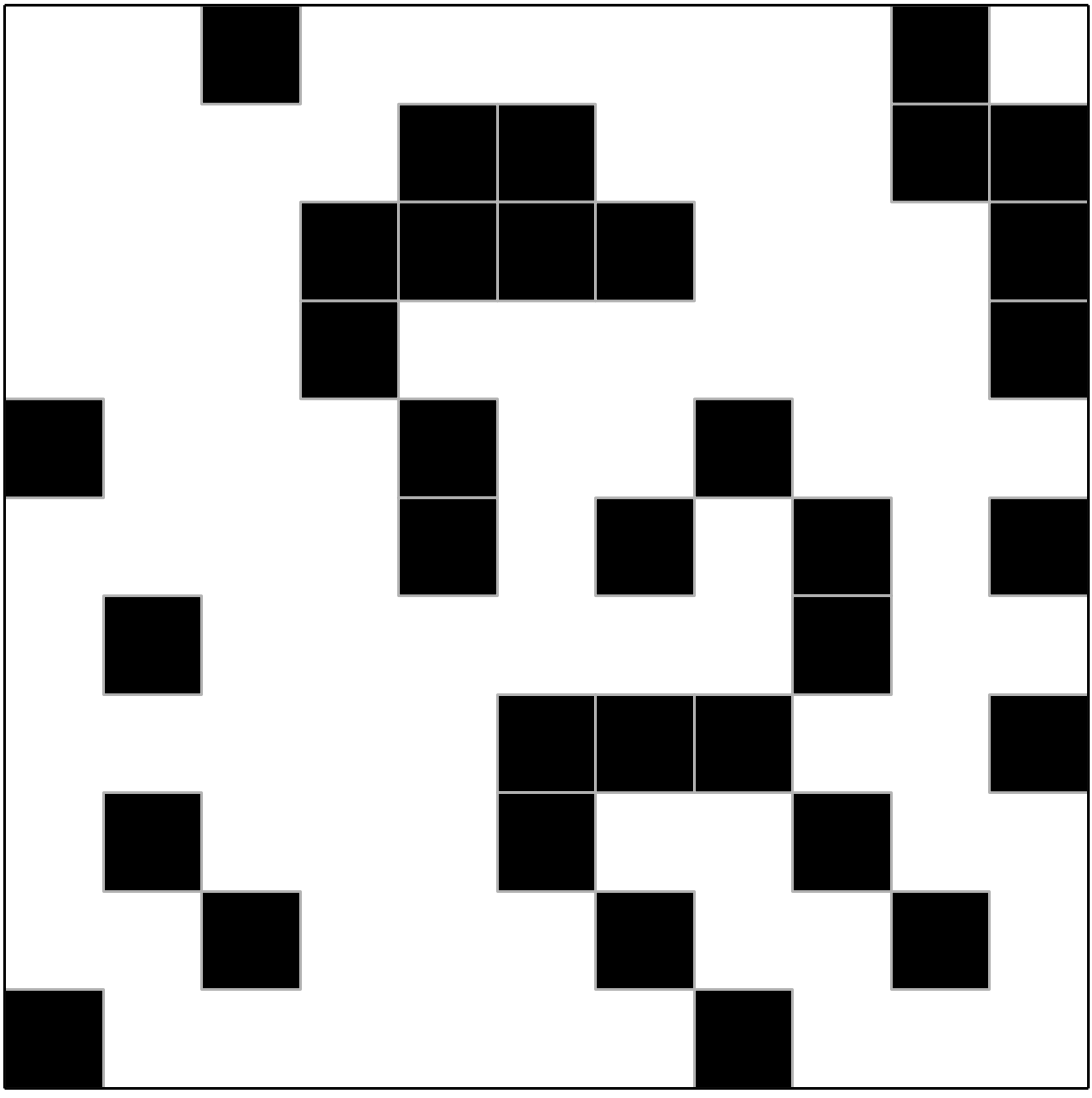
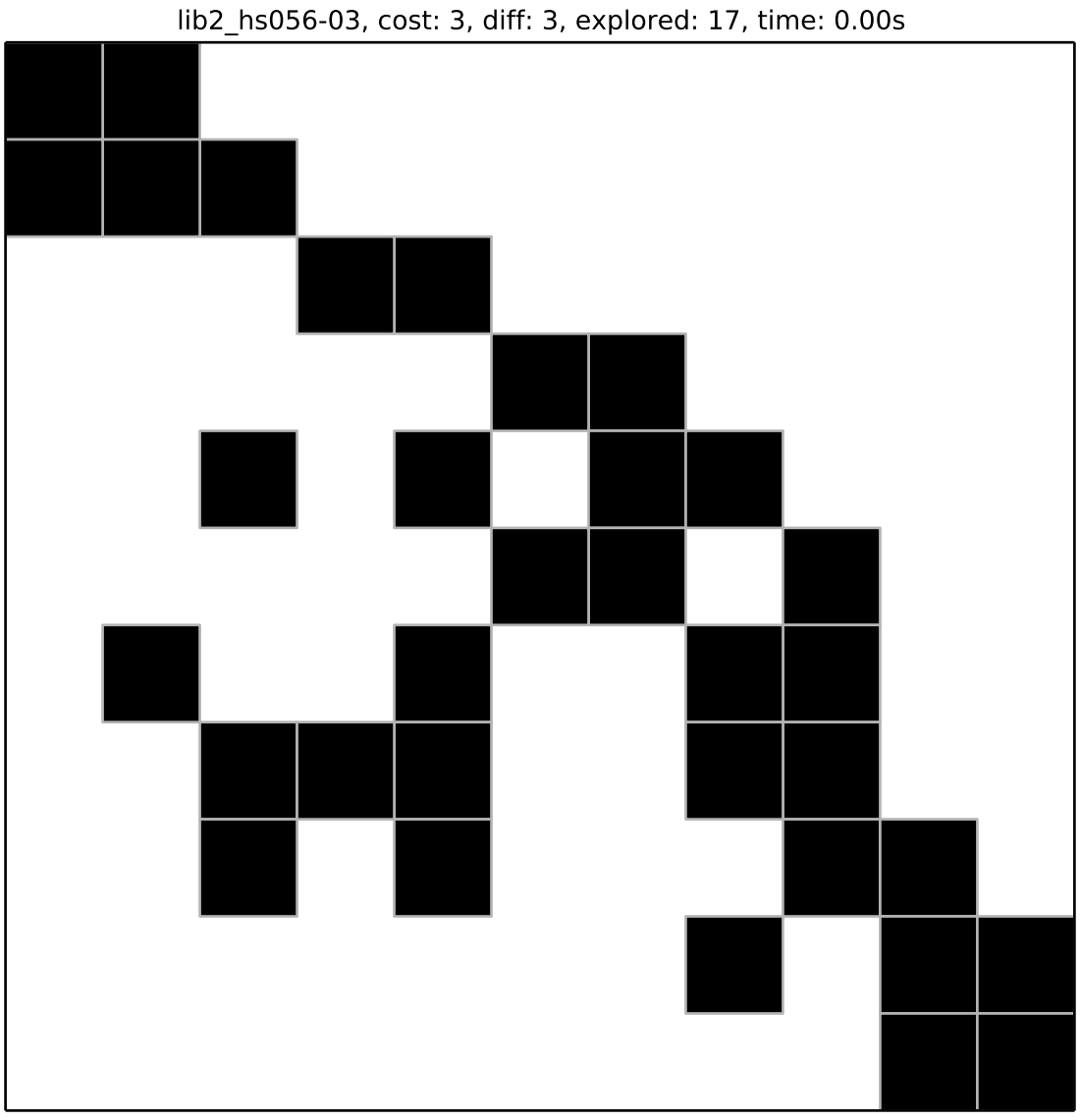
lib2_hs056-03 11x11 (34) con: 4, var: 7

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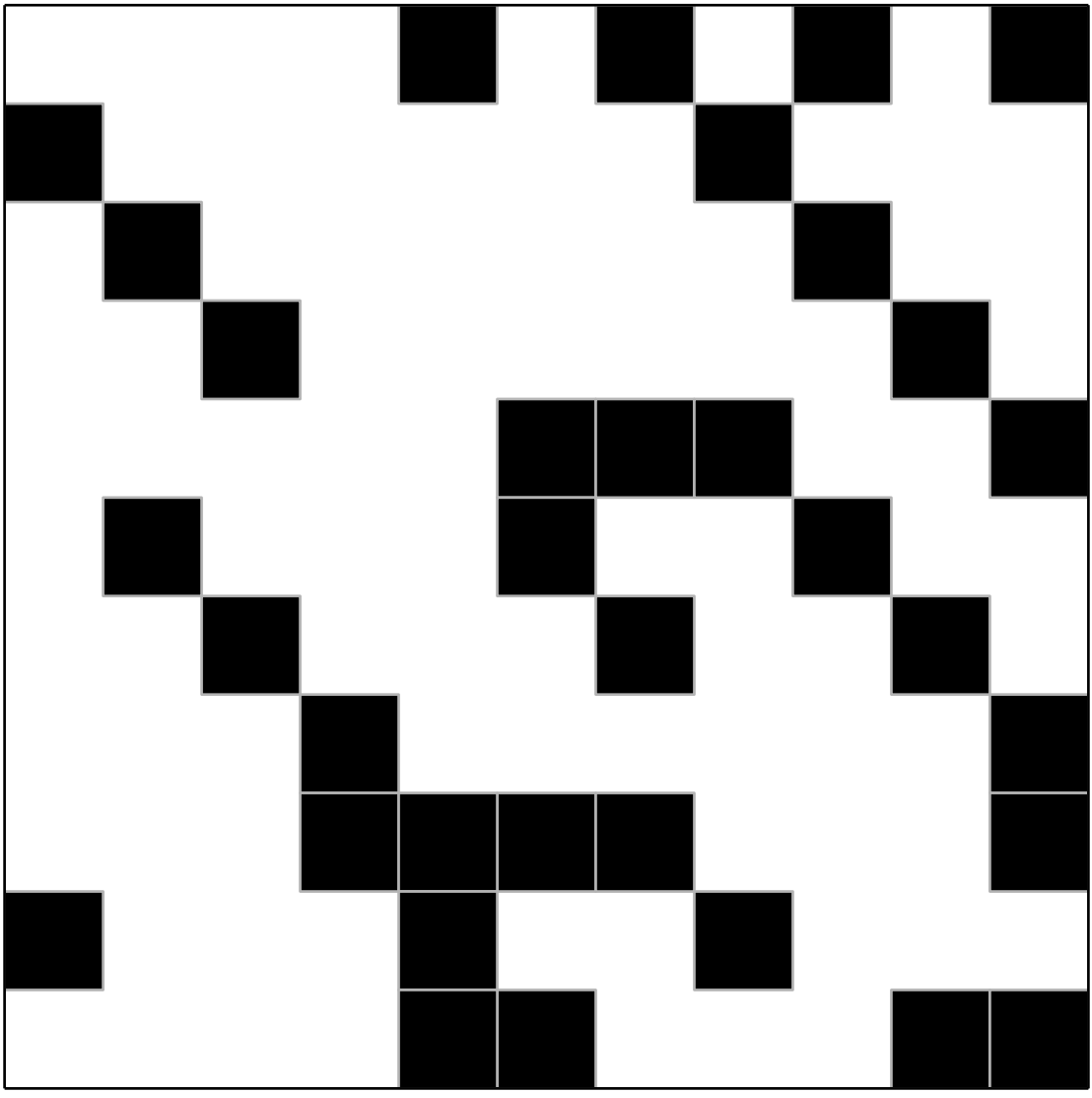
lib2_hs056-04 11x11 (34) con: 4, var: 7



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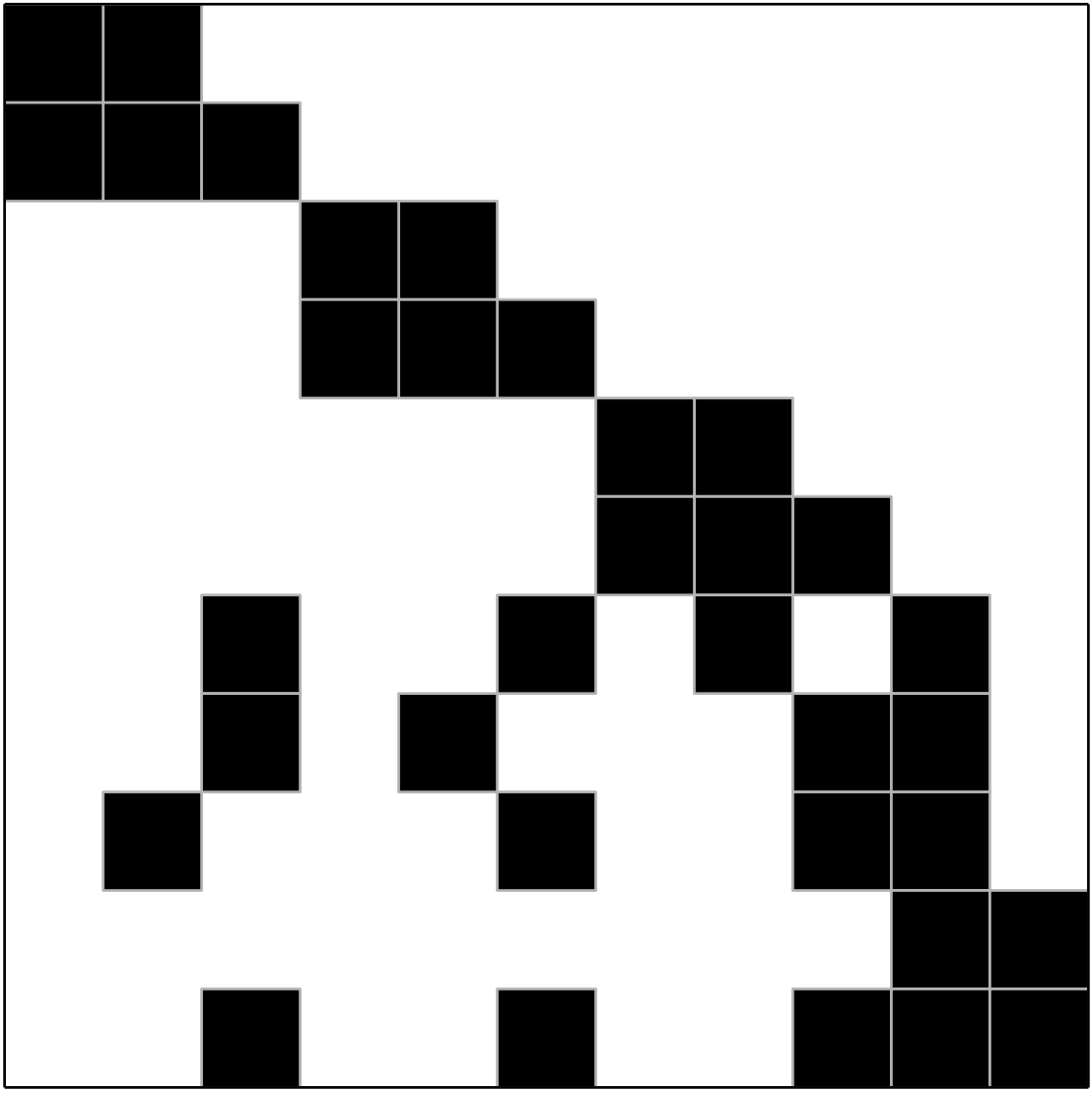
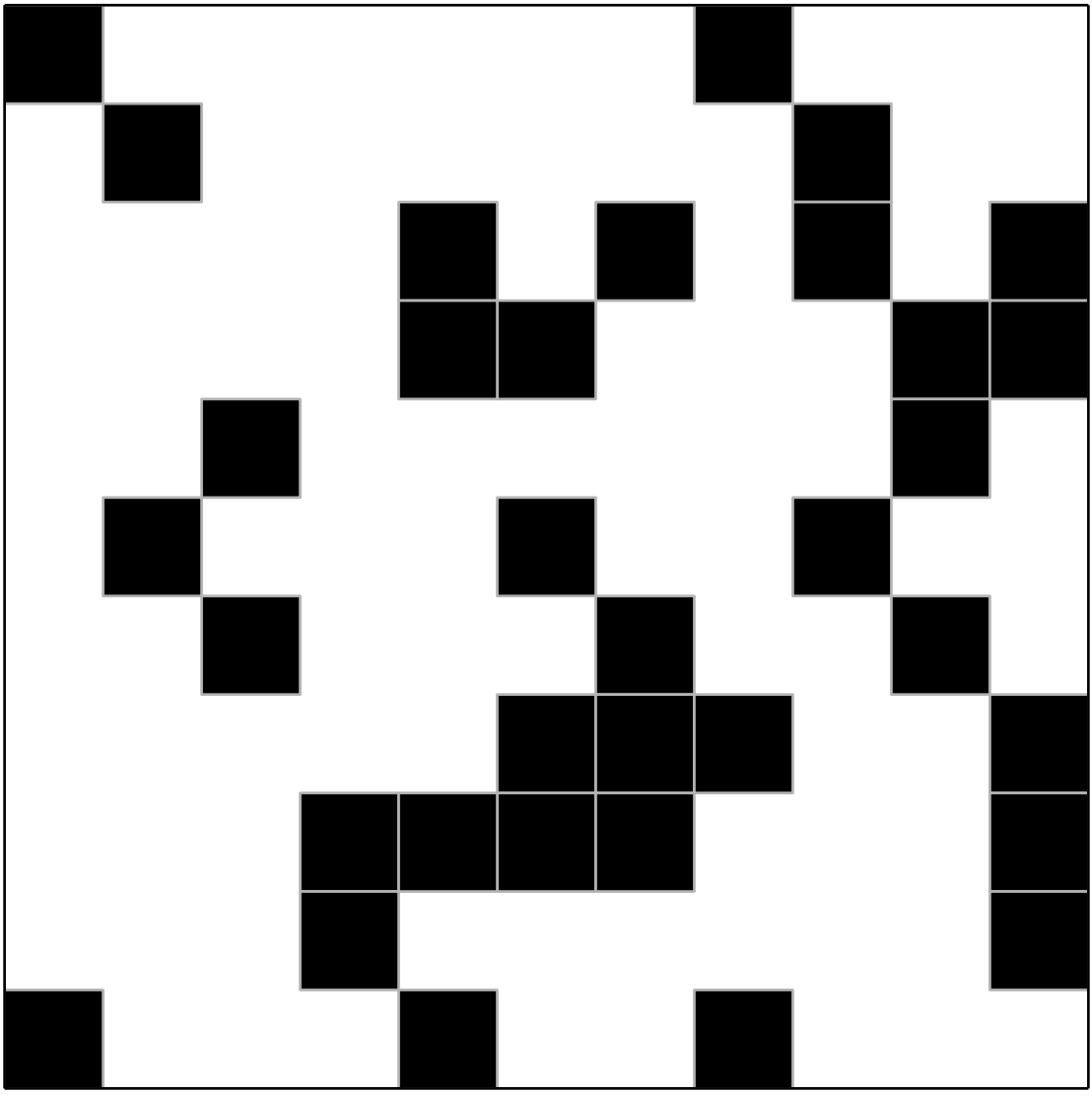


lib2_hs056-05 11x11 (34) con: 4, var: 7



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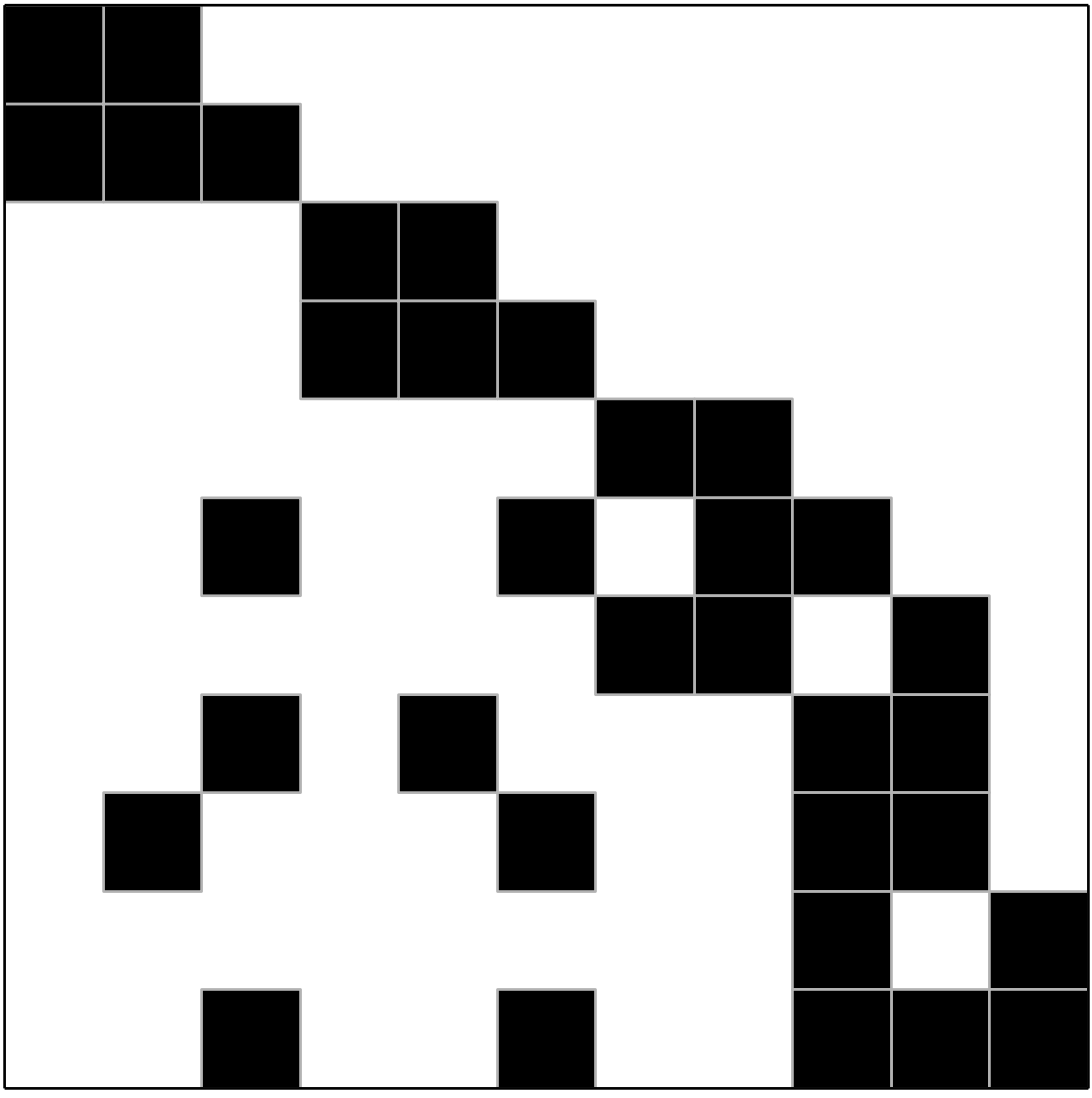
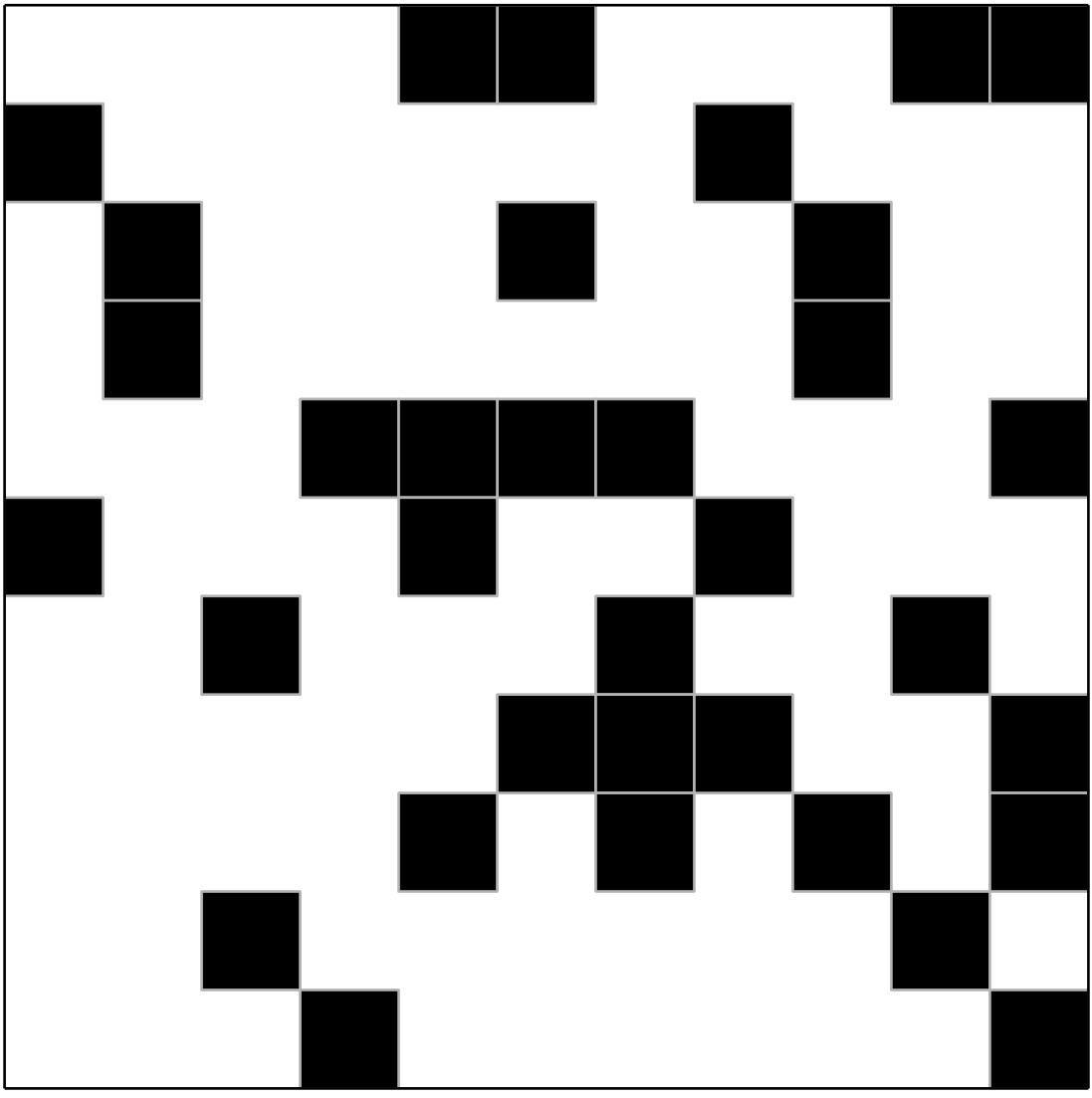


lib2_hs056-06 11x11 (34) con: 4, var: 7



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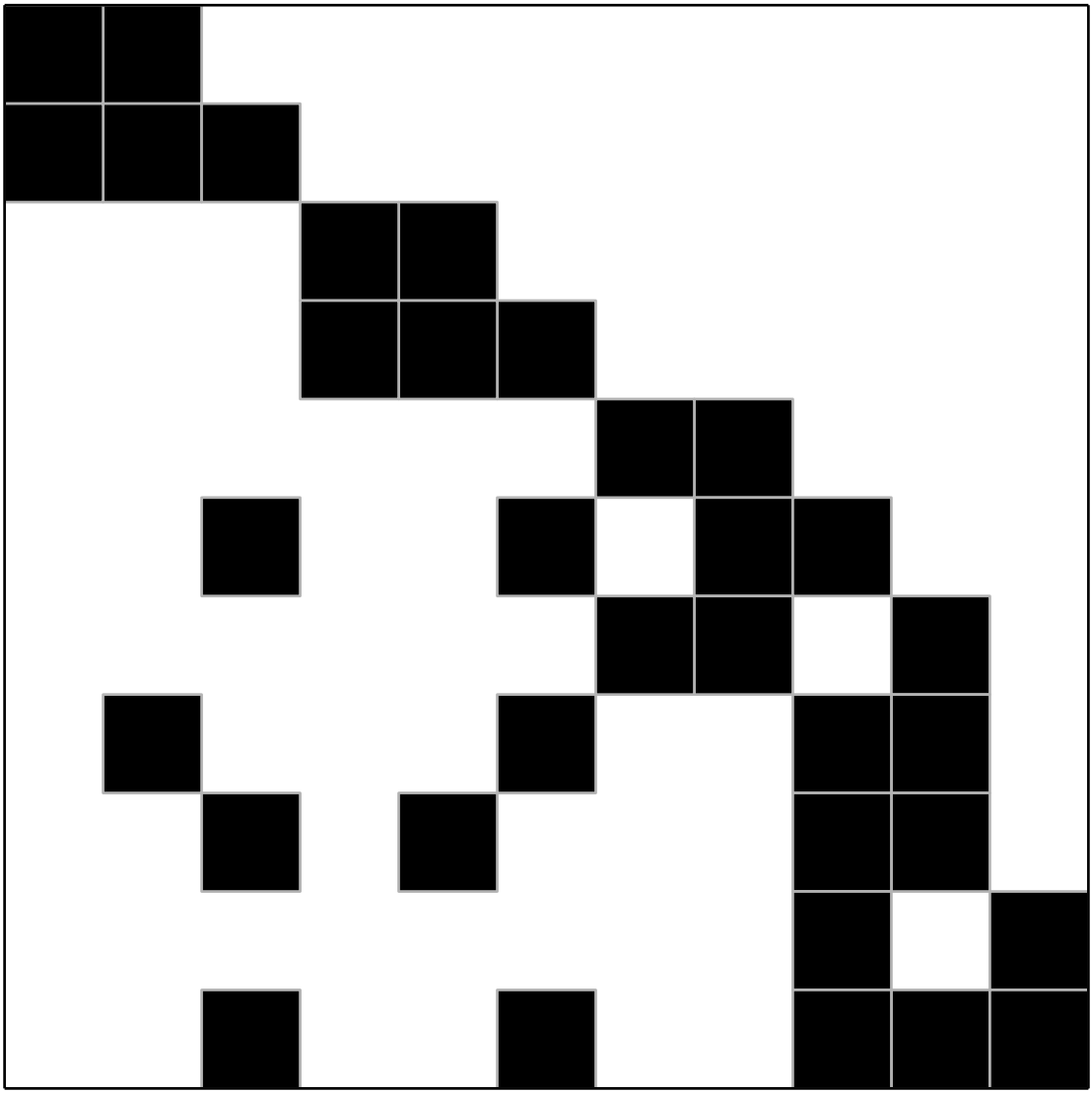
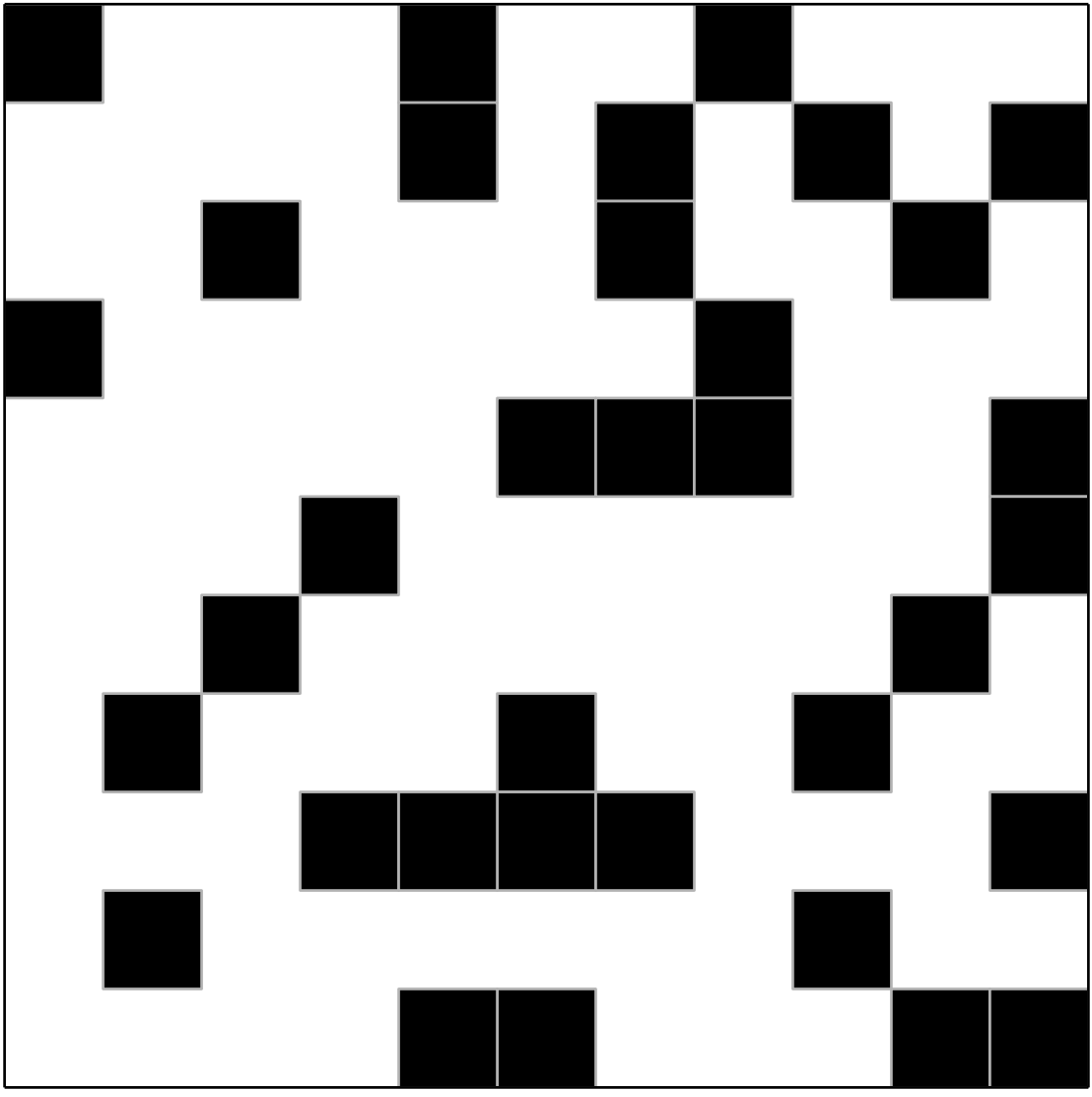


lib2_hs056-07 11x11 (34) con: 4, var: 7



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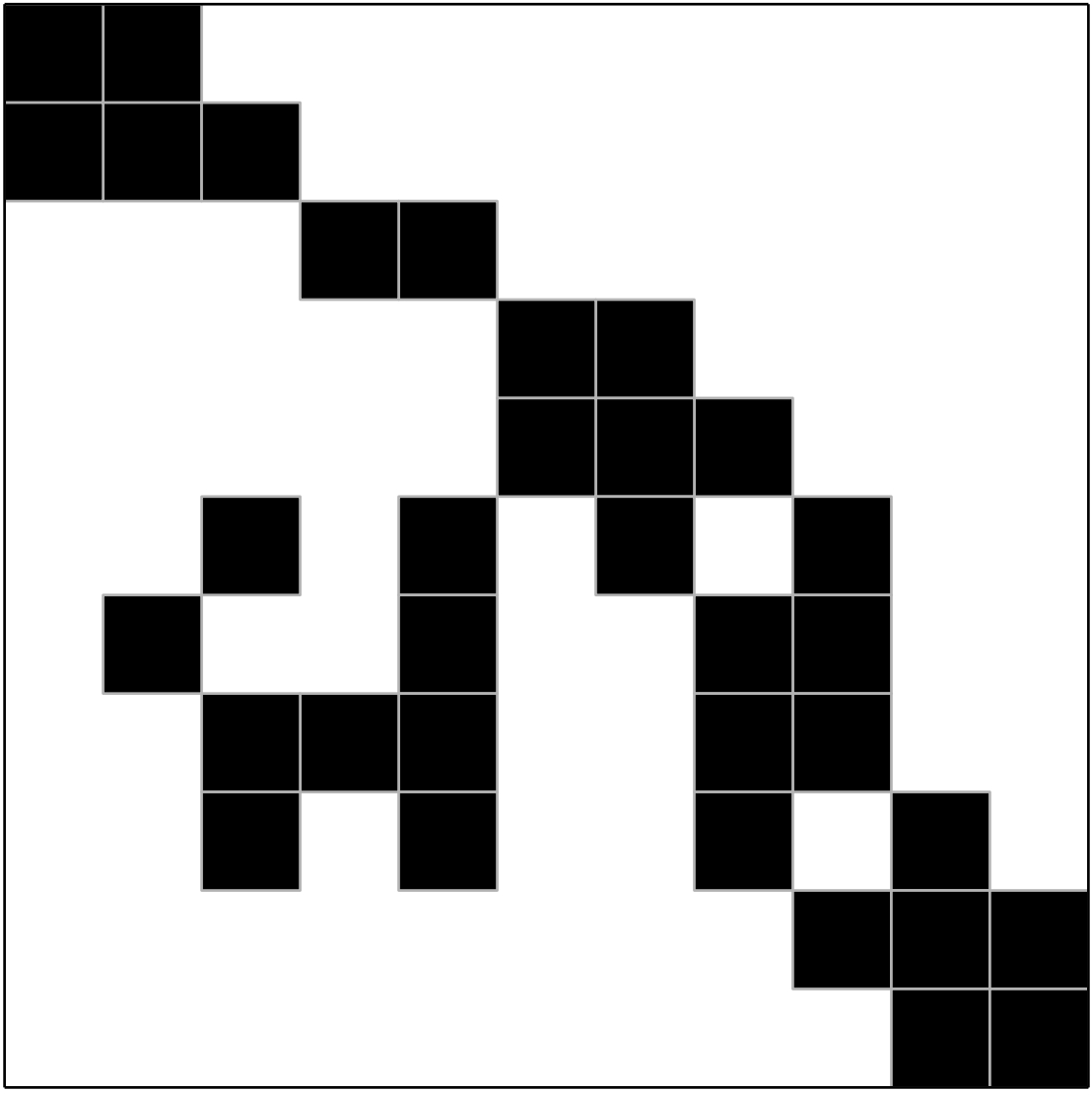
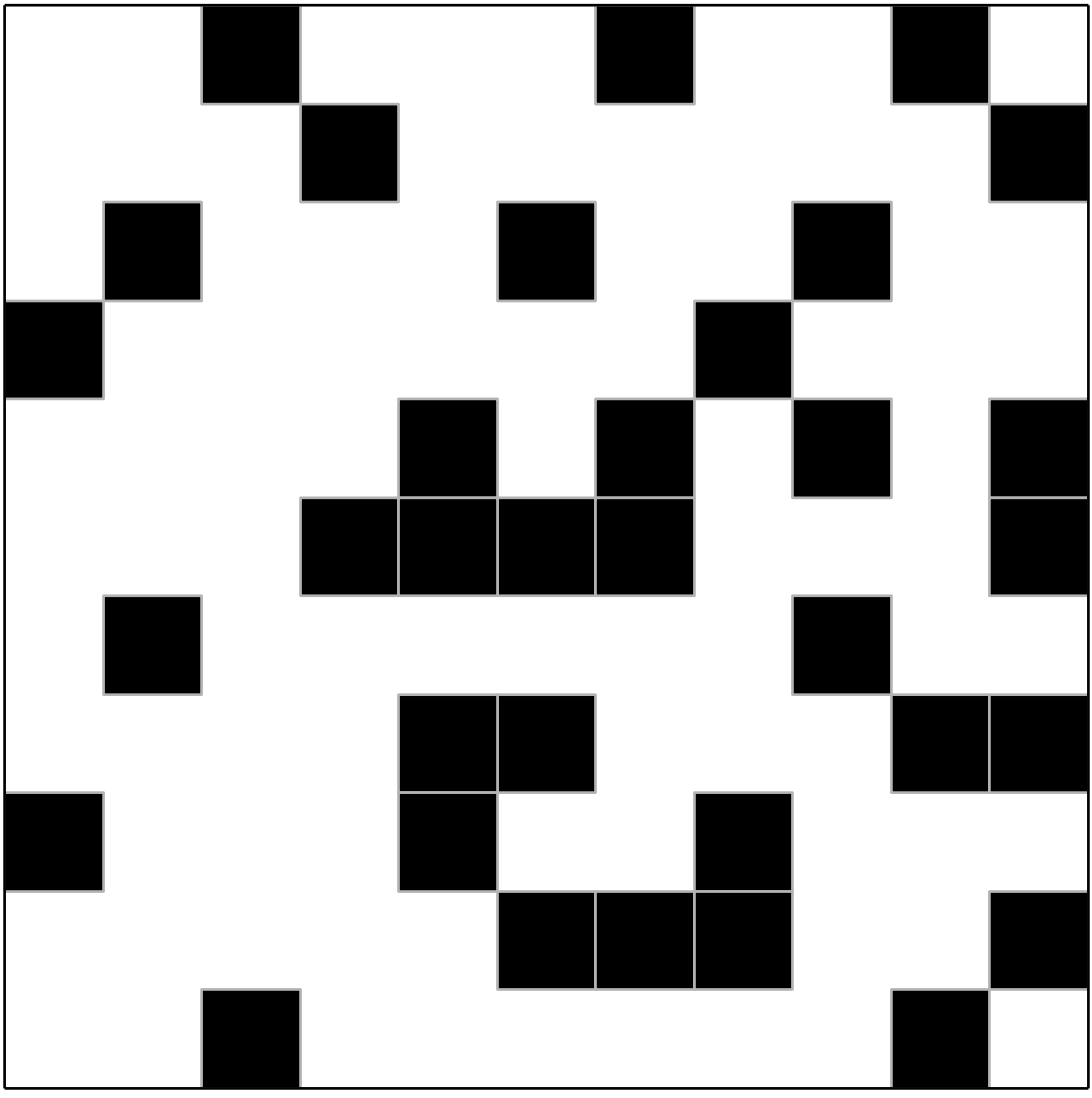
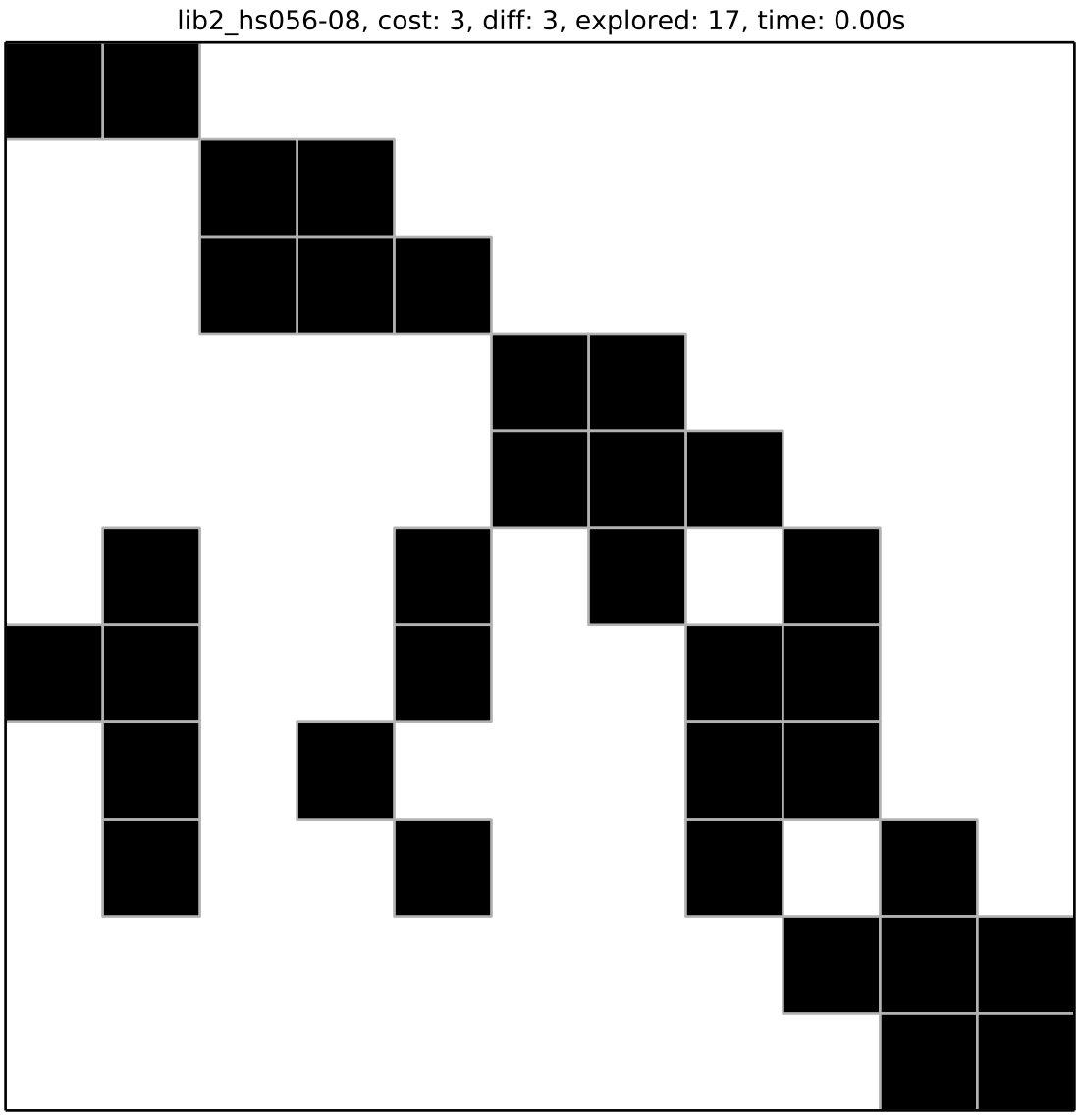


lib2_hs056-08 11x11 (34) con: 4, var: 7

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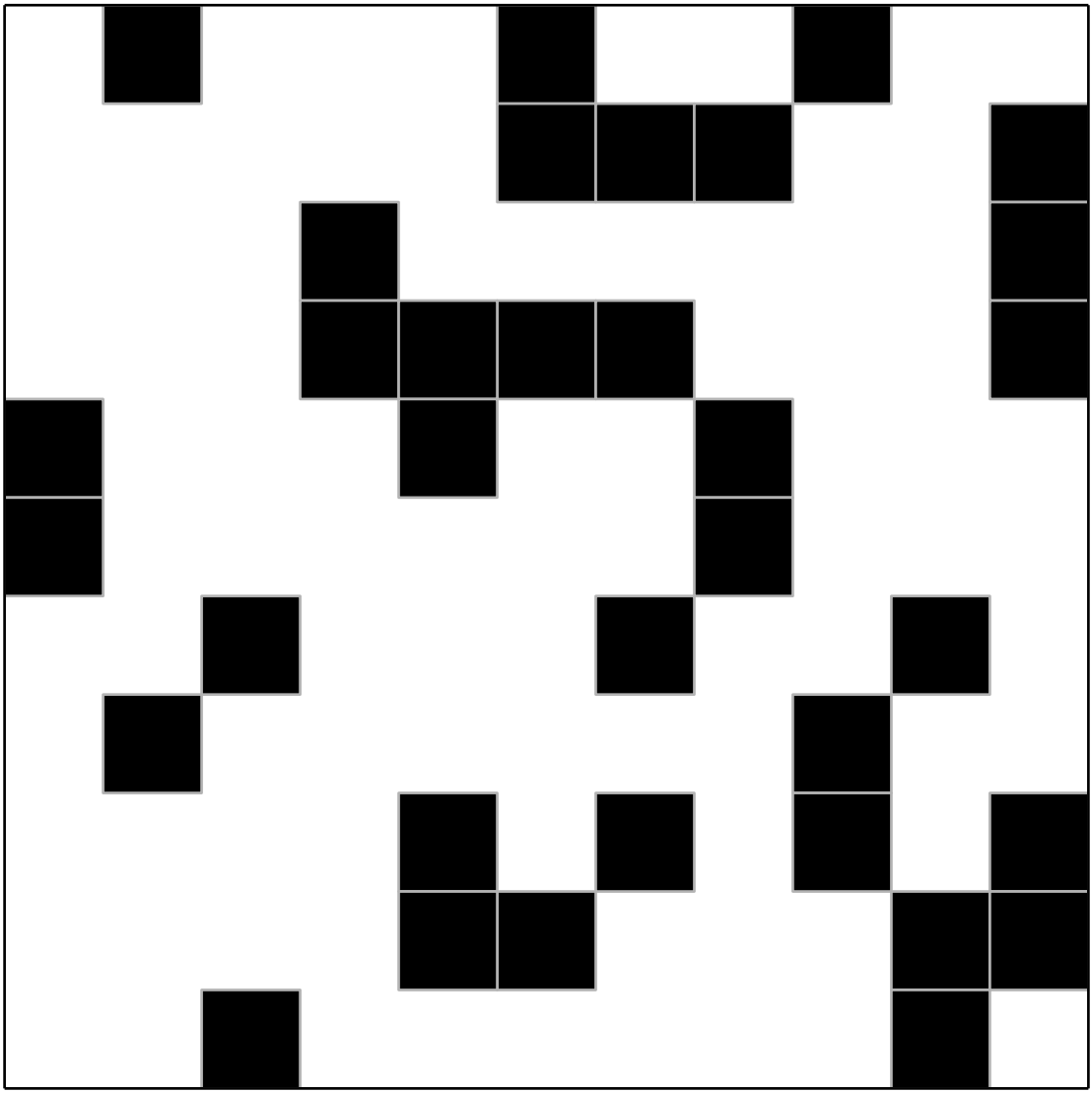
lib2_hs056-09 11x11 (34) con: 4, var: 7



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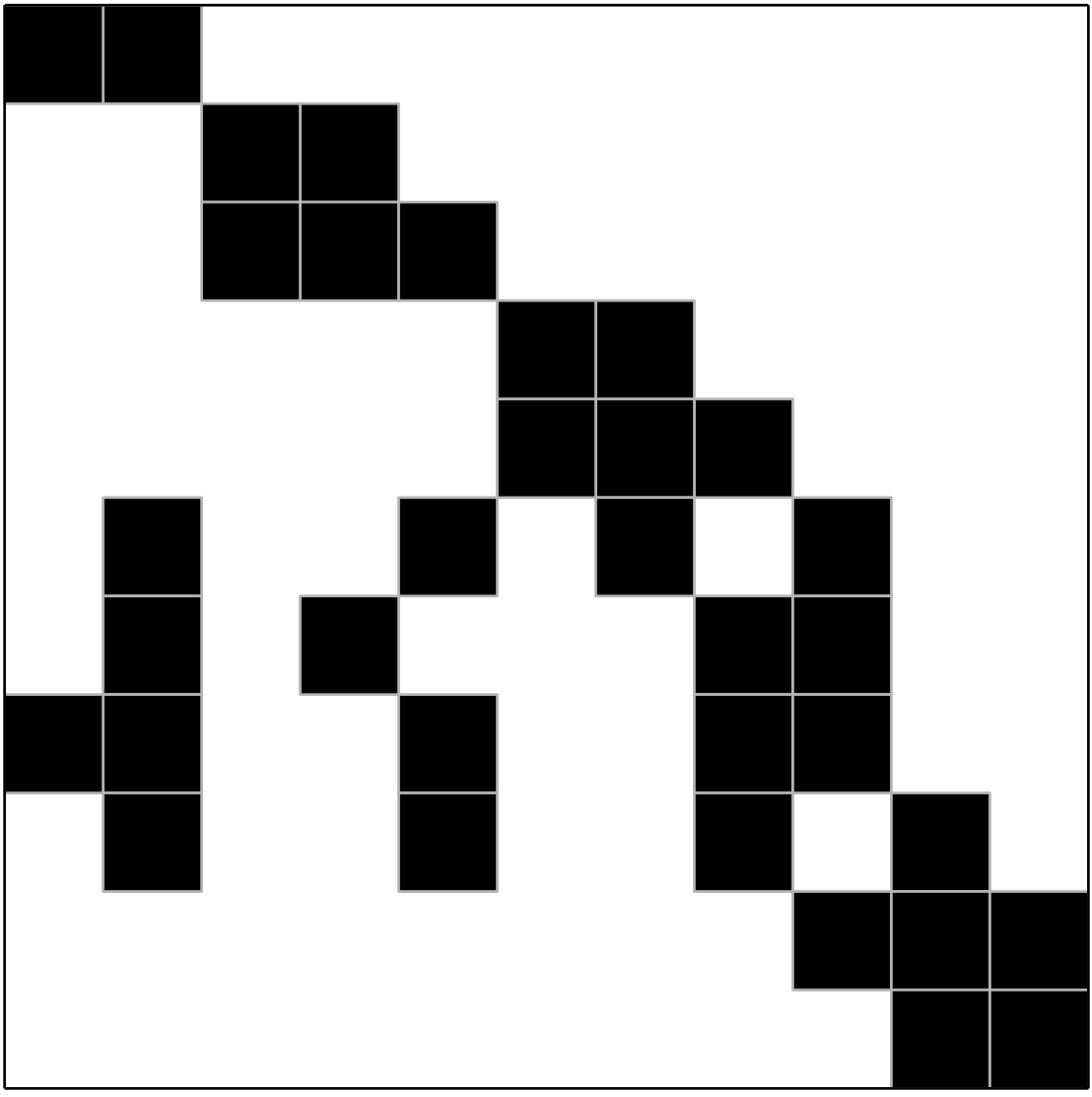
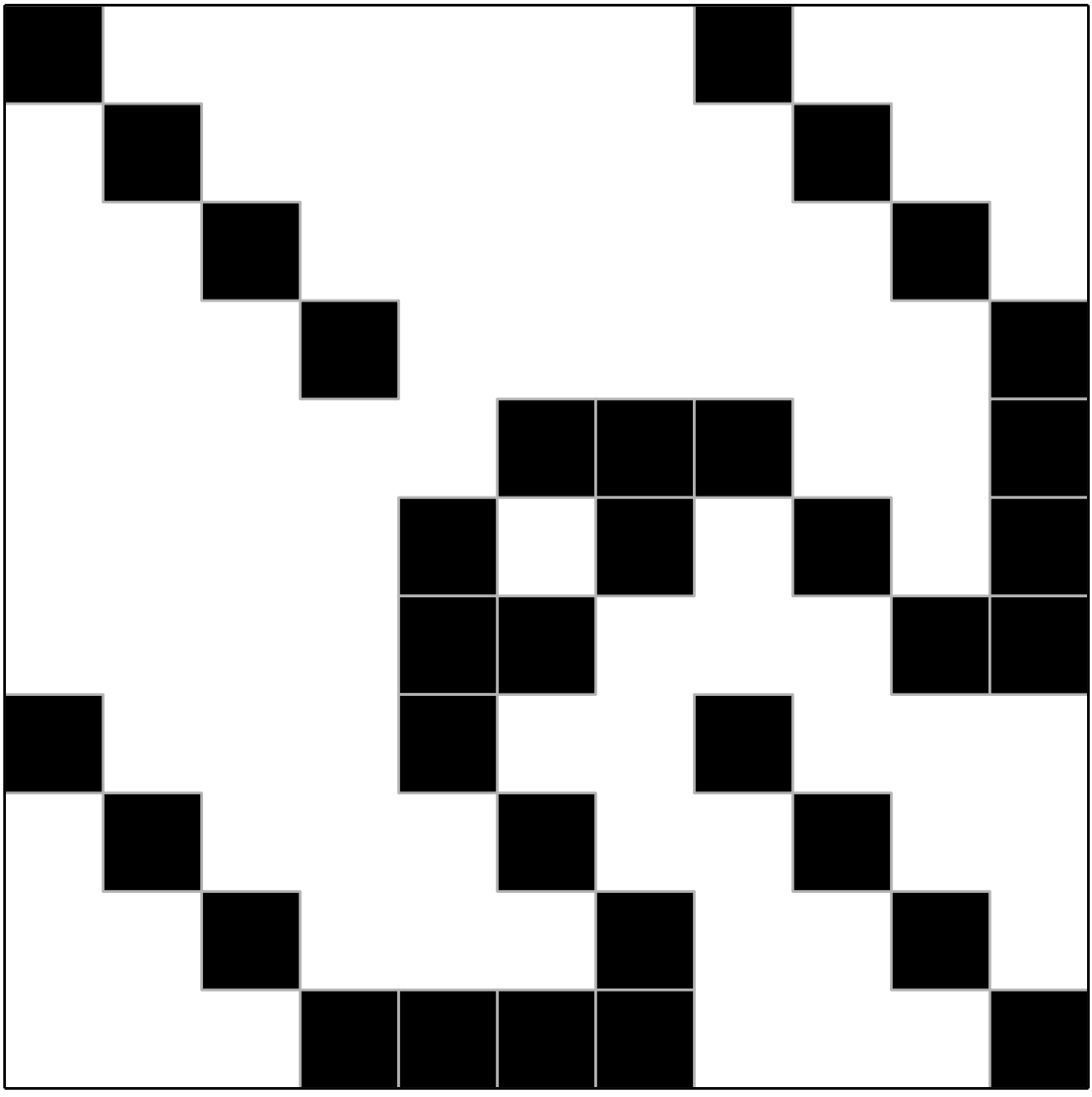
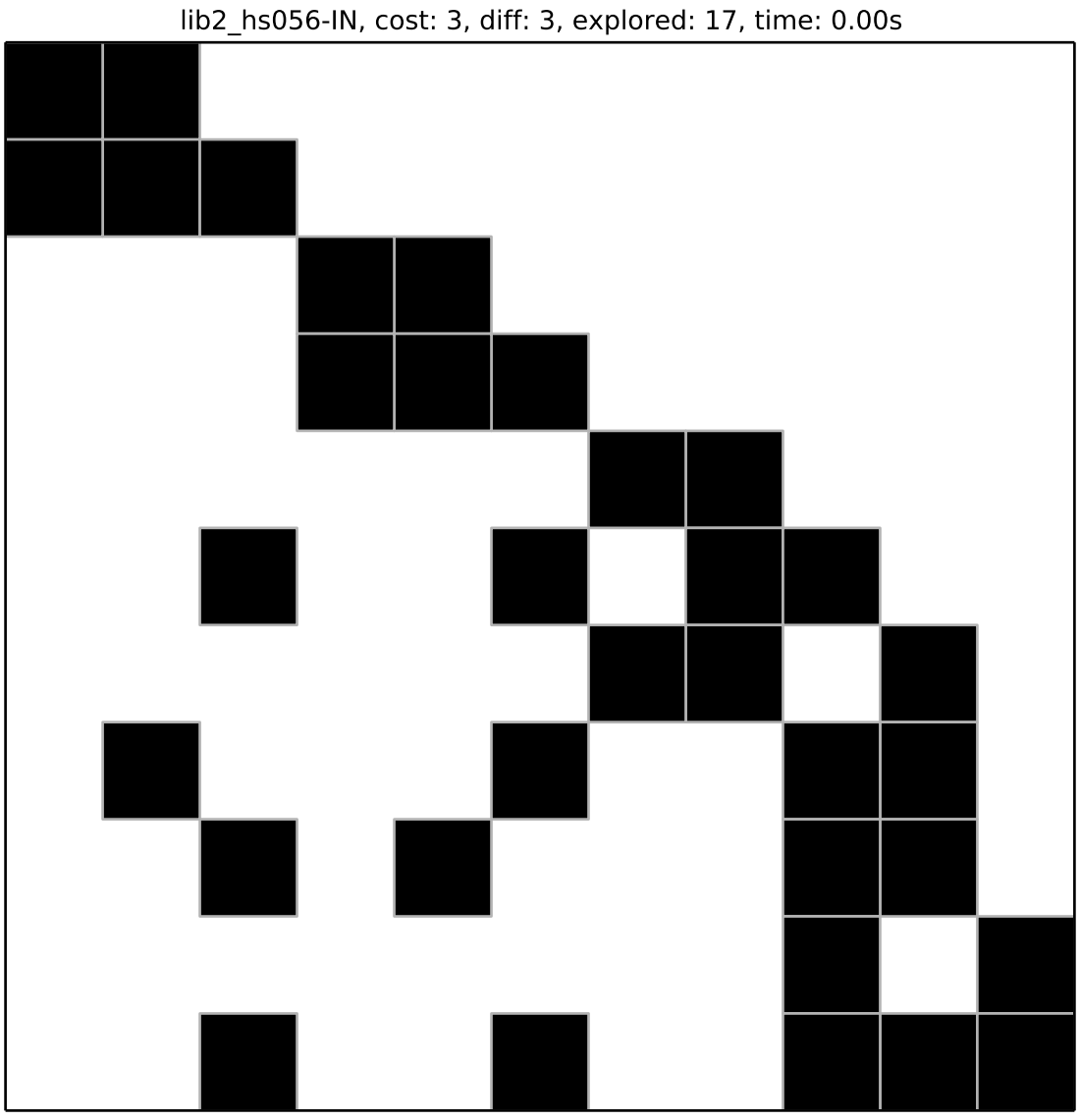


lib2_hs056-IN 11x11 (34) con: 4, var: 7

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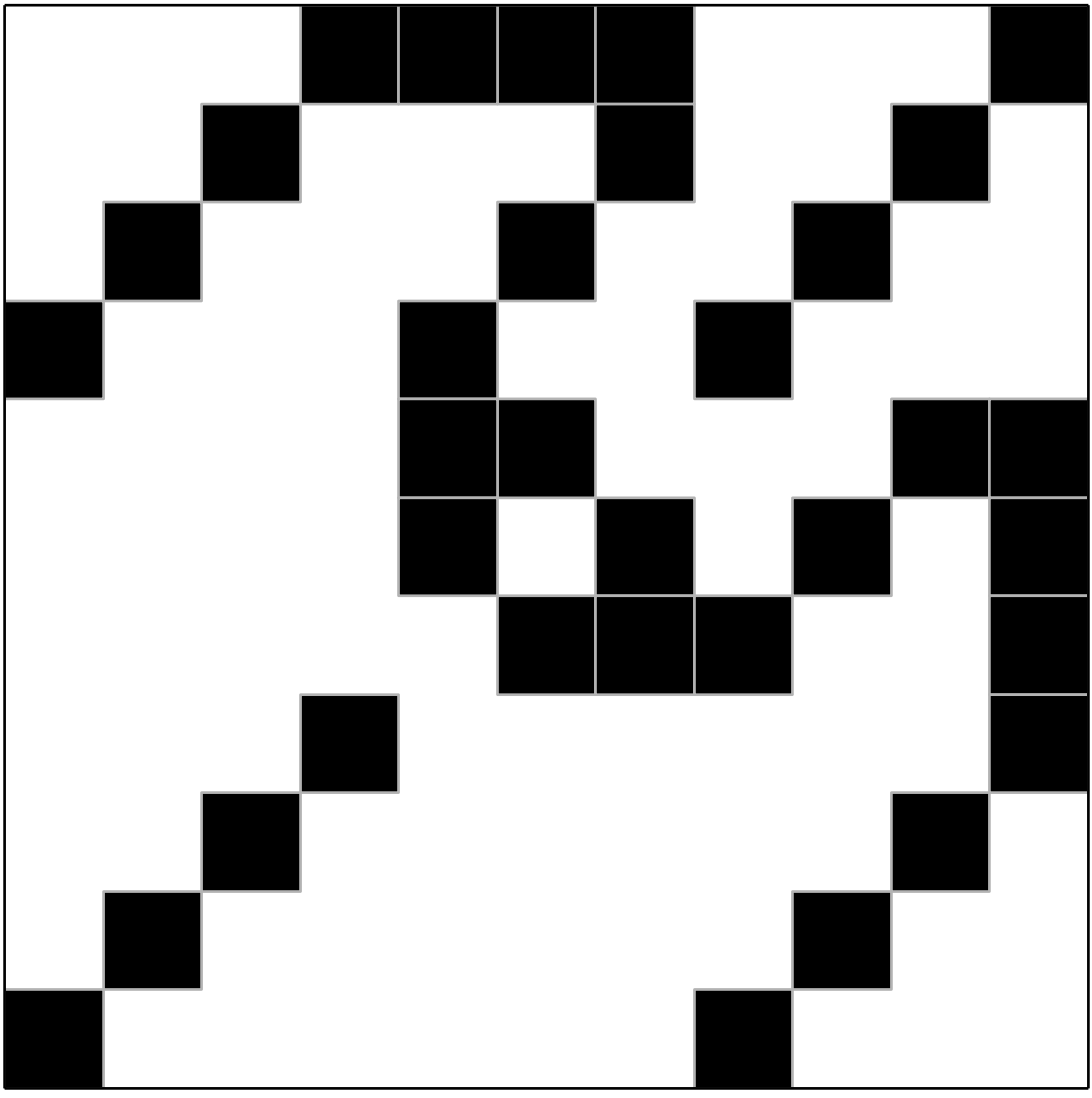
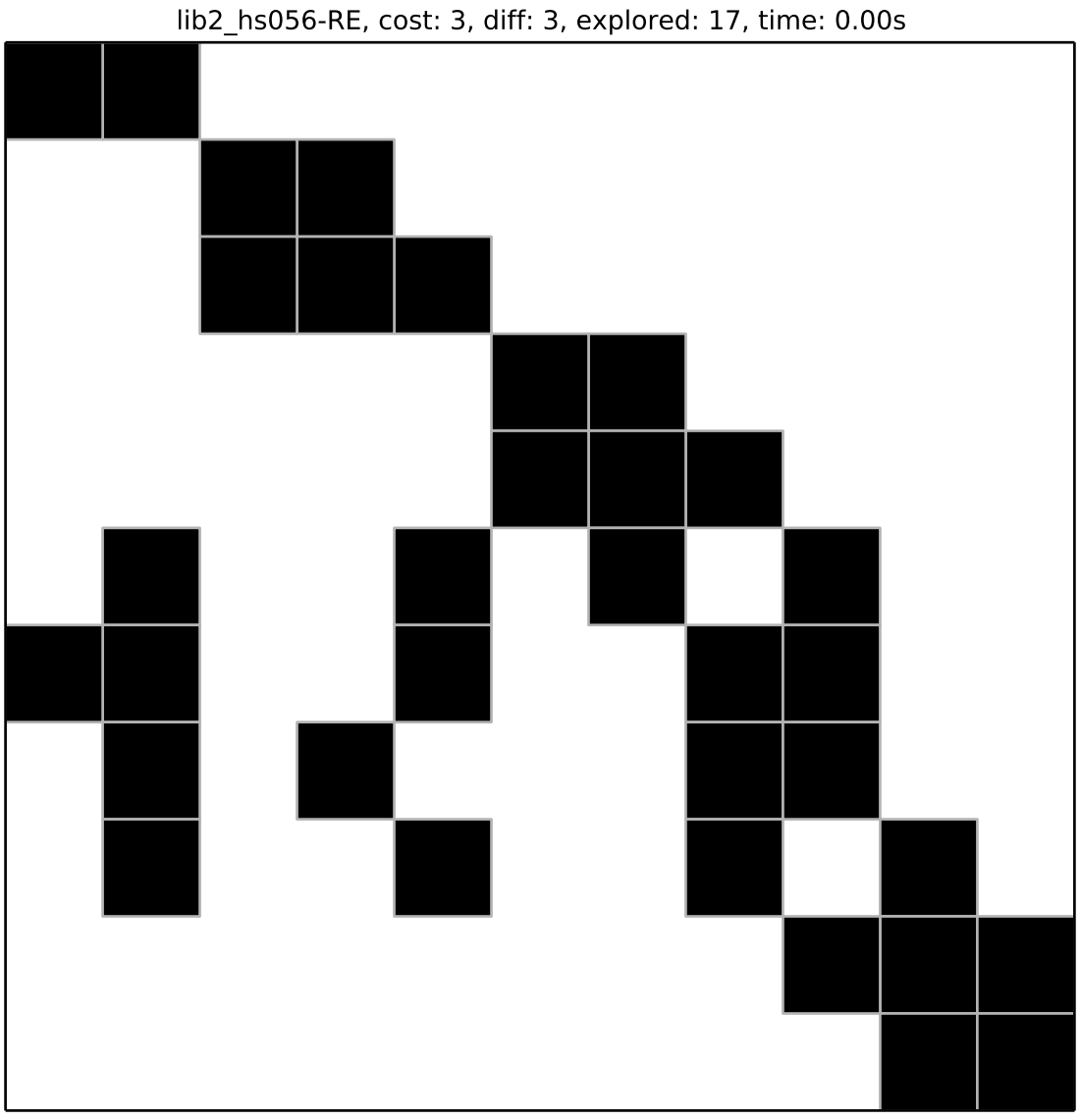
lib2_hs056-RE 11x11 (34) con: 4, var: 7

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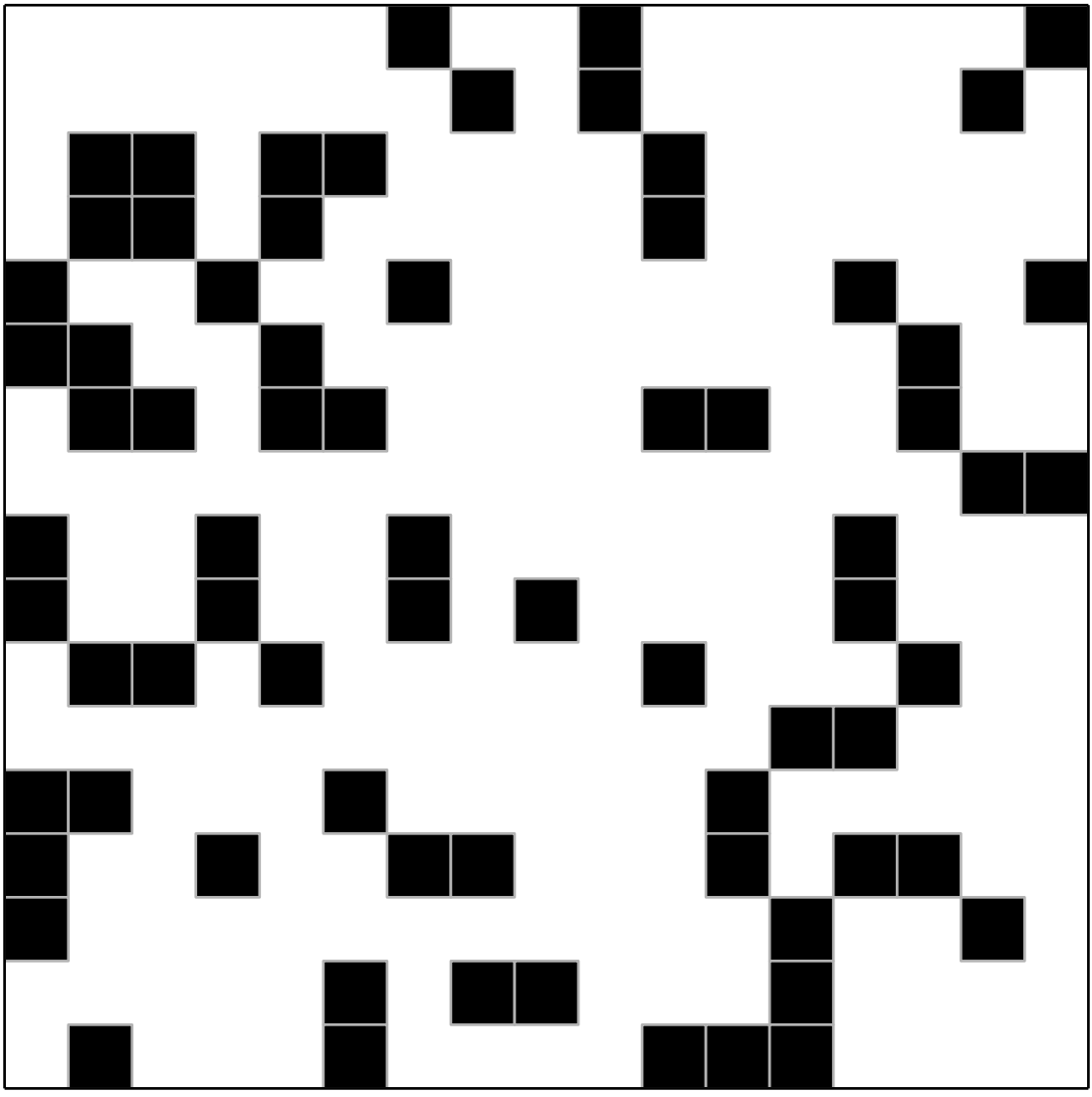
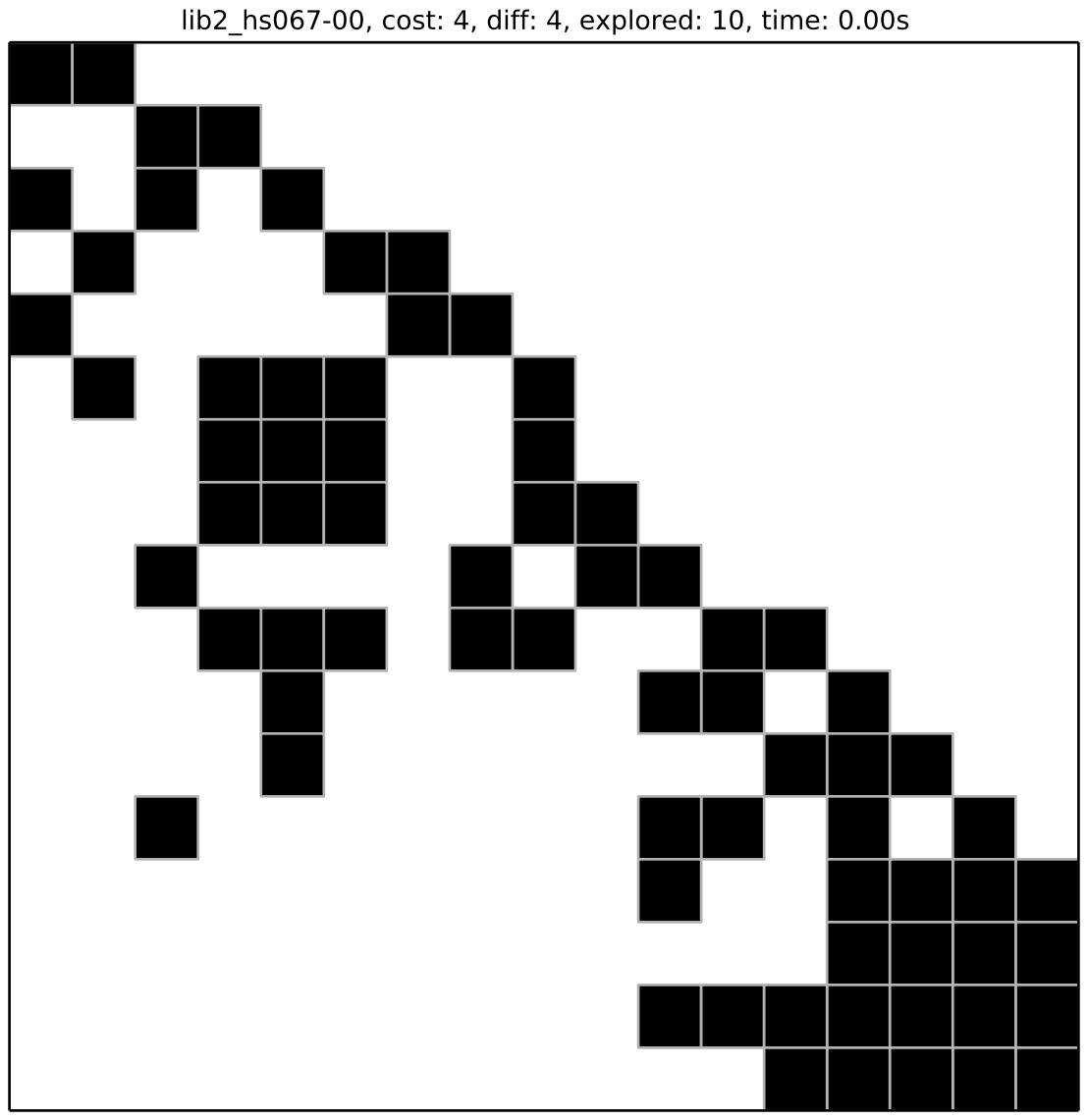
lib2_hs067-00 17x17 (72) con: 7, var: 10

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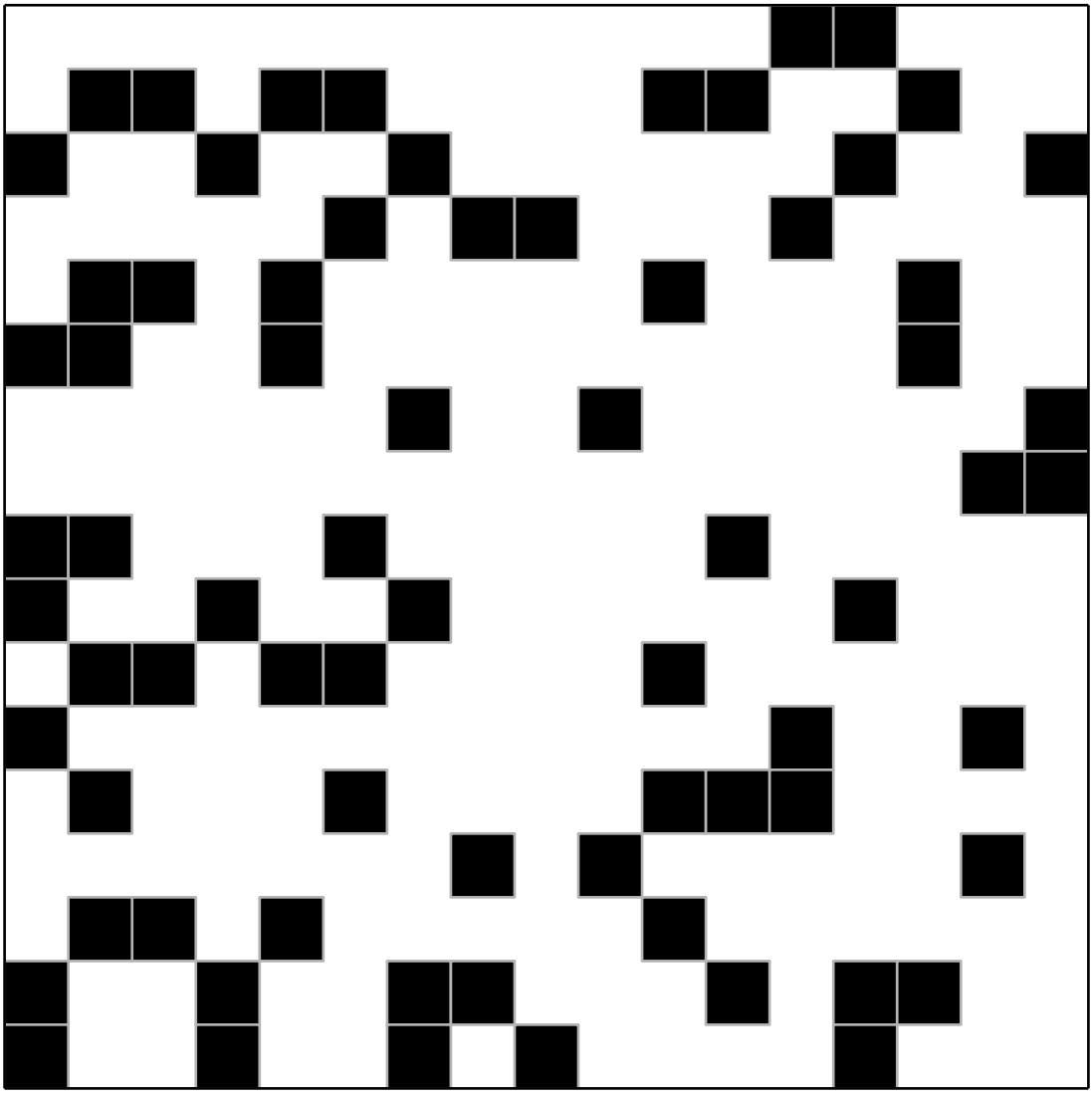
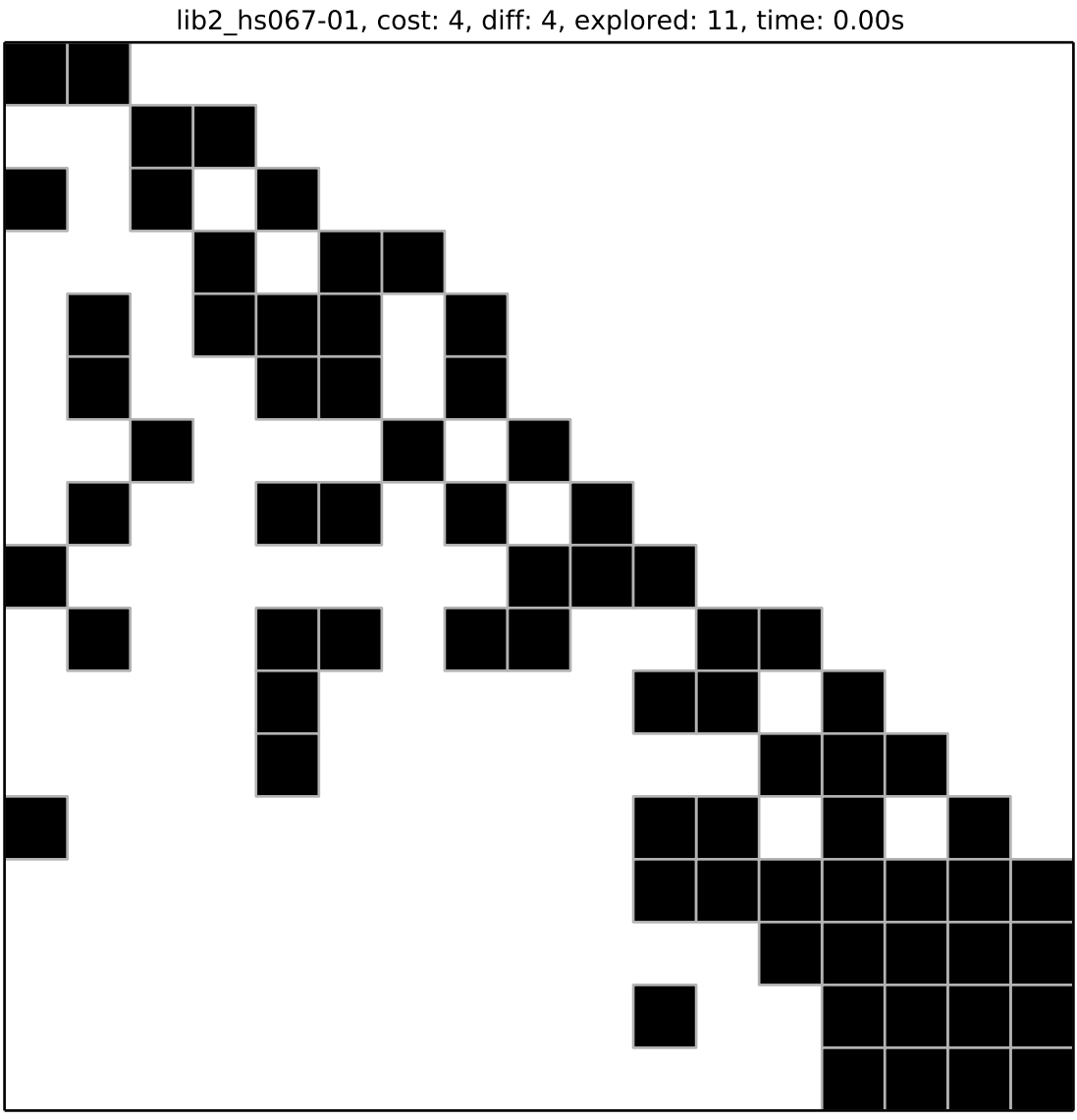
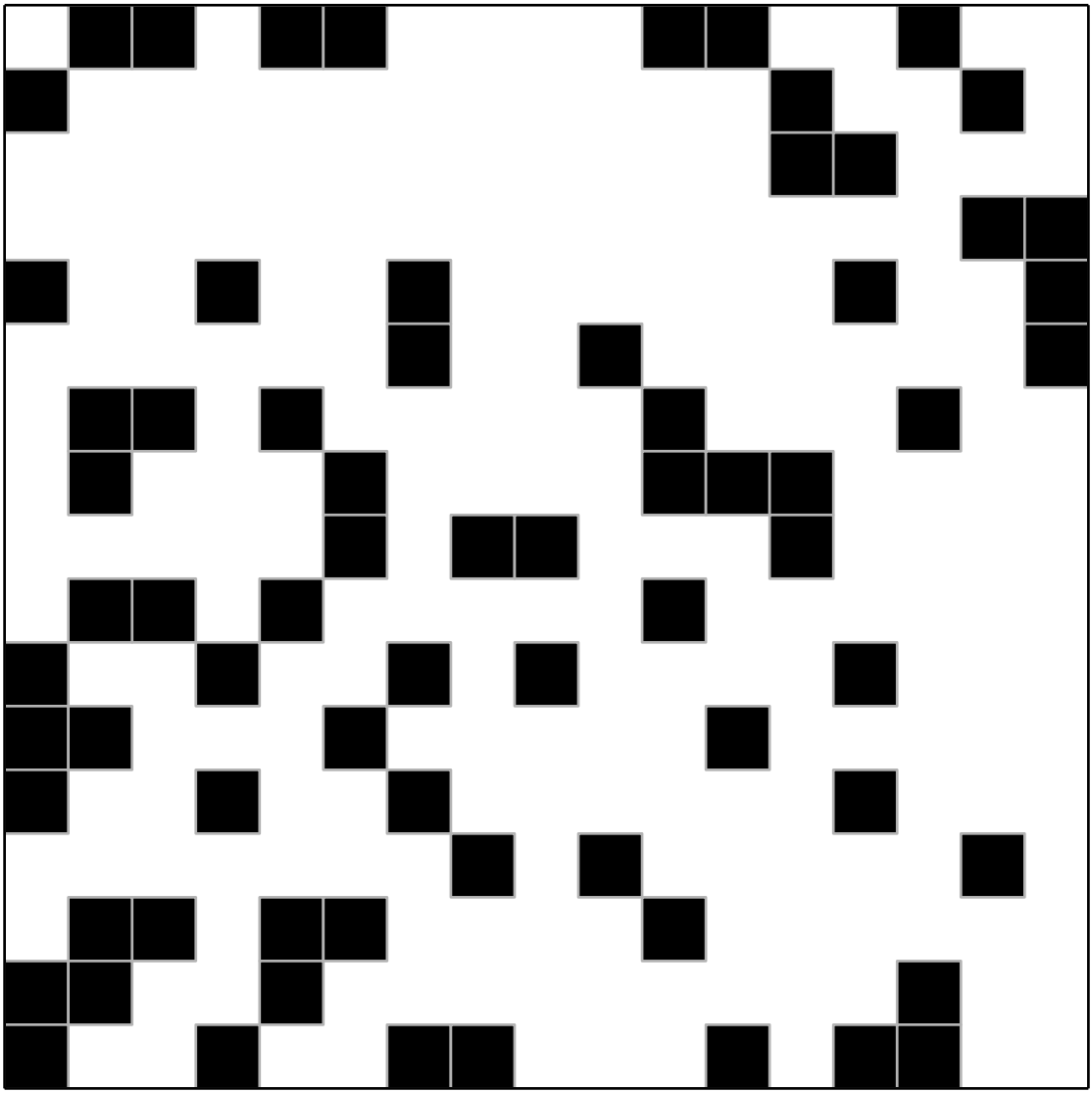
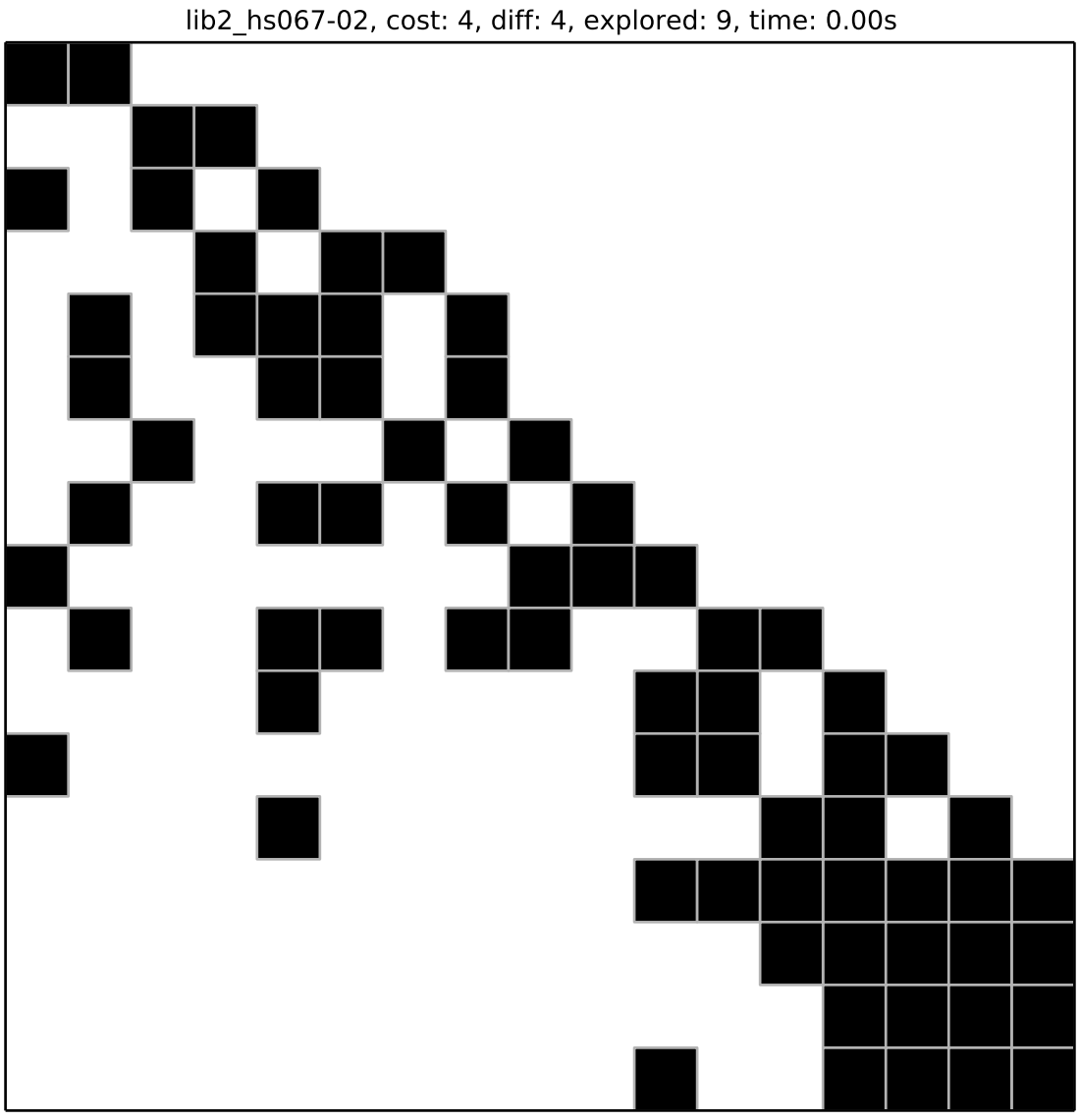
lib2_hs067-01 17x17 (72) con: 7, var: 10



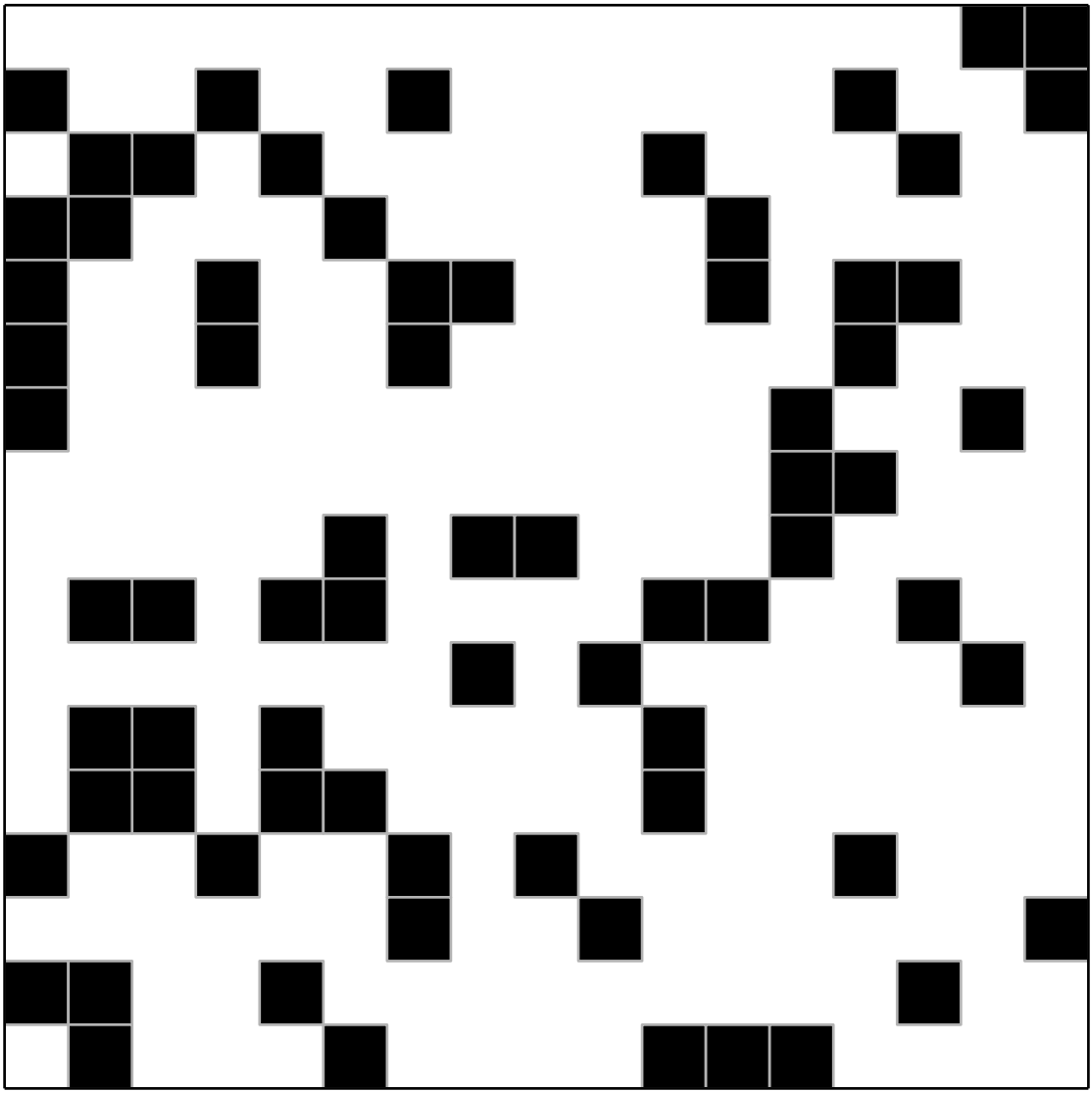

lib2_hs067-01, cost: 4, diff: 4, explored: 11, time: 0.00s

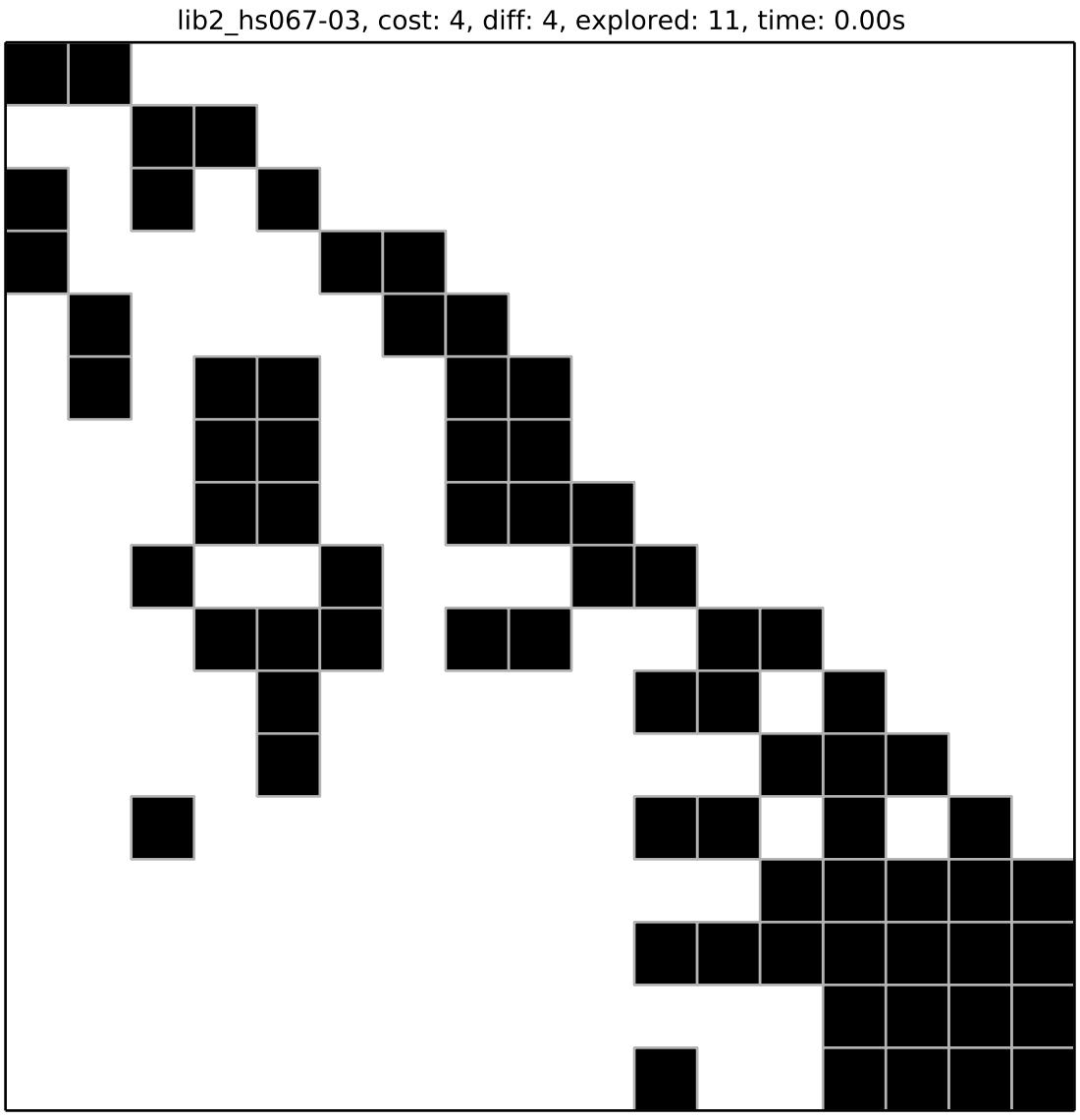
lib2_hs067-02 17x17 (72) con: 7, var: 10




lib2_hs067-02, cost: 4, diff: 4, explored: 9, time: 0.00s

lib2_hs067-03 17x17 (72) con: 7, var: 10

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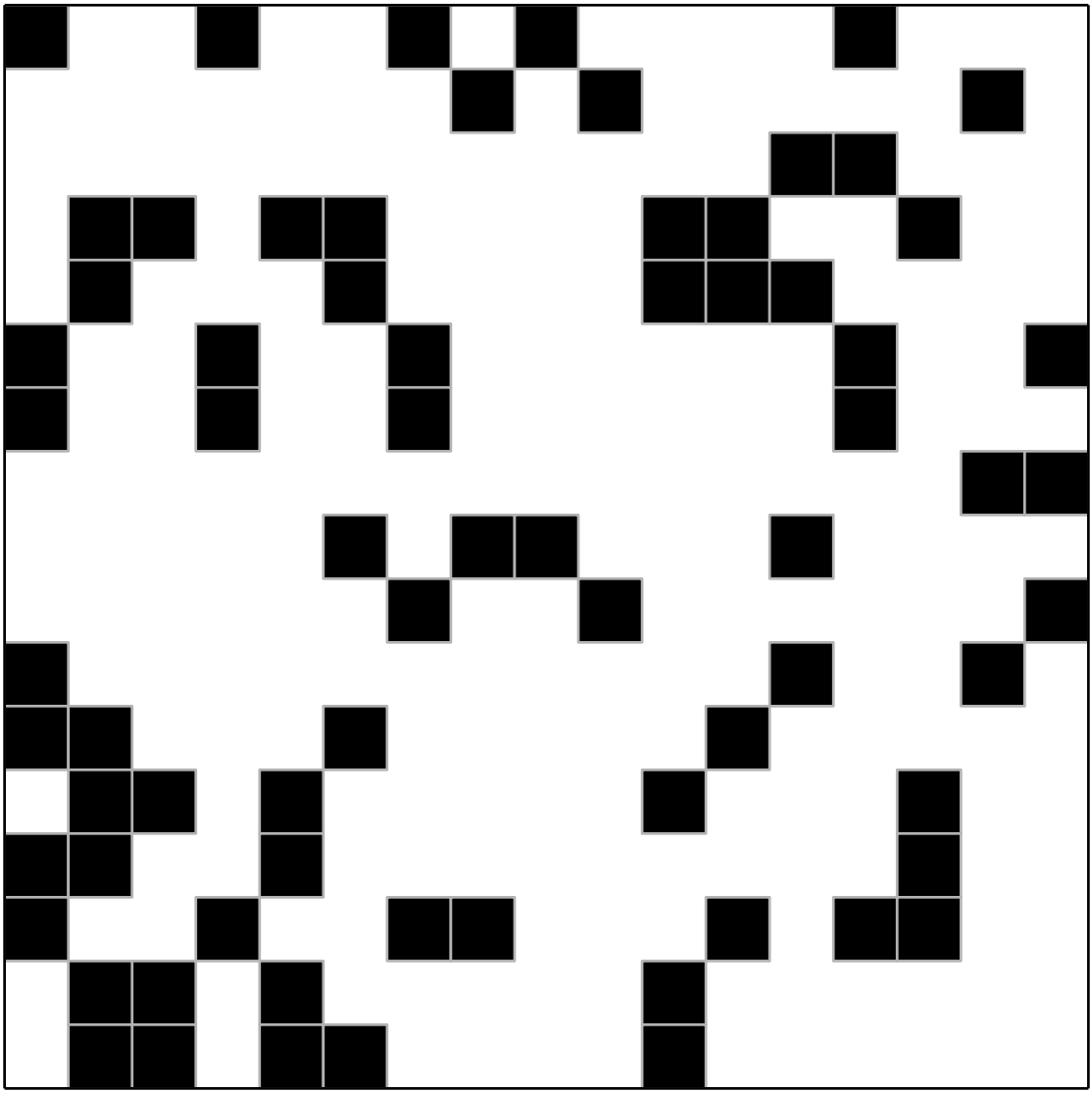
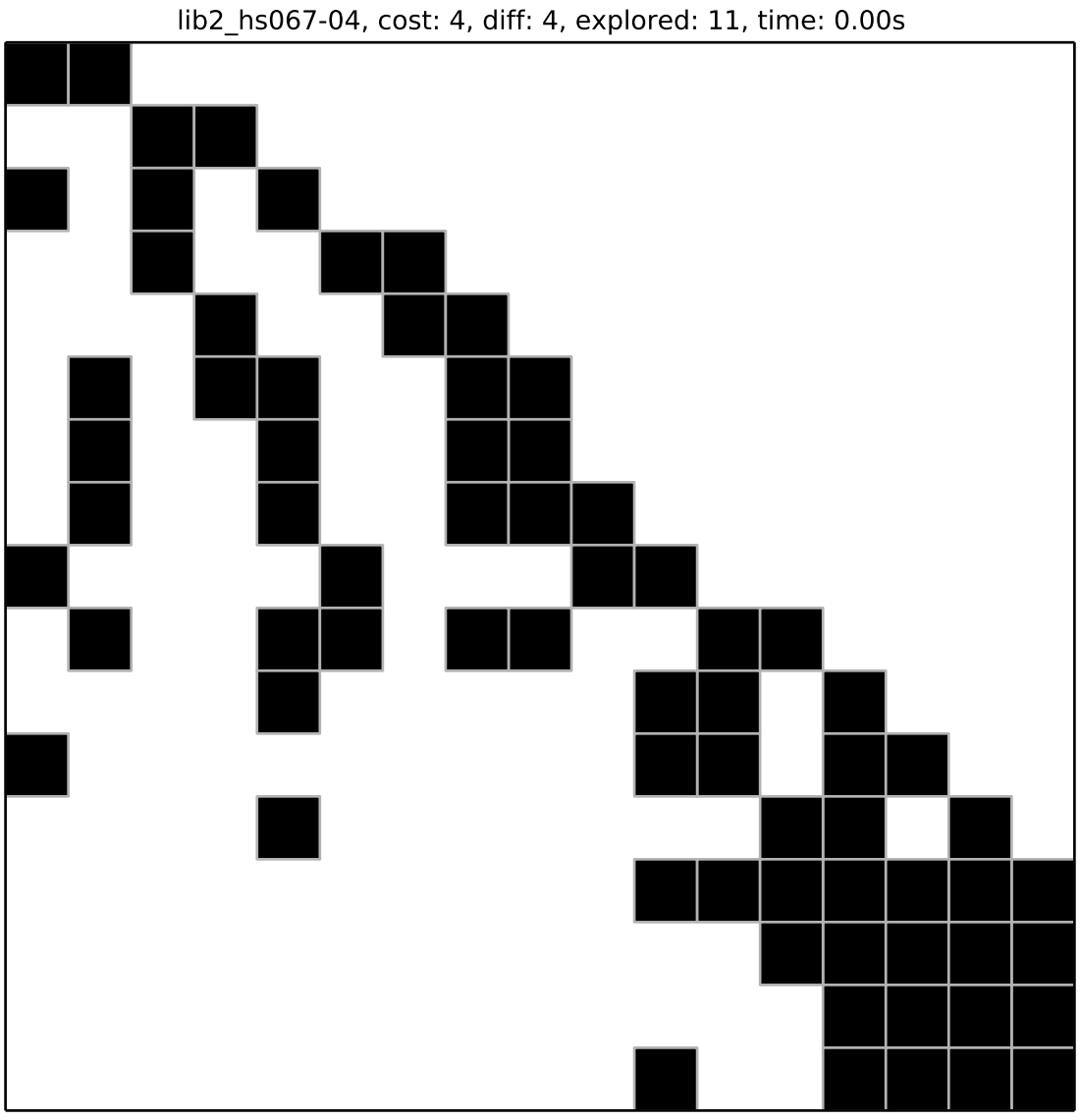
lib2_hs067-04 17x17 (72) con: 7, var: 10

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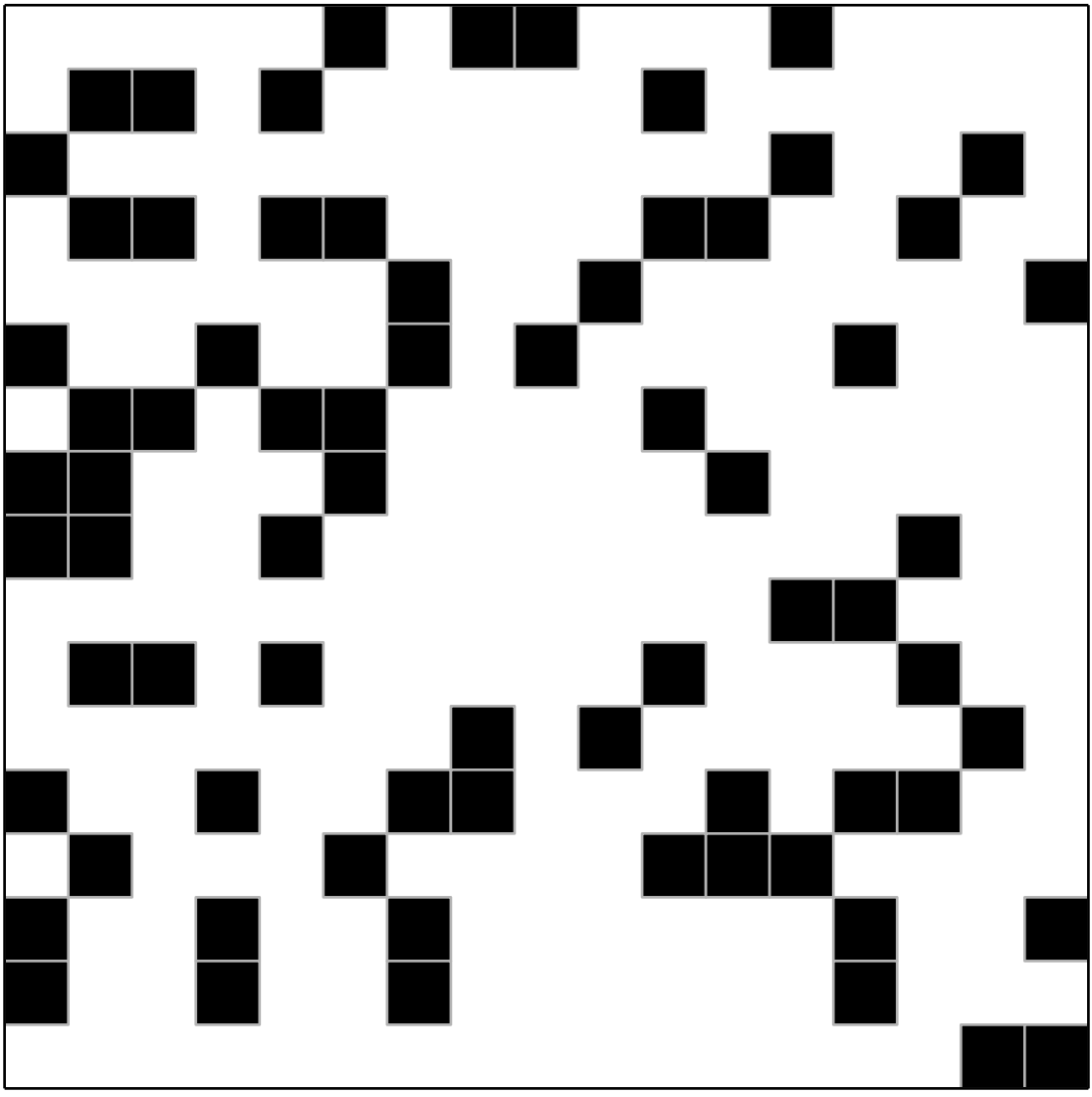
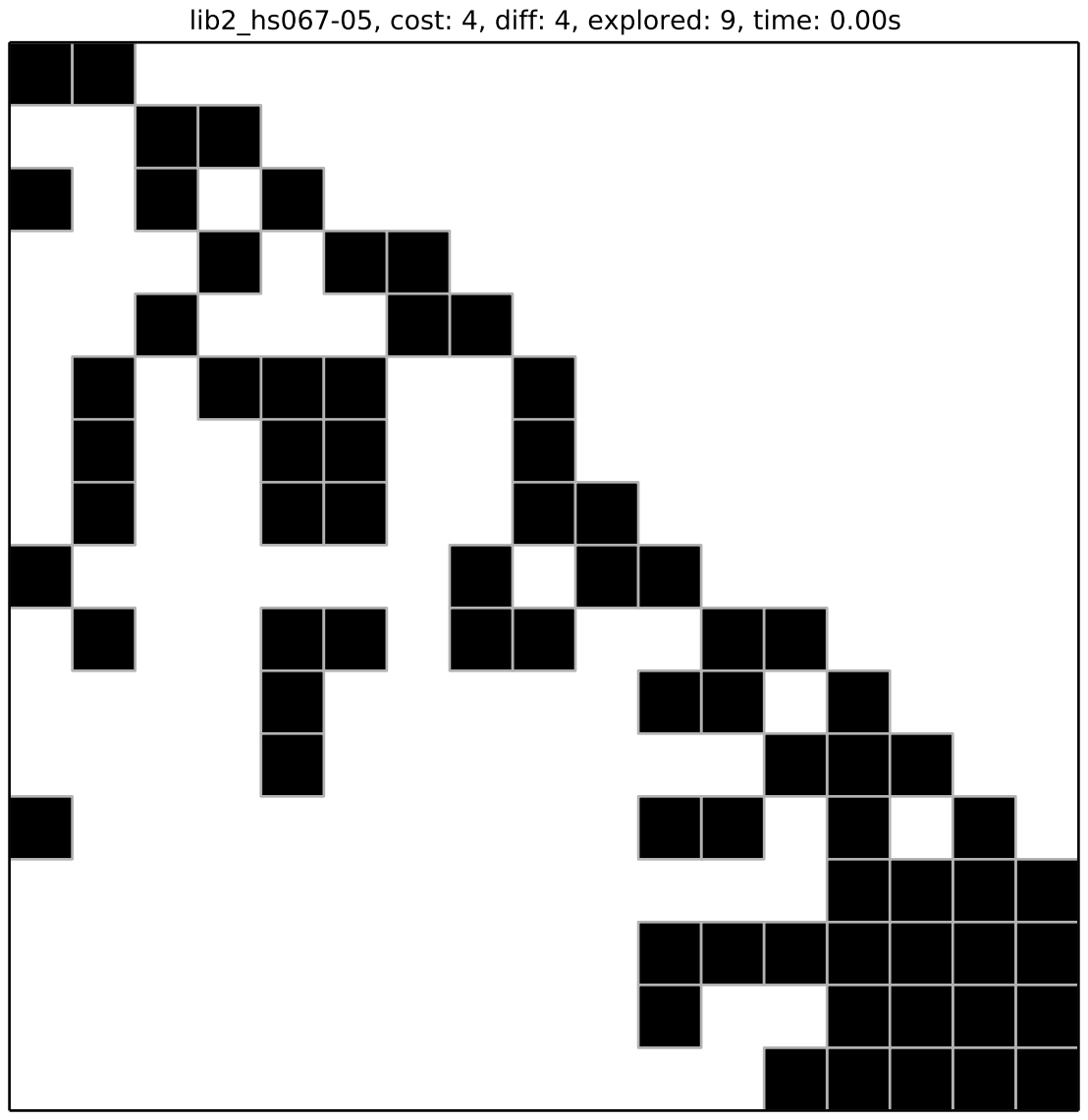
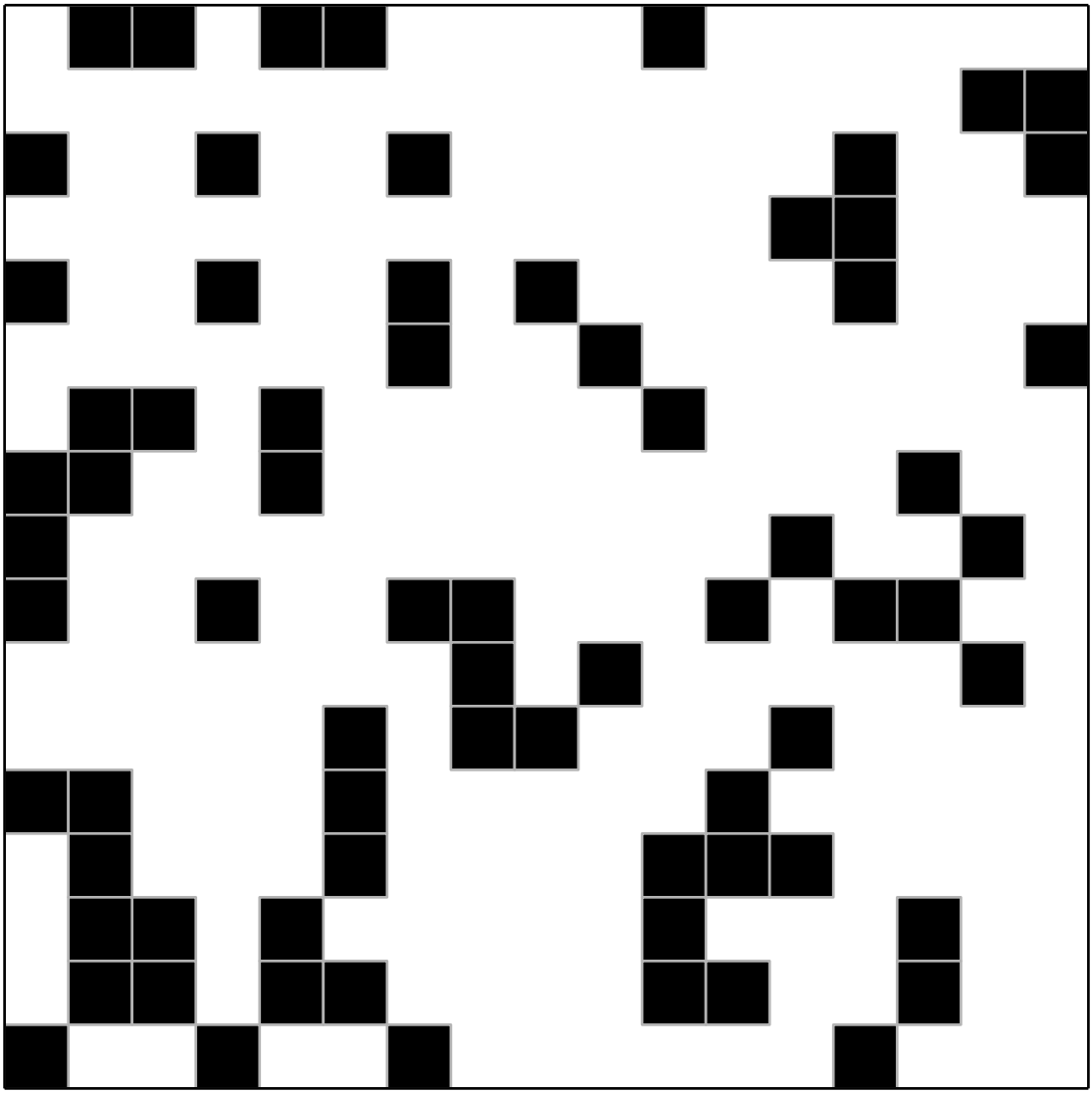
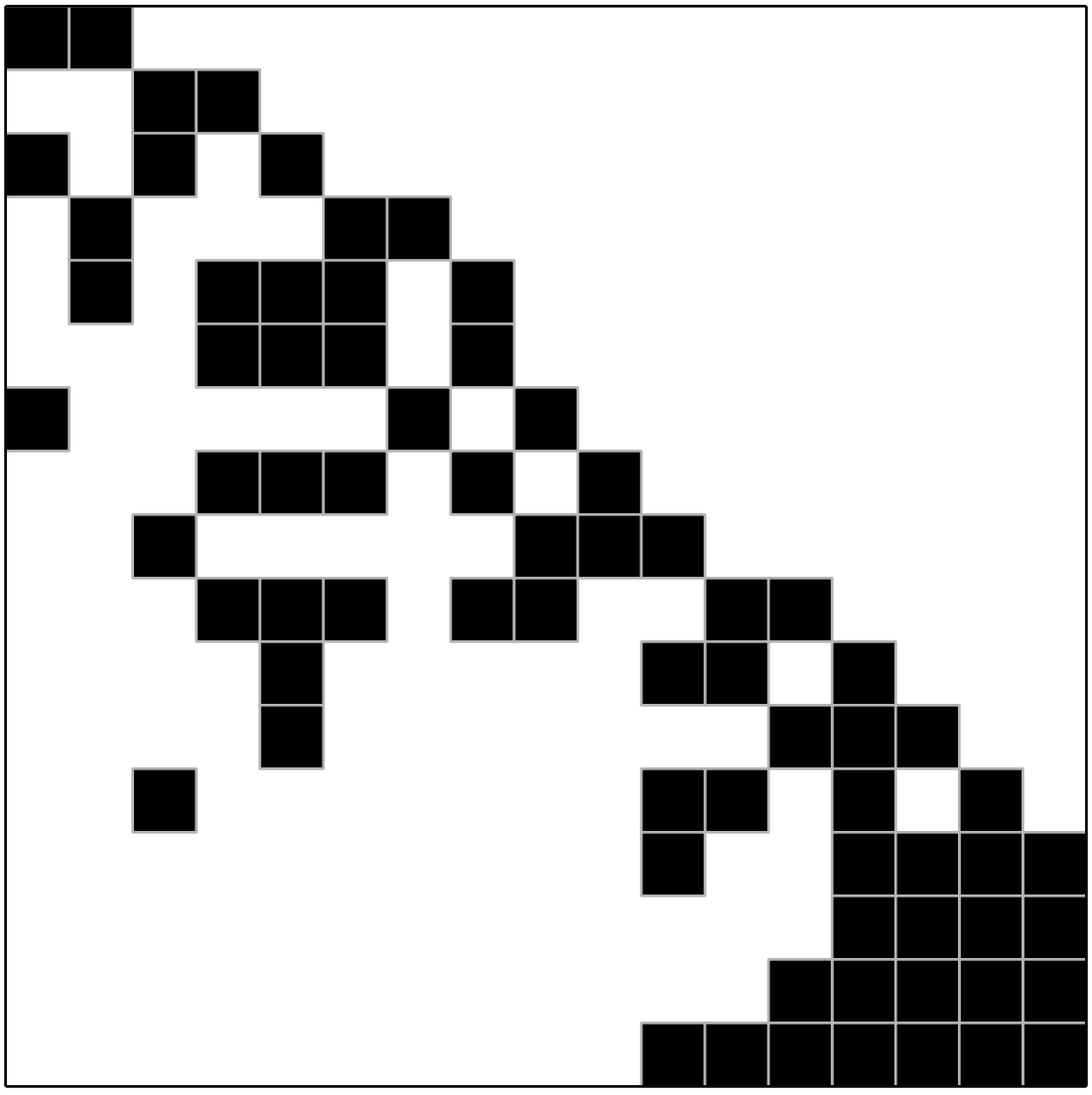
lib2_hs067-05 17x17 (72) con: 7, var: 10




lib2_hs067-05, cost: 4, diff: 4, explored: 9, time: 0.00s

lib2_hs067-06 17x17 (72) con: 7, var: 10

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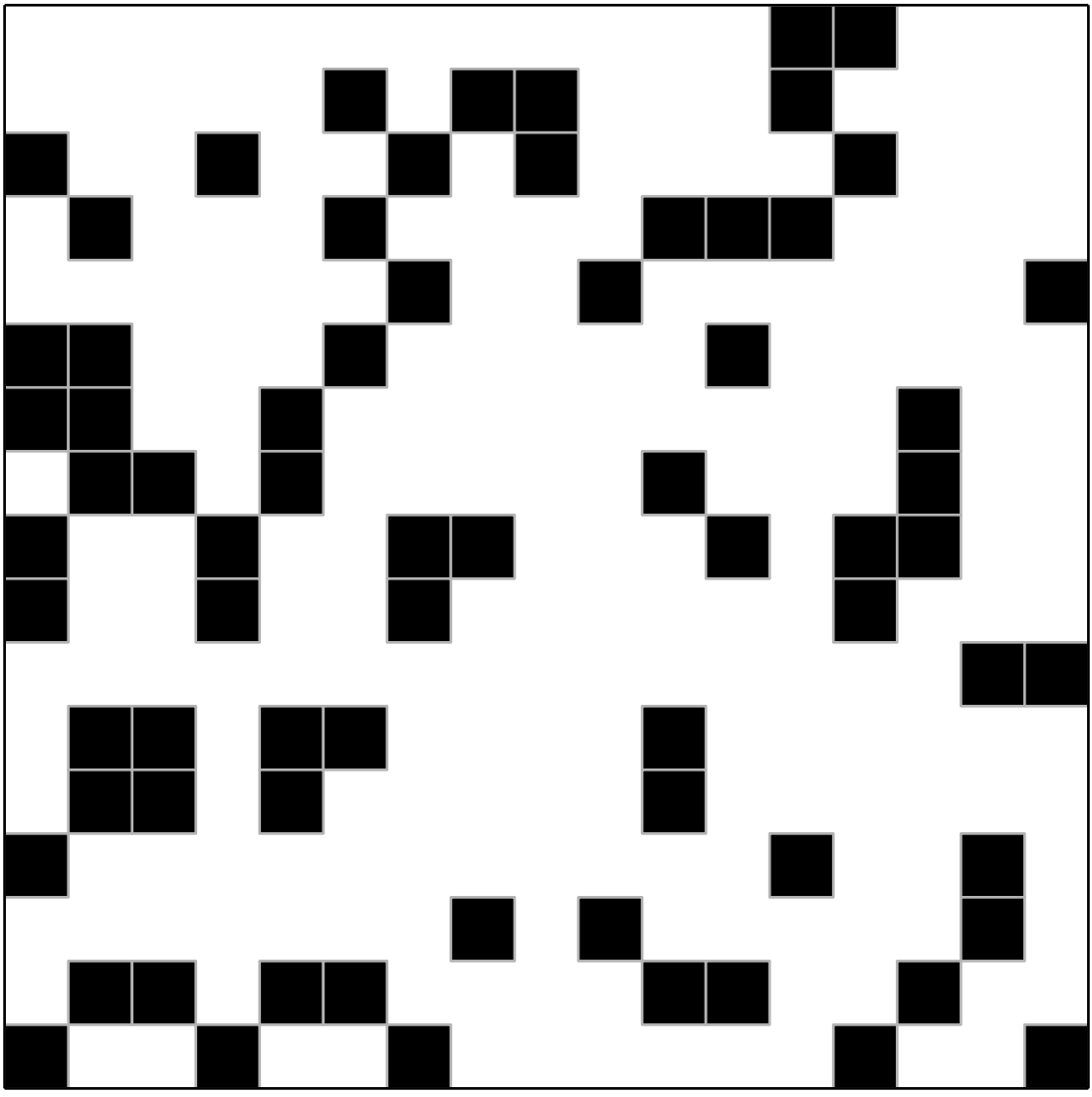
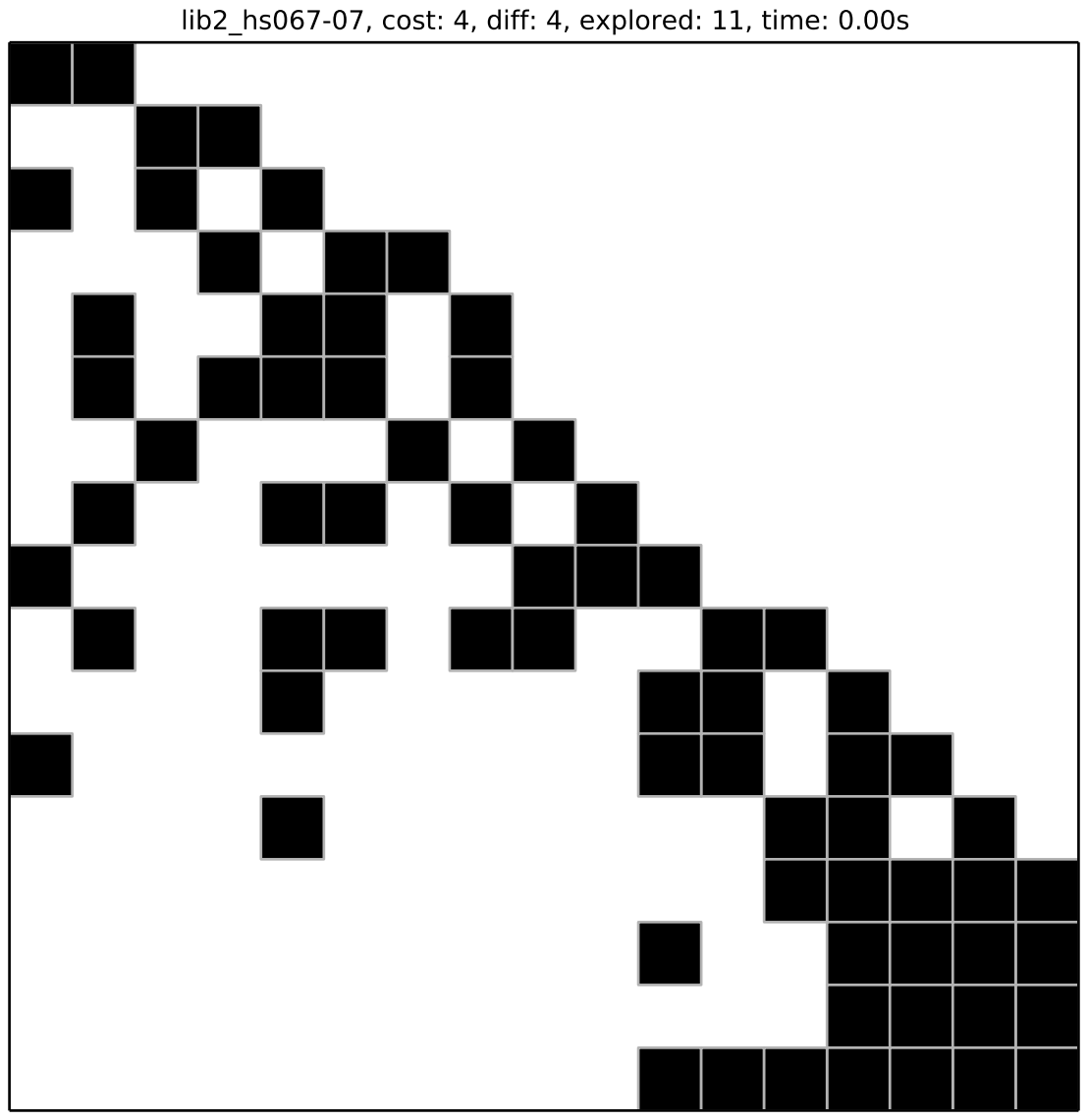
lib2_hs067-07 17x17 (72) con: 7, var: 10

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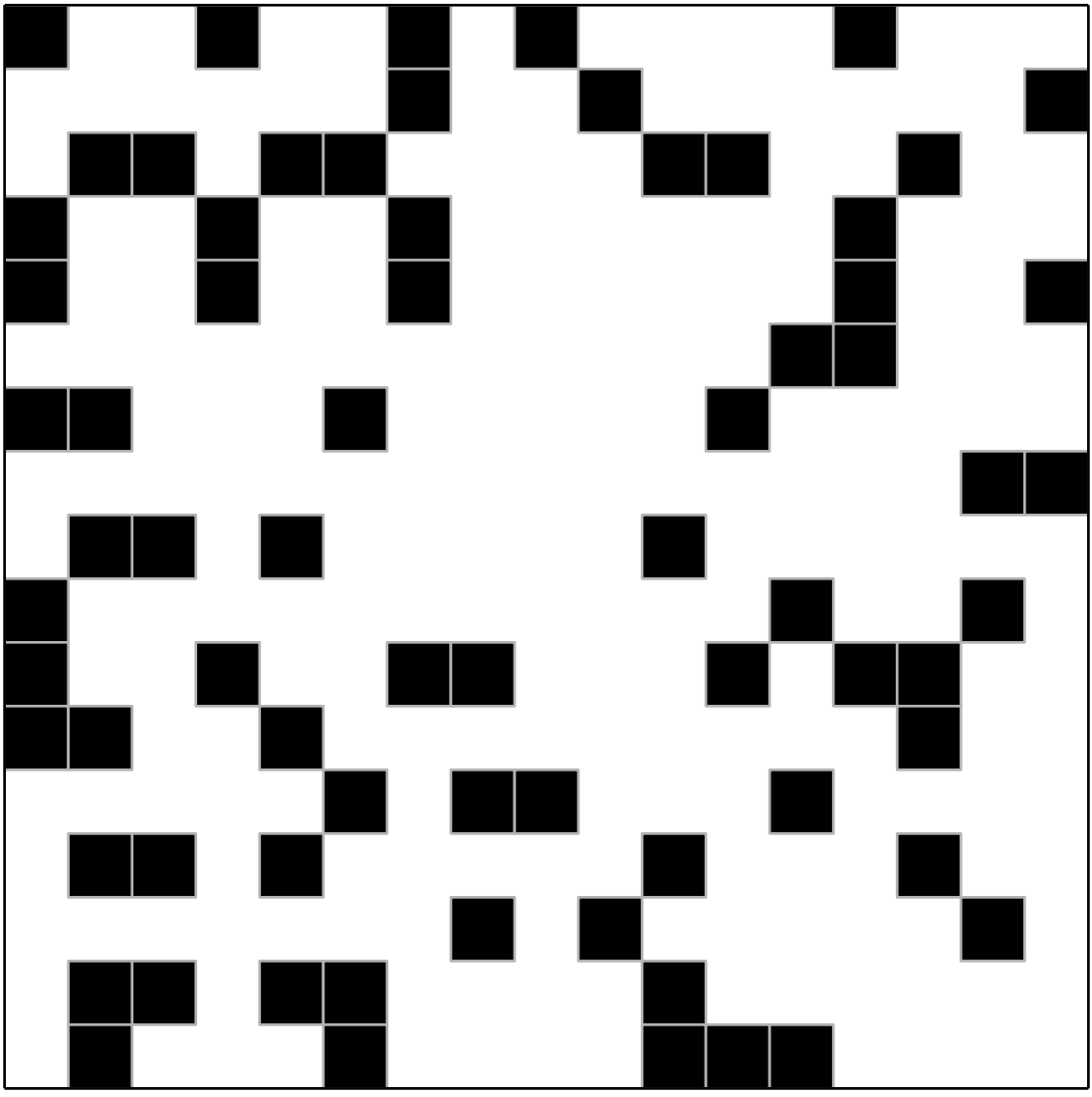
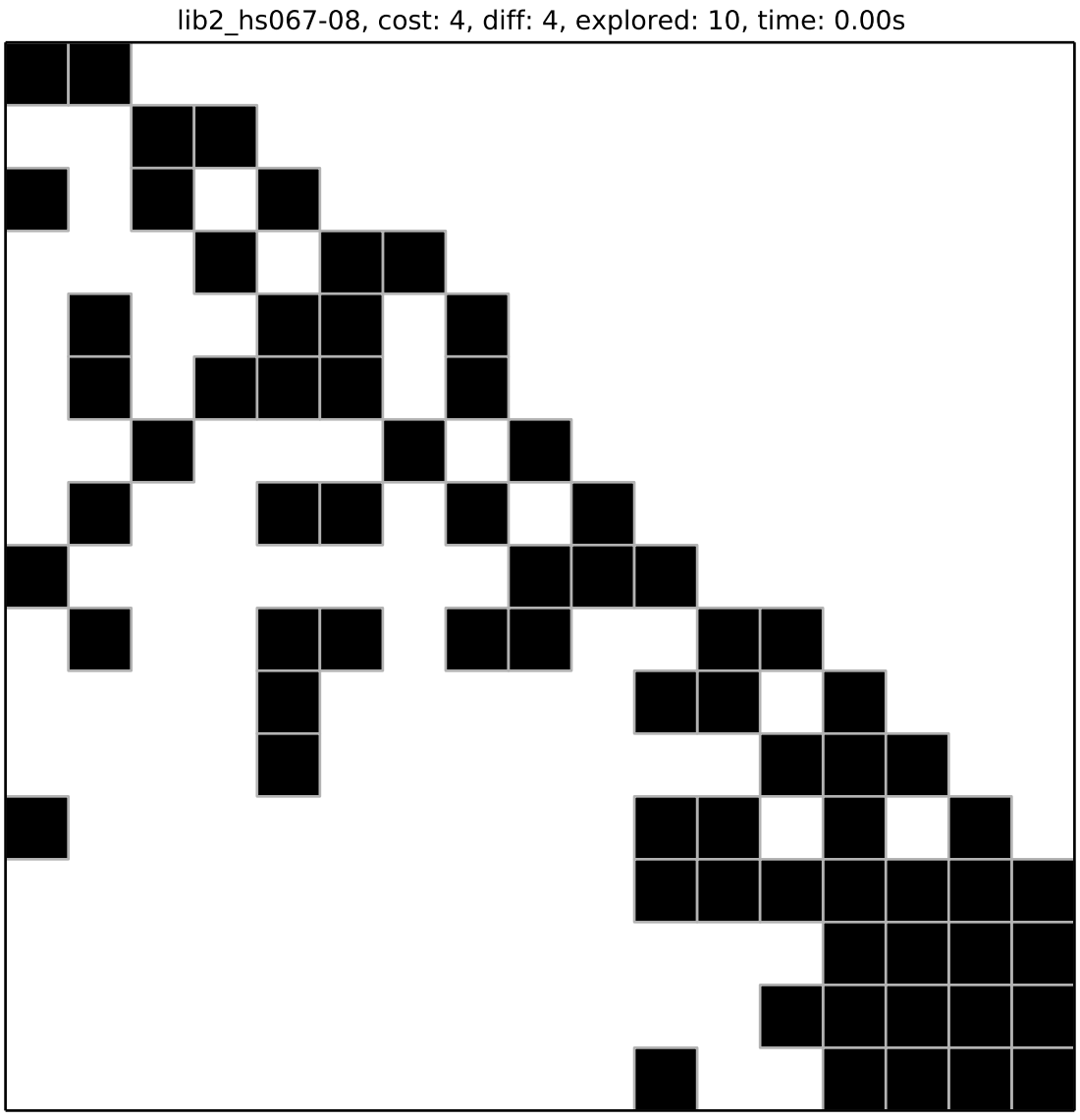
lib2_hs067-08 17x17 (72) con: 7, var: 10

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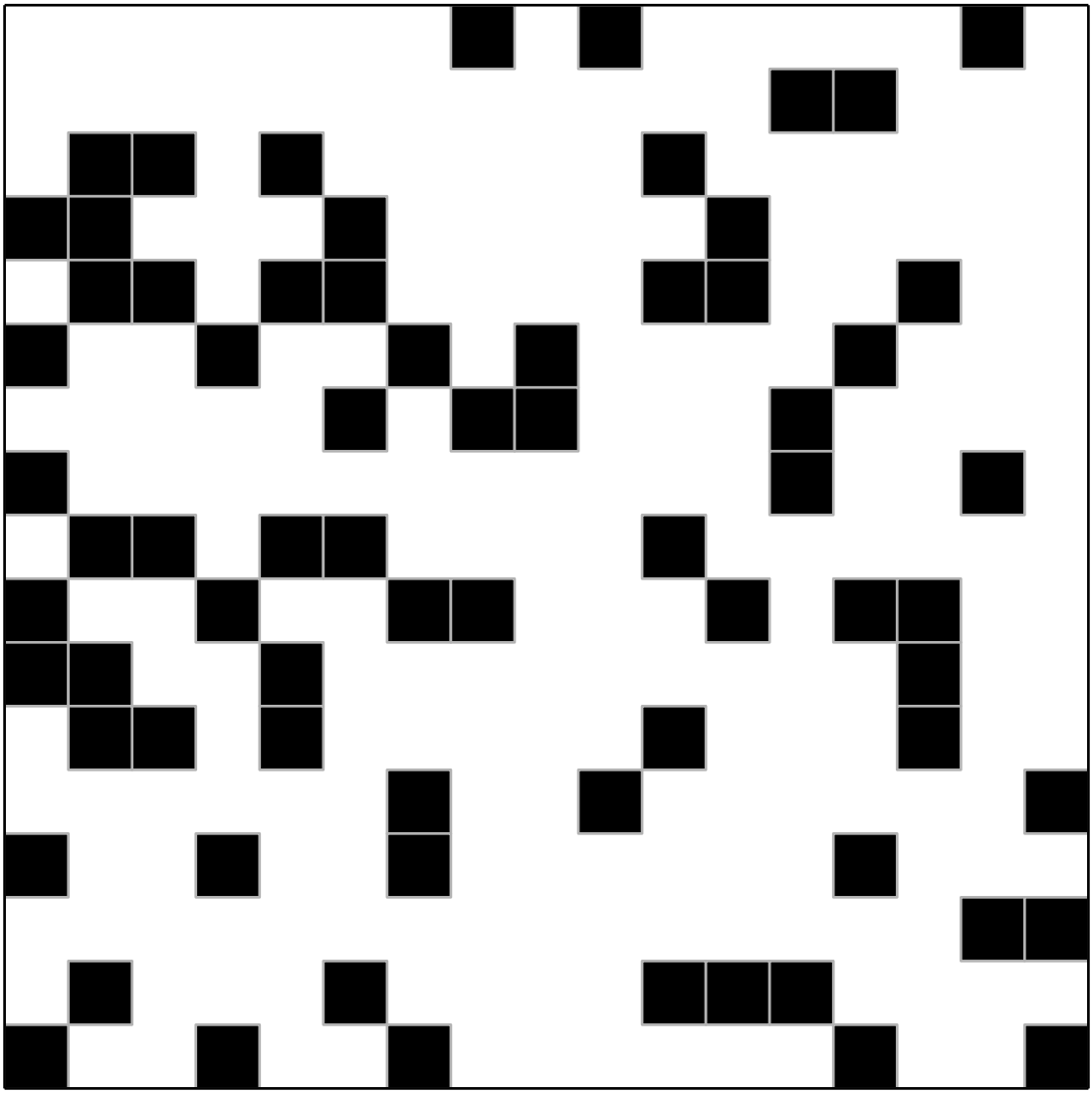
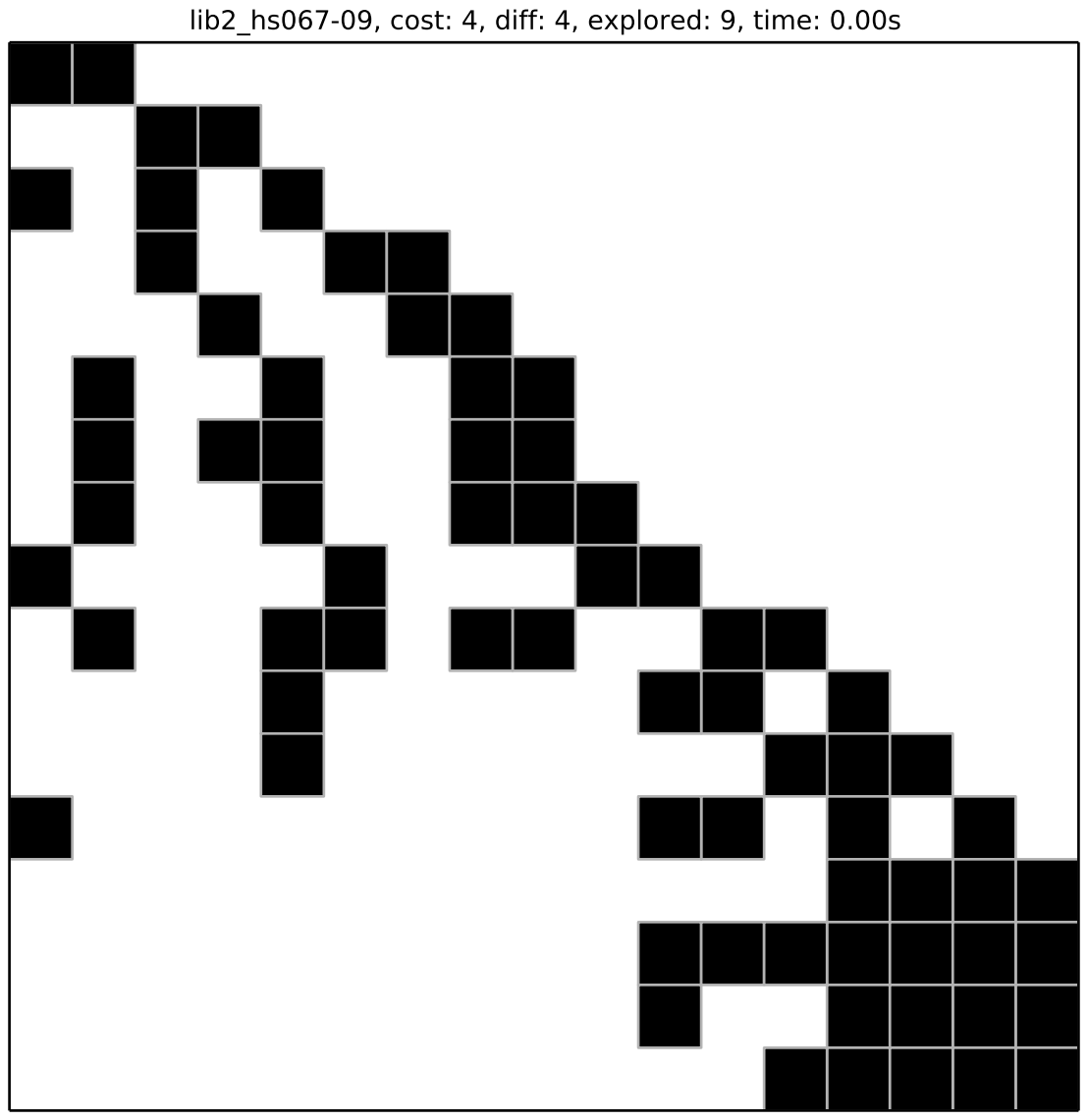
lib2_hs067-09 17x17 (72) con: 7, var: 10

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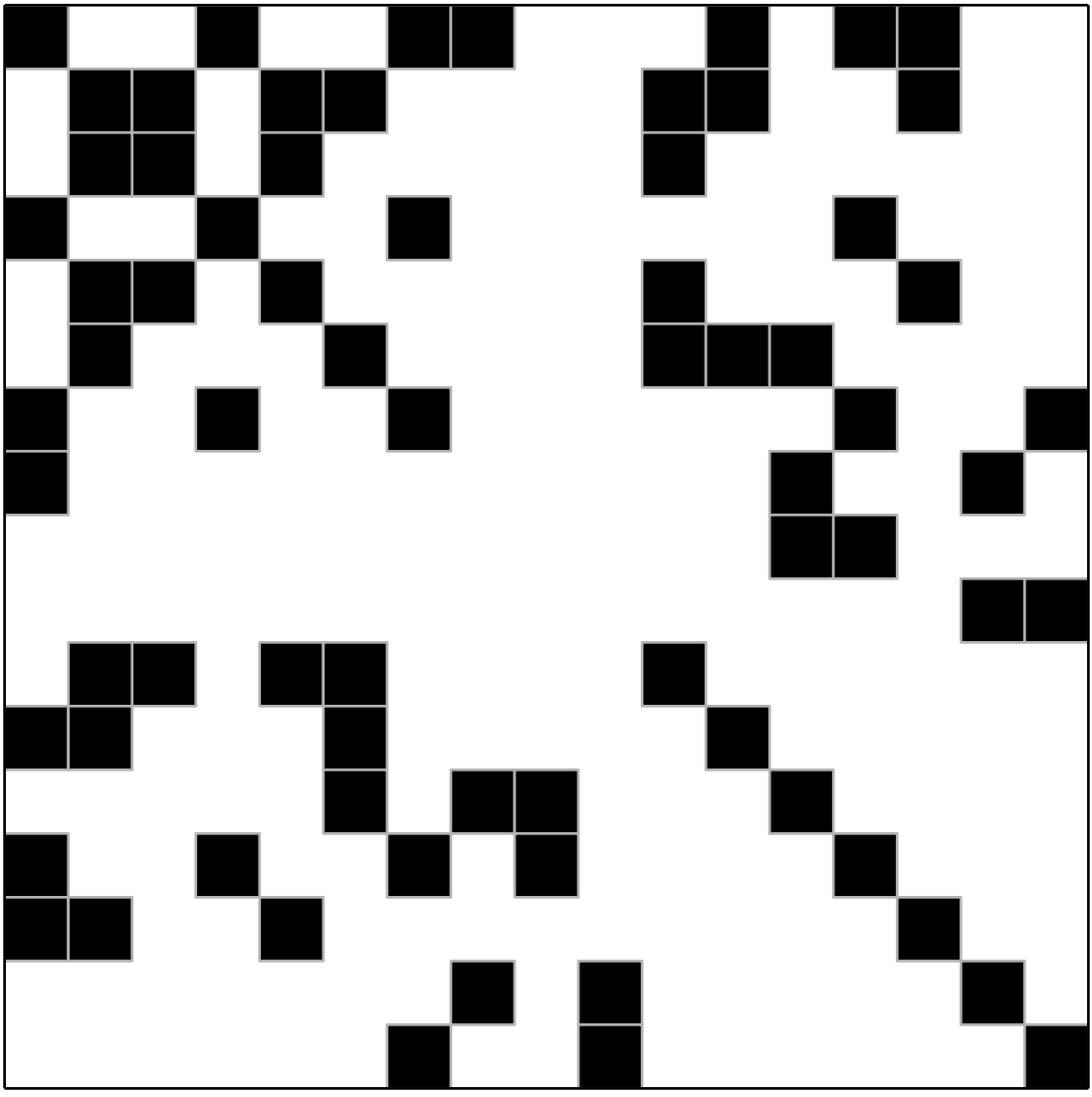
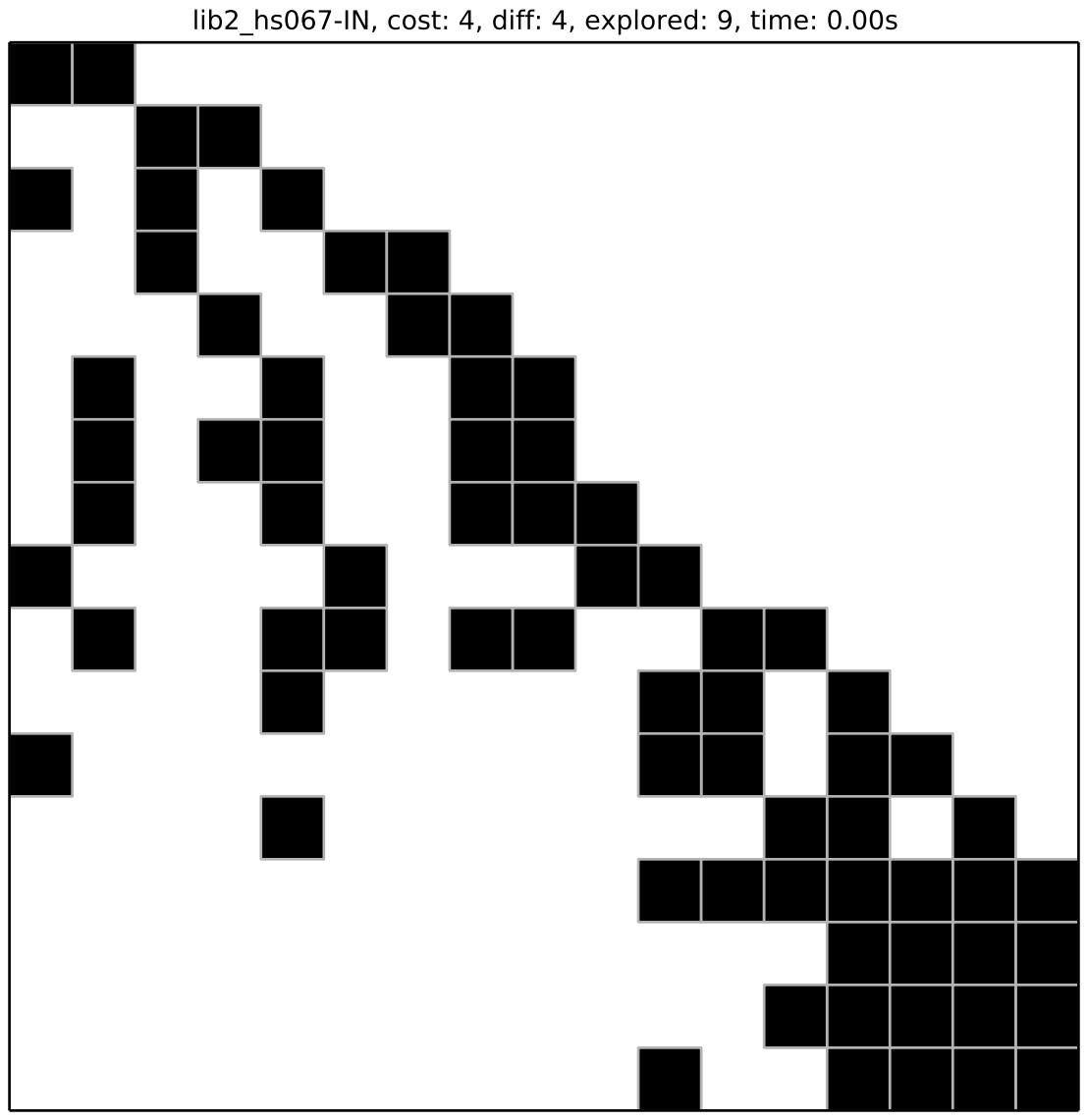
lib2_hs067-IN 17x17 (72) con: 7, var: 10

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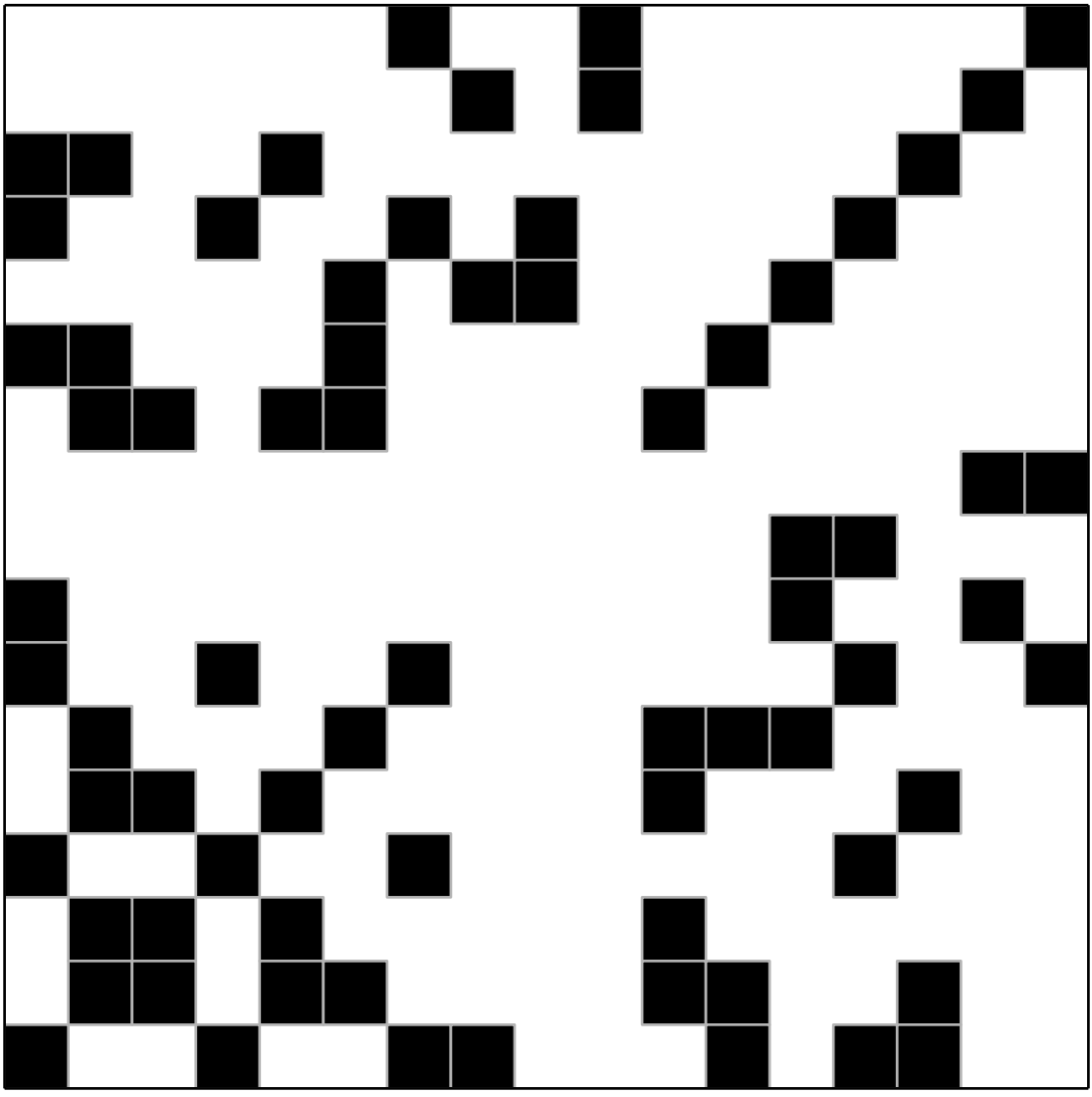
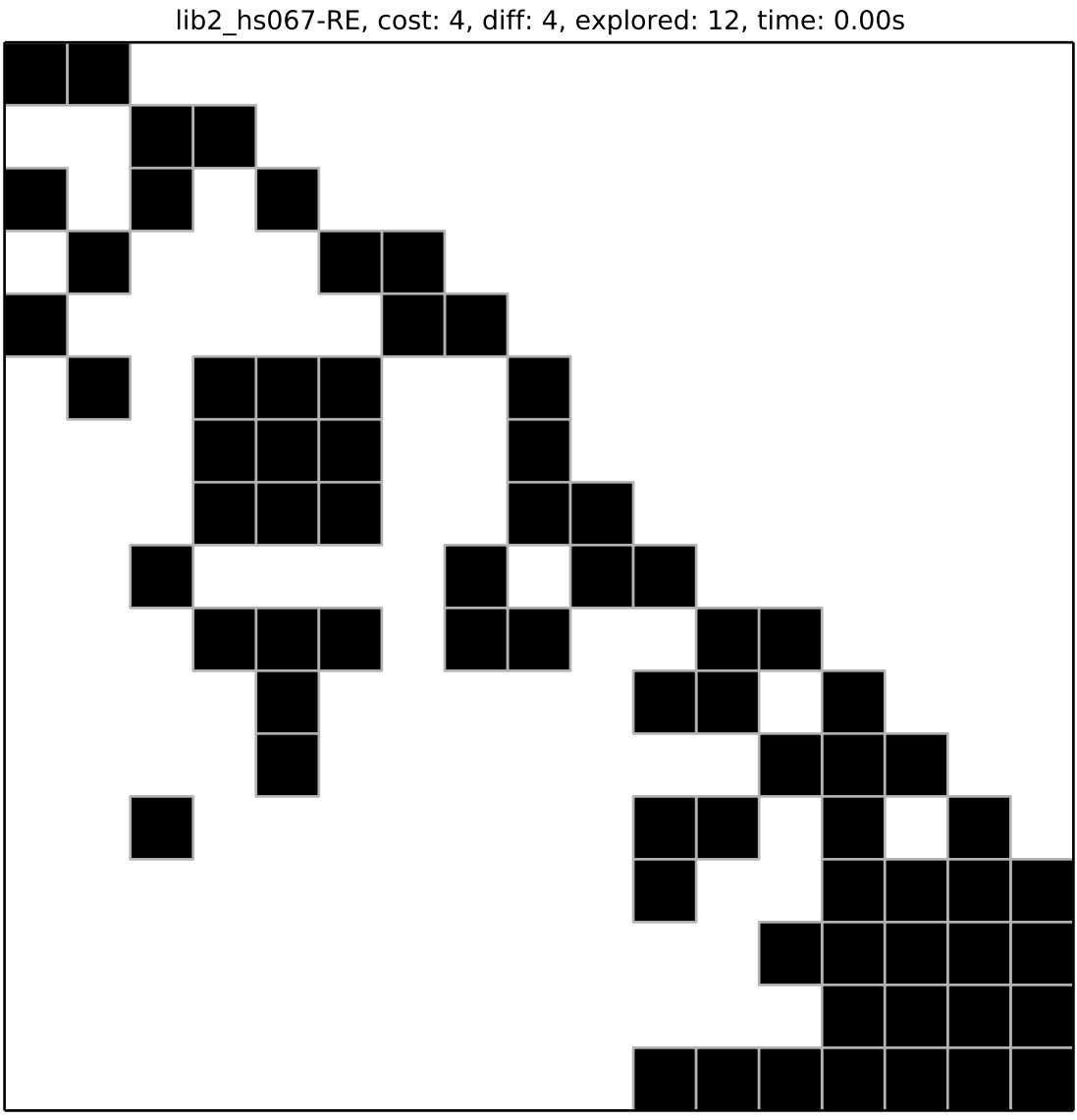
lib2_hs067-RE 17x17 (72) con: 7, var: 10

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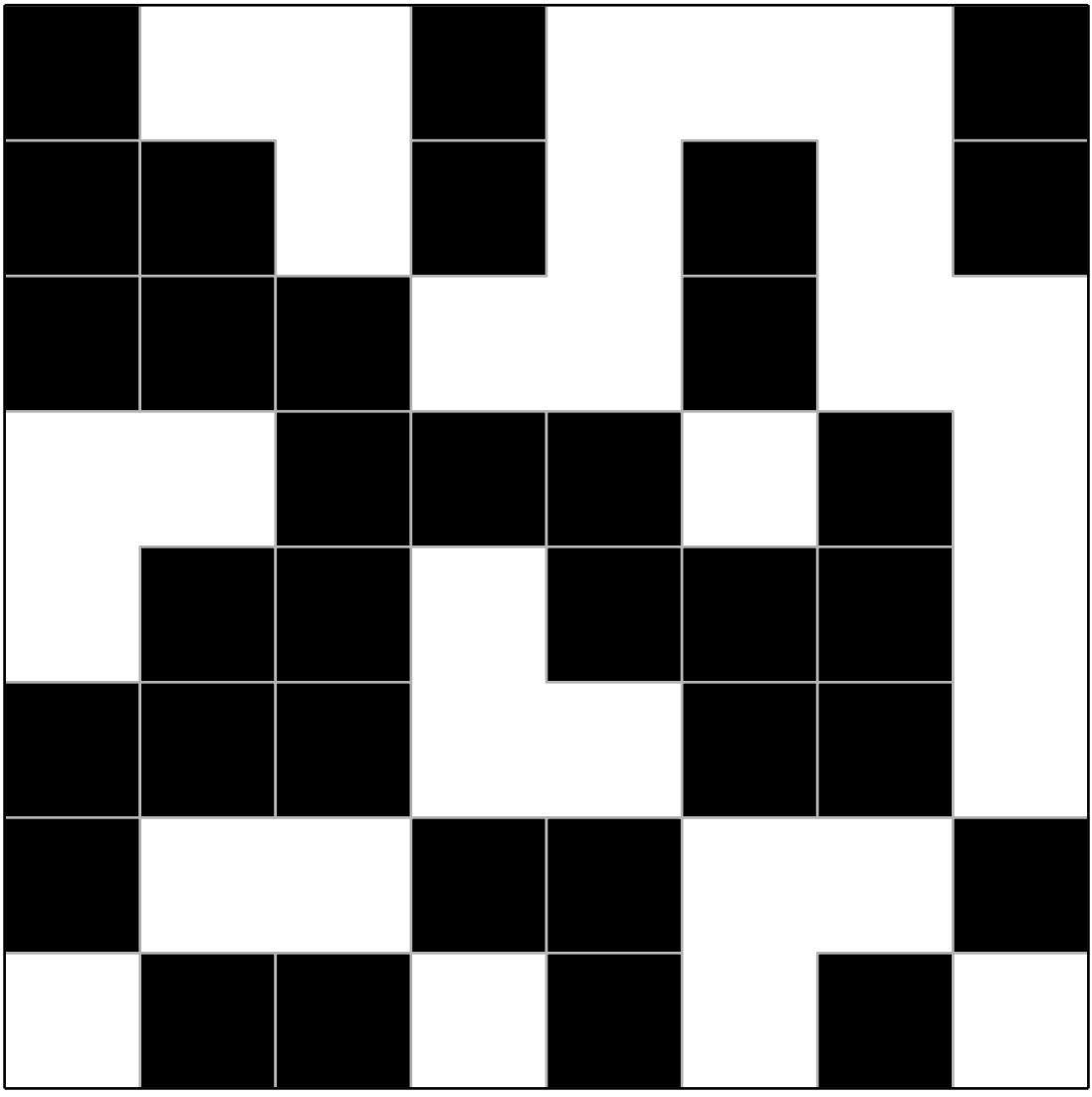
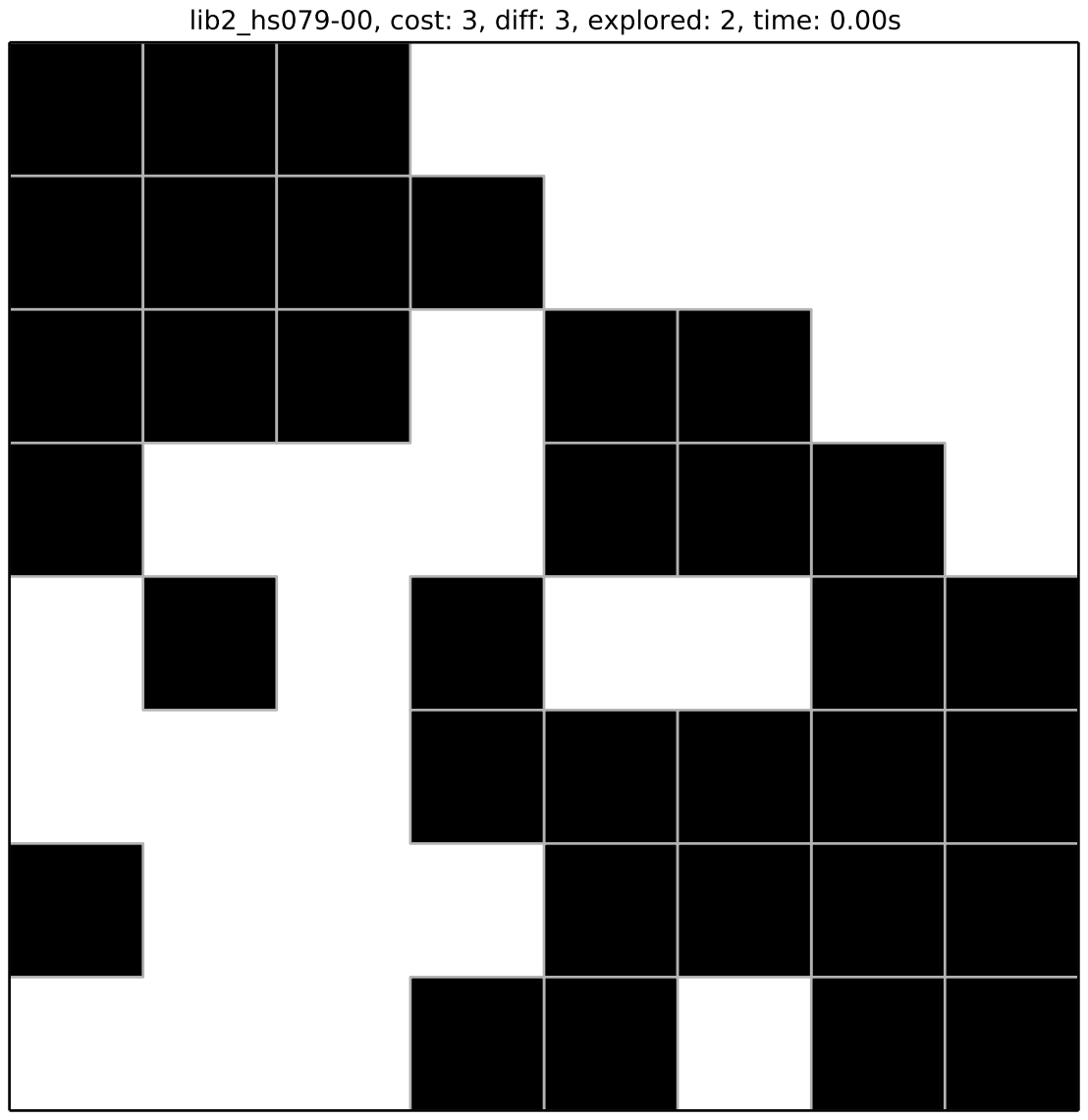
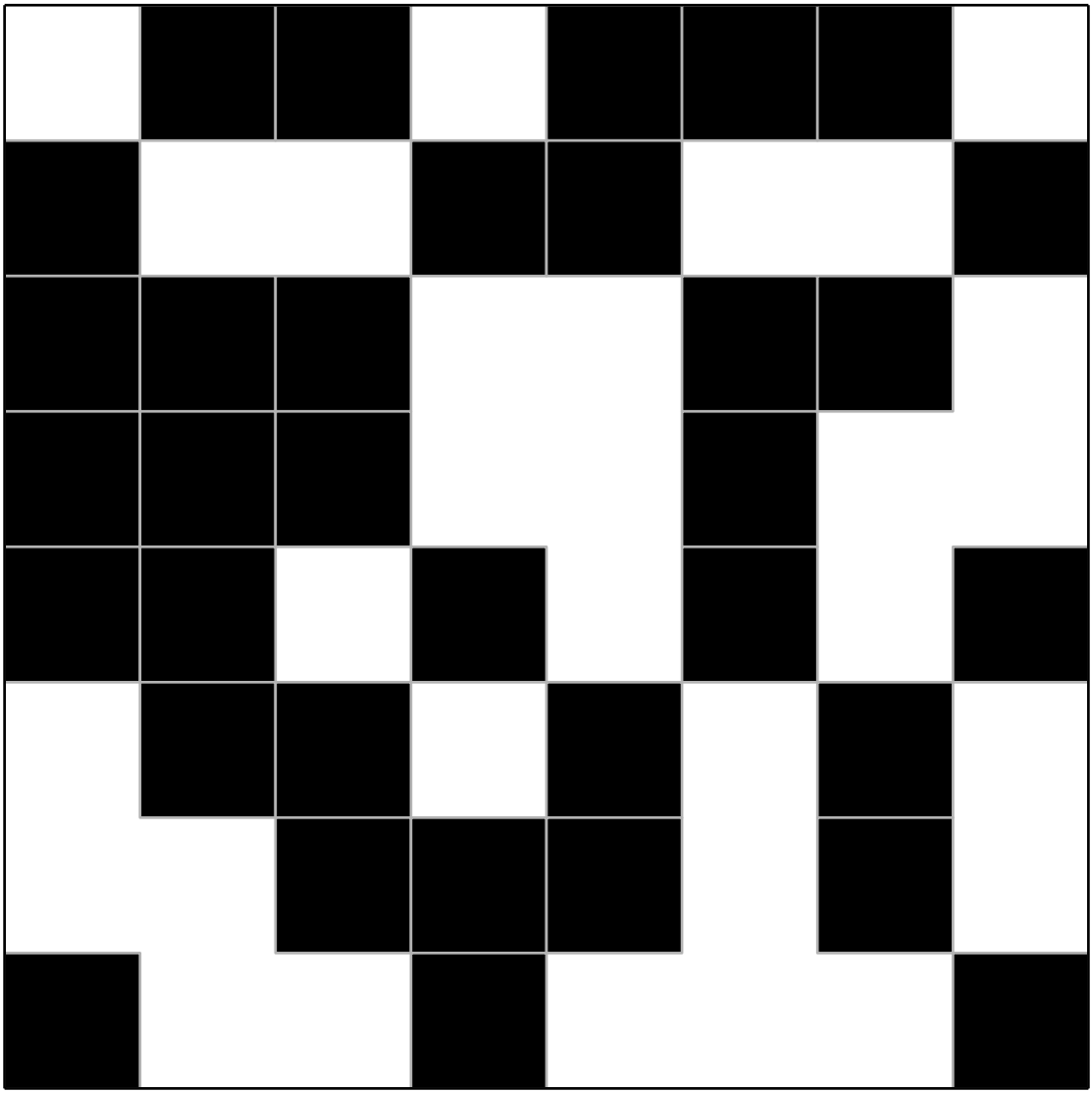
lib2_hs079-00 8x8 (34) con: 3, var: 5




lib2_hs079-00, cost: 3, diff: 3, explored: 2, time: 0.00s

lib2_hs079-01 8x8 (34) con: 3, var: 5



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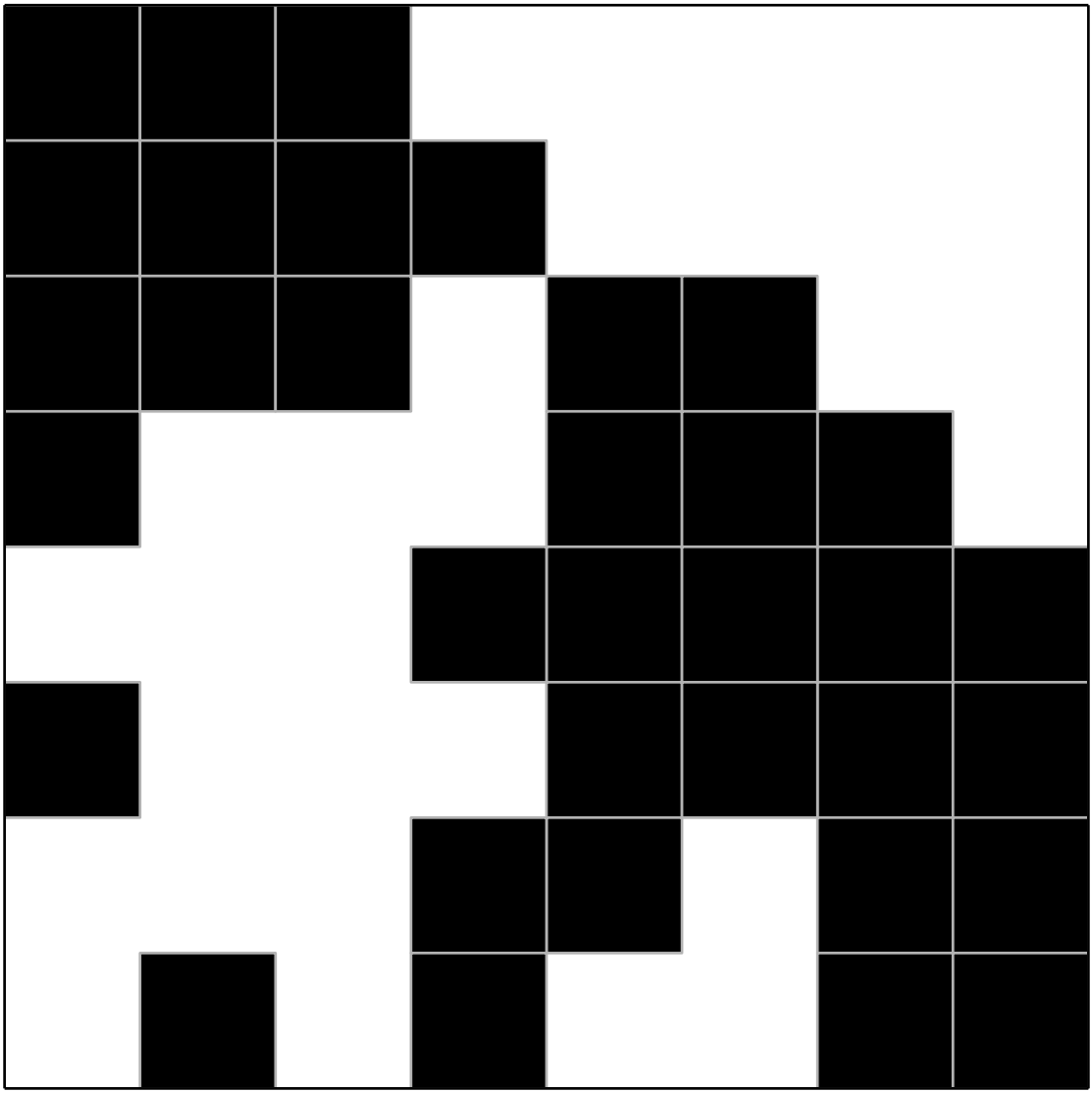
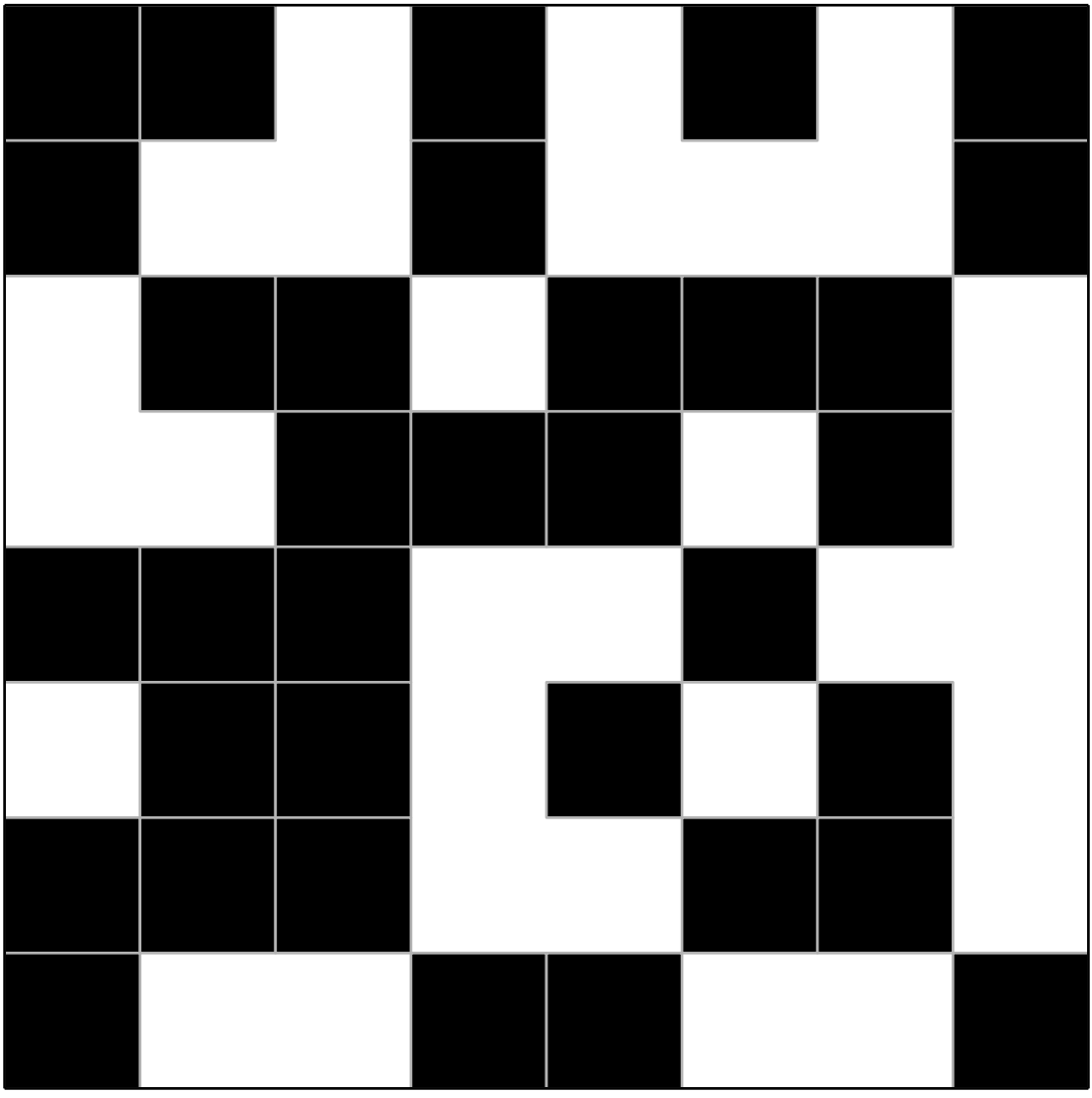


lib2_hs079-02 8x8 (34) con: 3, var: 5



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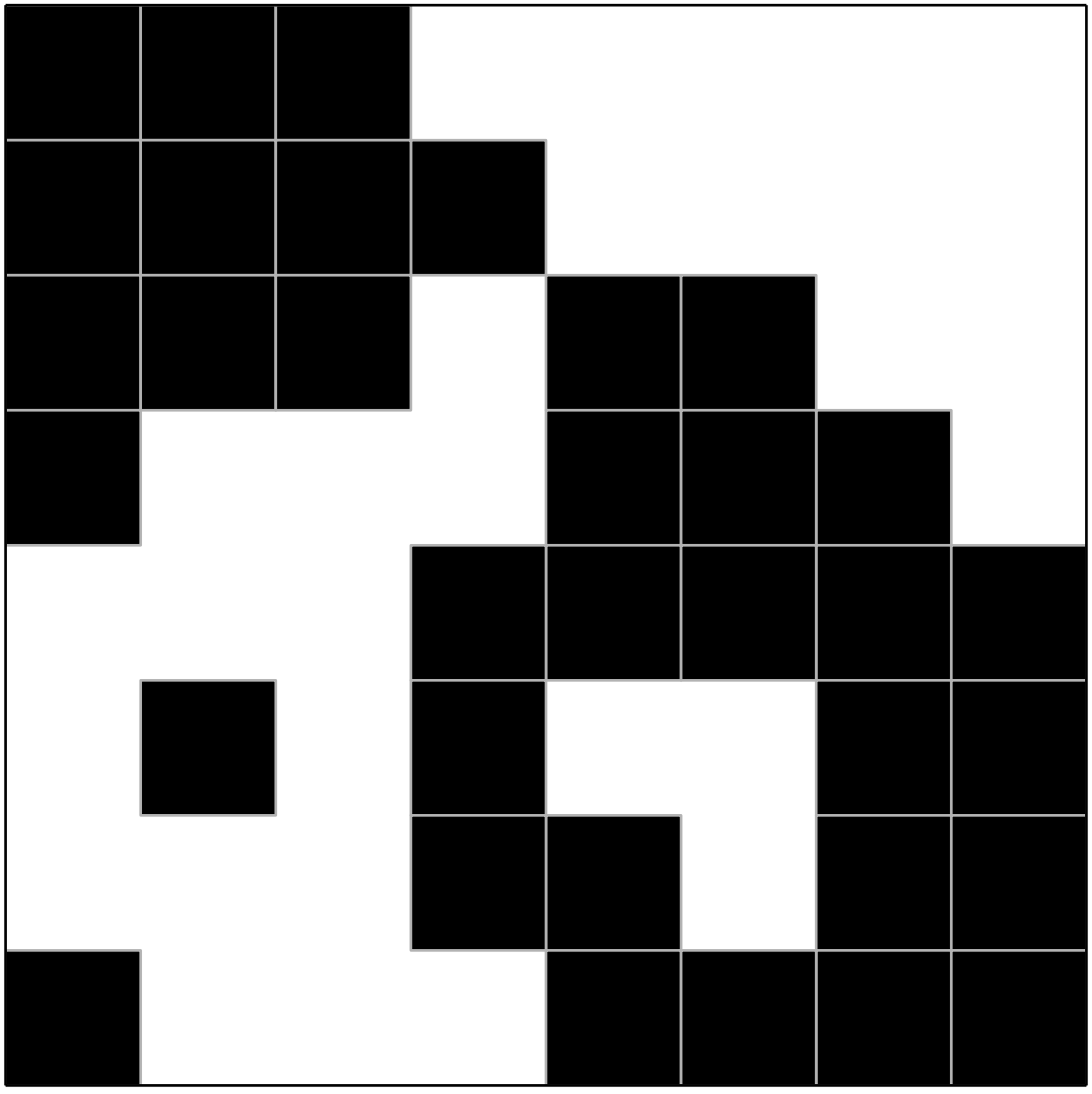
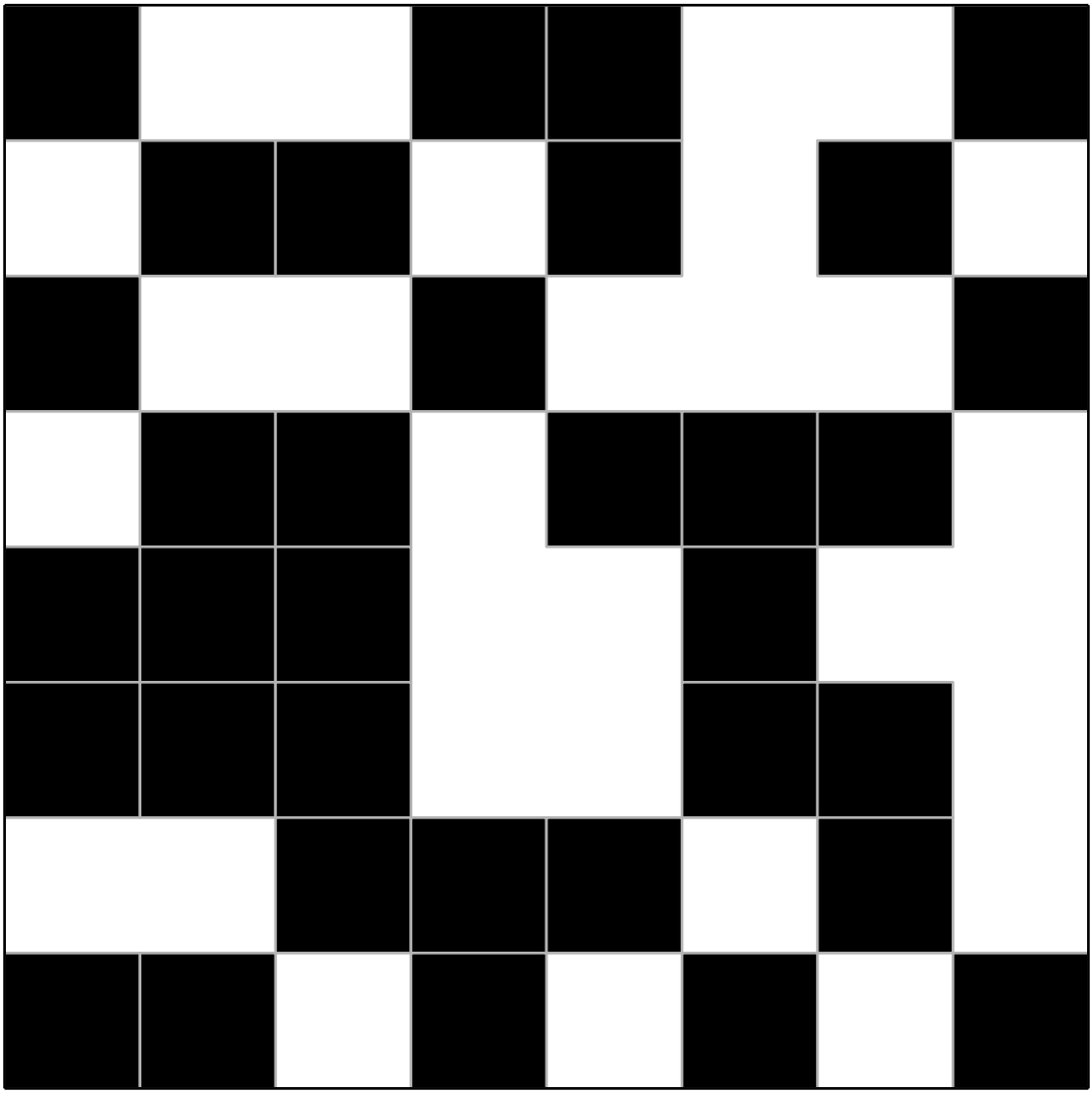


lib2_hs079-03 8x8 (34) con: 3, var: 5



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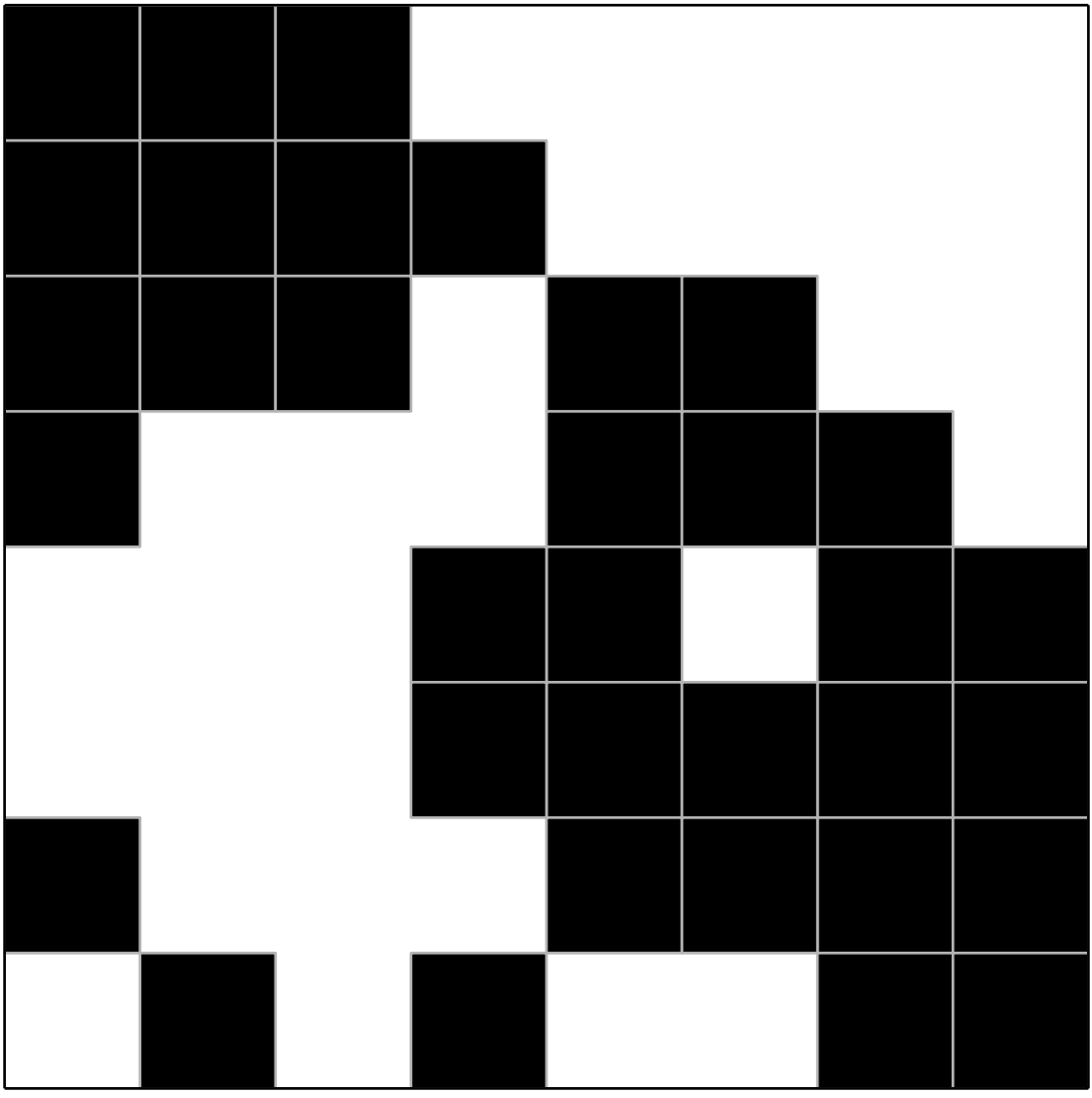
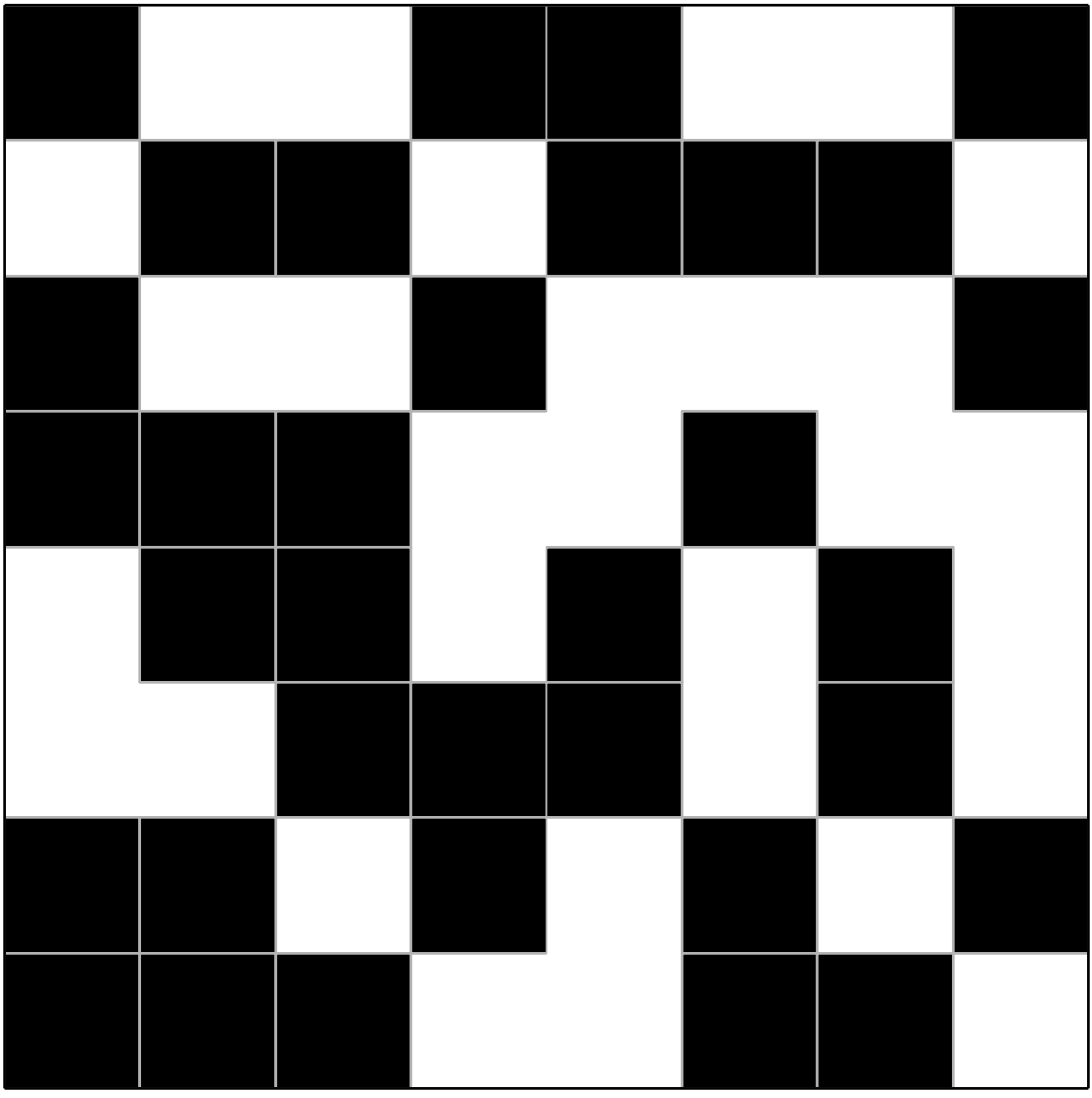


lib2_hs079-04 8x8 (34) con: 3, var: 5



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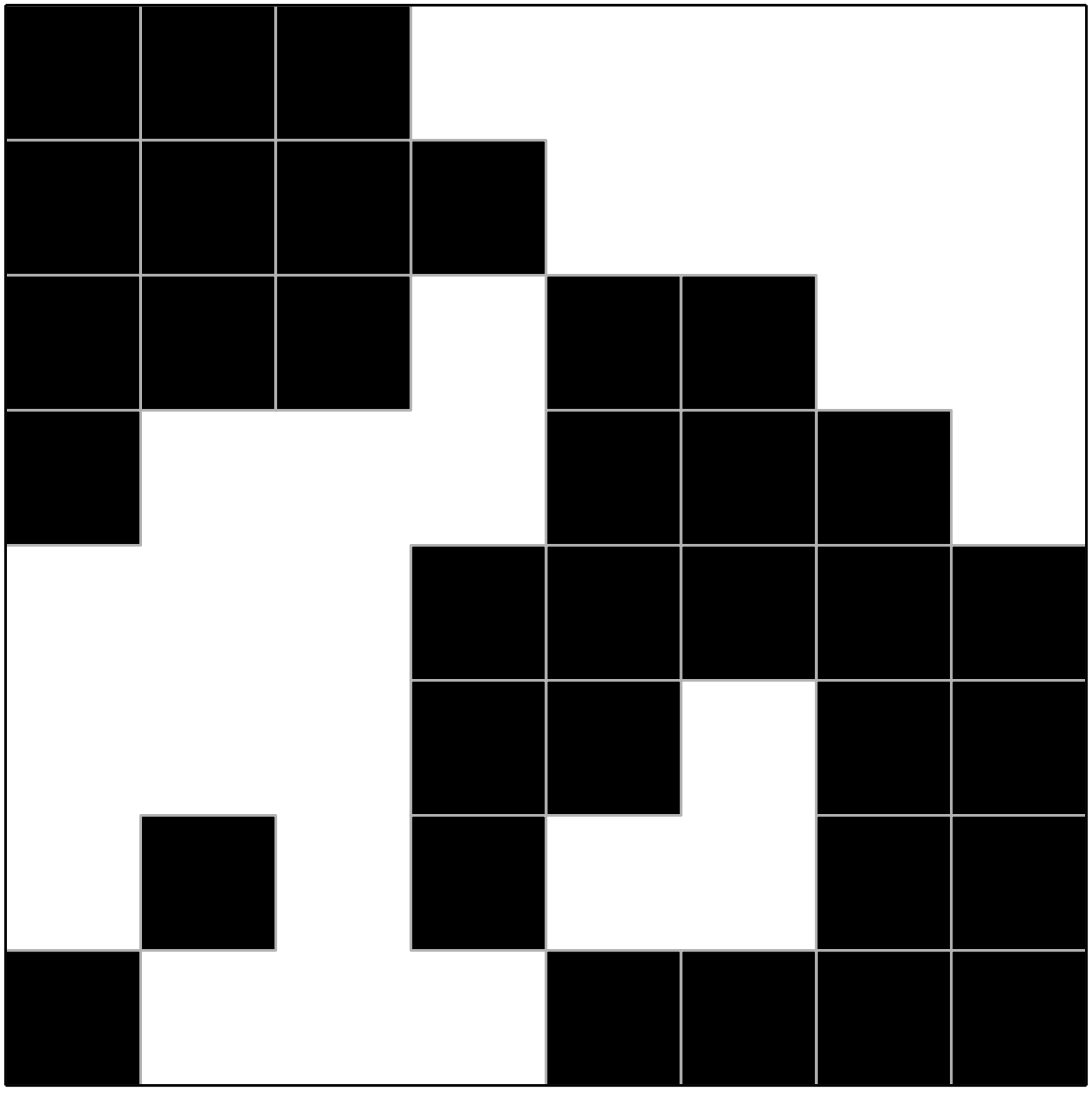

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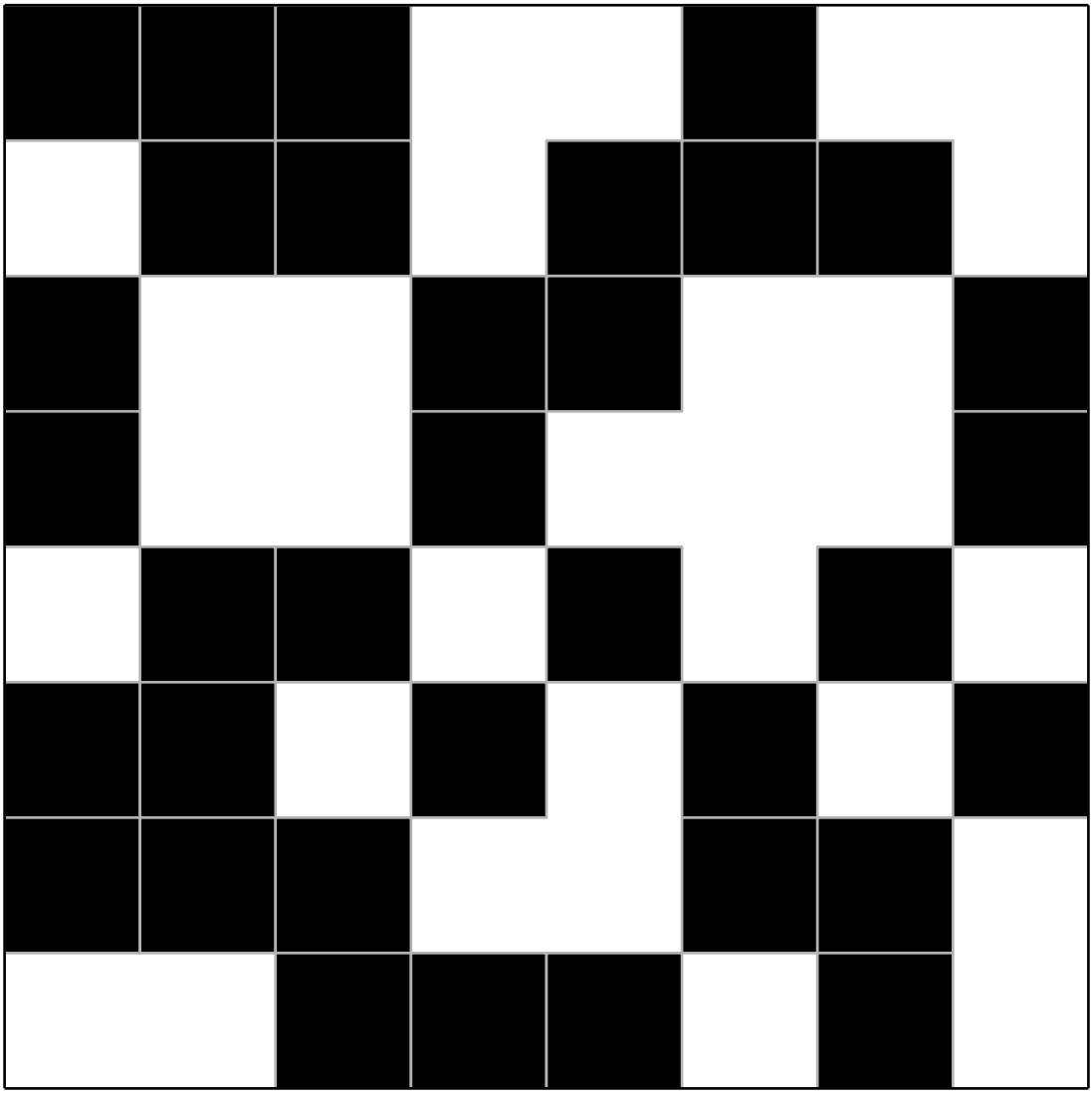

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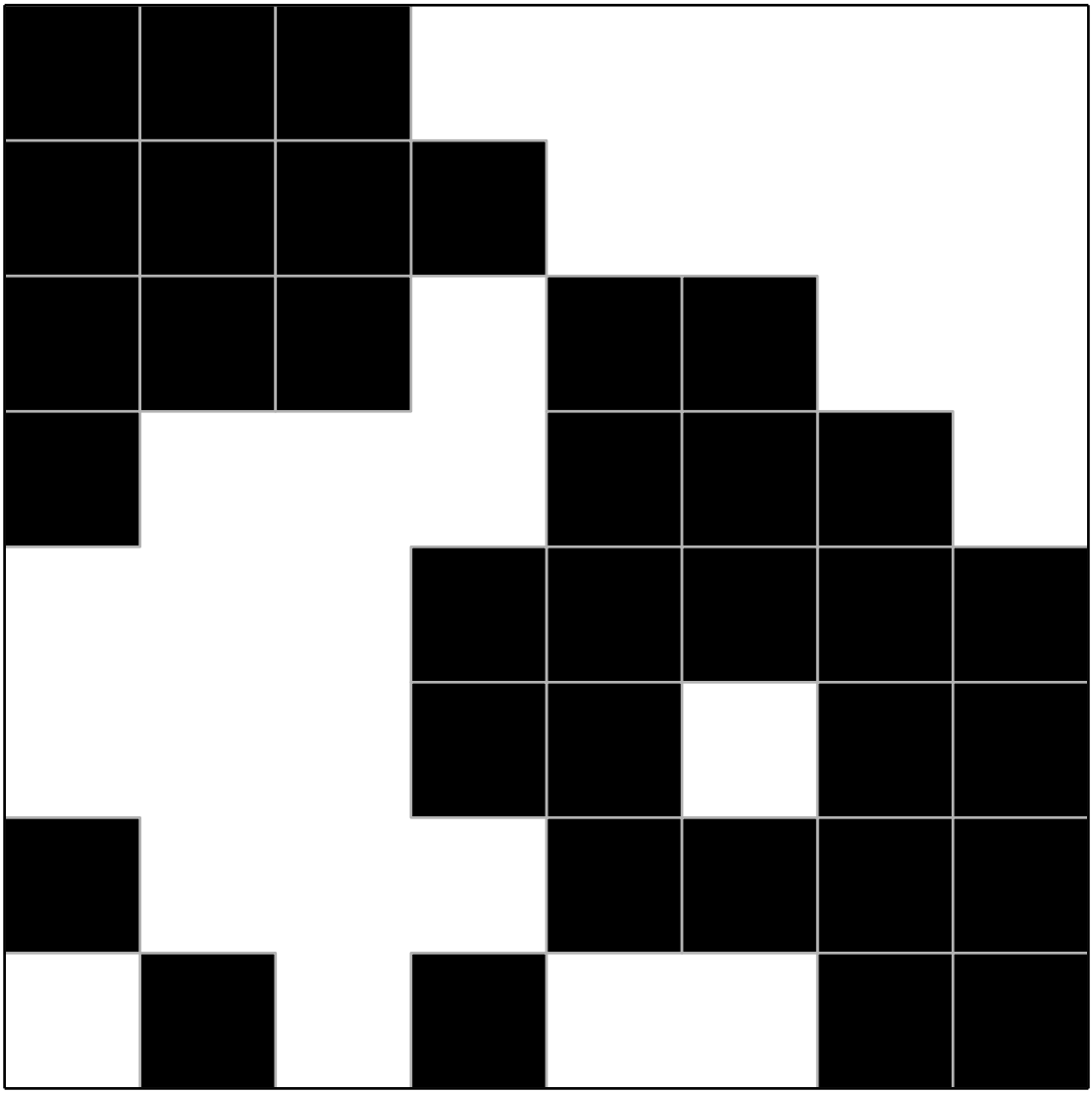
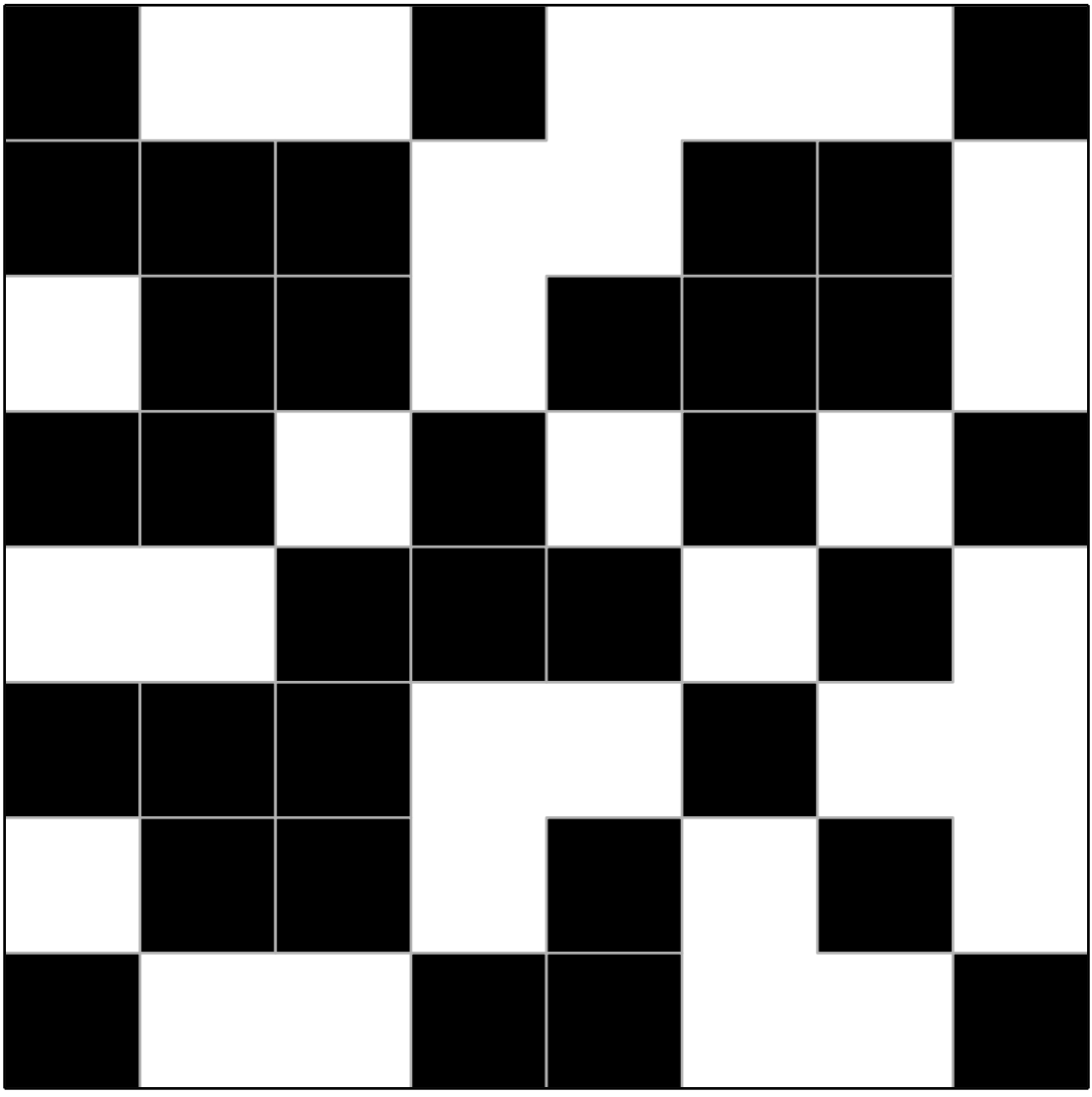


lib2_hs079-06 8x8 (34) con: 3, var: 5



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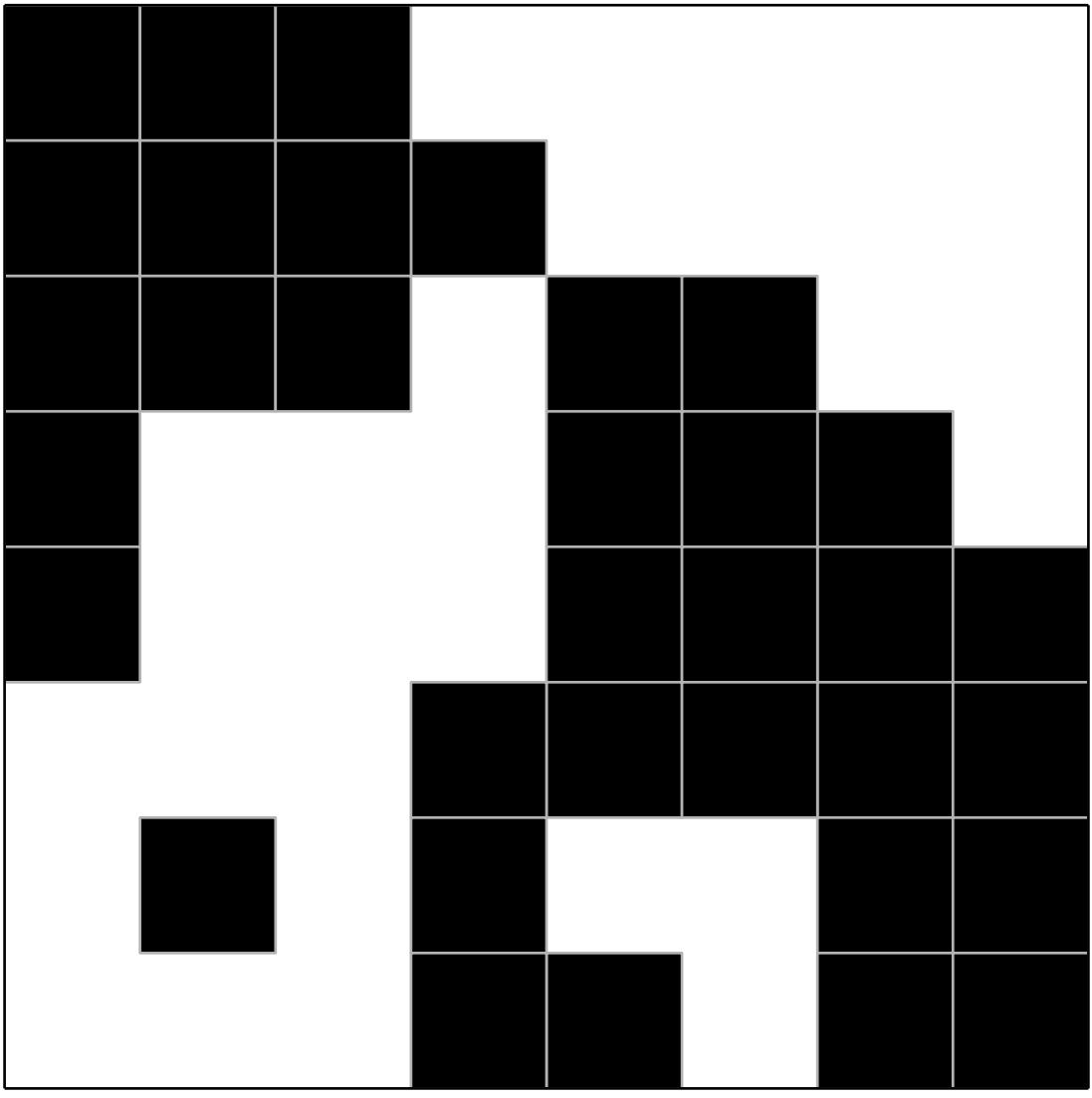

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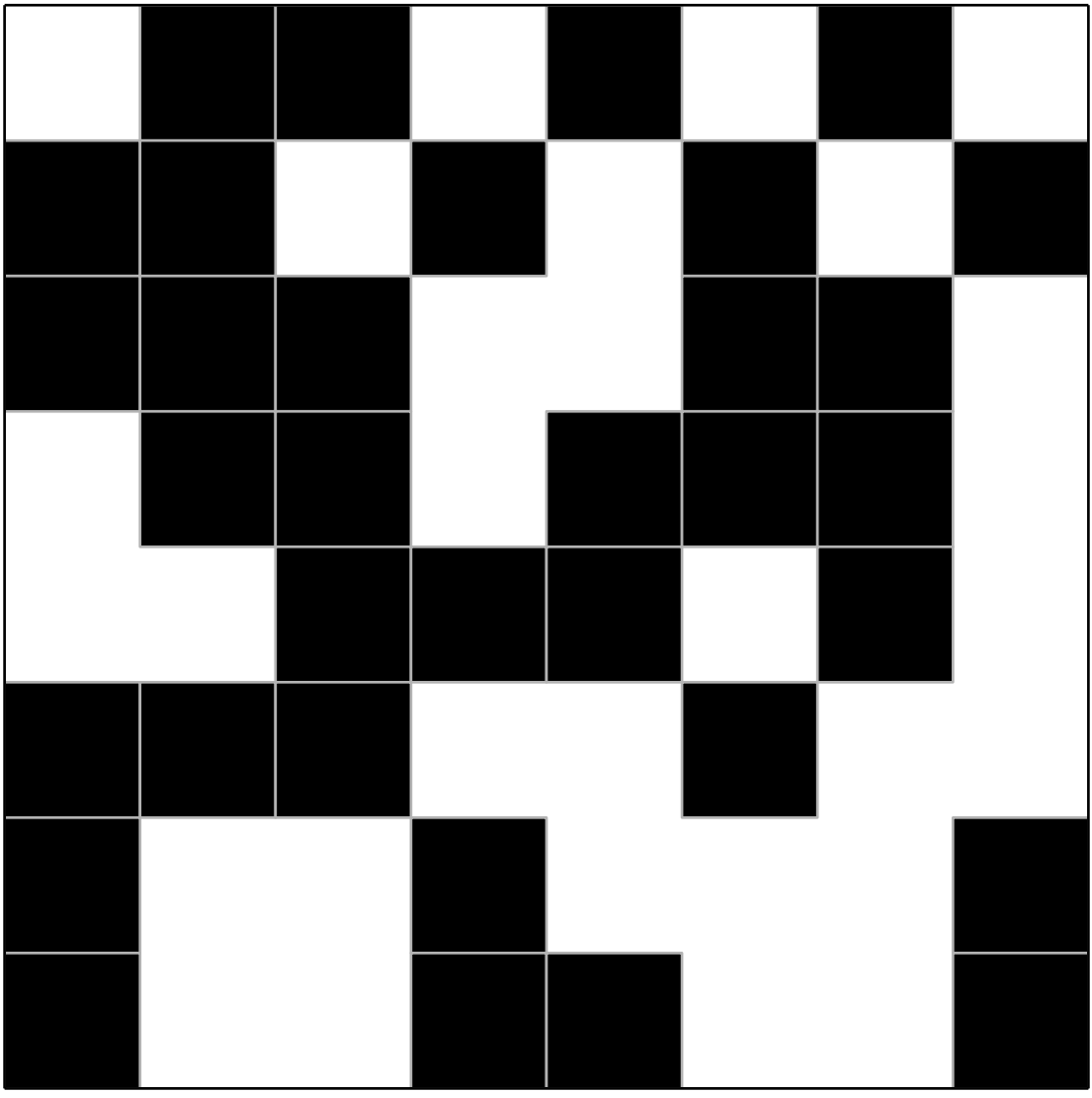

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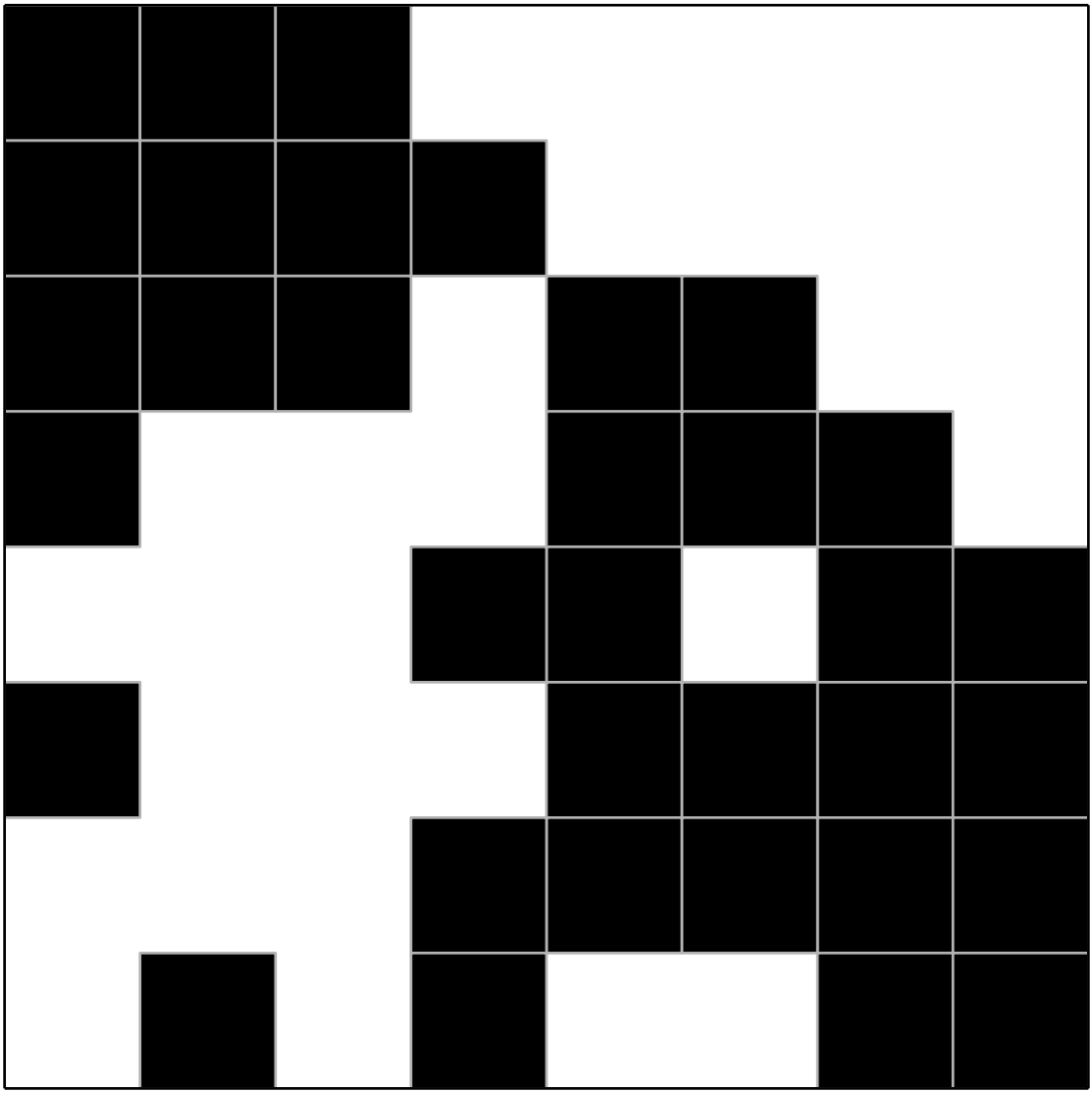
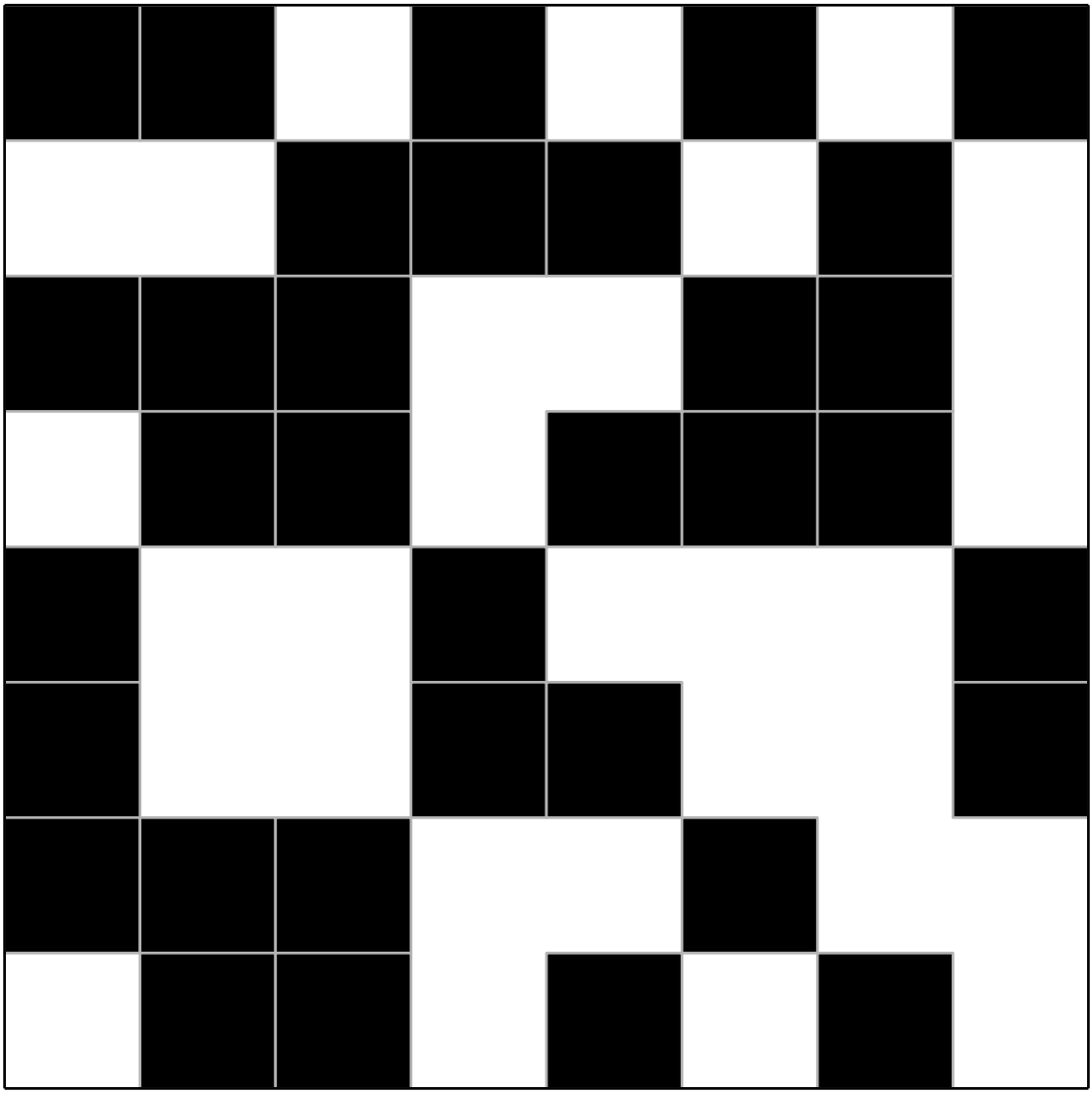


lib2_hs079-08 8x8 (34) con: 3, var: 5



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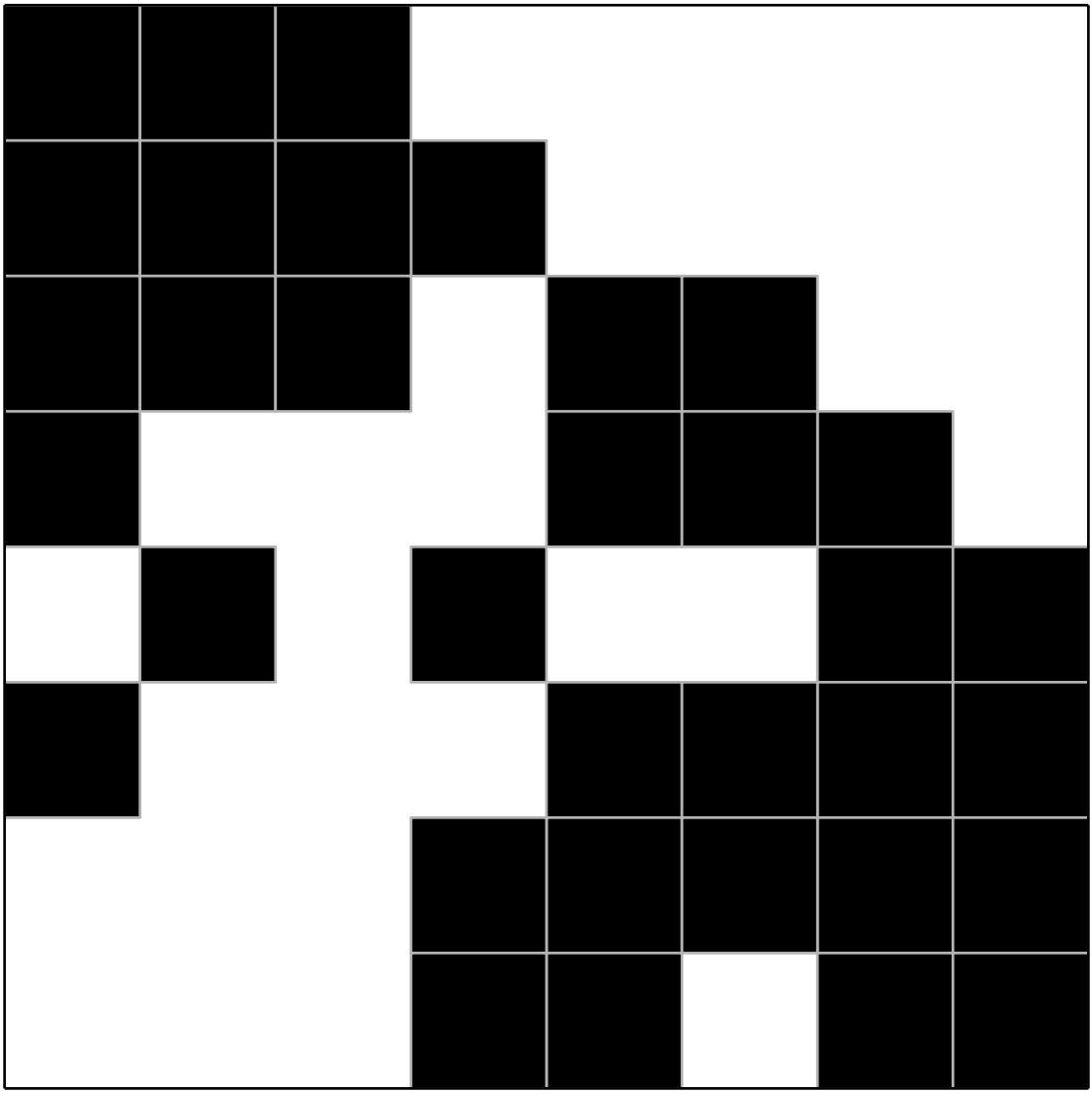
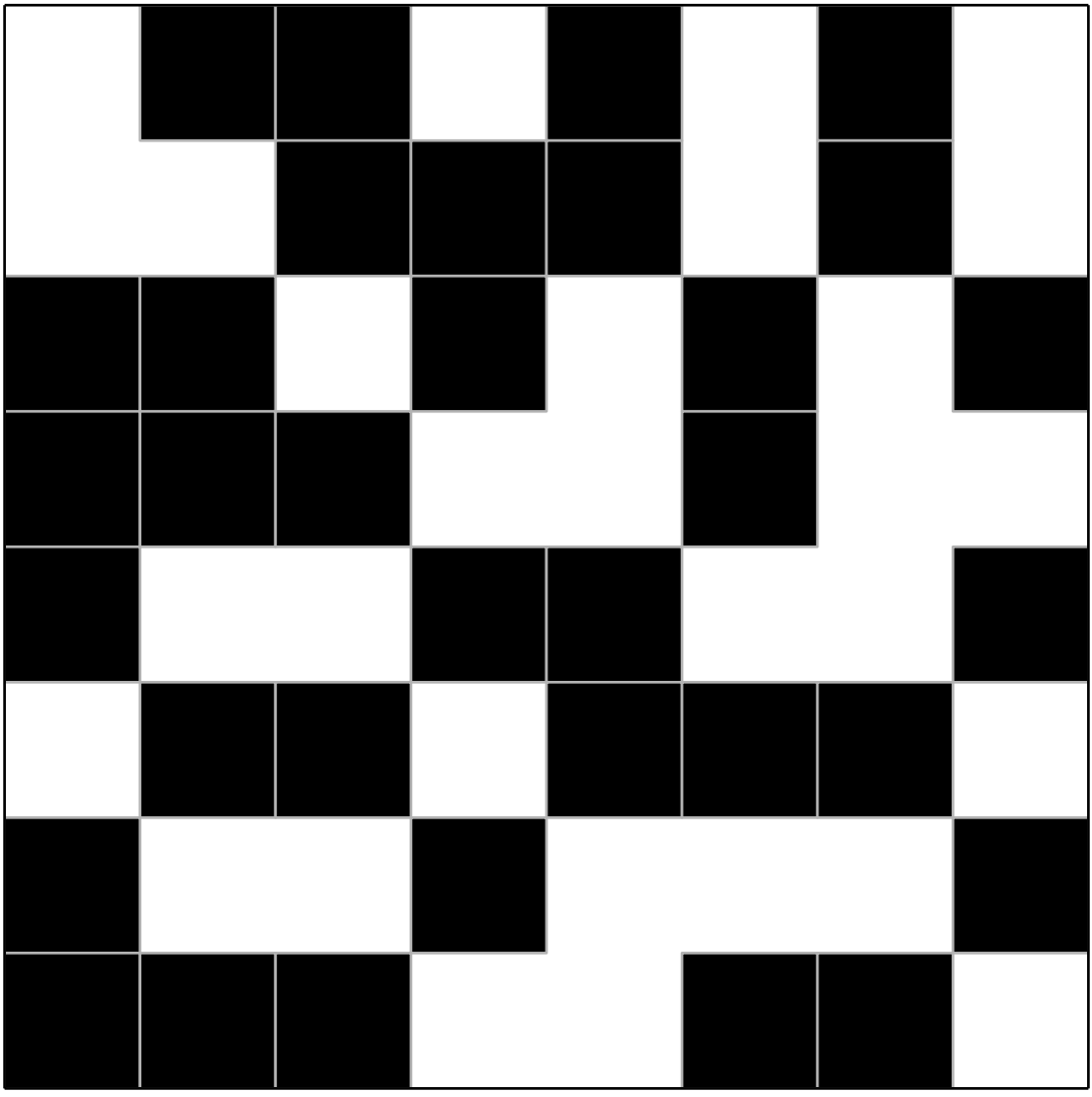
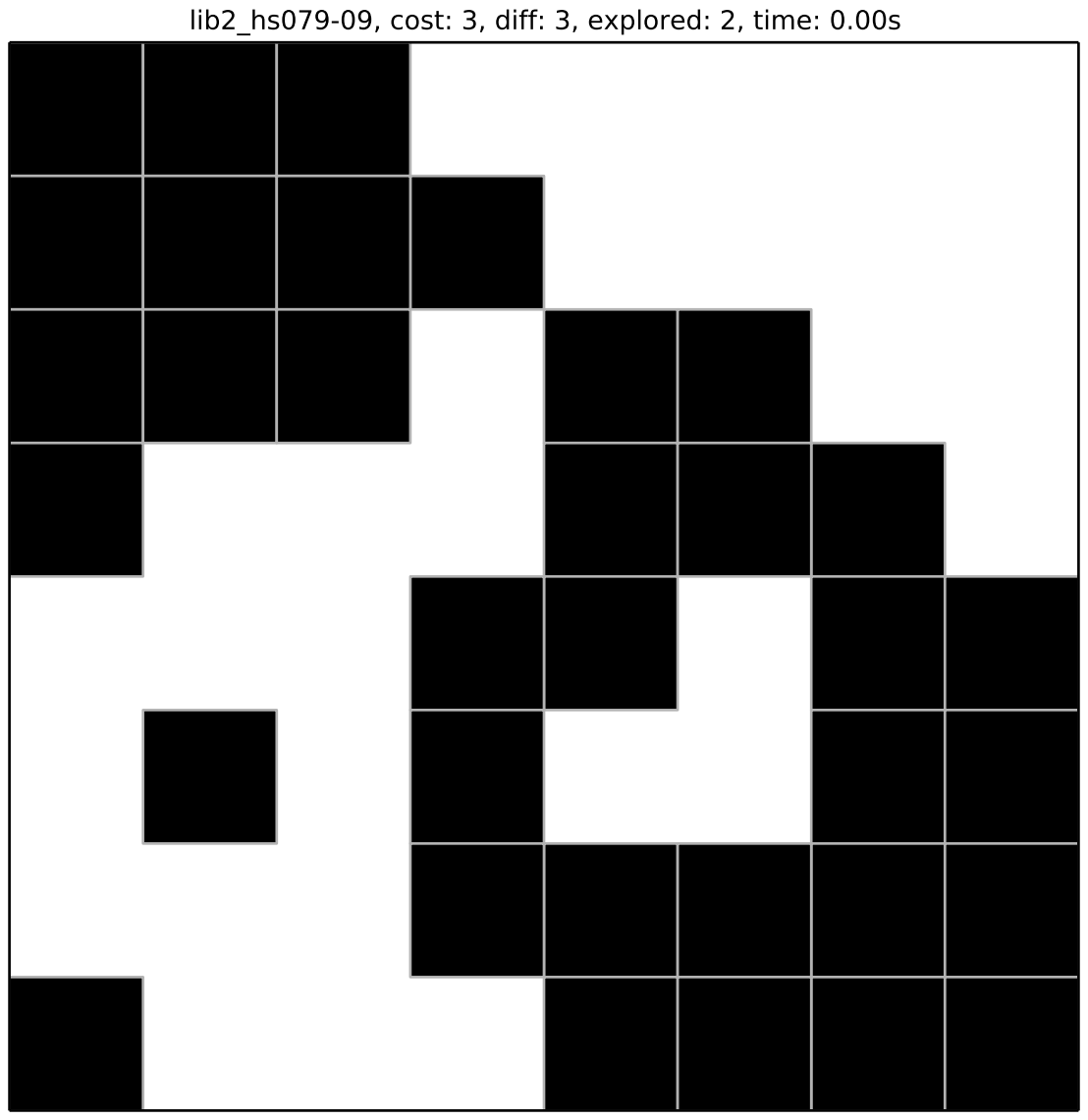


lib2_hs079-09 8x8 (34) con: 3, var: 5

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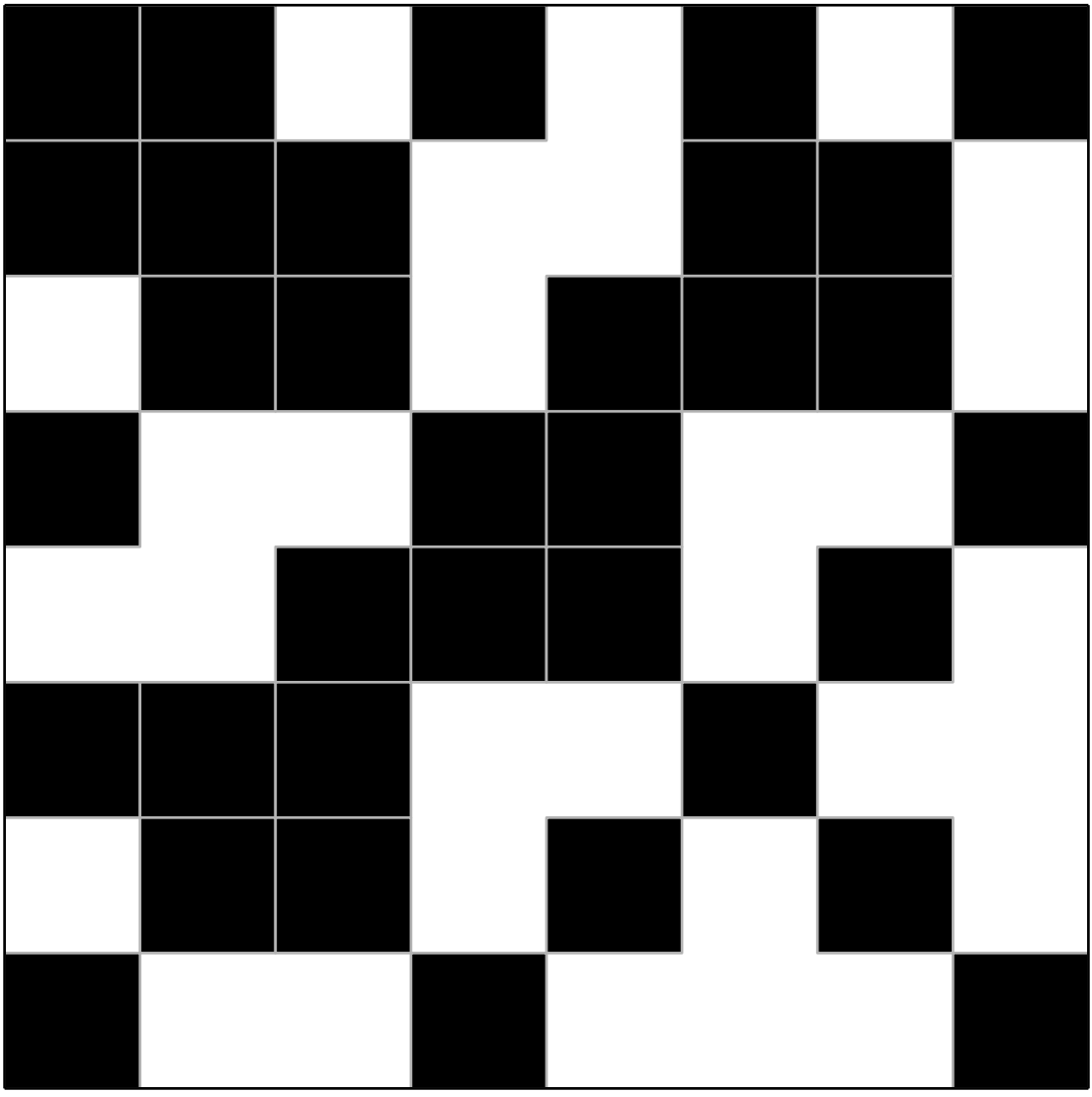
lib2_hs079-IN 8x8 (34) con: 3, var: 5



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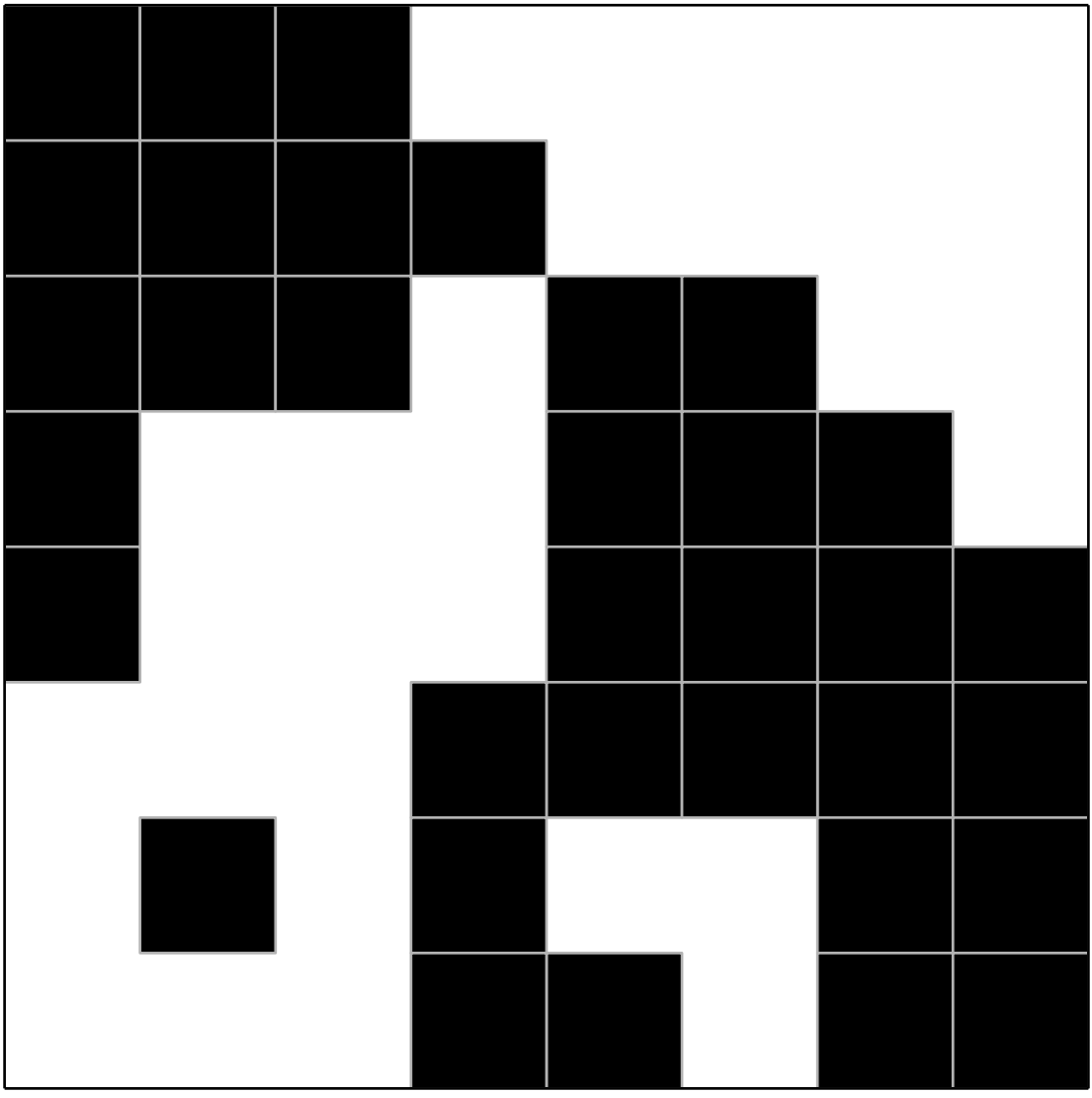
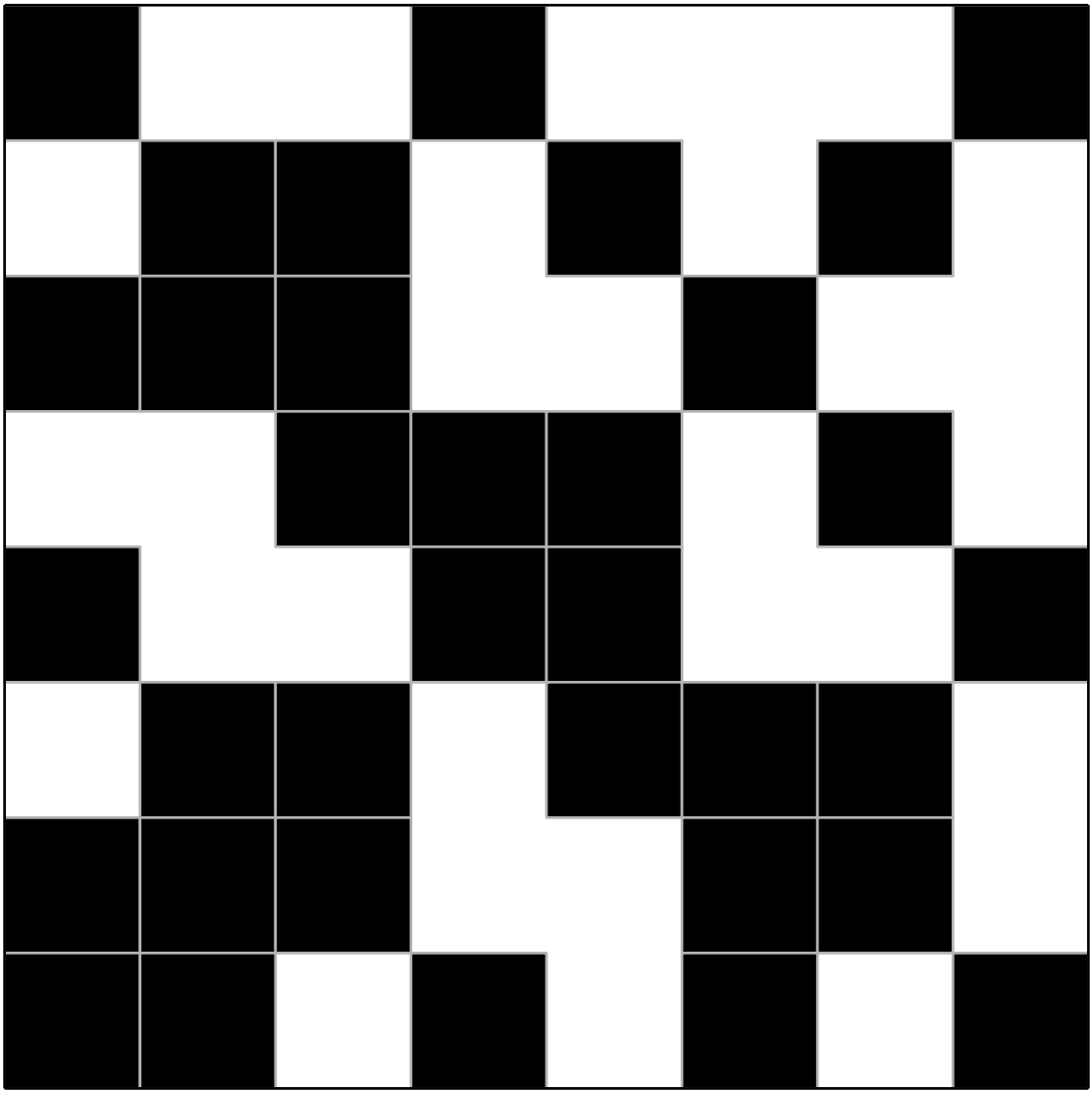
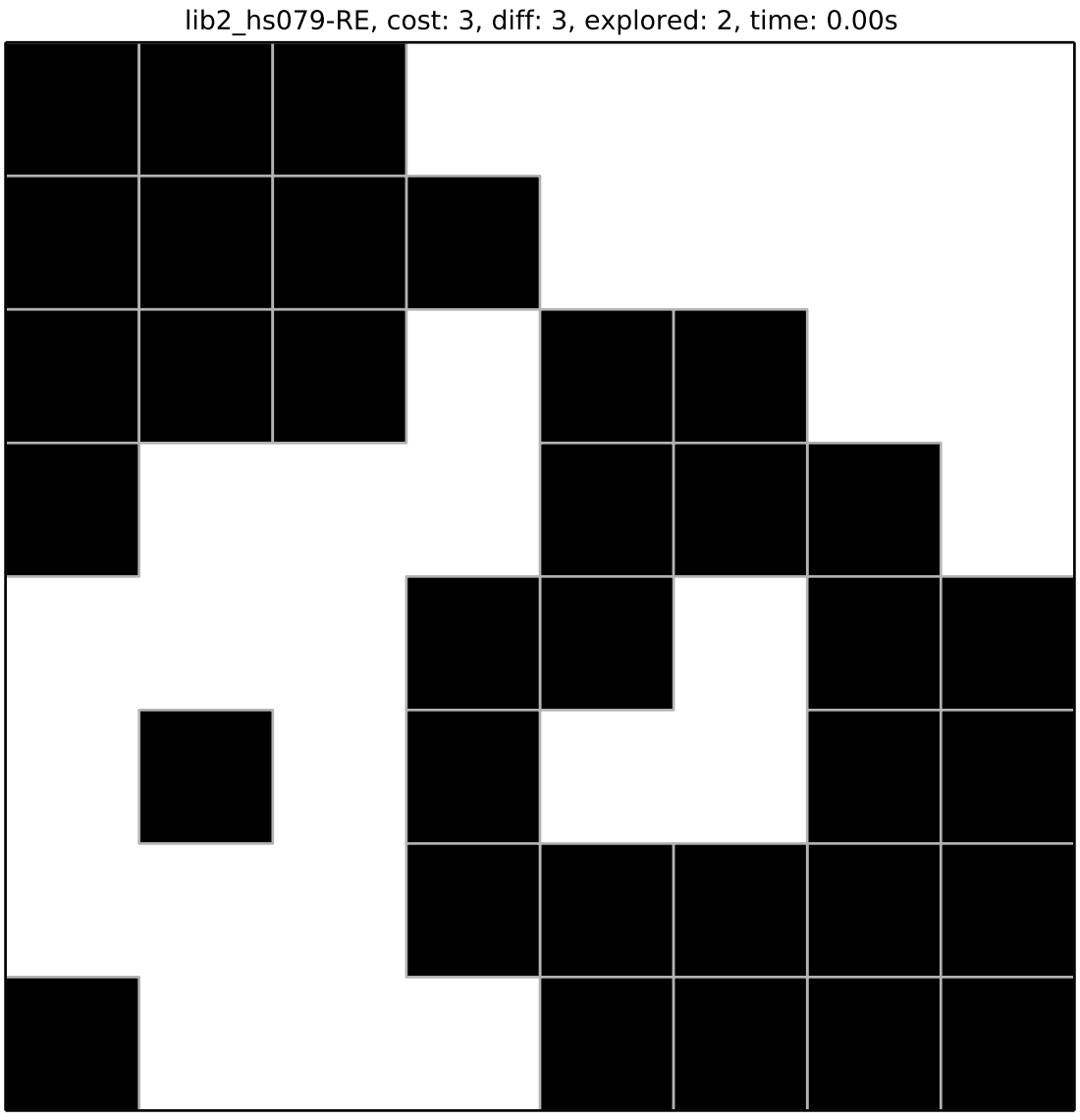


lib2_hs079-RE 8x8 (34) con: 3, var: 5

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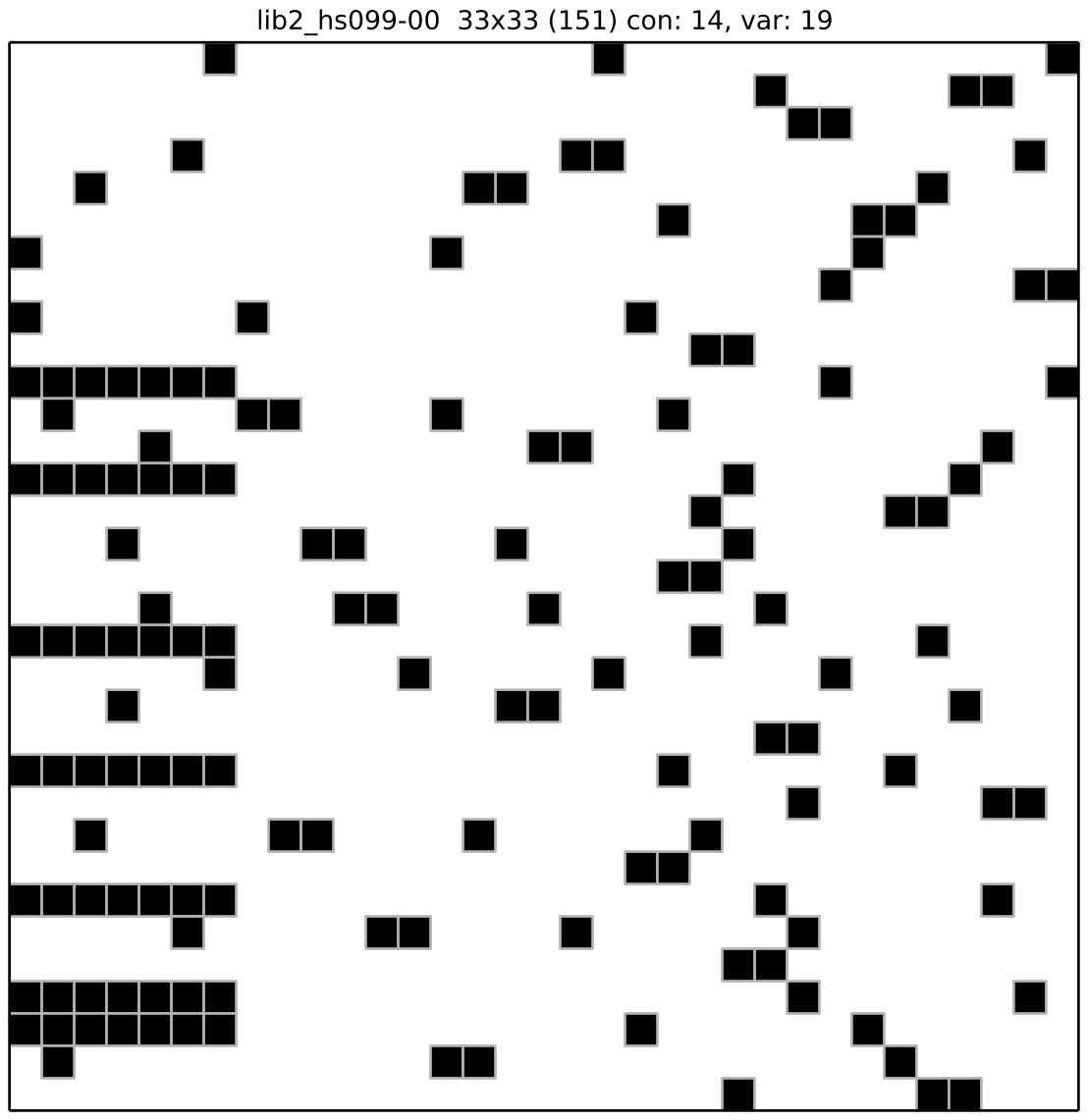
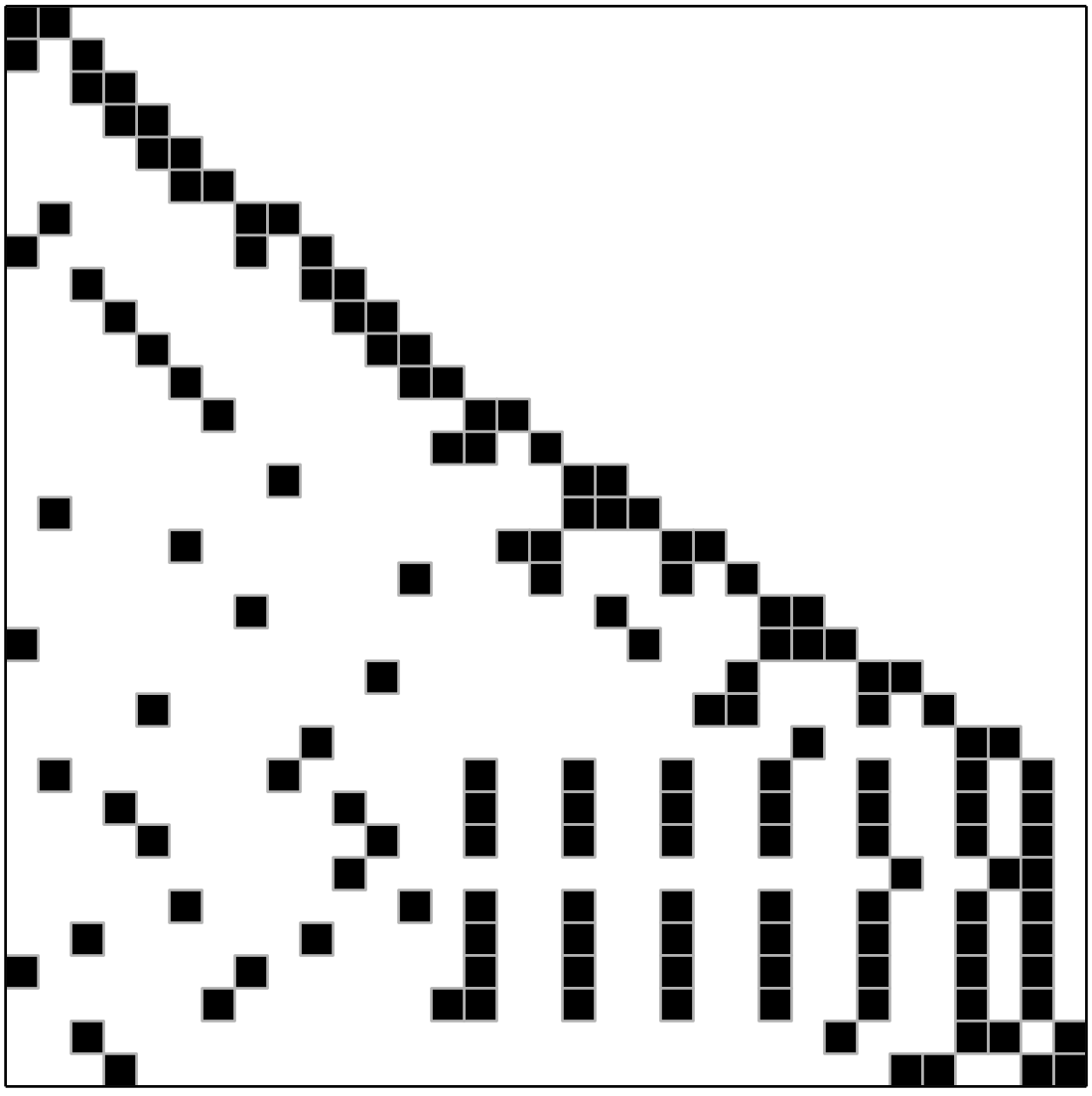
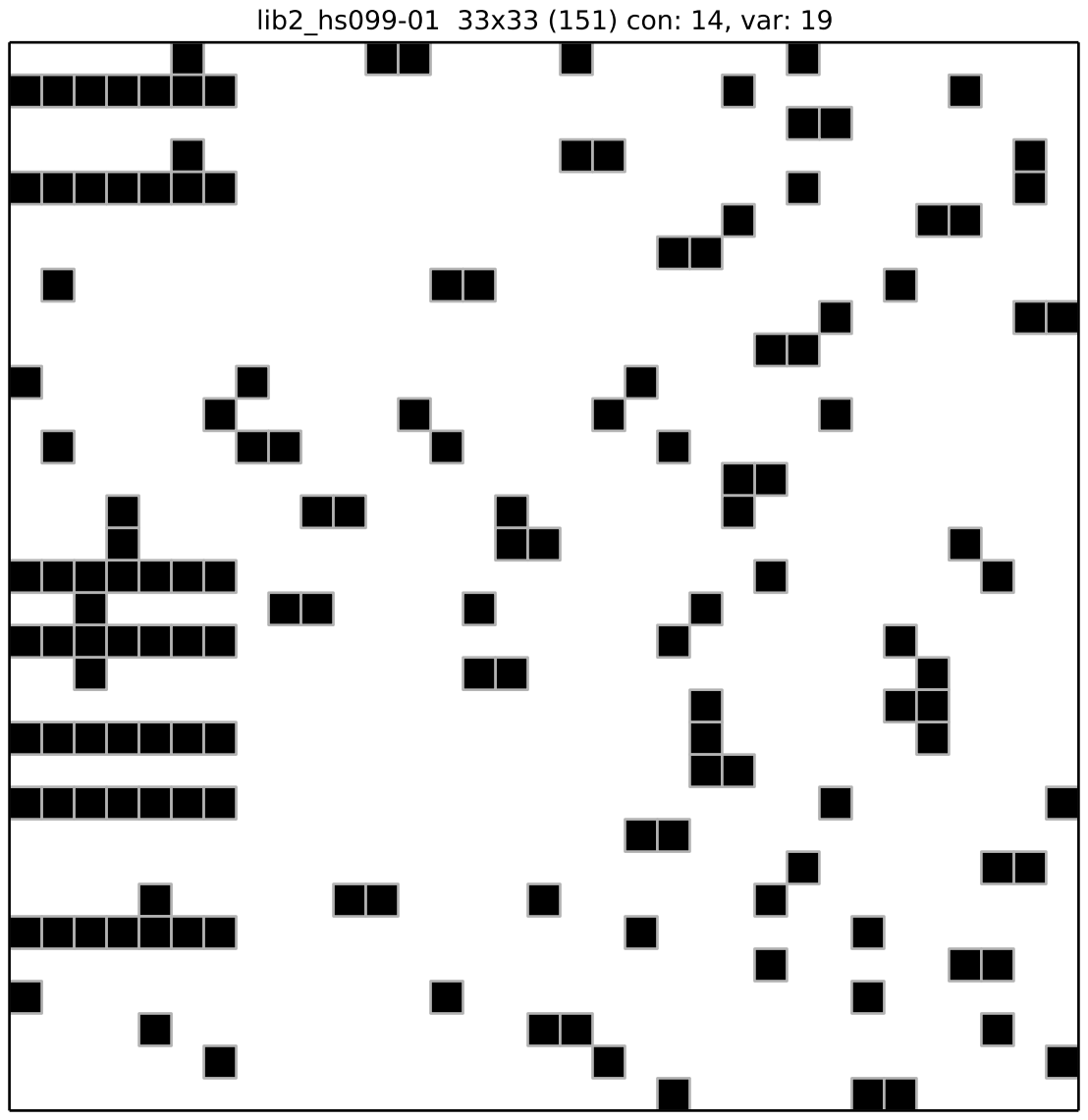
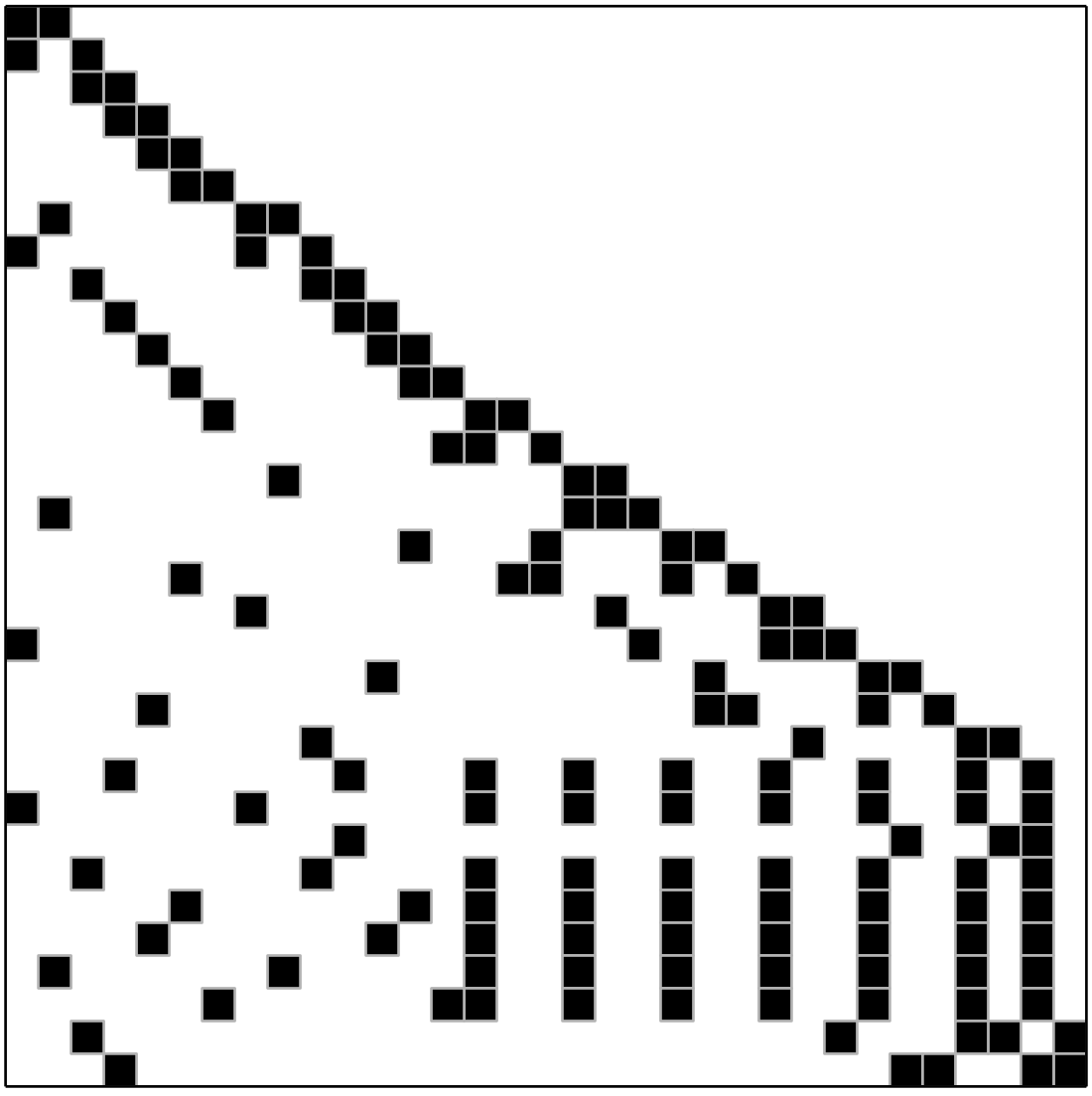

lib2_hs099-00 33x33 (151) con: 14, var: 19


lib2_hs099-00, cost: 8, diff: 8, explored: 285, time: 0.10s


lib2_hs099-01 33x33 (151) con: 14, var: 19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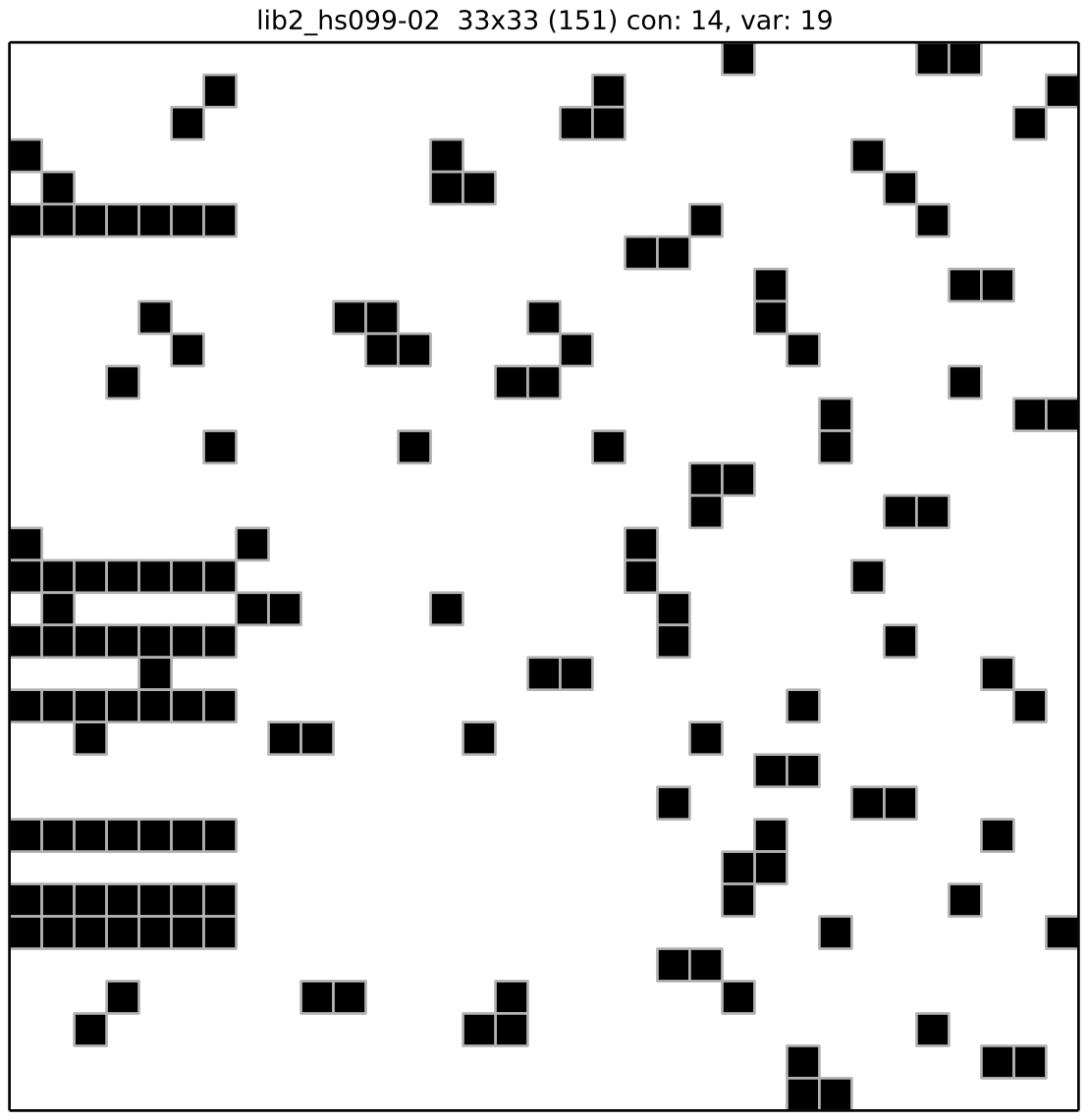
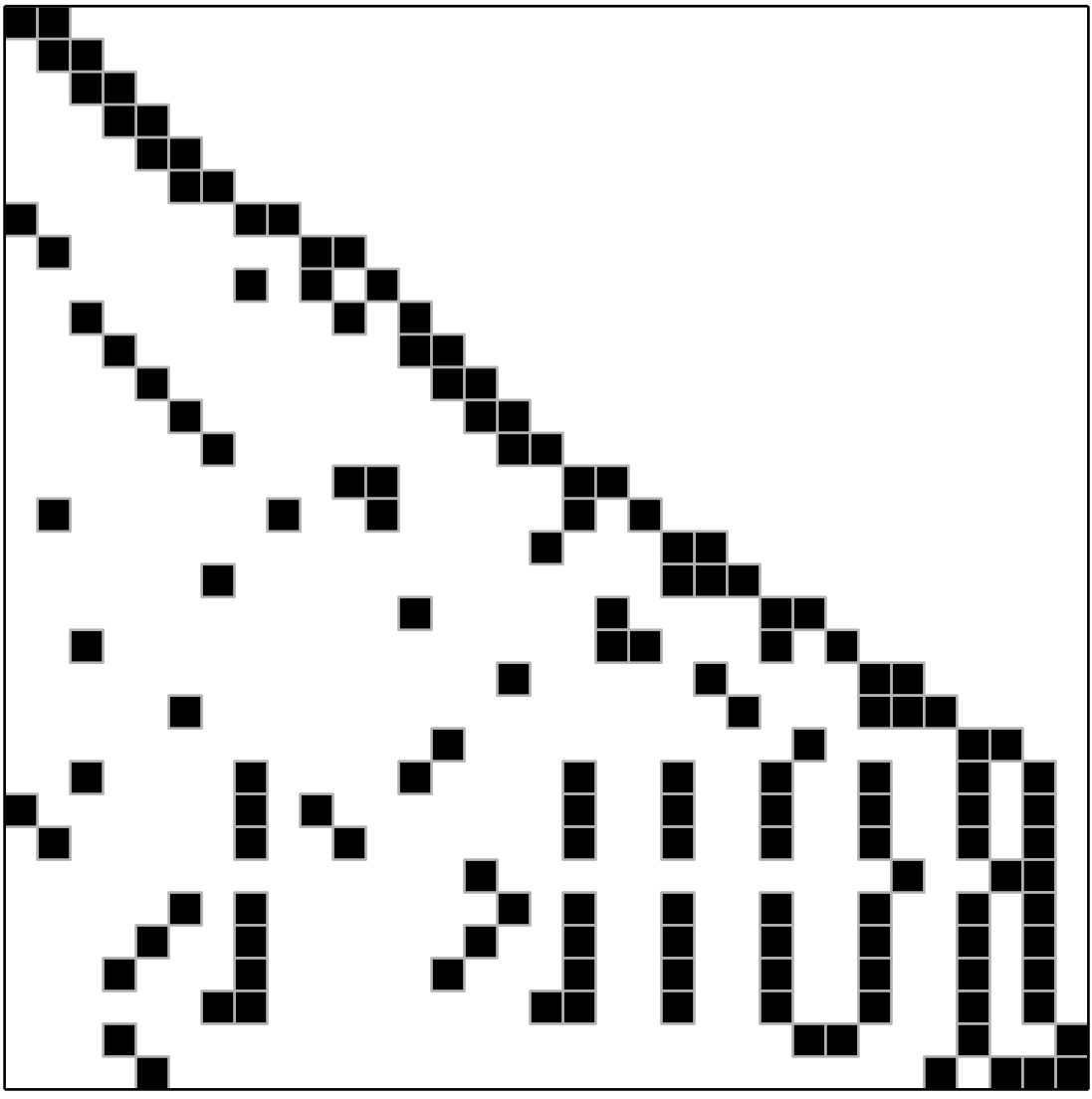
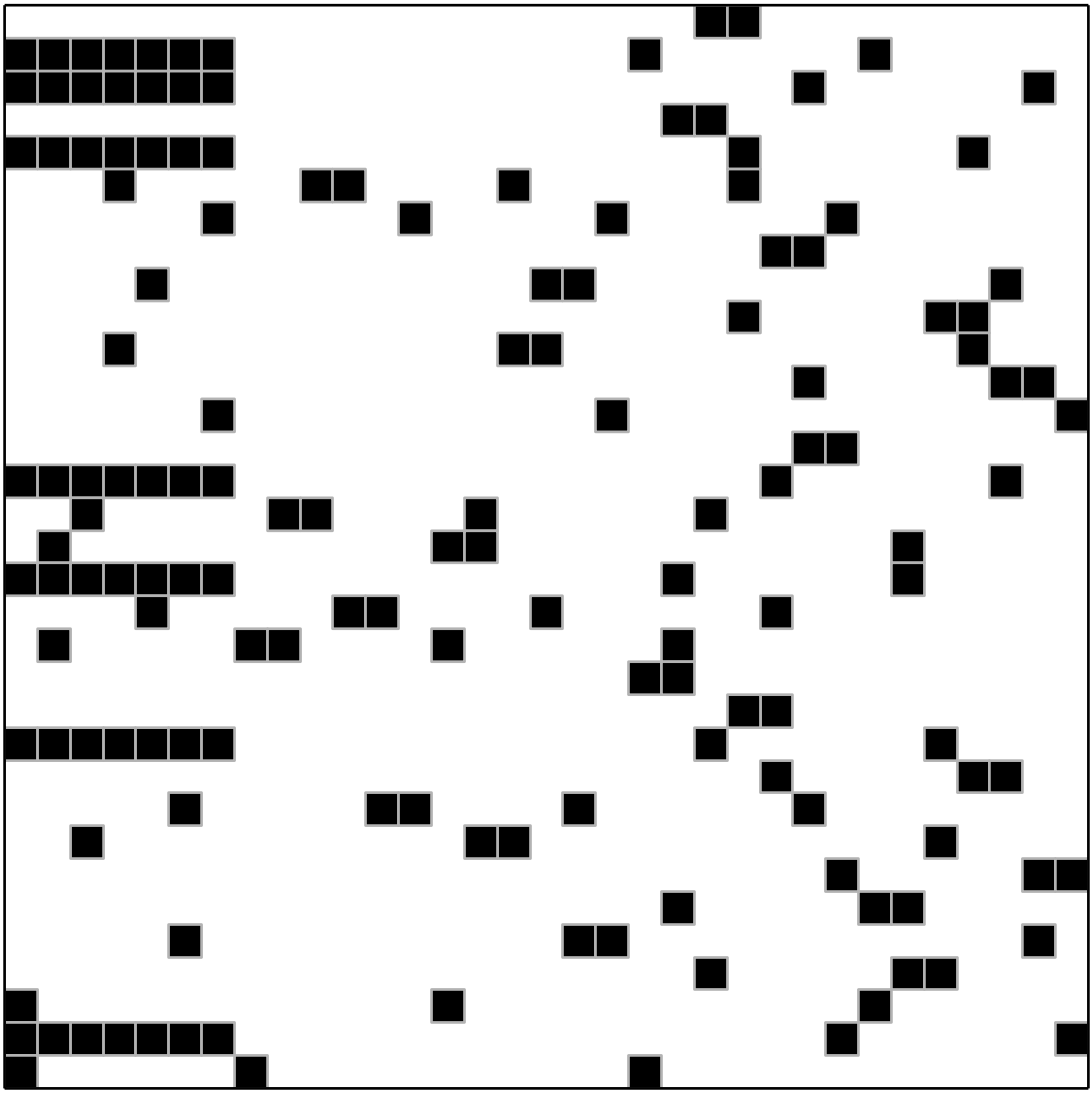
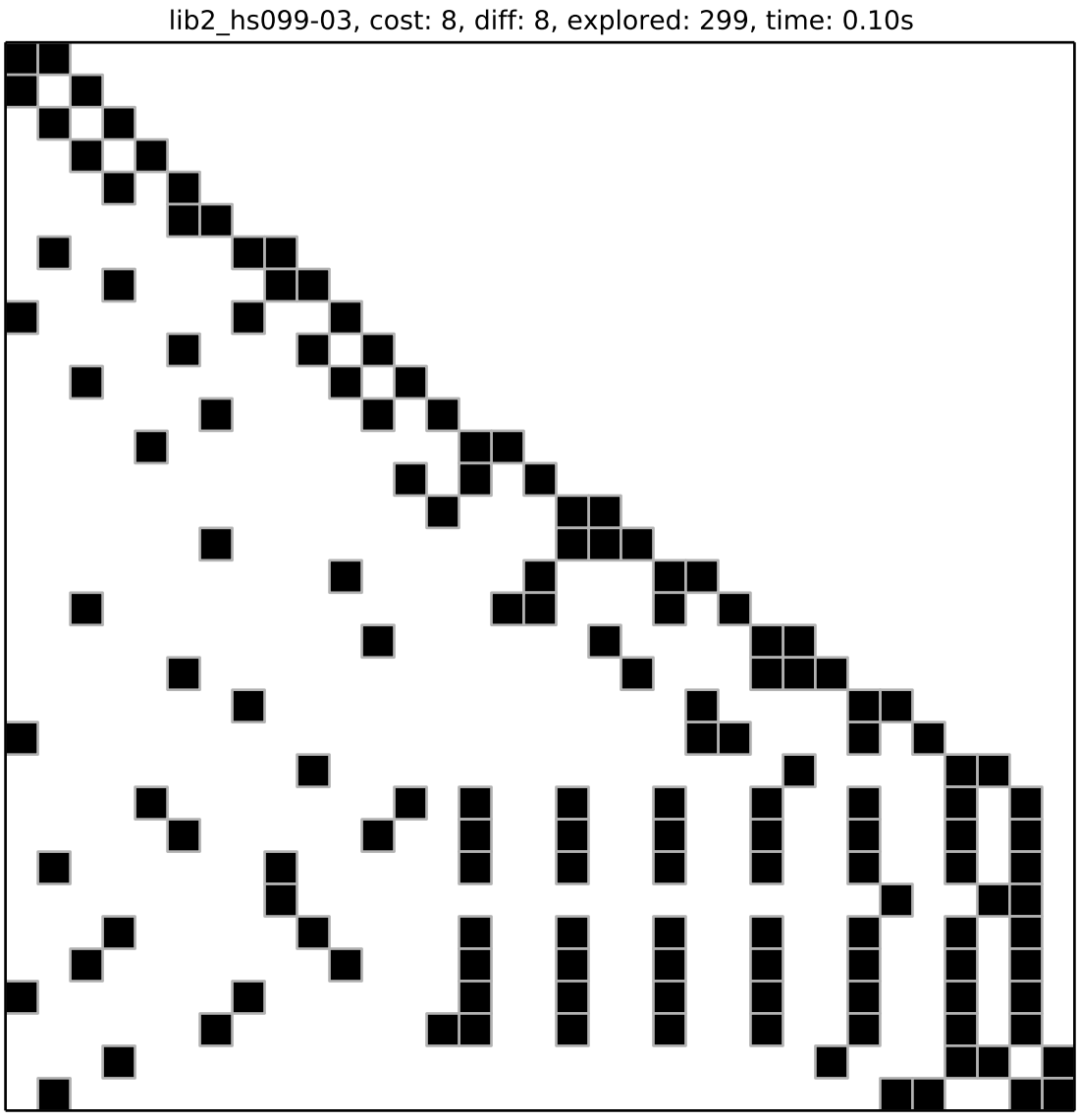

lib2_hs099-02 33x33 (151) con: 14, var: 19


lib2_hs099-02, cost: 8, diff: 8, explored: 276, time: 0.09s

lib2_hs099-03 33x33 (151) con: 14, var: 19

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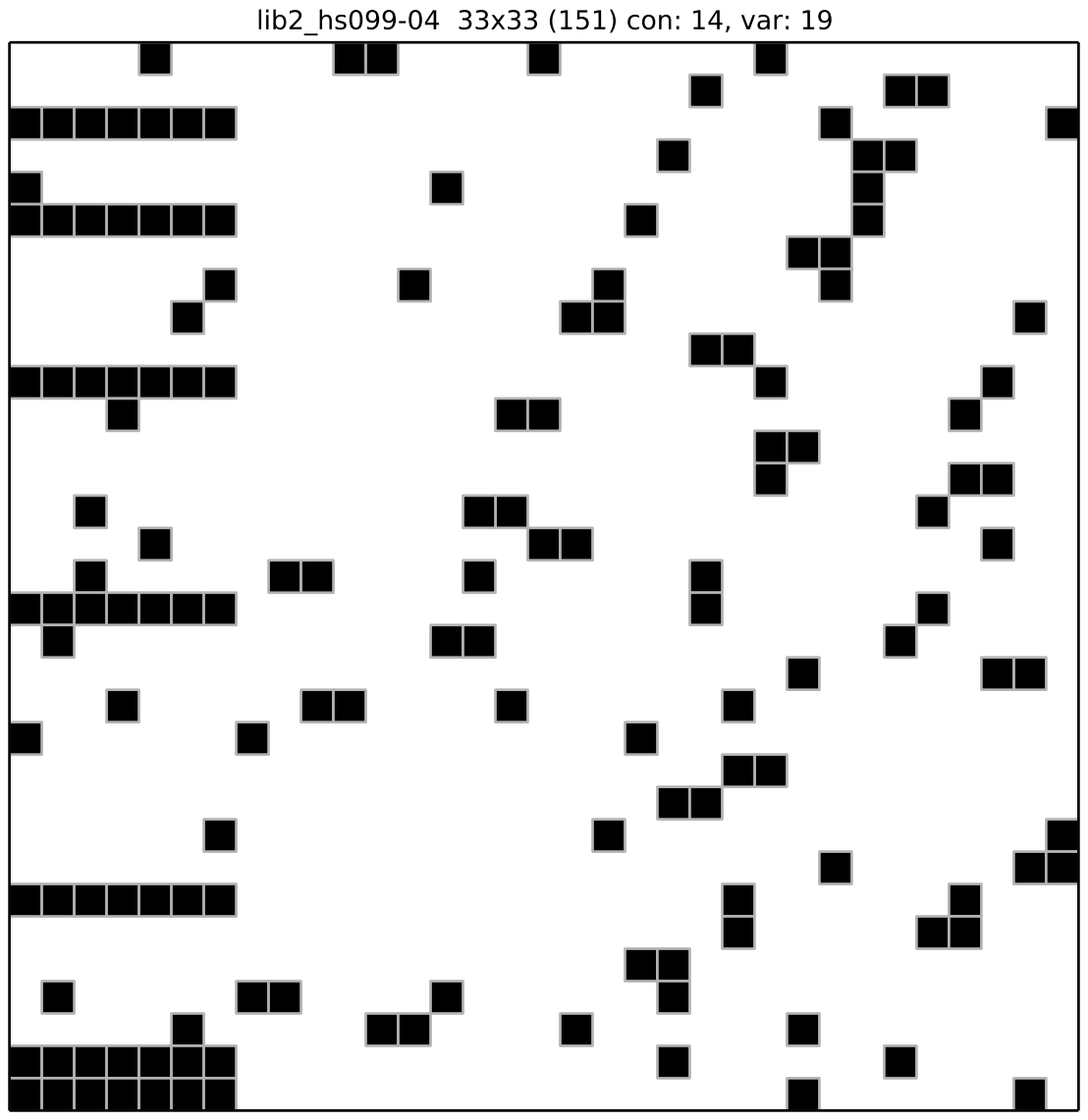
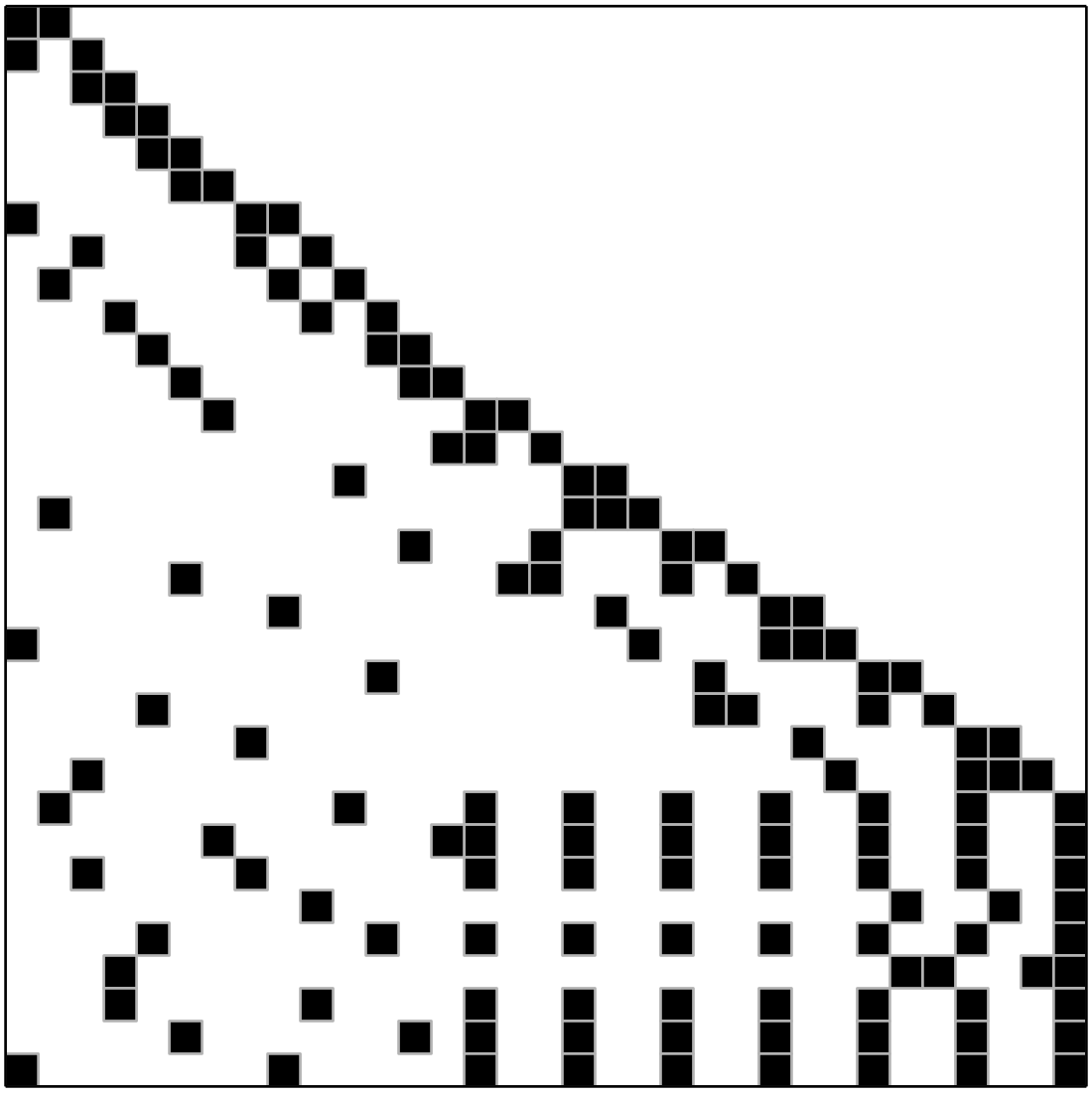
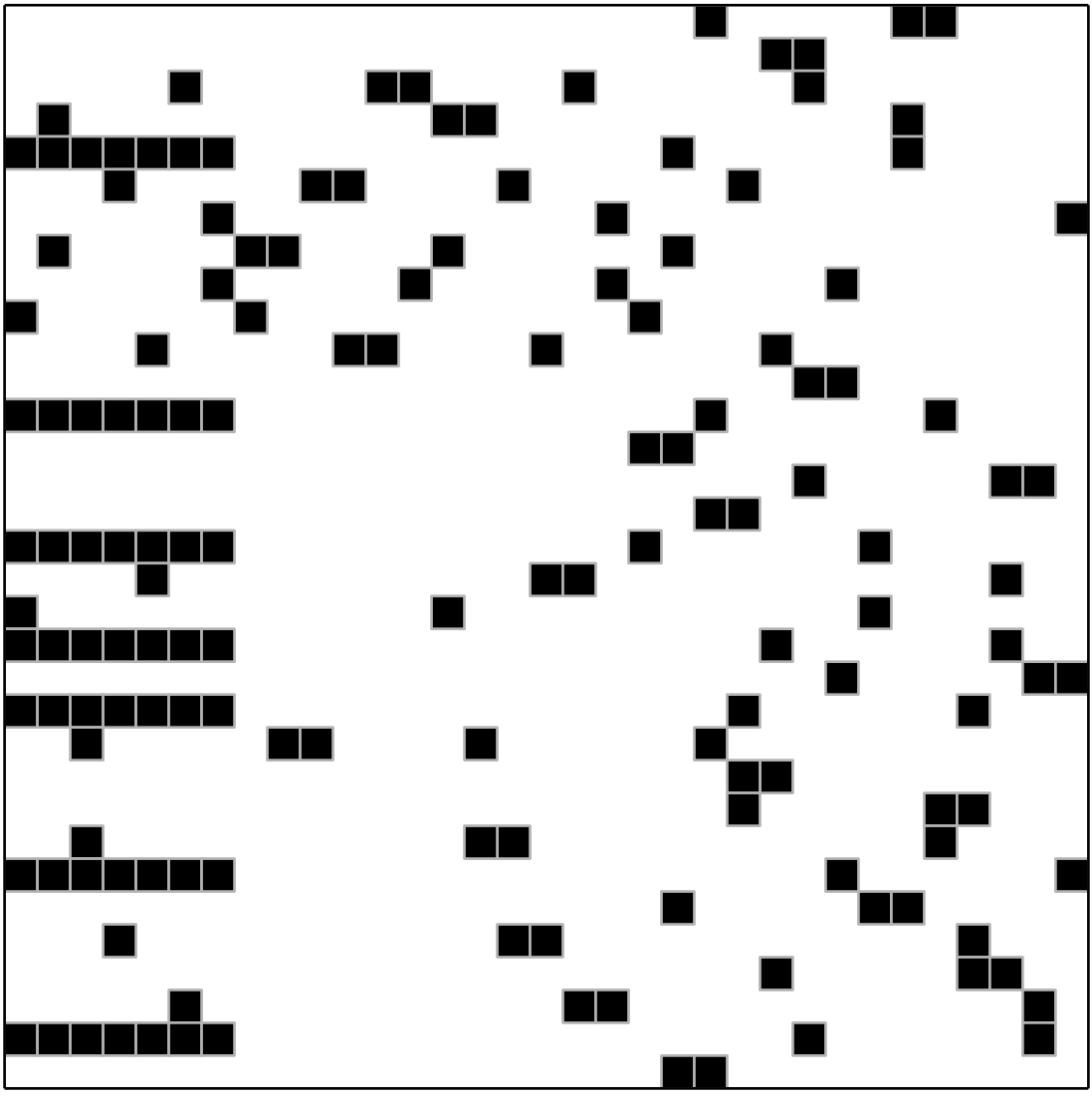
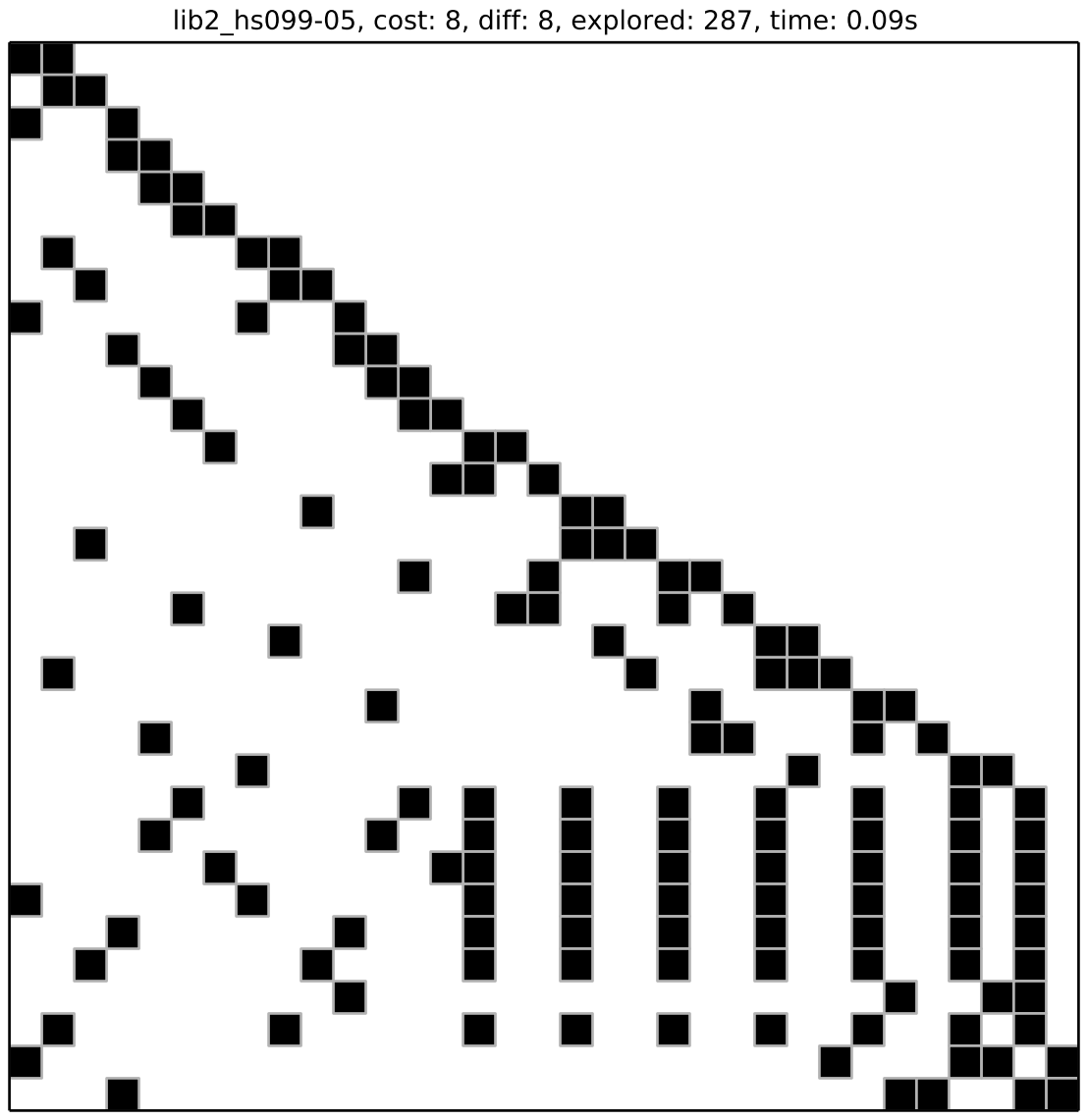
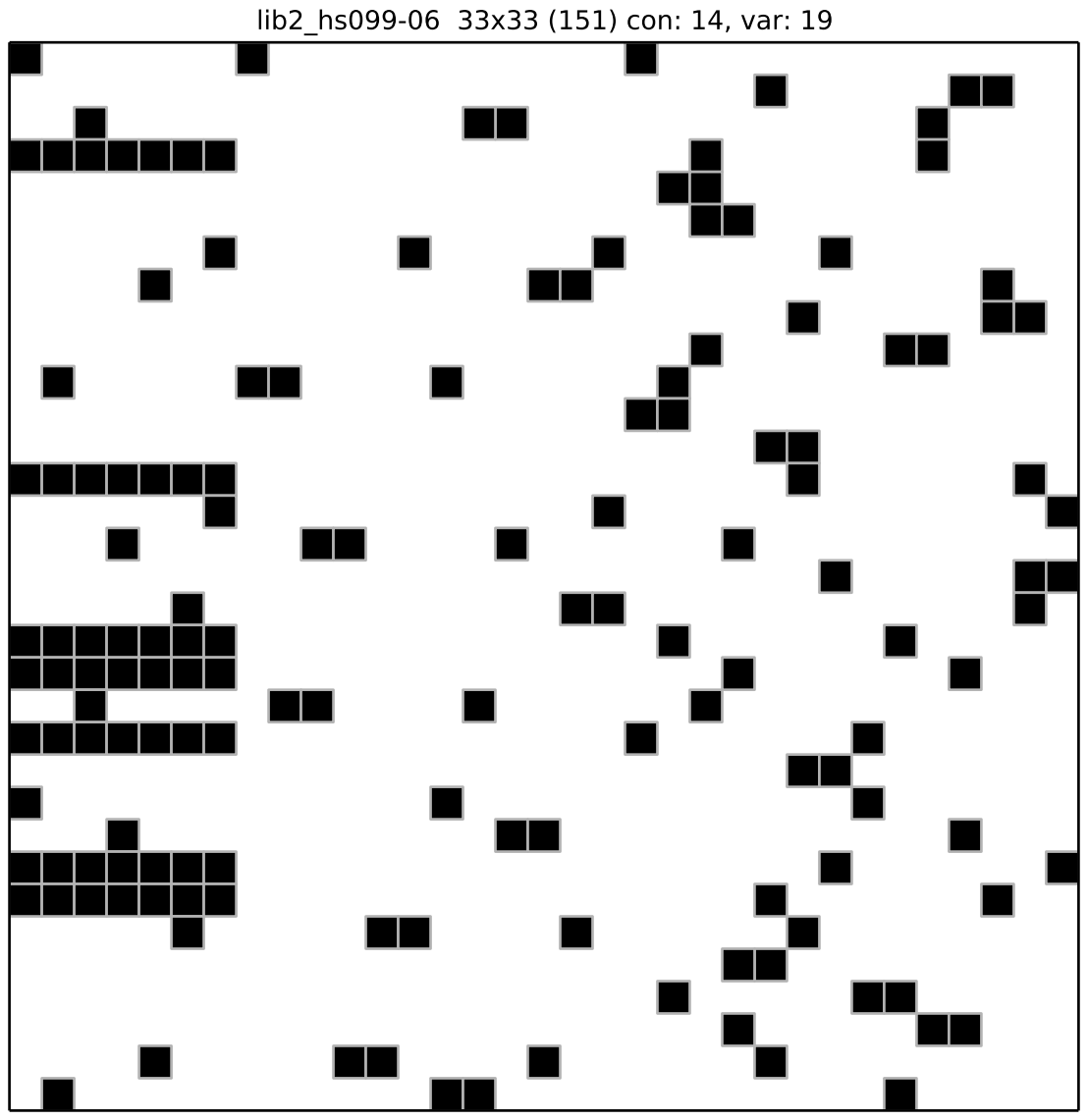

lib2_hs099-04 33x33 (151) con: 14, var: 19

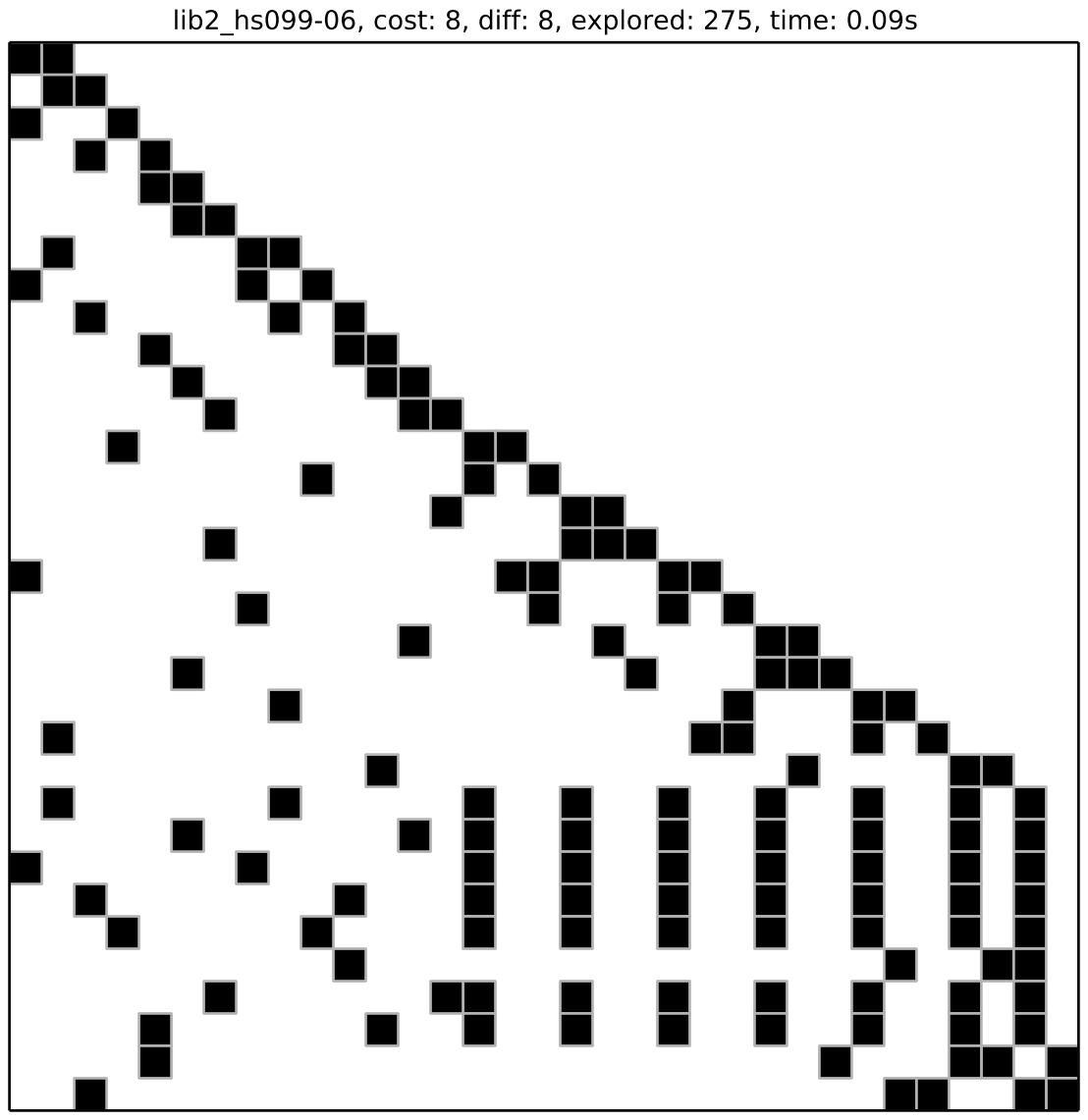

lib2_hs099-04, cost: 8, diff: 8, explored: 288, time: 0.09s

lib2_hs099-05 33x33 (151) con: 14, var: 19

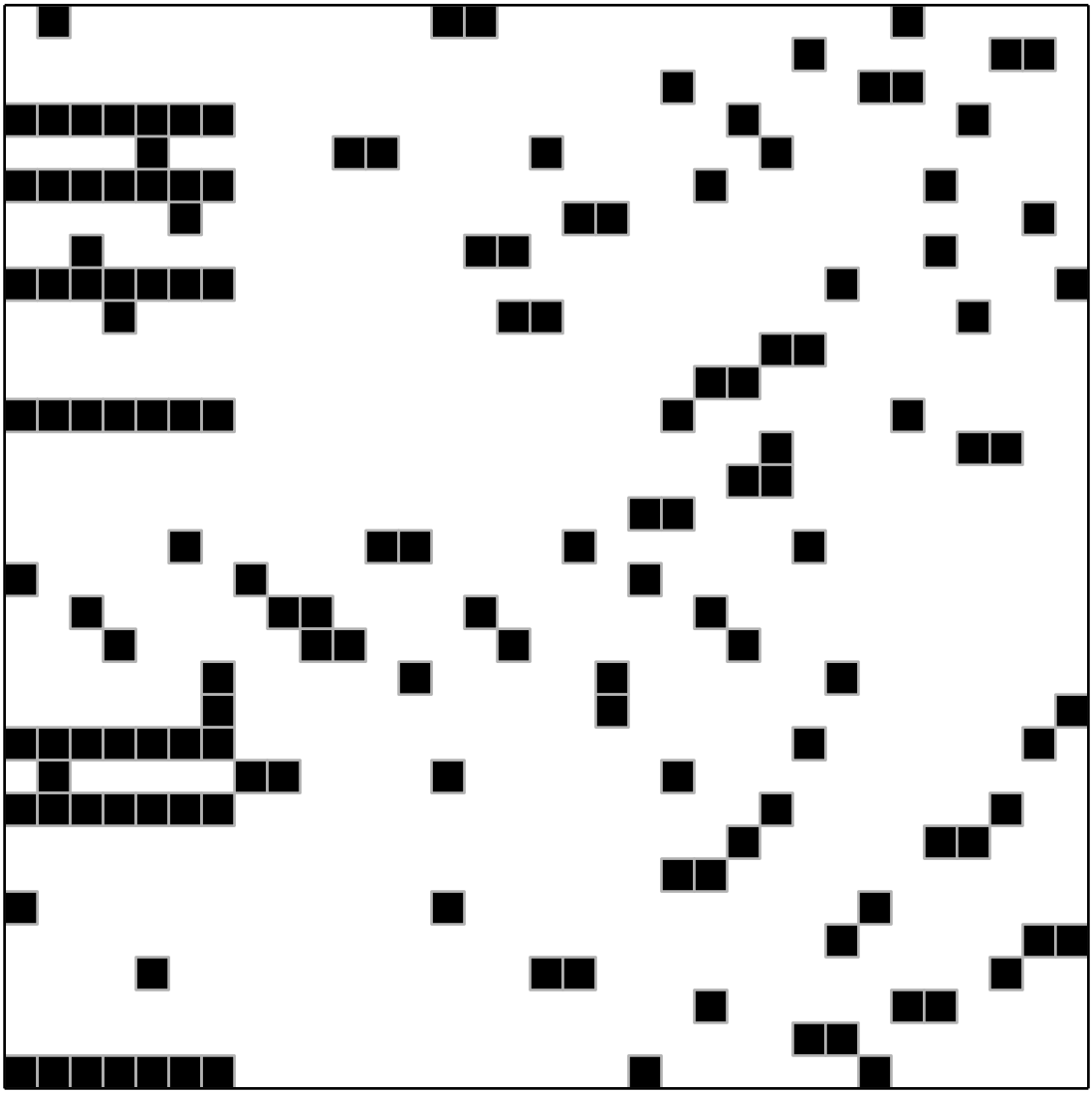


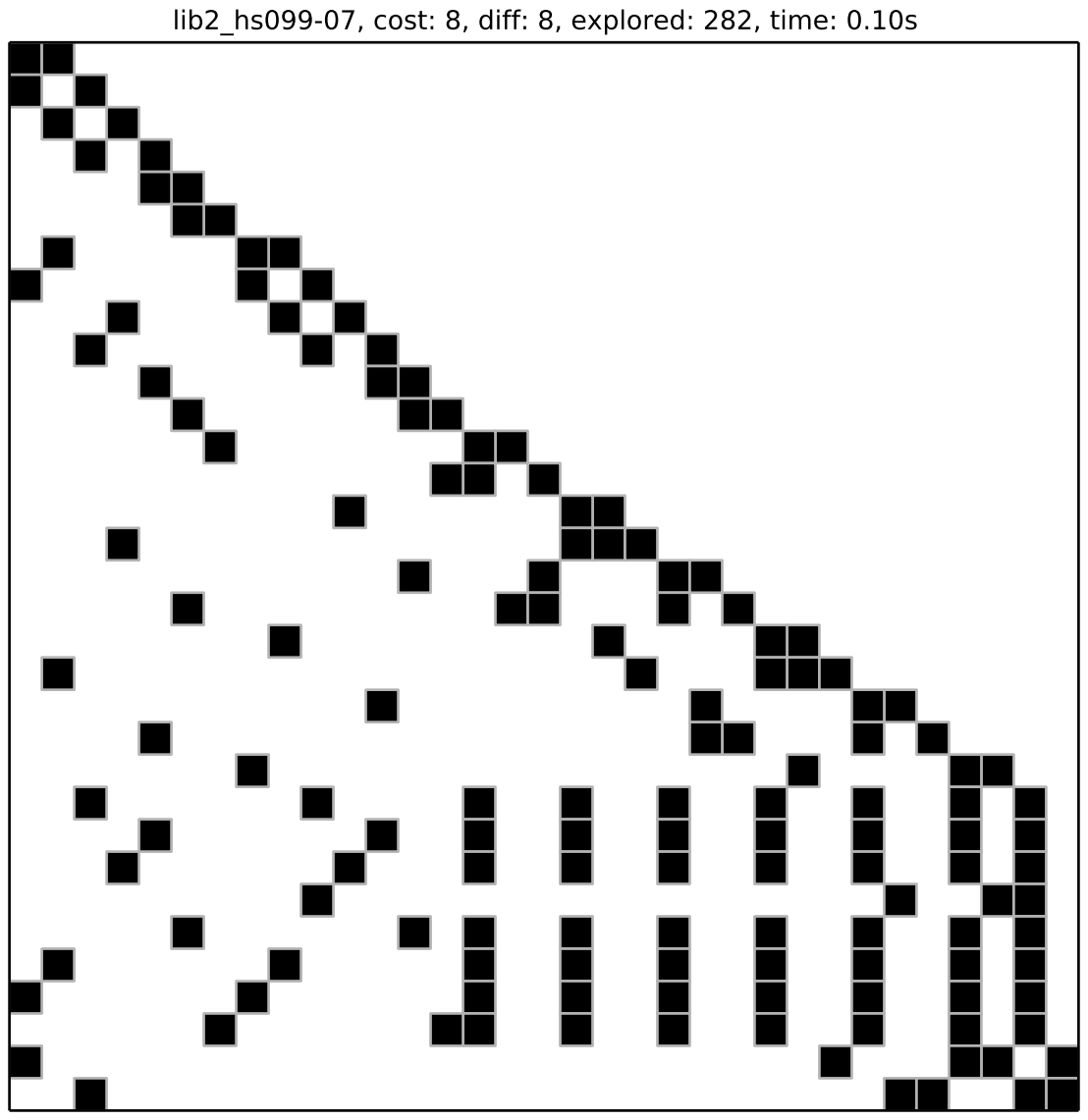

lib2_hs099-05, cost: 8, diff: 8, explored: 287, time: 0.09s


lib2_hs099-06 33x33 (151) con: 14, var: 19

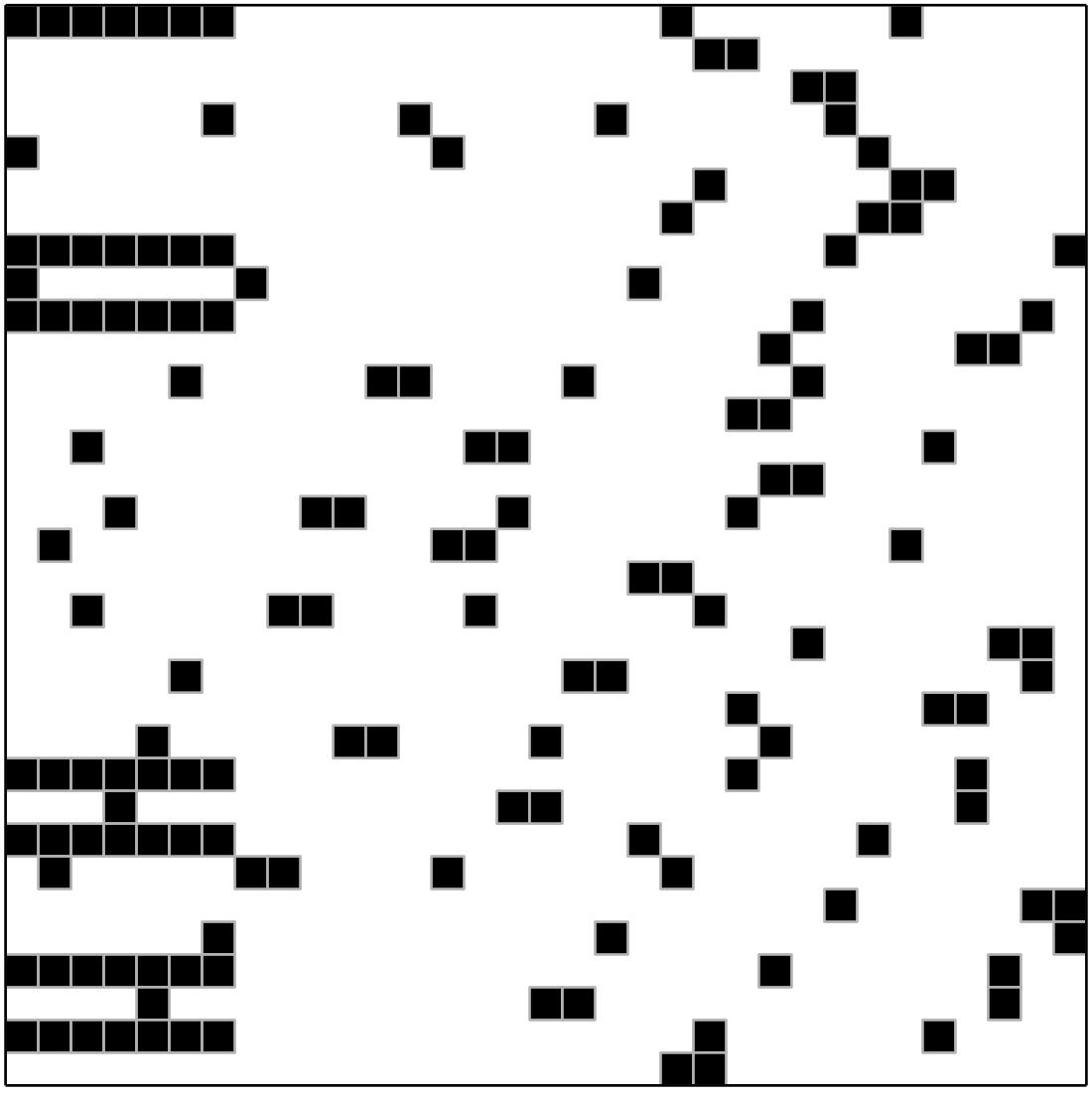

lib2_hs099-06, cost: 8, diff: 8, explored: 275, time: 0.09s

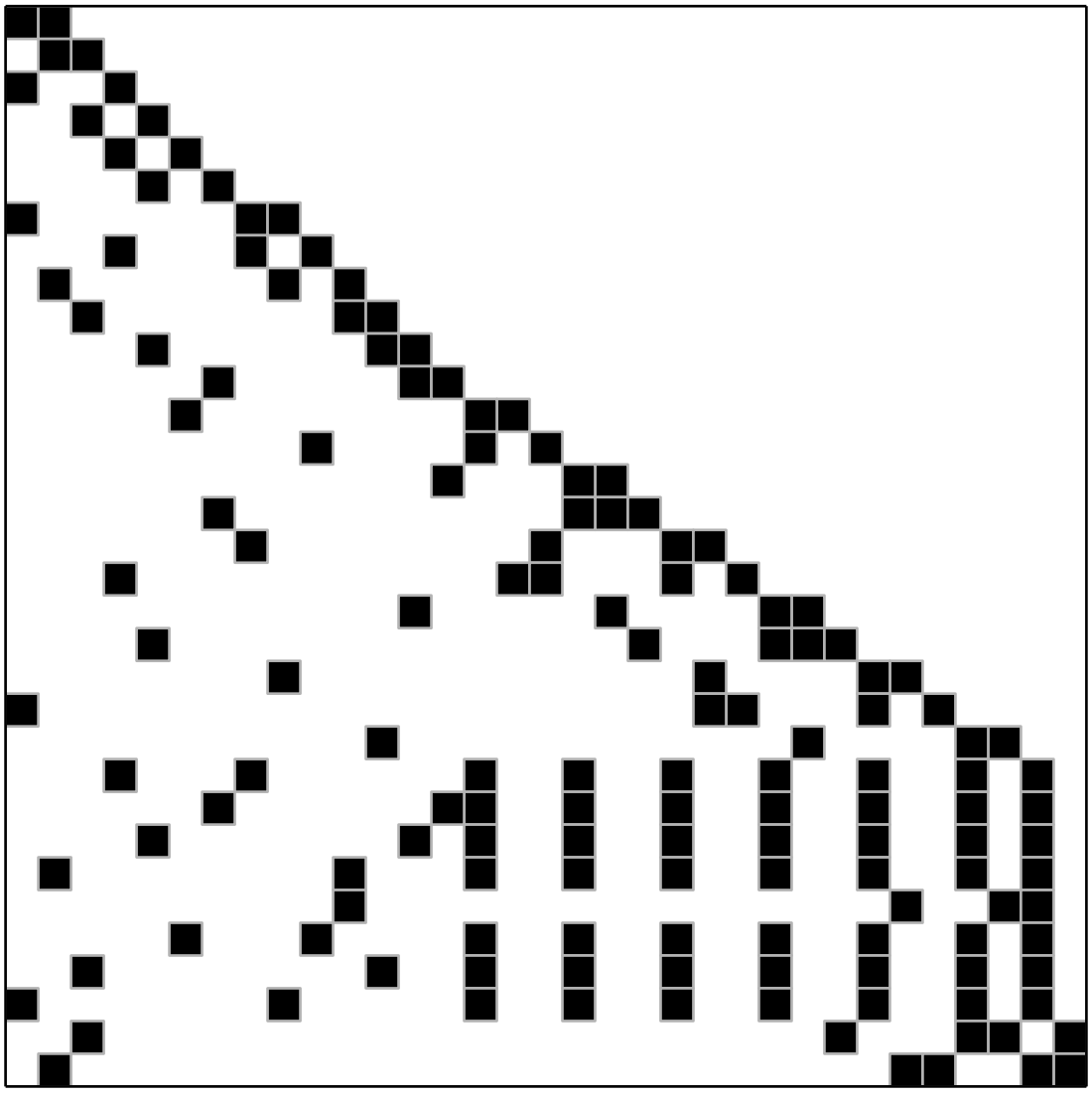
lib2_hs099-07 33x33 (151) con: 14, var: 19



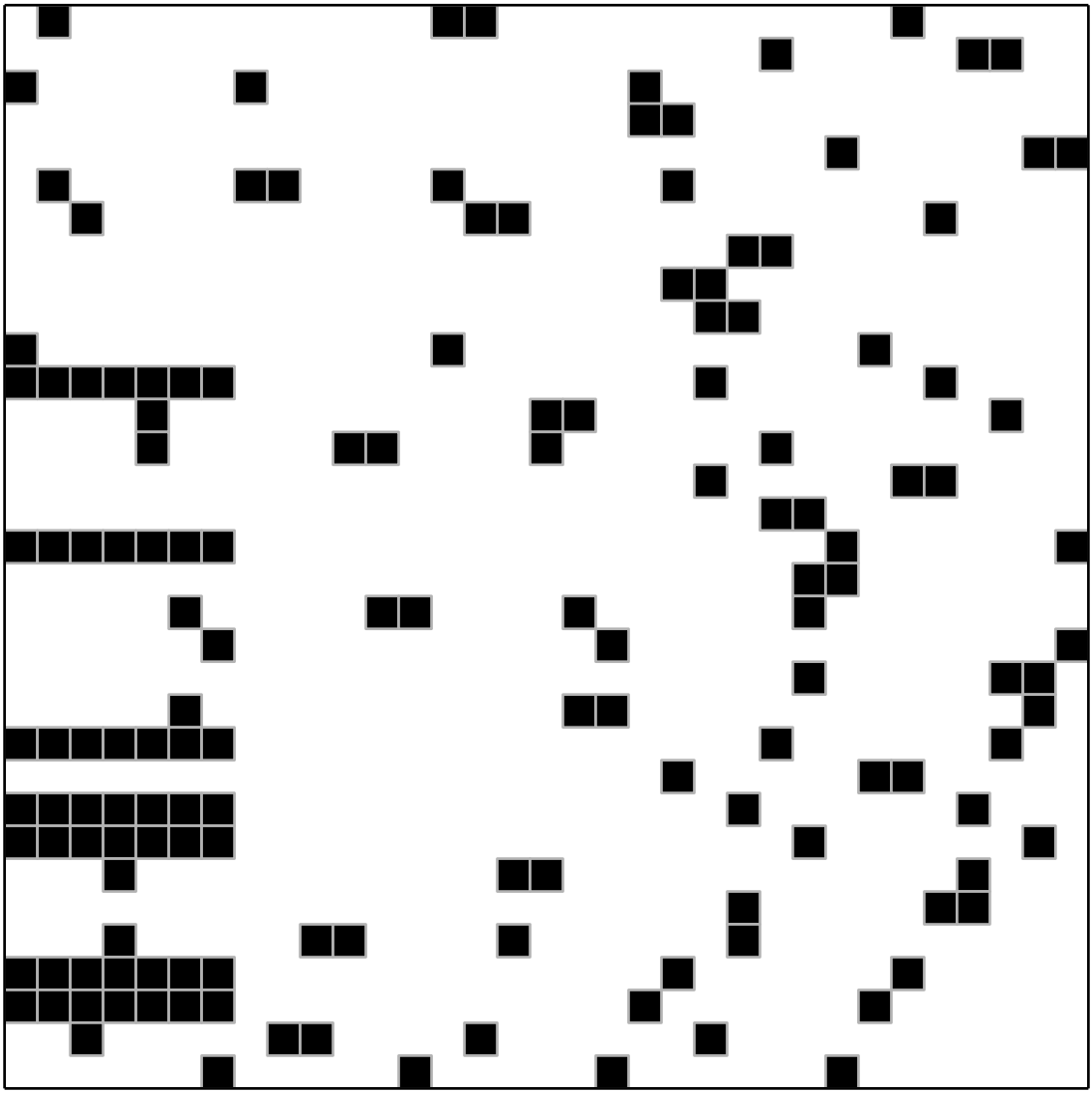

lib2_hs099-07, cost: 8, diff: 8, explored: 282, time: 0.10s

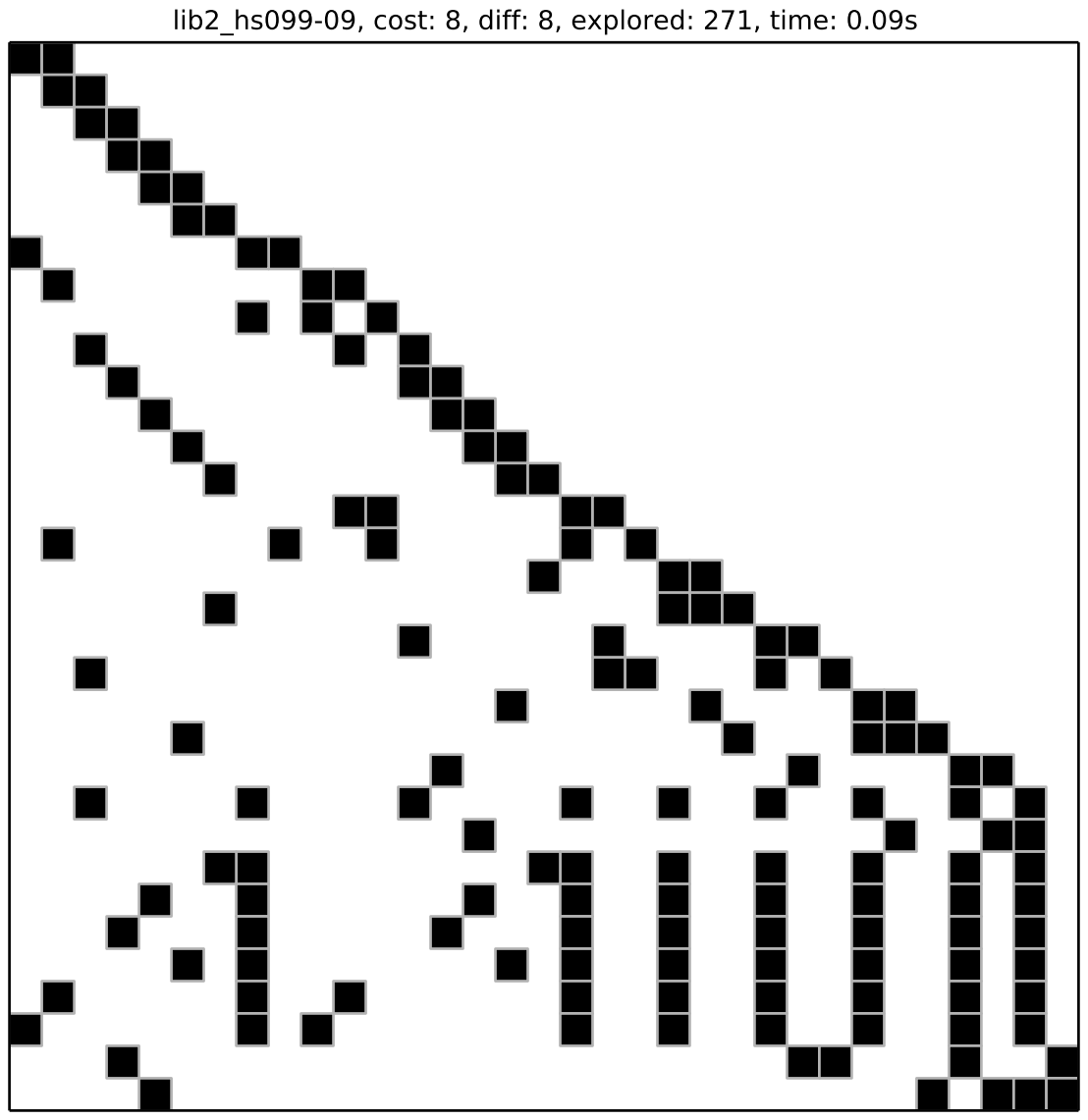
lib2_hs099-08 33x33 (151) con: 14, var: 19




lib2_hs099-08, cost: 8, diff: 8, explored: 291, time: 0.09s

lib2_hs099-09 33x33 (151) con: 14, var: 19

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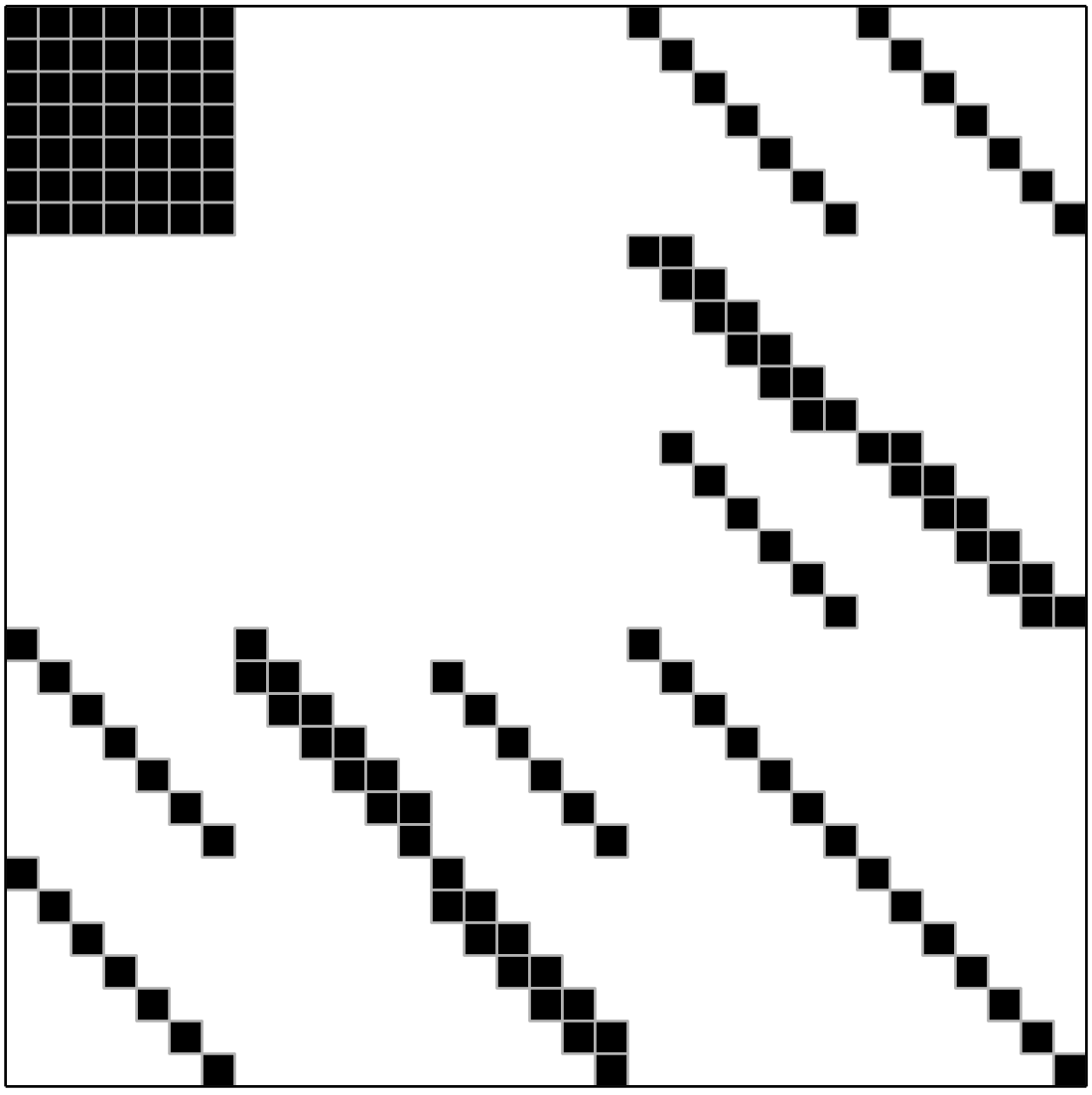
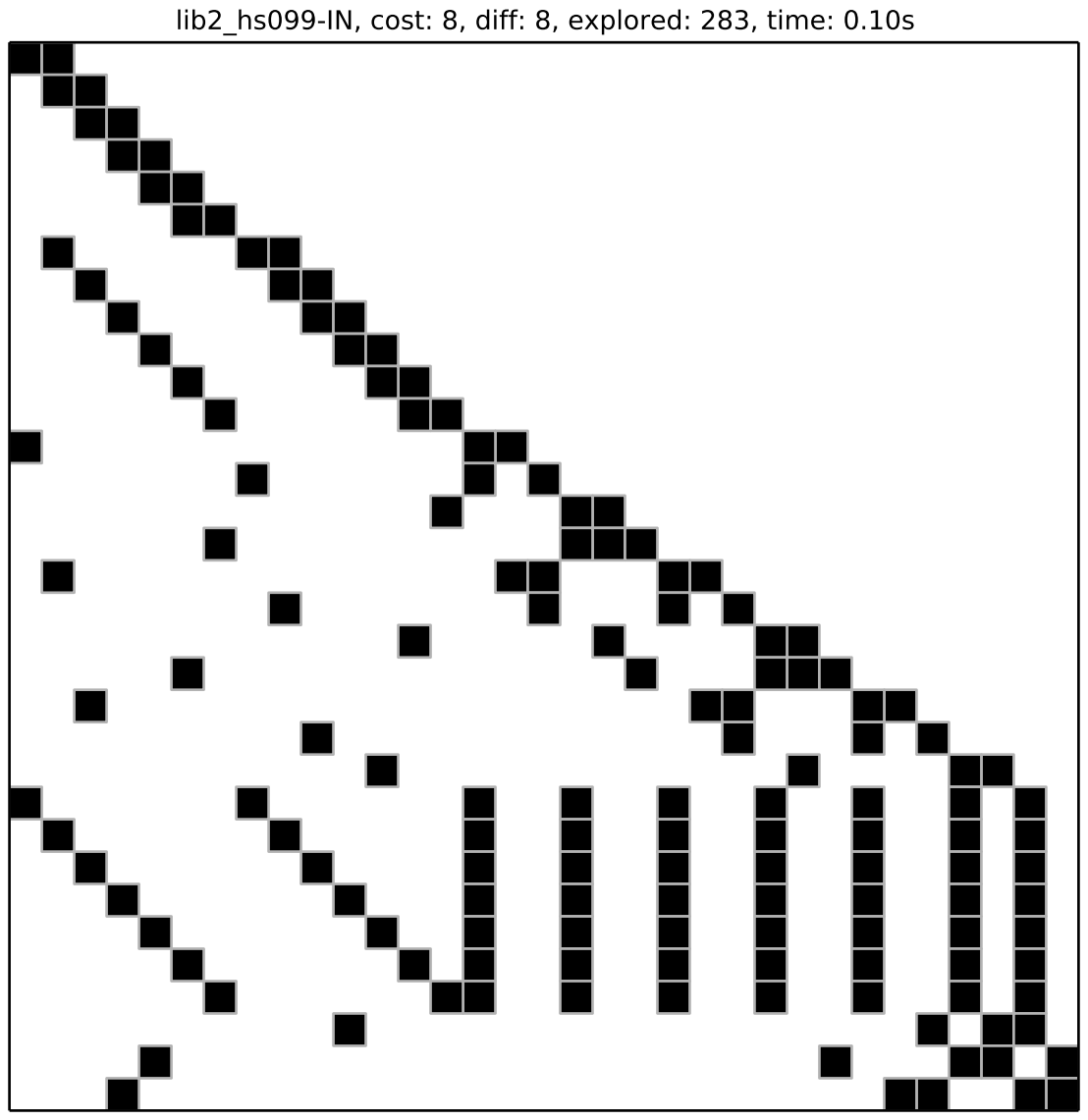

lib2_hs099-IN 33x33 (151) con: 14, var: 19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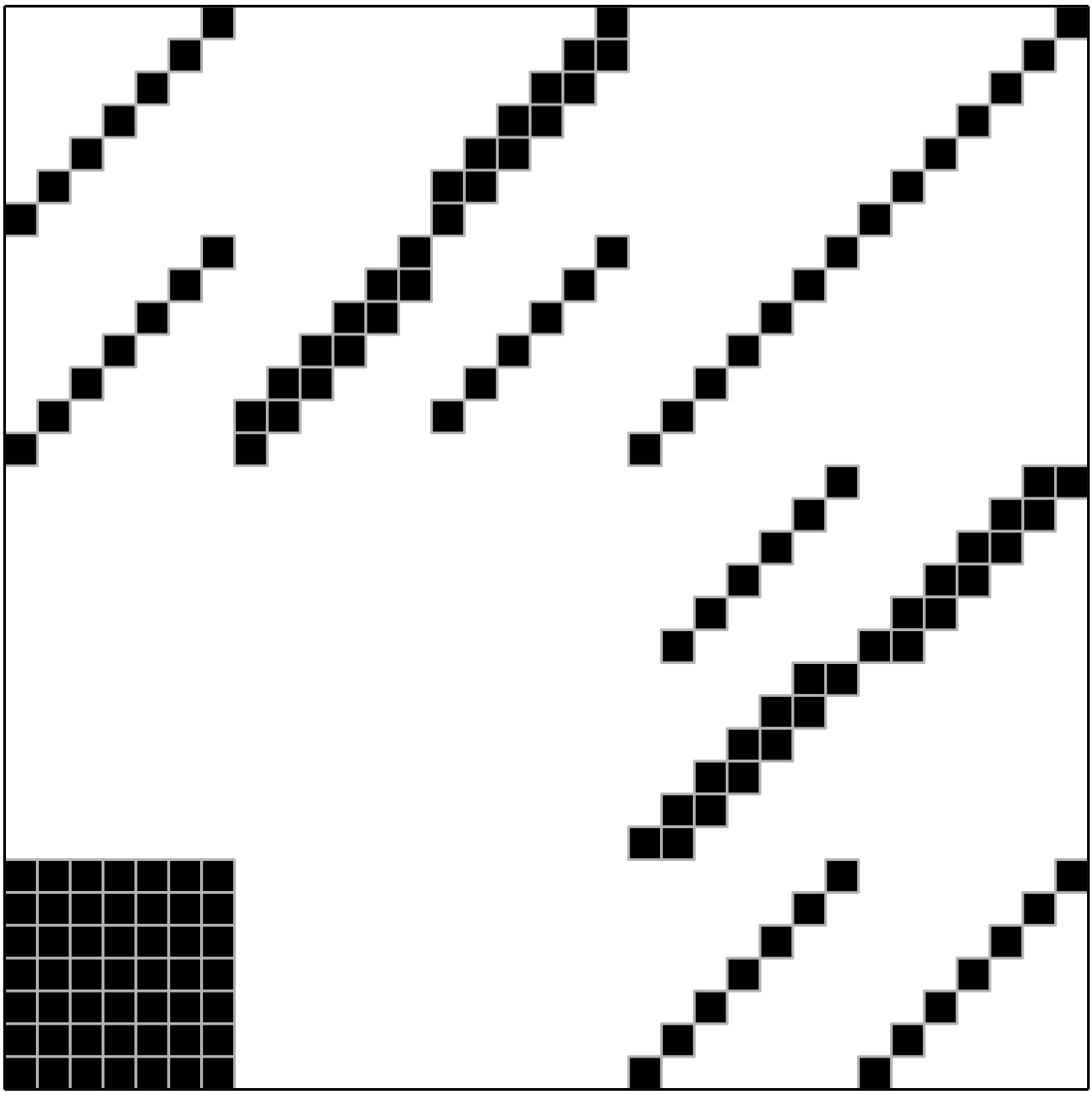
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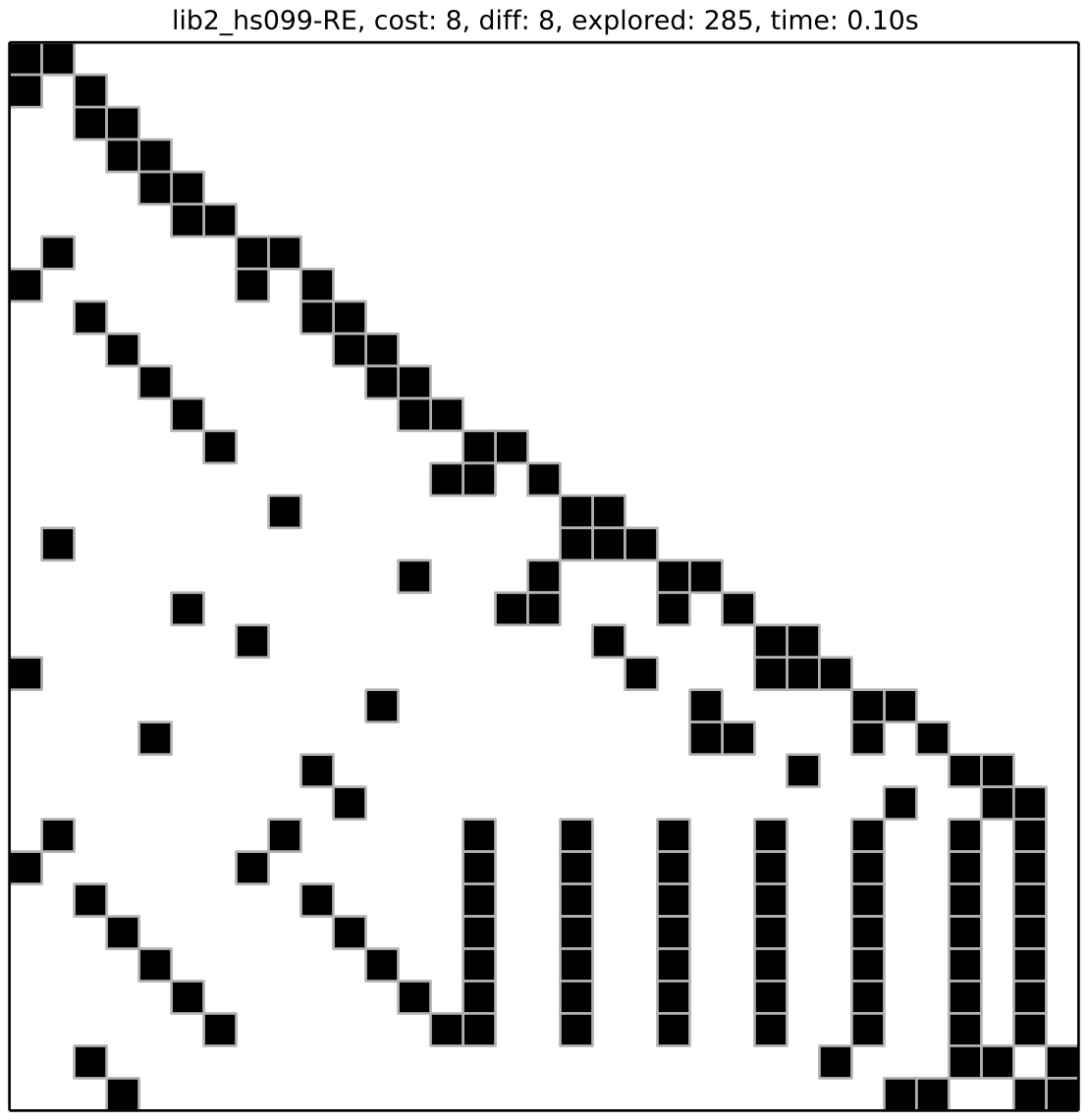
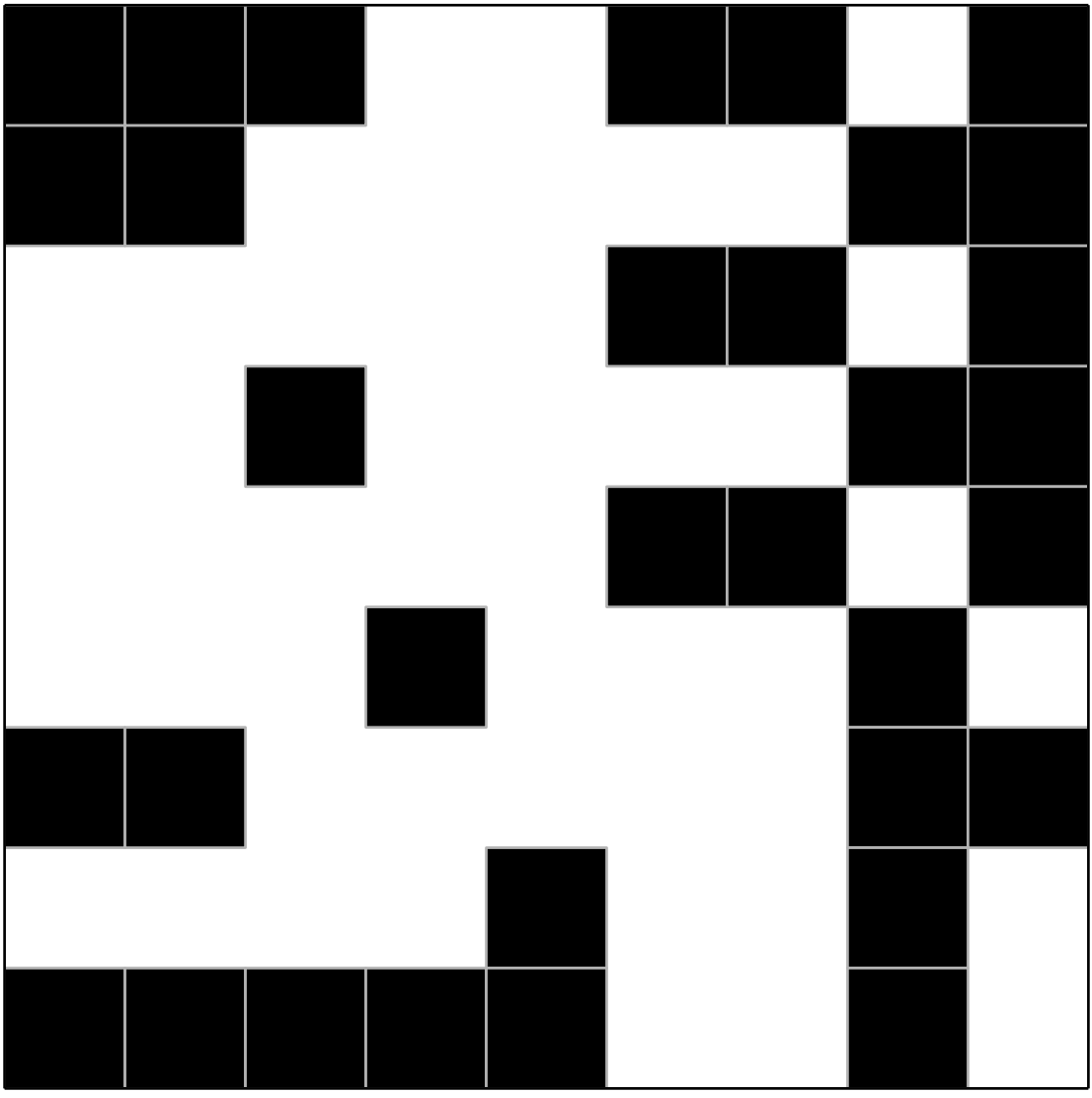
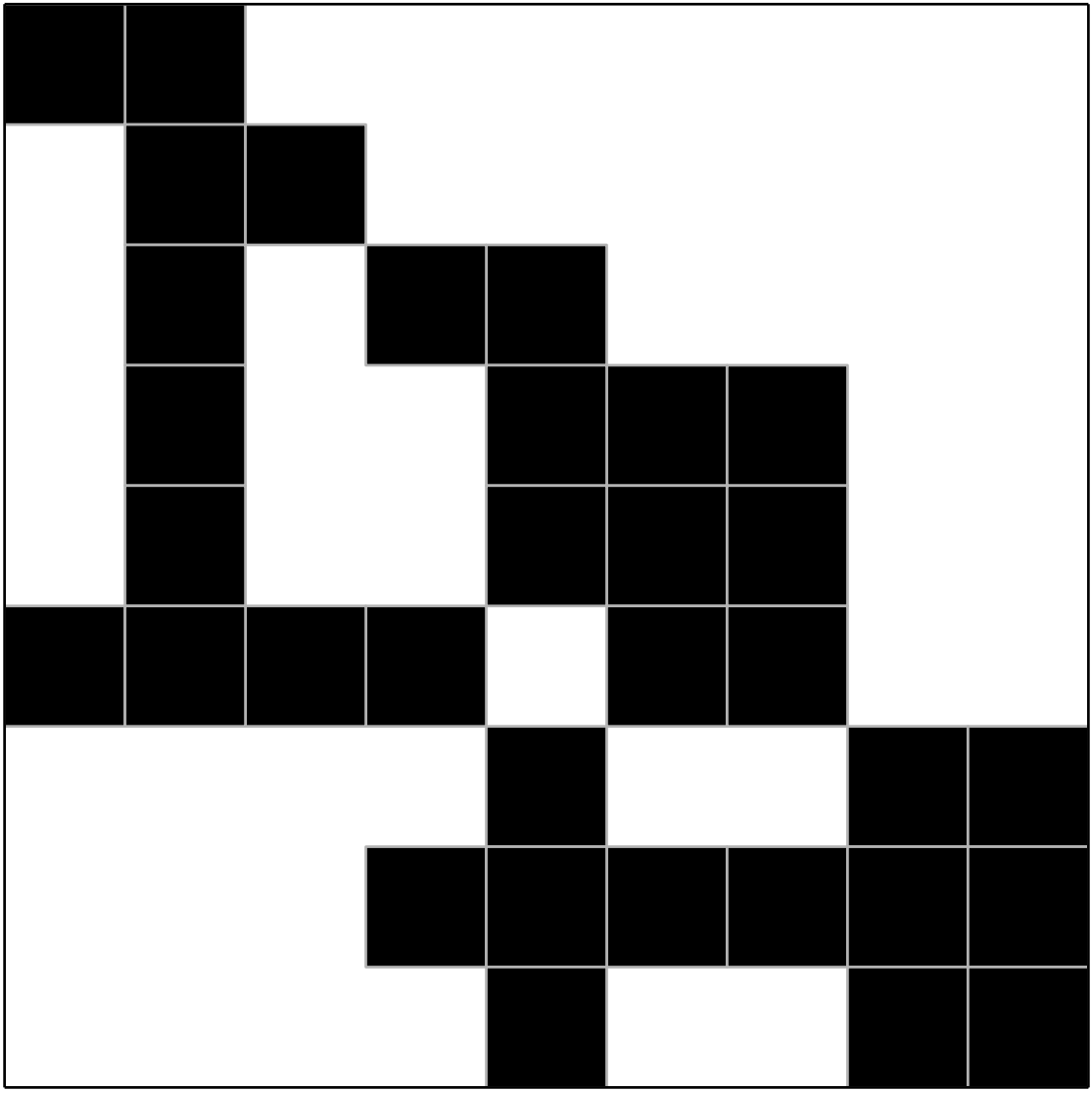

lib2_hs099-RE, cost: 8, diff: 8, explored: 285, time: 0.10s

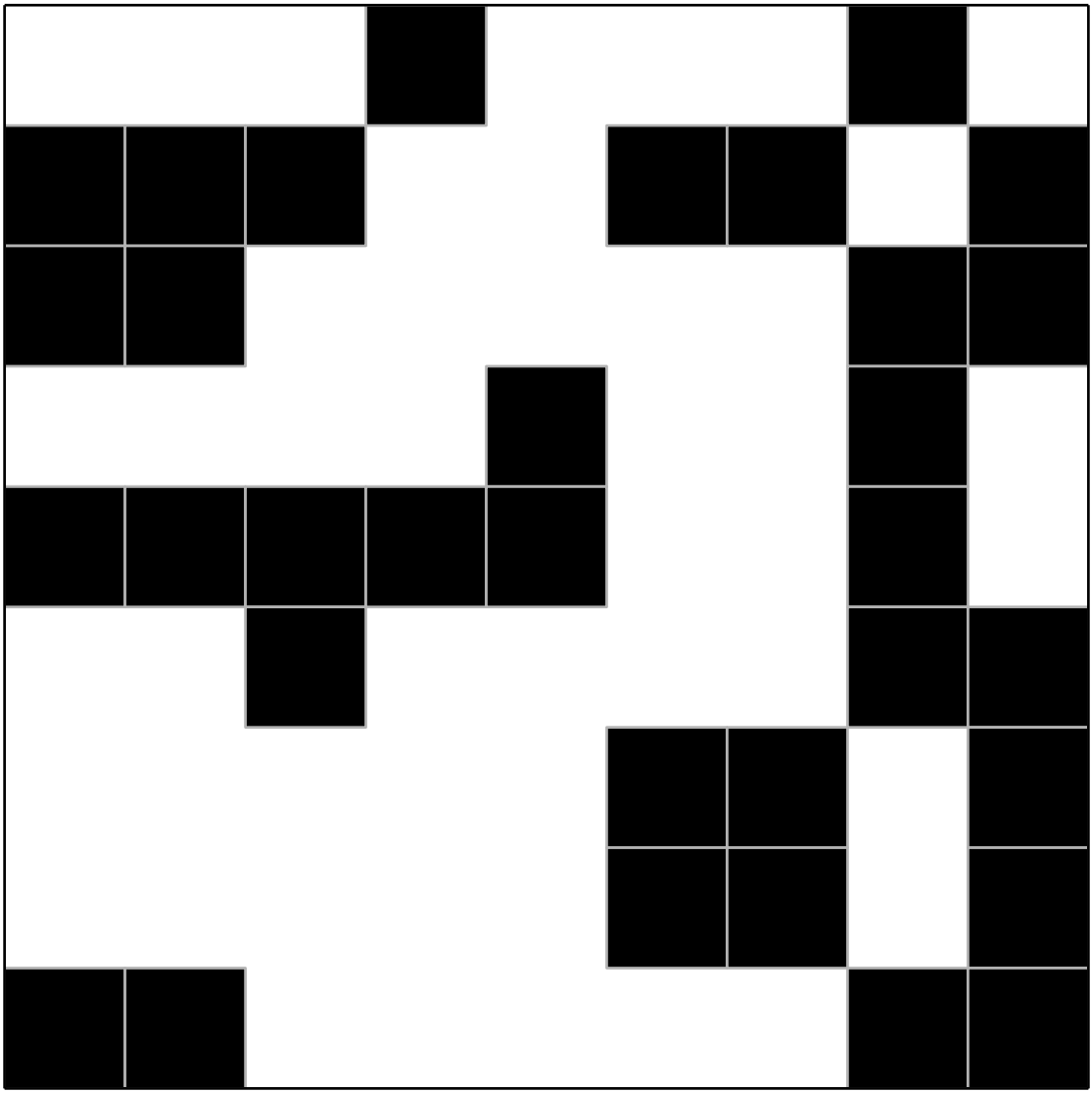
lib2_hs100lnp-00 9x9 (33) con: 2, var: 7



lib2_hs100lnp-00, cost: 4, diff: 4, explored: 7, time: 0.00s



lib2_hs100lnp-01 9x9 (33) con: 2, var: 7



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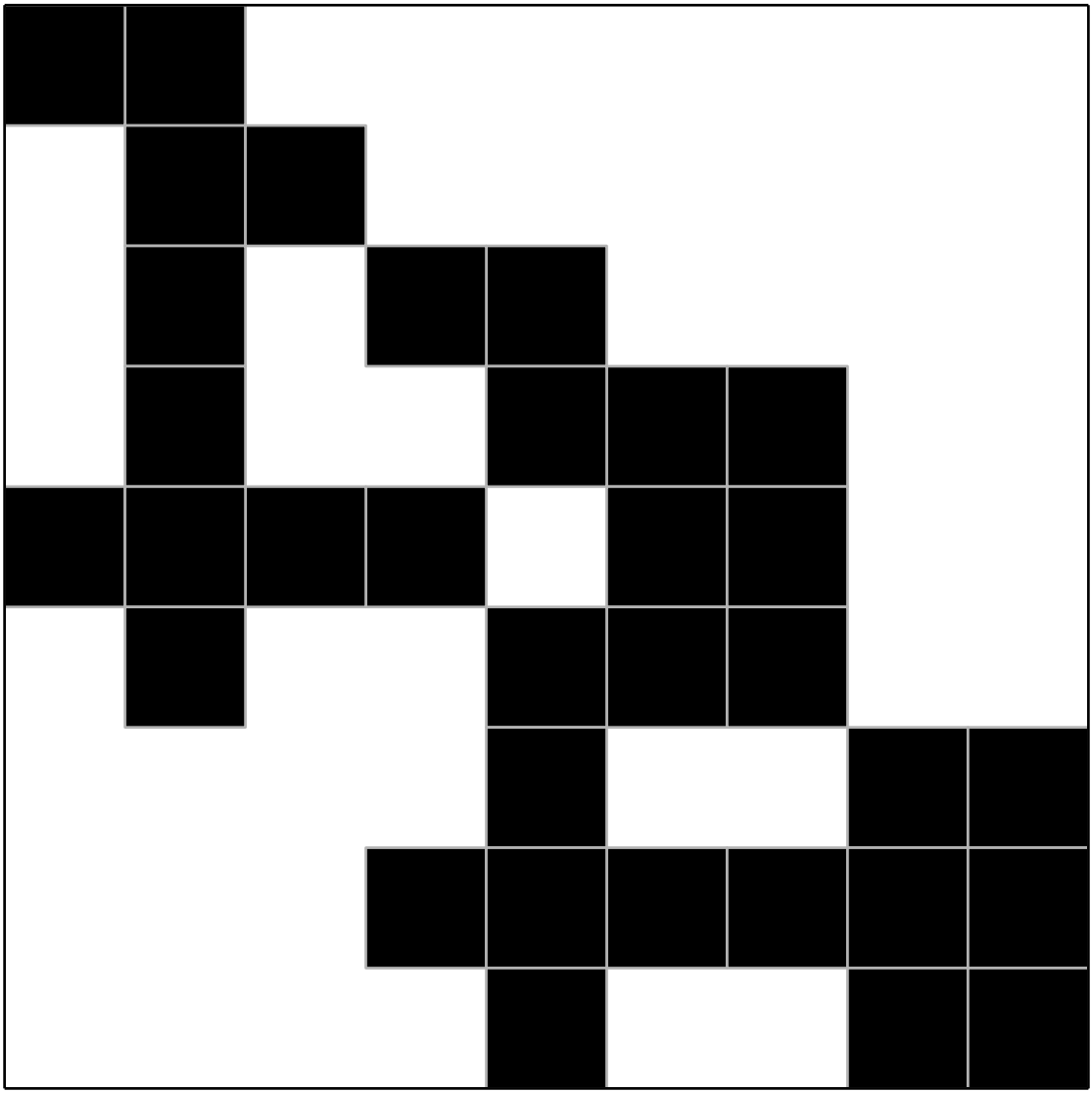

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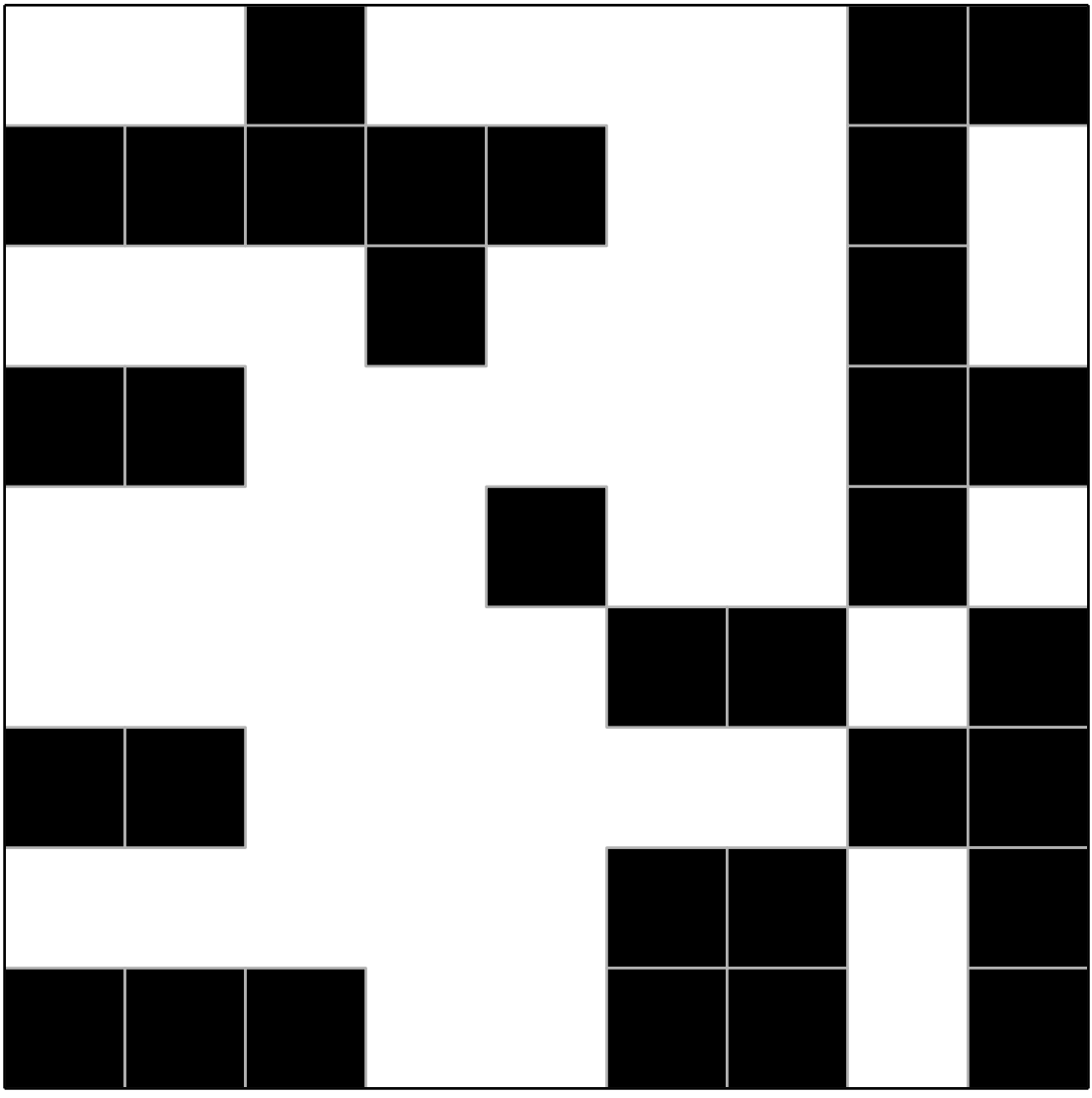

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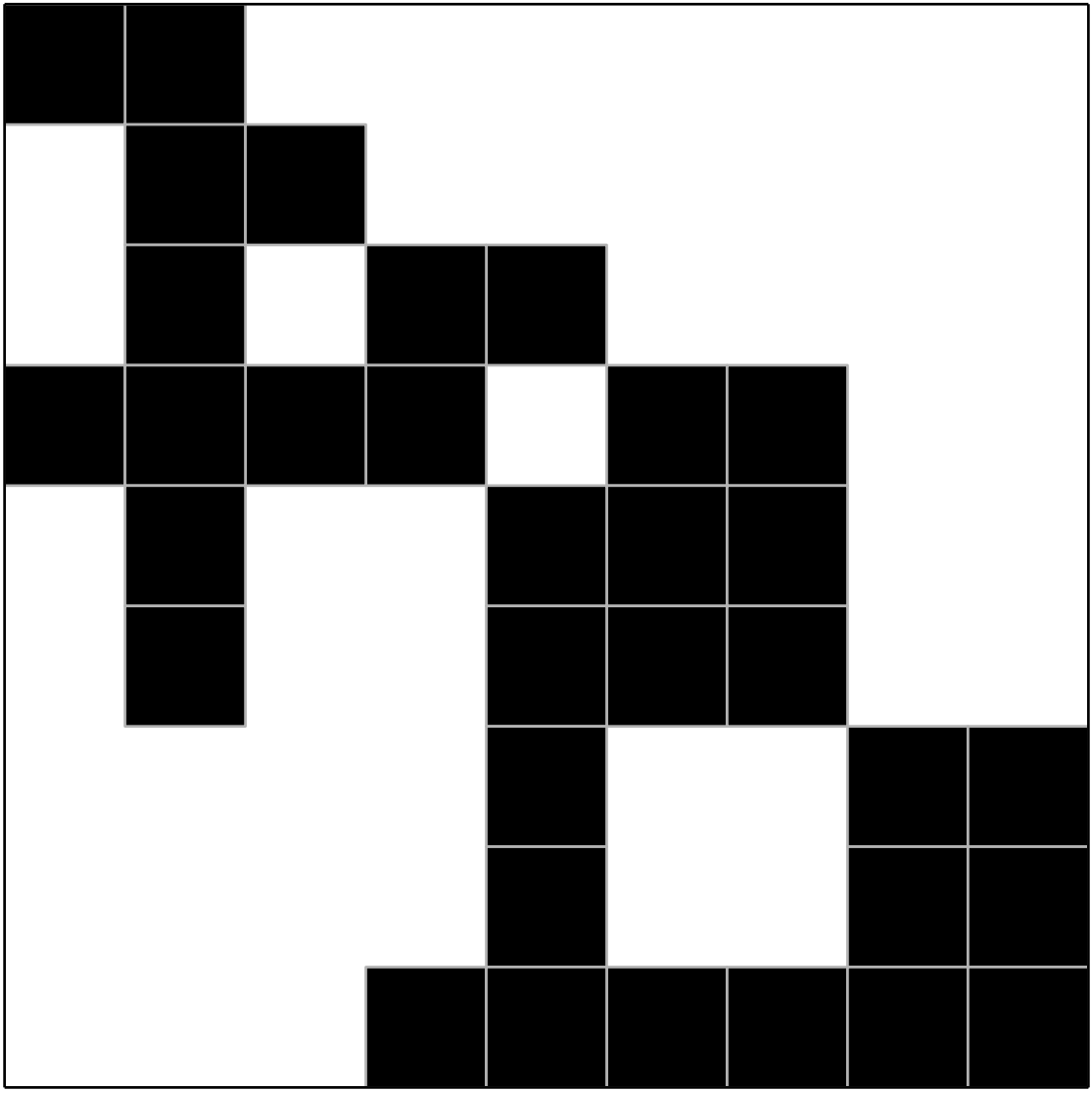

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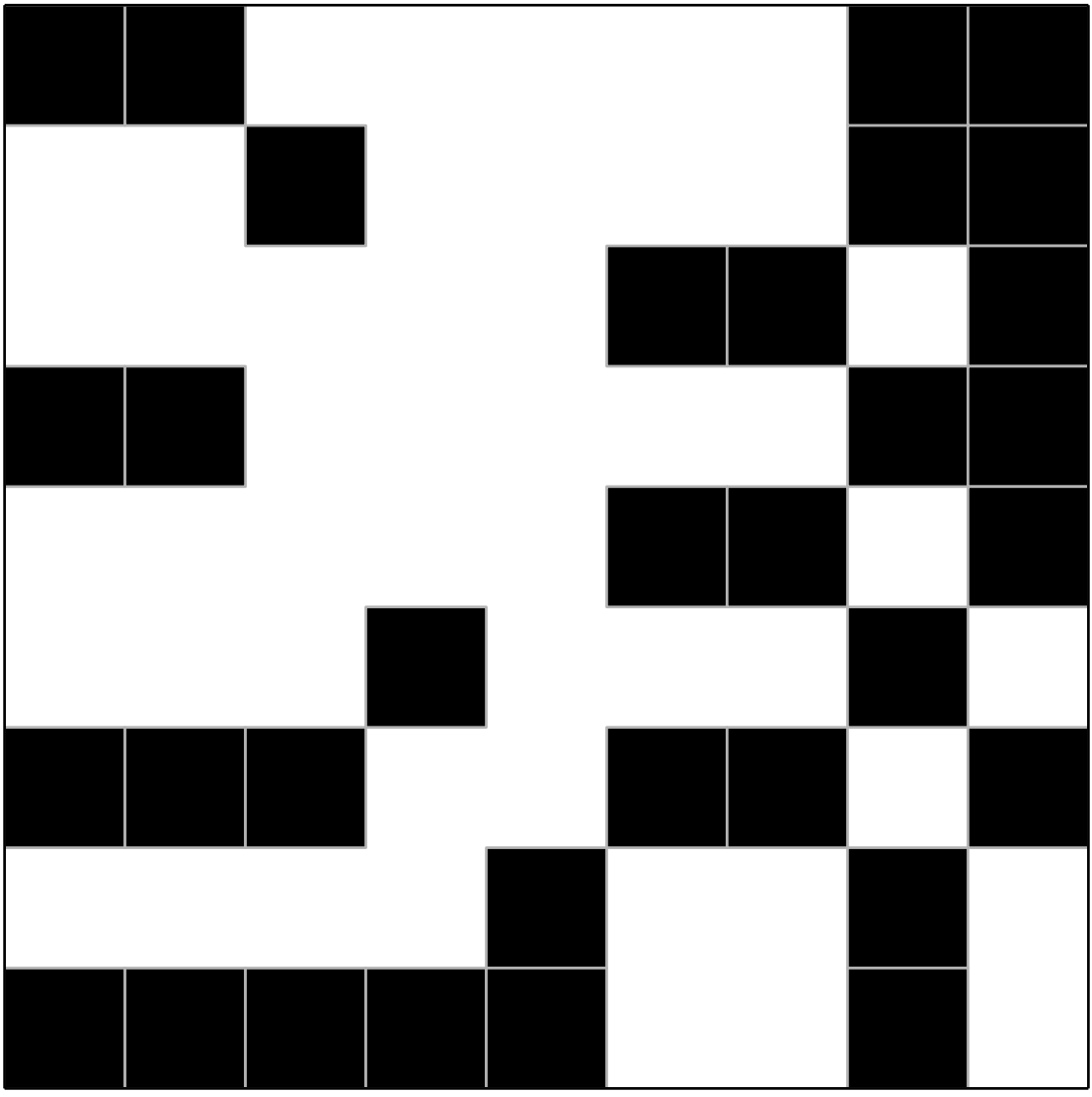

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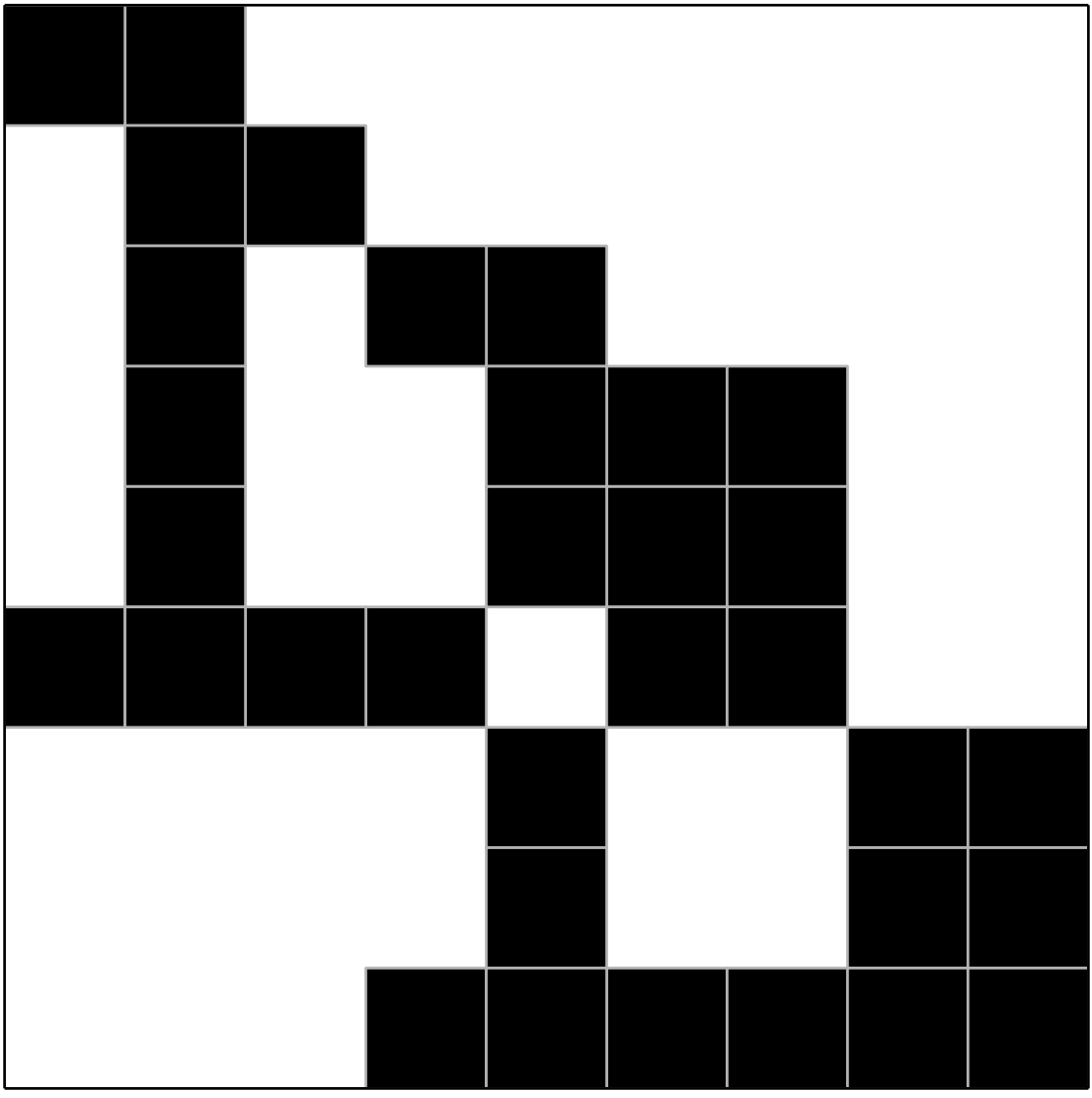

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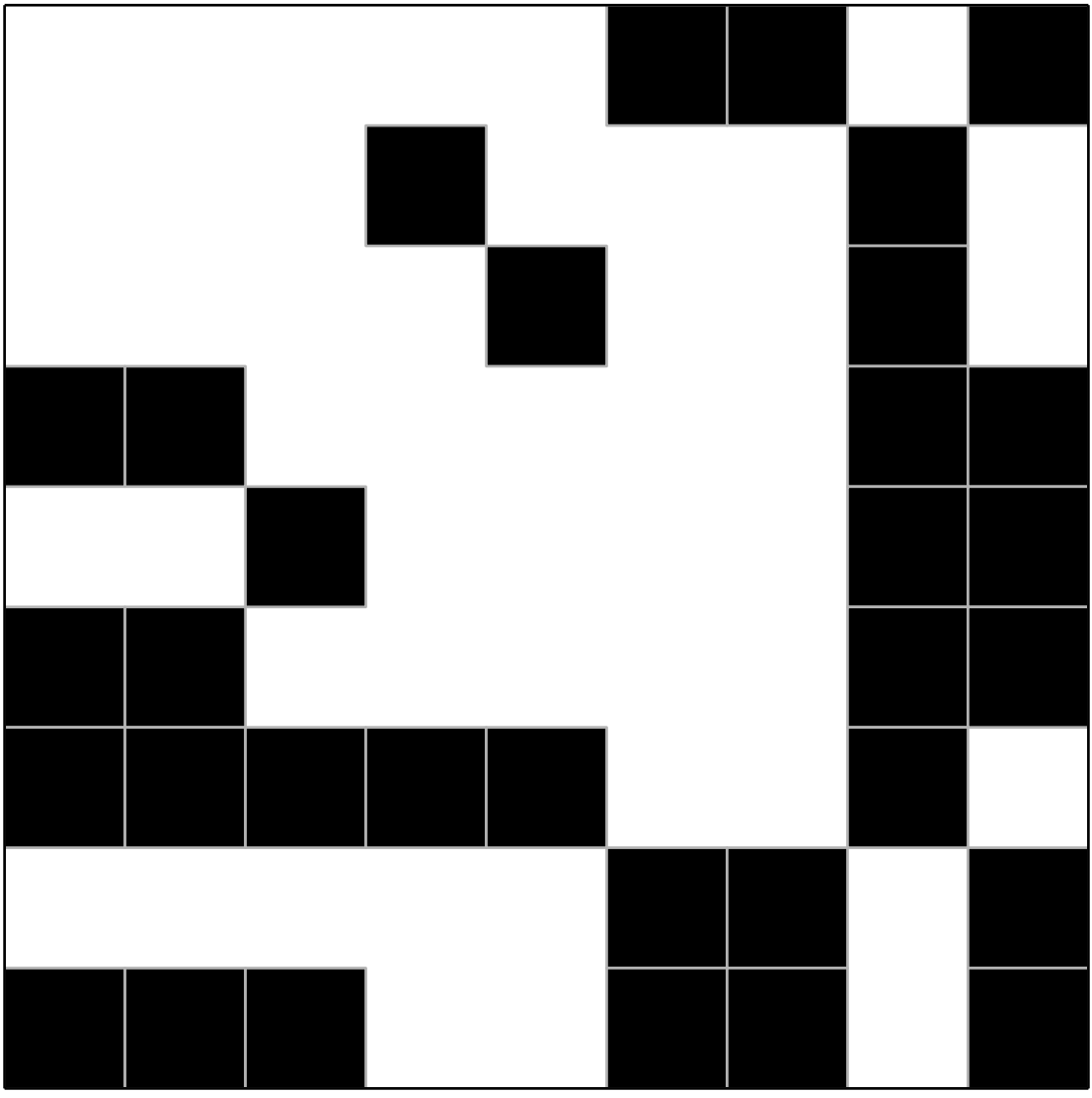

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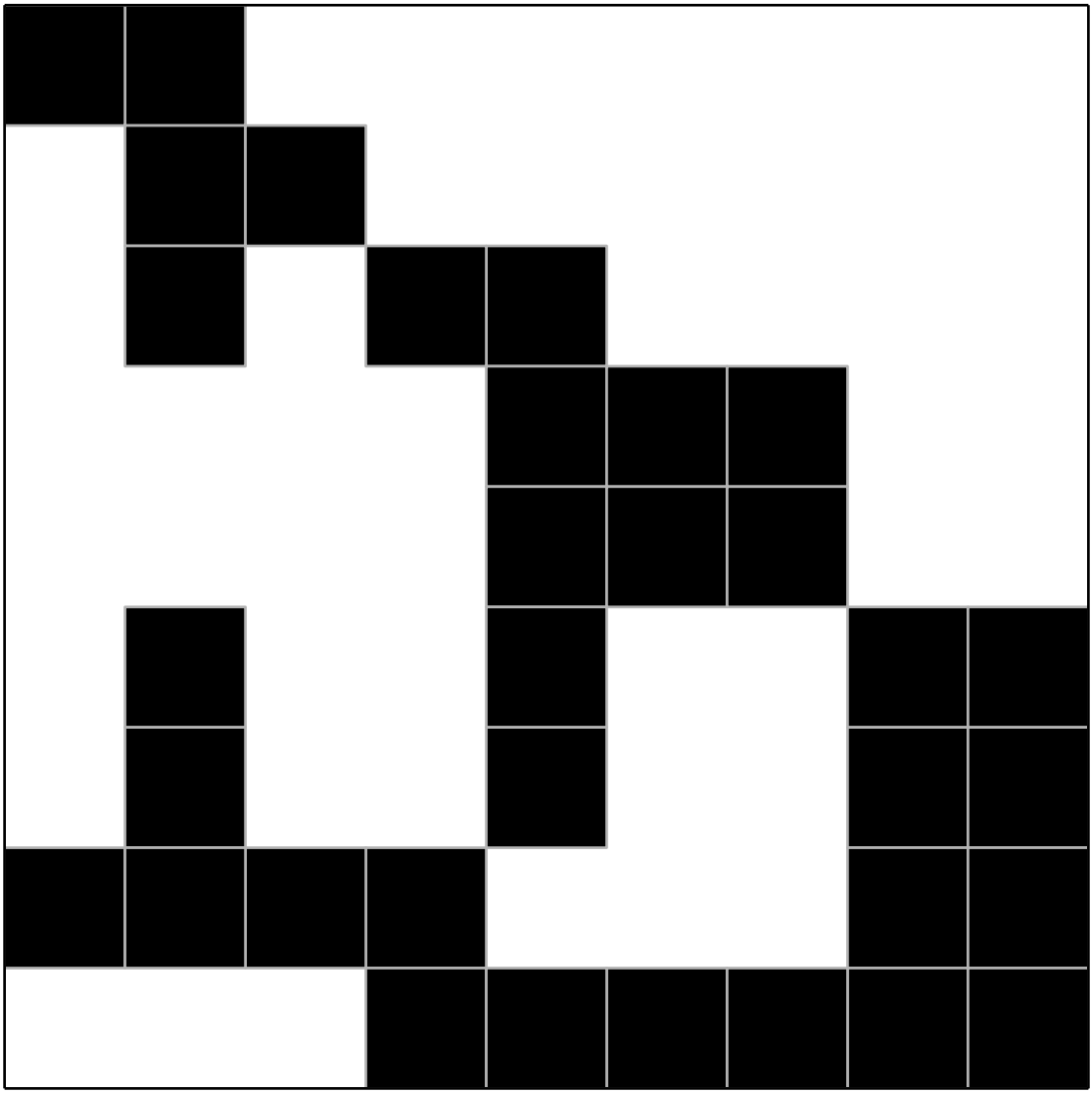

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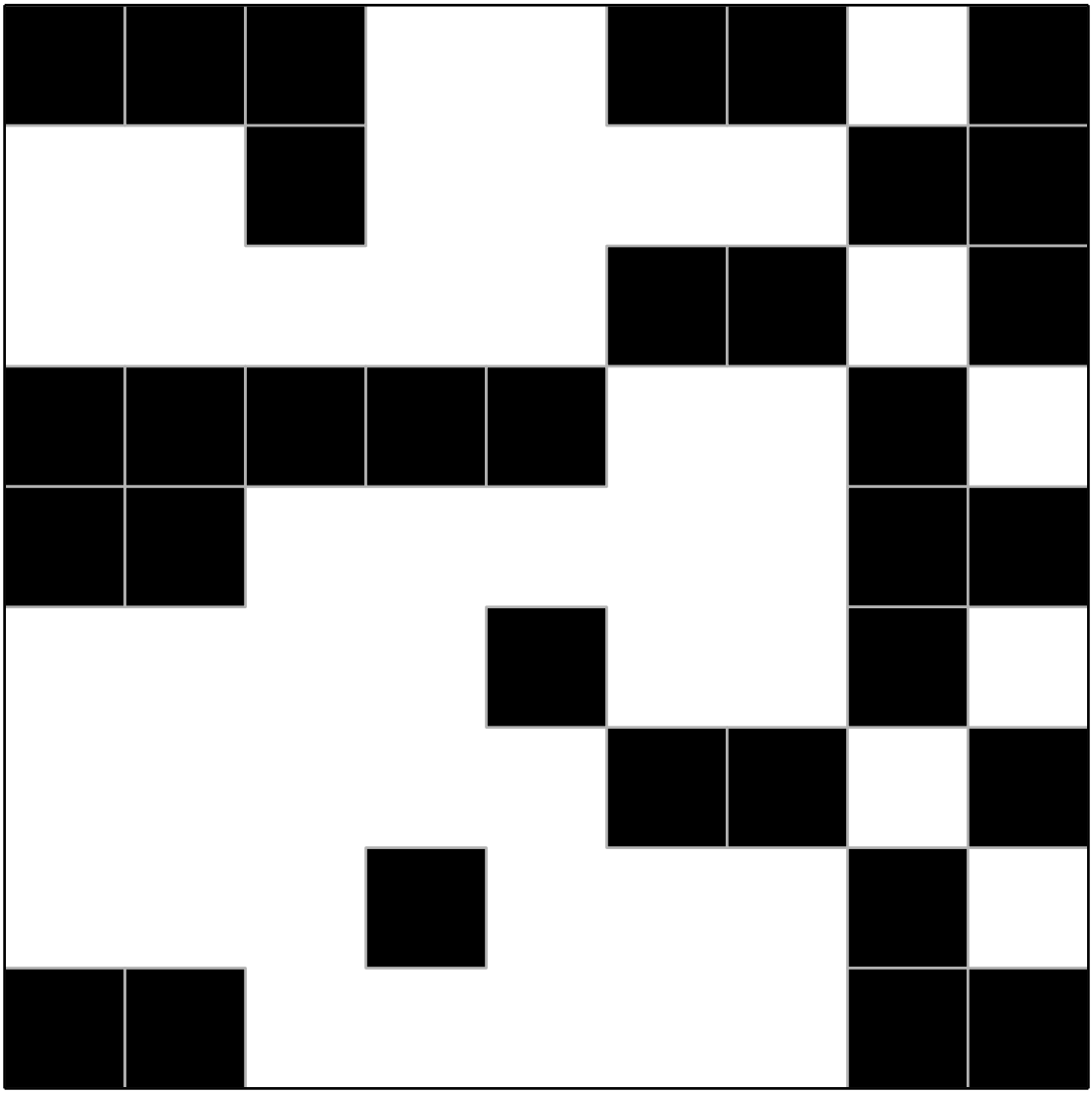

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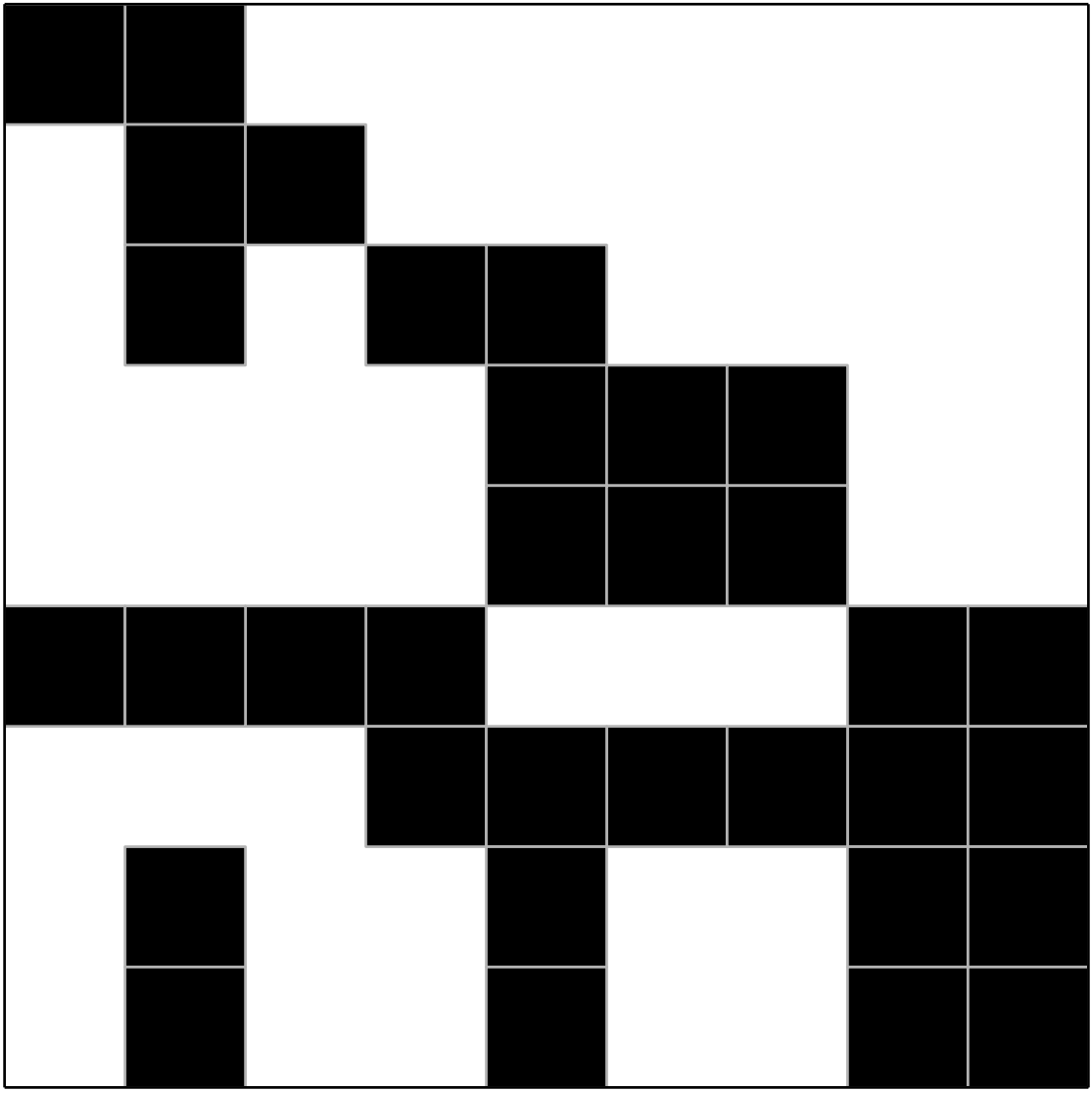

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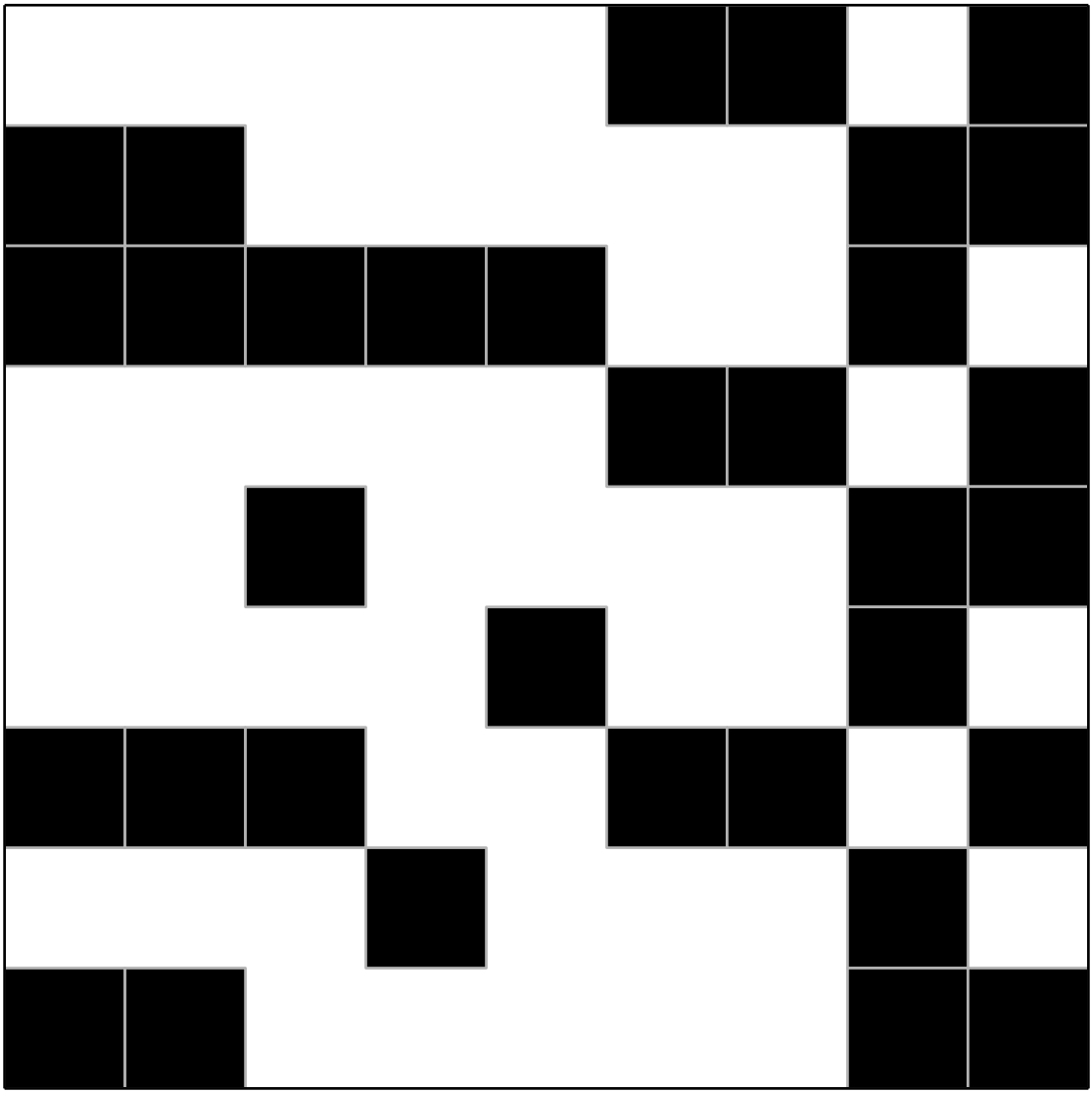

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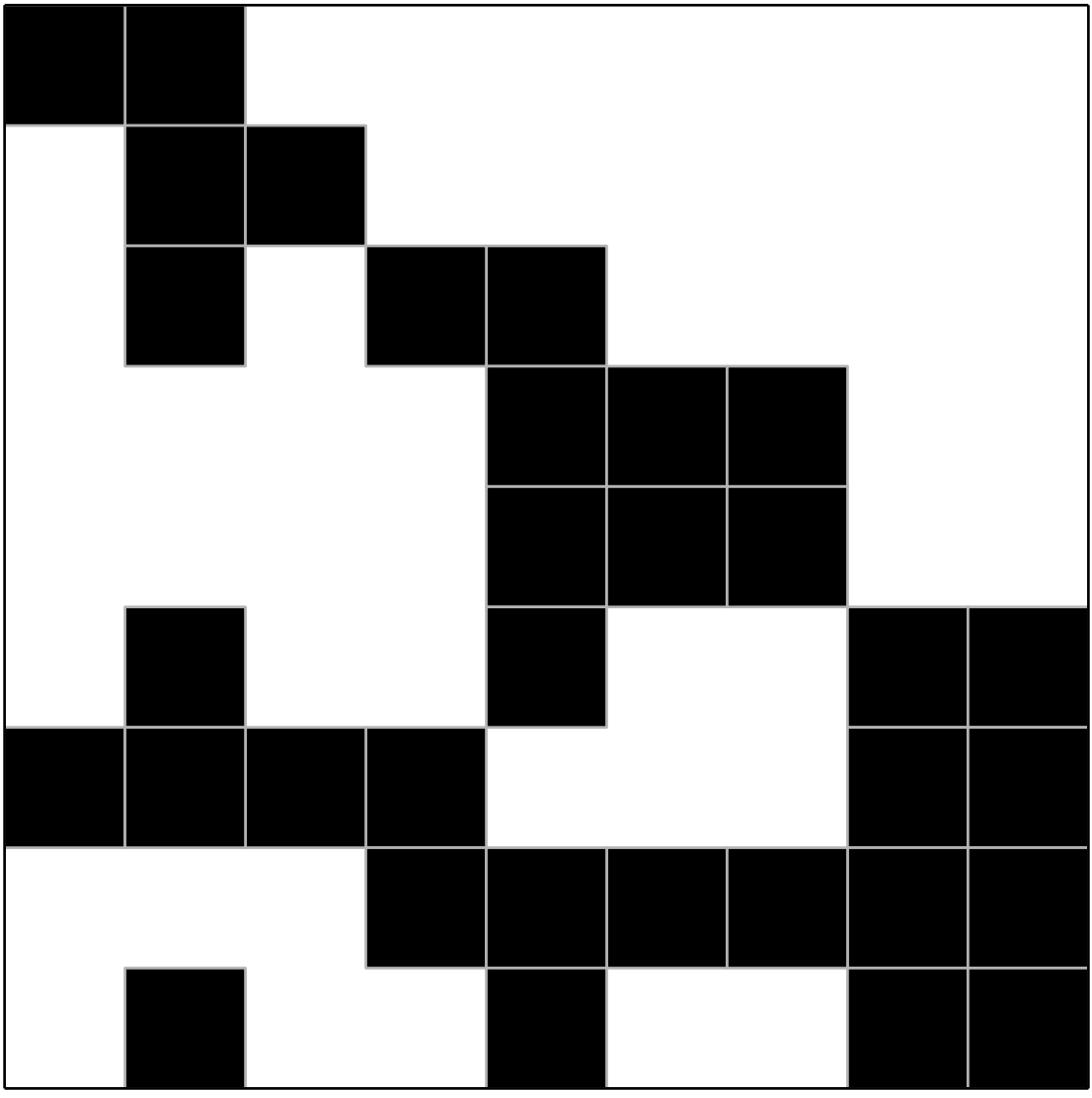

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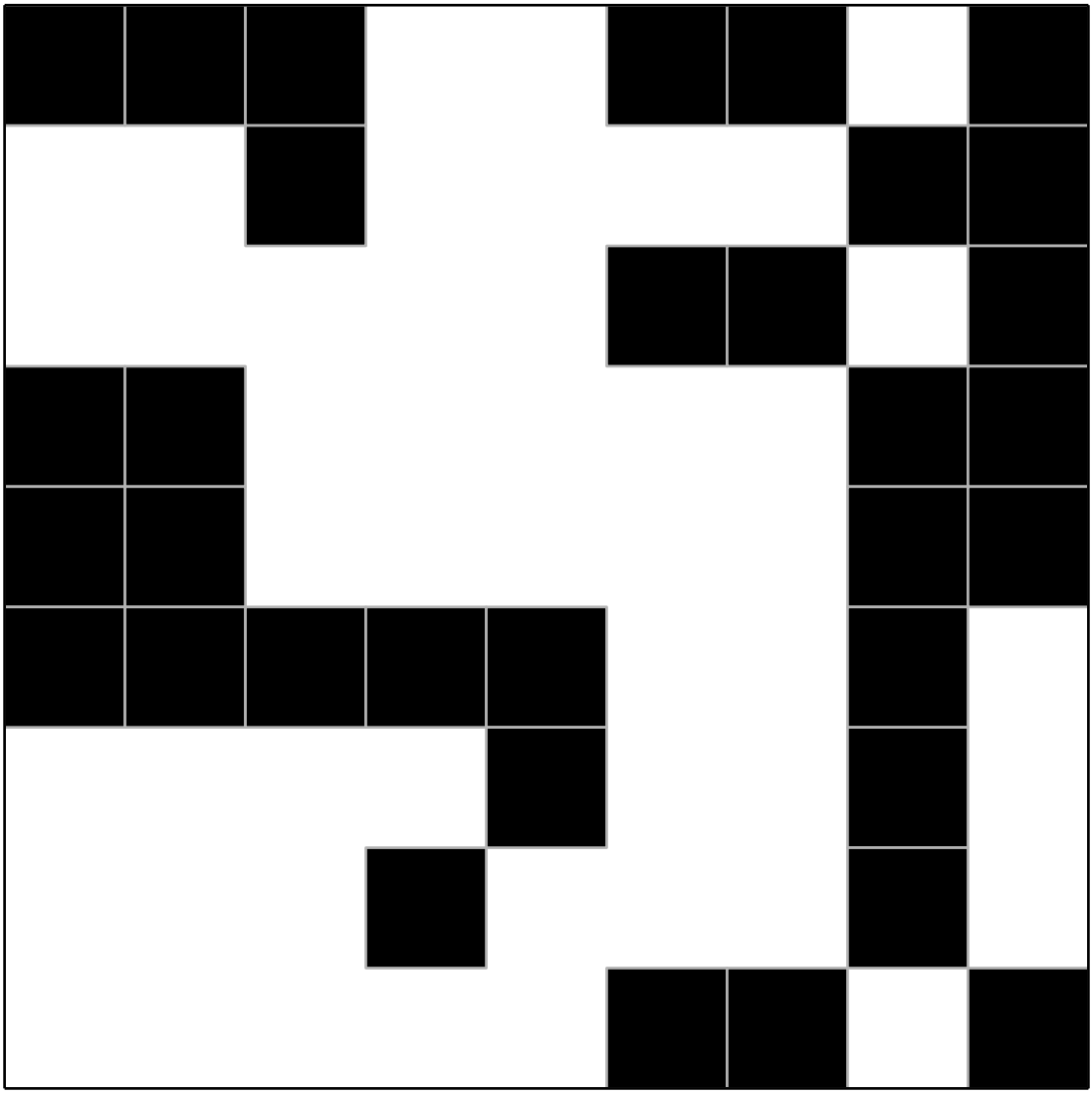

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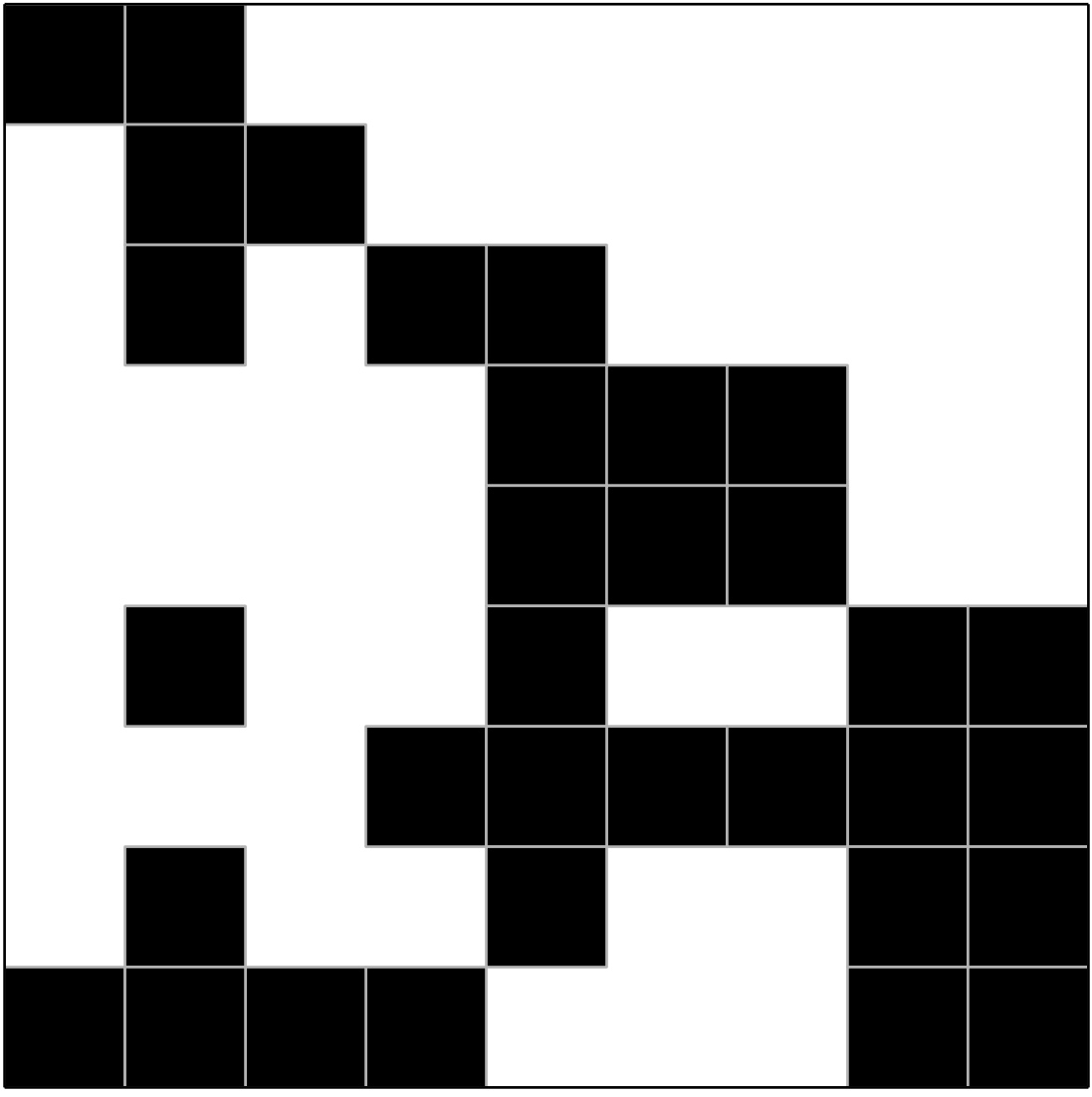

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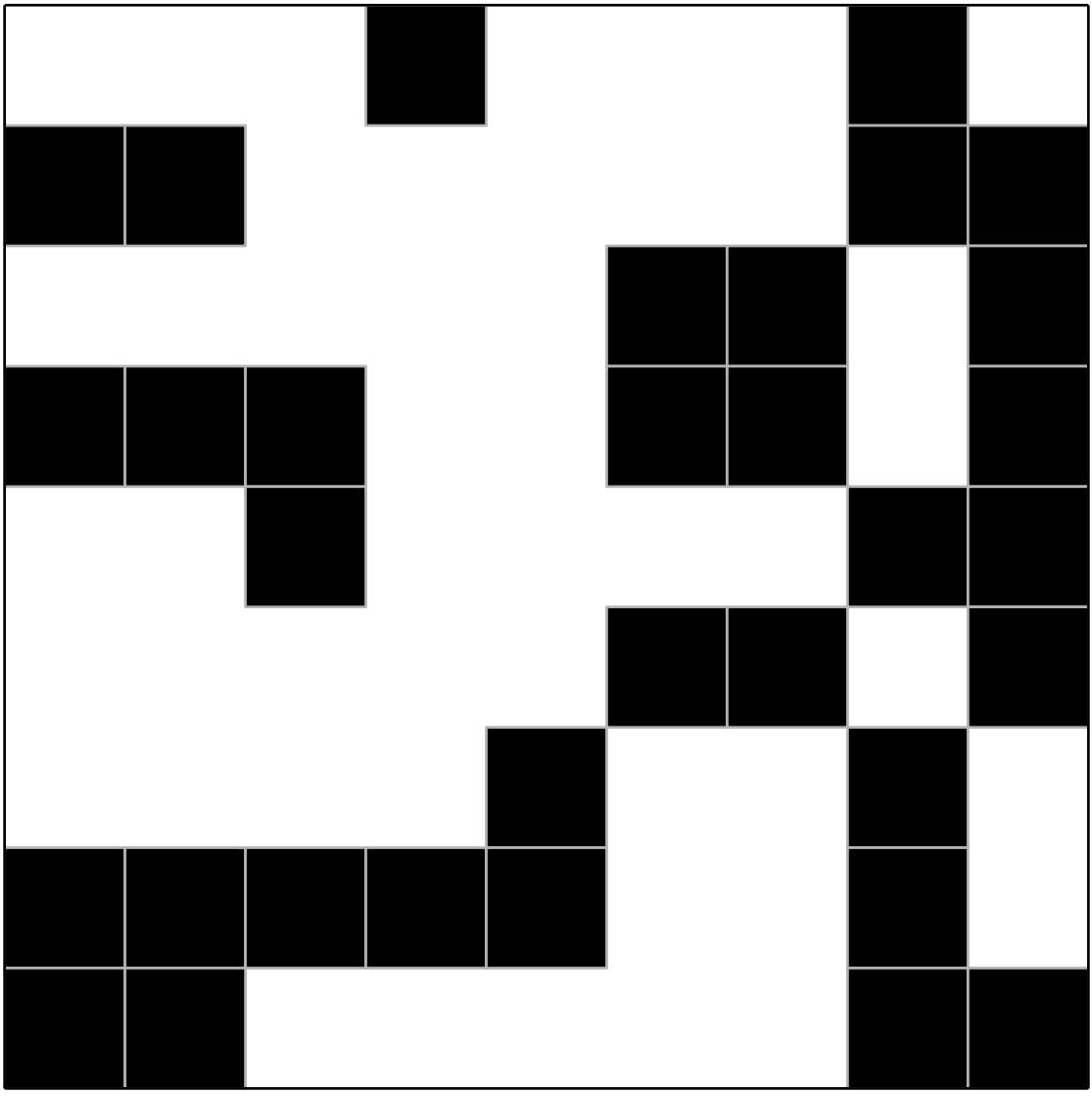

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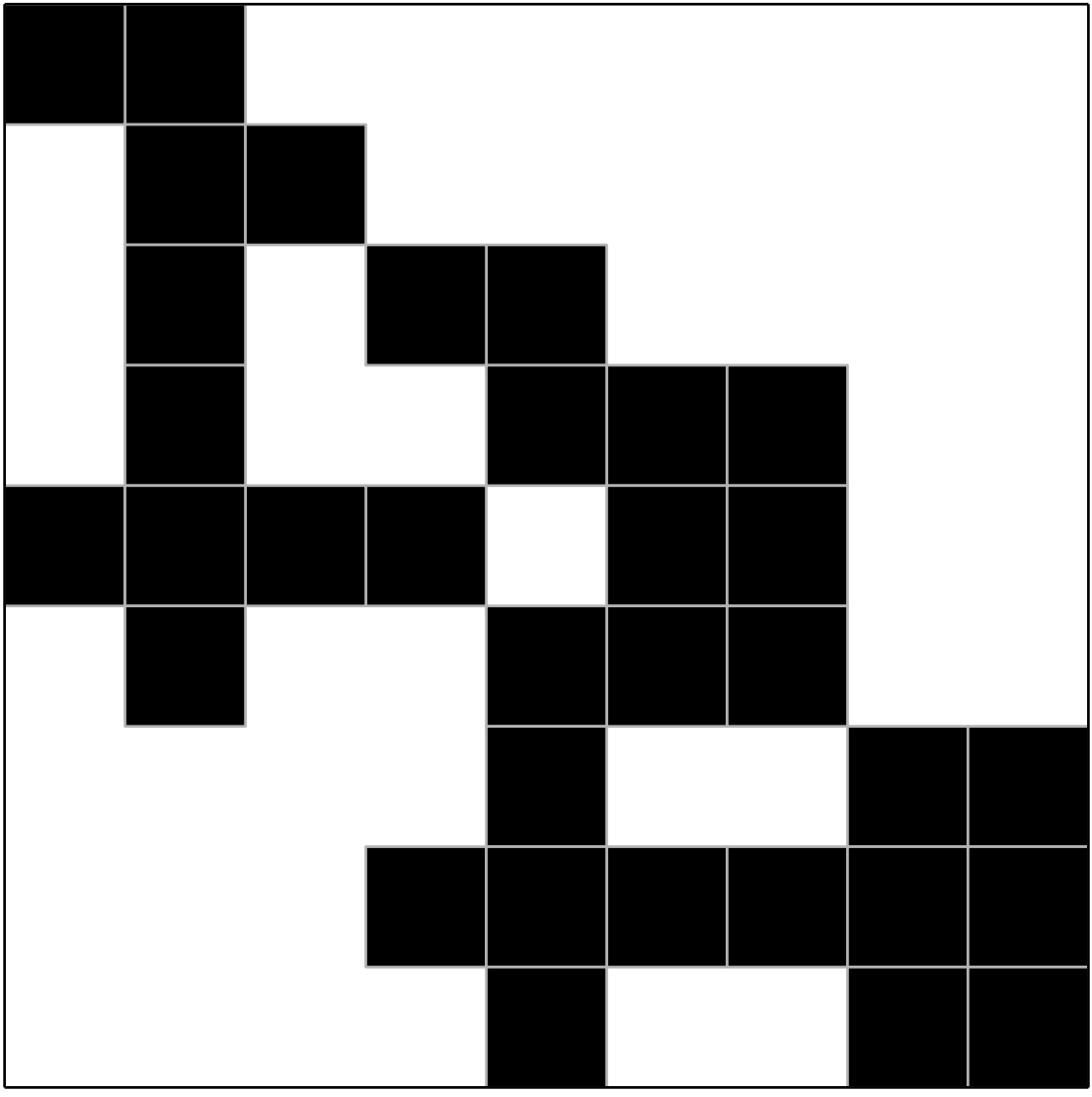

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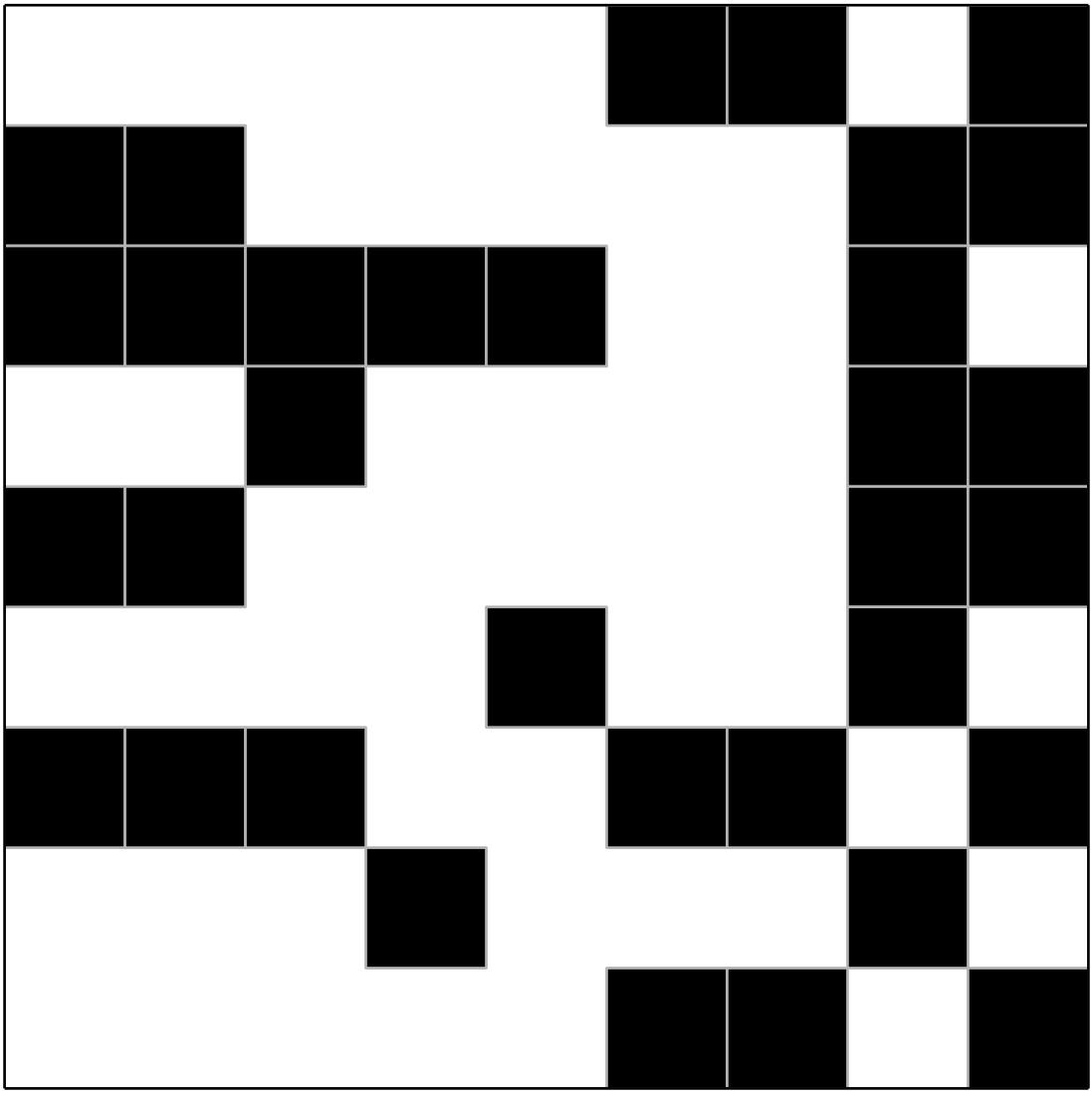

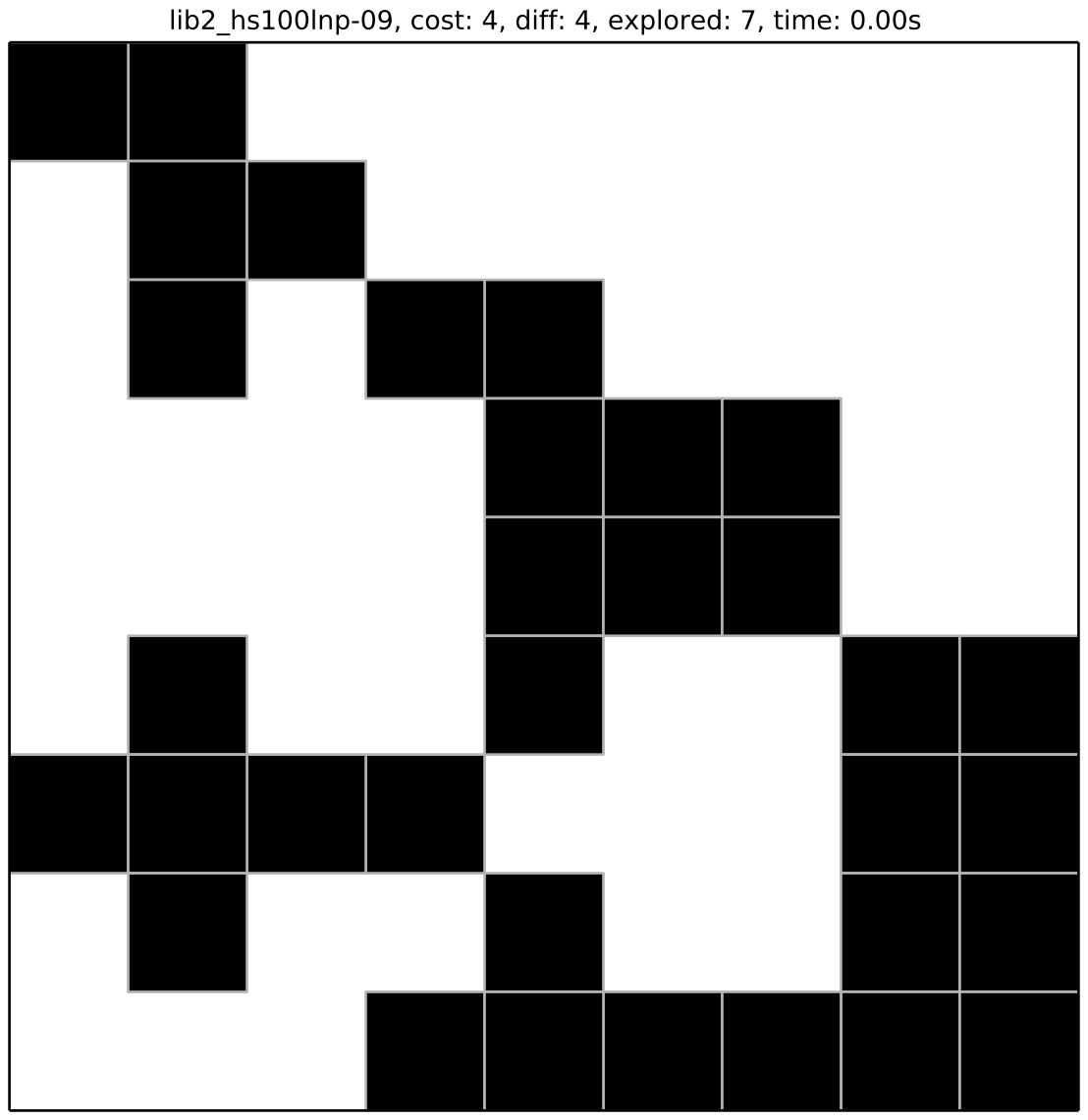
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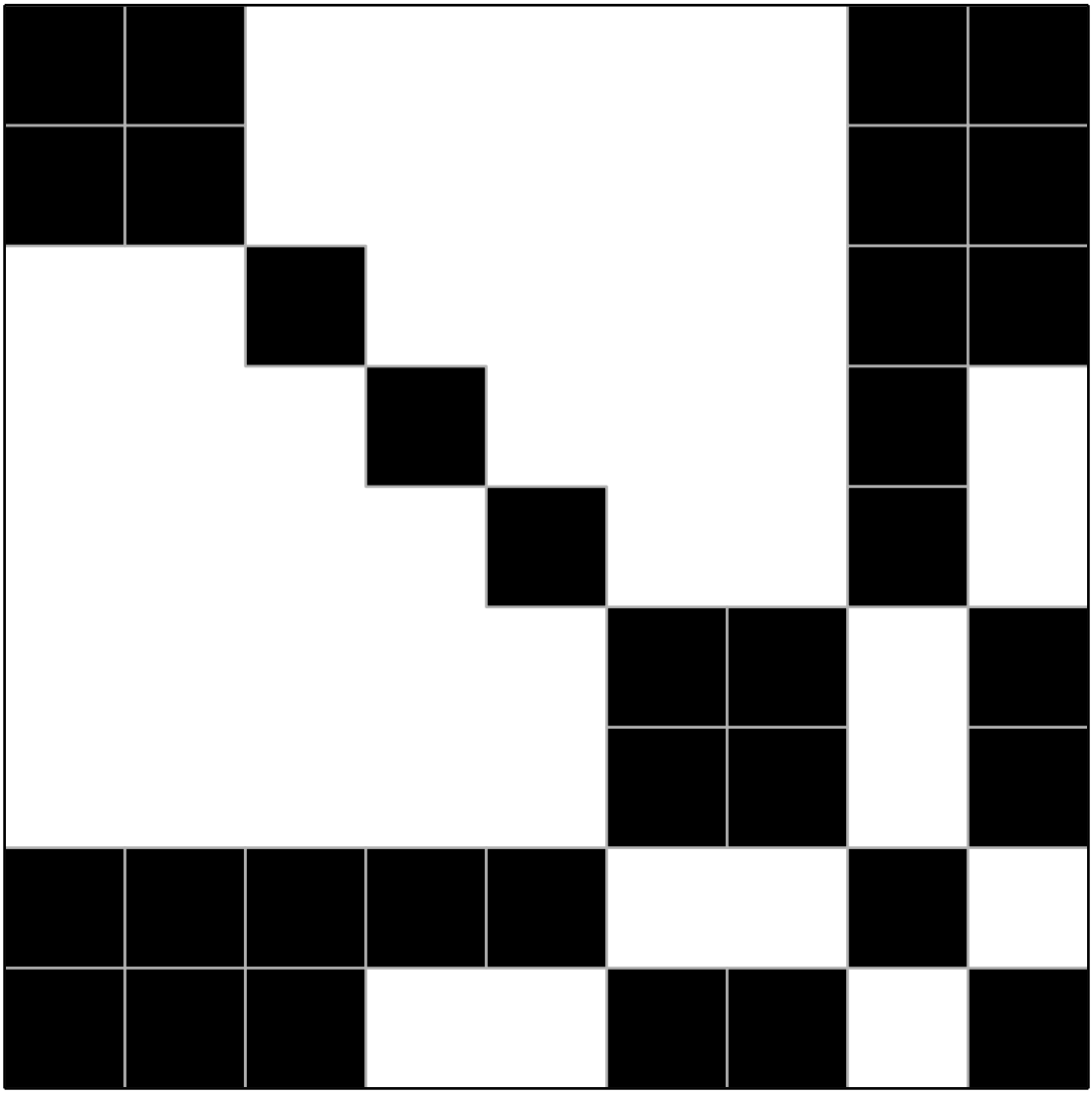
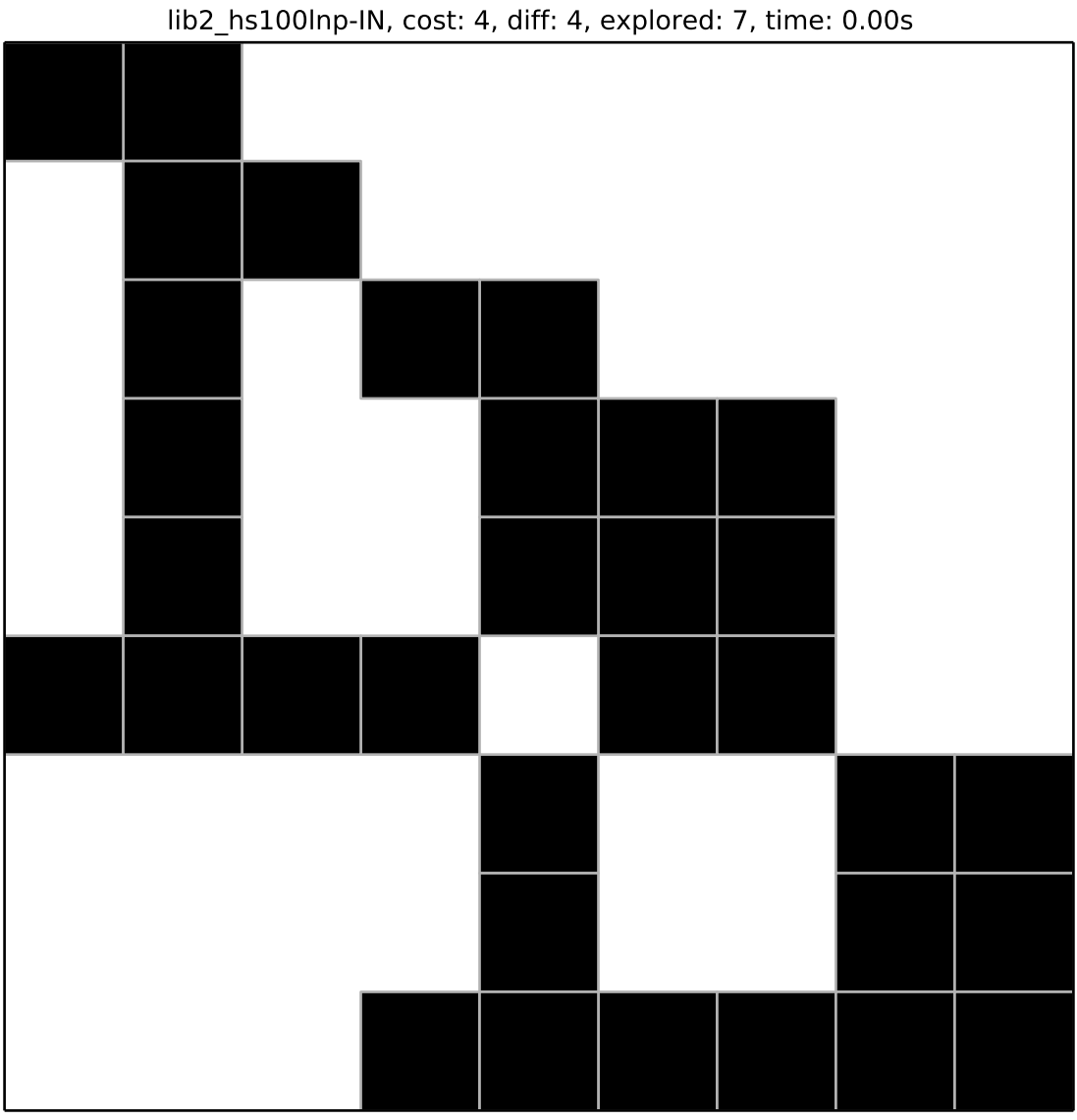
lib2_hs100lnp-IN 9x9 (33) con: 2, var: 7

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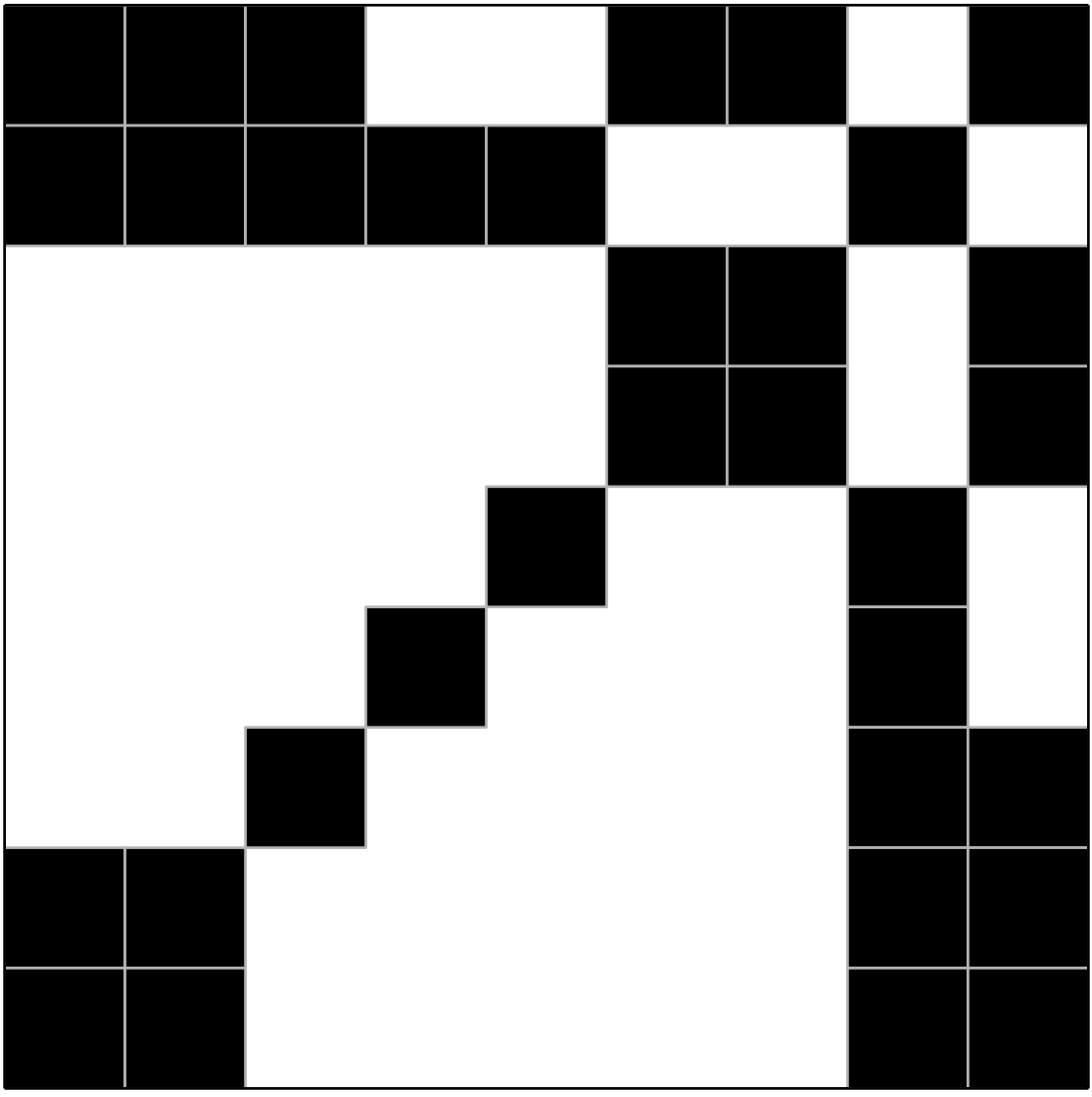
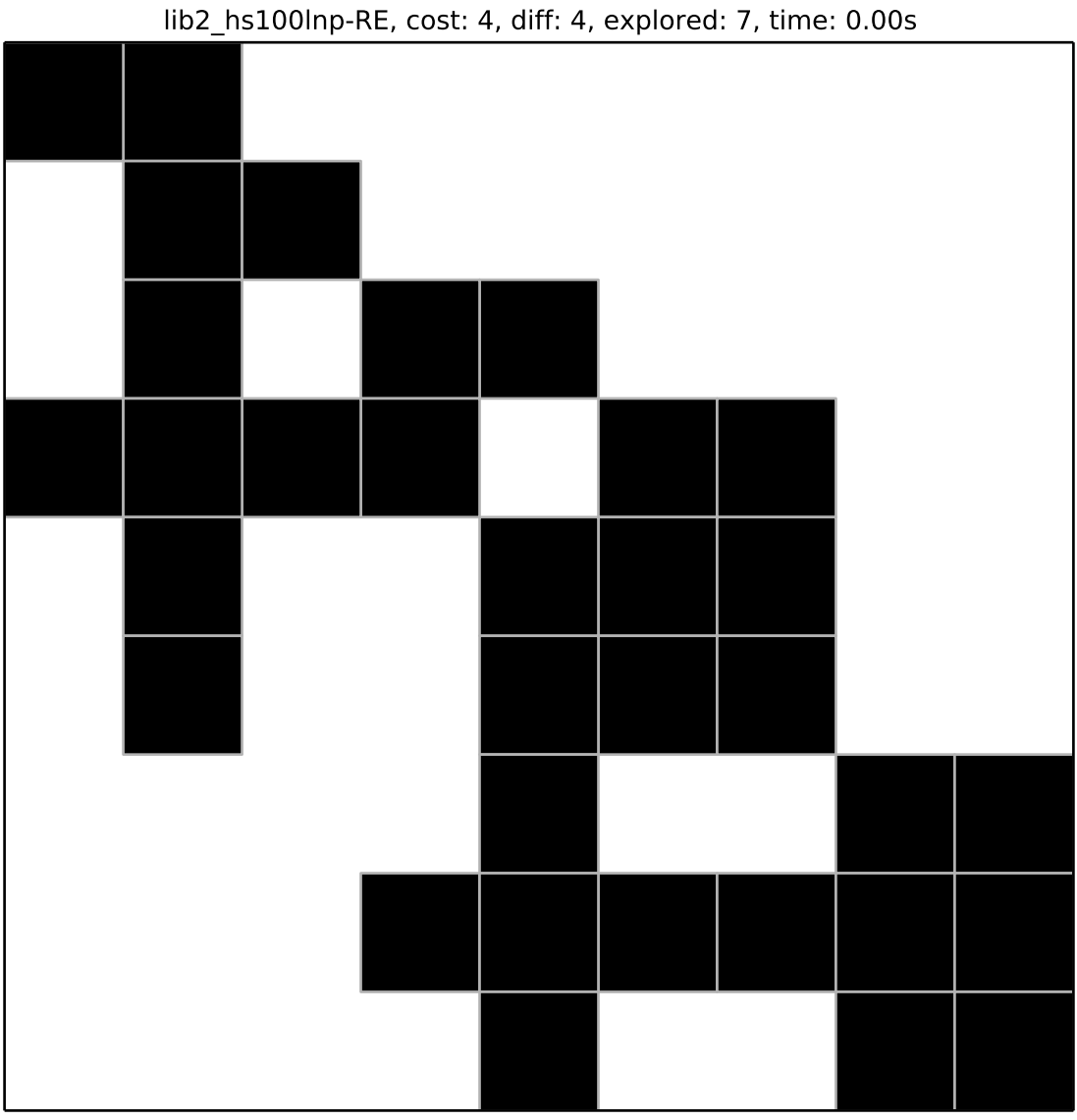
lib2_hs100lnp-RE 9x9 (33) con: 2, var: 7

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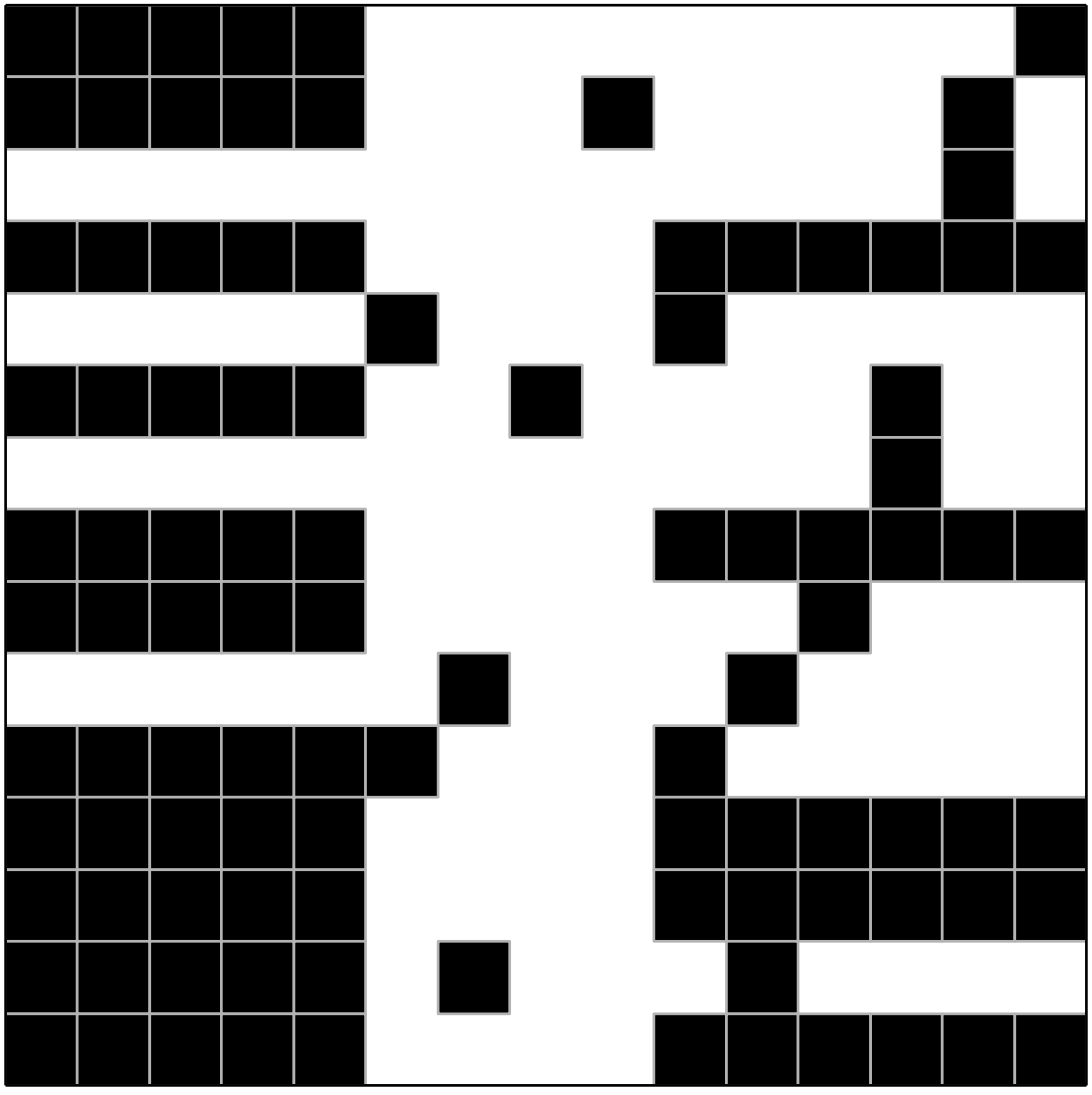
lib2_hs107-00 15x15 (101) con: 6, var: 9



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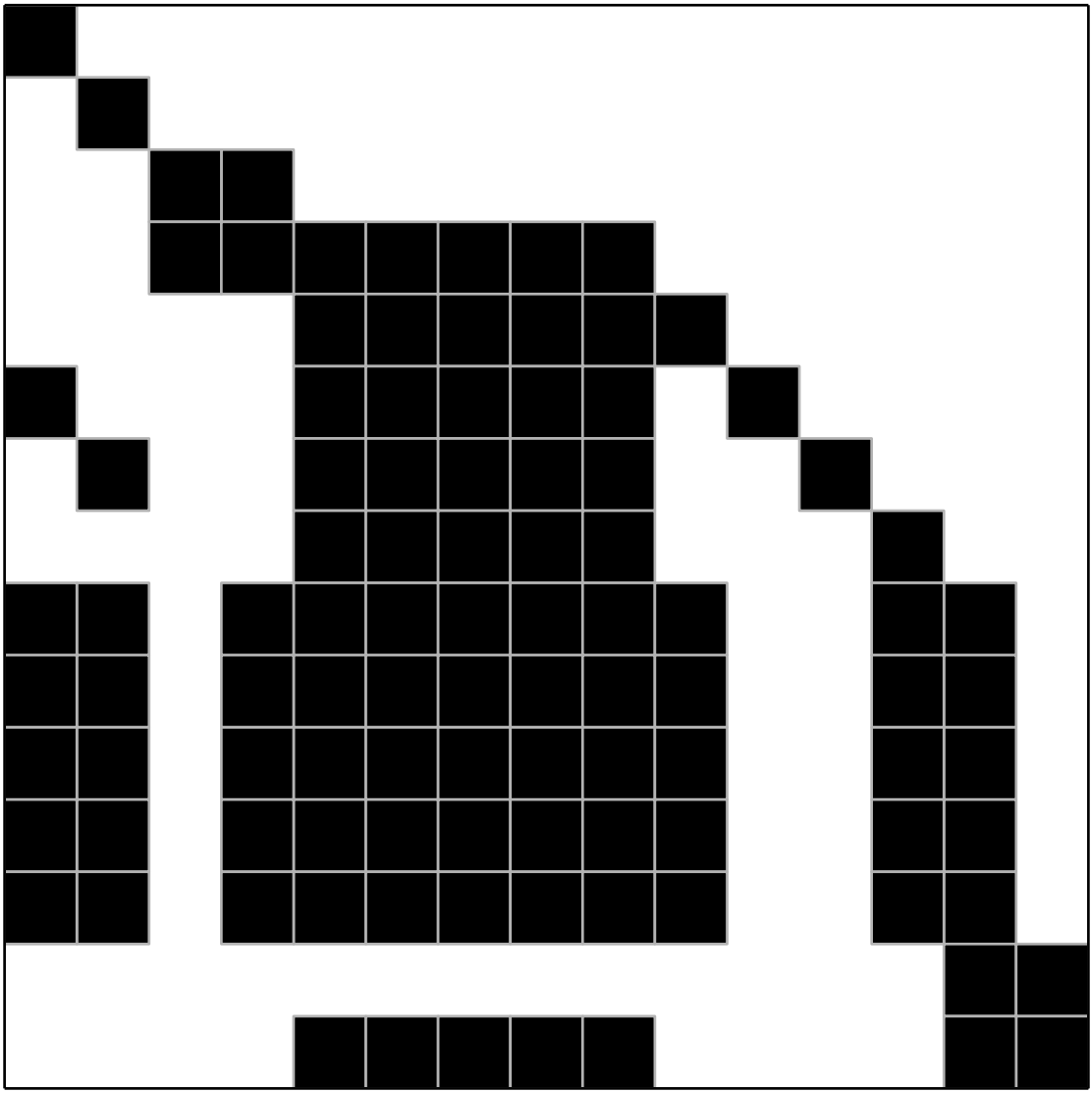
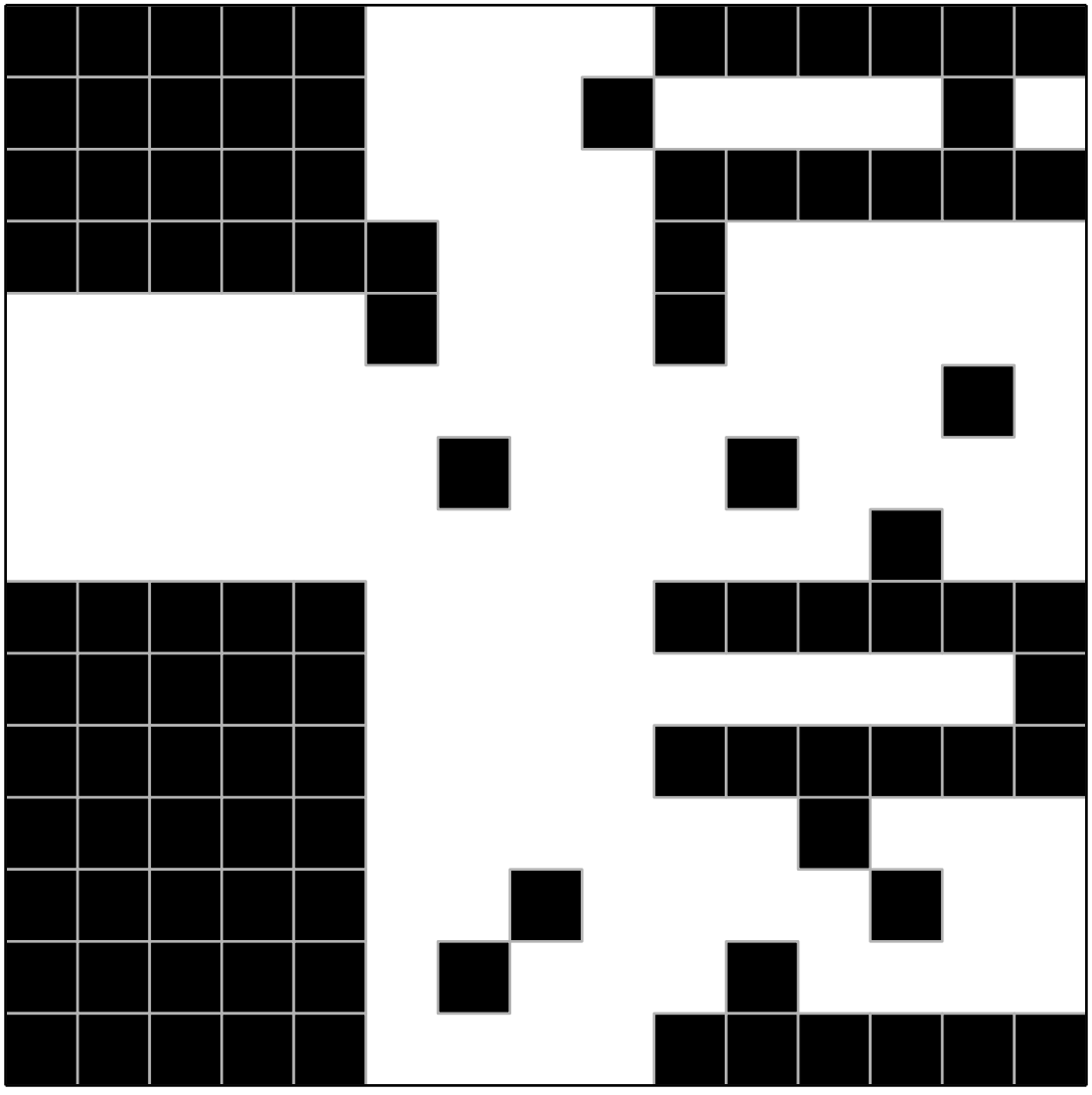


lib2_hs107-01 15x15 (101) con: 6, var: 9



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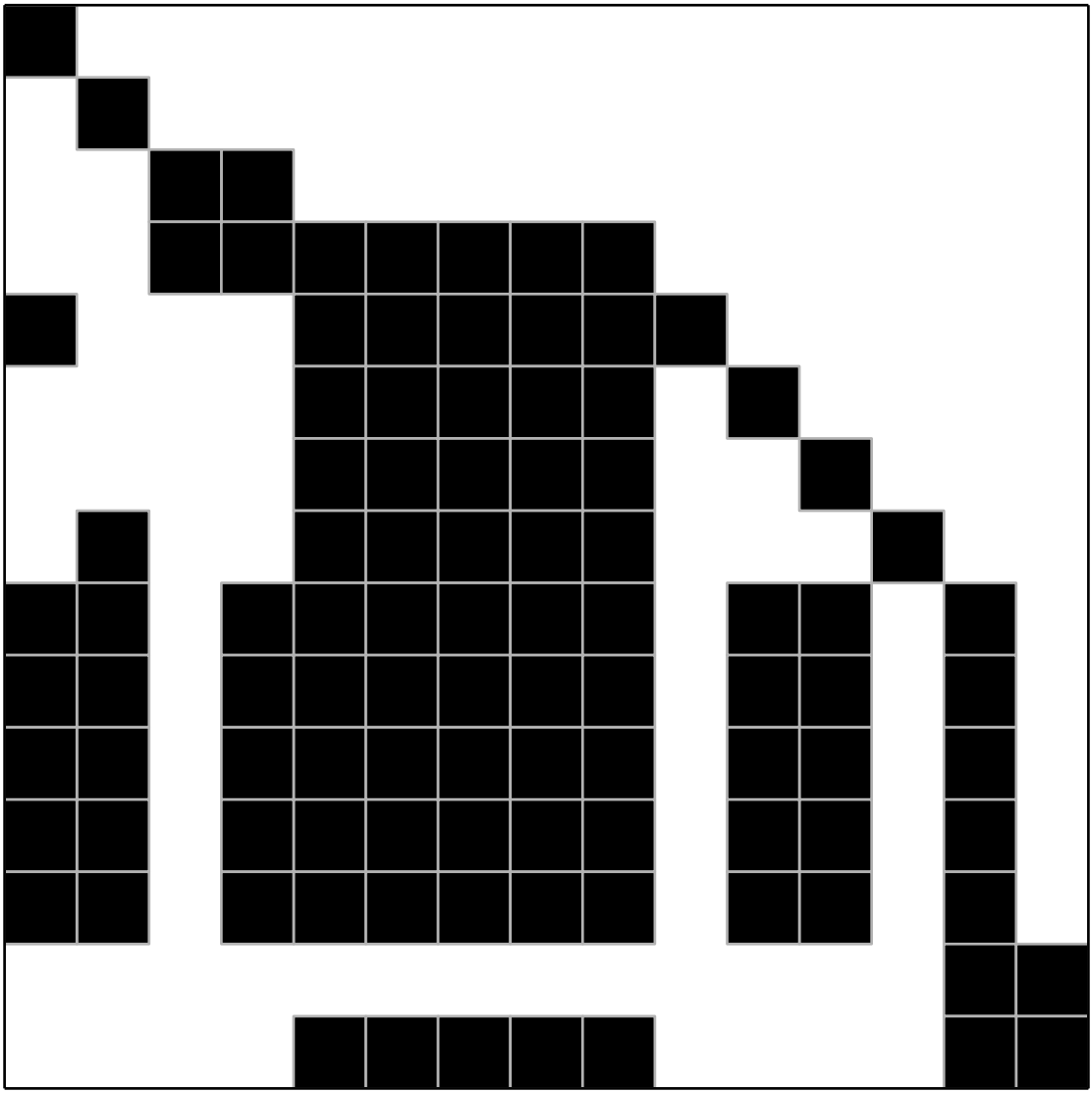
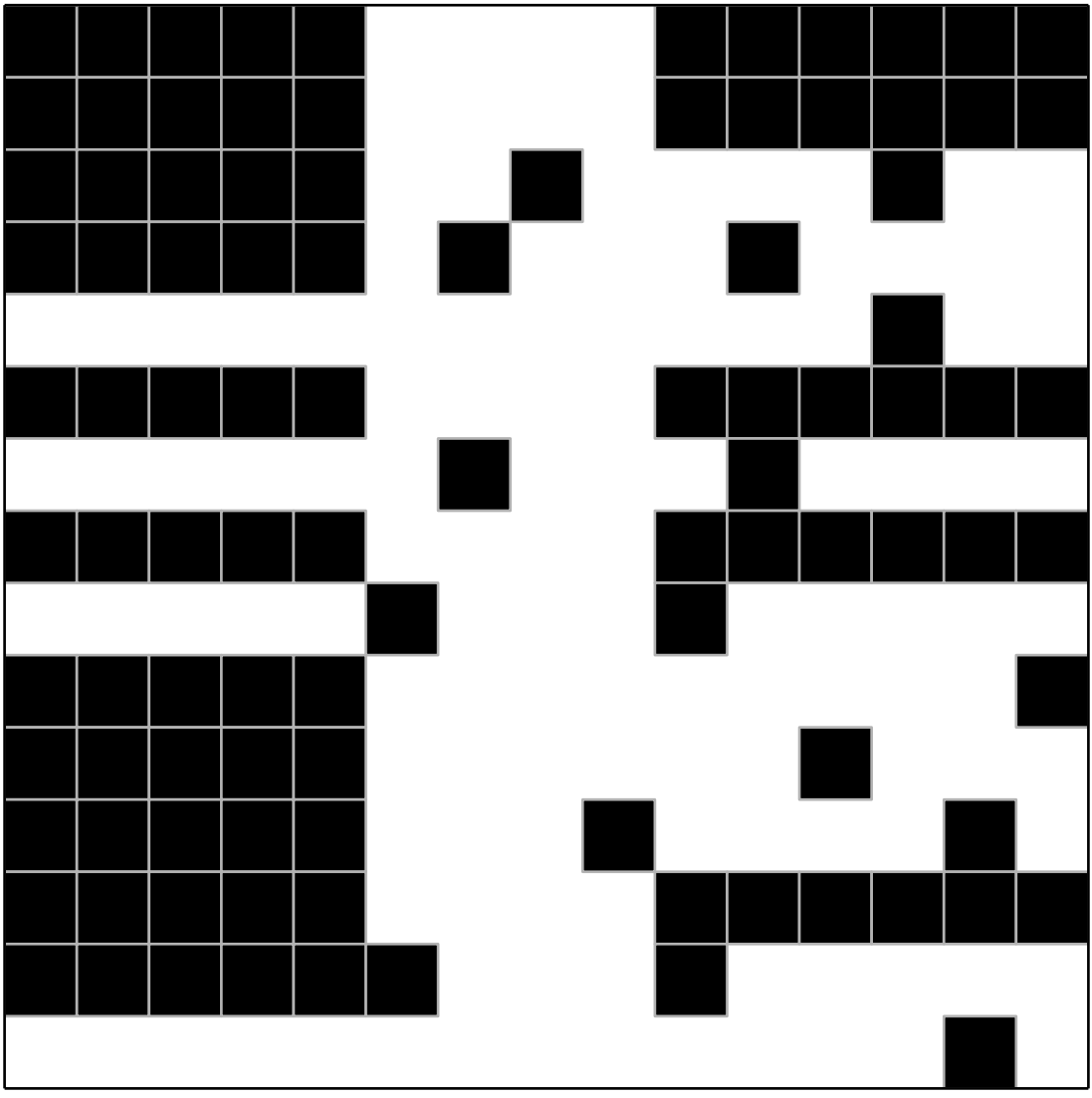


lib2_hs107-02 15x15 (101) con: 6, var: 9



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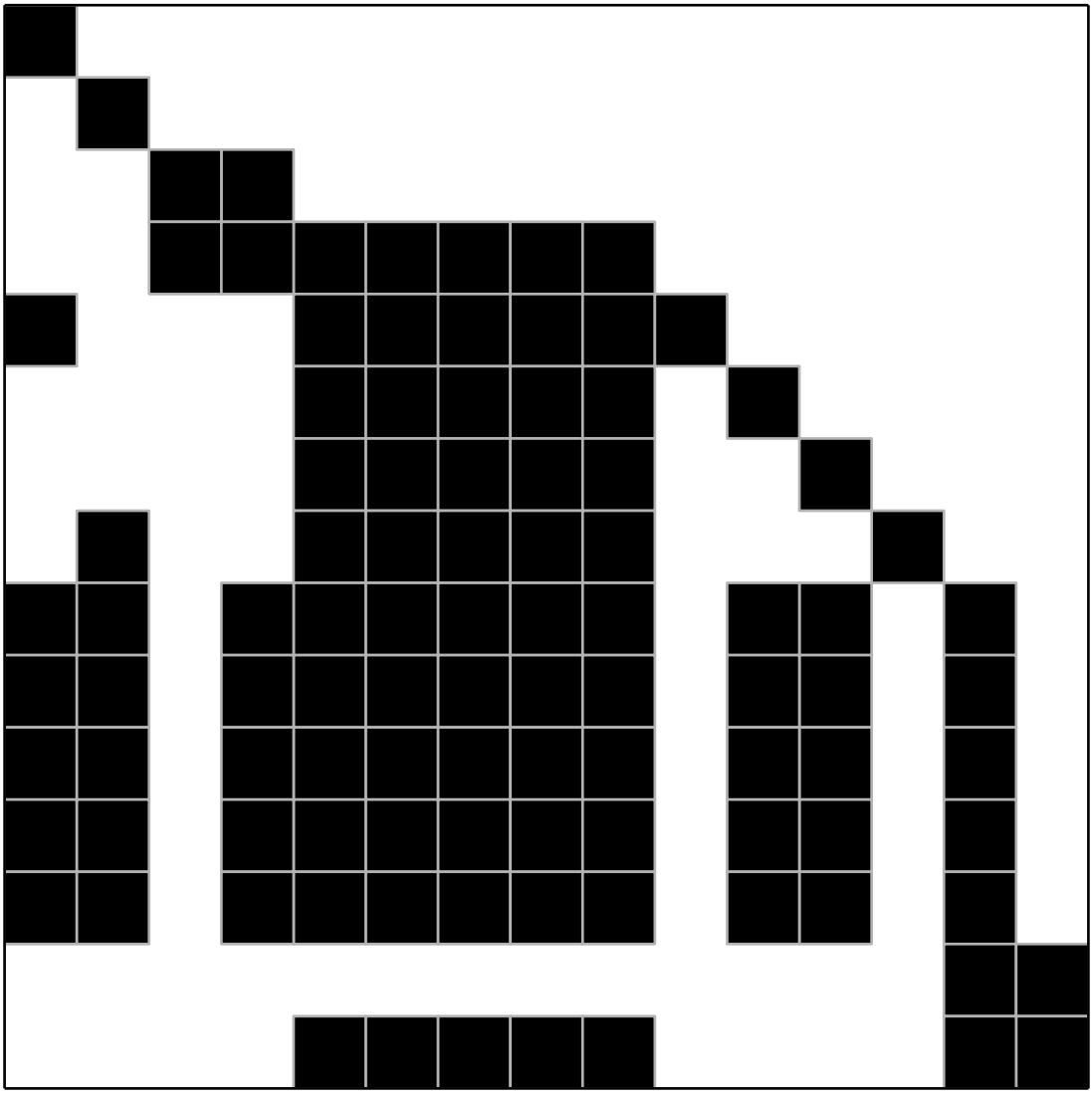
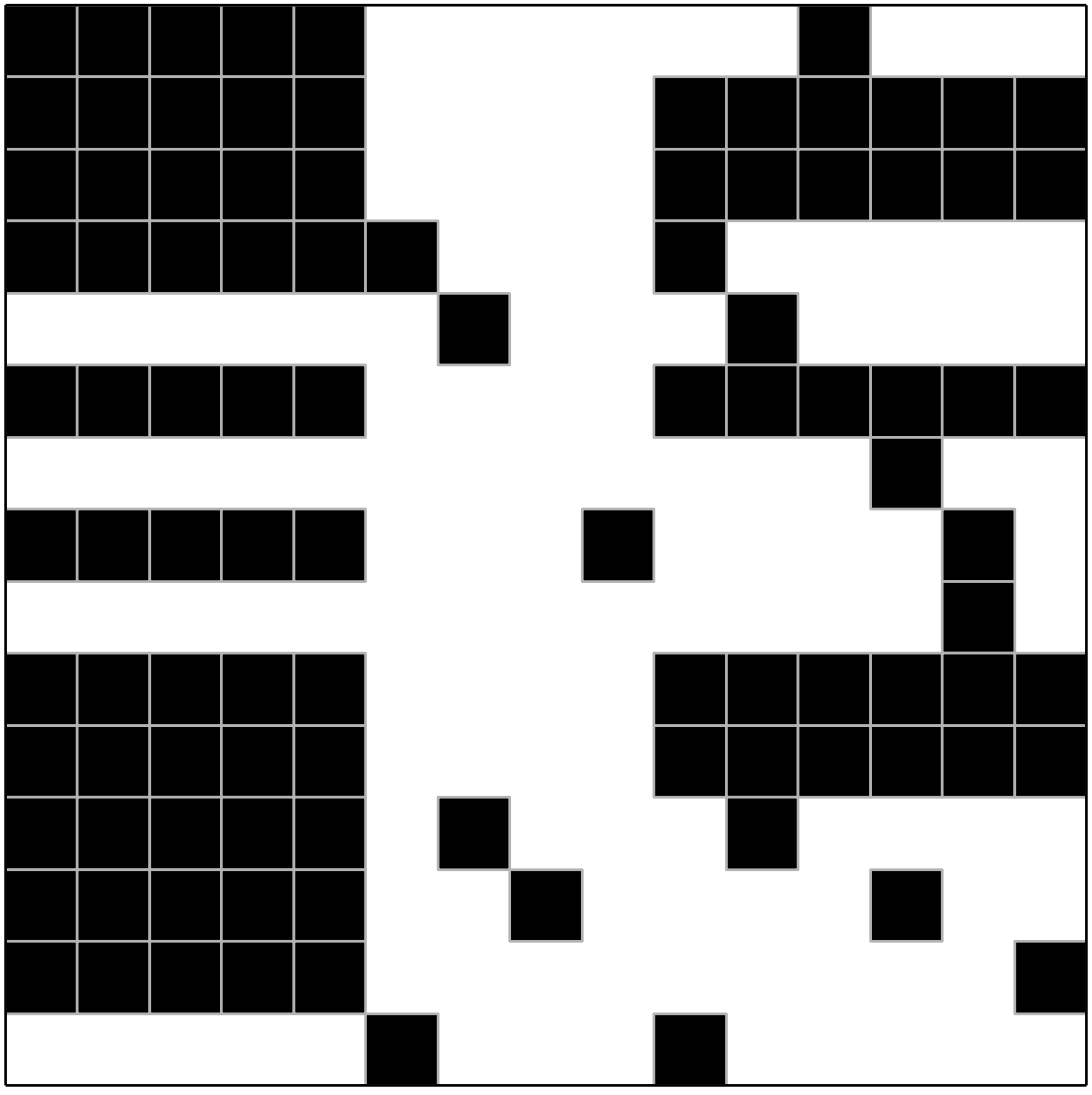
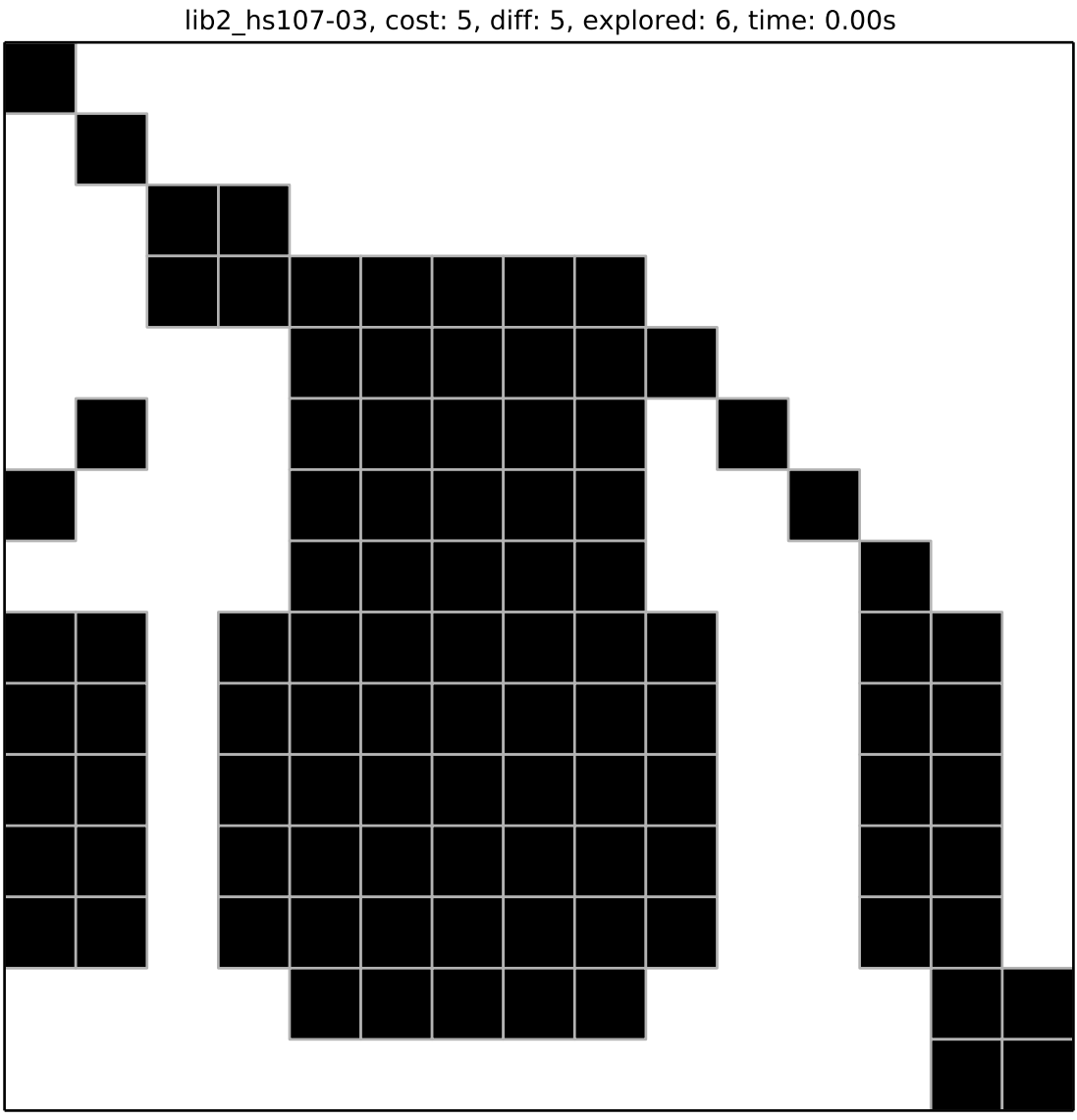
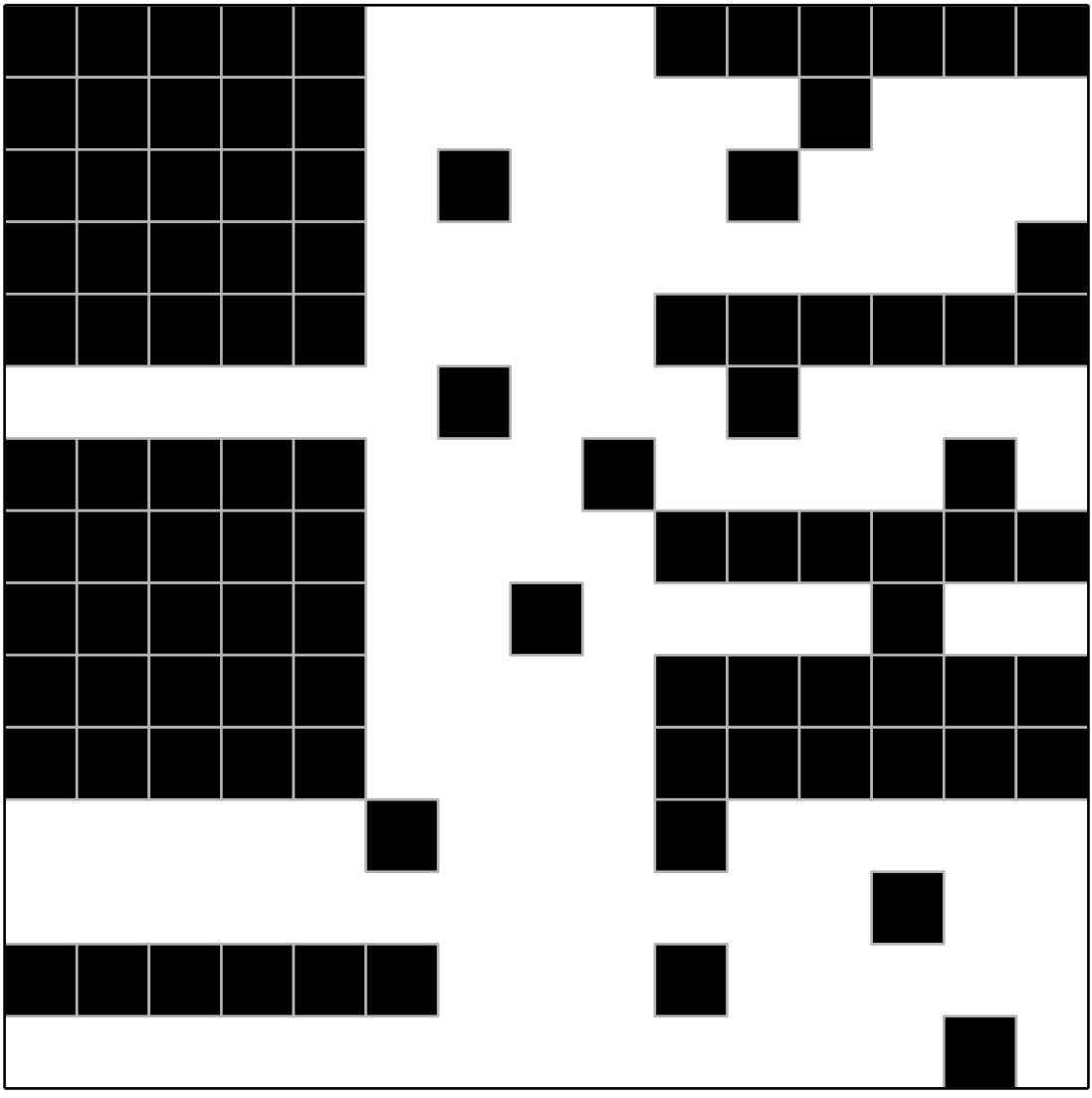


lib2_hs107-03 15x15 (101) con: 6, var: 9

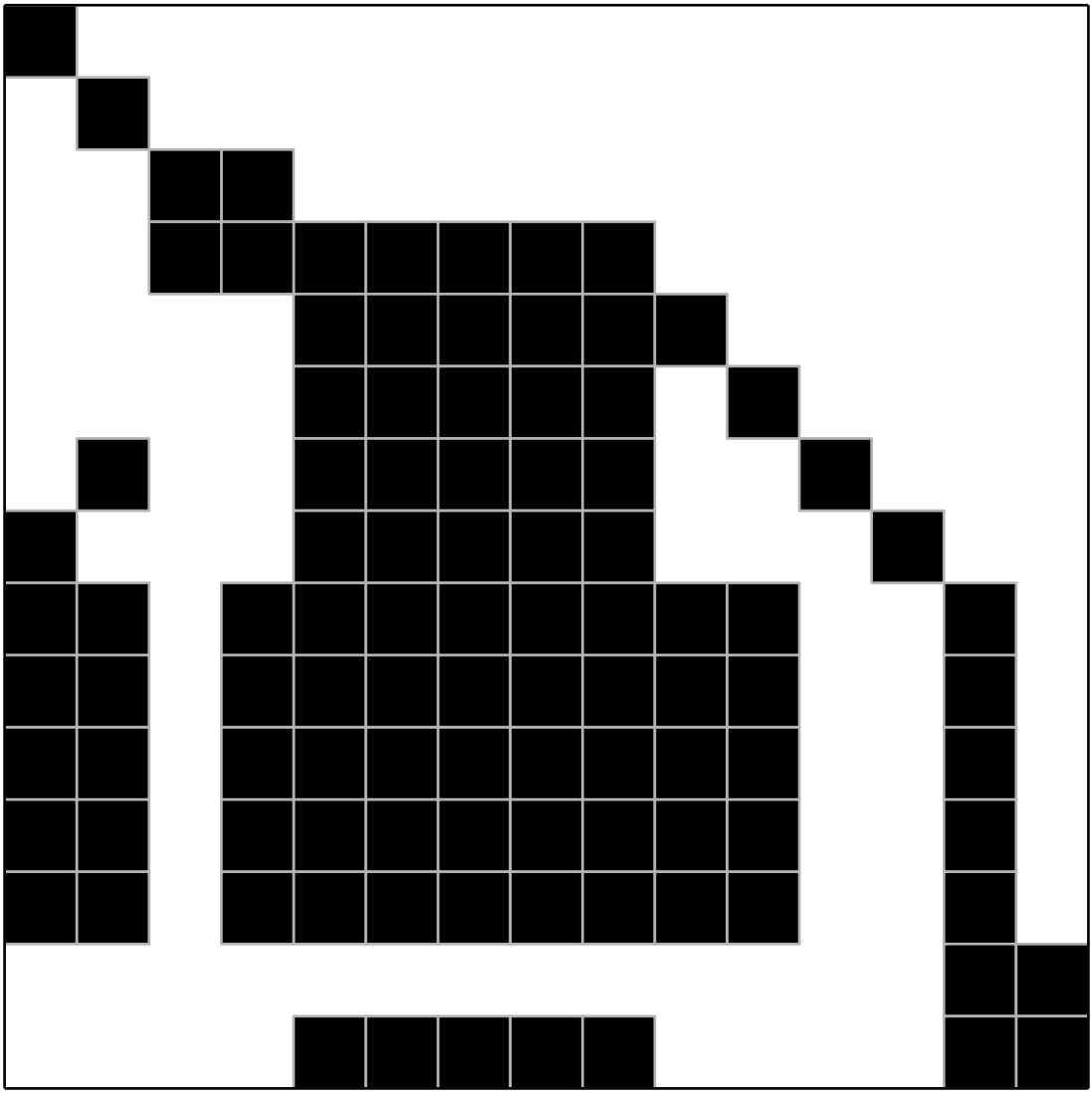



lib2_hs107-03, cost: 5, diff: 5, explored: 6, time: 0.00s

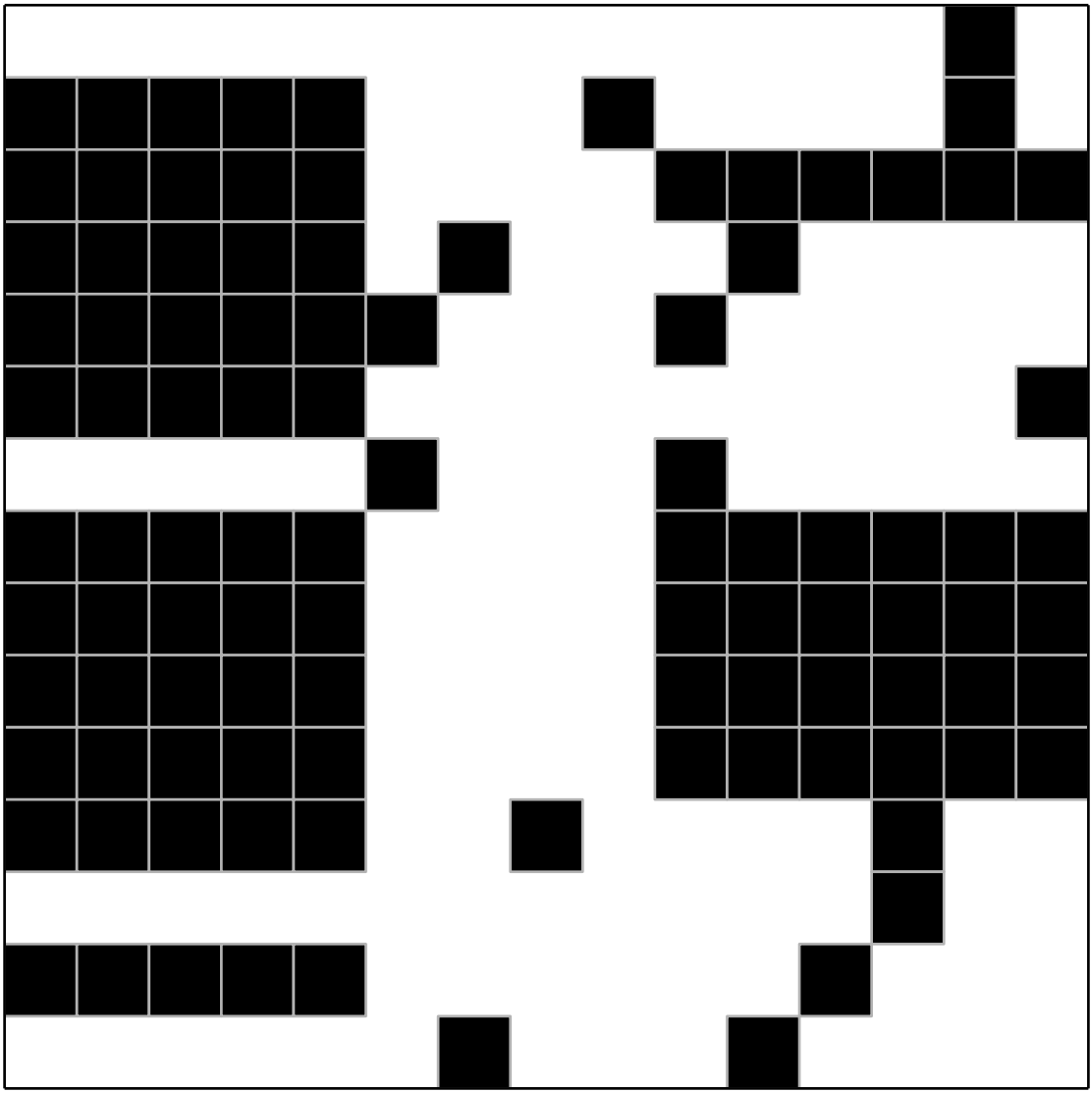
lib2_hs107-04 15x15 (101) con: 6, var: 9



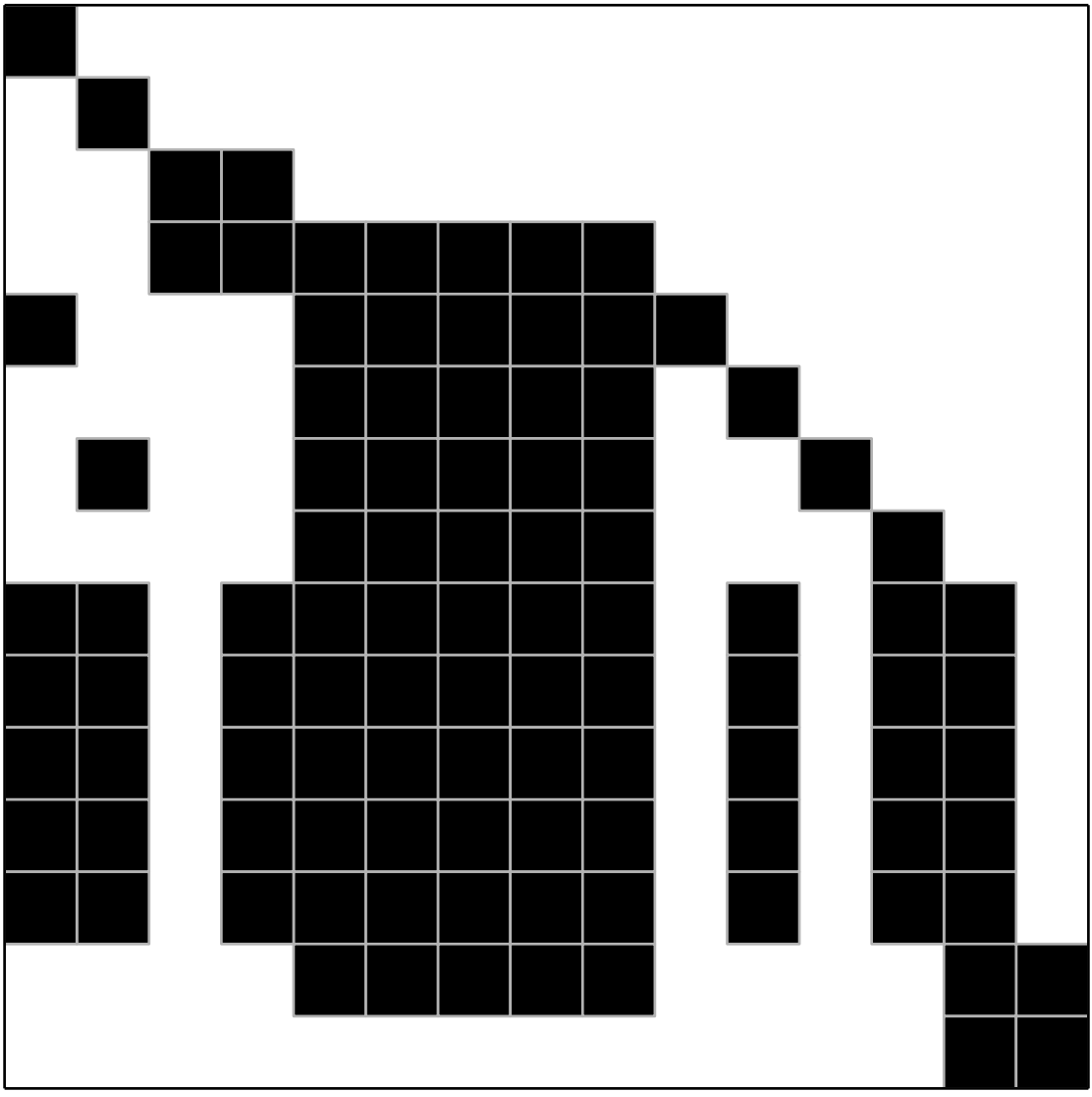
lib2_hs107-04, cost: 5, diff: 5, explored: 6, time: 0.00s



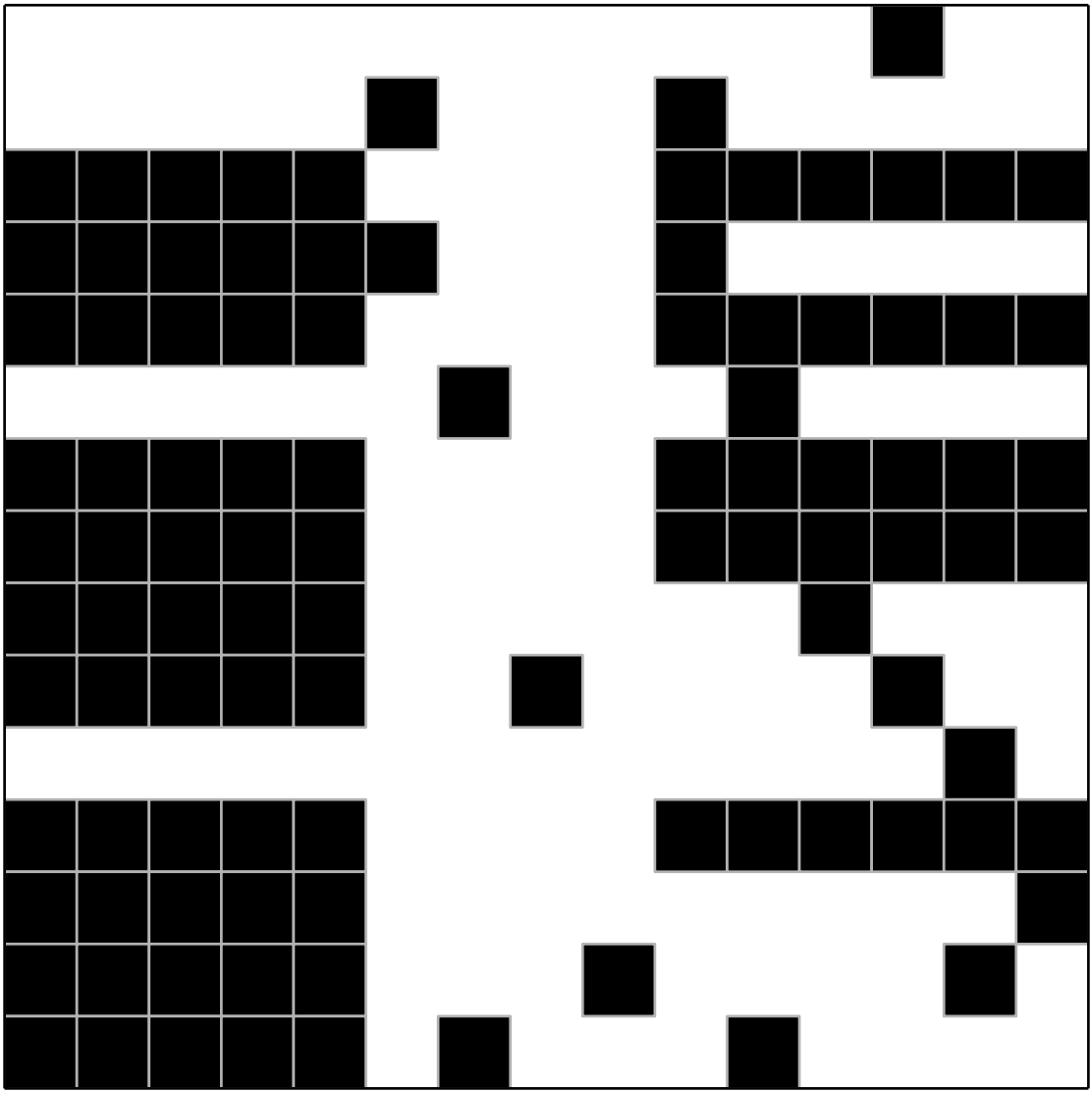
lib2_hs107-05 15x15 (101) con: 6, var: 9



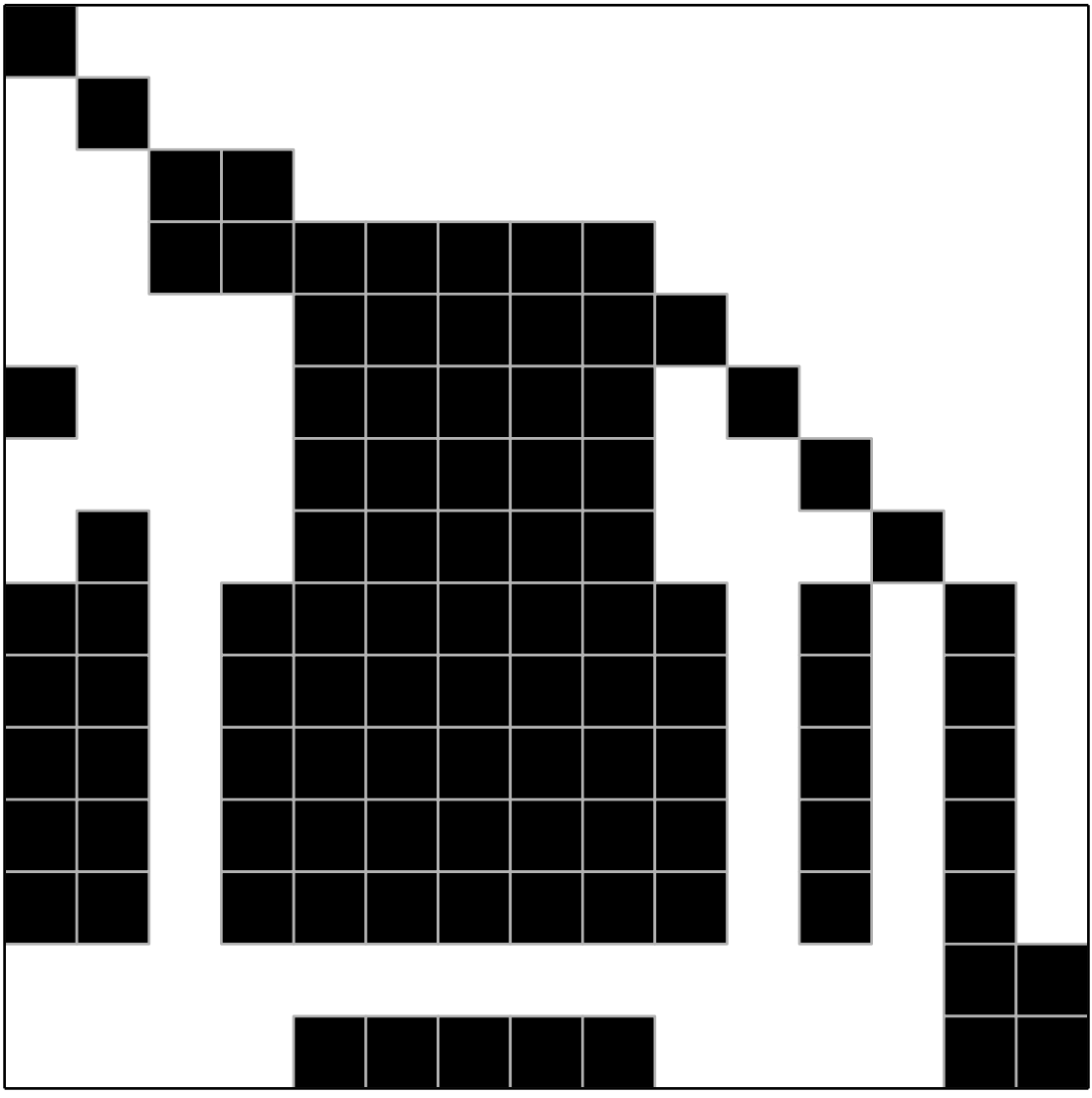
lib2_hs107-05, cost: 5, diff: 5, explored: 6, time: 0.00s



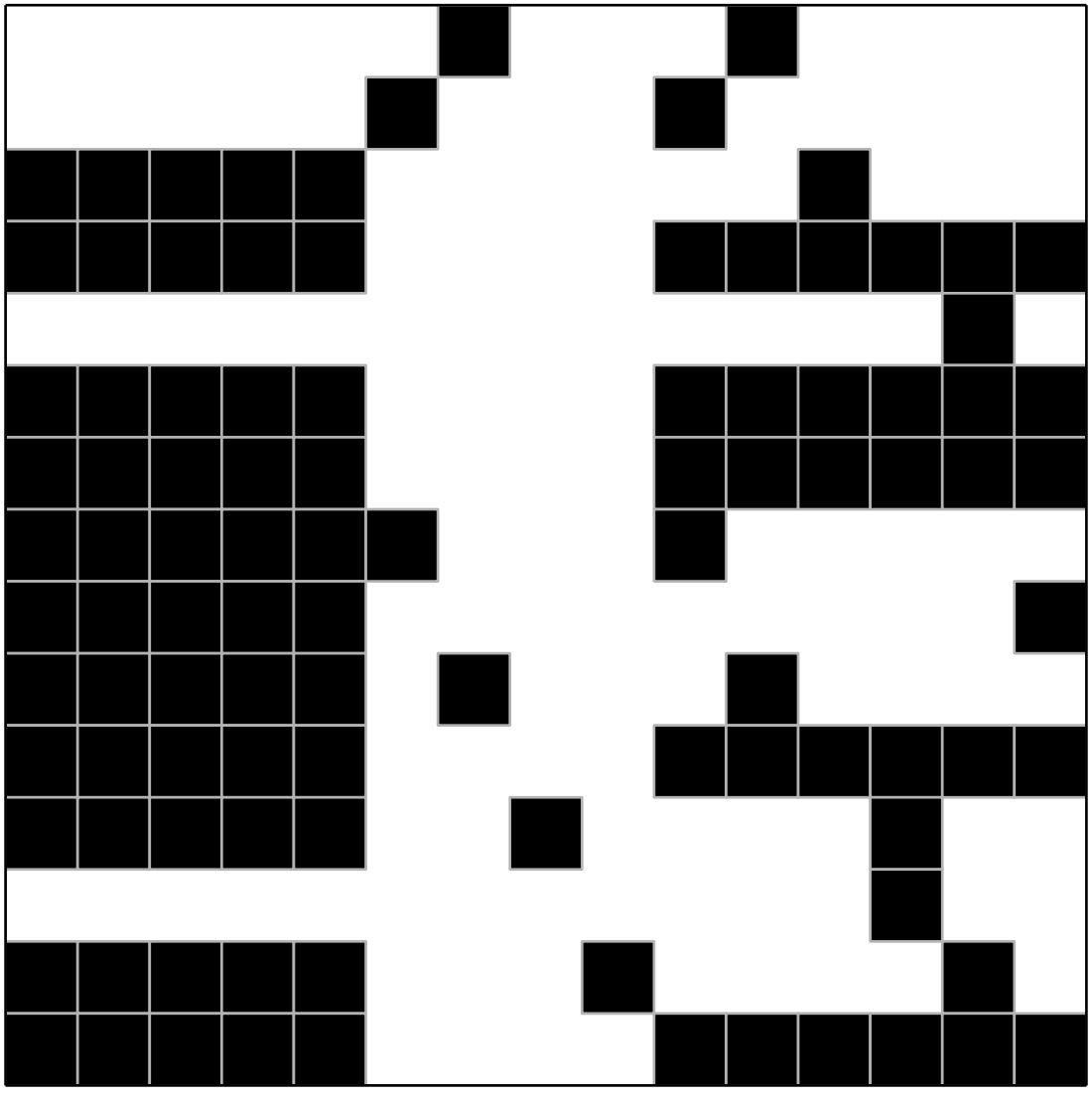
lib2_hs107-06 15x15 (101) con: 6, var: 9



lib2_hs107-06, cost: 5, diff: 5, explored: 6, time: 0.00s



lib2_hs107-07 15x15 (101) con: 6, var: 9



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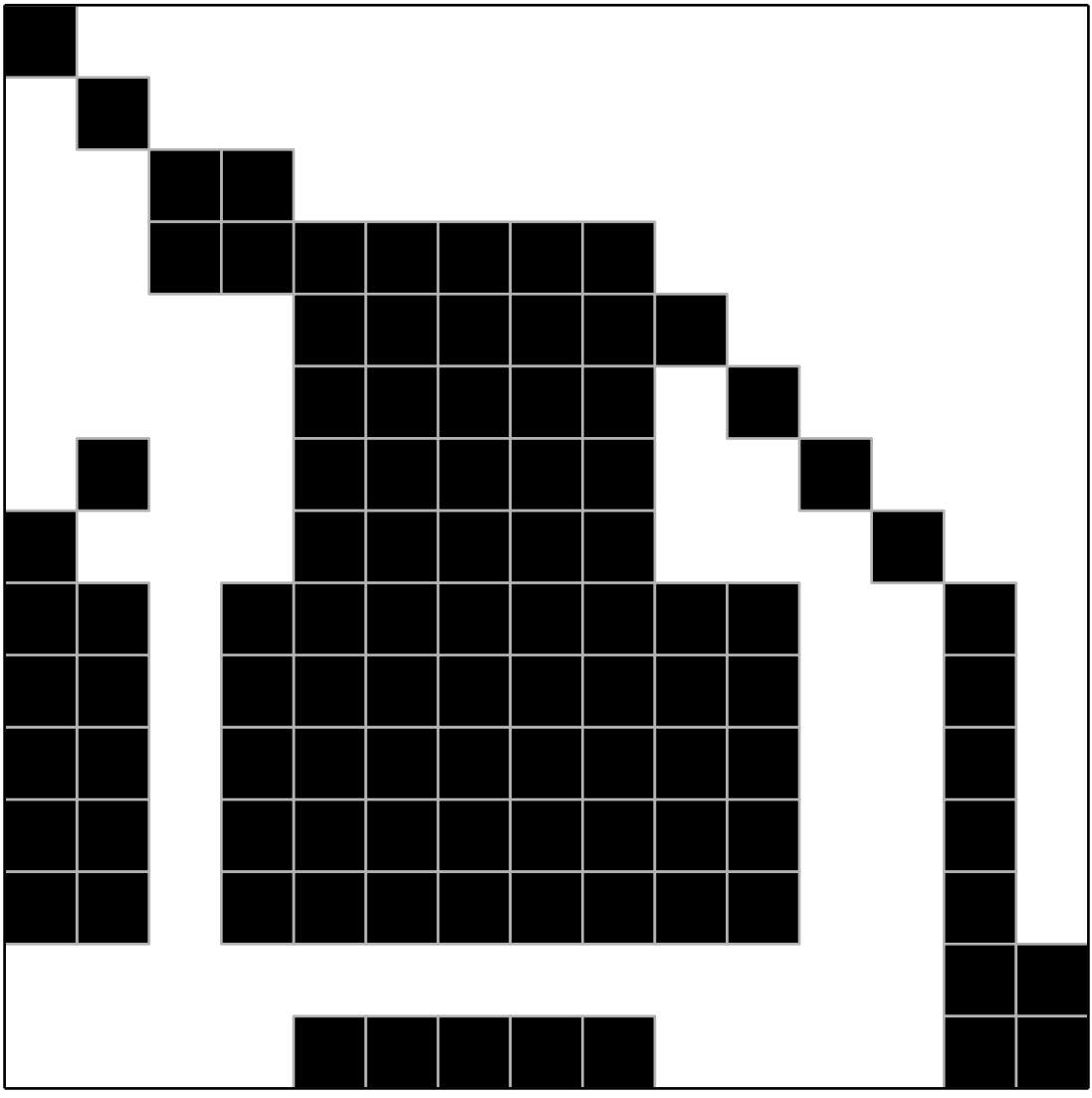
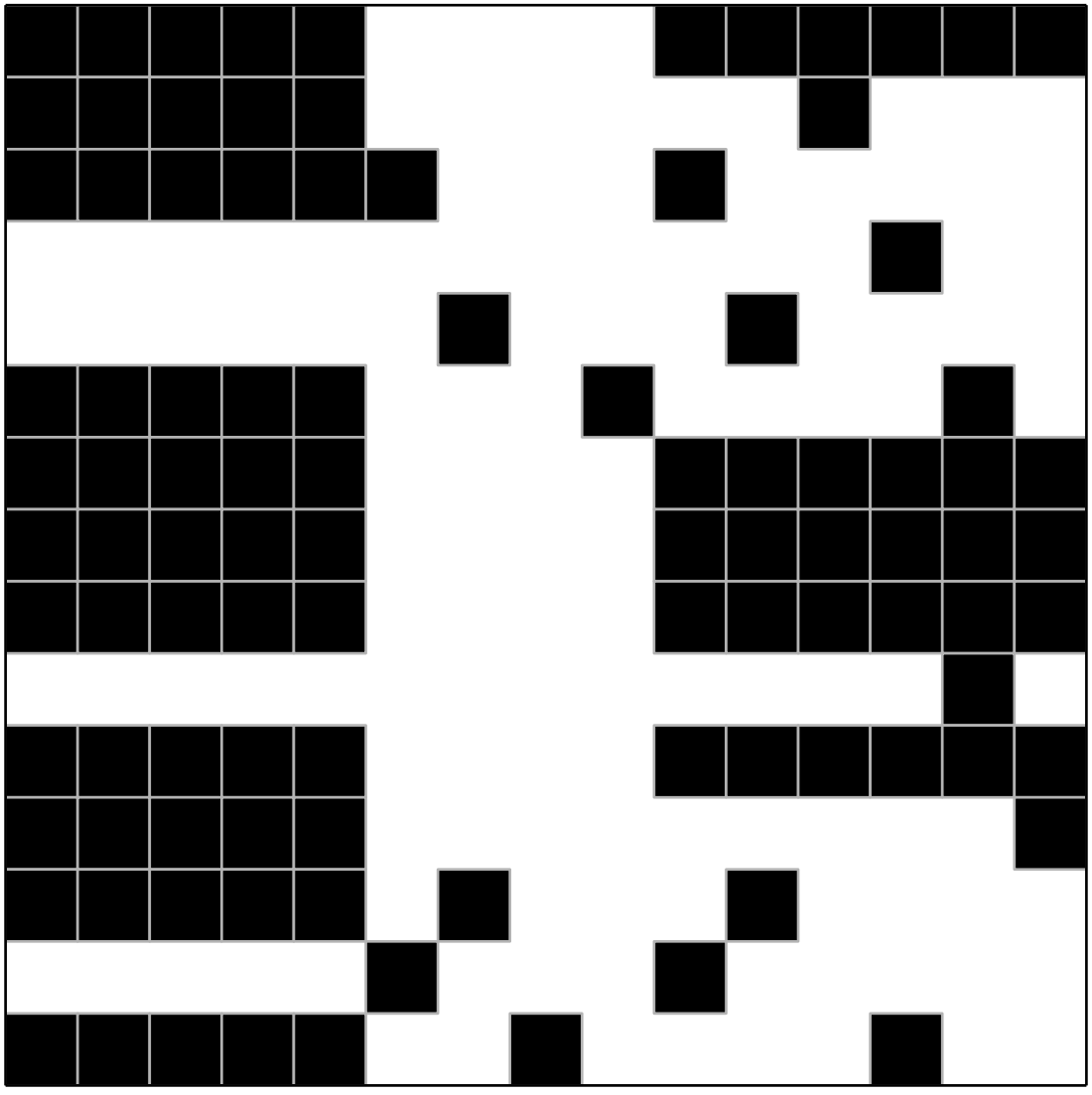
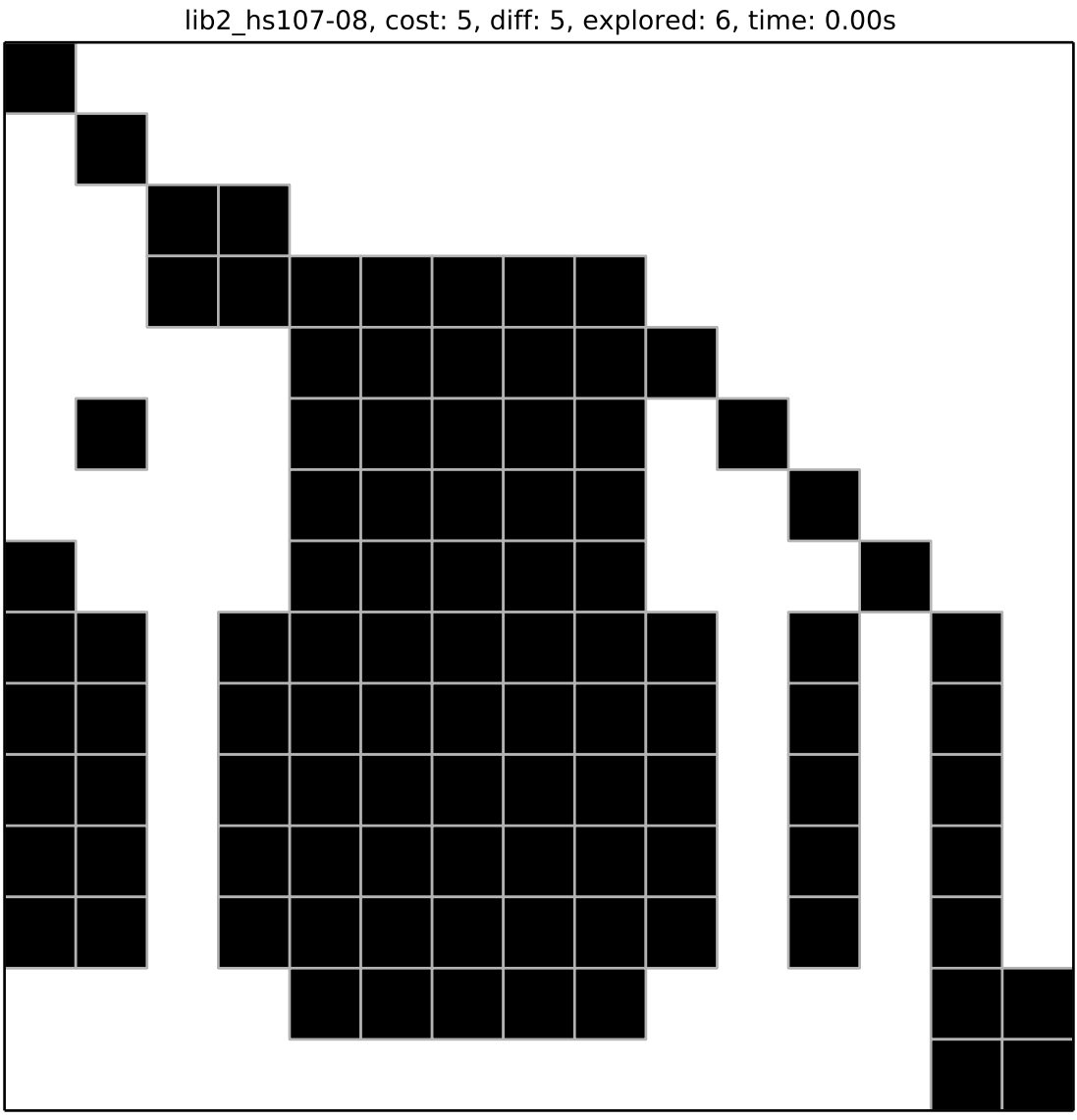


lib2_hs107-08 15x15 (101) con: 6, var: 9

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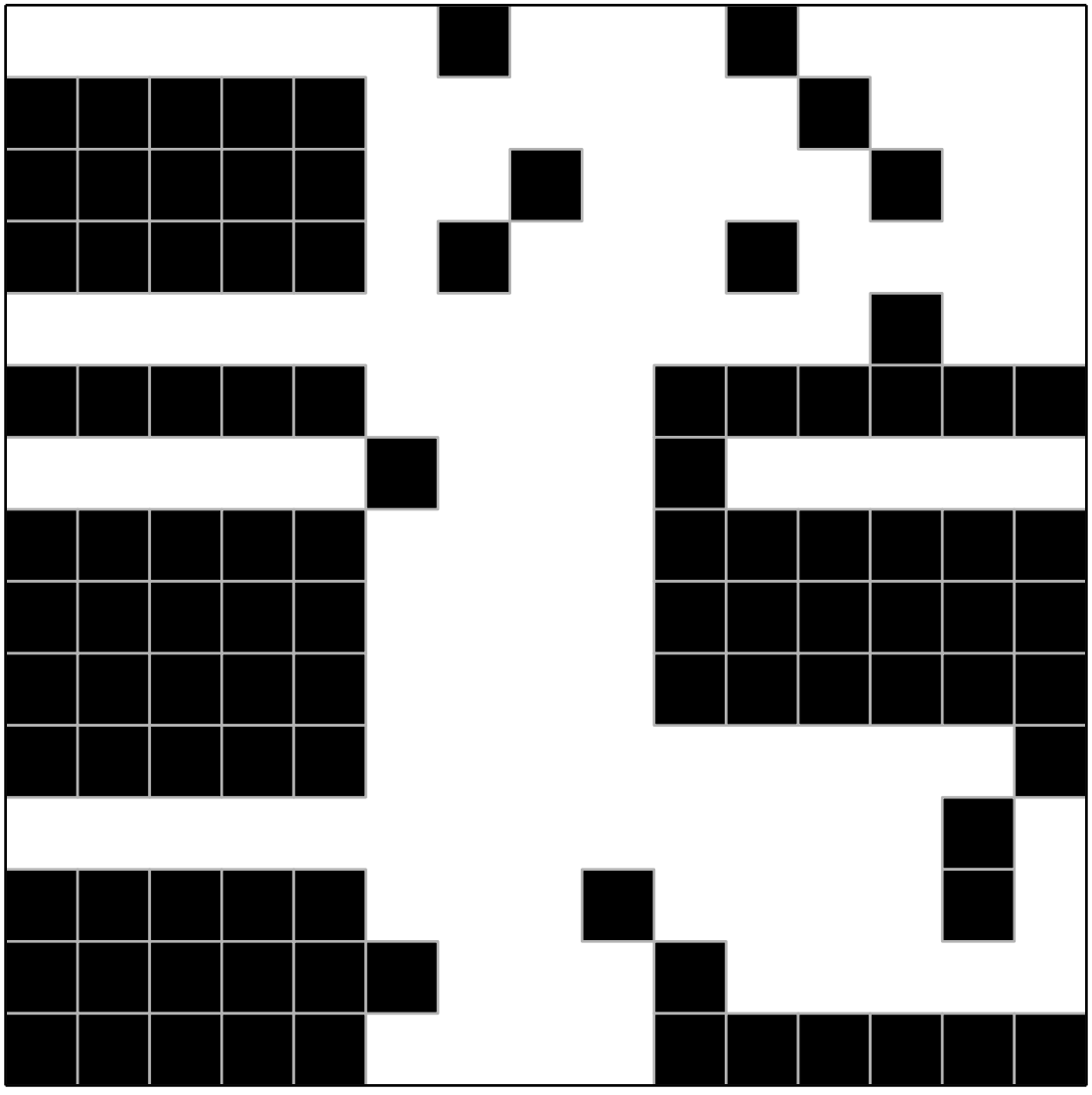
lib2_hs107-09 15x15 (101) con: 6, var: 9



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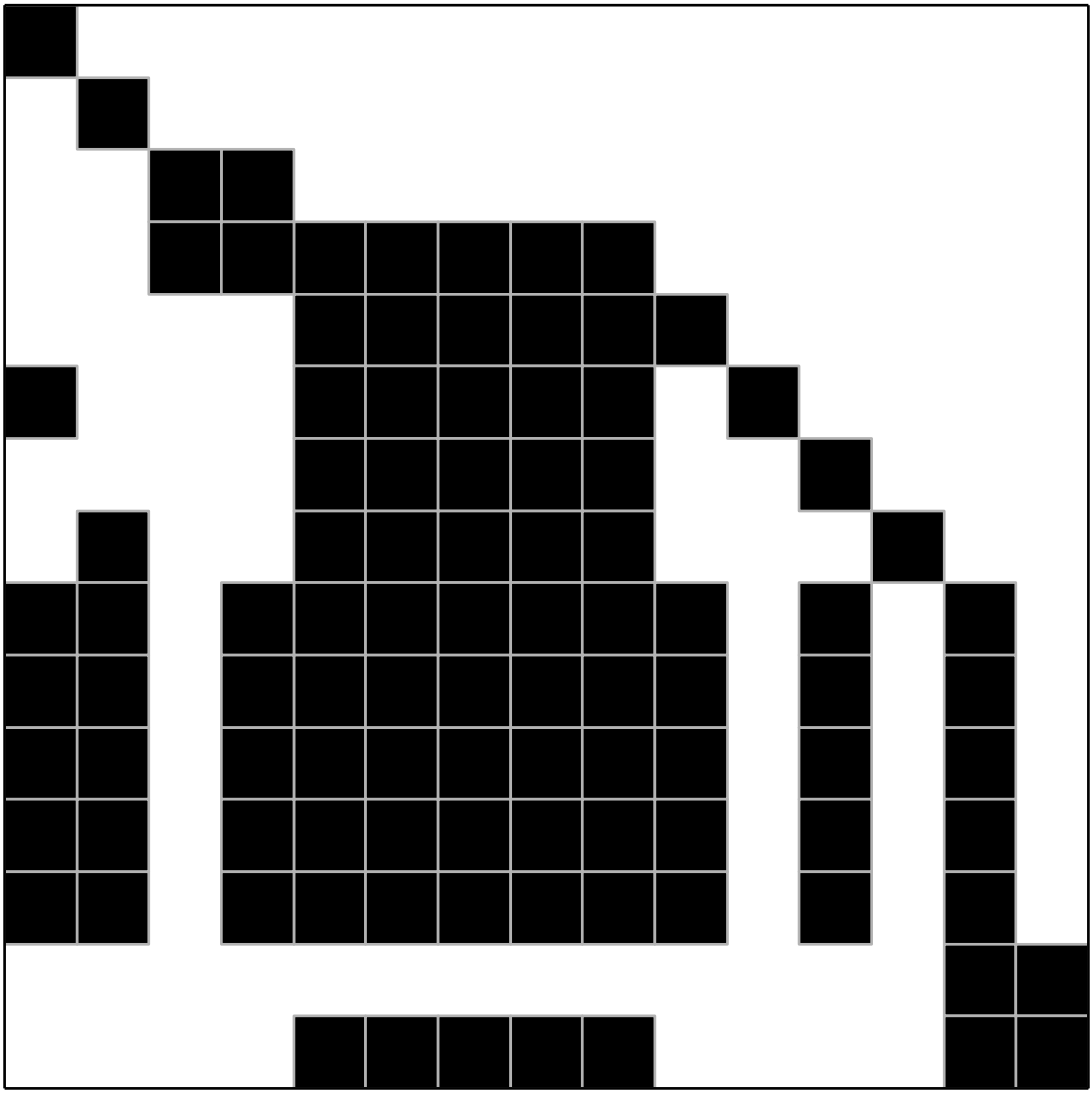
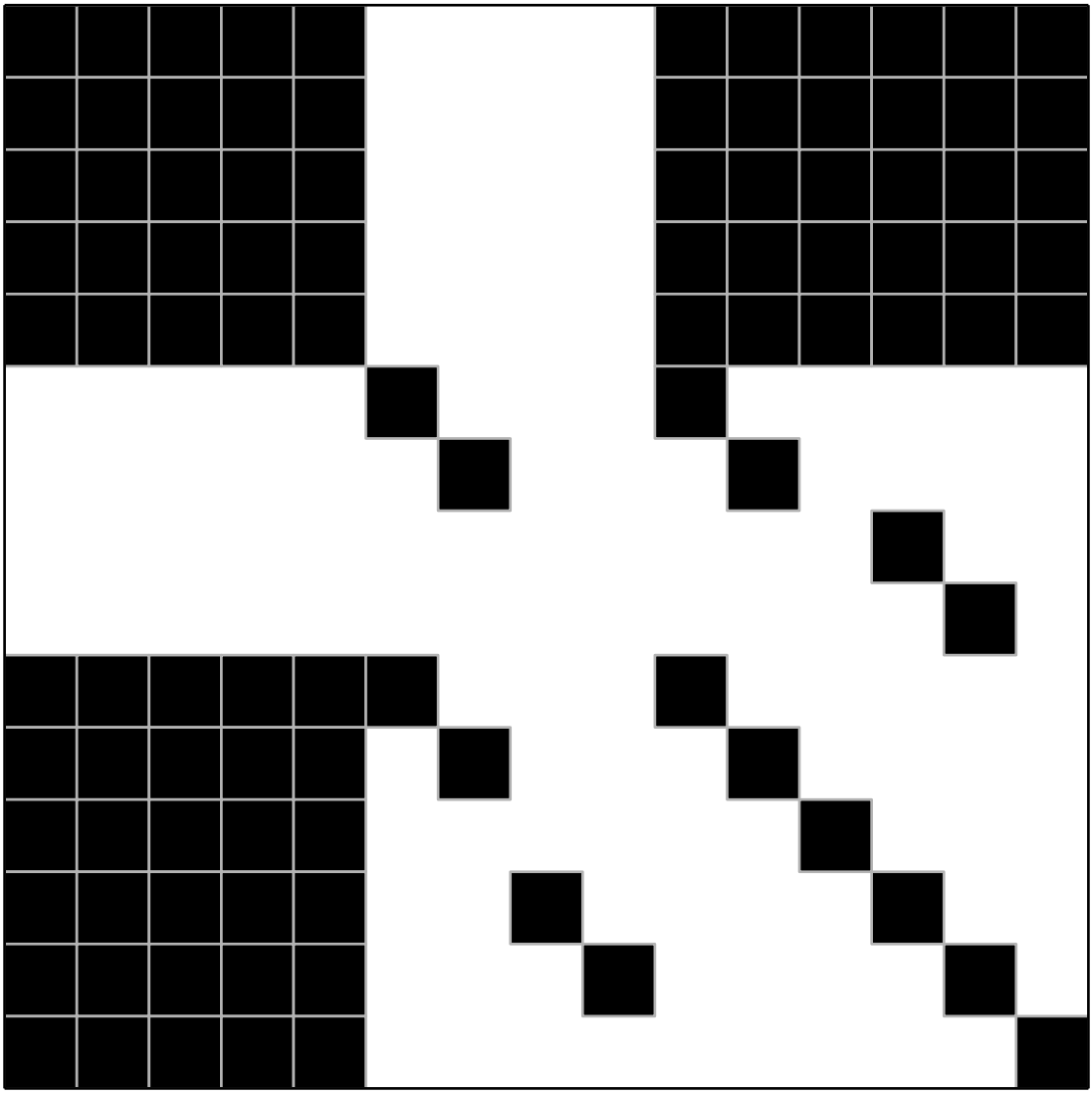
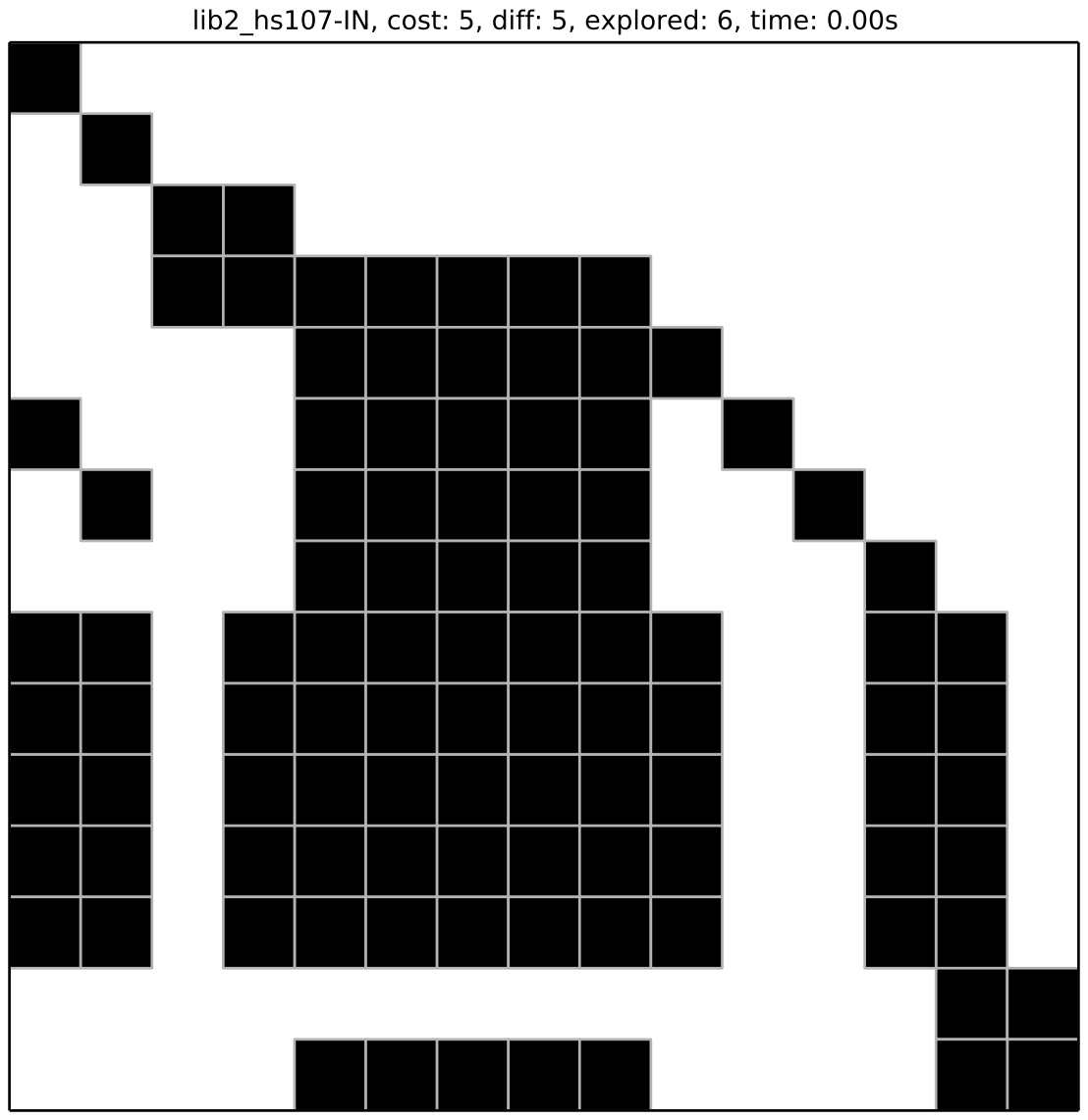


lib2_hs107-IN 15x15 (101) con: 6, var: 9

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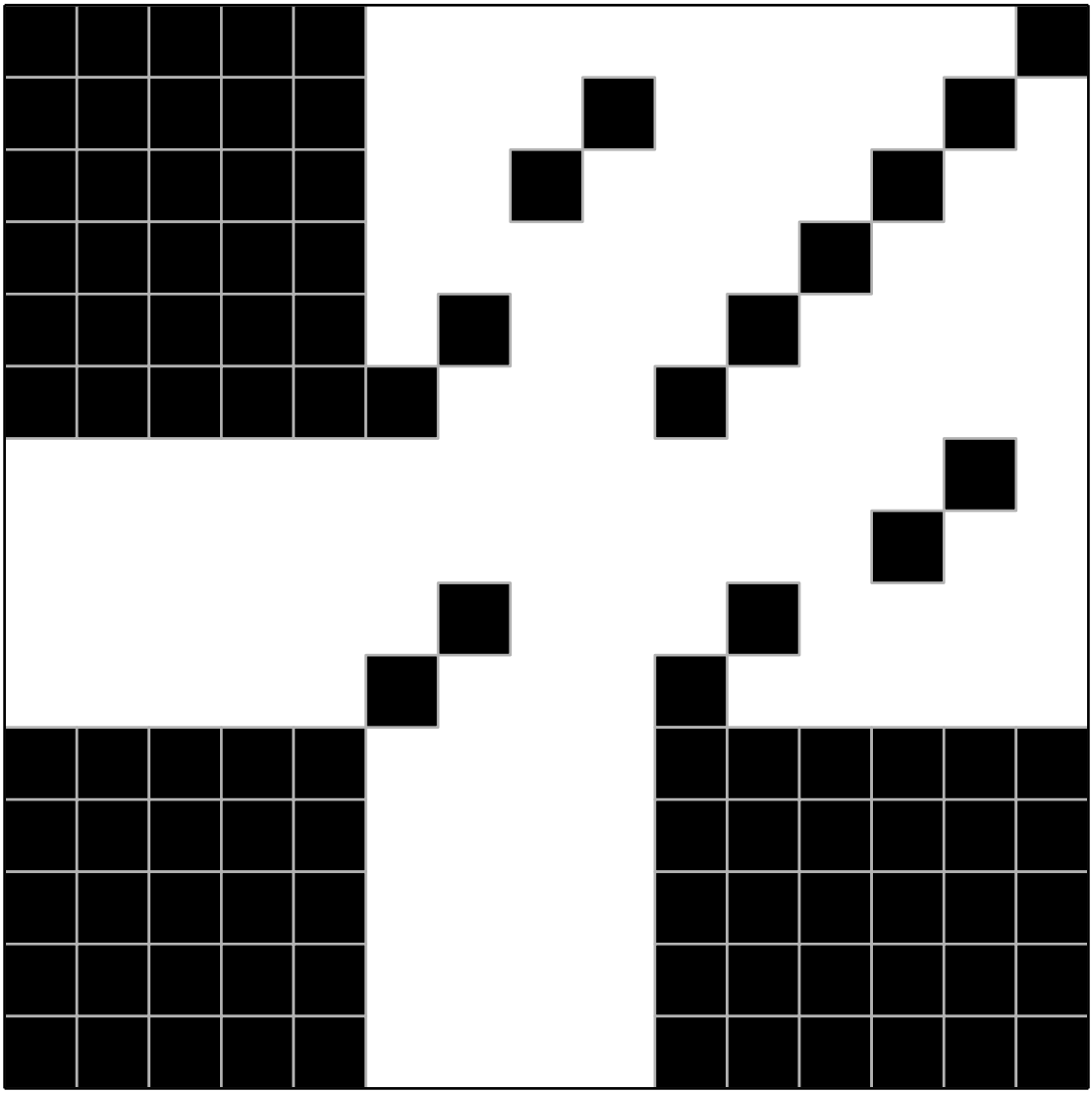
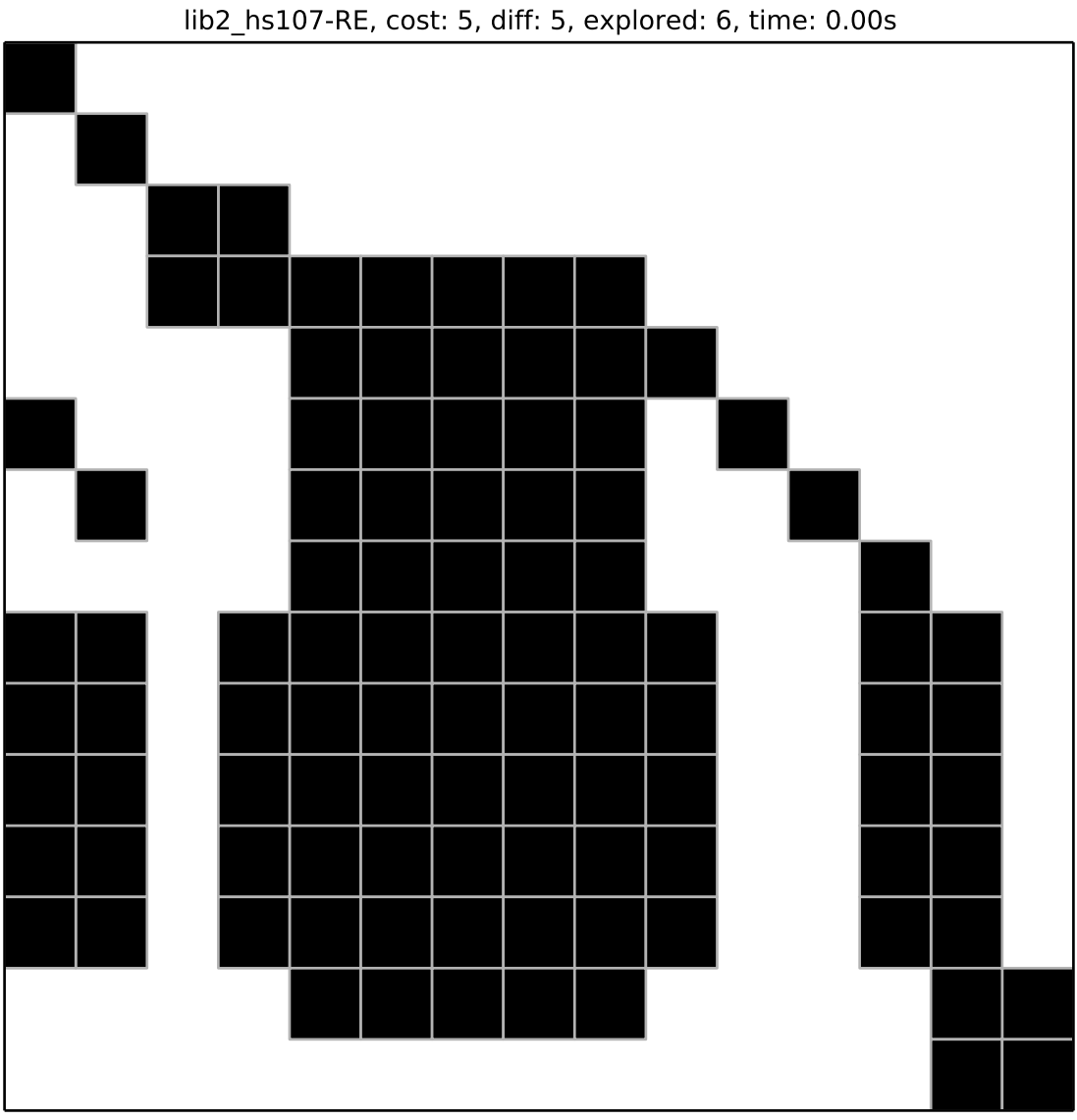
lib2_hs107-RE 15x15 (101) con: 6, var: 9

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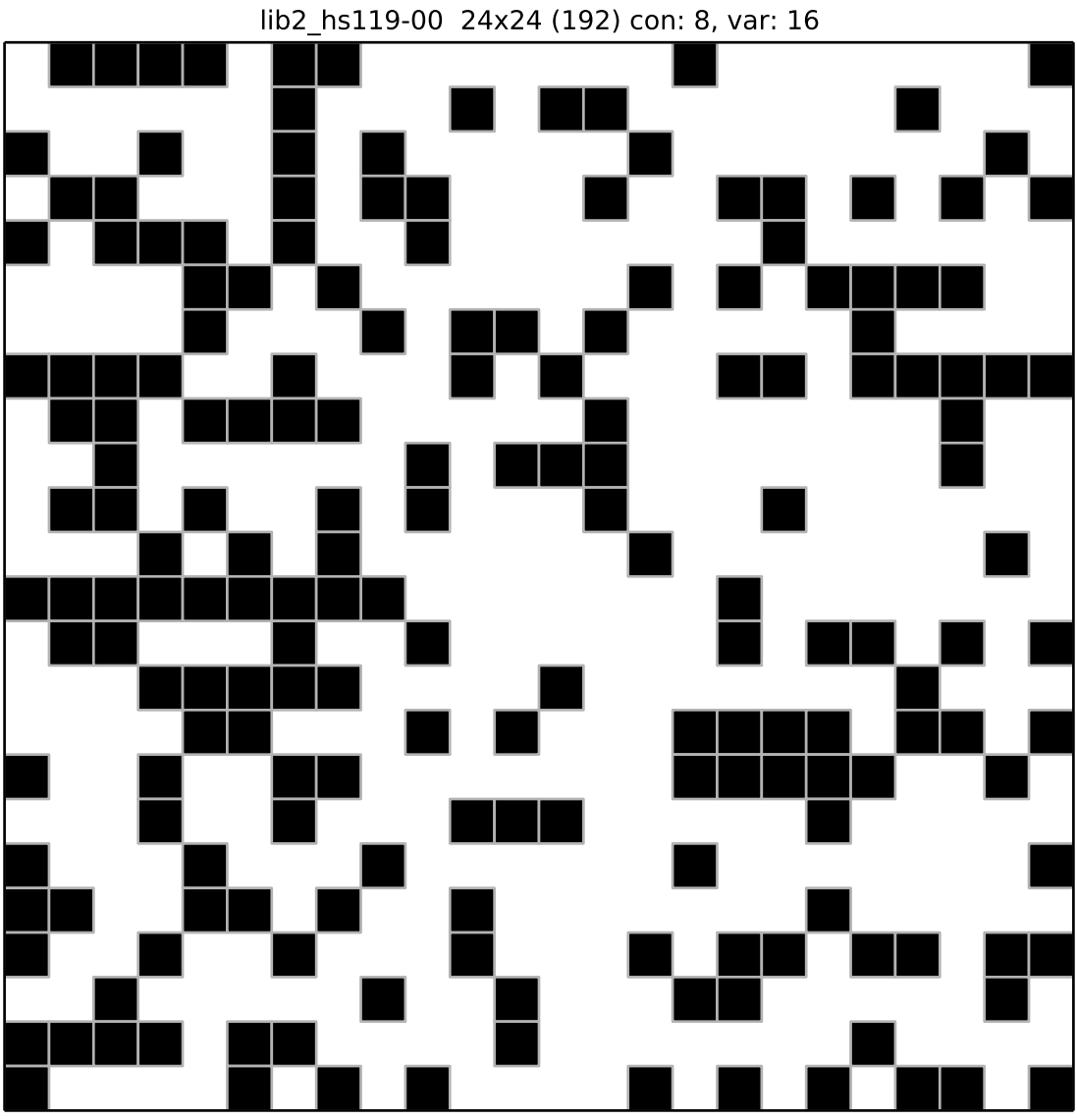
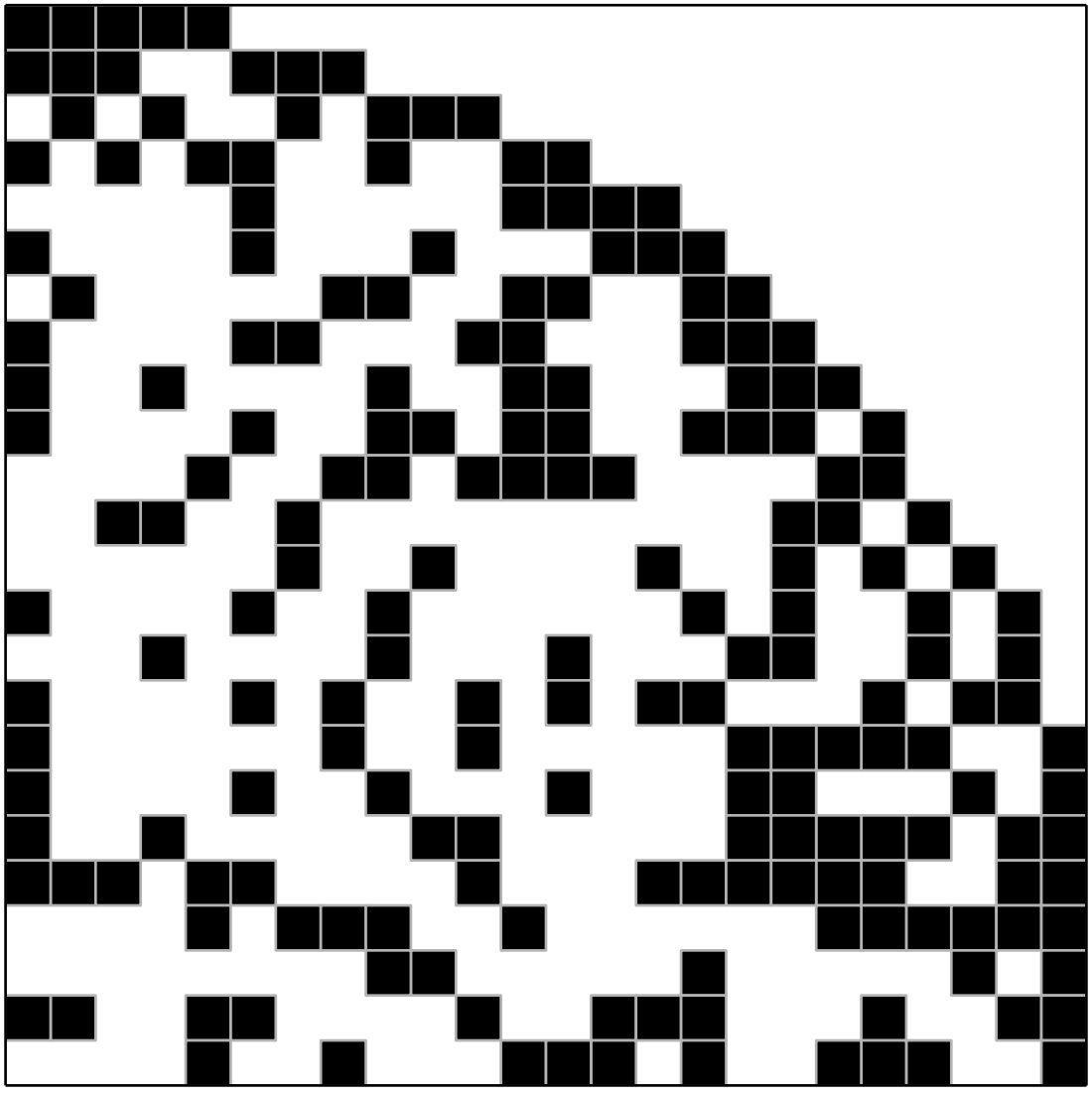
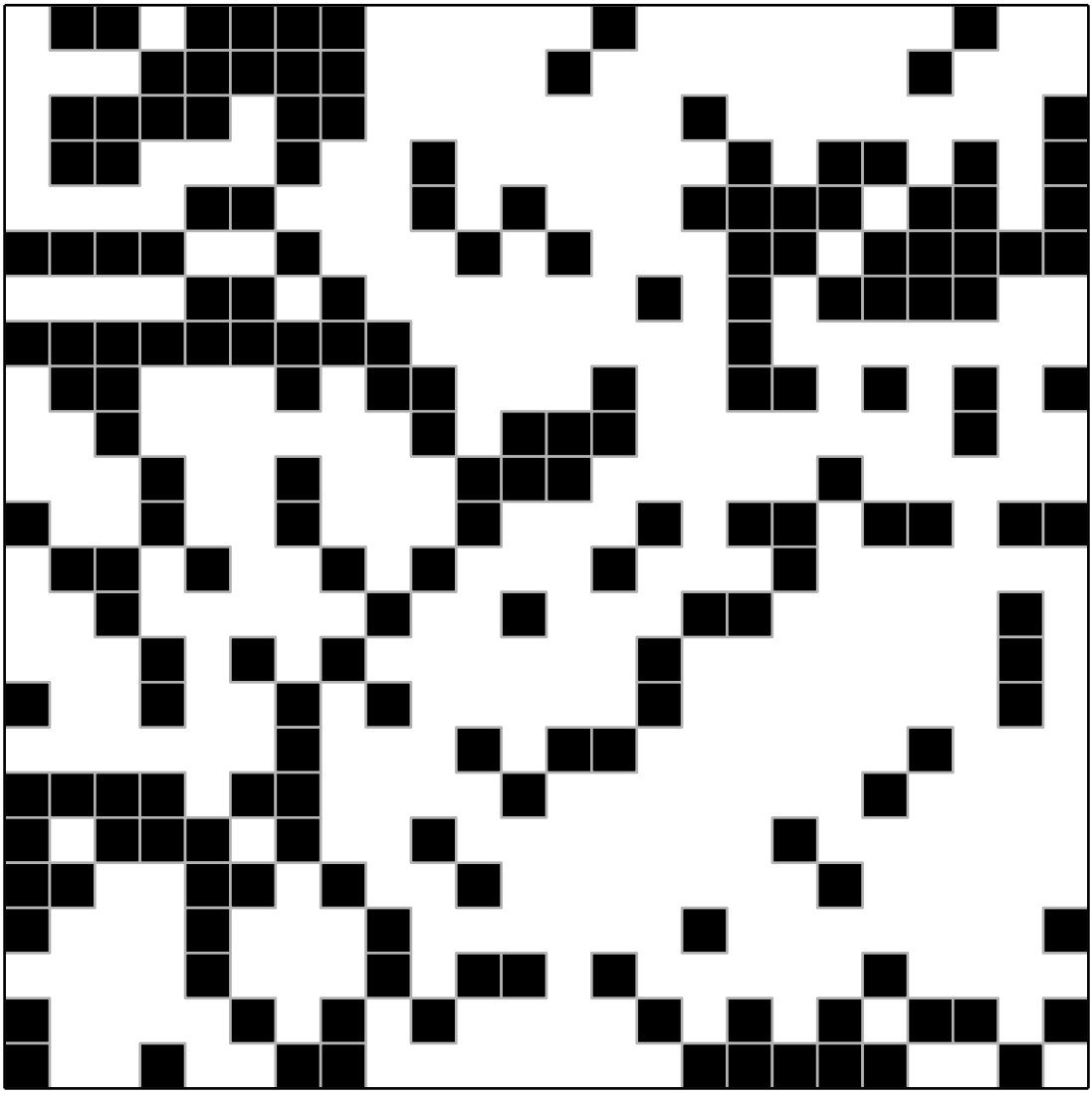
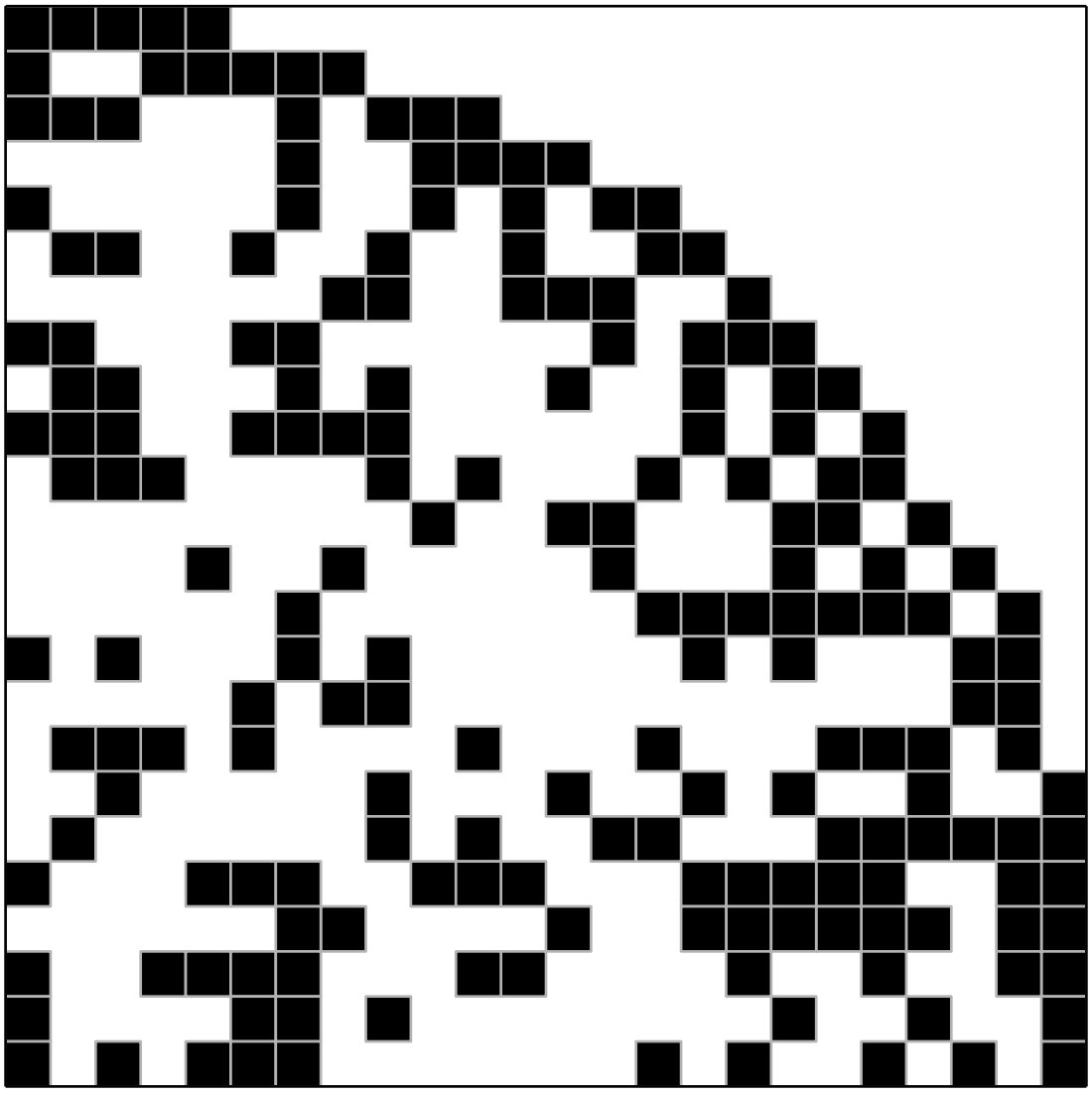

lib2_hs119-00 24x24 (192) con: 8, var: 16


lib2_hs119-00, cost: 10, diff: 10, explored: 204, time: 0.06s

lib2_hs119-01 24x24 (192) con: 8, var: 16

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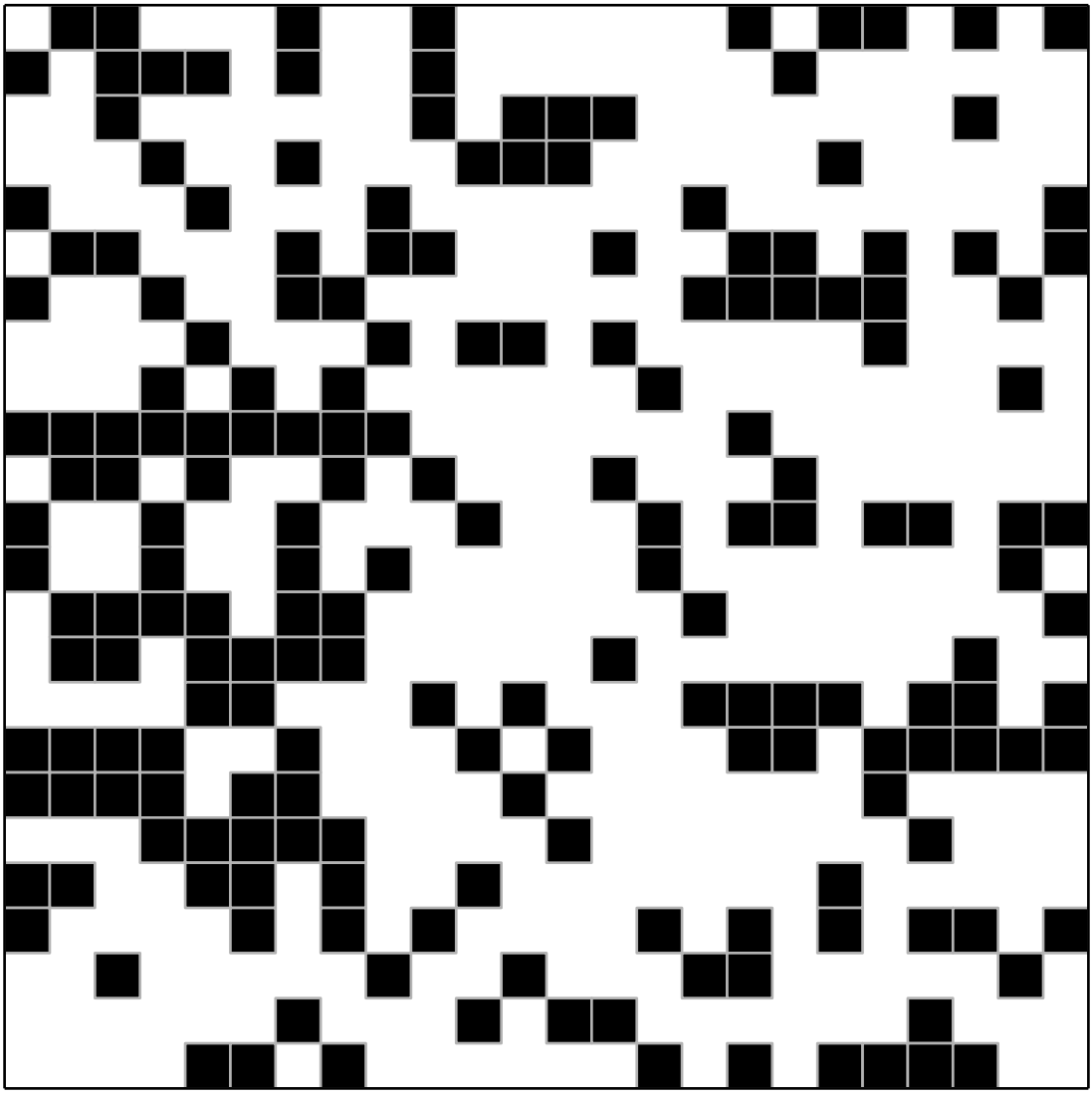
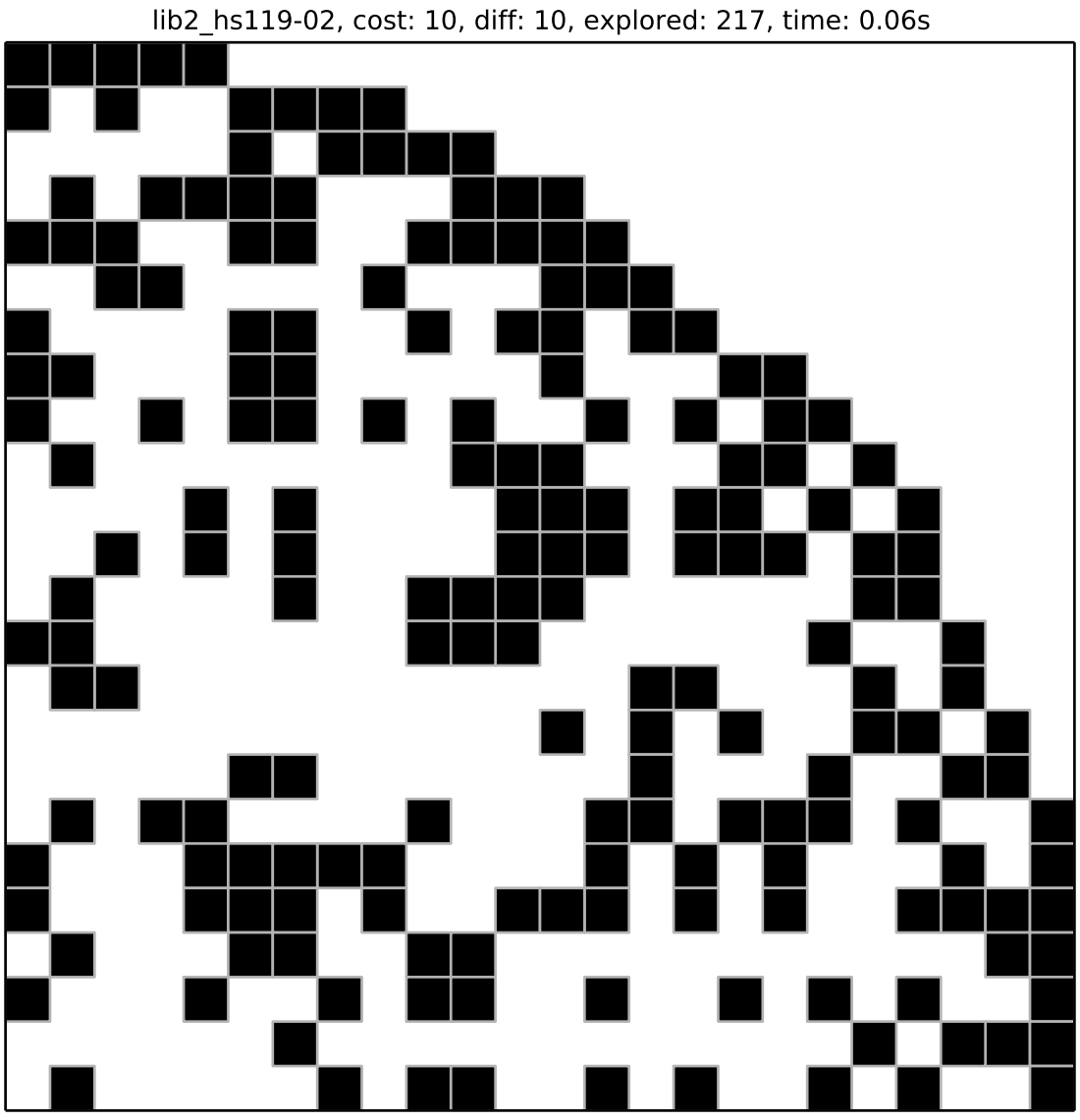
lib2_hs119-02 24x24 (192) con: 8, var: 16

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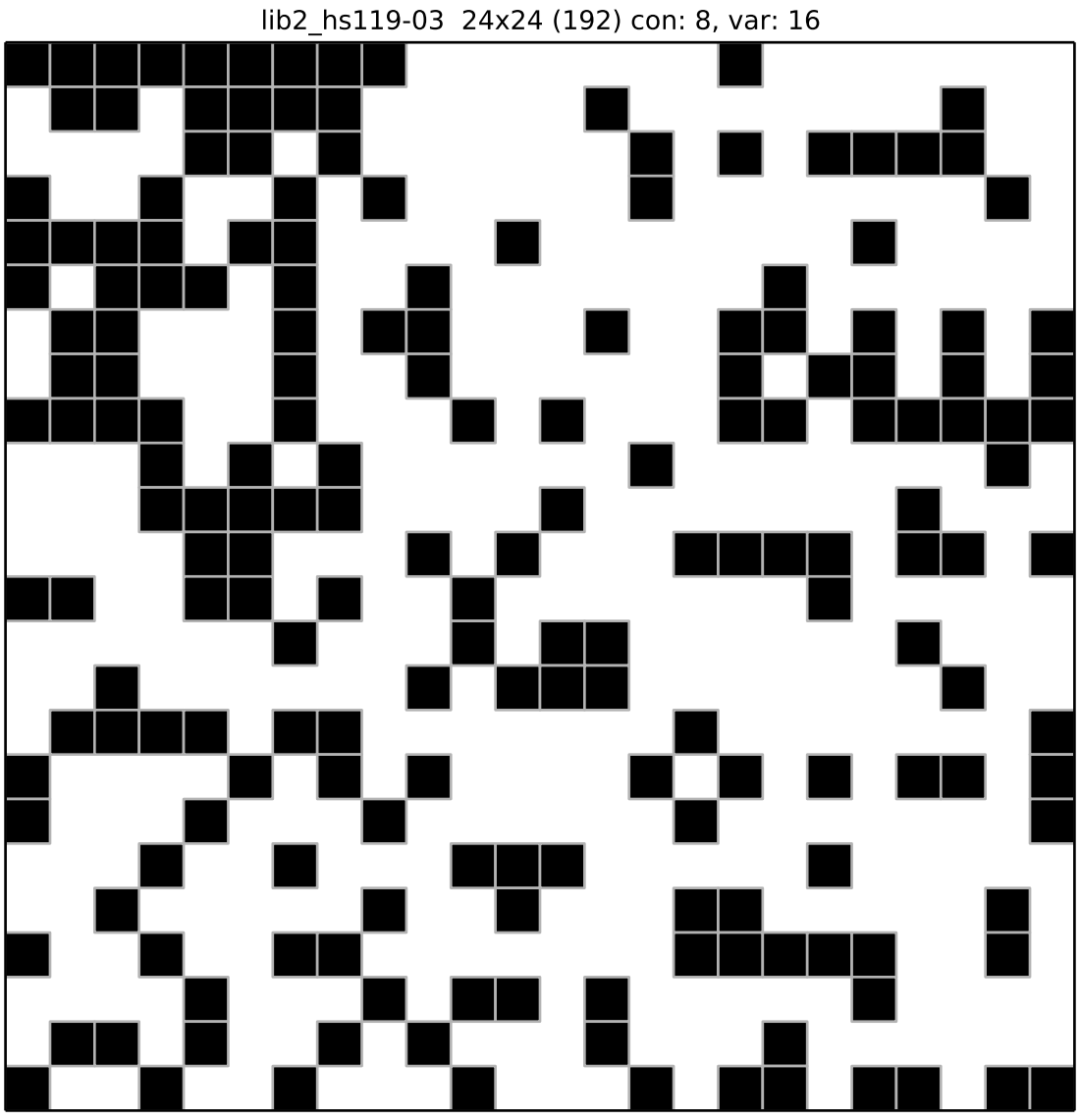
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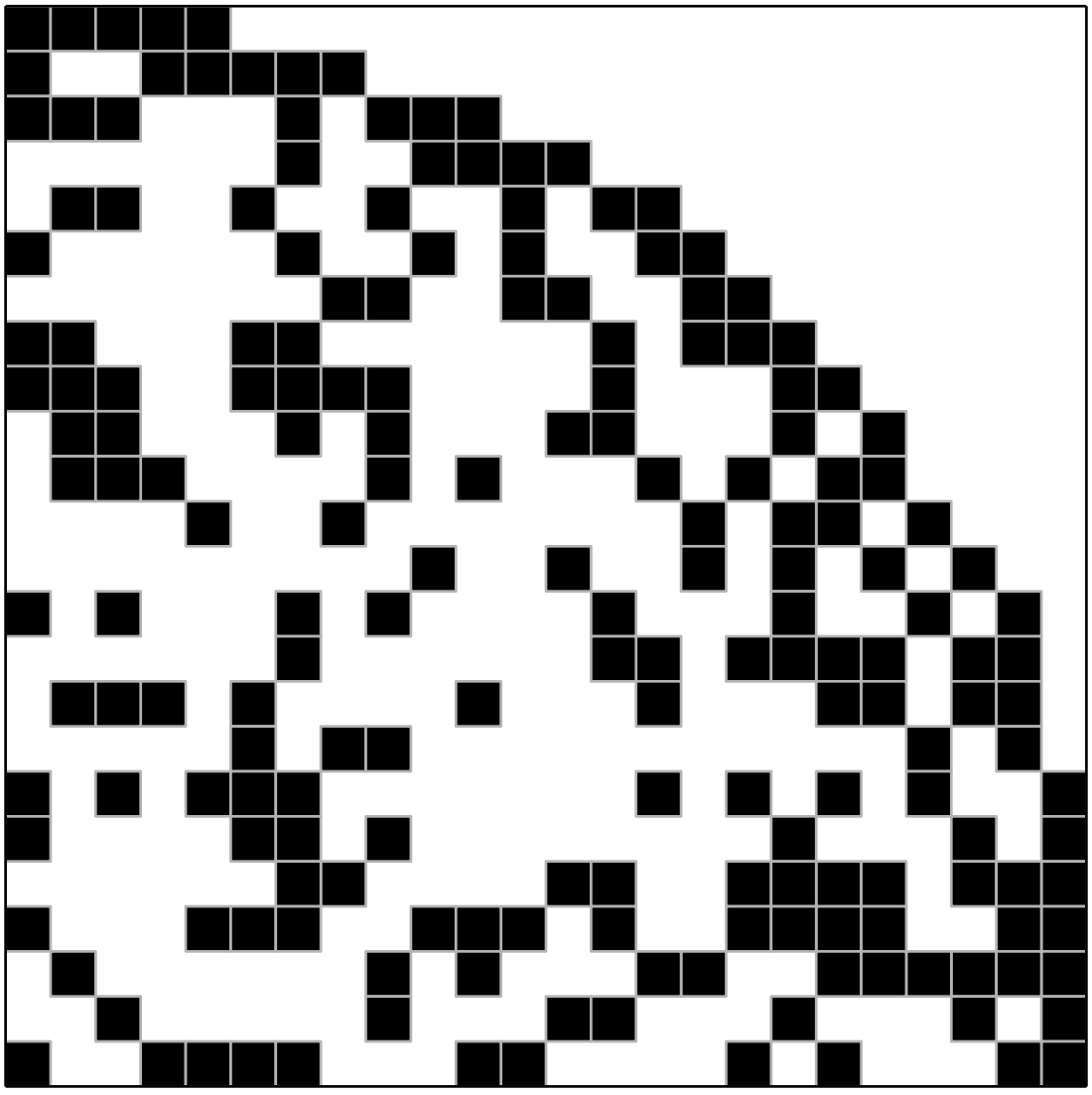
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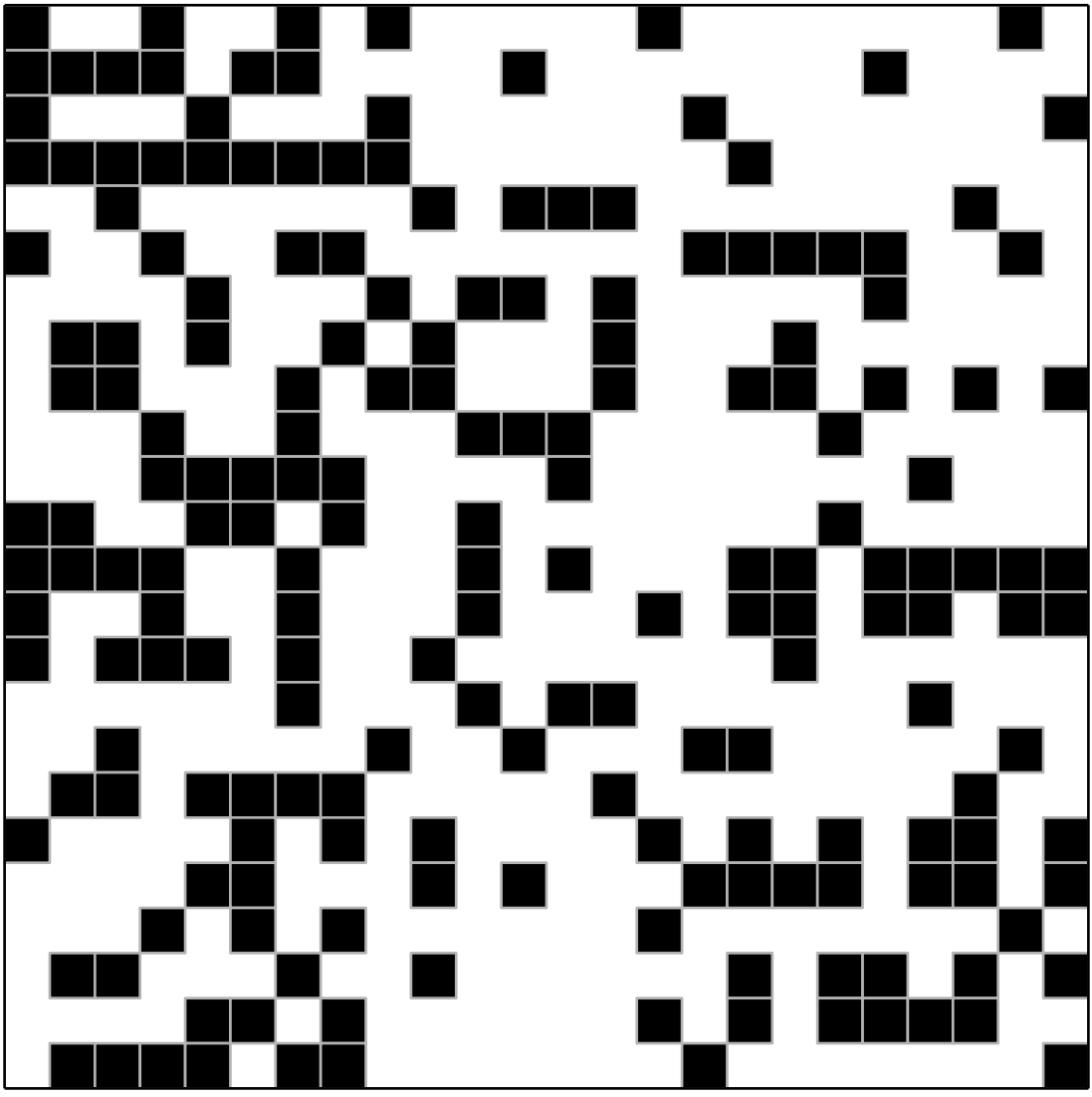
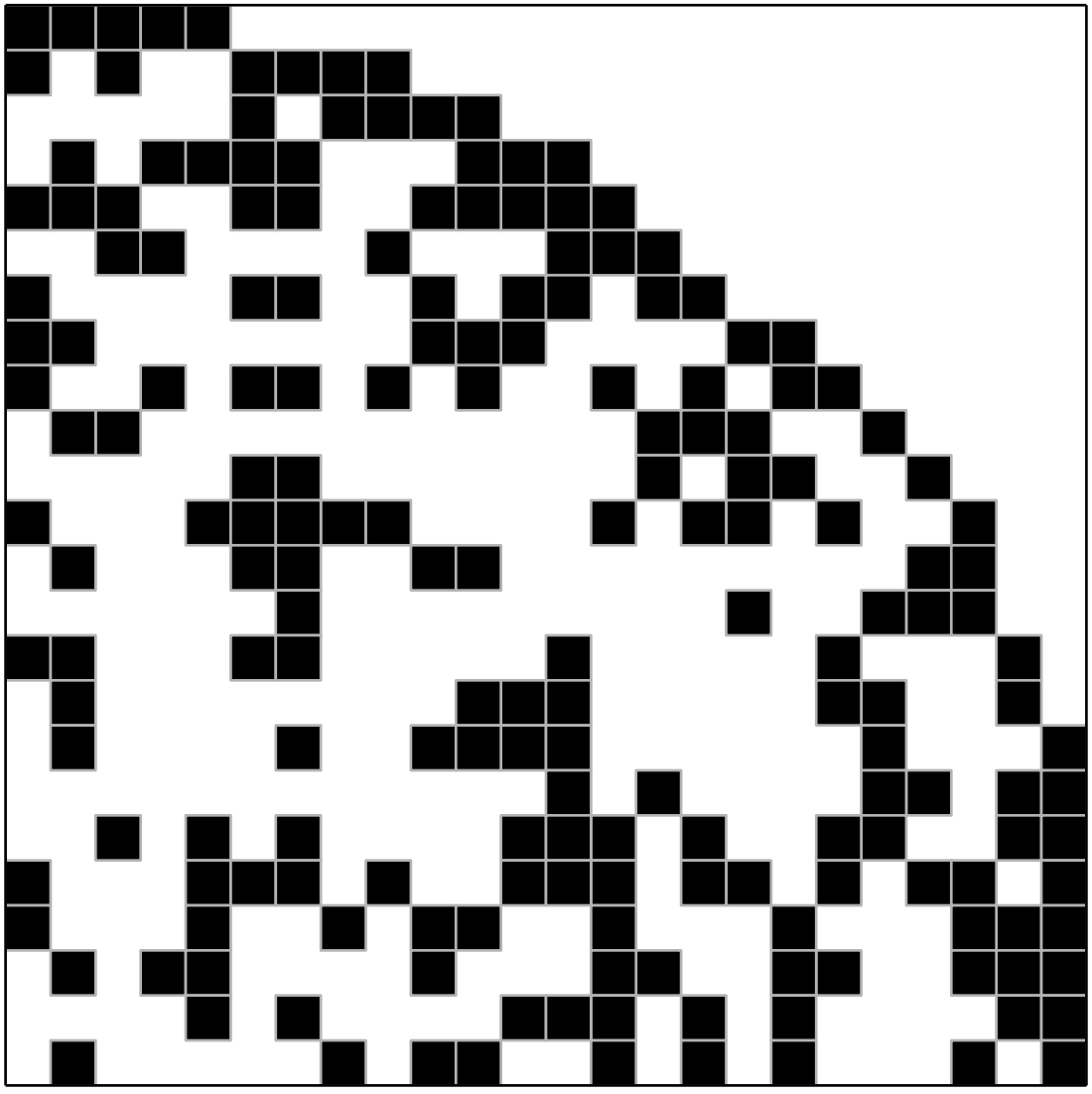
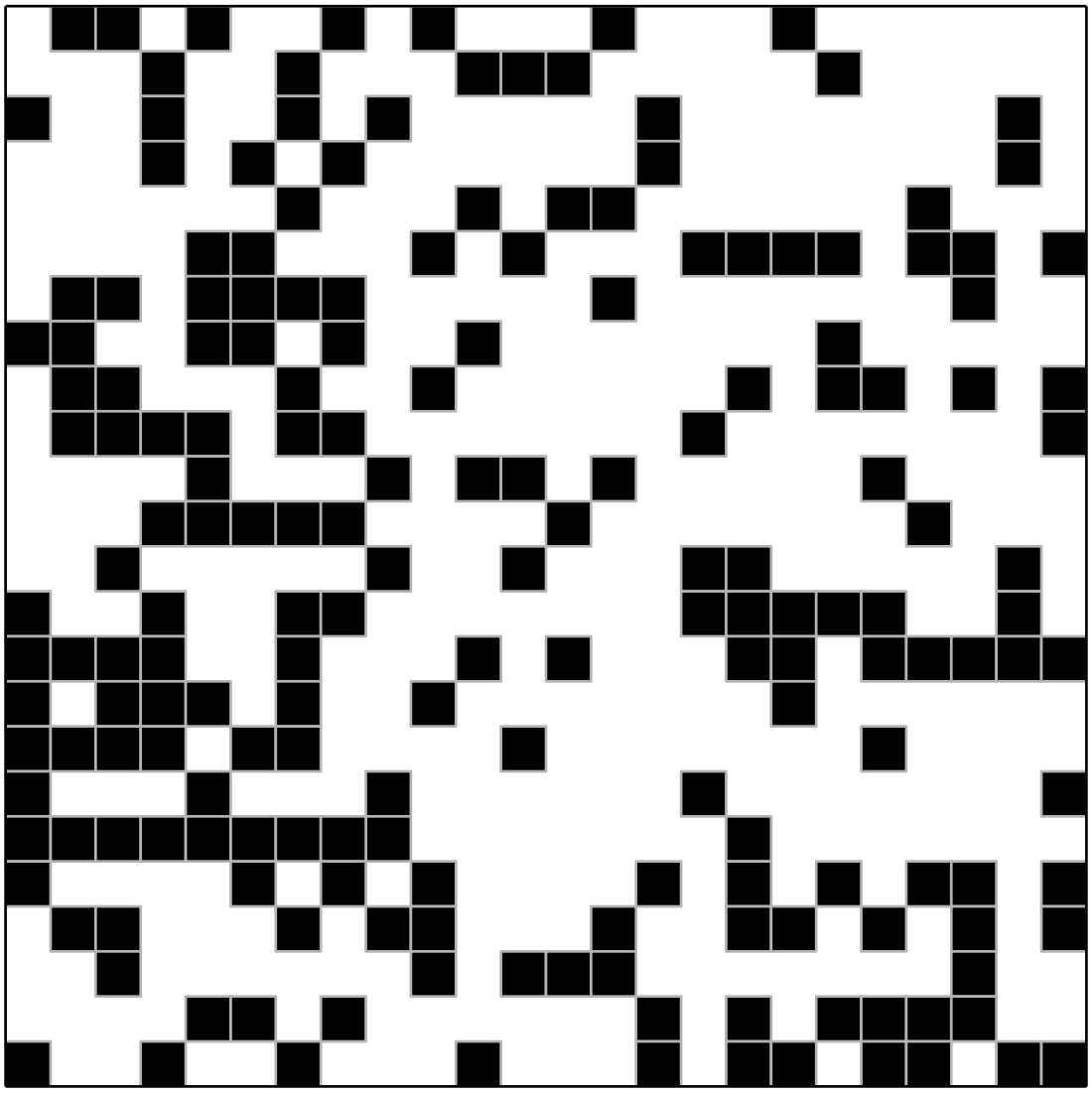
lib2_hs119-04 24x24 (192) con: 8, var: 16



lib2_hs119-04, cost: 10, diff: 10, explored: 209, time: 0.06s

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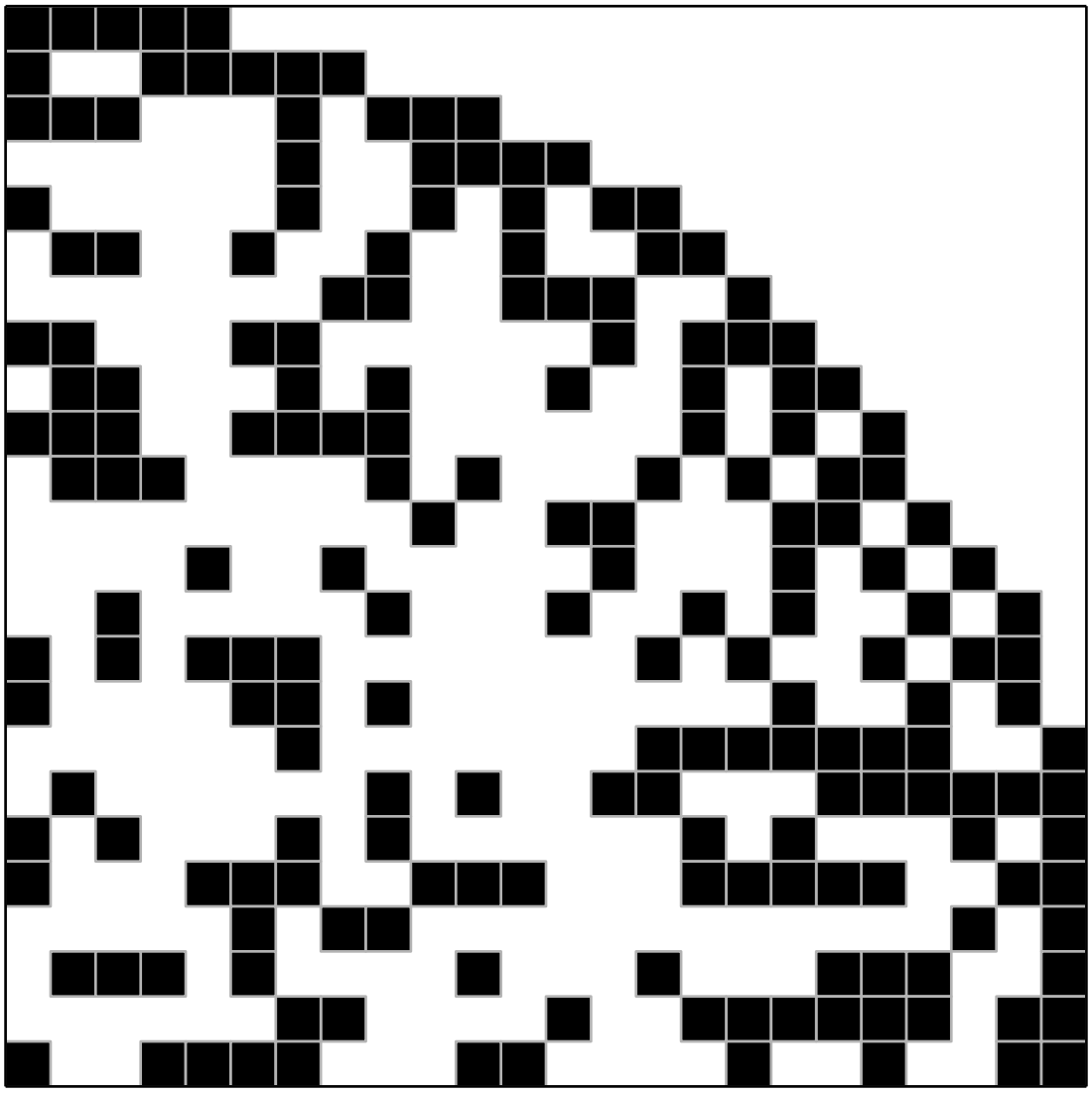
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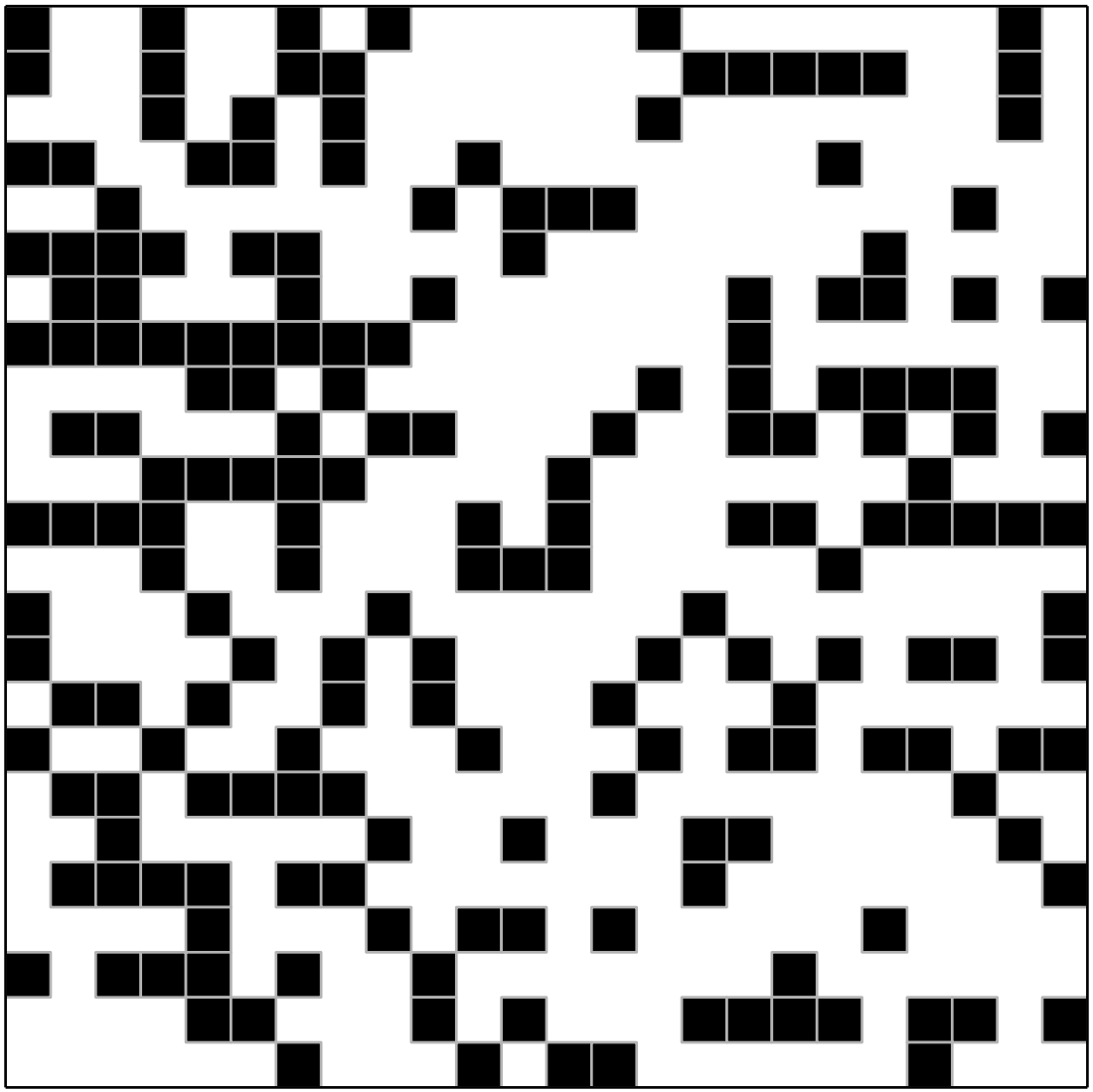
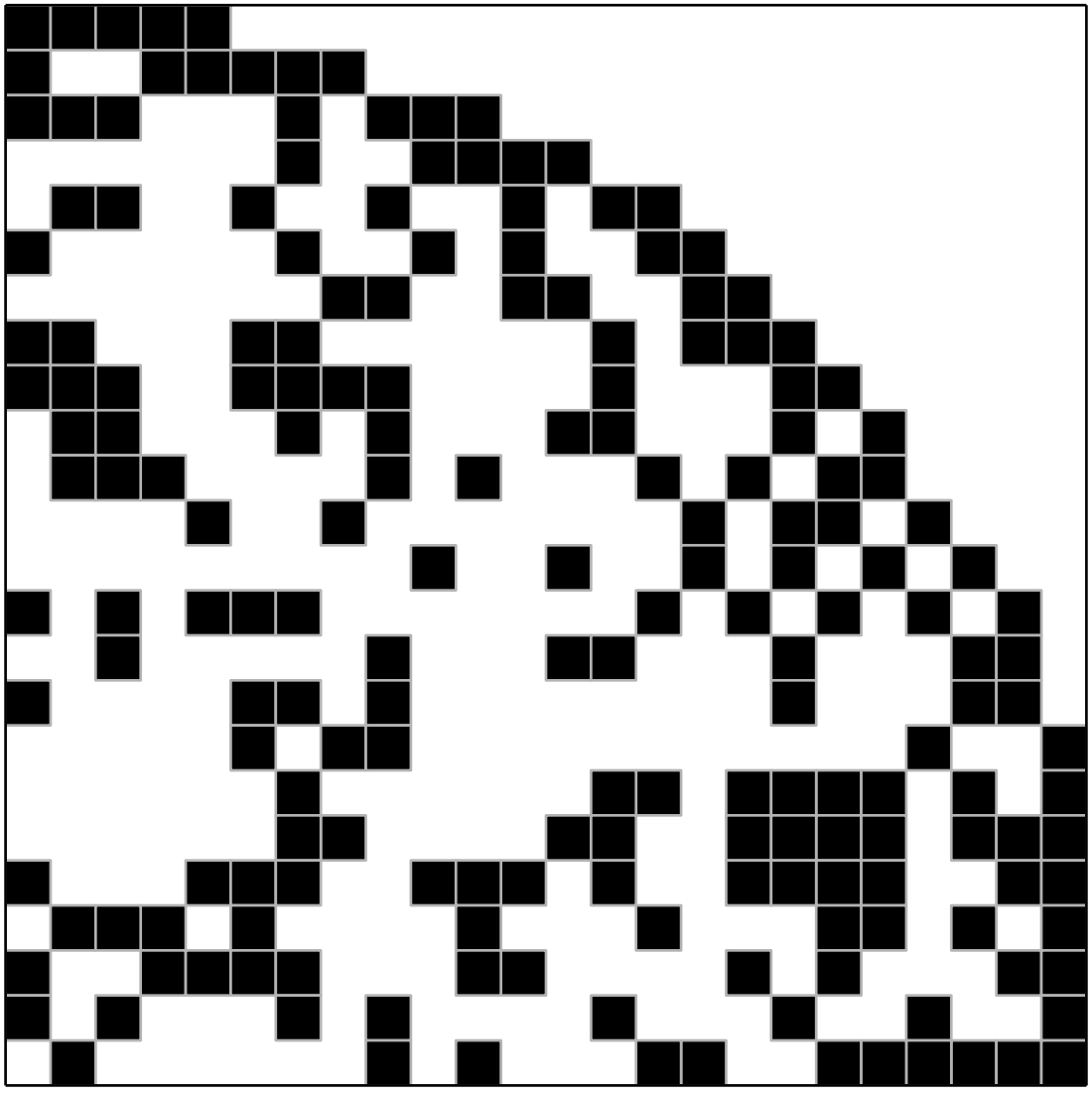
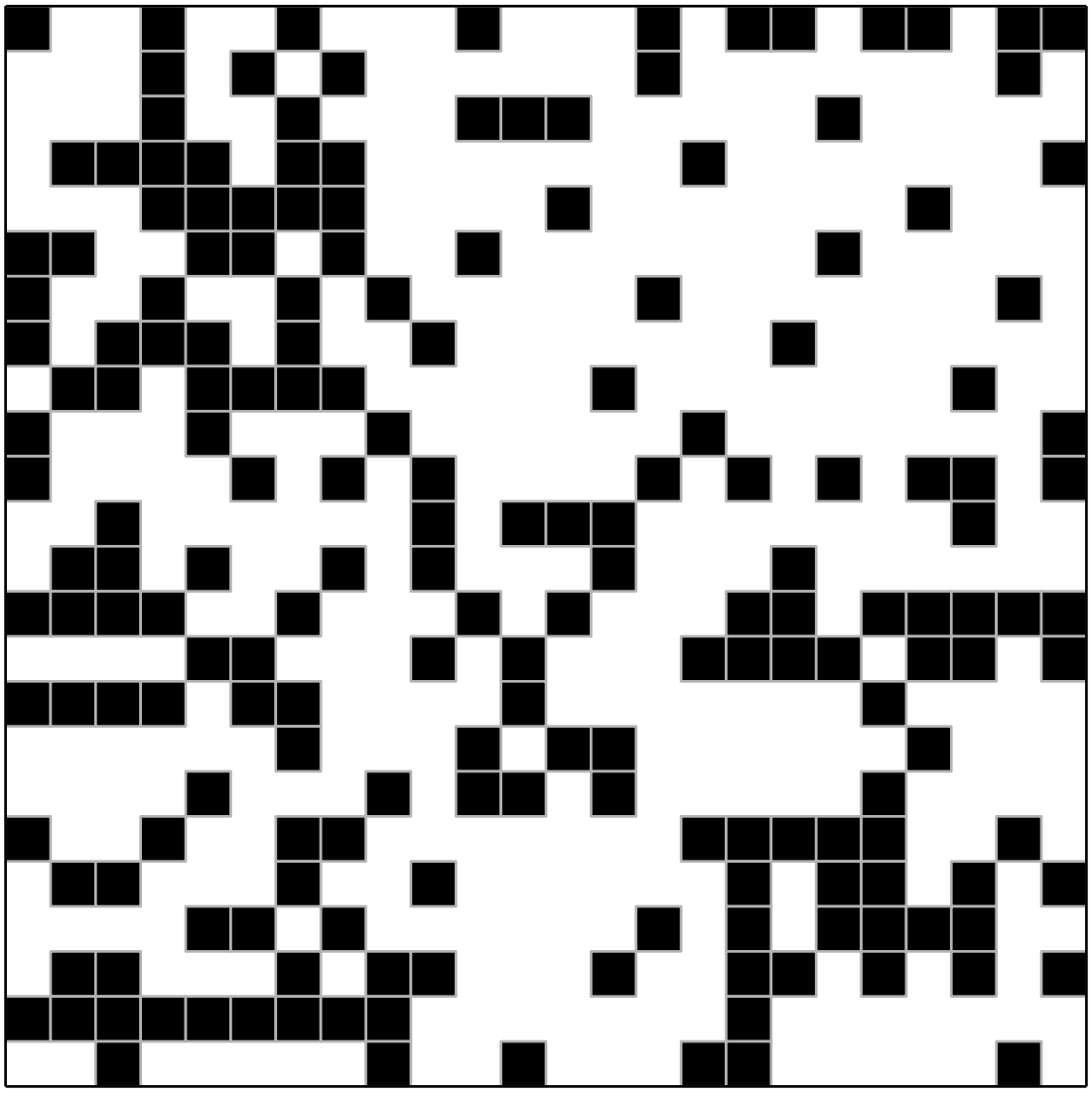
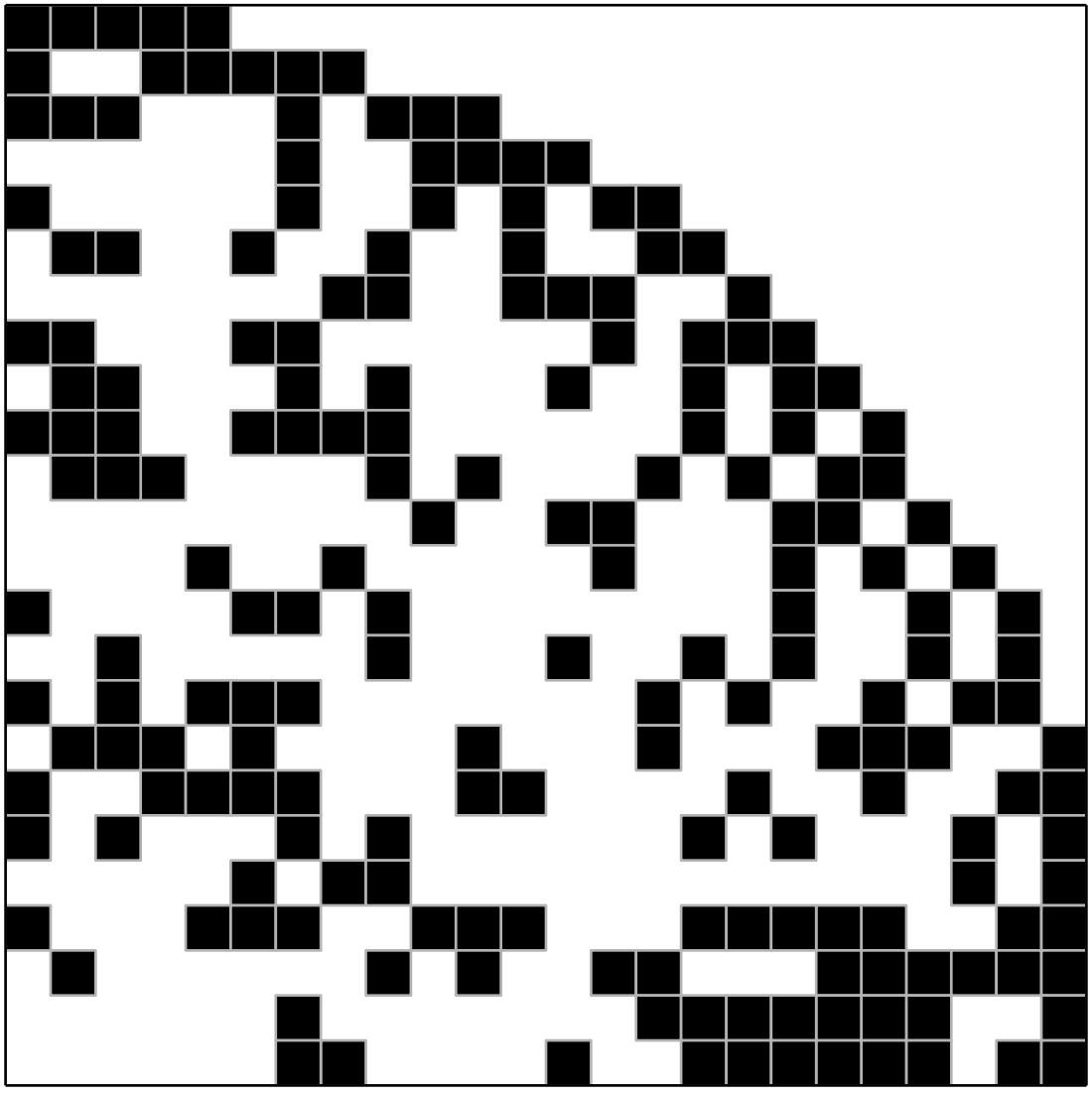

lib2_hs119-06 24x24 (192) con: 8, var: 16

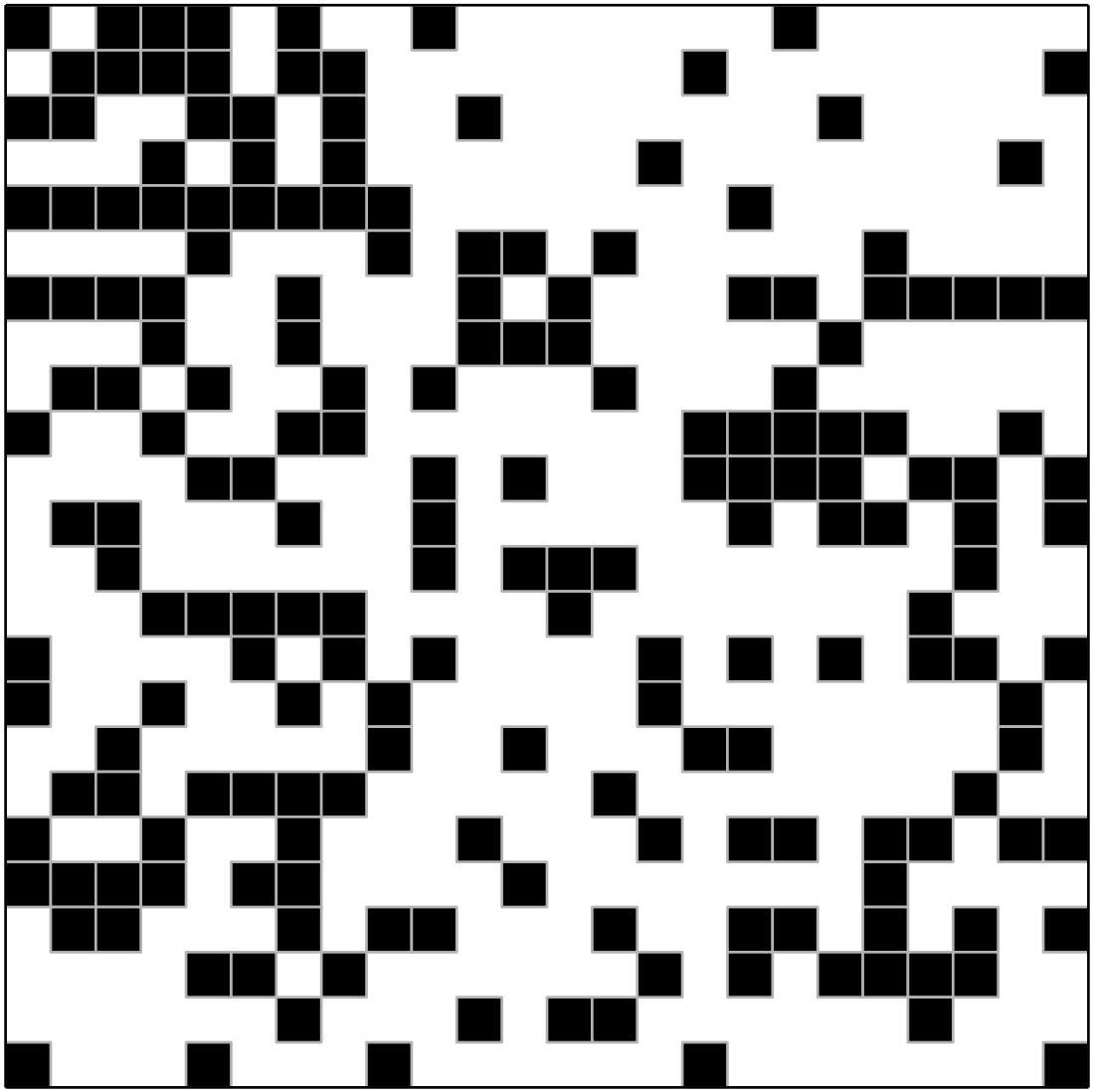
lib2_hs119-06, cost: 10, diff: 10, explored: 207, time: 0.06s

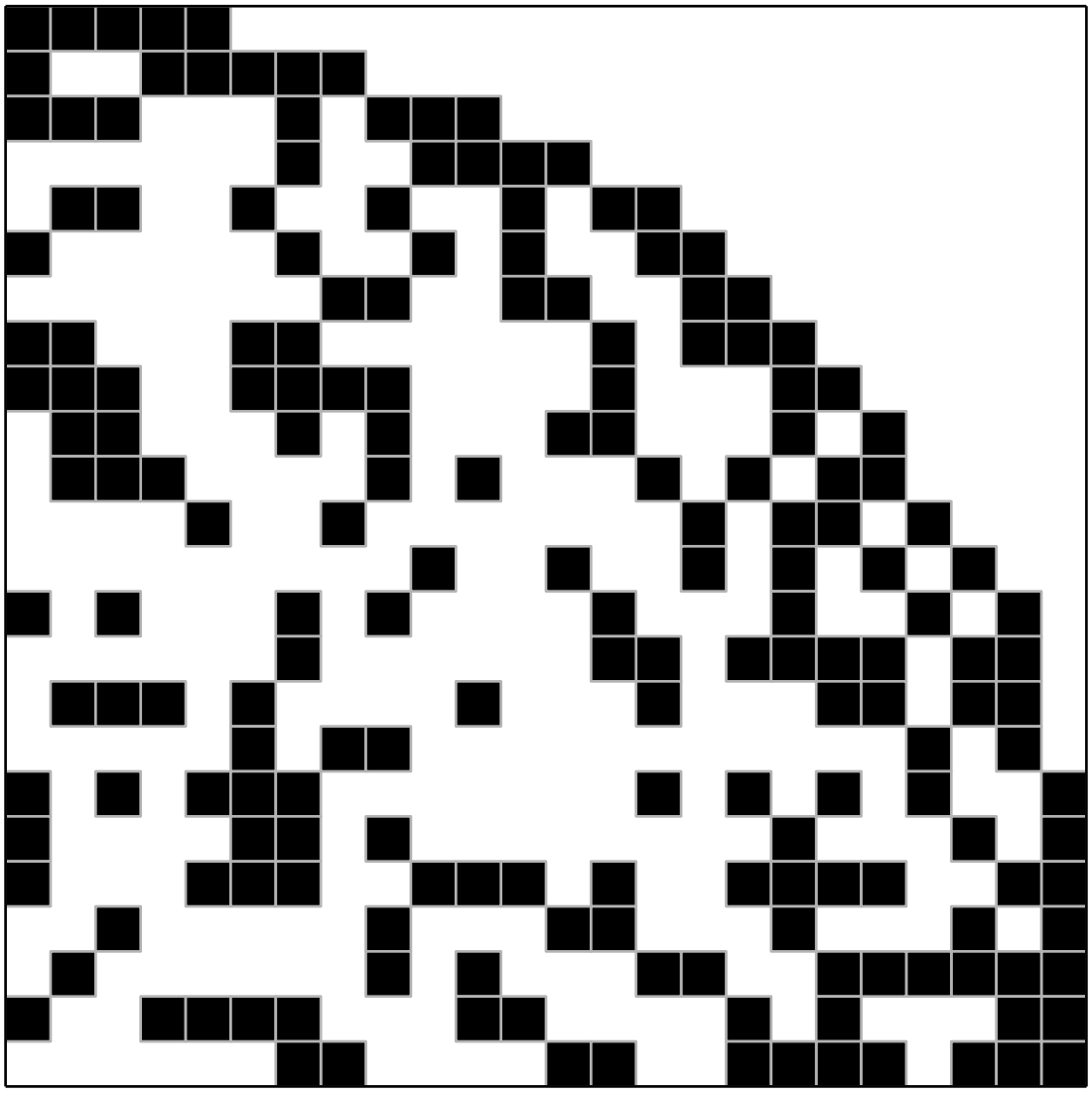



lib2_hs119-07 24x24 (192) con: 8, var: 16


lib2_hs119-07, cost: 10, diff: 10, explored: 206, time: 0.06s

lib2_hs119-08 24x24 (192) con: 8, var: 16

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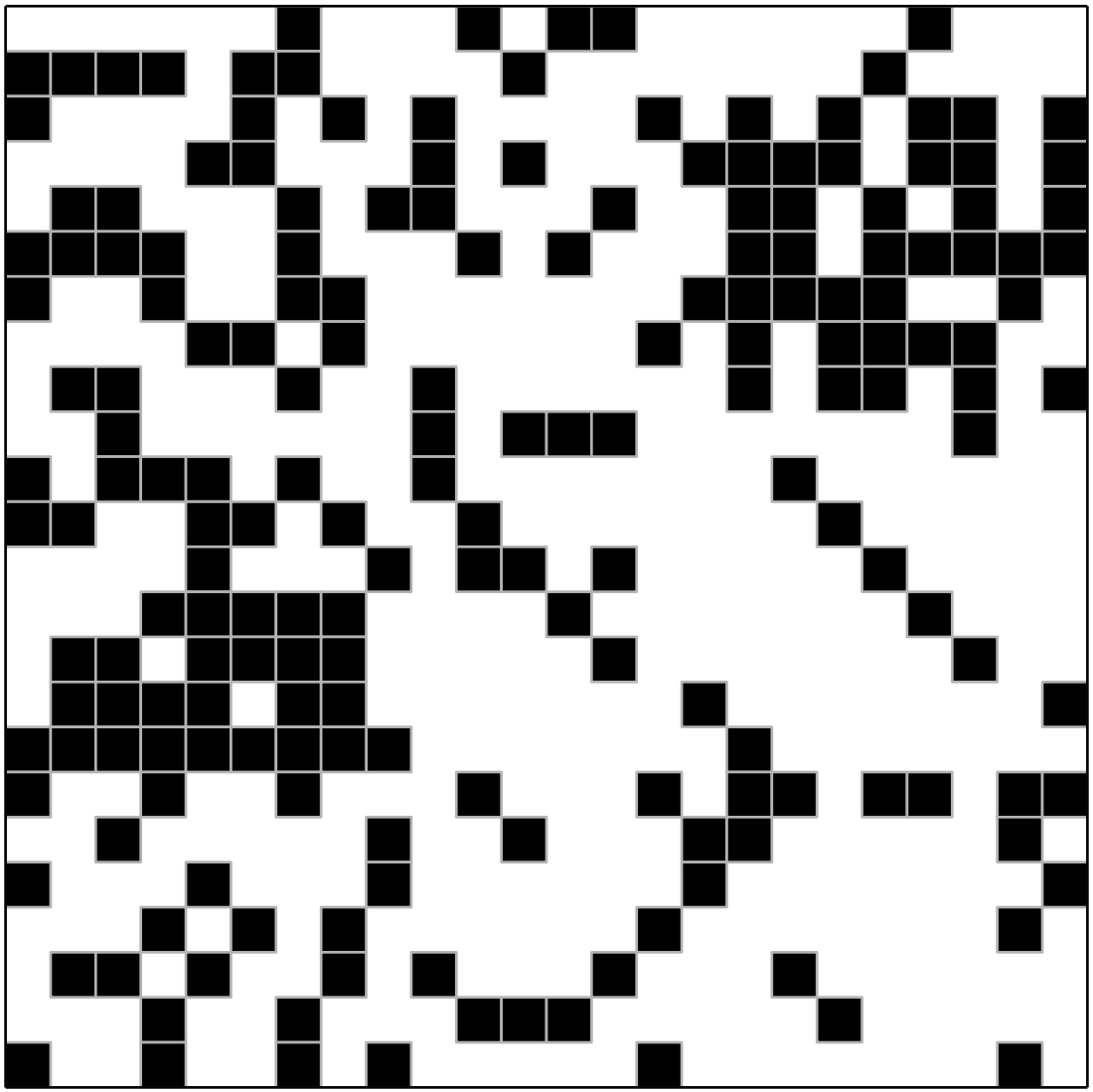
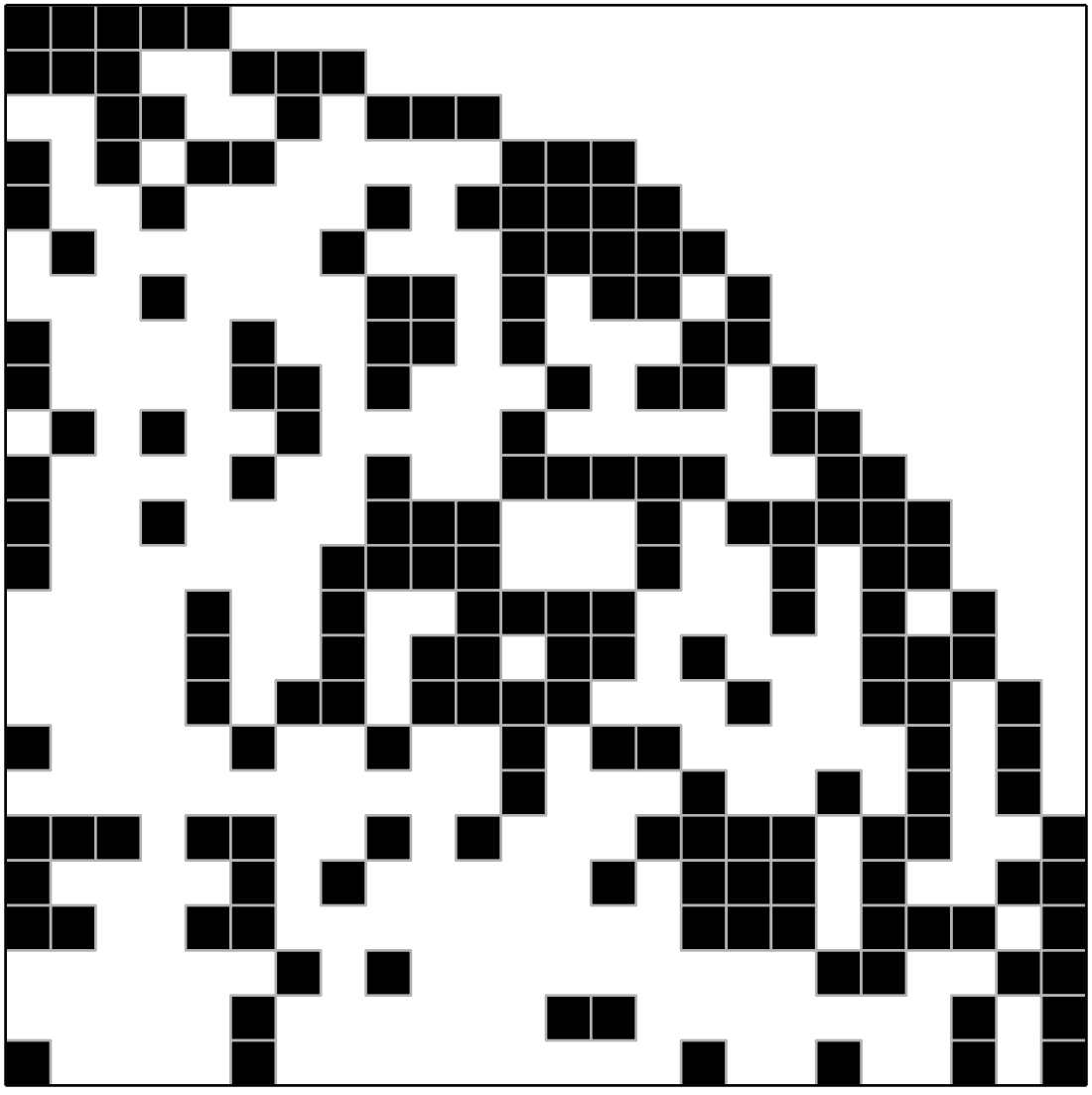

lib2_hs119-09 24x24 (192) con: 8, var: 16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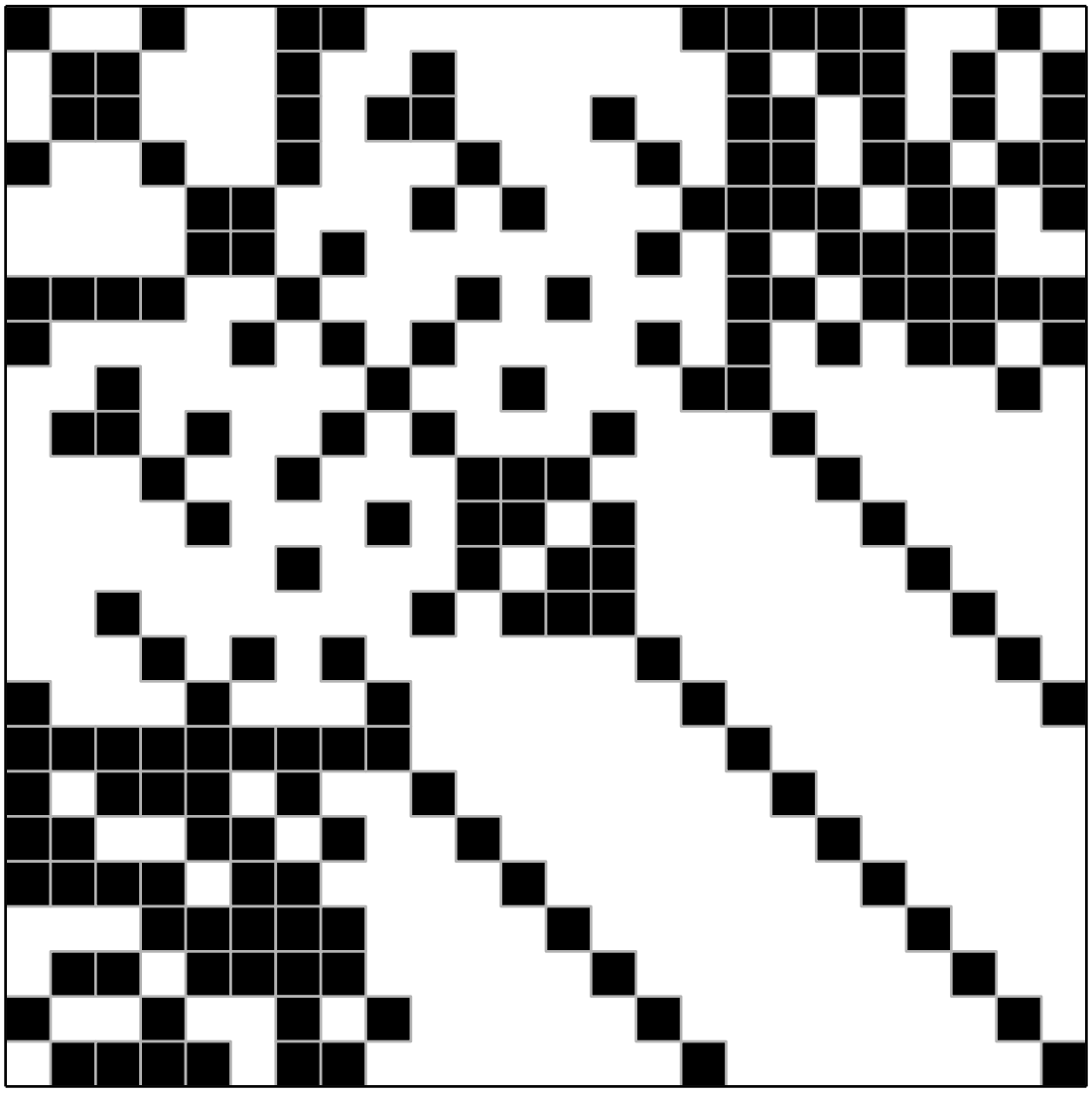
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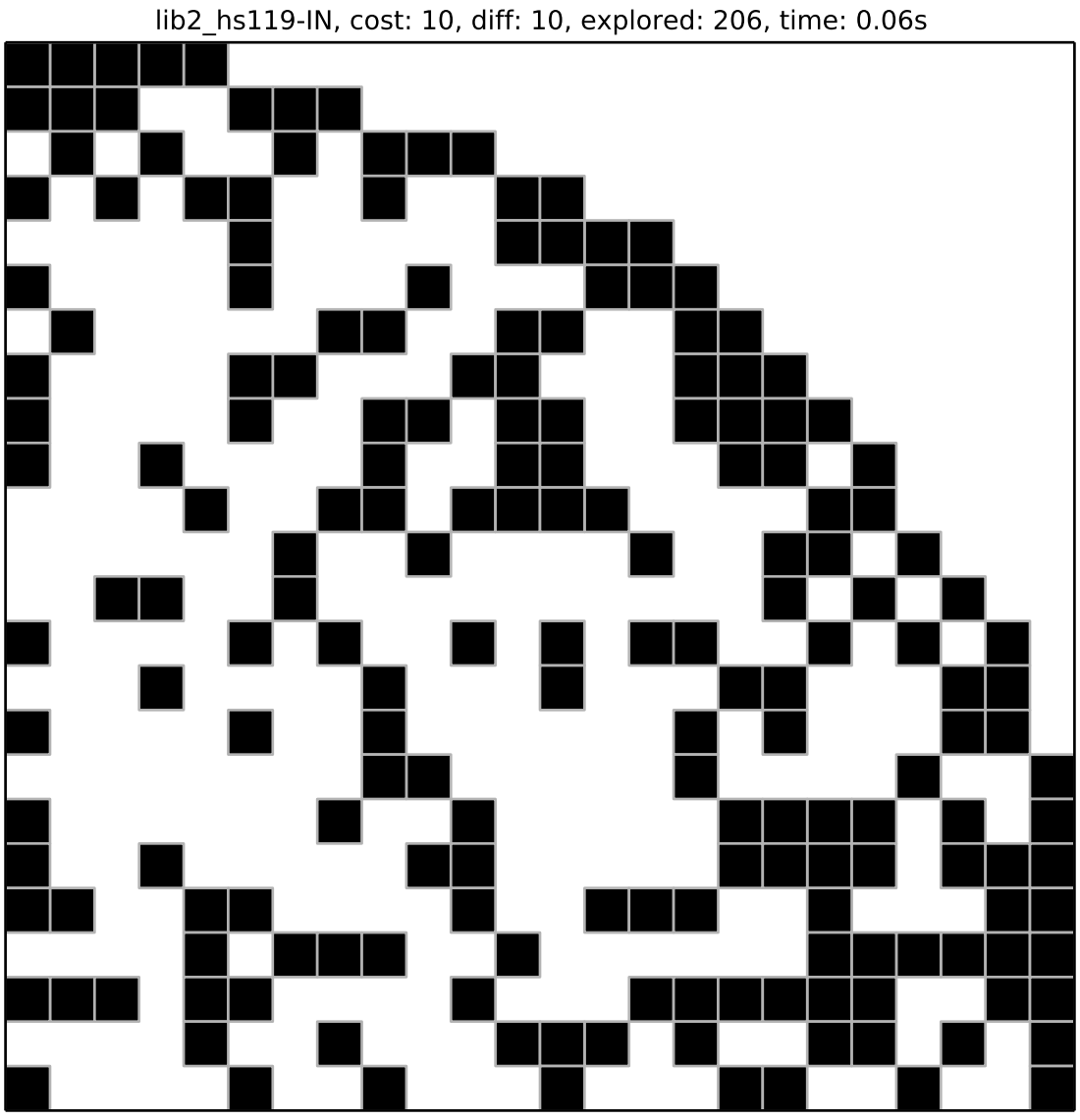
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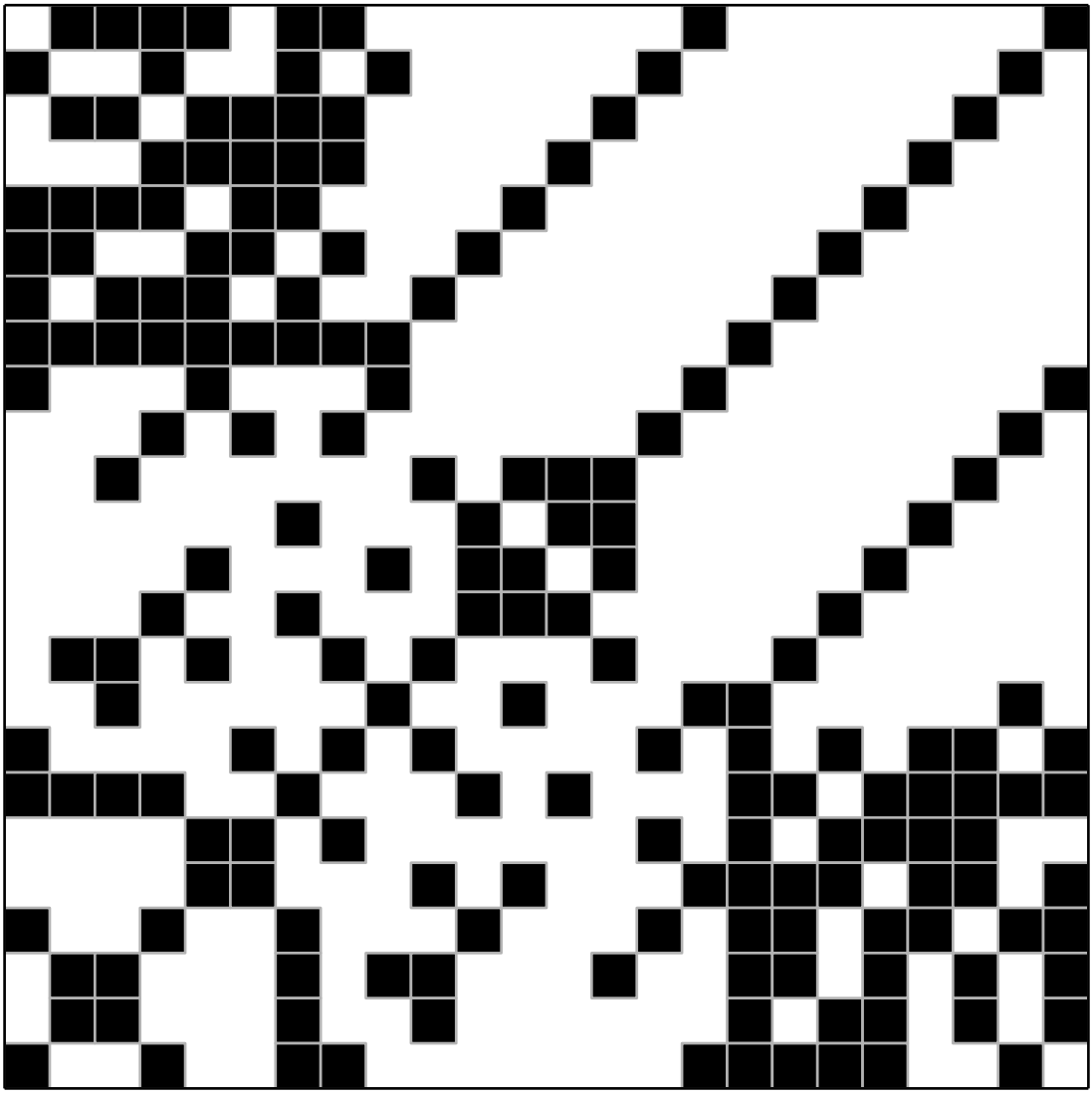
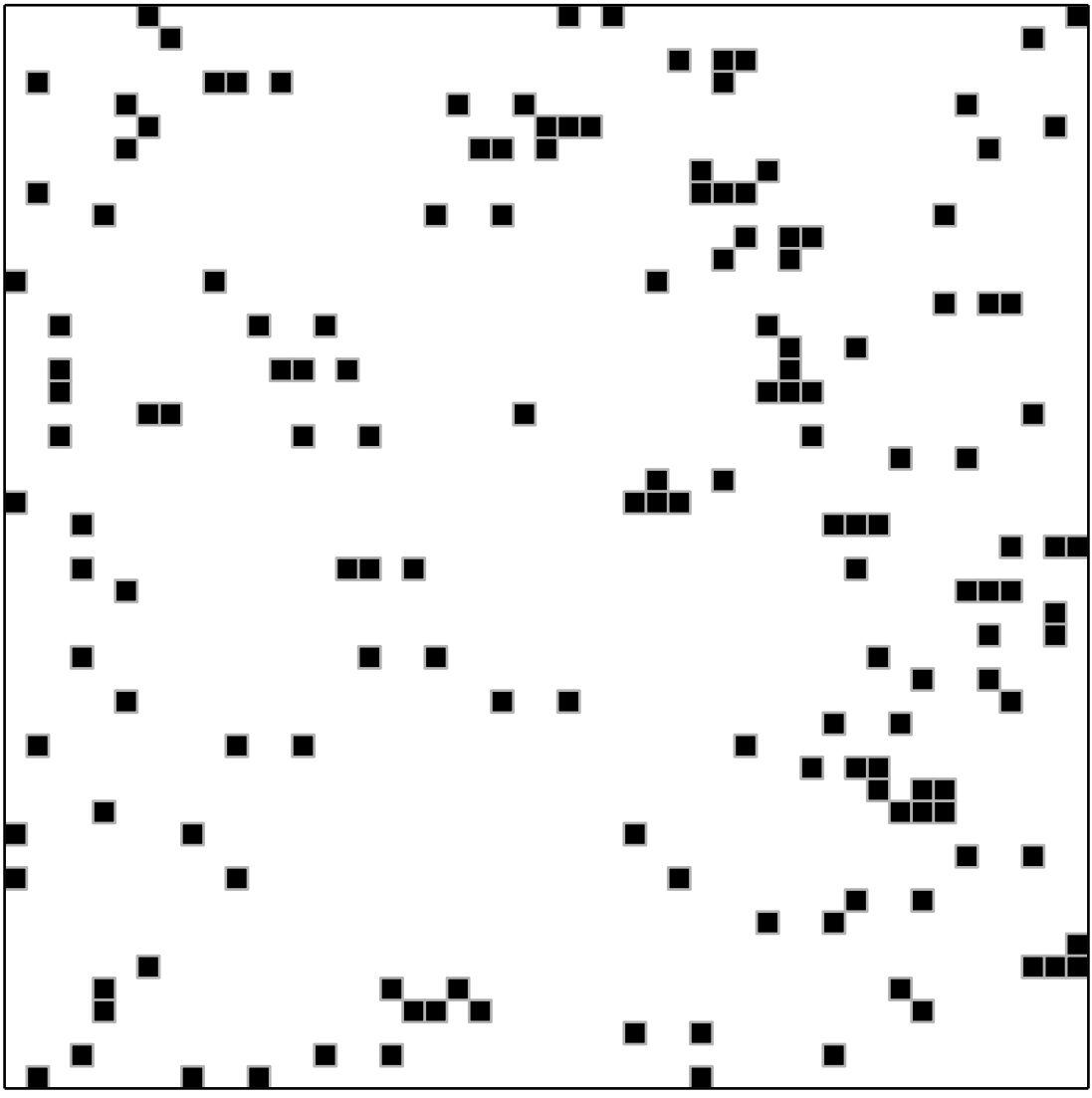
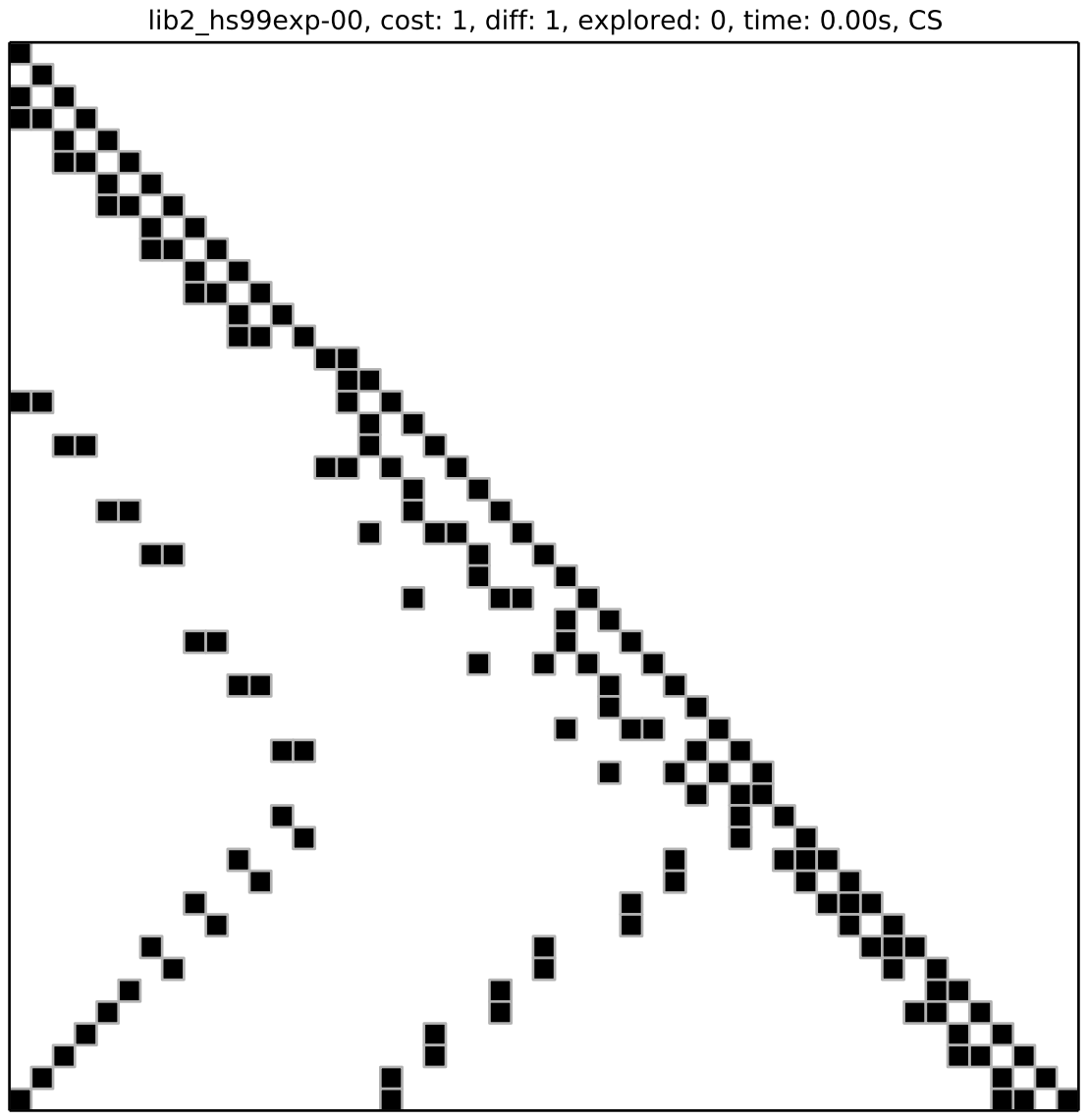
lib2_hs119-RE 24x24 (192) con: 8, var: 16



lib2_hs119-RE, cost: 10, diff: 10, explored: 206, time: 0.06s

lib2_hs99exp-00 49x49 (161) con: 21, var: 28

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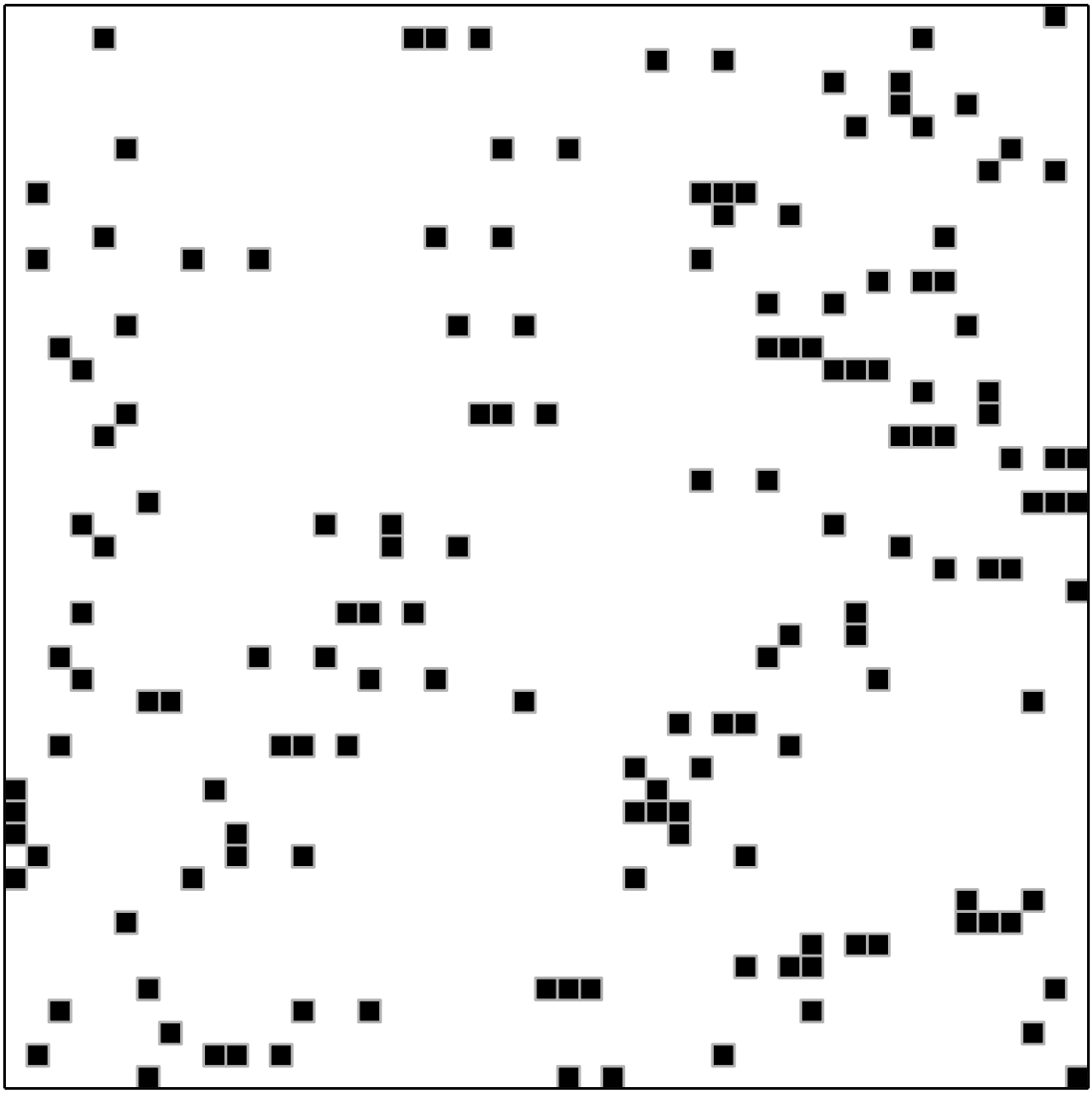
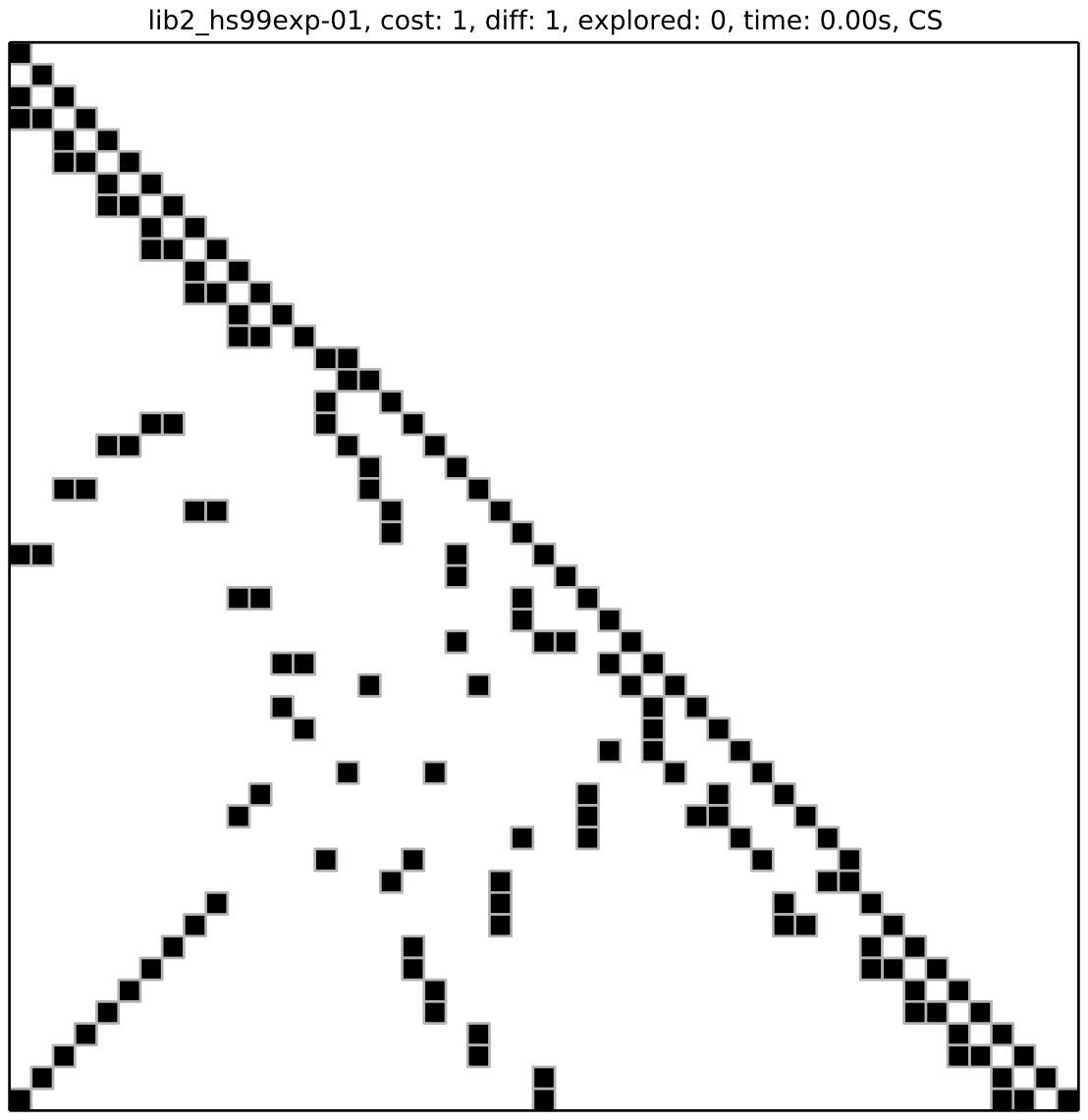
lib2_hs99exp-01 49x49 (161) con: 21, var: 28

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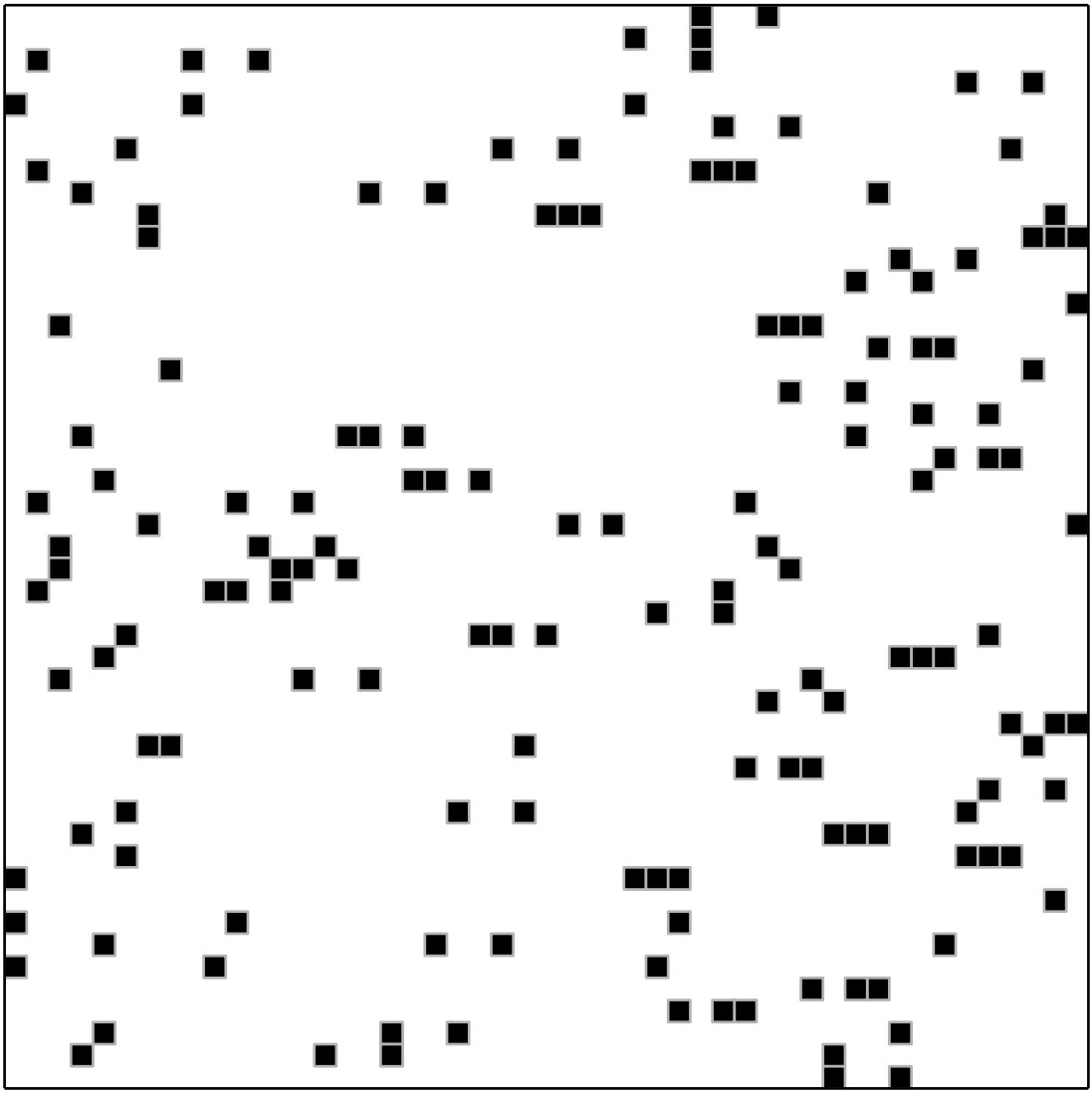
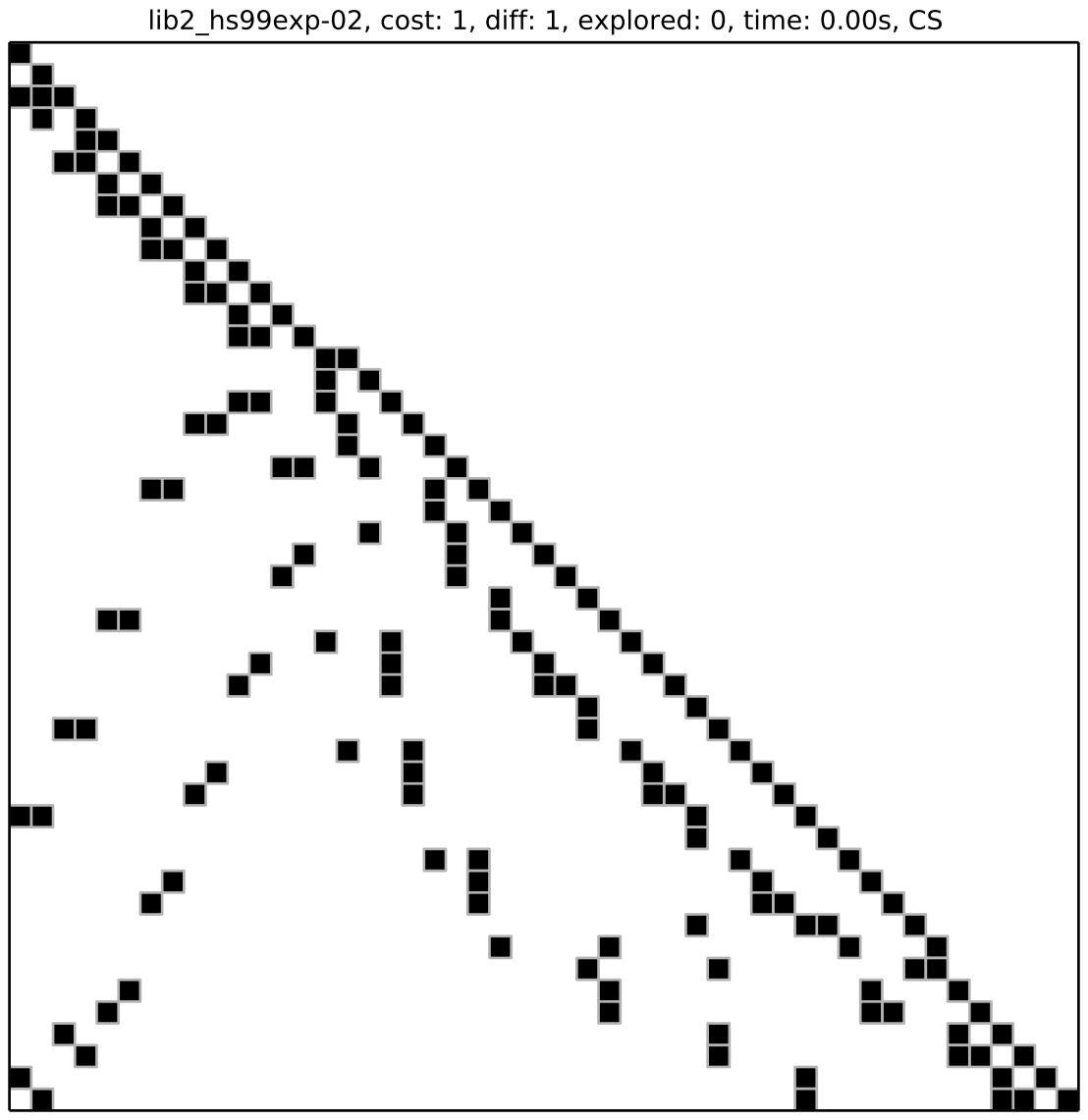
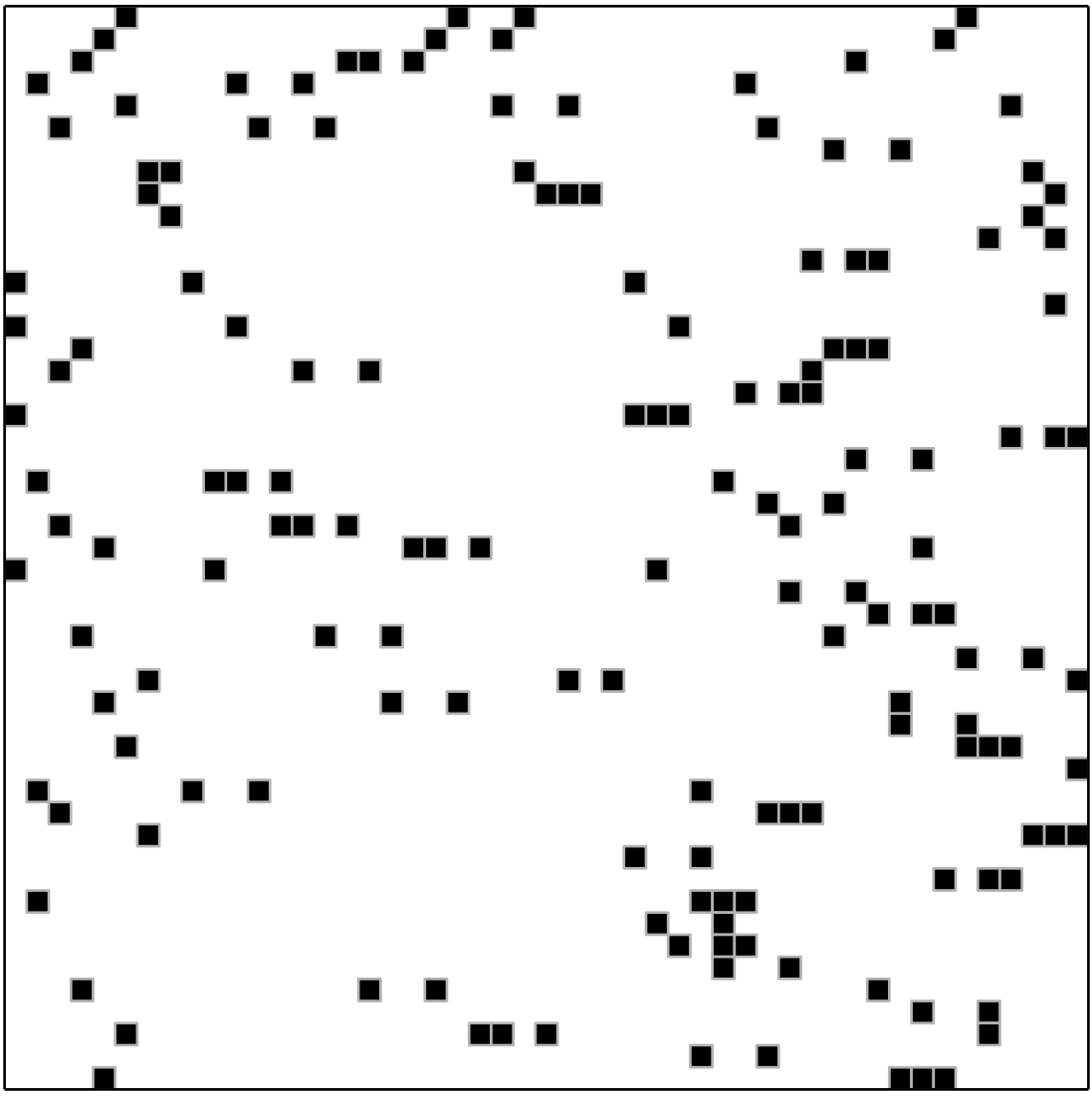
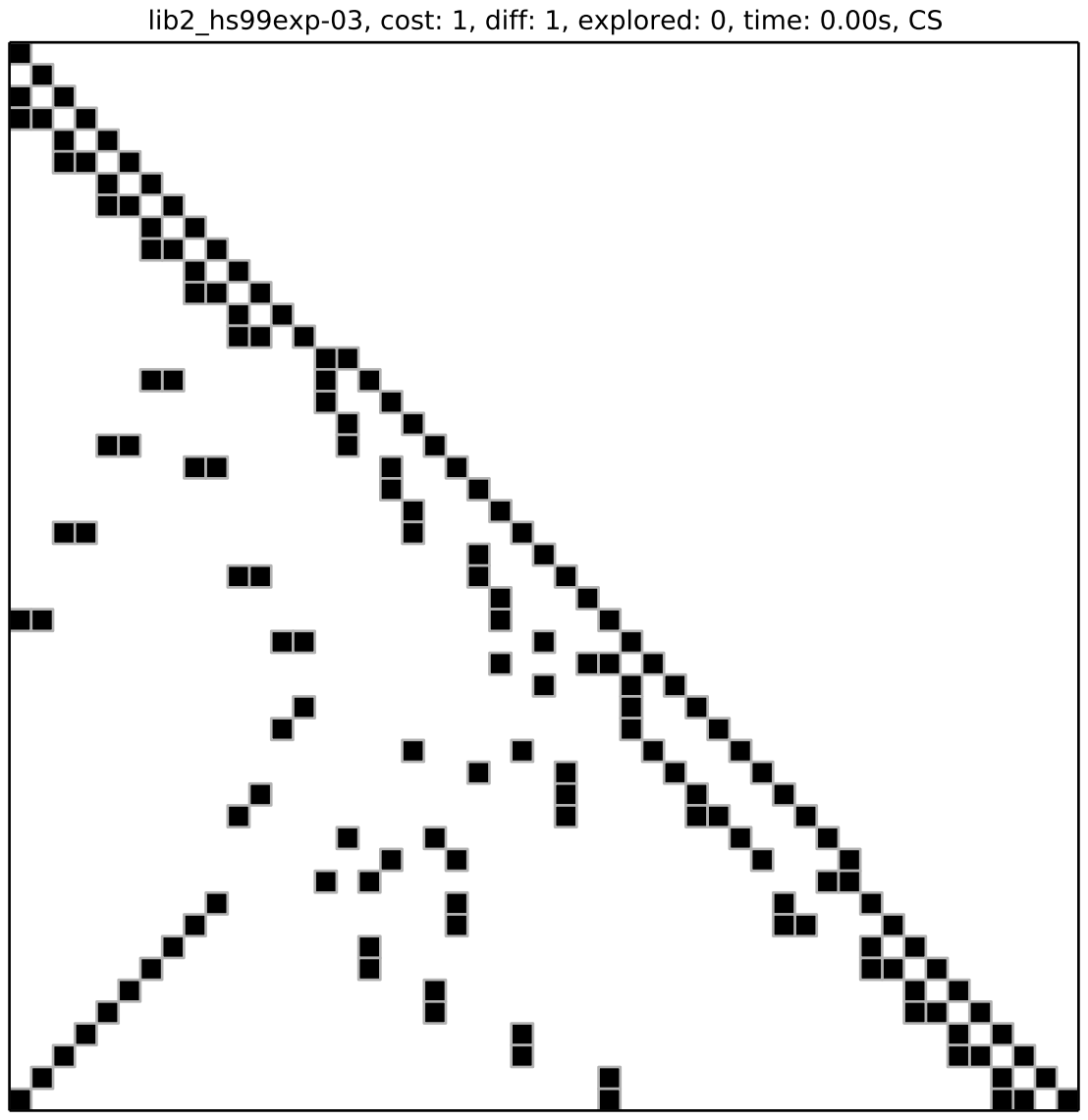
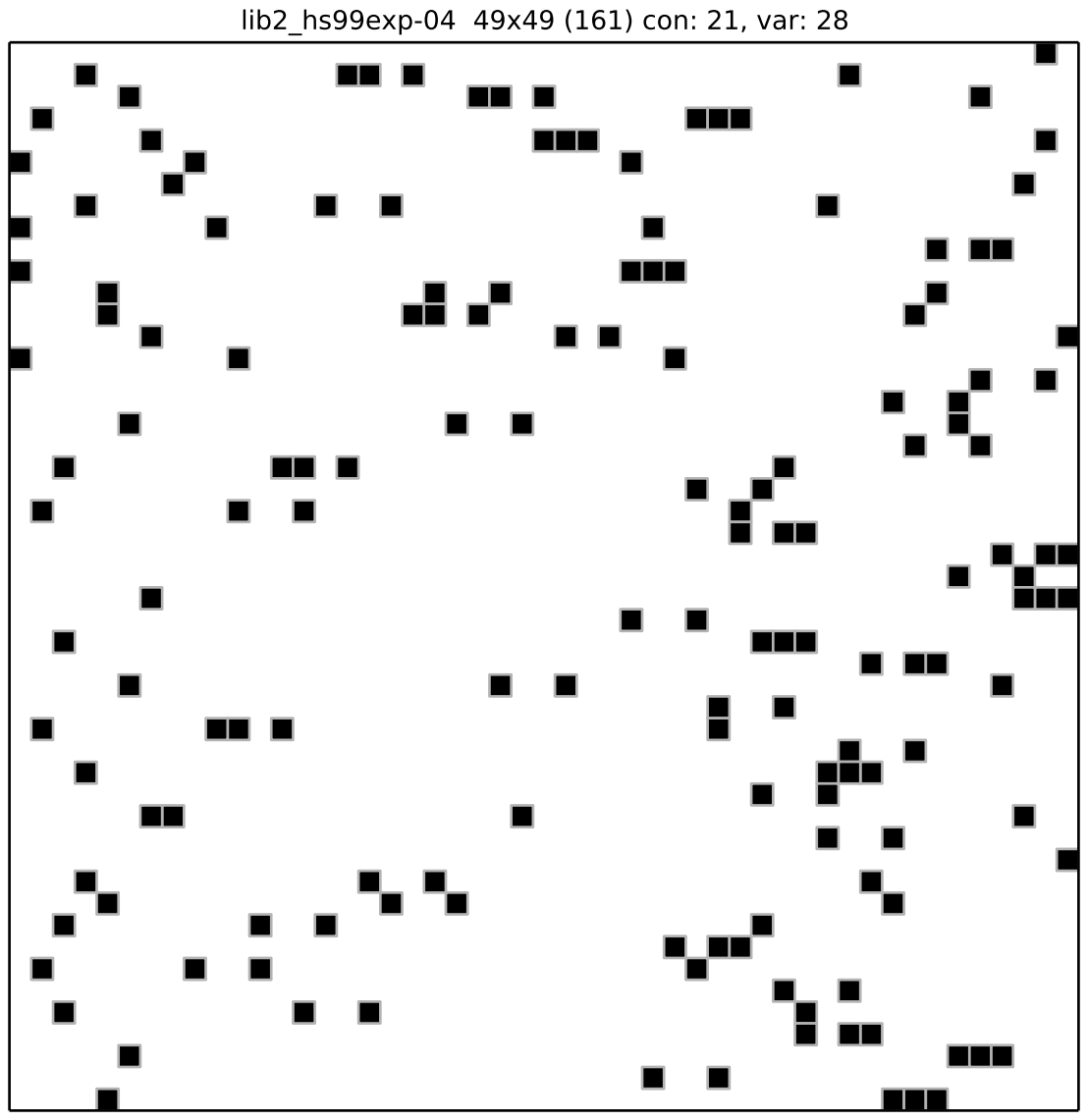
lib2_hs99exp-02 49x49 (161) con: 21, var: 28

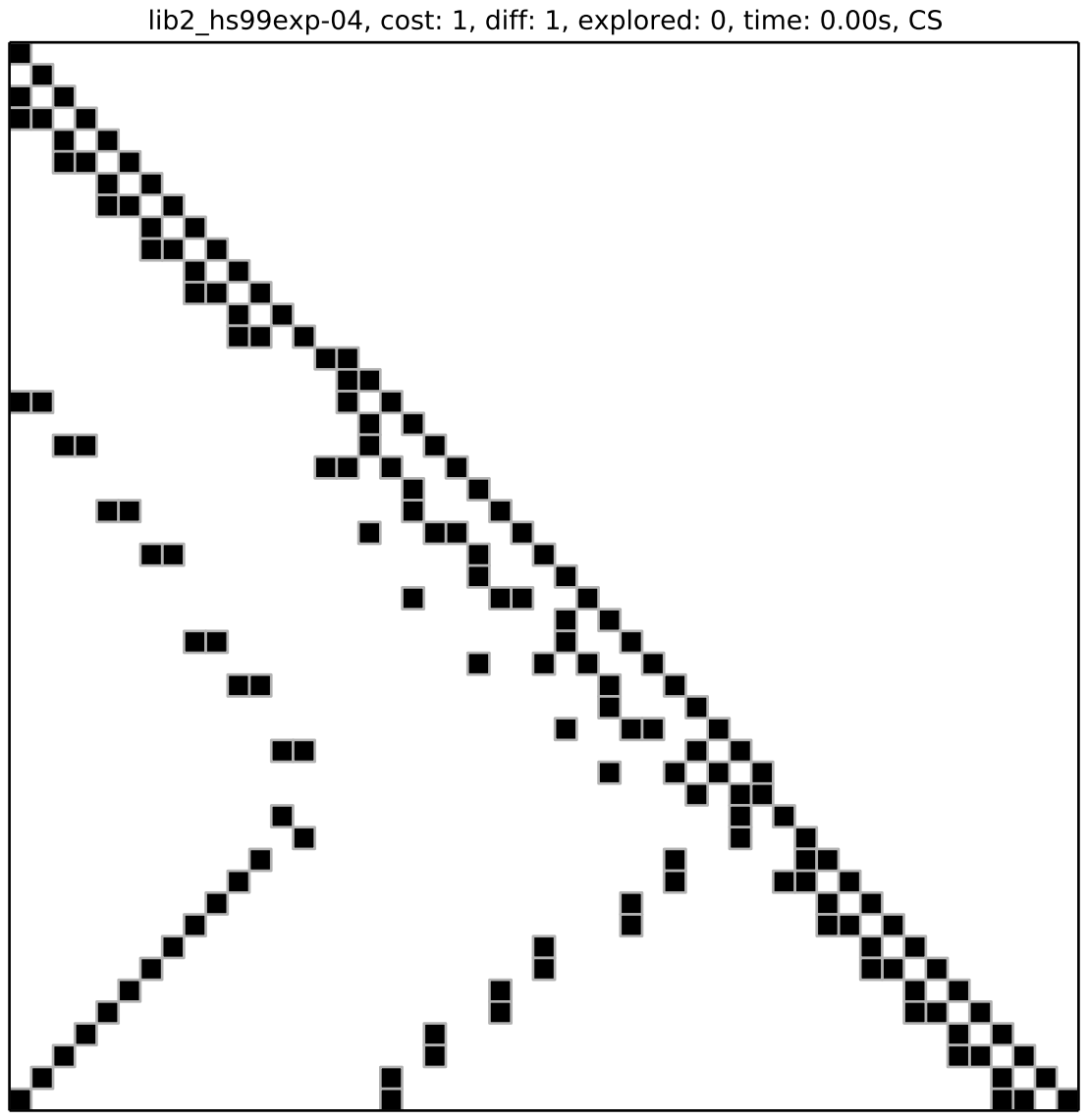



lib2_hs99exp-02, cost: 1, diff: 1, explored: 0, time: 0.00s, CS

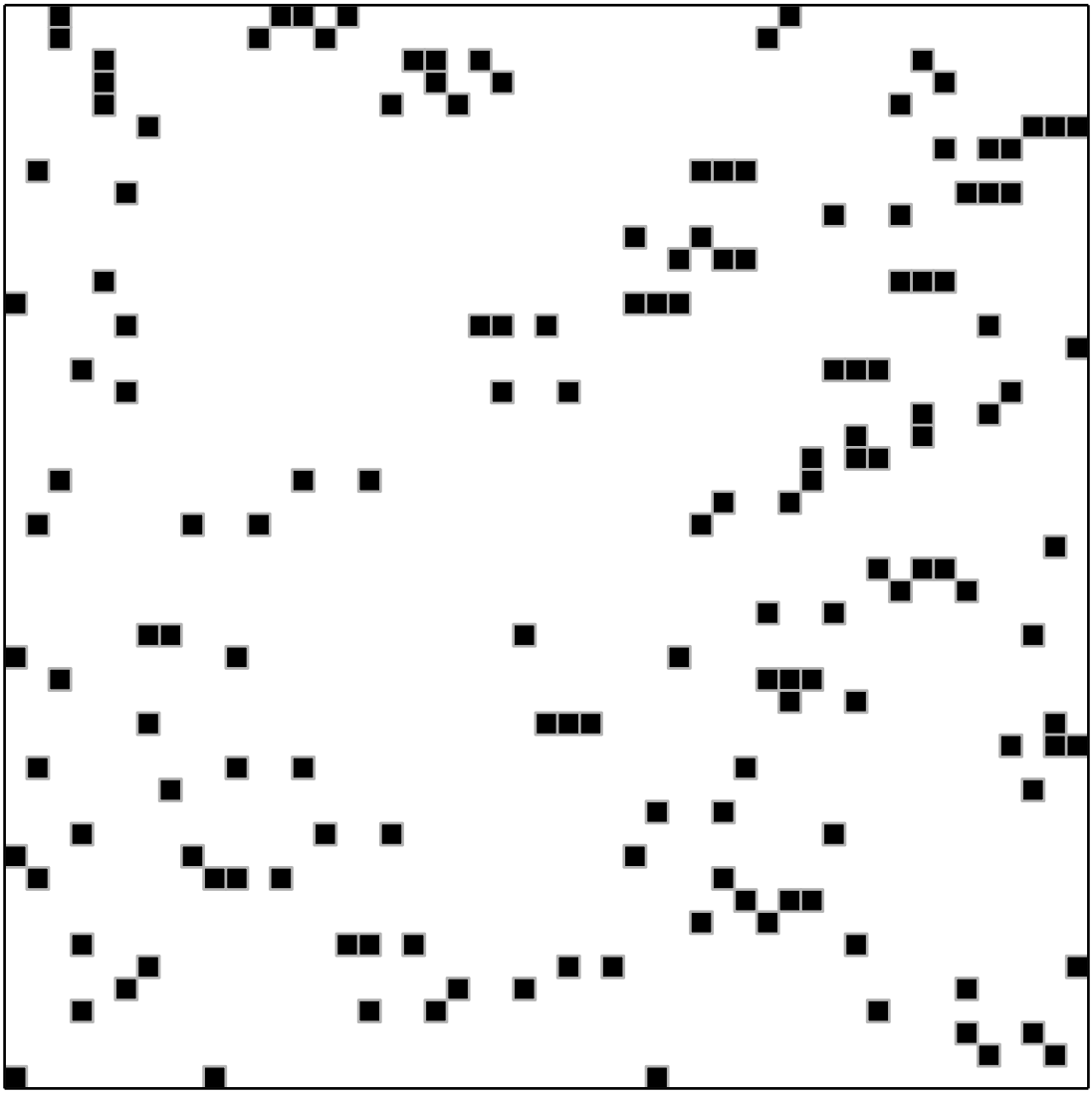

lib2_hs99exp-03 49x49 (161) con: 21, var: 28

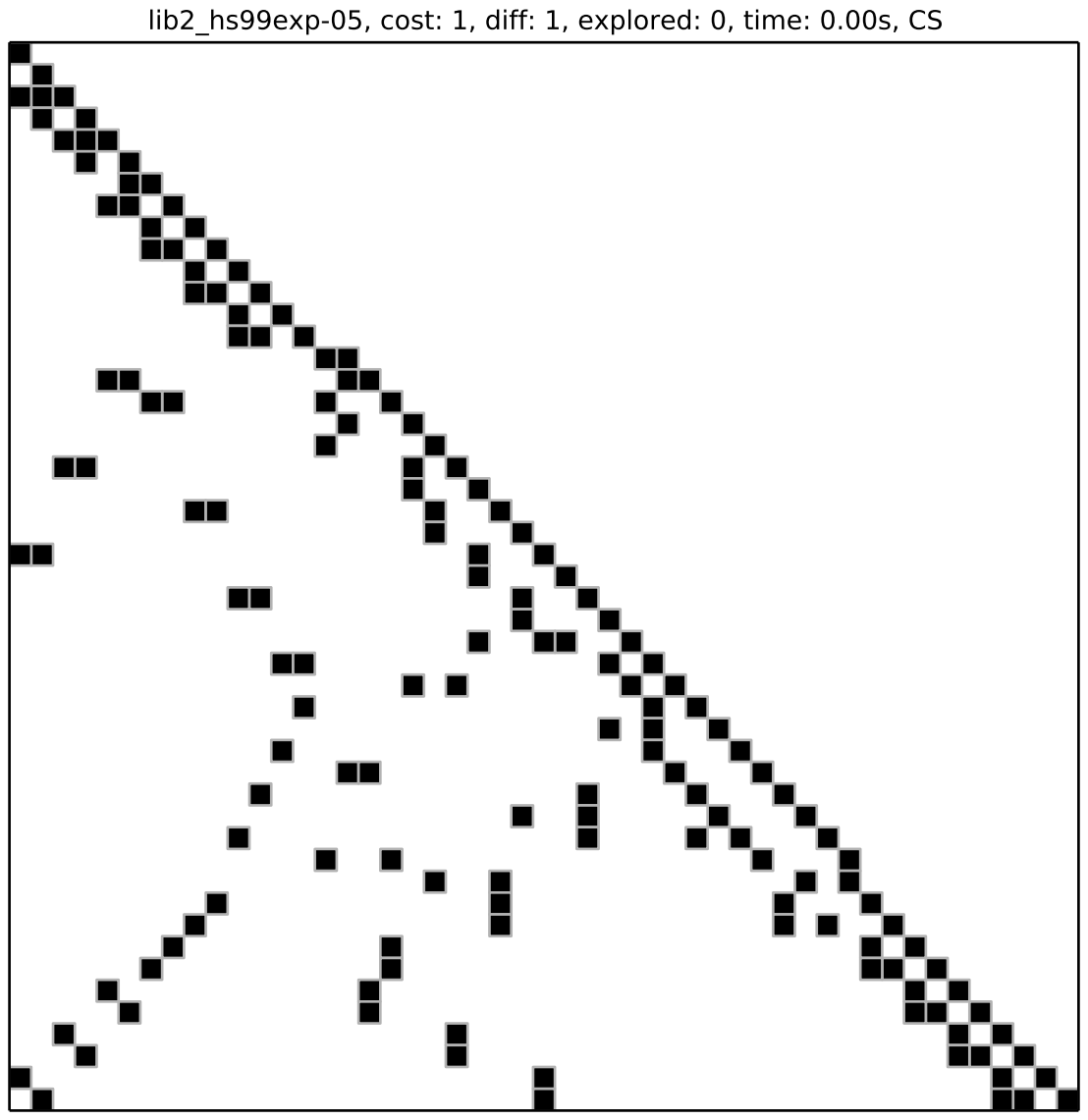

lib2_hs99exp-03, cost: 1, diff: 1, explored: 0, time: 0.00s, CS


lib2_hs99exp-04 49x49 (161) con: 21, var: 28


lib2_hs99exp-04, cost: 1, diff: 1, explored: 0, time: 0.00s, CS

lib2_hs99exp-05 49x49 (161) con: 21, var: 28

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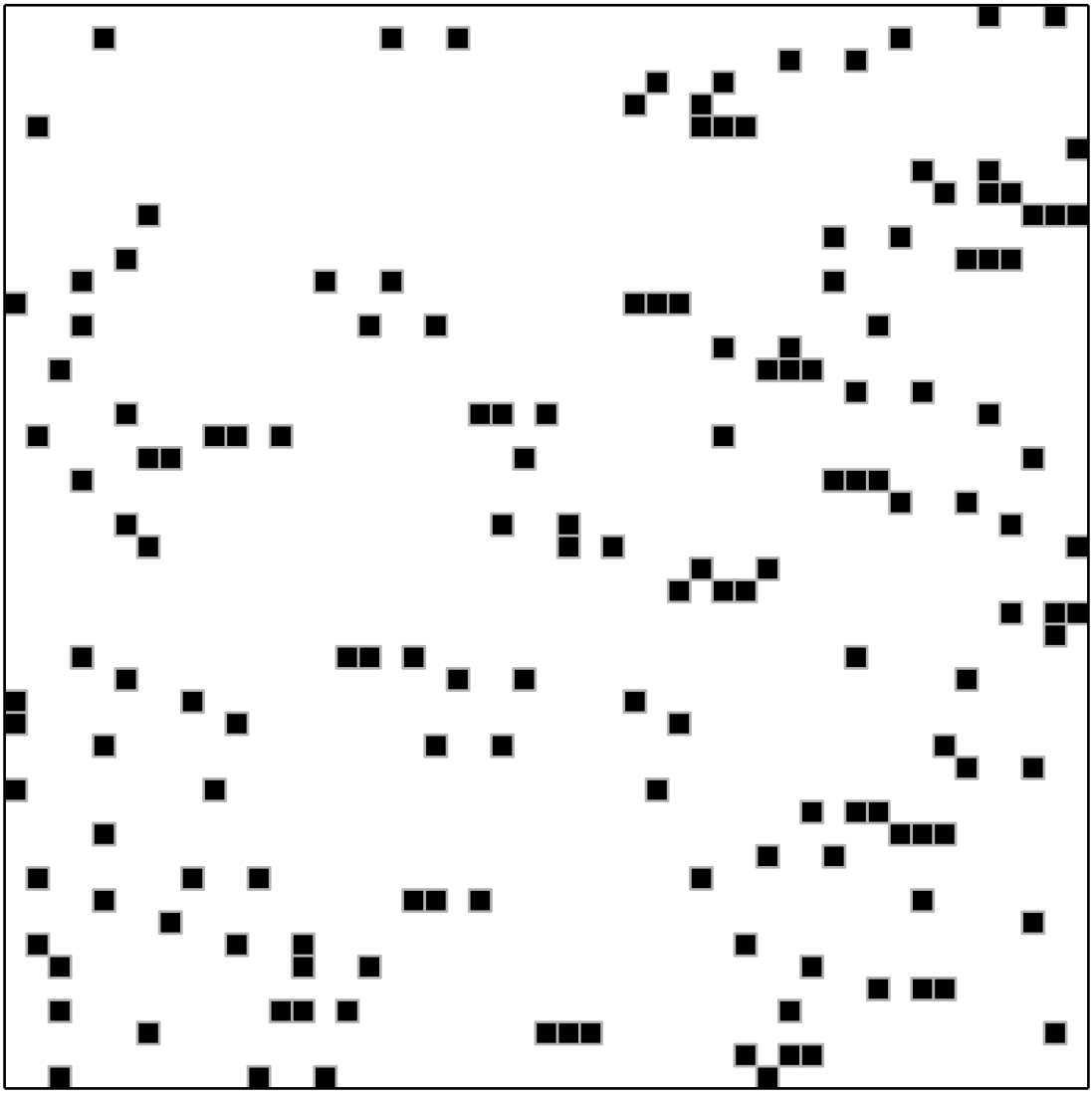
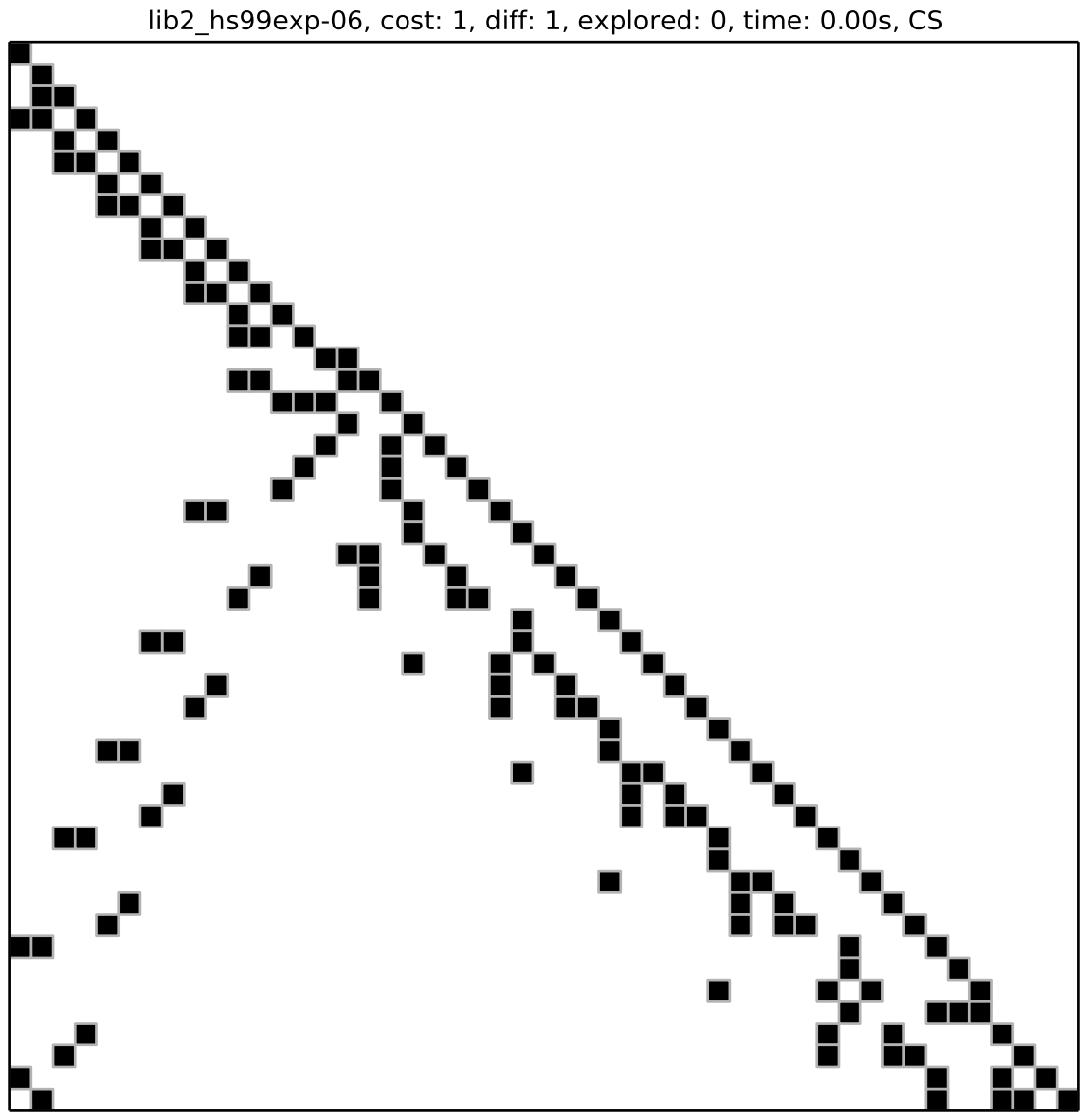
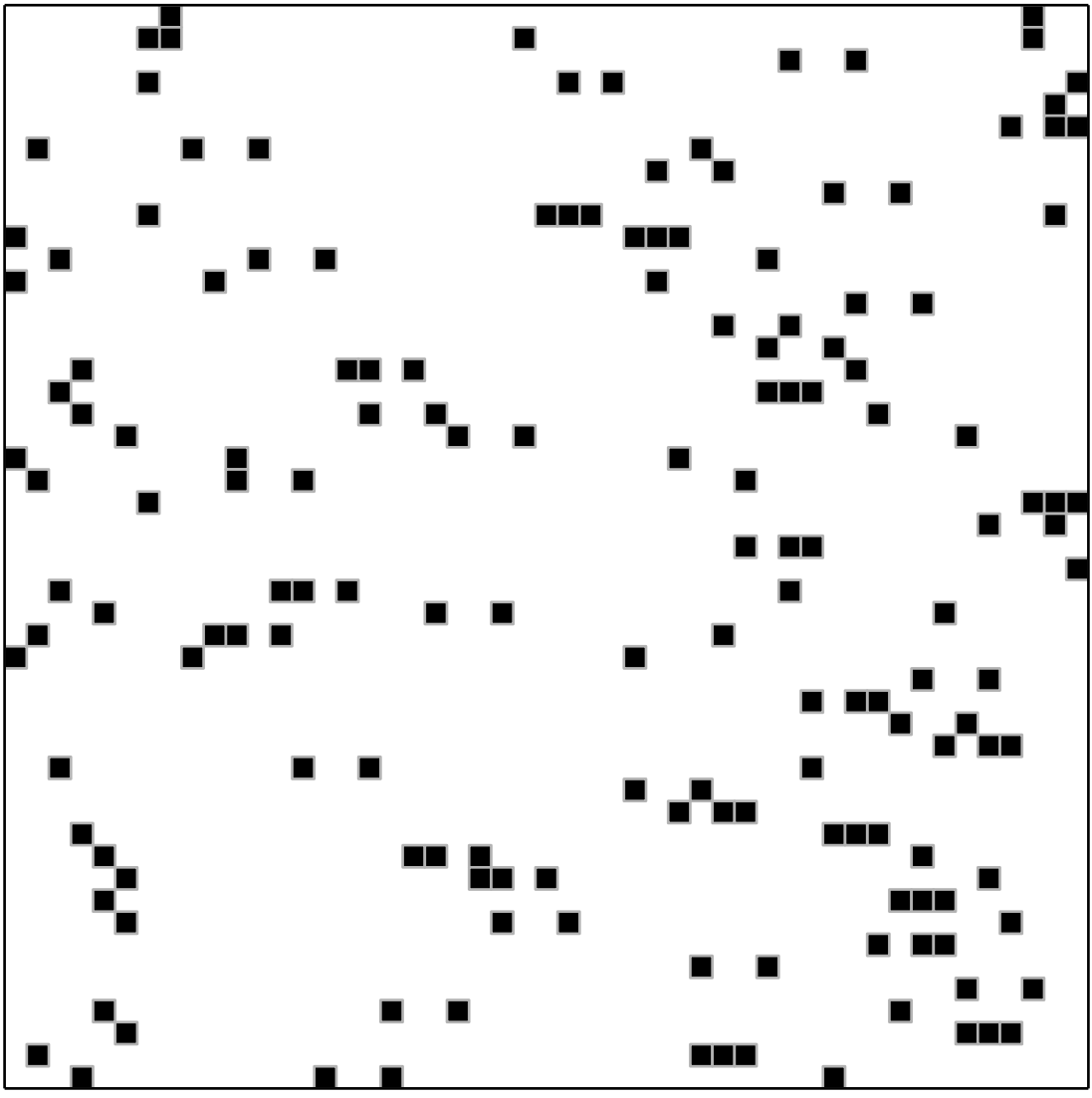
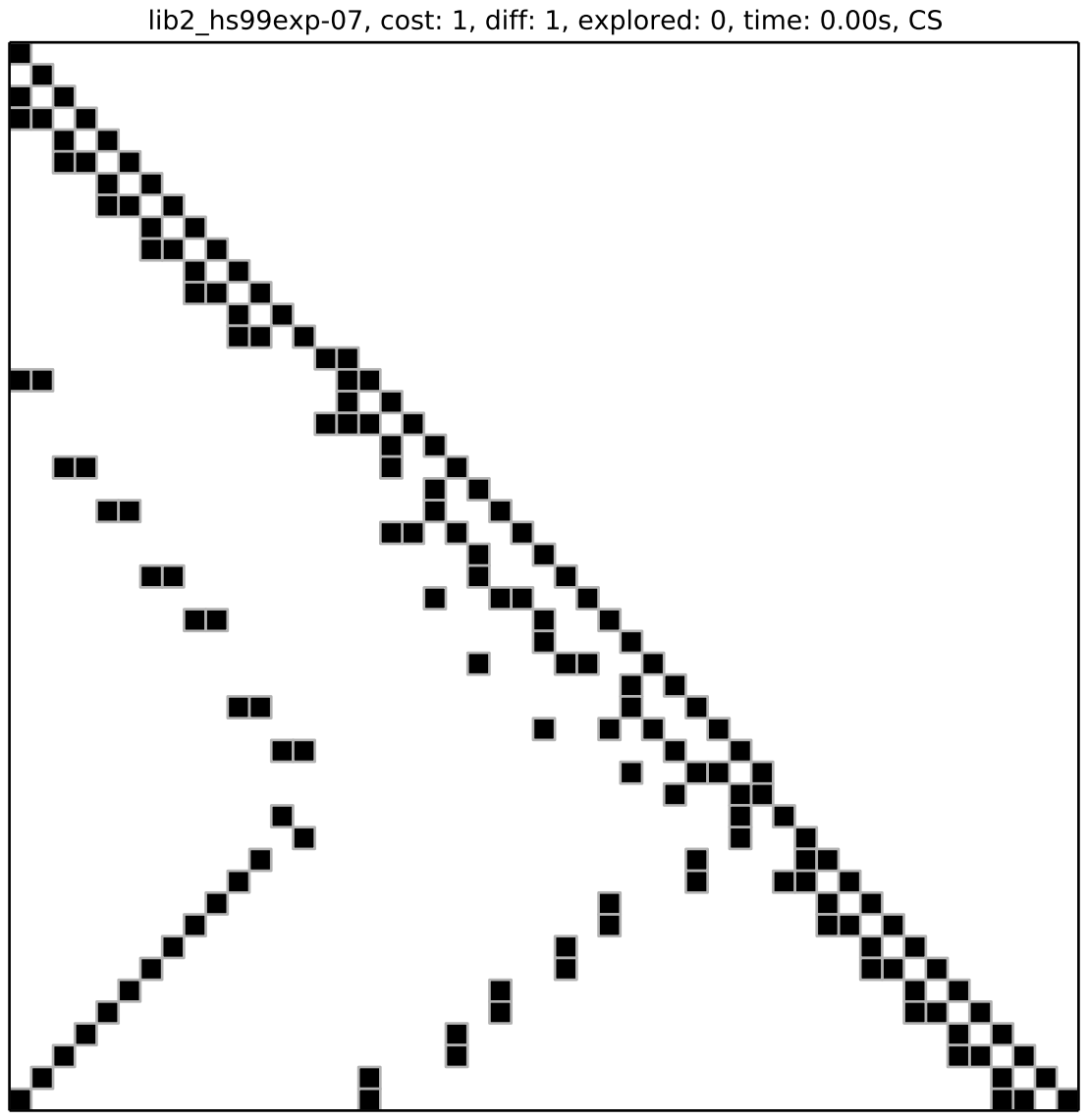
lib2_hs99exp-06 49x49 (161) con: 21, var: 28




lib2_hs99exp-06, cost: 1, diff: 1, explored: 0, time: 0.00s, CS

lib2_hs99exp-07 49x49 (161) con: 21, var: 28

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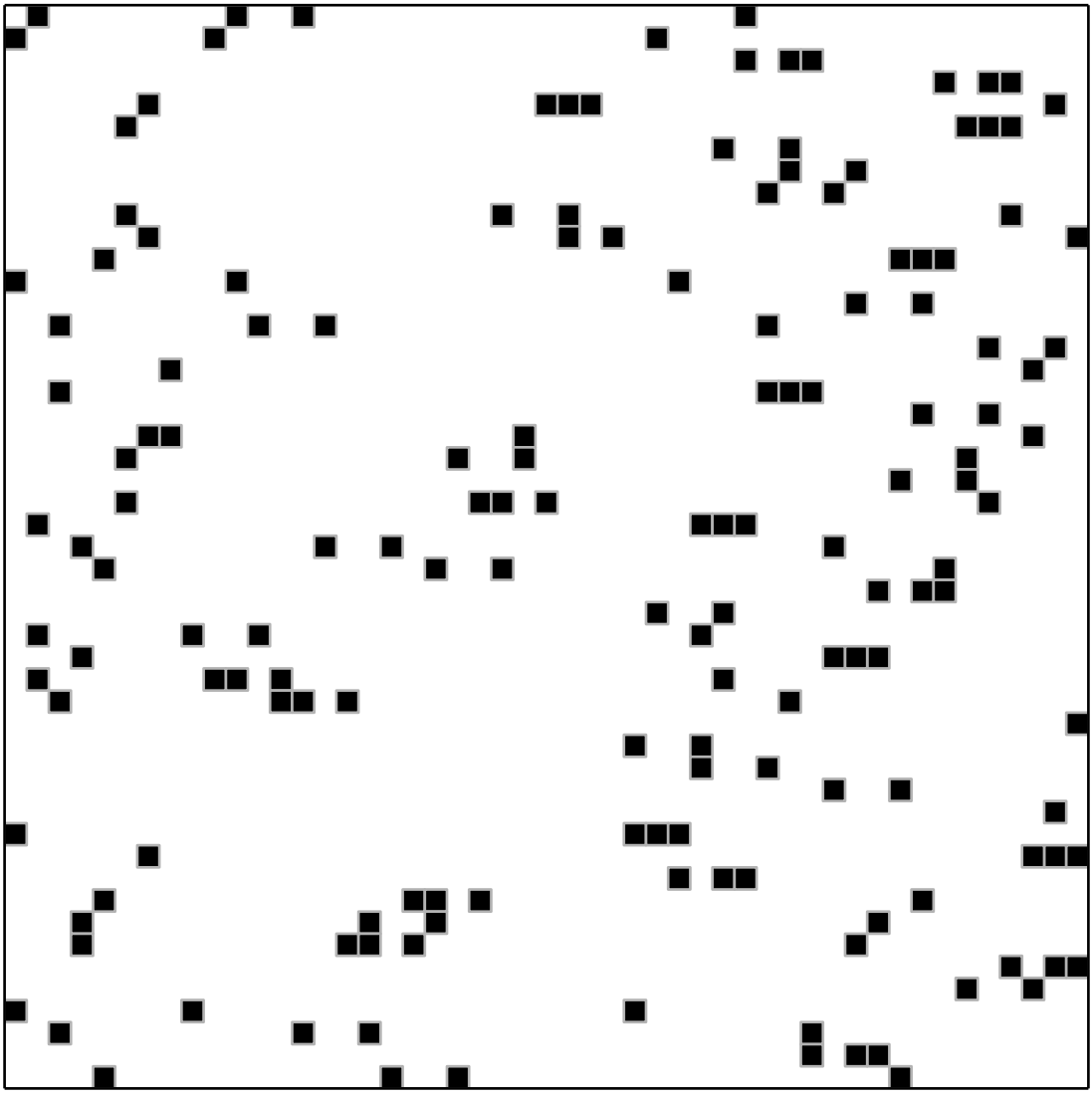
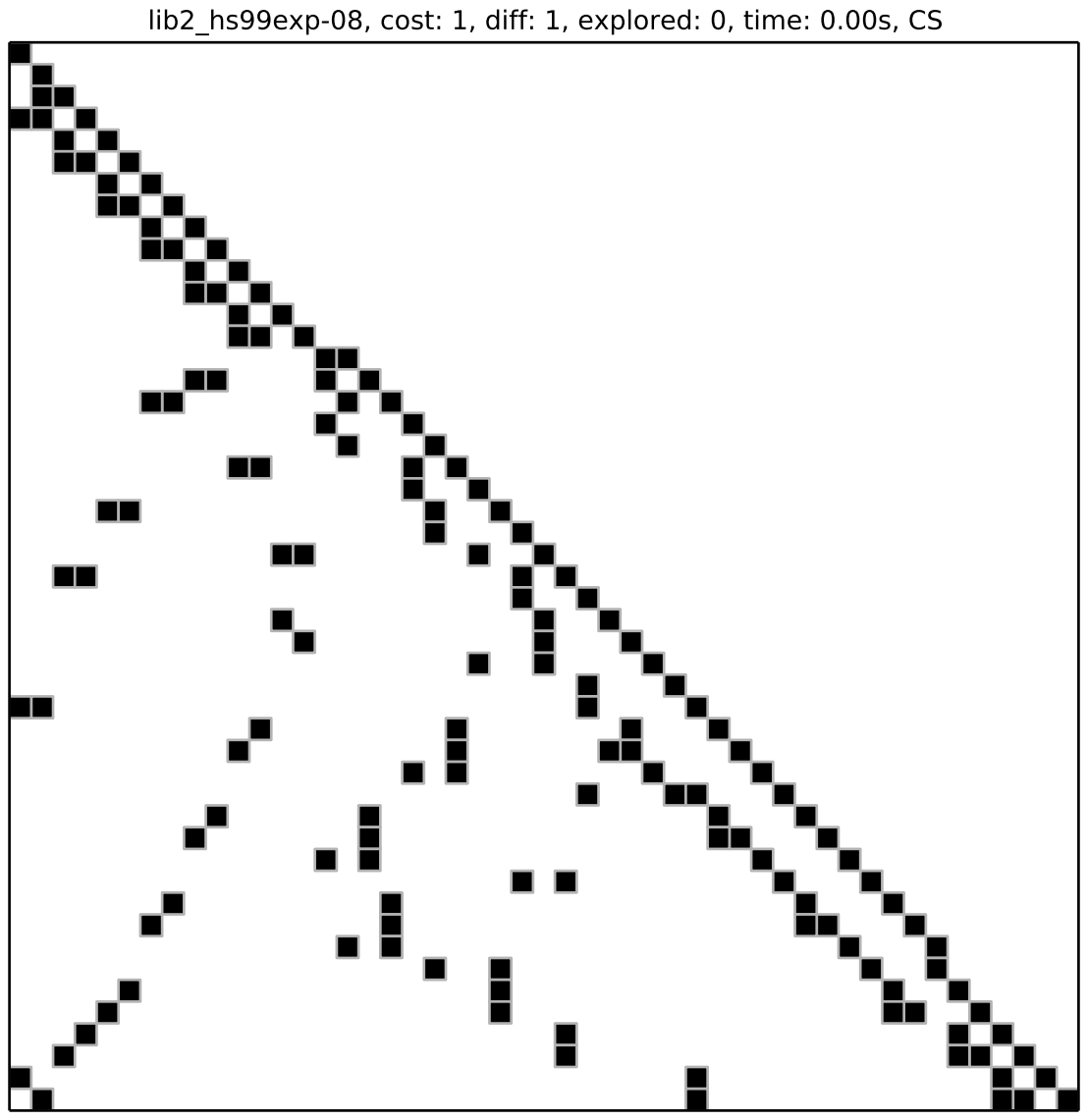
lib2_hs99exp-08 49x49 (161) con: 21, var: 28

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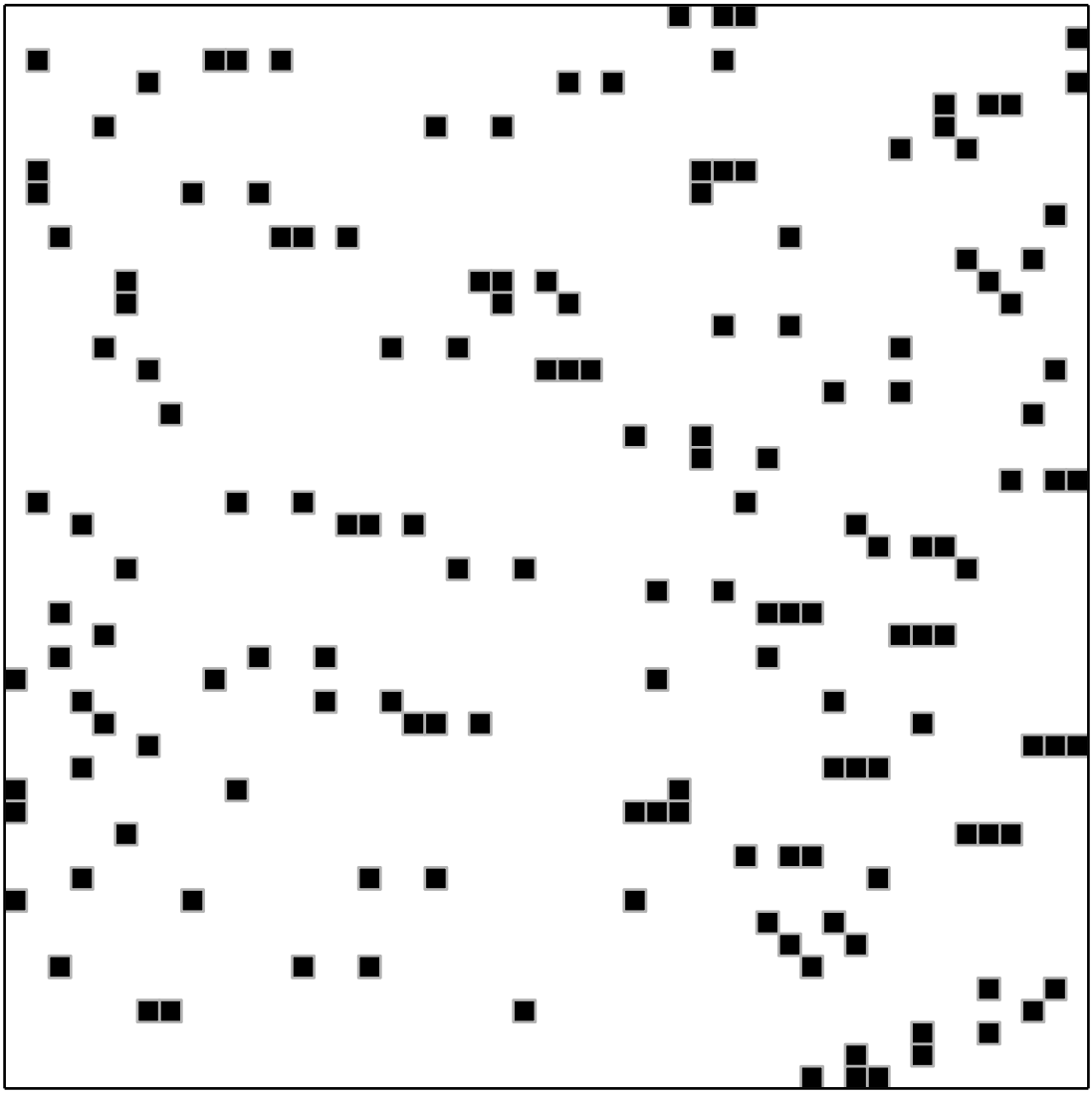
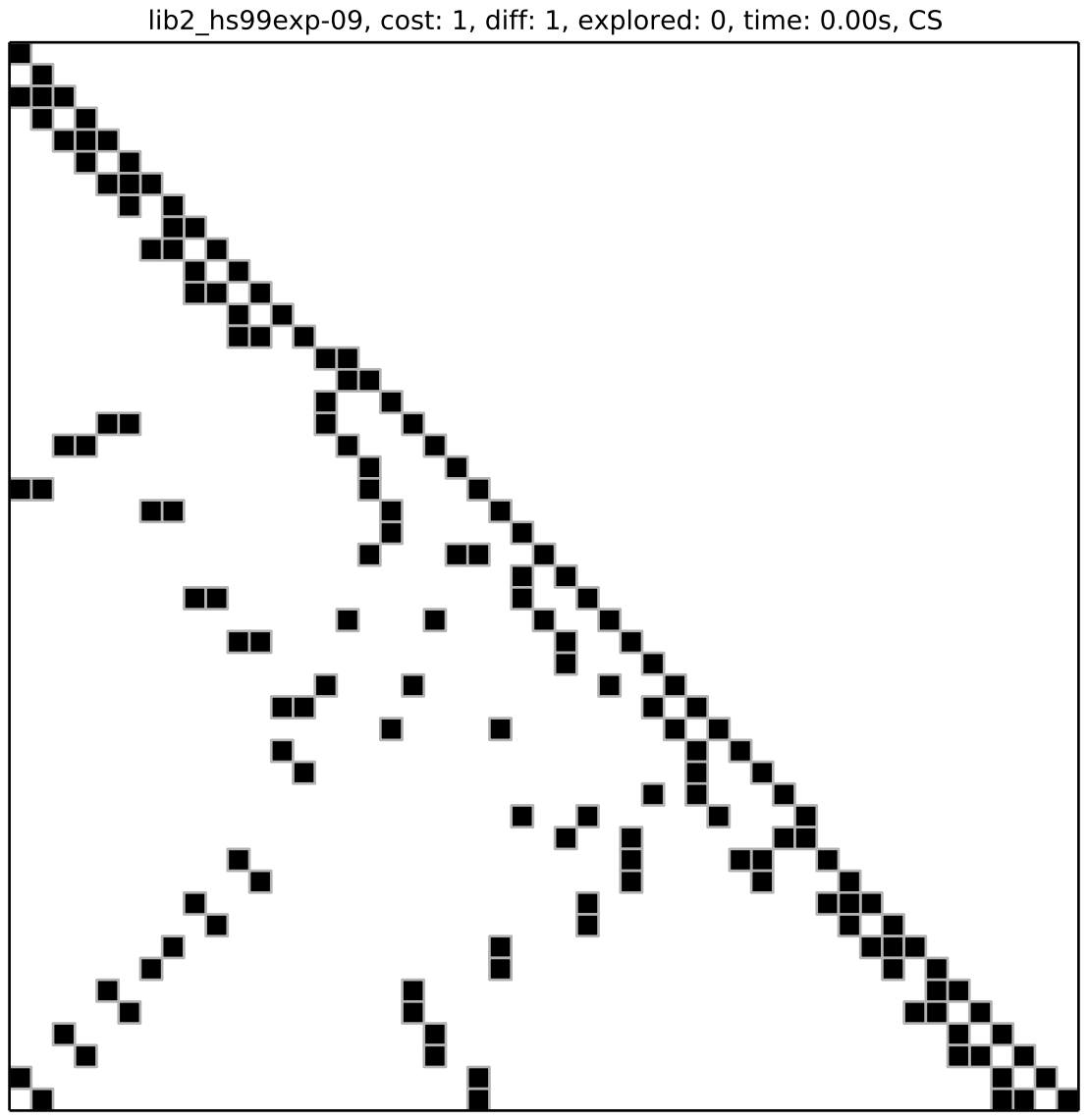
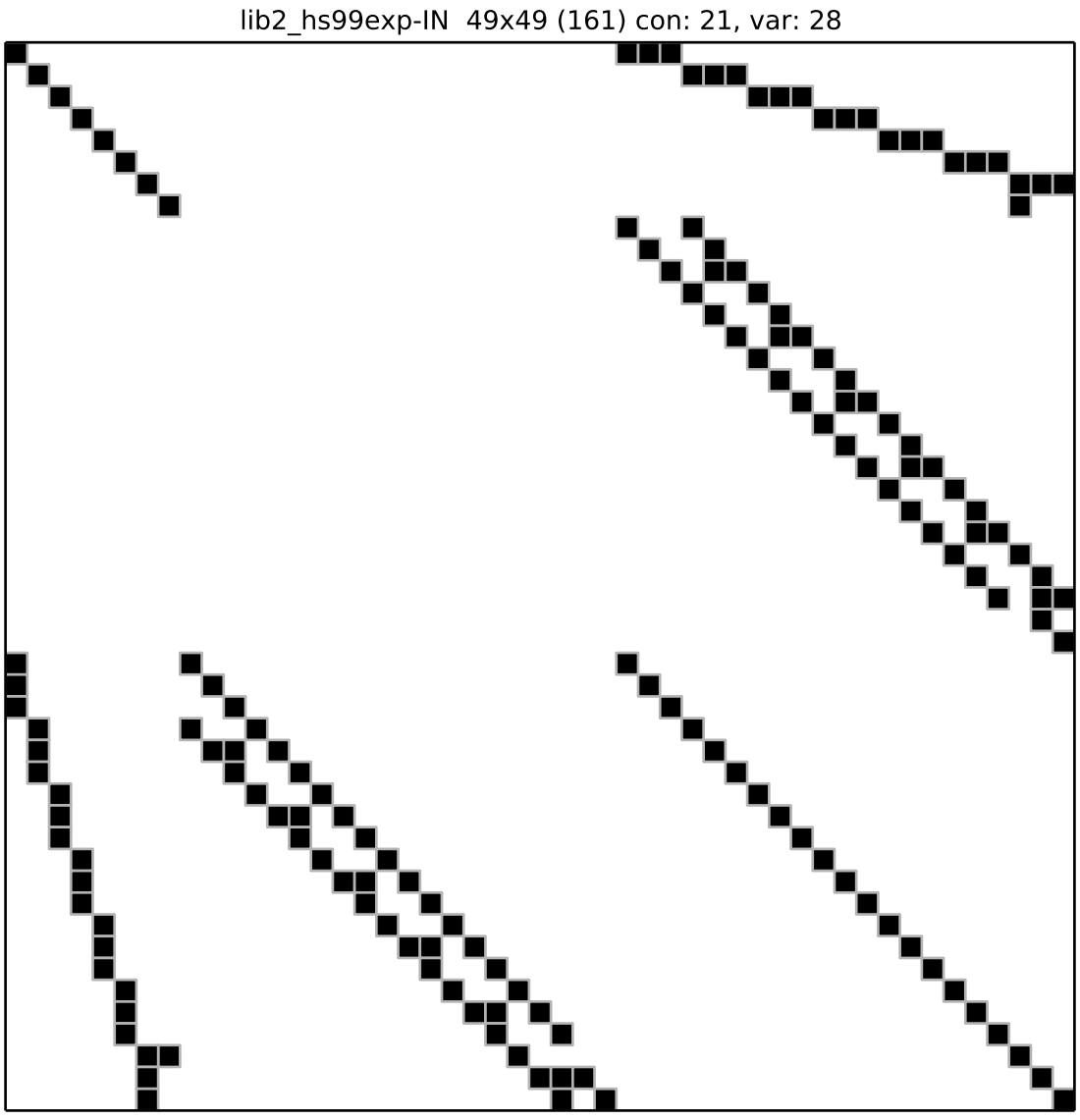
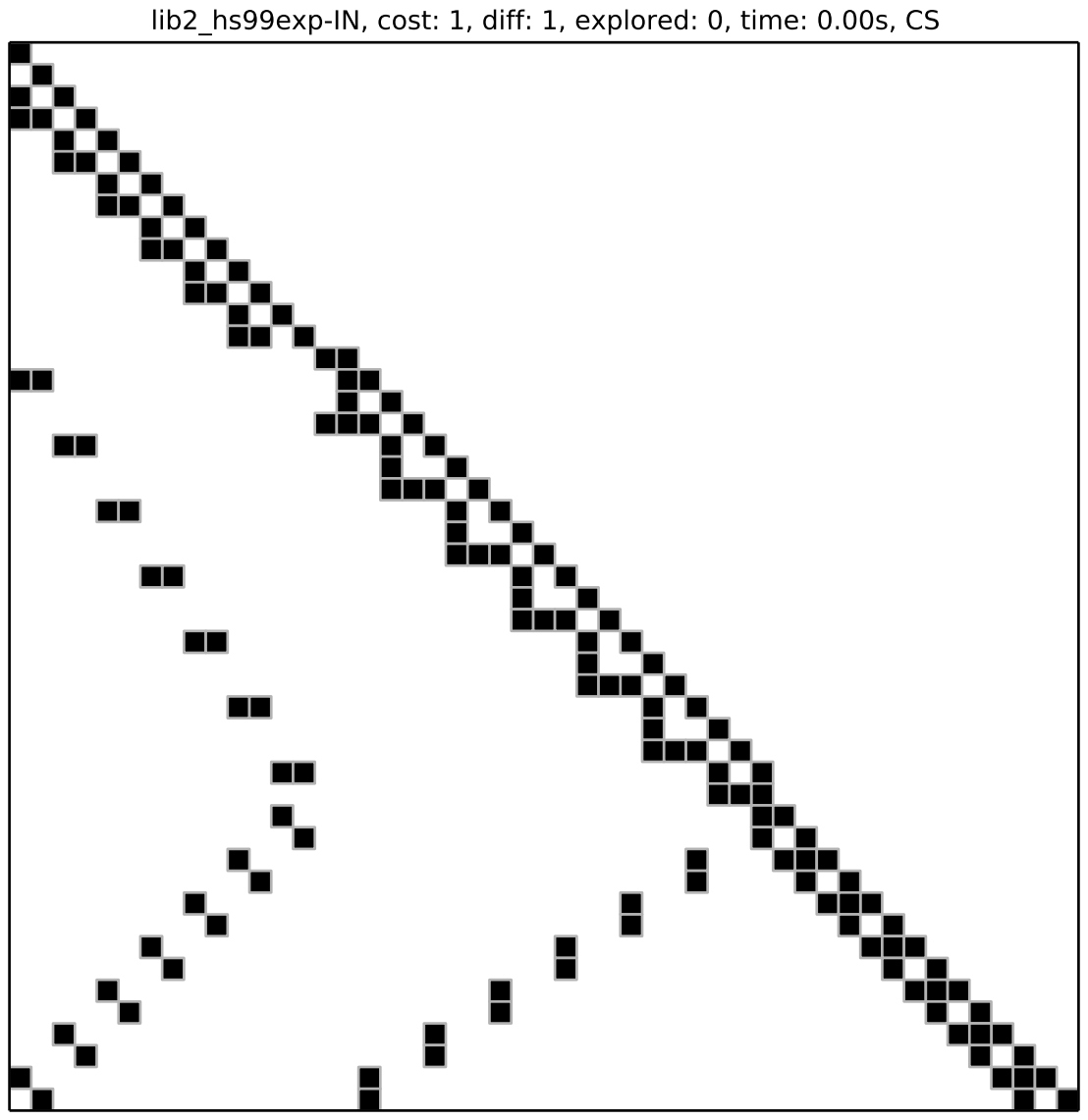
lib2_hs99exp-09 49x49 (161) con: 21, var: 28

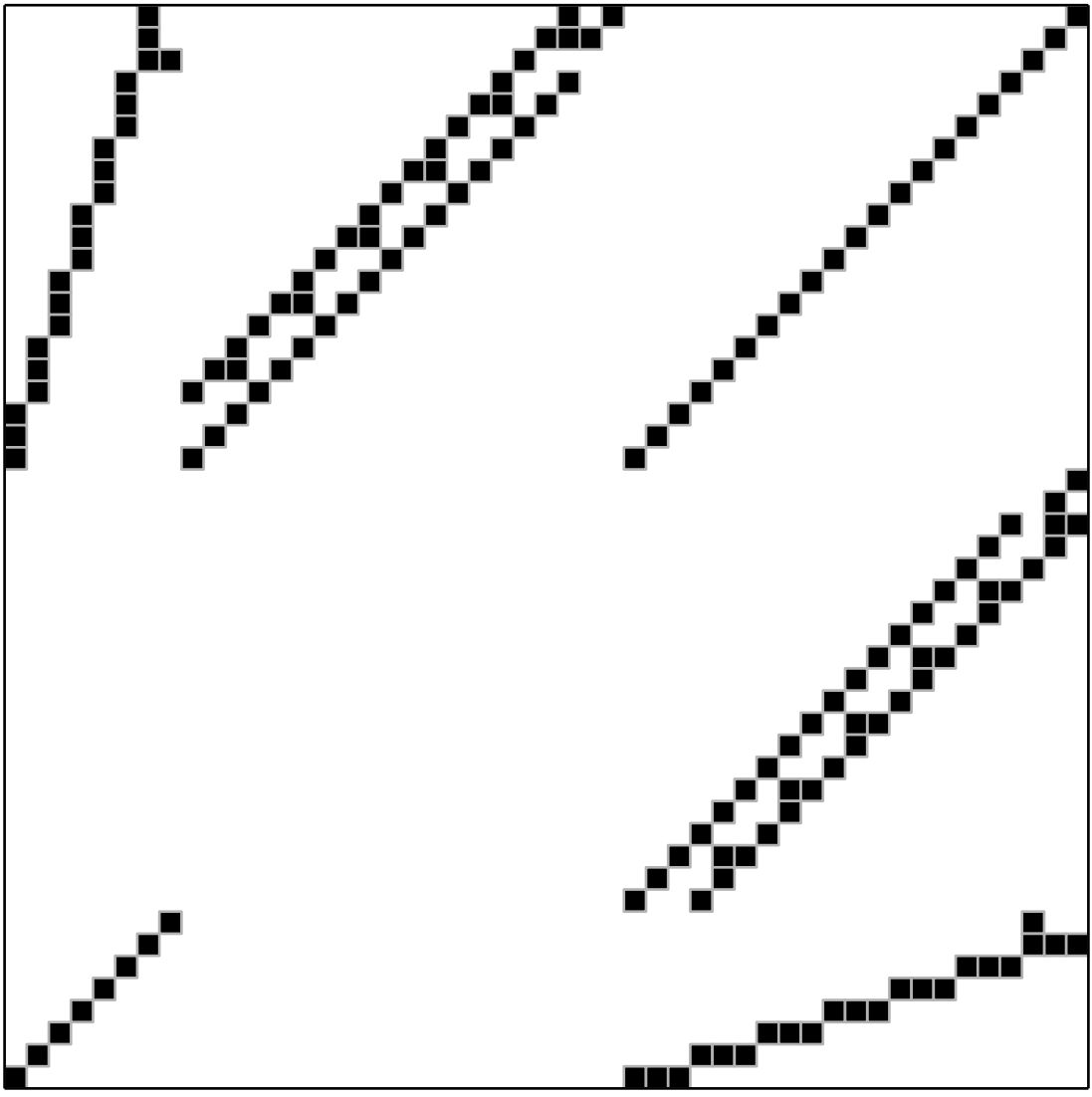


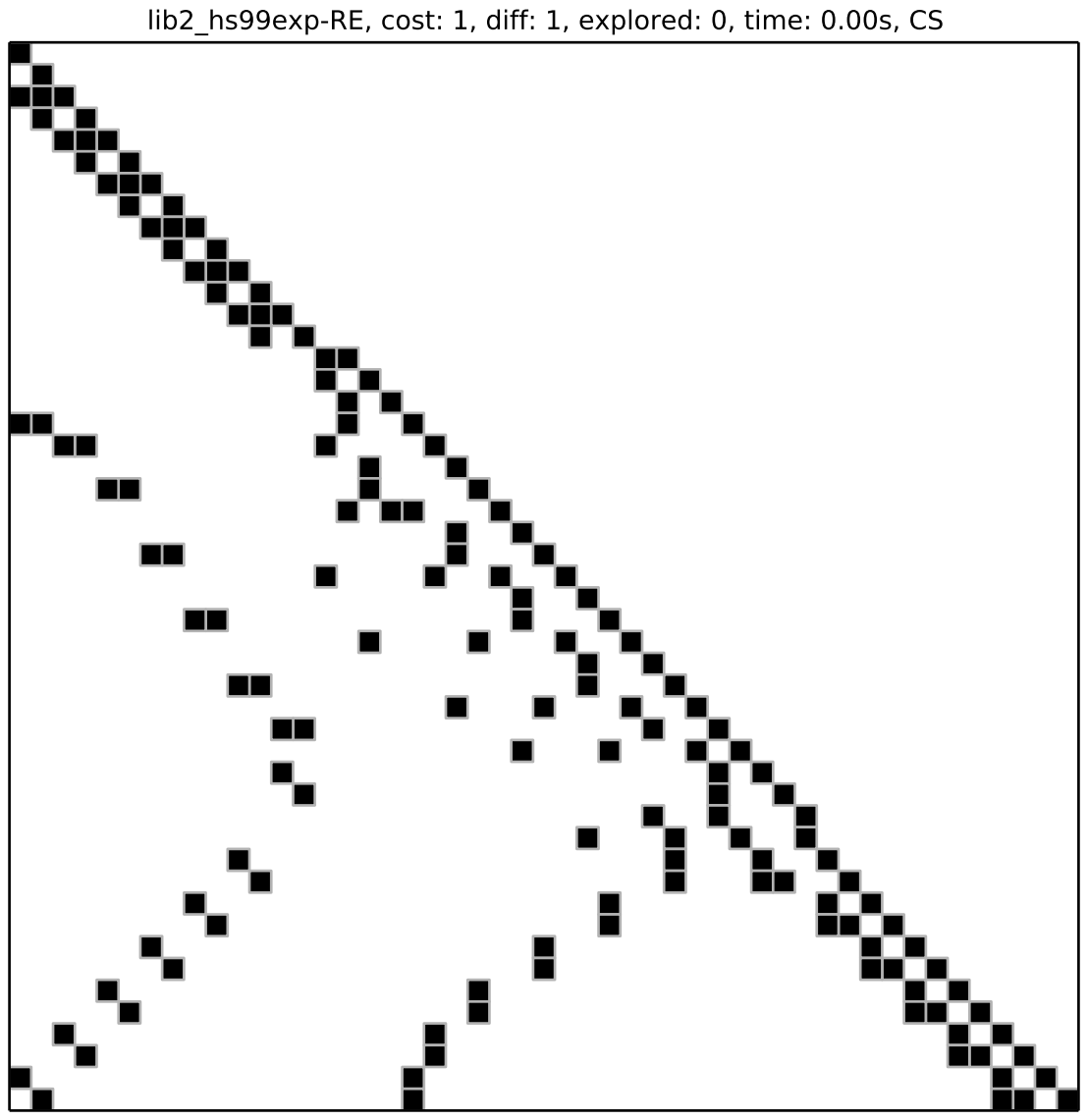

lib2_hs99exp-09, cost: 1, diff: 1, explored: 0, time: 0.00s, CS


lib2_hs99exp-IN 49x49 (161) con: 21, var: 28

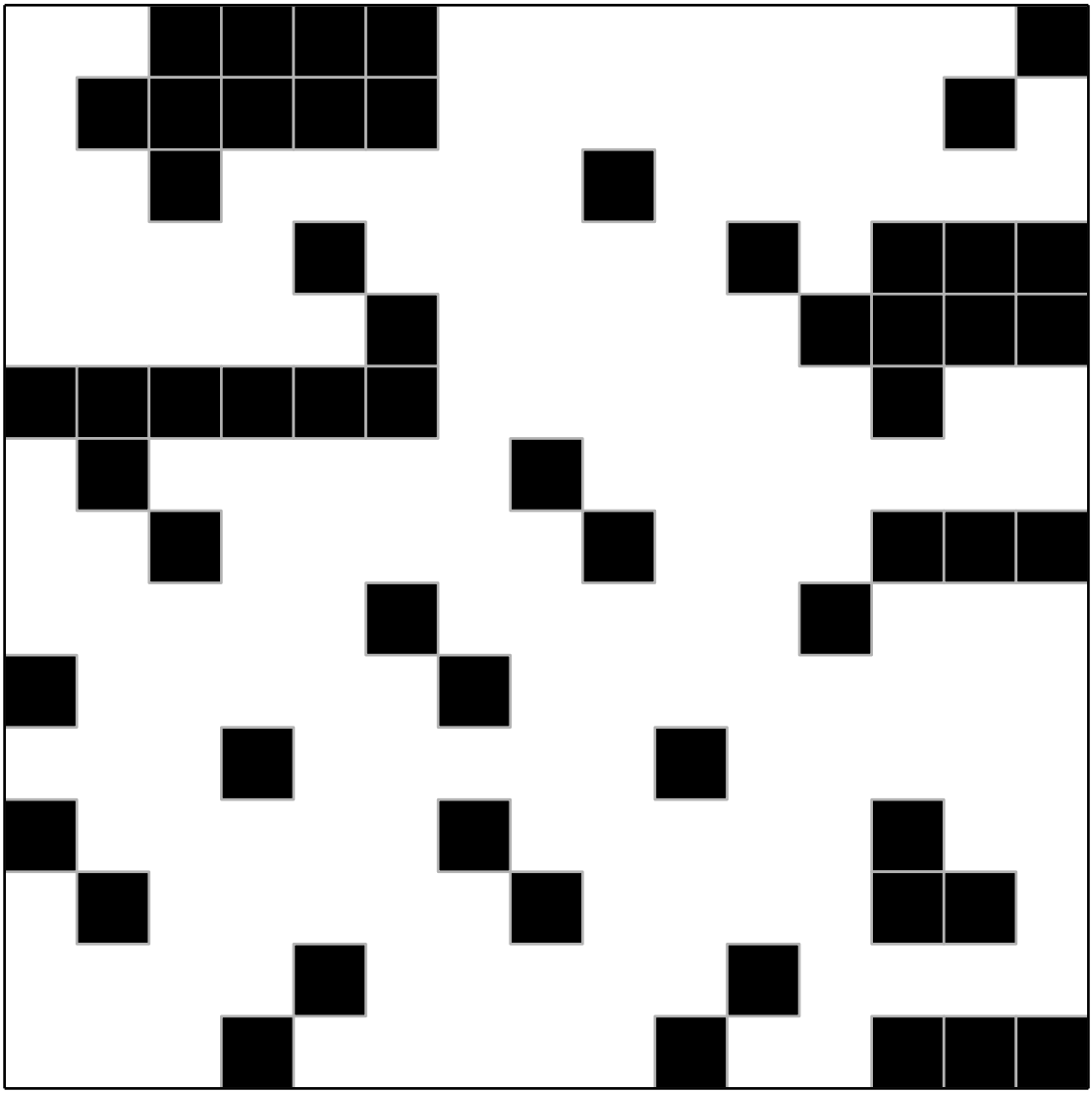

lib2_hs99exp-IN, cost: 1, diff: 1, explored: 0, time: 0.00s, CS

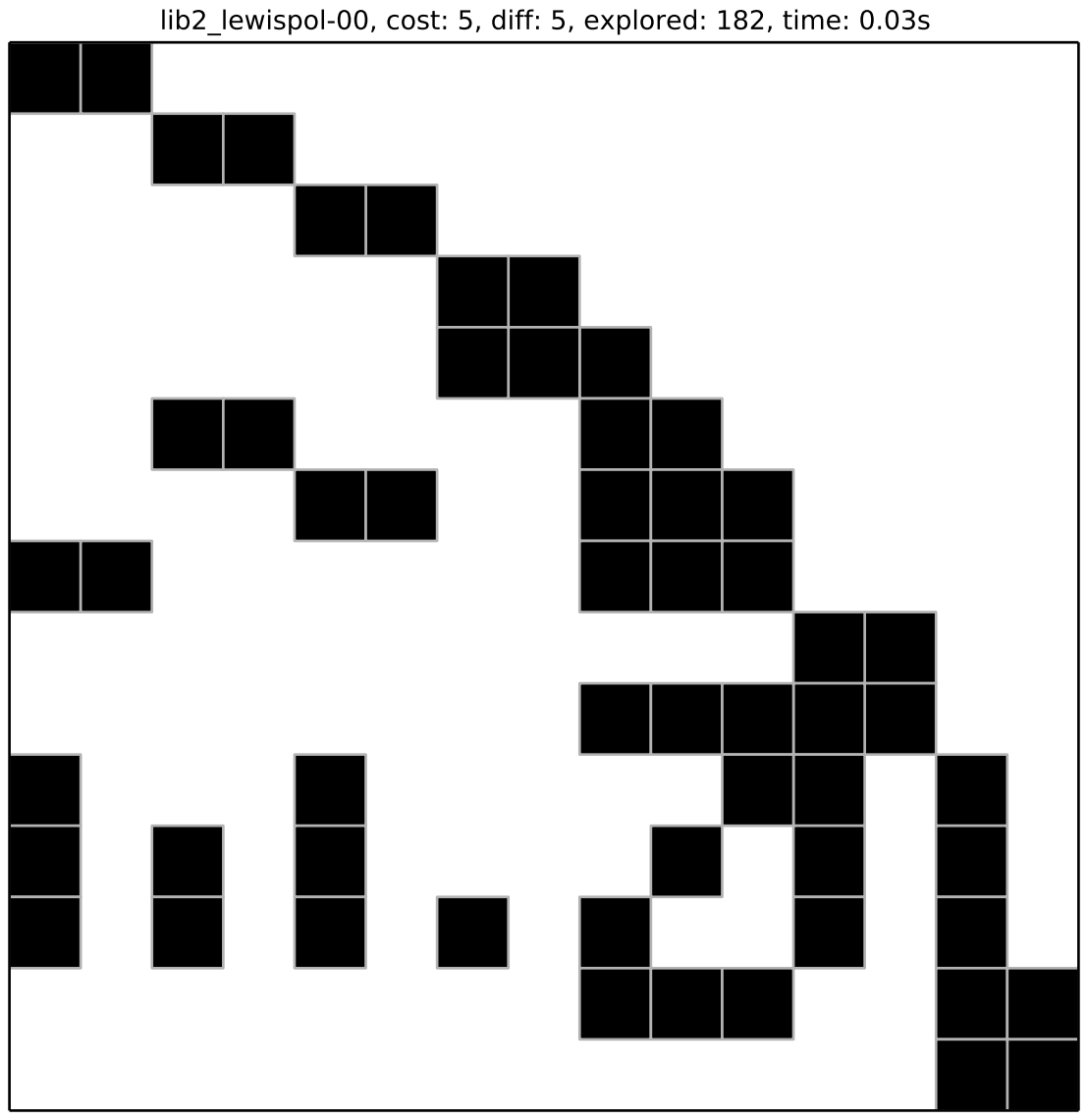
lib2_hs99exp-RE 49x49 (161) con: 21, var: 28



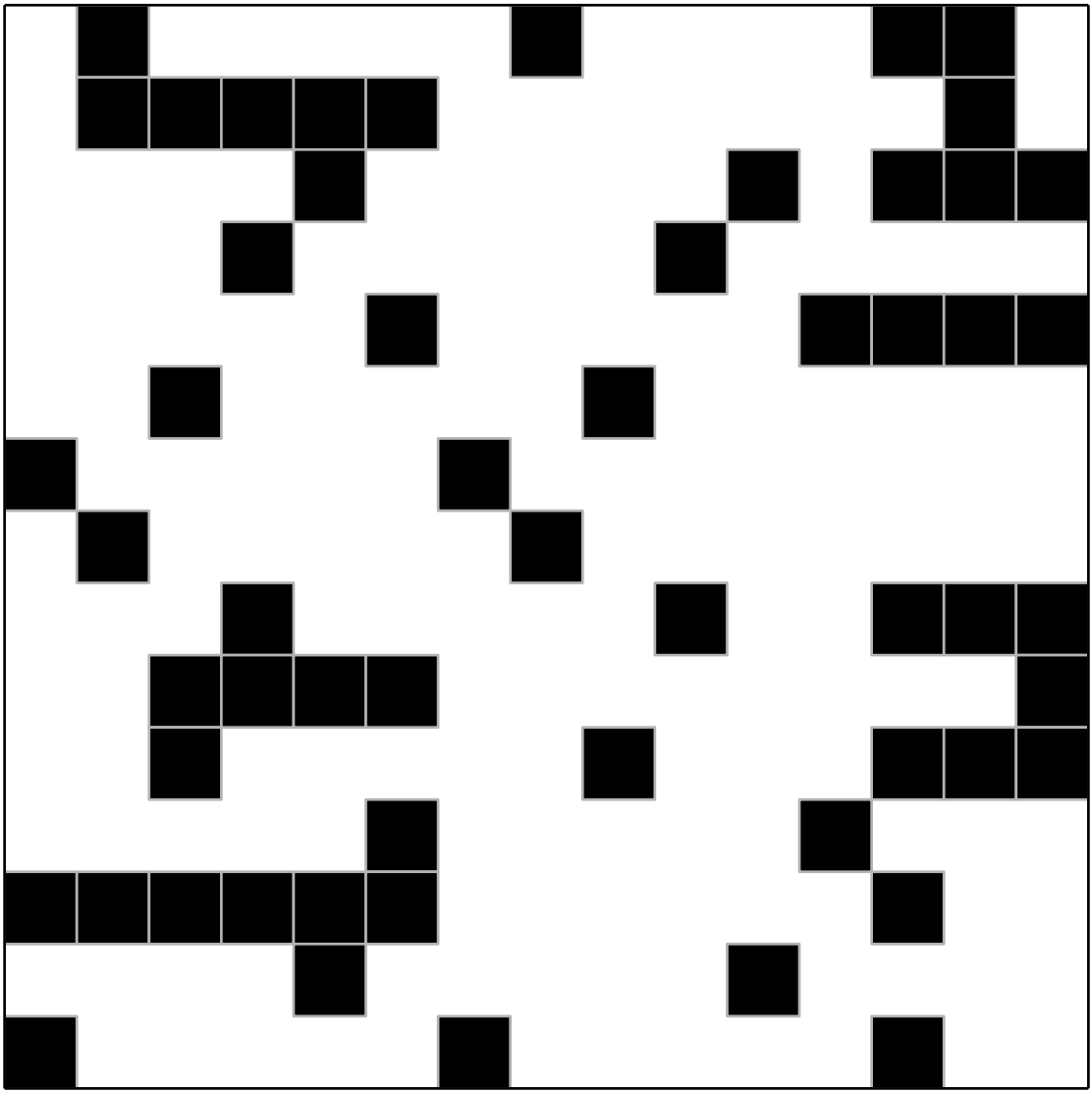

lib2_hs99exp-RE, cost: 1, diff: 1, explored: 0, time: 0.00s, CS

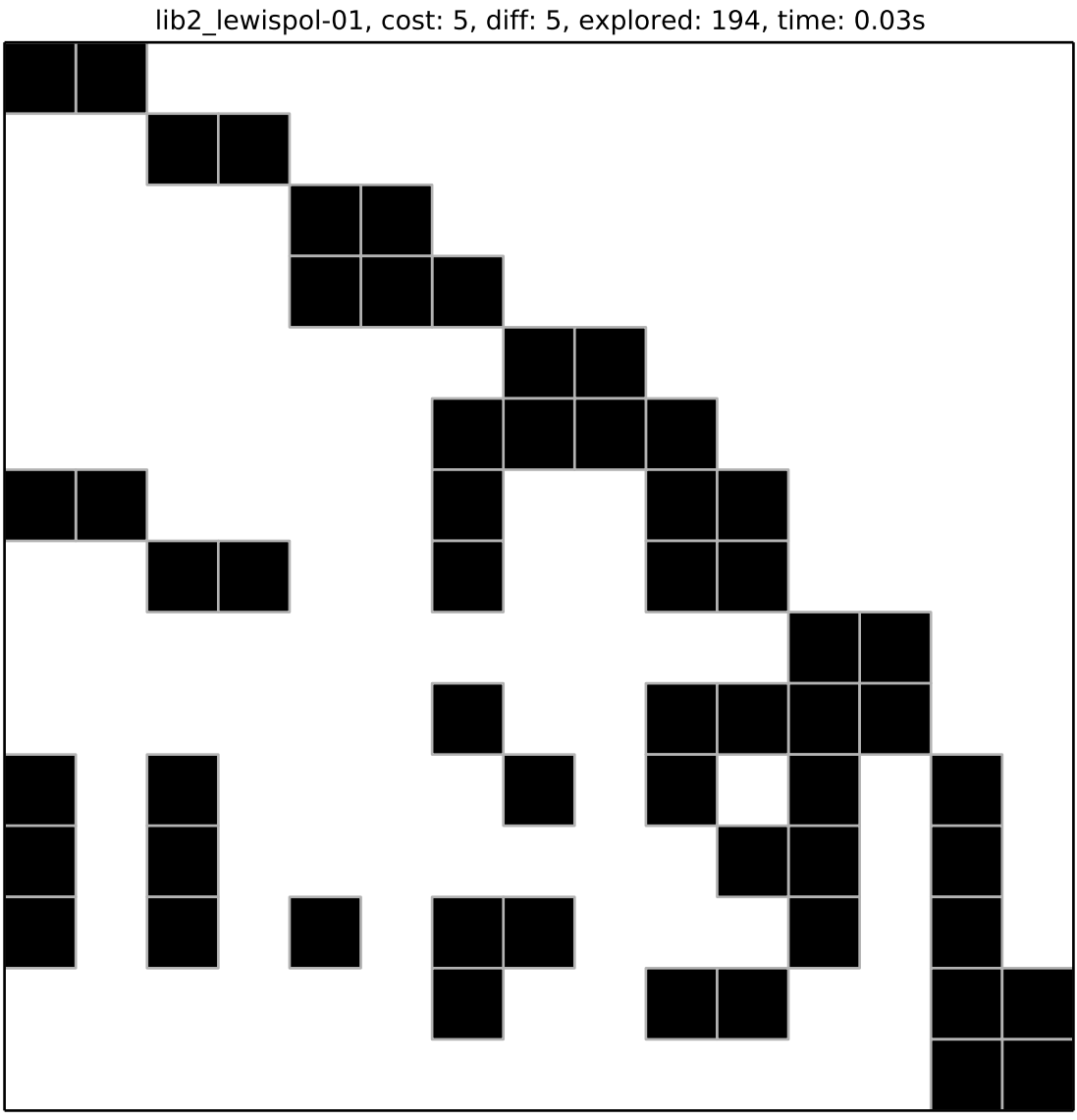
lib2_lewispol-00 15x15 (57) con: 9, var: 6



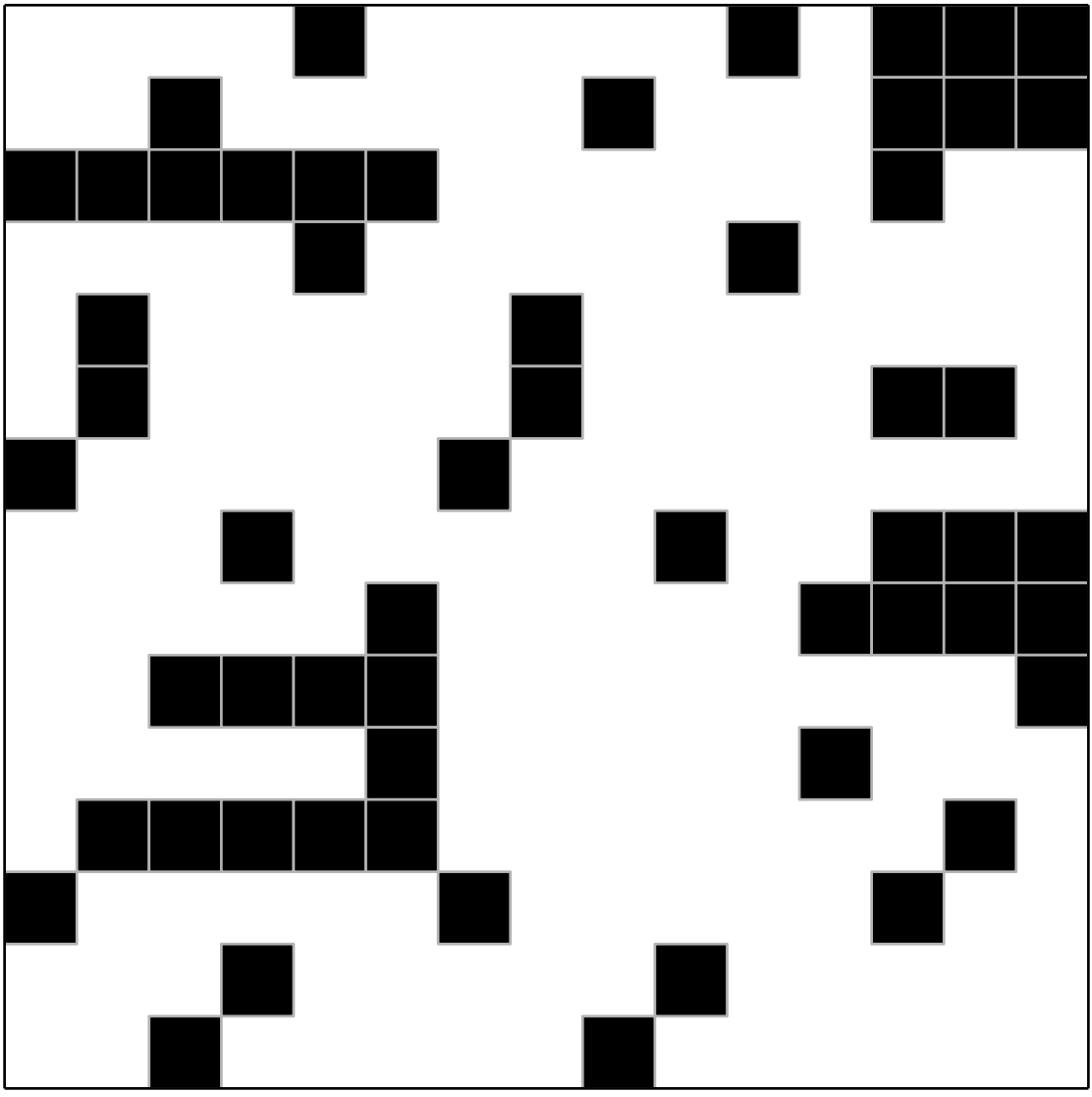

lib2_lewispol-00, cost: 5, diff: 5, explored: 182, time: 0.03s

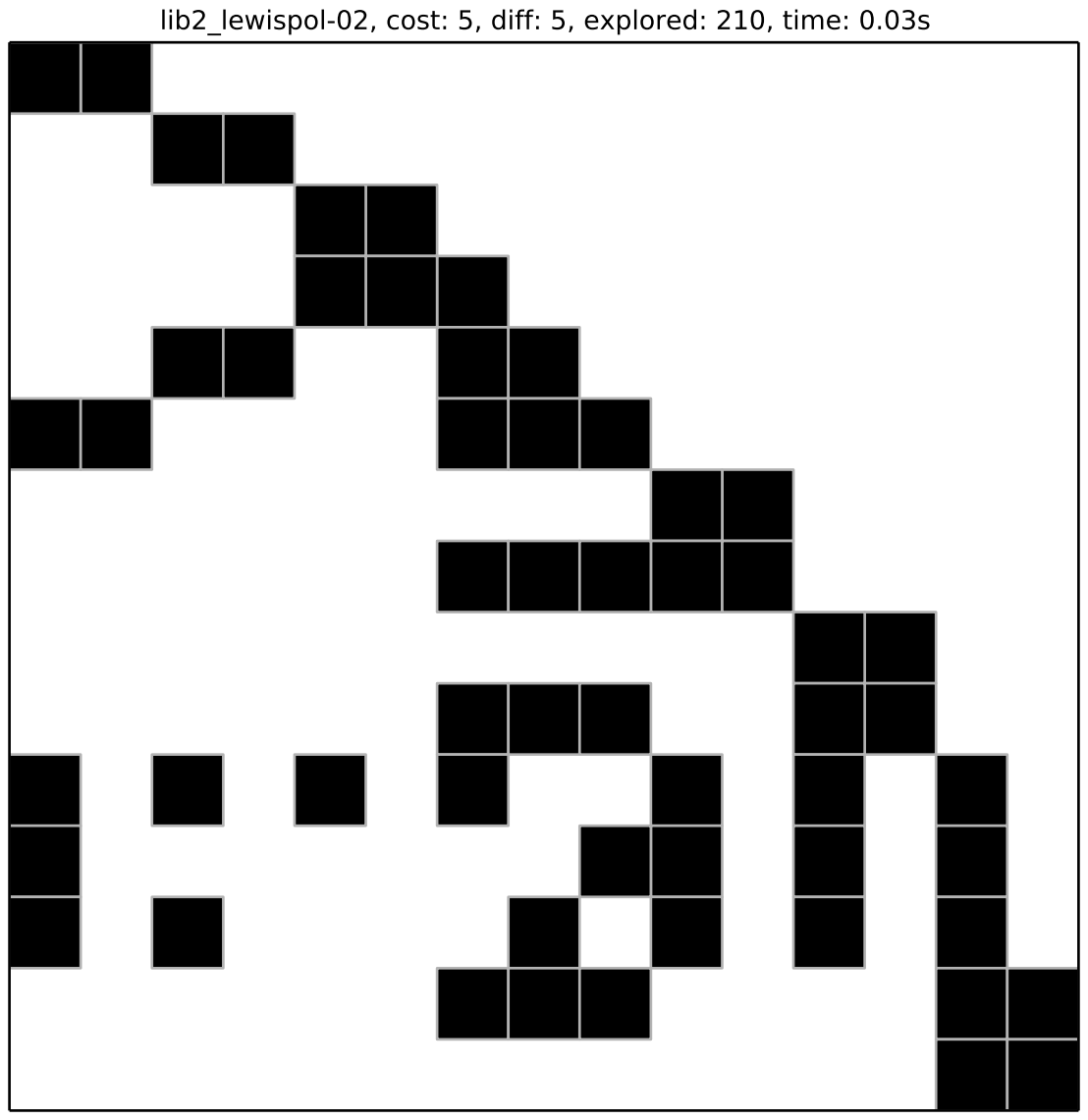
lib2_lewispol-01 15x15 (57) con: 9, var: 6



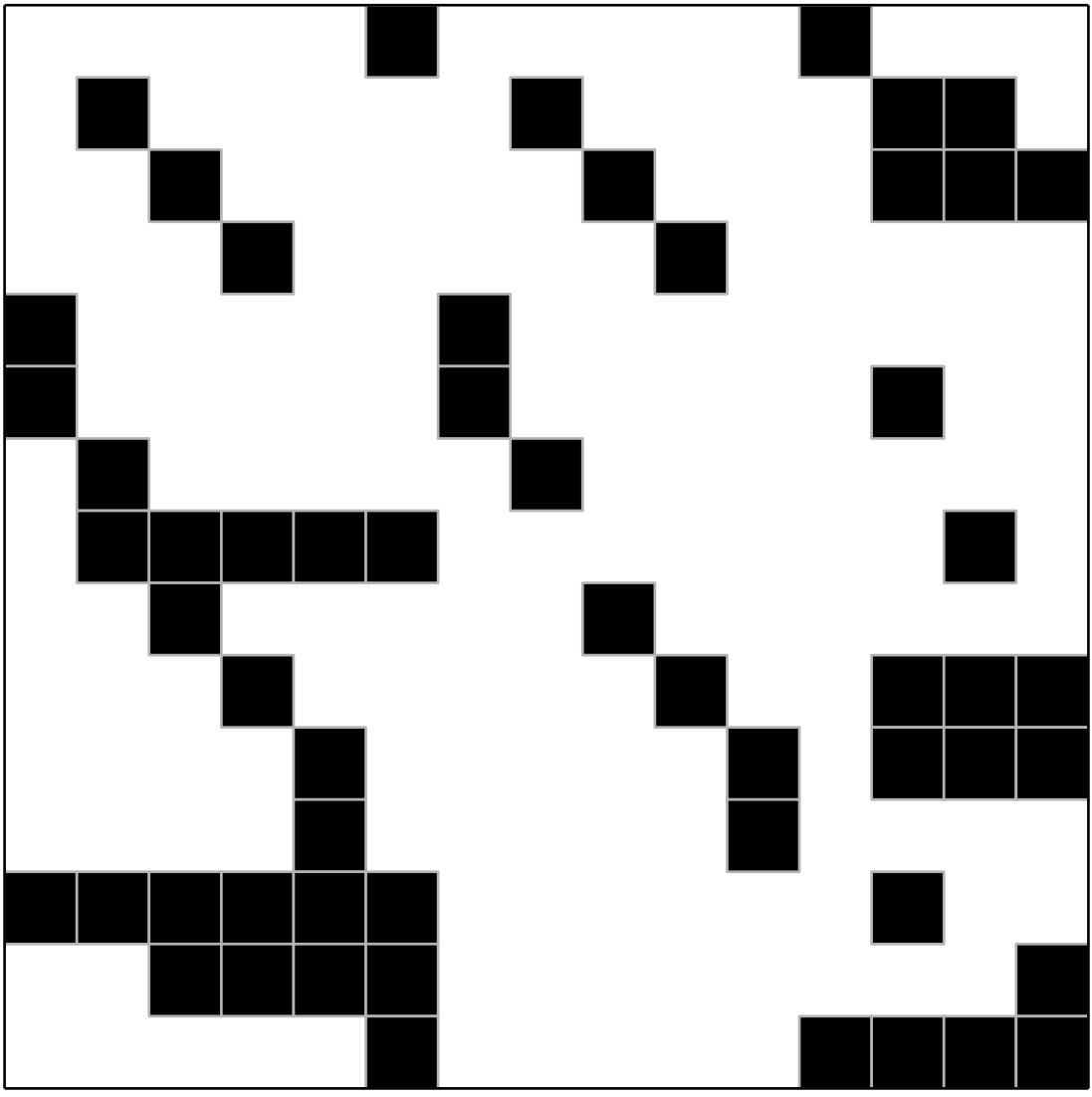

lib2_lewispol-01, cost: 5, diff: 5, explored: 194, time: 0.03s

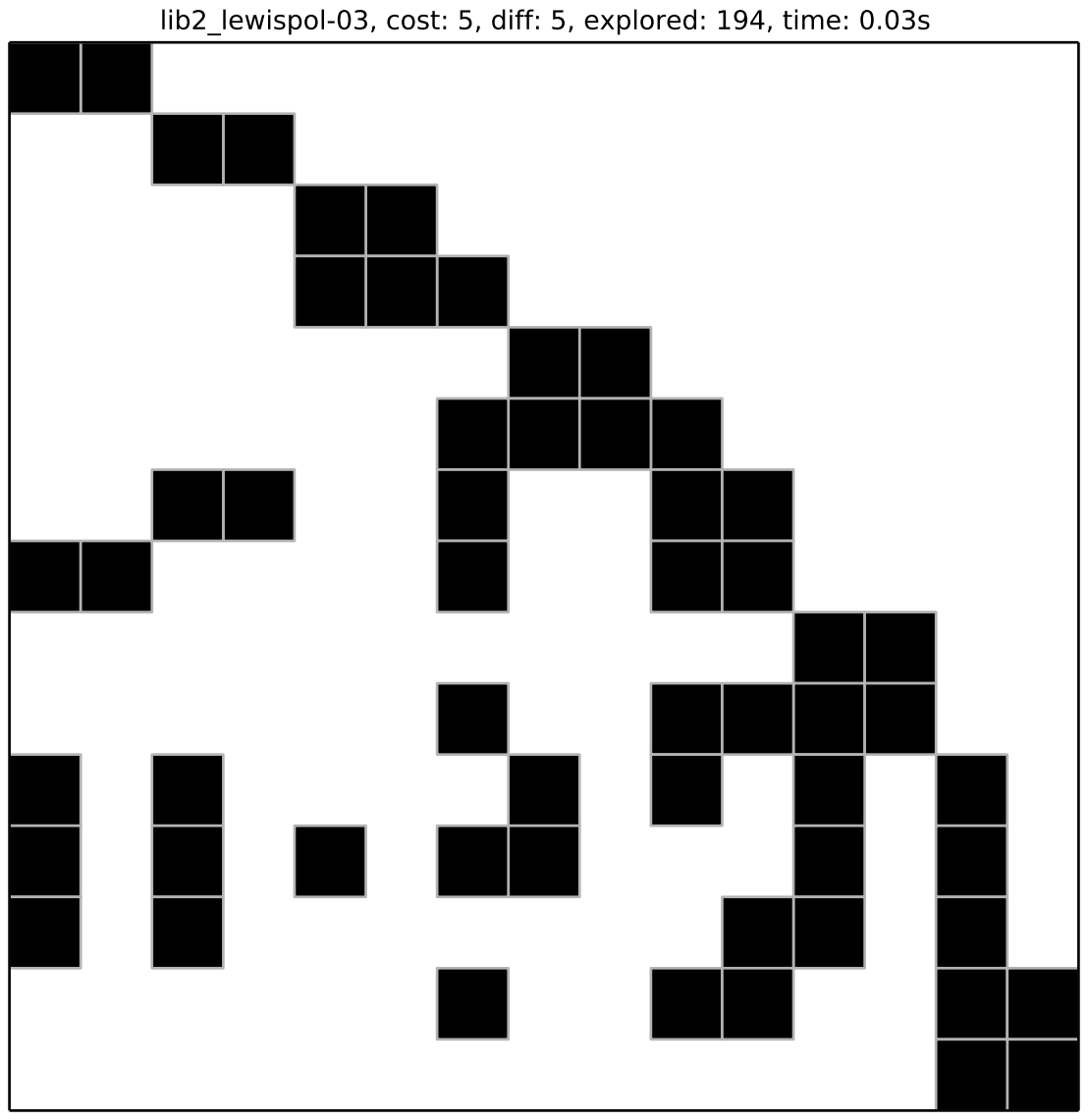
lib2_lewispol-02 15x15 (57) con: 9, var: 6




lib2_lewispol-02, cost: 5, diff: 5, explored: 210, time: 0.03s

lib2_lewispol-03 15x15 (57) con: 9, var: 6

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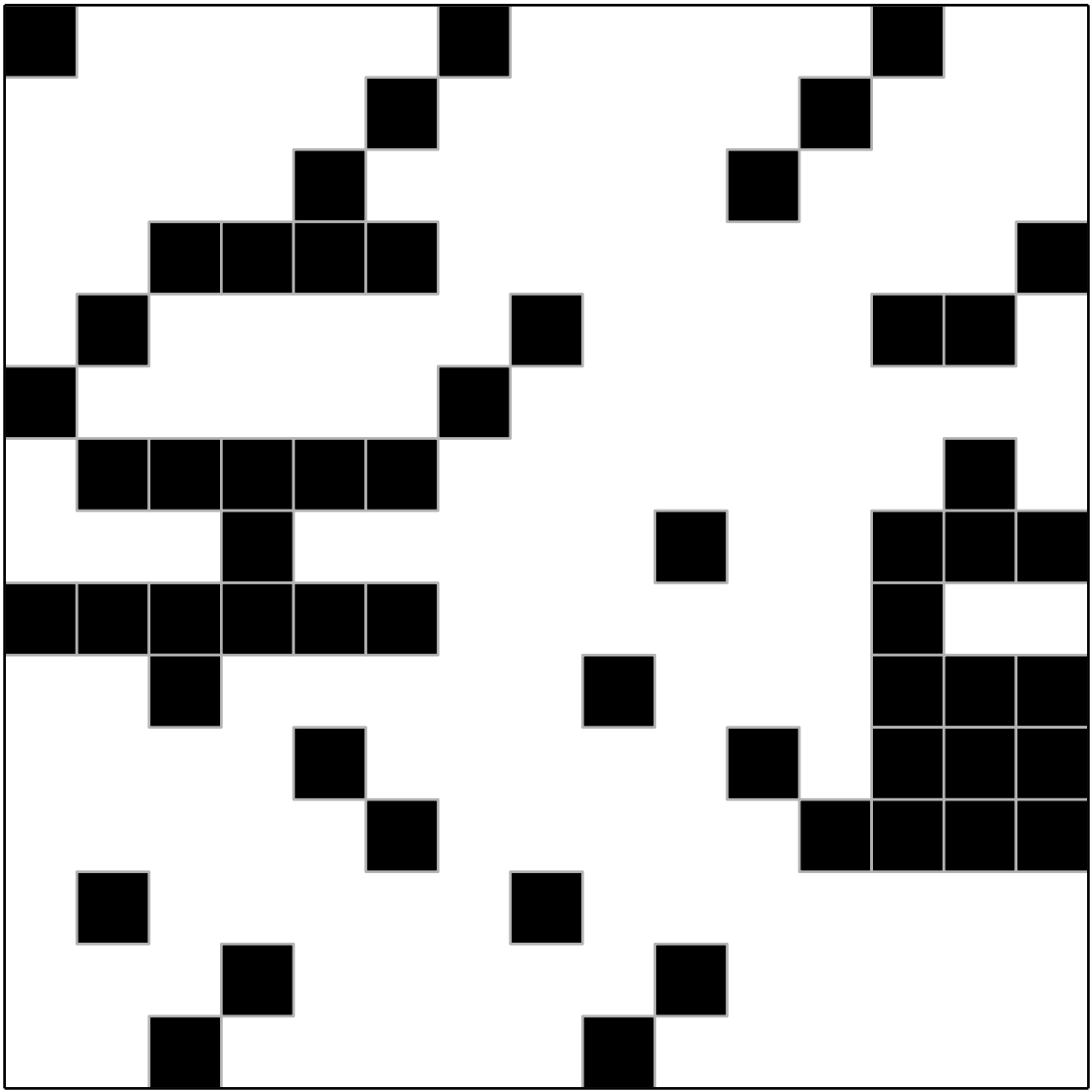
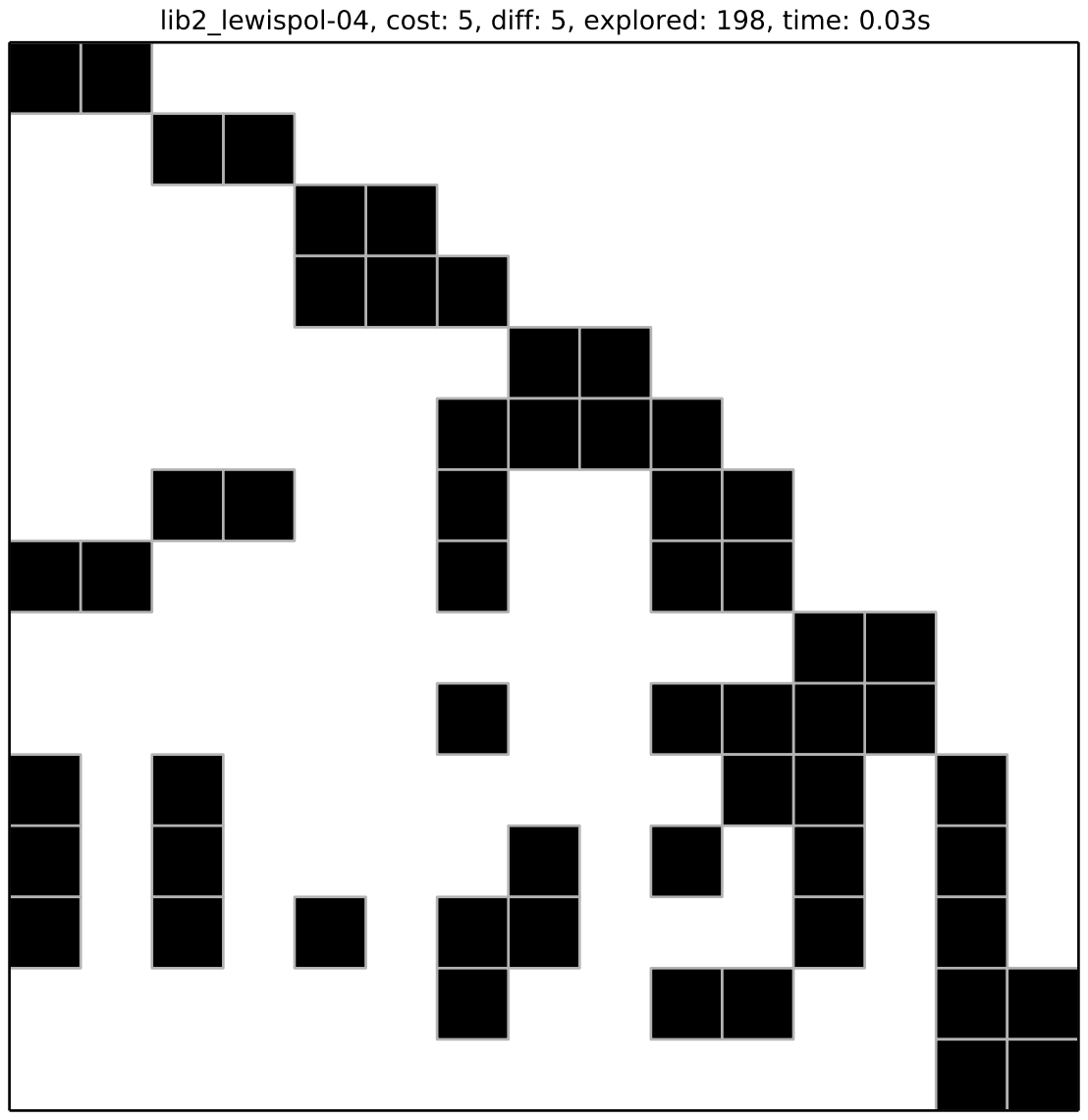
lib2_lewispol-04 15x15 (57) con: 9, var: 6

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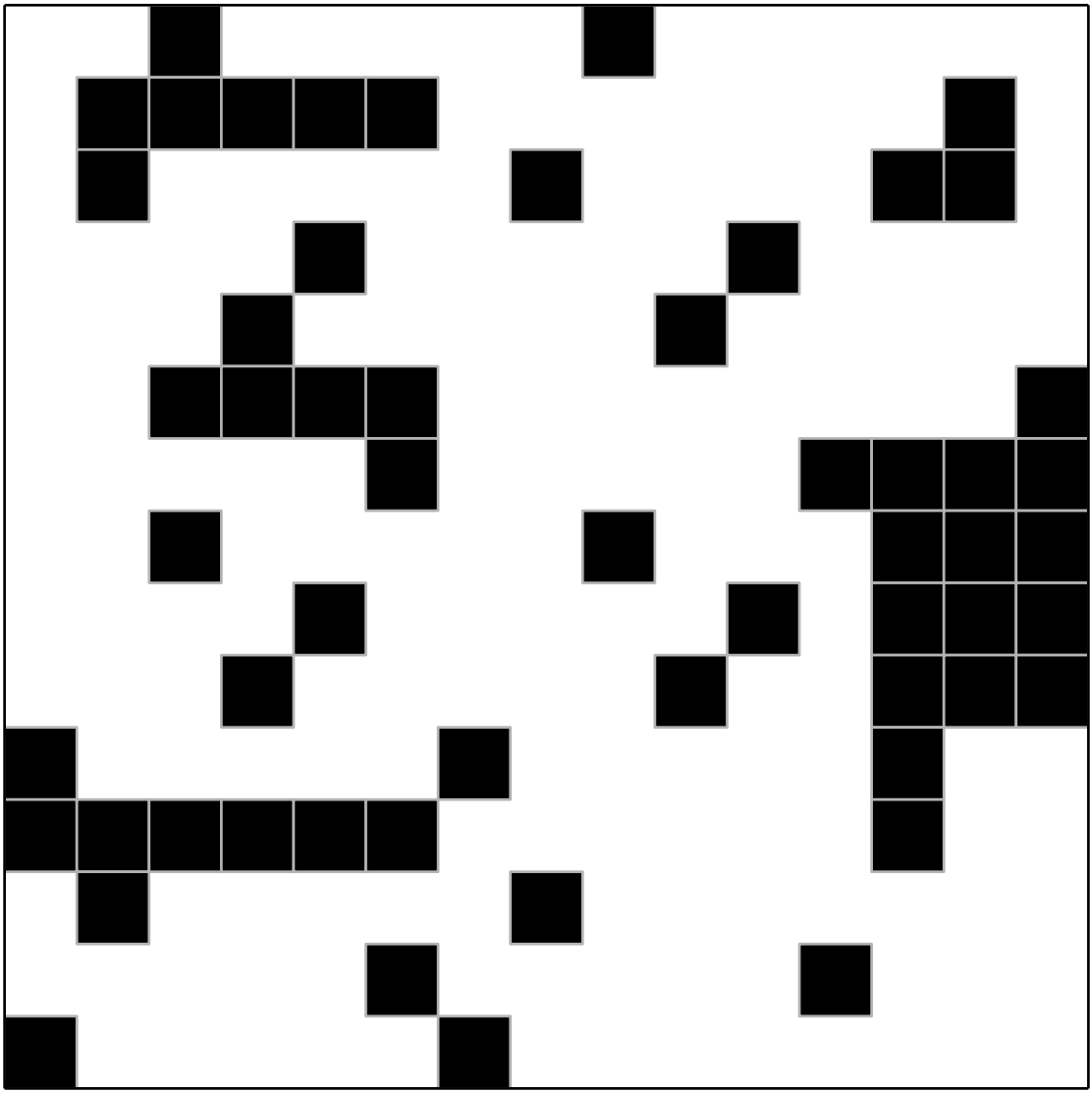
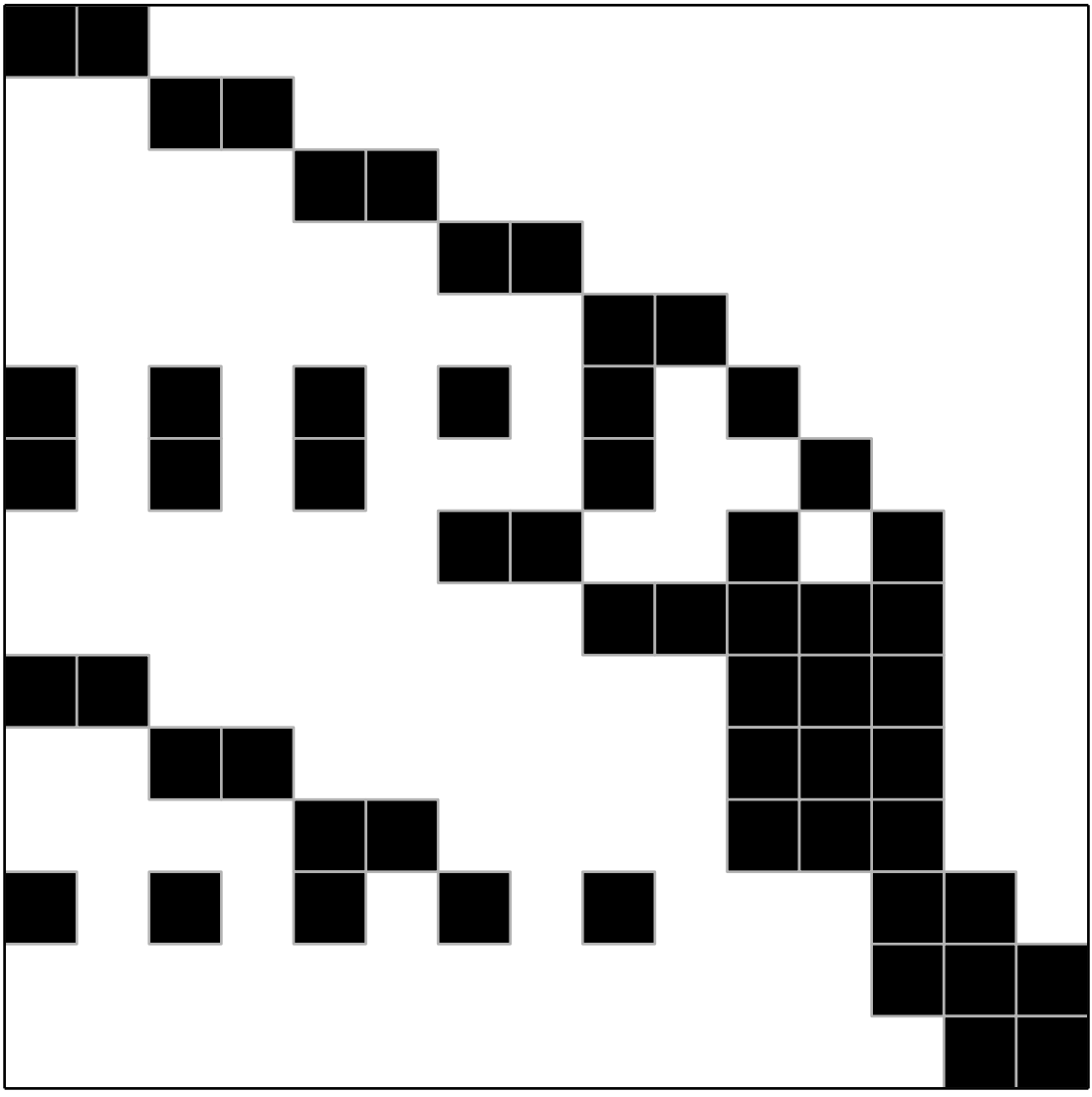
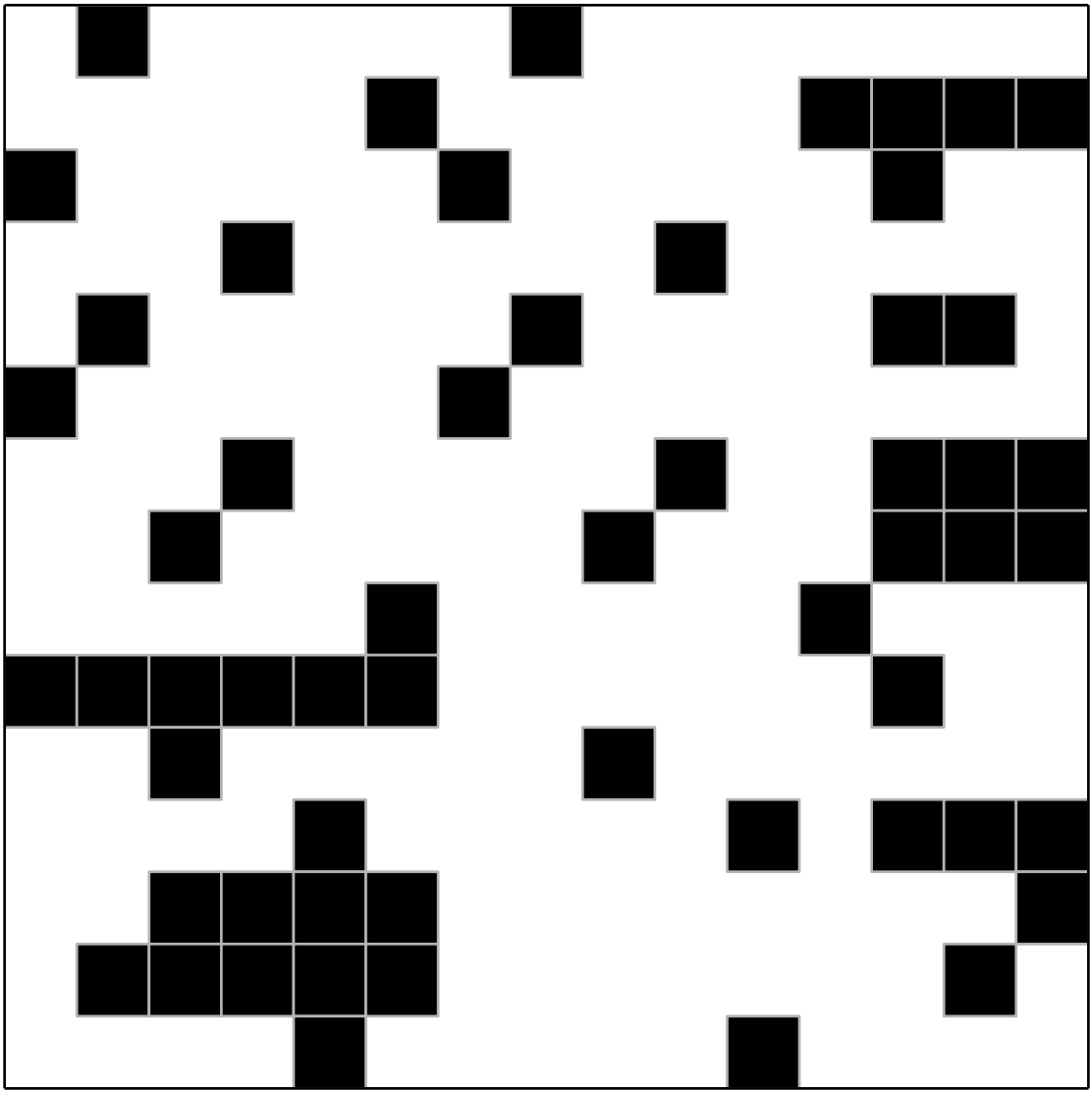
lib2_lewispol-05 15x15 (57) con: 9, var: 6

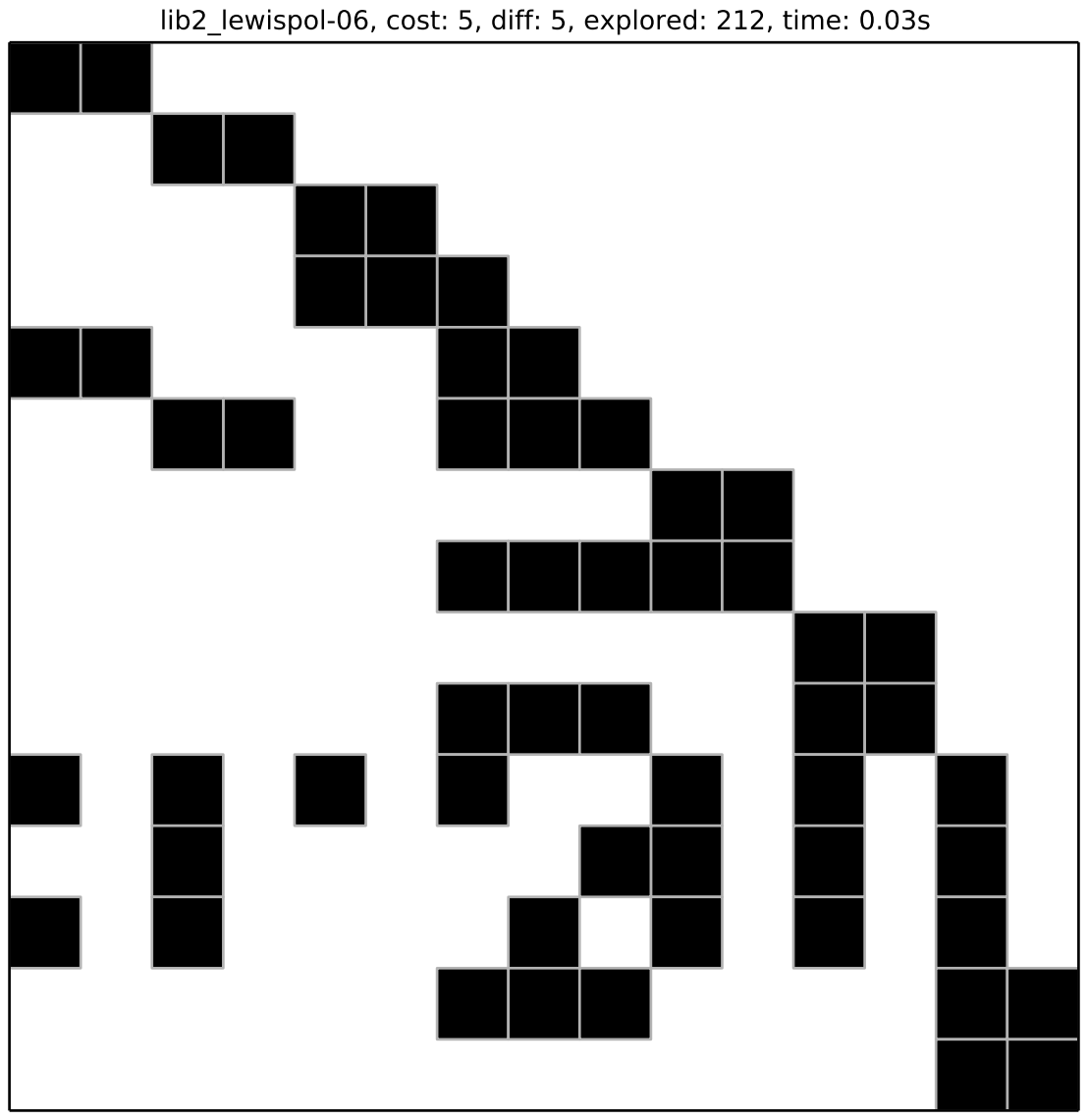


lib2_lewispol-05, cost: 5, diff: 5, explored: 173, time: 0.03s

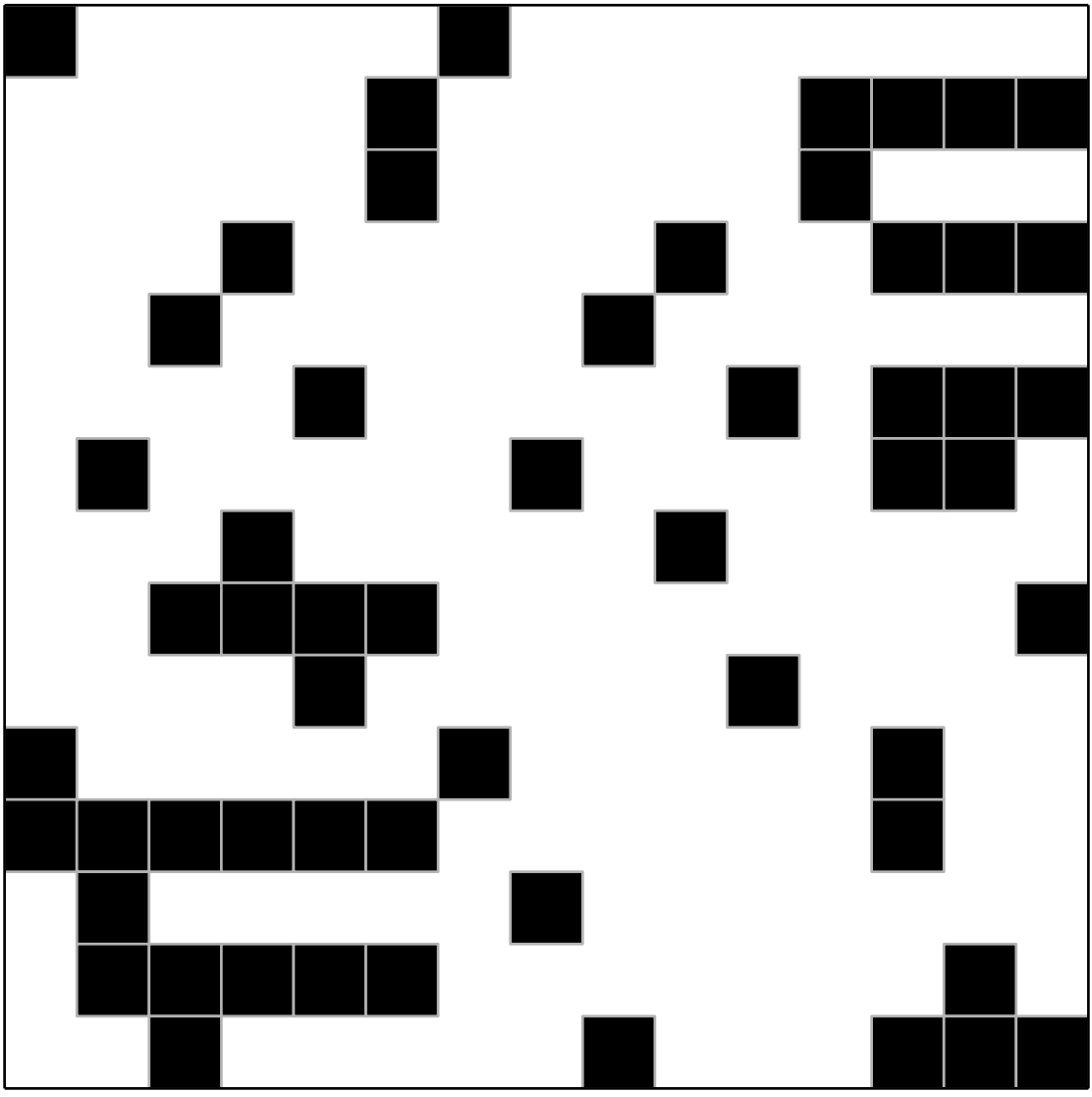


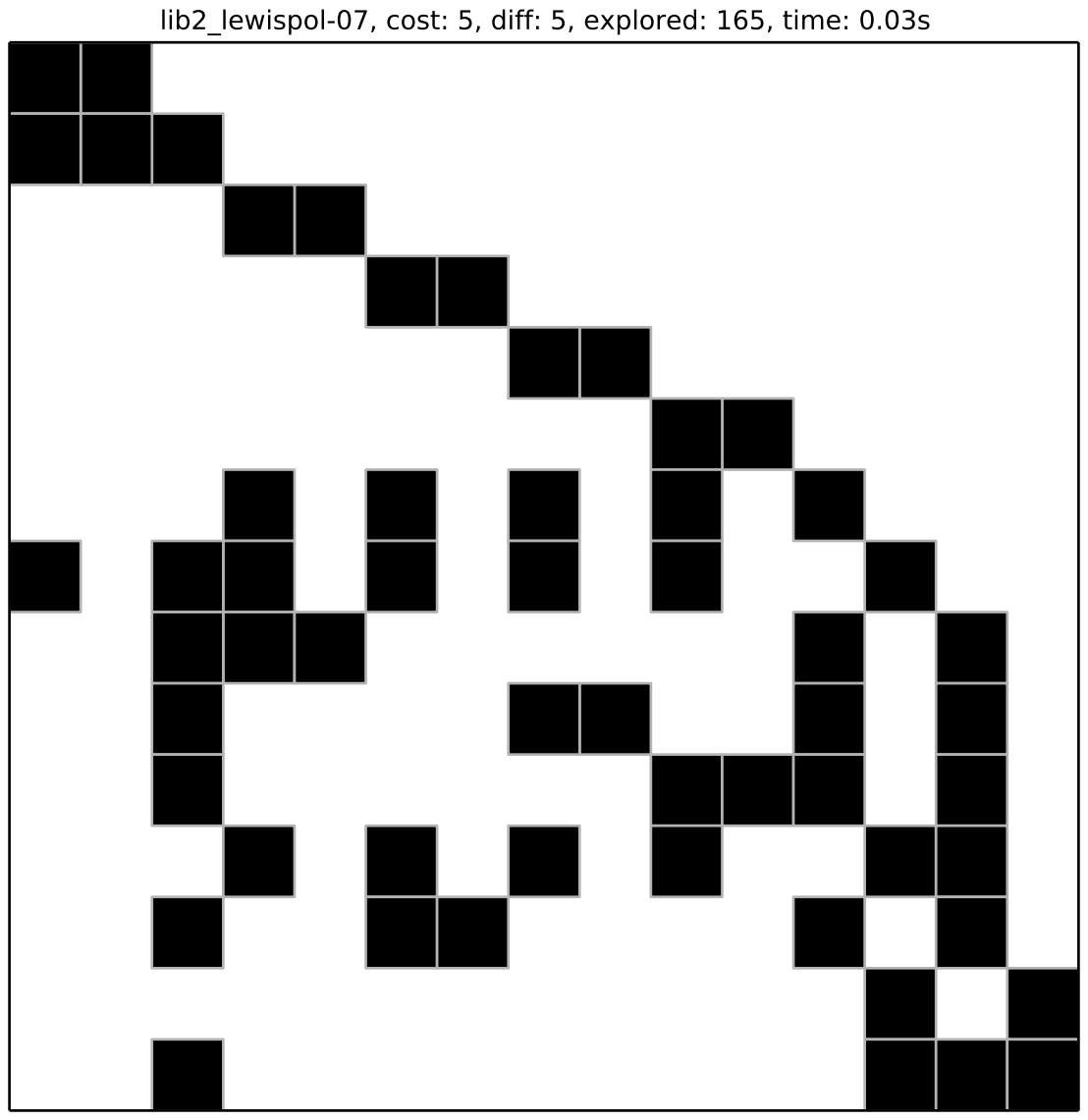
lib2_lewispol-06 15x15 (57) con: 9, var: 6



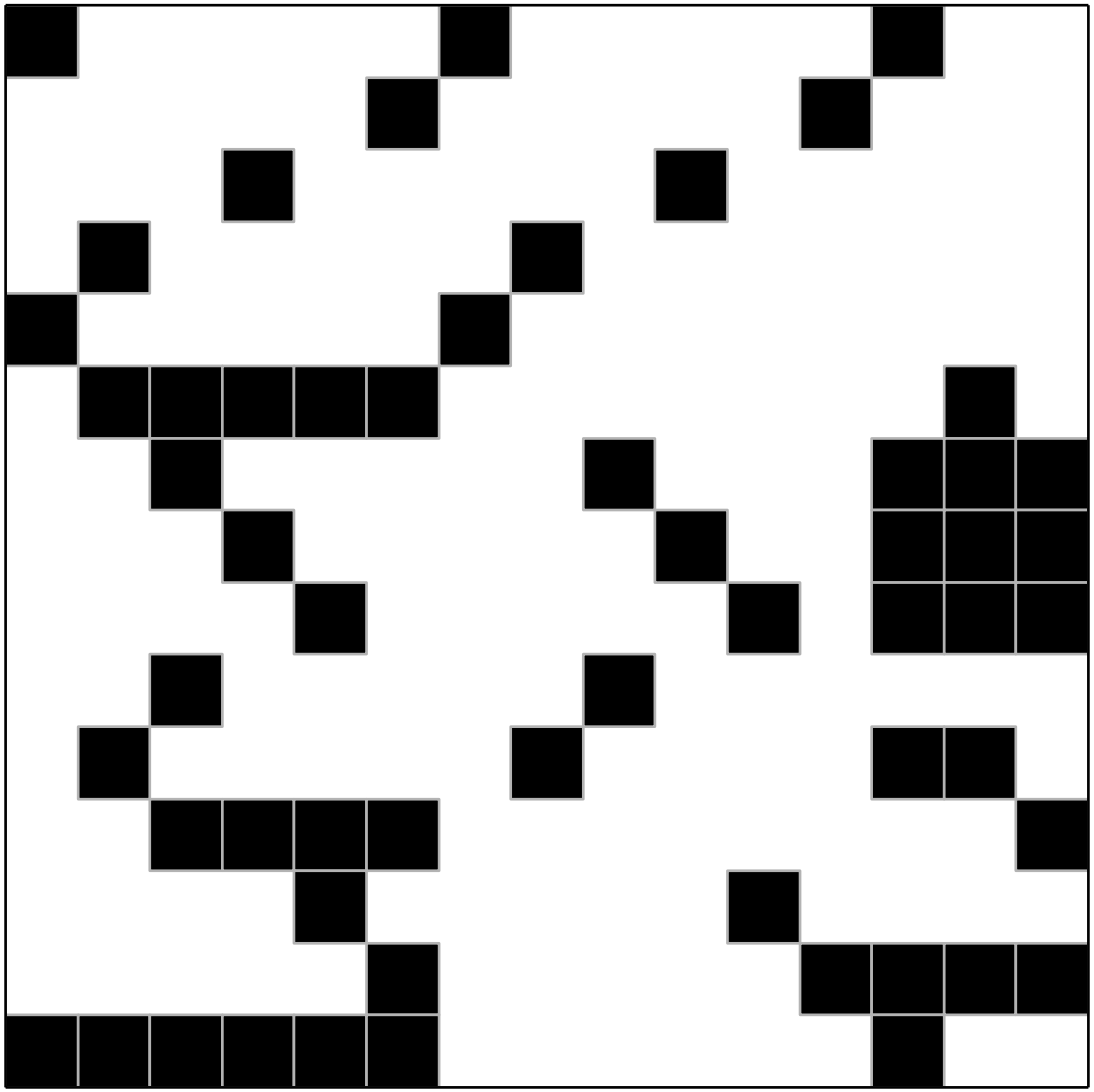

lib2_lewispol-06, cost: 5, diff: 5, explored: 212, time: 0.03s

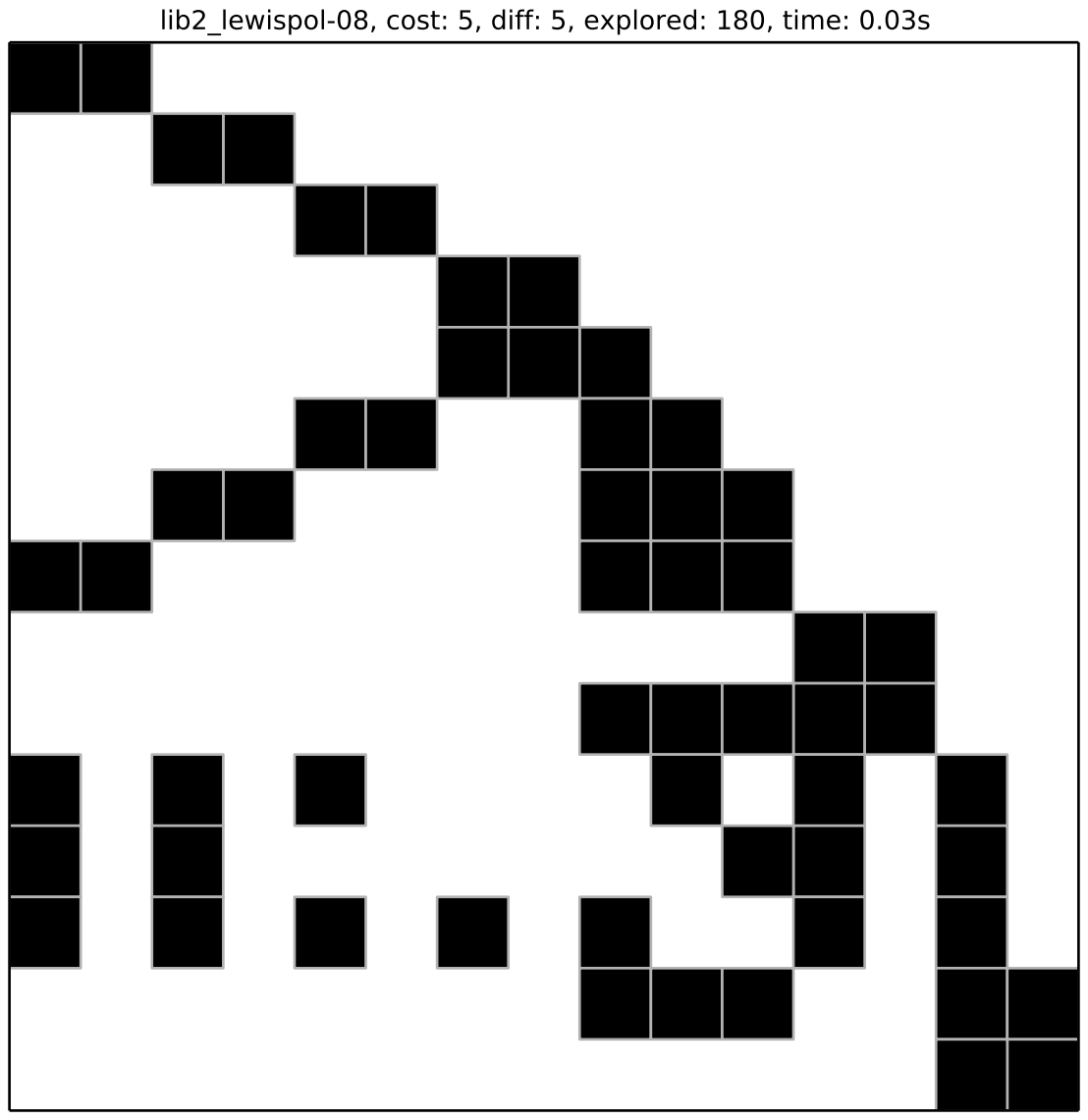
lib2_lewispol-07 15x15 (57) con: 9, var: 6



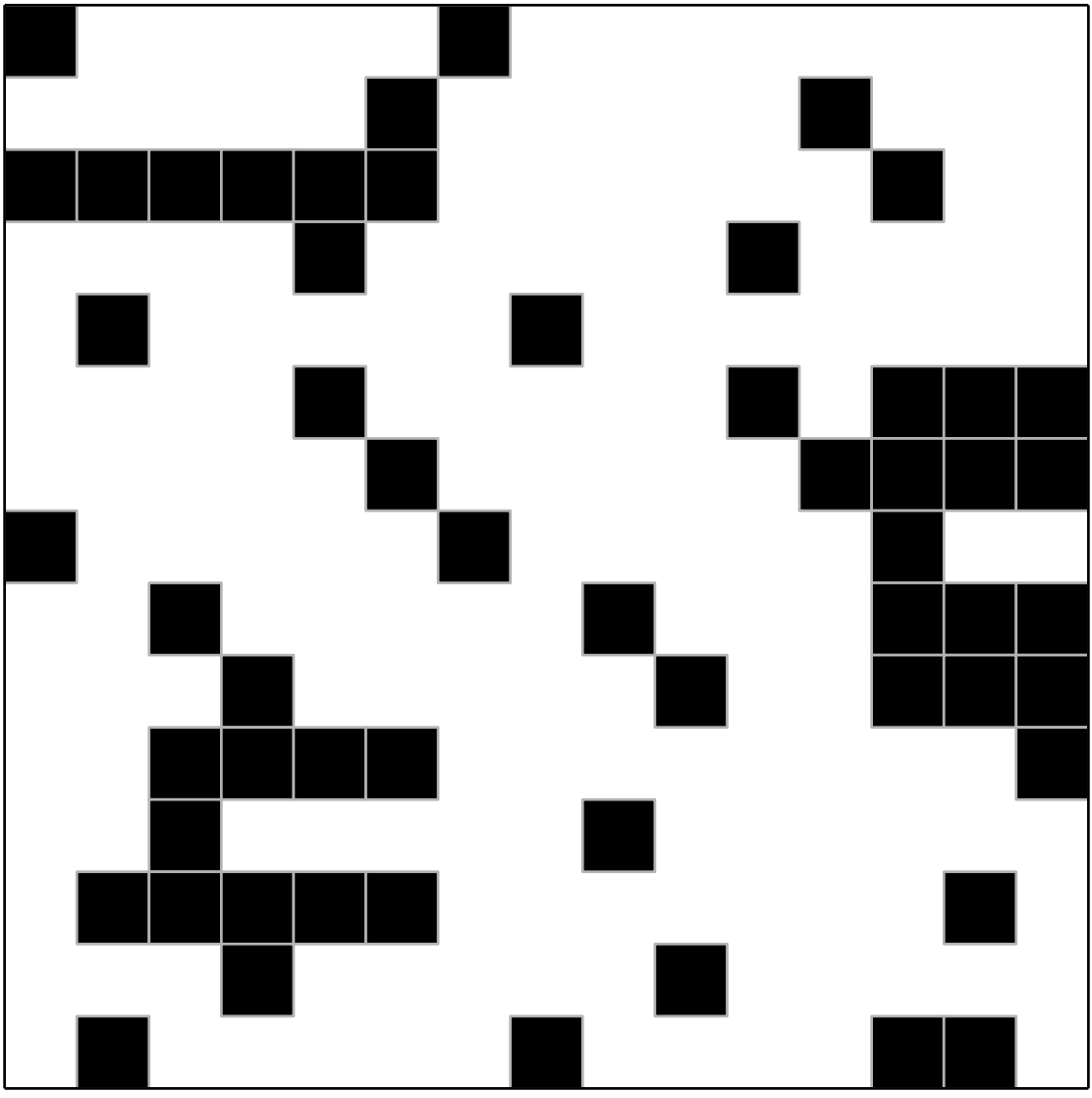

lib2_lewispol-07, cost: 5, diff: 5, explored: 165, time: 0.03s

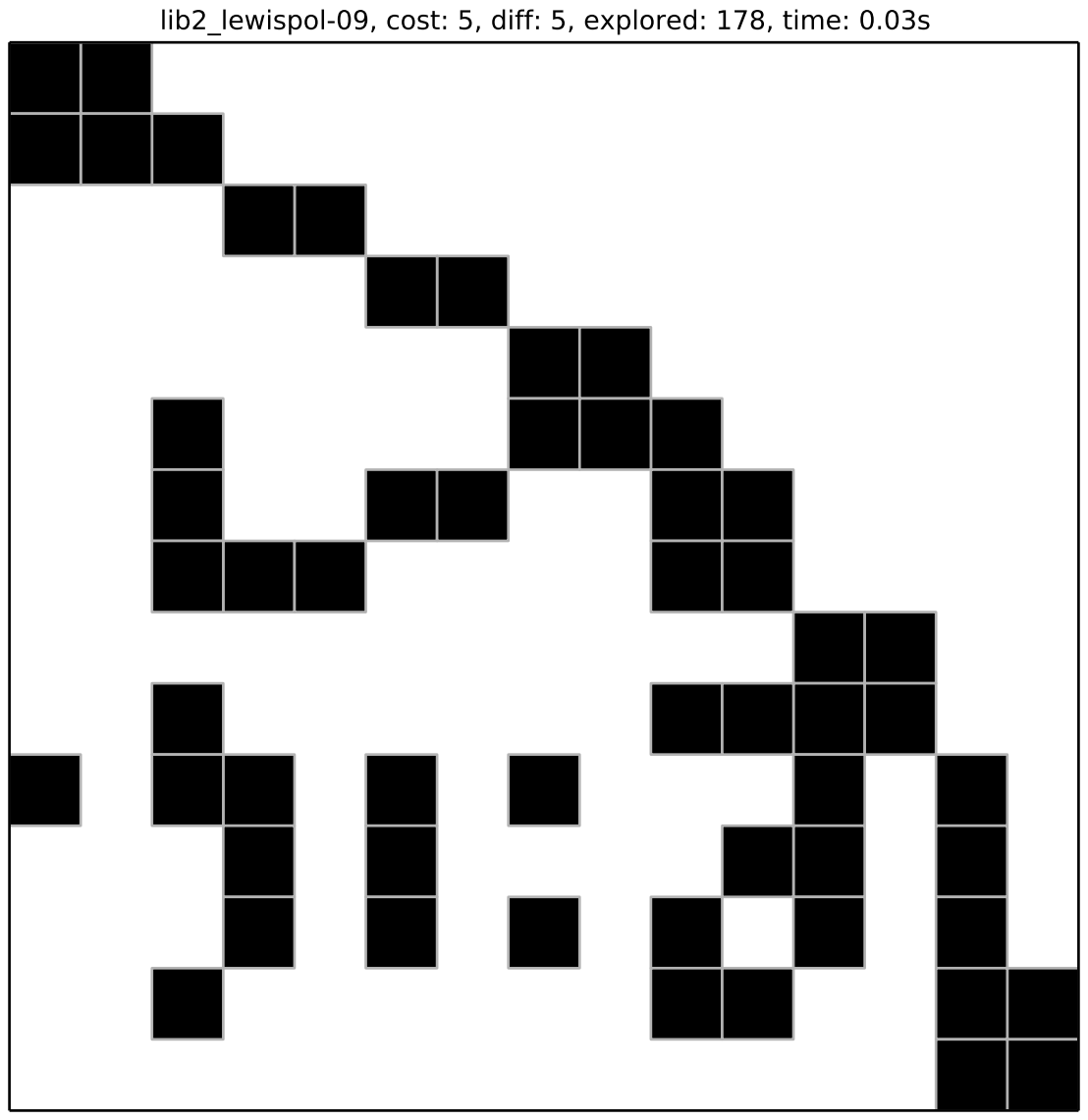
lib2_lewispol-08 15x15 (57) con: 9, var: 6

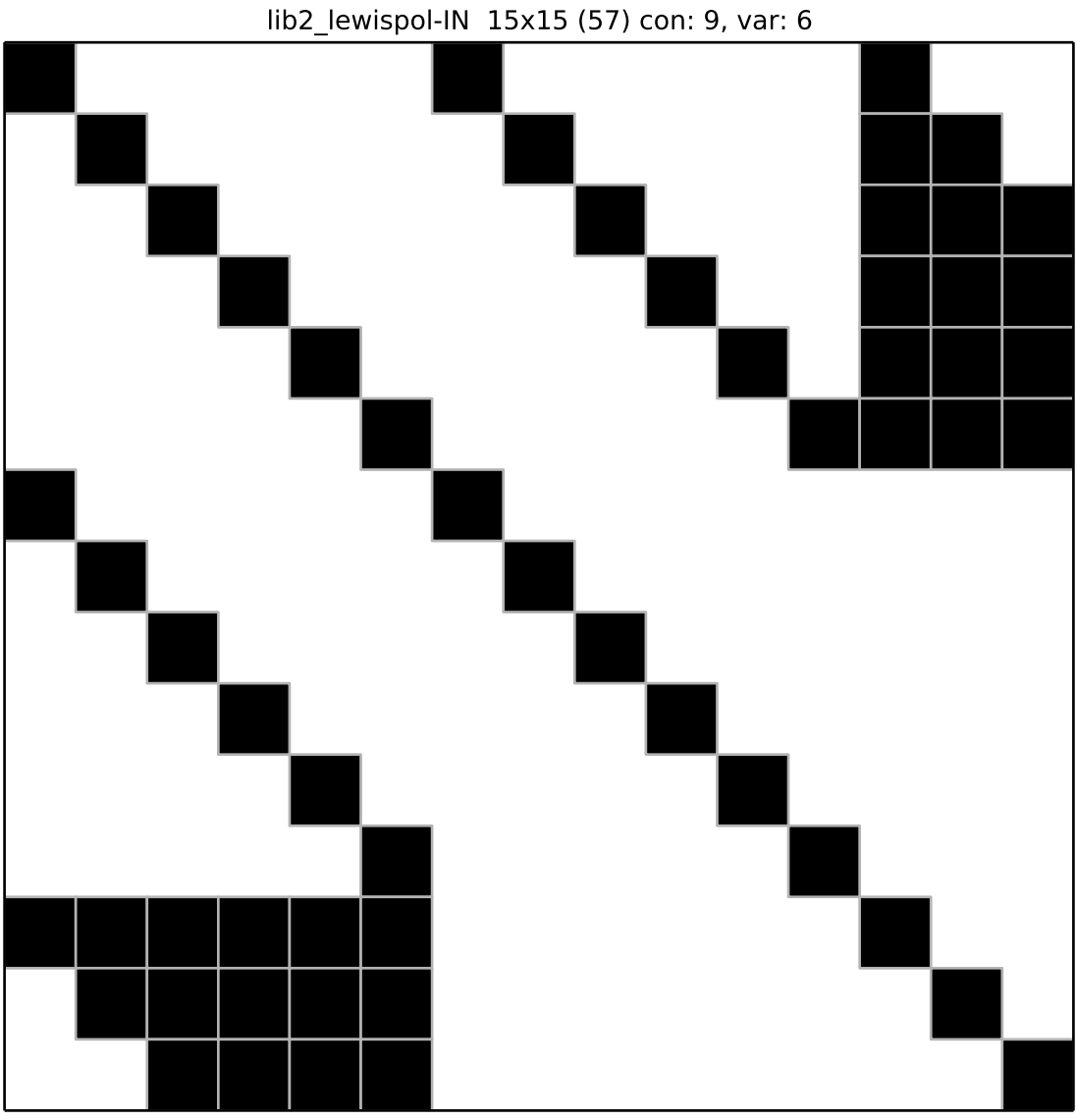



lib2_lewispol-08, cost: 5, diff: 5, explored: 180, time: 0.03s

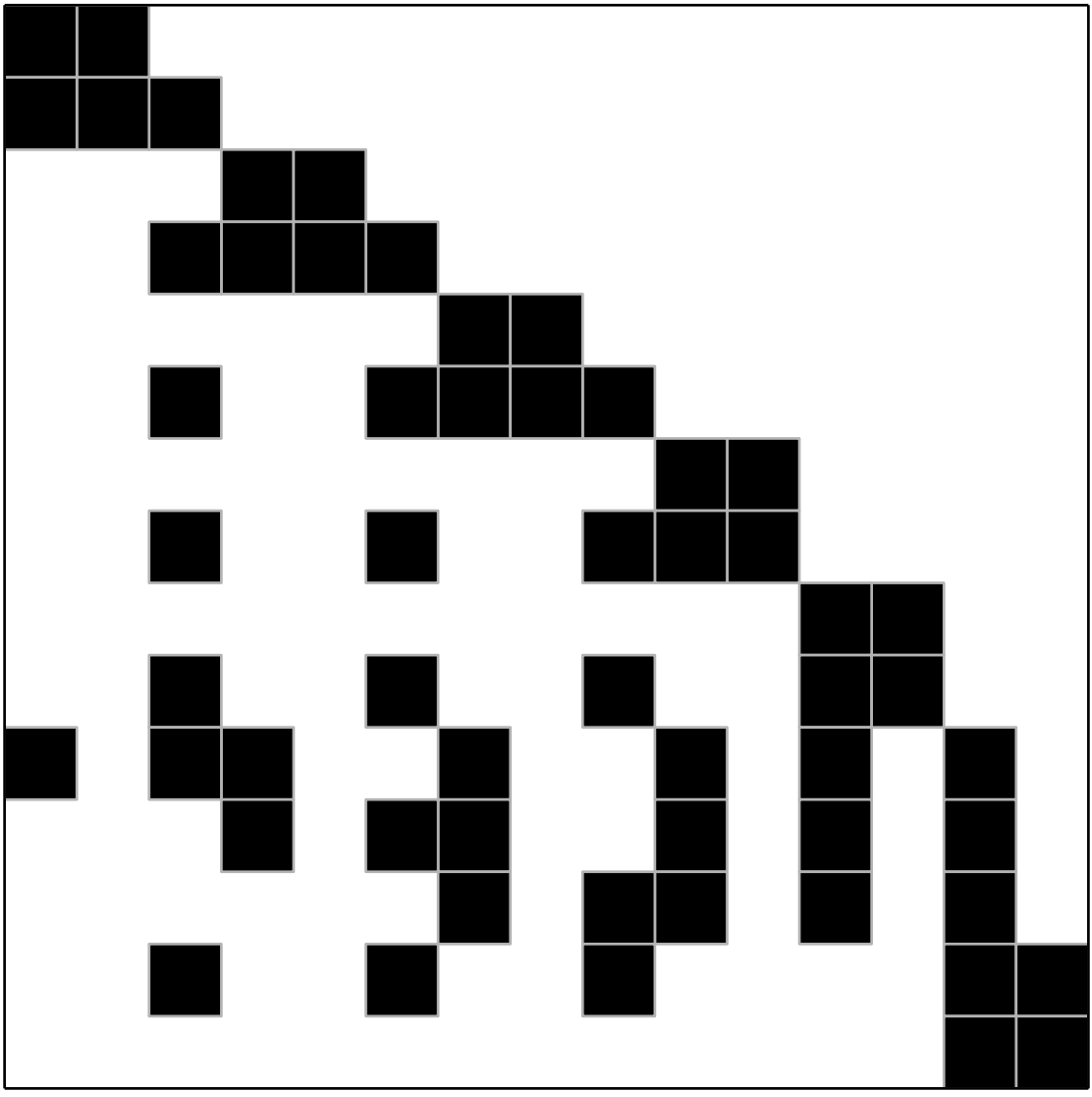
lib2_lewispol-09 15x15 (57) con: 9, var: 6



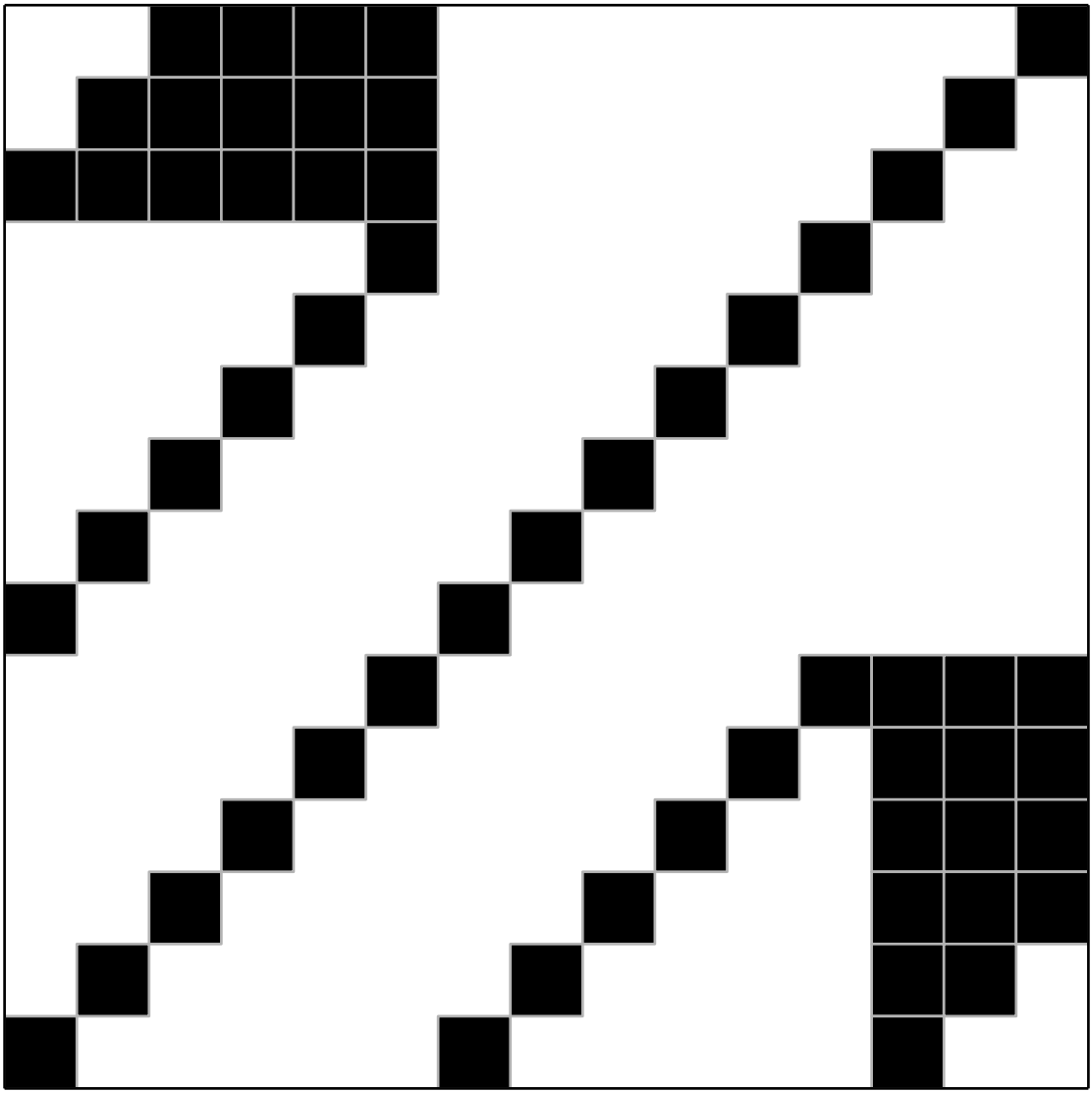

lib2_lewispol-09, cost: 5, diff: 5, explored: 178, time: 0.03s

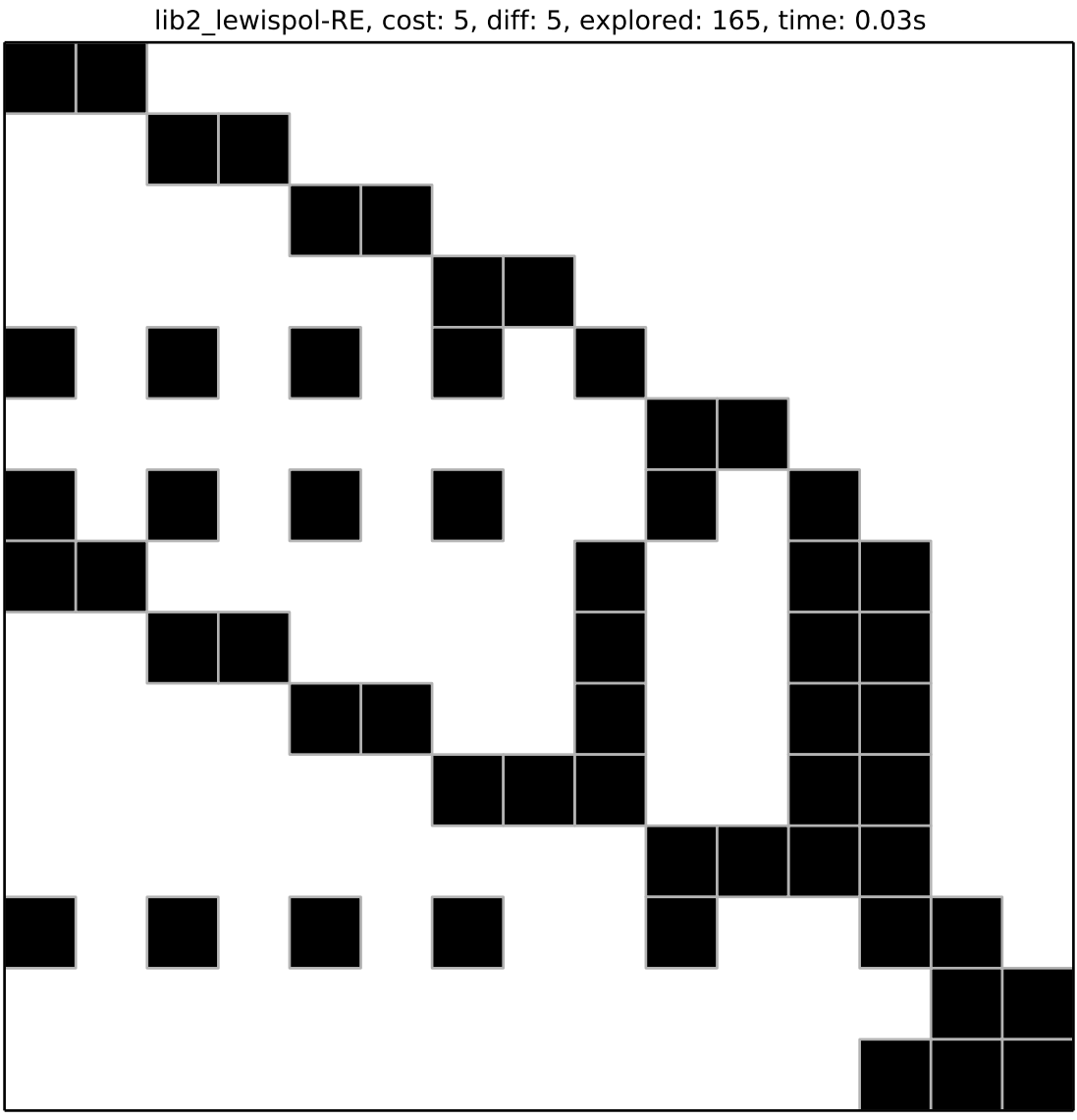

lib2_lewispol-IN 15x15 (57) con: 9, var: 6

lib2_lewispol-IN, cost: 5, diff: 5, explored: 223, time: 0.04s

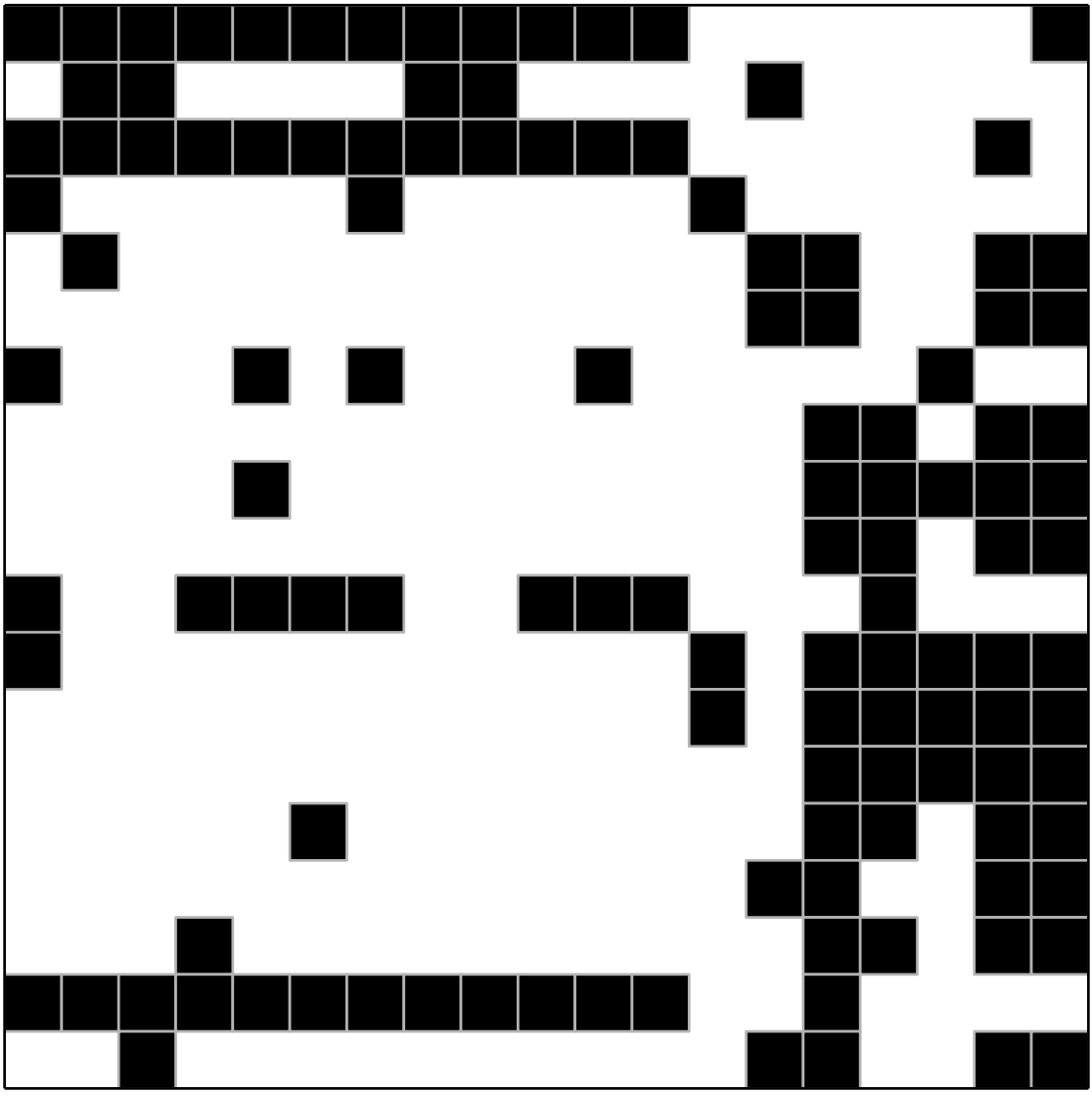


lib2_lewispol-RE 15x15 (57) con: 9, var: 6

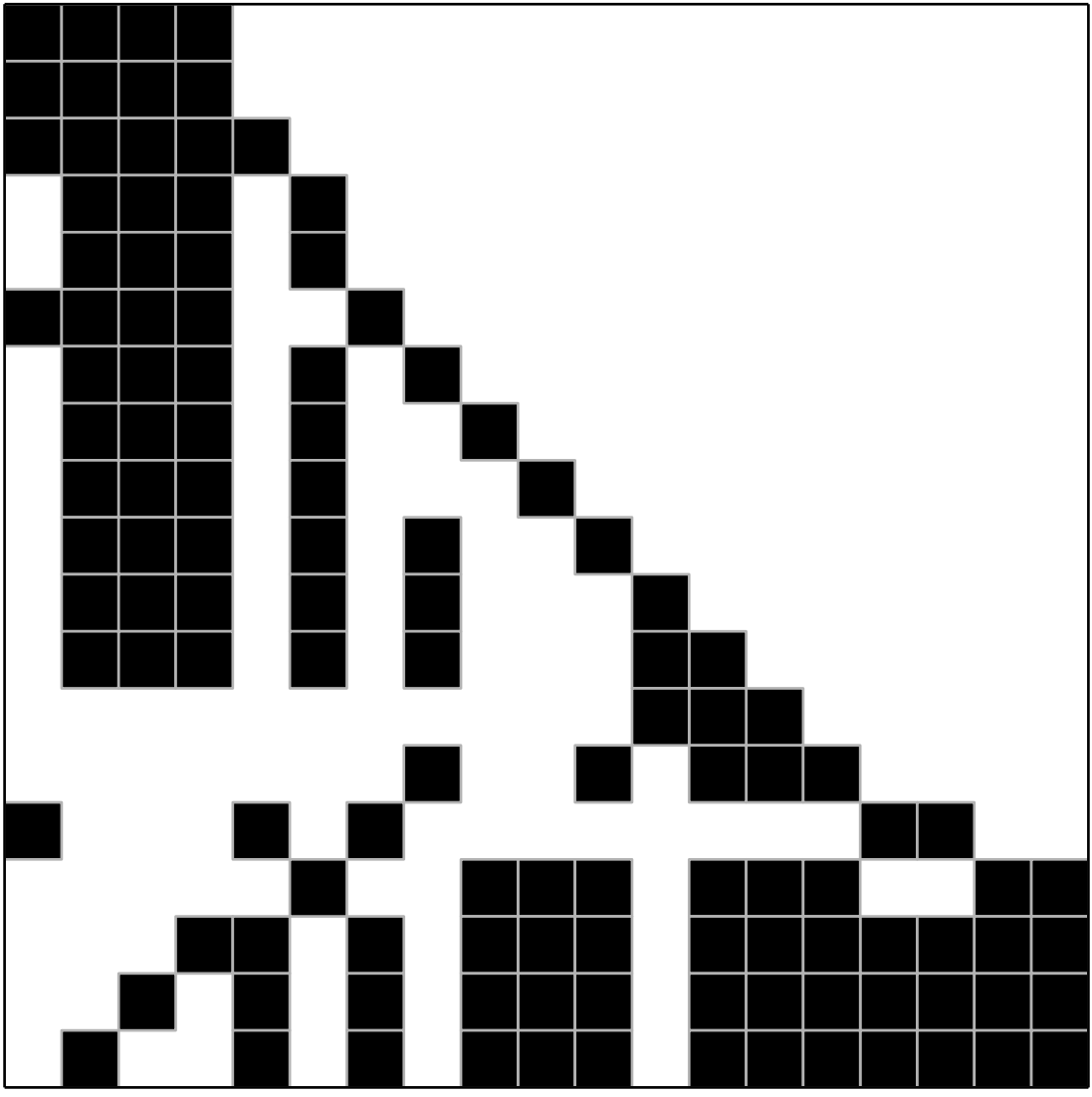



lib2_lewispol-RE, cost: 5, diff: 5, explored: 165, time: 0.03s

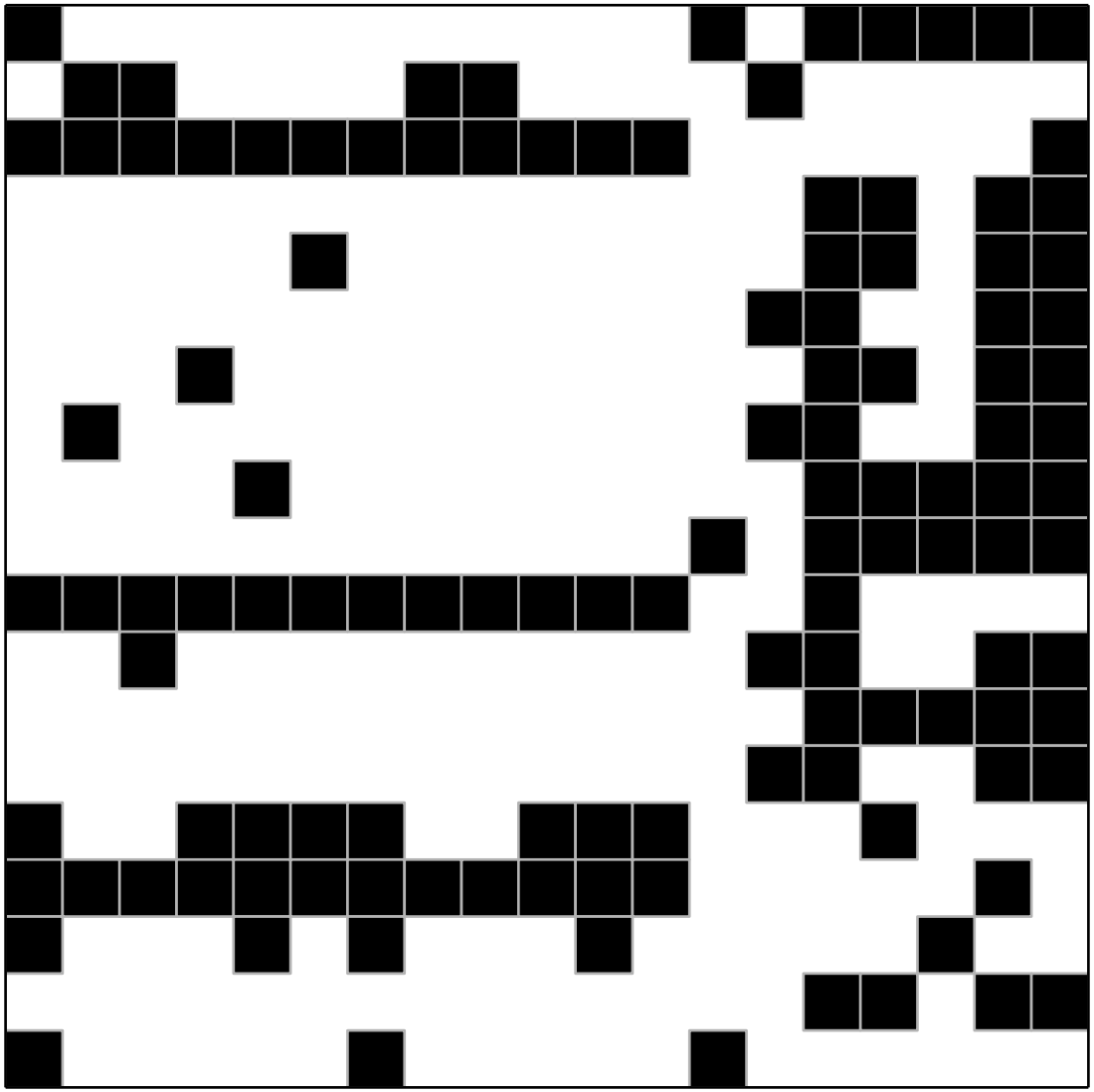
lib2_lotschd-00 19x19 (121) con: 7, var: 12

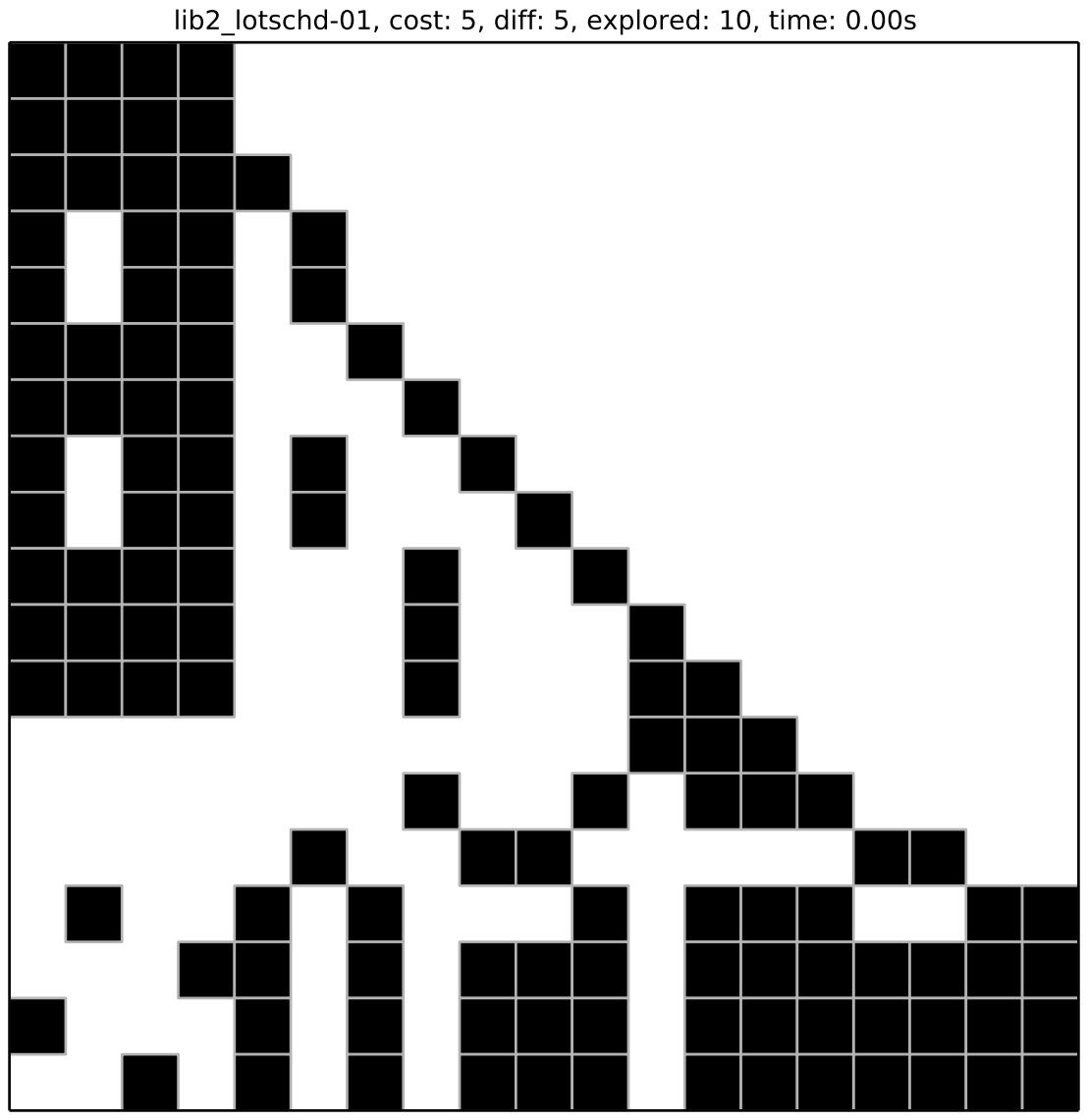


lib2_lotschd-00, cost: 5, diff: 5, explored: 10, time: 0.00s



lib2_lotschd-01 19x19 (121) con: 7, var: 12

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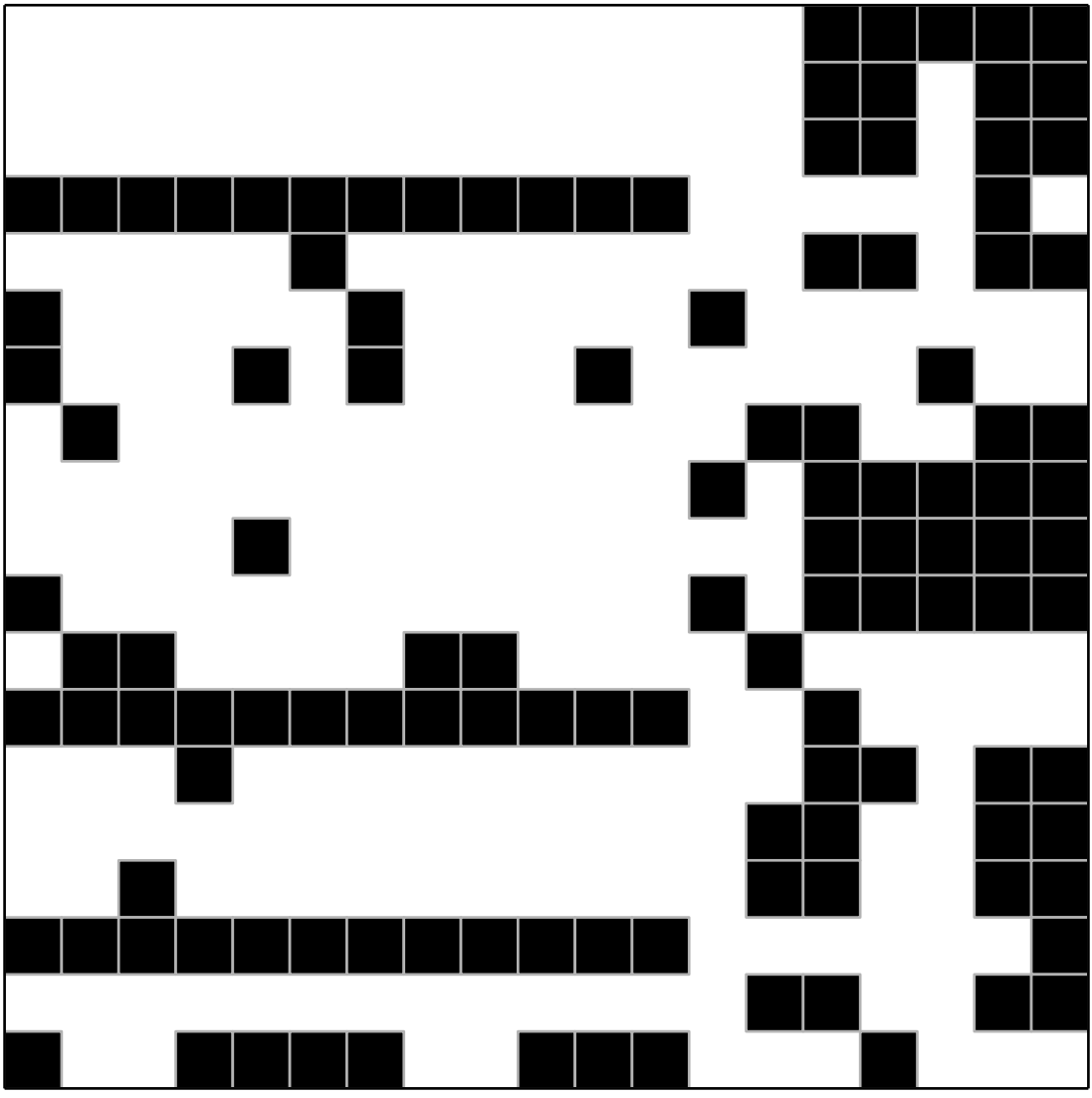
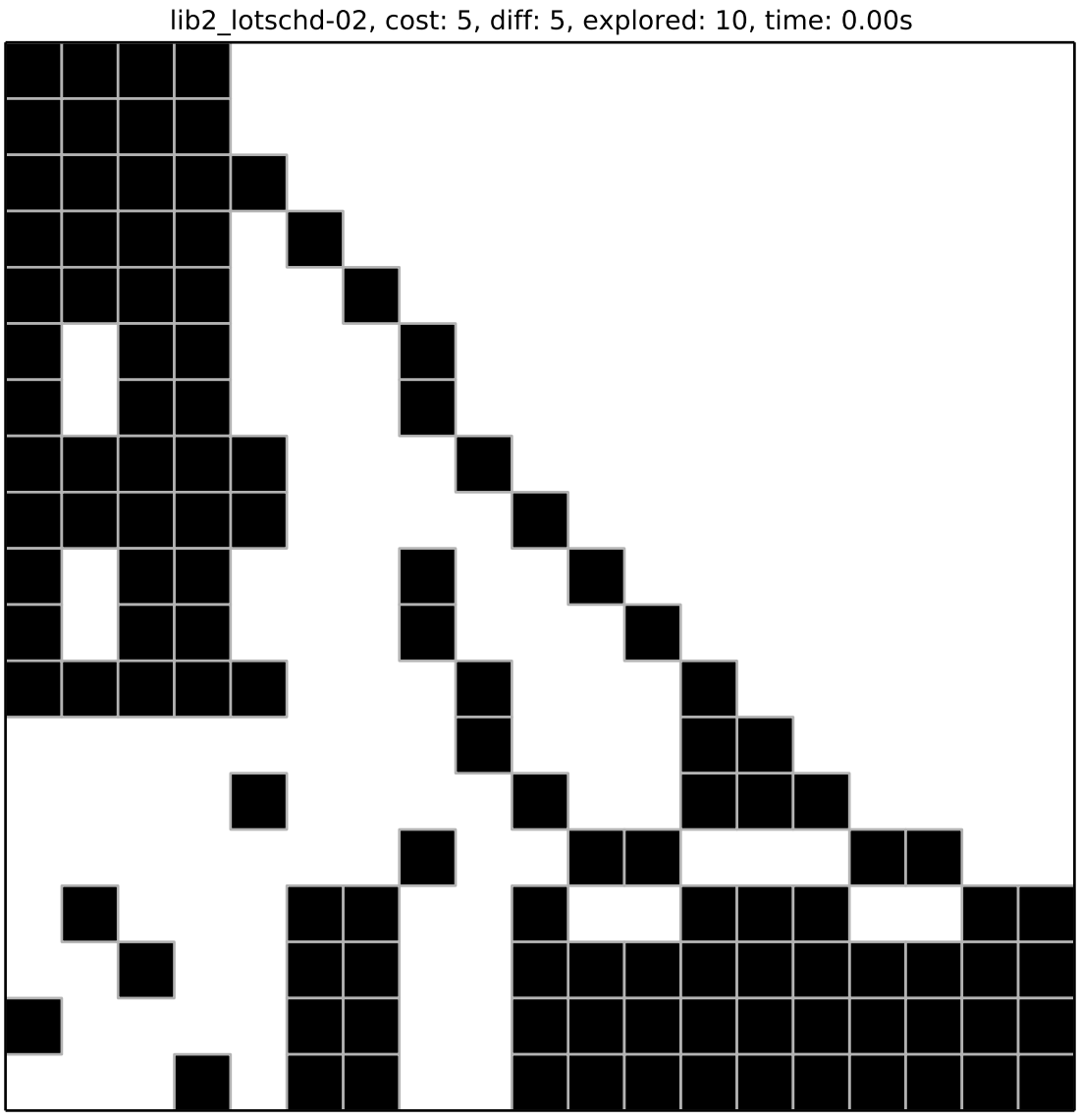
lib2_lotschd-02 19x19 (121) con: 7, var: 12

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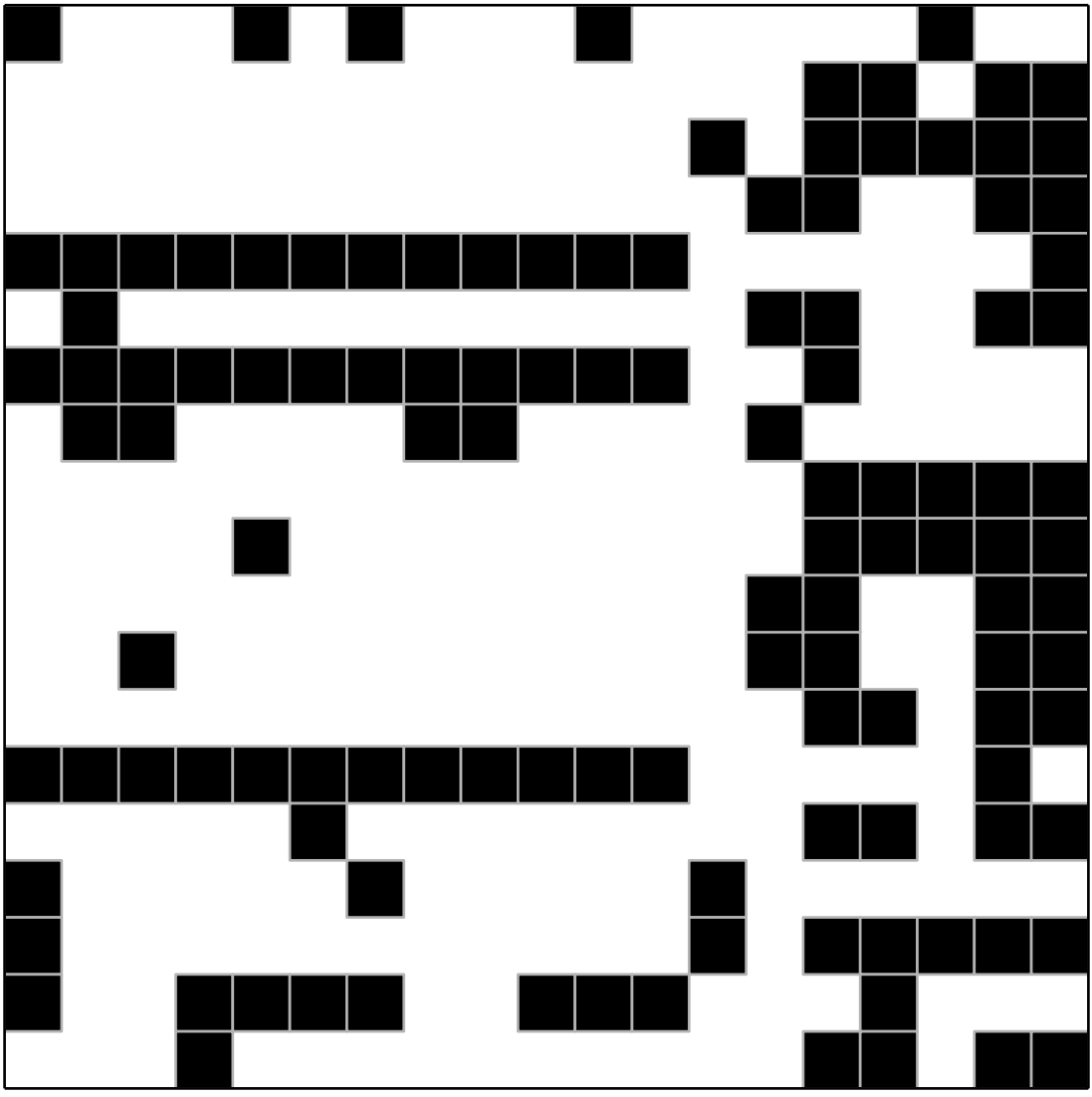
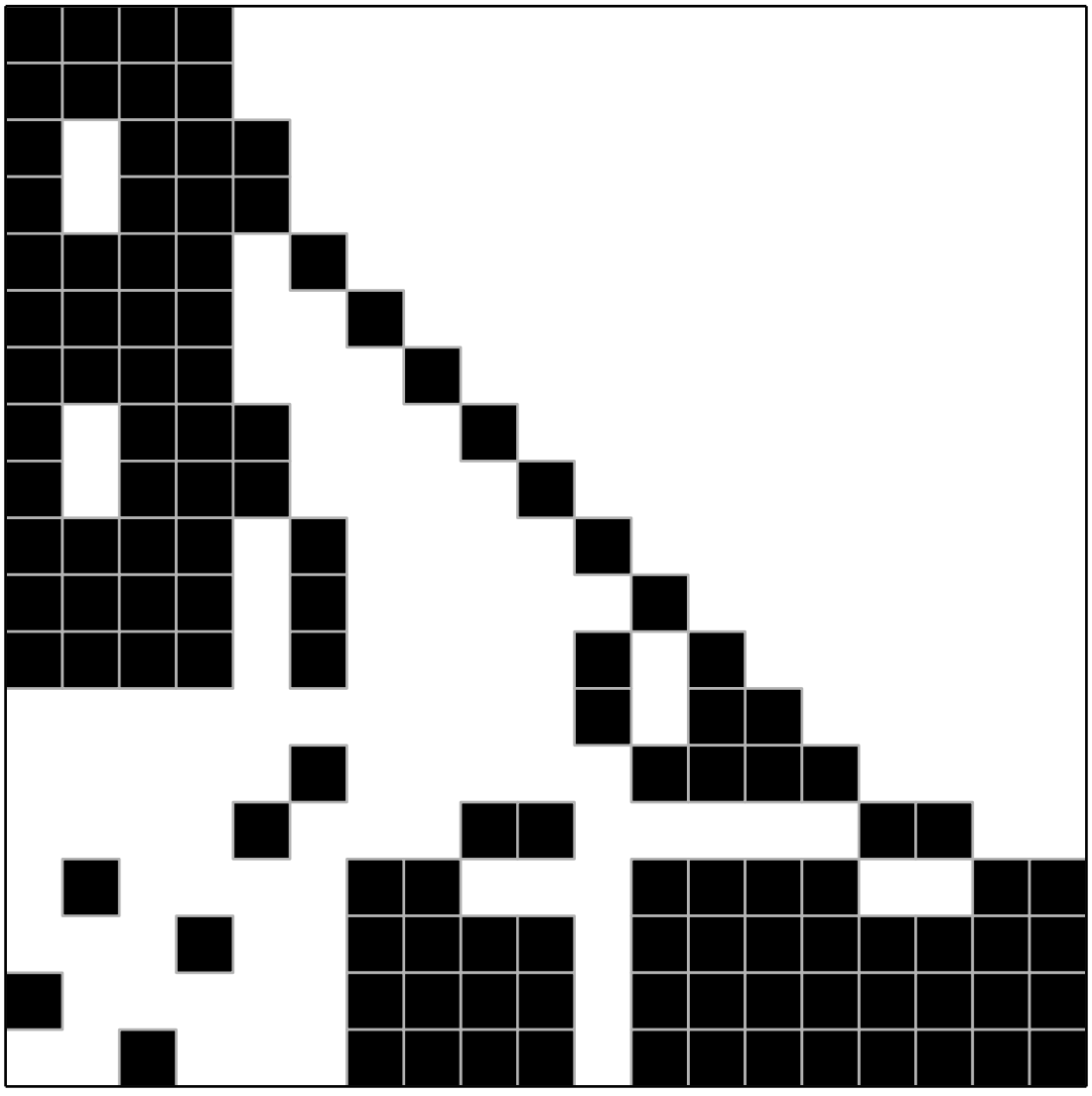
lib2_lotschd-03 19x19 (121) con: 7, var: 12

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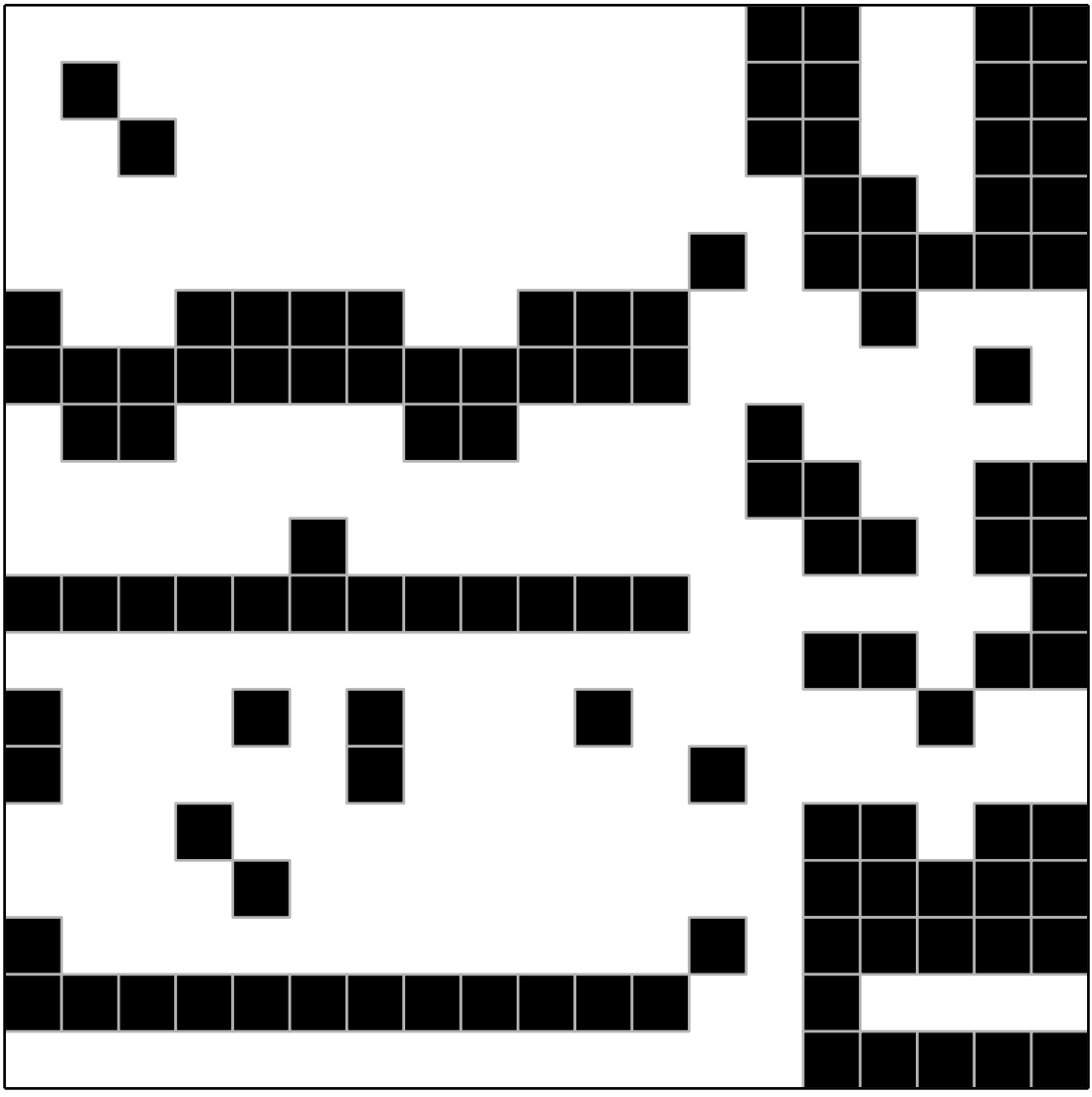
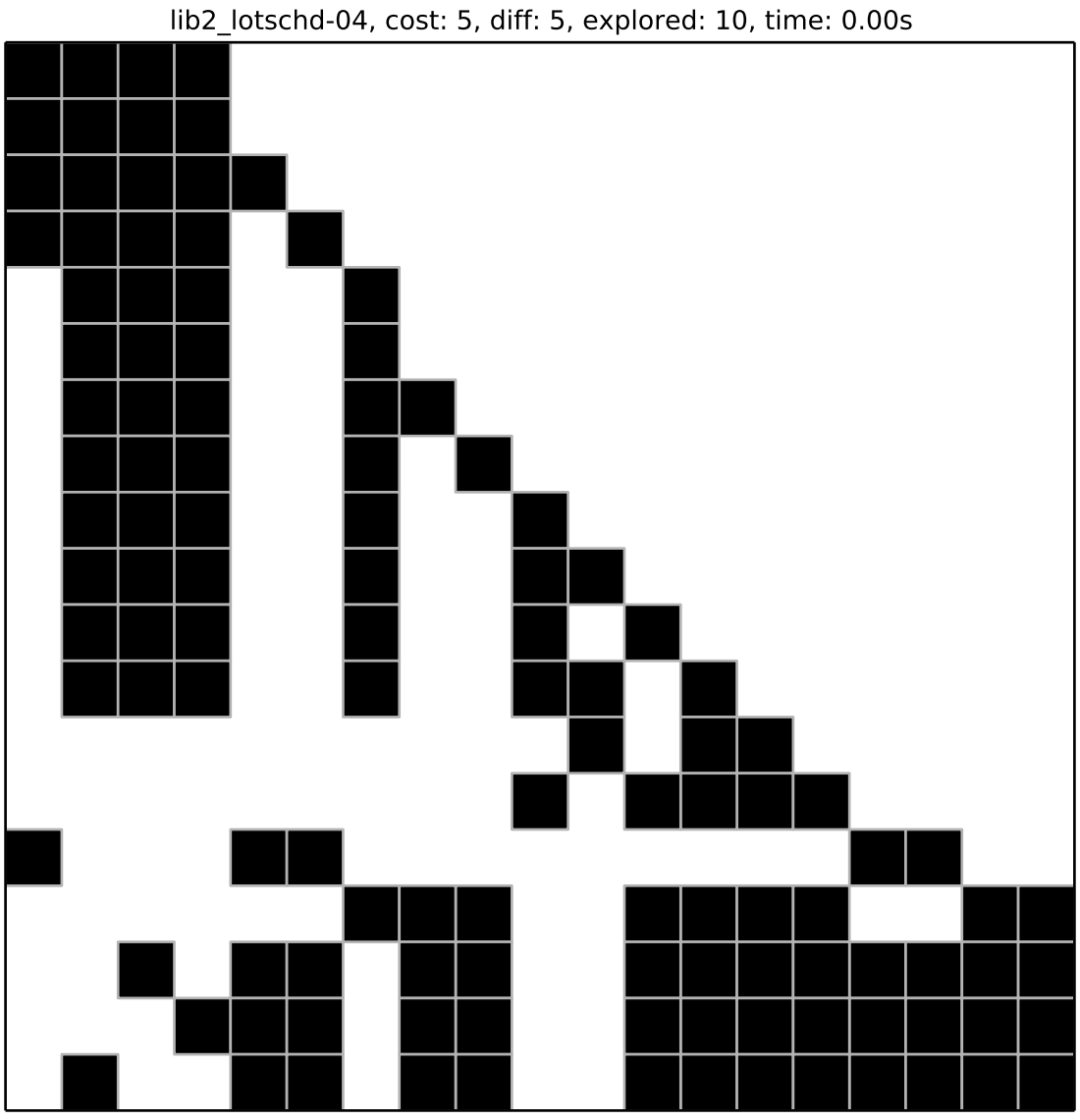
lib2_lotschd-04 19x19 (121) con: 7, var: 12

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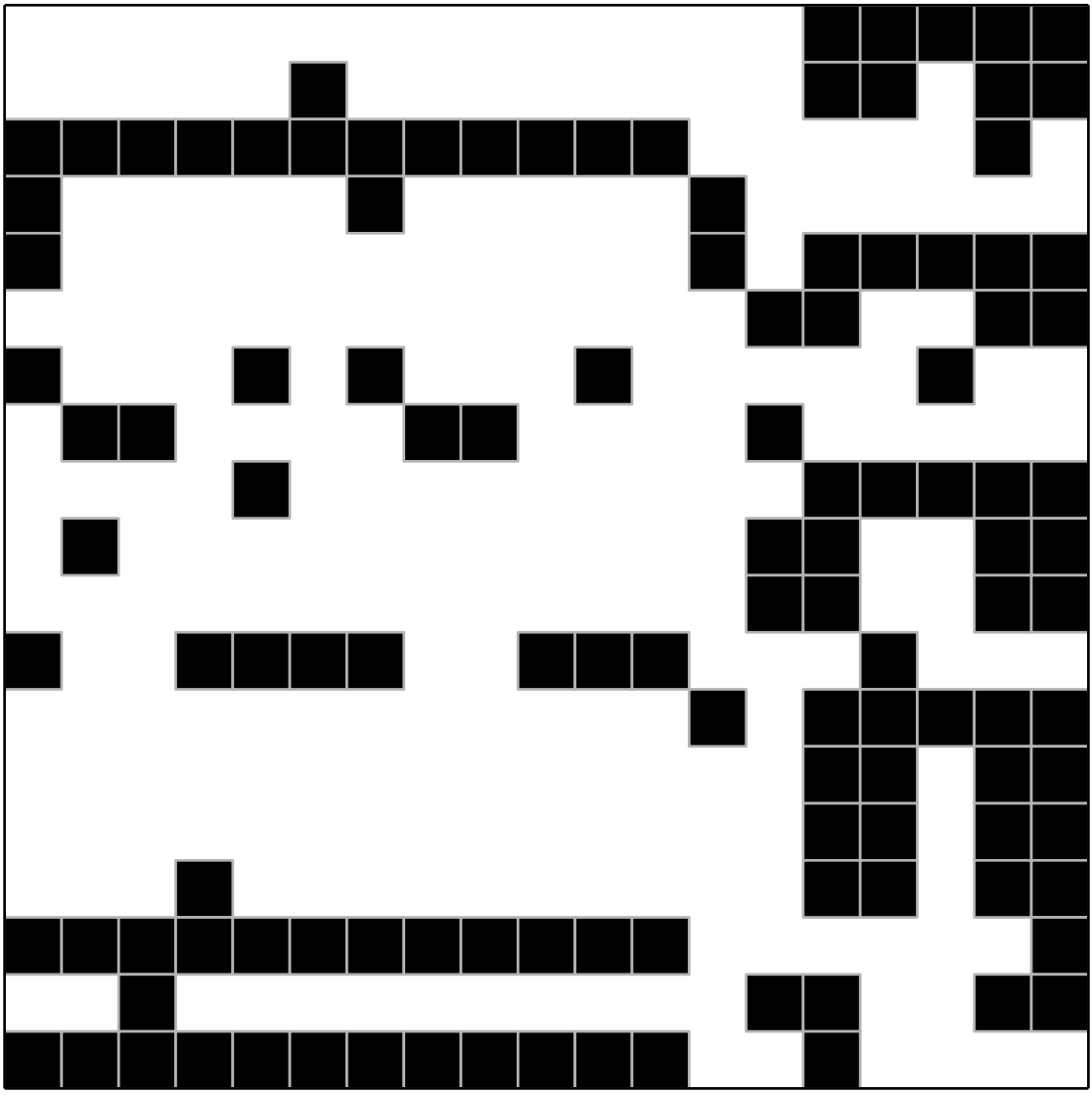
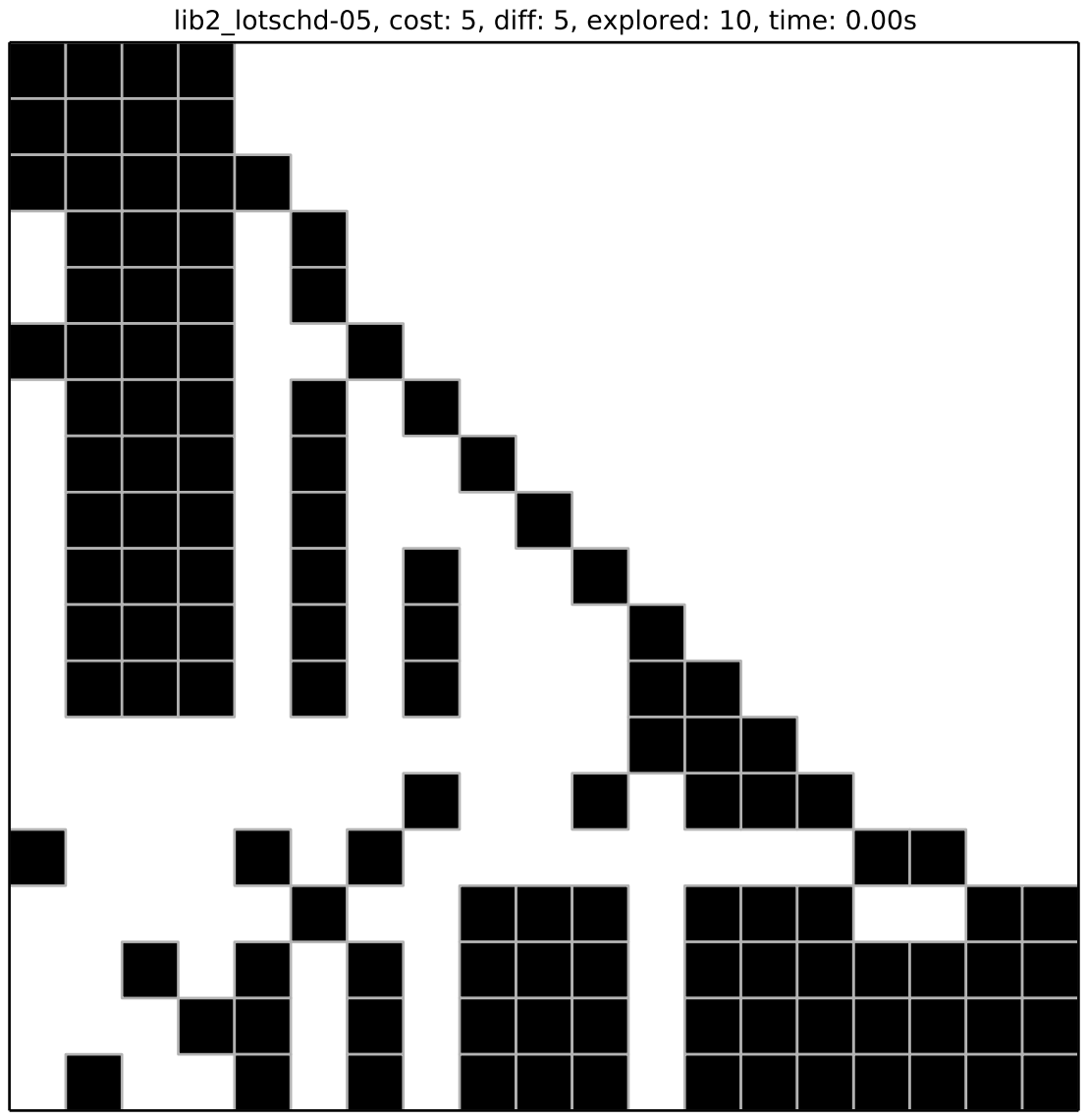
lib2_lotschd-05 19x19 (121) con: 7, var: 12

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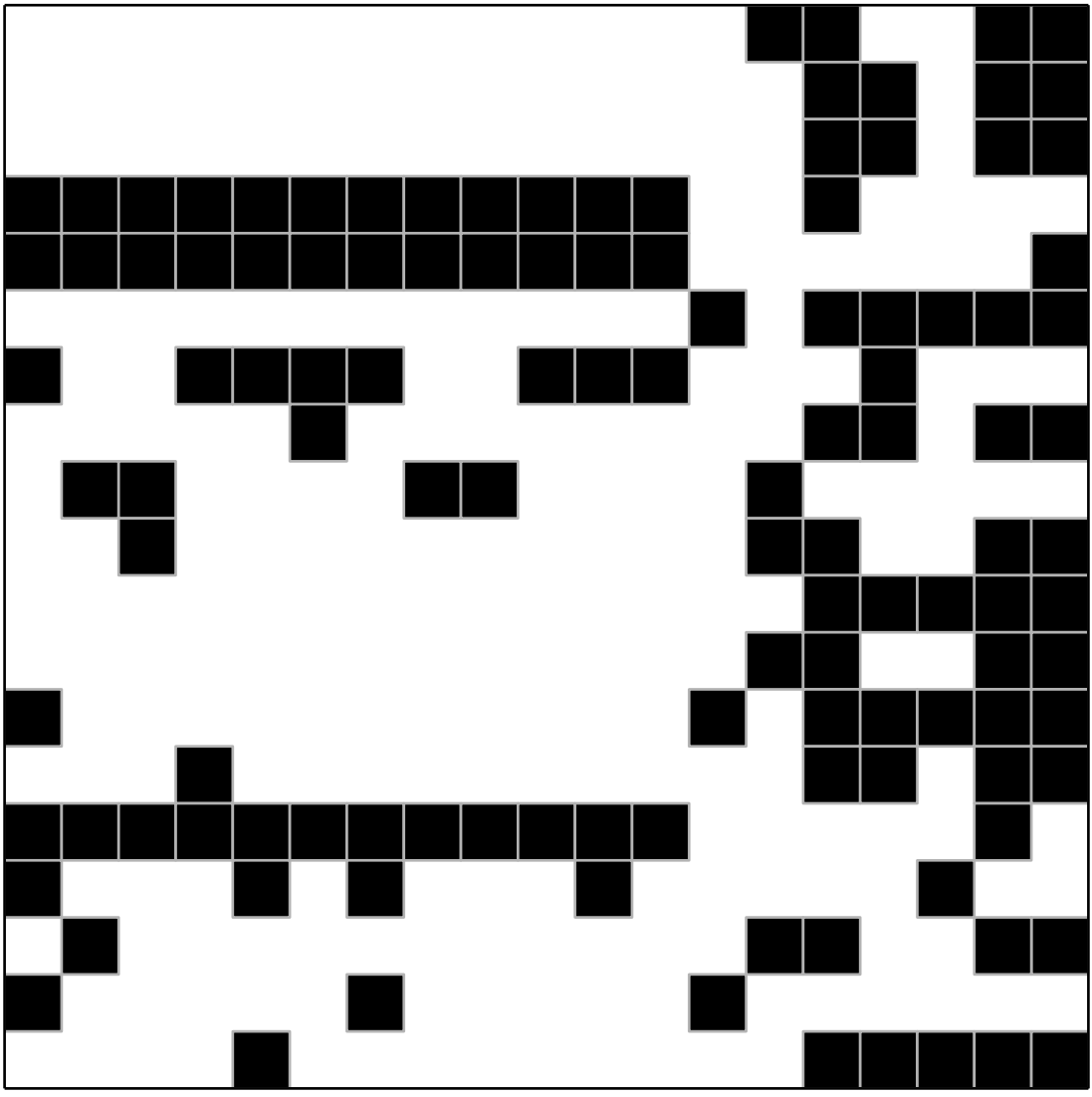
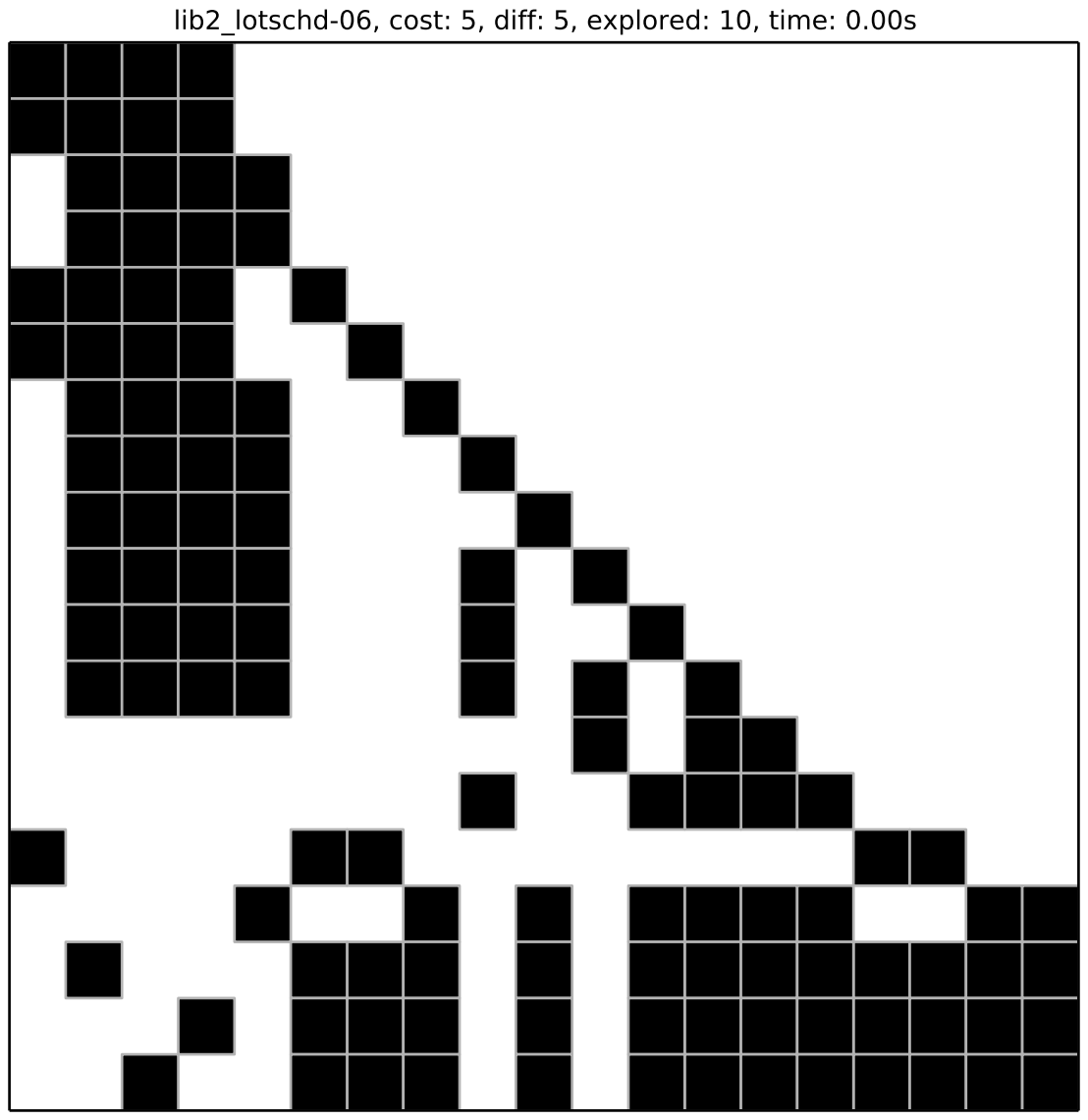
lib2_lotschd-06 19x19 (121) con: 7, var: 12

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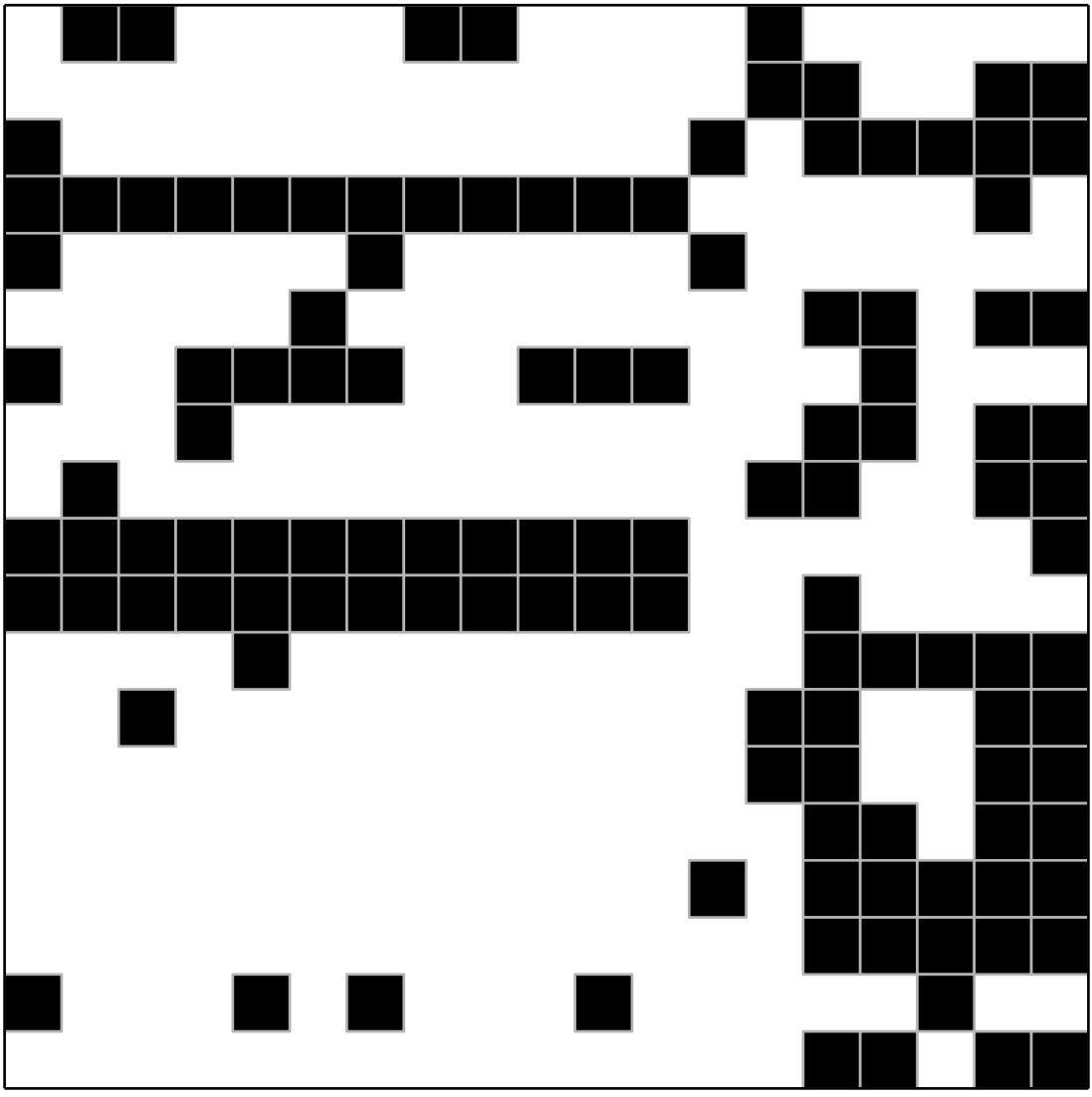
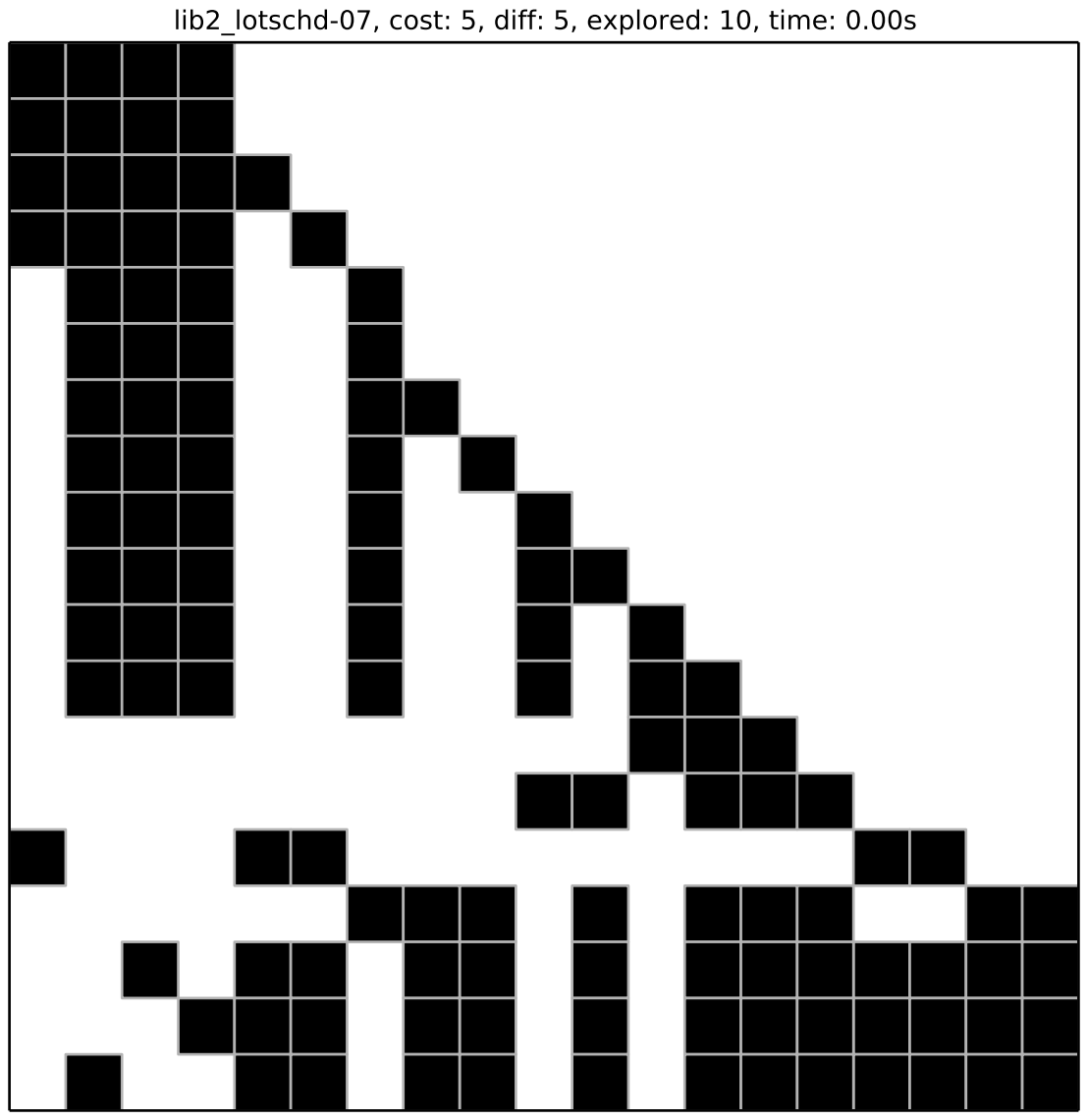
lib2_lotschd-07 19x19 (121) con: 7, var: 12

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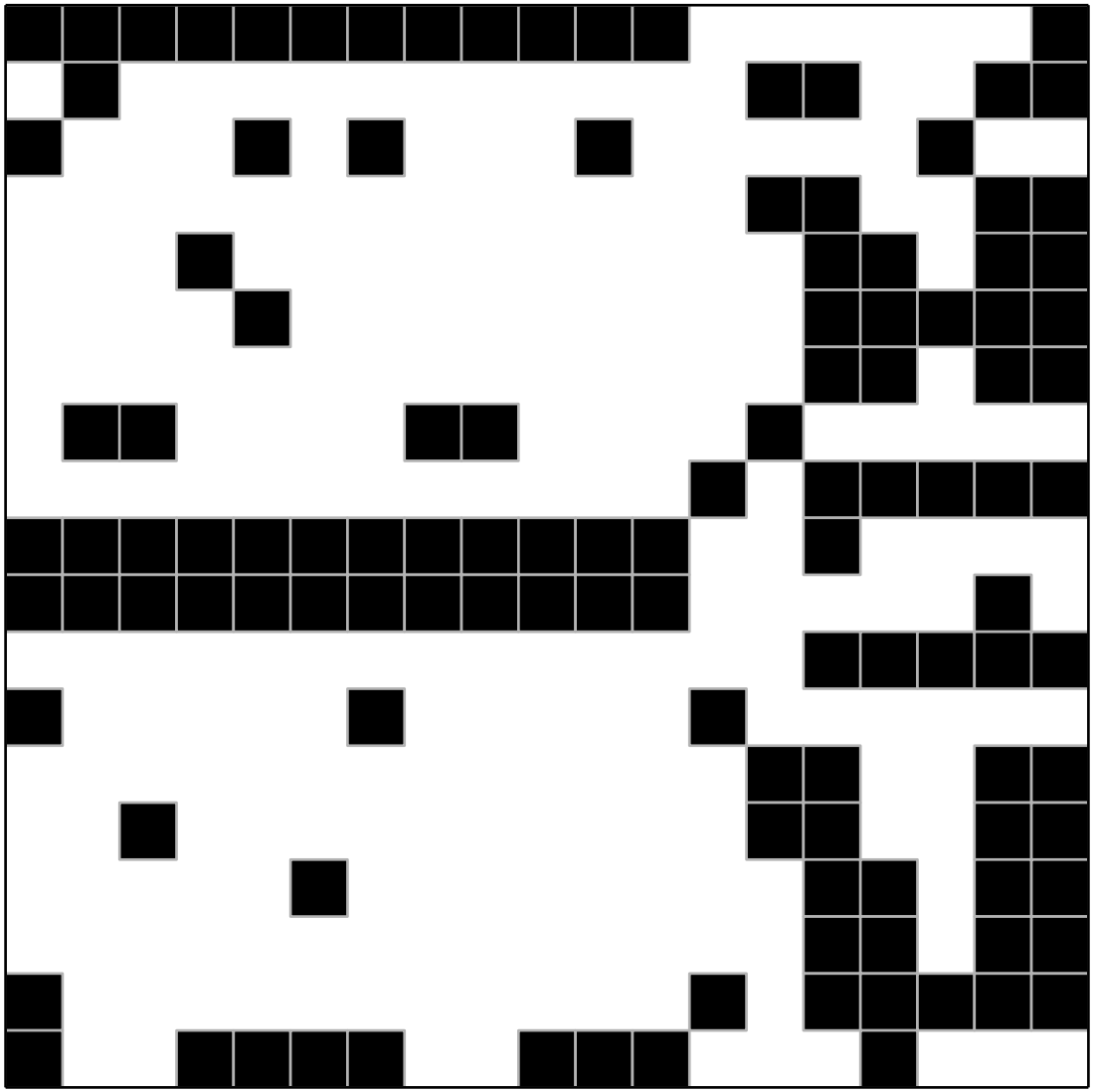
lib2_lotschd-08 19x19 (121) con: 7, var: 12



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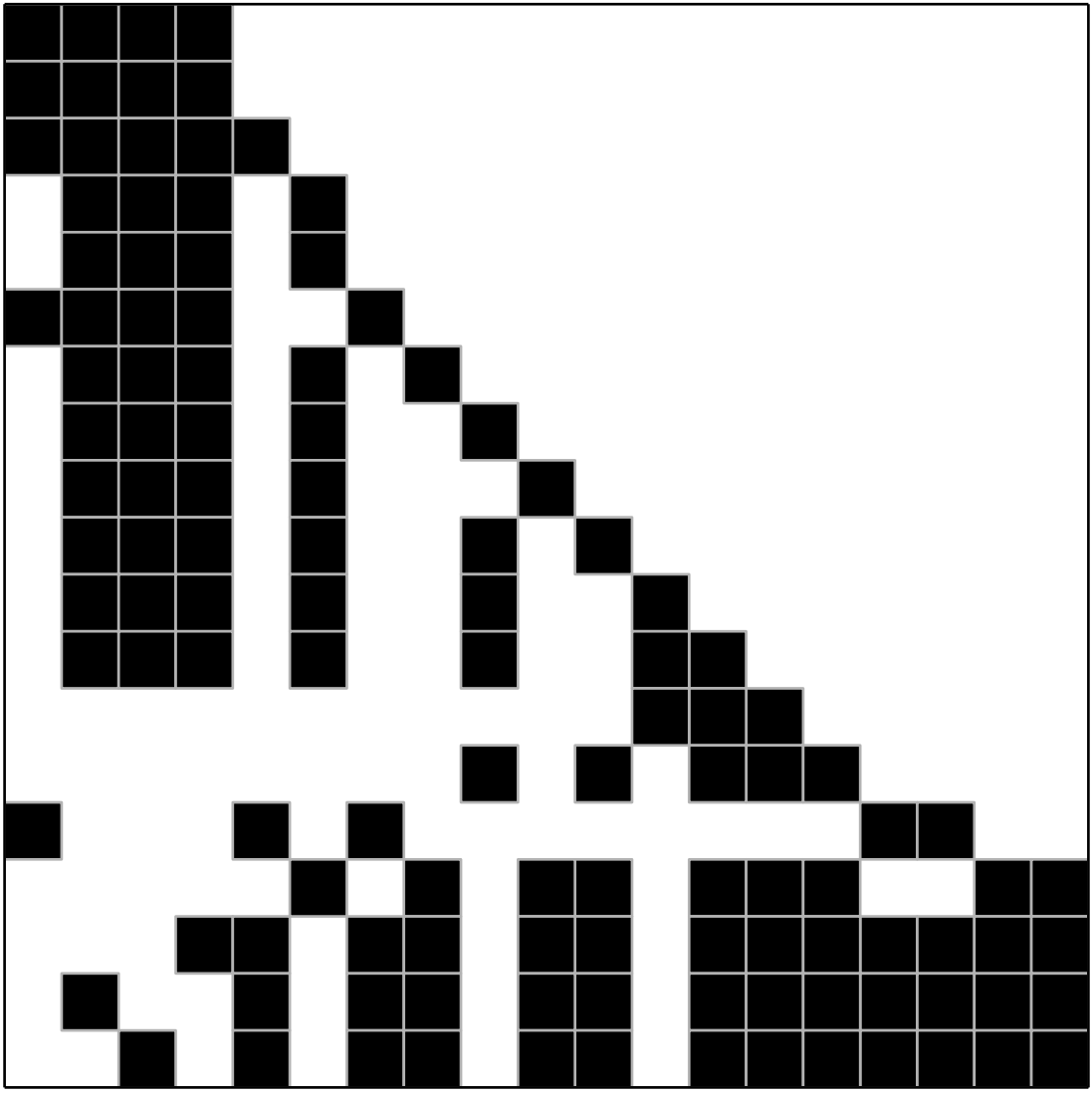
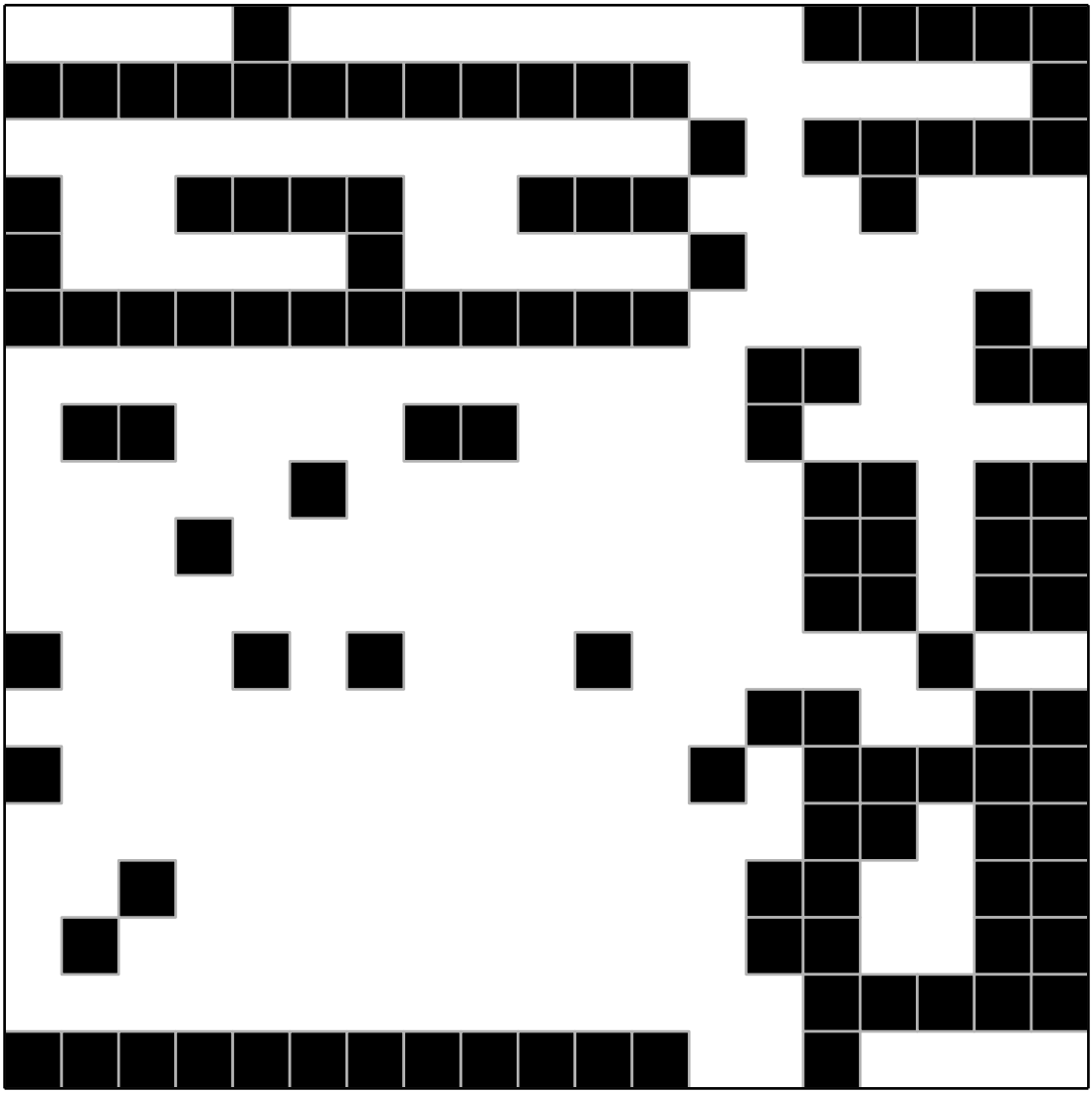


lib2_lotschd-09 19x19 (121) con: 7, var: 12



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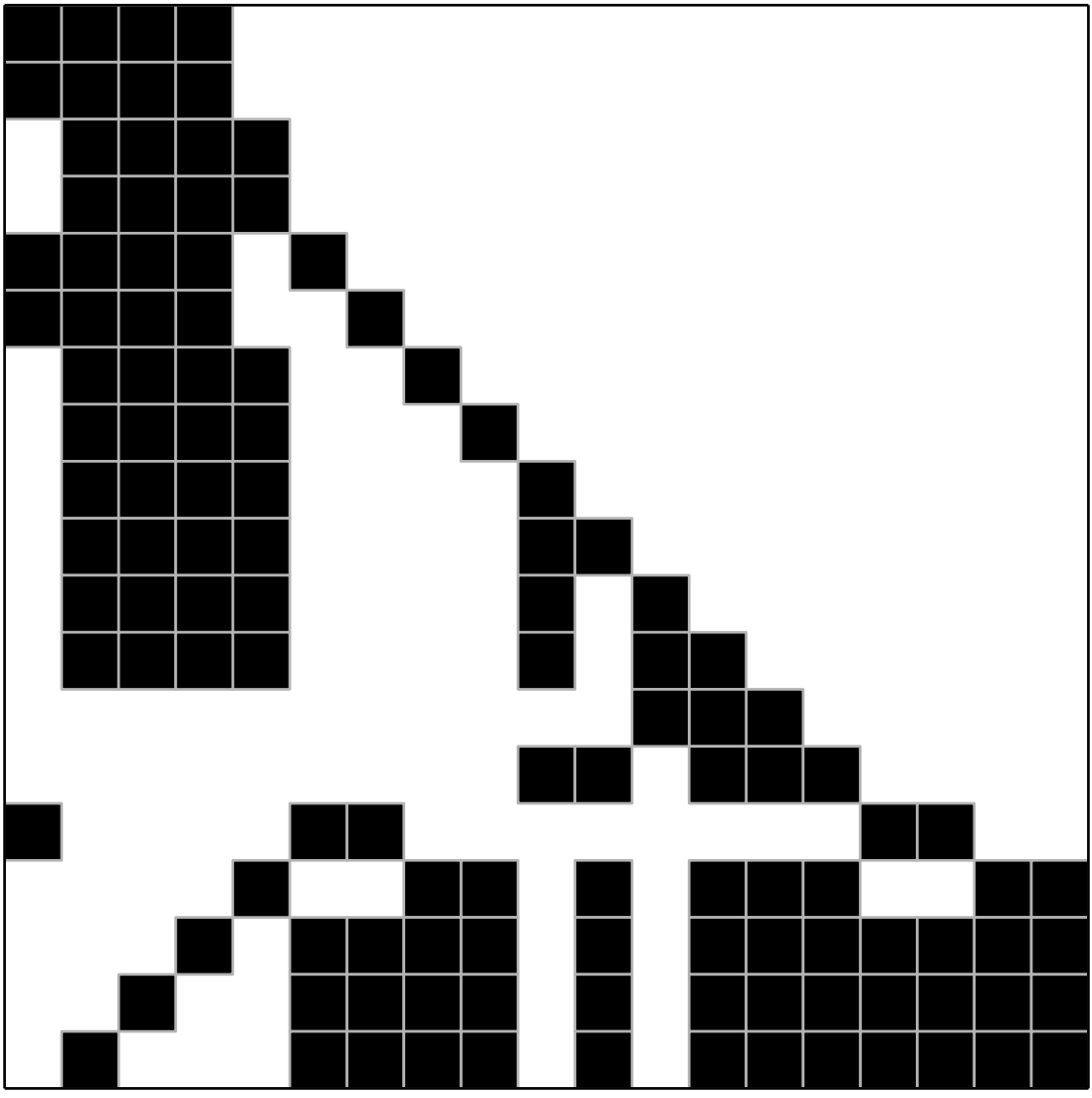
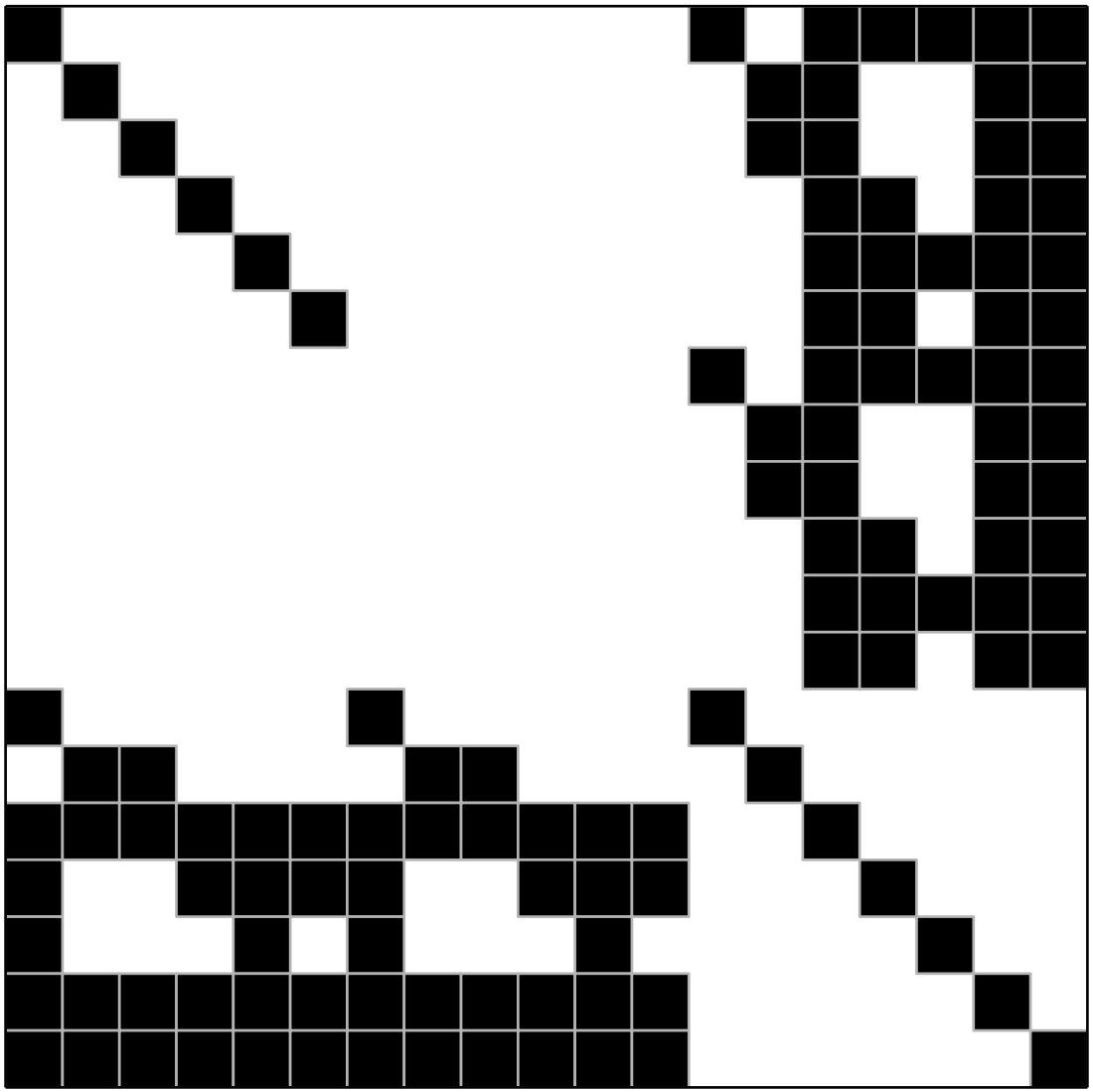
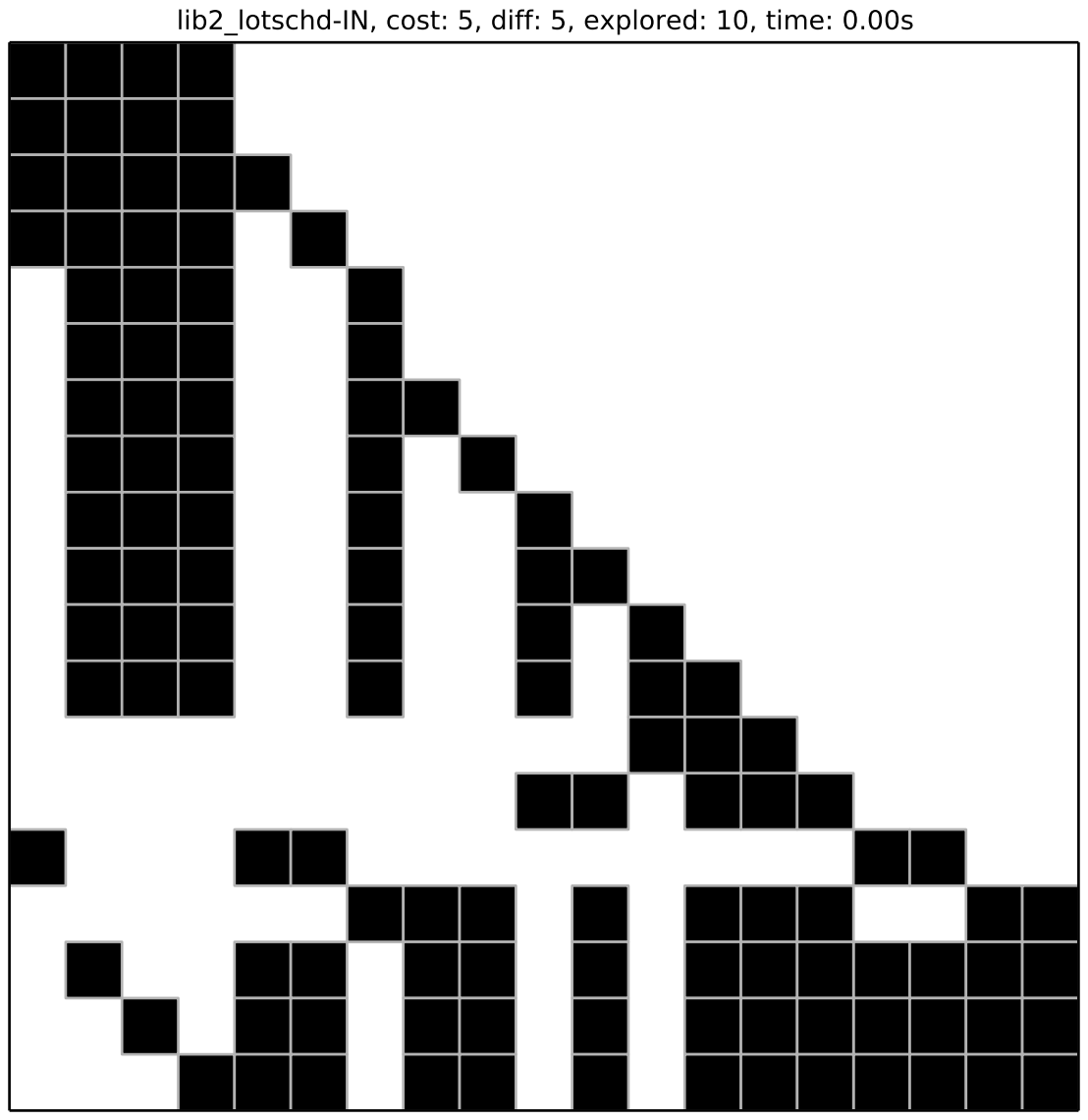



lib2_lotschd-IN 19x19 (121) con: 7, var: 12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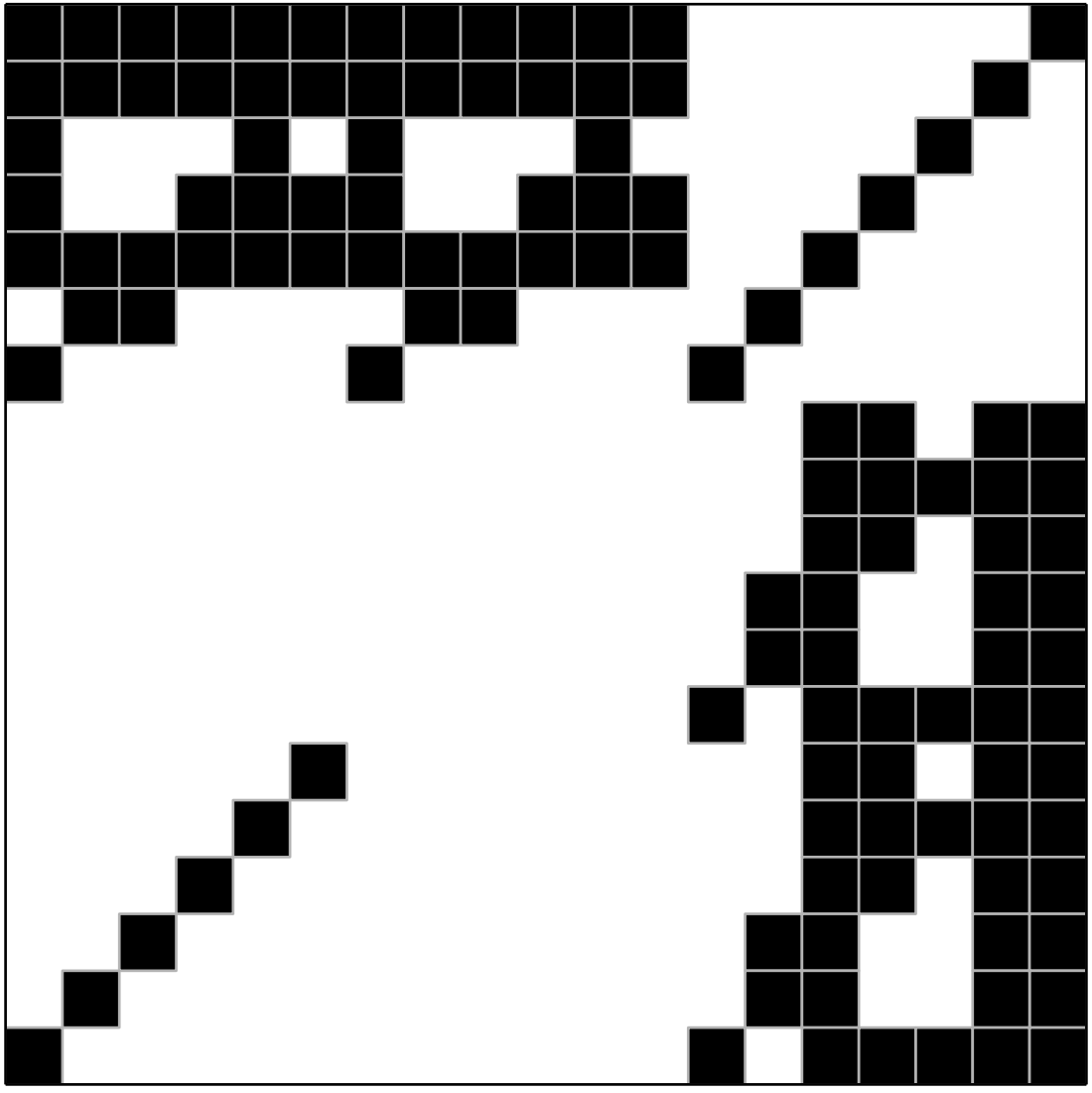
lib2_lotschd-RE 19x19 (121) con: 7, var: 12



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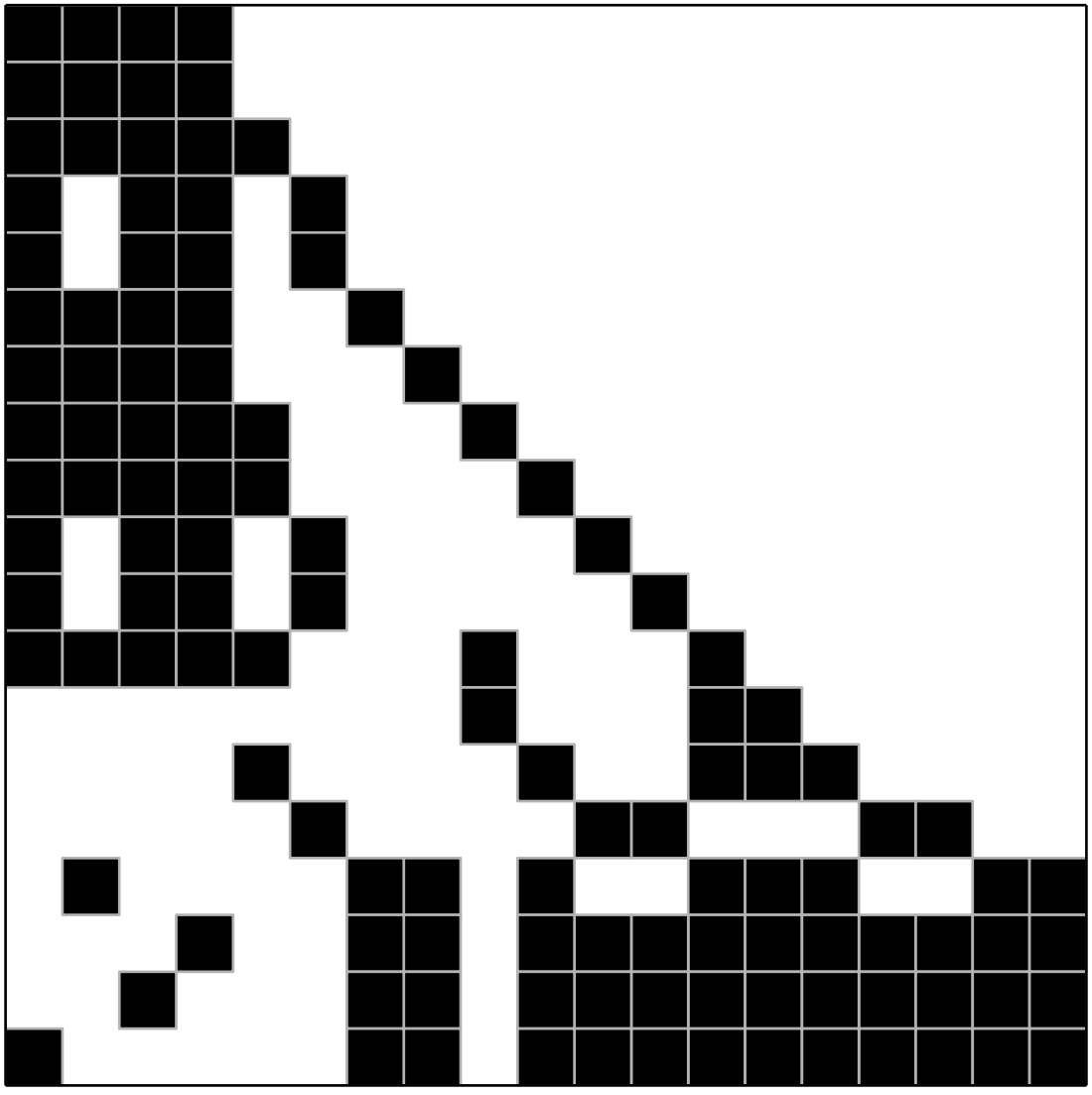
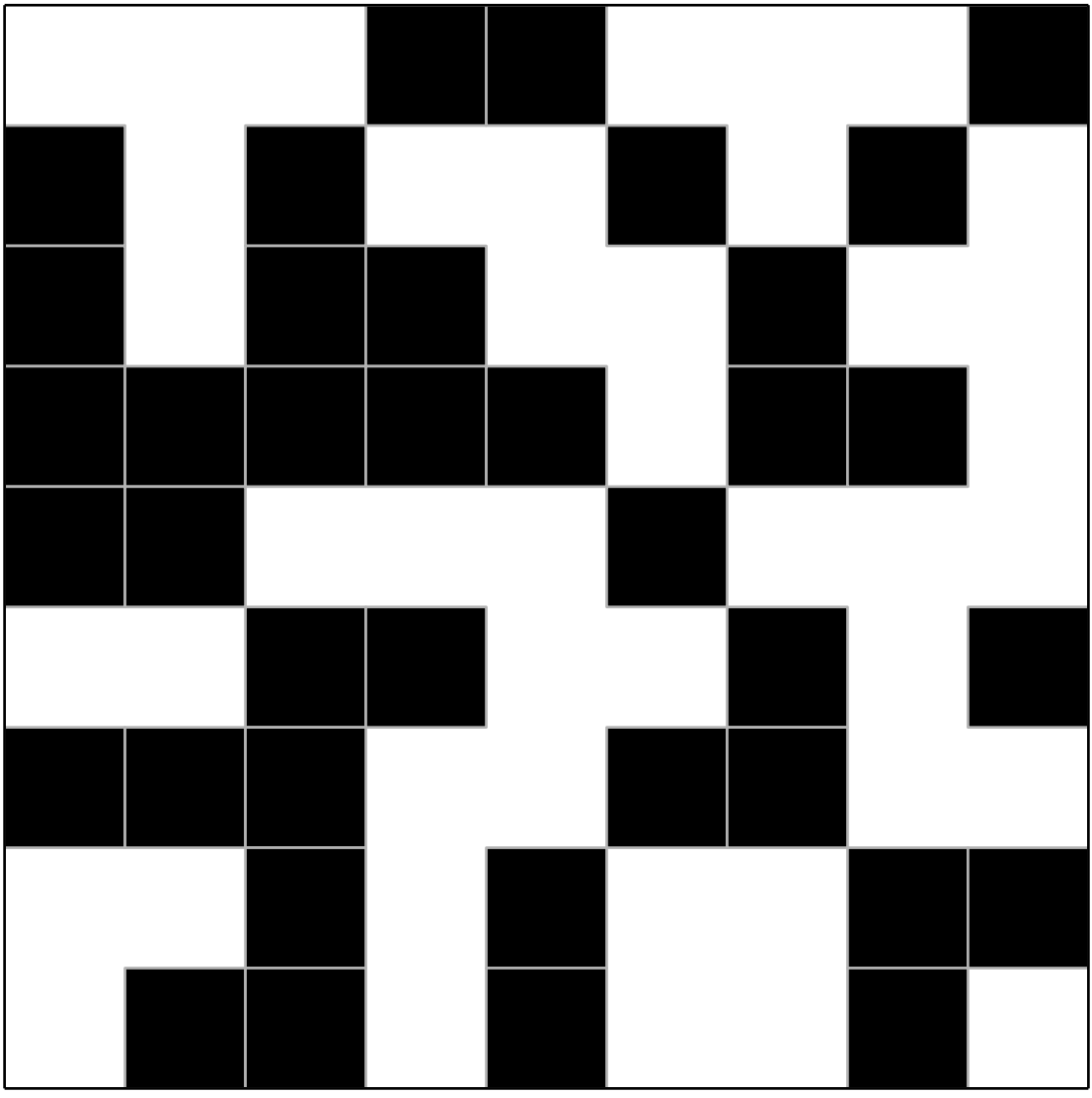
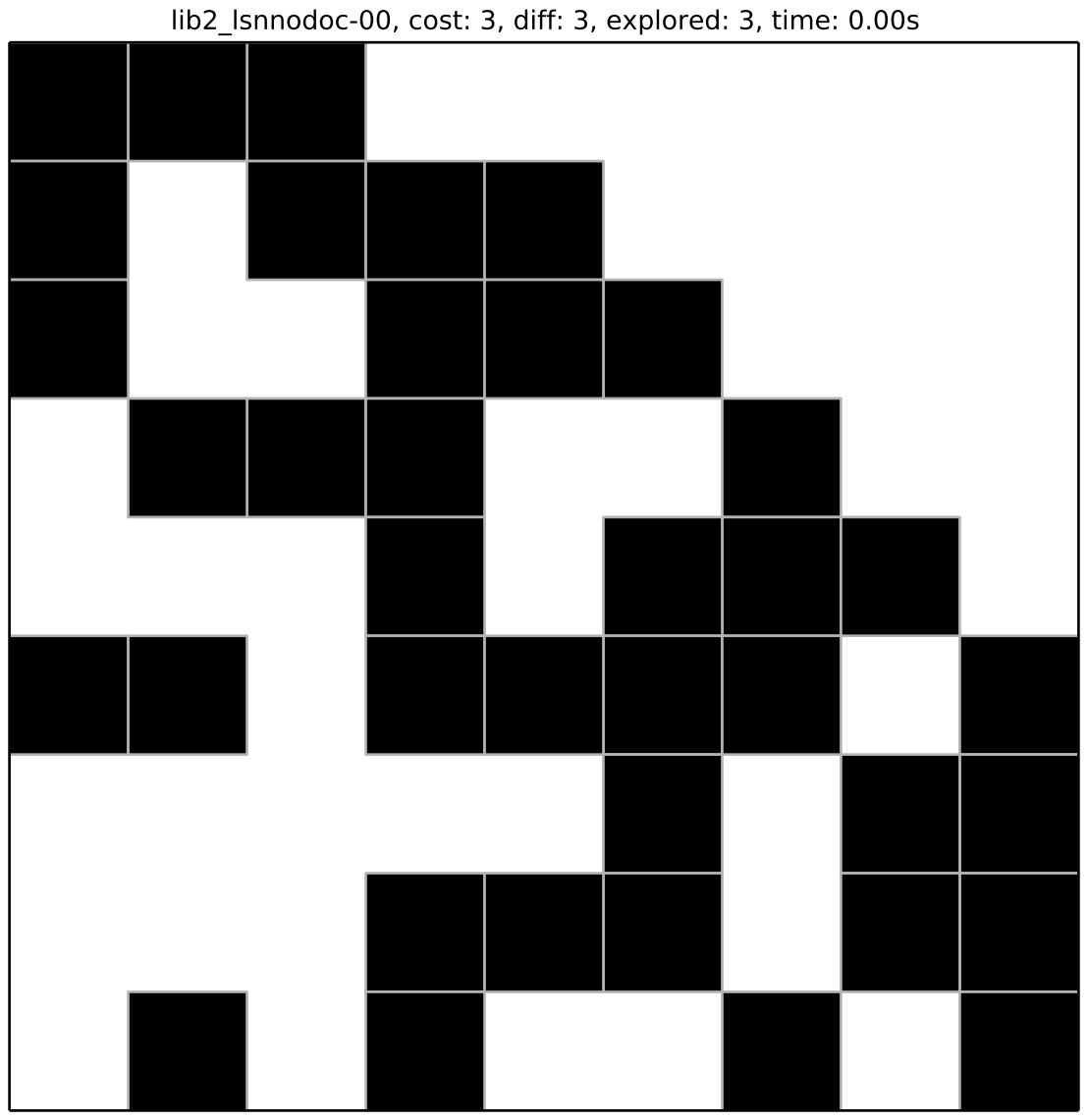


lib2_lsnnodoc-00 9x9 (38) con: 4, var: 5

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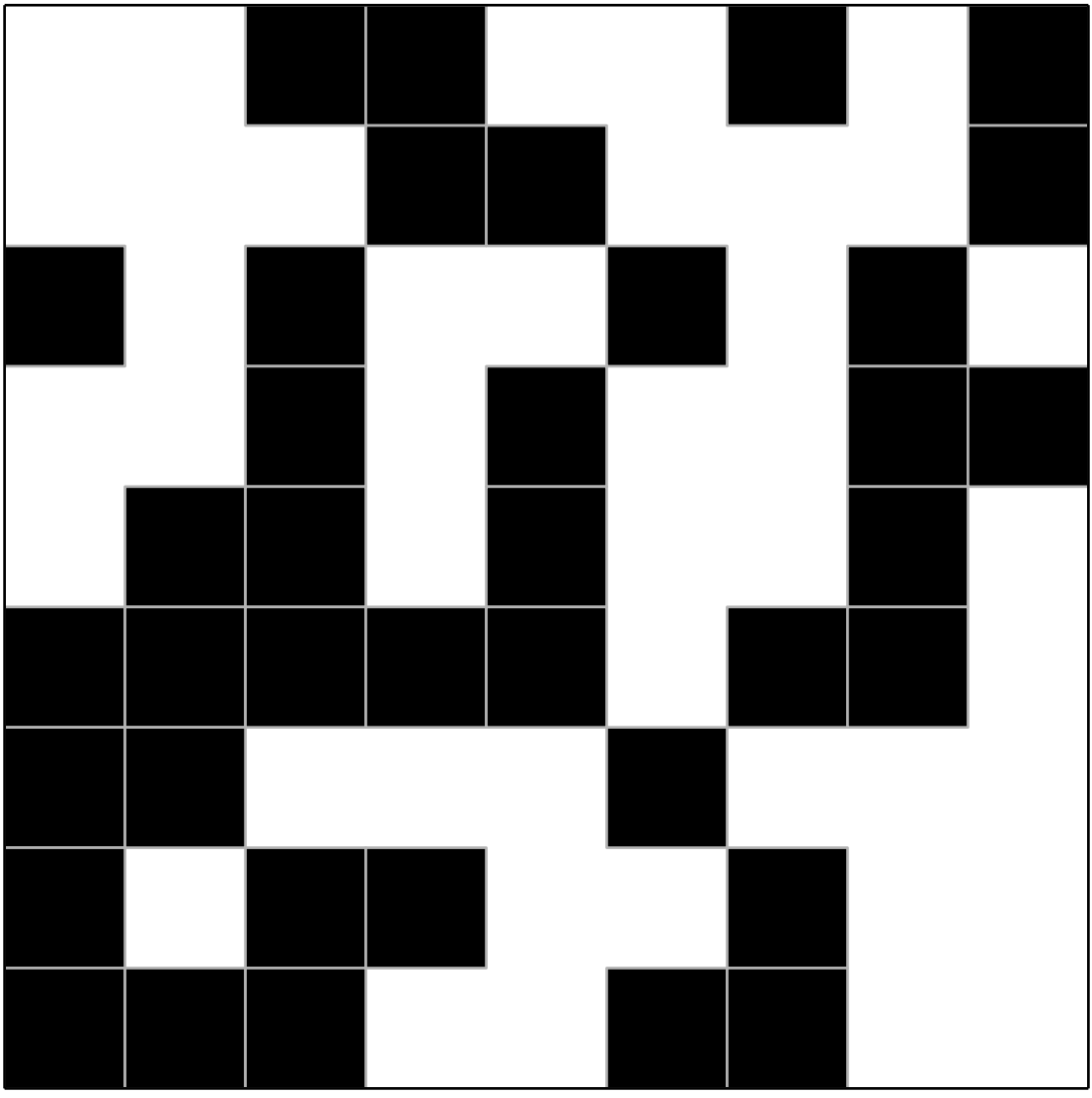
lib2_lsnnodoc-01 9x9 (38) con: 4, var: 5



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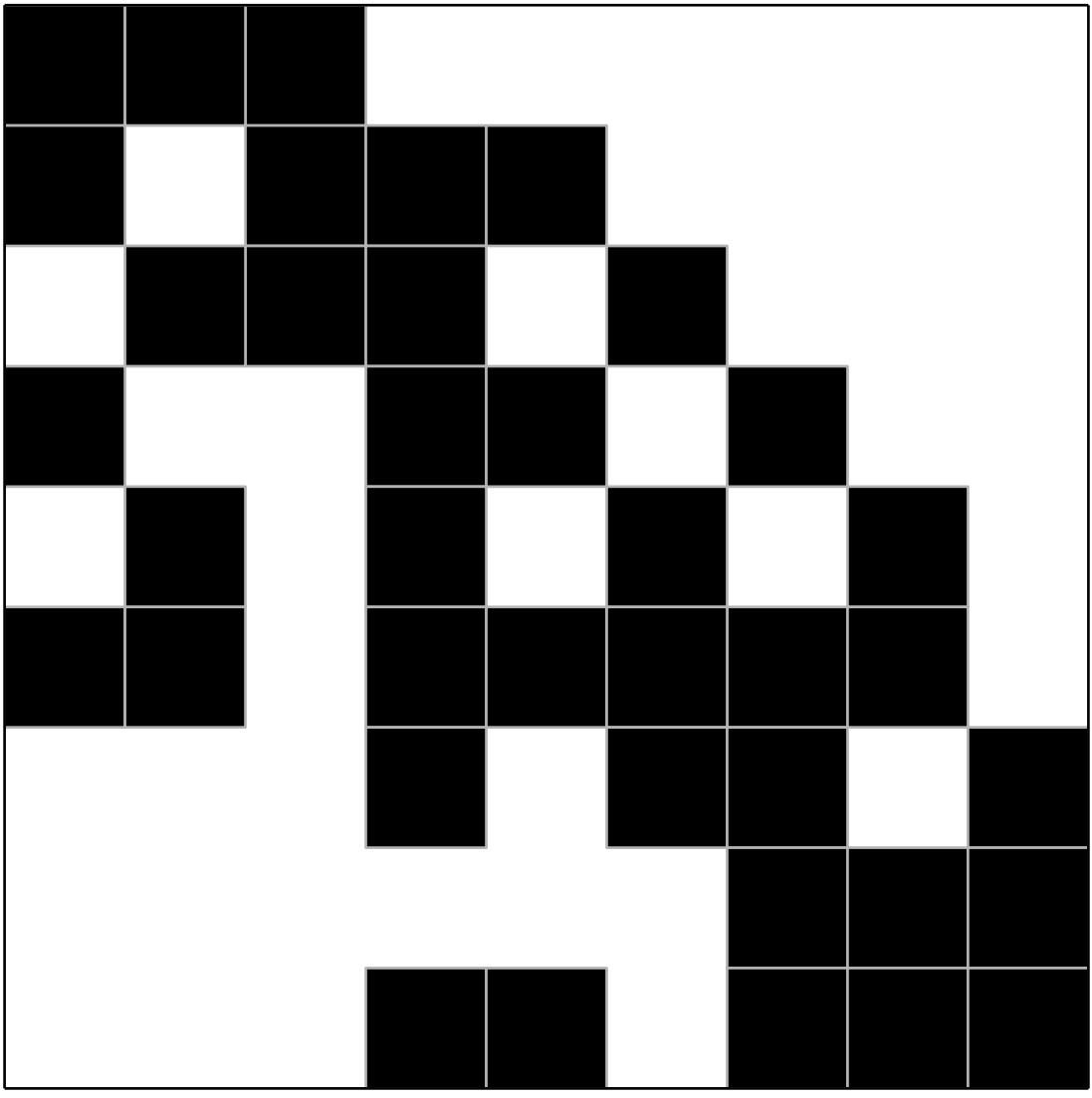

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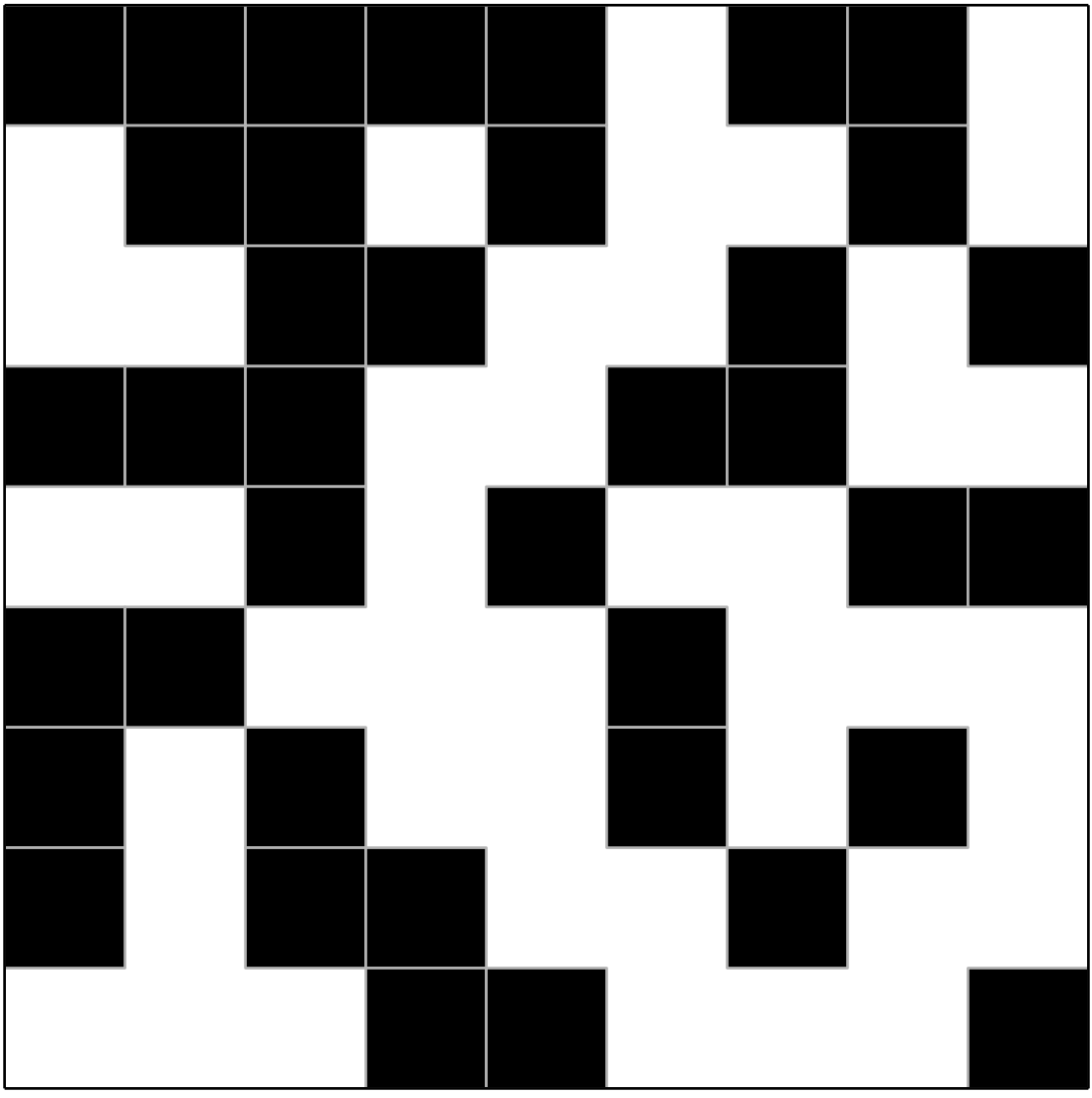

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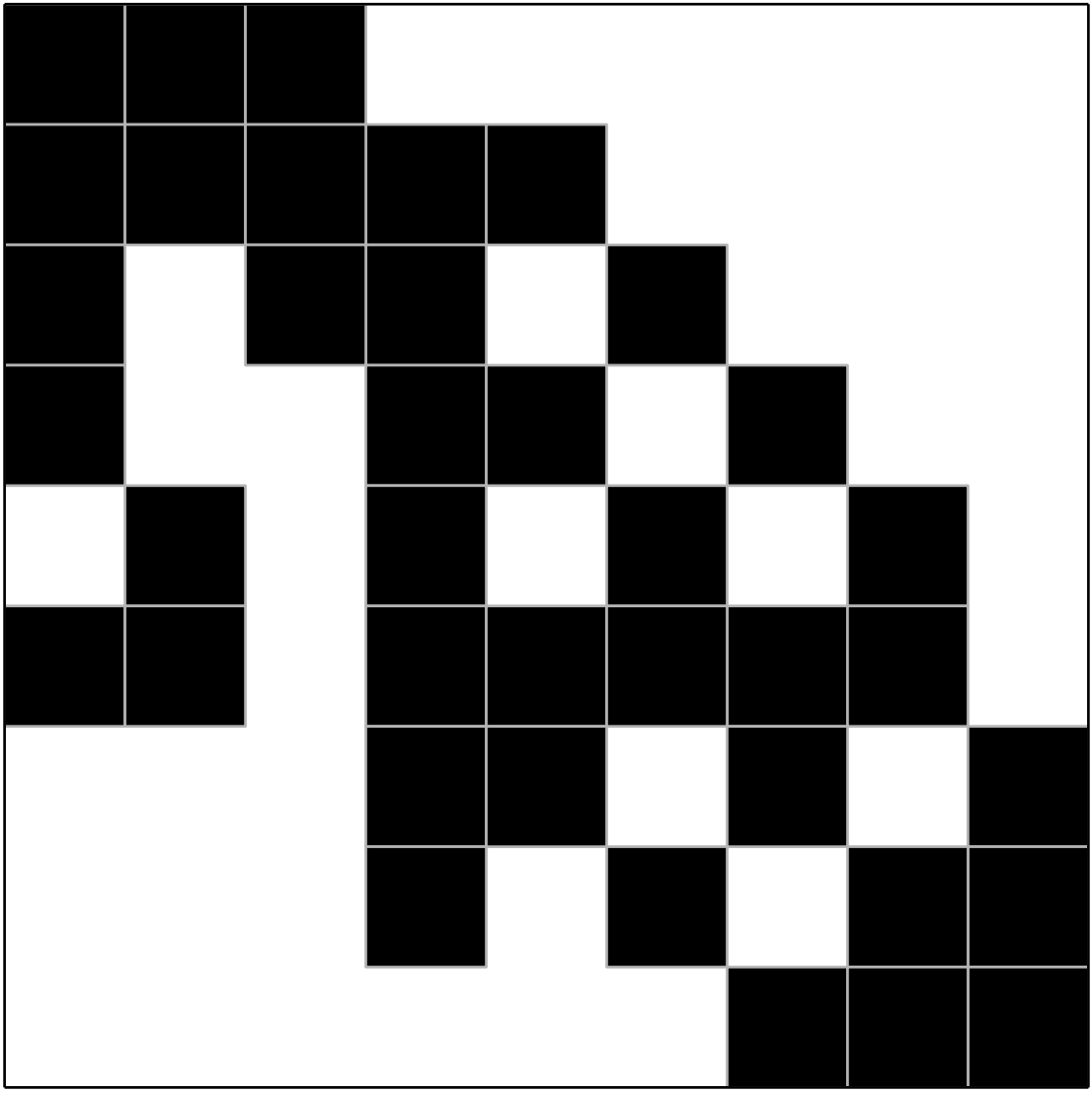

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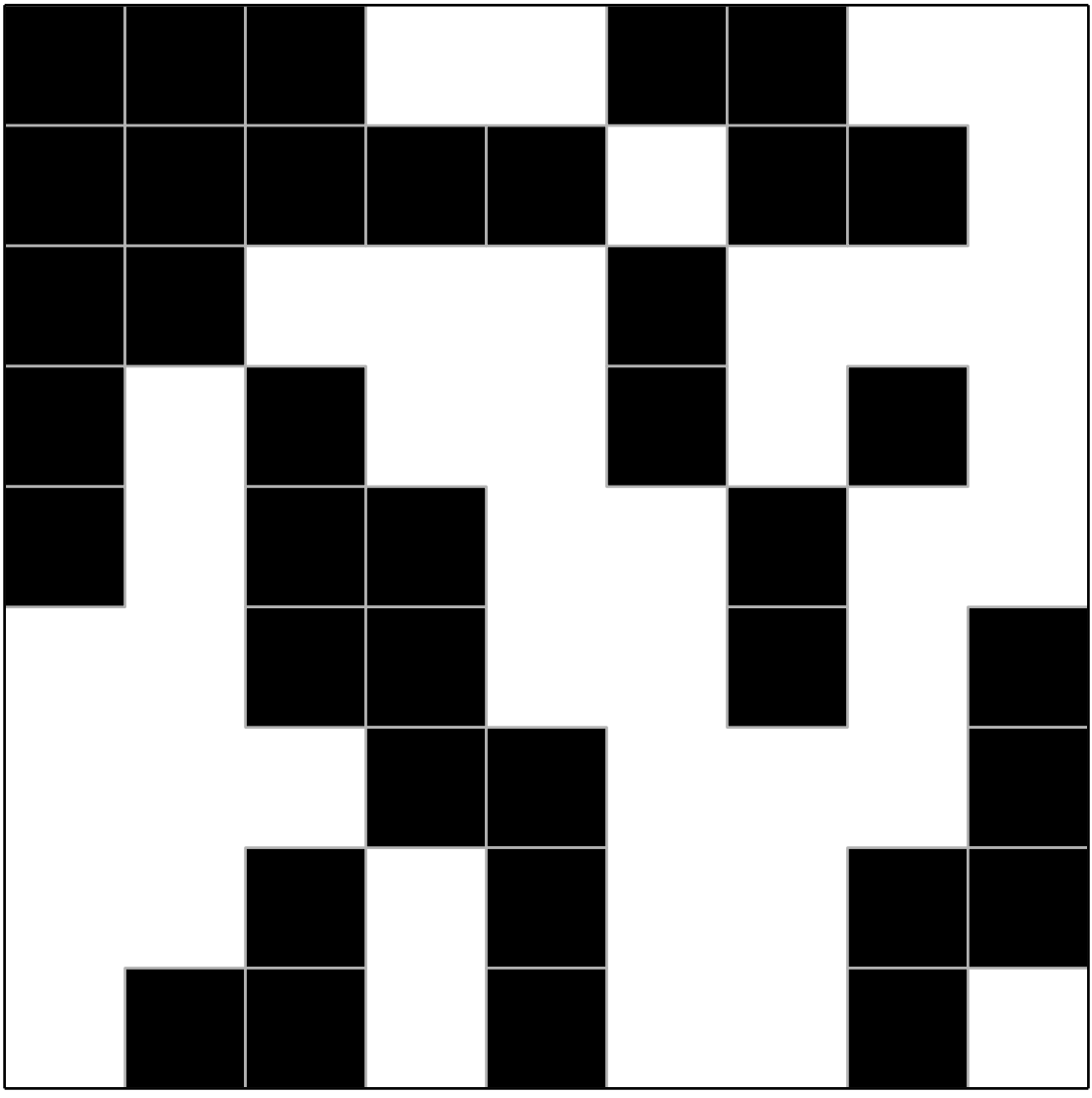

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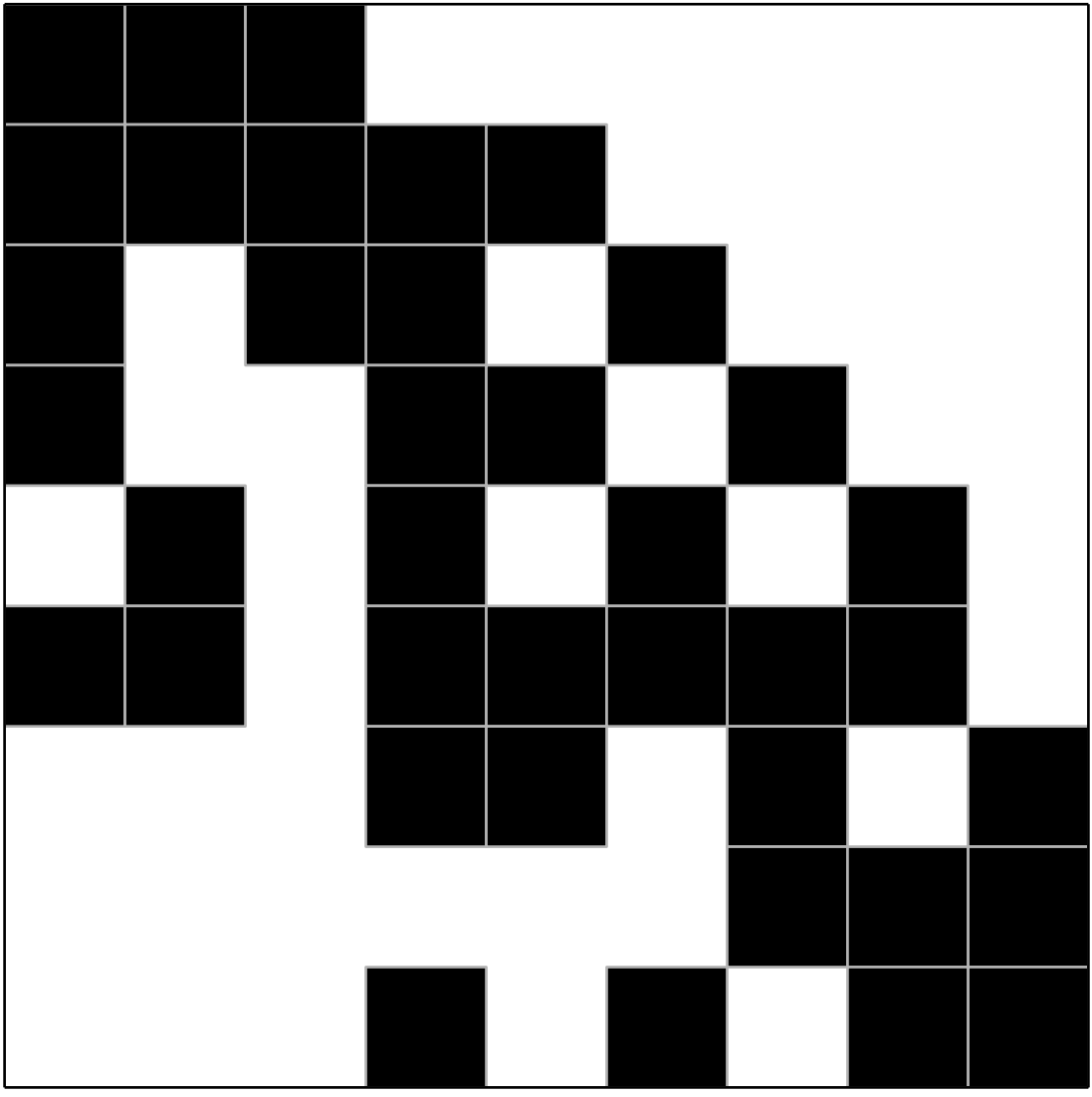

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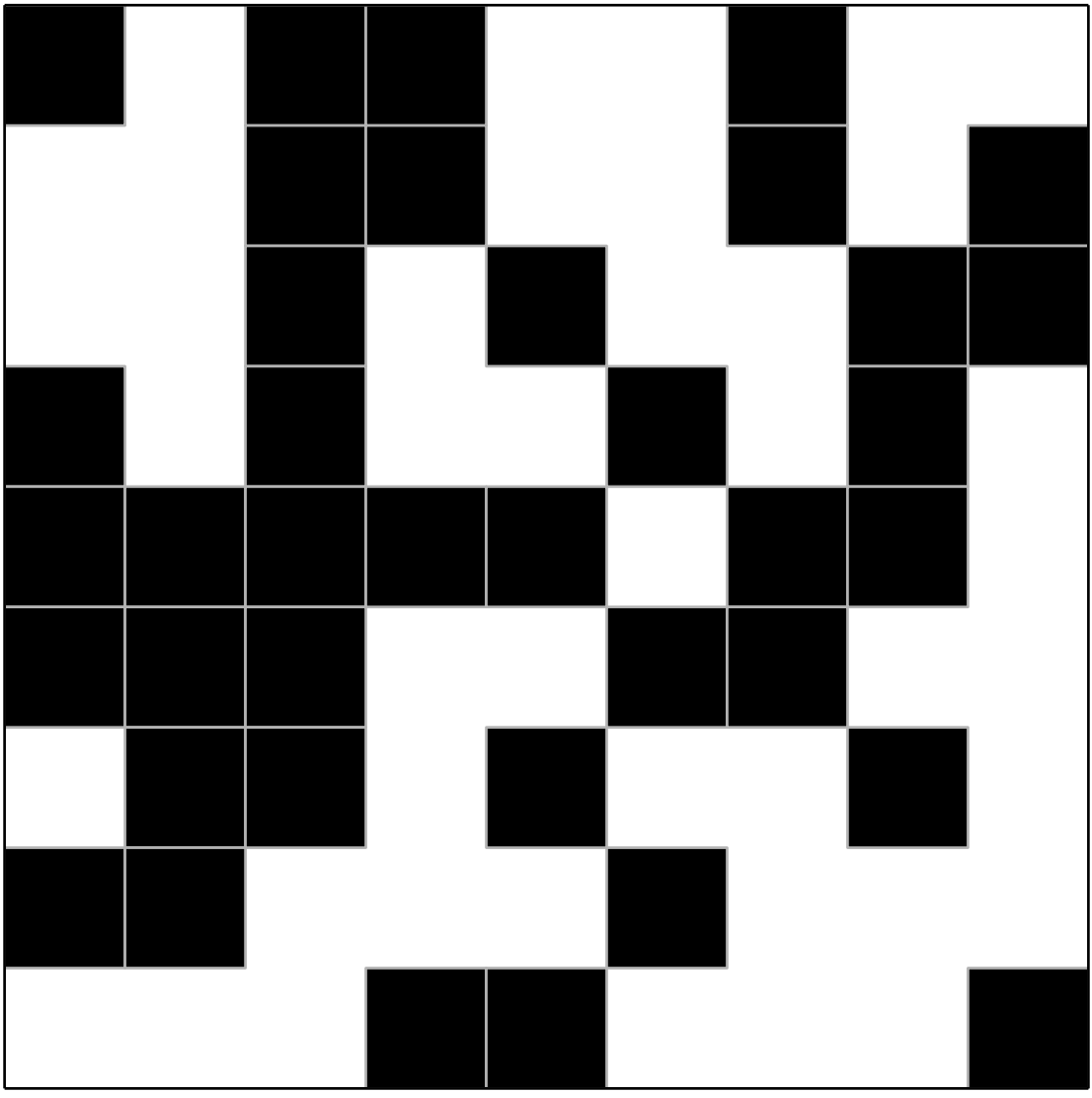

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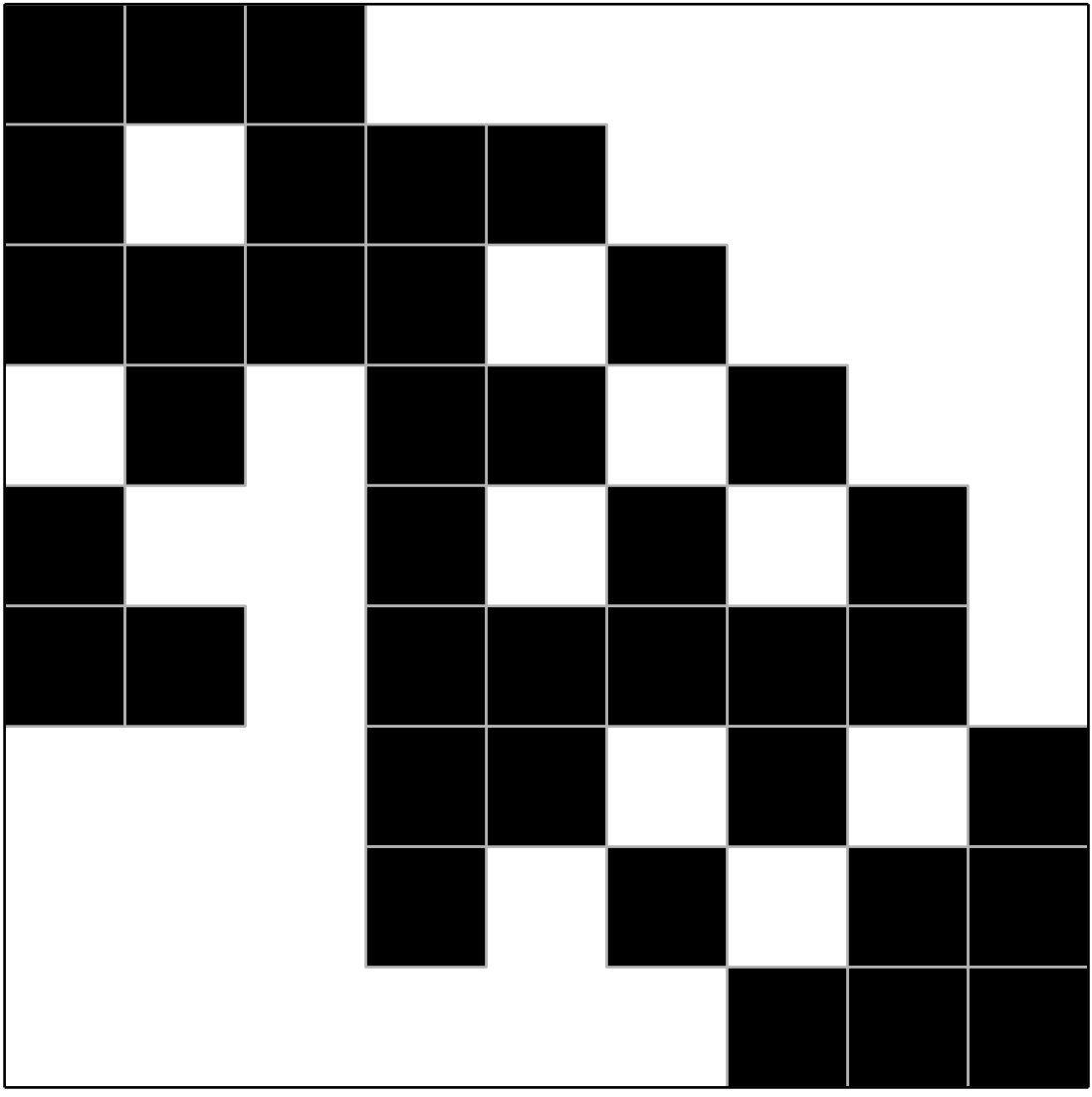

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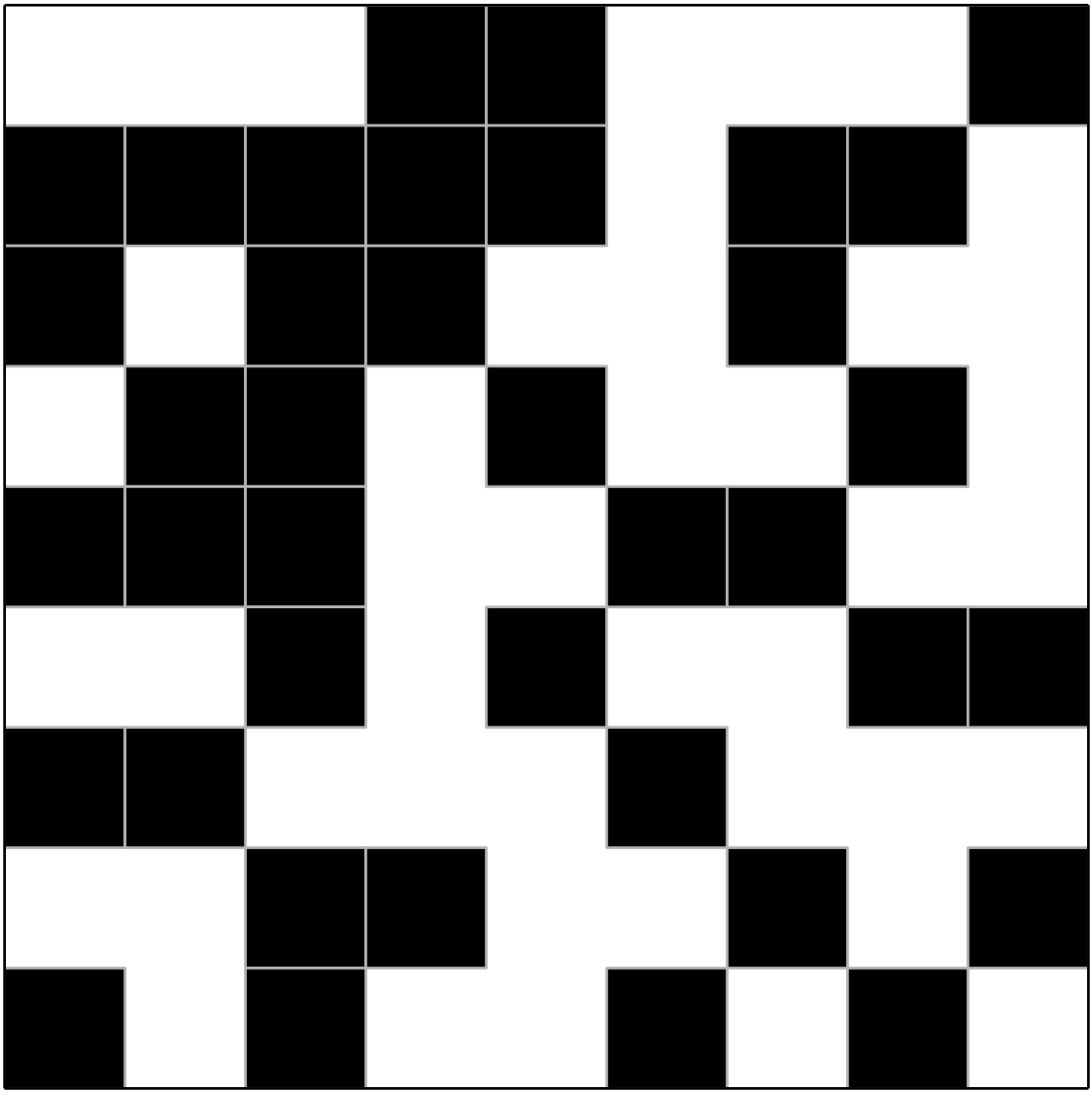

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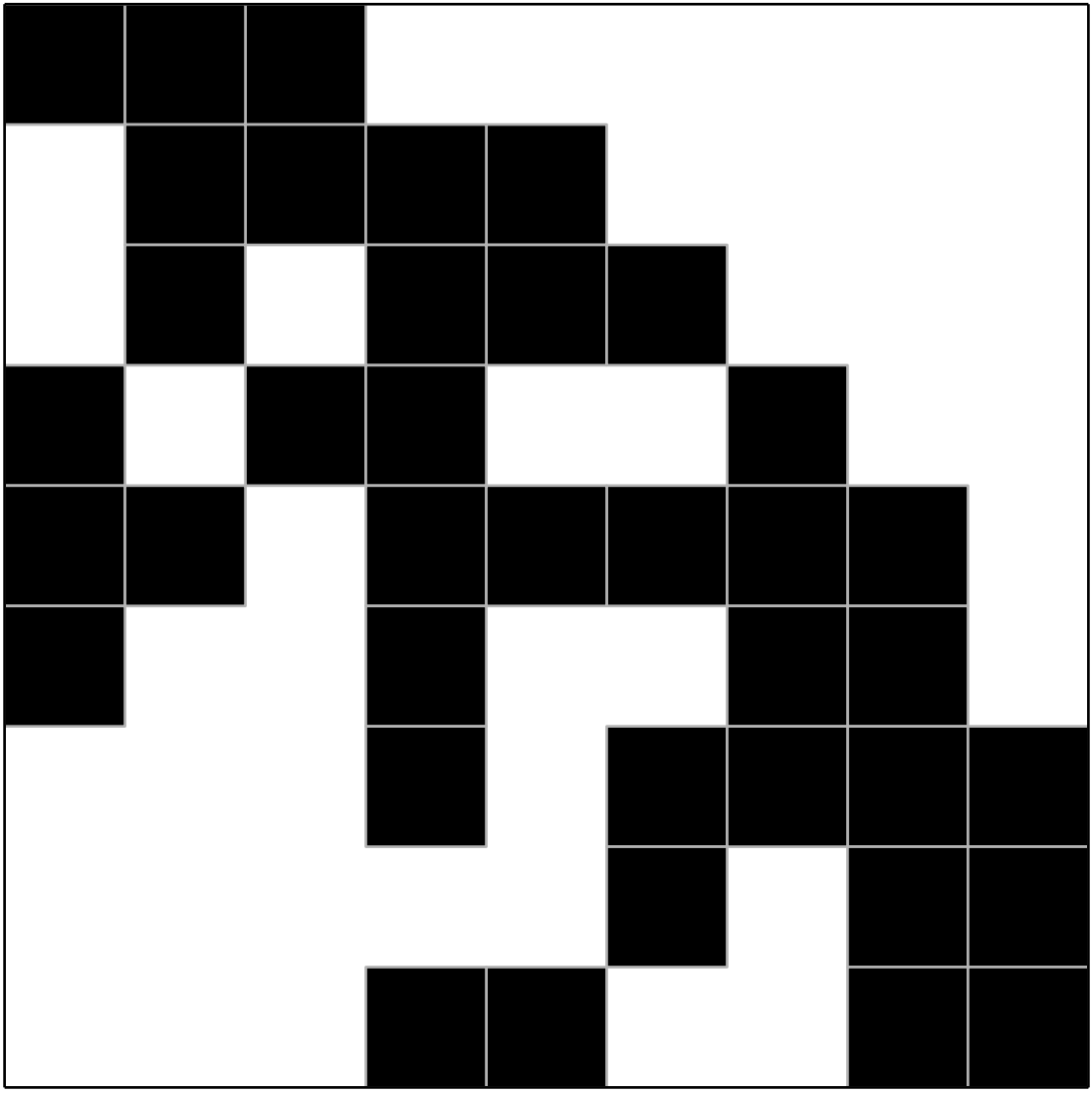

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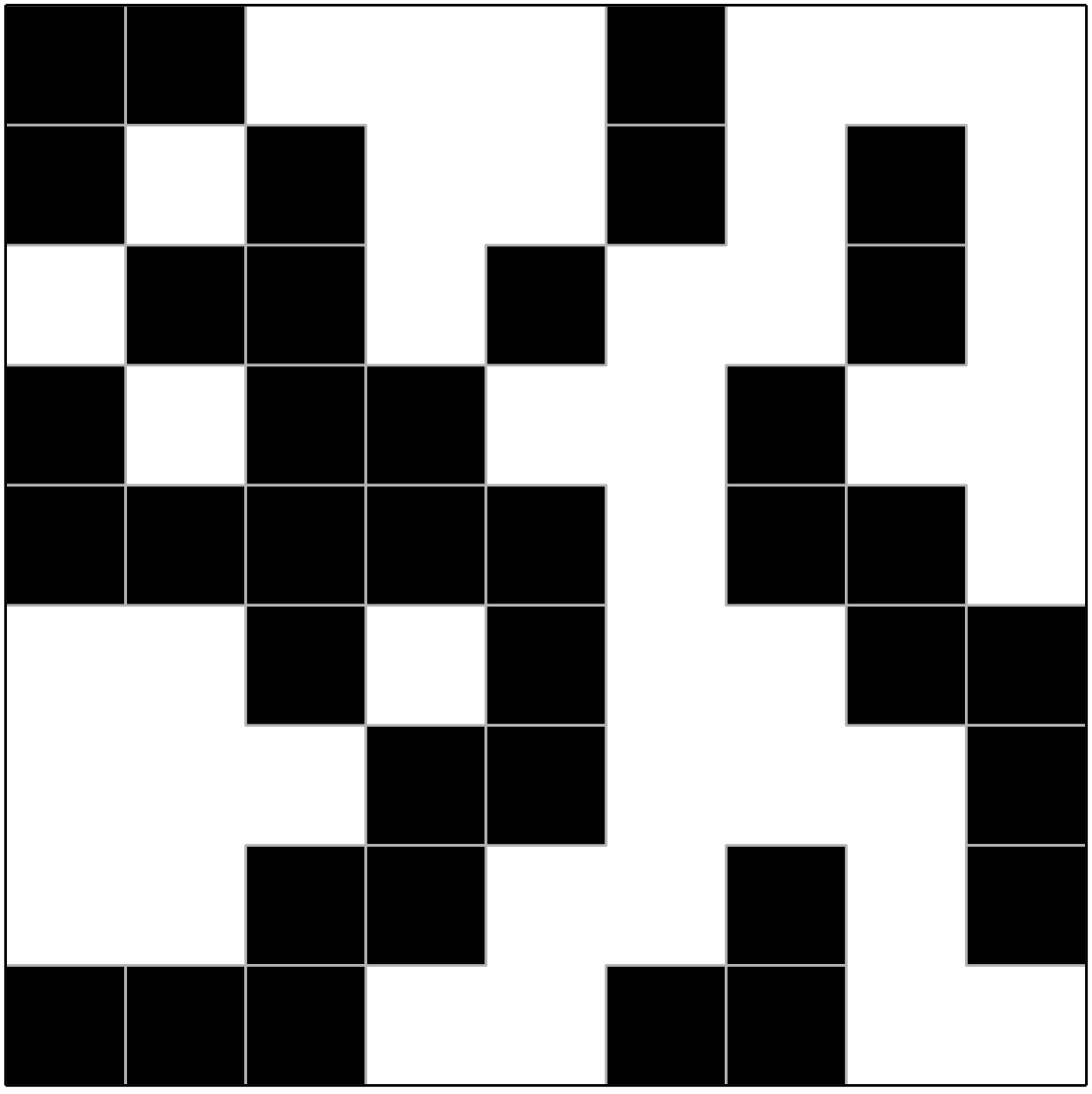

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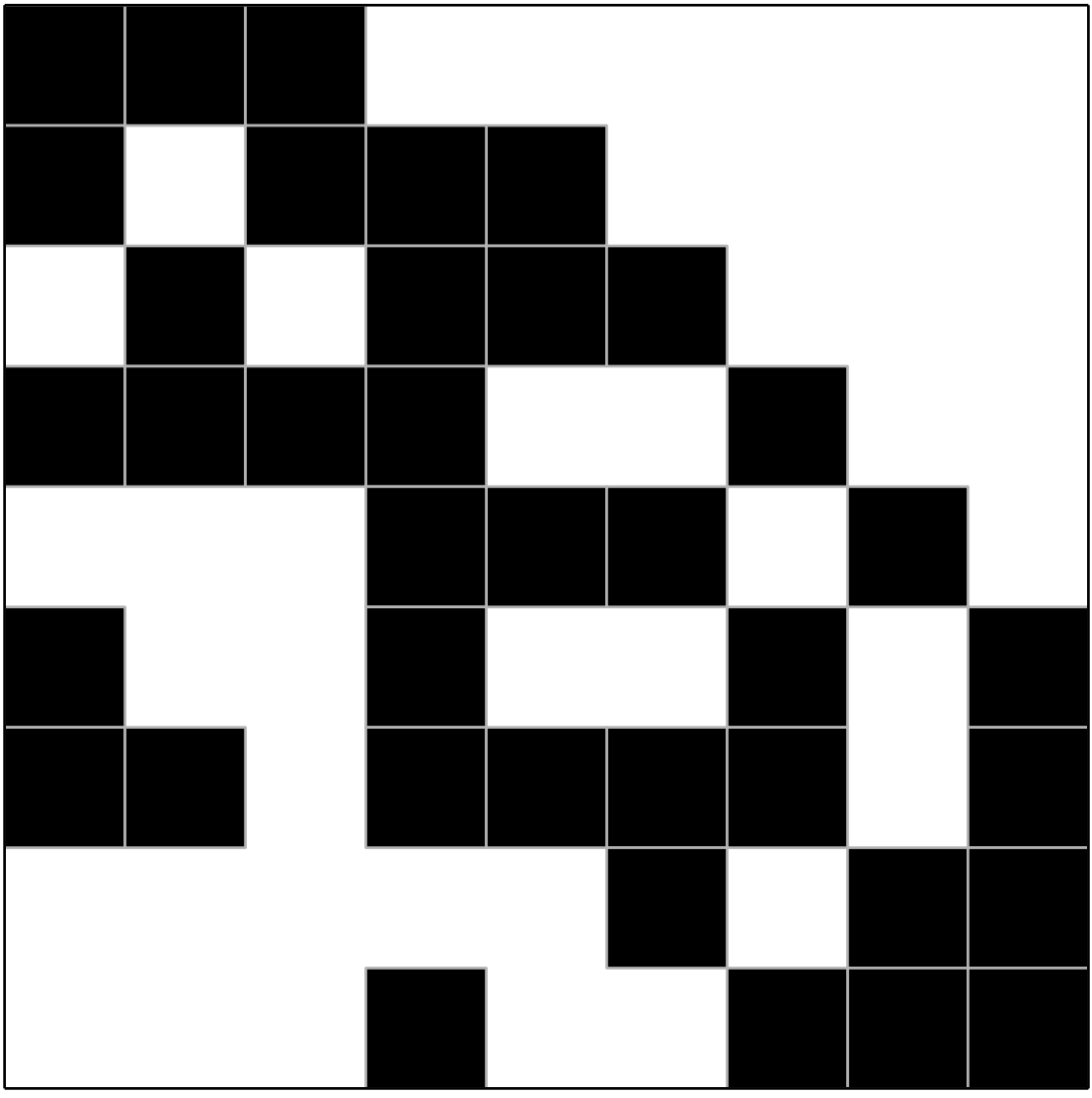

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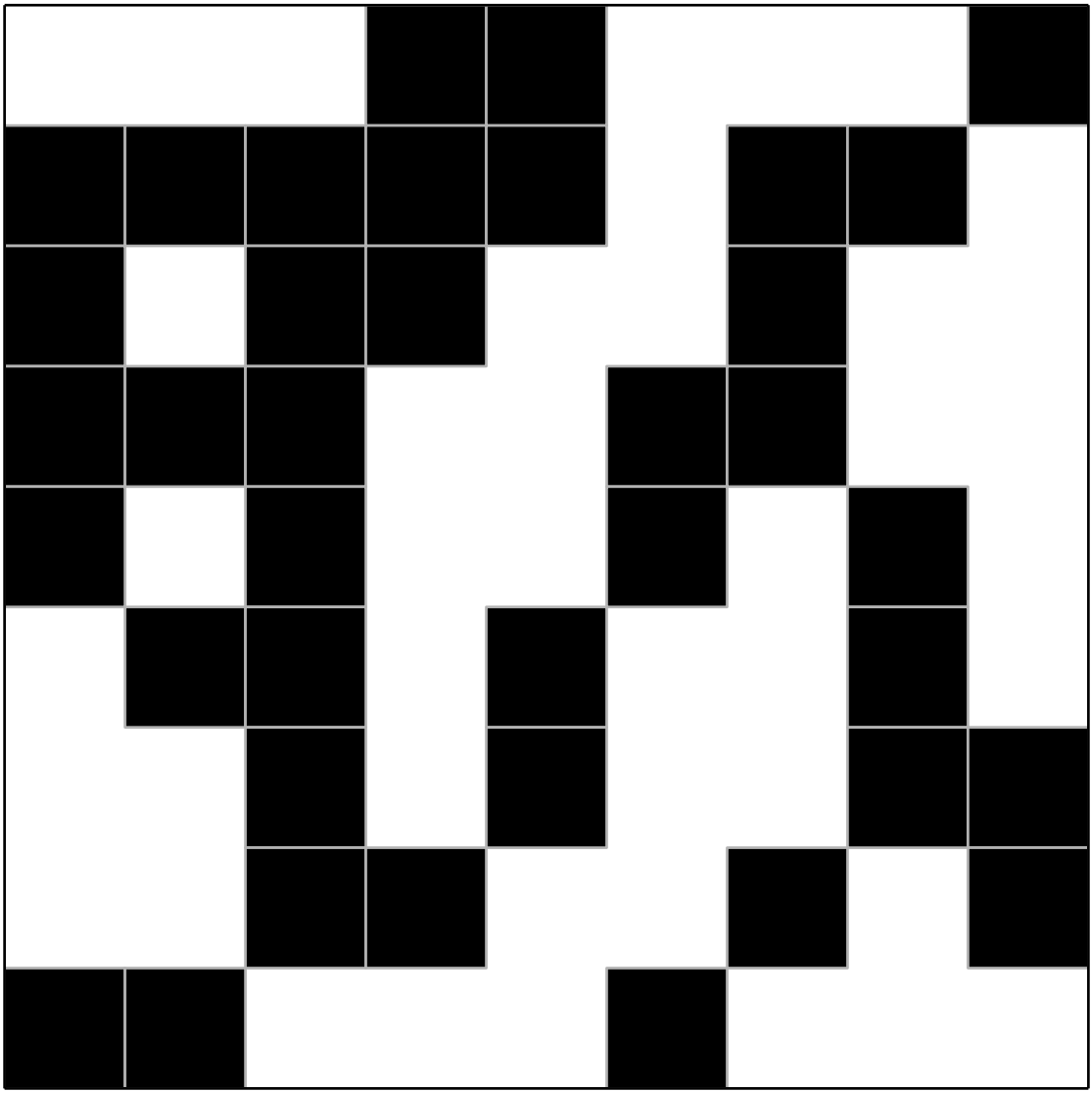

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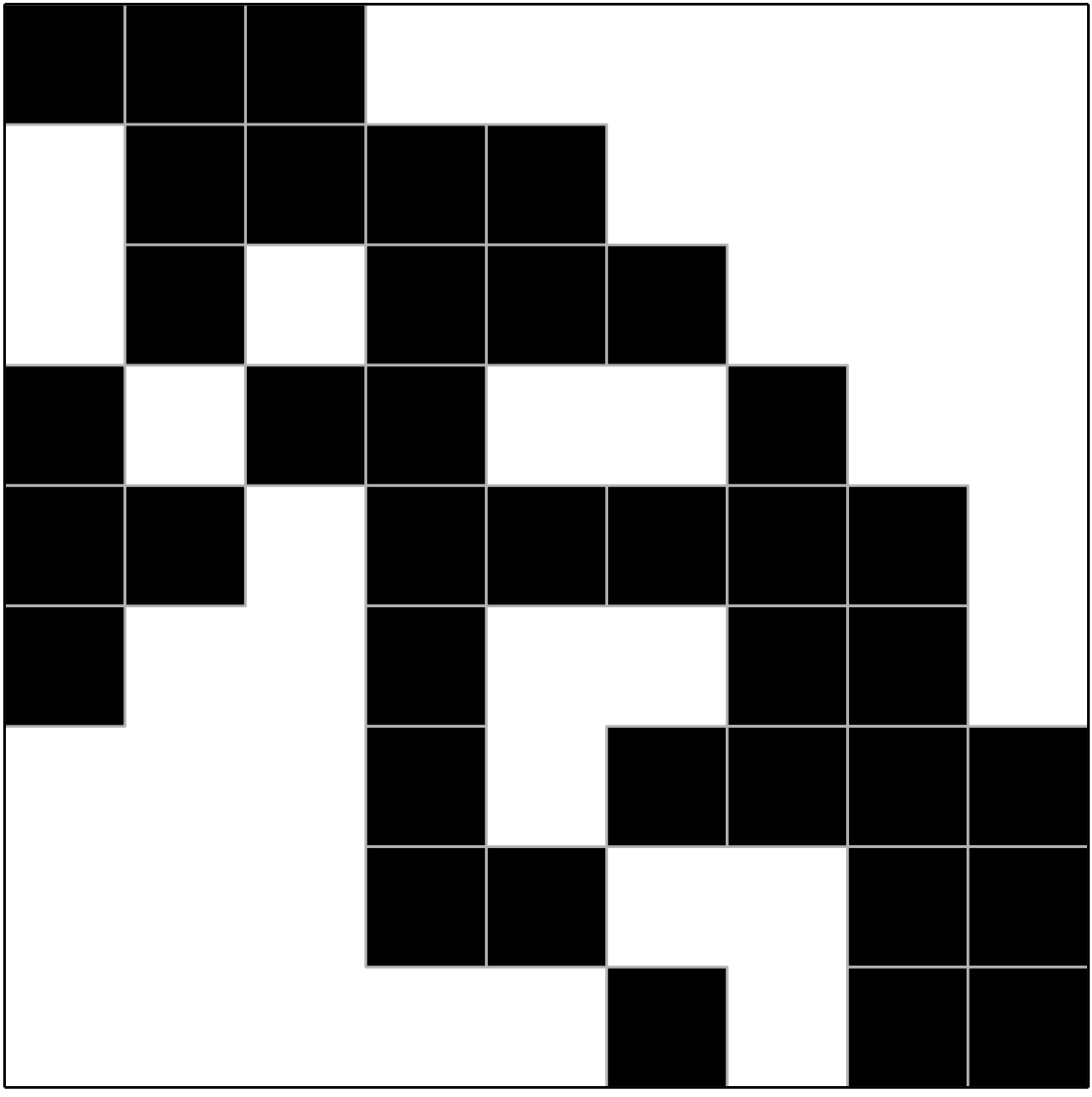
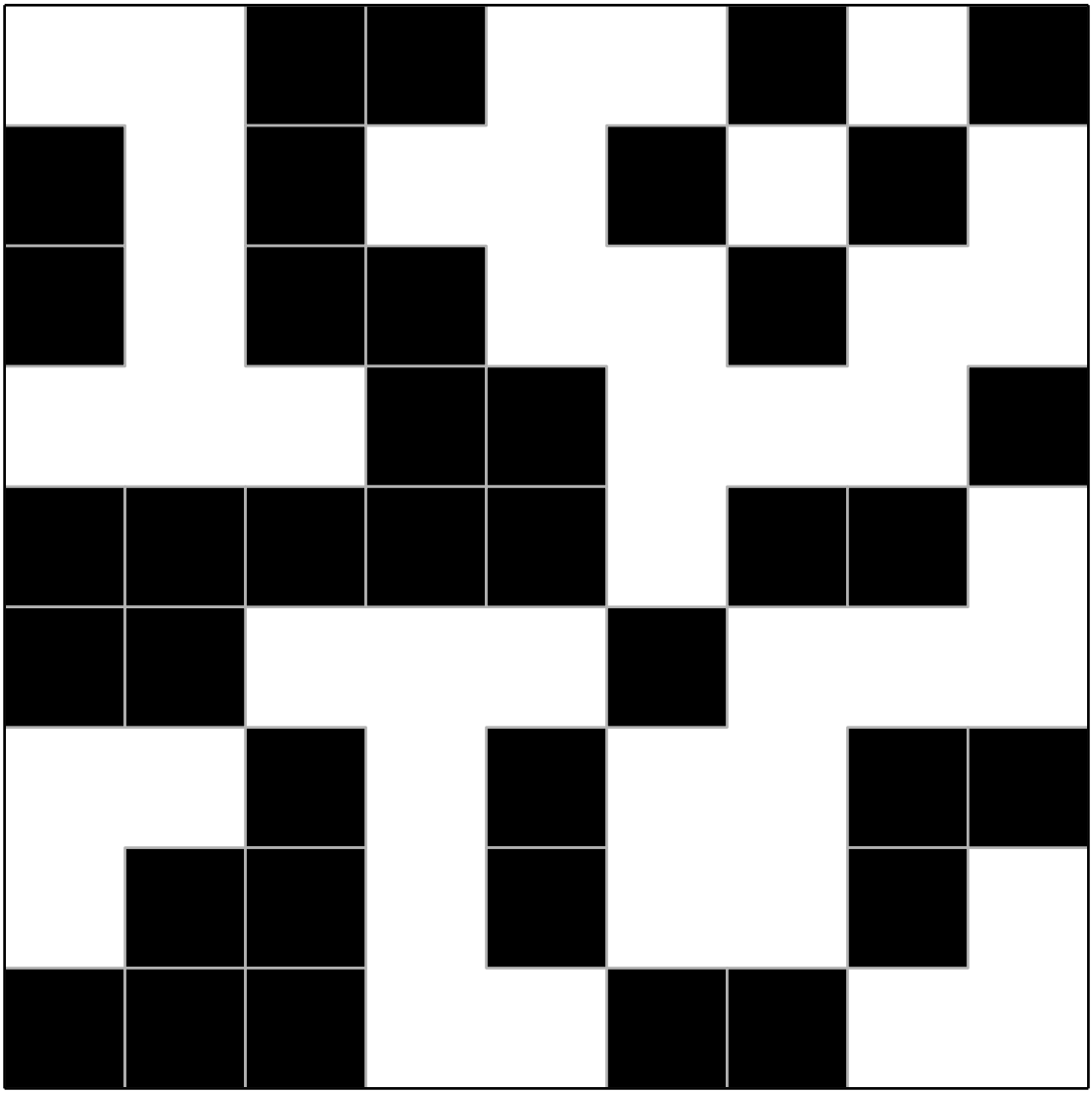


lib2_lsnnodoc-08 9x9 (38) con: 4, var: 5



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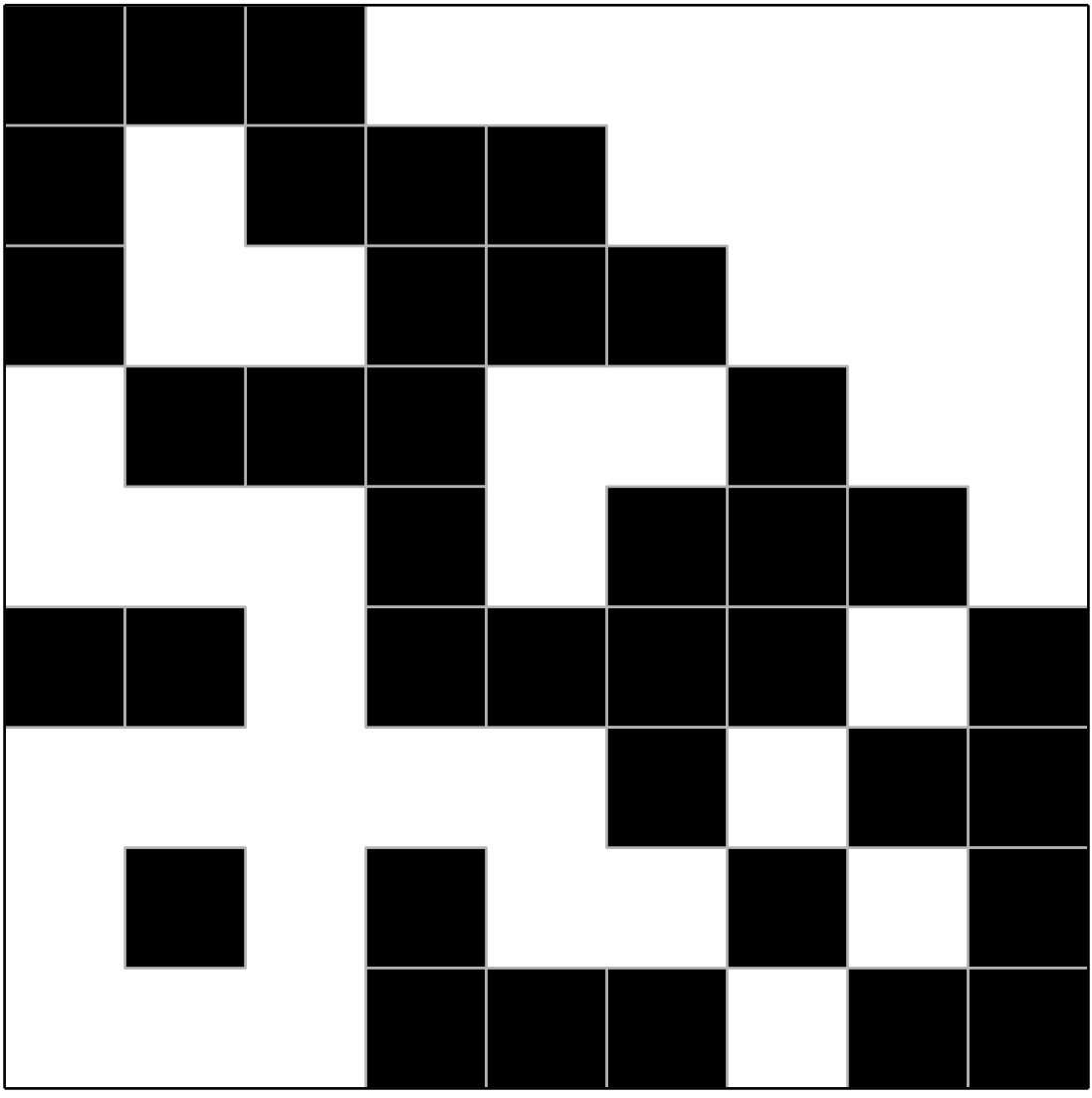
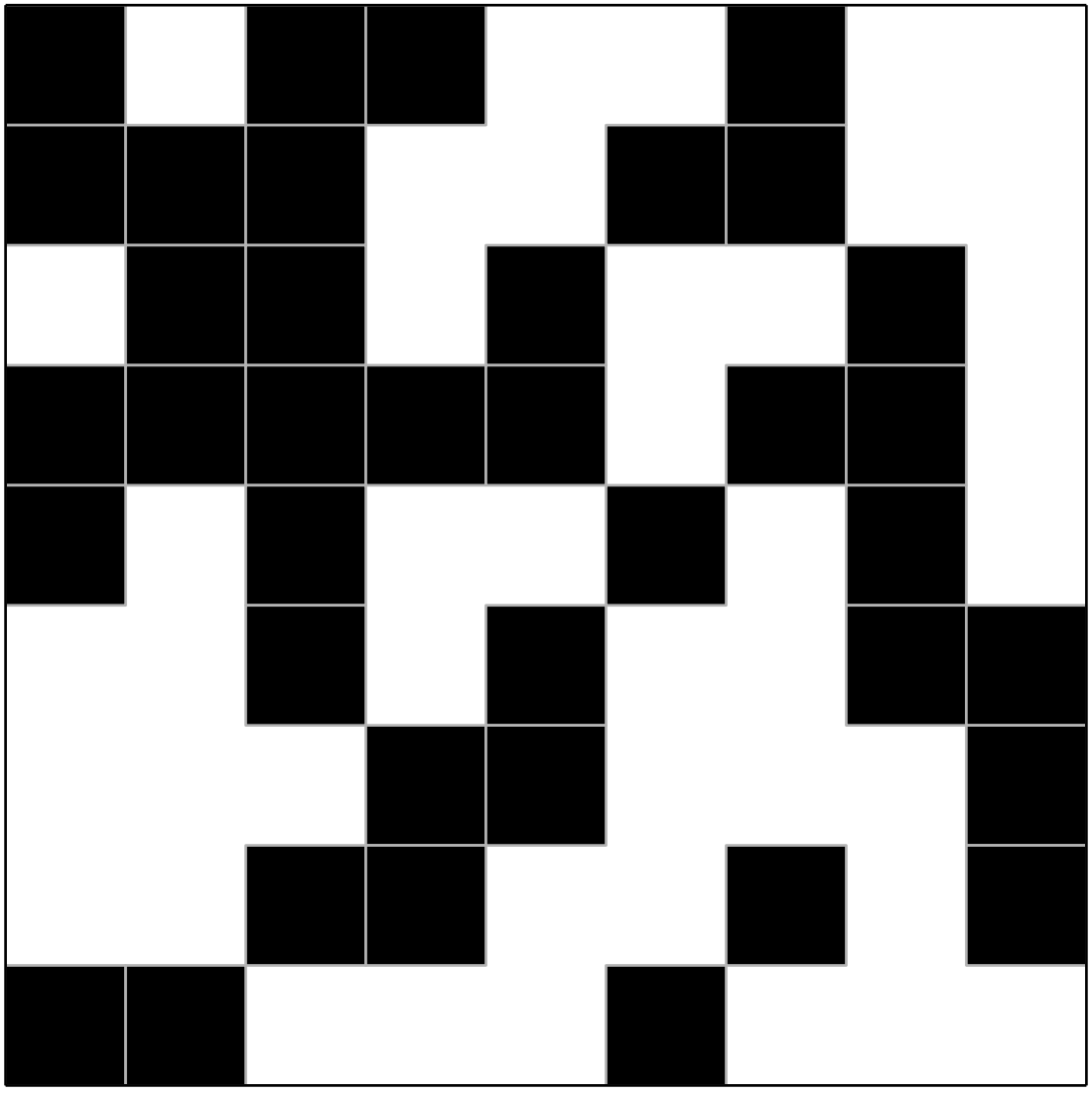


lib2_lsnnodoc-09 9x9 (38) con: 4, var: 5



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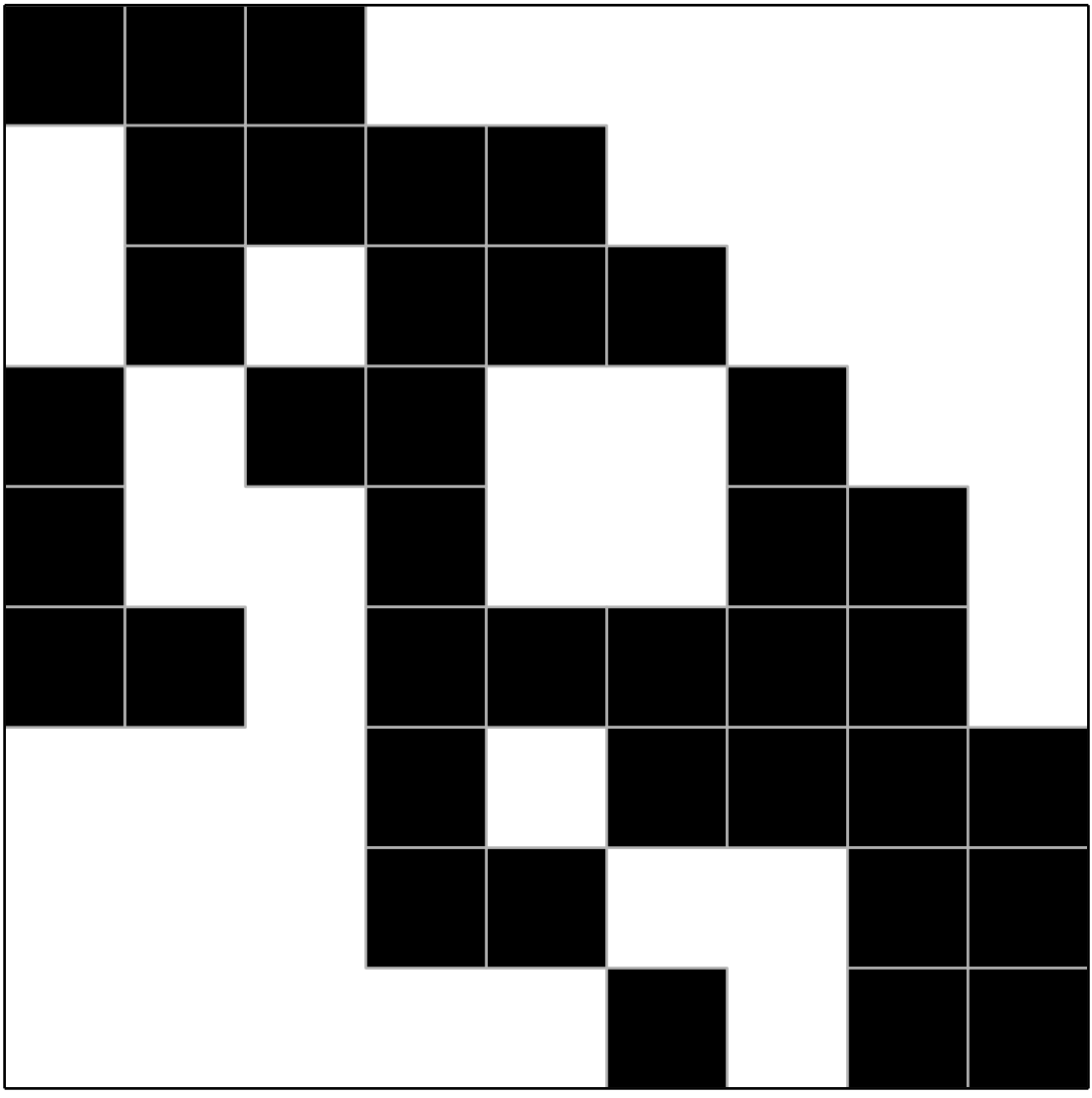

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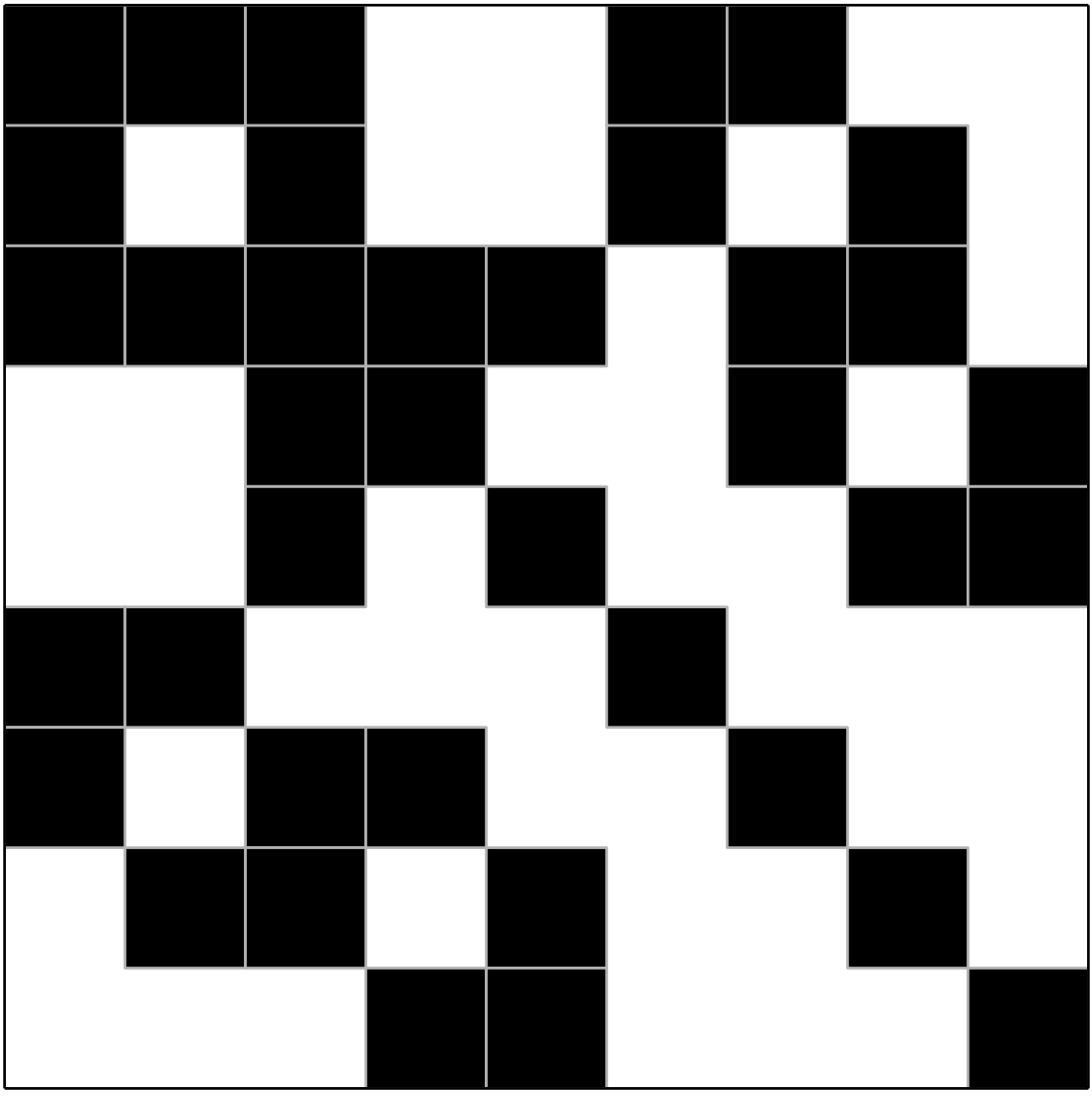

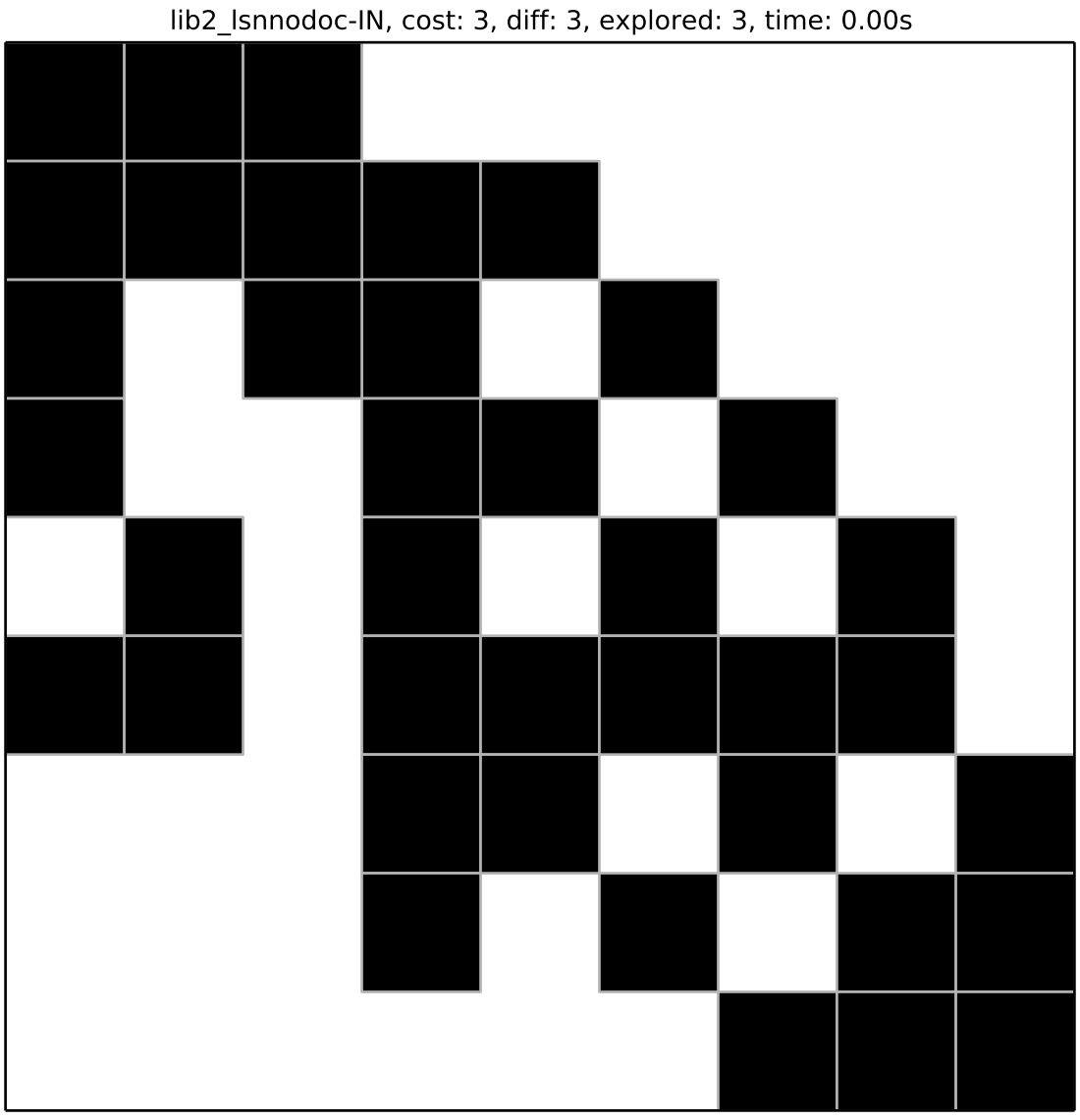
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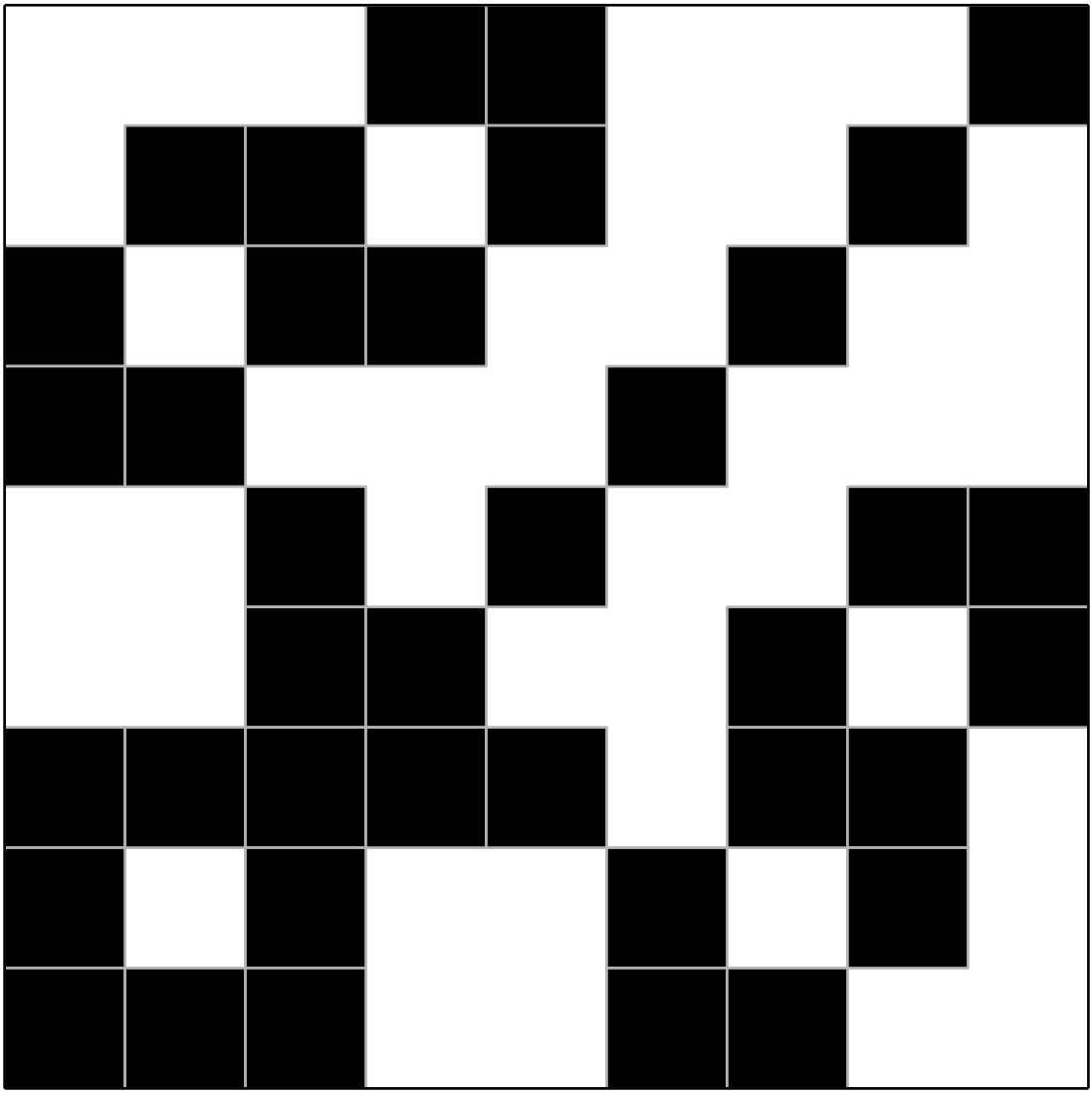
lib2_lsnnodoc-RE 9x9 (38) con: 4, var: 5



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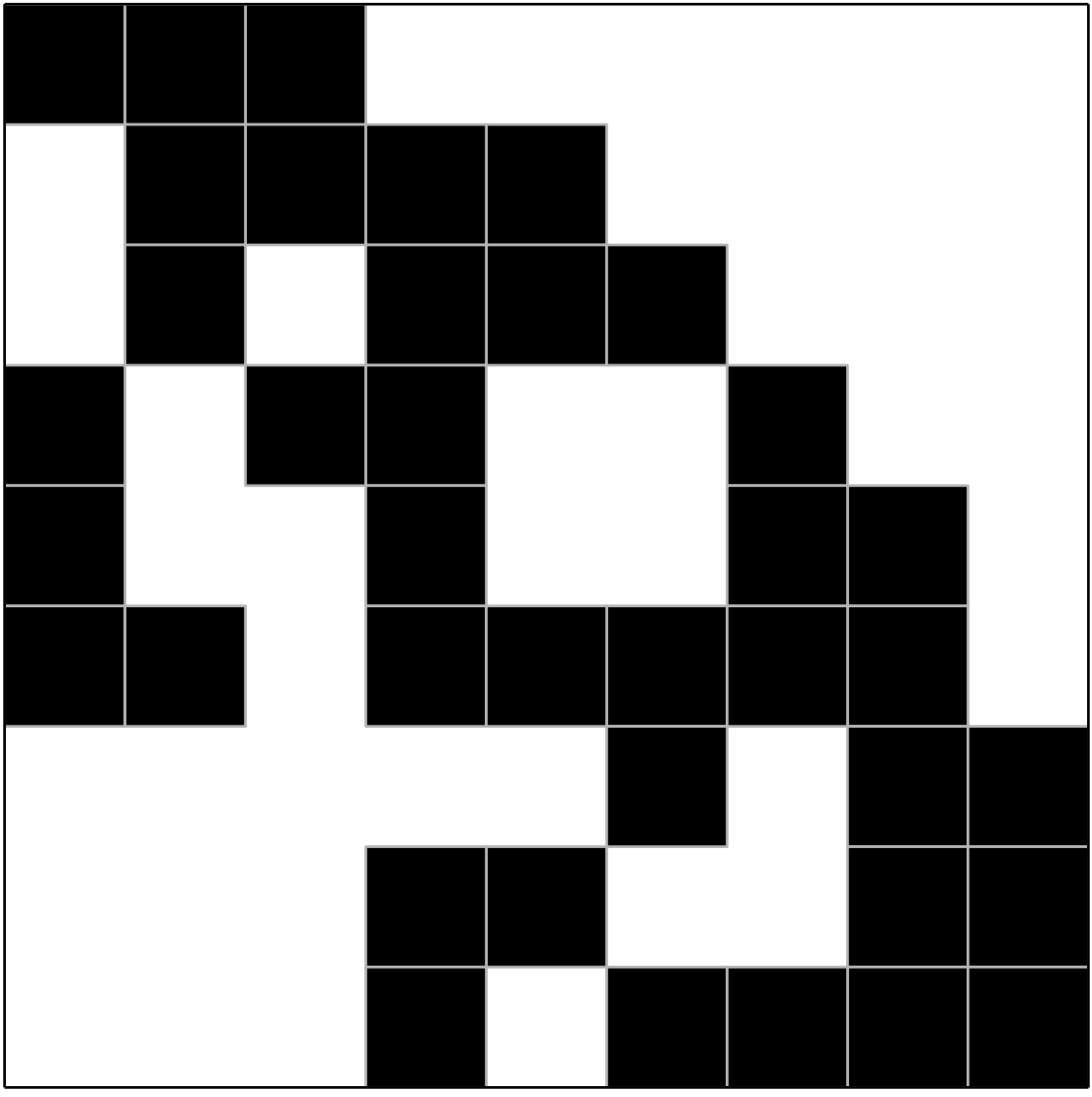
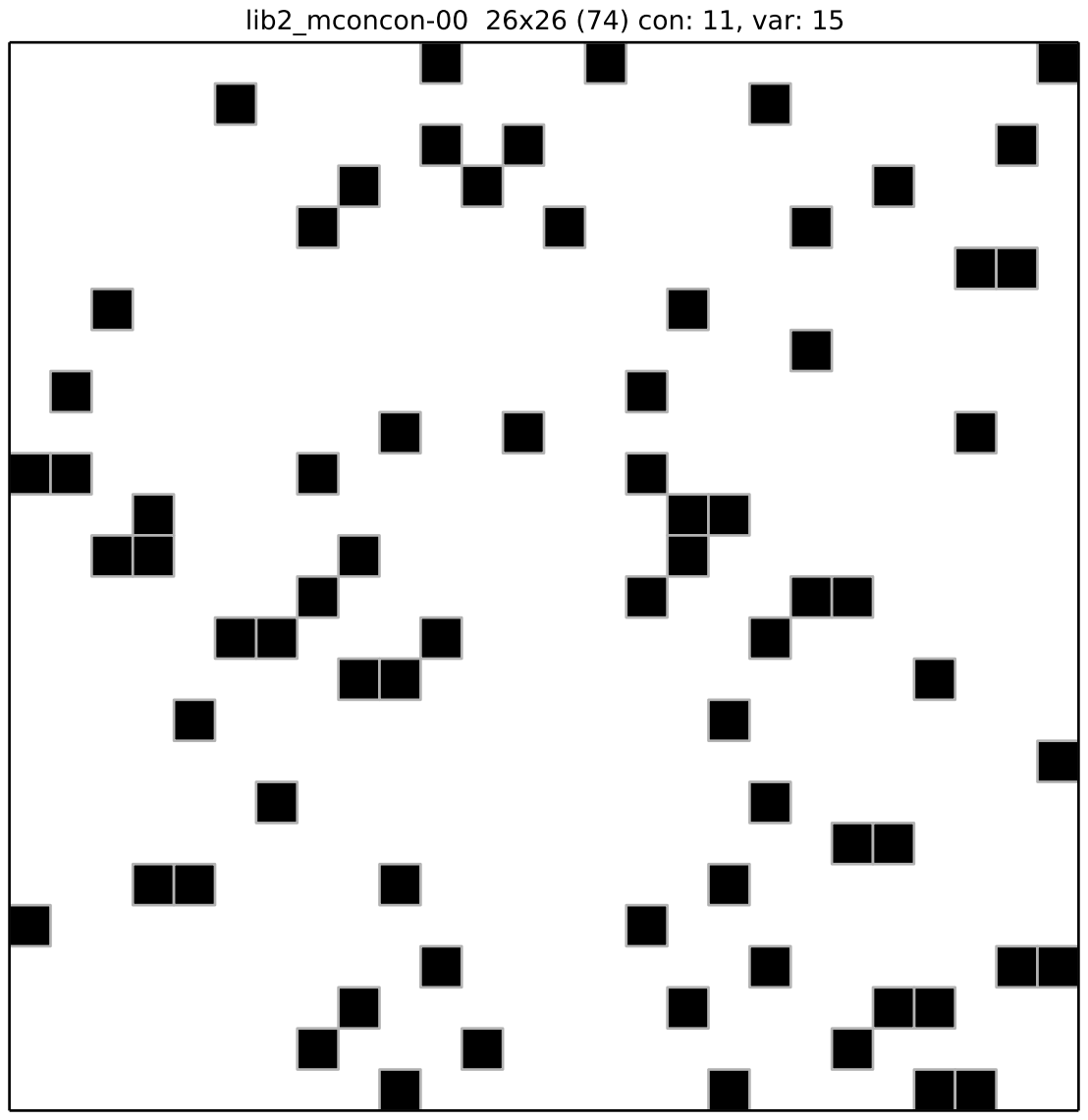
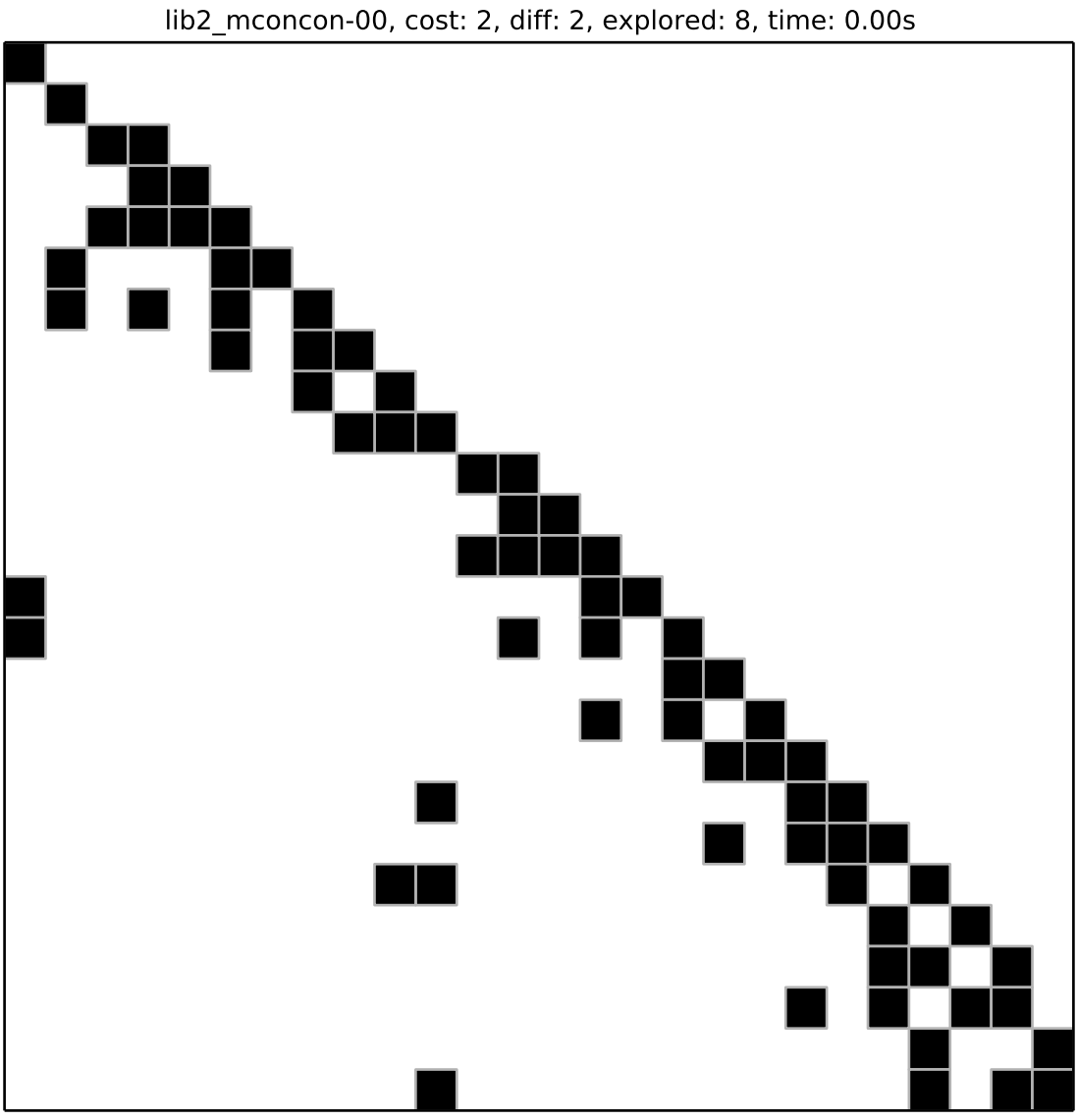
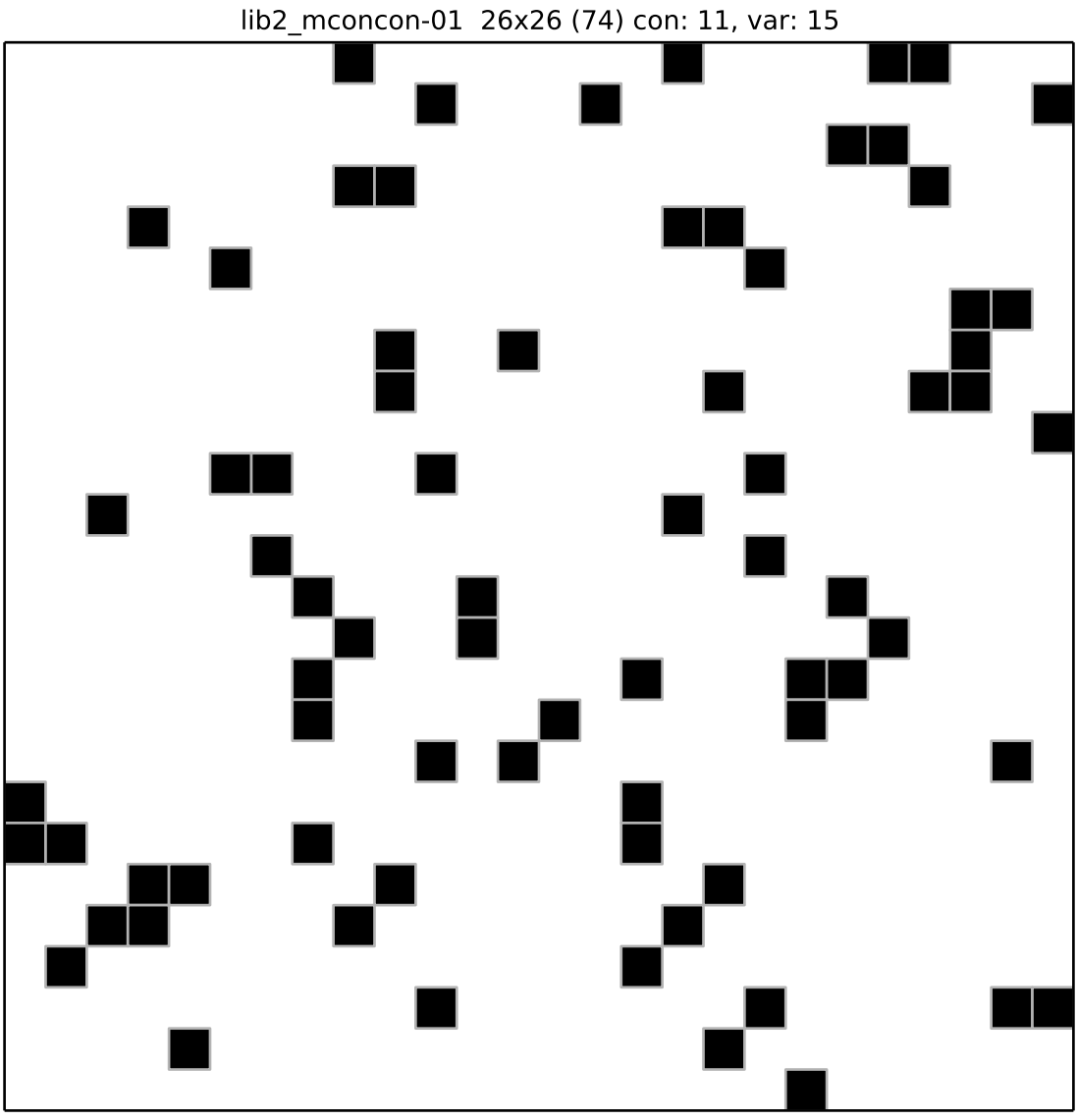



lib2_mconcon-00 26x26 (74) con: 11, var: 15


lib2_mconcon-00, cost: 2, diff: 2, explored: 8, time: 0.00s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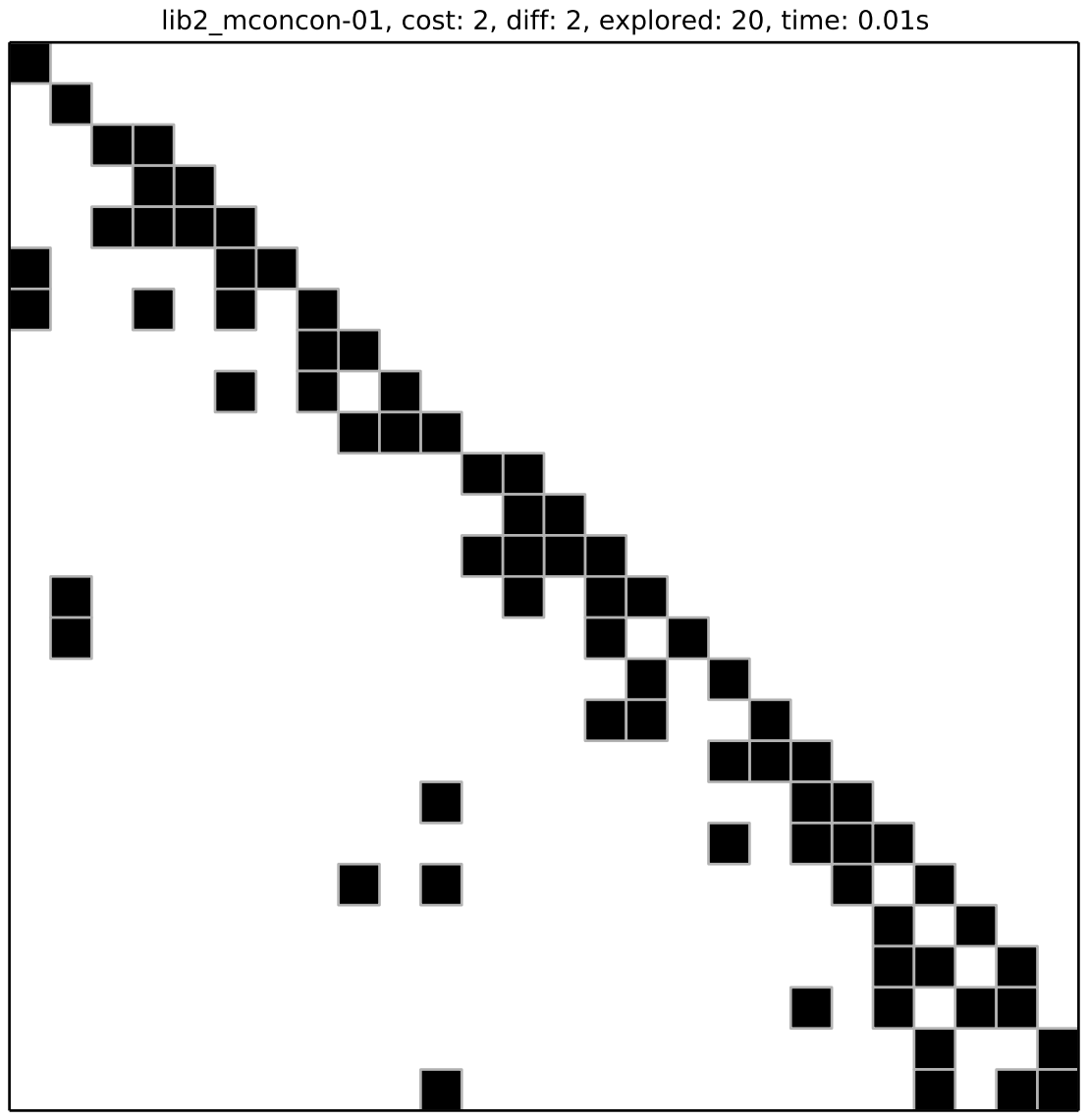
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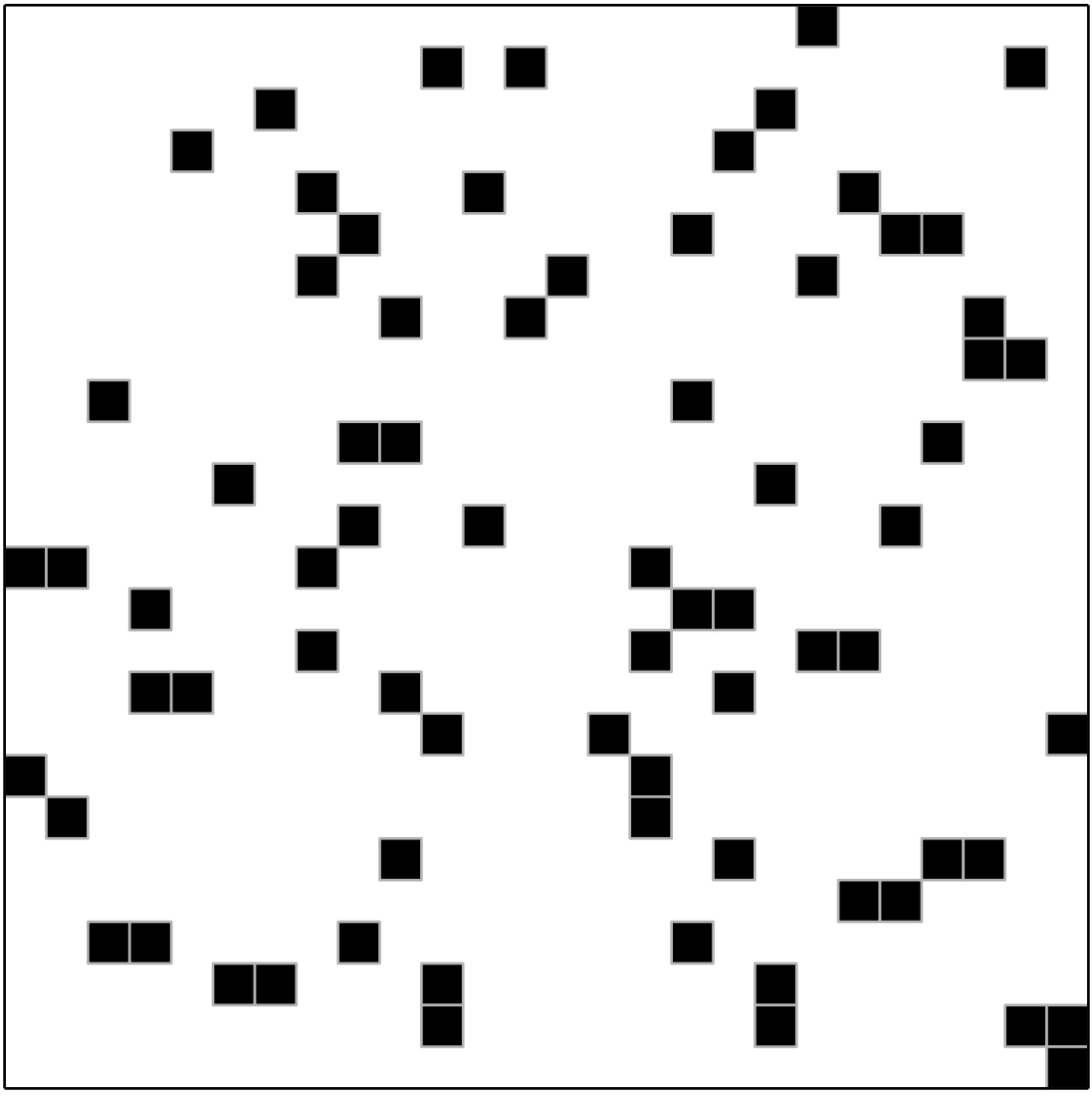
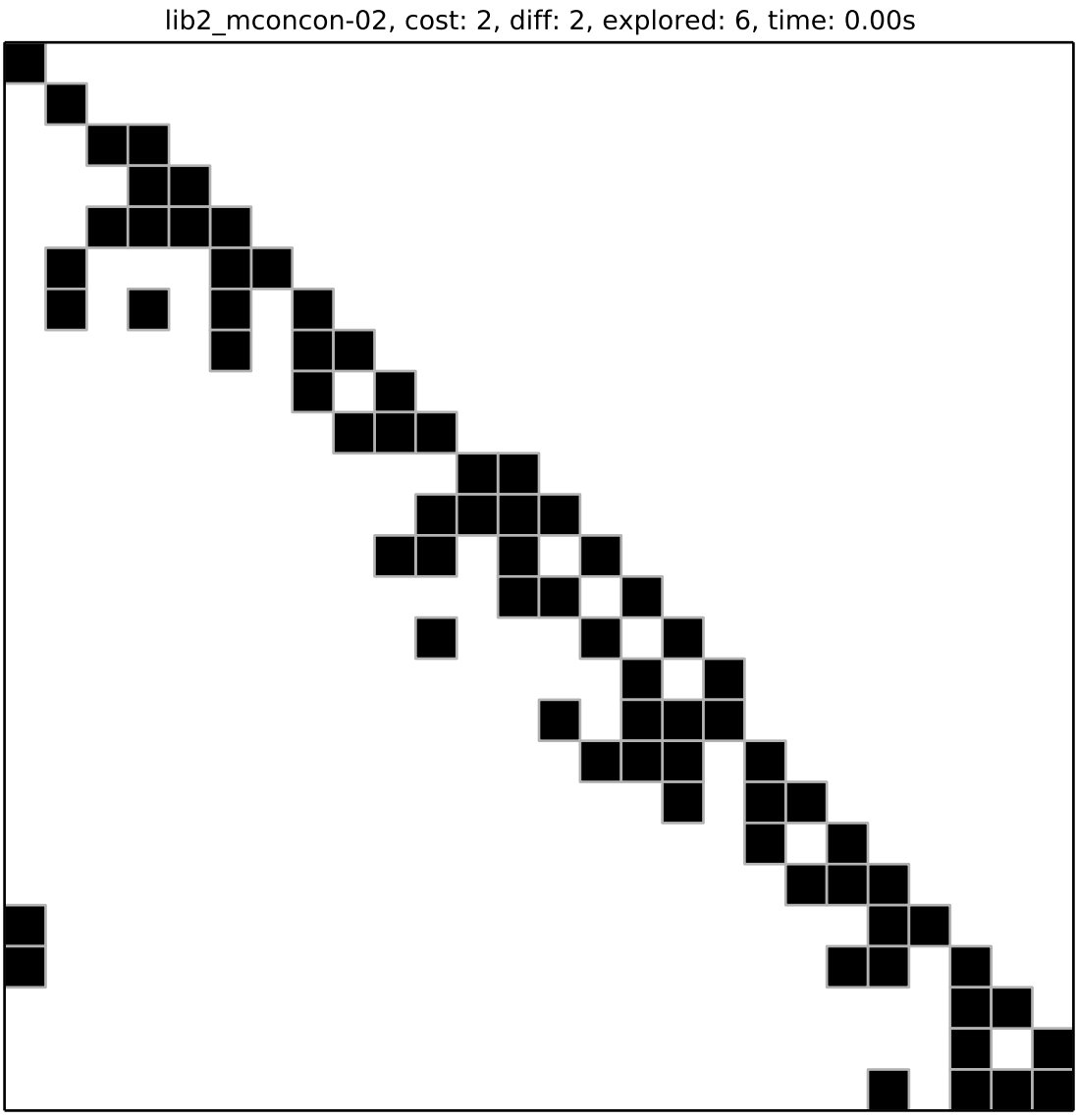
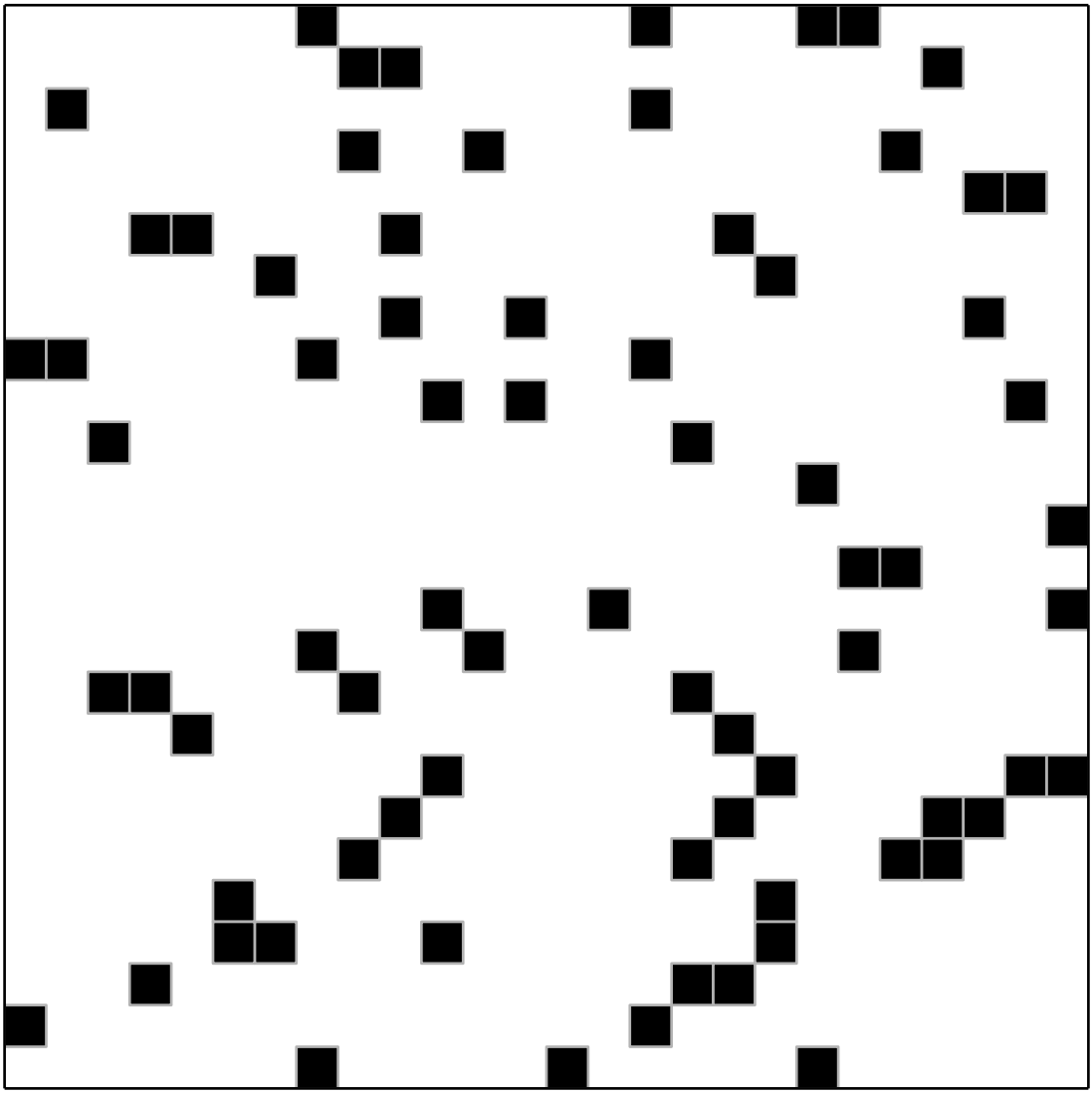
lib2_mconcon-02 26x26 (74) con: 11, var: 15

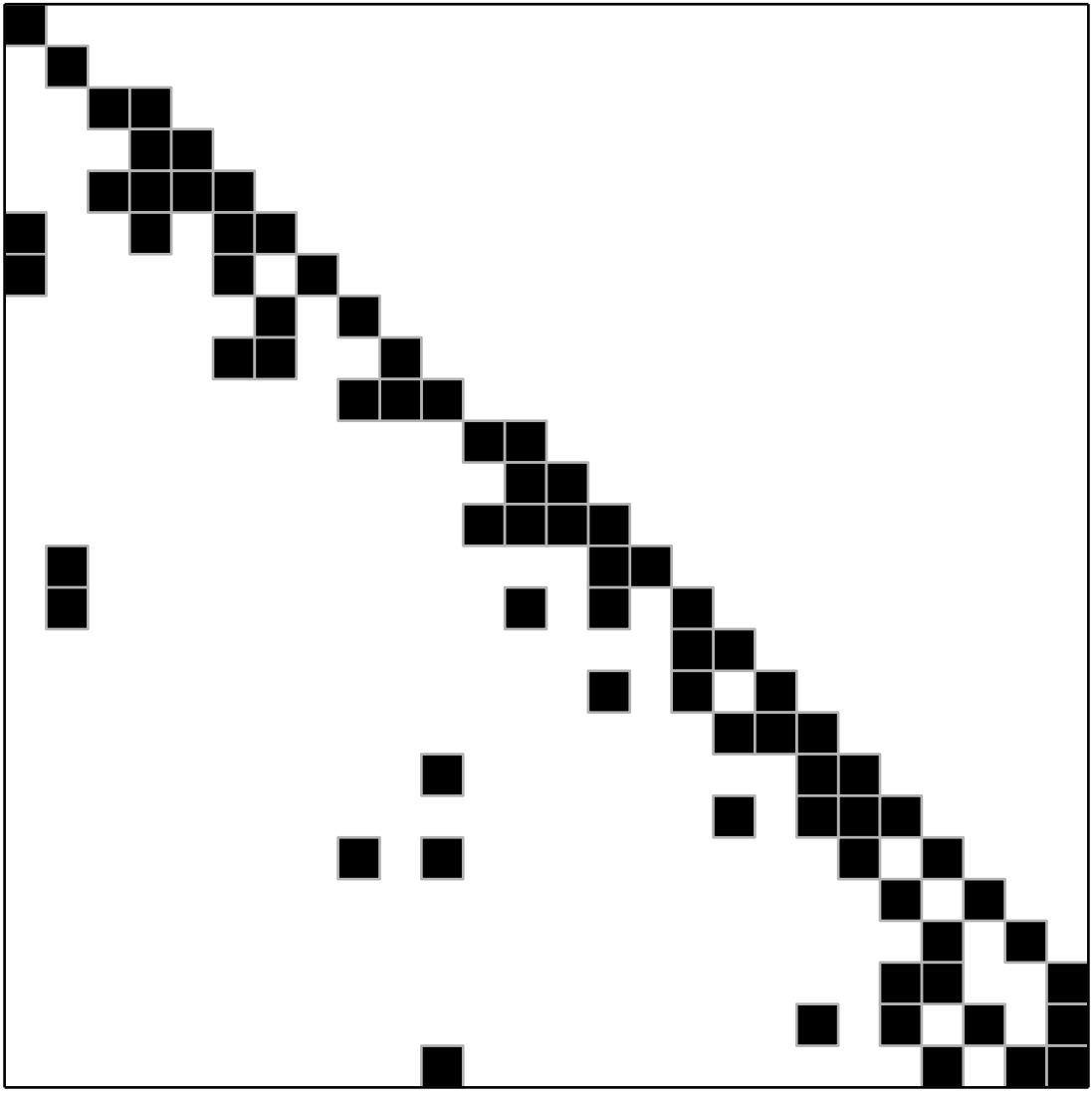


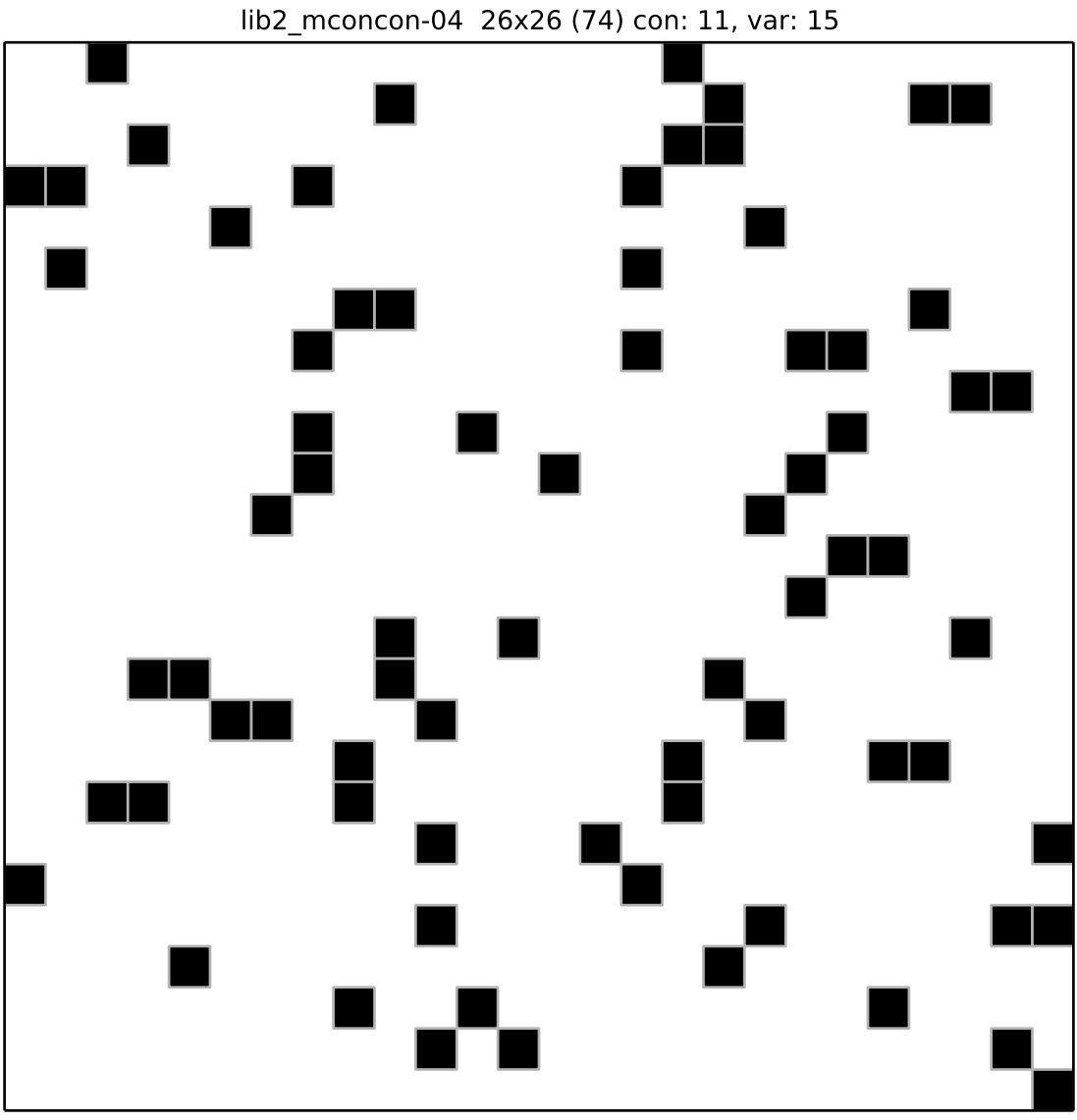

lib2_mconcon-02, cost: 2, diff: 2, explored: 6, time: 0.00s

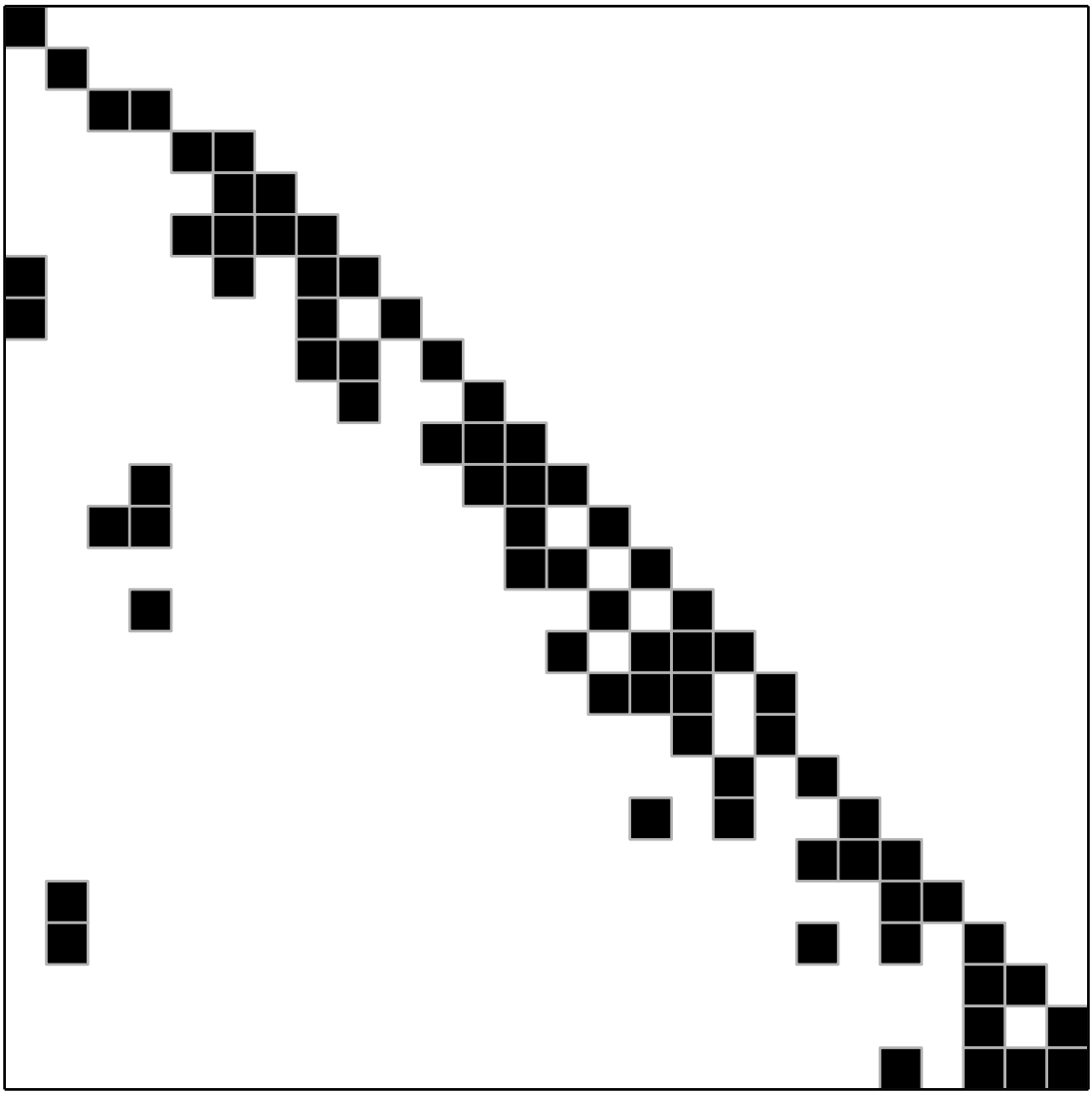
lib2_mconcon-03 26x26 (74) con: 11, var: 15

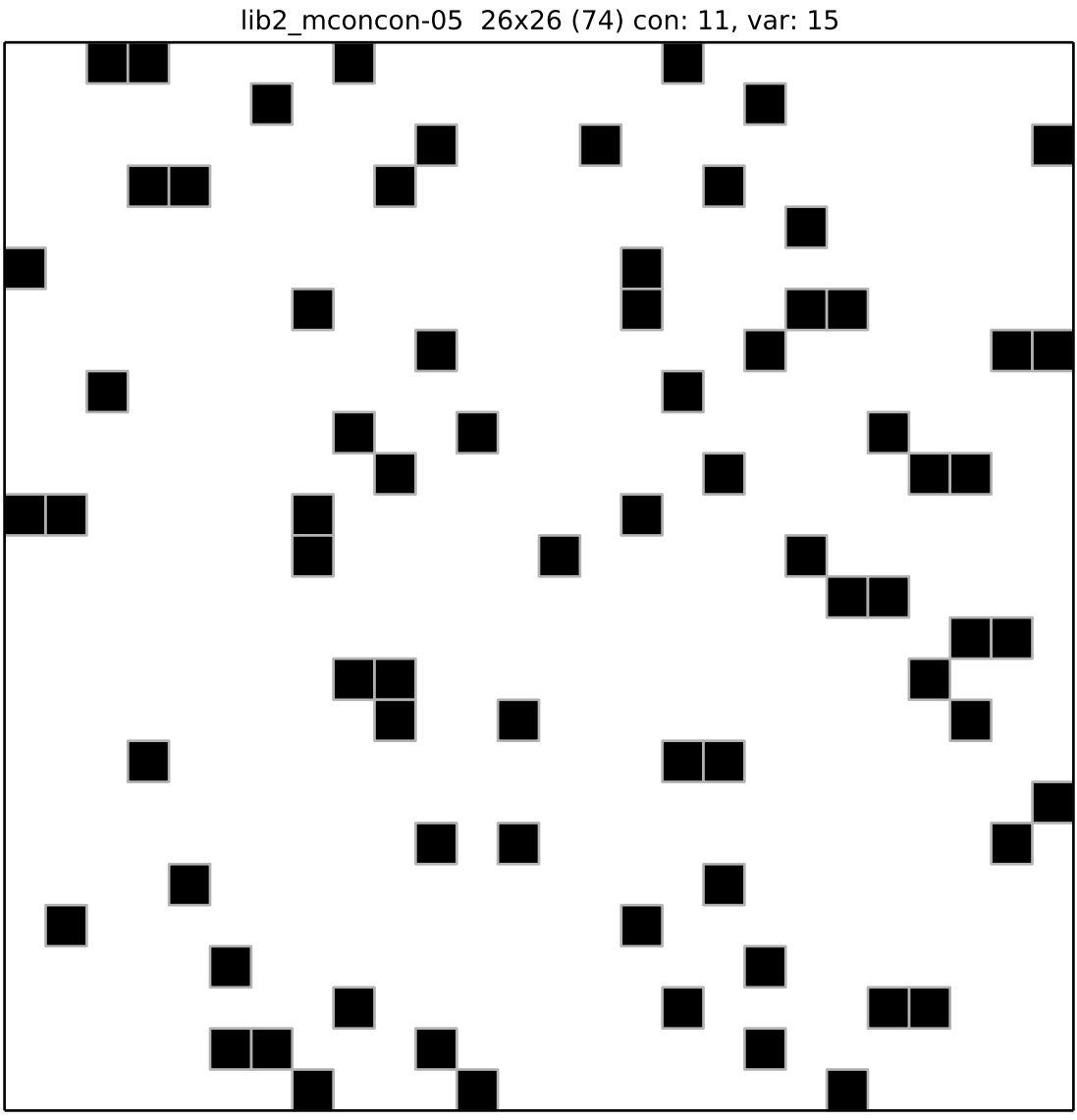


lib2_mconcon-03, cost: 2, diff: 2, explored: 8, time: 0.00s

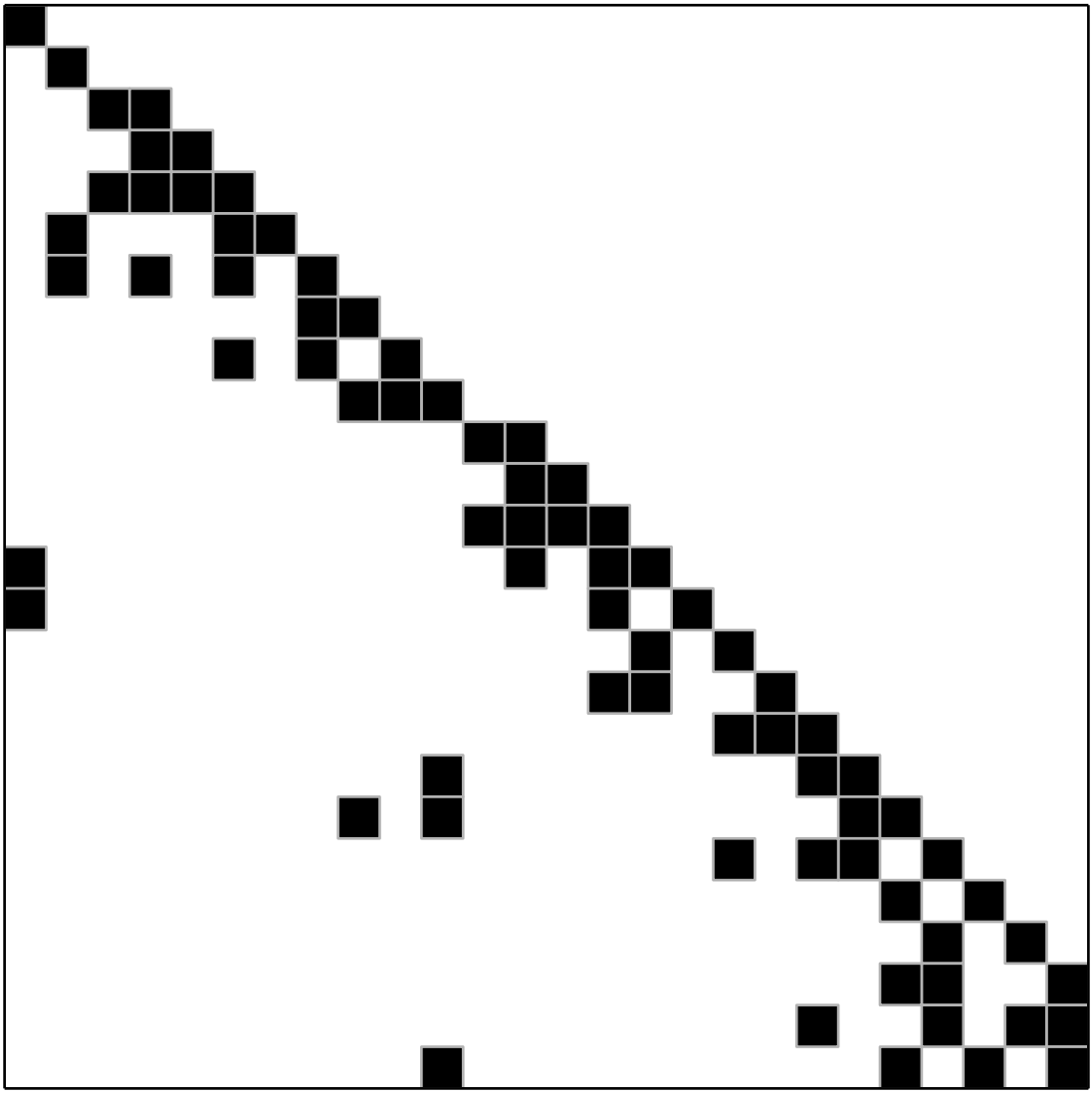


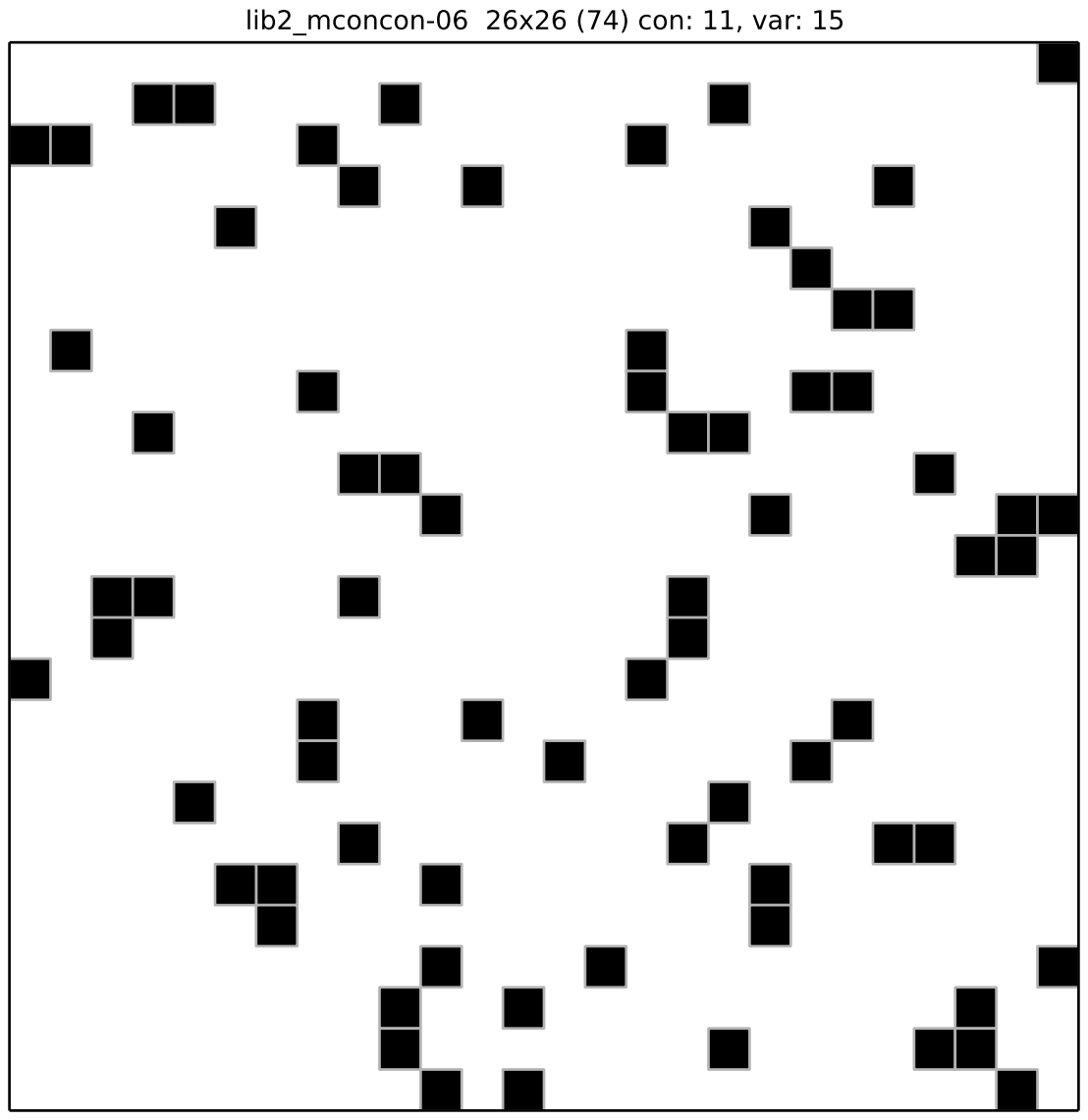

lib2_mconcon-04 26x26 (74) con: 11, var: 15

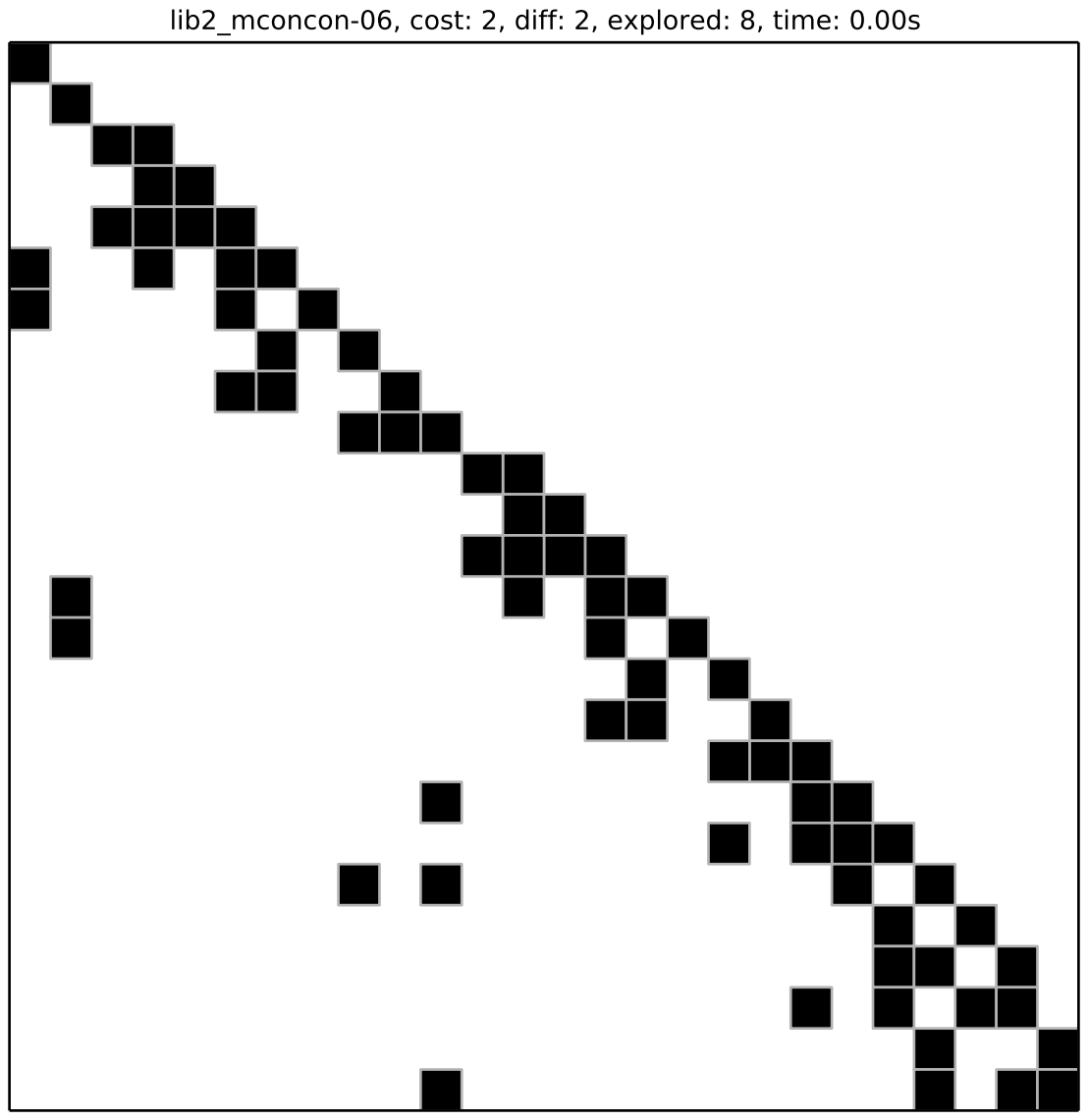

lib2_mconcon-04, cost: 2, diff: 2, explored: 7, time: 0.00s


lib2_mconcon-05 26x26 (74) con: 11, var: 15

lib2_mconcon-05, cost: 2, diff: 2, explored: 6, time: 0.00s




lib2_mconcon-06 26x26 (74) con: 11, var: 15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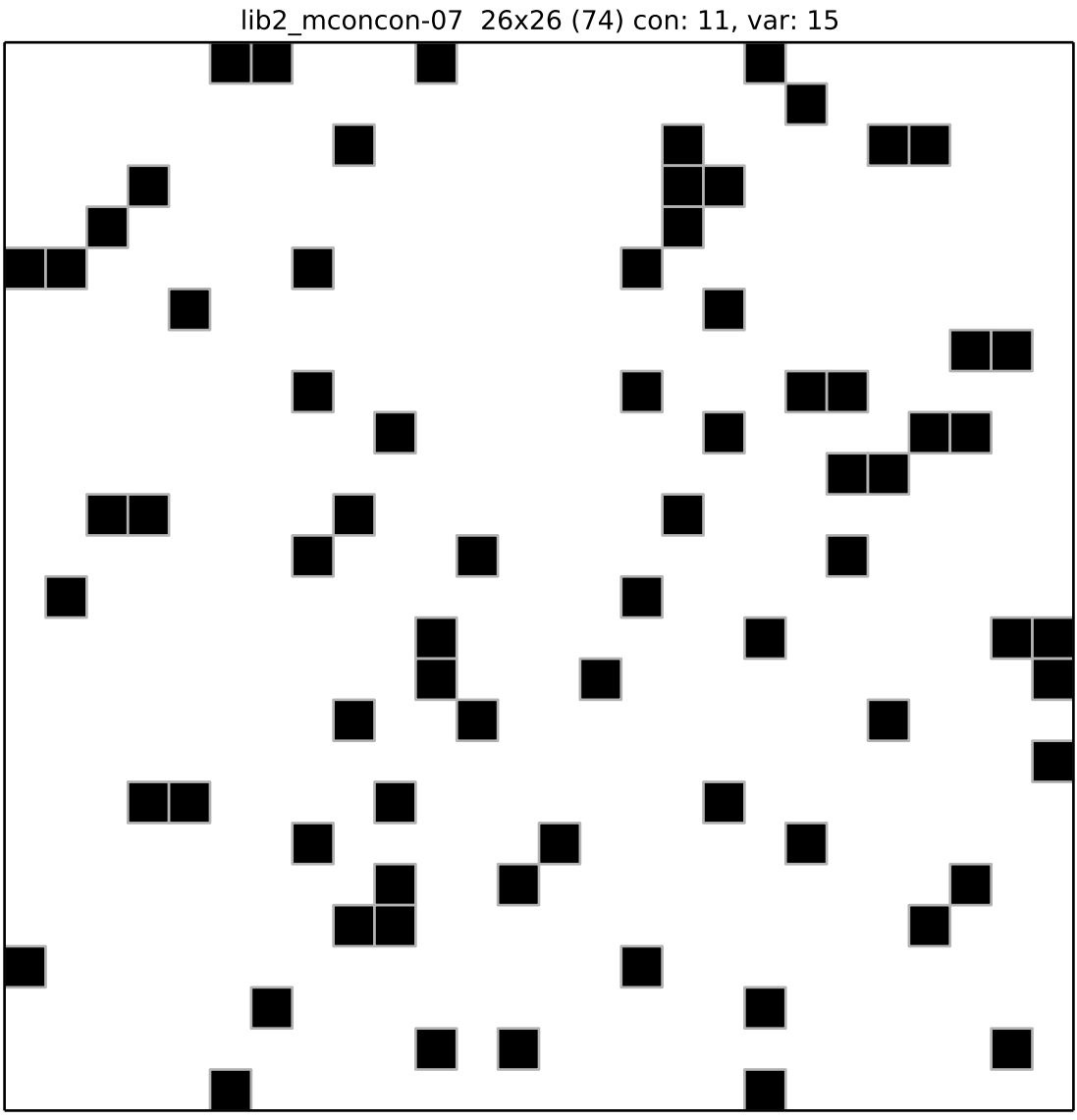
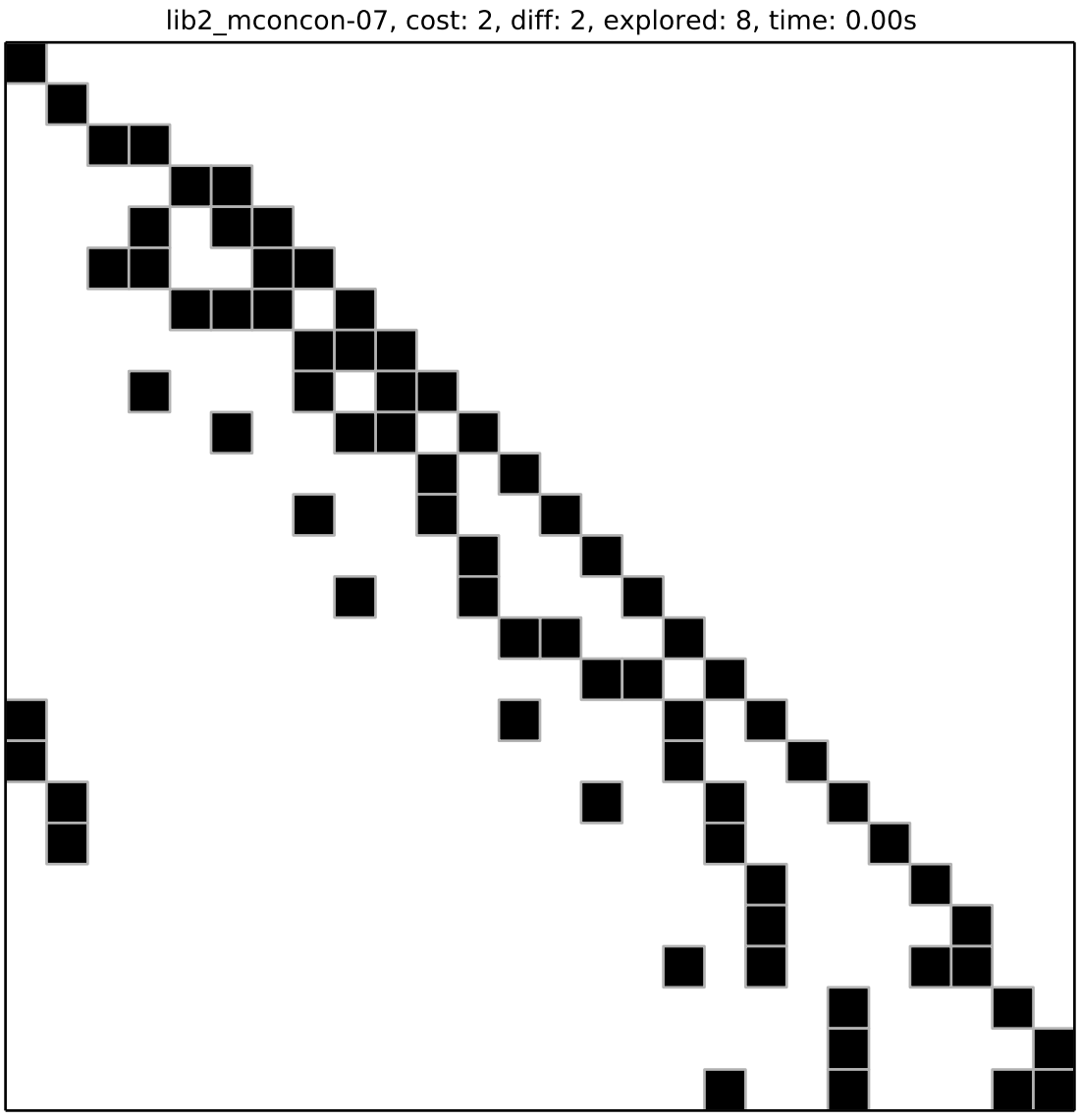

lib2_mconcon-07 26x26 (74) con: 11, var: 15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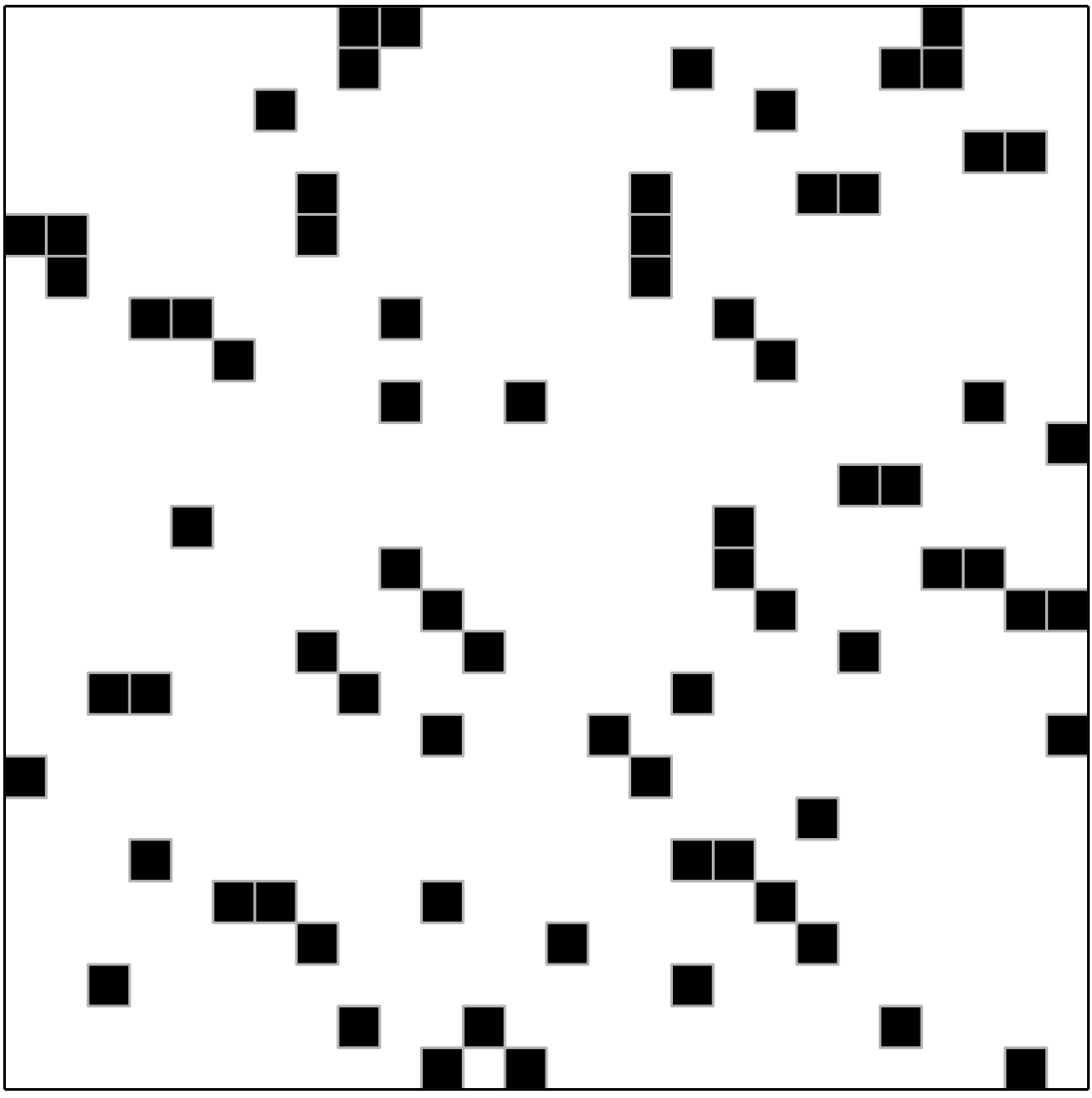
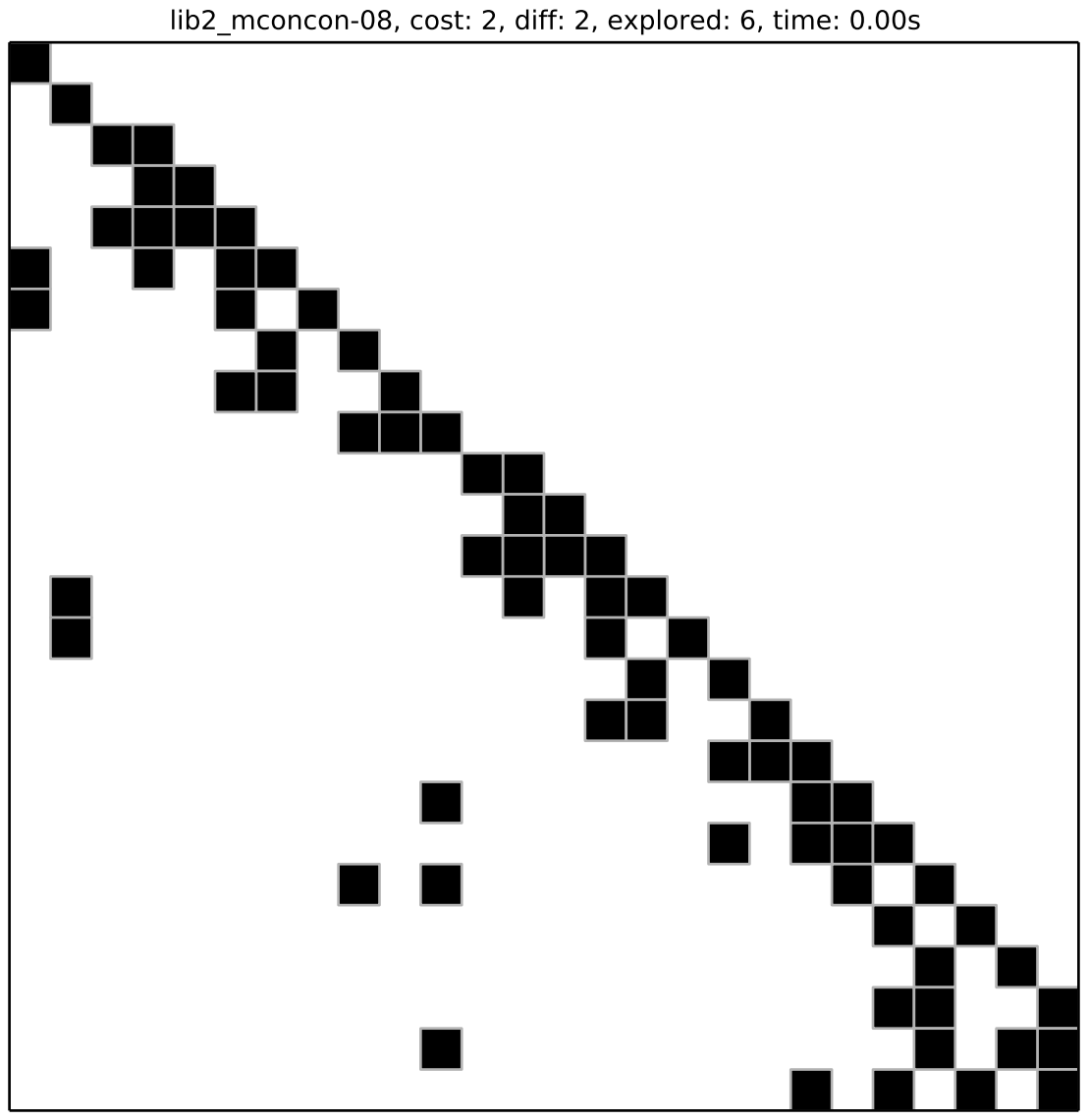

lib2_mconcon-08 26x26 (74) con: 11, var: 15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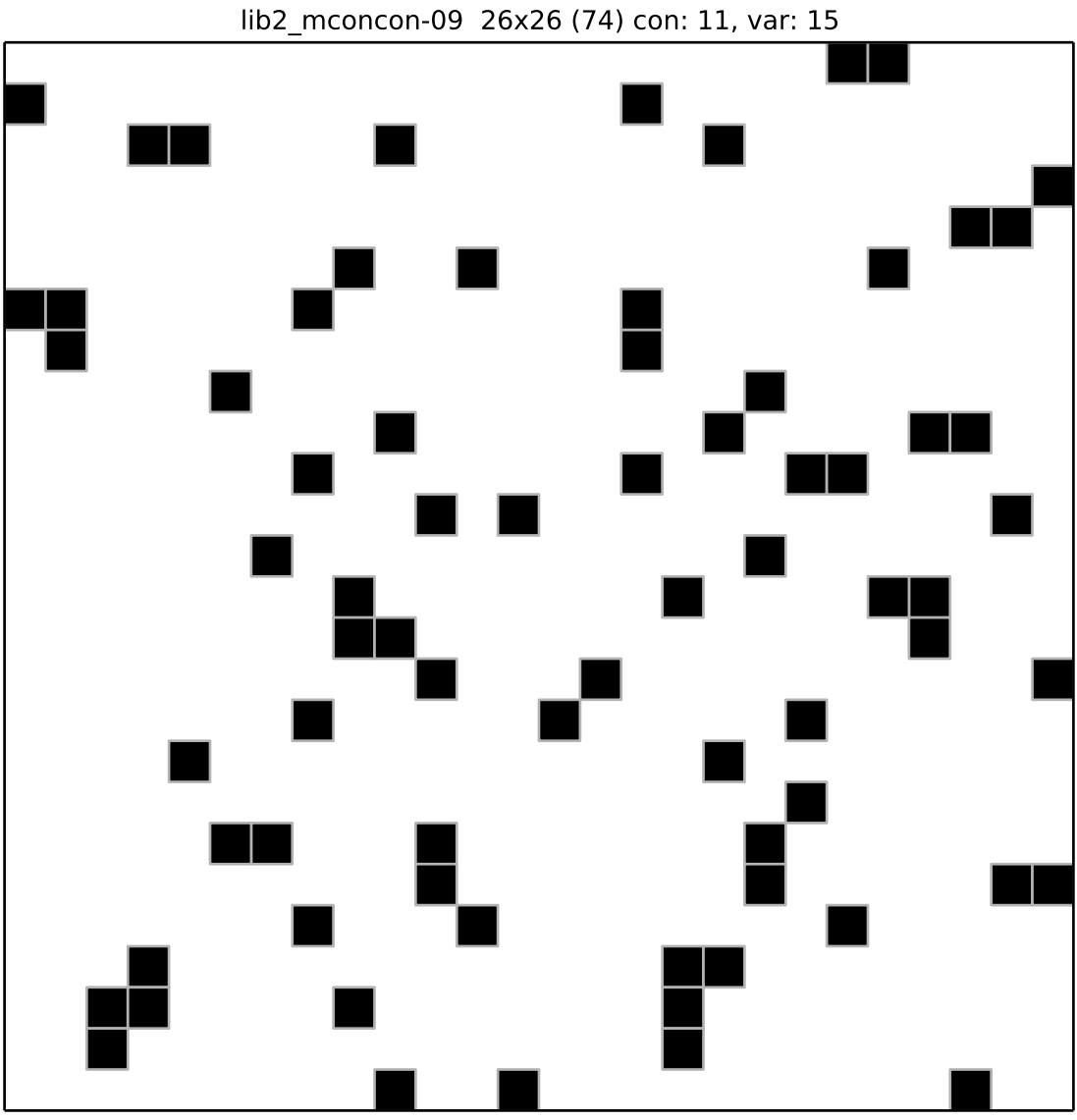
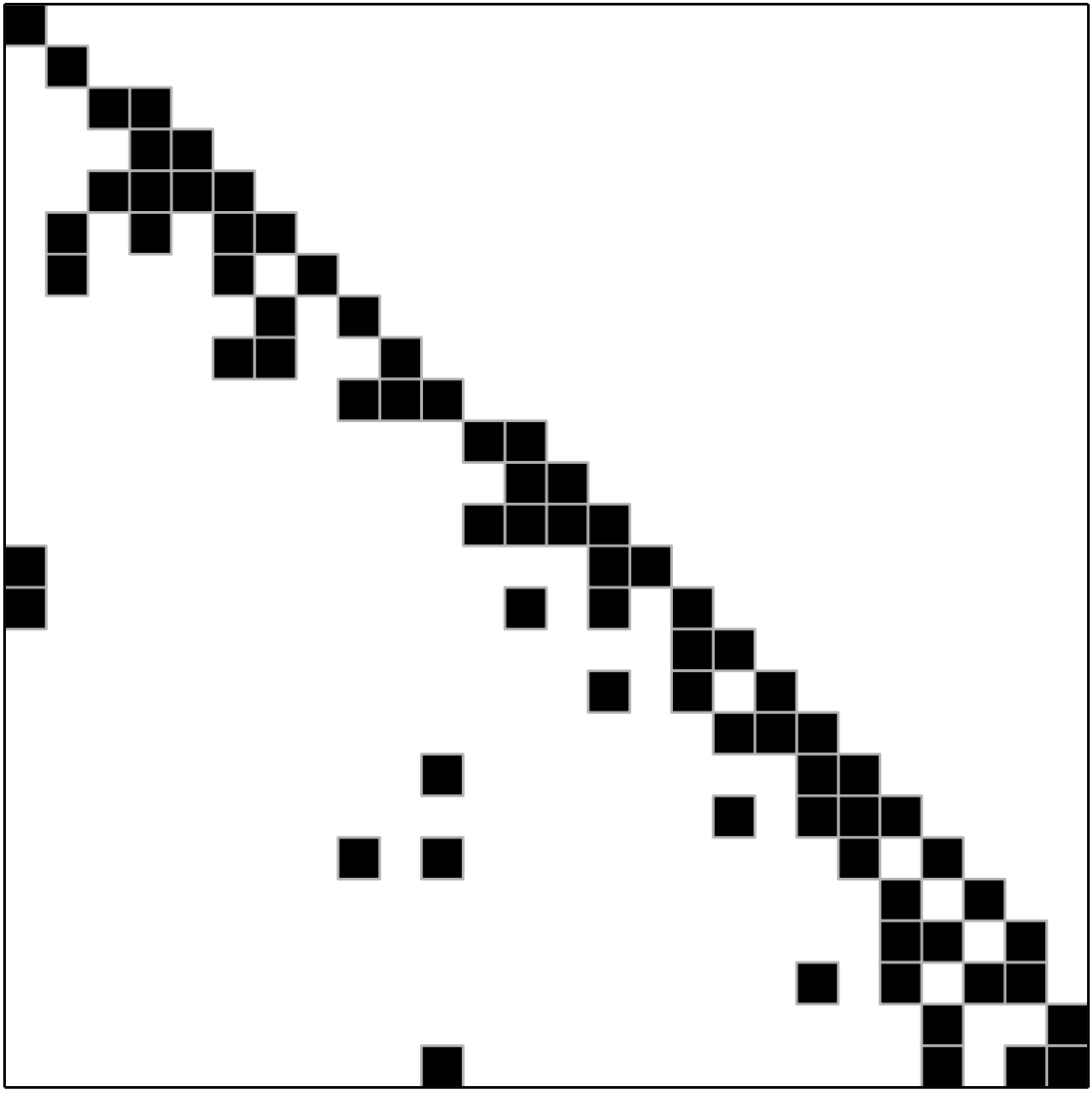
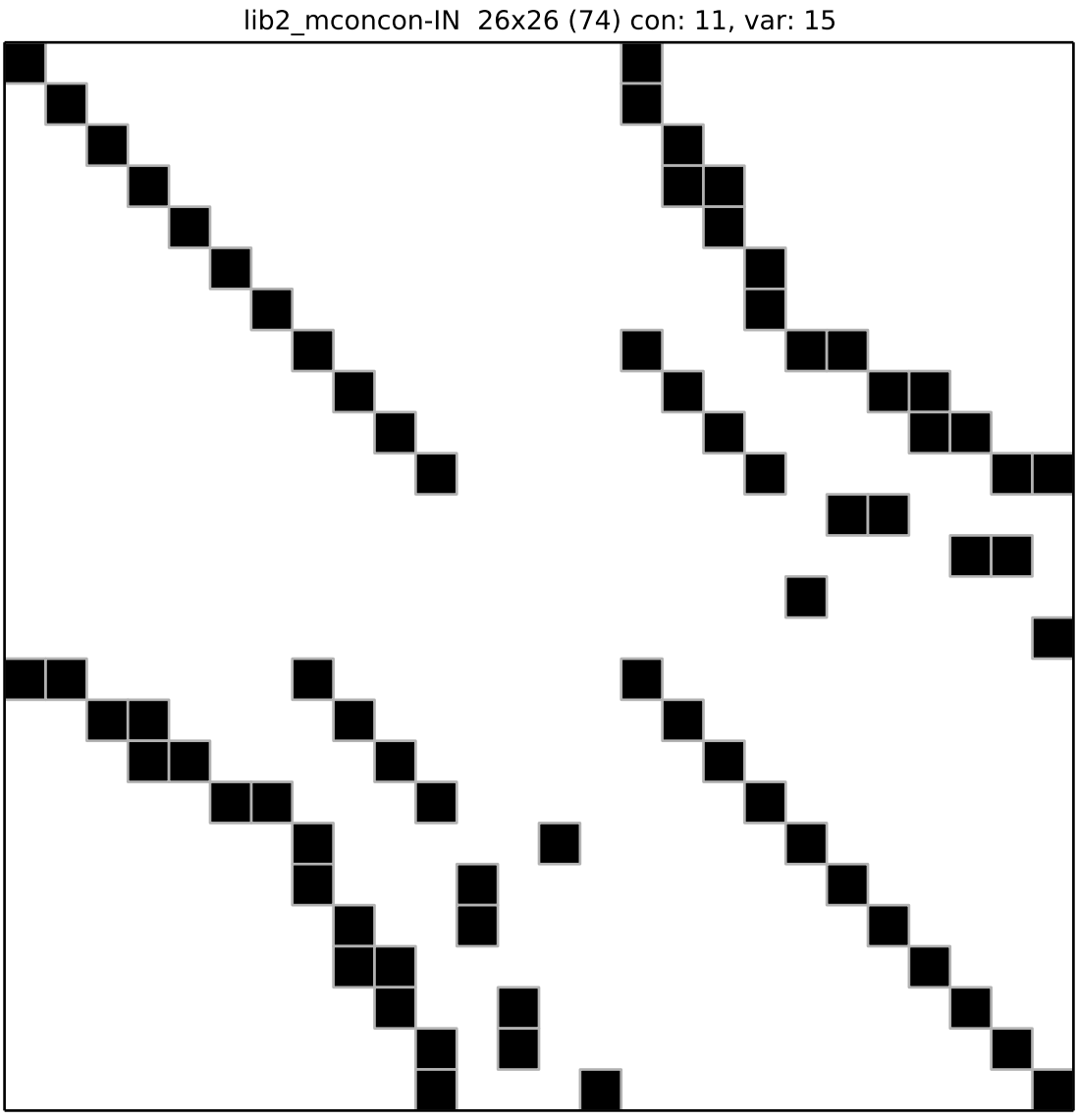
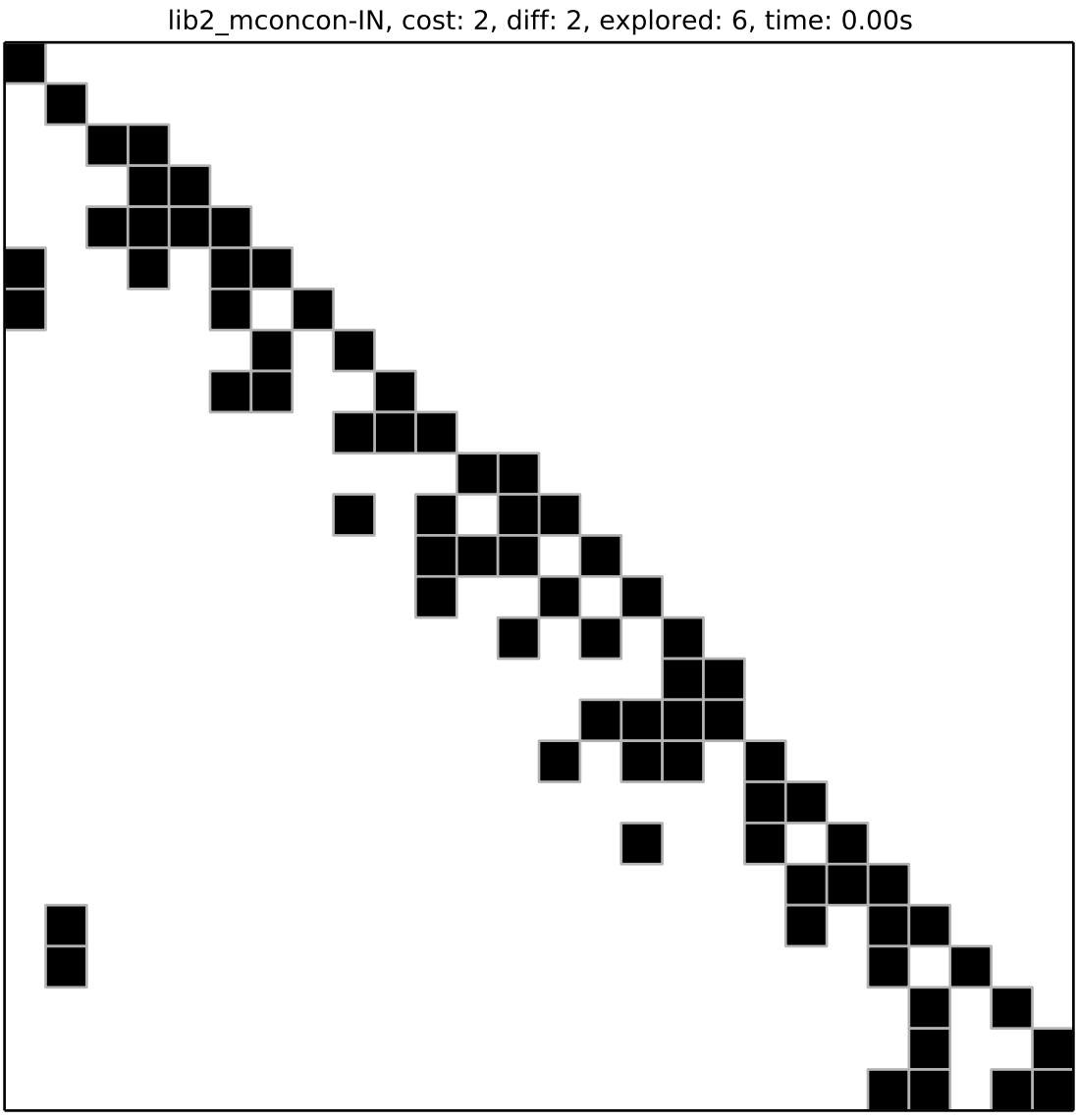

lib2_mconcon-09 26x26 (74) con: 11, var: 15

lib2_mconcon-09, cost: 2, diff: 2, explored: 15, time: 0.01s




lib2_mconcon-IN 26x26 (74) con: 11, var: 15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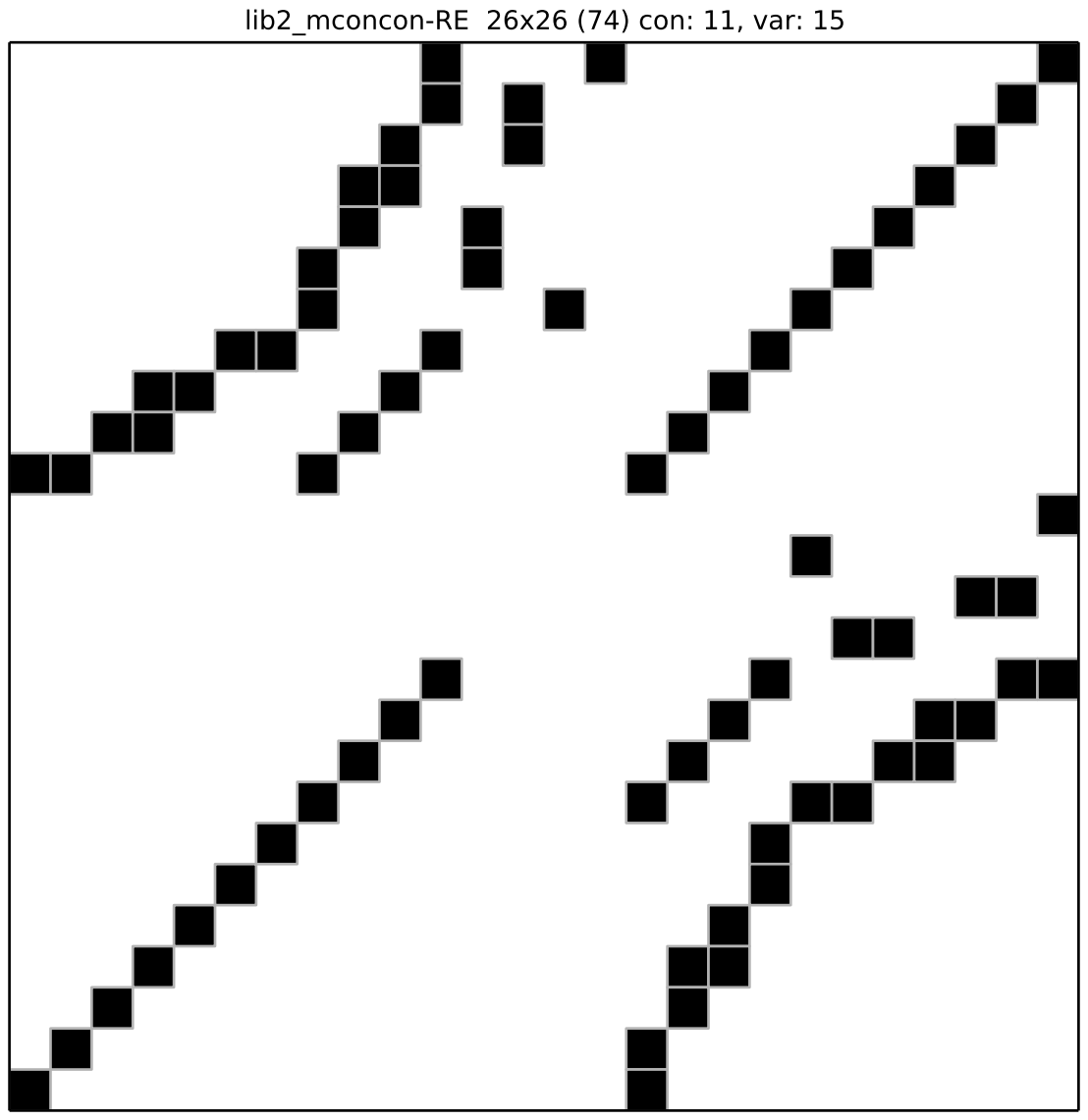
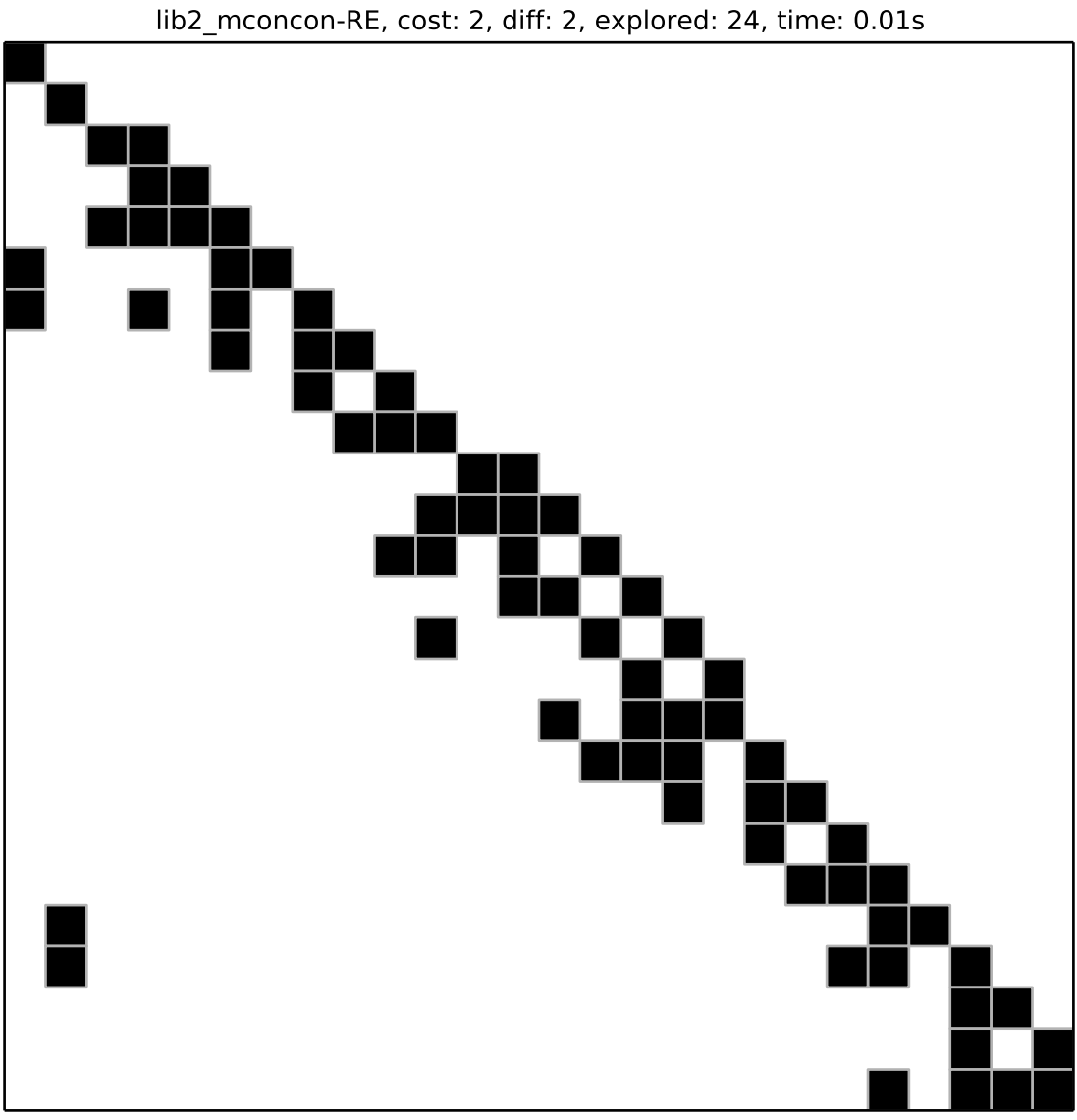

lib2_mconcon-RE 26x26 (74) con: 11, var: 15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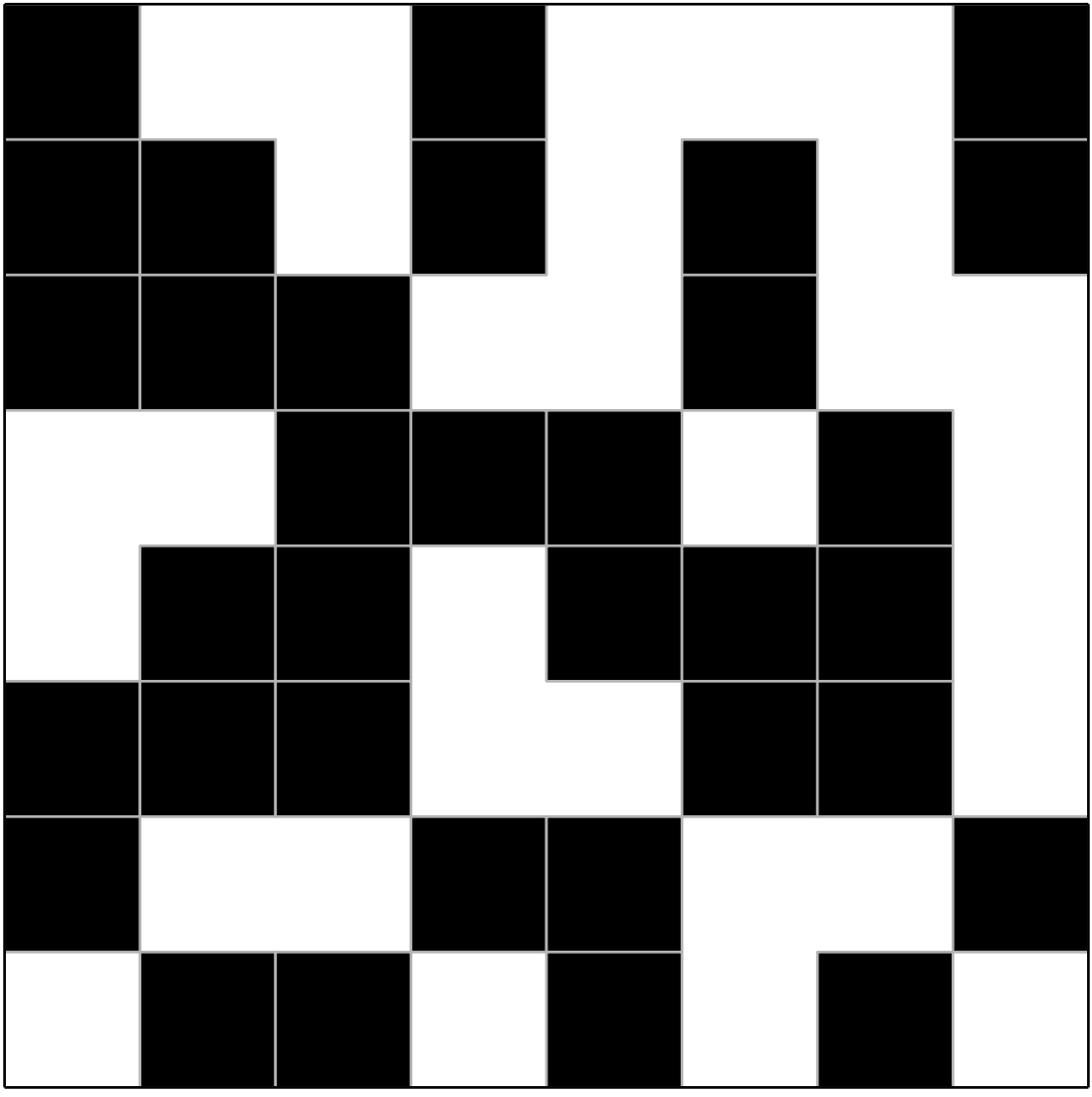
lib2_mwright-00 8x8 (34) con: 3, var: 5



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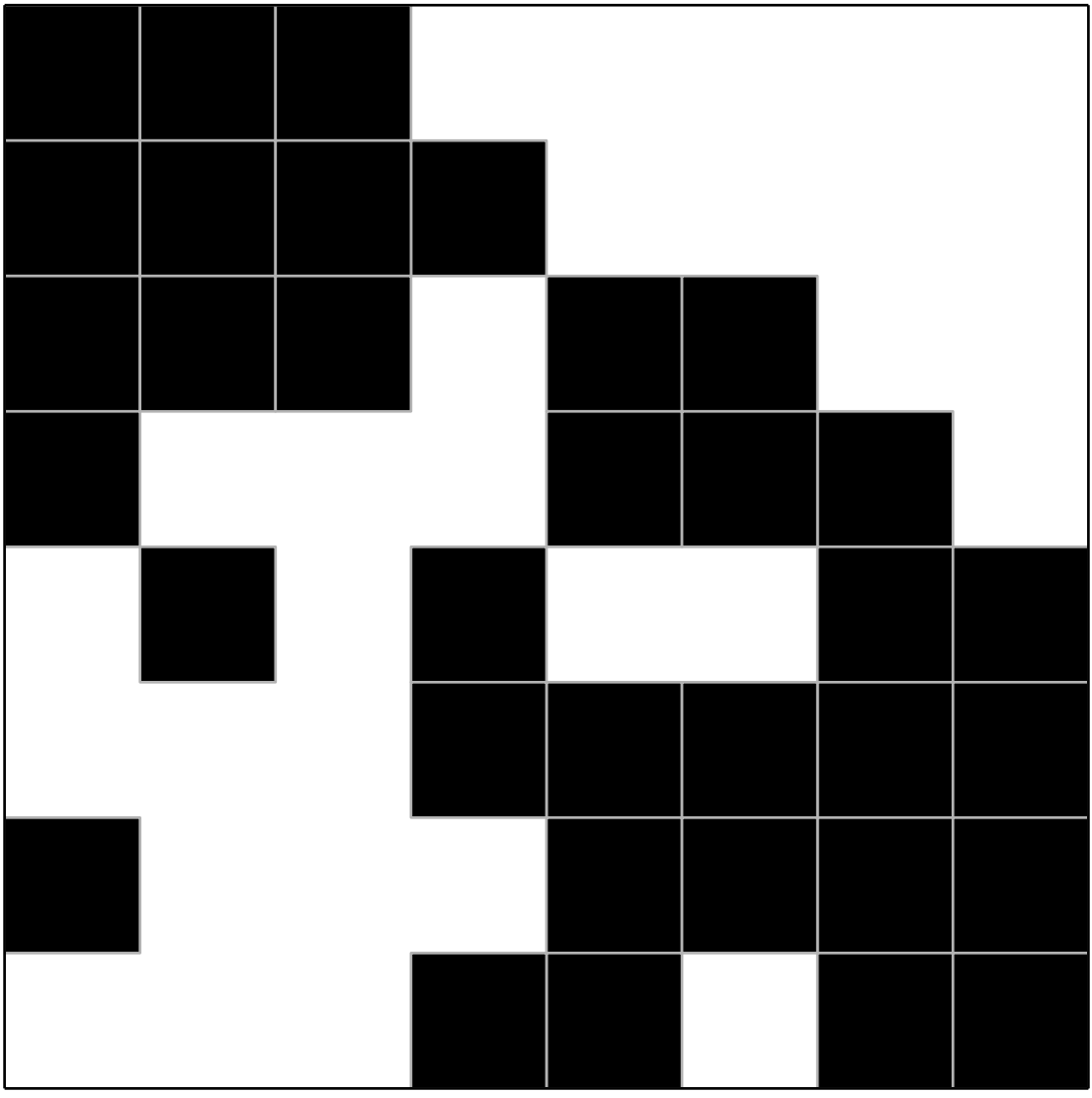
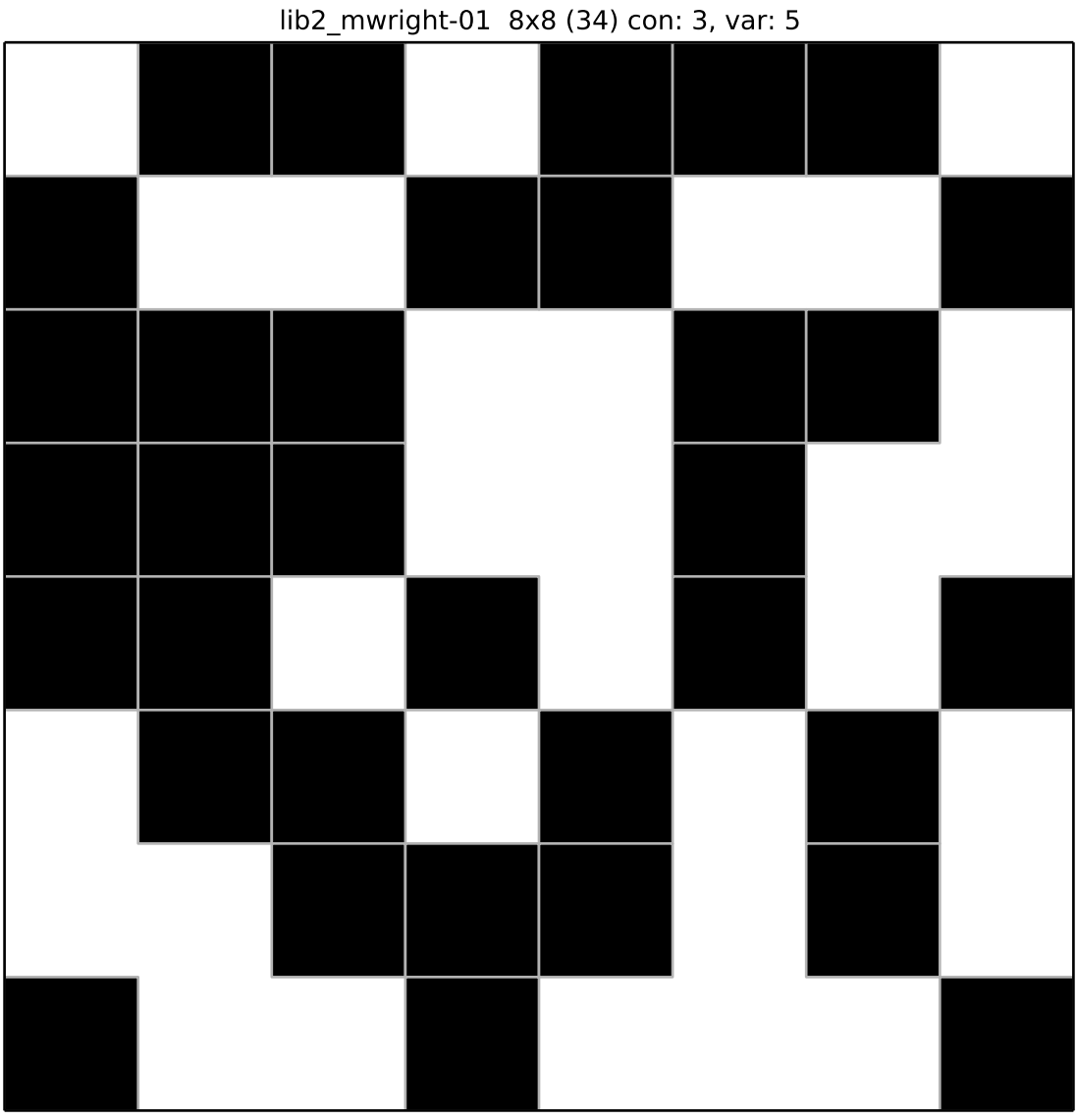
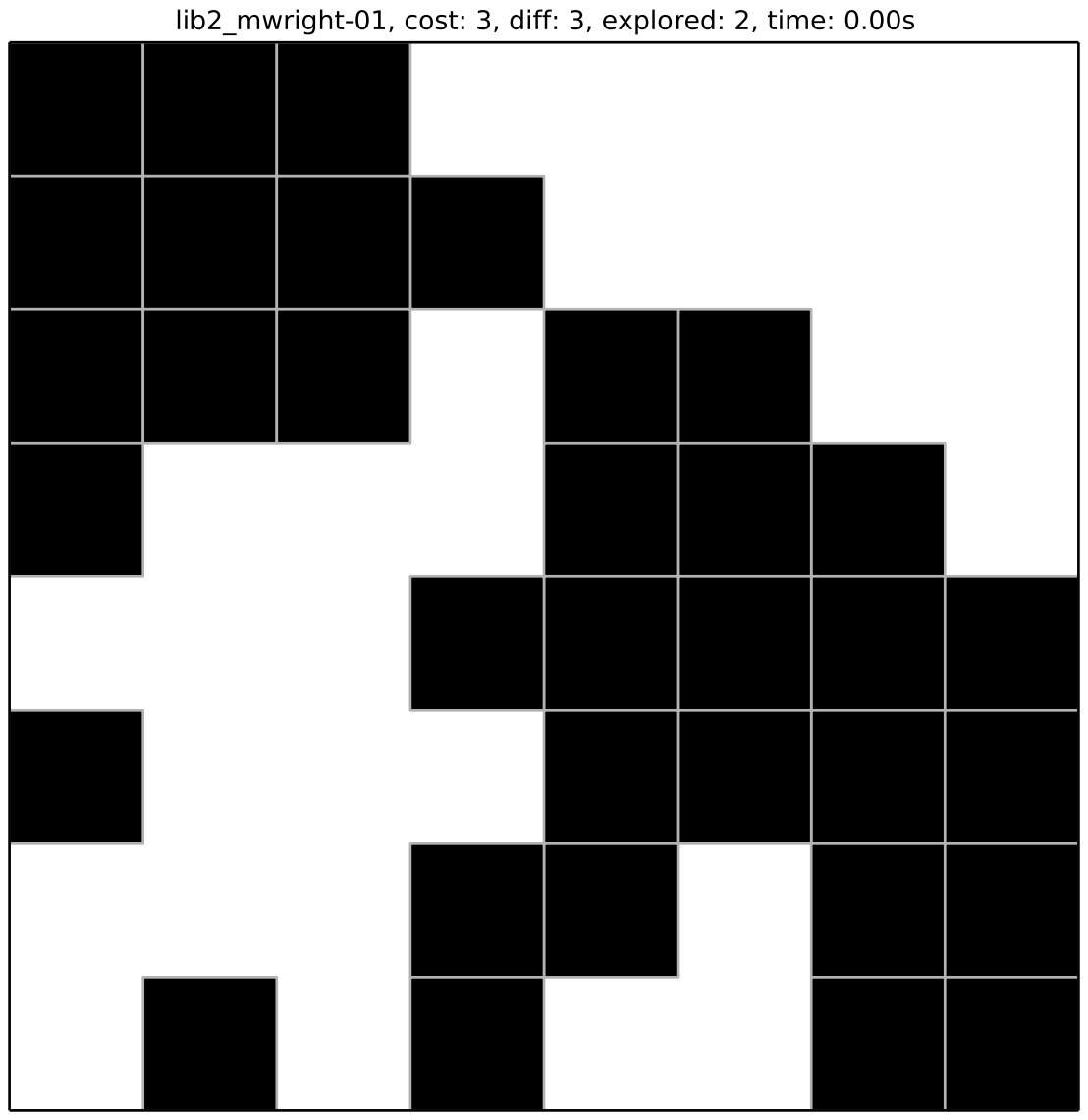



lib2_mwright-01 8x8 (34) con: 3, var: 5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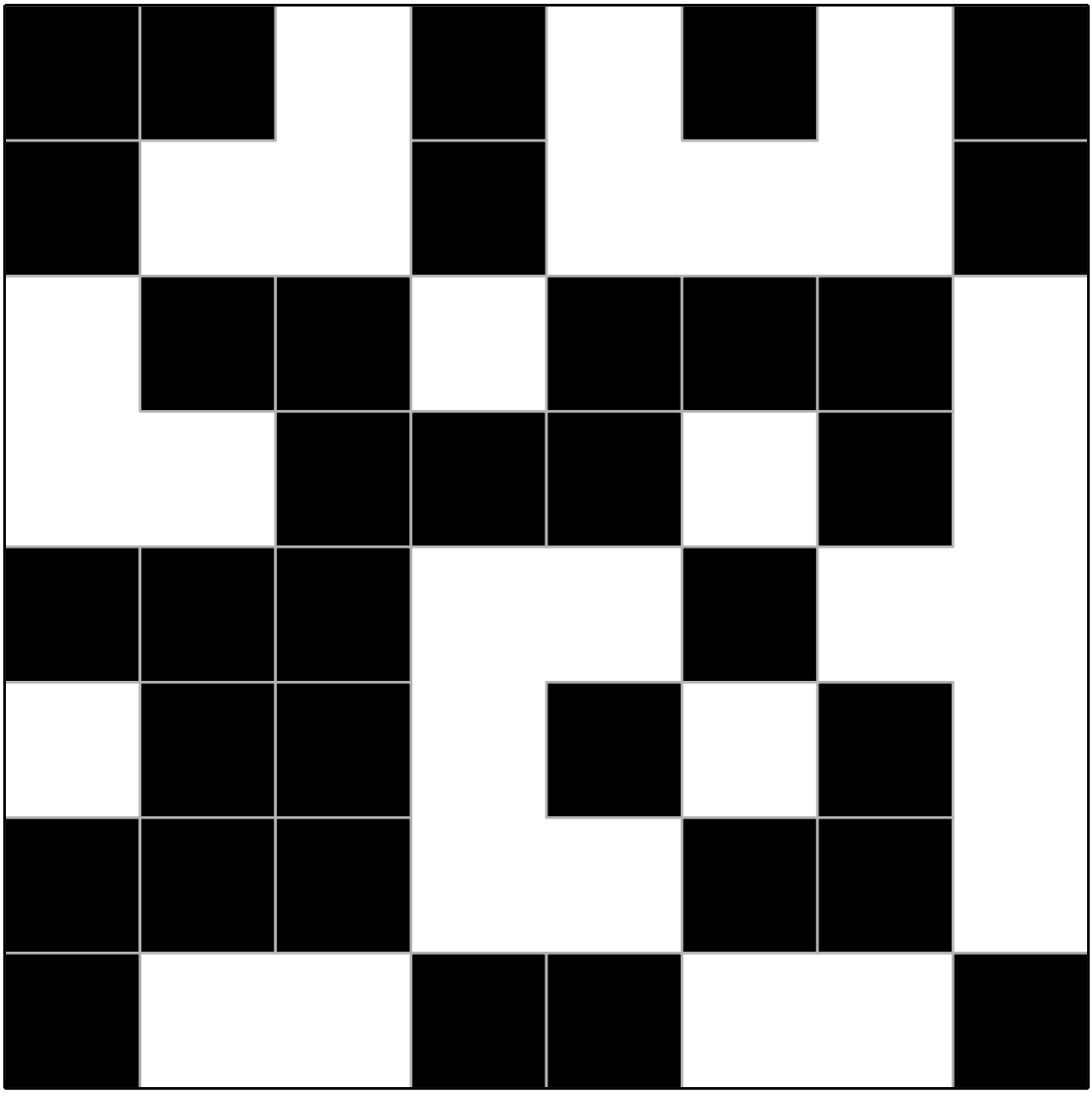
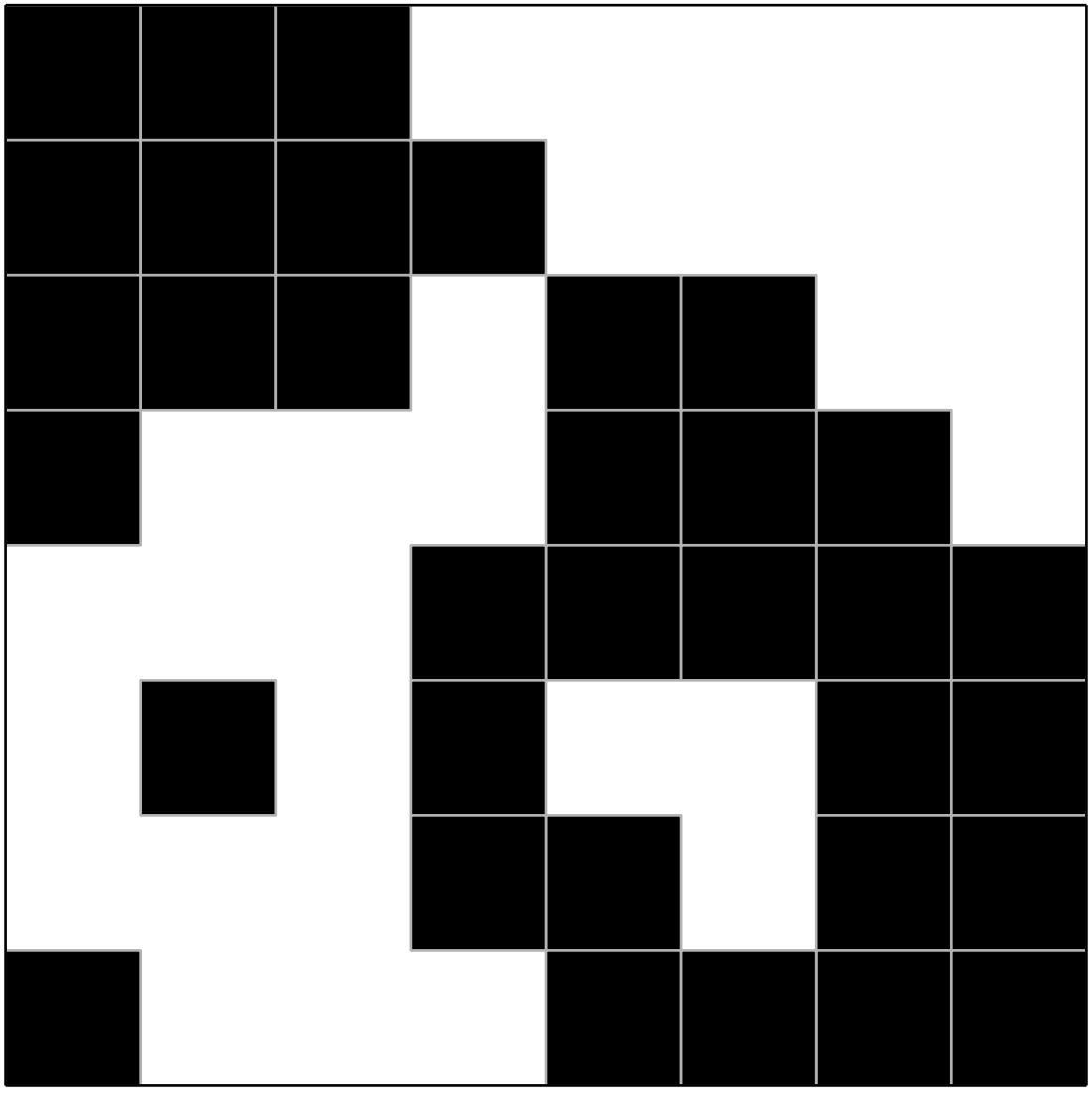
lib2_mwright-02 8x8 (34) con: 3, var: 5

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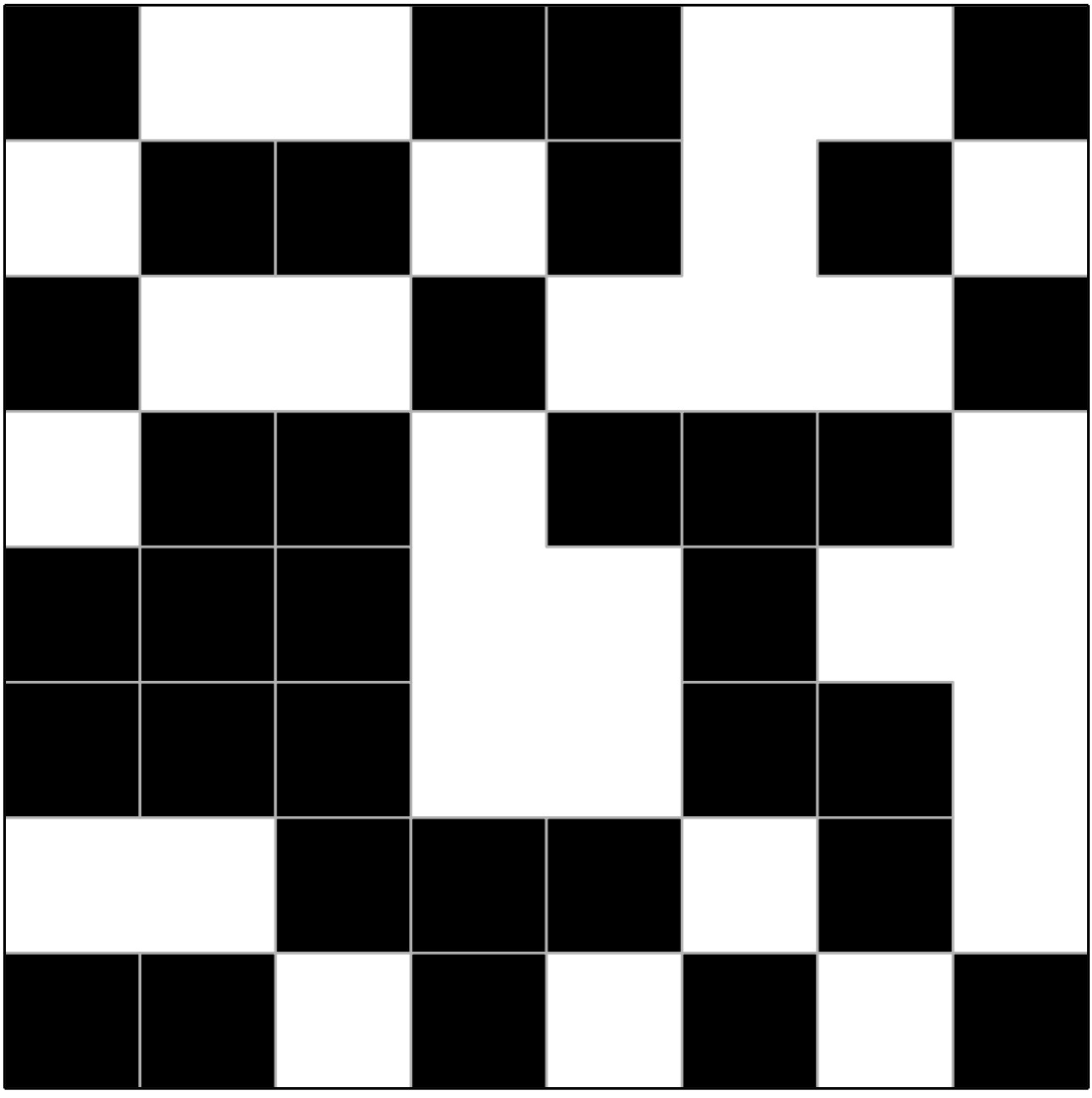
lib2_mwright-03 8x8 (34) con: 3, var: 5



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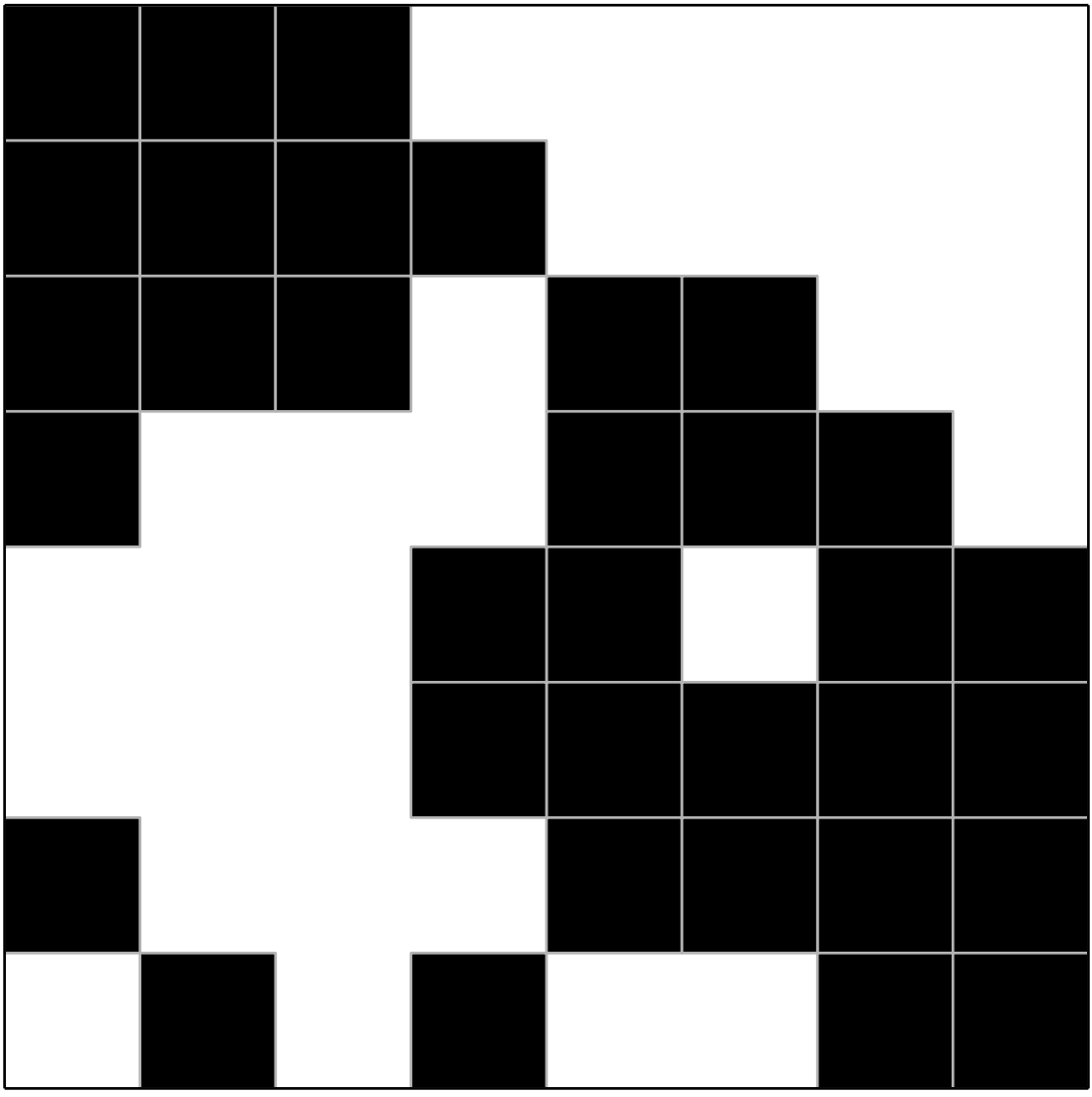
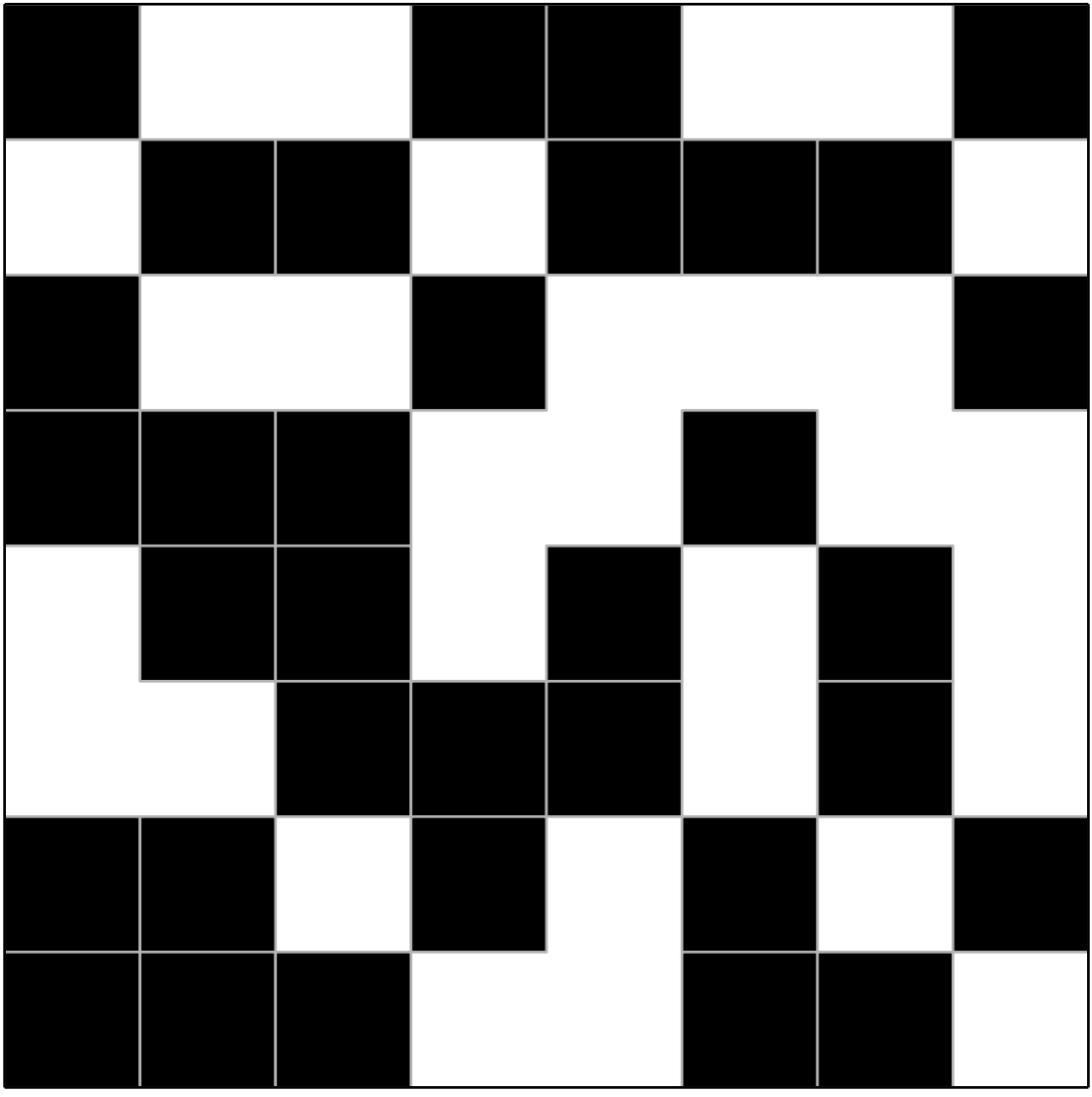
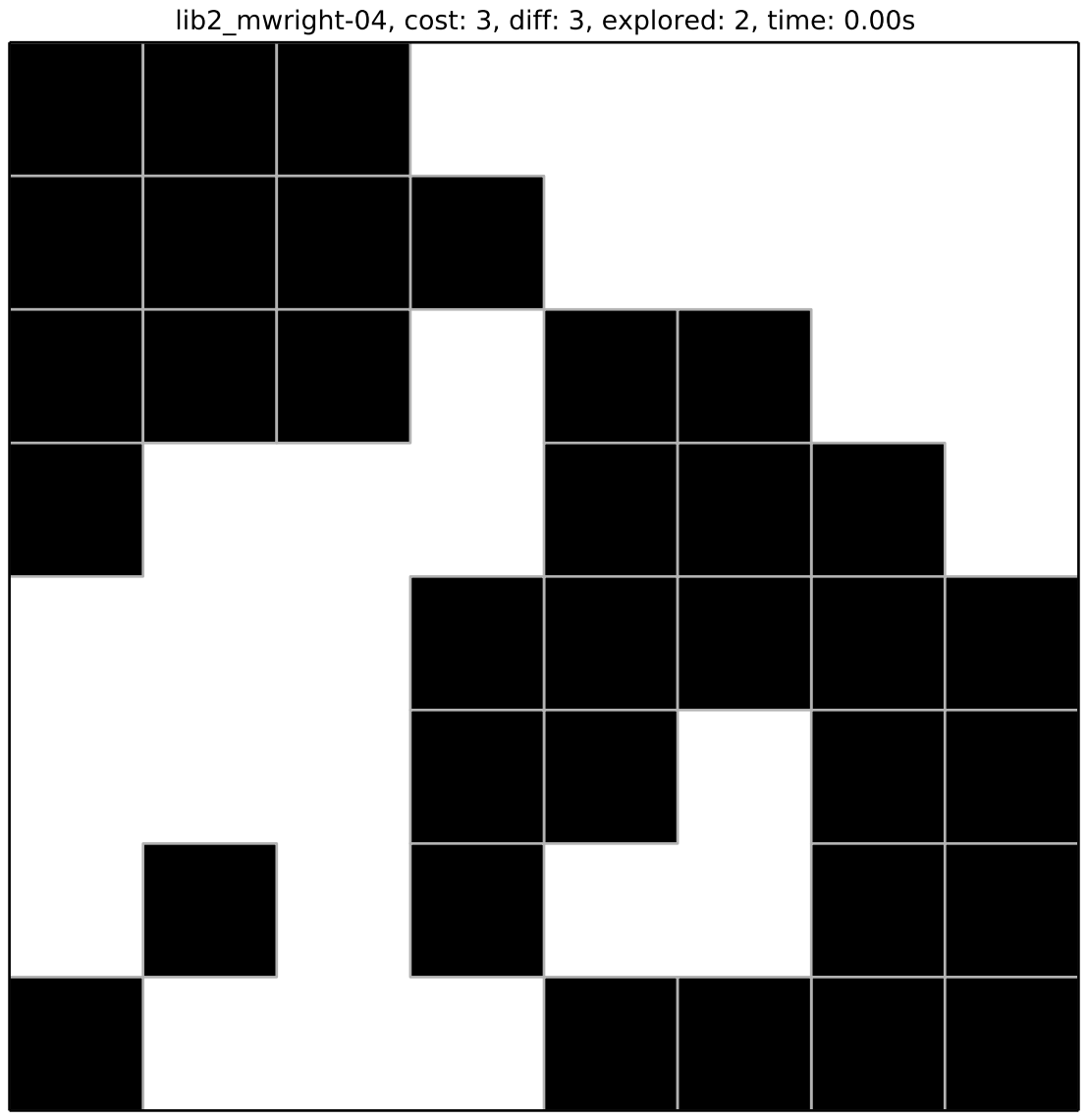


lib2_mwright-04 8x8 (34) con: 3, var: 5

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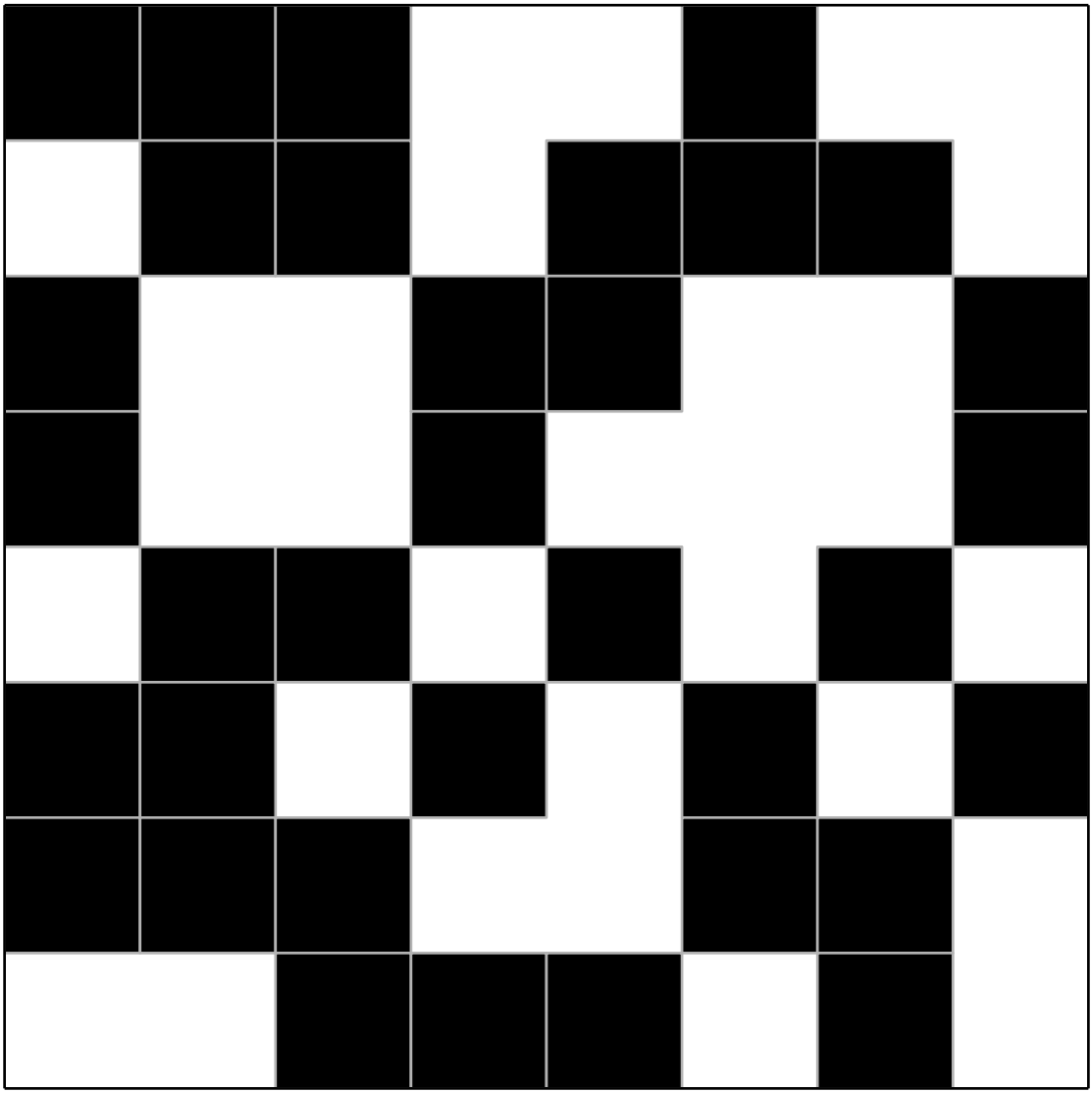

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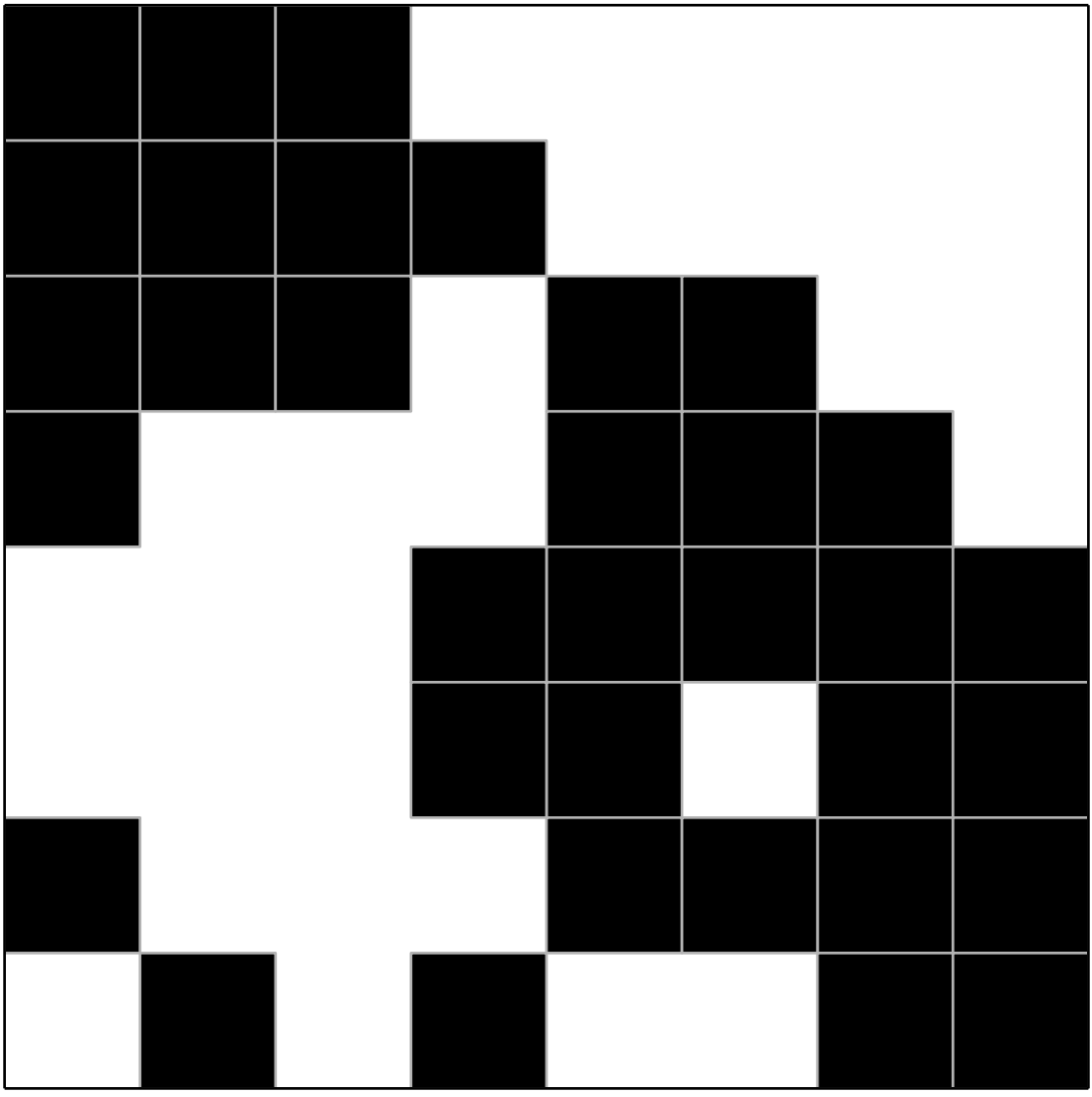

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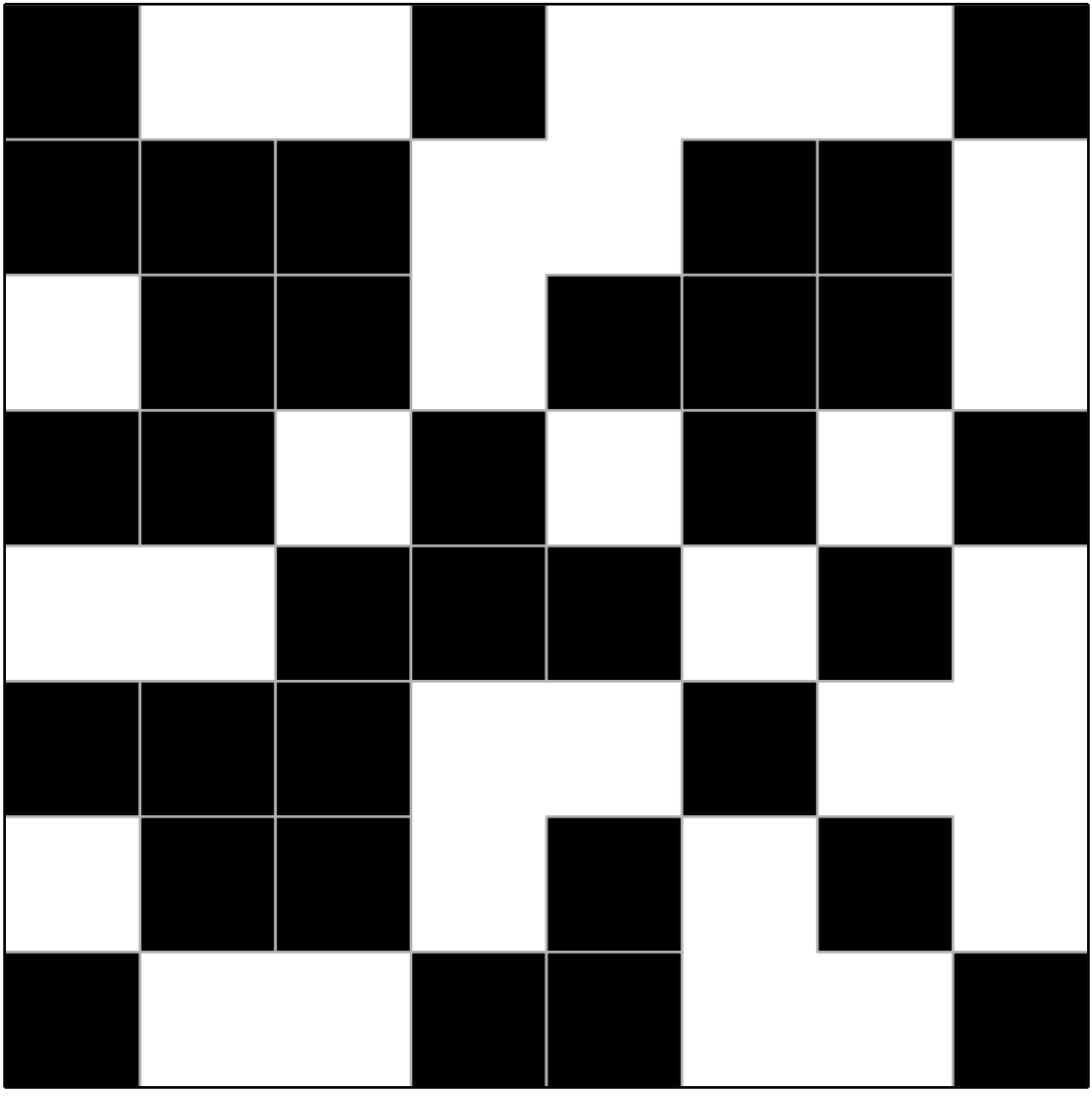

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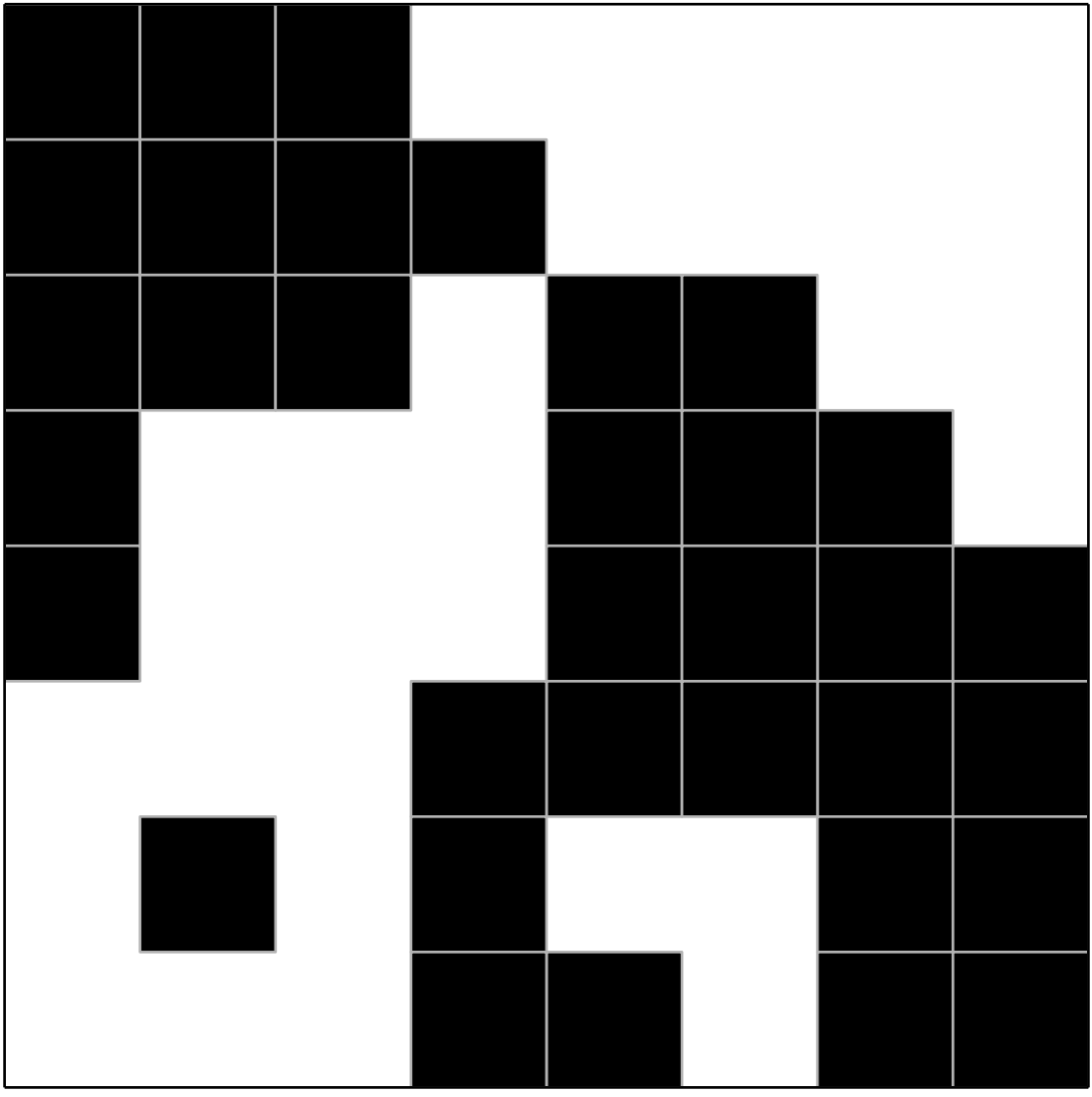

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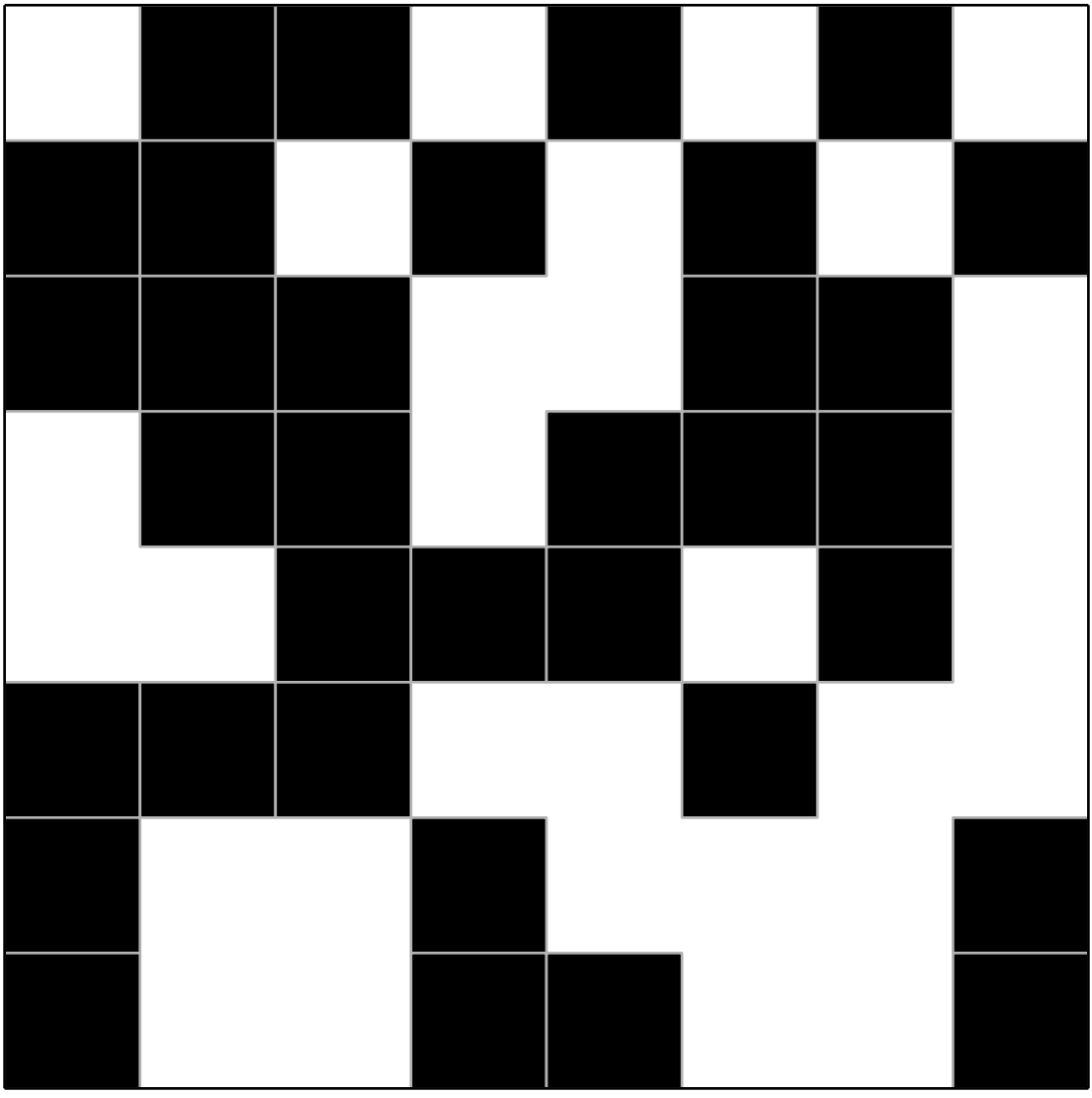

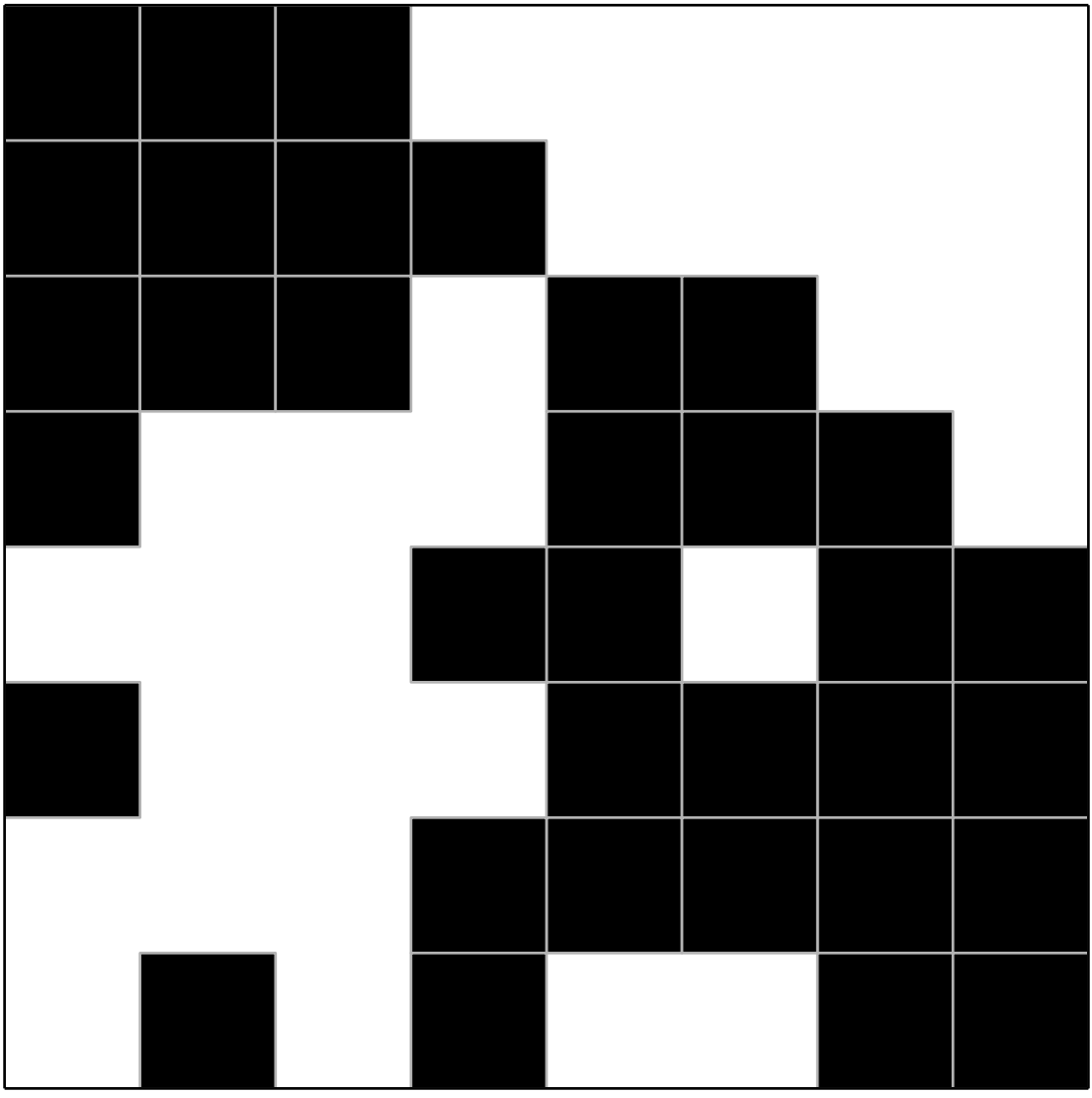
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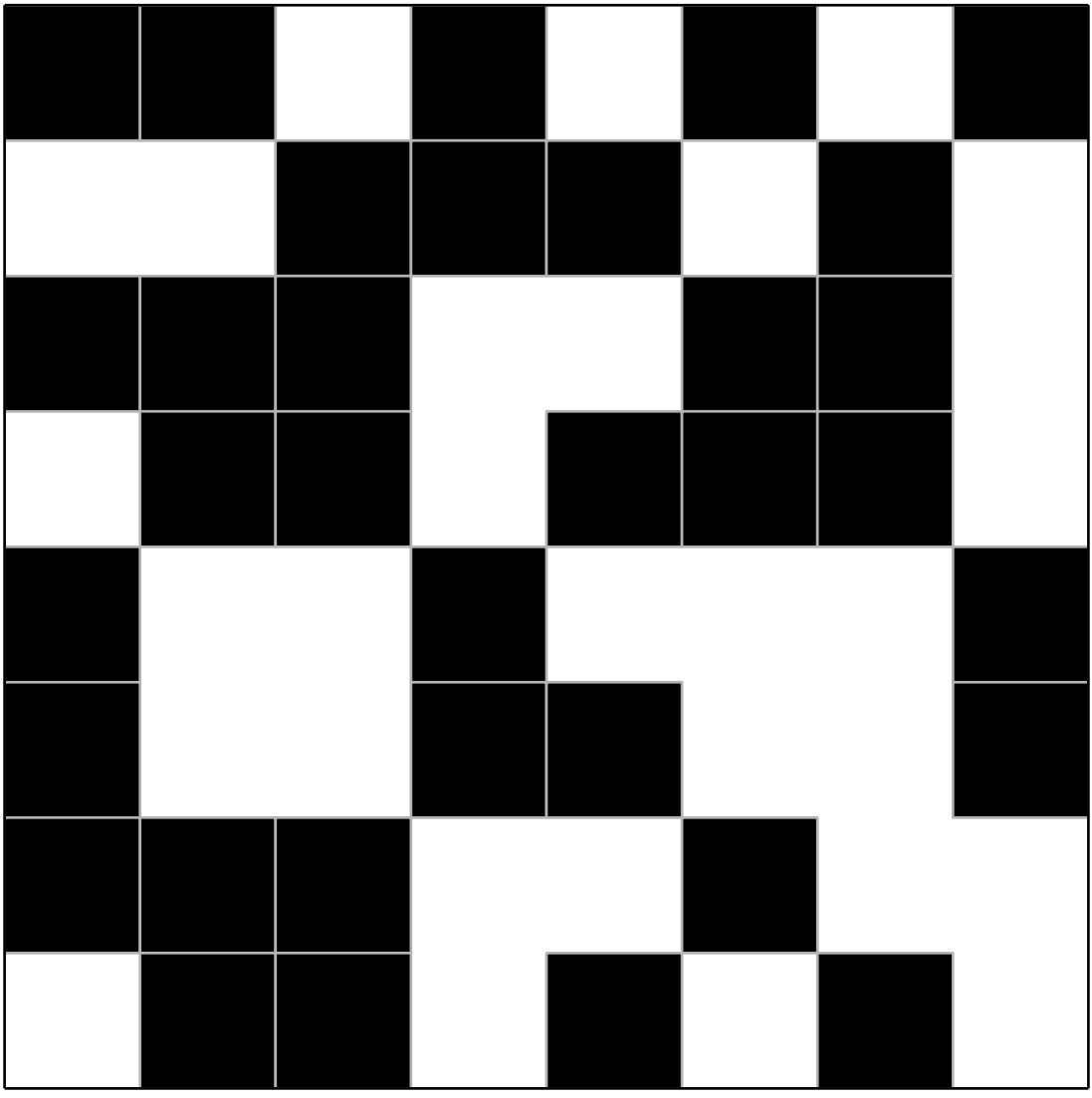
lib2_mwright-08 8x8 (34) con: 3, var: 5



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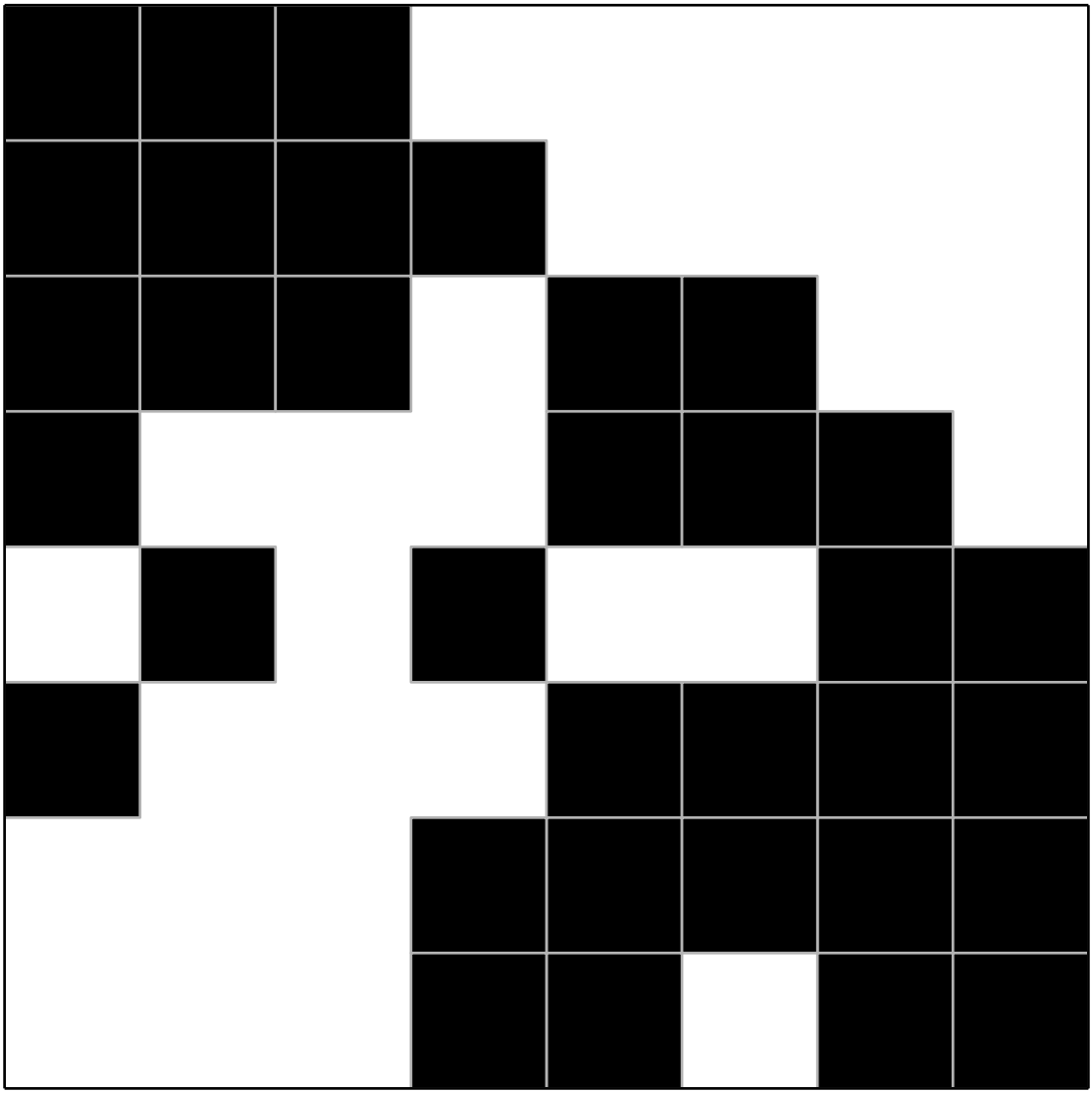
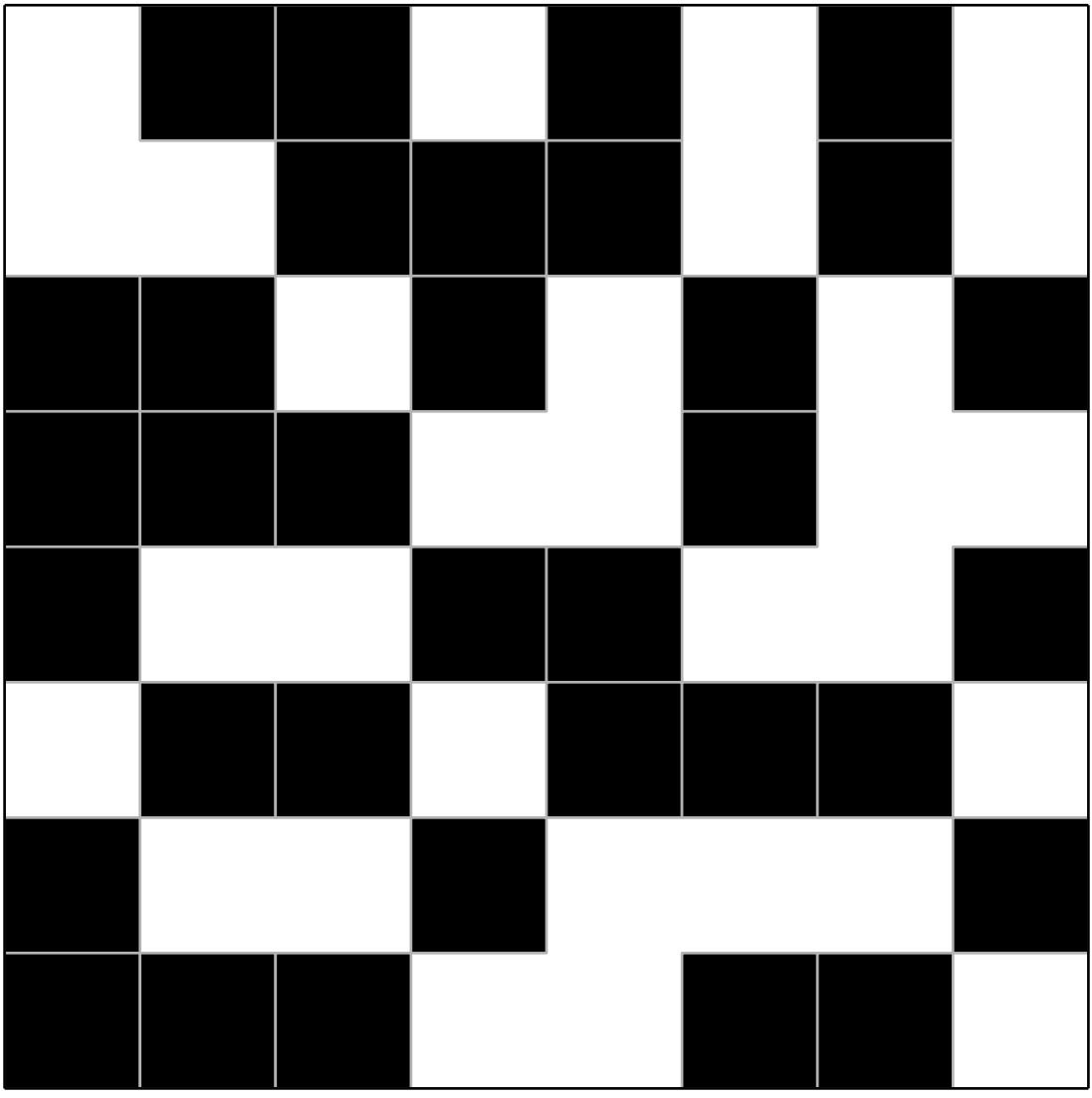
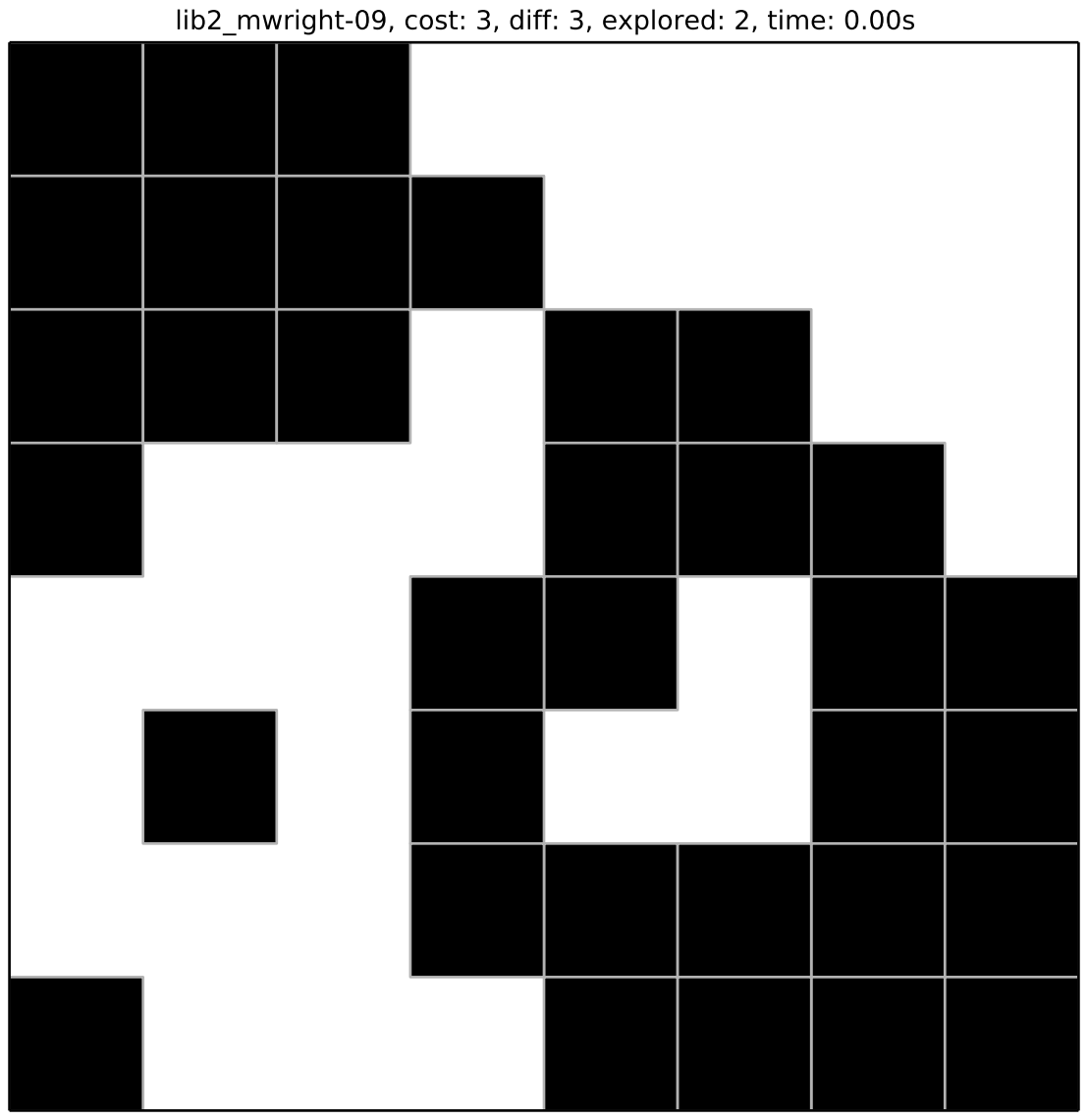


lib2_mwright-09 8x8 (34) con: 3, var: 5

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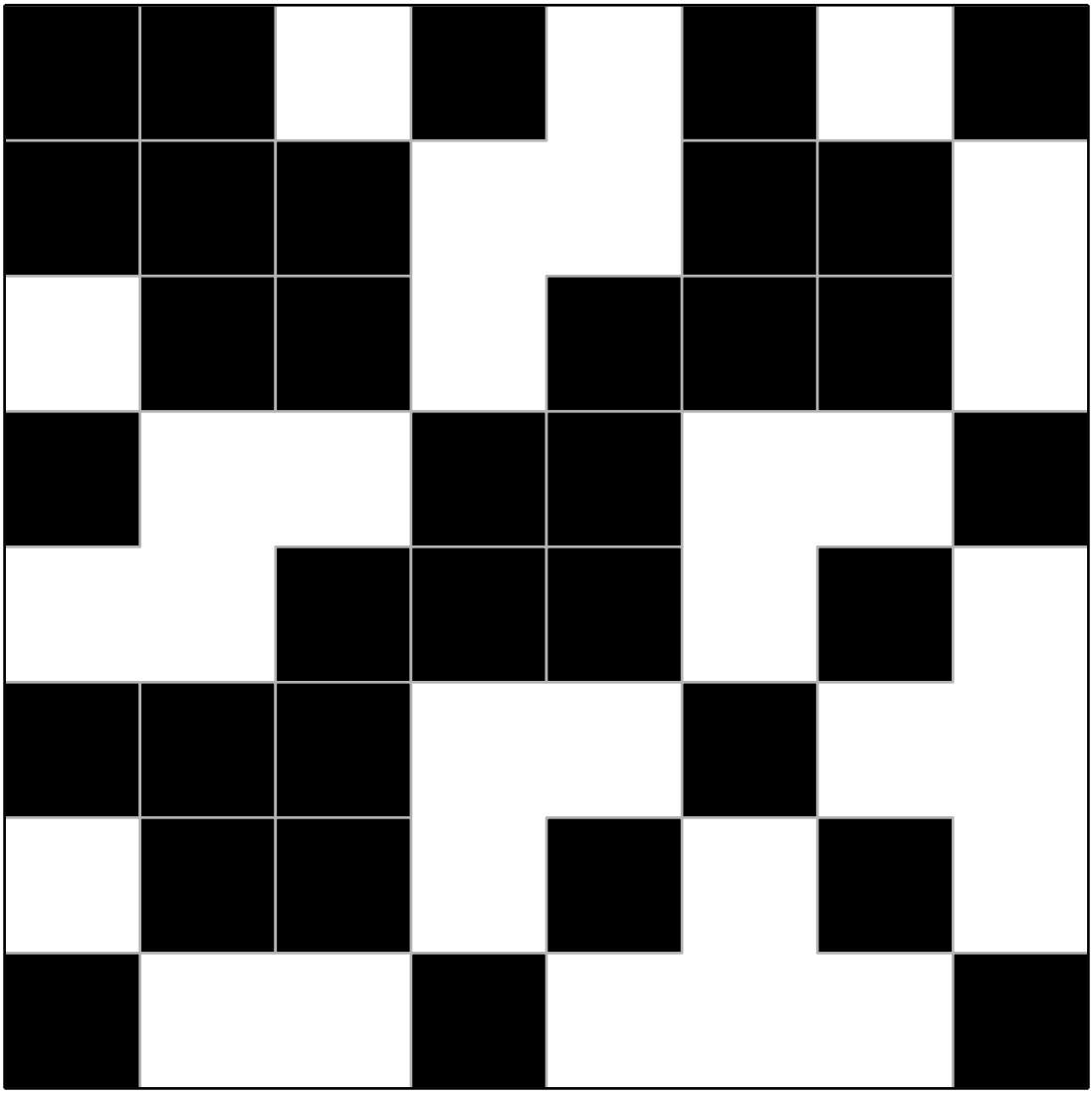
lib2_mwright-IN 8x8 (34) con: 3, var: 5



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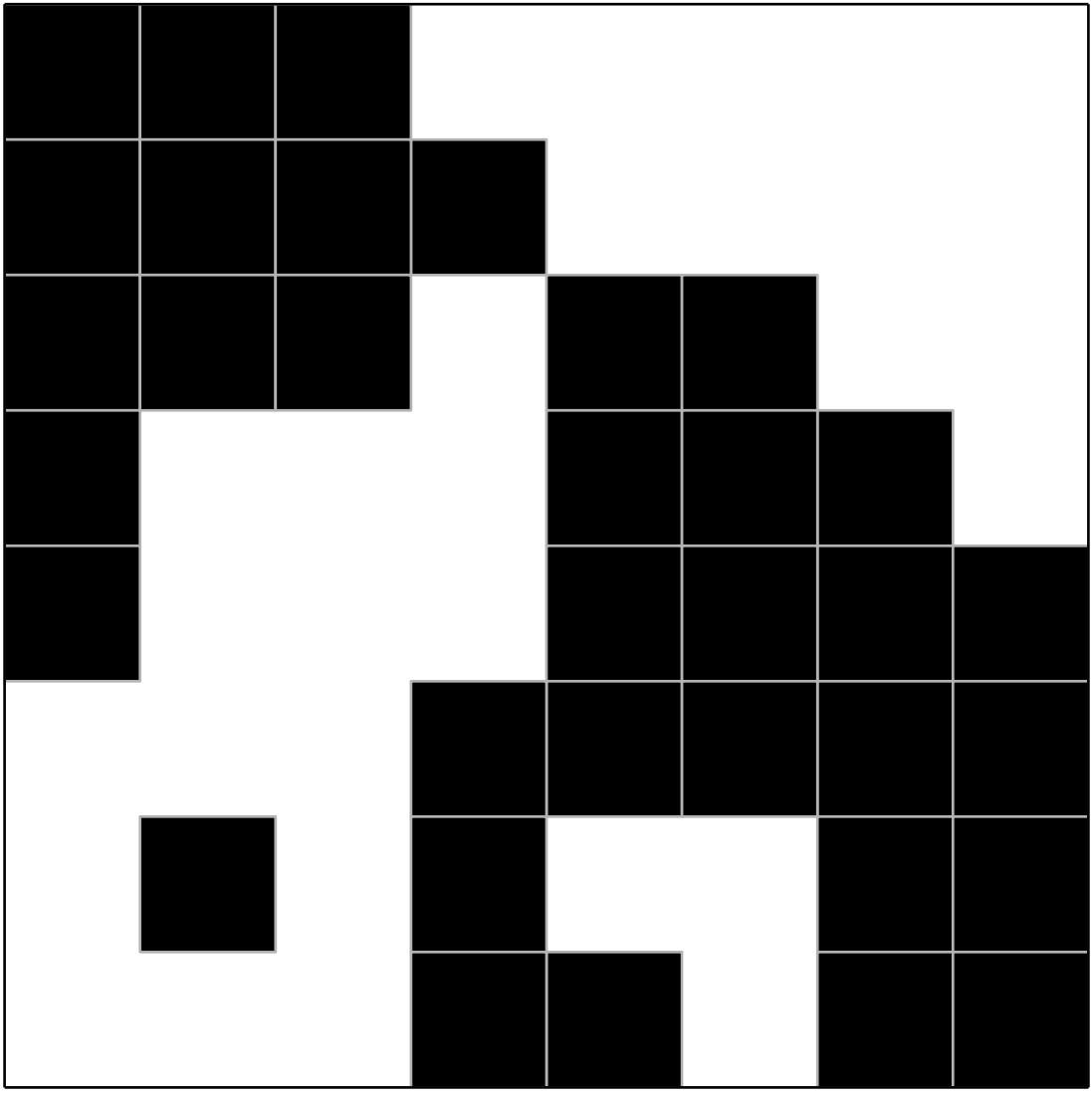
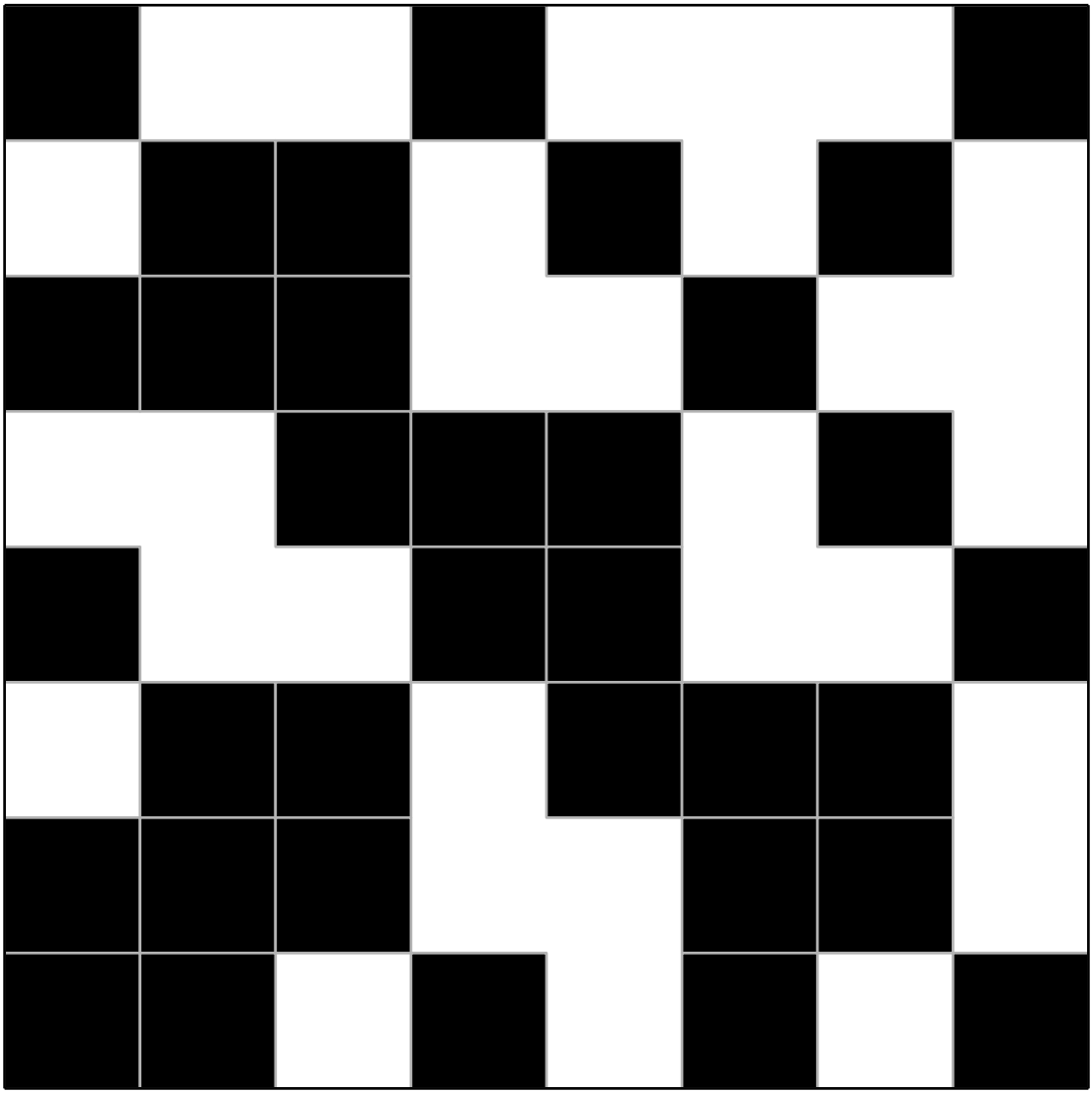
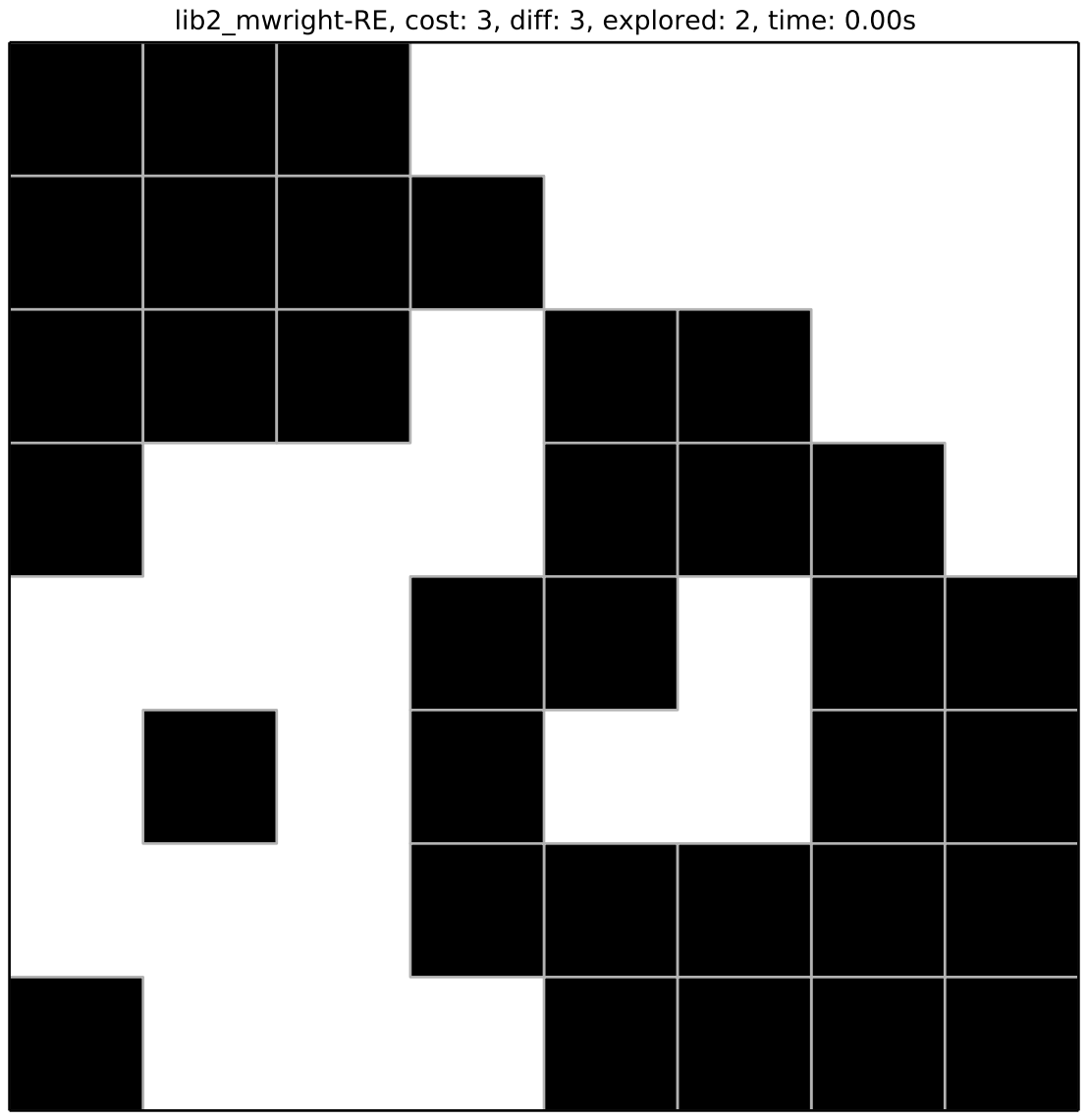


lib2_mwright-RE 8x8 (34) con: 3, var: 5

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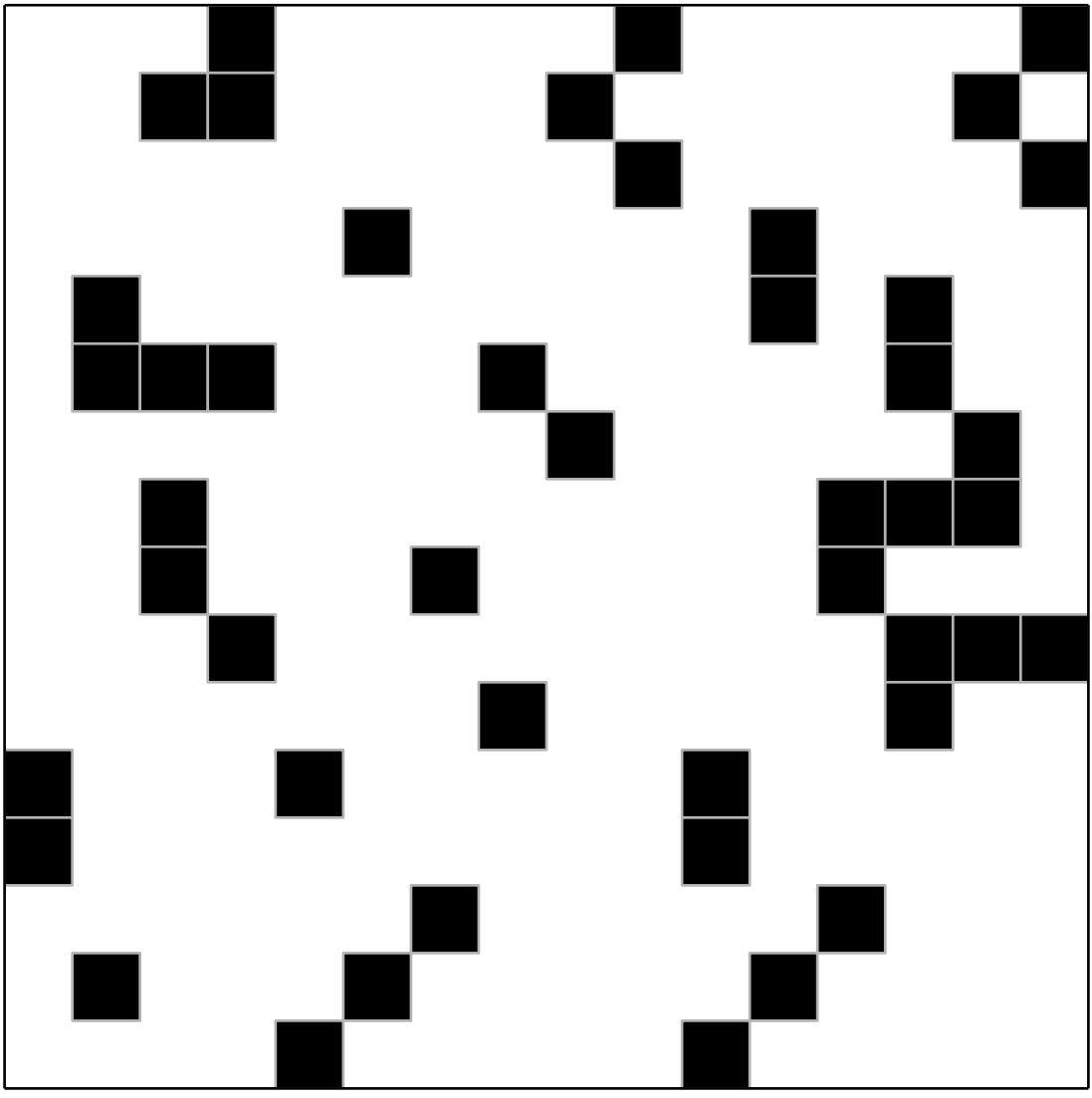
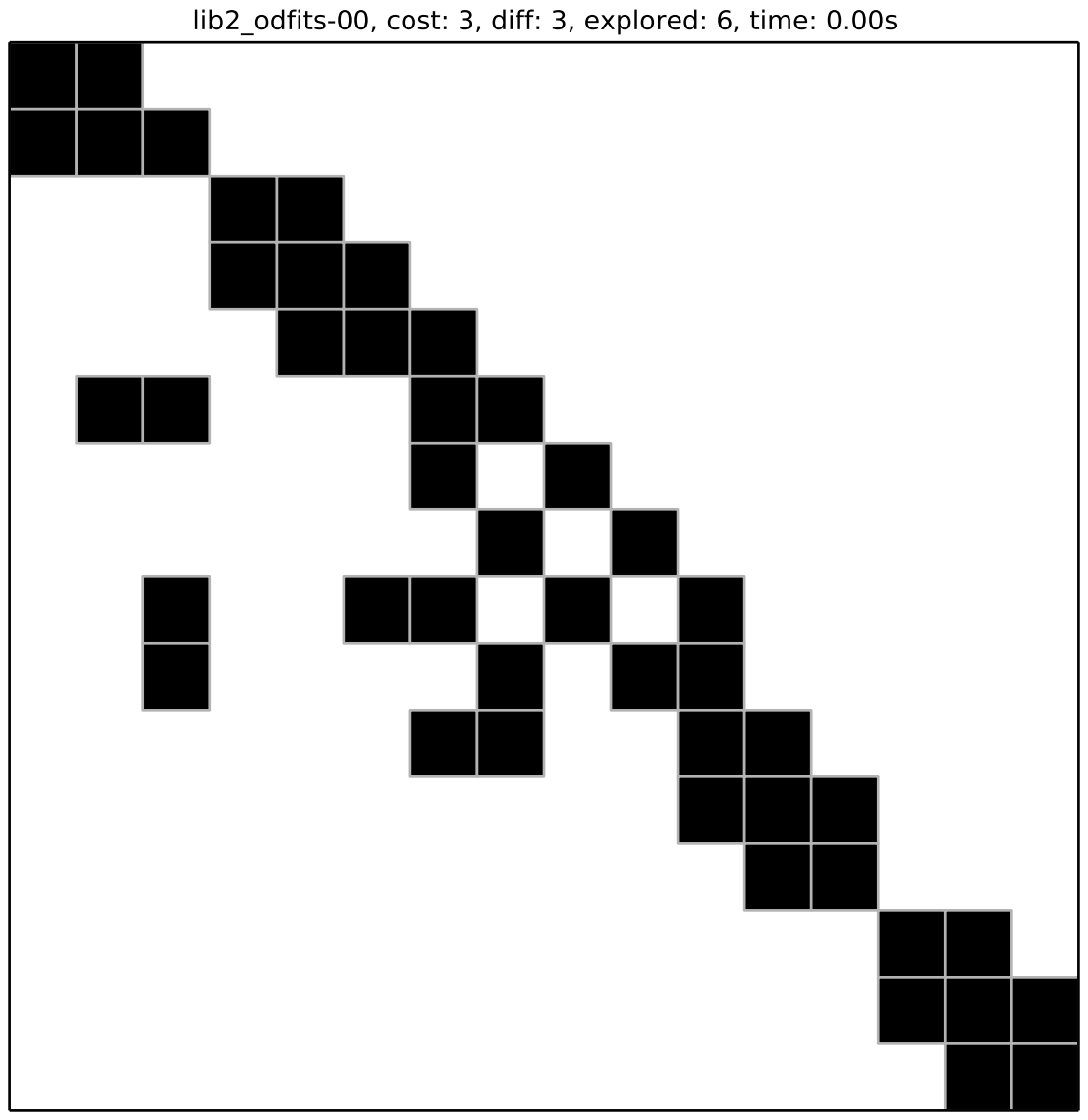
lib2_odfits-00 16x16 (46) con: 6, var: 10

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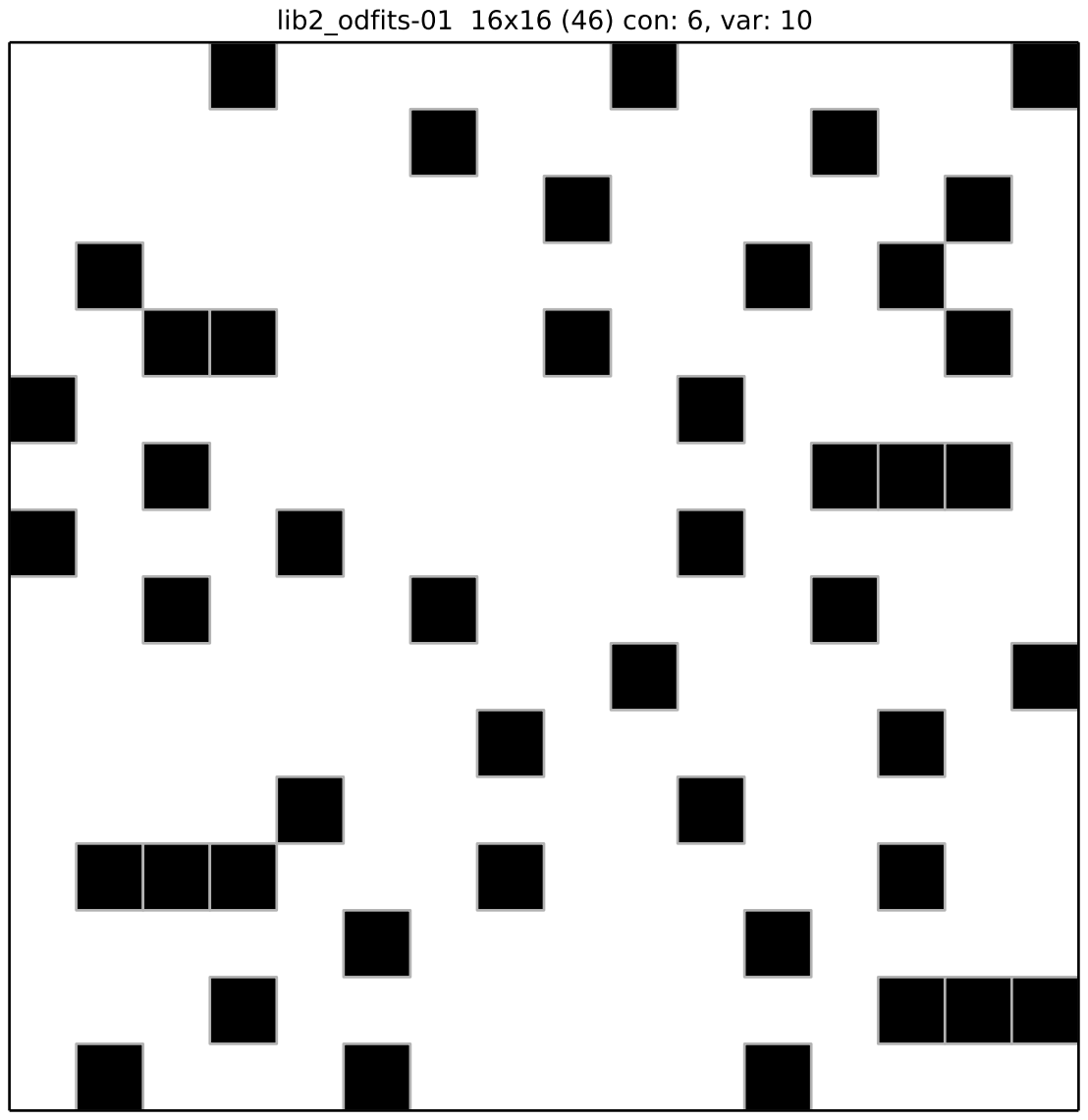
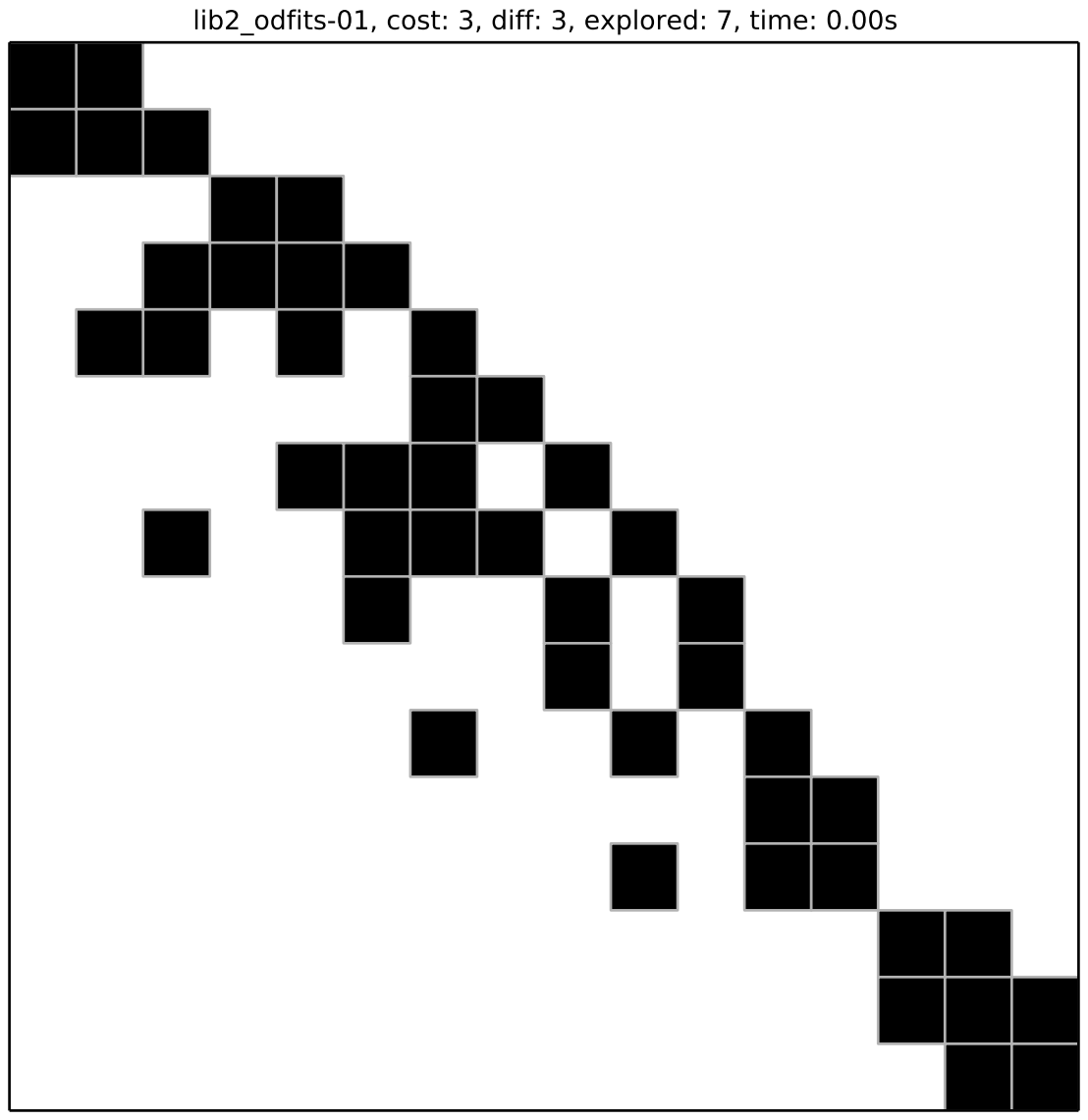

lib2_odfits-01 16x16 (46) con: 6, var: 10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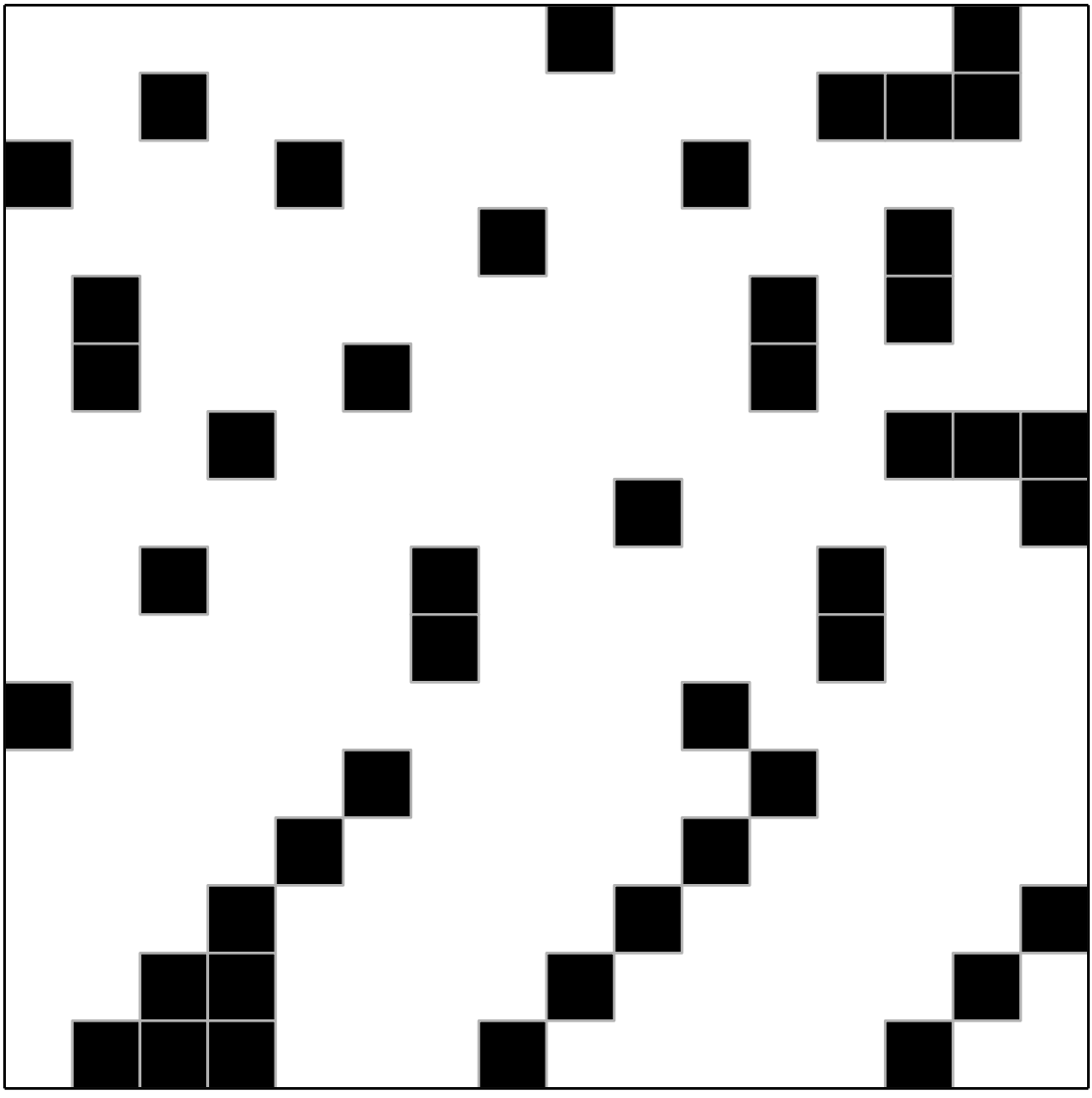
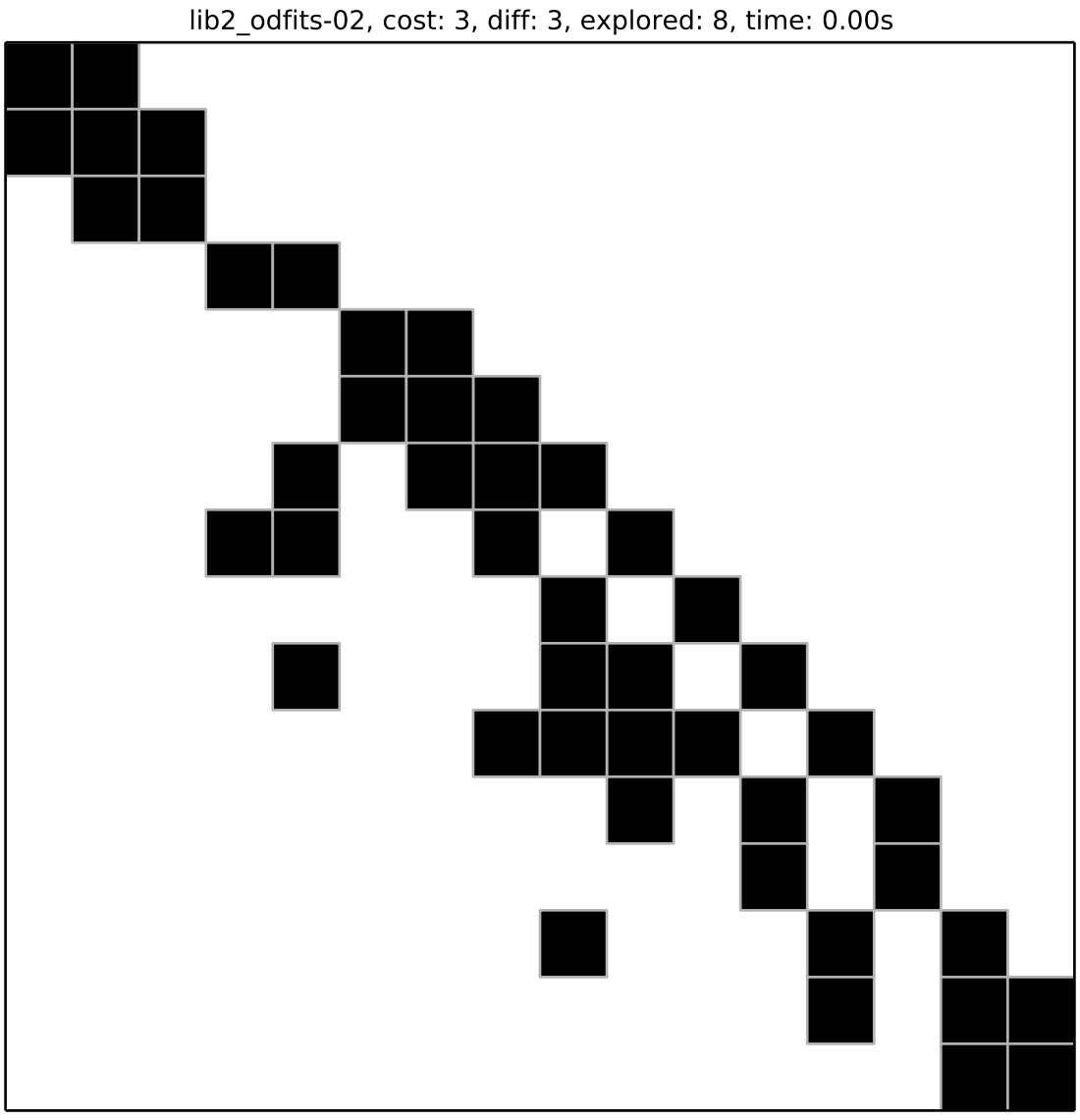
lib2_odfits-02 16x16 (46) con: 6, var: 10

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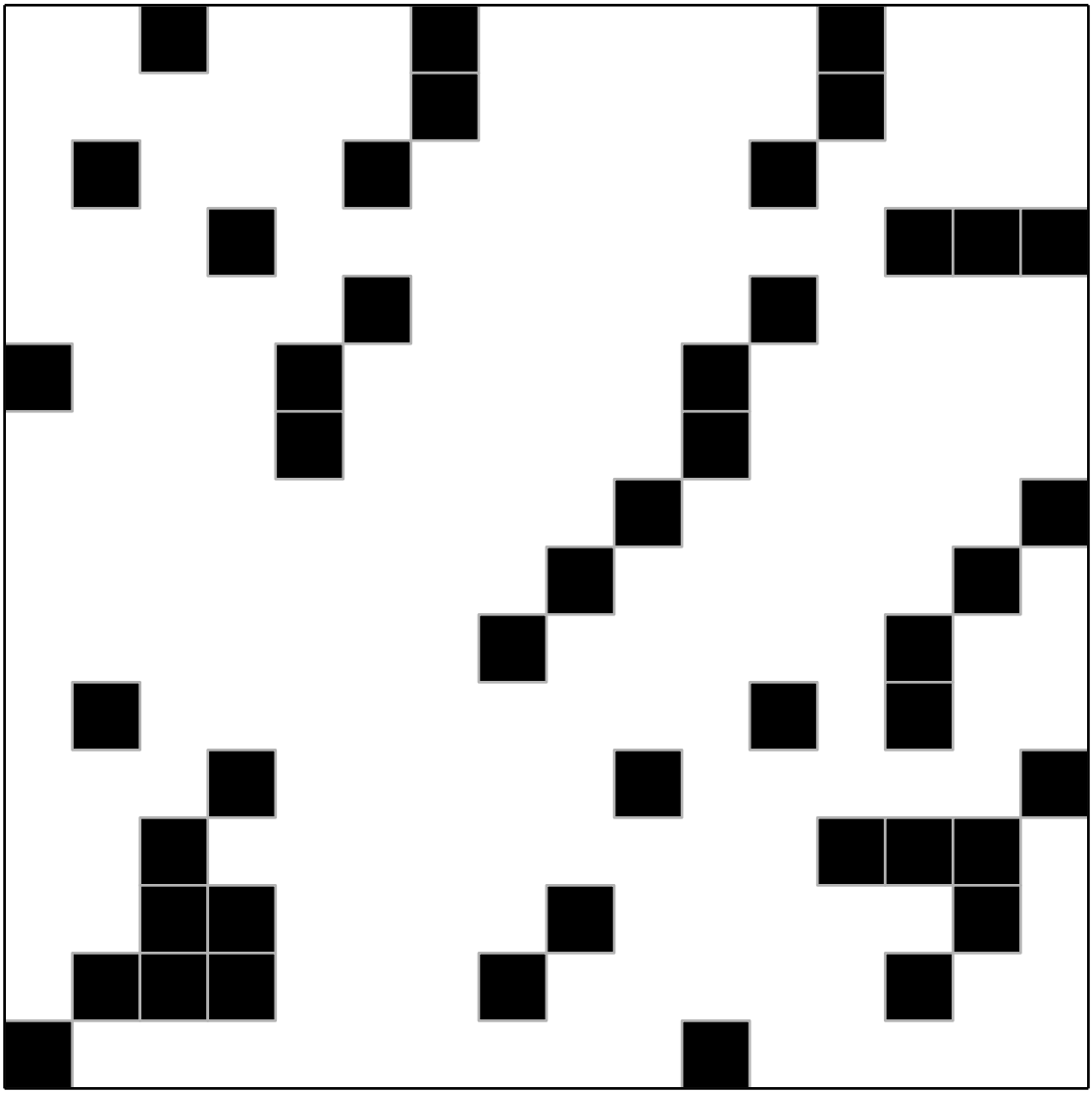
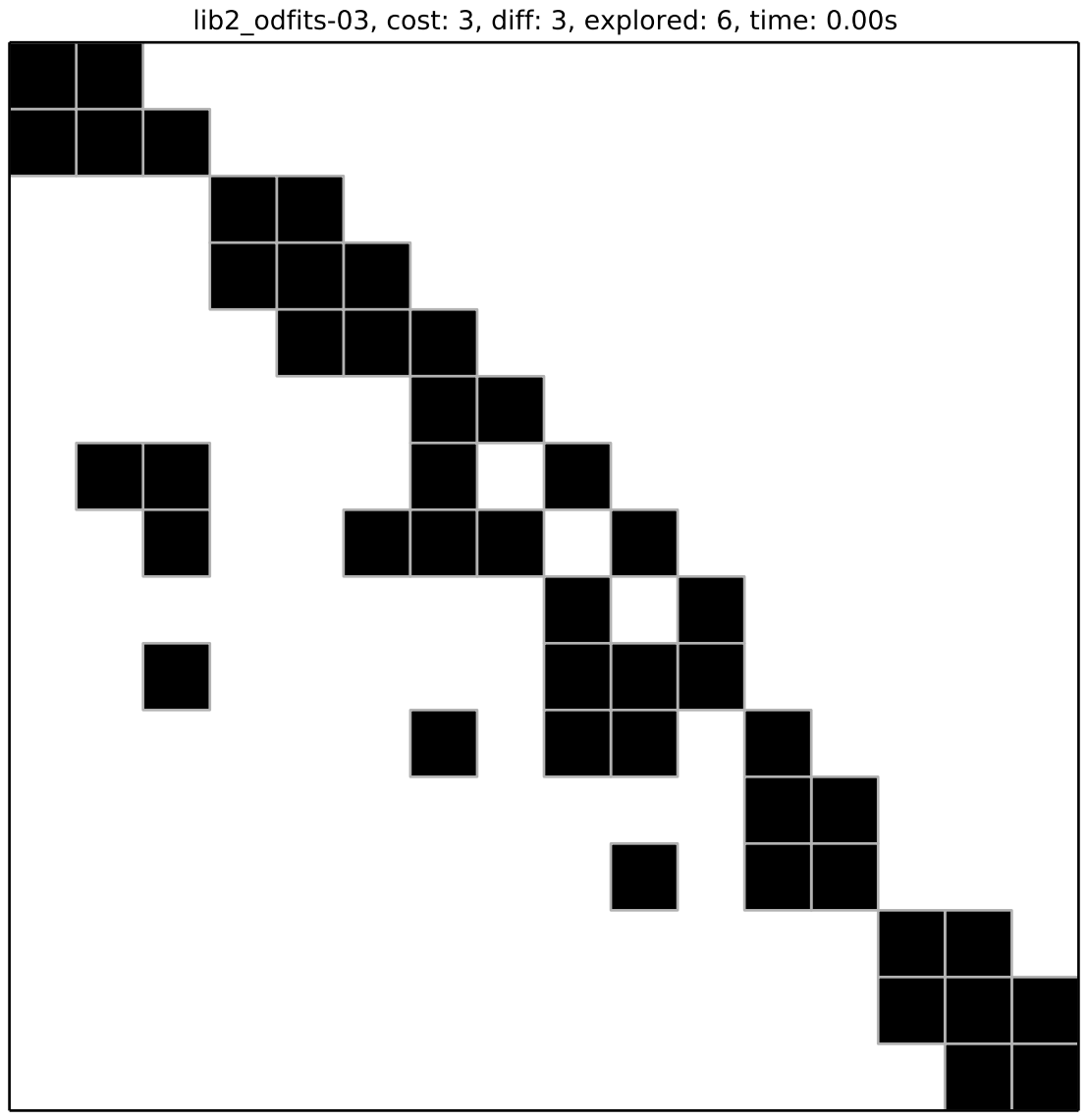
lib2_odfits-03 16x16 (46) con: 6, var: 10

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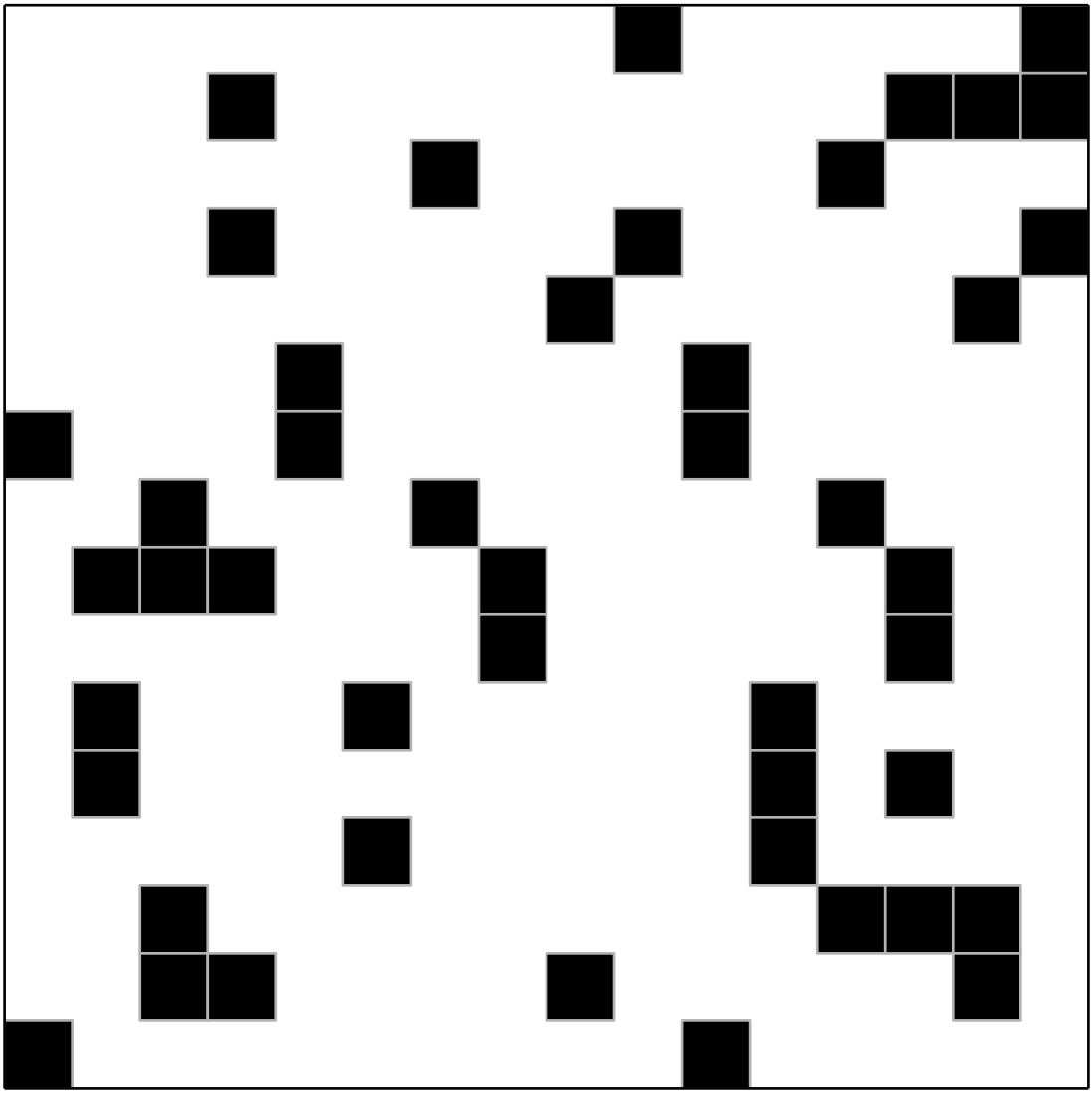
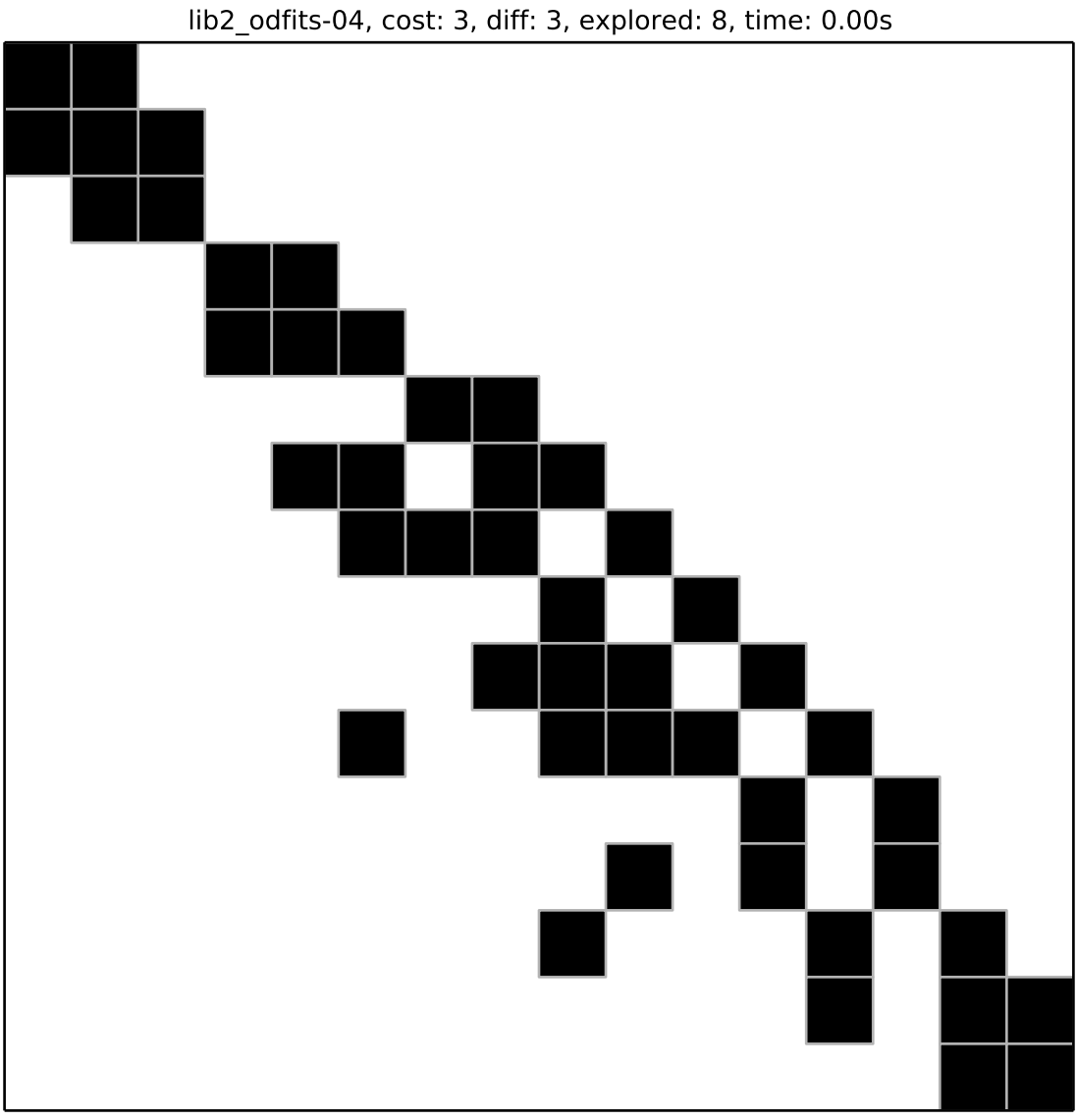
lib2_odfits-04 16x16 (46) con: 6, var: 10

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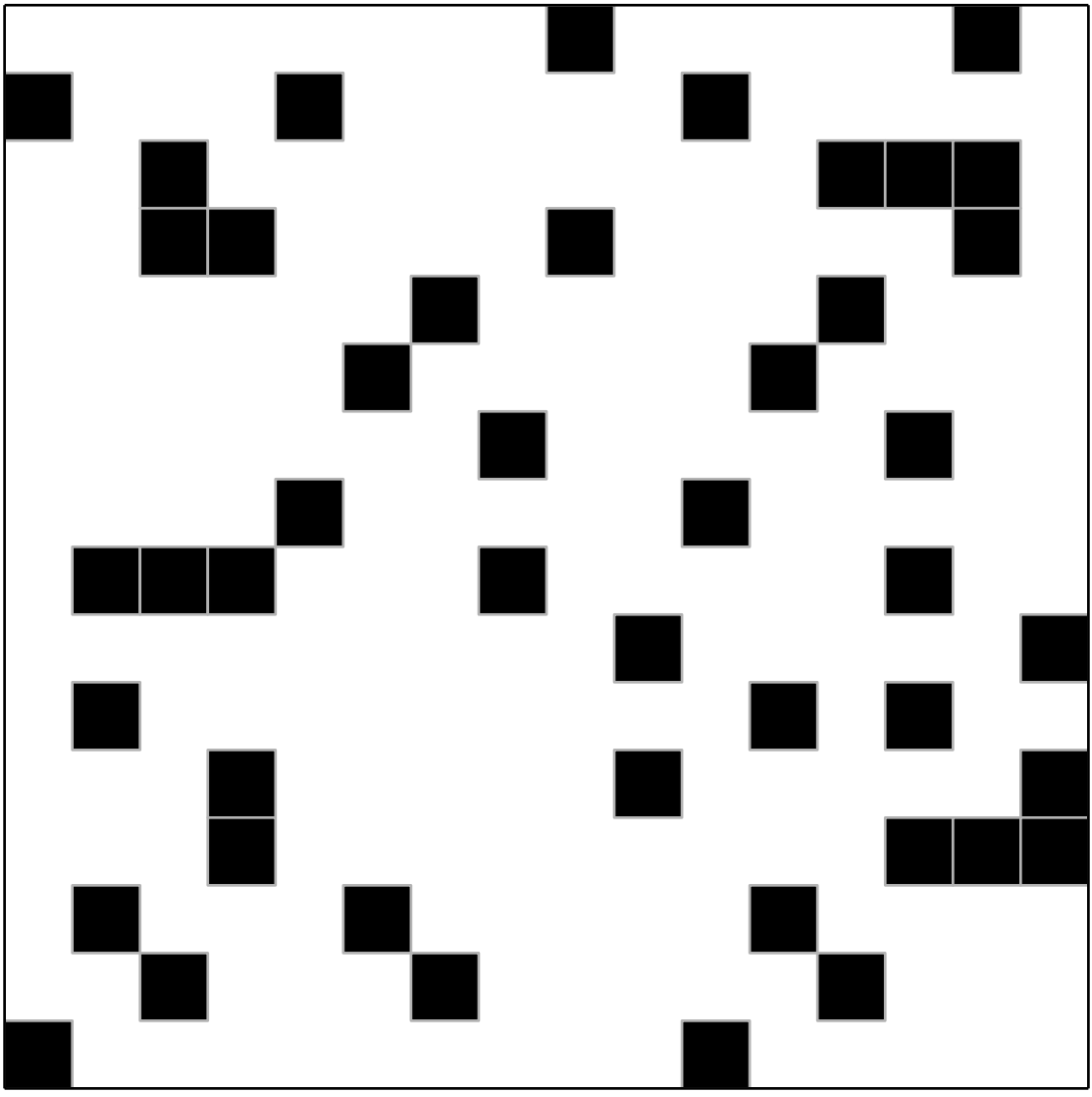

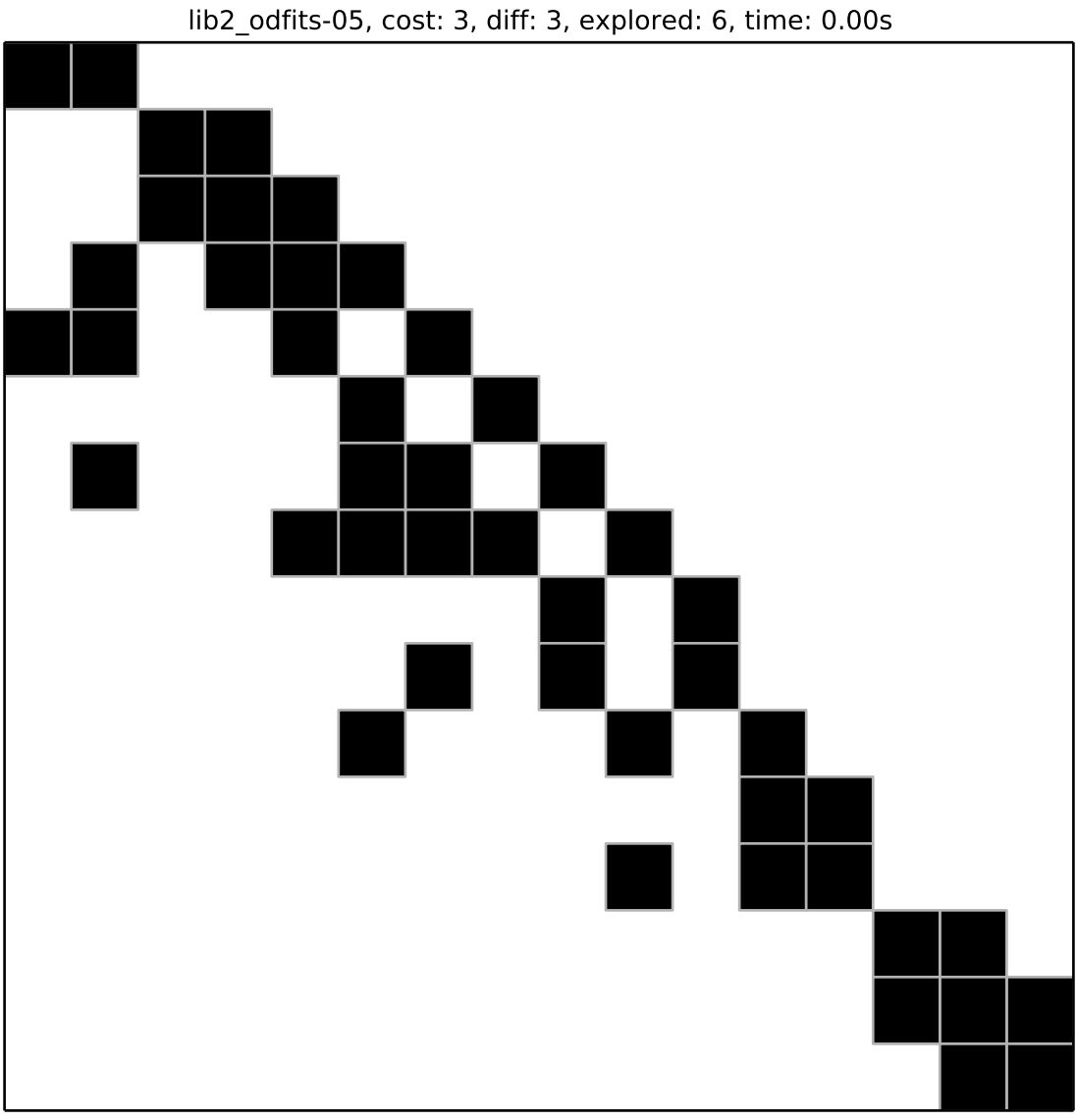
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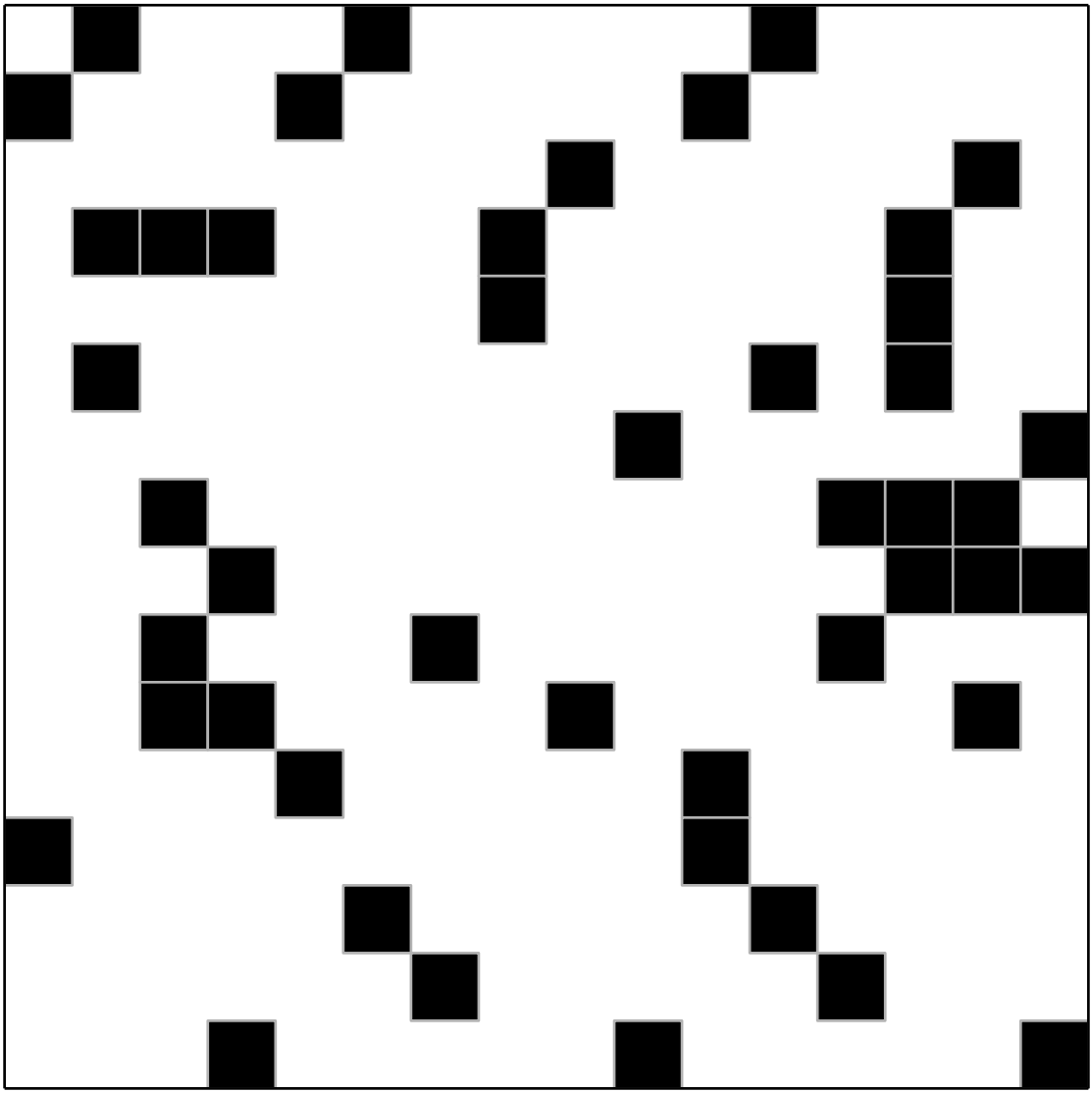
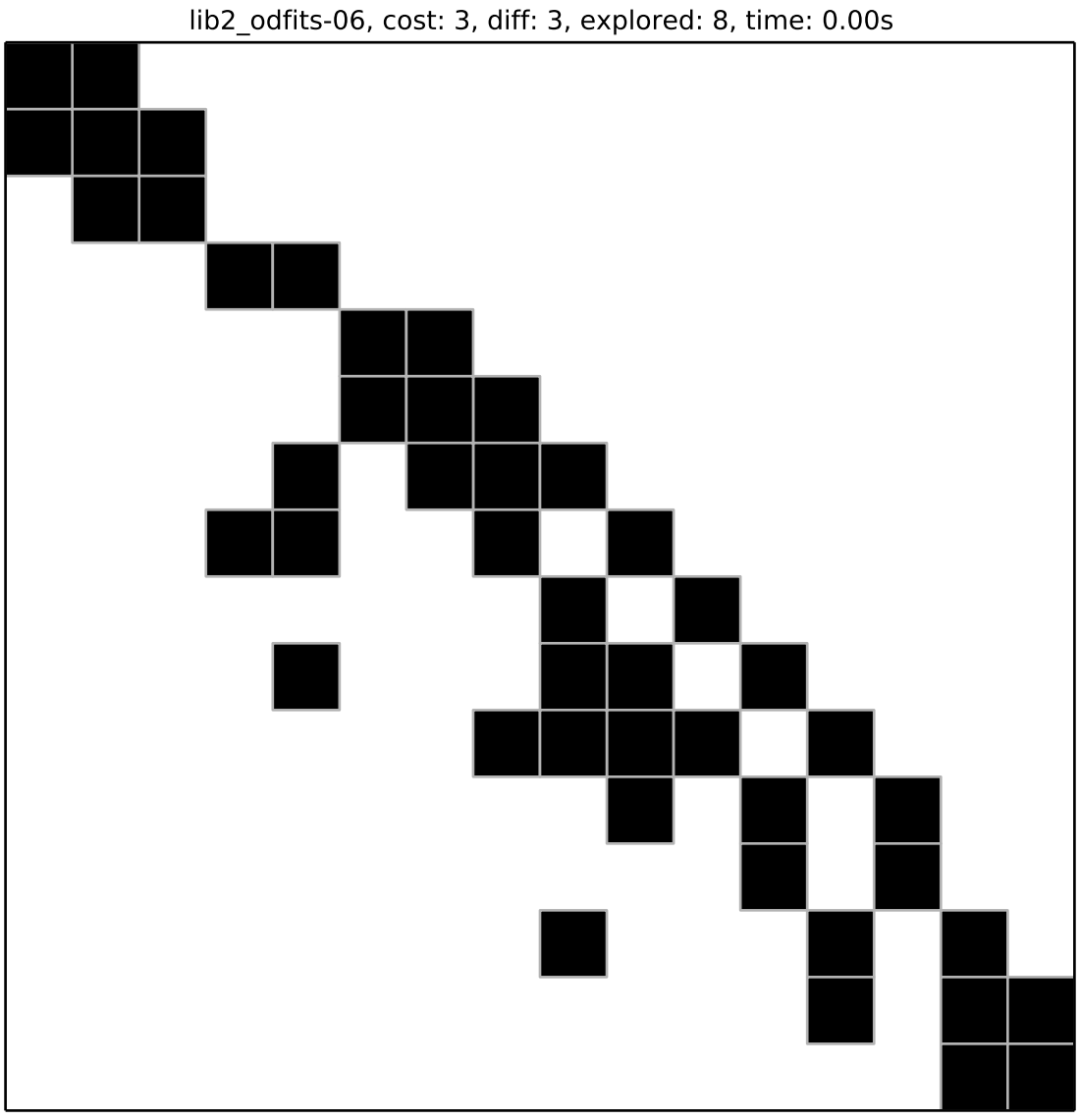
lib2_odfits-06 16x16 (46) con: 6, var: 10

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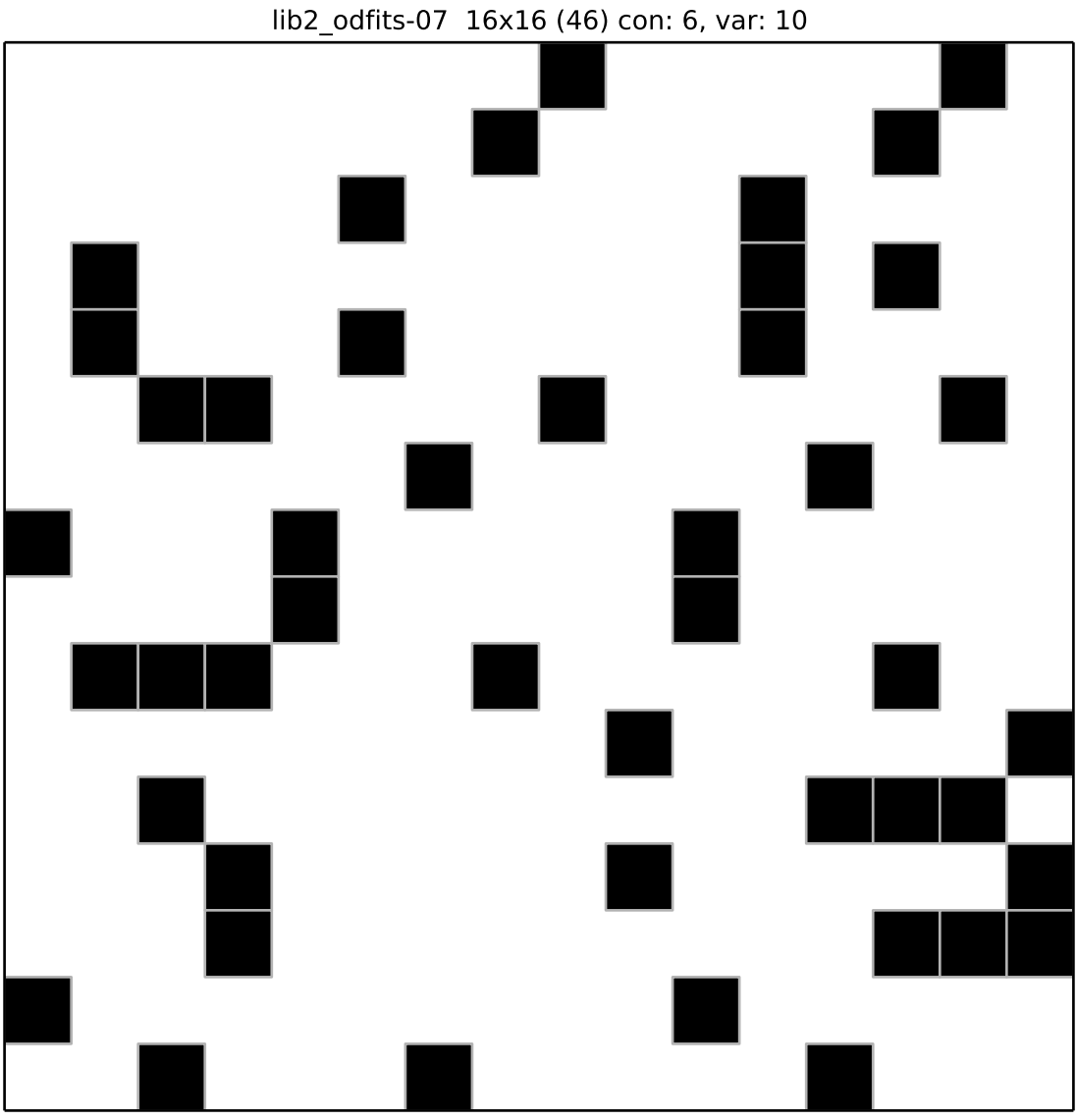
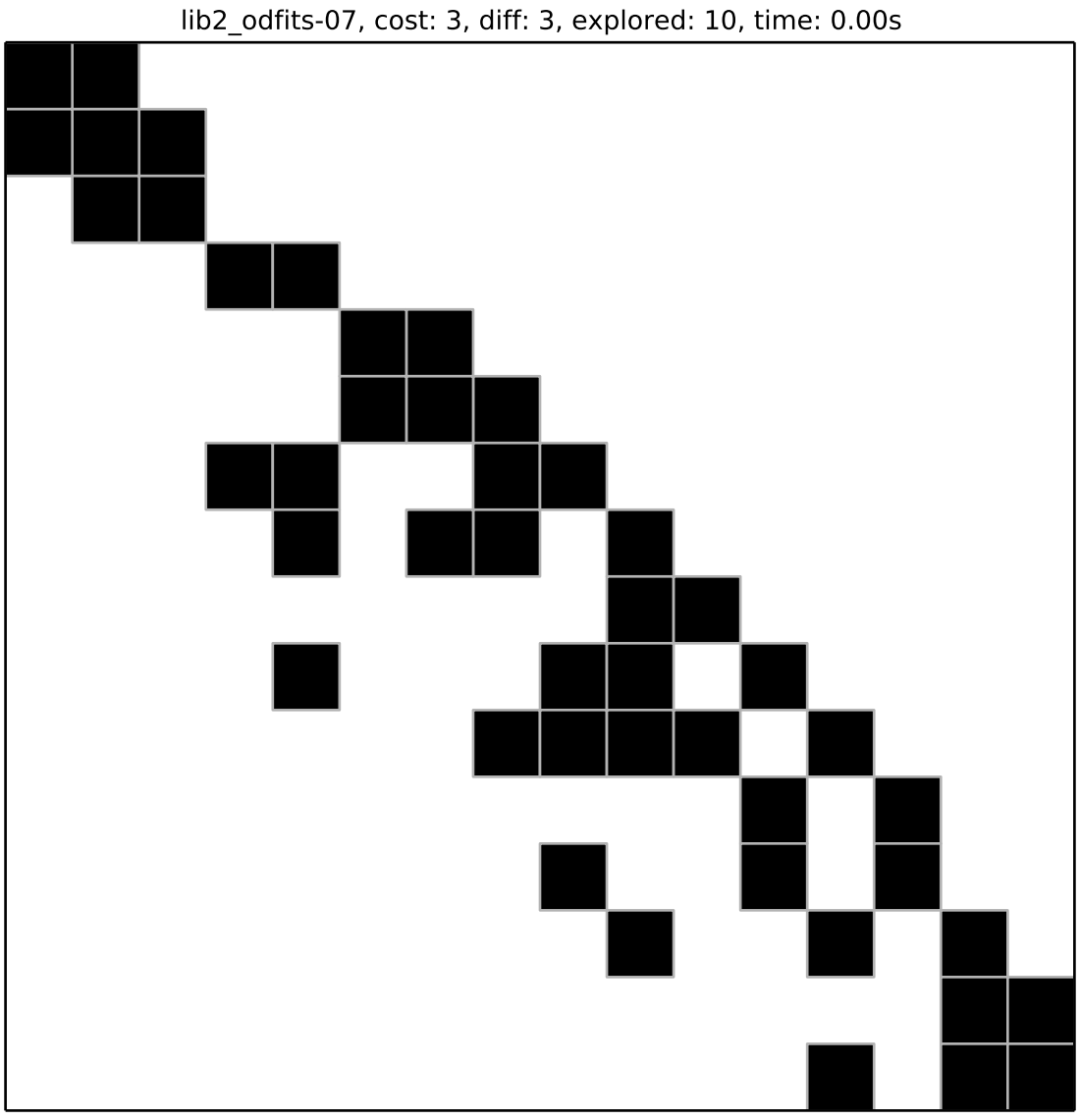

lib2_odfits-07 16x16 (46) con: 6, var: 10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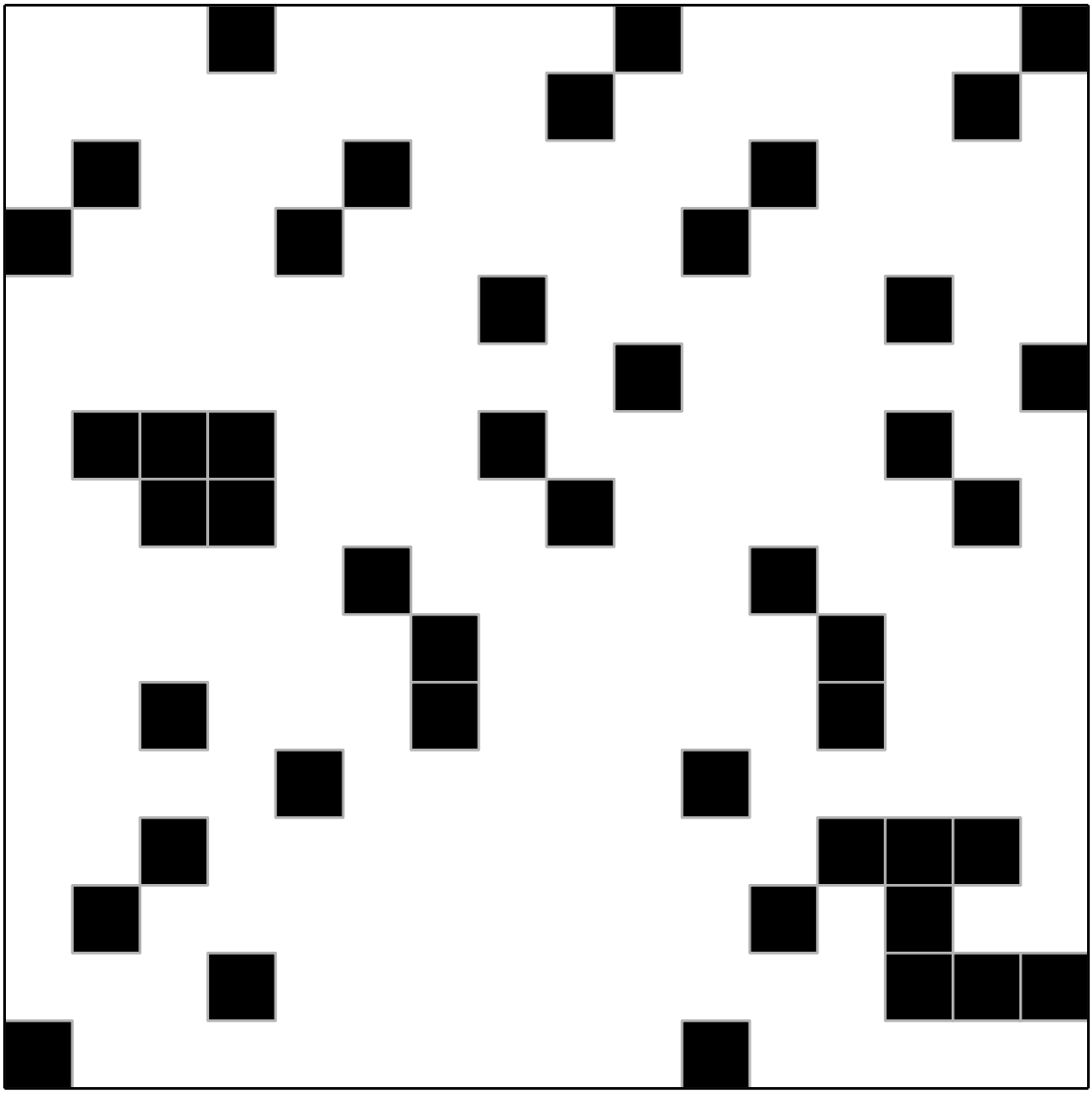
lib2_odfits-08 16x16 (46) con: 6, var: 10



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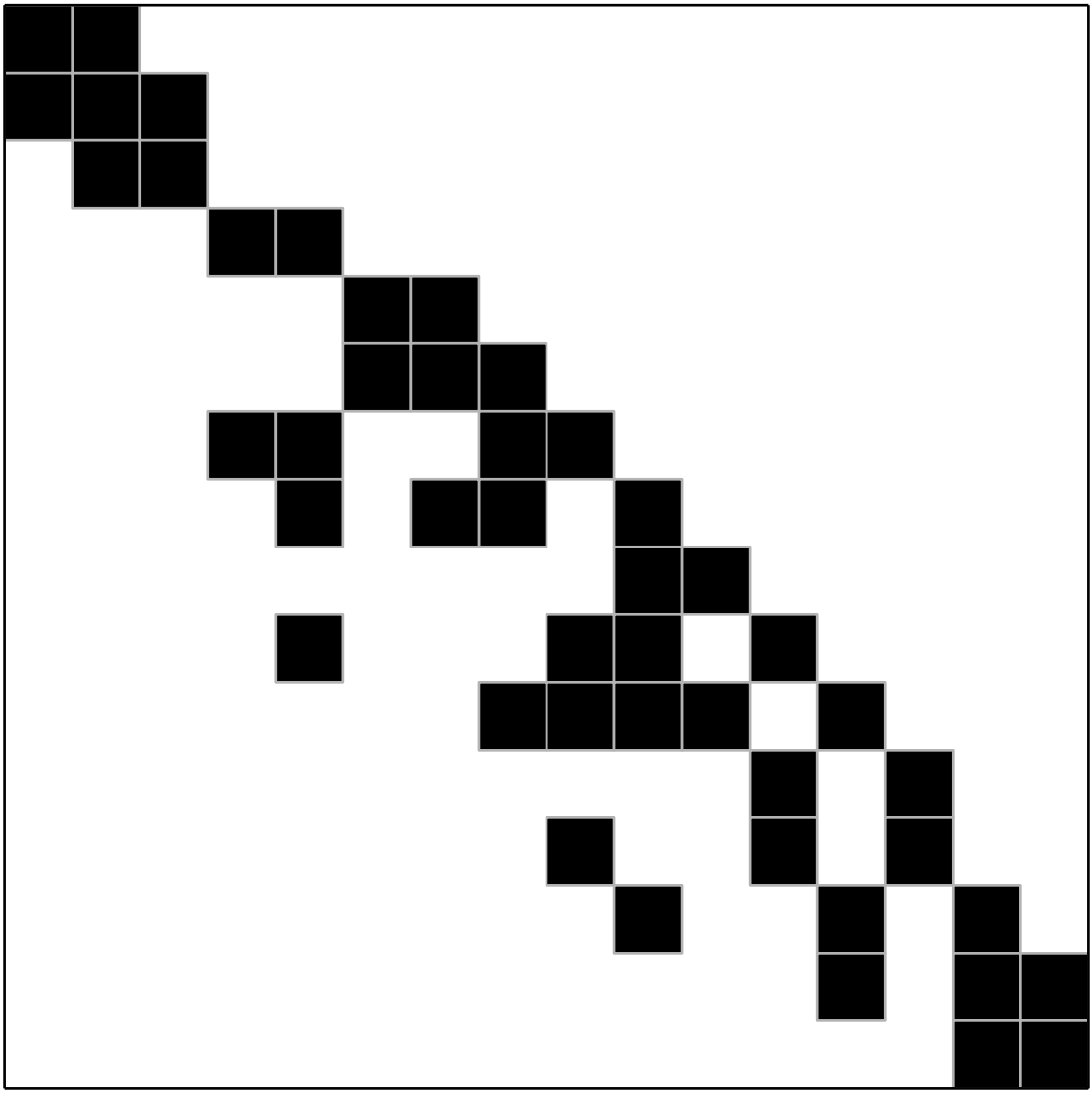

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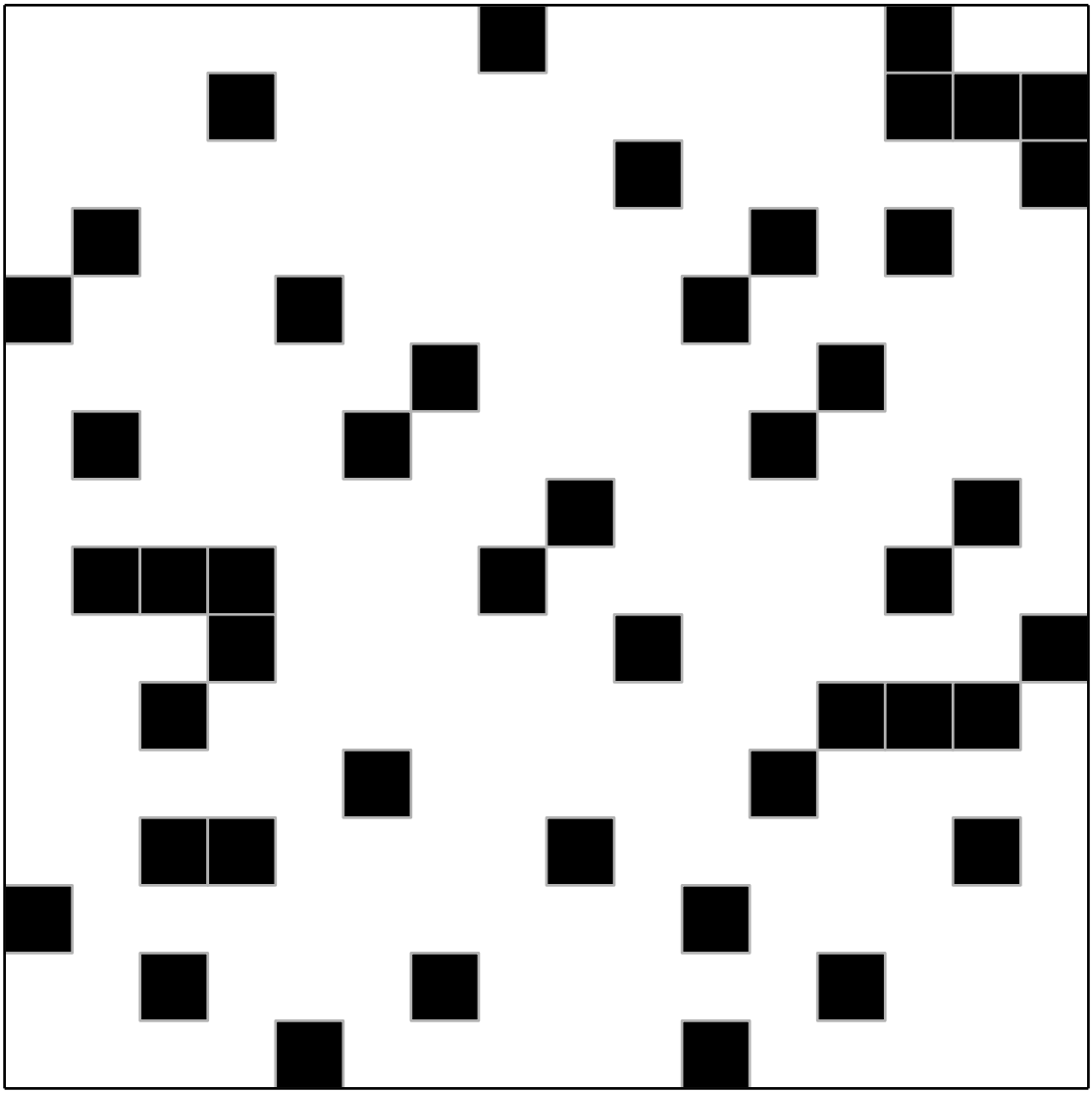

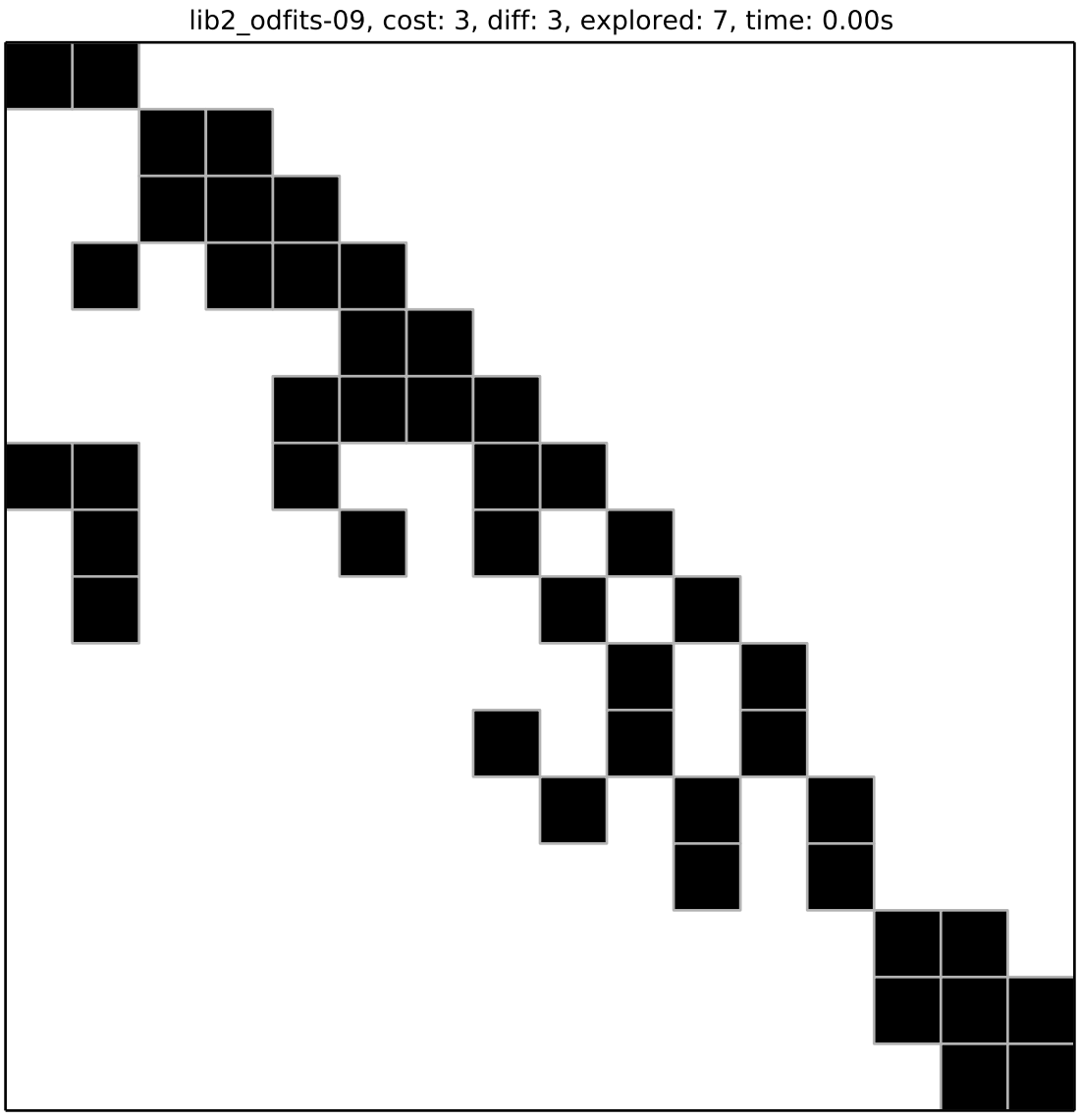
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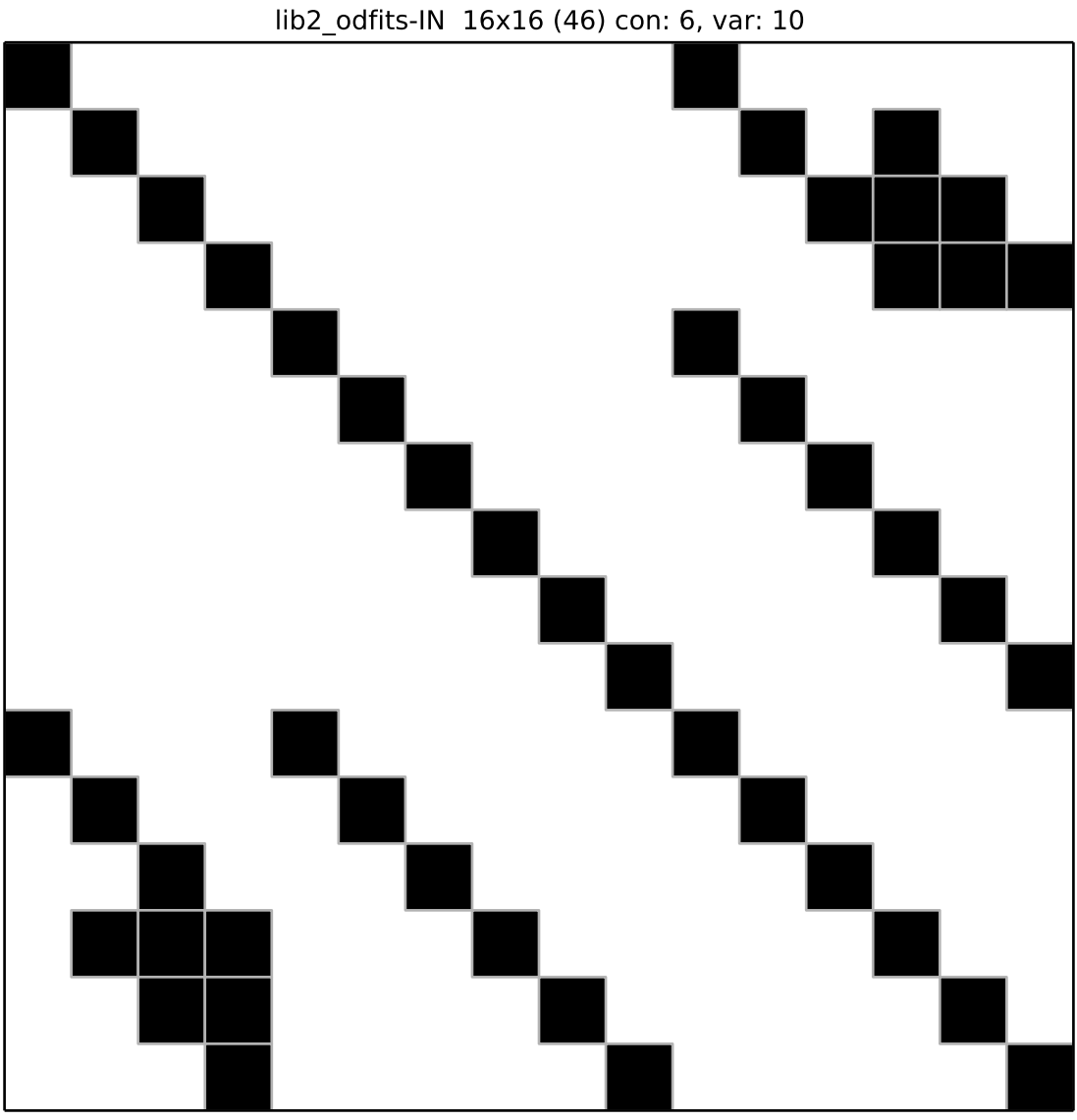
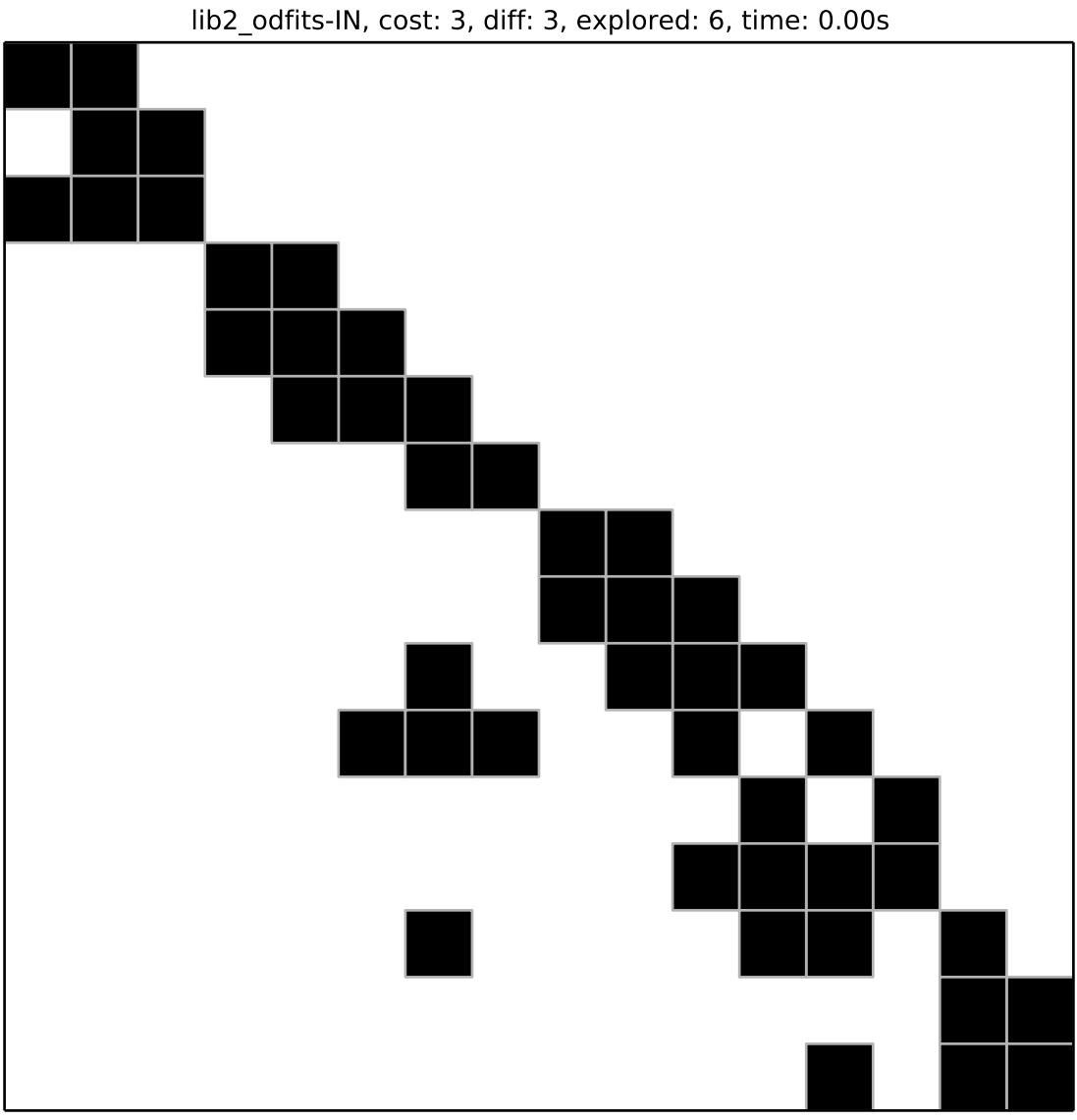

lib2_odfits-IN 16x16 (46) con: 6, var: 10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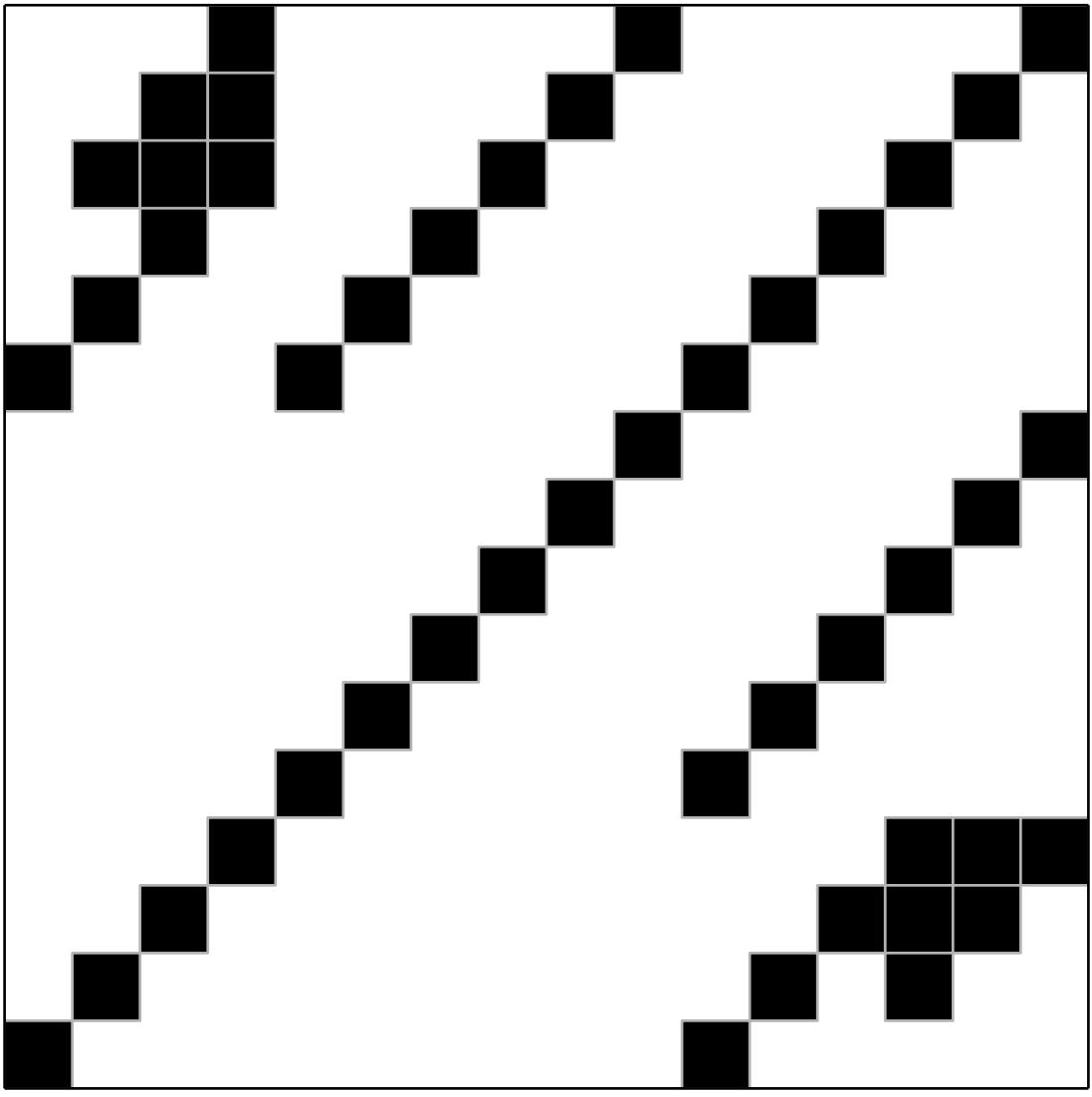
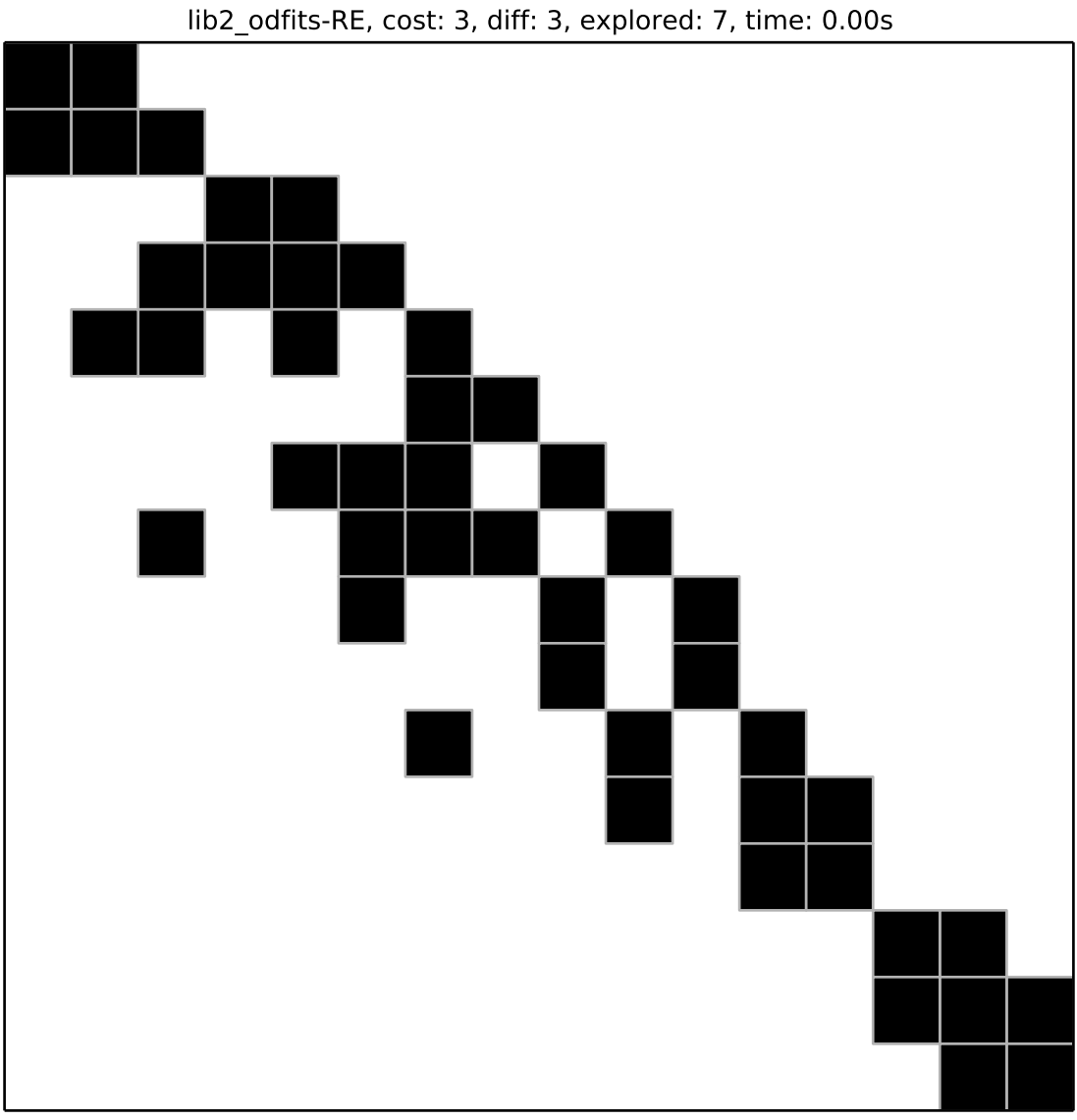
lib2_odfits-RE 16x16 (46) con: 6, var: 10

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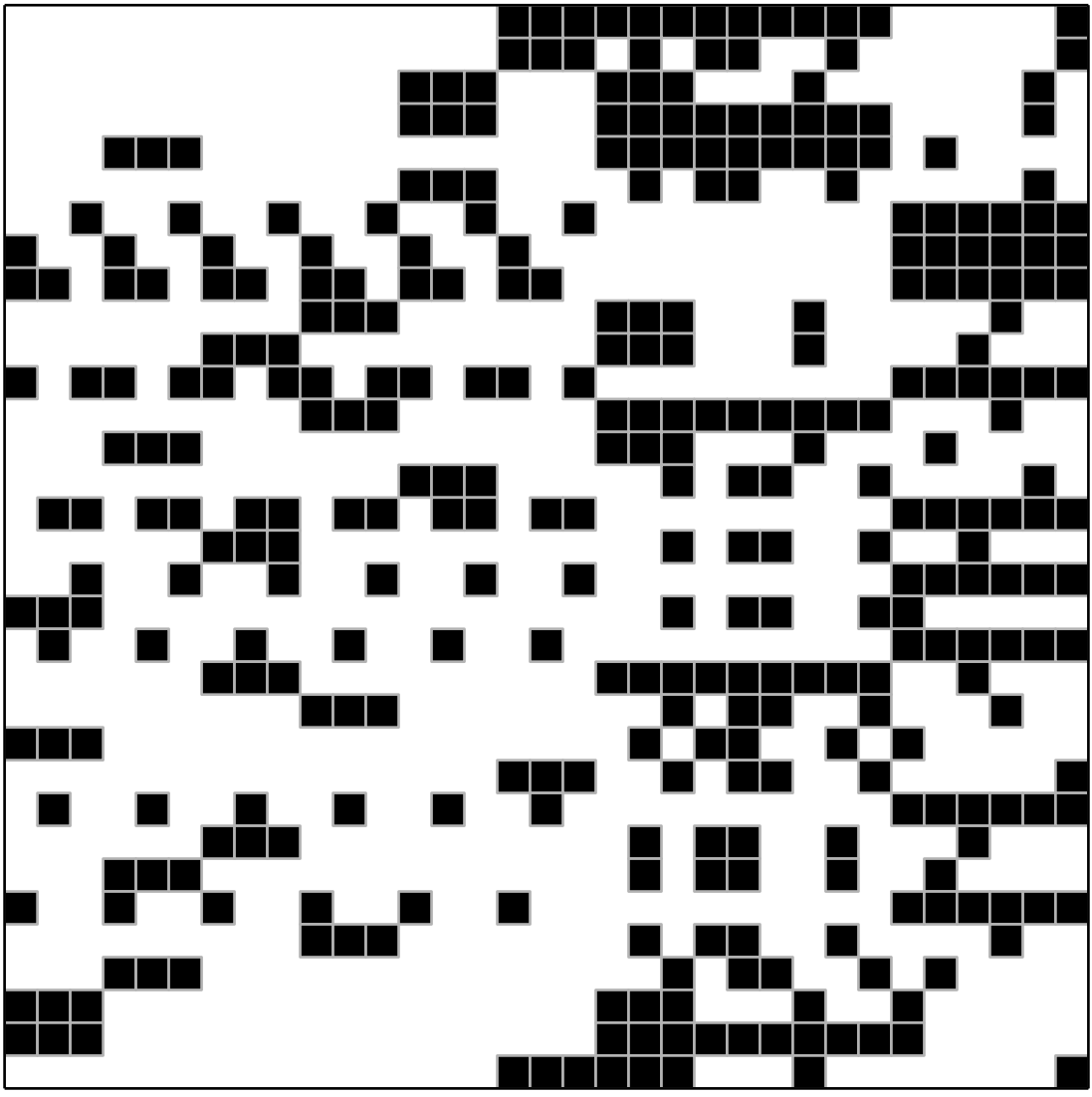
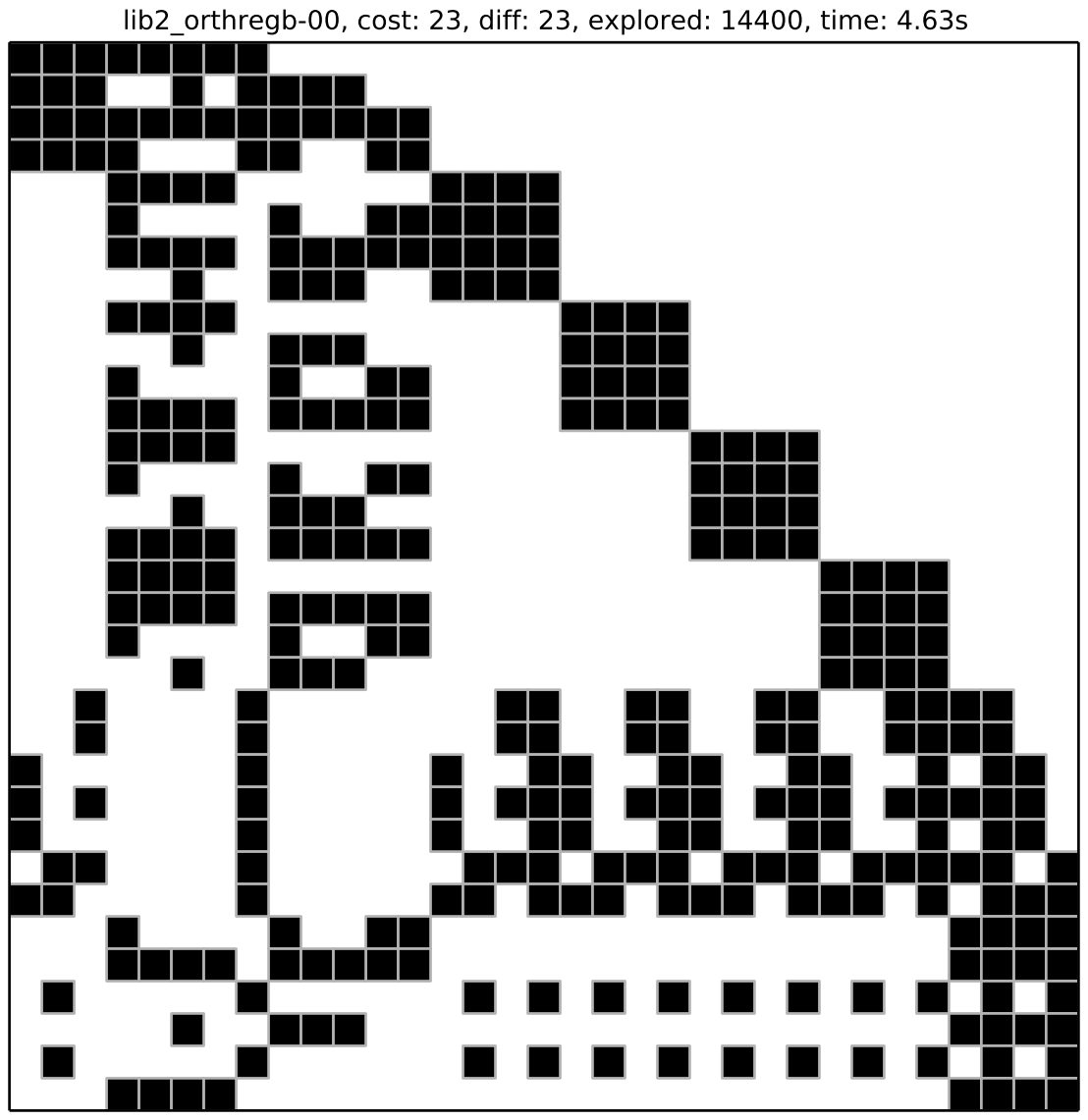
lib2_orthregb-00 33x33 (348) con: 6, var: 27

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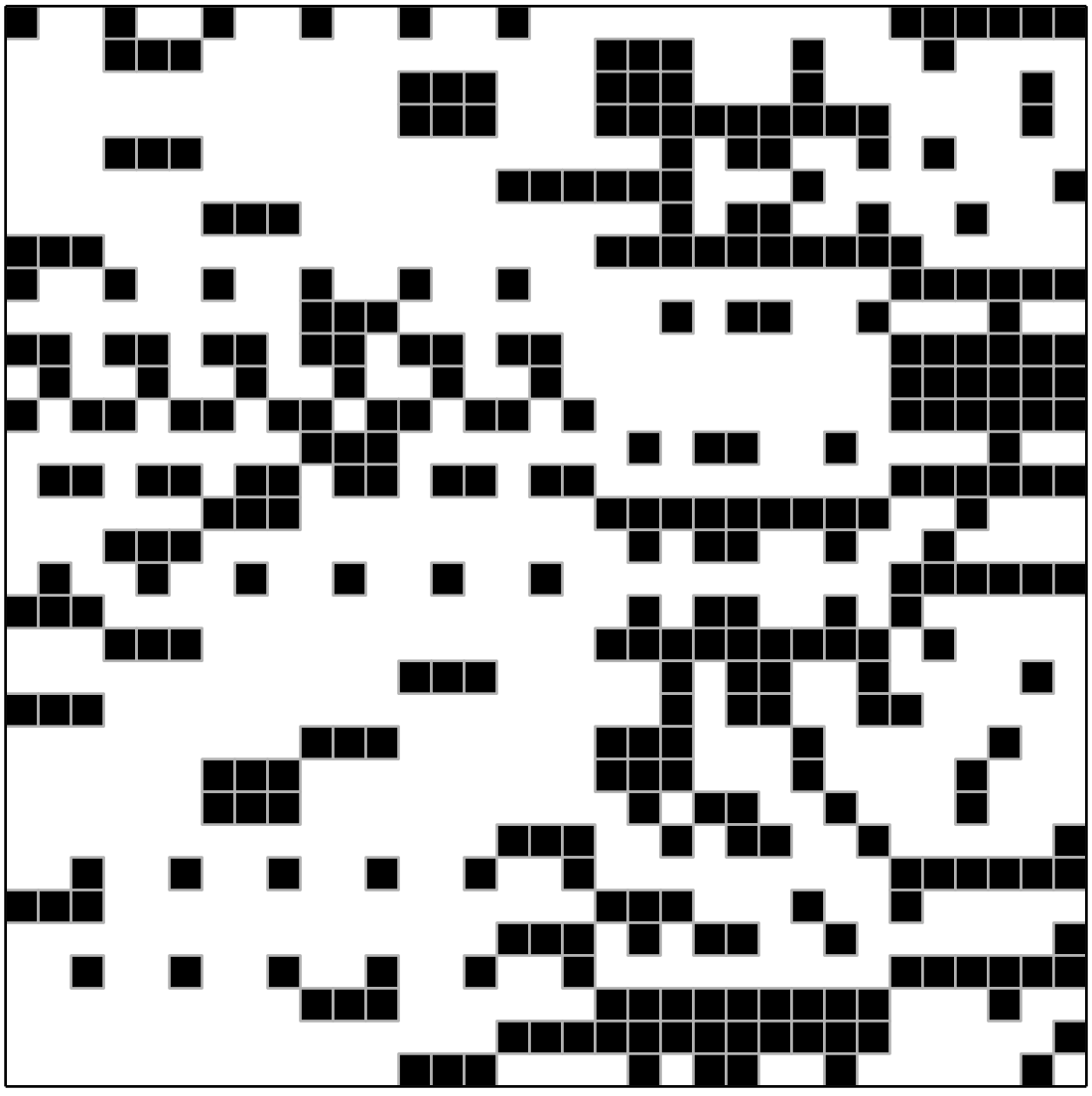
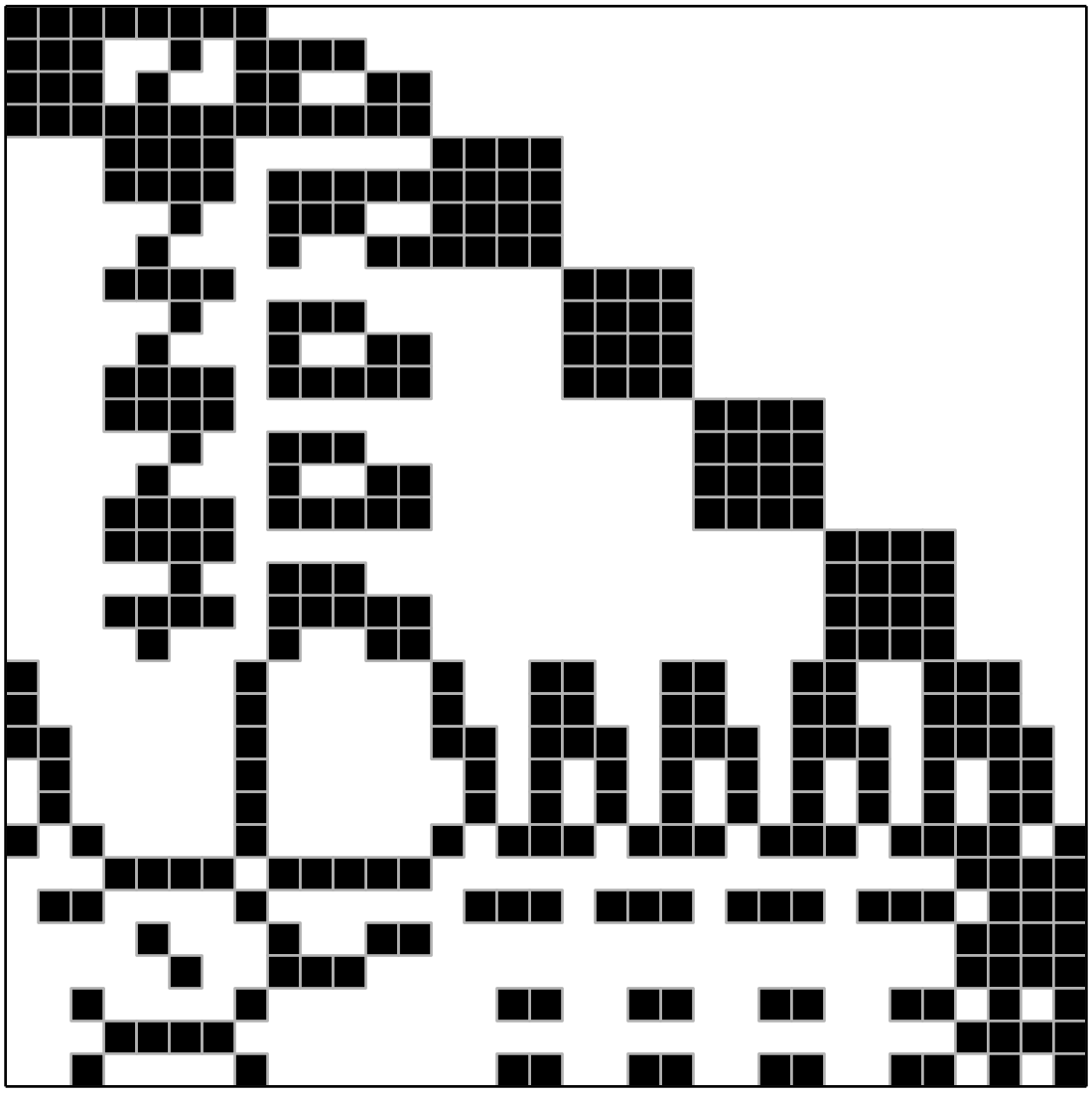

lib2_orthregb-01 33x33 (348) con: 6, var: 27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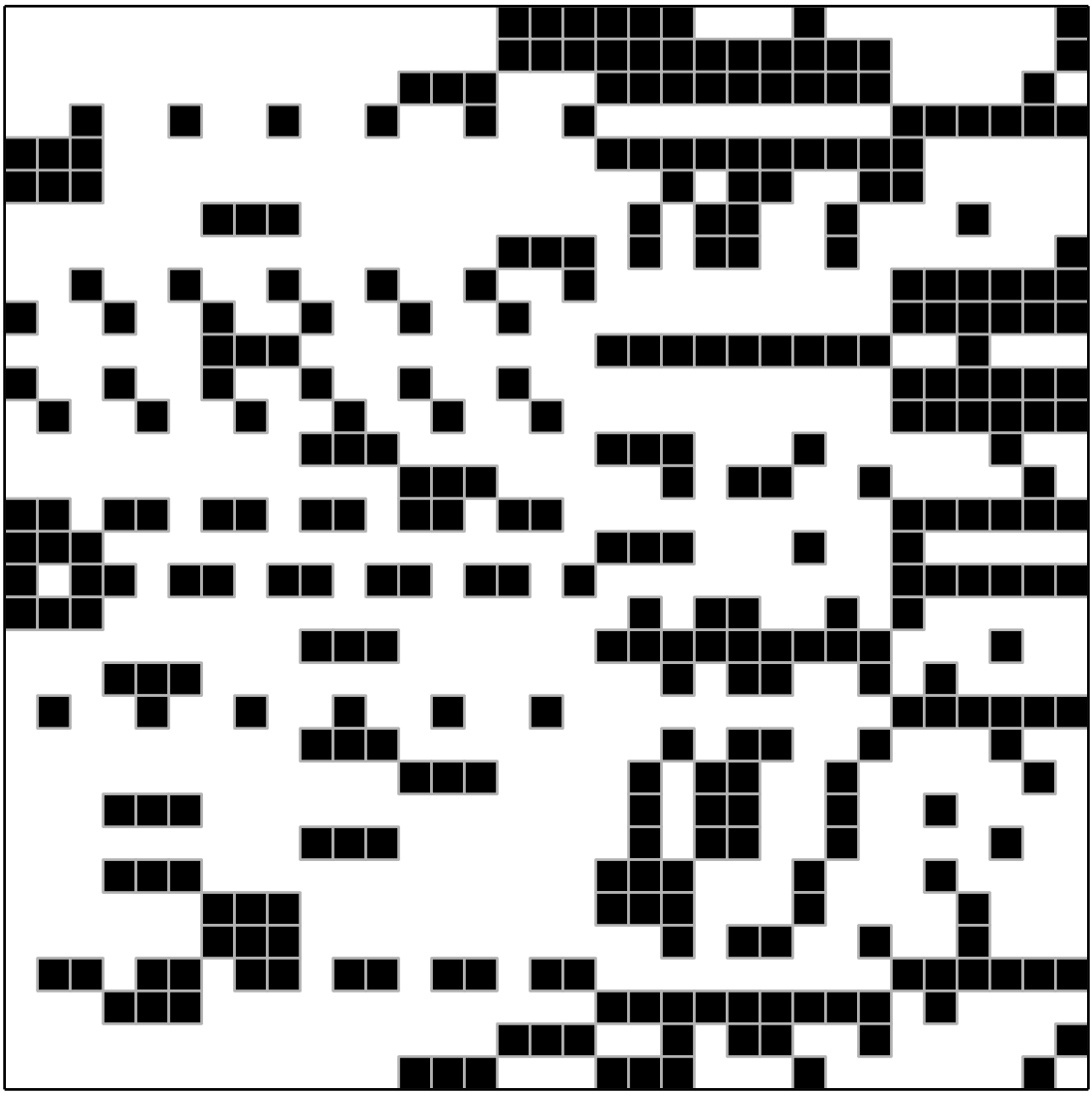
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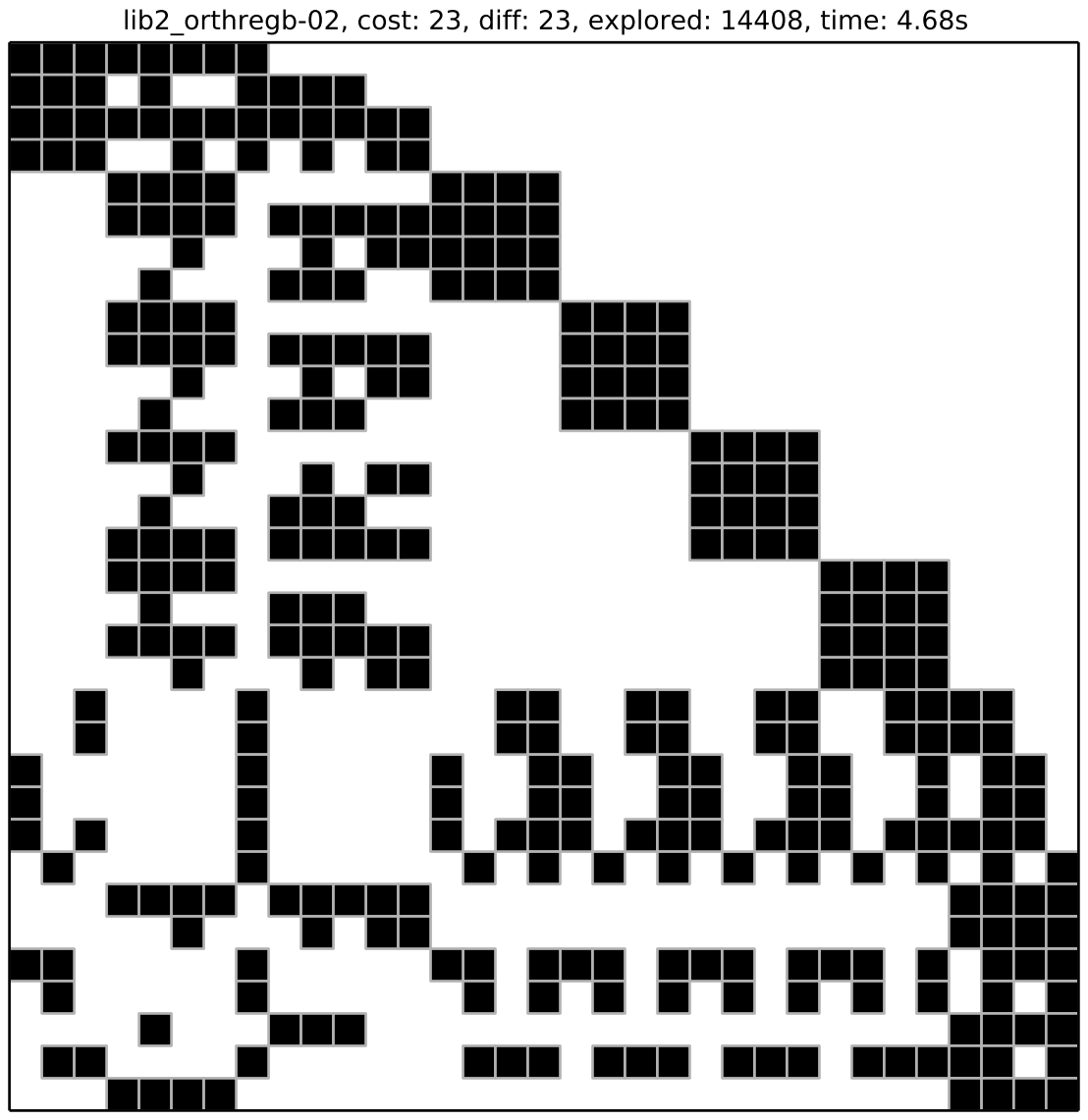
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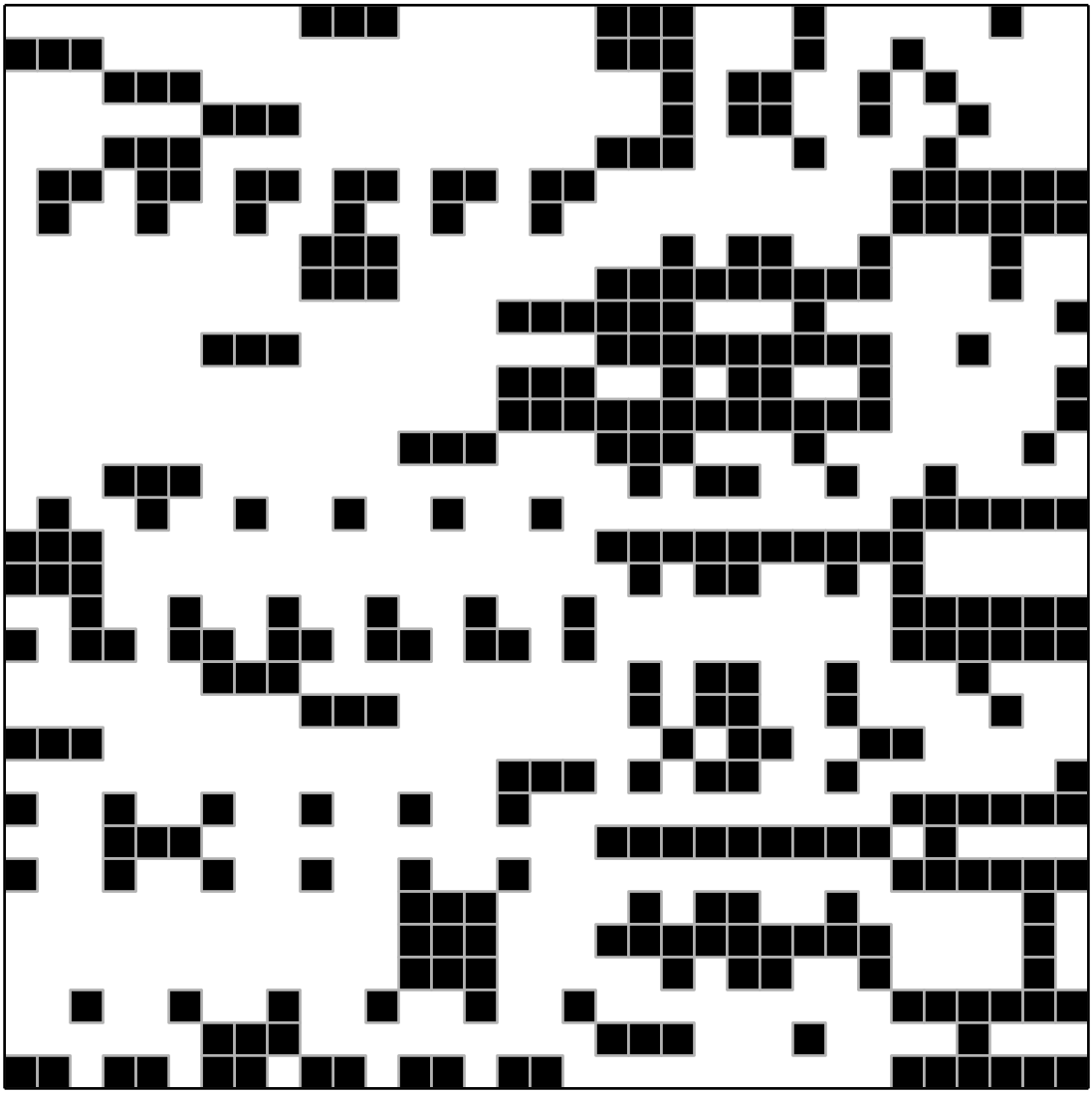
lib2_orthregb-03 33x33 (348) con: 6, var: 27



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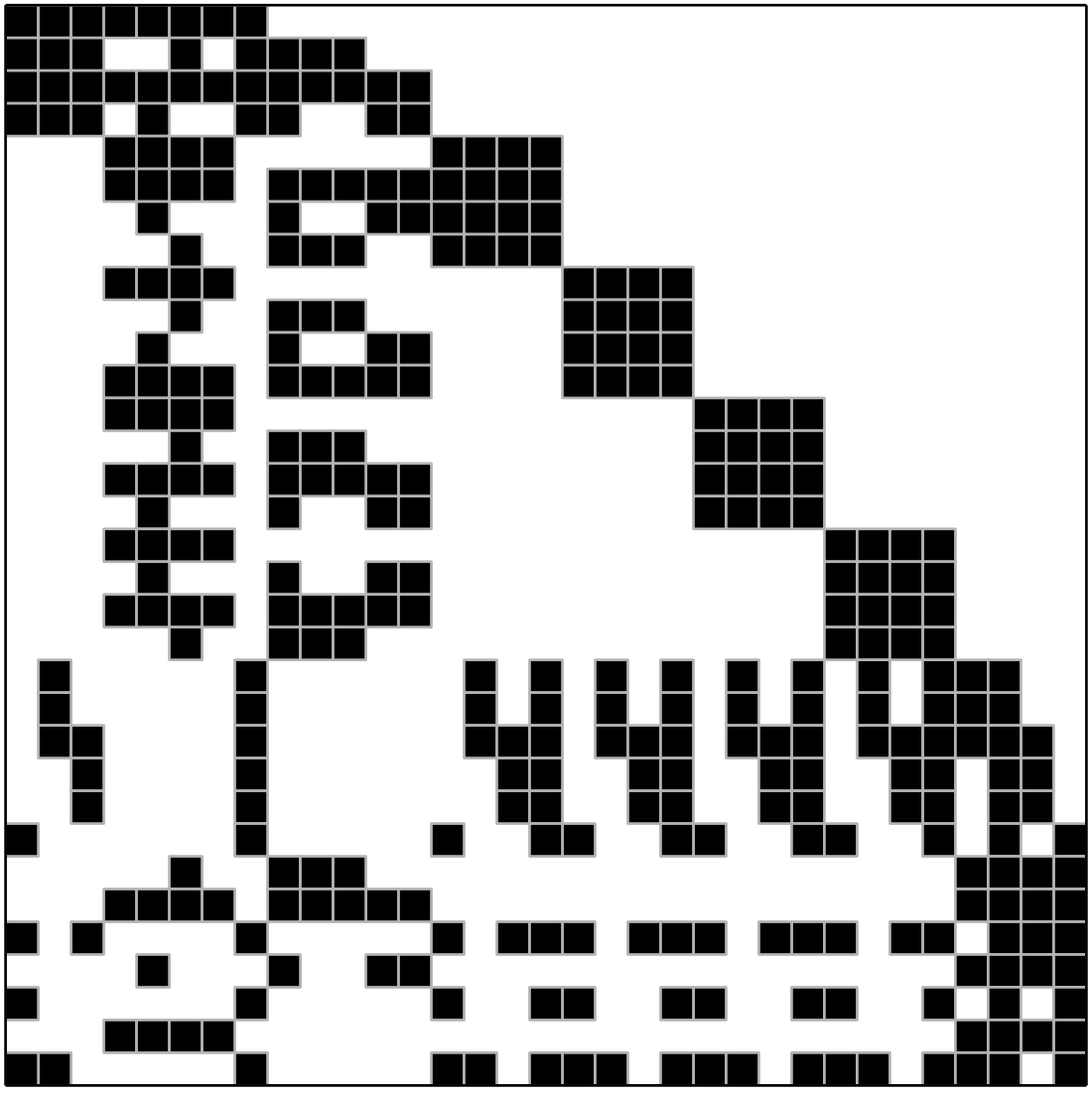
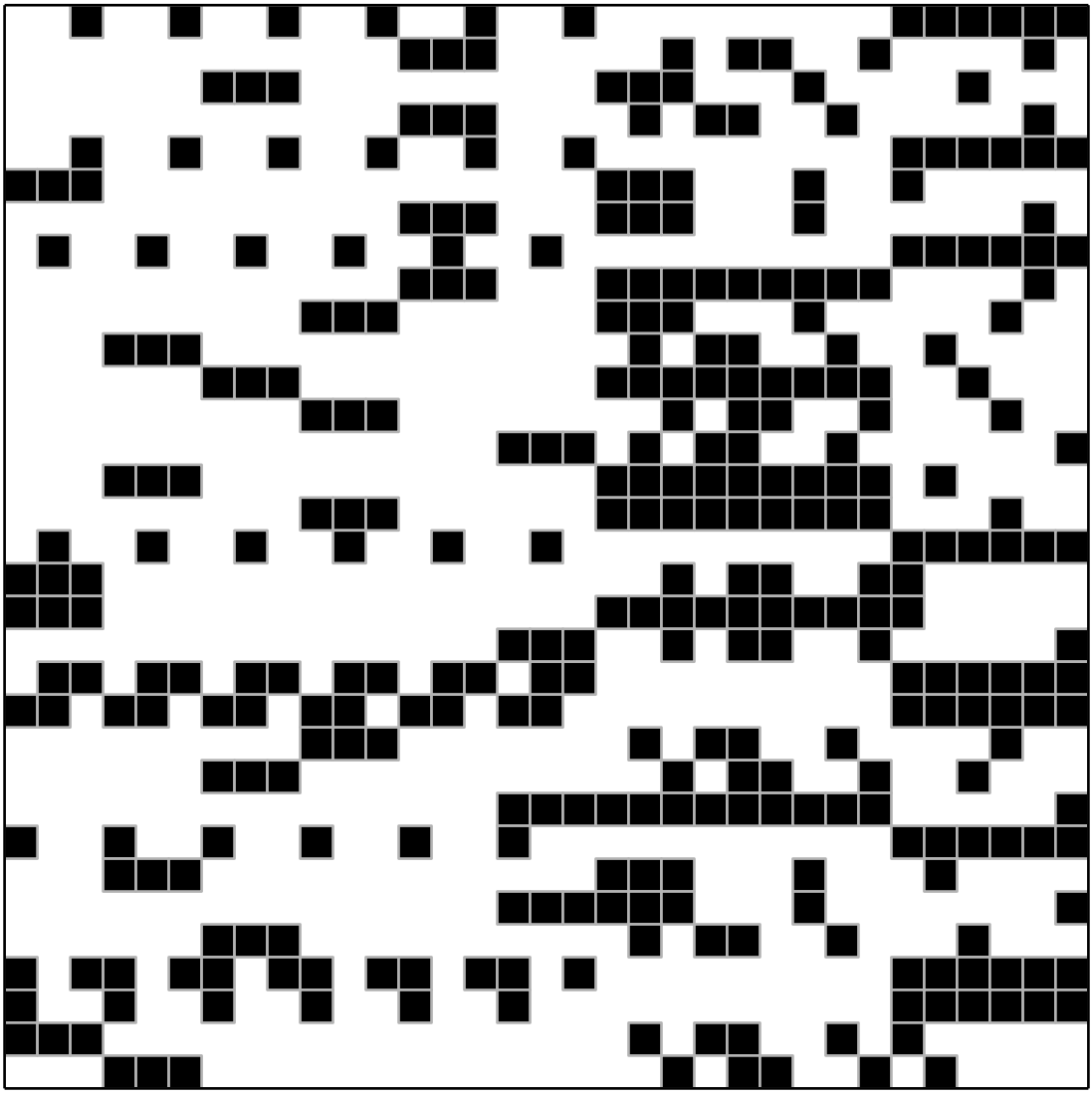
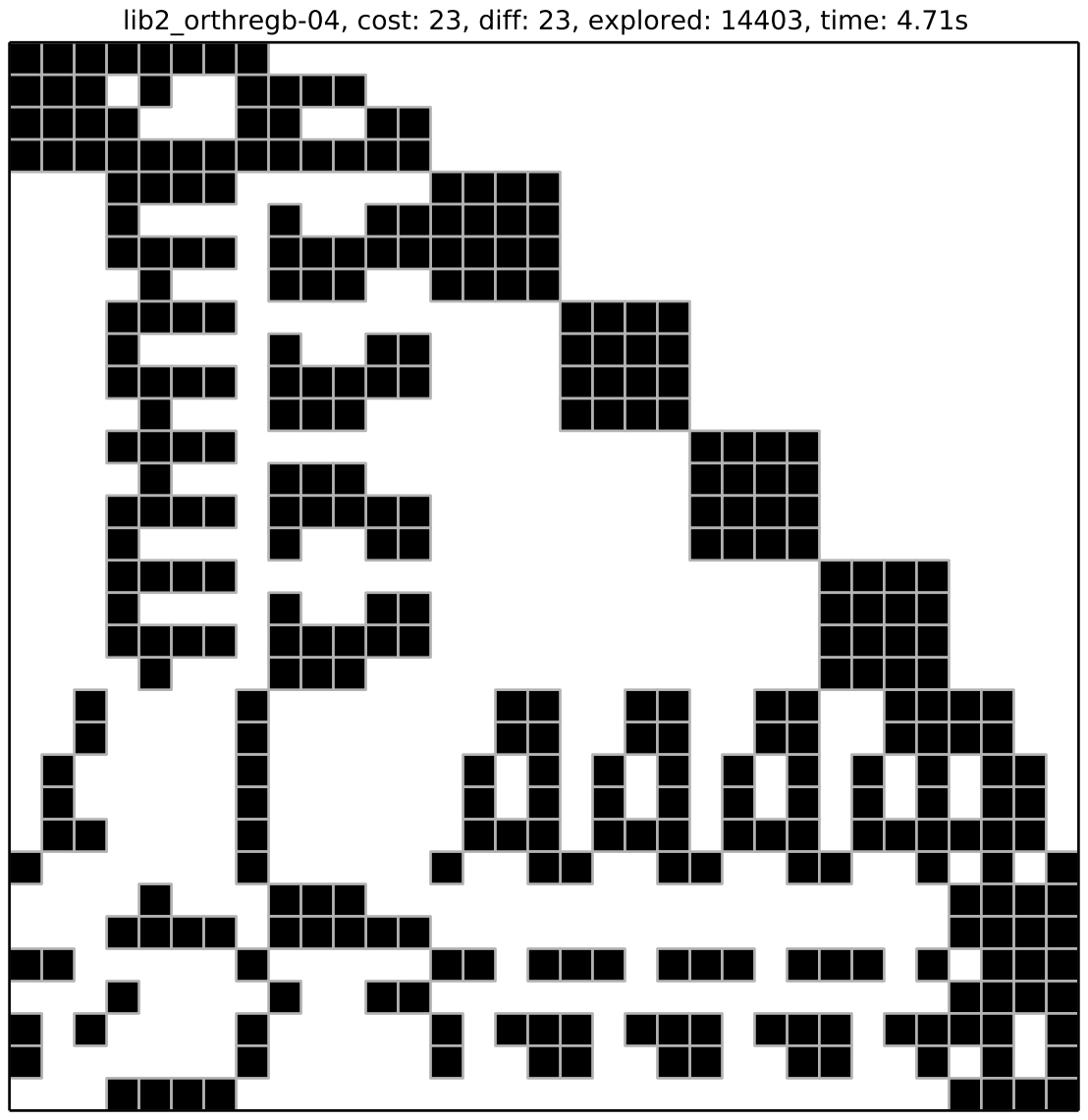


lib2_orthregb-04 33x33 (348) con: 6, var: 27

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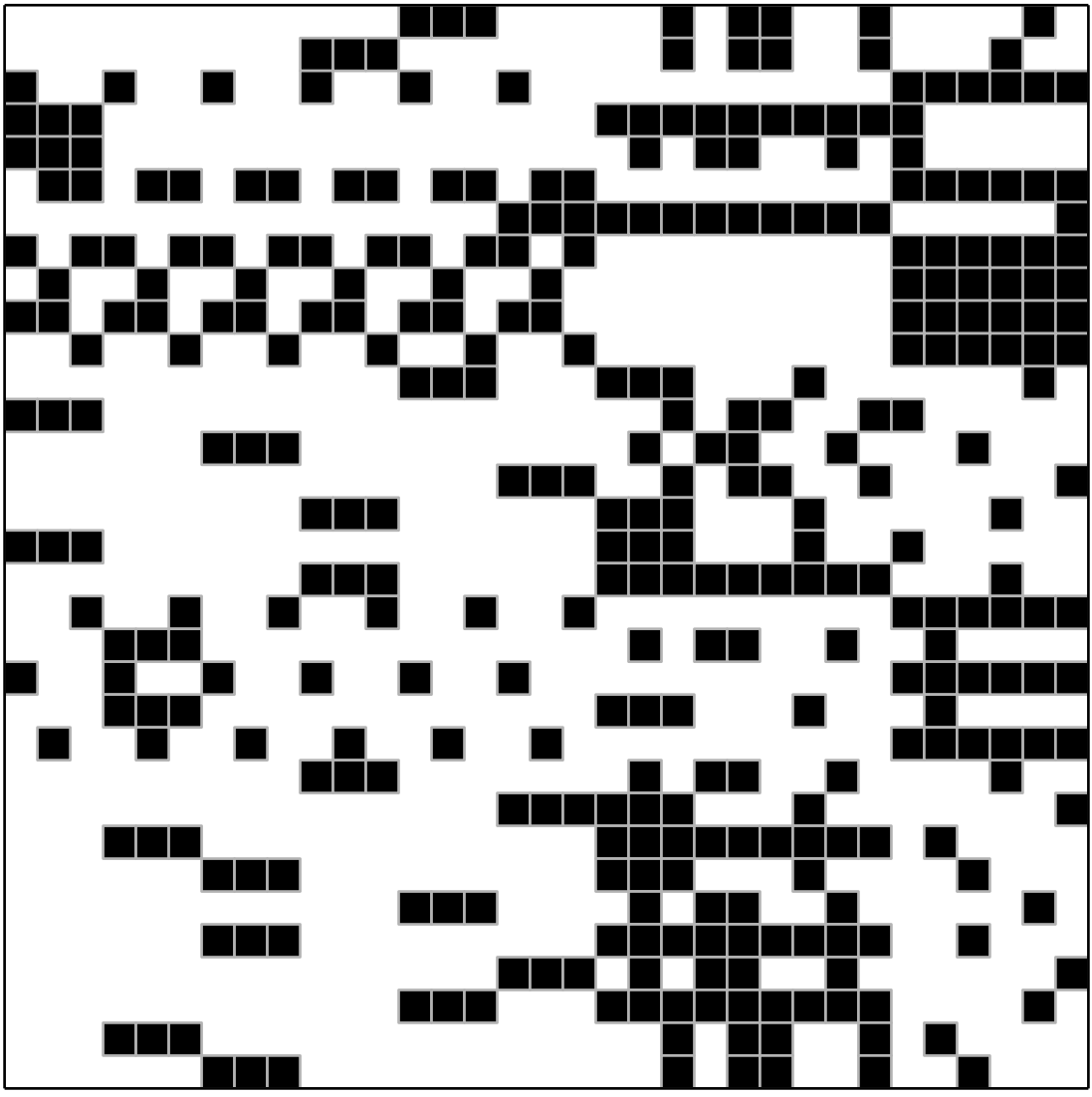
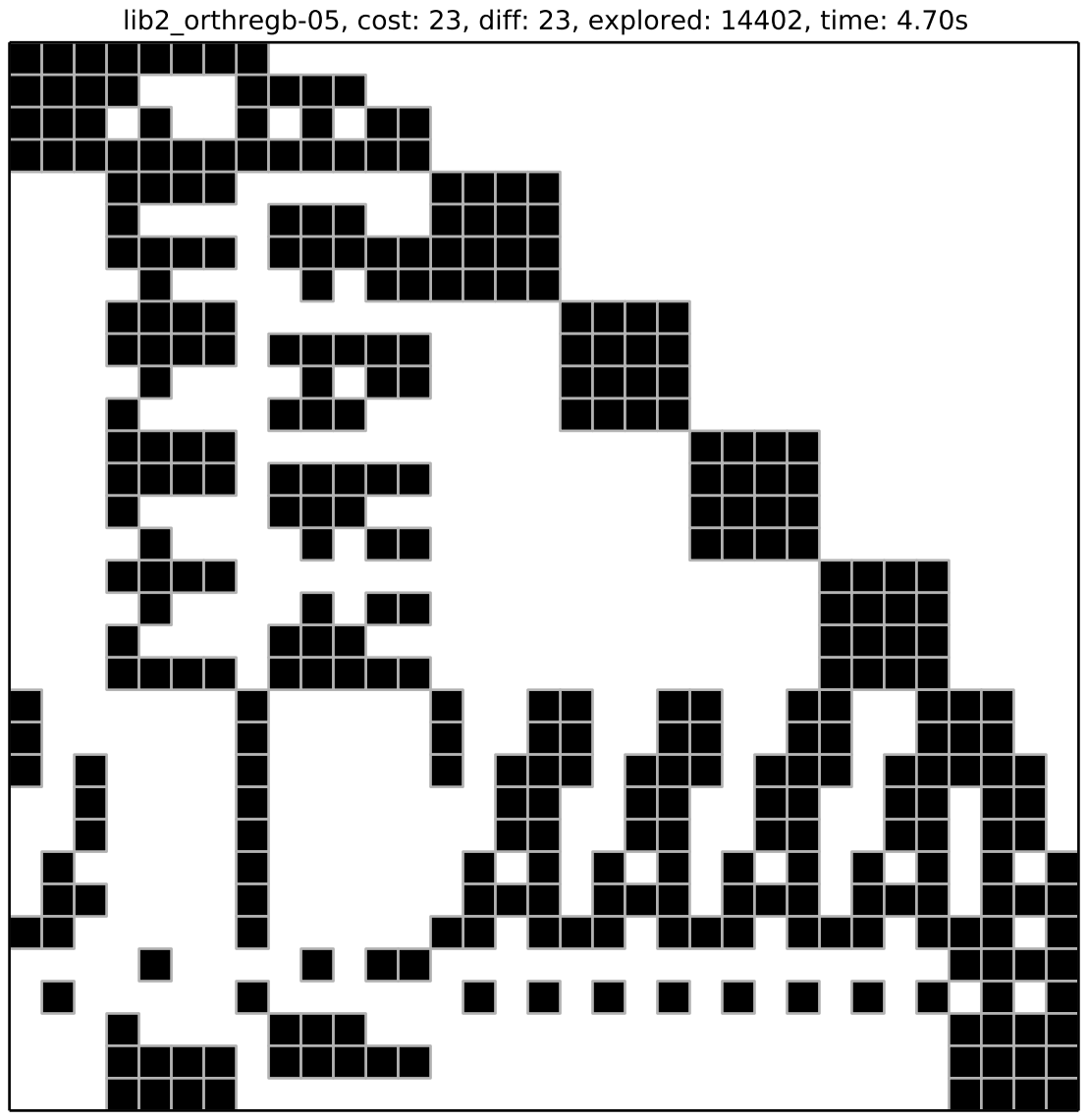
lib2_orthregb-05 33x33 (348) con: 6, var: 27

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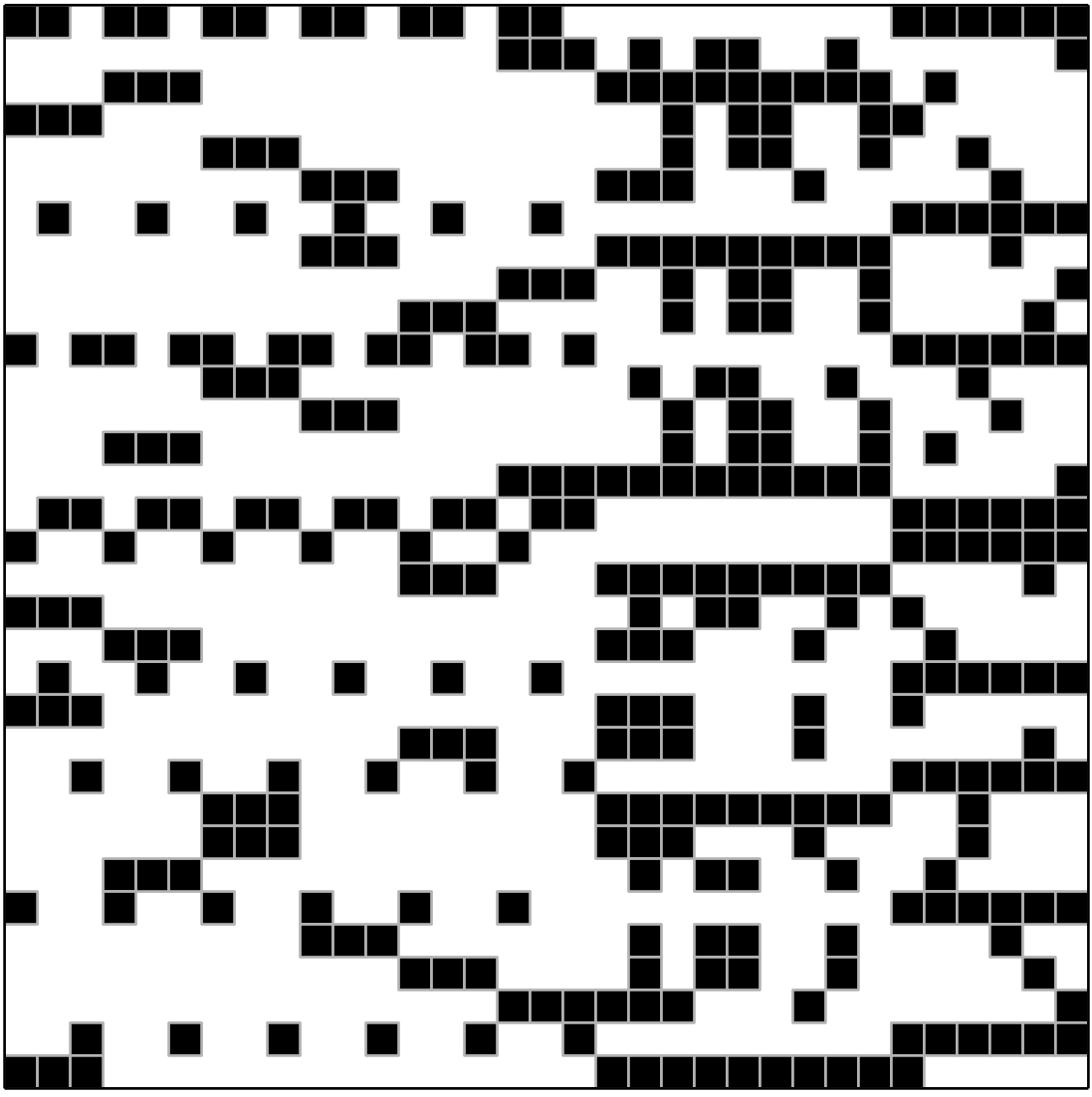
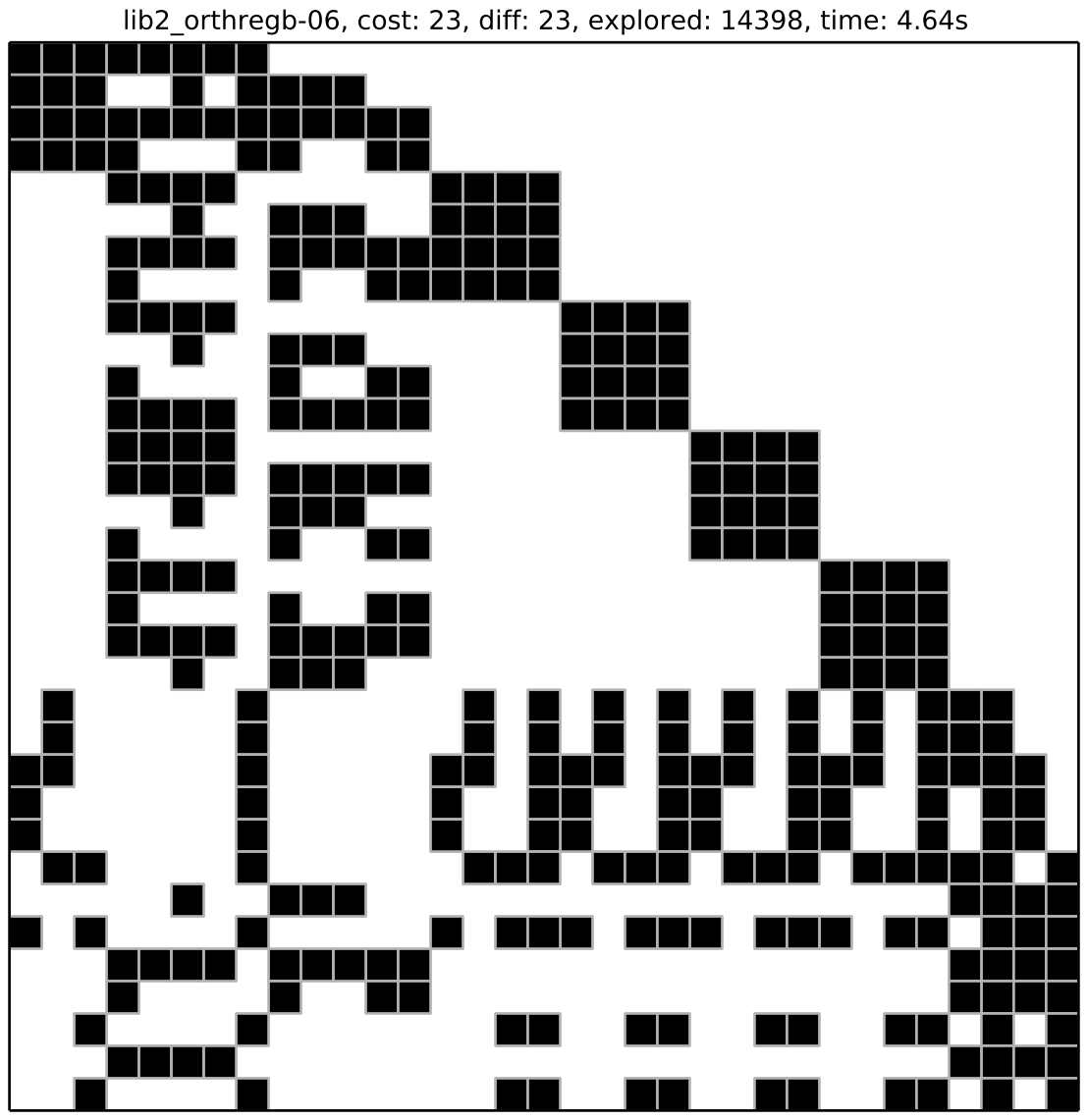
lib2_orthregb-06 33x33 (348) con: 6, var: 27

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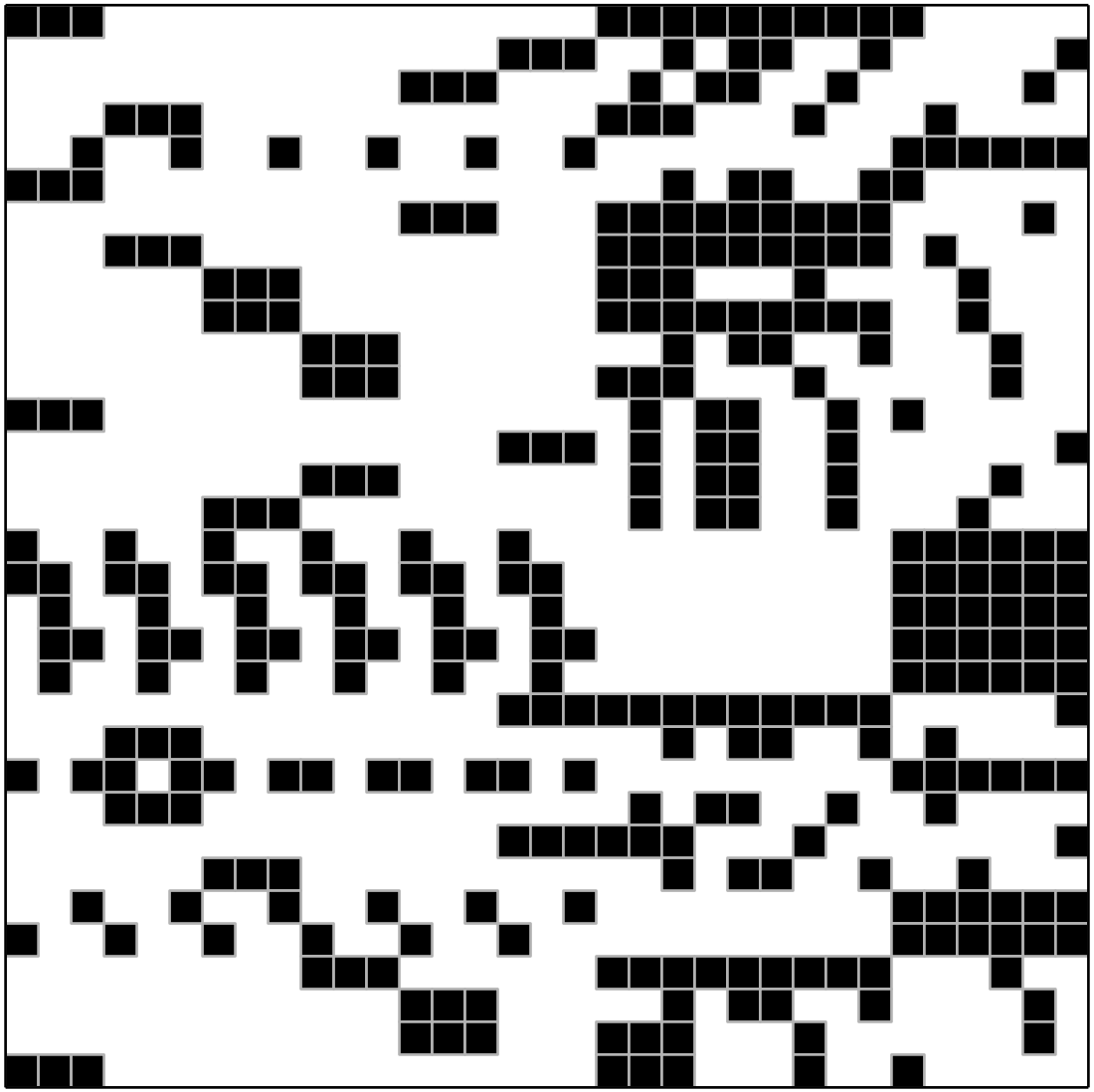
lib2_orthregb-07 33x33 (348) con: 6, var: 27



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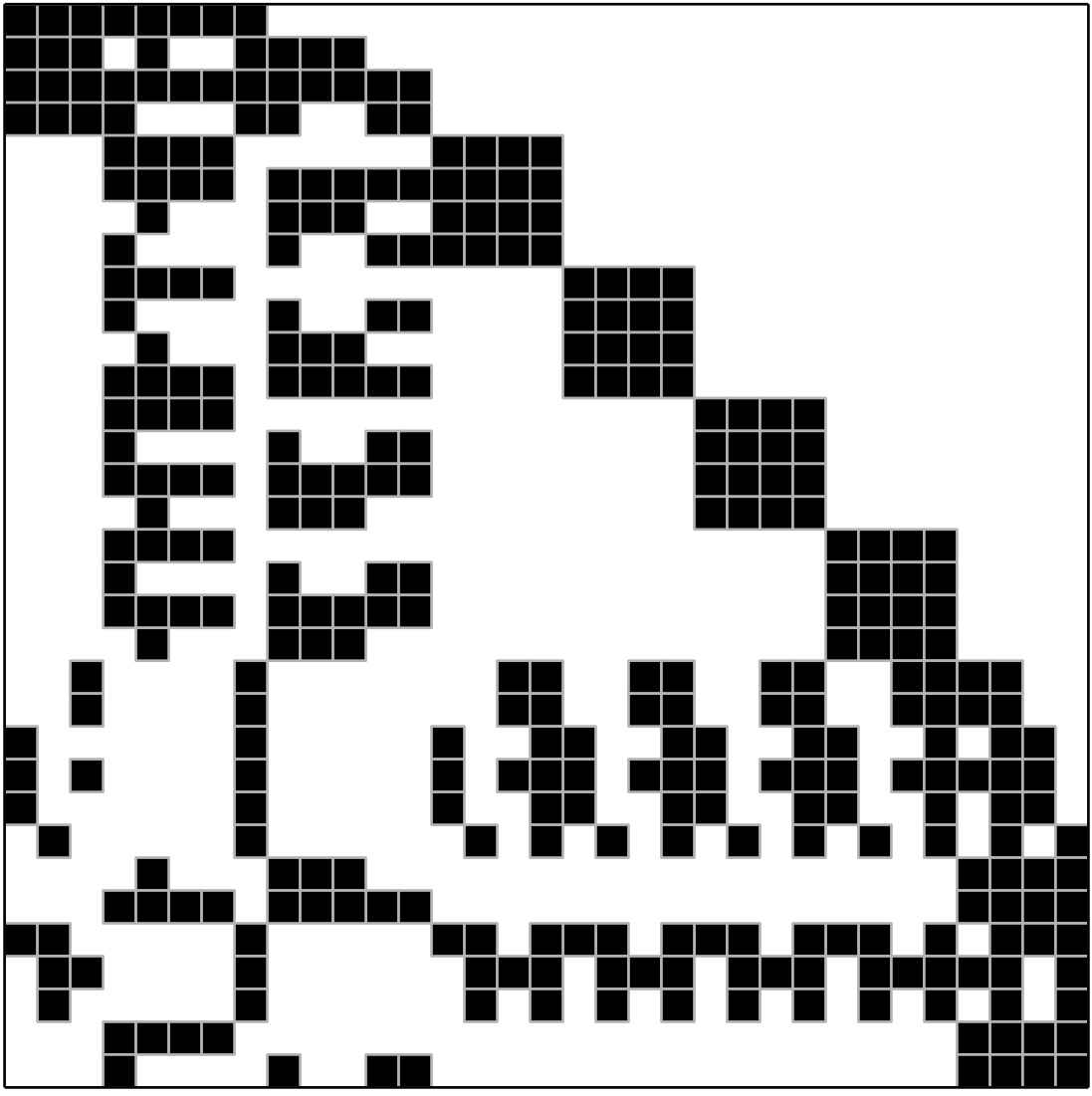
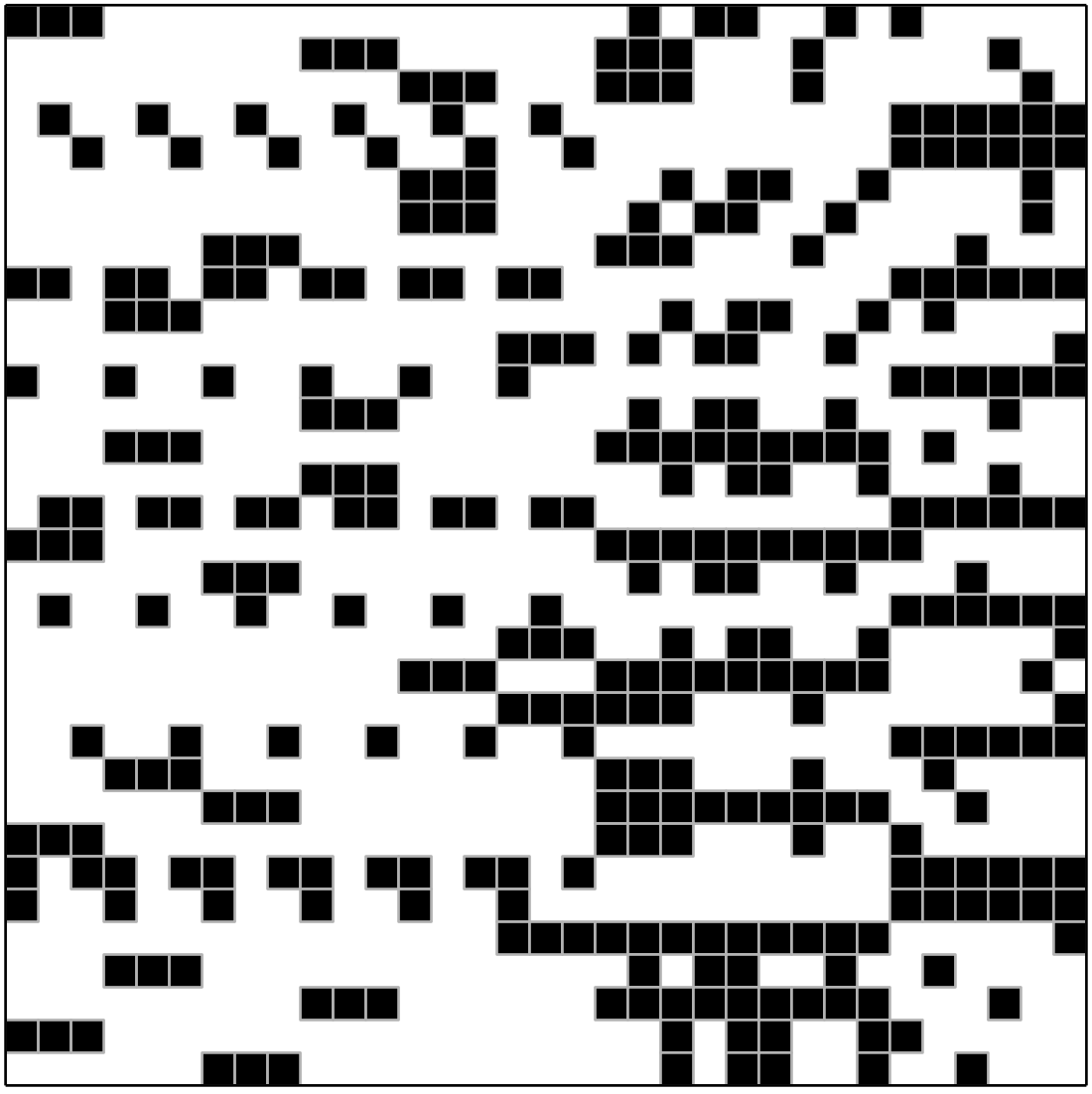
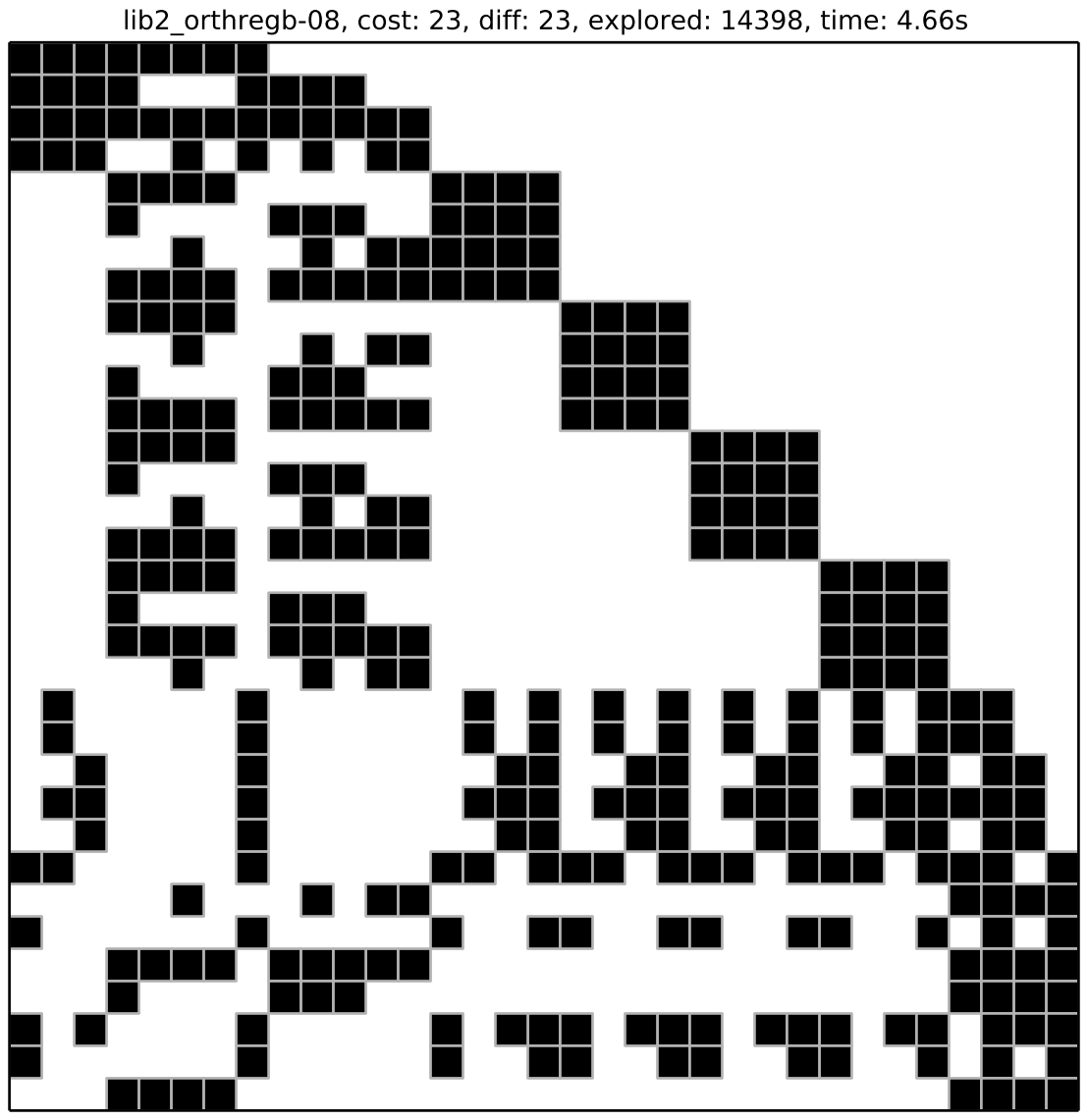


lib2_orthregb-08 33x33 (348) con: 6, var: 27

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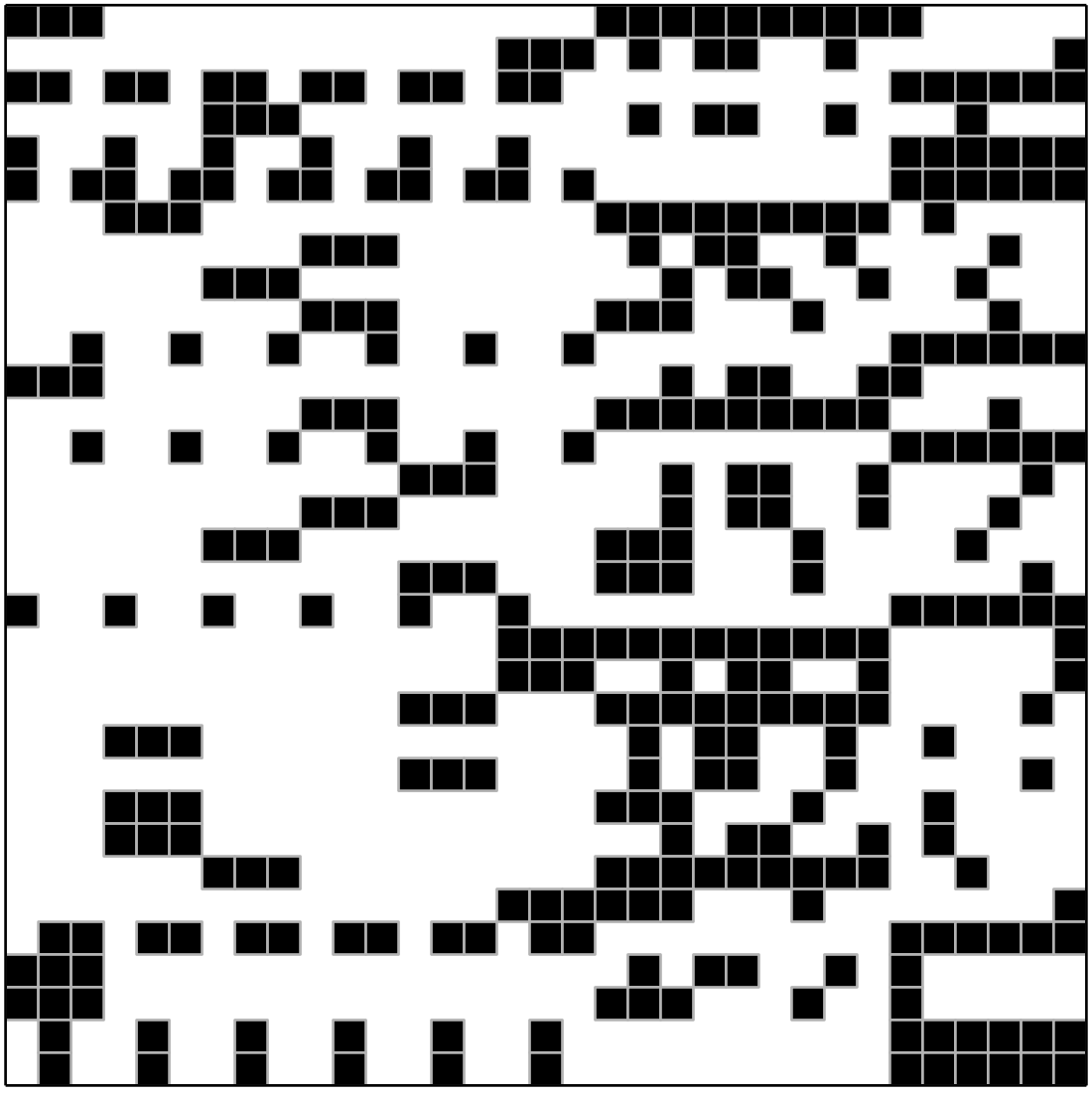
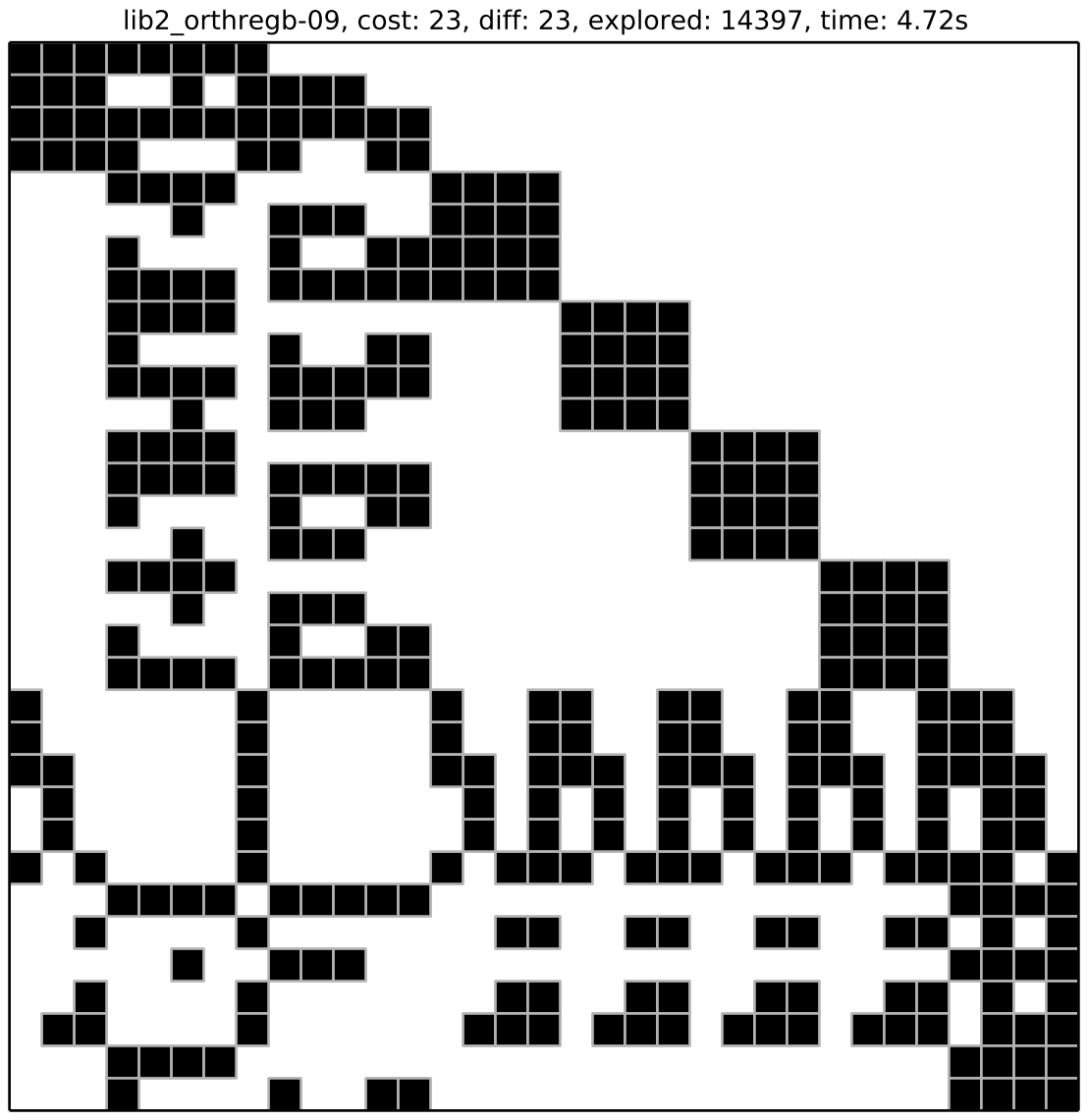
lib2_orthregb-09 33x33 (348) con: 6, var: 27

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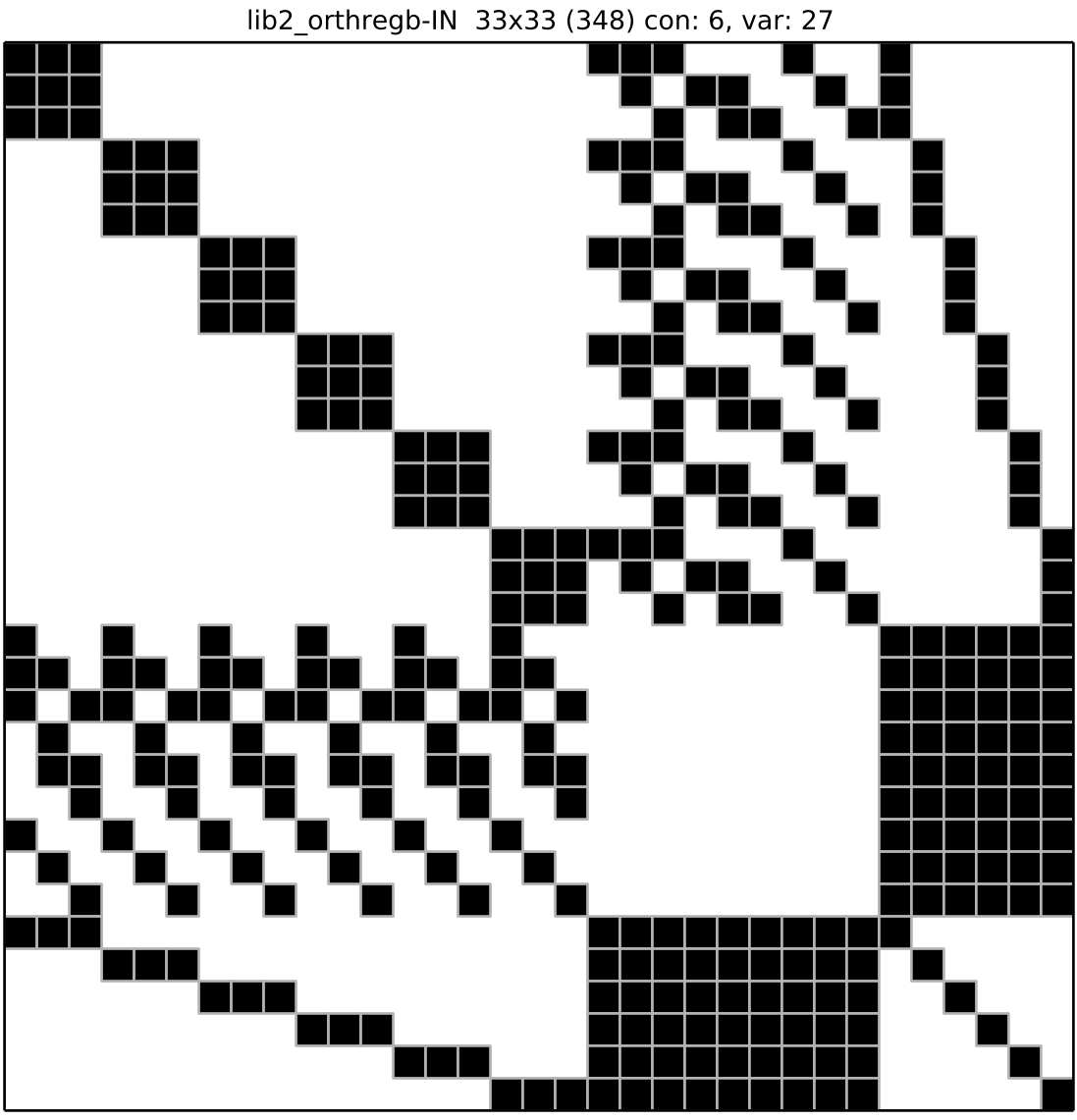
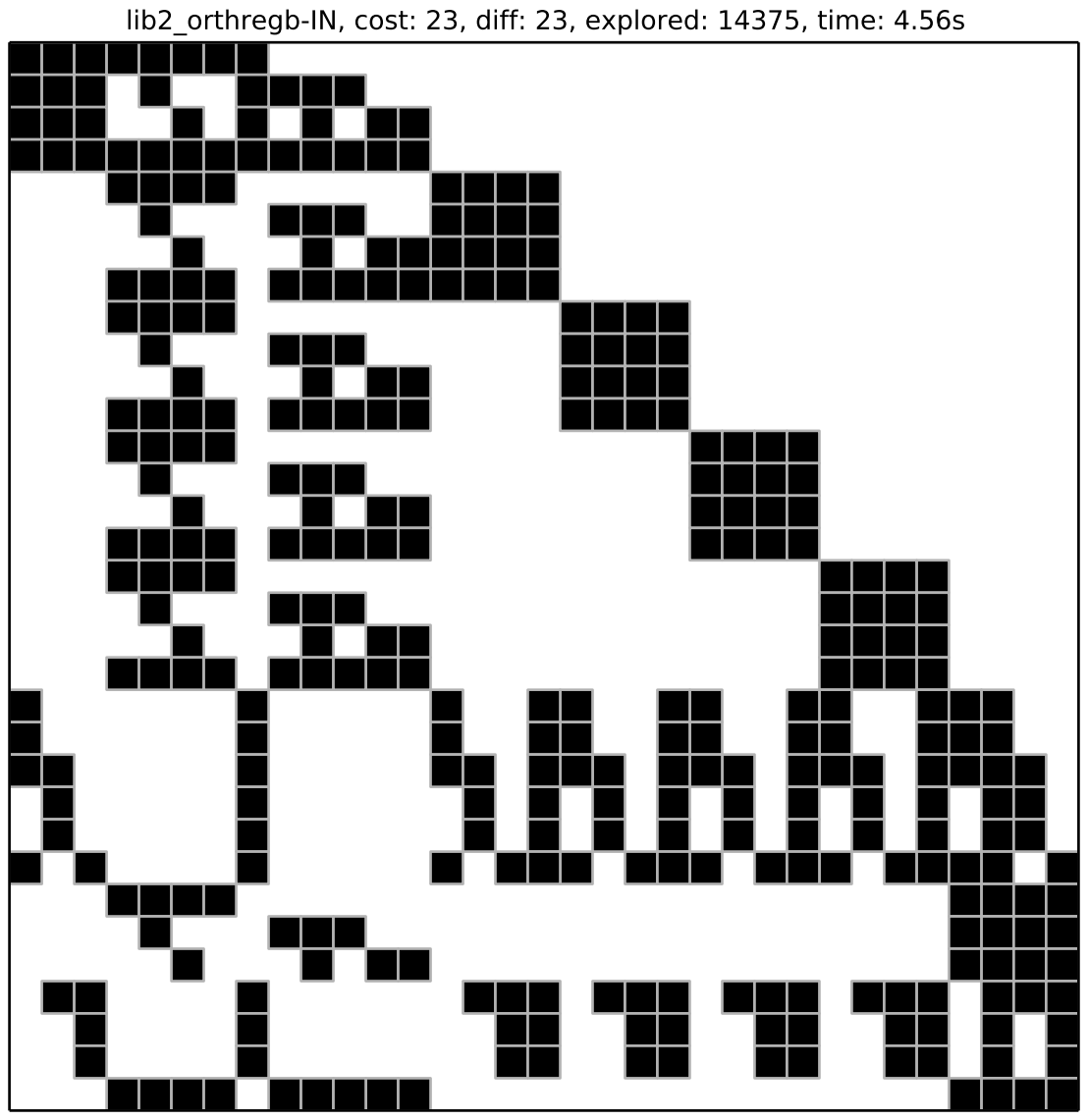

lib2_orthregb-IN 33x33 (348) con: 6, var: 27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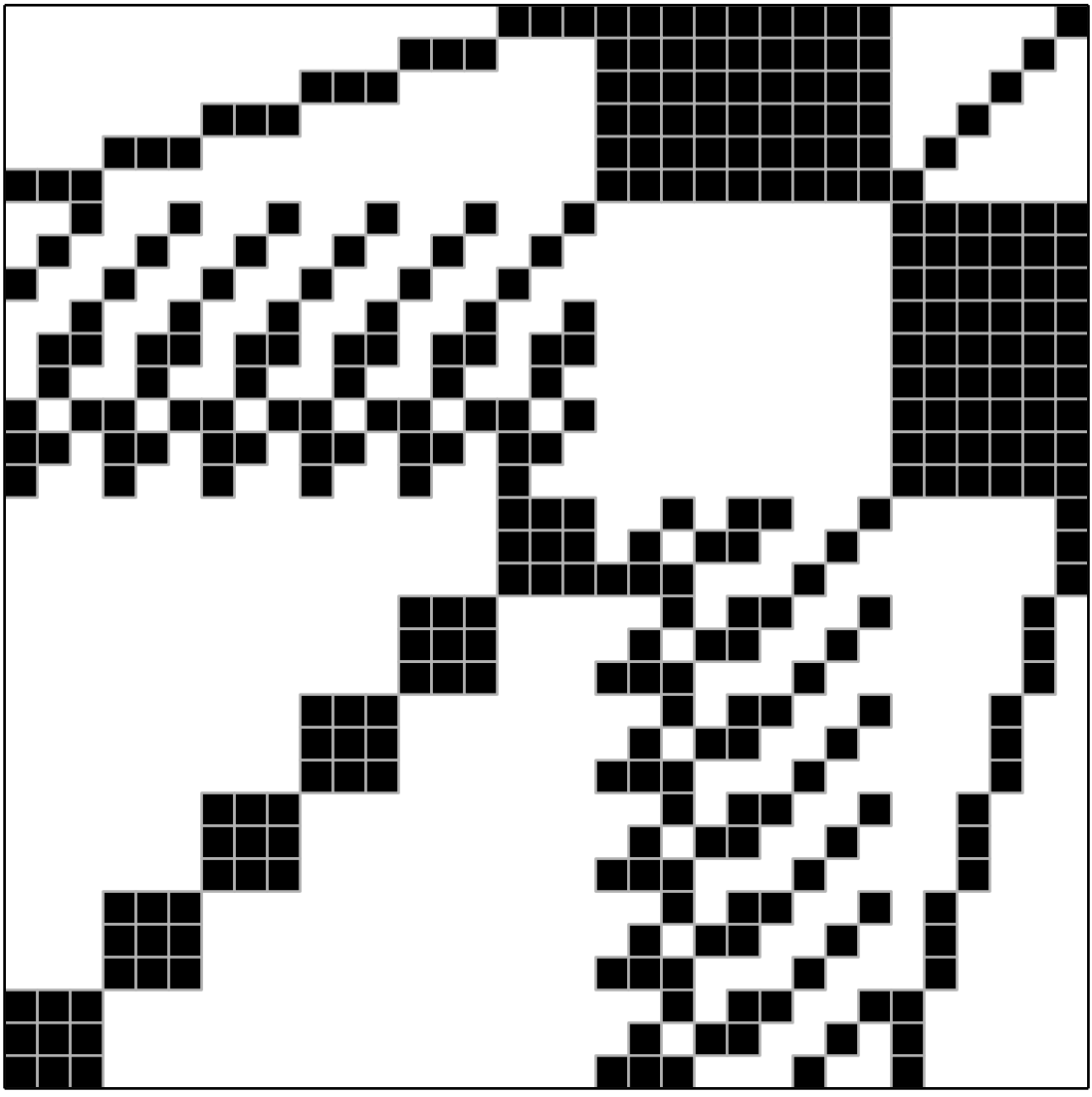
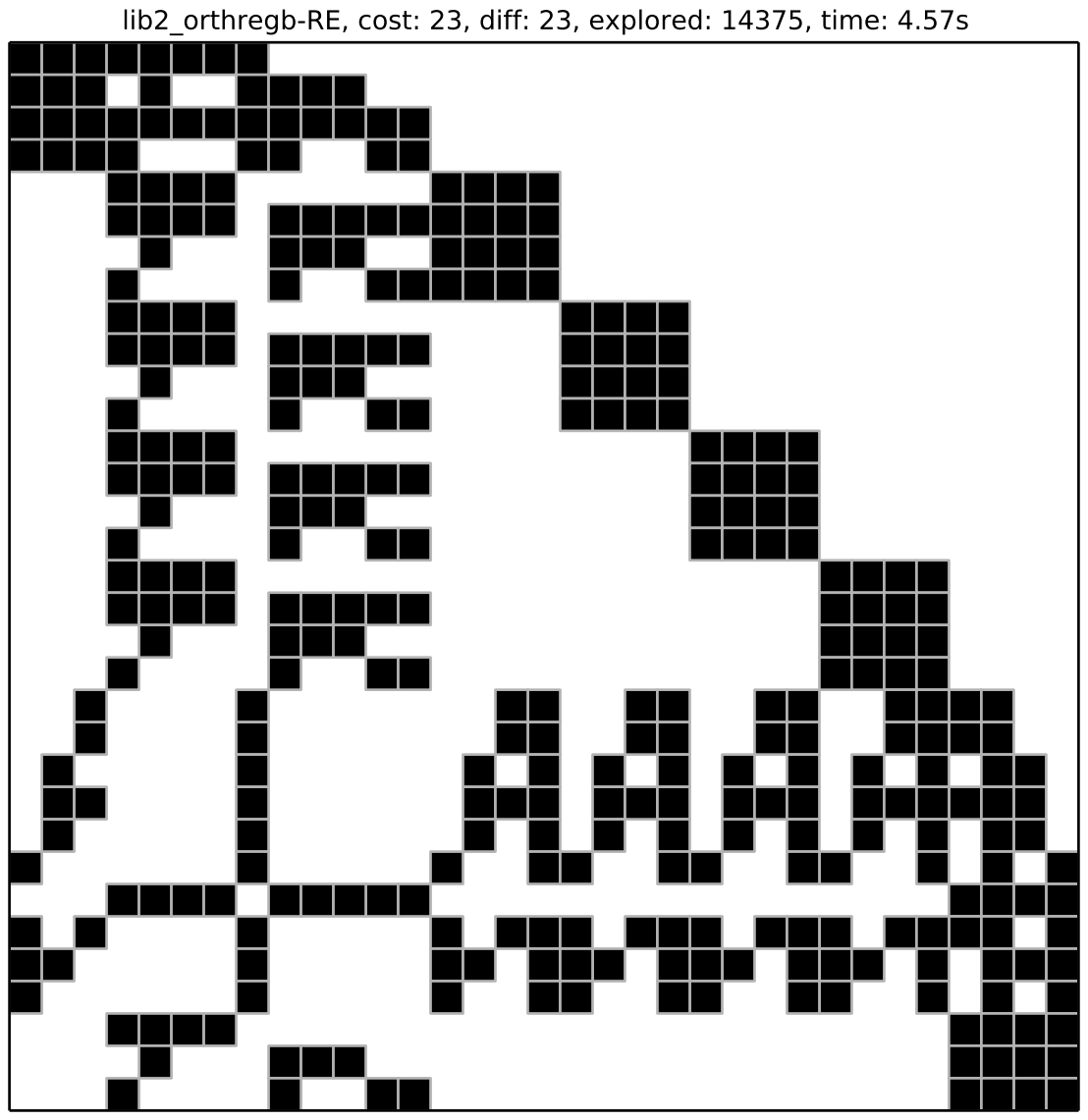
lib2_orthregb-RE 33x33 (348) con: 6, var: 27

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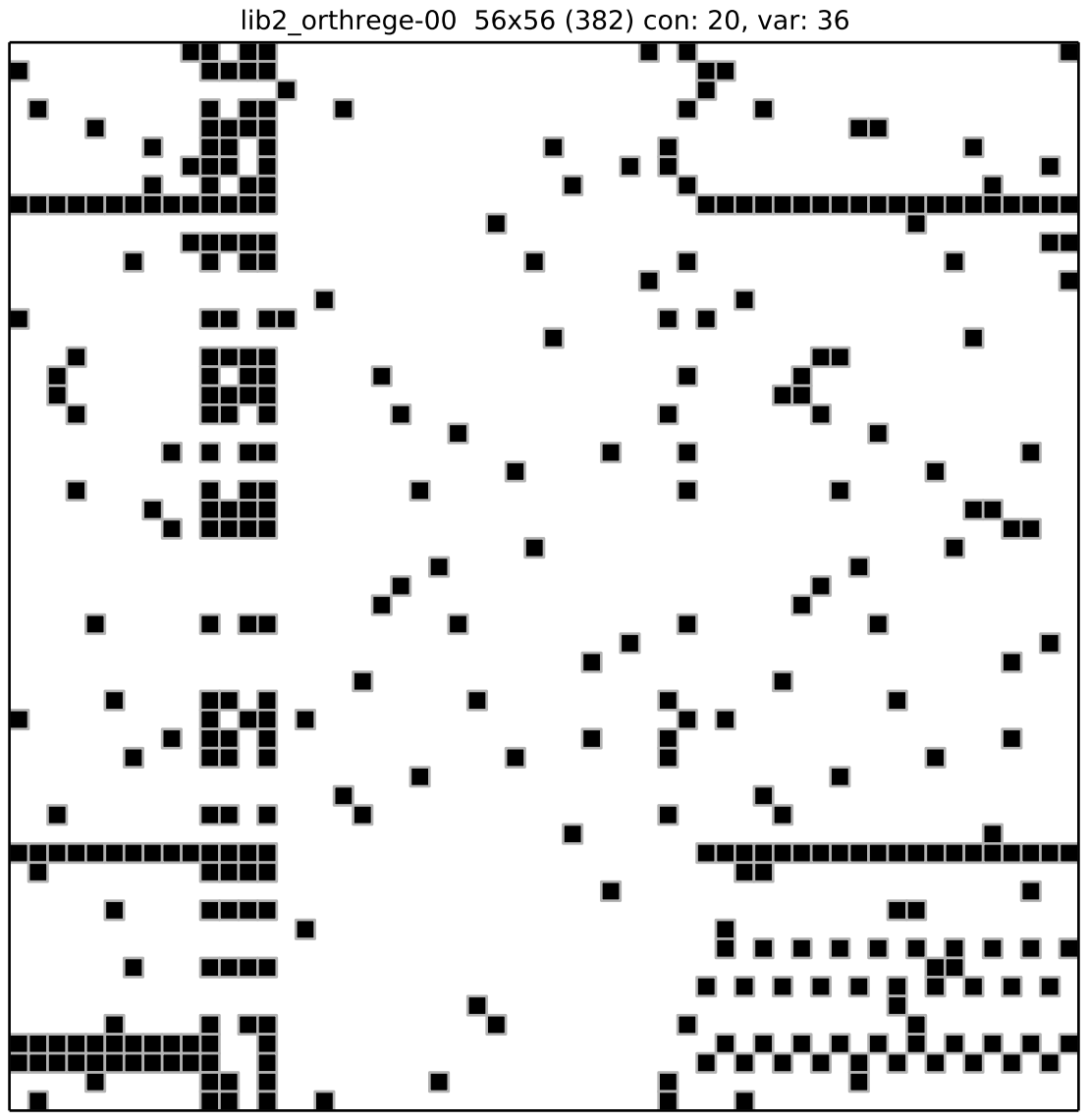
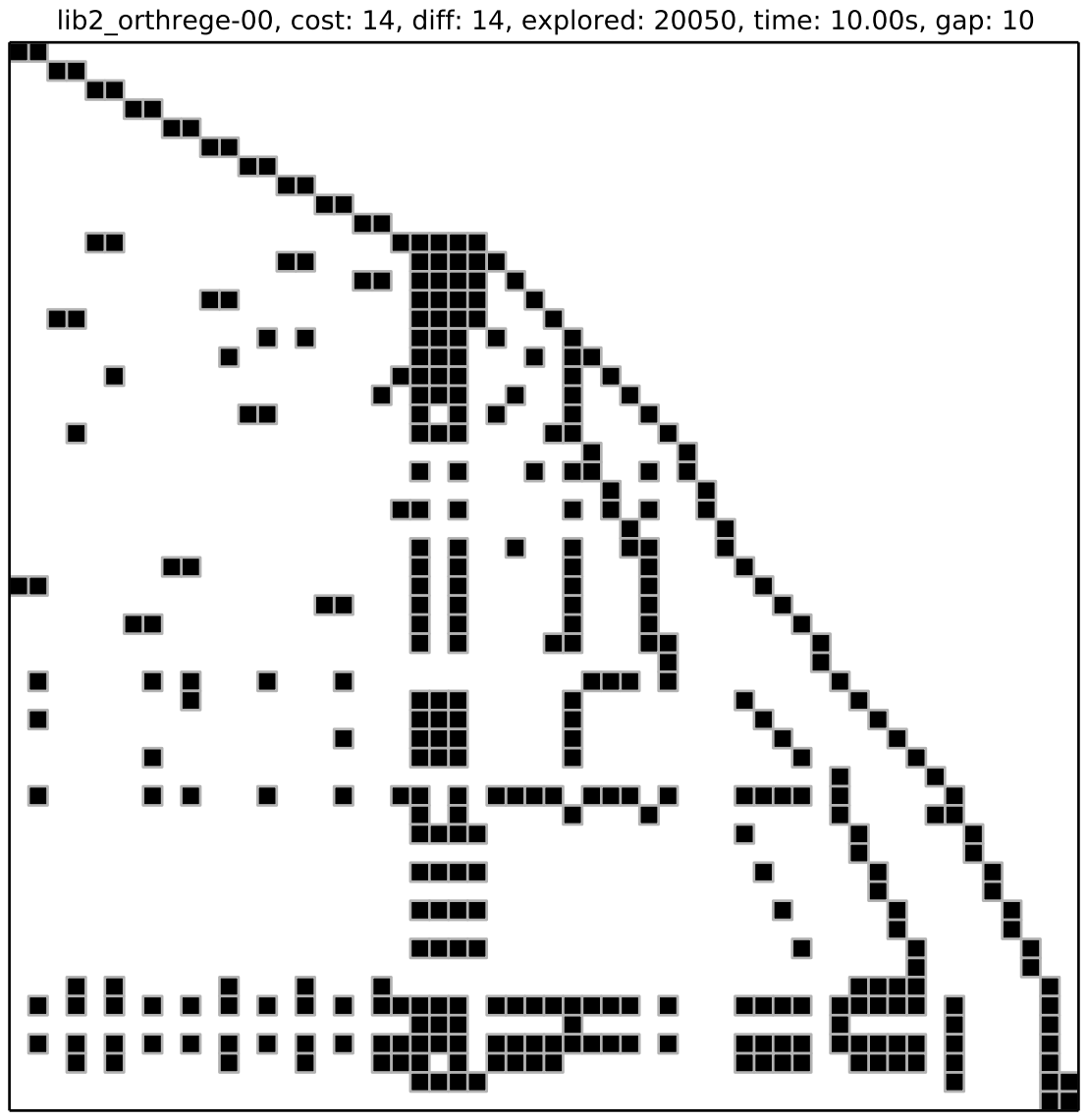
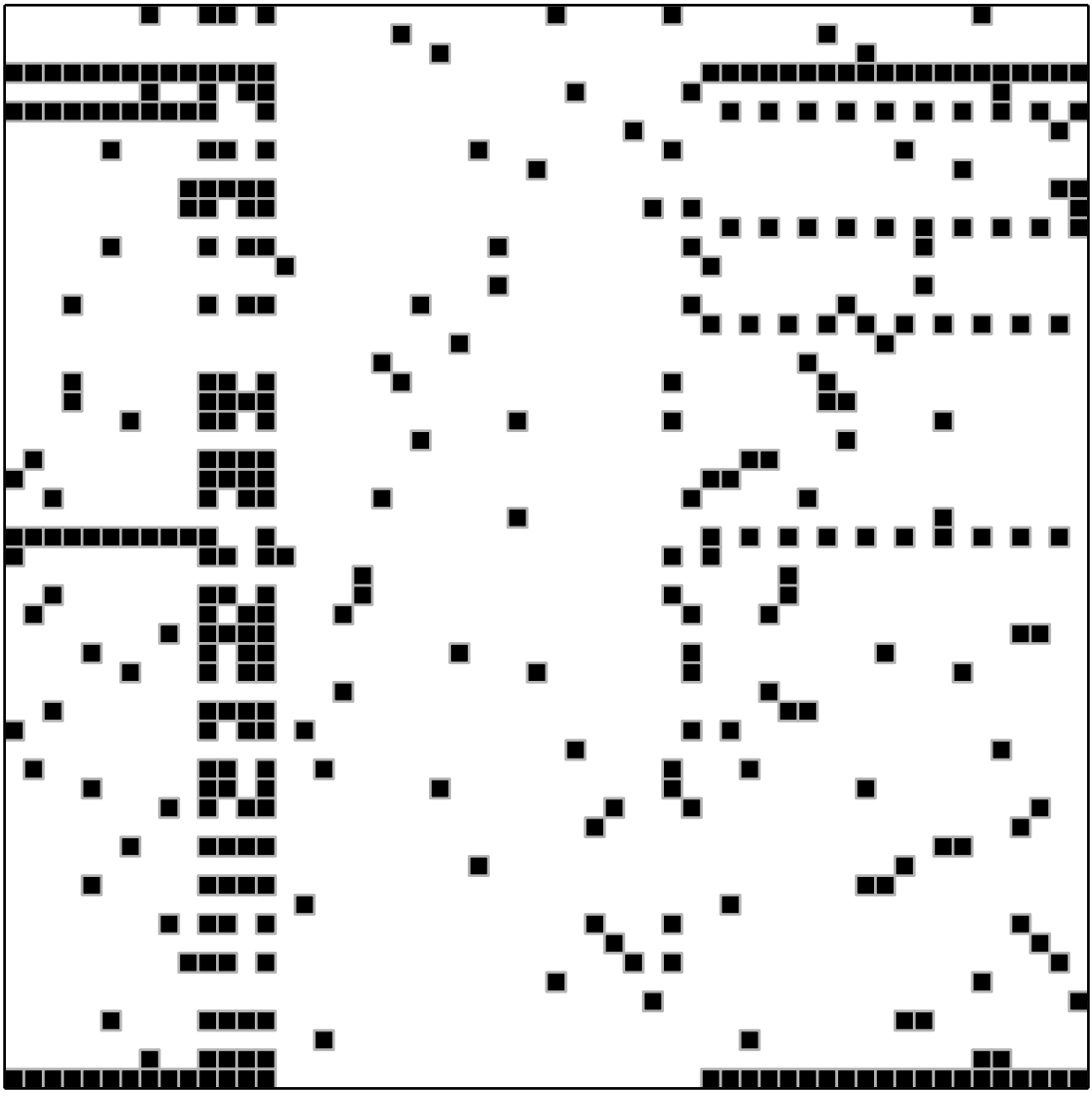
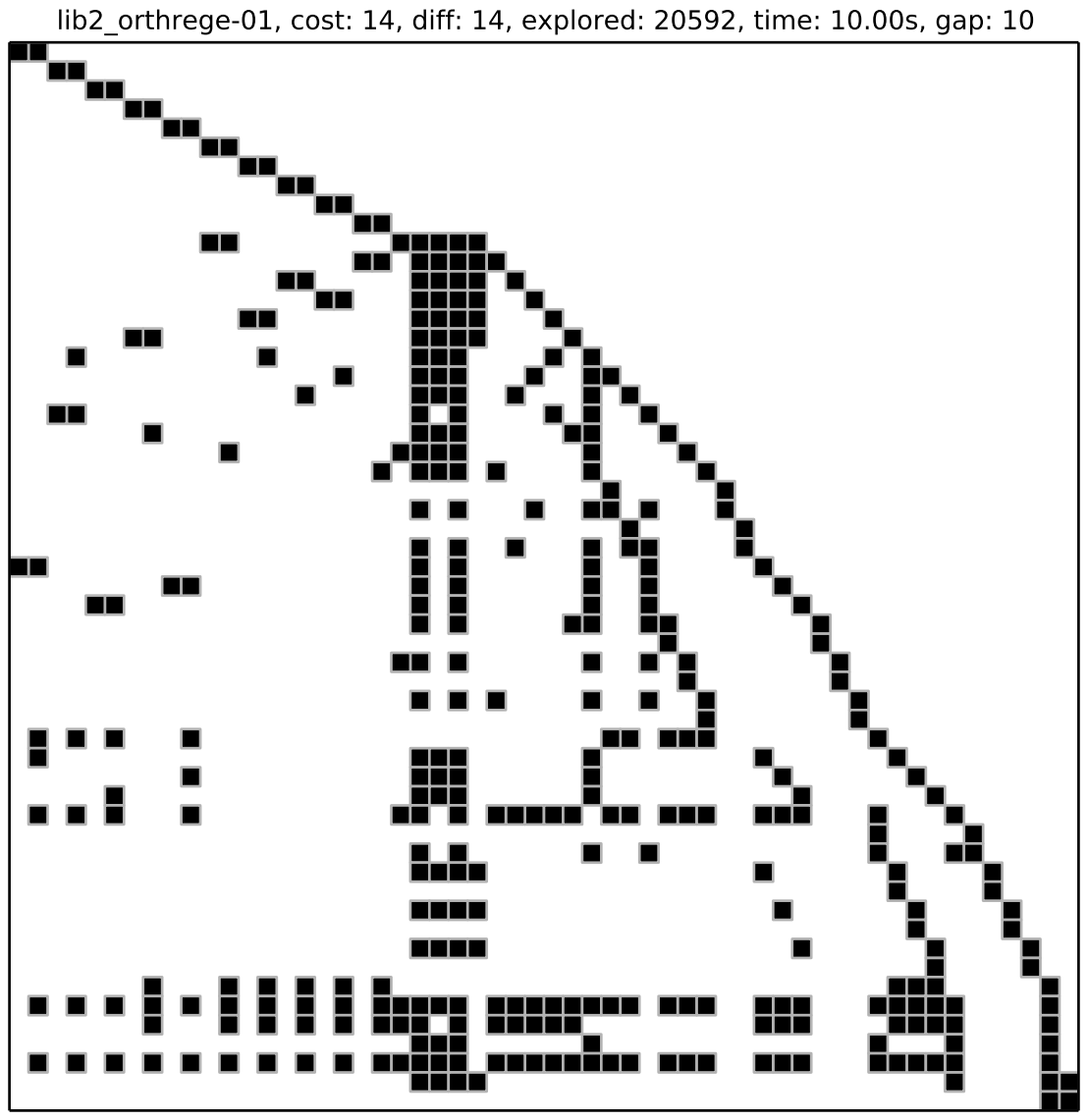

lib2_orthrege-00 56x56 (382) con: 20, var: 36


lib2_orthrege-00, cost: 14, diff: 14, explored: 20050, time: 10.00s, gap: 10

lib2_orthrege-01 56x56 (382) con: 20, var: 36

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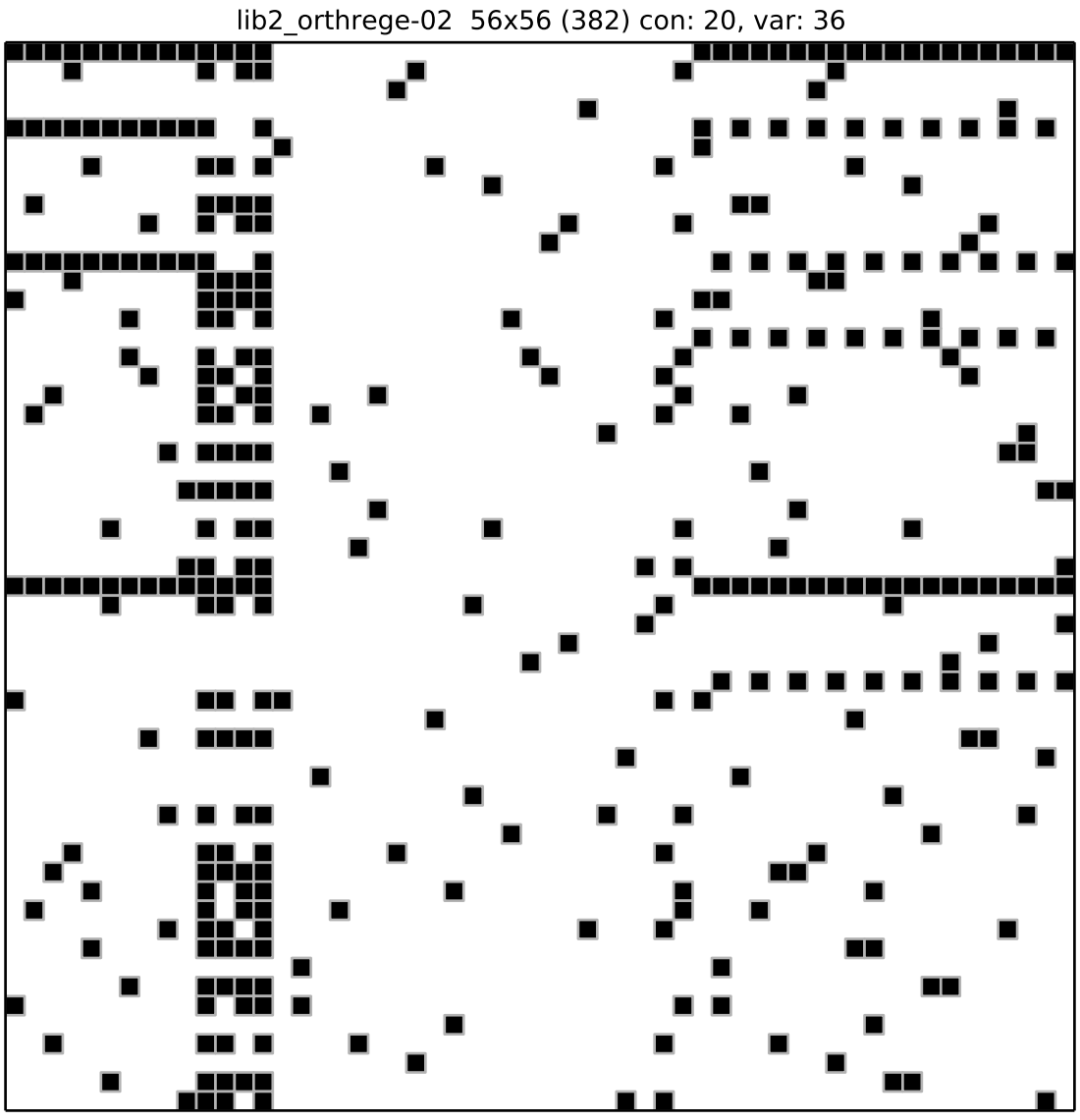
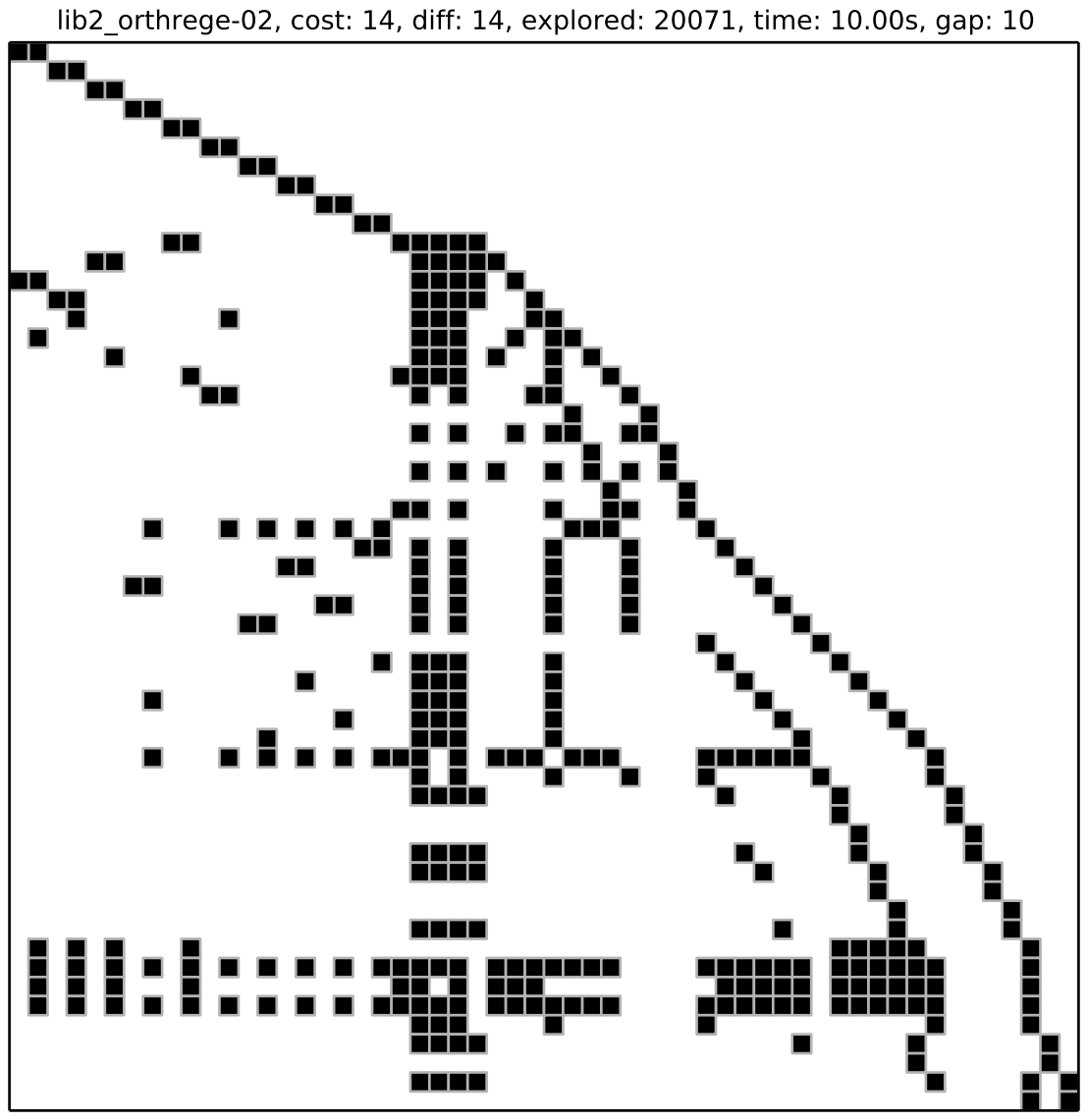

lib2_orthrege-02 56x56 (382) con: 20, var: 36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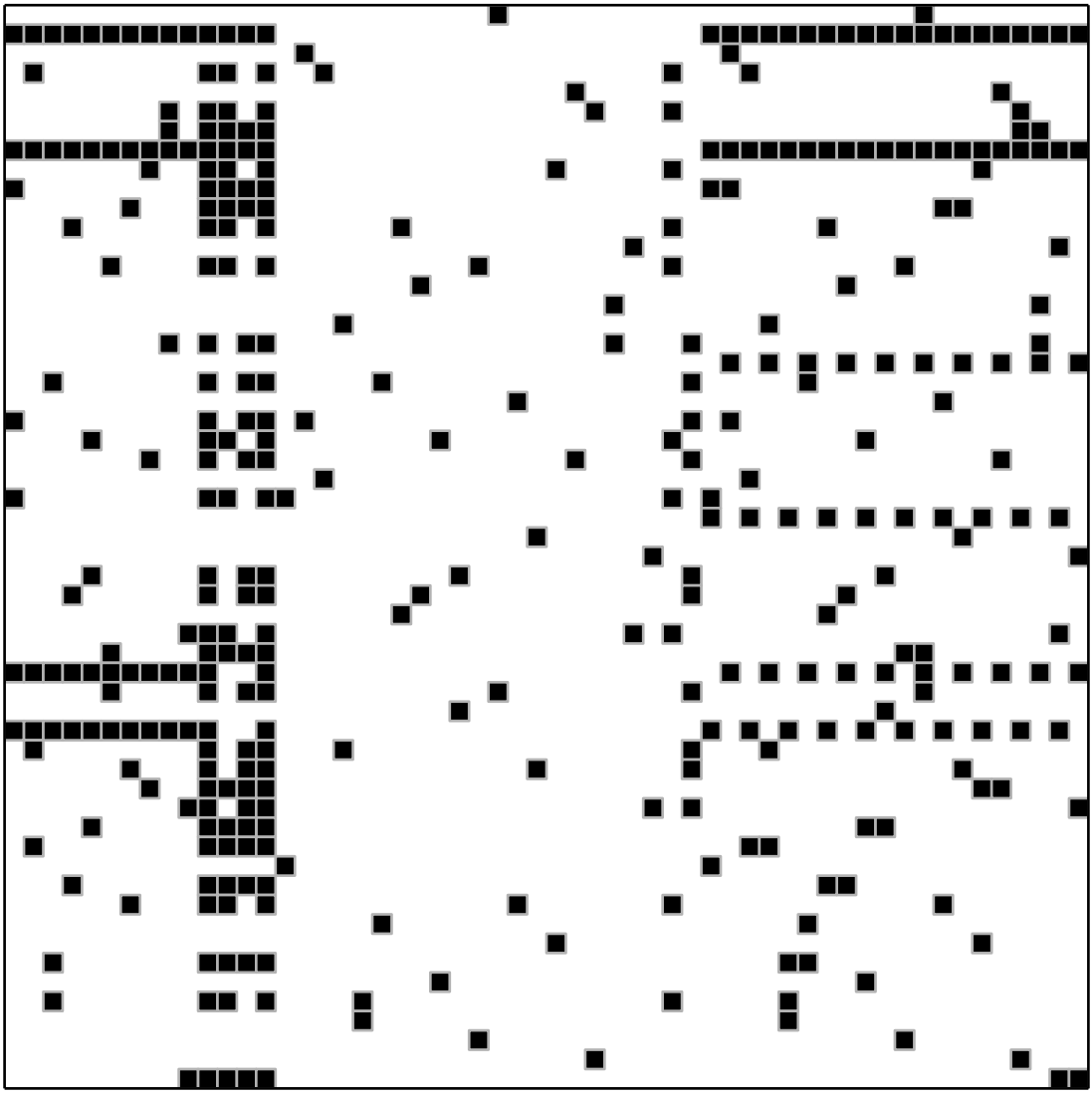
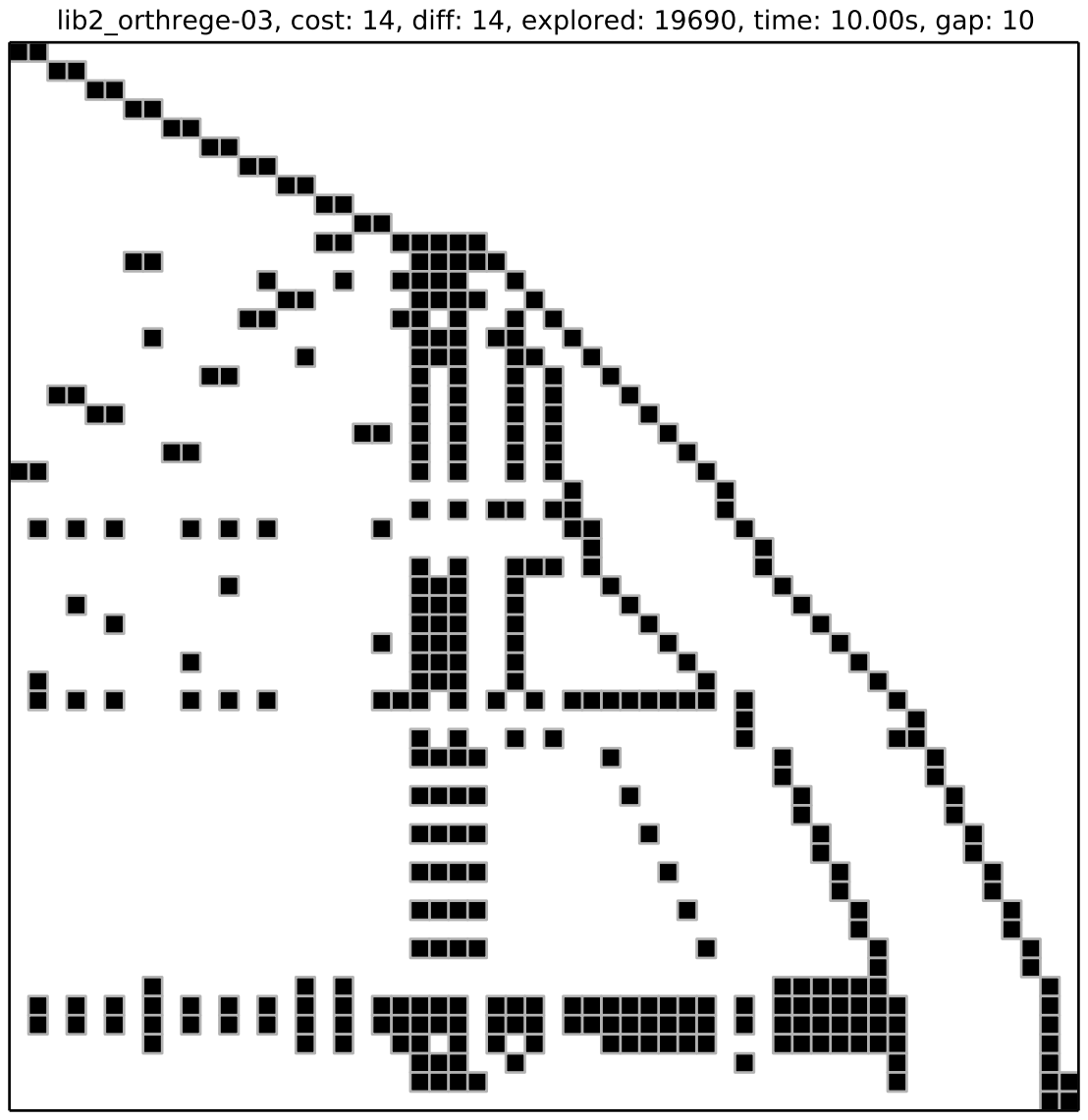
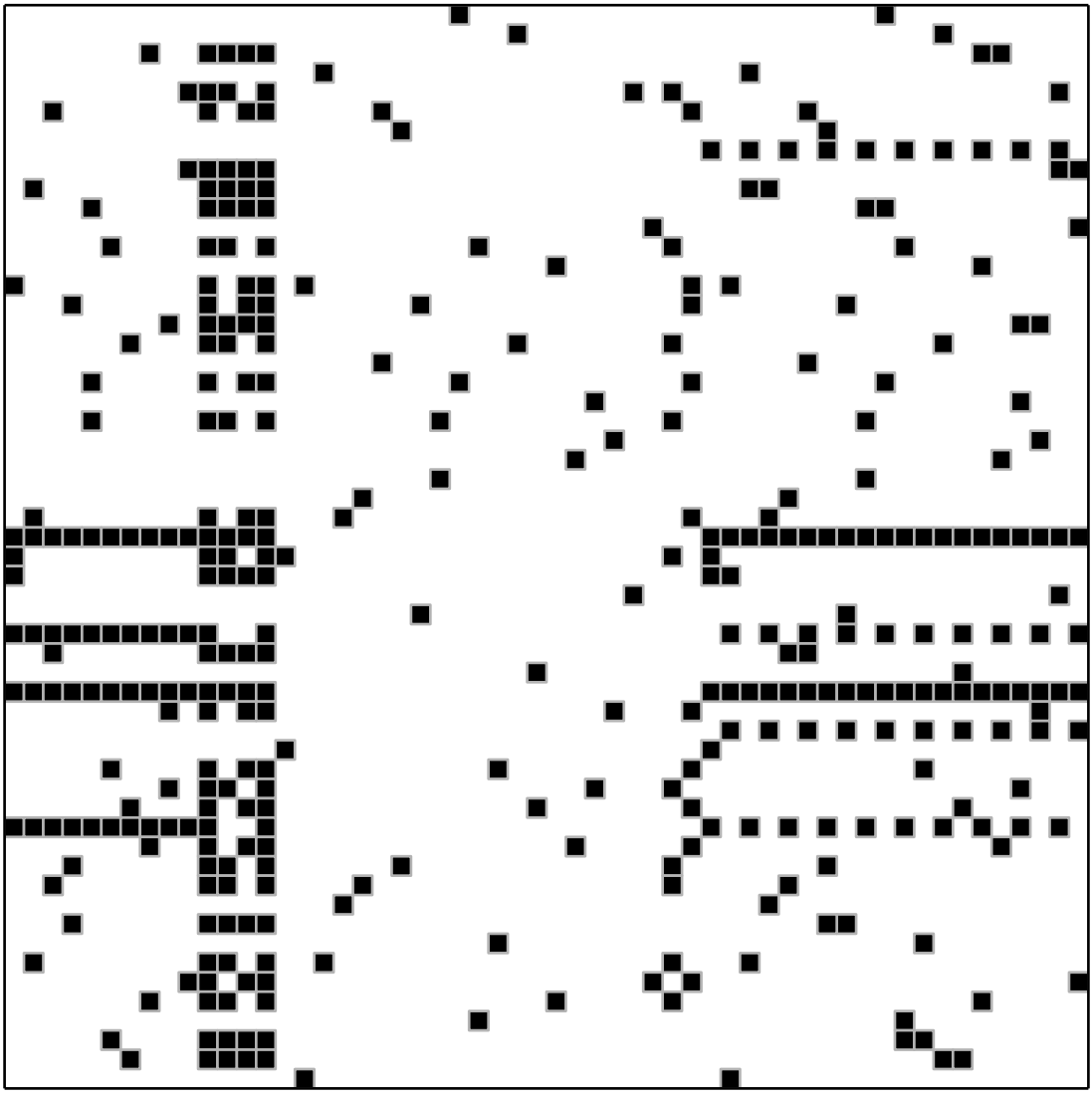
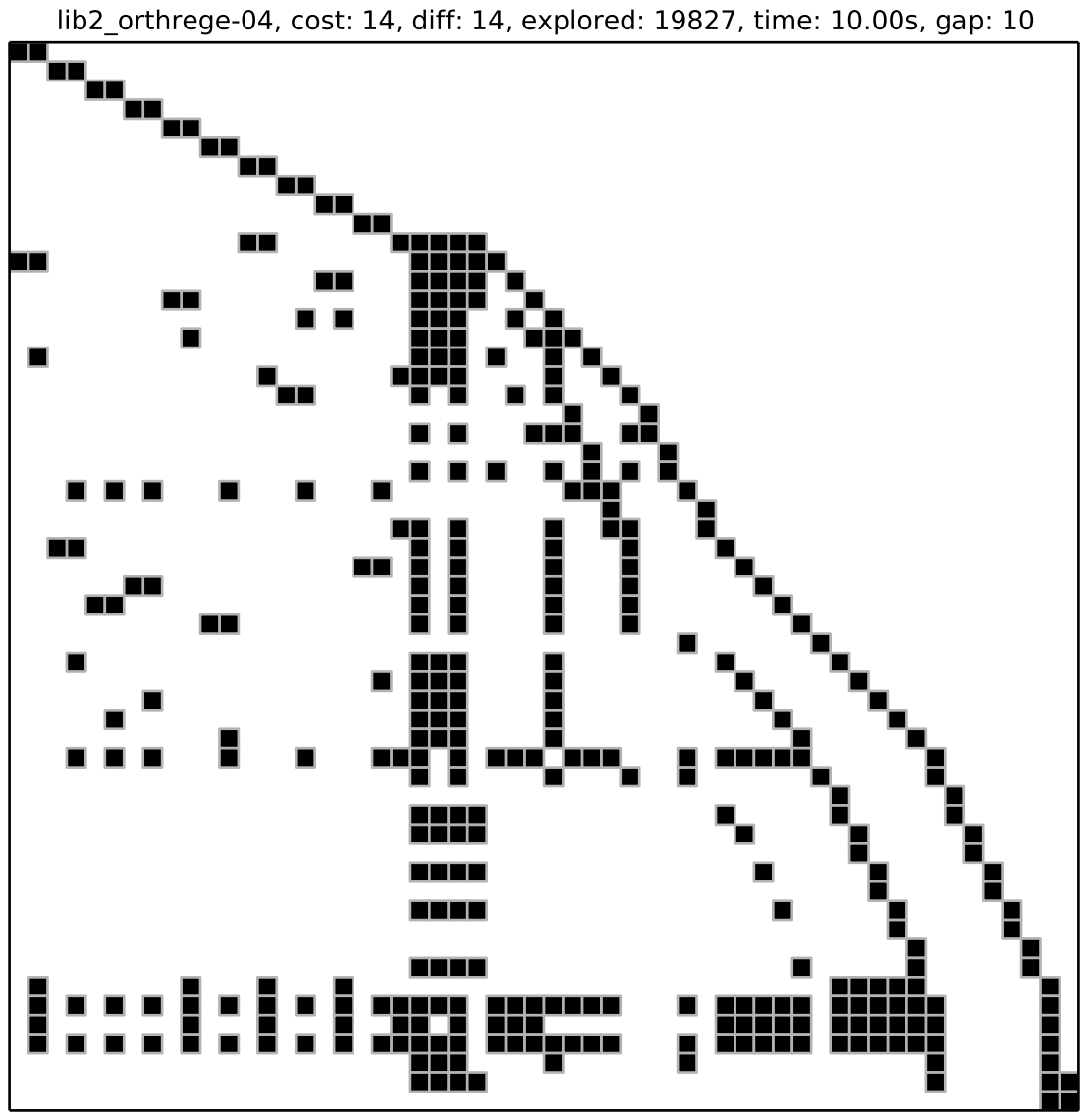
lib2_orthrege-03 56x56 (382) con: 20, var: 36



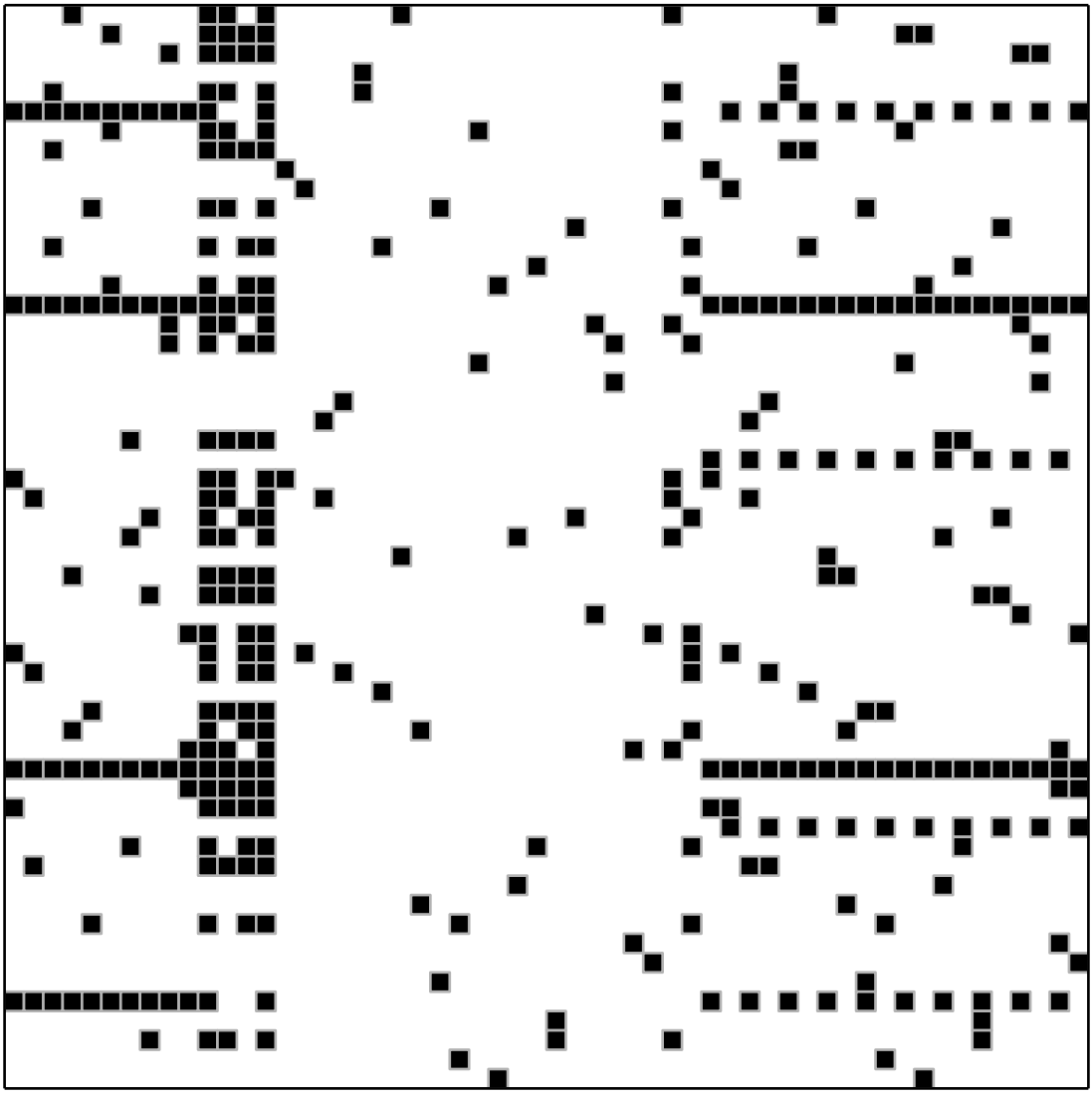

lib2_orthrege-03, cost: 14, diff: 14, explored: 19690, time: 10.00s, gap: 10

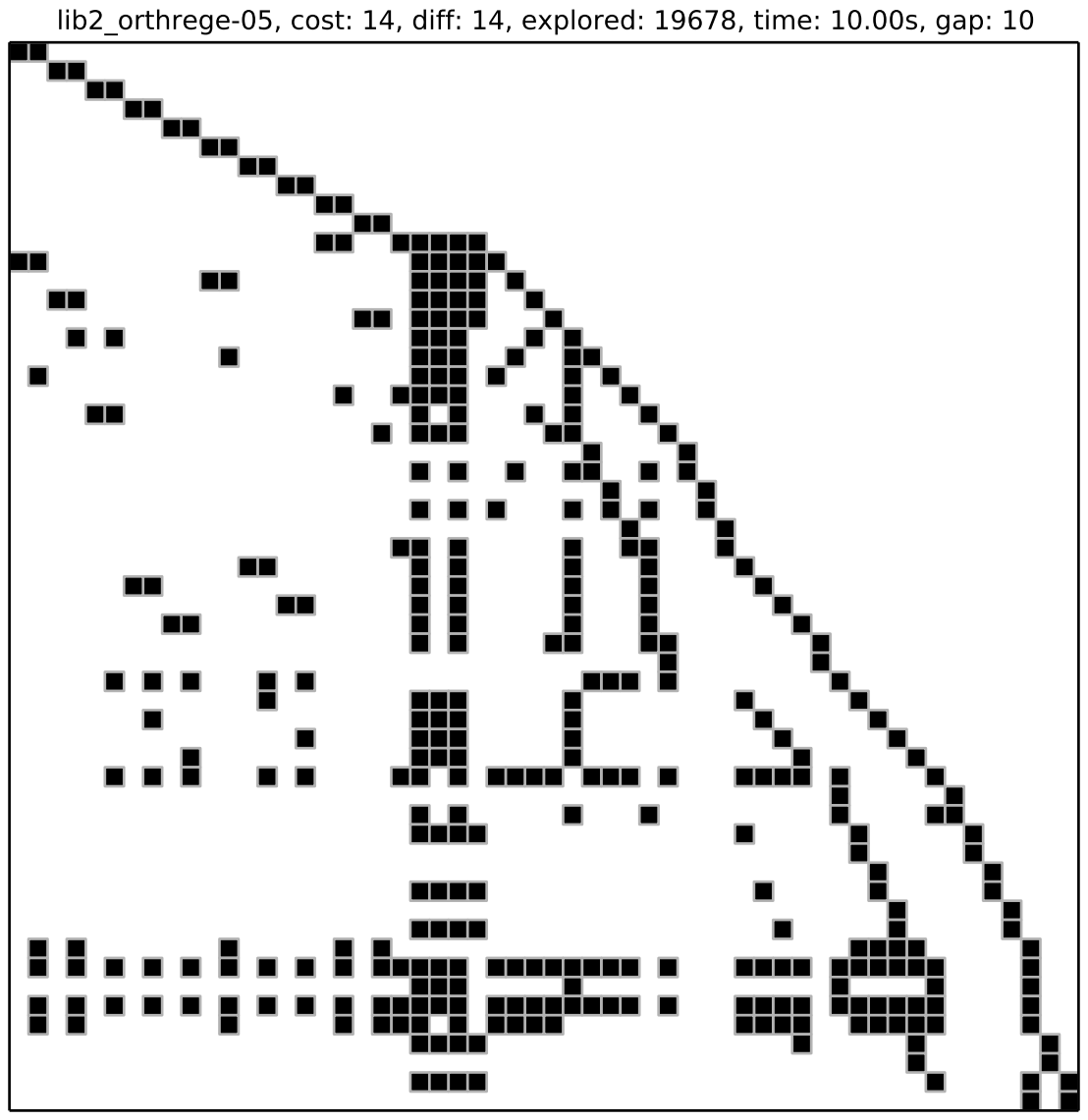
lib2_orthrege-04 56x56 (382) con: 20, var: 36



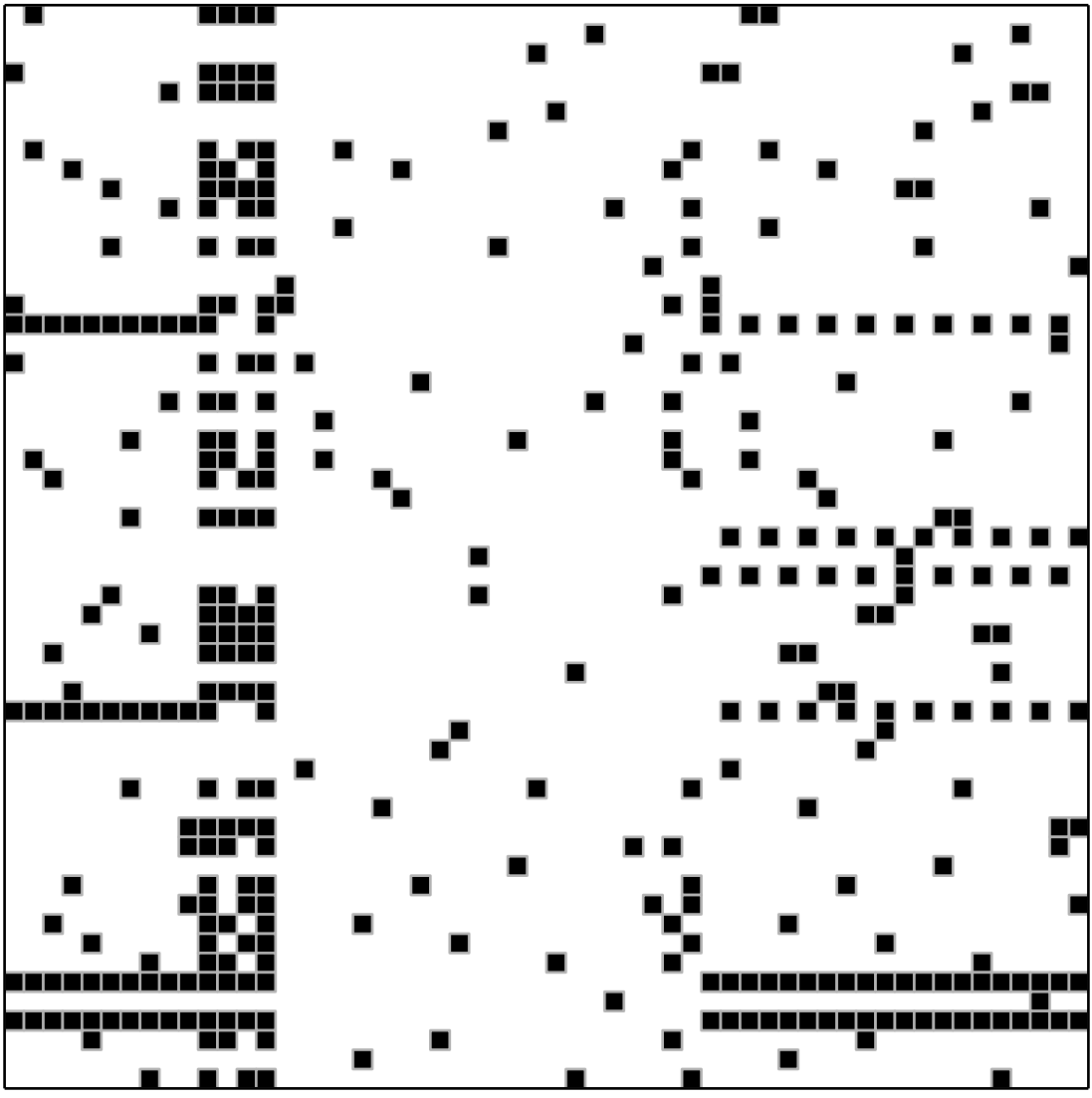

lib2_orthrege-04, cost: 14, diff: 14, explored: 19827, time: 10.00s, gap: 10

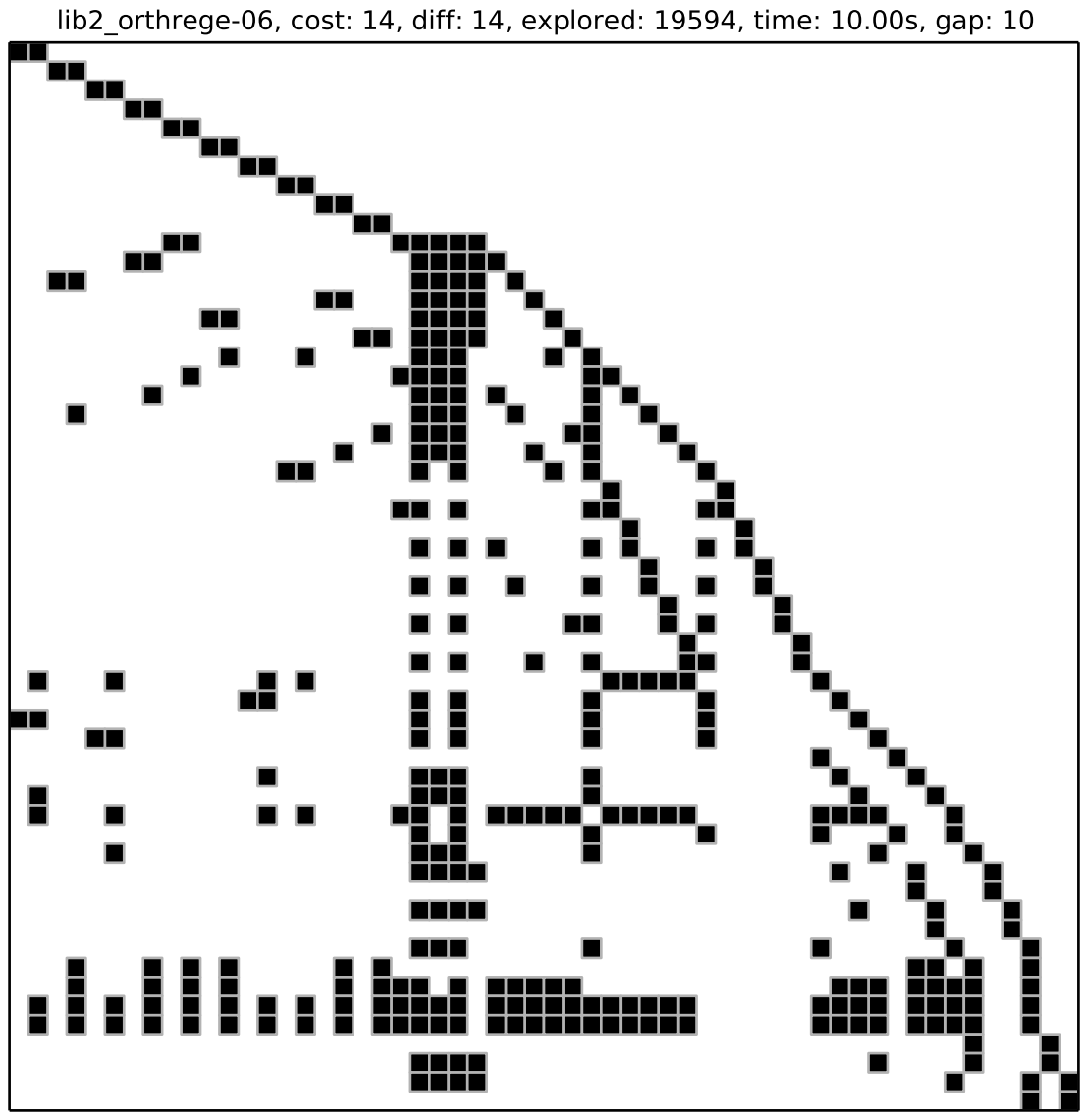
lib2_orthrege-05 56x56 (382) con: 20, var: 36



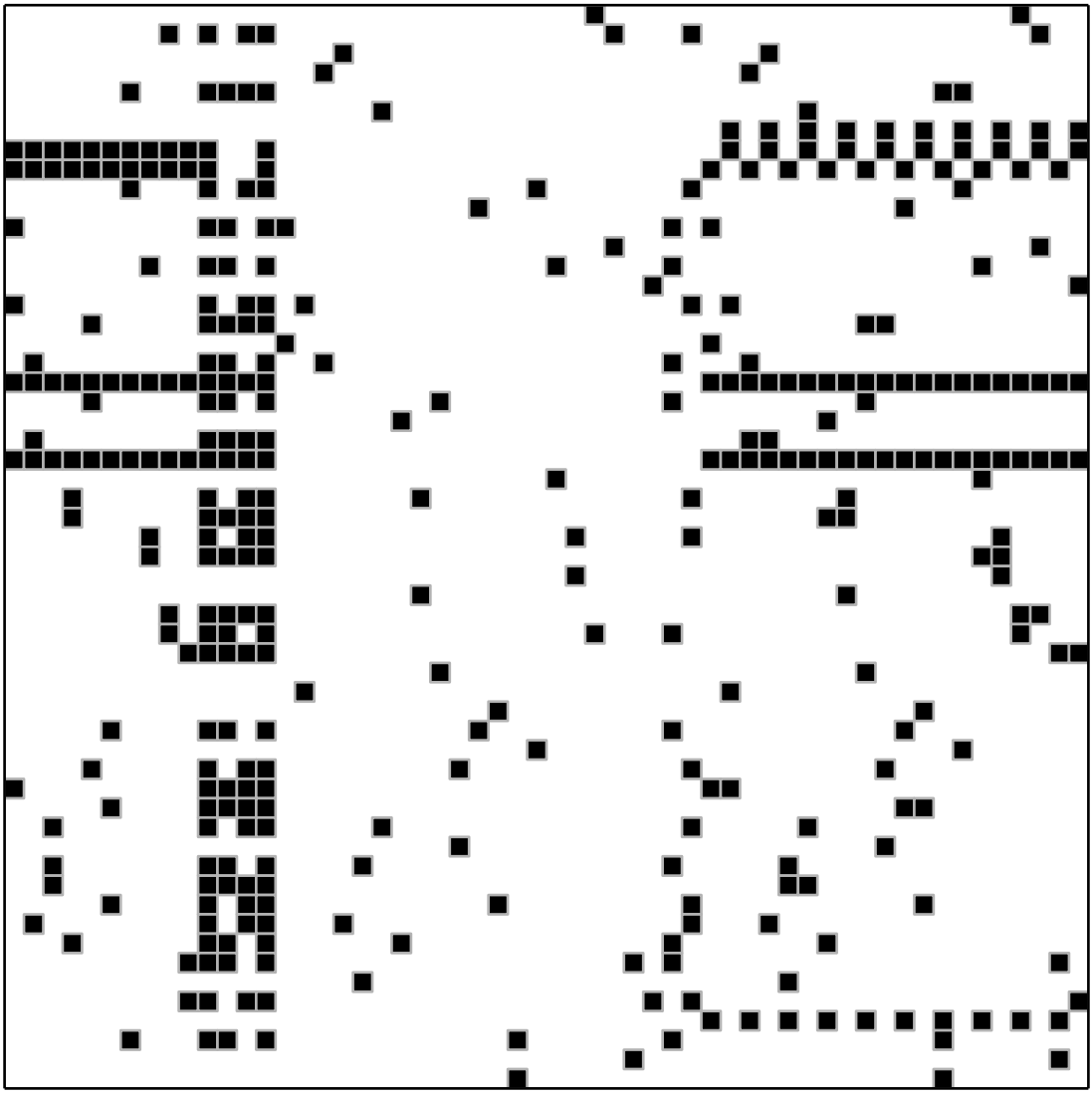

lib2_orthrege-05, cost: 14, diff: 14, explored: 19678, time: 10.00s, gap: 10

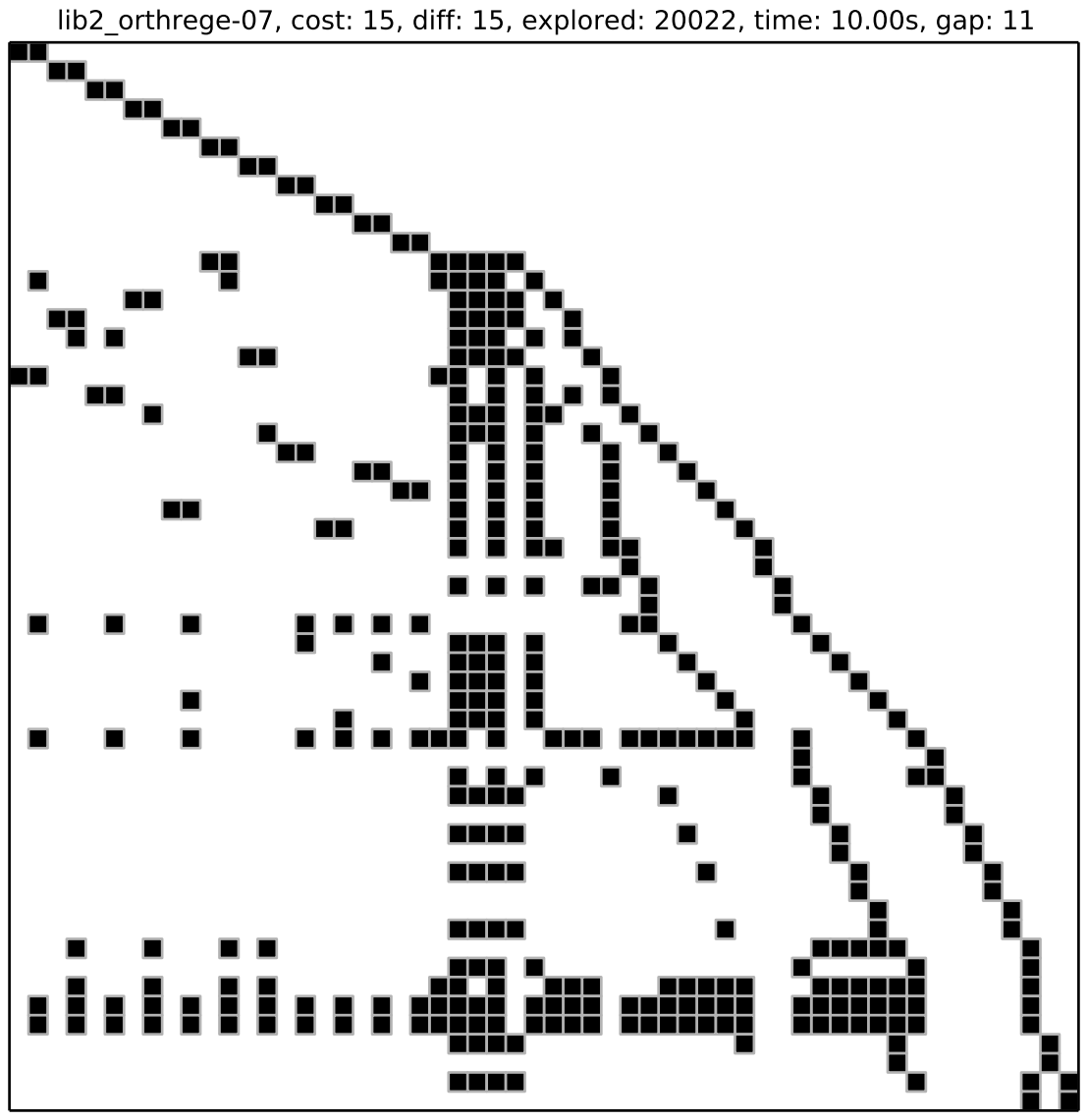
lib2_orthrege-06 56x56 (382) con: 20, var: 36



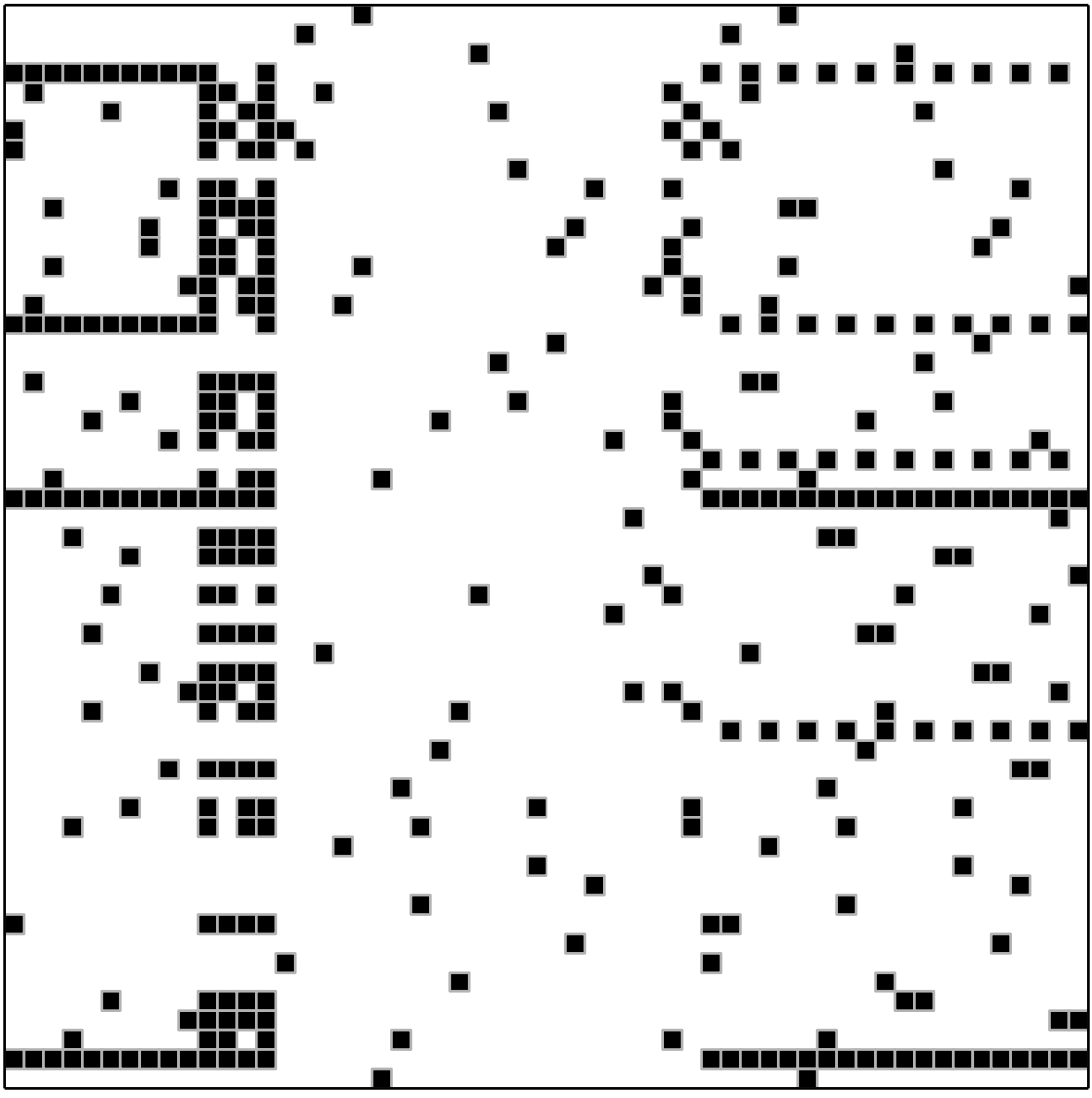

lib2_orthrege-06, cost: 14, diff: 14, explored: 19594, time: 10.00s, gap: 10

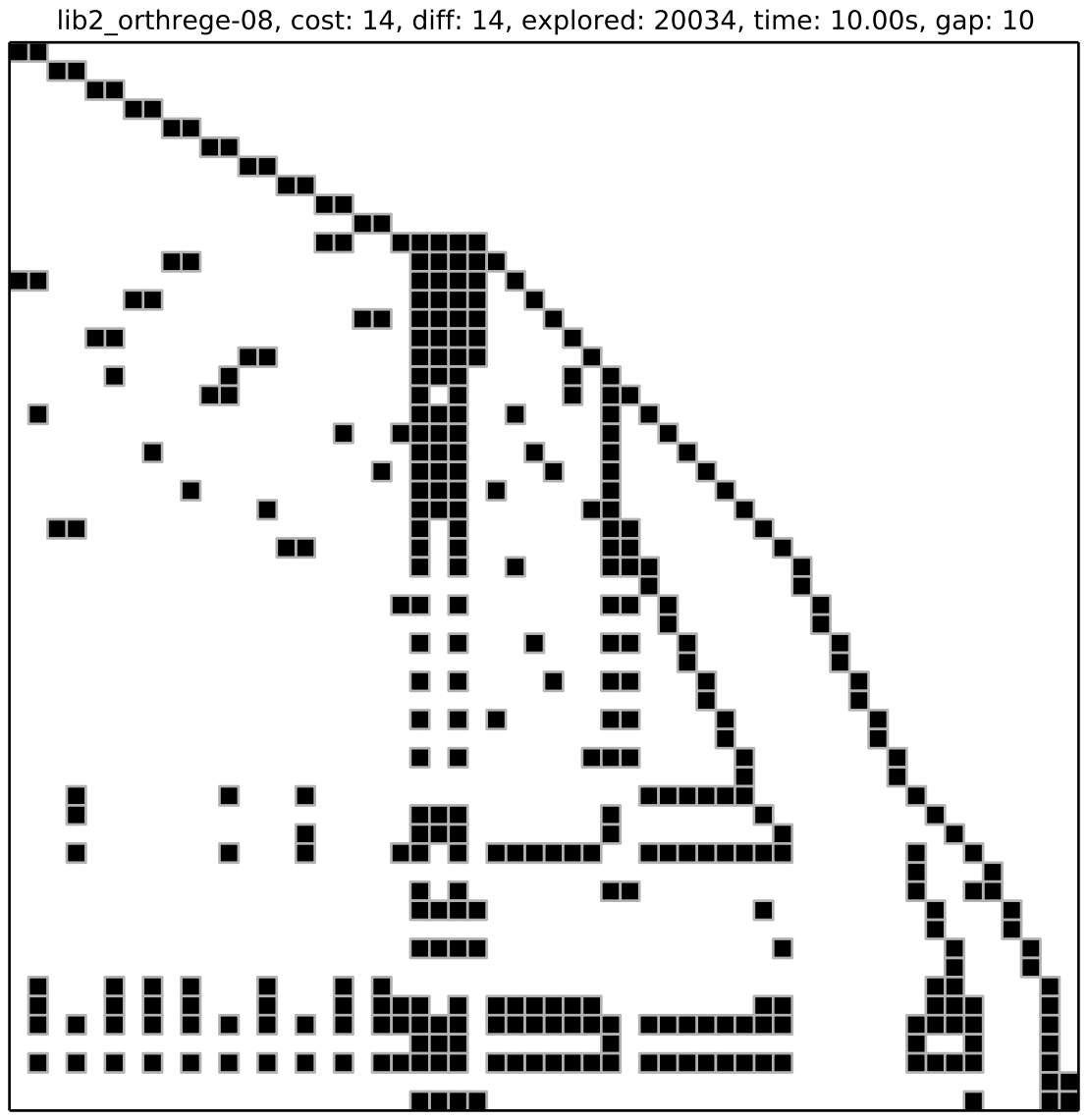
lib2_orthrege-07 56x56 (382) con: 20, var: 36



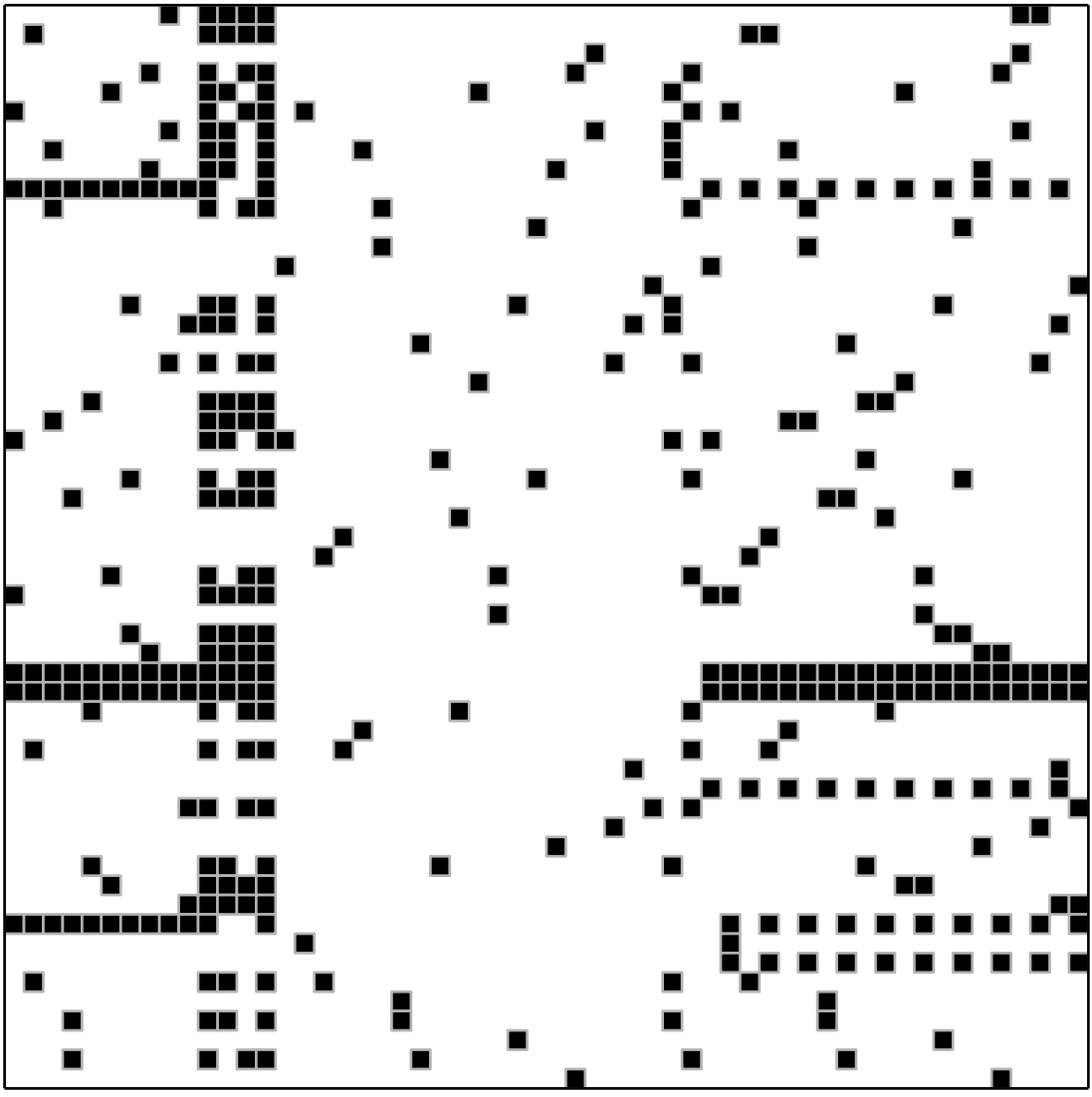

lib2_orthrege-07, cost: 15, diff: 15, explored: 20022, time: 10.00s, gap: 11

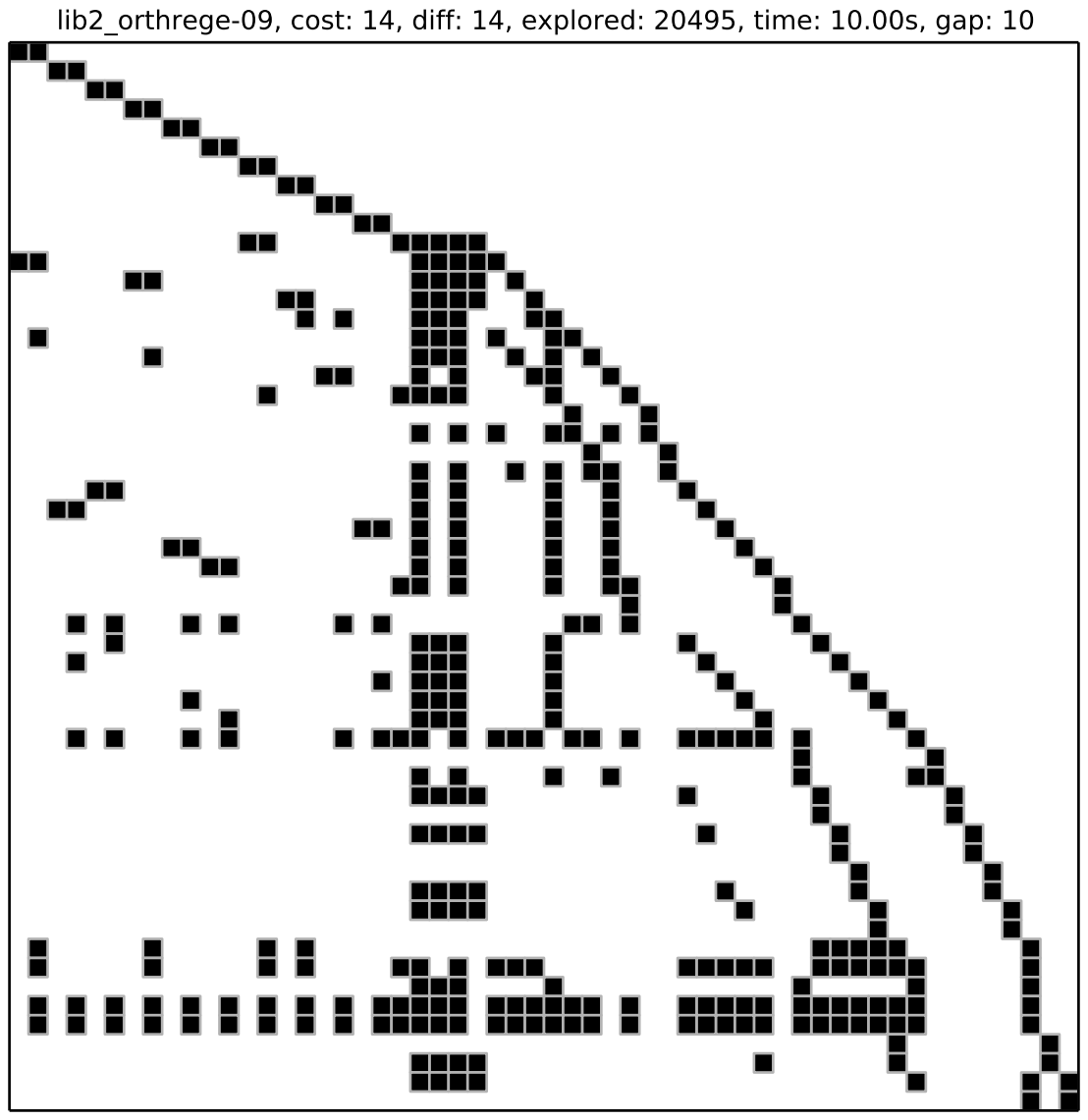
lib2_orthrege-08 56x56 (382) con: 20, var: 36

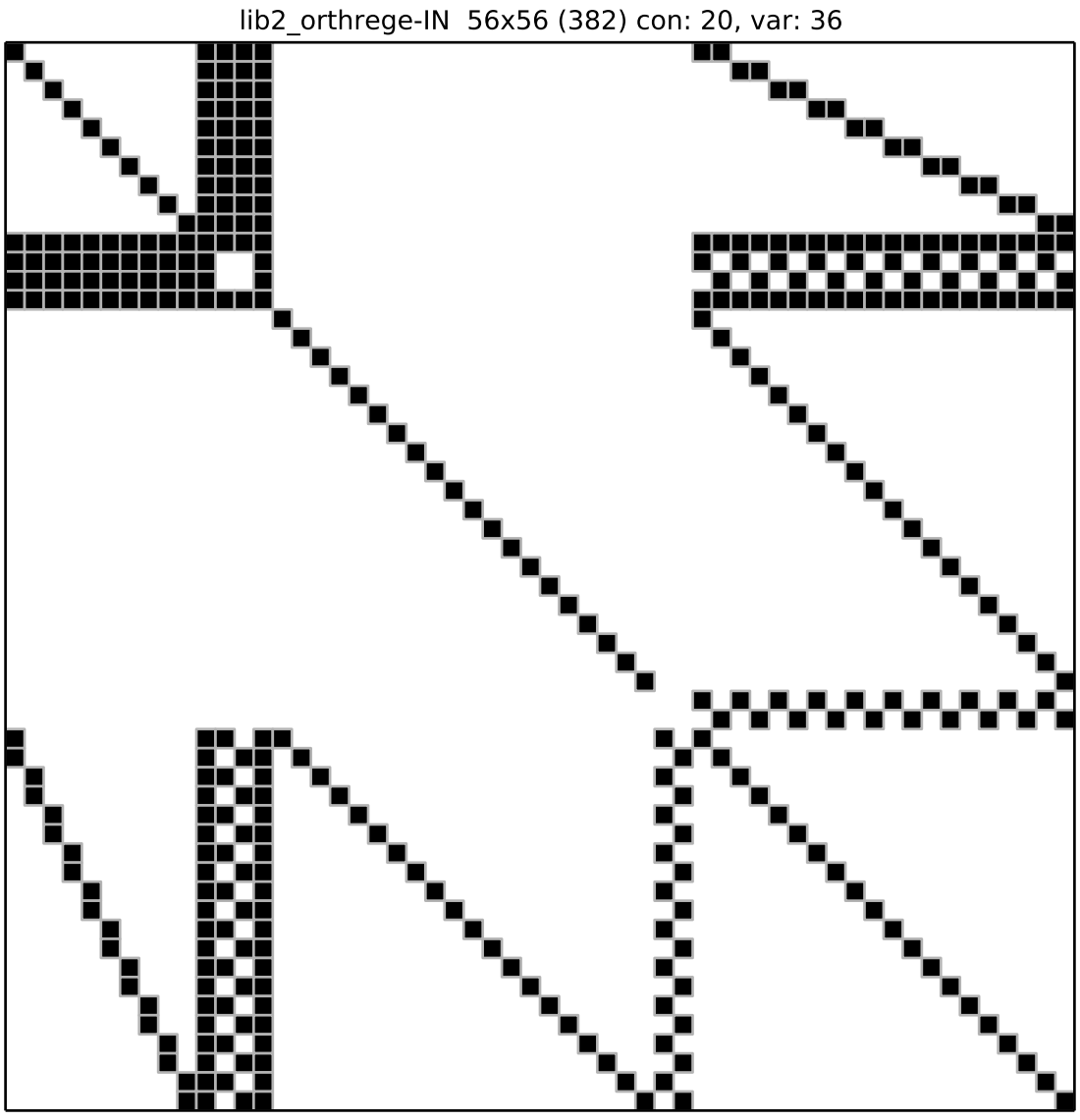


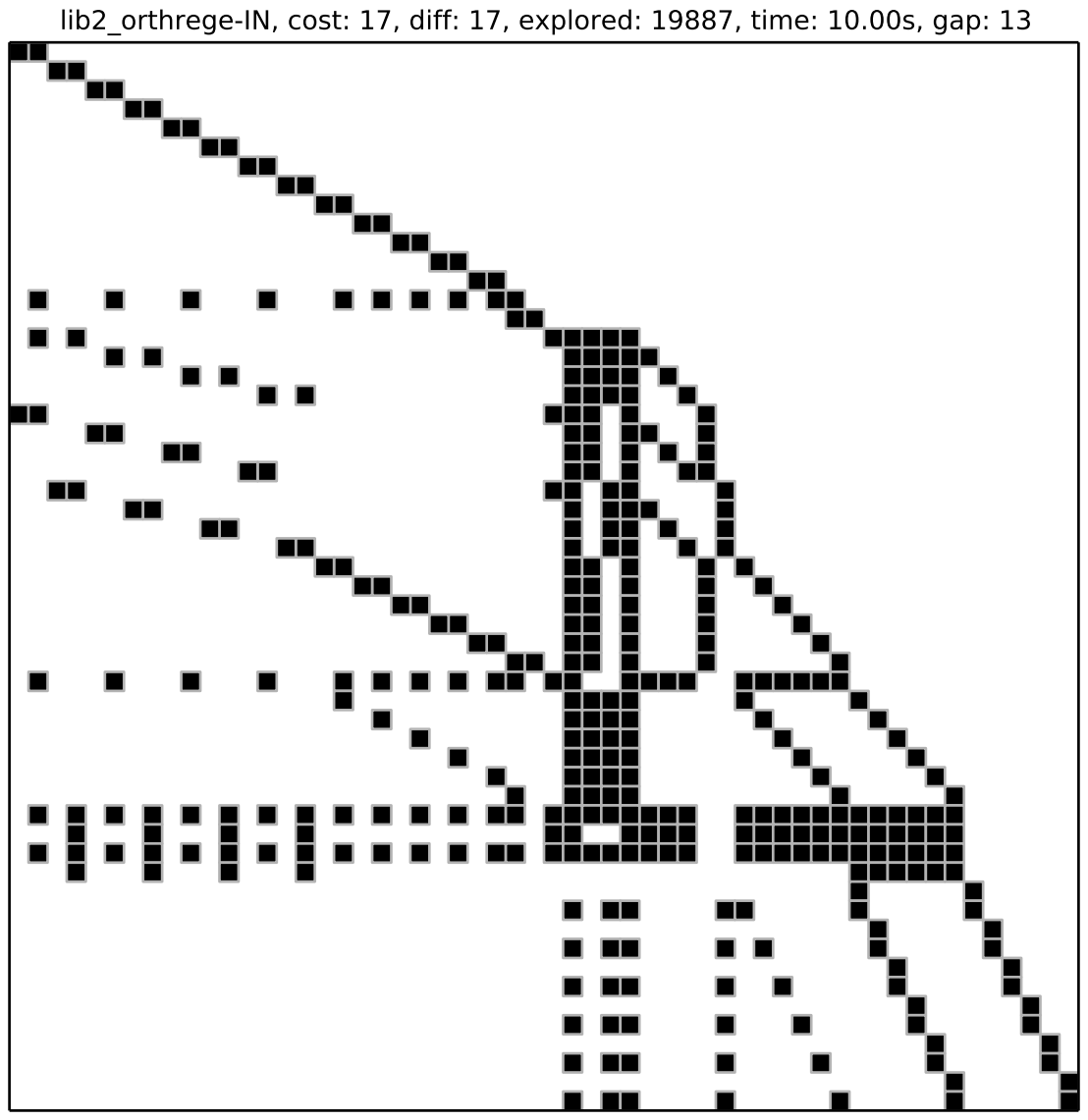

lib2_orthrege-08, cost: 14, diff: 14, explored: 20034, time: 10.00s, gap: 10

lib2_orthrege-09 56x56 (382) con: 20, var: 36

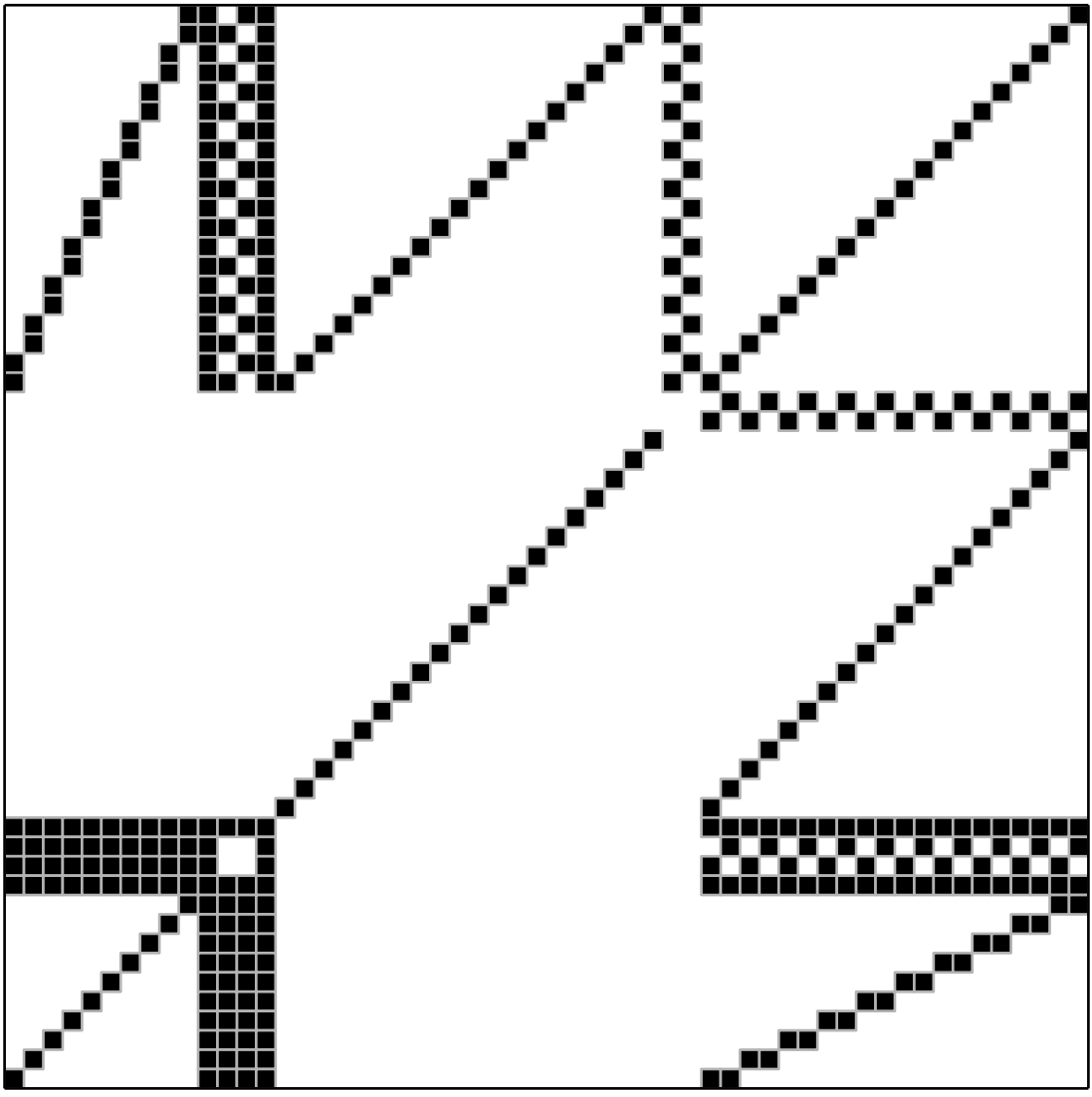


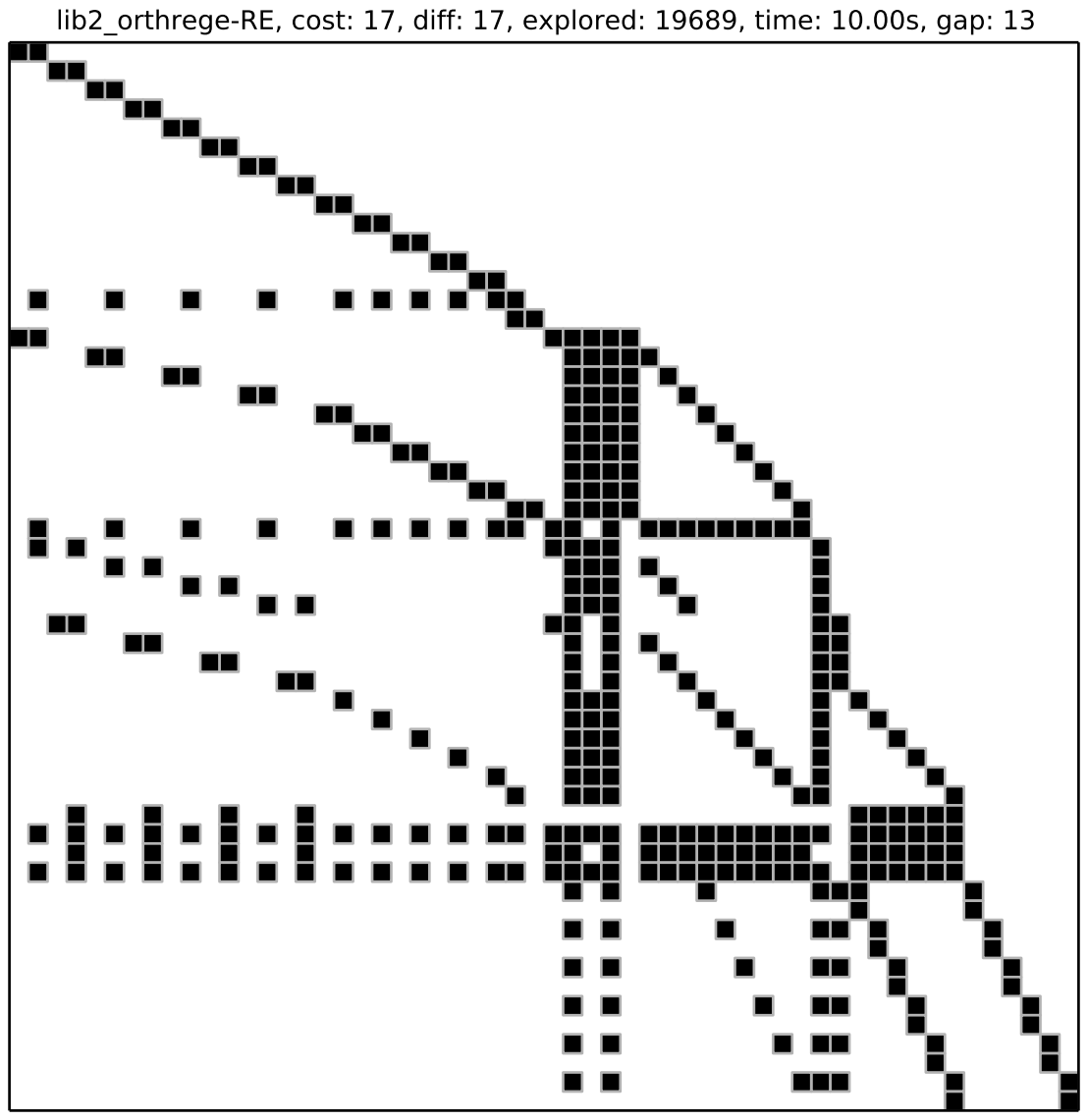

lib2_orthrege-09, cost: 14, diff: 14, explored: 20495, time: 10.00s, gap: 10


lib2_orthrege-IN 56x56 (382) con: 20, var: 36

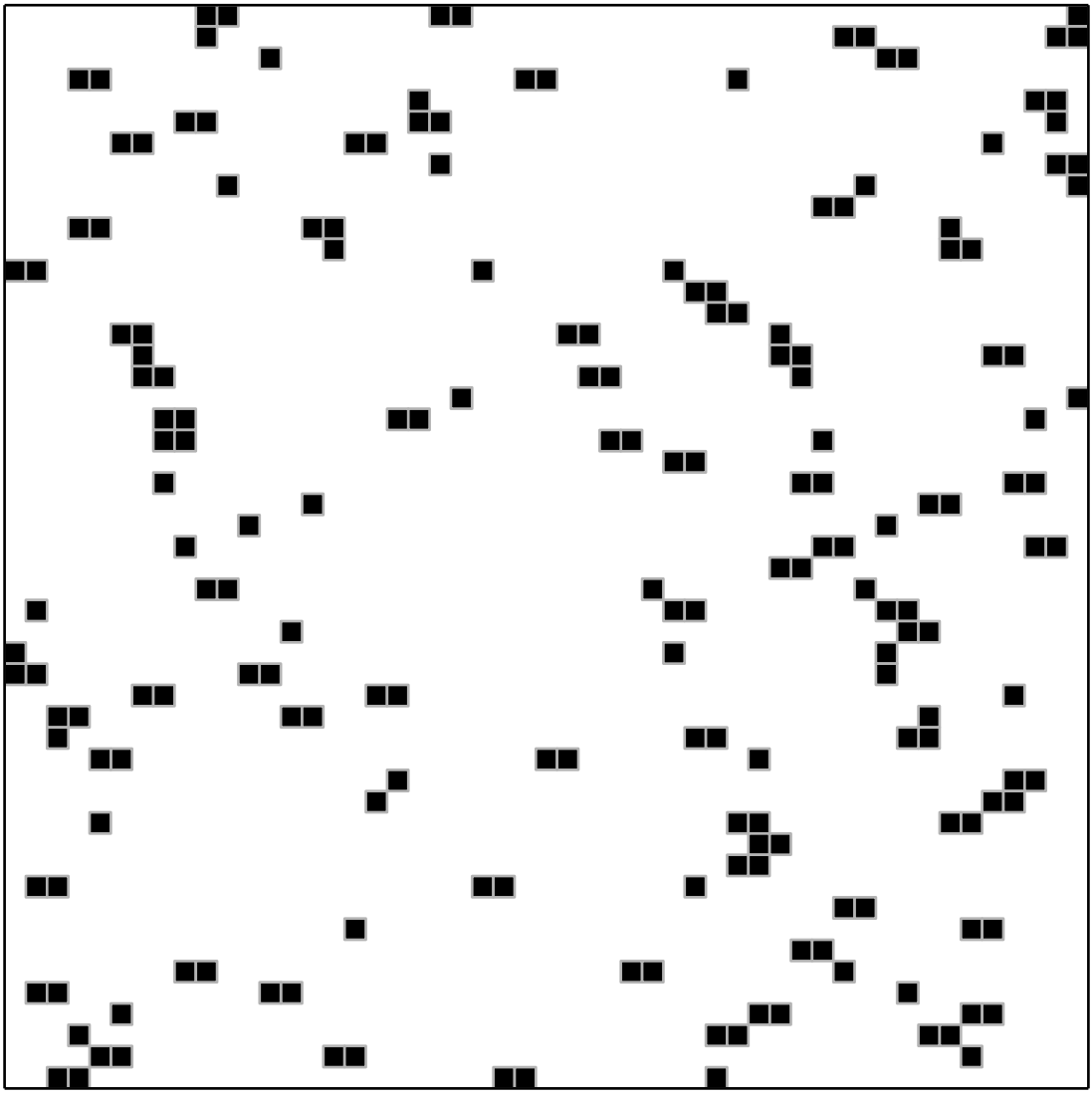

lib2_orthrege-IN, cost: 17, diff: 17, explored: 19887, time: 10.00s, gap: 13

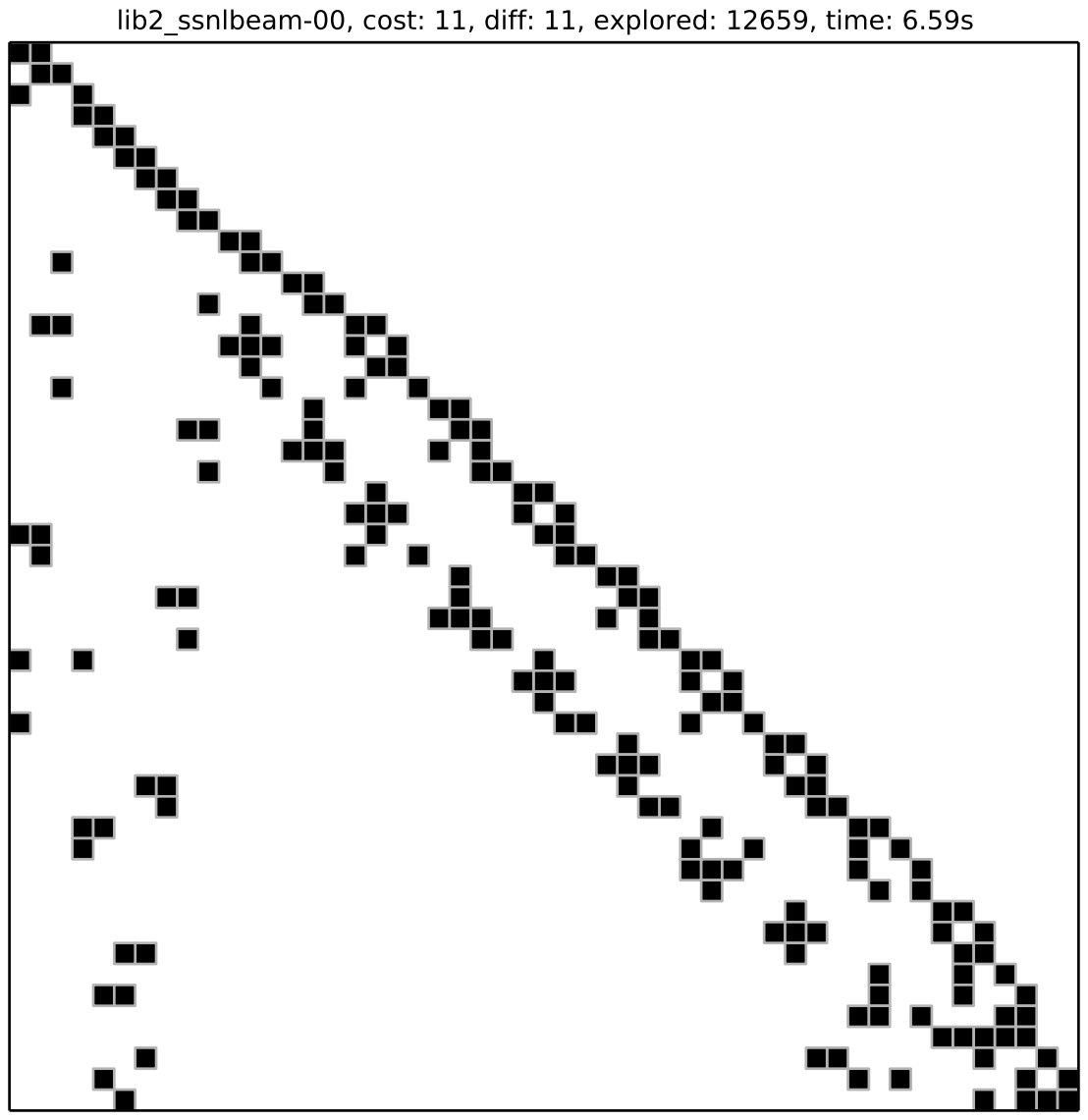
lib2_orthrege-RE 56x56 (382) con: 20, var: 36




lib2_orthrege-RE, cost: 17, diff: 17, explored: 19689, time: 10.00s, gap: 13

lib2_ssnlbeam-00 51x51 (198) con: 20, var: 31

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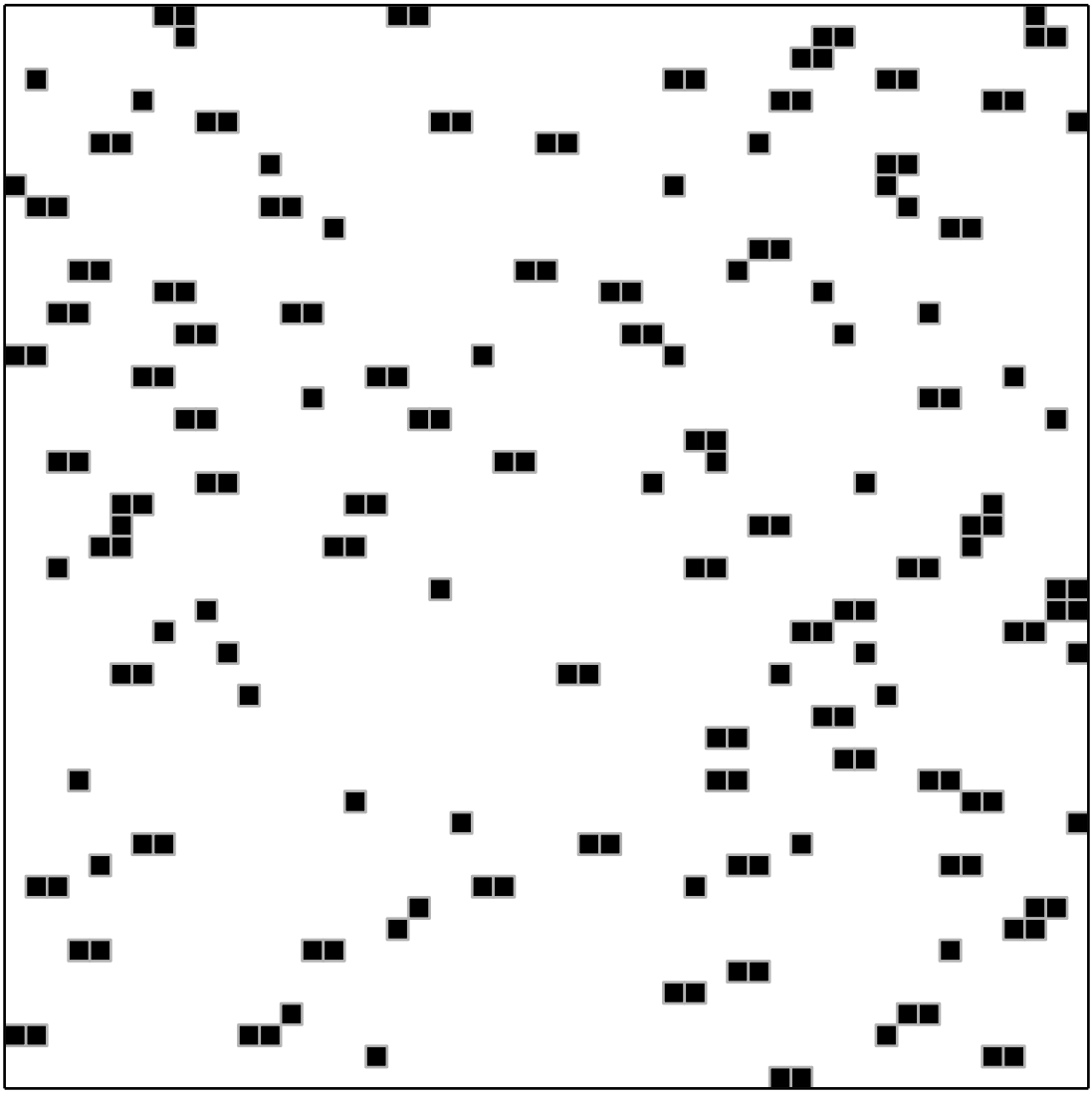
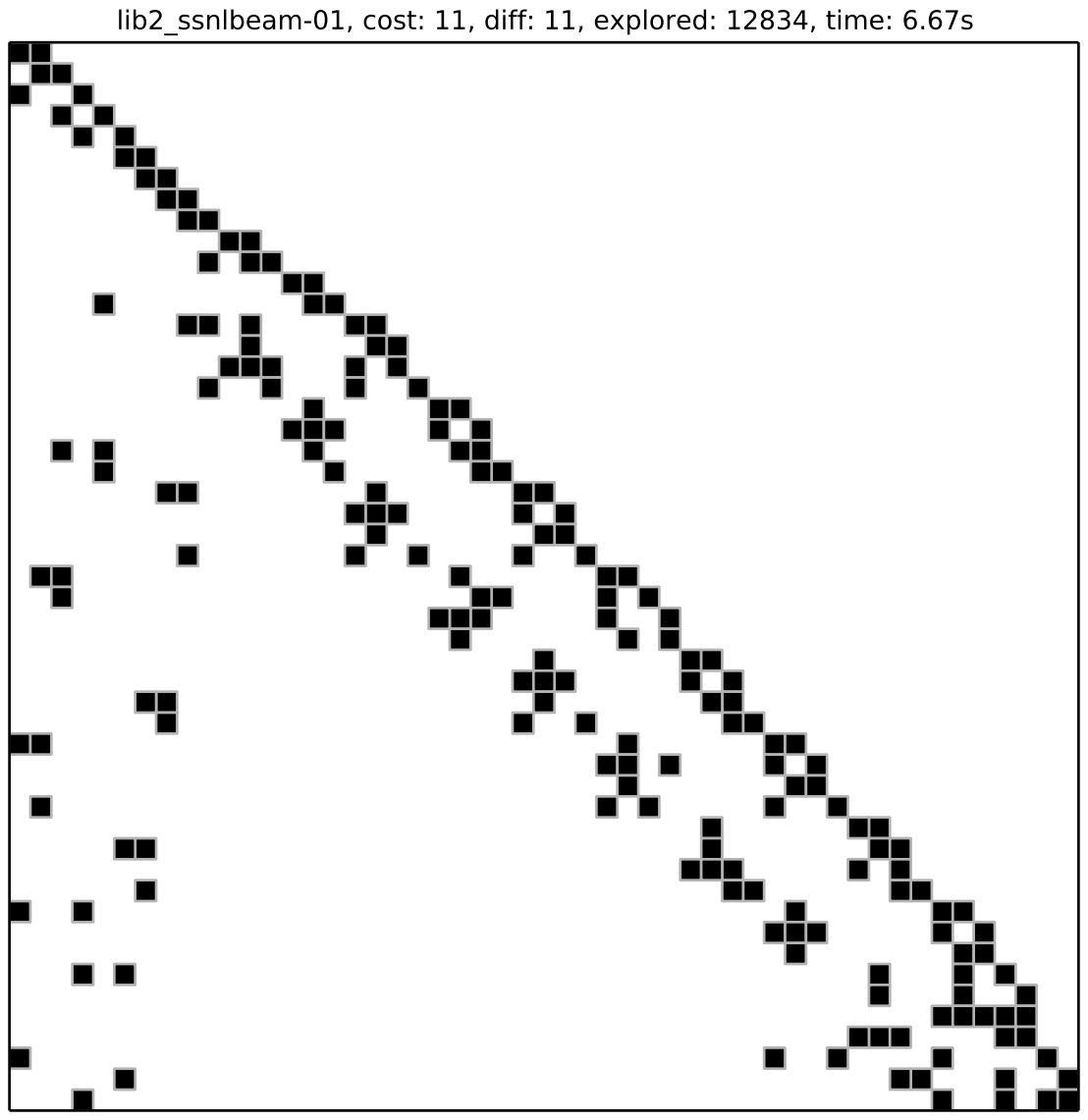
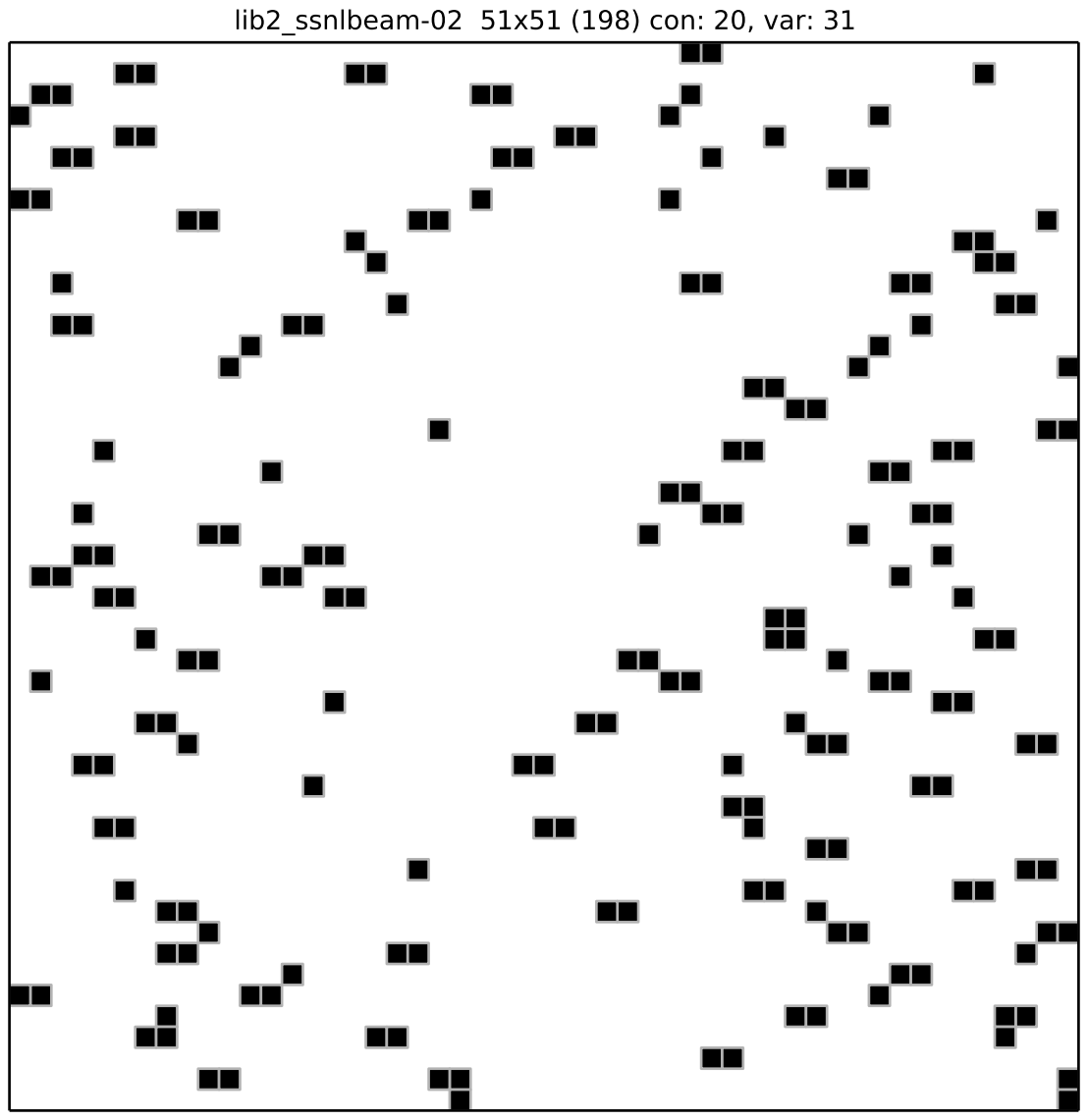
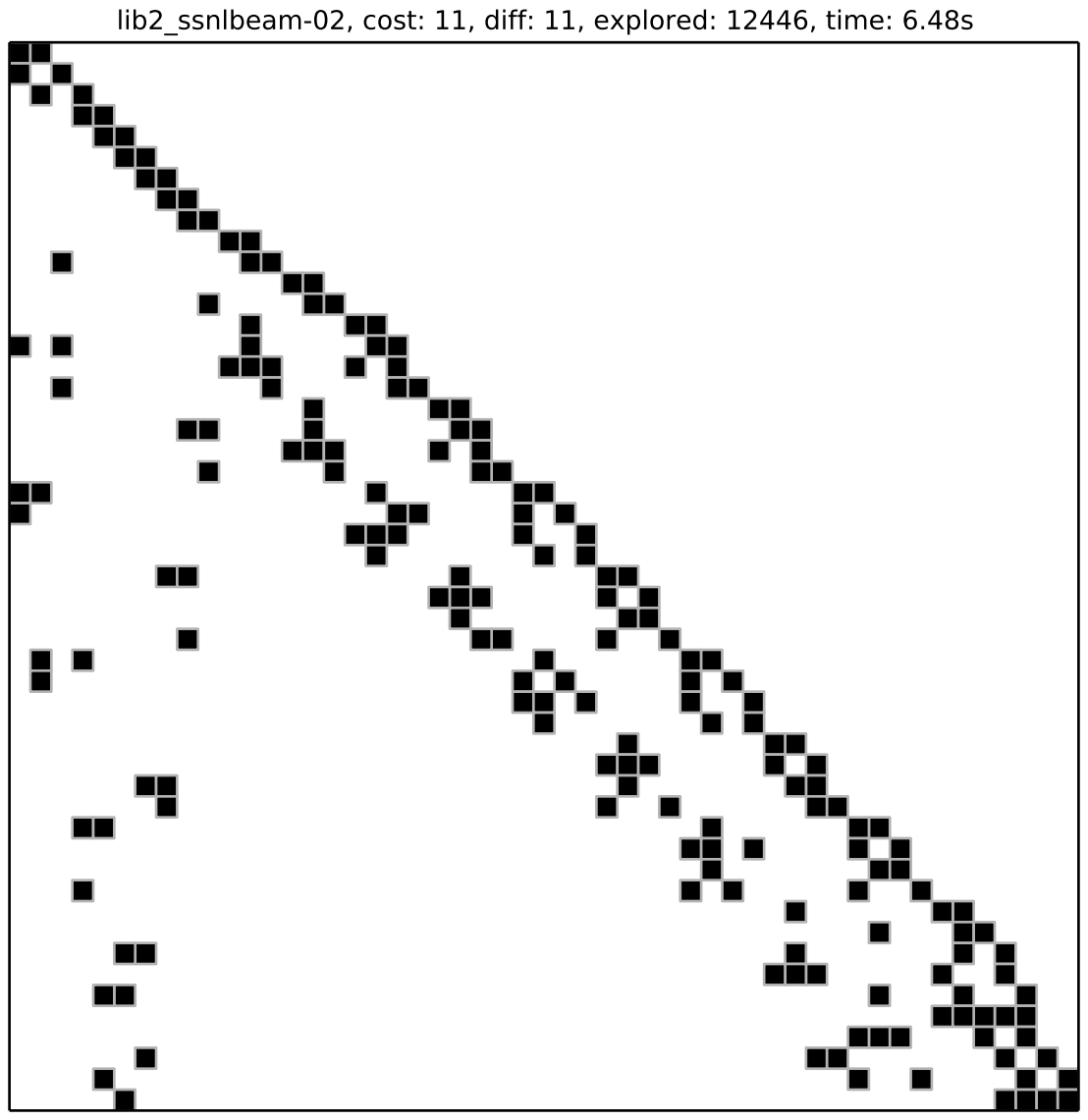
lib2_ssnlbeam-01 51x51 (198) con: 20, var: 31




lib2_ssnlbeam-01, cost: 11, diff: 11, explored: 12834, time: 6.67s


lib2_ssnlbeam-02 51x51 (198) con: 20, var: 31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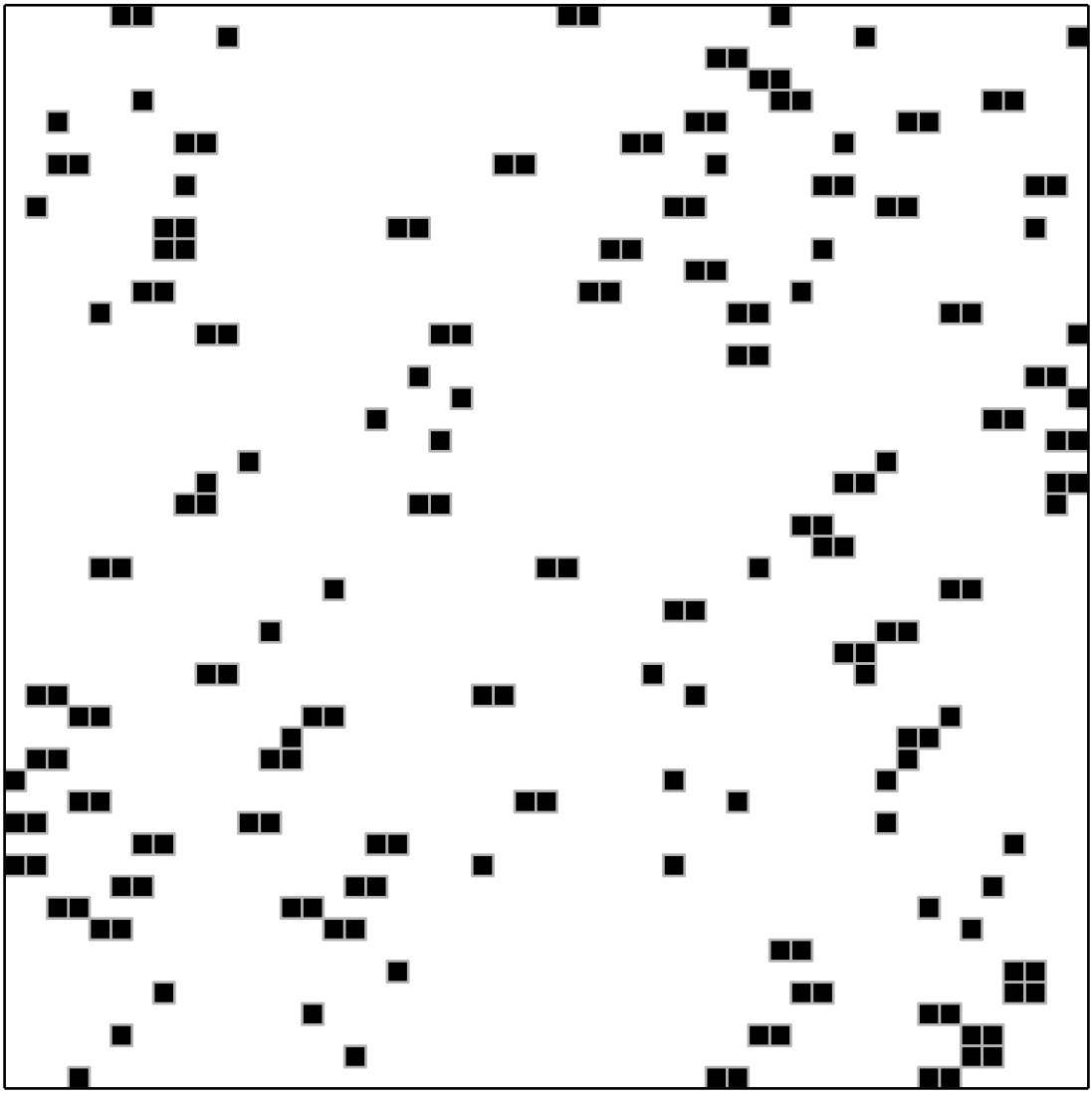
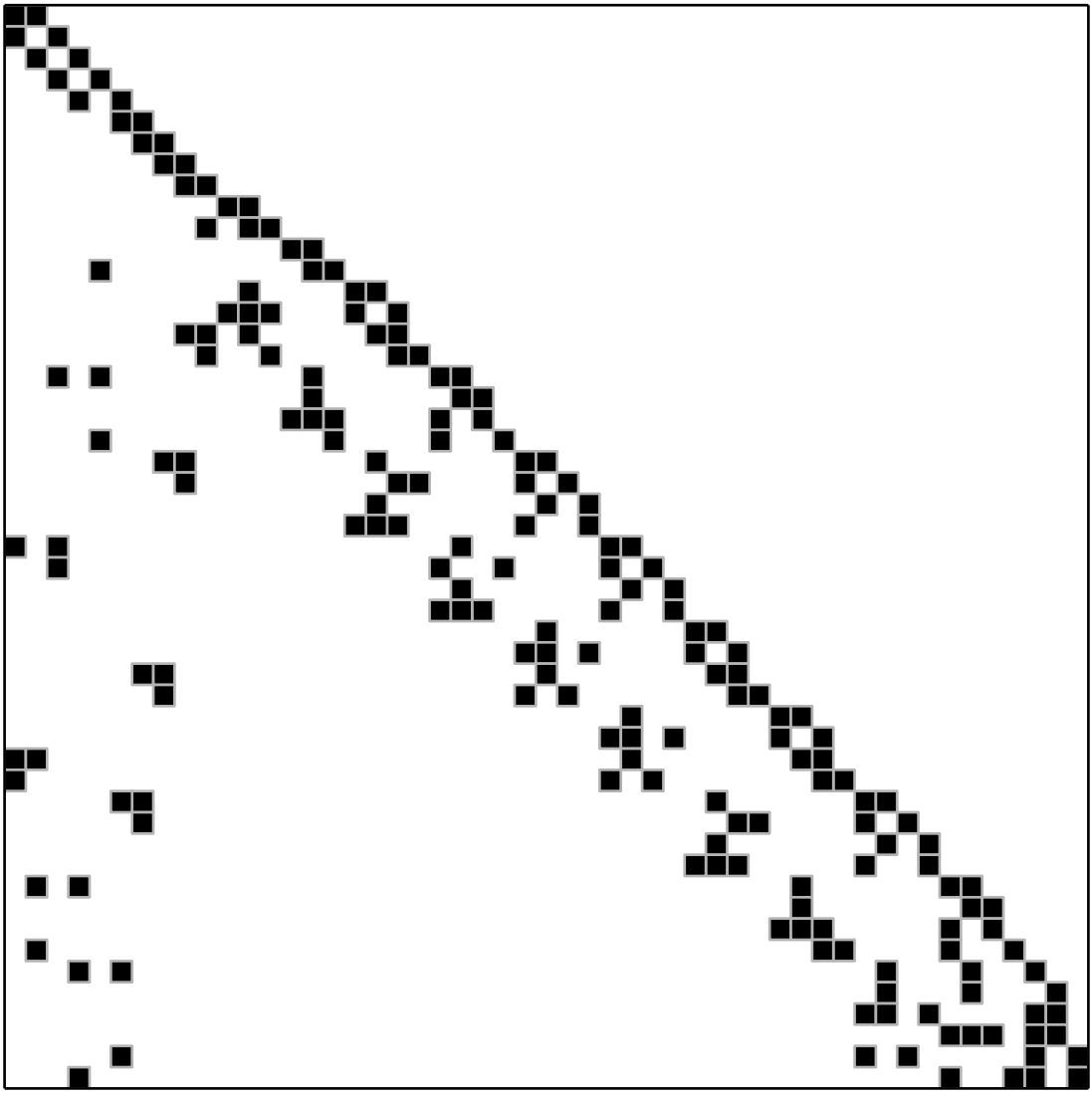
lib2_ssnlbeam-03 51x51 (198) con: 20, var: 31

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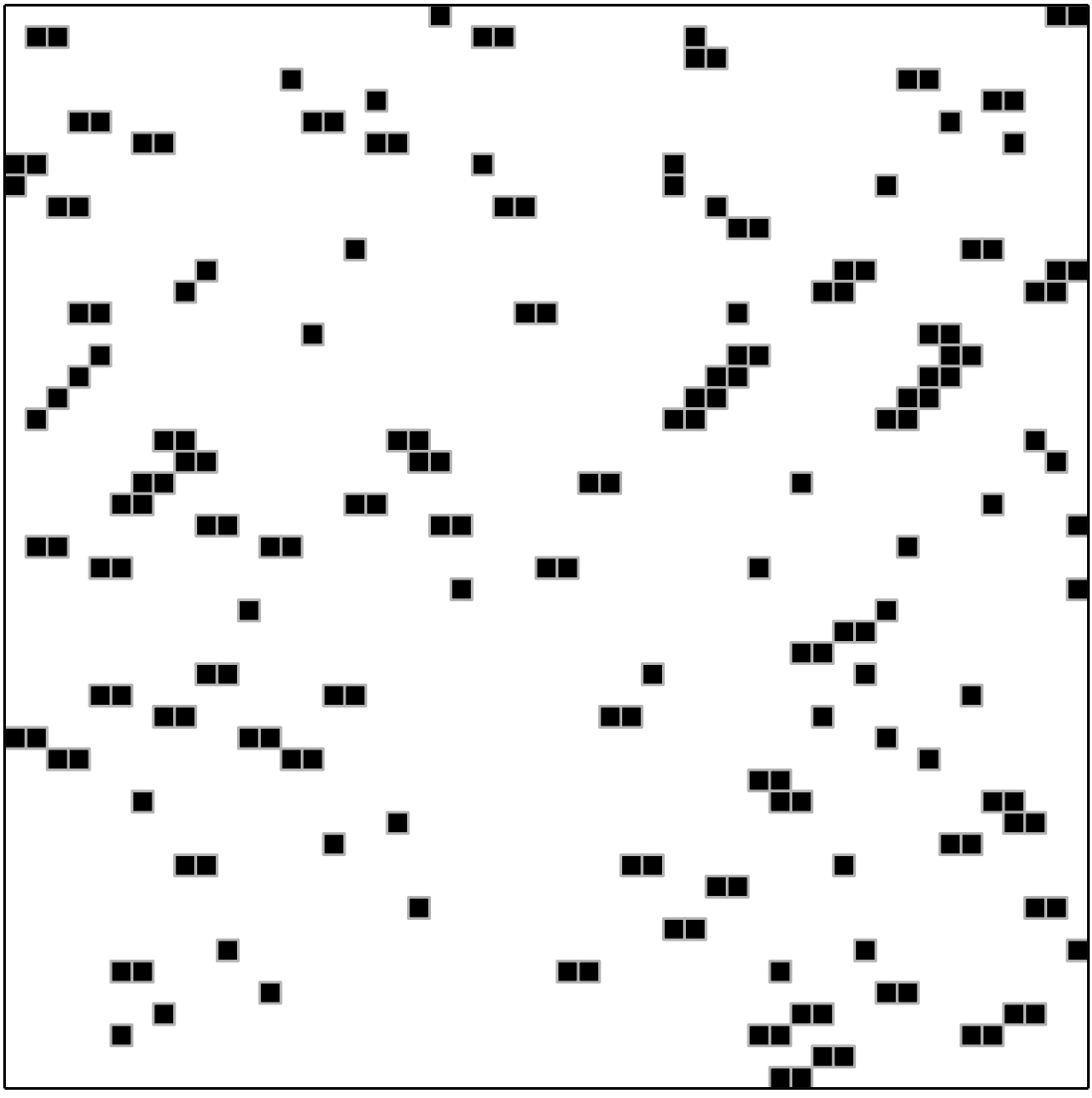
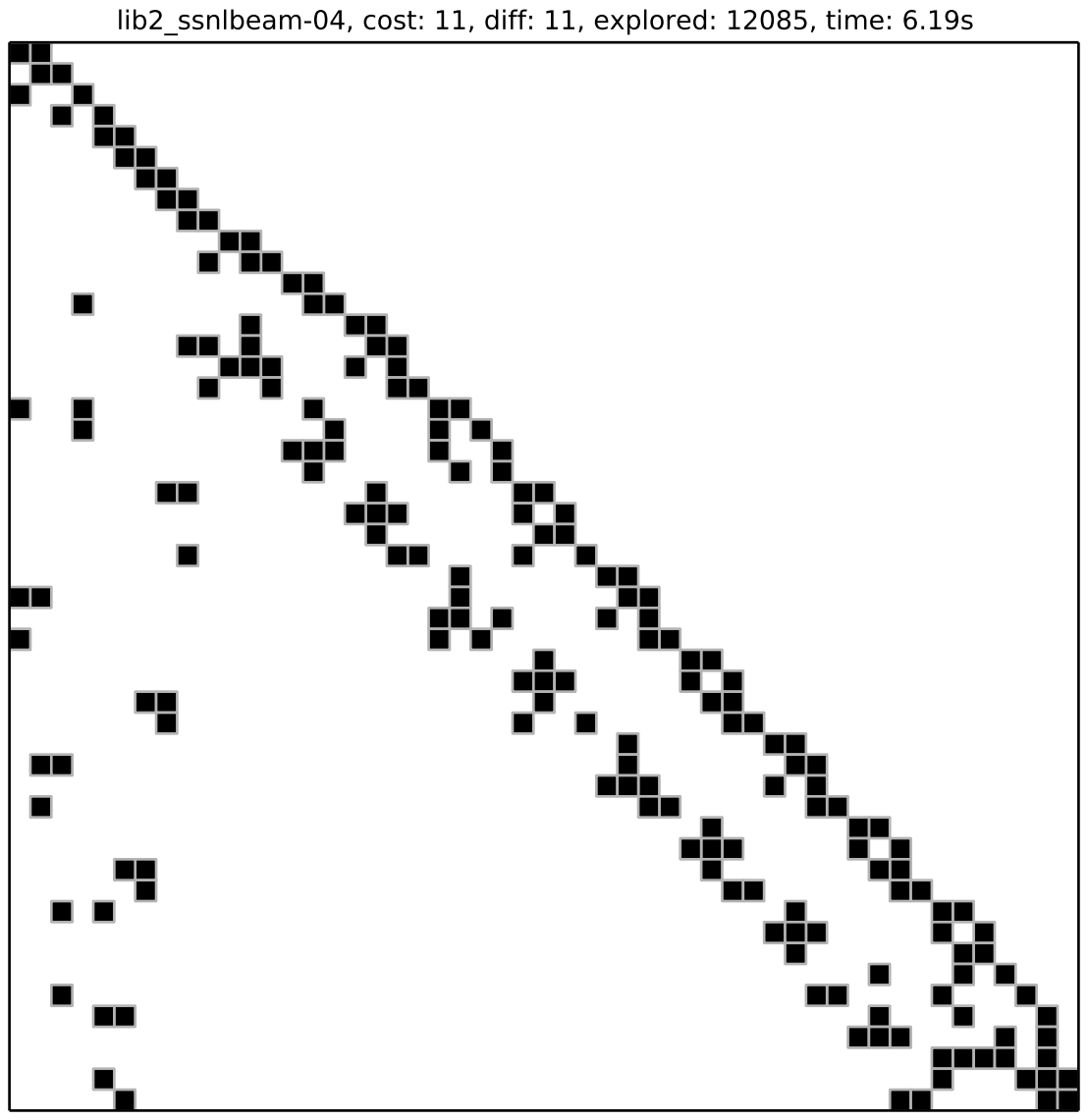
lib2_ssnlbeam-04 51x51 (198) con: 20, var: 31

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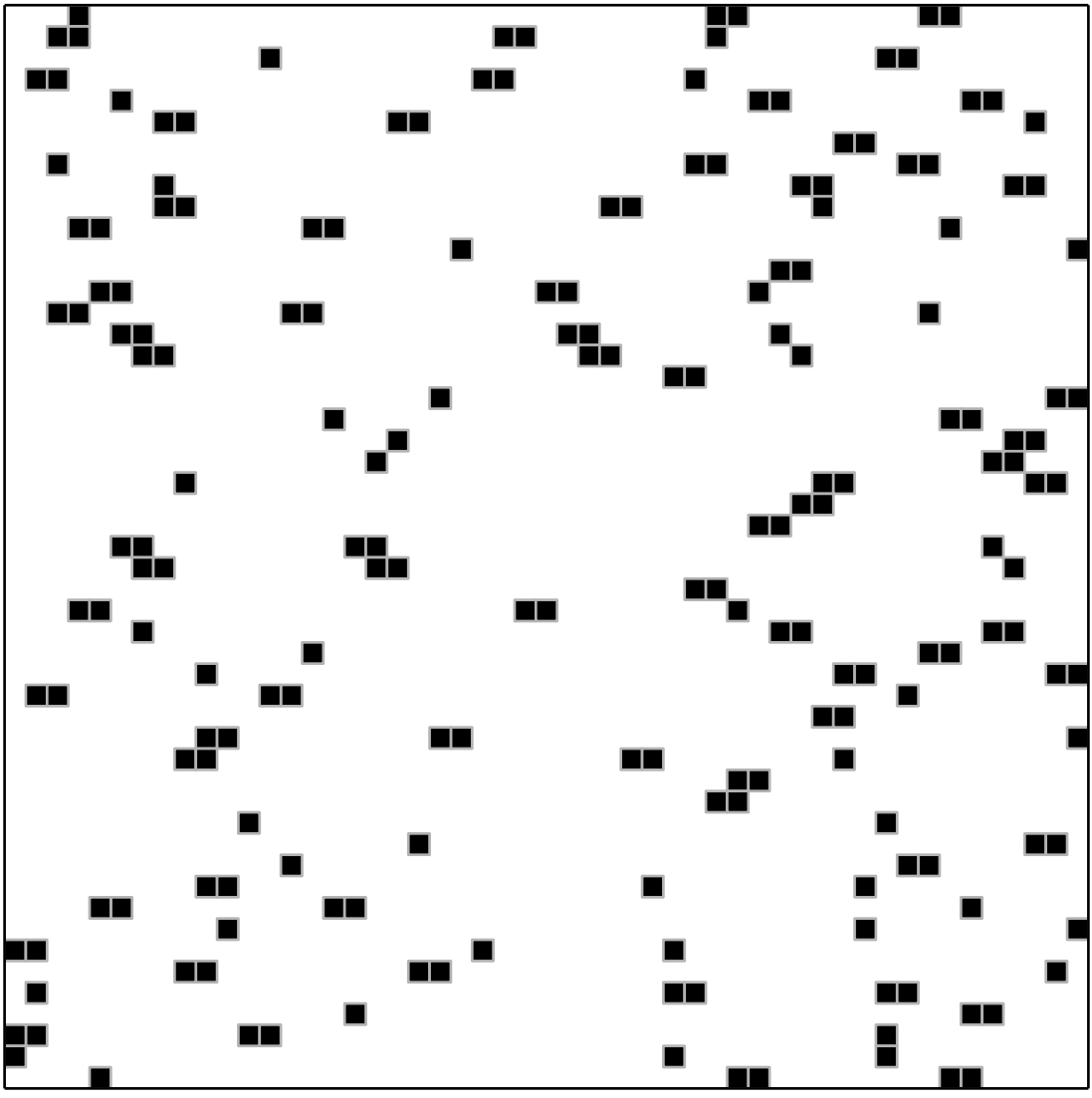
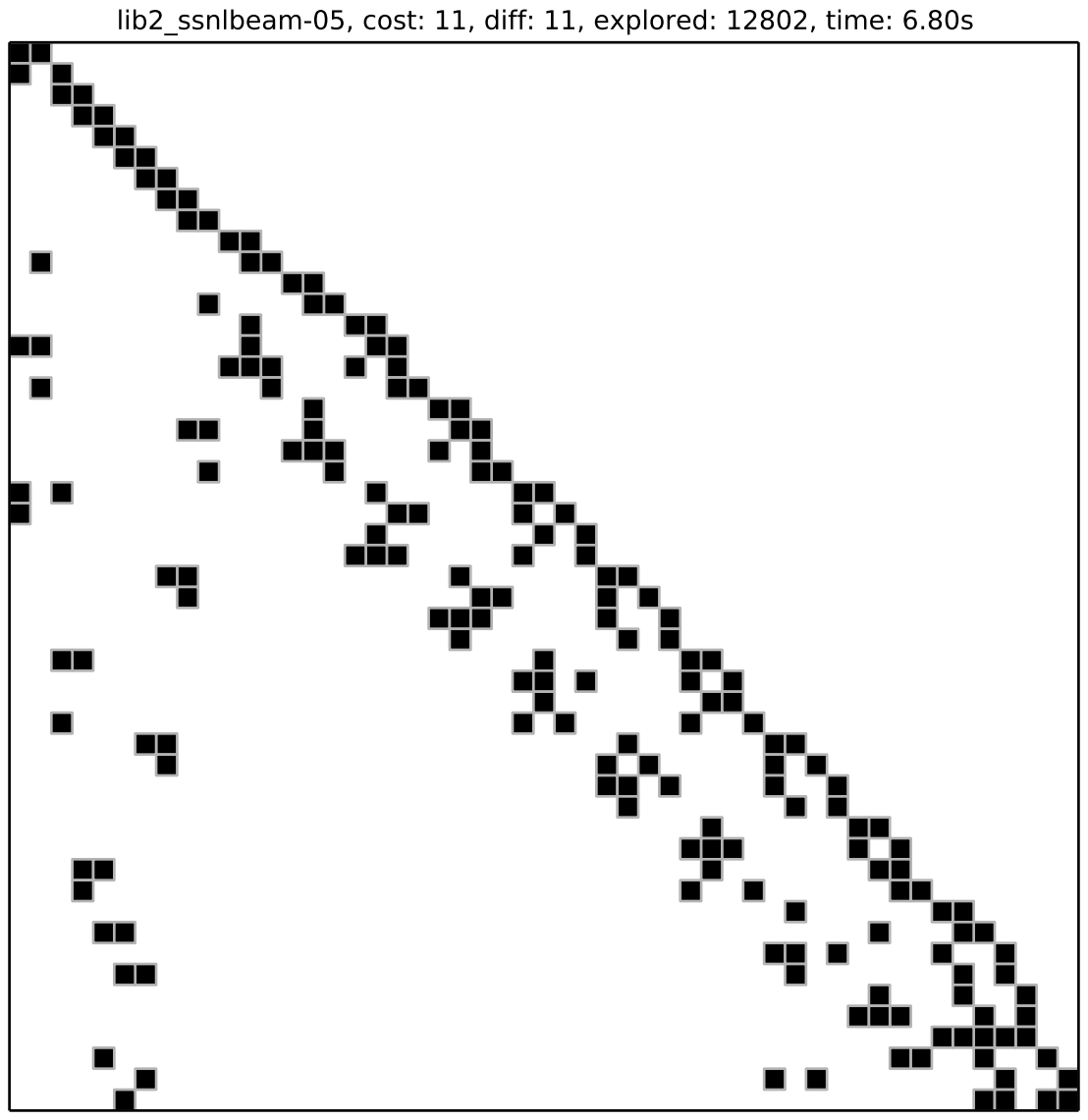
lib2_ssnlbeam-05 51x51 (198) con: 20, var: 31

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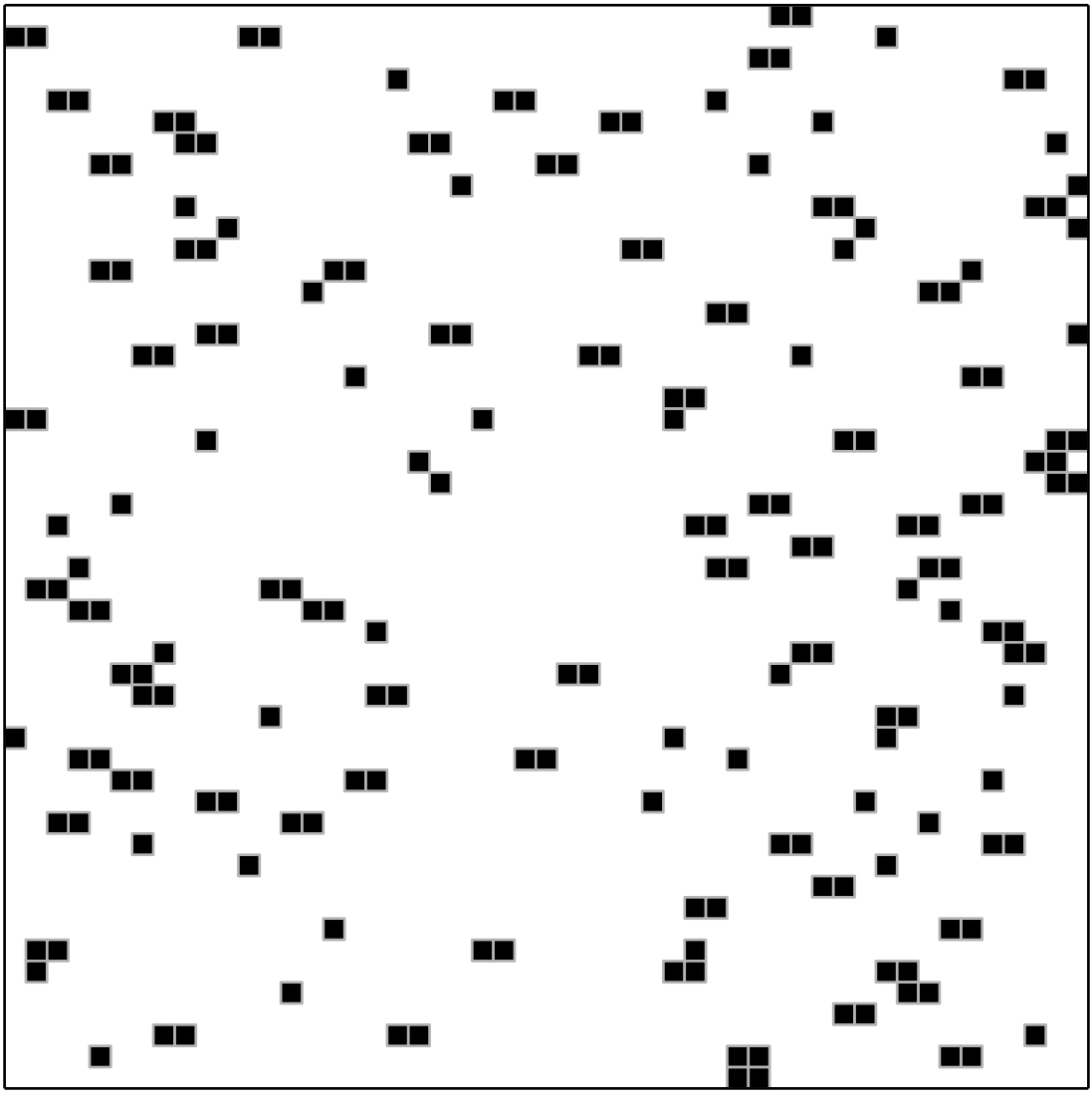
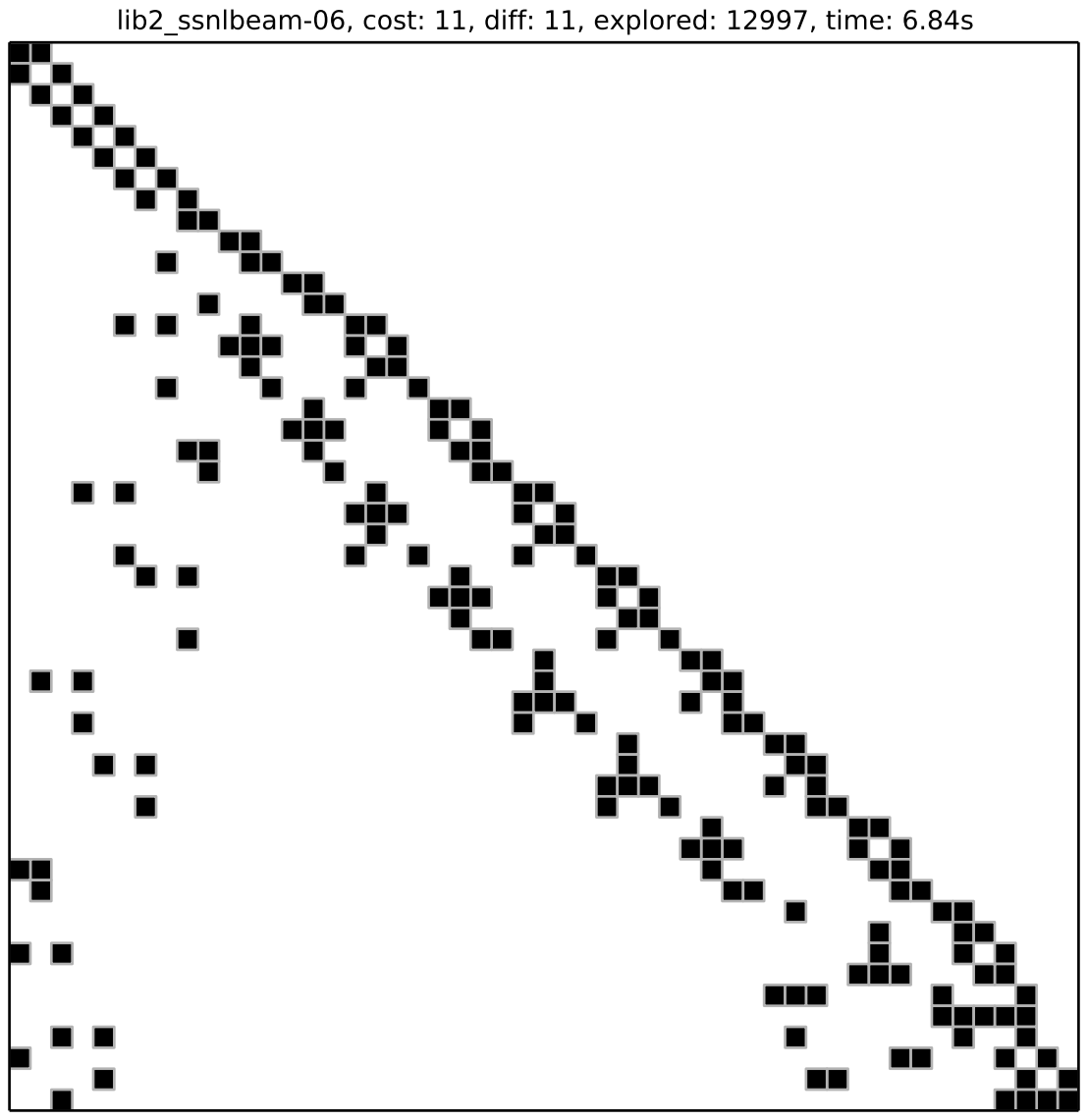
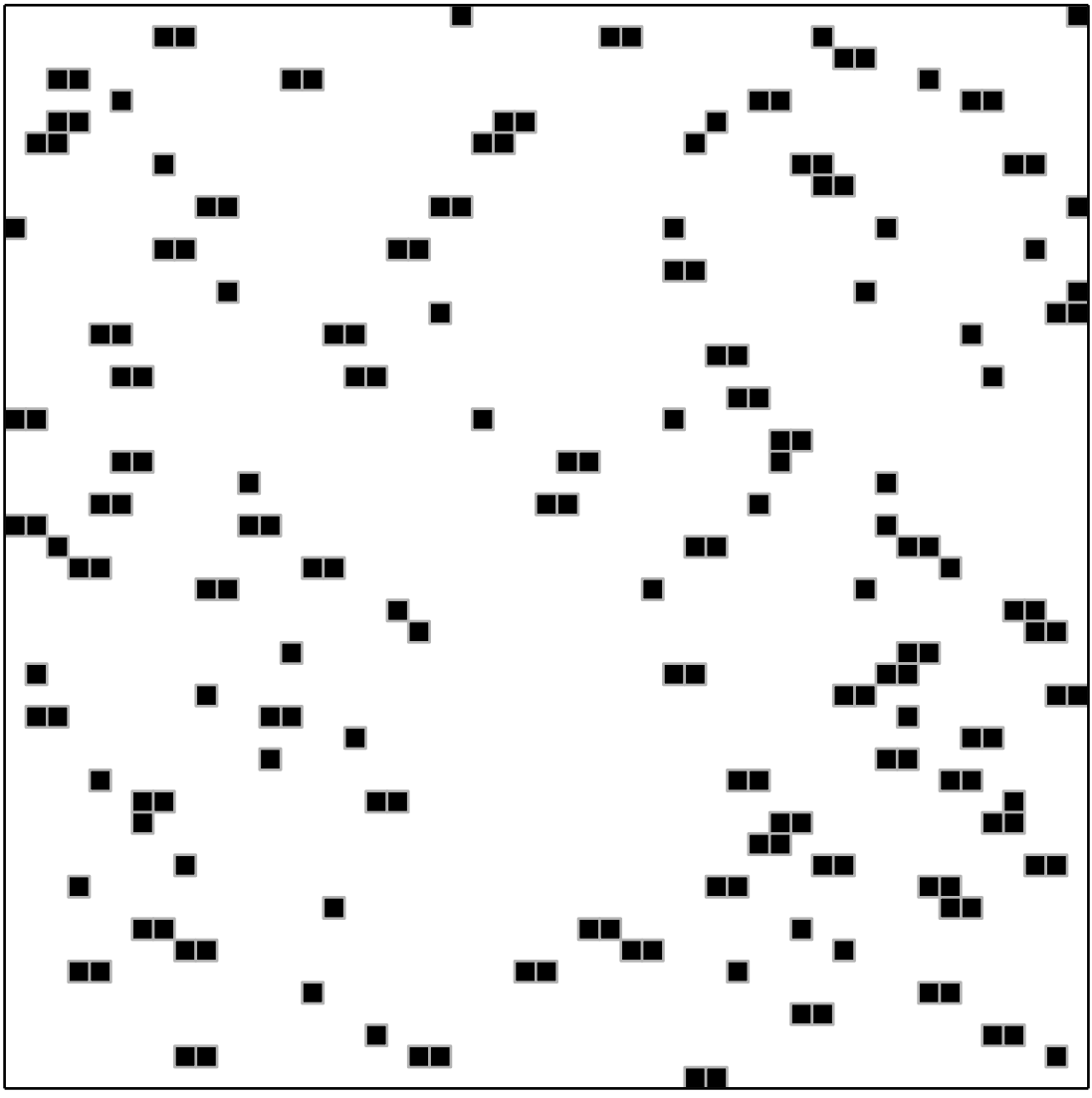
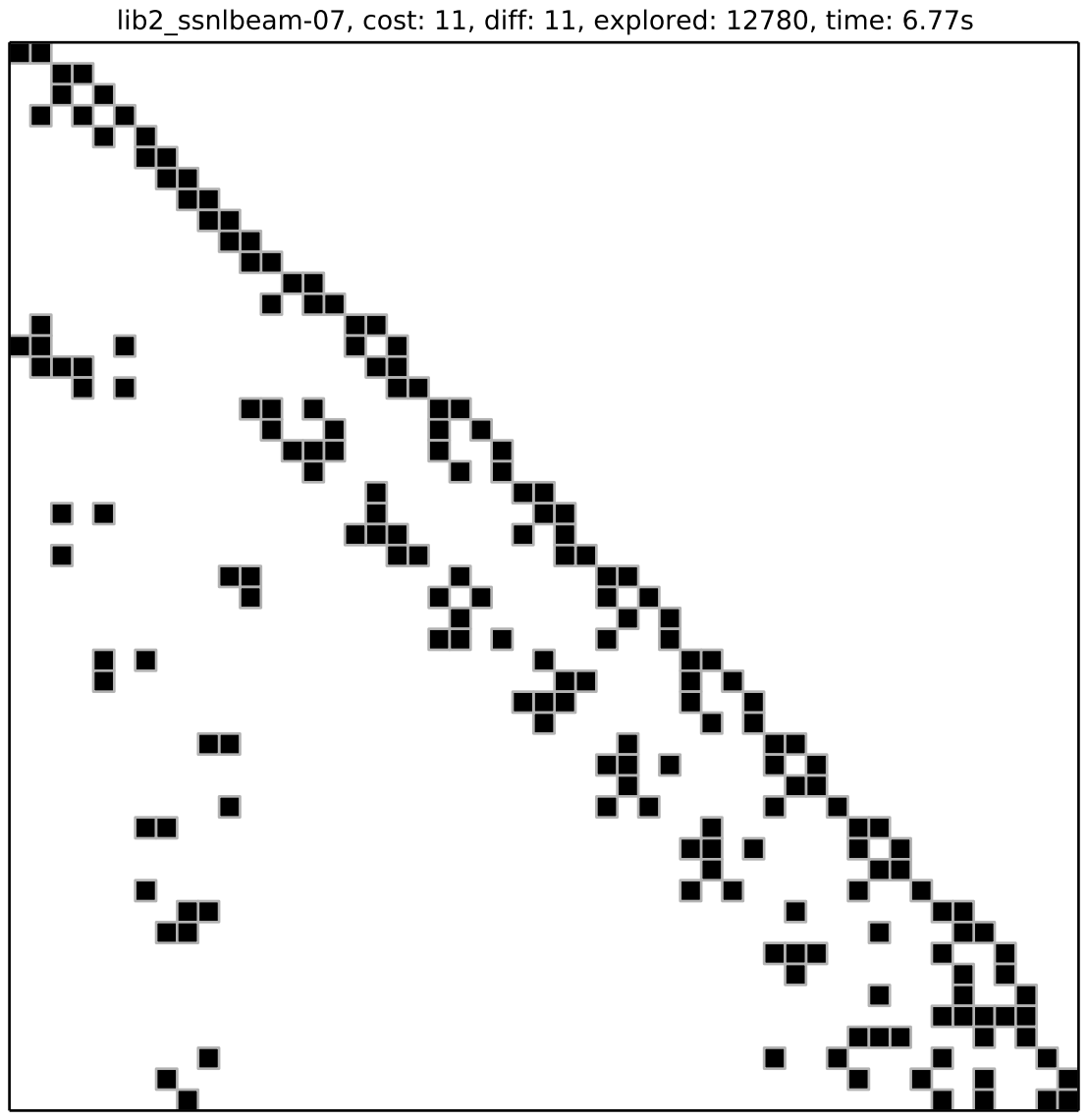
lib2_ssnlbeam-06 51x51 (198) con: 20, var: 31




lib2_ssnlbeam-06, cost: 11, diff: 11, explored: 12997, time: 6.84s

lib2_ssnlbeam-07 51x51 (198) con: 20, var: 31

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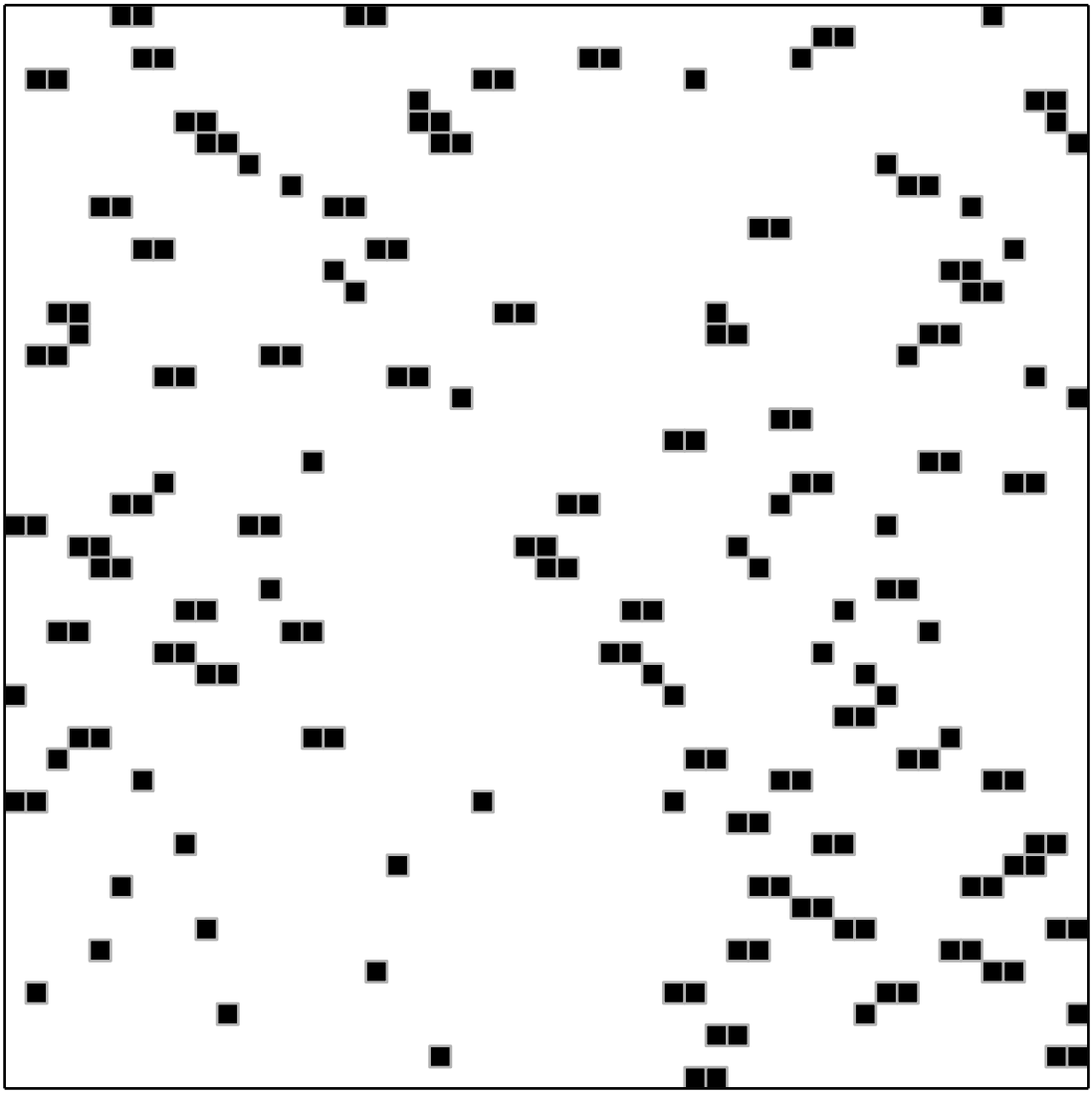
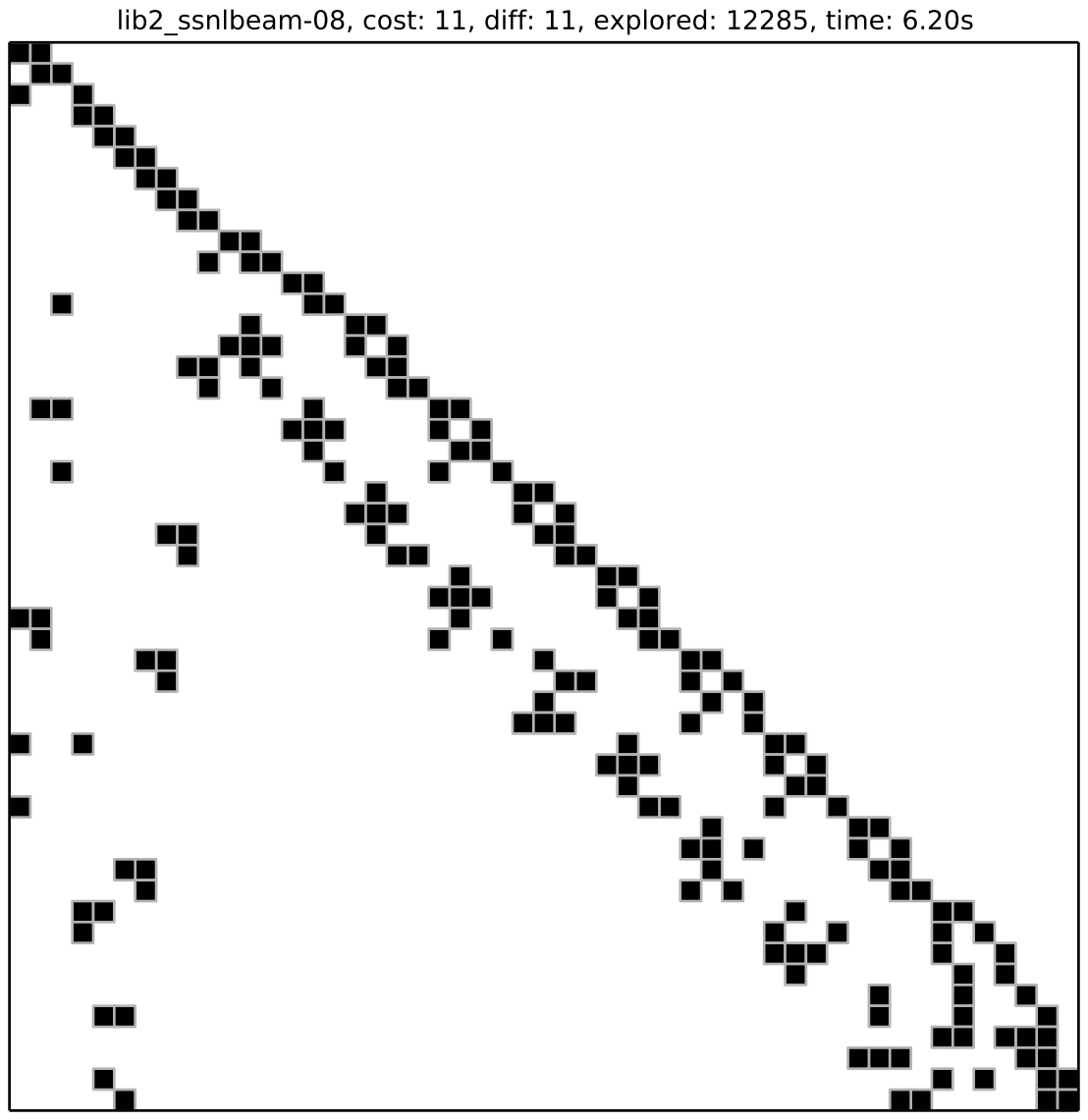
lib2_ssnlbeam-08 51x51 (198) con: 20, var: 31

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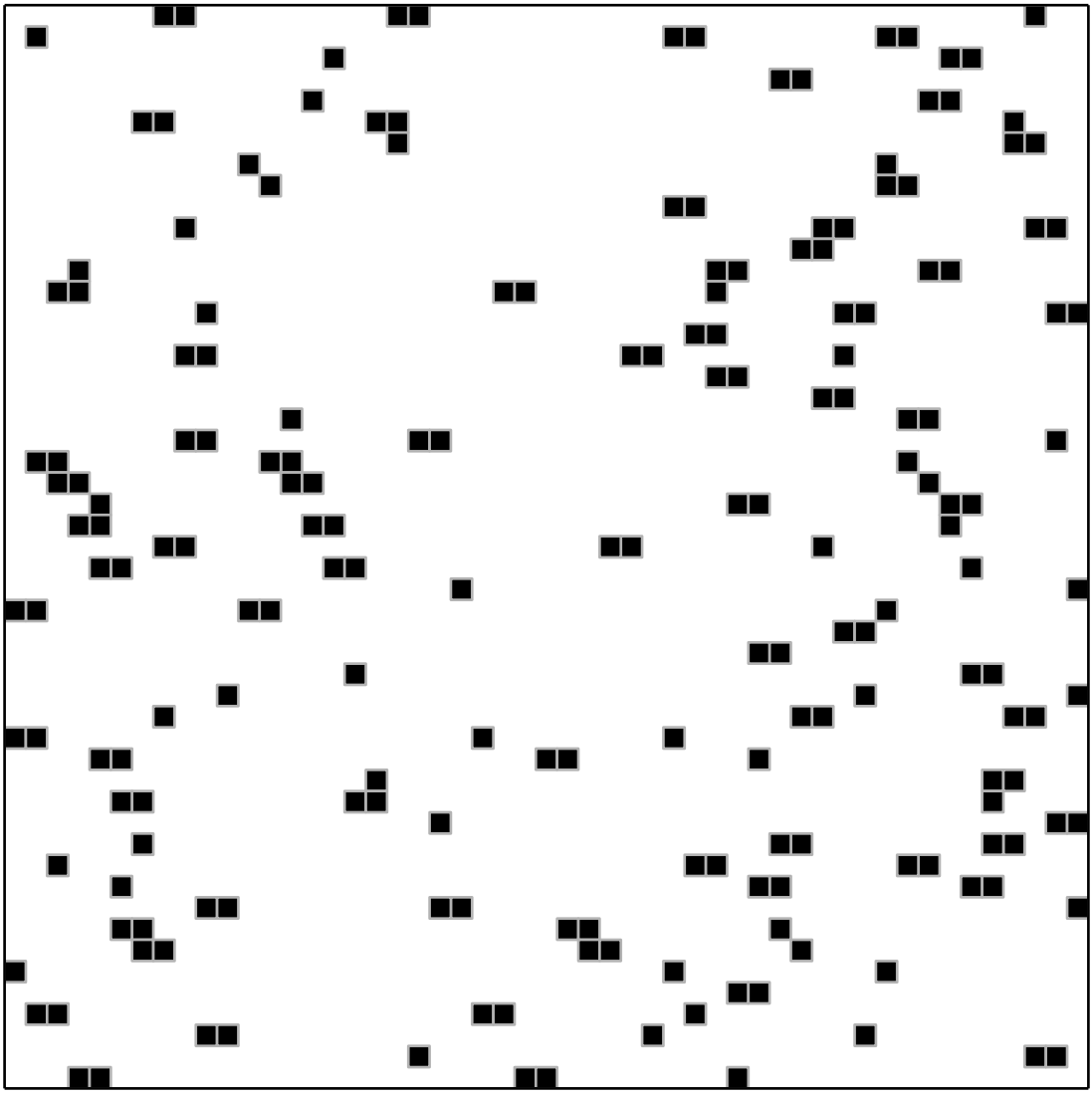
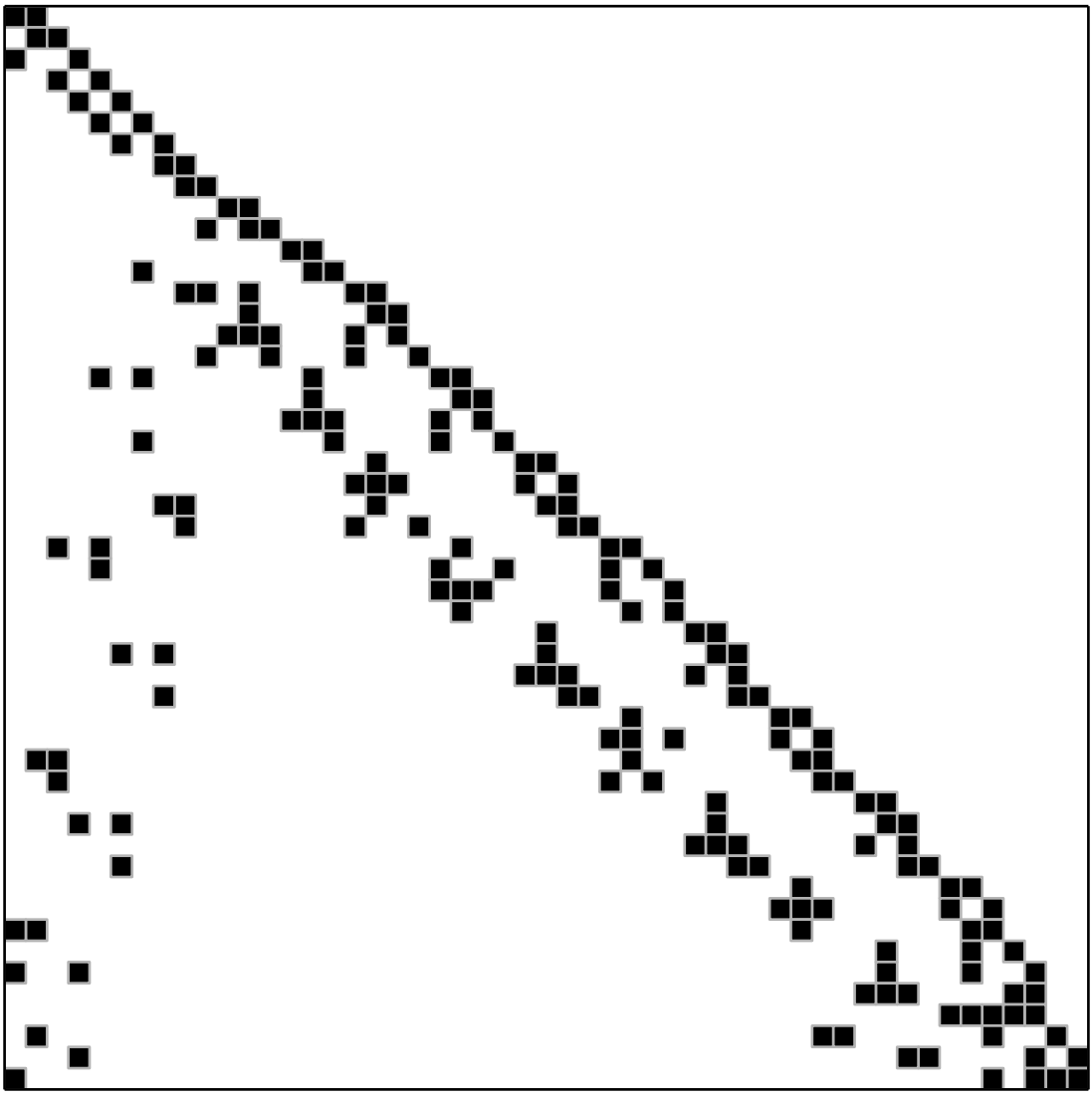
lib2_ssnlbeam-09 51x51 (198) con: 20, var: 31

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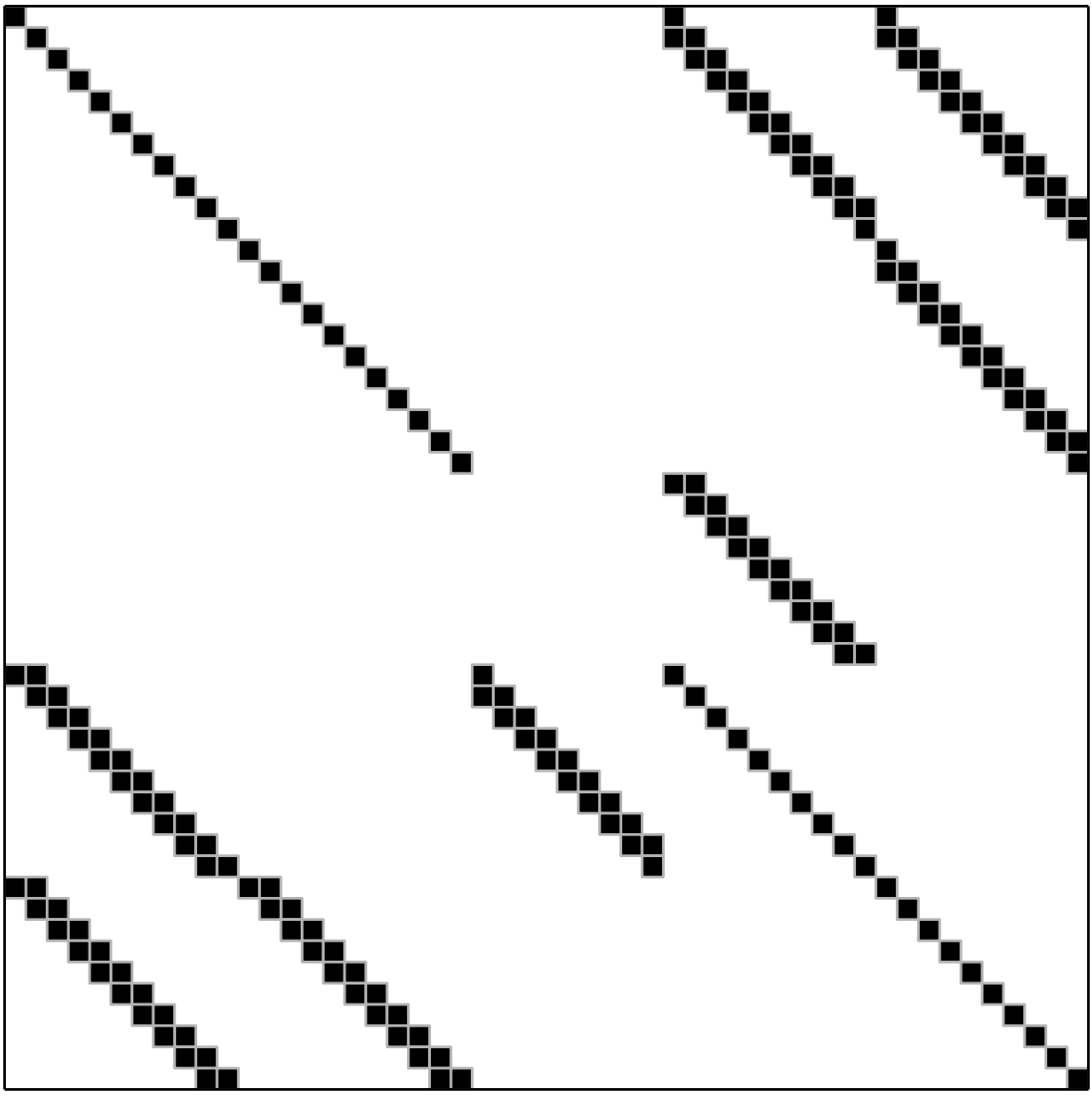
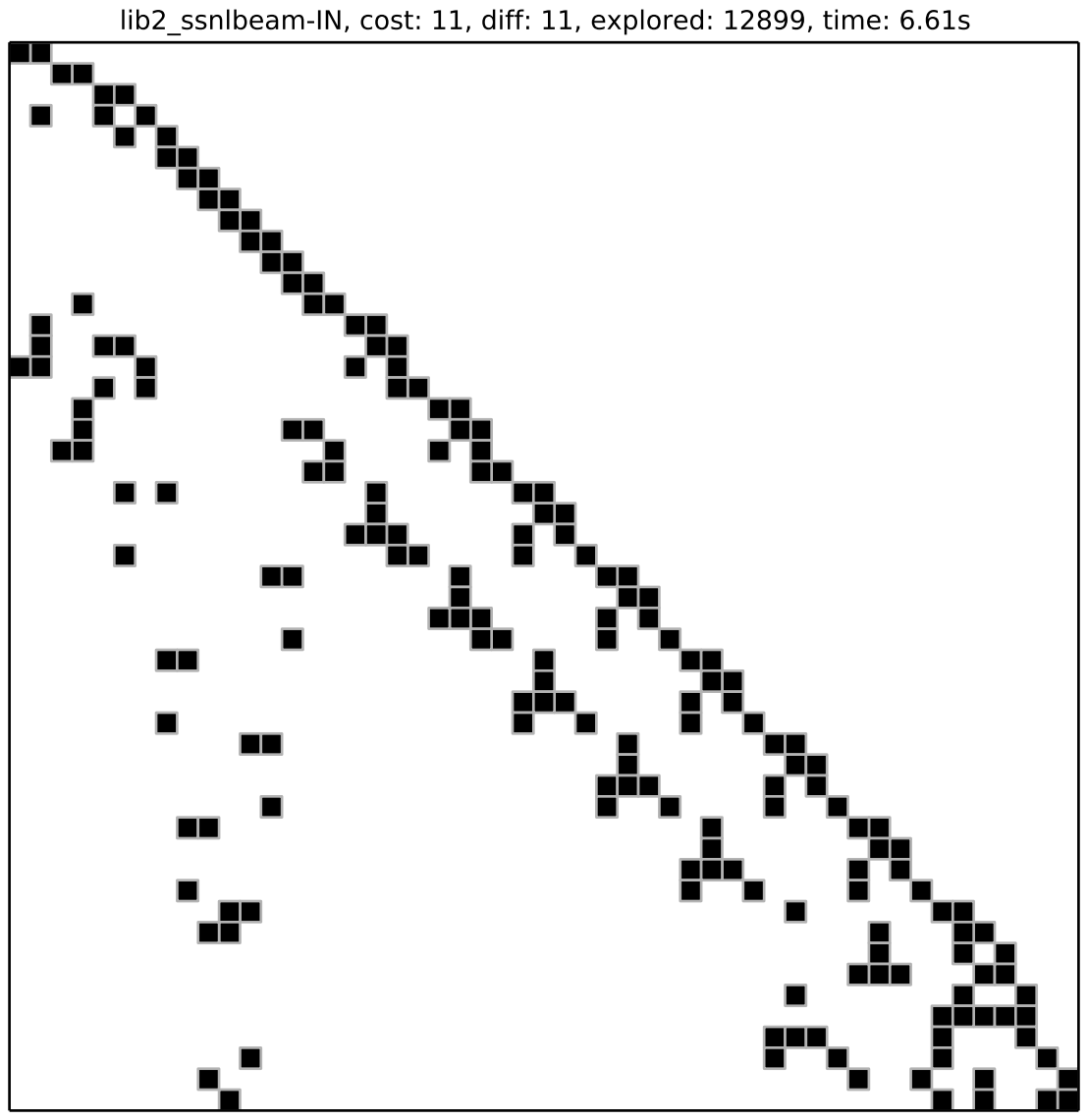
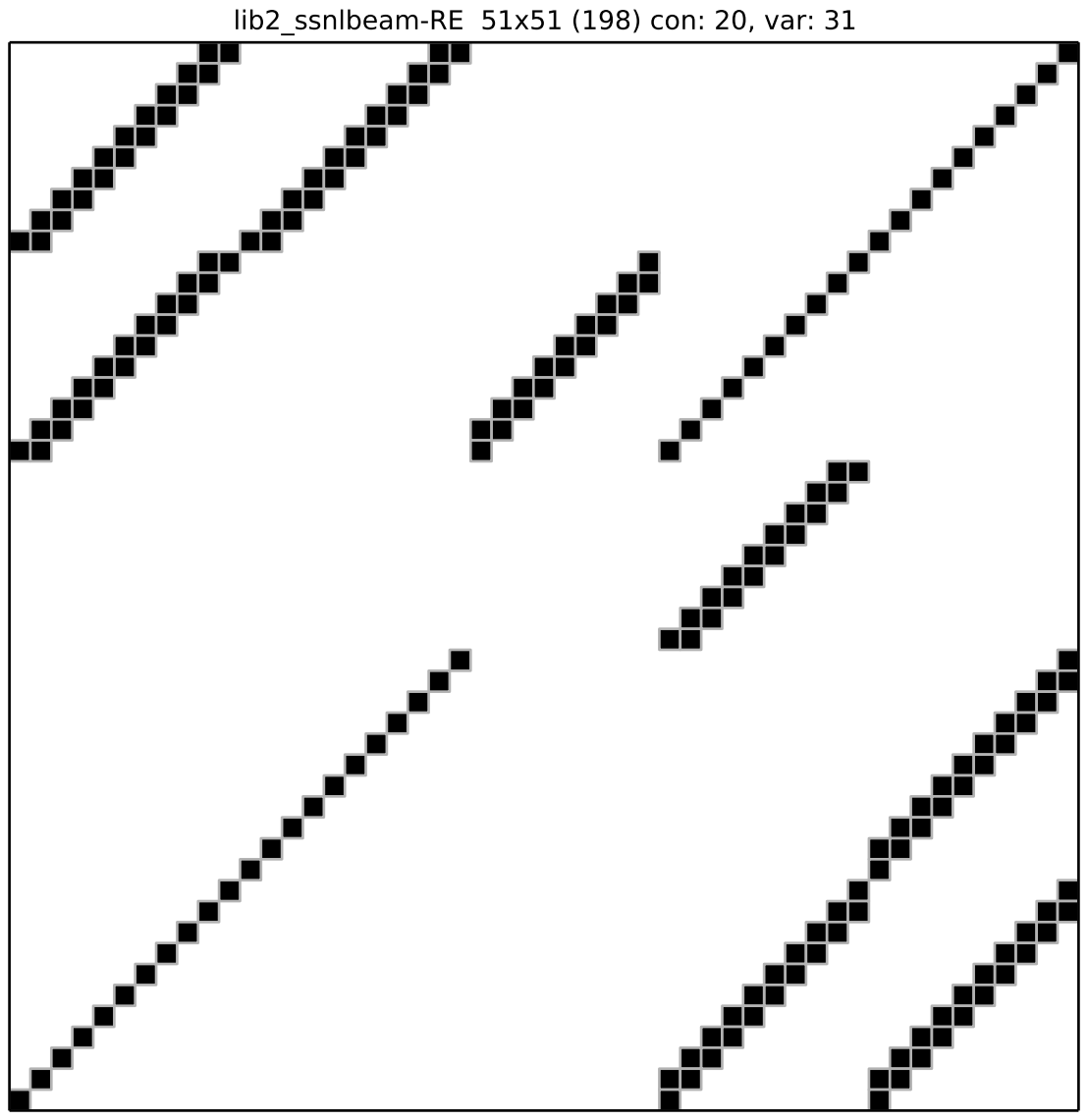
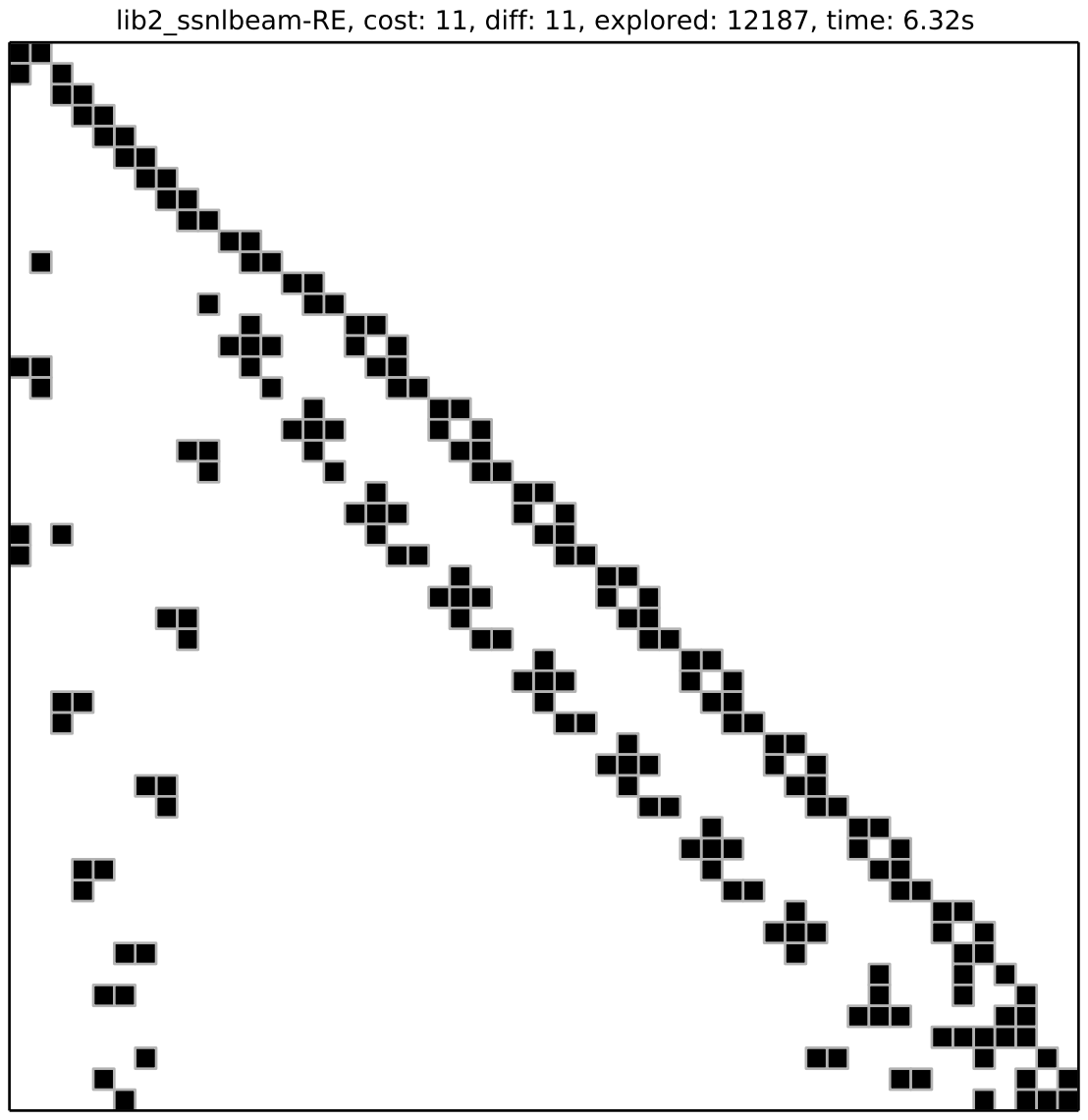

lib2_ssnlbeam-IN 51x51 (198) con: 20, var: 31


lib2_ssnlbeam-IN, cost: 11, diff: 11, explored: 12899, time: 6.61s


lib2_ssnlbeam-RE 51x51 (198) con: 20, var: 31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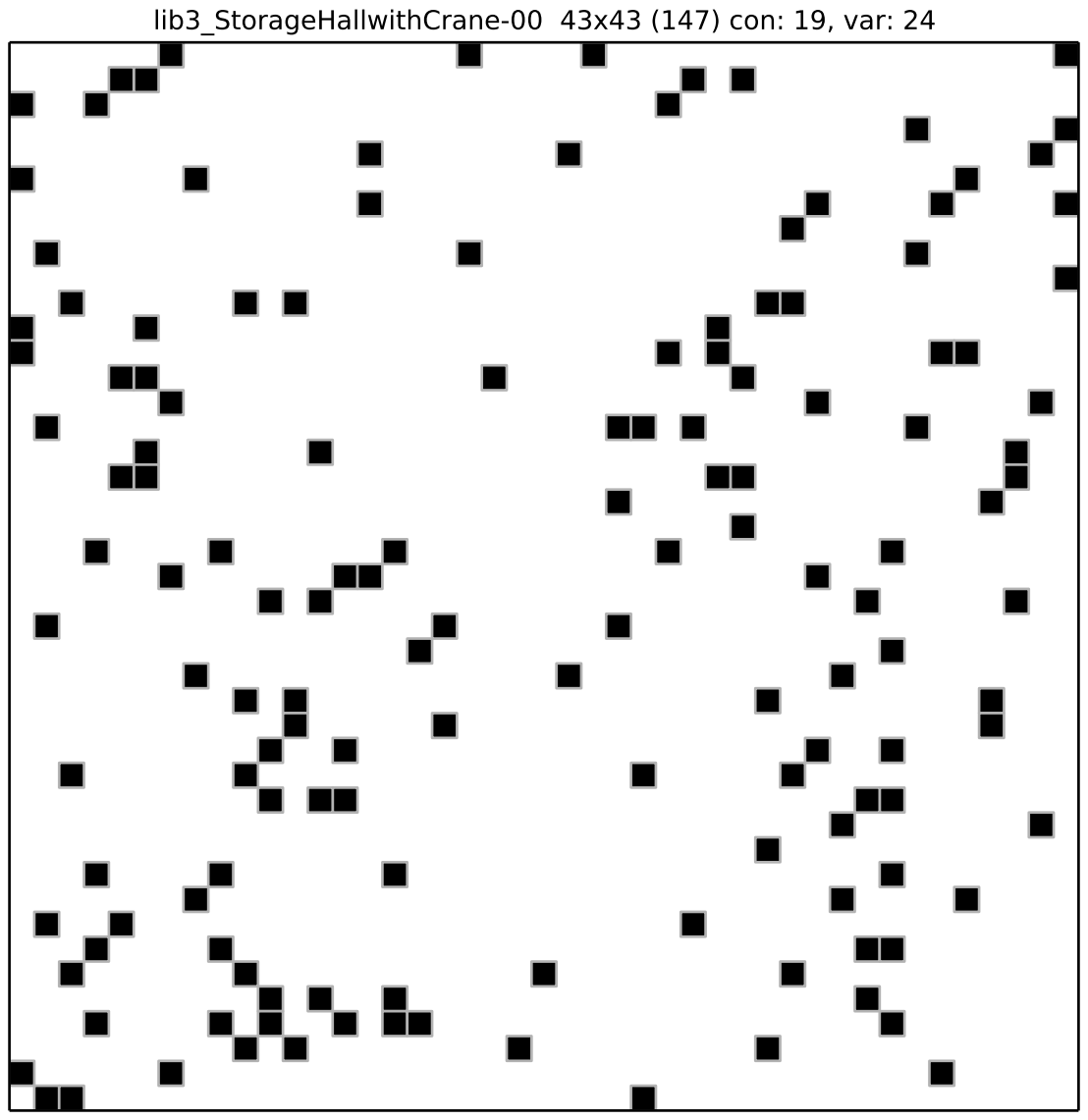
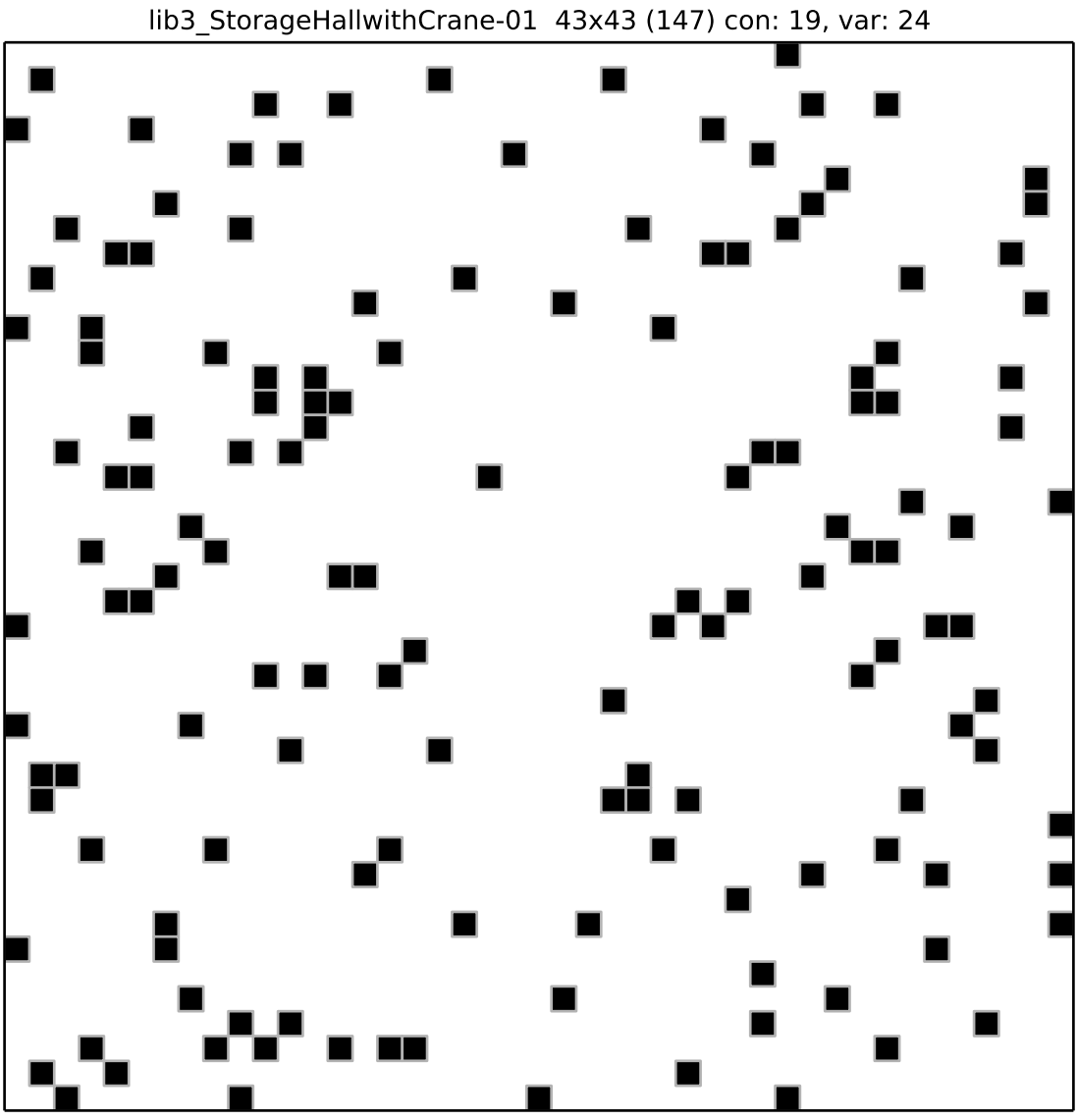
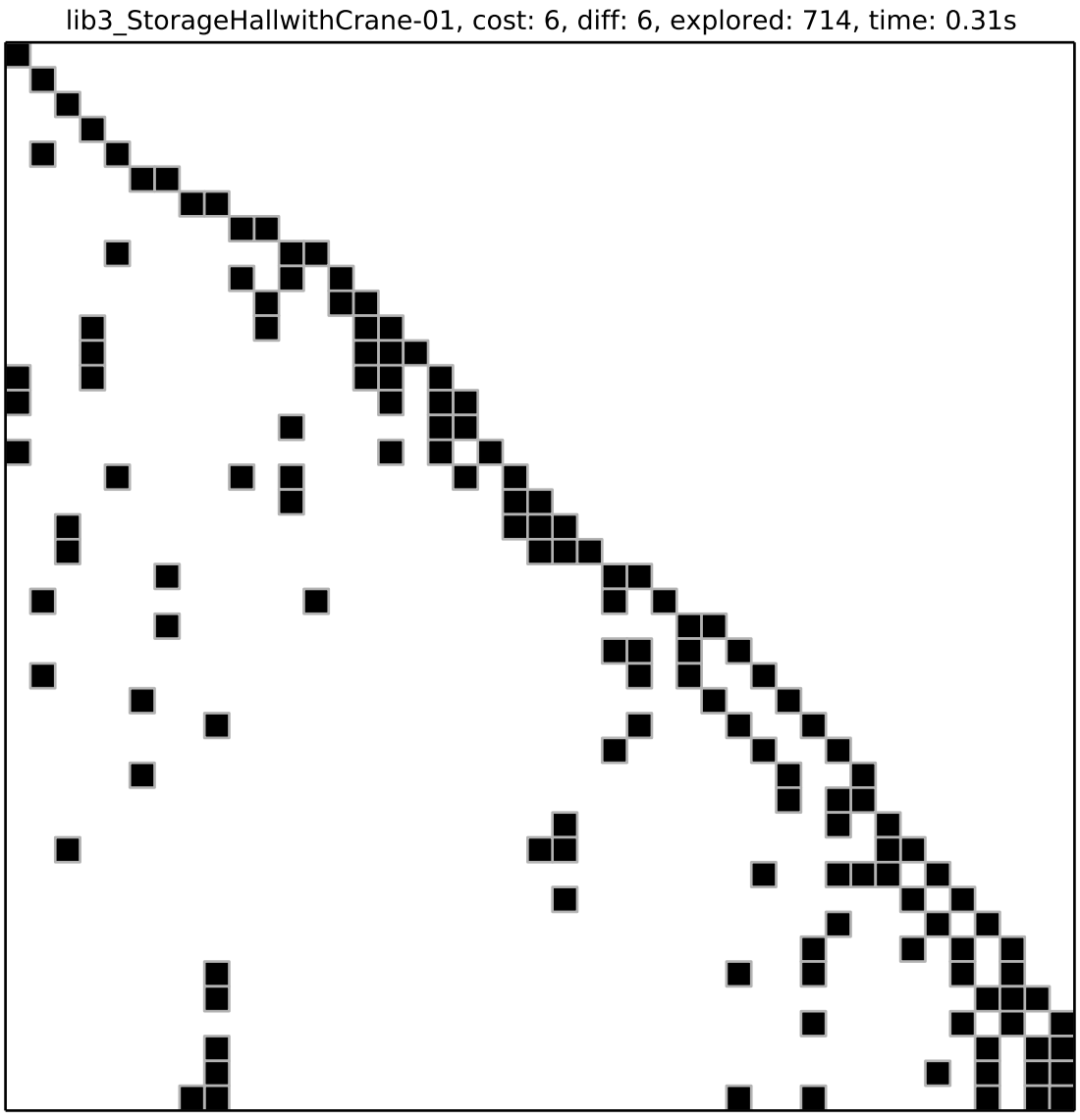
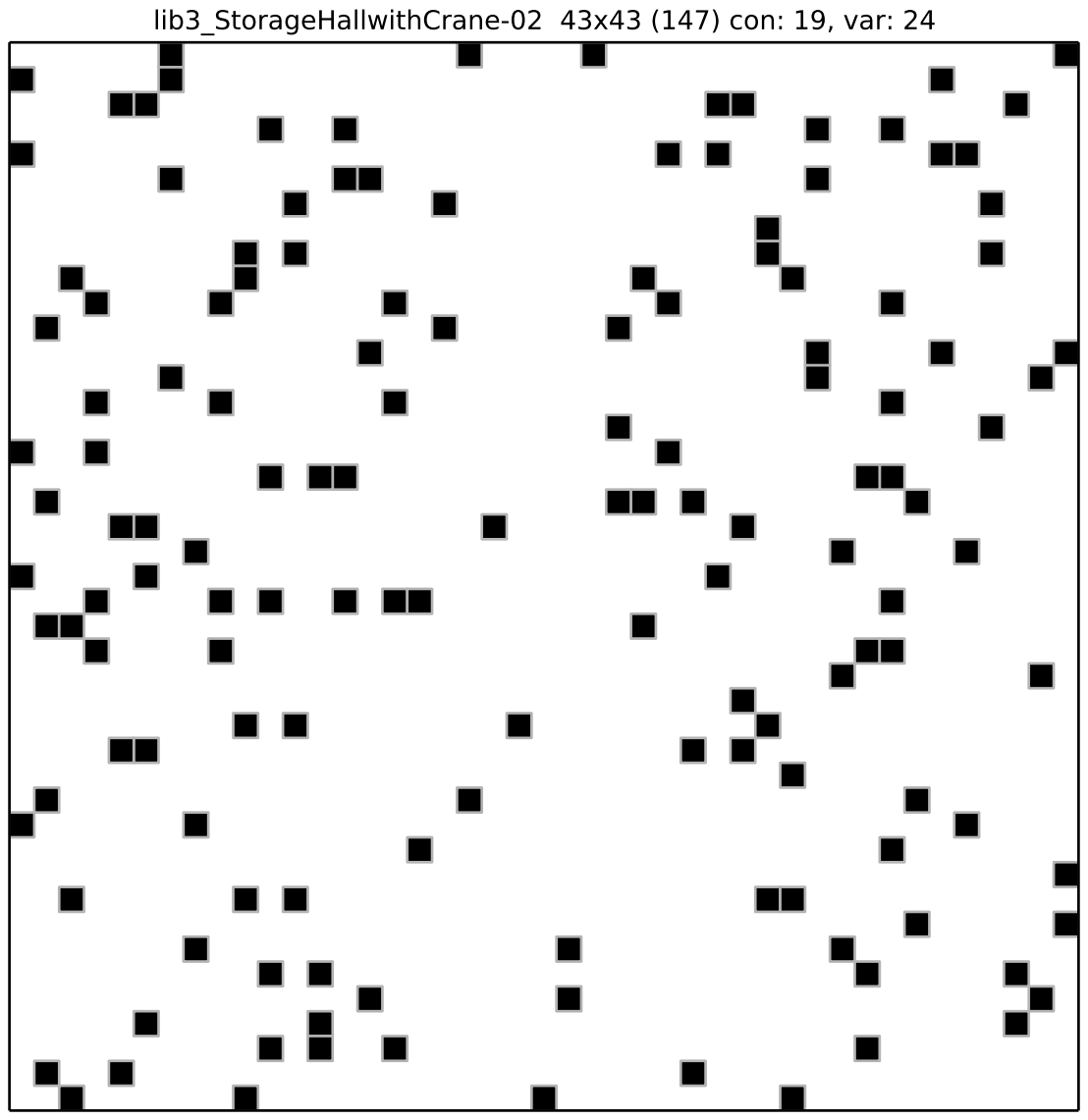

lib3_StorageHallwithCrane-00 43x43 (147) con: 19, var: 24

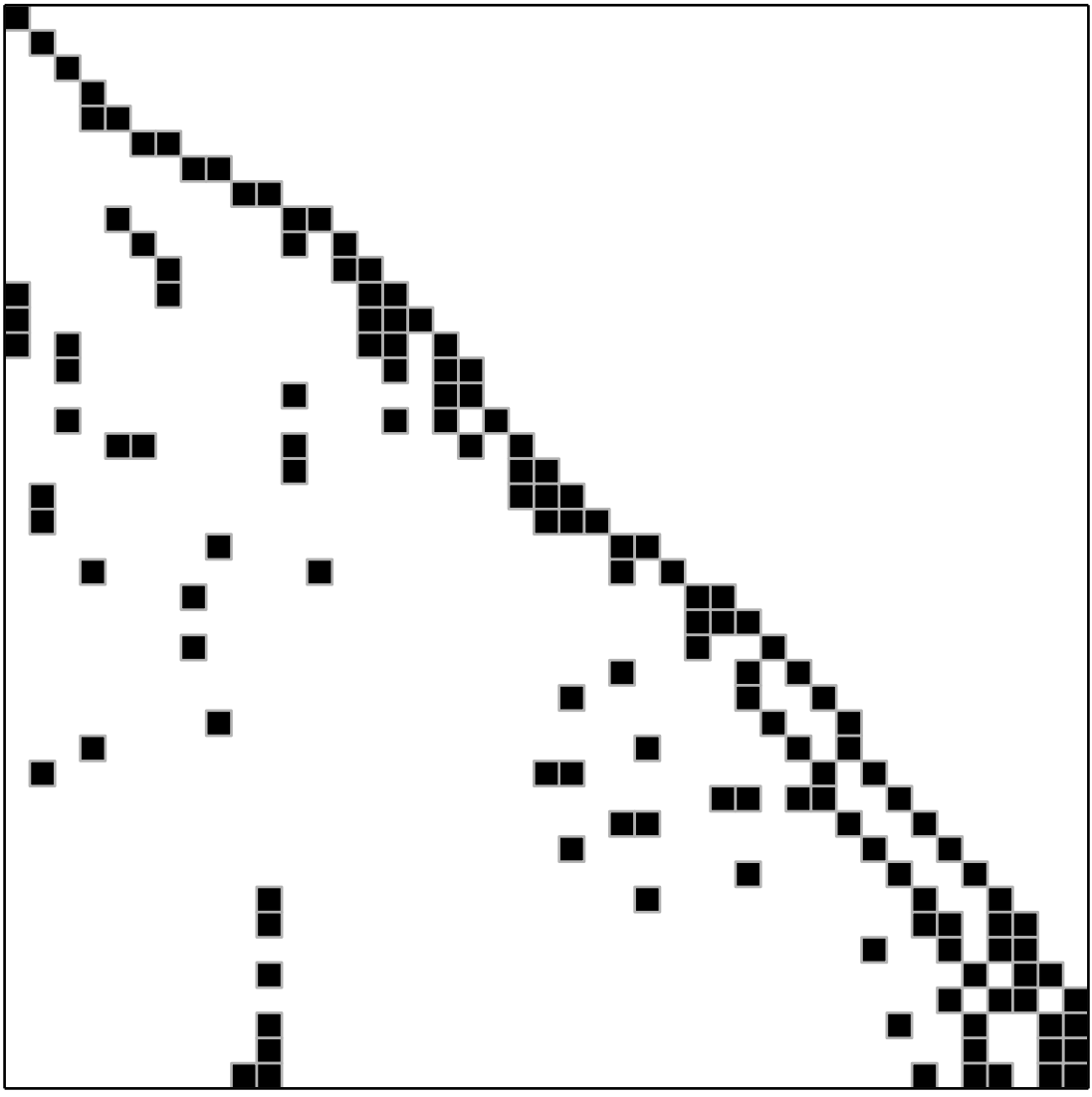
lib3_StorageHallwithCrane-00, cost: 6, diff: 6, explored: 692, time: 0.30s


lib3_StorageHallwithCrane-01 43x43 (147) con: 19, var: 24

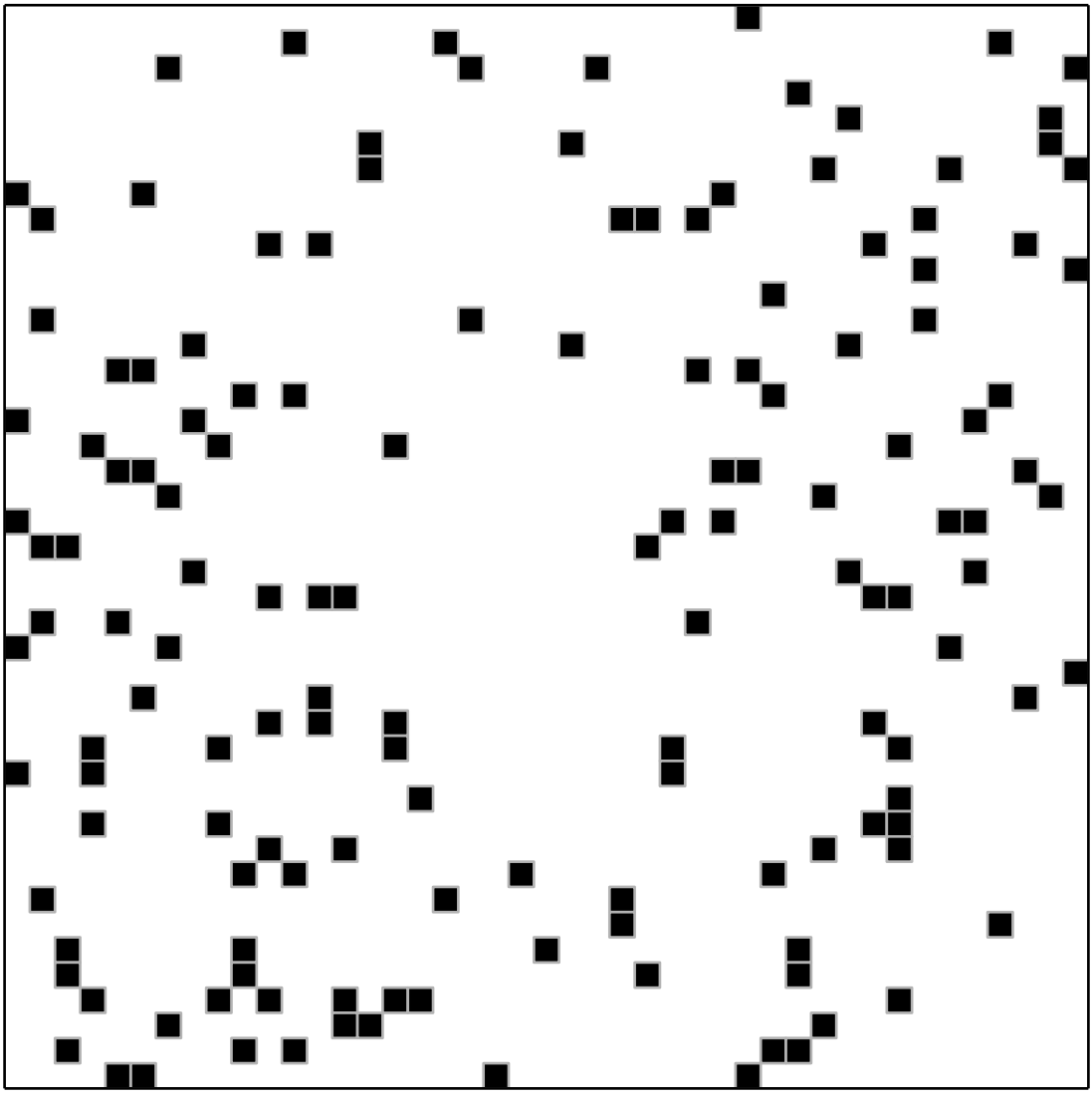

lib3_StorageHallwithCrane-01, cost: 6, diff: 6, explored: 714, time: 0.31s


lib3_StorageHallwithCrane-02 43x43 (147) con: 19, var: 24

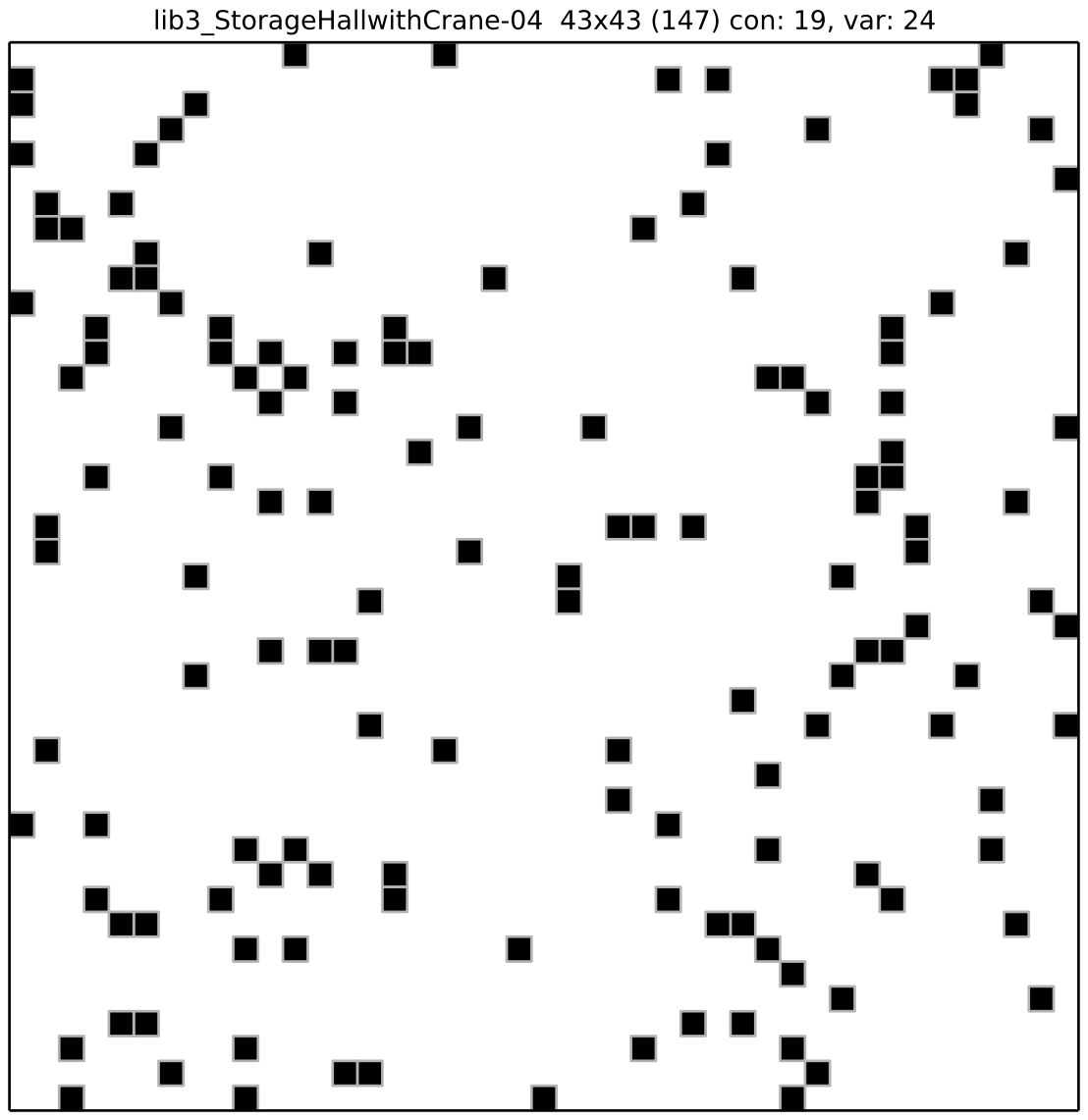
lib3_StorageHallwithCrane-02, cost: 6, diff: 6, explored: 644, time: 0.28s

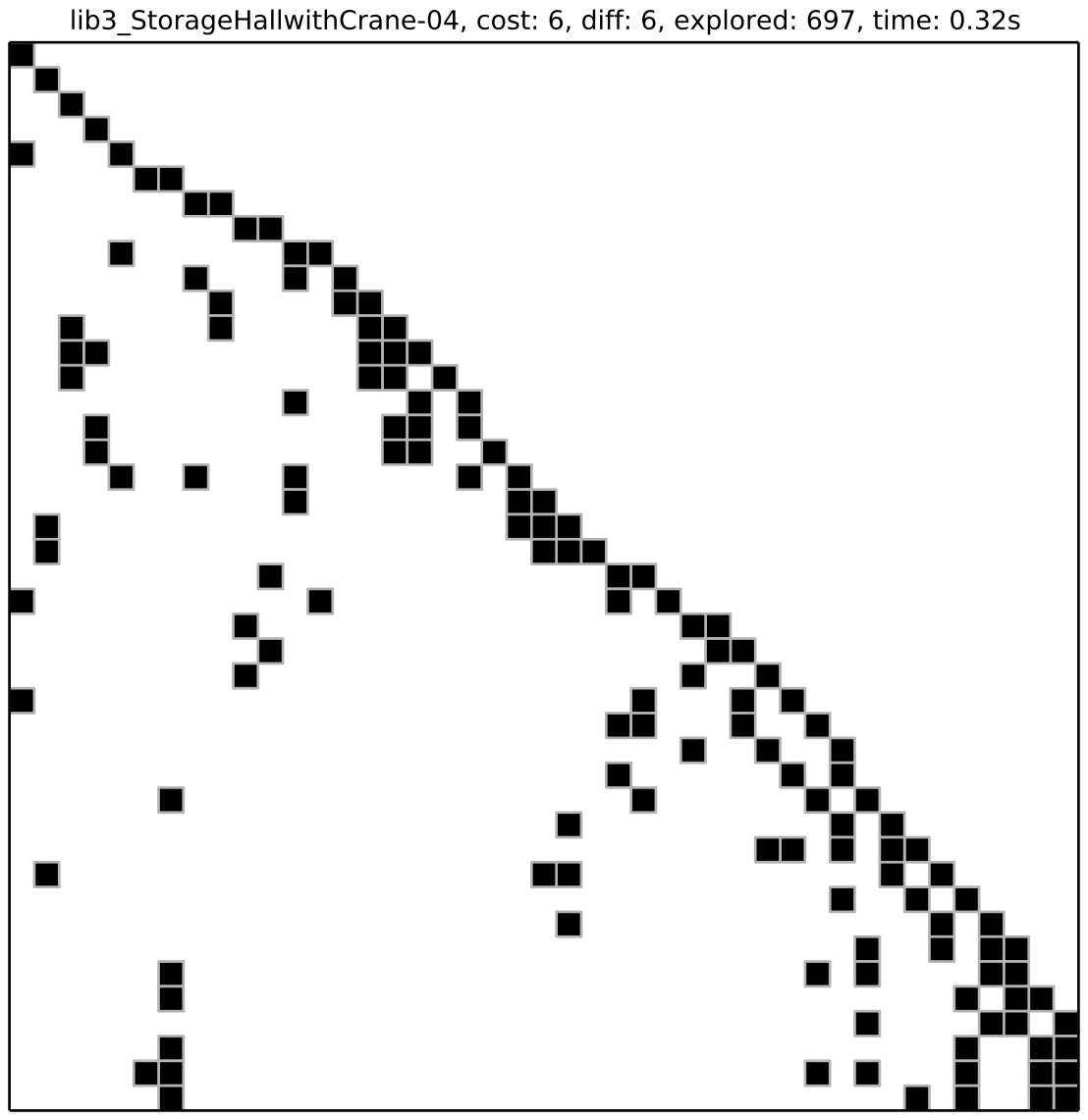


lib3_StorageHallwithCrane-03 43x43 (147) con: 19, var: 24

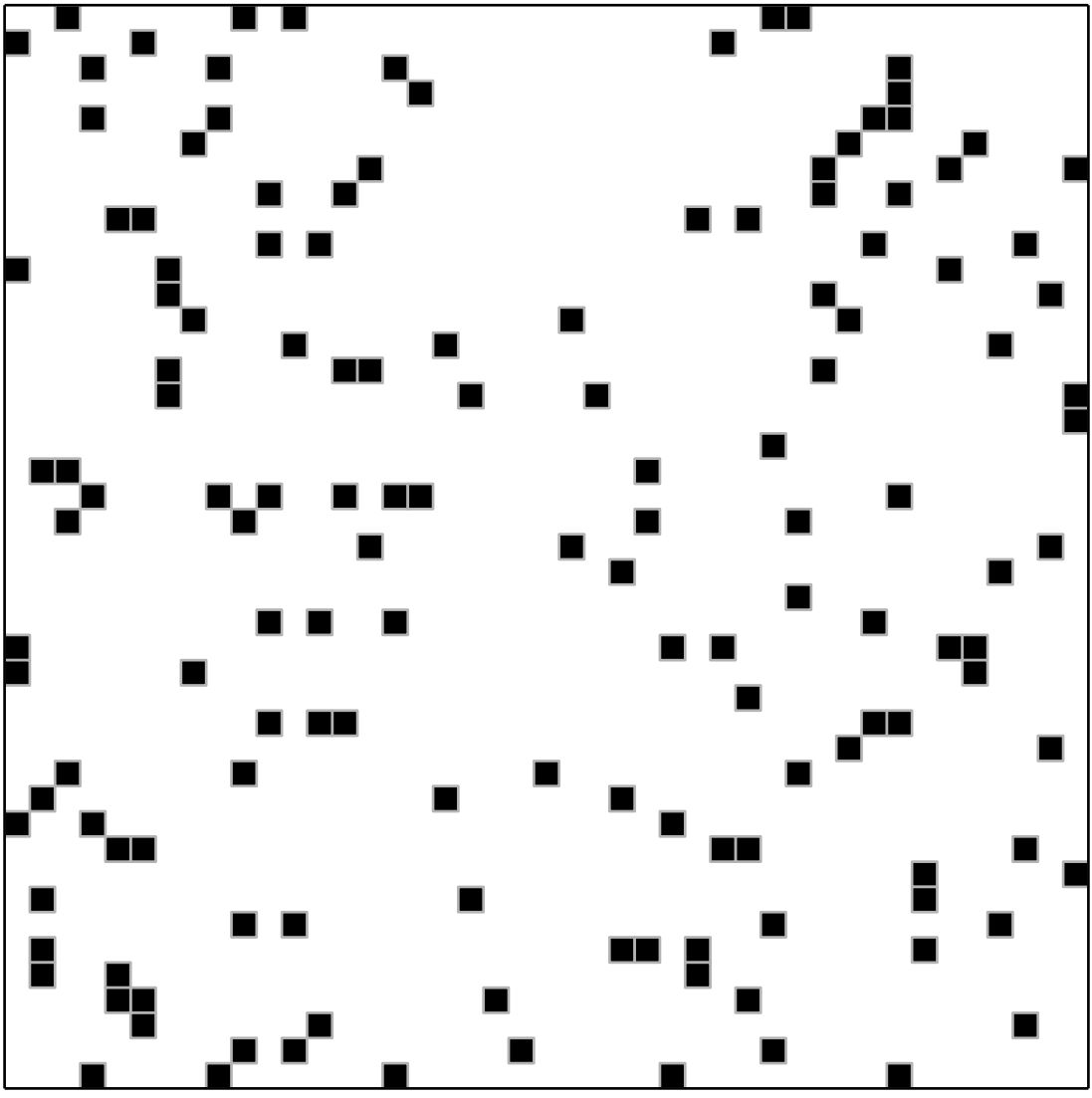


lib3_StorageHallwithCrane-03, cost: 6, diff: 6, explored: 678, time: 0.29s

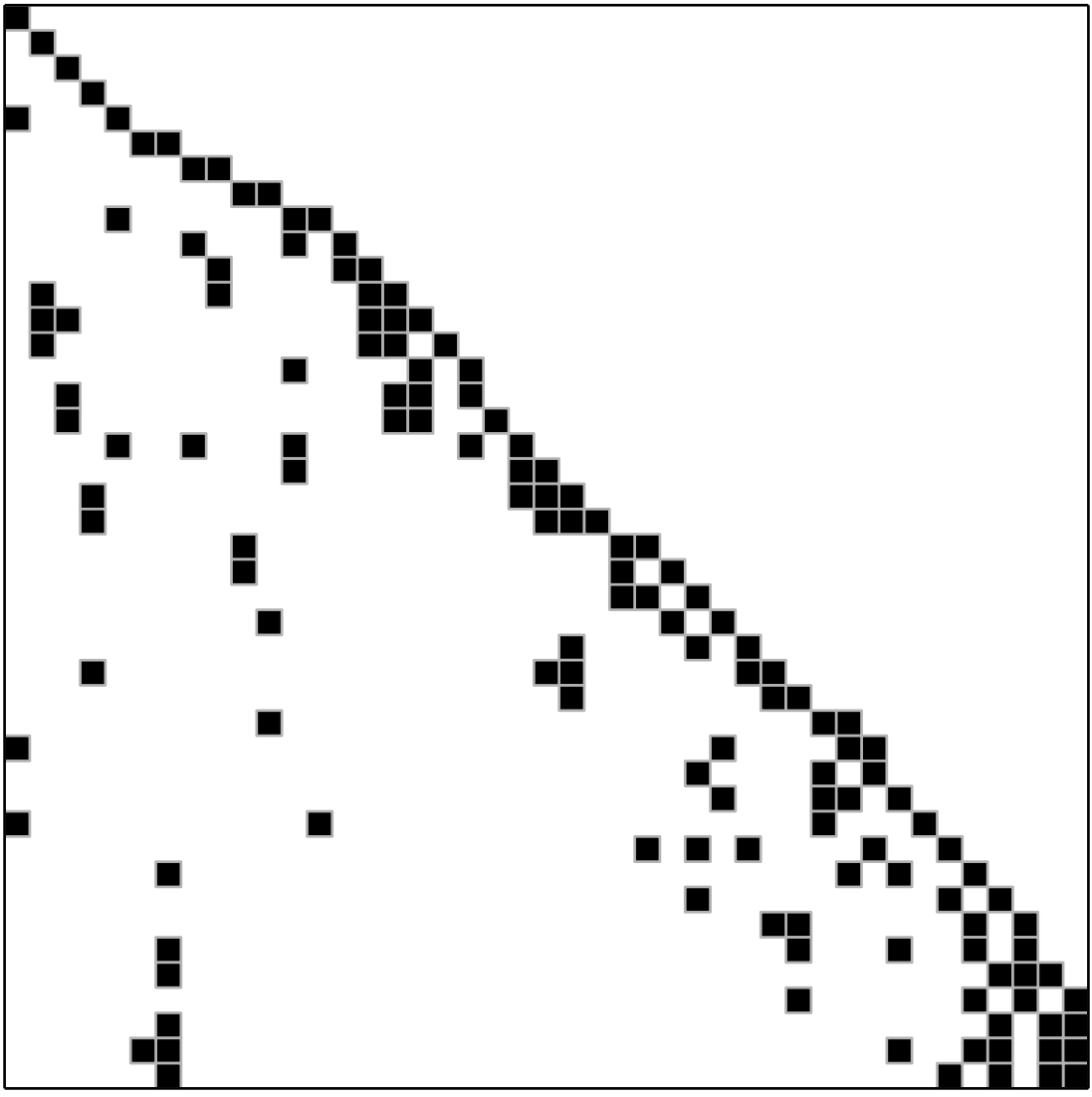

lib3_StorageHallwithCrane-04 43x43 (147) con: 19, var: 24


lib3_StorageHallwithCrane-04, cost: 6, diff: 6, explored: 697, time: 0.32s

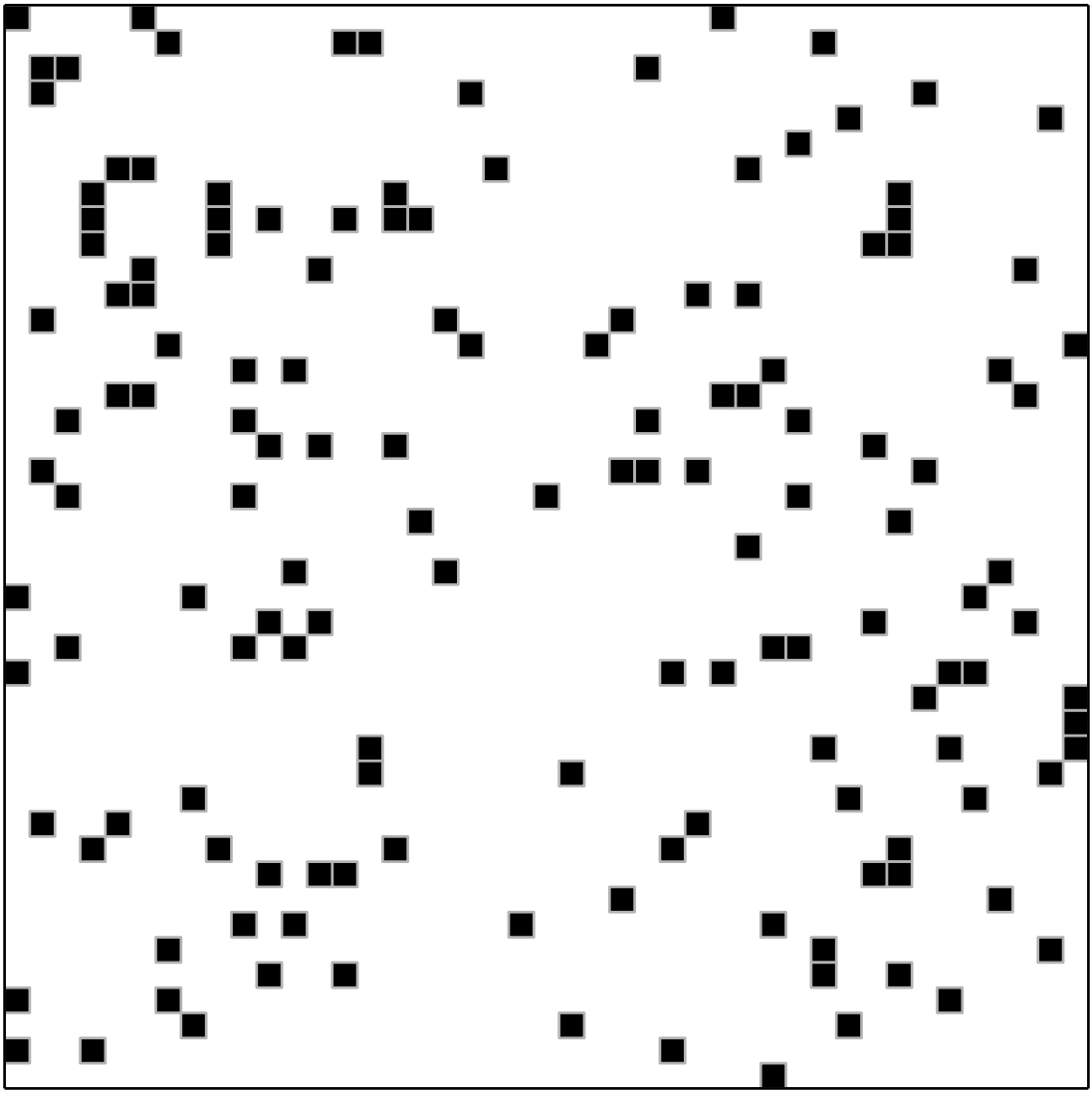
lib3_StorageHallwithCrane-05 43x43 (147) con: 19, var: 24



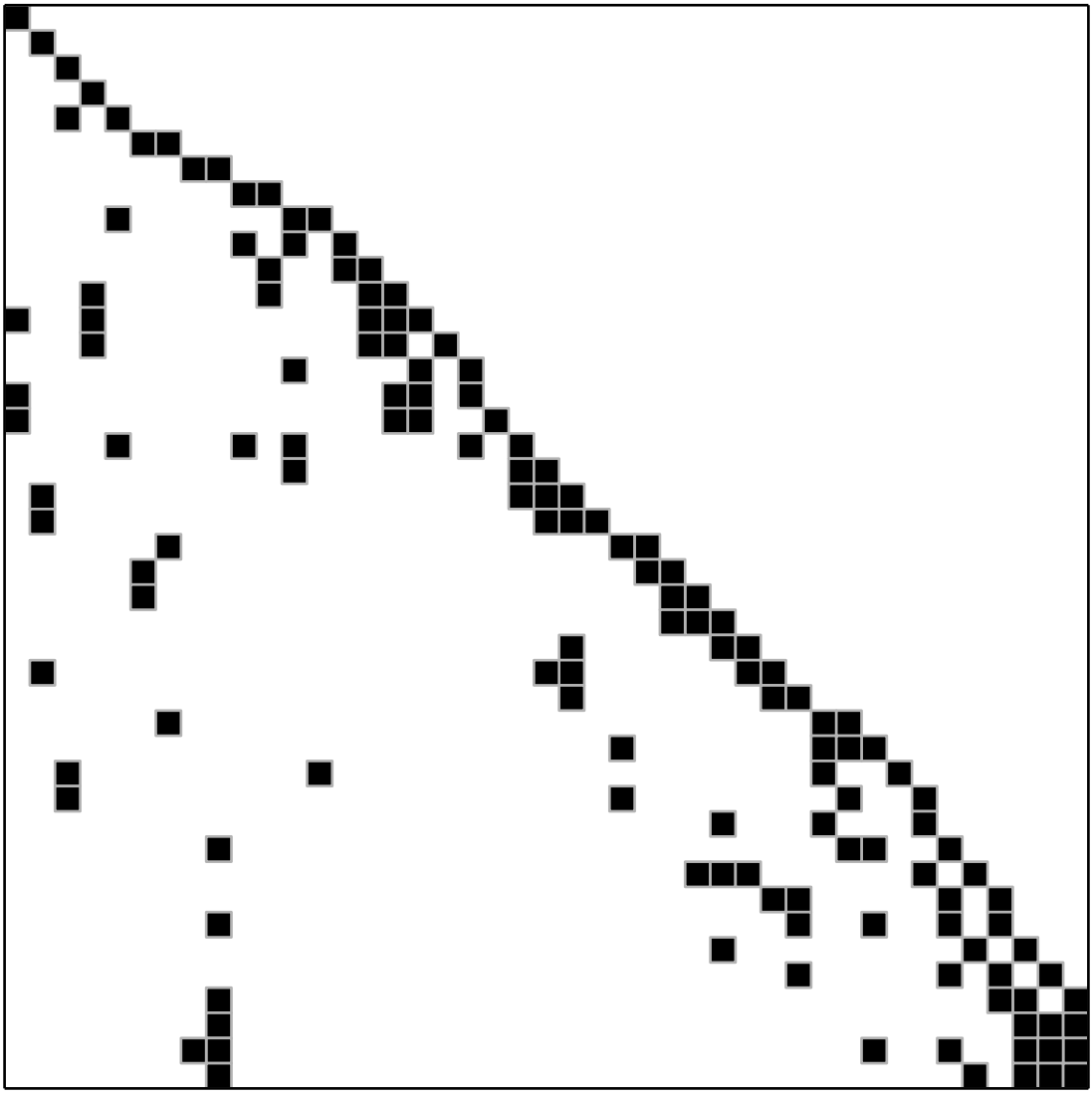
lib3_StorageHallwithCrane-05, cost: 6, diff: 6, explored: 674, time: 0.30s

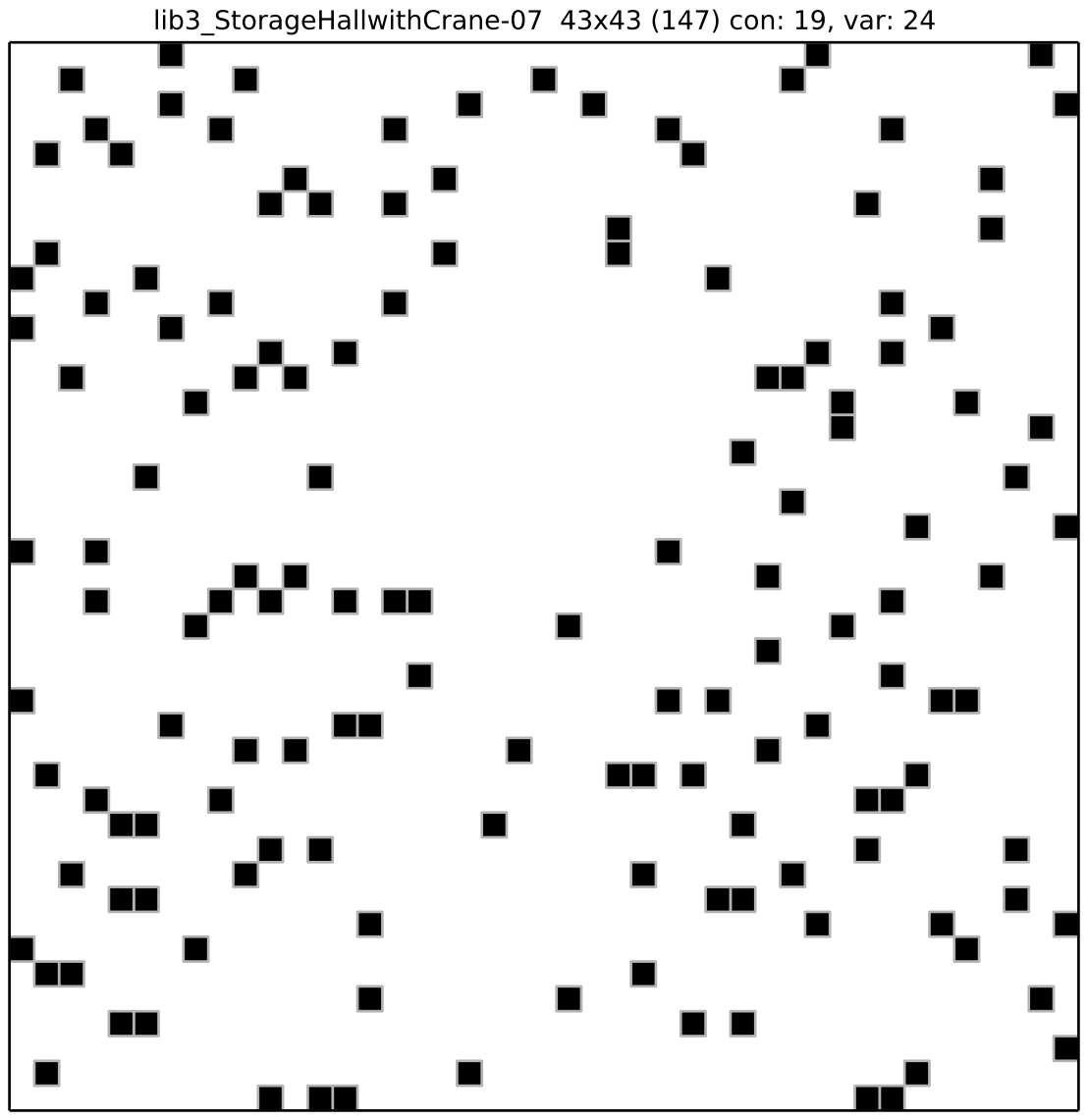


lib3_StorageHallwithCrane-06 43x43 (147) con: 19, var: 24

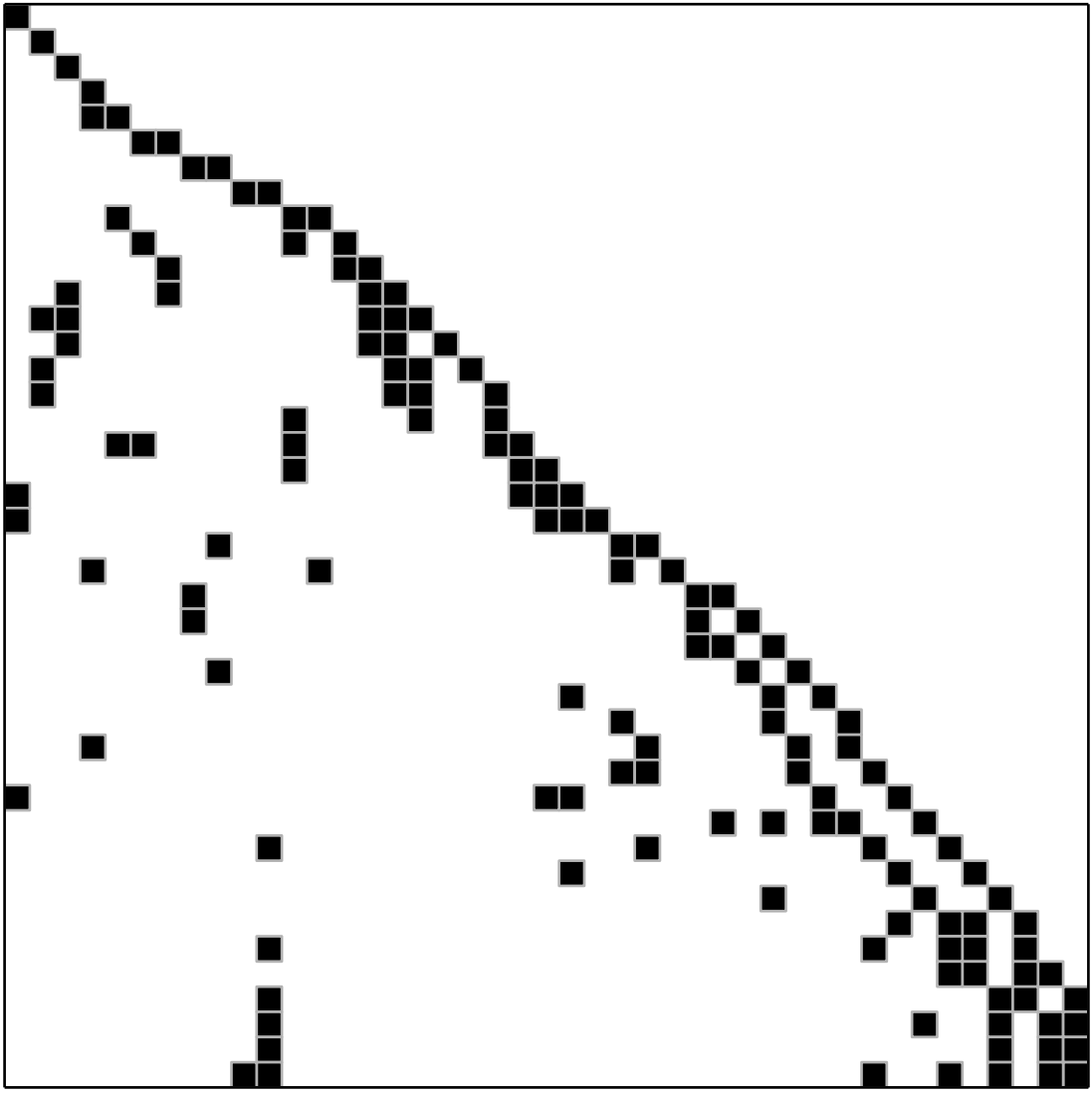


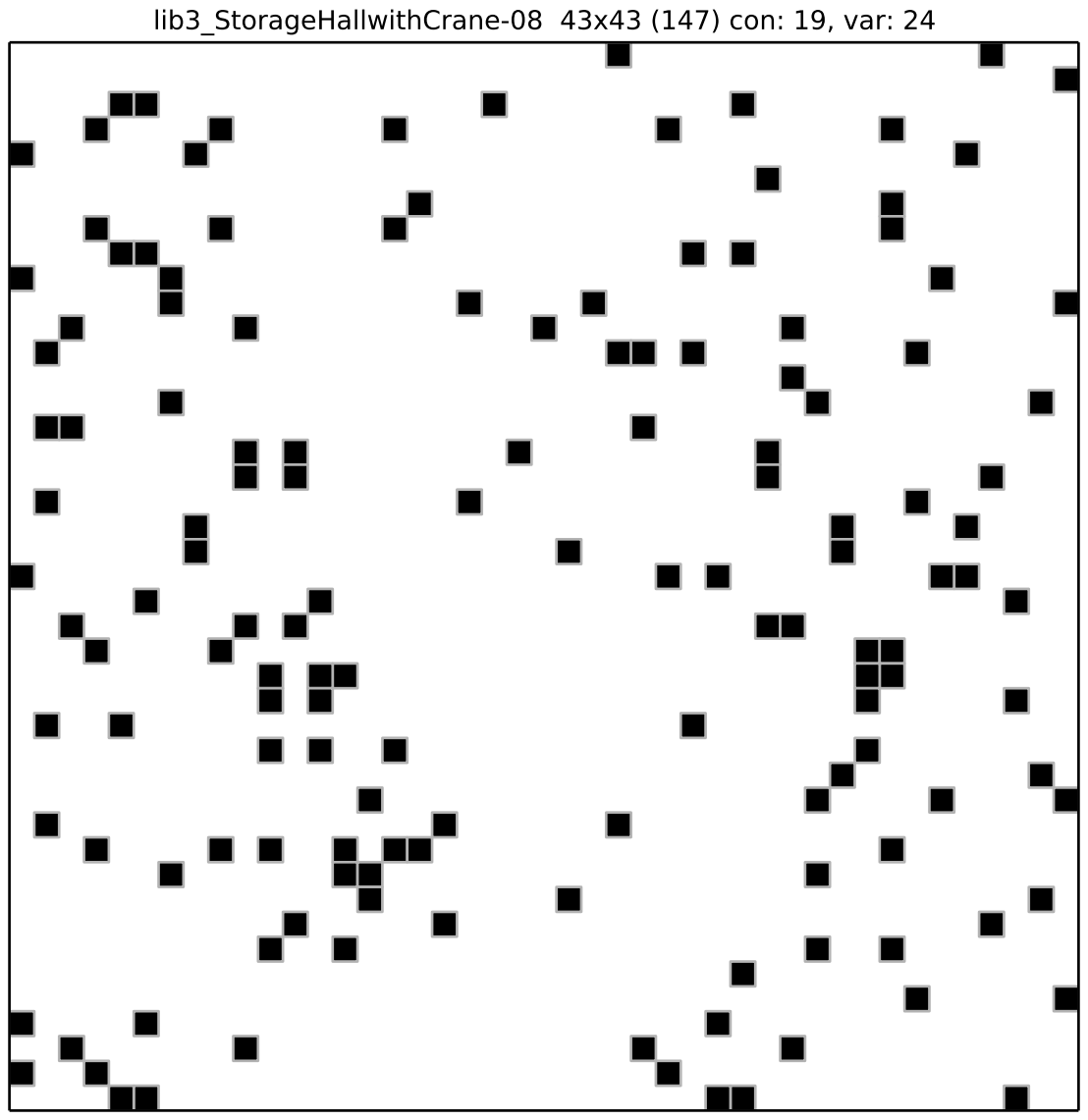
lib3_StorageHallwithCrane-06, cost: 6, diff: 6, explored: 704, time: 0.30s



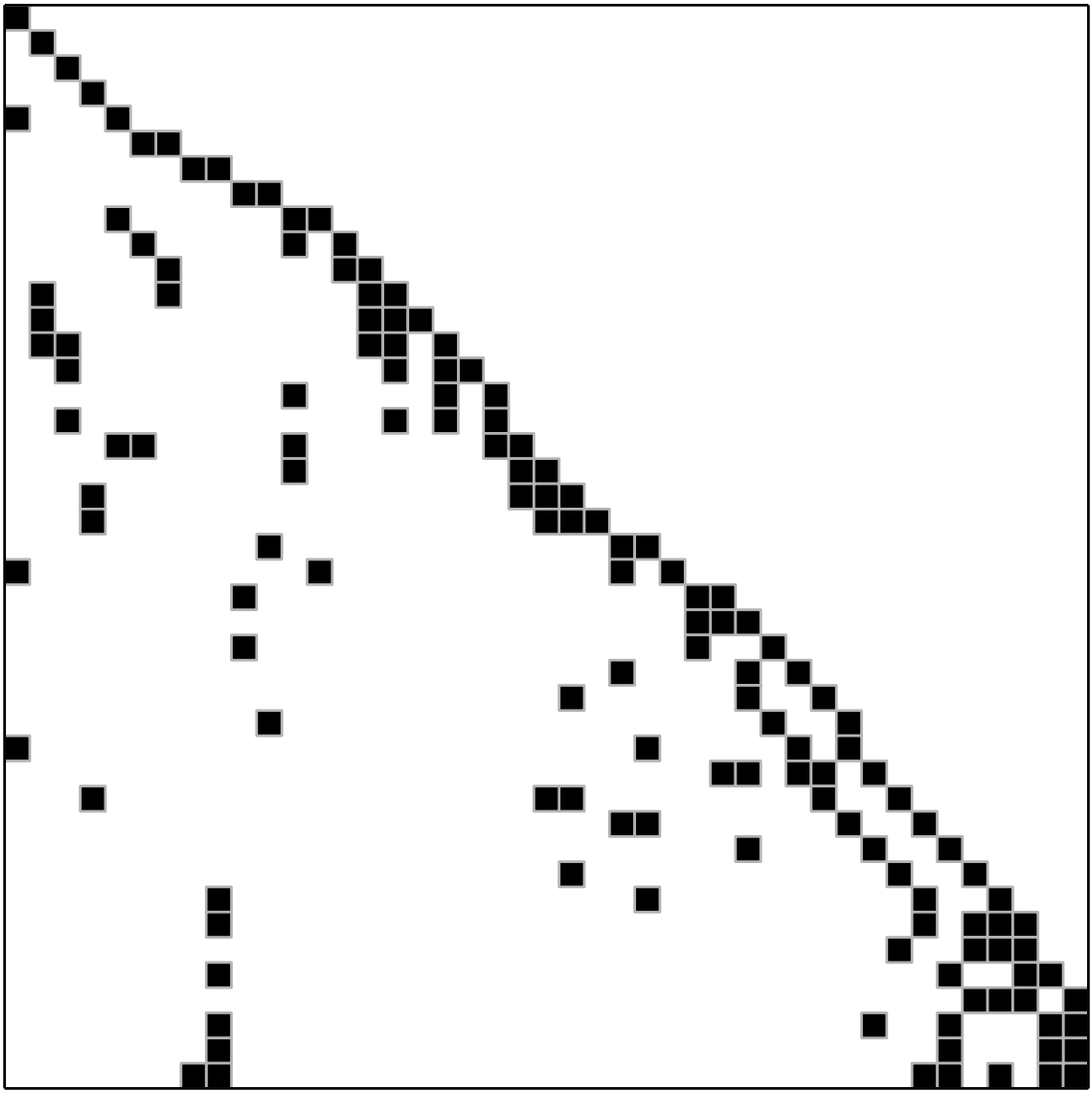

lib3_StorageHallwithCrane-07 43x43 (147) con: 19, var: 24

lib3_StorageHallwithCrane-07, cost: 6, diff: 6, explored: 675, time: 0.31s

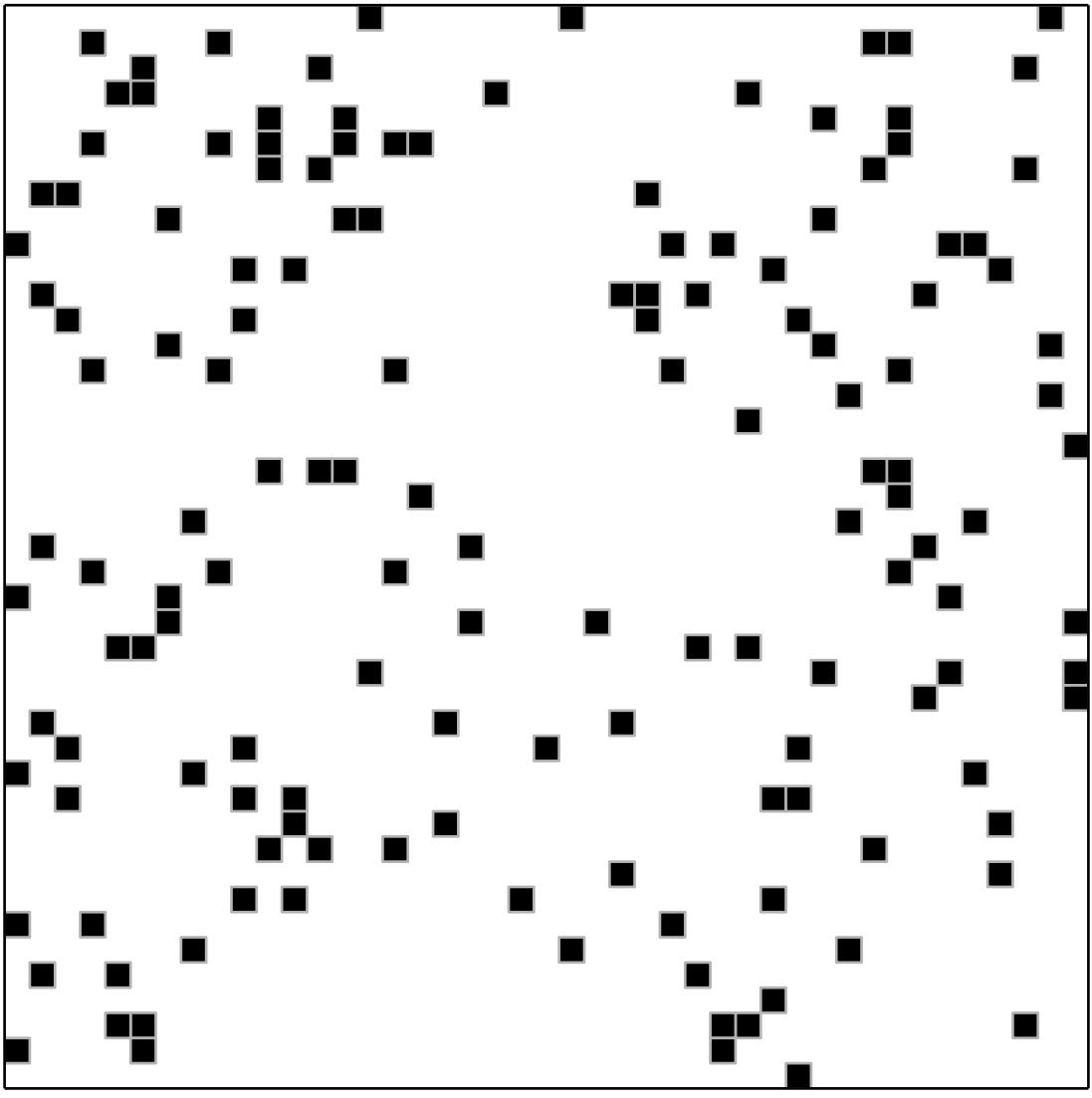


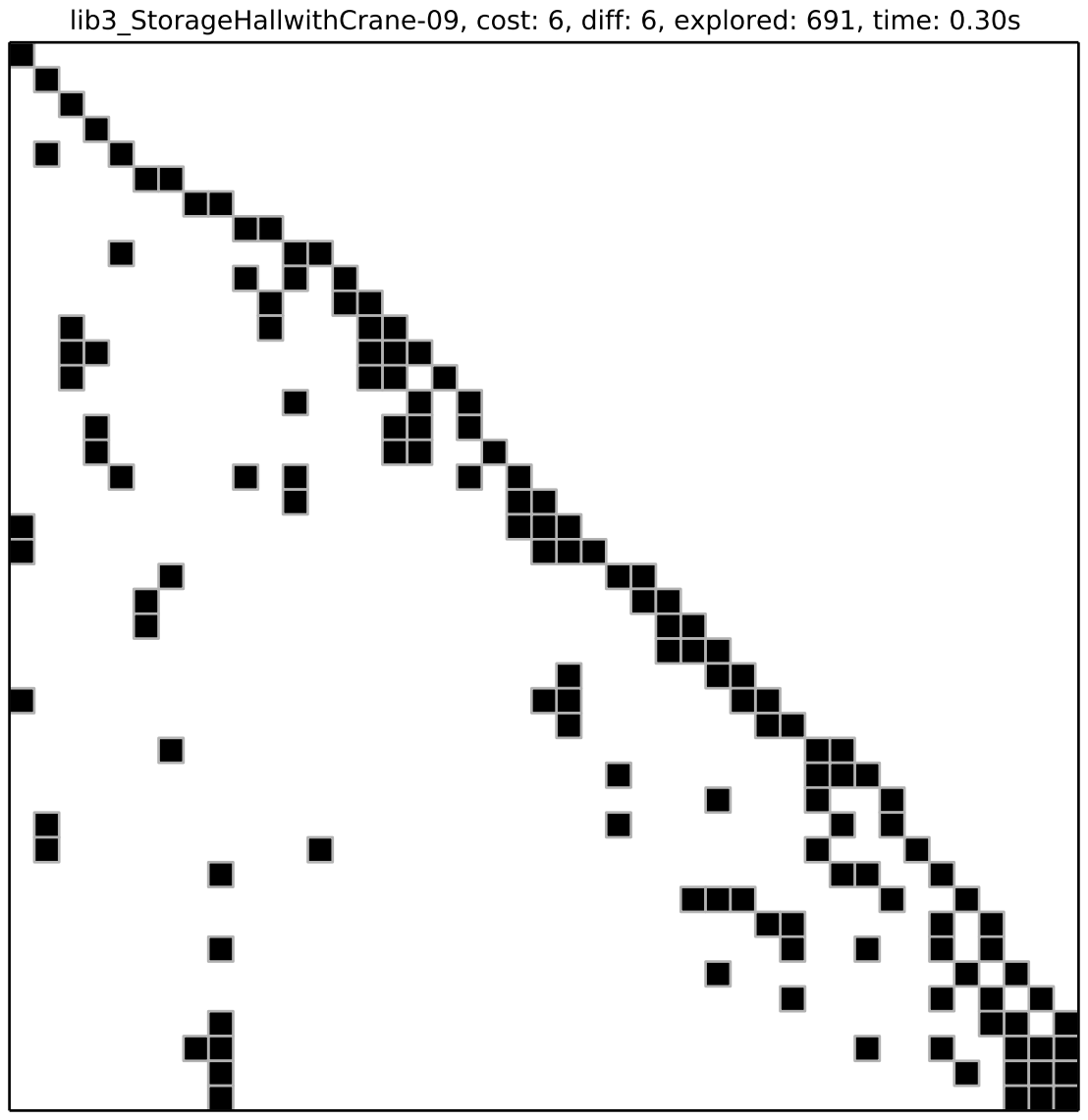

lib3_StorageHallwithCrane-08 43x43 (147) con: 19, var: 24

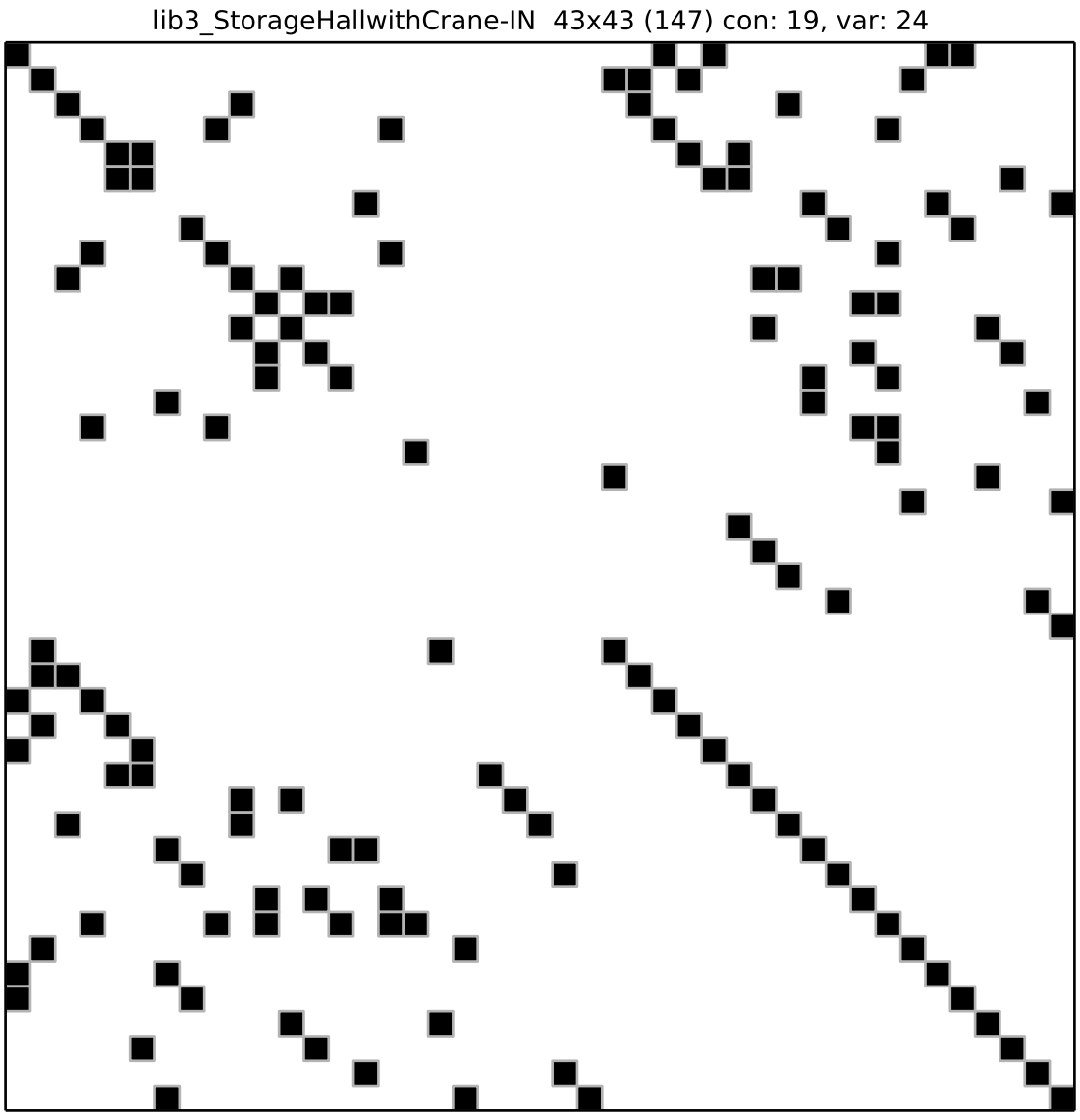
lib3_StorageHallwithCrane-08, cost: 6, diff: 6, explored: 654, time: 0.30s

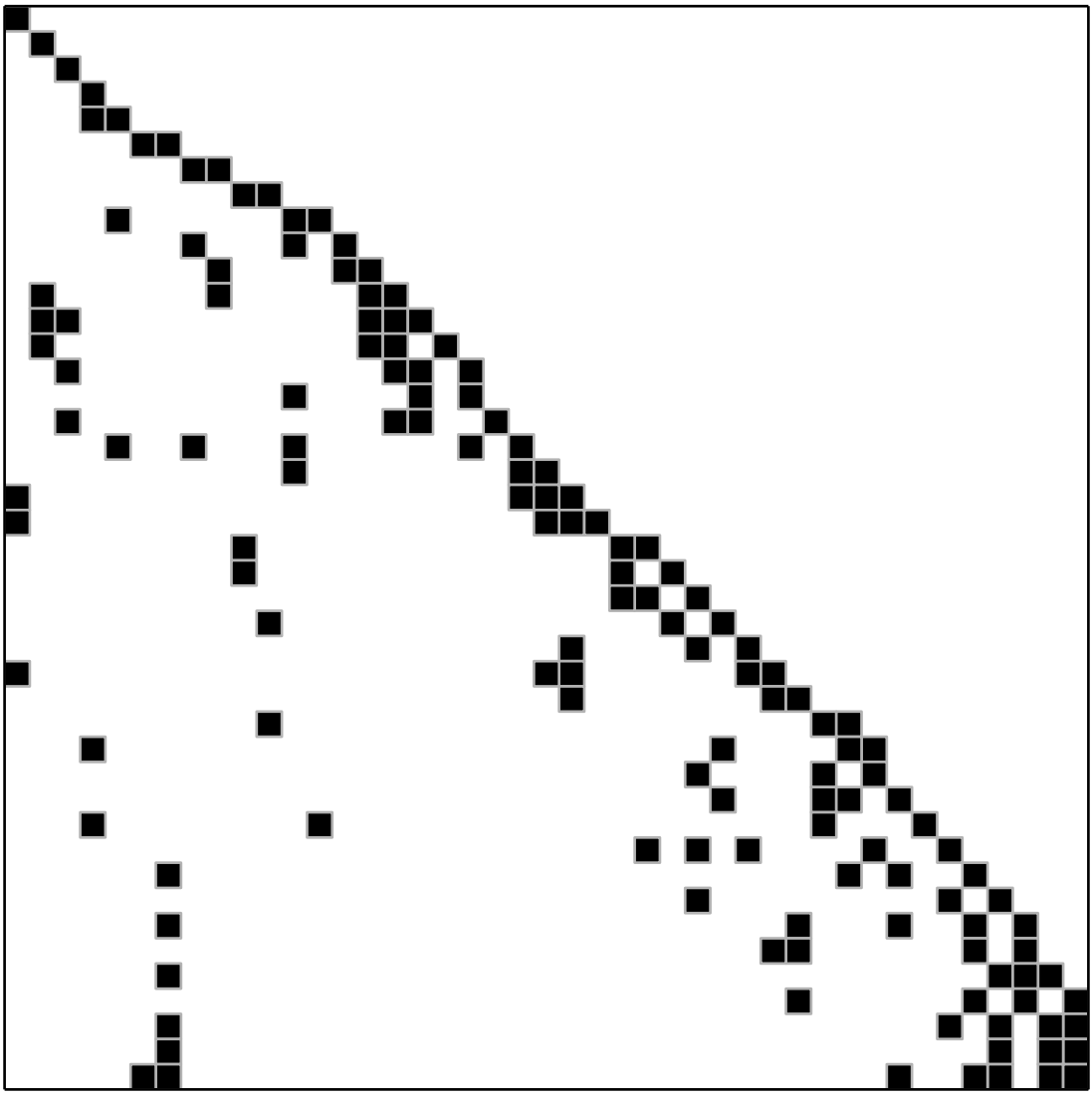


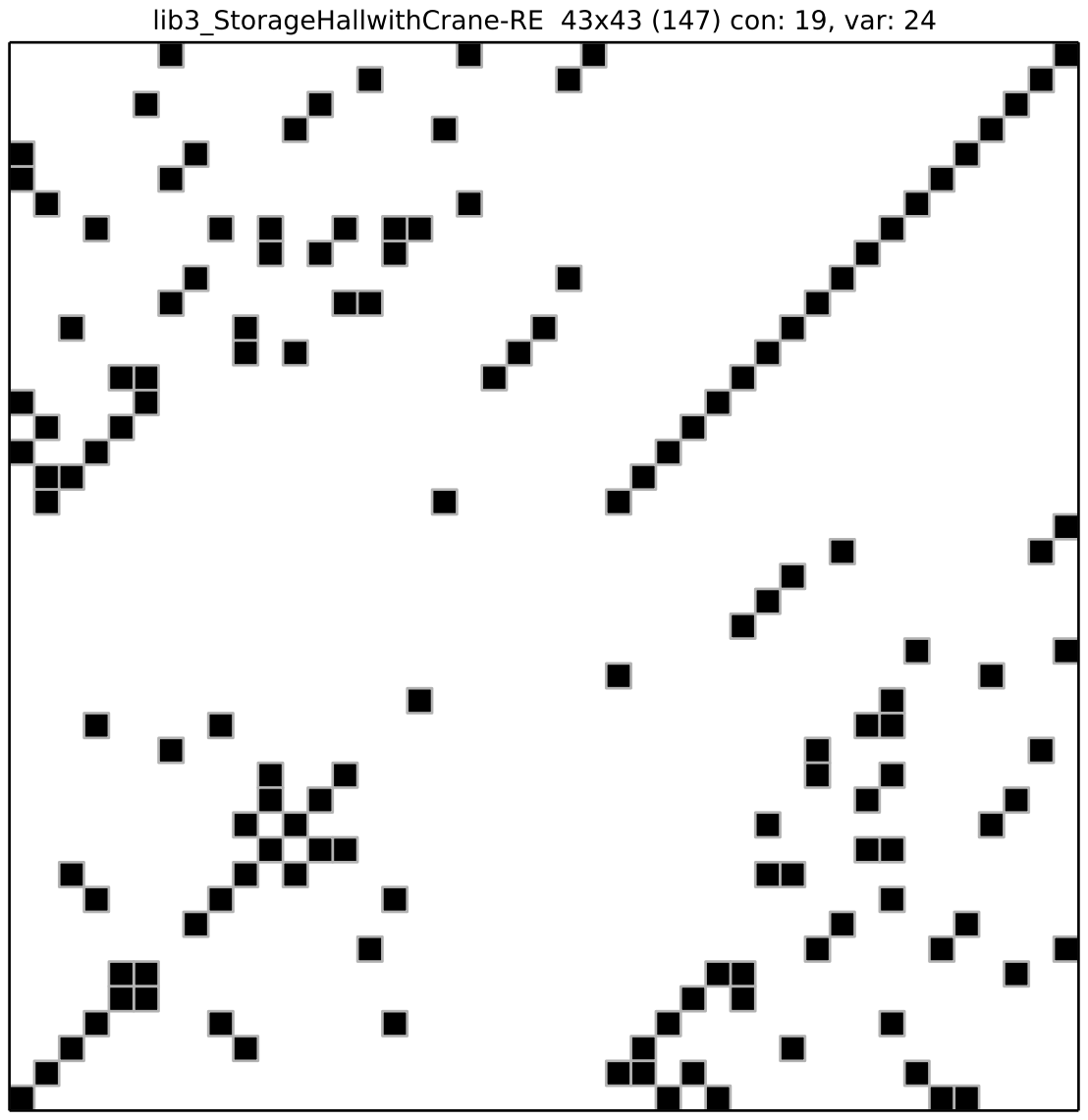
lib3_StorageHallwithCrane-09 43x43 (147) con: 19, var: 24

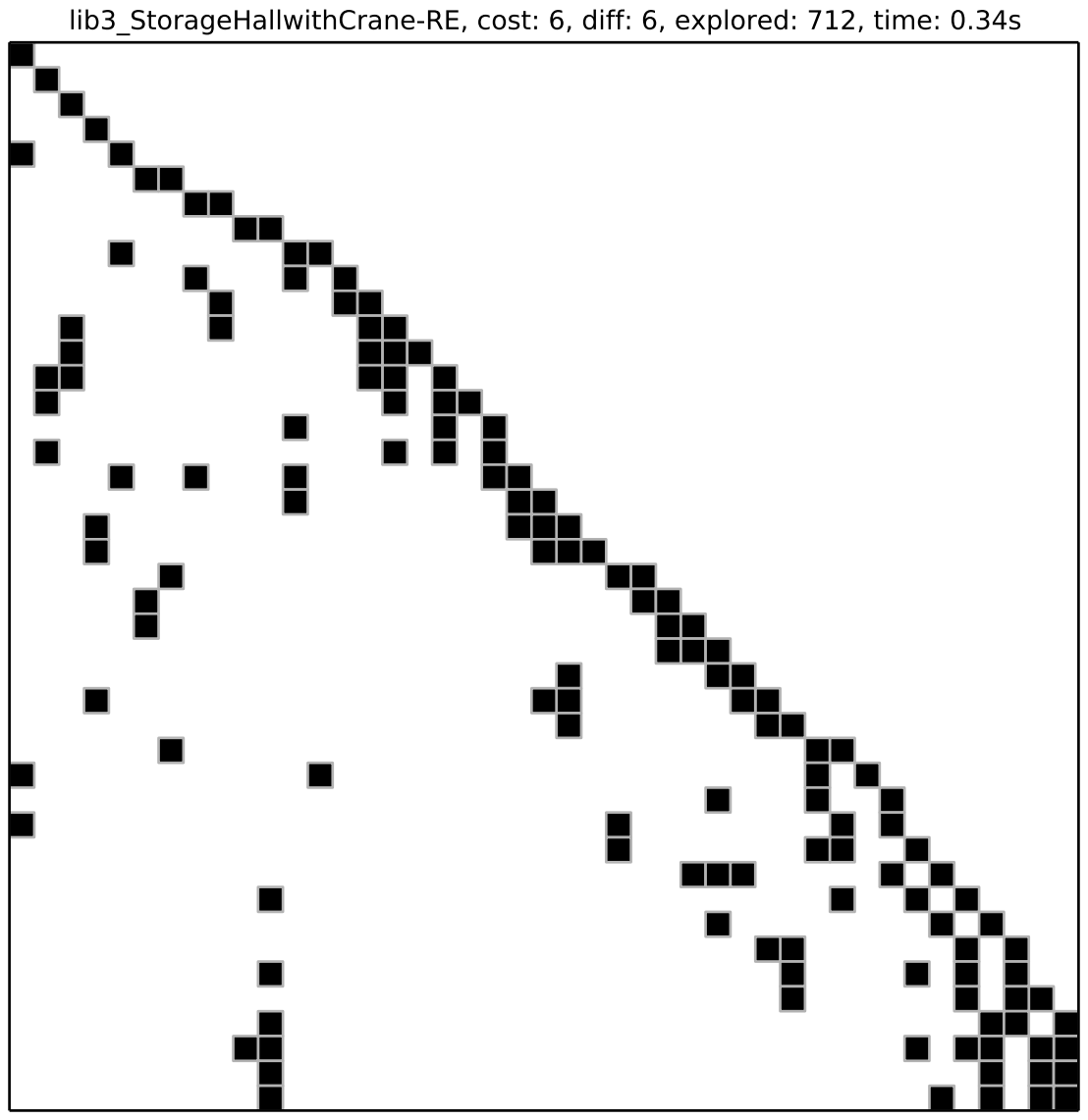



lib3_StorageHallwithCrane-09, cost: 6, diff: 6, explored: 691, time: 0.30s

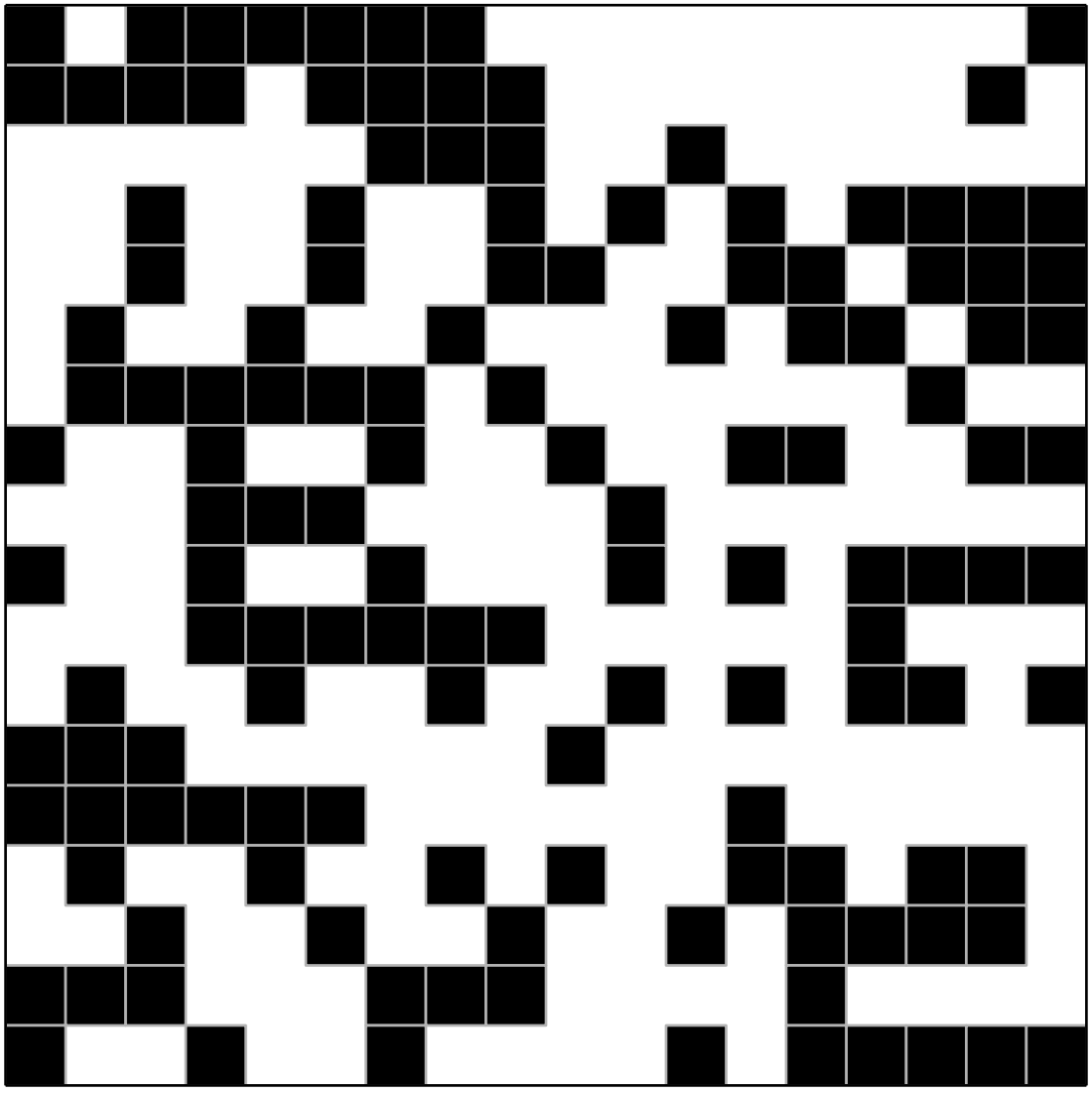

lib3_StorageHallwithCrane-IN 43x43 (147) con: 19, var: 24

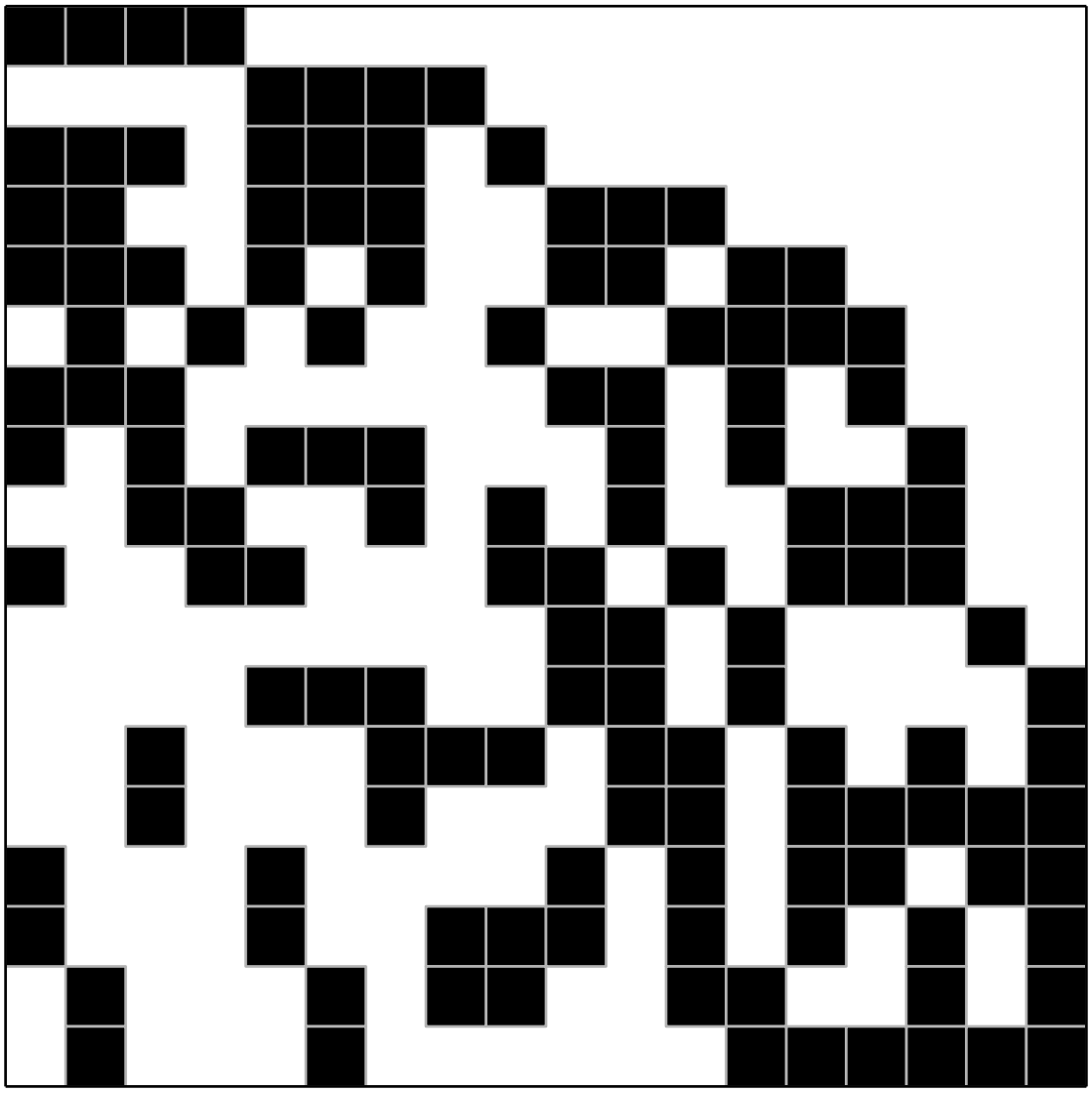

lib3_StorageHallwithCrane-IN, cost: 6, diff: 6, explored: 678, time: 0.28s


lib3_StorageHallwithCrane-RE 43x43 (147) con: 19, var: 24

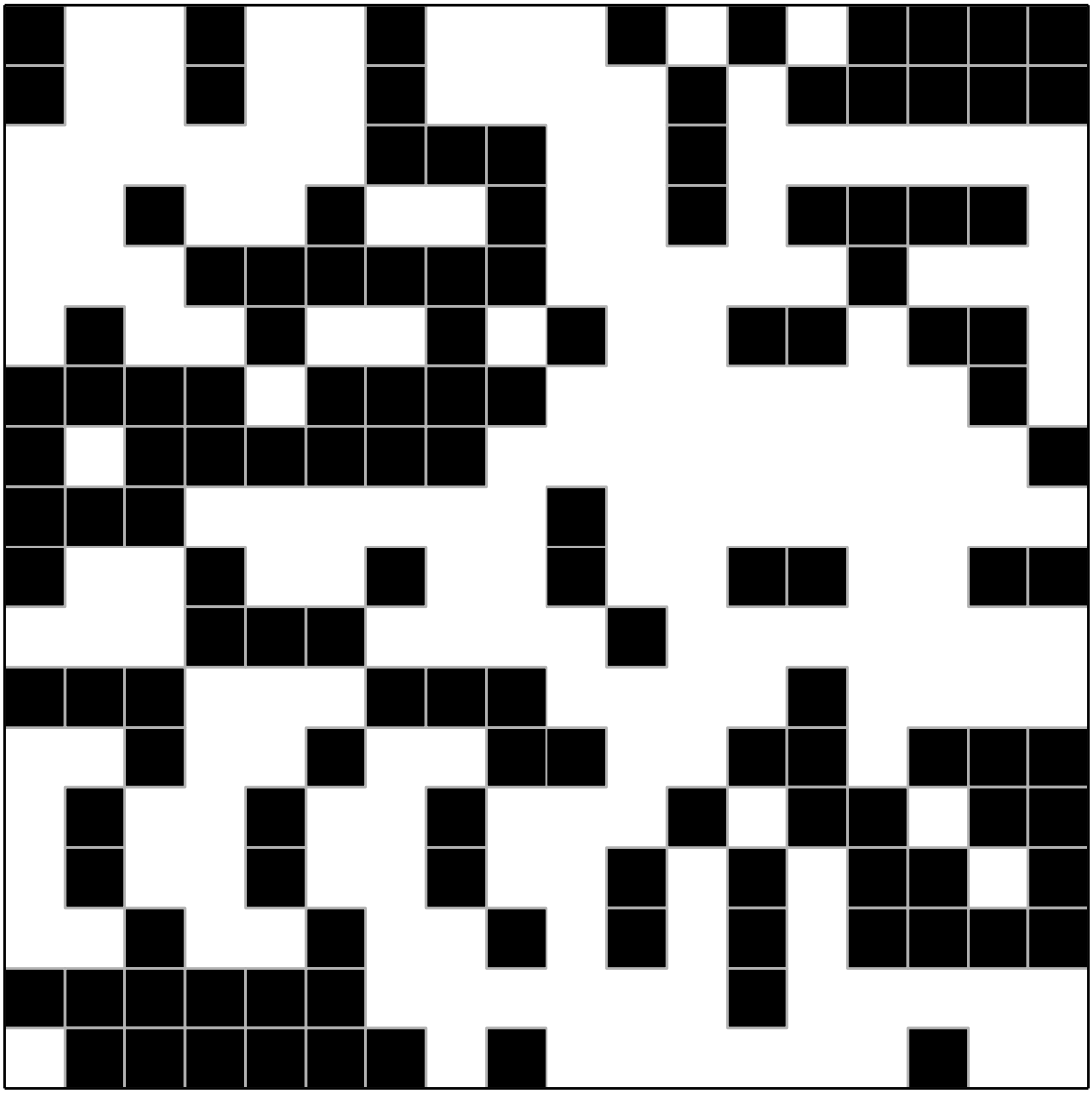

lib3_StorageHallwithCrane-RE, cost: 6, diff: 6, explored: 712, time: 0.34s

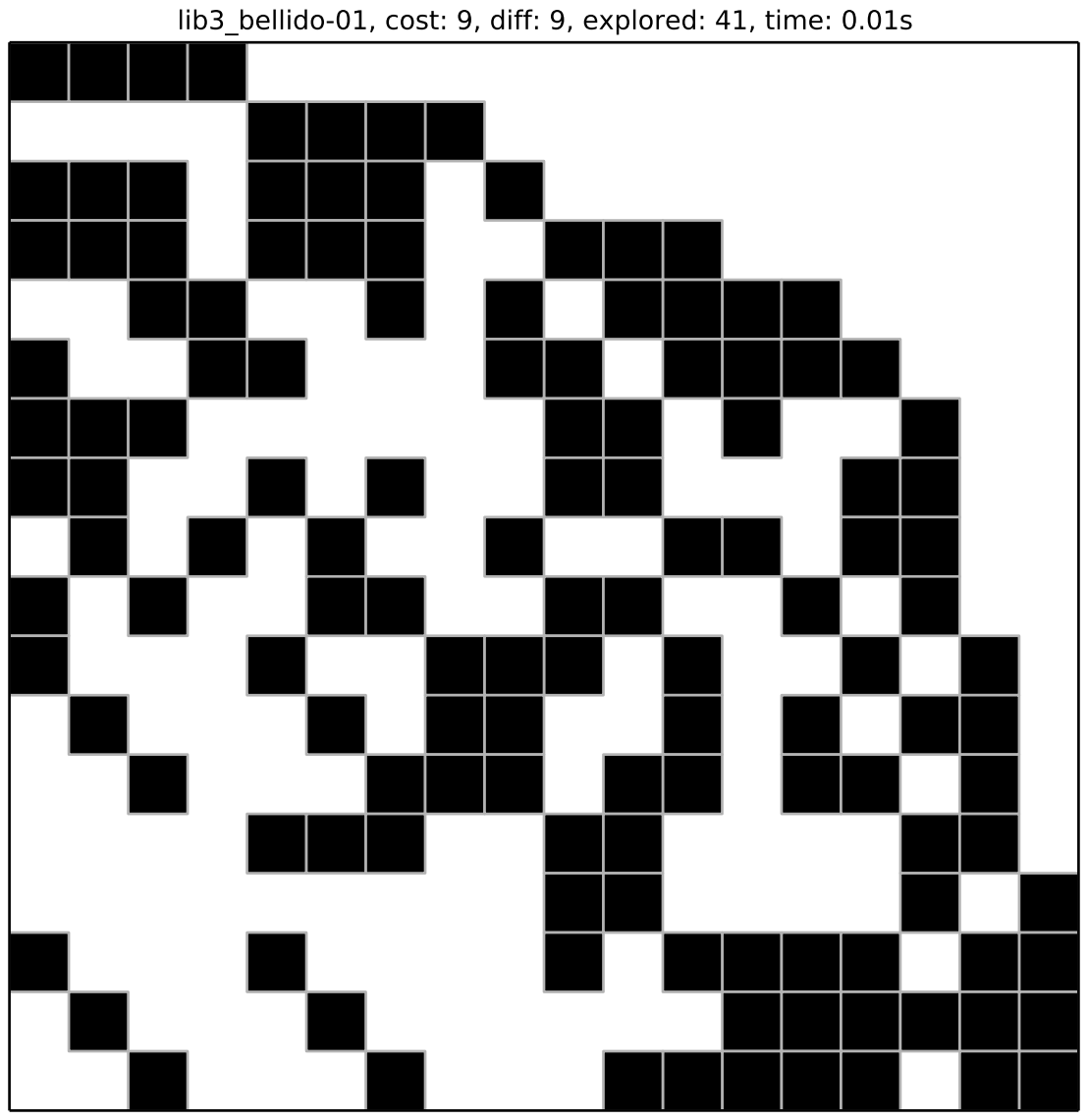
lib3_bellido-00 18x18 (134) con: 9, var: 9



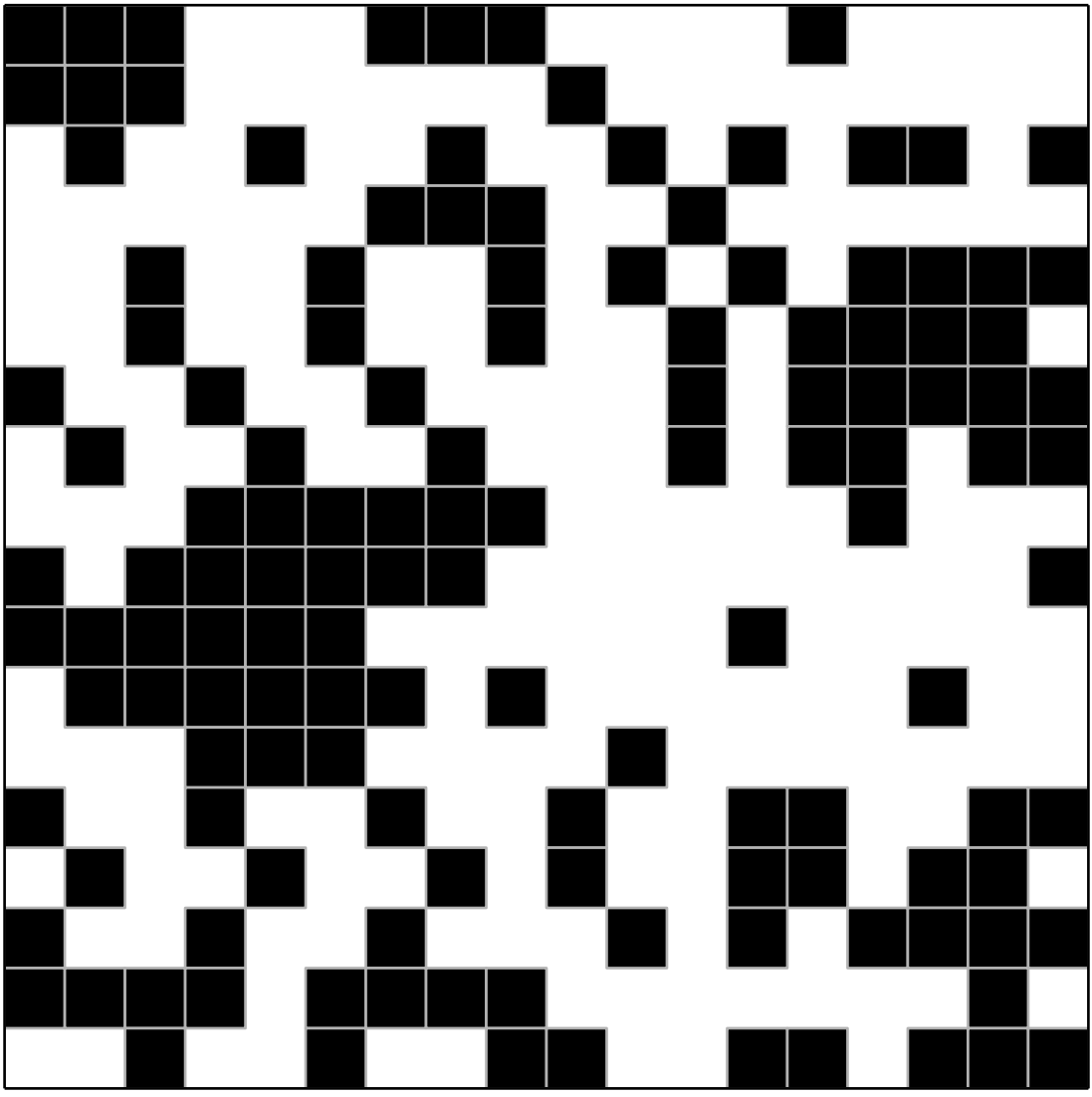

lib3_bellido-00, cost: 9, diff: 9, explored: 43, time: 0.01s

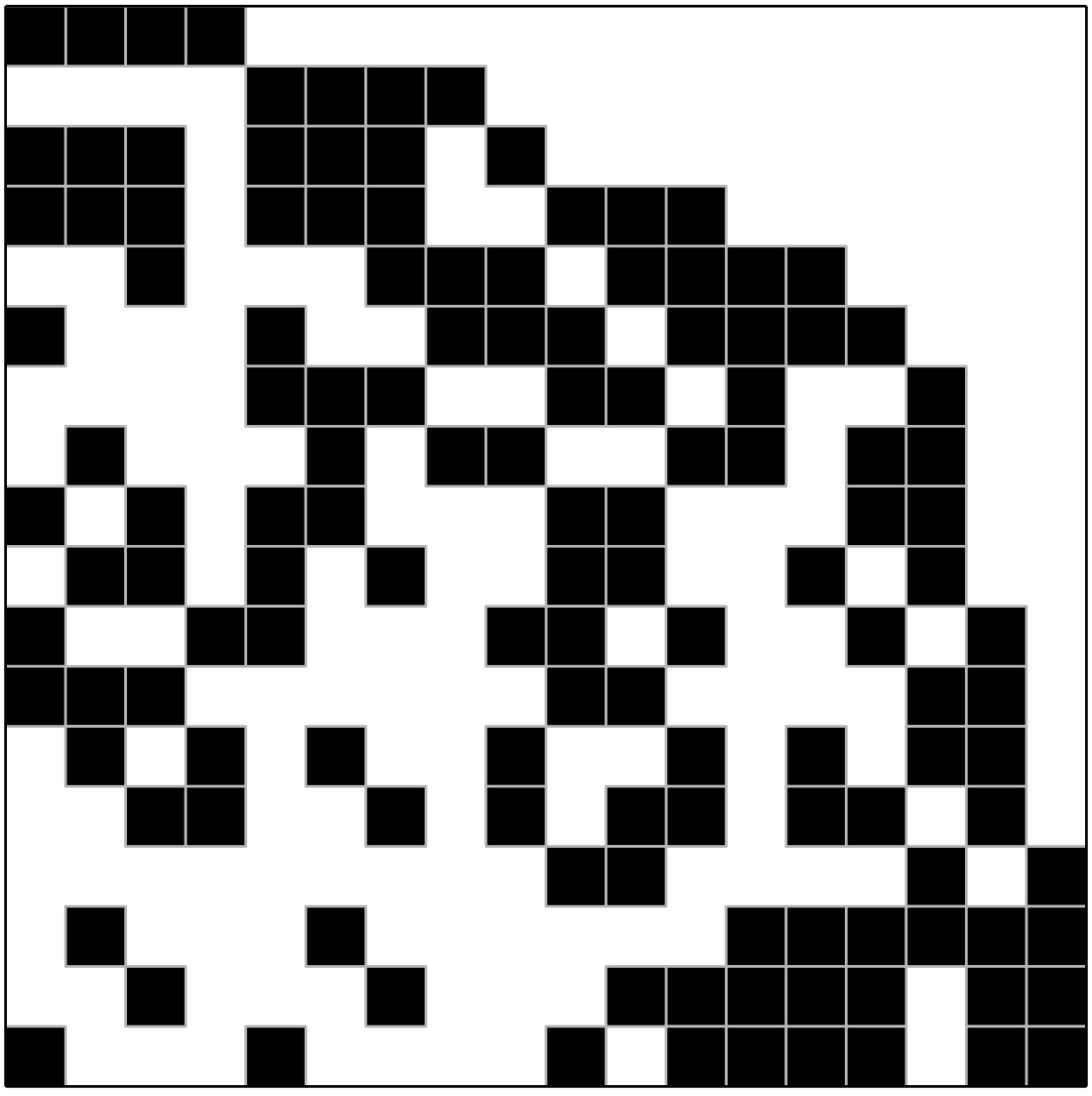
lib3_bellido-01 18x18 (134) con: 9, var: 9



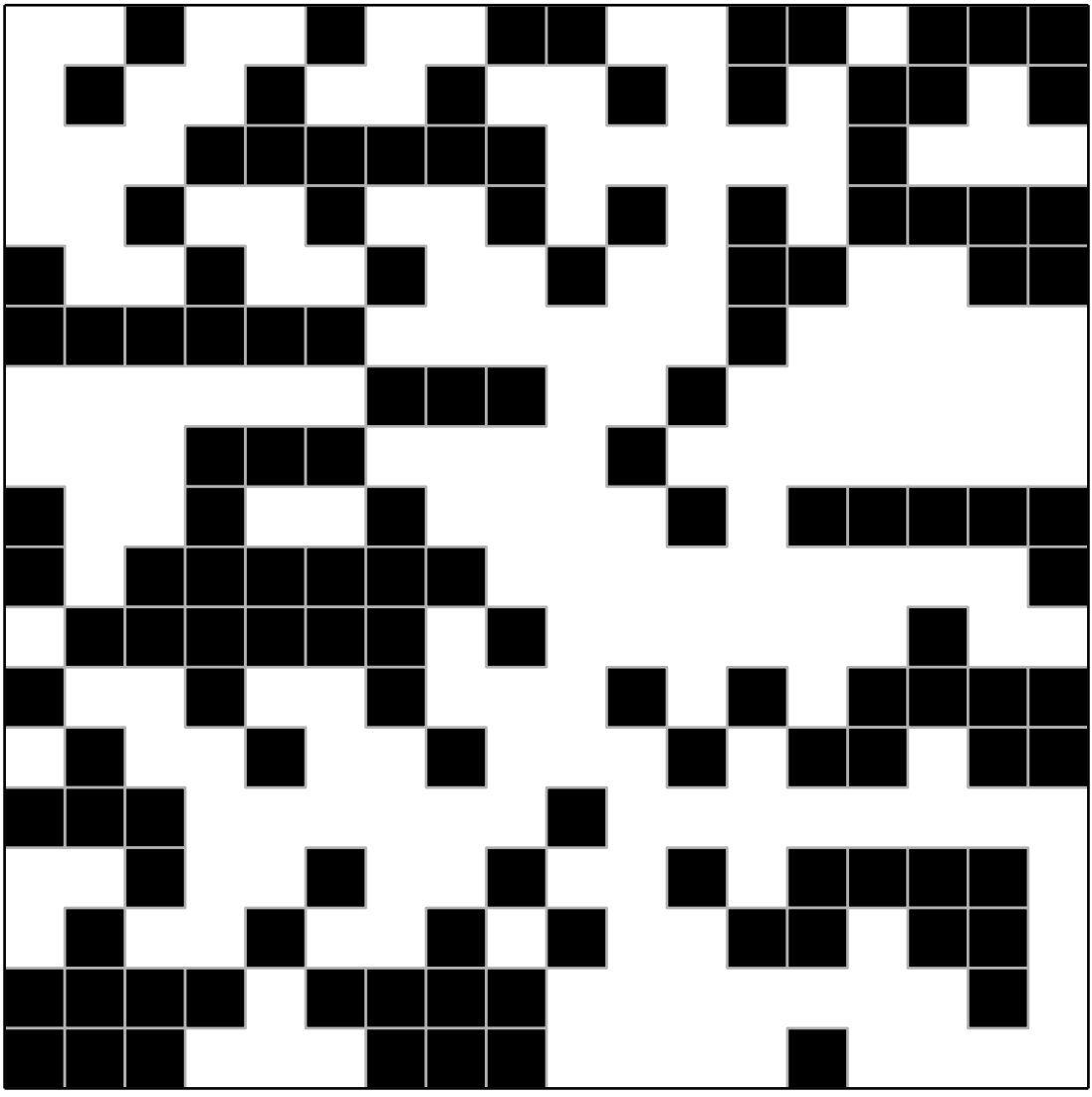

lib3_bellido-01, cost: 9, diff: 9, explored: 41, time: 0.01s

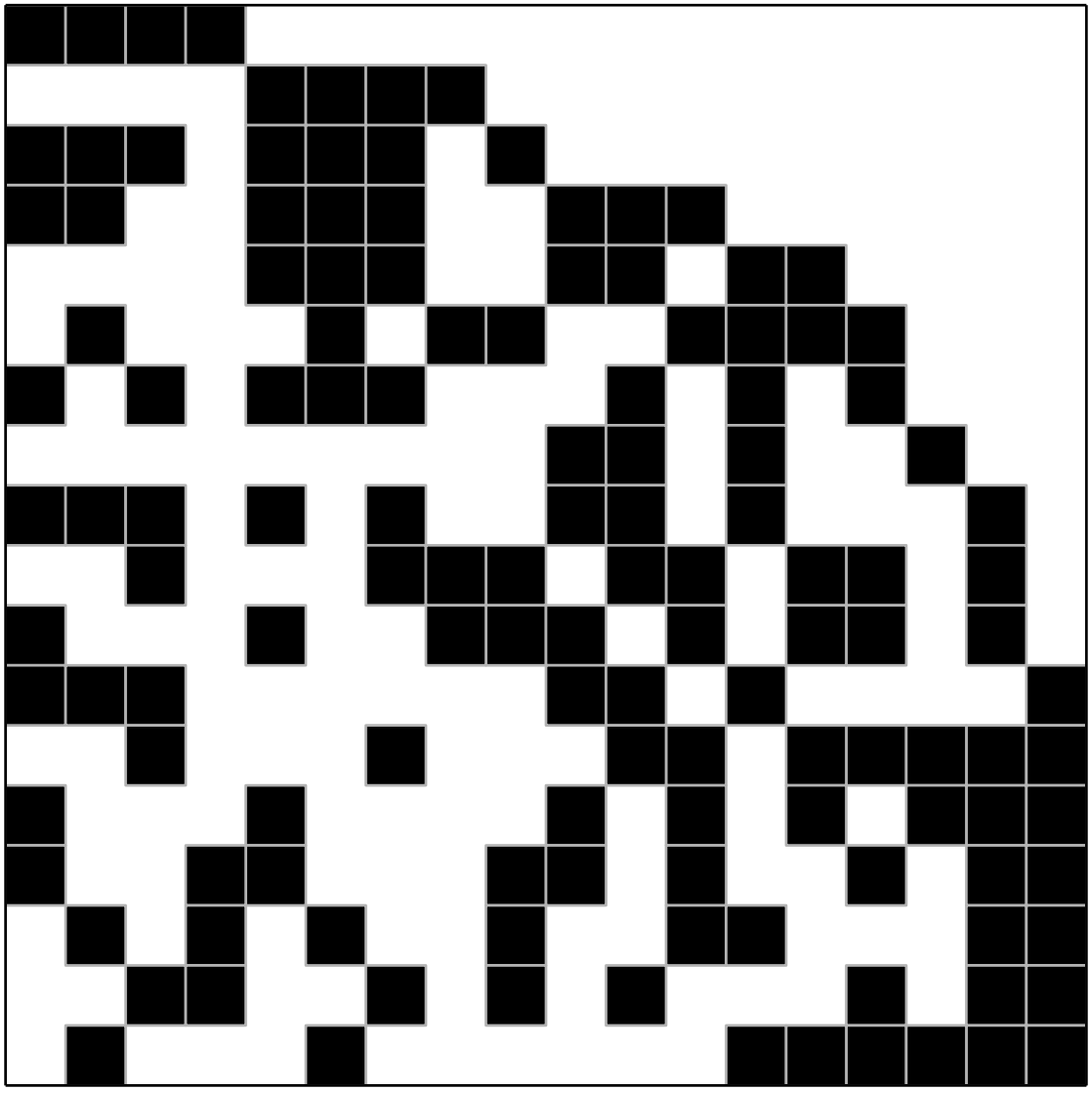
lib3_bellido-02 18x18 (134) con: 9, var: 9



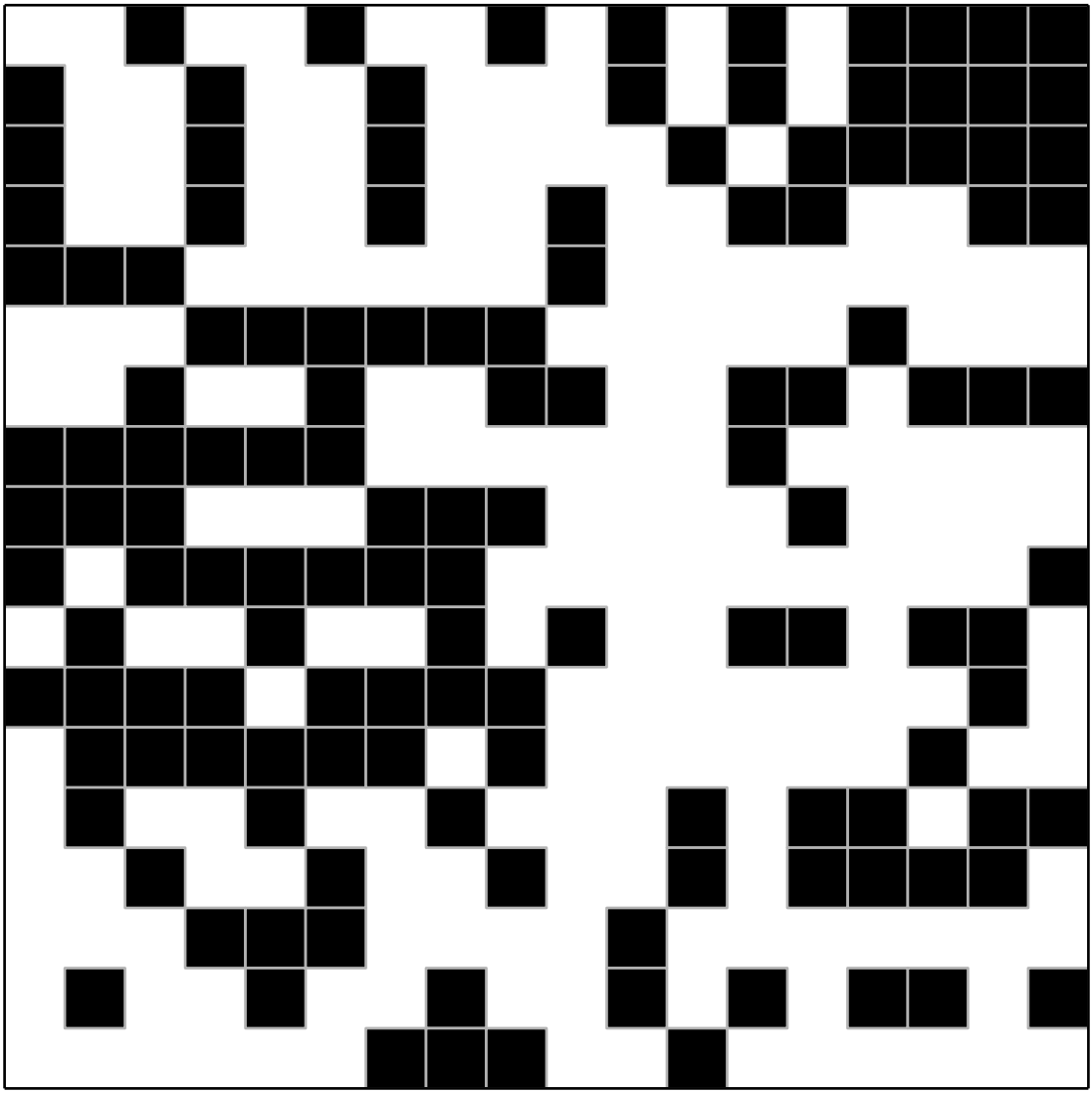

lib3_bellido-02, cost: 9, diff: 9, explored: 41, time: 0.01s

lib3_bellido-03 18x18 (134) con: 9, var: 9

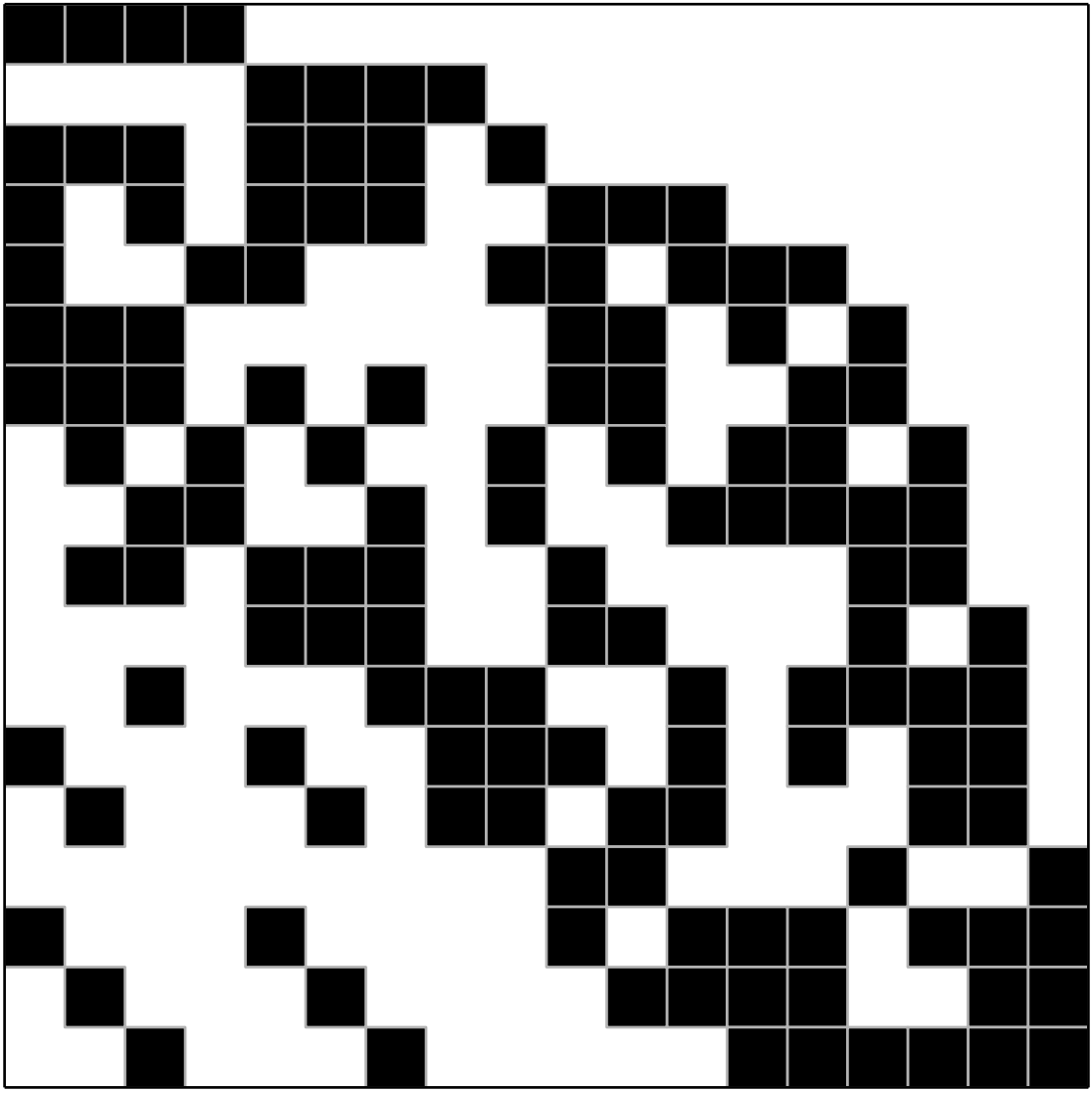



lib3_bellido-03, cost: 9, diff: 9, explored: 43, time: 0.01s

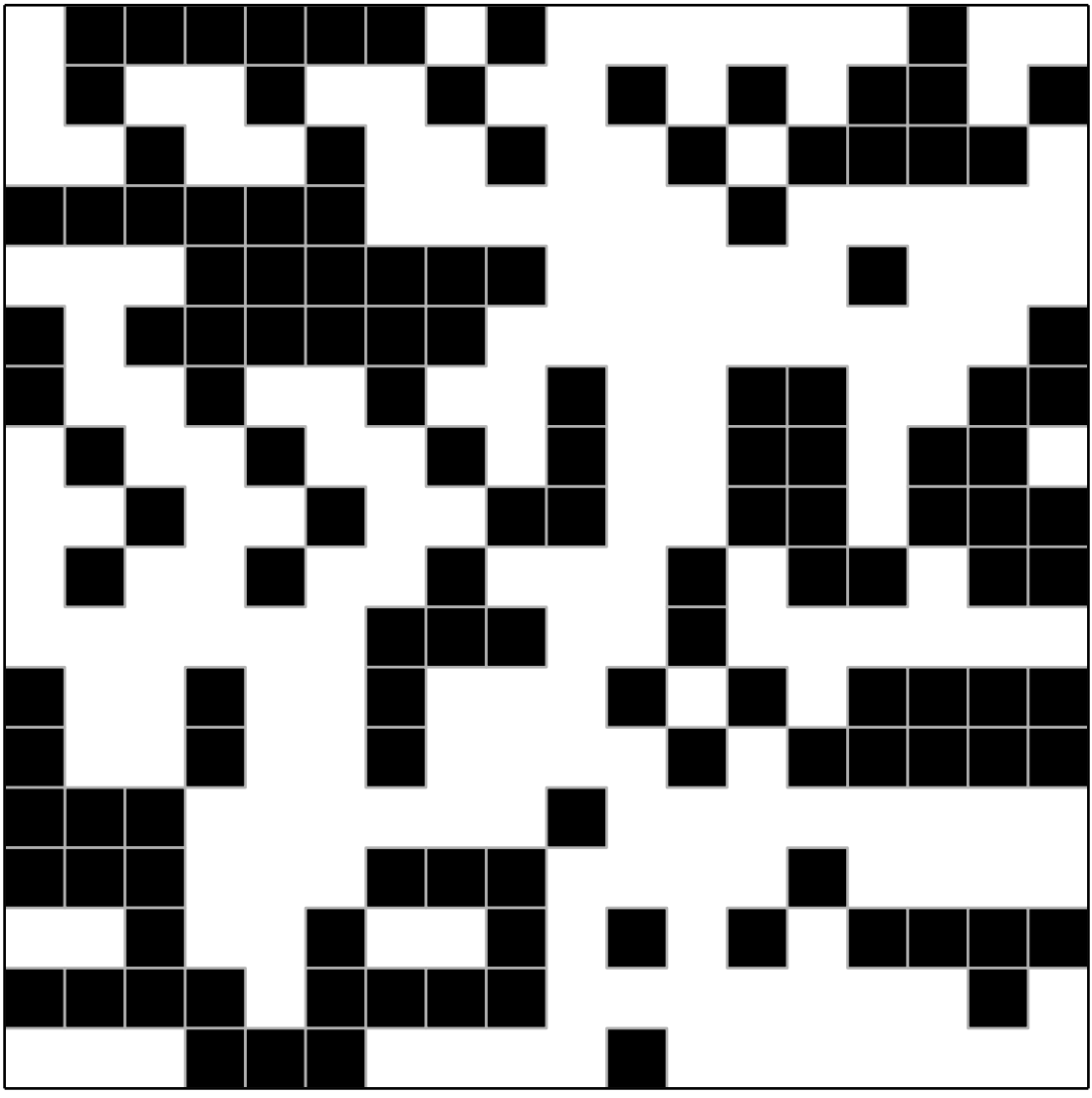
lib3_bellido-04 18x18 (134) con: 9, var: 9

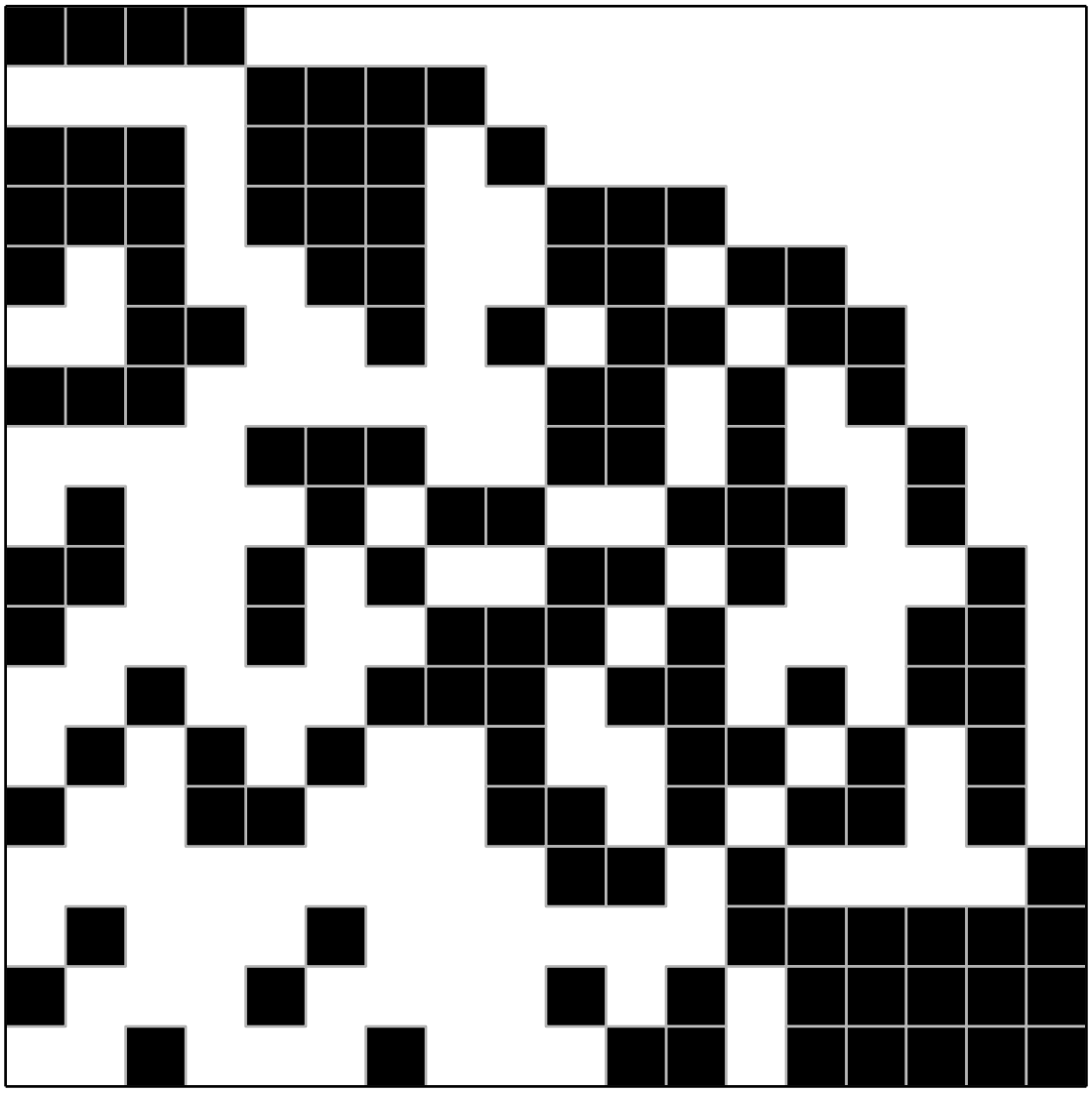


lib3_bellido-04, cost: 9, diff: 9, explored: 43, time: 0.01s



lib3_bellido-05 18x18 (134) con: 9, var: 9

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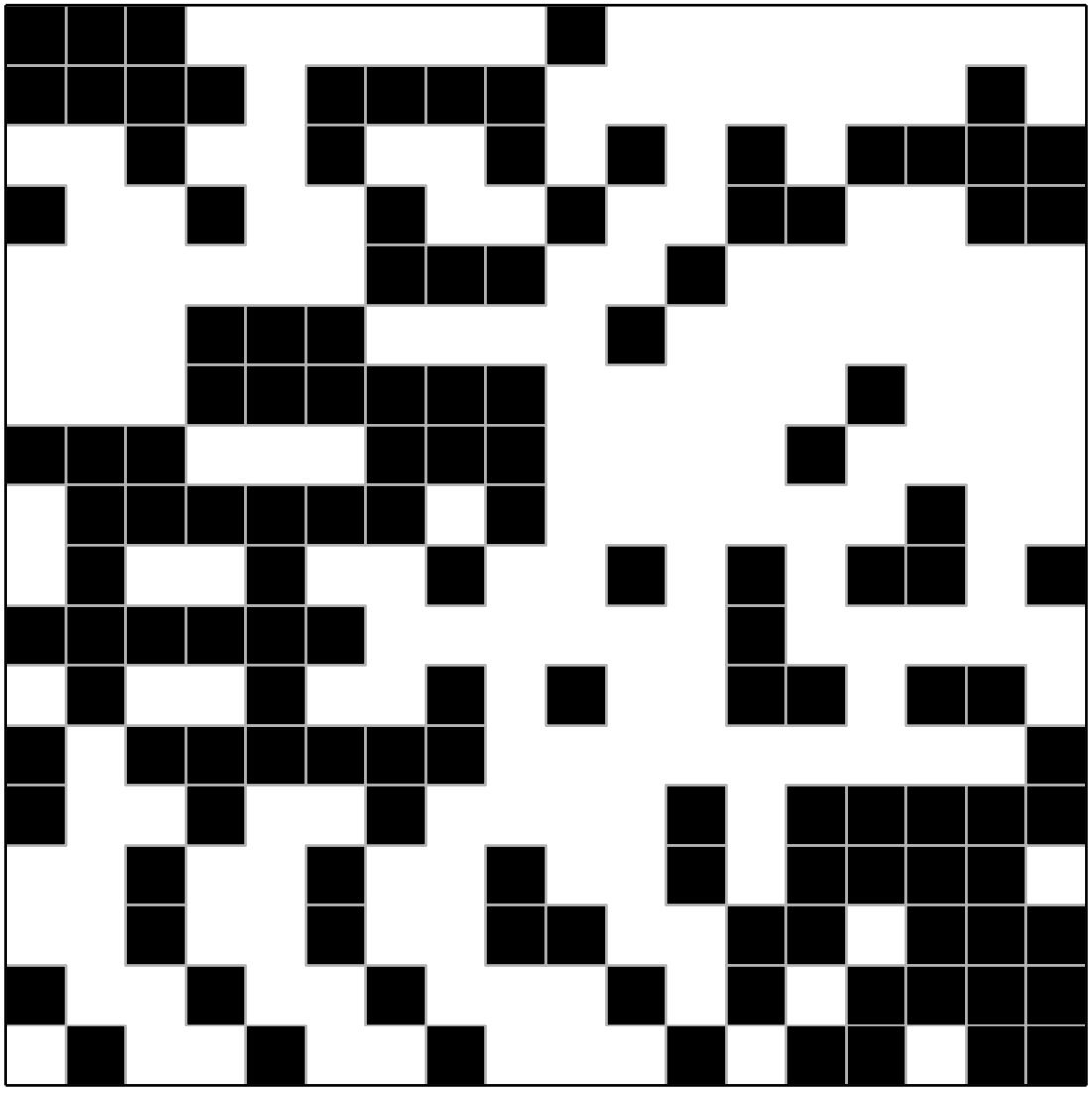
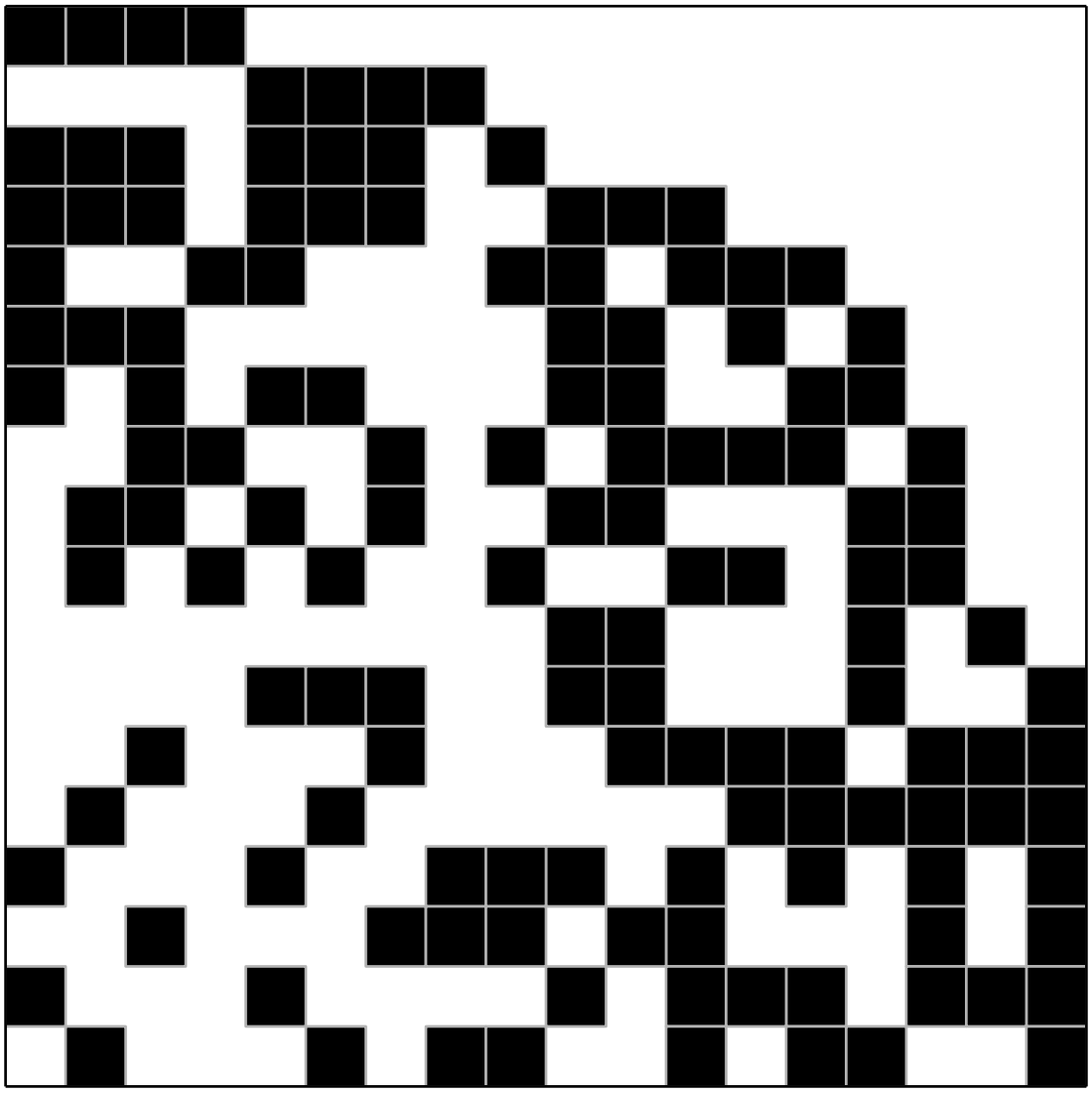
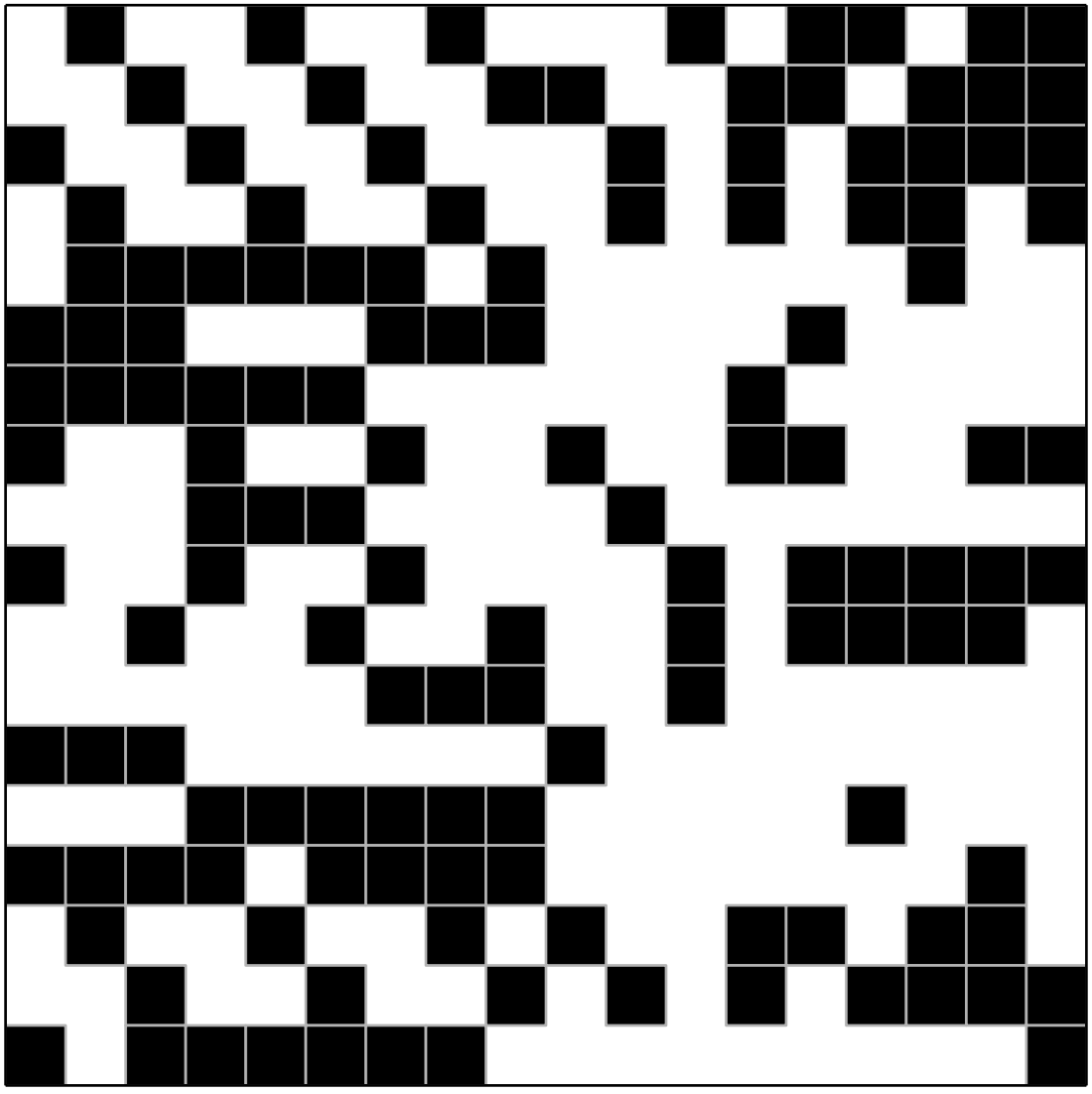
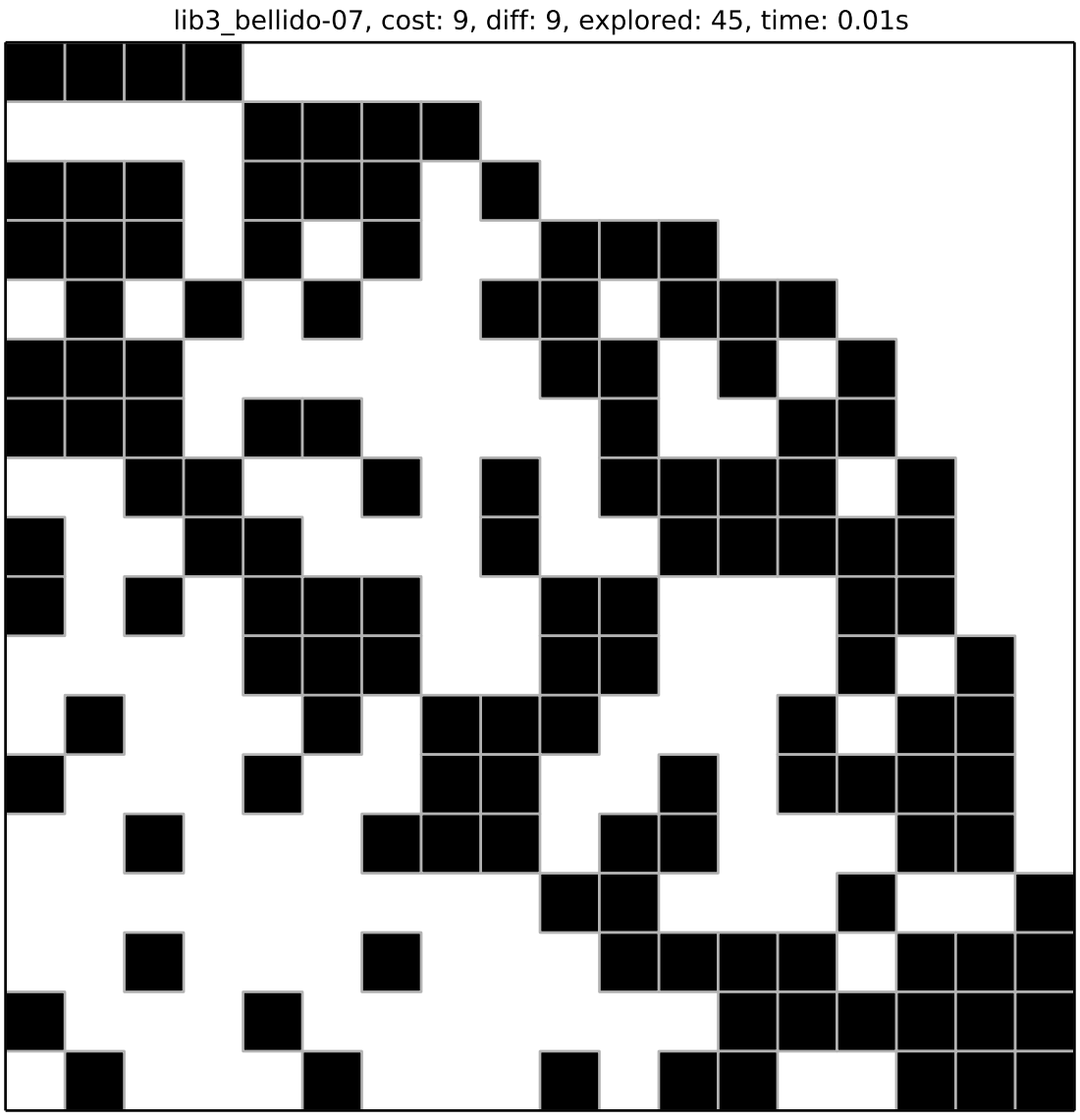
lib3_bellido-06 18x18 (134) con: 9, var: 9



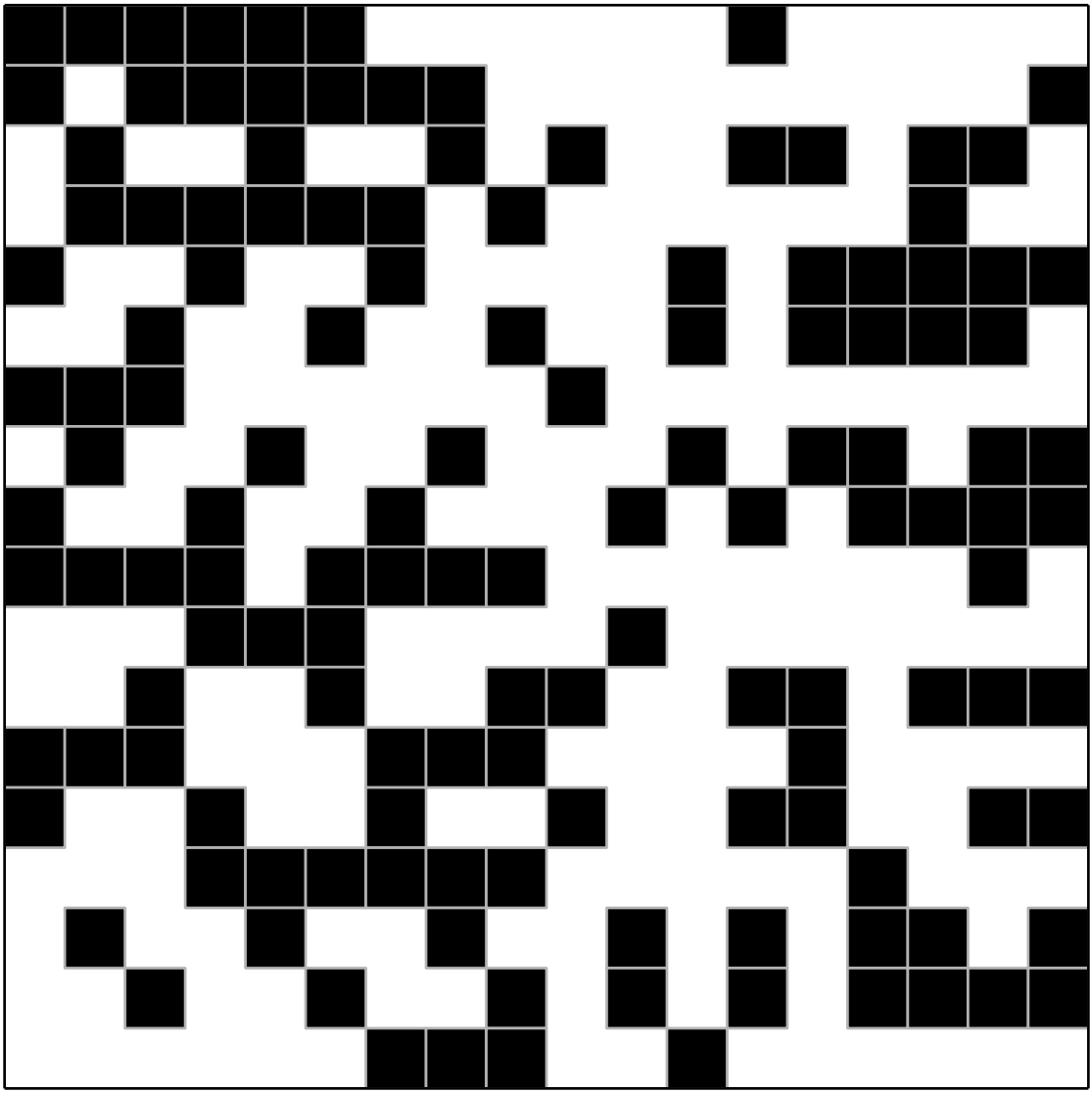

lib3_bellido-06, cost: 9, diff: 9, explored: 41, time: 0.01s

lib3_bellido-07 18x18 (134) con: 9, var: 9

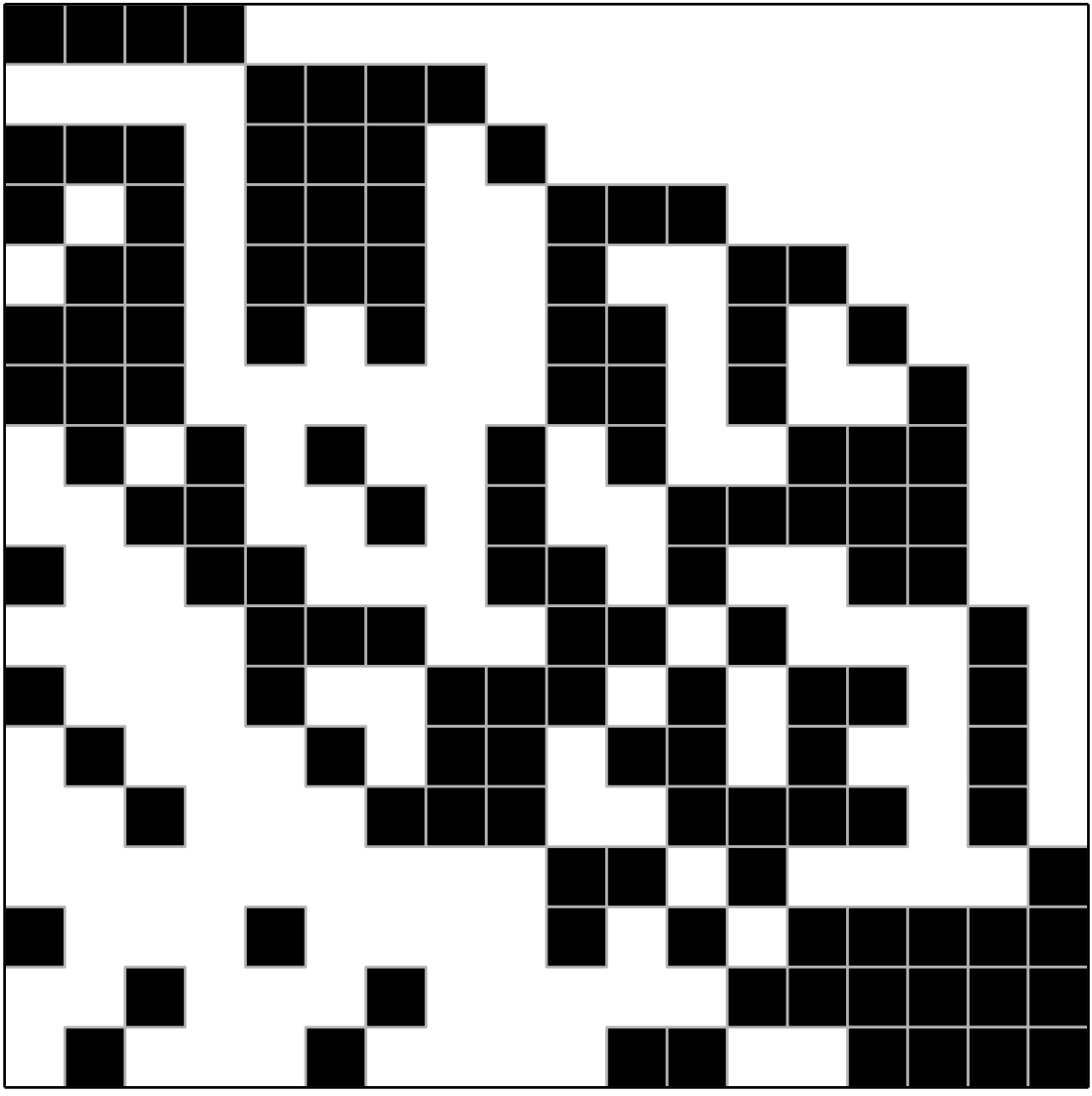



lib3_bellido-07, cost: 9, diff: 9, explored: 45, time: 0.01s

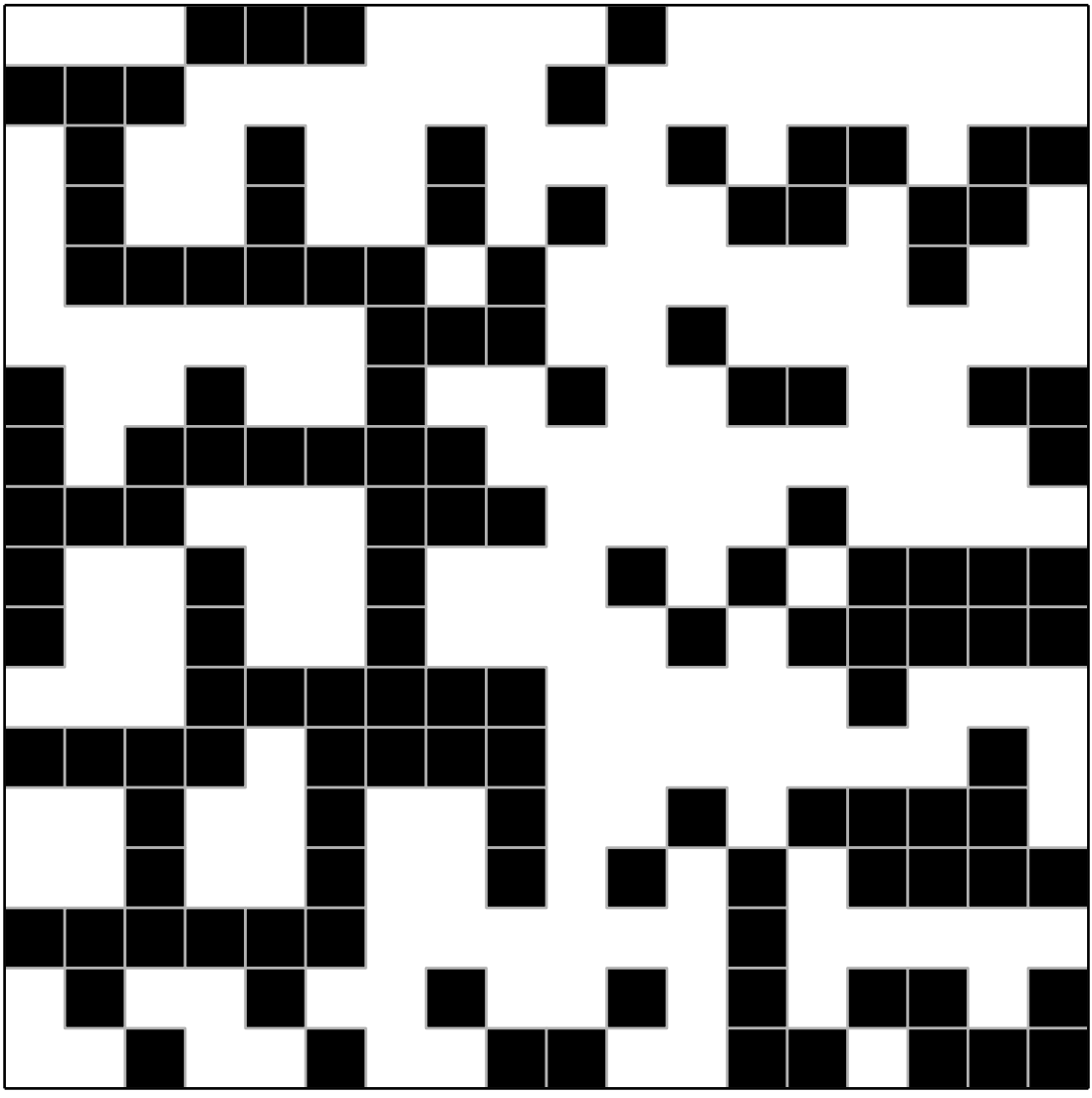
lib3_bellido-08 18x18 (134) con: 9, var: 9

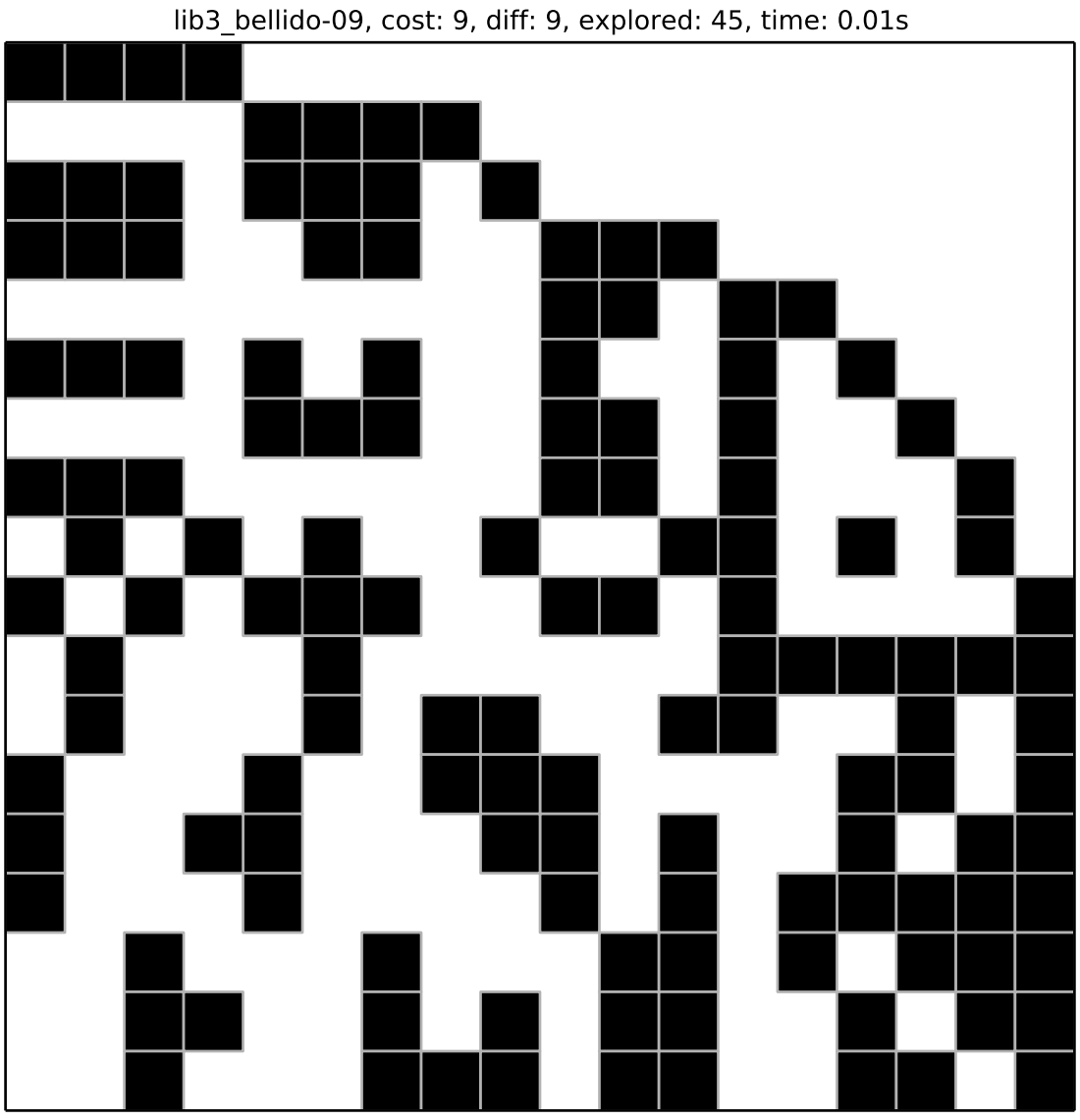


lib3_bellido-08, cost: 9, diff: 9, explored: 43, time: 0.01s



lib3_bellido-09 18x18 (134) con: 9, var: 9

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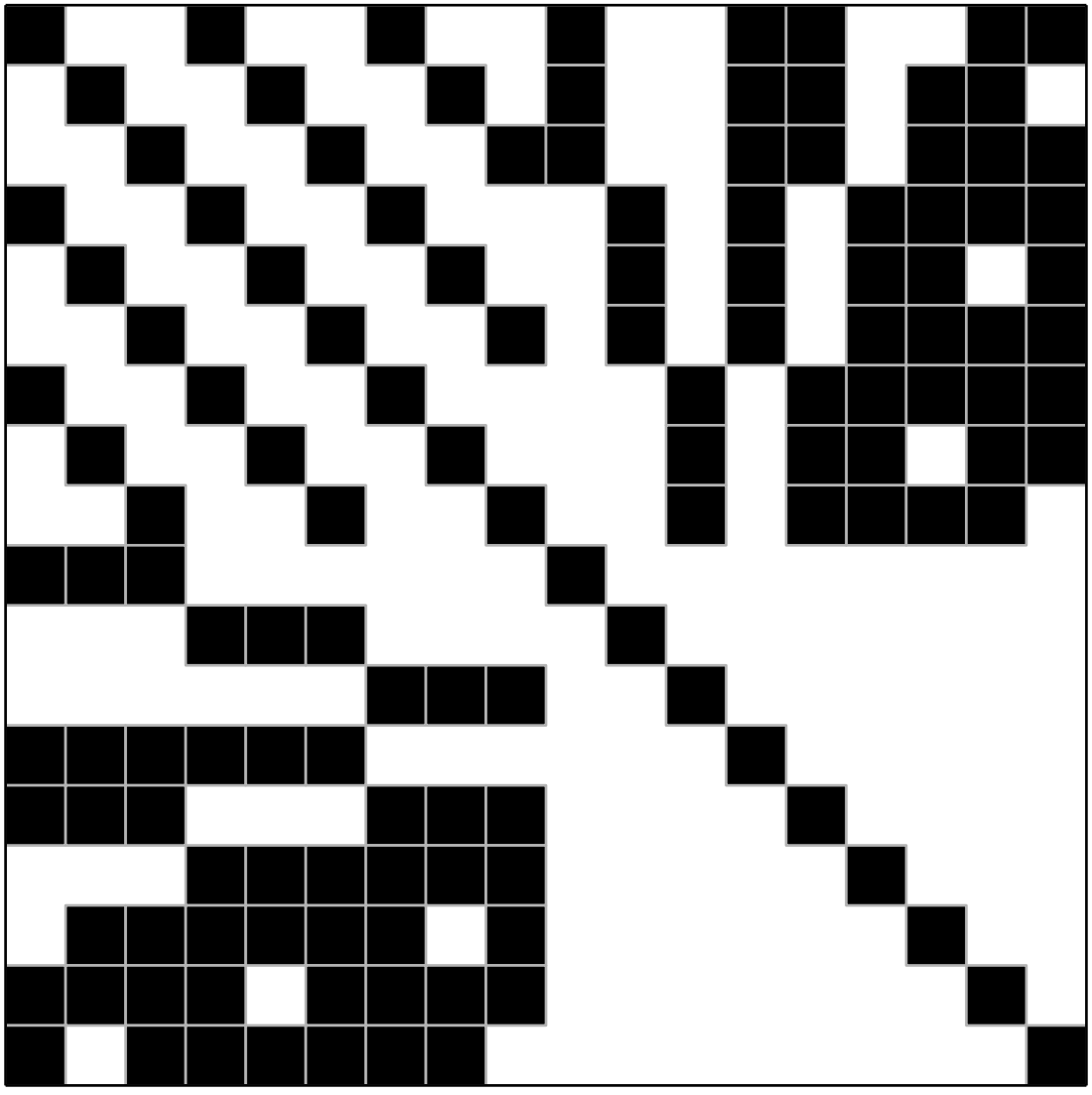
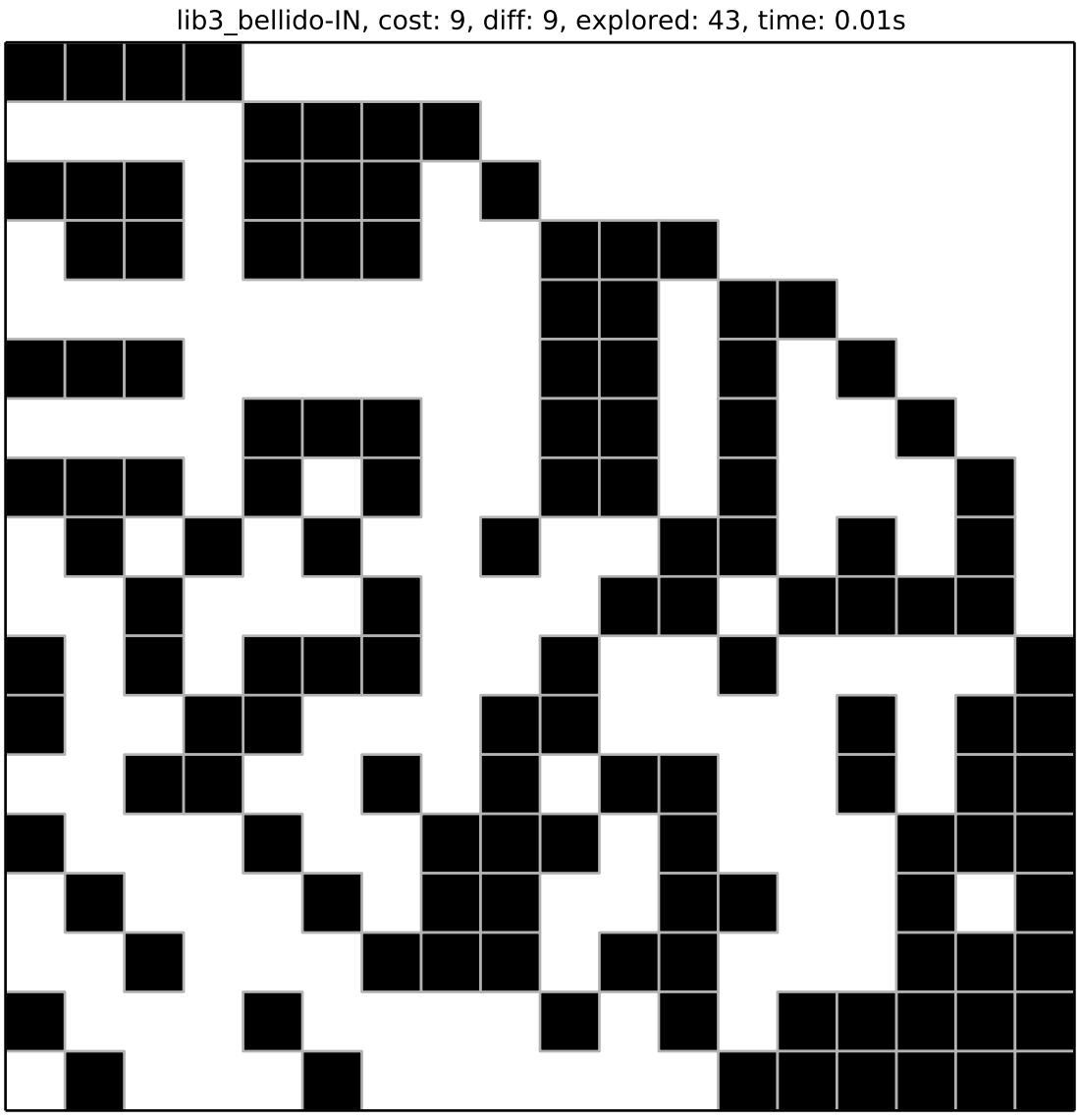
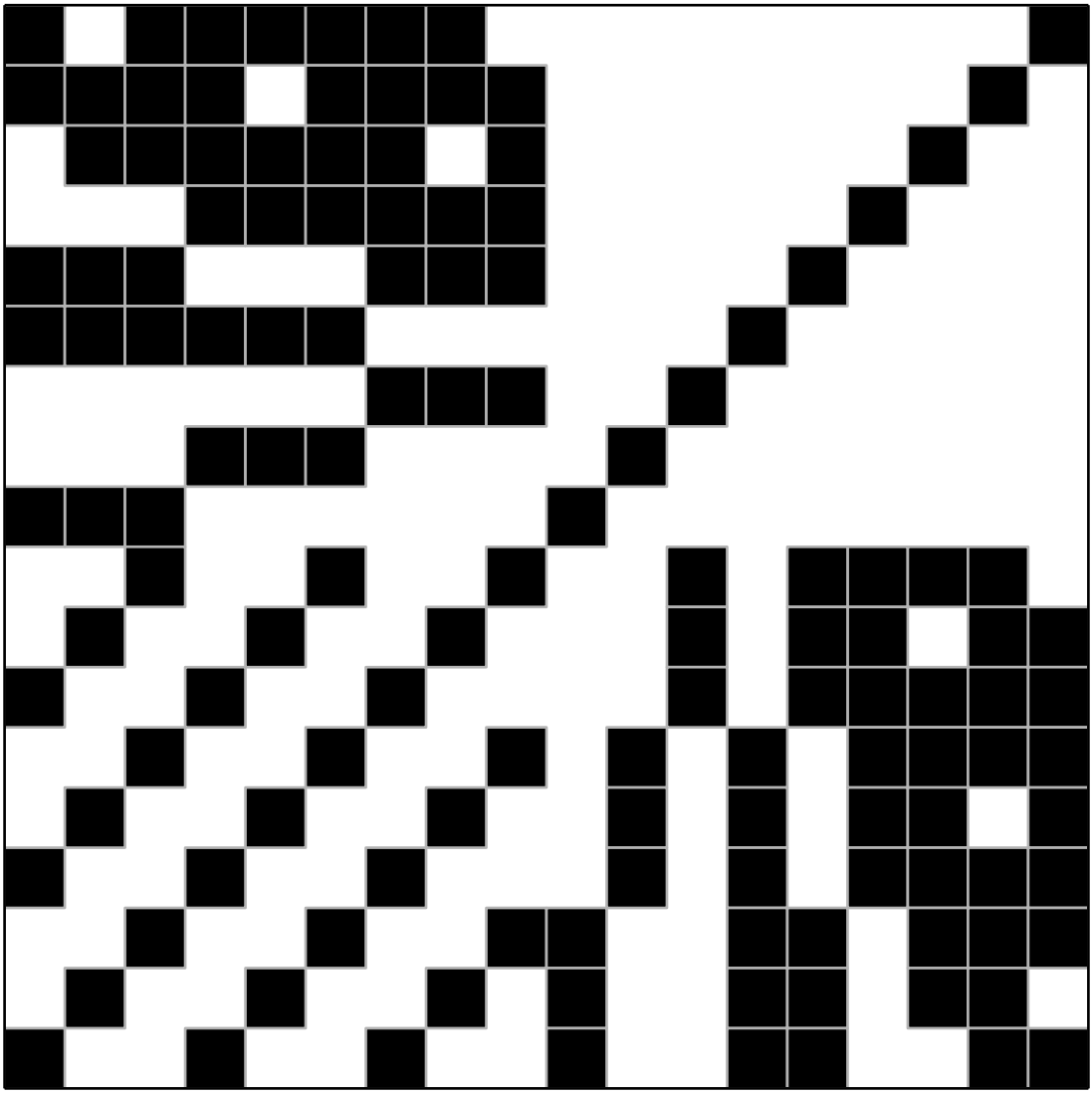
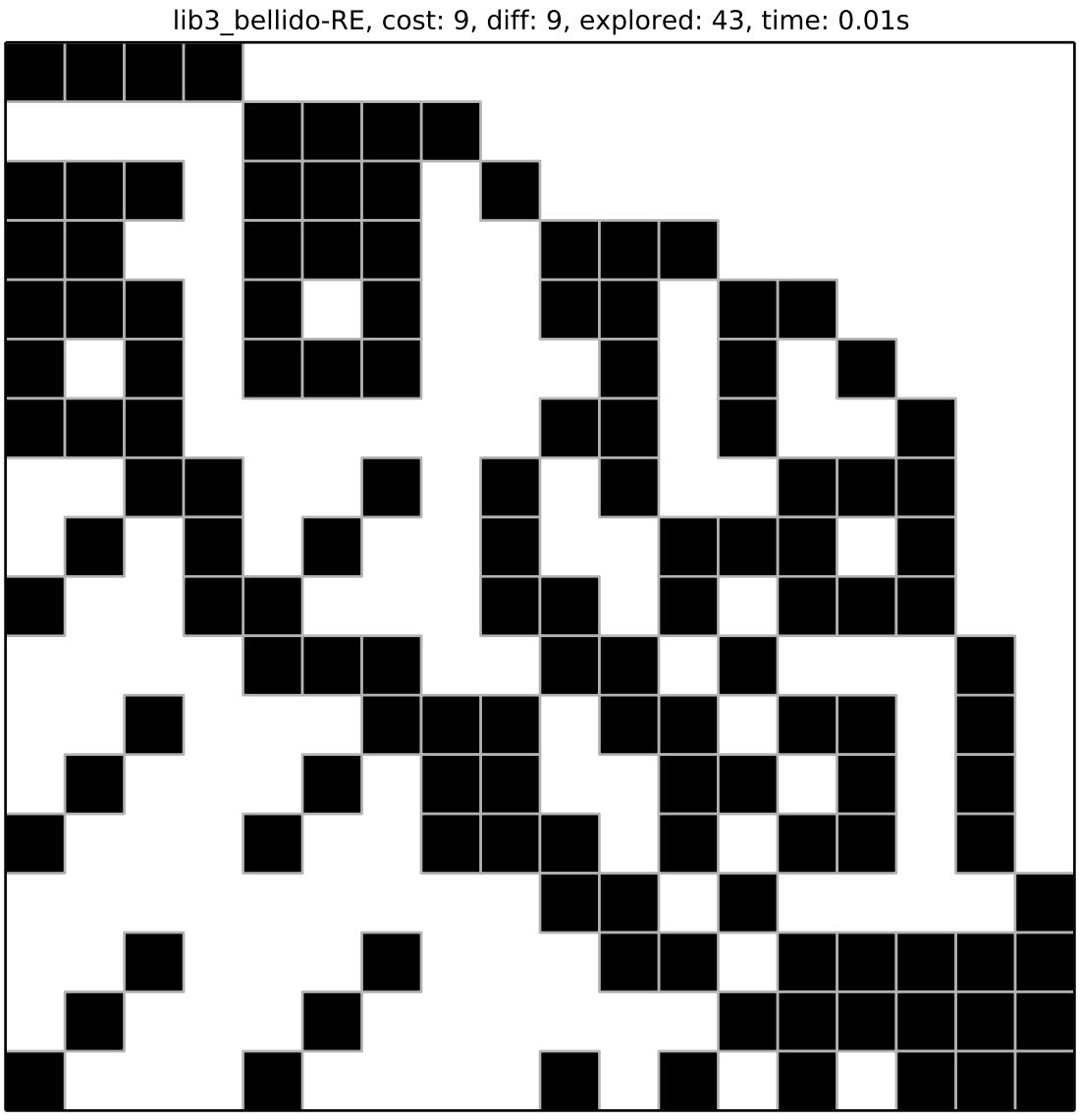
lib3_bellido-IN 18x18 (134) con: 9, var: 9



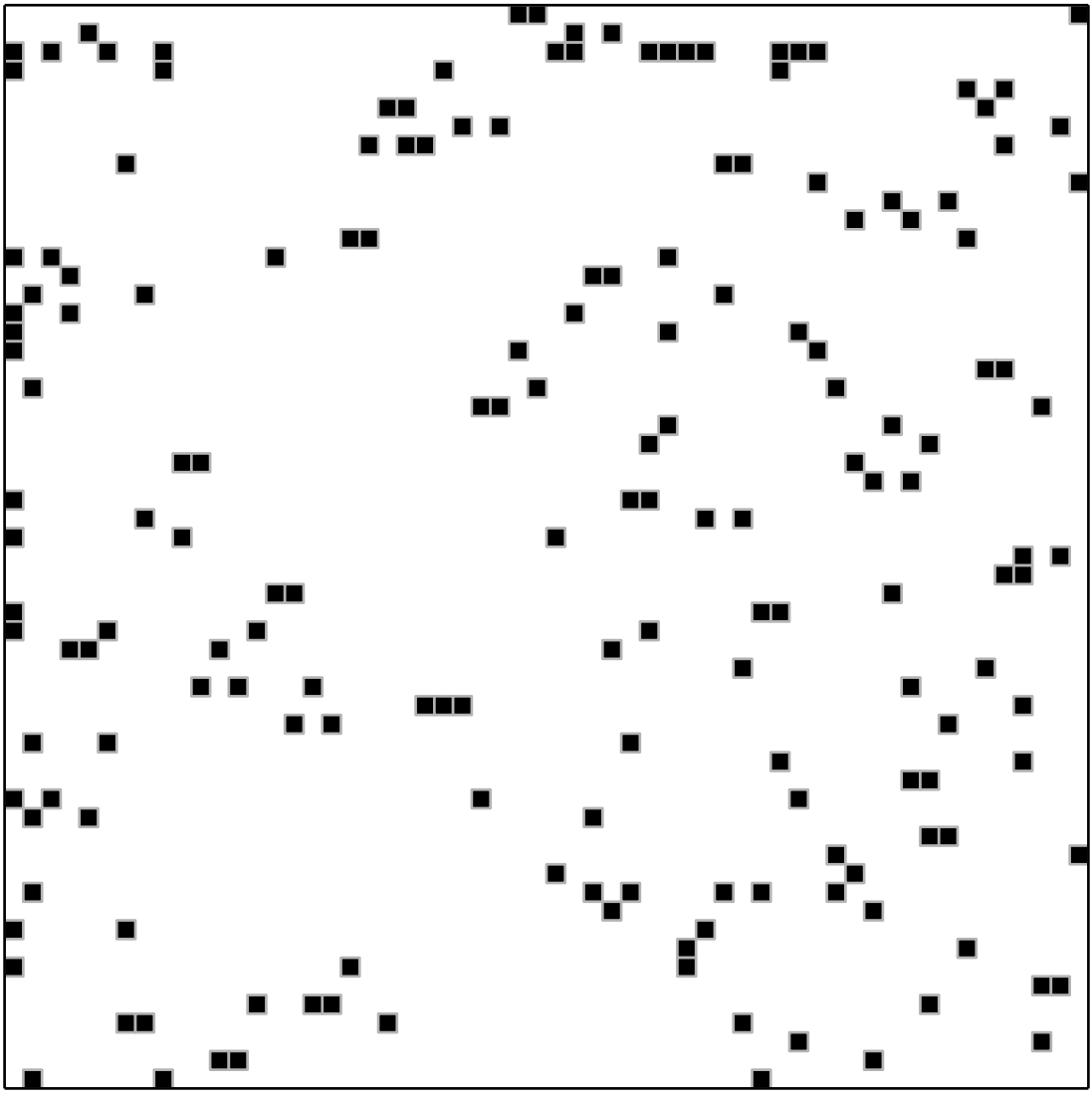

lib3_bellido-IN, cost: 9, diff: 9, explored: 43, time: 0.01s

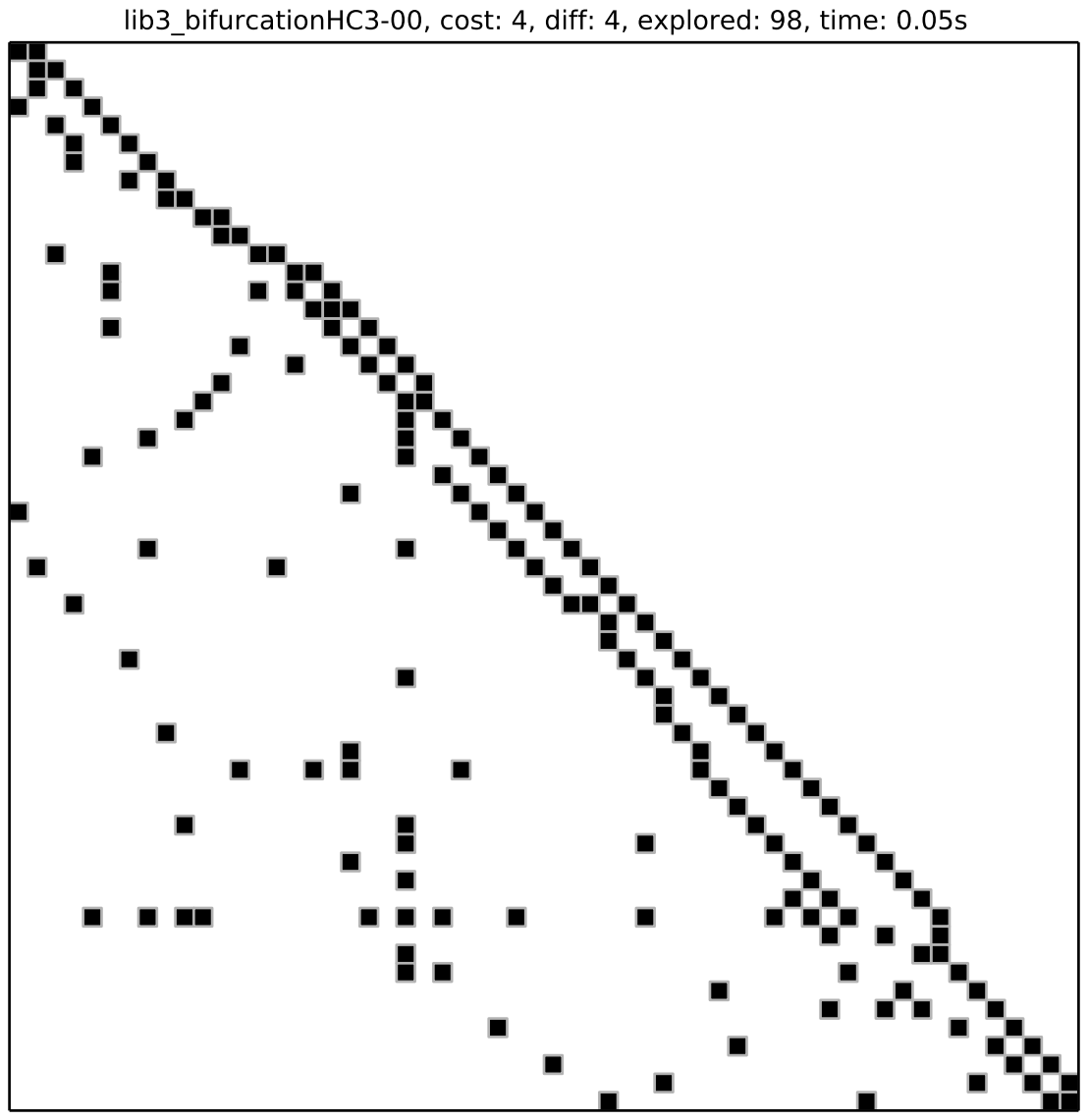
lib3_bellido-RE 18x18 (134) con: 9, var: 9

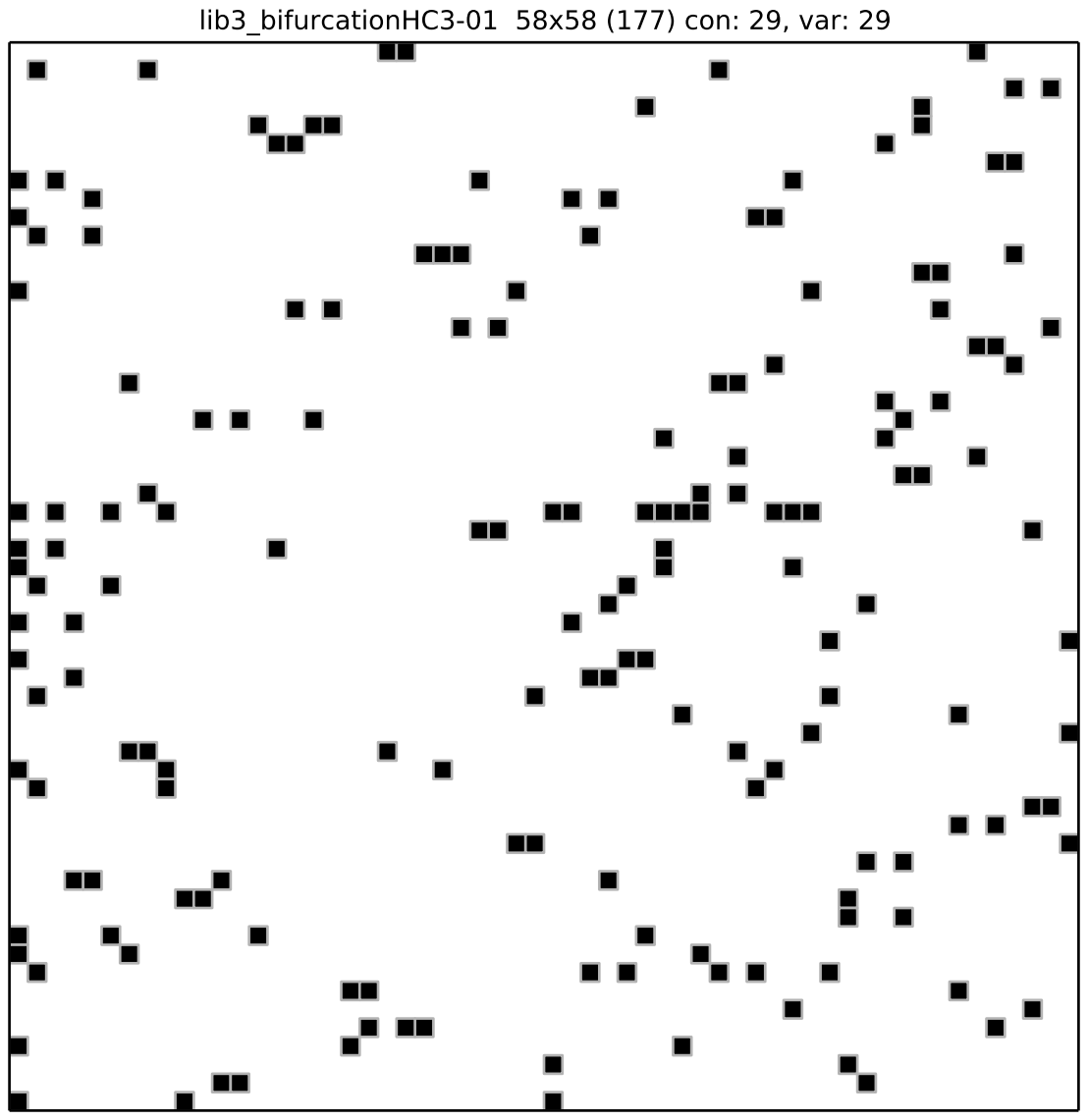


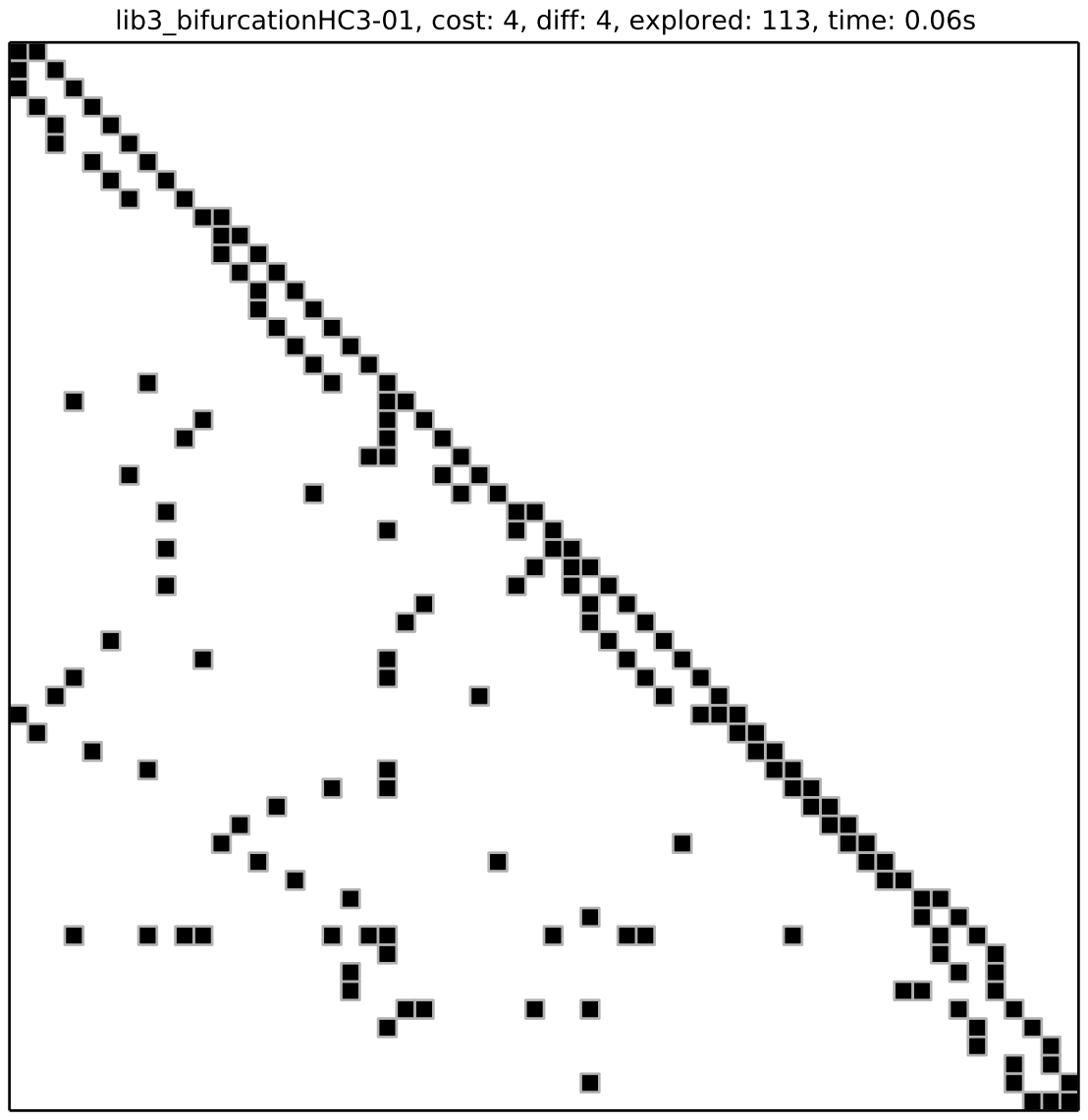

lib3_bellido-RE, cost: 9, diff: 9, explored: 43, time: 0.01s

lib3_bifurcationHC3-00 58x58 (177) con: 29, var: 29

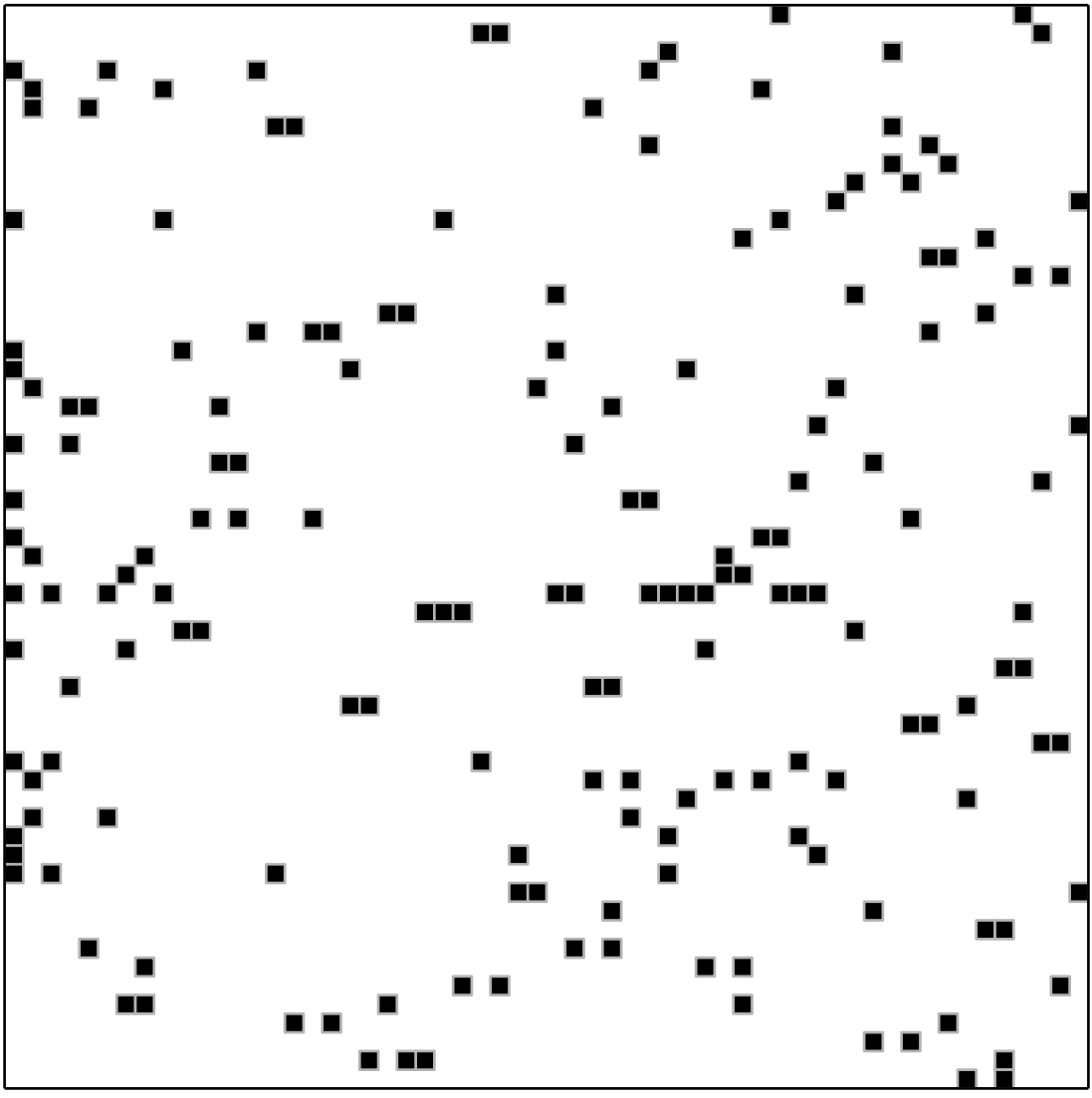


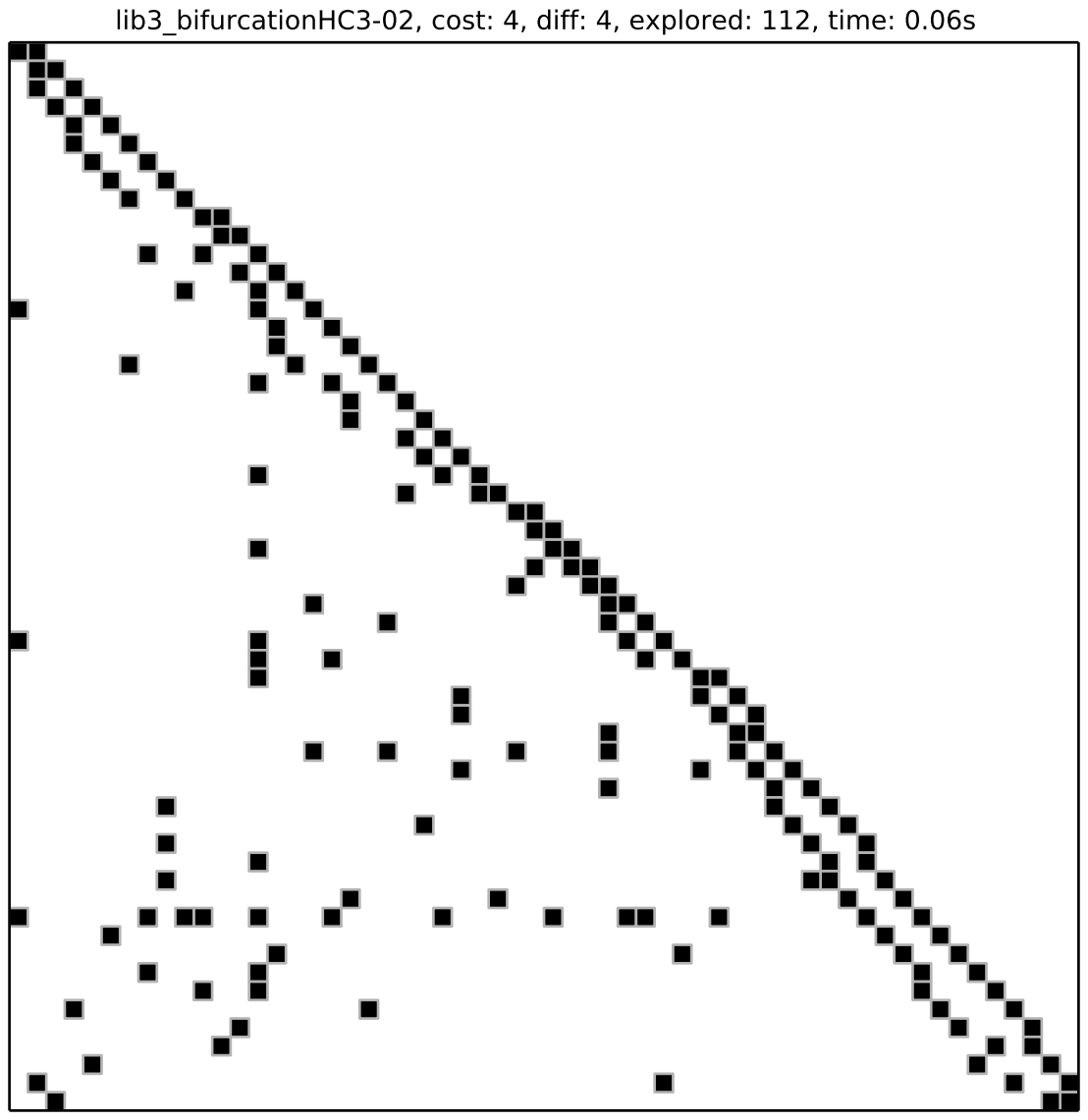

lib3_bifurcationHC3-00, cost: 4, diff: 4, explored: 98, time: 0.05s


lib3_bifurcationHC3-01 58x58 (177) con: 29, var: 29

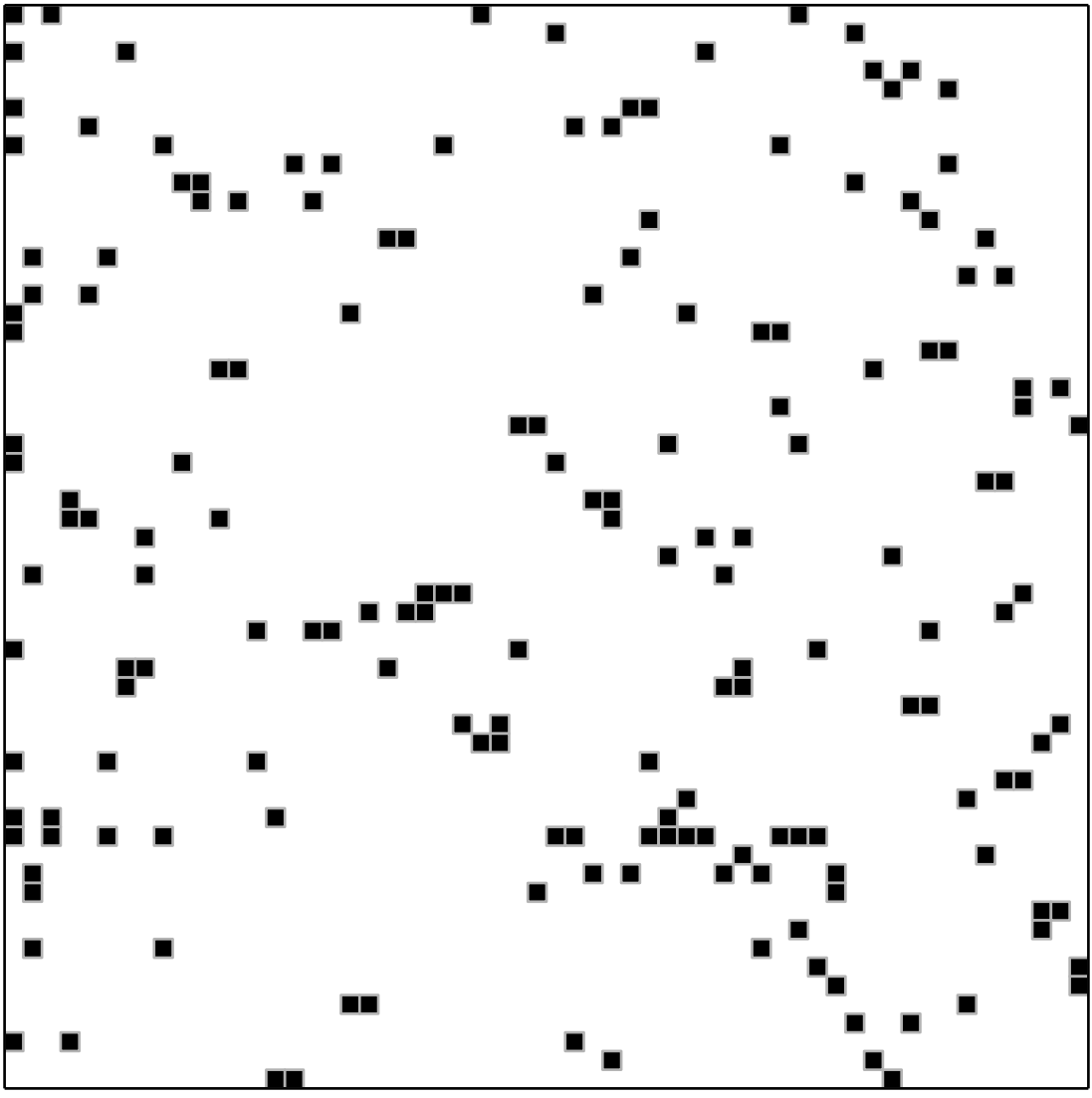

lib3_bifurcationHC3-01, cost: 4, diff: 4, explored: 113, time: 0.06s

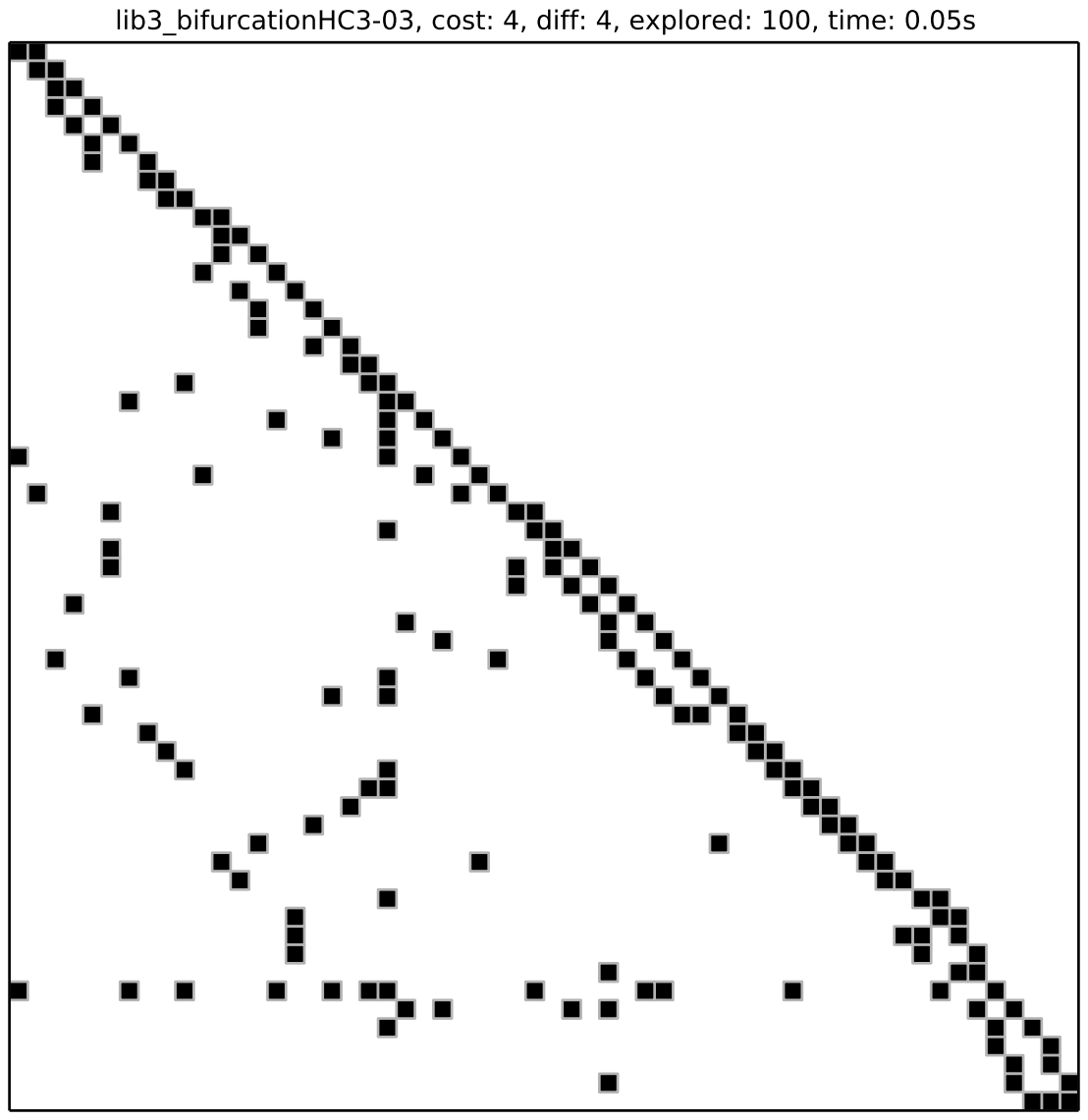
lib3_bifurcationHC3-02 58x58 (177) con: 29, var: 29

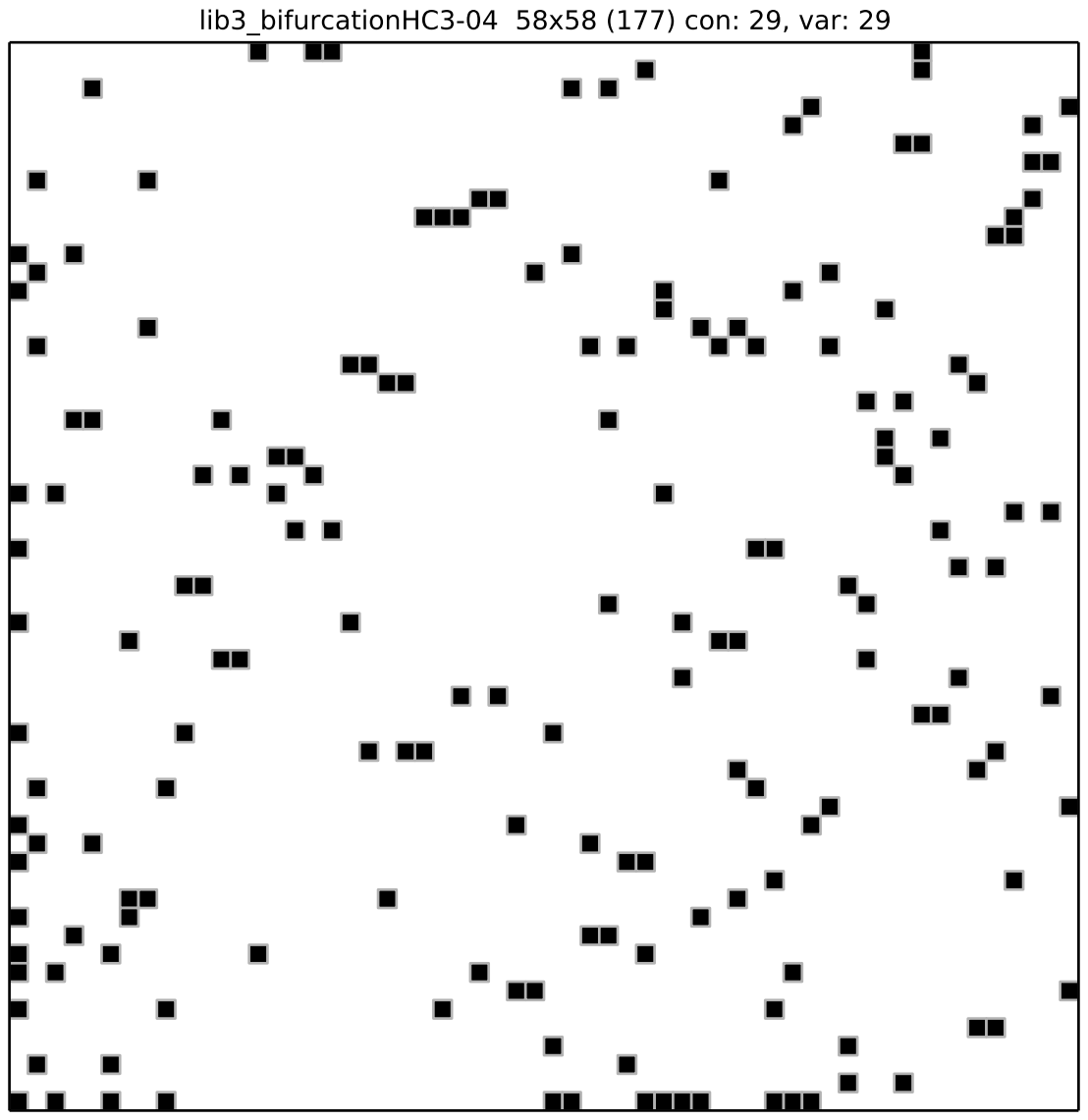


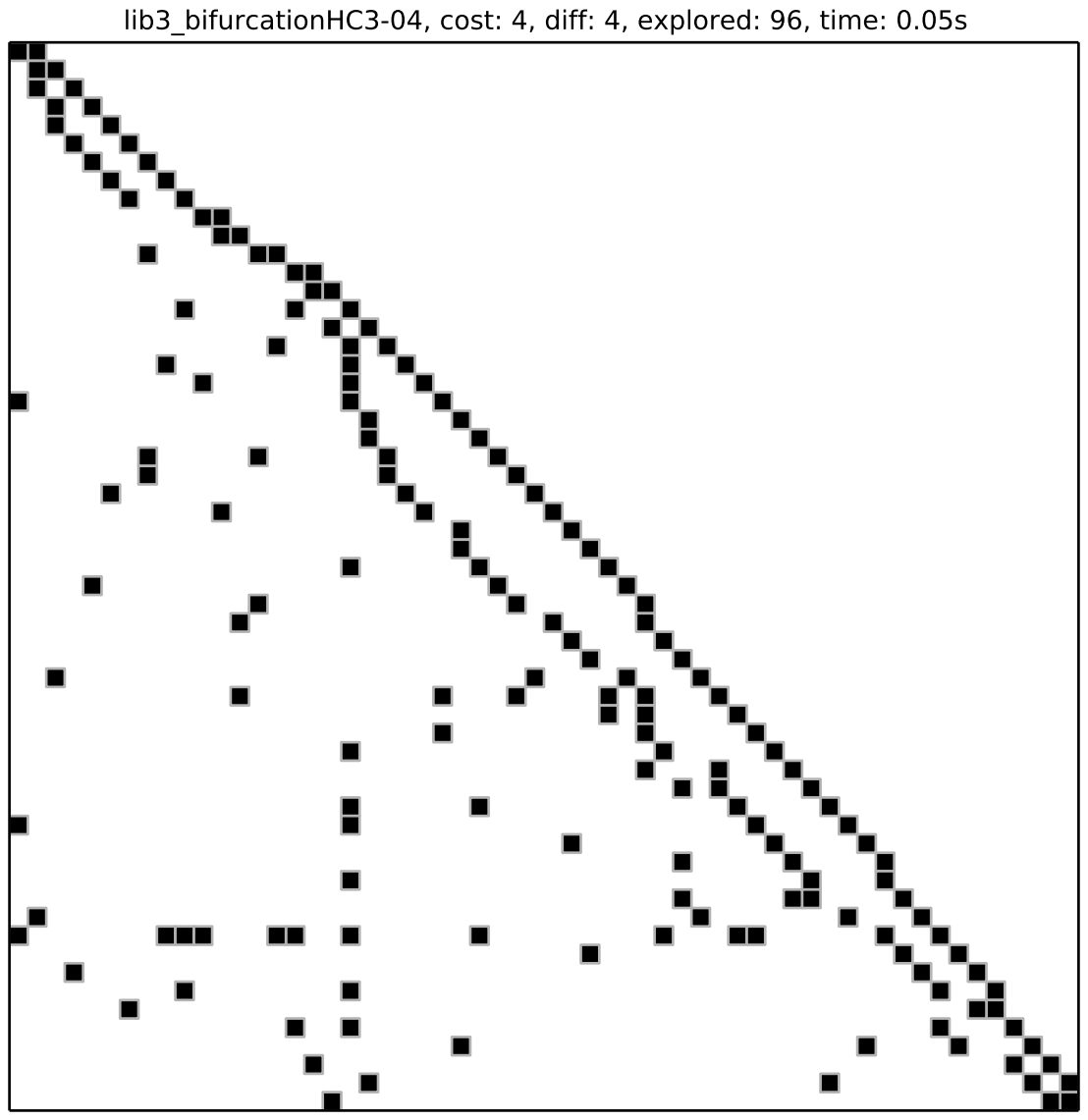

lib3_bifurcationHC3-02, cost: 4, diff: 4, explored: 112, time: 0.06s

lib3_bifurcationHC3-03 58x58 (177) con: 29, var: 29

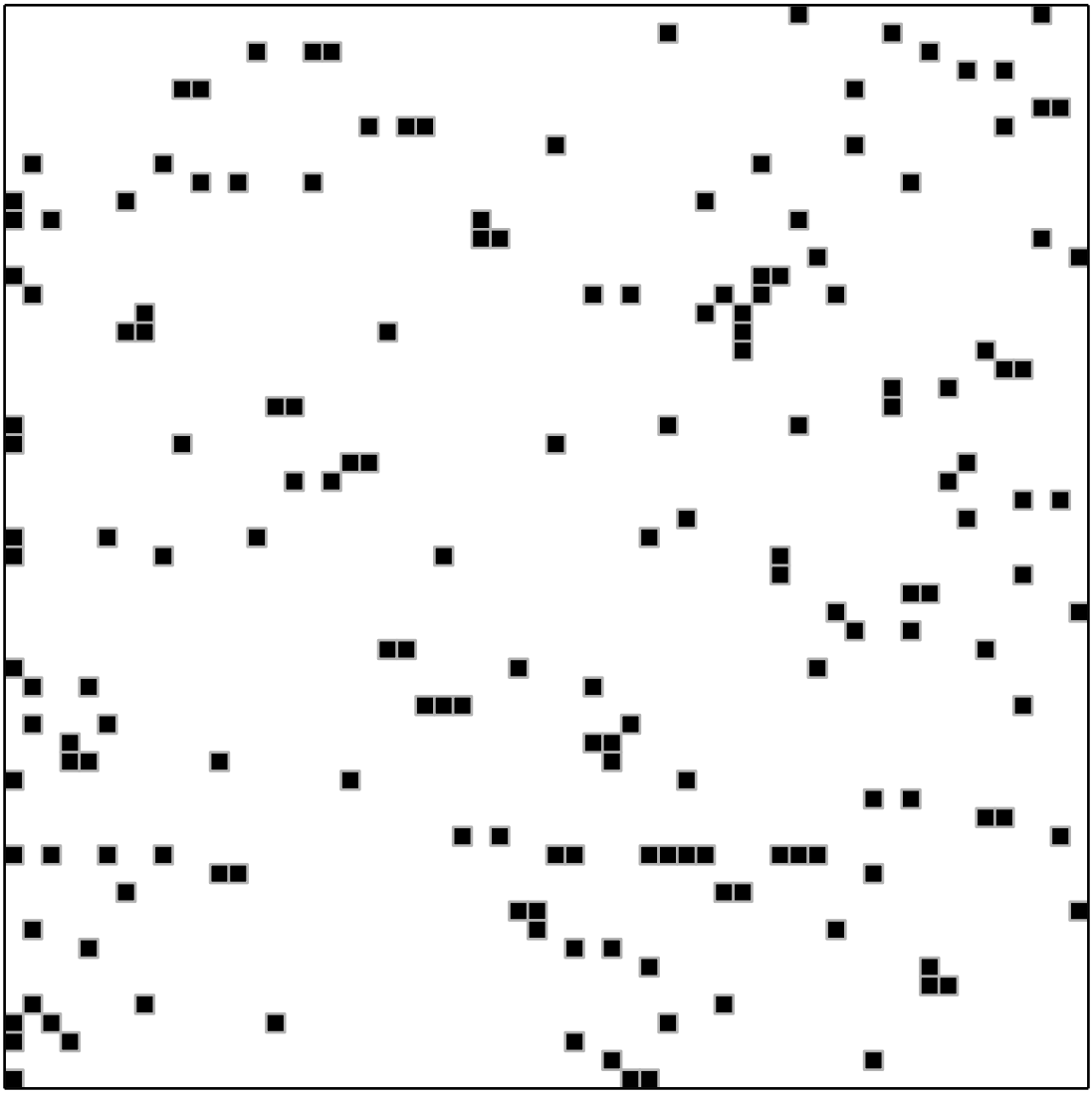


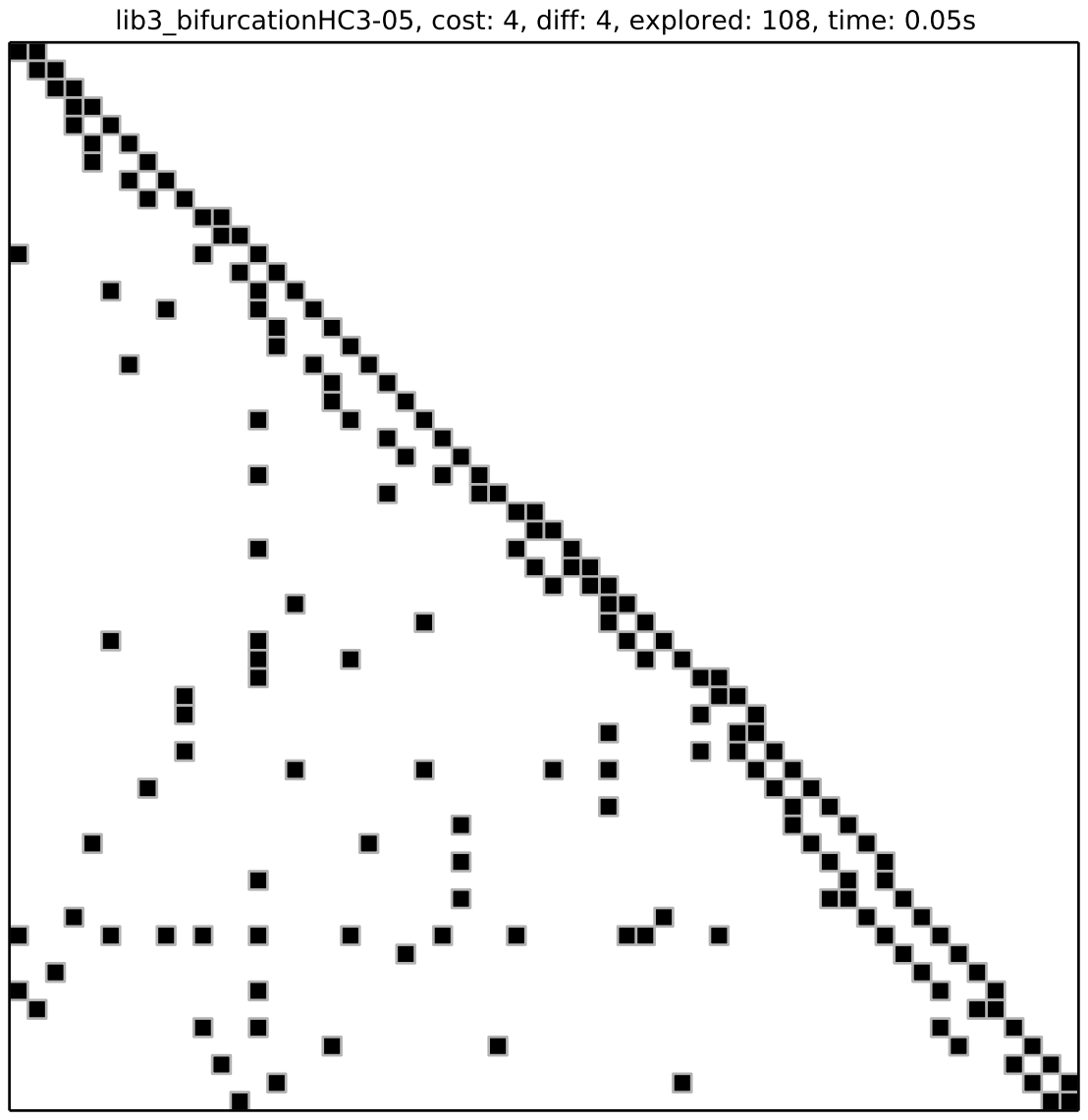

lib3_bifurcationHC3-03, cost: 4, diff: 4, explored: 100, time: 0.05s

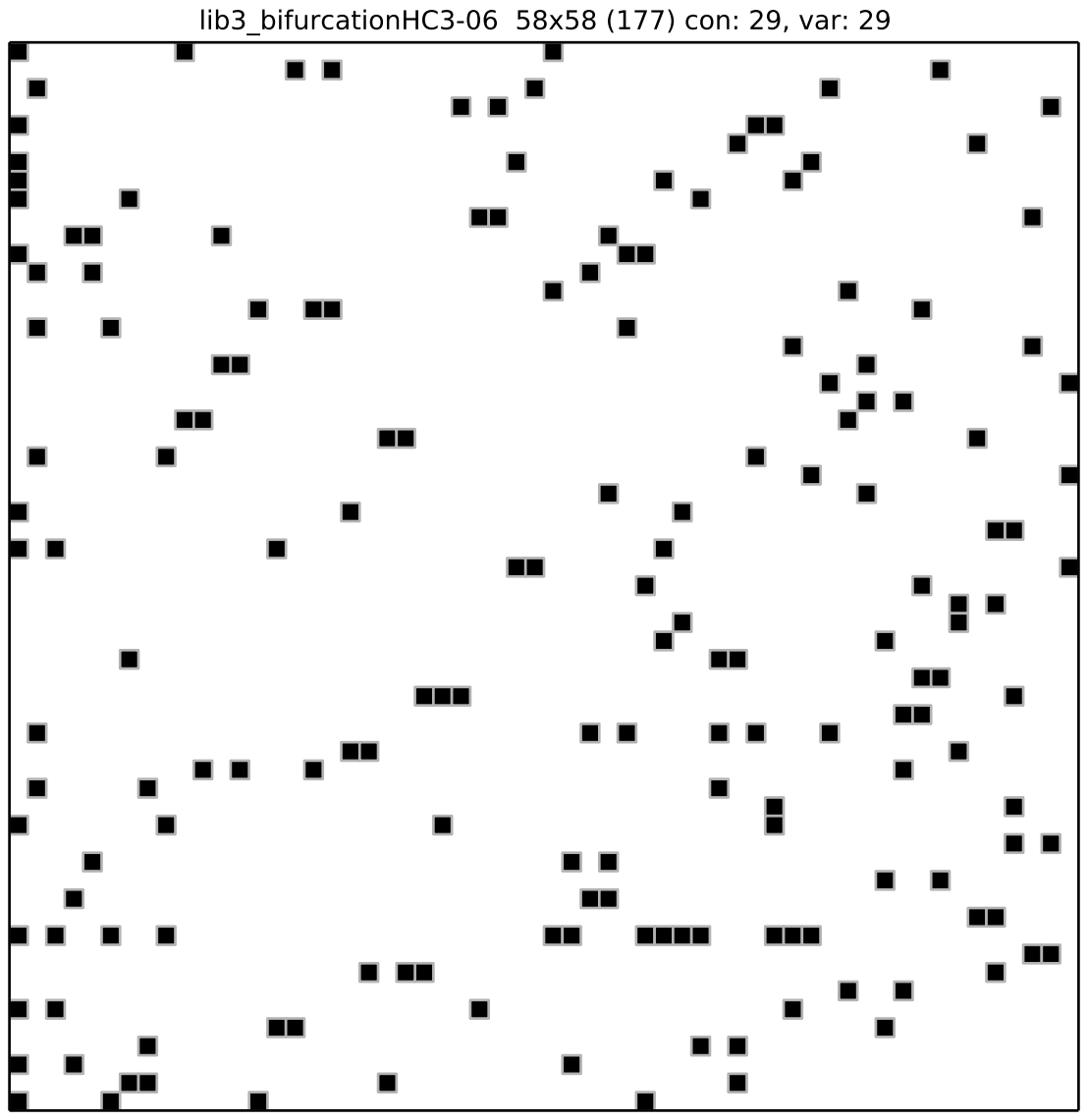

lib3_bifurcationHC3-04 58x58 (177) con: 29, var: 29

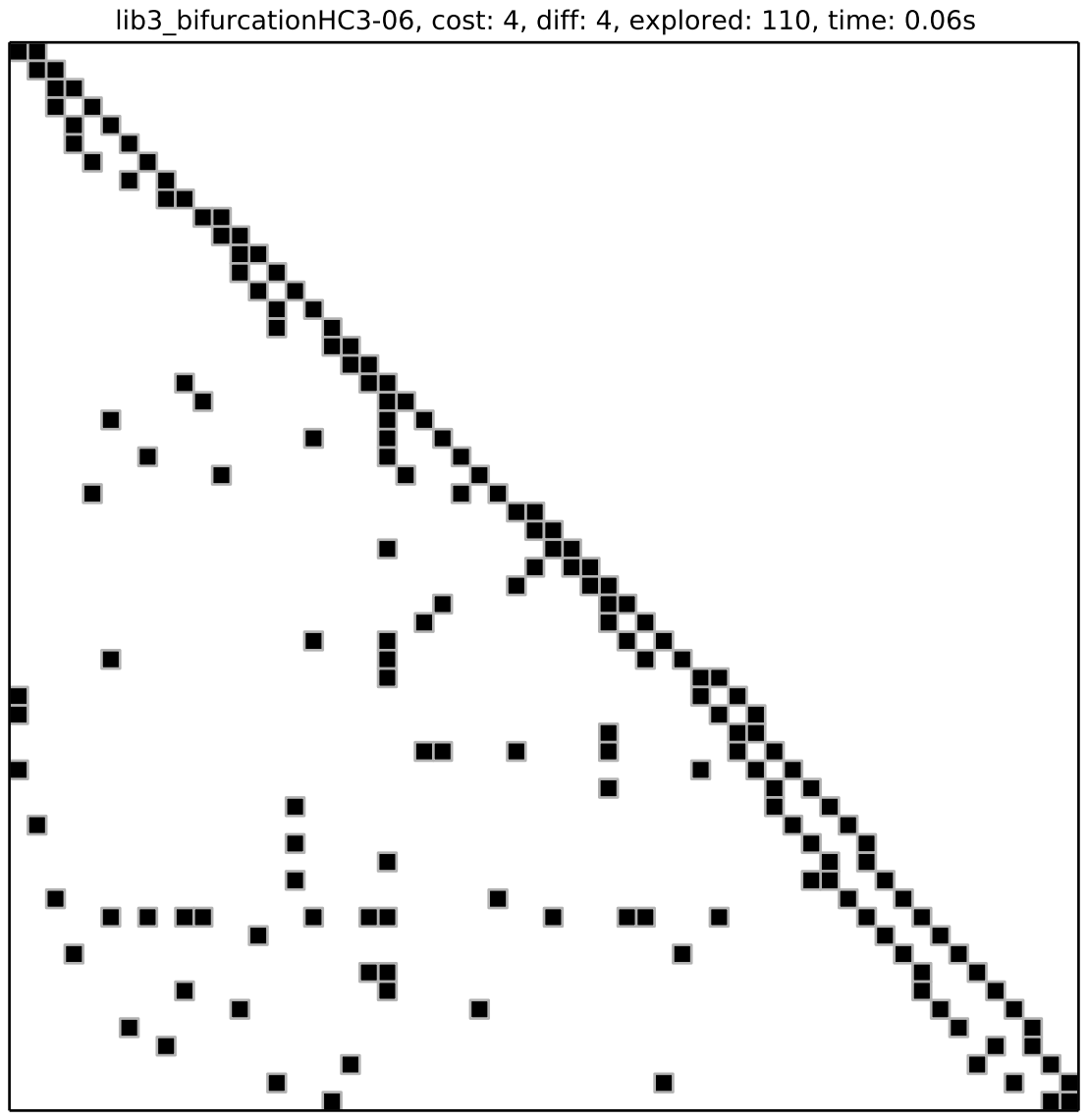

lib3_bifurcationHC3-04, cost: 4, diff: 4, explored: 96, time: 0.05s

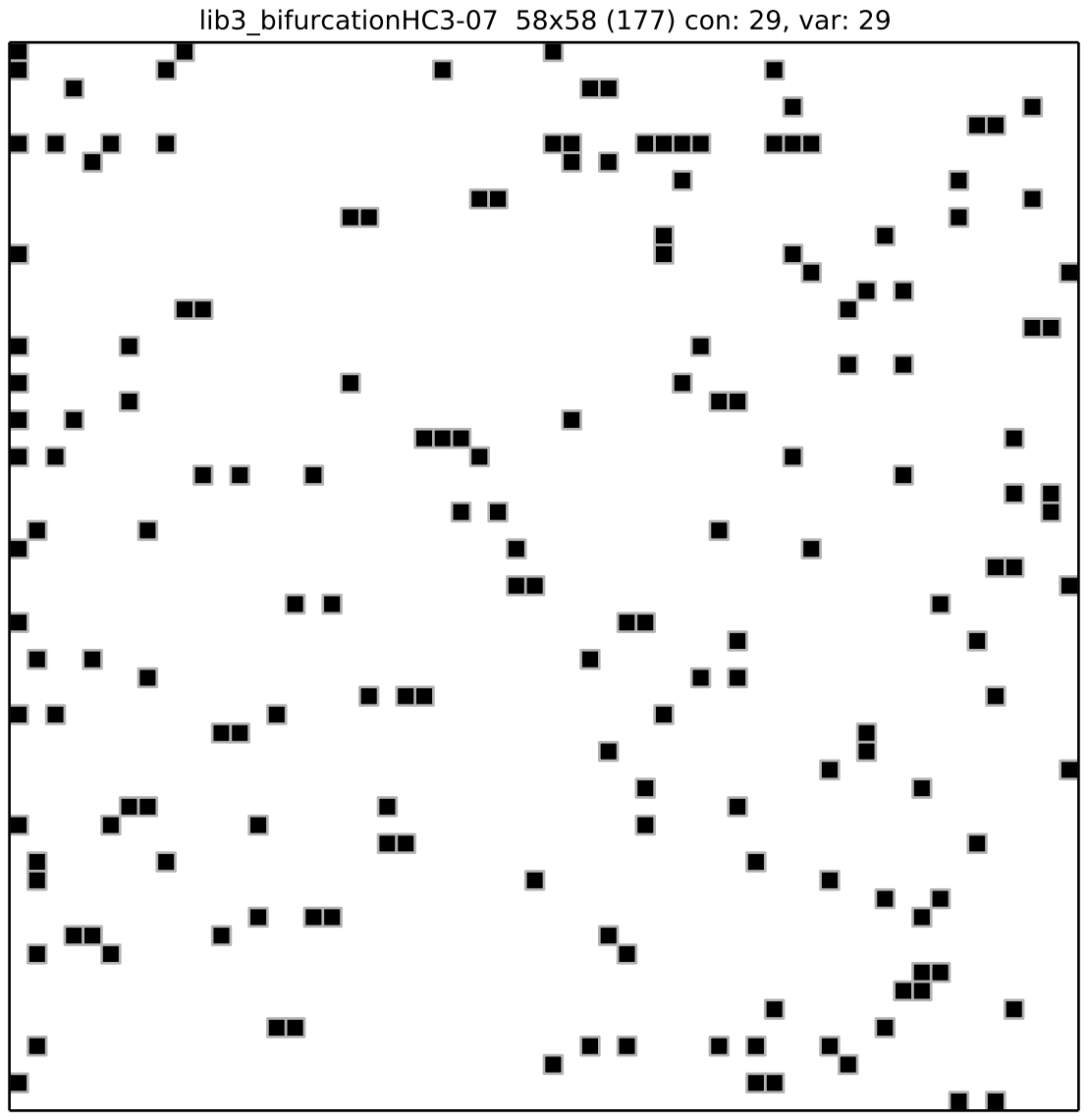
lib3_bifurcationHC3-05 58x58 (177) con: 29, var: 29

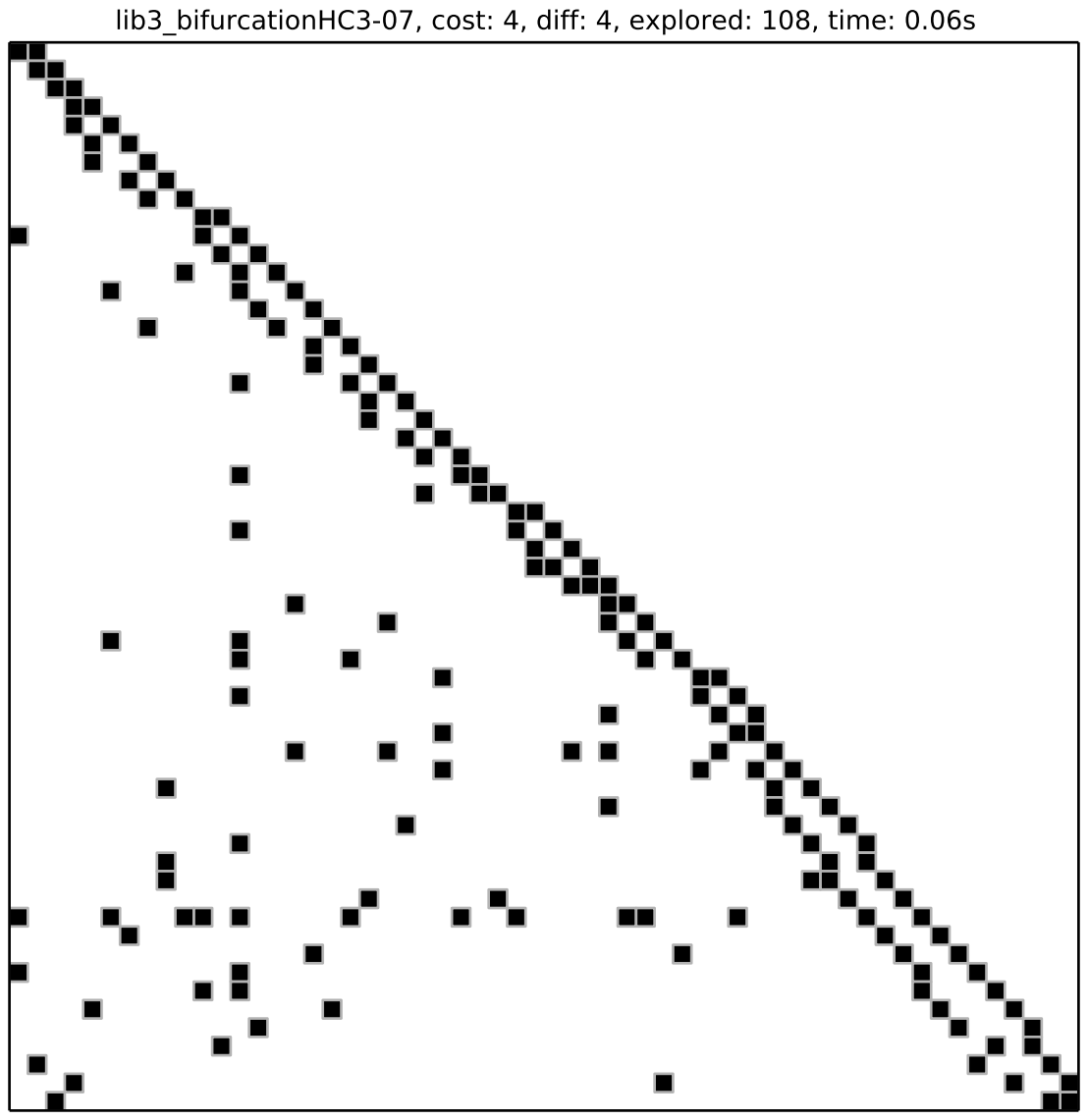


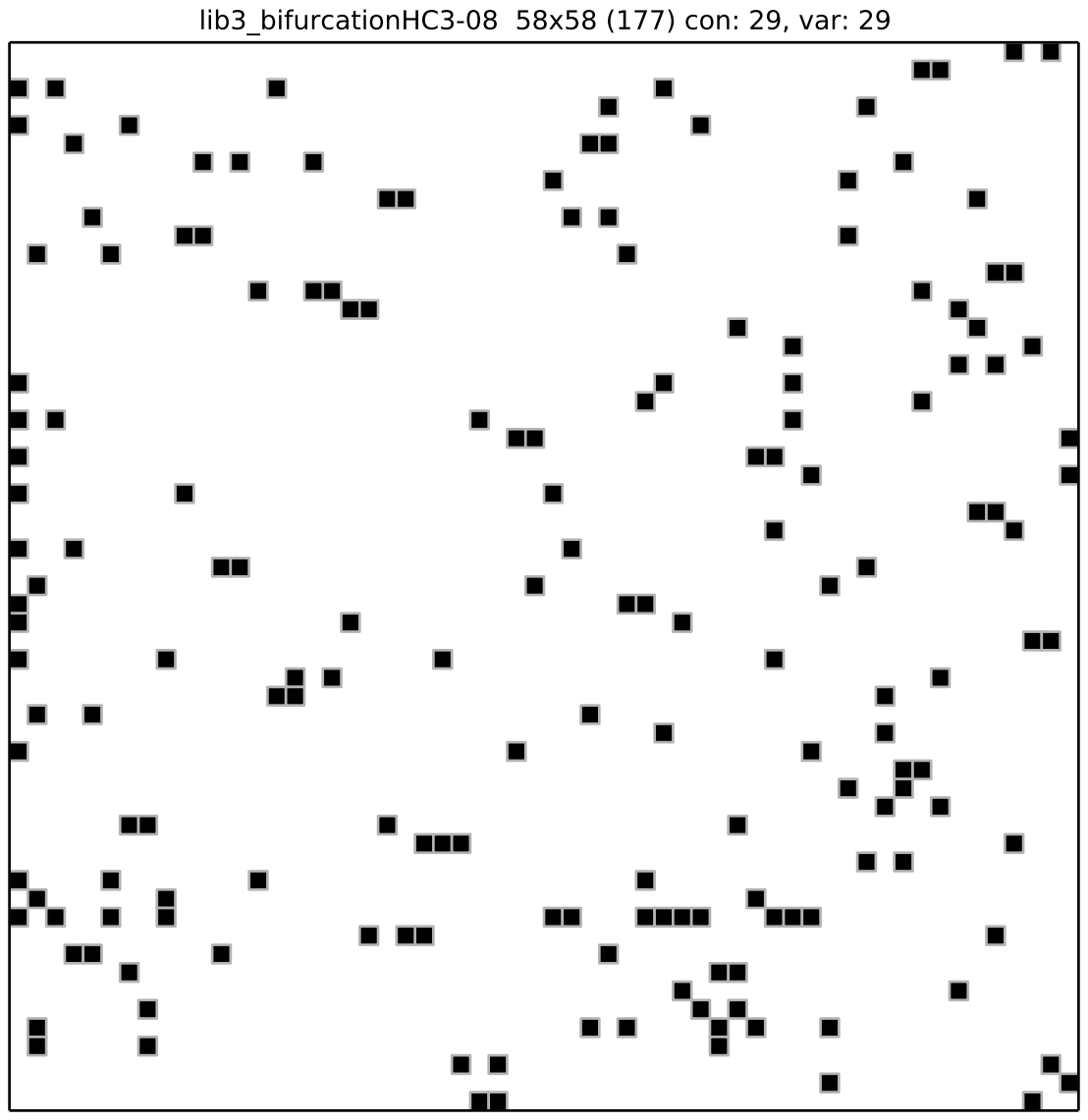

lib3_bifurcationHC3-05, cost: 4, diff: 4, explored: 108, time: 0.05s

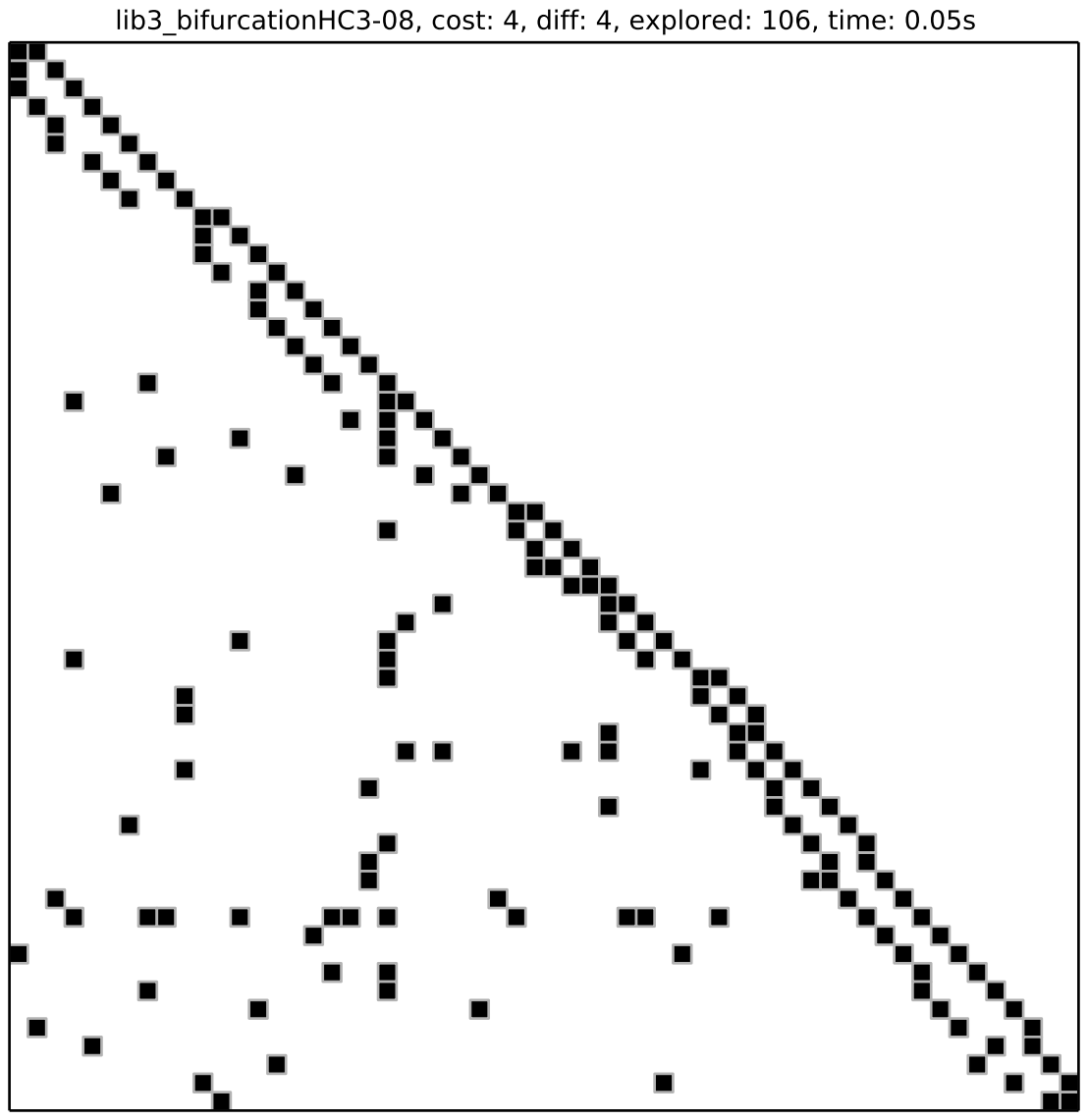

lib3_bifurcationHC3-06 58x58 (177) con: 29, var: 29

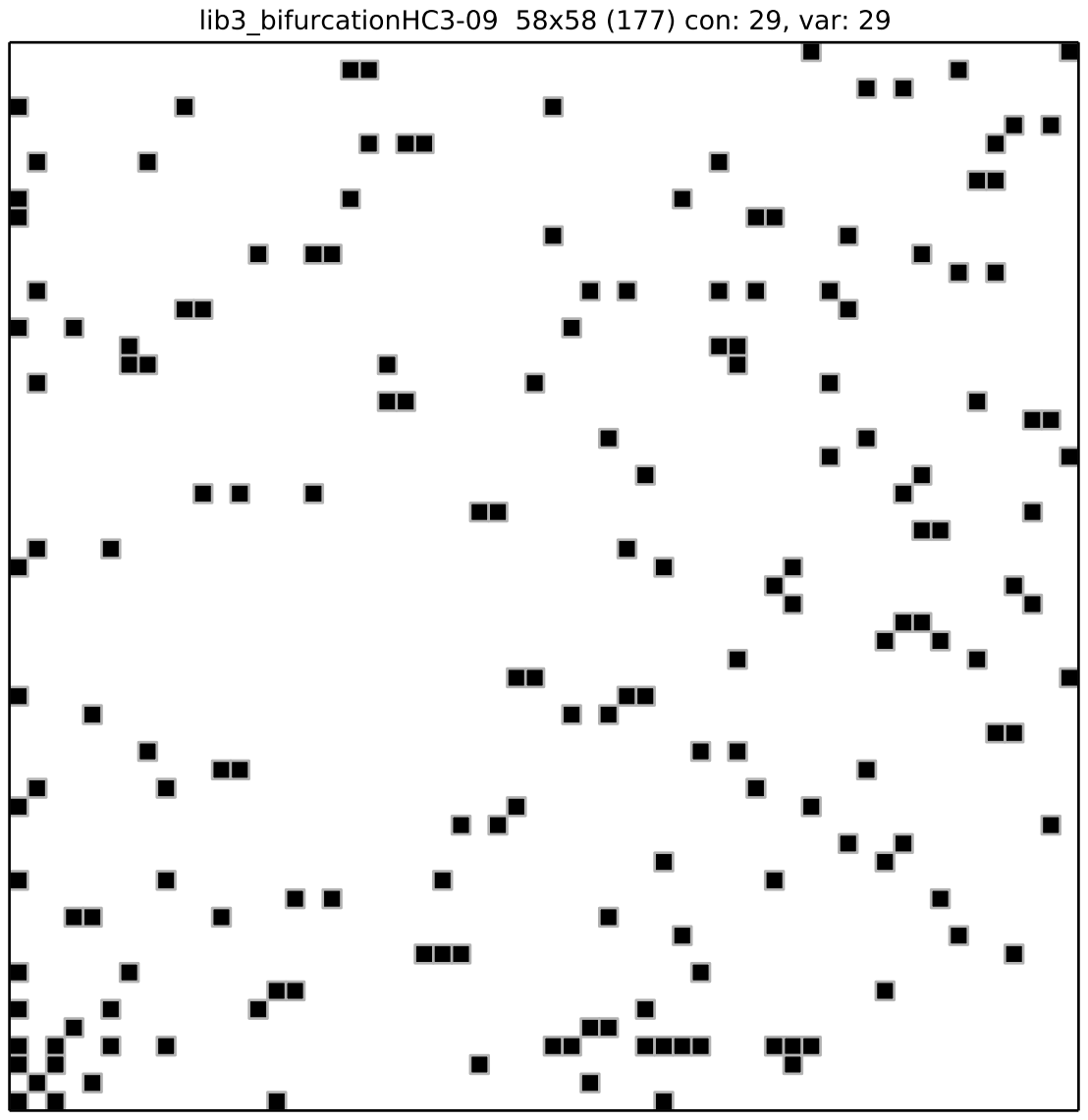

lib3_bifurcationHC3-06, cost: 4, diff: 4, explored: 110, time: 0.06s

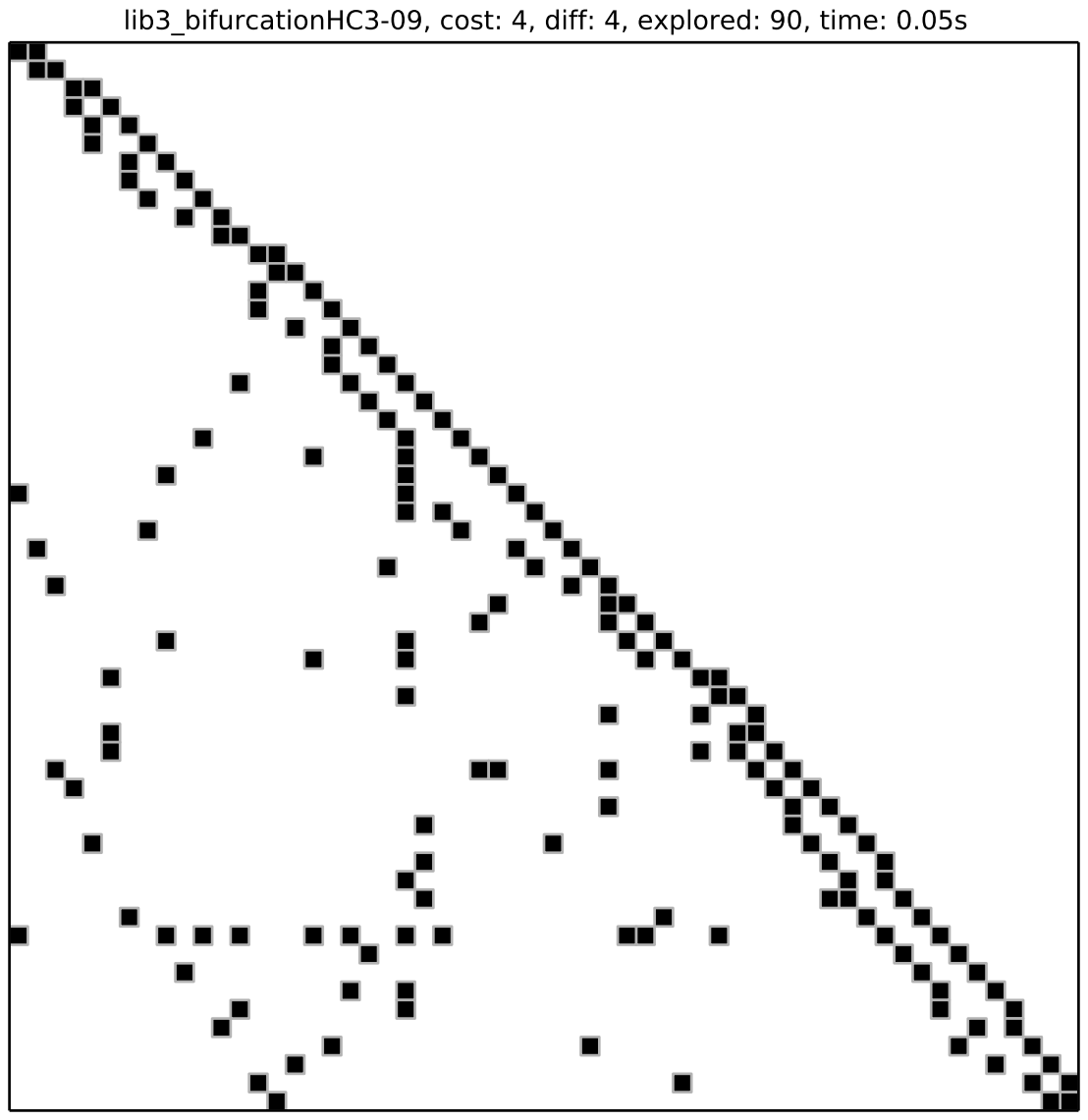

lib3_bifurcationHC3-07 58x58 (177) con: 29, var: 29

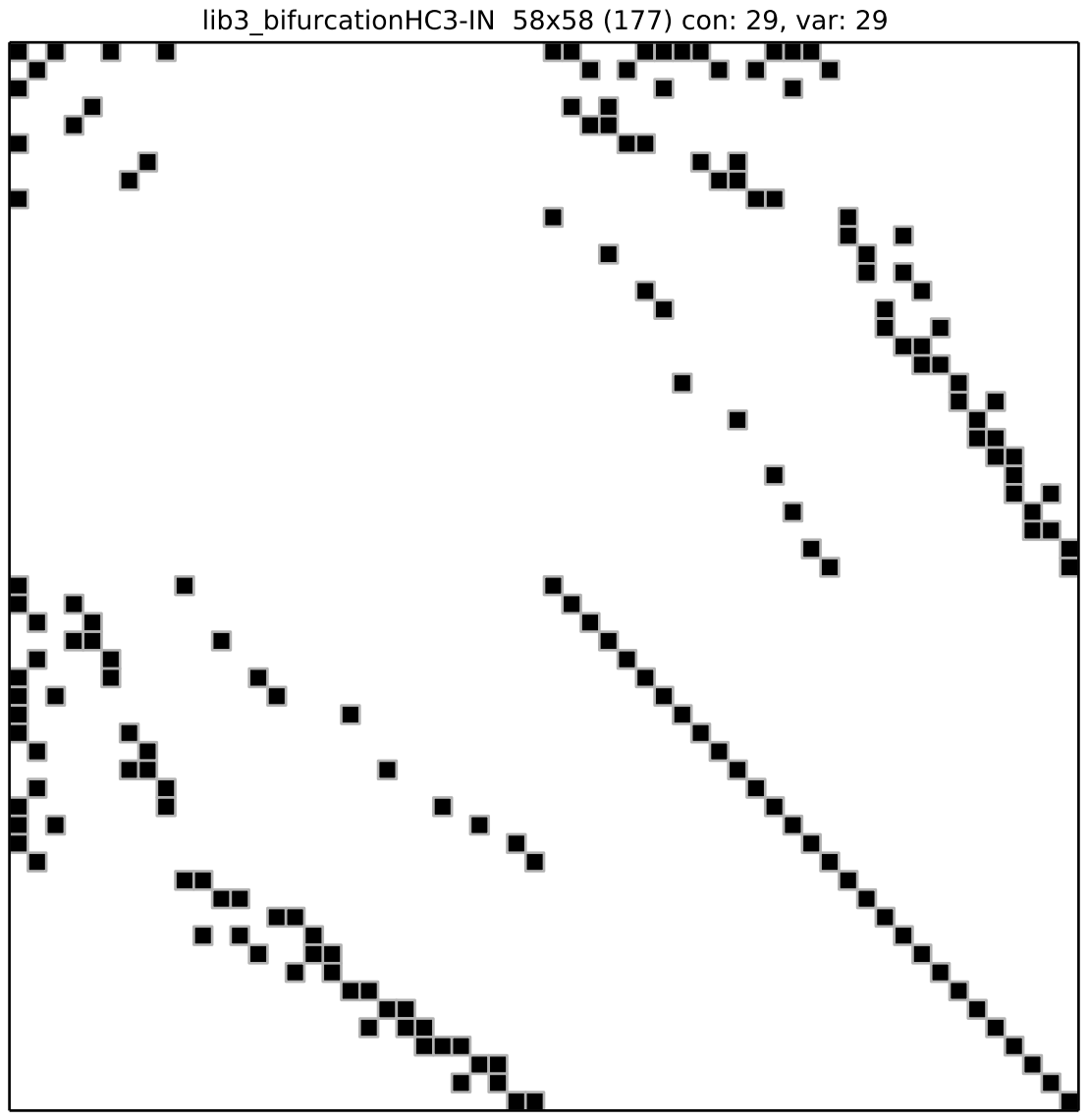

lib3_bifurcationHC3-07, cost: 4, diff: 4, explored: 108, time: 0.06s

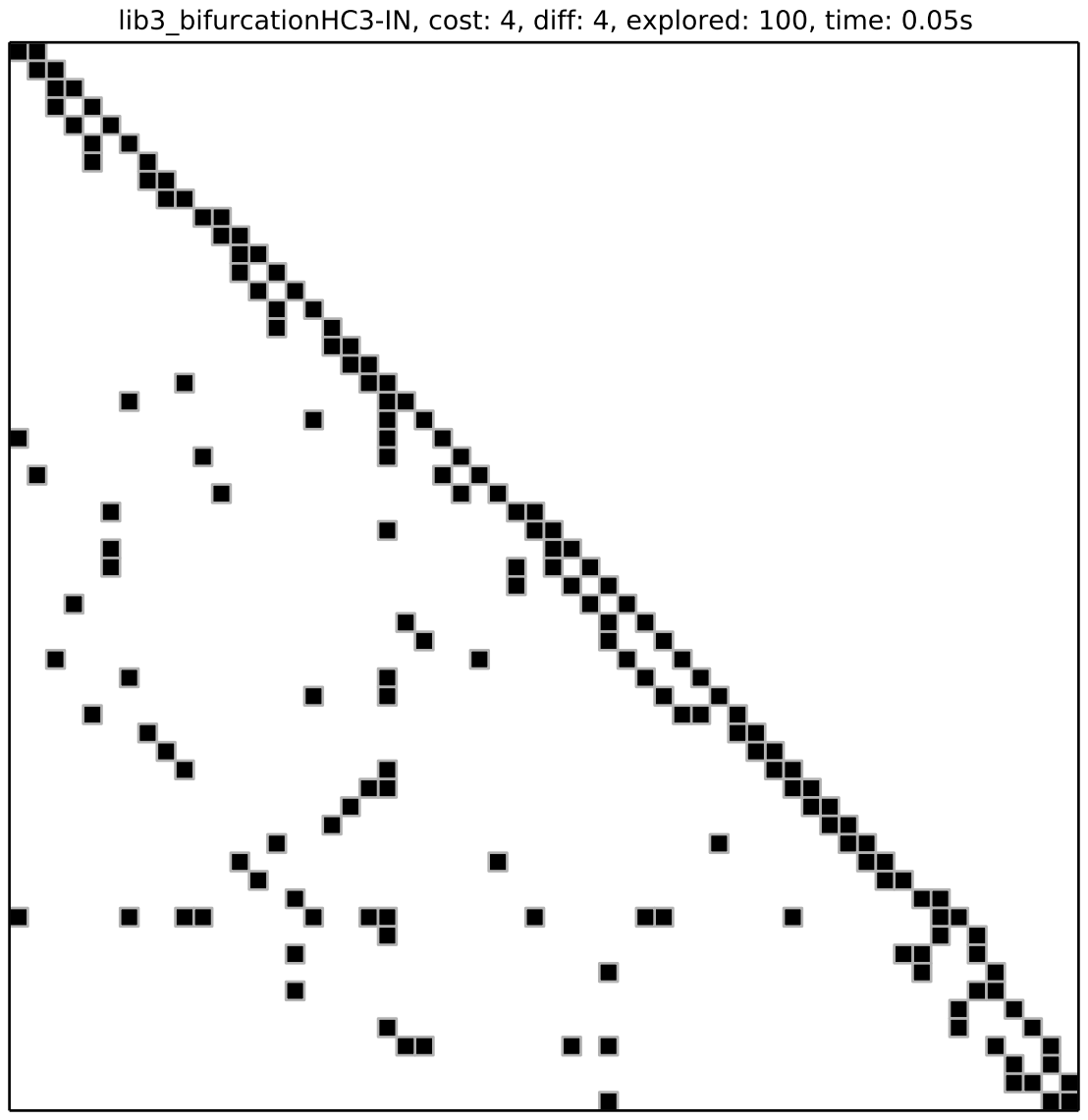

lib3_bifurcationHC3-08 58x58 (177) con: 29, var: 29


lib3_bifurcationHC3-08, cost: 4, diff: 4, explored: 106, time: 0.05s

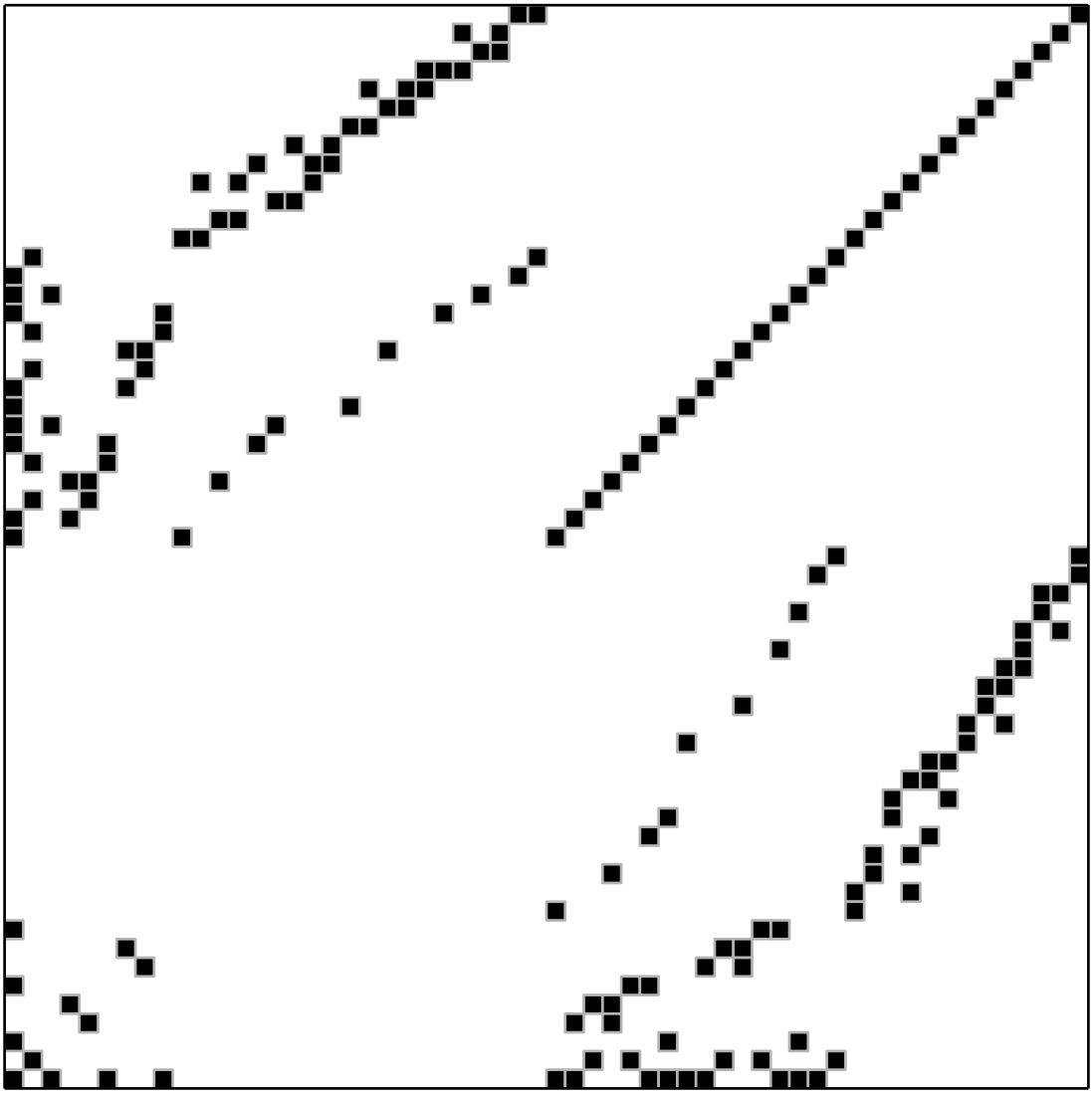

lib3_bifurcationHC3-09 58x58 (177) con: 29, var: 29

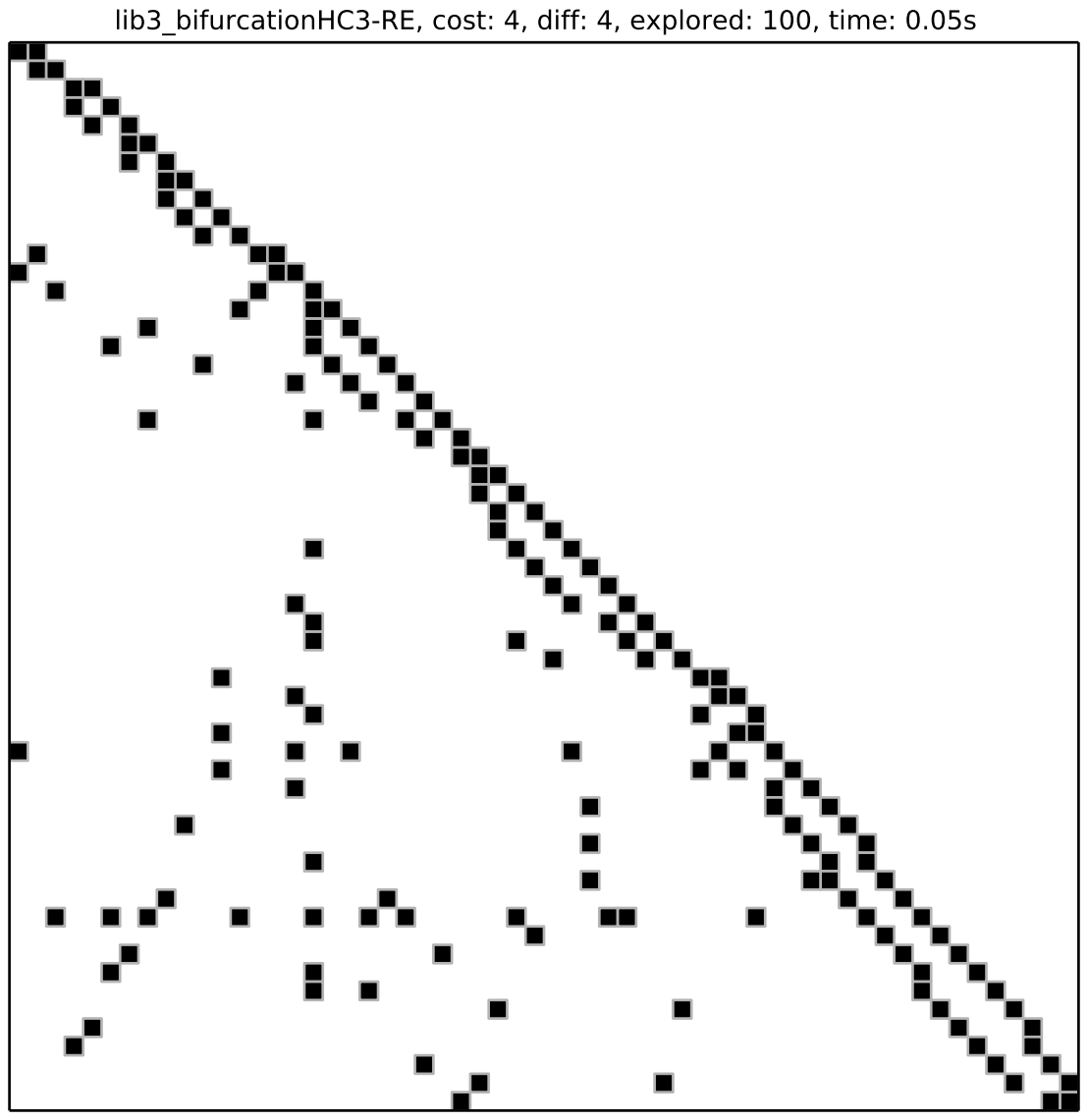

lib3_bifurcationHC3-09, cost: 4, diff: 4, explored: 90, time: 0.05s


lib3_bifurcationHC3-IN 58x58 (177) con: 29, var: 29

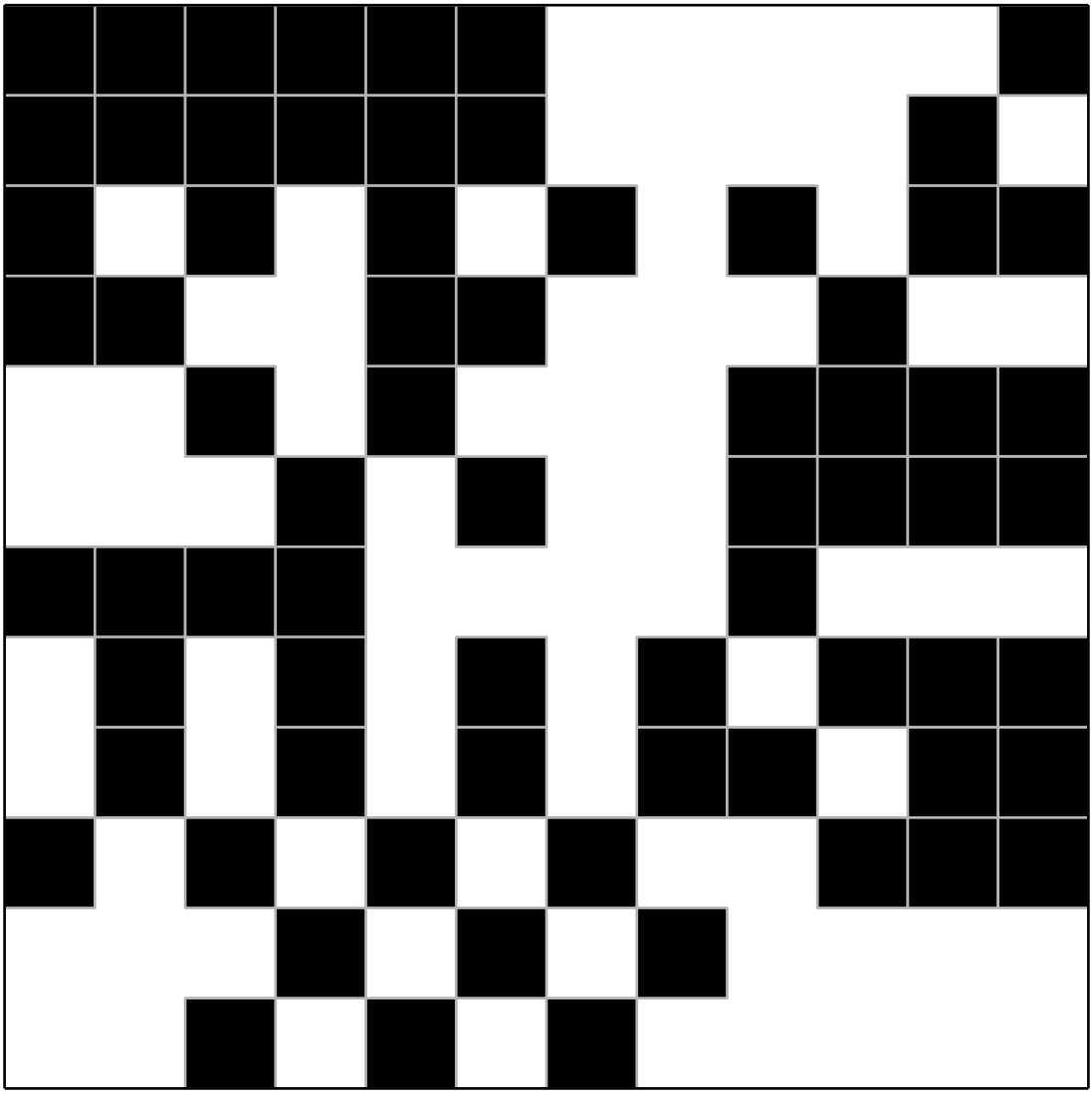

lib3_bifurcationHC3-IN, cost: 4, diff: 4, explored: 100, time: 0.05s

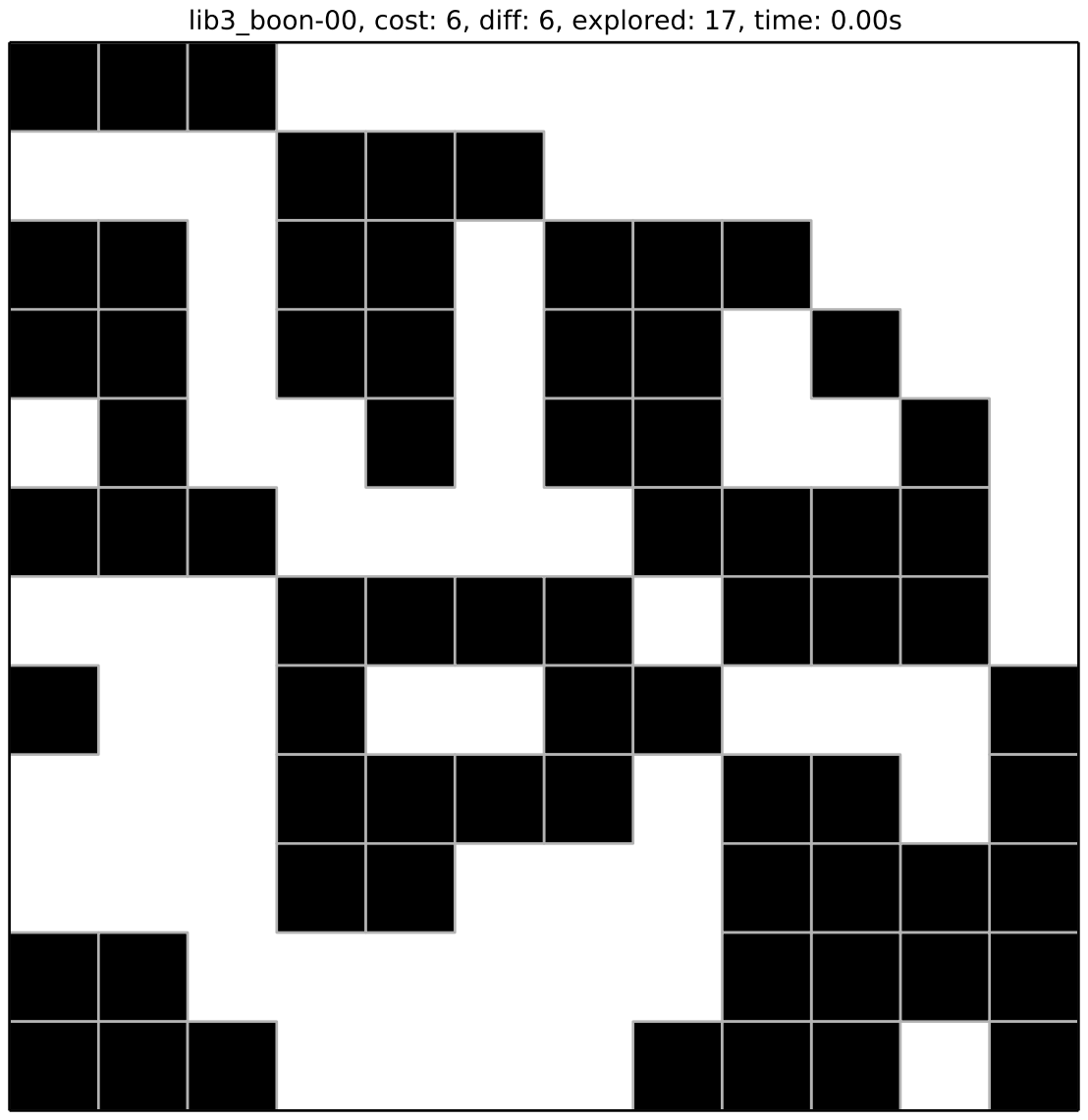
lib3_bifurcationHC3-RE 58x58 (177) con: 29, var: 29



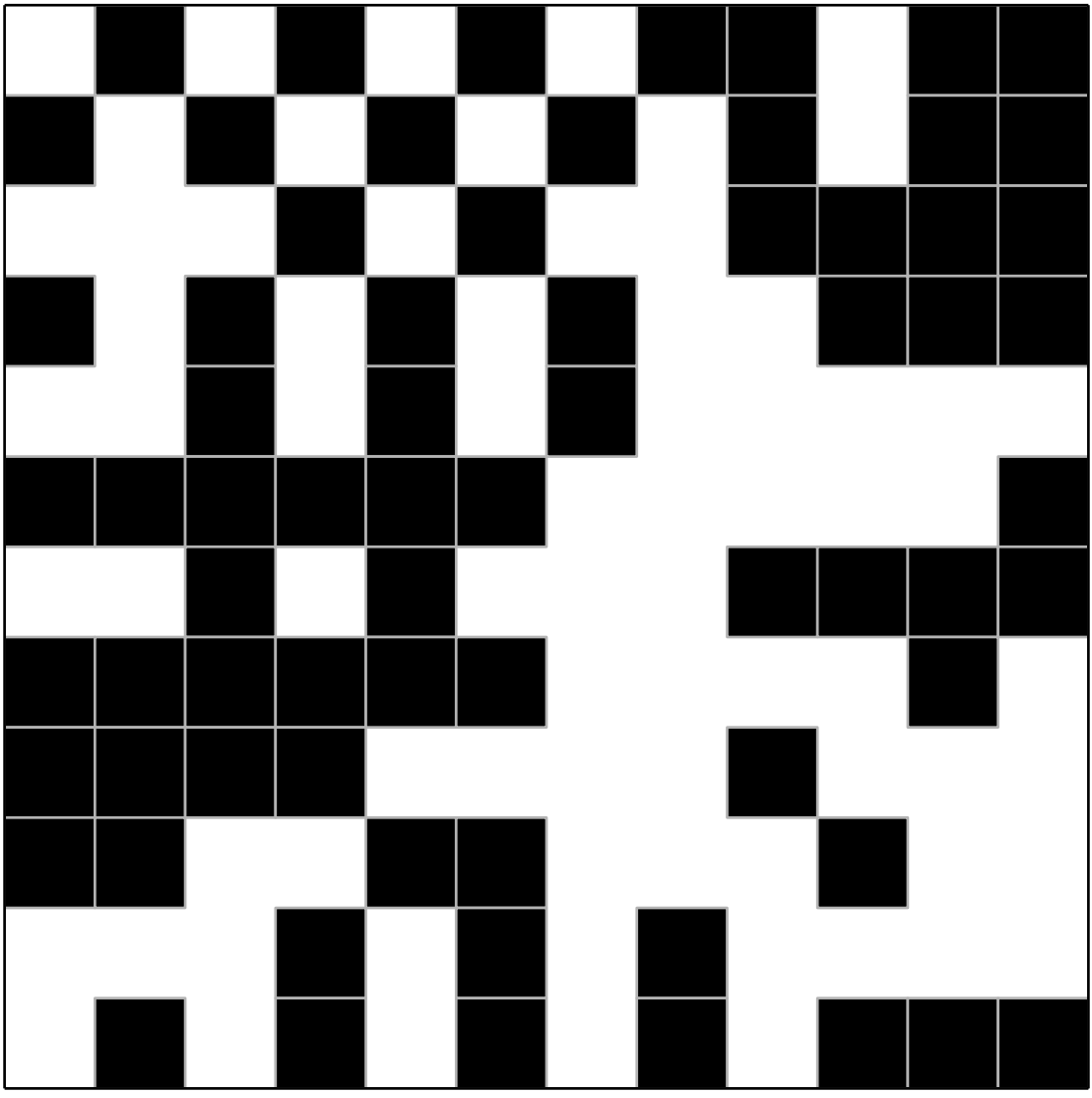

lib3_bifurcationHC3-RE, cost: 4, diff: 4, explored: 100, time: 0.05s

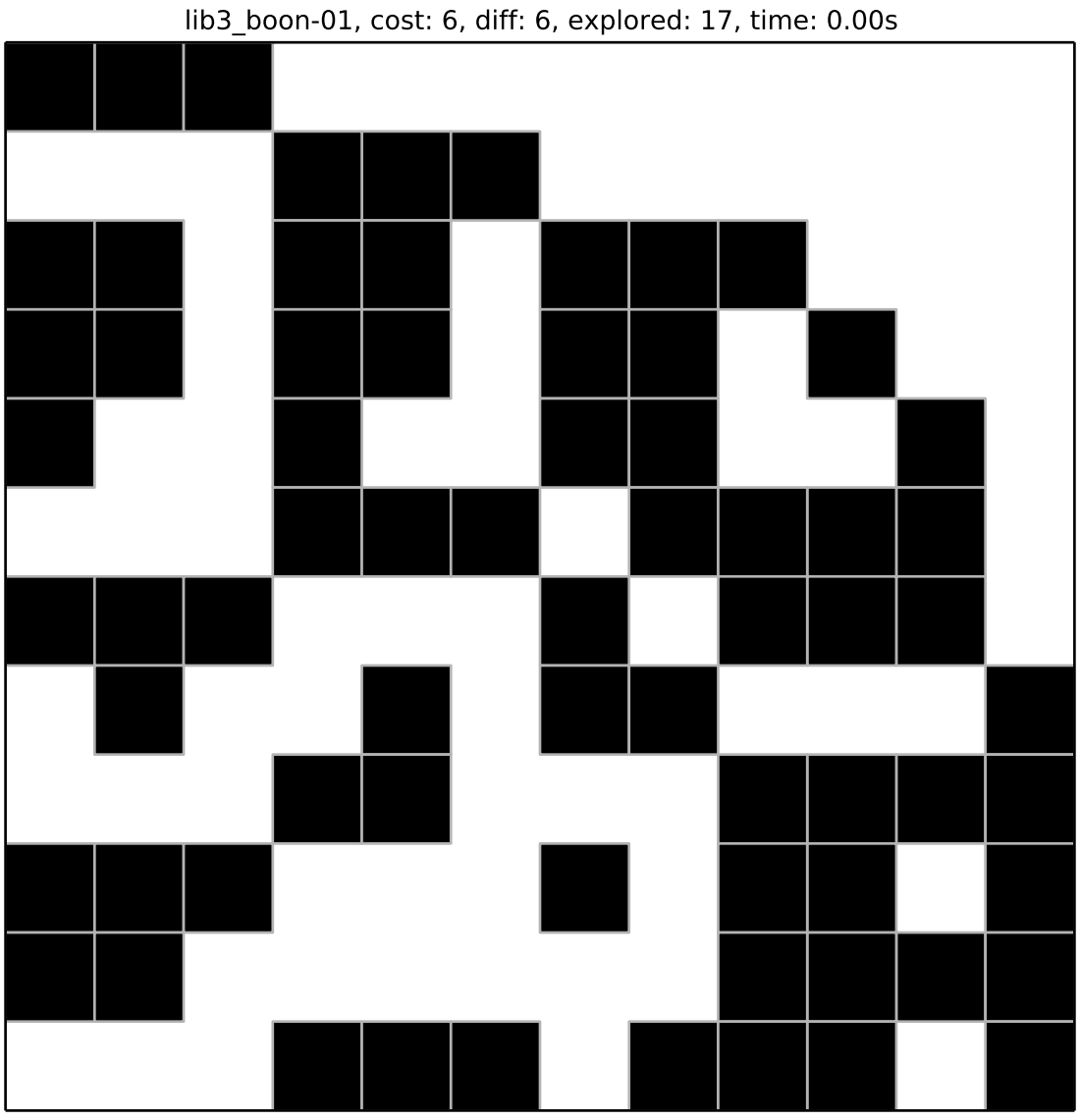
lib3_boon-00 12x12 (70) con: 6, var: 6




lib3_boon-00, cost: 6, diff: 6, explored: 17, time: 0.00s

lib3_boon-01 12x12 (70) con: 6, var: 6

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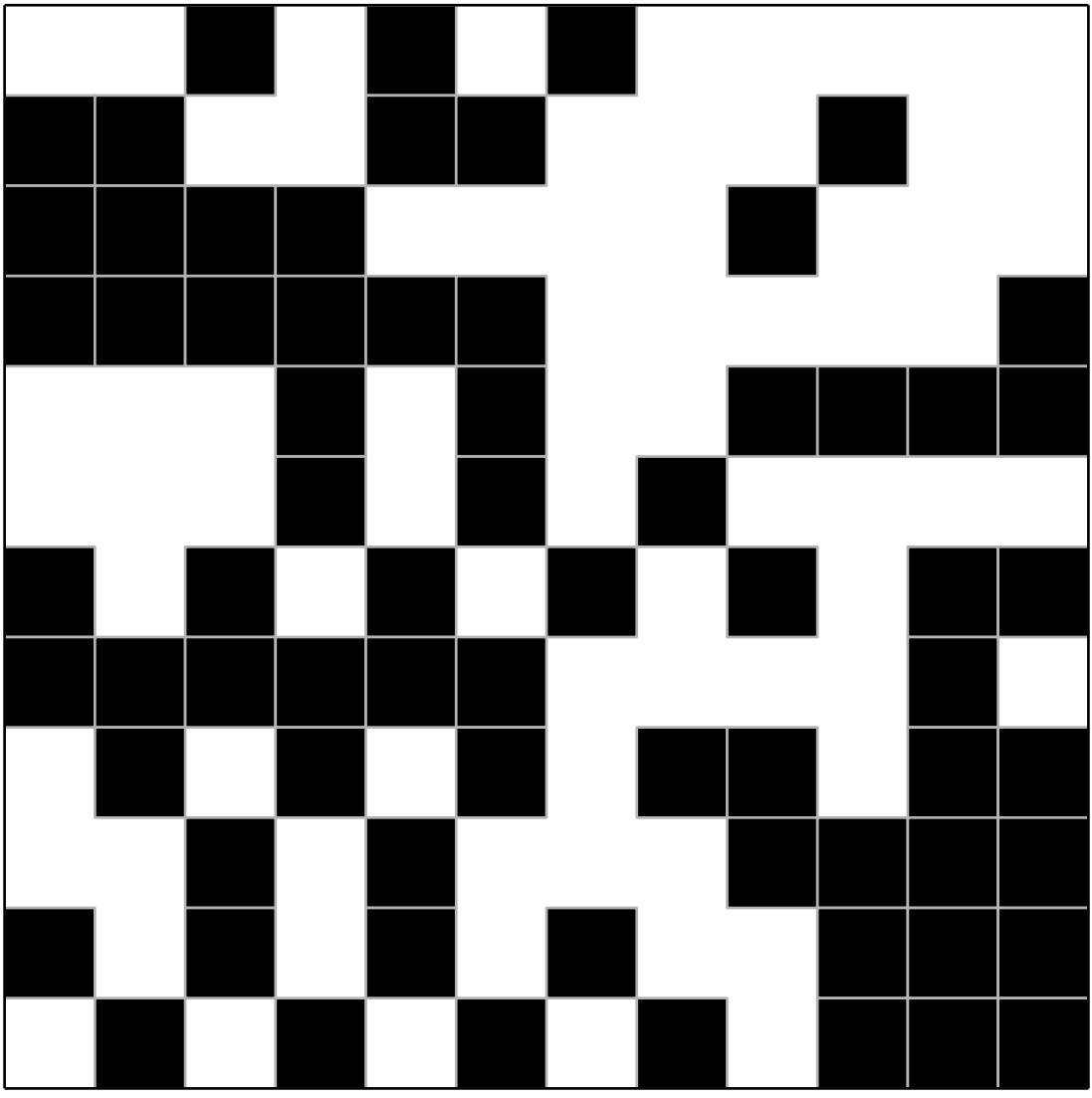
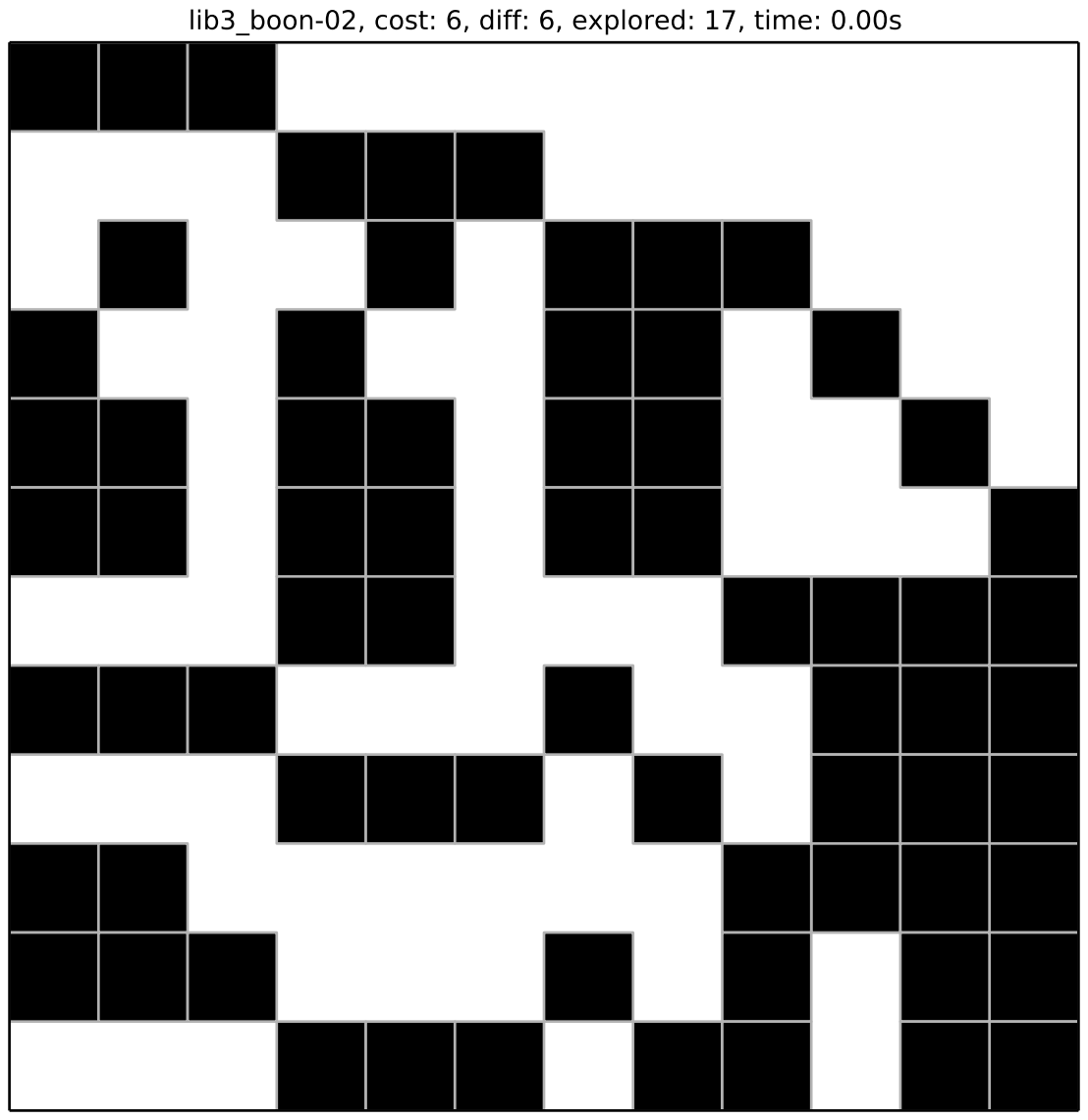
lib3_boon-02 12x12 (70) con: 6, var: 6

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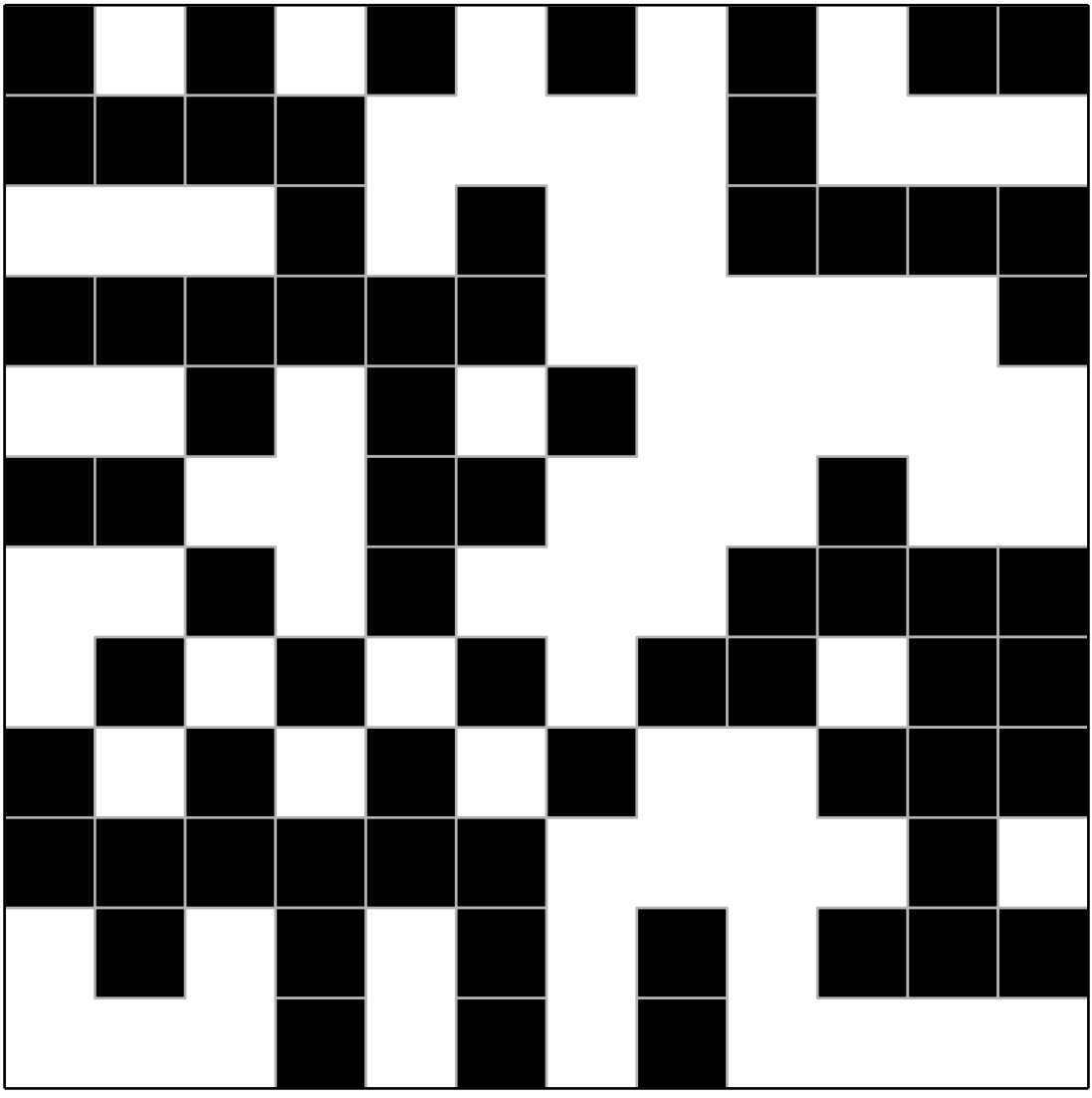
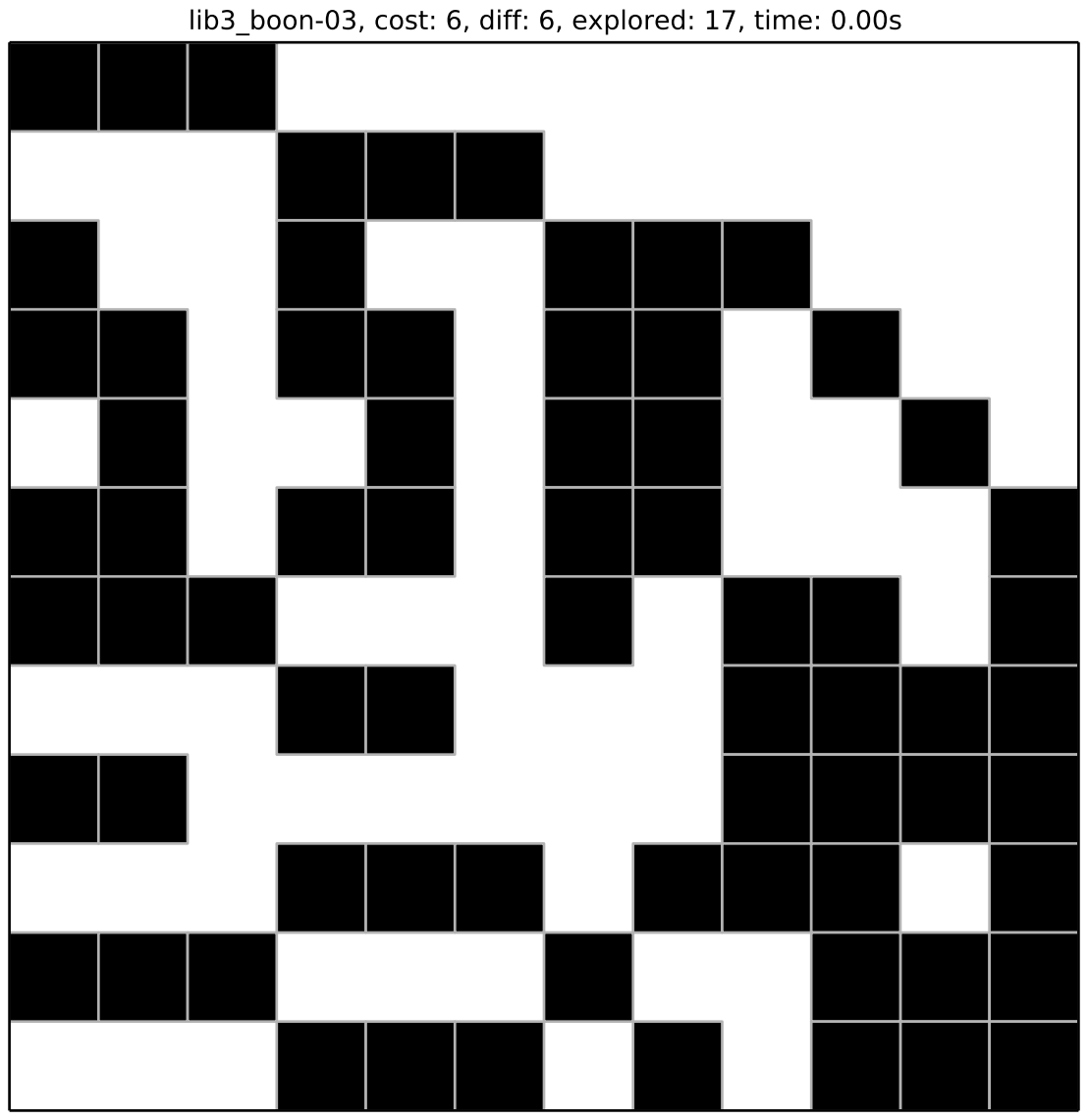
lib3_boon-03 12x12 (70) con: 6, var: 6

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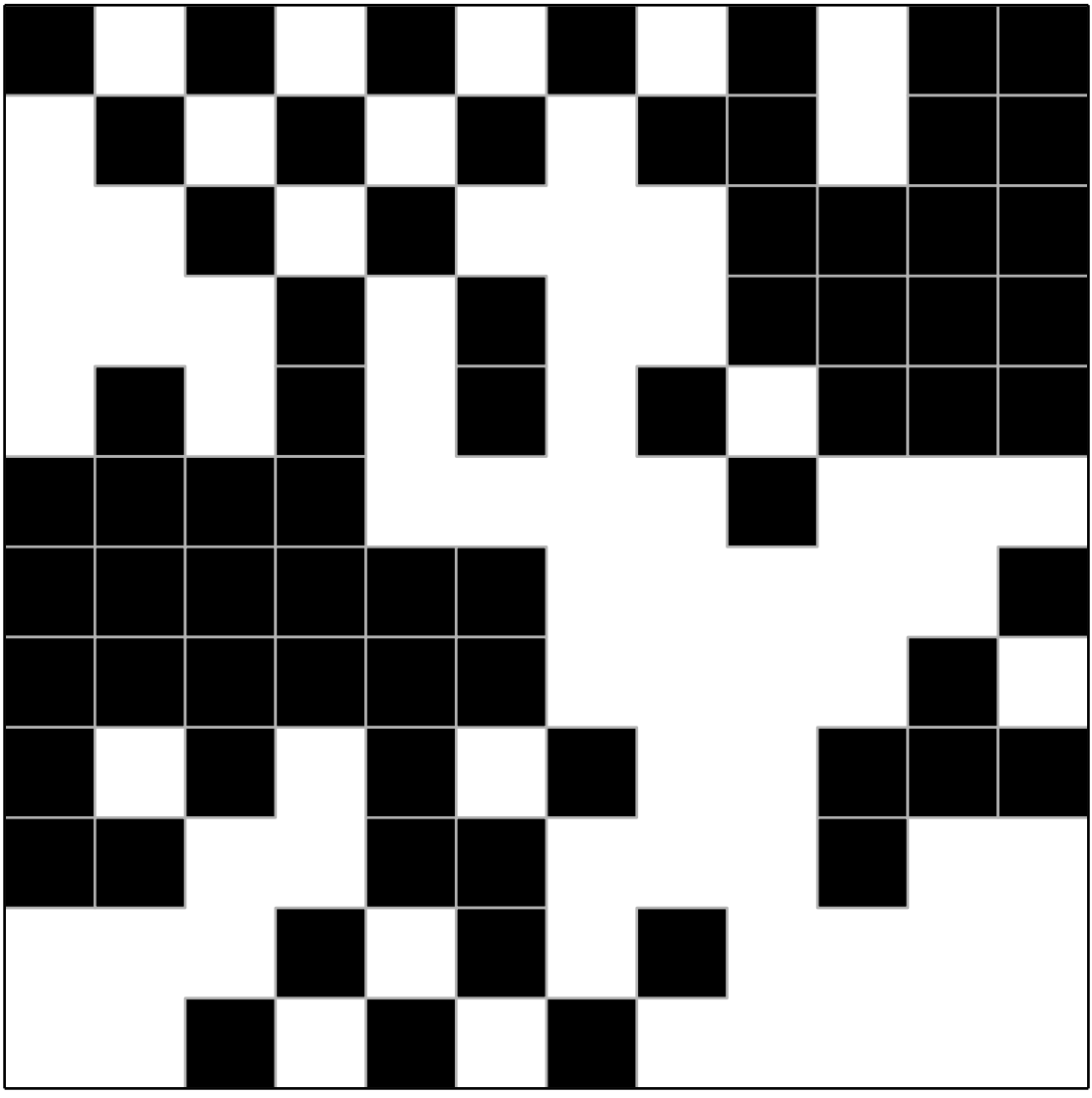
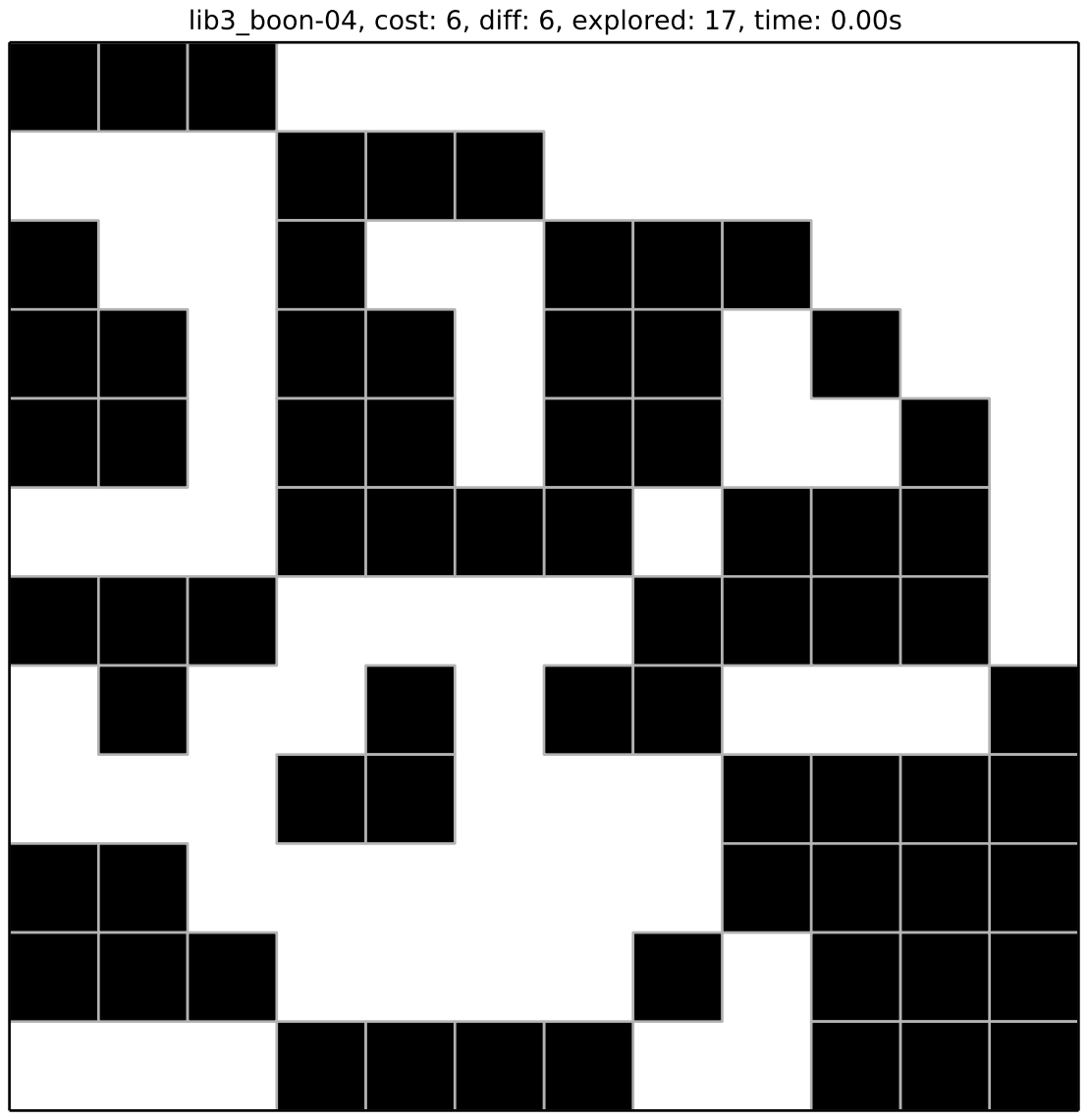
lib3_boon-04 12x12 (70) con: 6, var: 6

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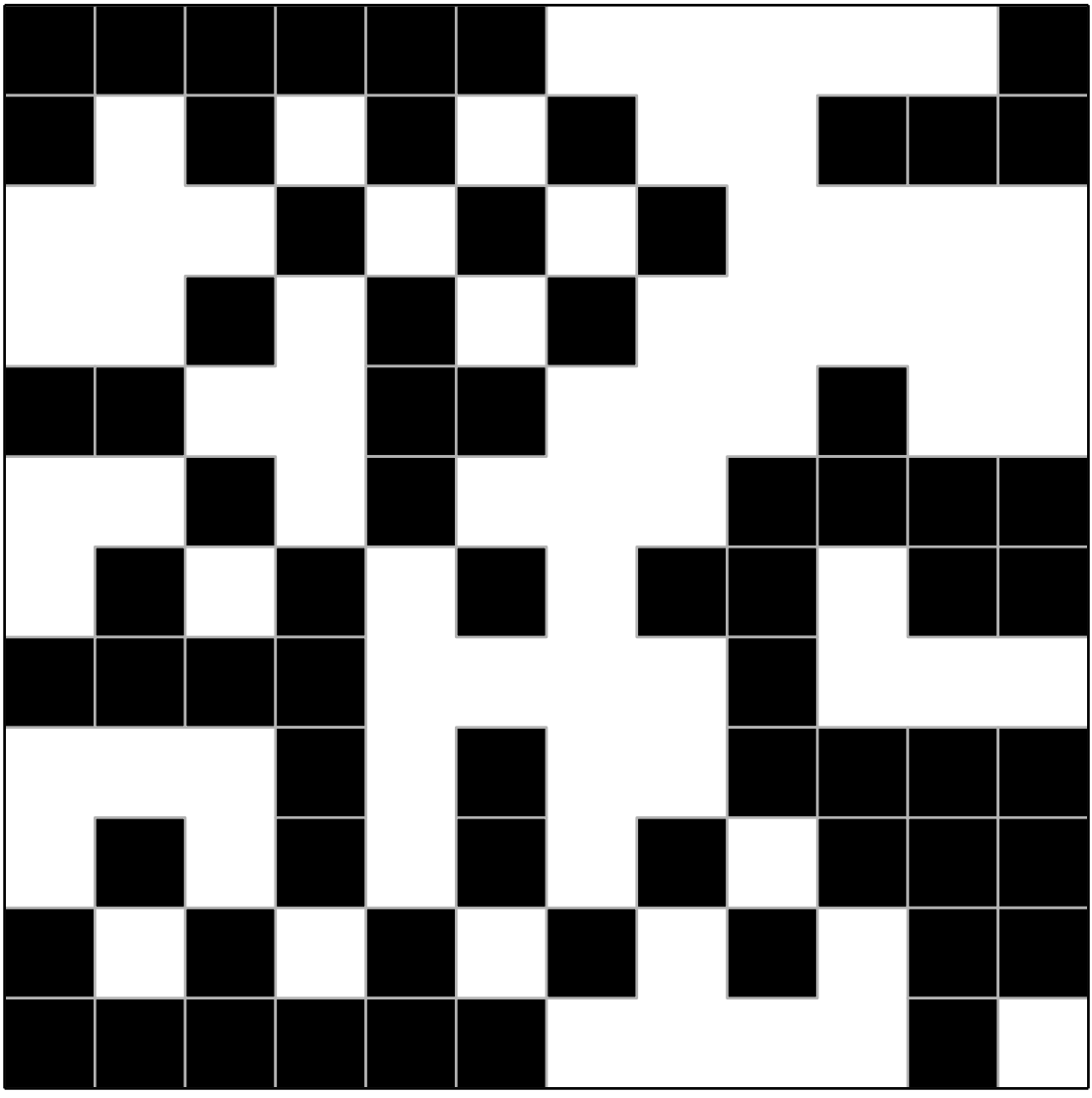
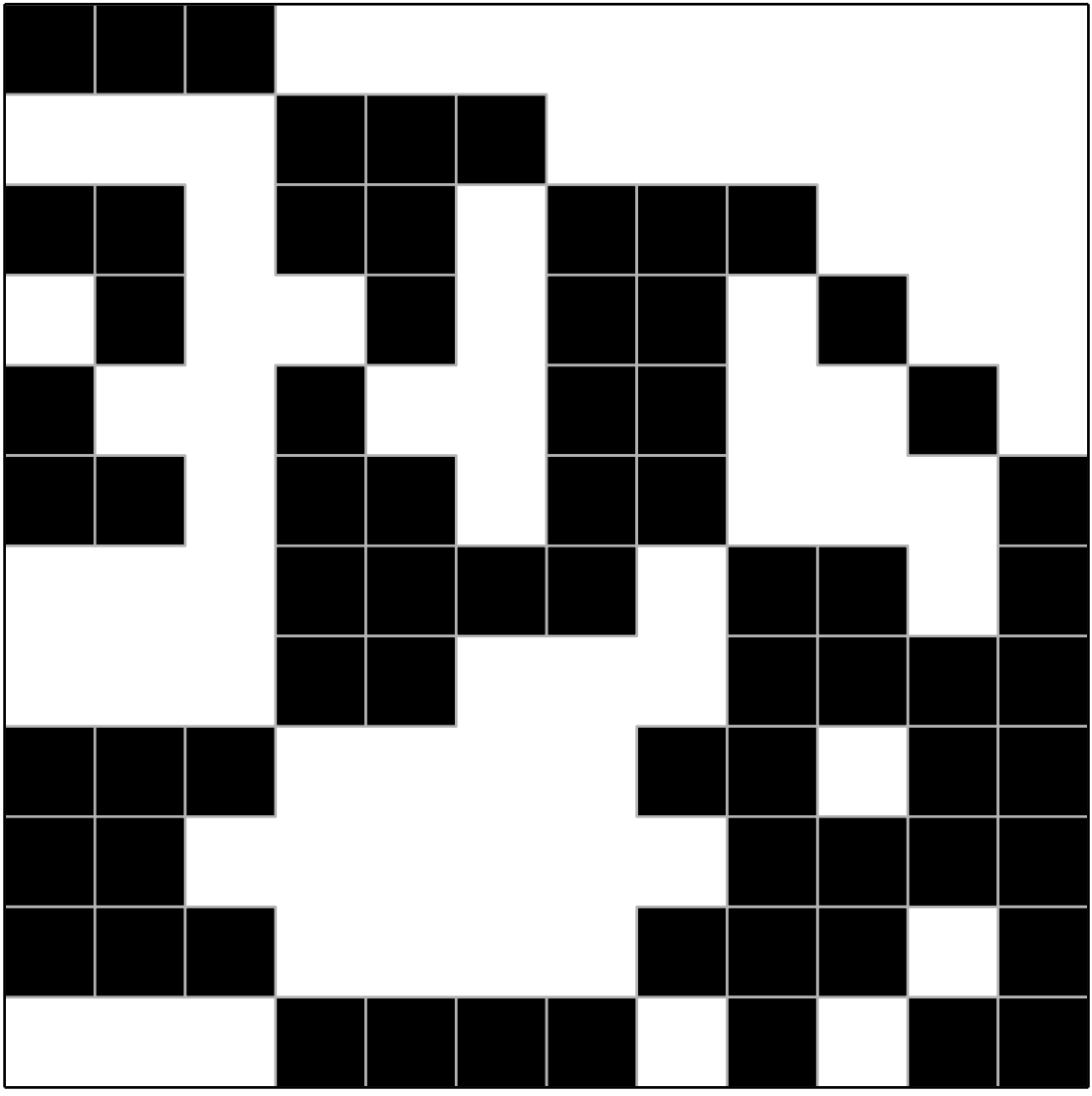
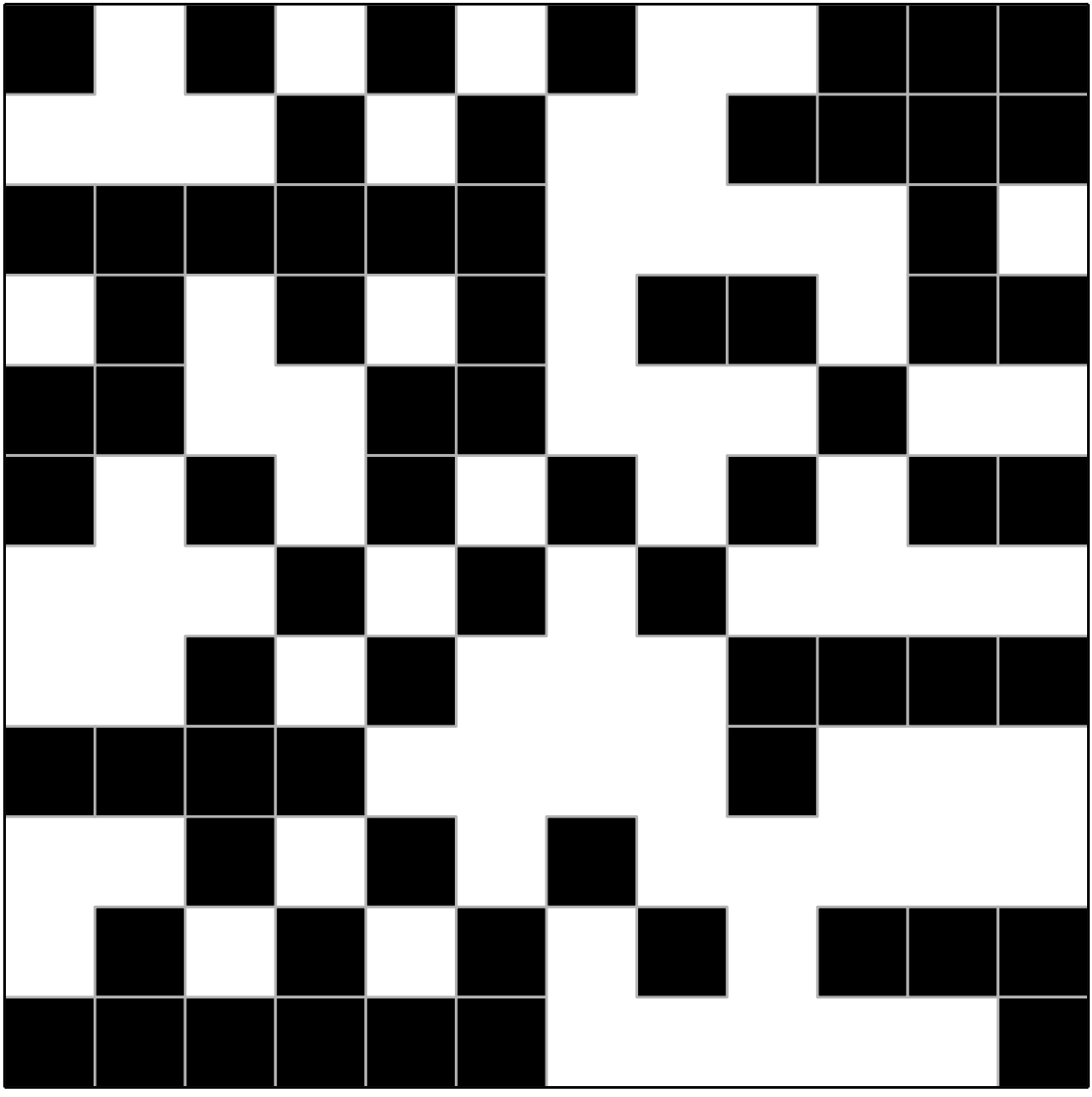
lib3_boon-05 12x12 (70) con: 6, var: 6



lib3_boon-05, cost: 6, diff: 6, explored: 17, time: 0.00s



lib3_boon-06 12x12 (70) con: 6, var: 6



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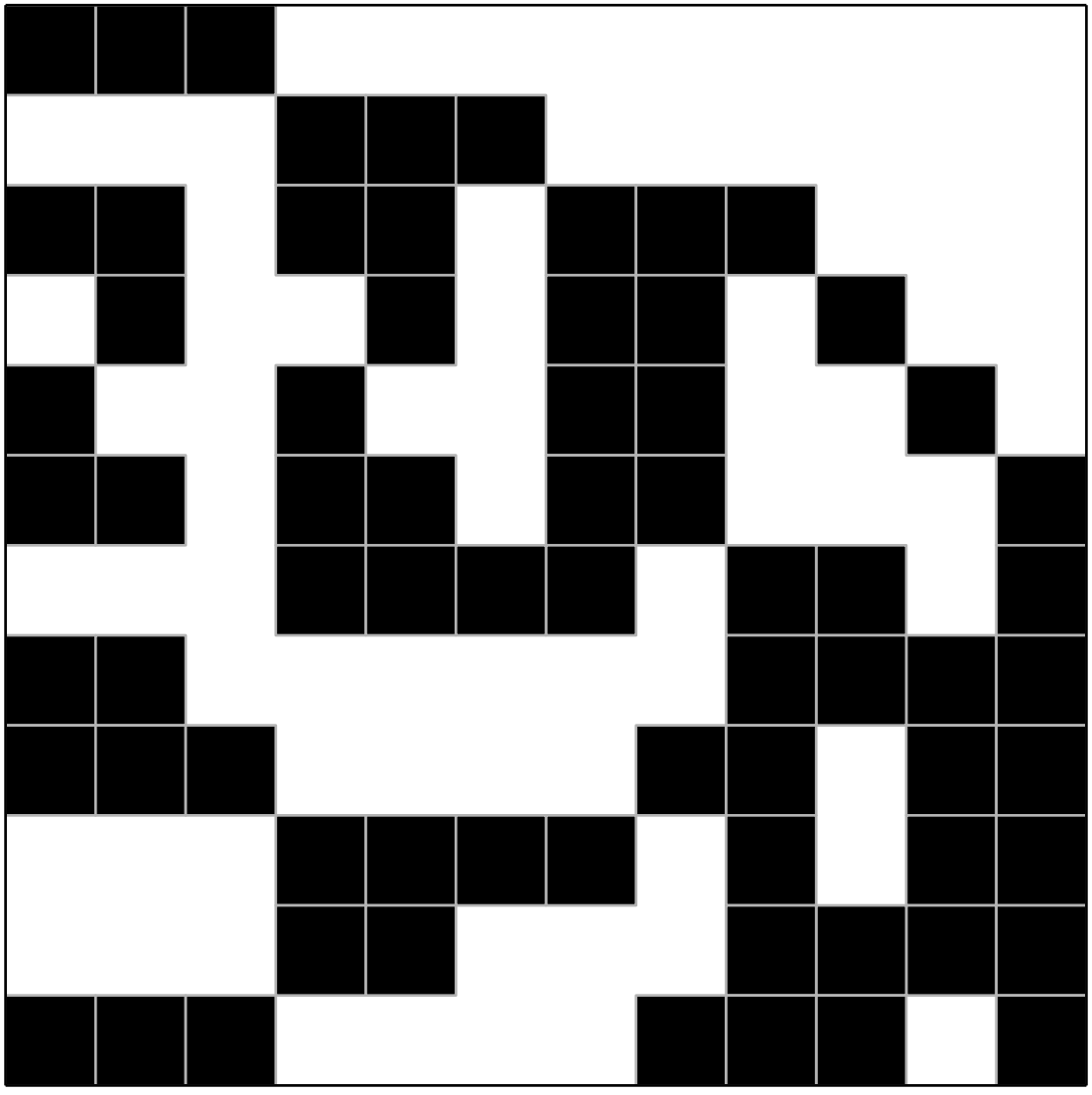
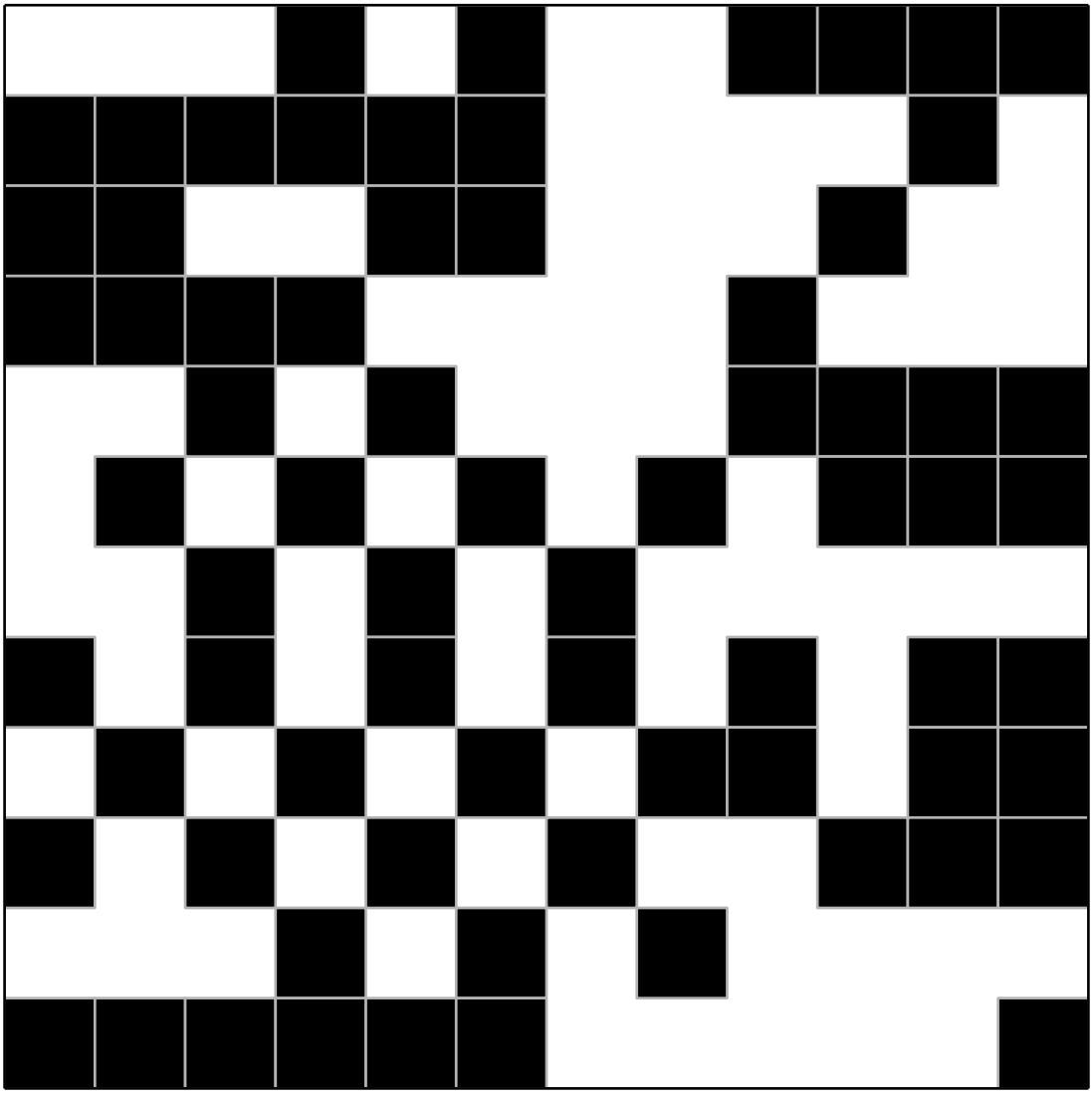
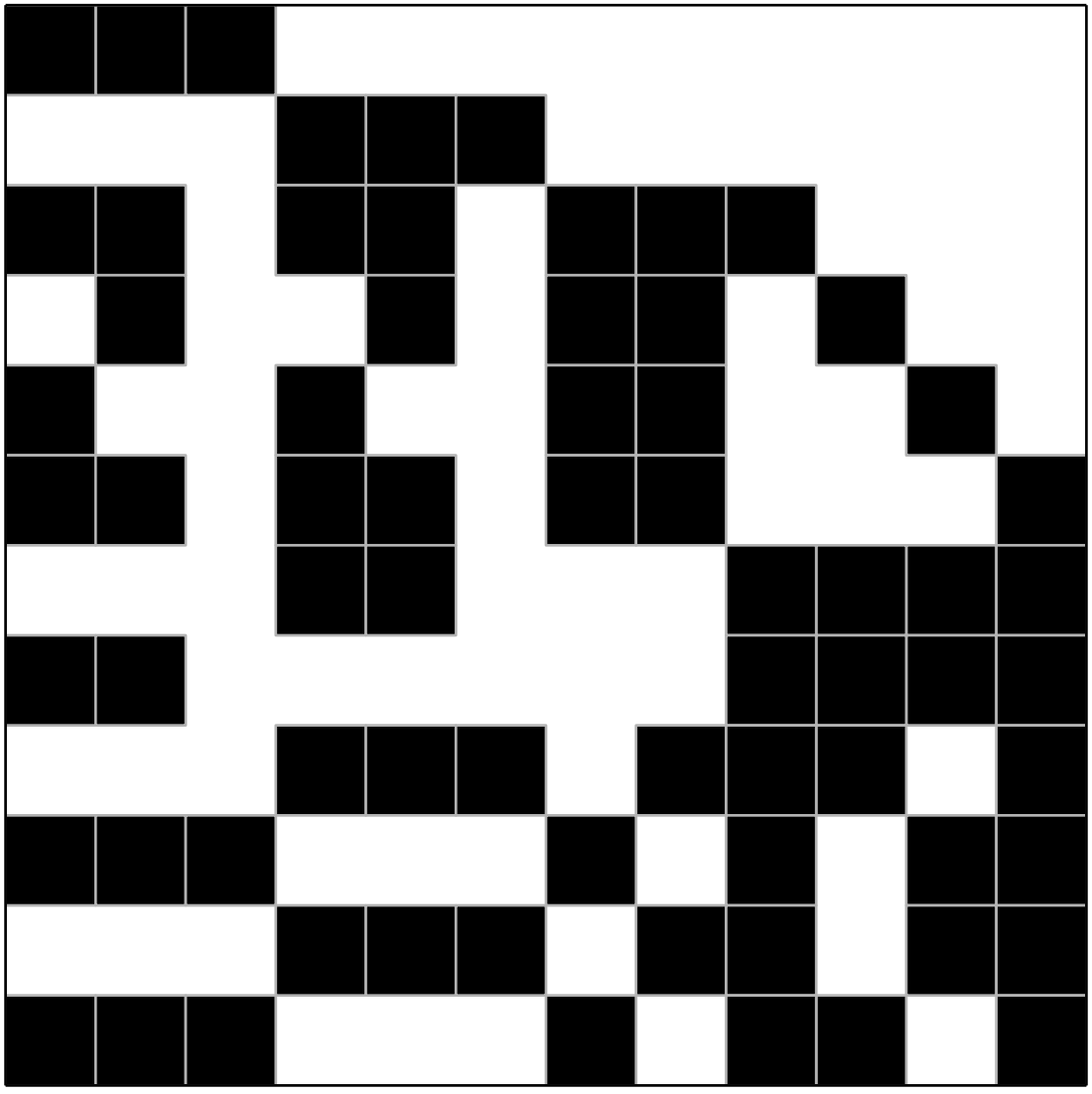


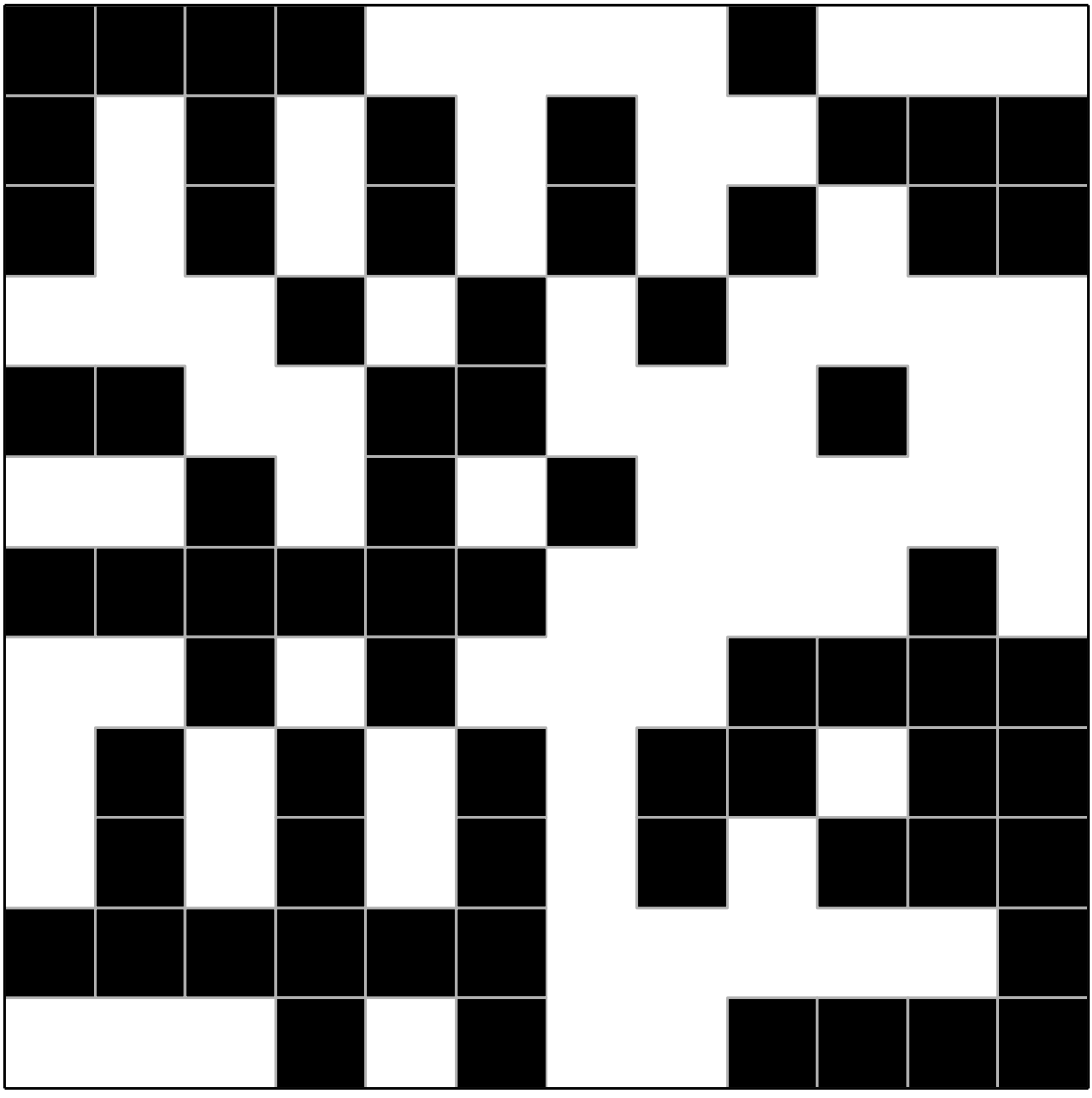
lib3_boon-07 12x12 (70) con: 6, var: 6



lib3_boon-07, cost: 6, diff: 6, explored: 17, time: 0.00s



lib3_boon-08 12x12 (70) con: 6, var: 6



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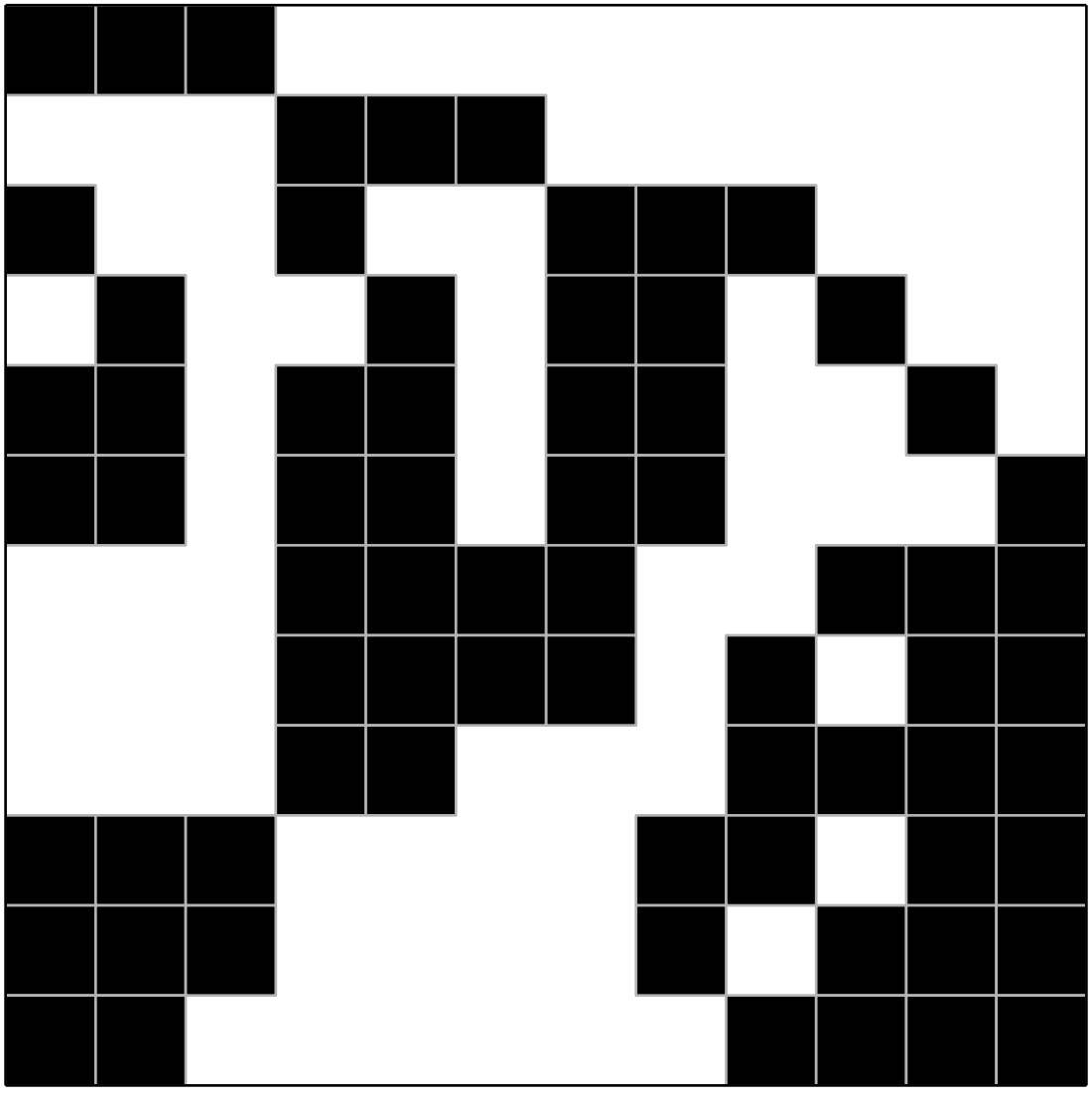
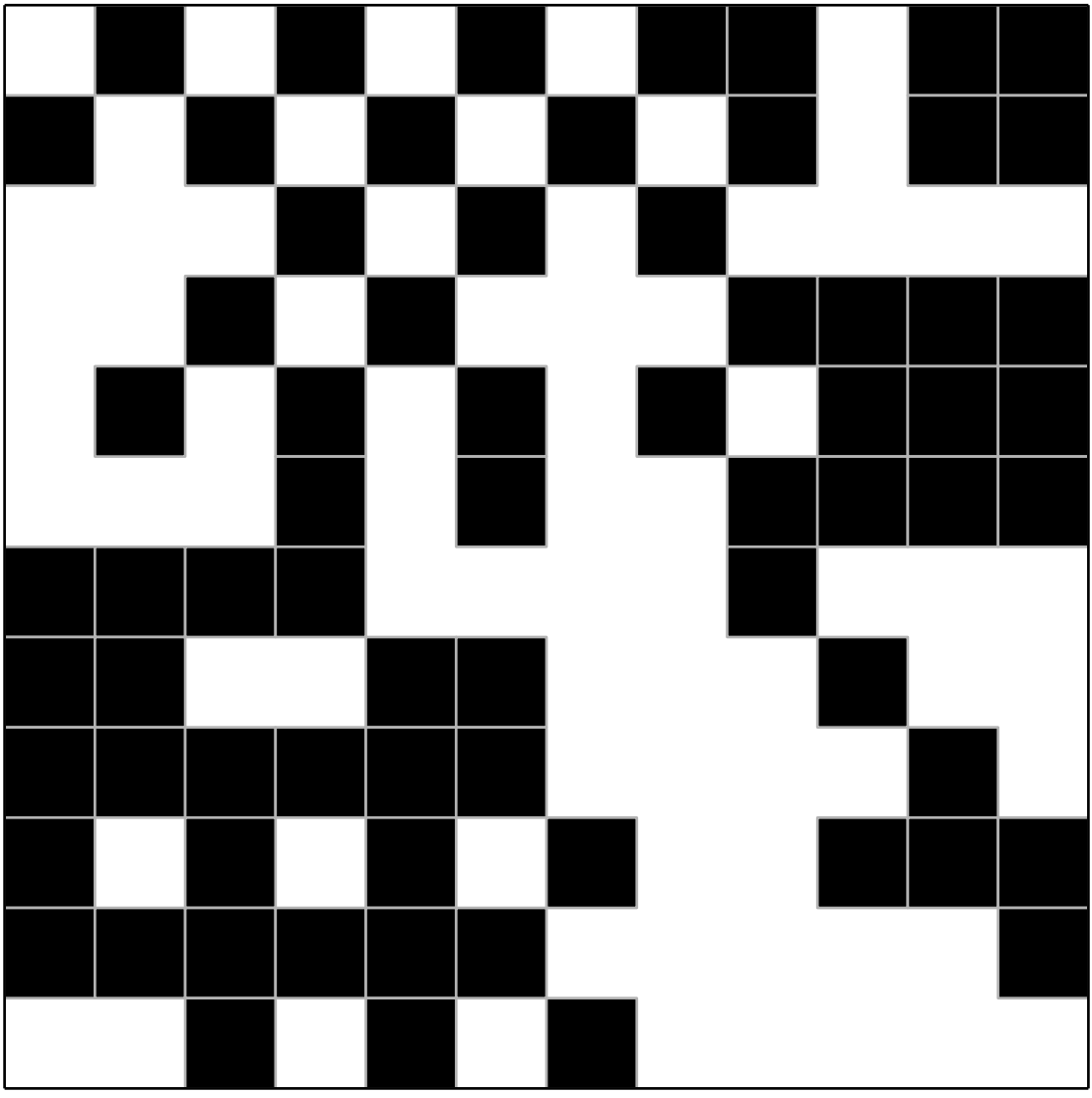
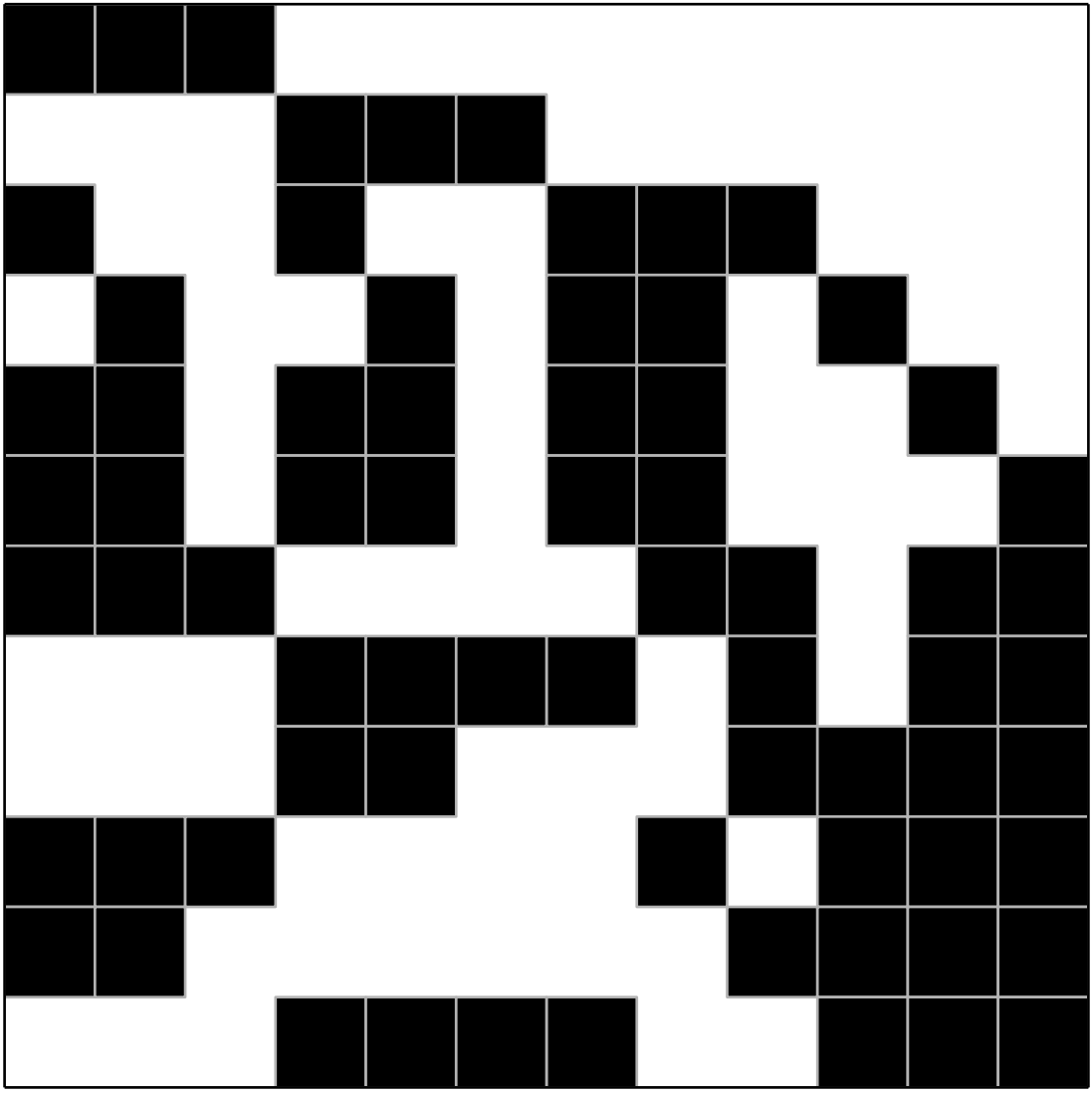
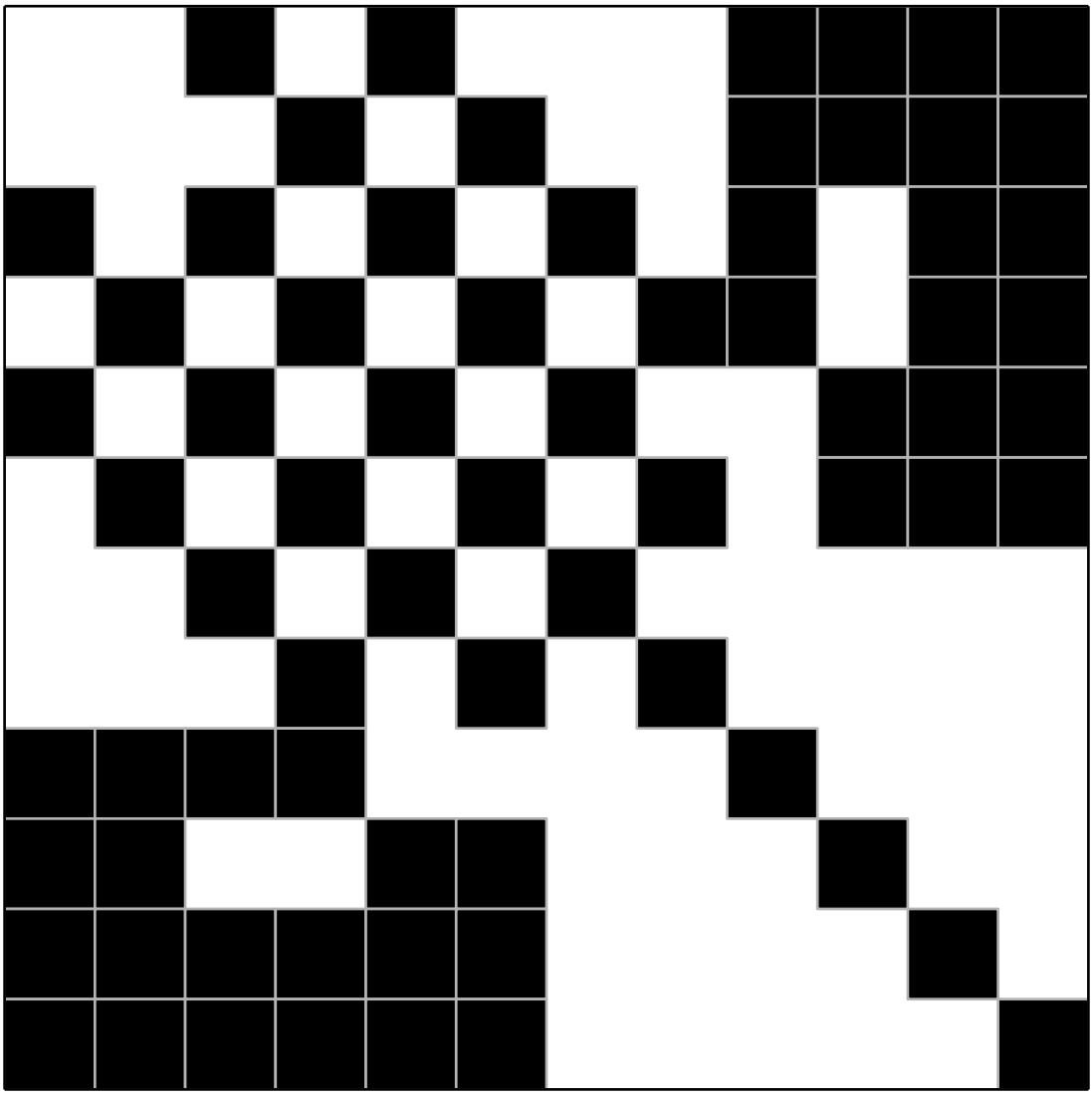


lib3_boon-09 12x12 (70) con: 6, var: 6

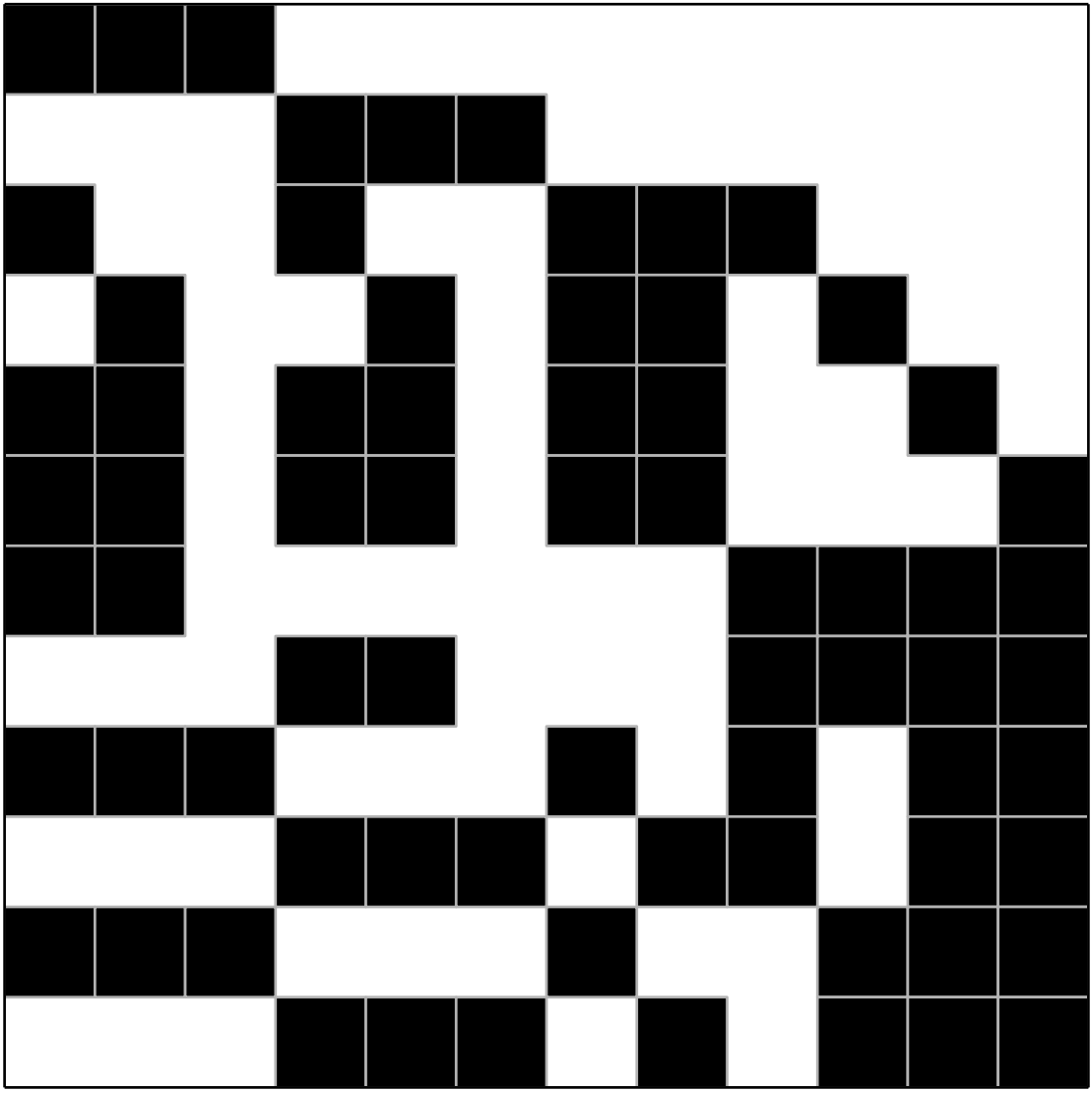


lib3_boon-09, cost: 6, diff: 6, explored: 17, time: 0.00s

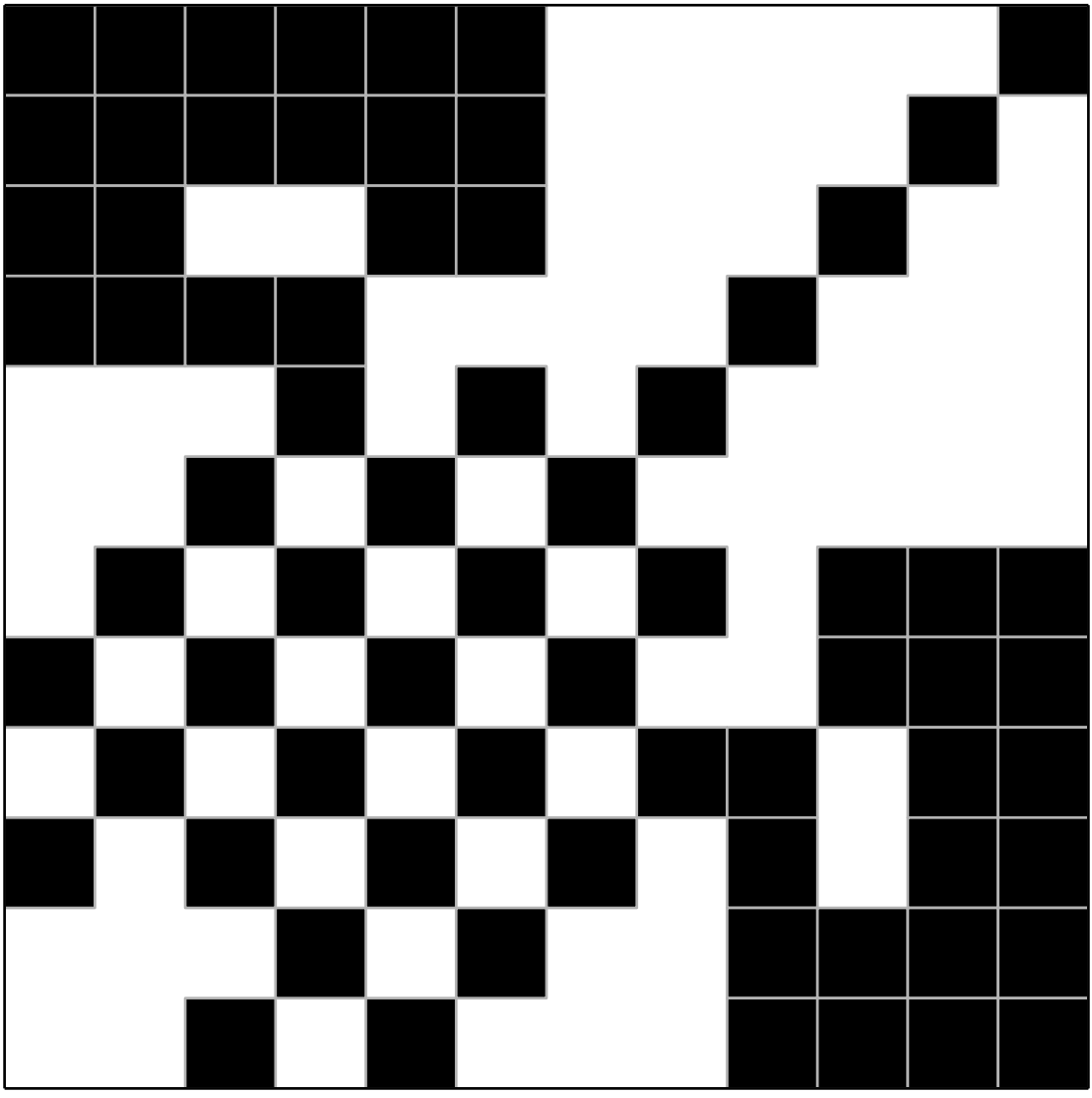


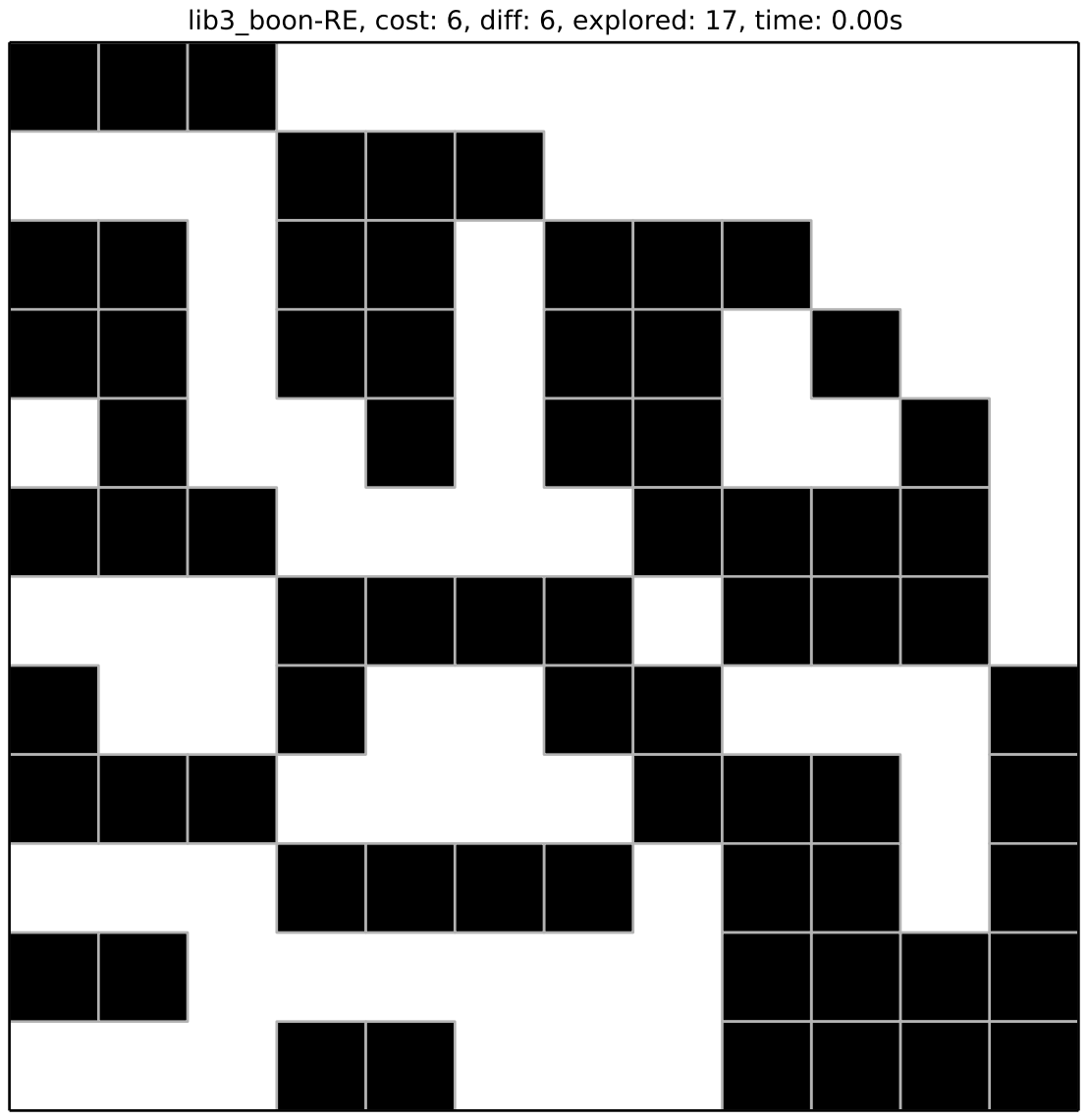

lib3_boon-IN 12x12 (70) con: 6, var: 6

lib3_boon-IN, cost: 6, diff: 6, explored: 17, time: 0.00s



lib3_boon-RE 12x12 (70) con: 6, var: 6

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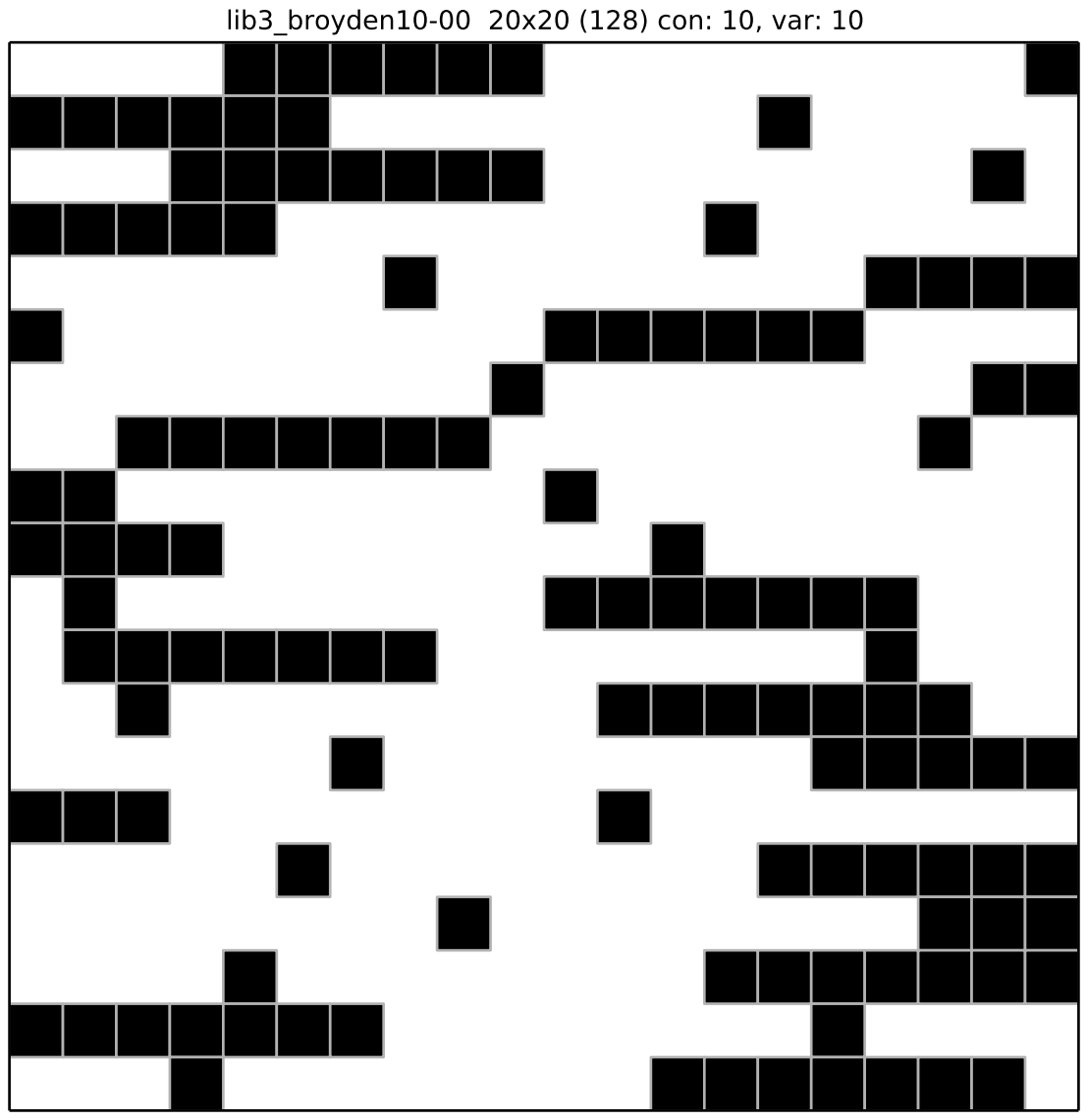
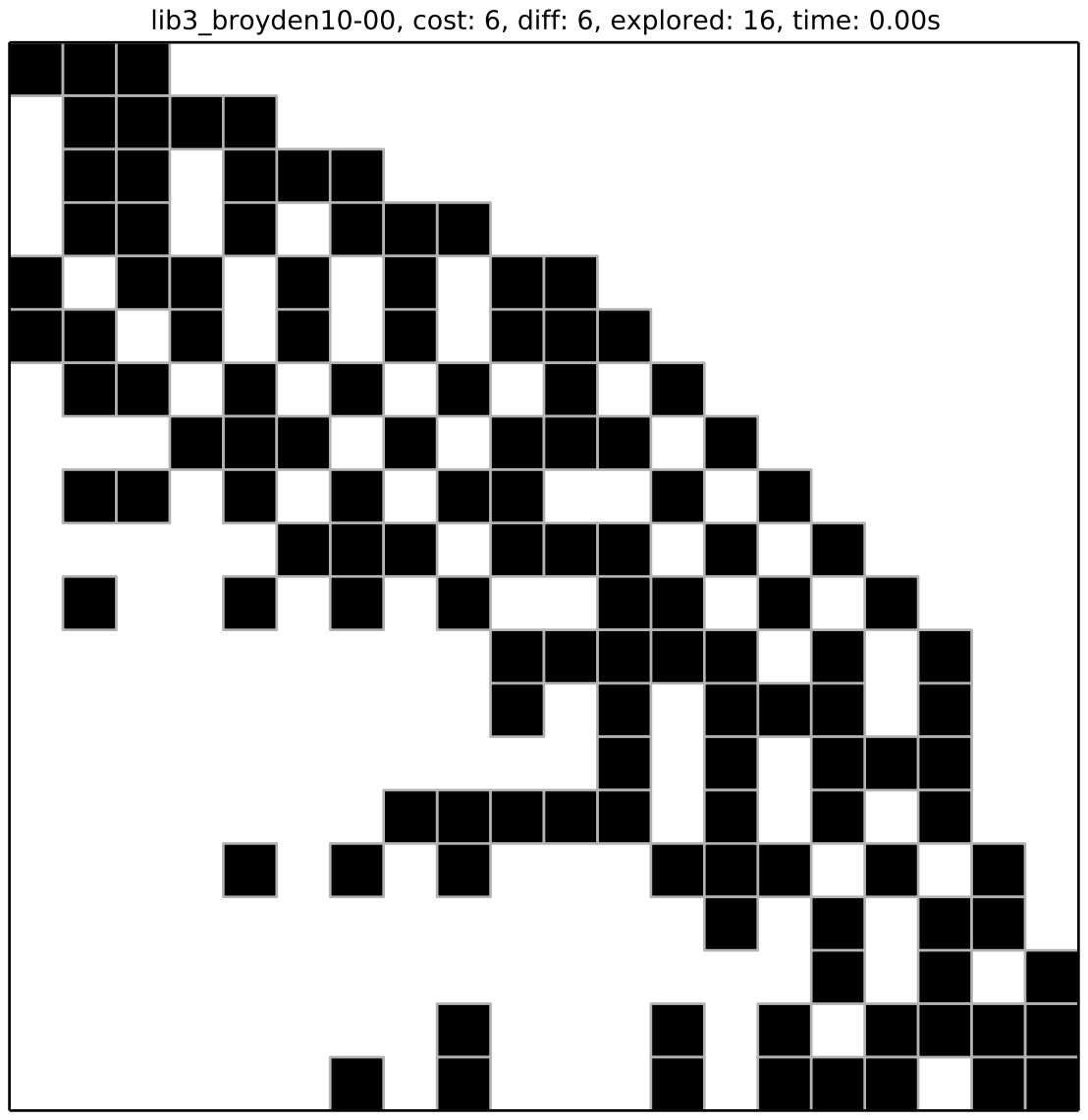
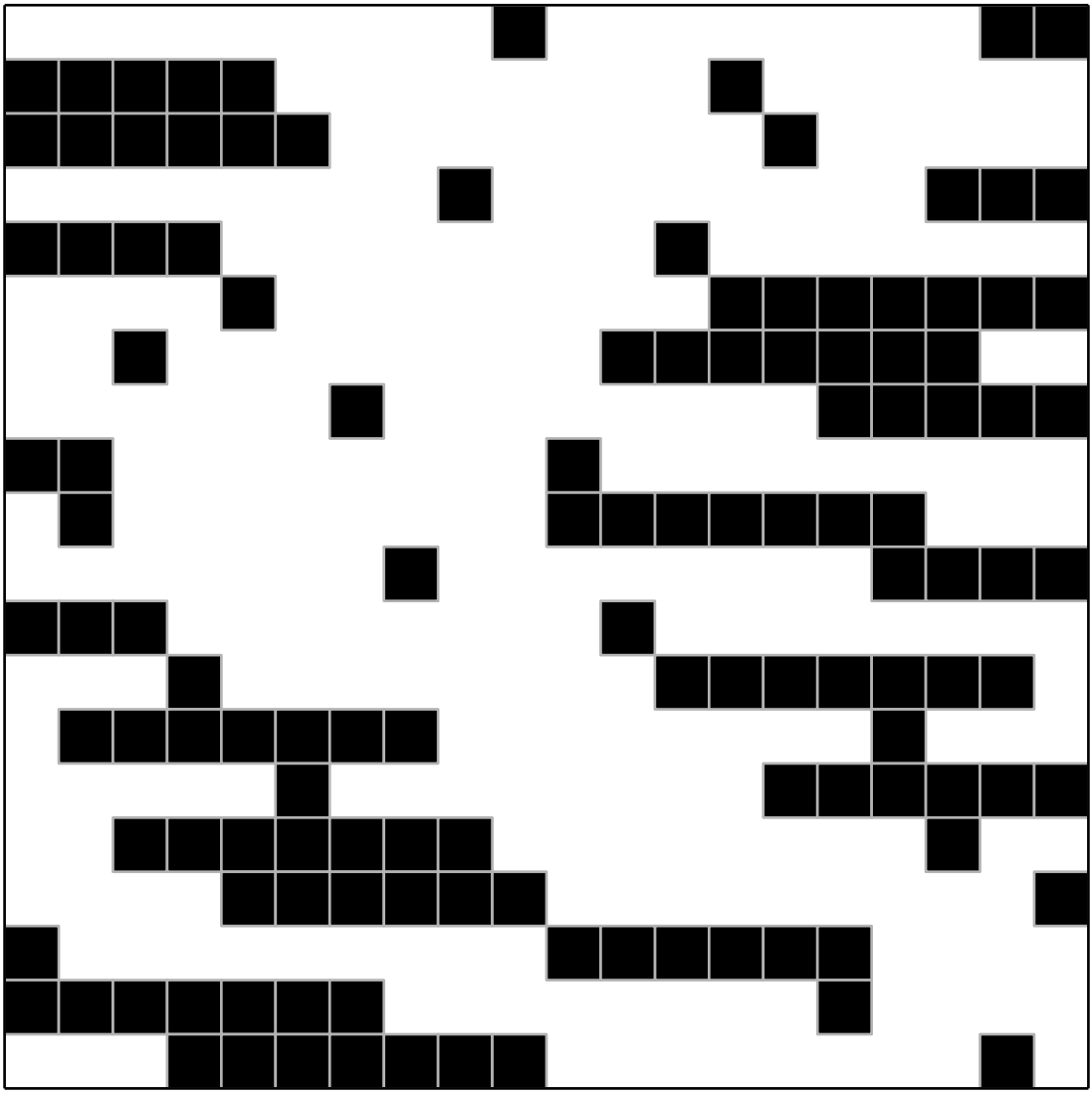
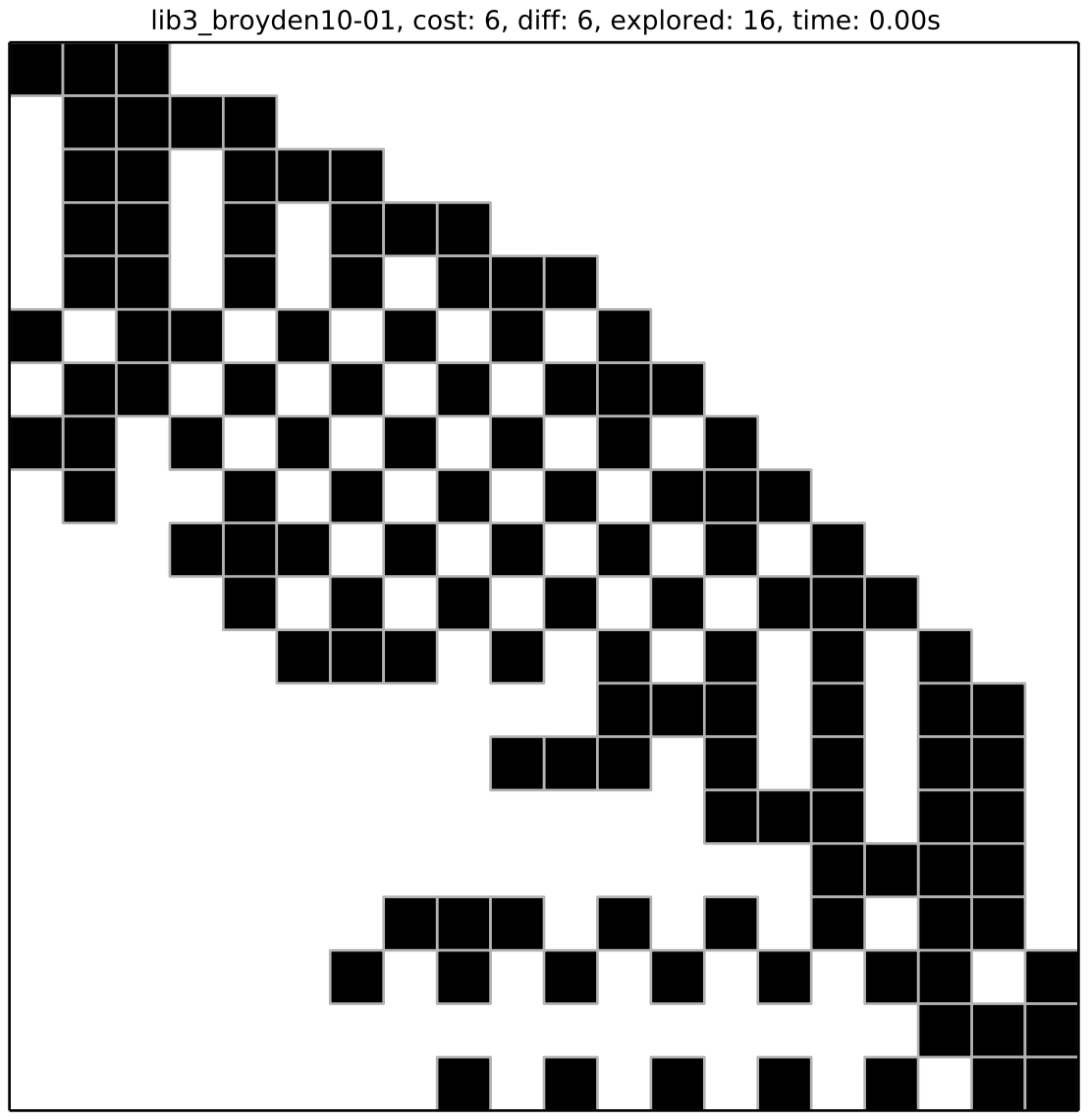

lib3_broyden10-00 20x20 (128) con: 10, var: 10

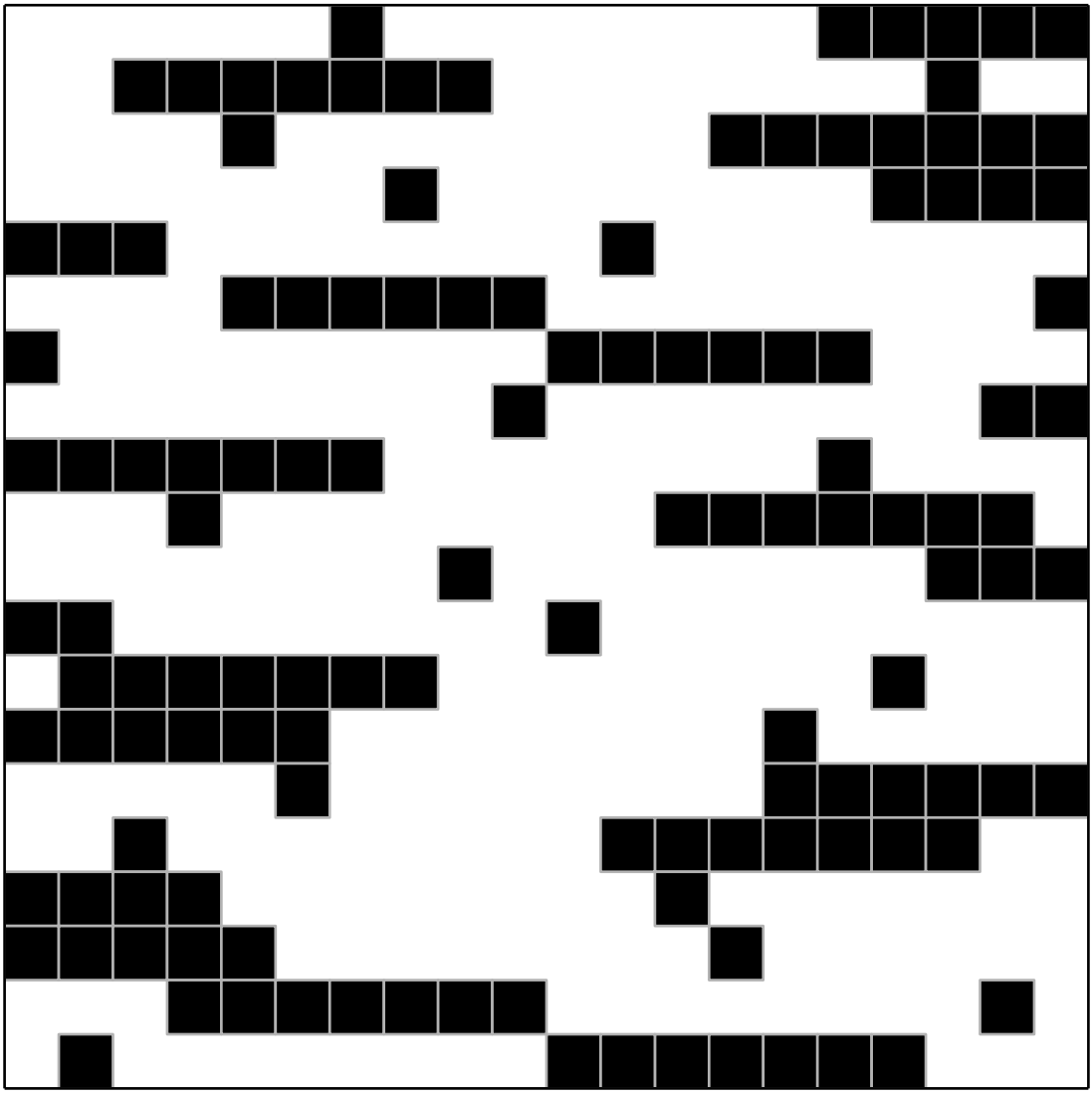

lib3_broyden10-00, cost: 6, diff: 6, explored: 16, time: 0.00s

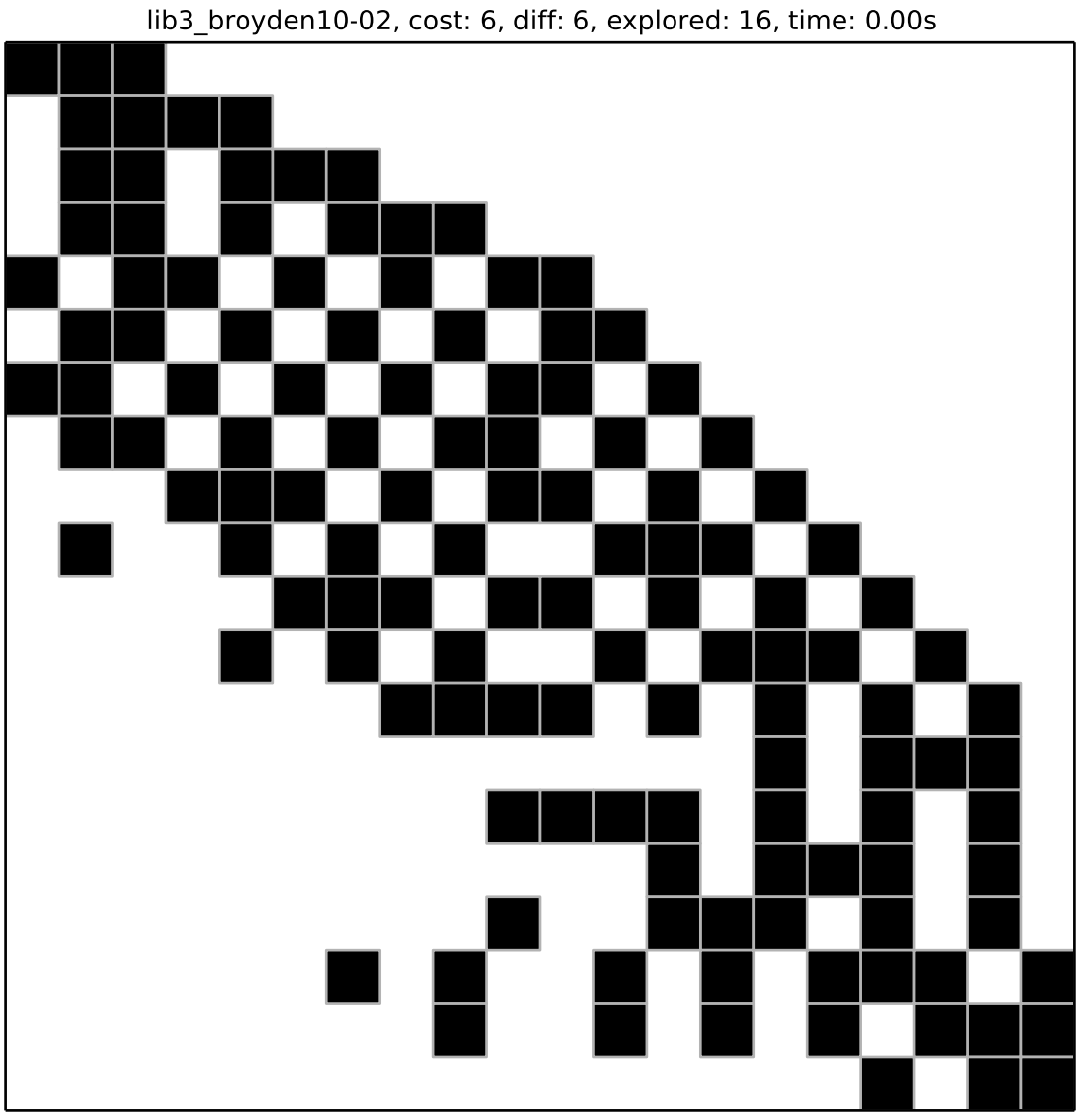
lib3_broyden10-01 20x20 (128) con: 10, var: 10




lib3_broyden10-01, cost: 6, diff: 6, explored: 16, time: 0.00s

lib3_broyden10-02 20x20 (128) con: 10, var: 10

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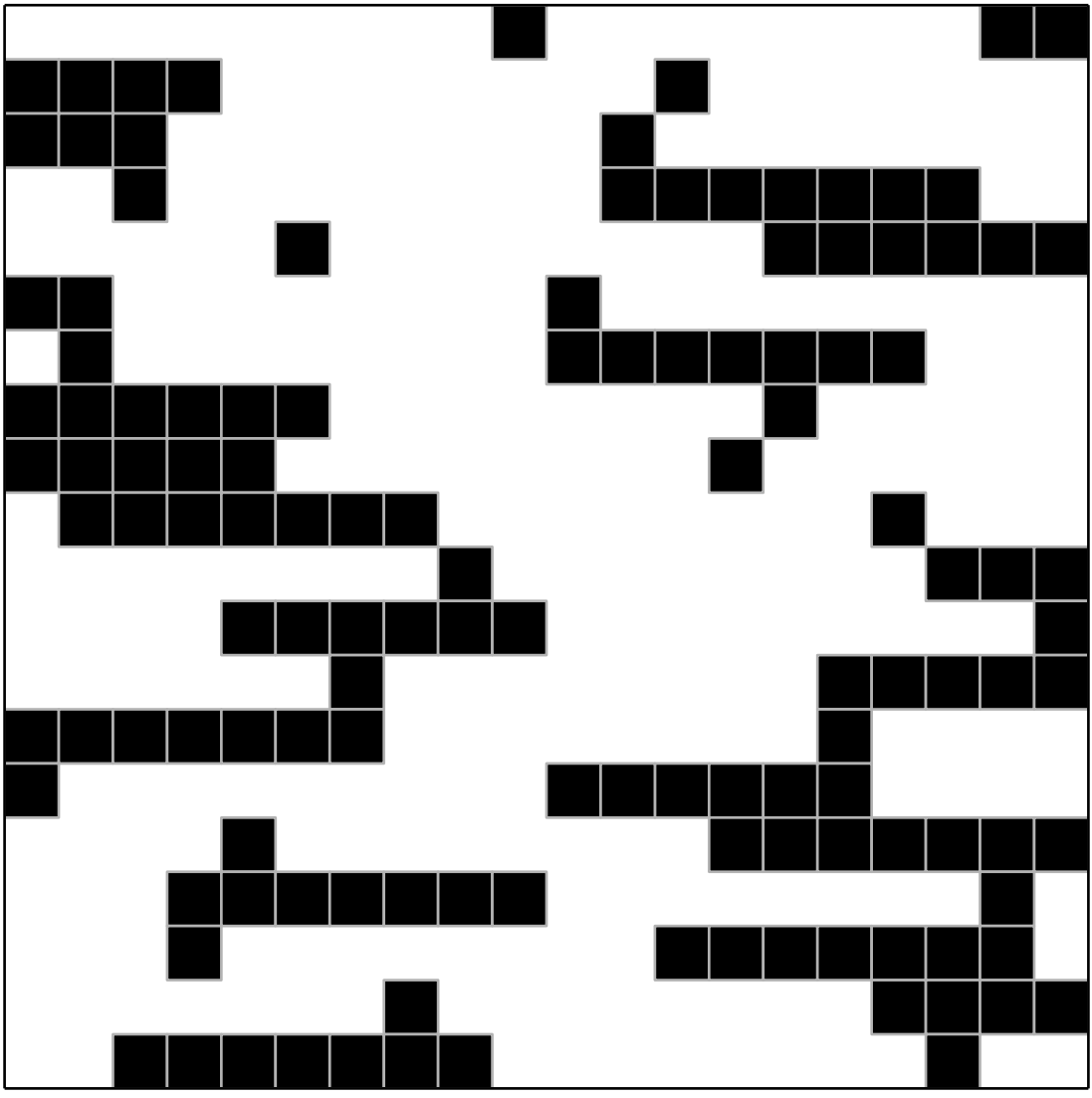
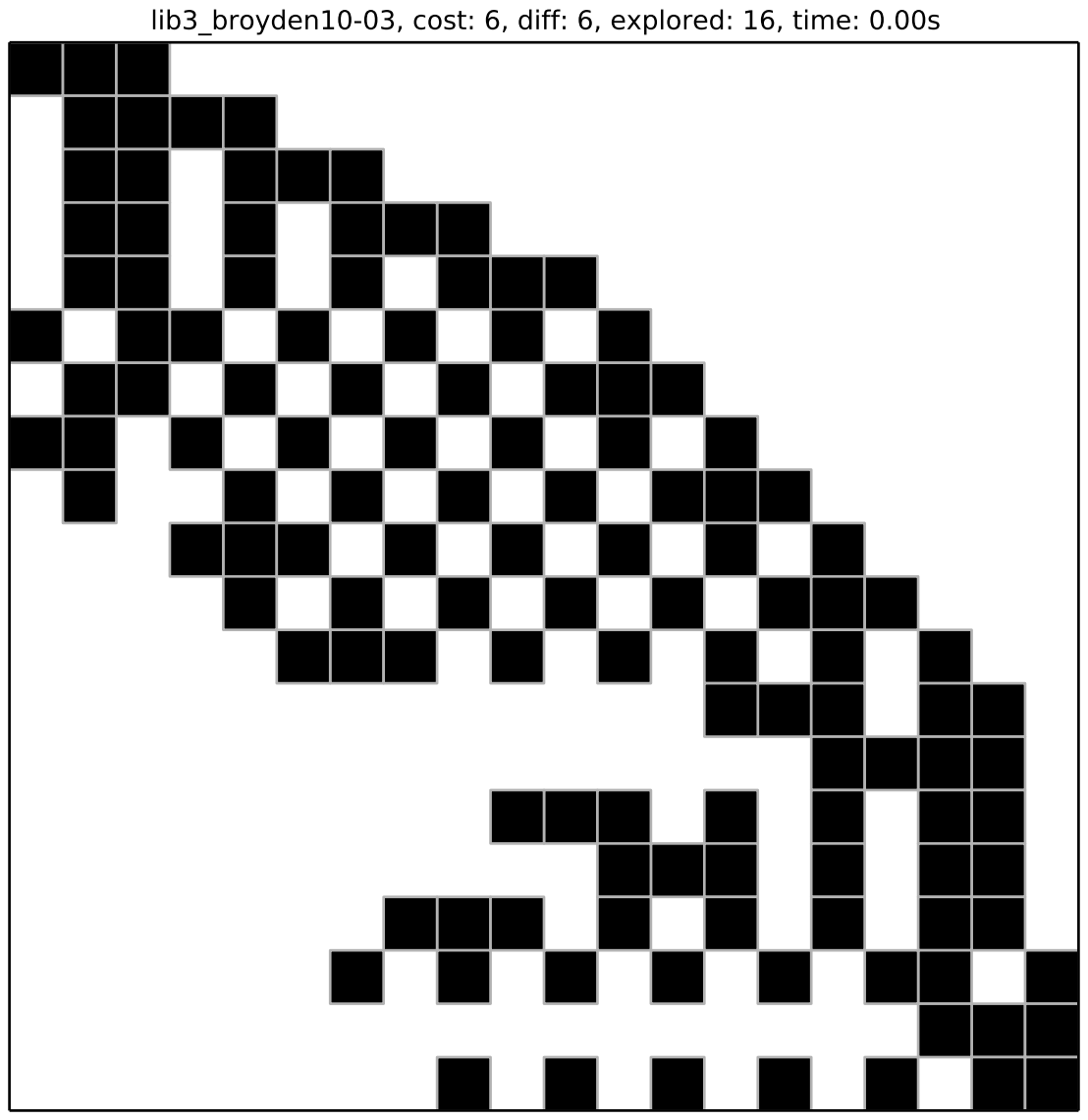
lib3_broyden10-03 20x20 (128) con: 10, var: 10

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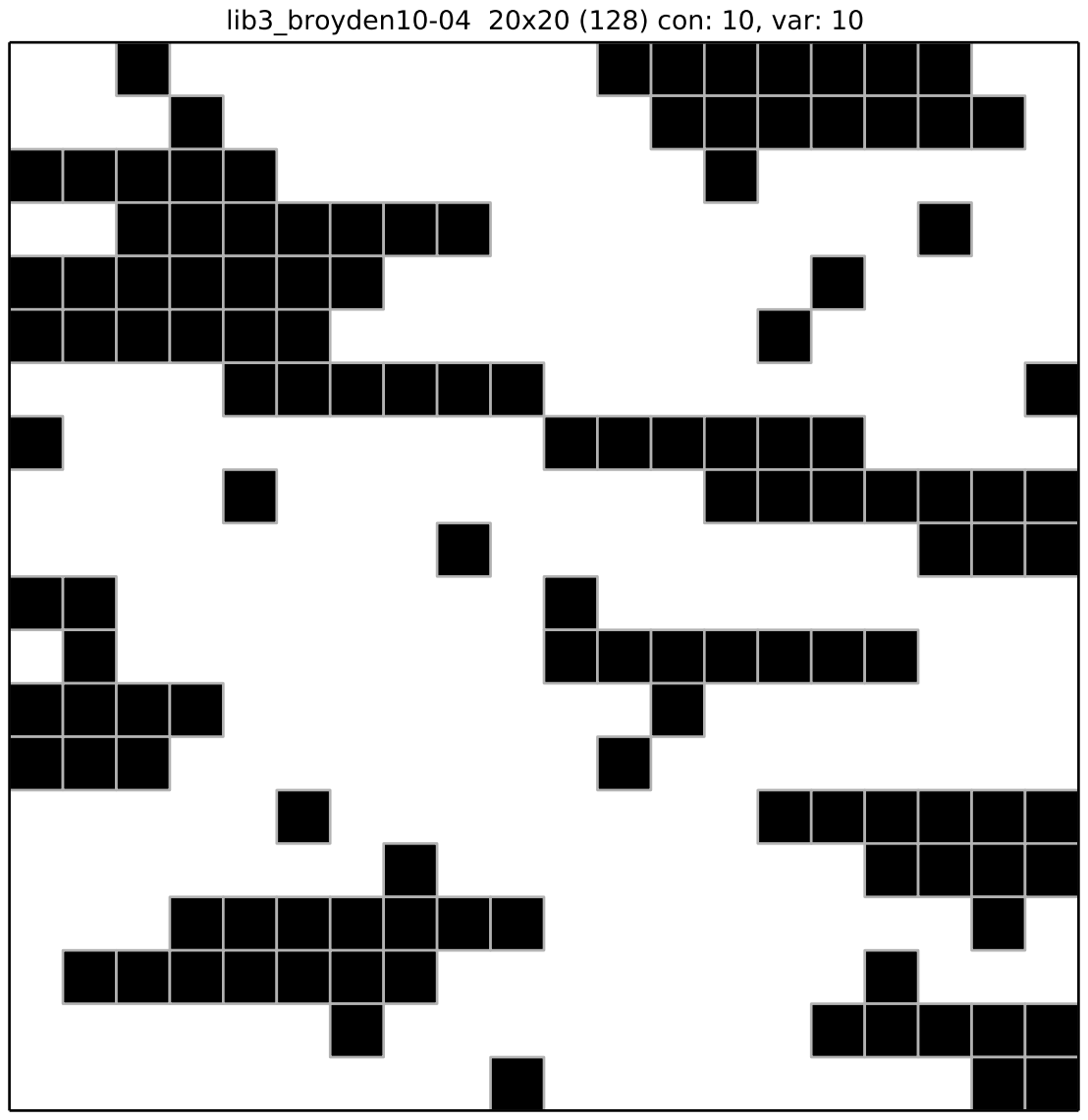
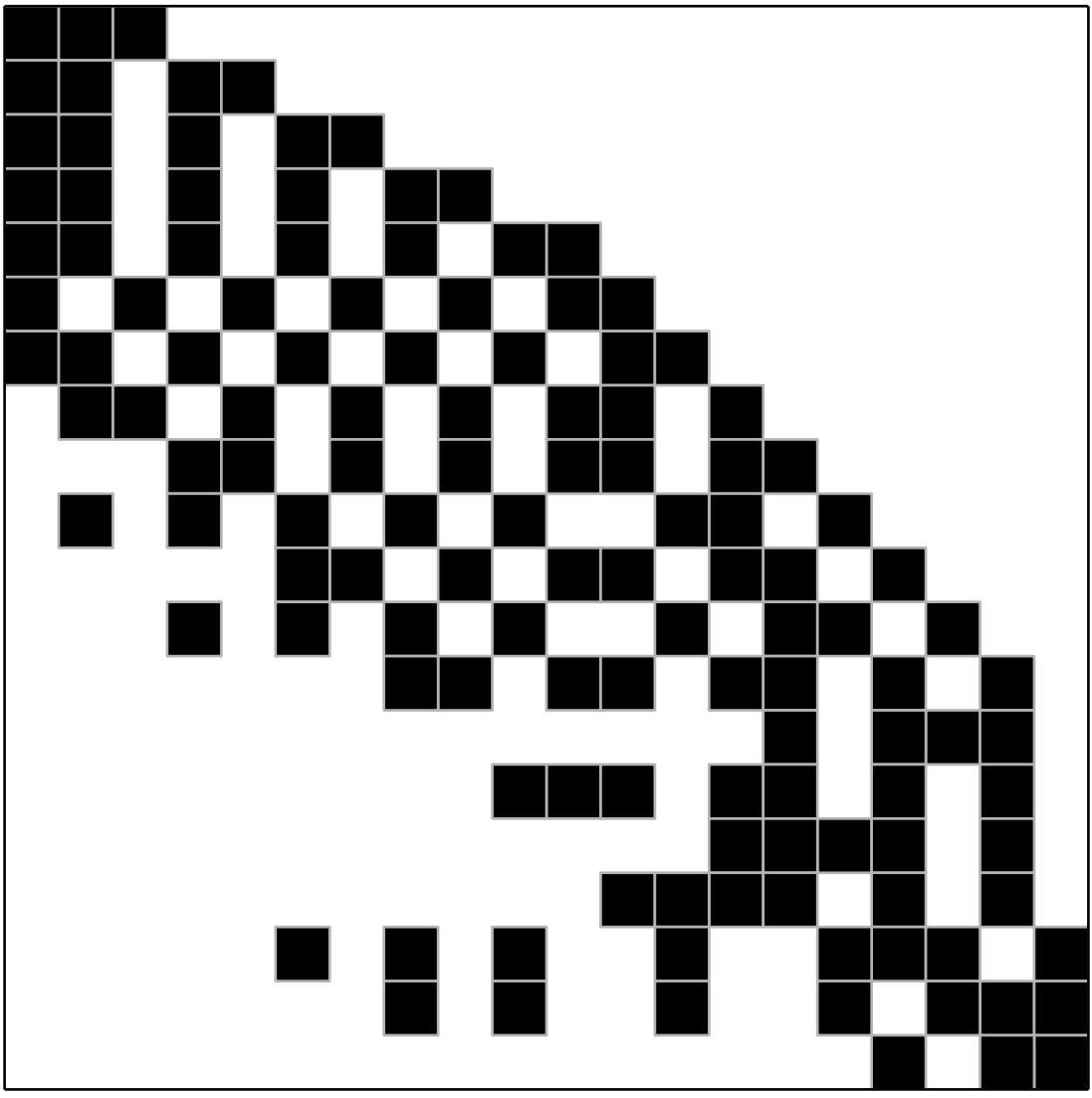

lib3_broyden10-04 20x20 (128) con: 10, var: 10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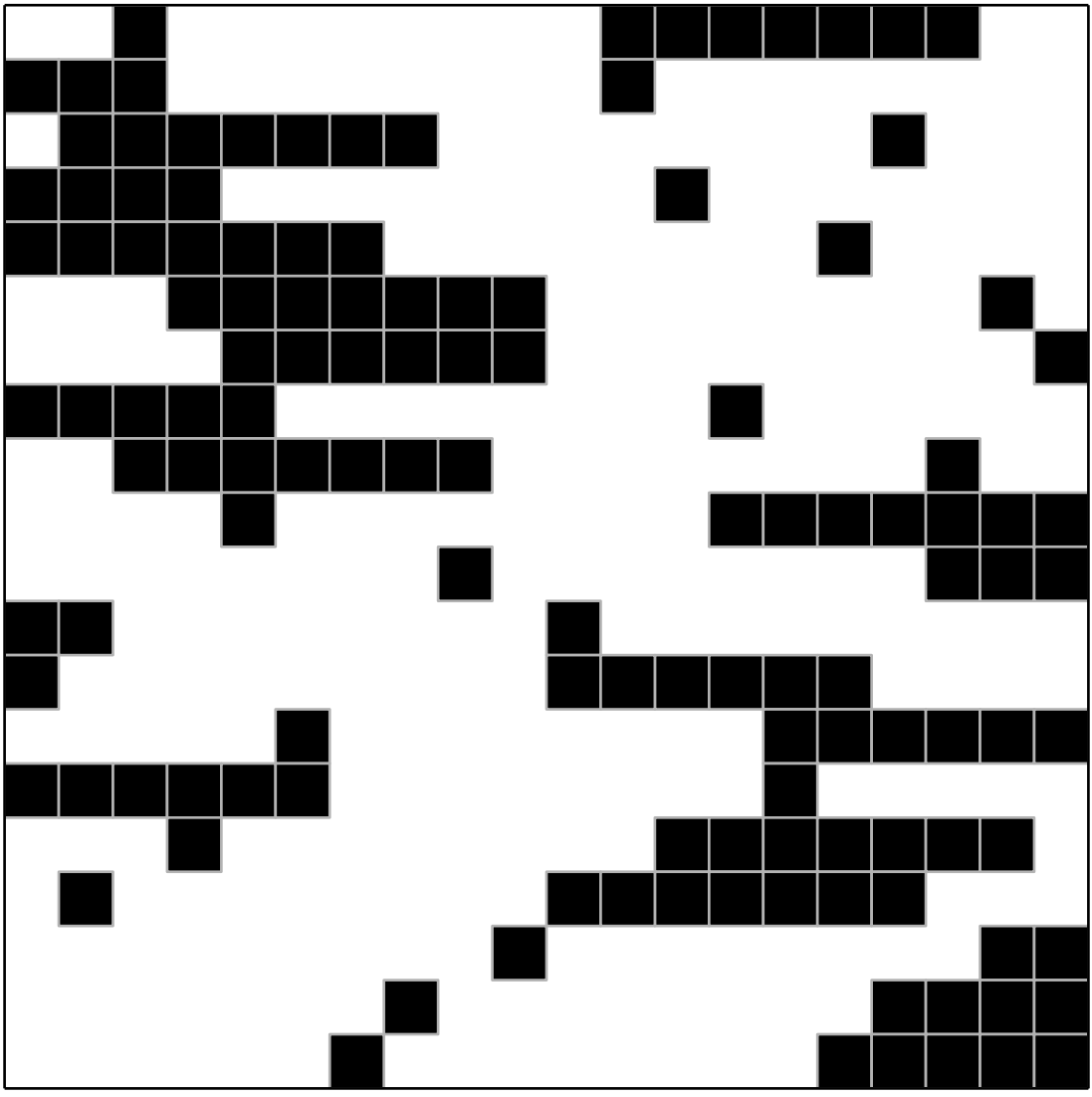

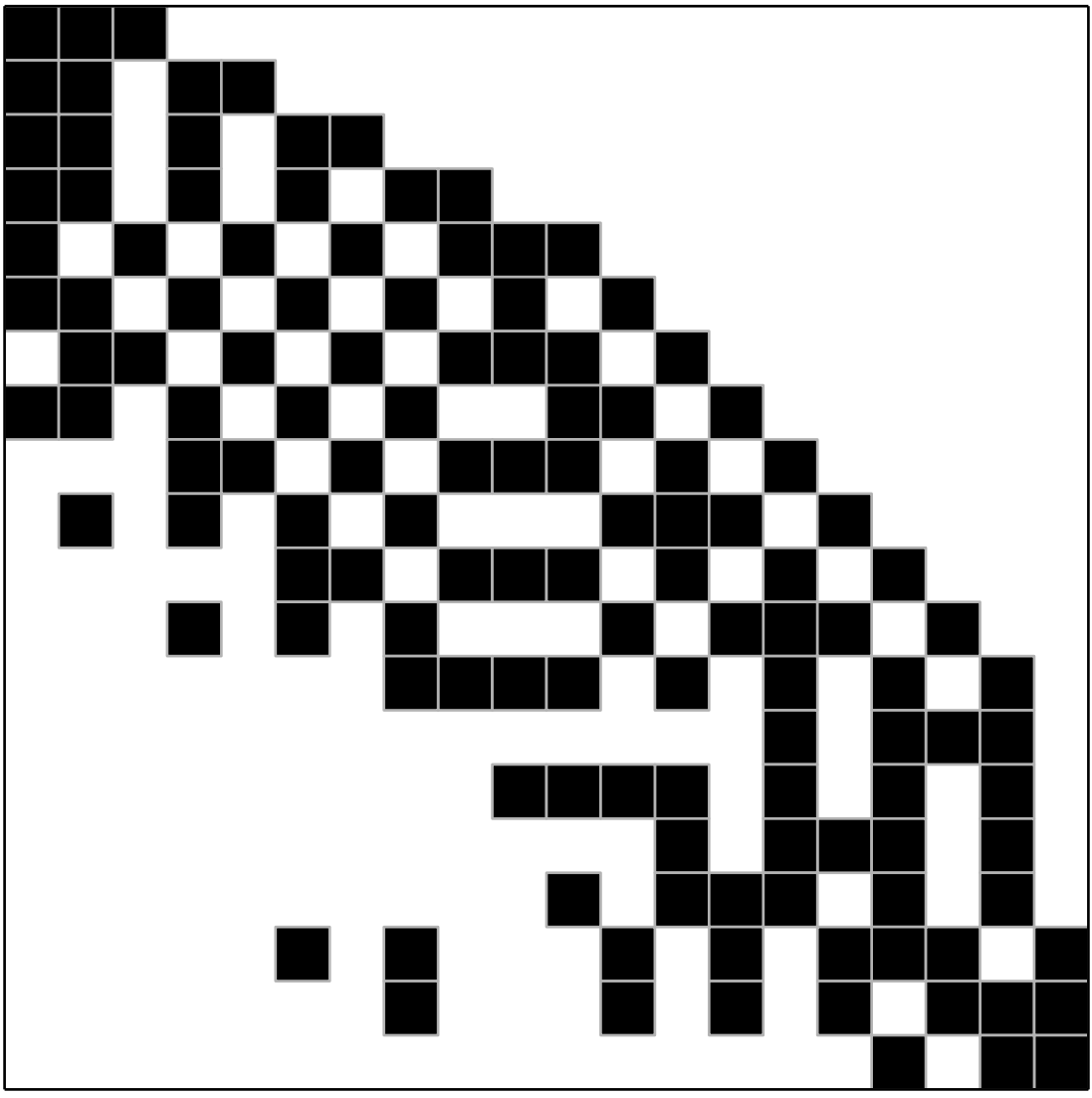
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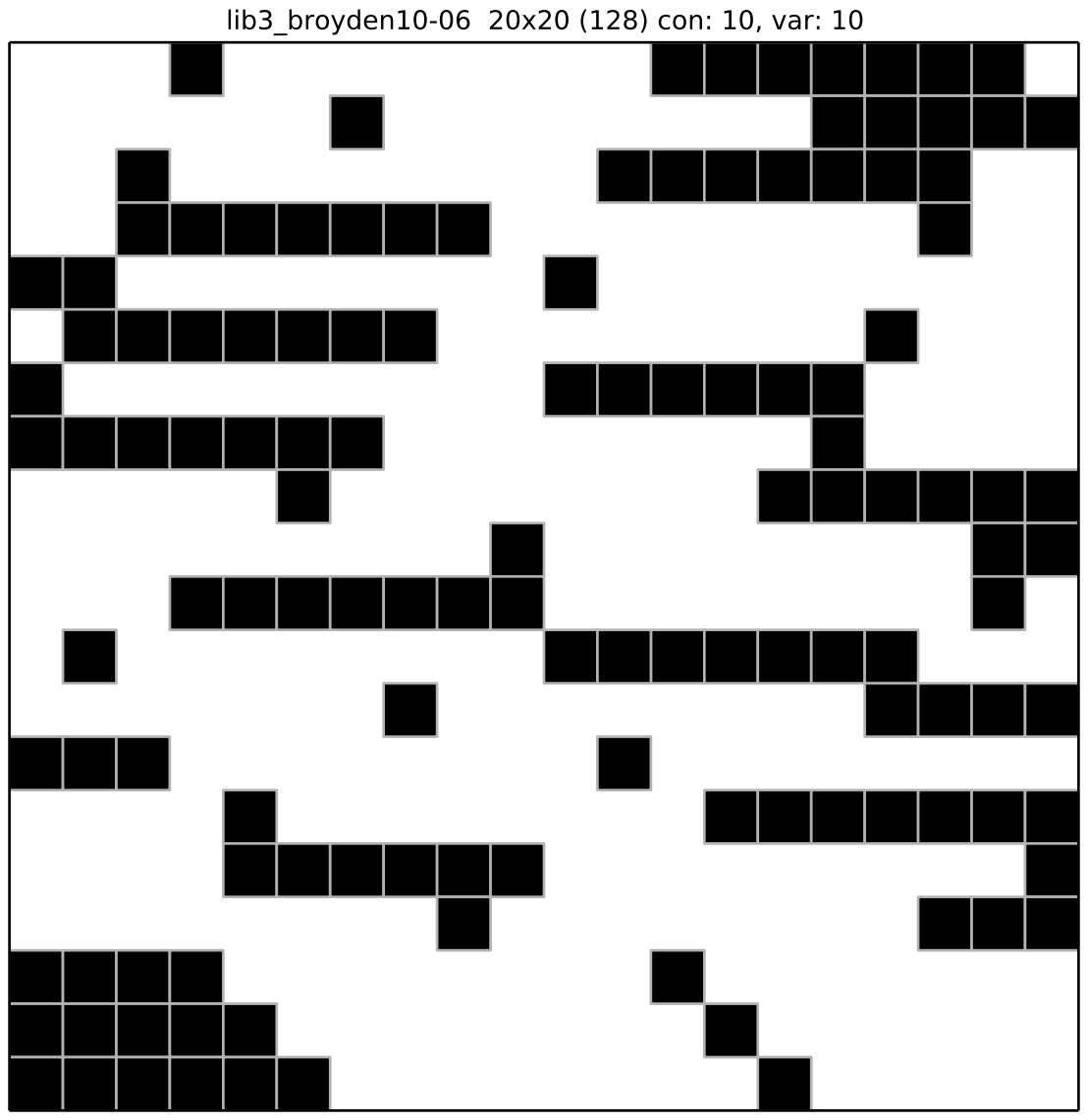
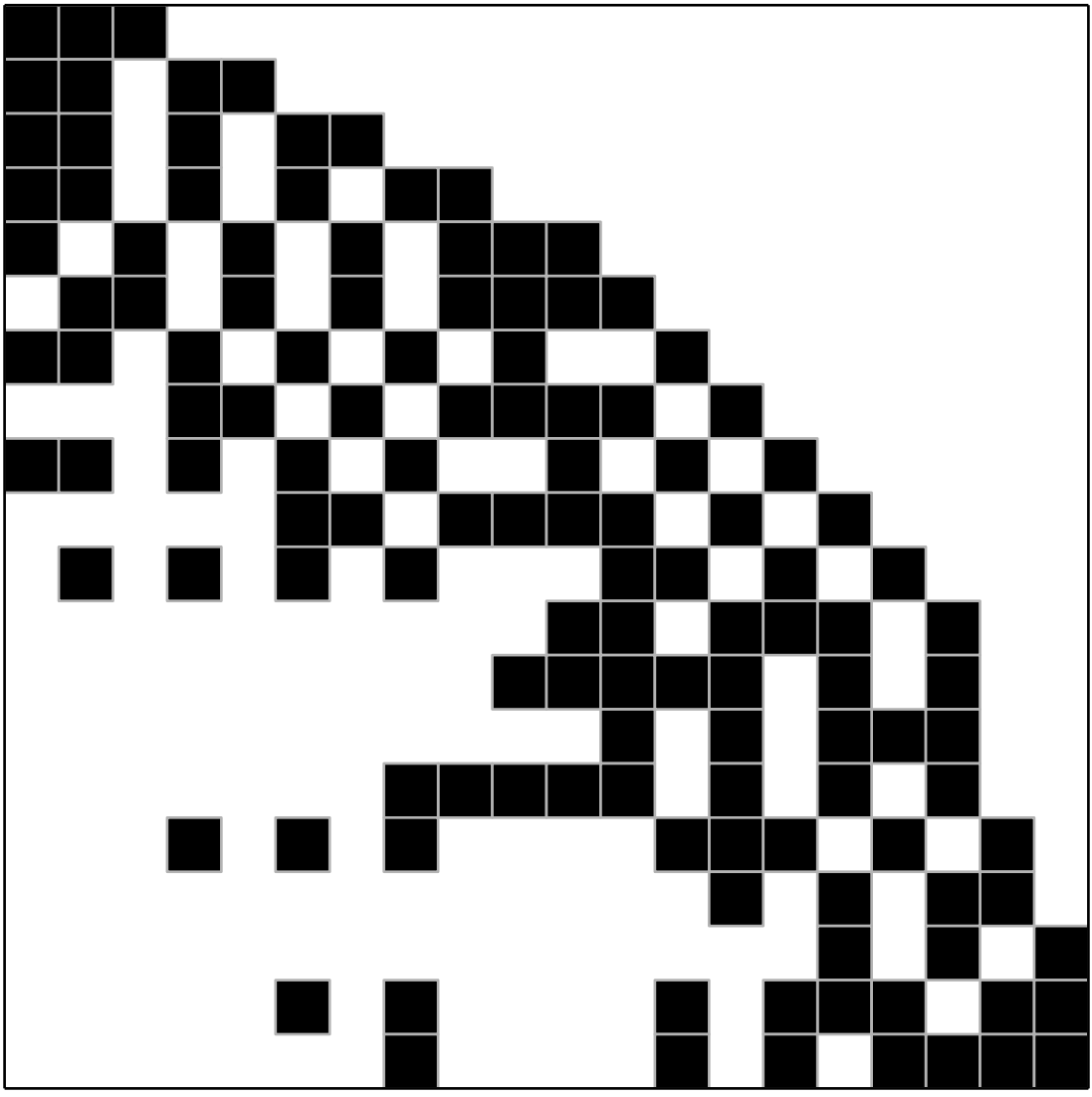
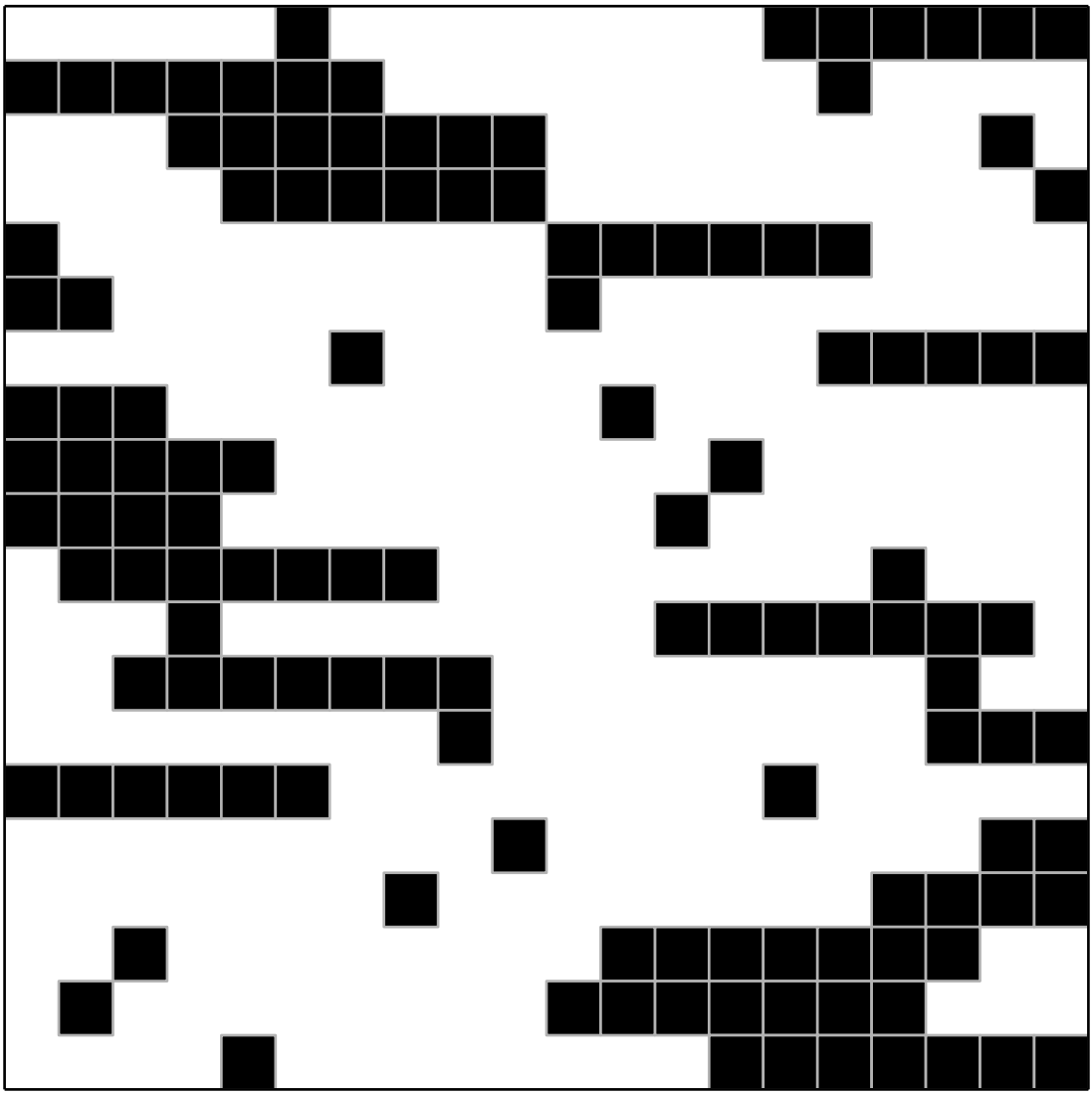
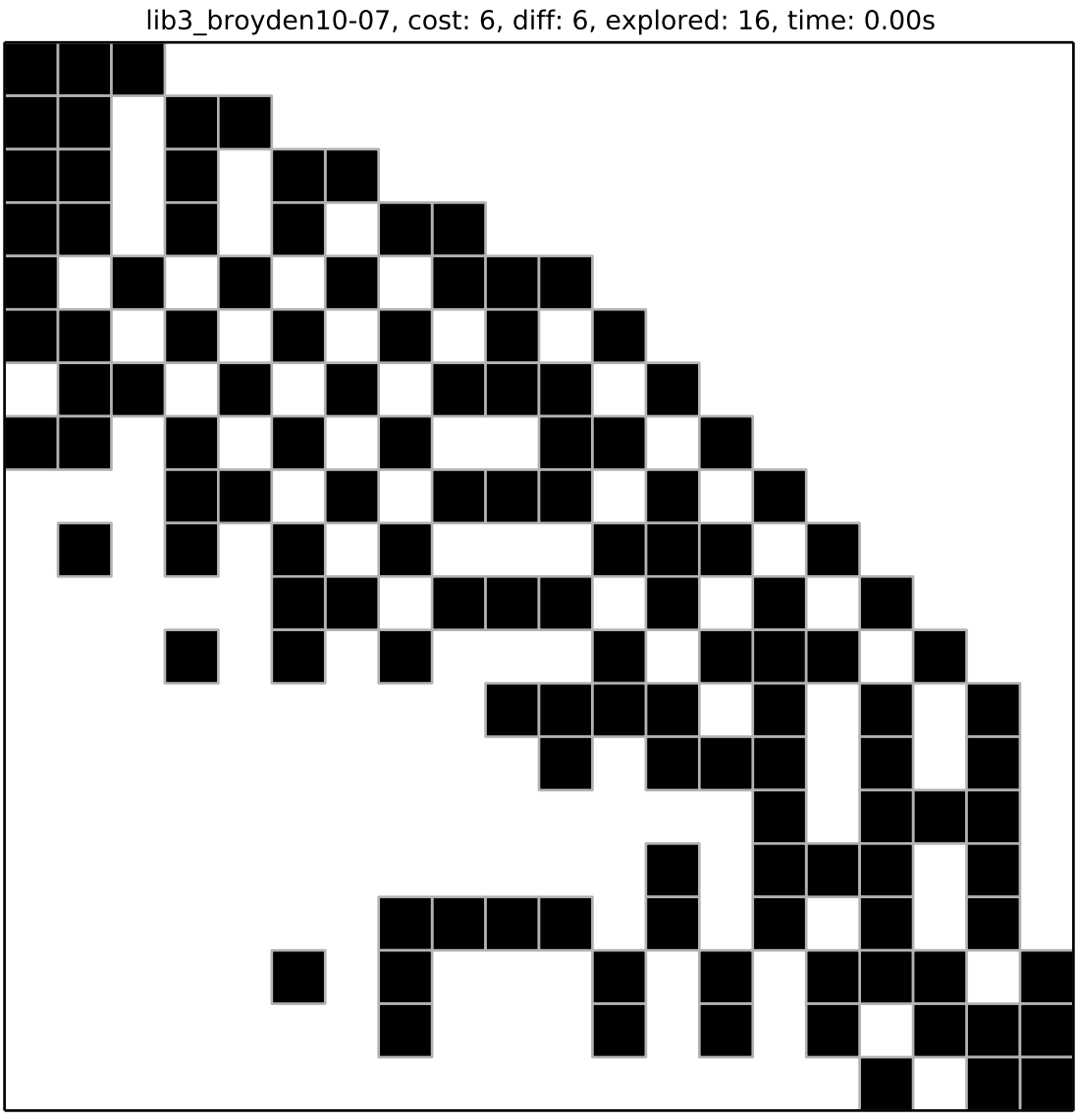

lib3_broyden10-06 20x20 (128) con: 10, var: 10

lib3_broyden10-06, cost: 6, diff: 6, explored: 16, time: 0.00s




lib3_broyden10-07 20x20 (128) con: 10, var: 10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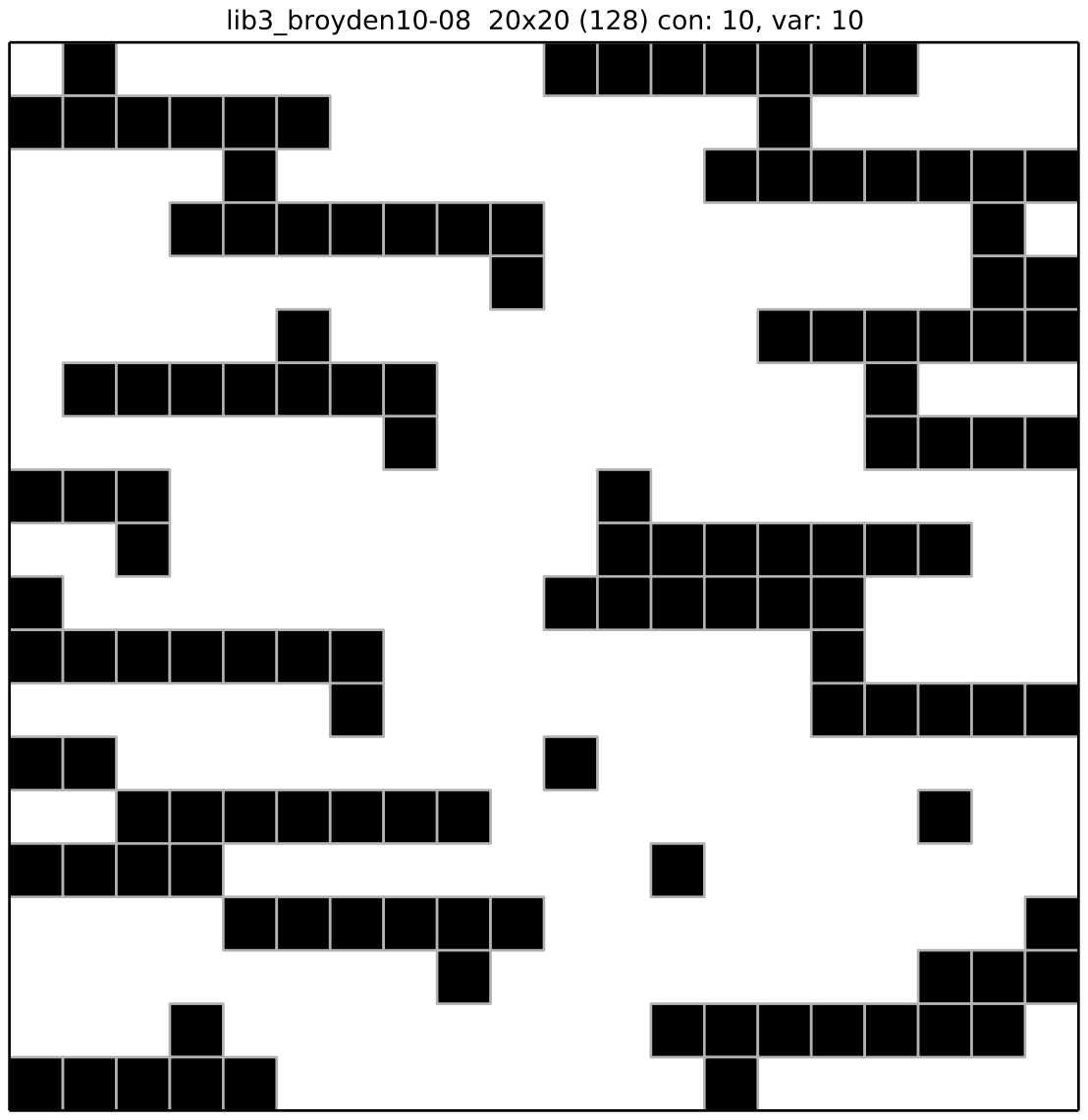
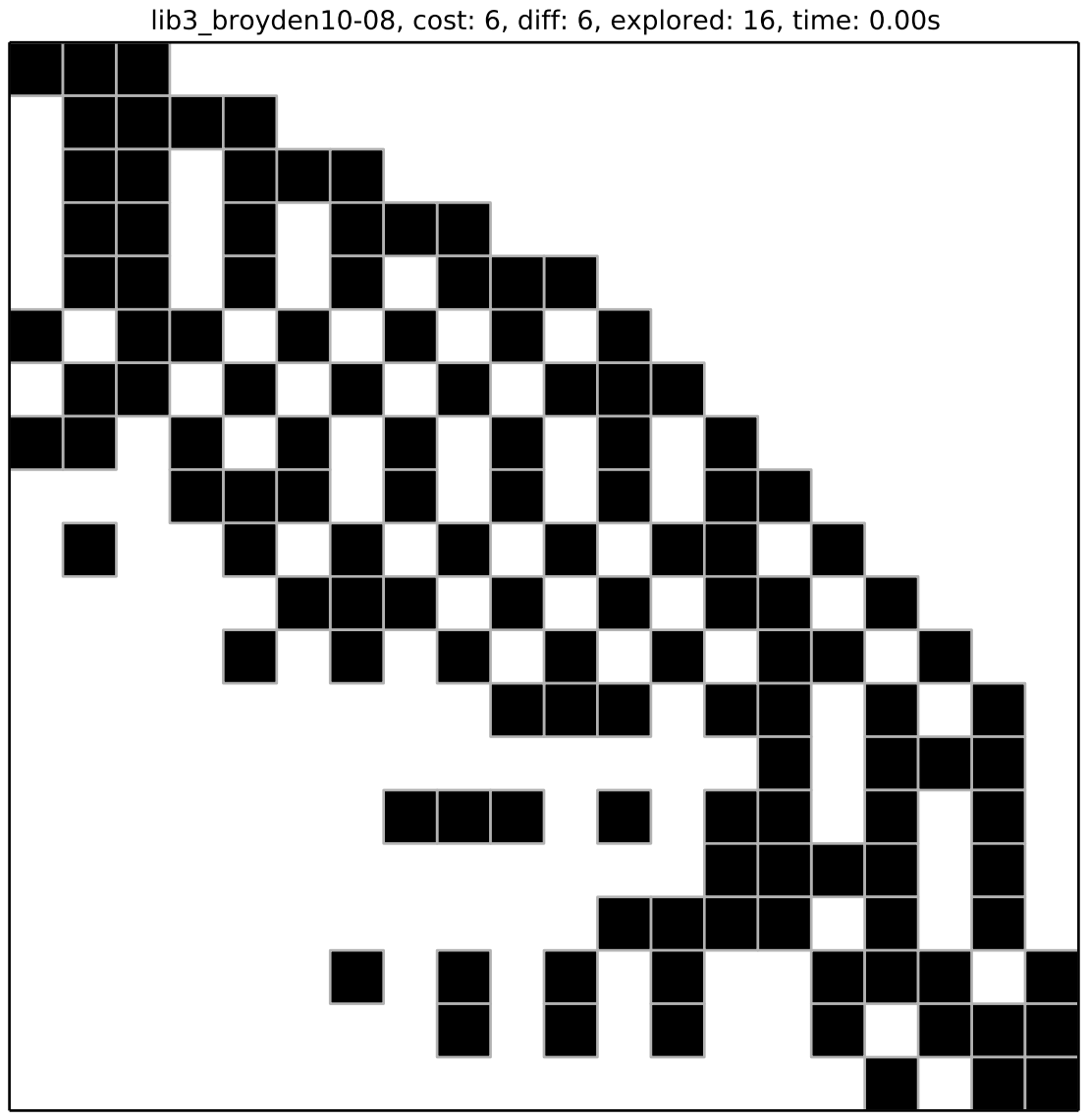
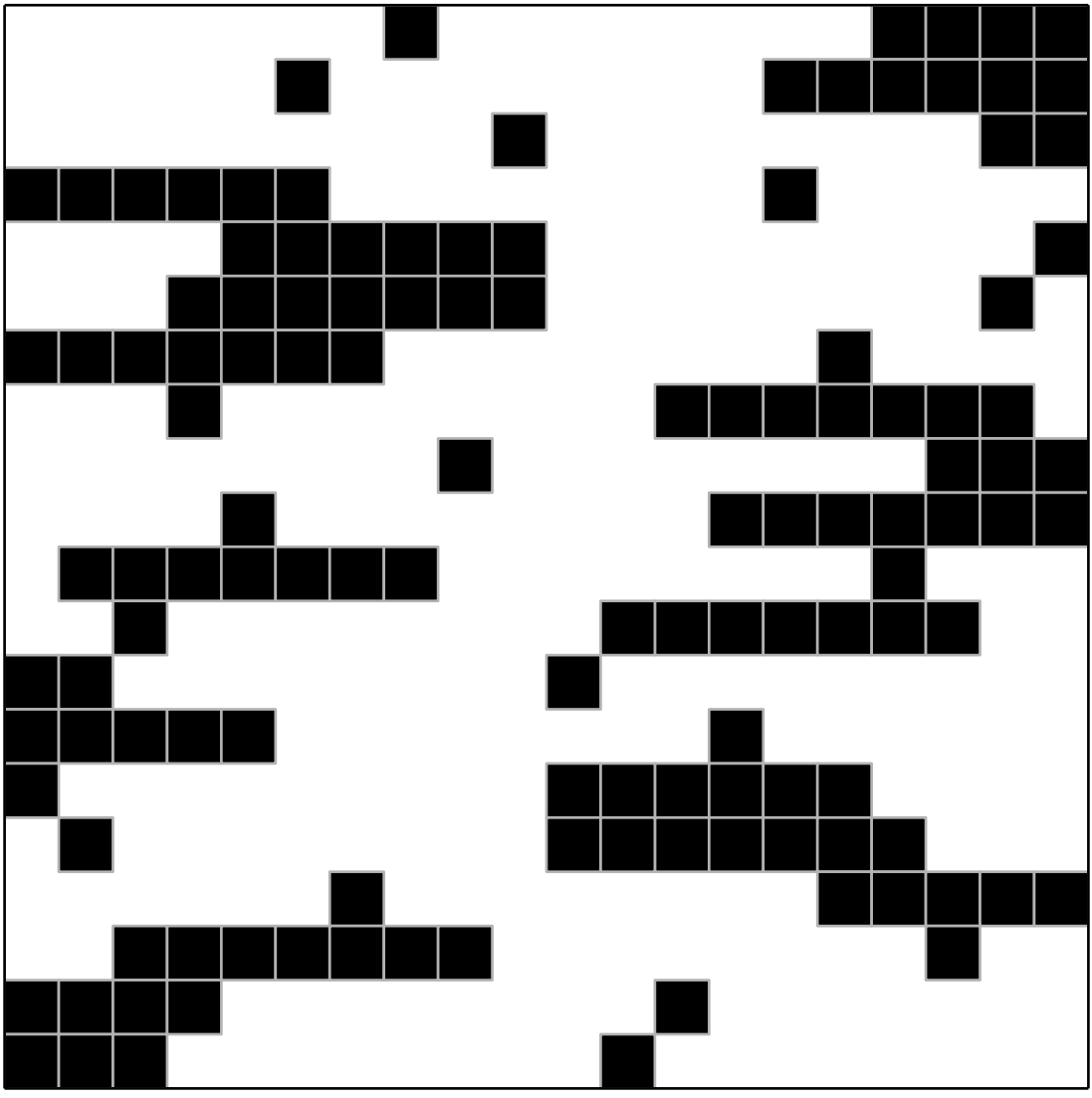
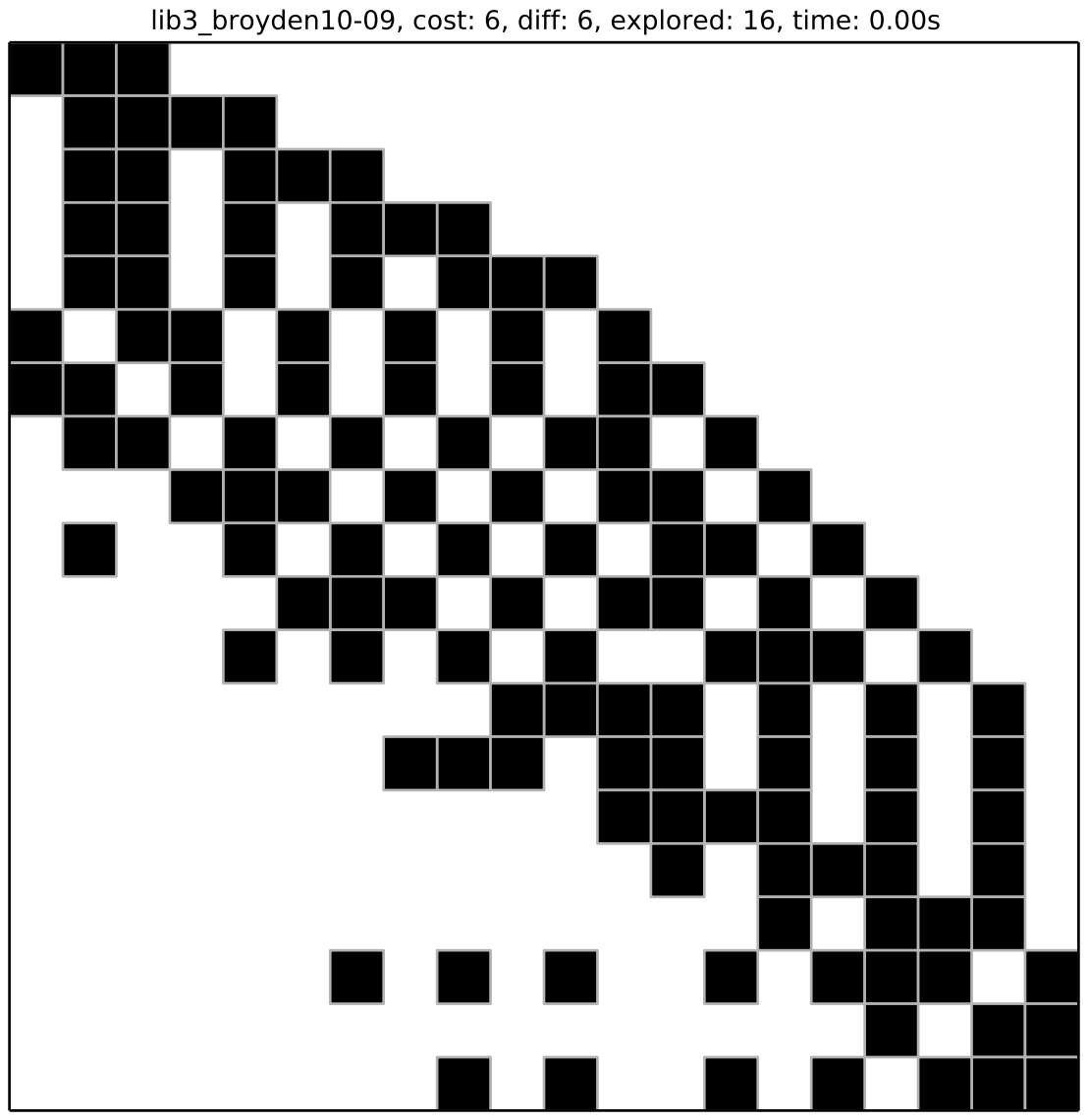

lib3_broyden10-08 20x20 (128) con: 10, var: 10


lib3_broyden10-08, cost: 6, diff: 6, explored: 16, time: 0.00s

lib3_broyden10-09 20x20 (128) con: 10, var: 10

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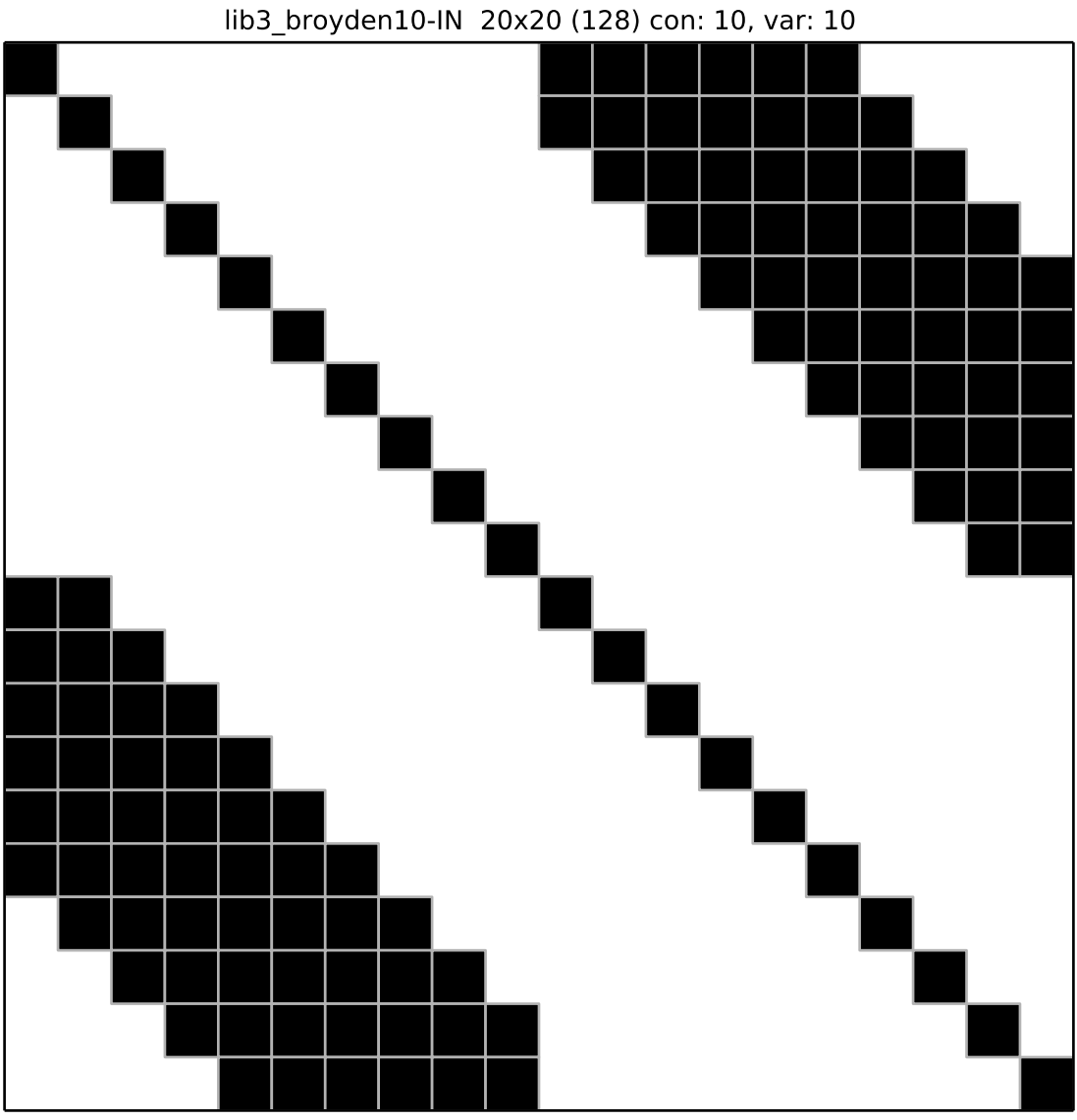
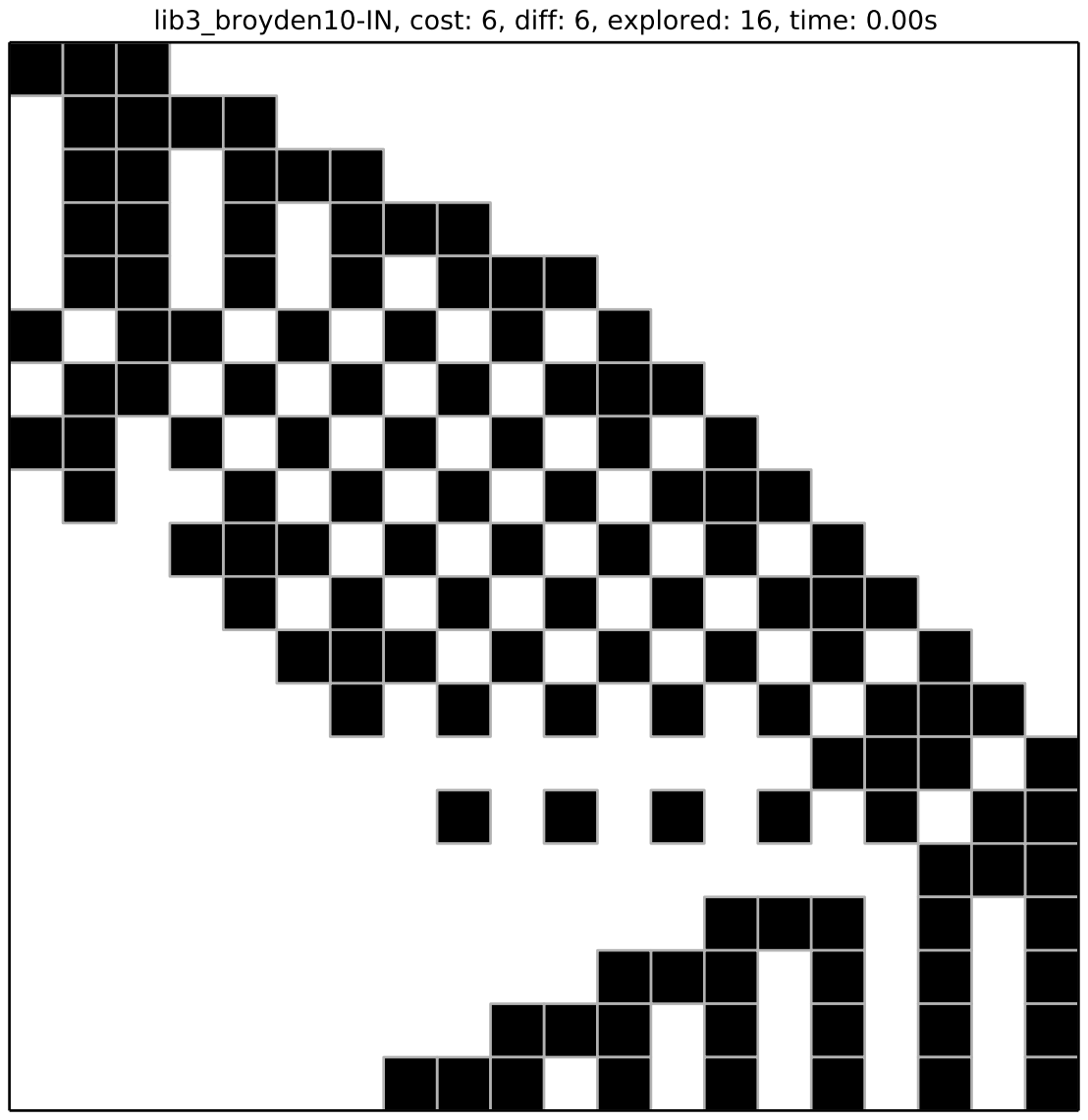

lib3_broyden10-IN 20x20 (128) con: 10, var: 10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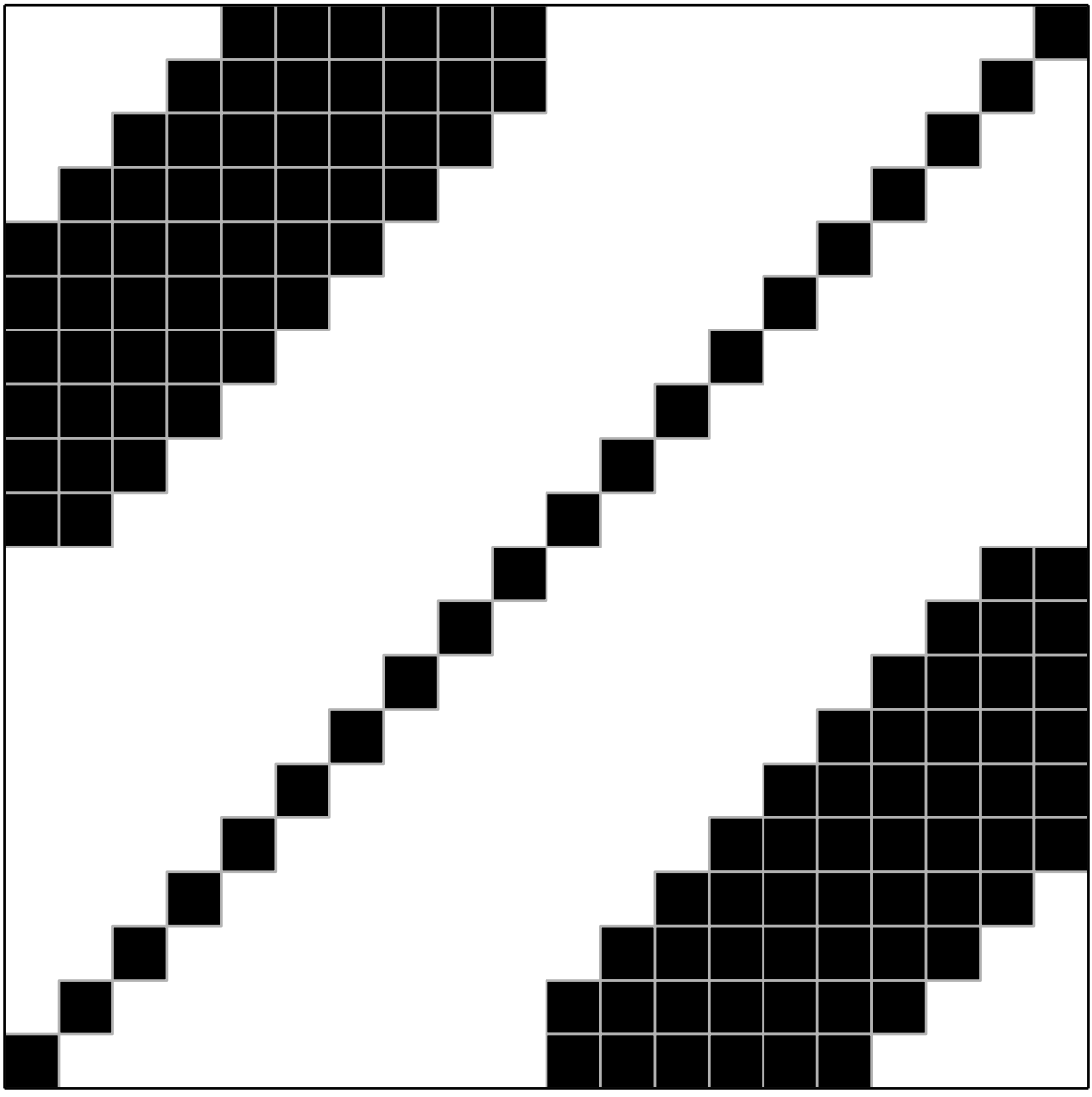
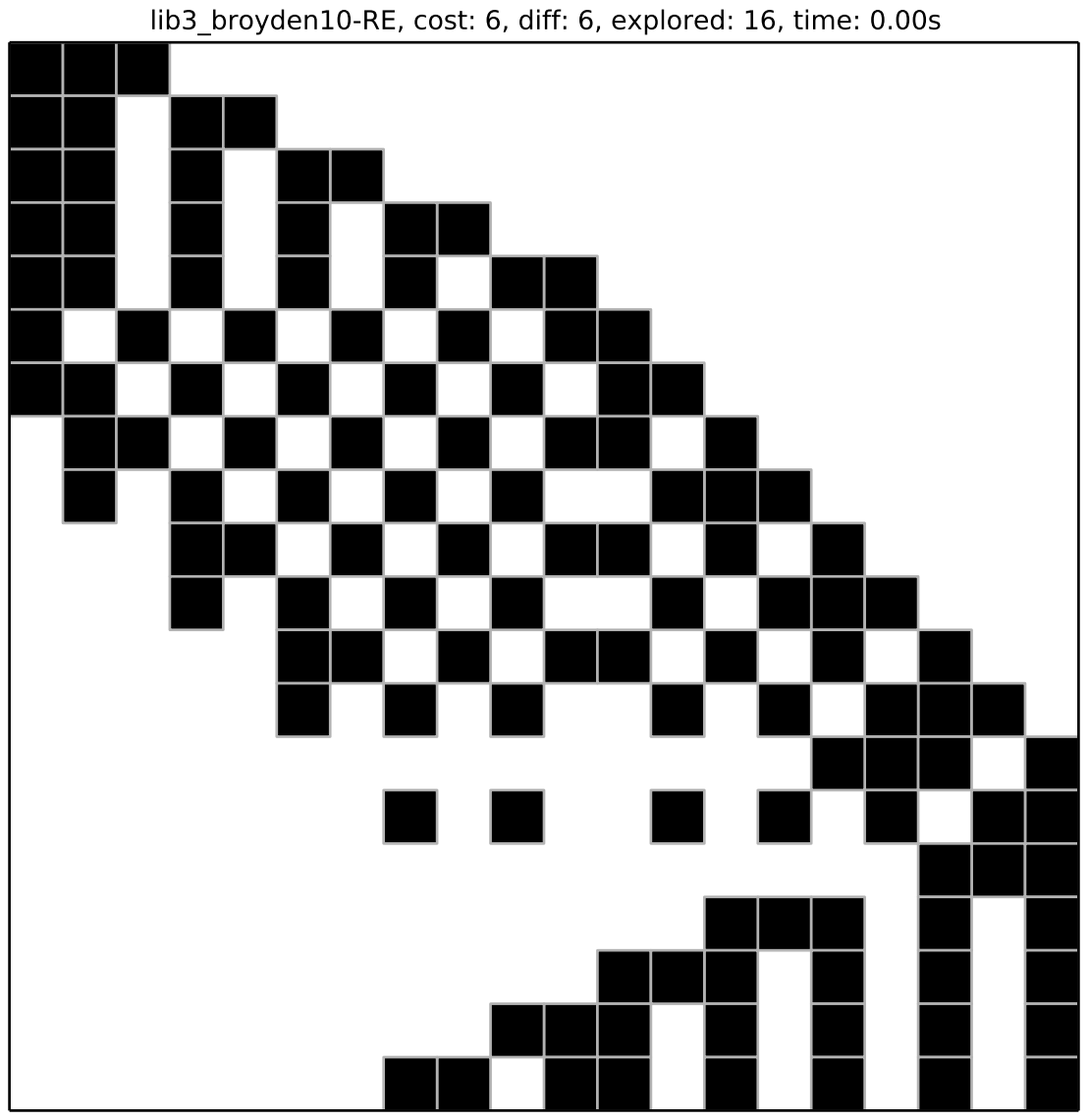
lib3_broyden10-RE 20x20 (128) con: 10, var: 10

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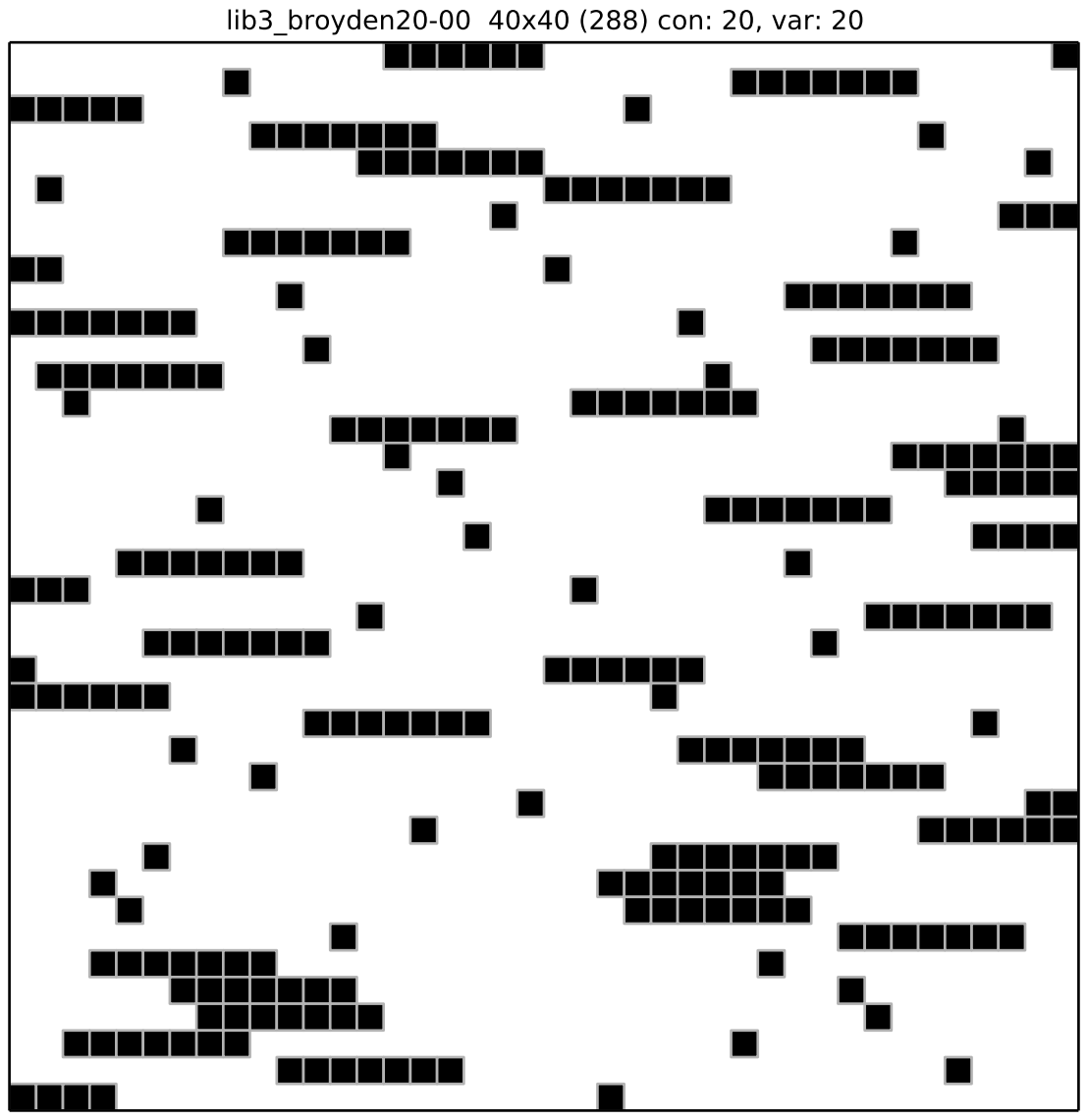
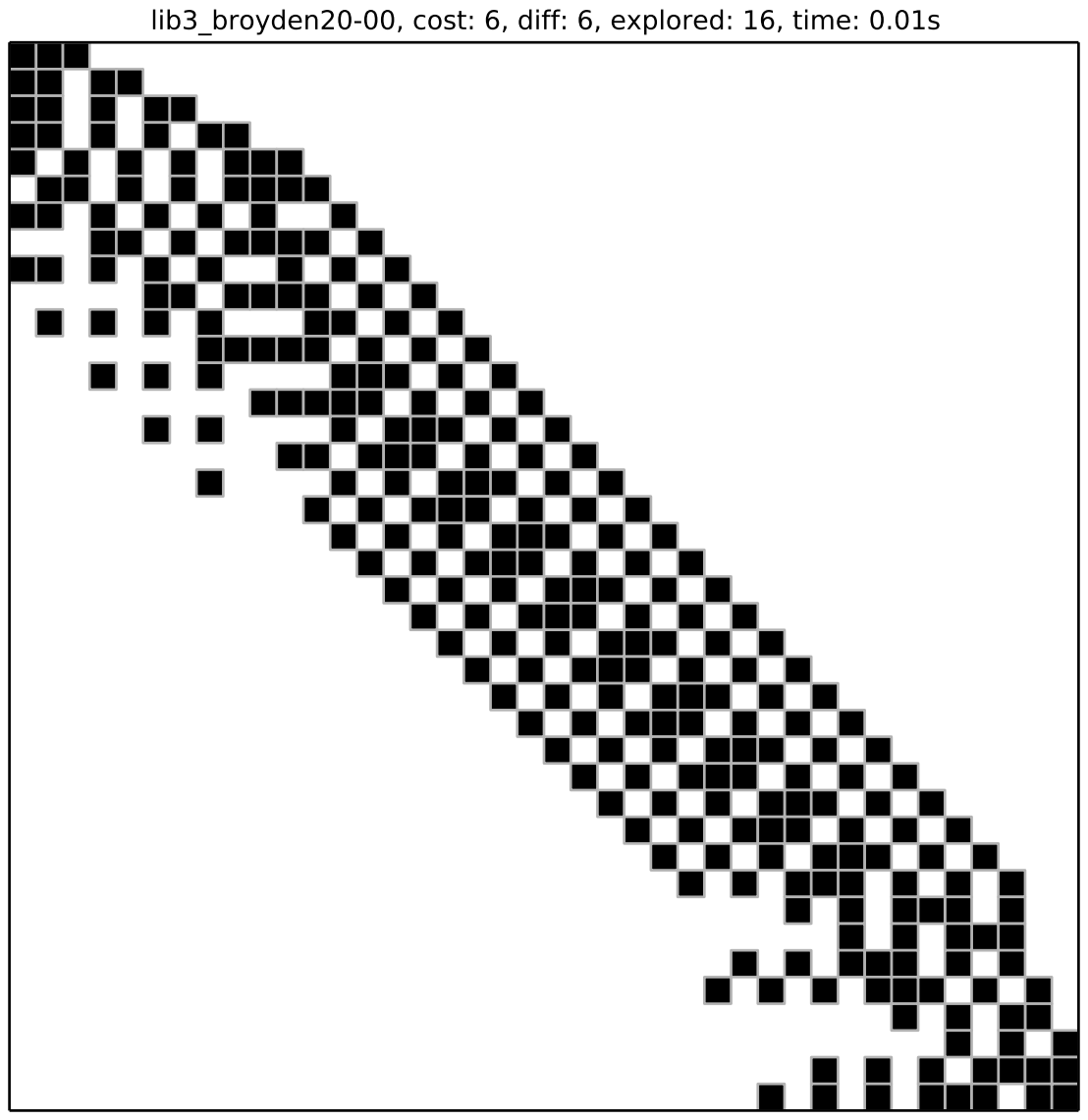

lib3_broyden20-00 40x40 (288) con: 20, var: 20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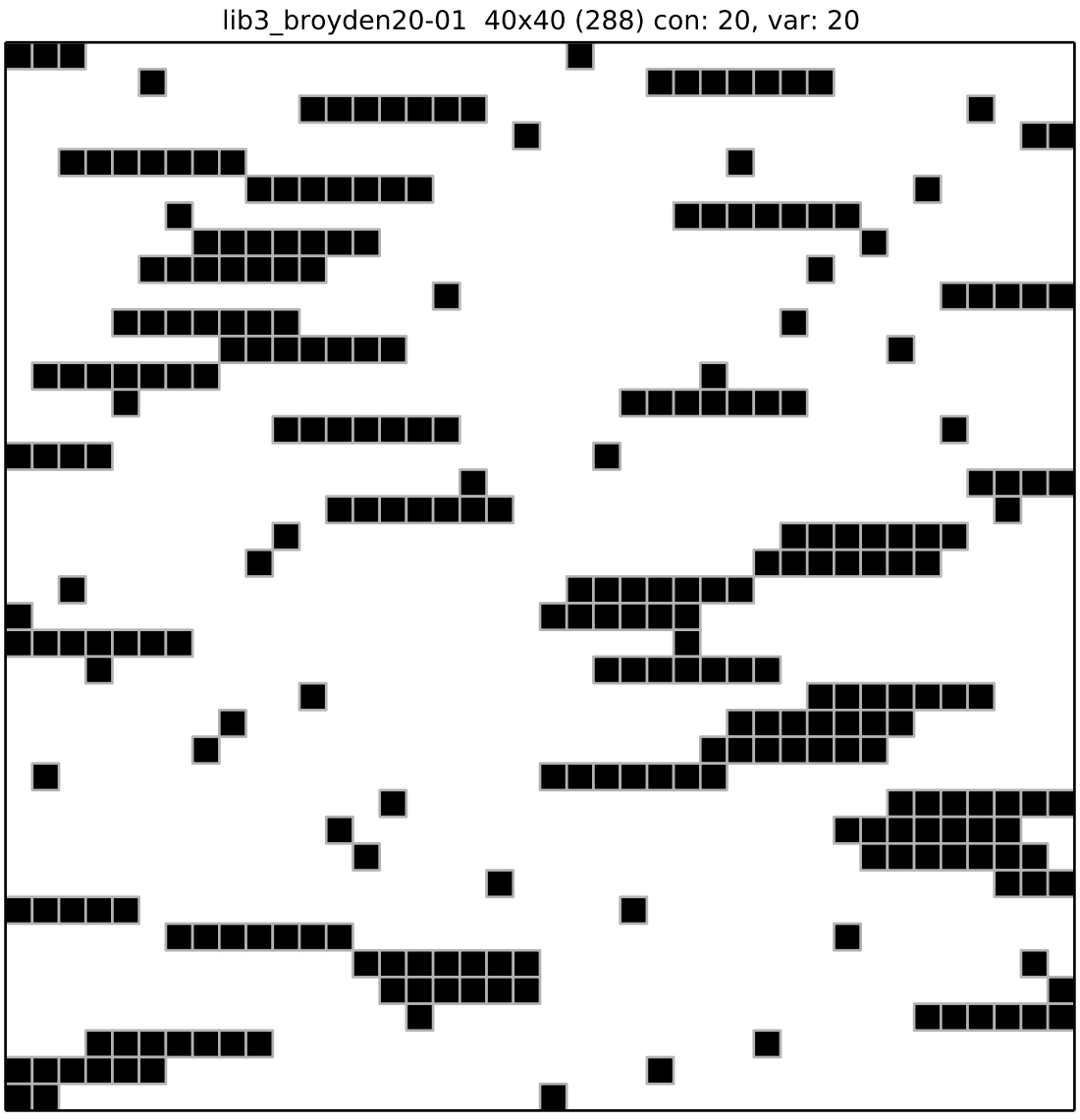
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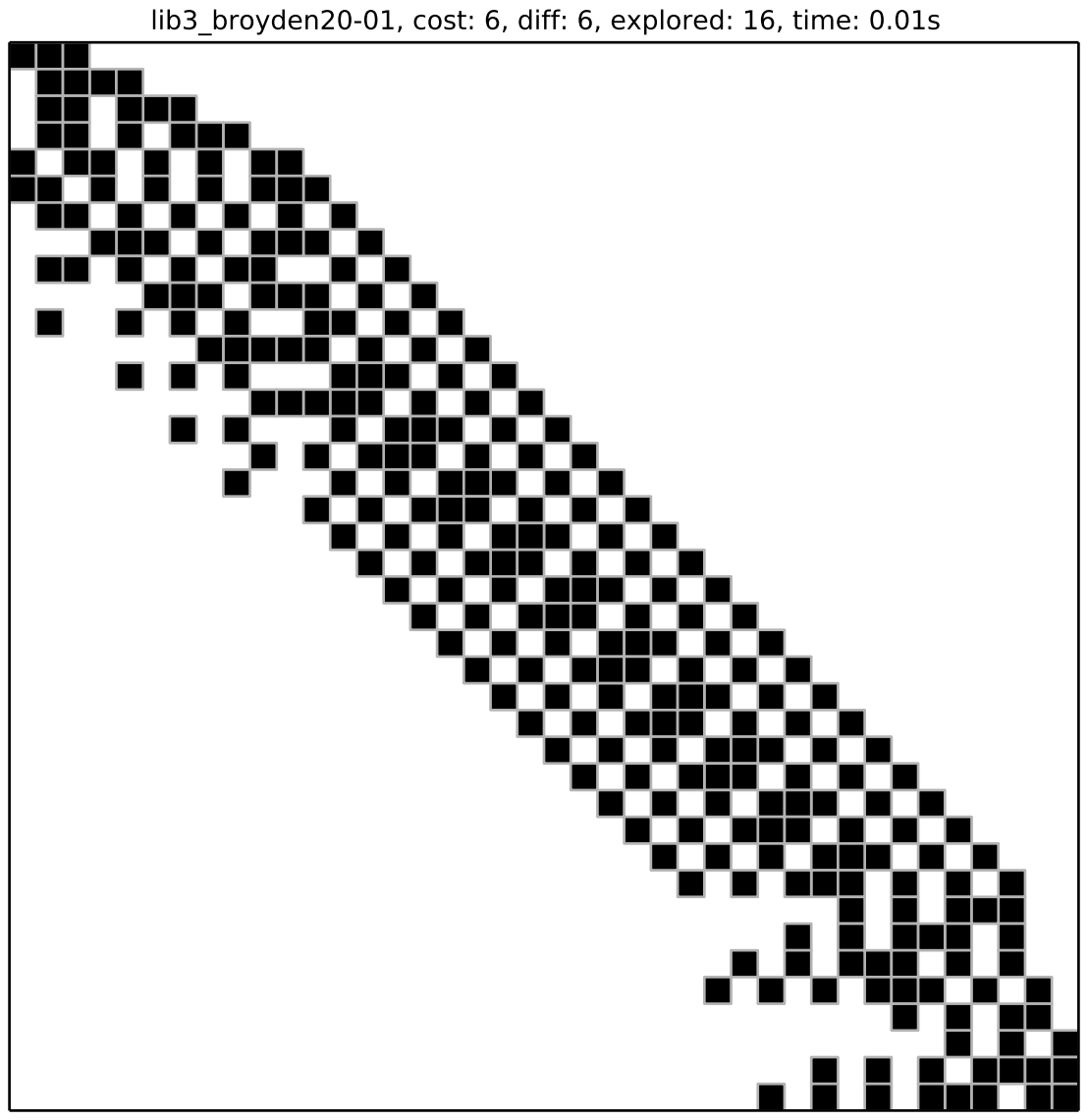
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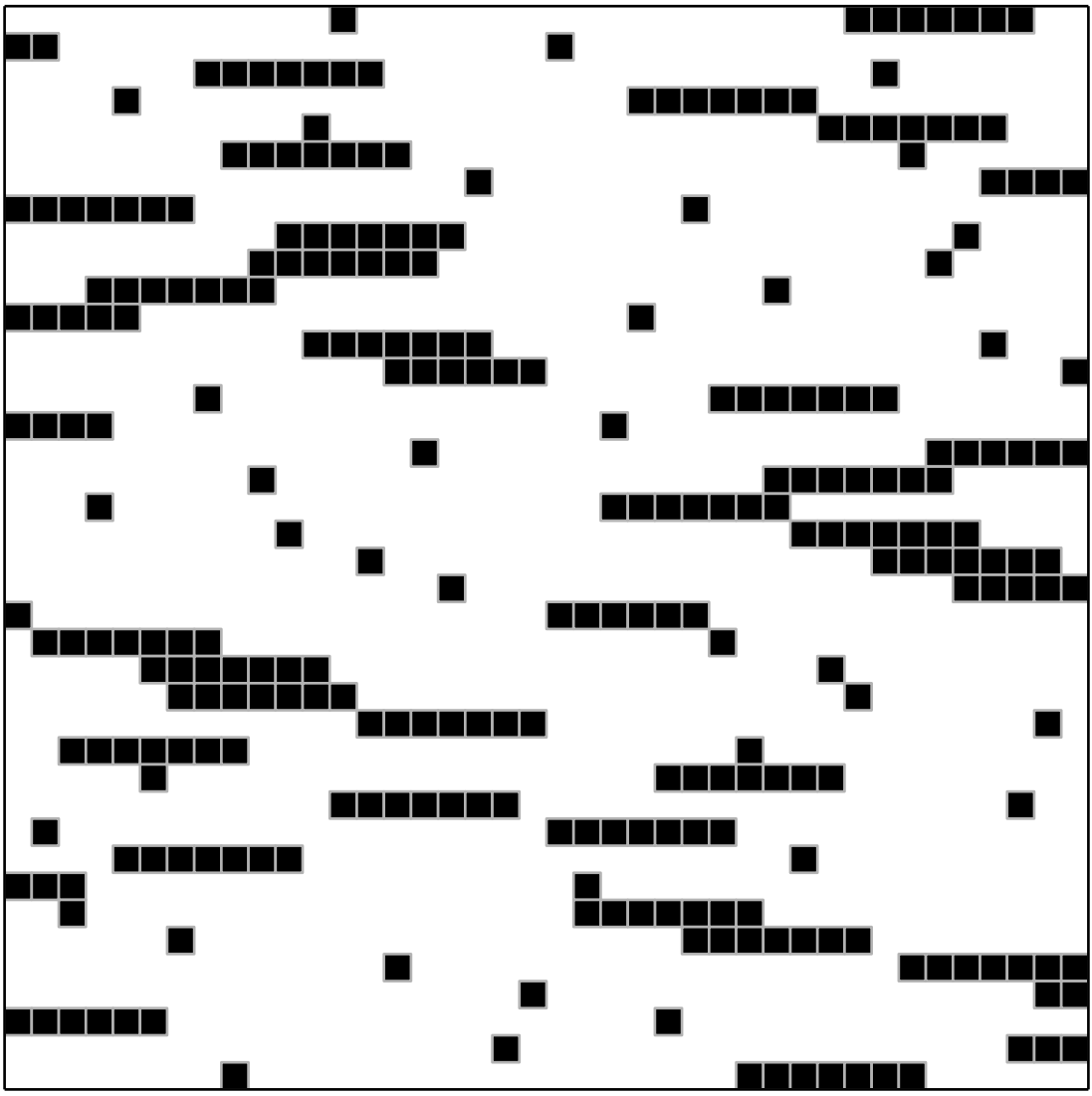
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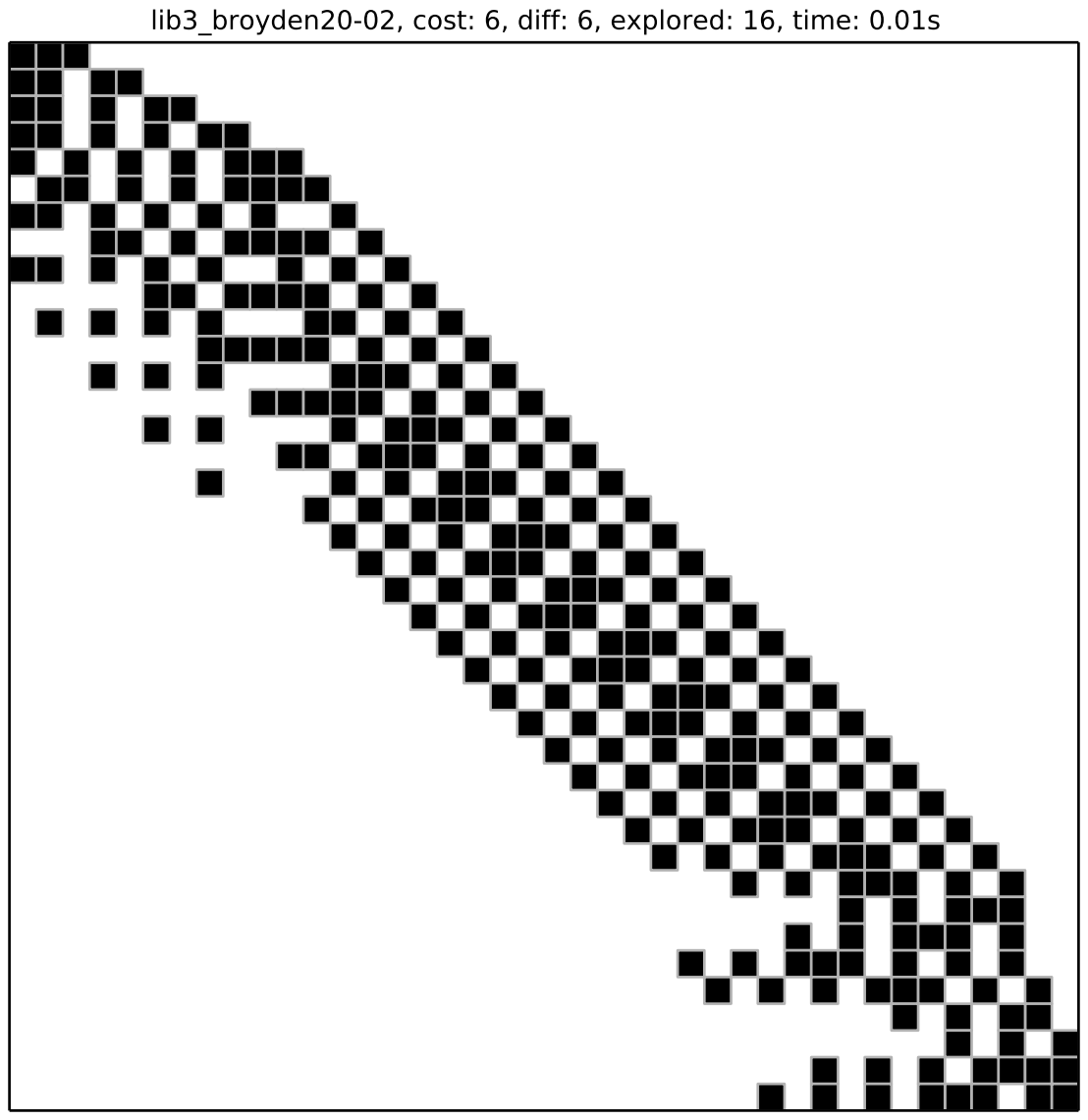
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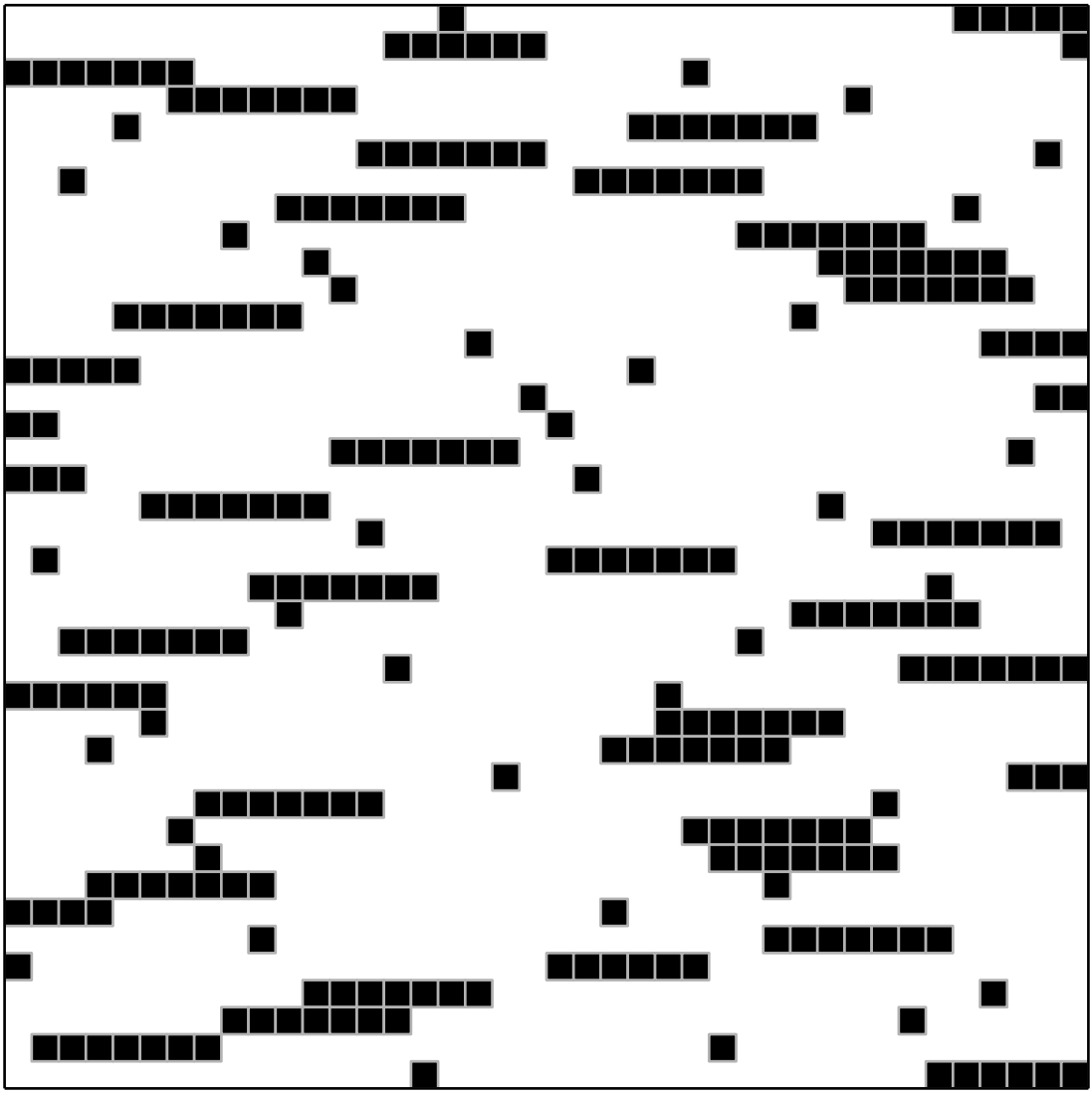

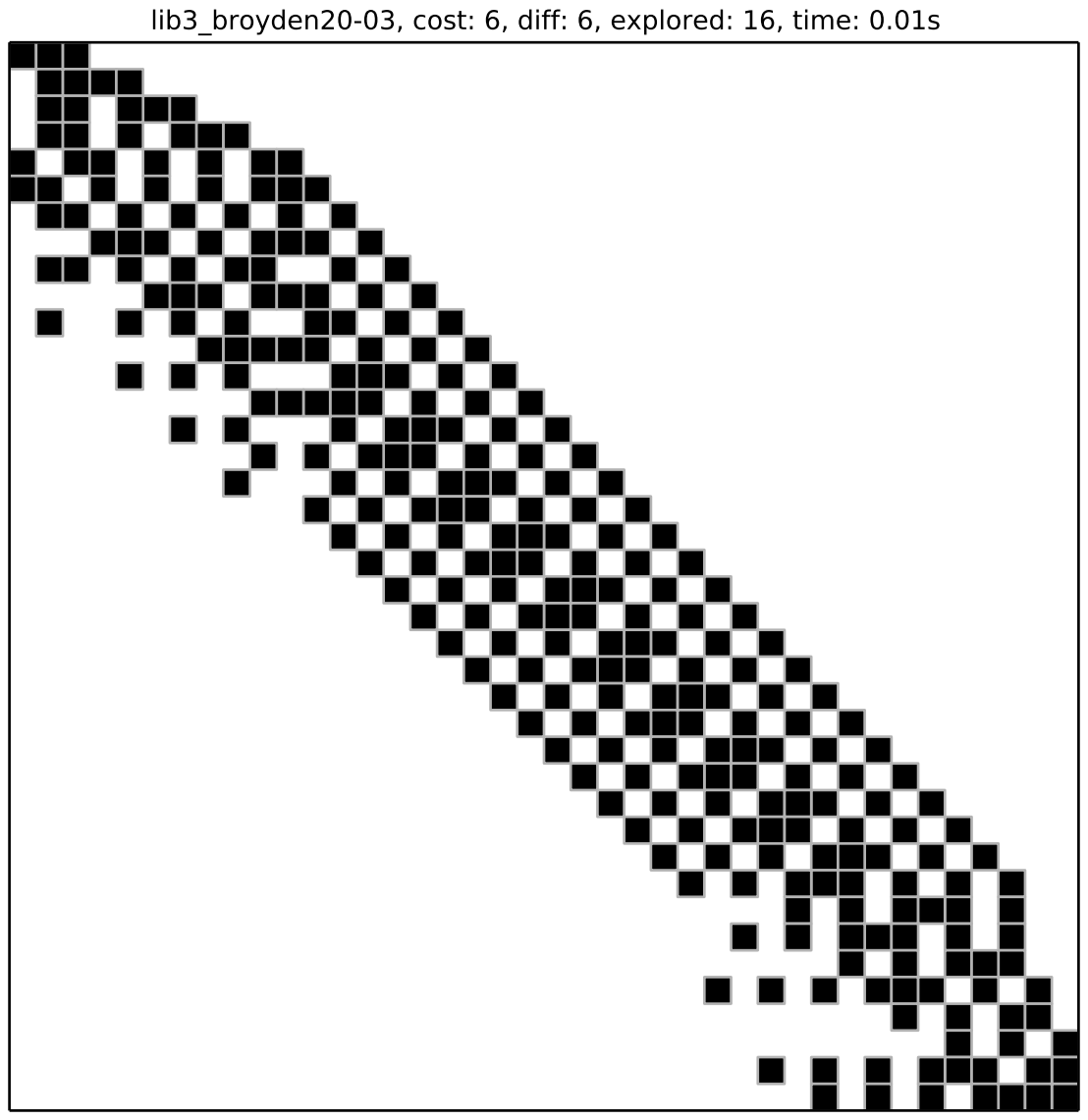
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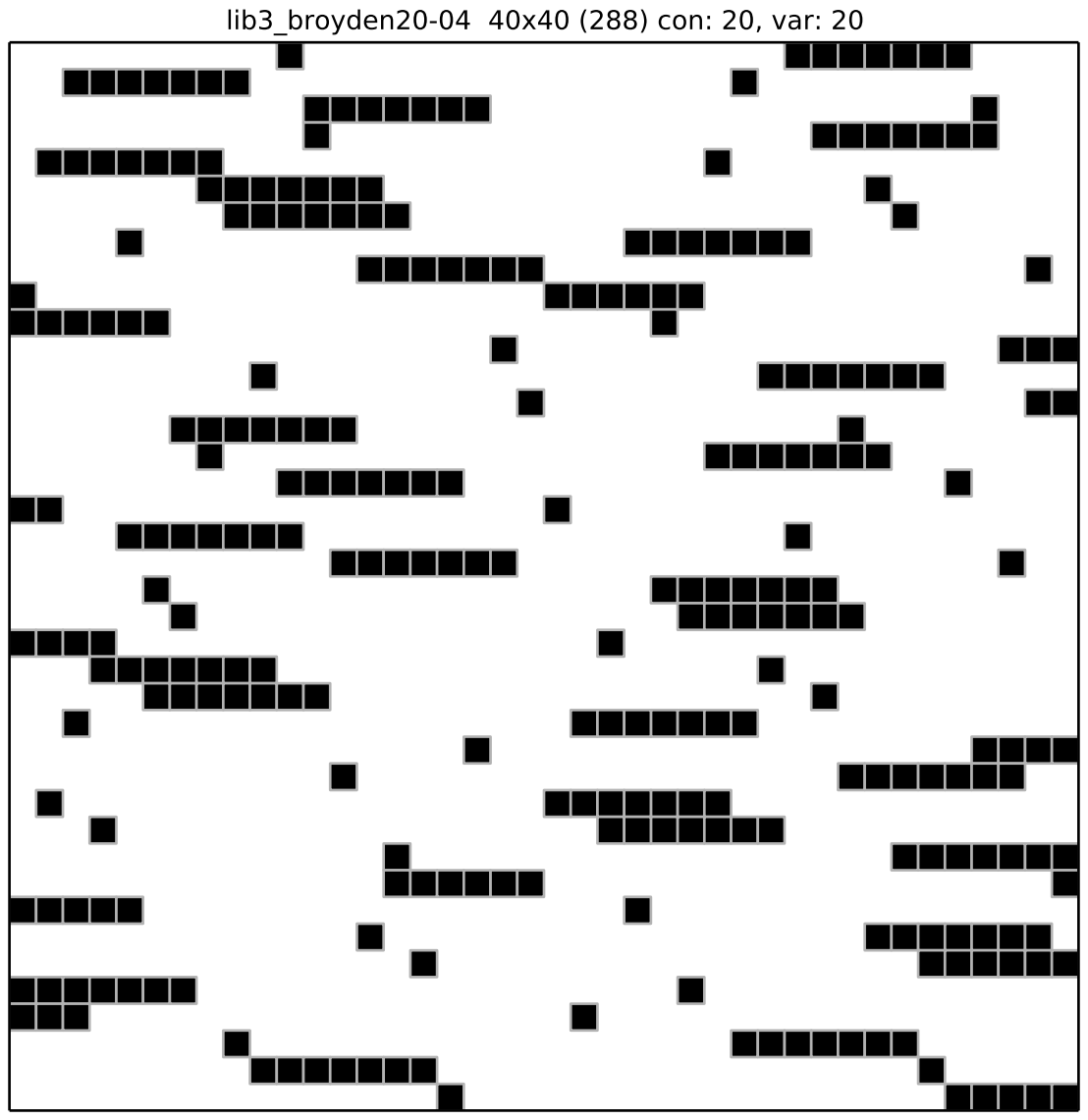
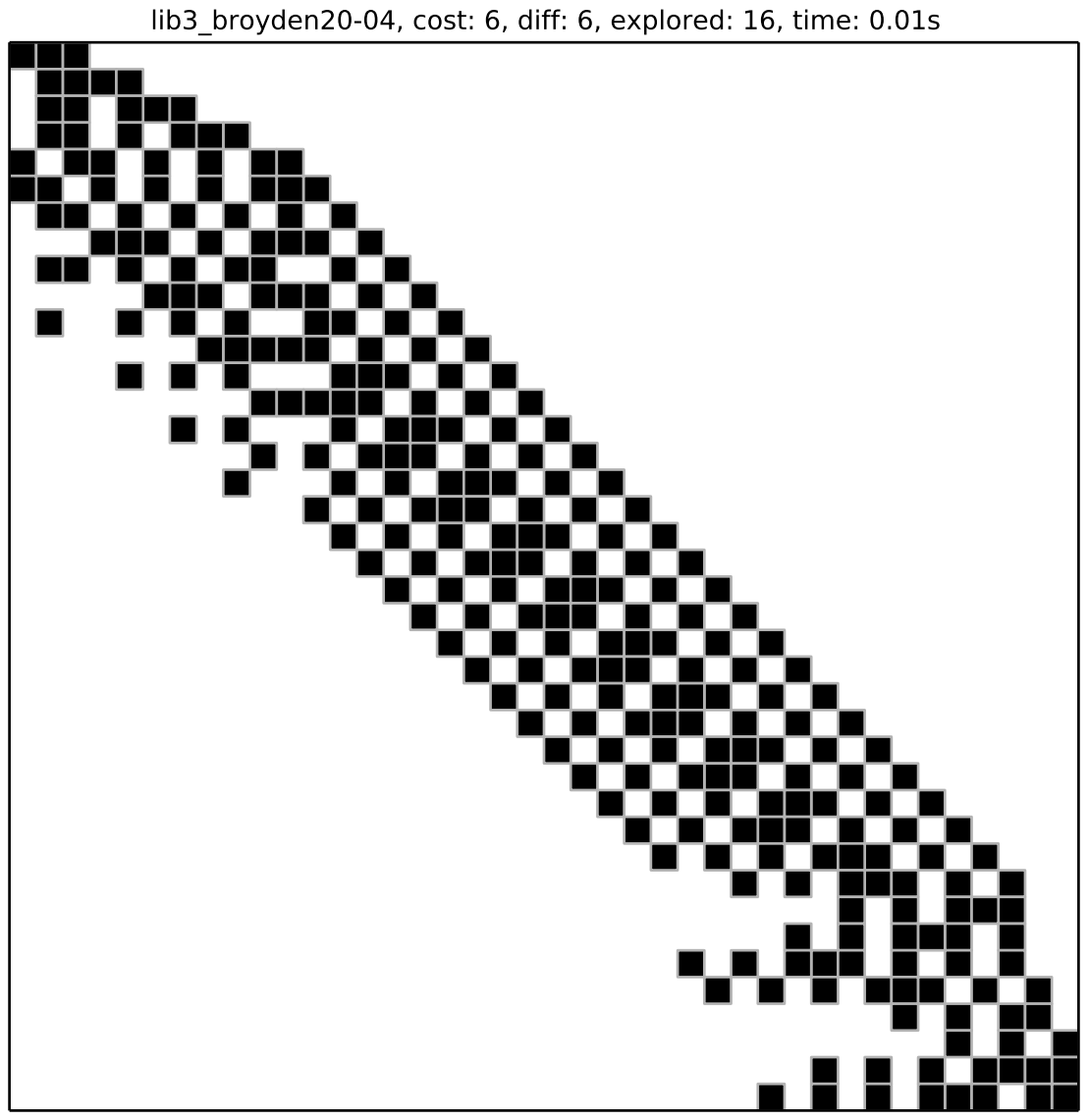

lib3_broyden20-04 40x40 (288) con: 20, var: 20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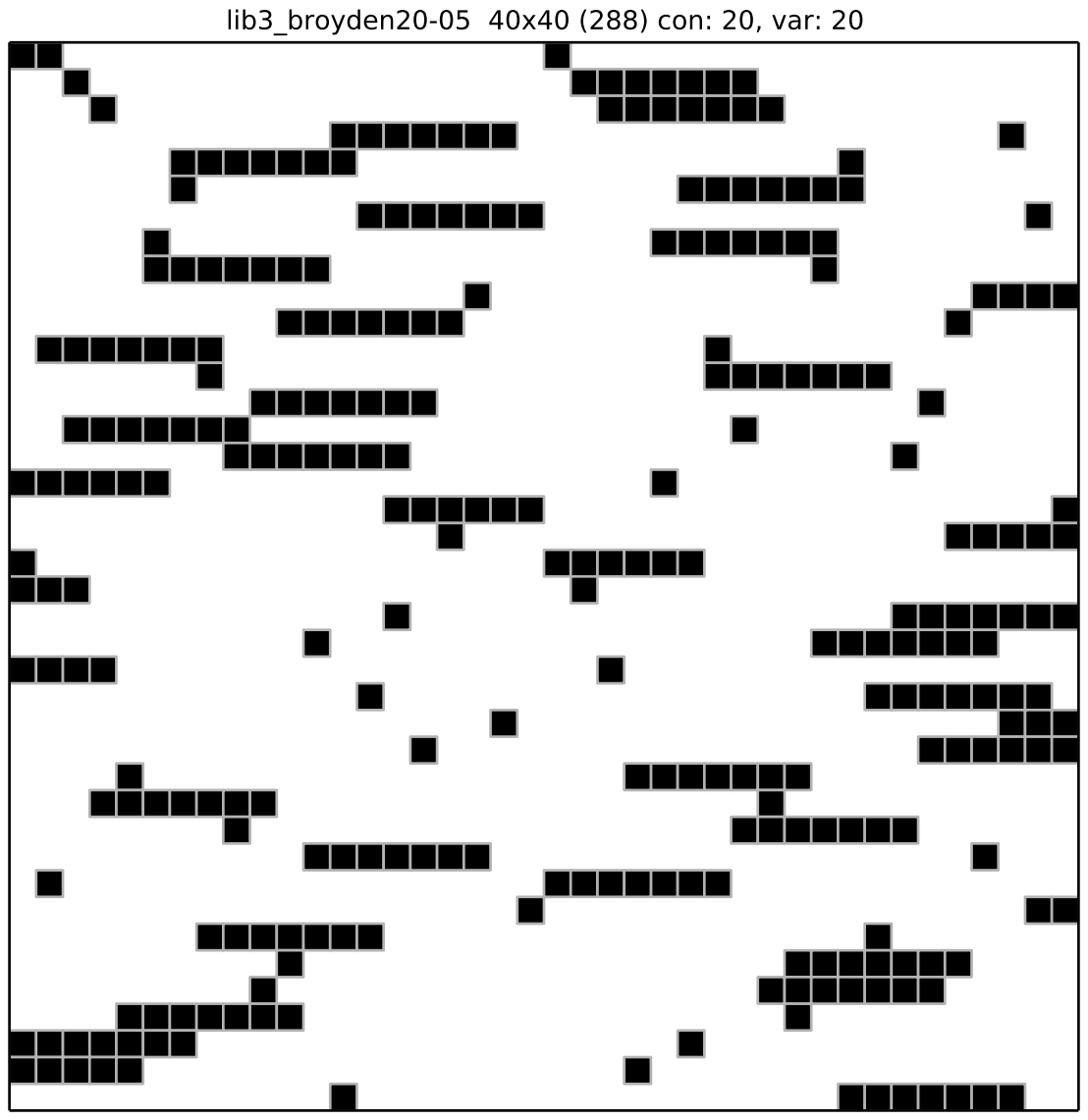
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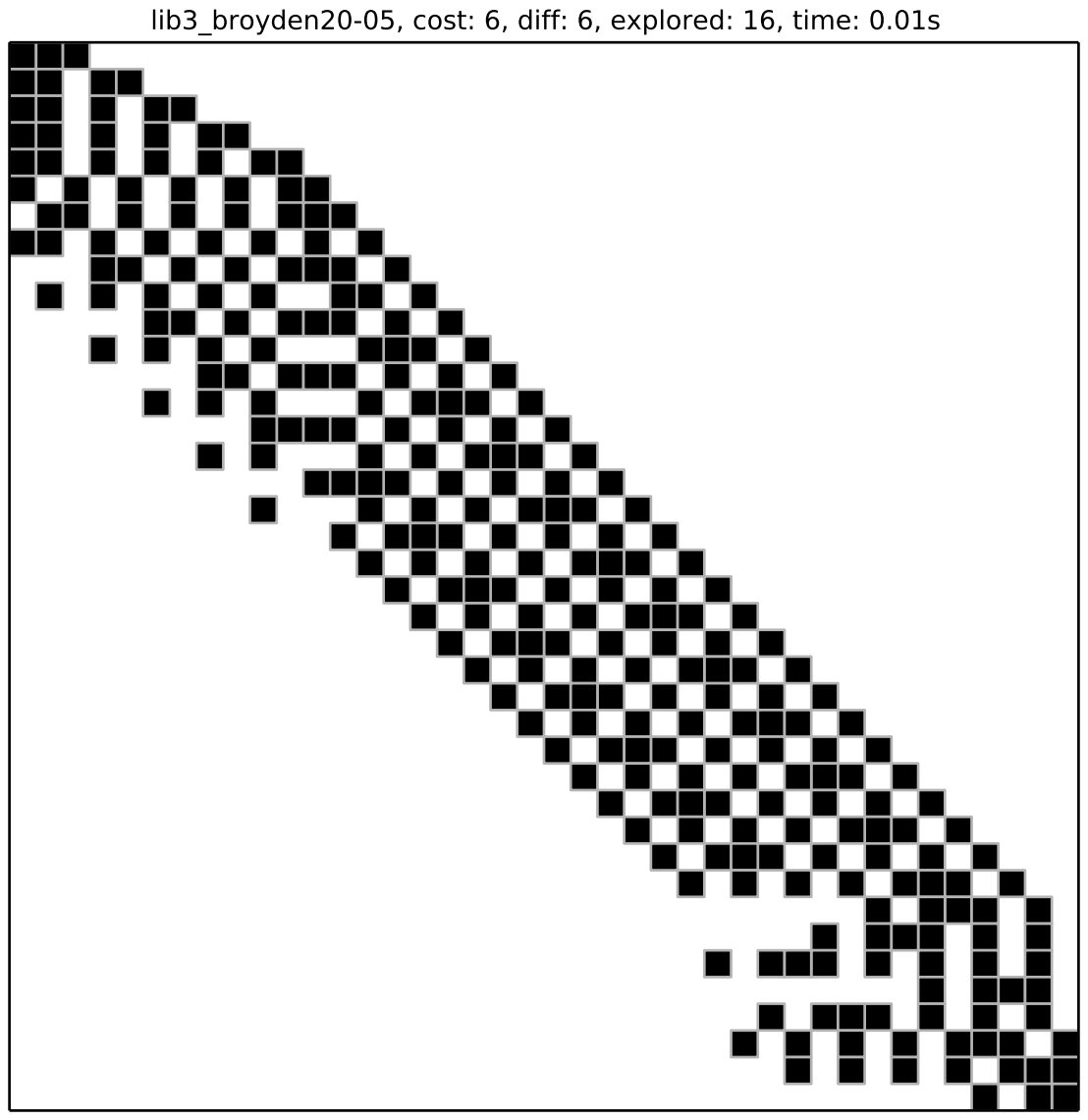
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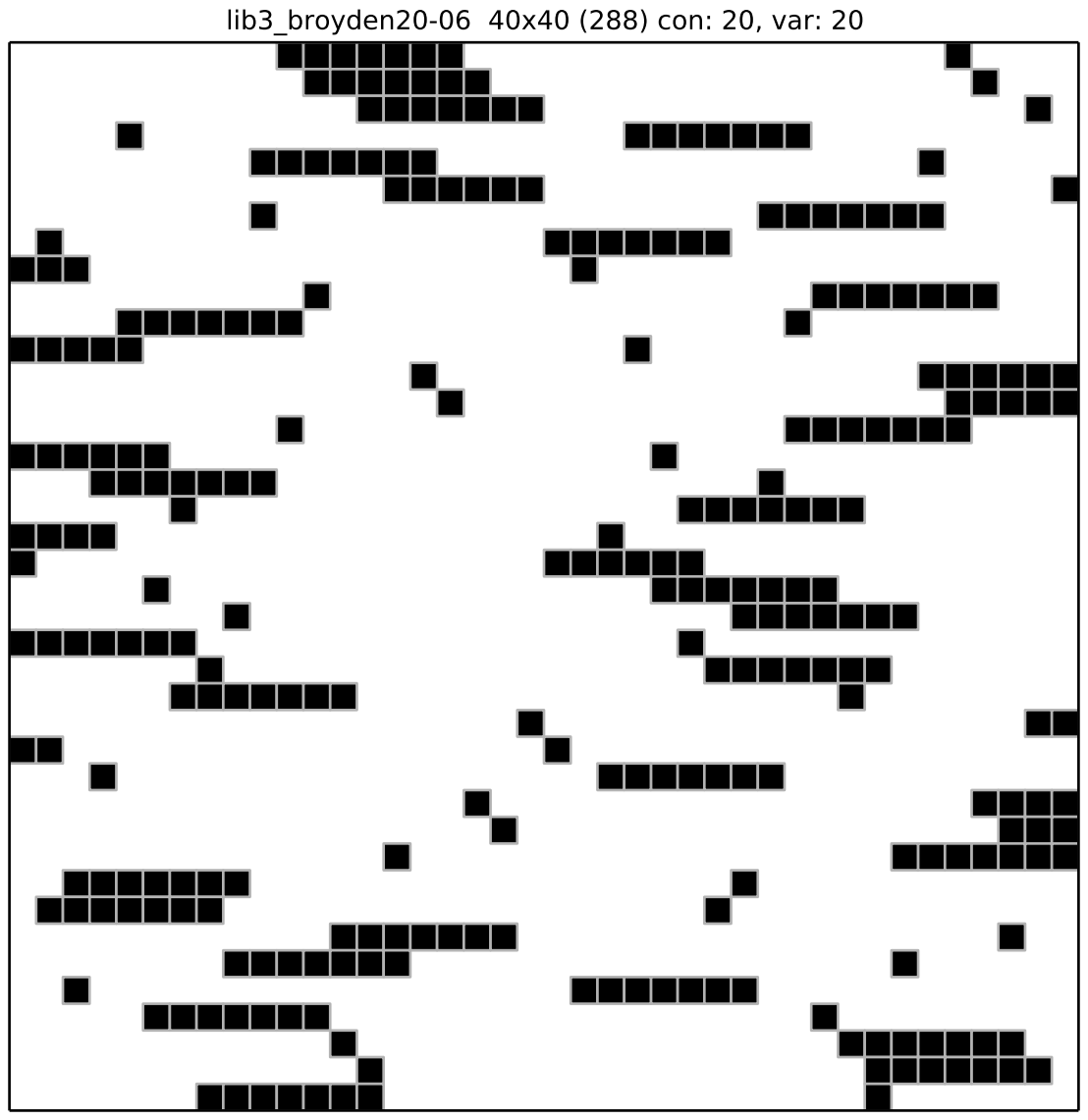
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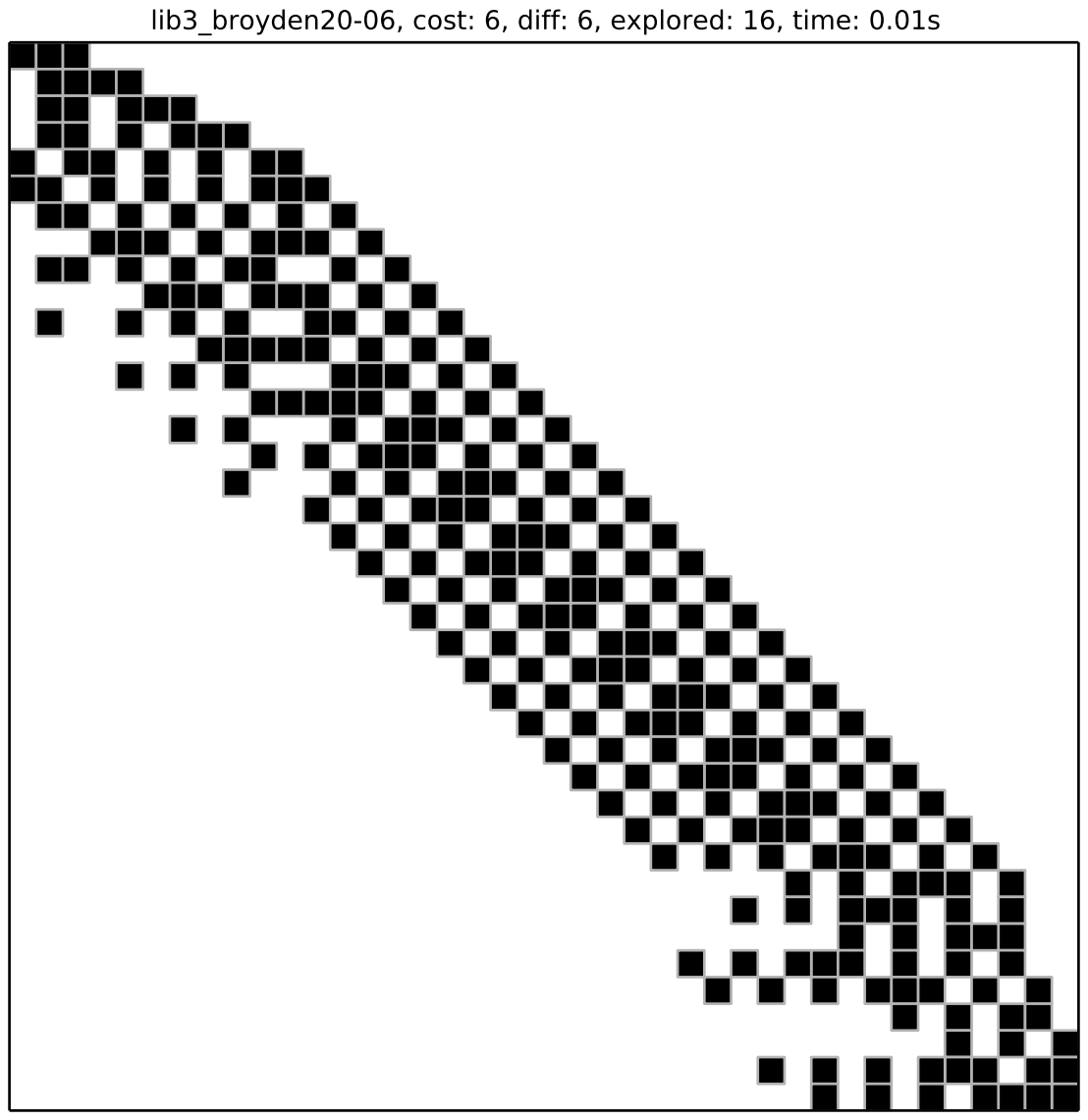
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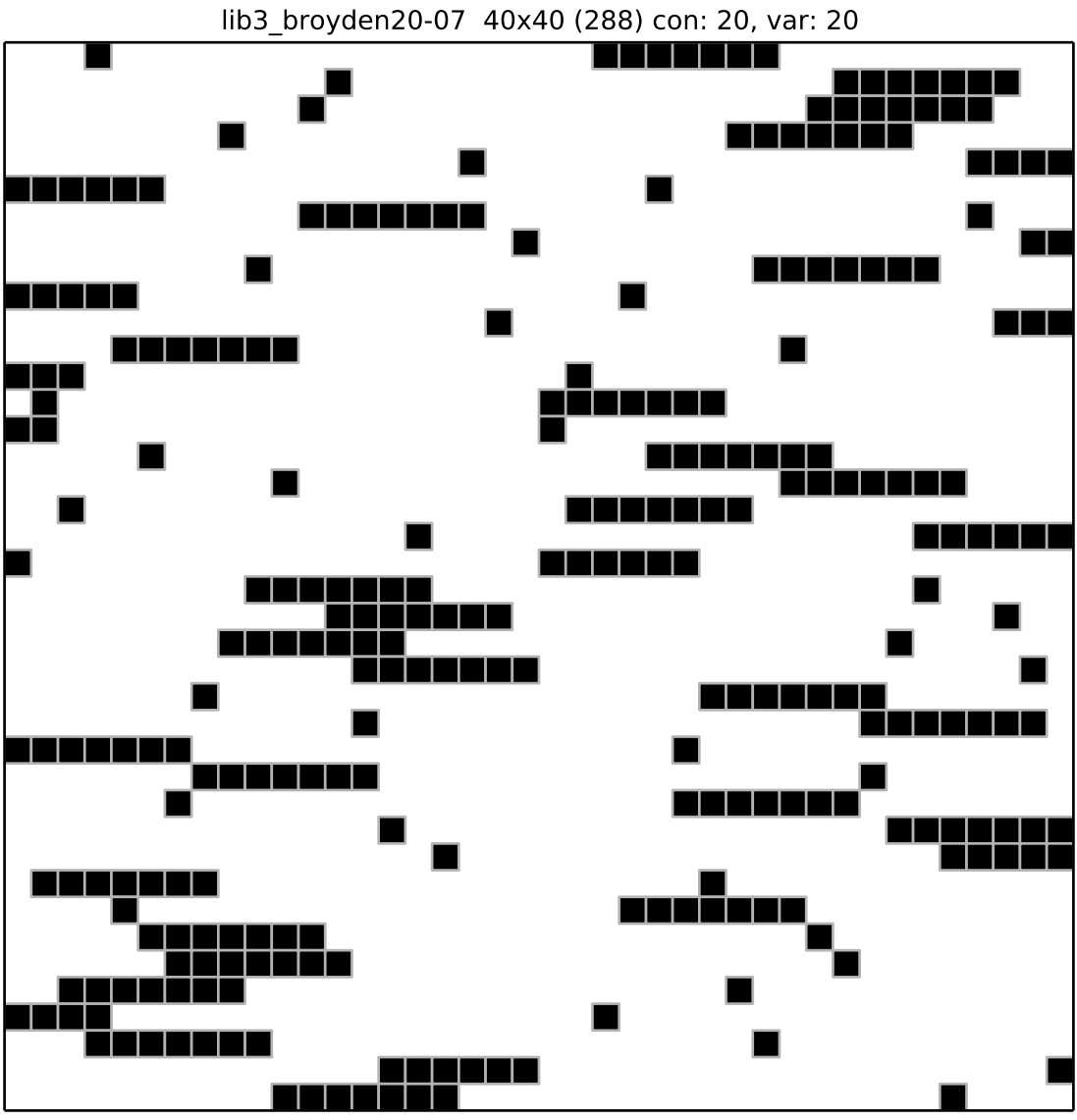
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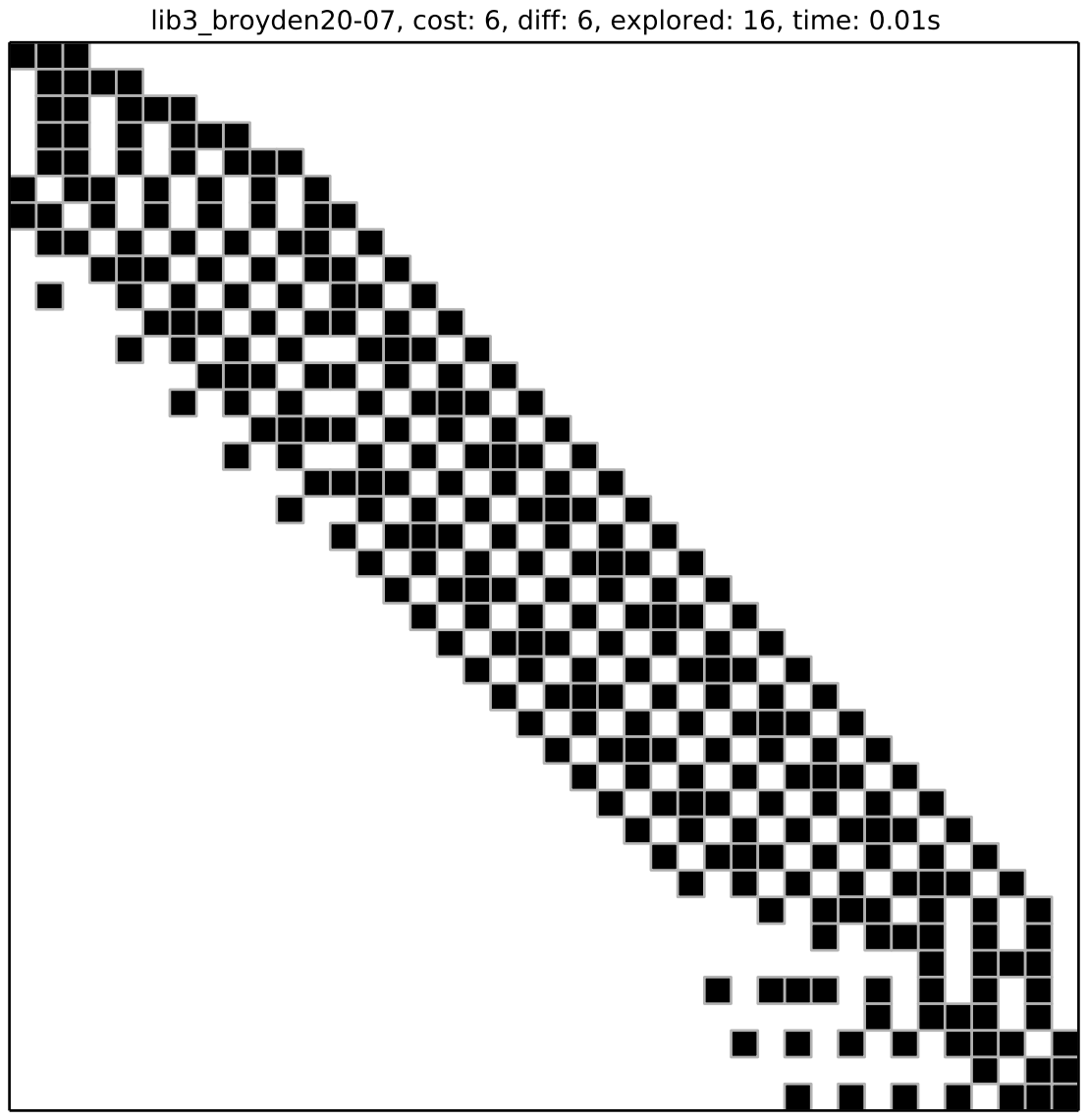
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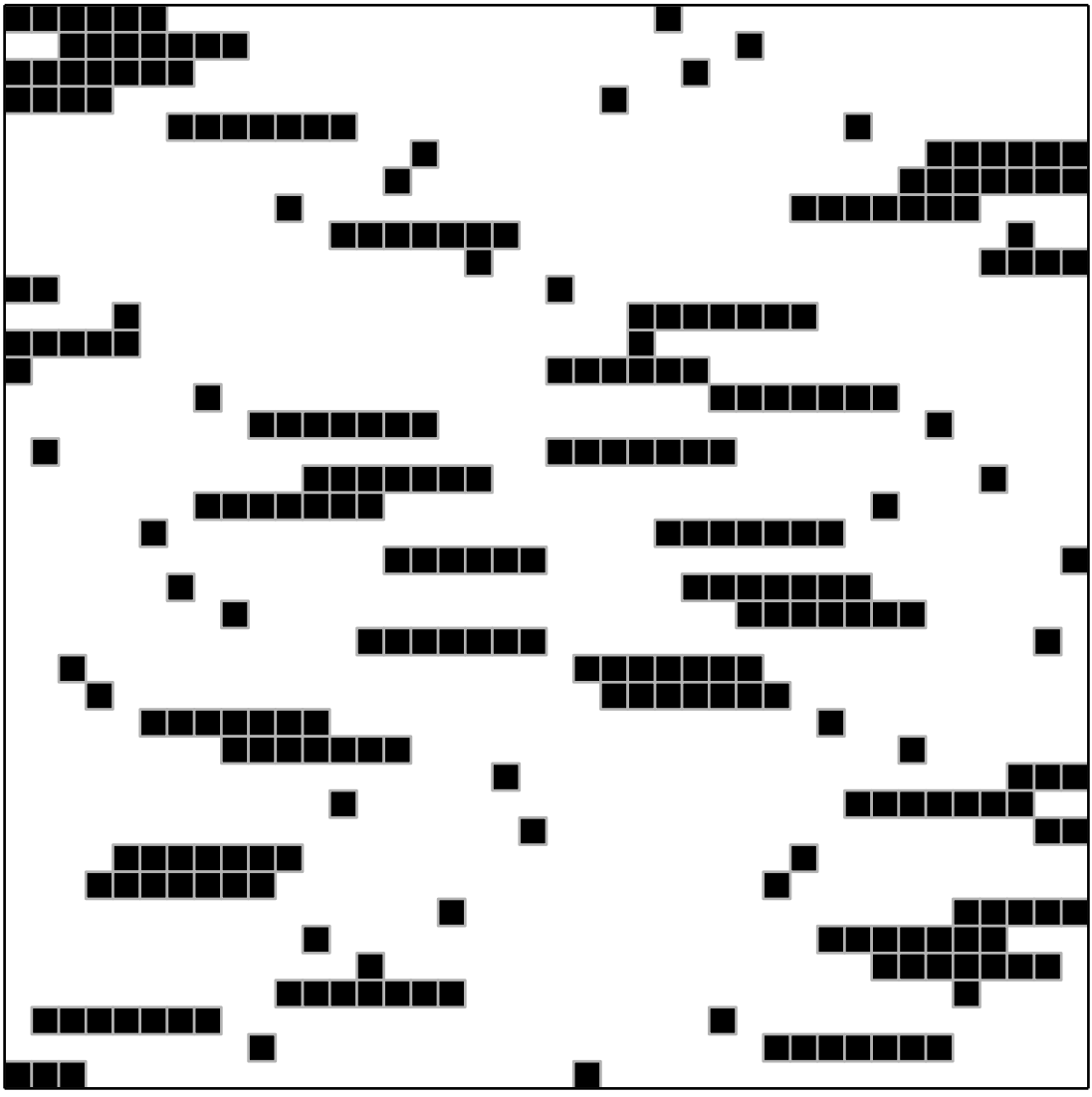
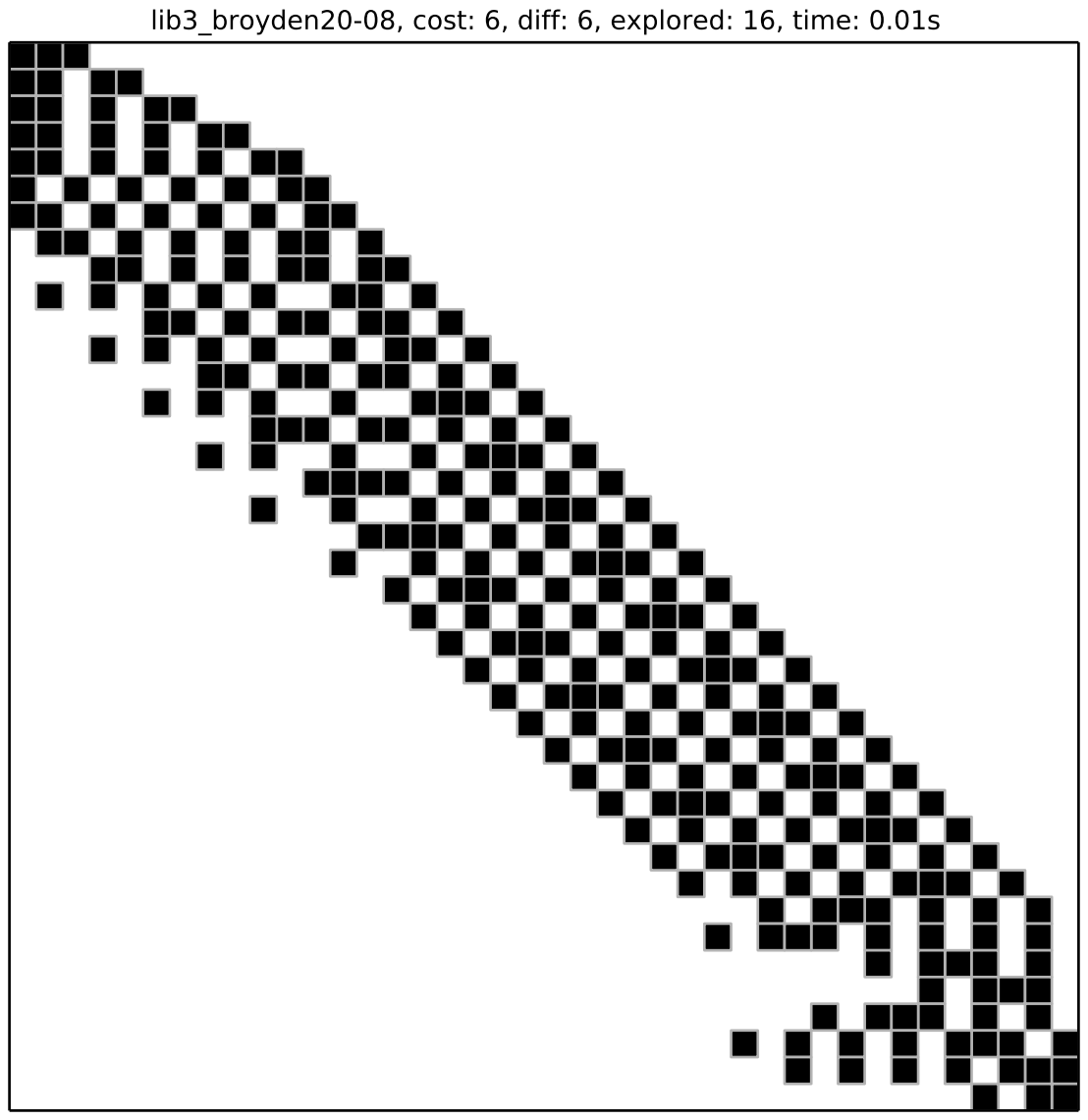
lib3_broyden20-08 40x40 (288) con: 20, var: 20

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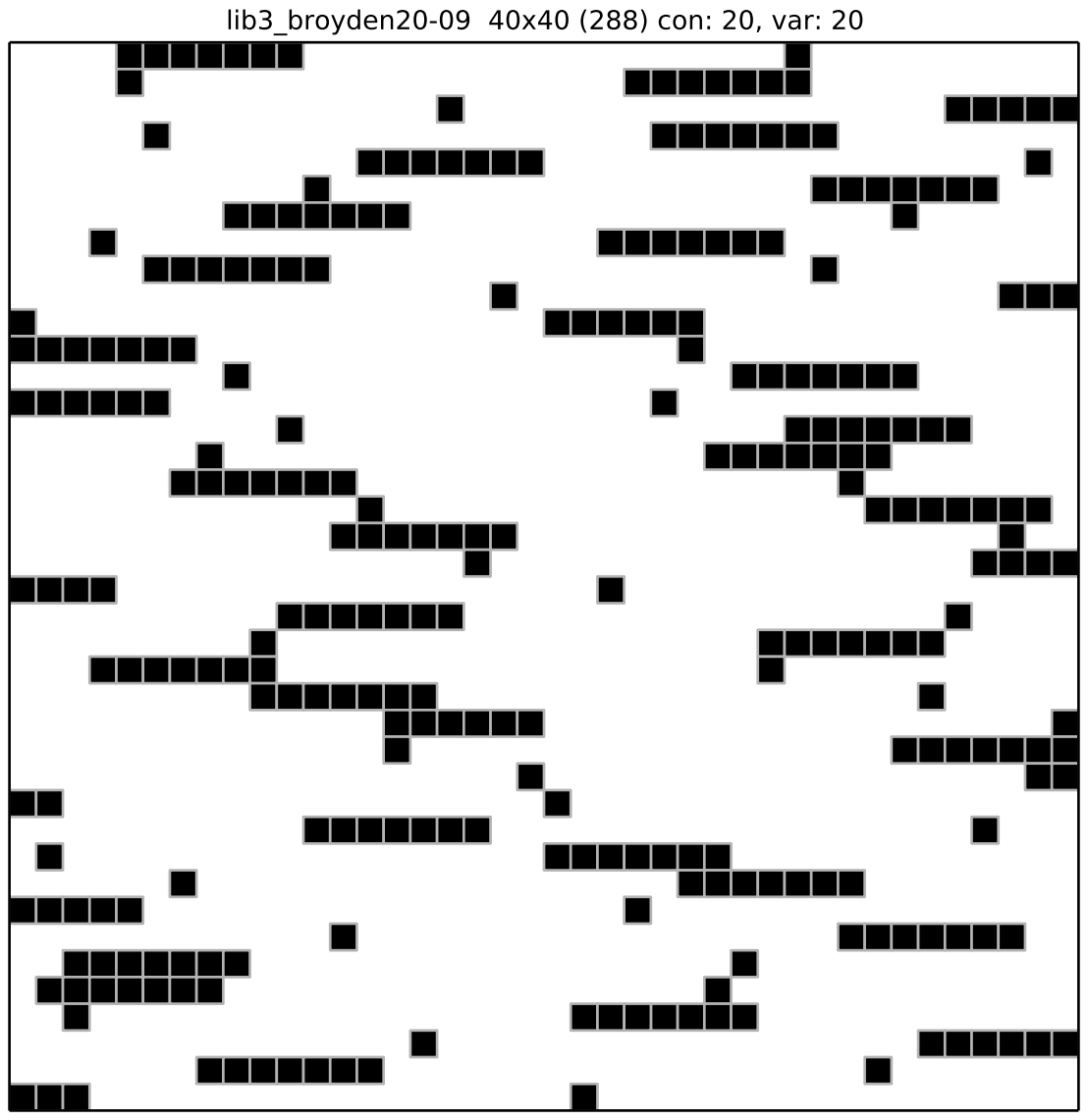
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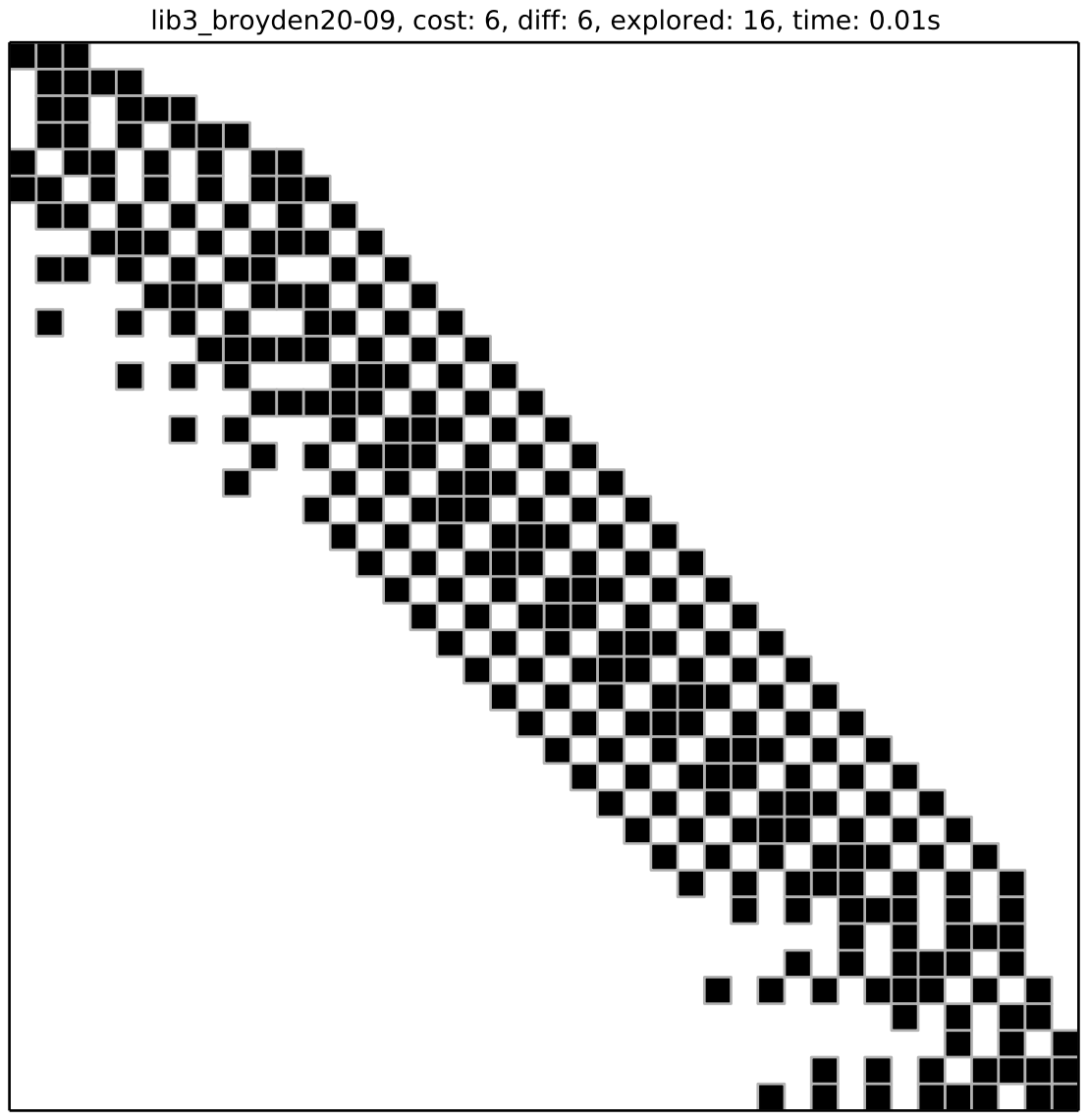
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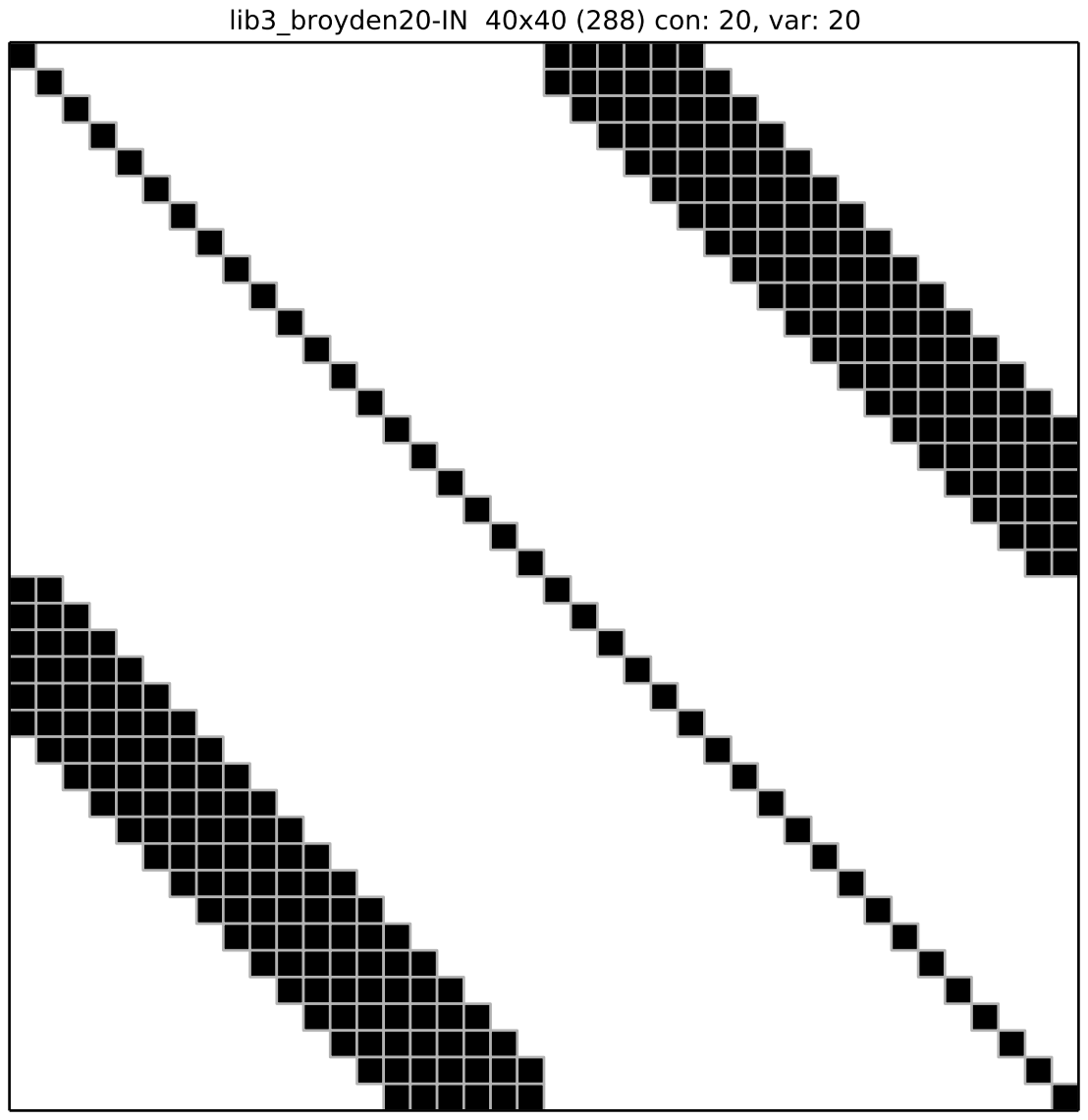
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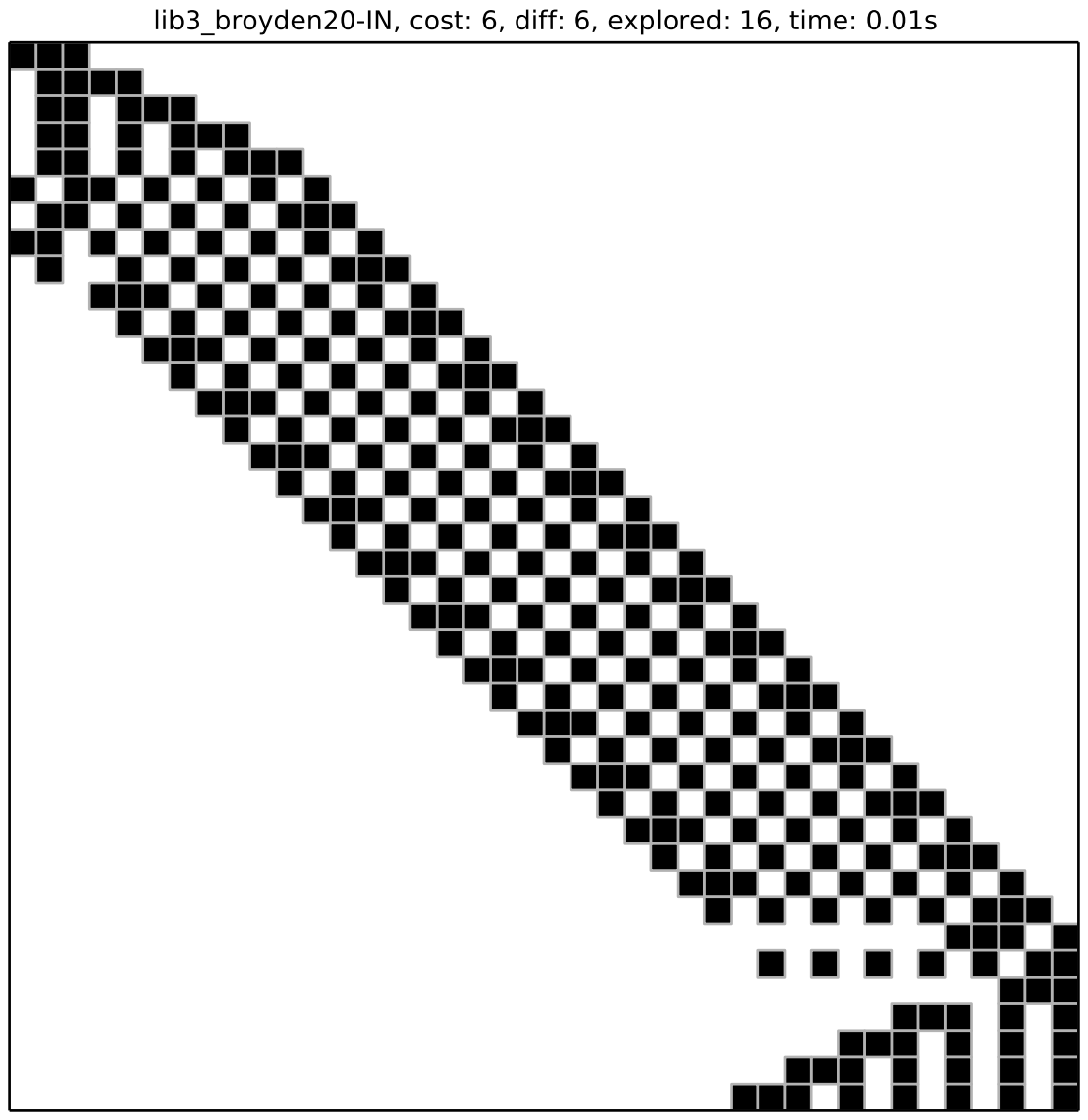
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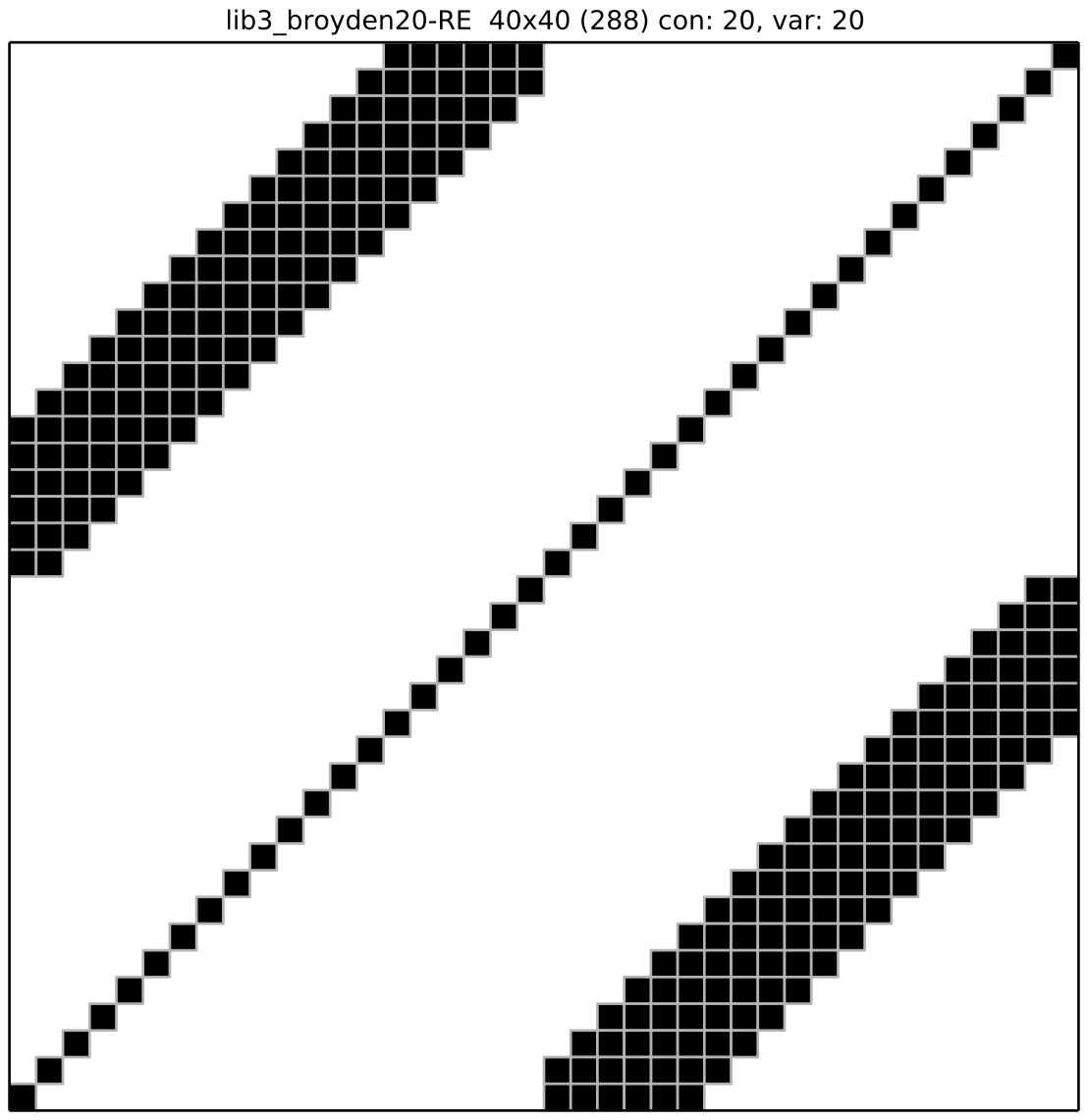
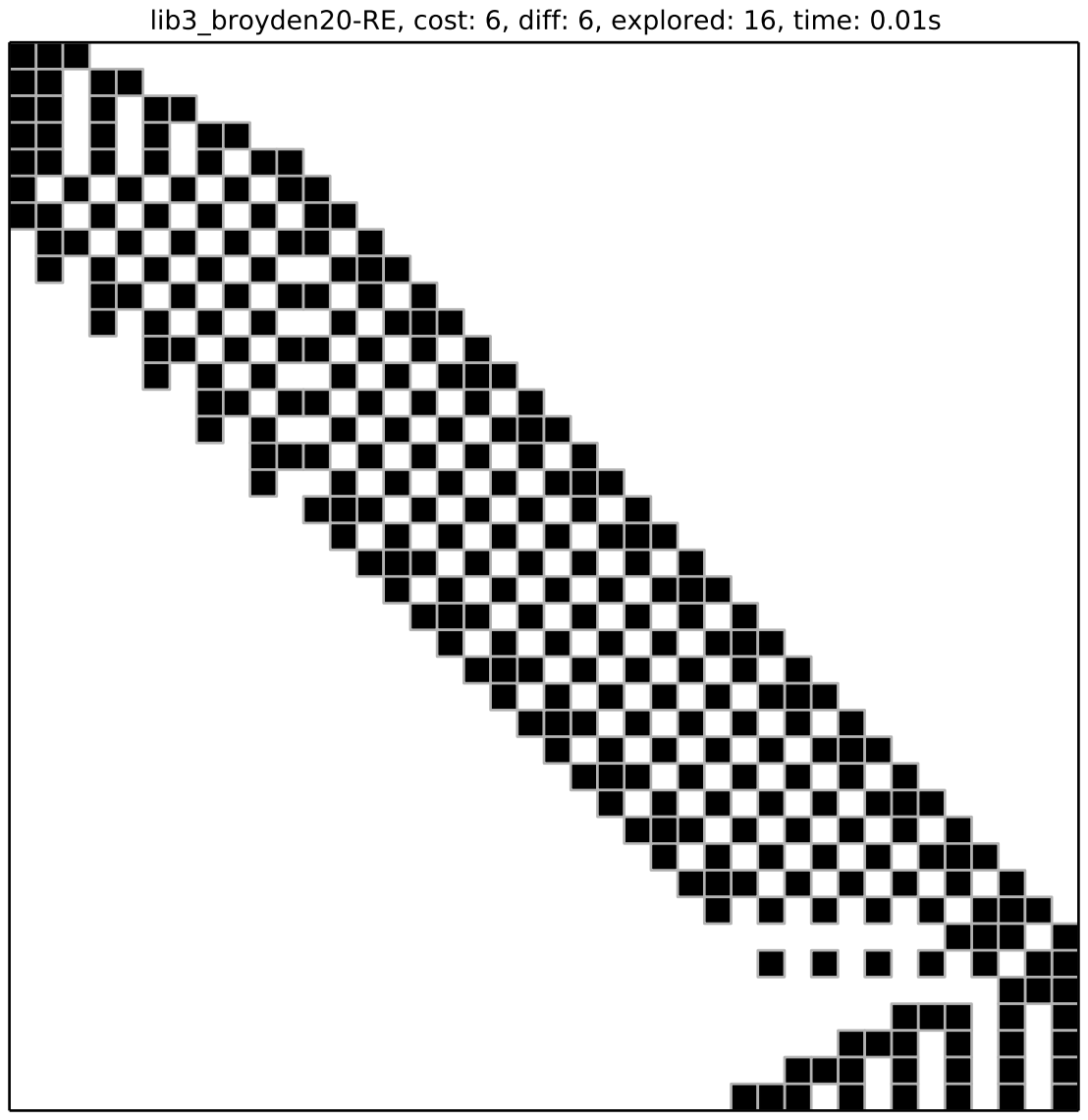

lib3_broyden20-RE 40x40 (288) con: 20, var: 20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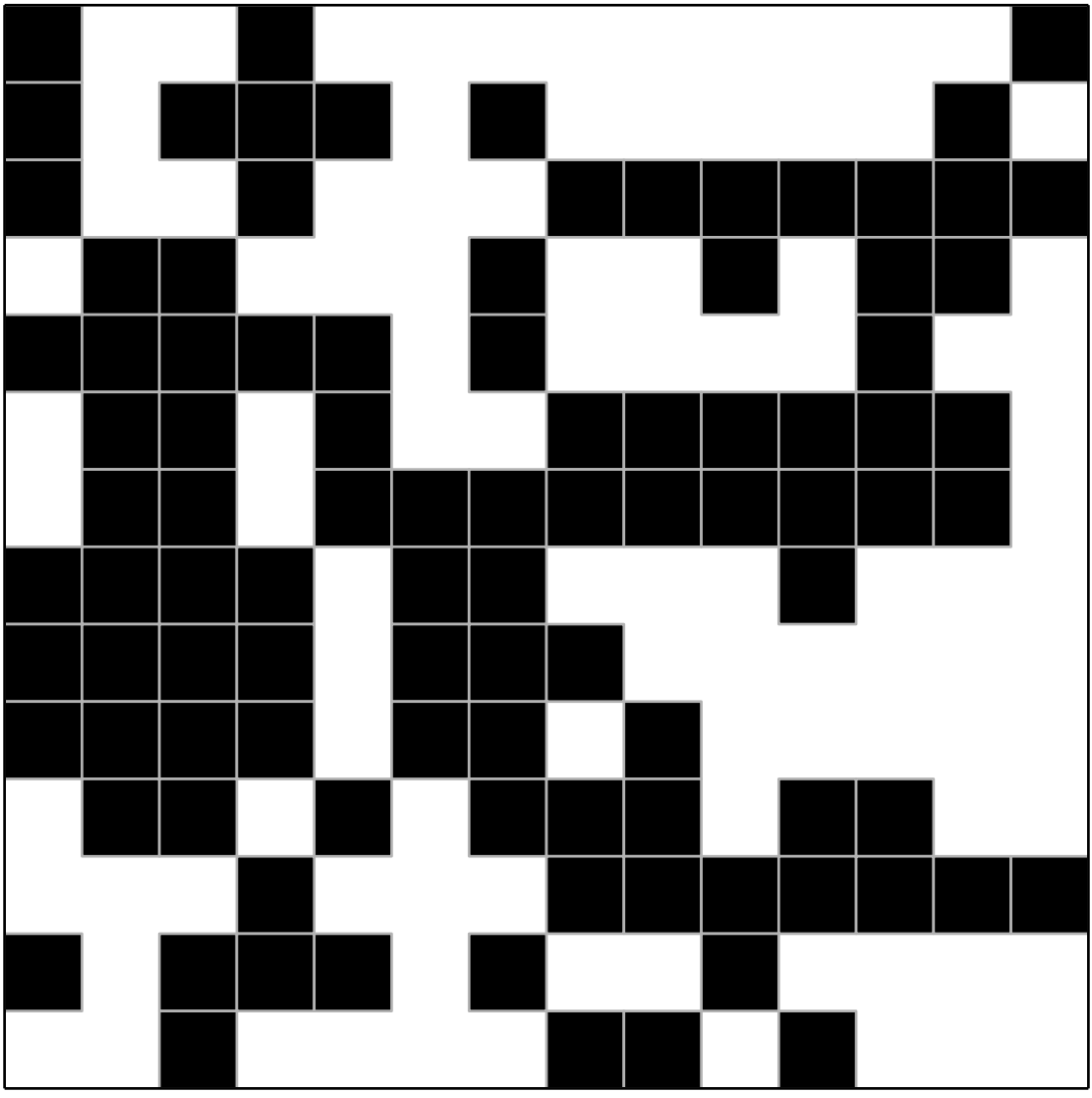
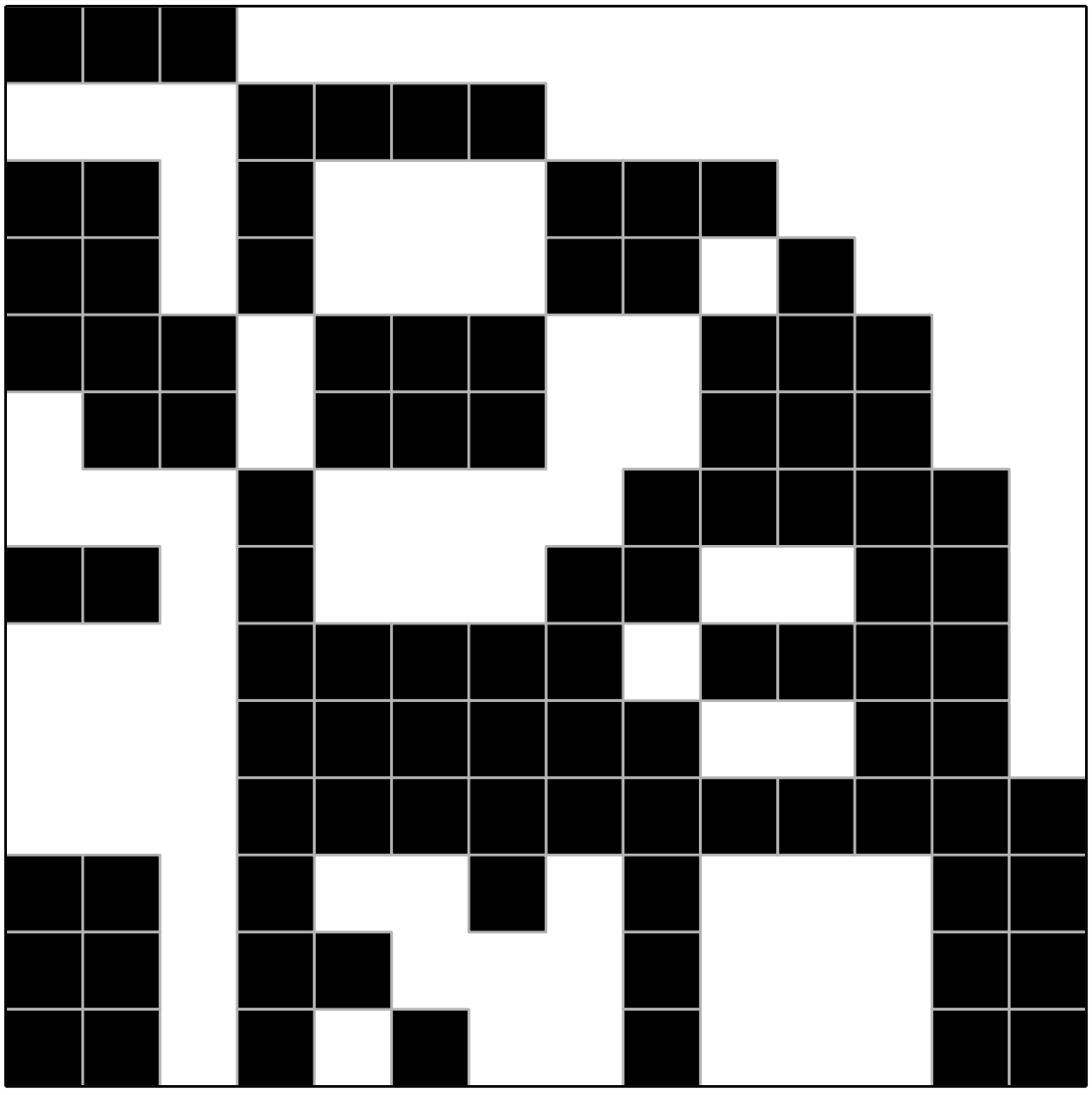
lib3_butcher-00 14x14 (98) con: 7, var: 7

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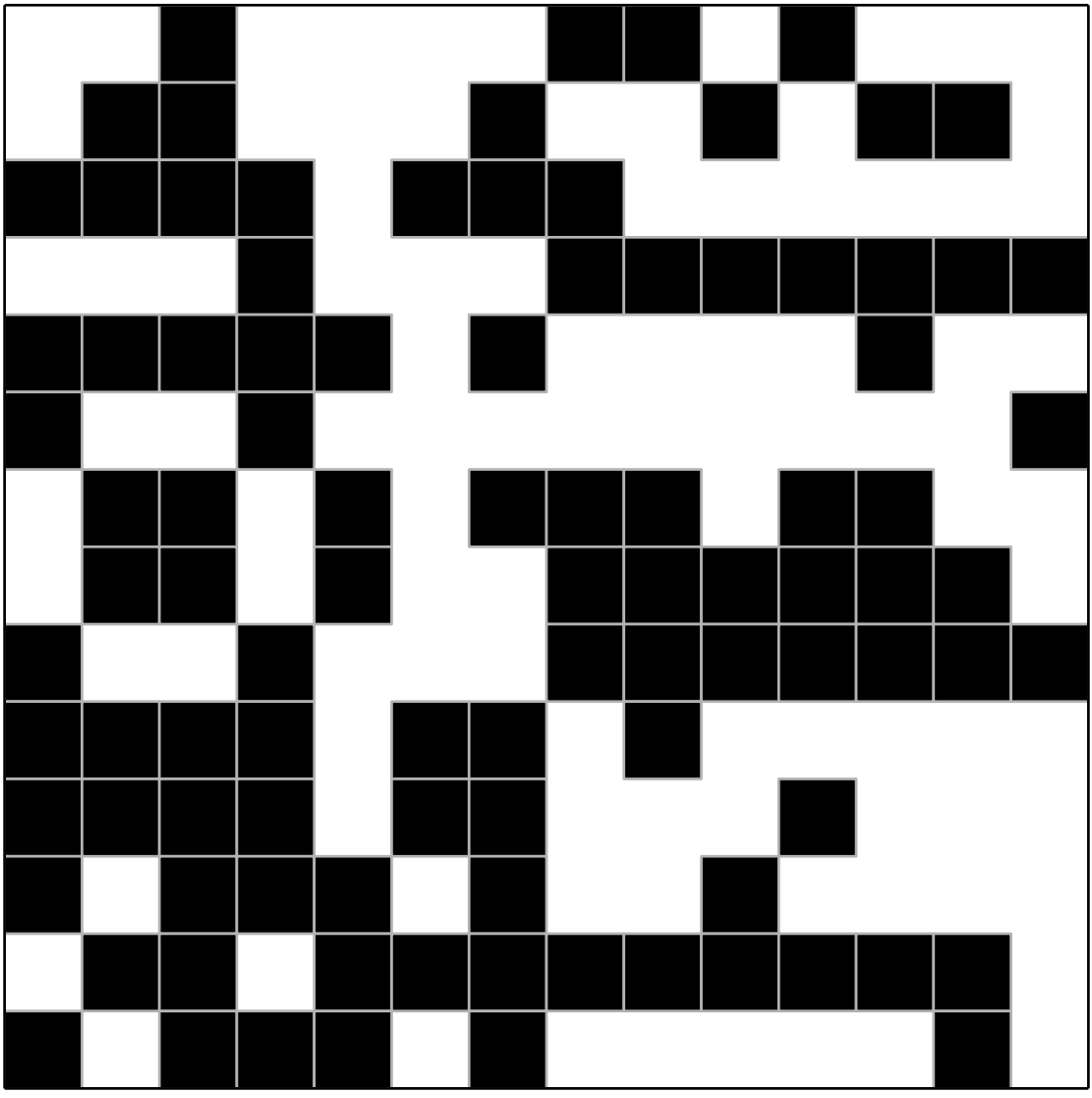
lib3_butcher-01 14x14 (98) con: 7, var: 7



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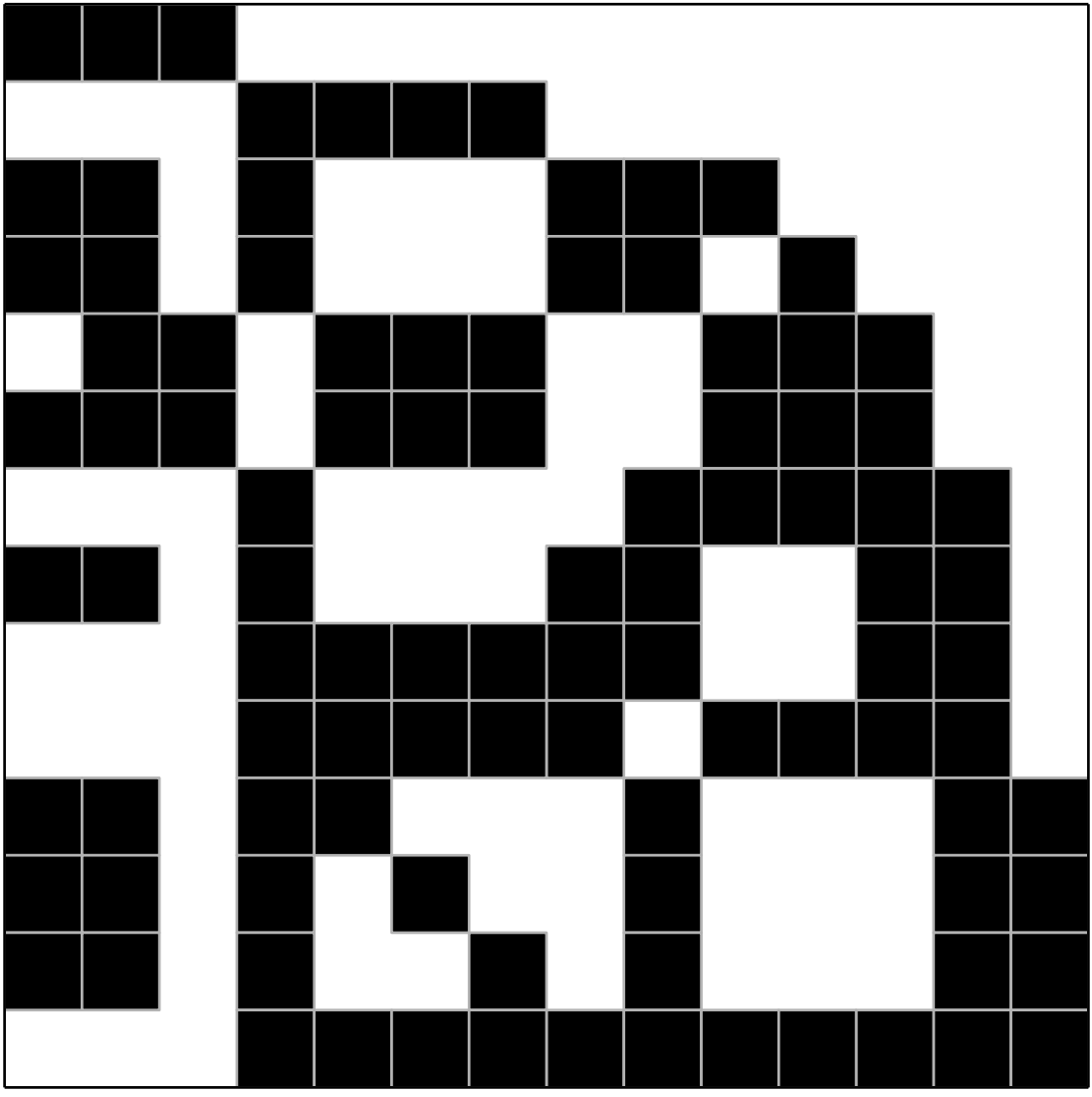
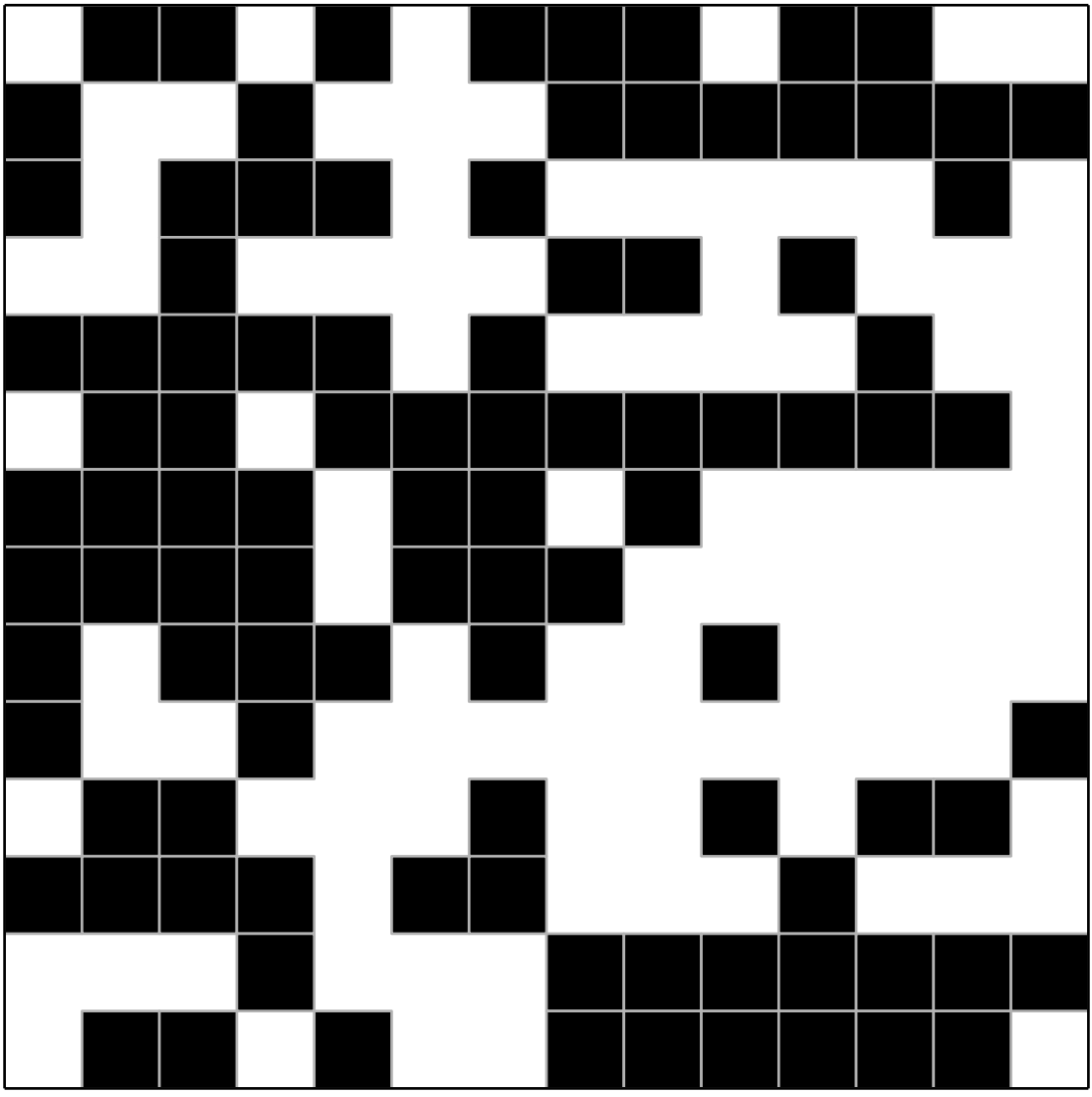
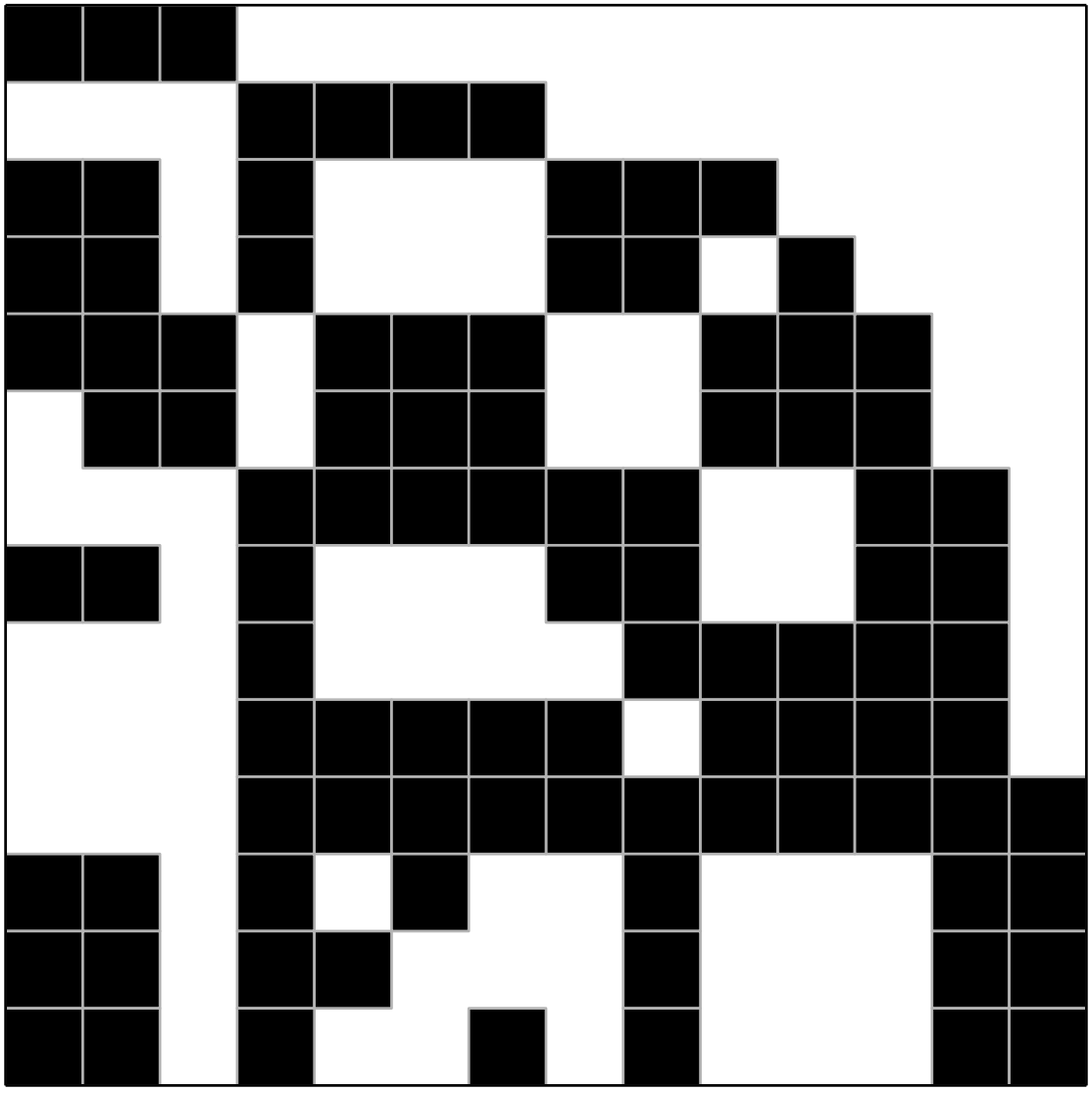


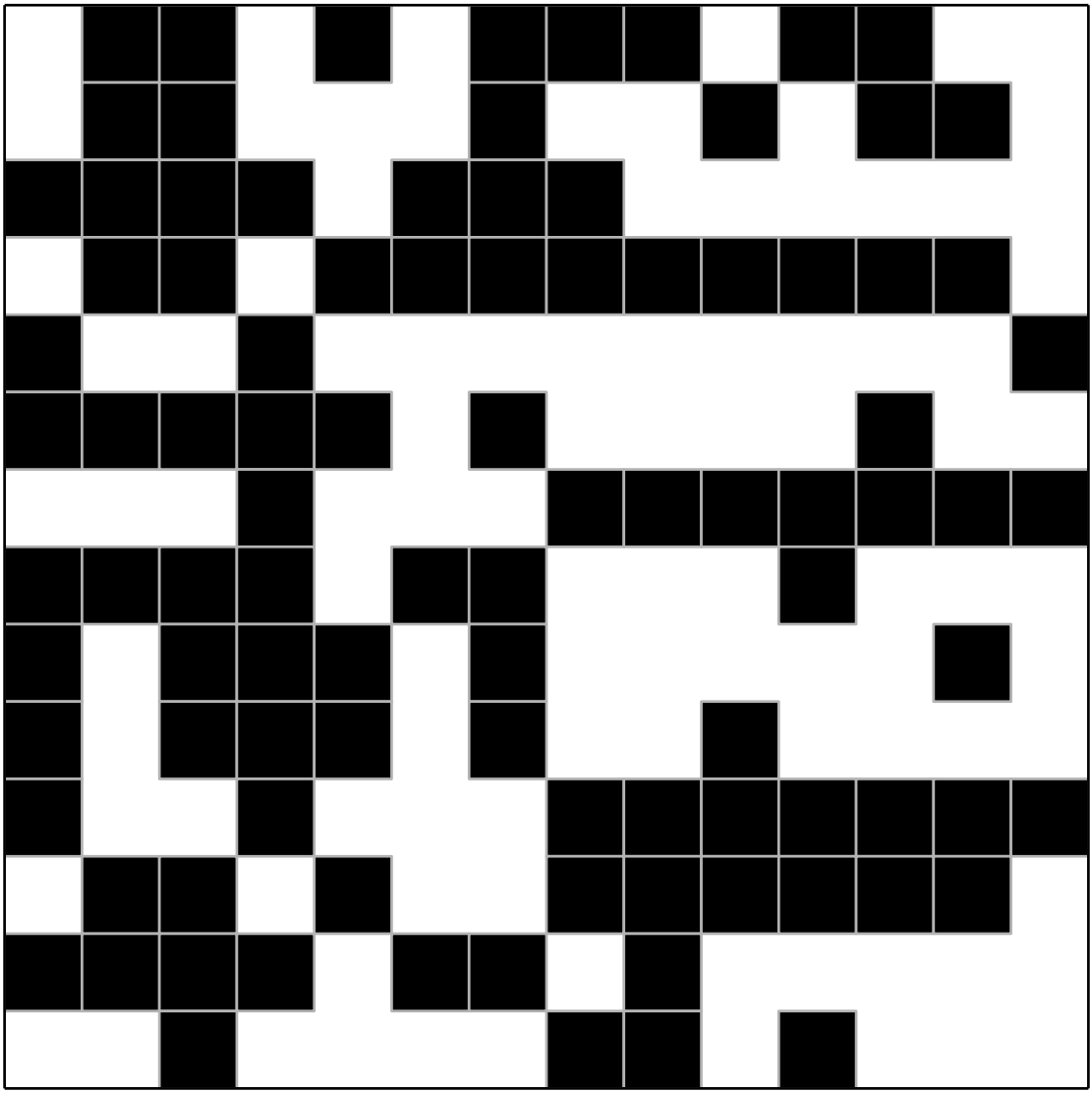
lib3_butcher-02 14x14 (98) con: 7, var: 7



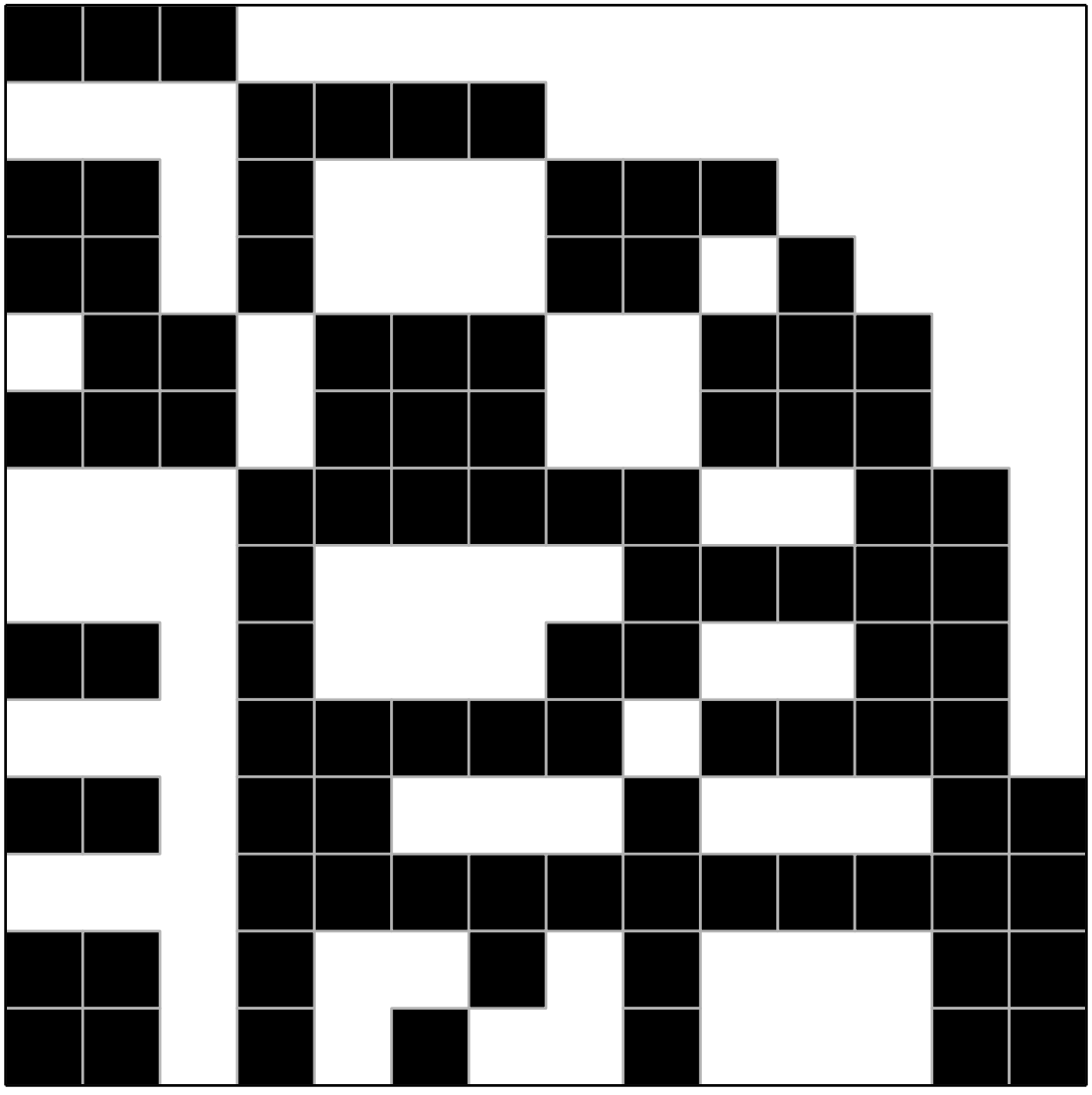
lib3_butcher-02, cost: 7, diff: 7, explored: 11, time: 0.00s



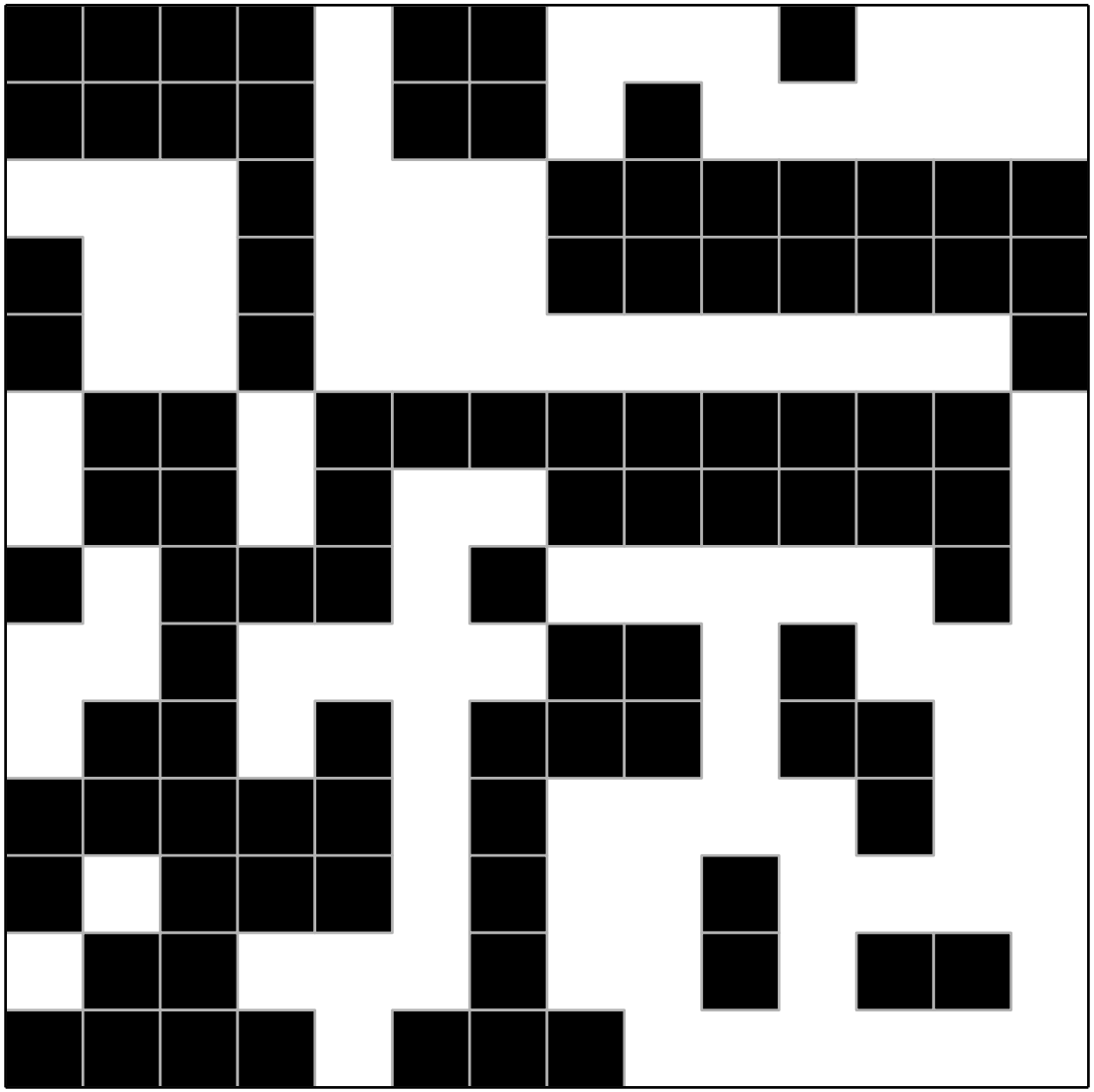
lib3_butcher-03 14x14 (98) con: 7, var: 7



lib3_butcher-03, cost: 7, diff: 7, explored: 12, time: 0.00s



lib3_butcher-04 14x14 (98) con: 7, var: 7



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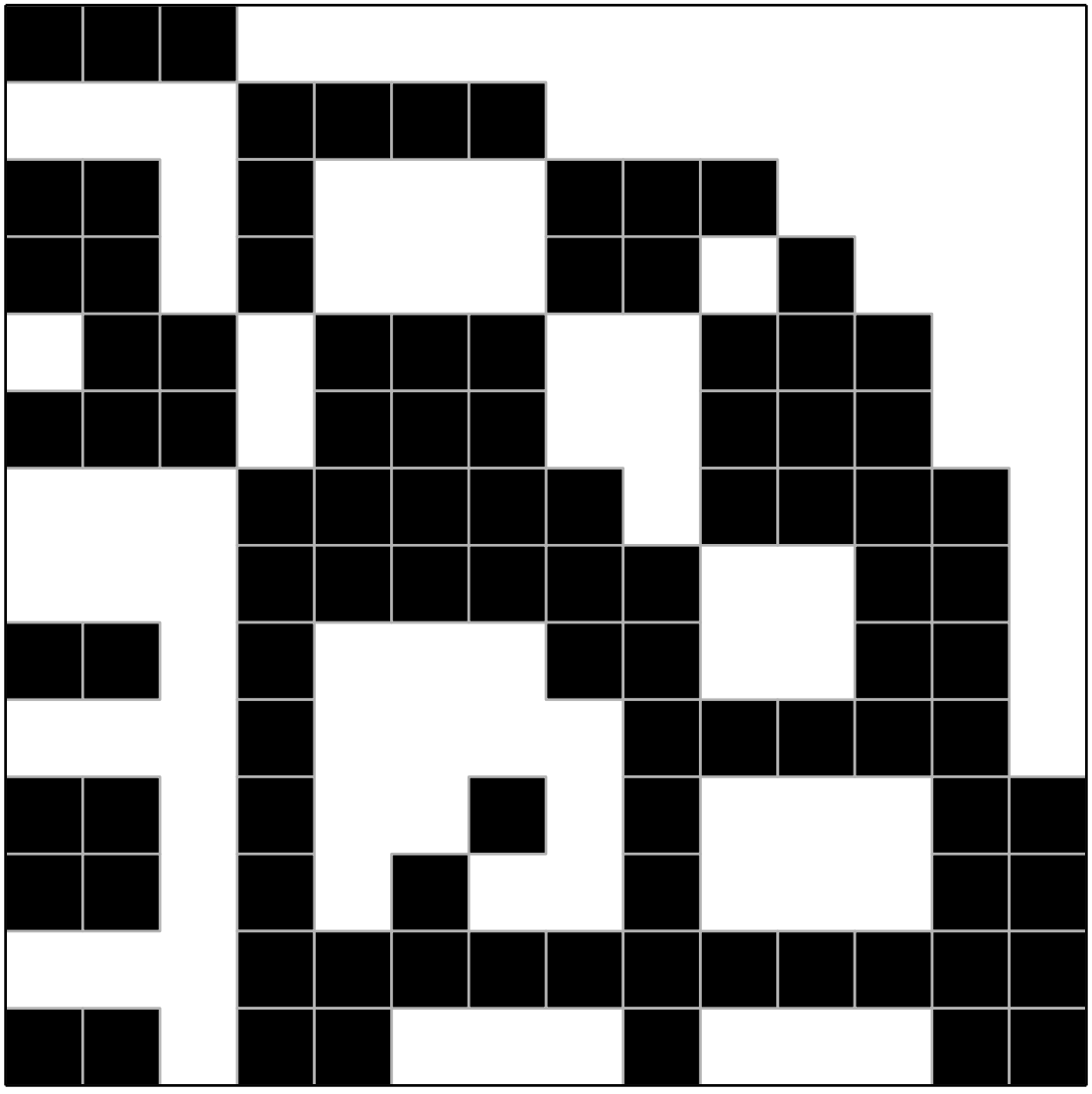

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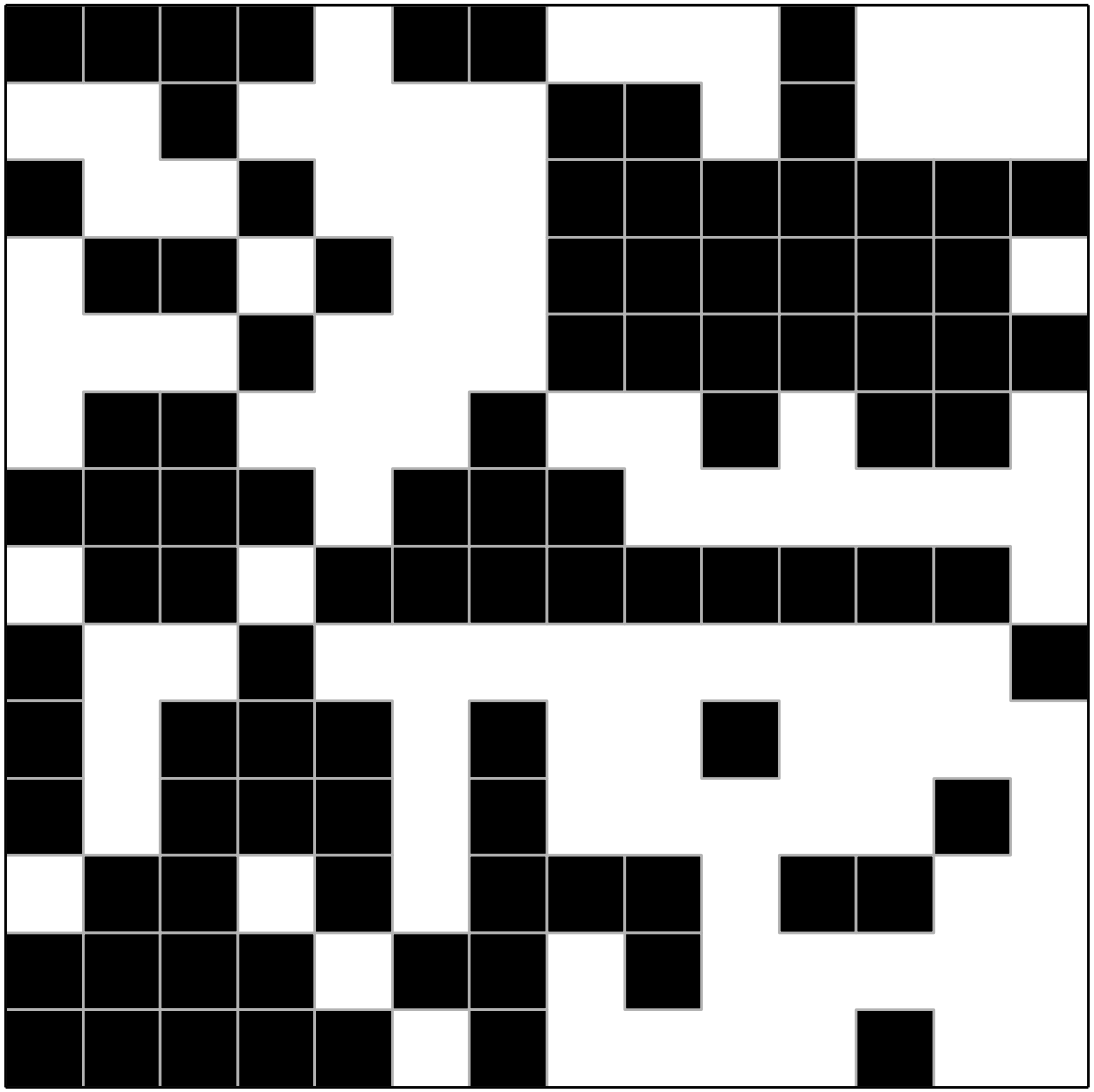

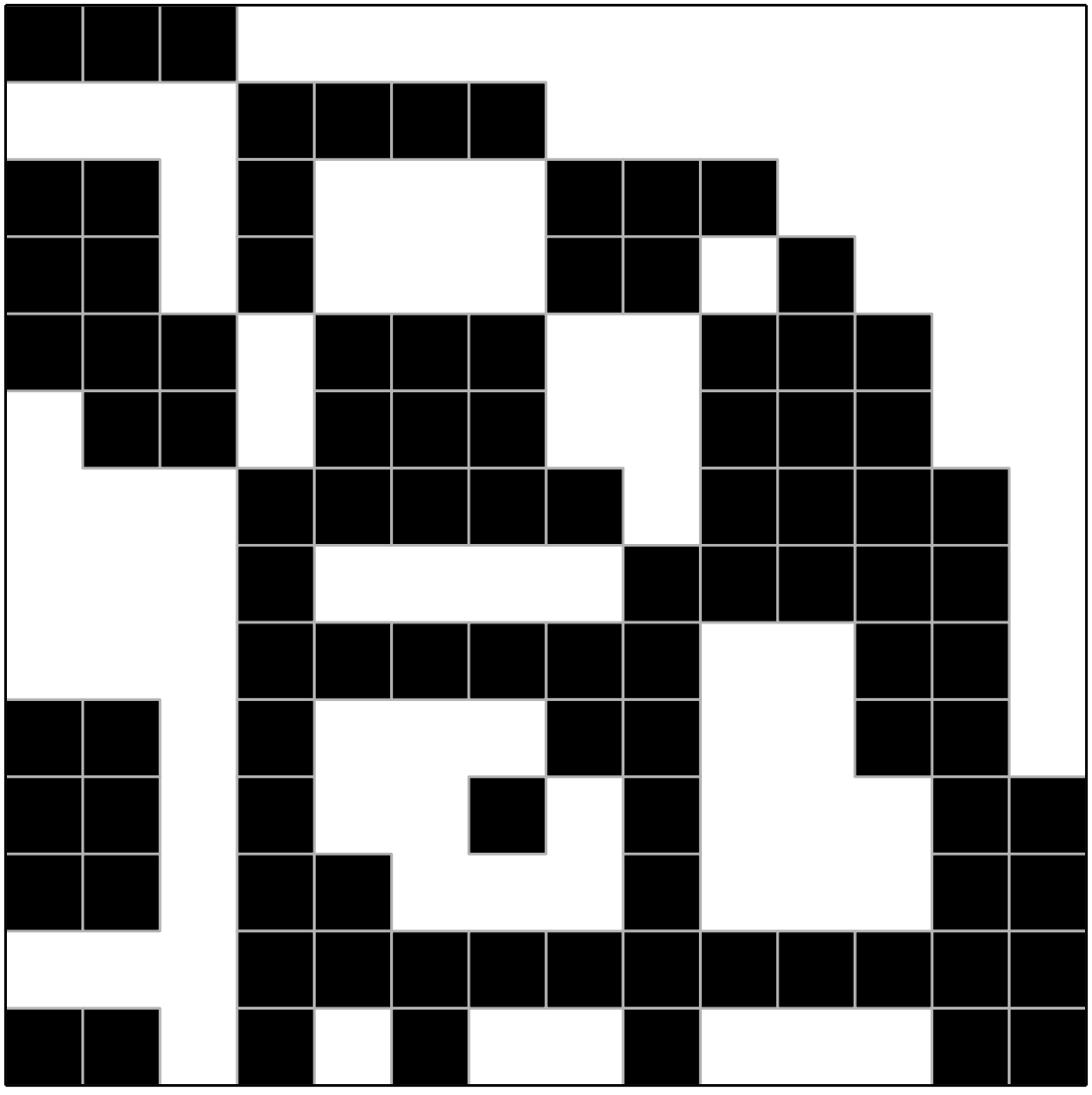
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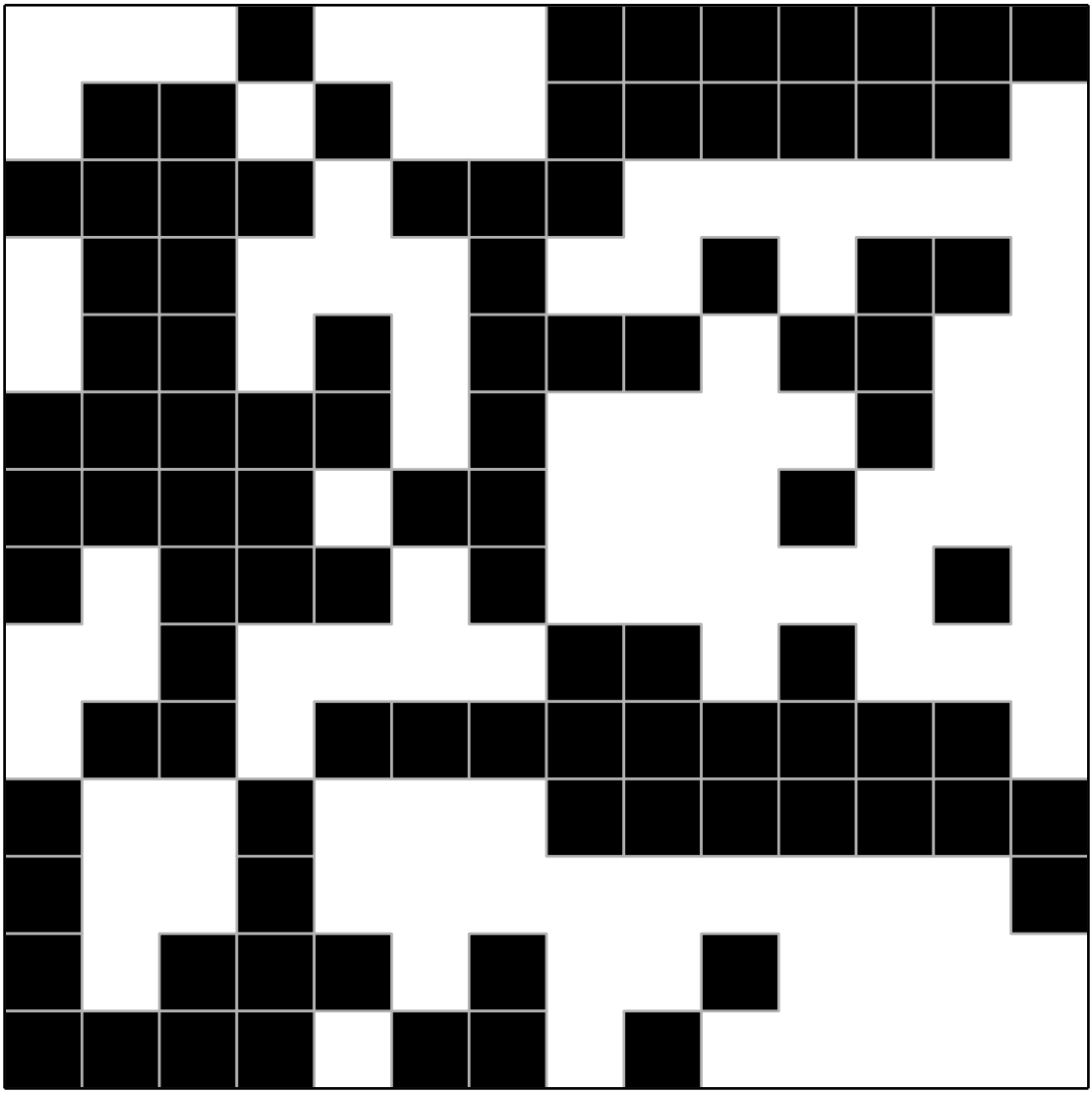
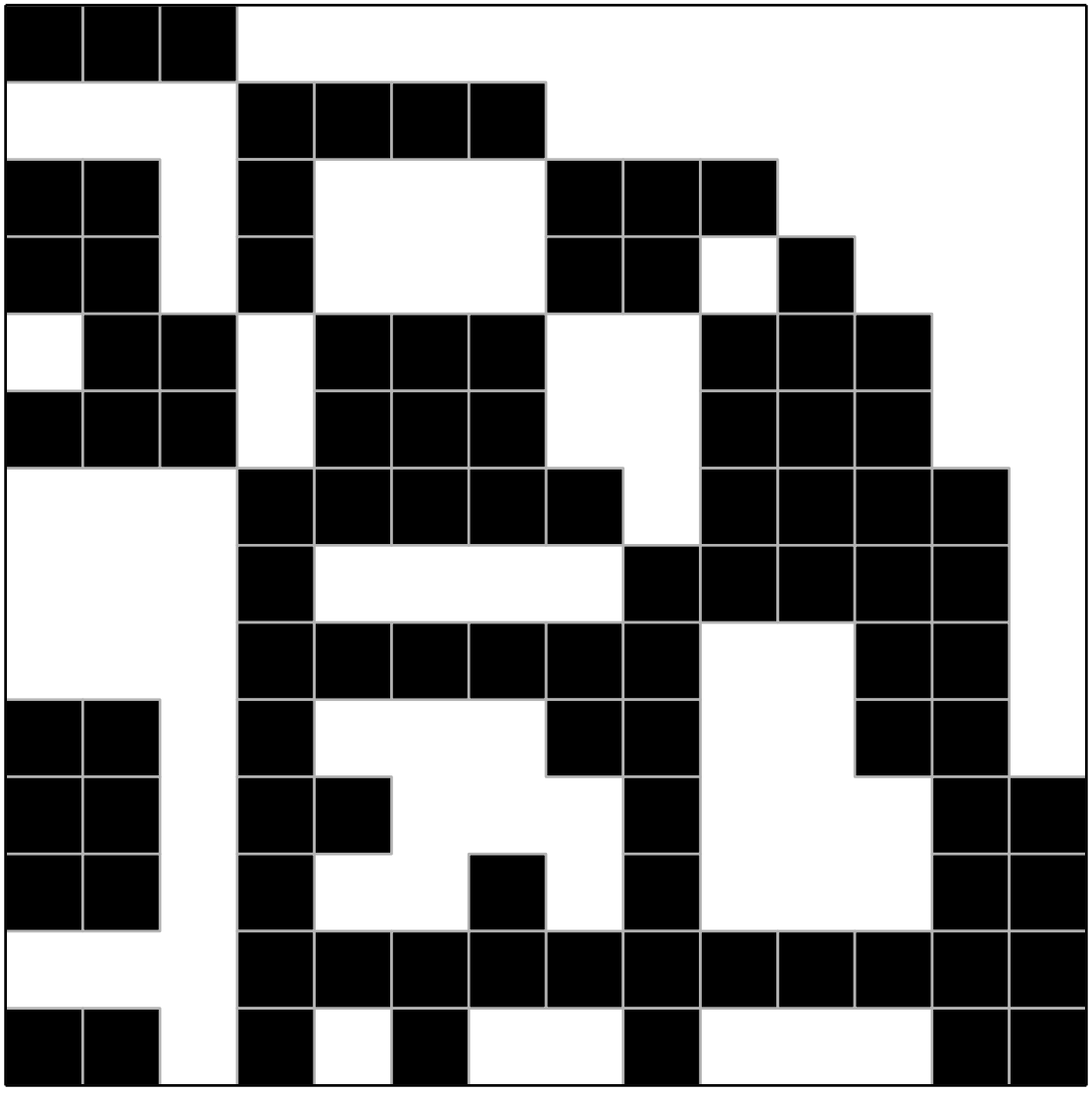
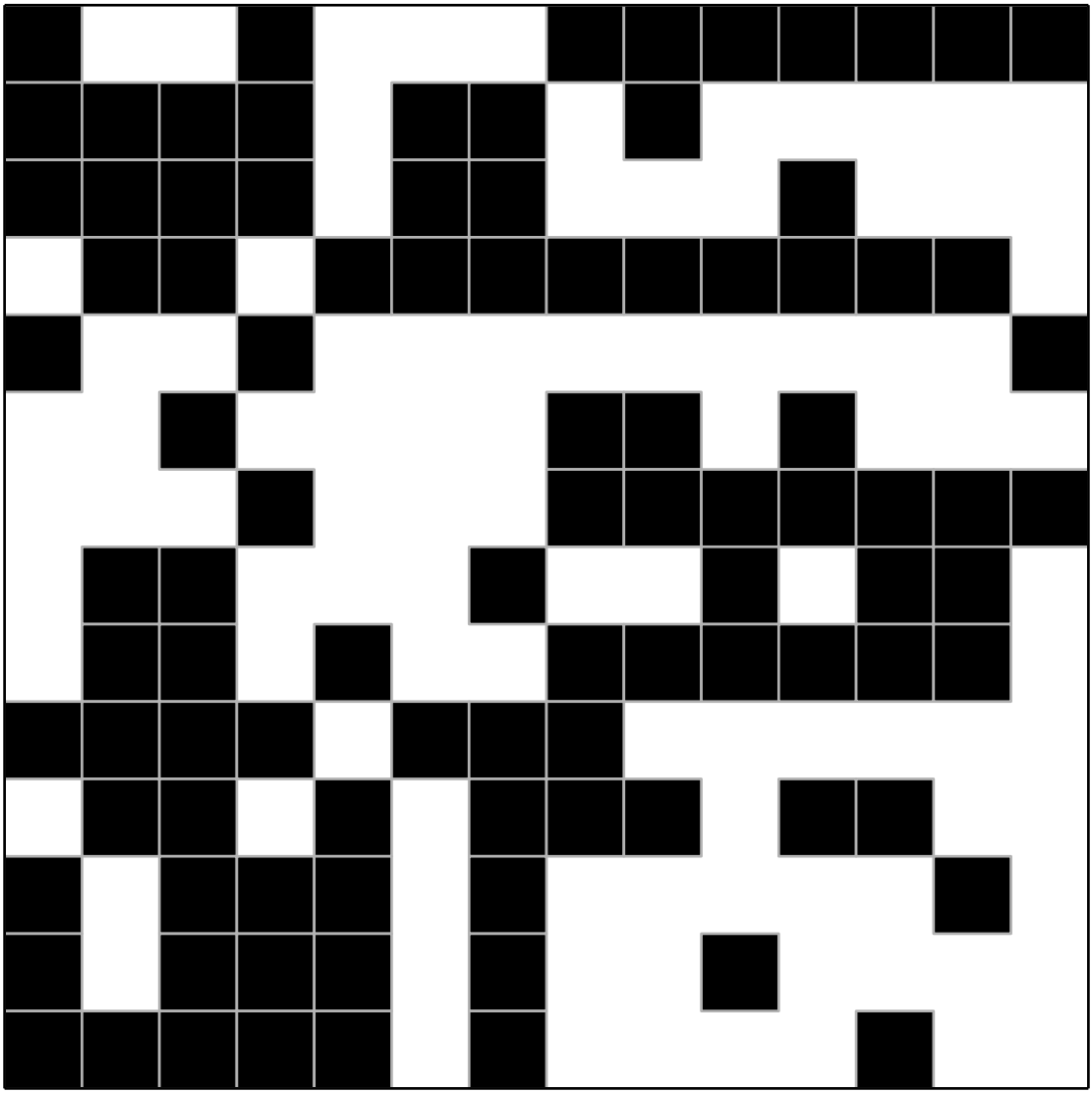
lib3_butcher-06 14x14 (98) con: 7, var: 7

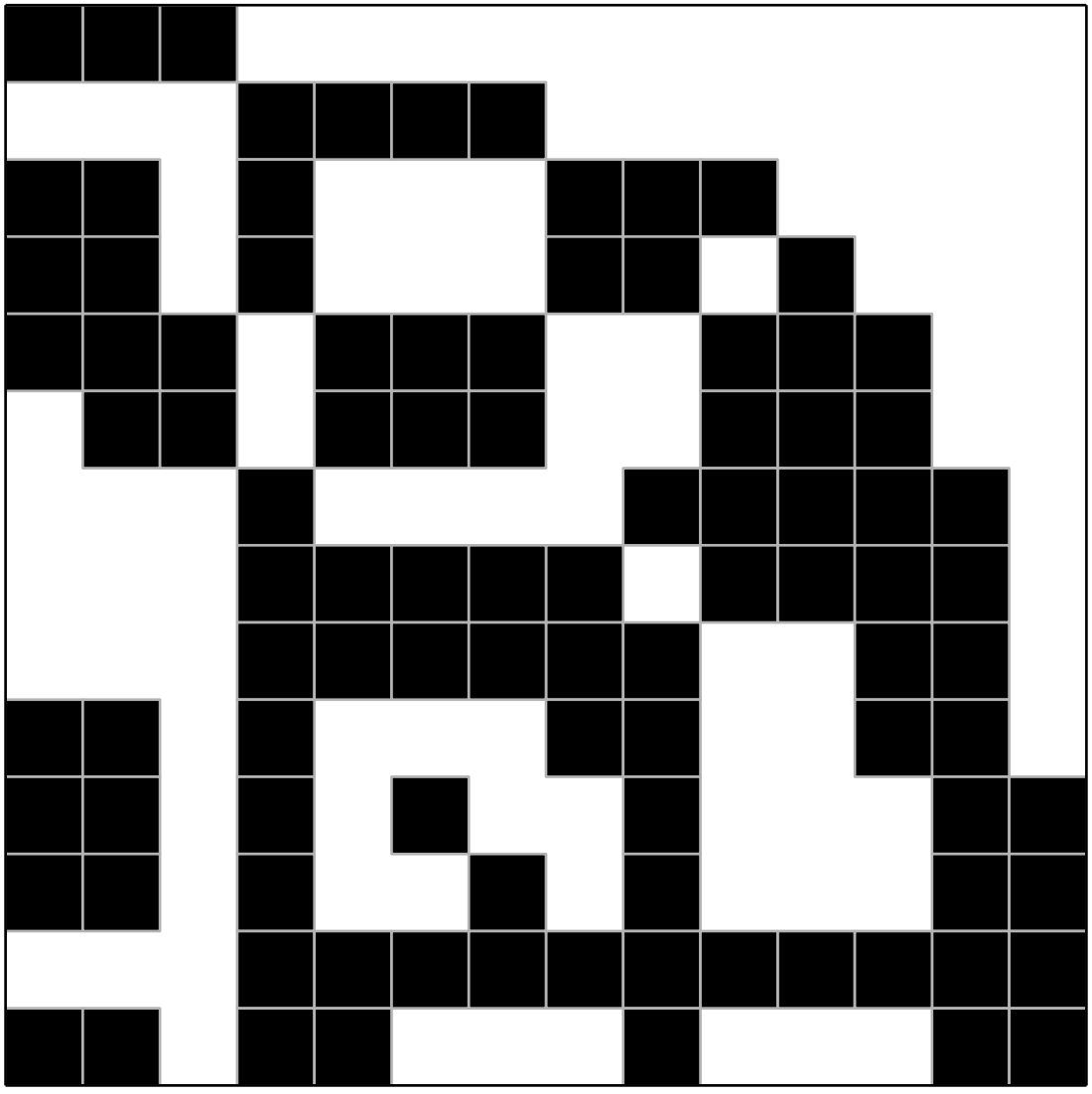



lib3_butcher-06, cost: 7, diff: 7, explored: 12, time: 0.00s

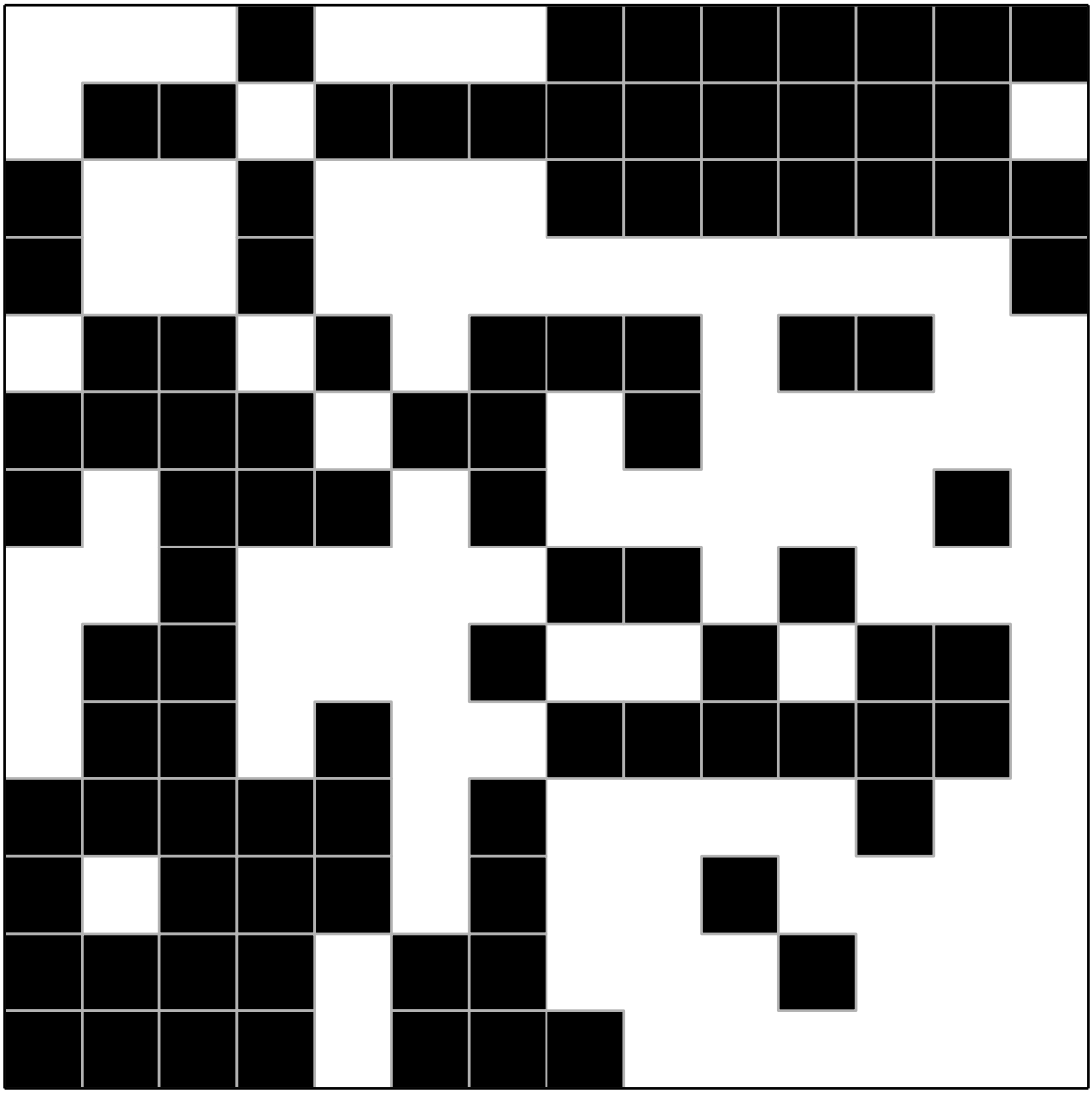
lib3_butcher-07 14x14 (98) con: 7, var: 7

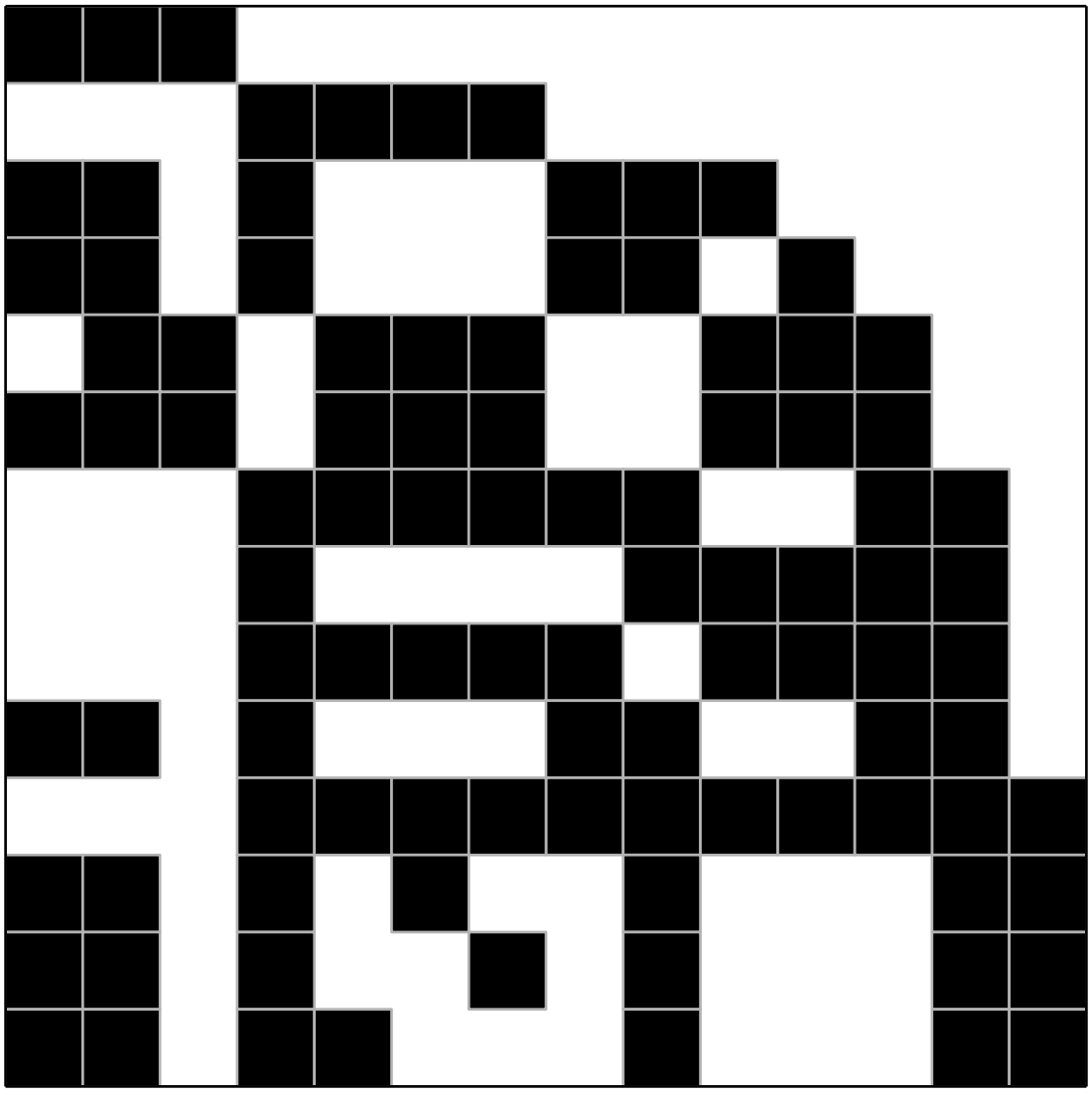


lib3_butcher-07, cost: 7, diff: 7, explored: 12, time: 0.01s

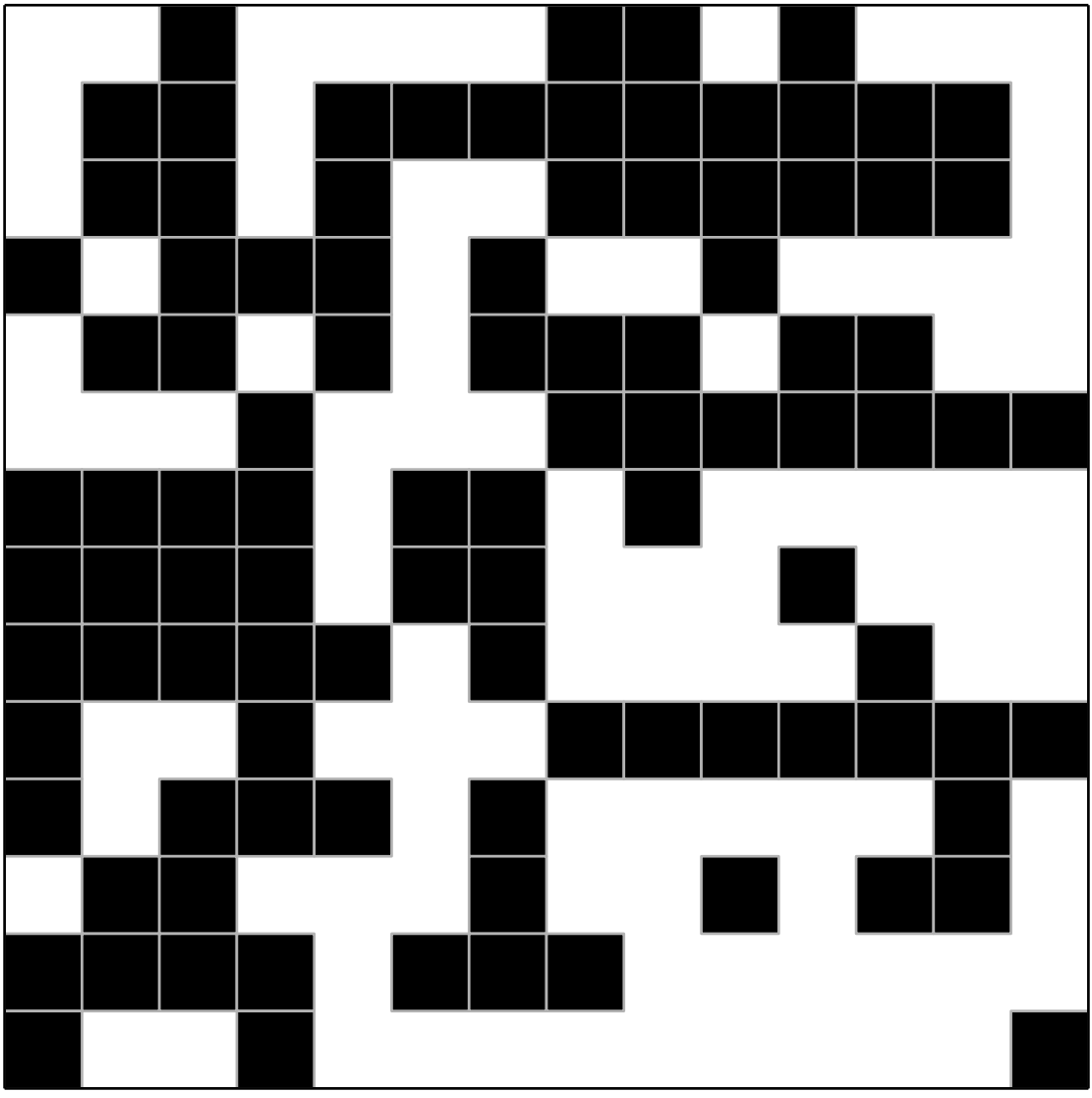


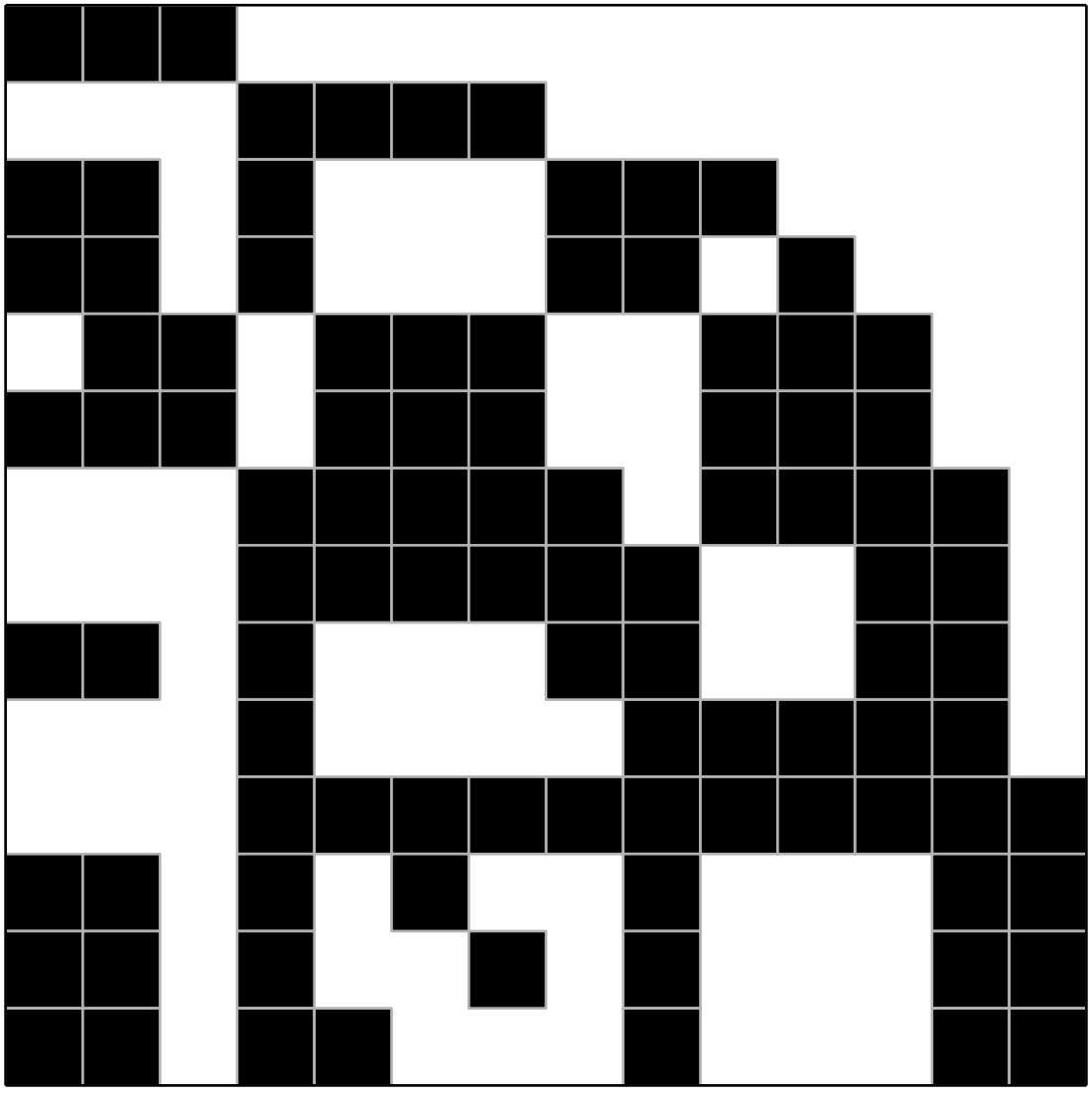
lib3_butcher-08 14x14 (98) con: 7, var: 7



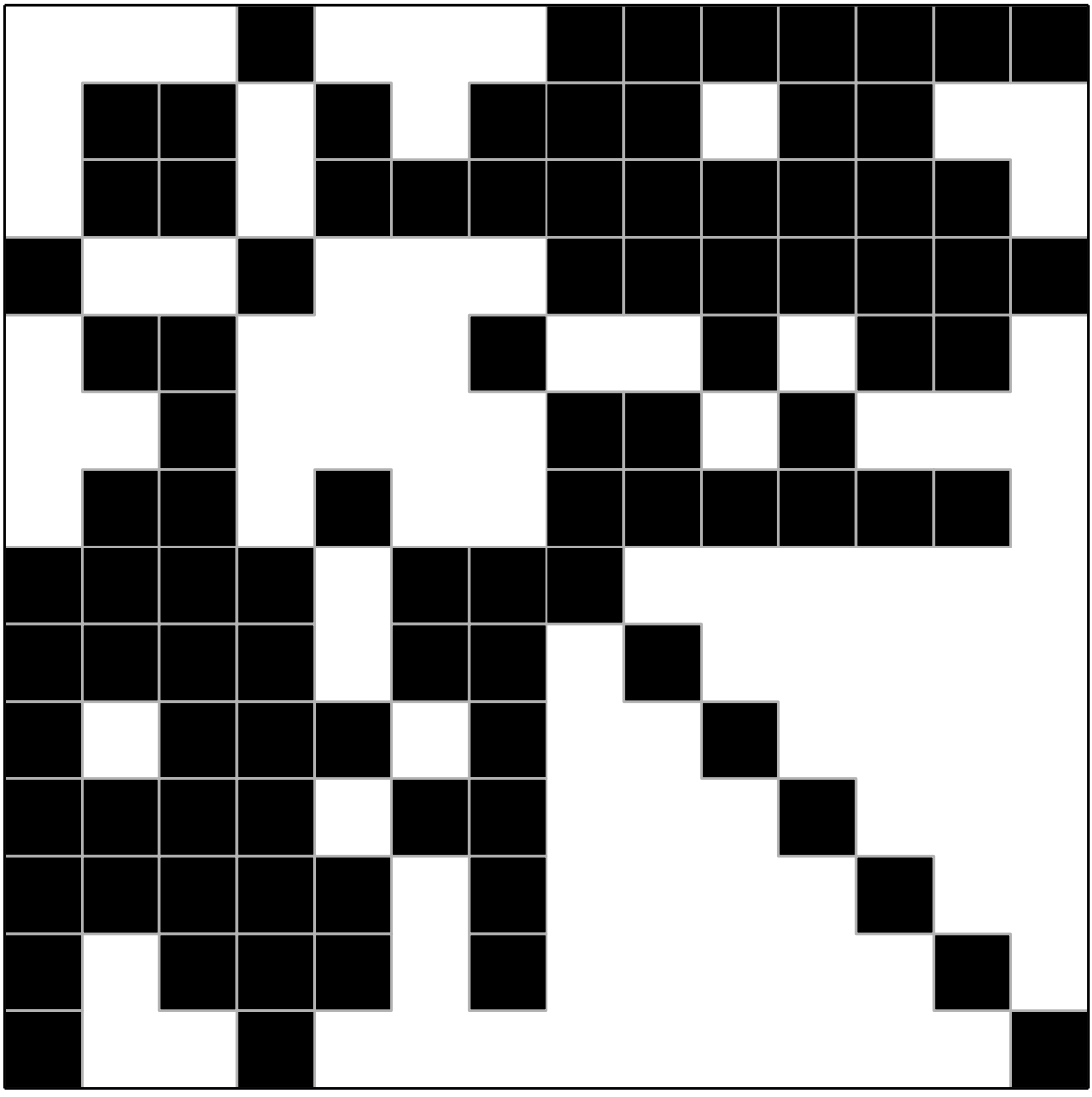

lib3_butcher-08, cost: 7, diff: 7, explored: 12, time: 0.00s

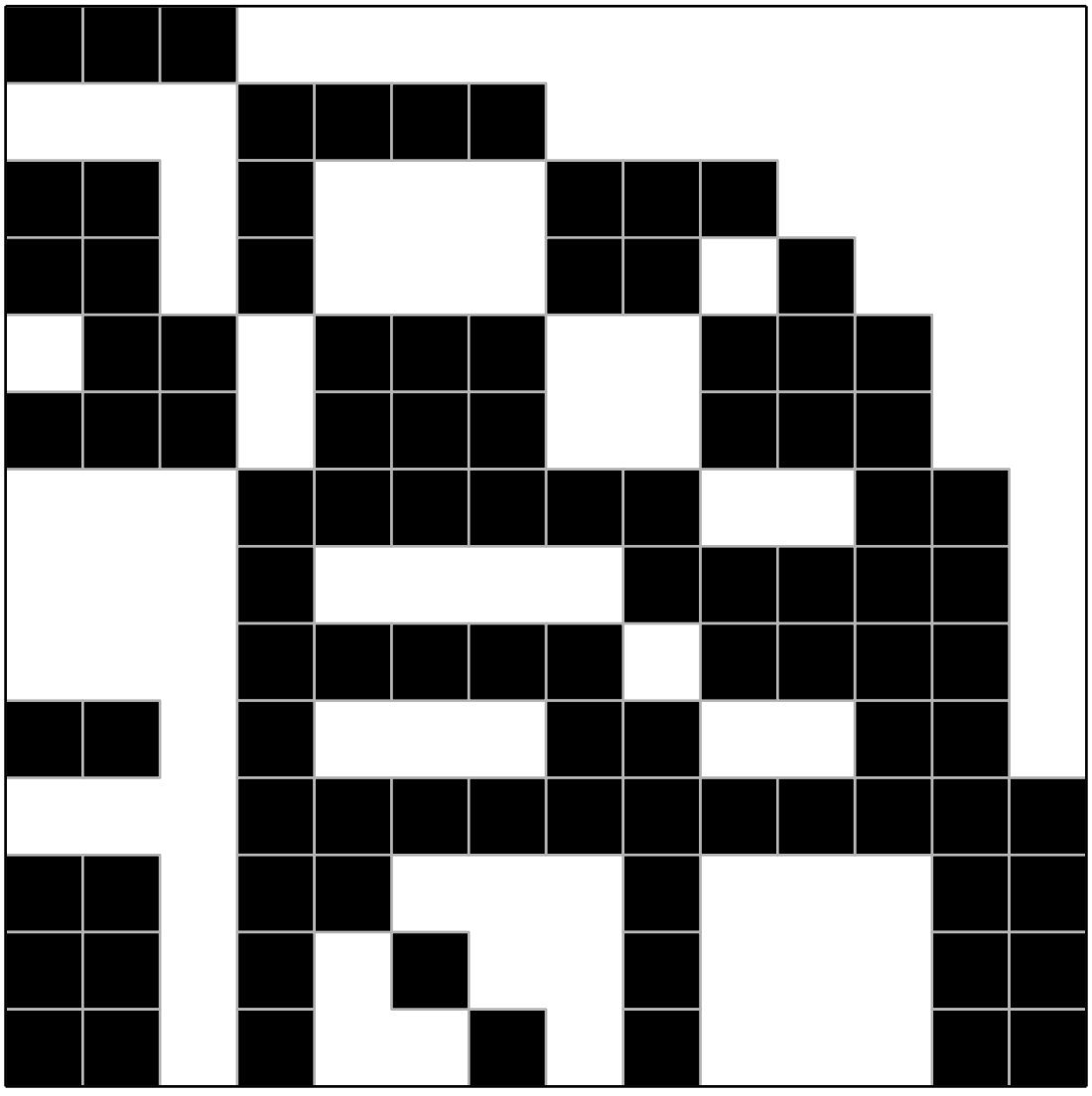
lib3_butcher-09 14x14 (98) con: 7, var: 7




lib3_butcher-09, cost: 7, diff: 7, explored: 10, time: 0.00s

lib3_butcher-IN 14x14 (98) con: 7, var: 7

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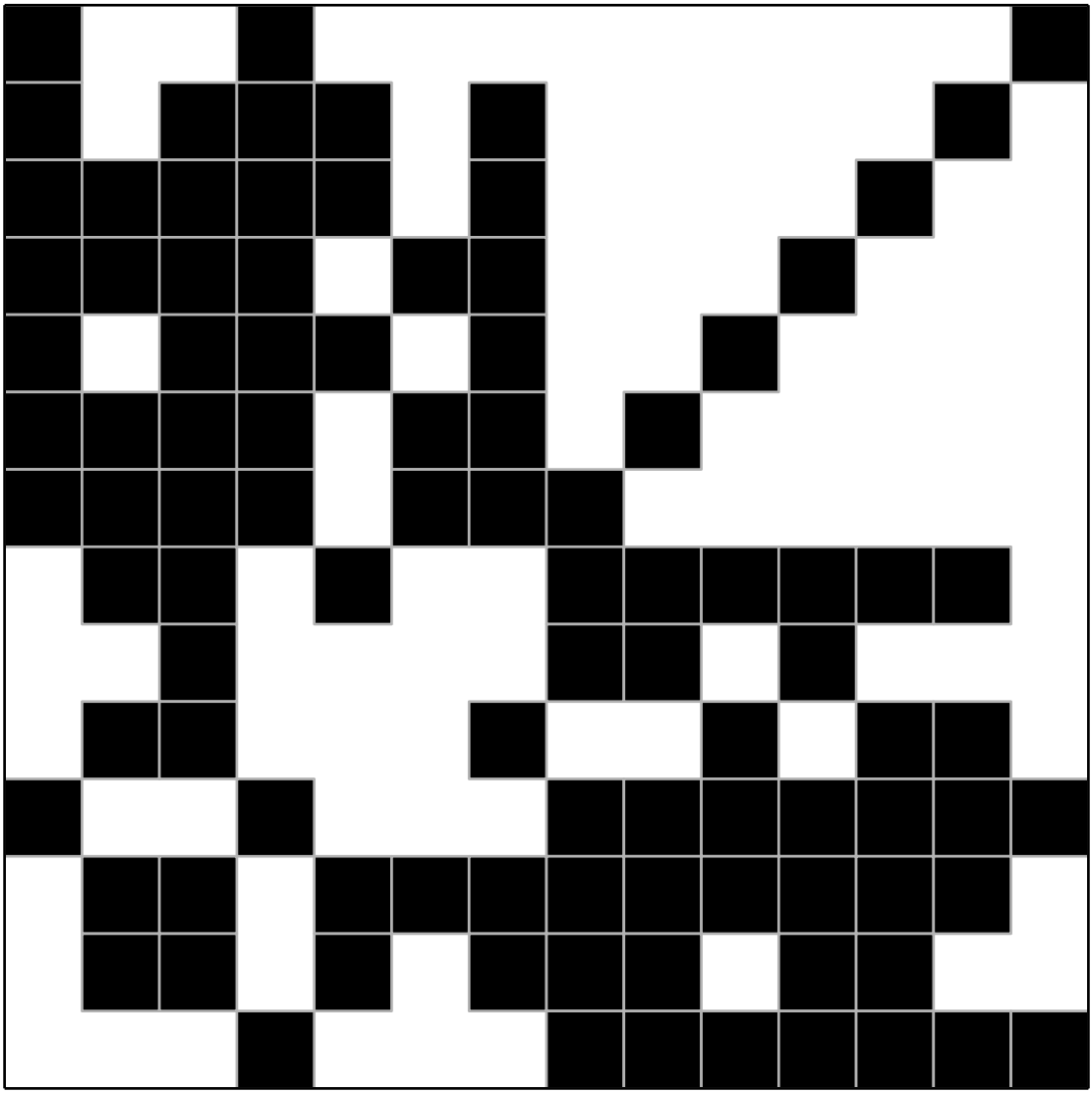
lib3_butcher-RE 14x14 (98) con: 7, var: 7



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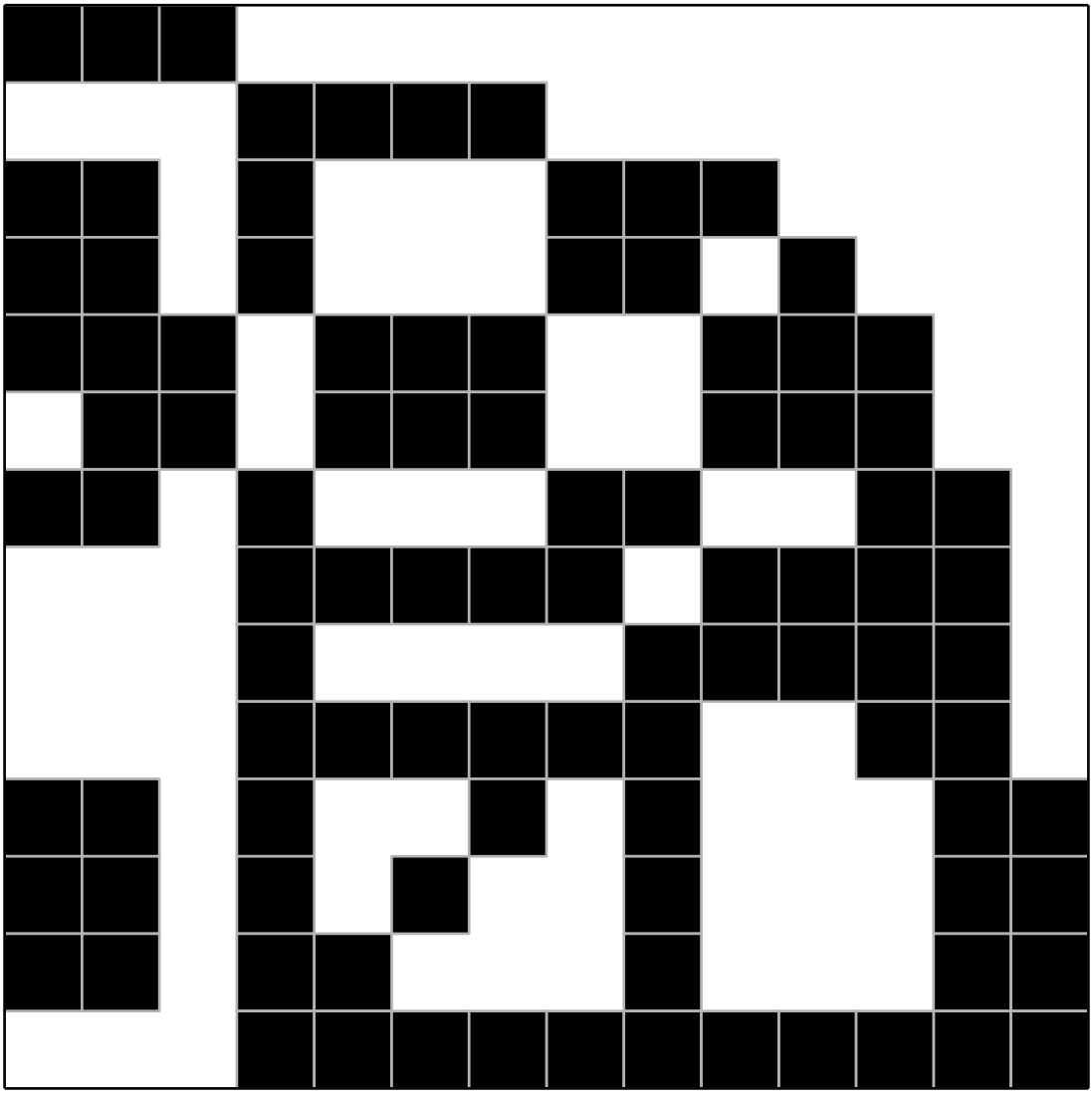
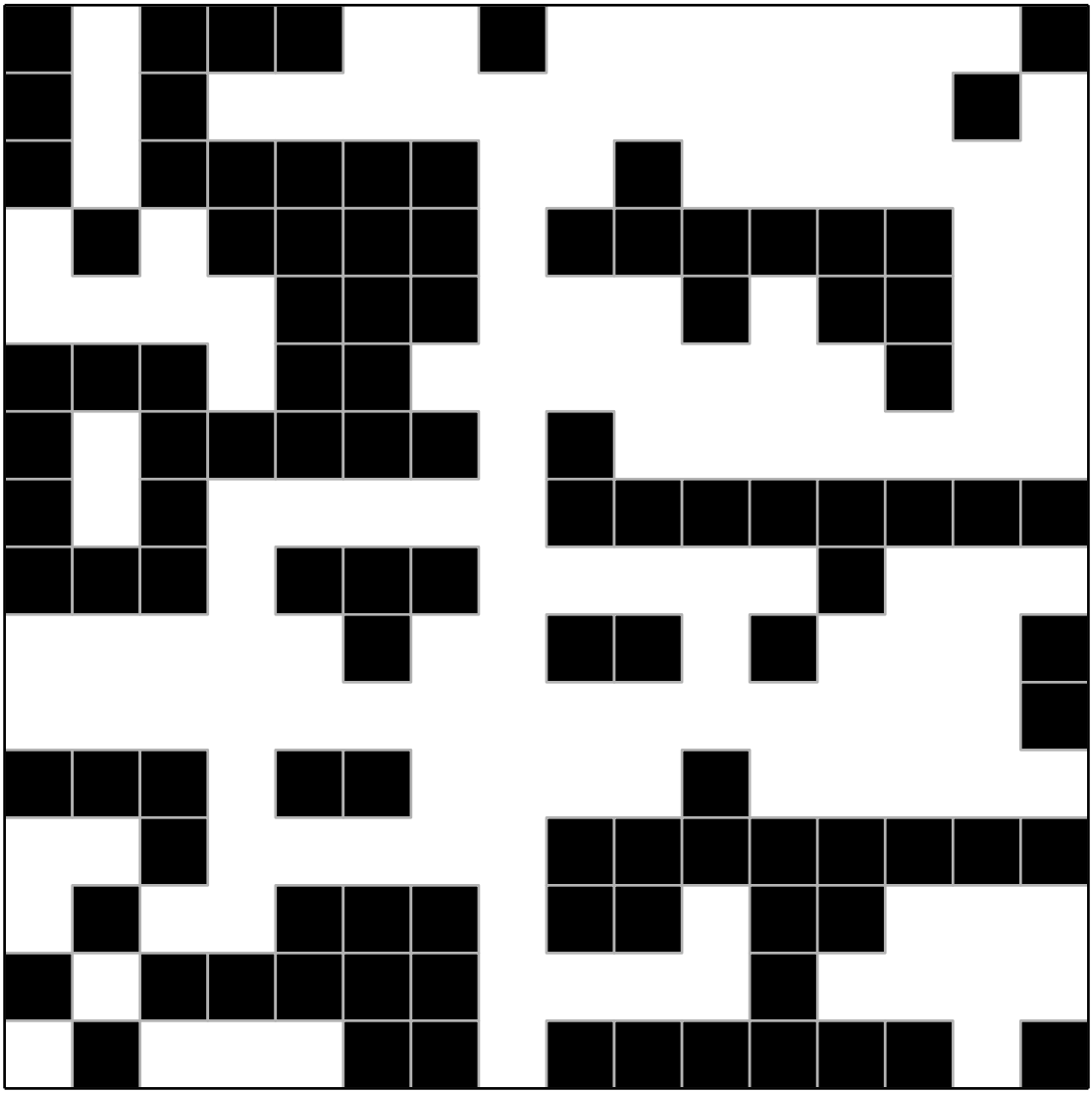
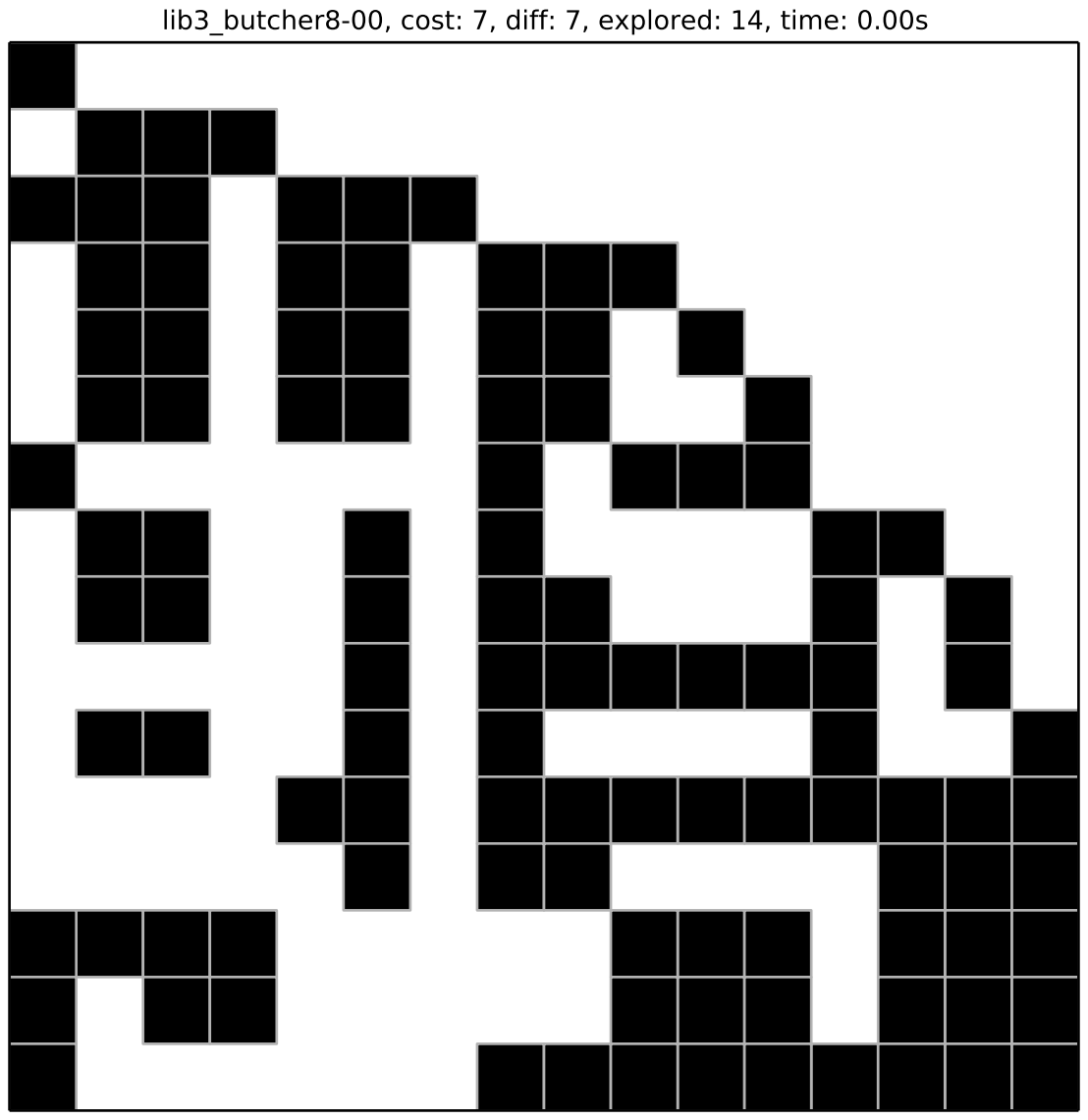
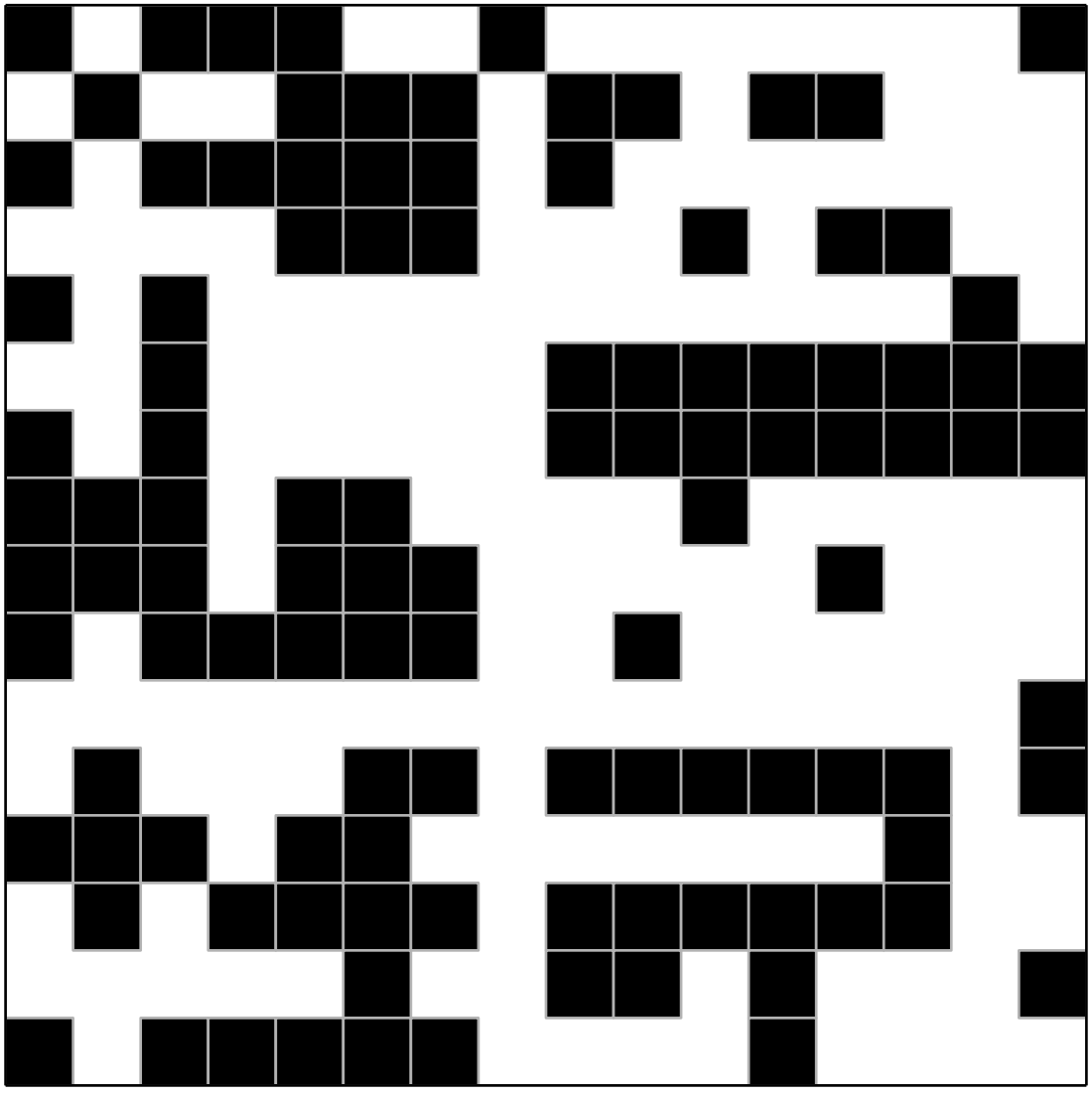


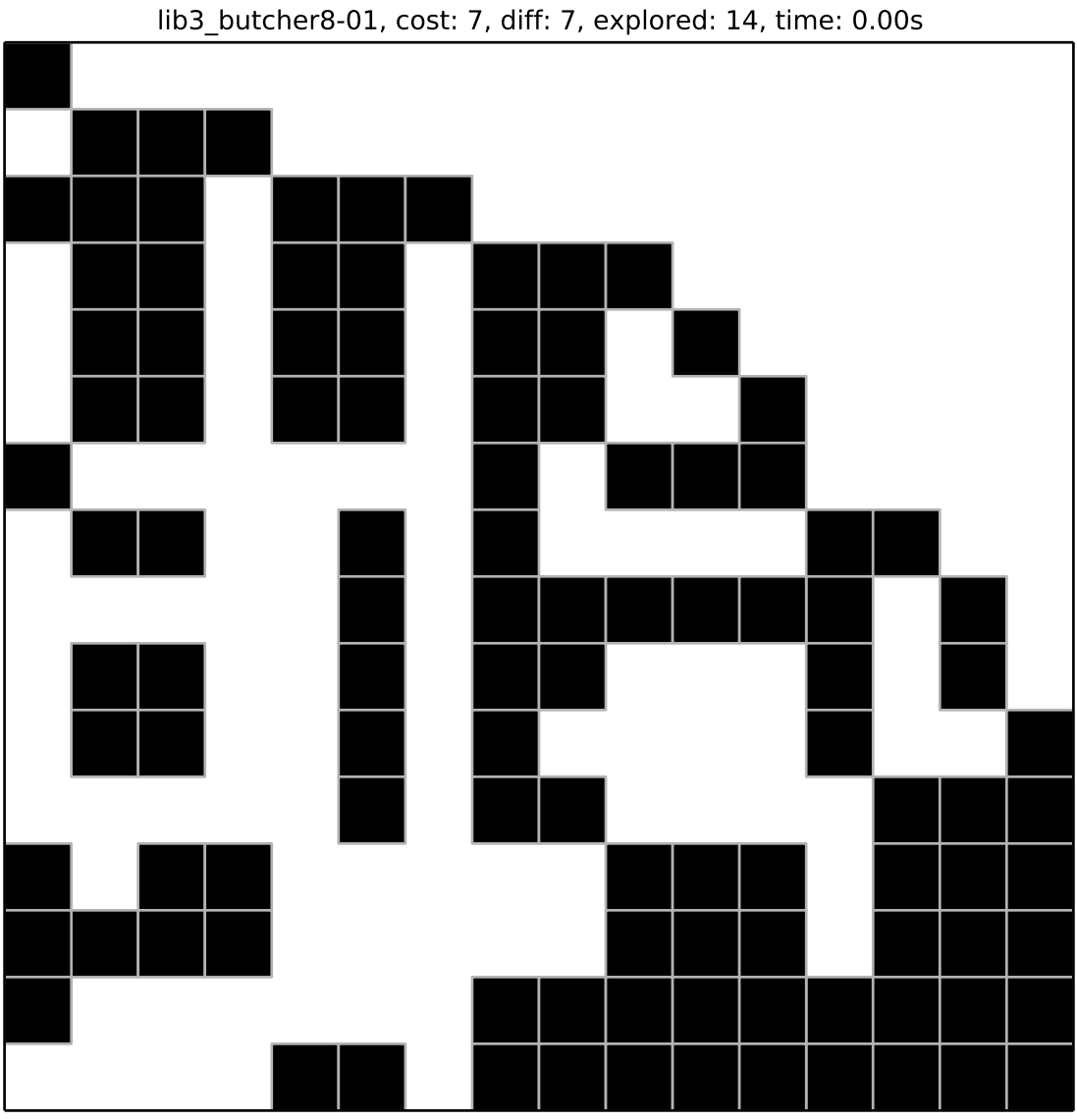
lib3_butcher8-00 16x16 (109) con: 8, var: 8




lib3_butcher8-00, cost: 7, diff: 7, explored: 14, time: 0.00s

lib3_butcher8-01 16x16 (109) con: 8, var: 8

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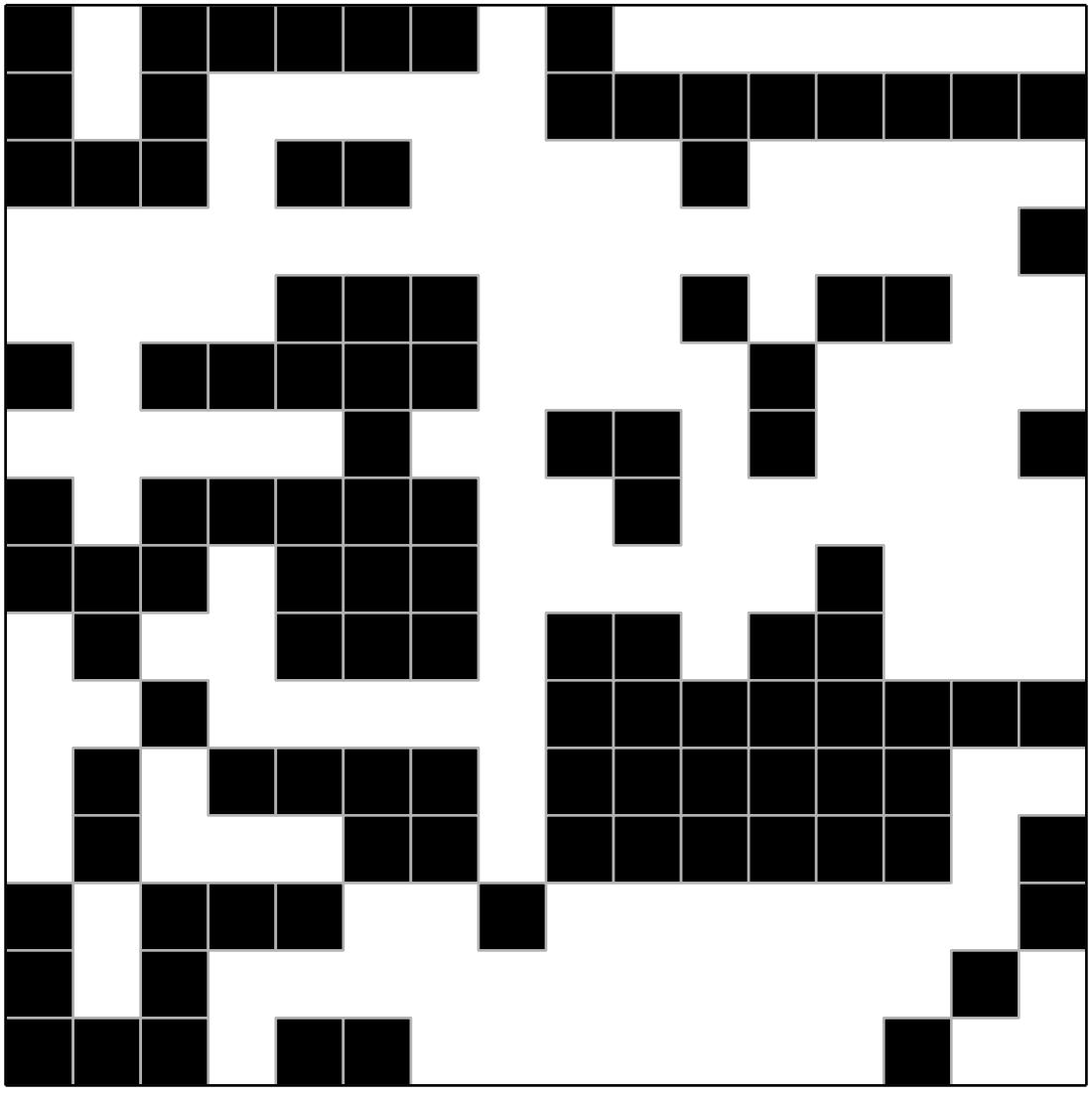
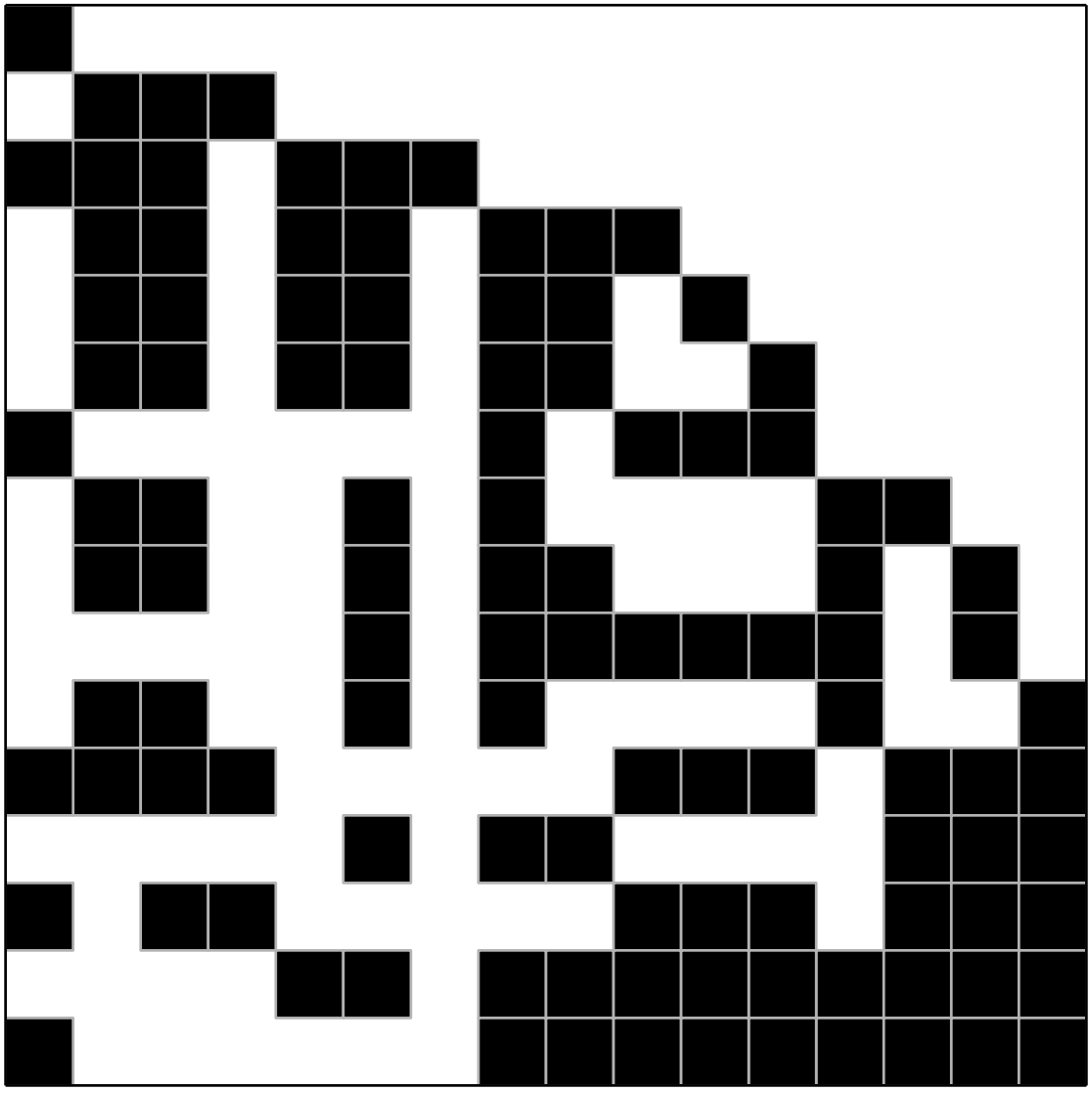
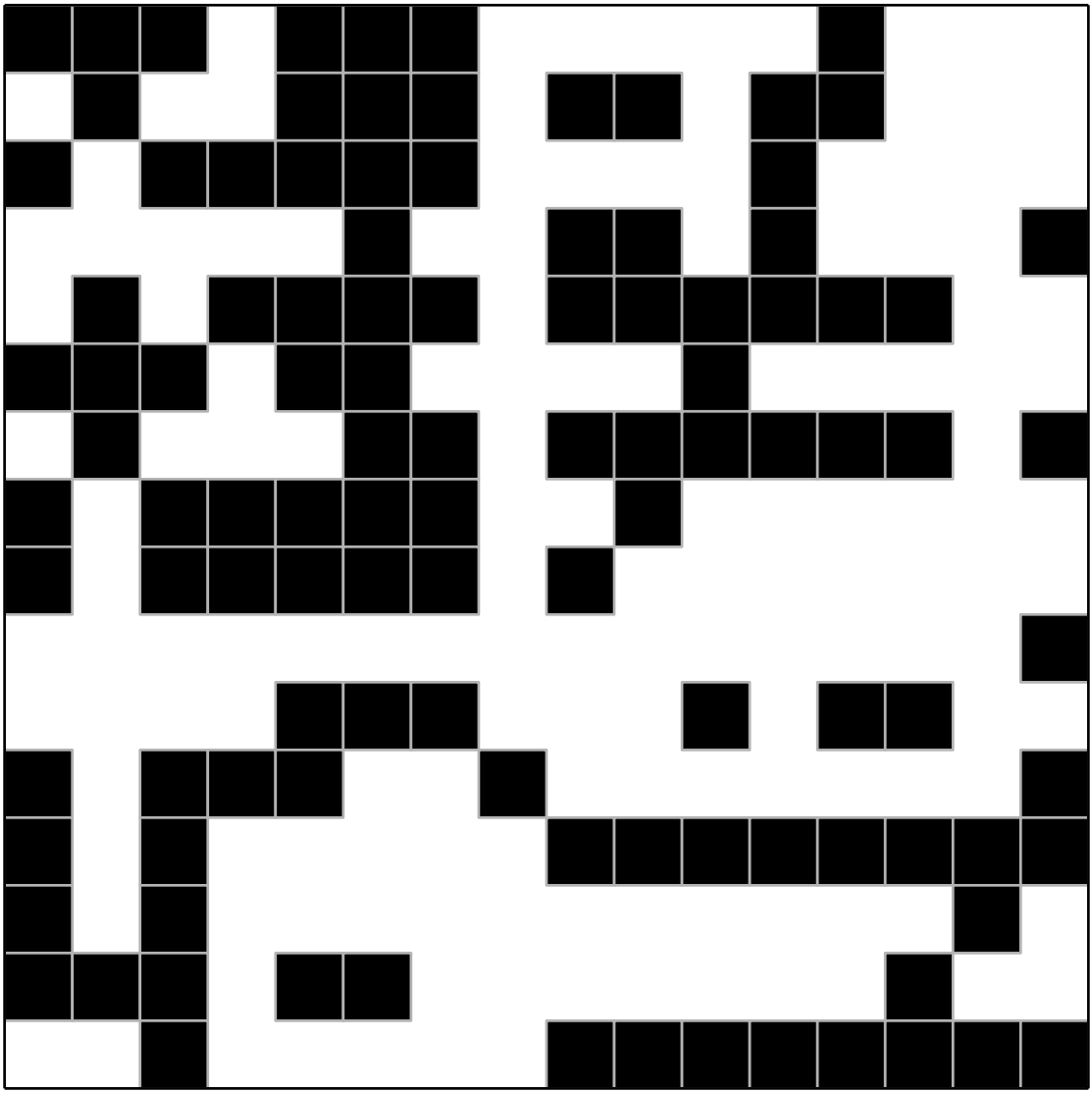
lib3_butcher8-02 16x16 (109) con: 8, var: 8

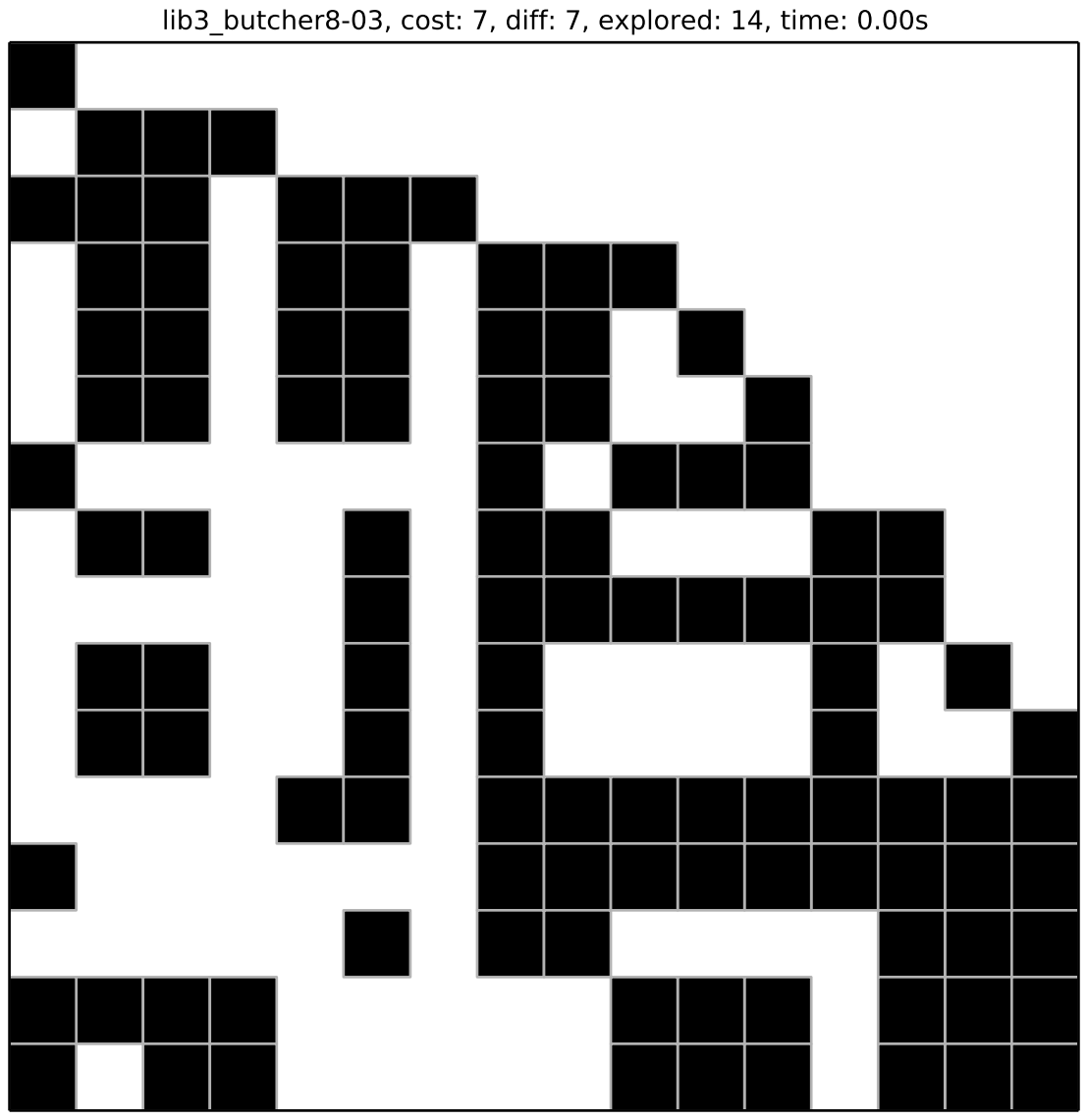


lib3_butcher8-02, cost: 7, diff: 7, explored: 14, time: 0.02s



lib3_butcher8-03 16x16 (109) con: 8, var: 8

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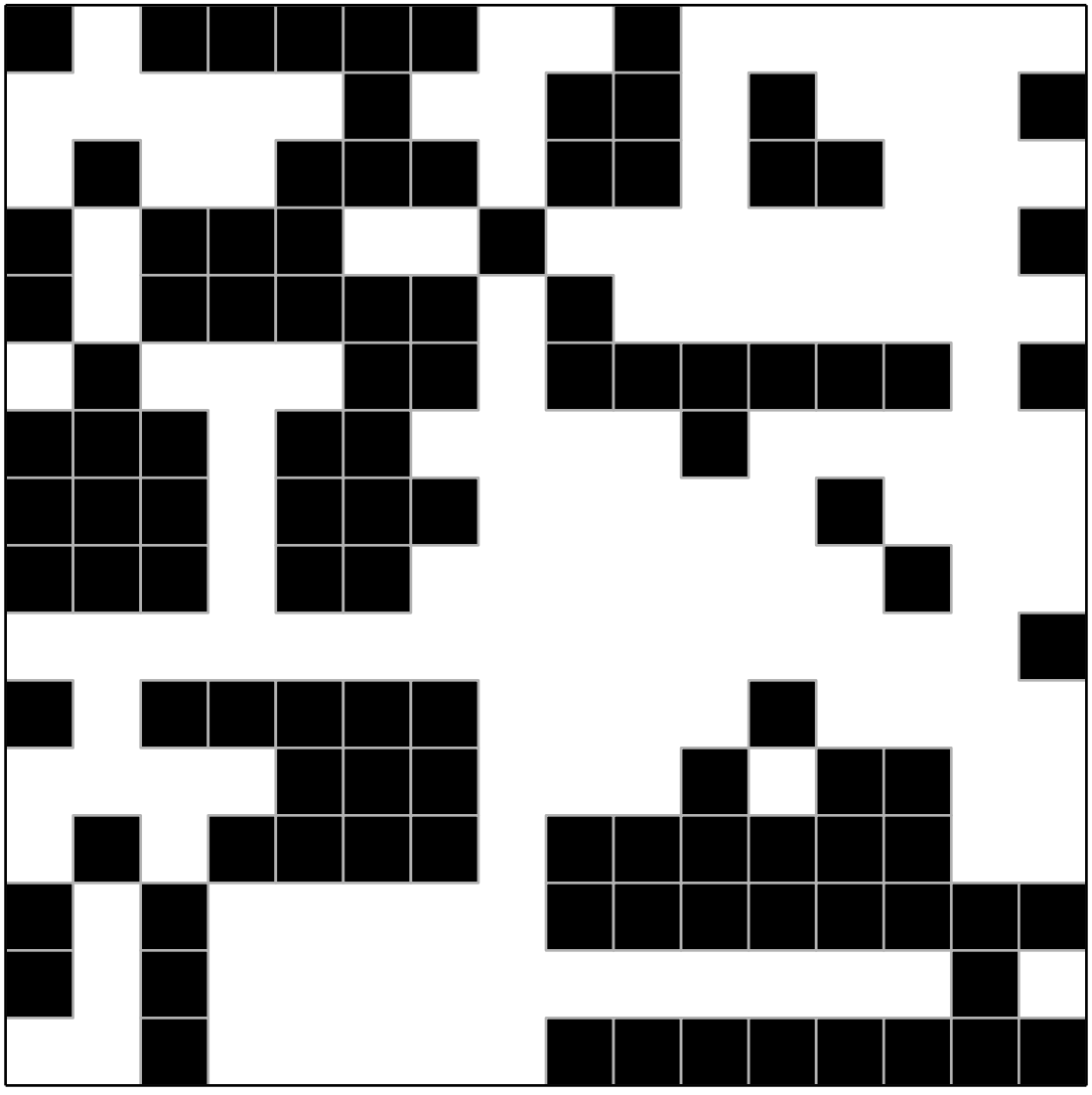
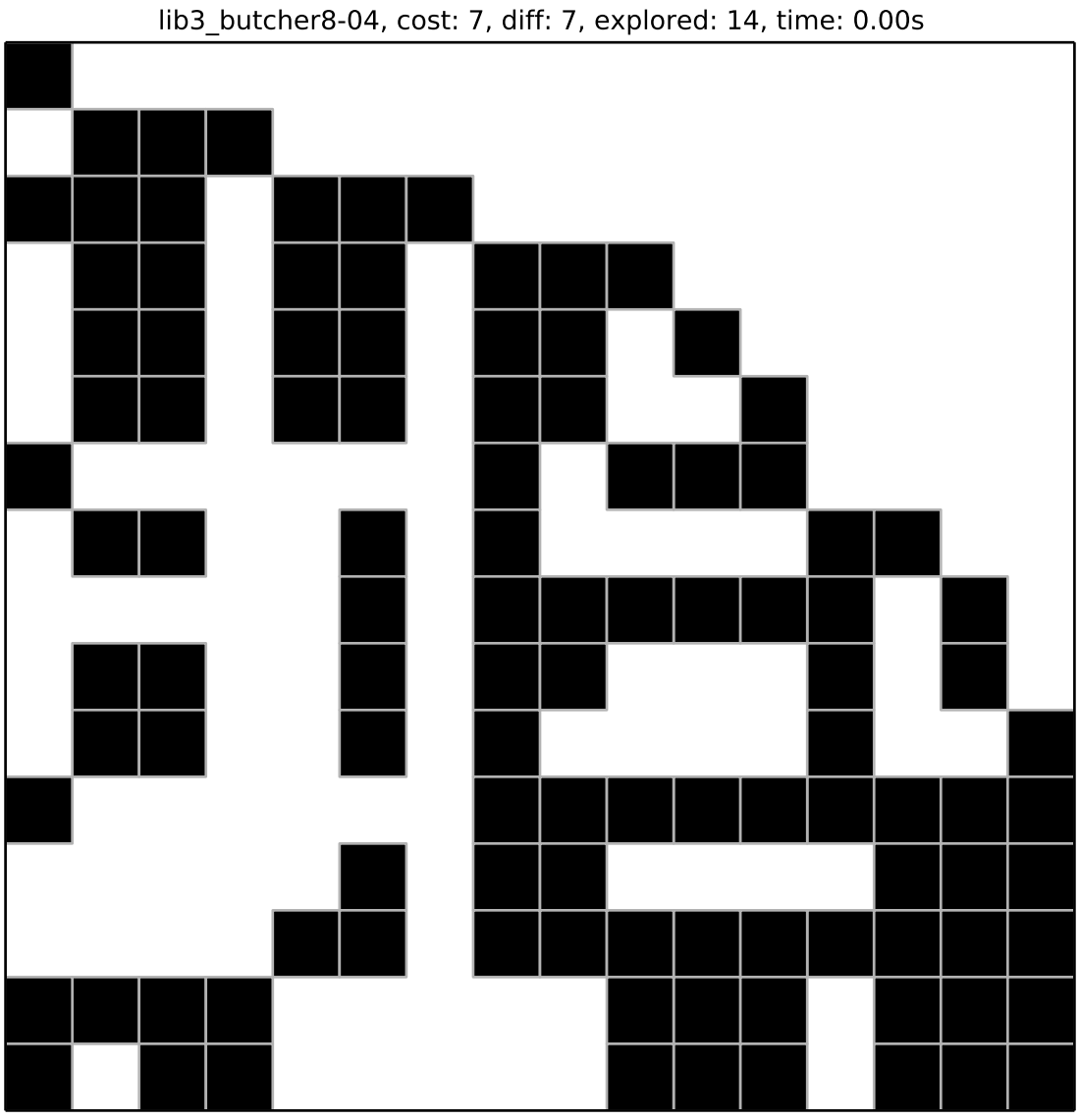
lib3_butcher8-04 16x16 (109) con: 8, var: 8

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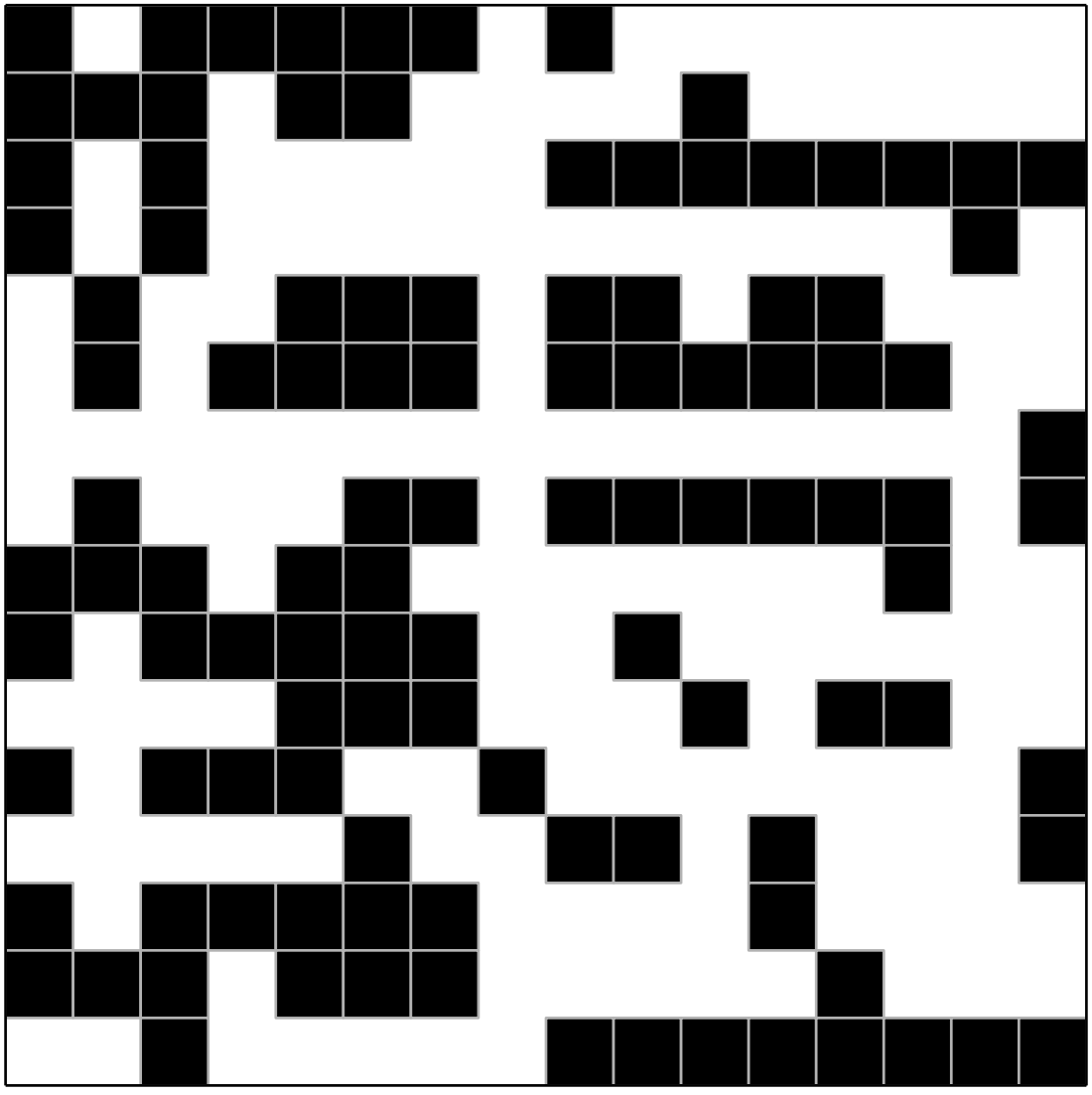
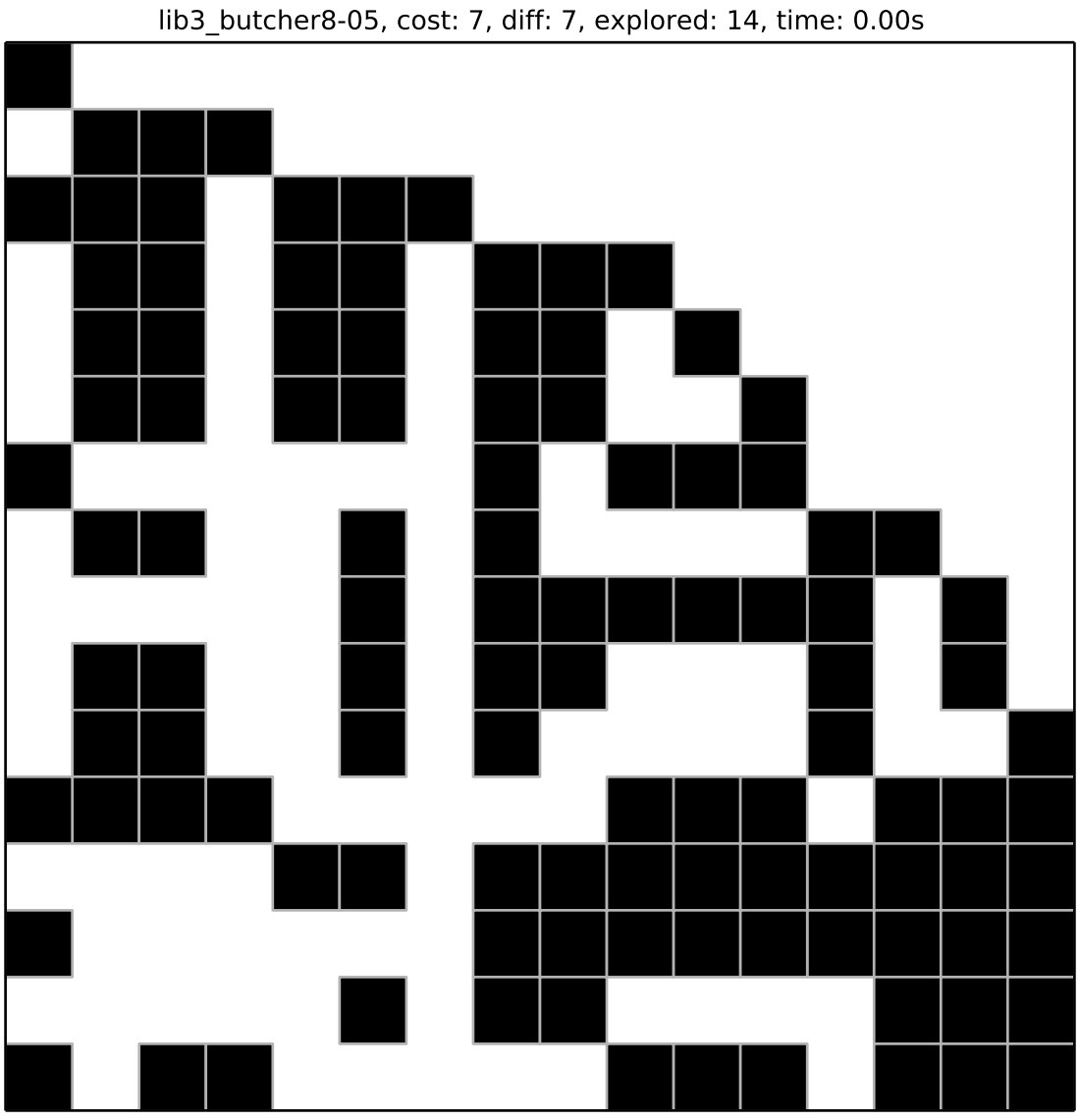
lib3_butcher8-05 16x16 (109) con: 8, var: 8

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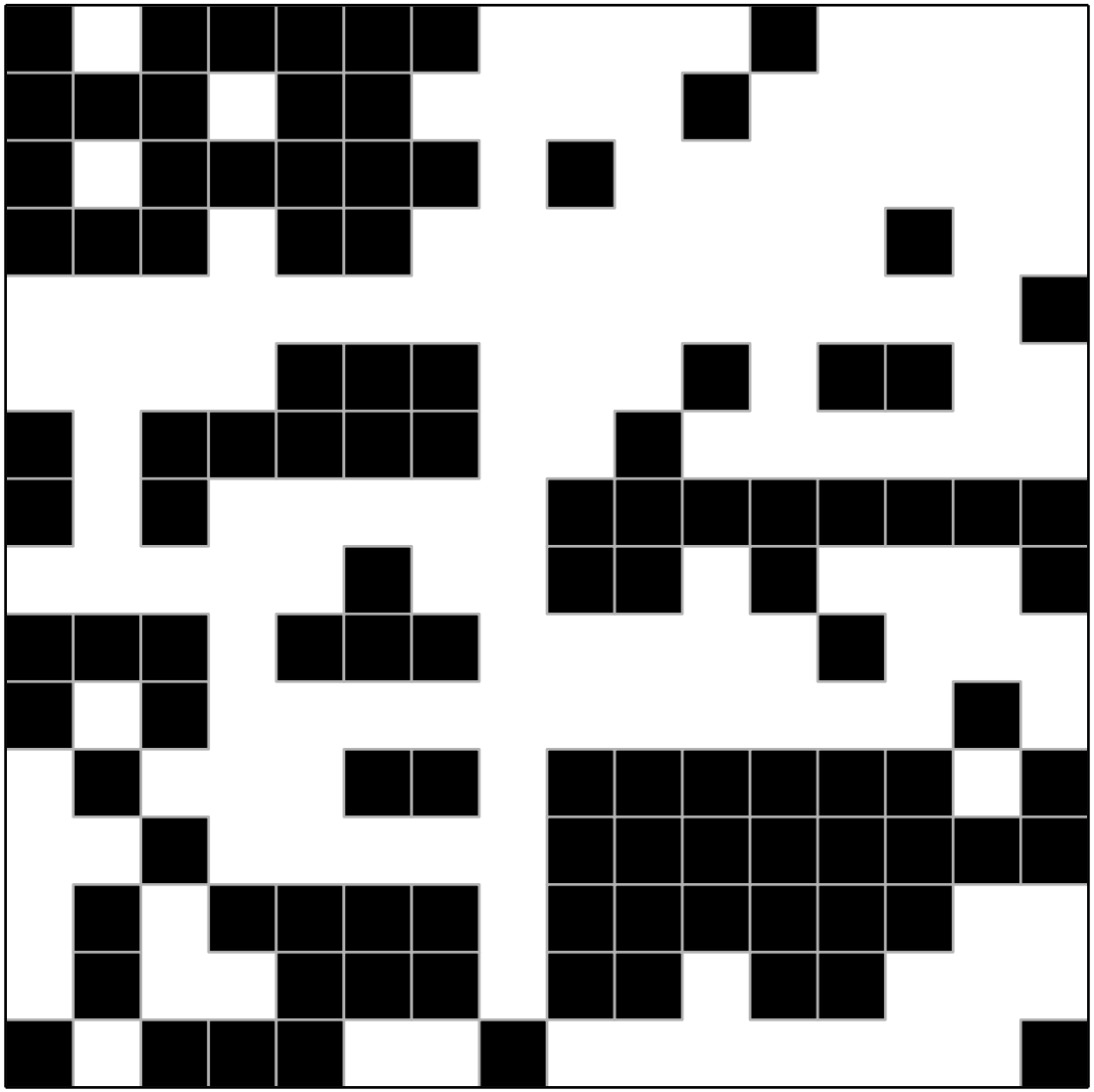
lib3_butcher8-06 16x16 (109) con: 8, var: 8



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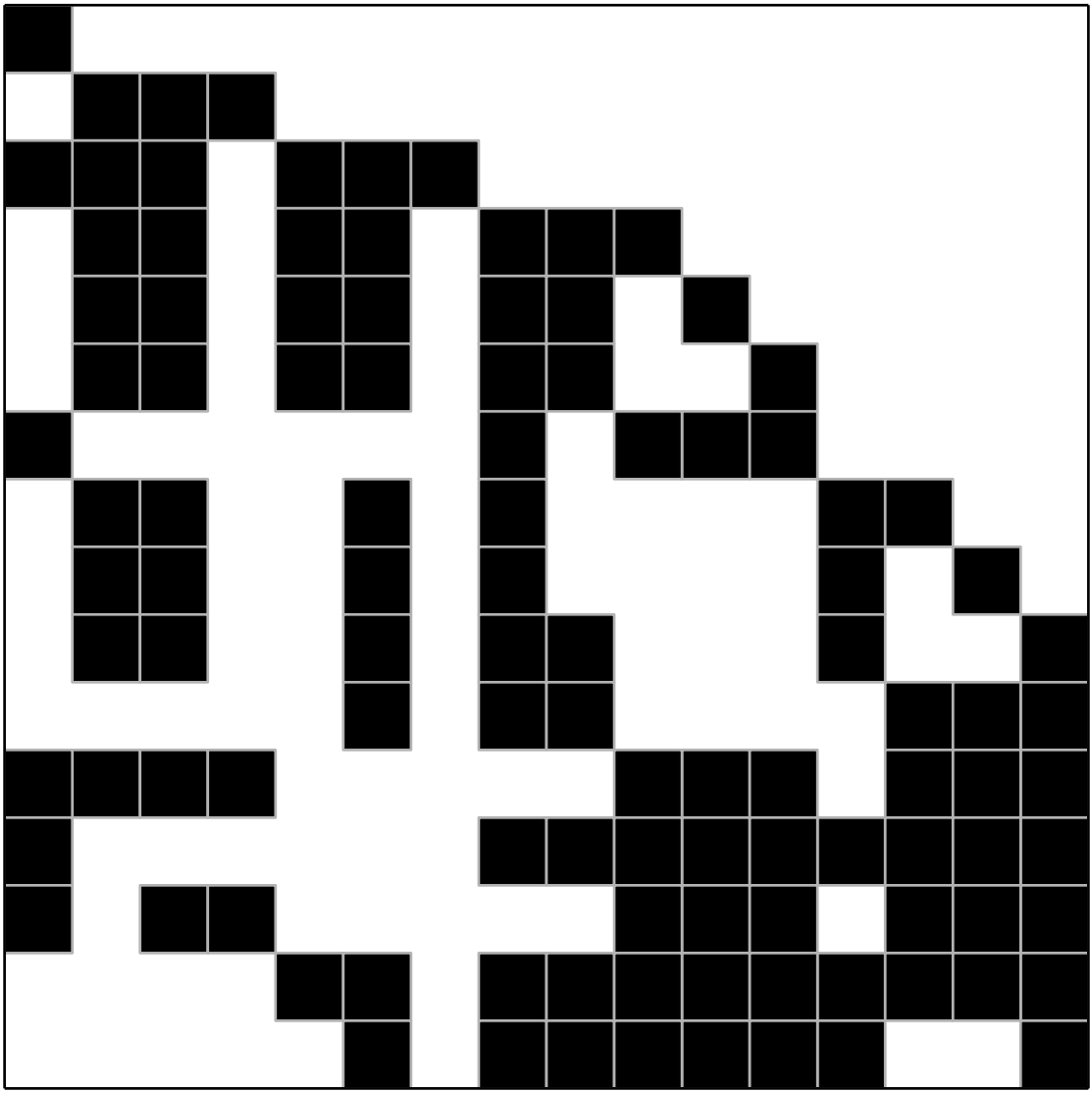
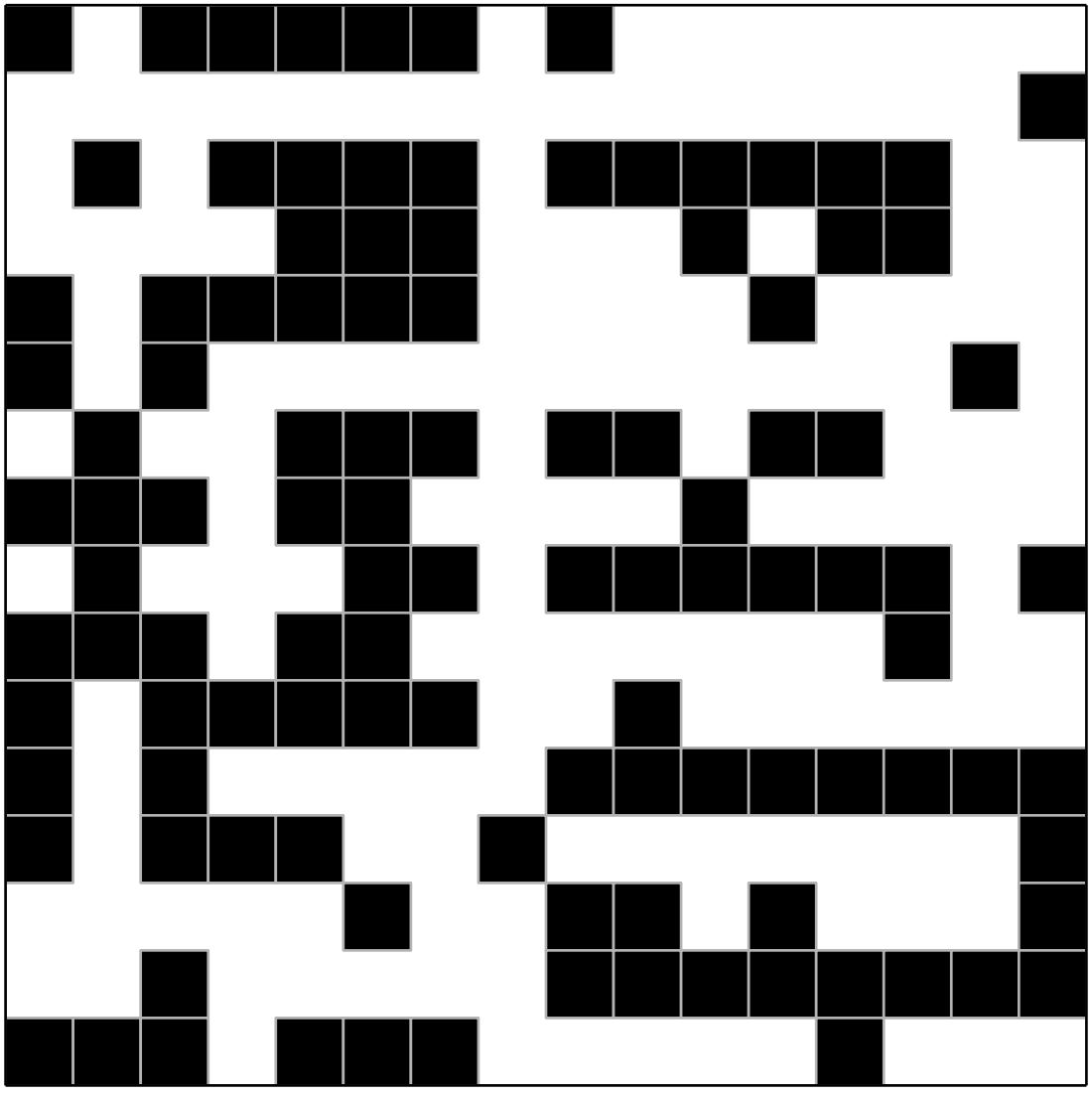
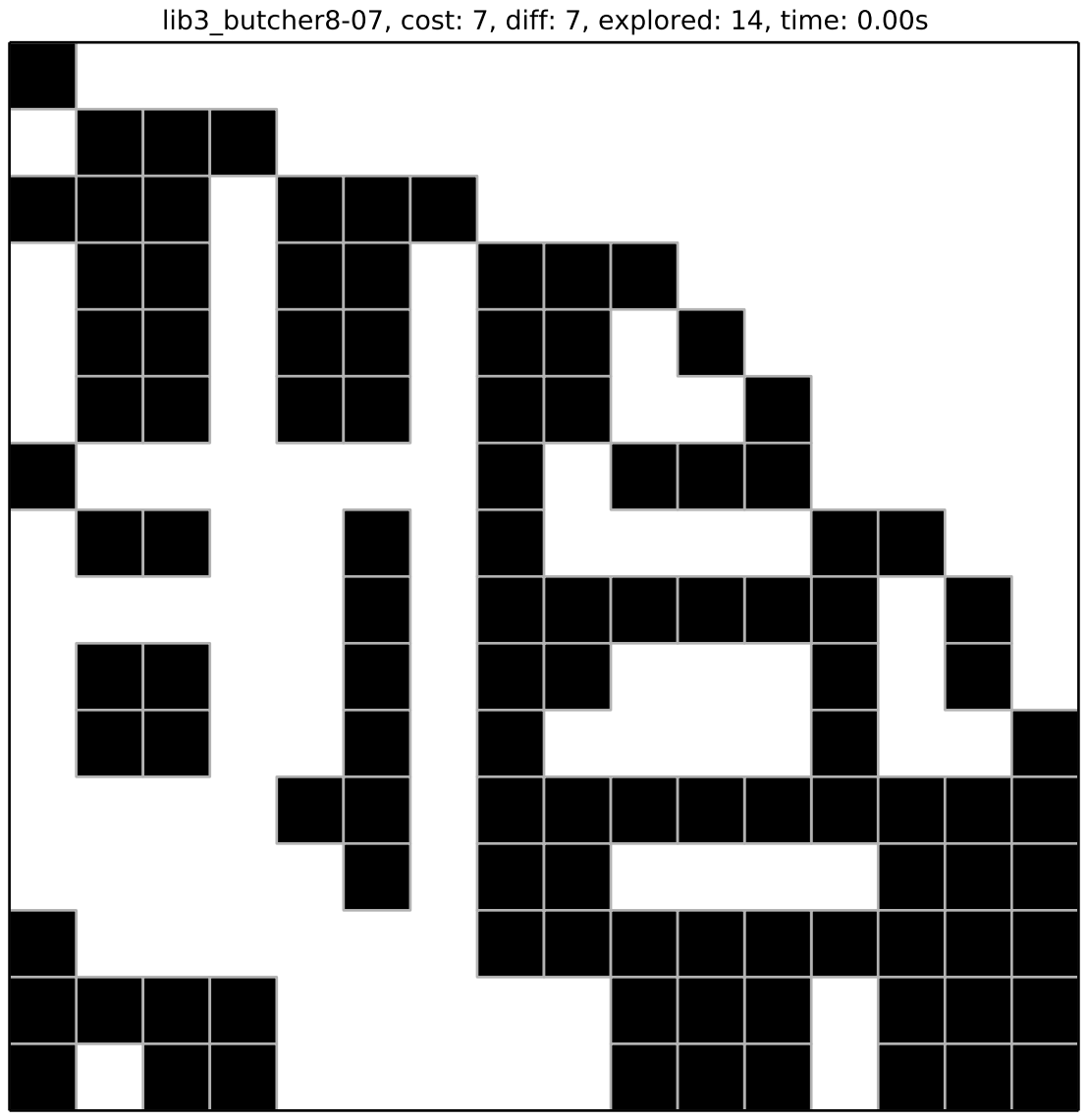


lib3_butcher8-07 16x16 (109) con: 8, var: 8

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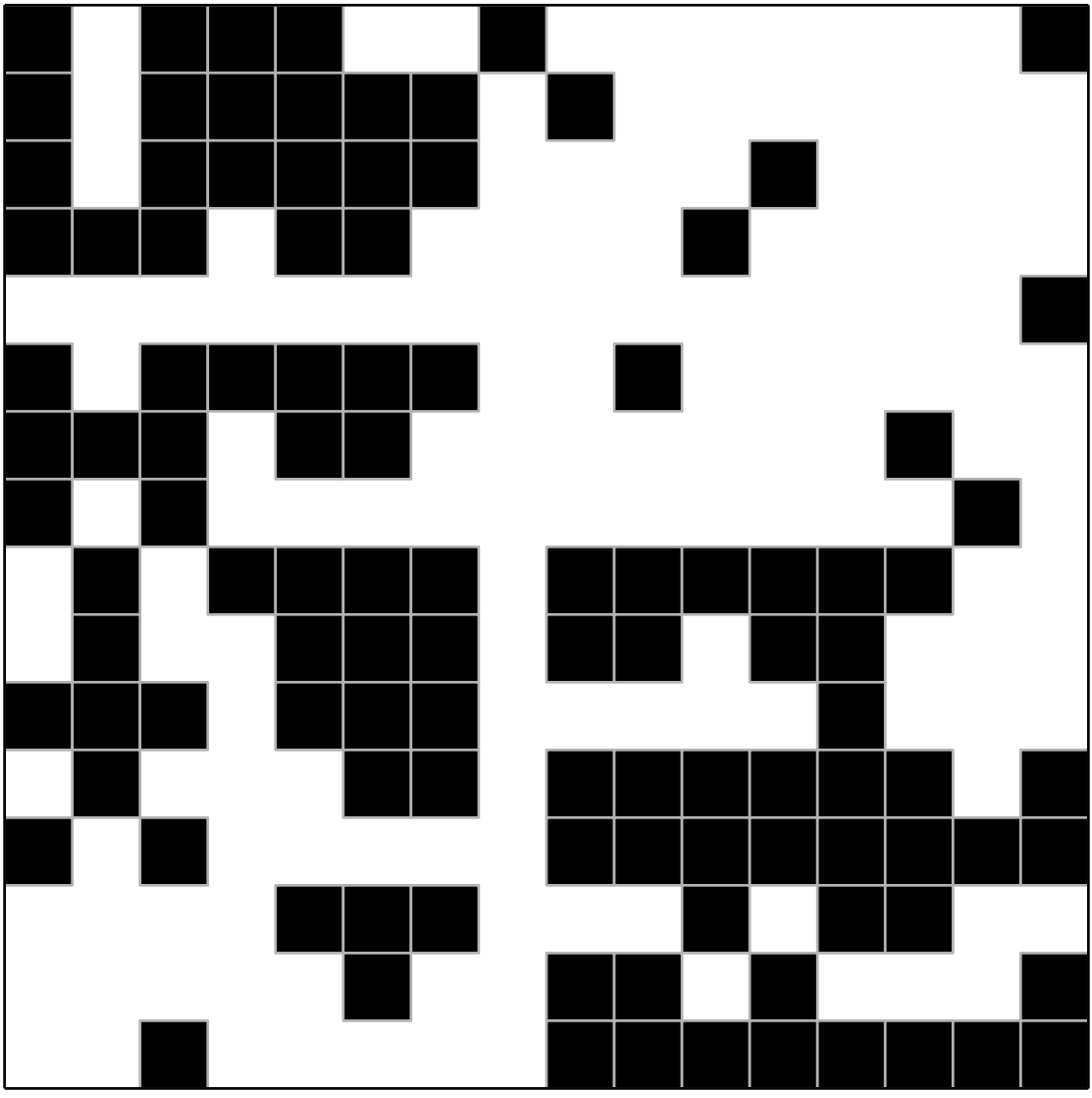
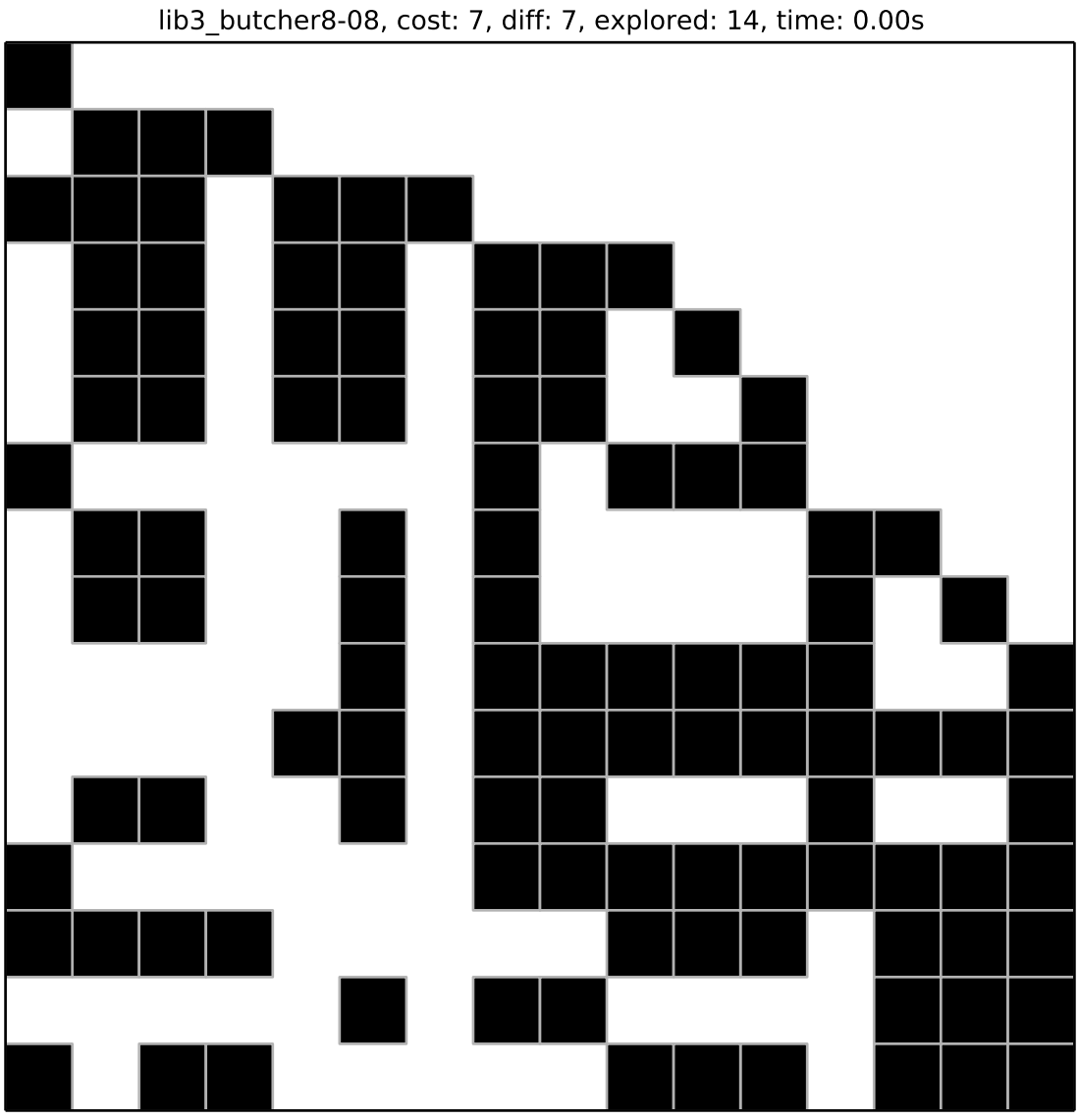
lib3_butcher8-08 16x16 (109) con: 8, var: 8

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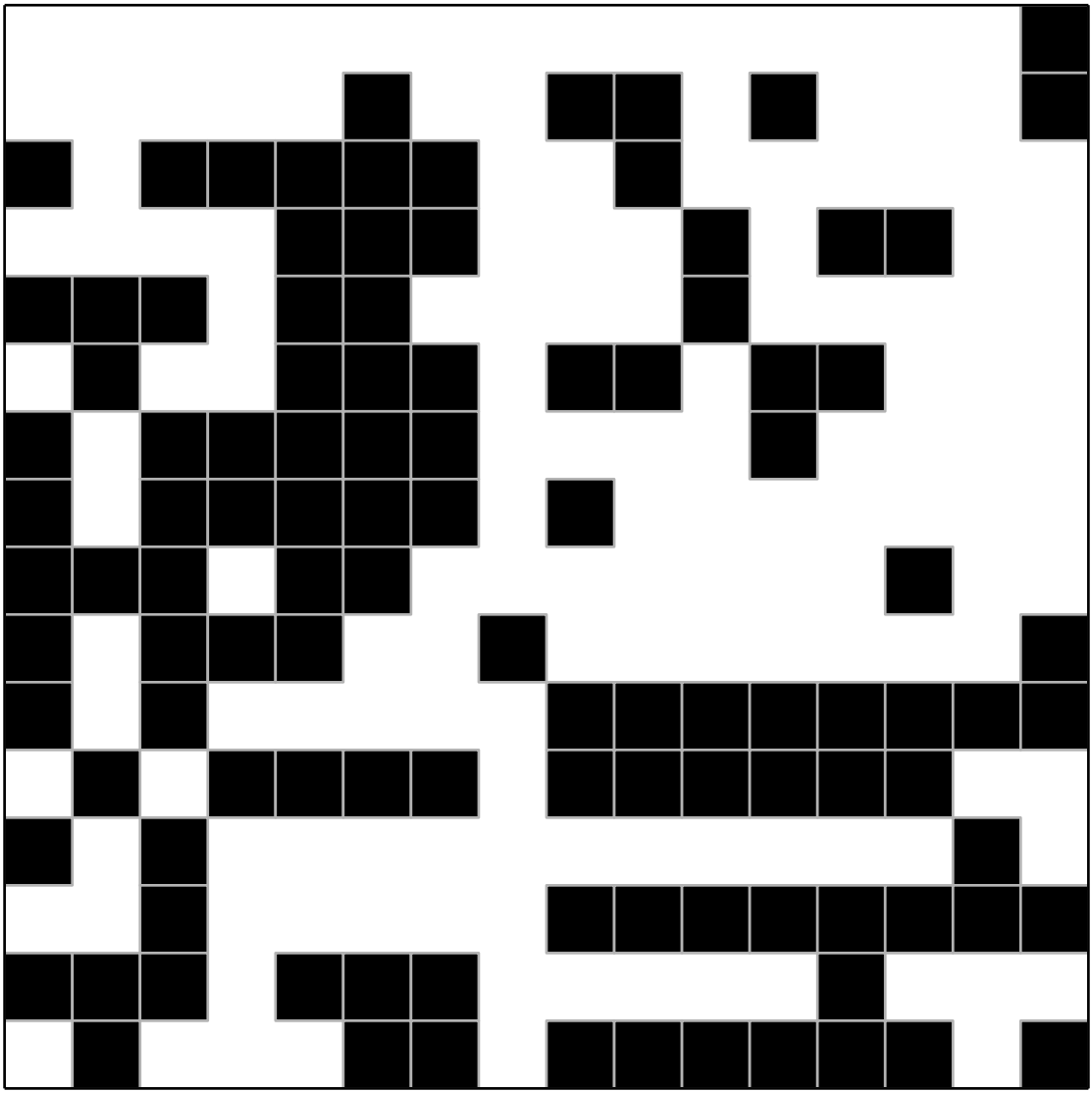
lib3_butcher8-09 16x16 (109) con: 8, var: 8



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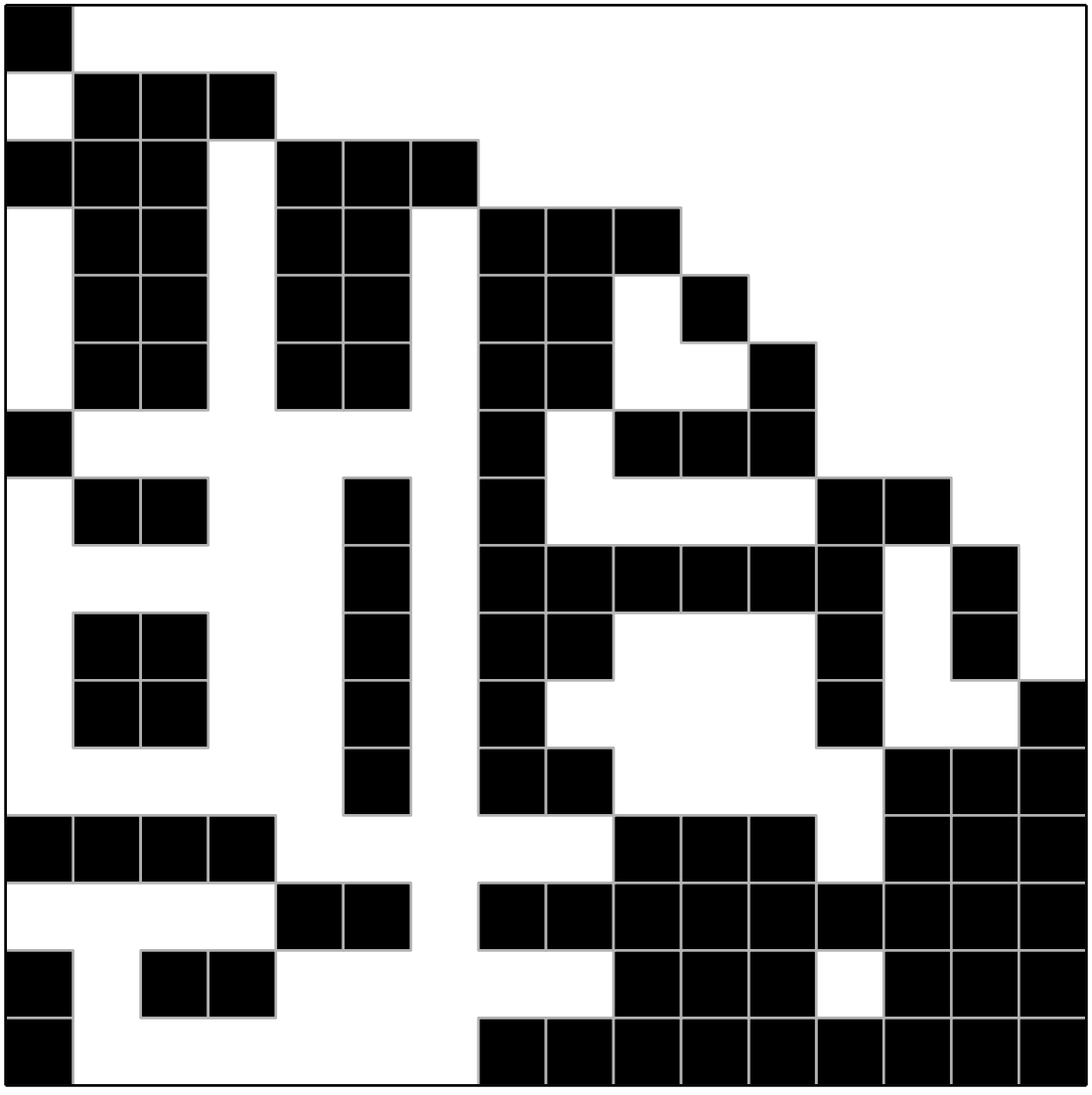
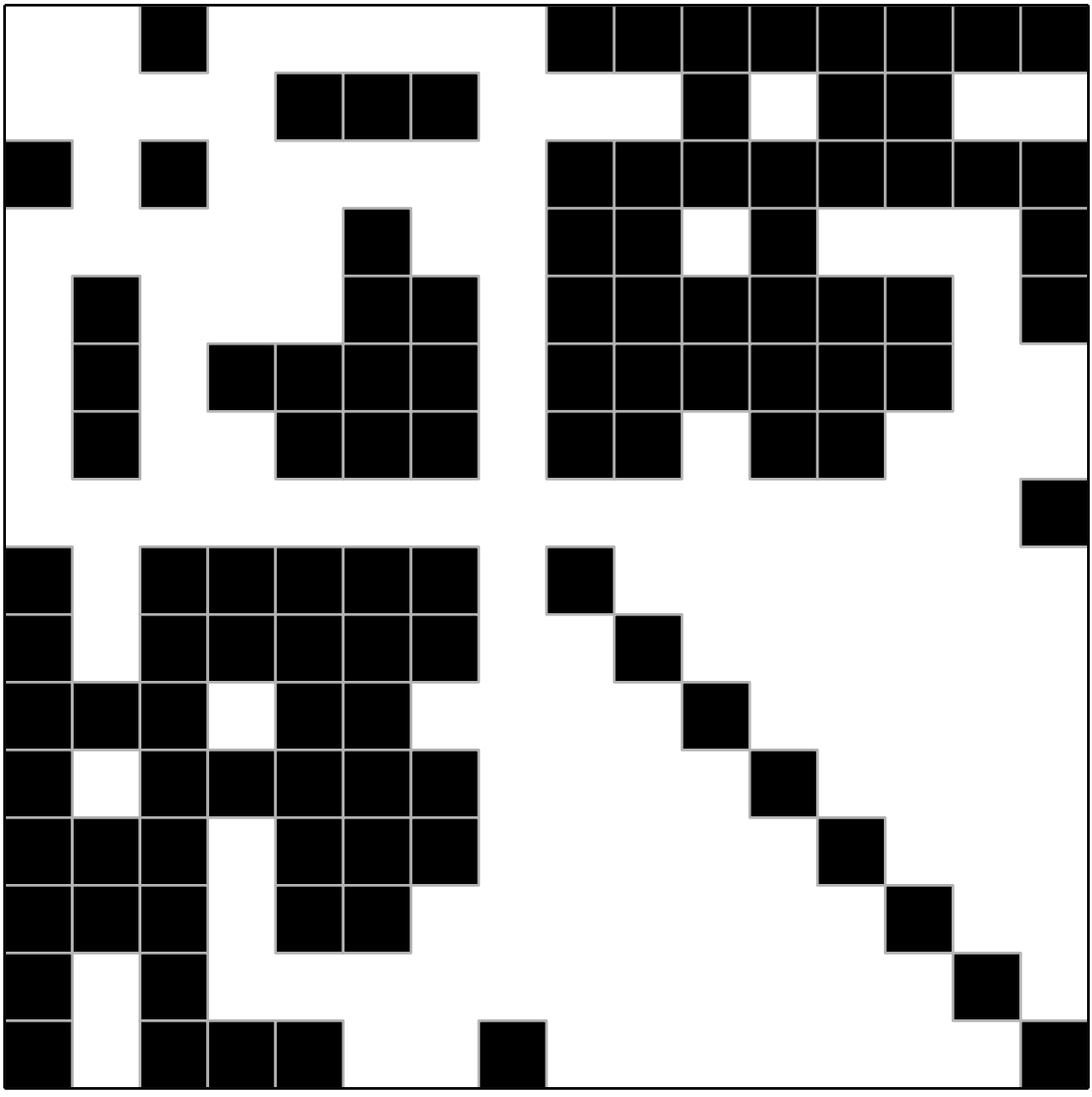


lib3_butcher8-IN 16x16 (109) con: 8, var: 8



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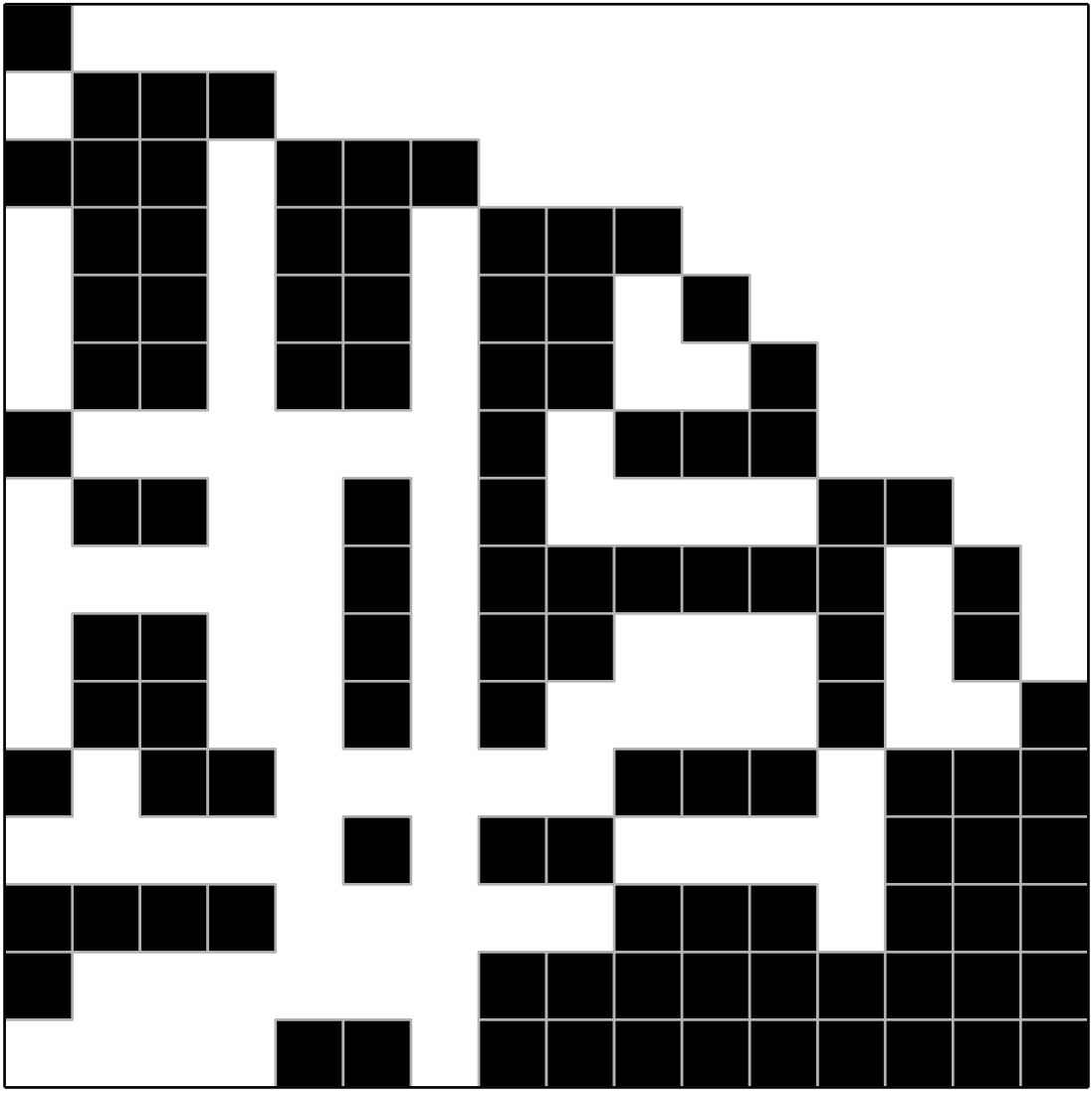
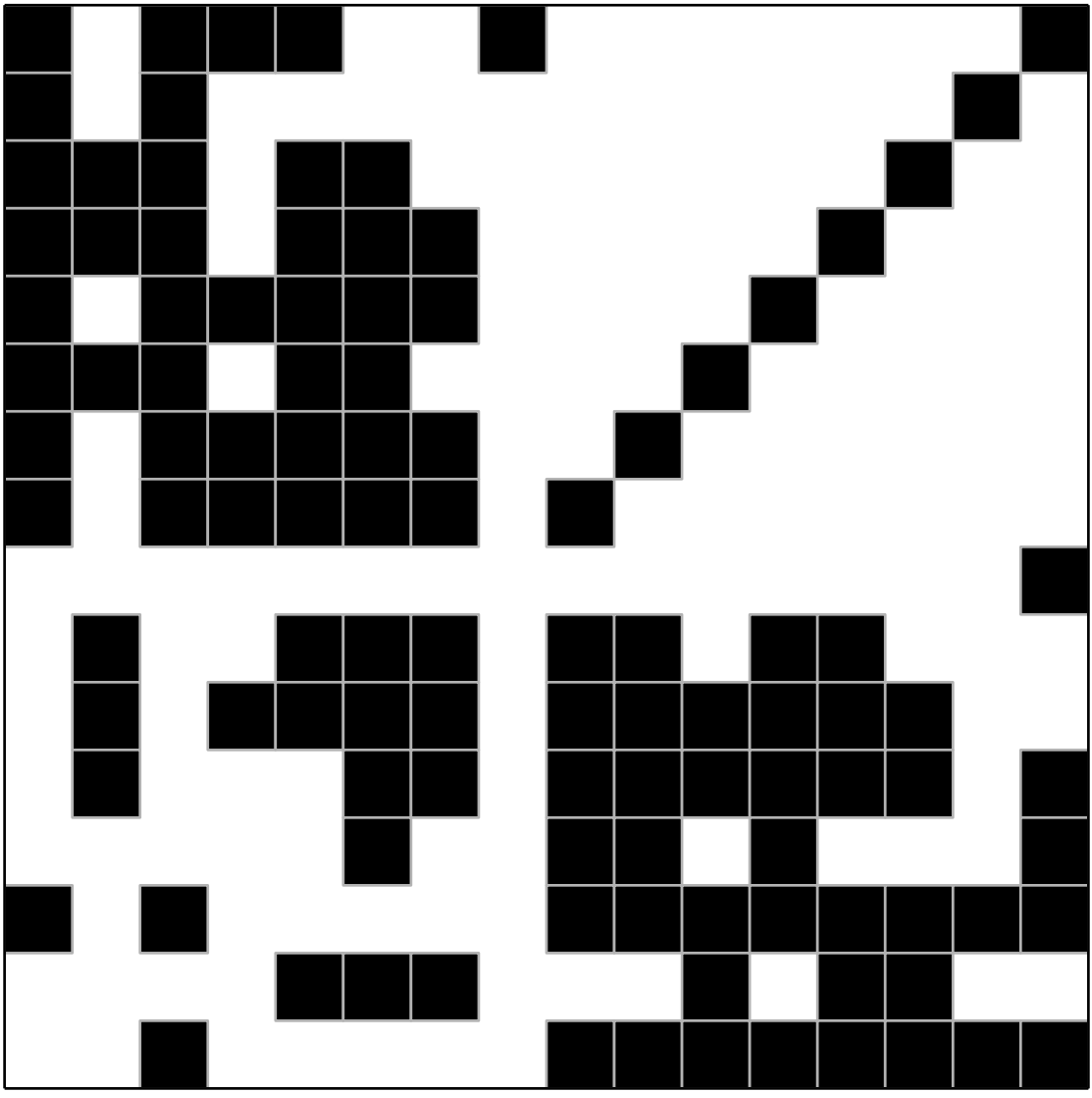
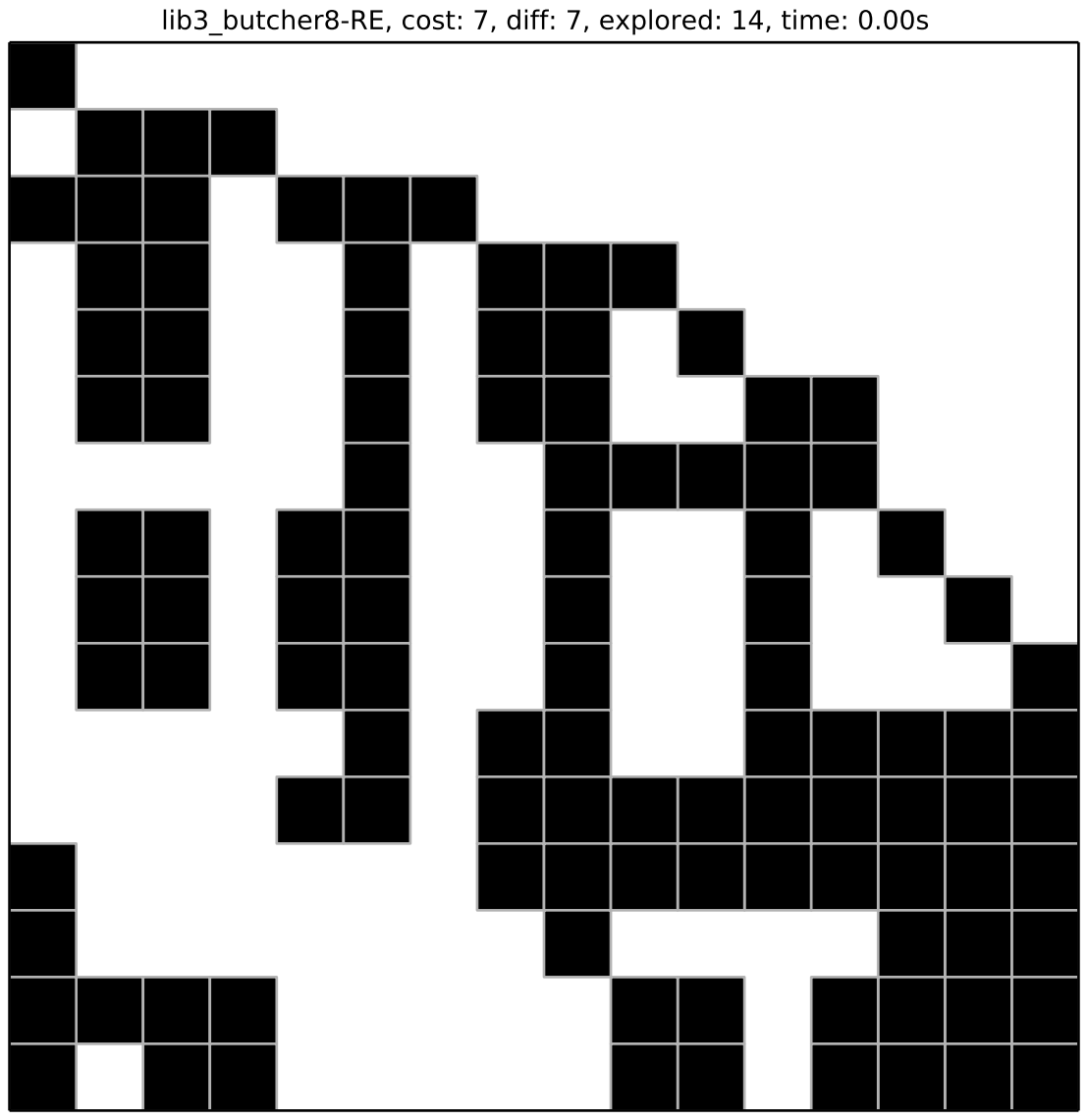
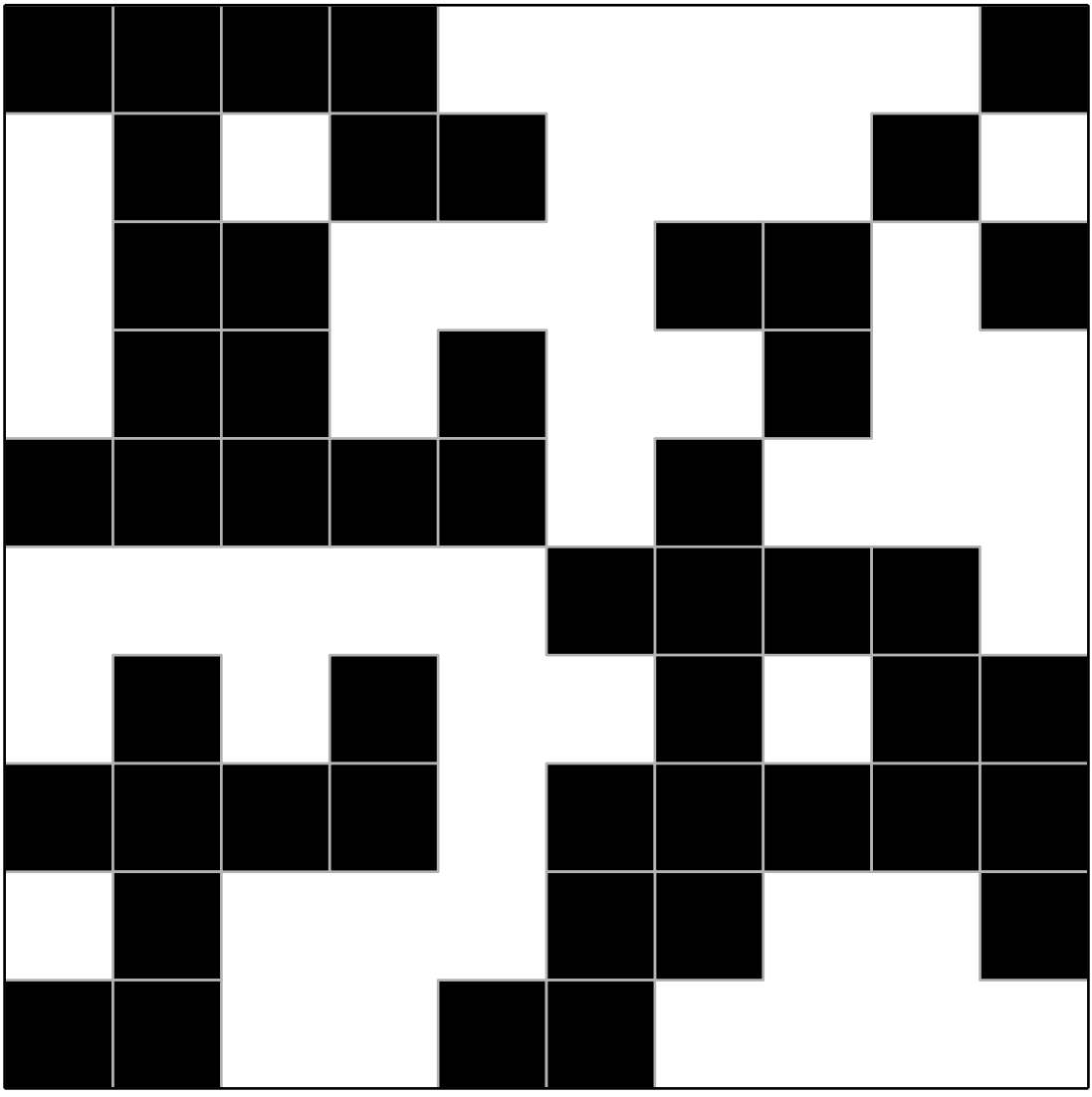


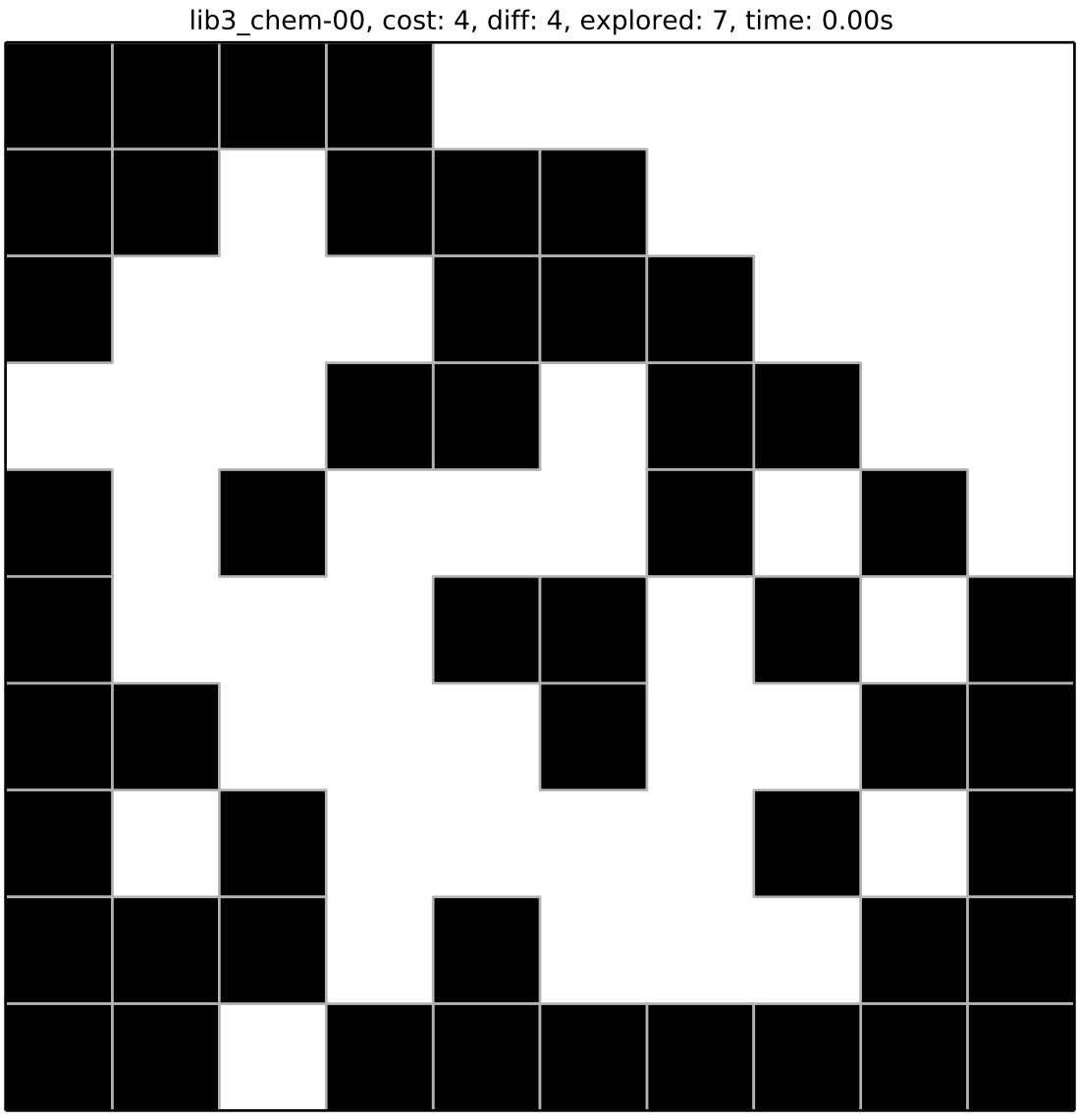
lib3_butcher8-RE 16x16 (109) con: 8, var: 8

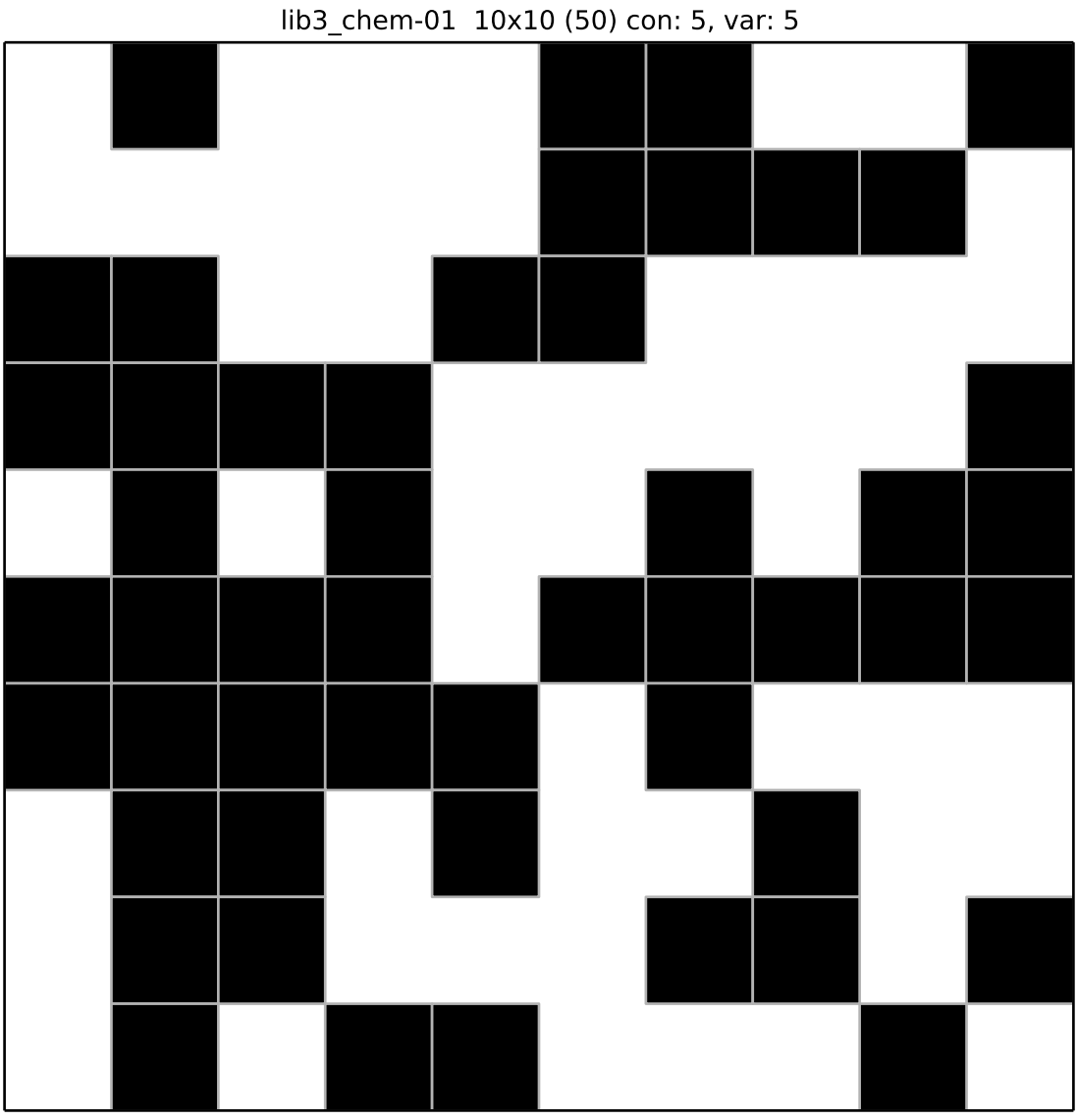



lib3_butcher8-RE, cost: 7, diff: 7, explored: 14, time: 0.00s

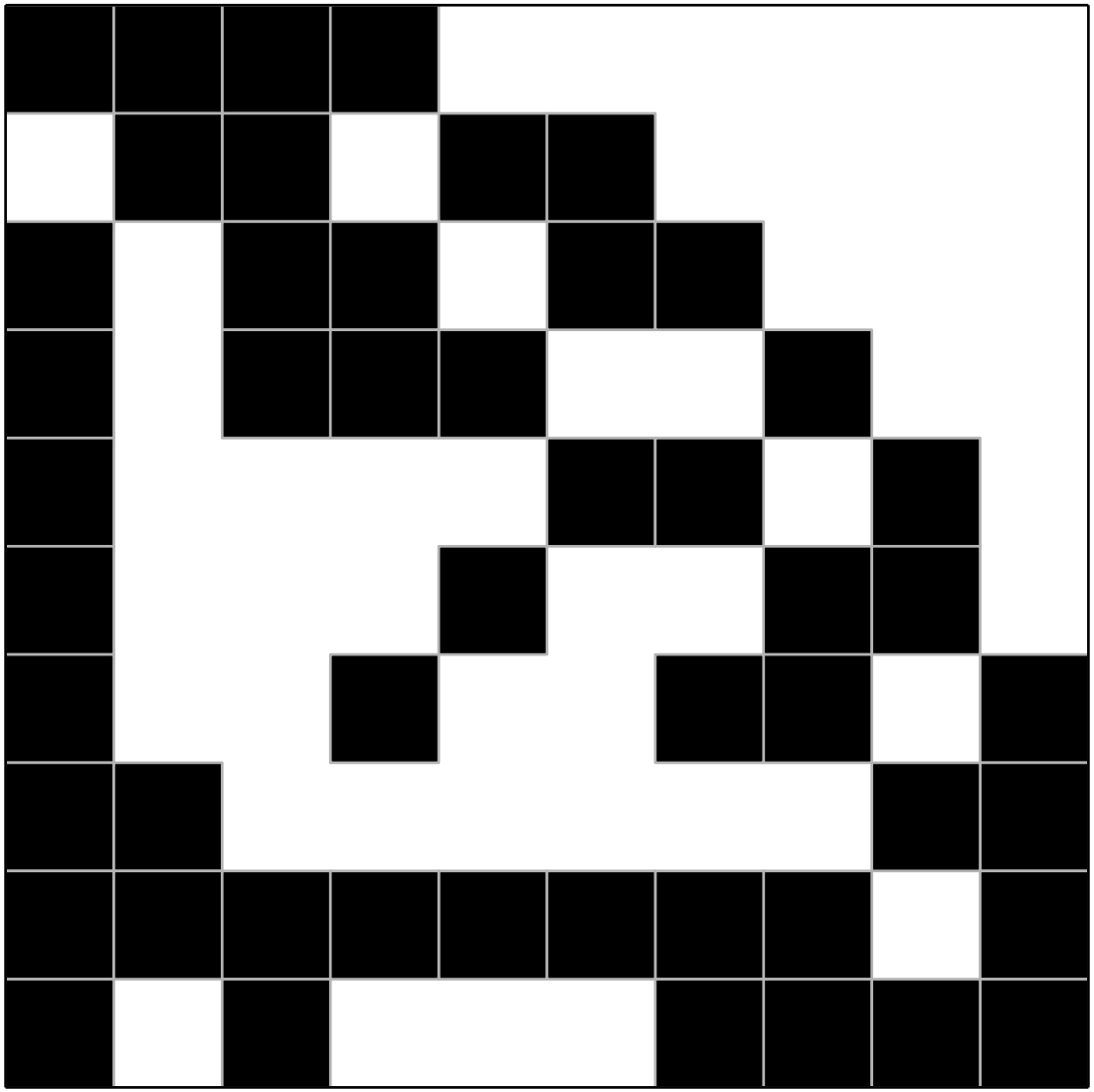
lib3_chem-00 10x10 (50) con: 5, var: 5



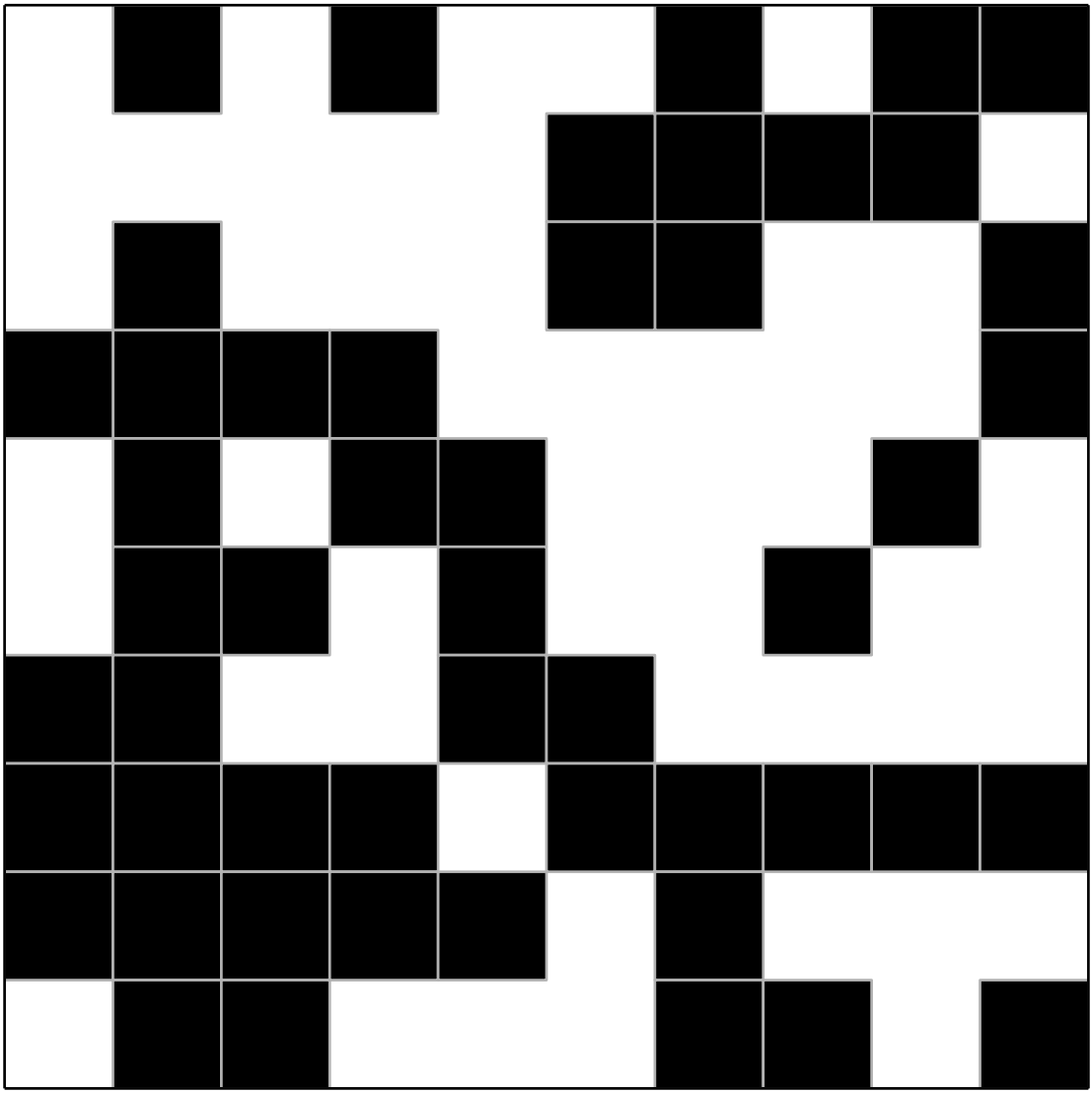

lib3_chem-00, cost: 4, diff: 4, explored: 7, time: 0.00s


lib3_chem-01 10x10 (50) con: 5, var: 5

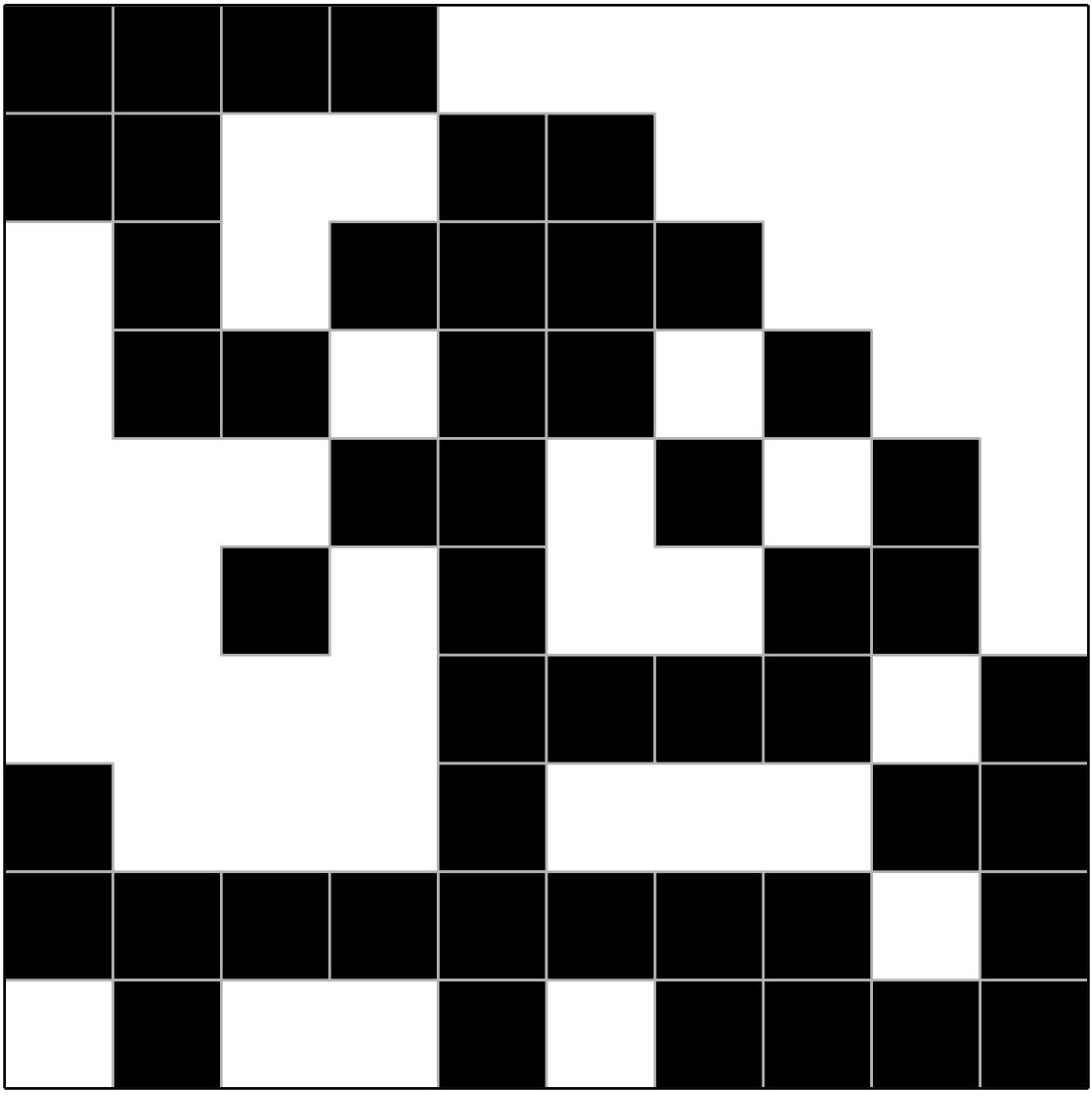
lib3_chem-01, cost: 4, diff: 4, explored: 6, time: 0.00s



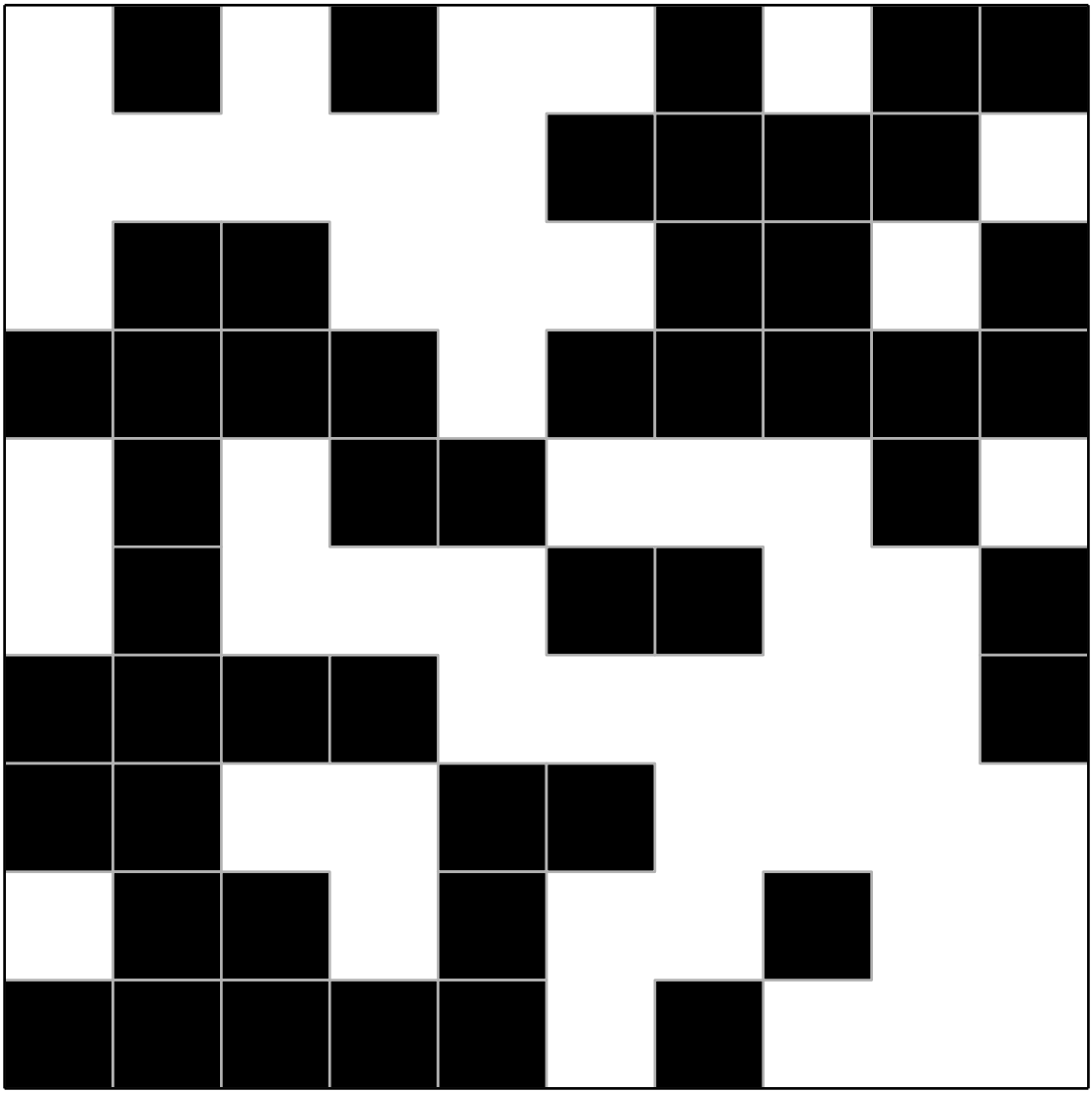
lib3_chem-02 10x10 (50) con: 5, var: 5



lib3_chem-02, cost: 4, diff: 4, explored: 6, time: 0.00s



lib3_chem-03 10x10 (50) con: 5, var: 5



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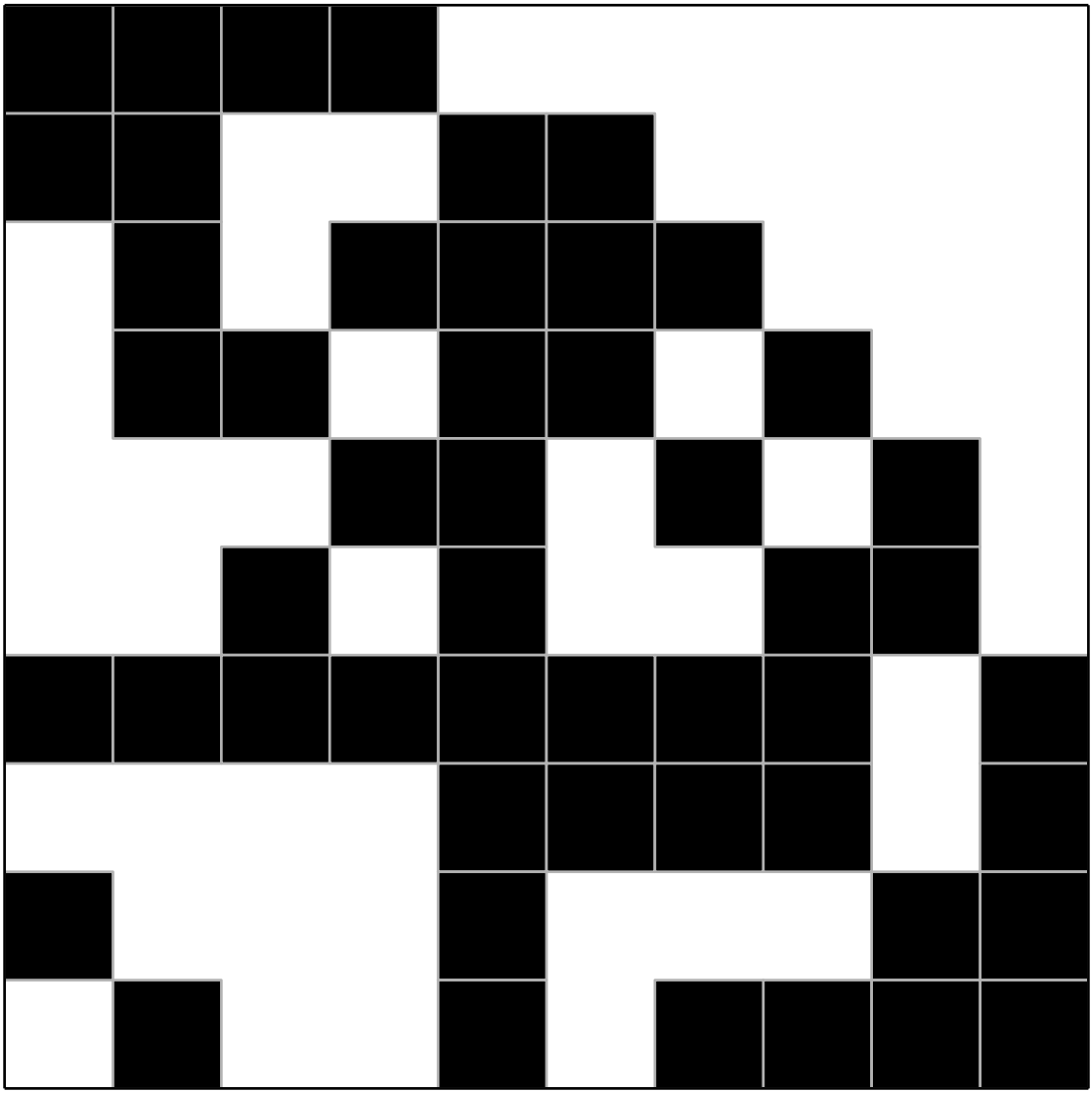
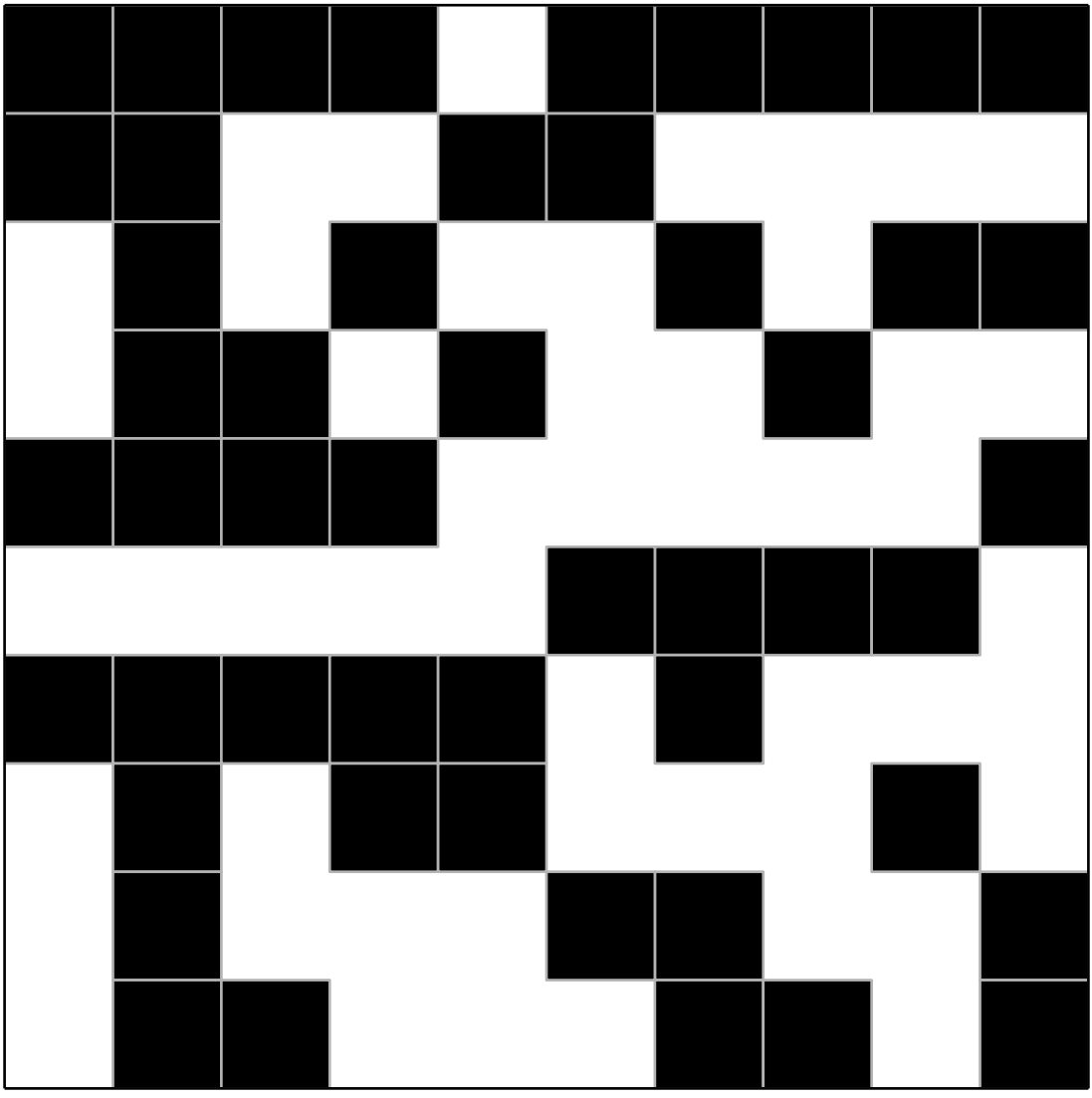


lib3_chem-04 10x10 (50) con: 5, var: 5



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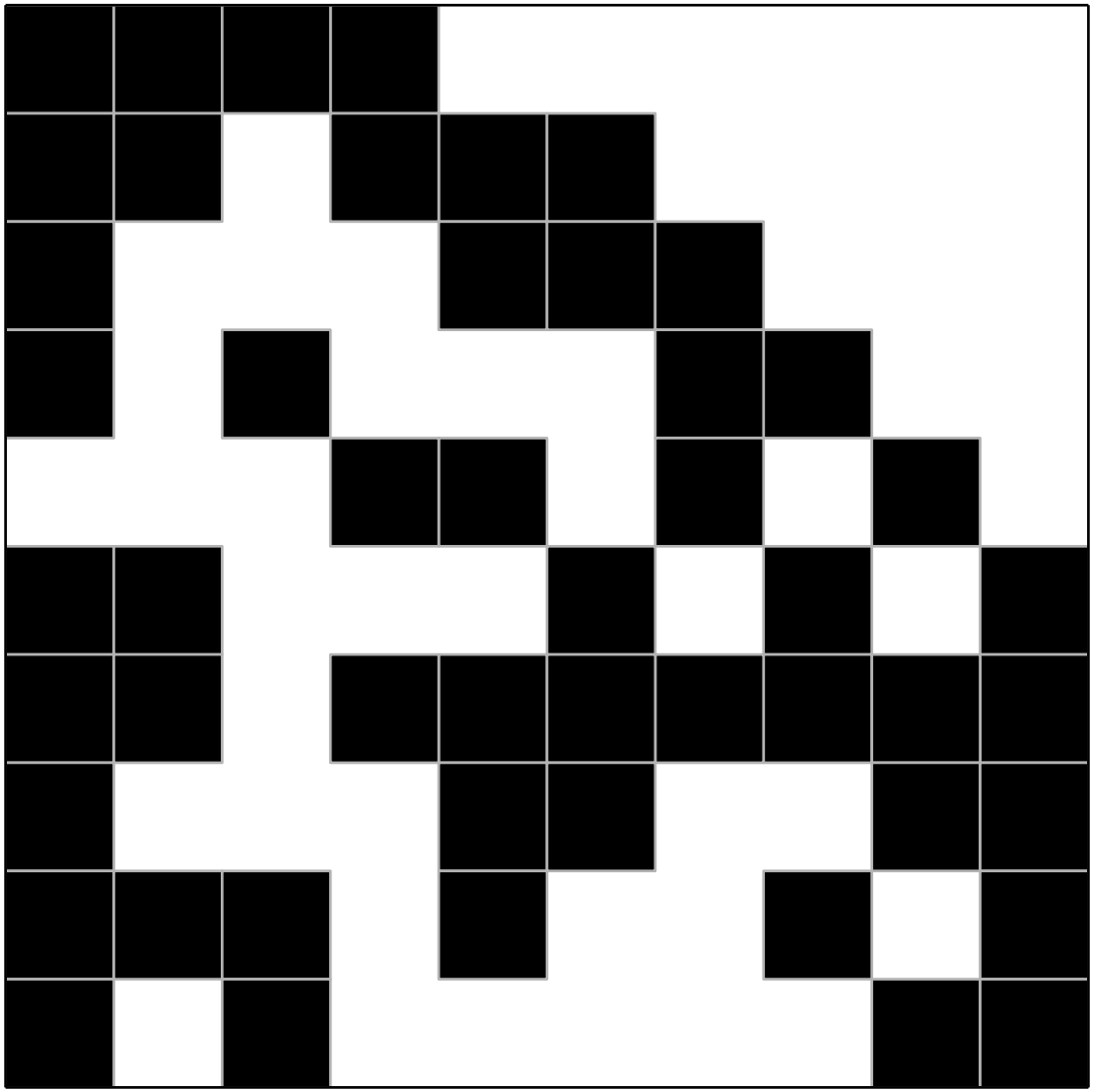

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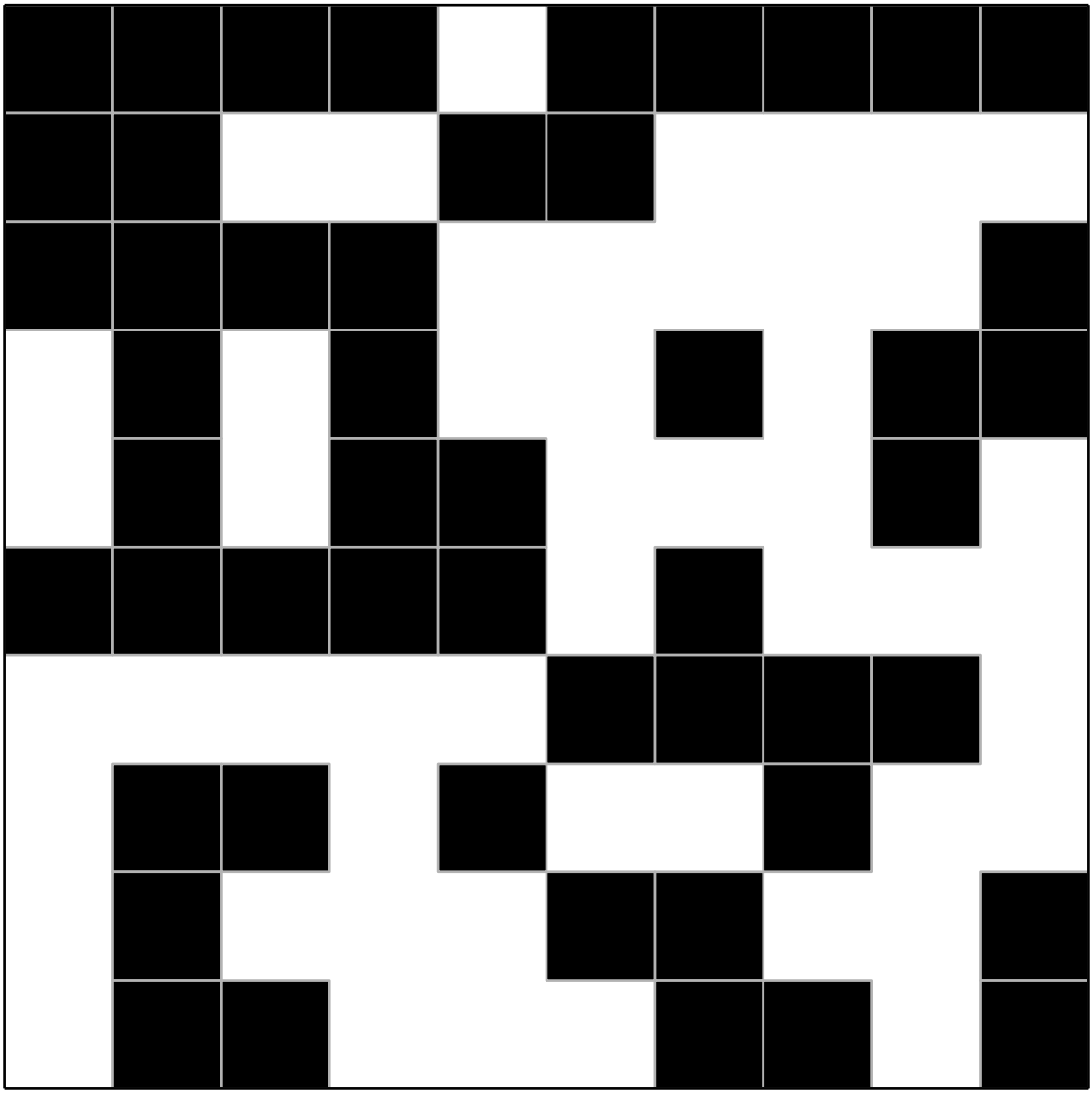

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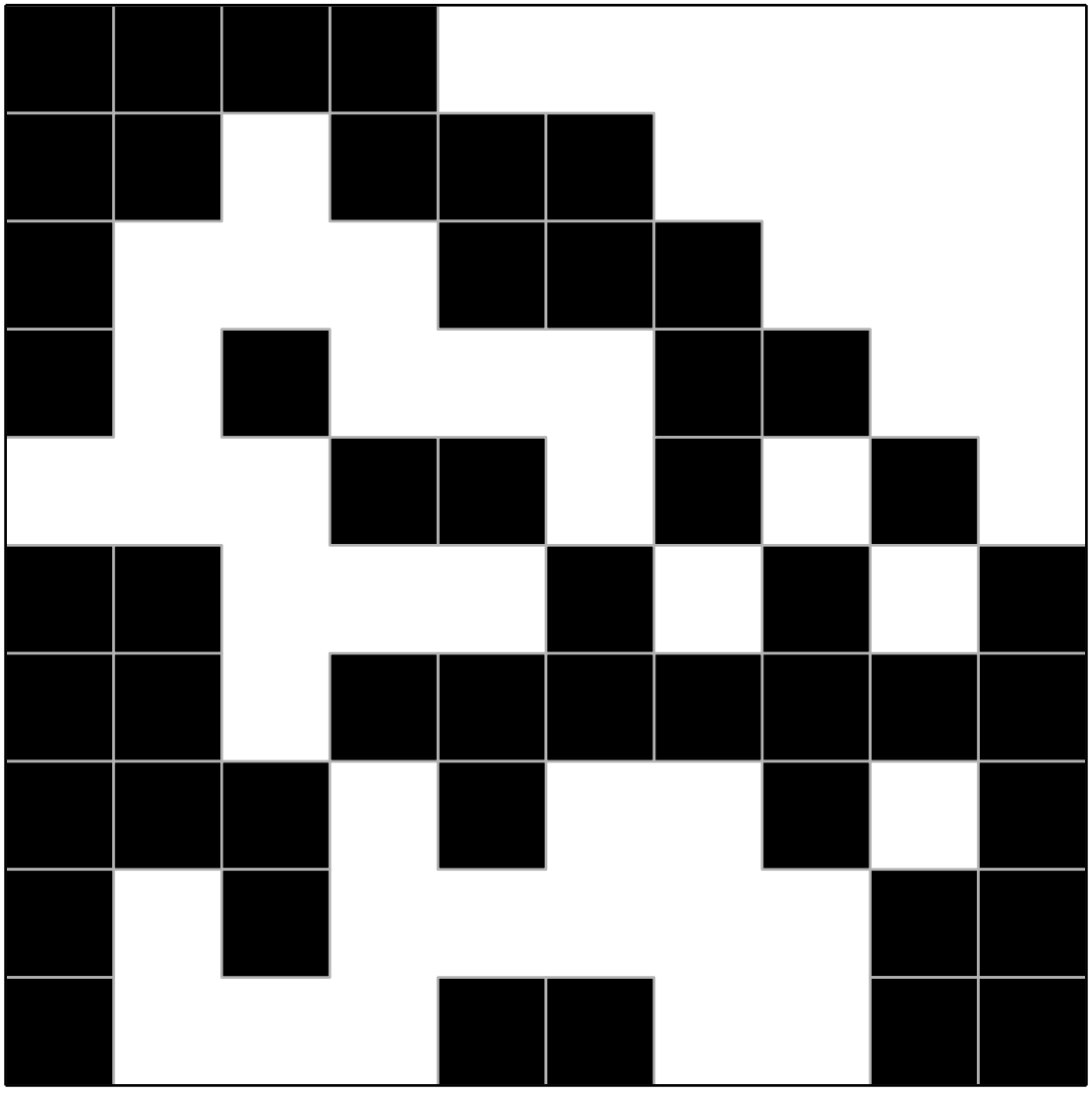
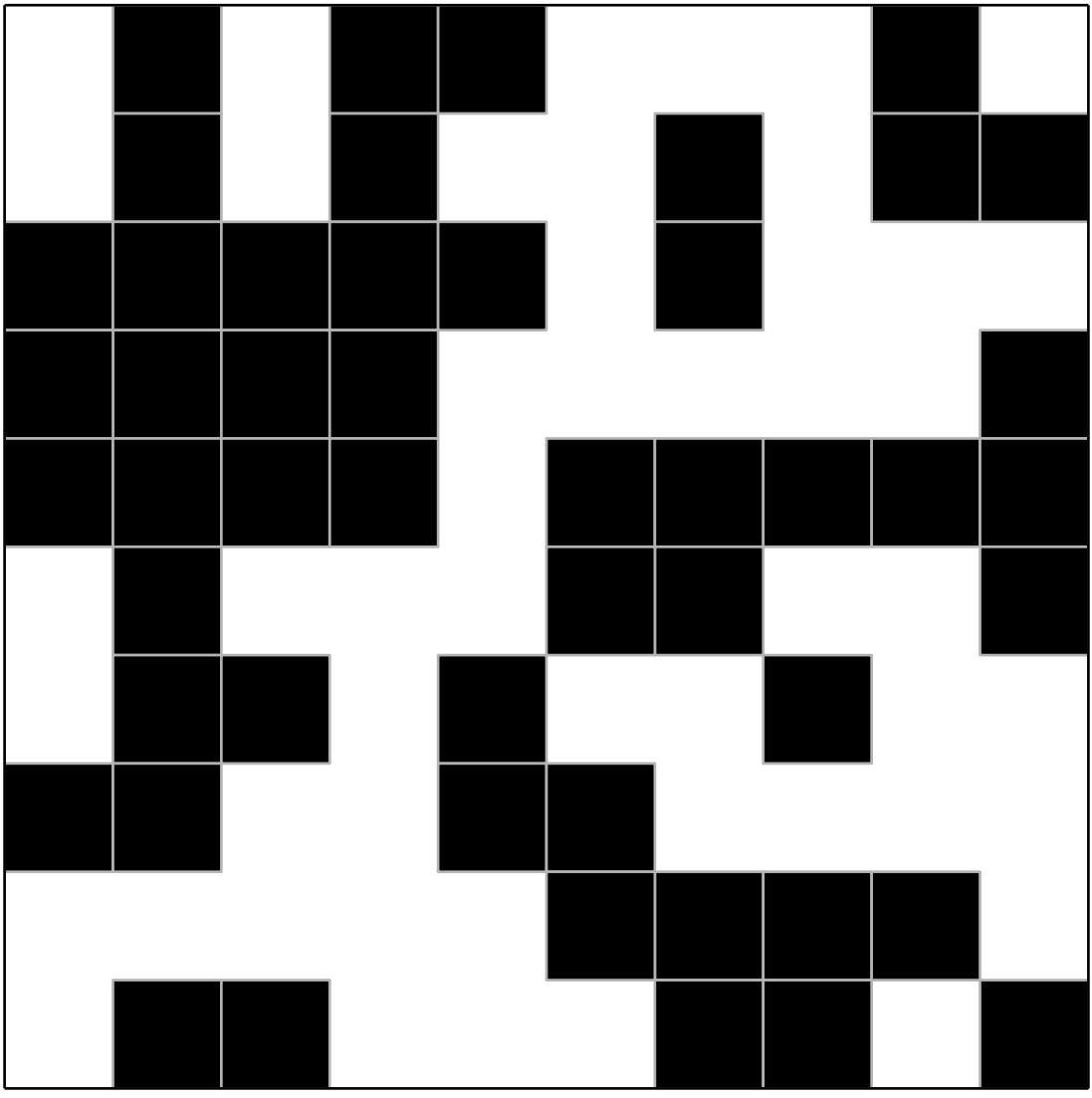
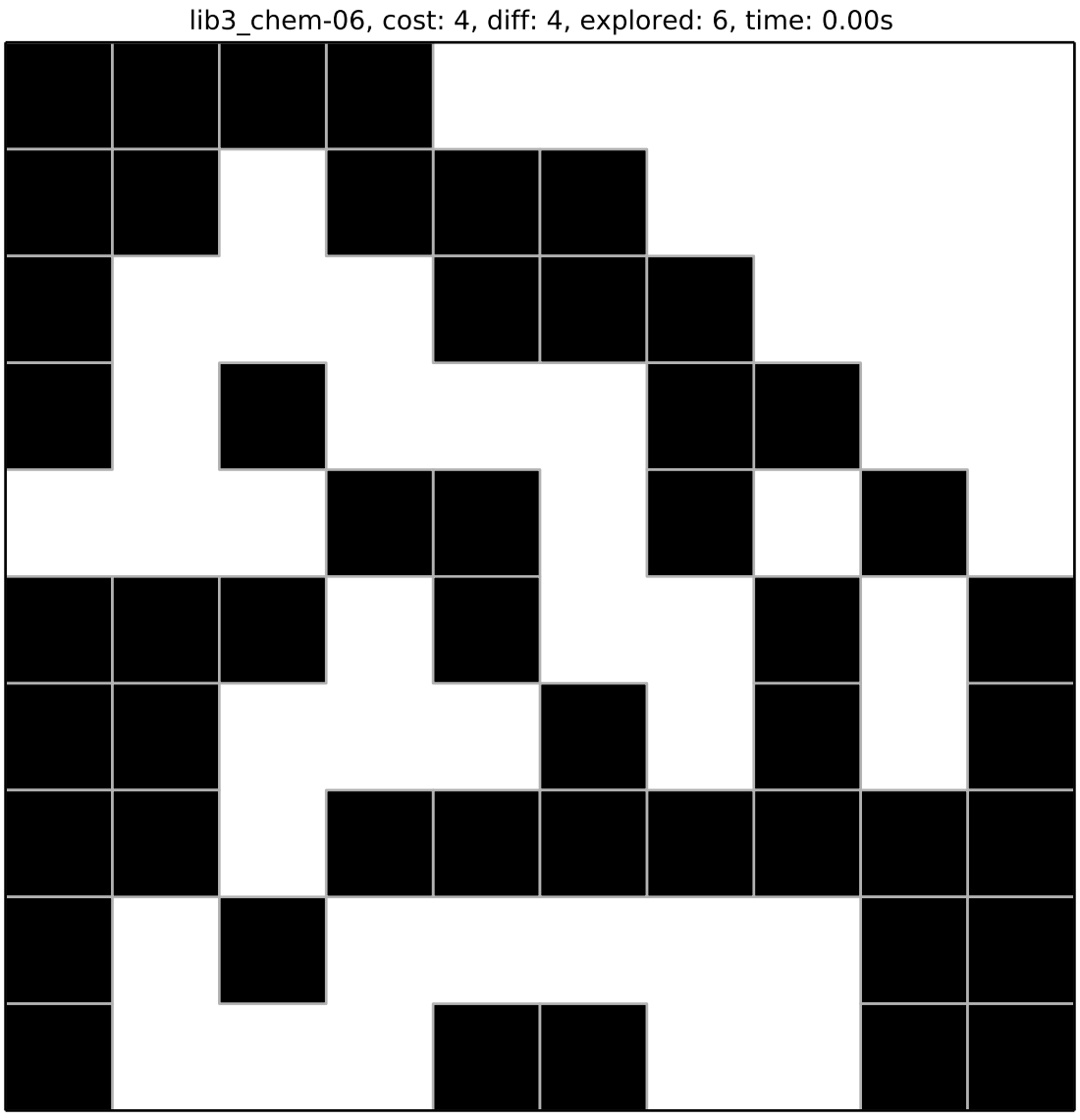
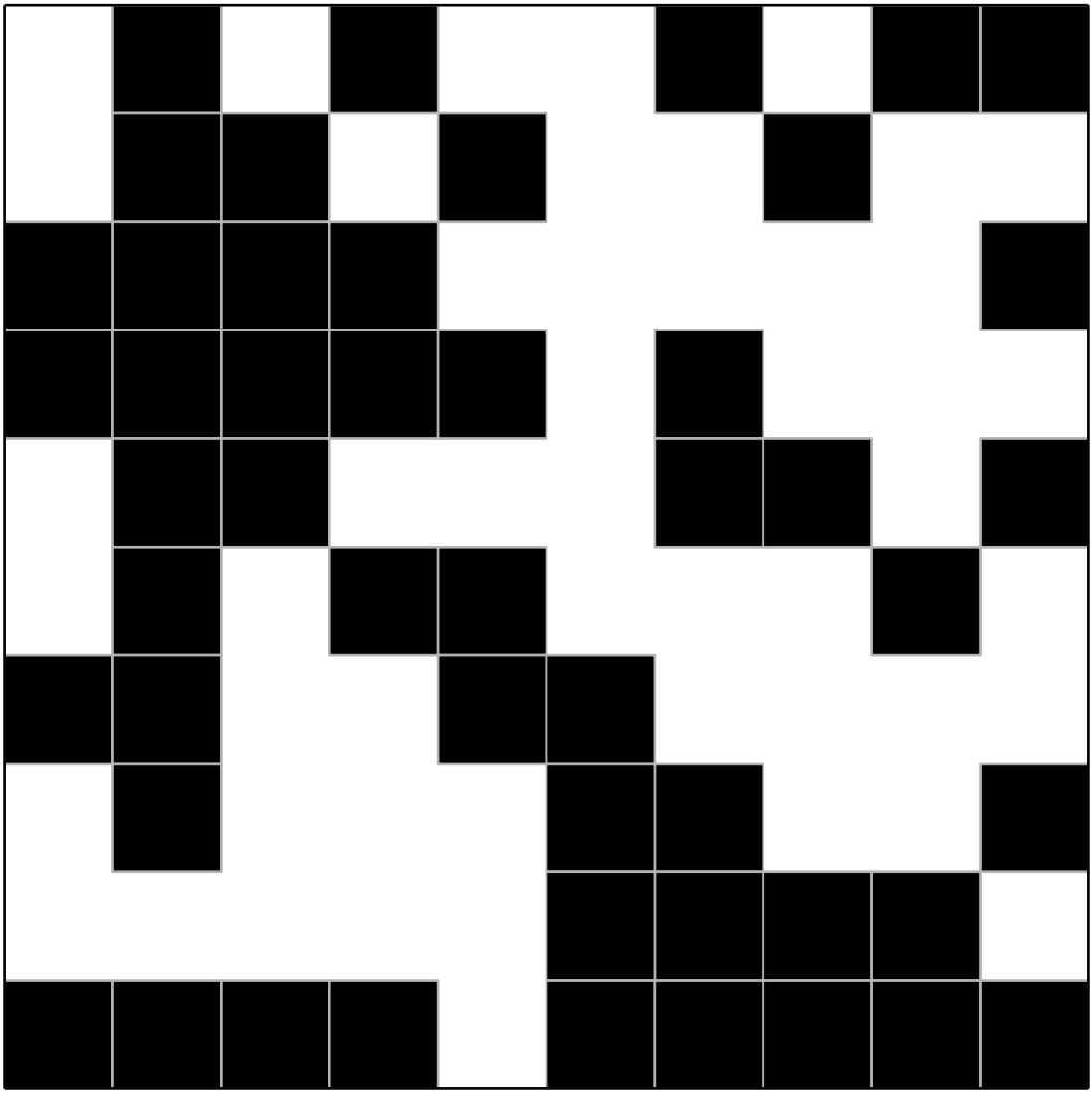


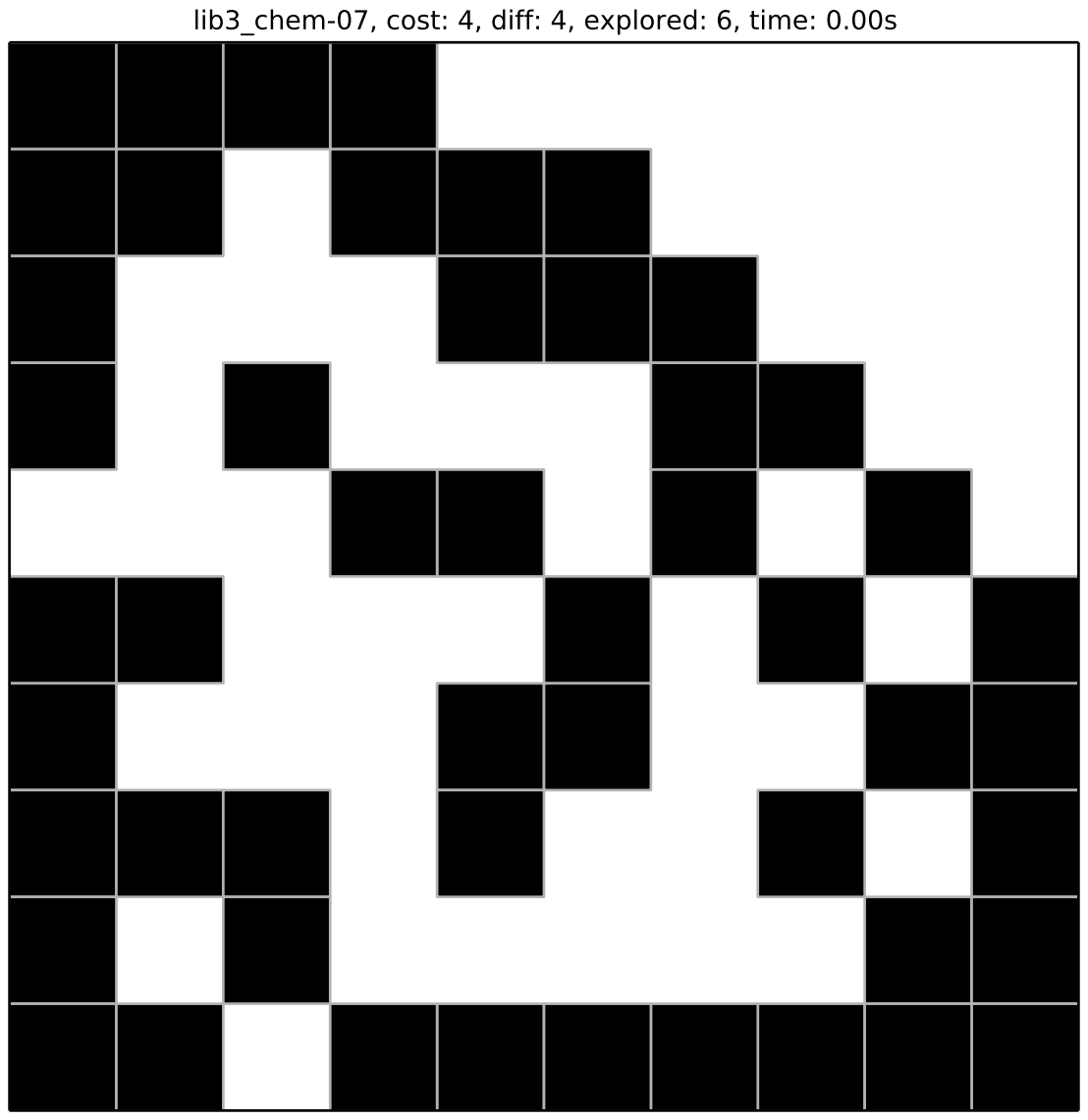
lib3_chem-06 10x10 (50) con: 5, var: 5




lib3_chem-06, cost: 4, diff: 4, explored: 6, time: 0.00s

lib3_chem-07 10x10 (50) con: 5, var: 5

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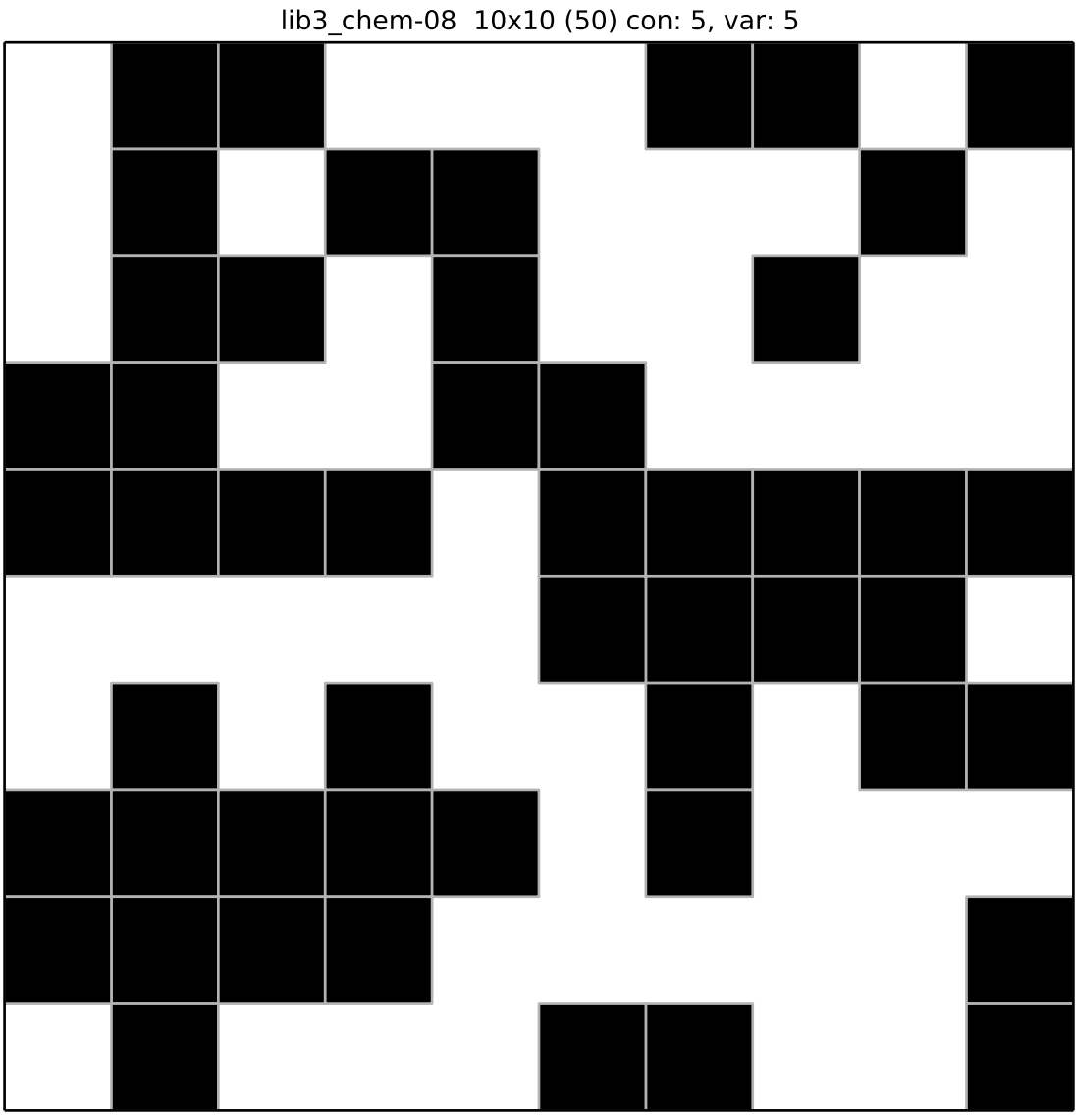
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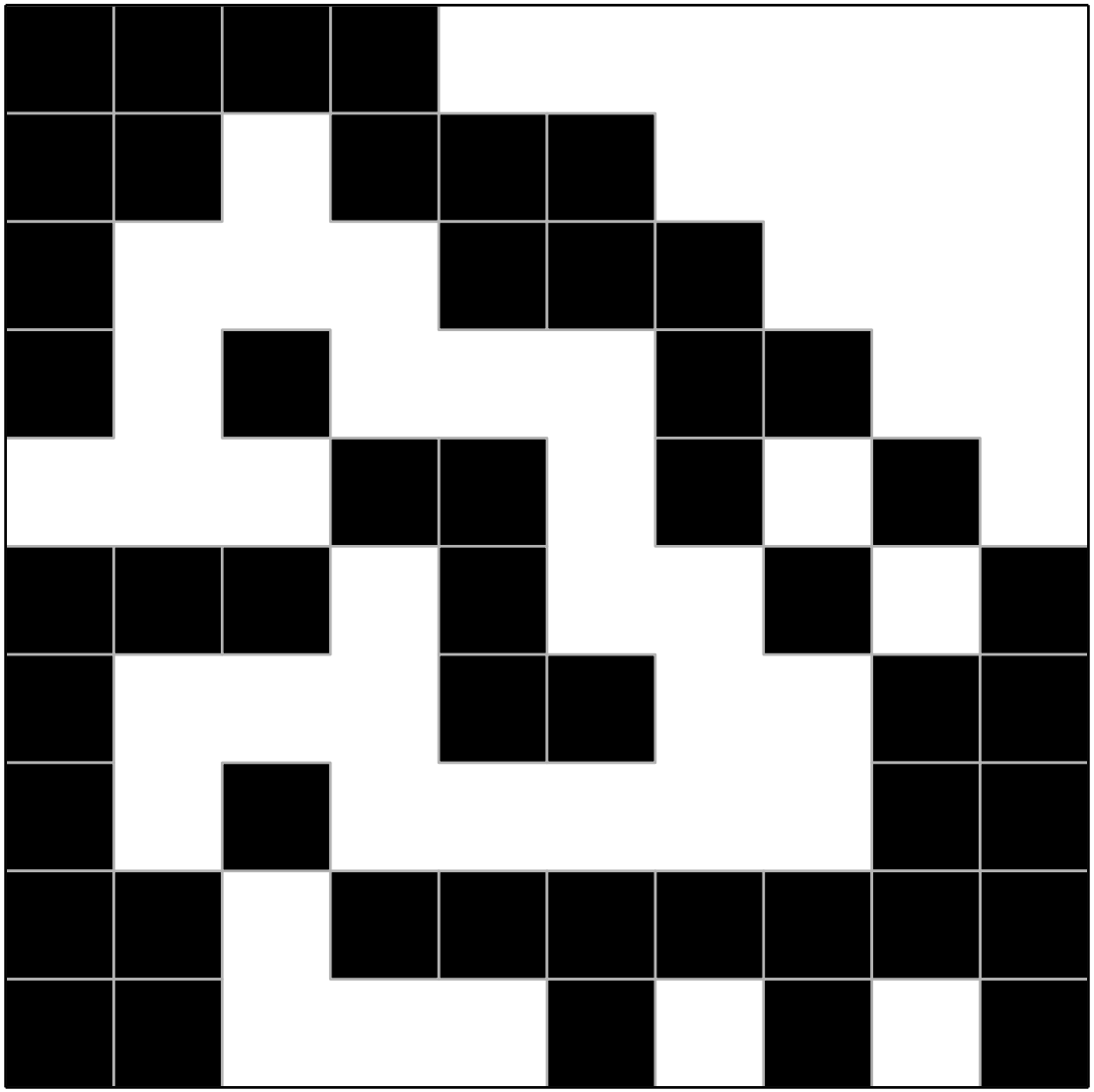
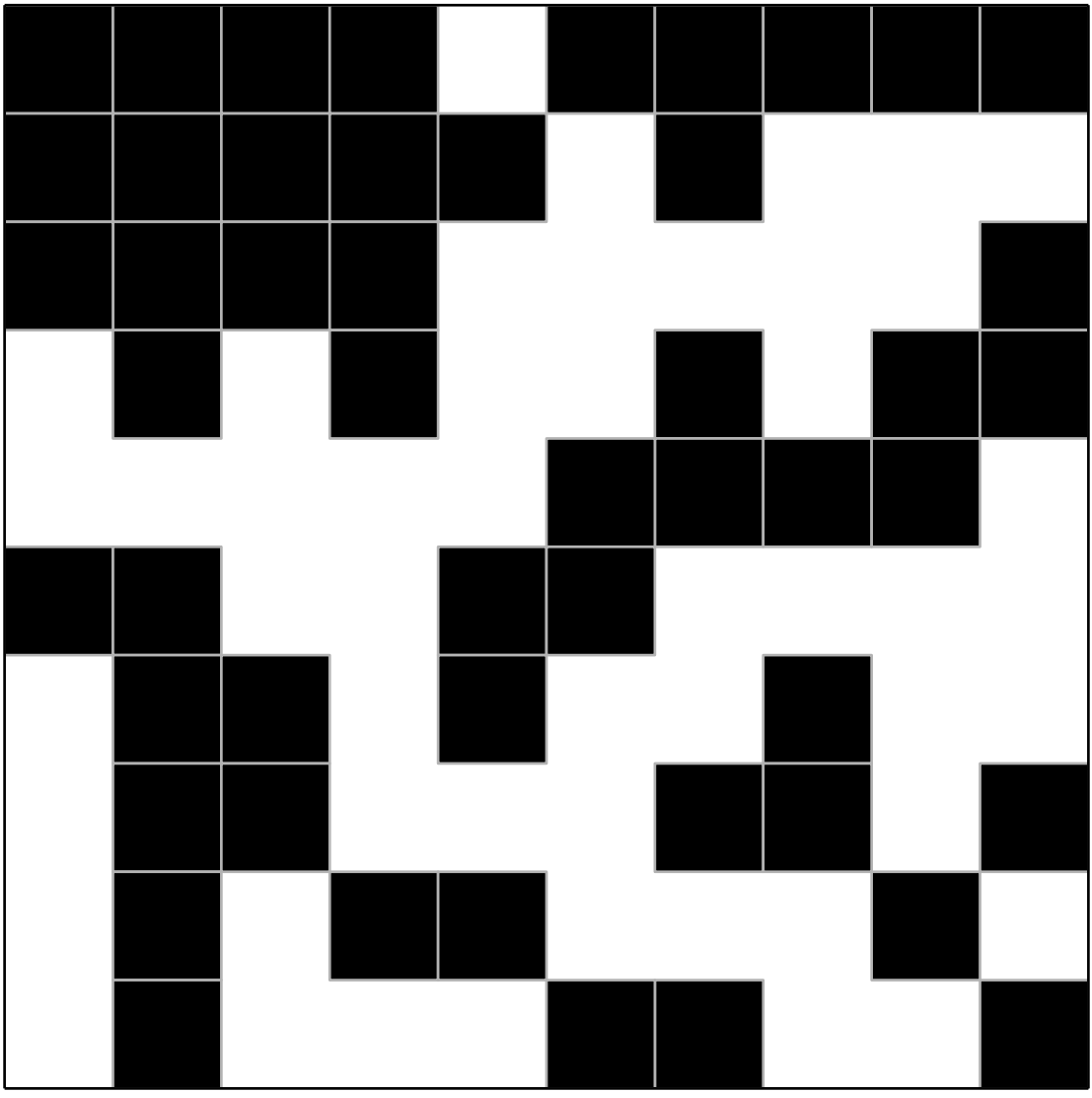
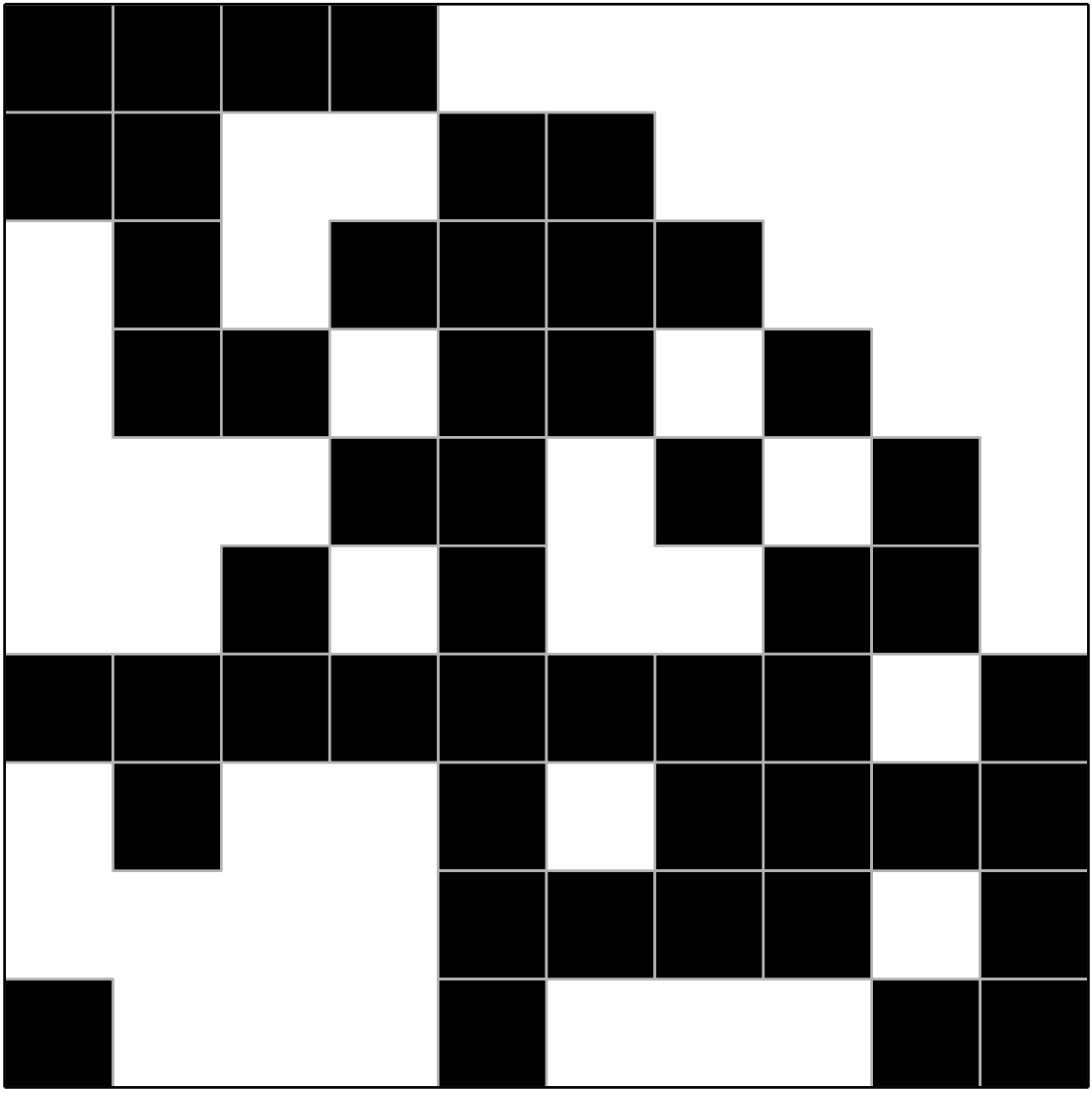
lib3_chem-08, cost: 4, diff: 4, explored: 8, time: 0.00s



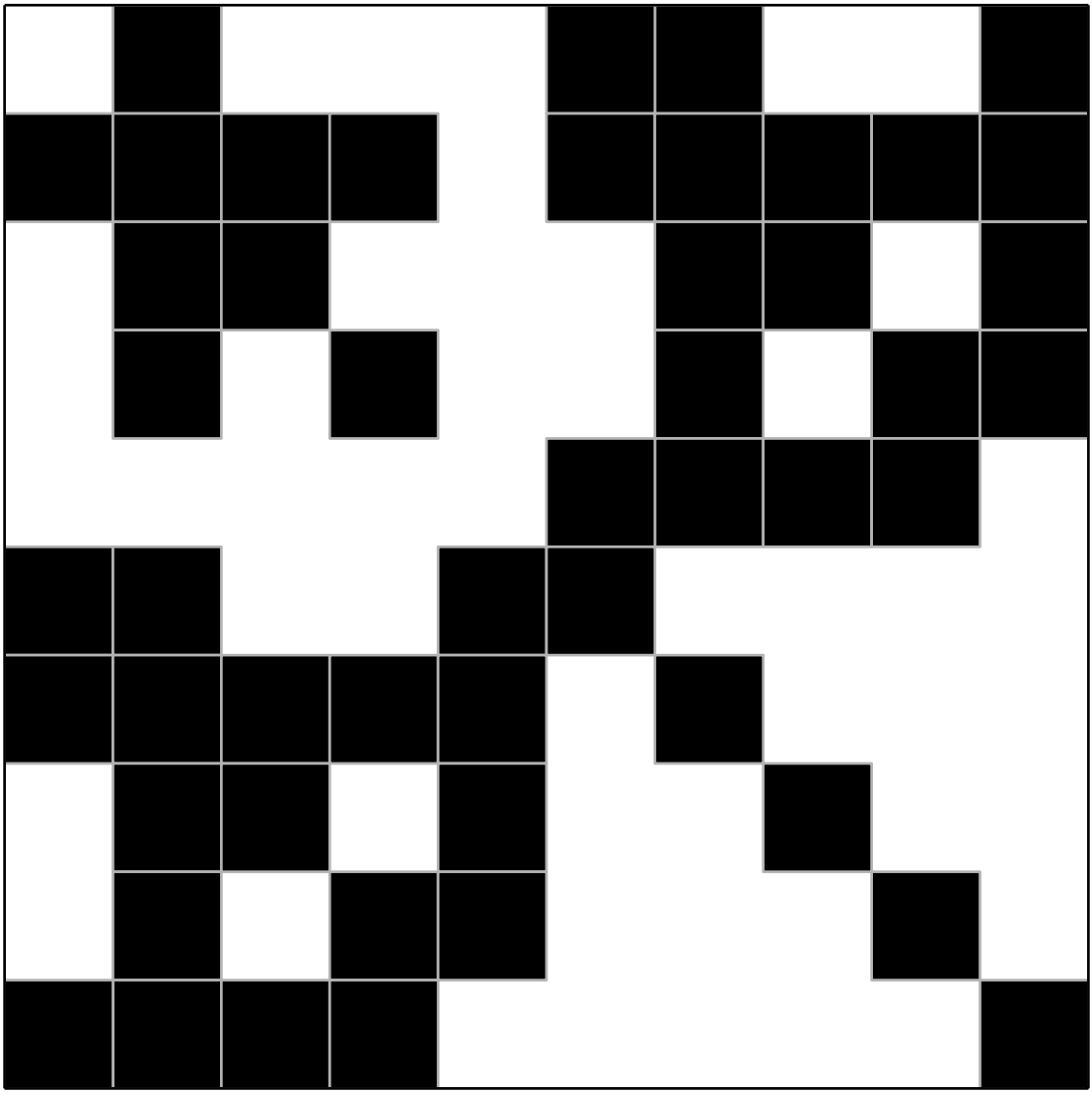
lib3_chem-09 10x10 (50) con: 5, var: 5

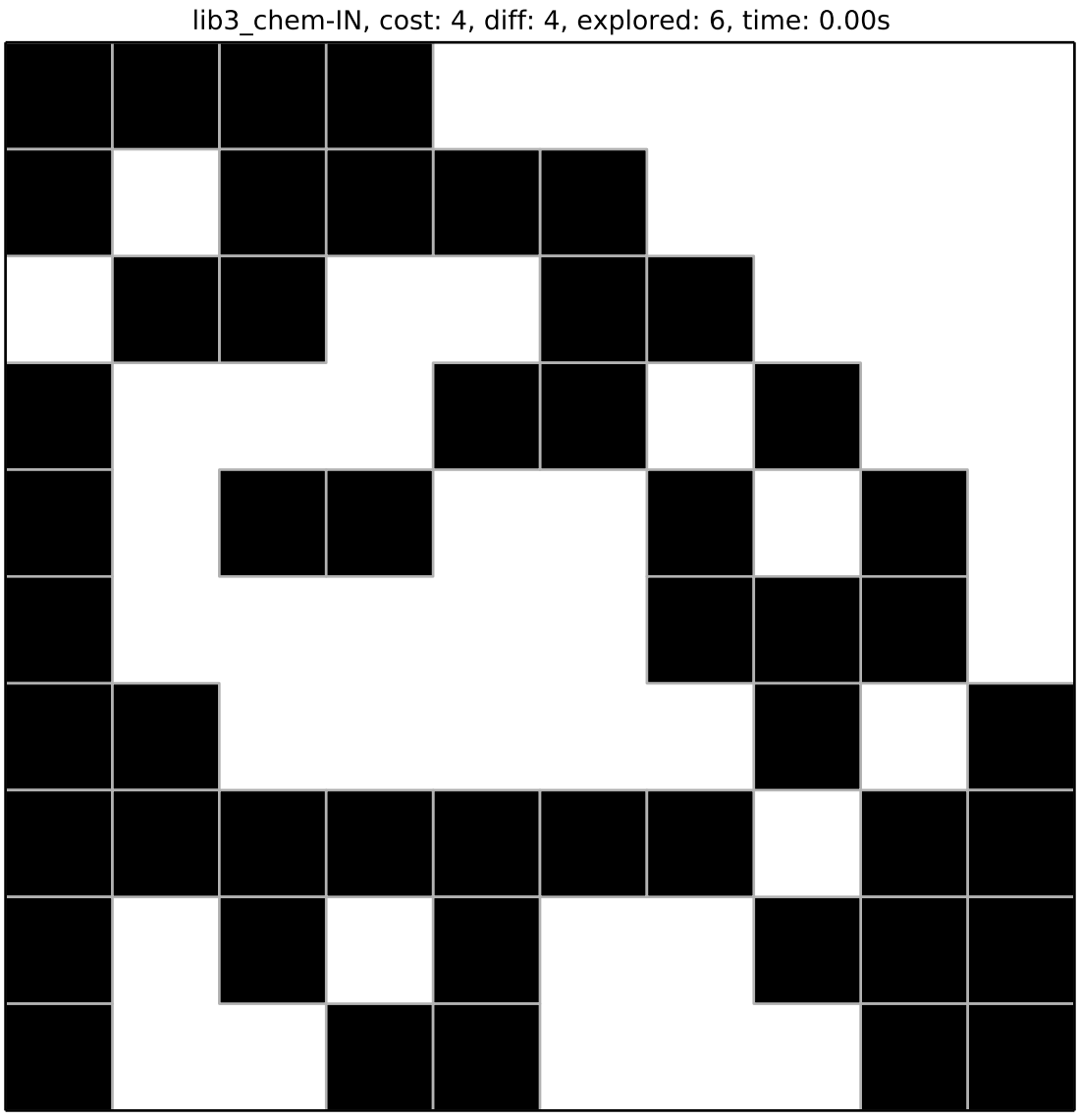


lib3_chem-09, cost: 4, diff: 4, explored: 6, time: 0.00s



lib3_chem-IN 10x10 (50) con: 5, var: 5

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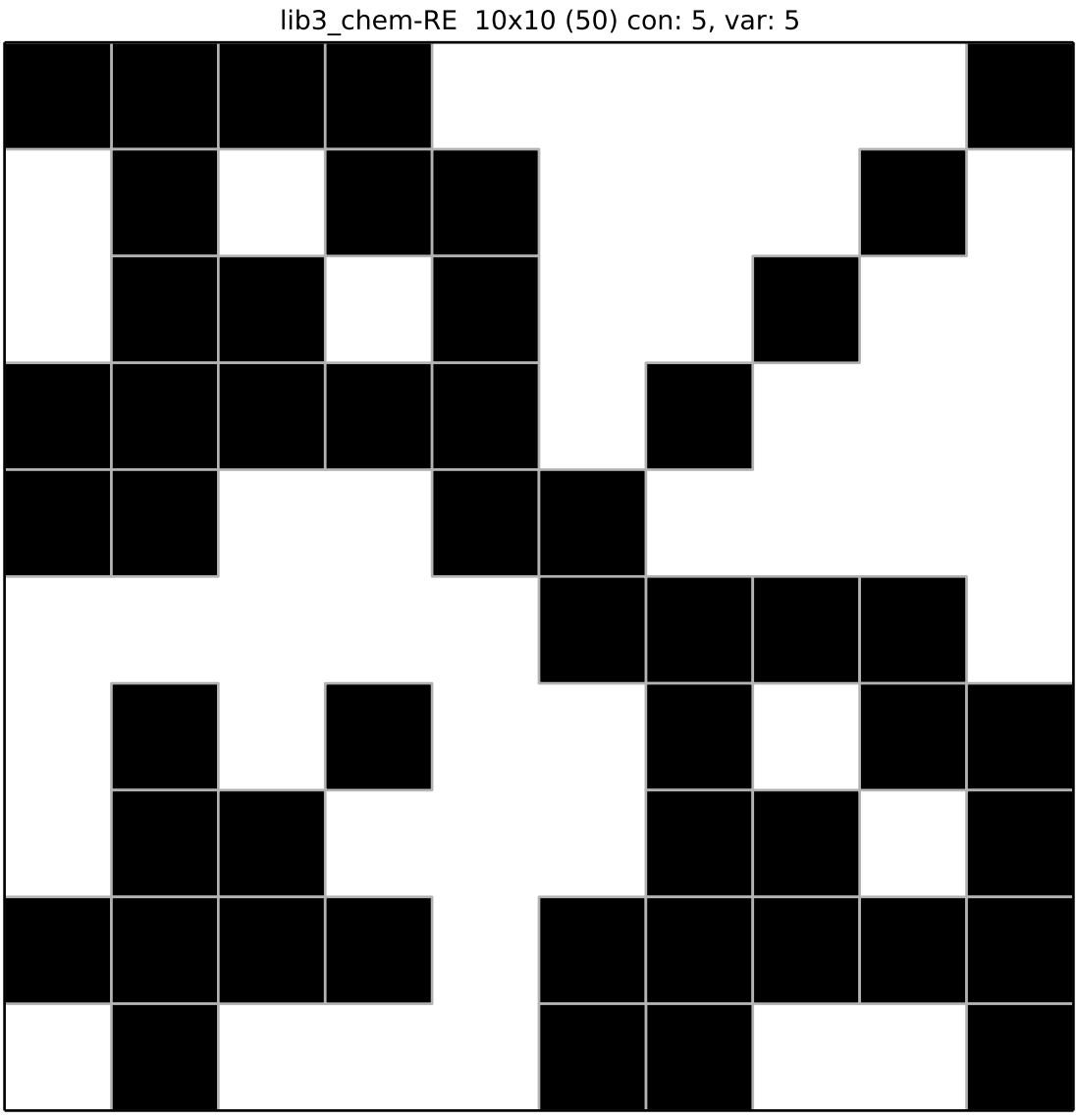
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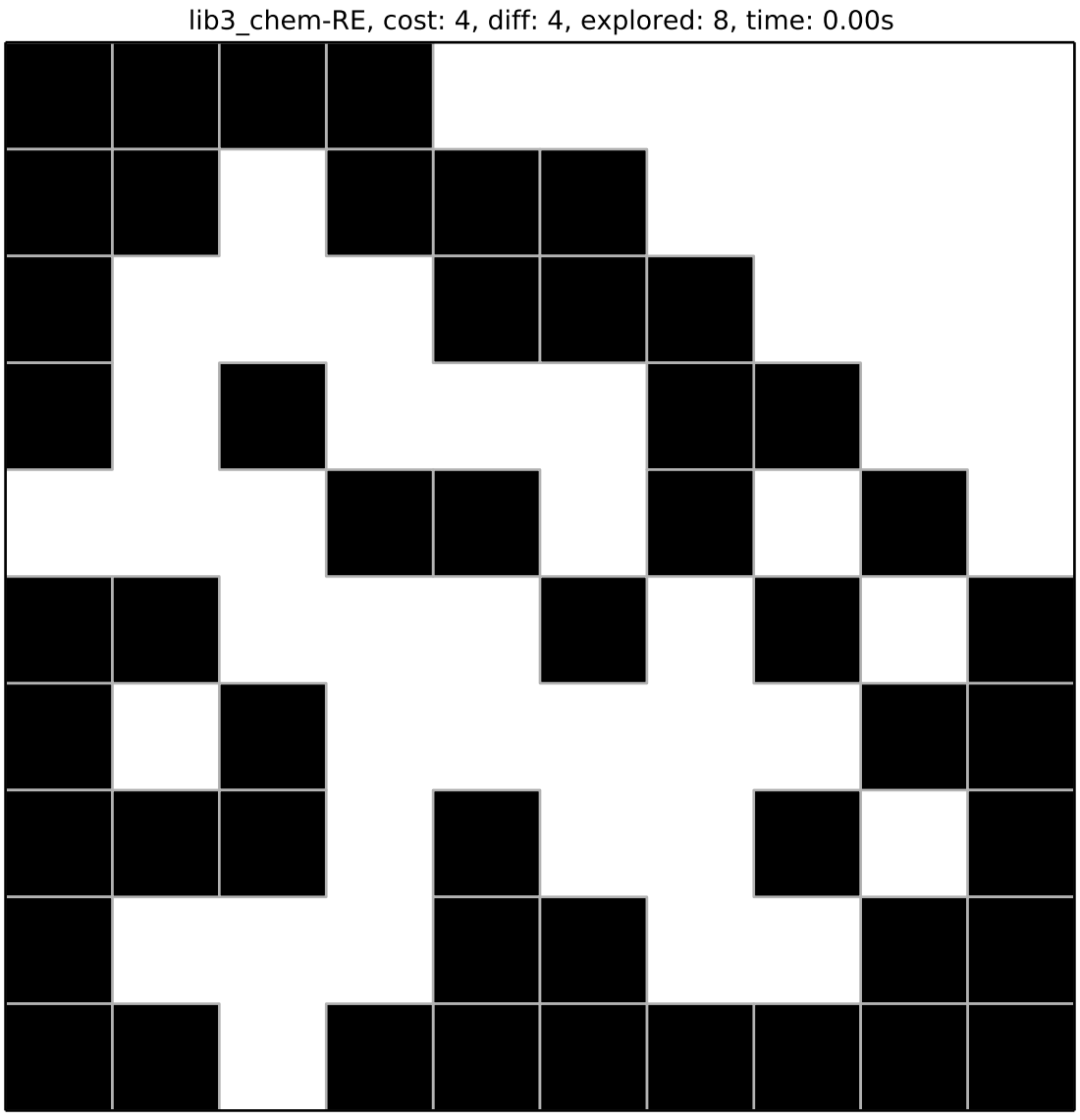
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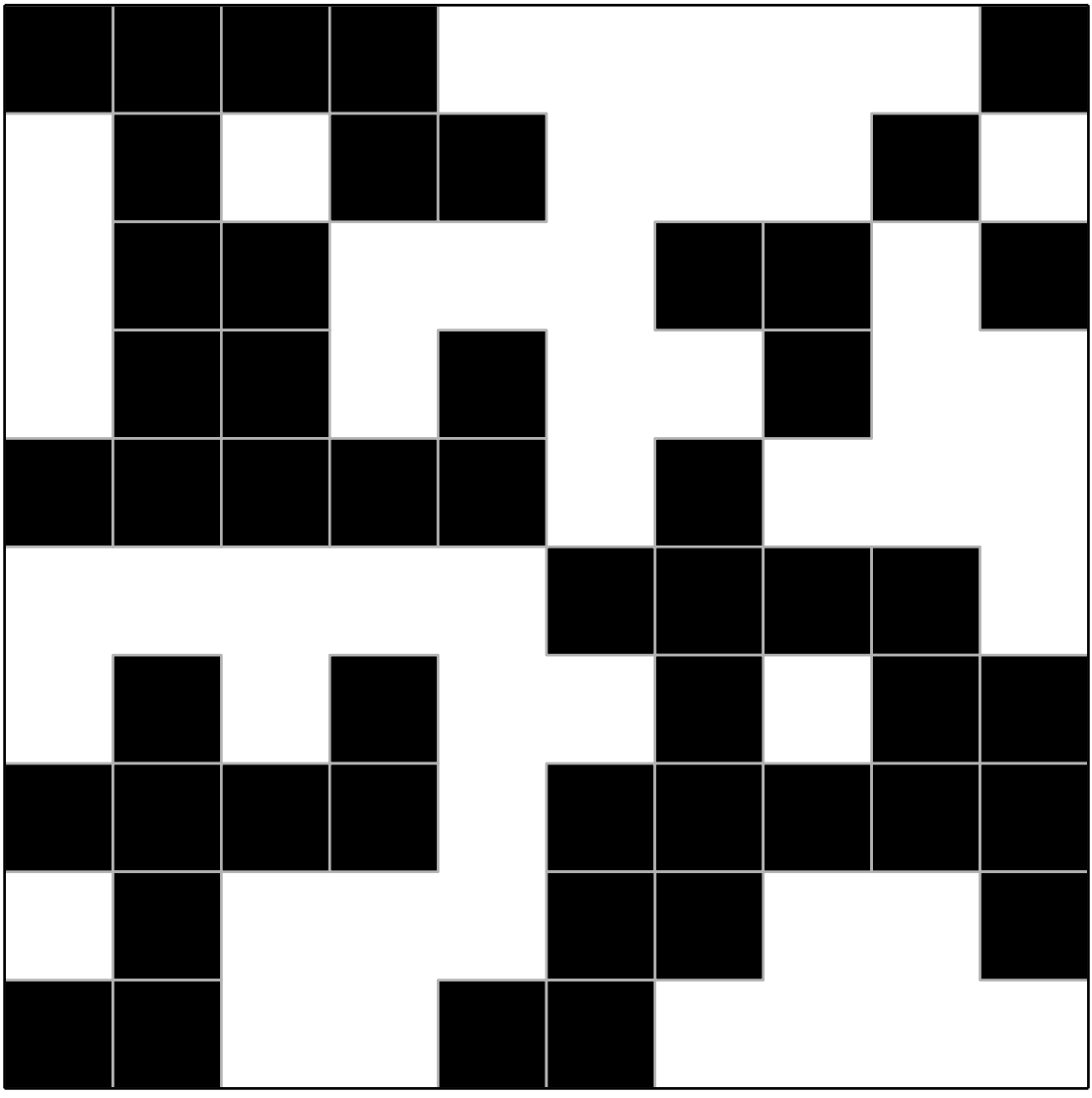
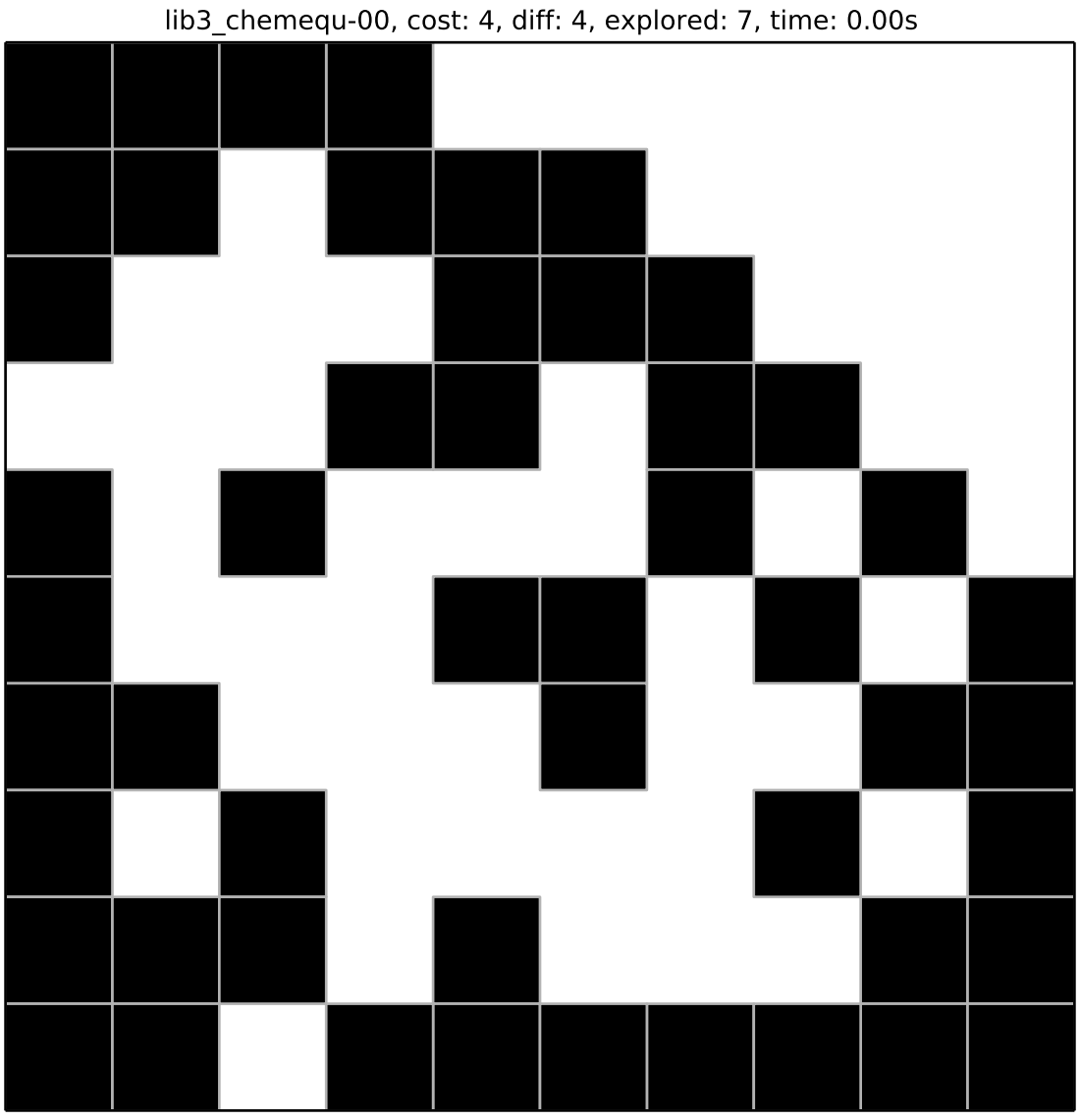
lib3_chemequ-00 10x10 (50) con: 5, var: 5

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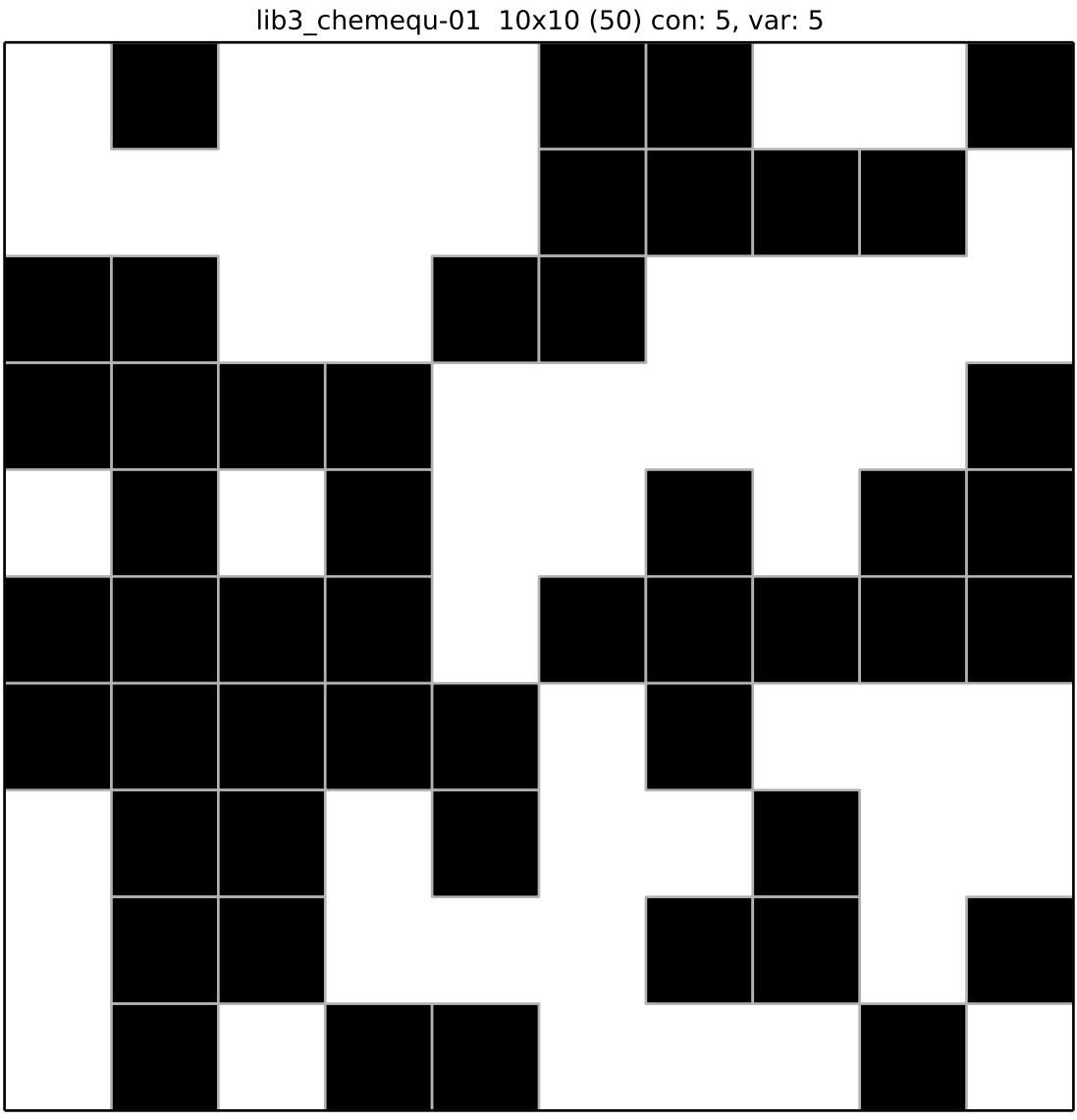
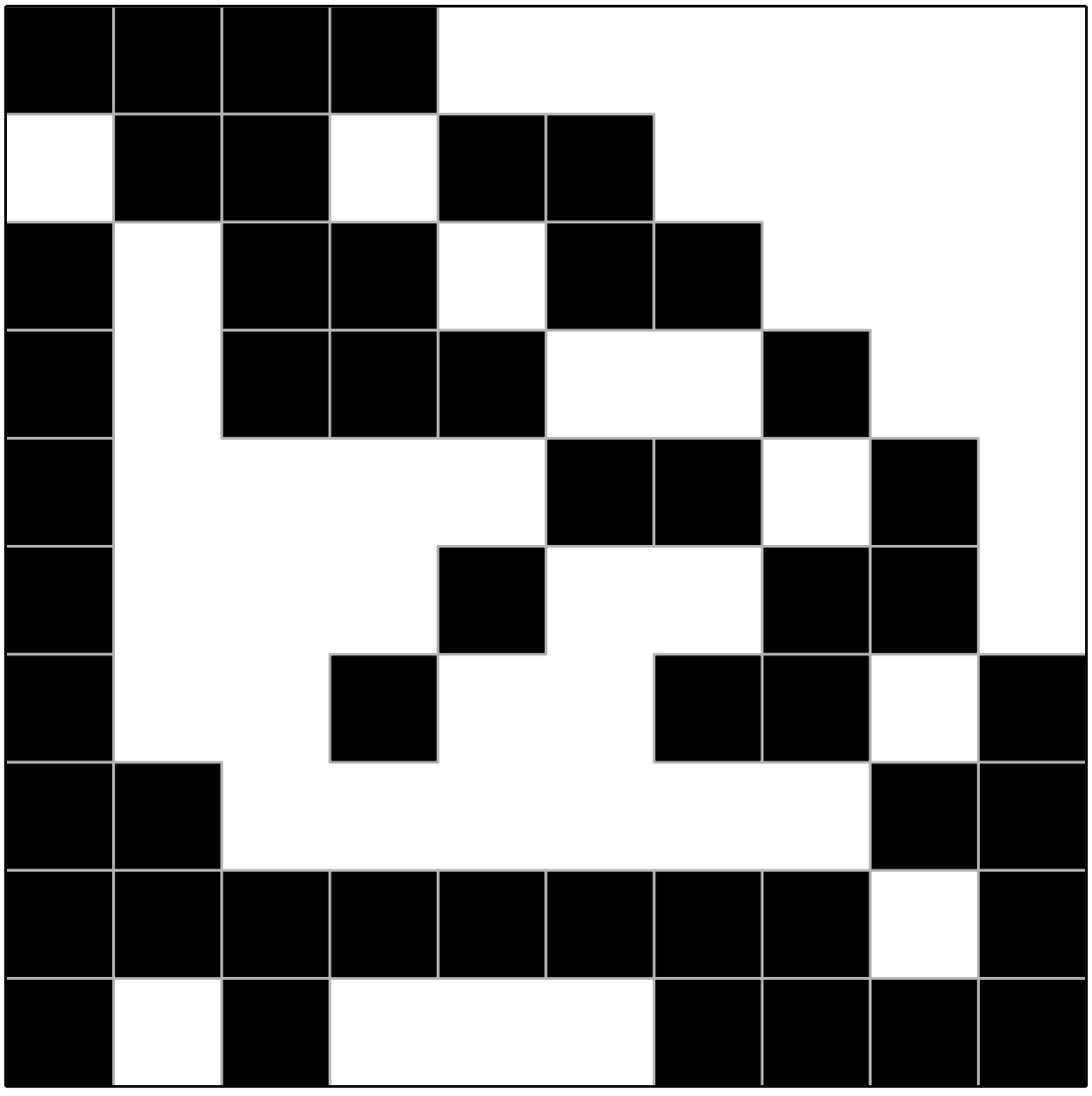

lib3_chemequ-01 10x10 (50) con: 5, var: 5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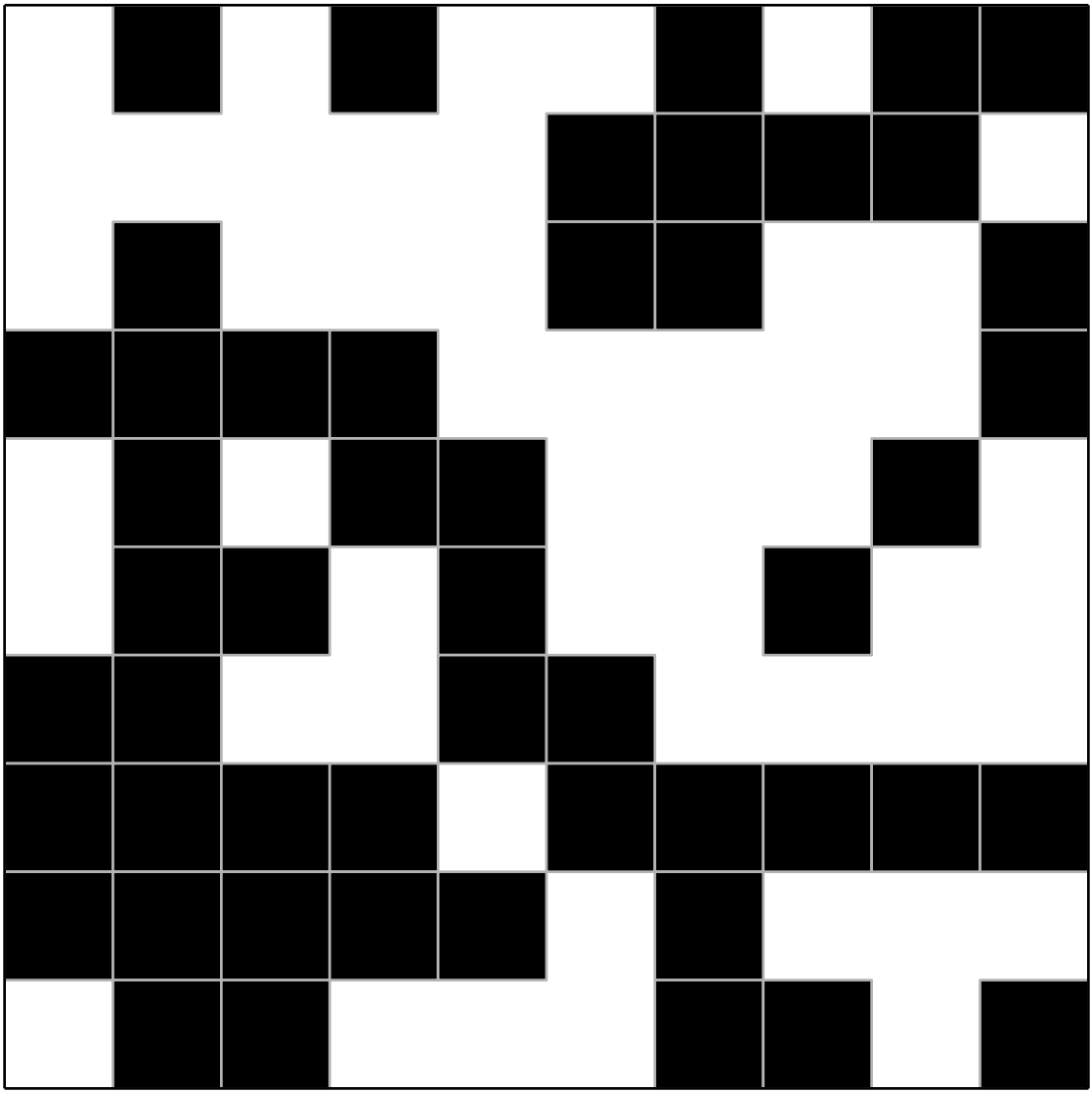
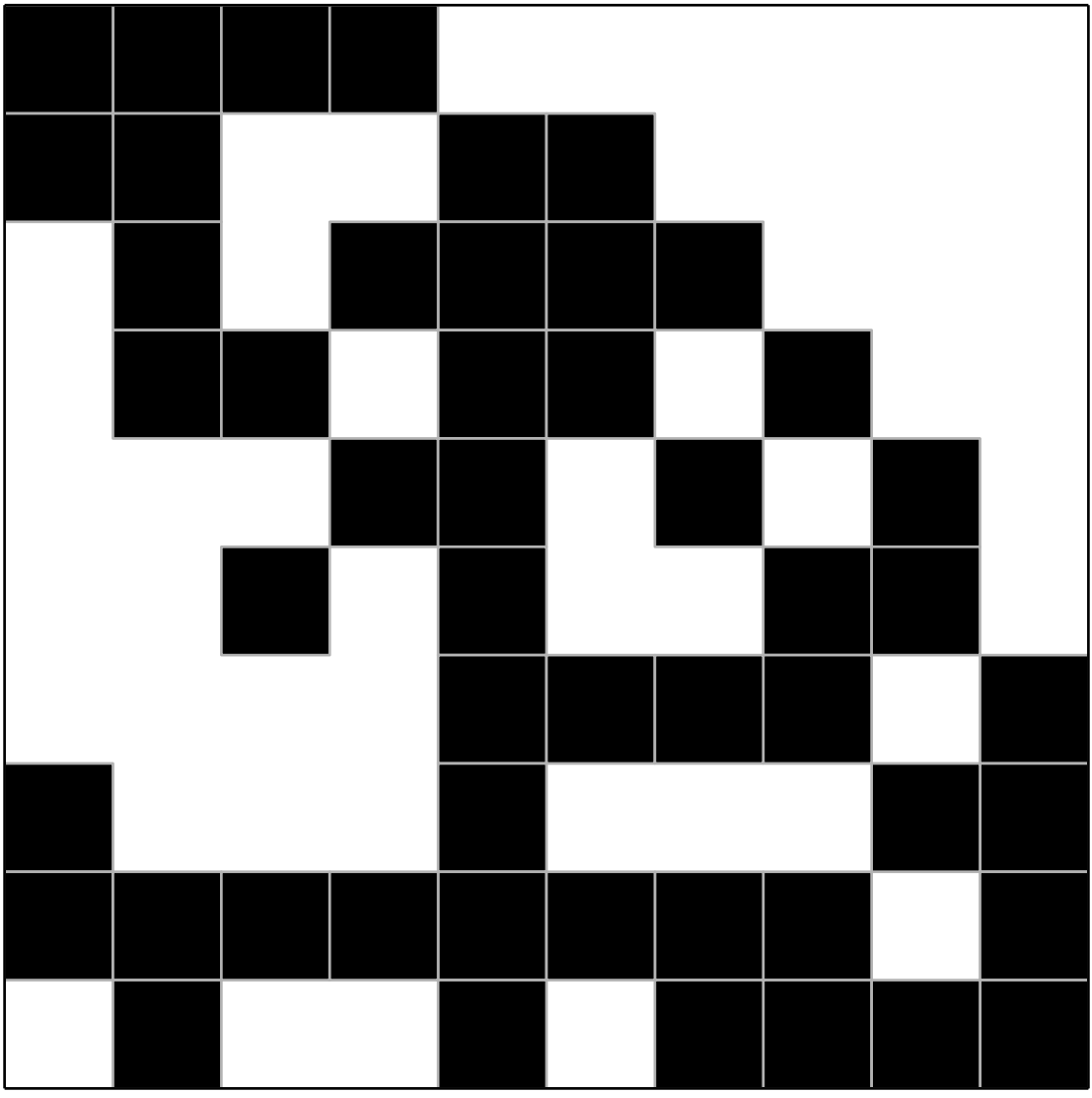
lib3_chemequ-02 10x10 (50) con: 5, var: 5

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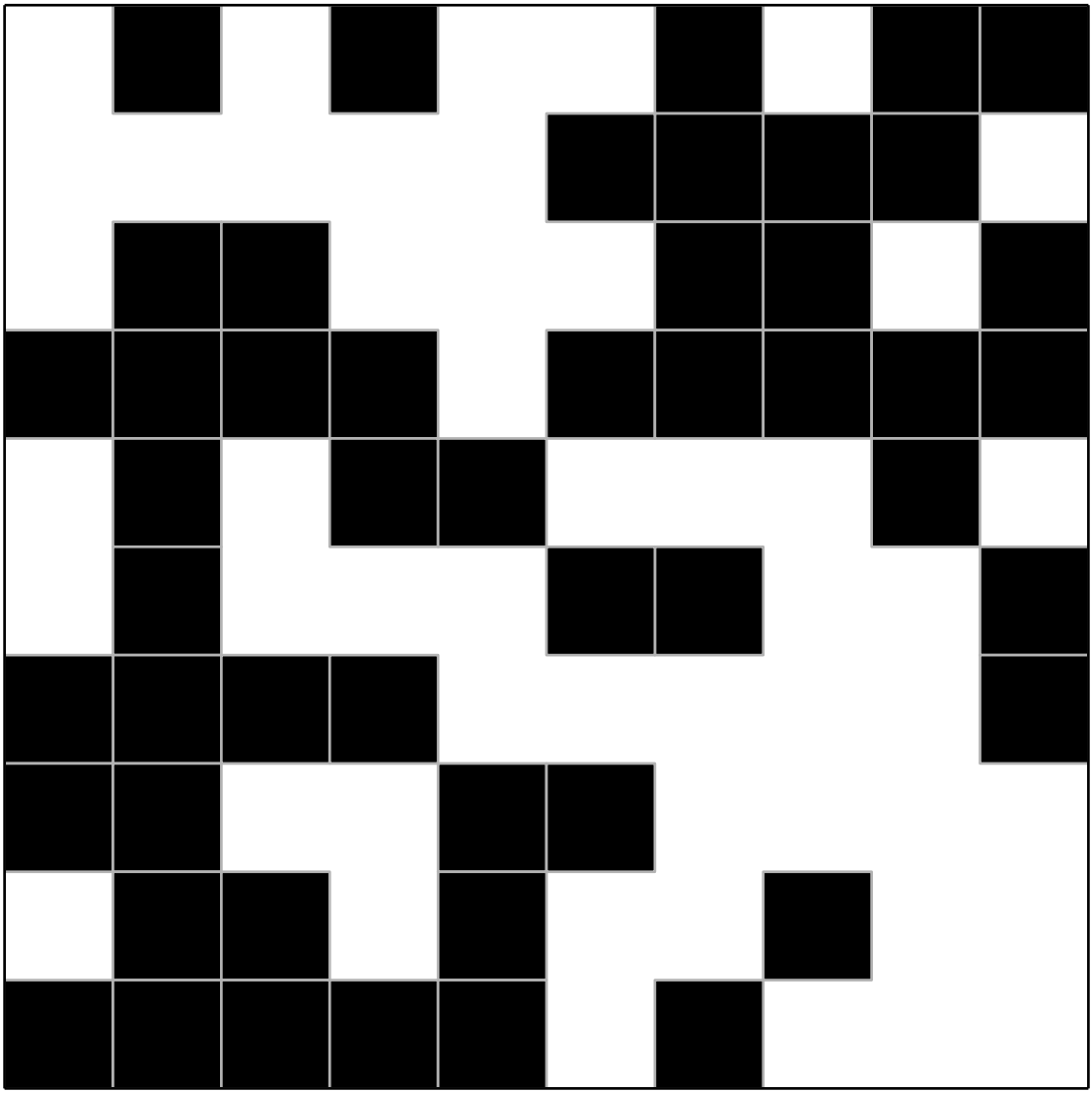
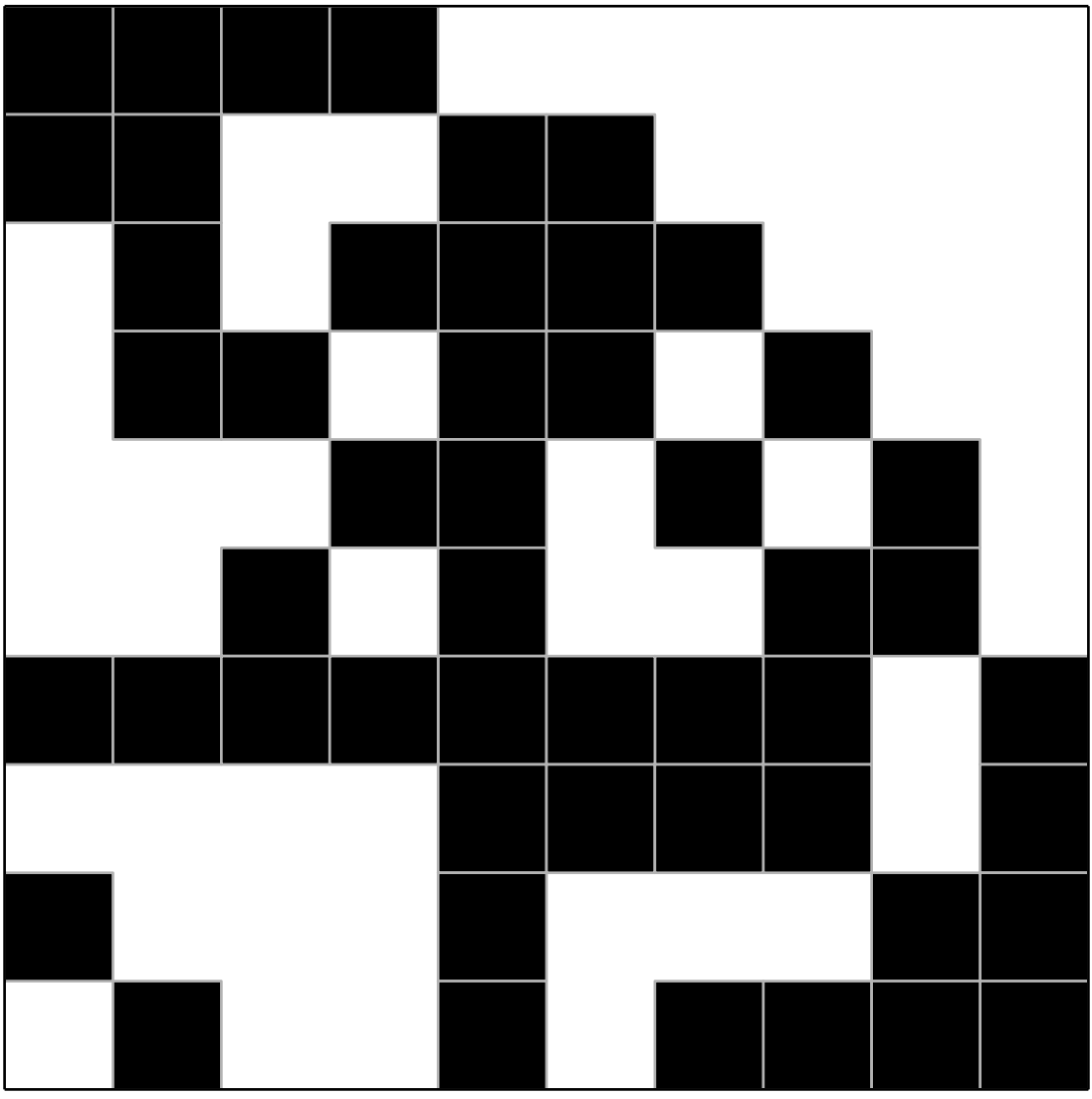
lib3_chemequ-03 10x10 (50) con: 5, var: 5

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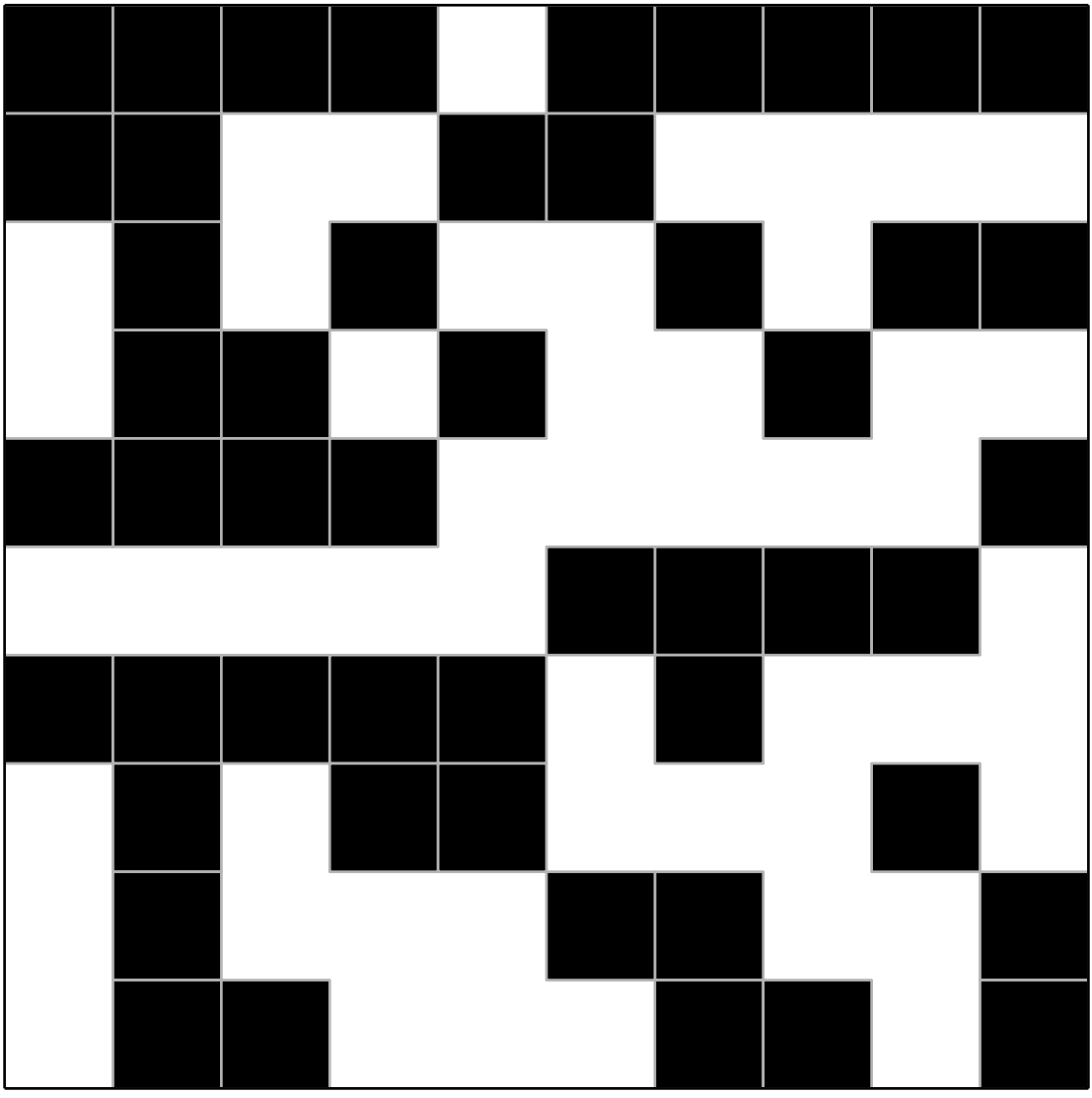
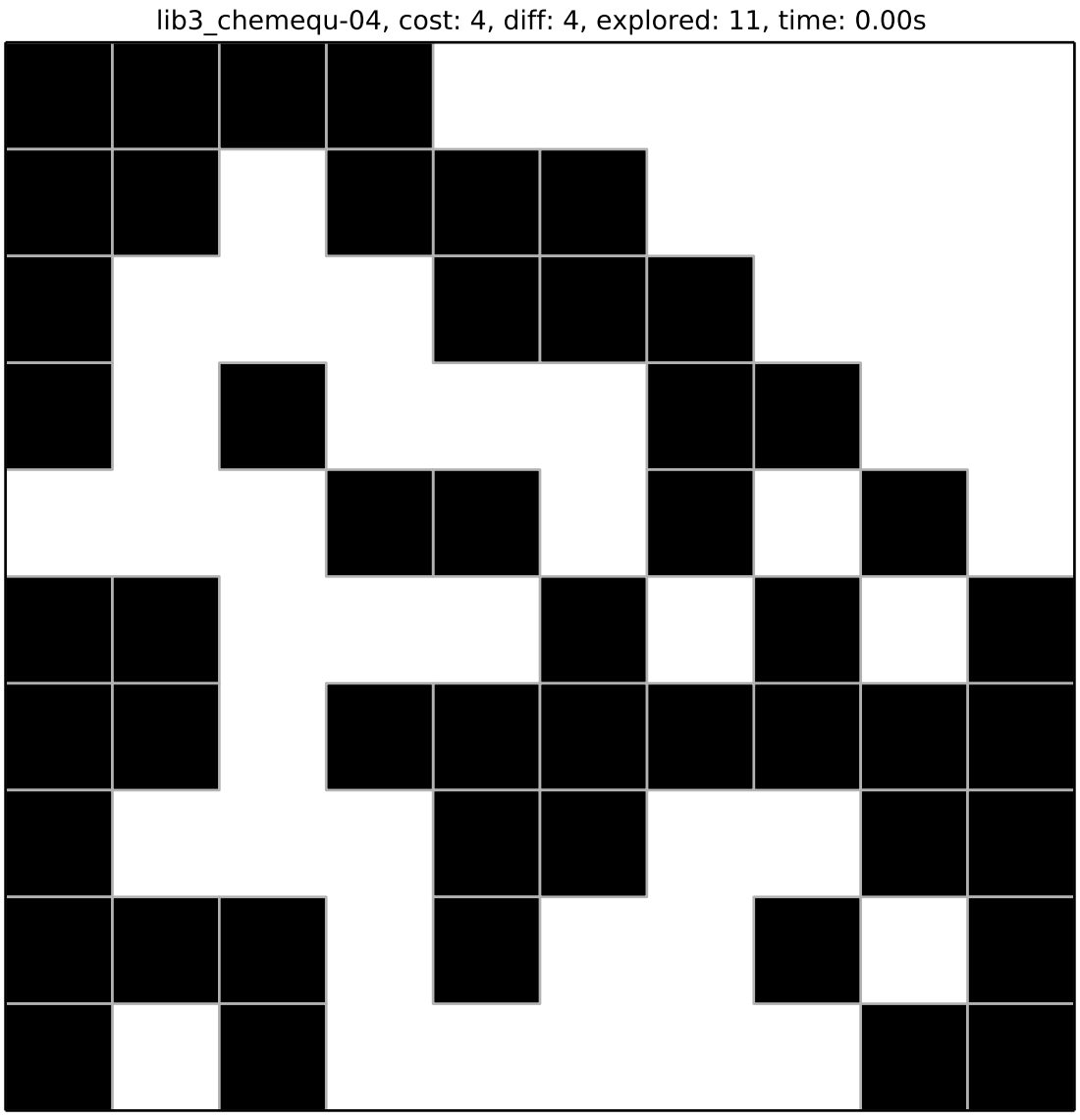
lib3_chemequ-04 10x10 (50) con: 5, var: 5

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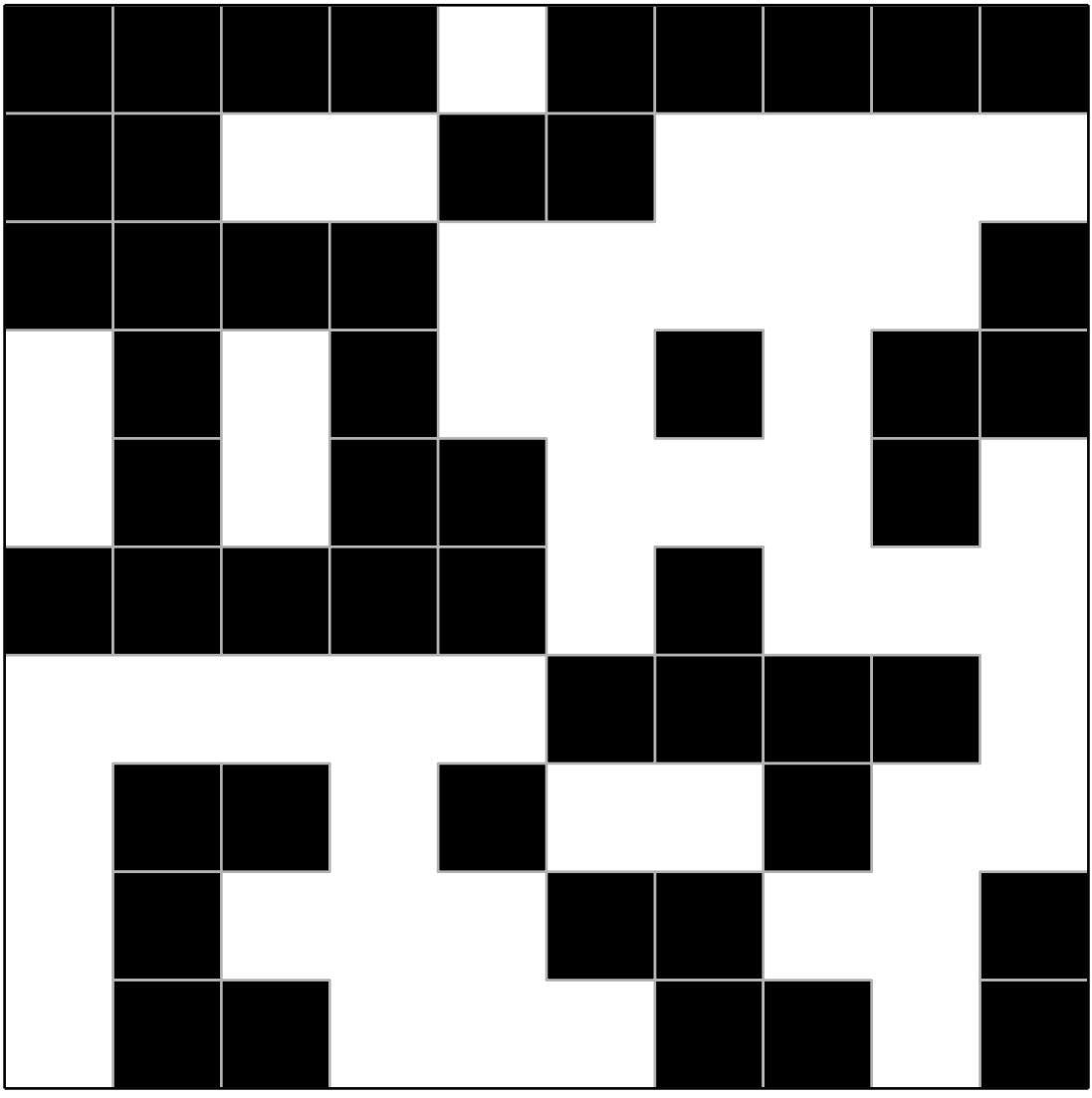
lib3_chemequ-05 10x10 (50) con: 5, var: 5

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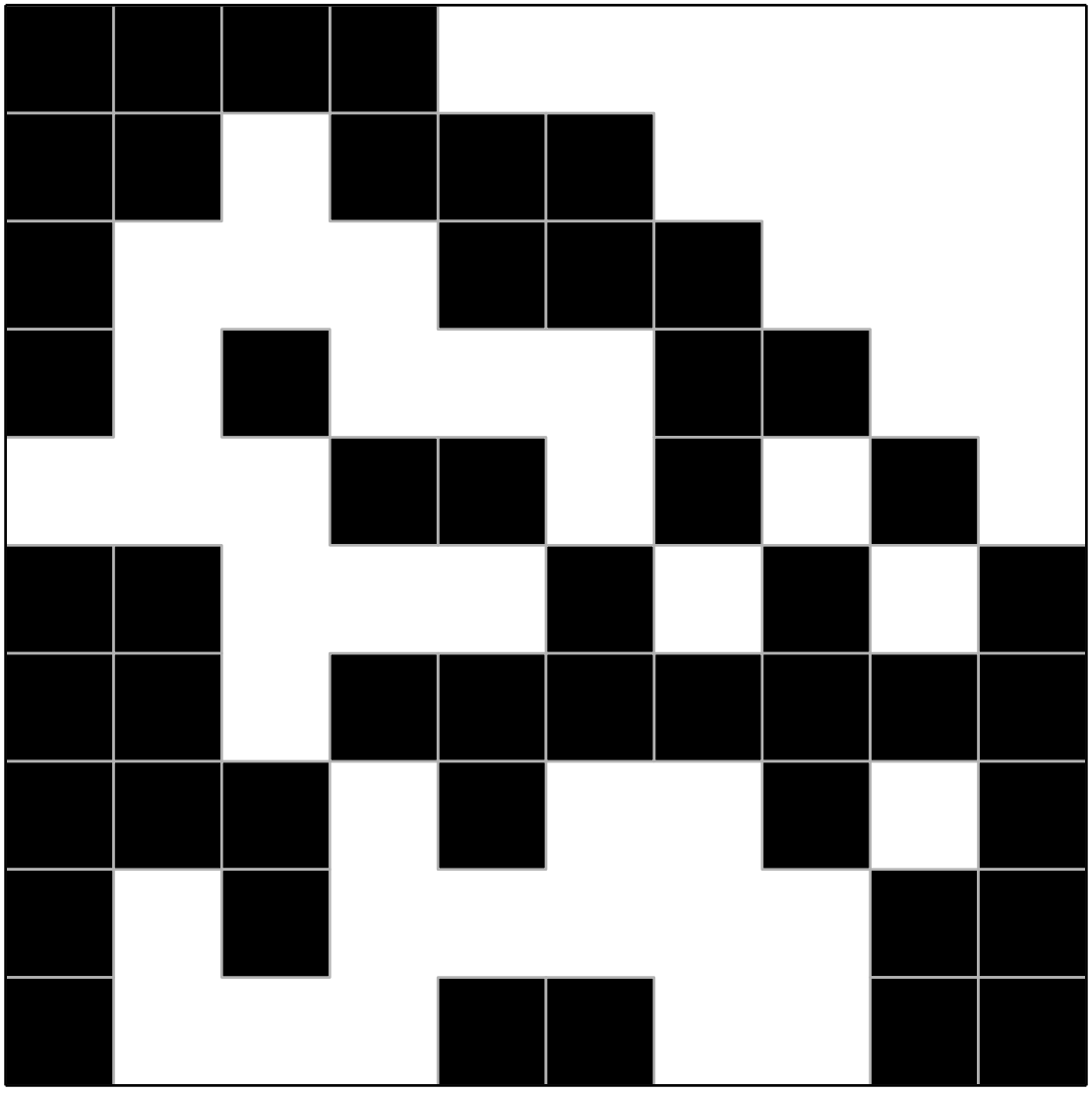
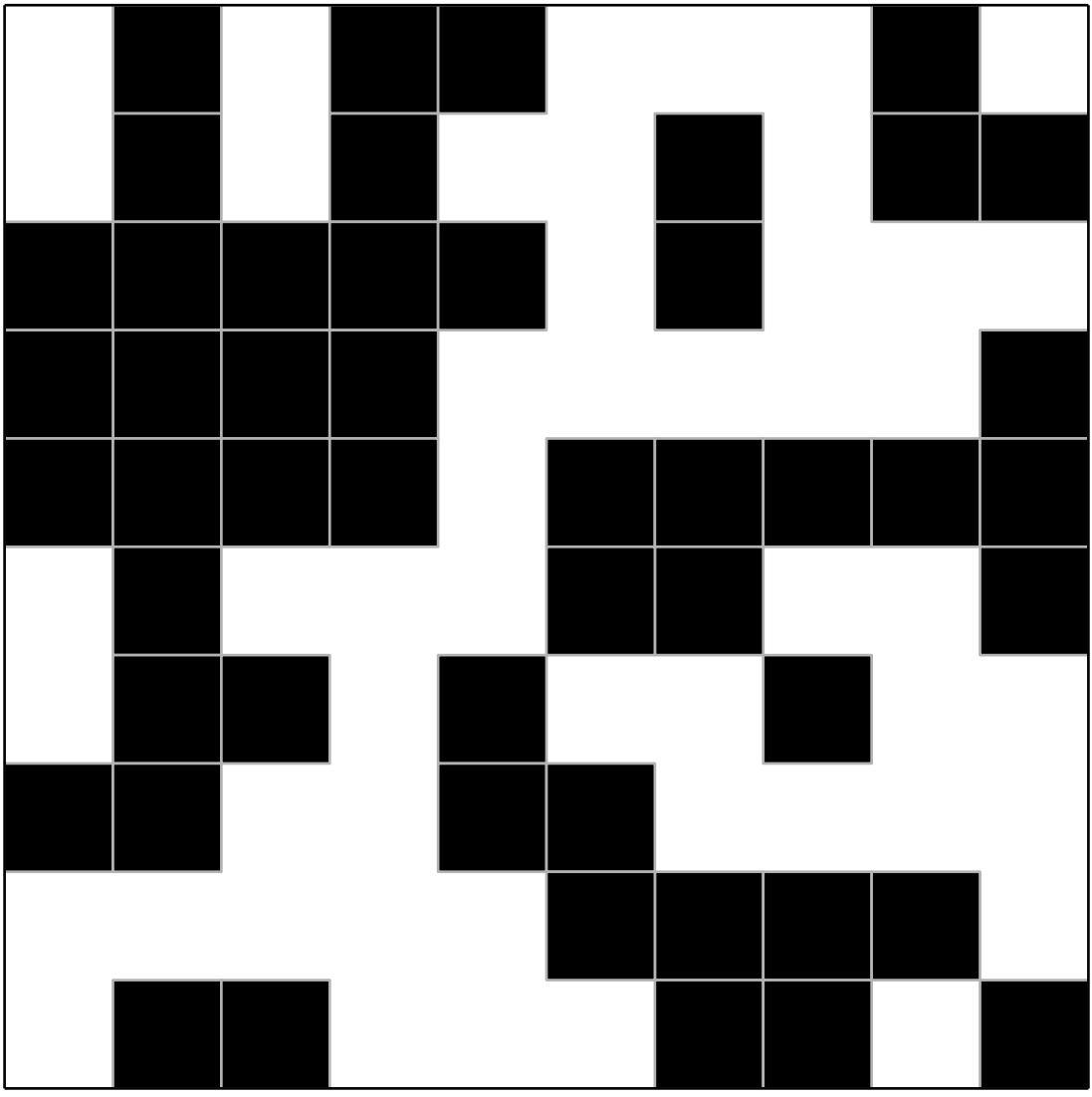


lib3_chemequ-06 10x10 (50) con: 5, var: 5



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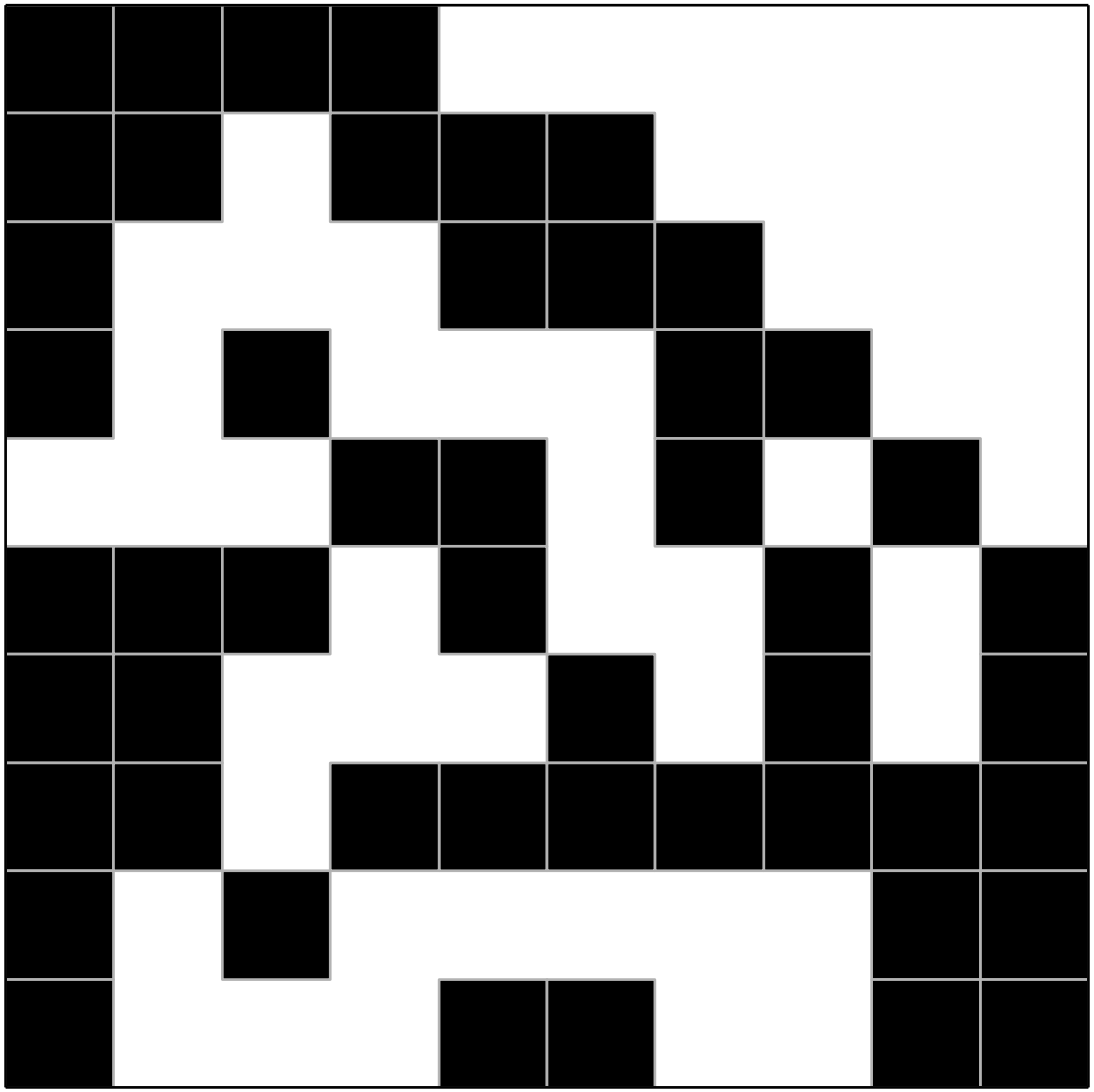

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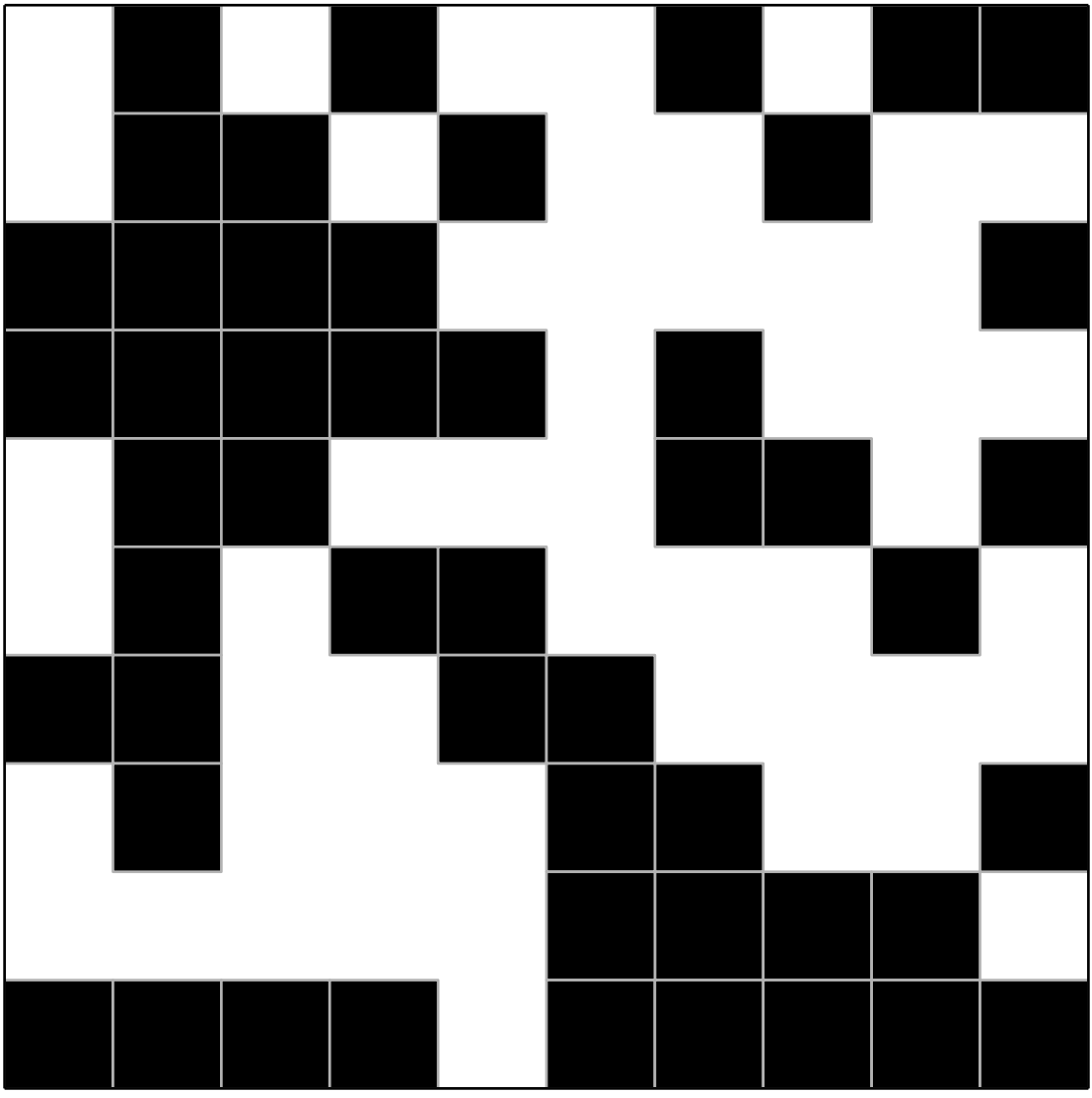

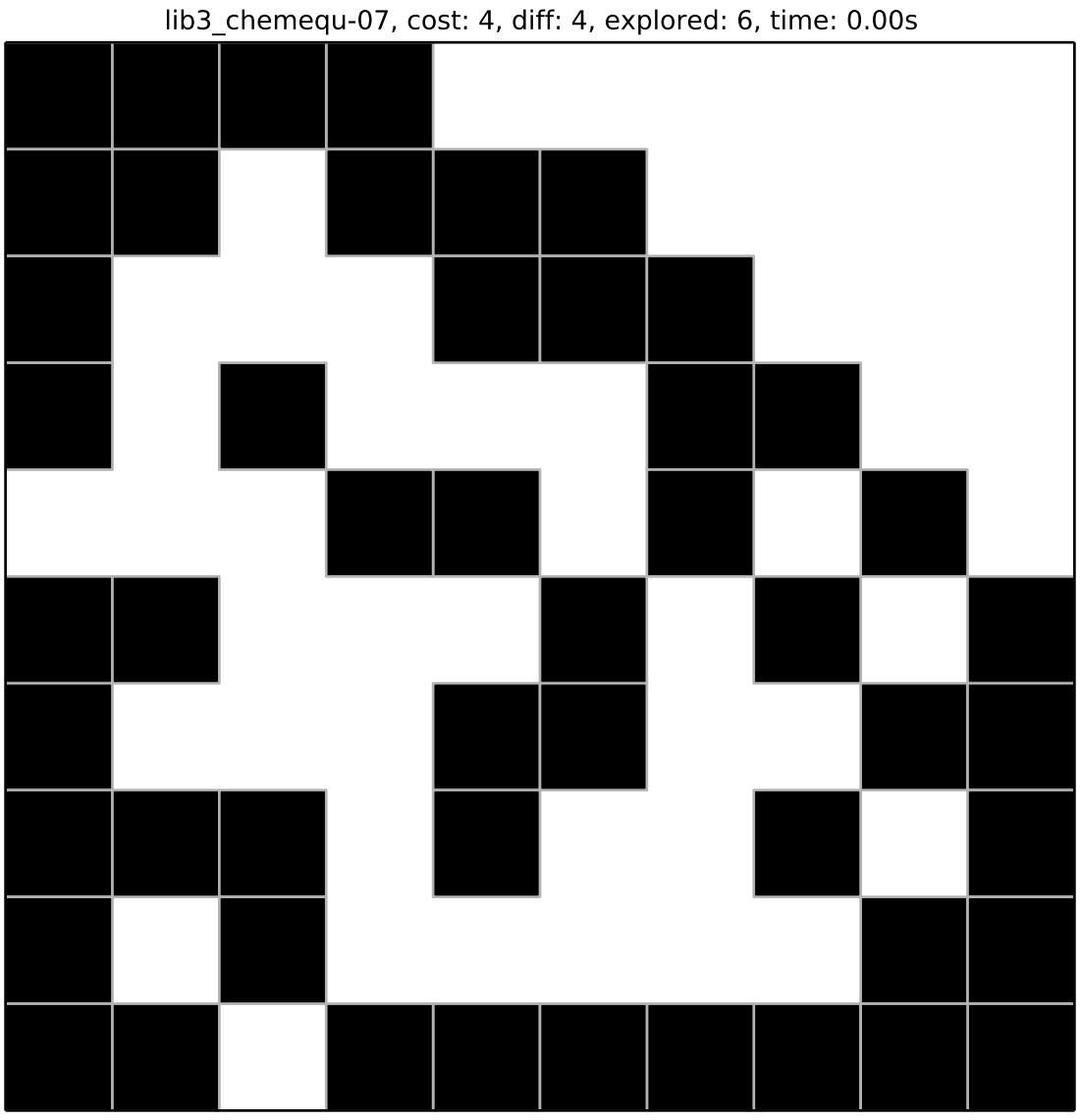
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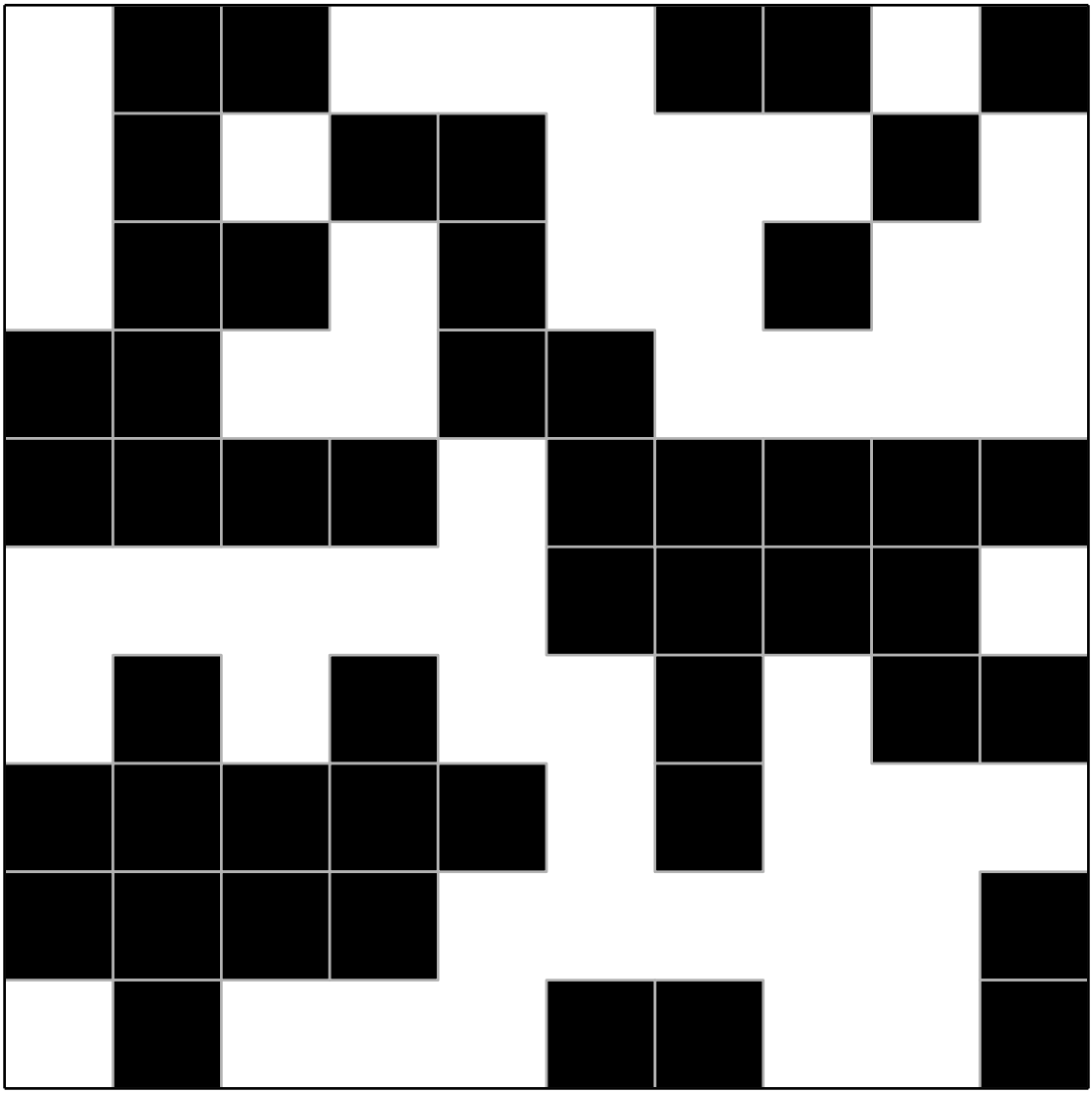

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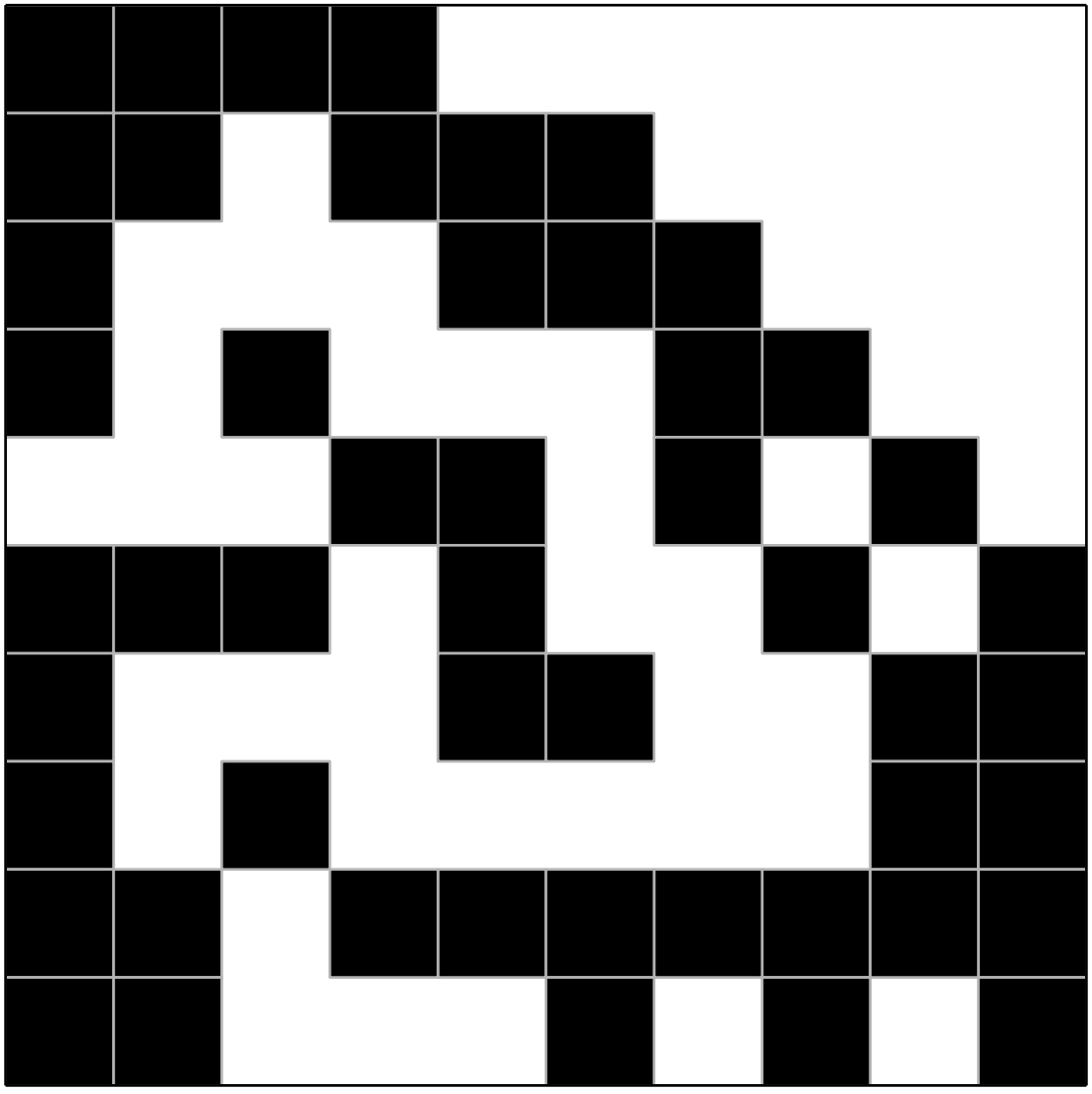
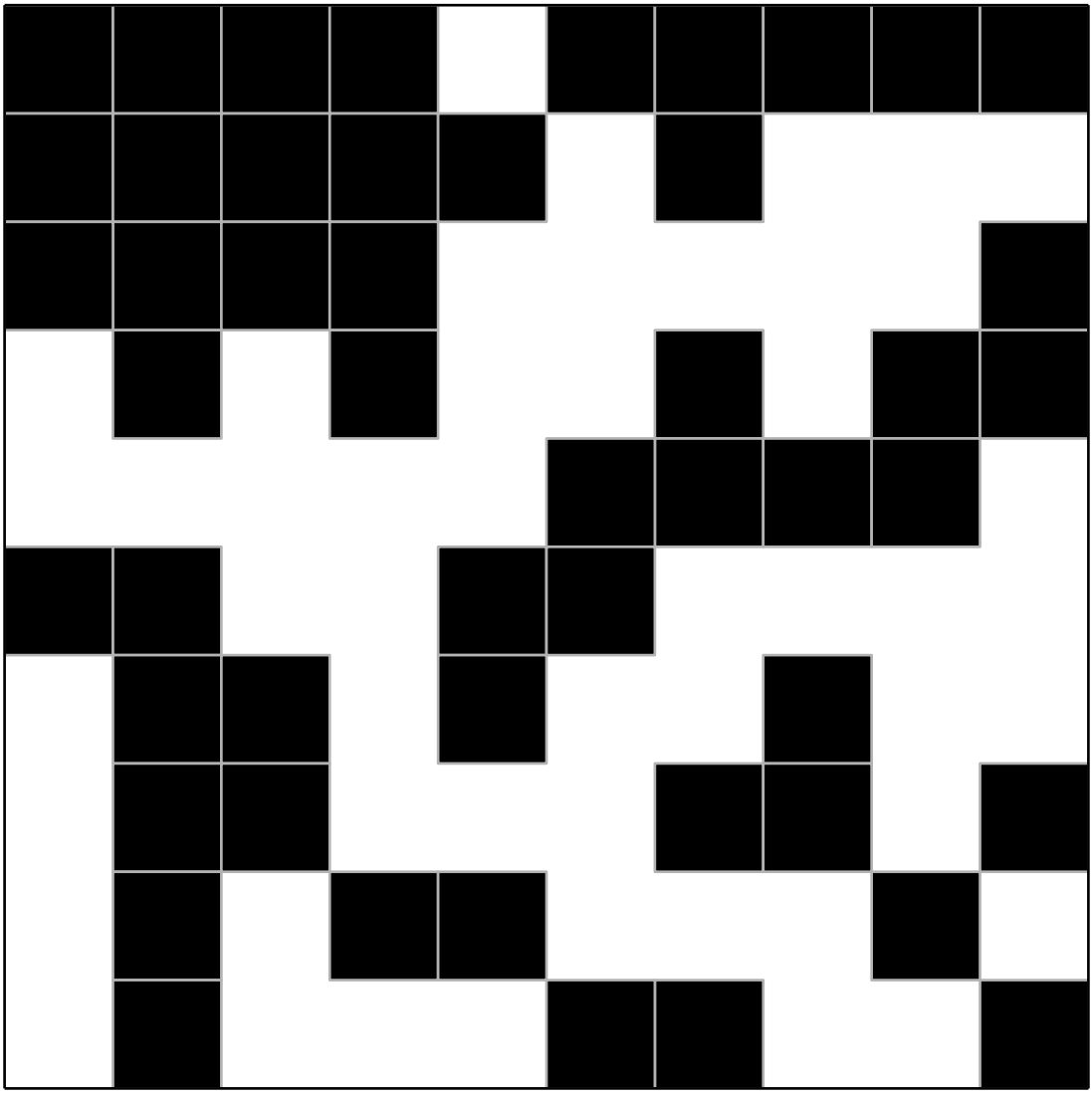
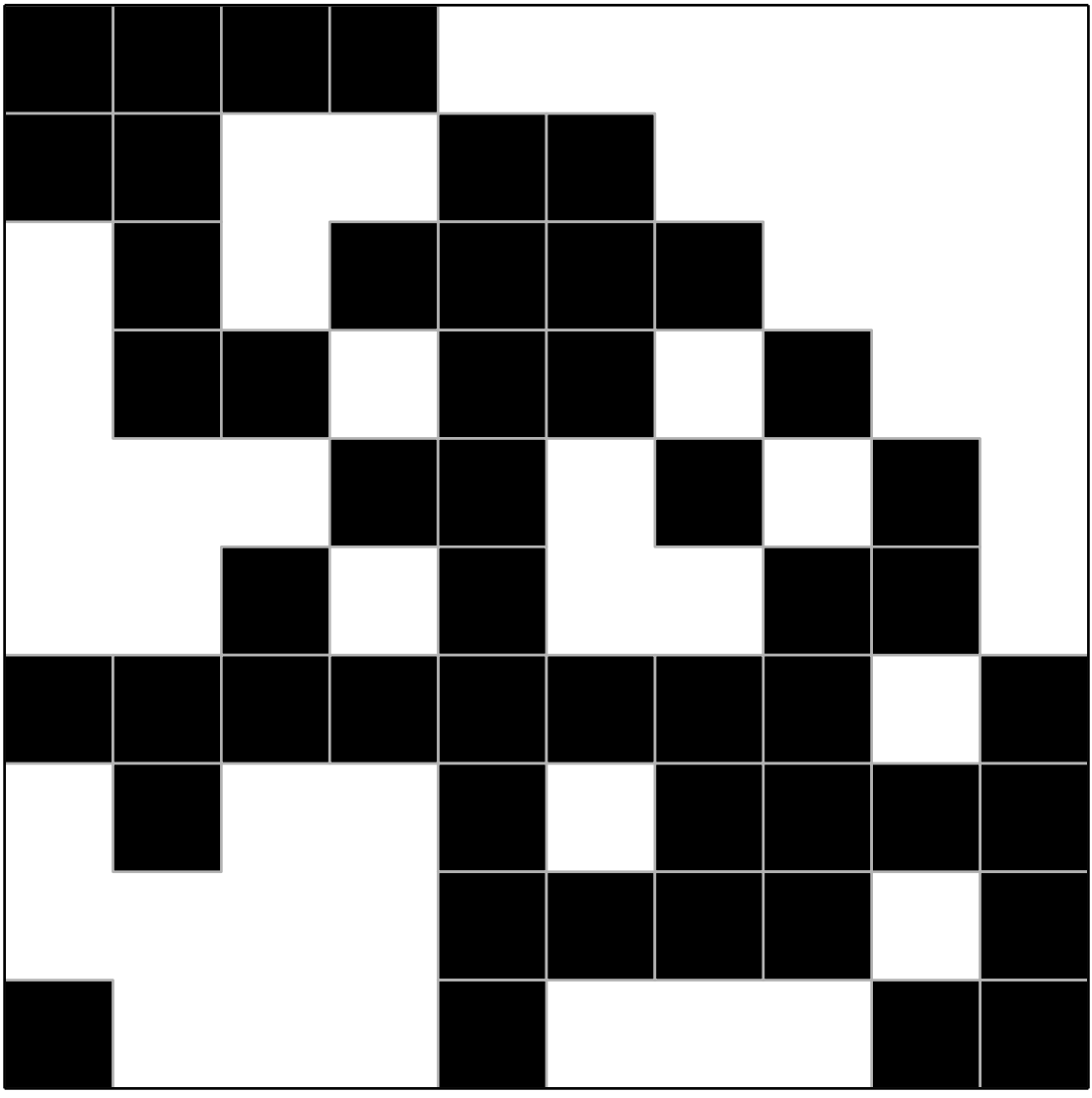


lib3_chemequ-09 10x10 (50) con: 5, var: 5

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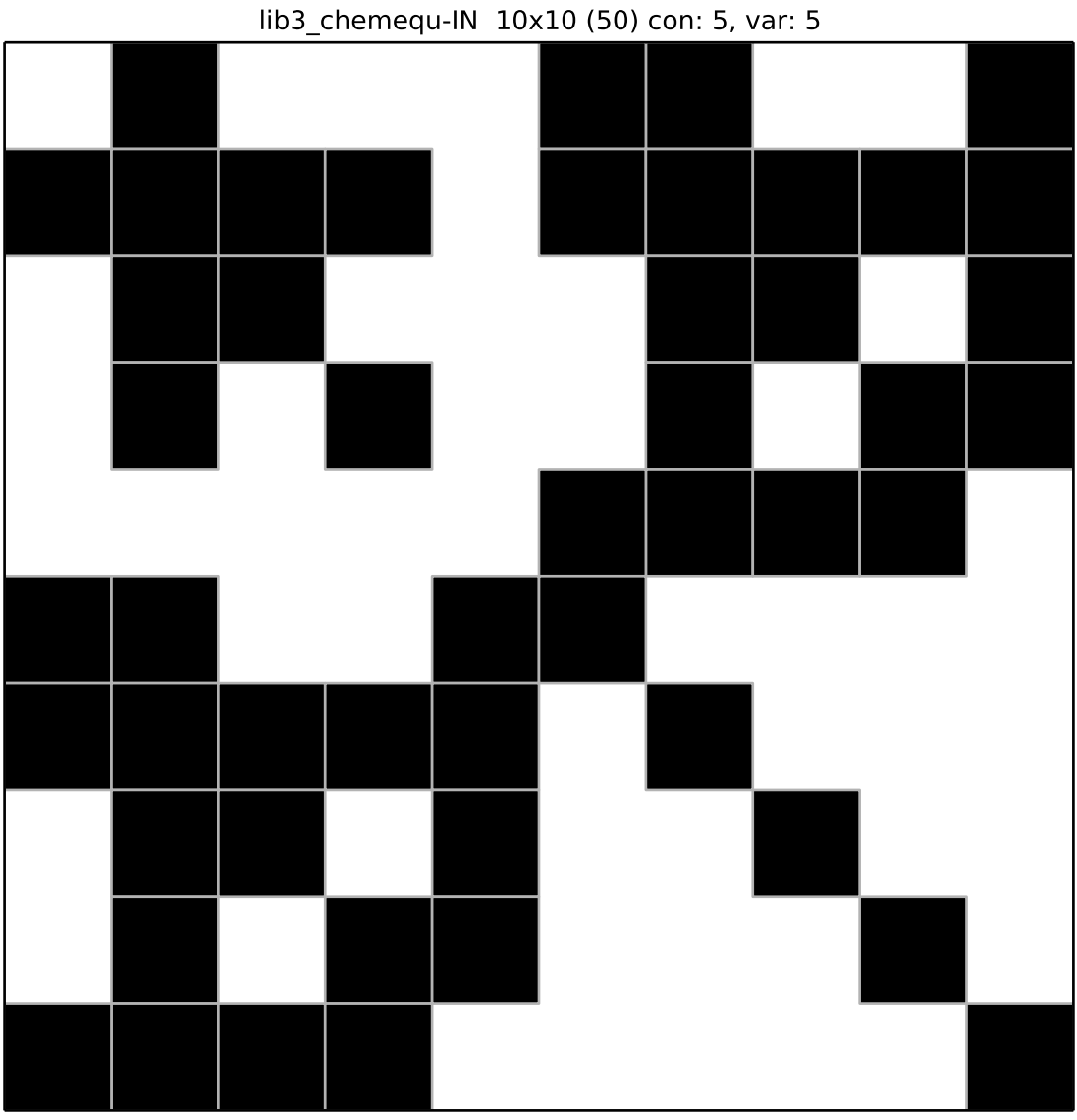
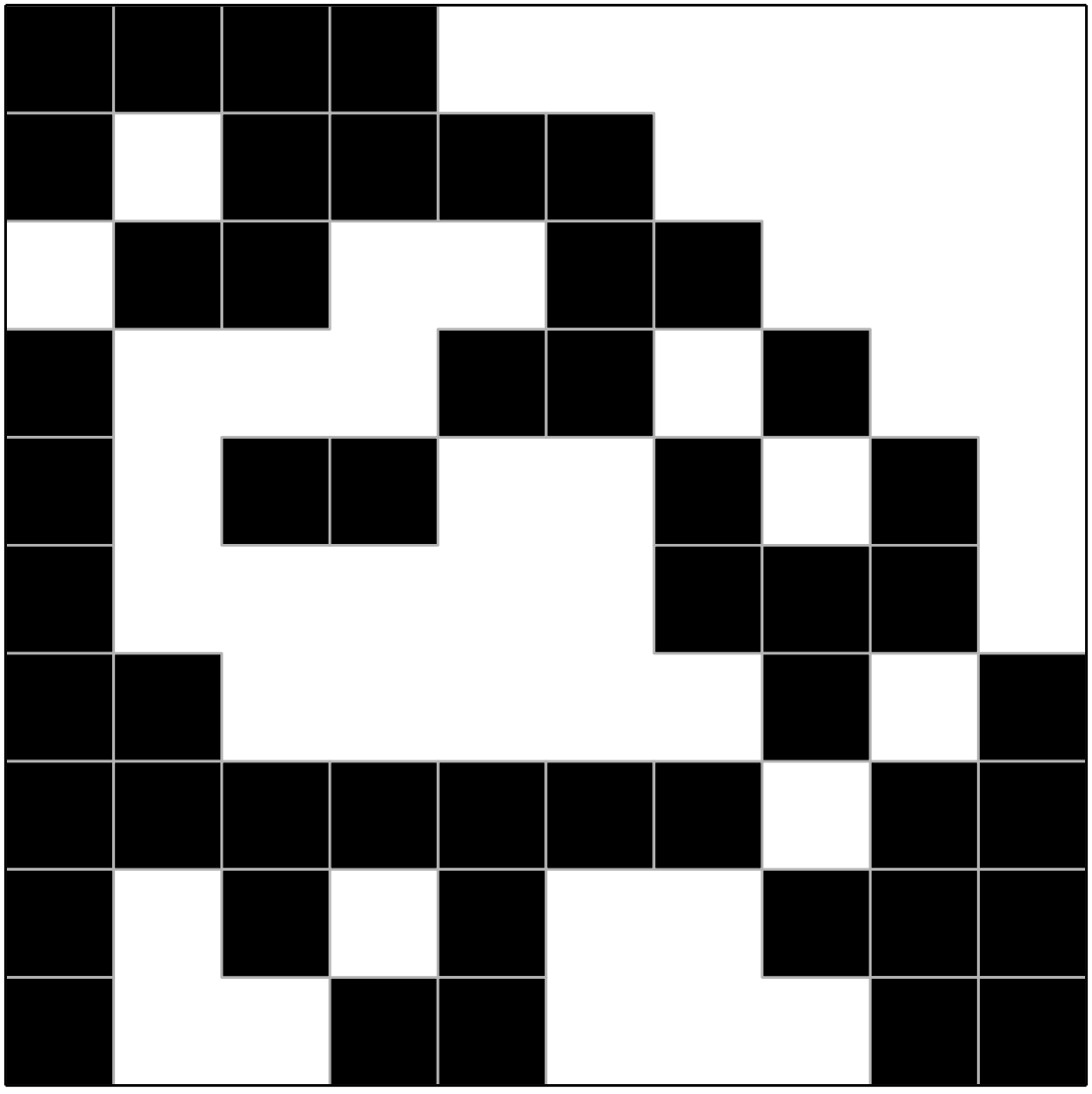

lib3_chemequ-IN 10x10 (50) con: 5, var: 5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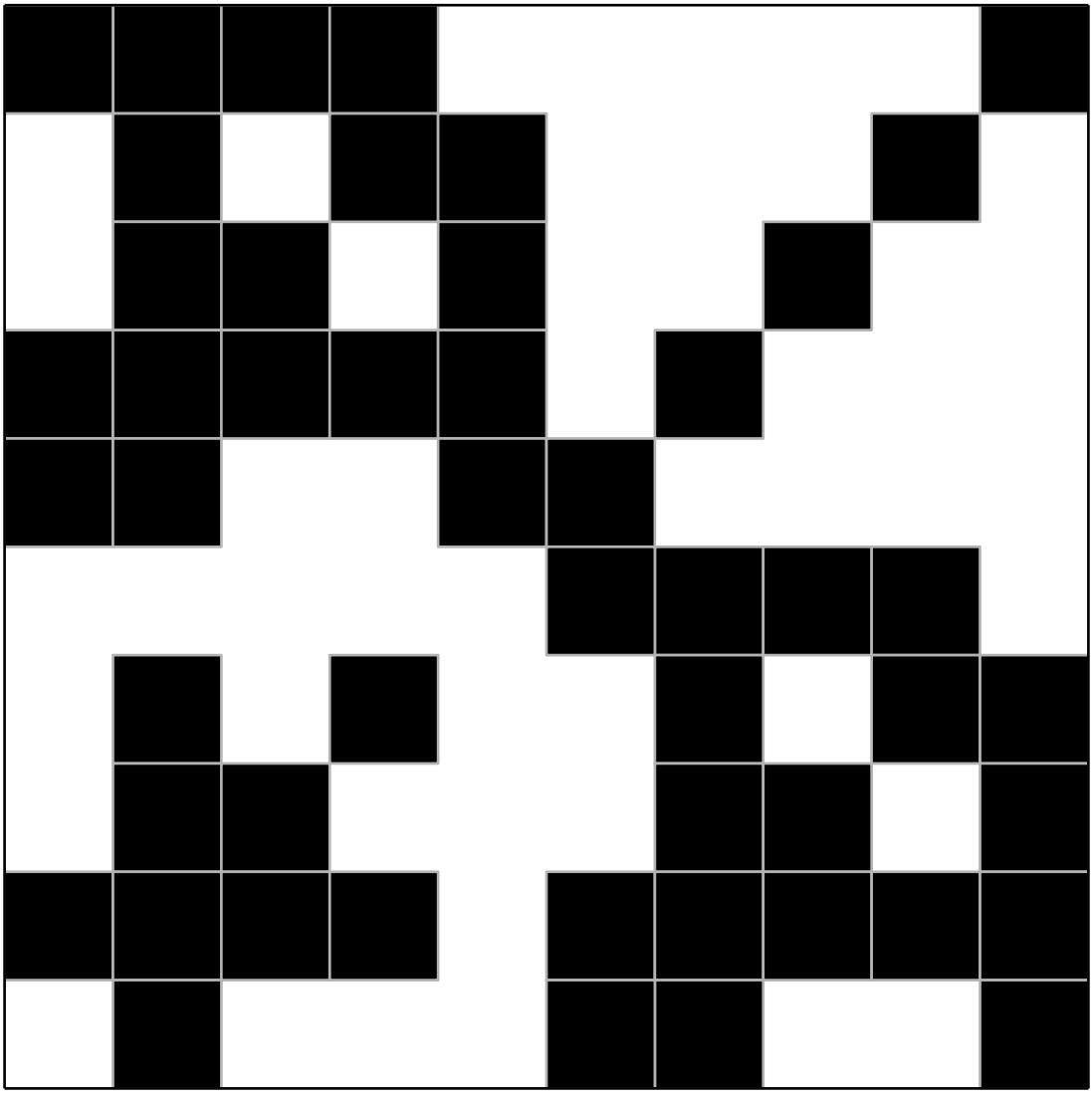
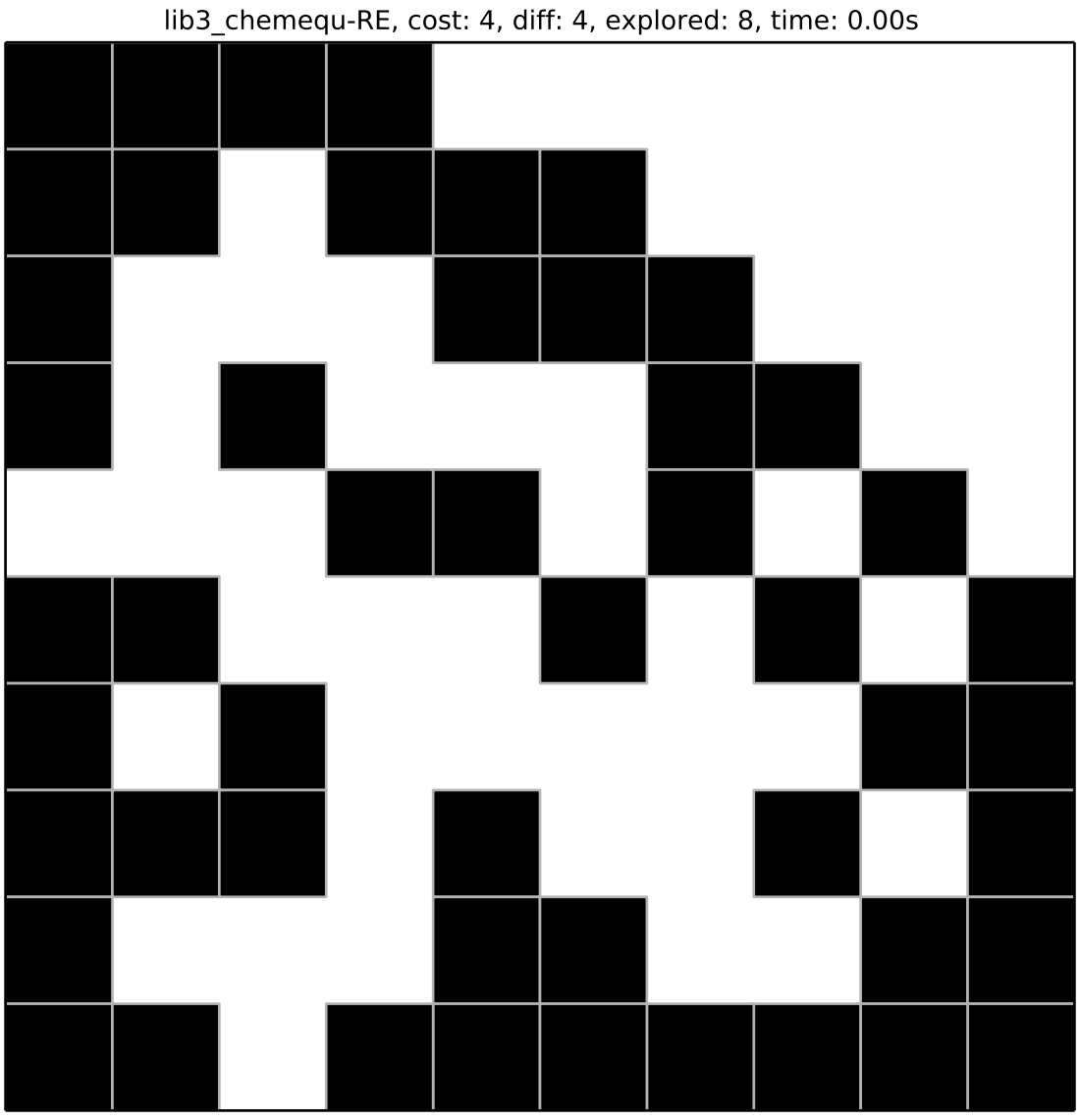
lib3_chemequ-RE 10x10 (50) con: 5, var: 5

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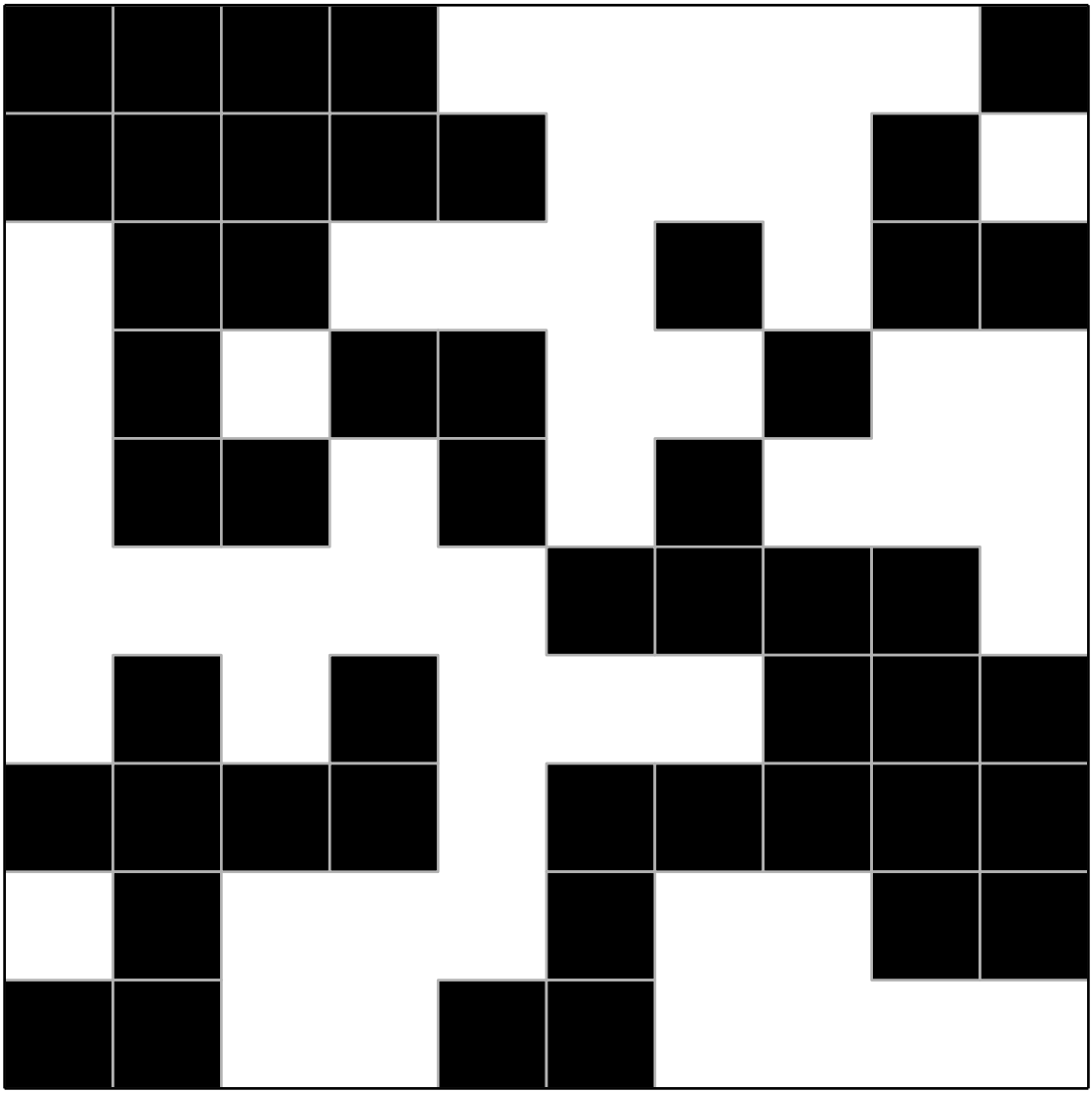
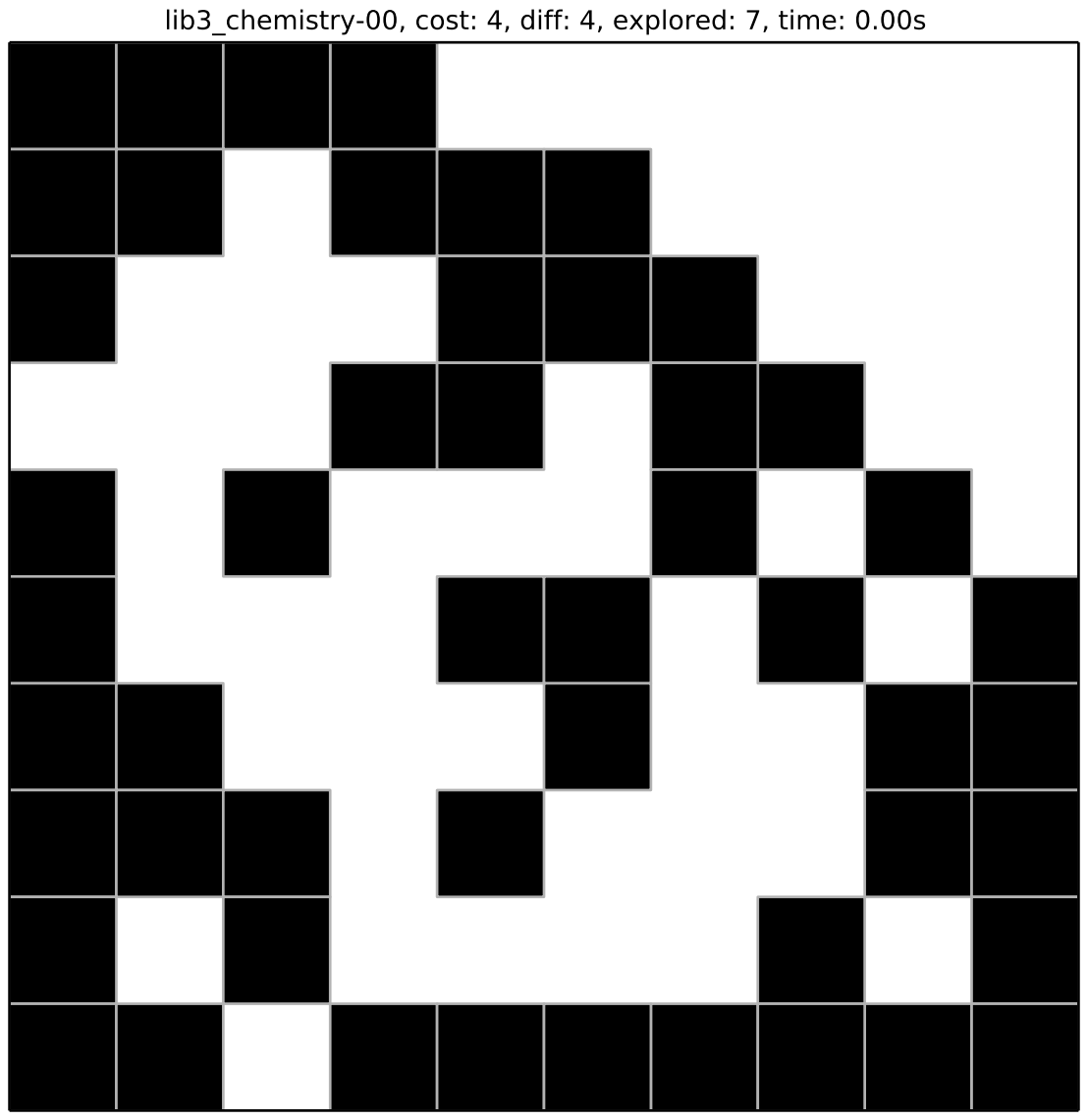
lib3_chemistry-00 10x10 (50) con: 5, var: 5

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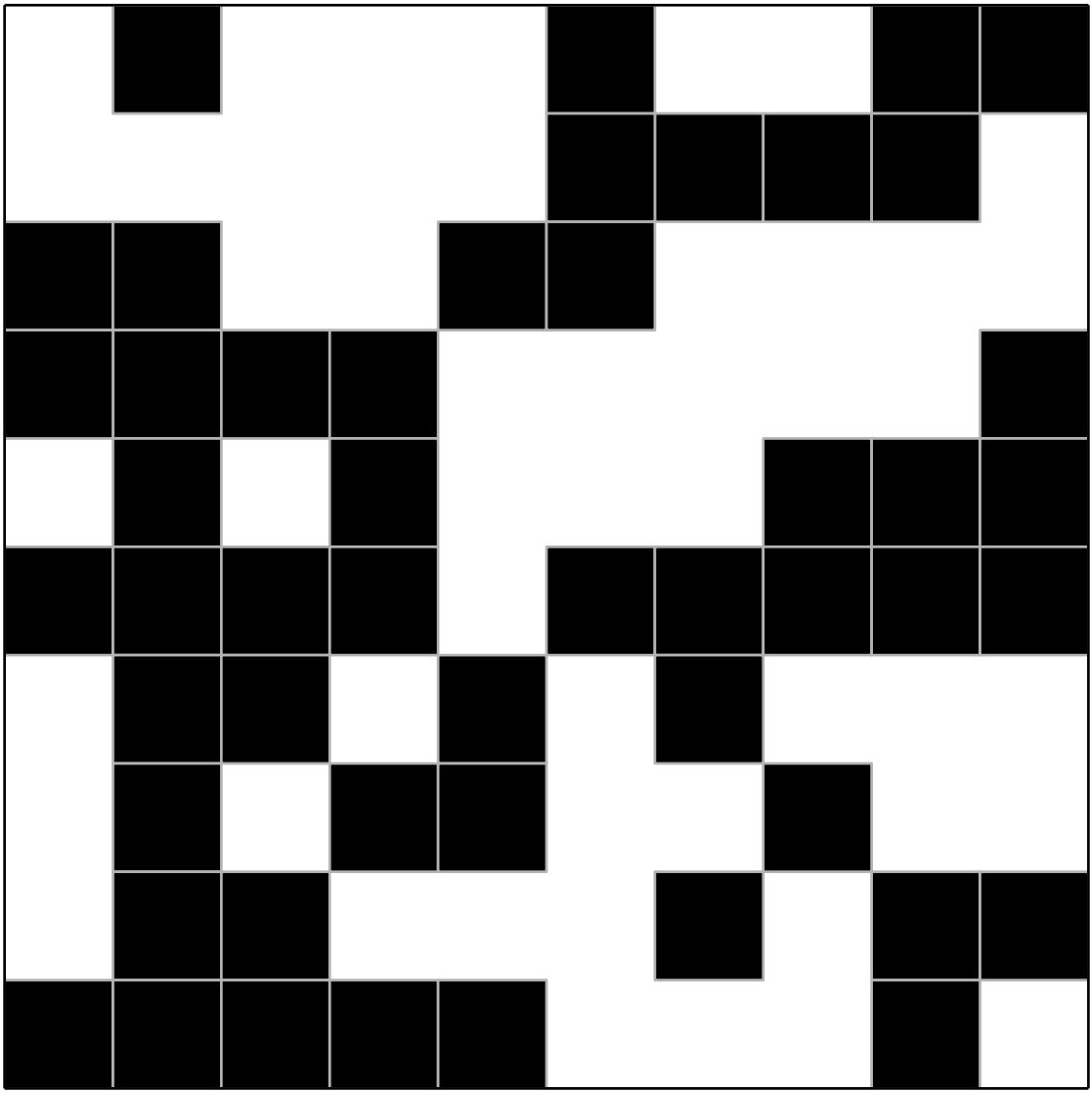
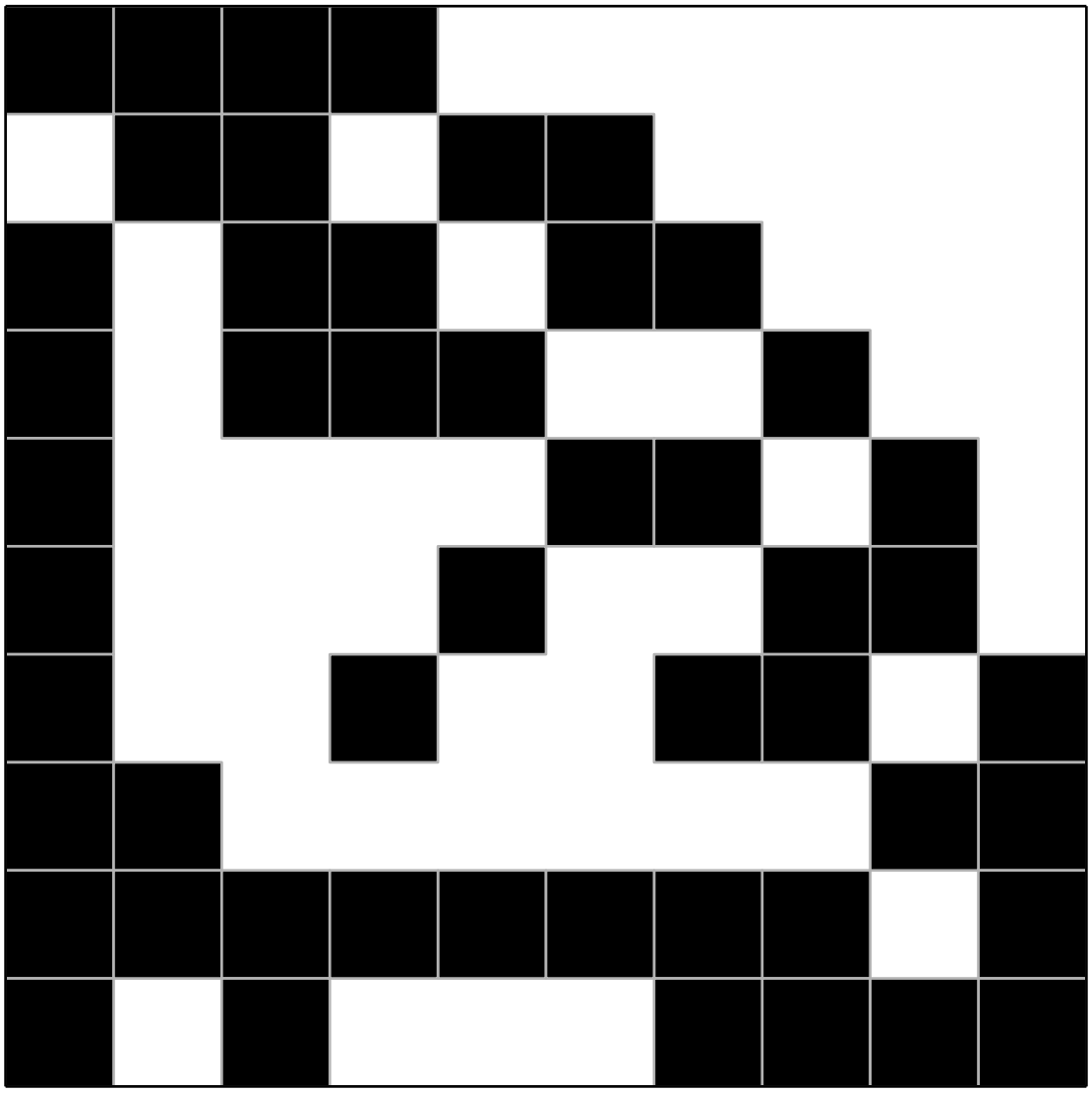
lib3_chemistry-01 10x10 (50) con: 5, var: 5

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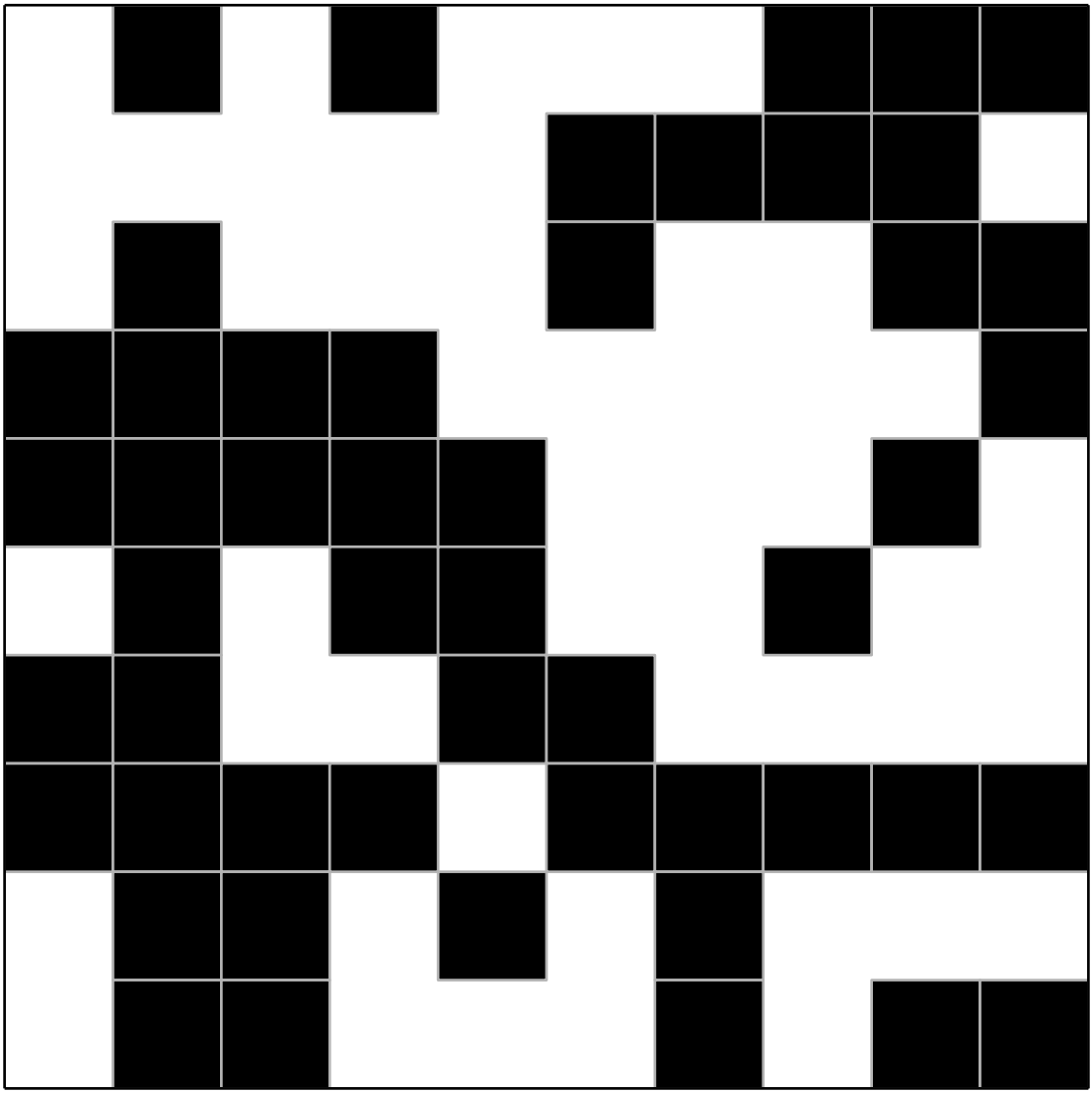
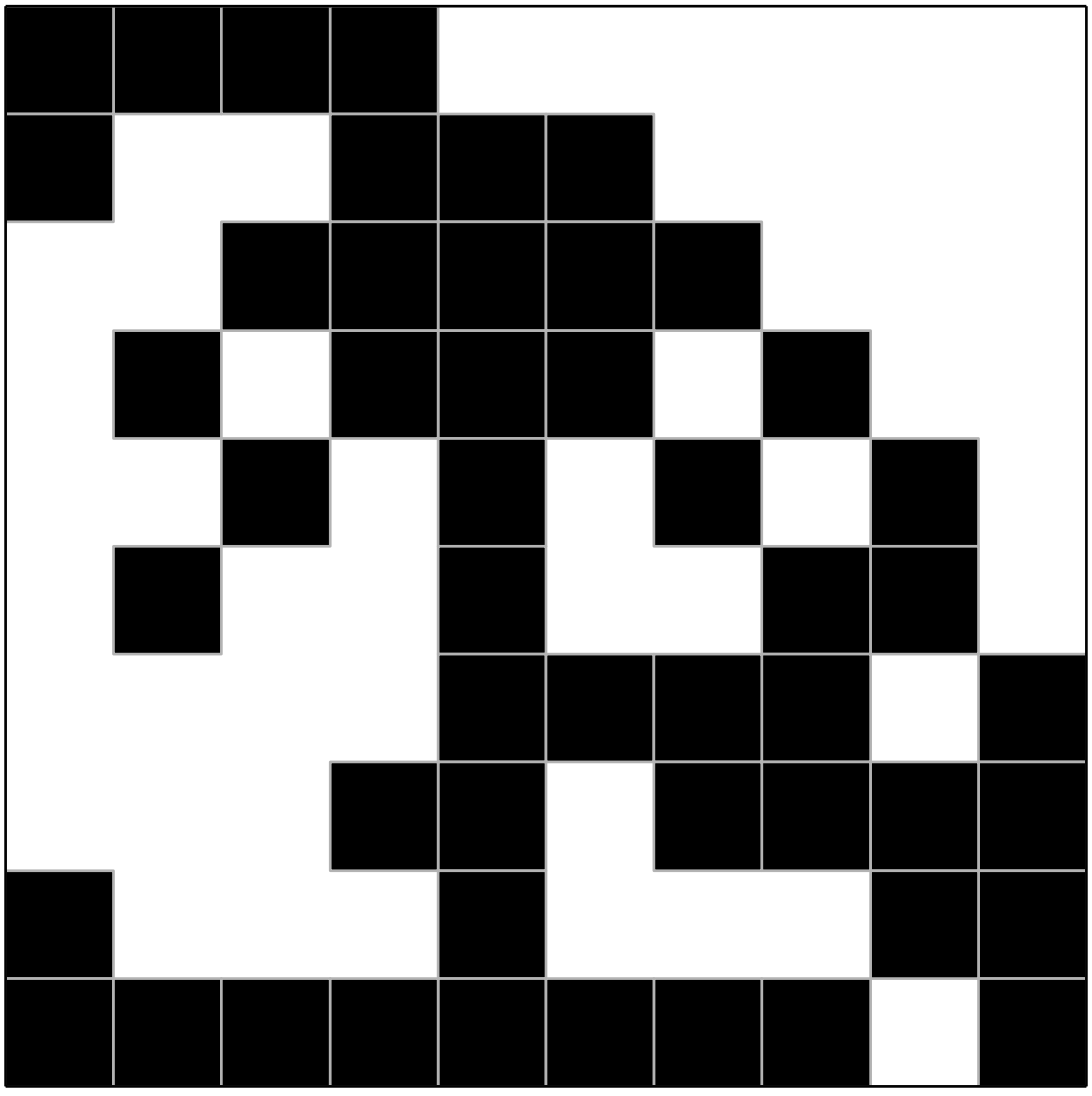
lib3_chemistry-02 10x10 (50) con: 5, var: 5

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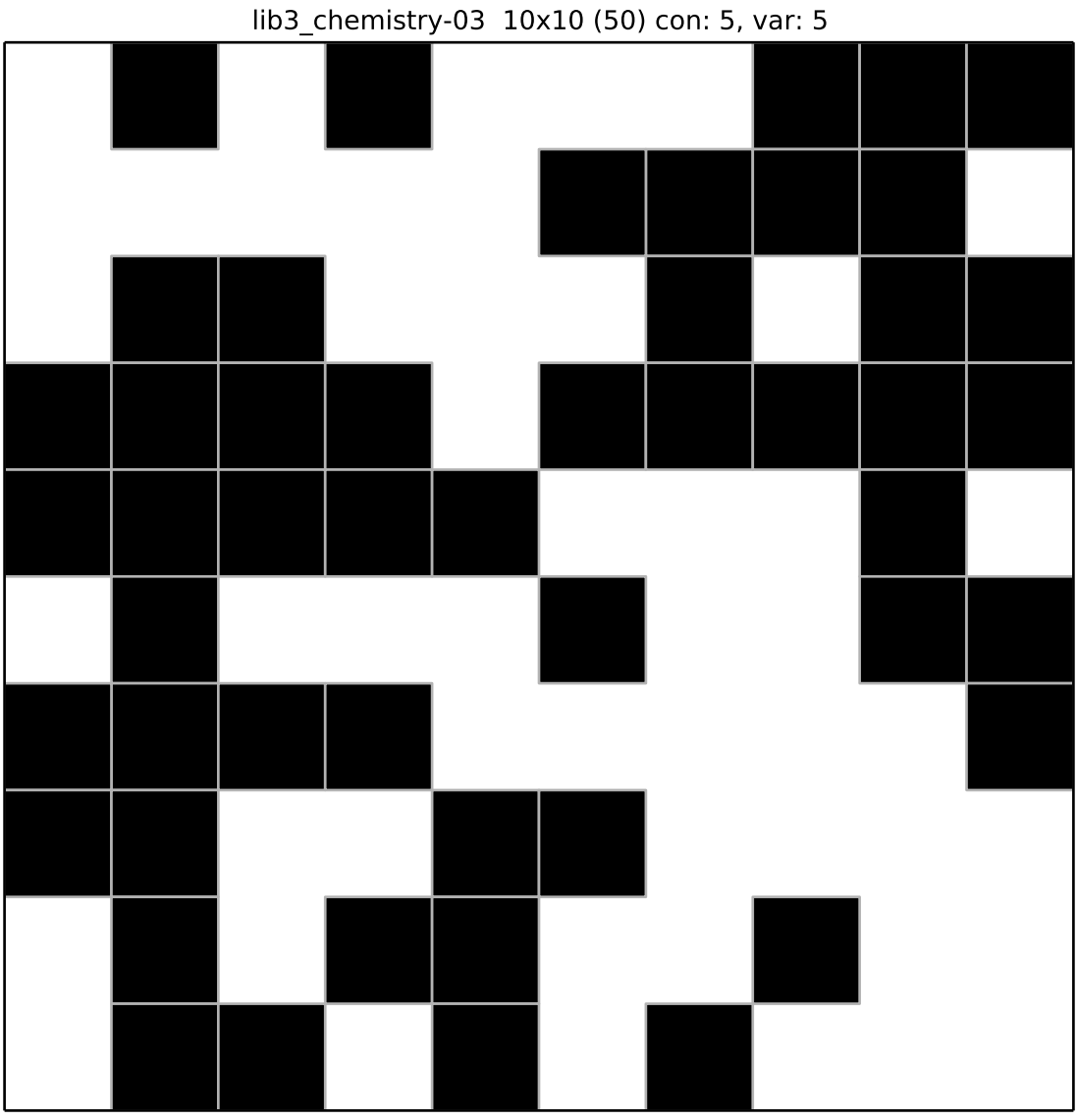
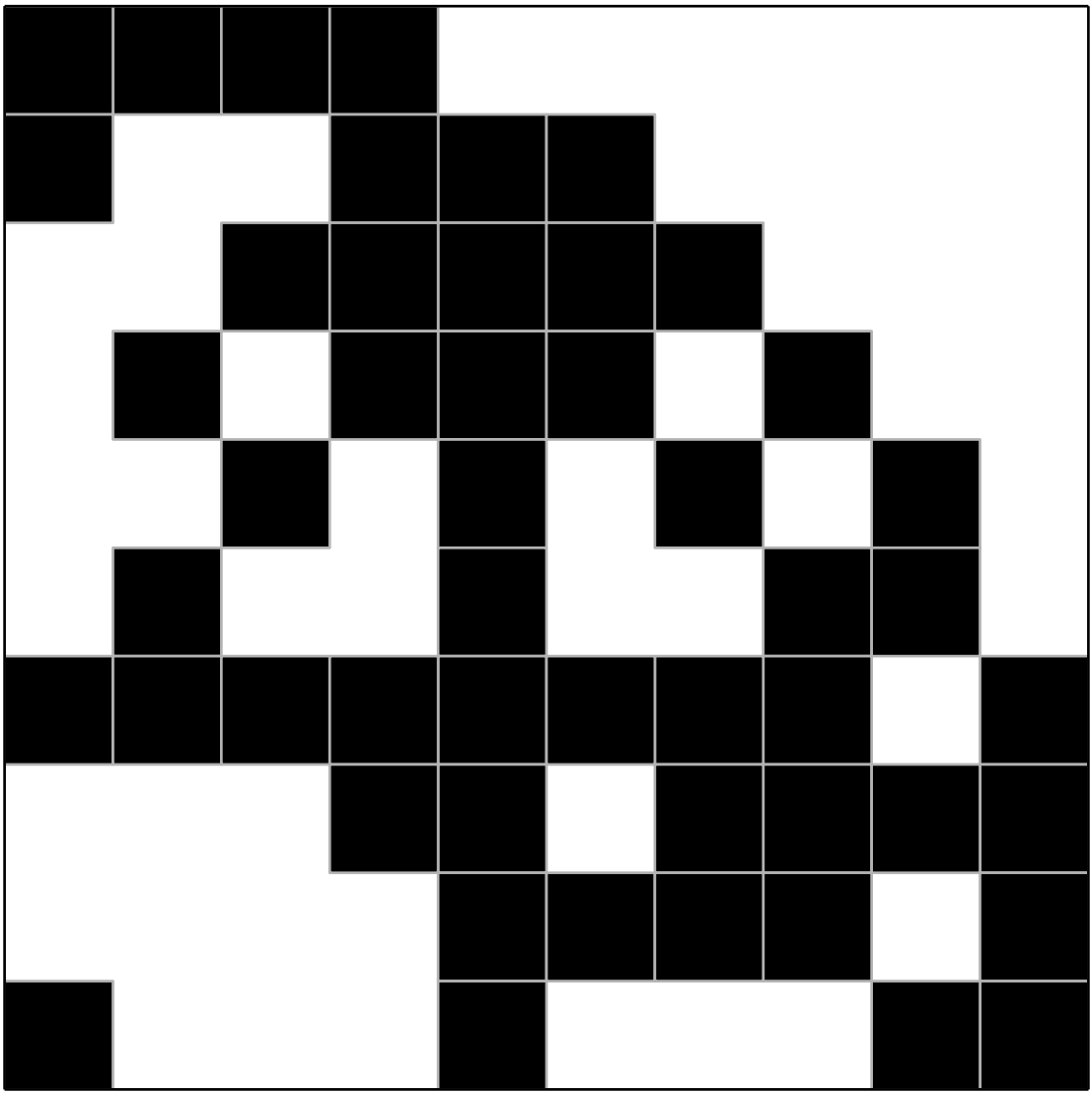

lib3_chemistry-03 10x10 (50) con: 5, var: 5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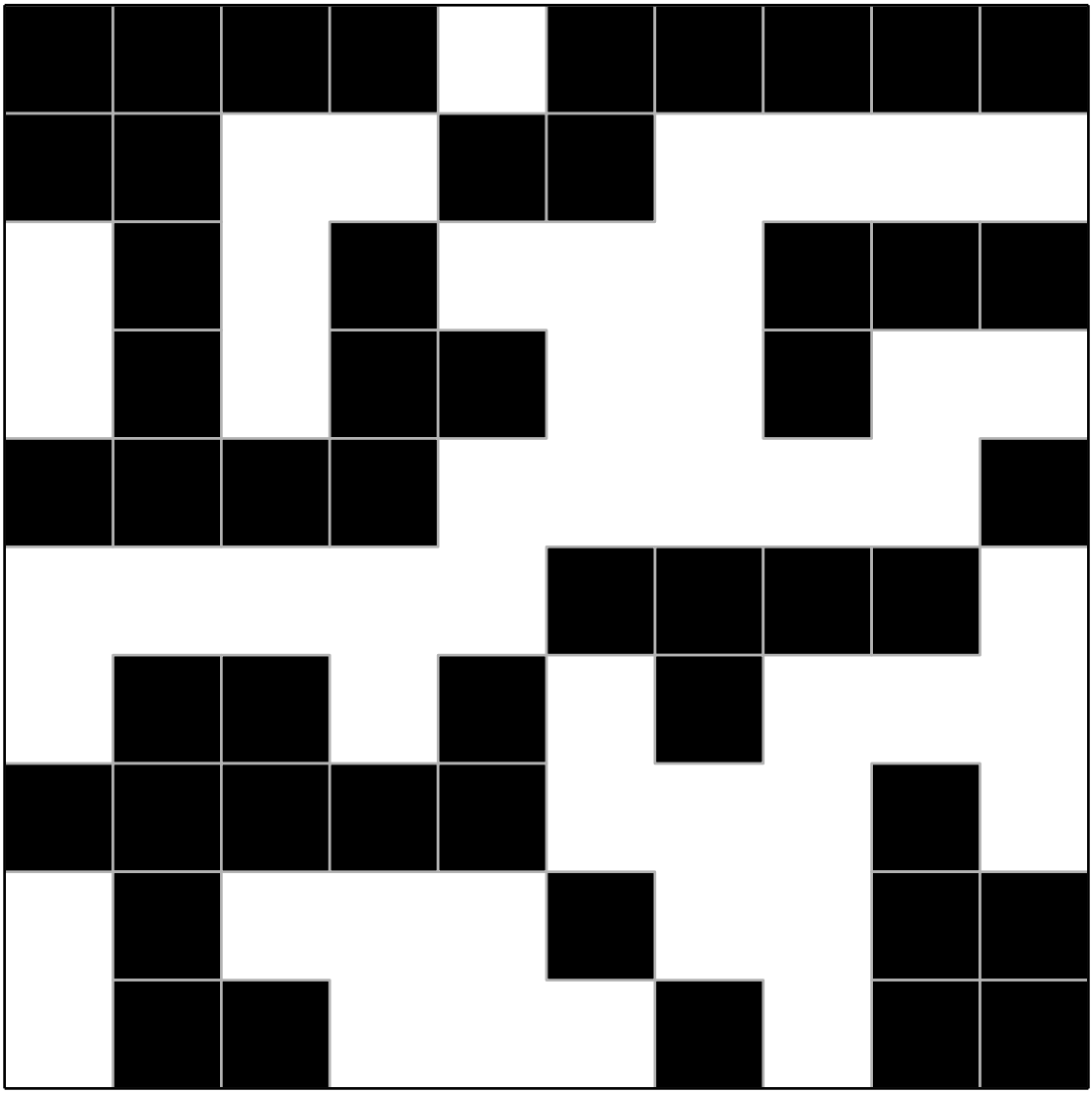
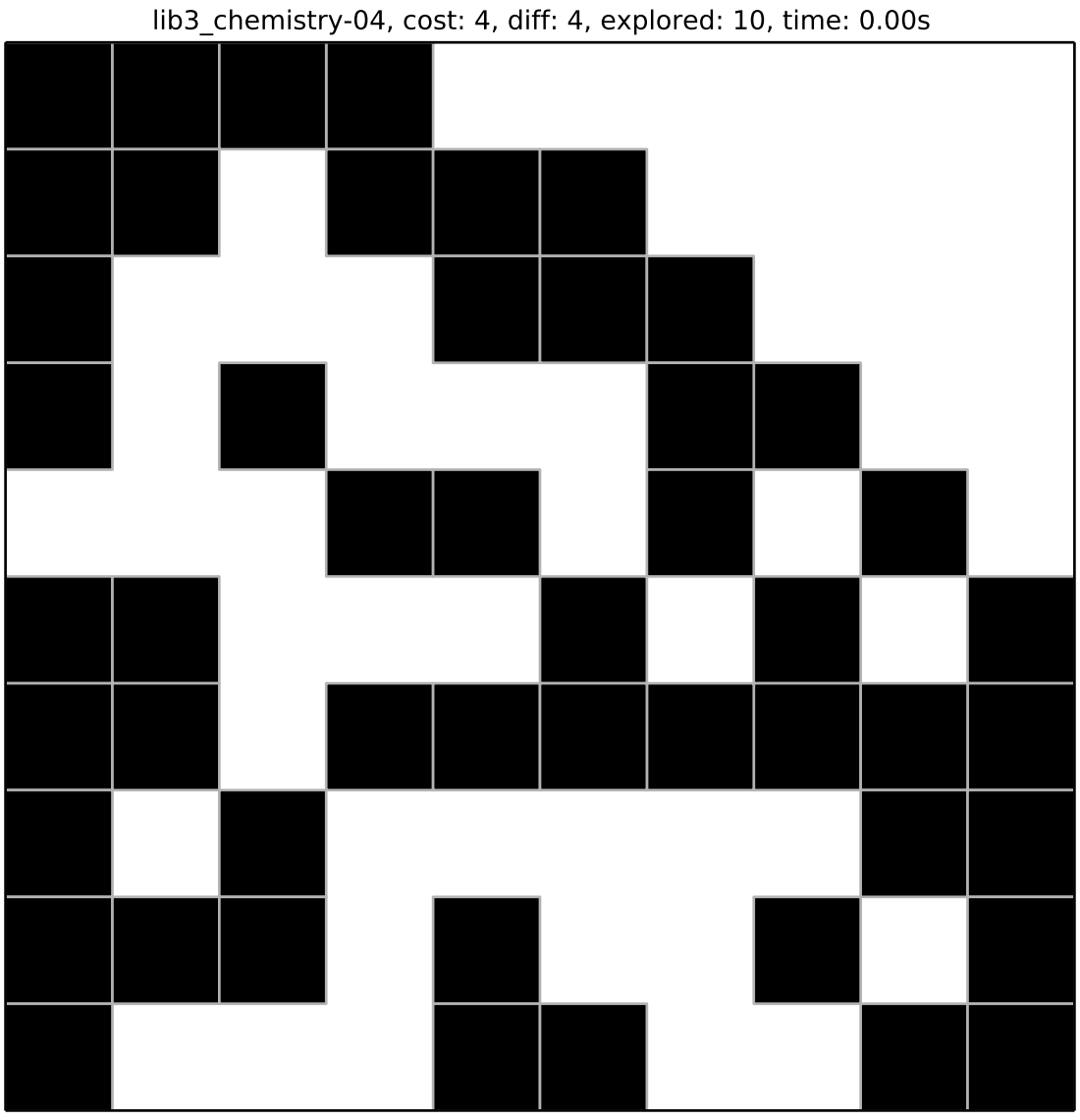
lib3_chemistry-04 10x10 (50) con: 5, var: 5

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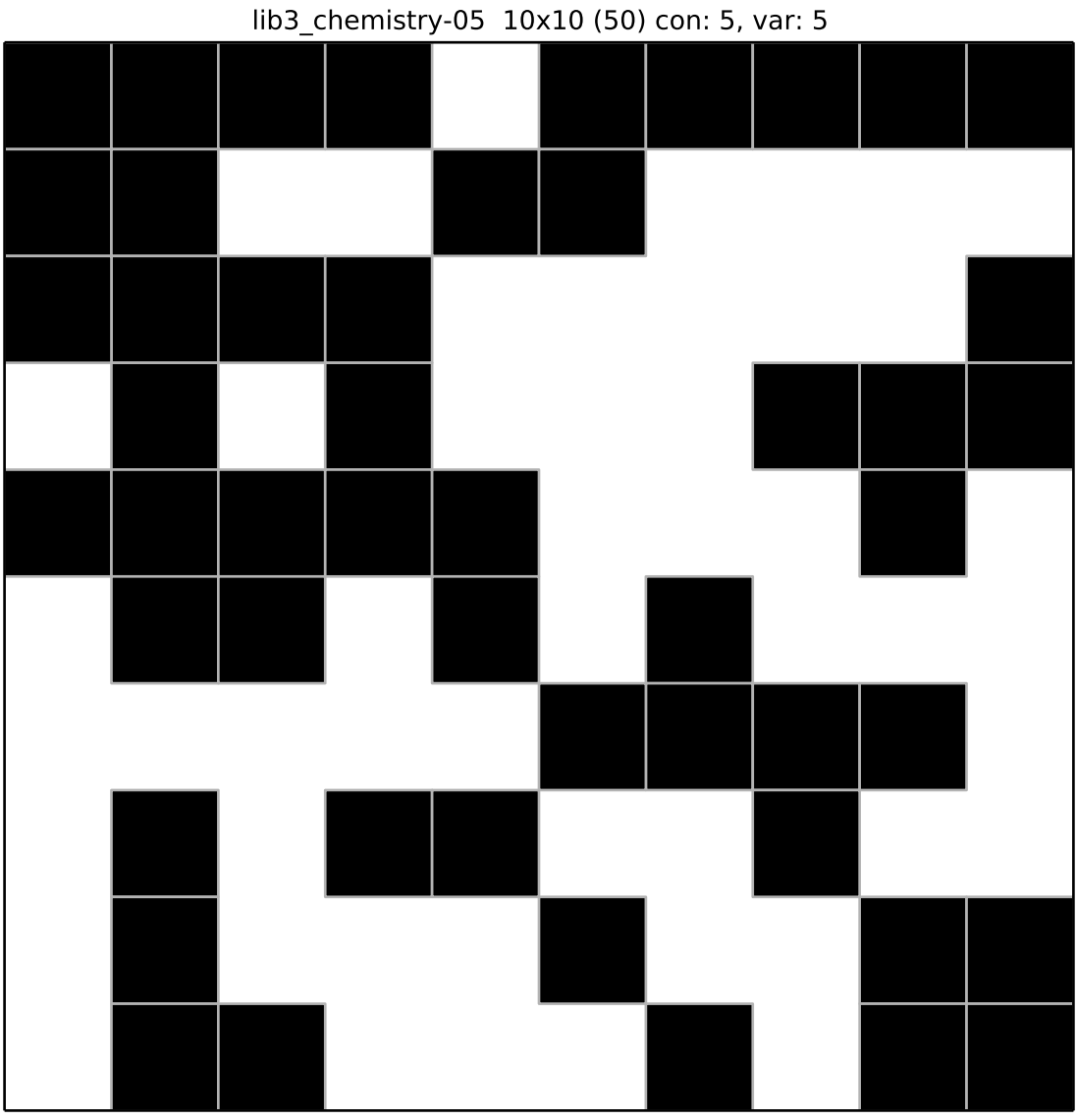
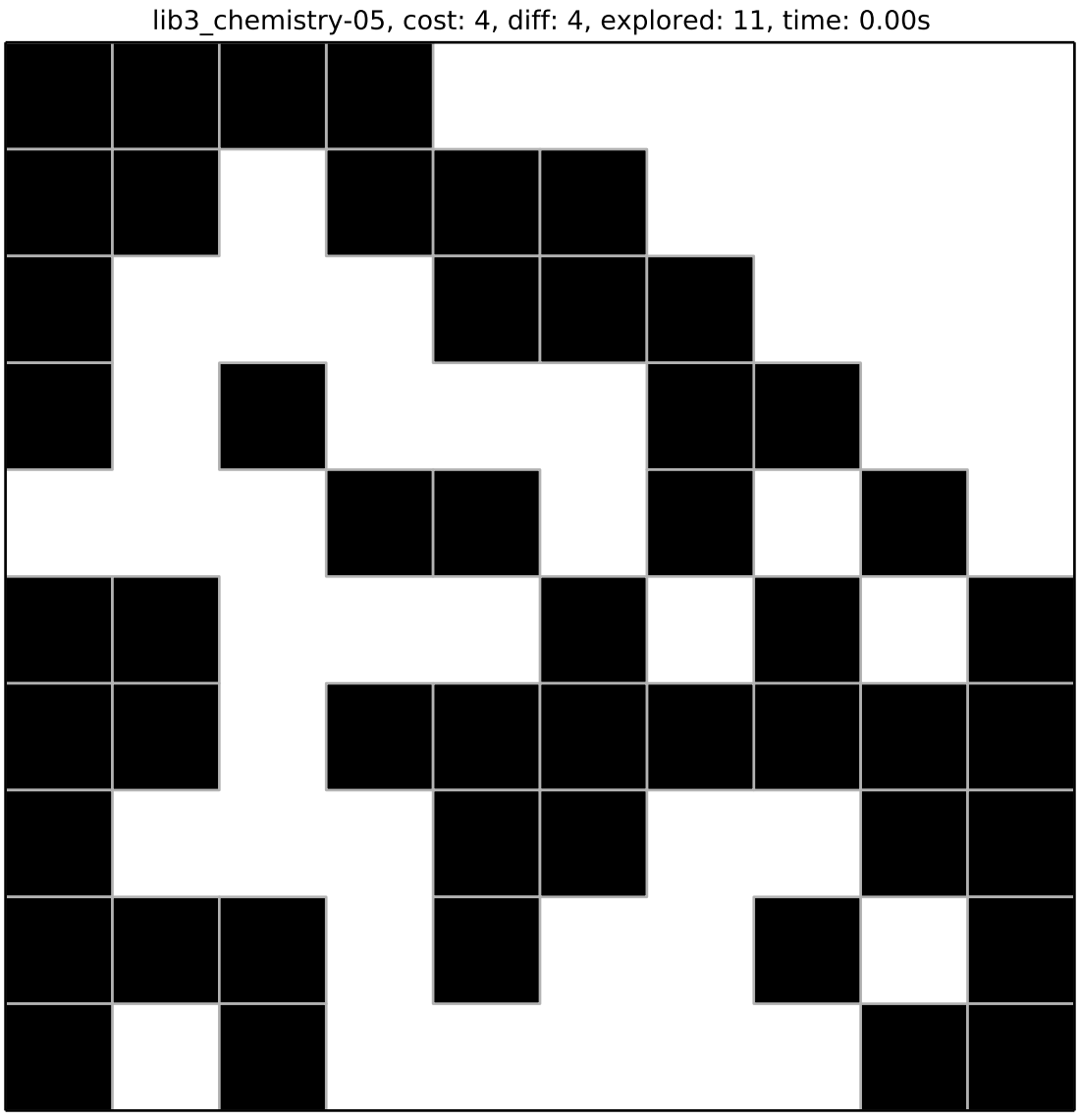

lib3_chemistry-05 10x10 (50) con: 5, var: 5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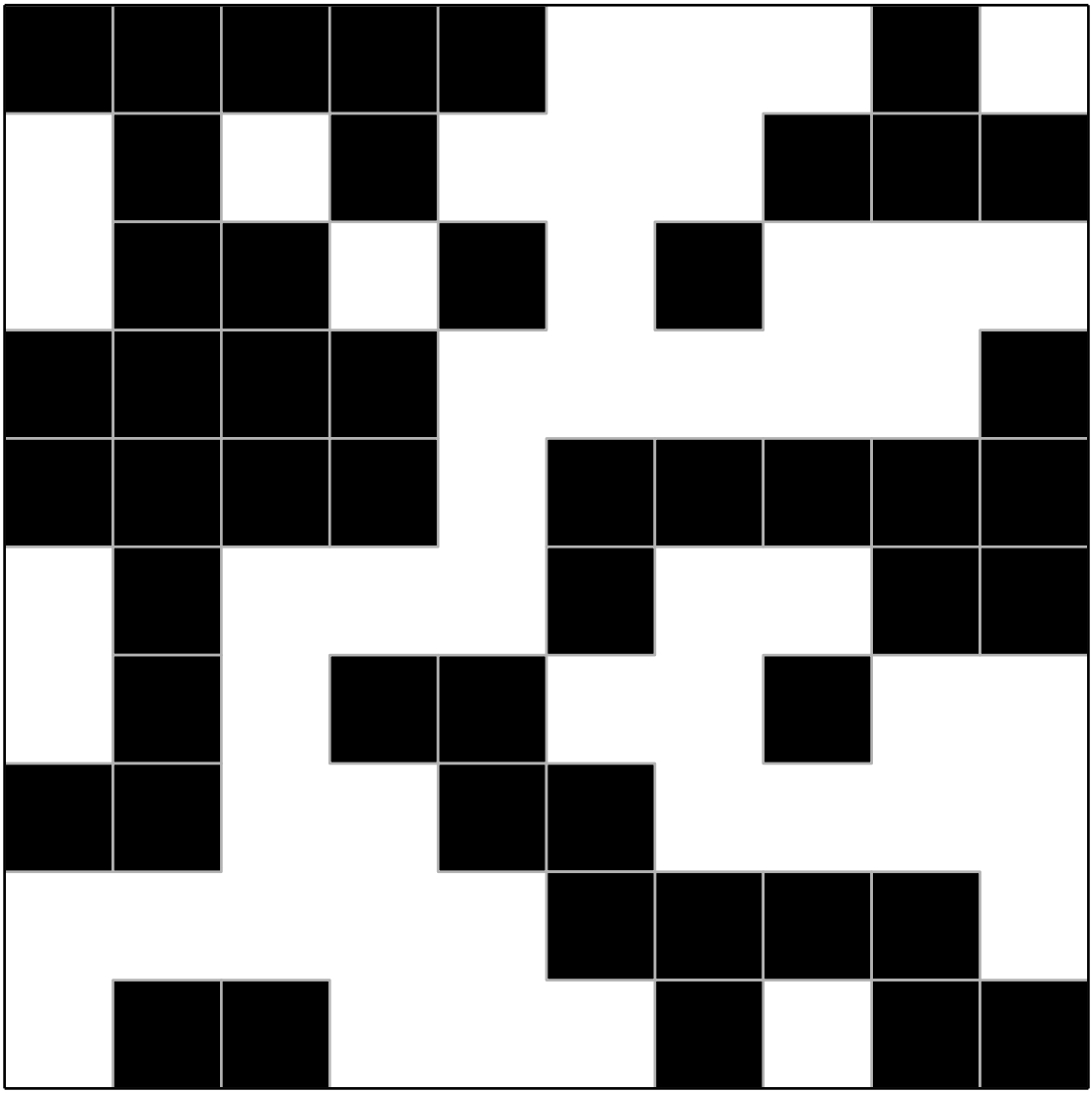
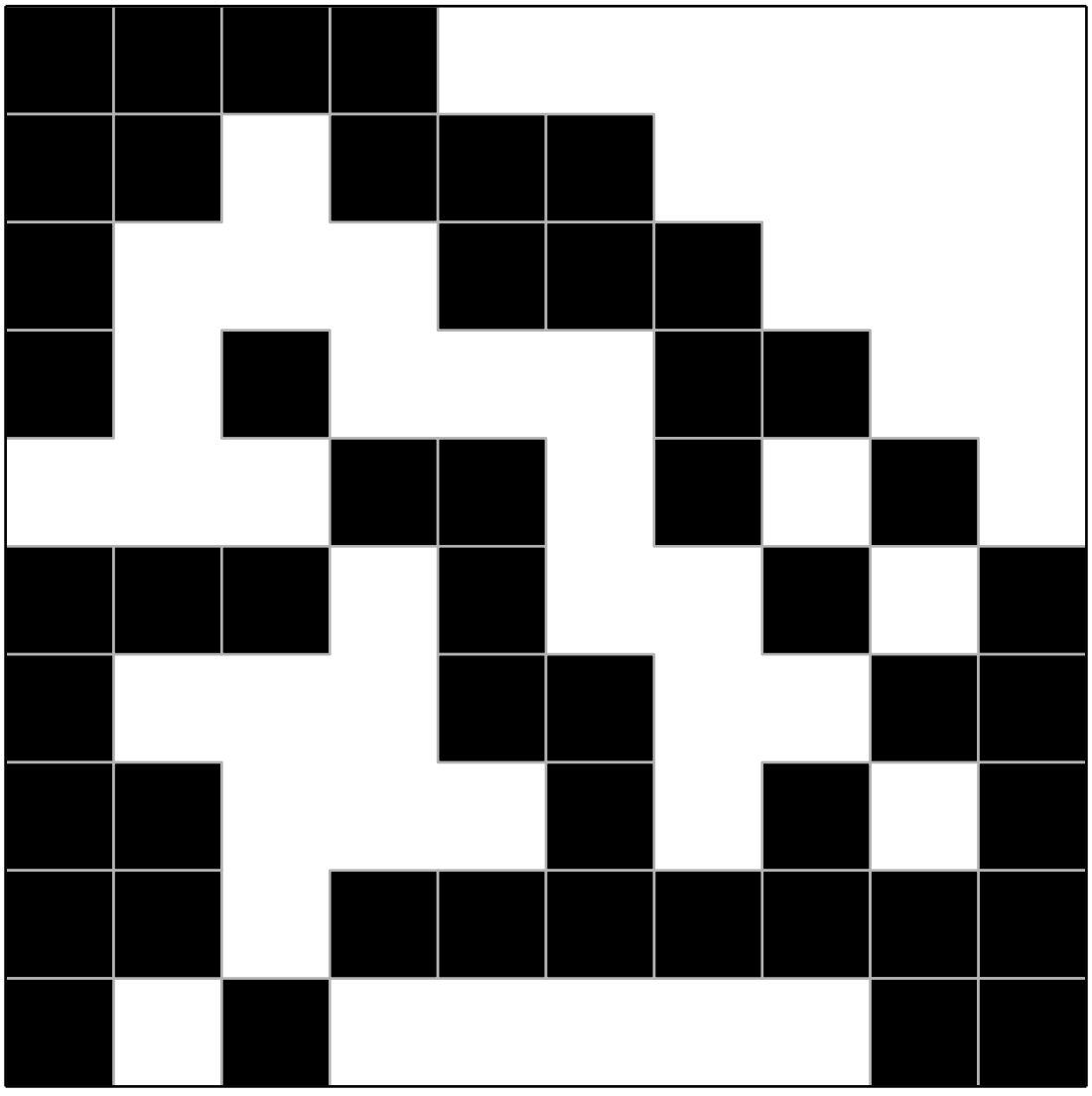
lib3_chemistry-06 10x10 (50) con: 5, var: 5

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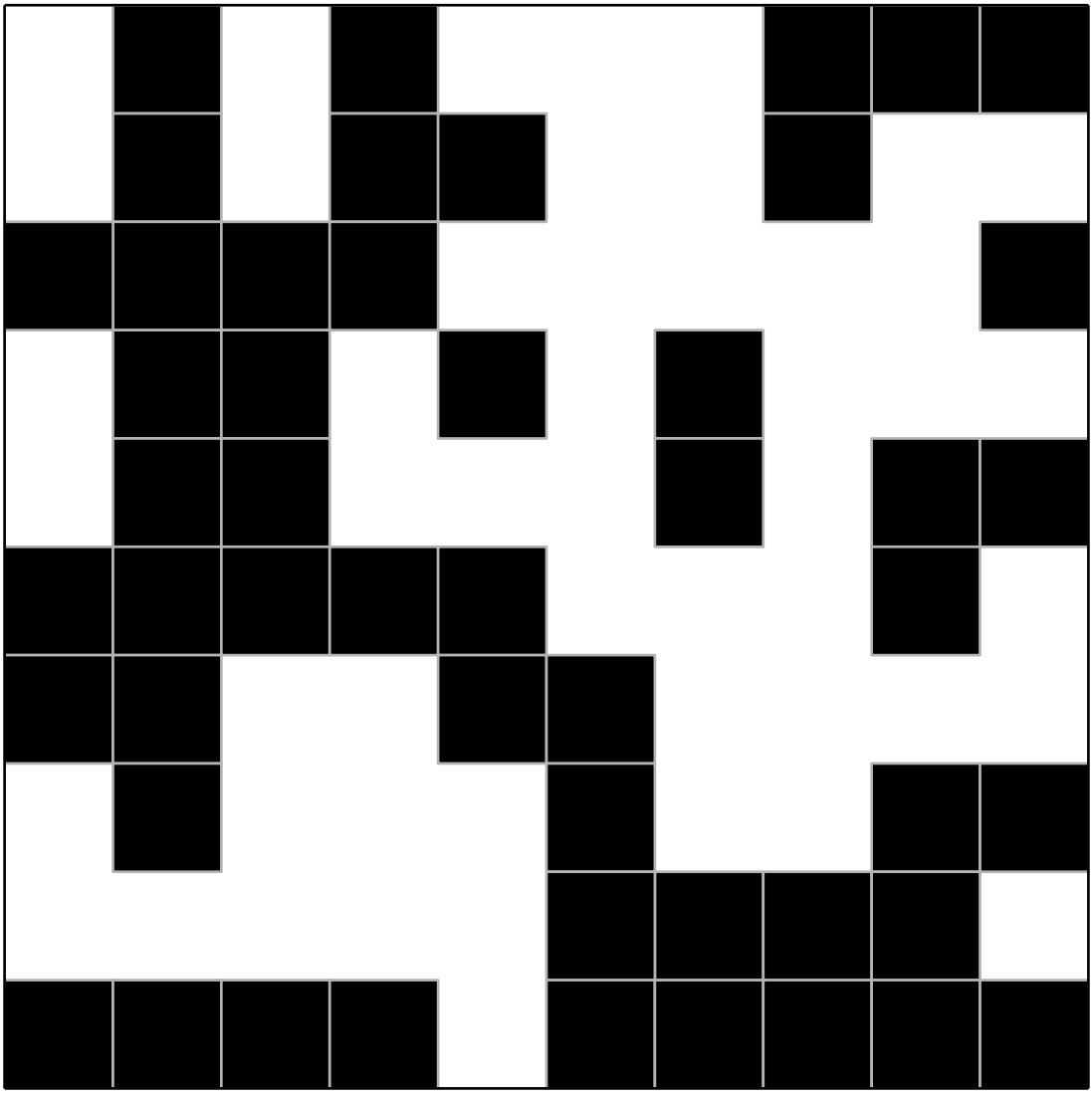
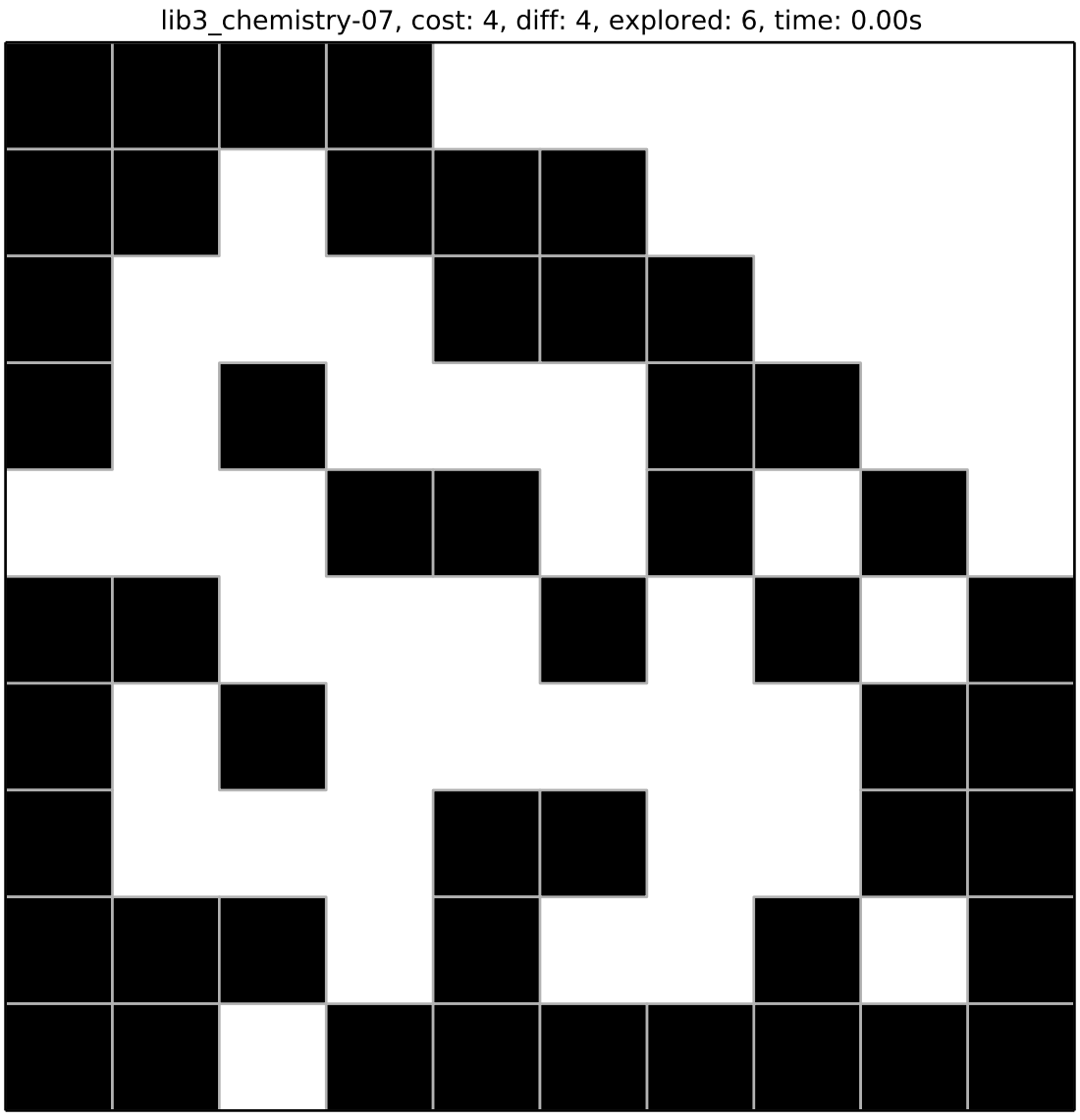
lib3_chemistry-07 10x10 (50) con: 5, var: 5

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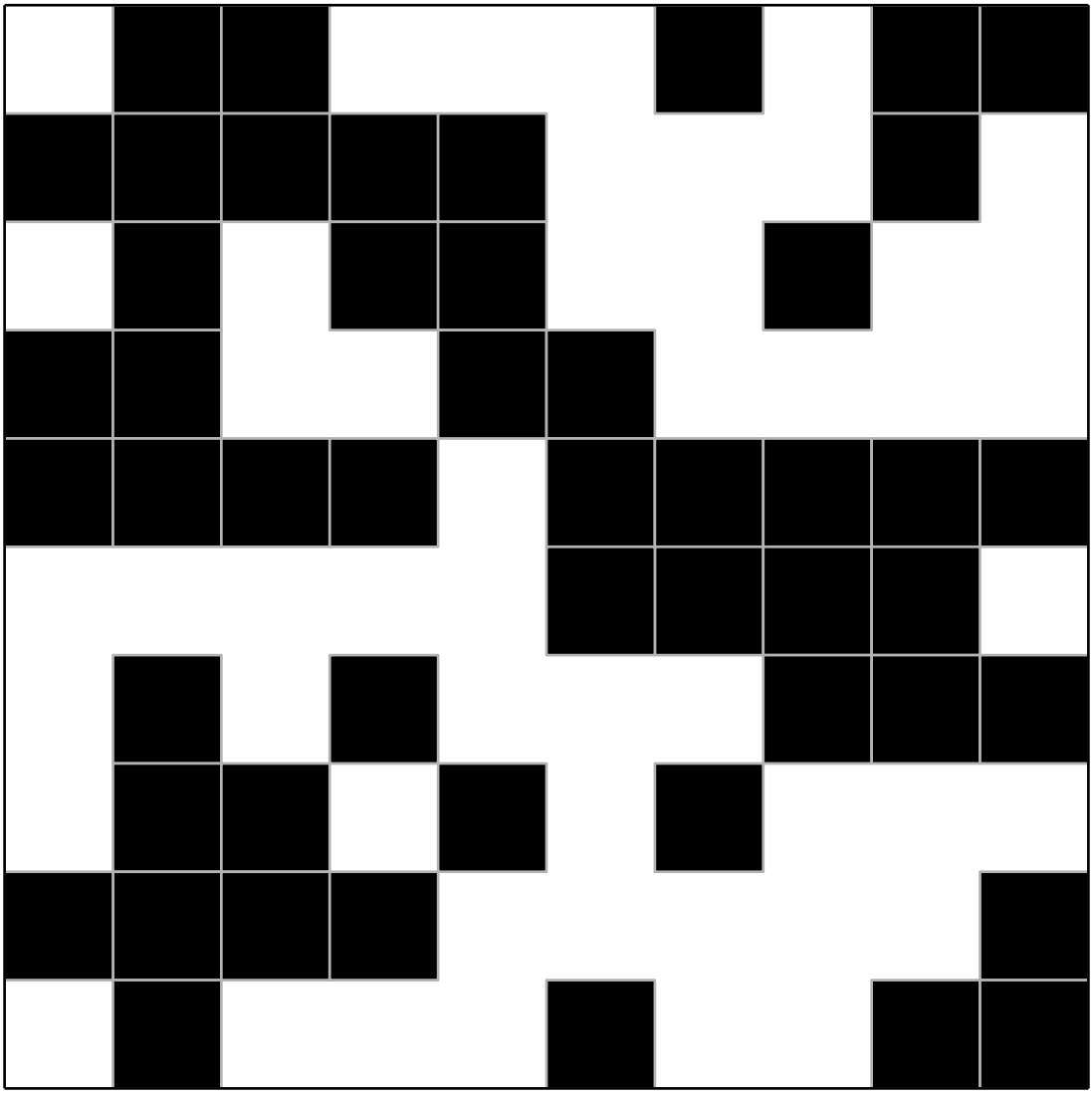
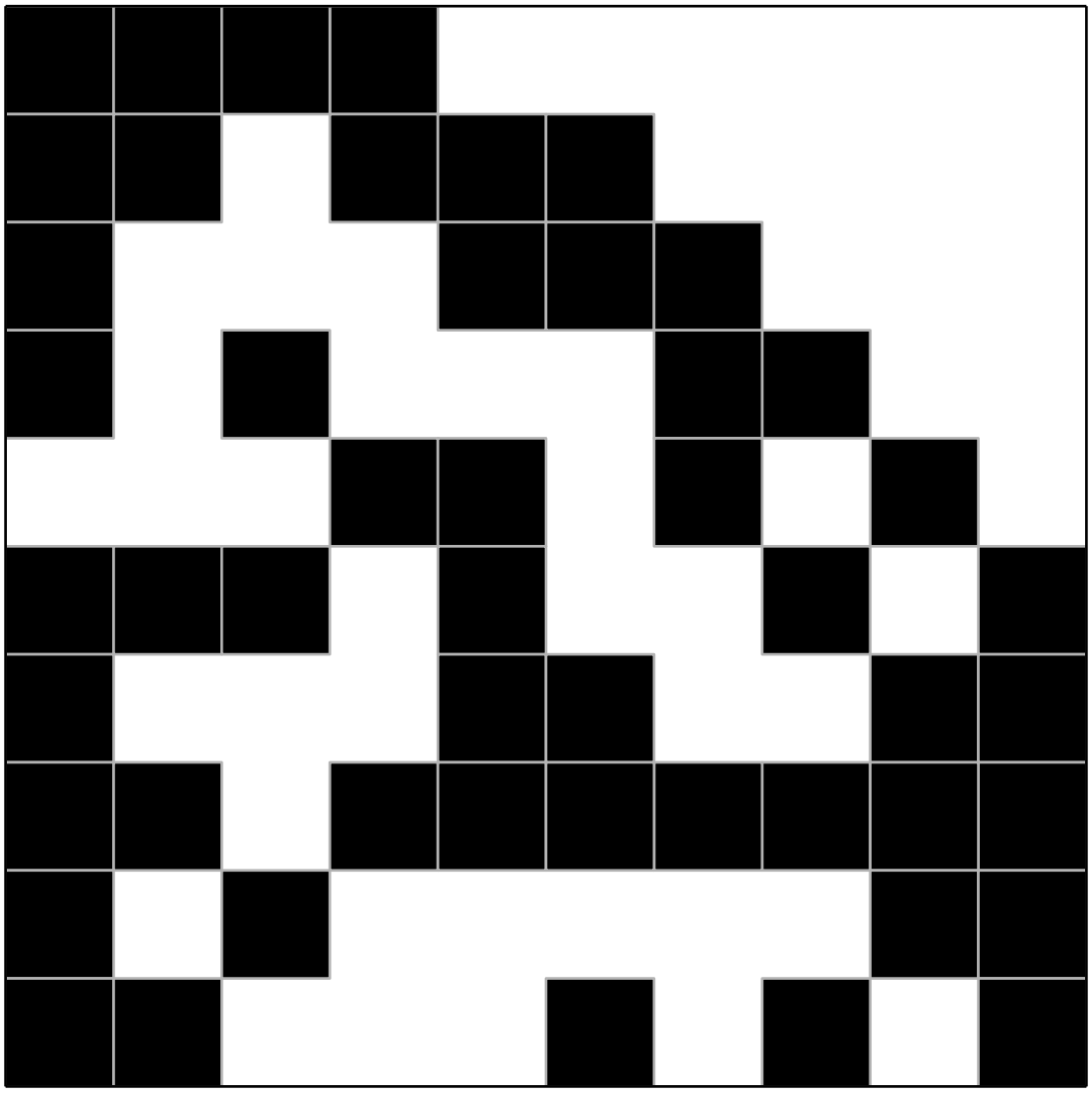
lib3_chemistry-08 10x10 (50) con: 5, var: 5

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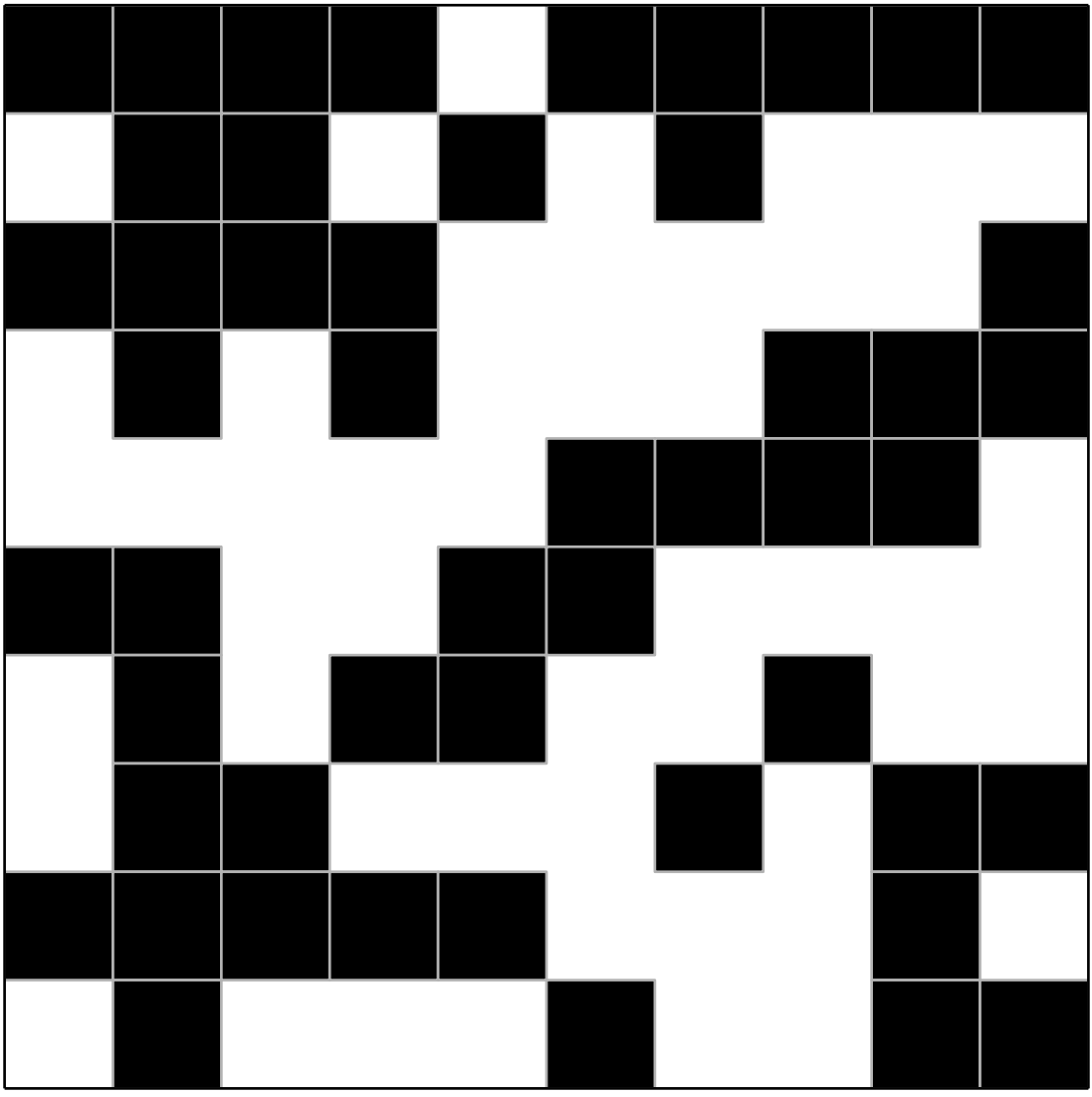
lib3_chemistry-09 10x10 (50) con: 5, var: 5



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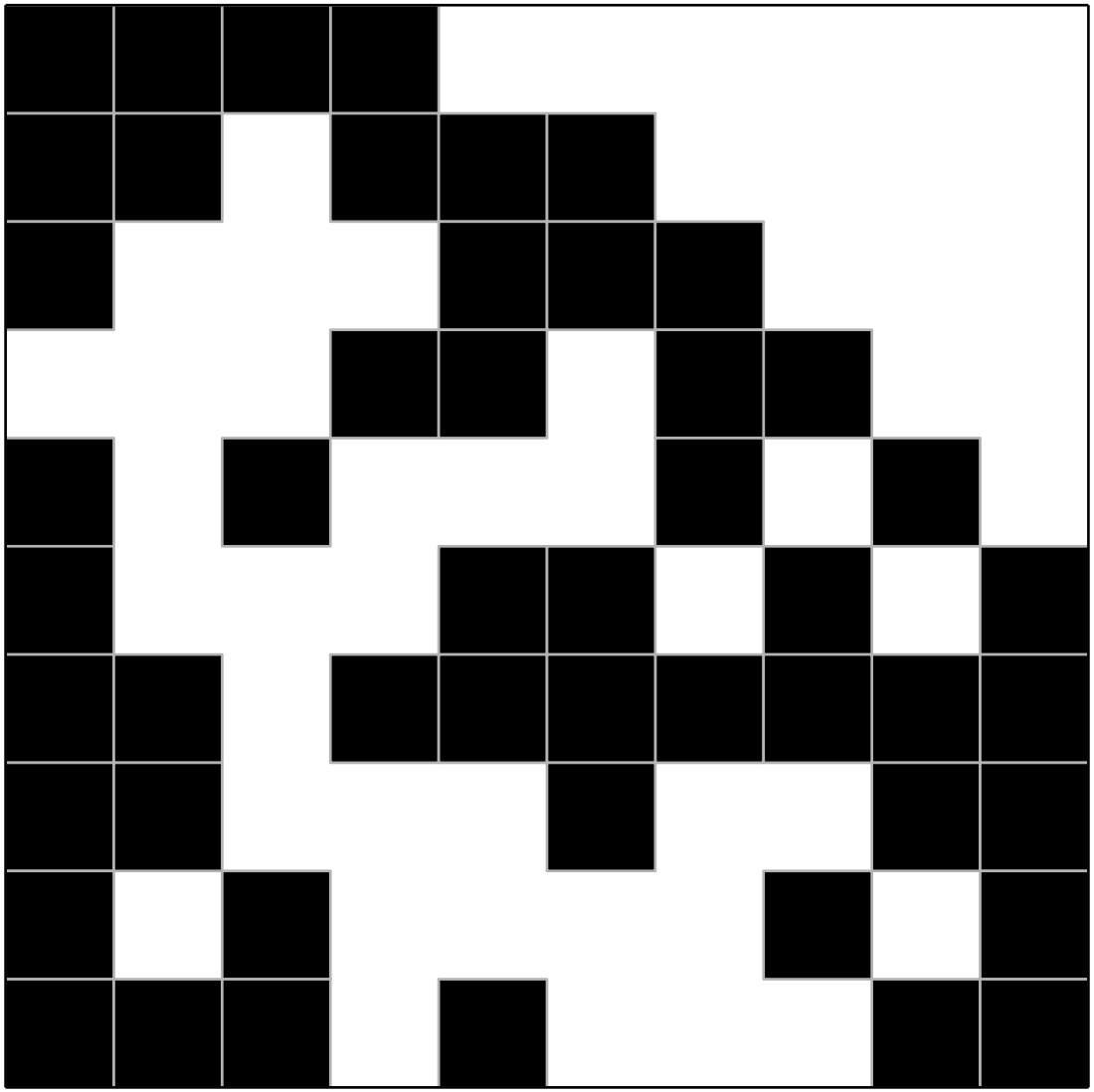
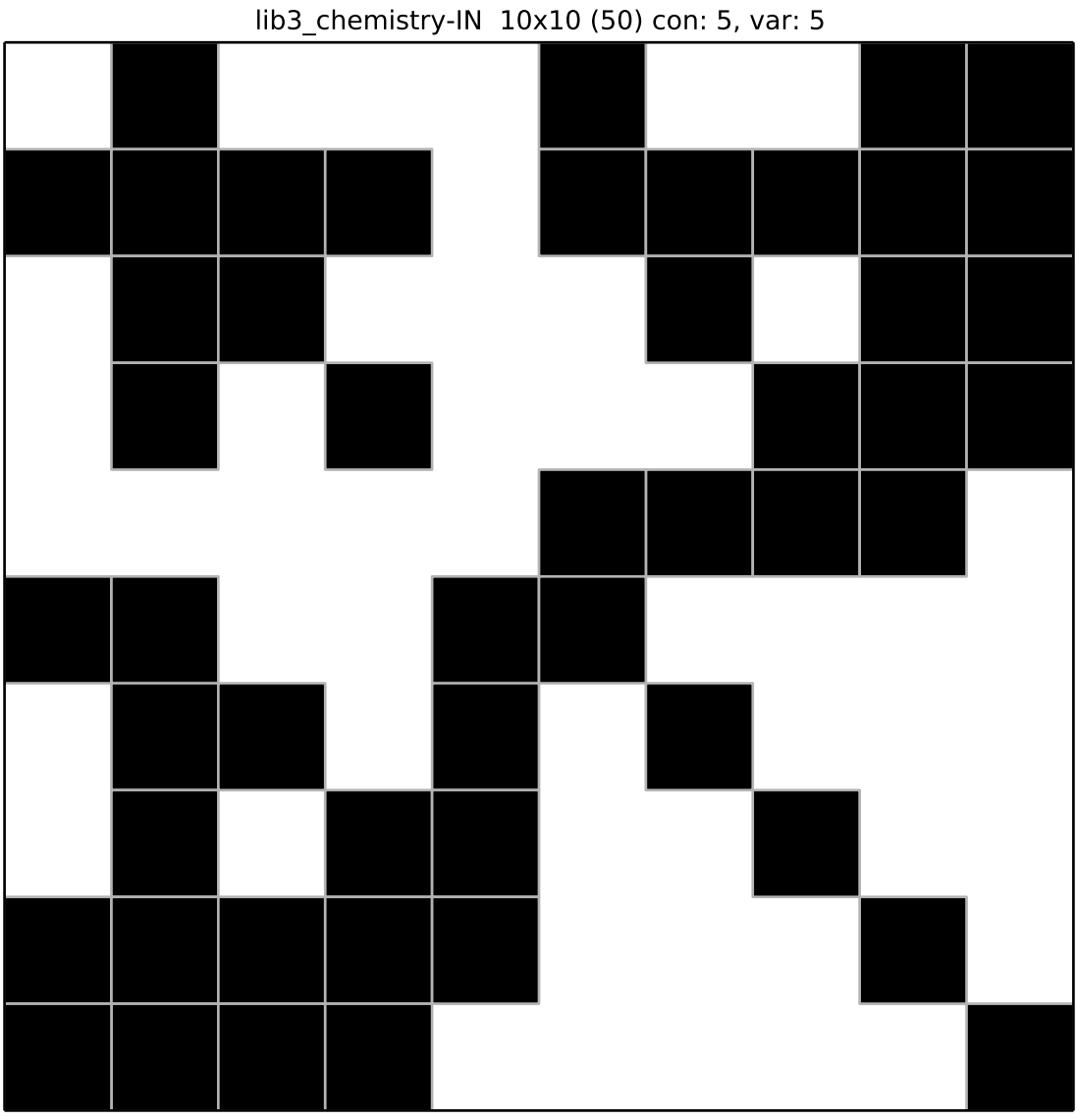
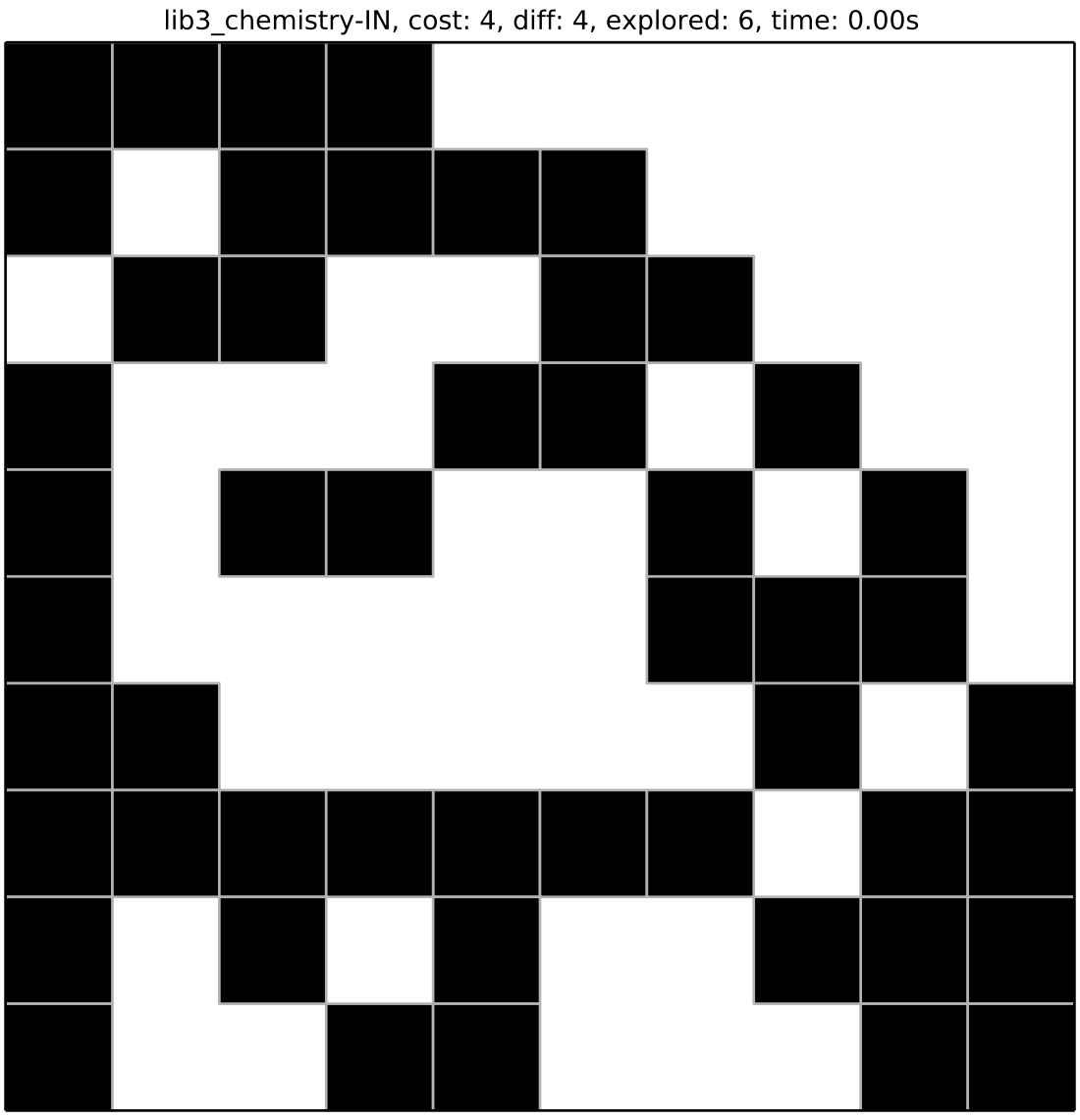



lib3_chemistry-IN 10x10 (50) con: 5, var: 5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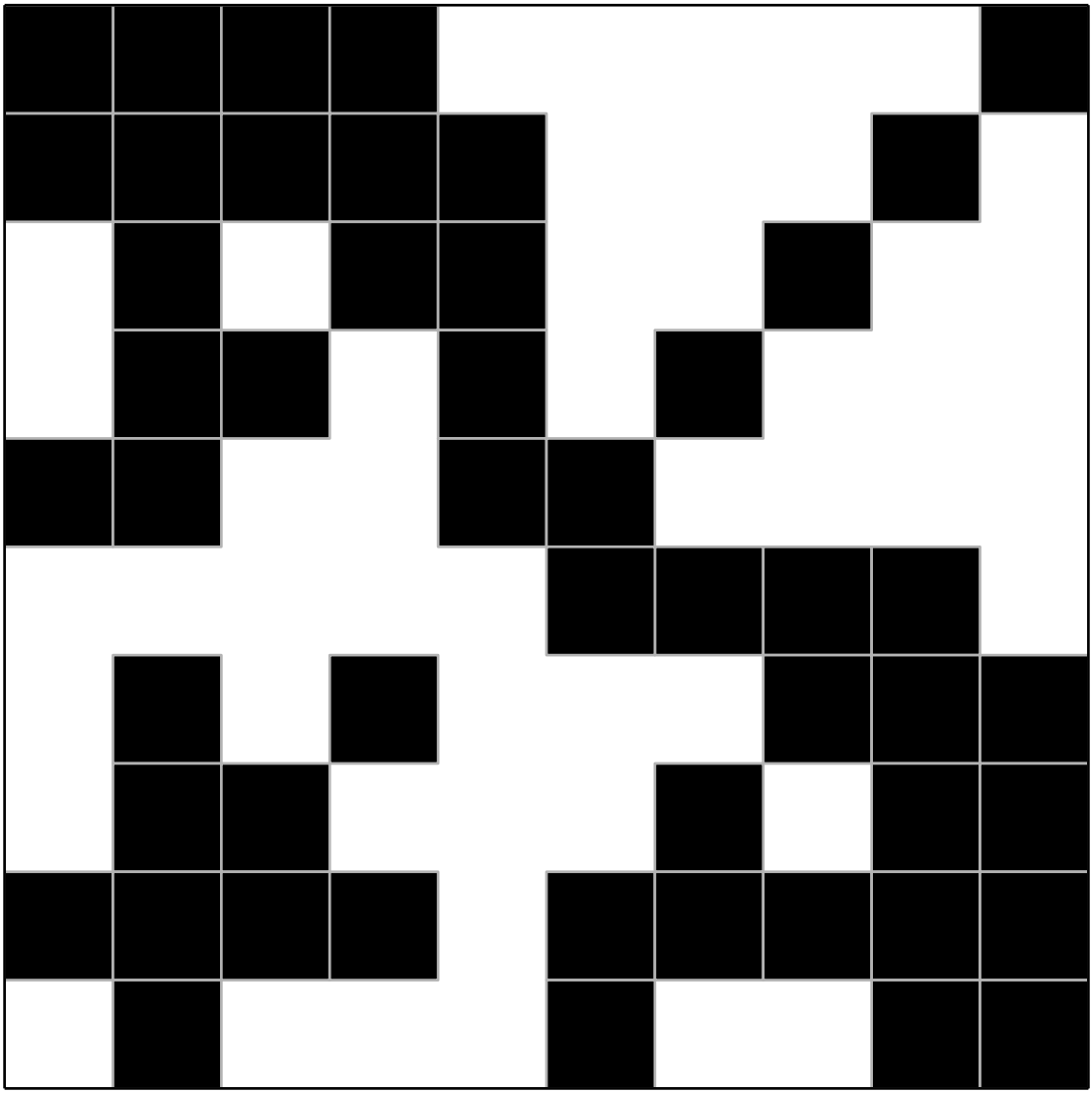
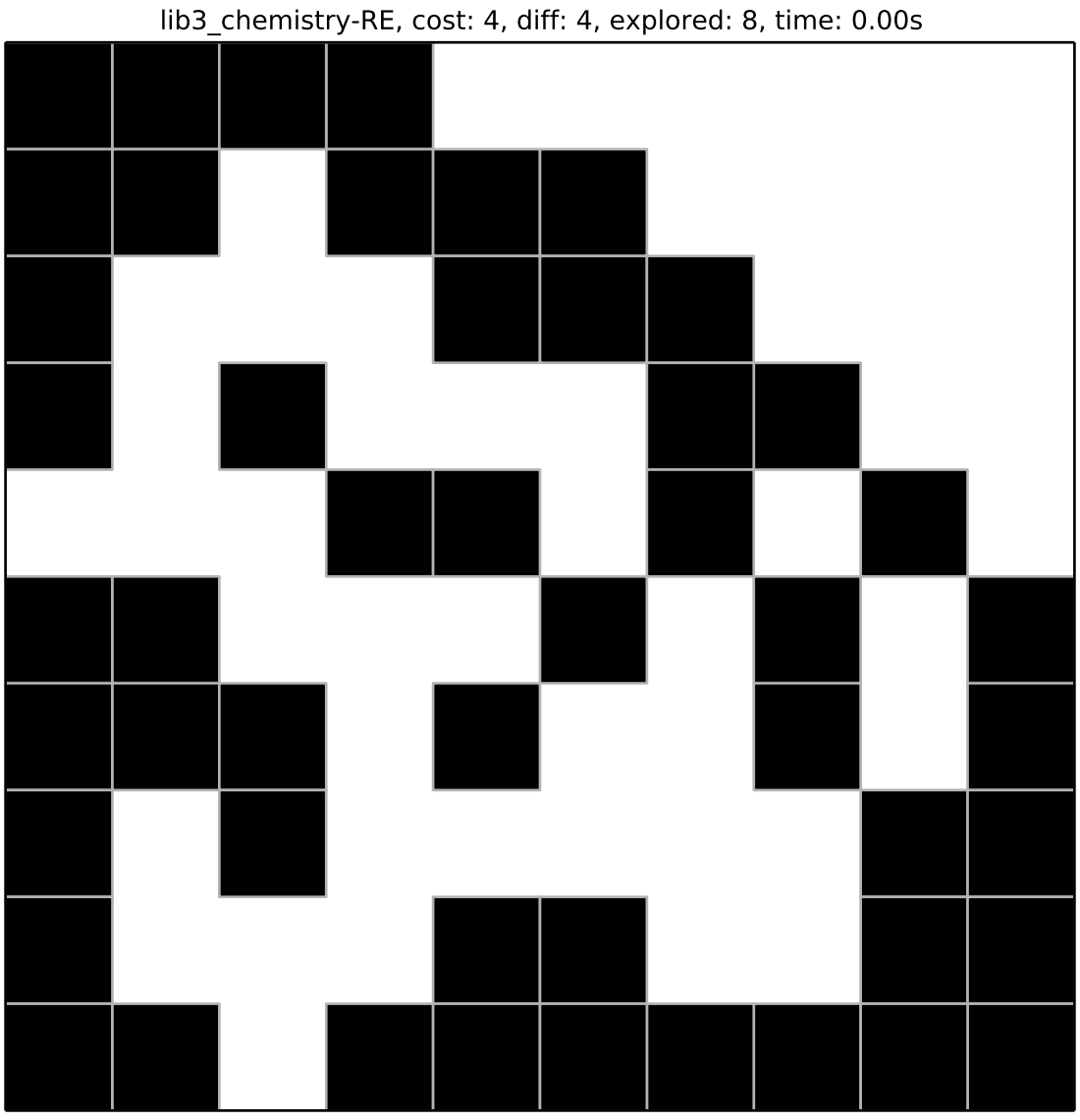
lib3_chemistry-RE 10x10 (50) con: 5, var: 5

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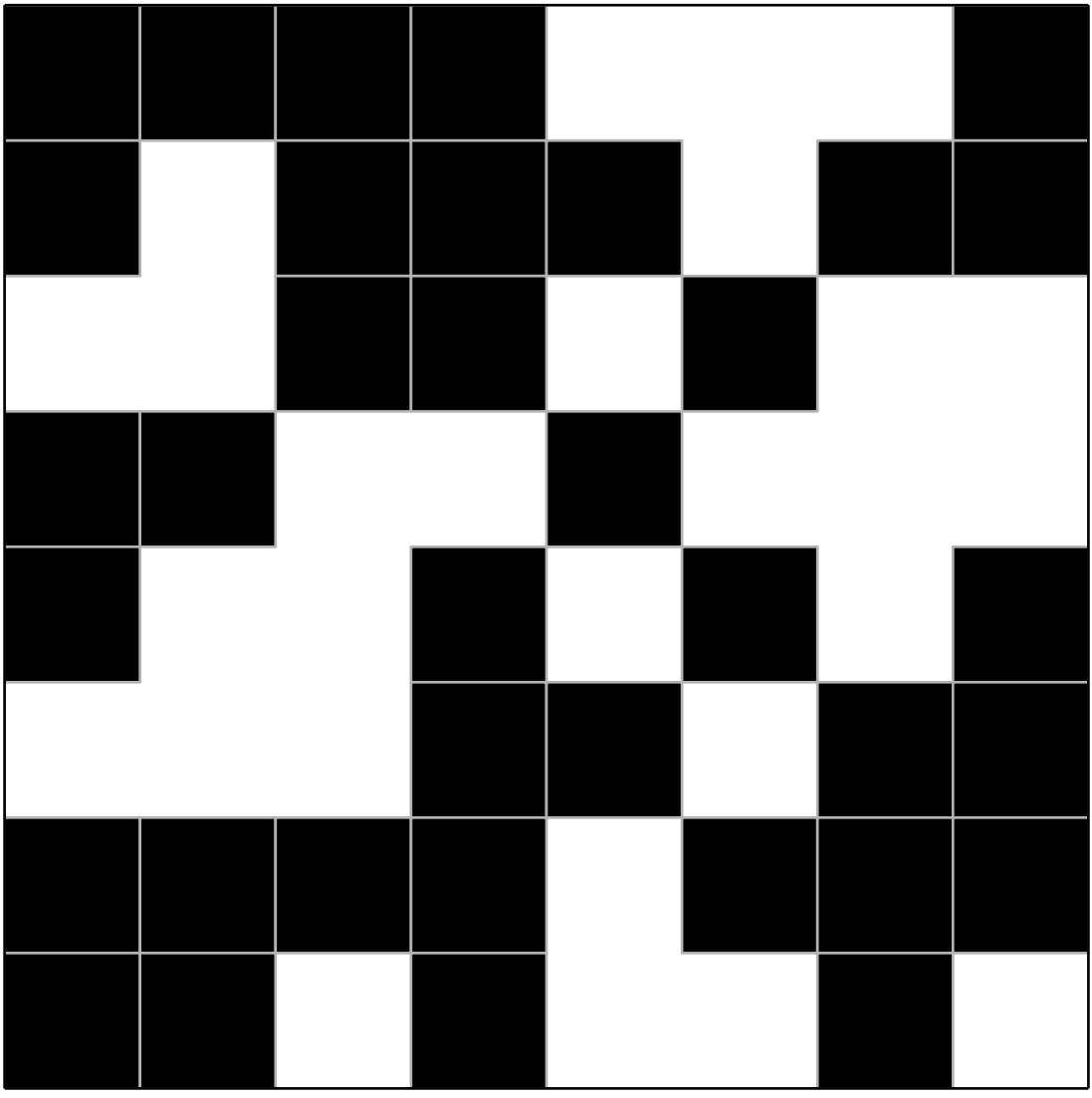
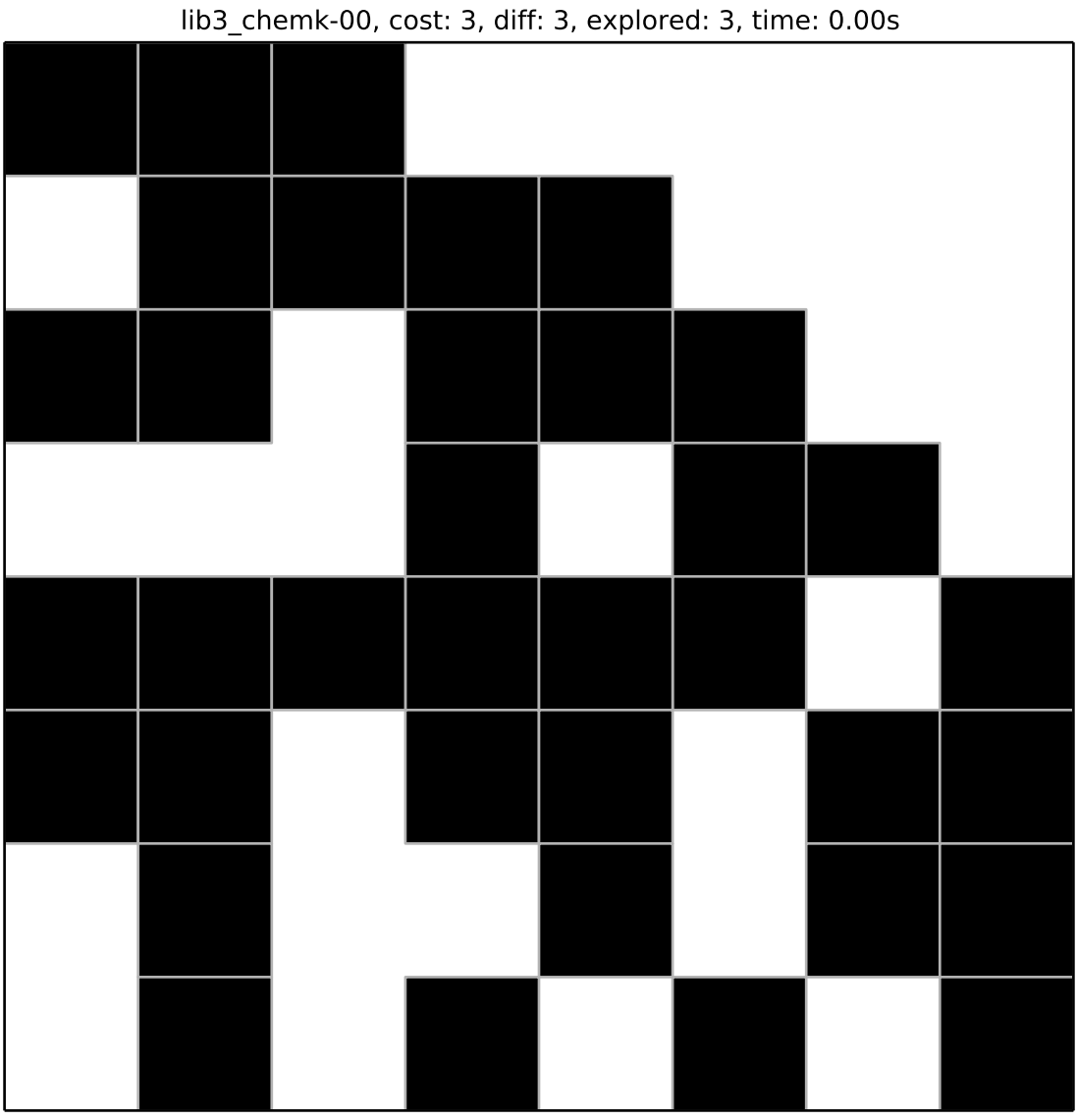
lib3_chemk-00 8x8 (36) con: 4, var: 4

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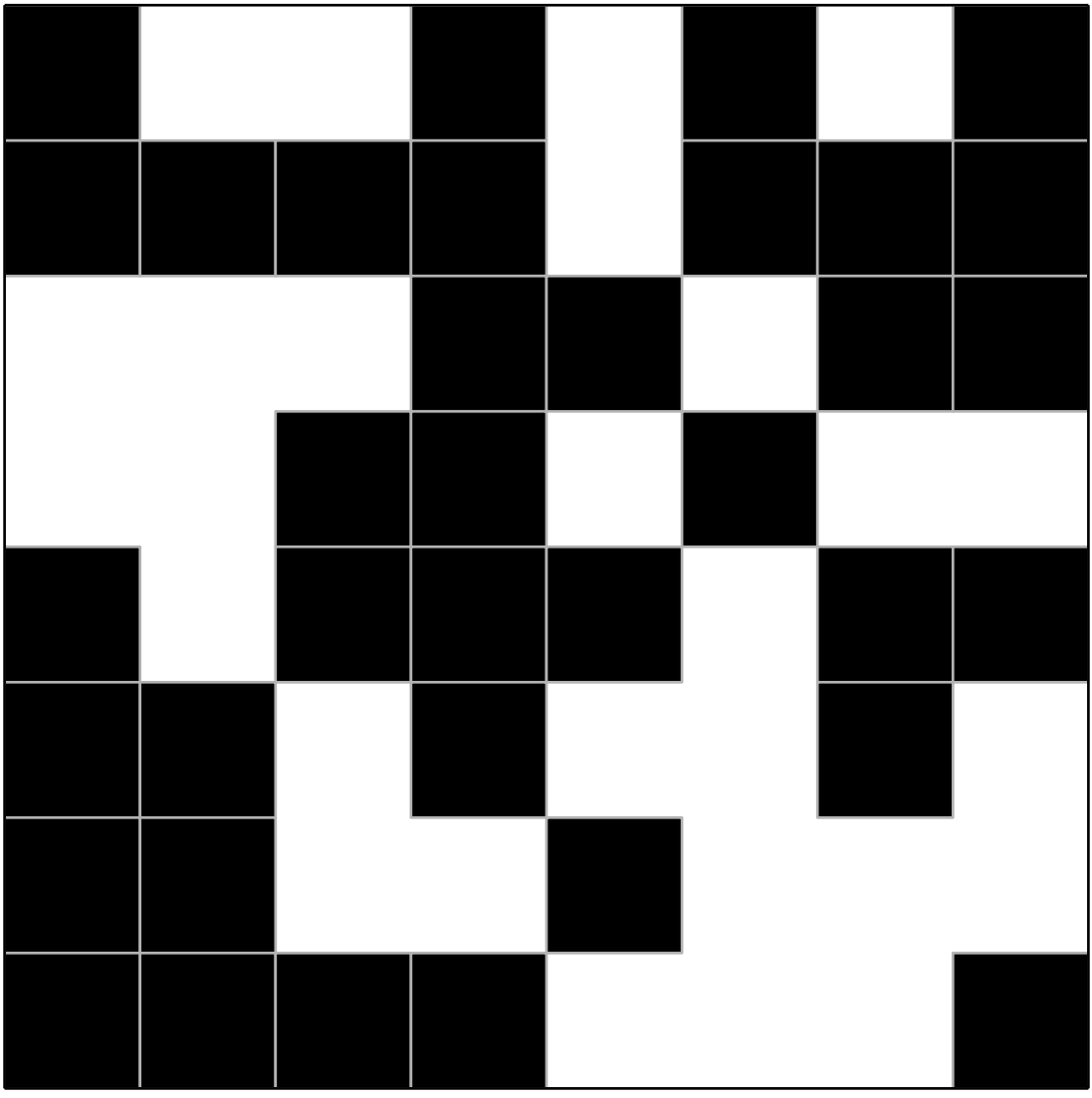
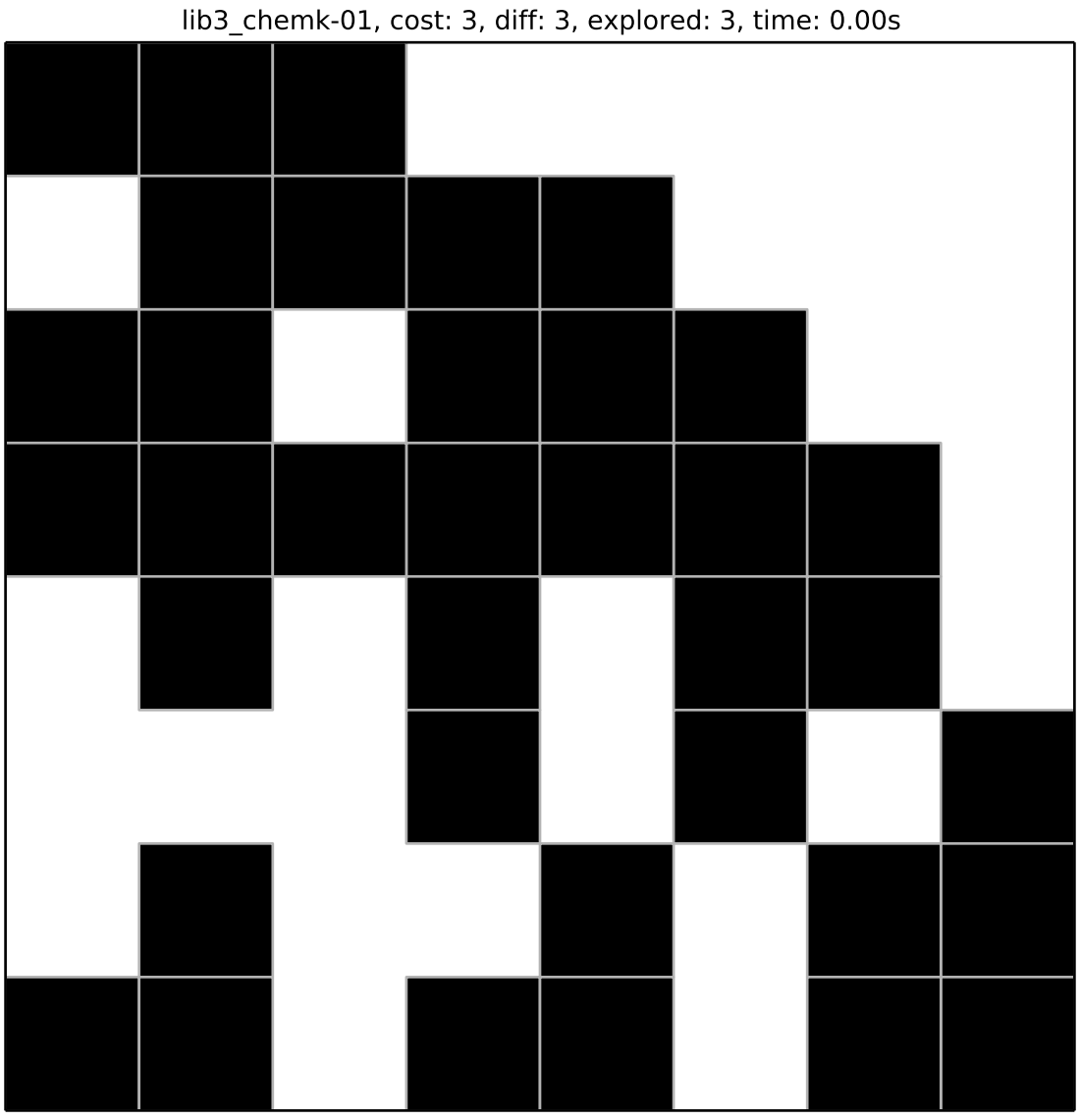
lib3_chemk-01 8x8 (36) con: 4, var: 4

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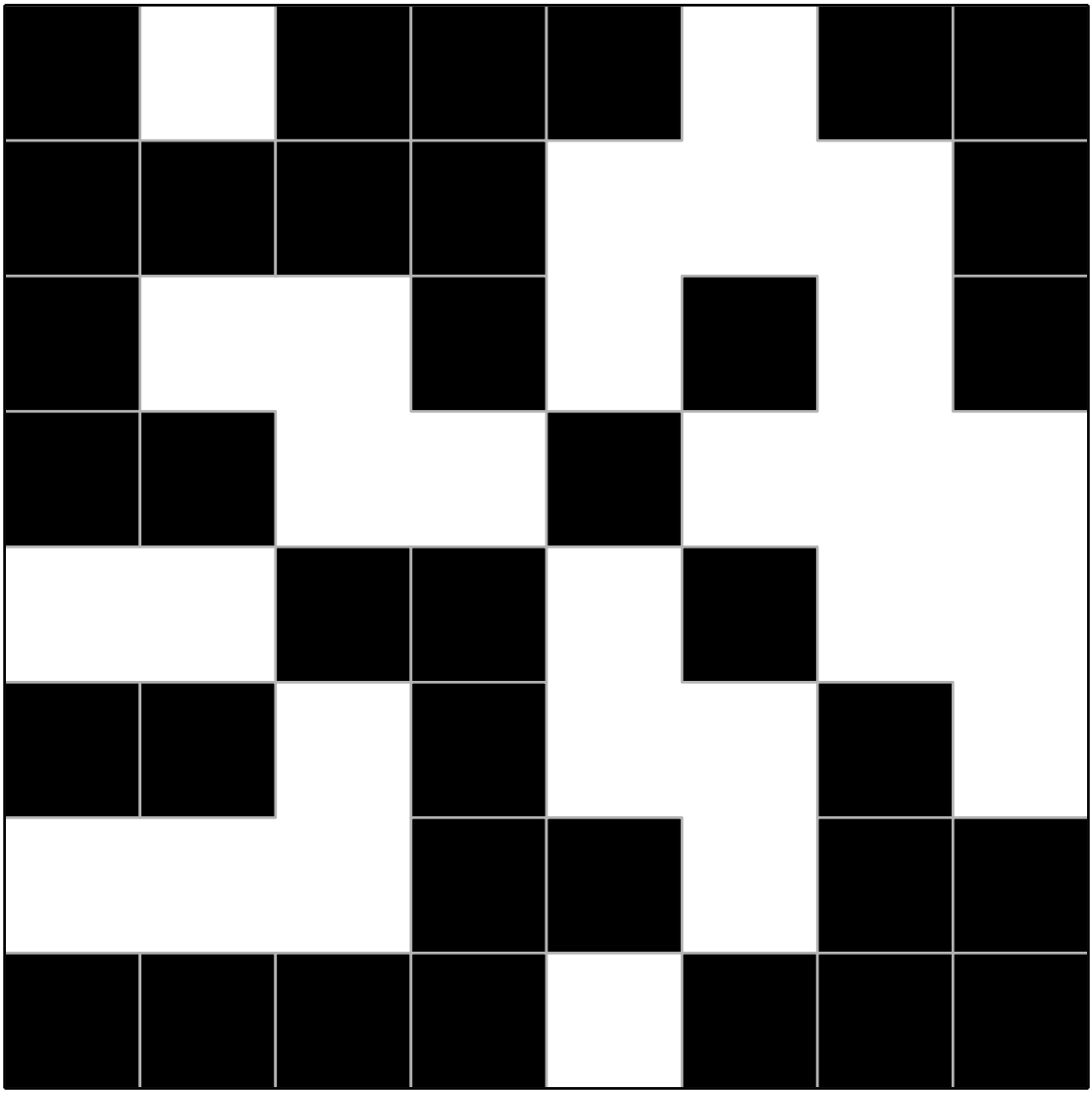

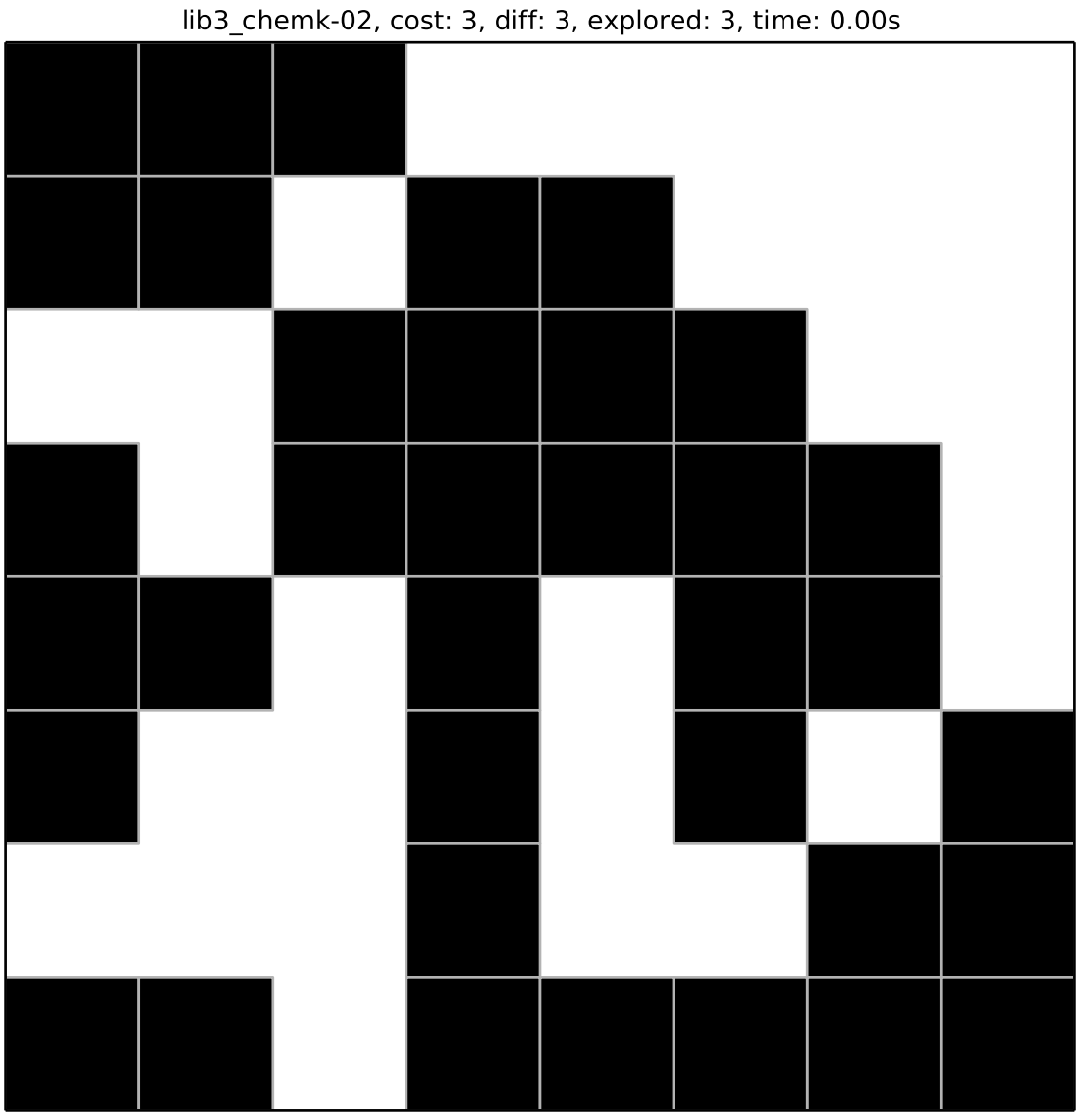
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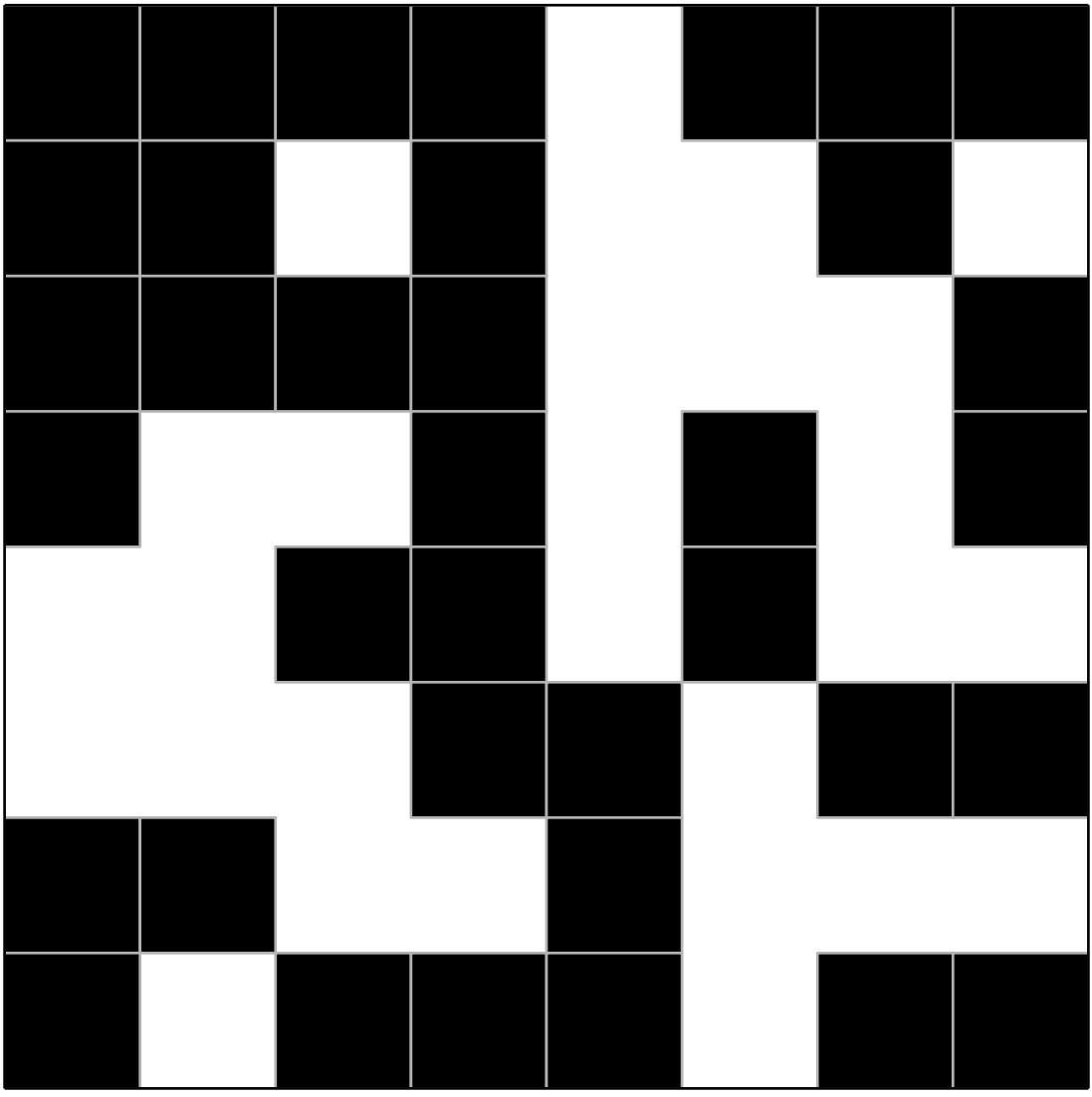

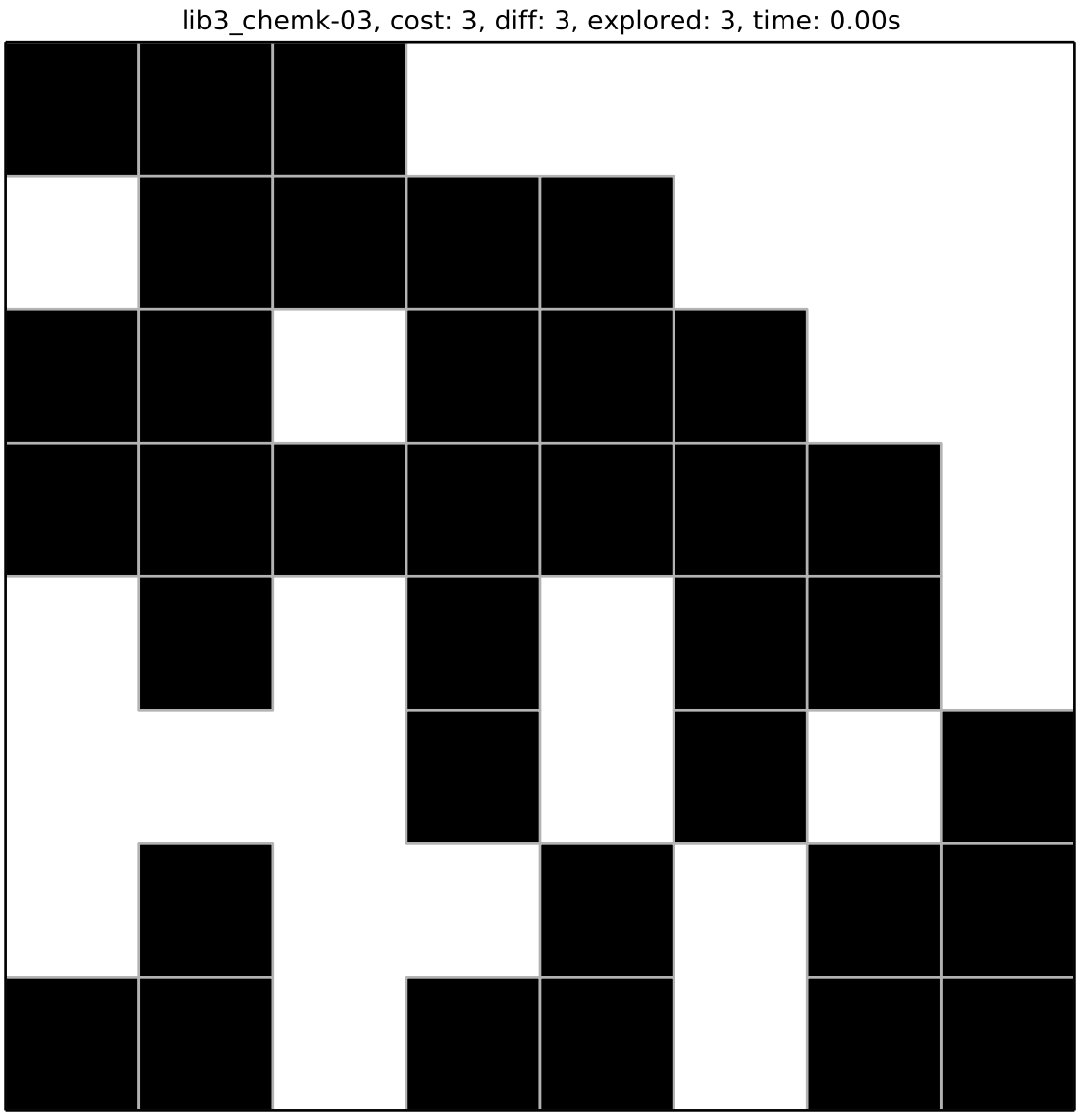
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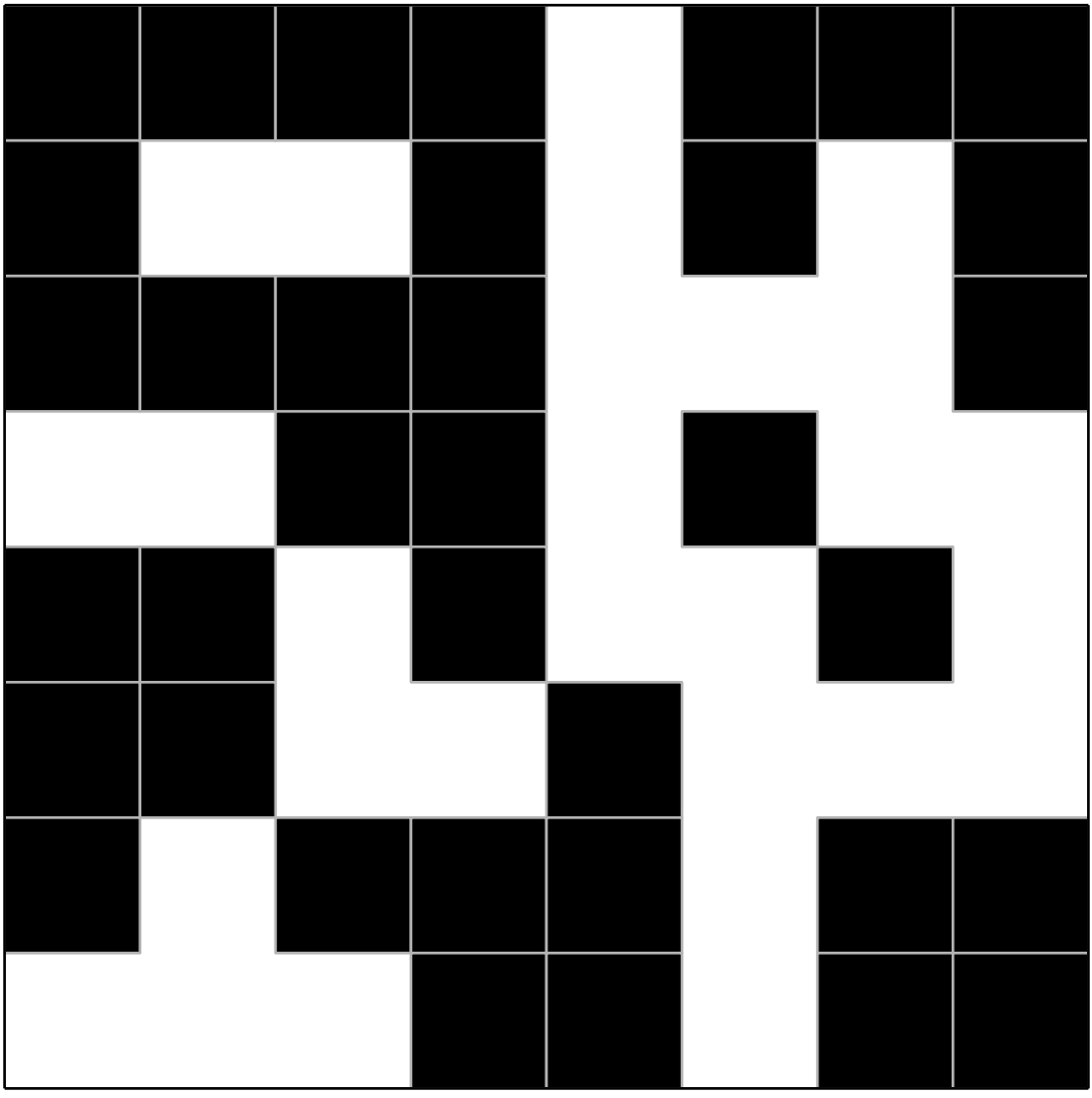

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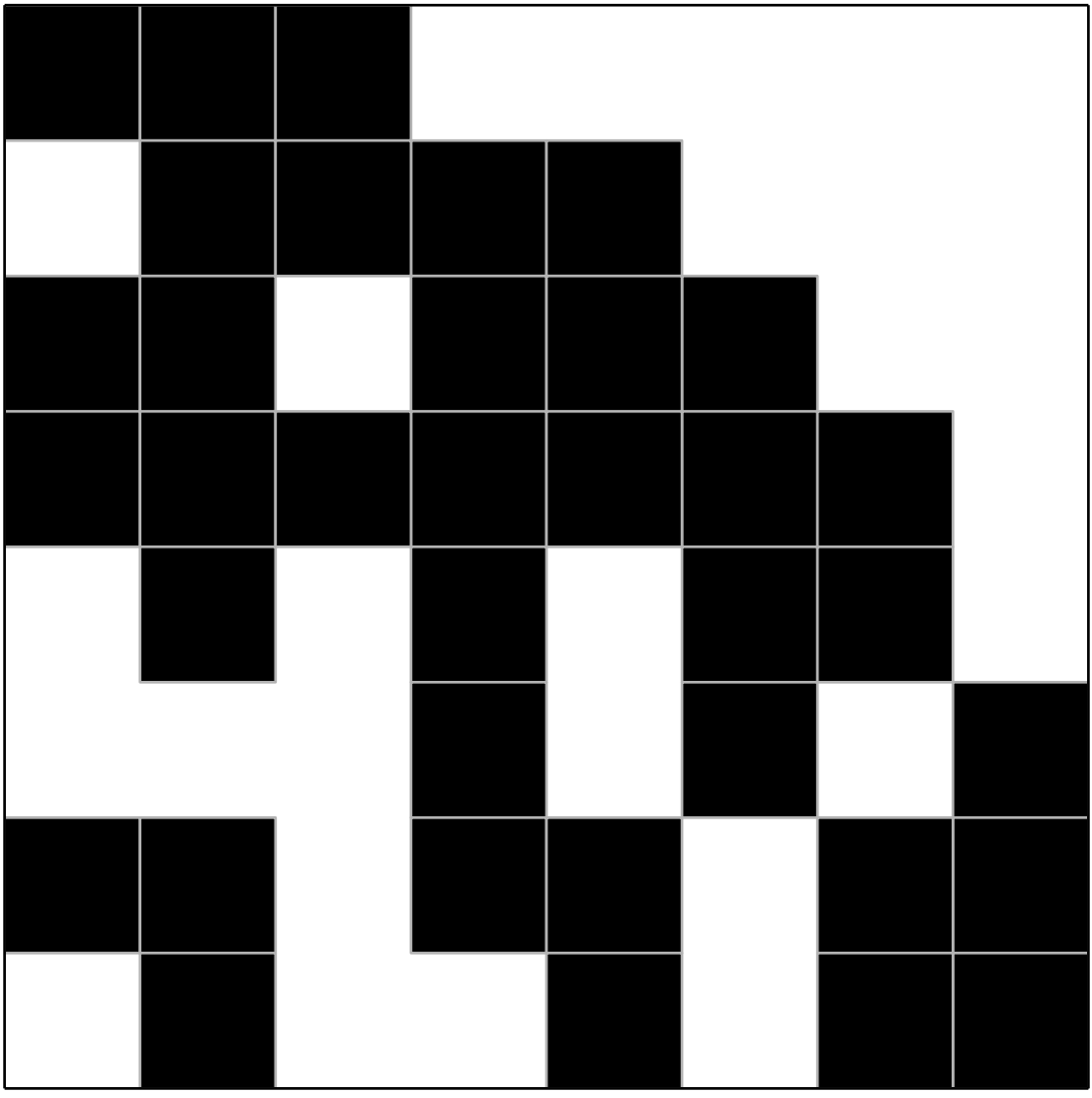

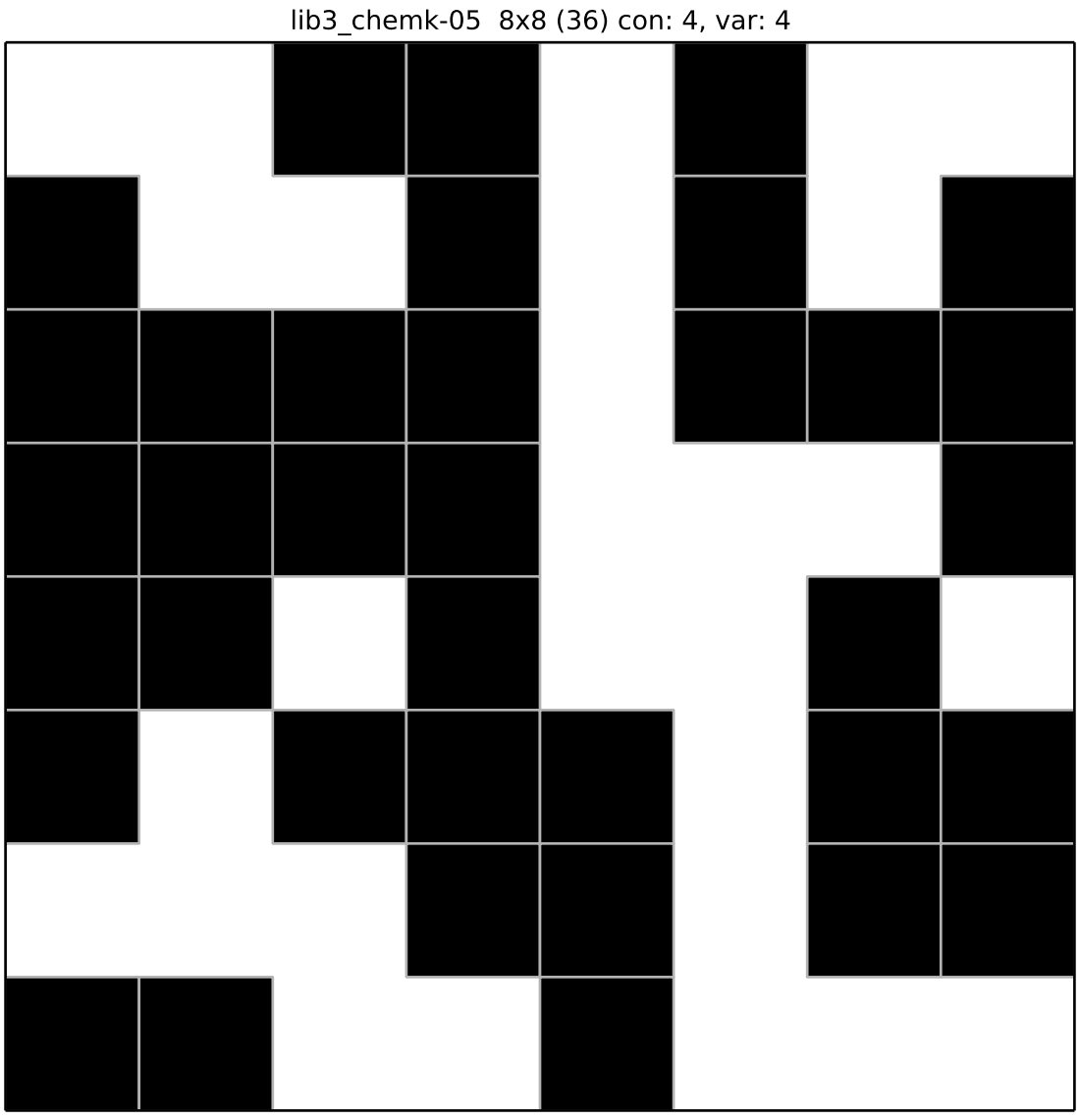
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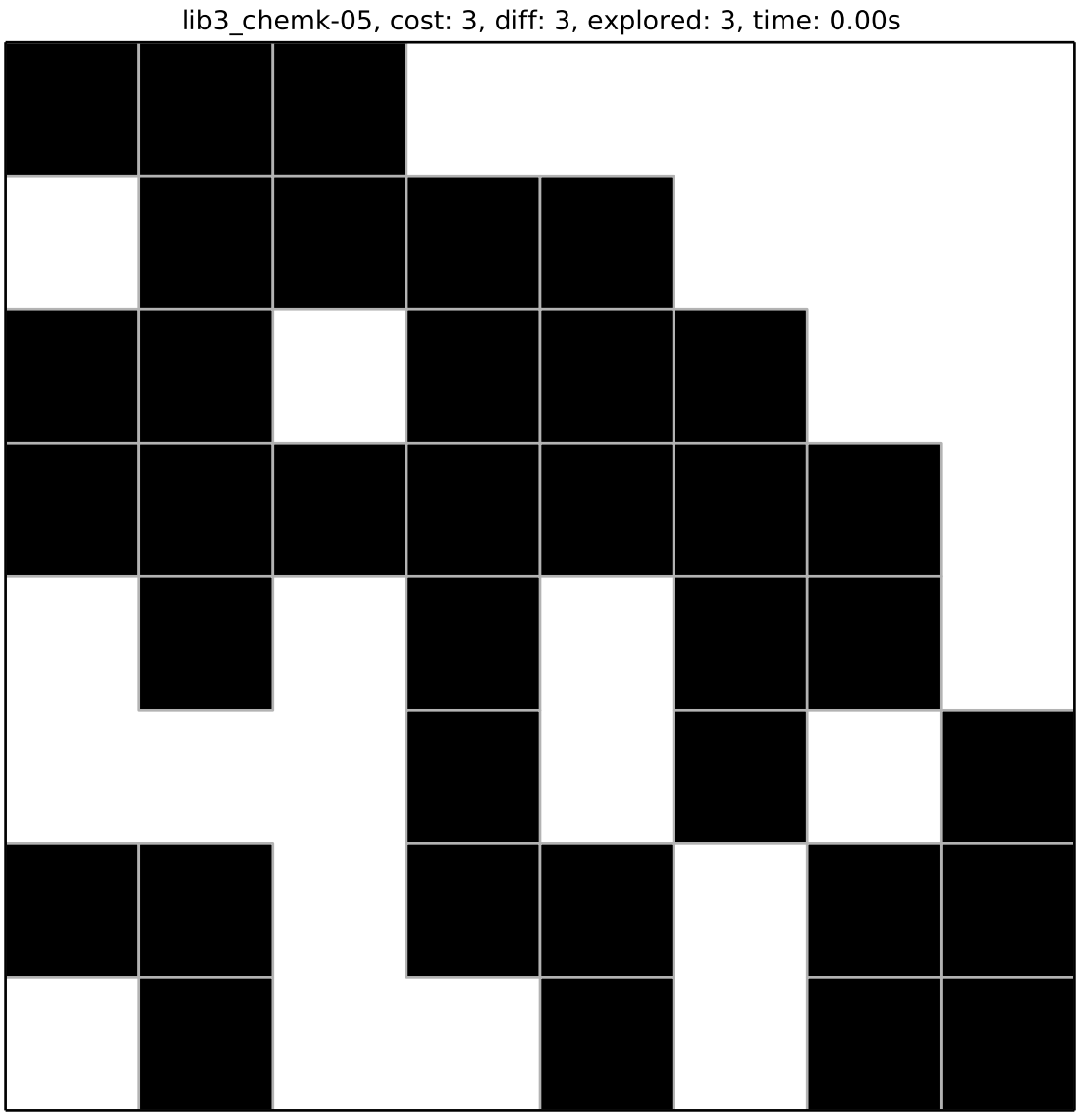
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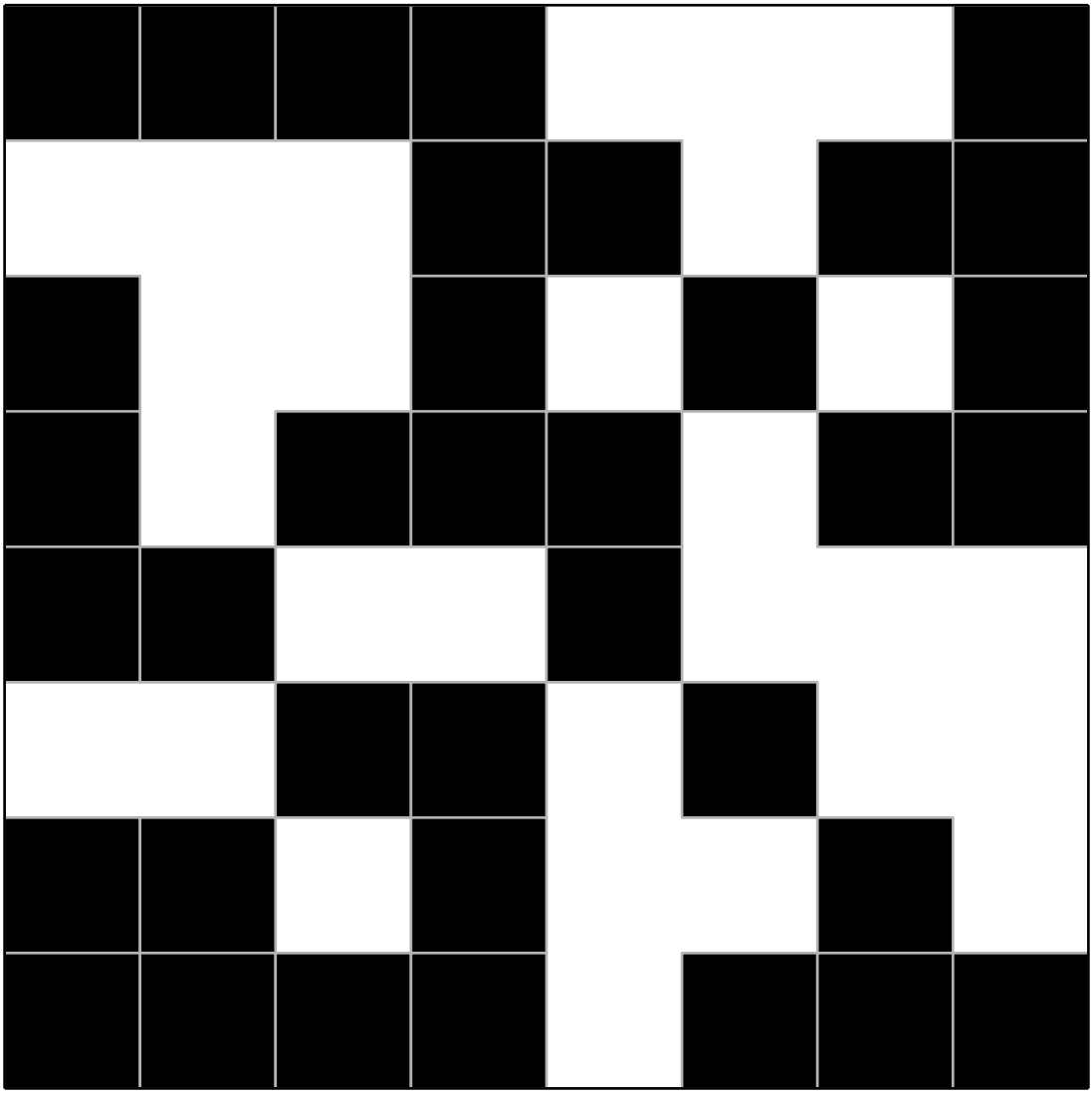

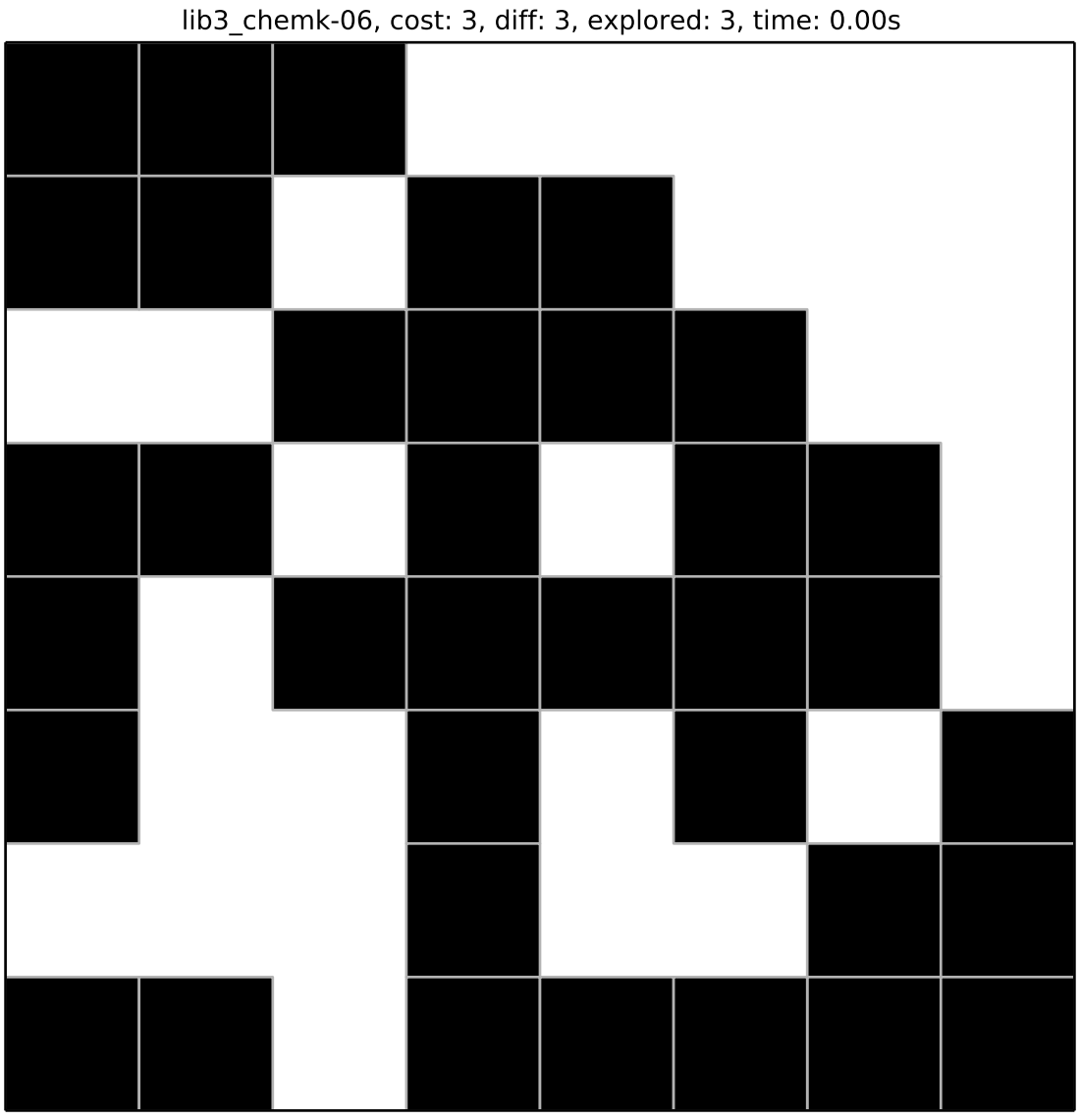
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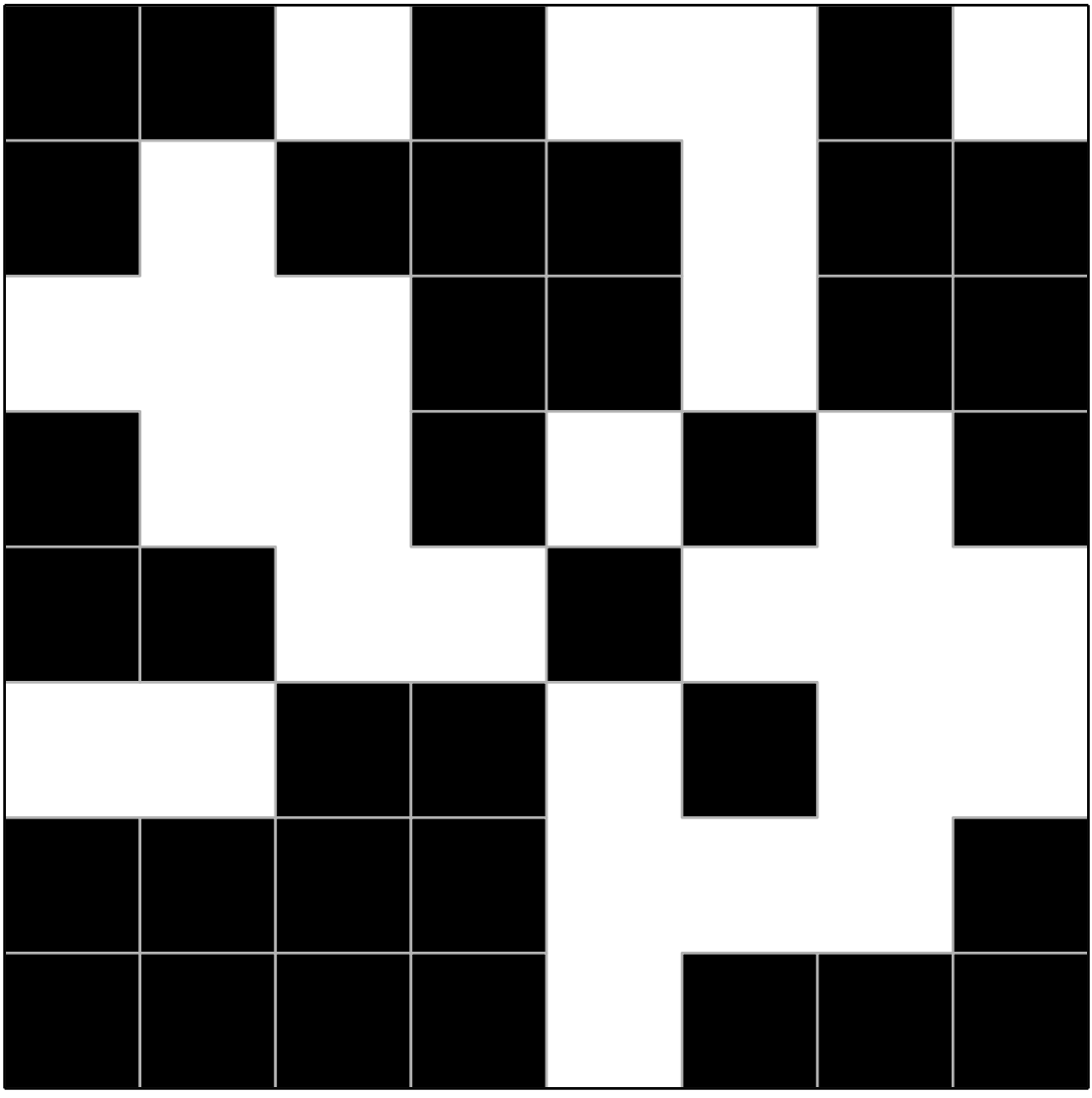

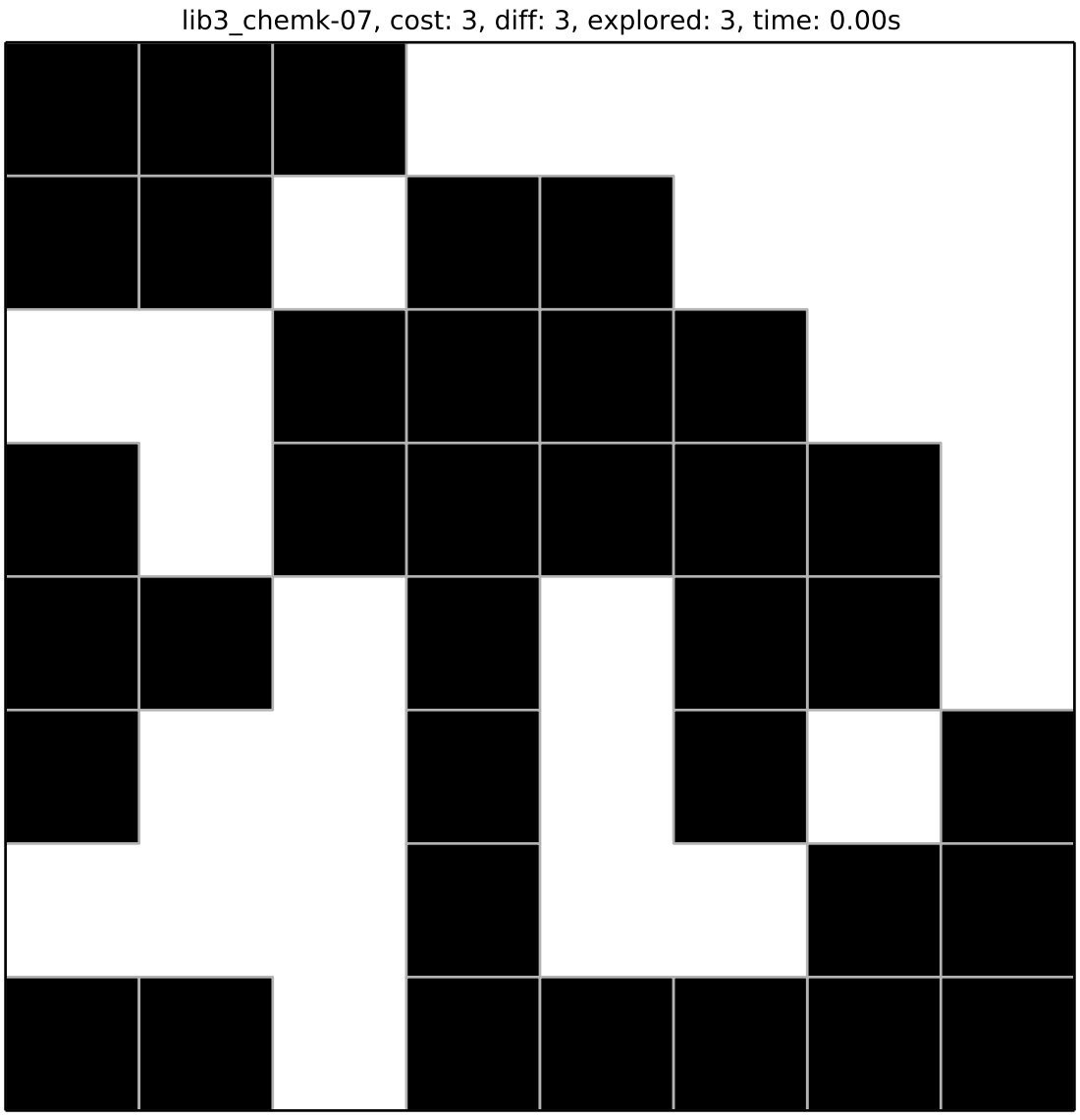
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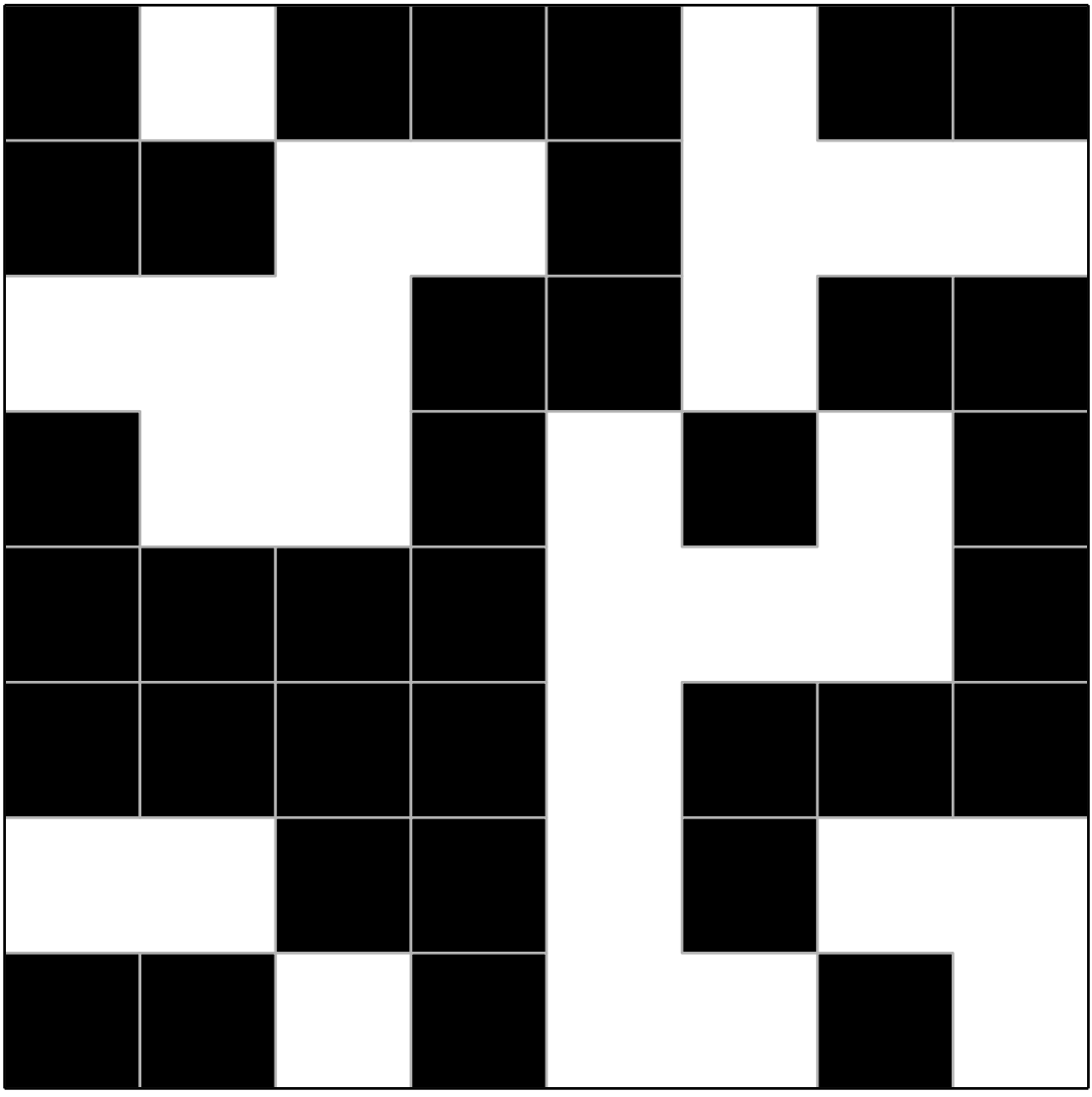
lib3_chemk-08 8x8 (36) con: 4, var: 4



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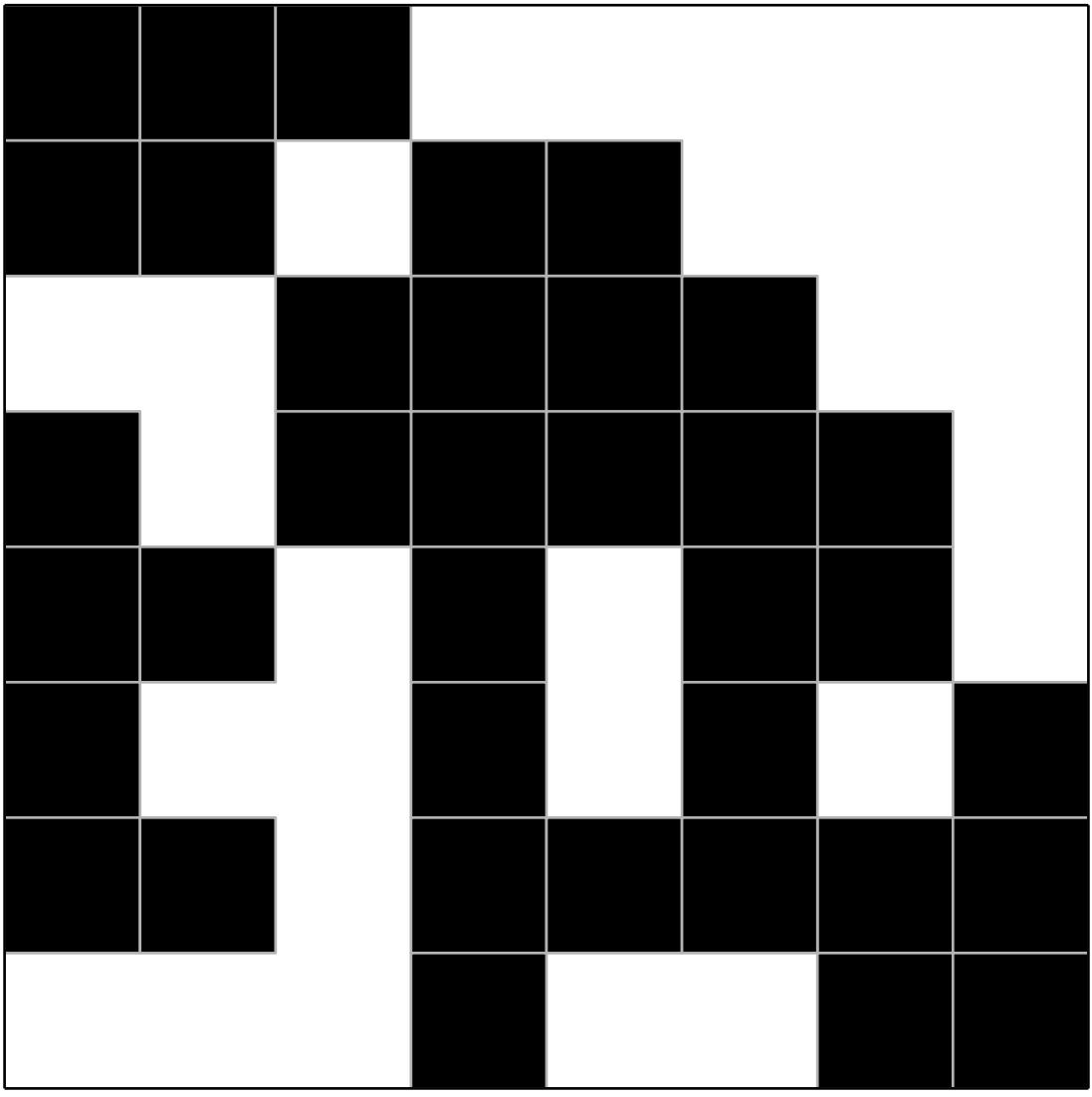

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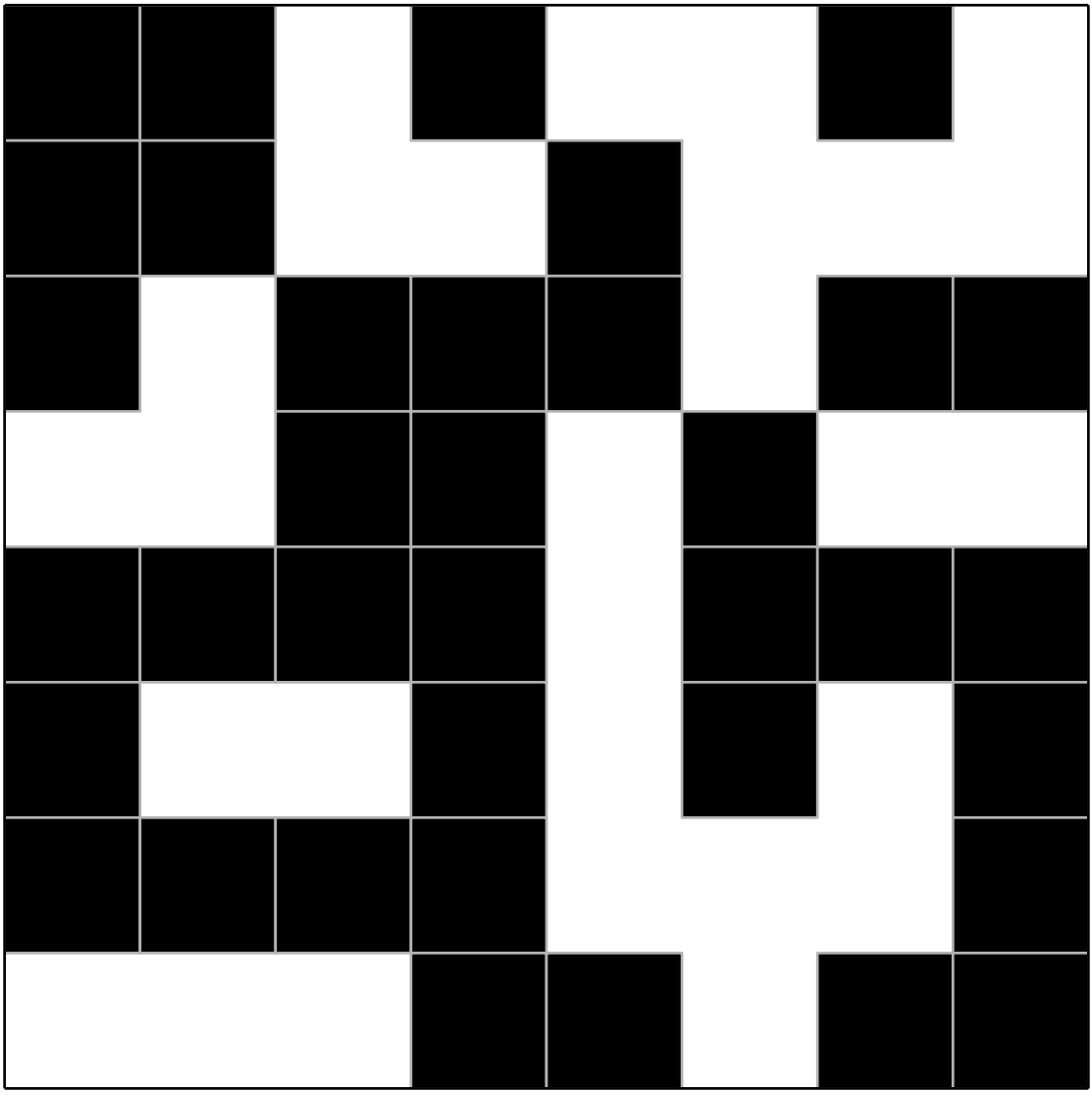

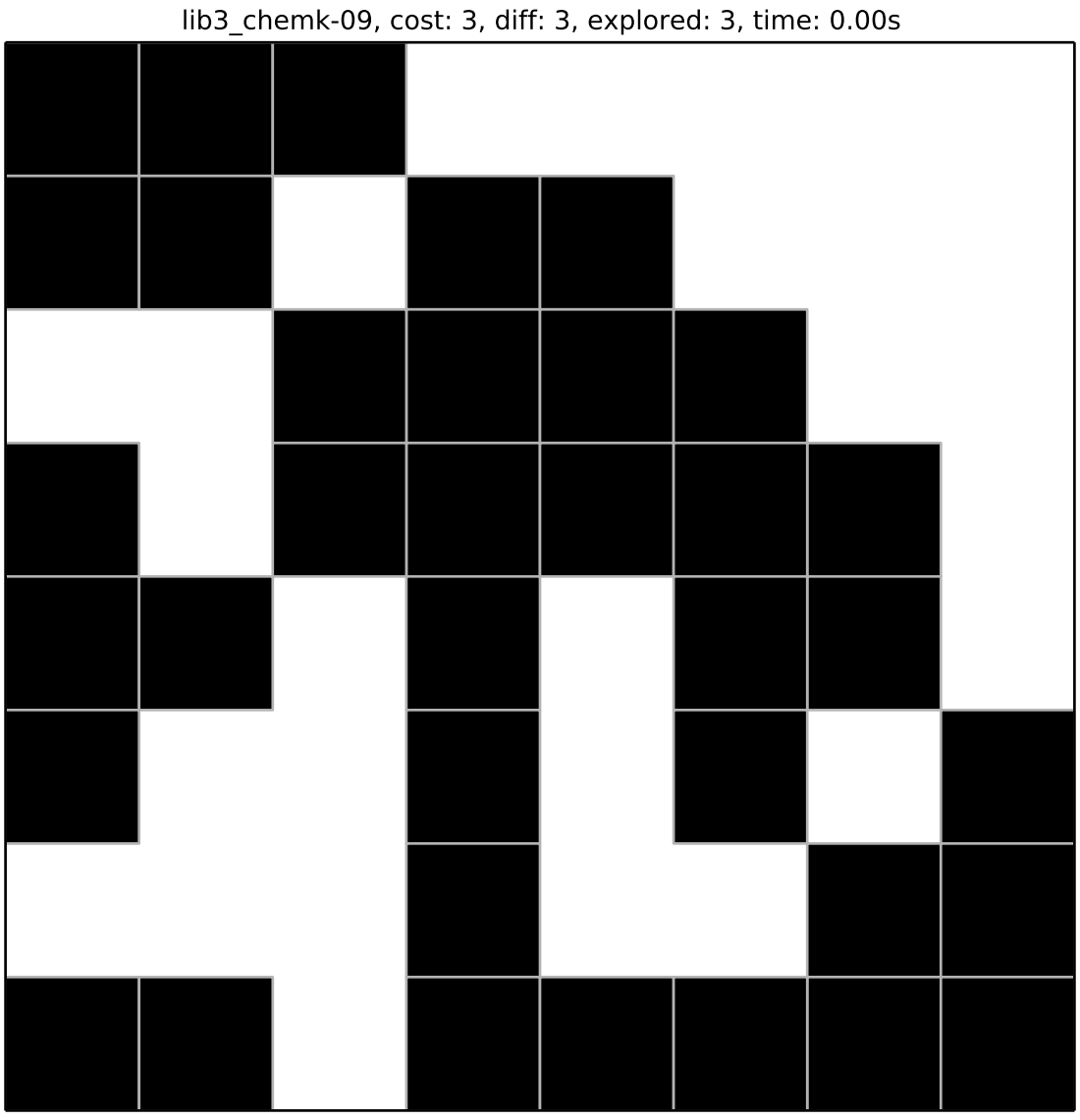
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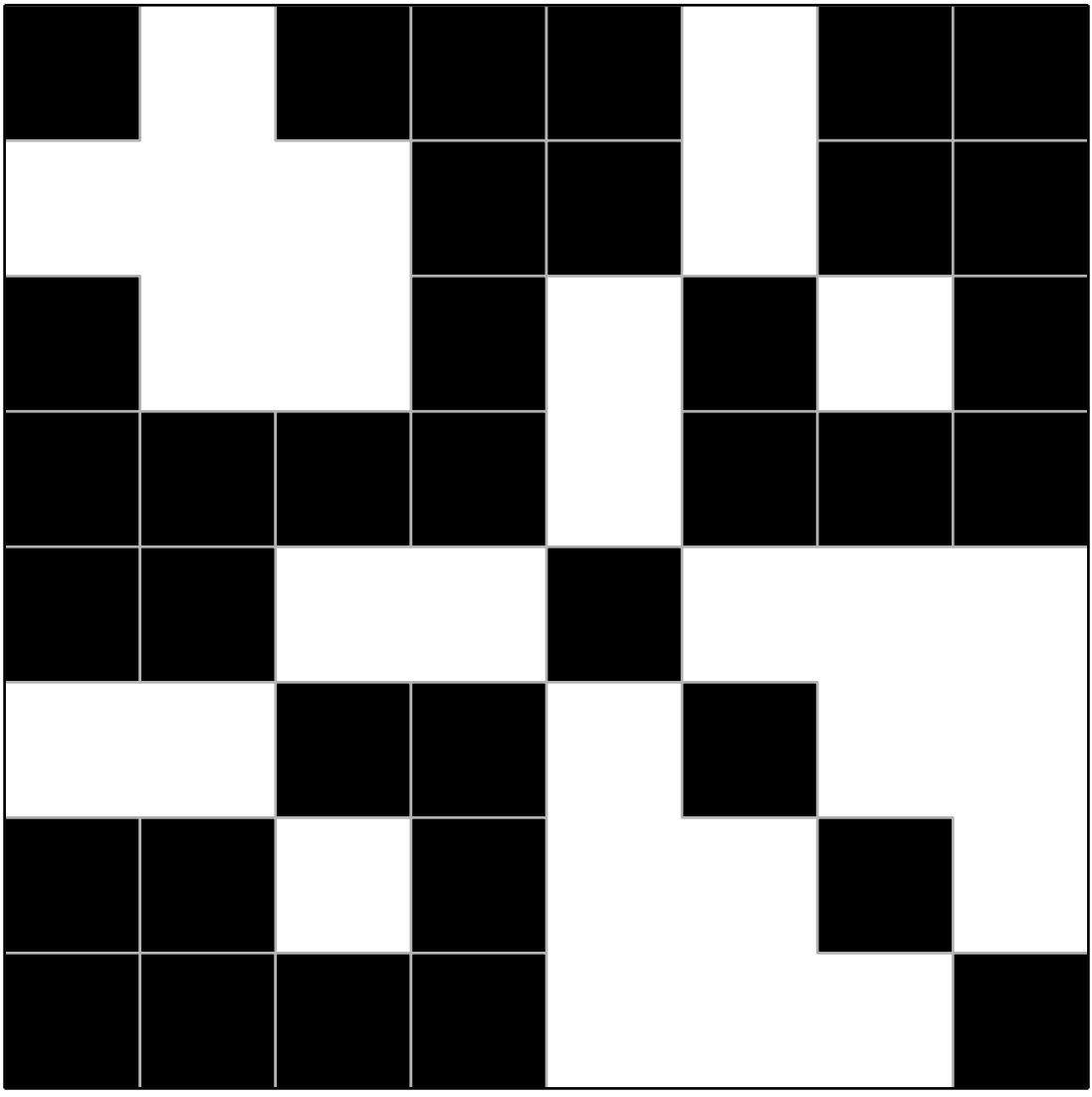

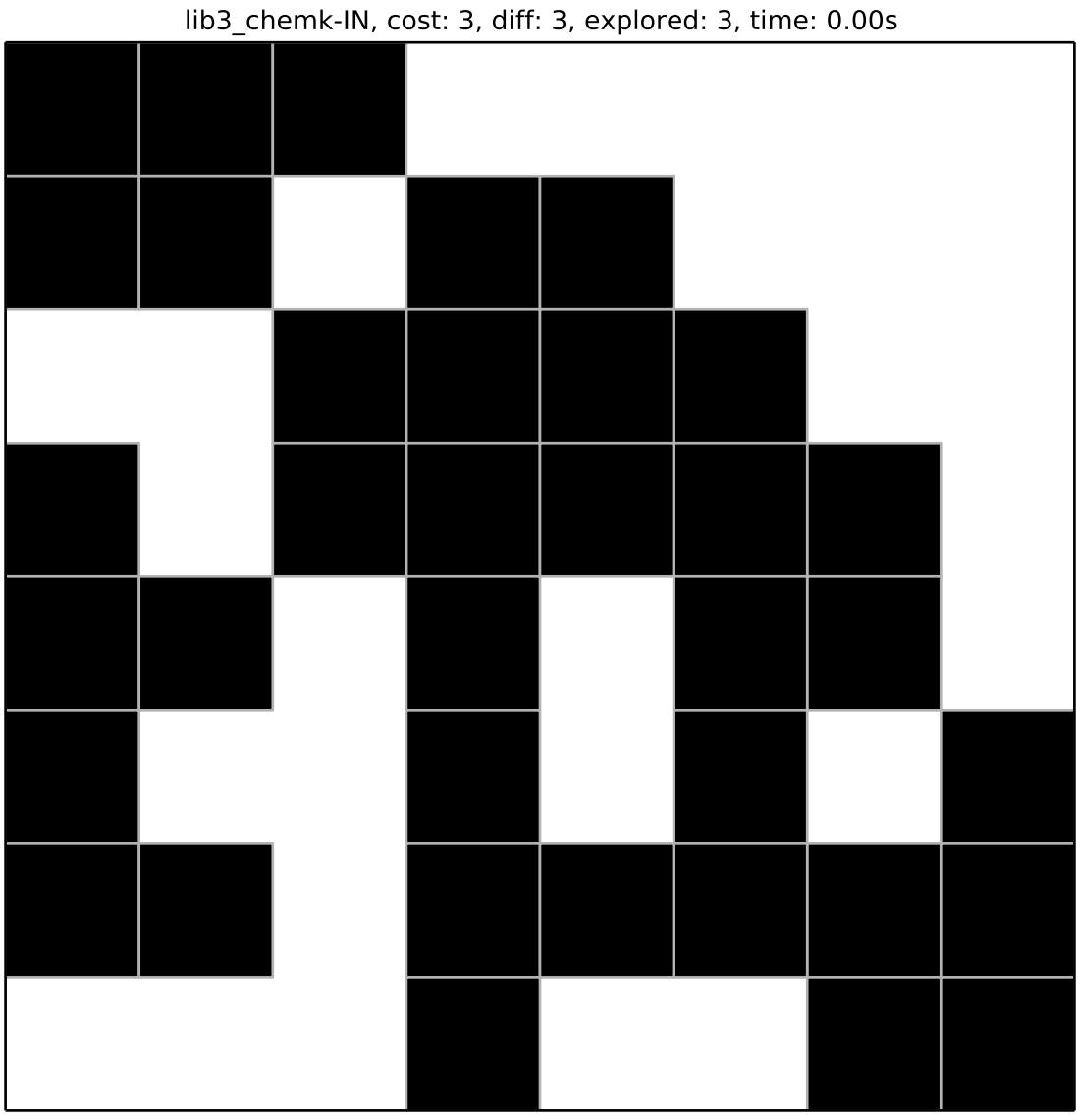
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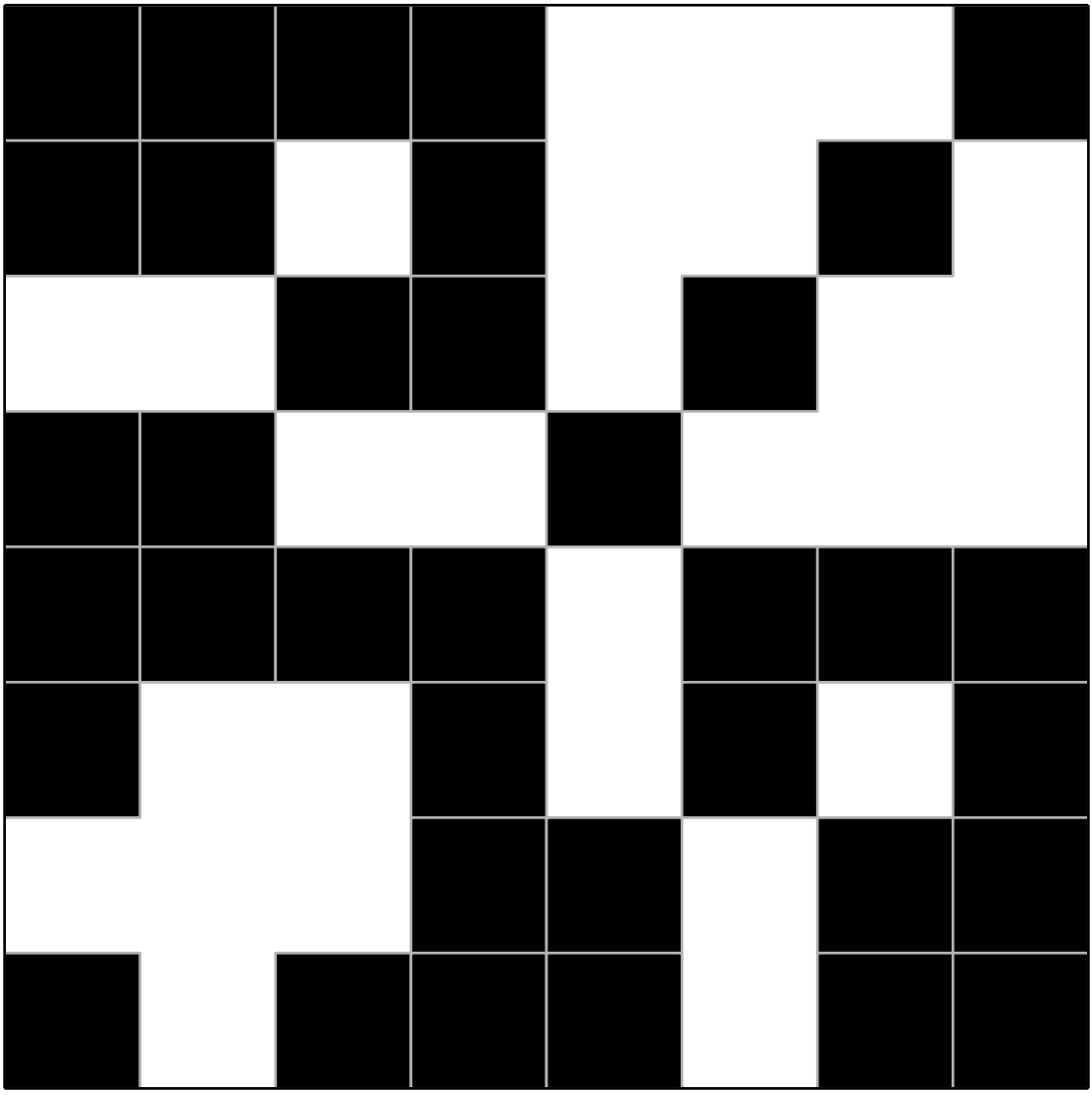
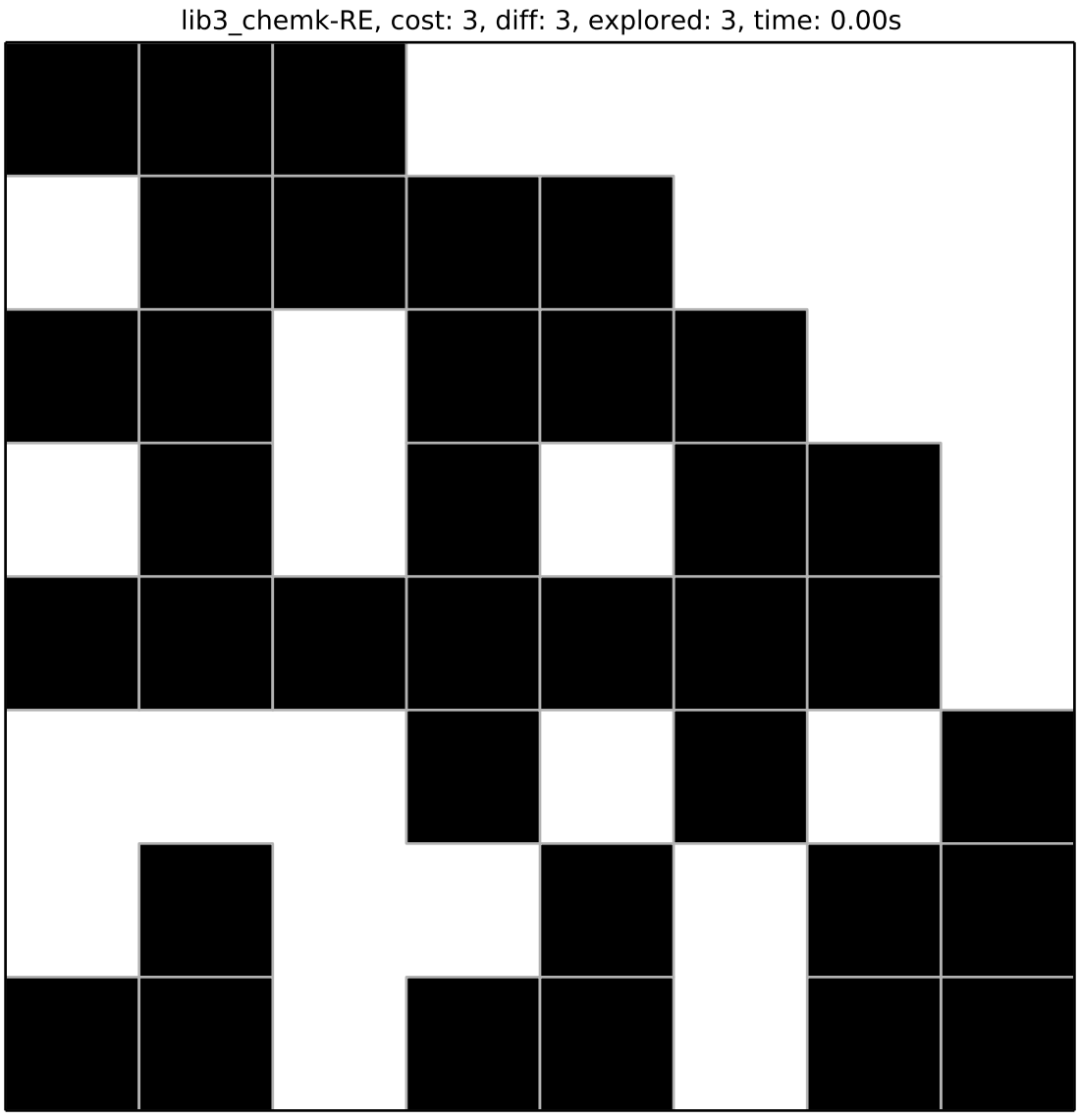
lib3_chemk-RE 8x8 (36) con: 4, var: 4

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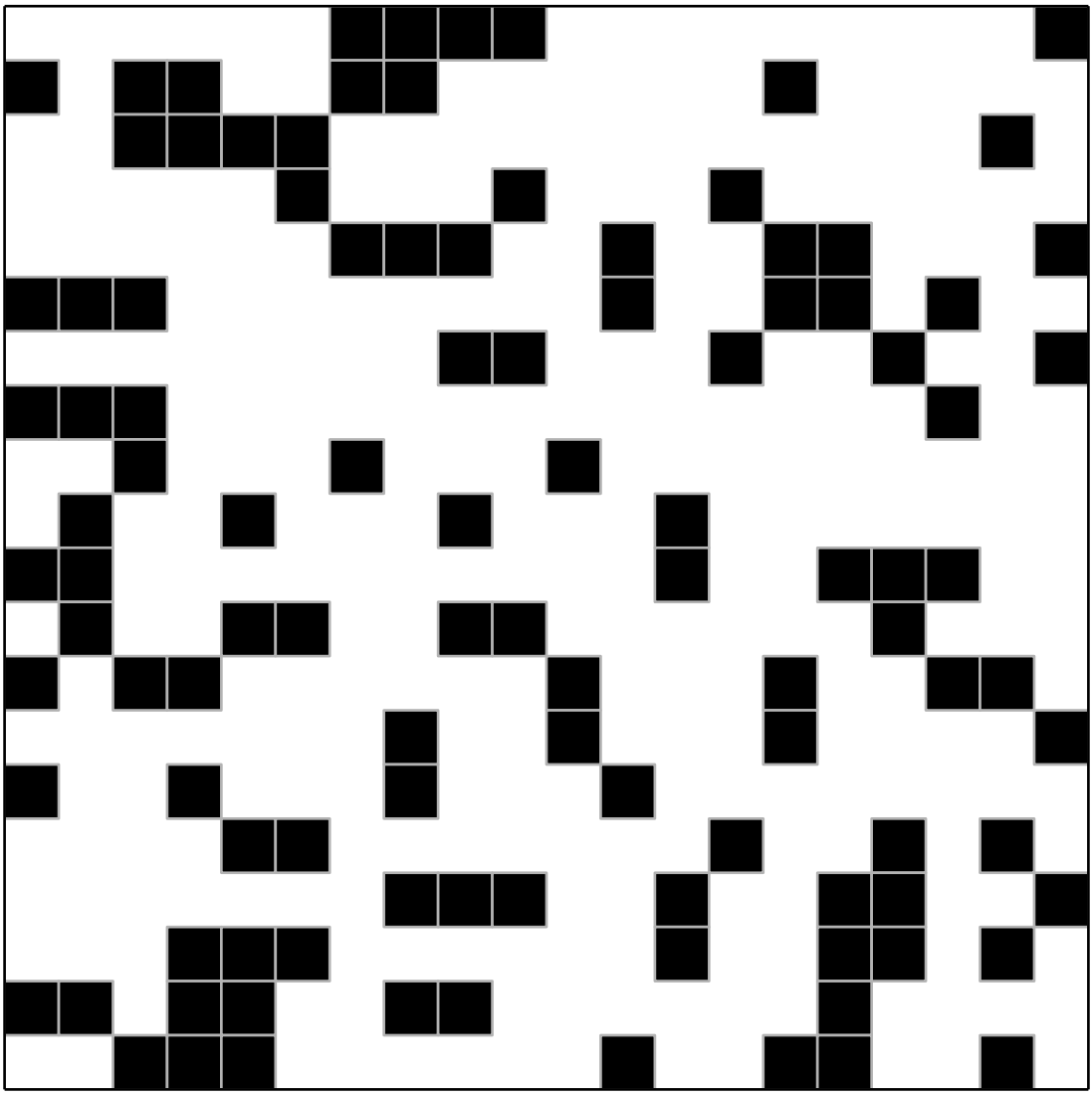
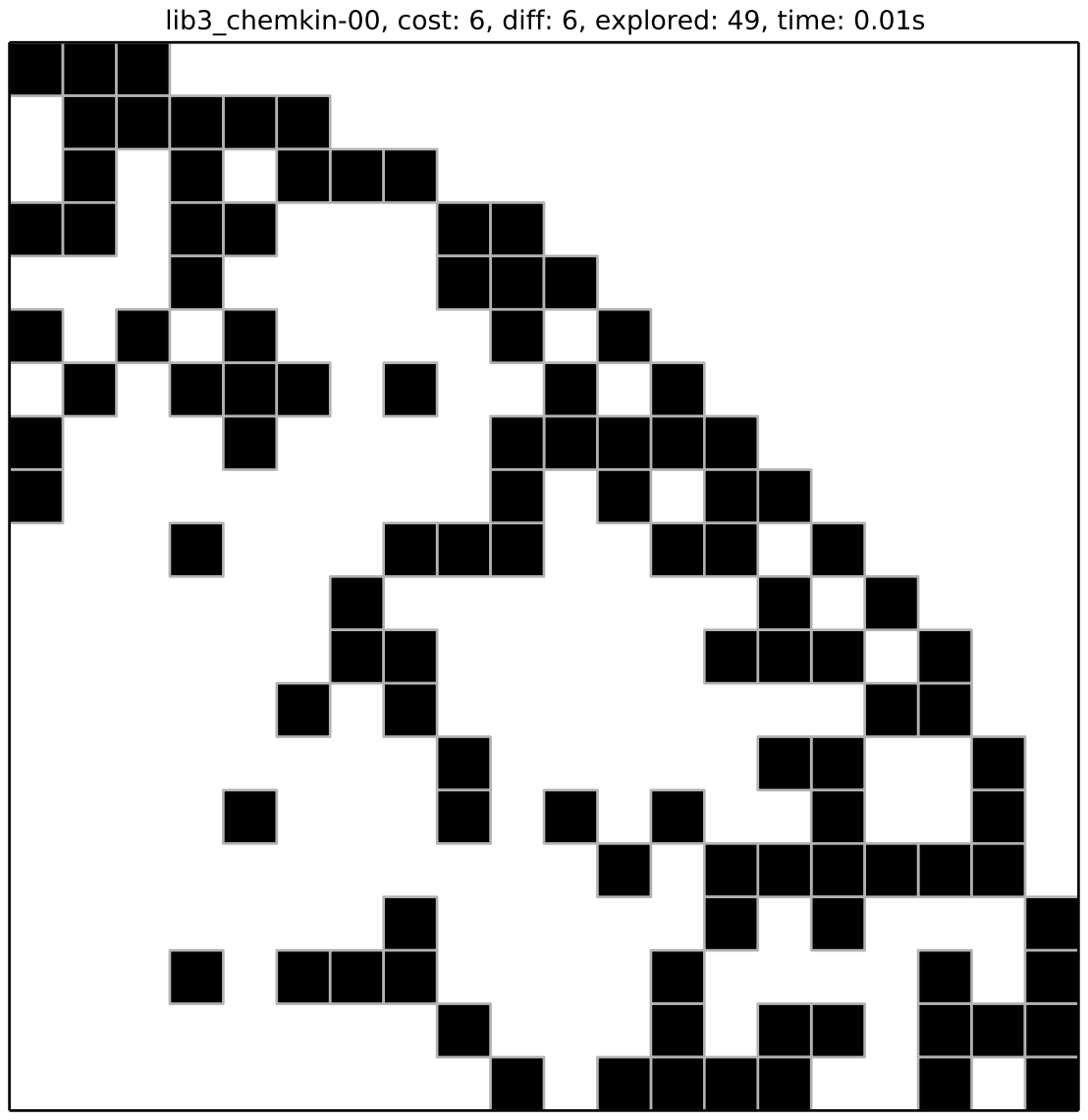

lib3_chemkin-00 20x20 (109) con: 10, var: 10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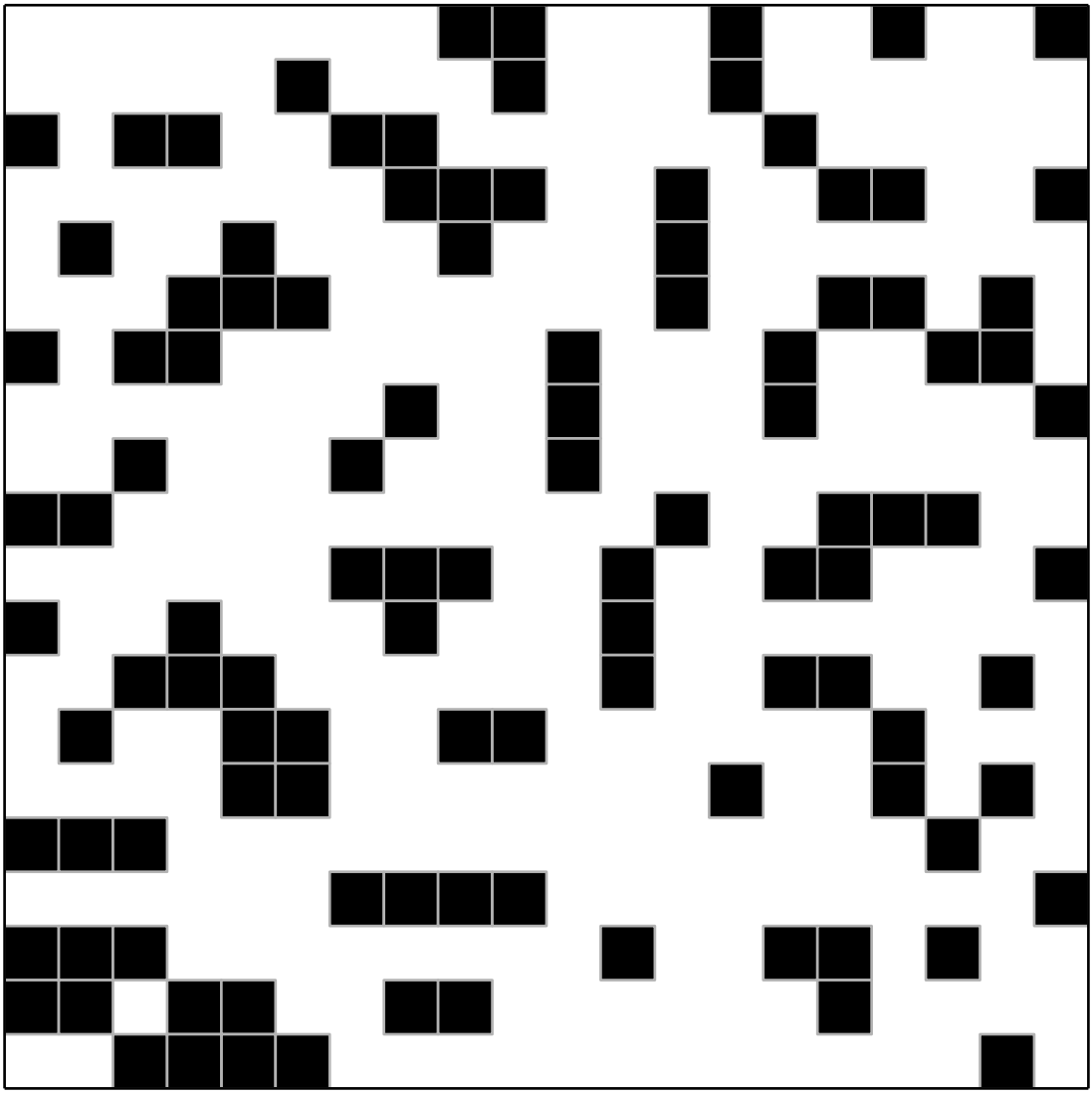
lib3_chemkin-01 20x20 (109) con: 10, var: 10



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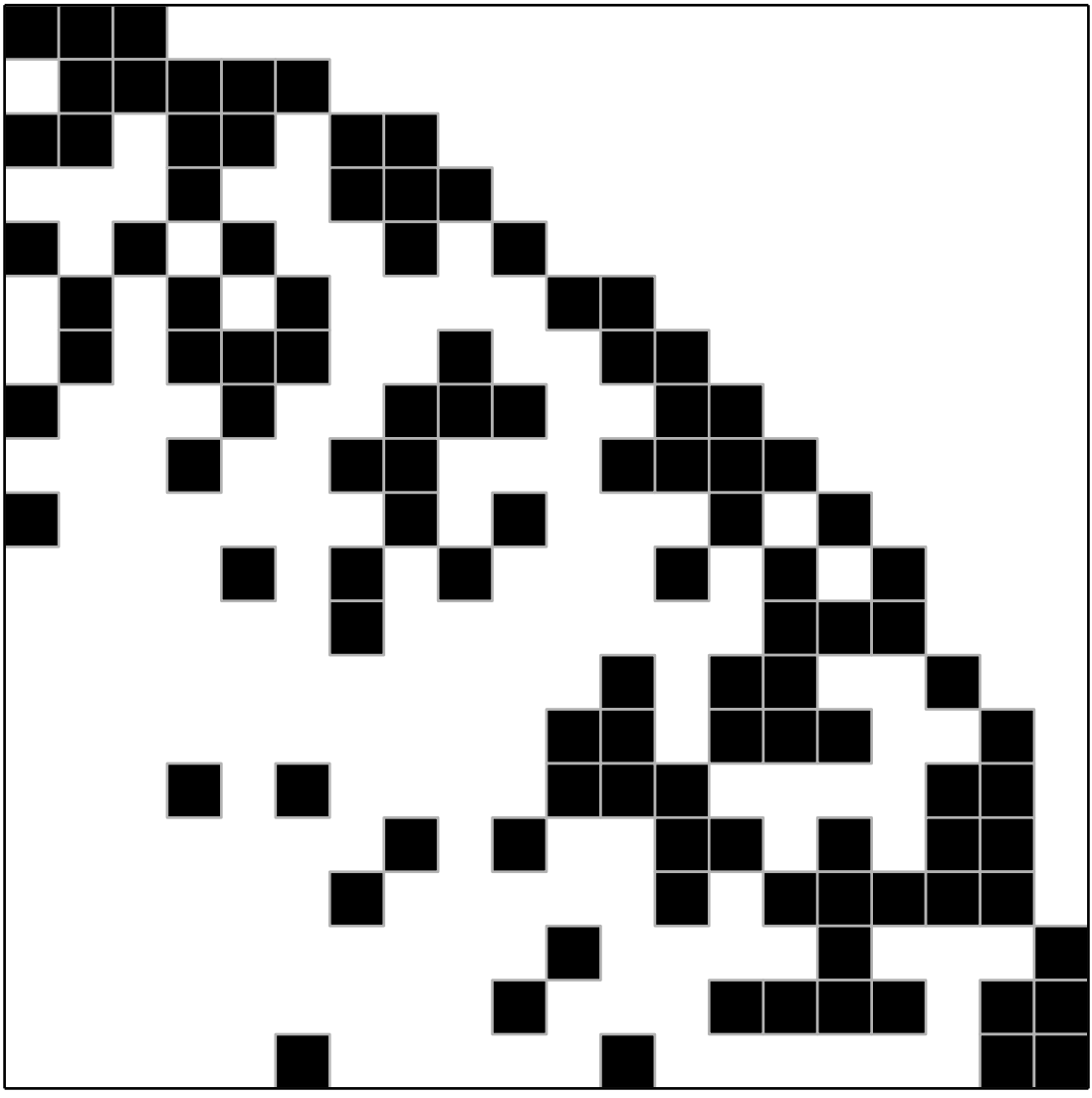

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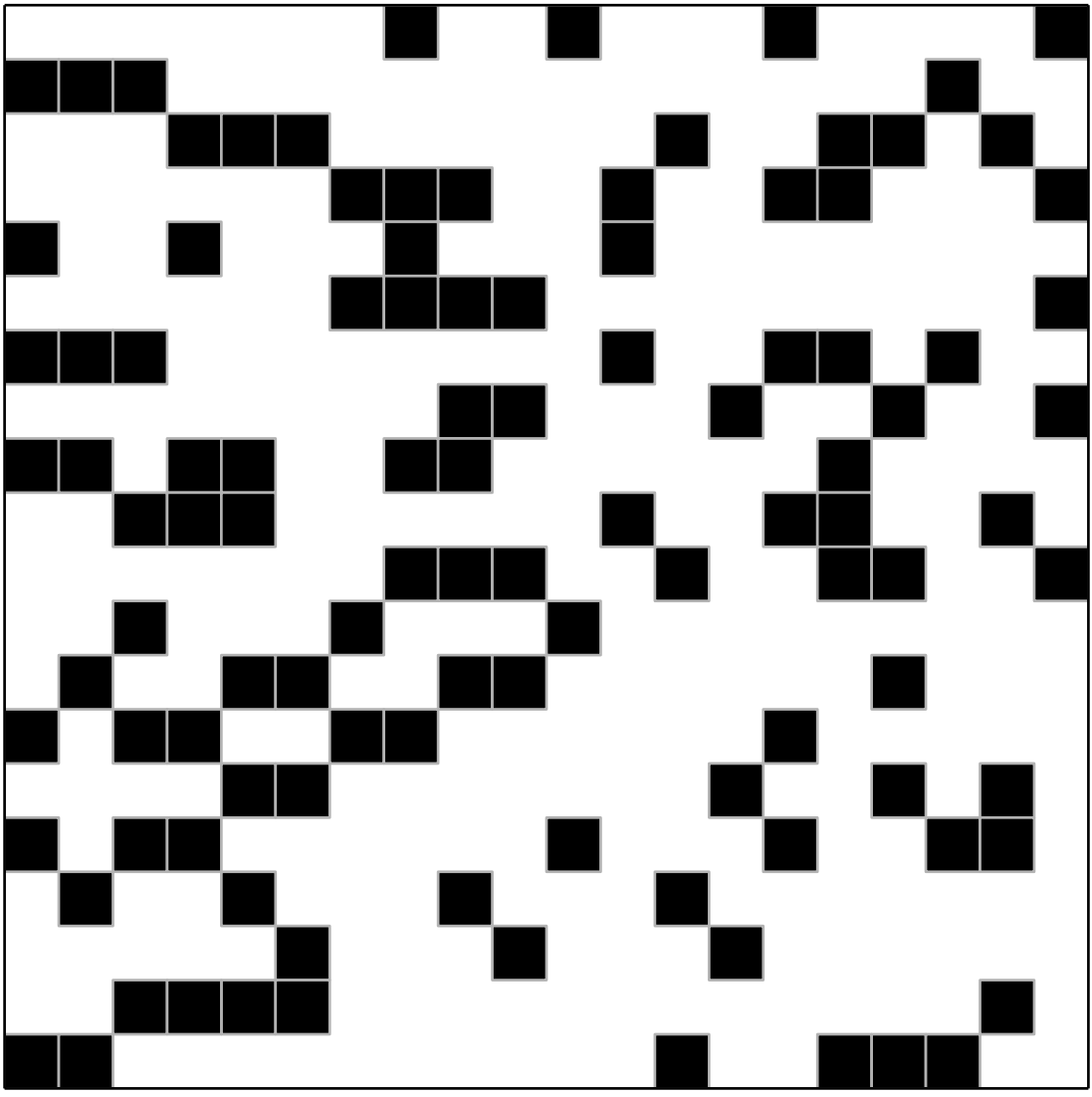

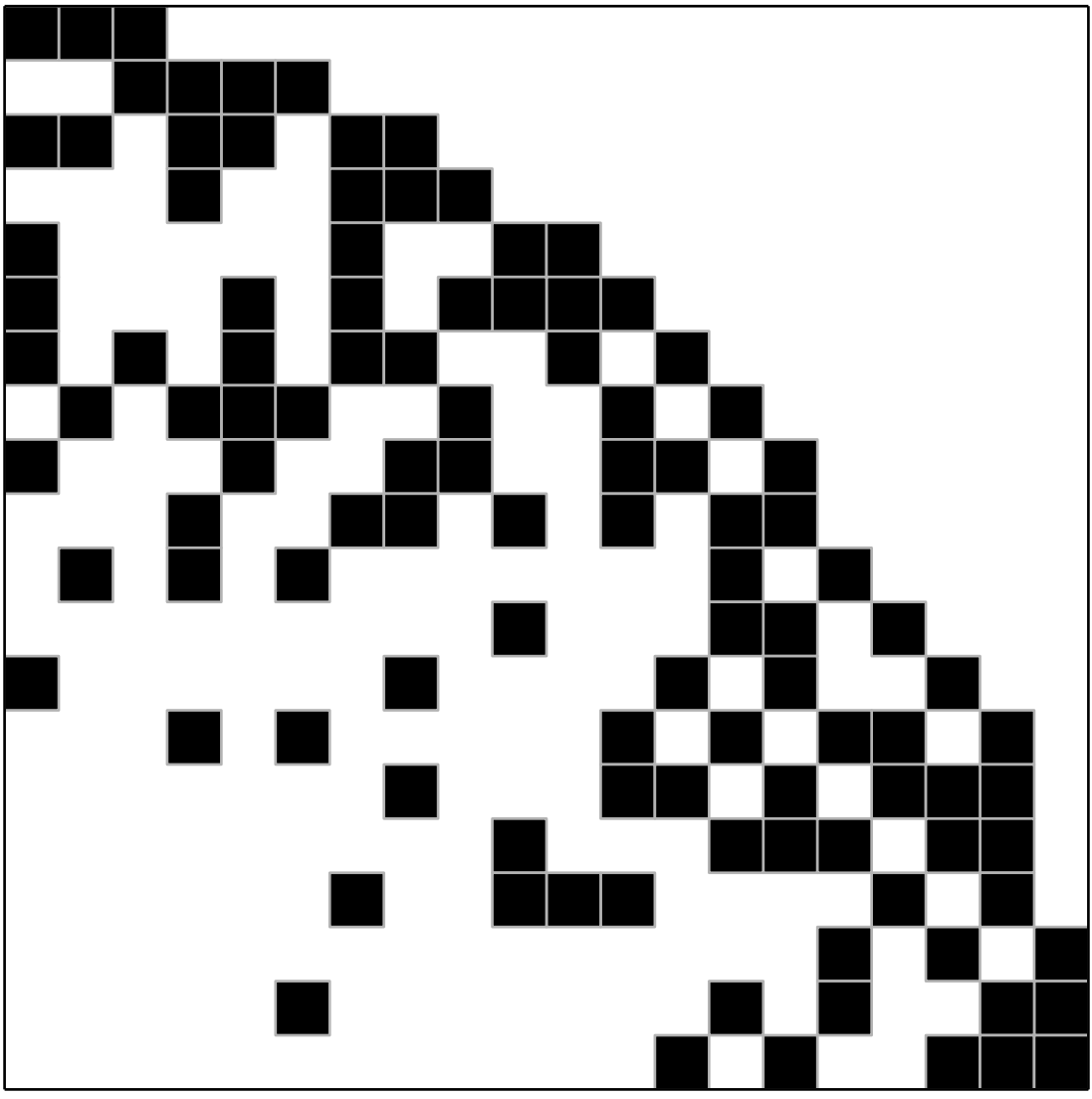
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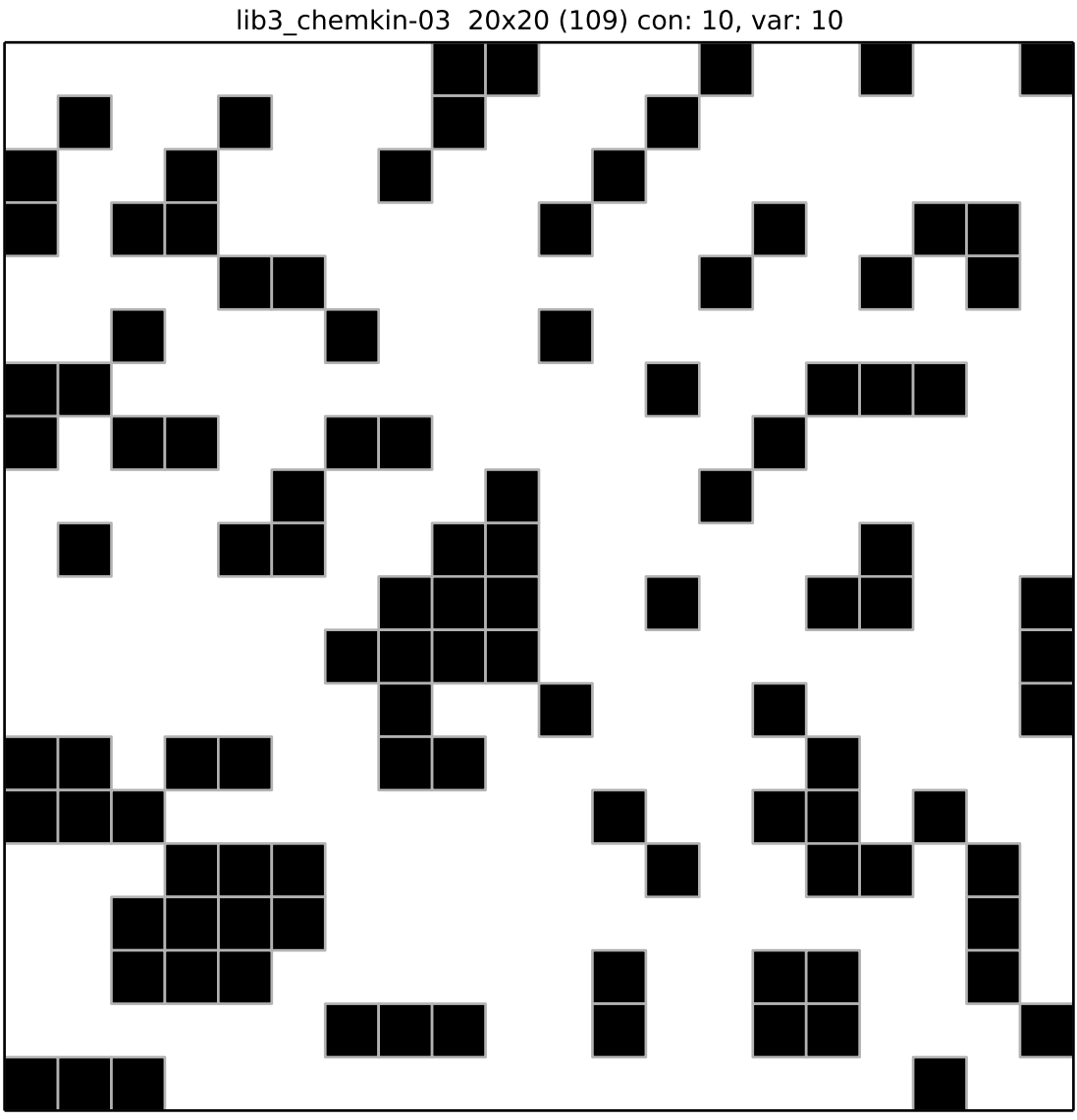
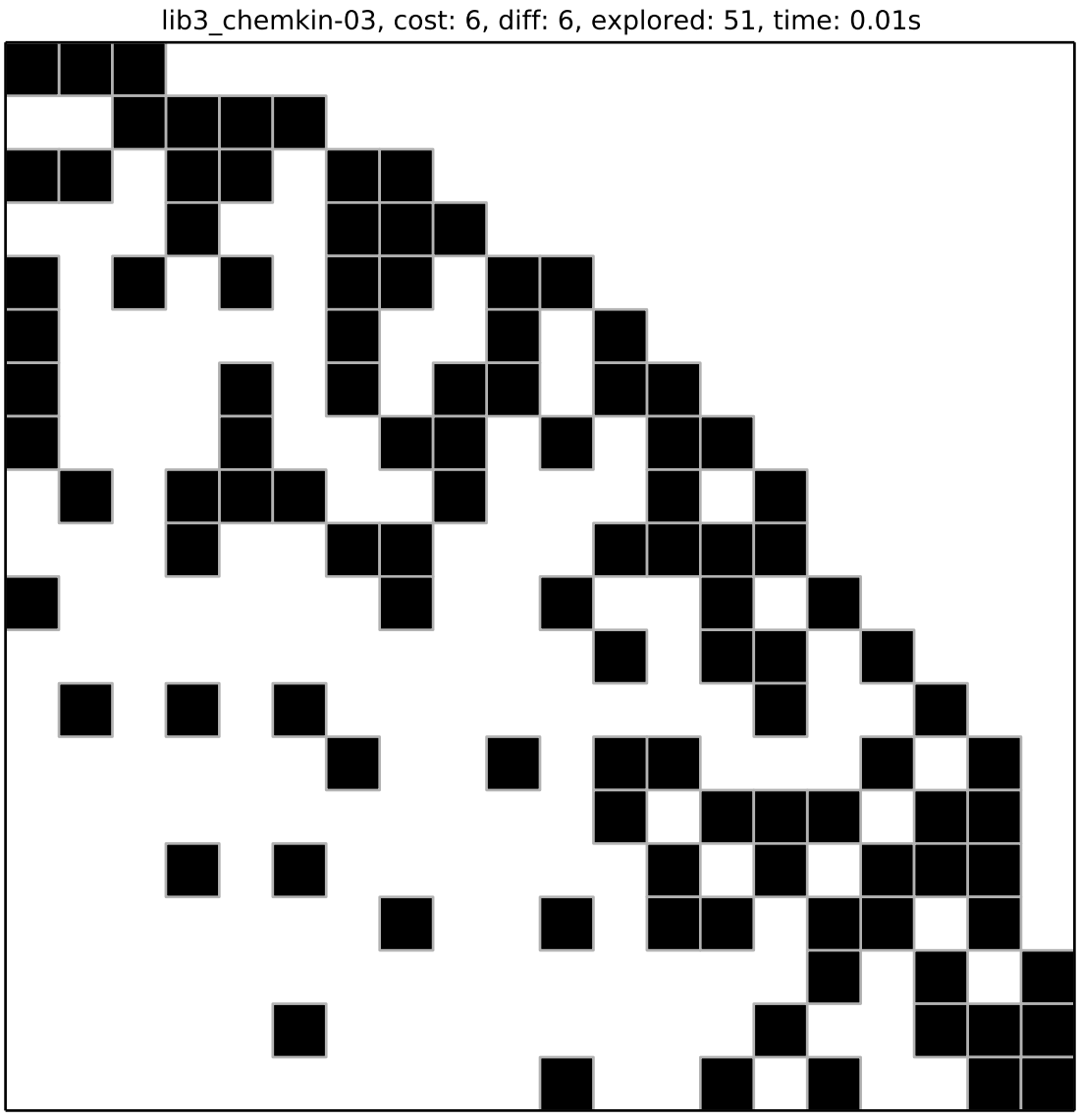
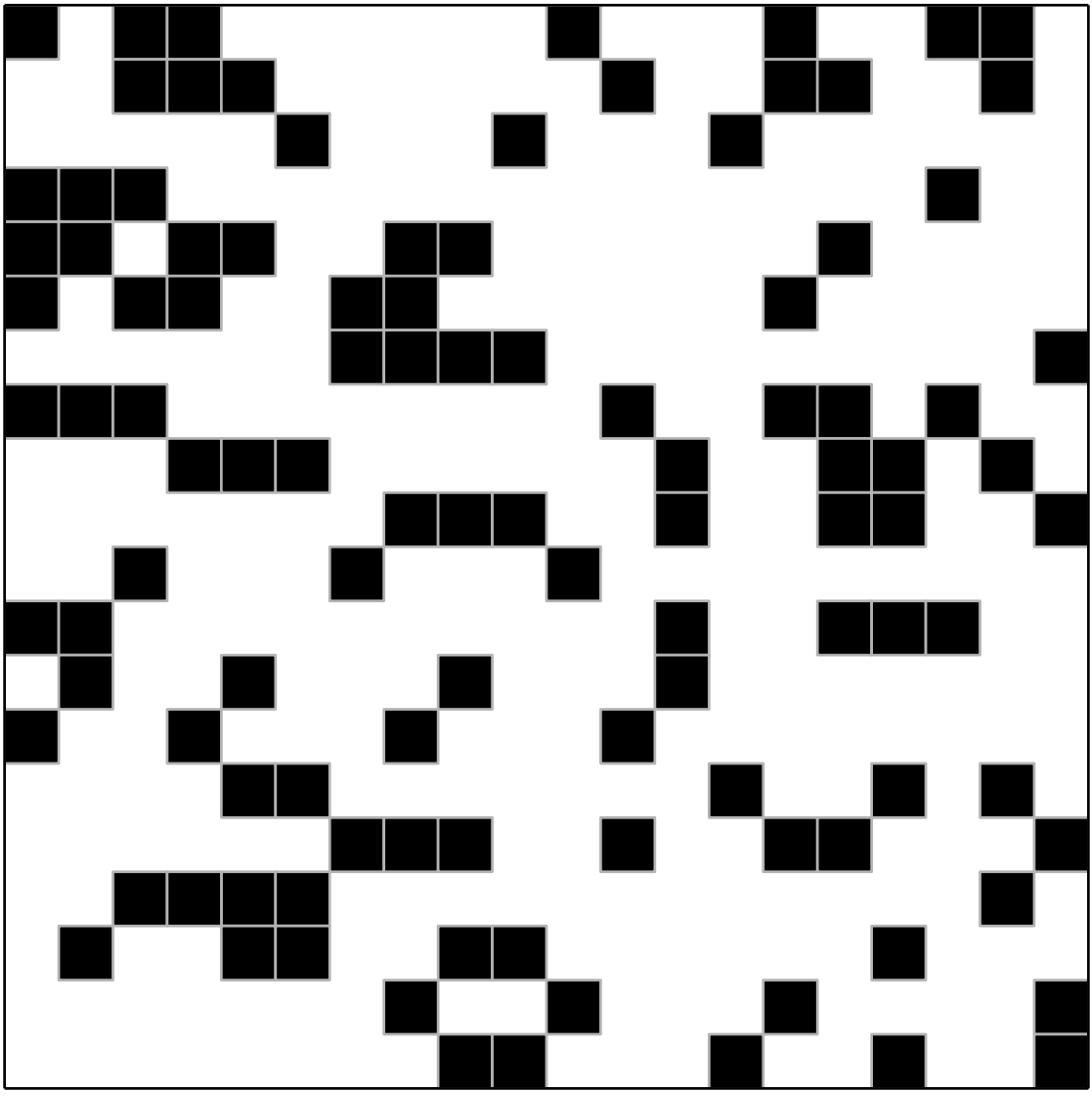
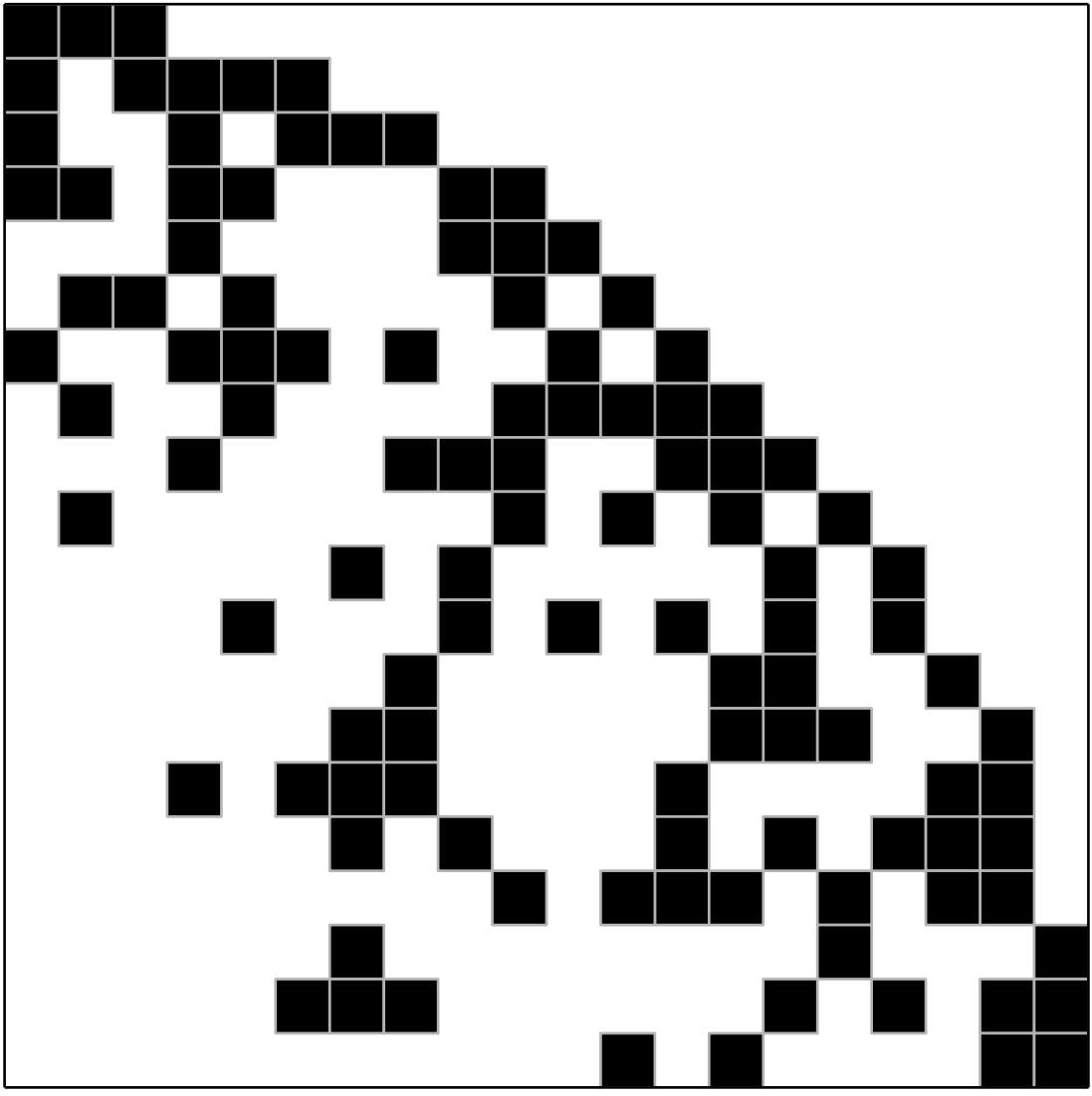

lib3_chemkin-03 20x20 (109) con: 10, var: 10


lib3_chemkin-03, cost: 6, diff: 6, explored: 51, time: 0.01s

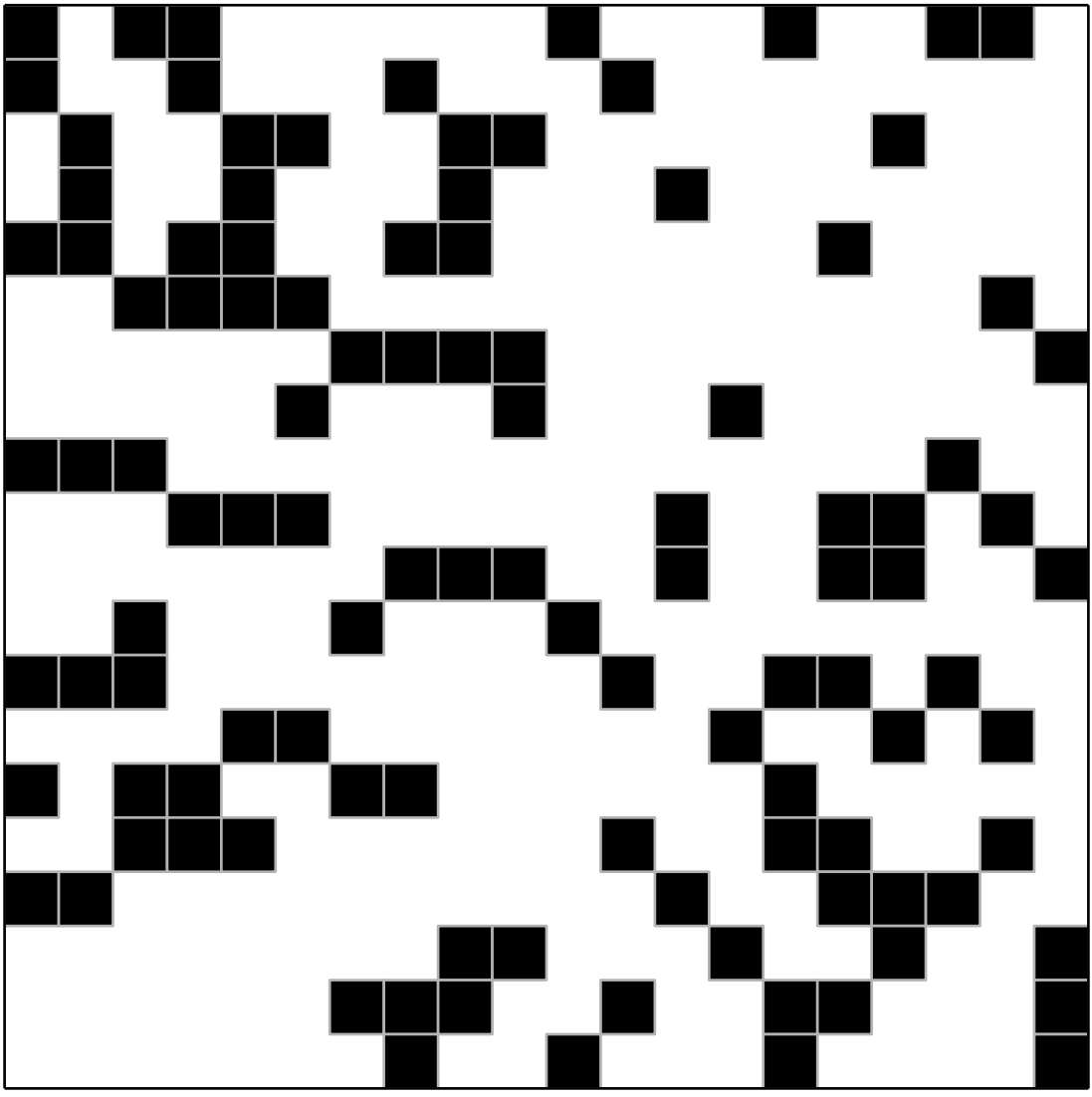
lib3_chemkin-04 20x20 (109) con: 10, var: 10



lib3_chemkin-04, cost: 6, diff: 6, explored: 49, time: 0.01s



lib3_chemkin-05 20x20 (109) con: 10, var: 10



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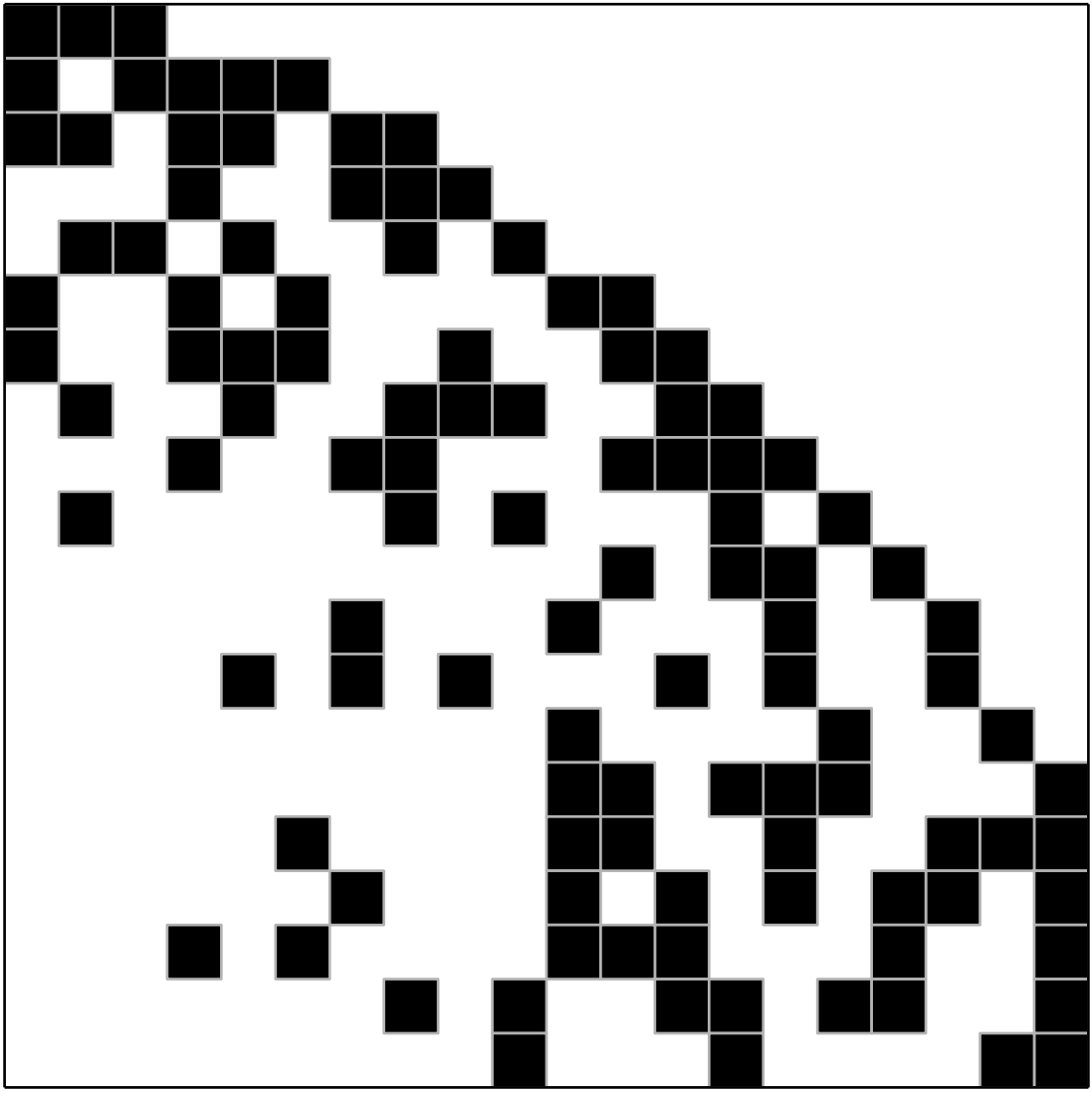
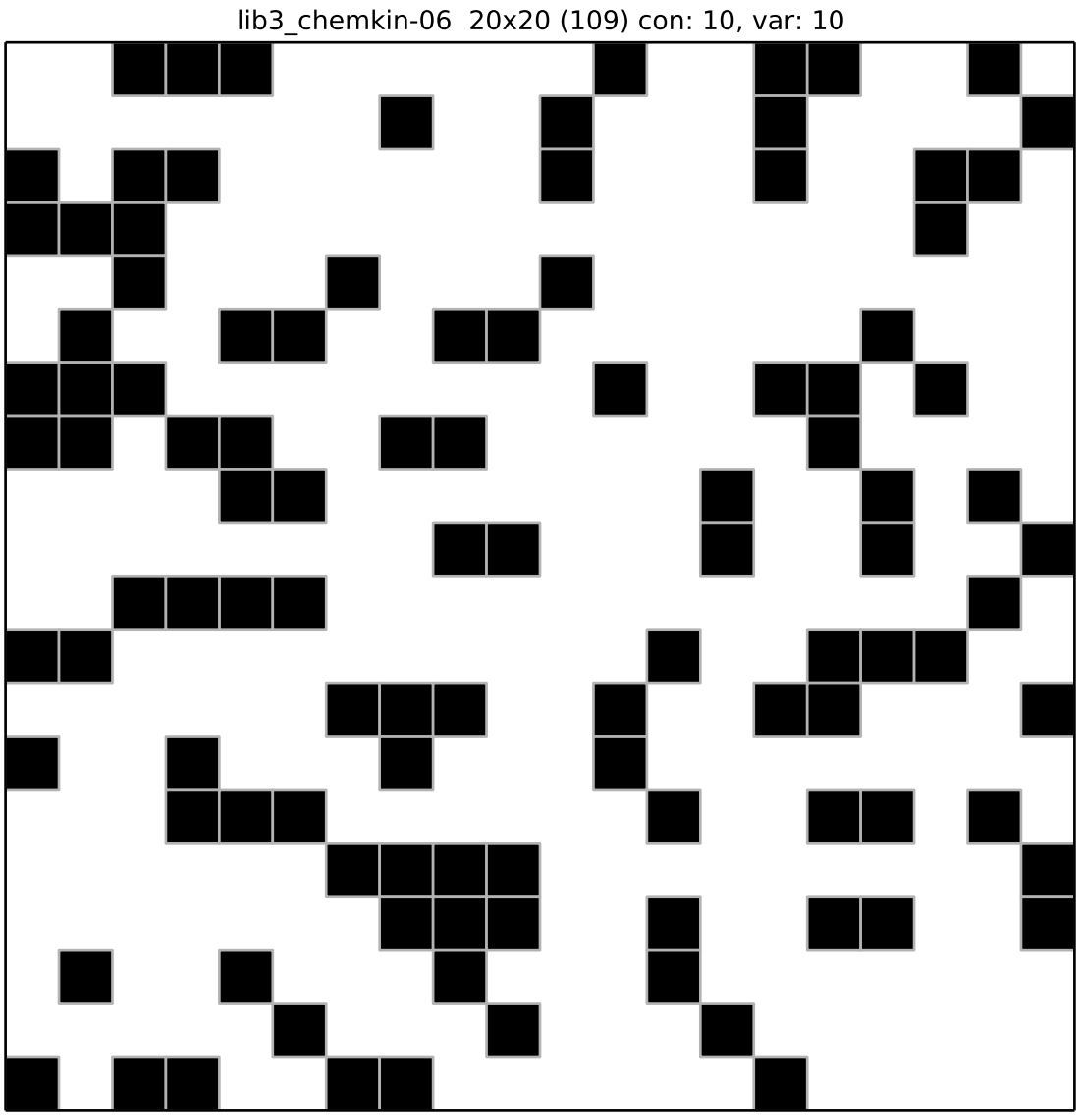
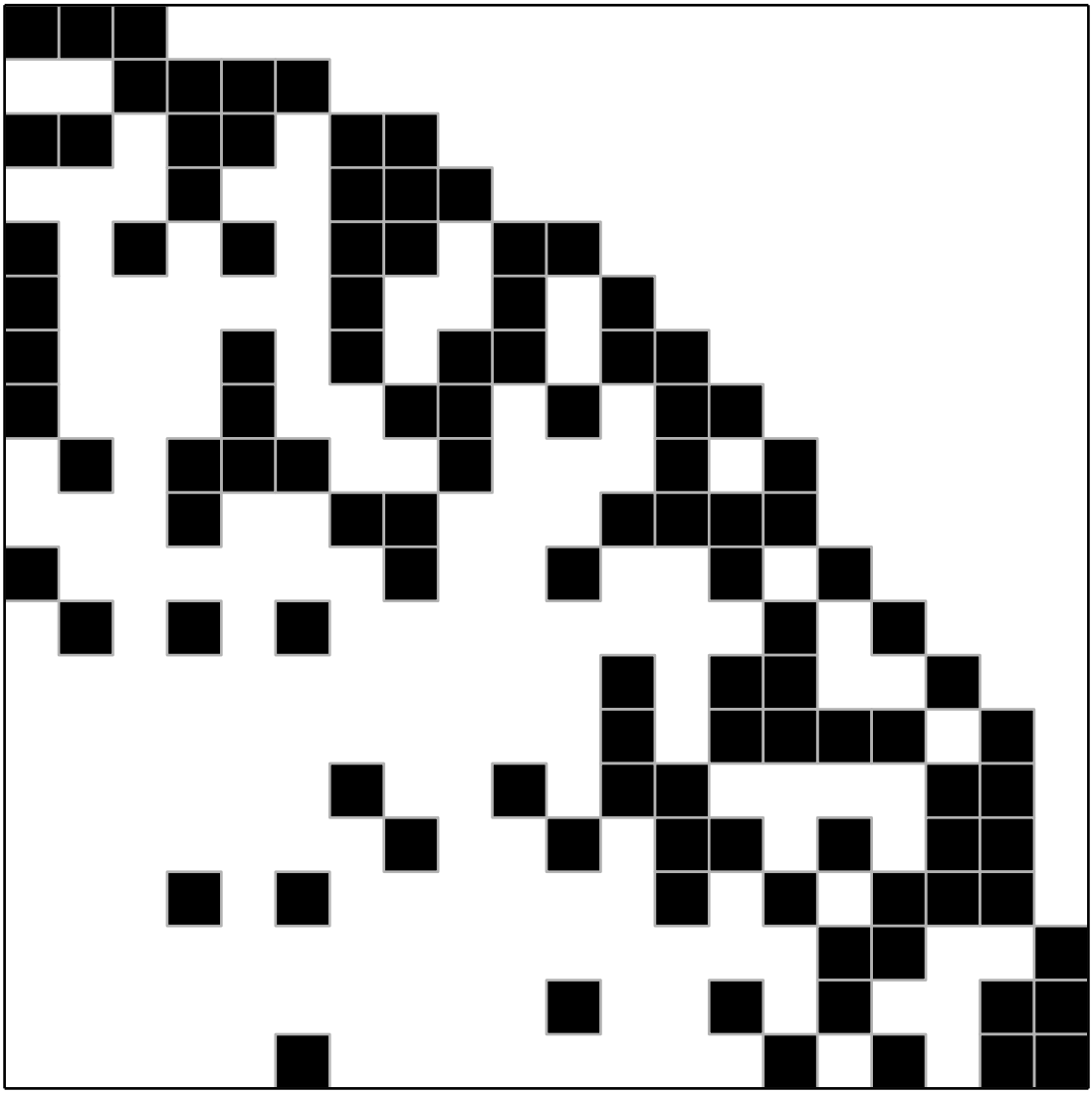
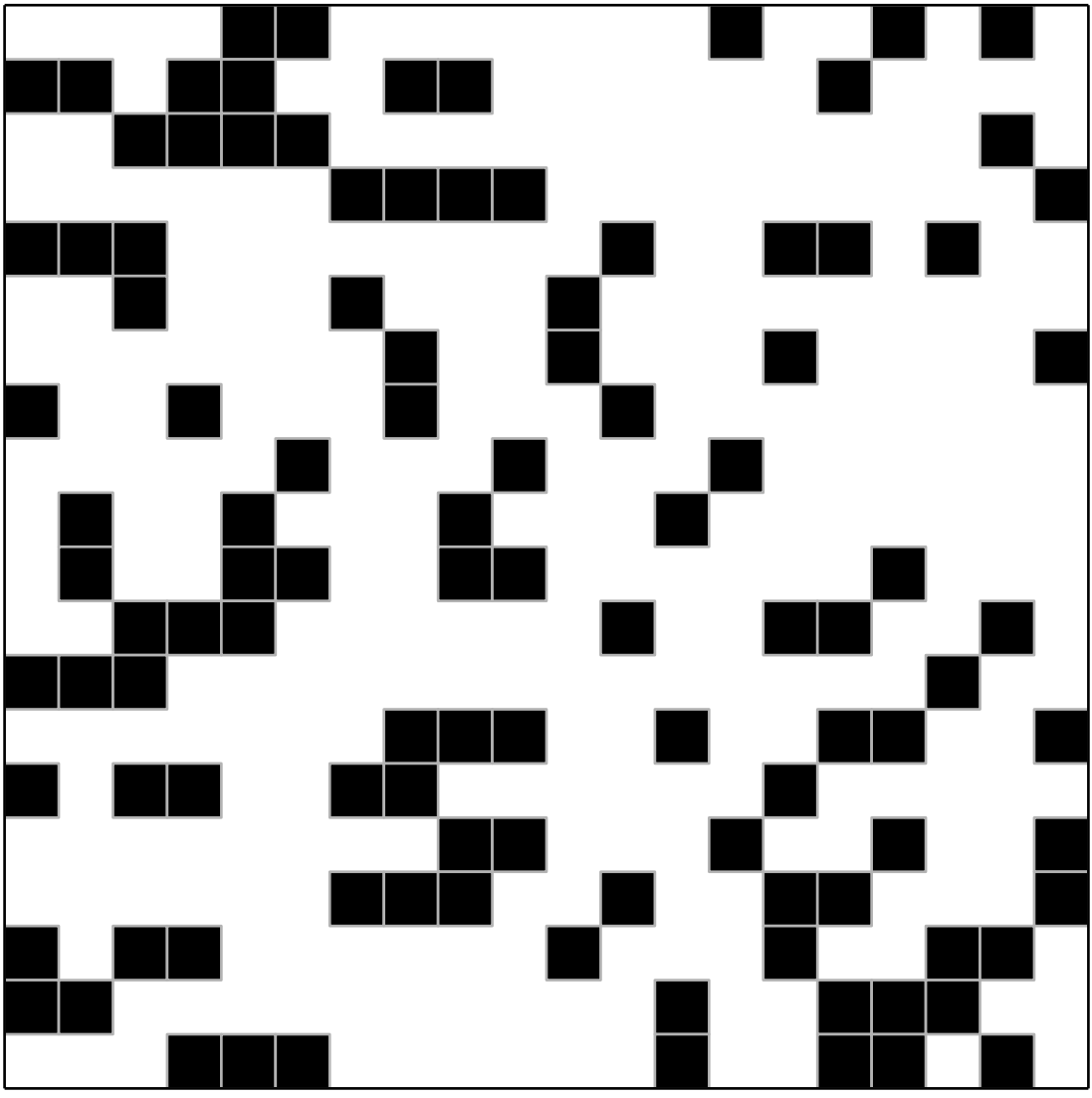



lib3_chemkin-06 20x20 (109) con: 10, var: 10

lib3_chemkin-06, cost: 6, diff: 6, explored: 53, time: 0.01s



lib3_chemkin-07 20x20 (109) con: 10, var: 10



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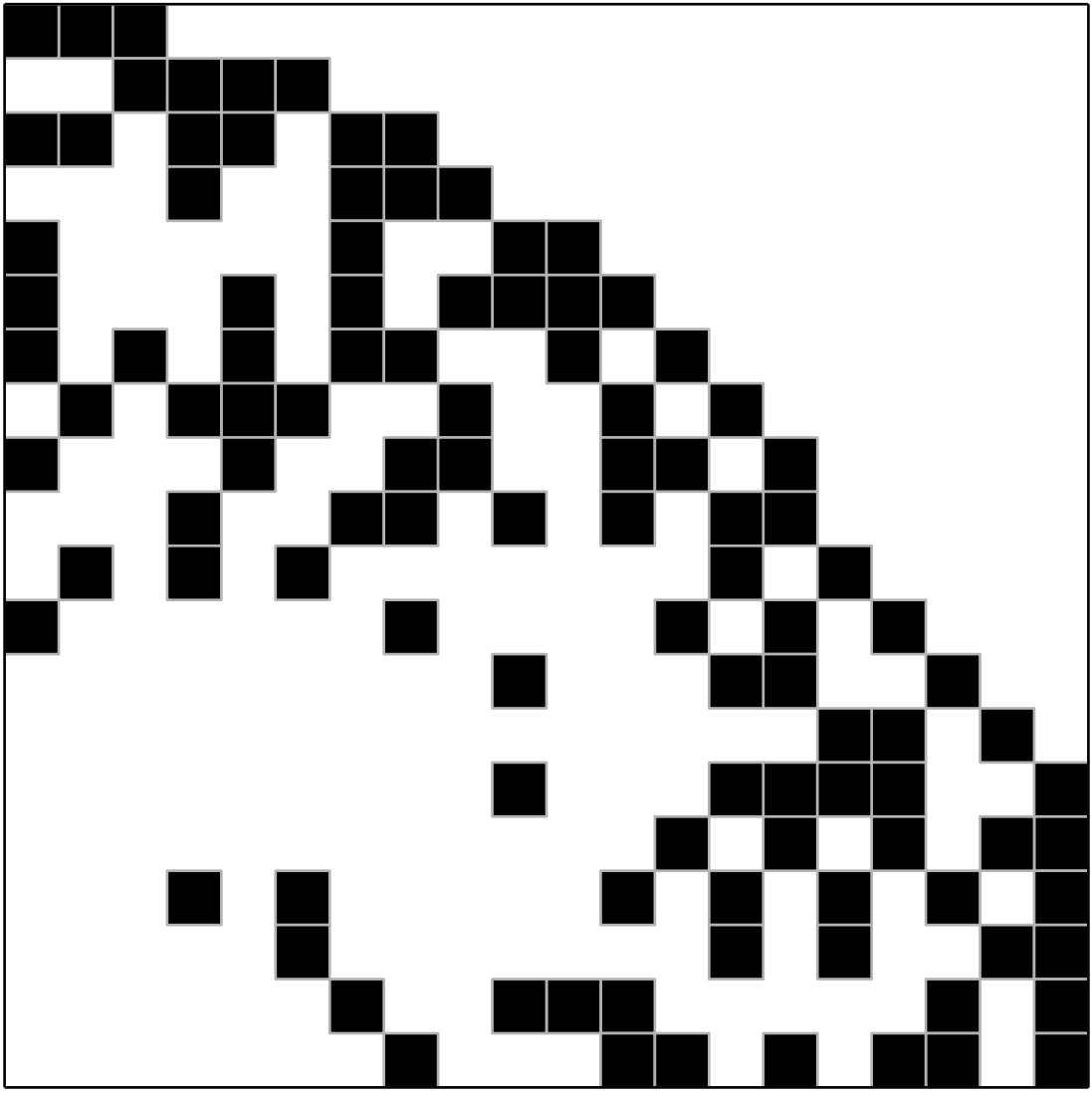
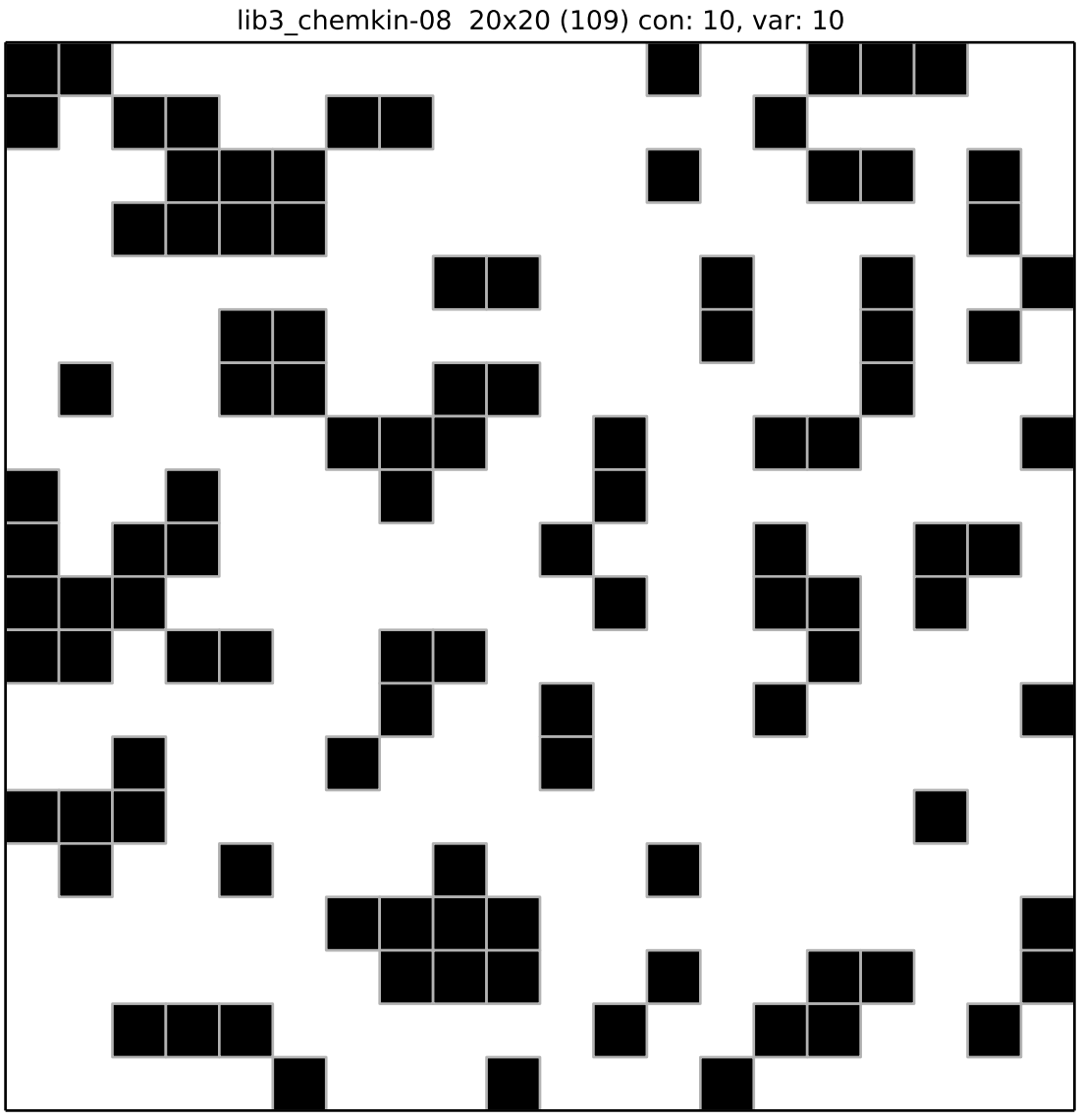
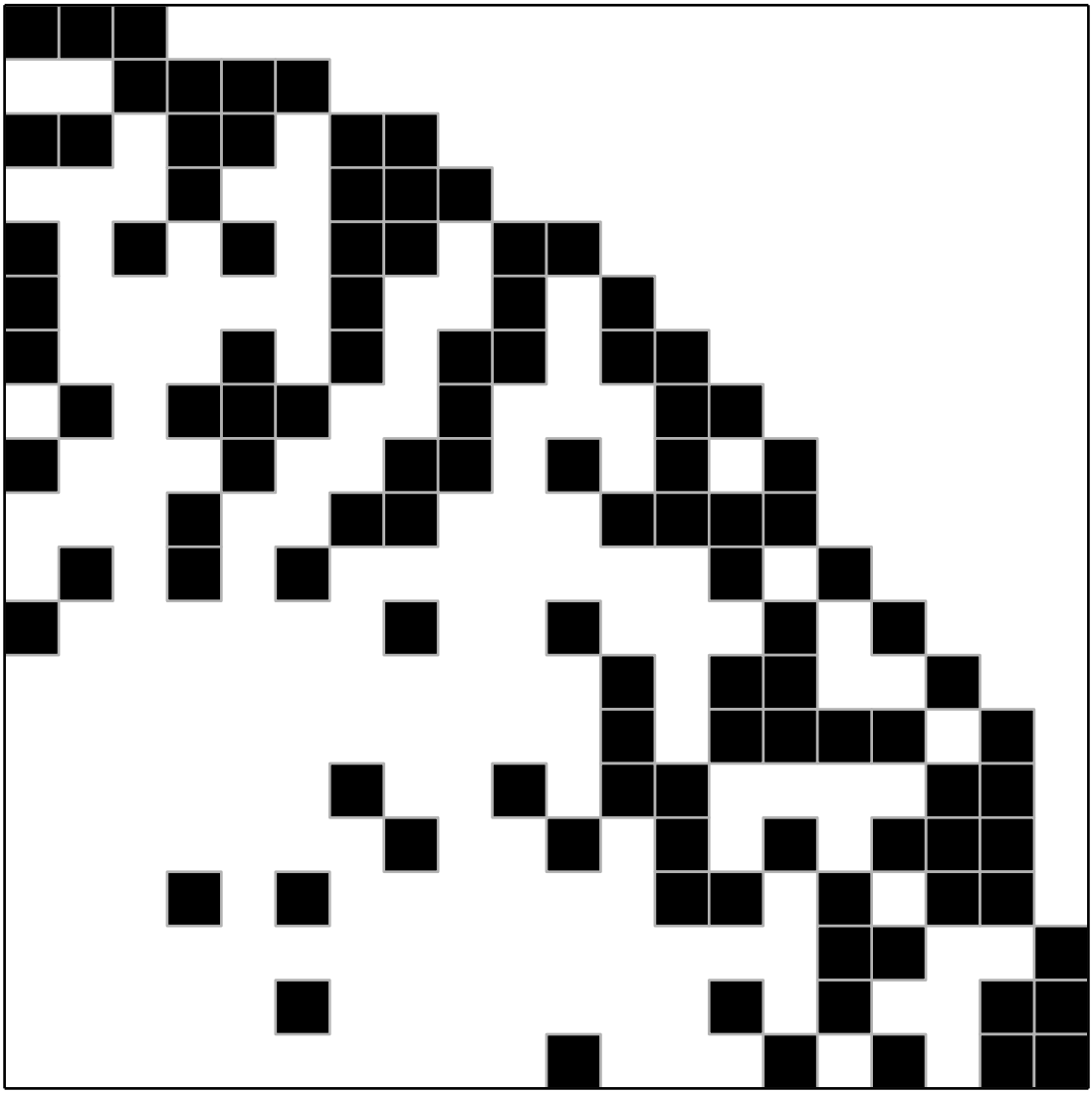
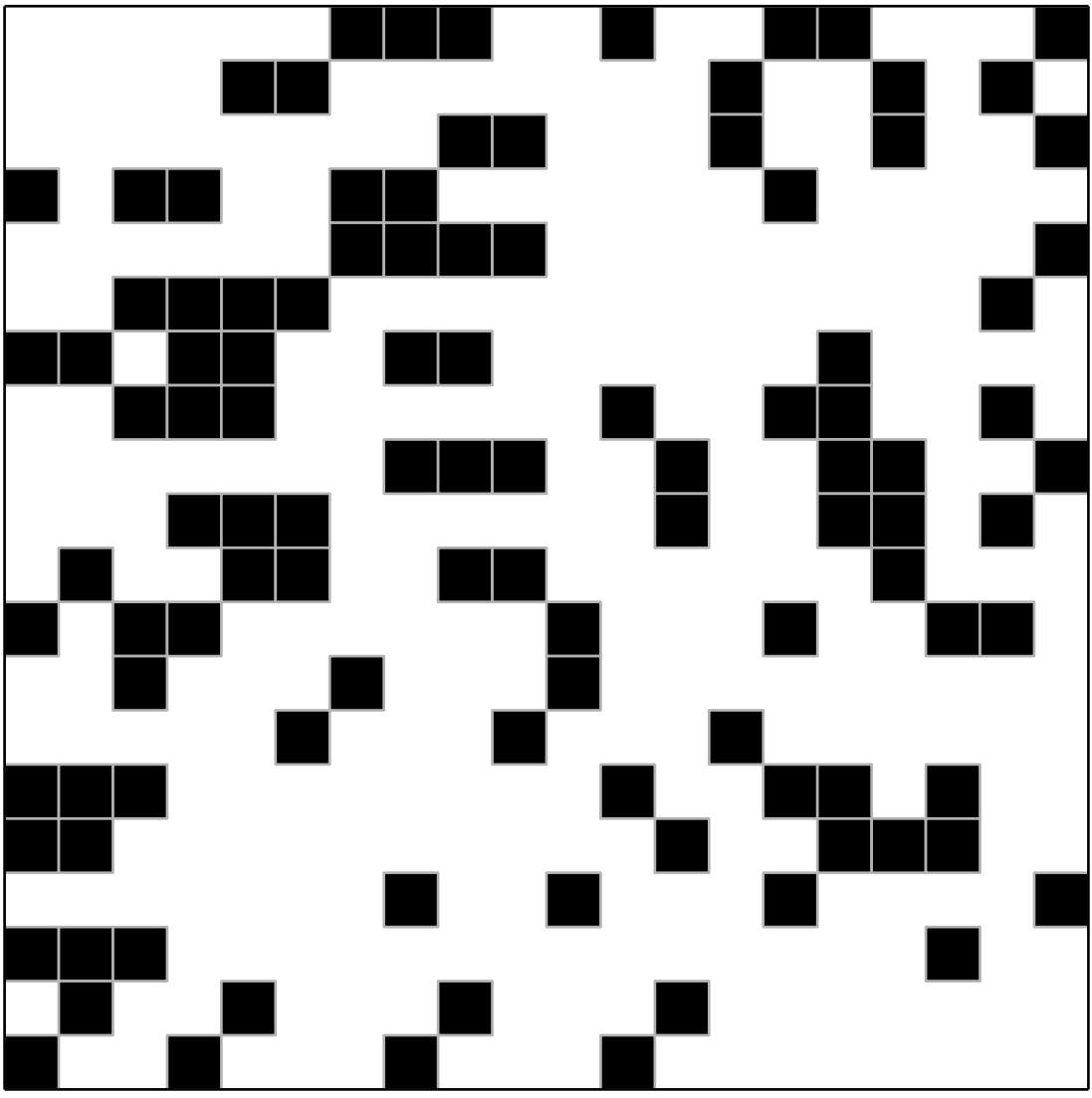



lib3_chemkin-08 20x20 (109) con: 10, var: 10

lib3_chemkin-08, cost: 6, diff: 6, explored: 51, time: 0.01s




lib3_chemkin-09 20x20 (109) con: 10, var: 10

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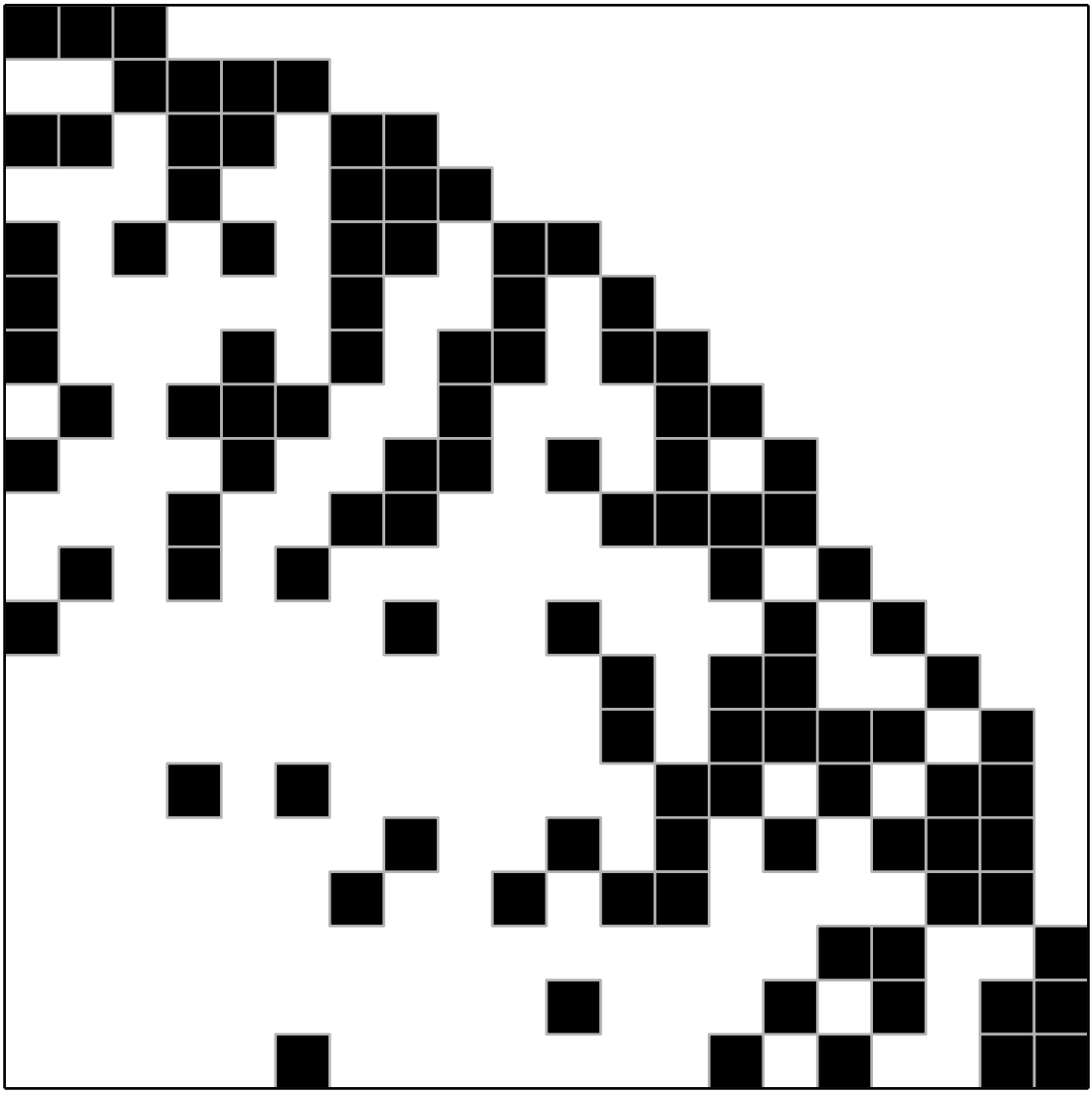
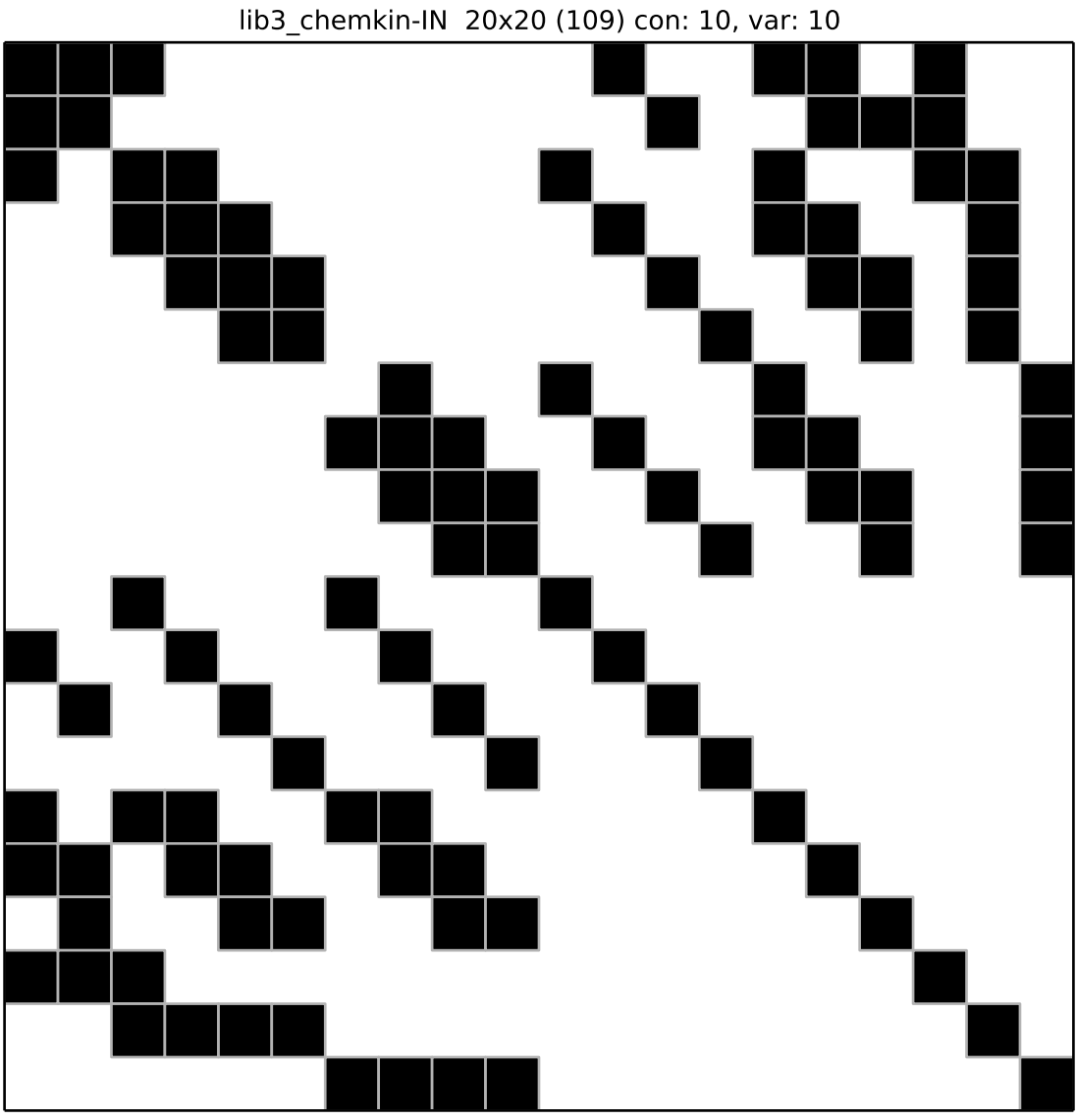
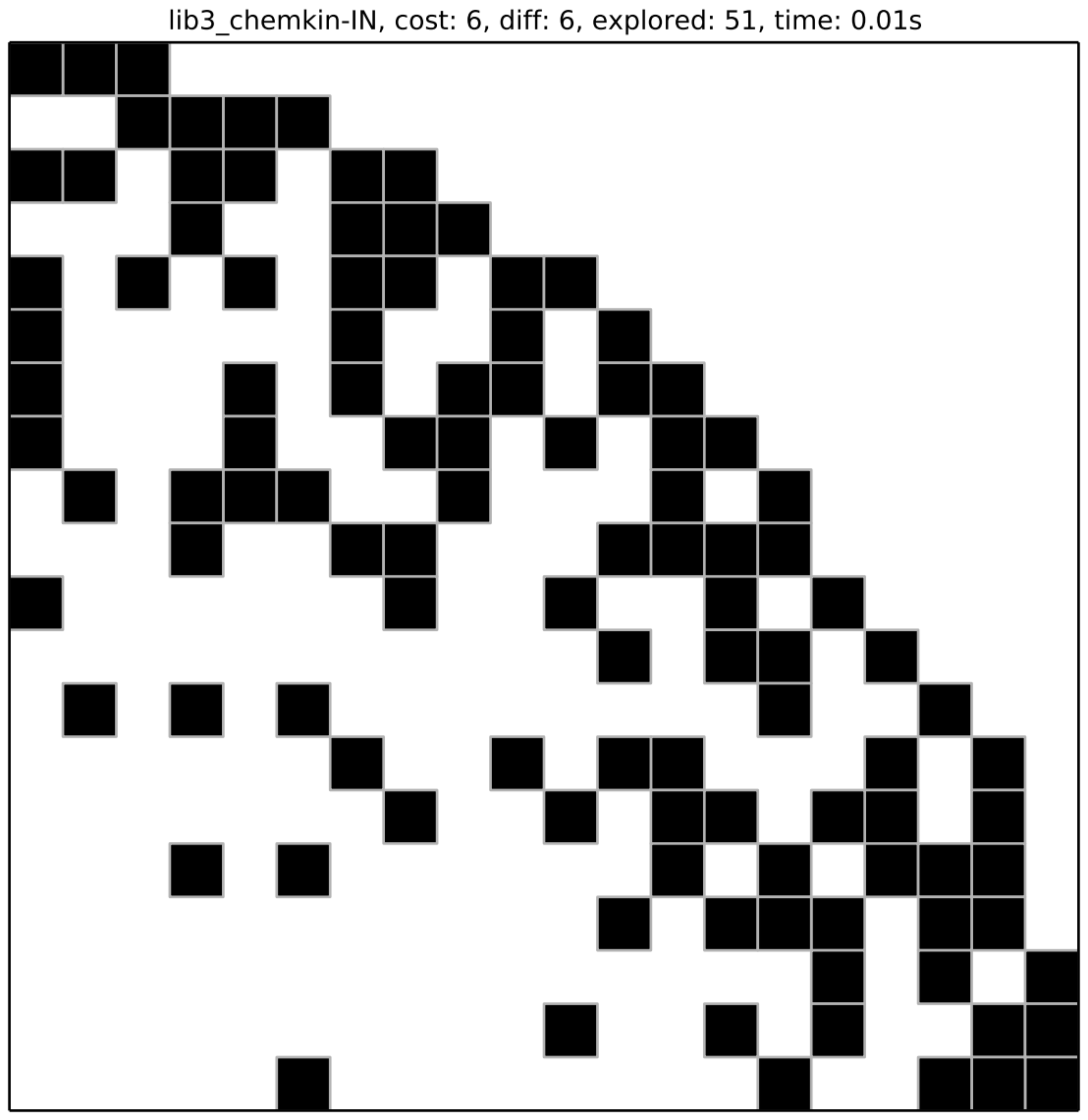



lib3_chemkin-IN 20x20 (109) con: 10, var: 10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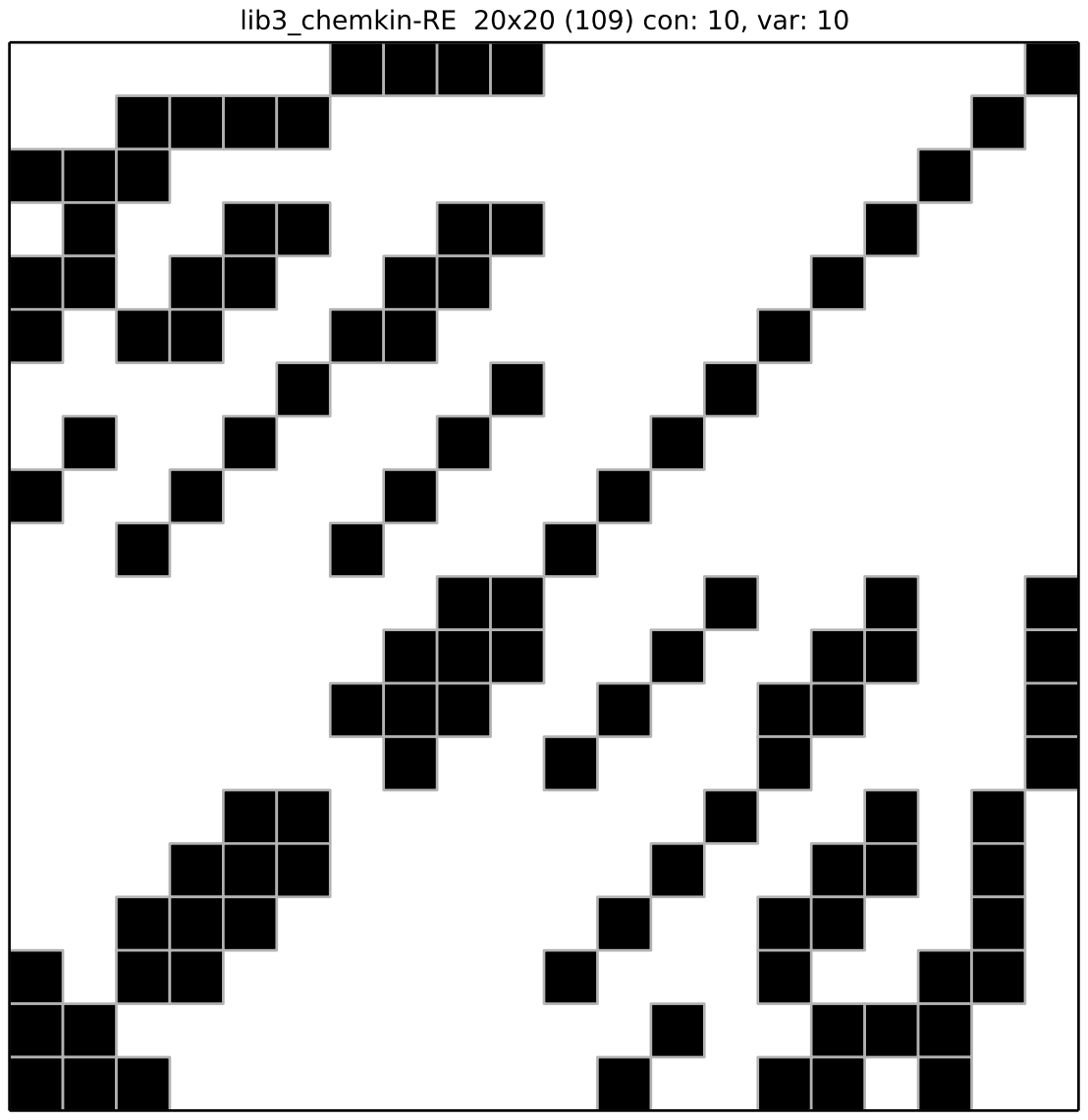
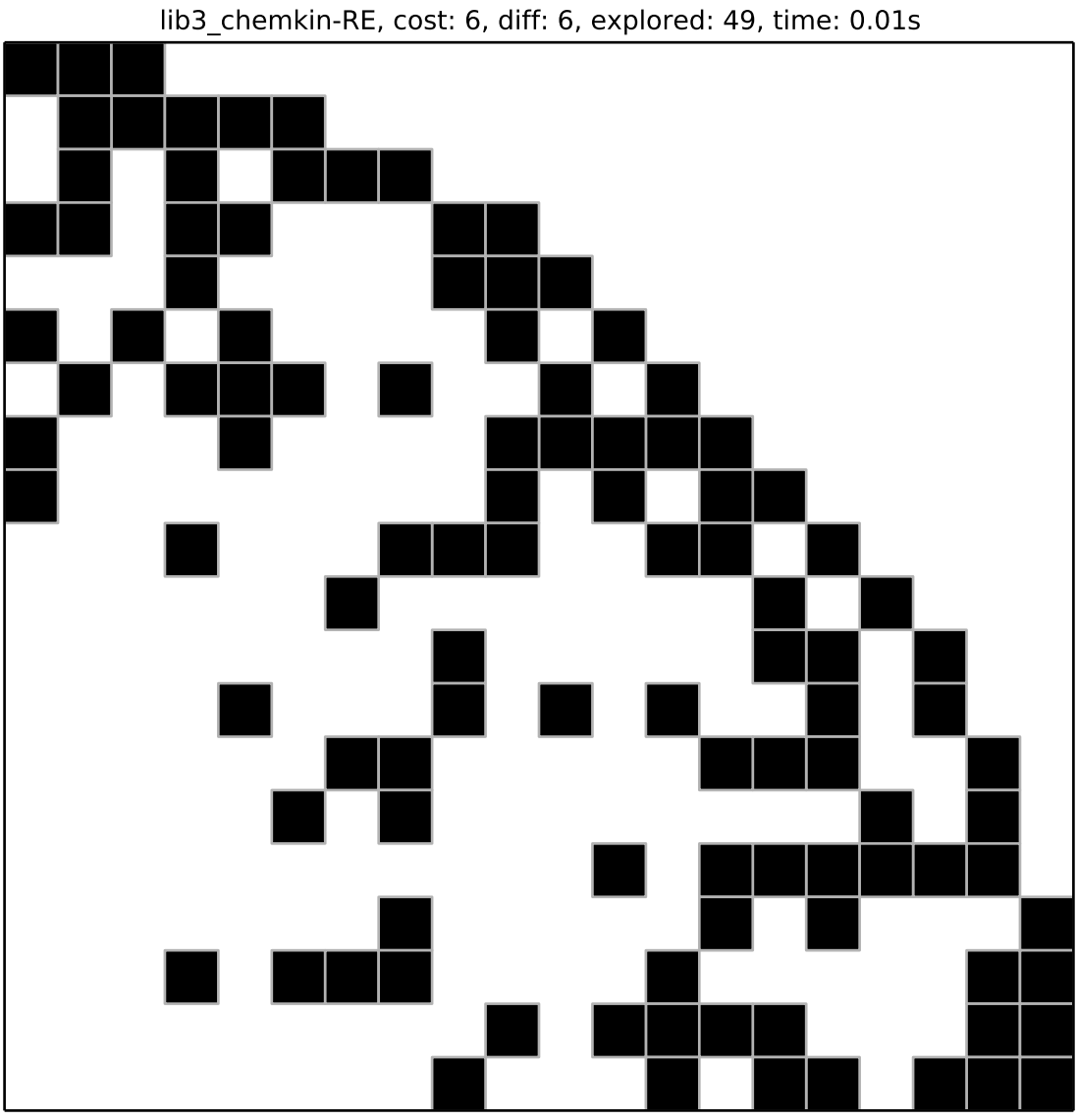
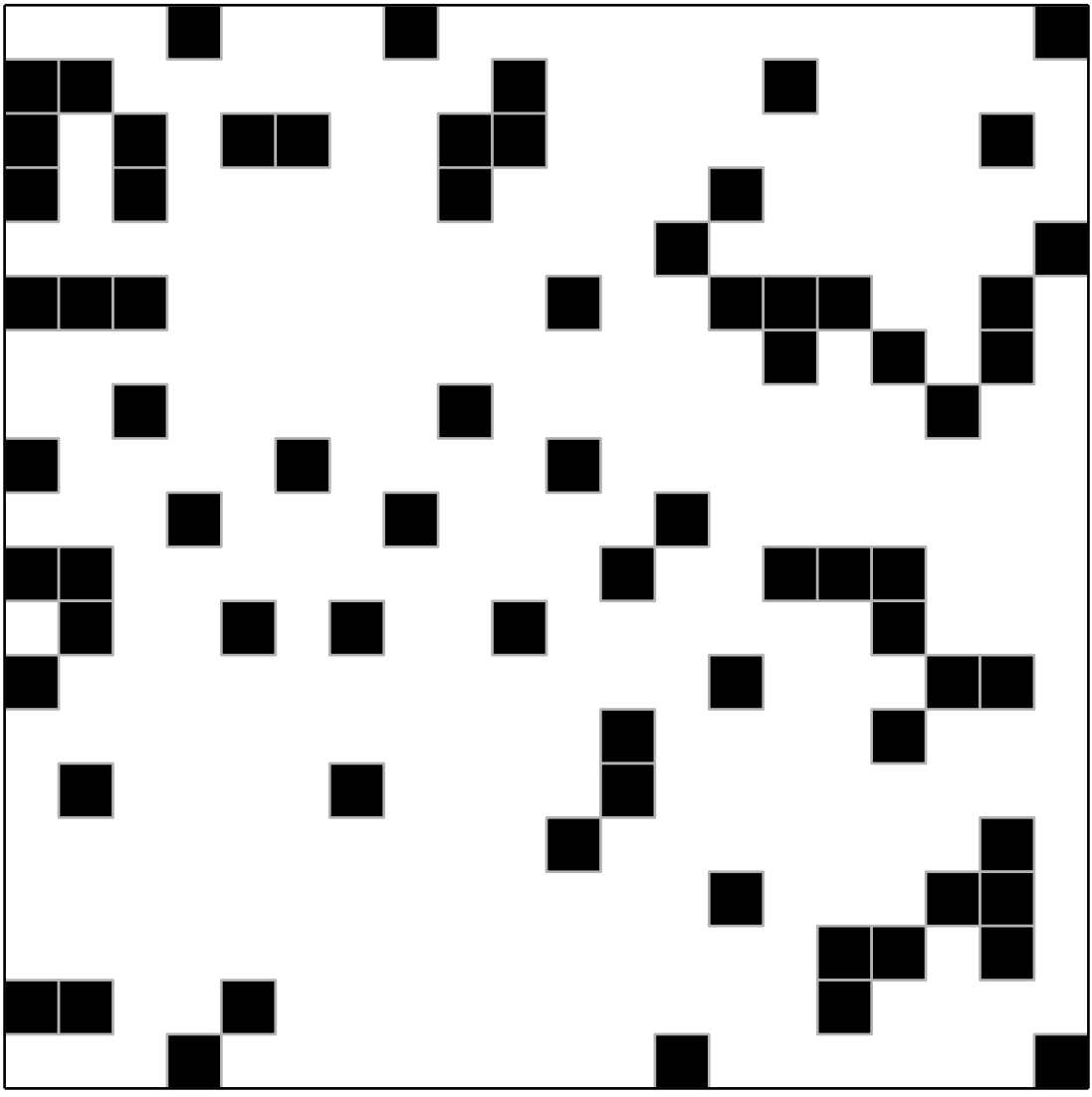
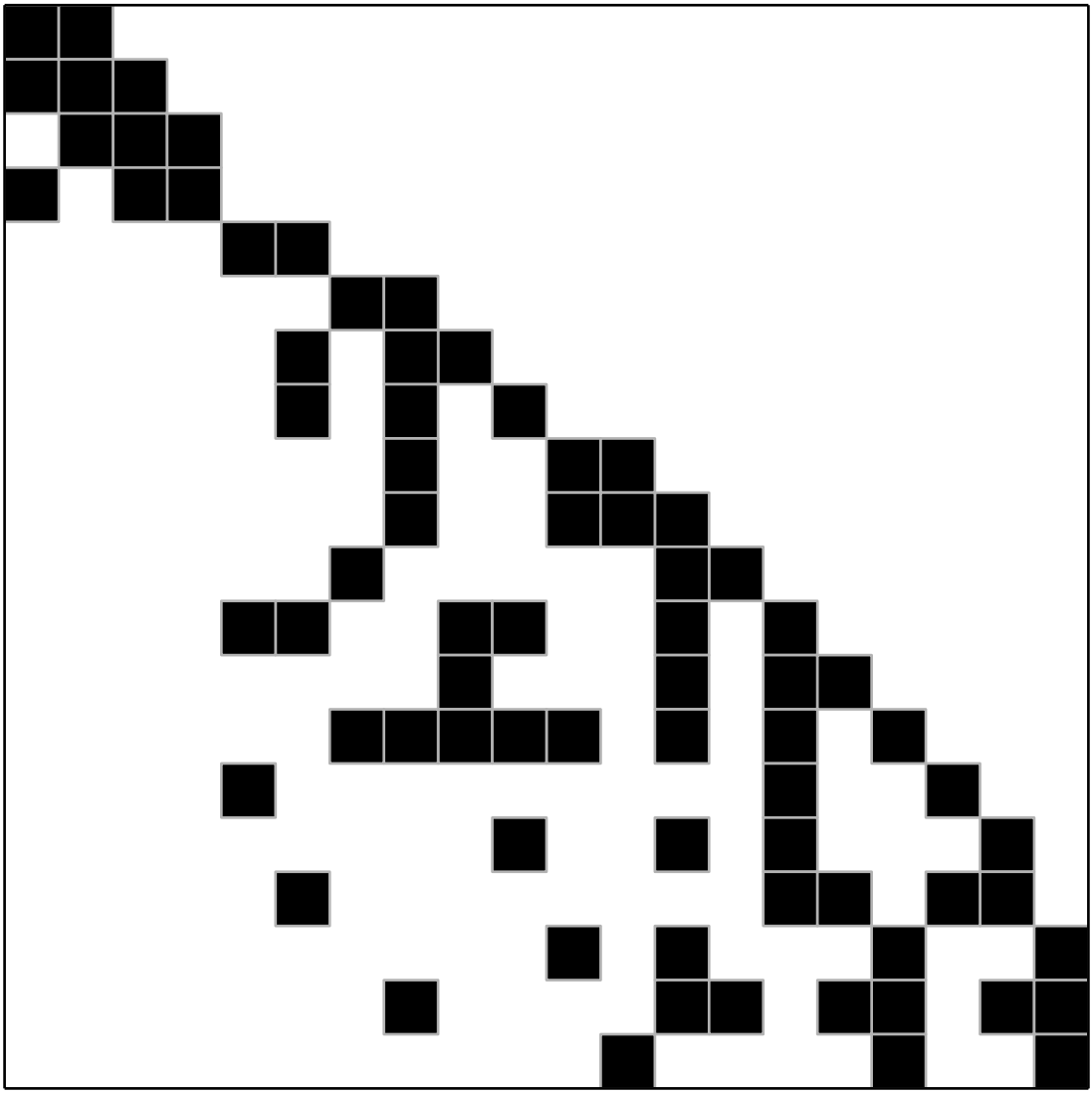
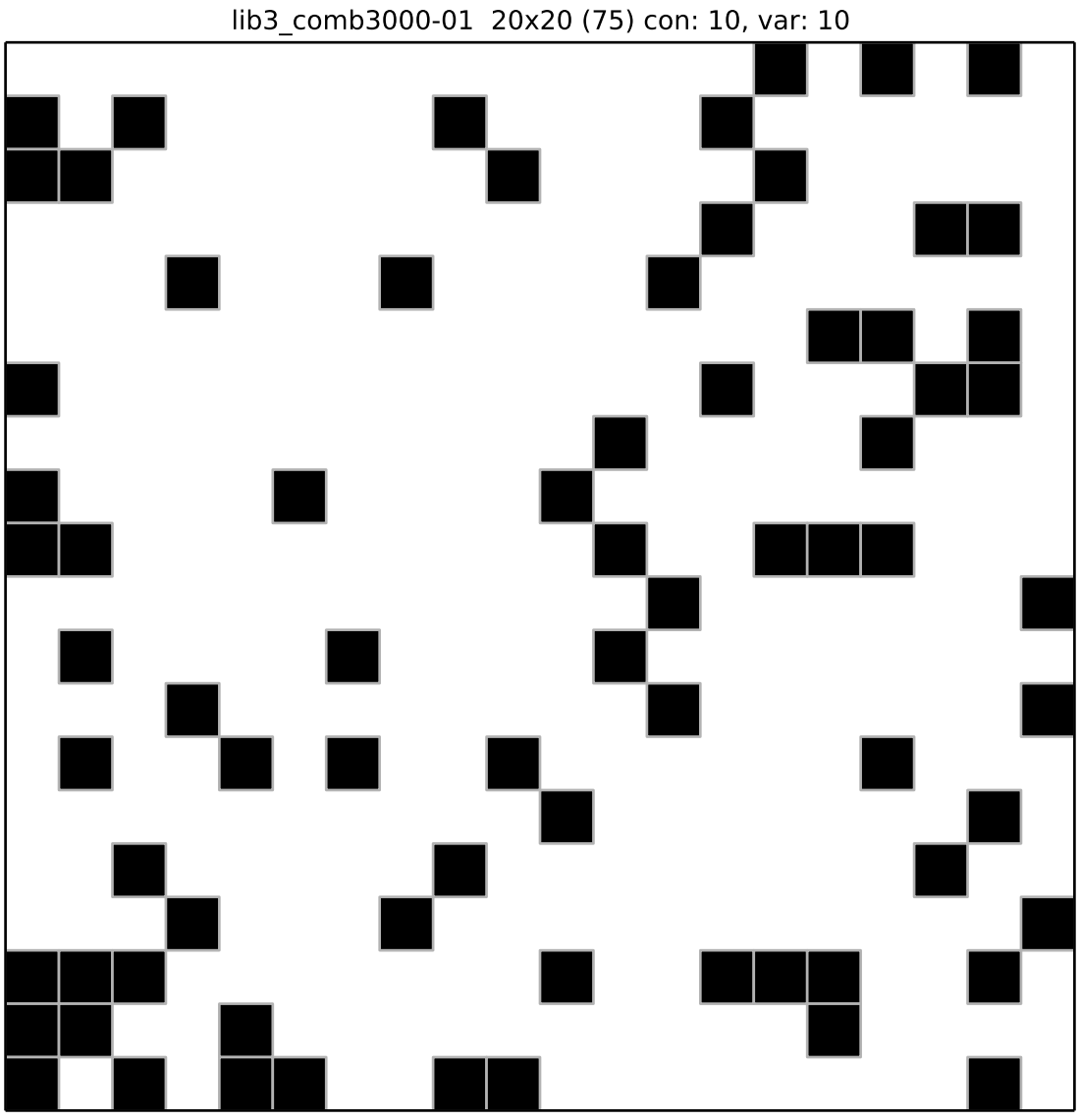

lib3_chemkin-RE 20x20 (109) con: 10, var: 10

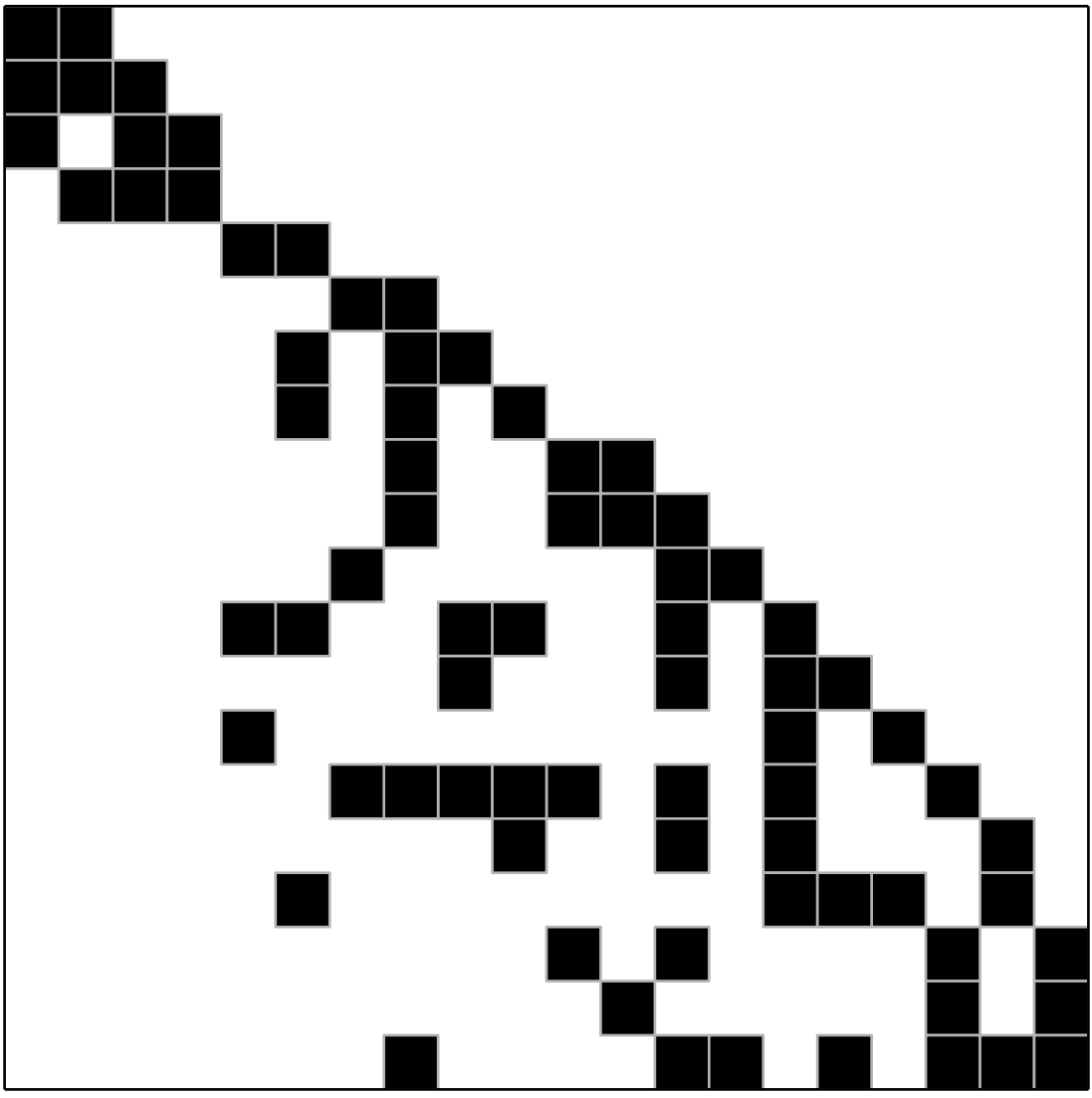

lib3_chemkin-RE, cost: 6, diff: 6, explored: 49, time: 0.01s

lib3_comb3000-00 20x20 (75) con: 10, var: 10




lib3_comb3000-00, cost: 4, diff: 4, explored: 11, time: 0.01s


lib3_comb3000-01 20x20 (75) con: 10, var: 10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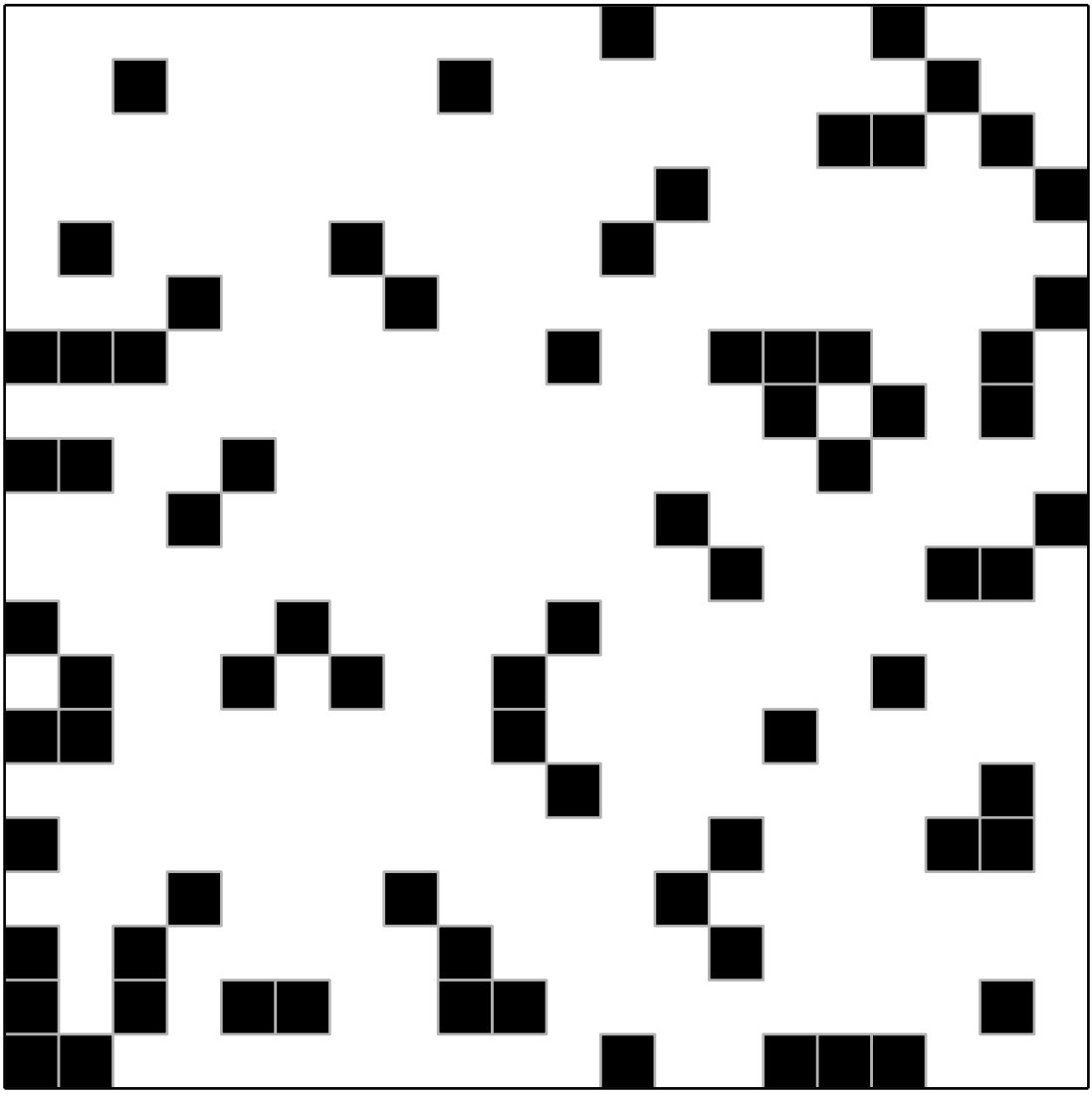
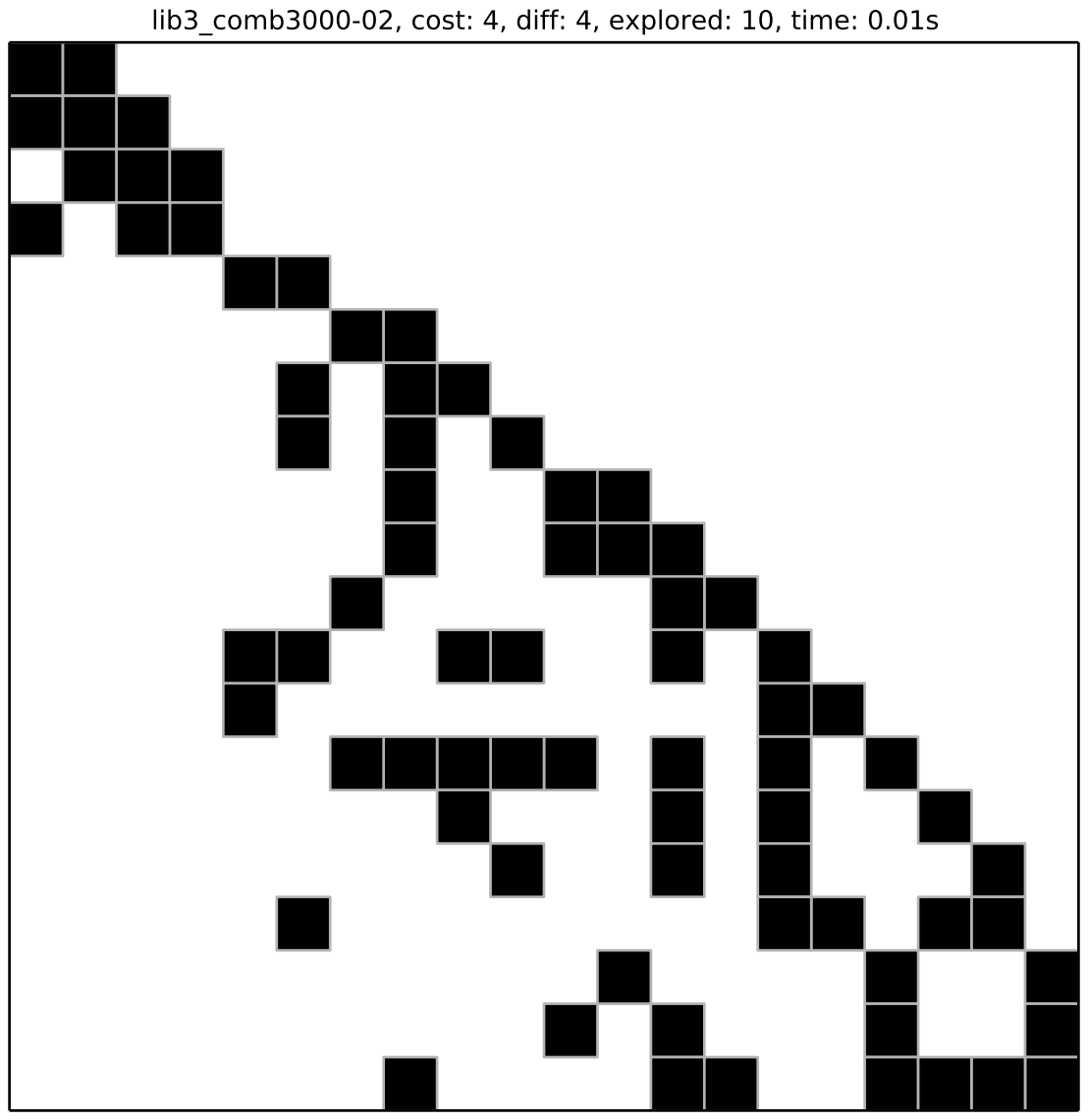
lib3_comb3000-02 20x20 (75) con: 10, var: 10

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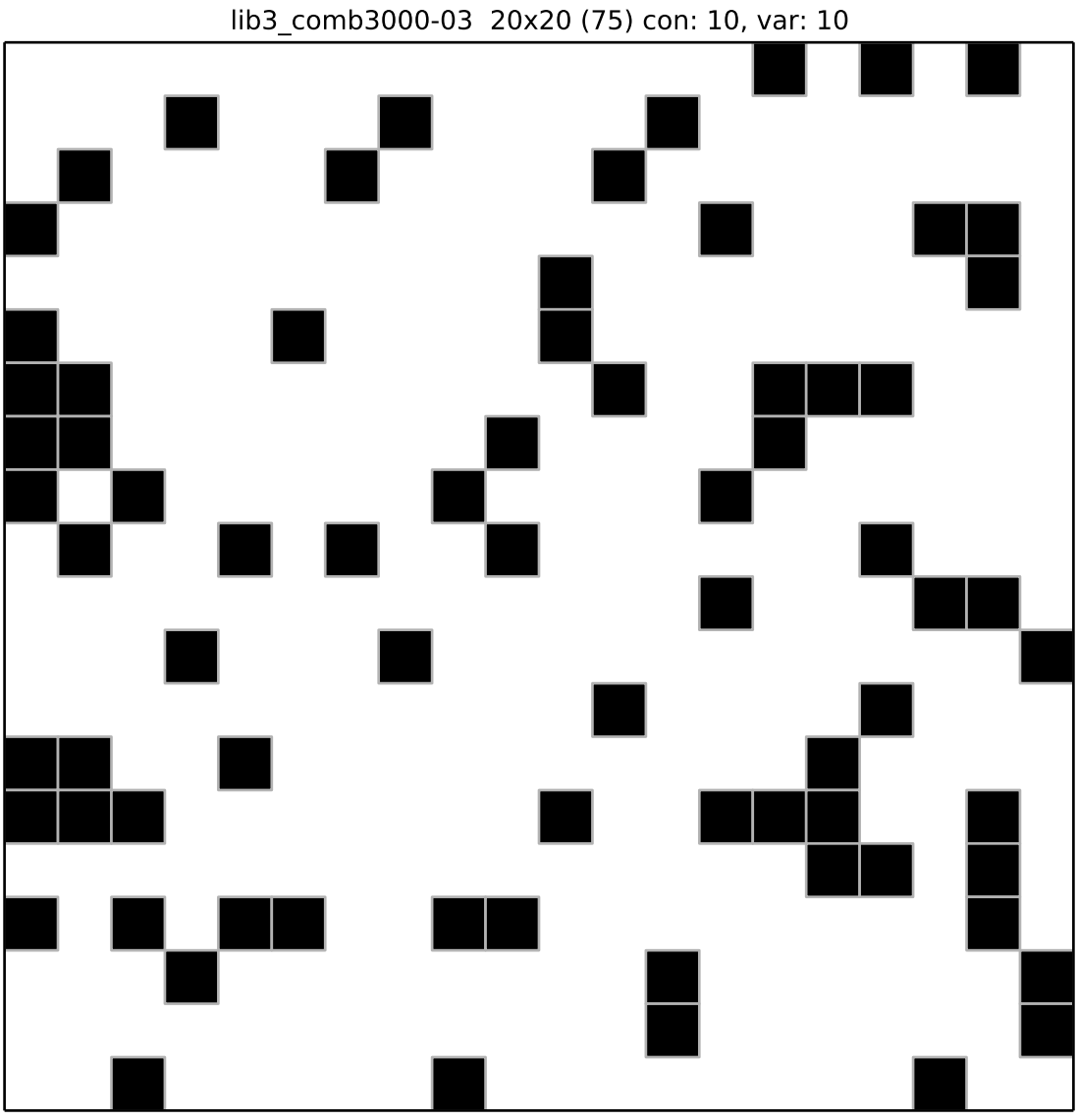
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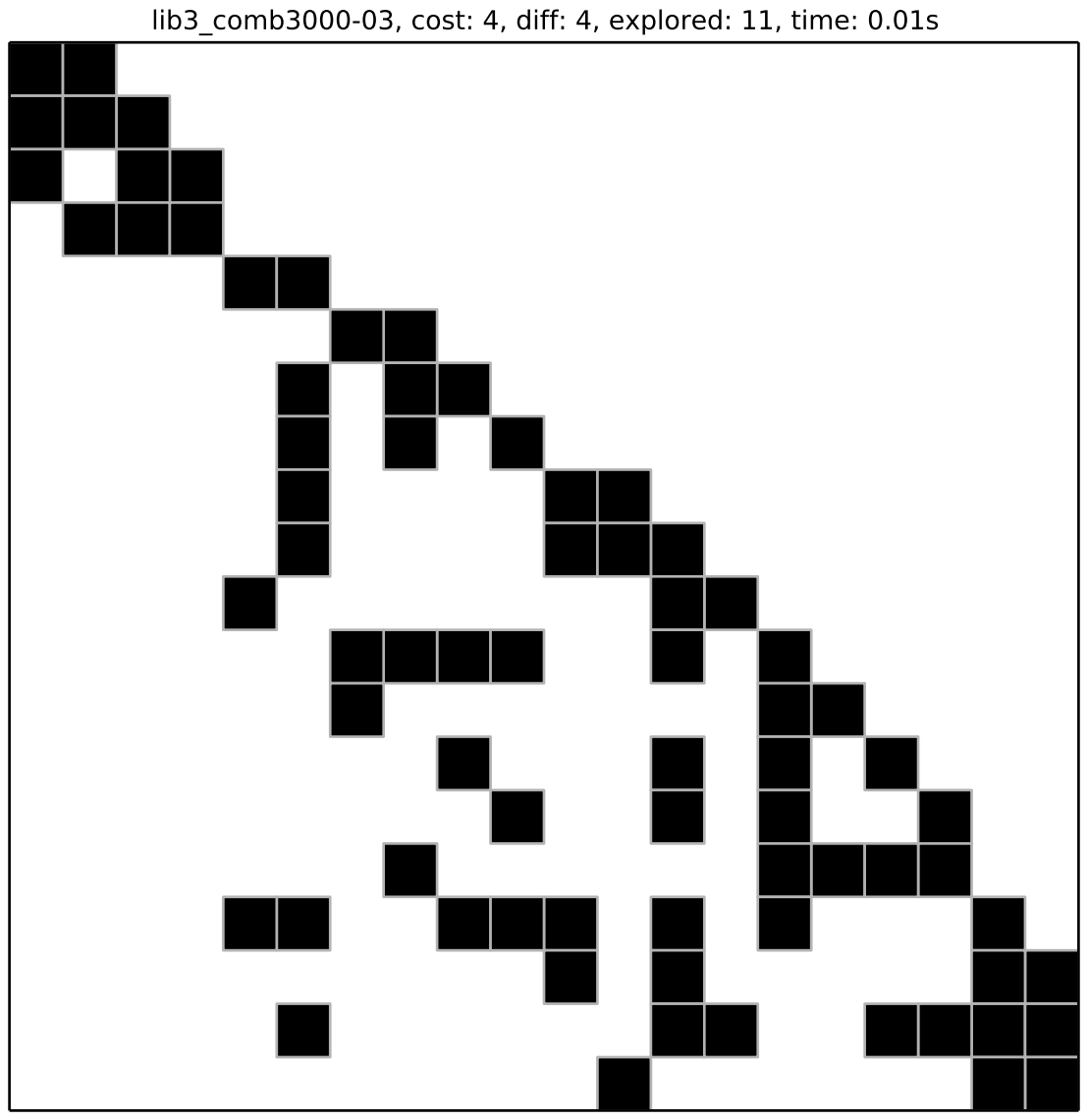
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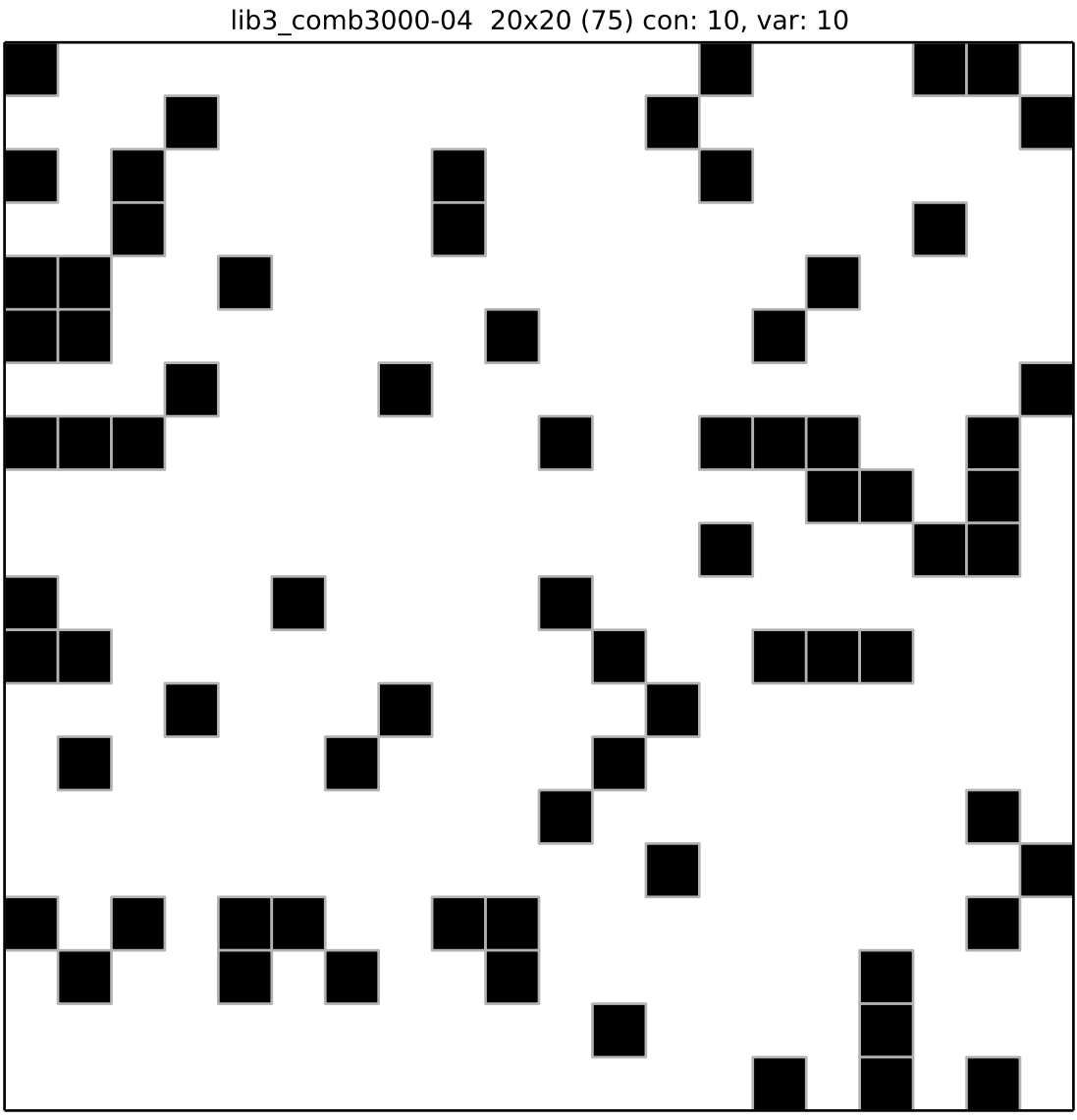
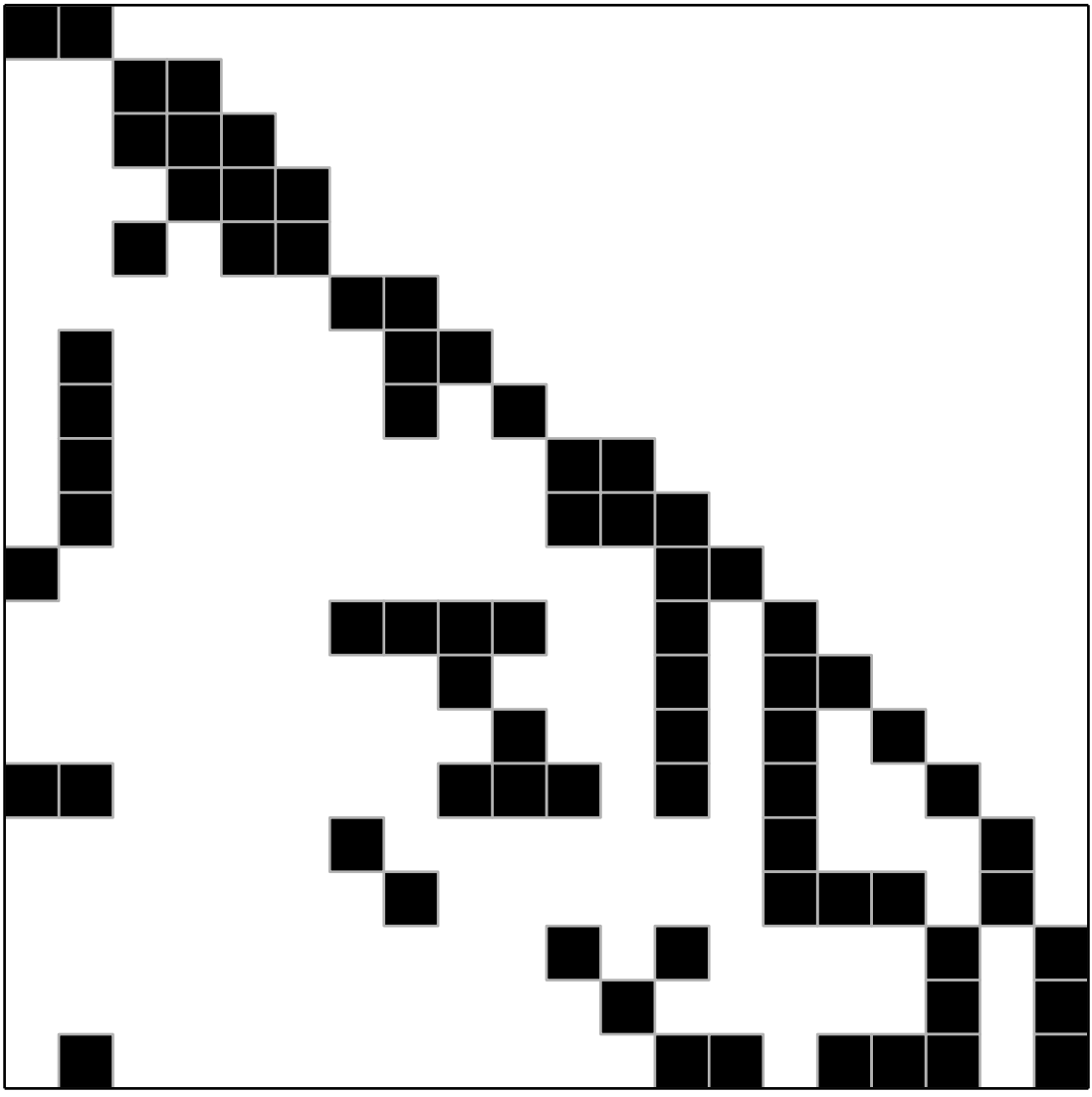
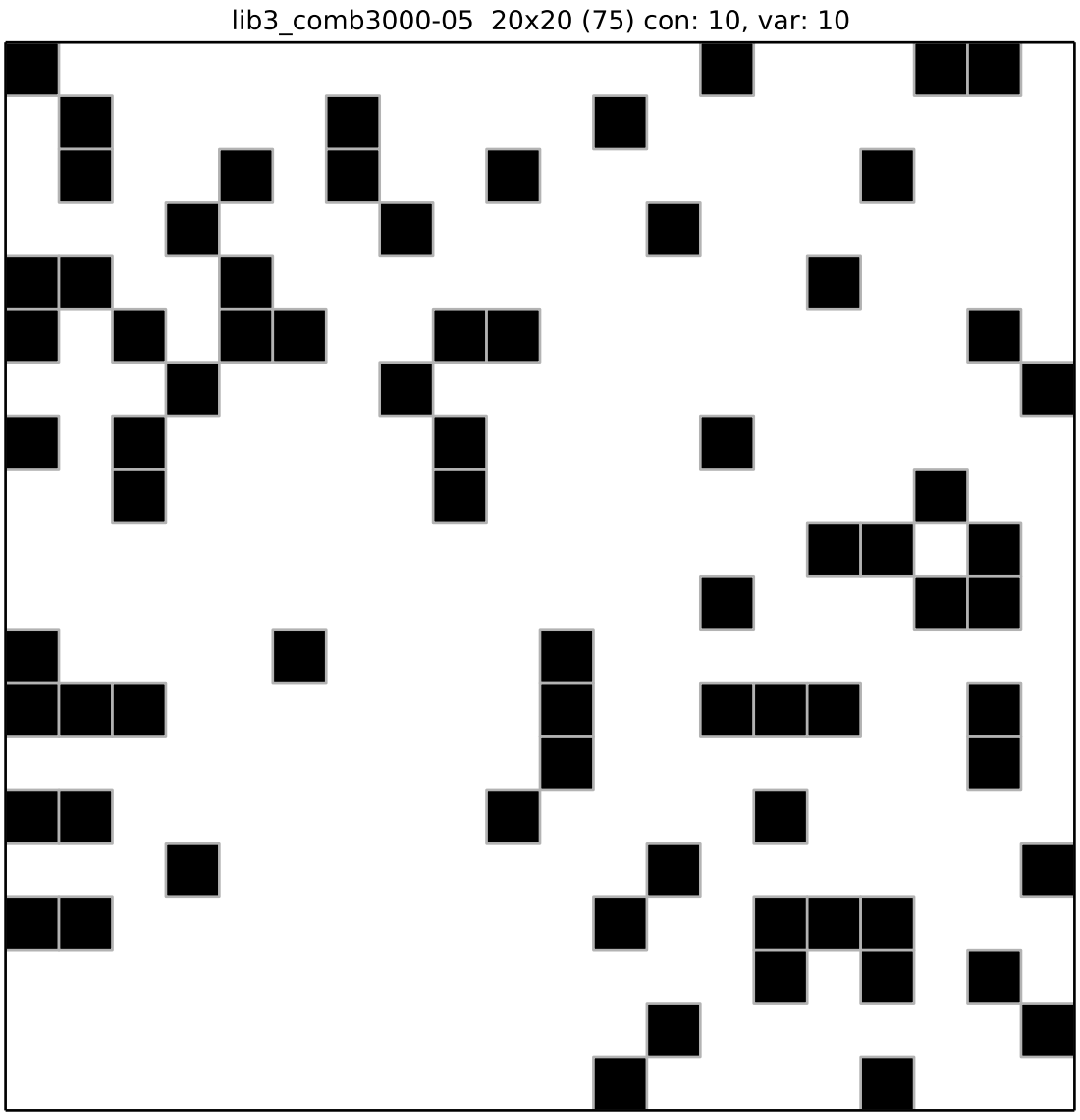
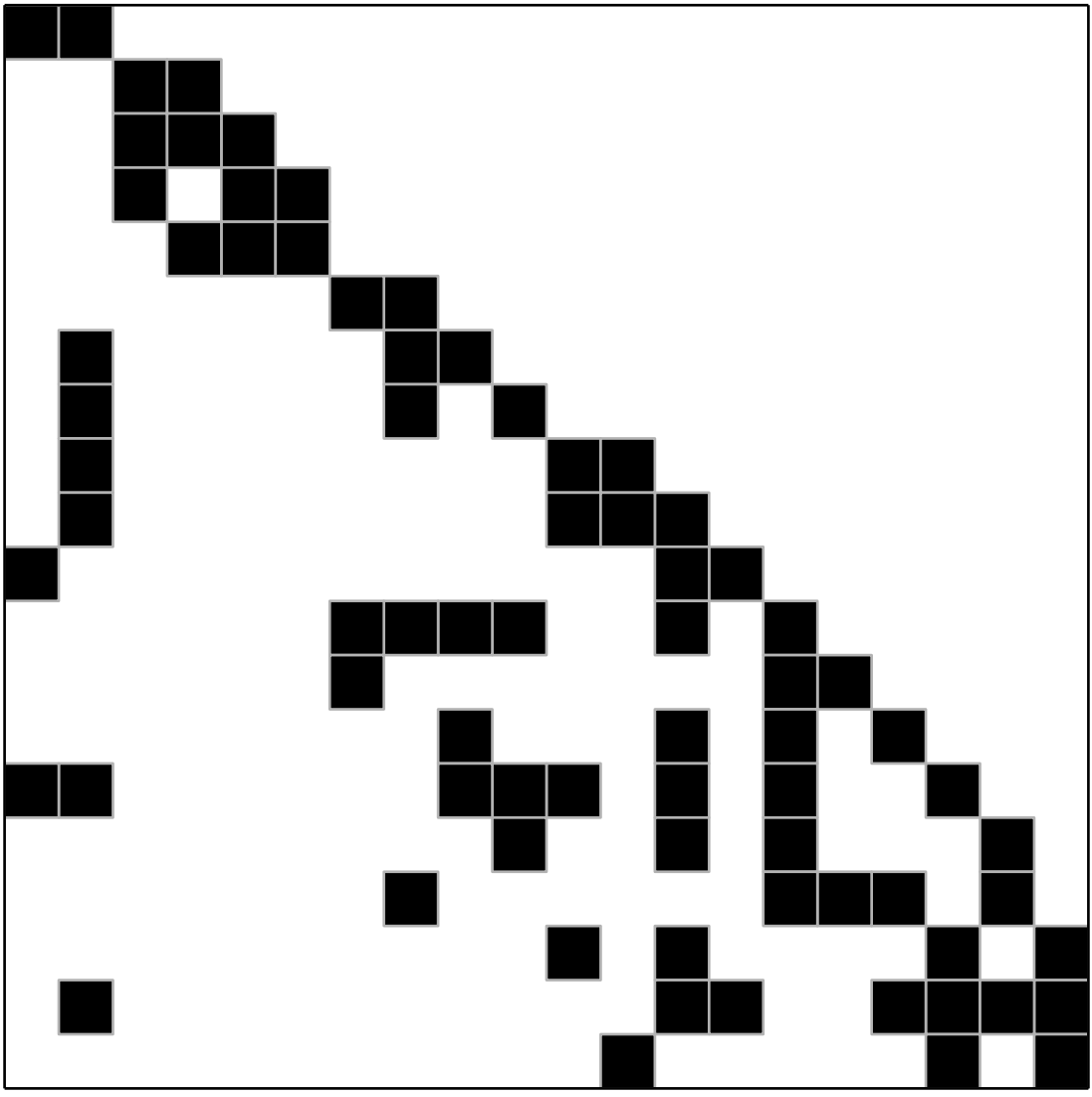

lib3_comb3000-04 20x20 (75) con: 10, var: 10

lib3_comb3000-04, cost: 4, diff: 4, explored: 9, time: 0.00s

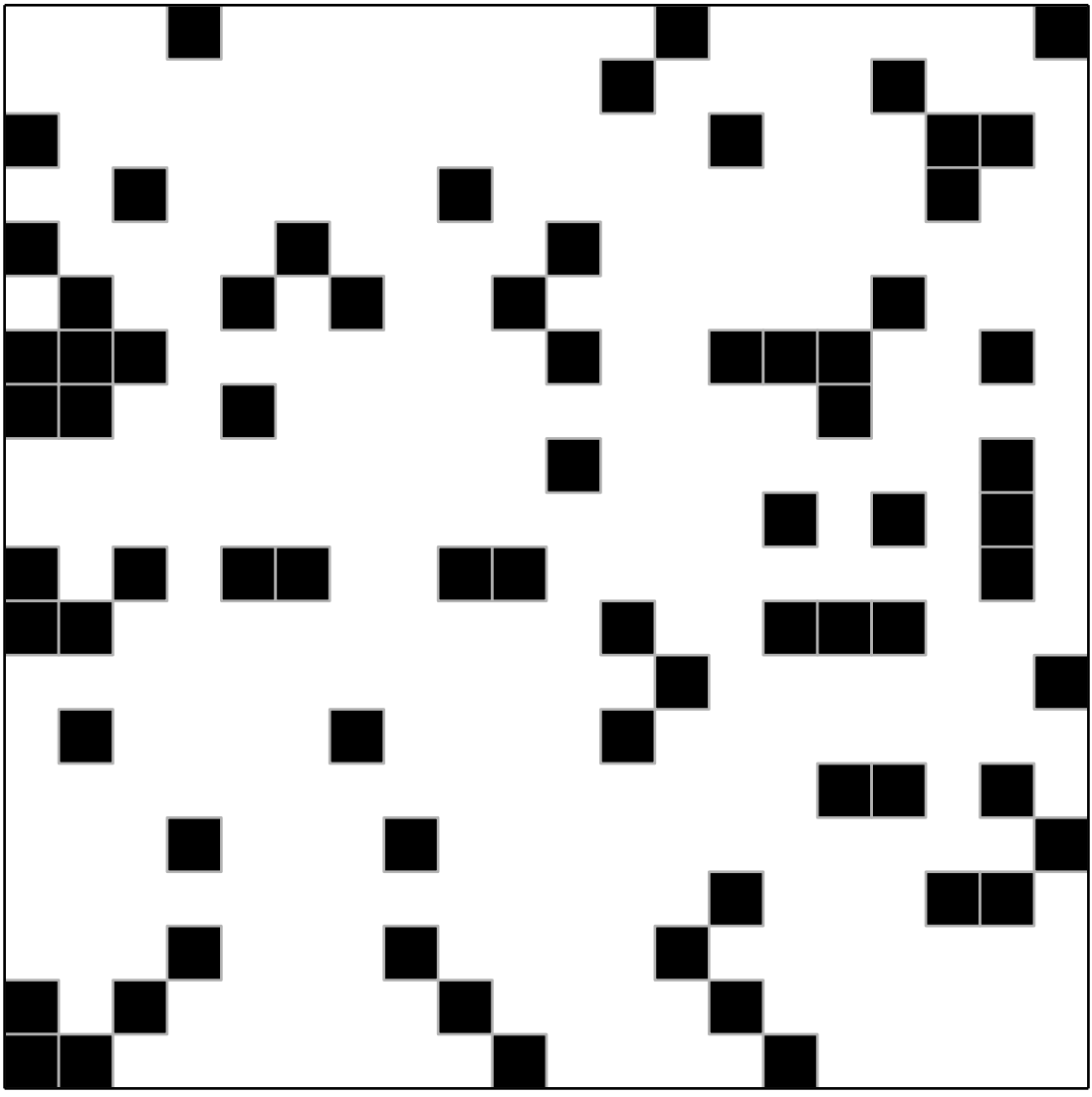


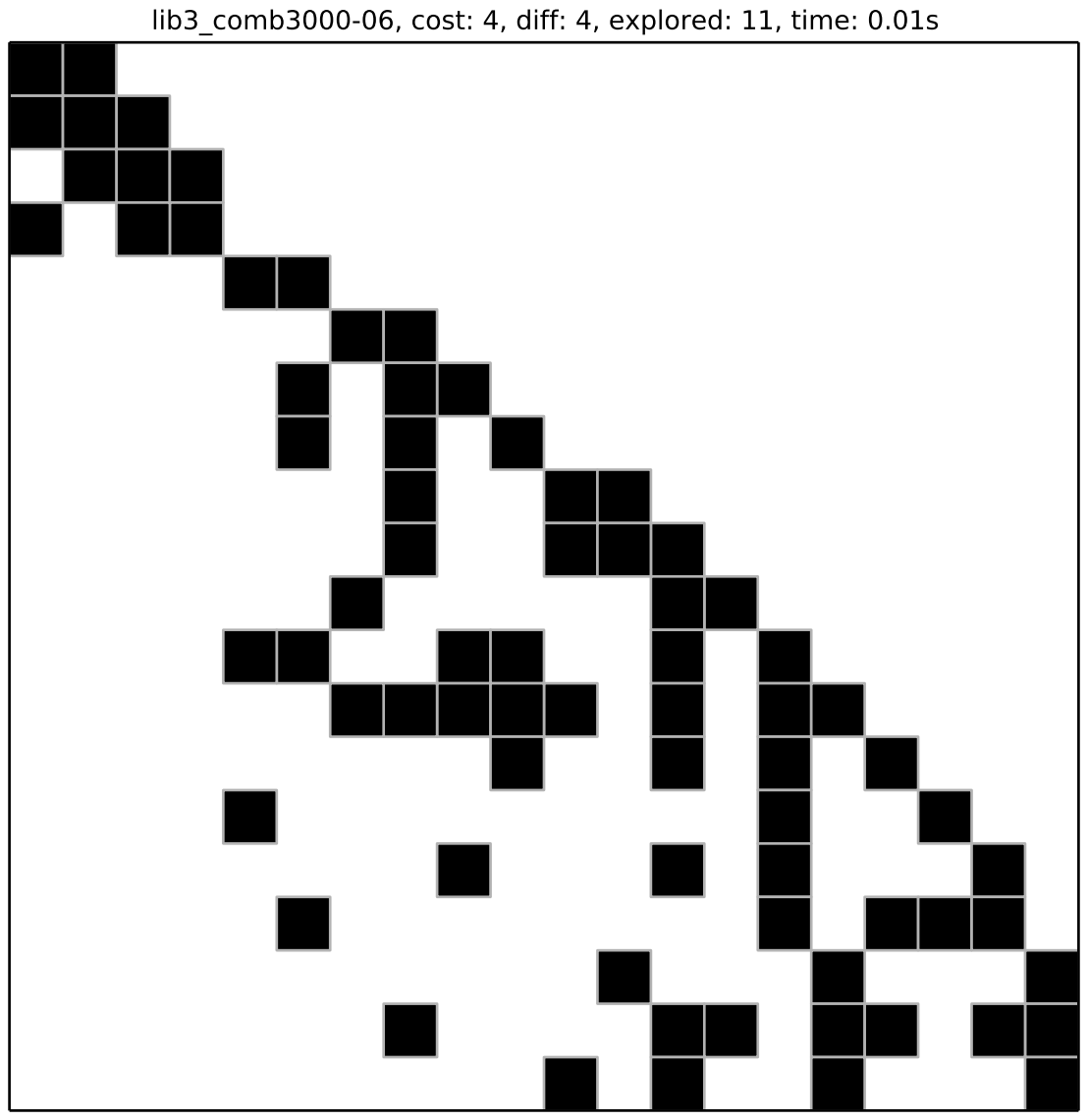

lib3_comb3000-05 20x20 (75) con: 10, var: 10

lib3_comb3000-05, cost: 4, diff: 4, explored: 9, time: 0.00s



lib3_comb3000-06 20x20 (75) con: 10, var: 10

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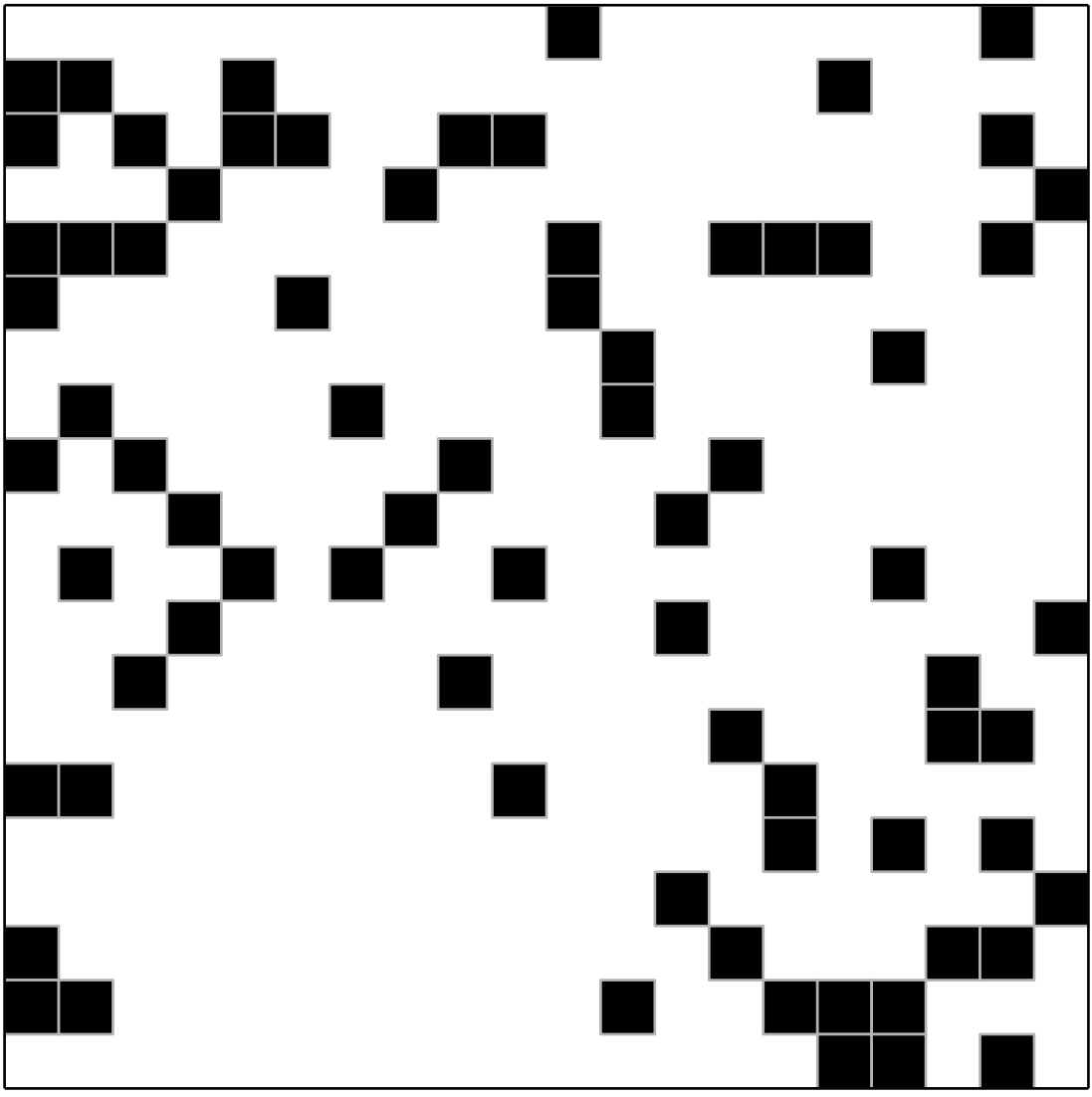
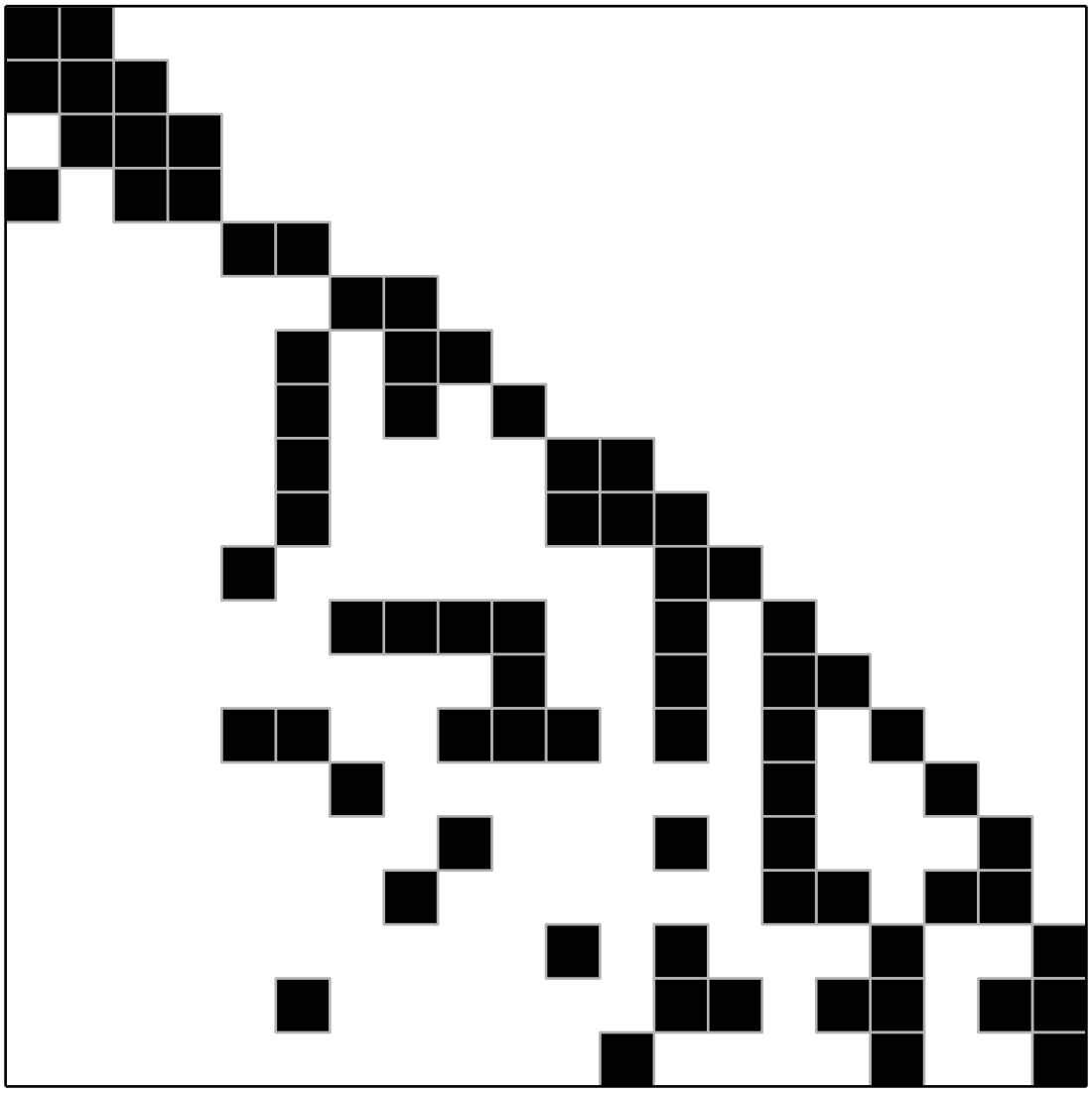
lib3_comb3000-07 20x20 (75) con: 10, var: 10

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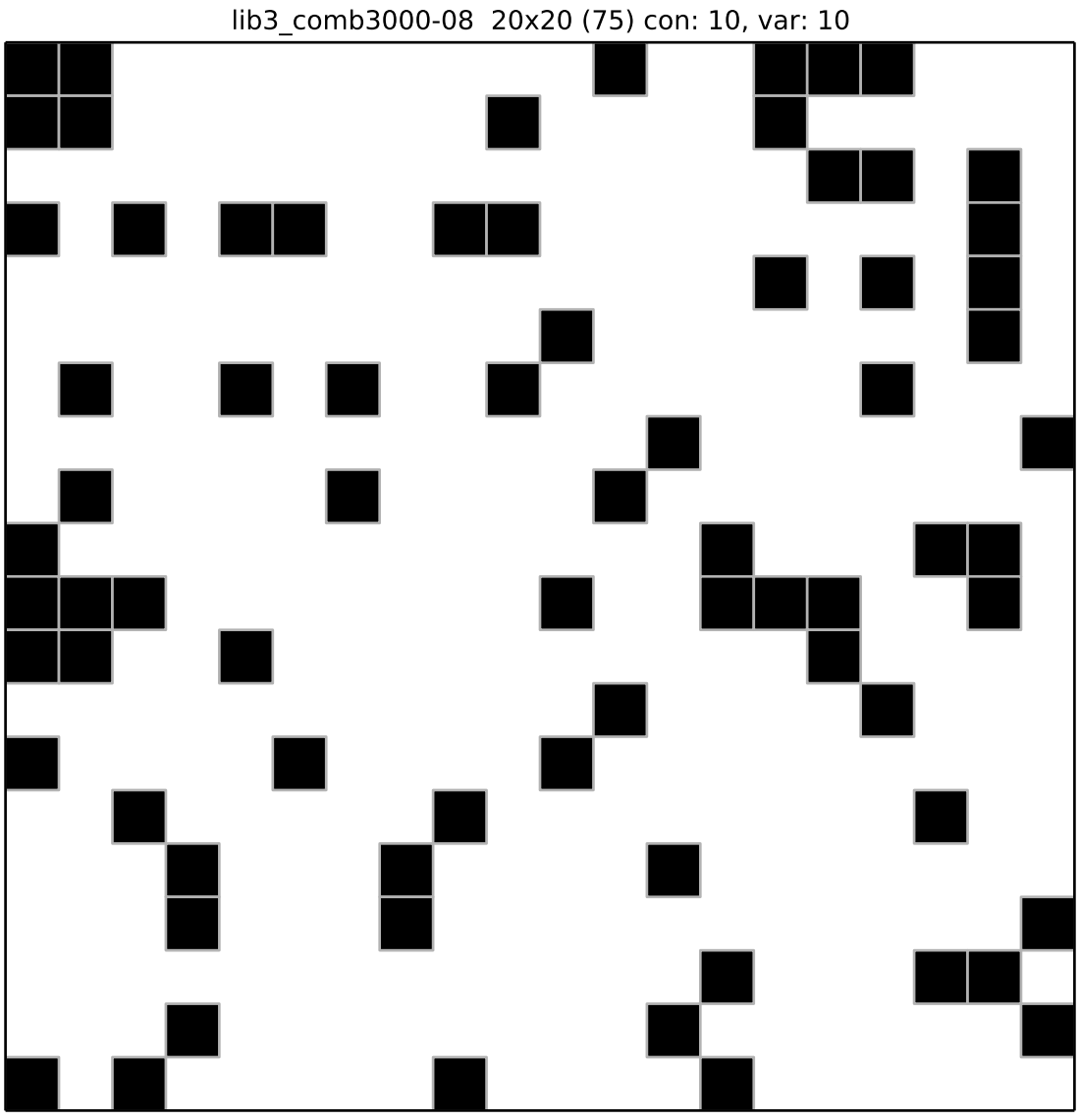
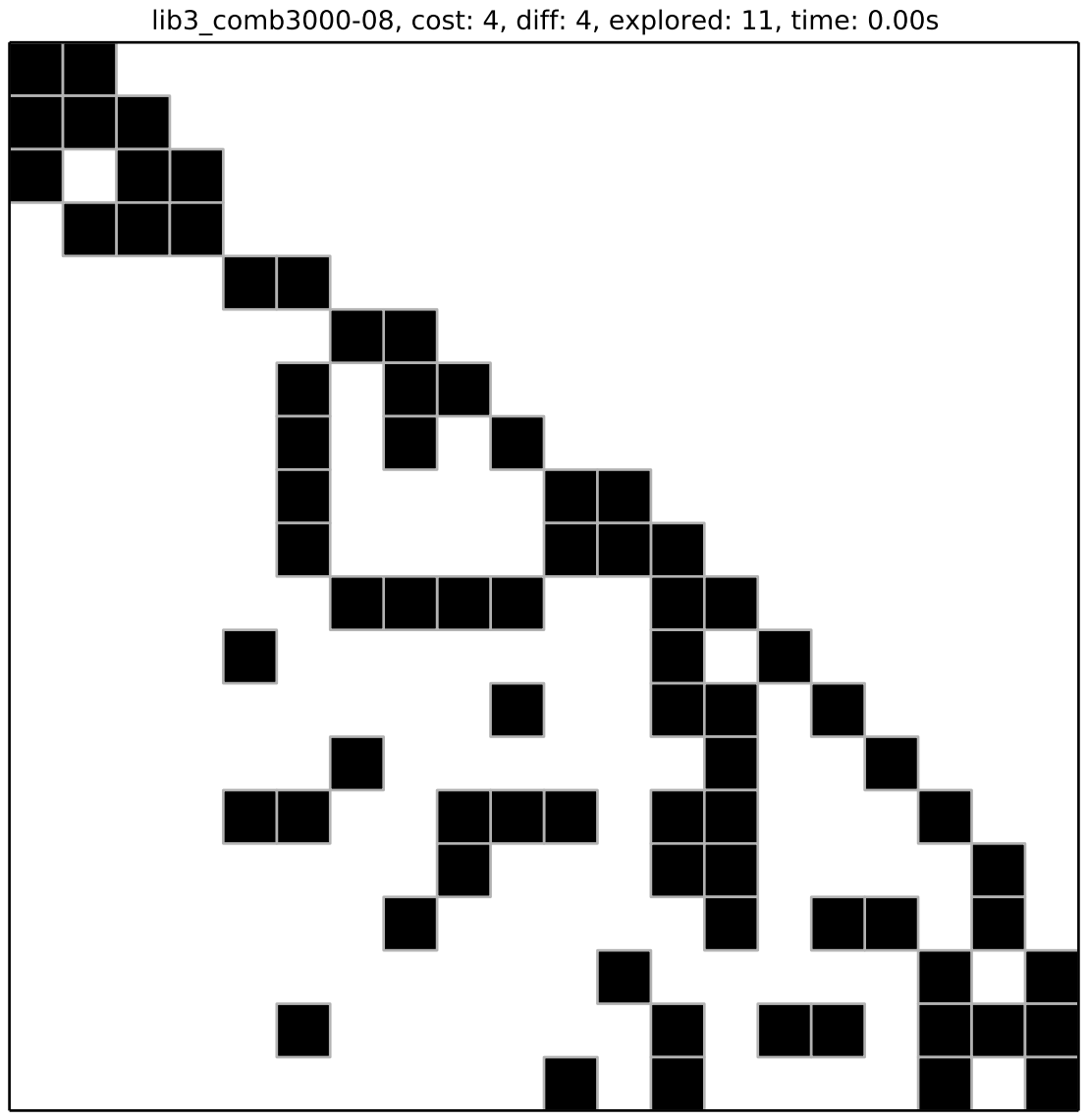

lib3_comb3000-08 20x20 (75) con: 10, var: 10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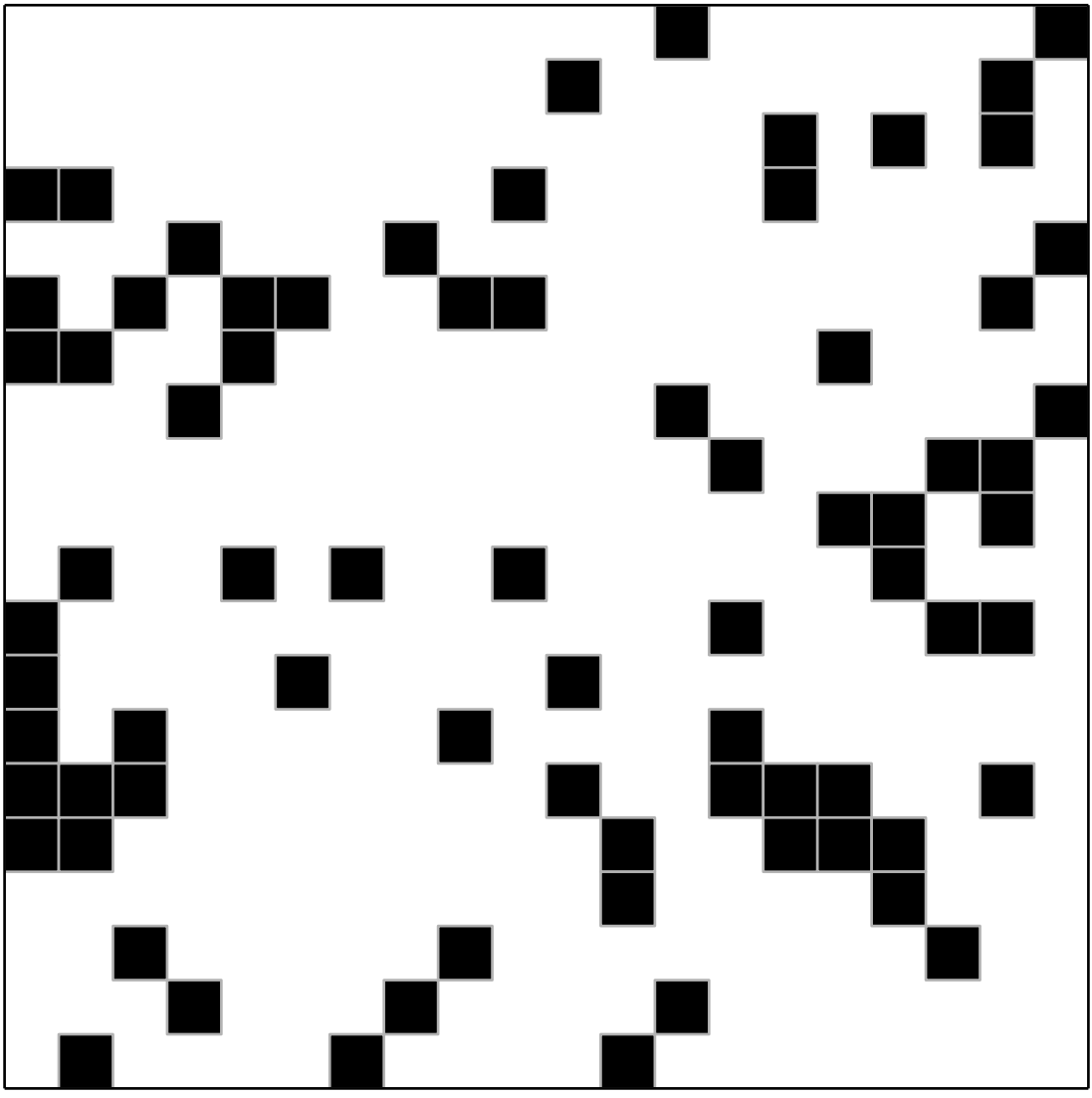
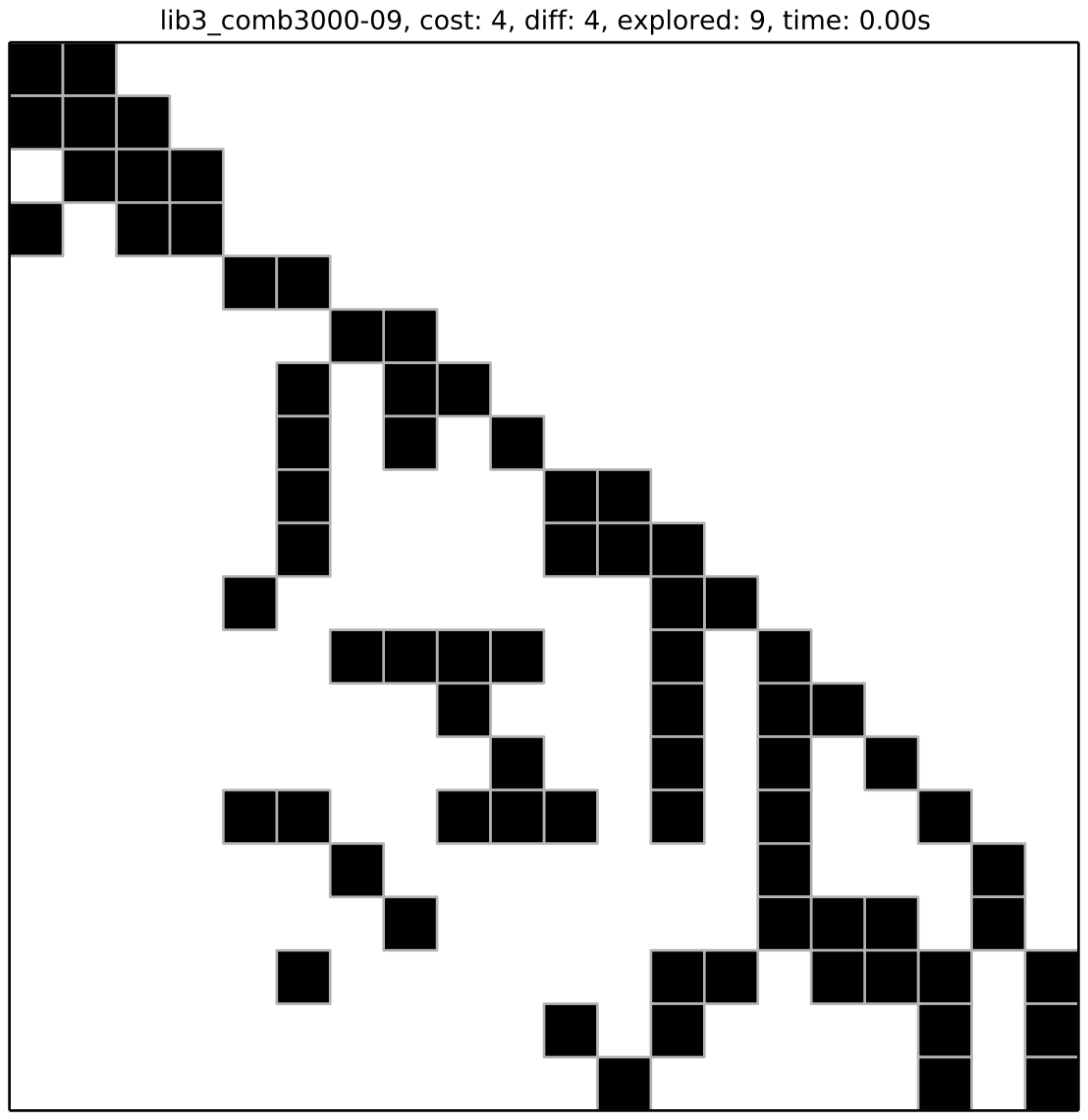
lib3_comb3000-09 20x20 (75) con: 10, var: 10

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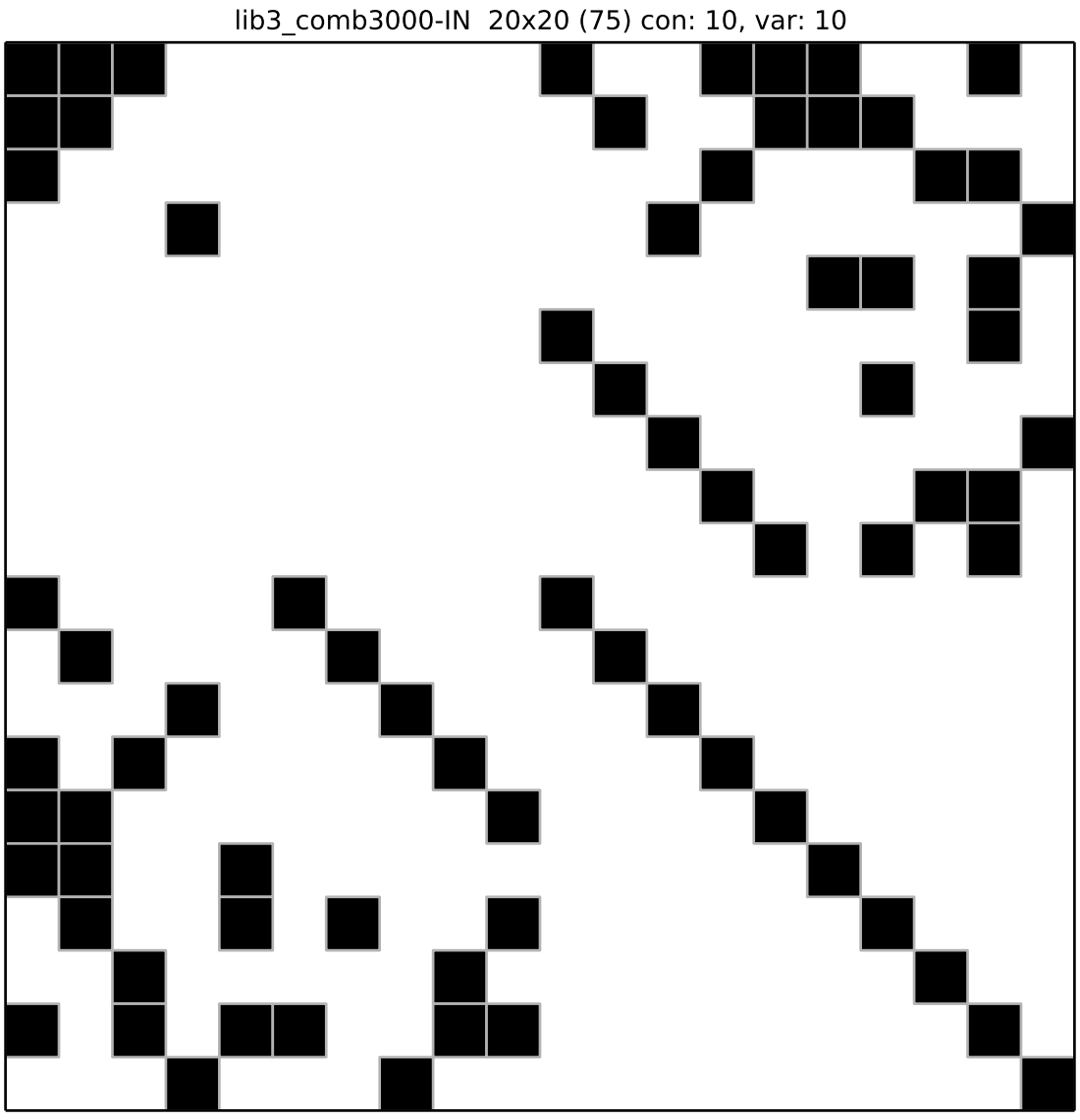
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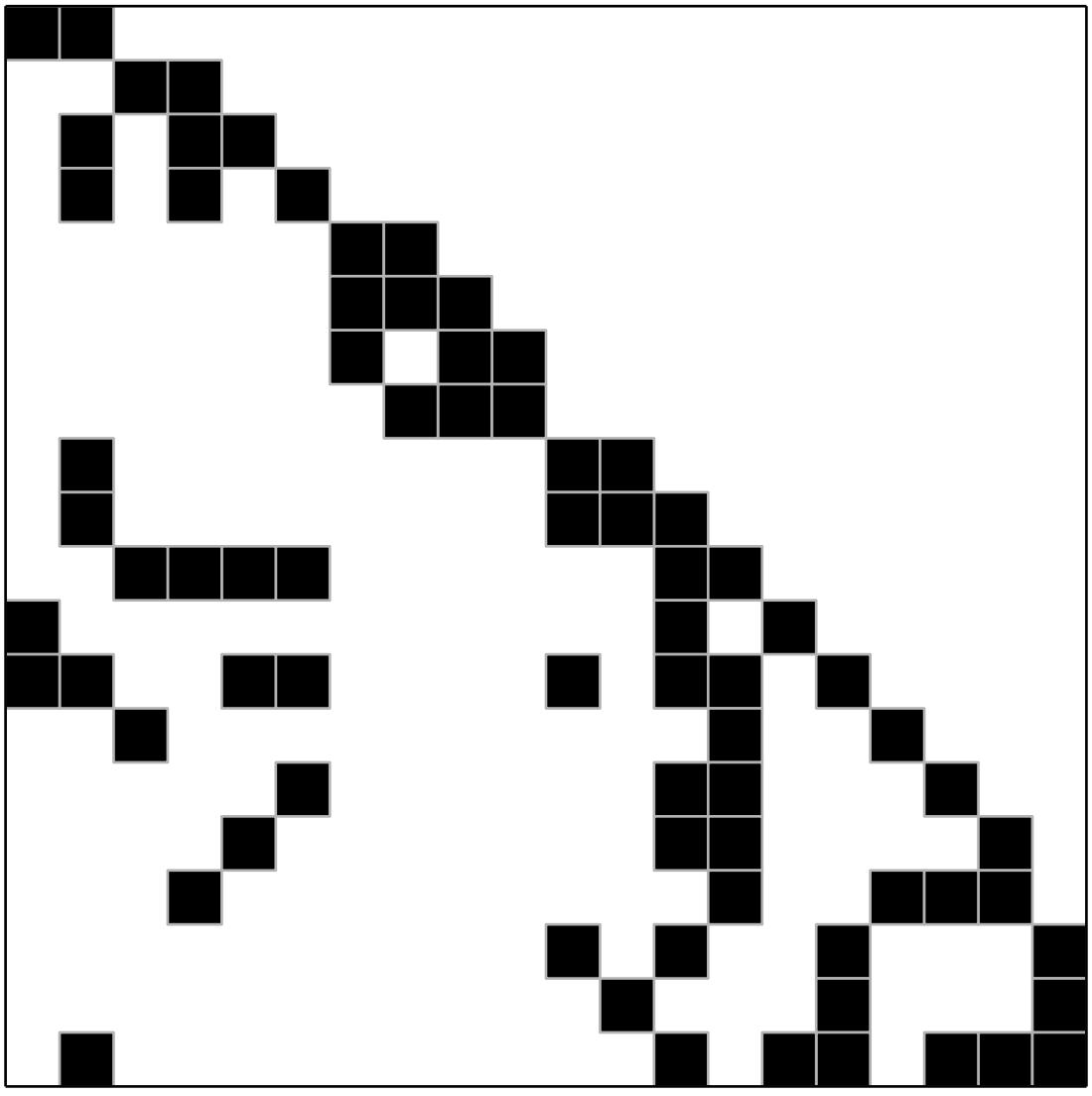
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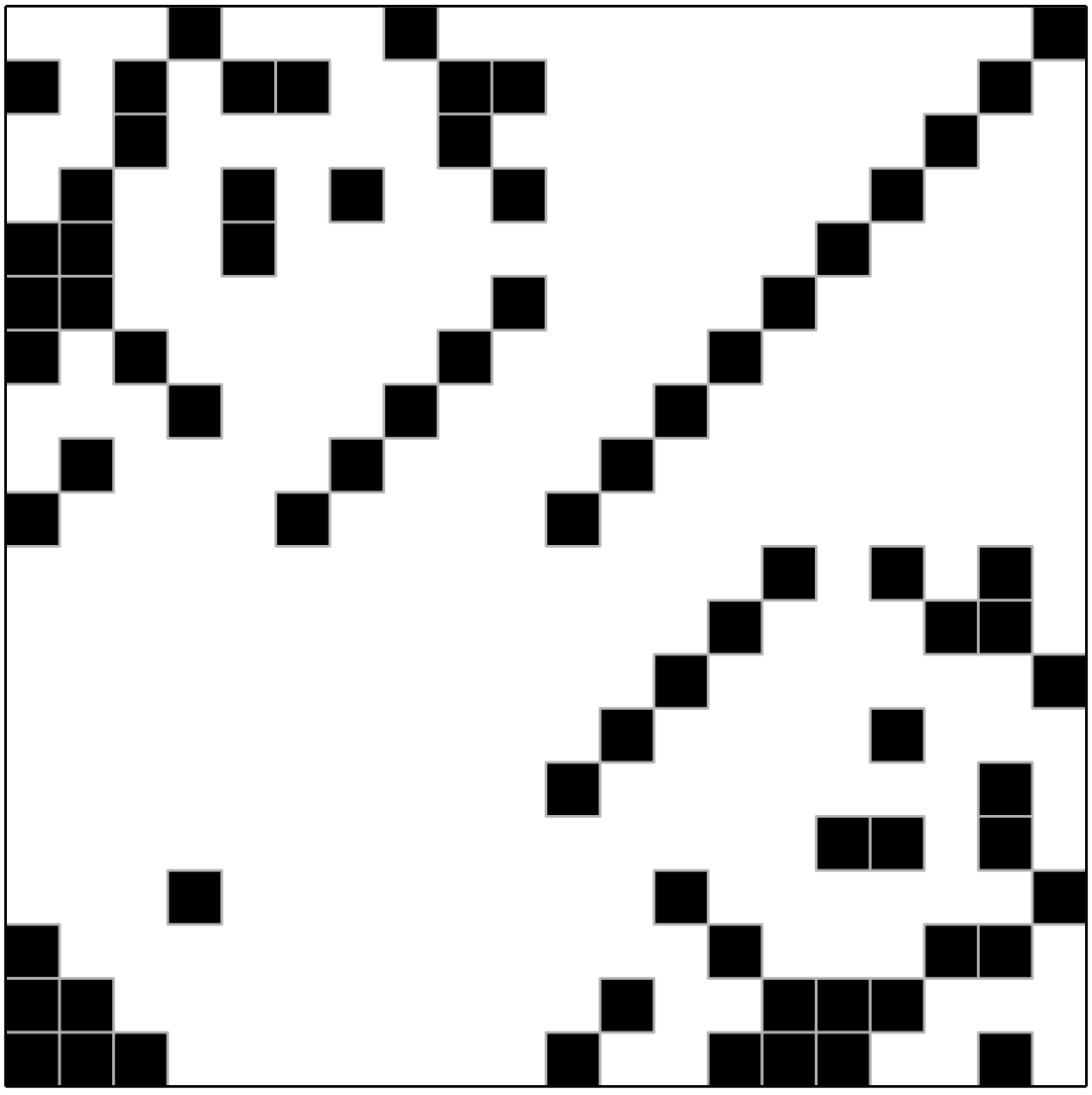
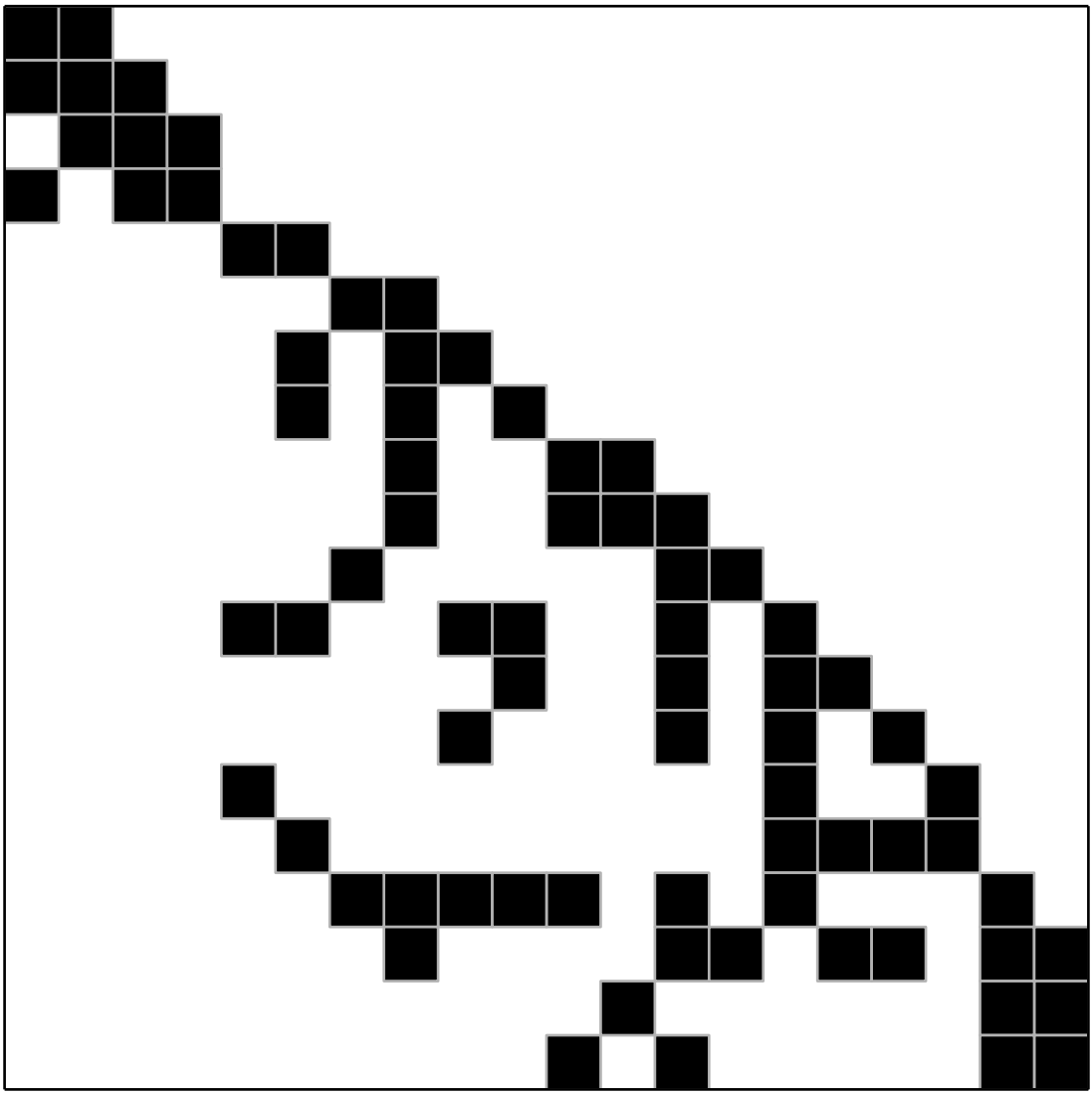

lib3_comb3000-RE 20x20 (75) con: 10, var: 10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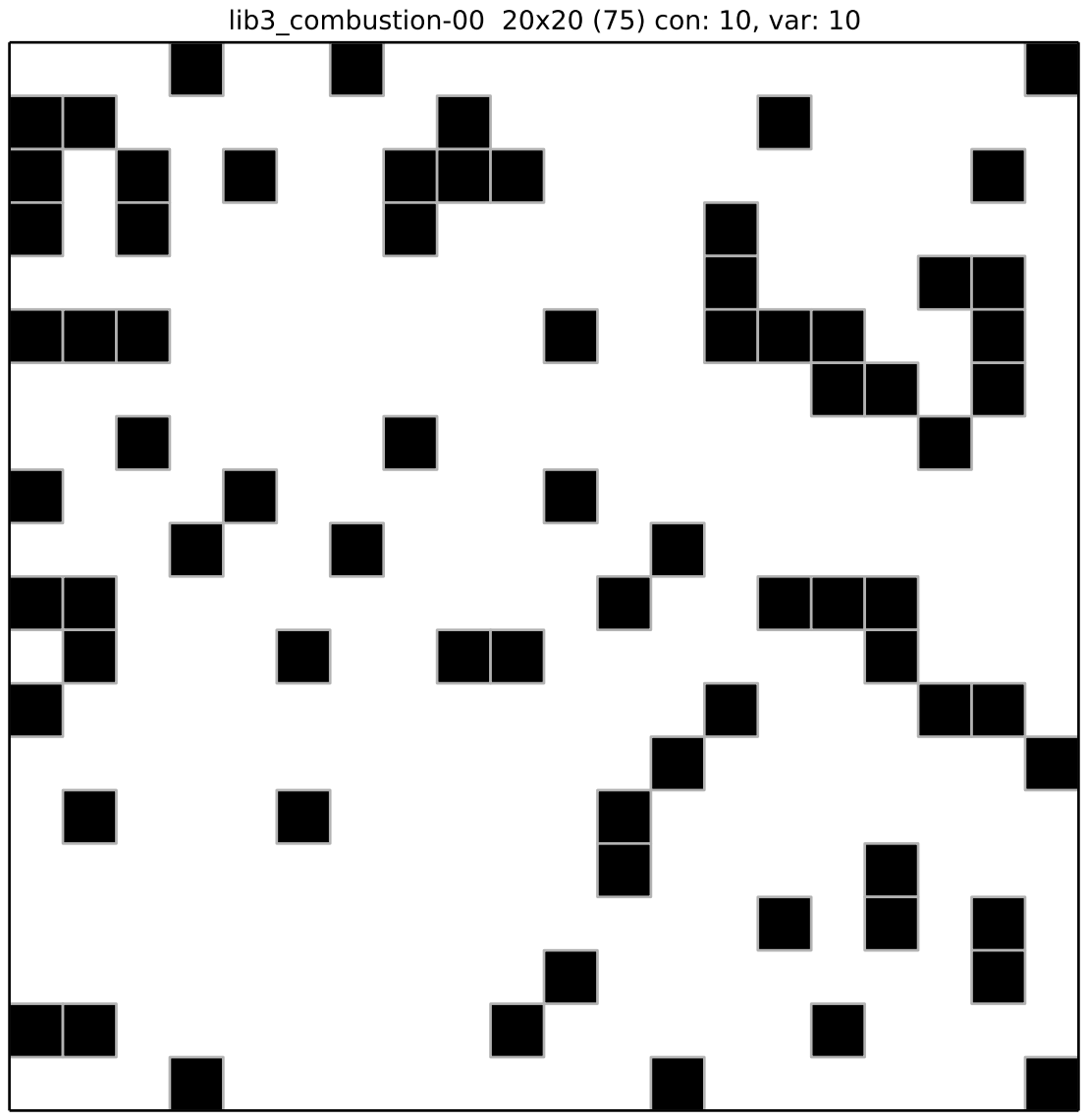
lib3_combustion-00 20x20 (75) con: 10, var: 10

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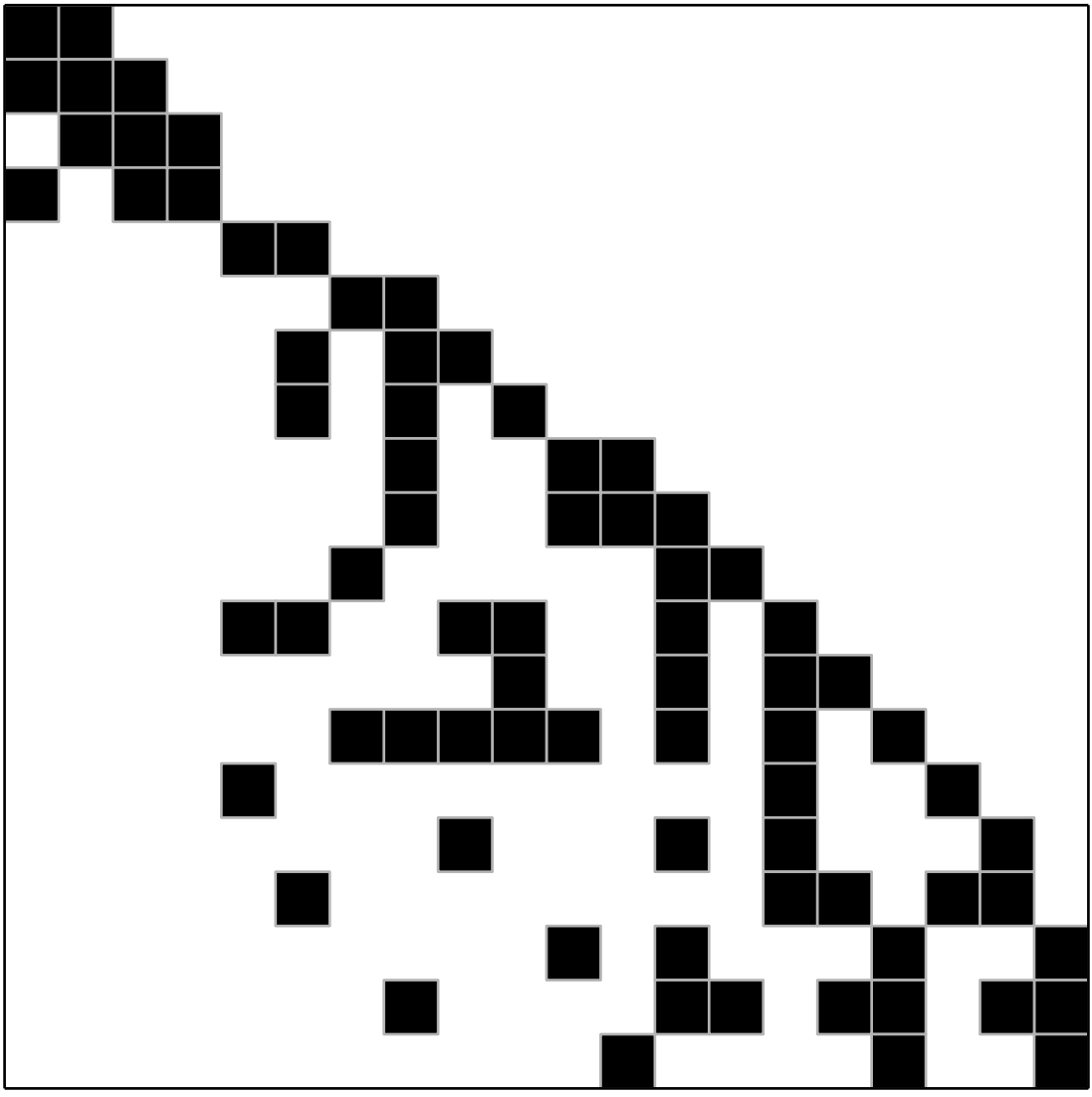

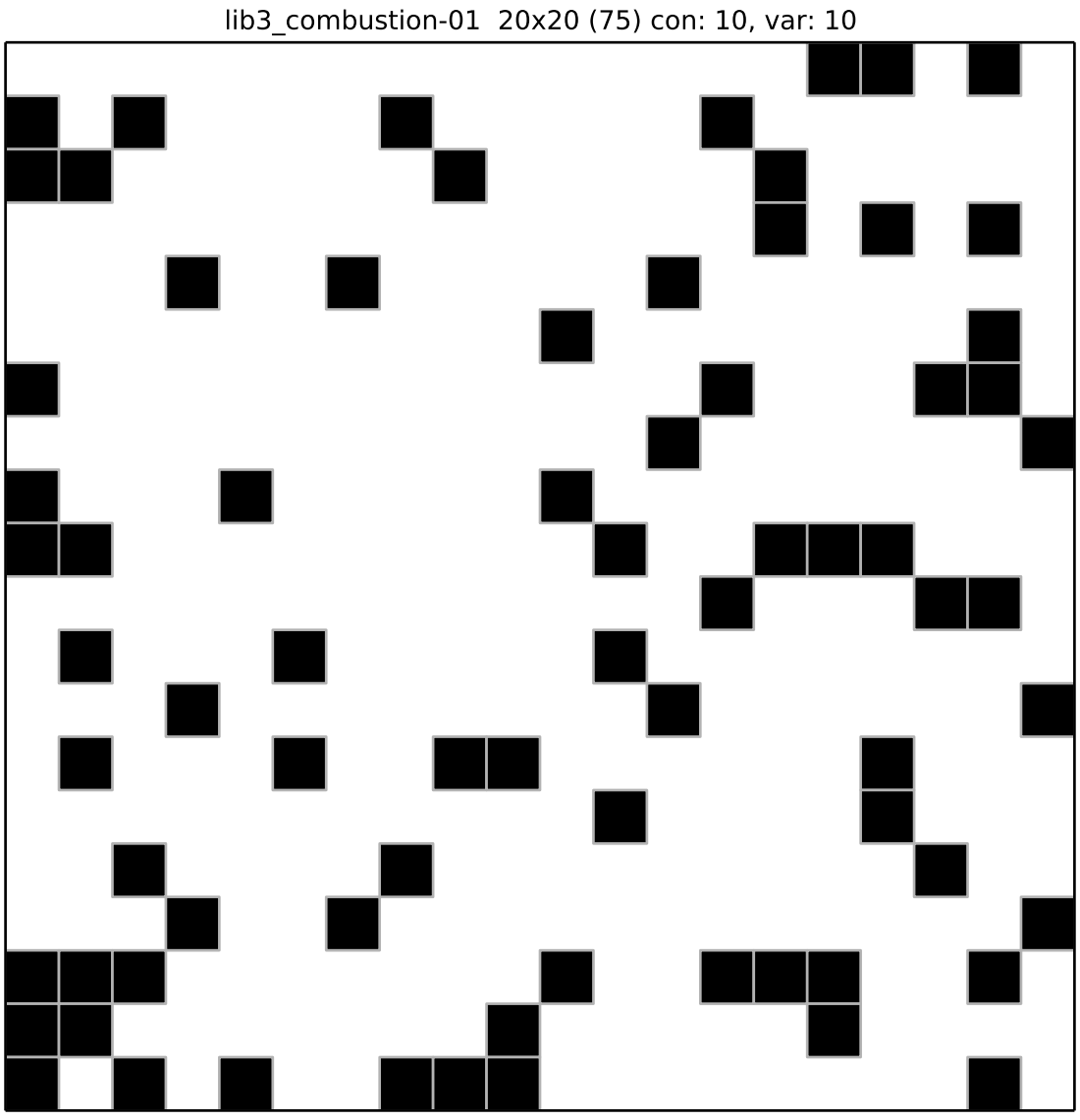
lib3_combustion-01 20x20 (75) con: 10, var: 10

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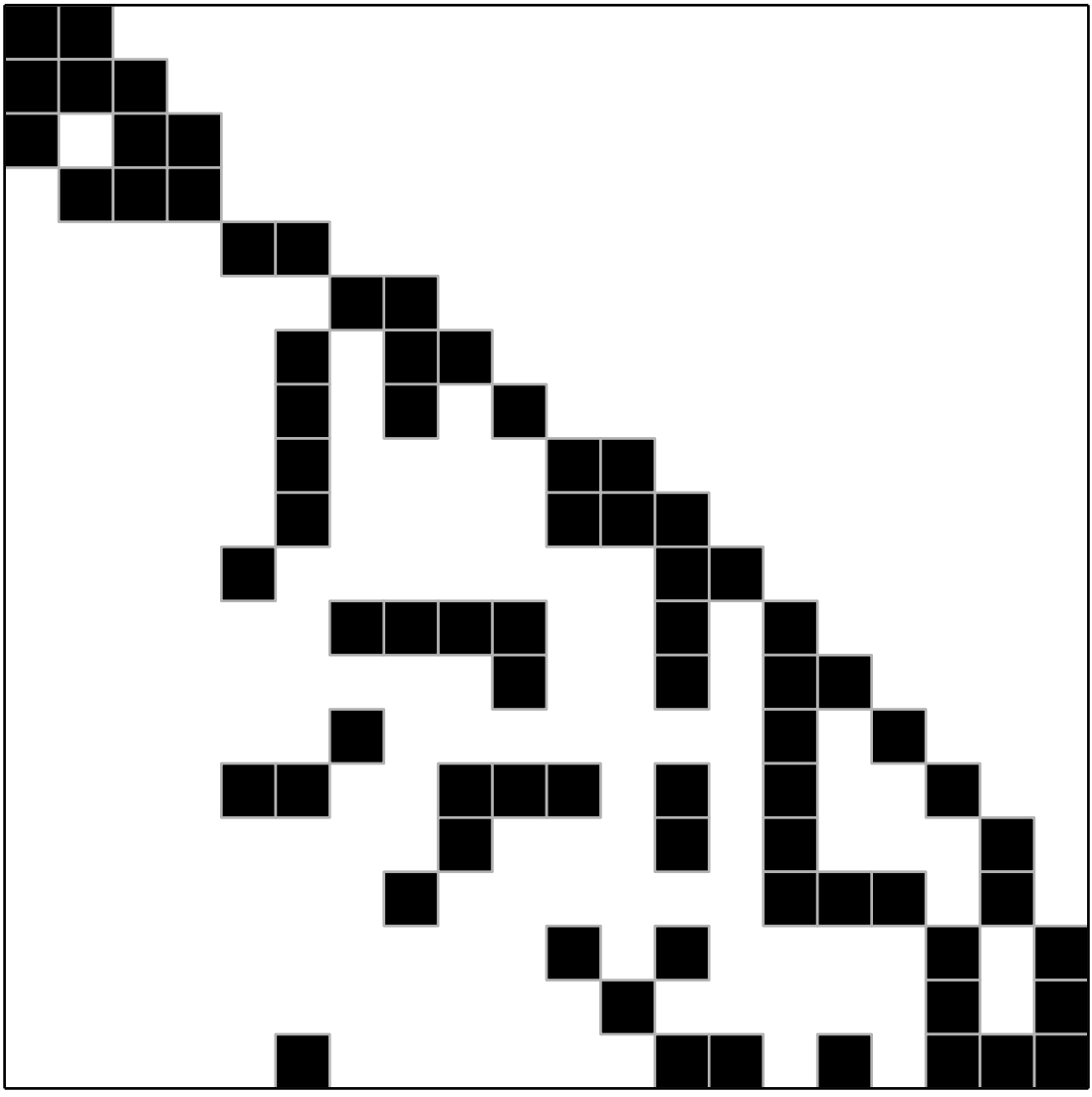

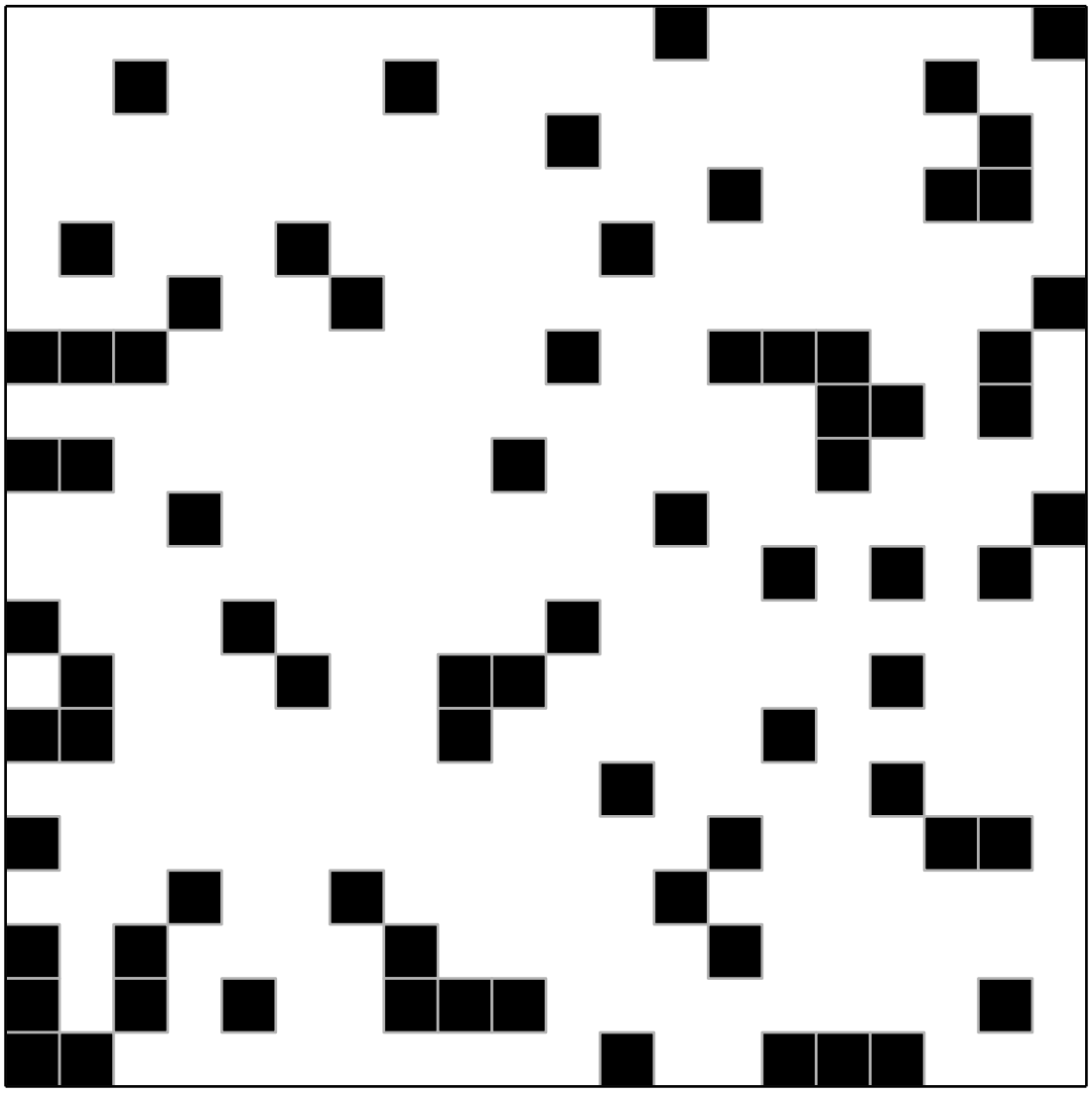
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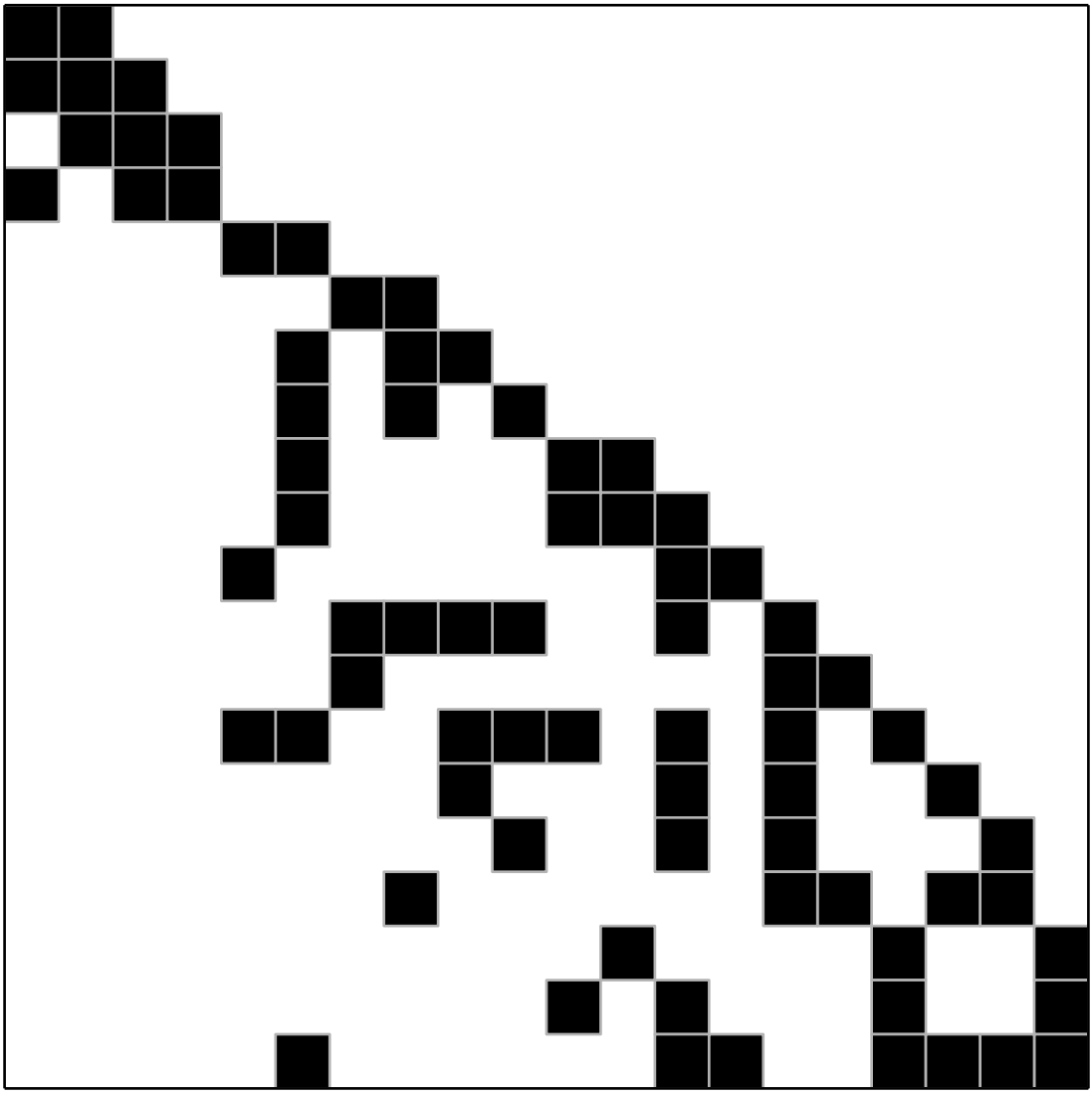
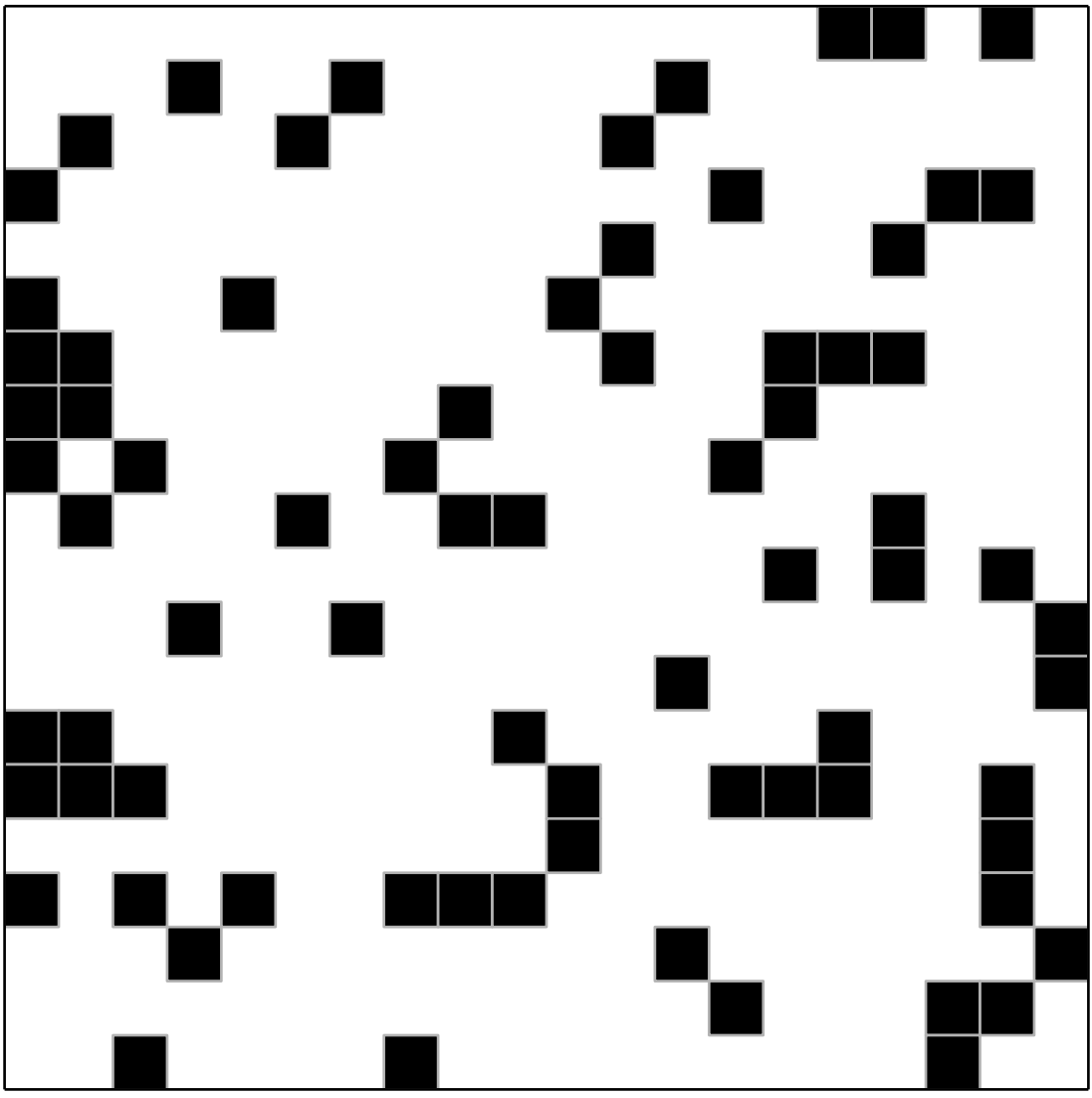
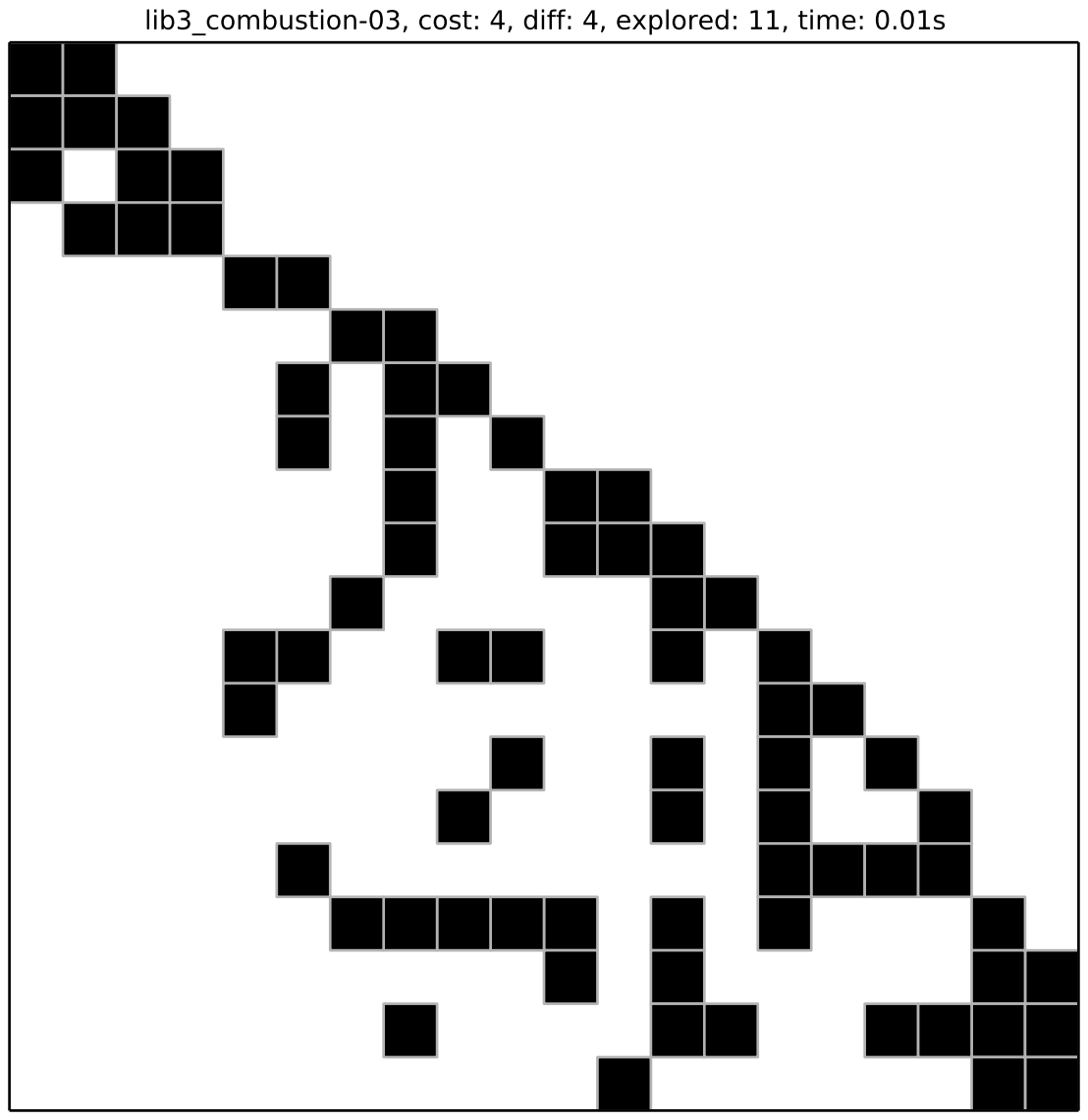
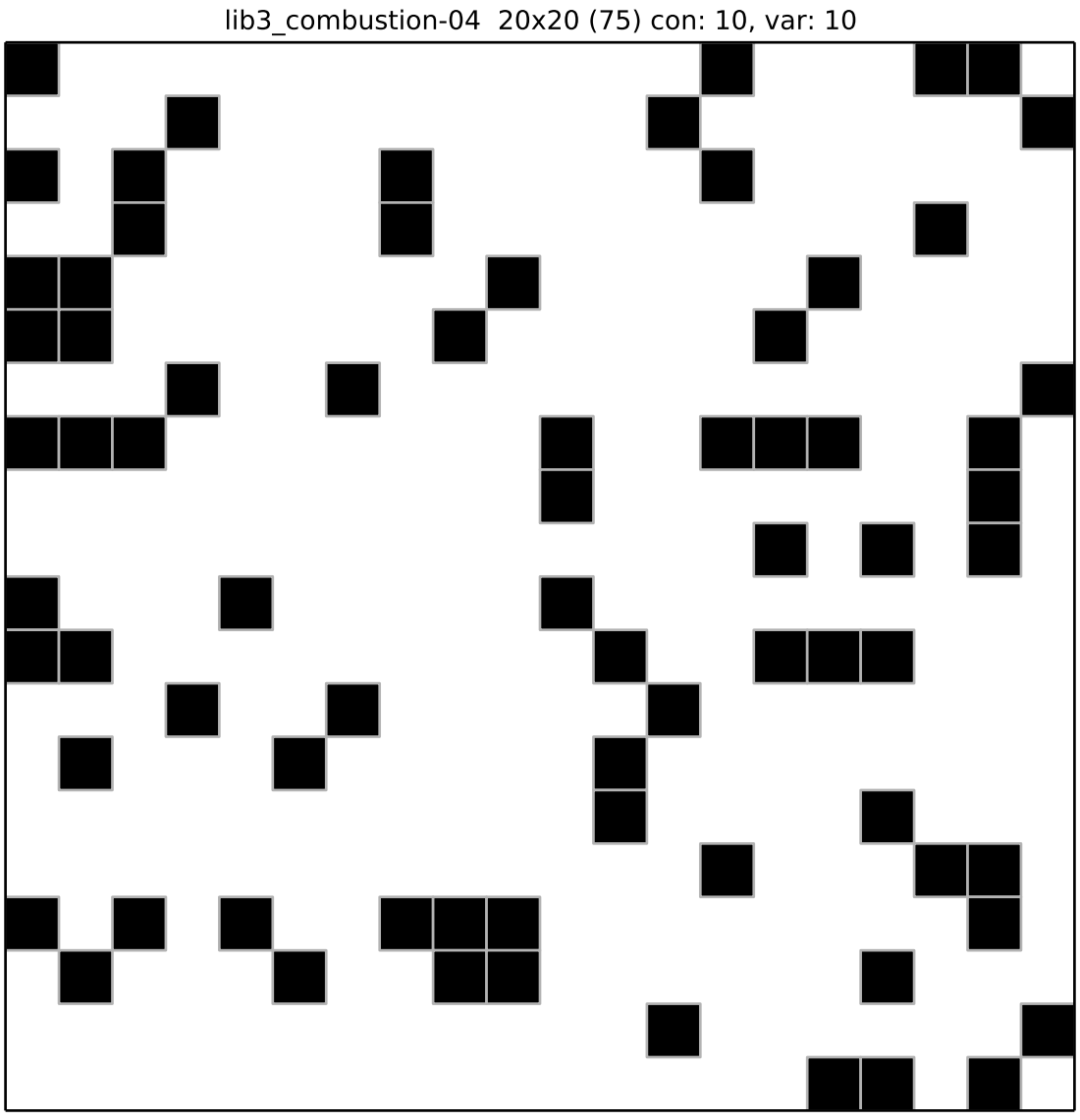
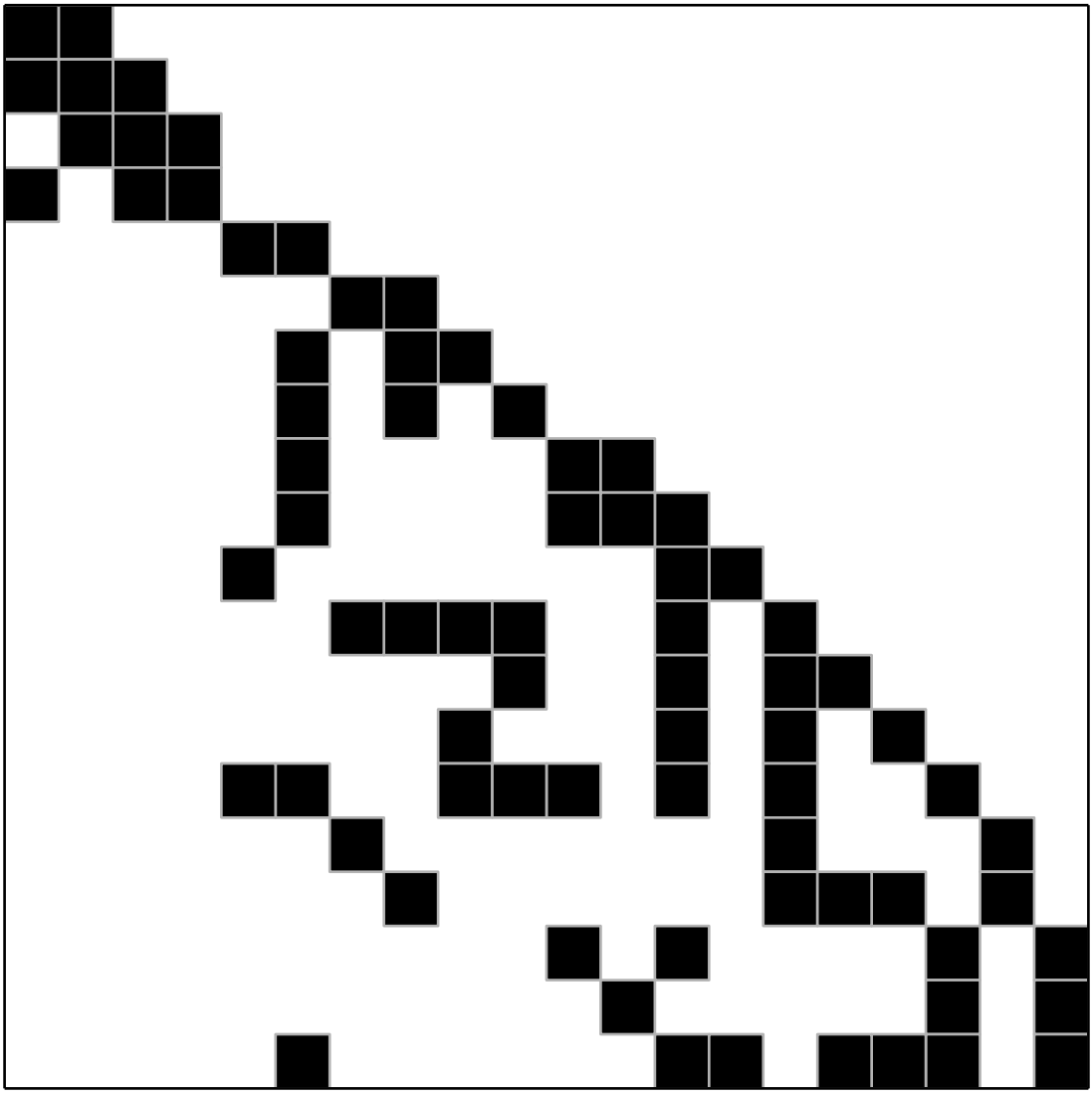


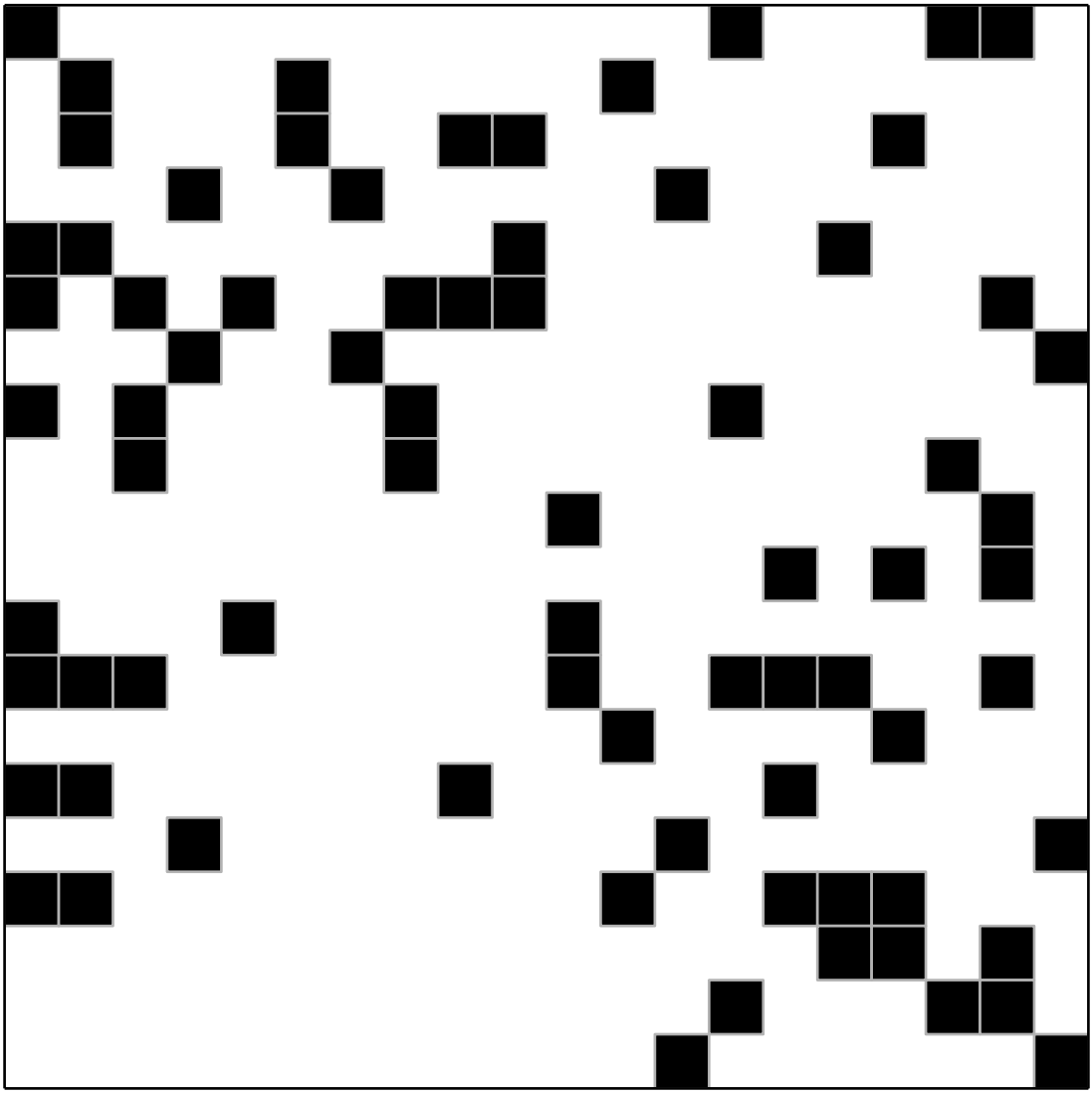

lib3_combustion-03 20x20 (75) con: 10, var: 10

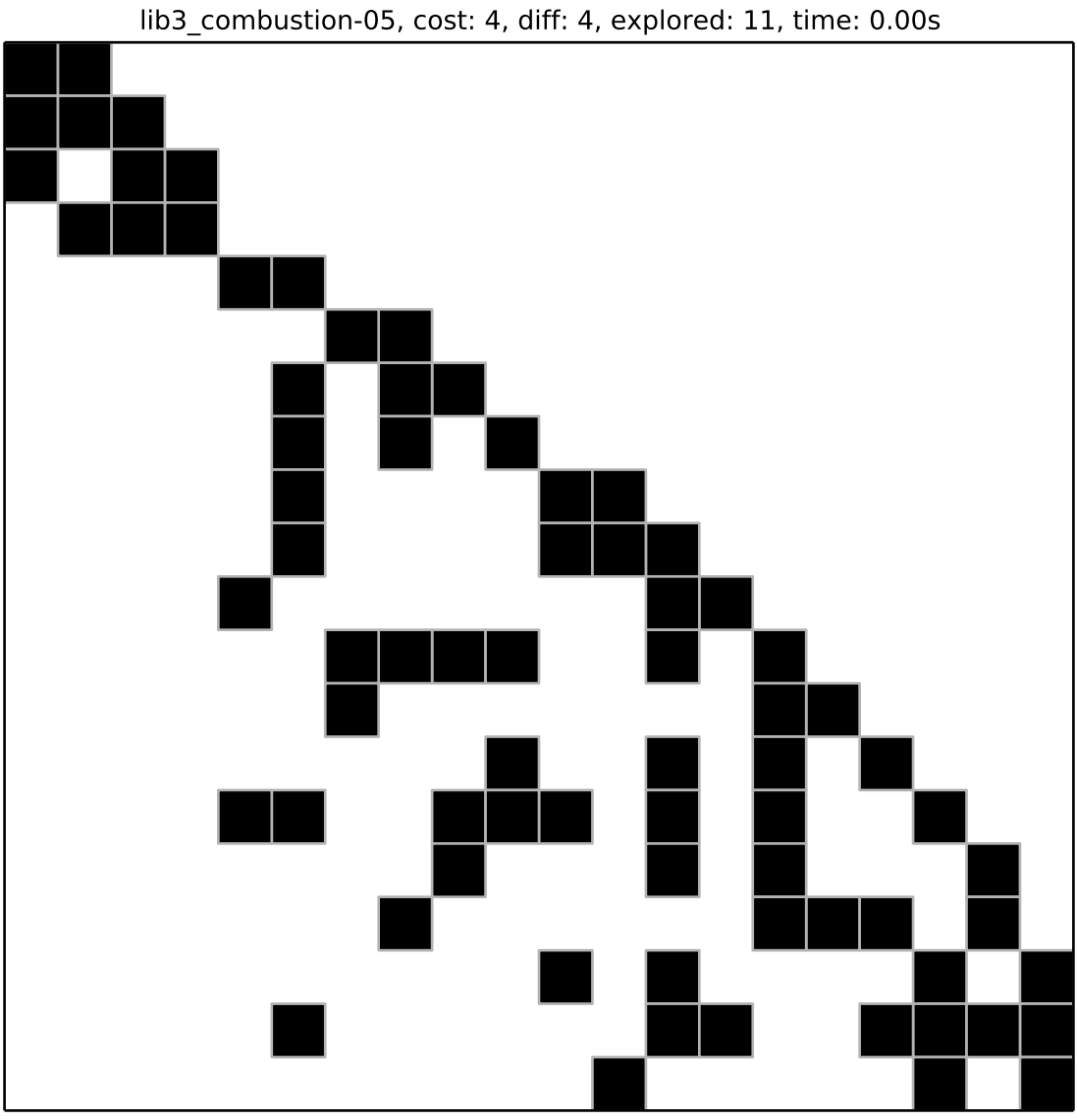

lib3_combustion-03, cost: 4, diff: 4, explored: 11, time: 0.01s

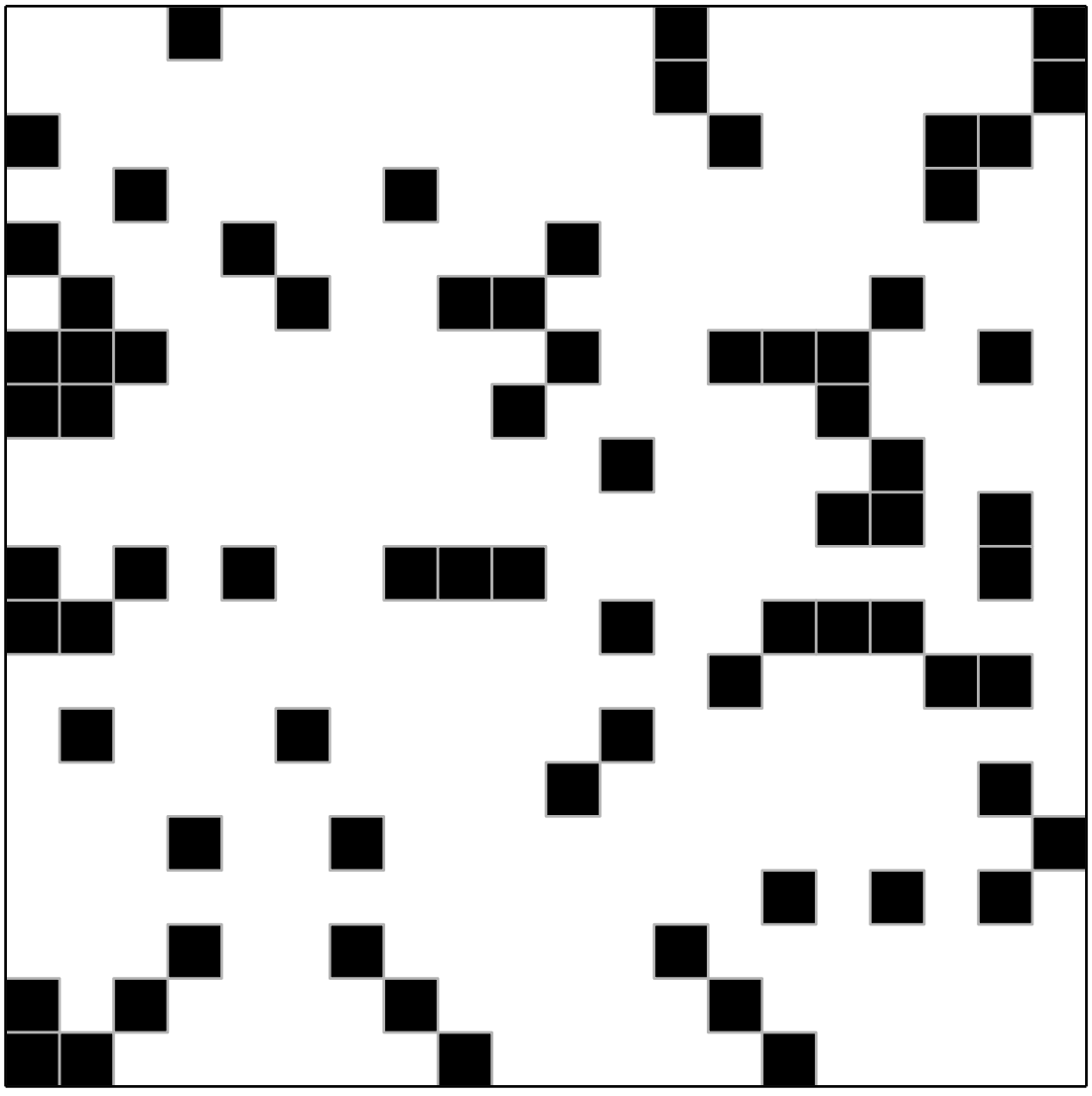

lib3_combustion-04 20x20 (75) con: 10, var: 10

lib3_combustion-04, cost: 4, diff: 4, explored: 11, time: 0.00s

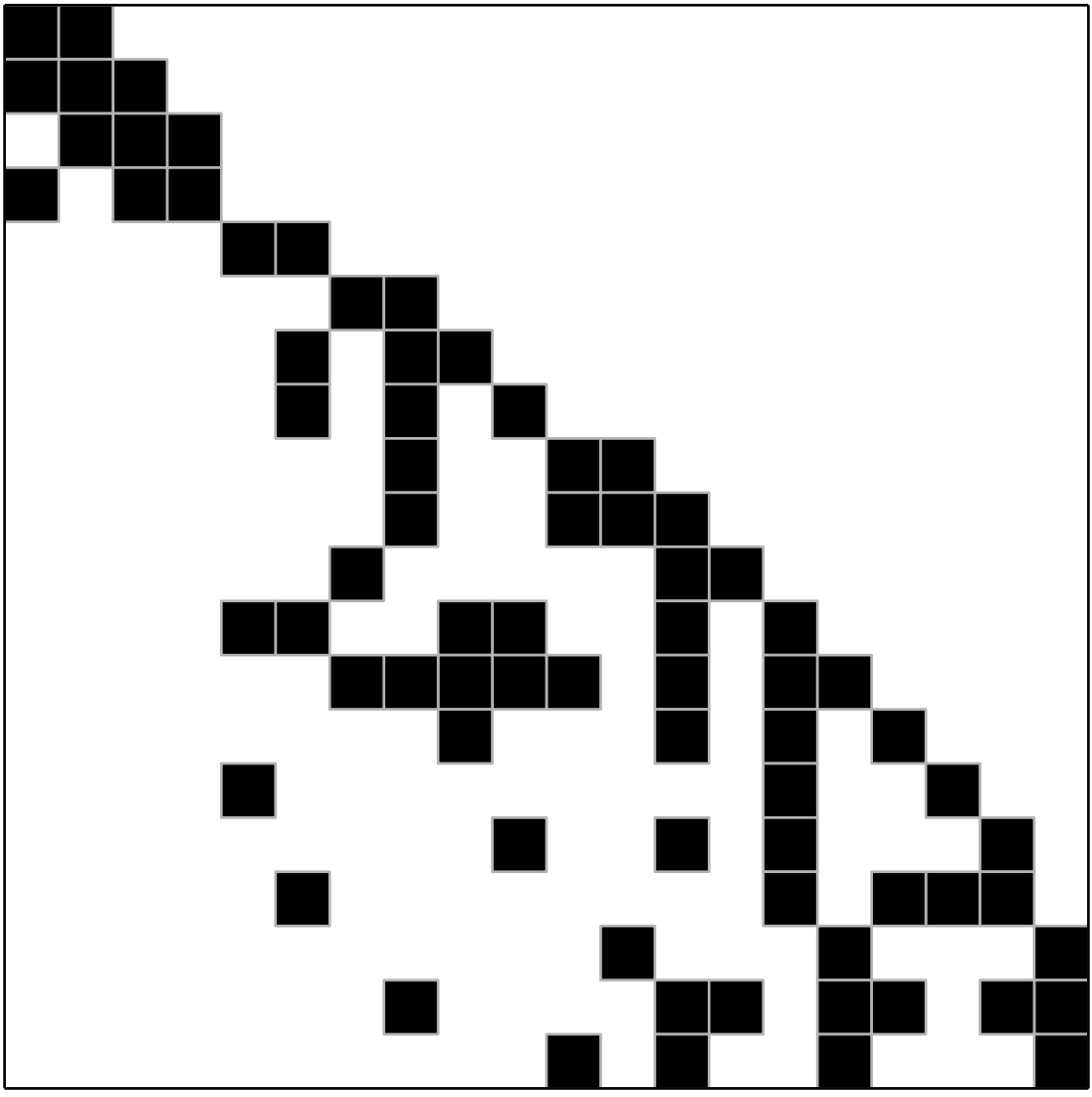



lib3_combustion-05 20x20 (75) con: 10, var: 10

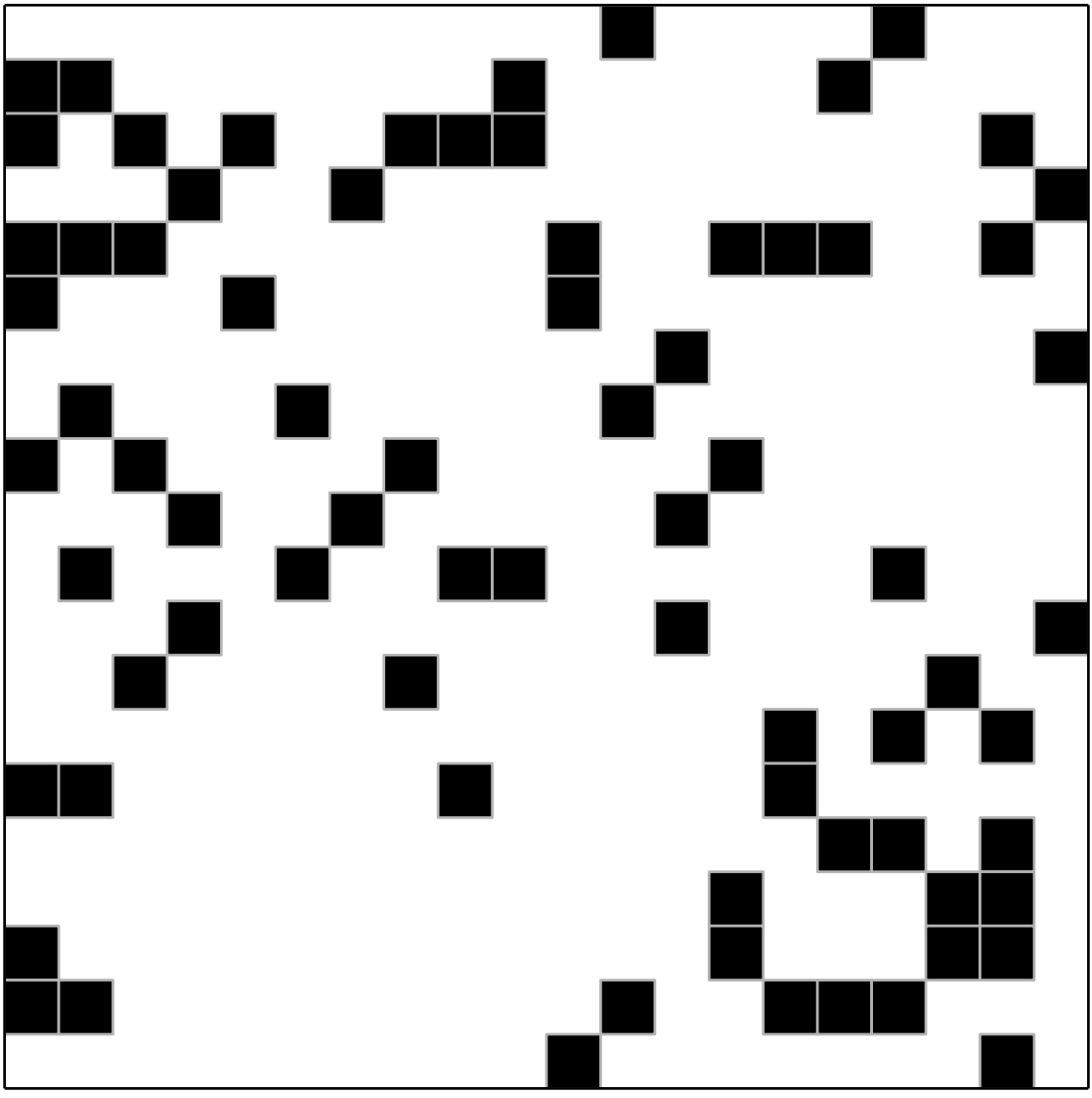

lib3_combustion-05, cost: 4, diff: 4, explored: 11, time: 0.00s

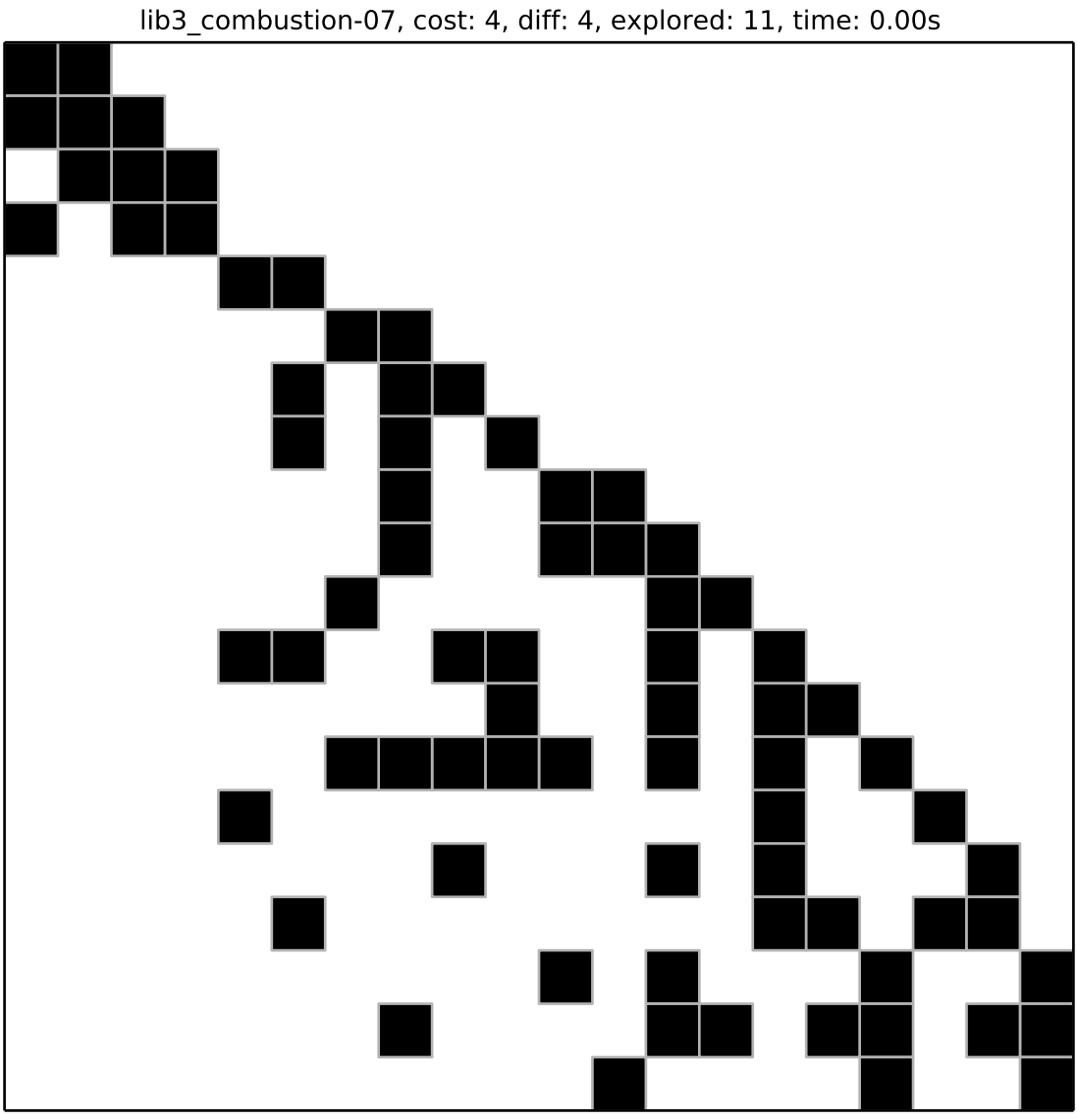

lib3_combustion-06 20x20 (75) con: 10, var: 10

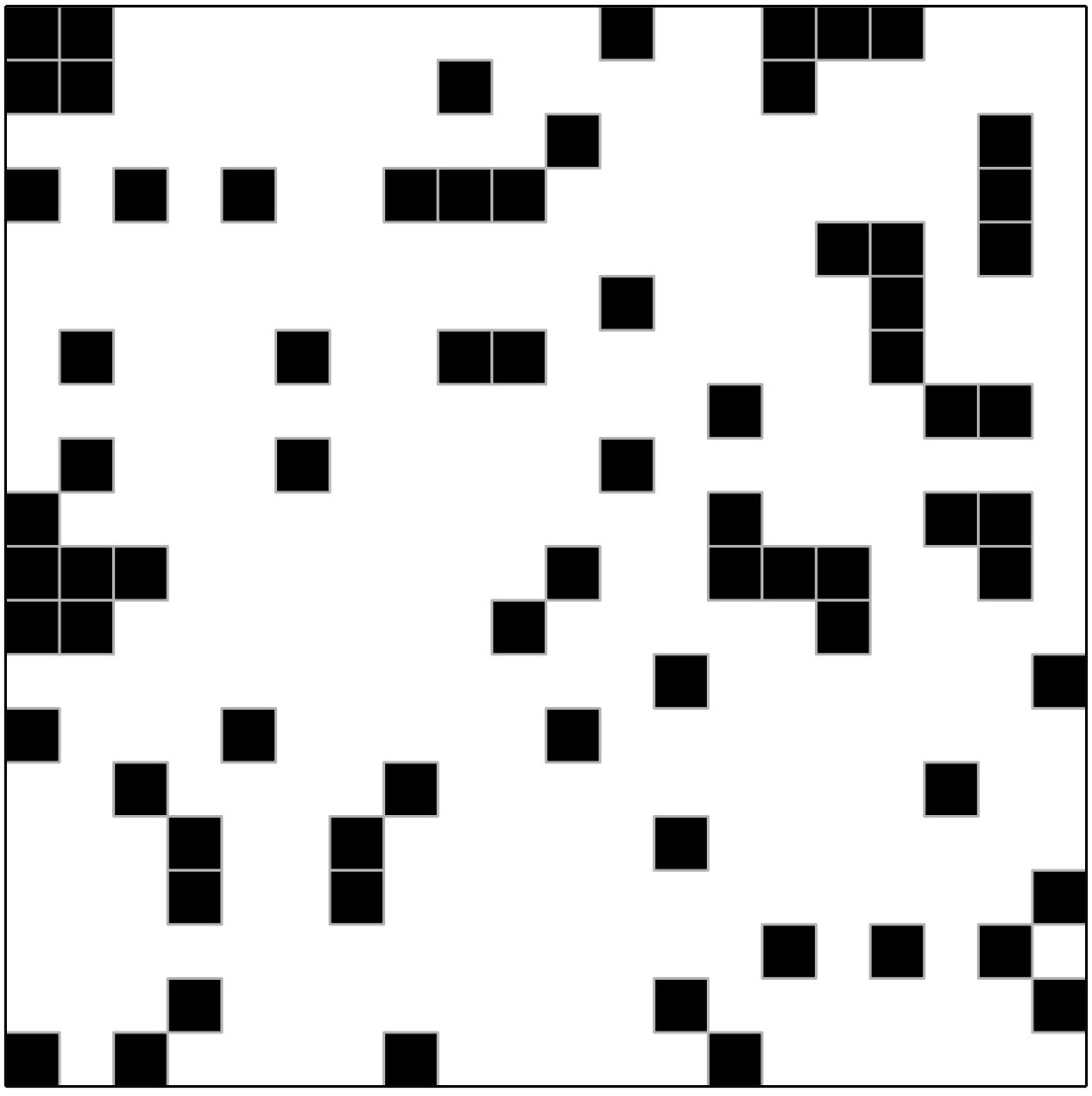
lib3_combustion-06, cost: 4, diff: 4, explored: 11, time: 0.01s



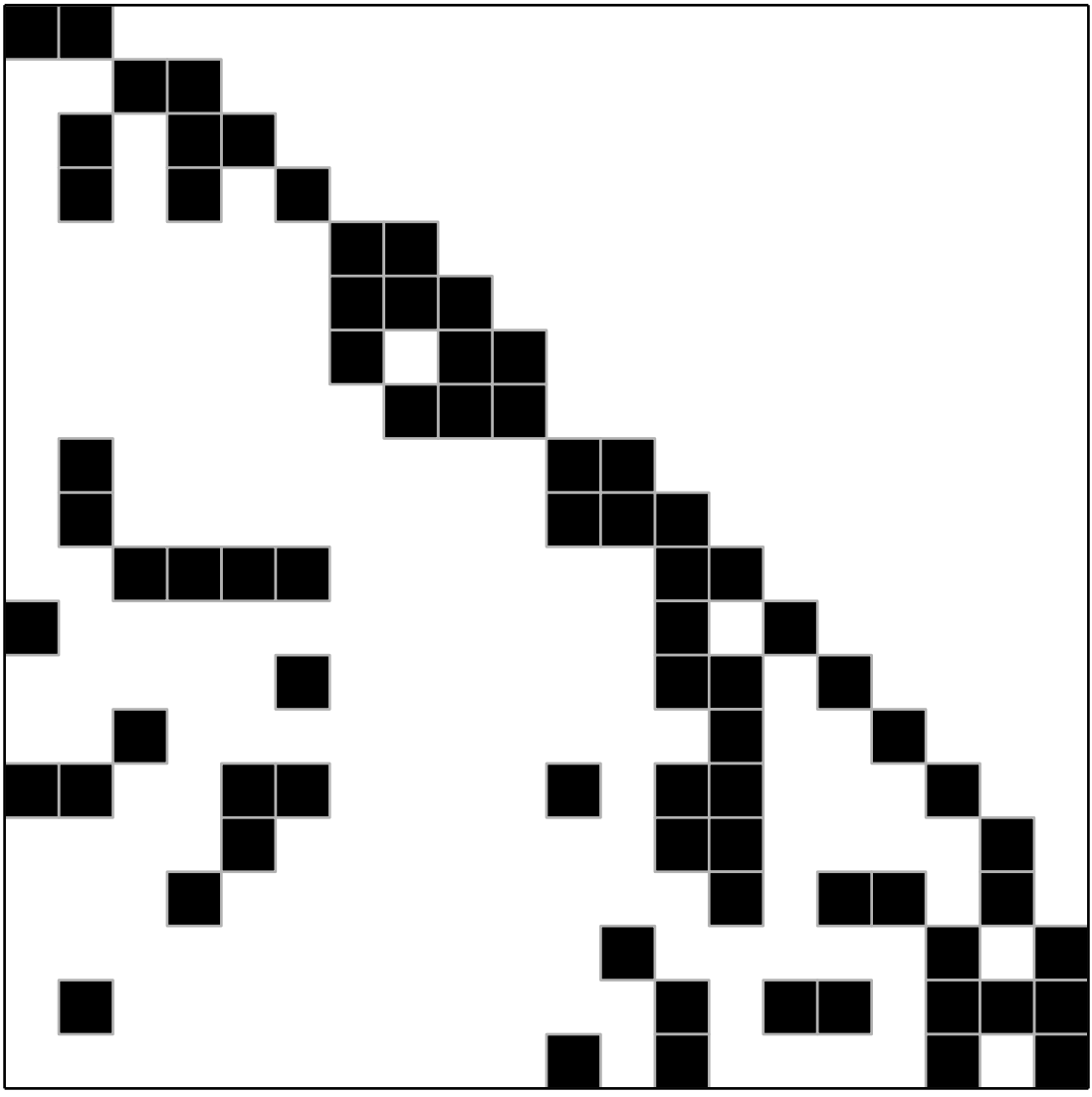
lib3_combustion-07 20x20 (75) con: 10, var: 10



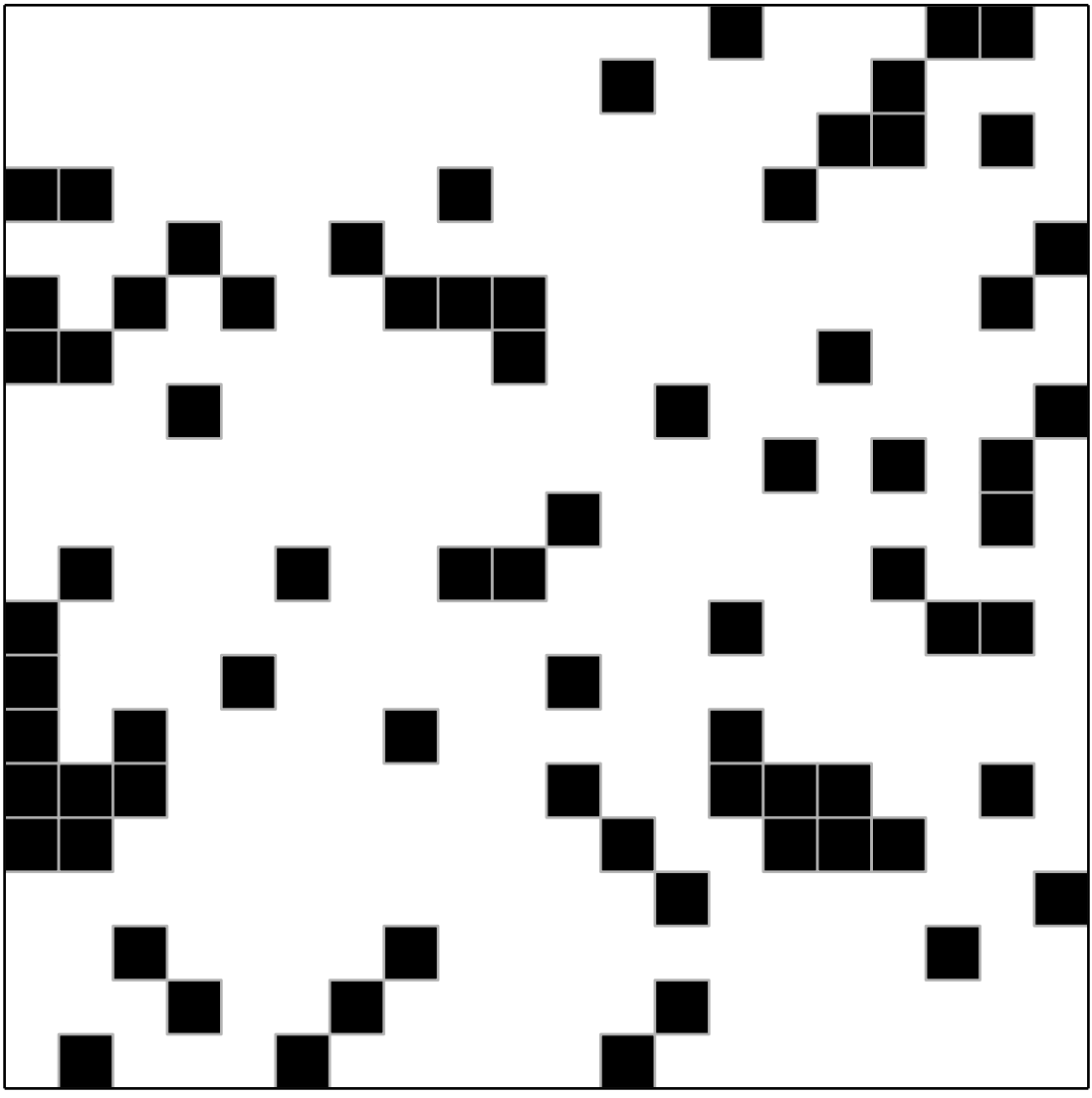

lib3_combustion-07, cost: 4, diff: 4, explored: 11, time: 0.00s


lib3_combustion-08 20x20 (75) con: 10, var: 10

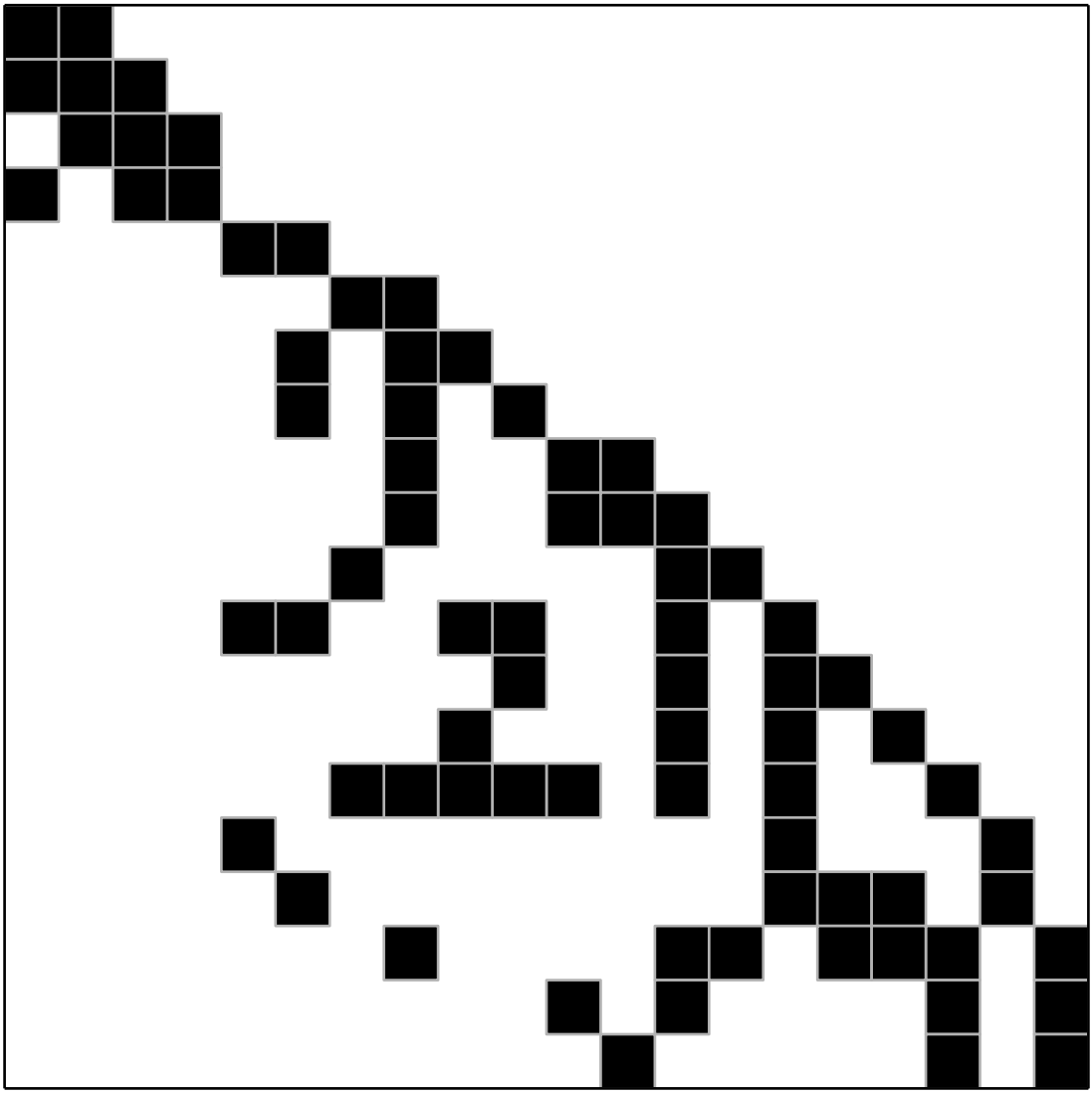
lib3_combustion-08, cost: 4, diff: 4, explored: 9, time: 0.00s

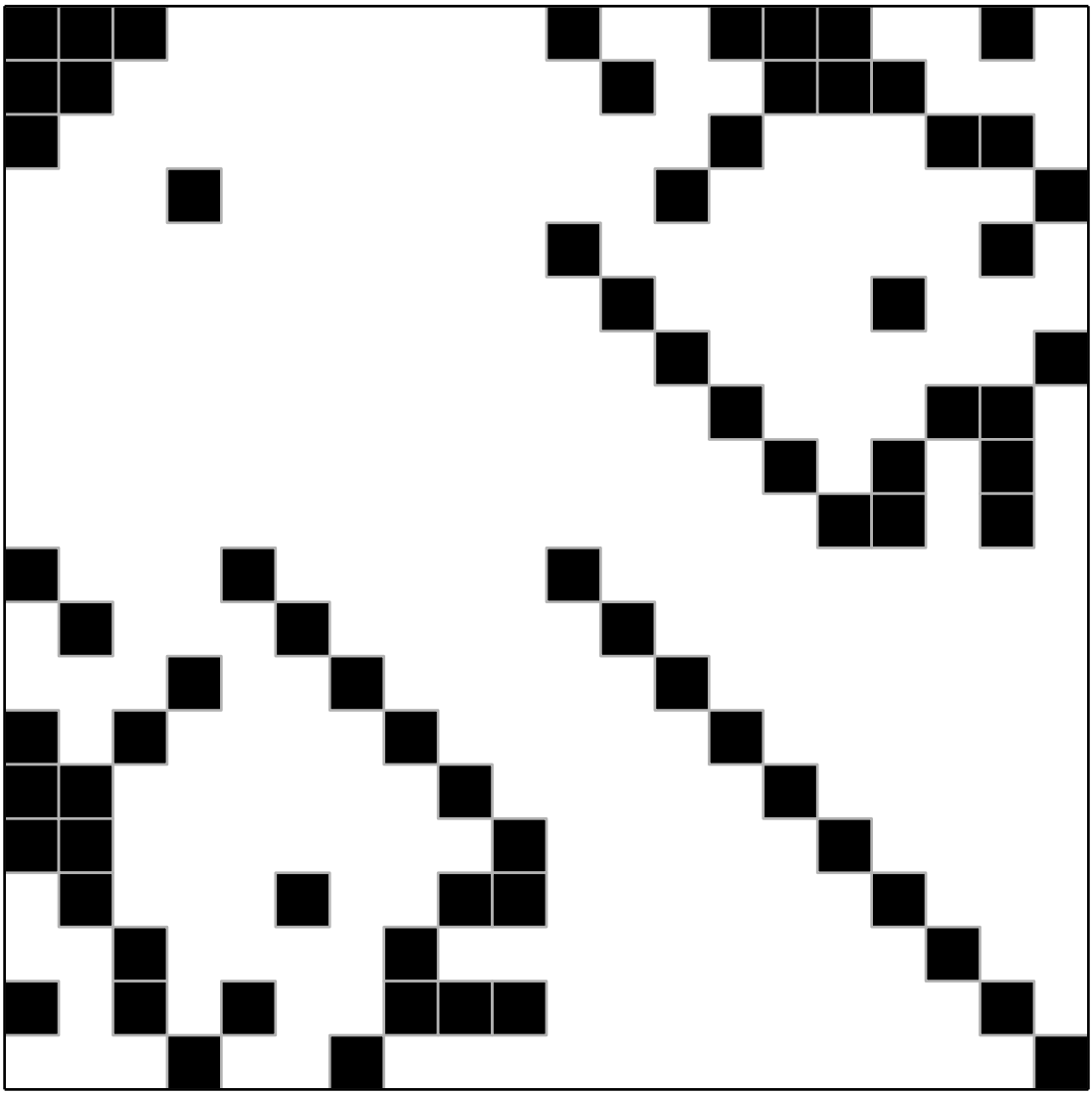


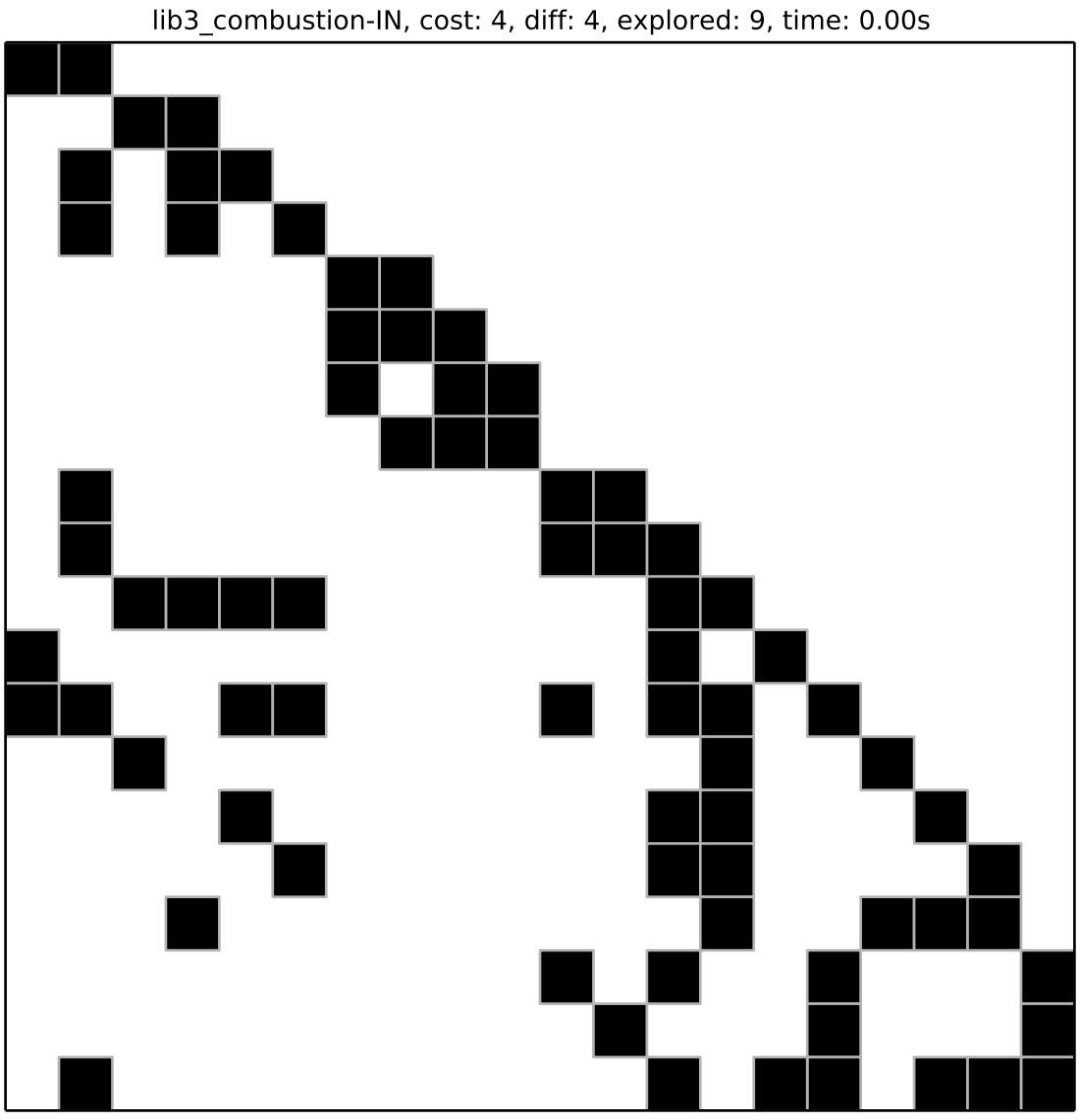
lib3_combustion-09 20x20 (75) con: 10, var: 10

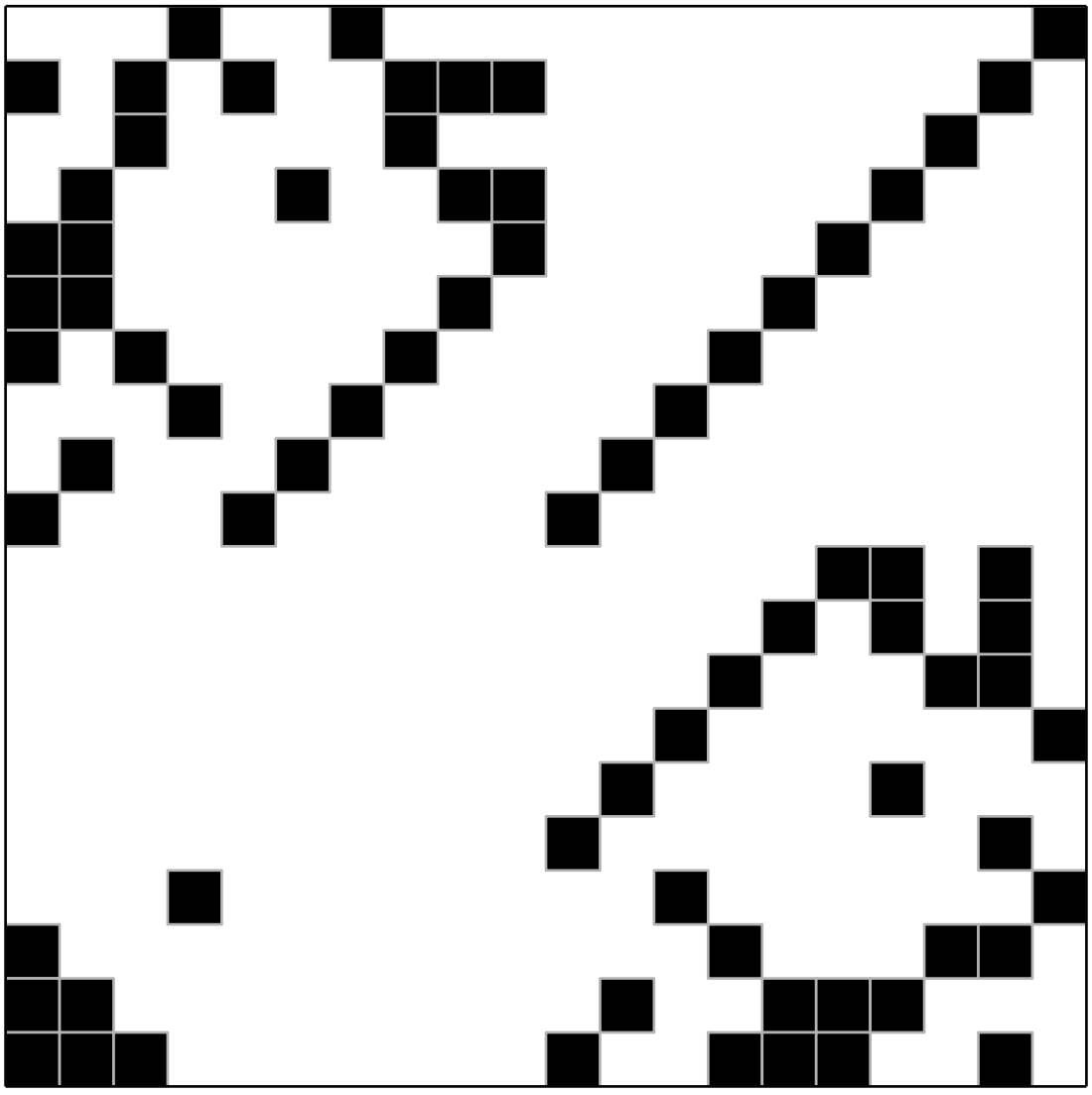


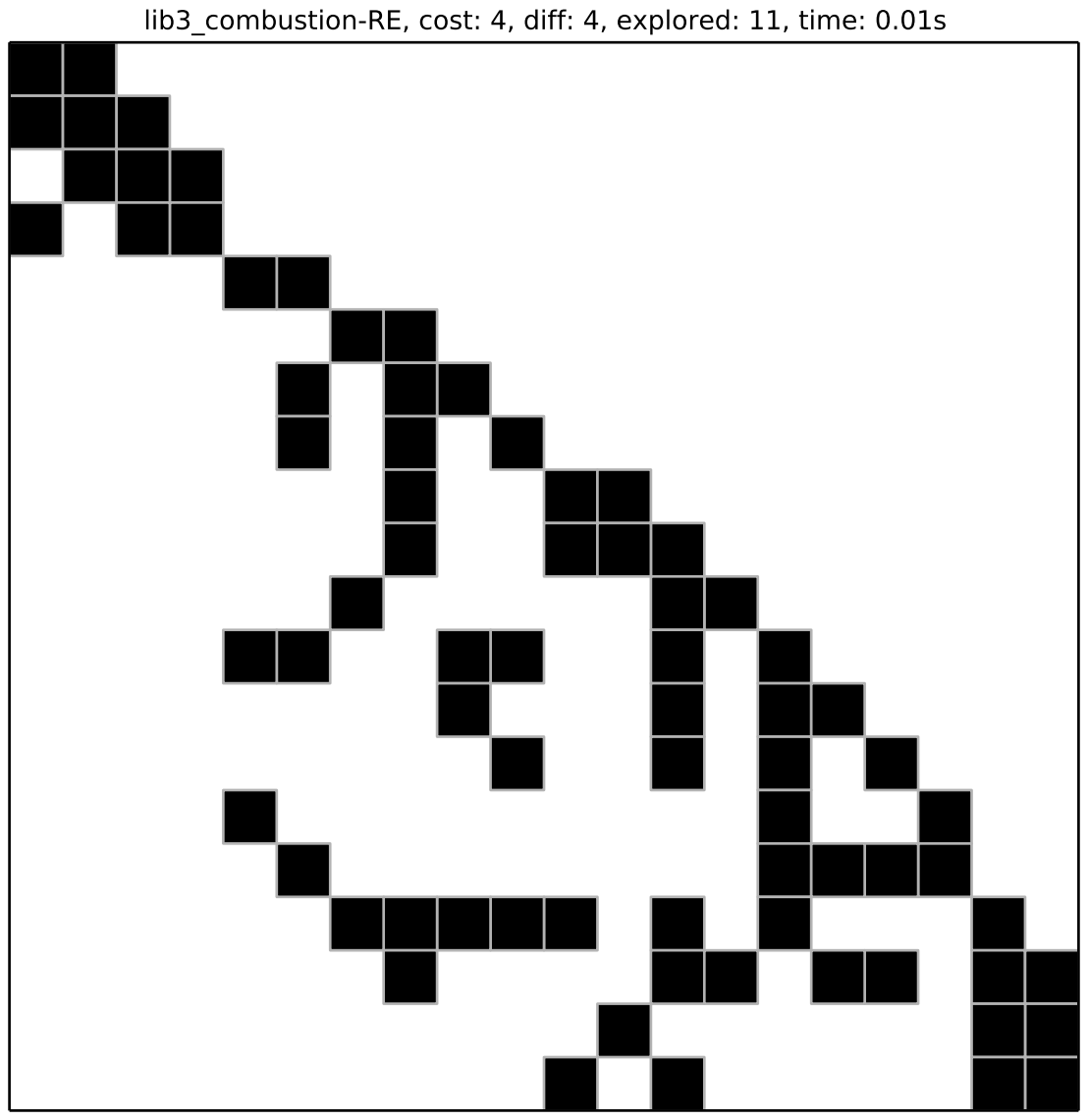
lib3_combustion-09, cost: 4, diff: 4, explored: 10, time: 0.01s



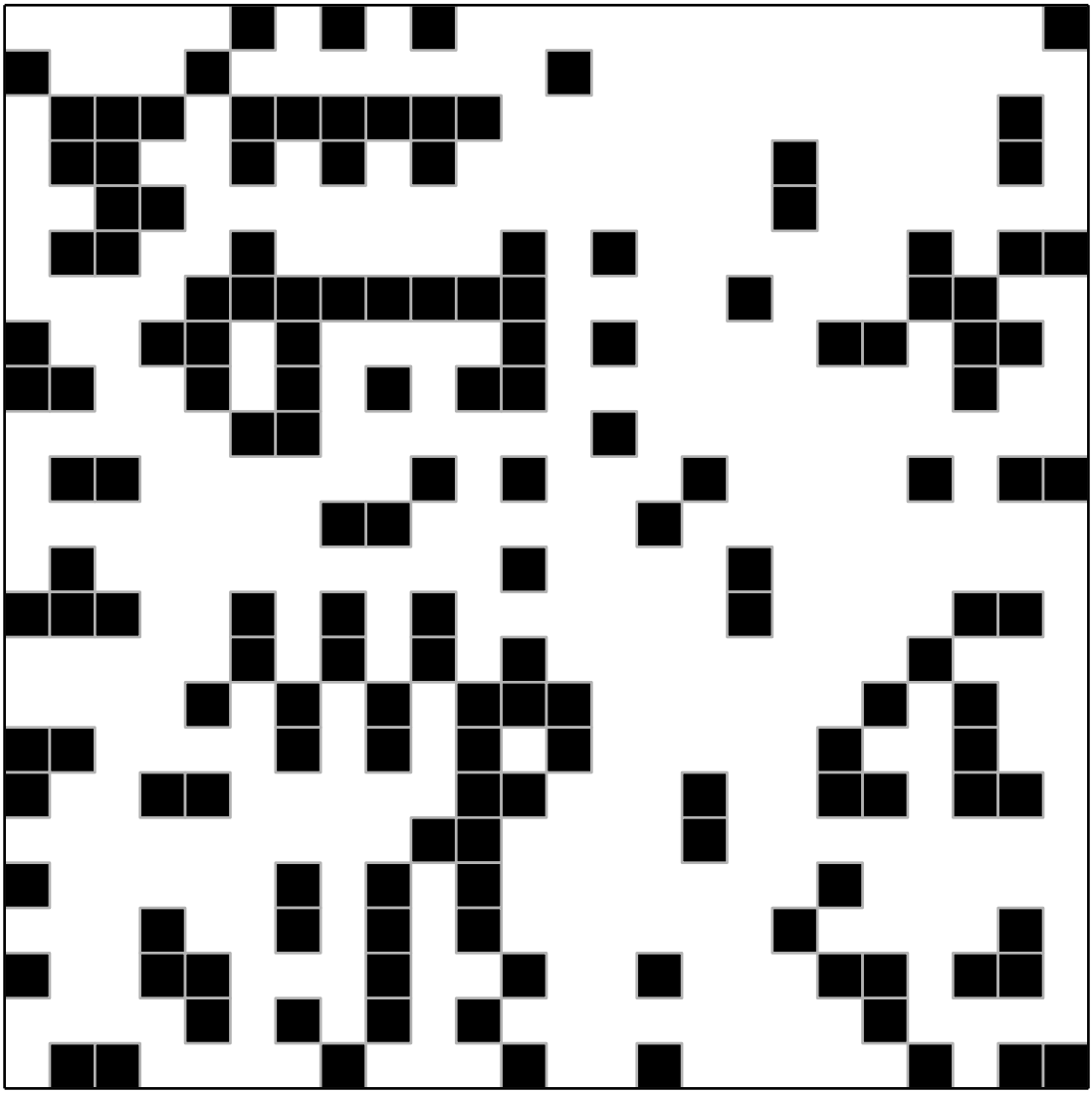

lib3_combustion-IN 20x20 (75) con: 10, var: 10

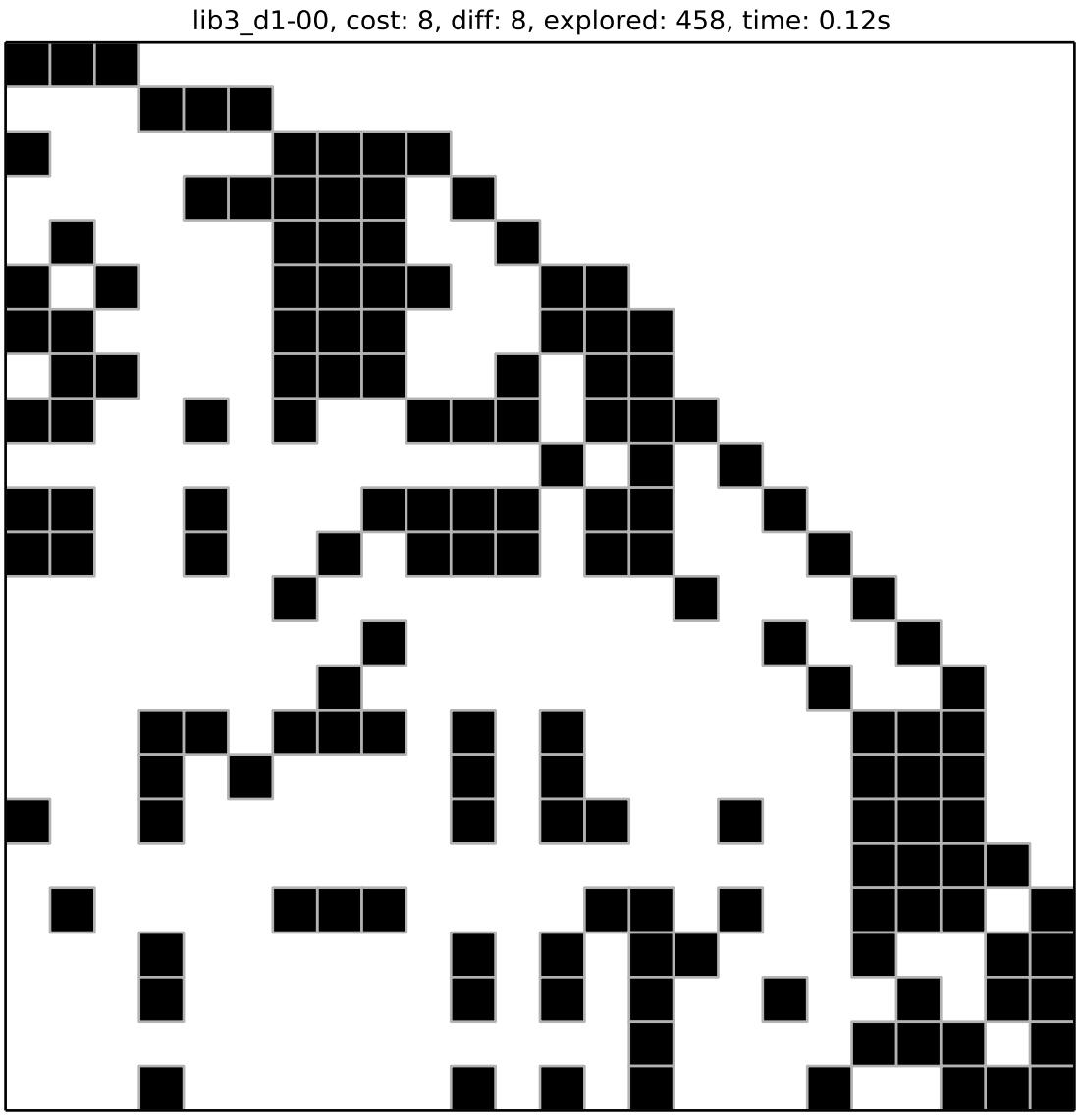

lib3_combustion-IN, cost: 4, diff: 4, explored: 9, time: 0.00s

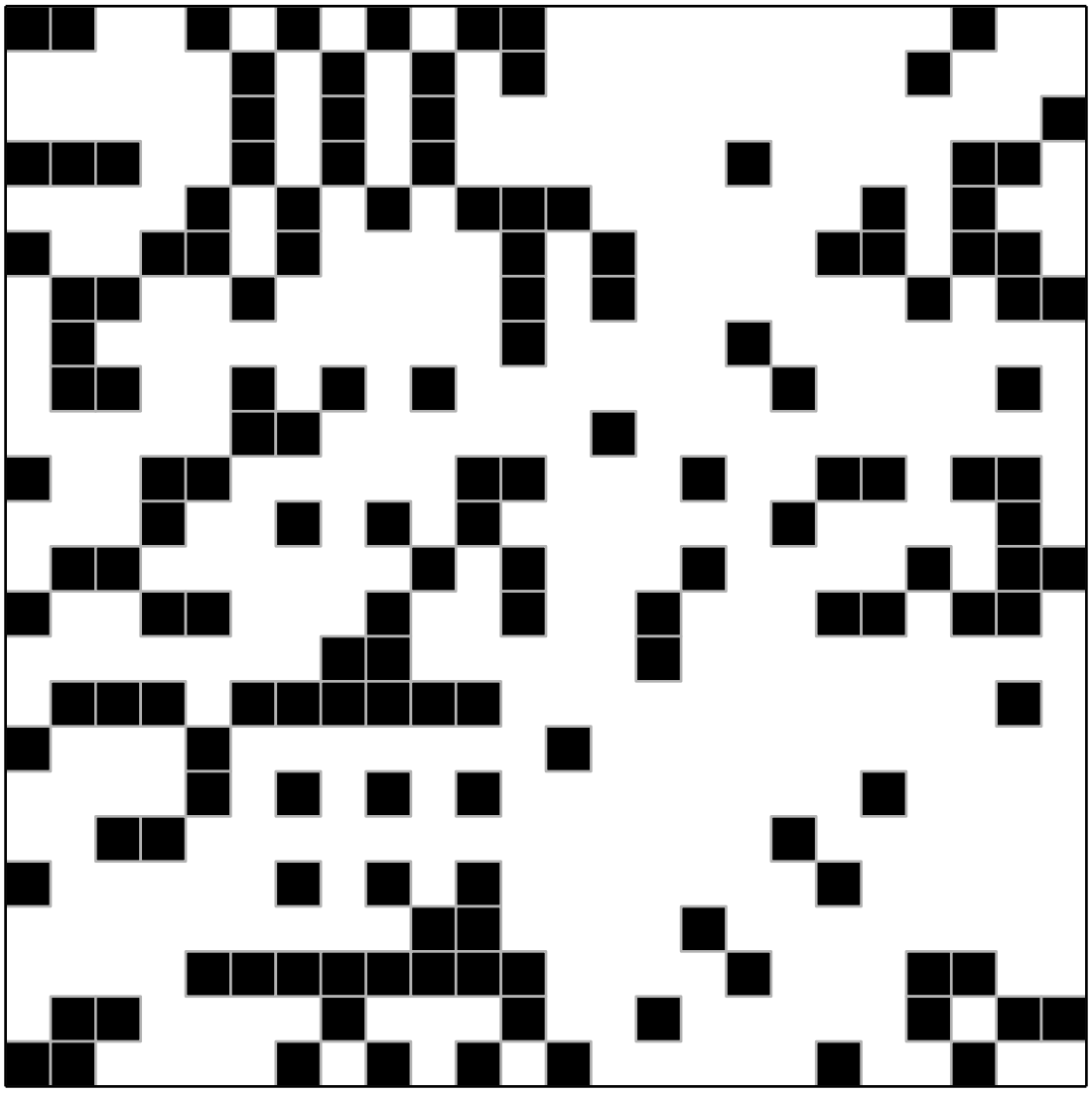

lib3_combustion-RE 20x20 (75) con: 10, var: 10

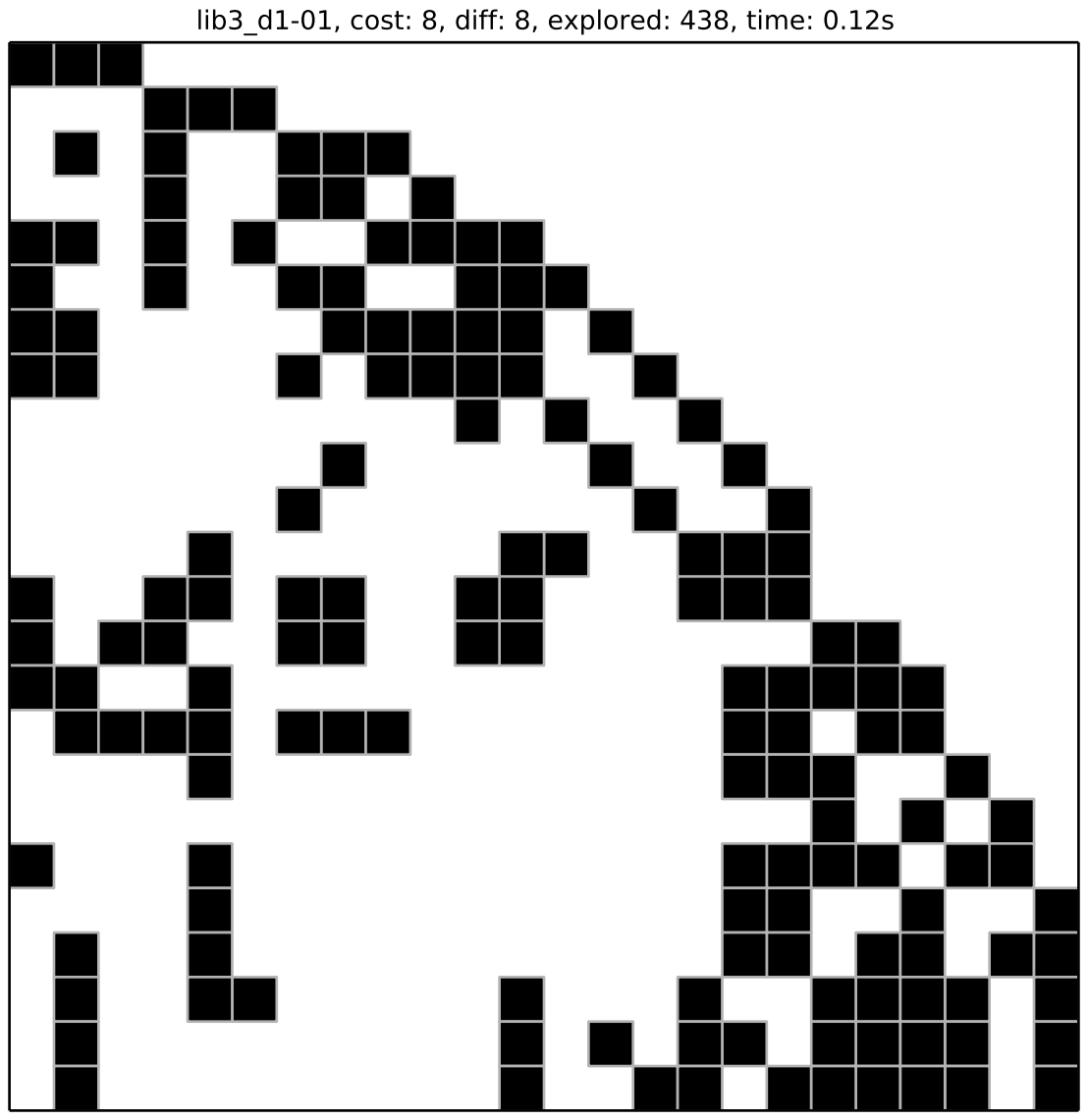

lib3_combustion-RE, cost: 4, diff: 4, explored: 11, time: 0.01s

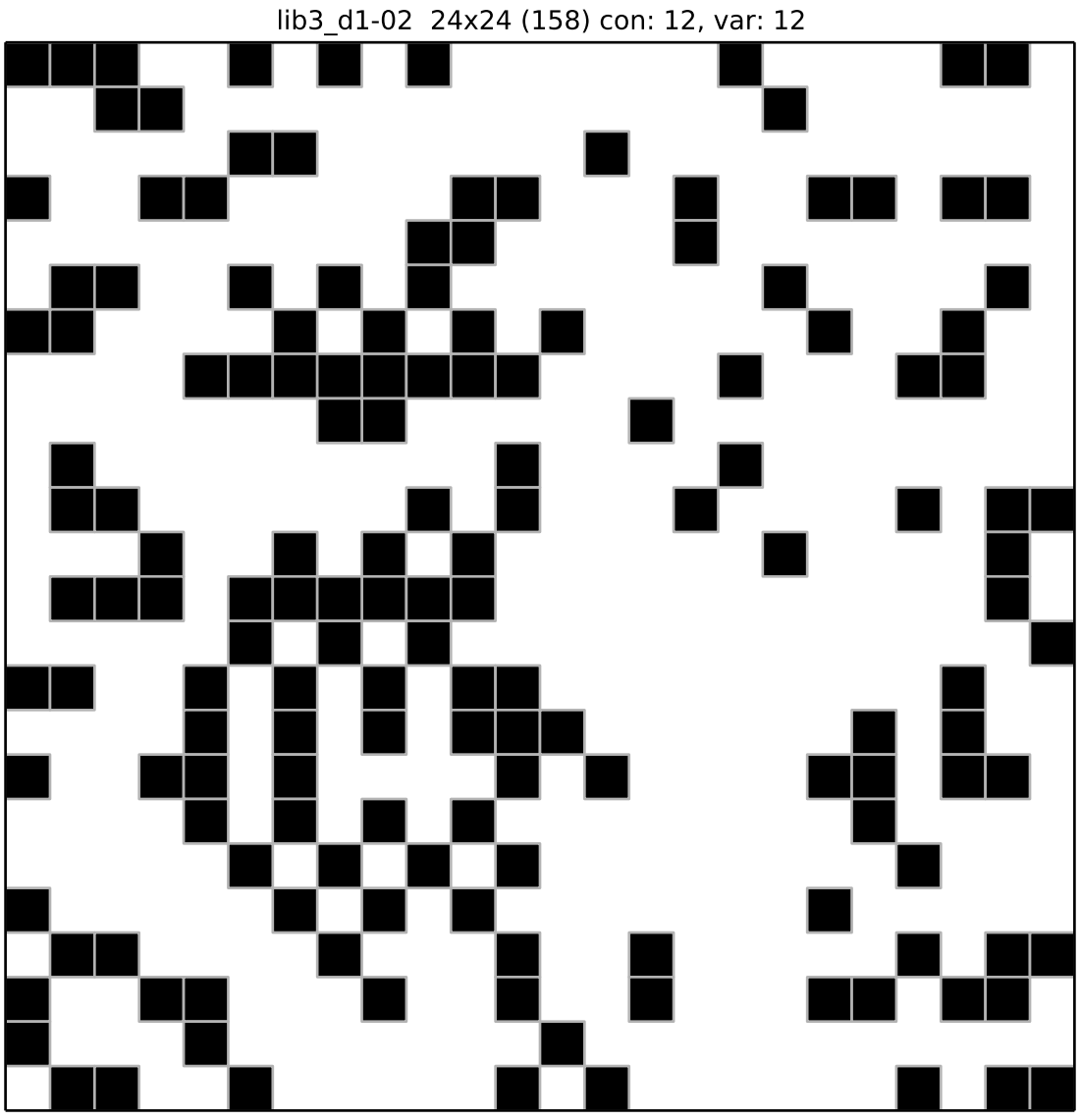
lib3_d1-00 24x24 (158) con: 12, var: 12

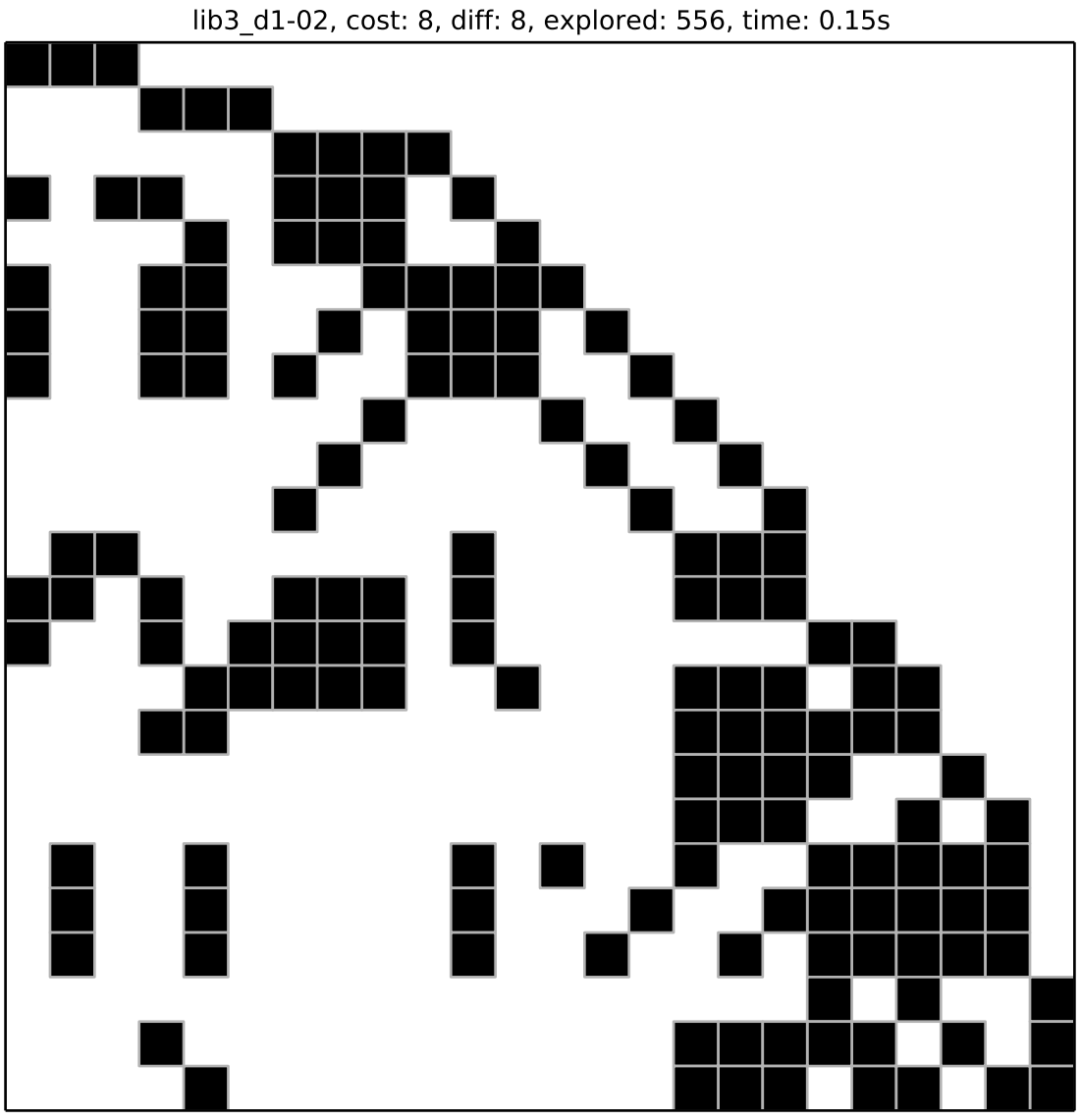


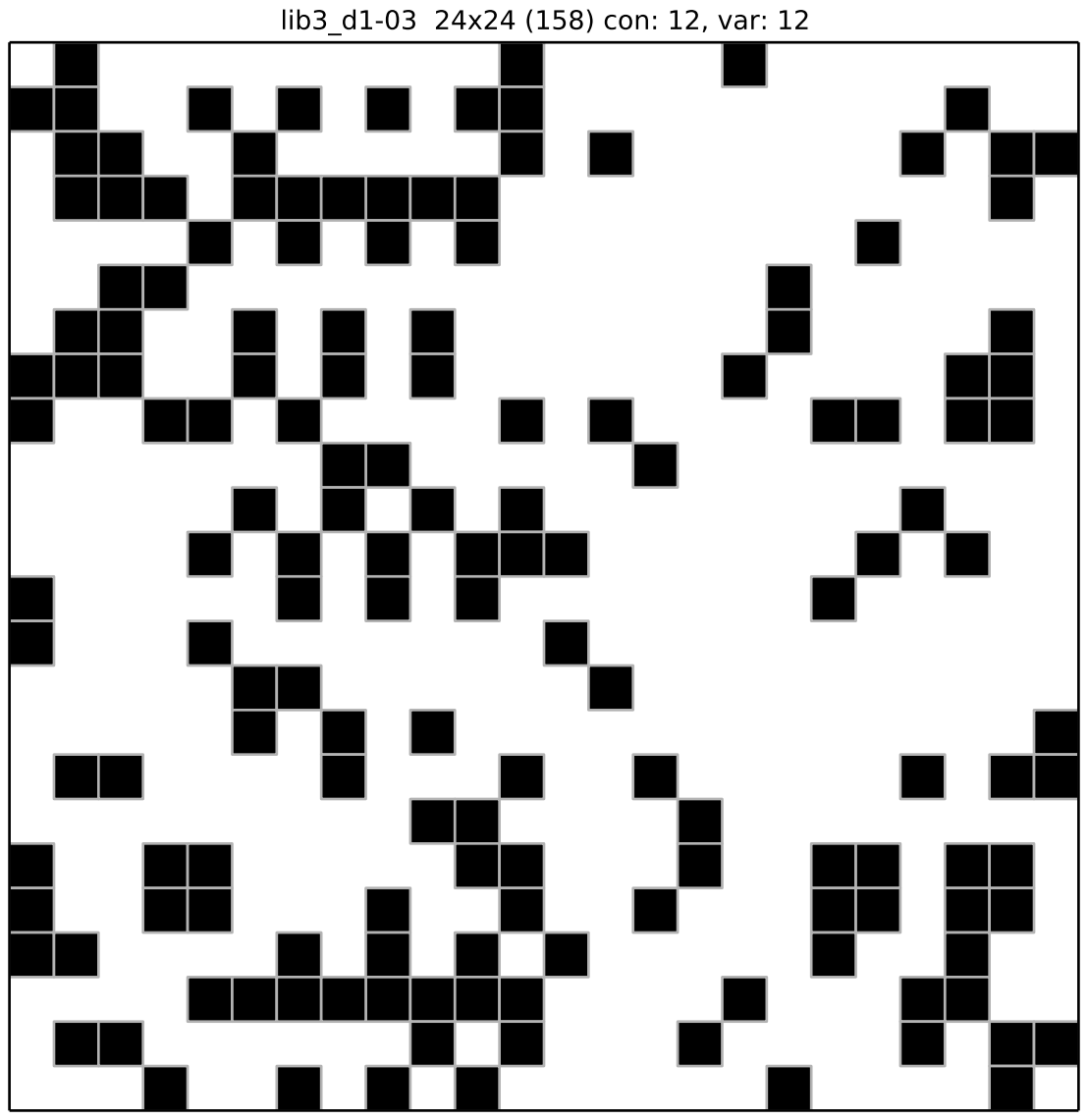

lib3_d1-00, cost: 8, diff: 8, explored: 458, time: 0.12s

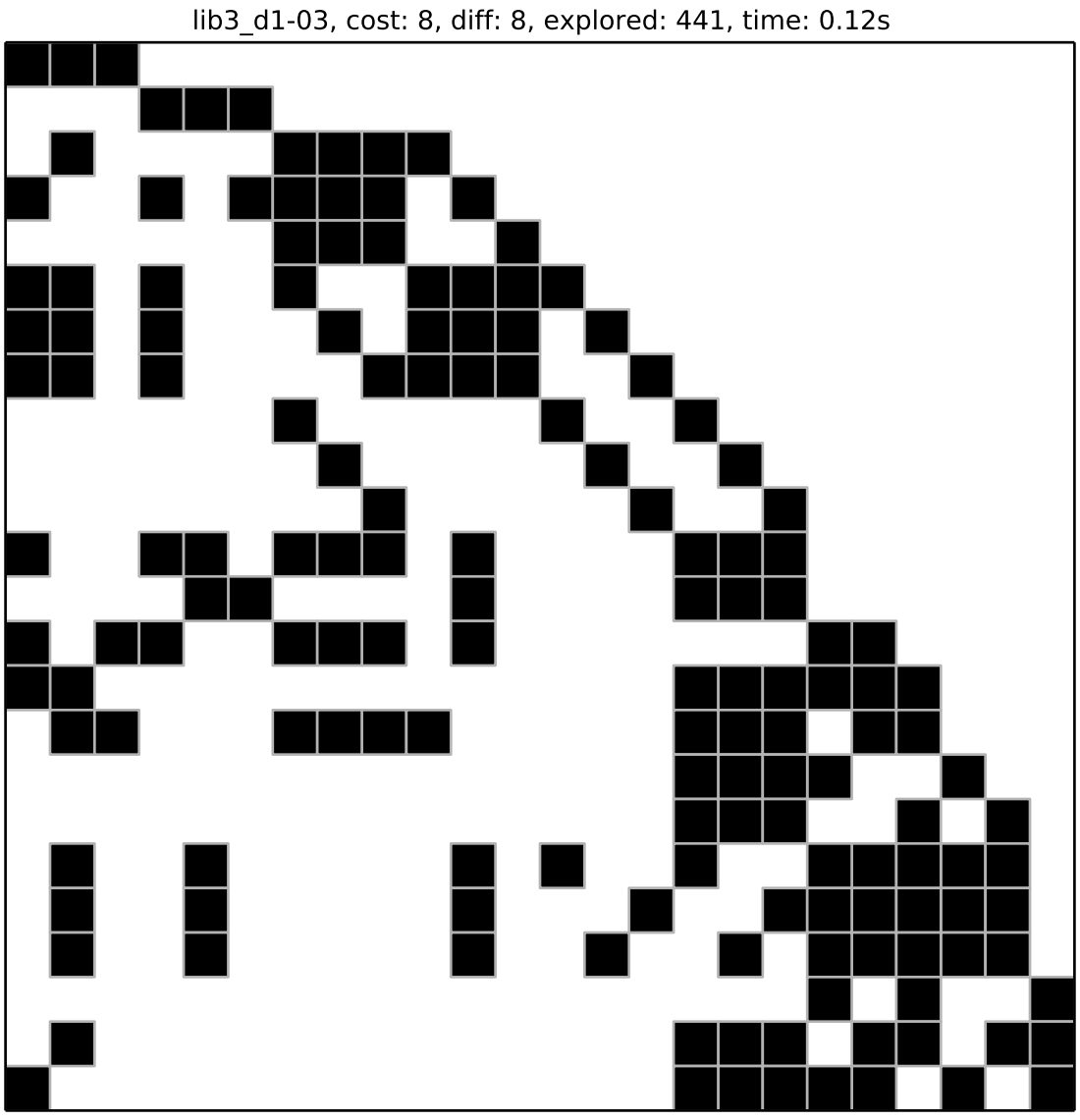

lib3_d1-01 24x24 (158) con: 12, var: 12


lib3_d1-01, cost: 8, diff: 8, explored: 438, time: 0.12s

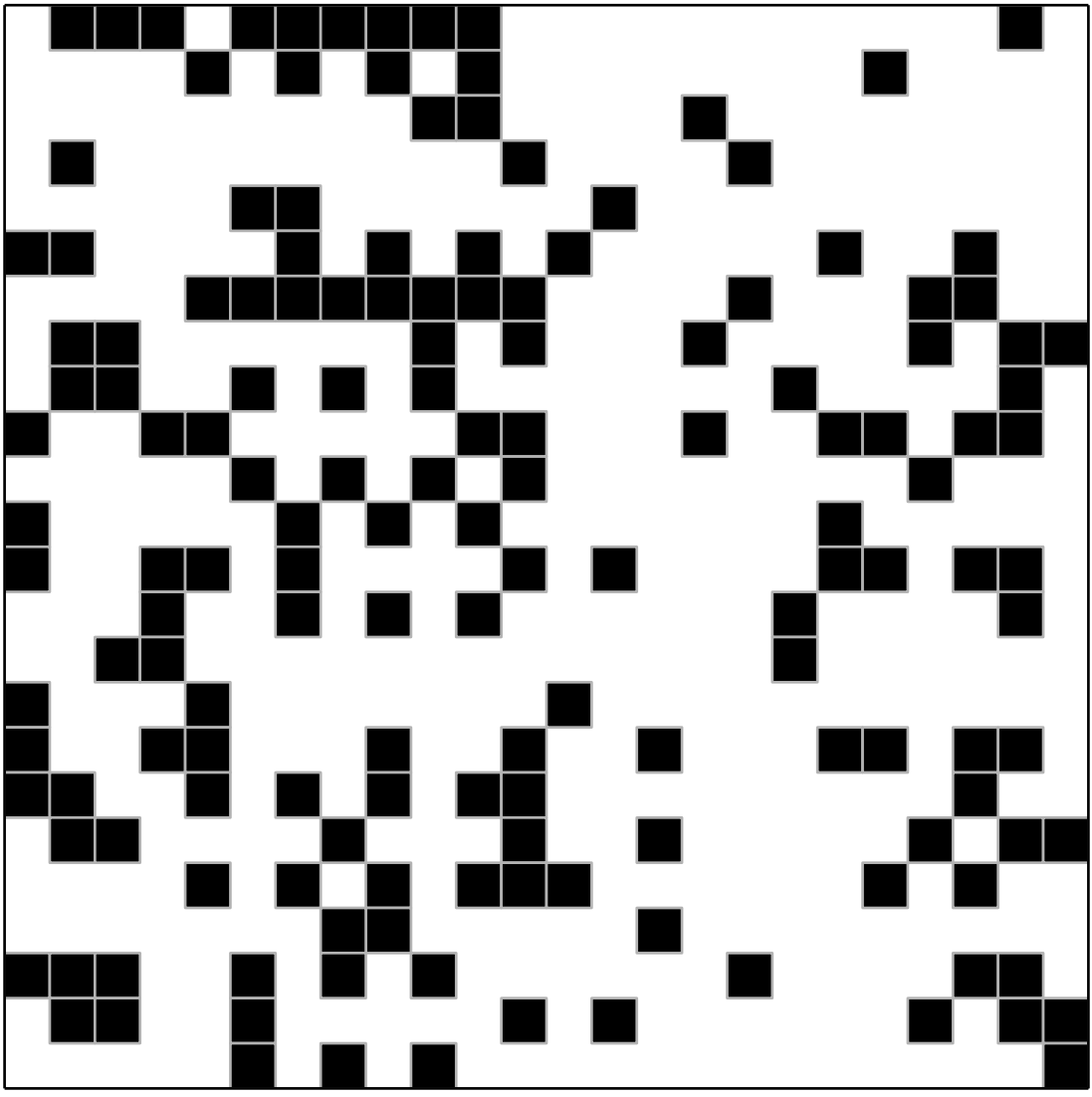

lib3_d1-02 24x24 (158) con: 12, var: 12

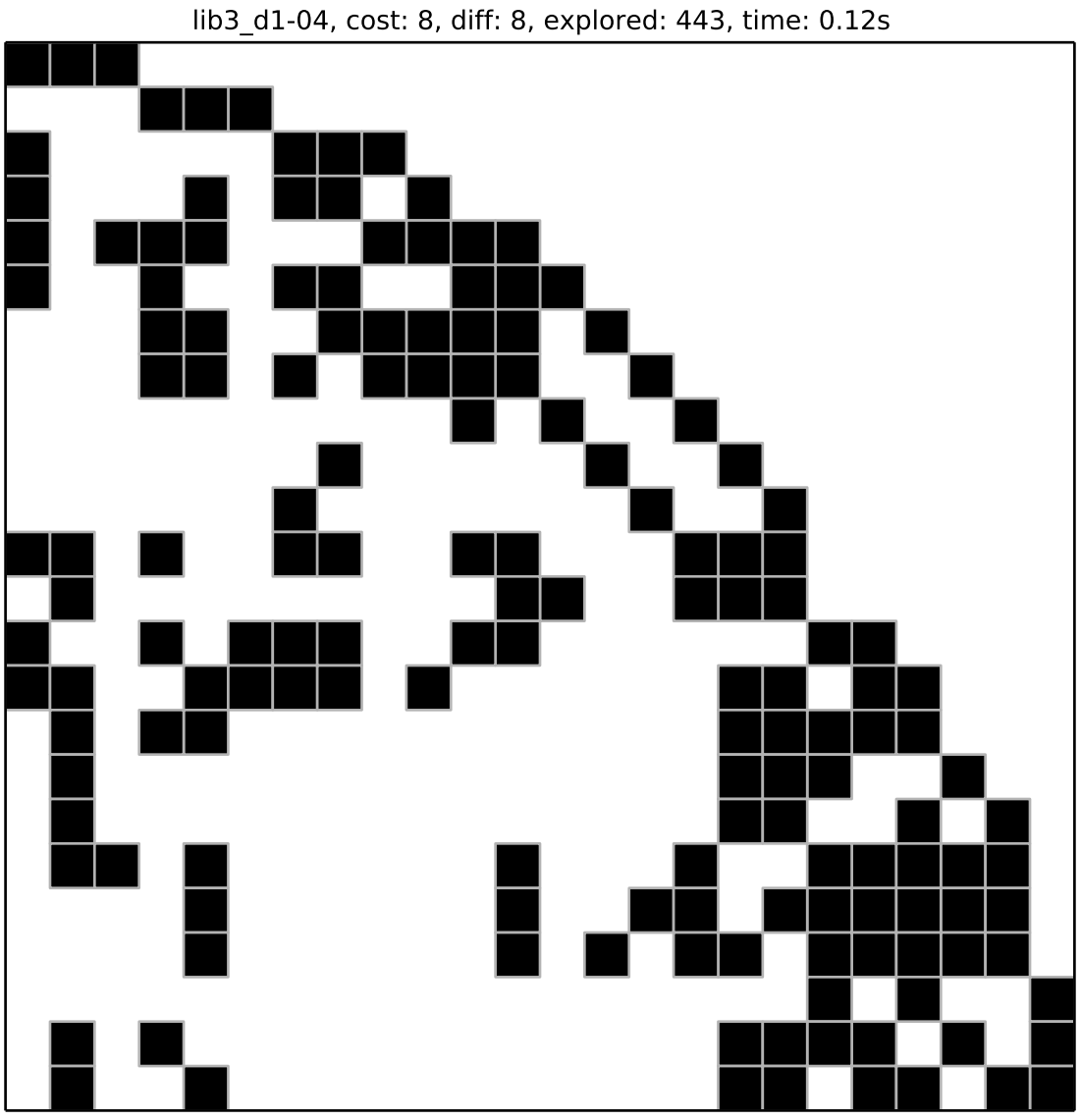

lib3_d1-02, cost: 8, diff: 8, explored: 556, time: 0.15s

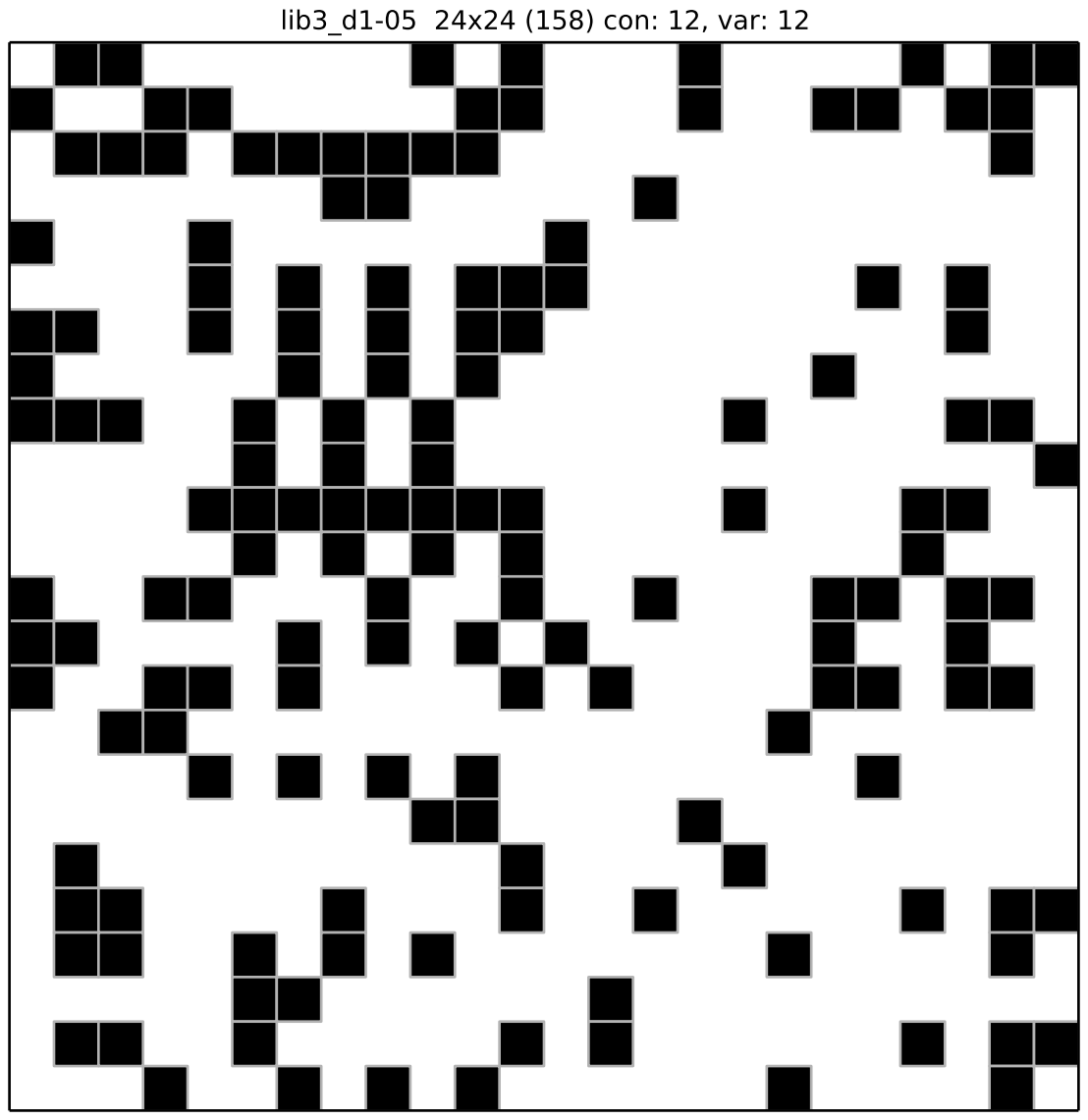

lib3_d1-03 24x24 (158) con: 12, var: 12

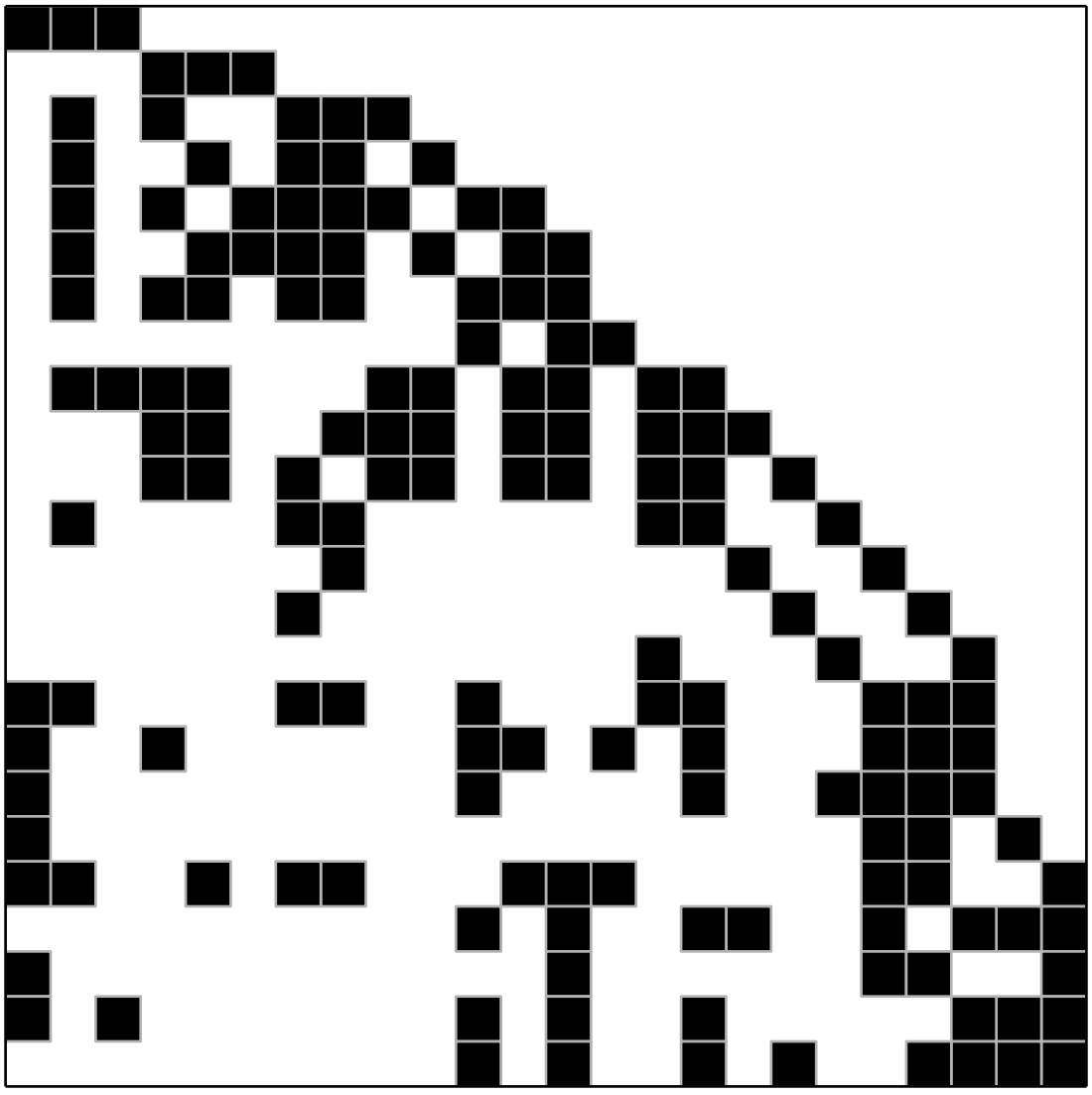

lib3_d1-03, cost: 8, diff: 8, explored: 441, time: 0.12s

lib3_d1-04 24x24 (158) con: 12, var: 12

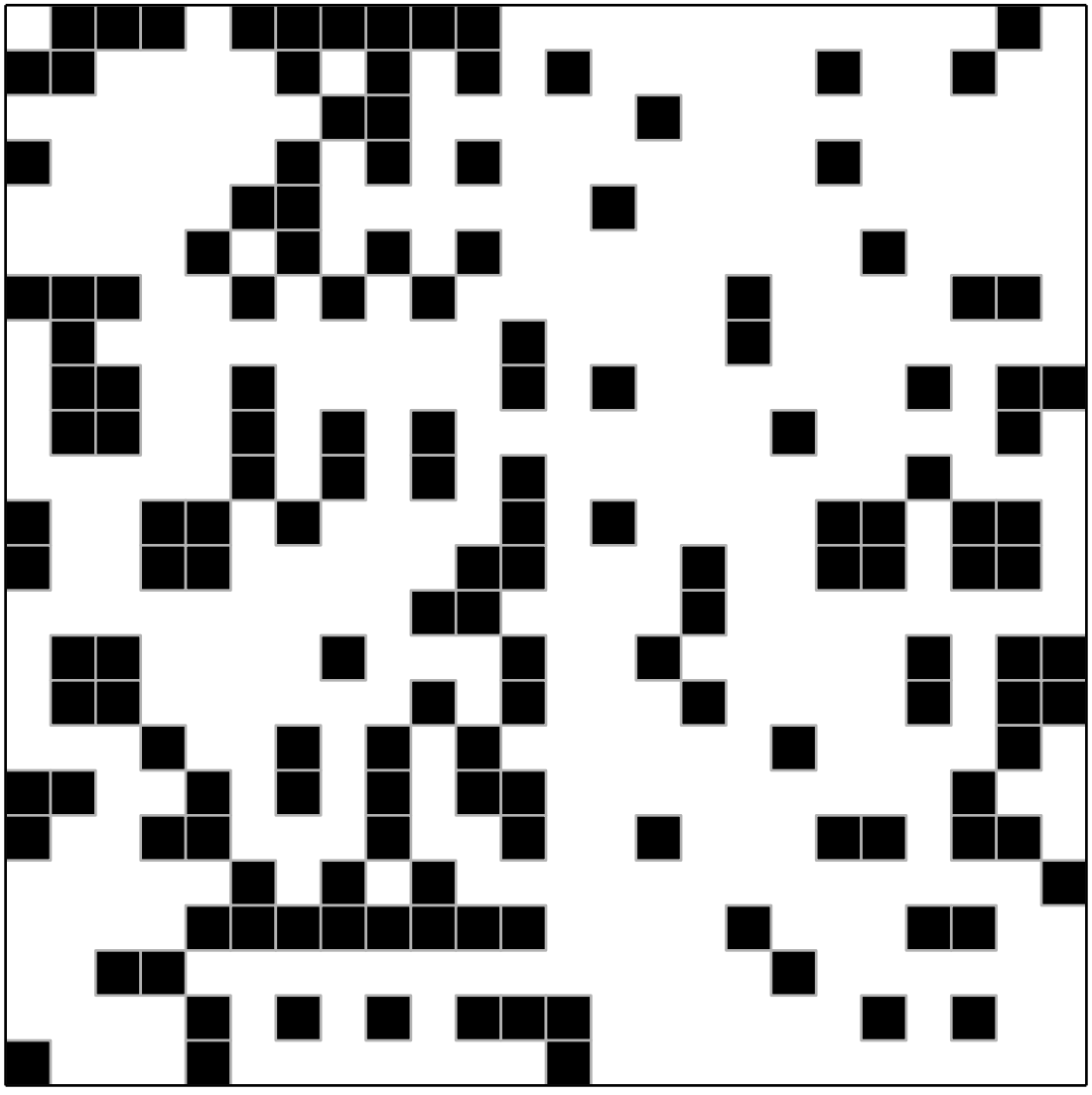


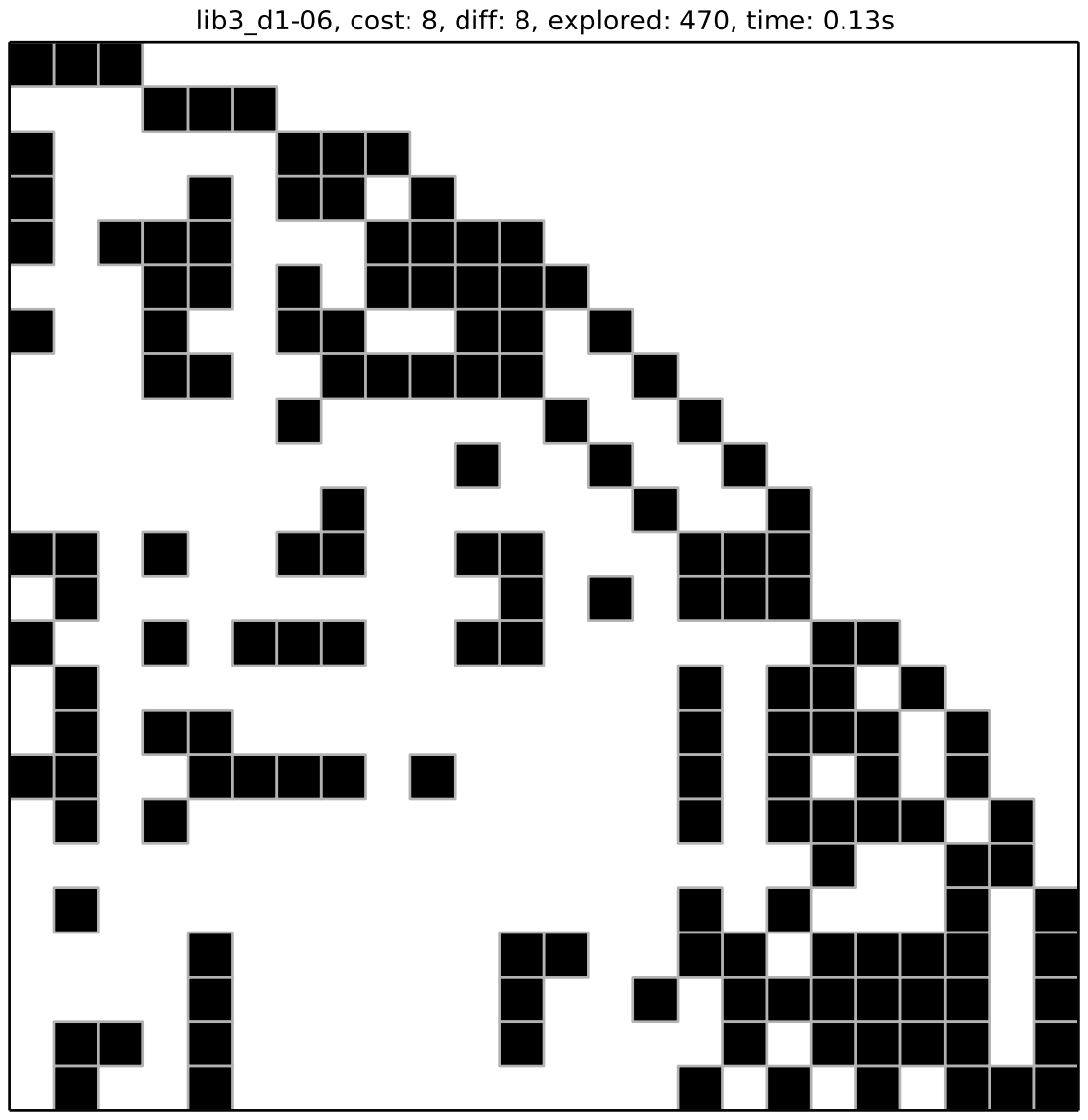

lib3_d1-04, cost: 8, diff: 8, explored: 443, time: 0.12s

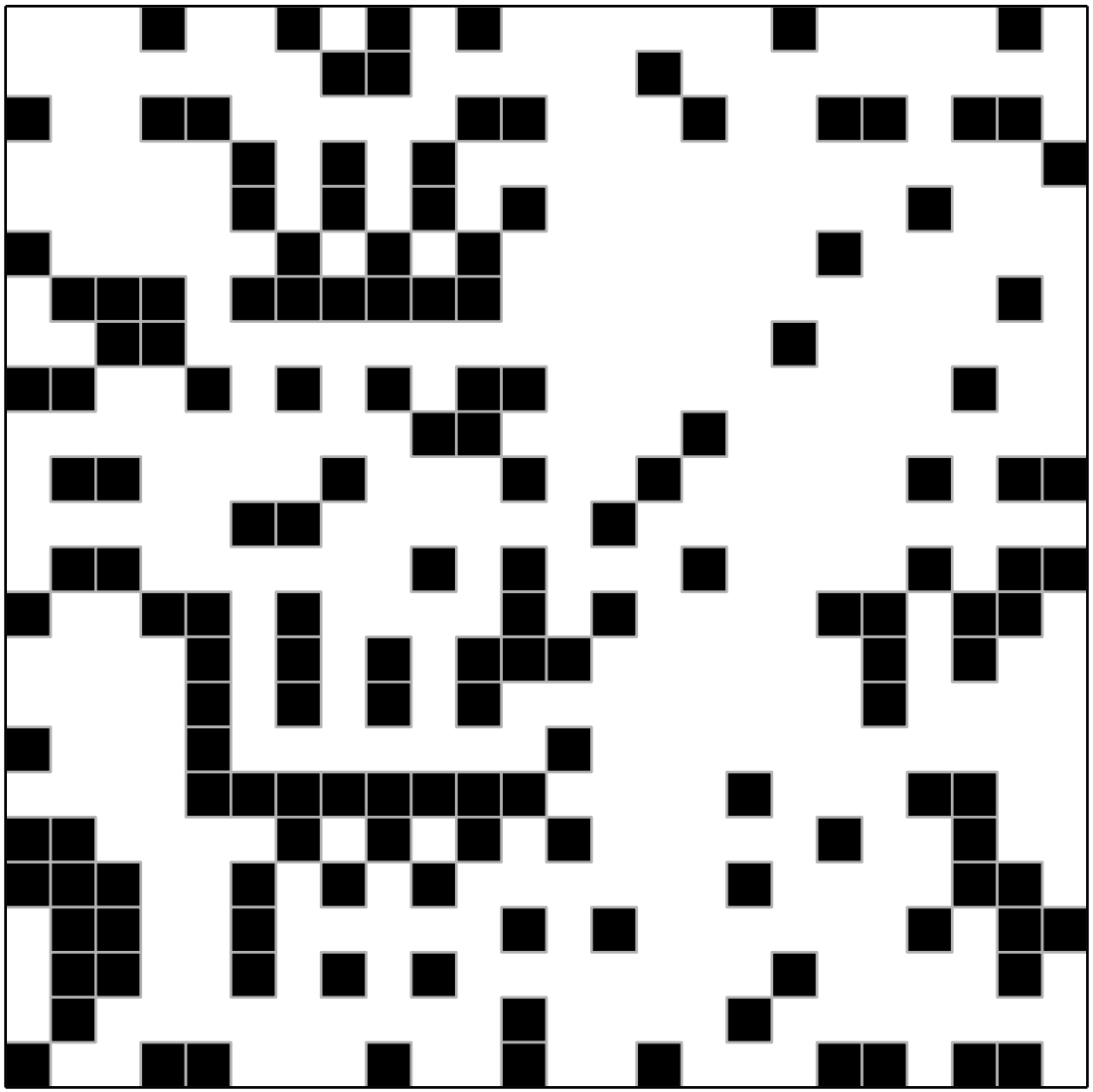

lib3_d1-05 24x24 (158) con: 12, var: 12

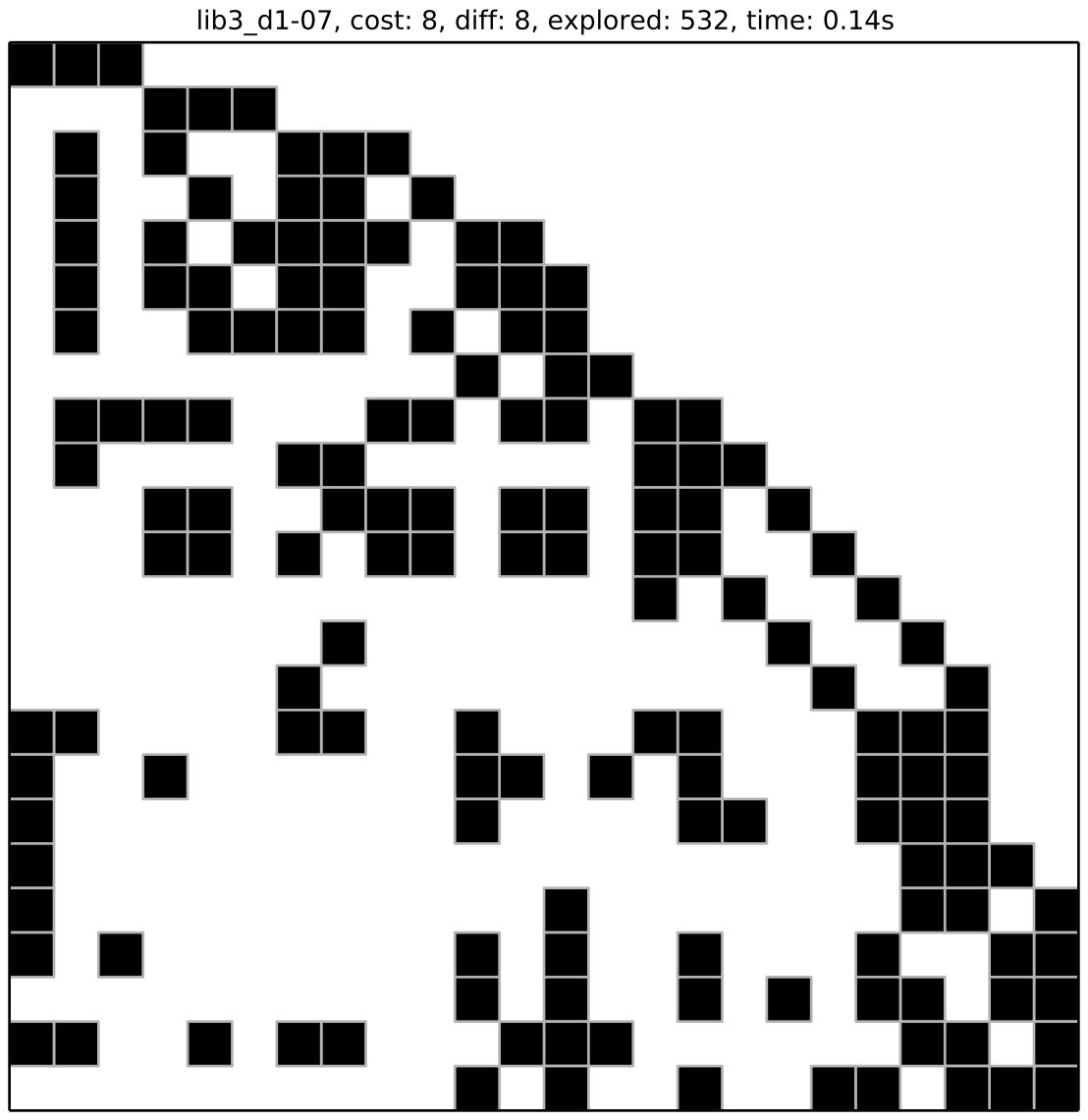

lib3_d1-05, cost: 8, diff: 8, explored: 457, time: 0.12s

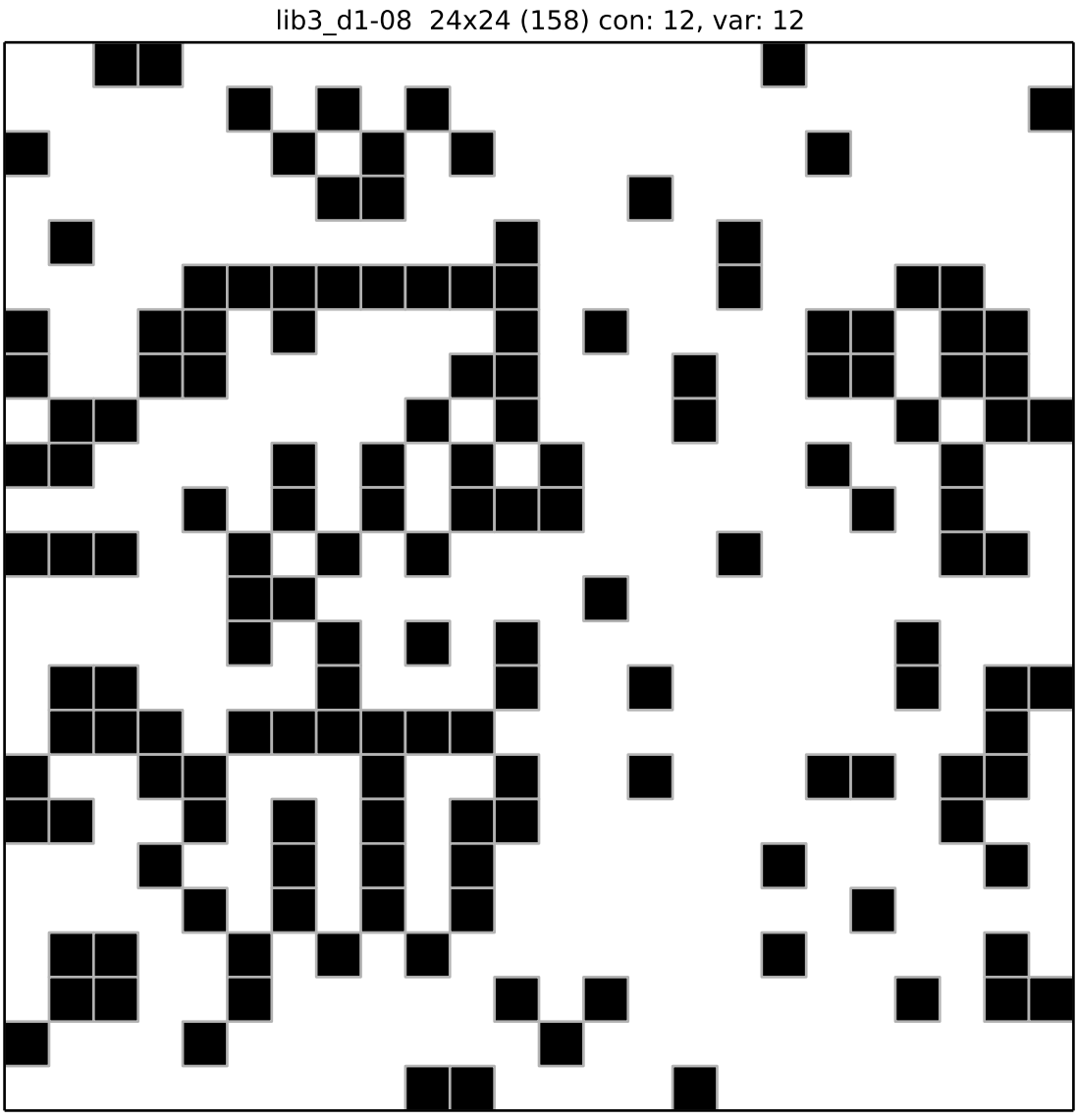
lib3_d1-06 24x24 (158) con: 12, var: 12



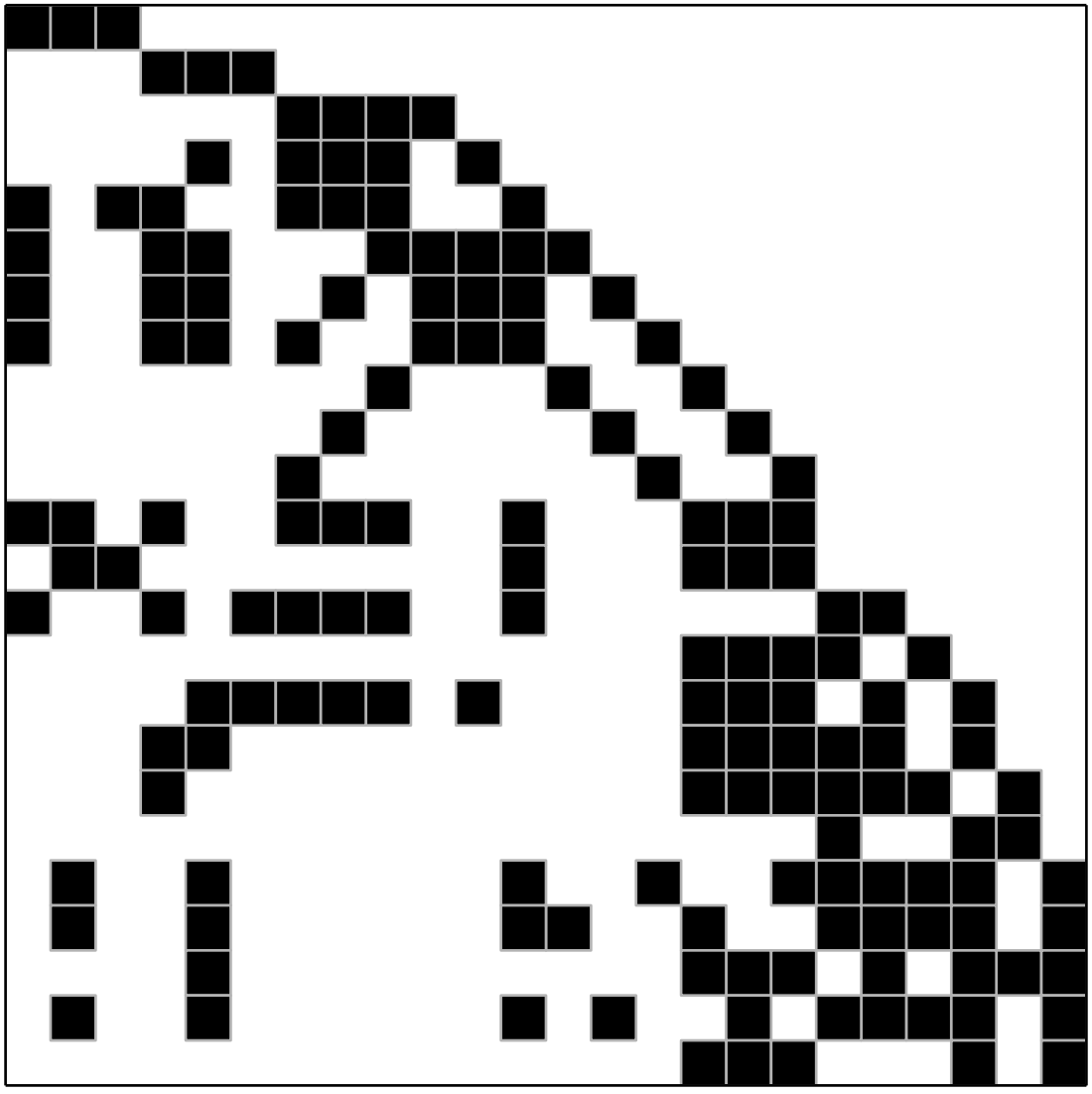

lib3_d1-06, cost: 8, diff: 8, explored: 470, time: 0.13s


lib3_d1-07 24x24 (158) con: 12, var: 12

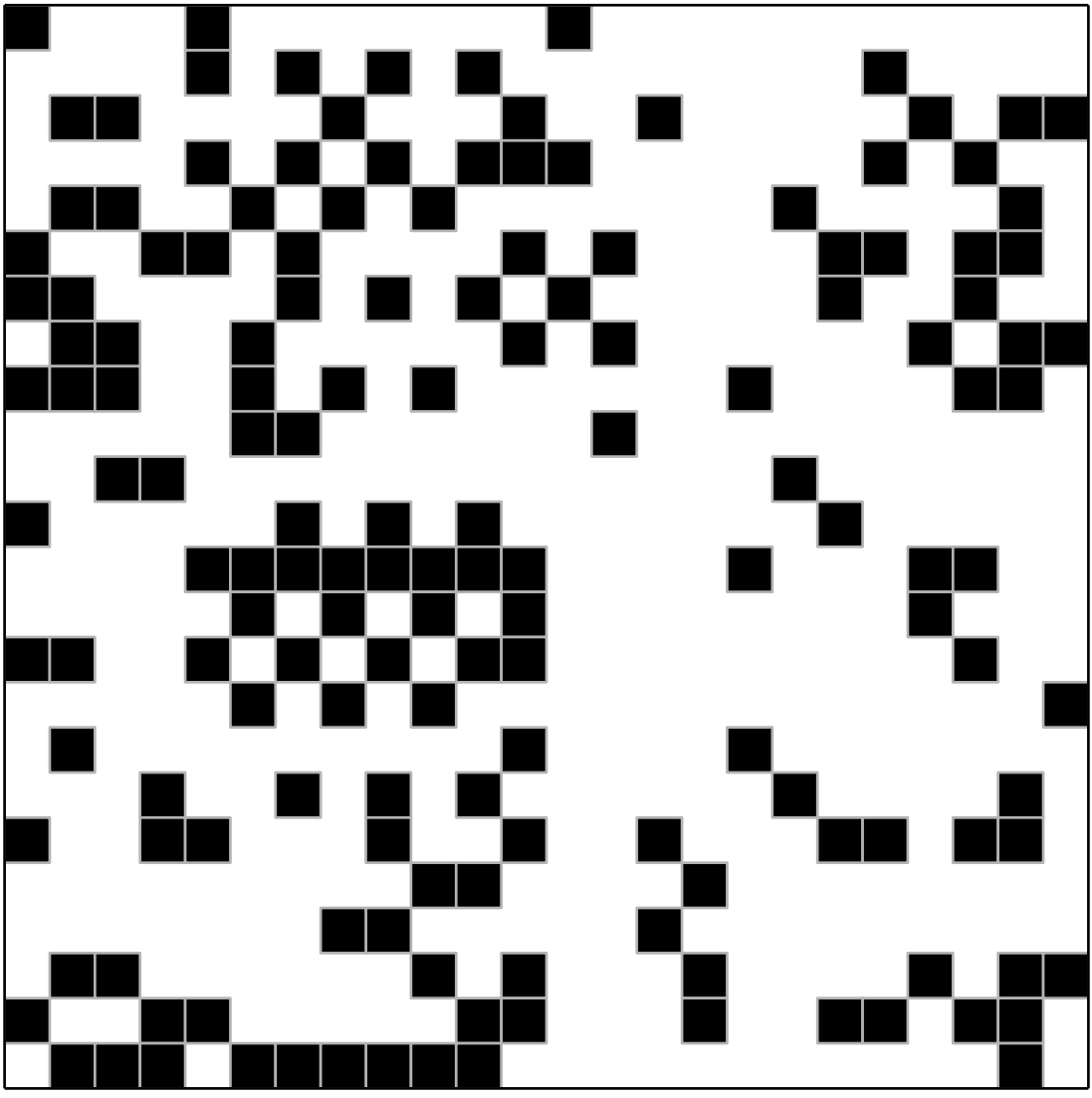

lib3_d1-07, cost: 8, diff: 8, explored: 532, time: 0.14s

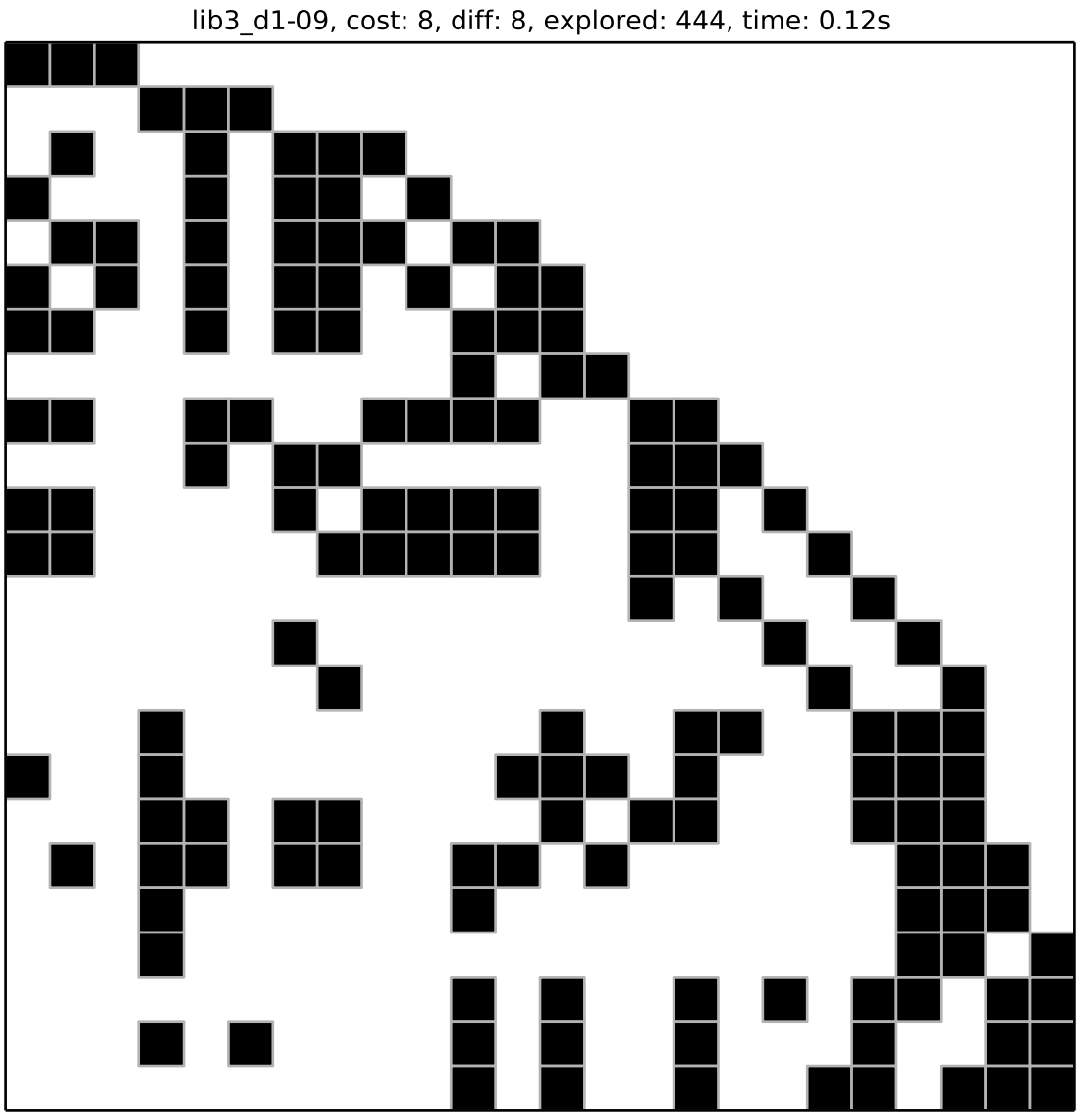

lib3_d1-08 24x24 (158) con: 12, var: 12

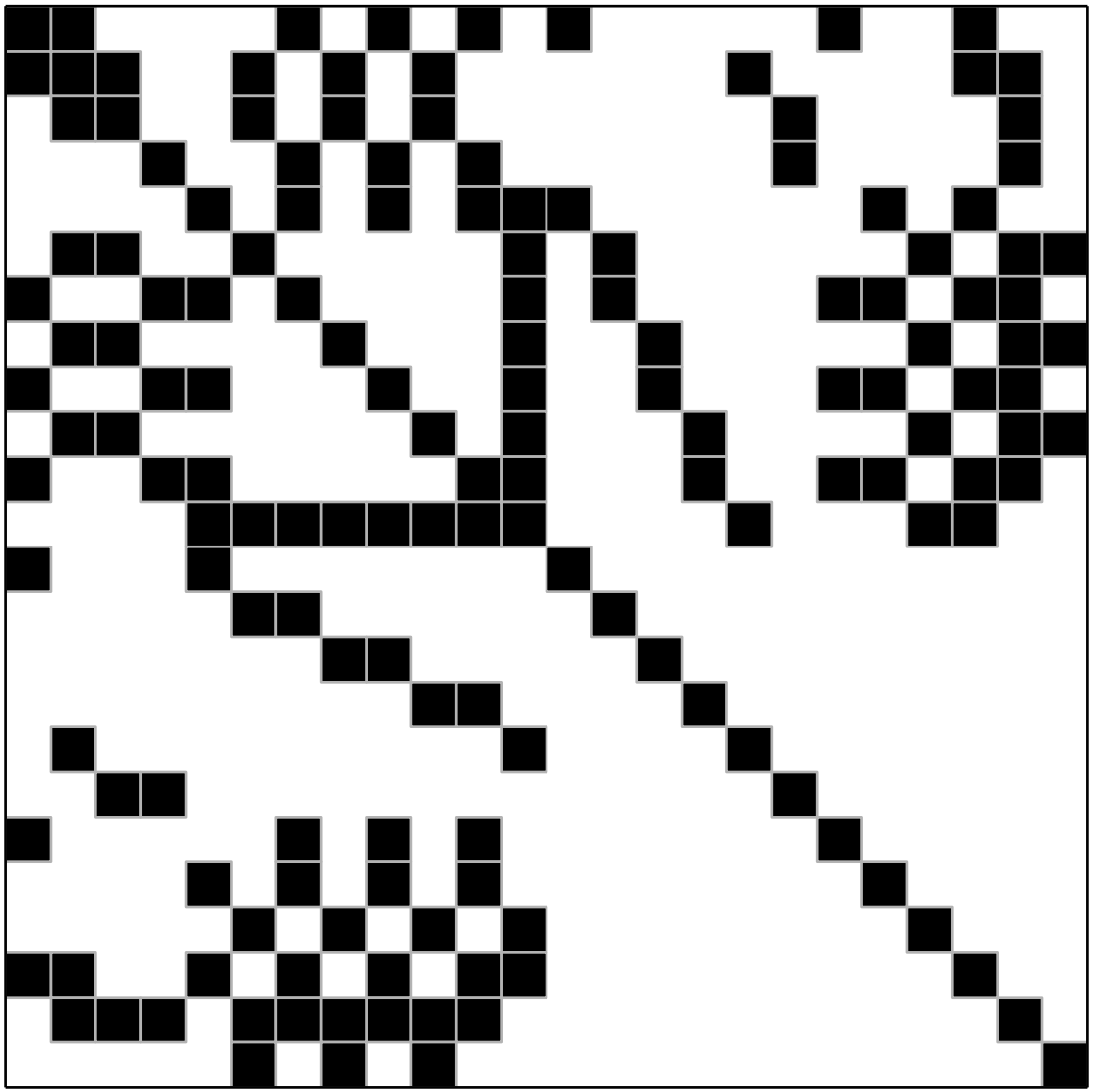
lib3_d1-08, cost: 8, diff: 8, explored: 471, time: 0.12s

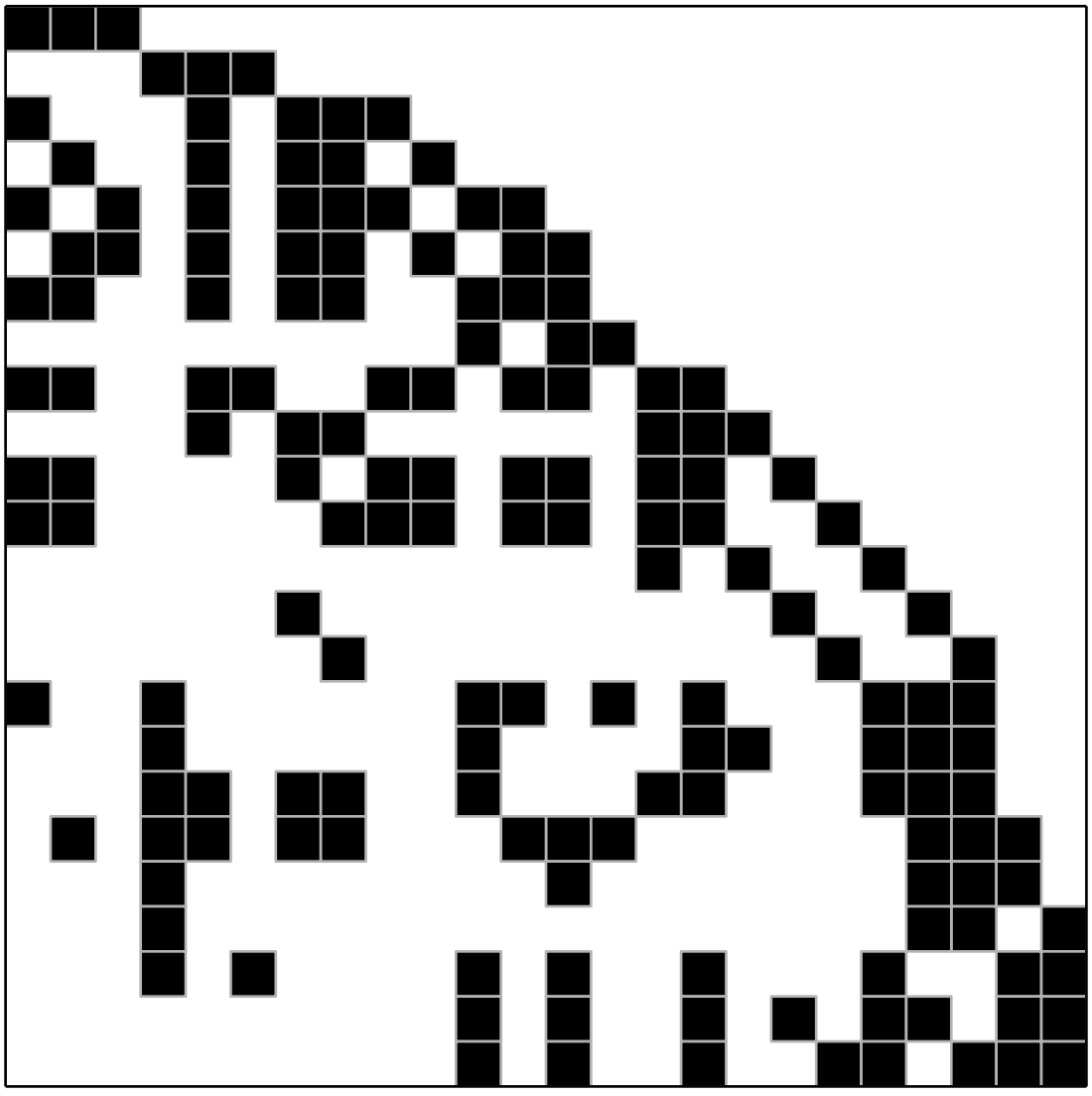


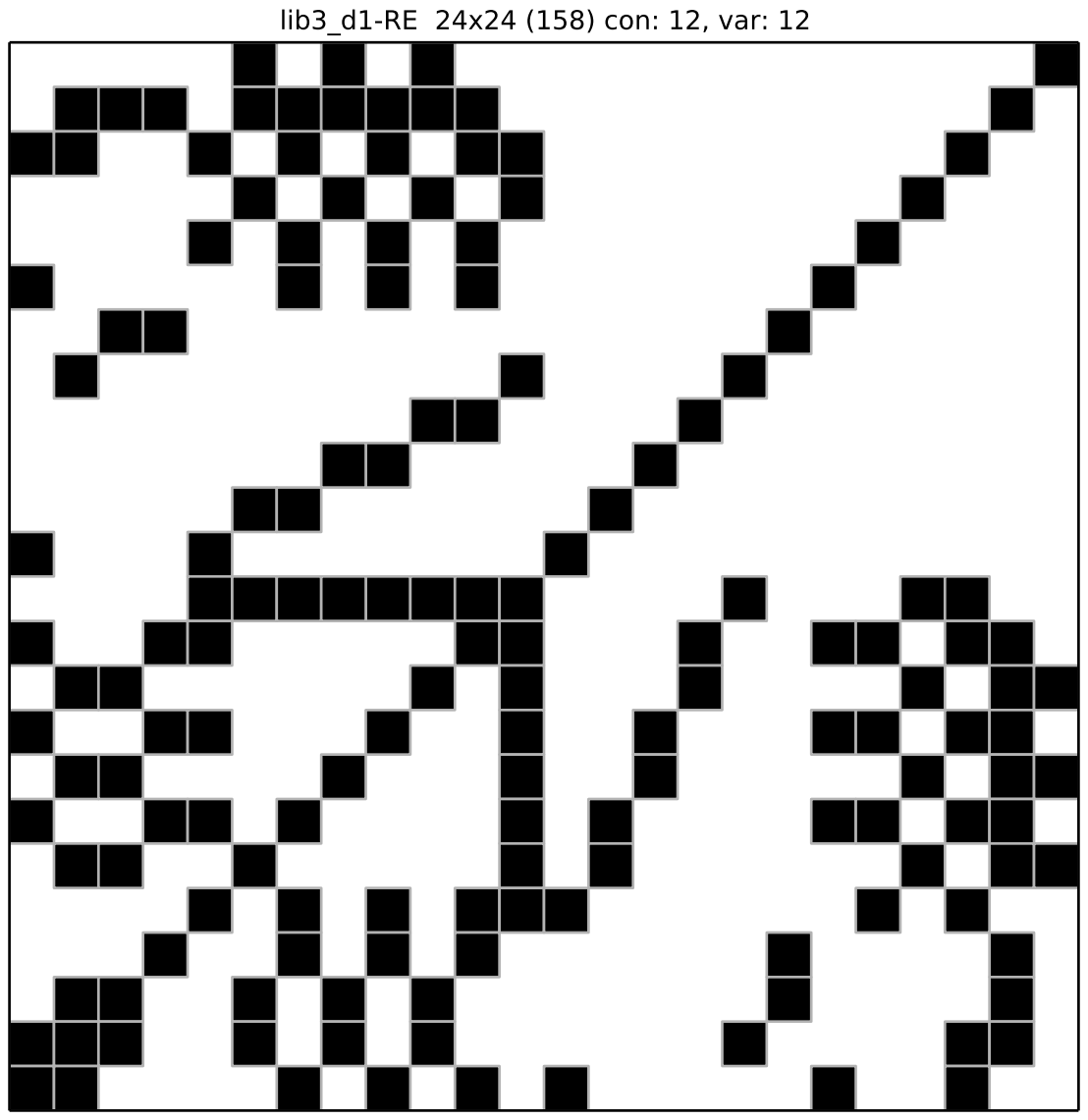
lib3_d1-09 24x24 (158) con: 12, var: 12

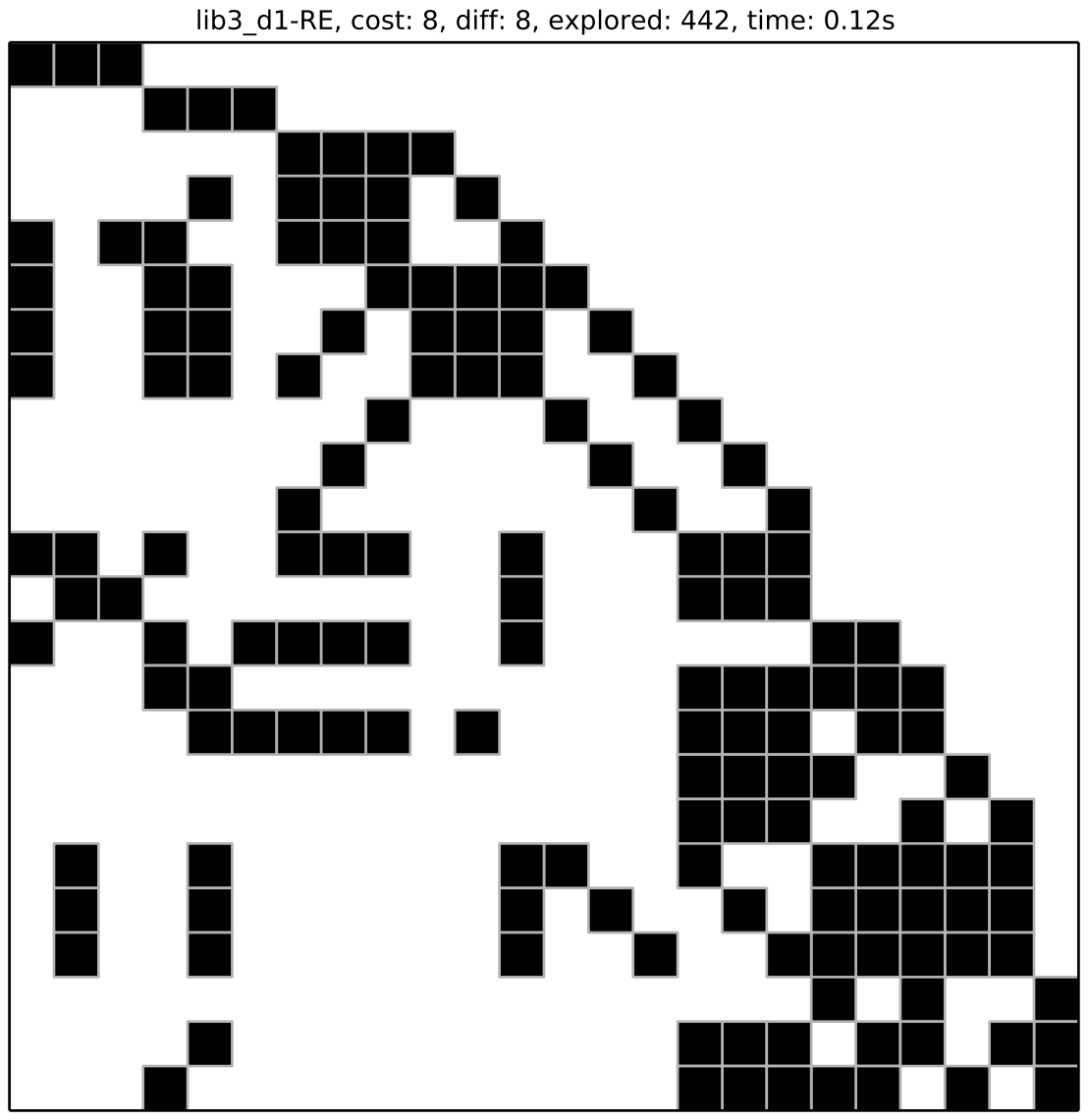



lib3_d1-09, cost: 8, diff: 8, explored: 444, time: 0.12s

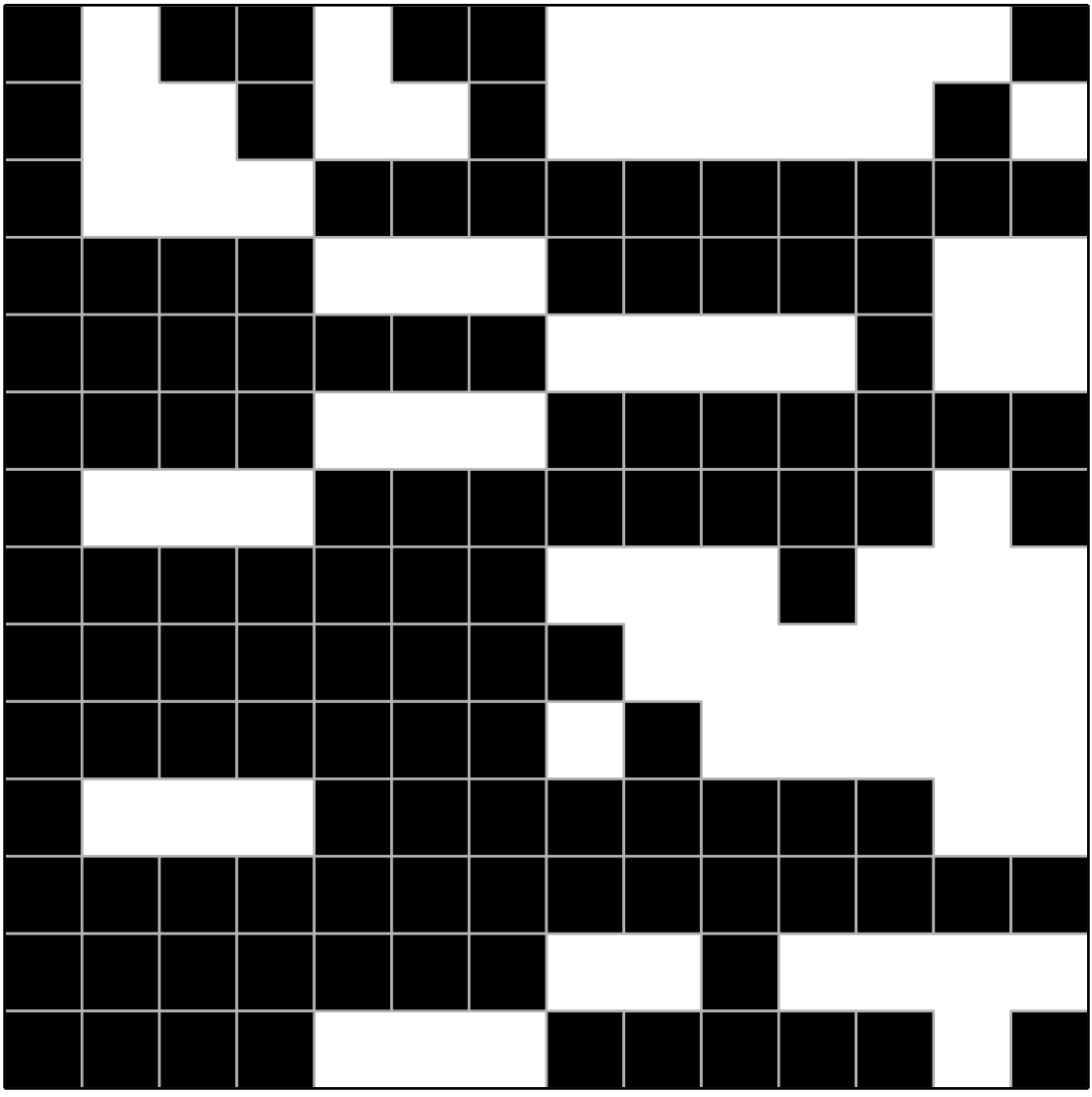

lib3_d1-IN 24x24 (158) con: 12, var: 12


lib3_d1-IN, cost: 8, diff: 8, explored: 443, time: 0.12s

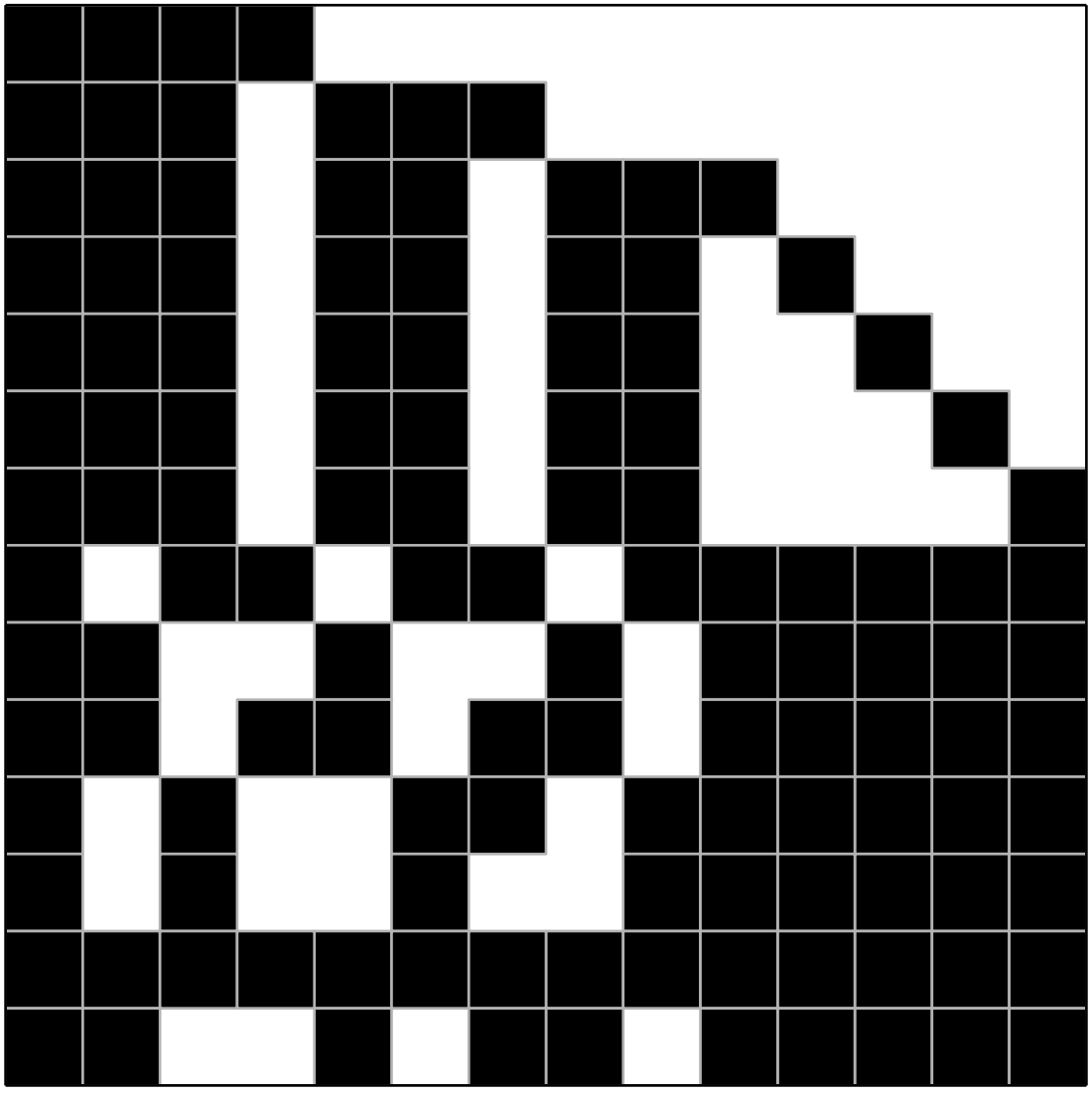

lib3_d1-RE 24x24 (158) con: 12, var: 12


lib3_d1-RE, cost: 8, diff: 8, explored: 442, time: 0.12s

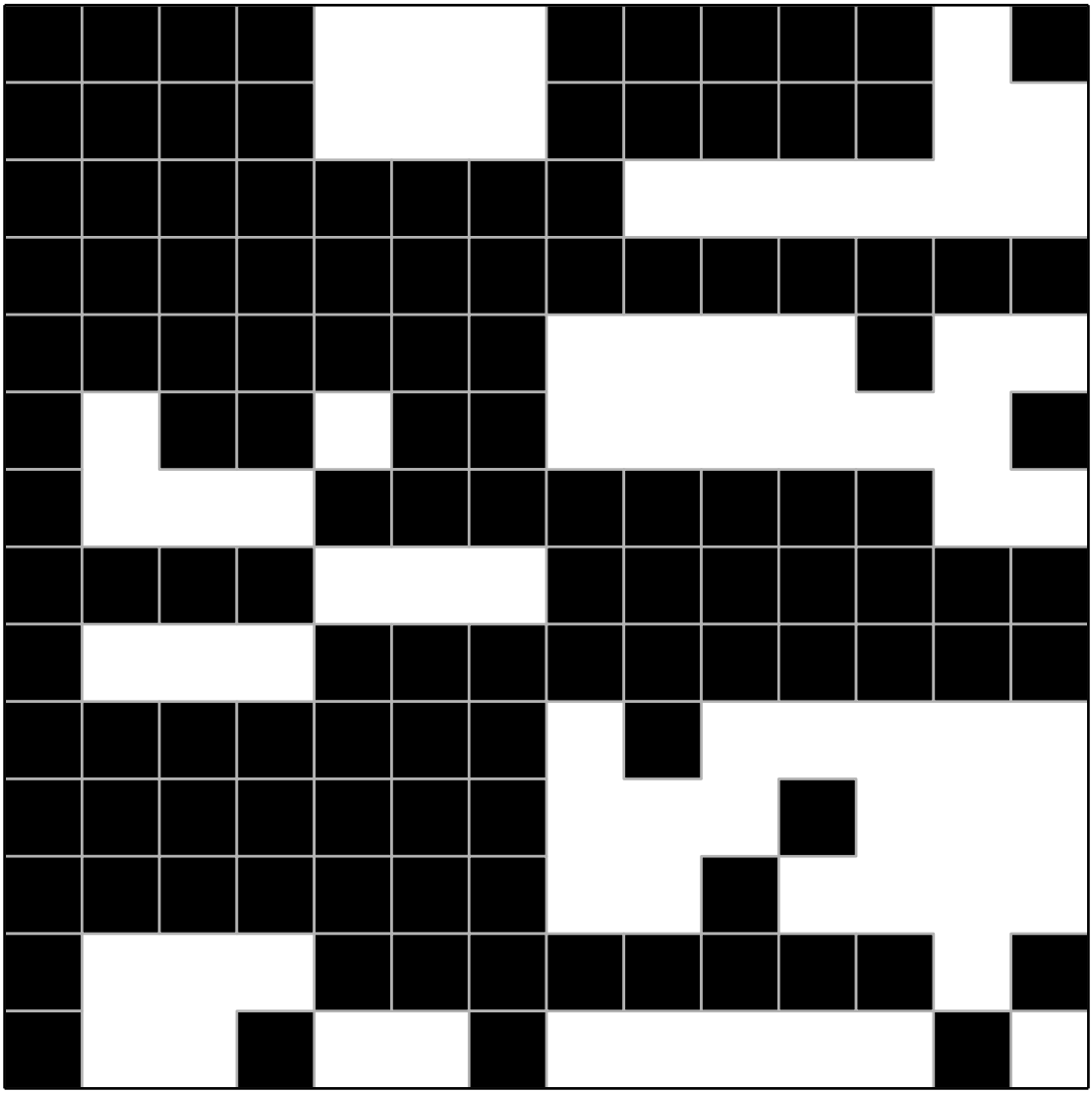
lib3_des18_3-00 14x14 (124) con: 7, var: 7



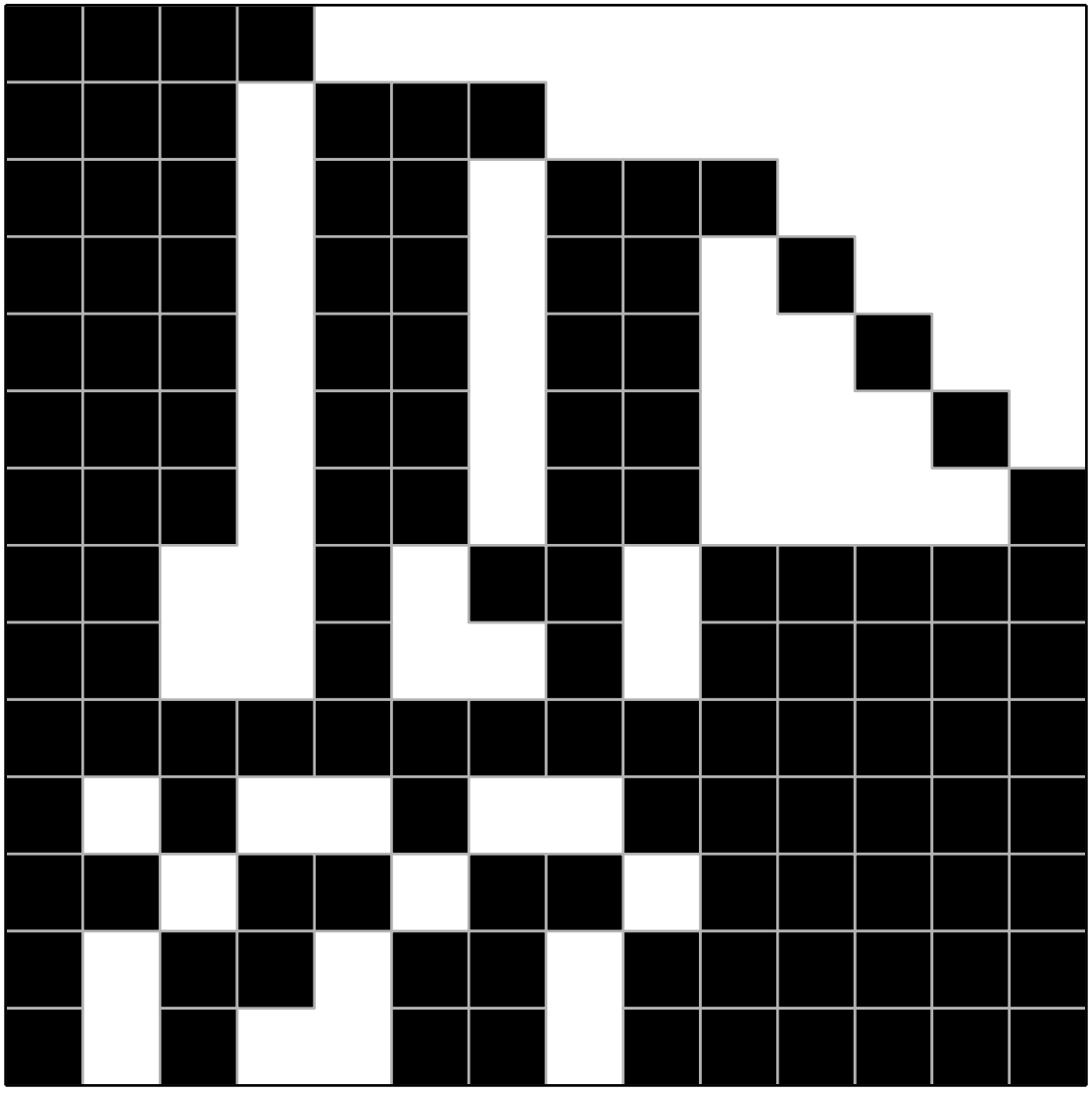
lib3_des18_3-00, cost: 7, diff: 7, explored: 3, time: 0.00s



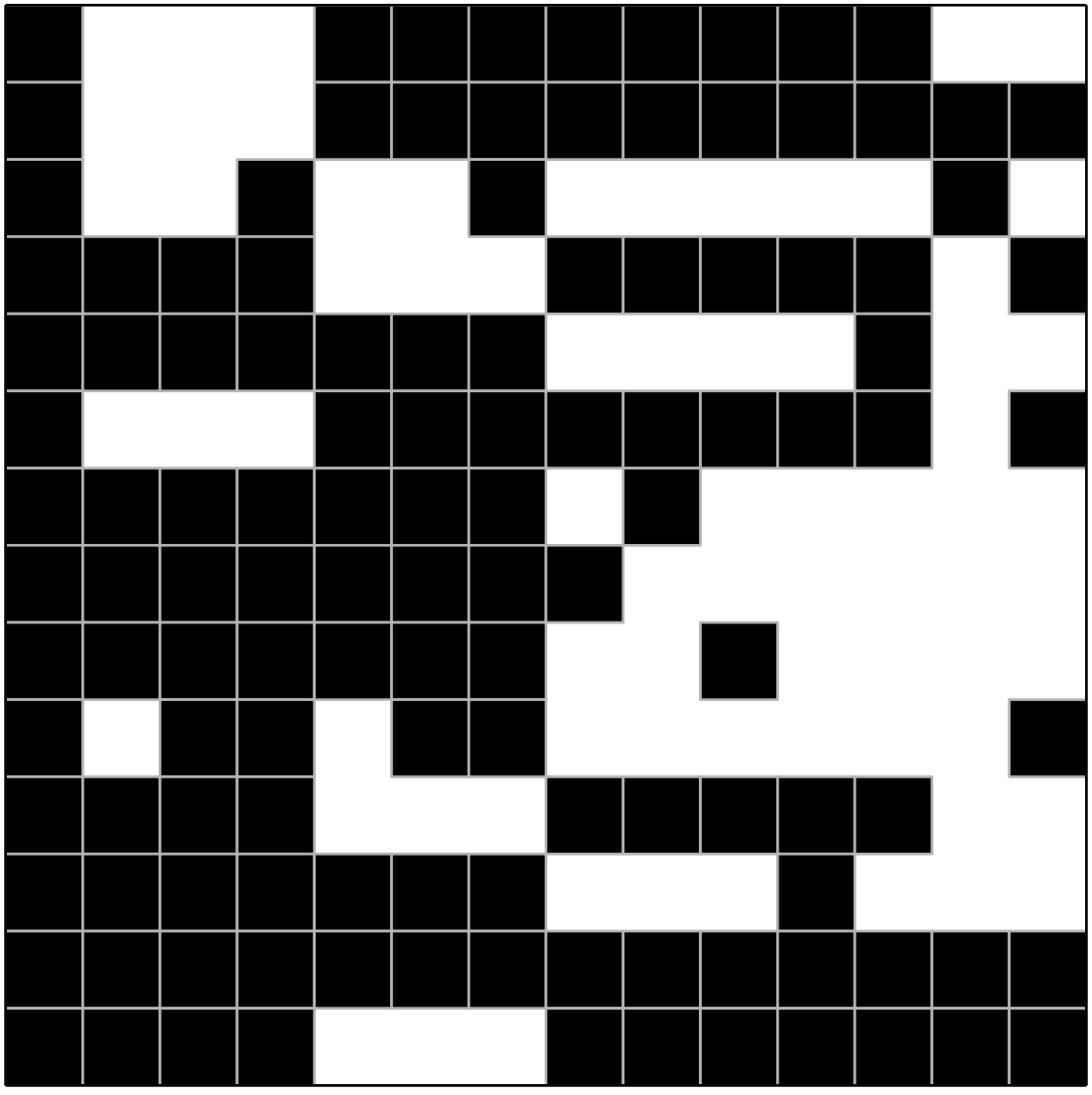
lib3_des18_3-01 14x14 (124) con: 7, var: 7



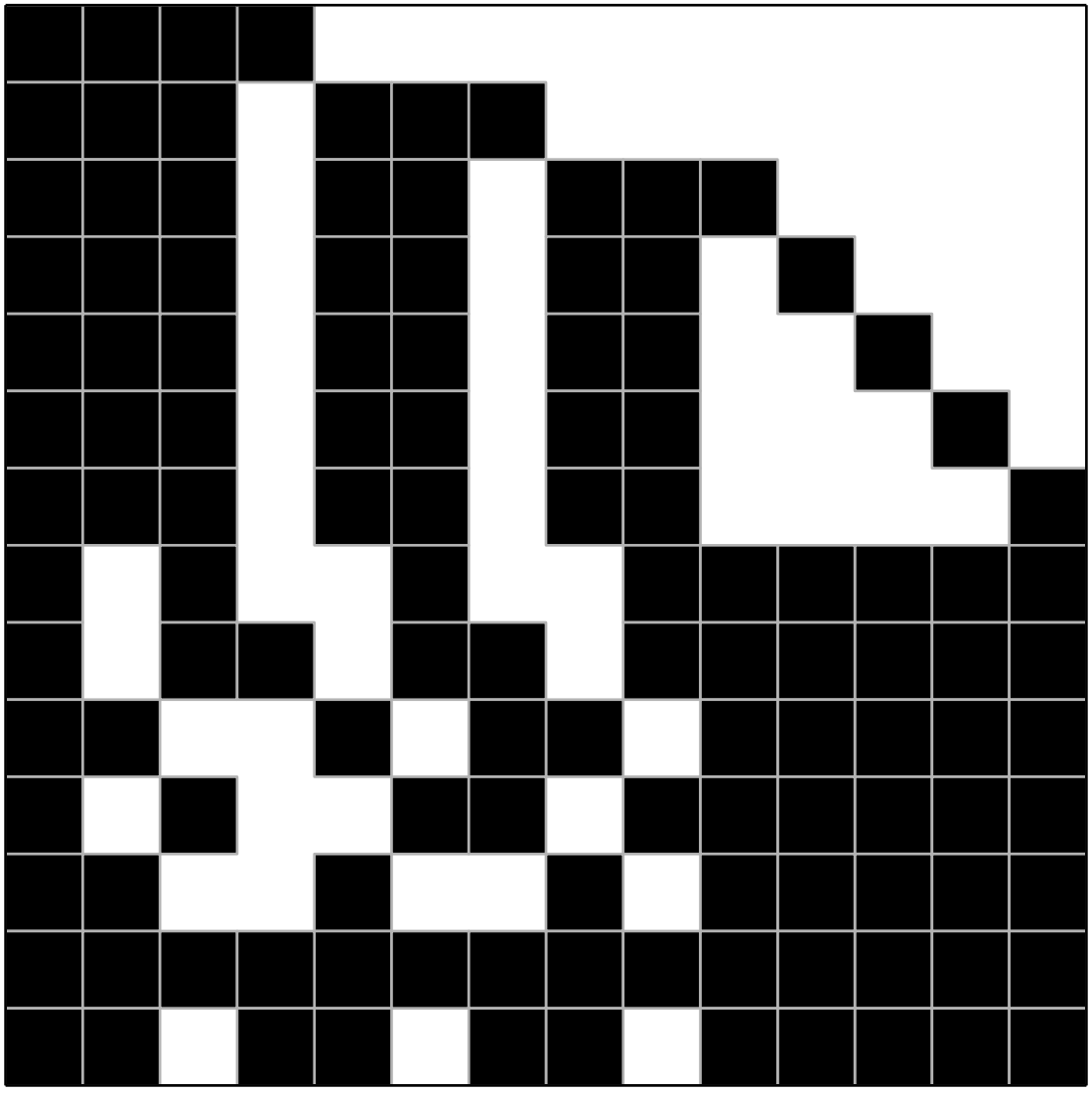
lib3_des18_3-01, cost: 7, diff: 7, explored: 3, time: 0.00s



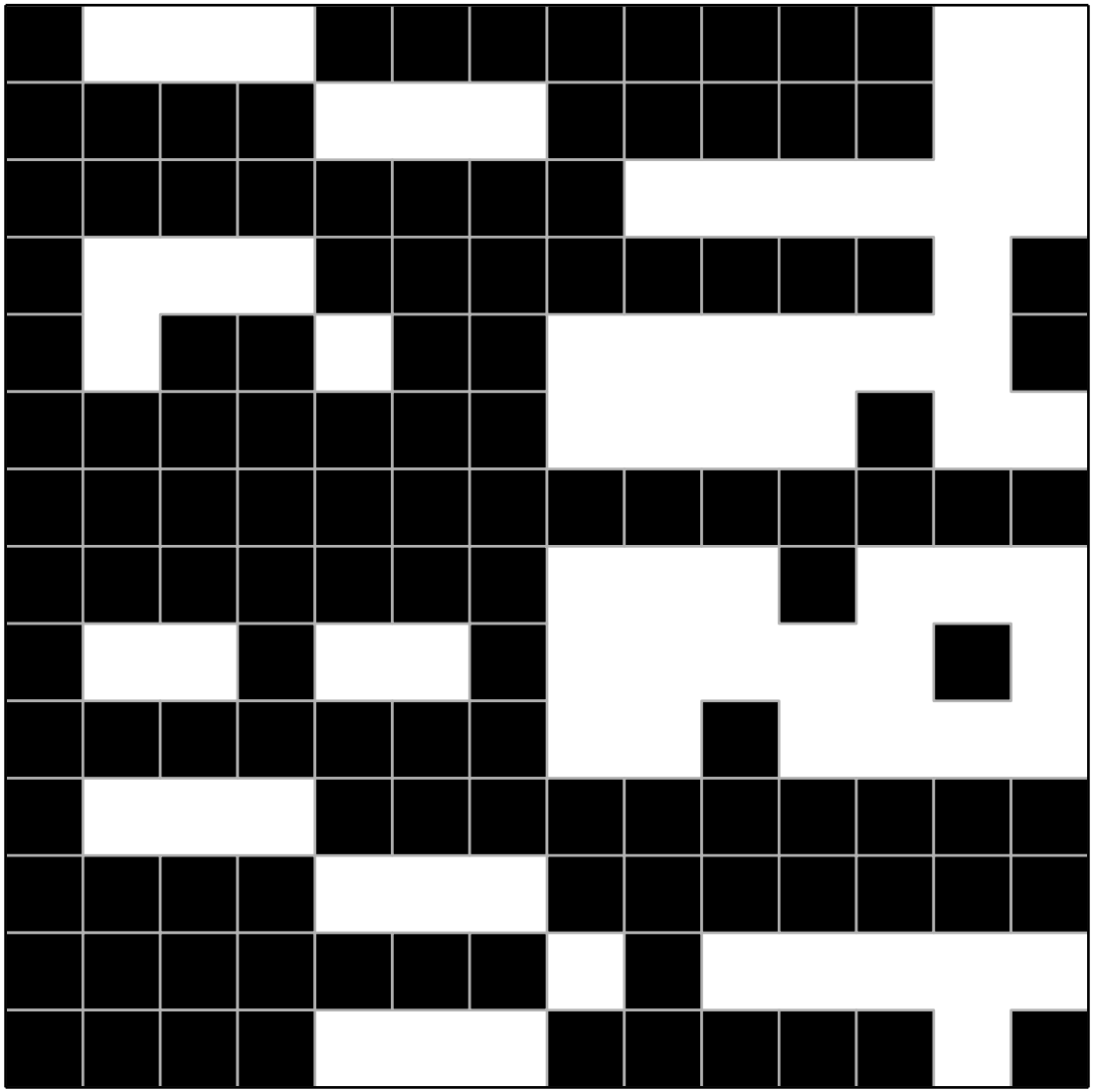
lib3_des18_3-02 14x14 (124) con: 7, var: 7



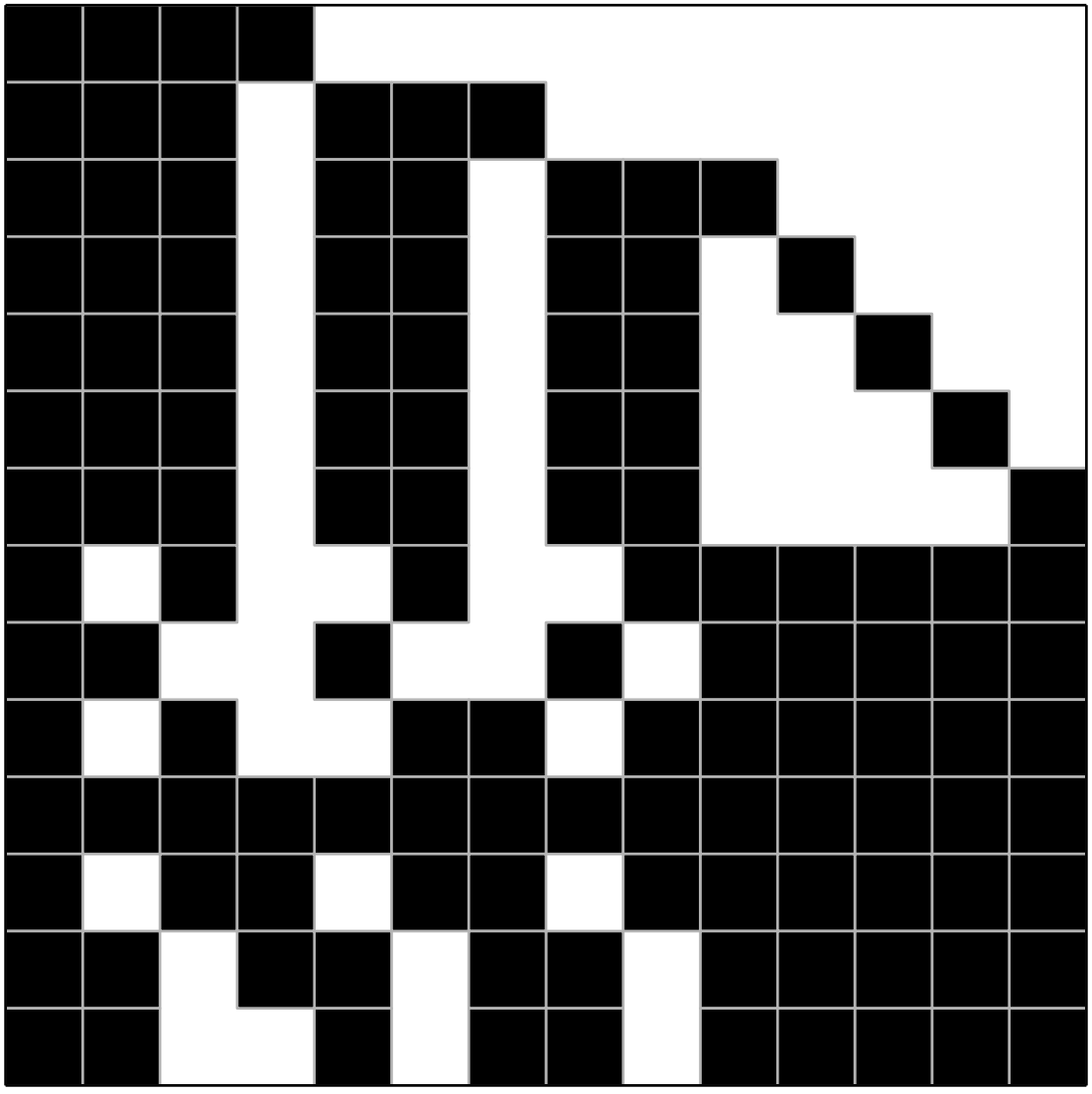
lib3_des18_3-02, cost: 7, diff: 7, explored: 3, time: 0.00s



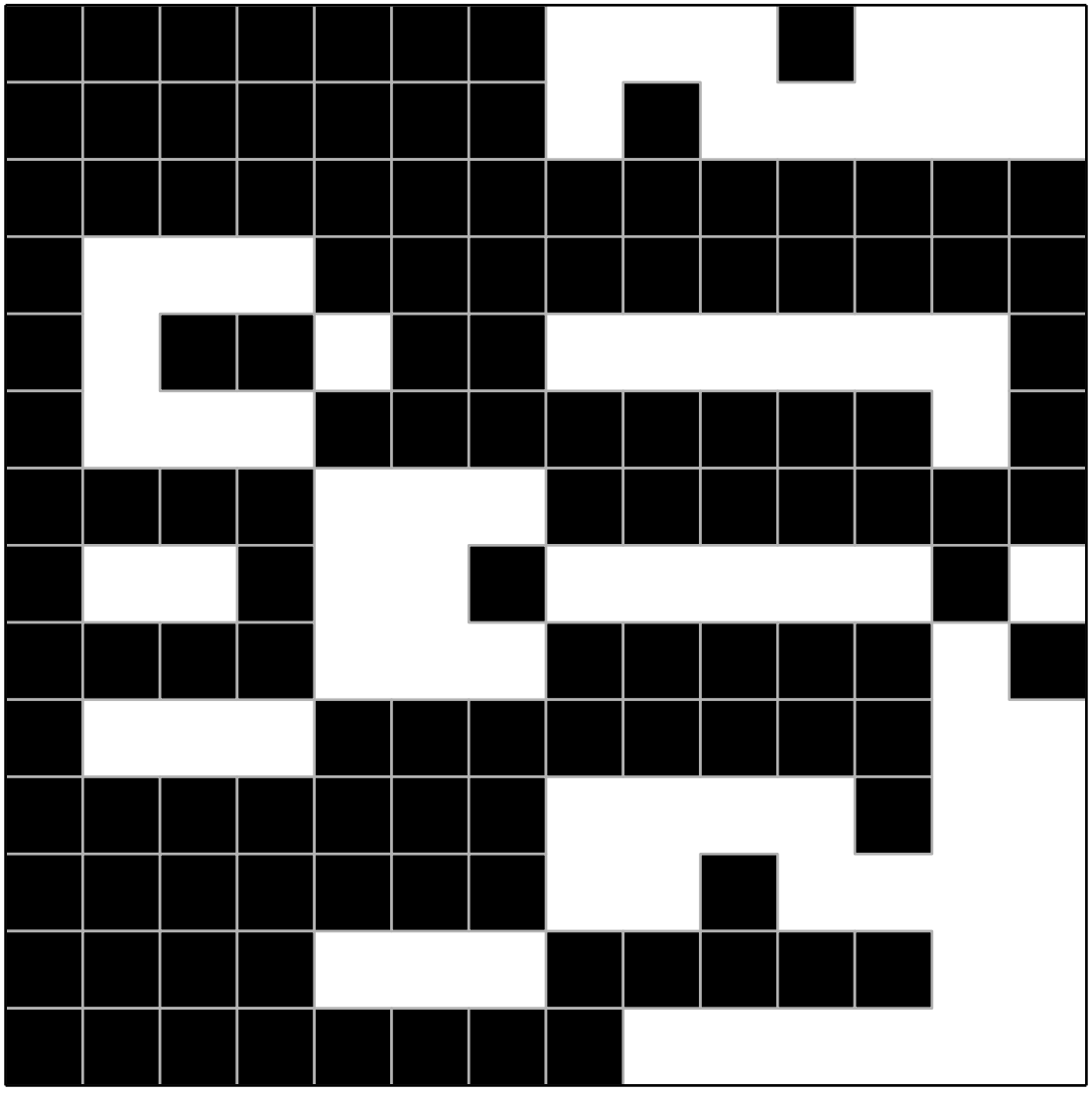
lib3_des18_3-03 14x14 (124) con: 7, var: 7



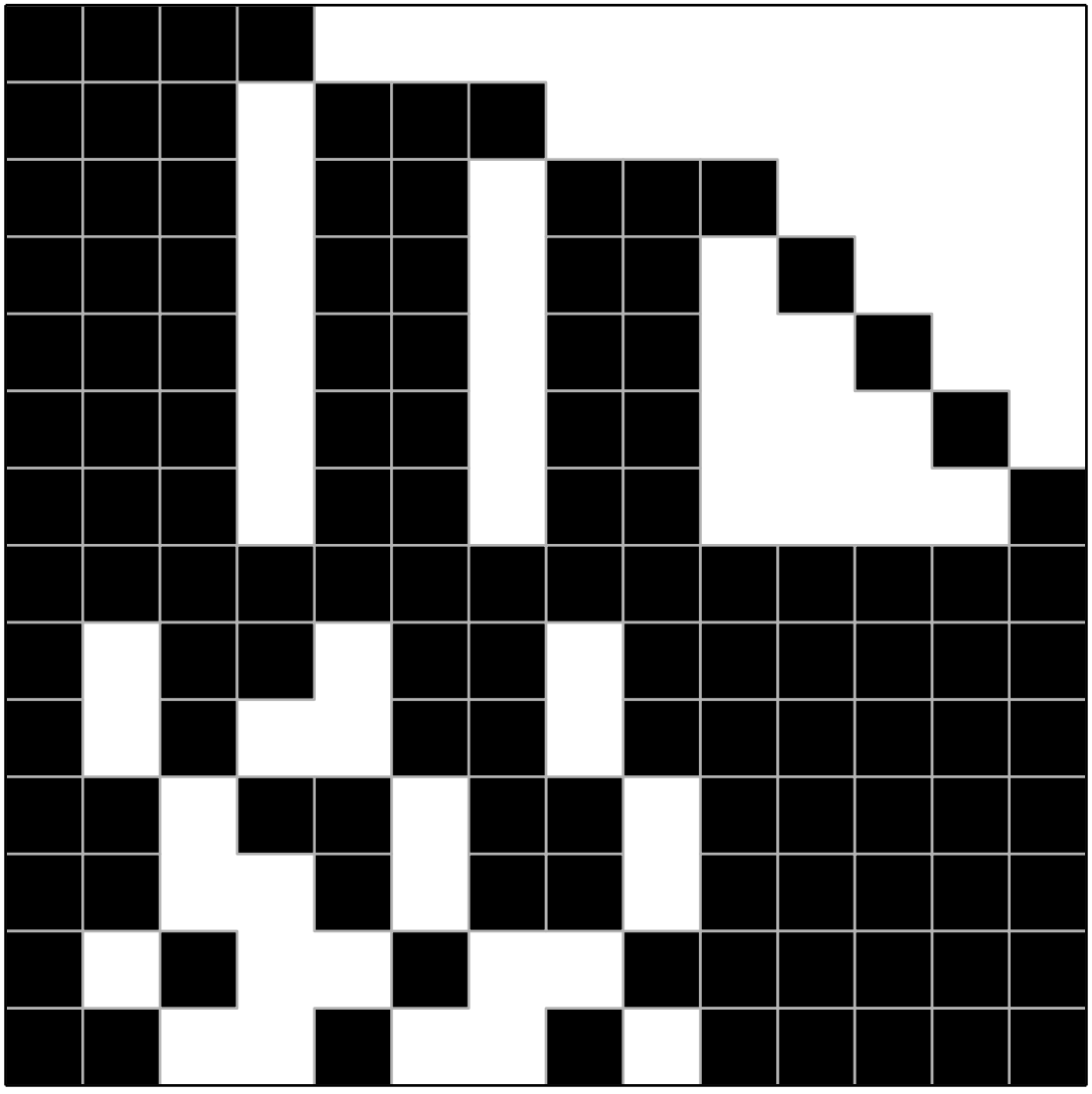
lib3_des18_3-03, cost: 7, diff: 7, explored: 3, time: 0.00s



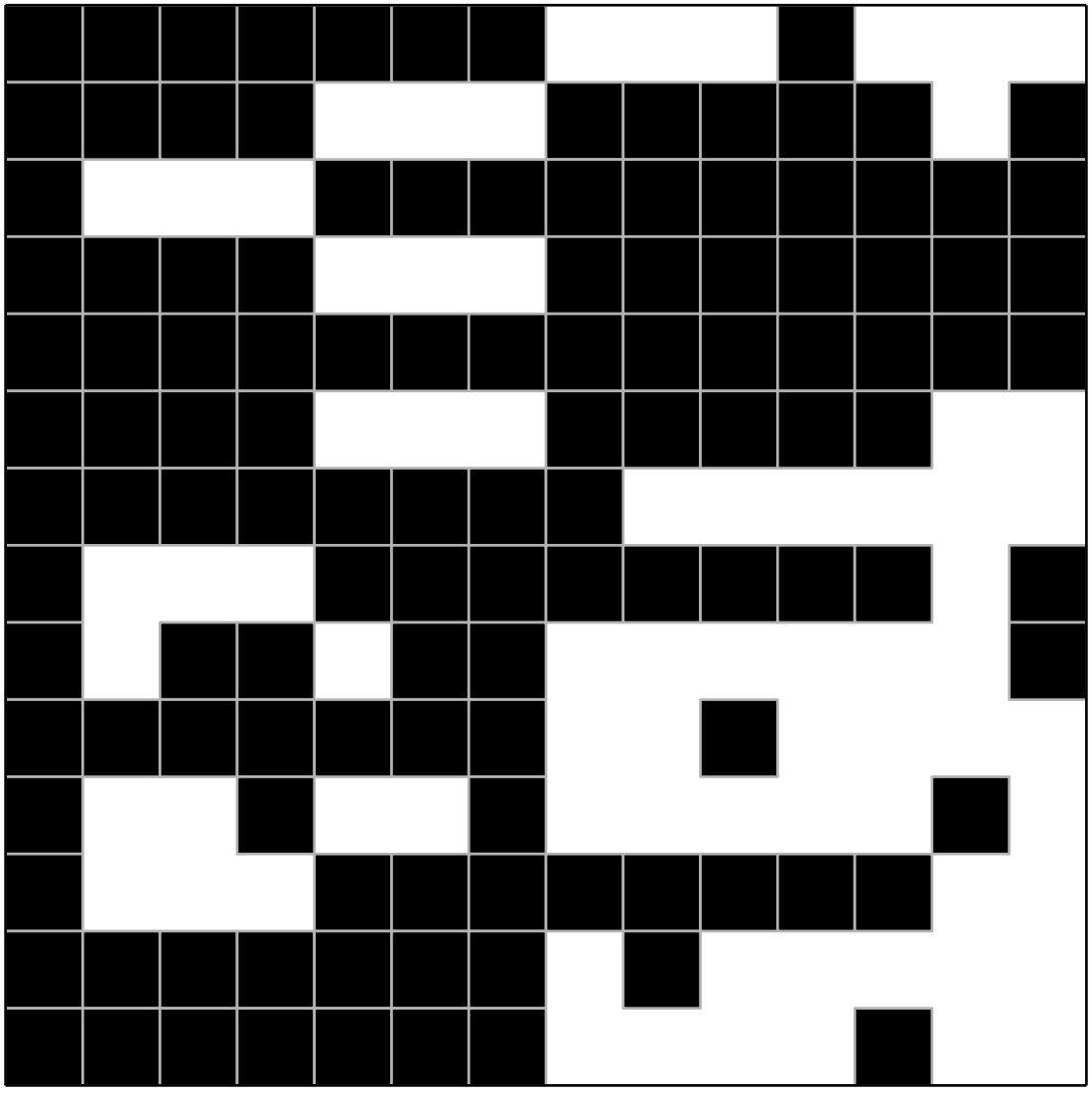
lib3_des18_3-04 14x14 (124) con: 7, var: 7



lib3_des18_3-04, cost: 7, diff: 7, explored: 3, time: 0.00s



lib3_des18_3-05 14x14 (124) con: 7, var: 7



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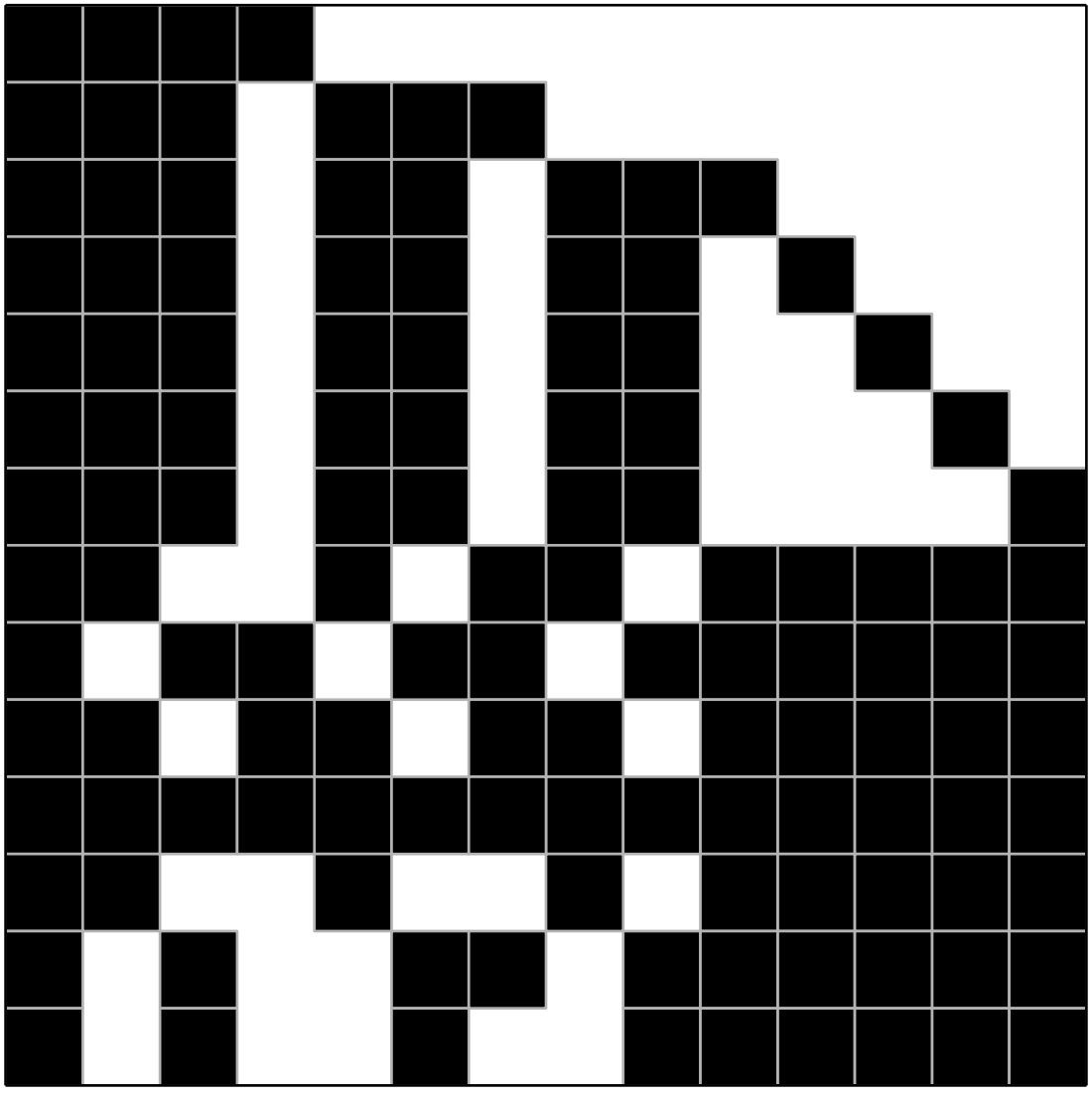
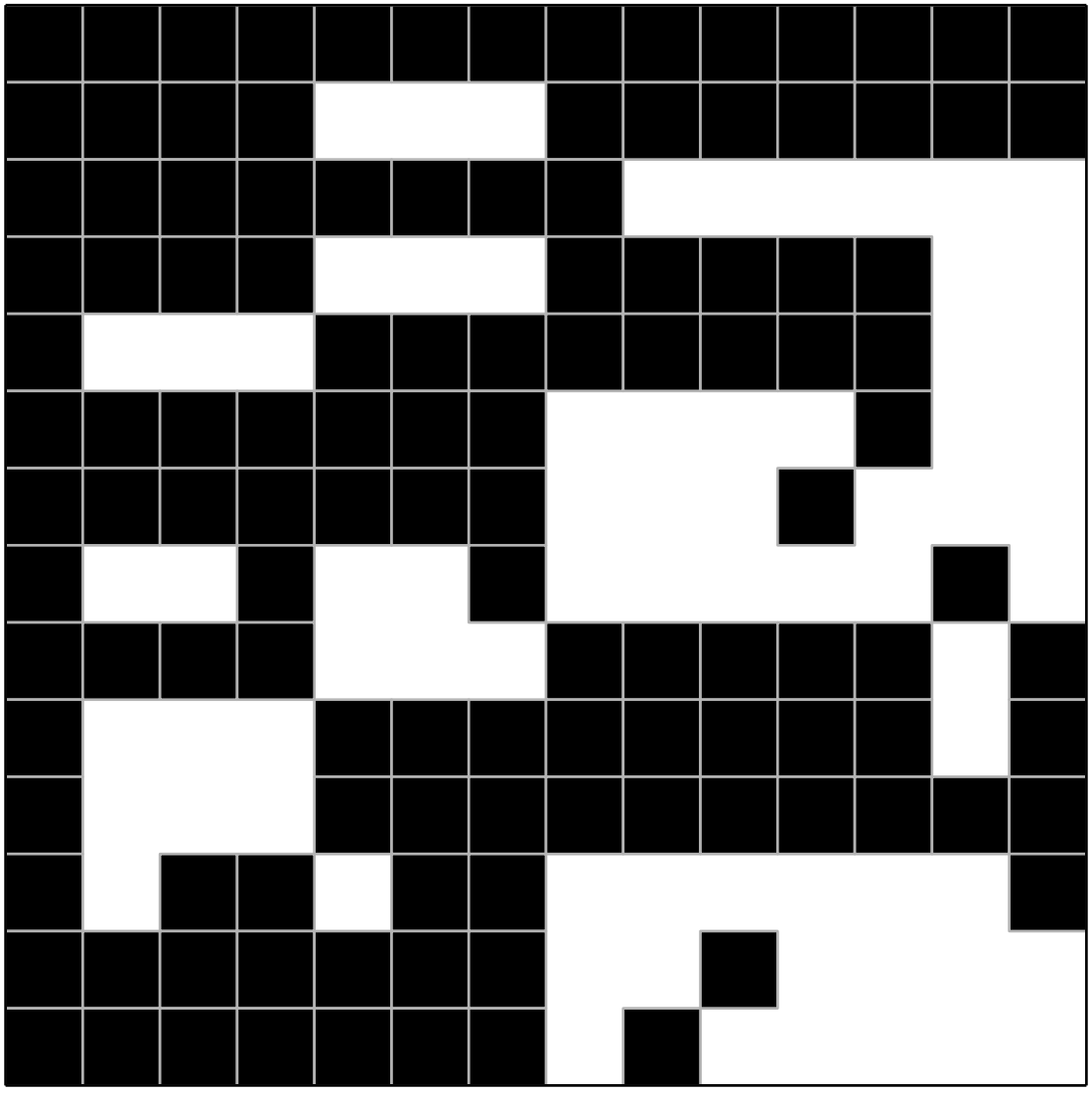


lib3_des18_3-06 14x14 (124) con: 7, var: 7



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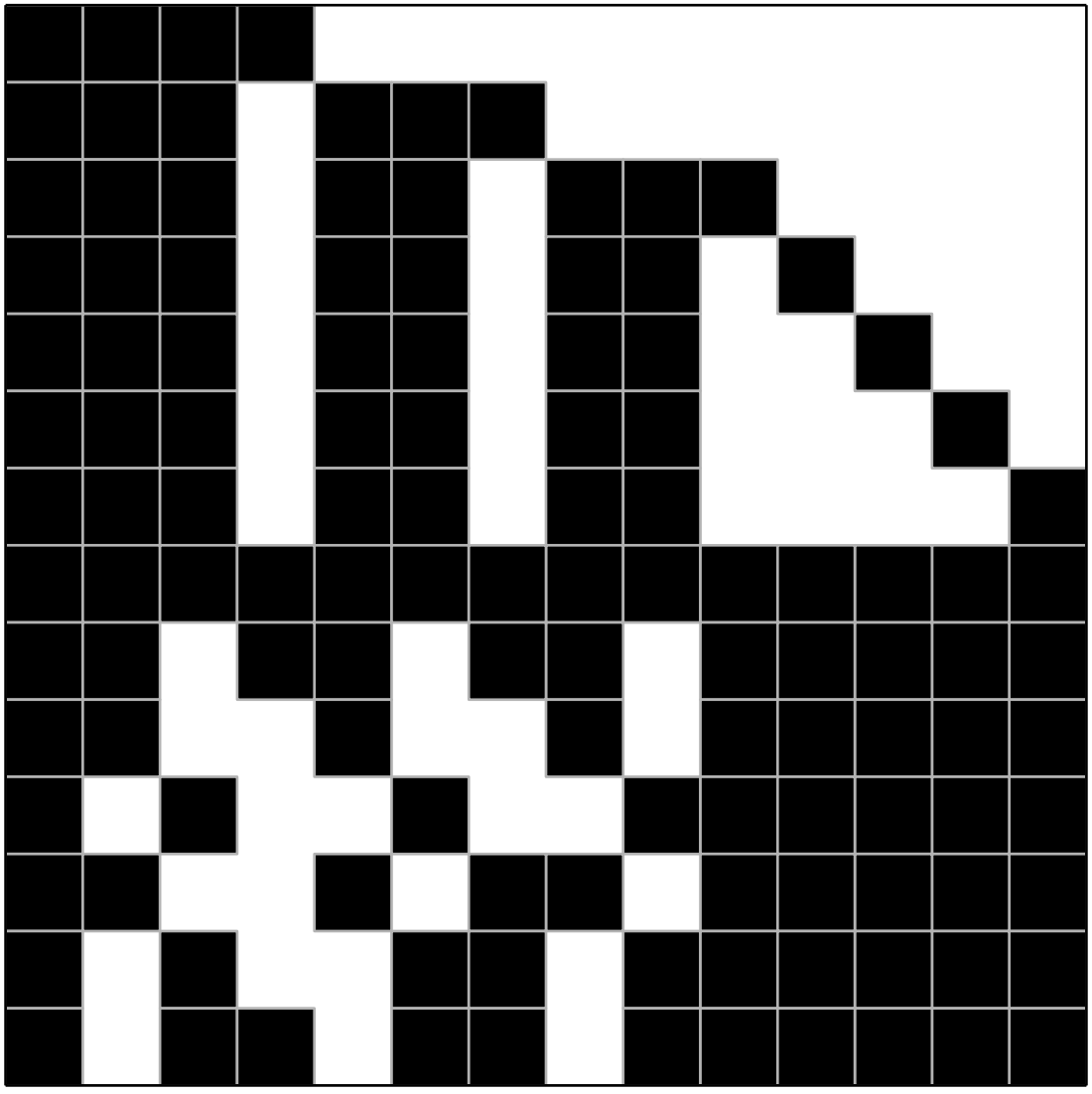
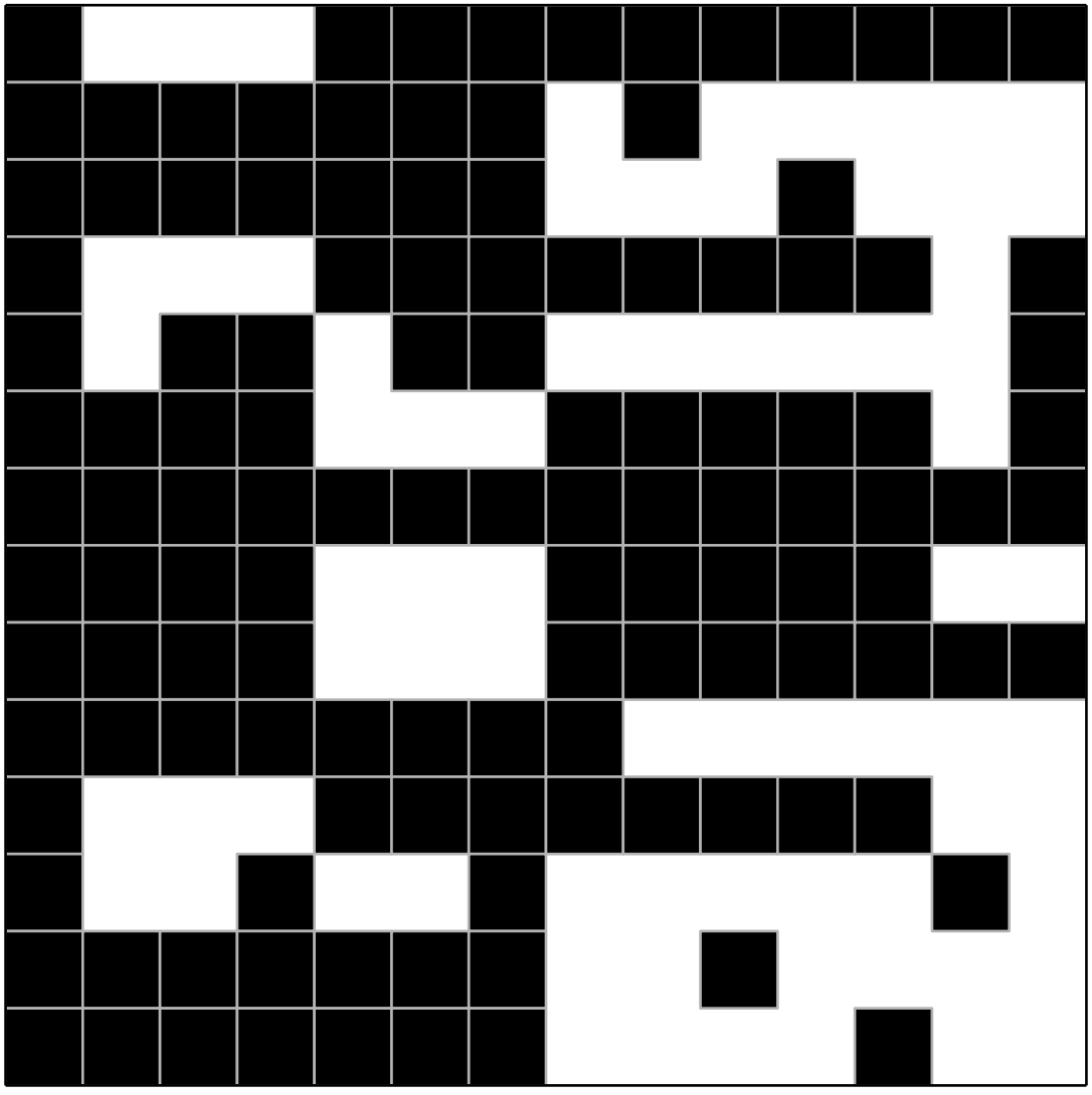


lib3_des18_3-07 14x14 (124) con: 7, var: 7



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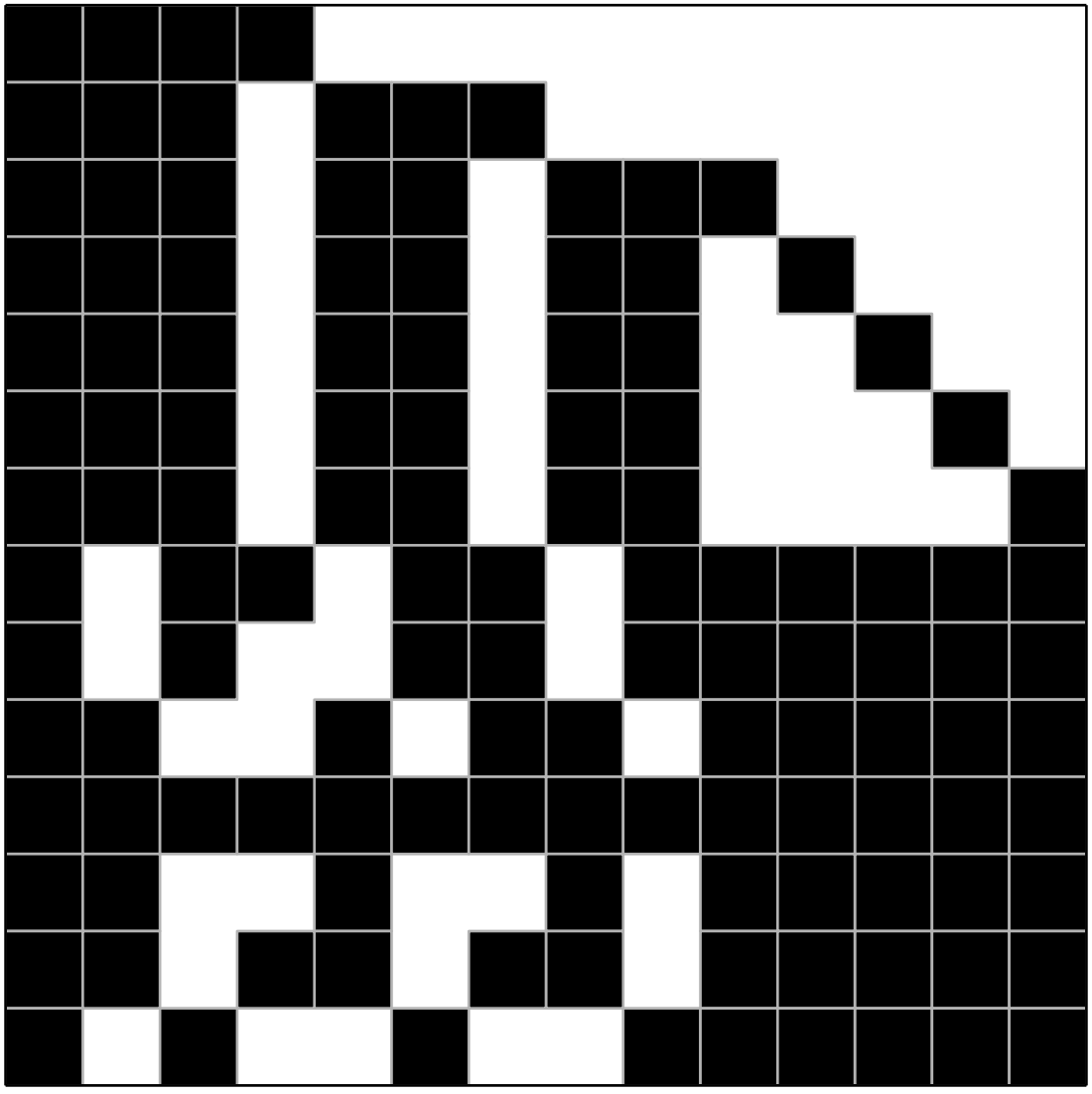
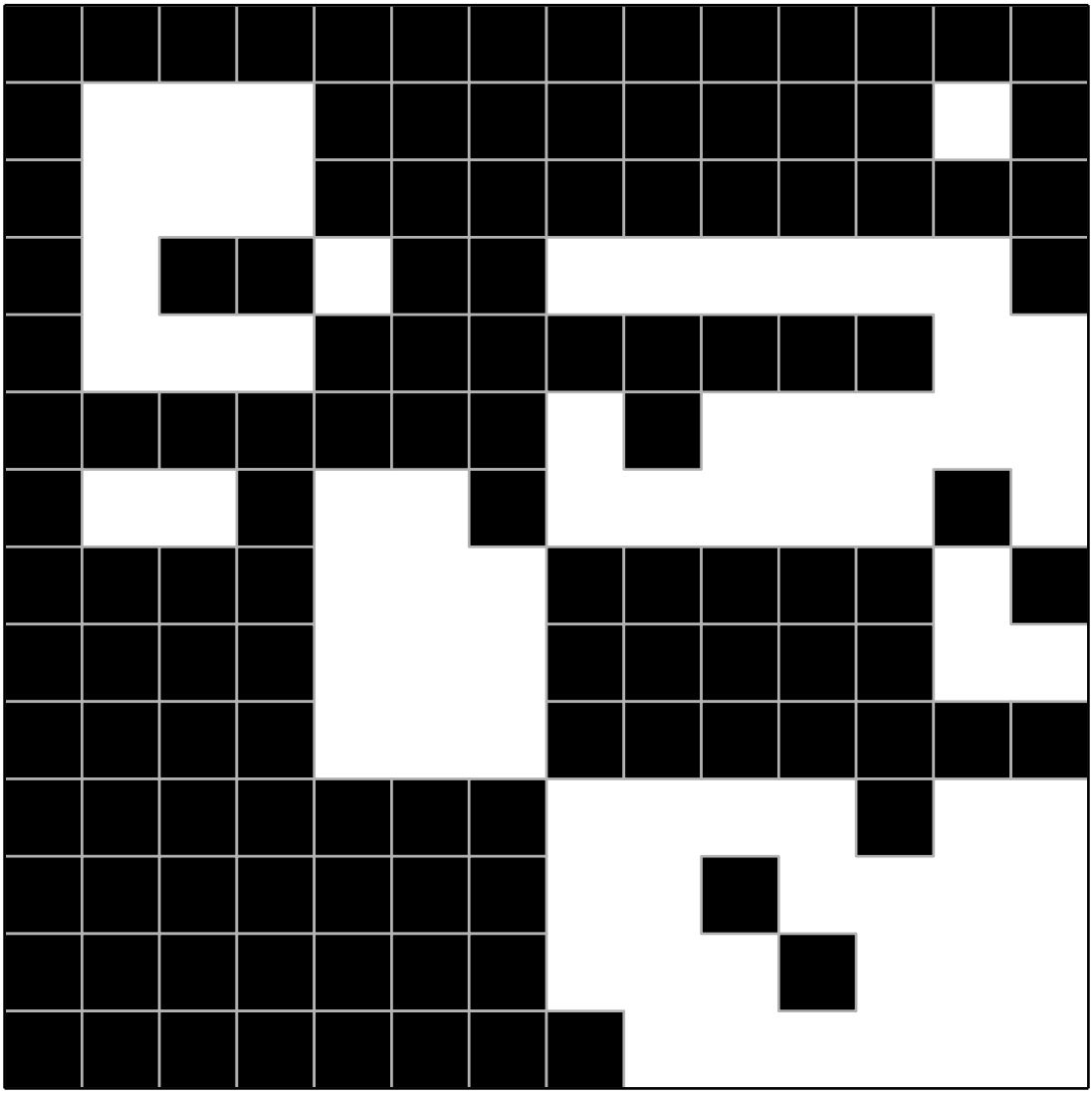
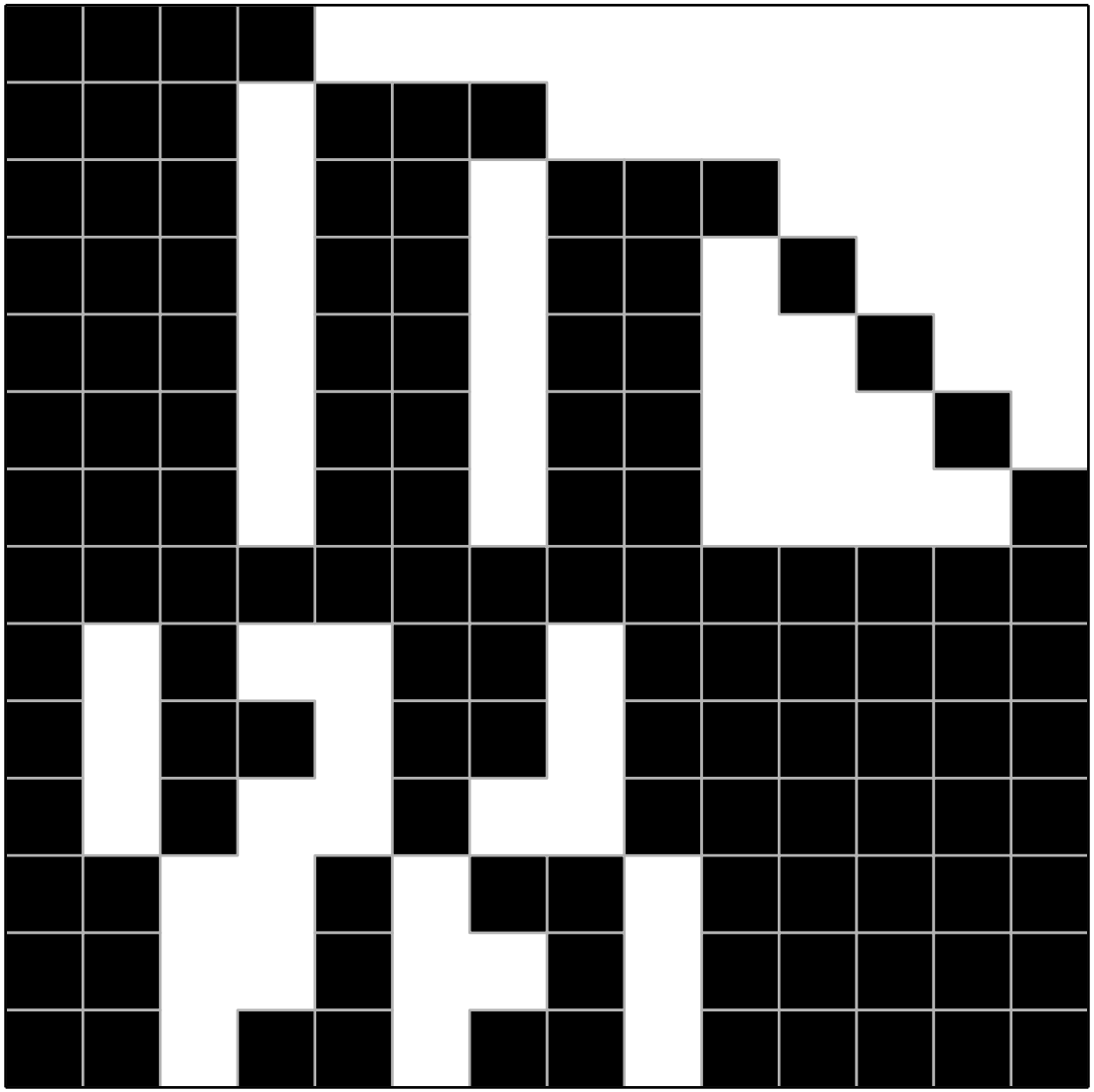


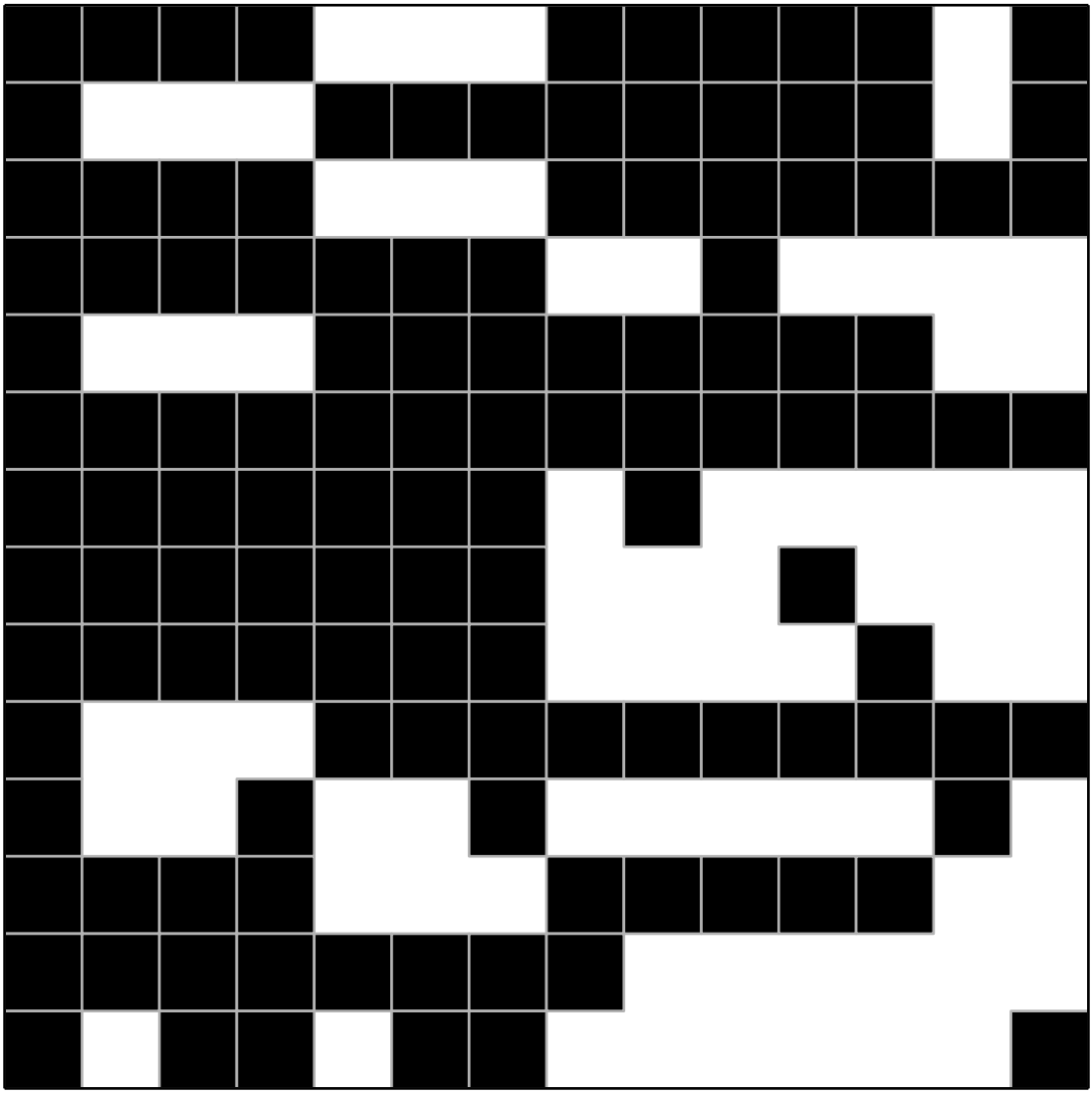
lib3_des18_3-08 14x14 (124) con: 7, var: 7



lib3_des18_3-08, cost: 7, diff: 7, explored: 3, time: 0.00s



lib3_des18_3-09 14x14 (124) con: 7, var: 7



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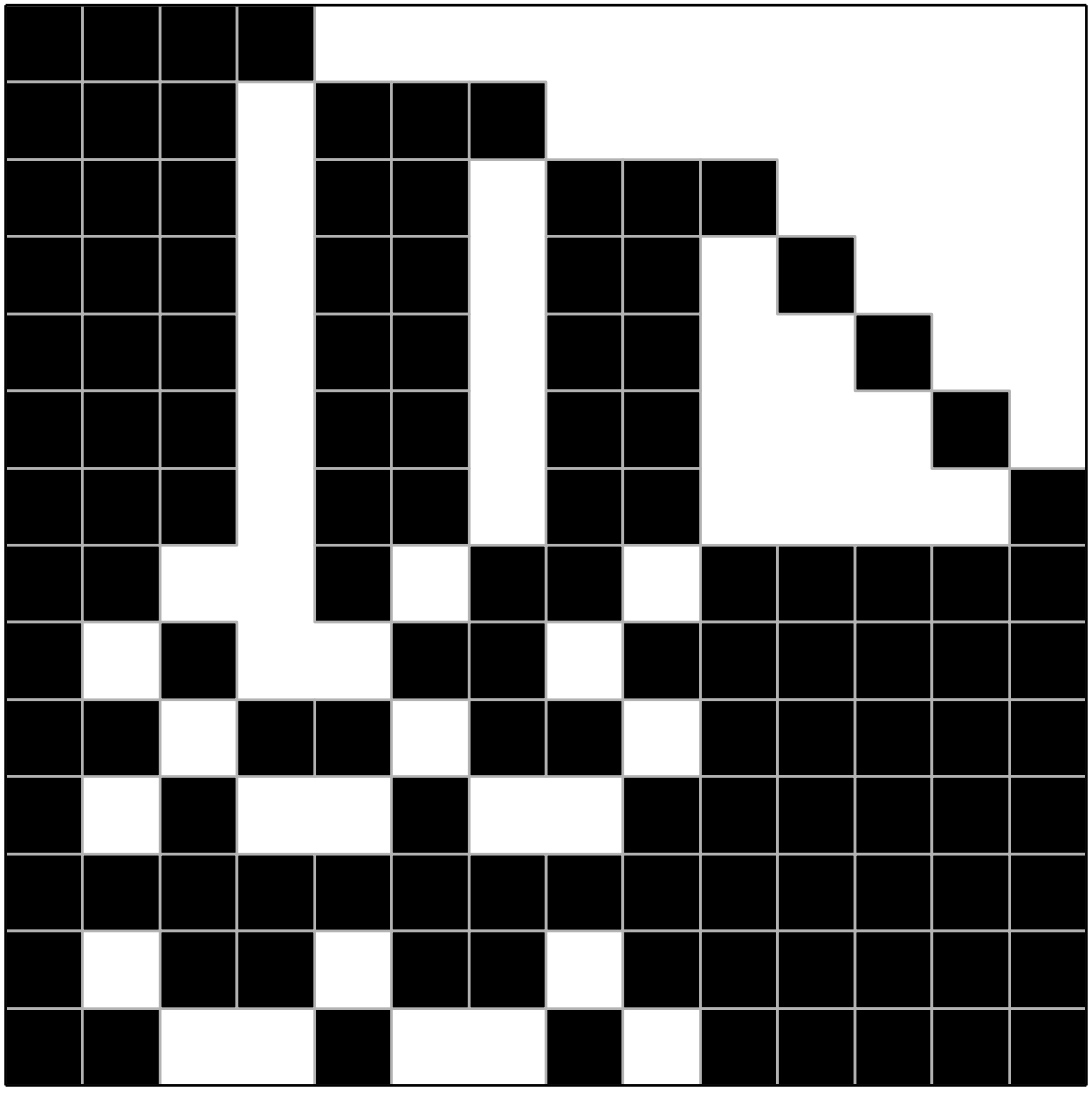
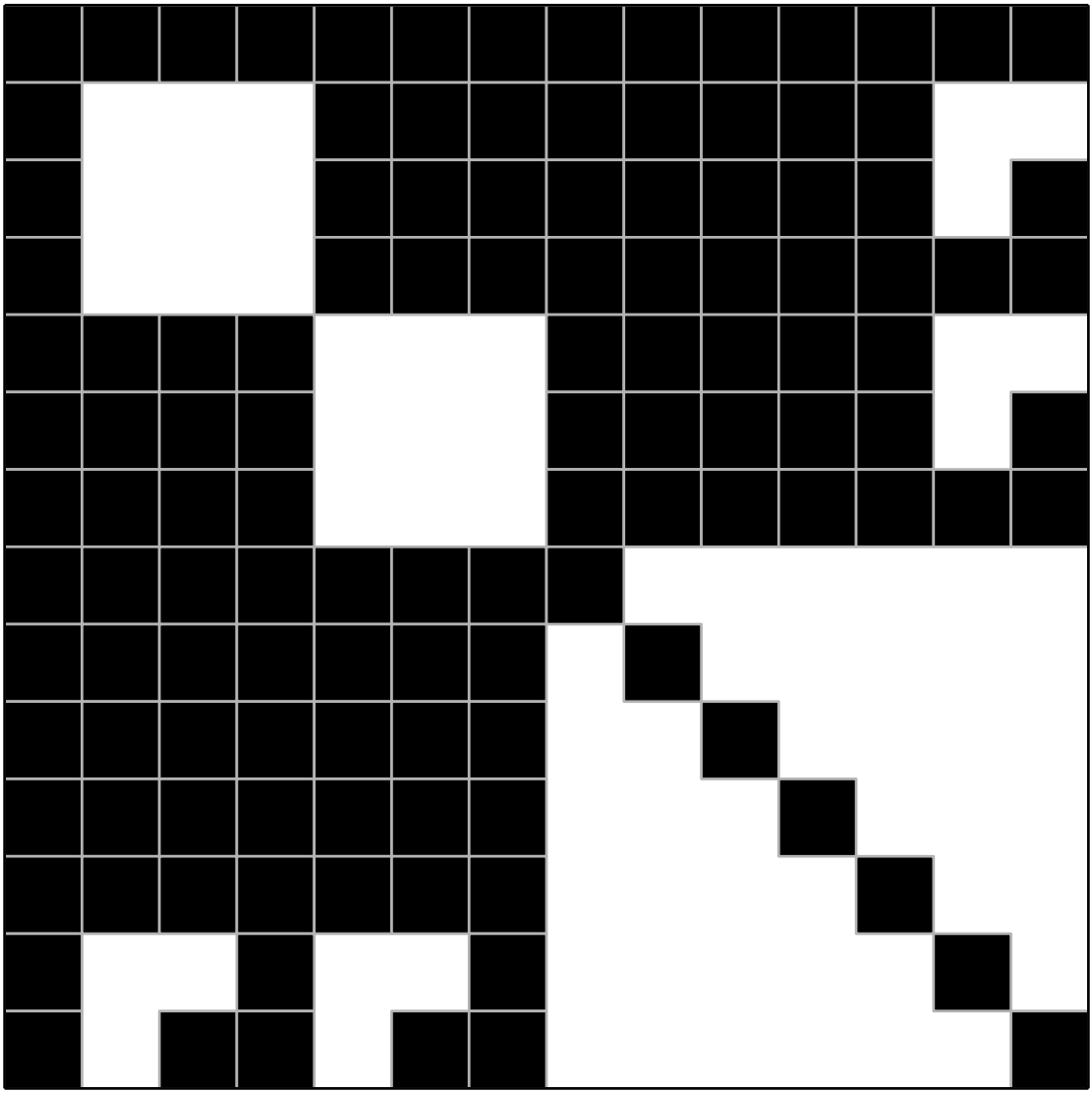
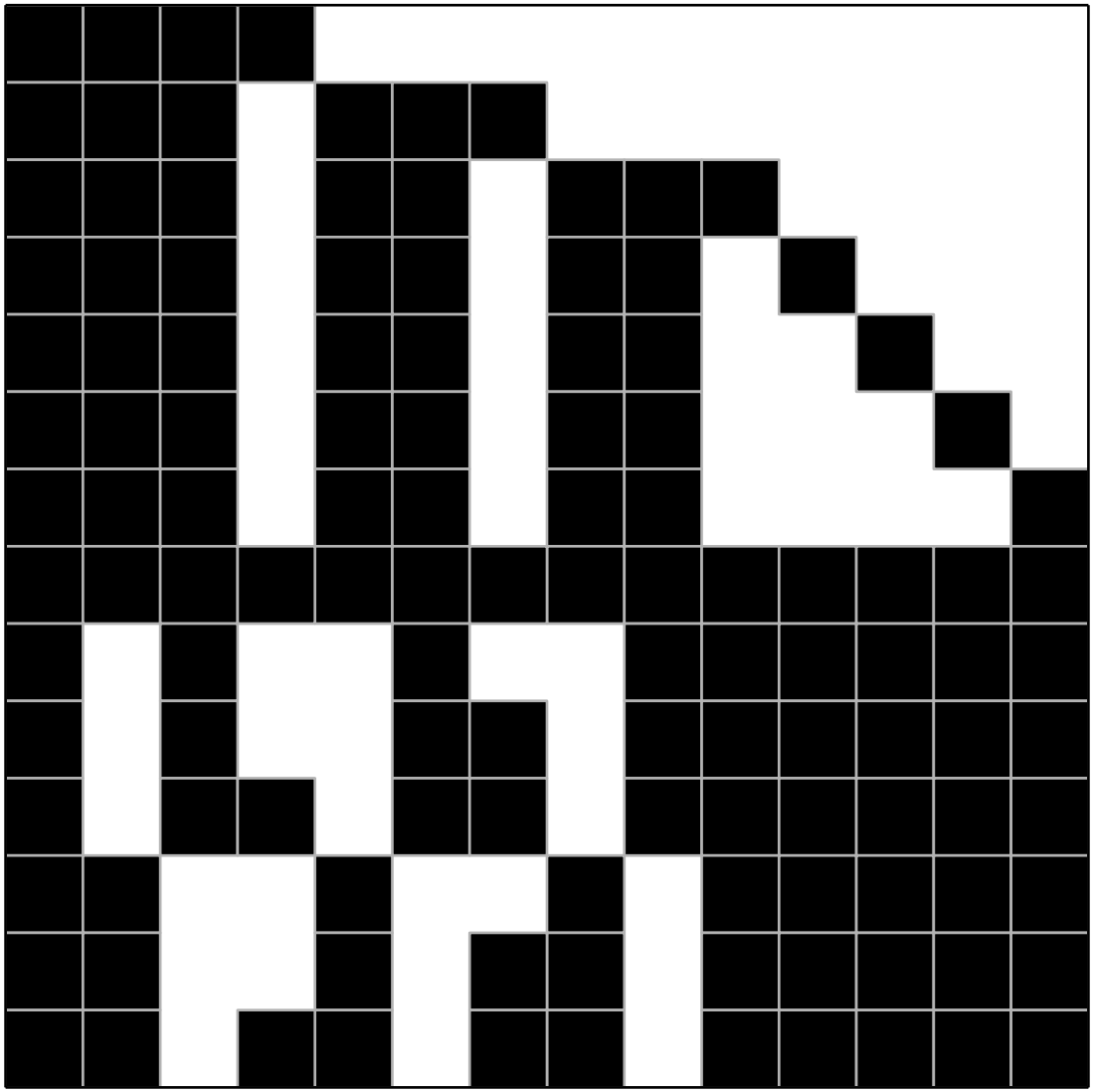


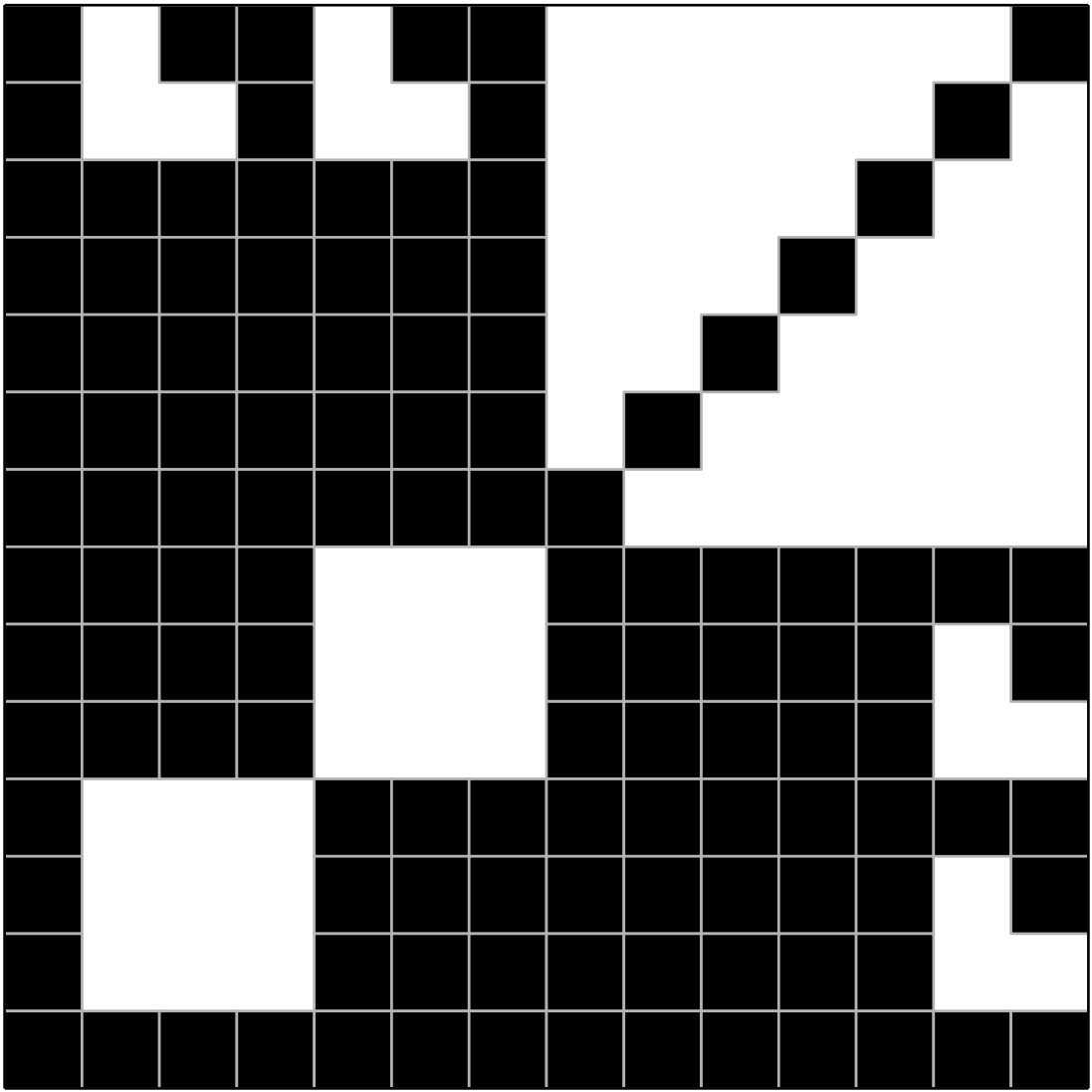
lib3_des18_3-IN 14x14 (124) con: 7, var: 7

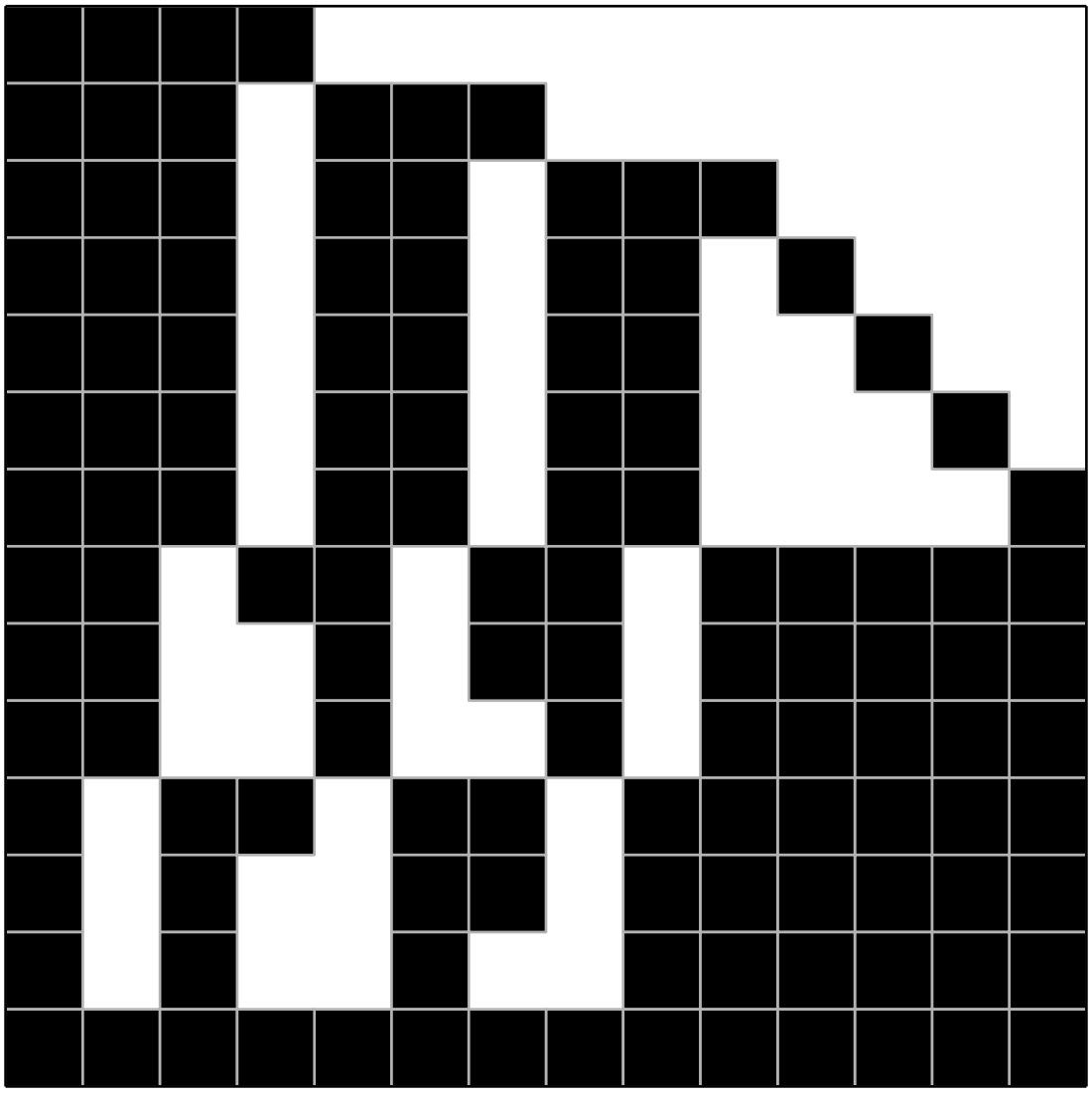


lib3_des18_3-IN, cost: 7, diff: 7, explored: 3, time: 0.00s

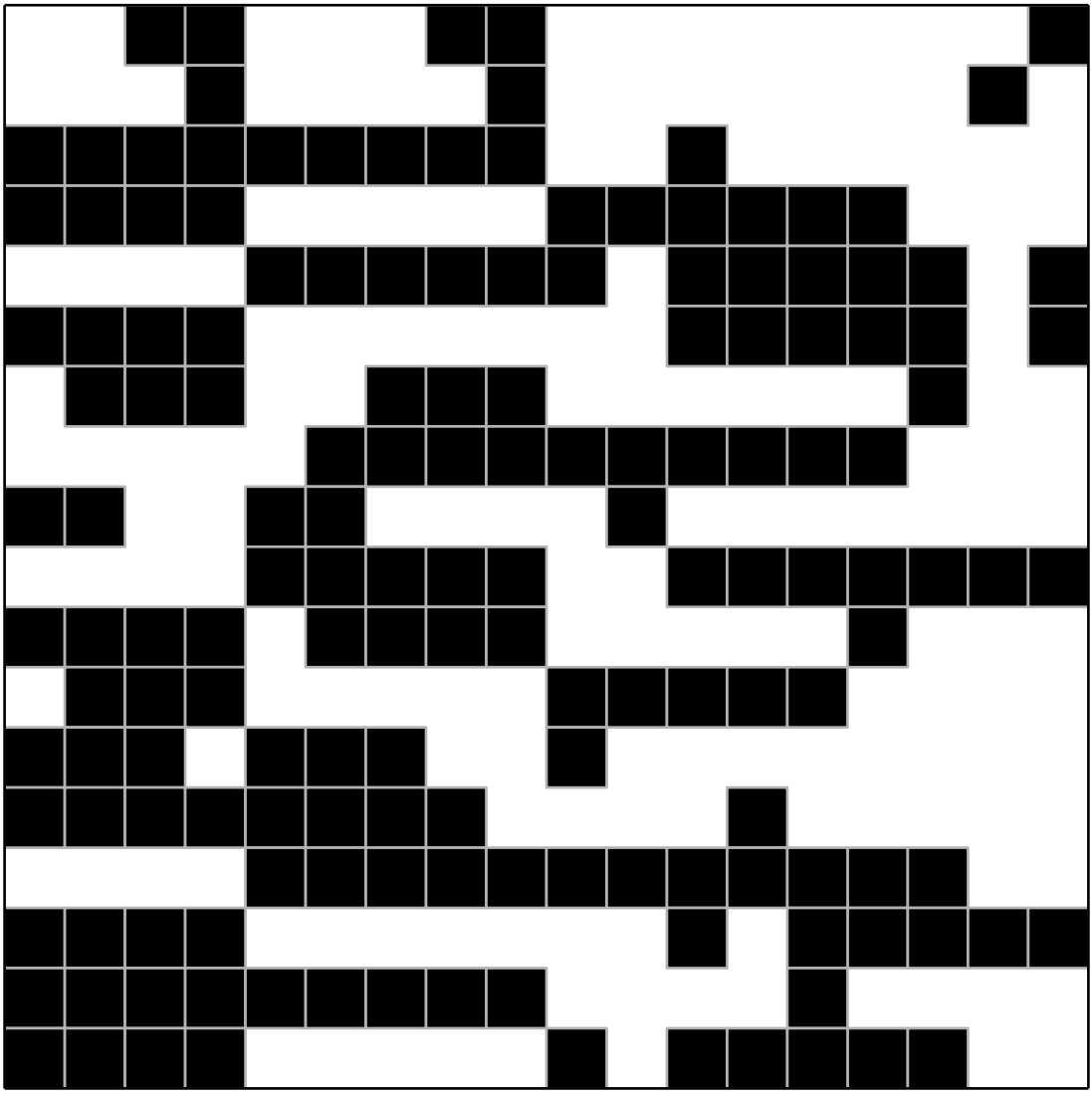


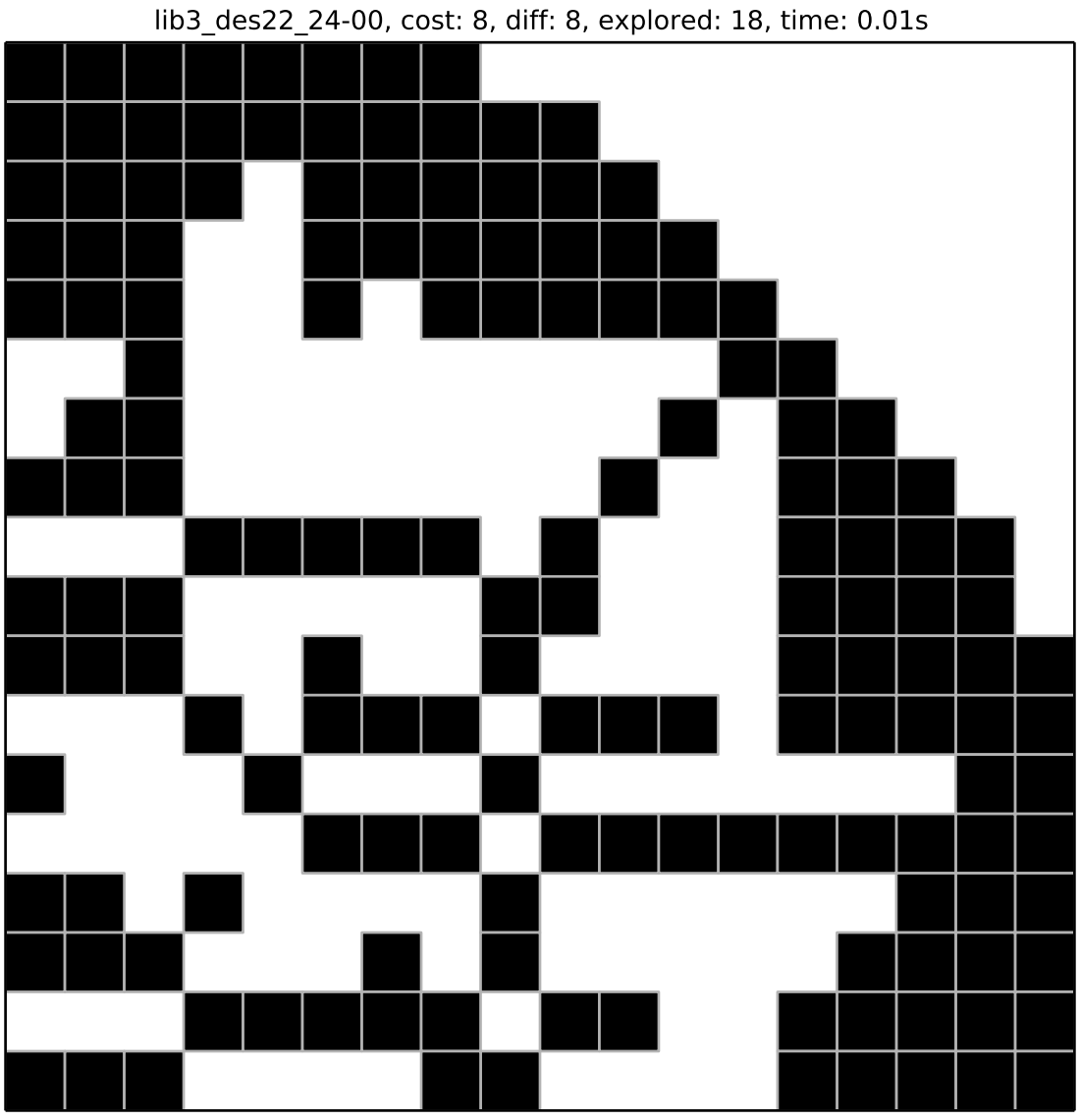
lib3_des18_3-RE 14x14 (124) con: 7, var: 7



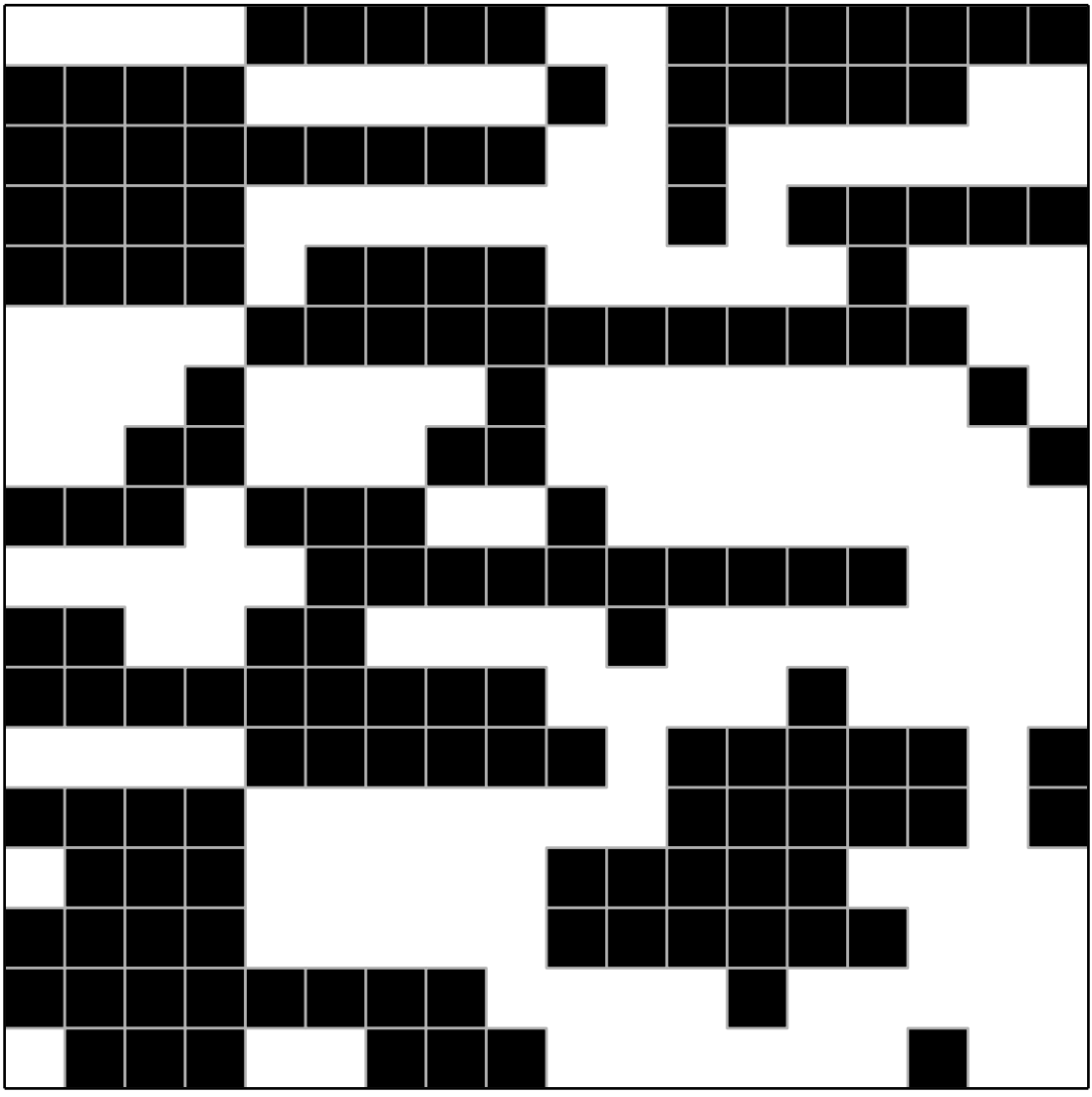

lib3_des18_3-RE, cost: 7, diff: 7, explored: 3, time: 0.00s

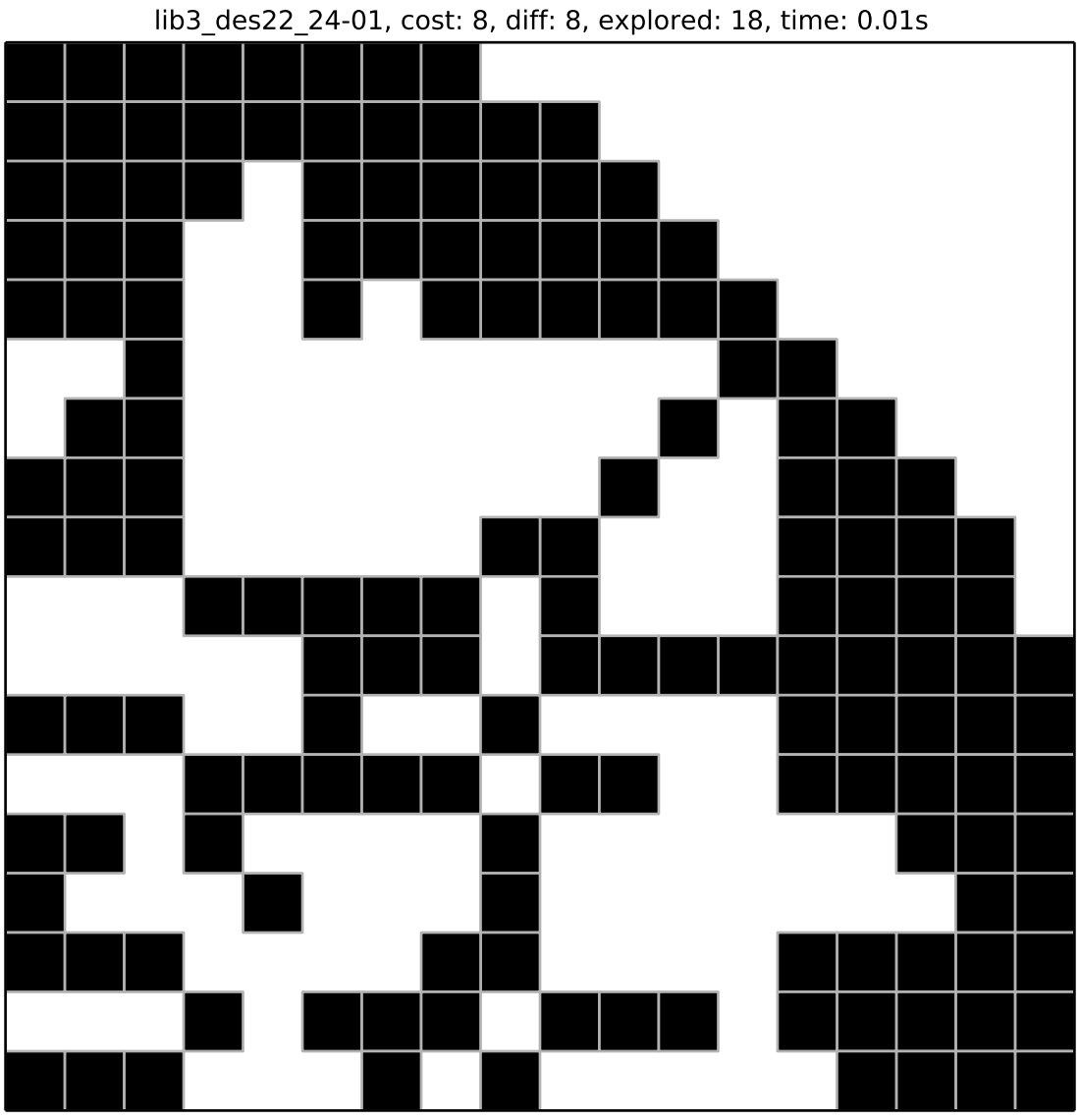
lib3_des22_24-00 18x18 (159) con: 9, var: 9



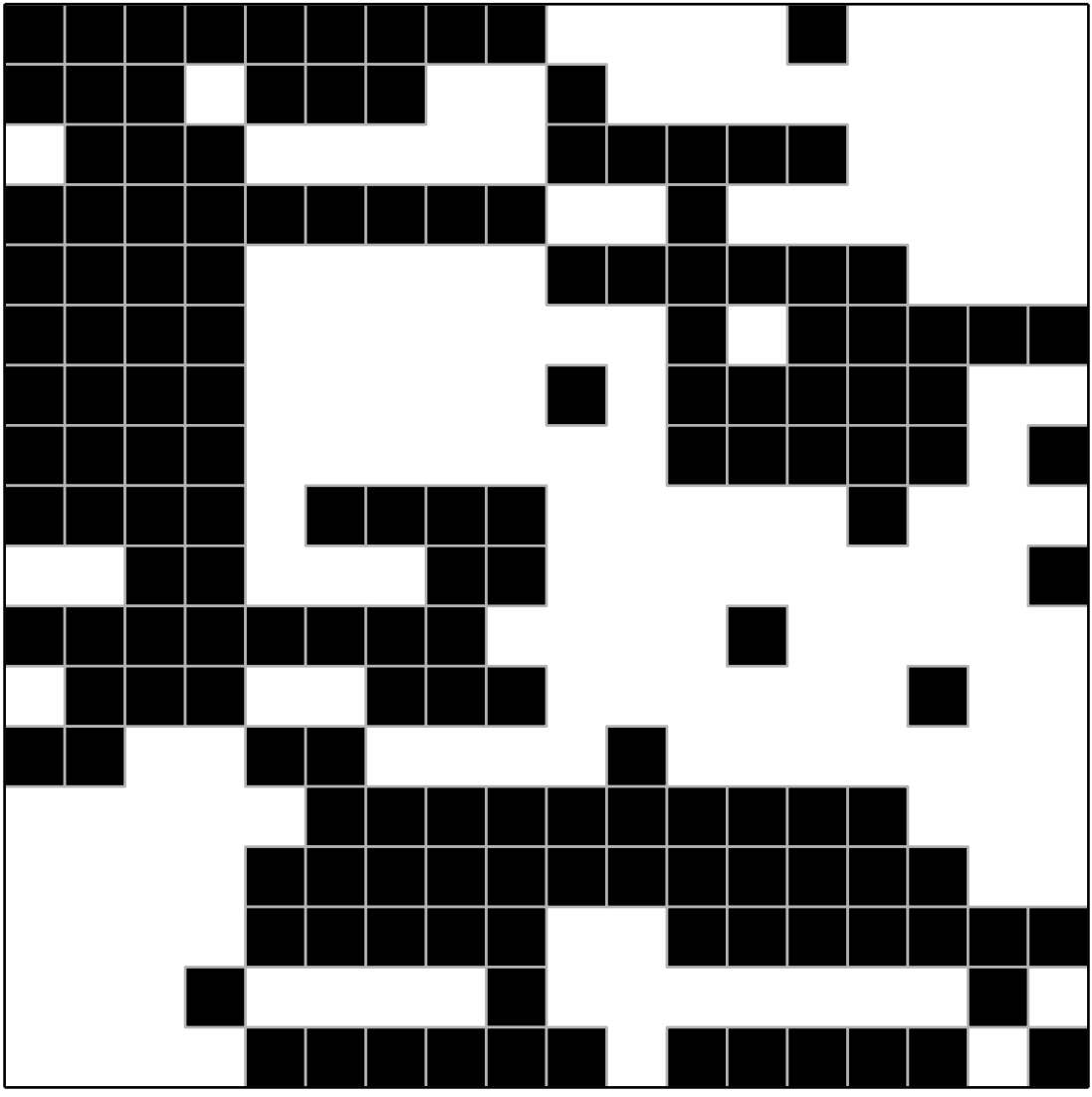

lib3_des22_24-00, cost: 8, diff: 8, explored: 18, time: 0.01s

lib3_des22_24-01 18x18 (159) con: 9, var: 9




lib3_des22_24-01, cost: 8, diff: 8, explored: 18, time: 0.01s

lib3_des22_24-02 18x18 (159) con: 9, var: 9



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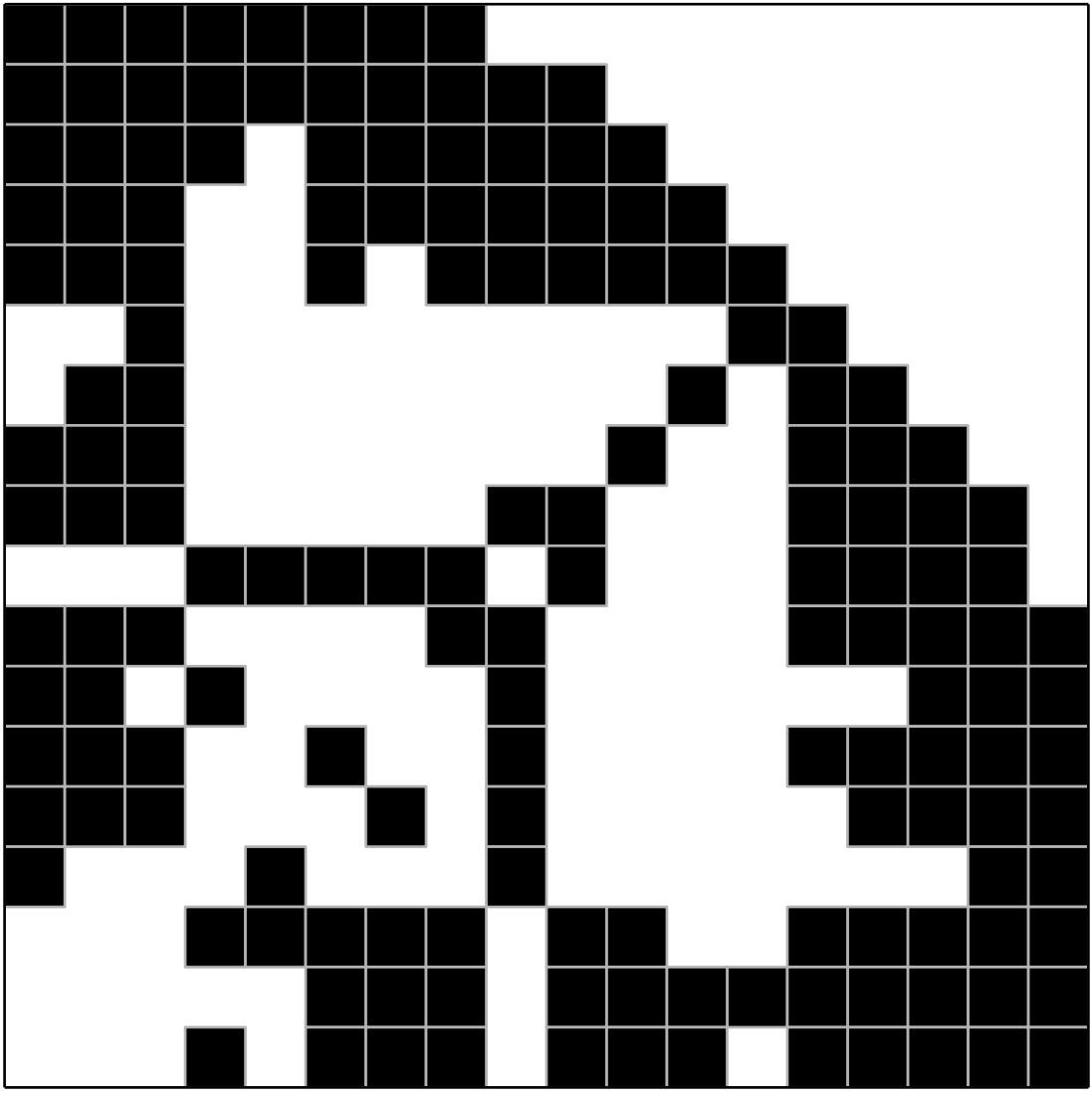
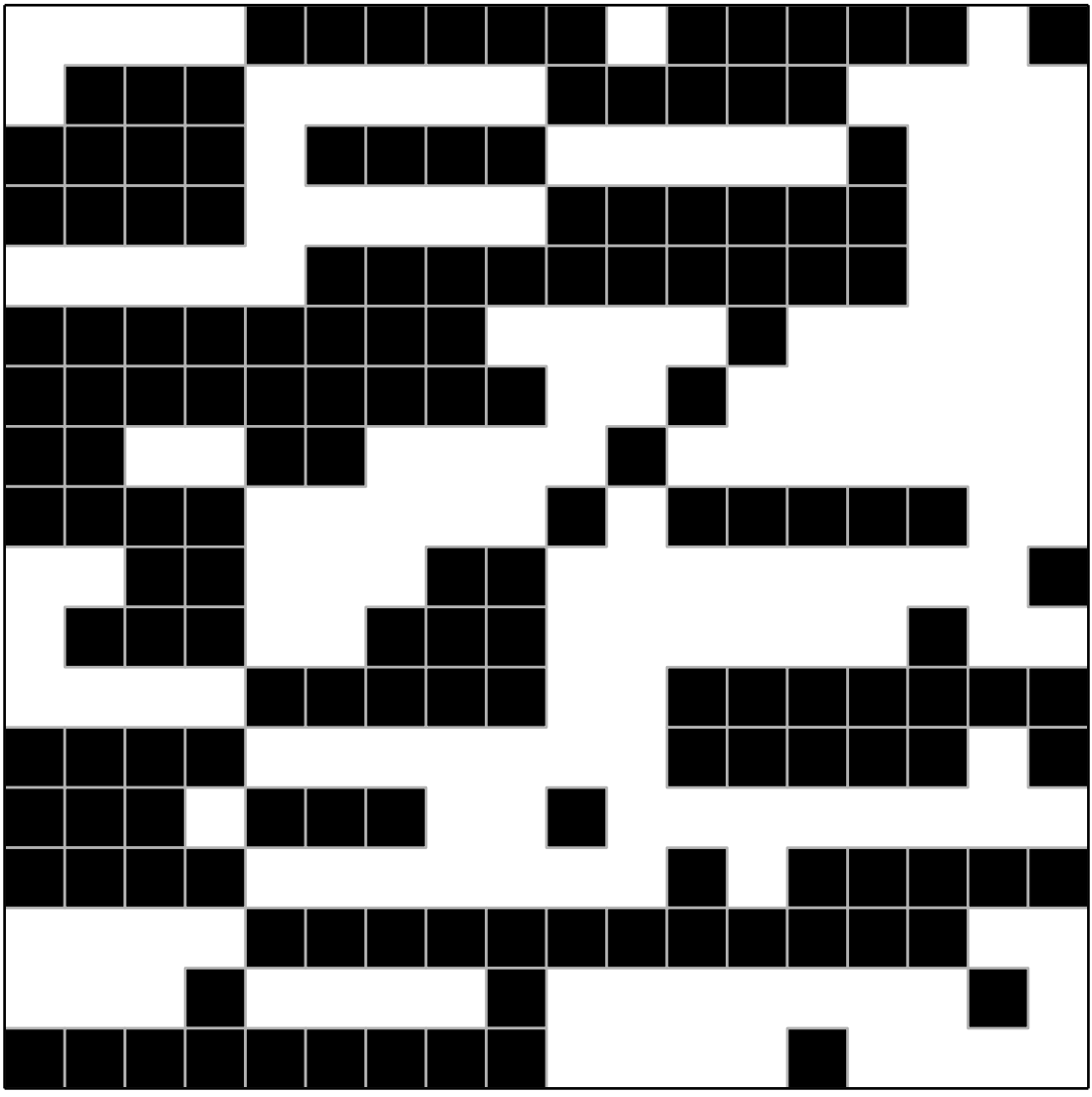
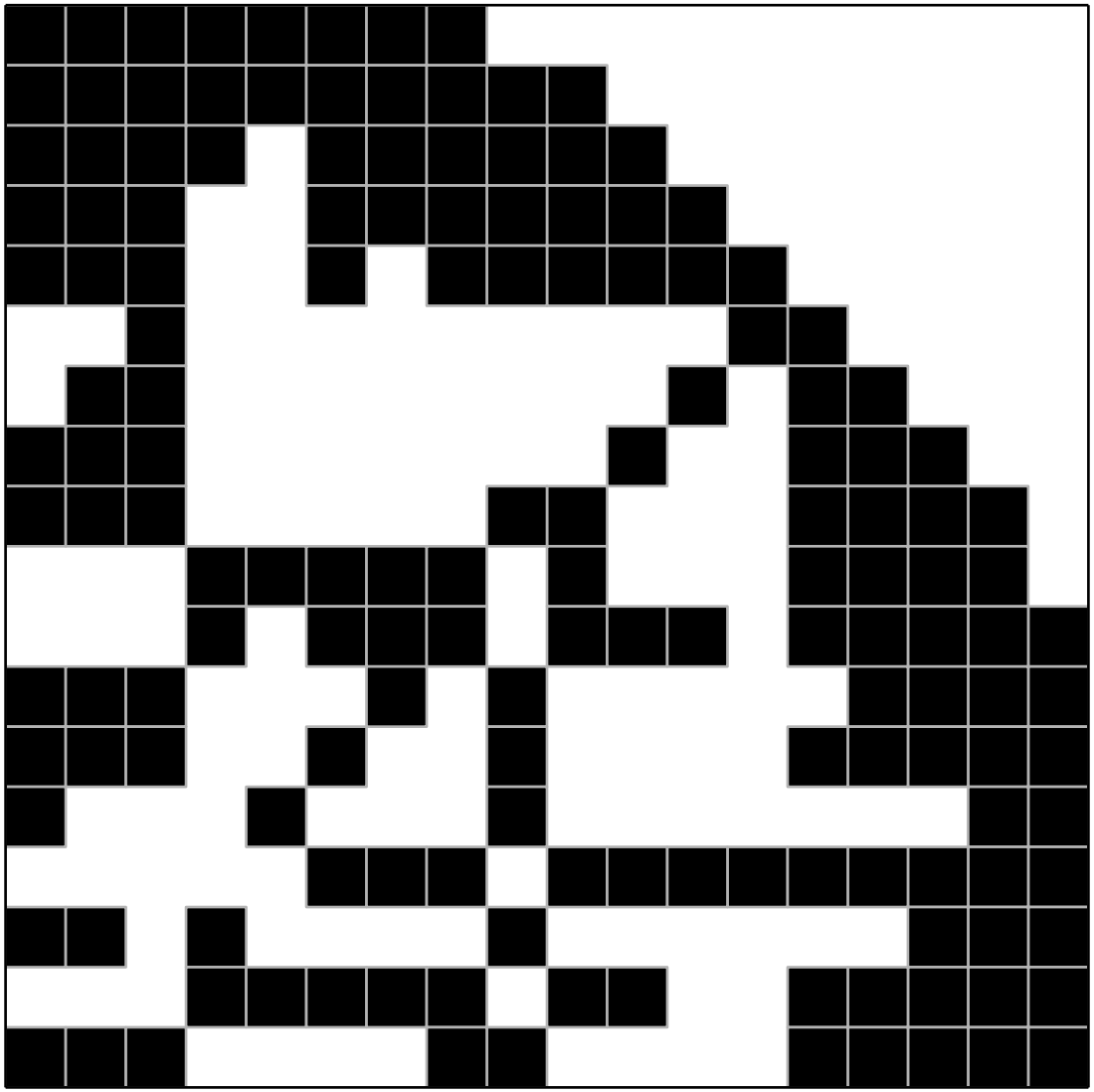


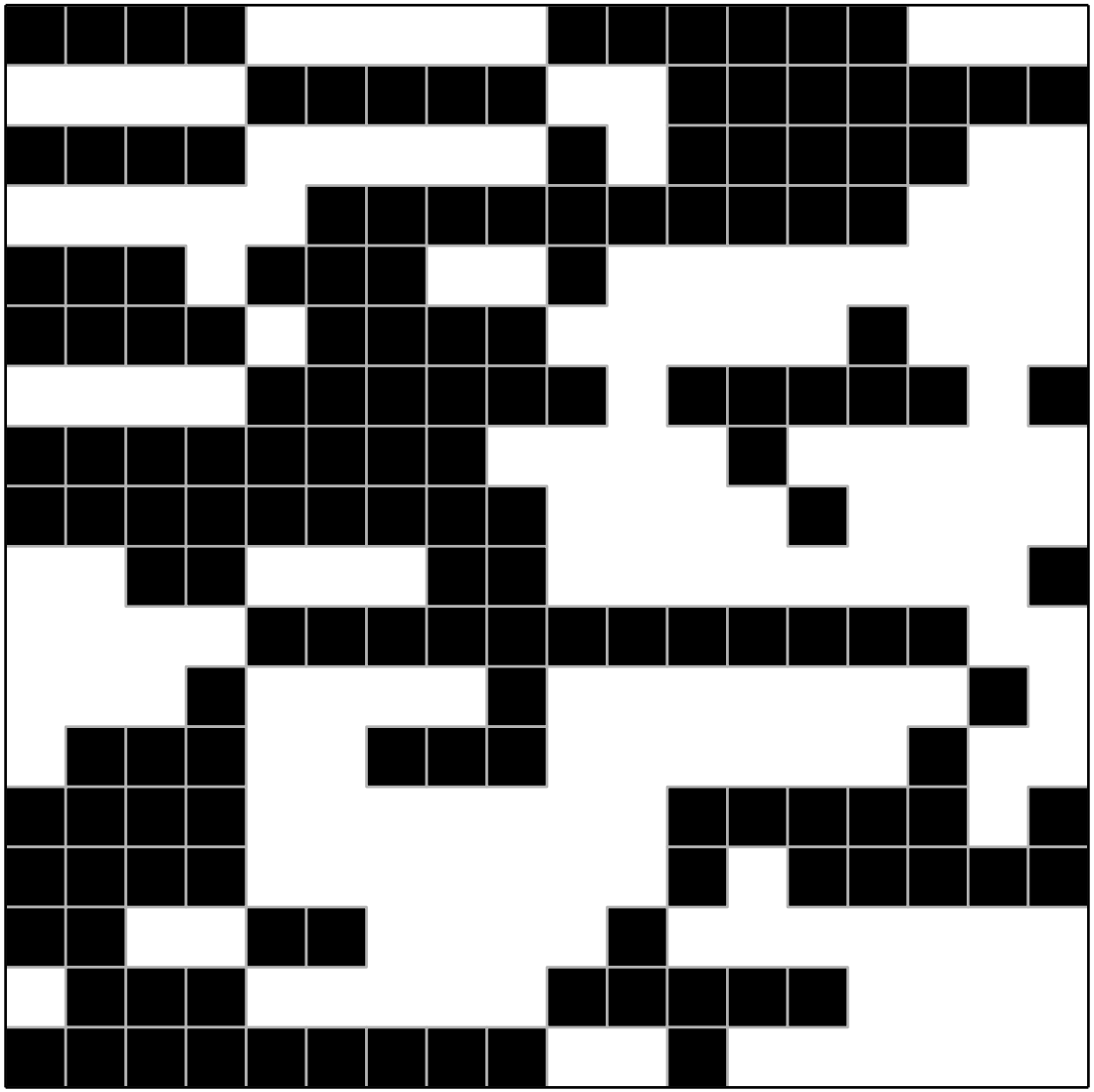
lib3_des22_24-03 18x18 (159) con: 9, var: 9



lib3_des22_24-03, cost: 8, diff: 8, explored: 17, time: 0.01s



lib3_des22_24-04 18x18 (159) con: 9, var: 9



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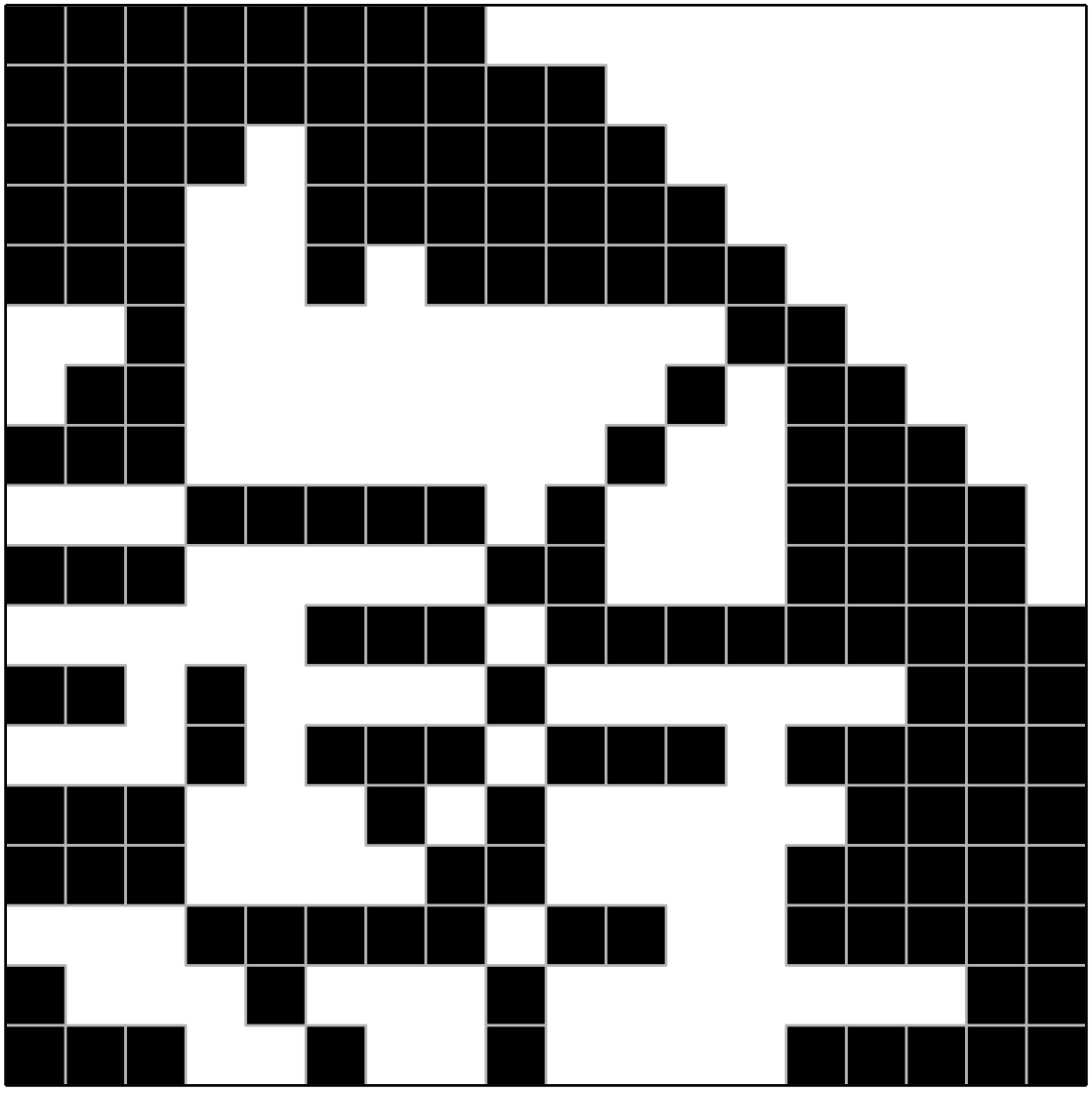

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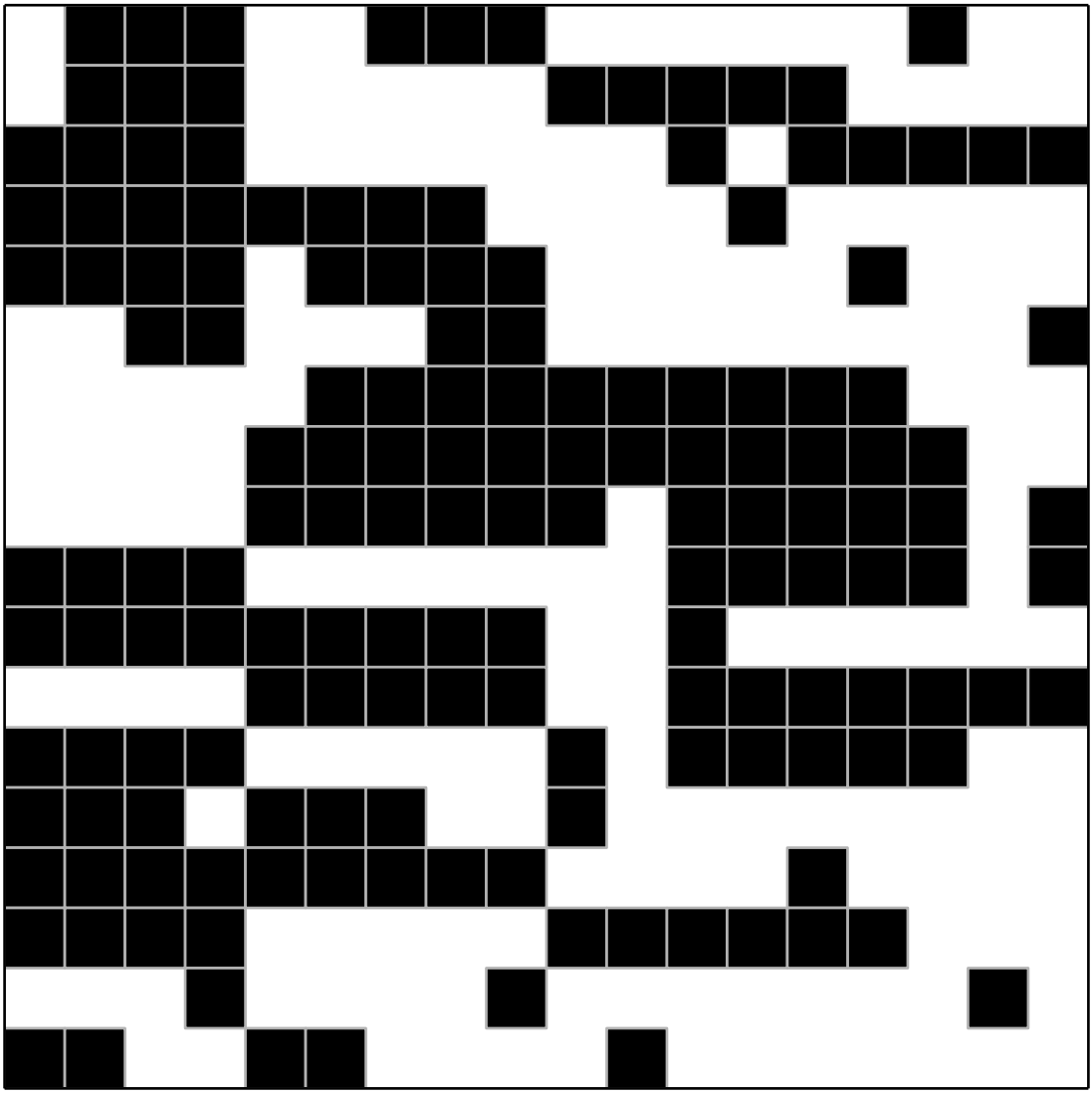

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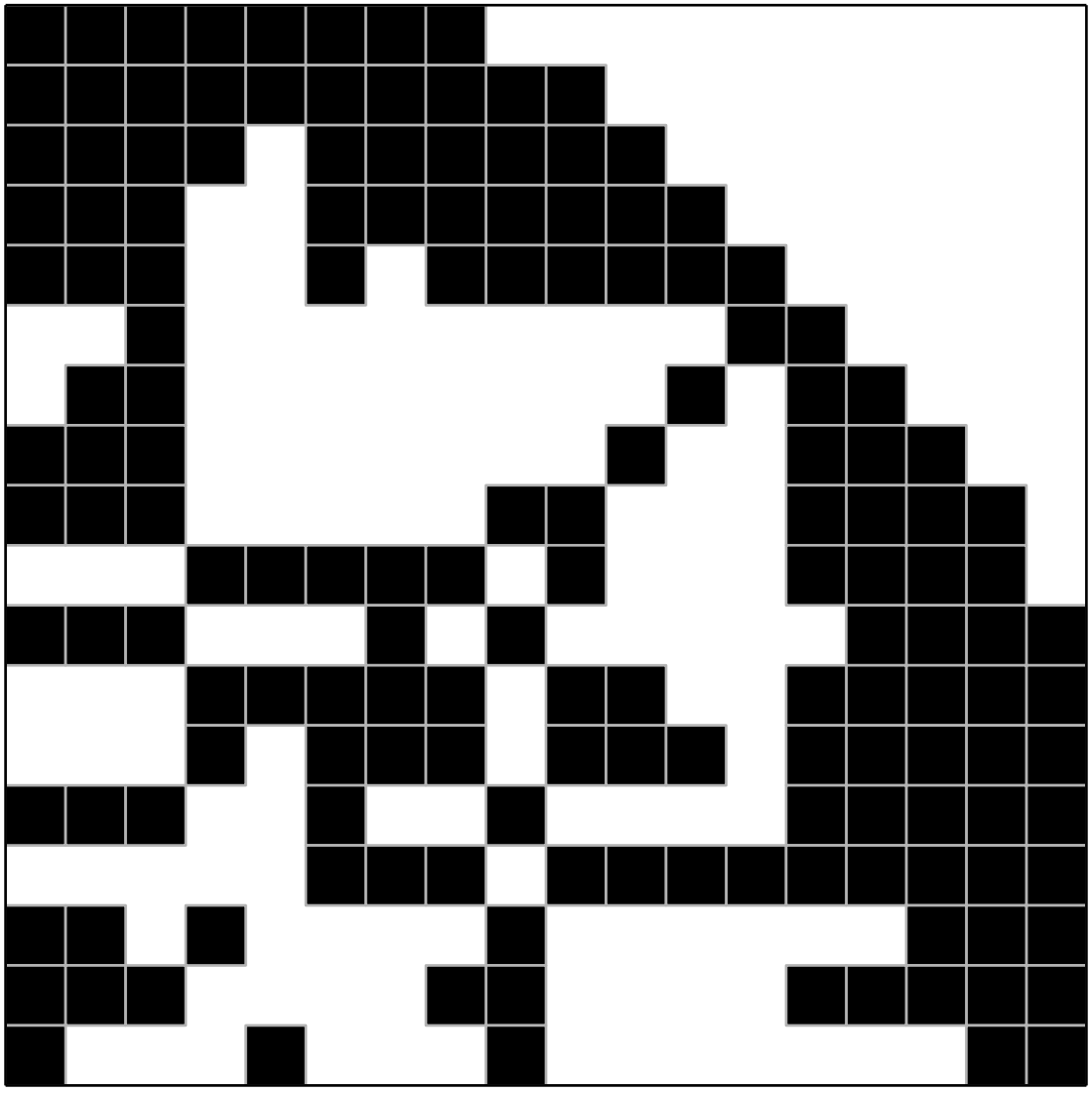
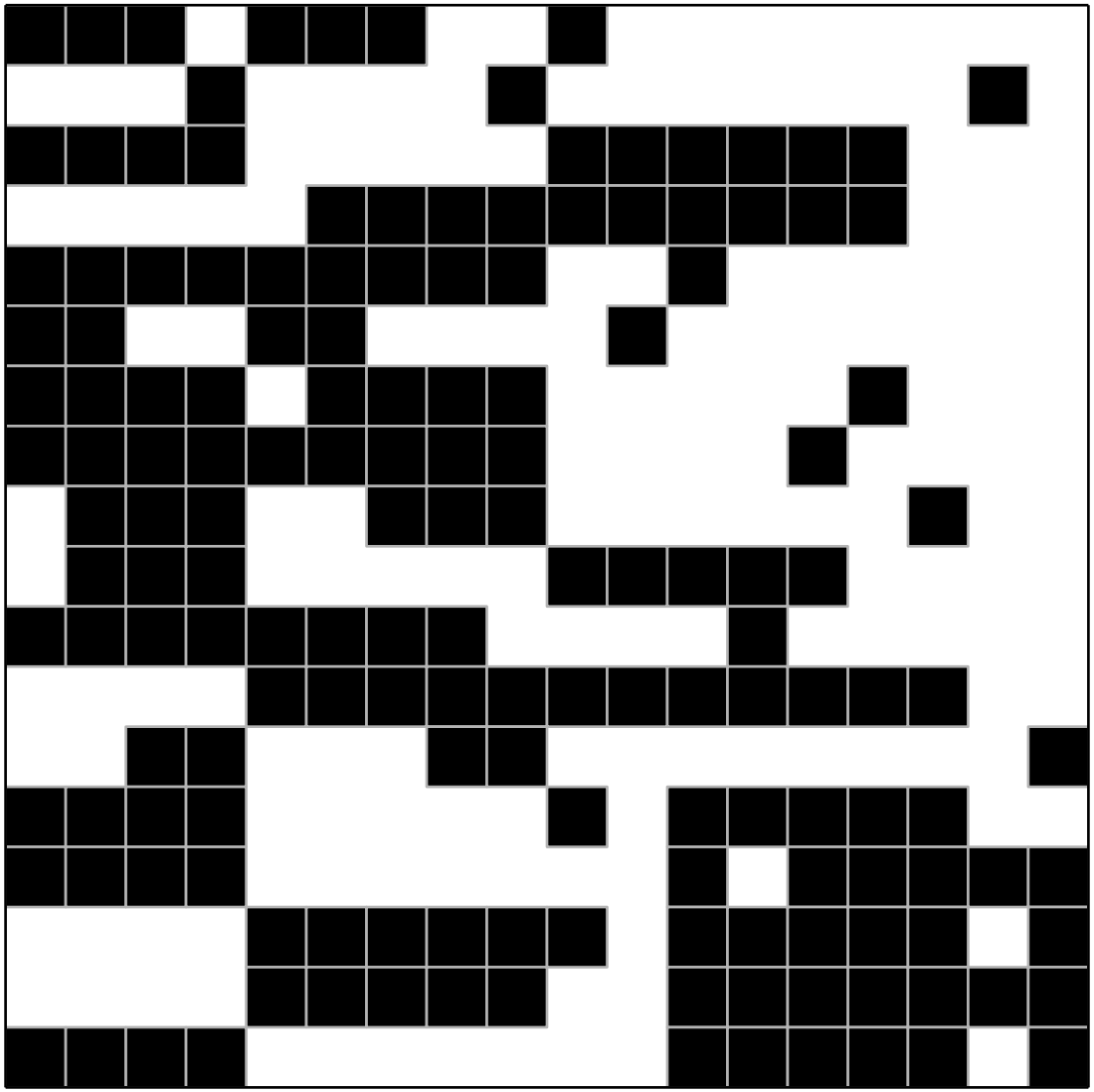
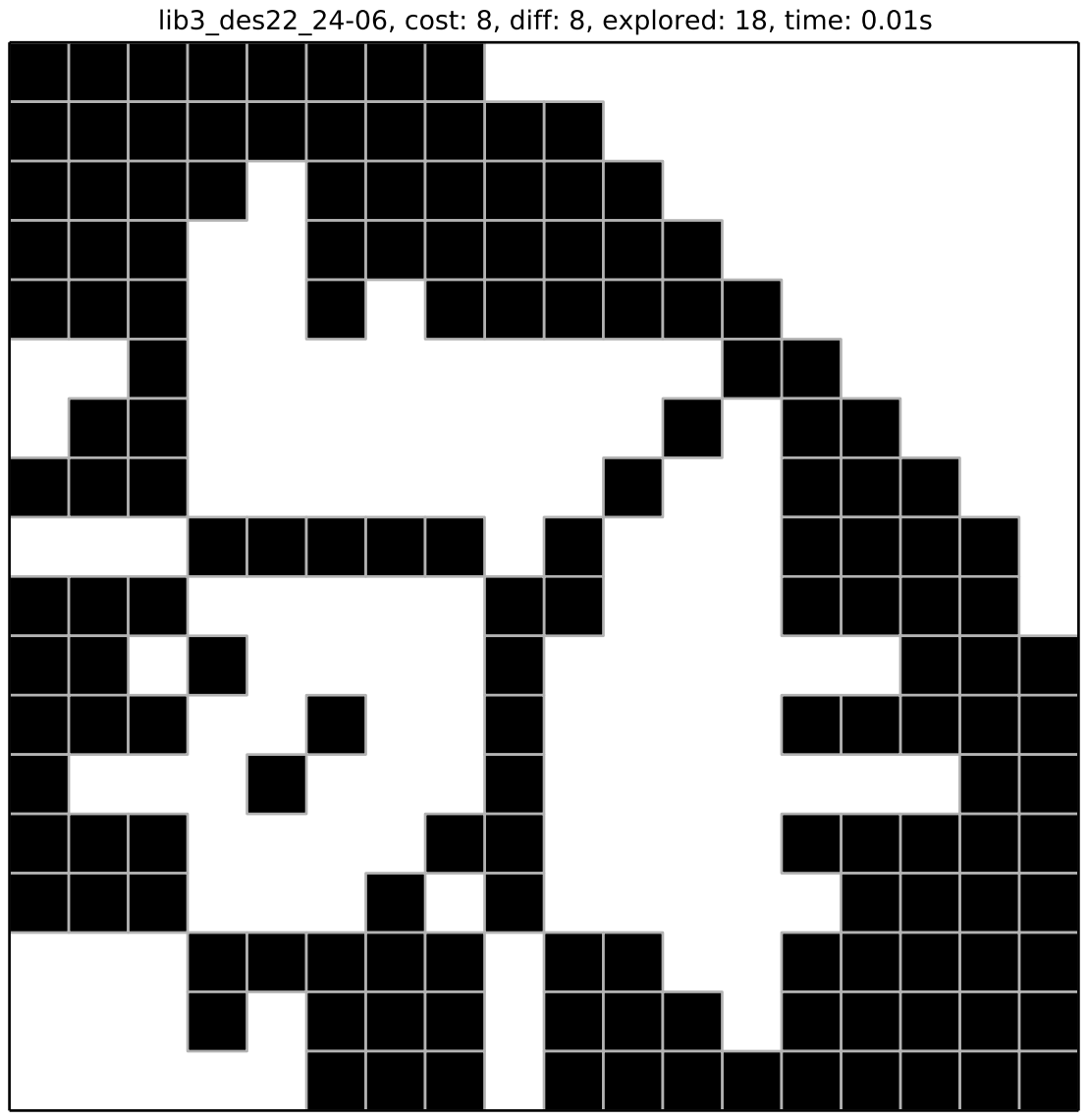


lib3_des22_24-06 18x18 (159) con: 9, var: 9

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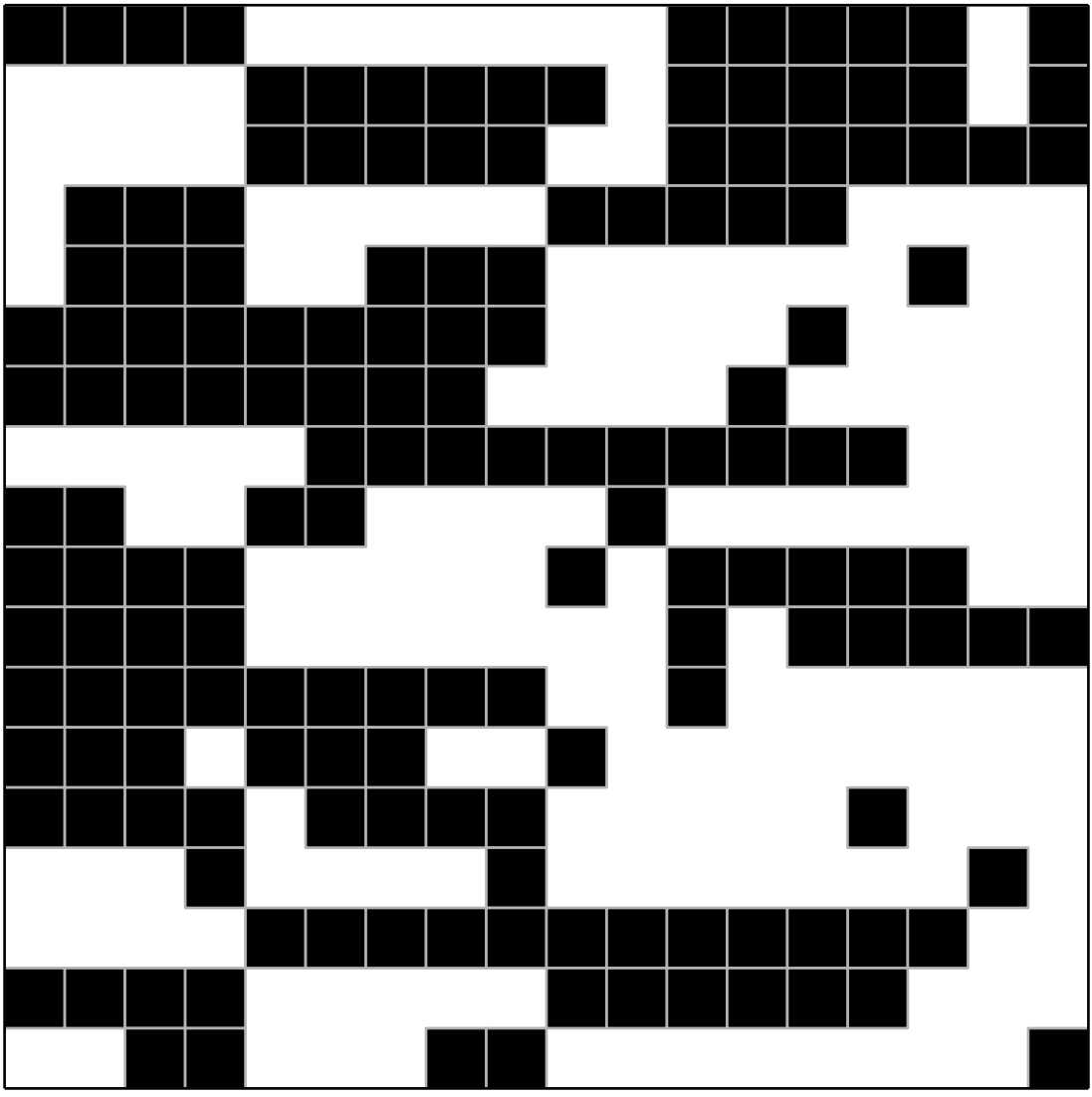
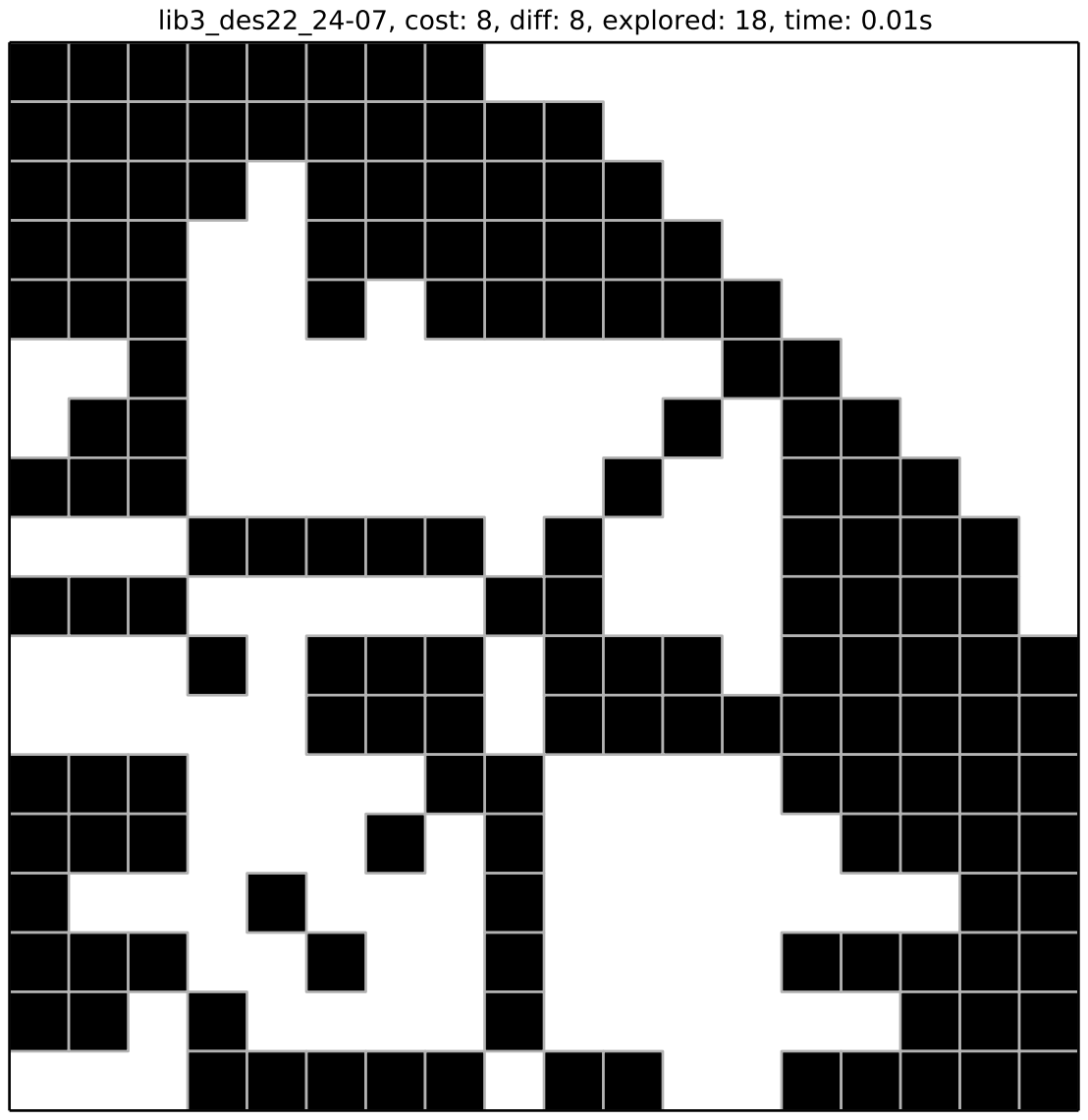
lib3_des22_24-07 18x18 (159) con: 9, var: 9

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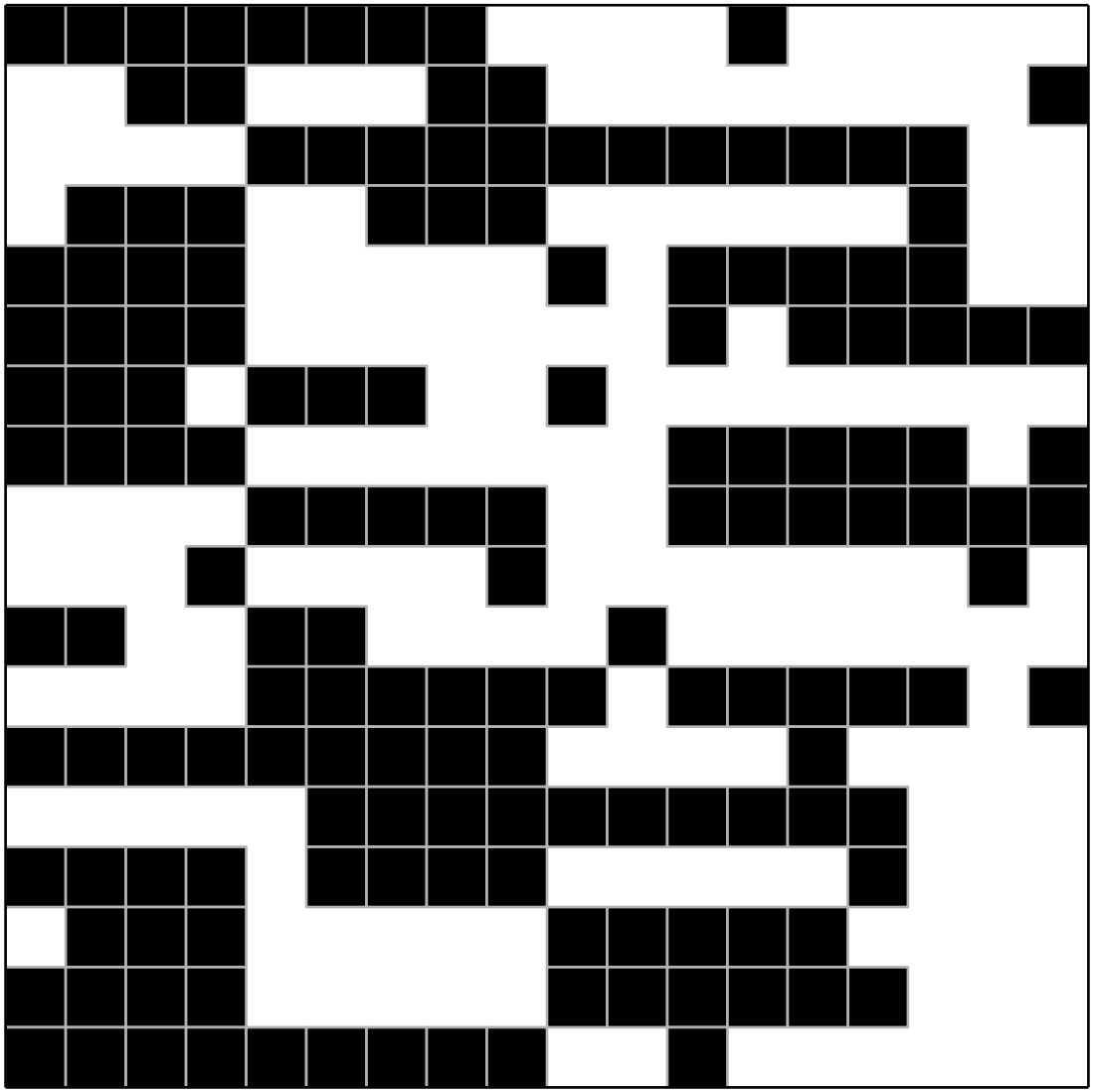
lib3_des22_24-08 18x18 (159) con: 9, var: 9



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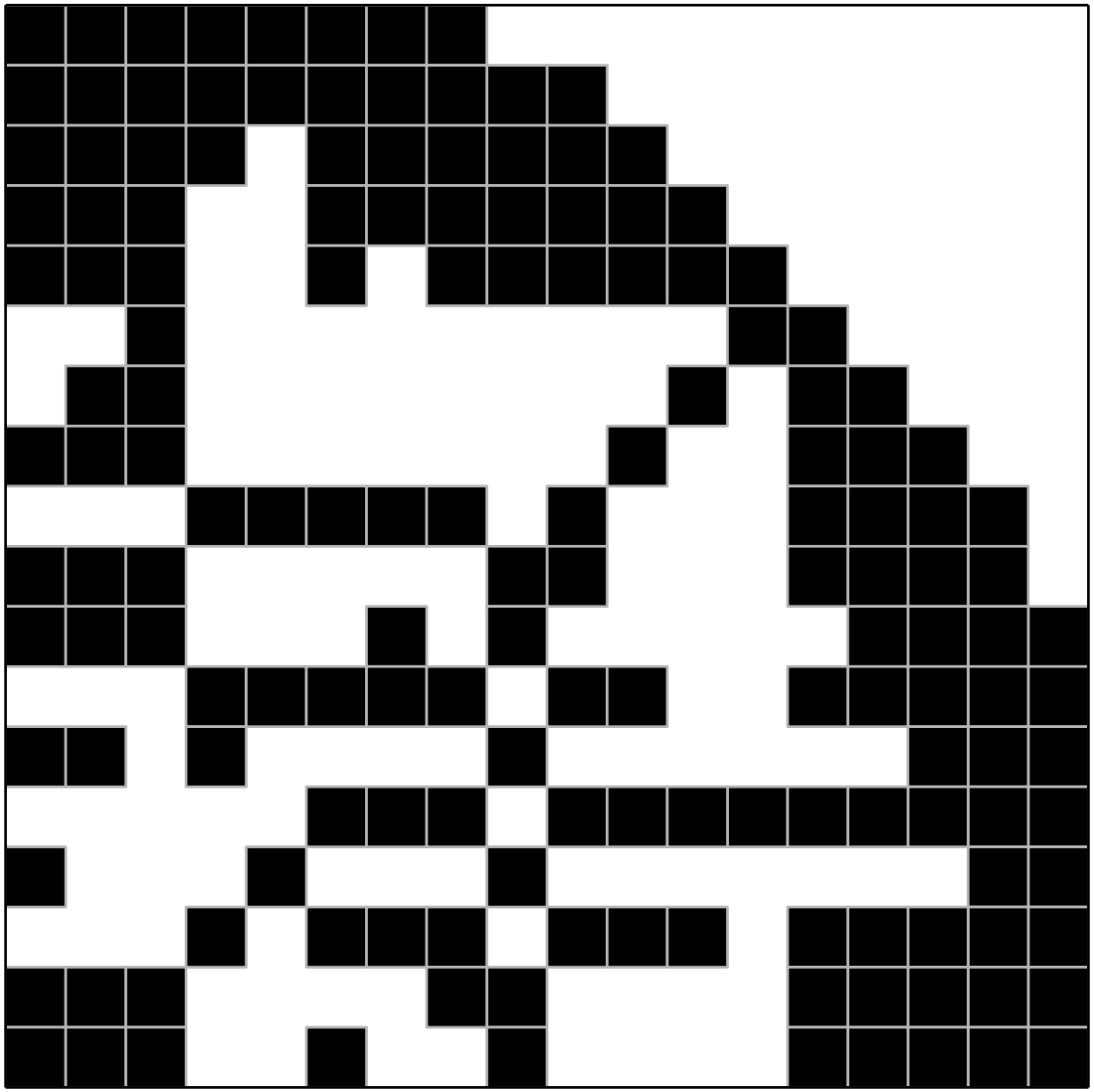
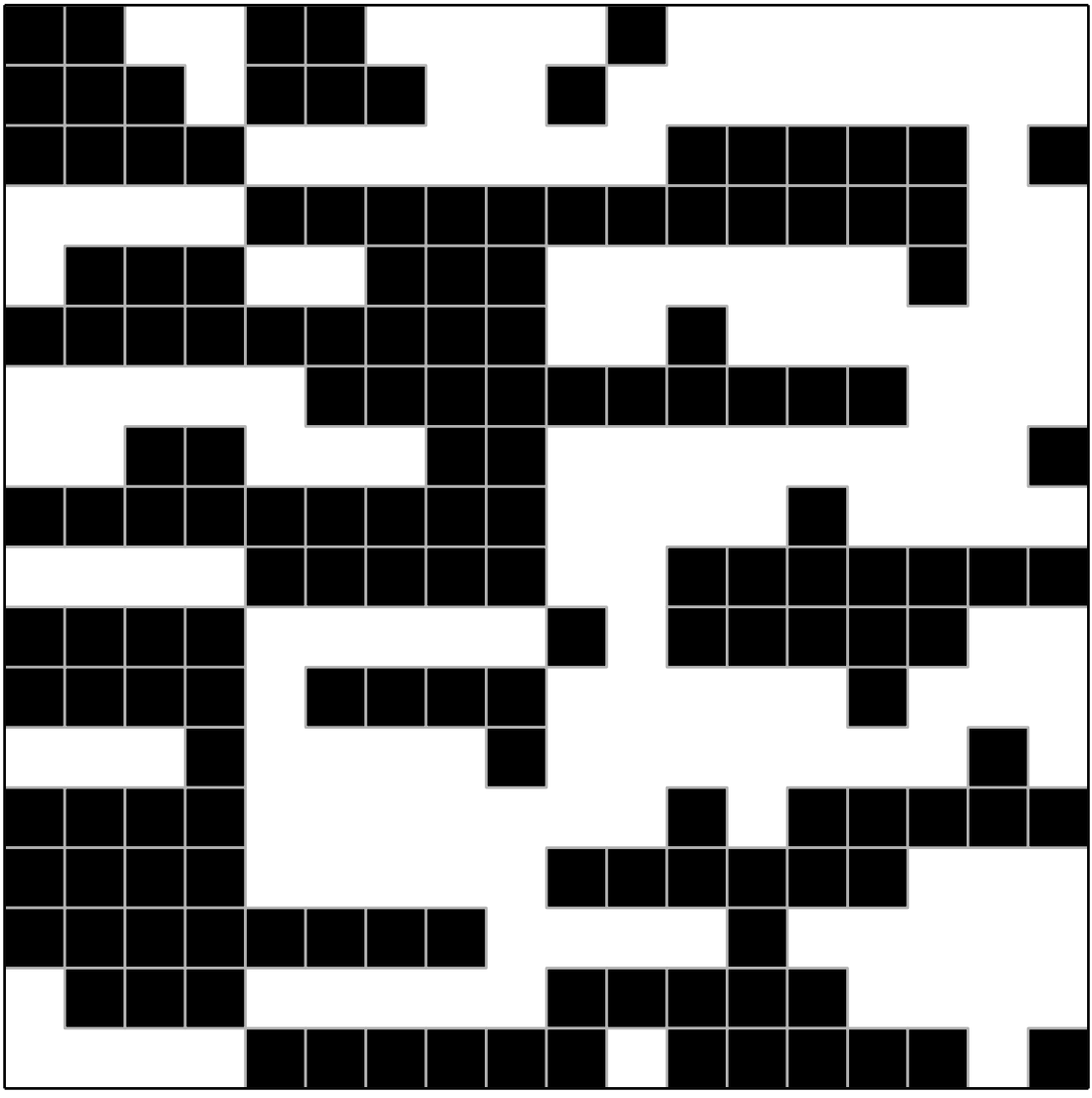
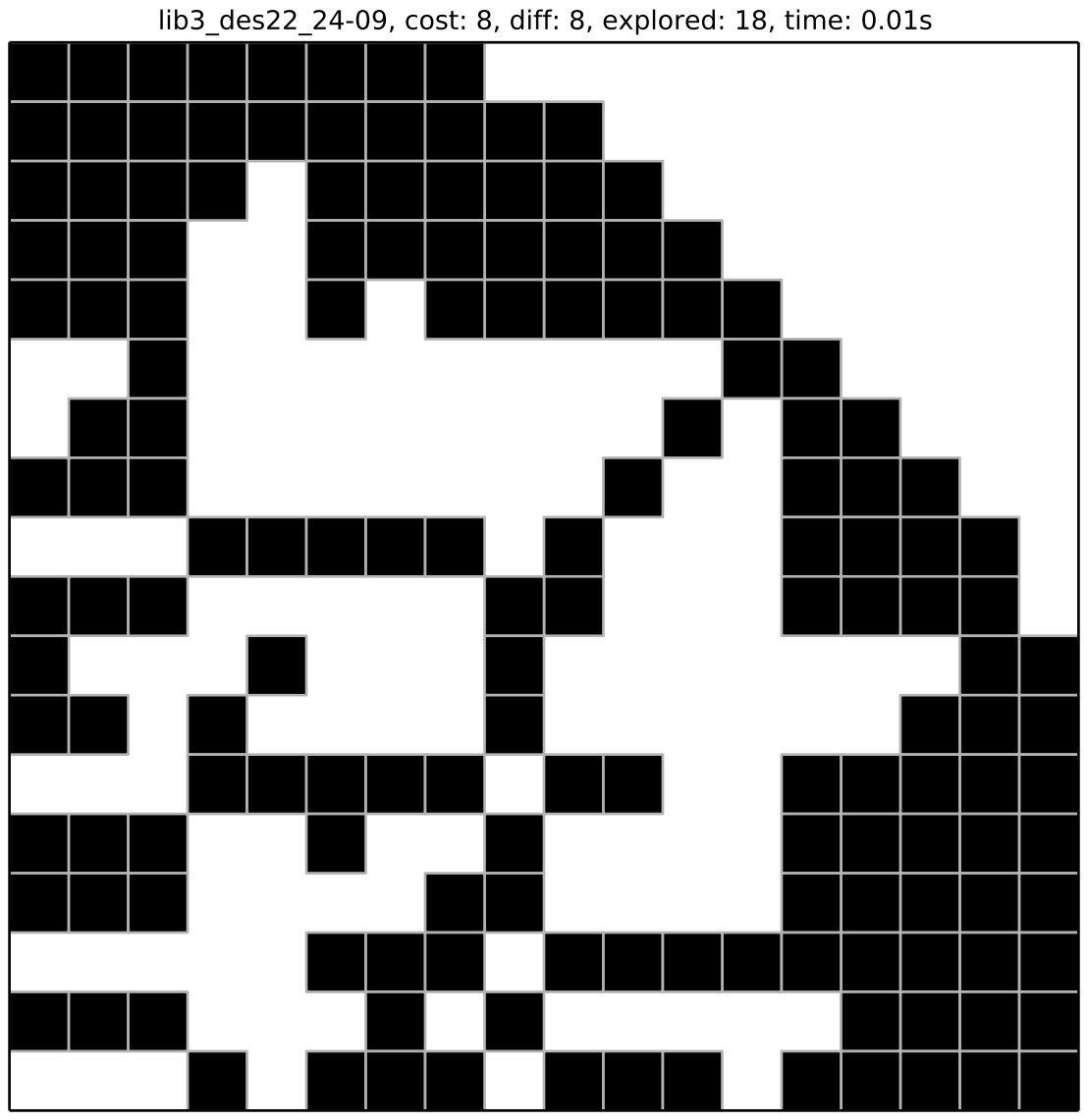


lib3_des22_24-09 18x18 (159) con: 9, var: 9

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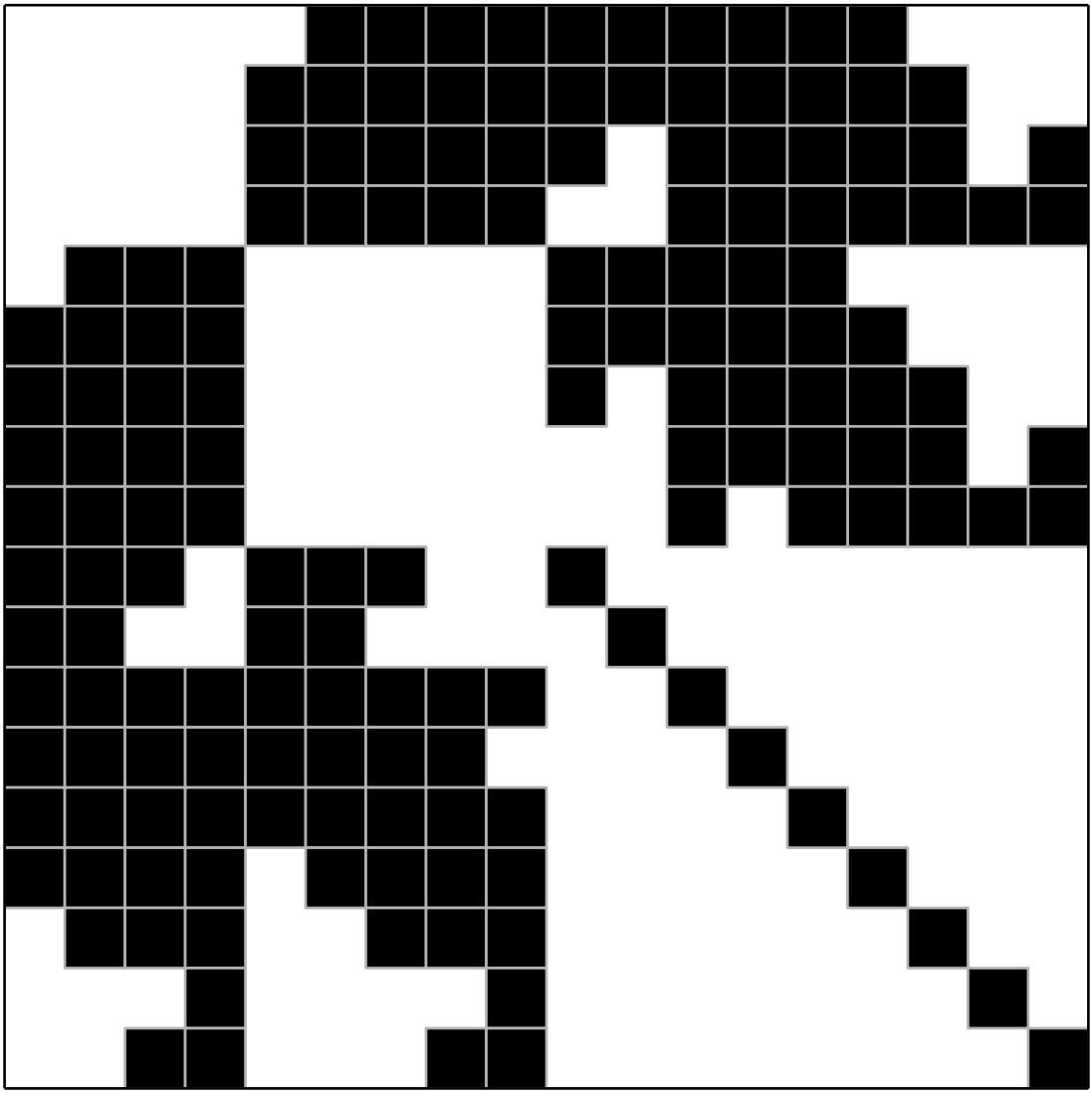
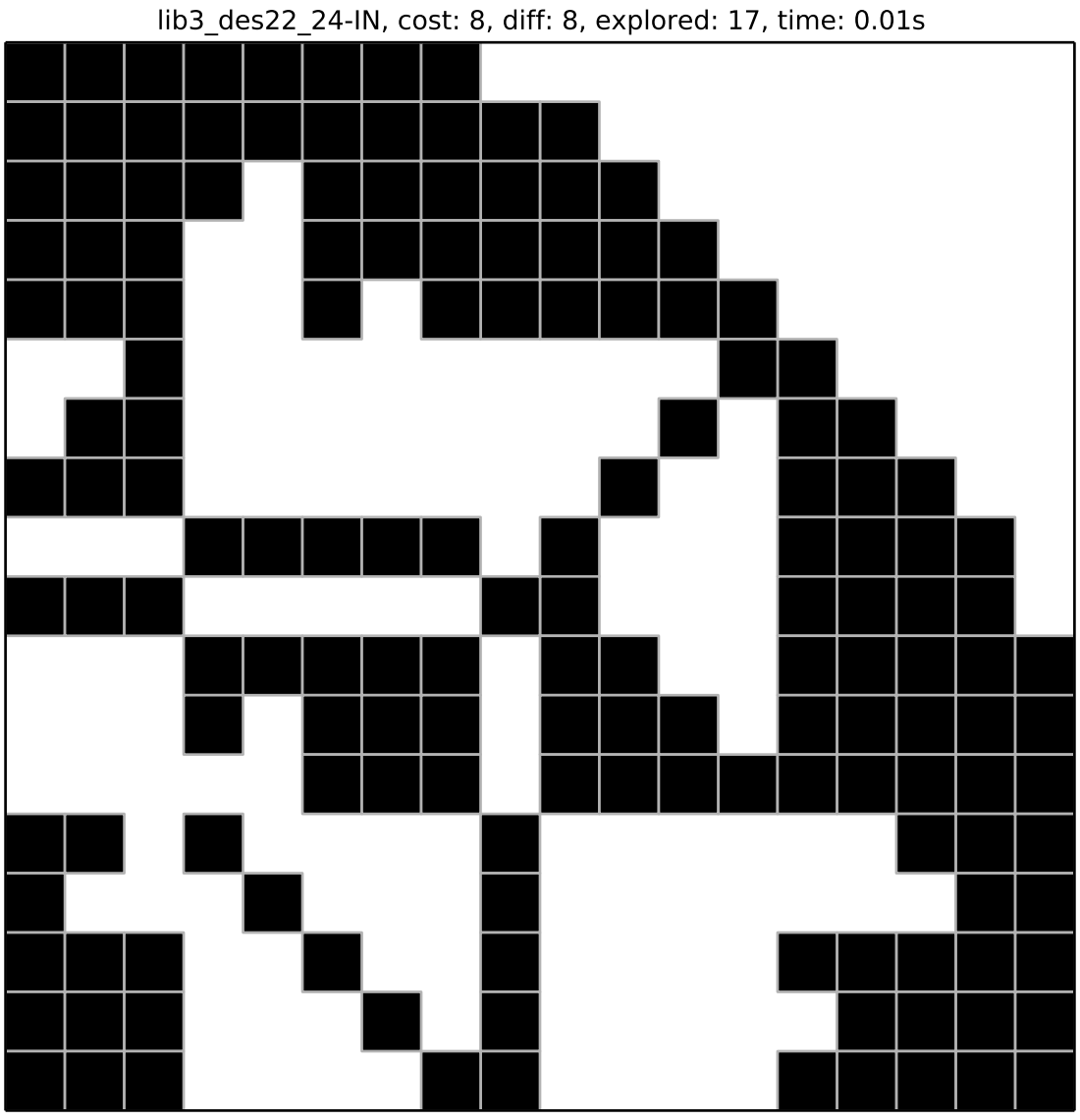
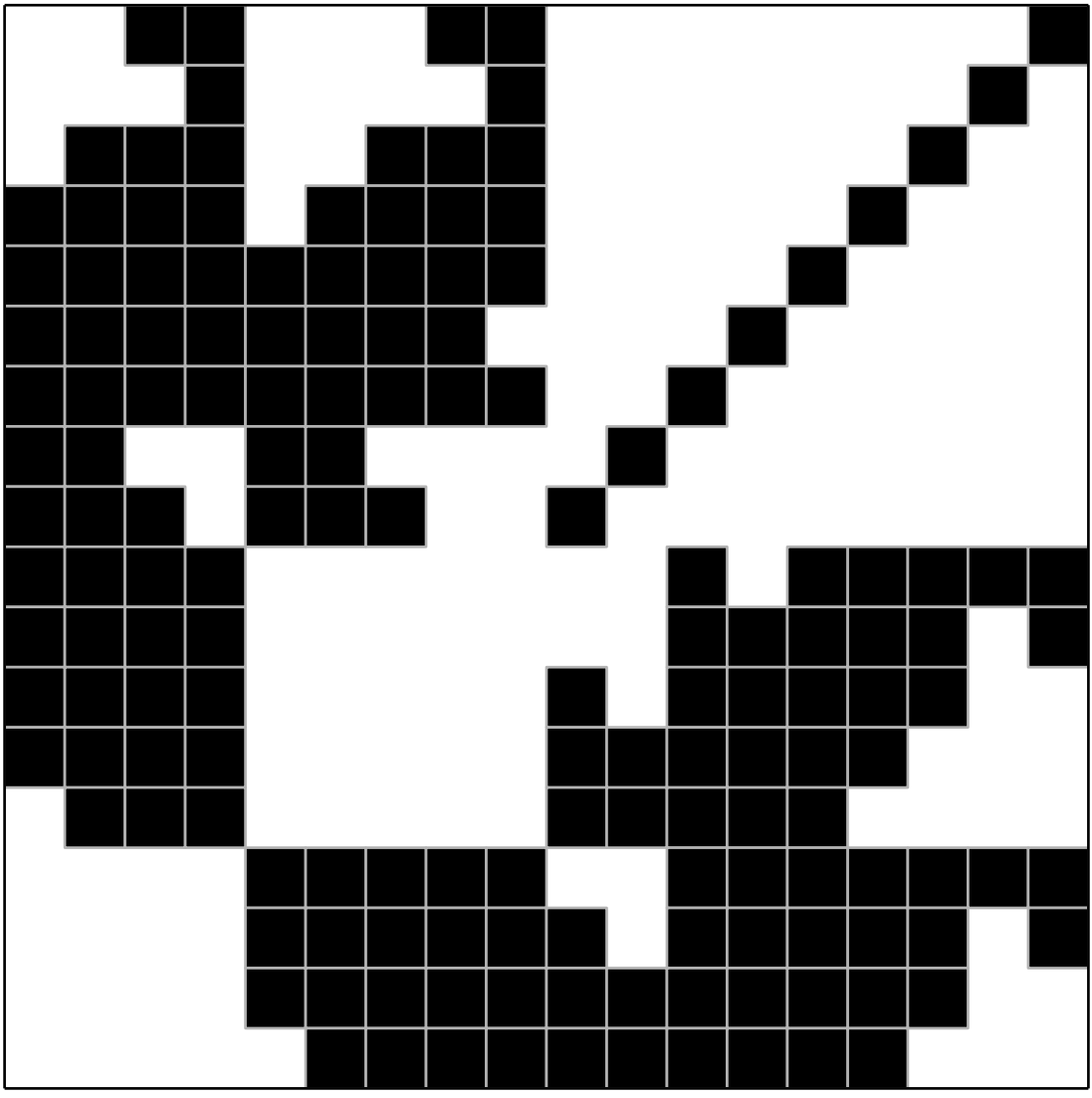
lib3_des22_24-IN 18x18 (159) con: 9, var: 9




lib3_des22_24-IN, cost: 8, diff: 8, explored: 17, time: 0.01s

lib3_des22_24-RE 18x18 (159) con: 9, var: 9



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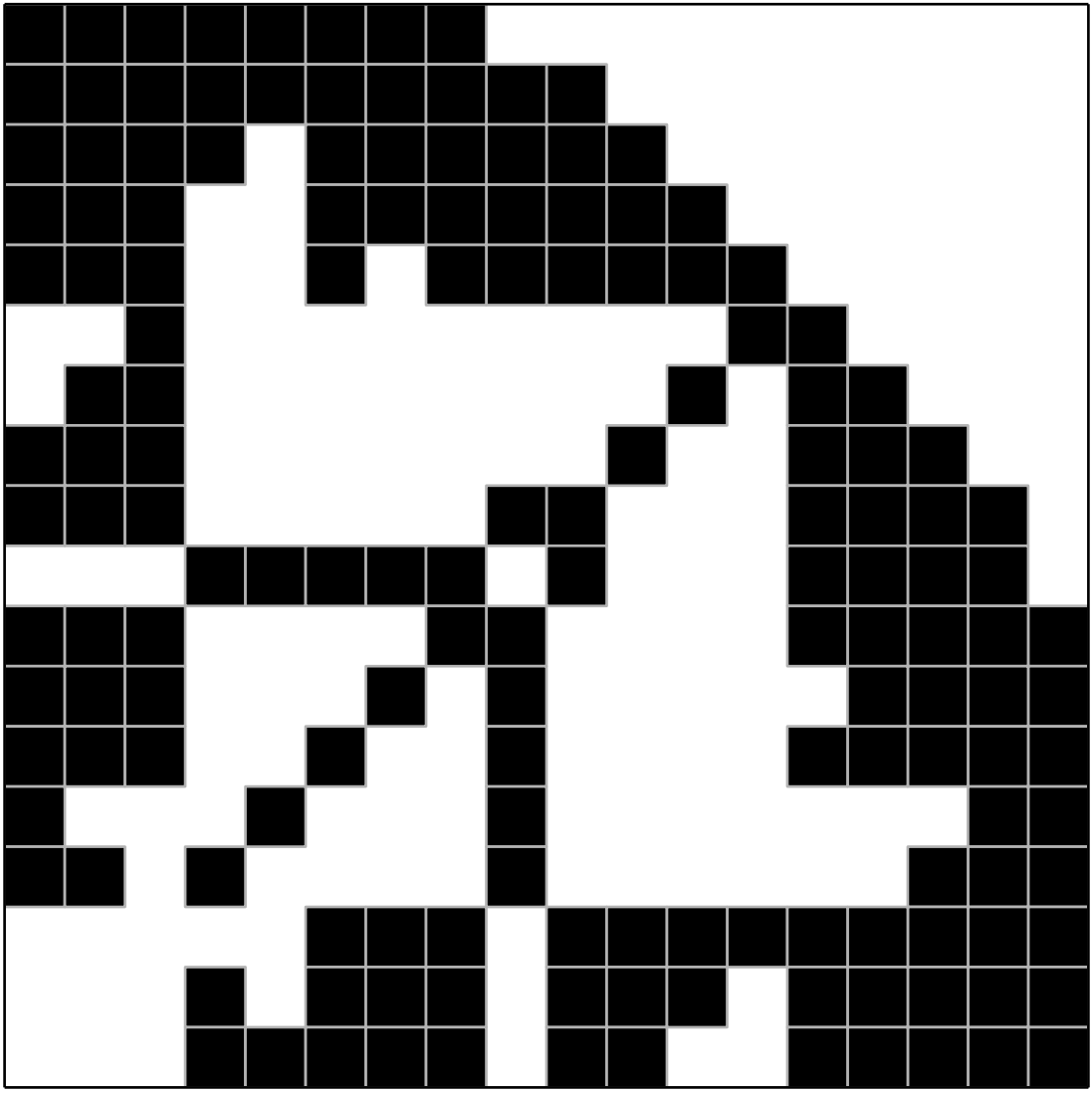
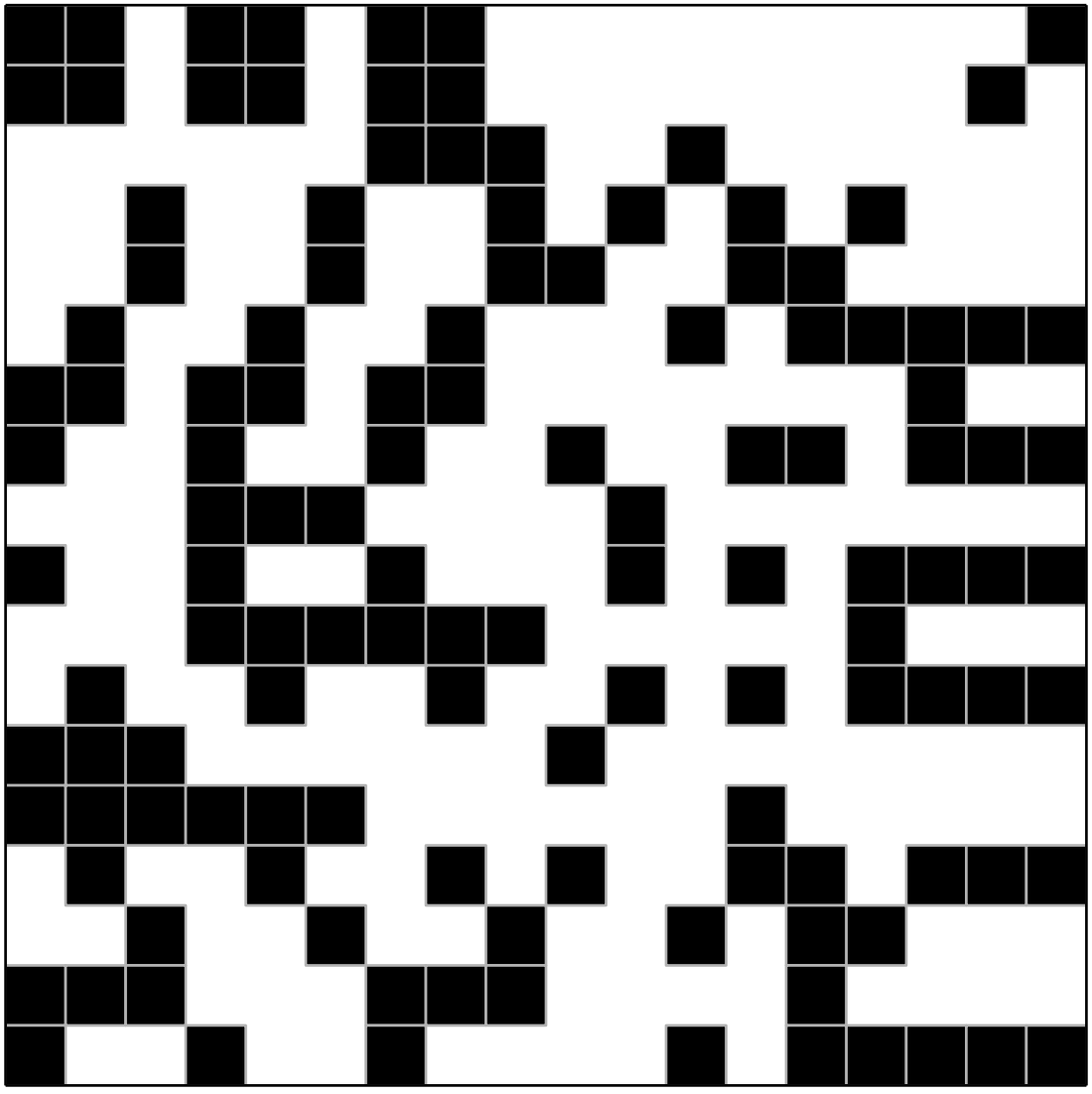
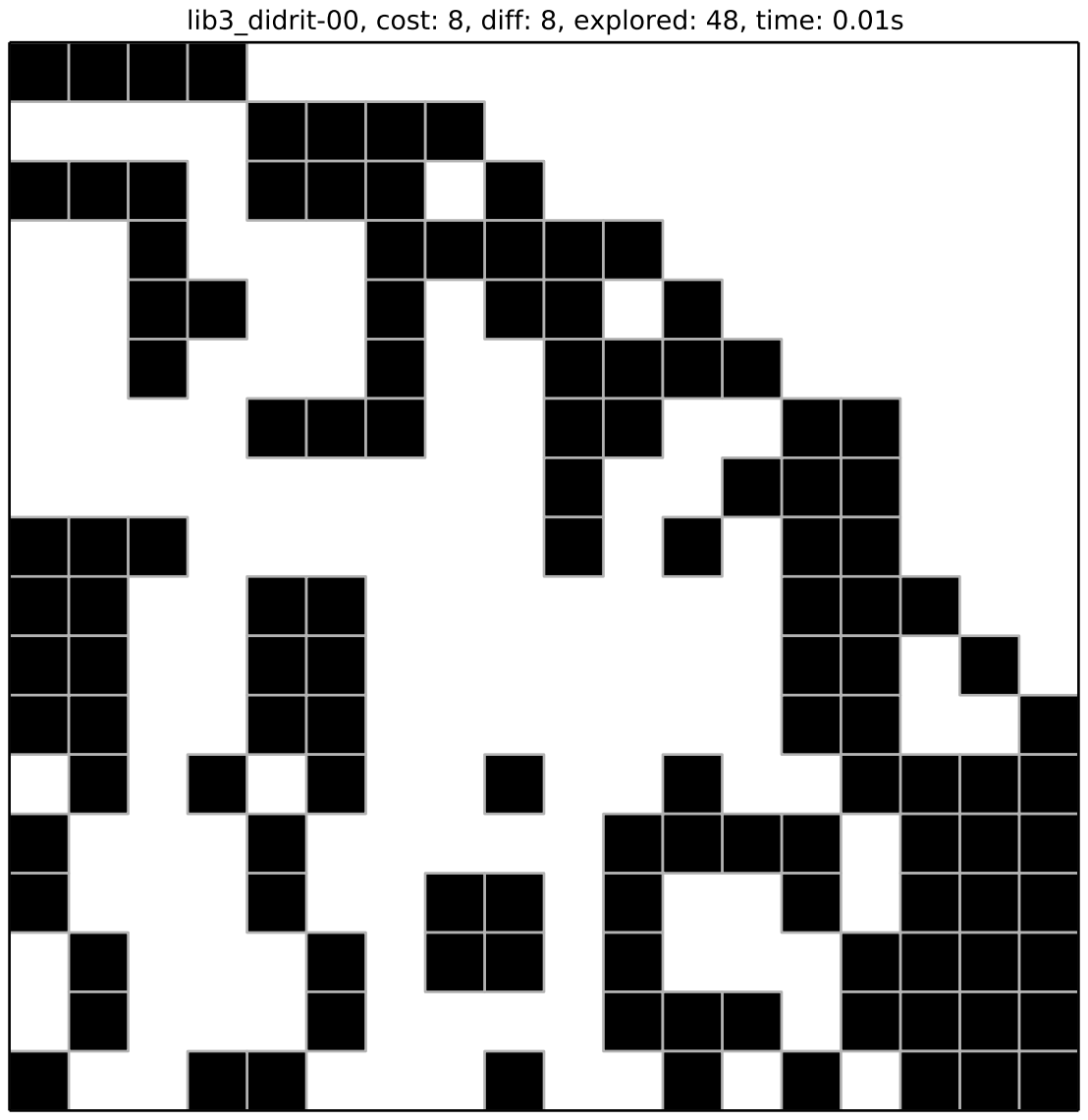
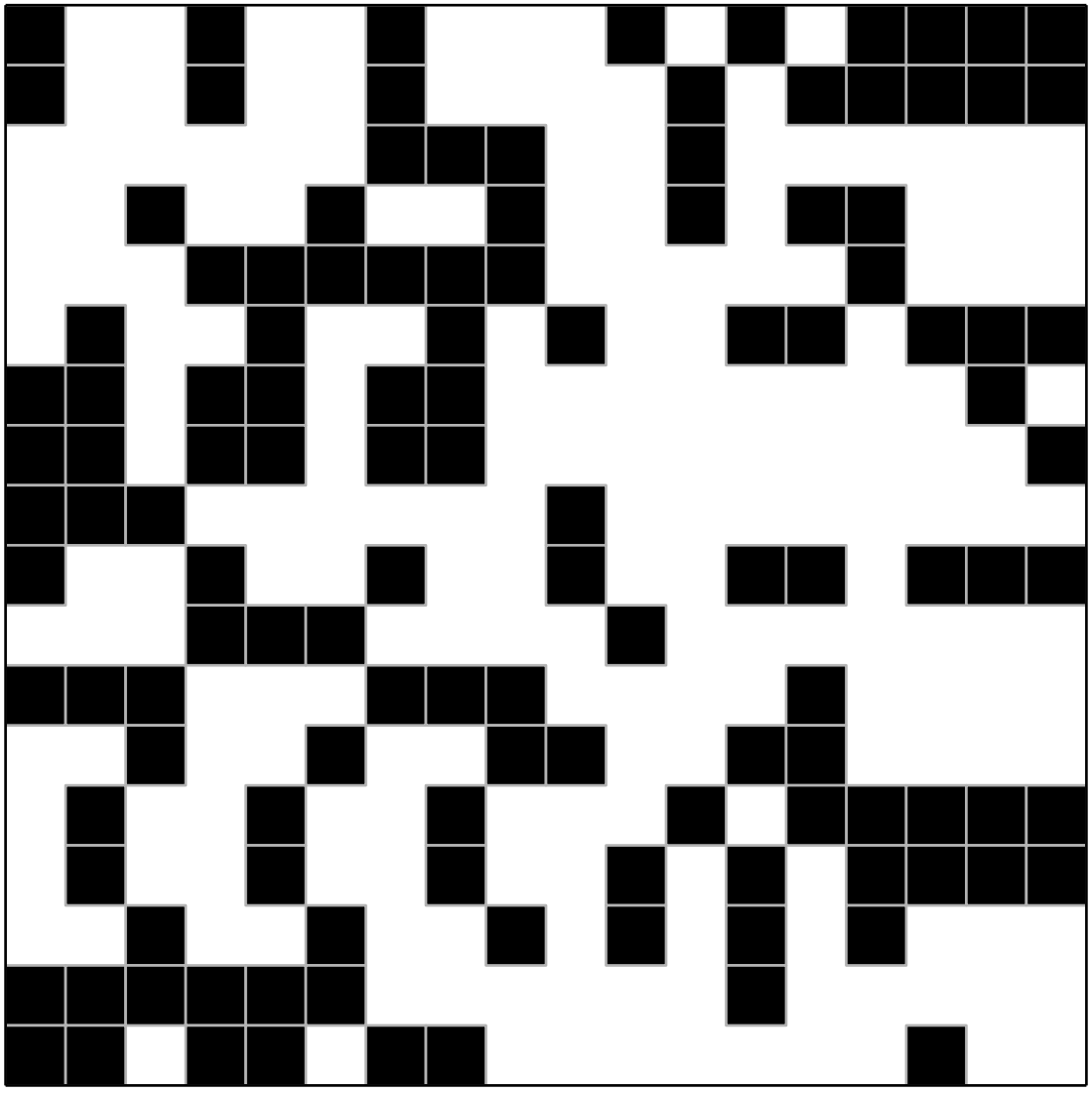


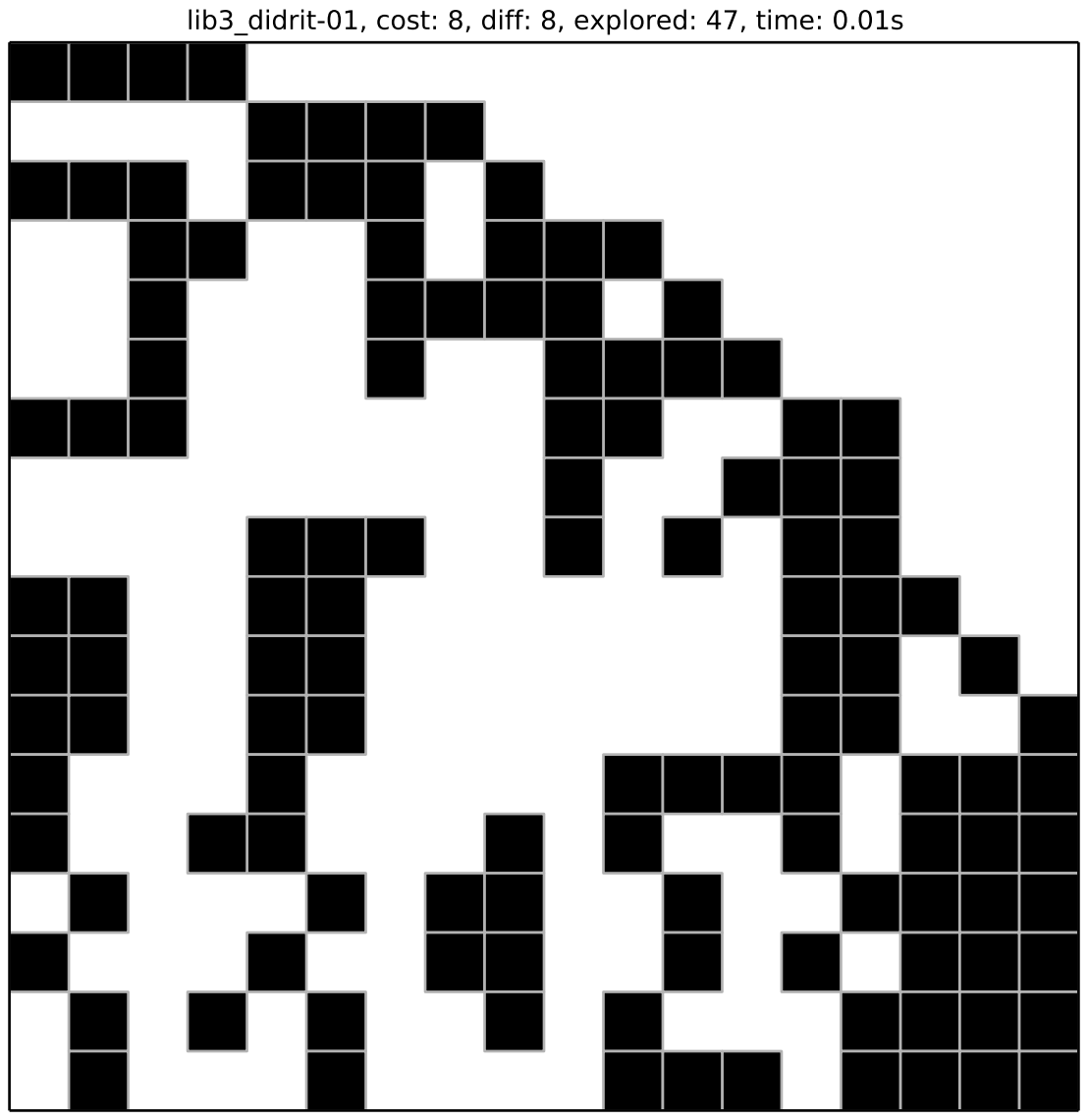
lib3_didrit-00 18x18 (126) con: 9, var: 9




lib3_didrit-00, cost: 8, diff: 8, explored: 48, time: 0.01s

lib3_didrit-01 18x18 (126) con: 9, var: 9

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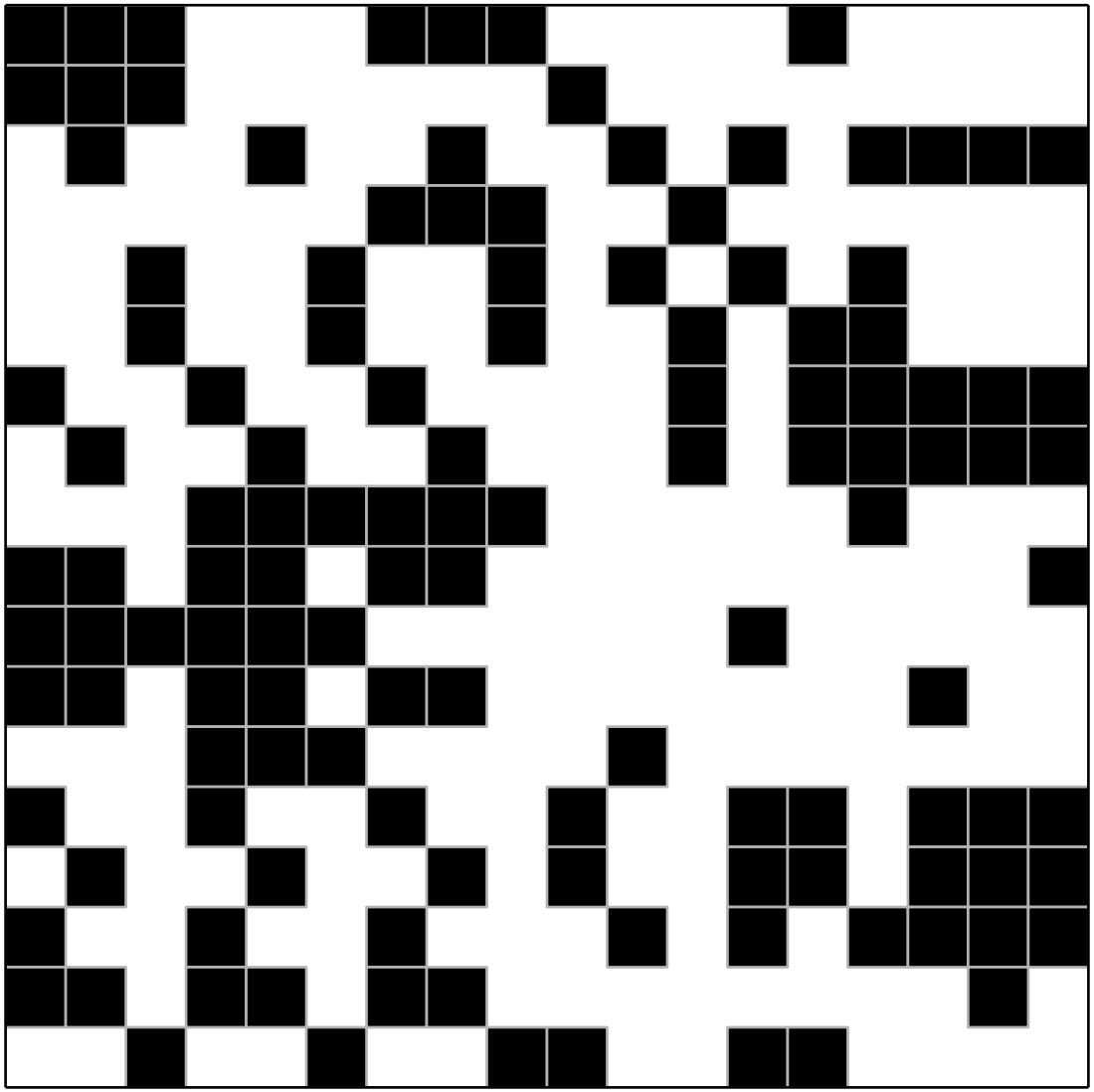
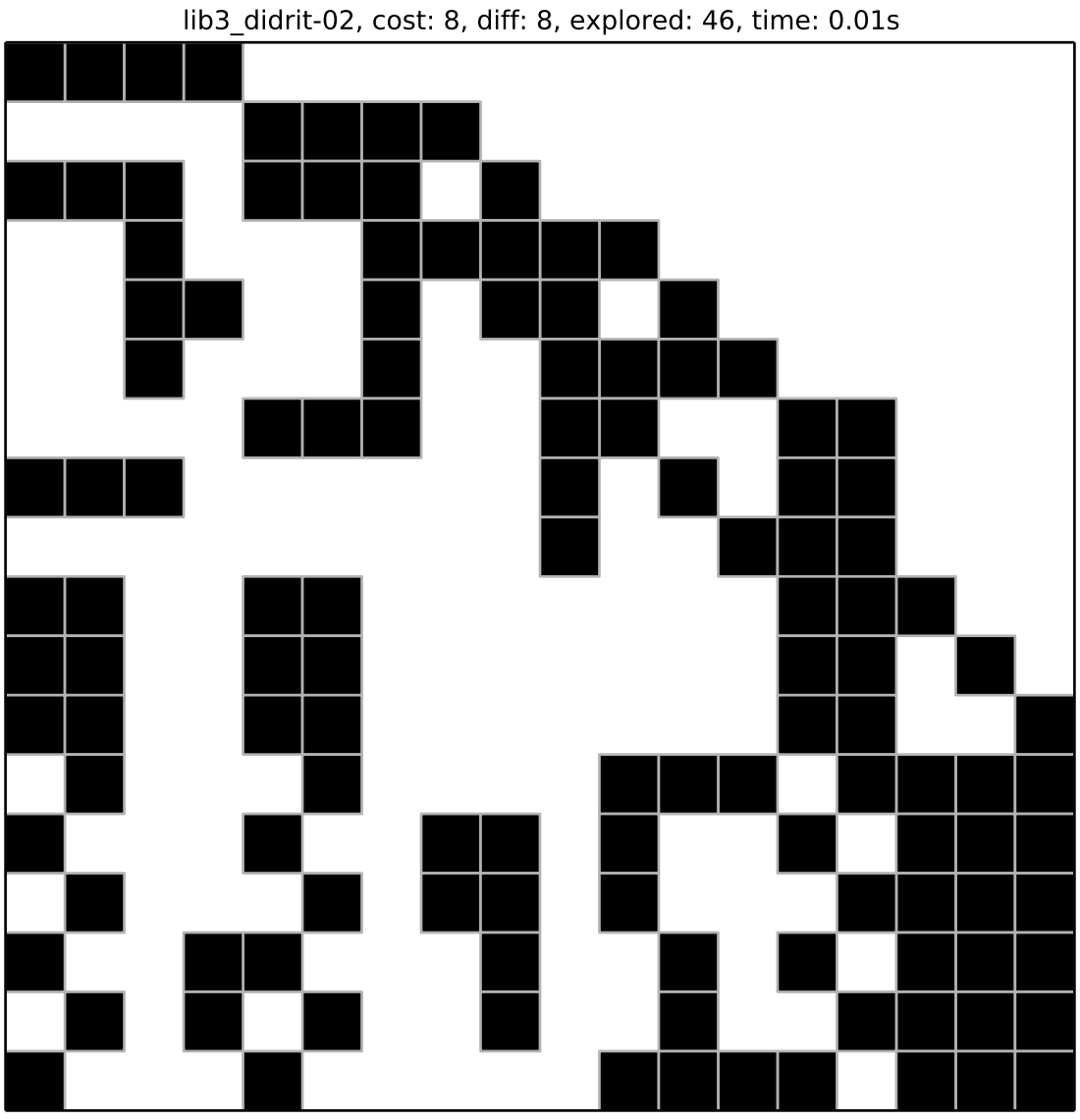
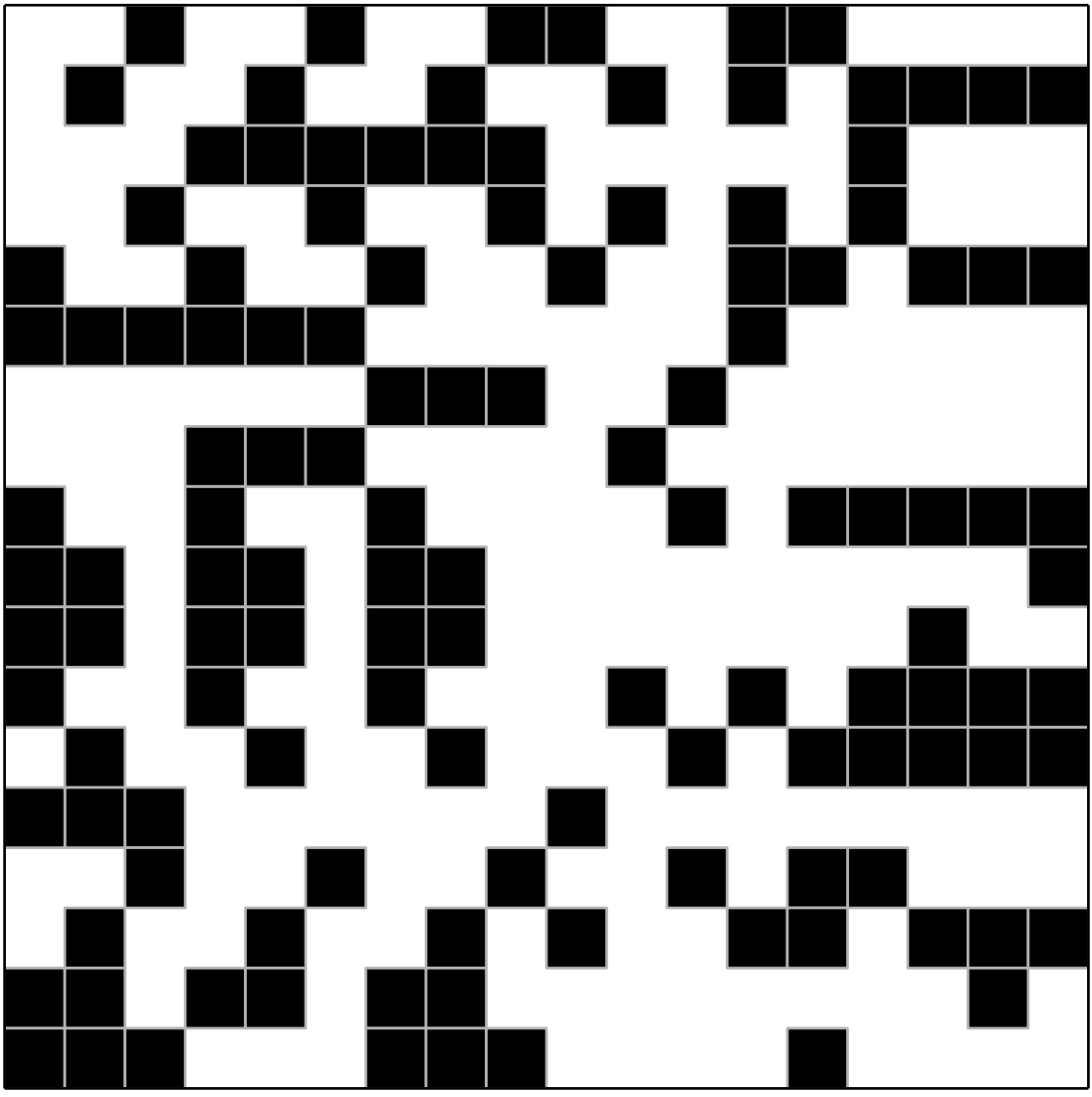
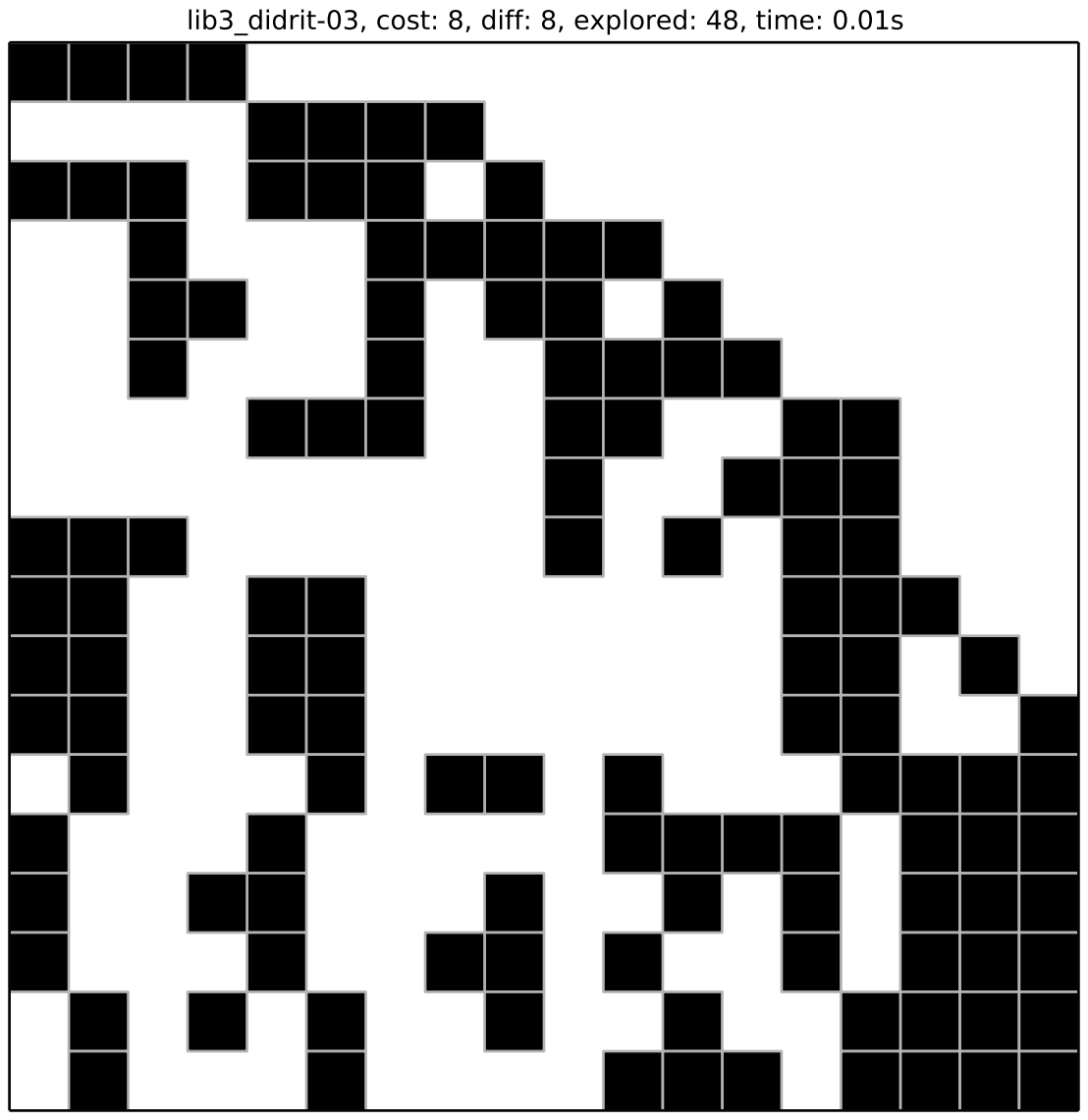
lib3_didrit-02 18x18 (126) con: 9, var: 9




lib3_didrit-02, cost: 8, diff: 8, explored: 46, time: 0.01s

lib3_didrit-03 18x18 (126) con: 9, var: 9

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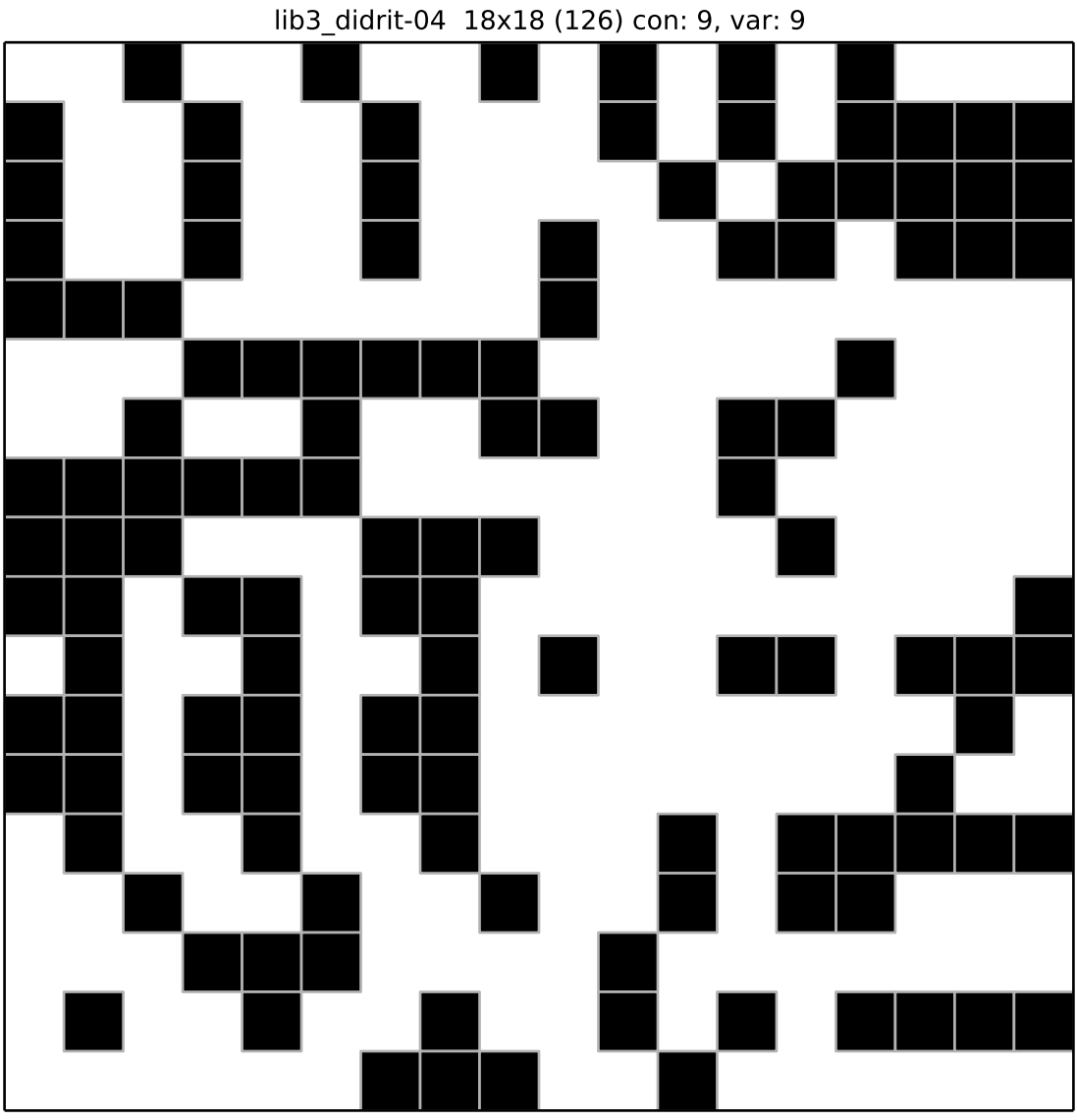
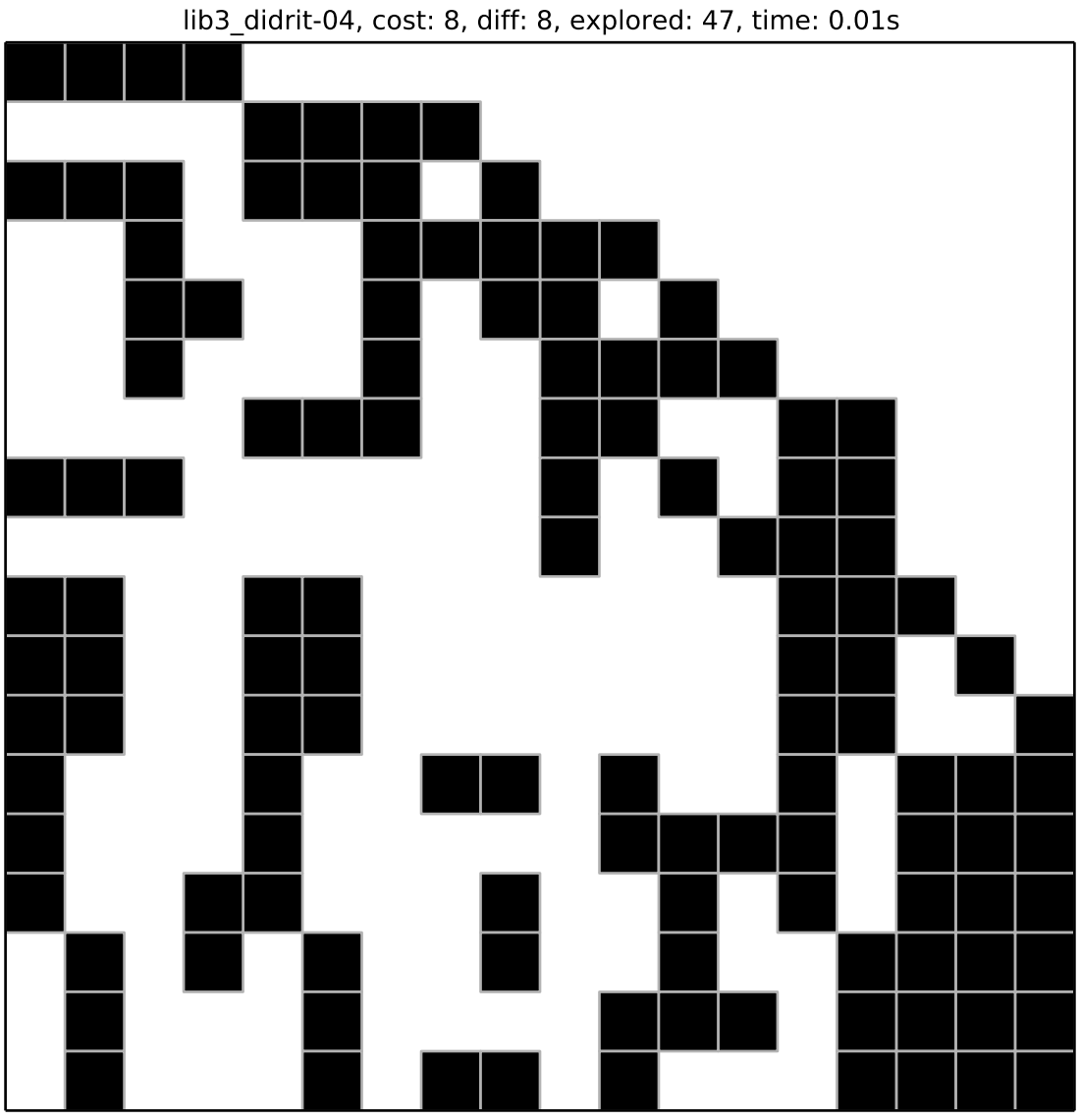

lib3_didrit-04 18x18 (126) con: 9, var: 9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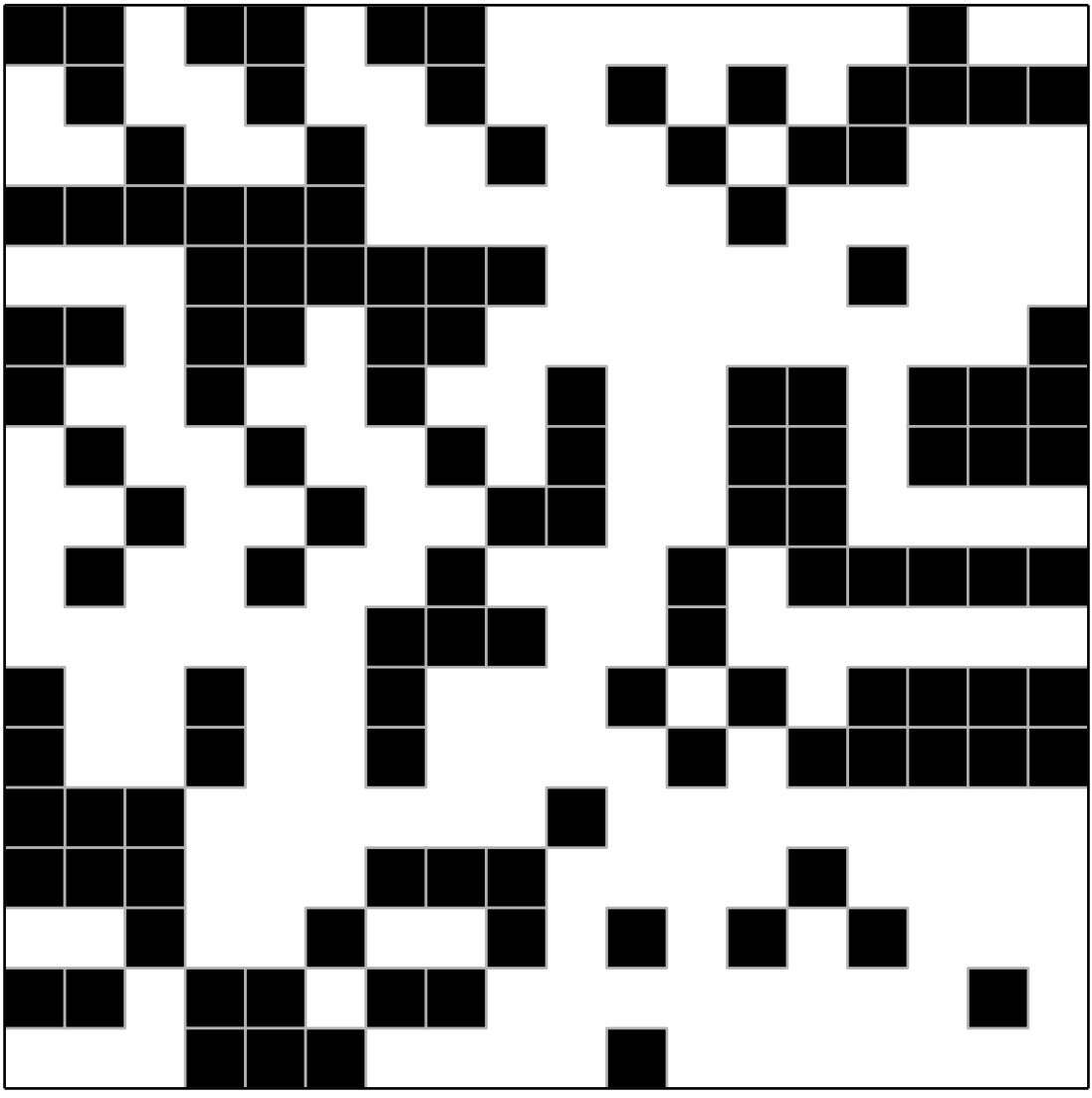

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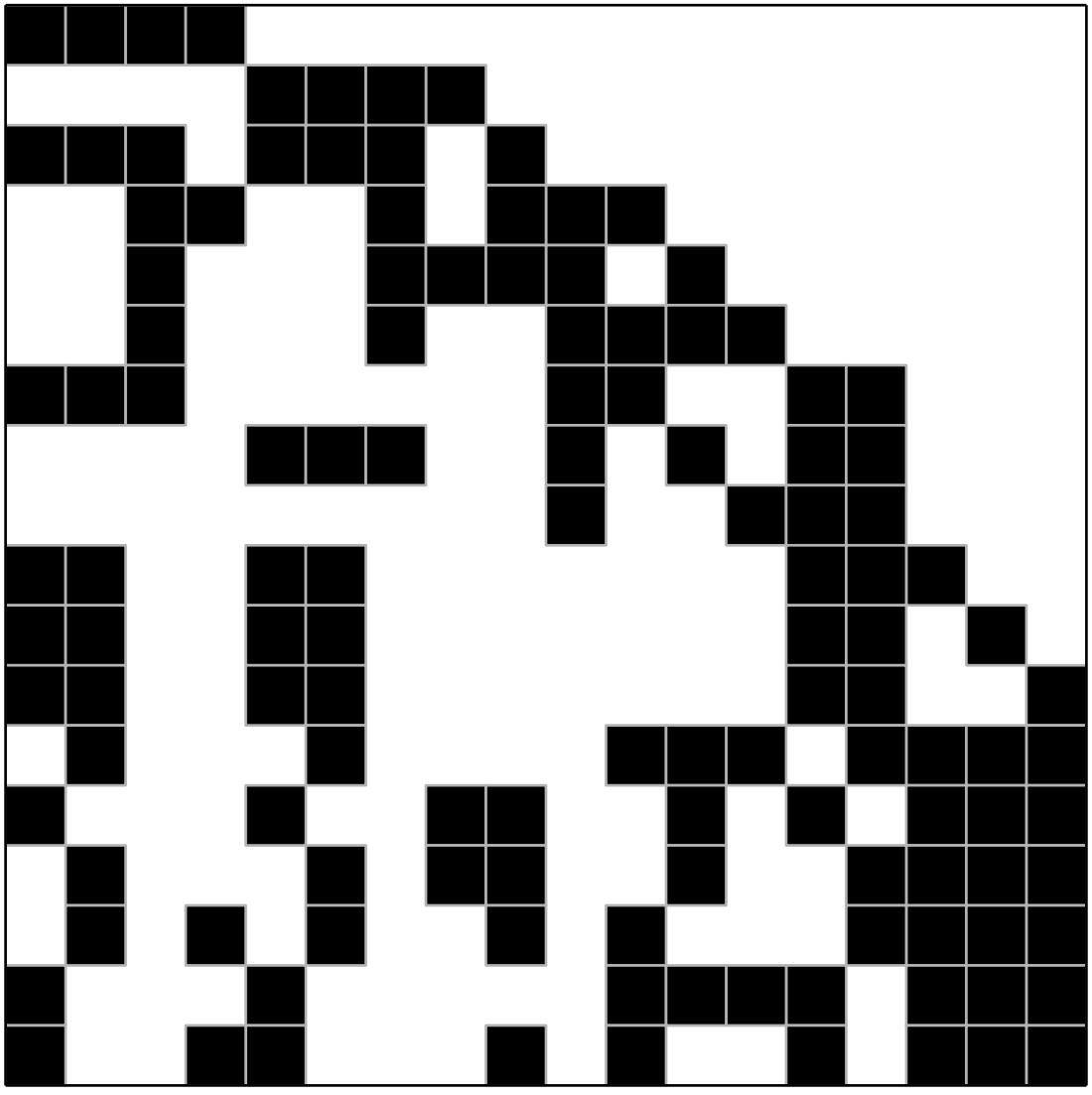

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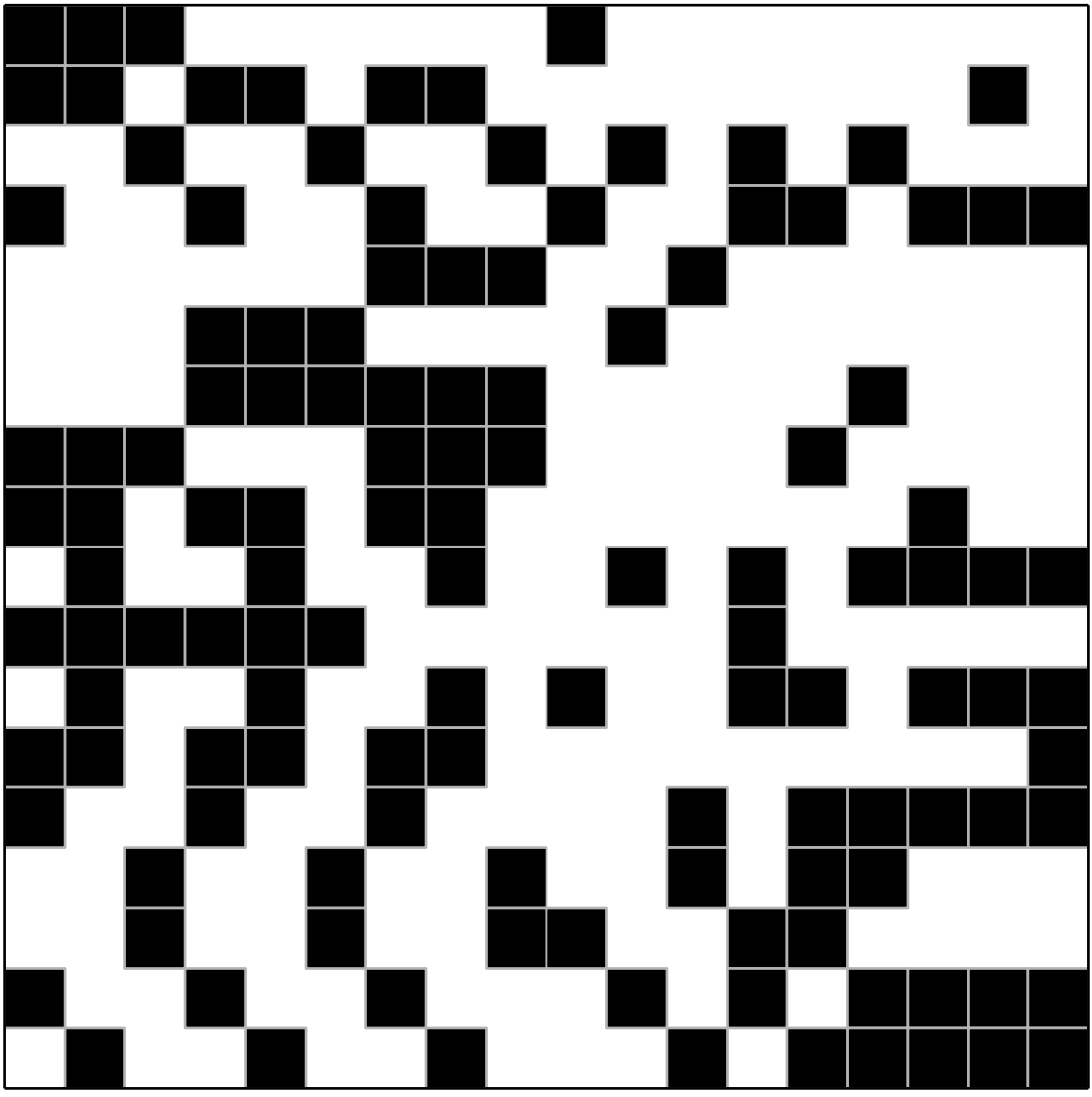

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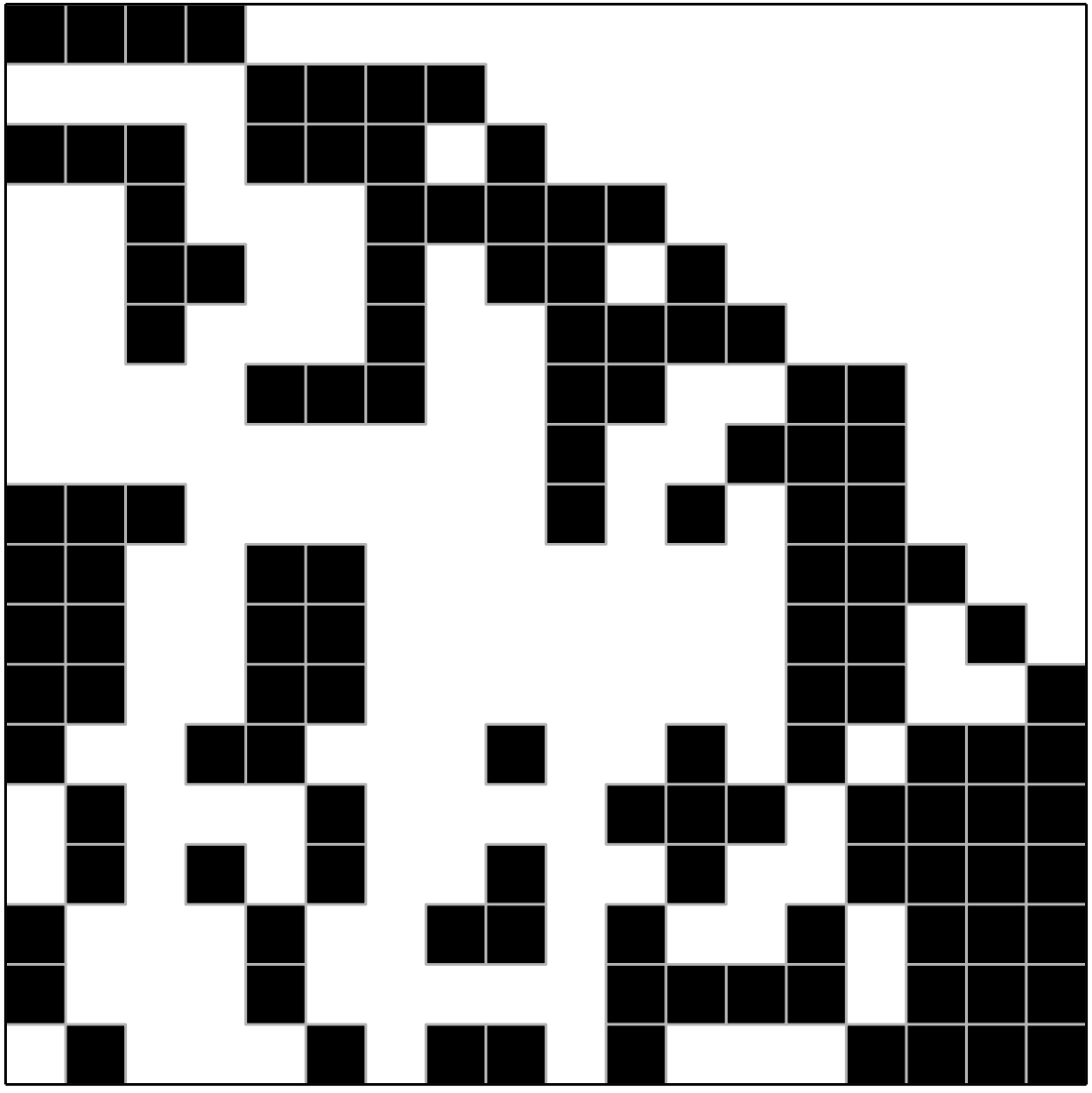

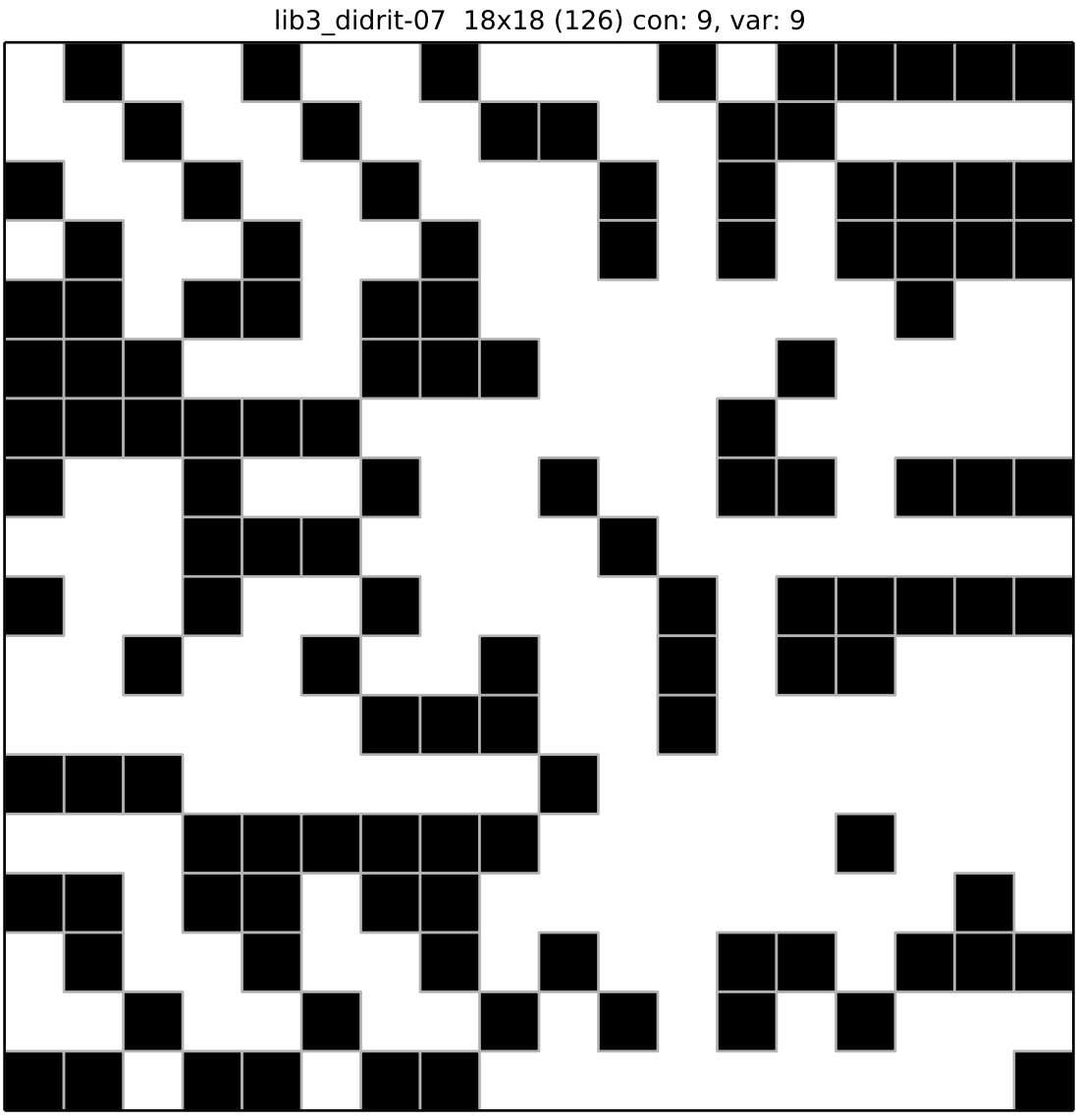
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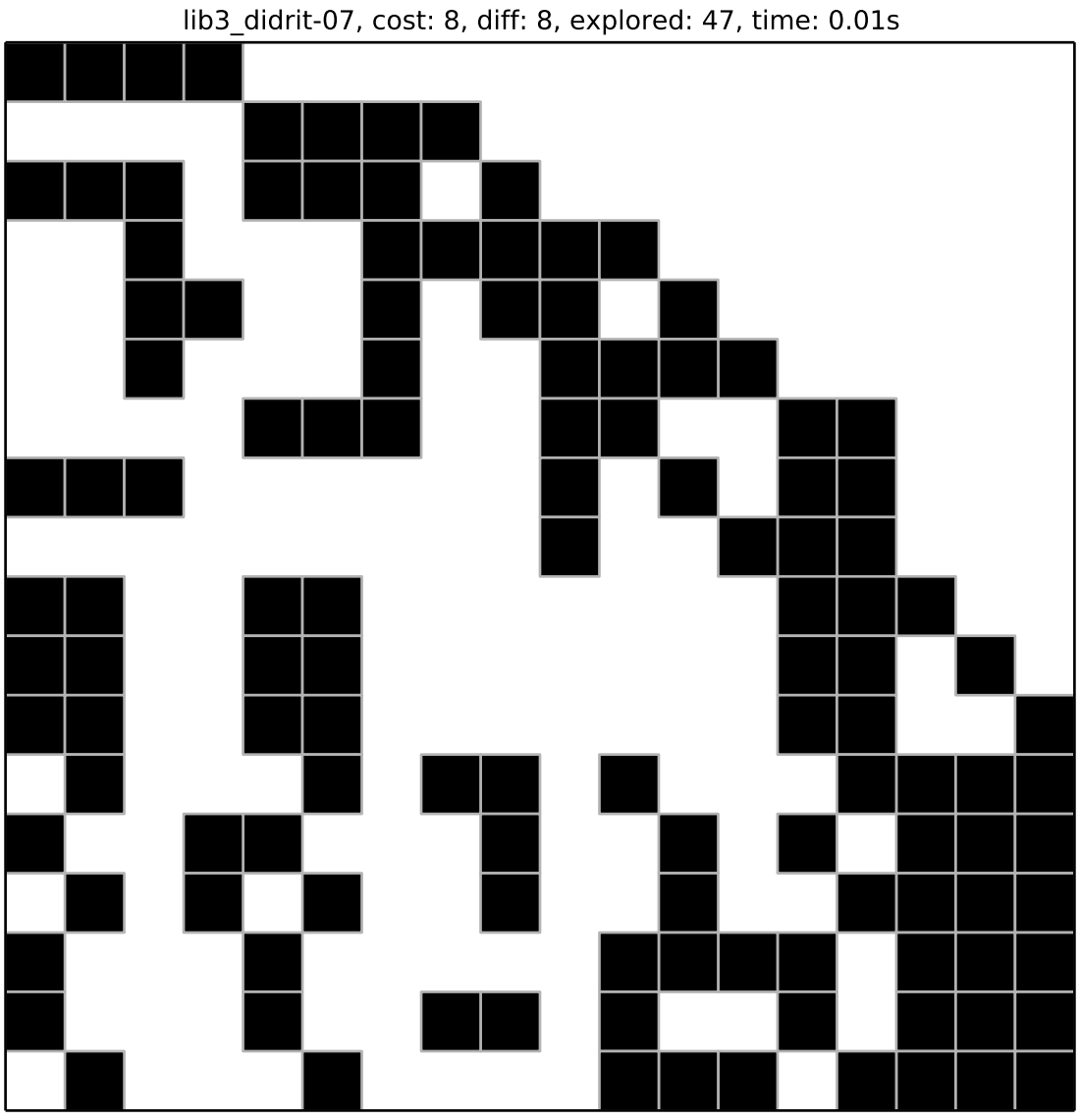
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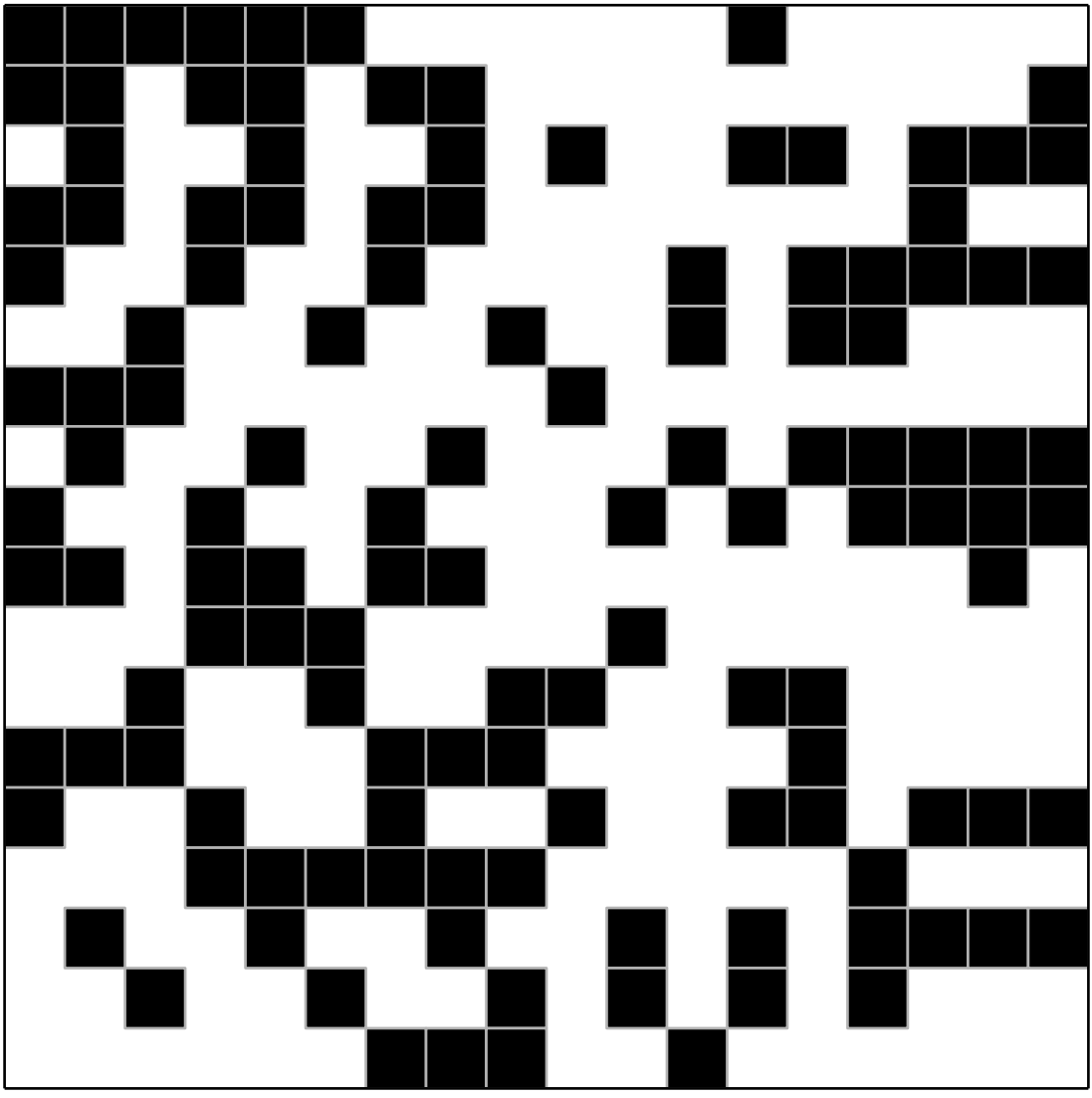
lib3_didrit-08 18x18 (126) con: 9, var: 9



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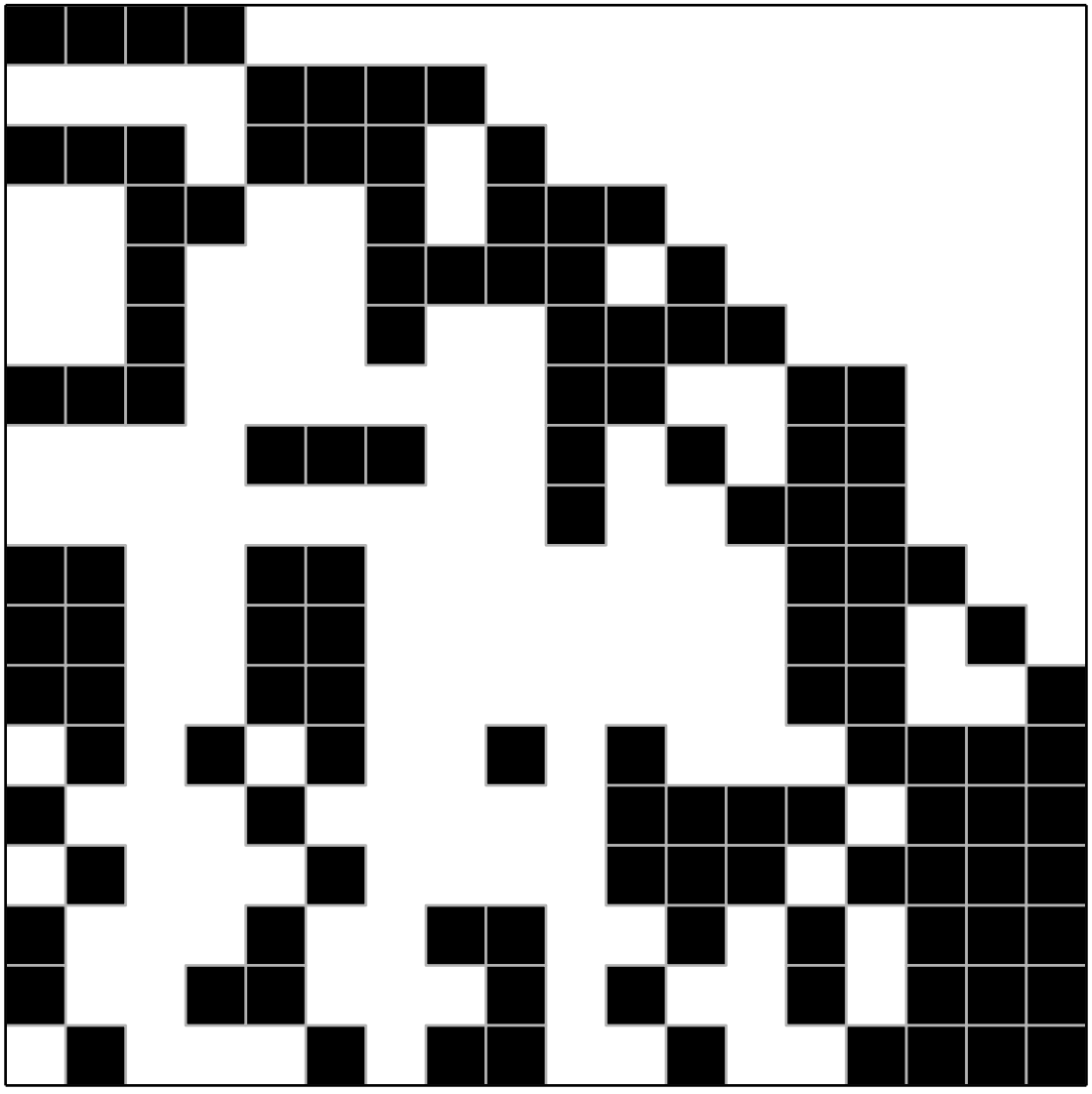

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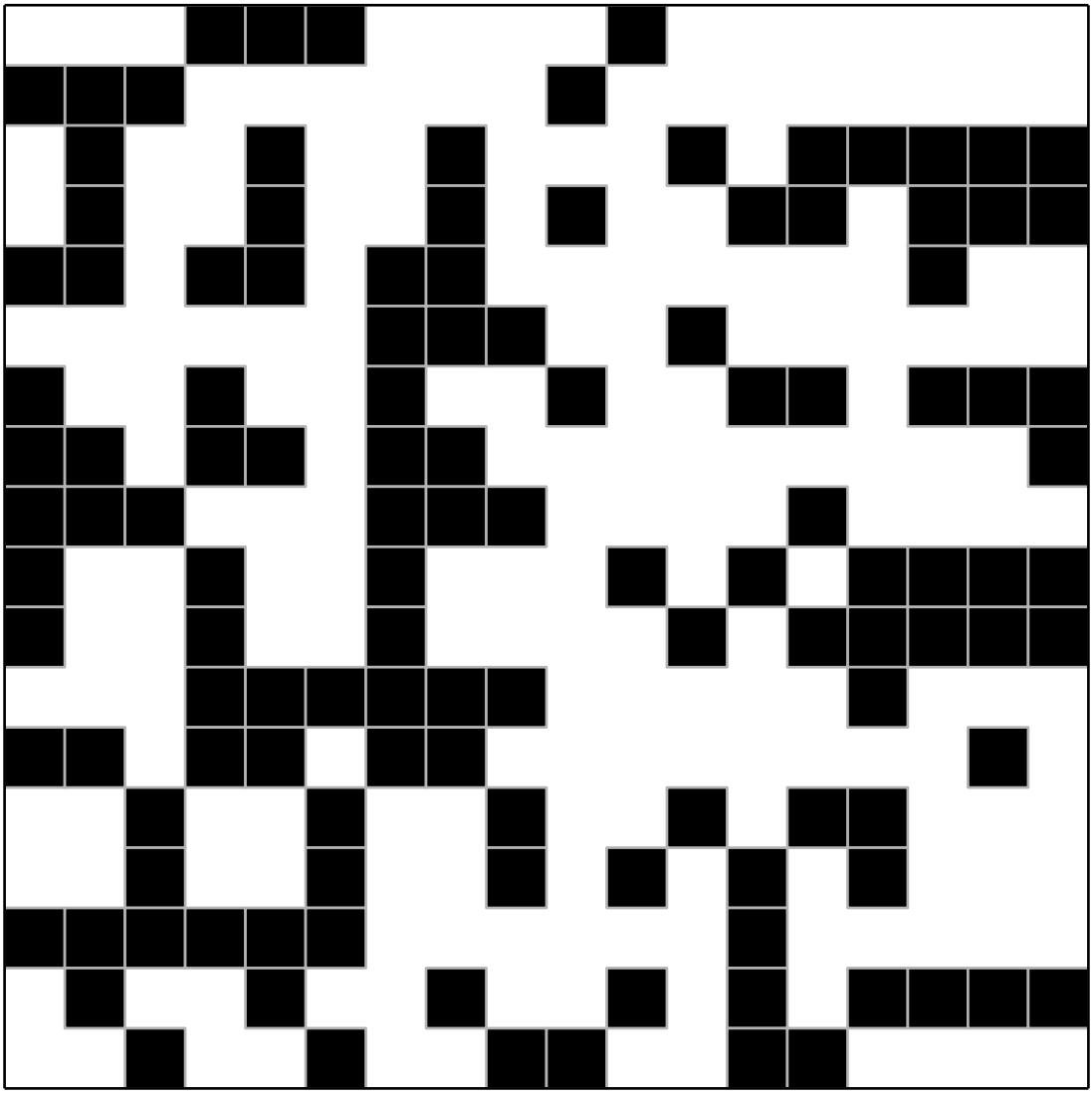

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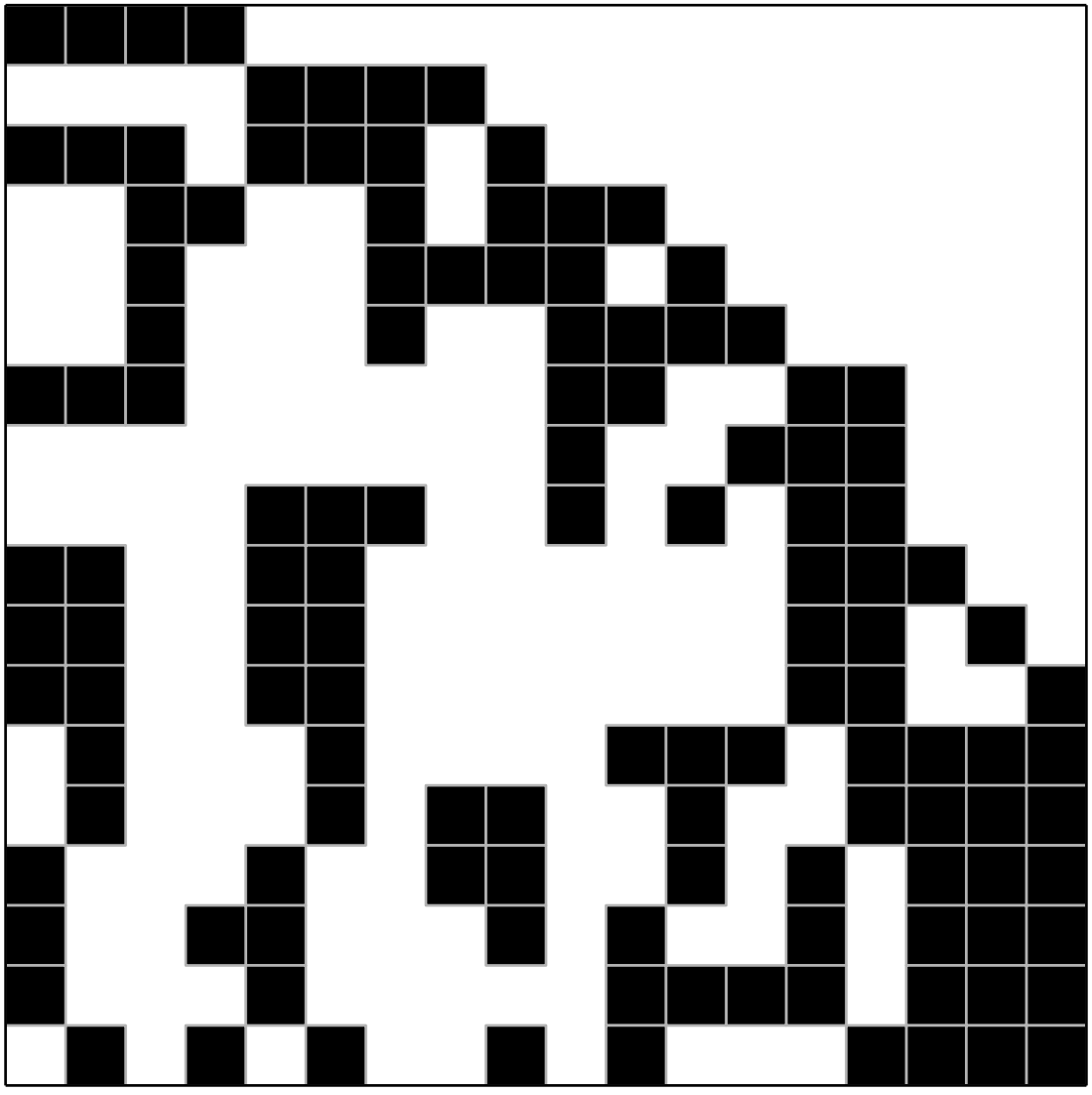
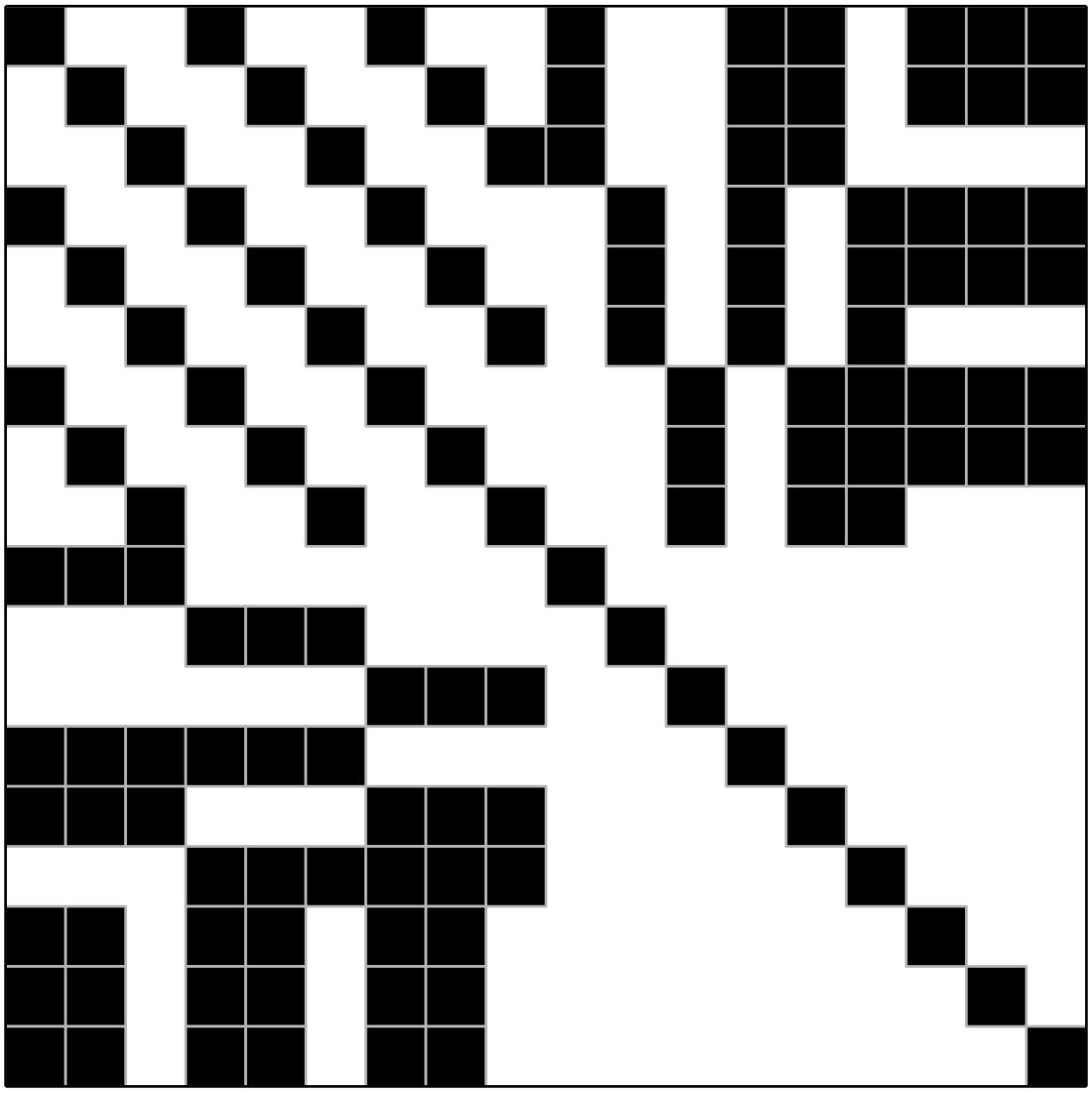
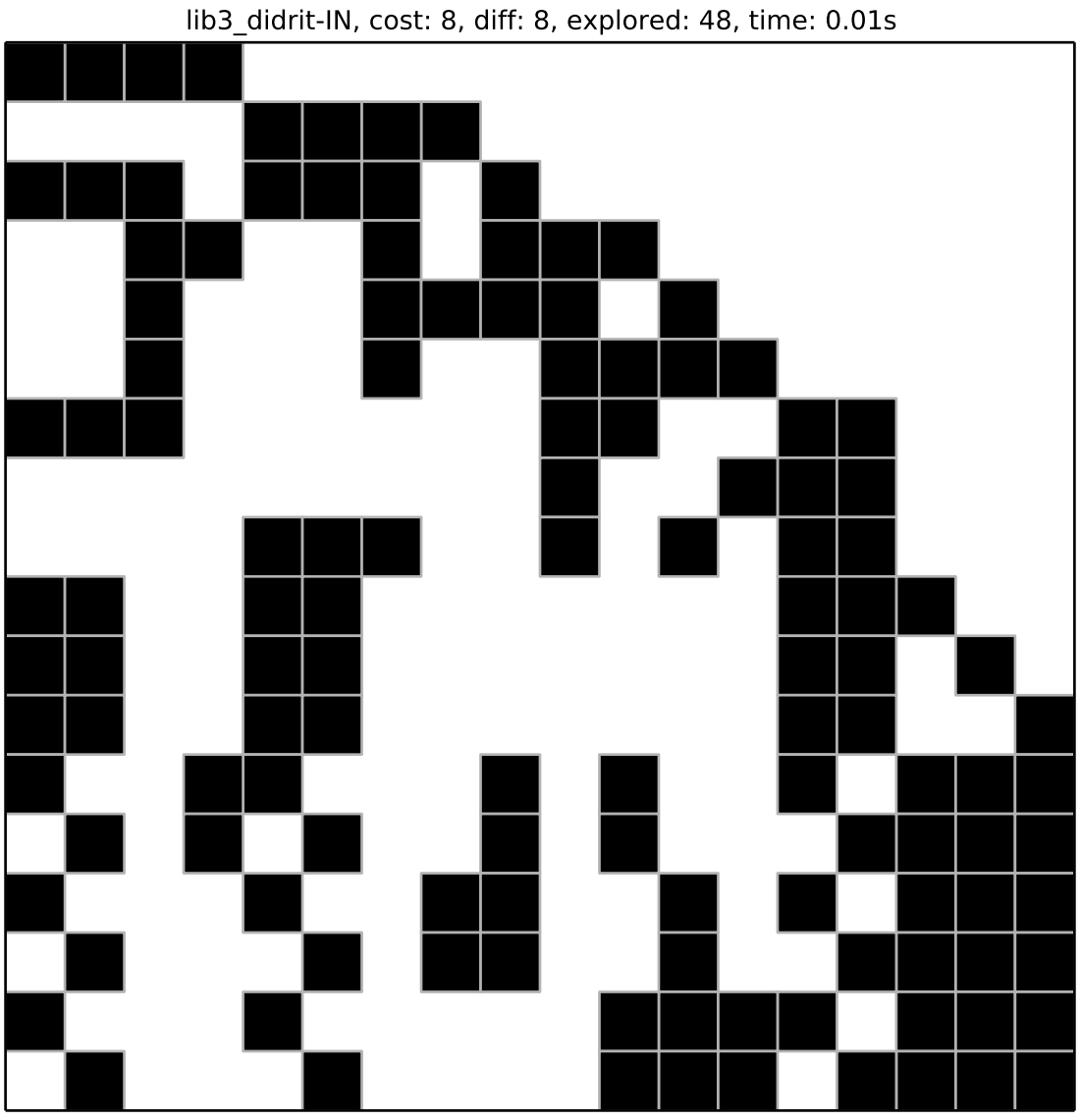



lib3_didrit-IN 18x18 (126) con: 9, var: 9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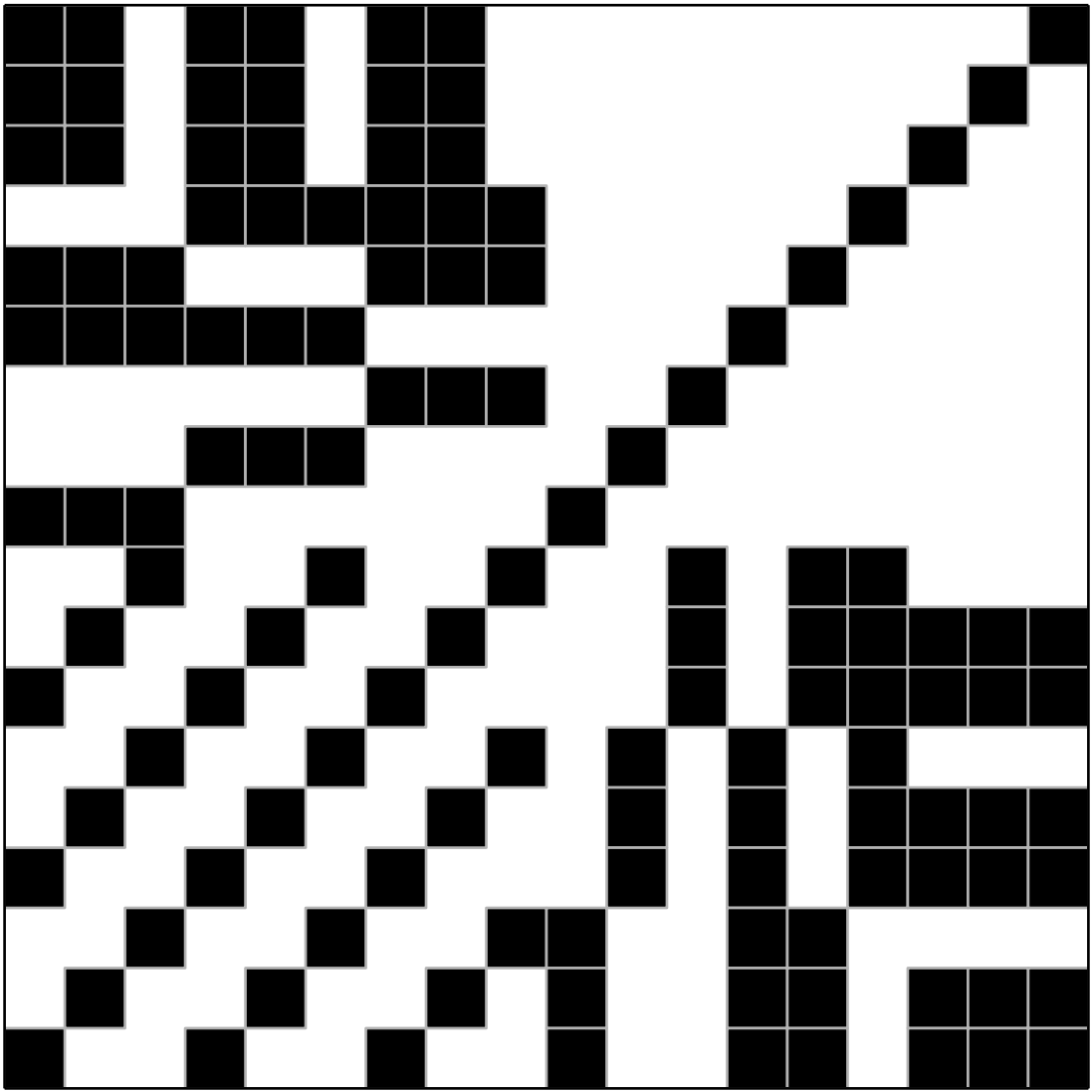

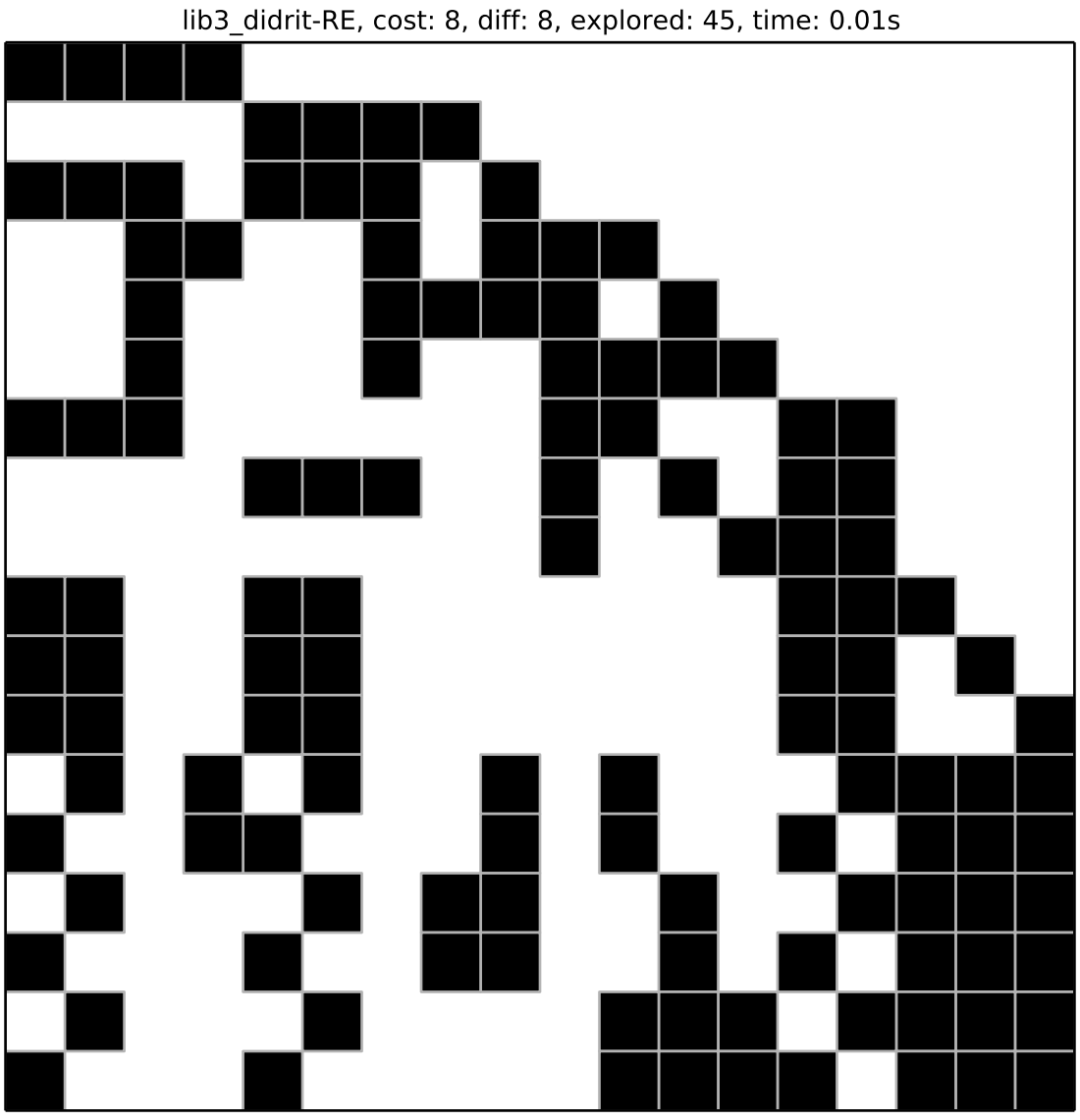
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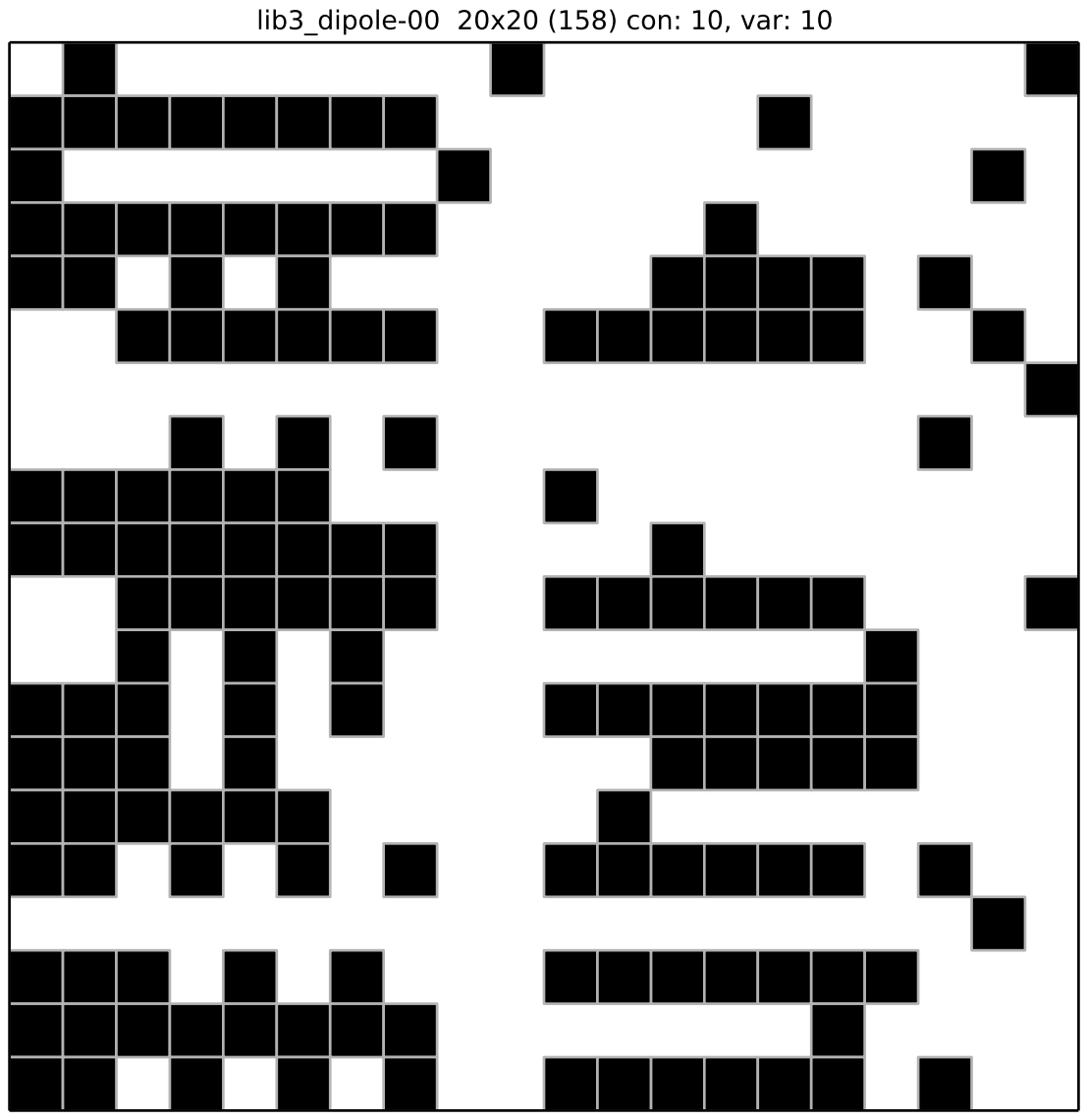
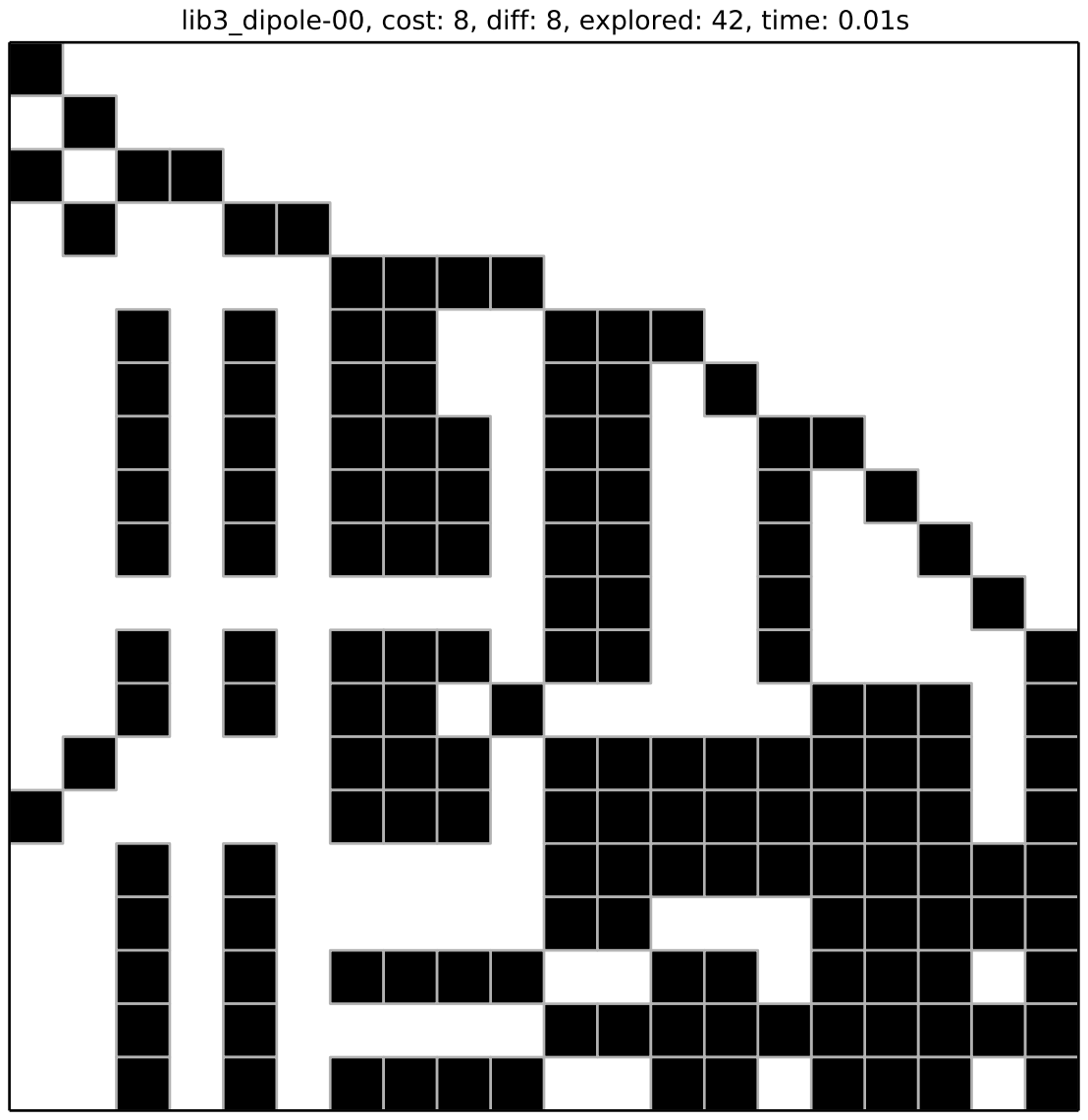

lib3_dipole-00 20x20 (158) con: 10, var: 10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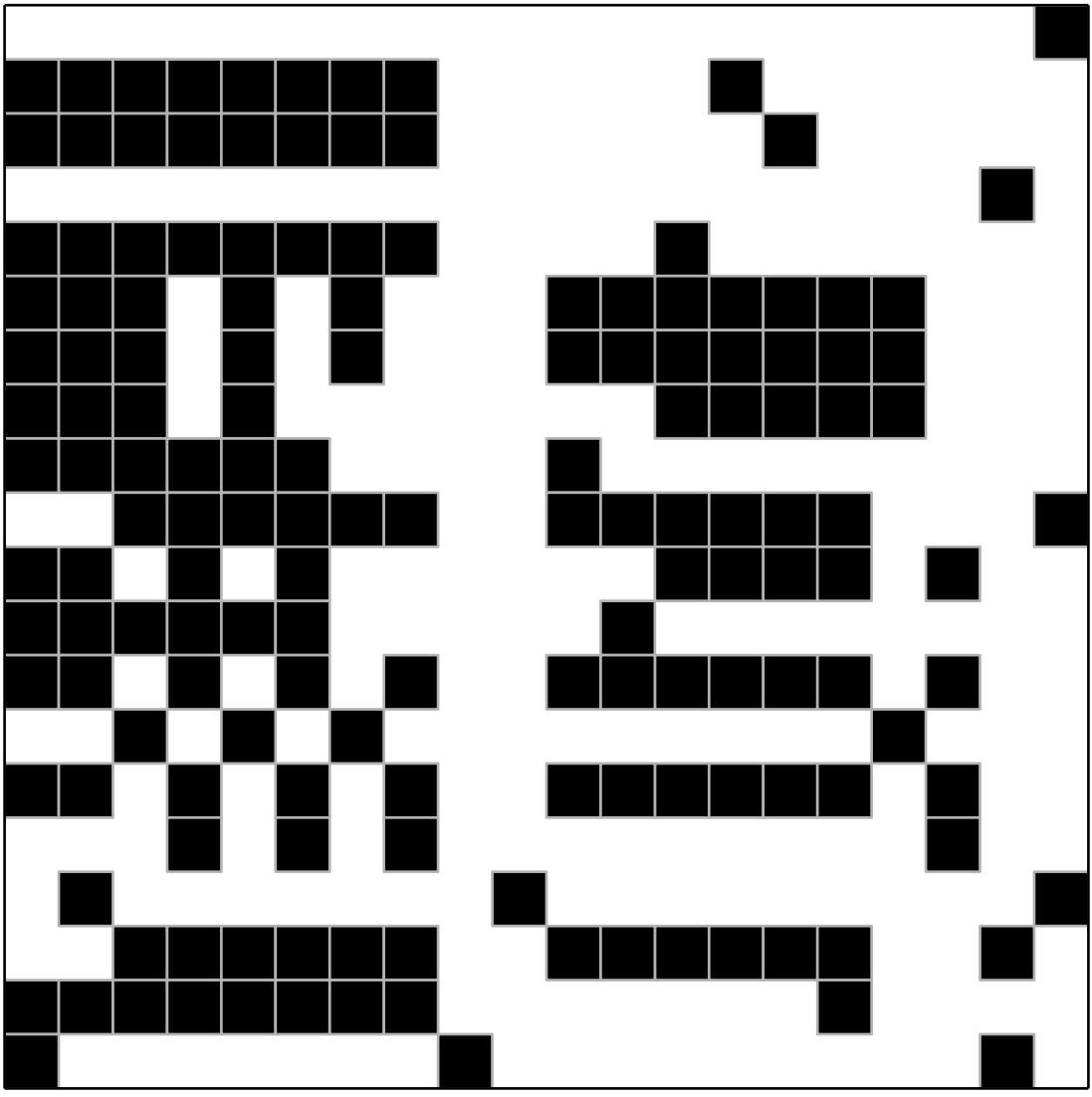

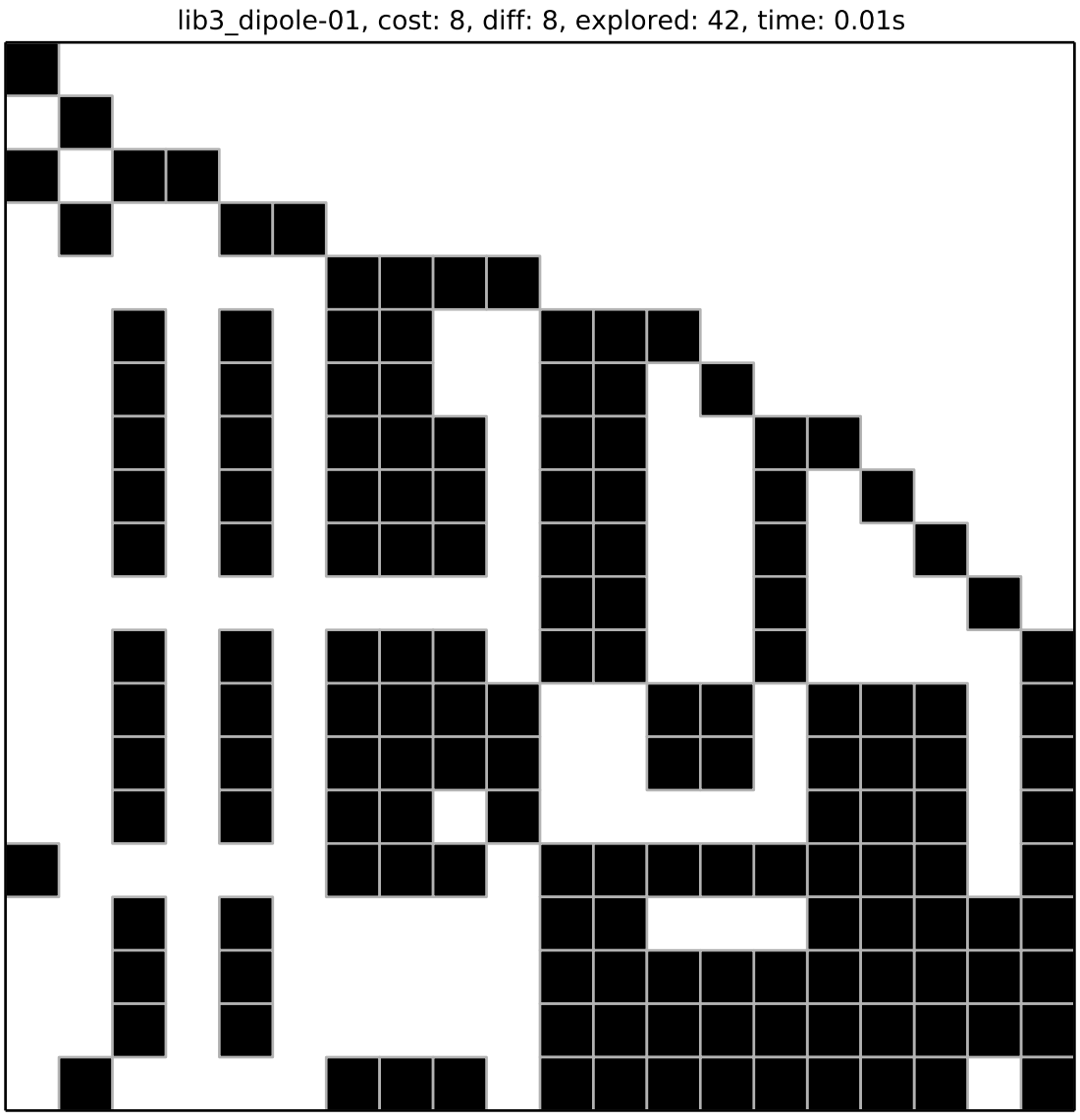
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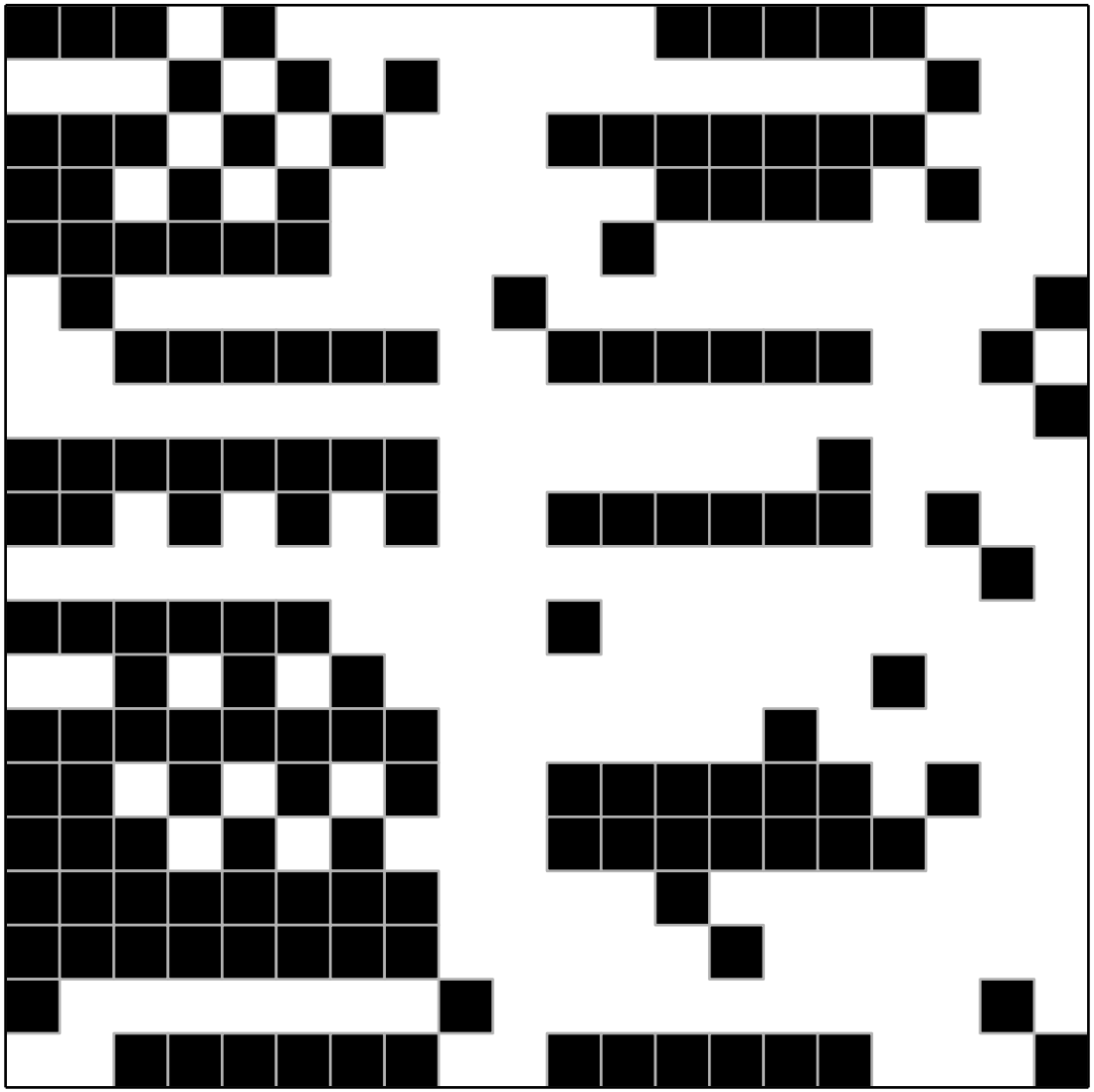

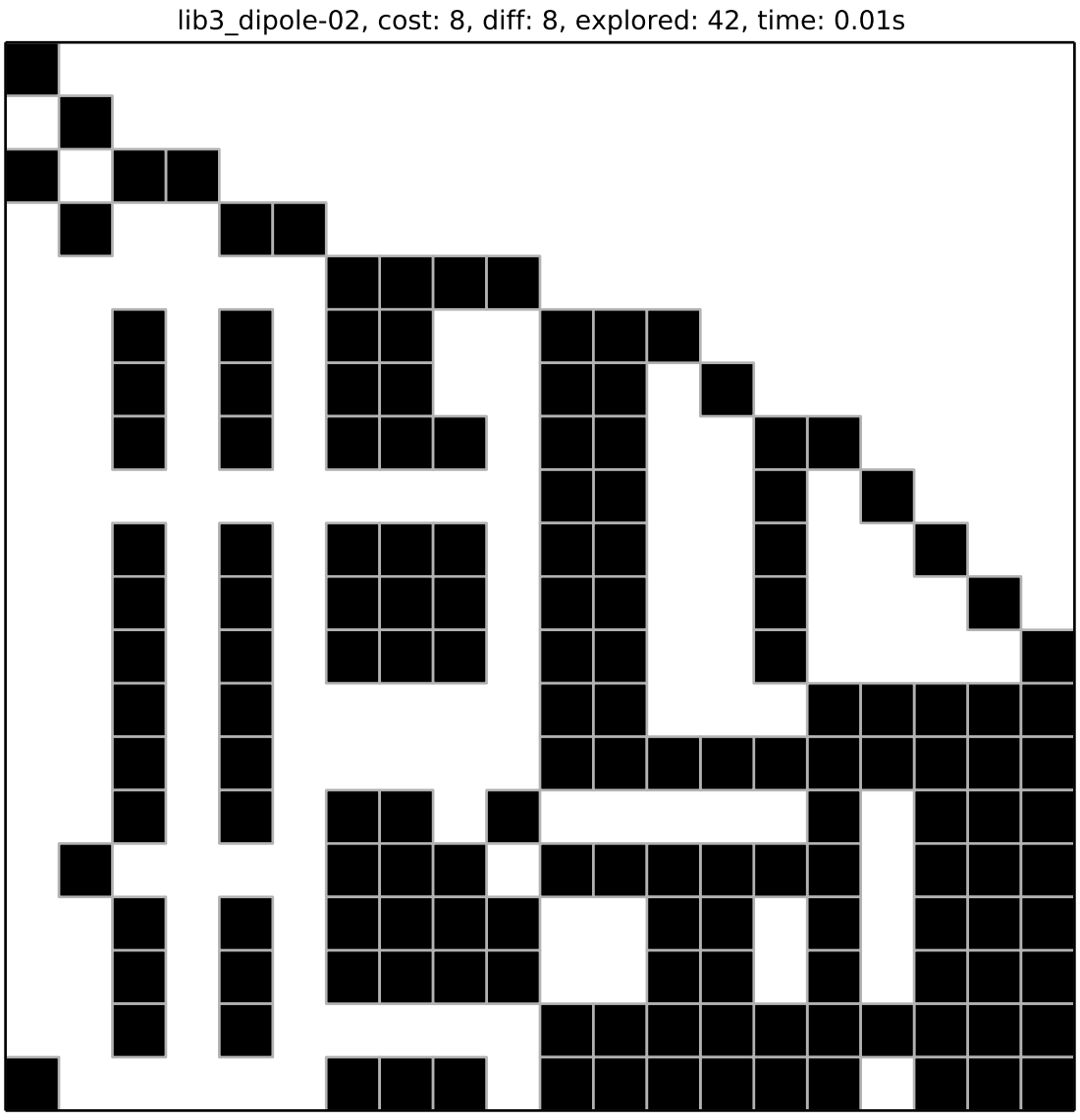
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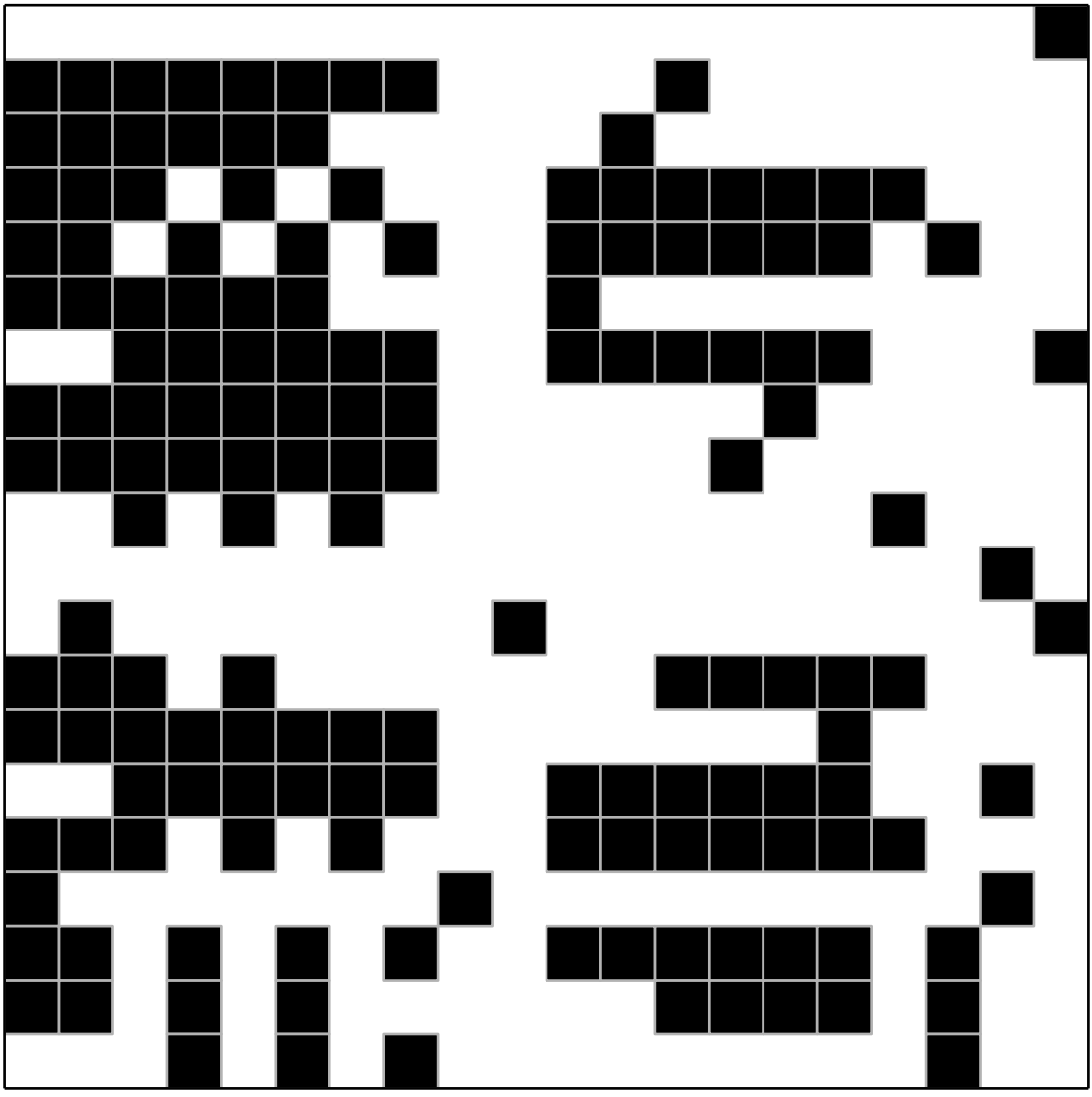

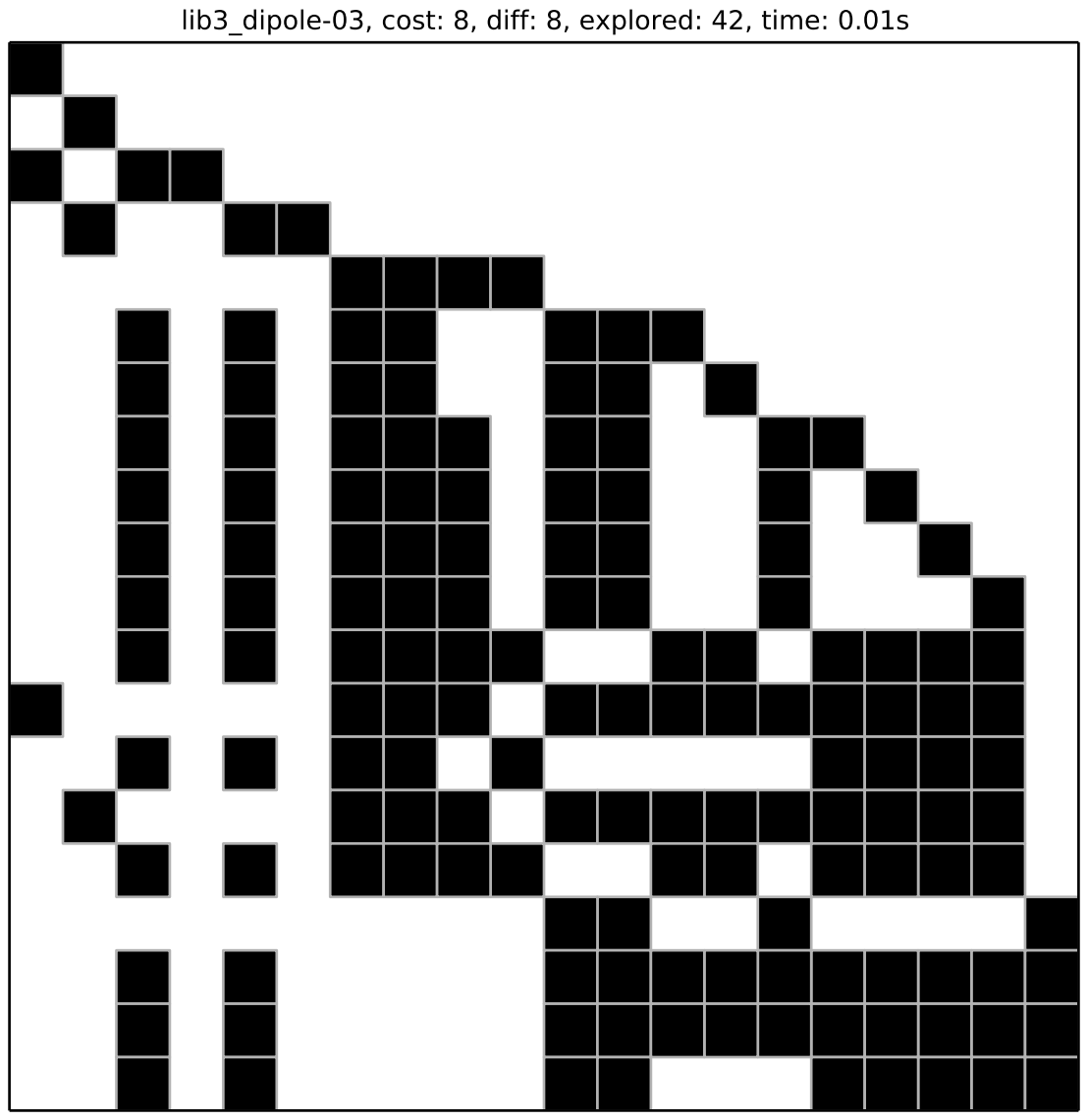
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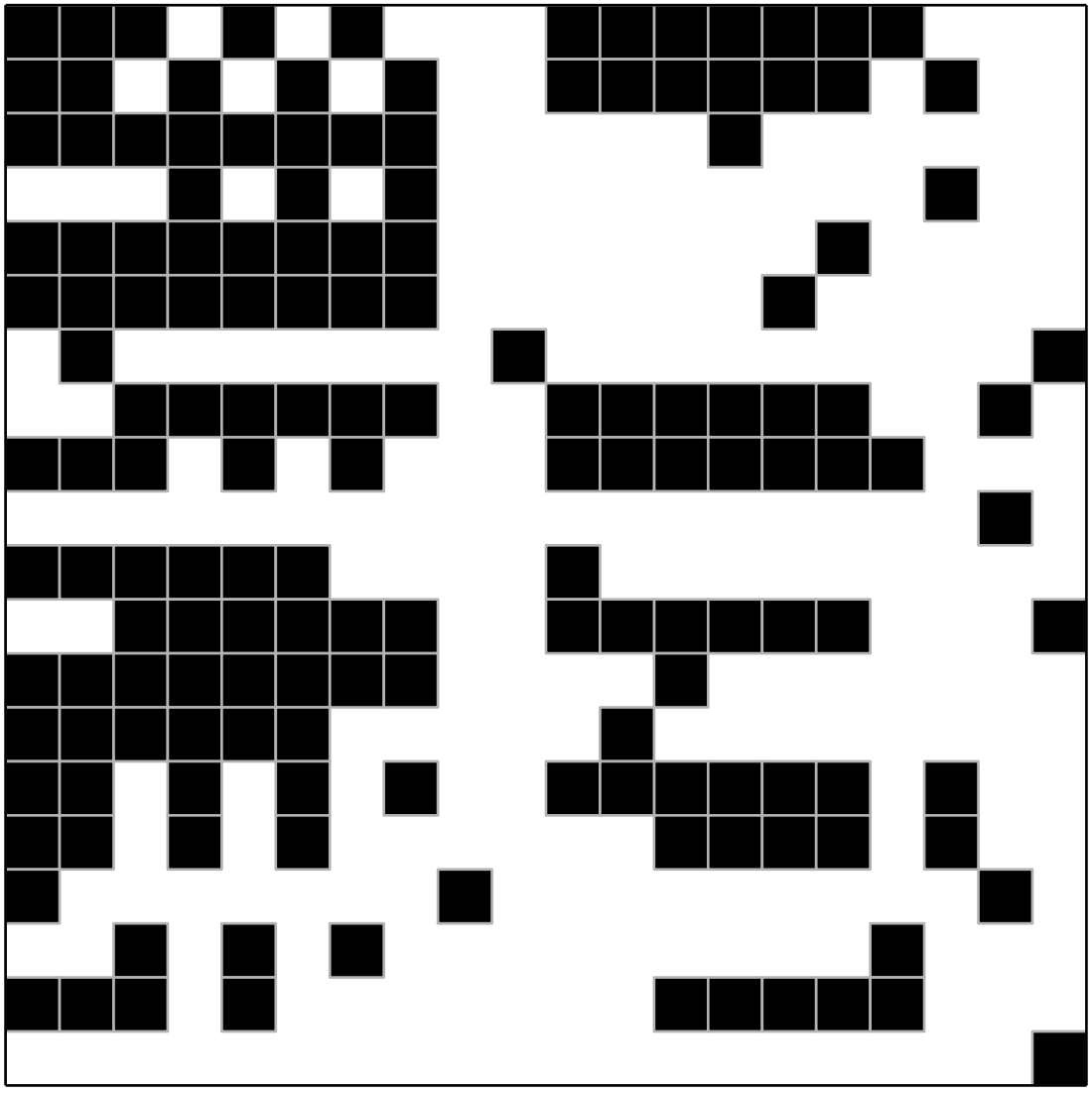

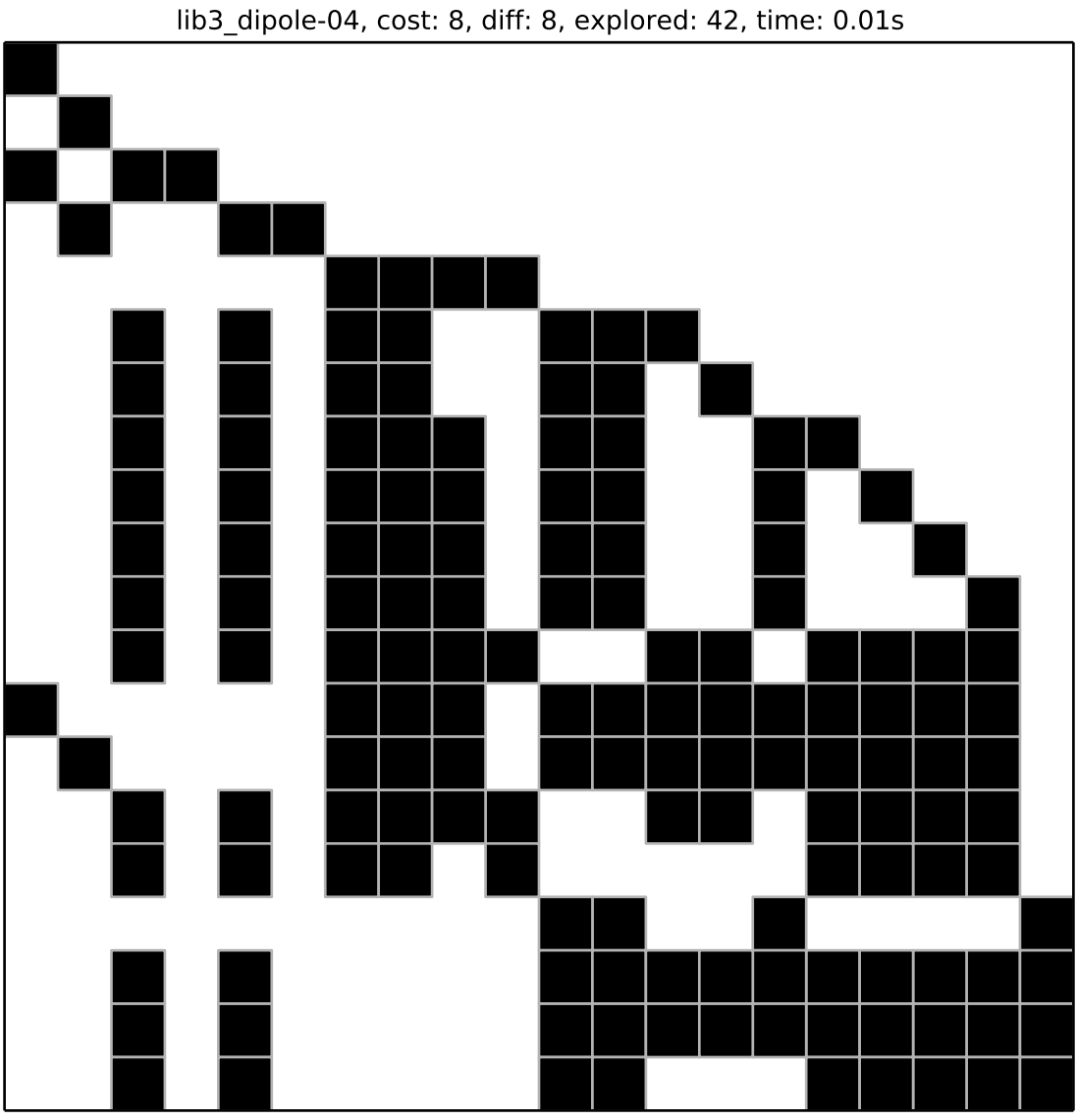
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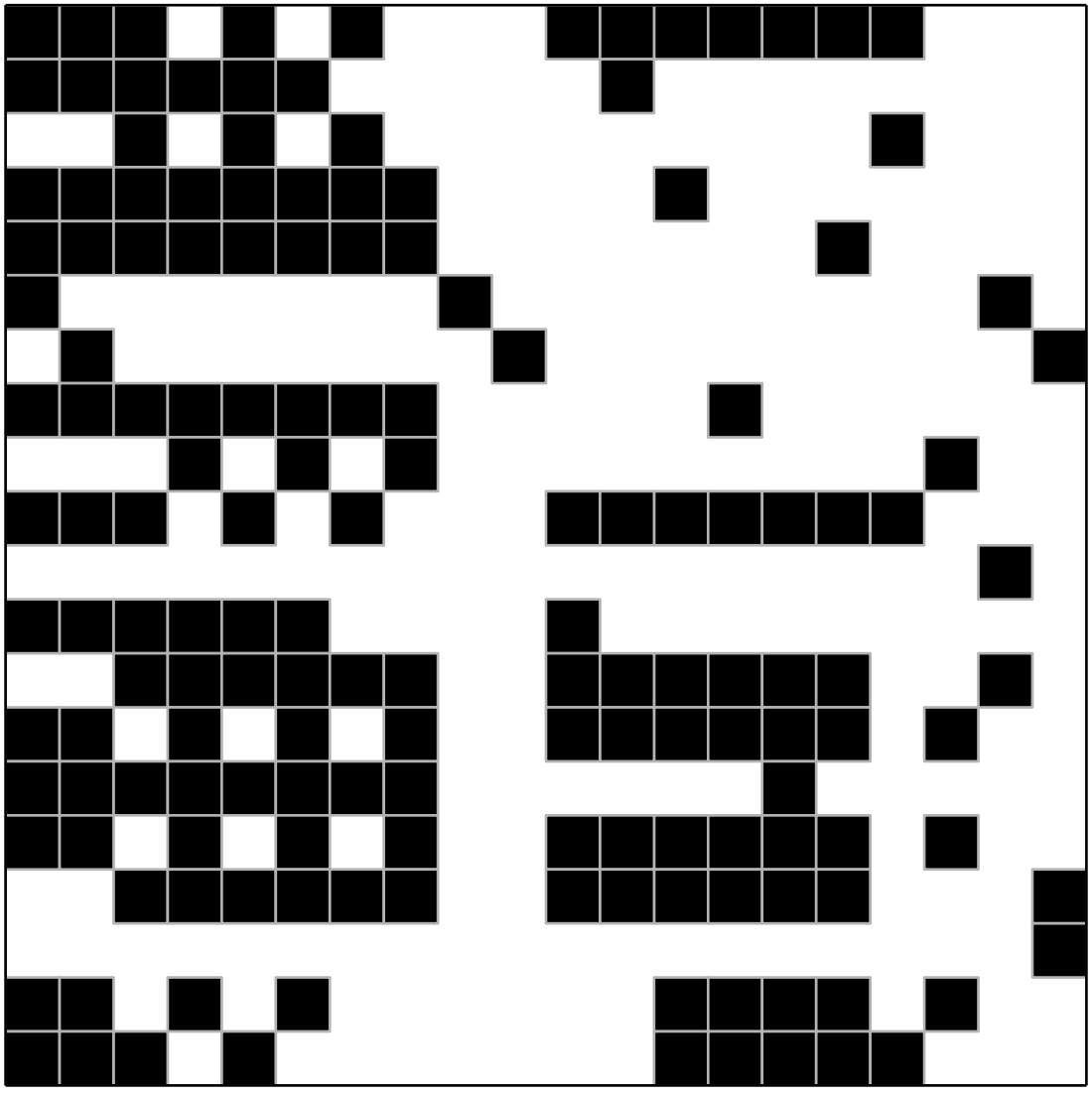

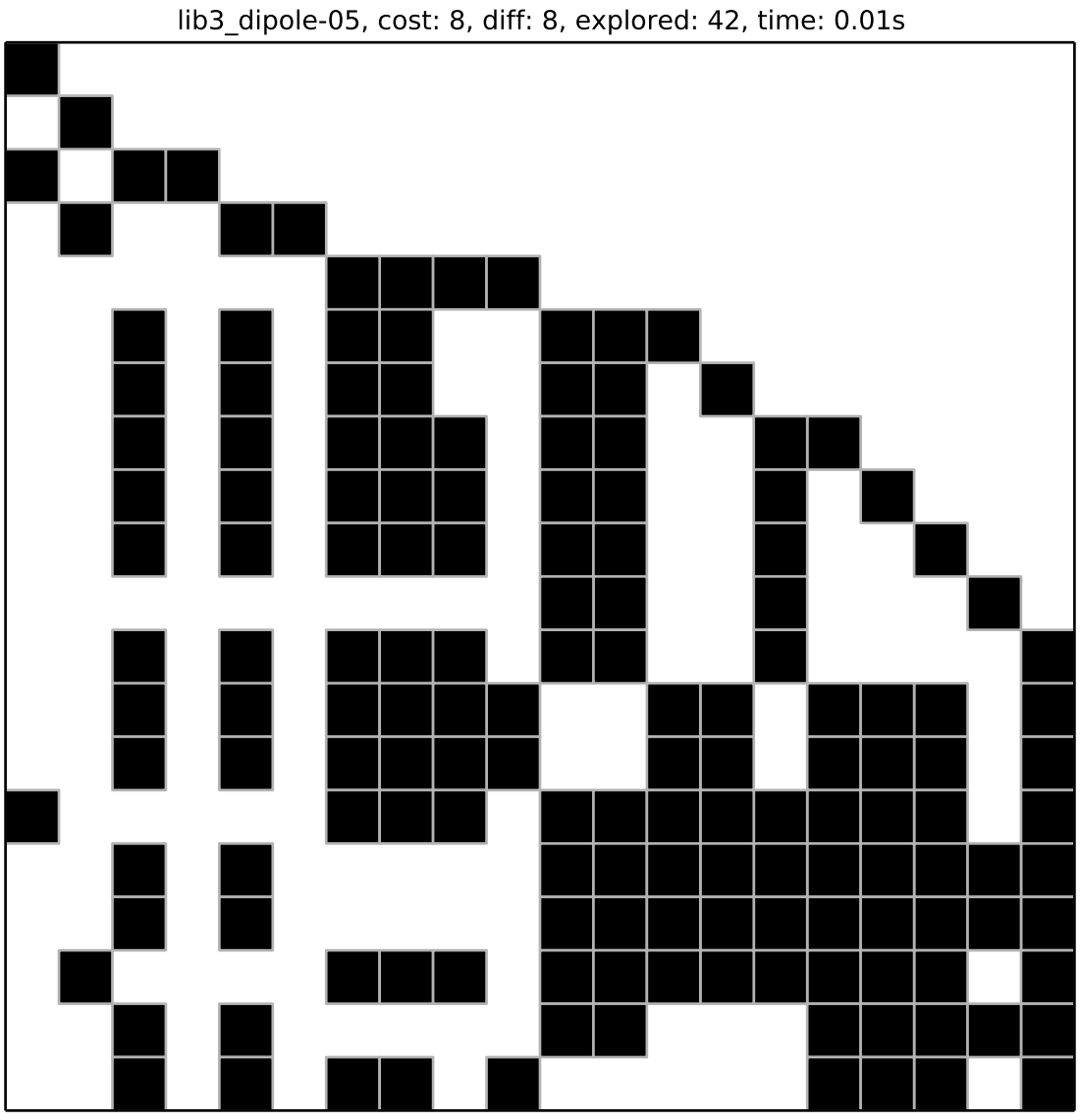
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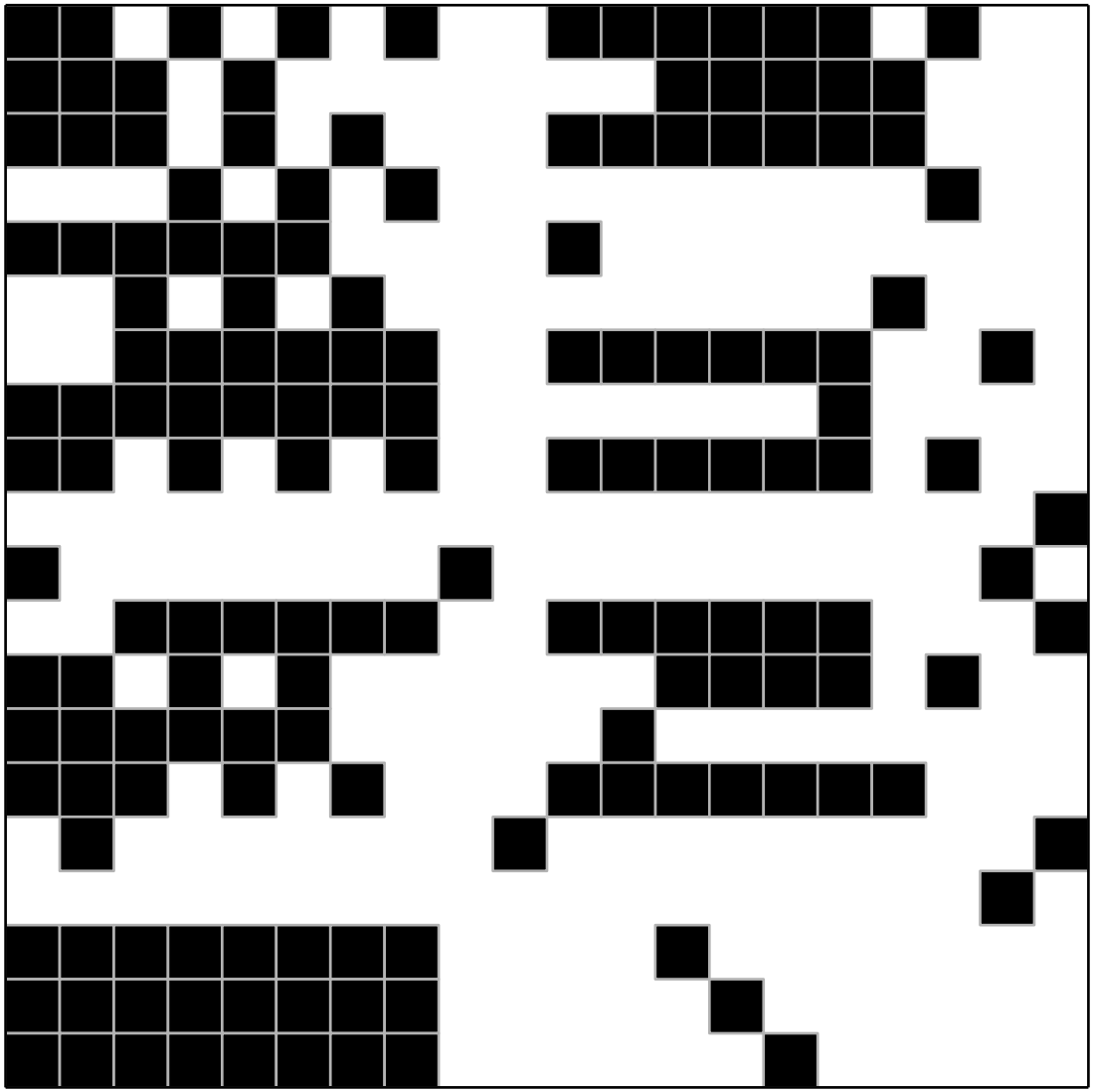

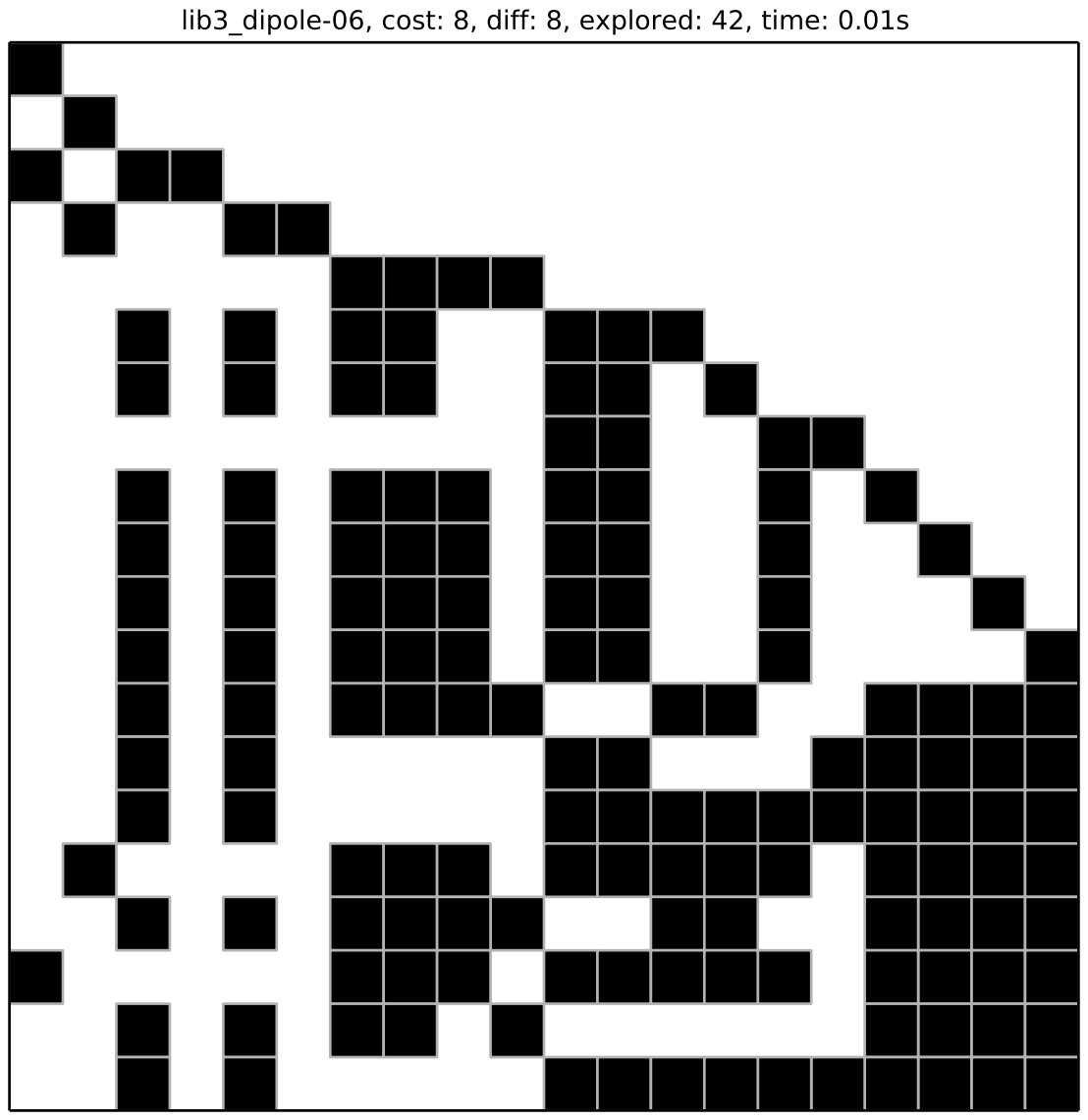
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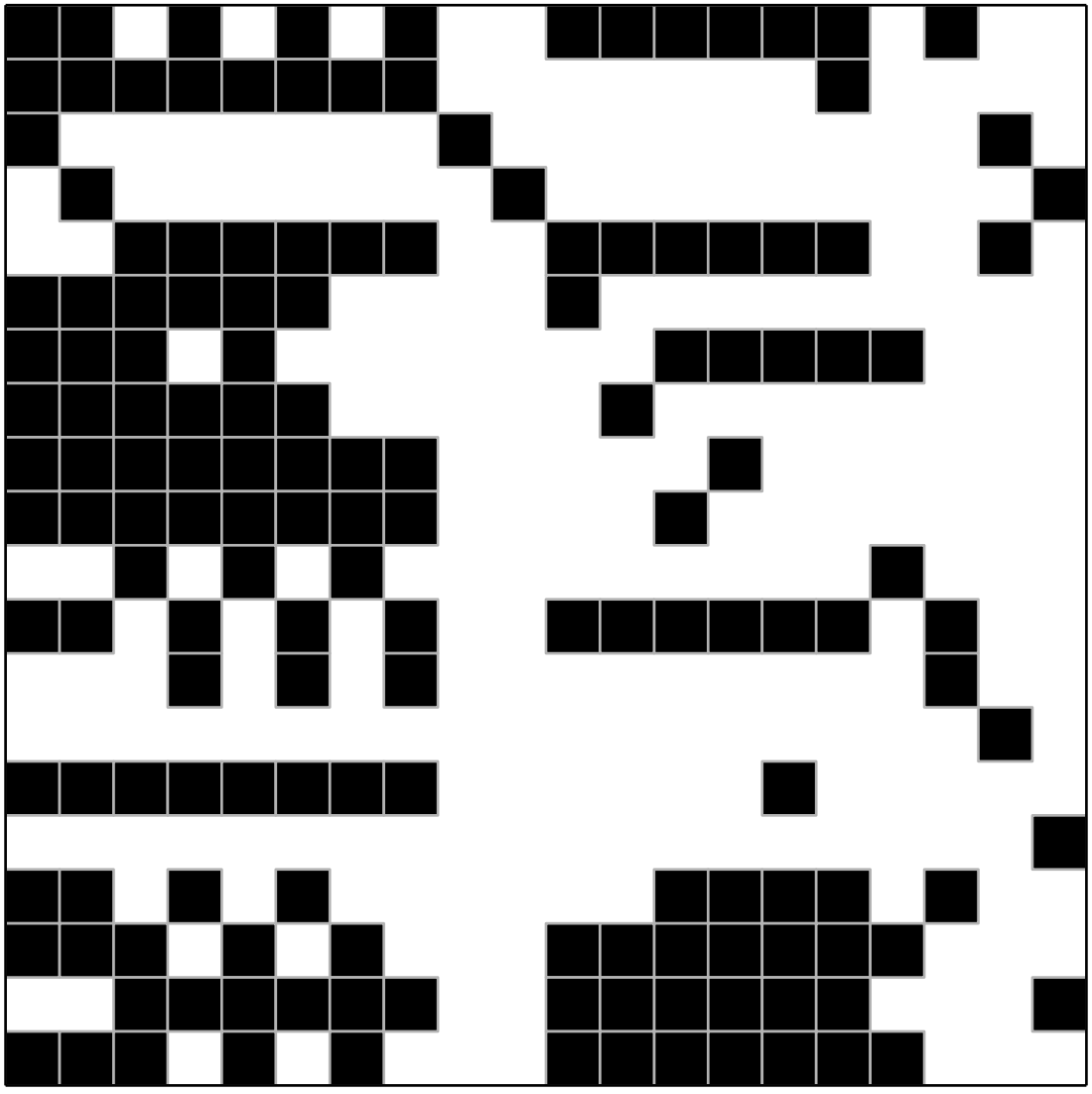

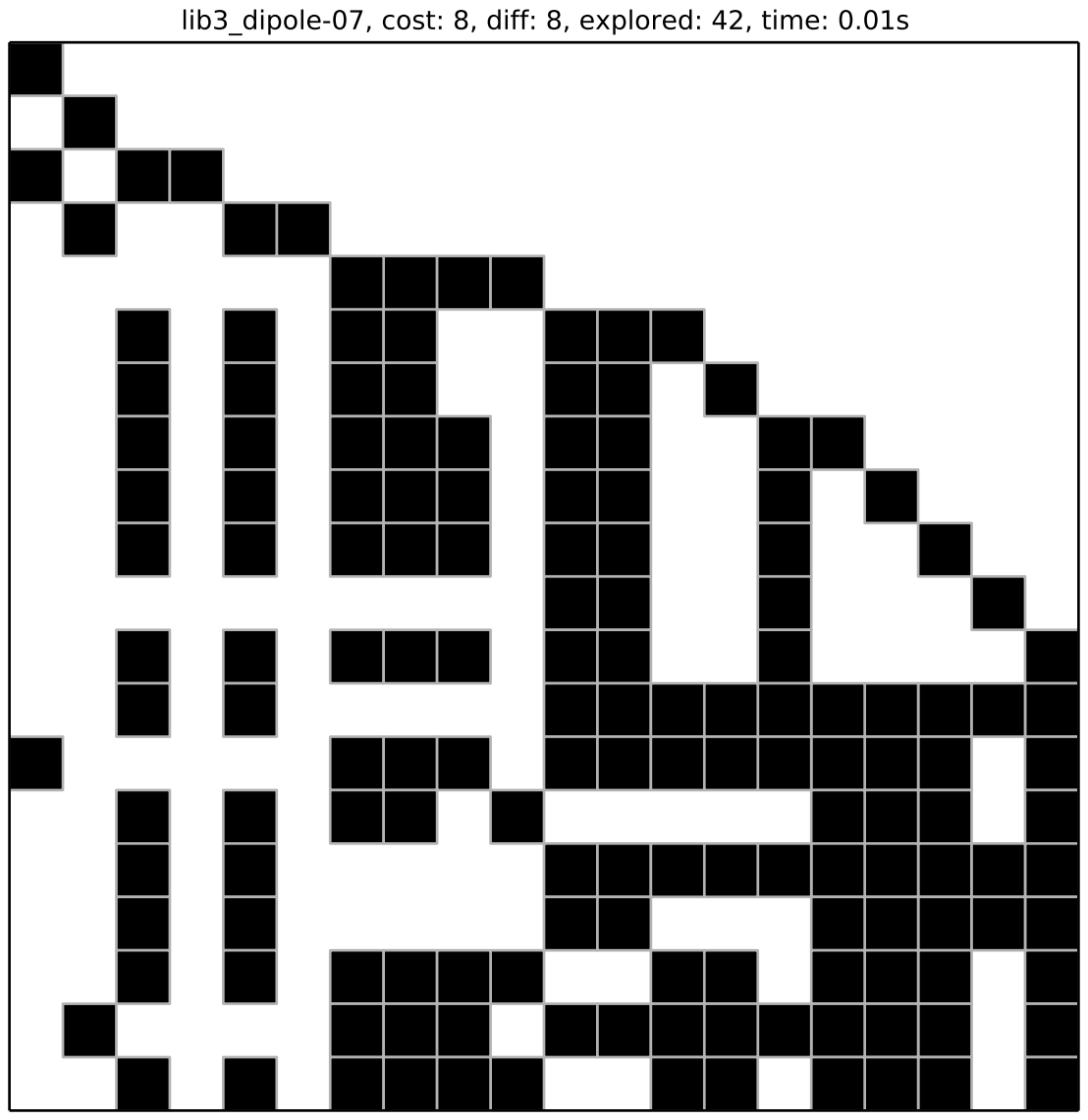
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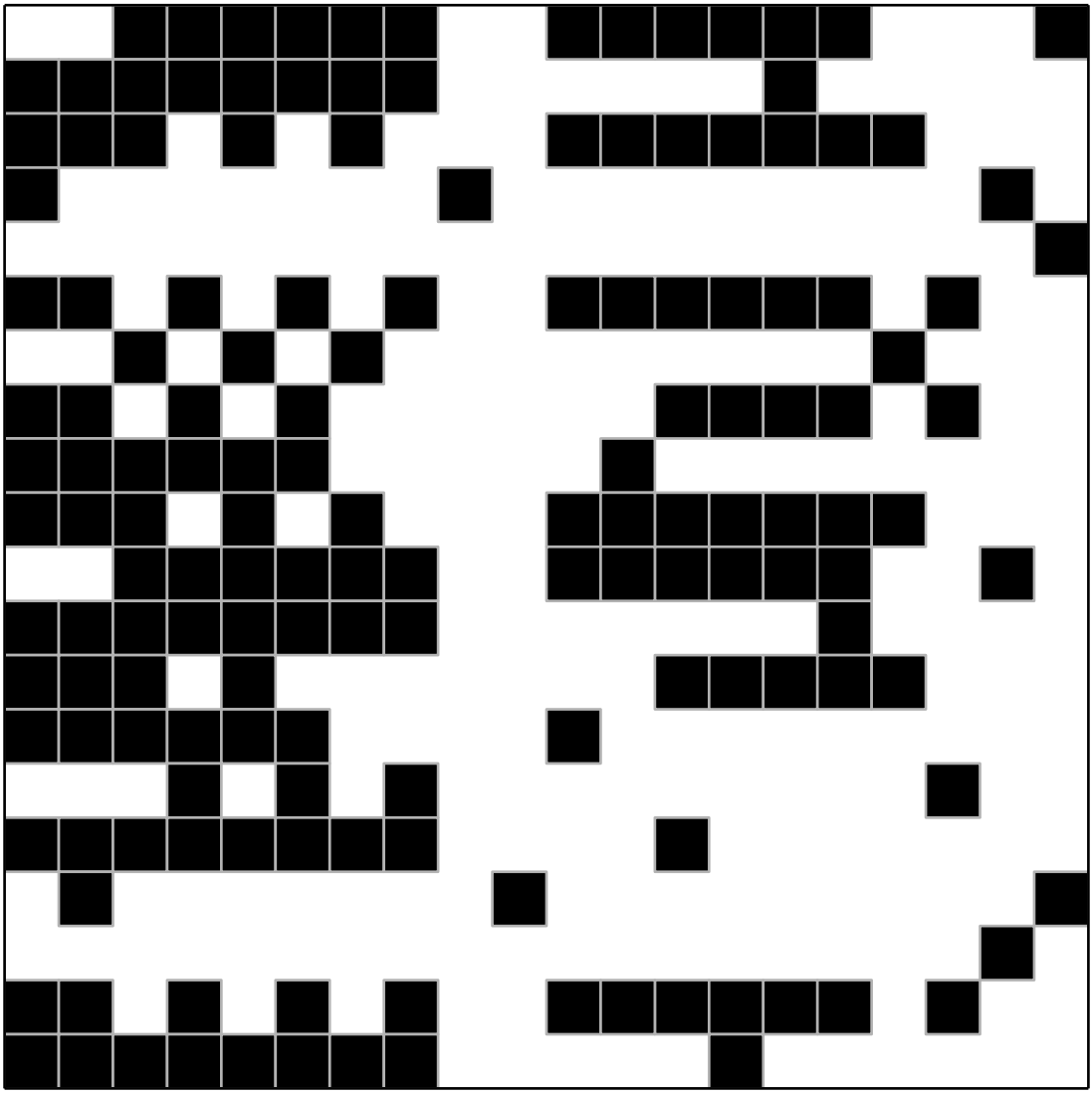

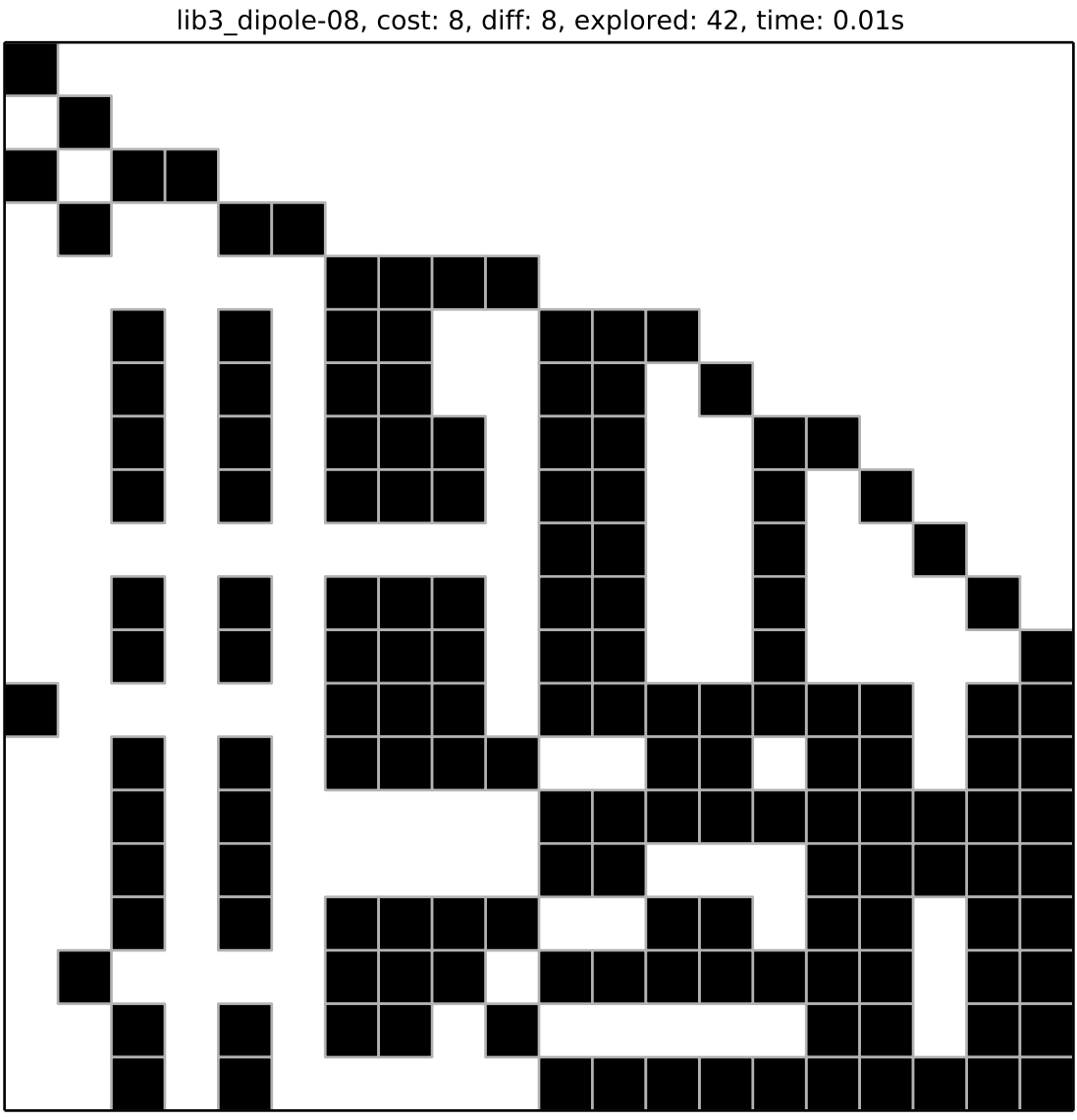
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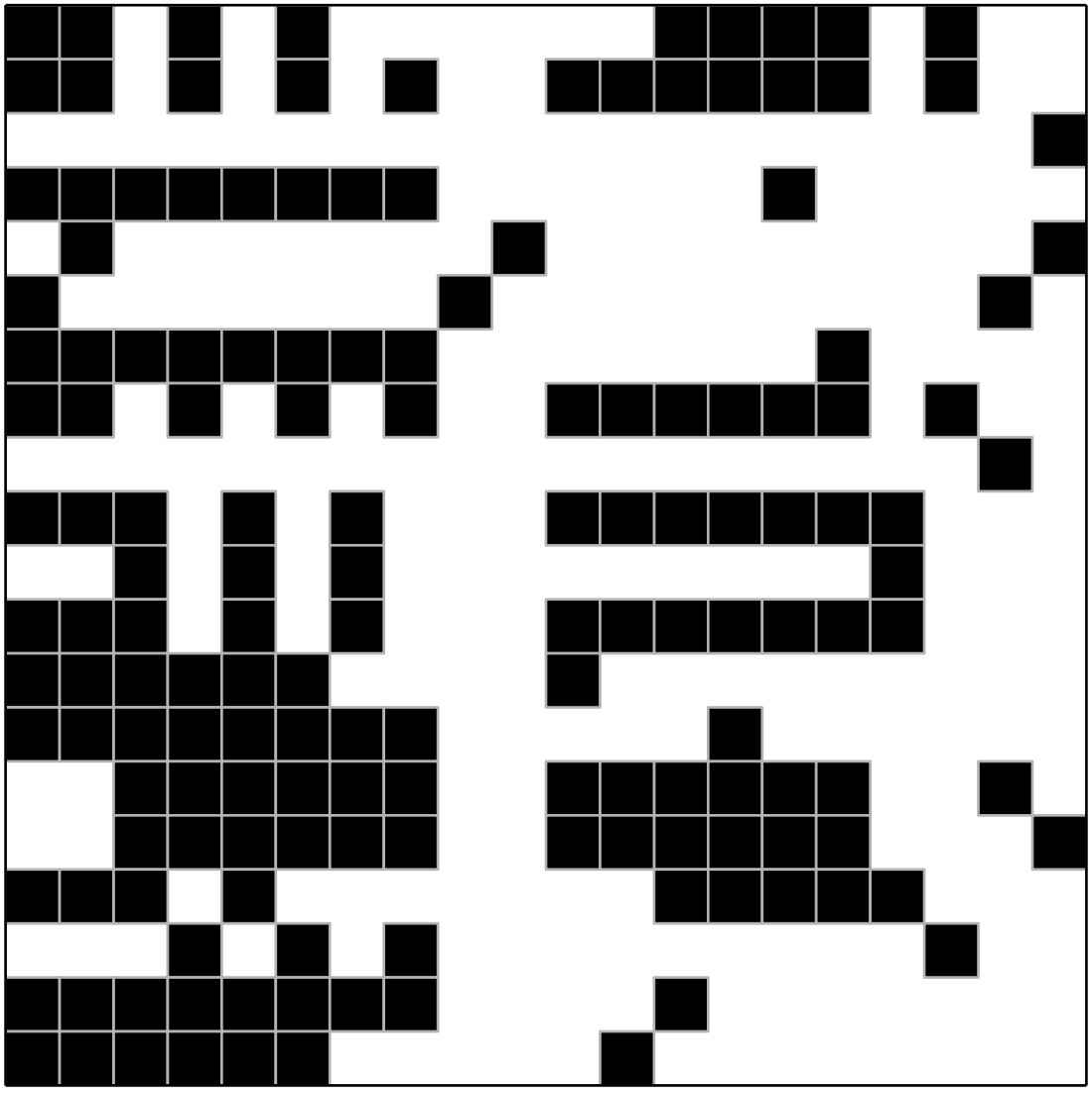

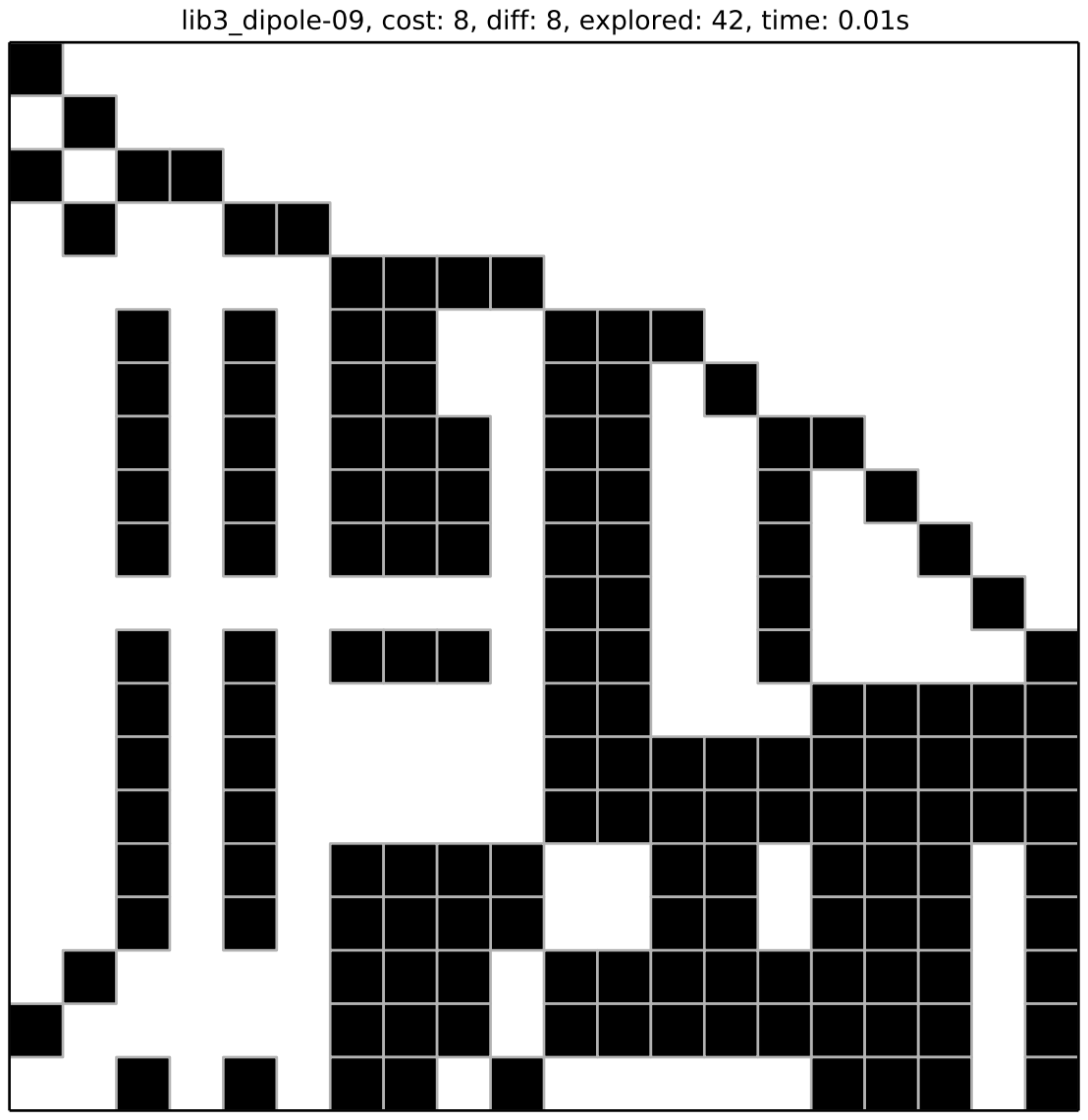
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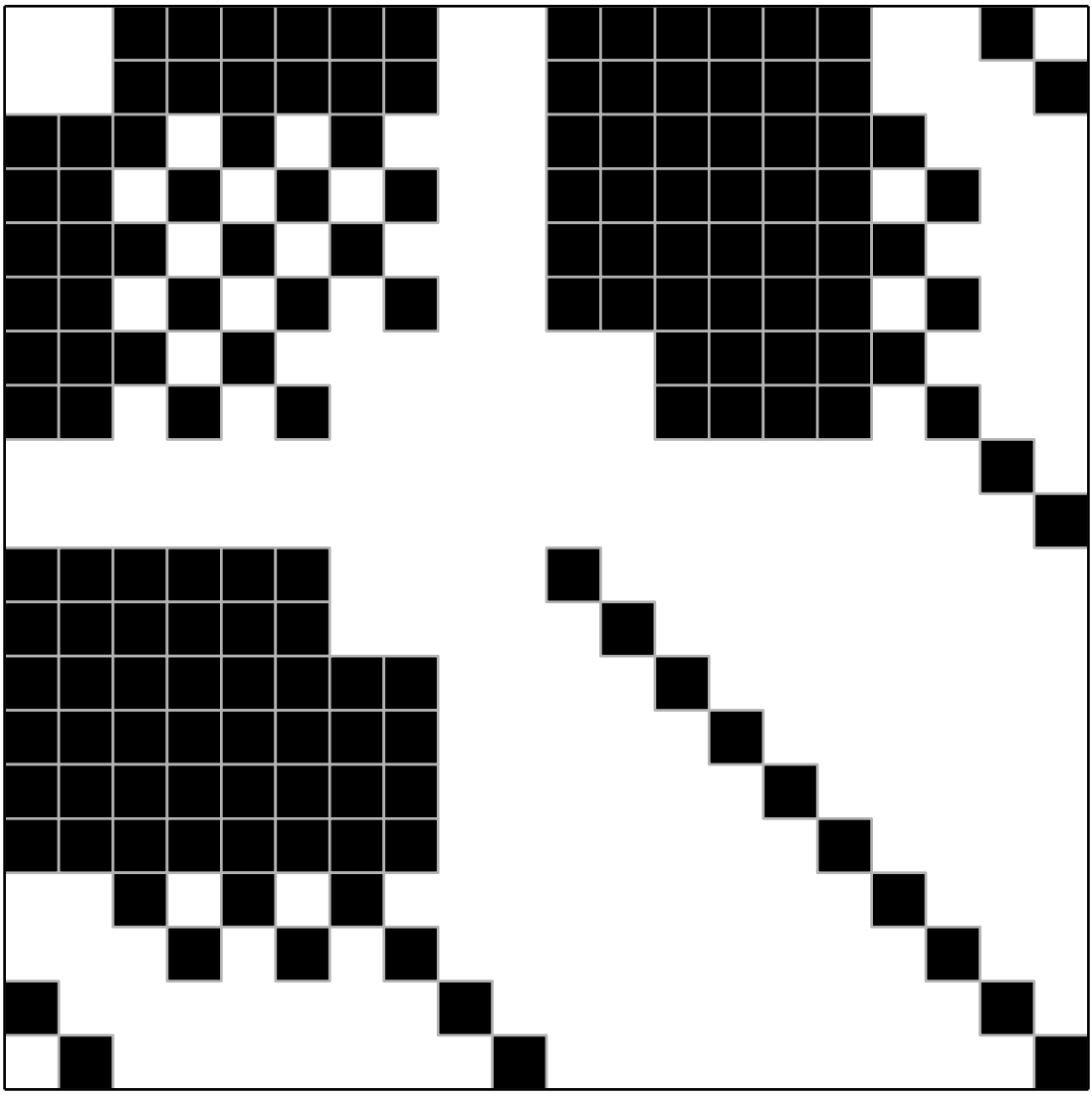
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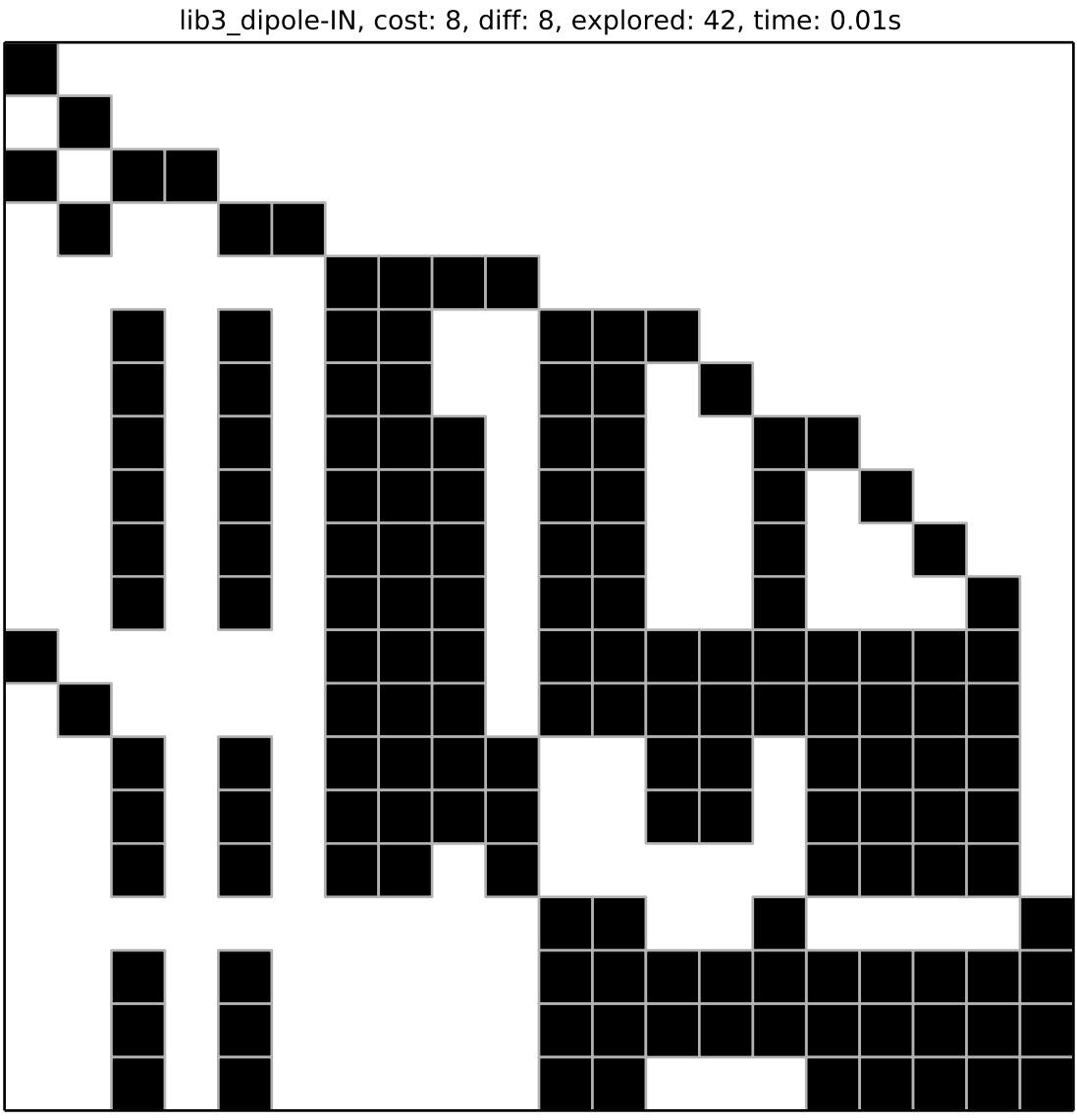
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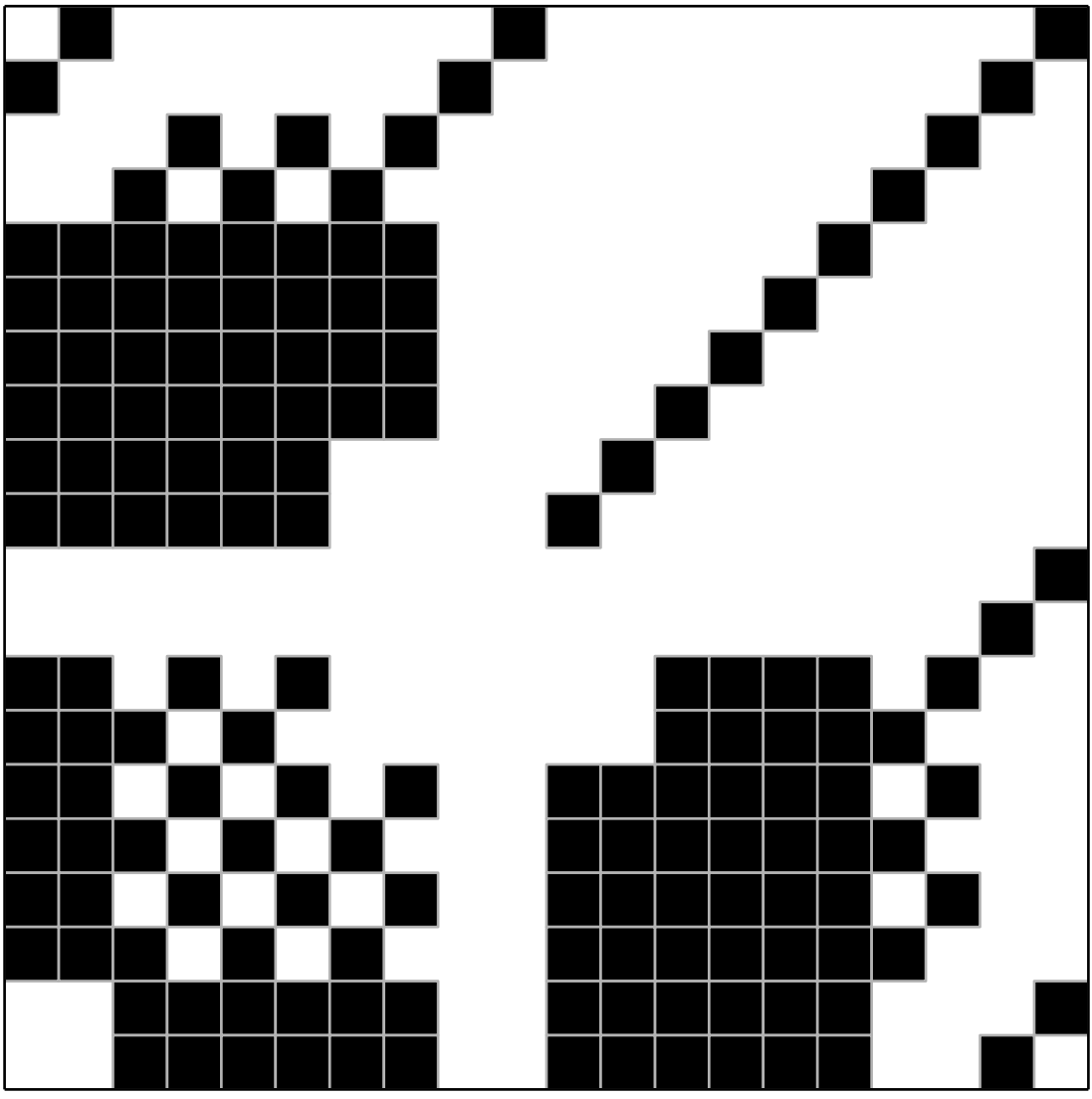
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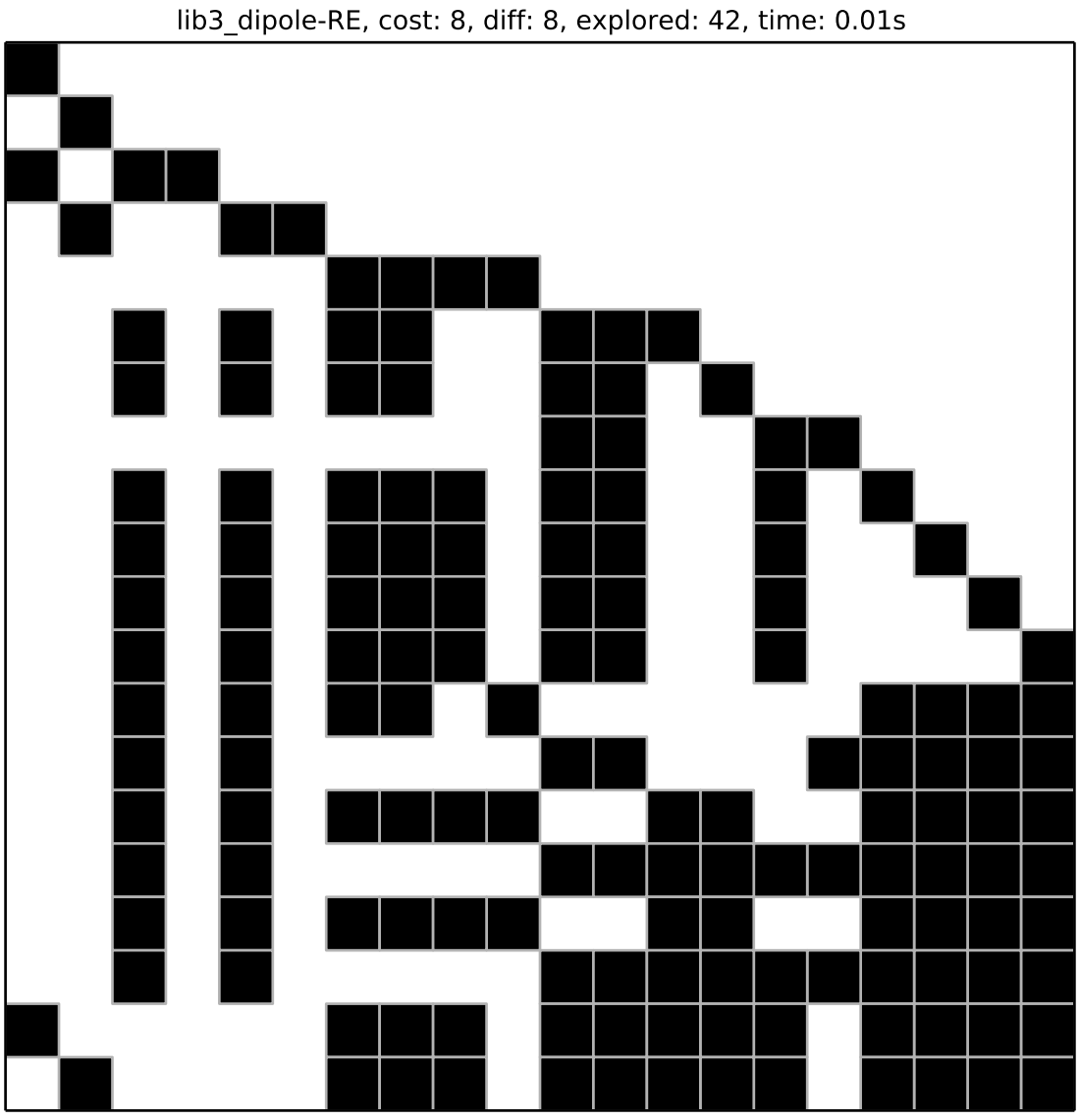
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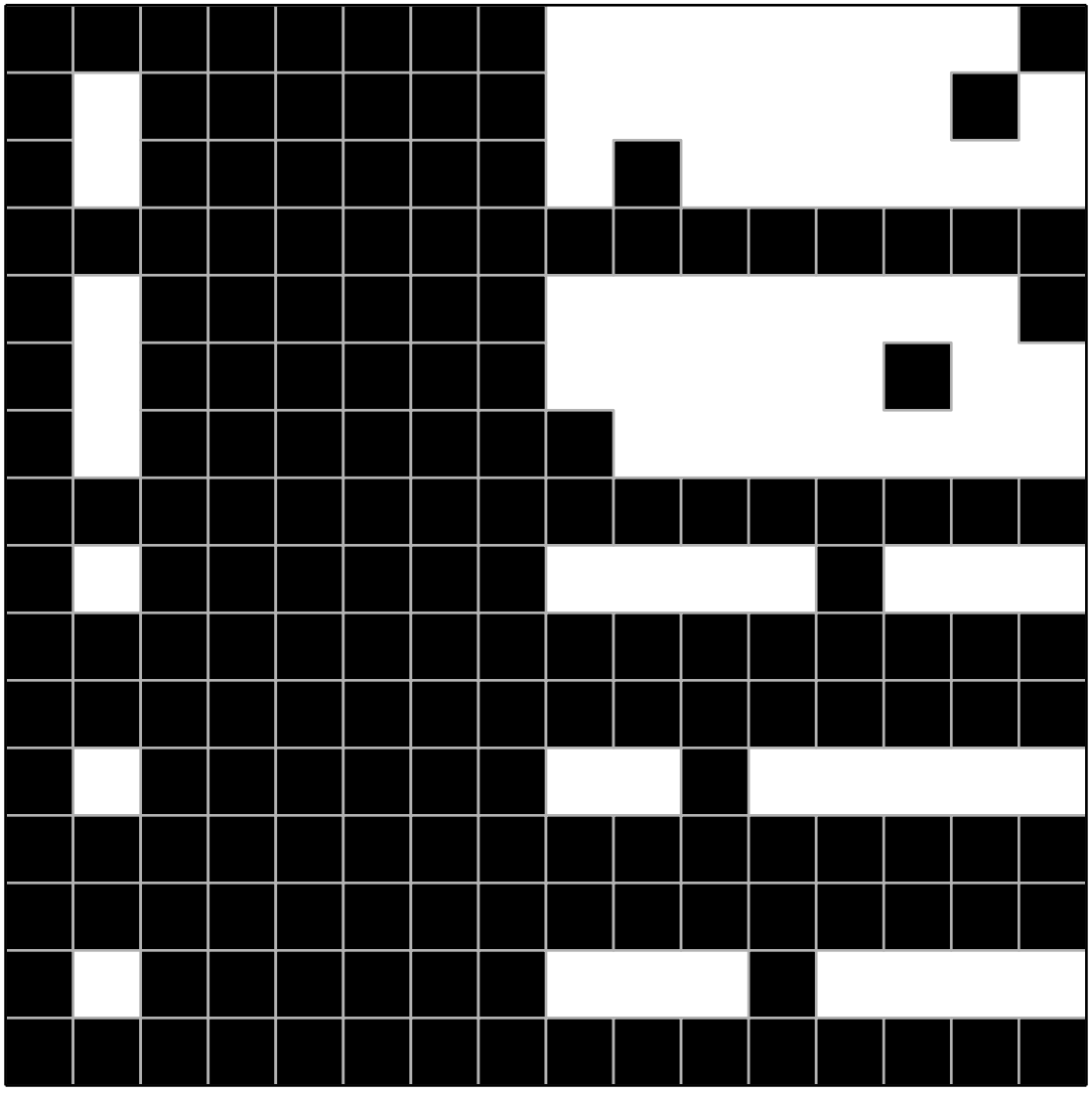
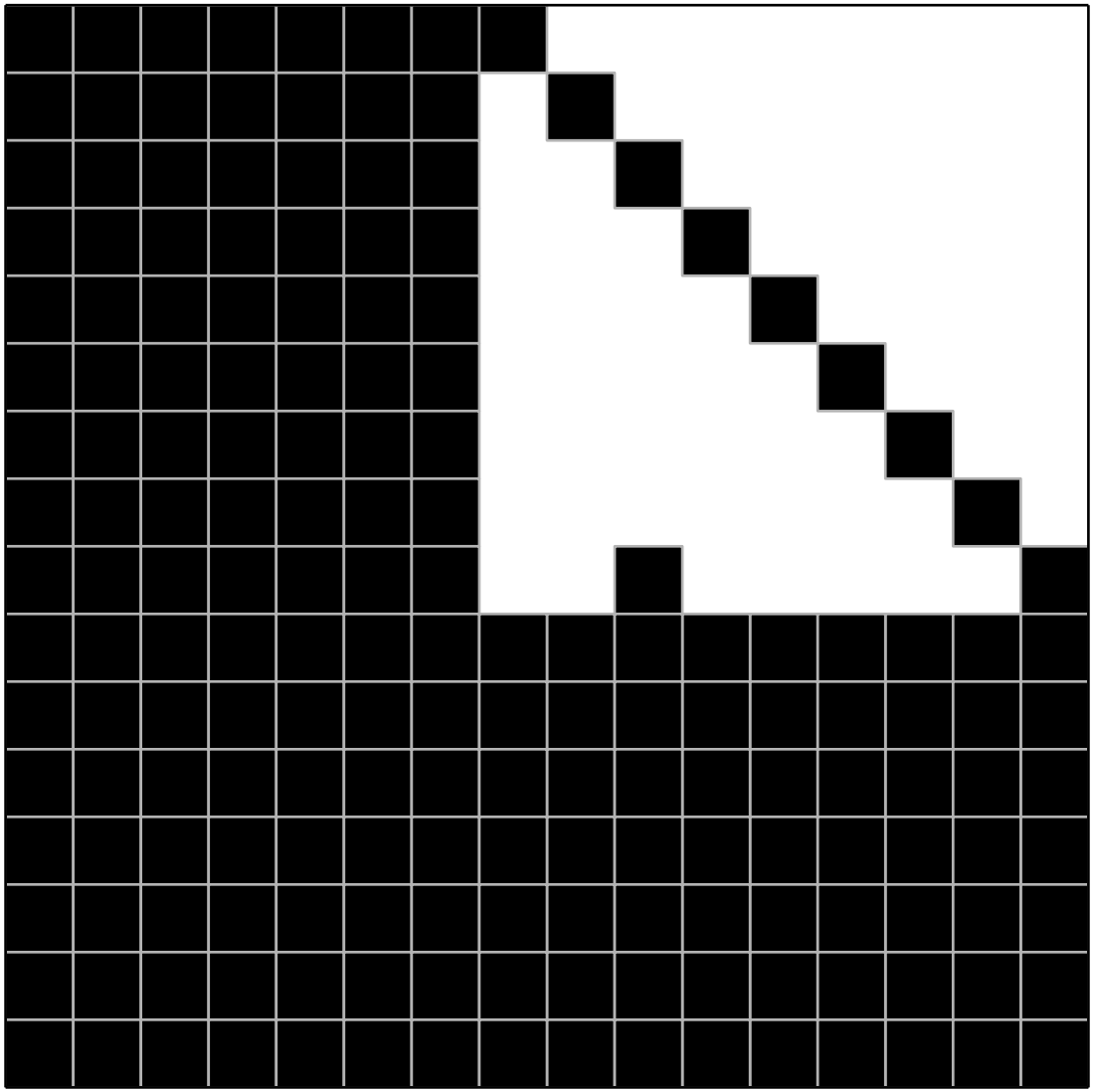
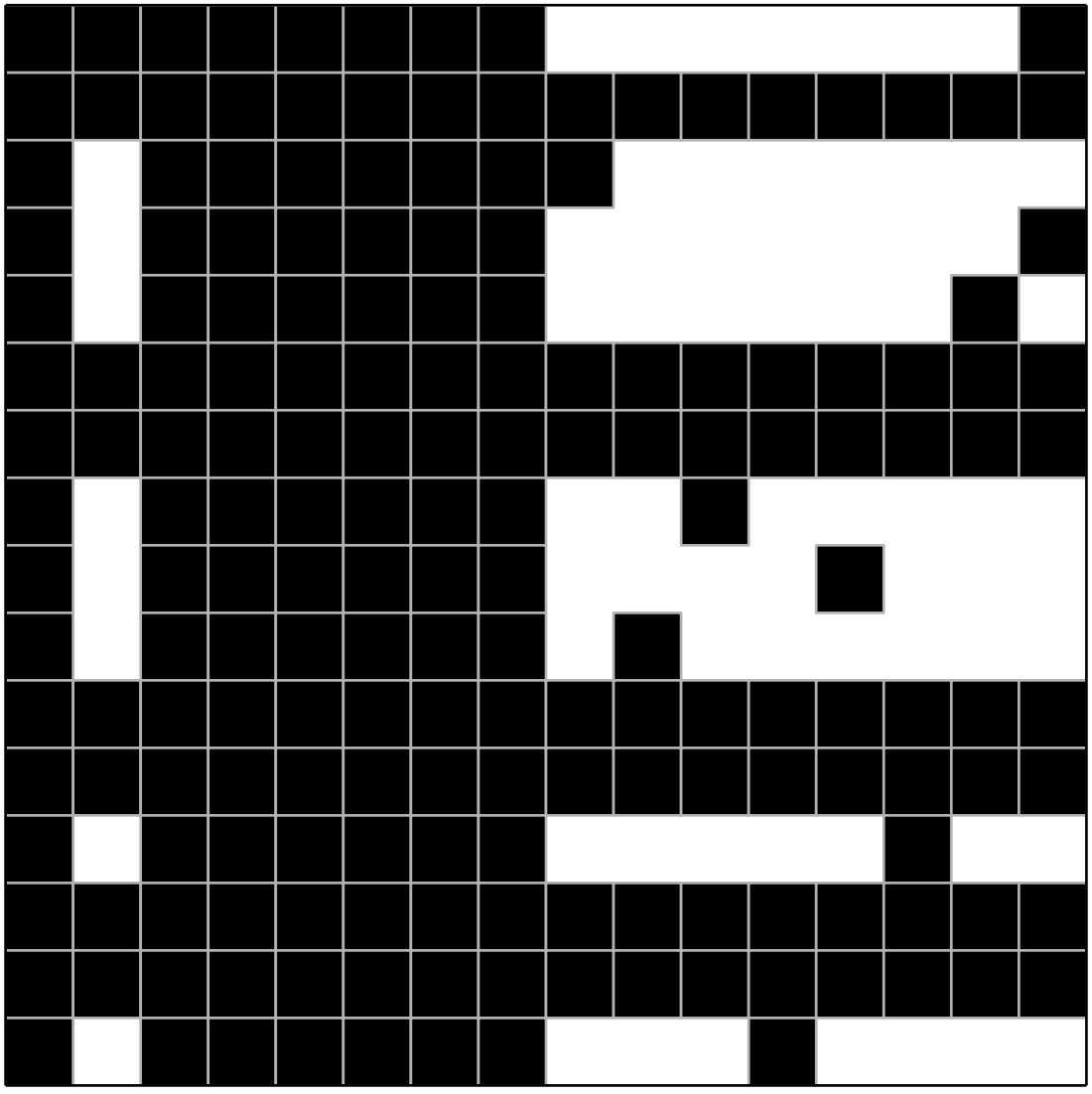
lib3_discret3-00 16x16 (185) con: 8, var: 8

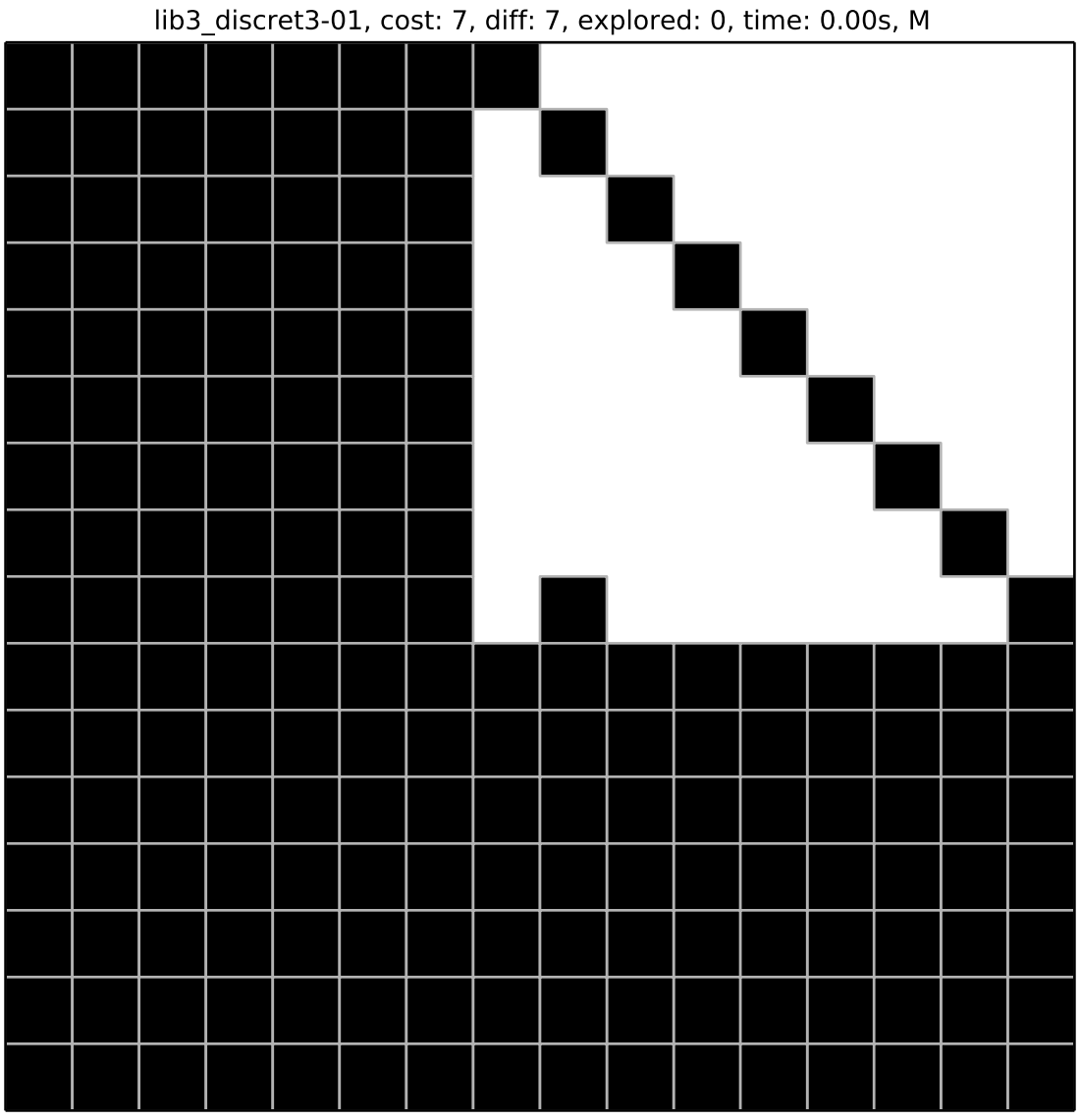


lib3_discret3-00, cost: 7, diff: 7, explored: 0, time: 0.00s, M



lib3_discret3-01 16x16 (185) con: 8, var: 8

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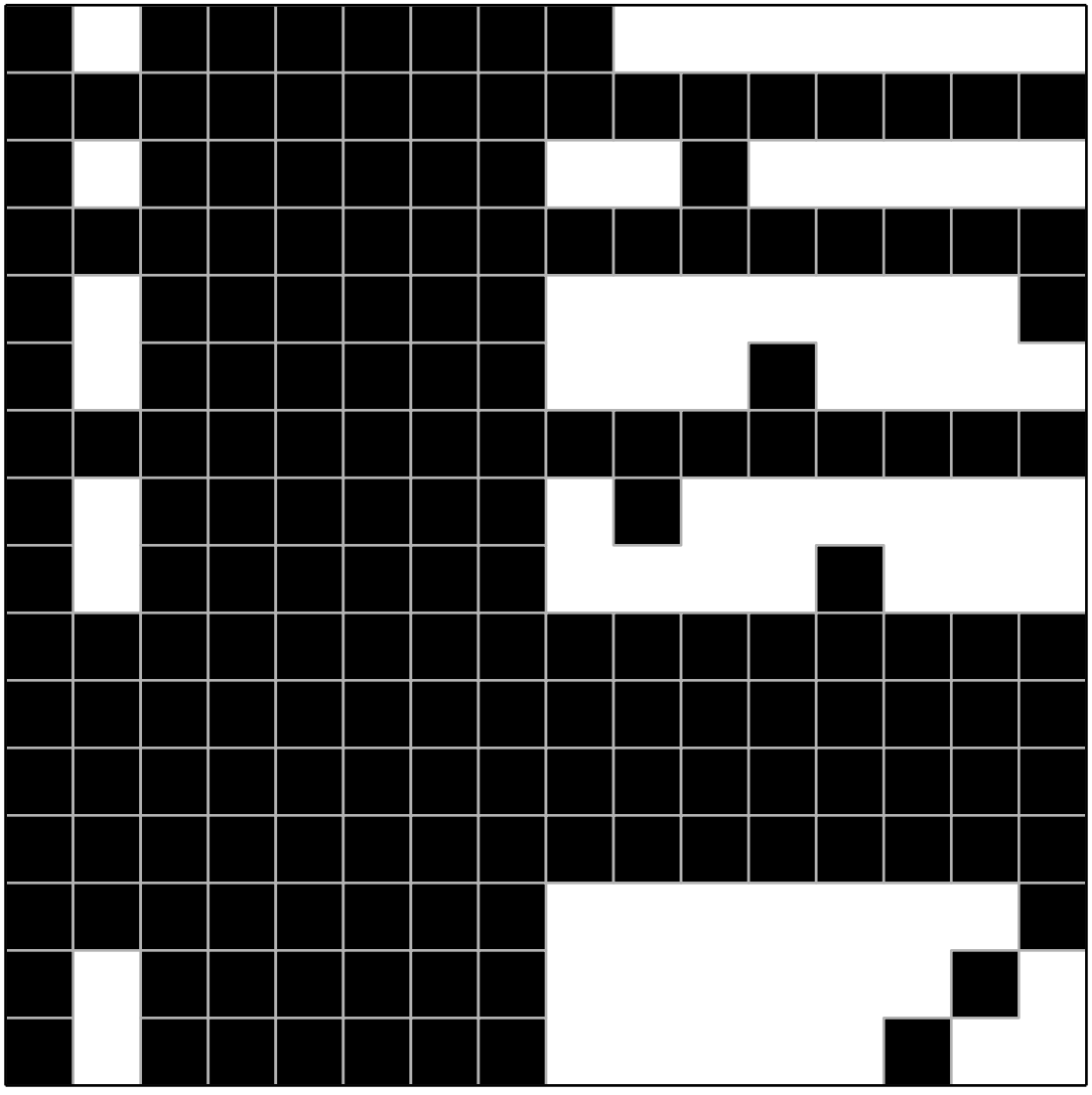
lib3_discret3-02 16x16 (185) con: 8, var: 8



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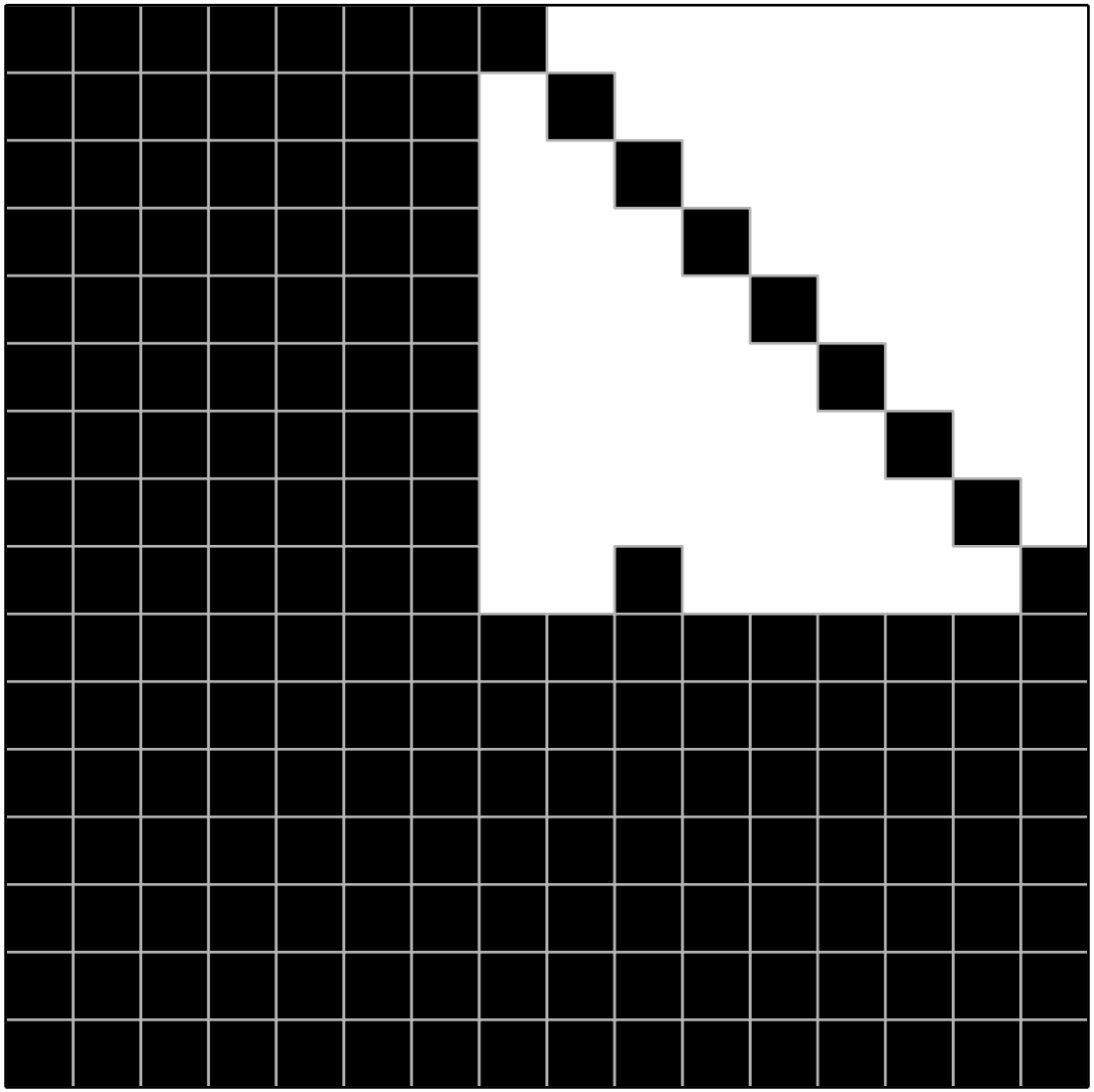

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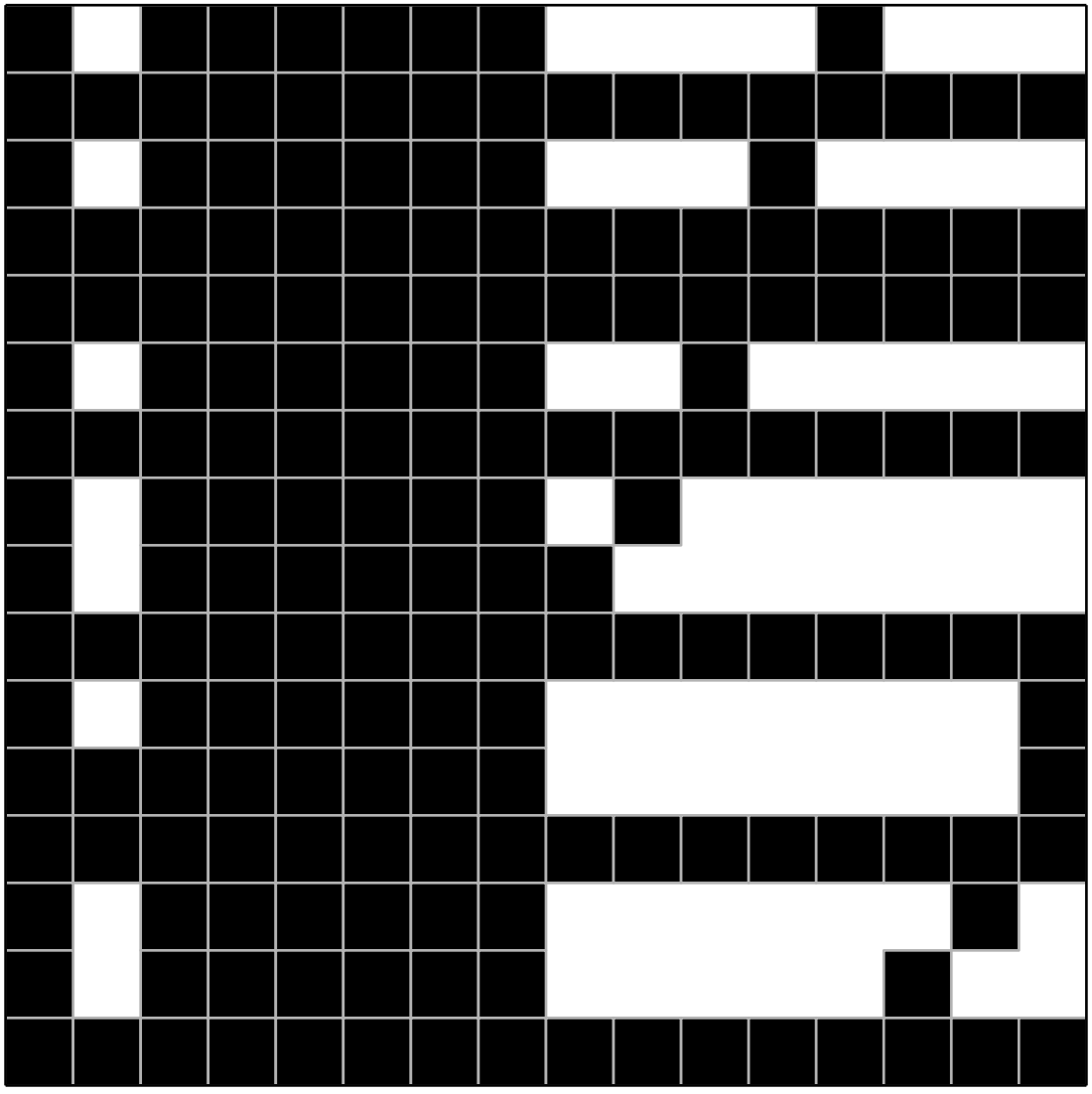

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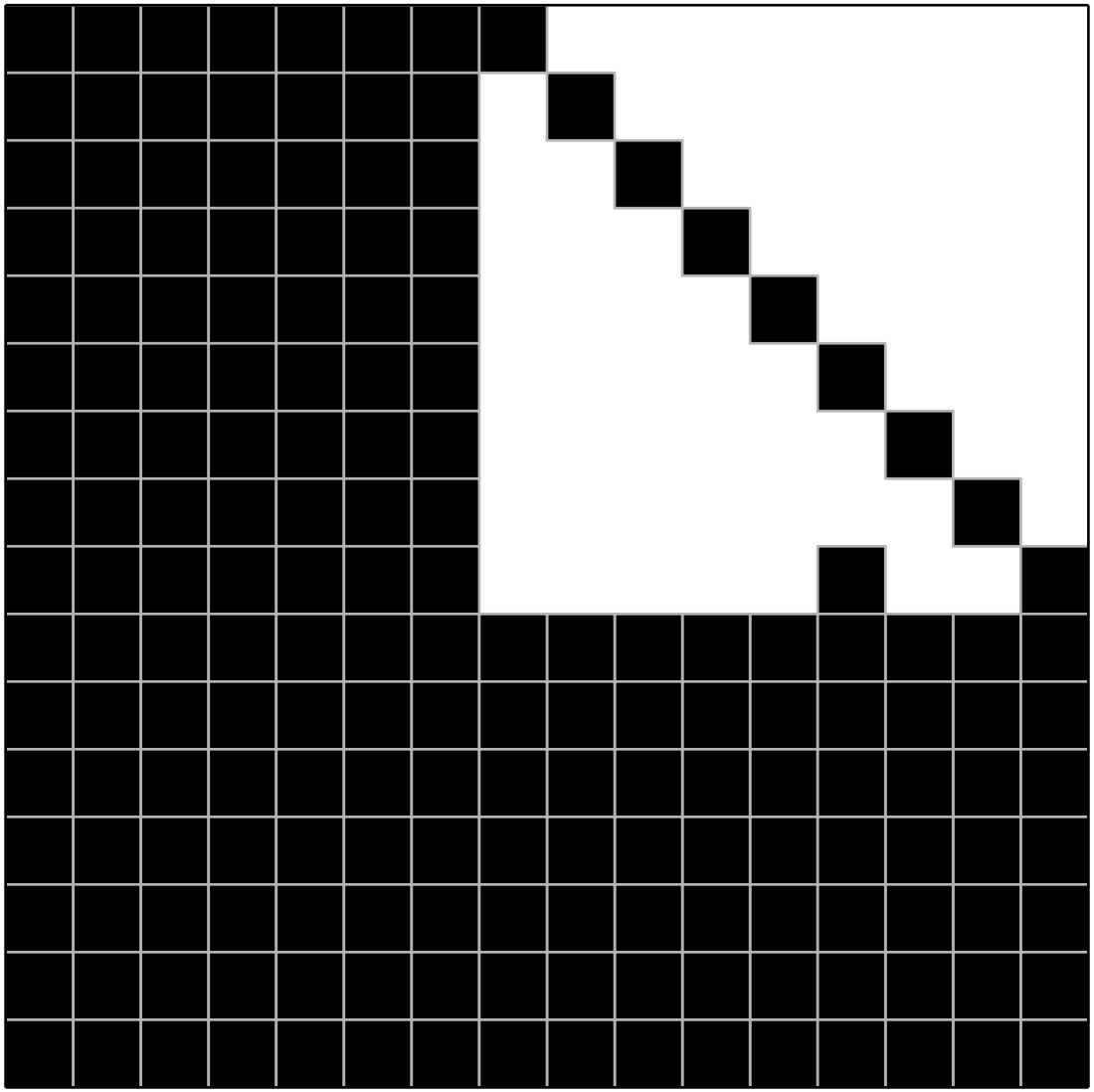
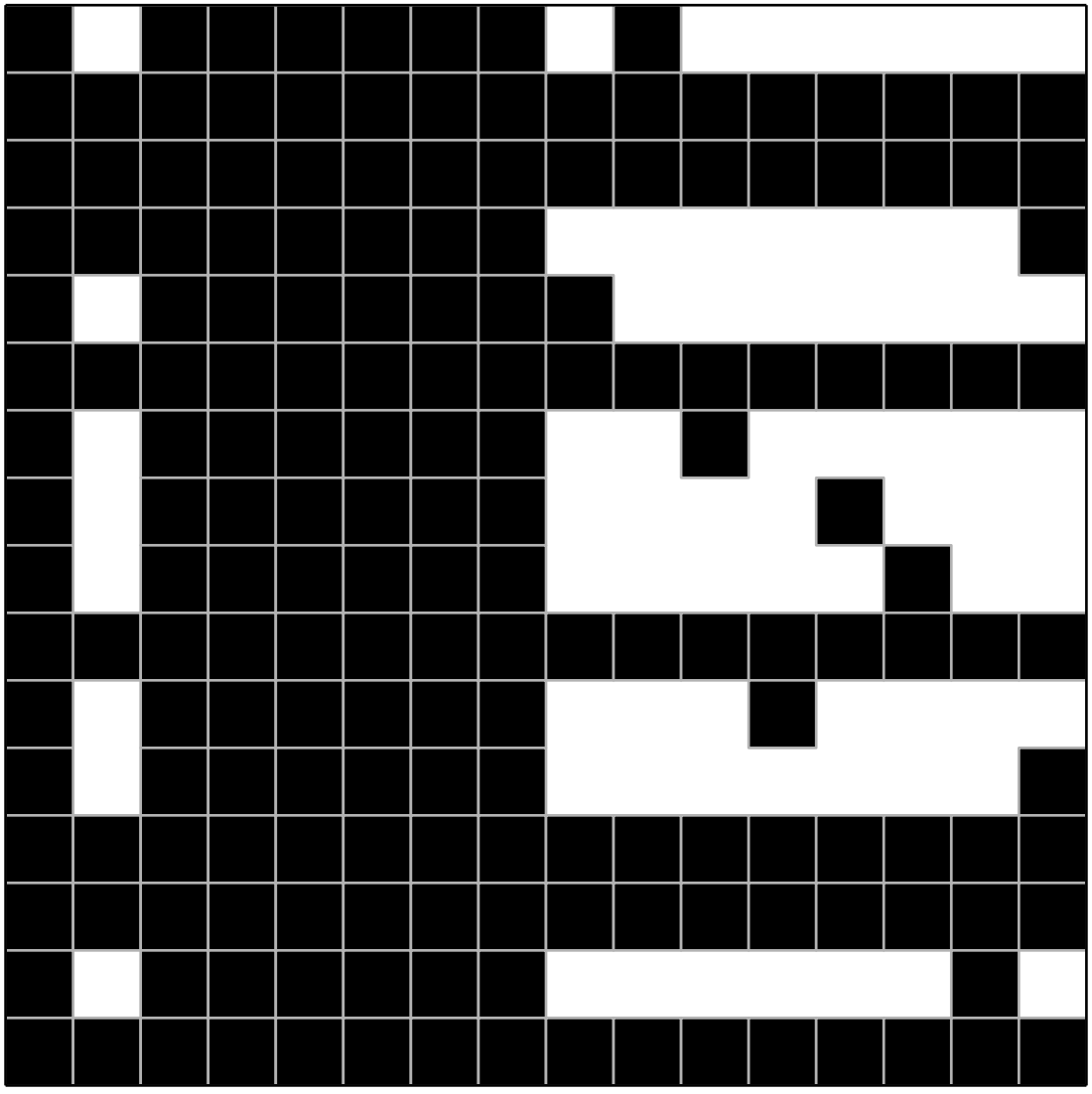
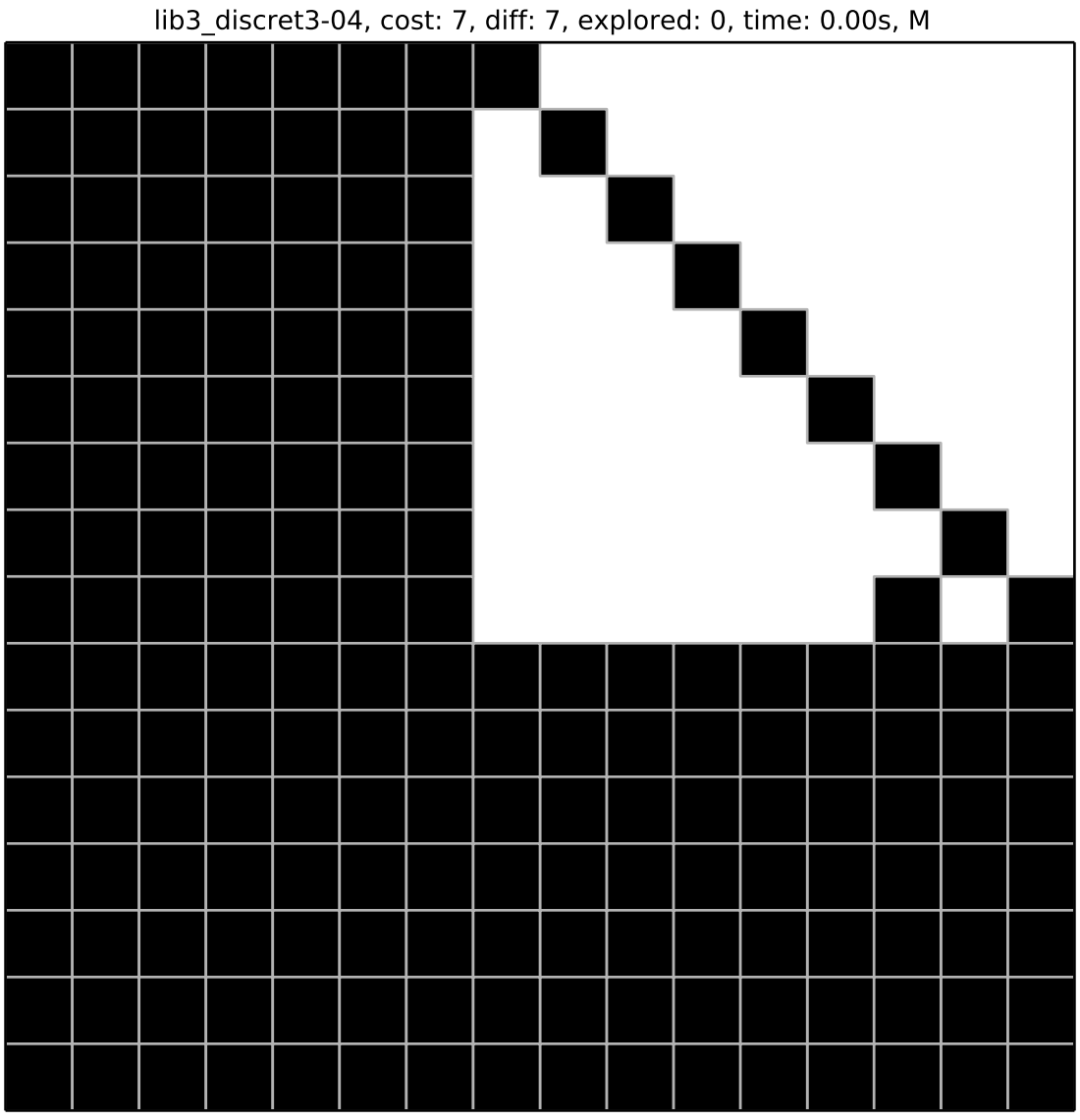


lib3_discret3-04 16x16 (185) con: 8, var: 8

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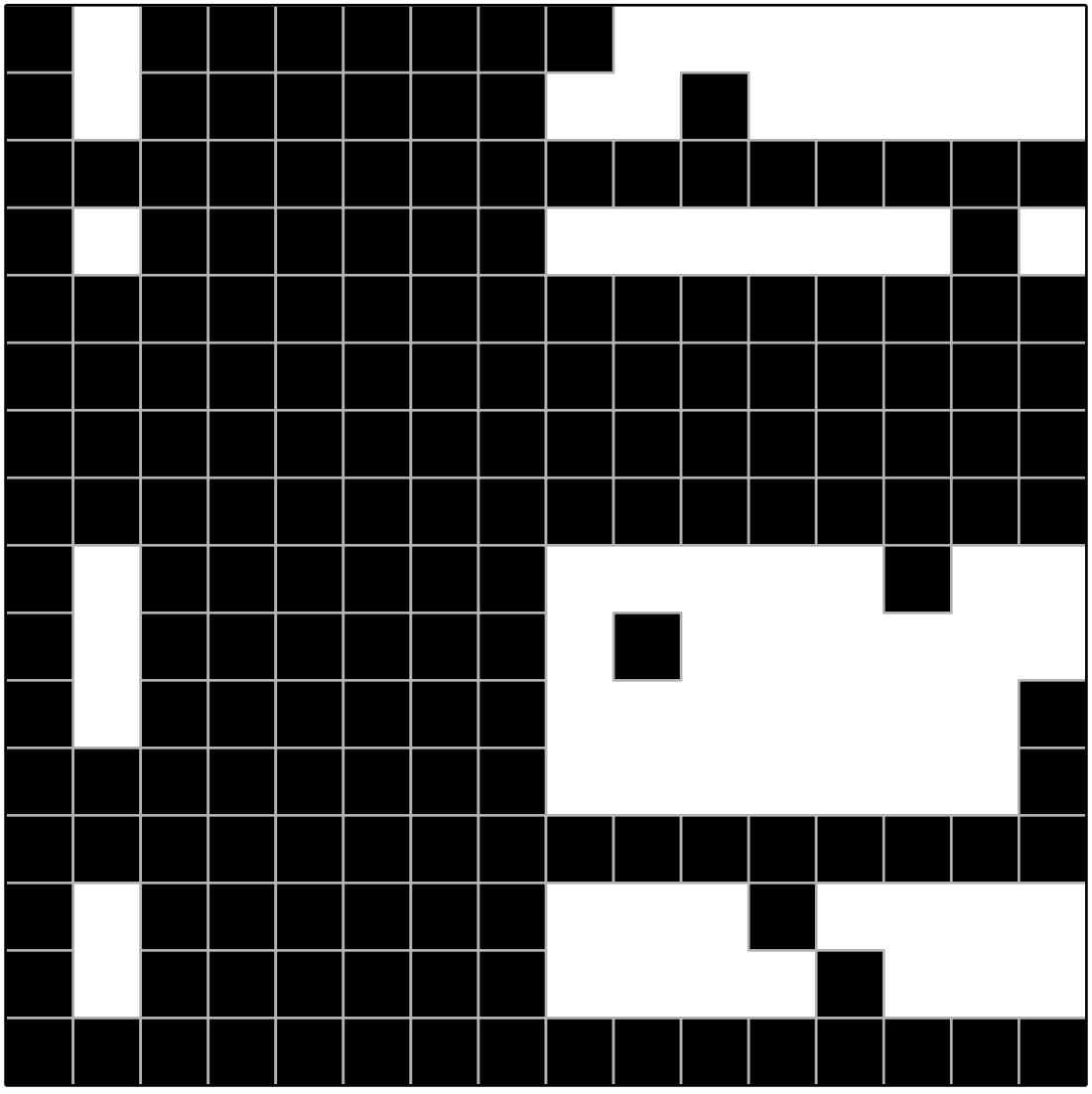

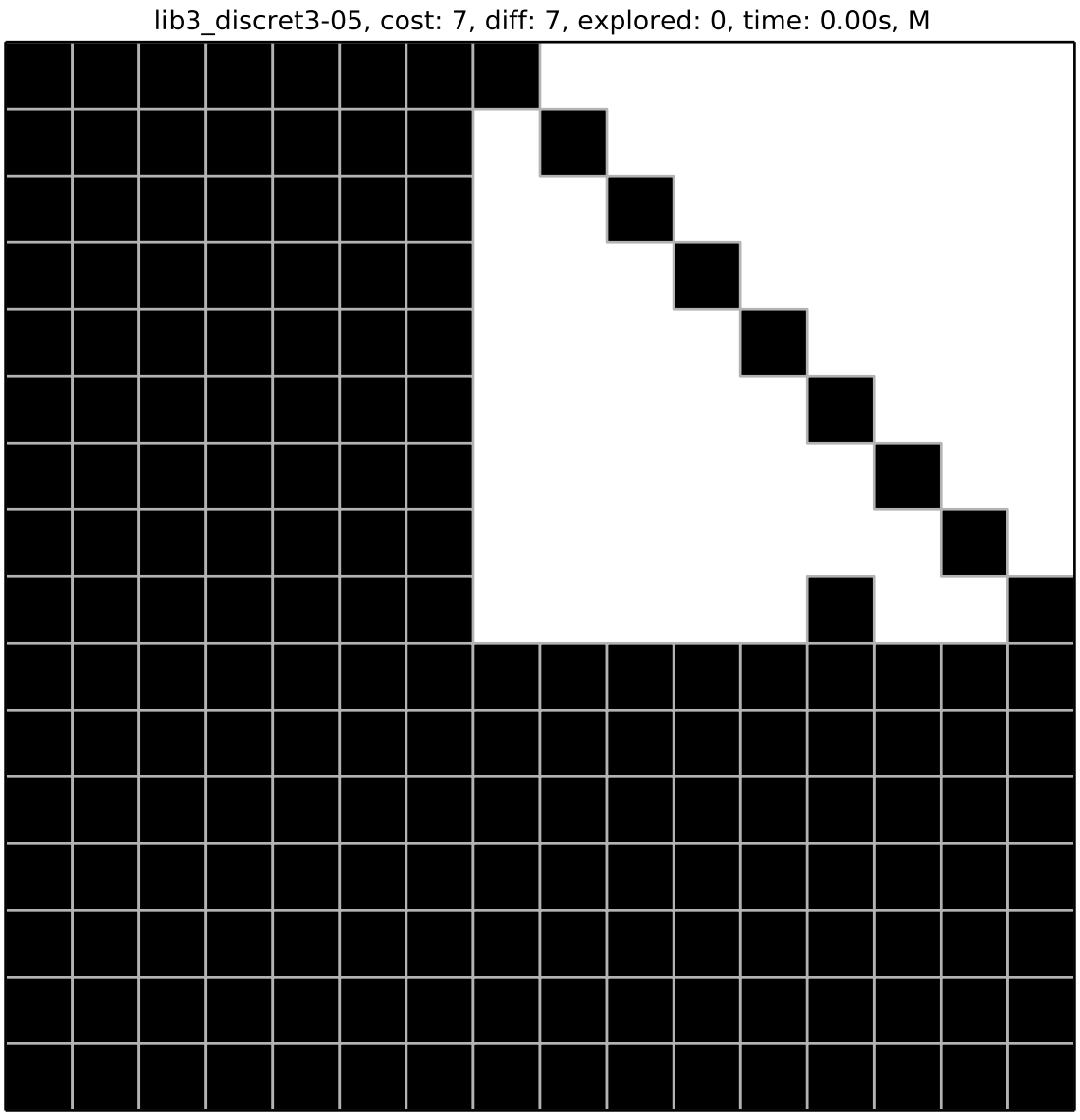
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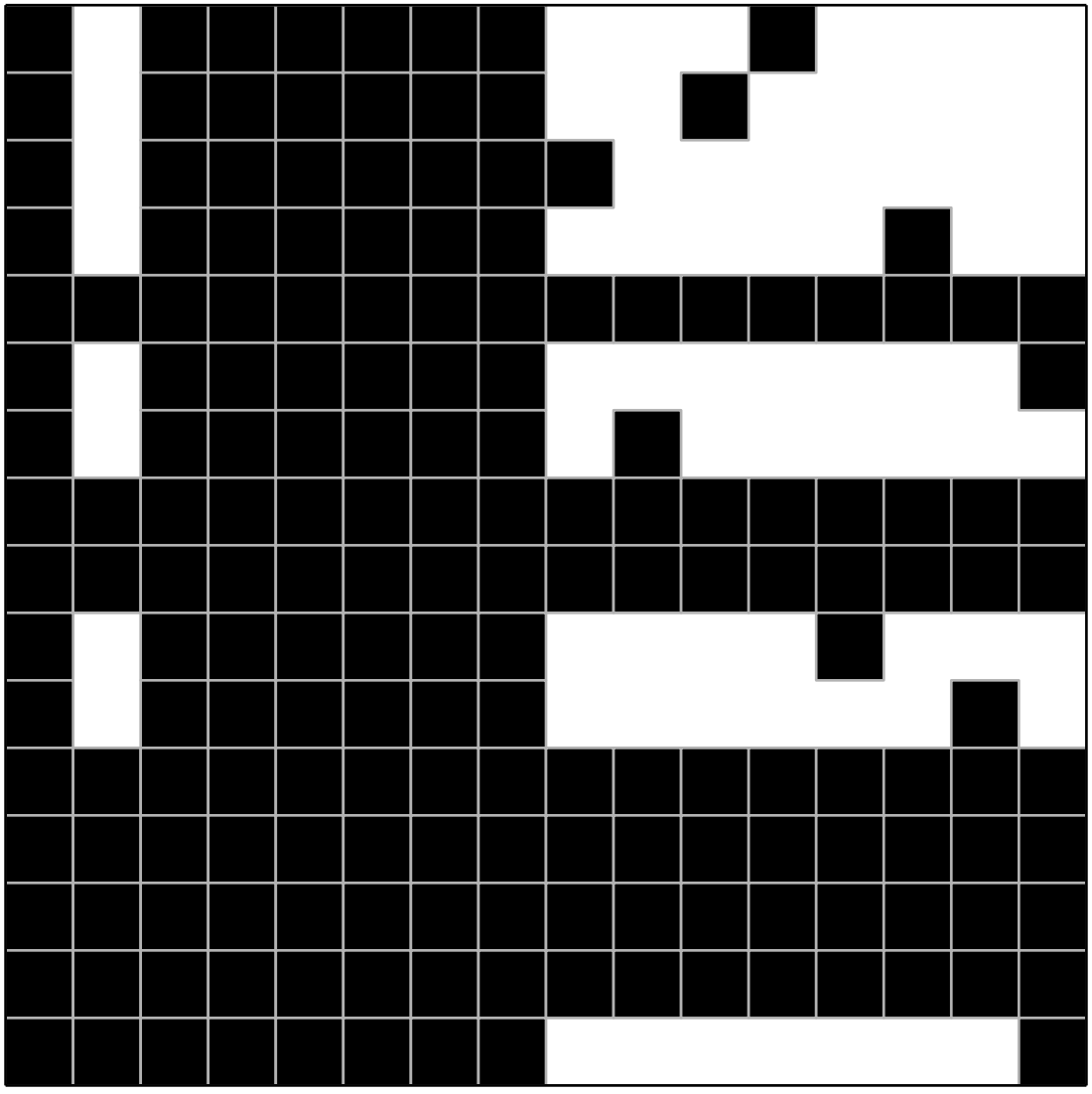

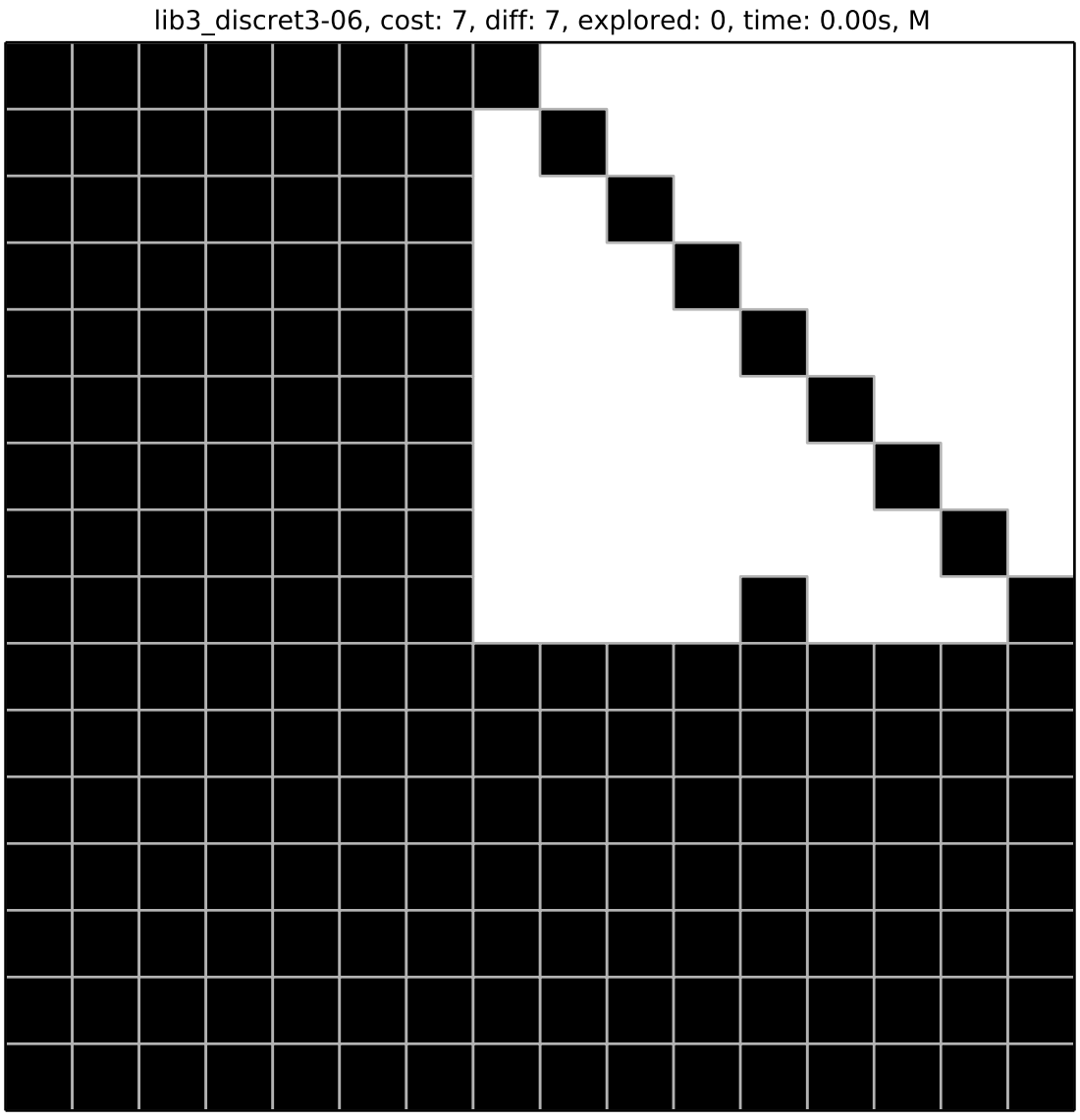
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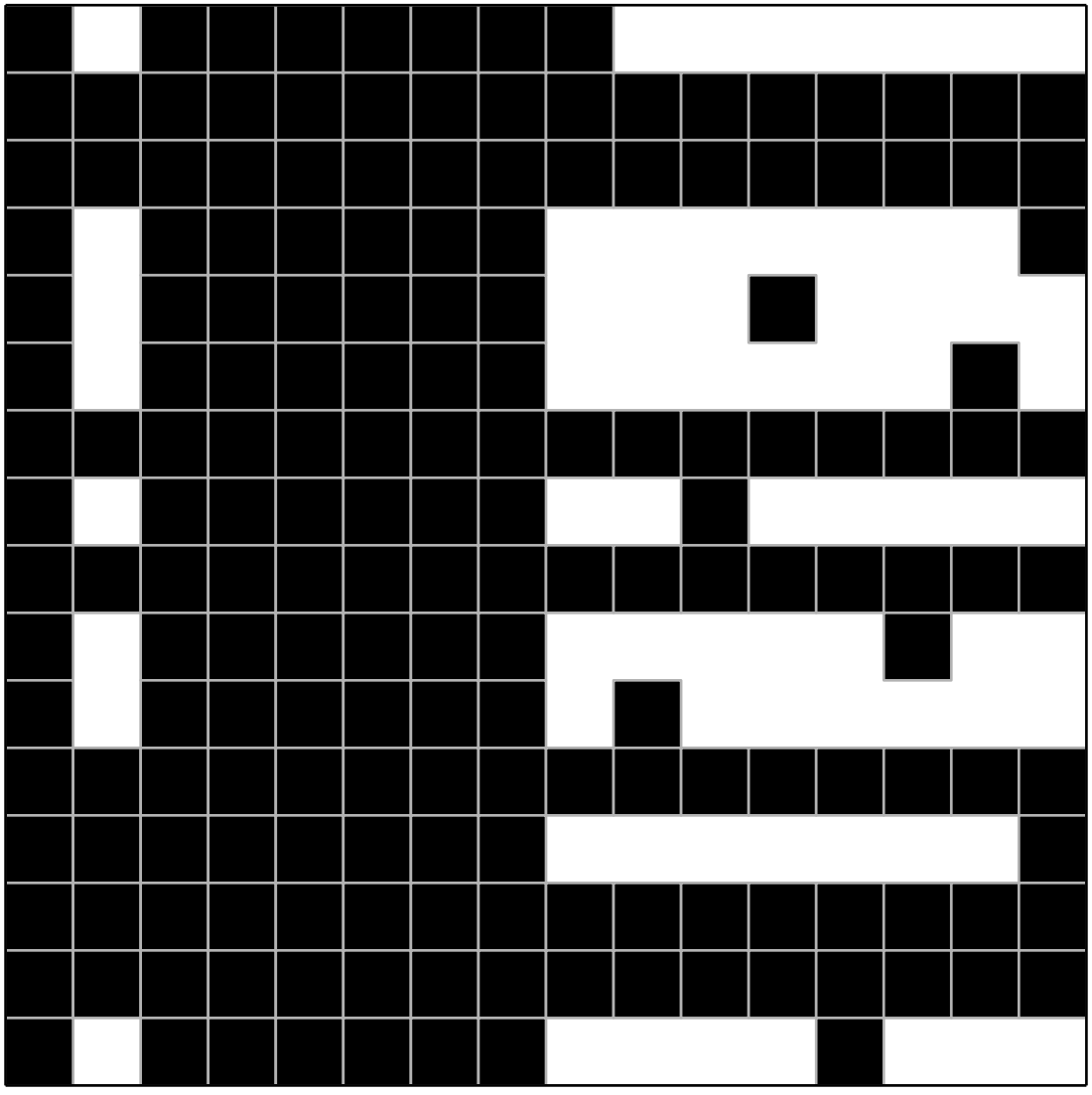

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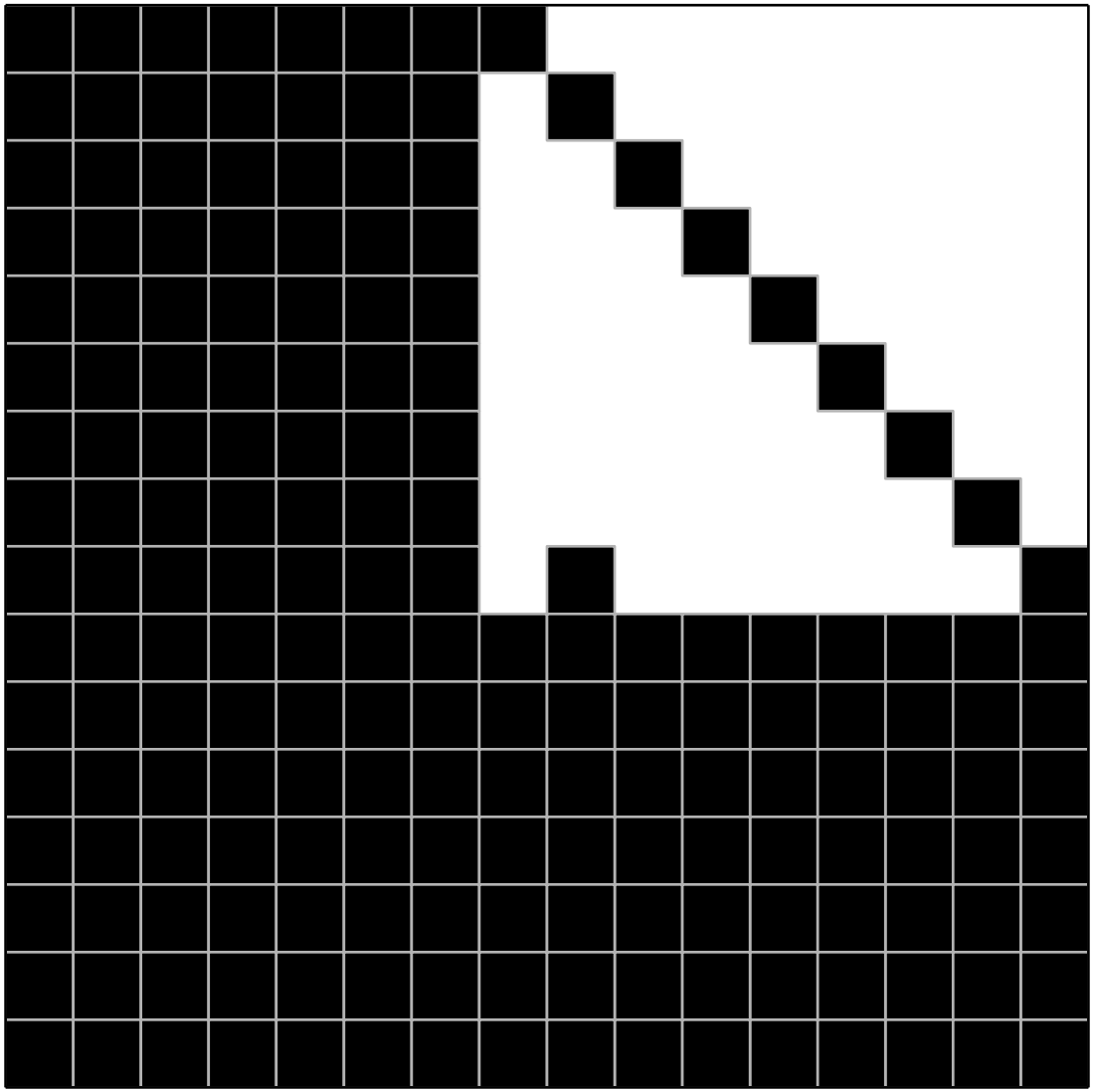
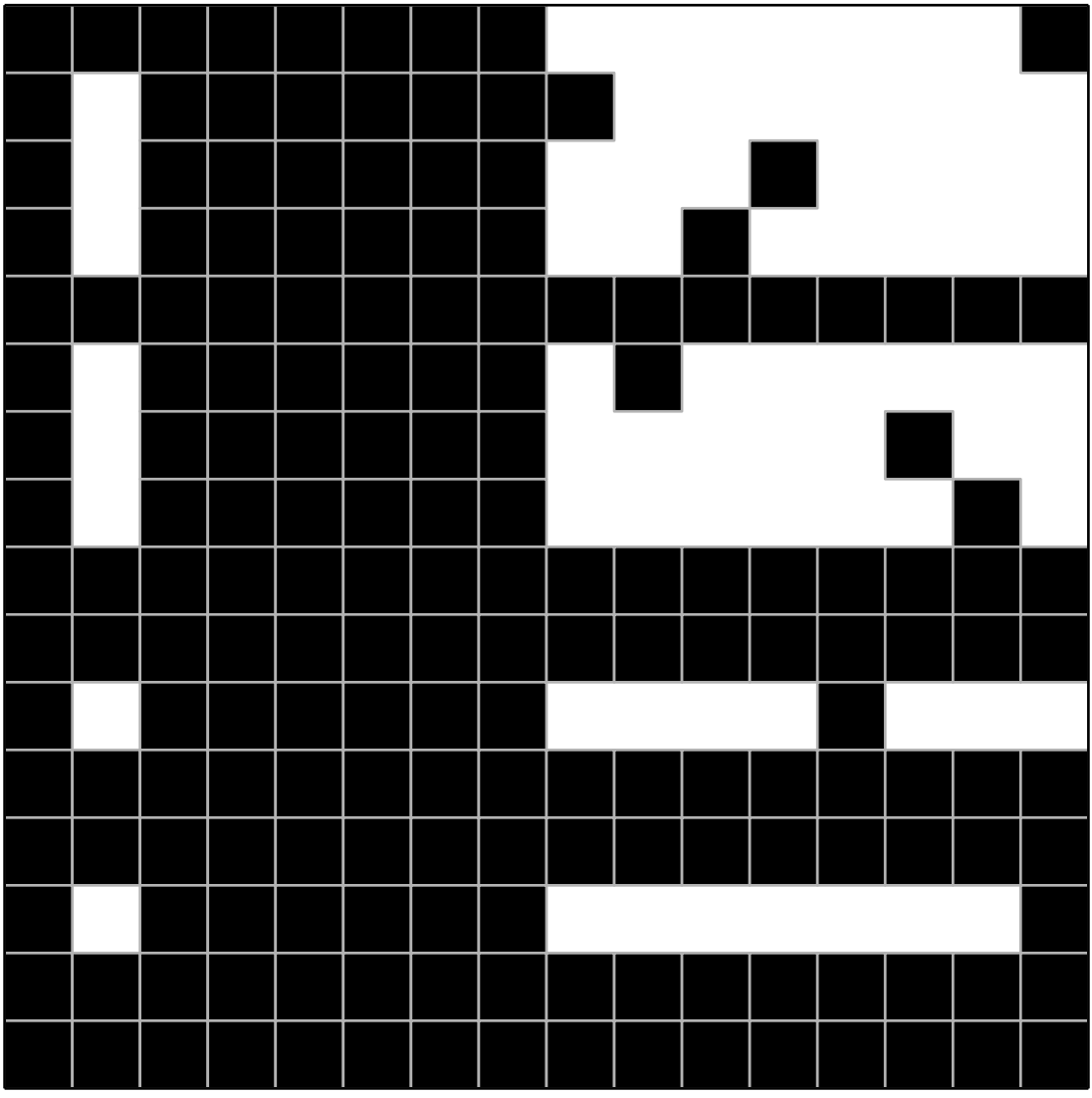
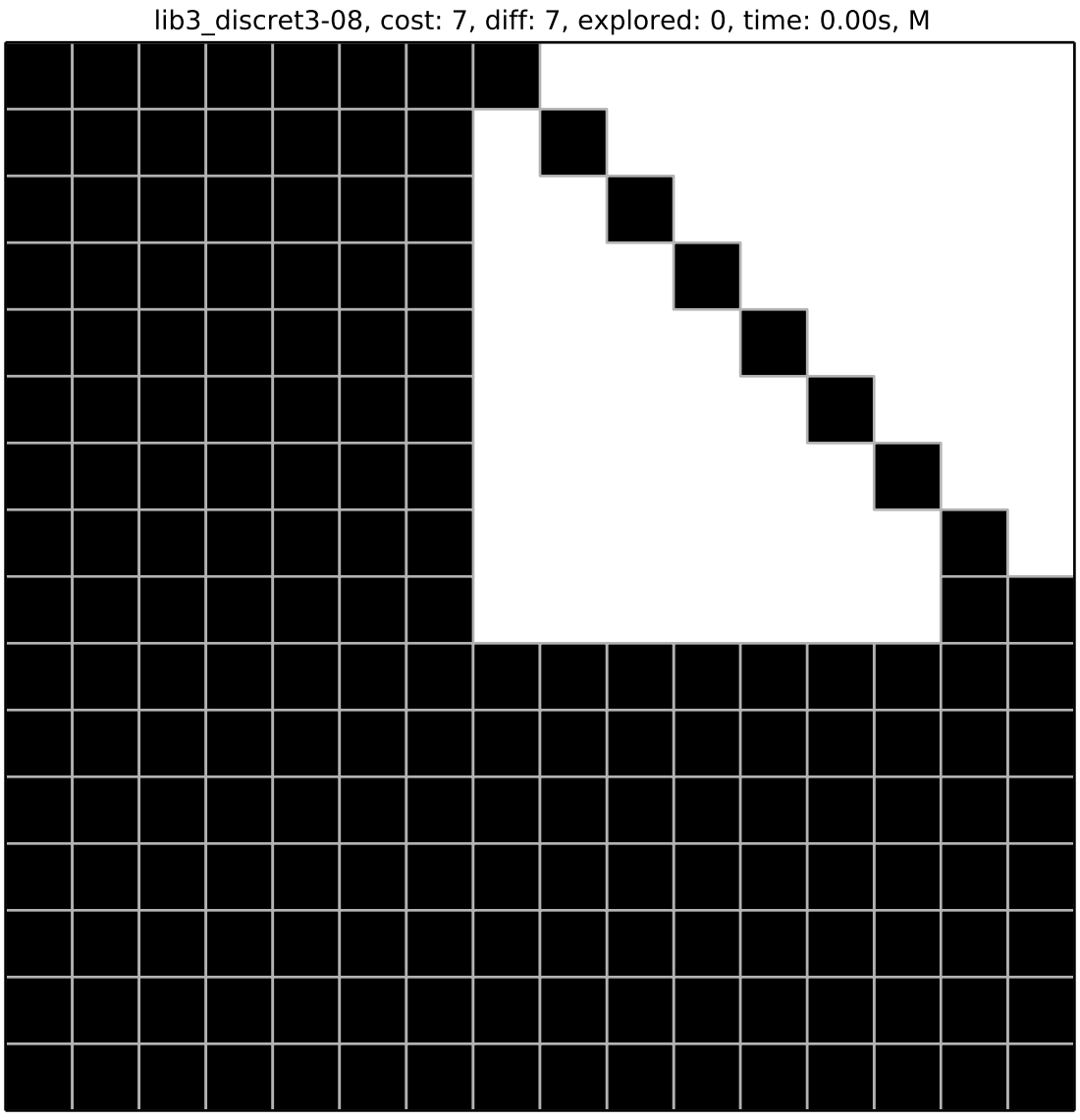


lib3_discret3-08 16x16 (185) con: 8, var: 8

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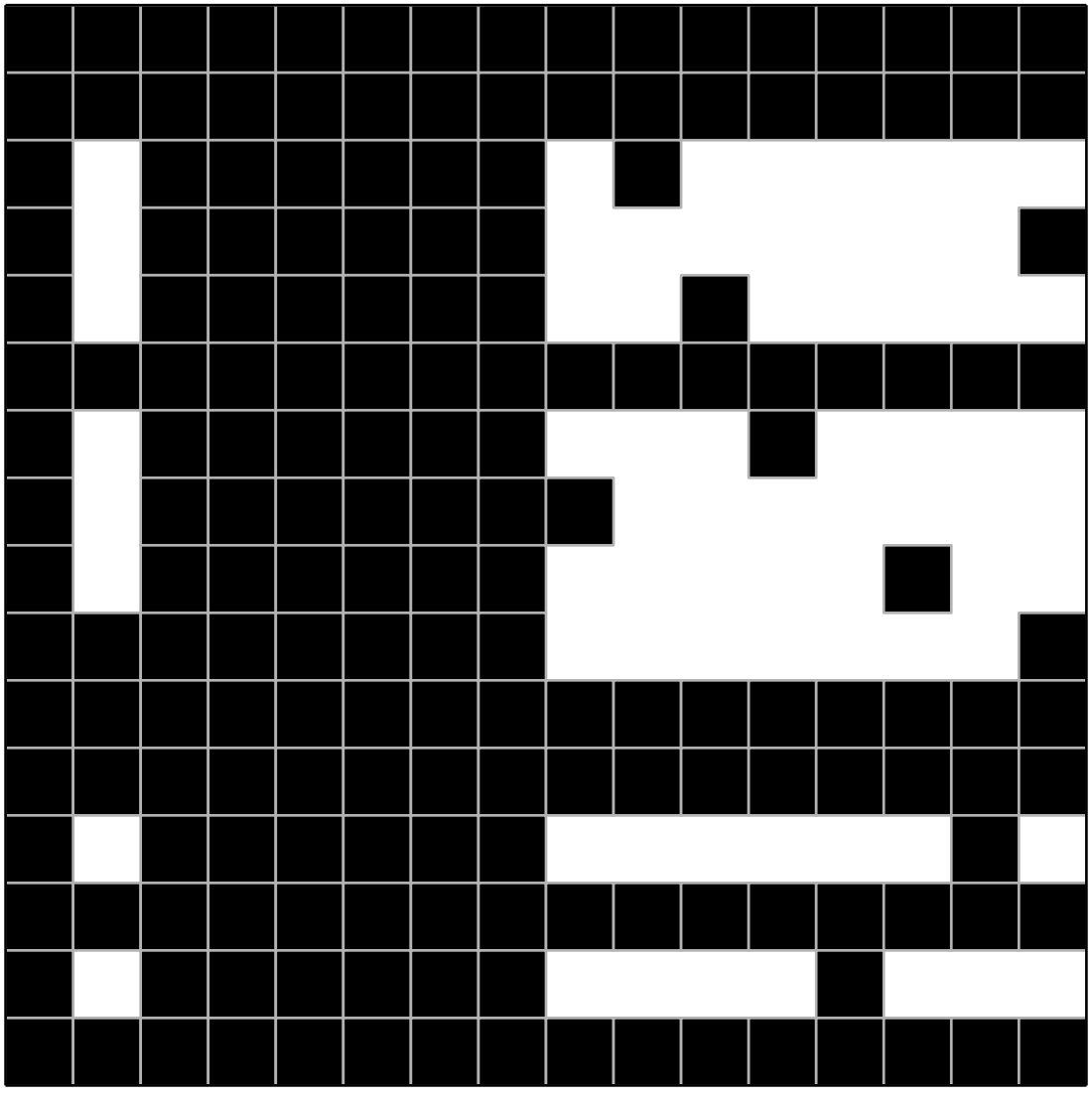
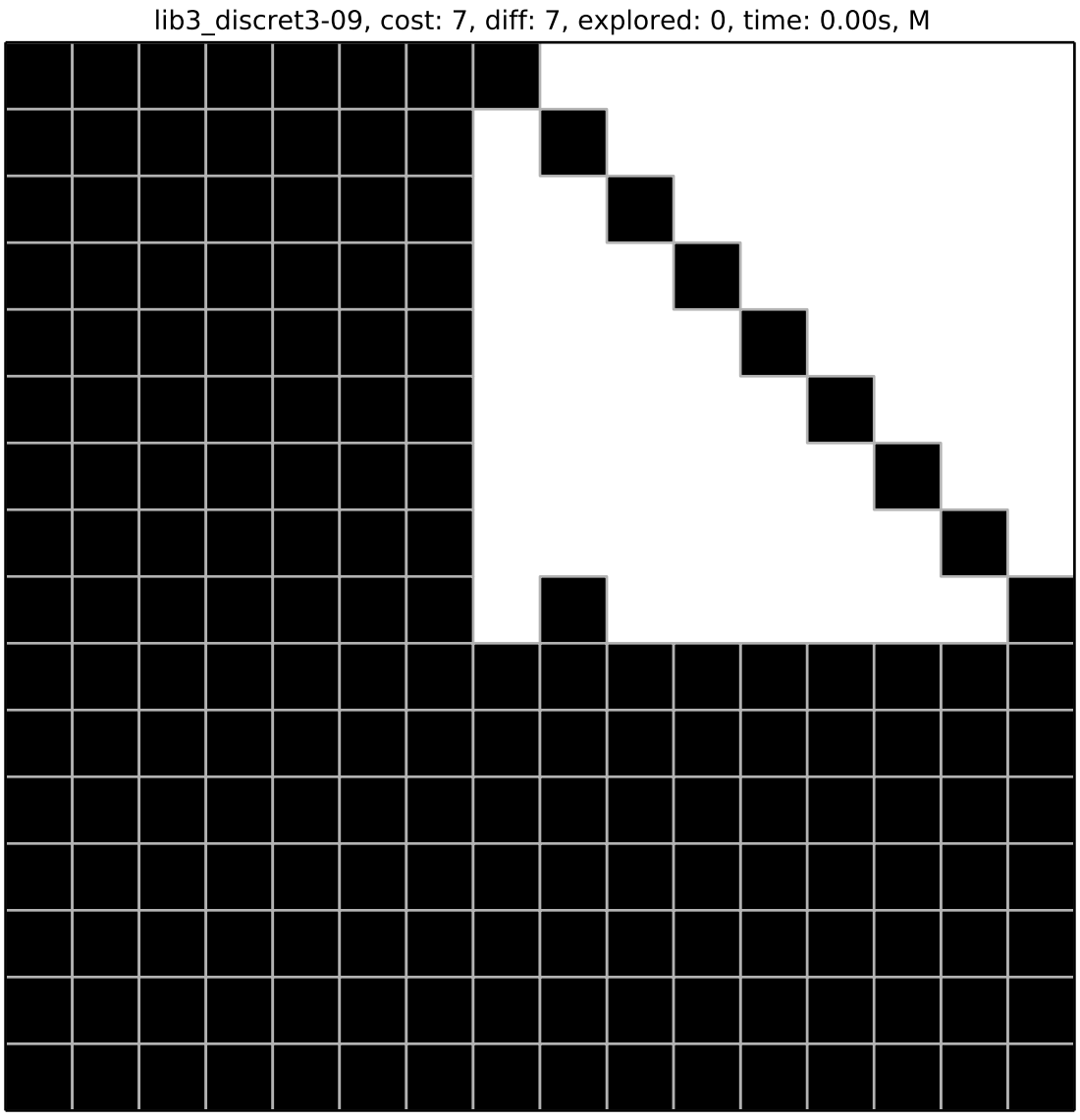
lib3_discret3-09 16x16 (185) con: 8, var: 8

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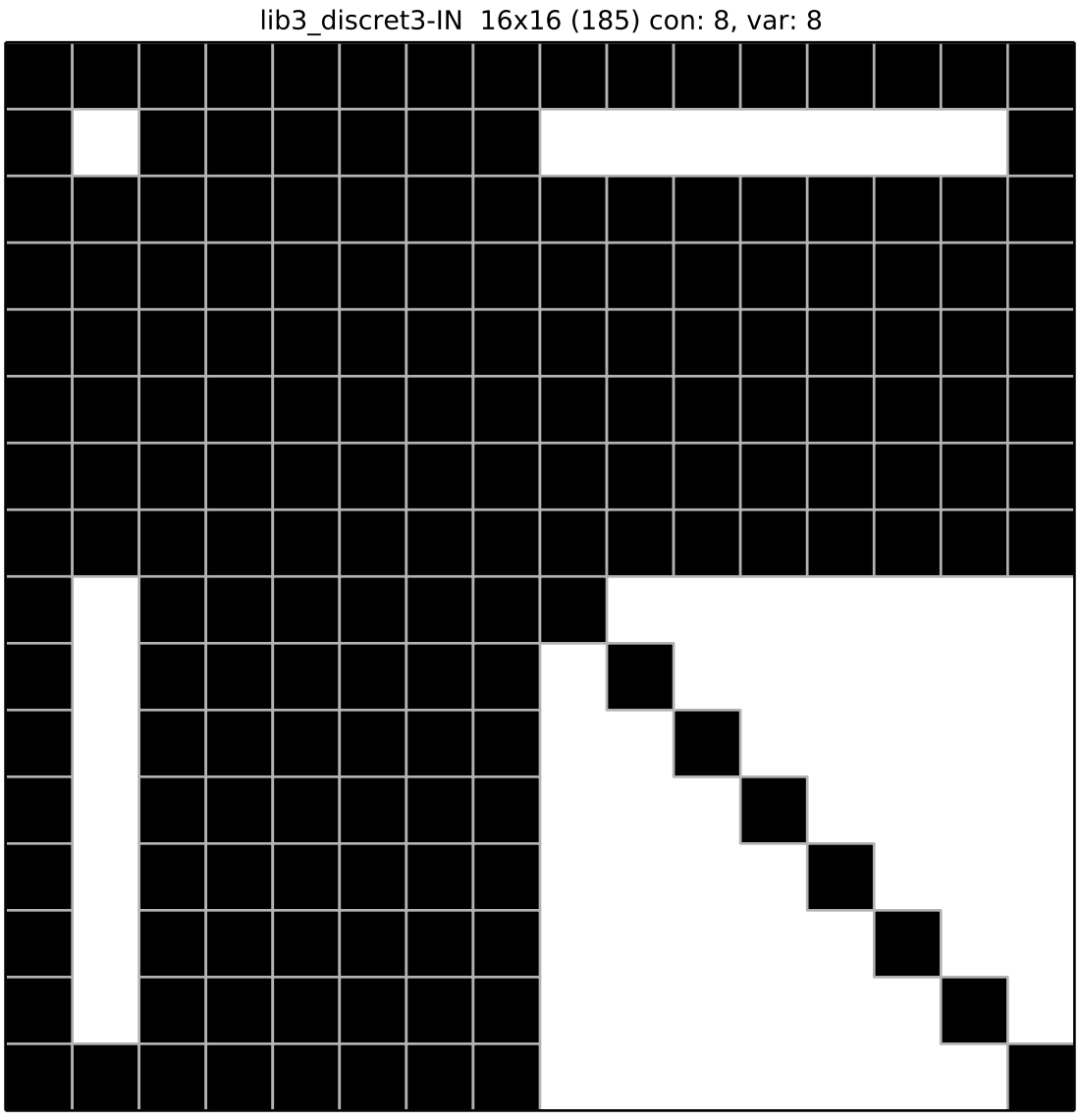
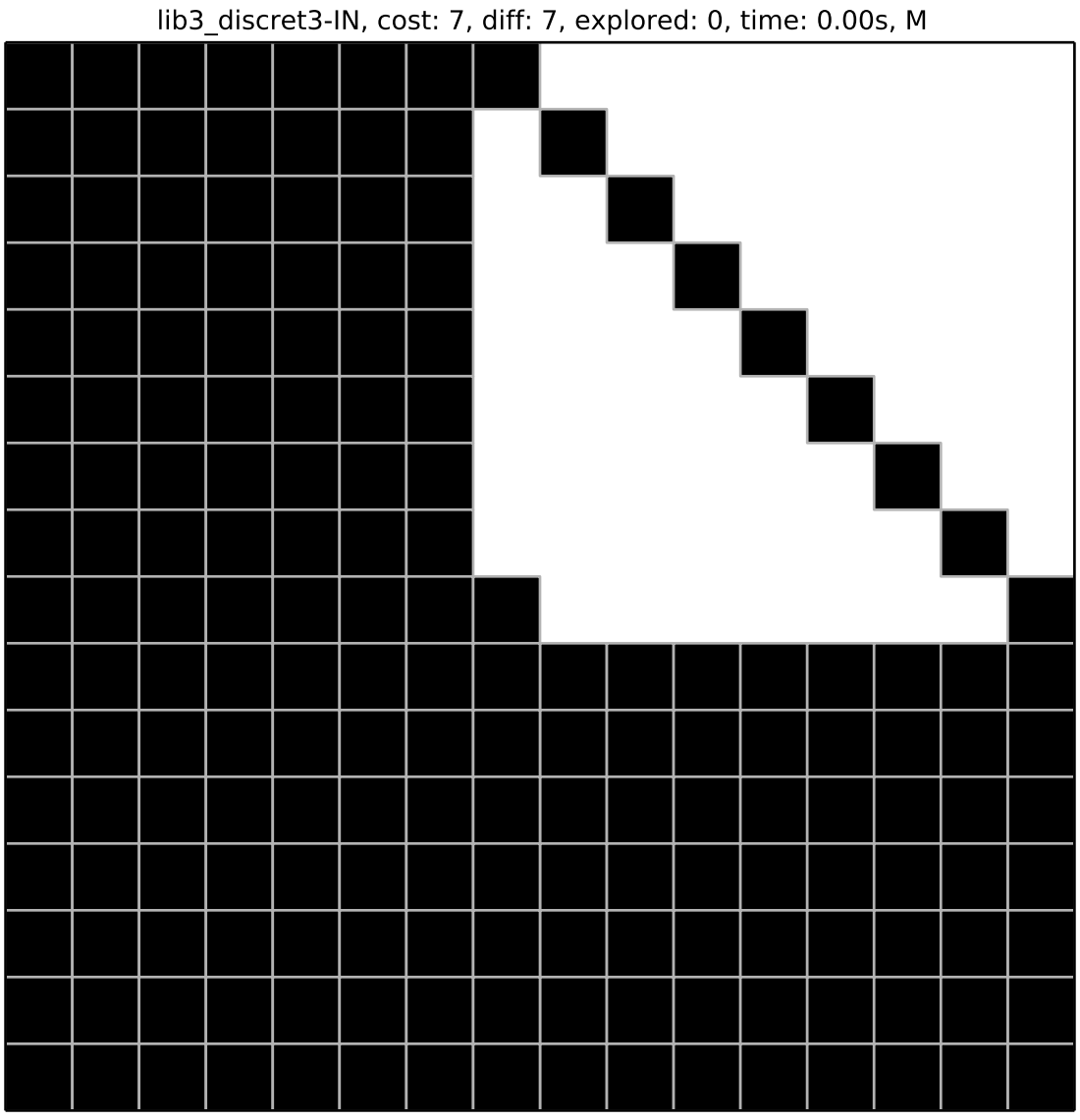

lib3_discret3-IN 16x16 (185) con: 8, var: 8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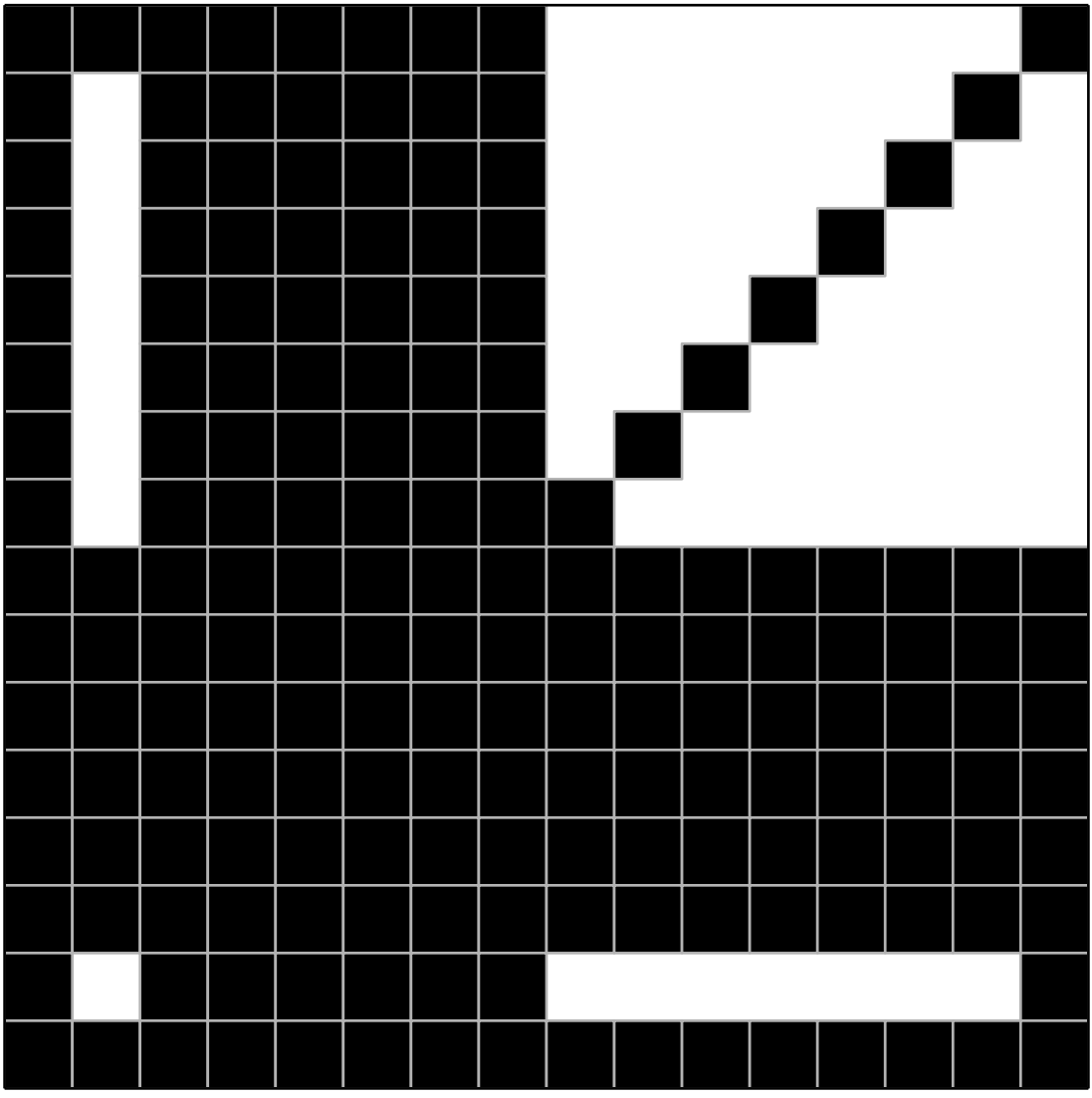
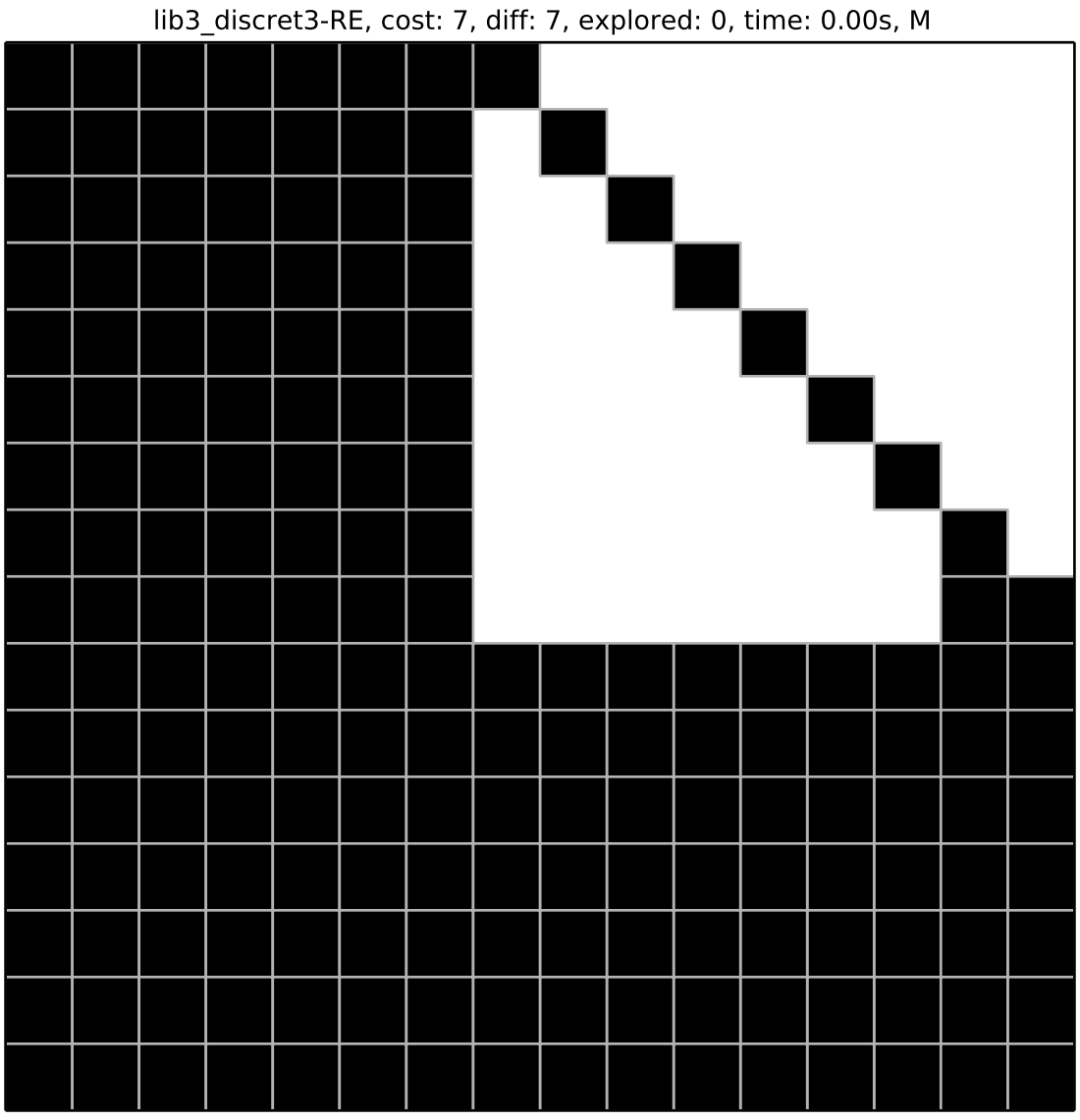
lib3_discret3-RE 16x16 (185) con: 8, var: 8

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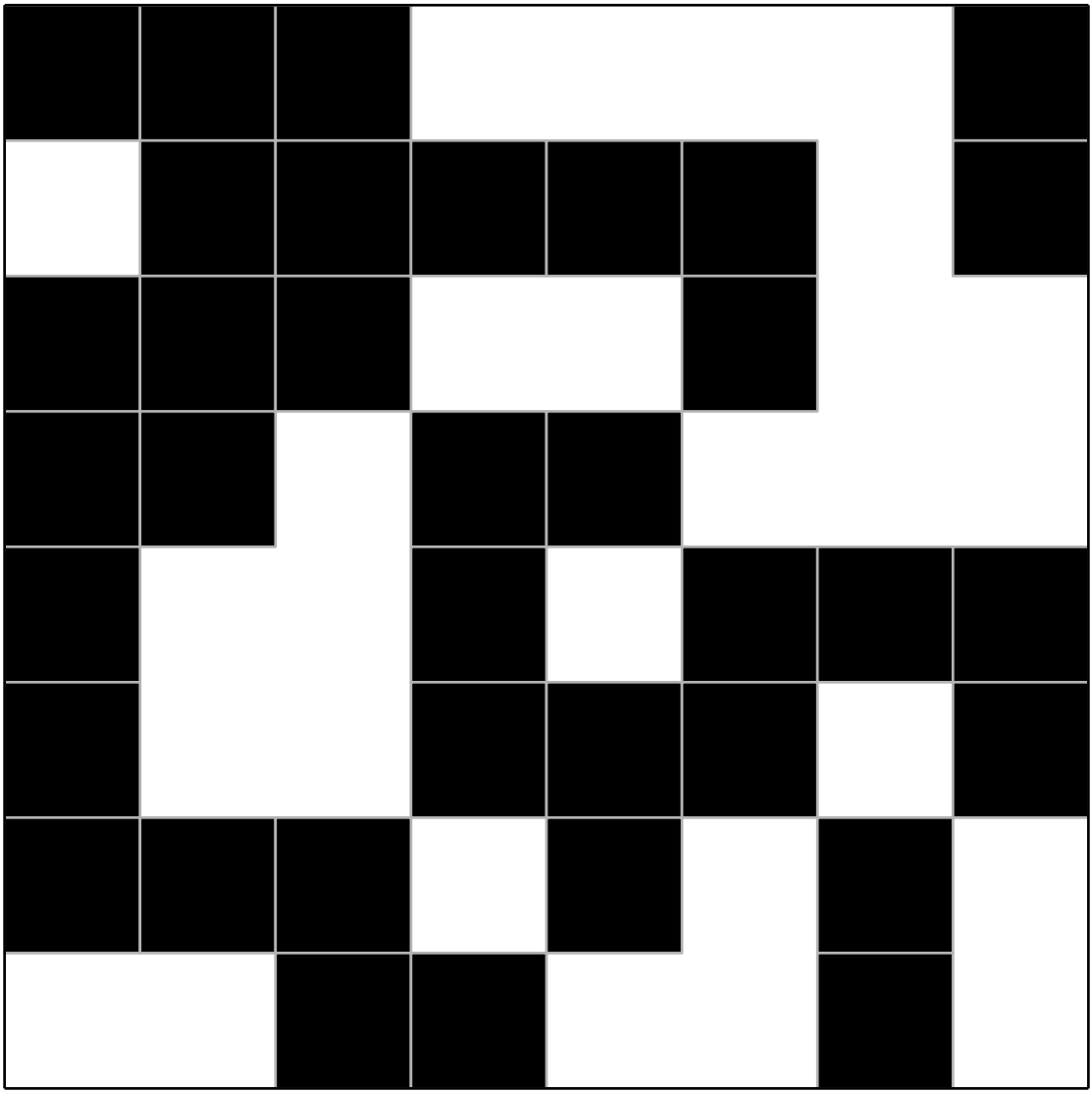
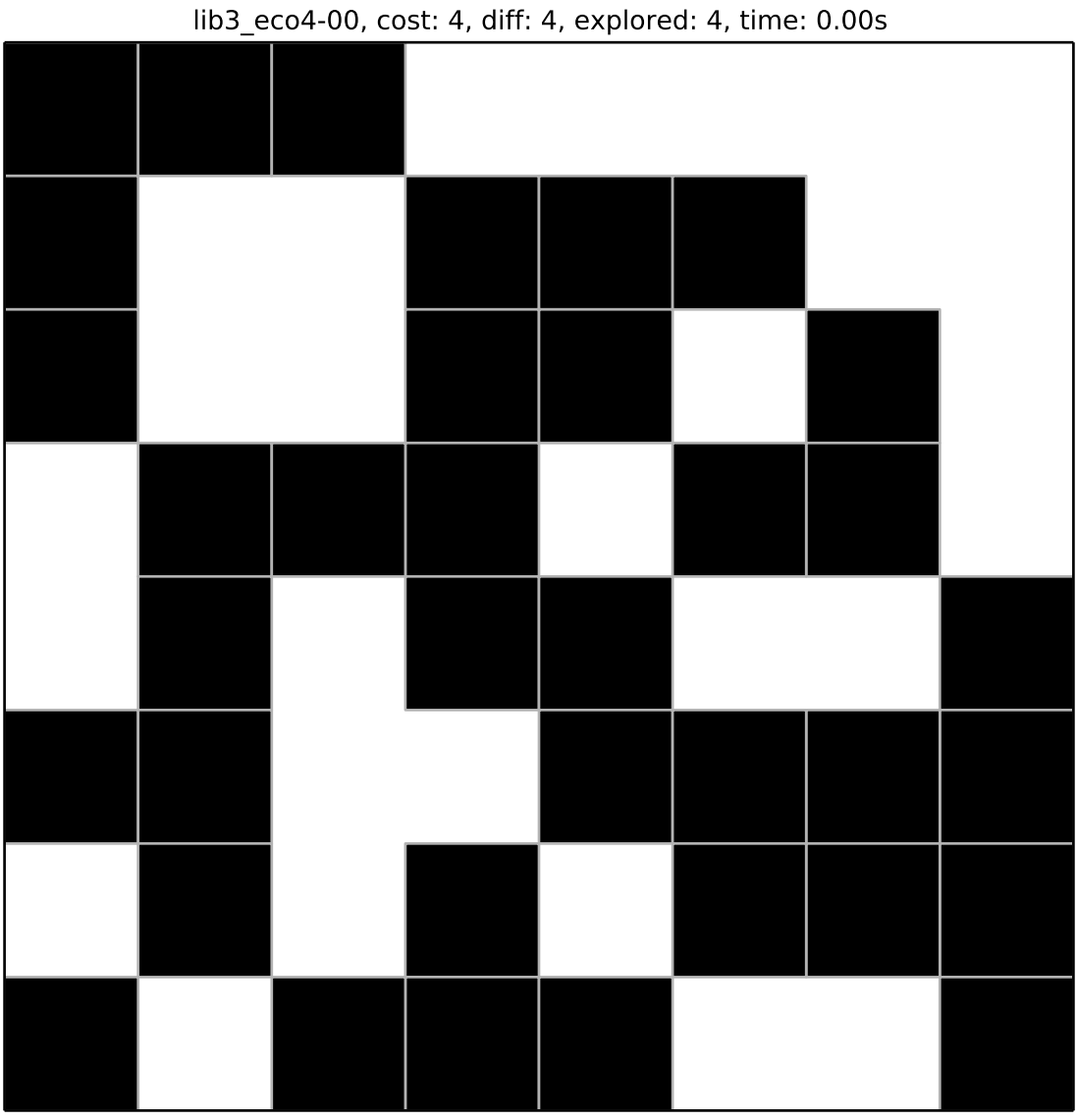
lib3_eco4-00 8x8 (36) con: 4, var: 4

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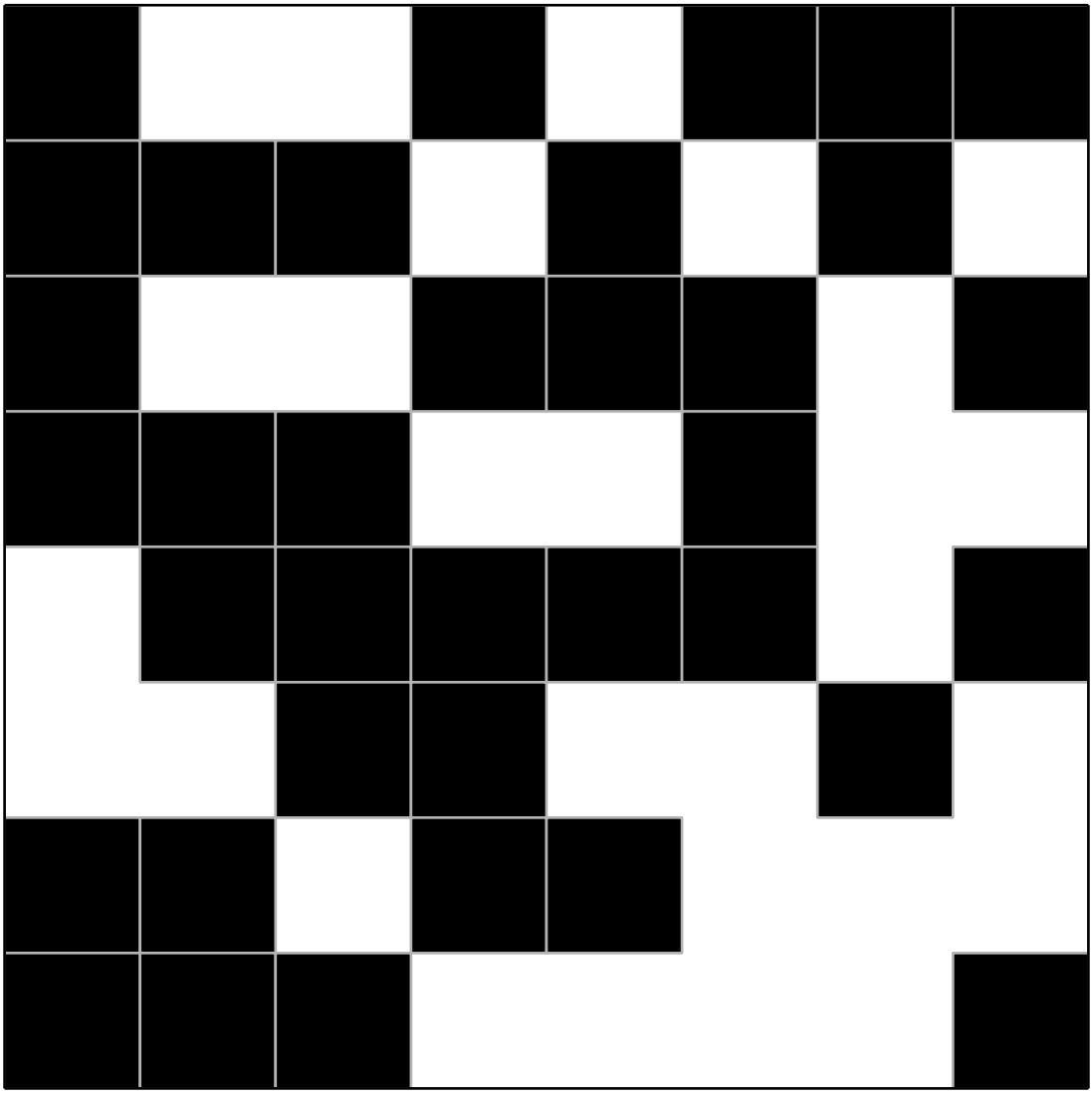
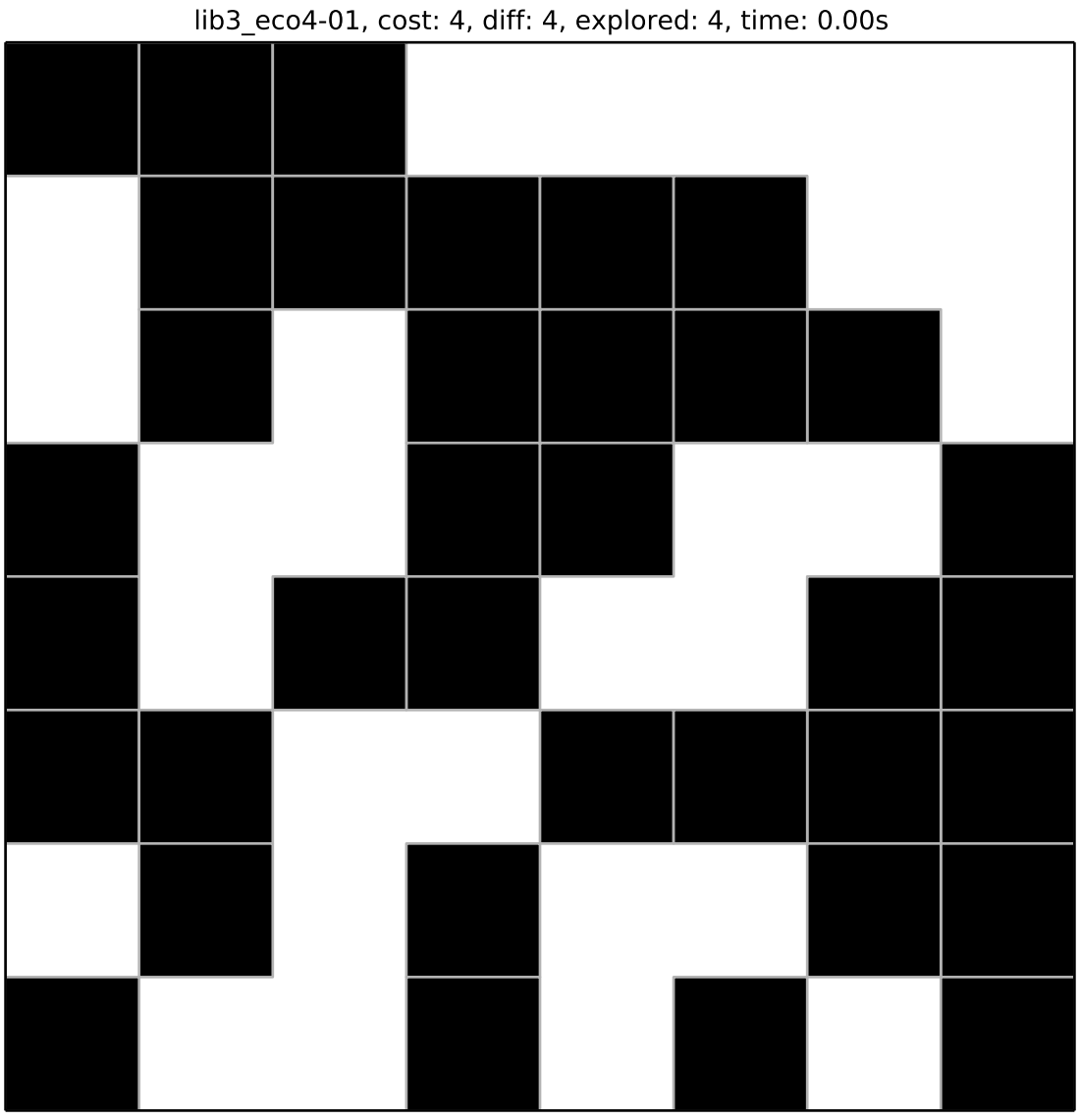
lib3_eco4-01 8x8 (36) con: 4, var: 4

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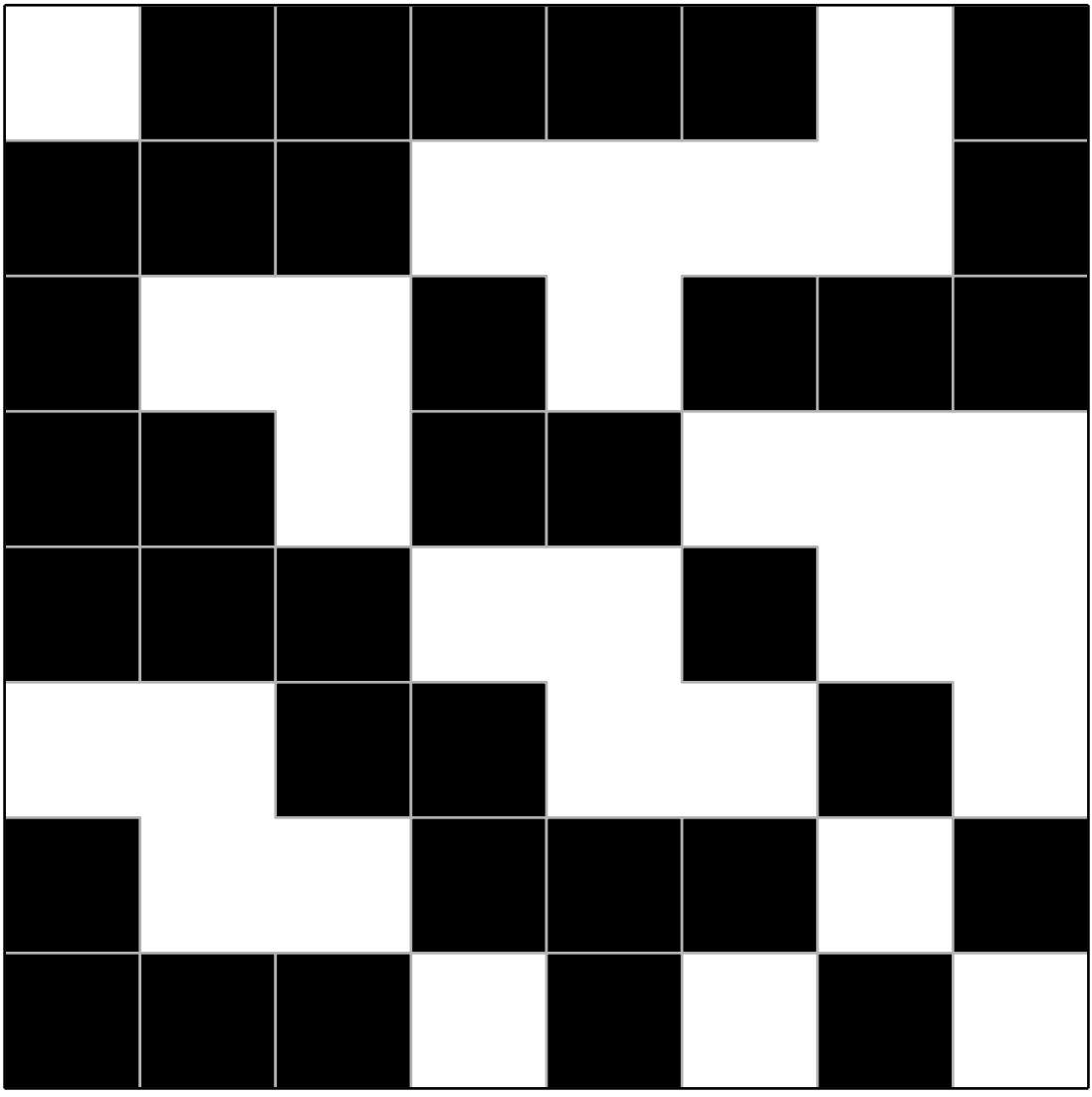
lib3_eco4-02 8x8 (36) con: 4, var: 4



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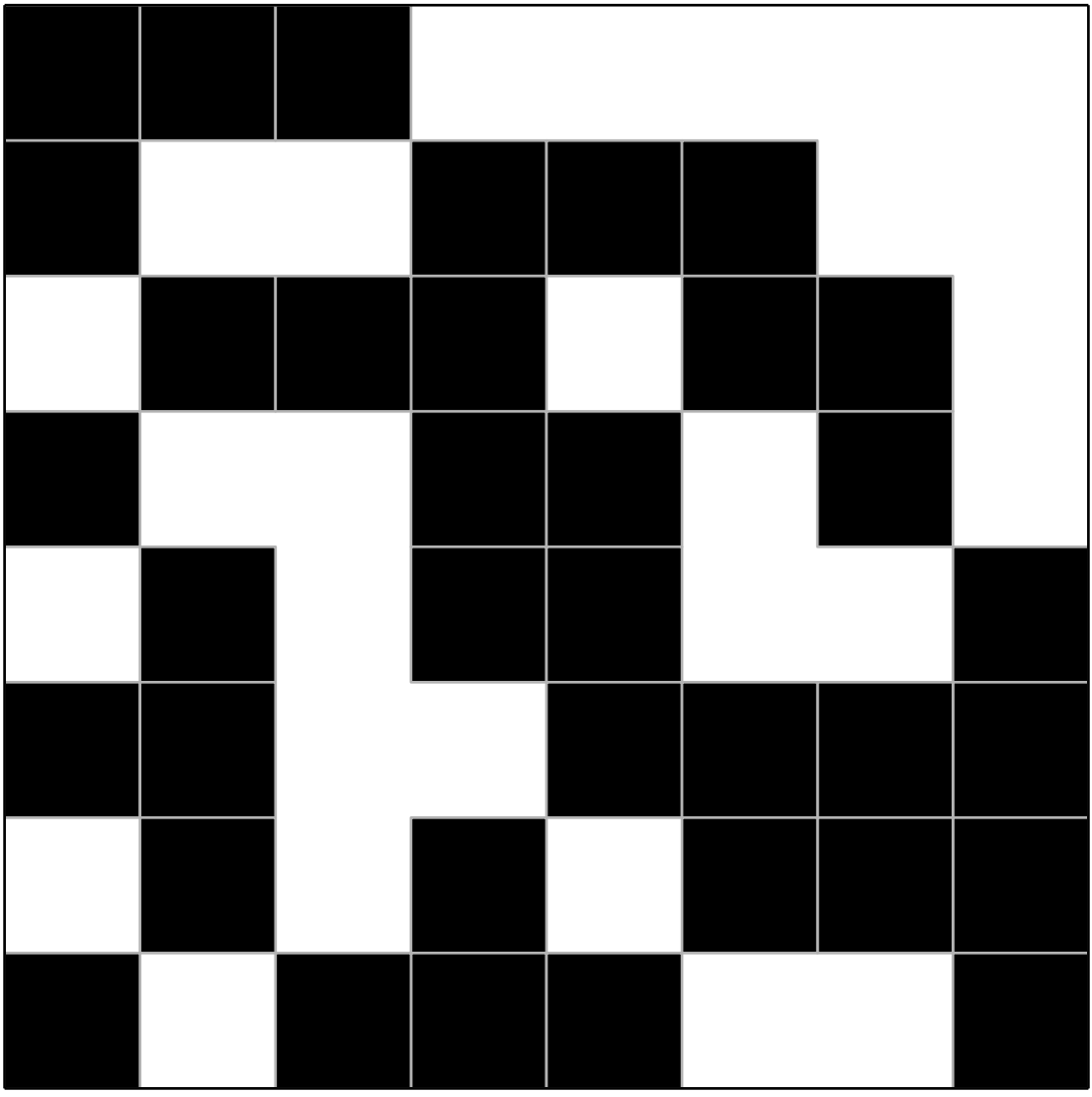

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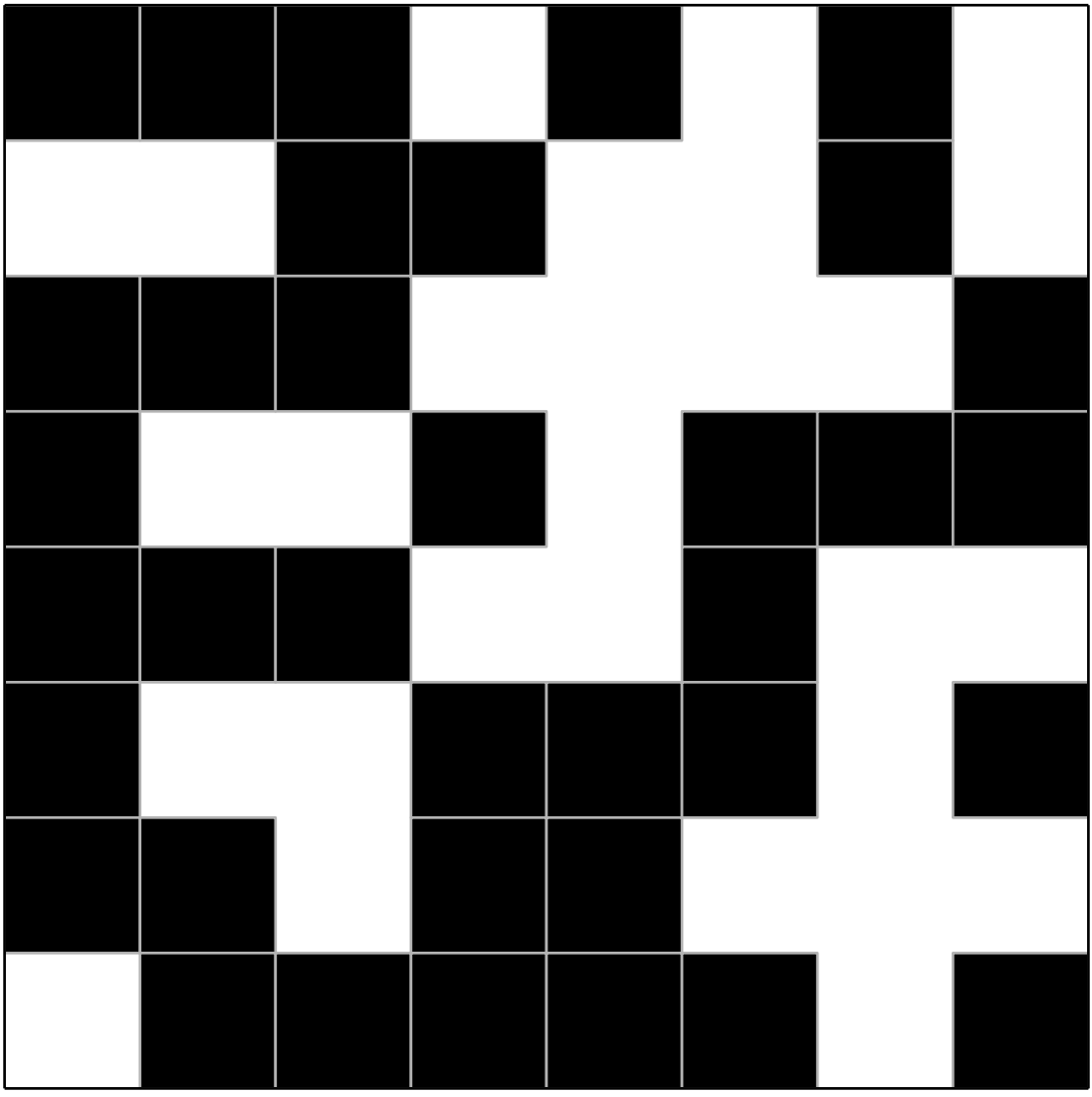

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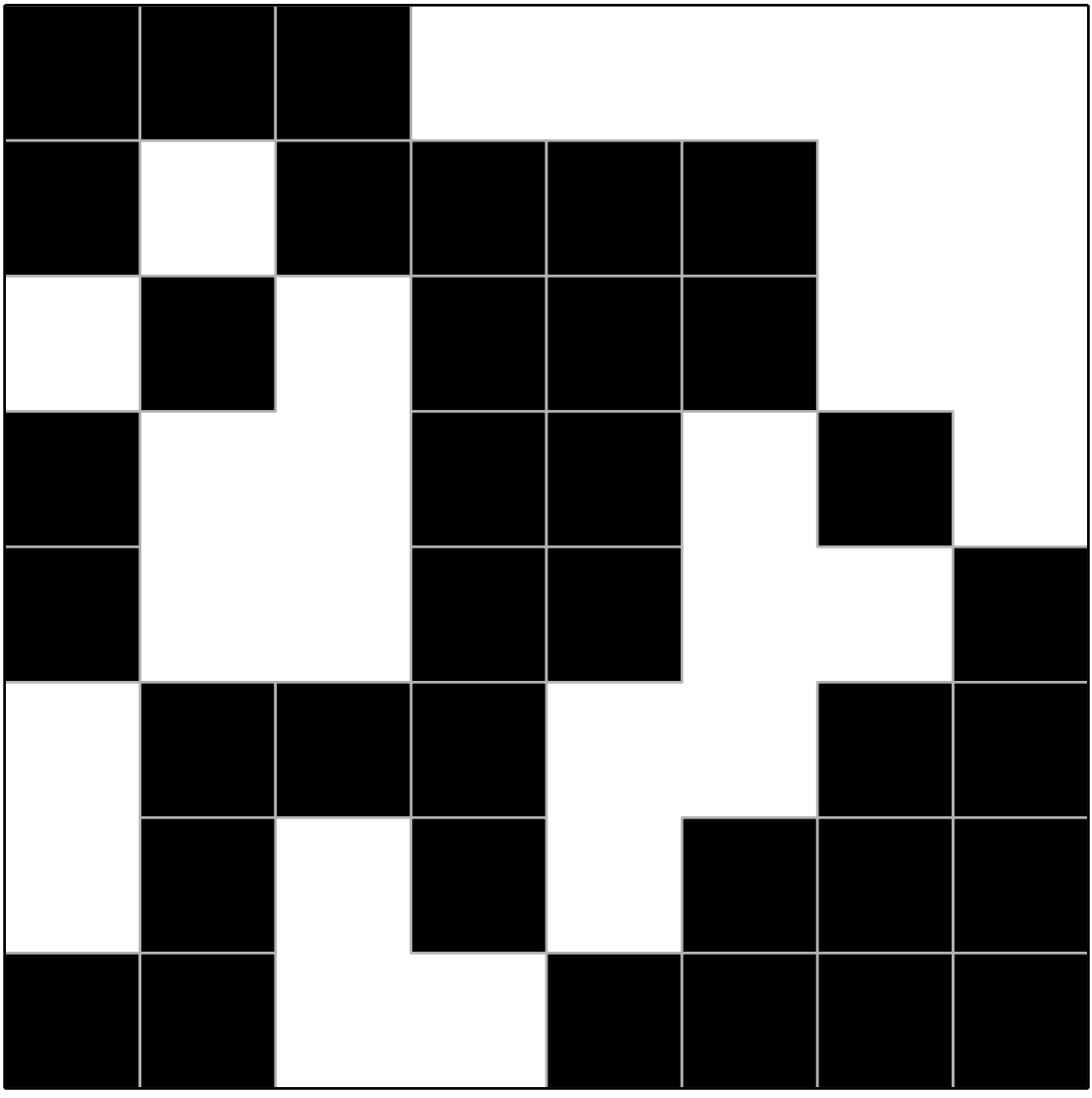
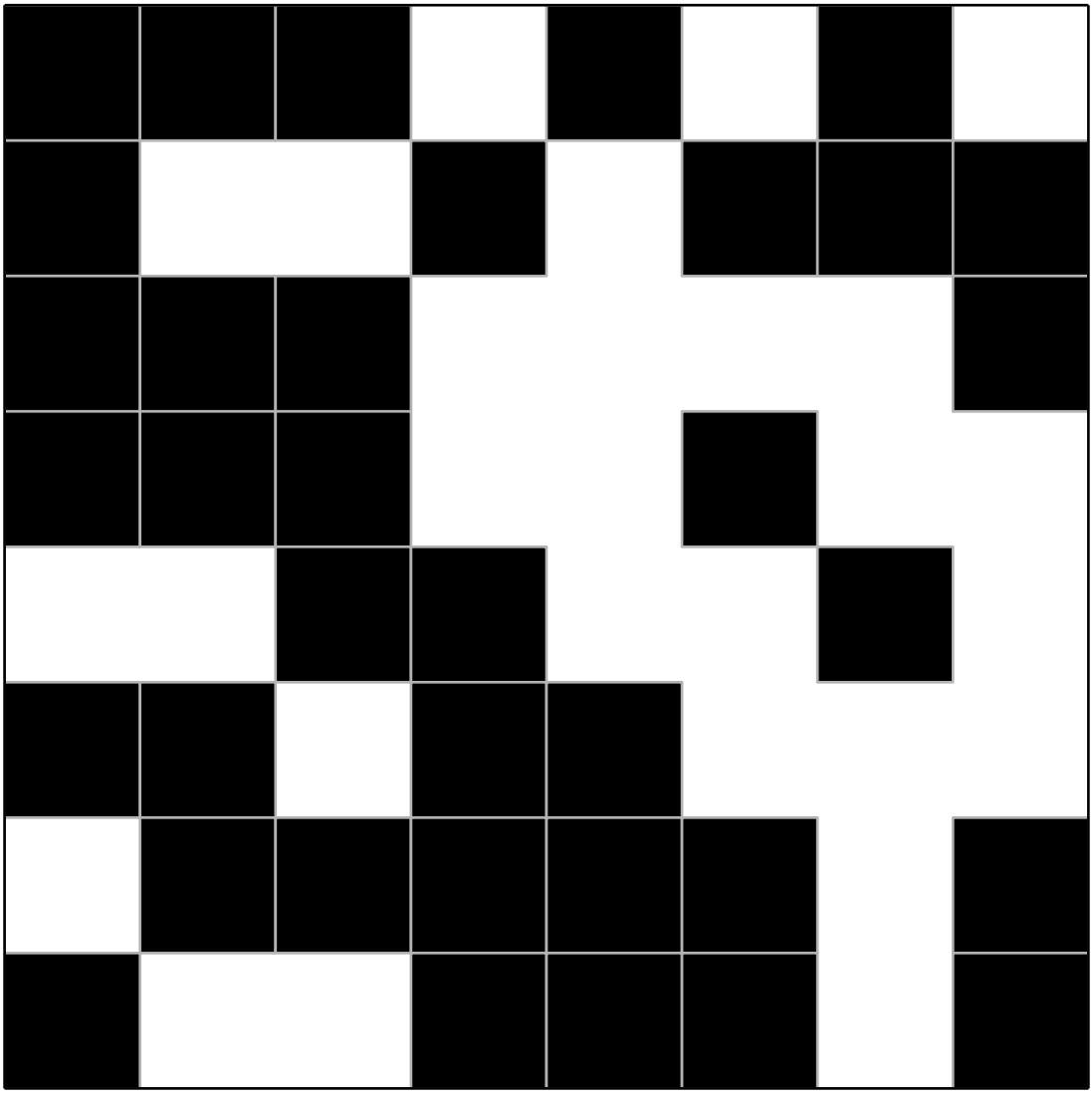
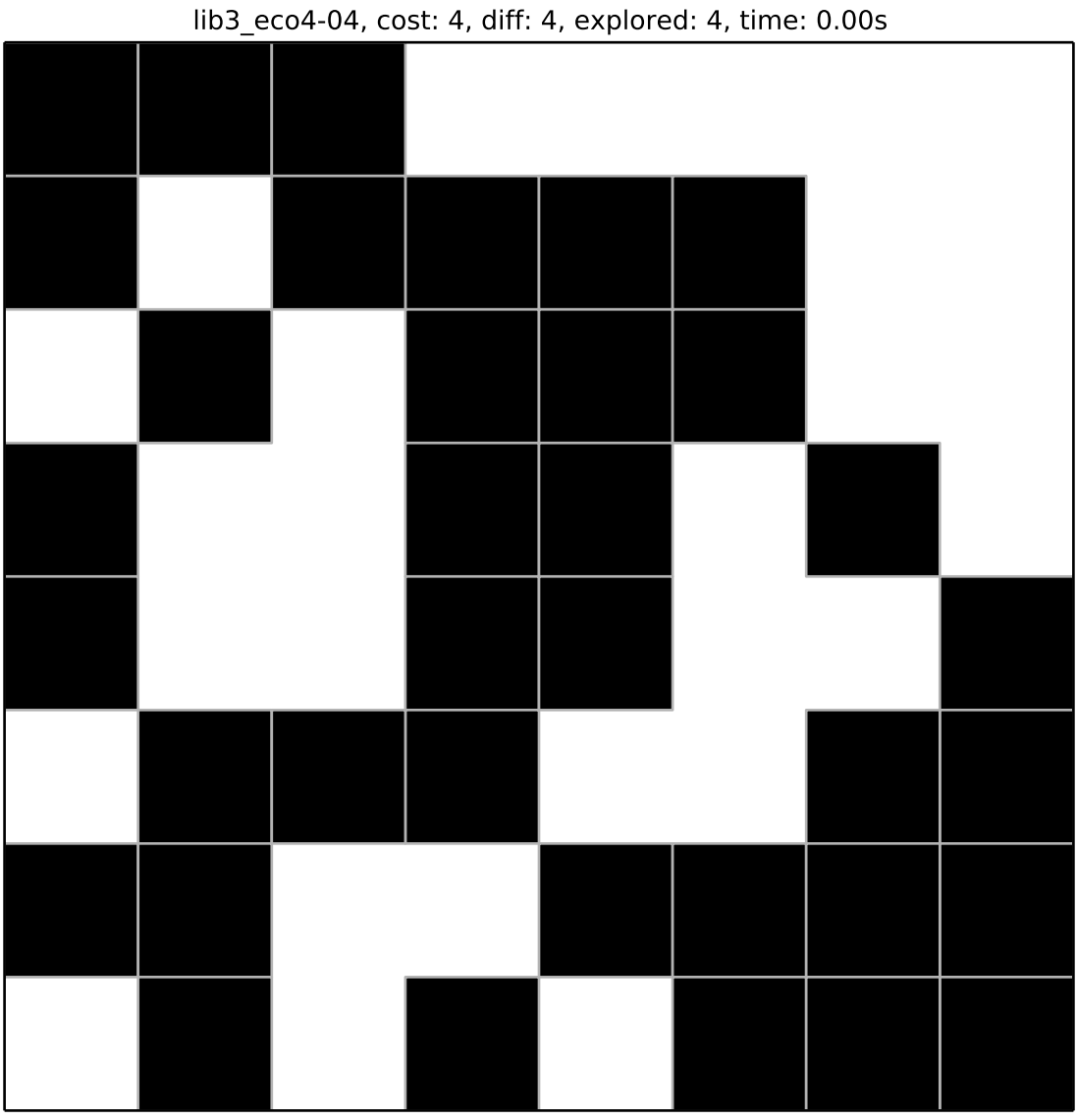


lib3_eco4-04 8x8 (36) con: 4, var: 4

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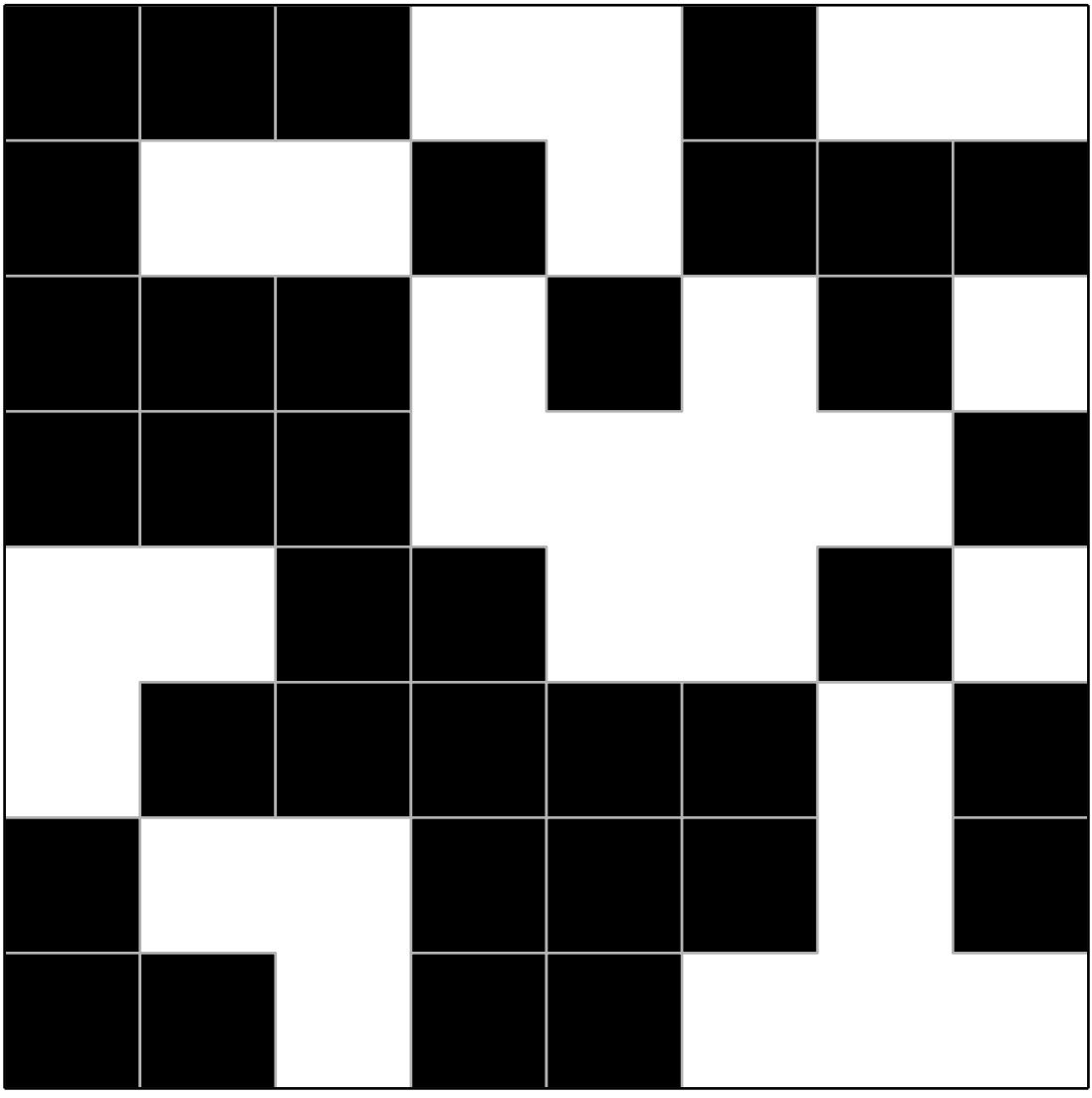

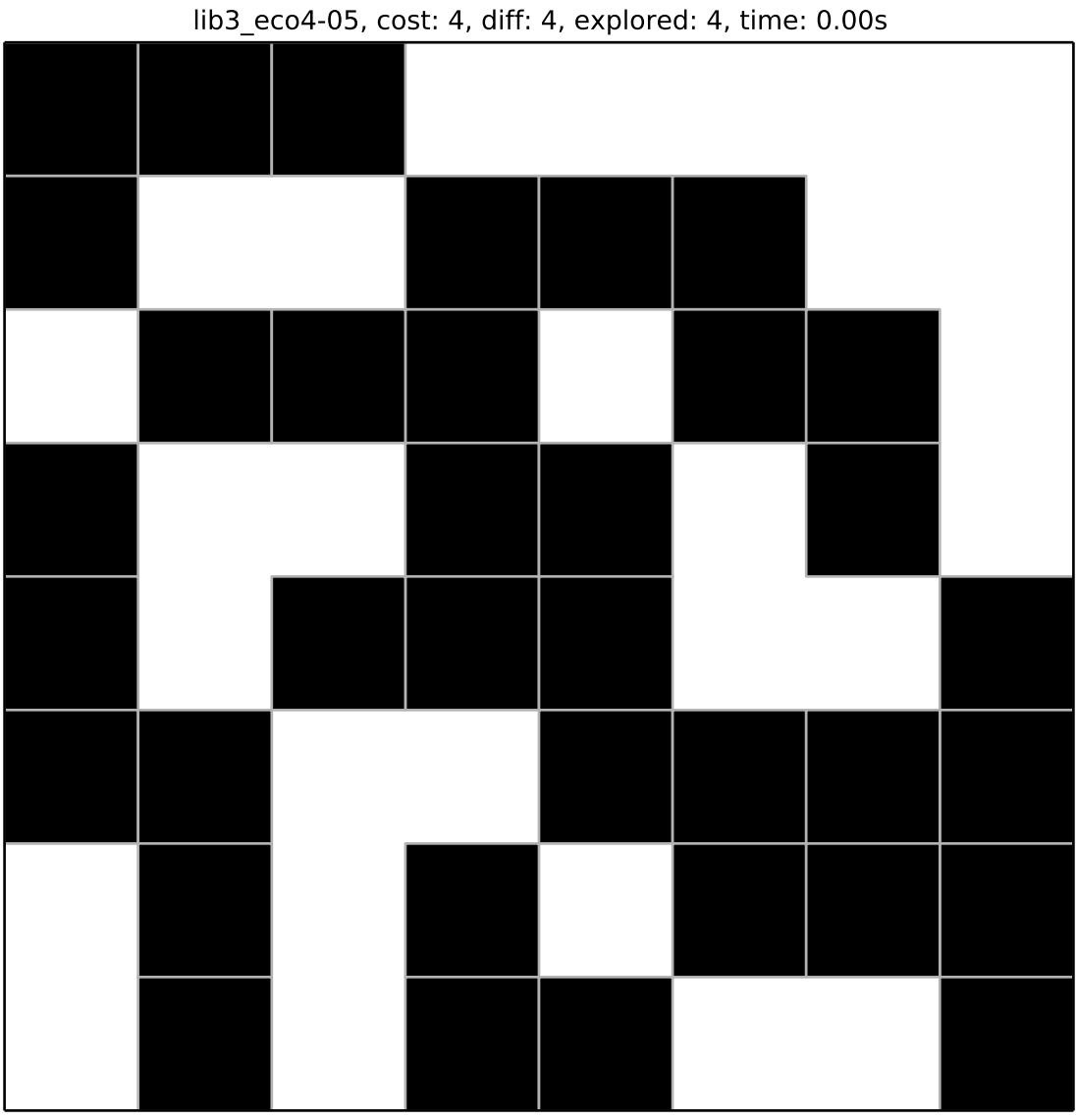
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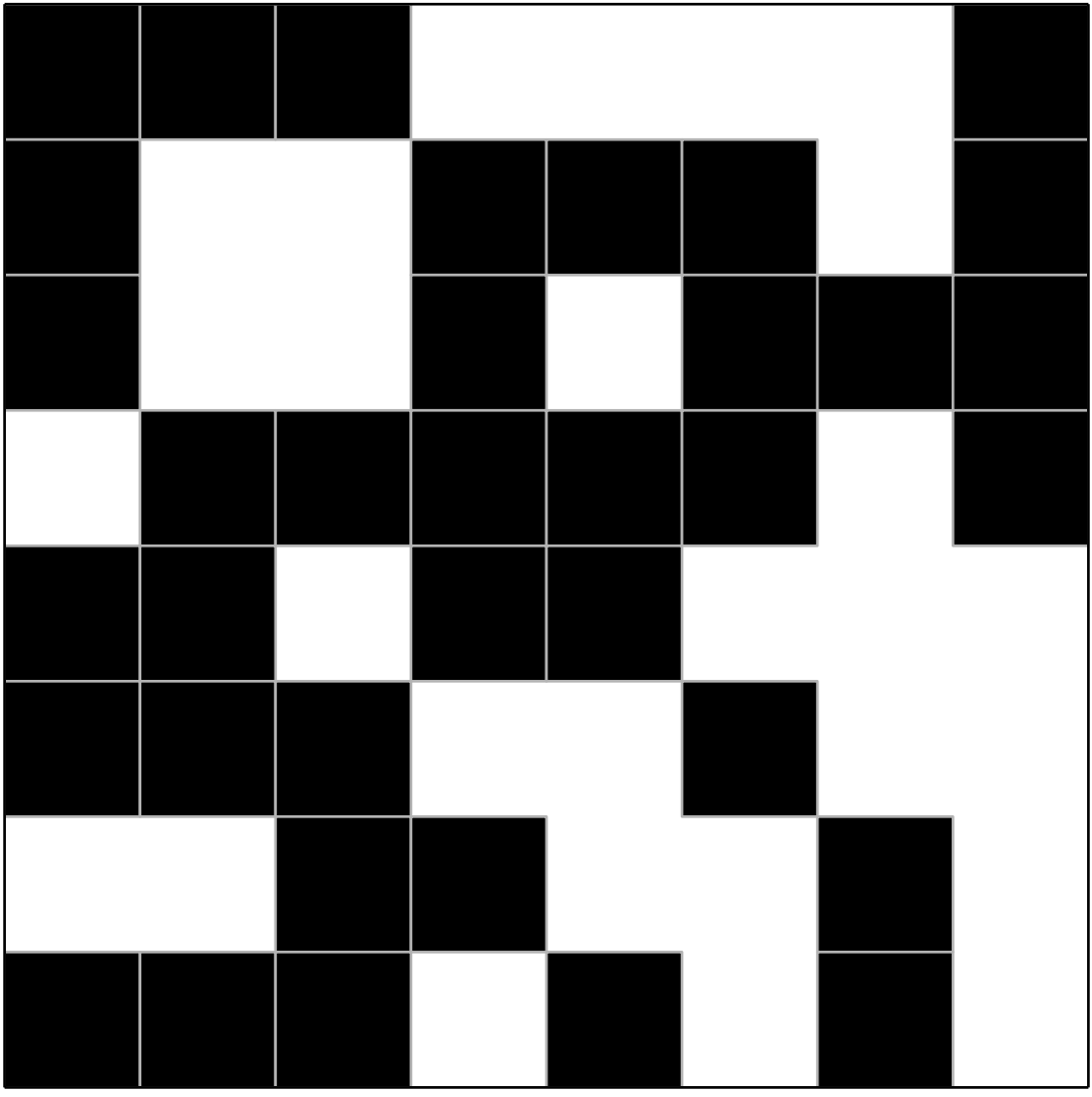

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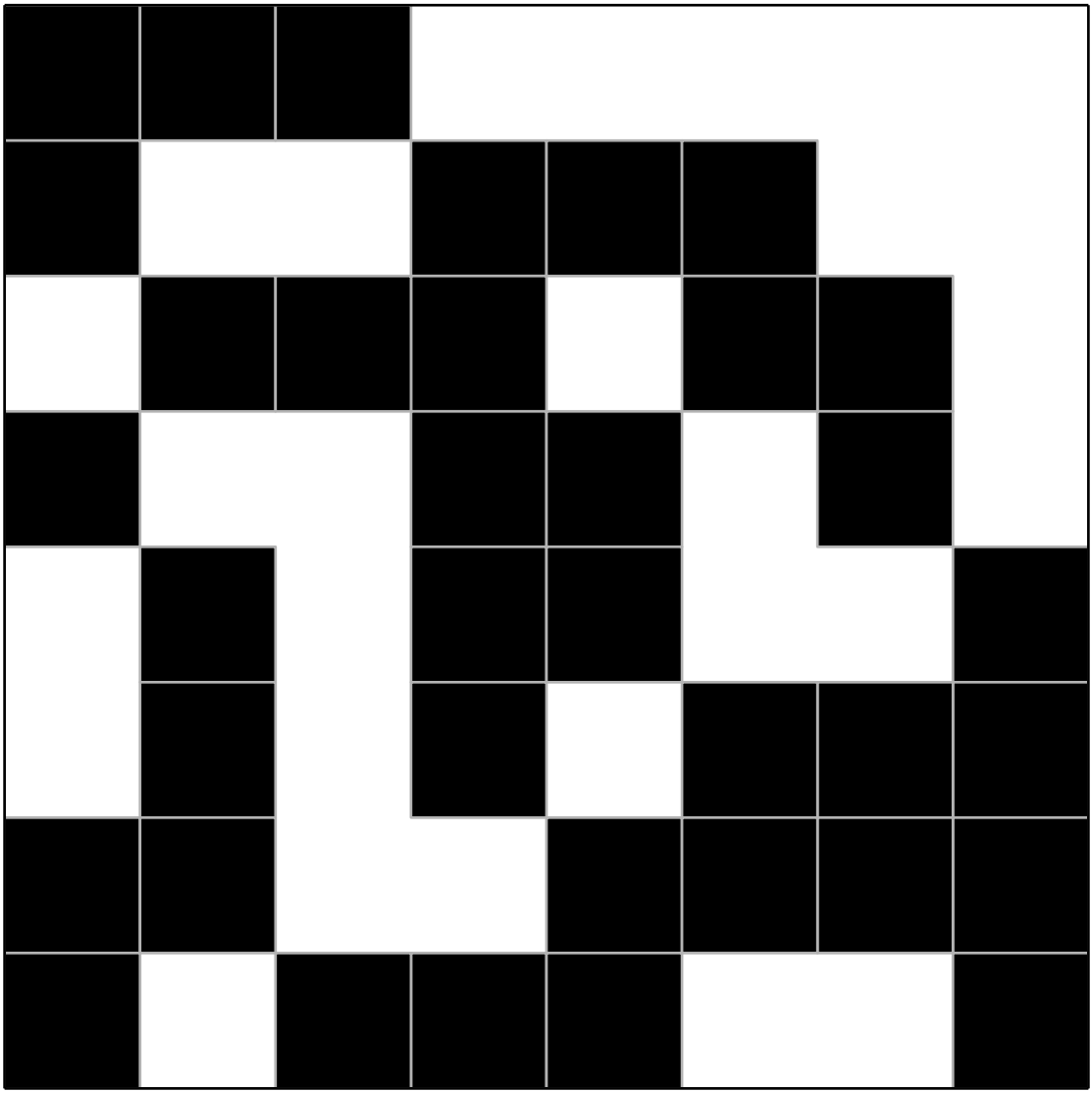
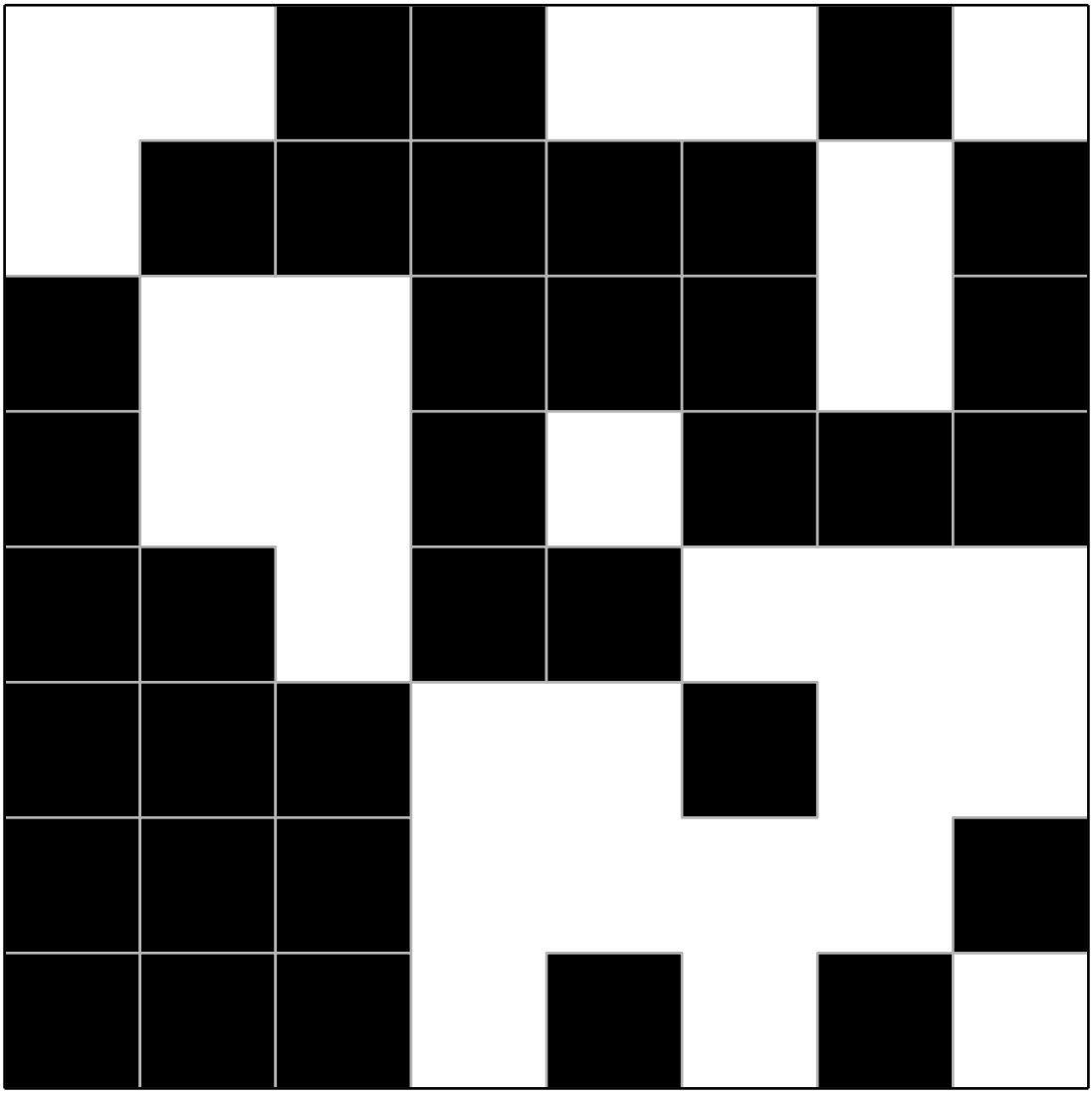
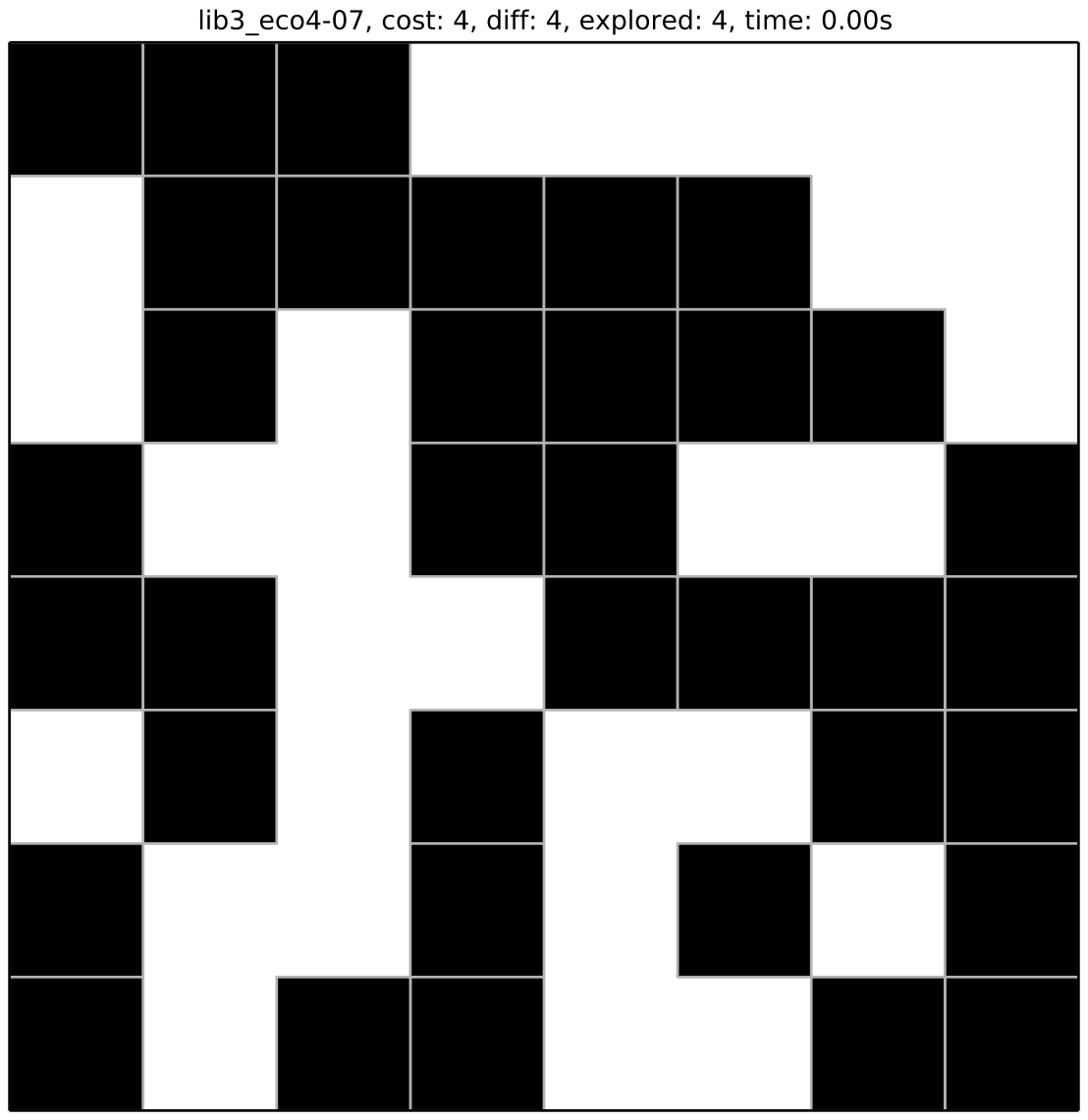


lib3_eco4-07 8x8 (36) con: 4, var: 4

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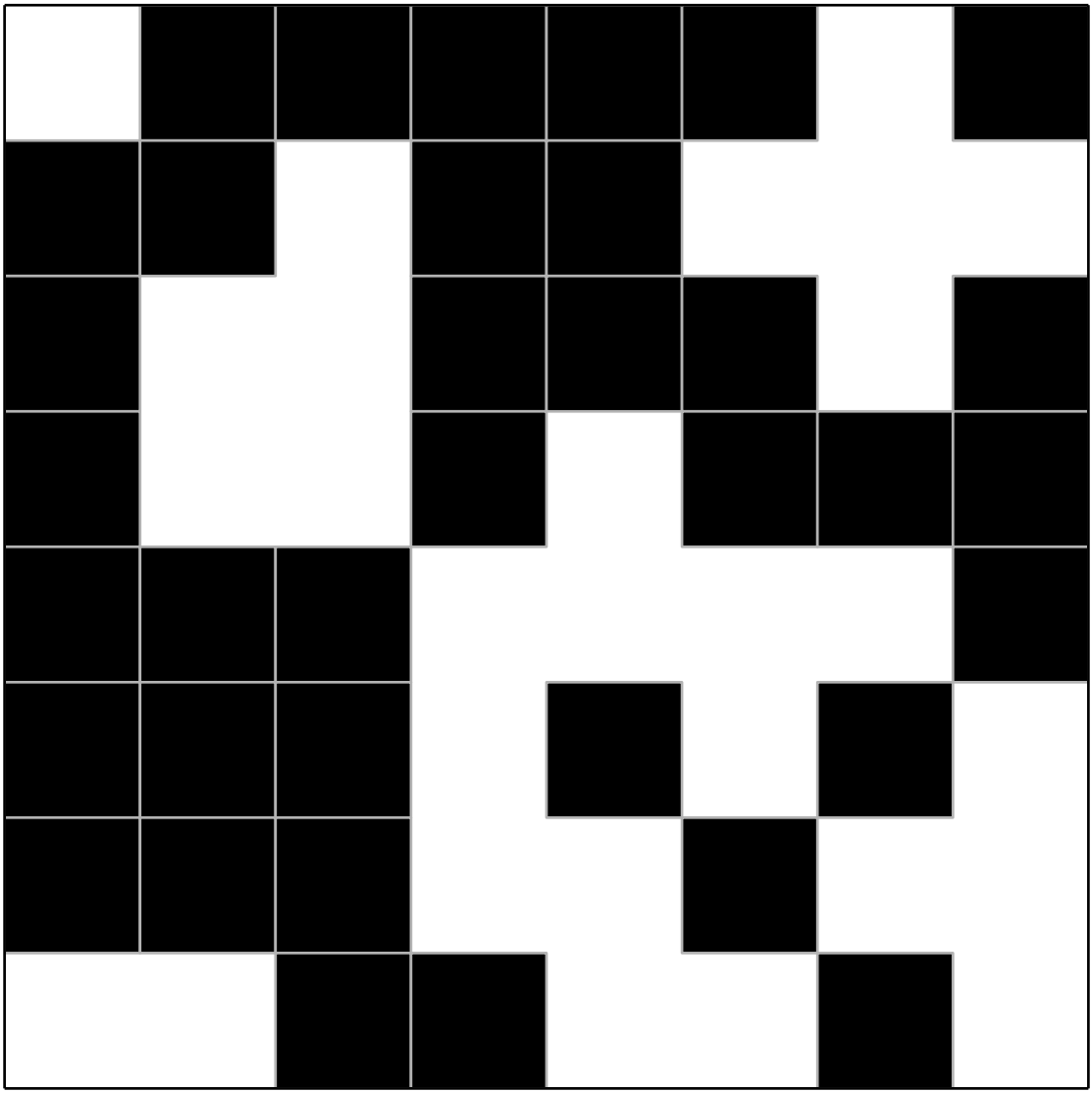

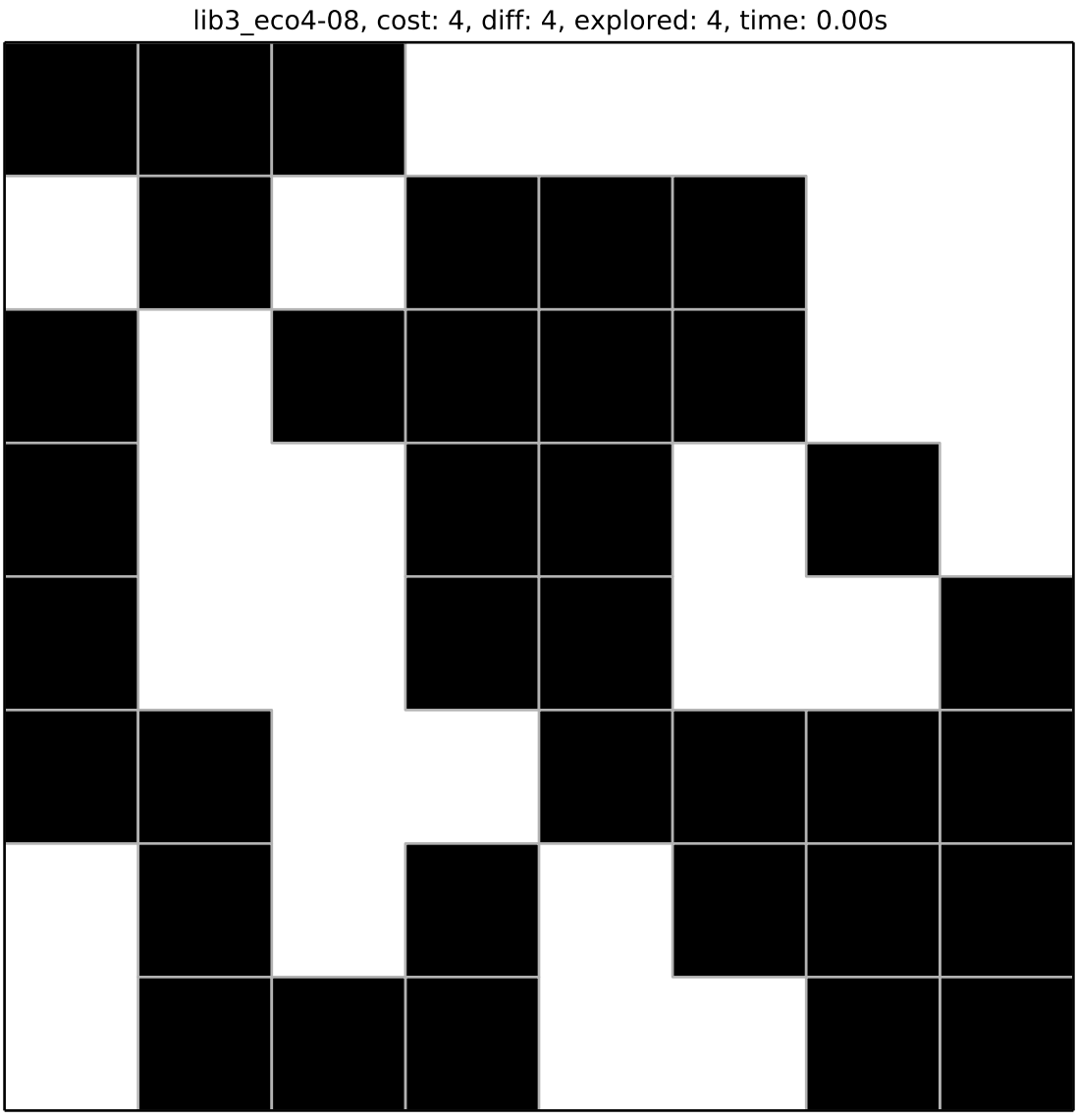
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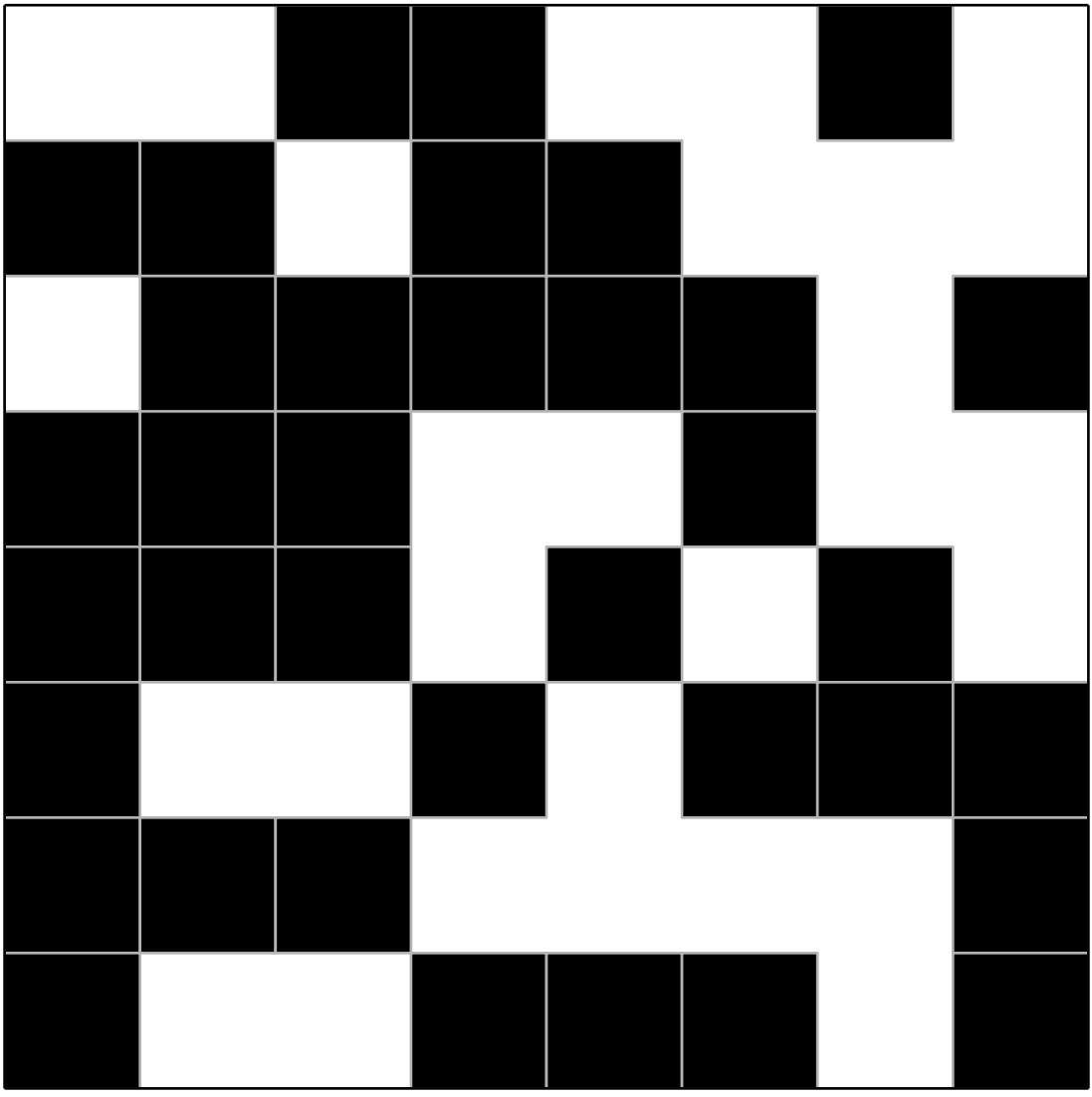

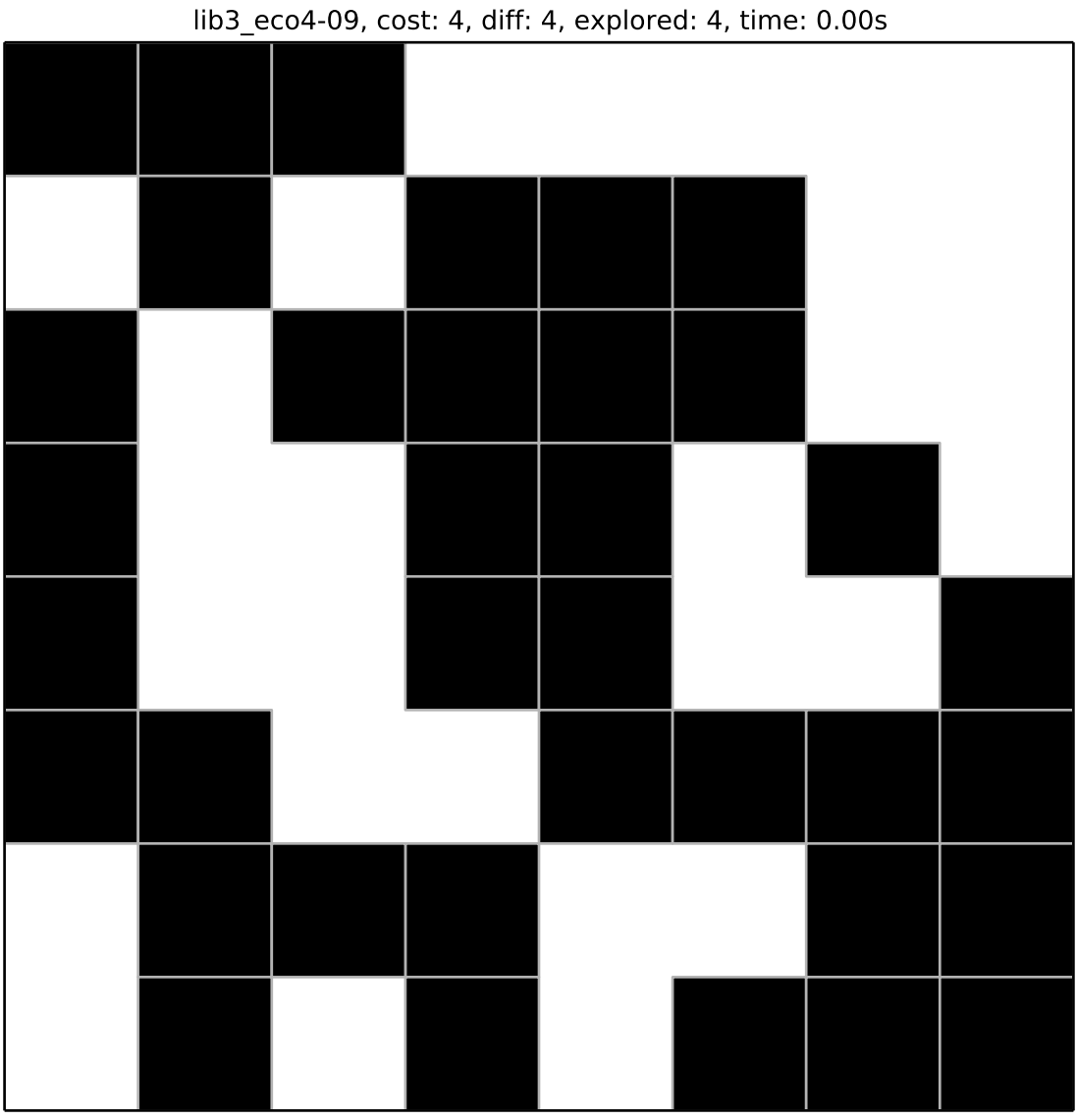
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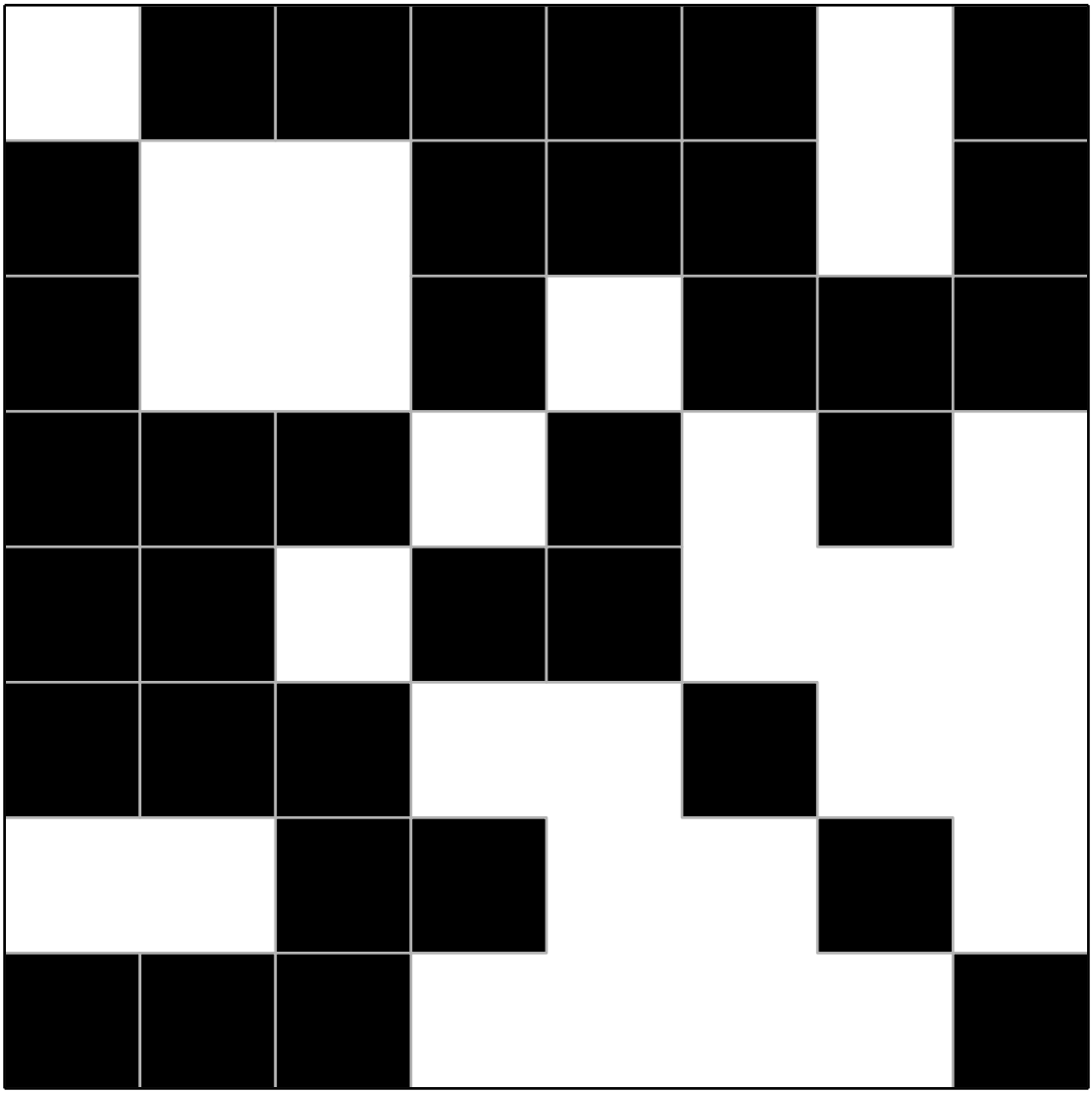

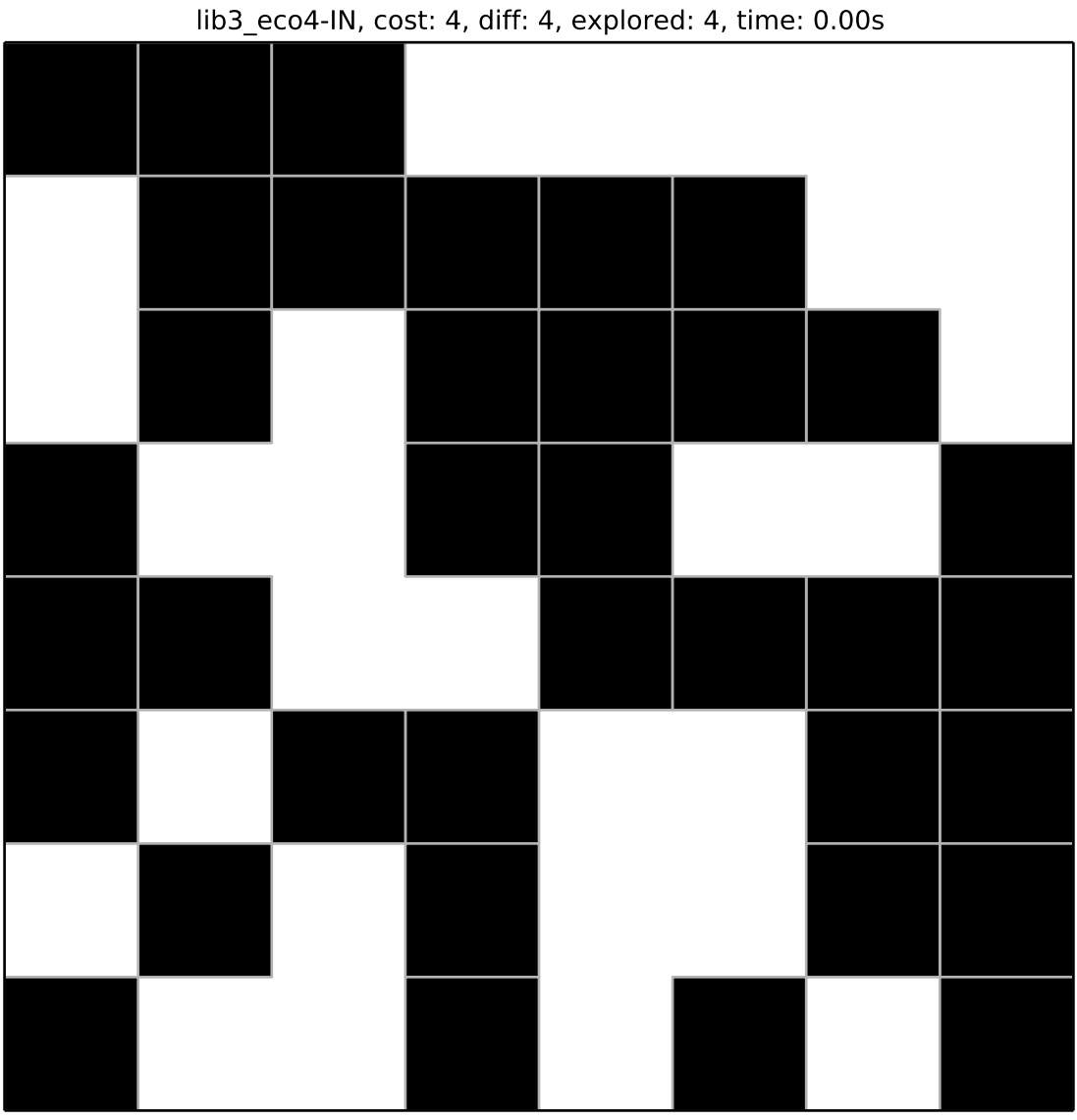
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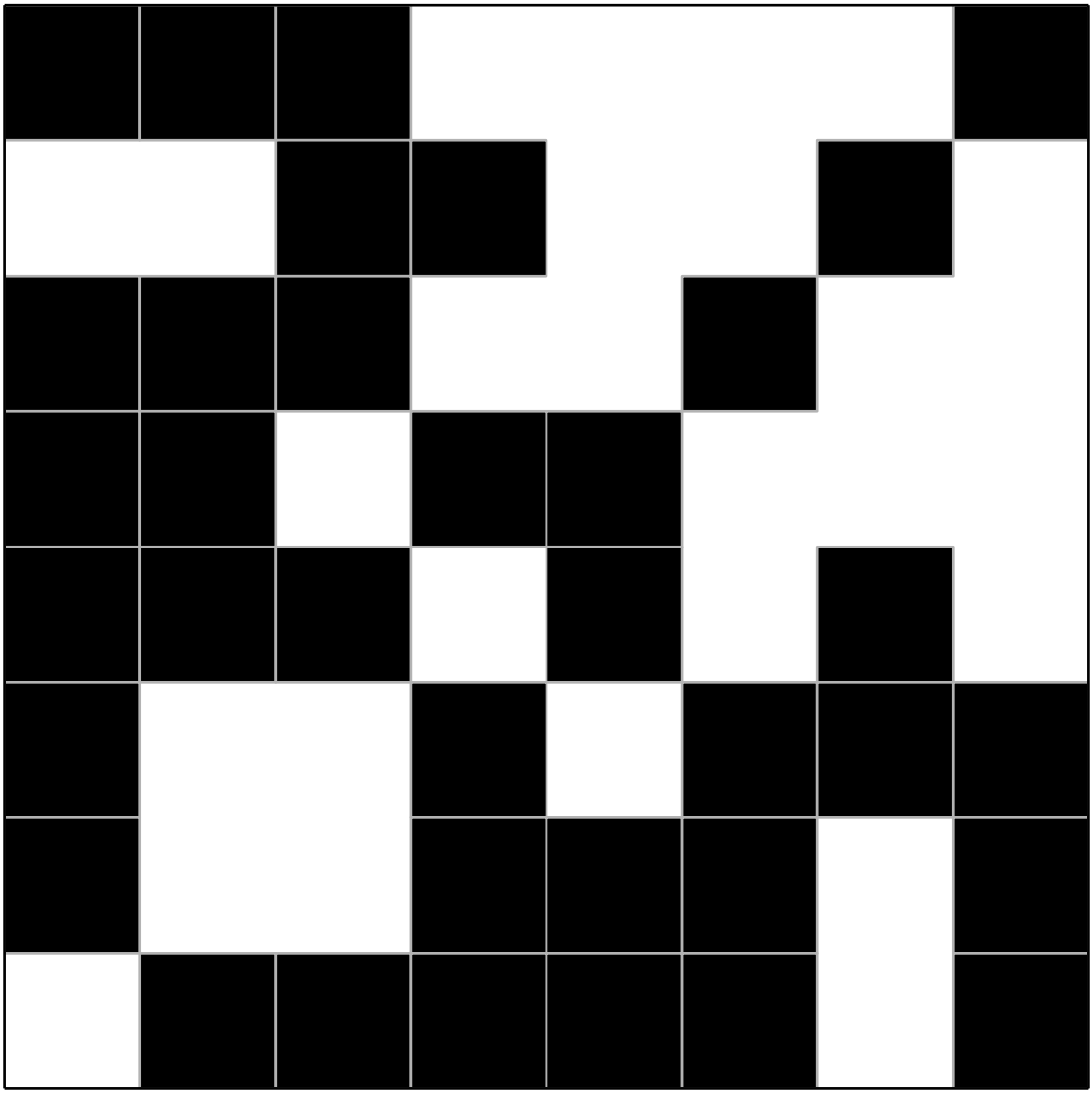
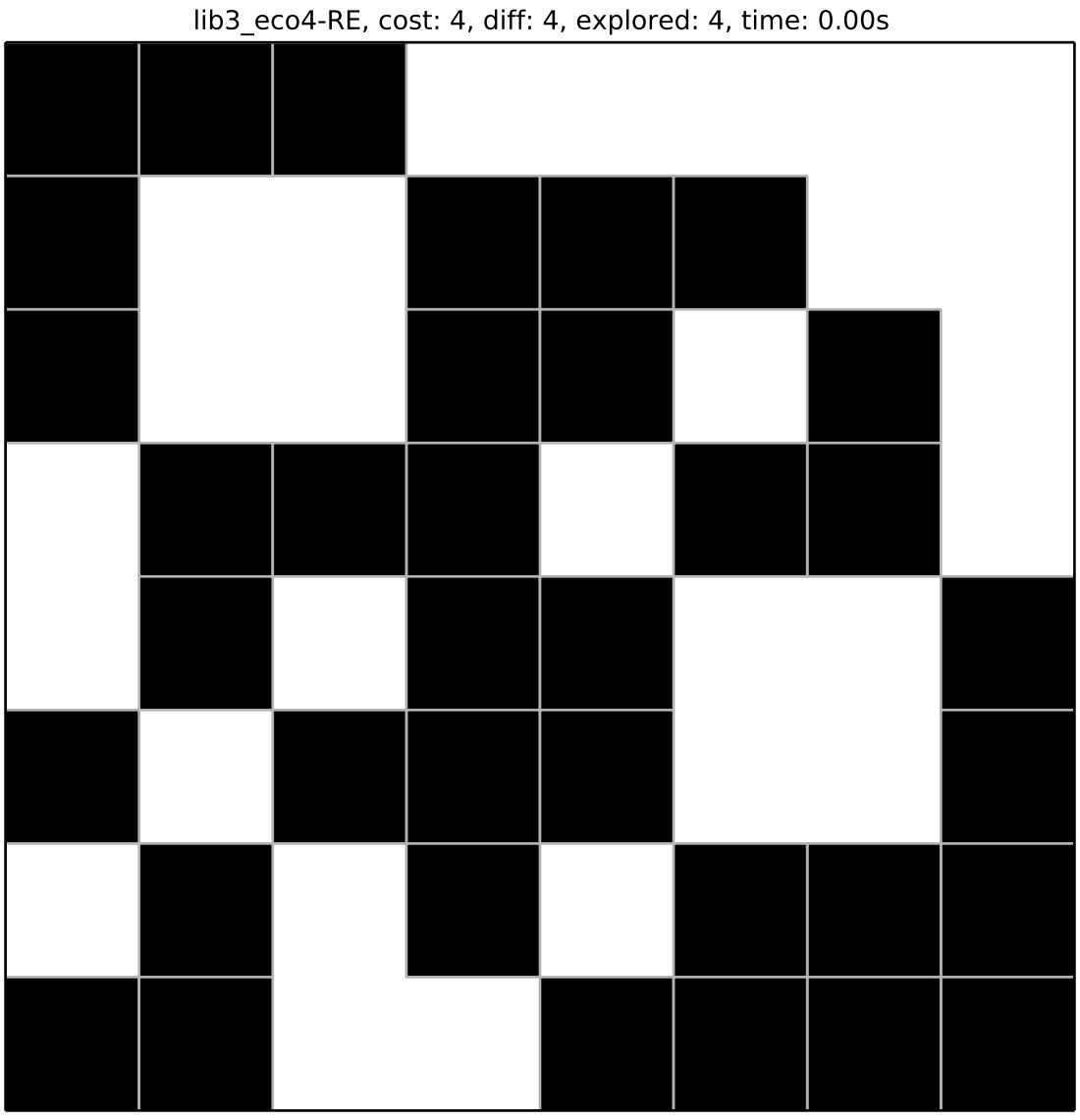
lib3_eco4-RE 8x8 (36) con: 4, var: 4

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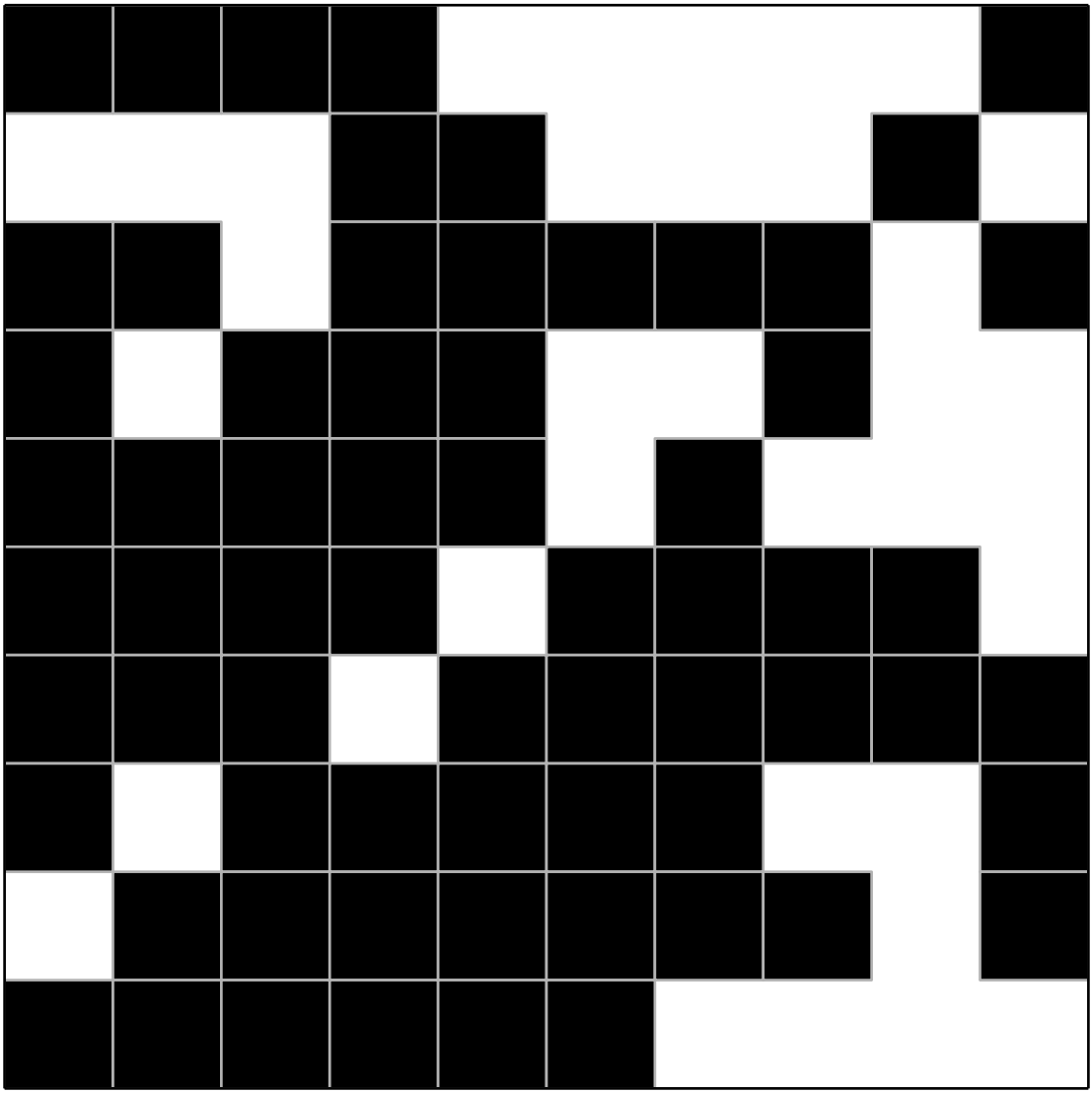
lib3_eco5-00 10x10 (65) con: 5, var: 5



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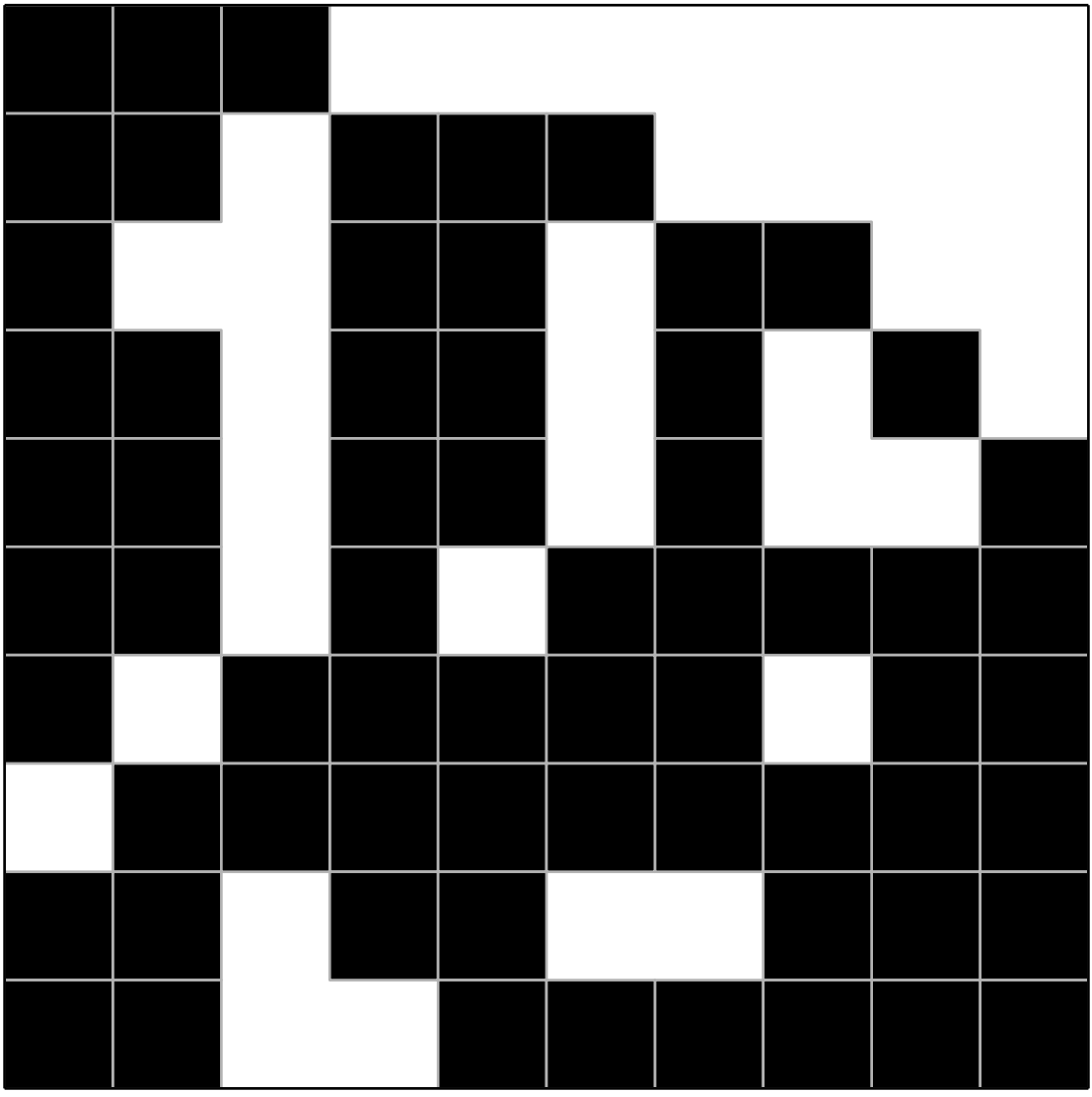
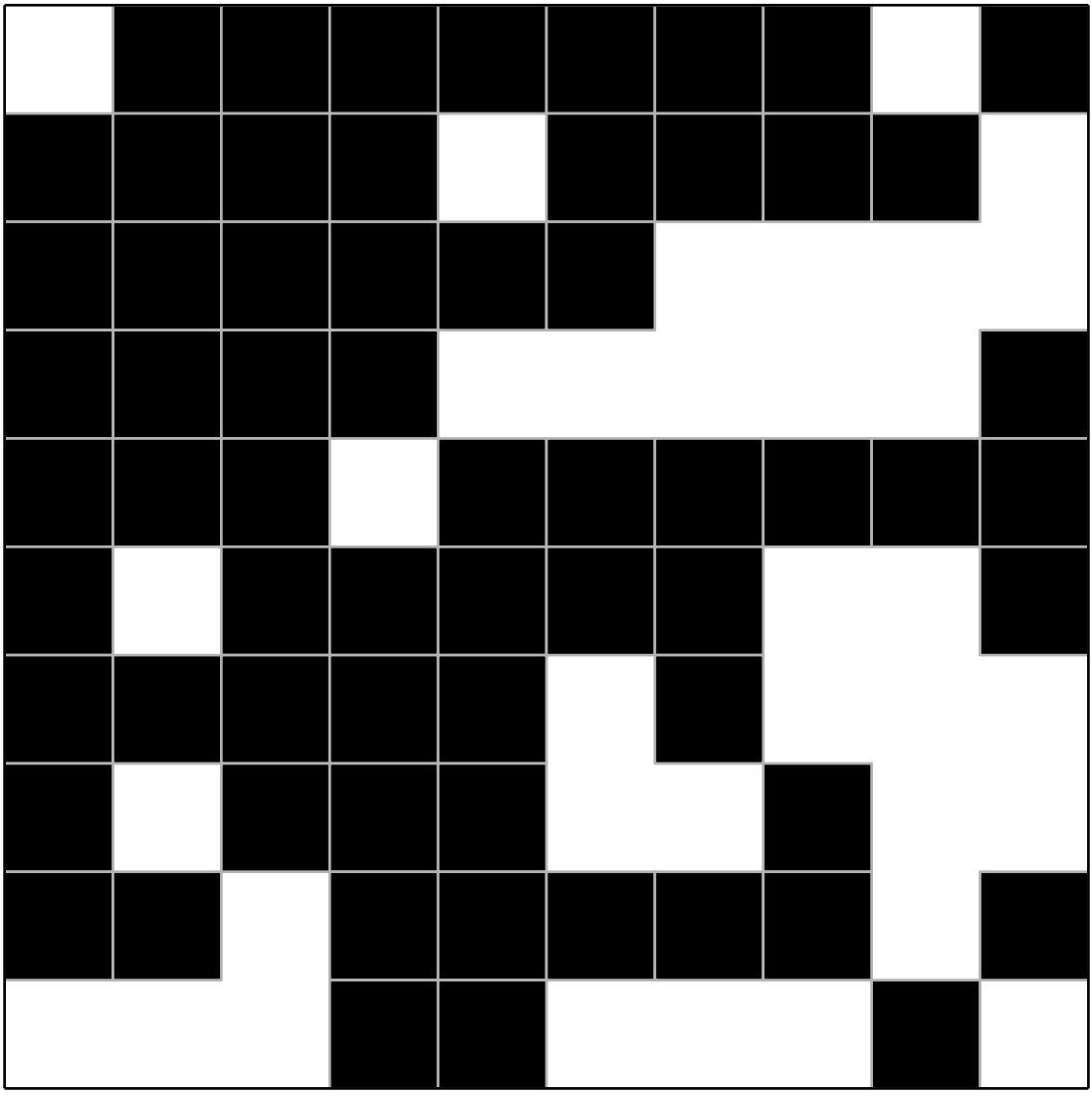


lib3_eco5-01 10x10 (65) con: 5, var: 5



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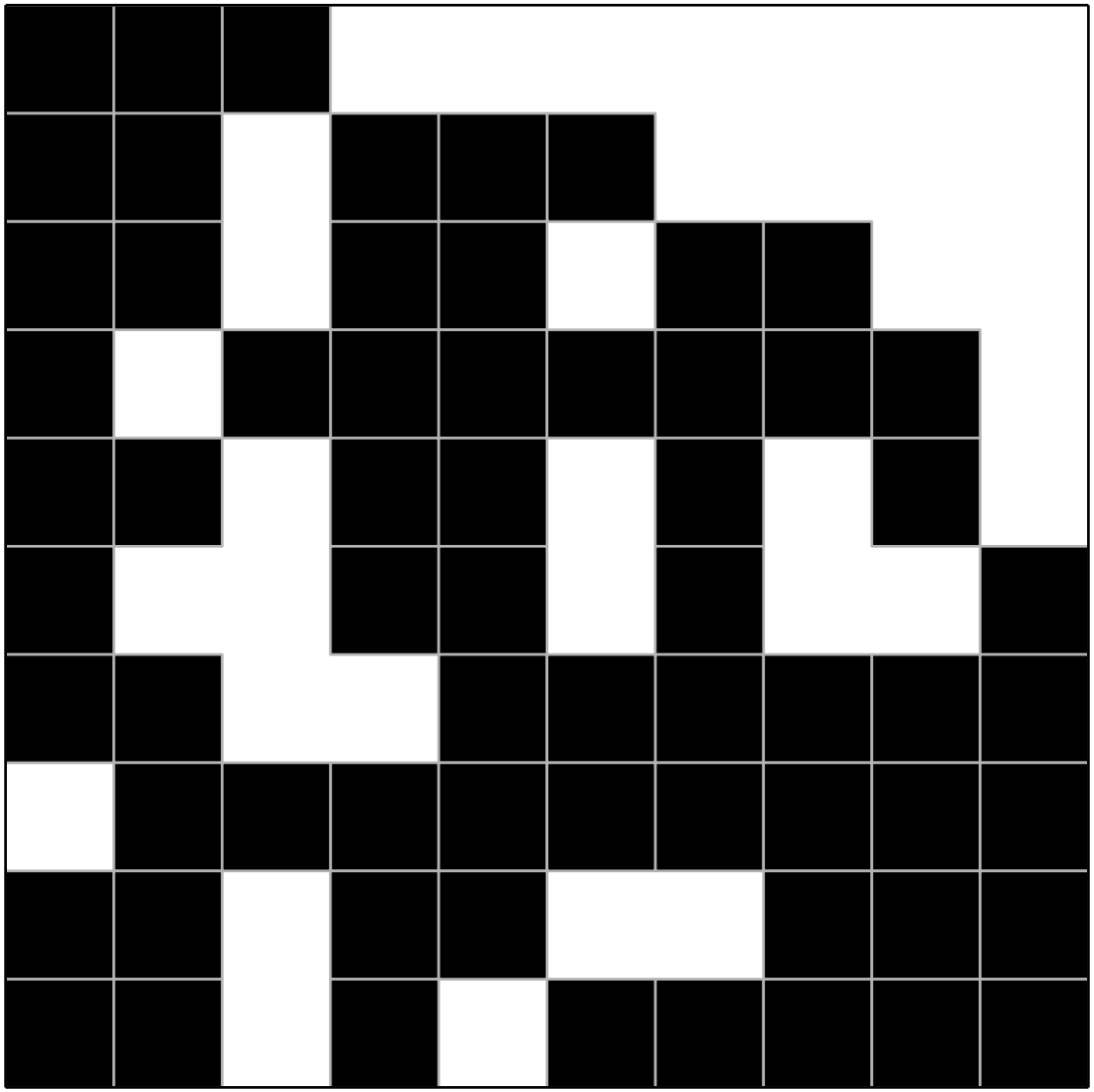
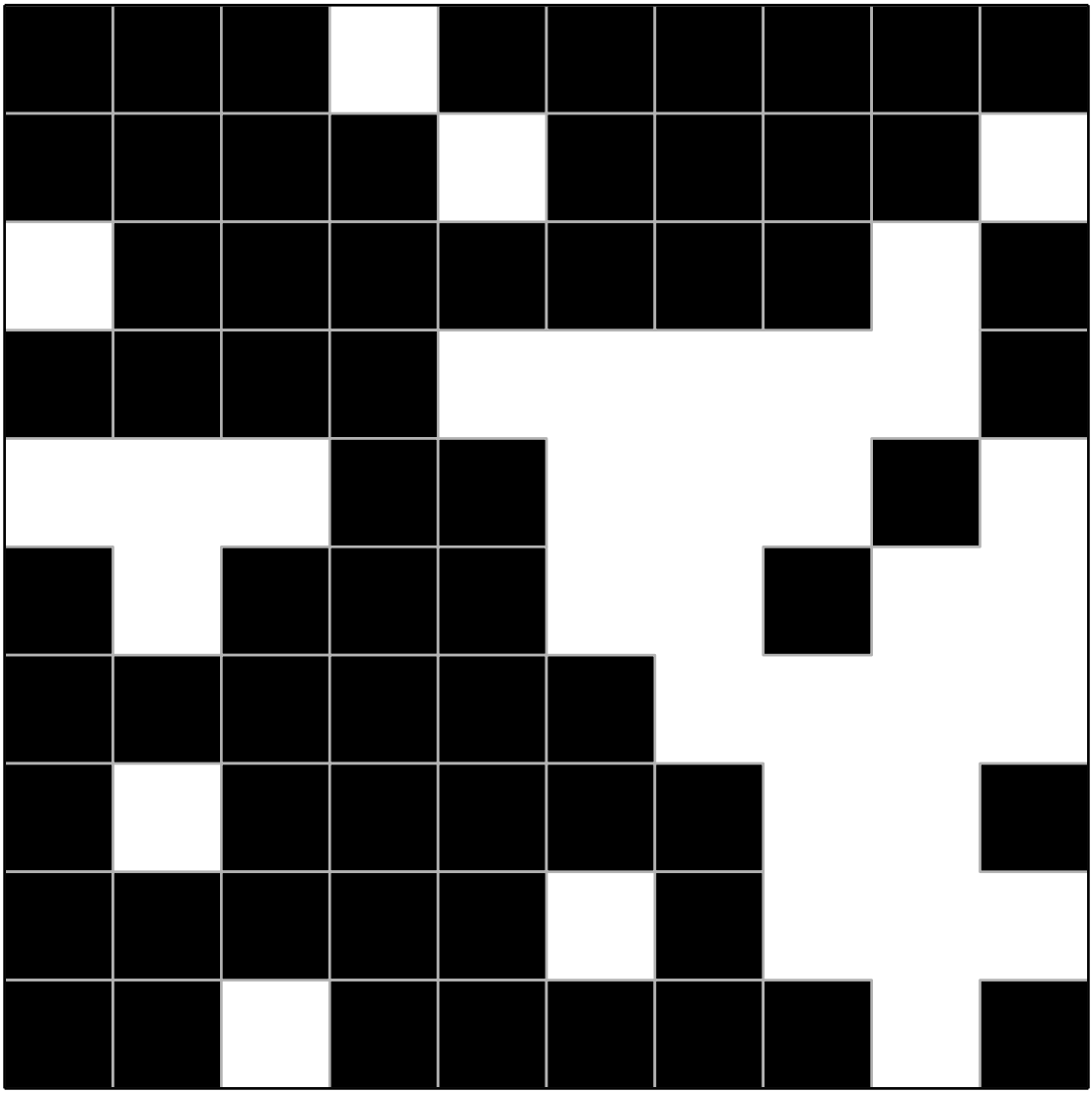


lib3_eco5-02 10x10 (65) con: 5, var: 5



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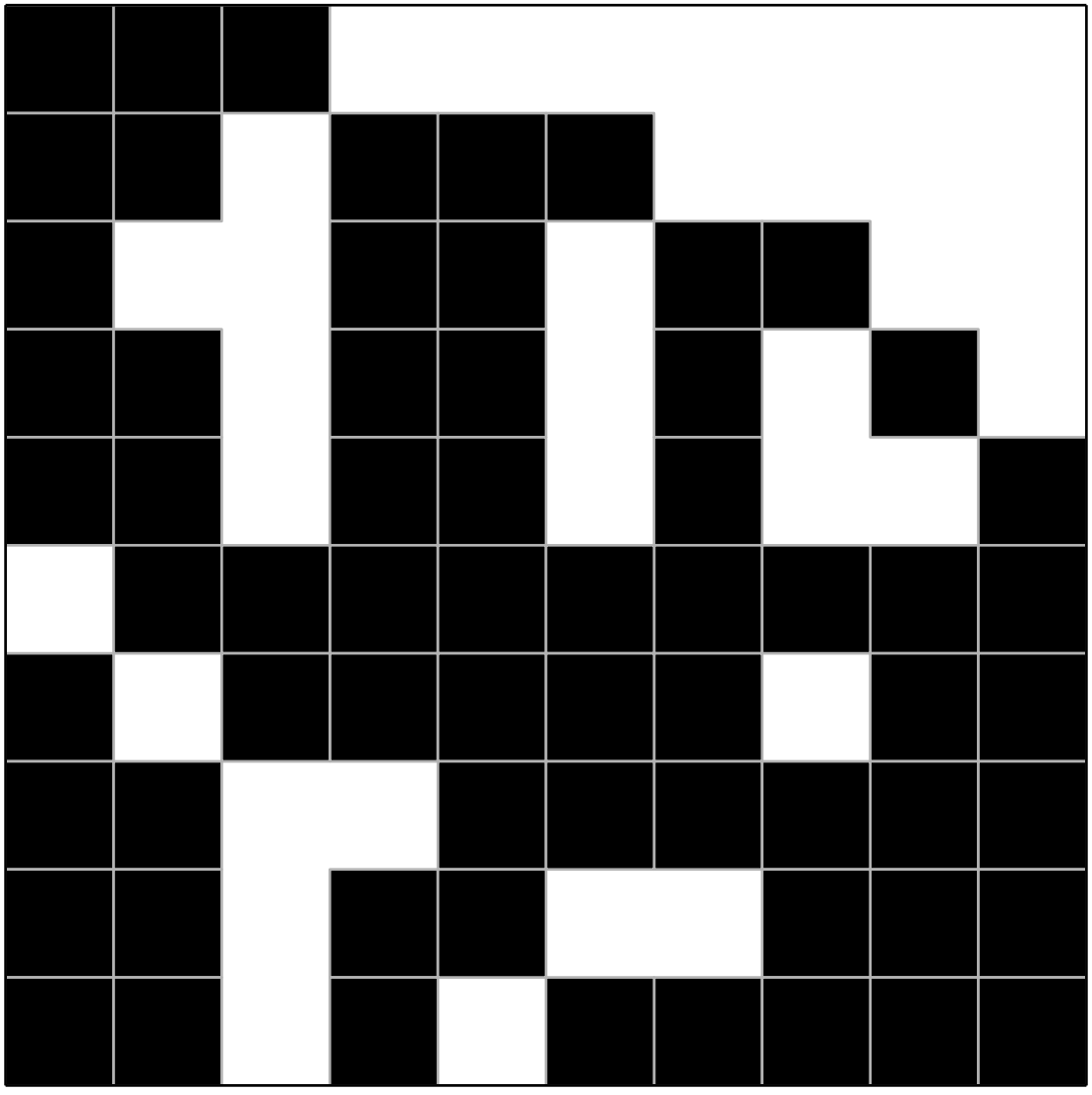
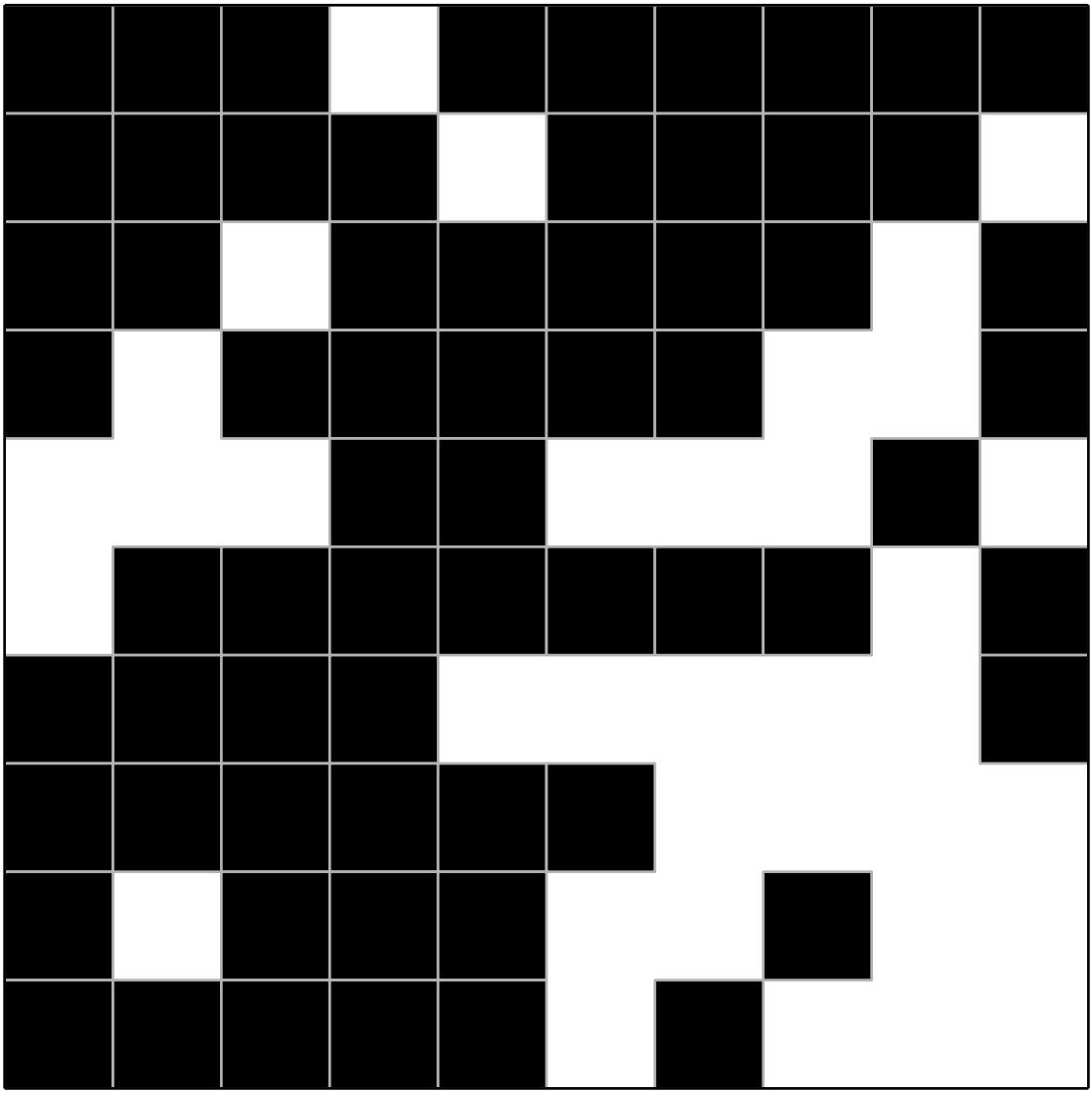
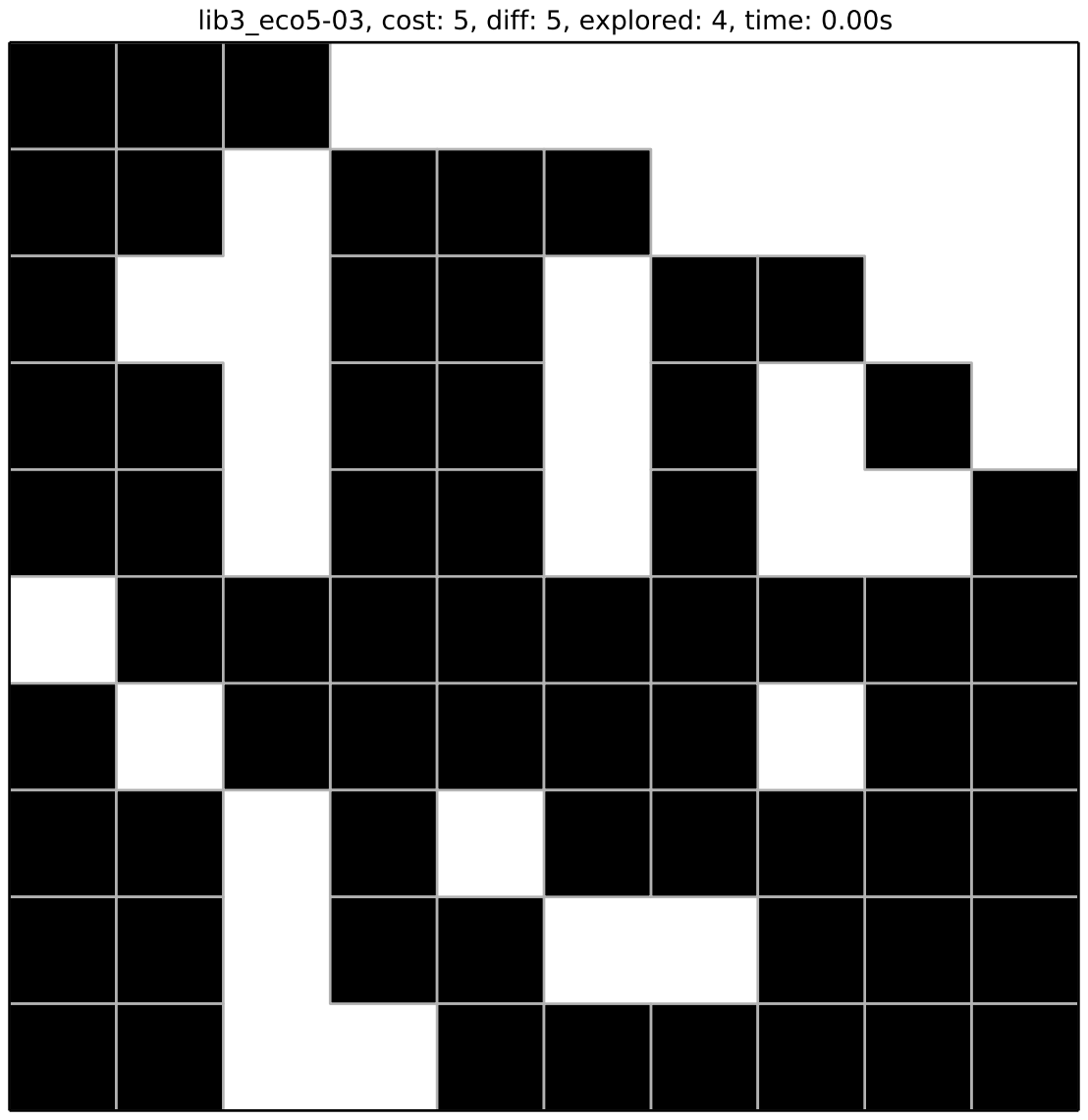


lib3_eco5-03 10x10 (65) con: 5, var: 5

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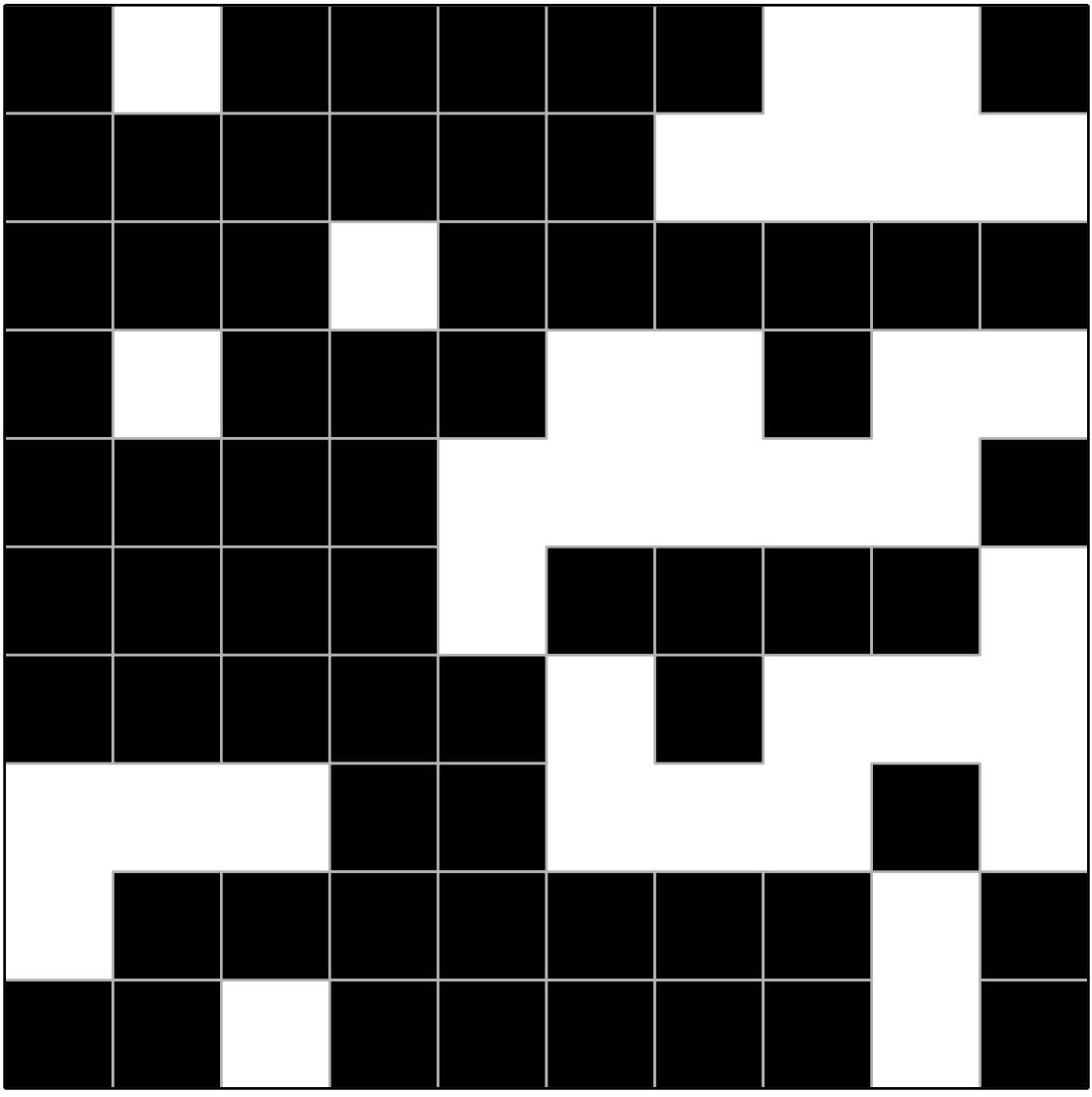
lib3_eco5-04 10x10 (65) con: 5, var: 5



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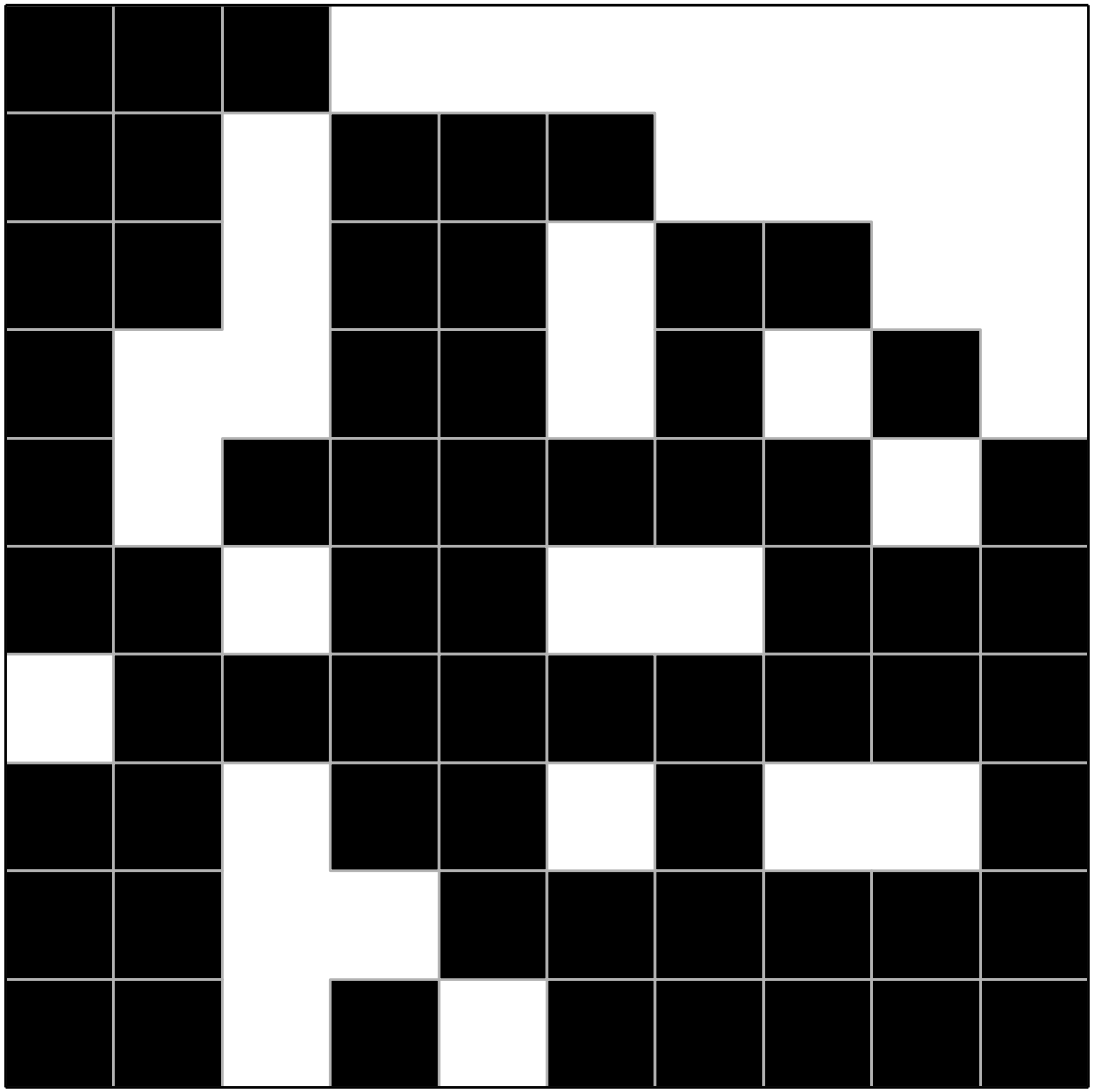
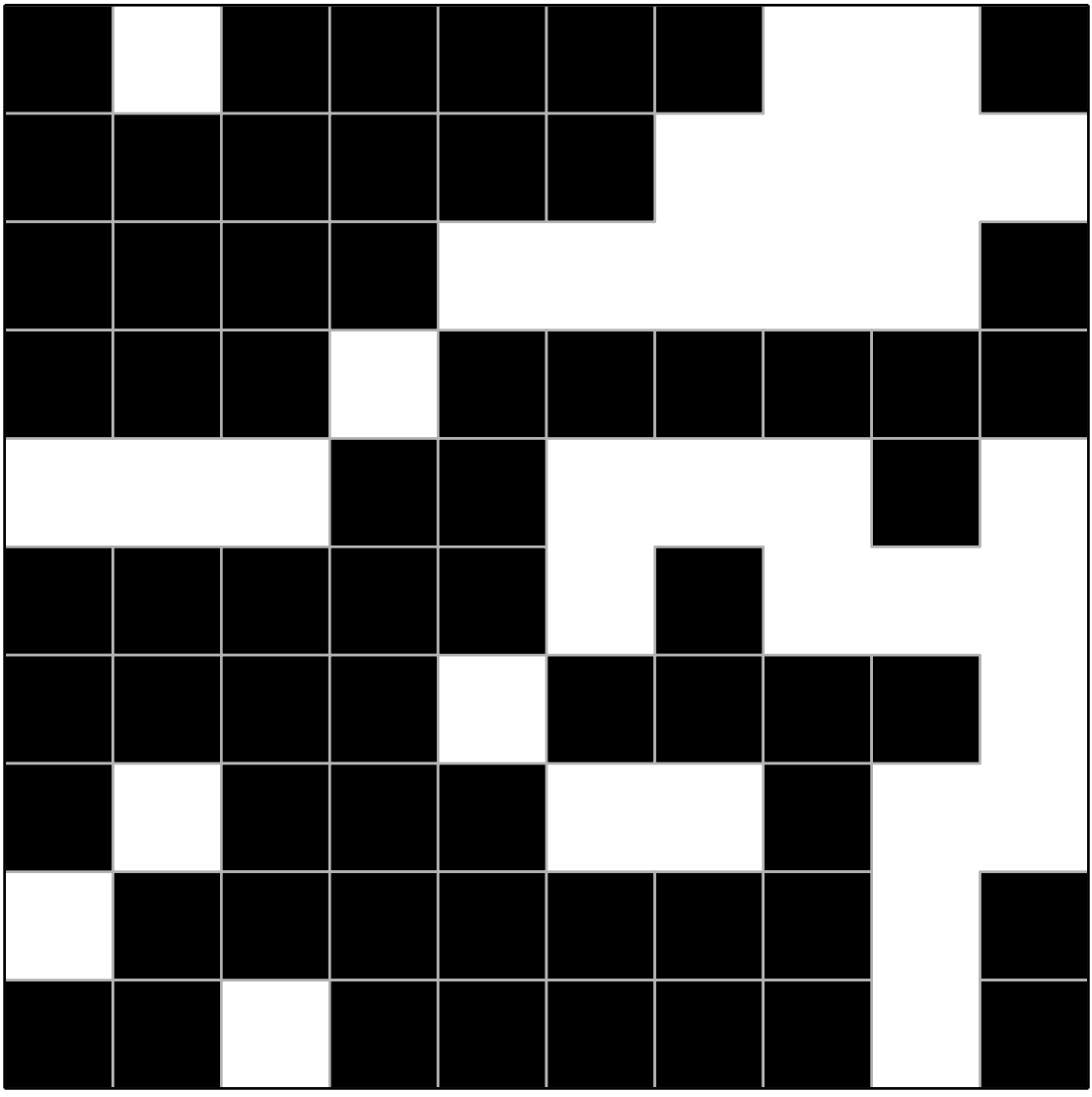


lib3_eco5-05 10x10 (65) con: 5, var: 5



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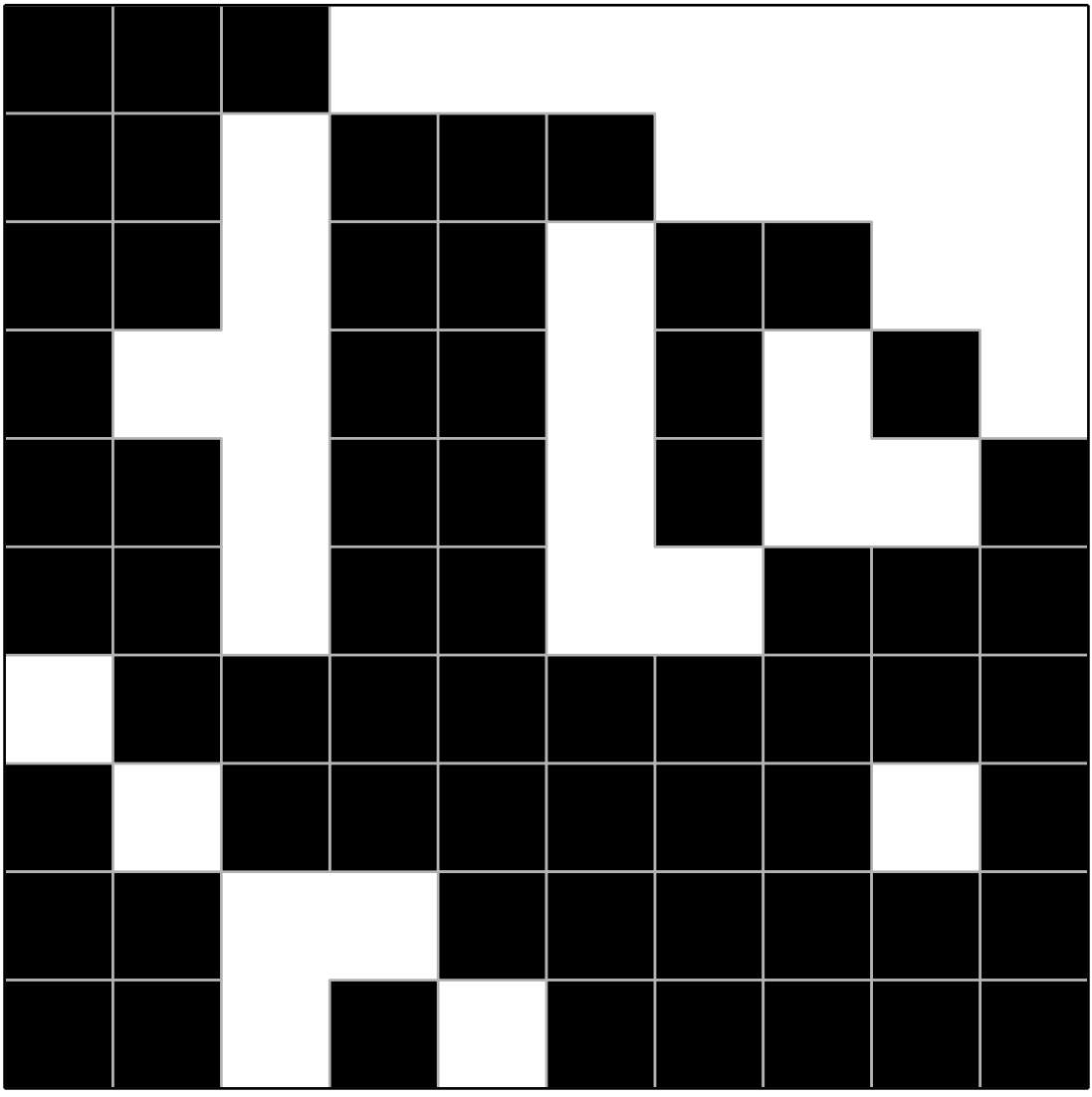
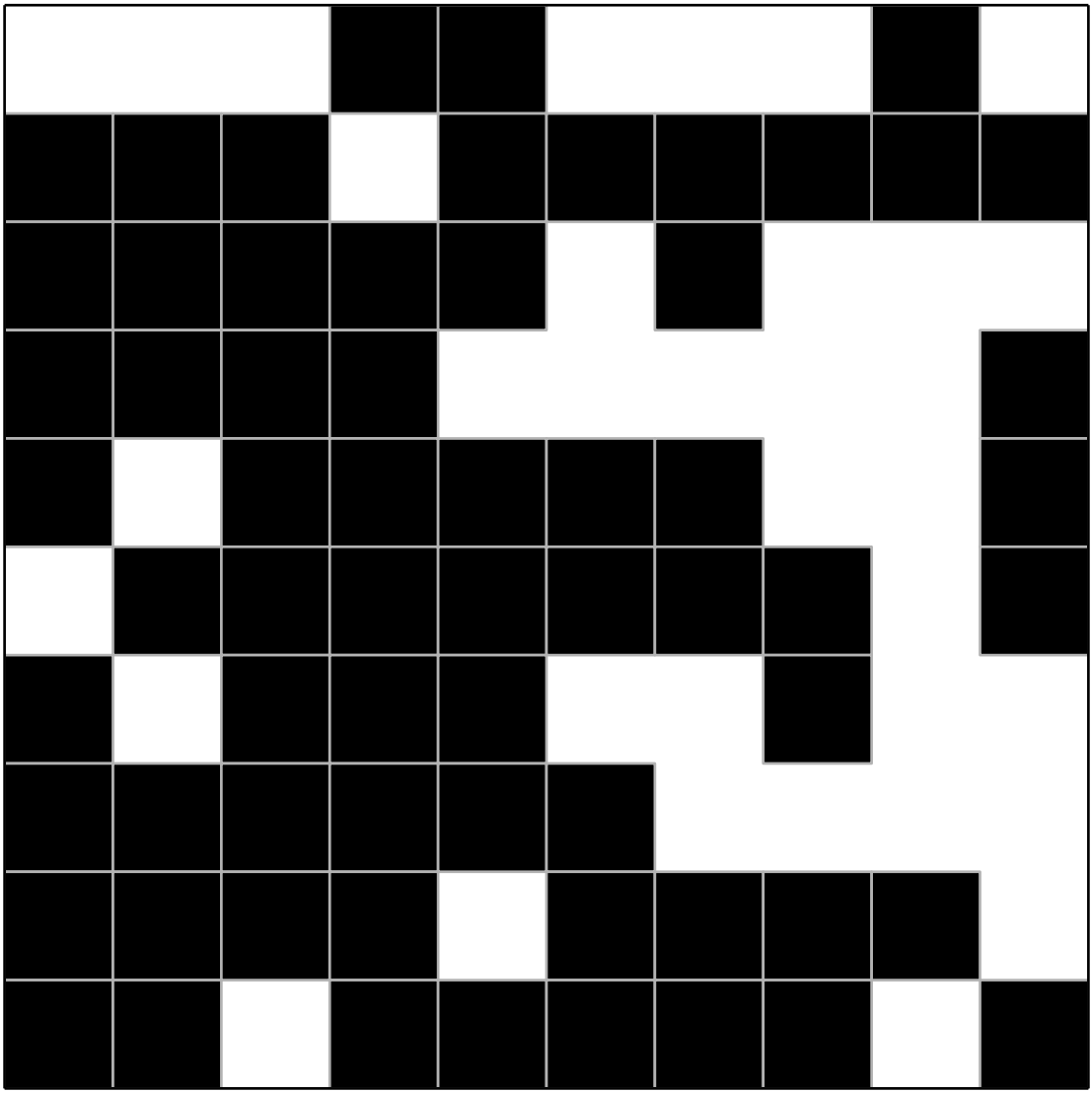


lib3_eco5-06 10x10 (65) con: 5, var: 5



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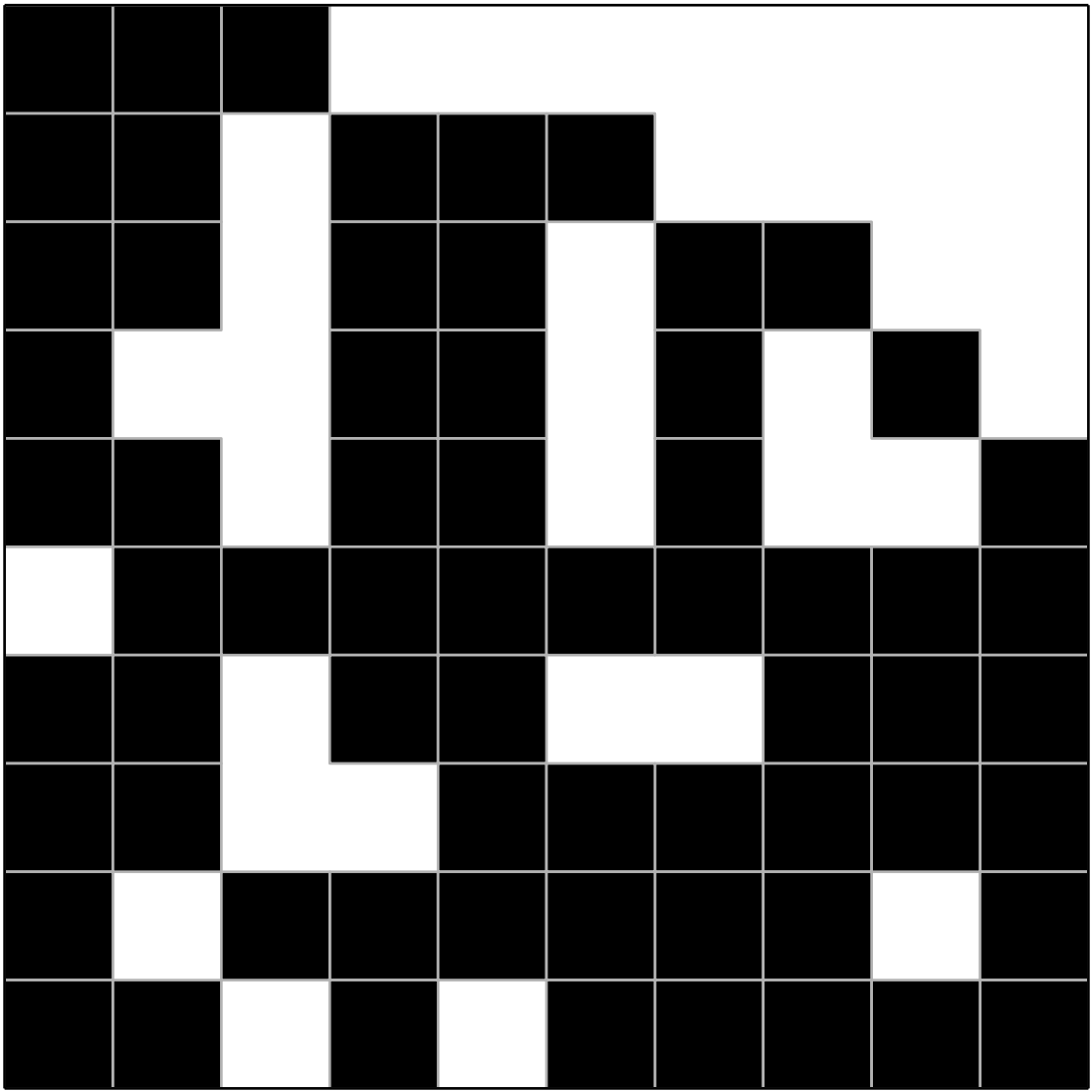
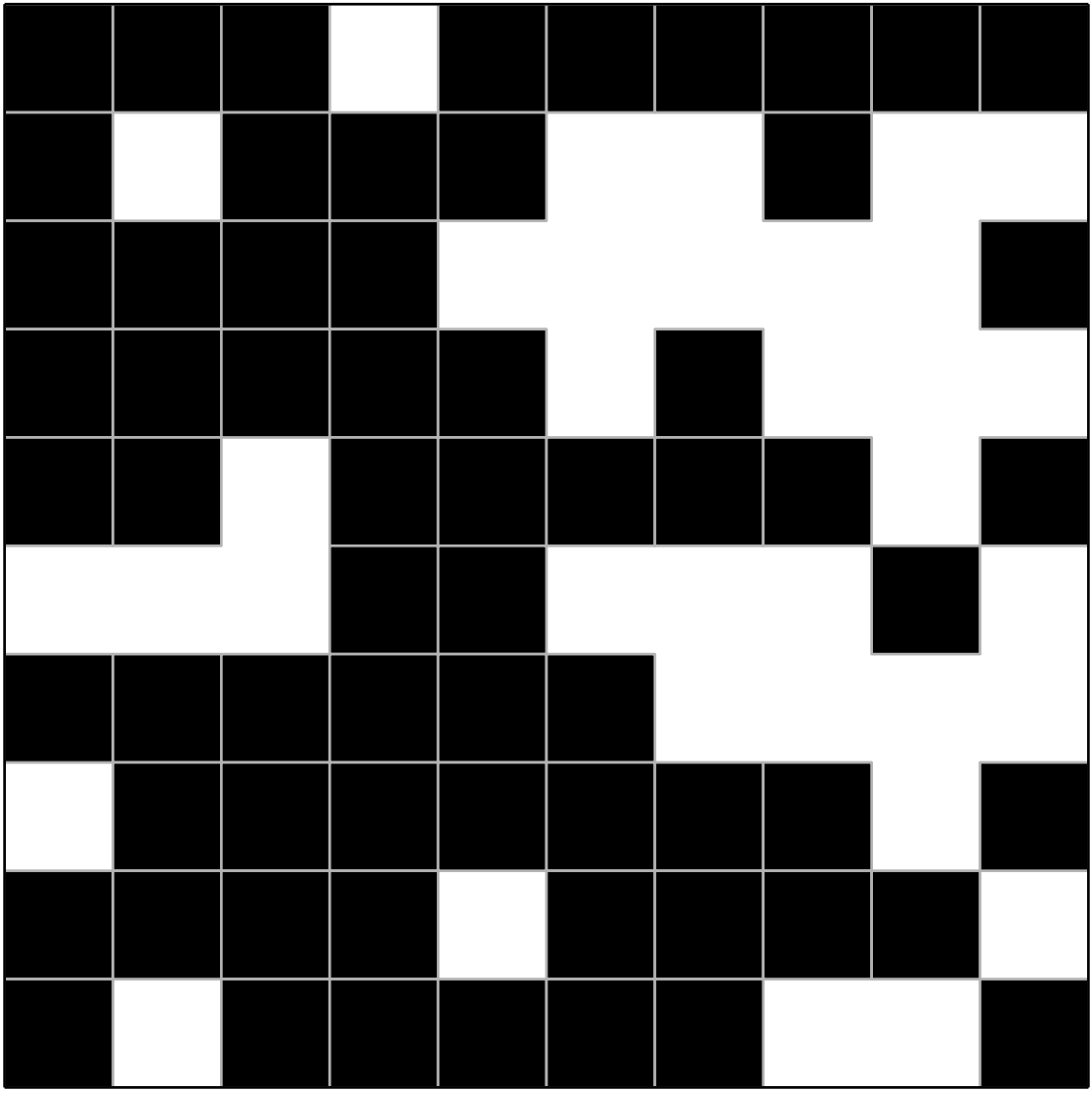


lib3_eco5-07 10x10 (65) con: 5, var: 5



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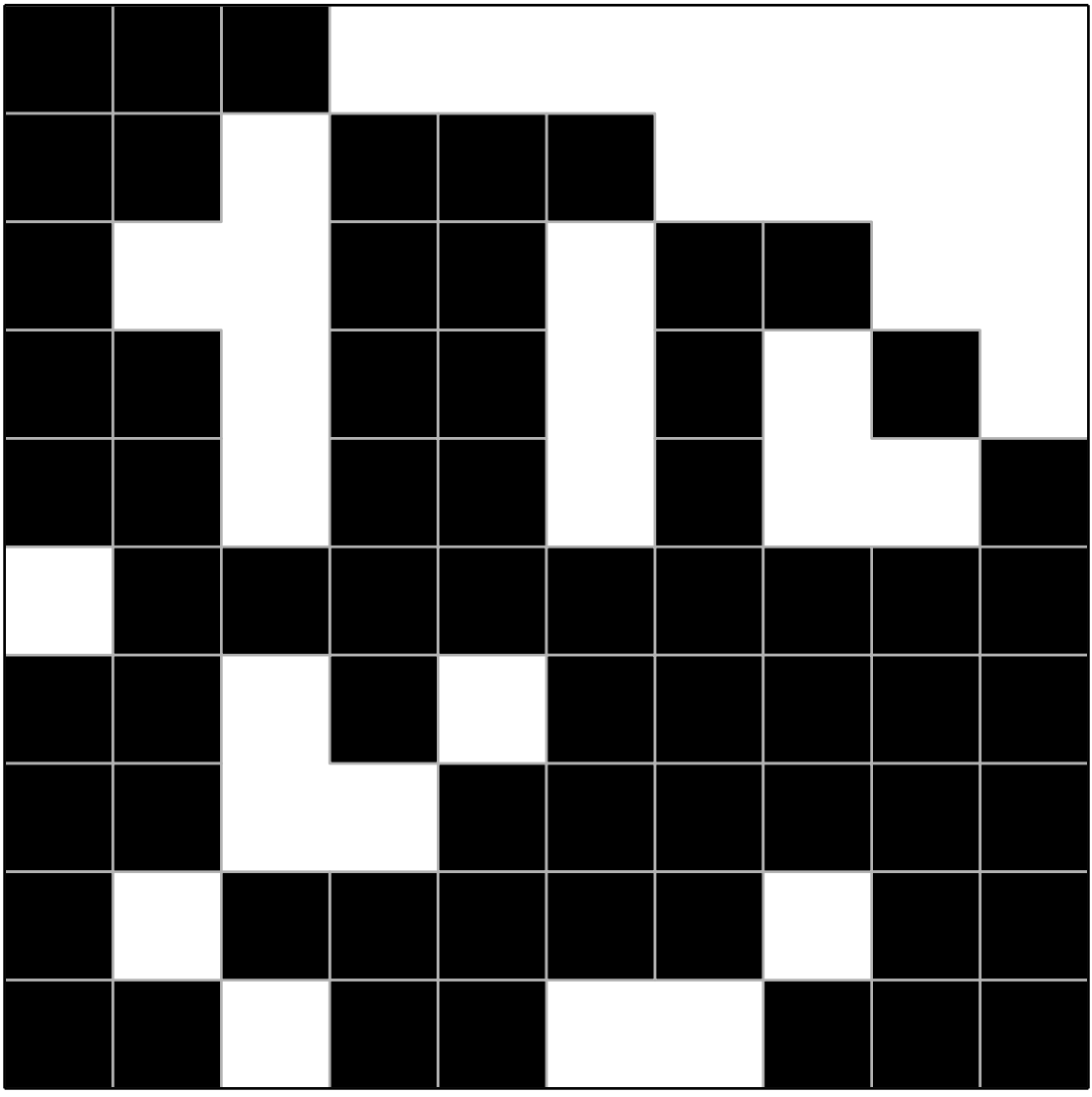
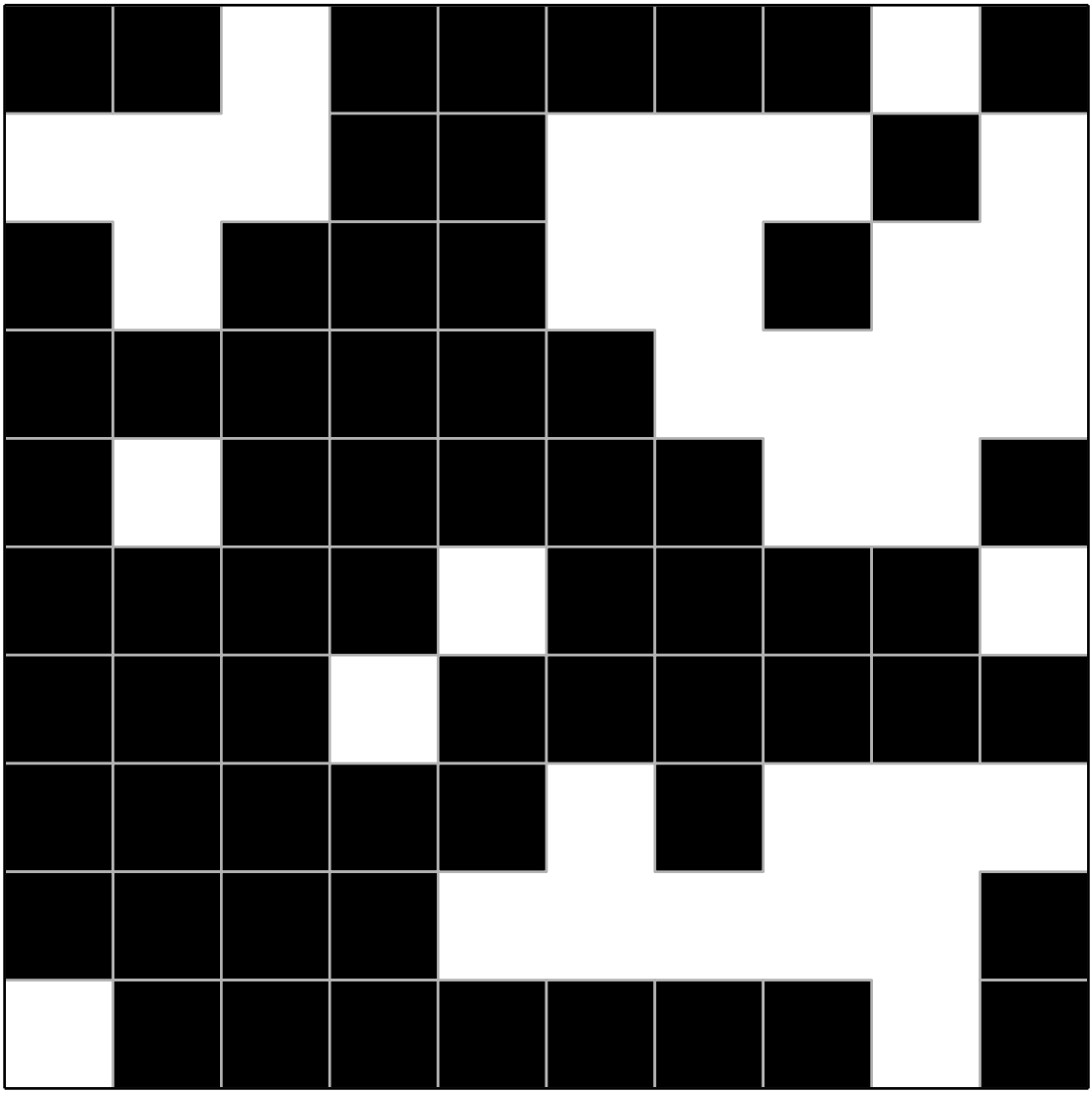


lib3_eco5-08 10x10 (65) con: 5, var: 5



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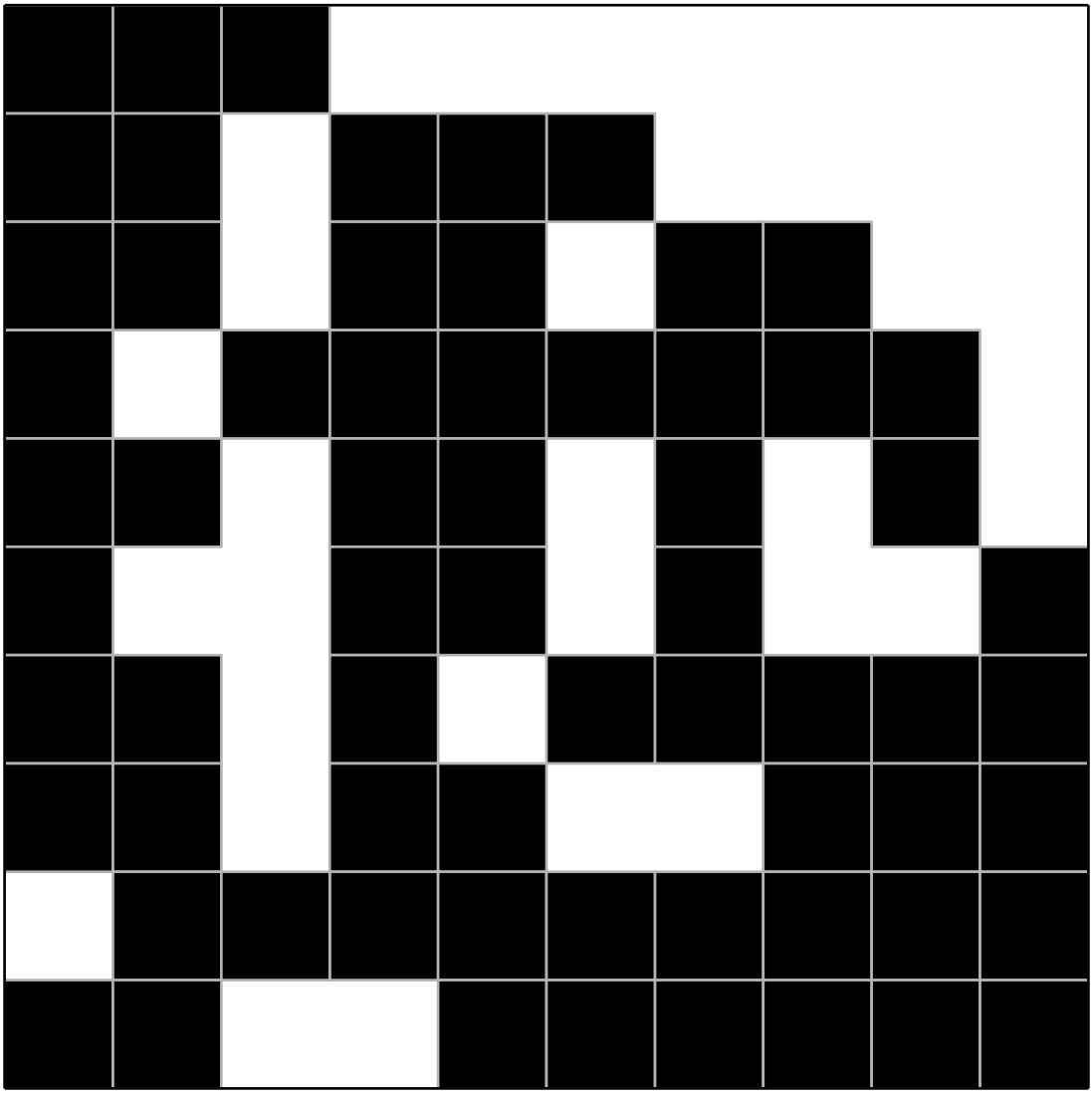
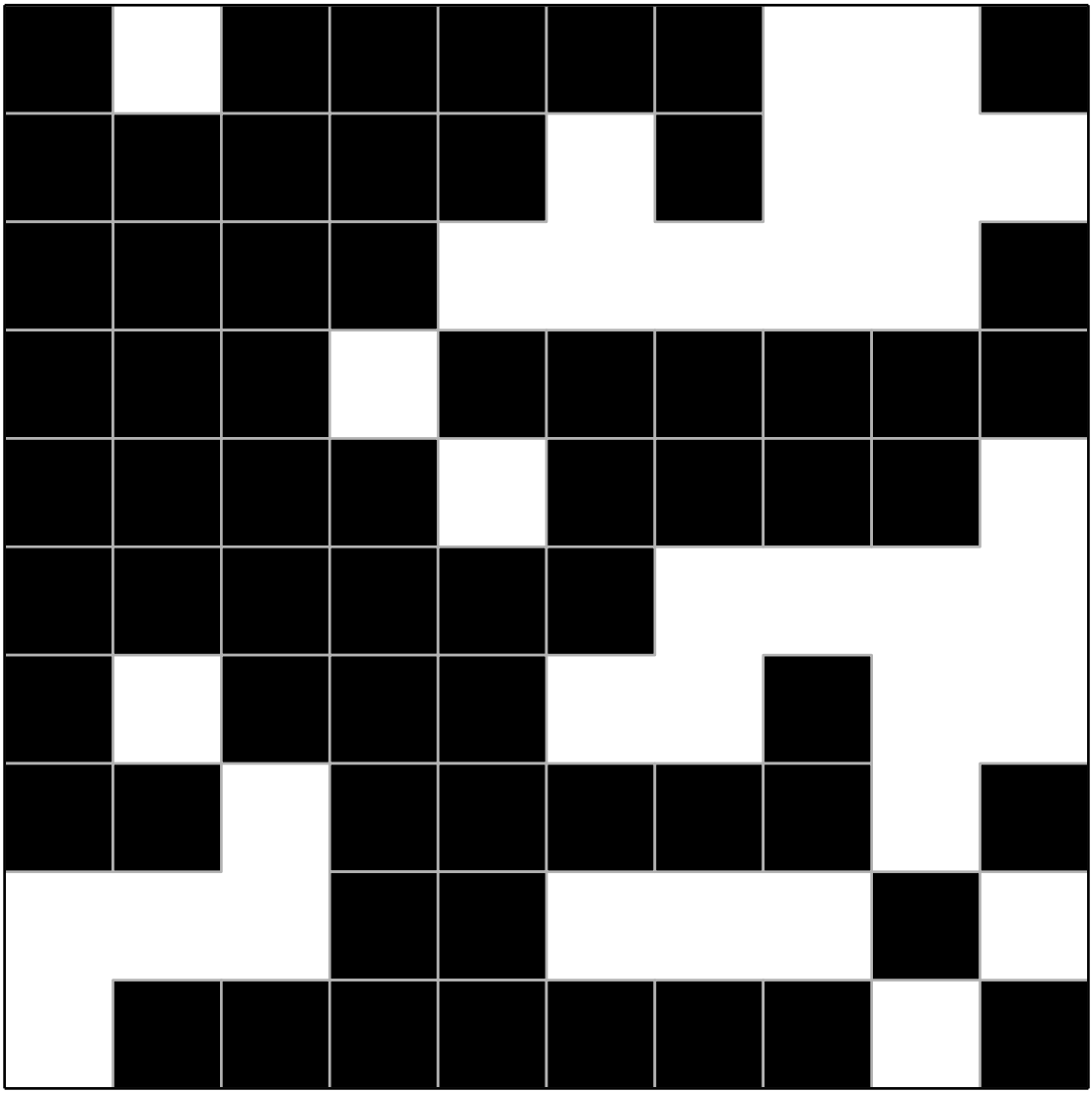


lib3_eco5-09 10x10 (65) con: 5, var: 5



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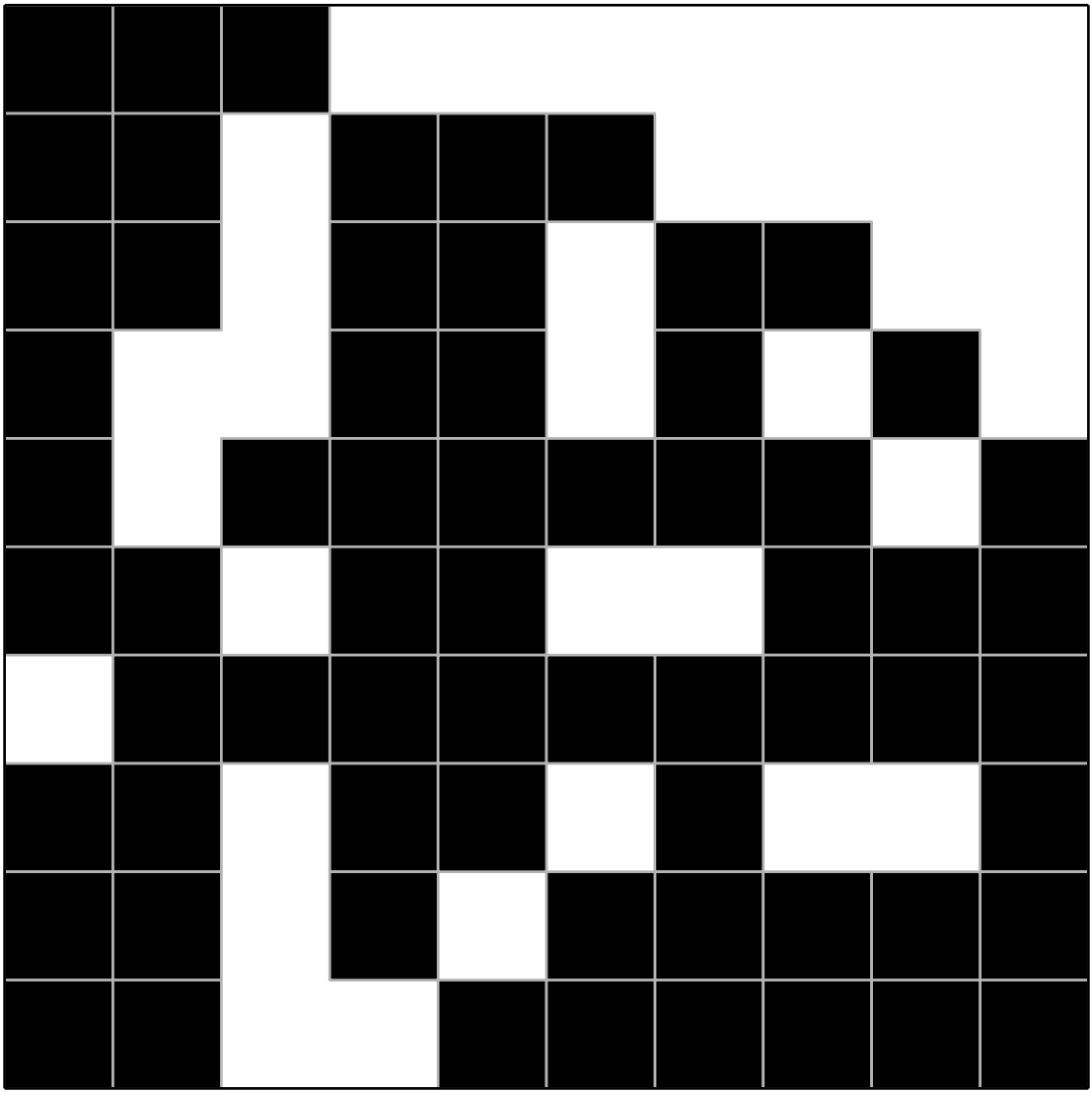
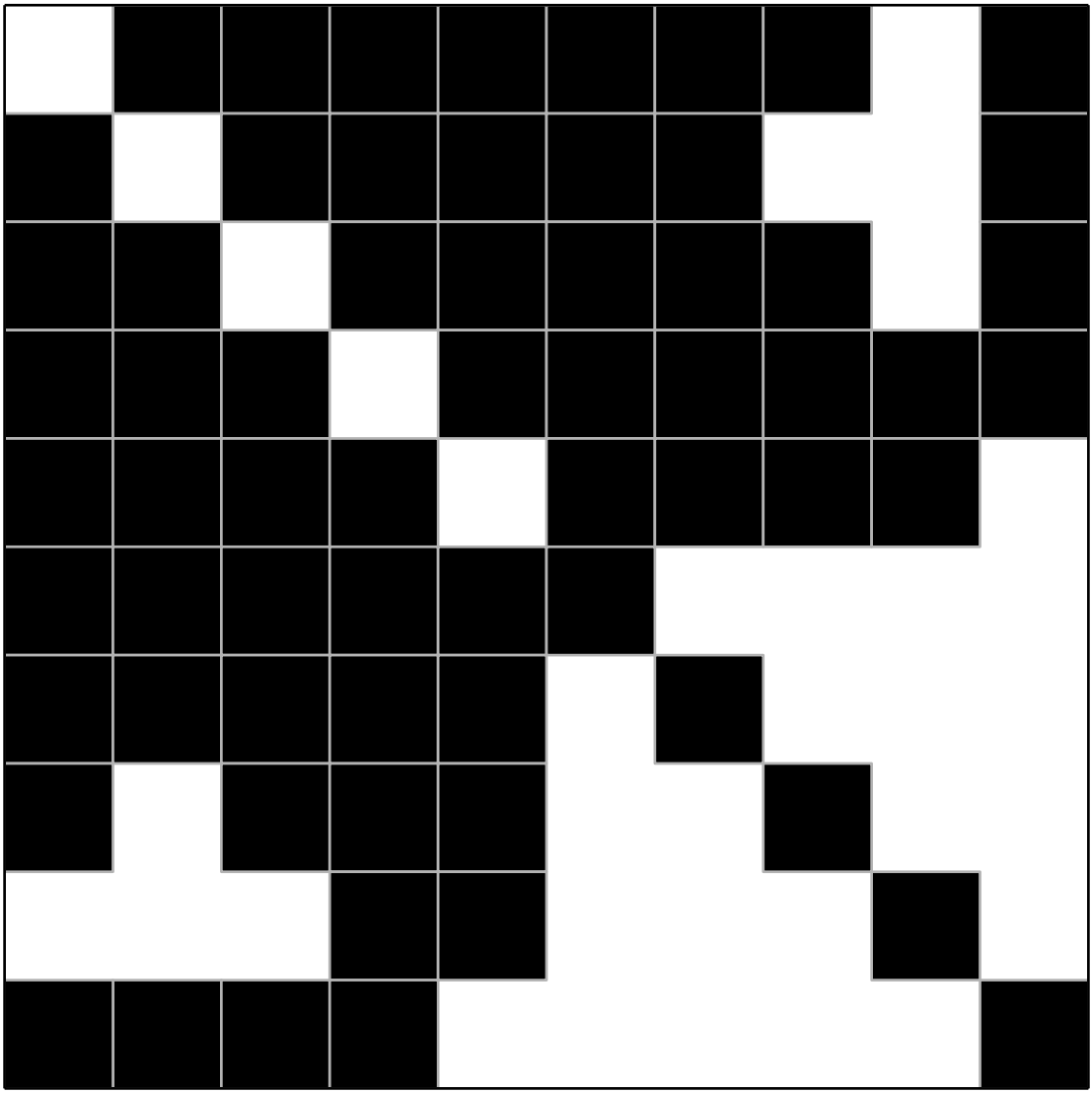
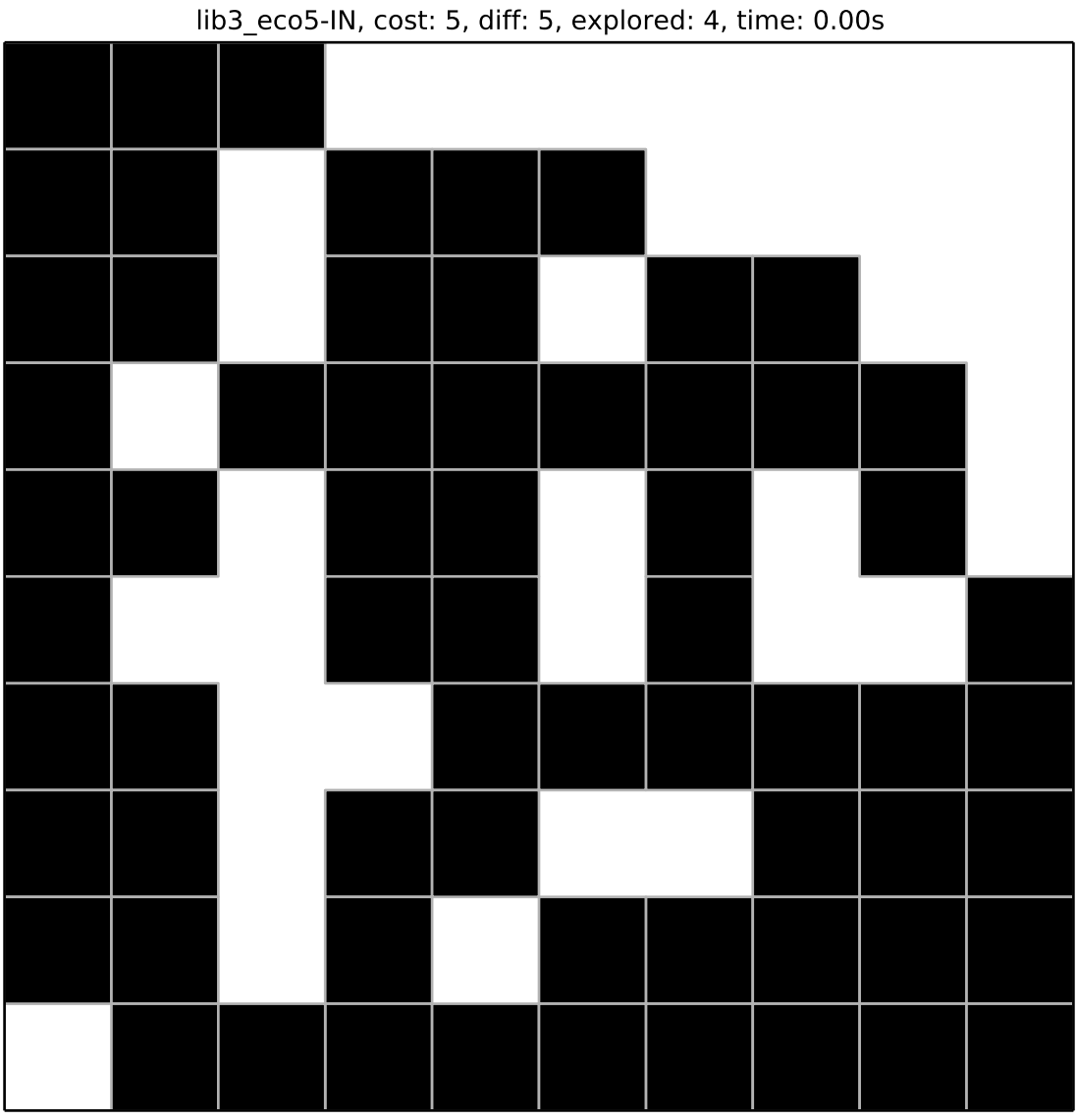


lib3_eco5-IN 10x10 (65) con: 5, var: 5

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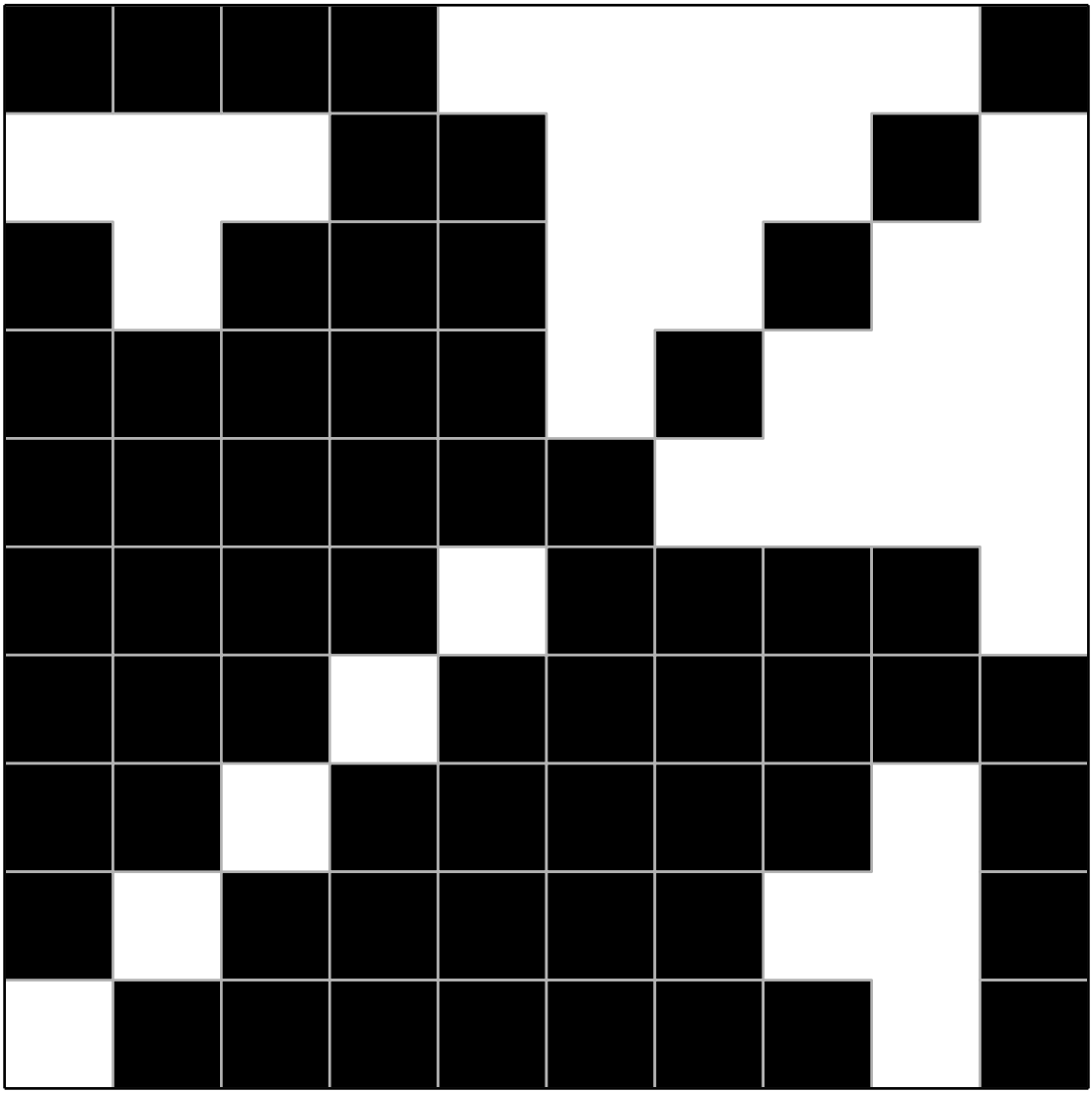
lib3_eco5-RE 10x10 (65) con: 5, var: 5



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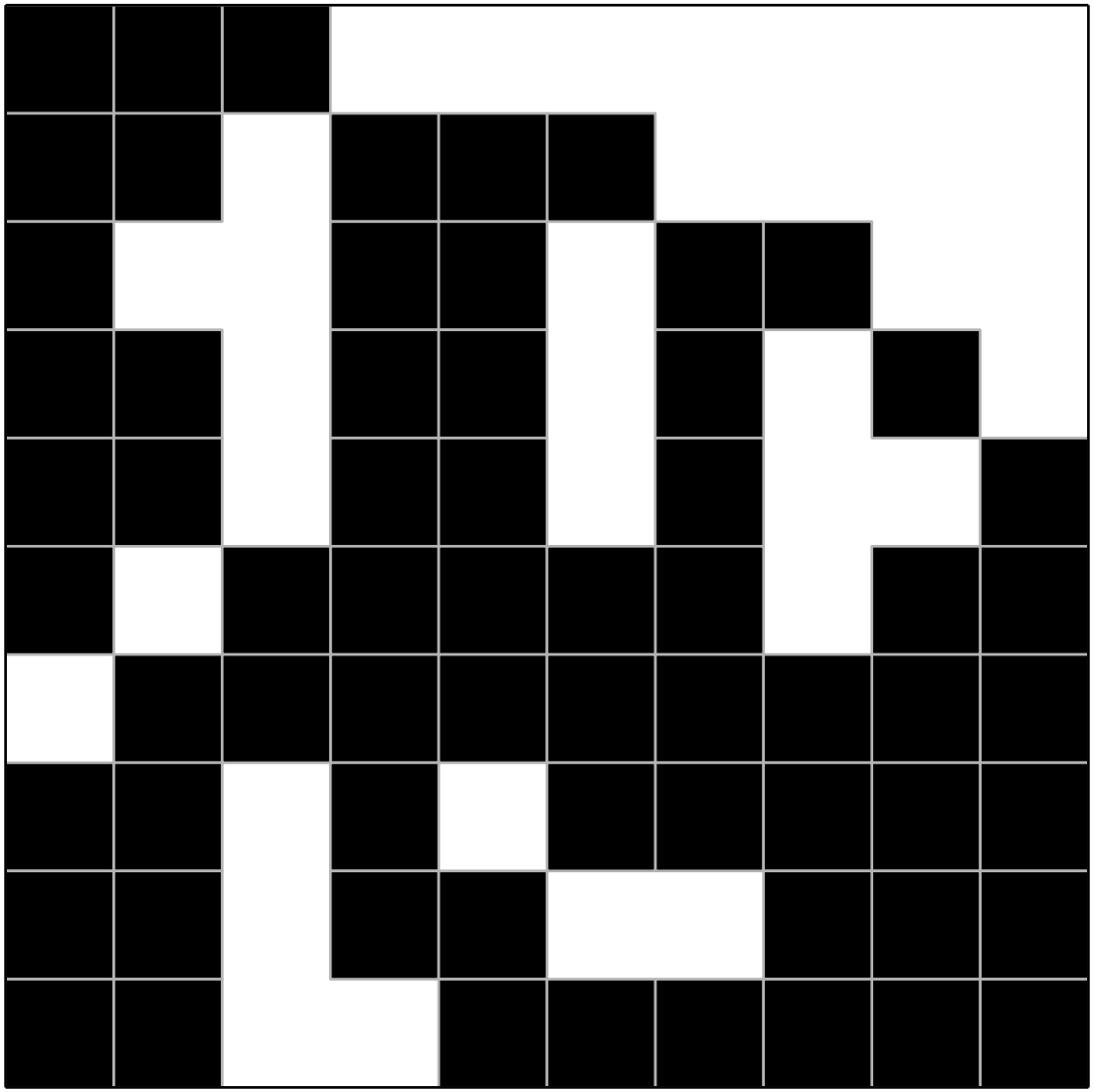
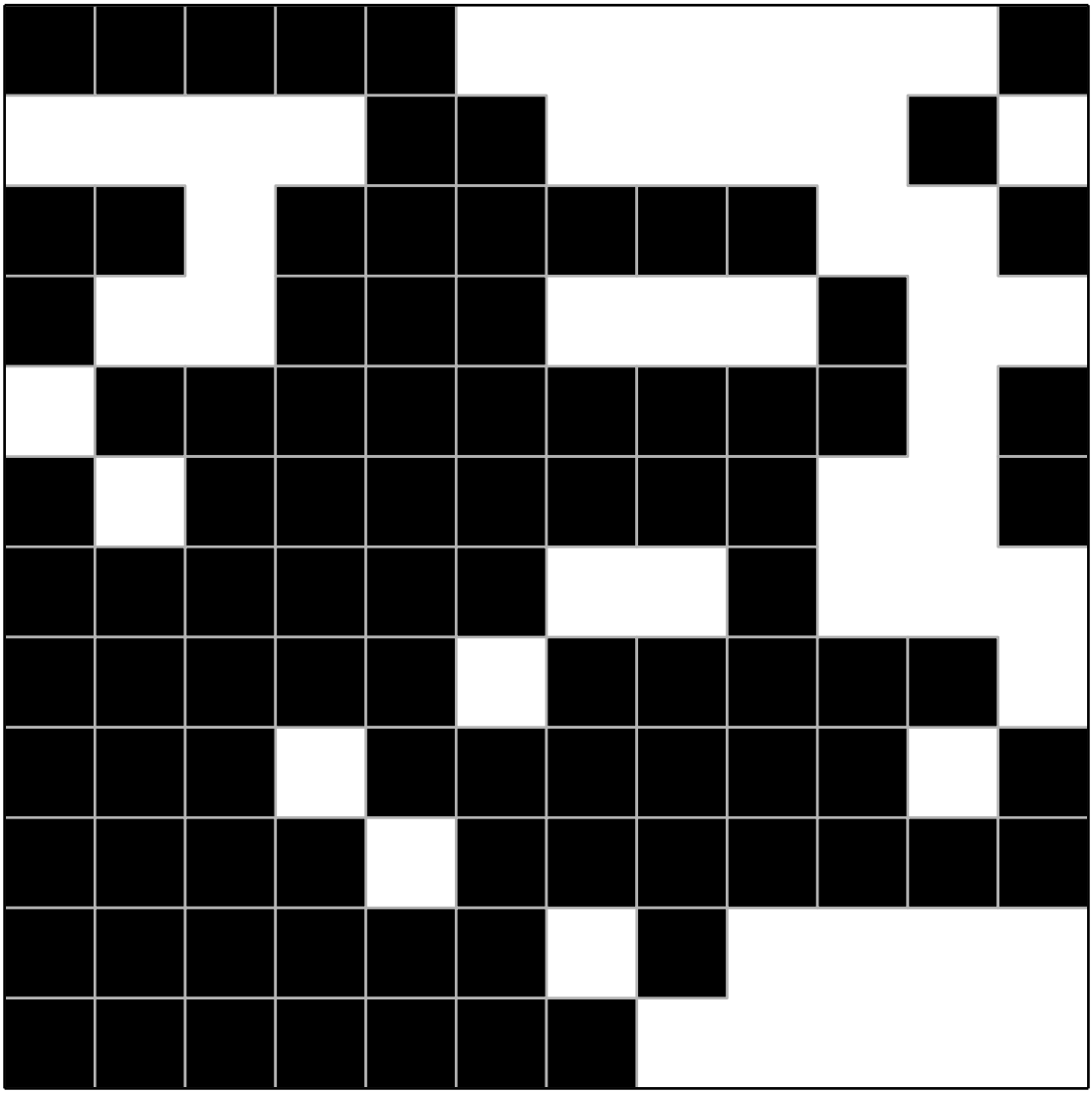
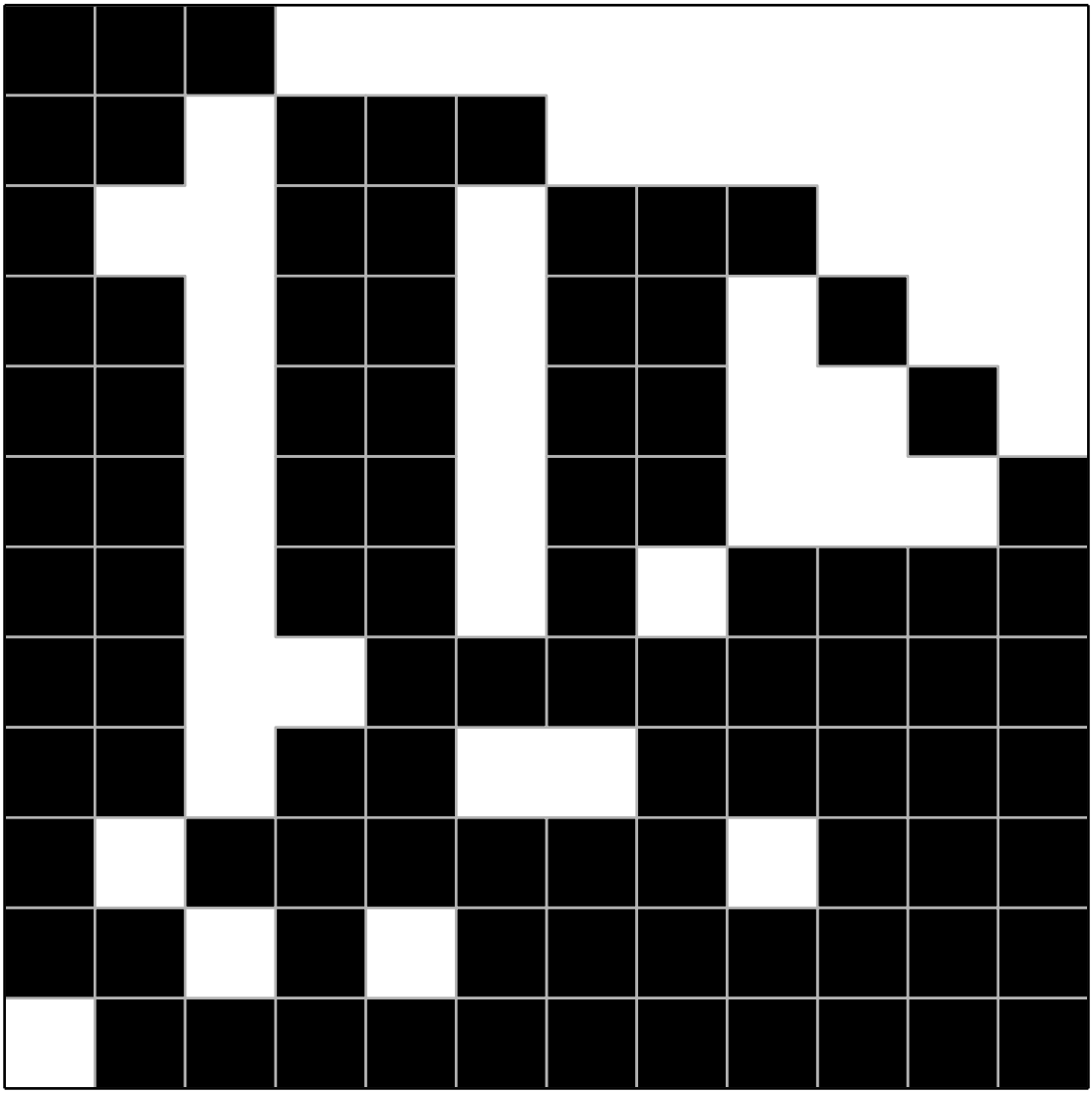


lib3_eco6-00 12x12 (94) con: 6, var: 6

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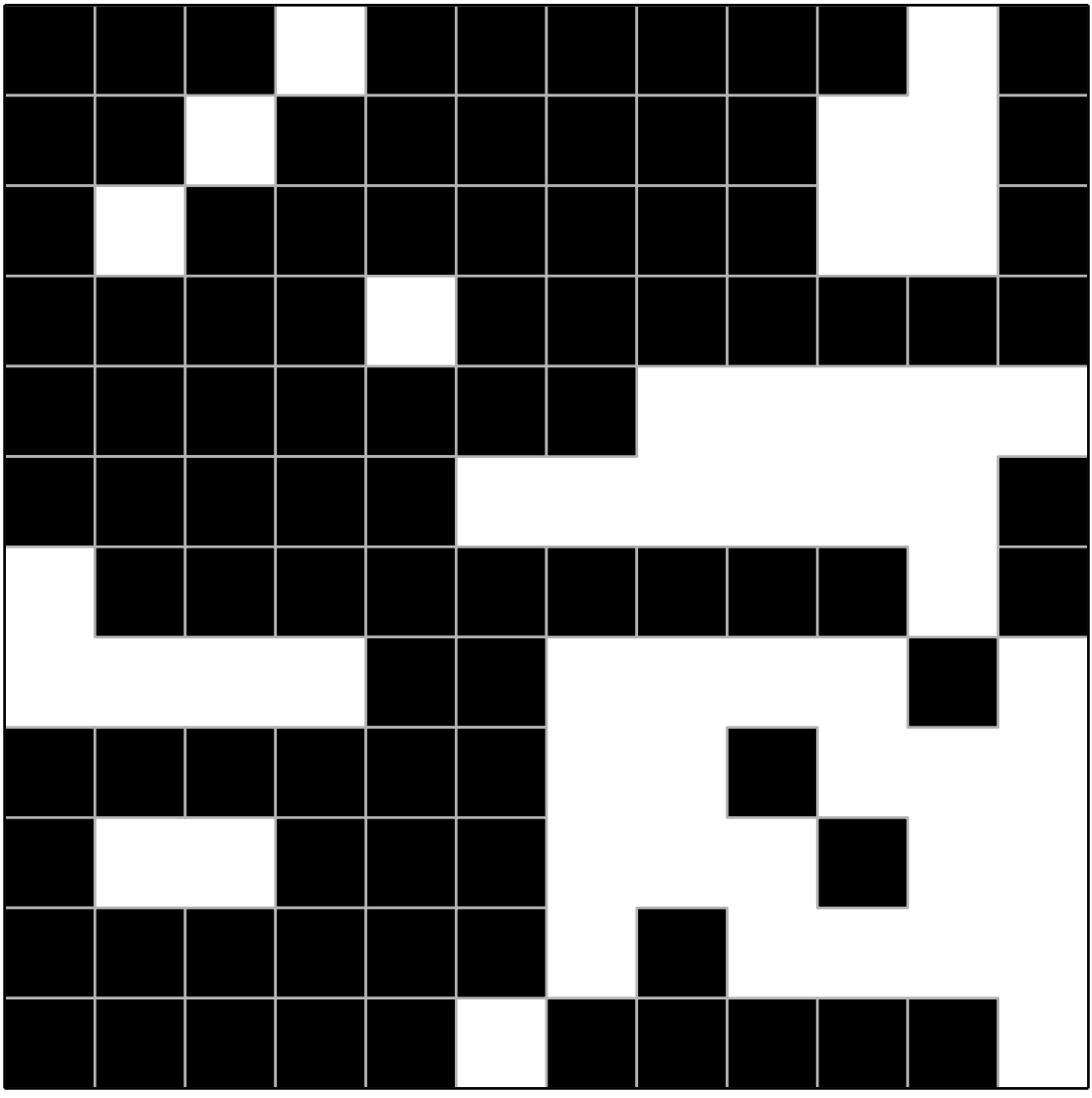
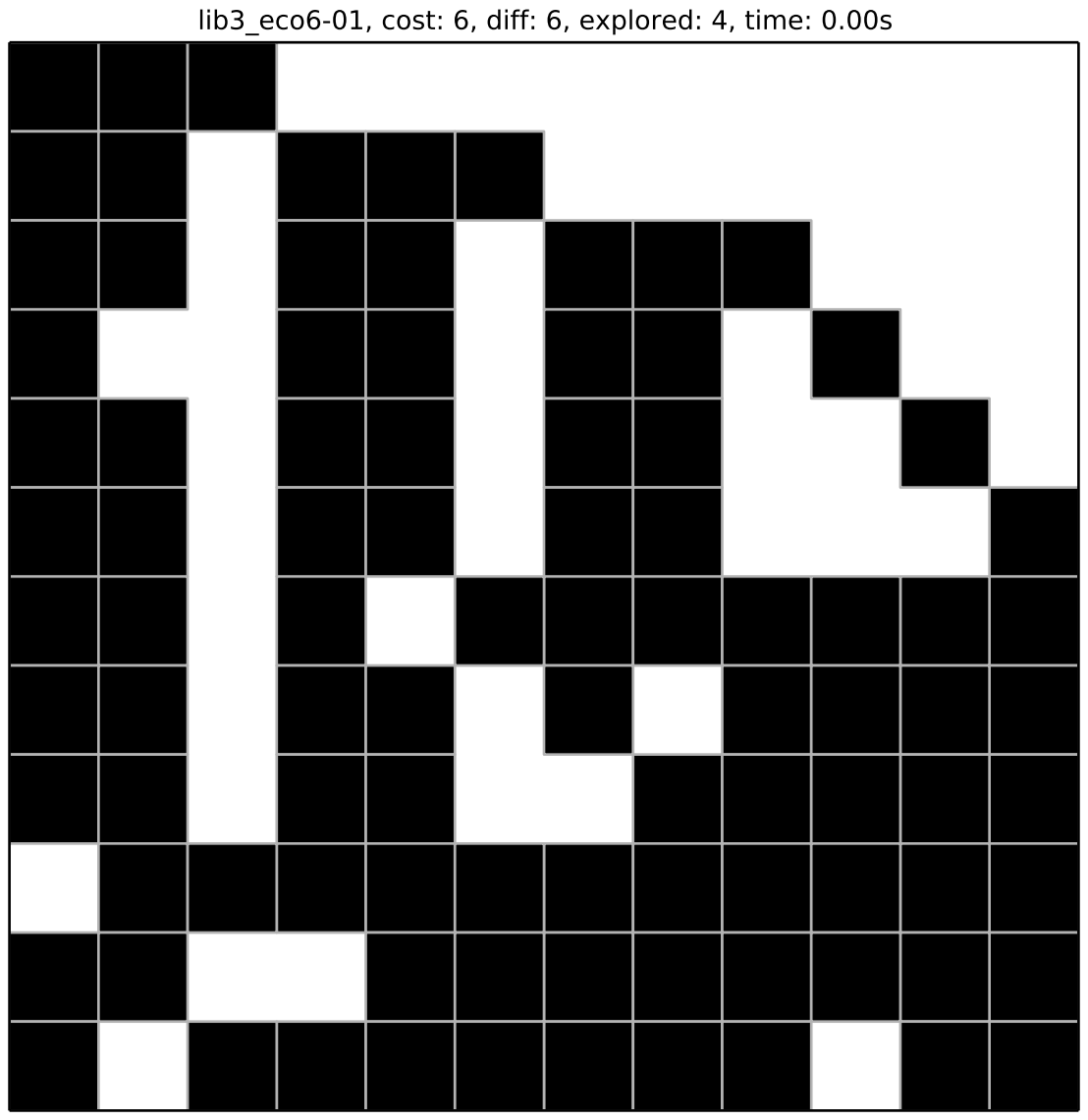
lib3_eco6-01 12x12 (94) con: 6, var: 6

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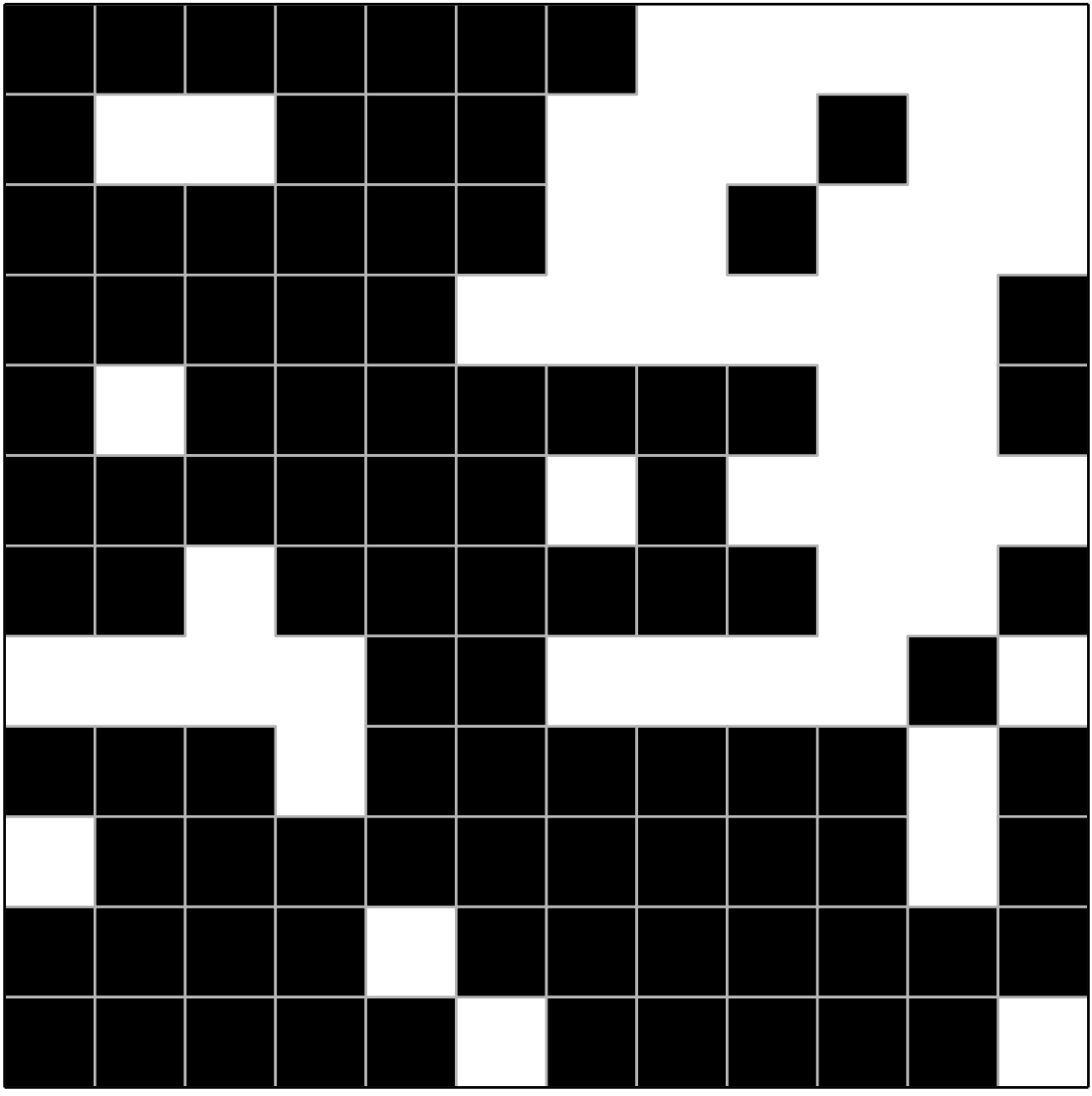
lib3_eco6-02 12x12 (94) con: 6, var: 6



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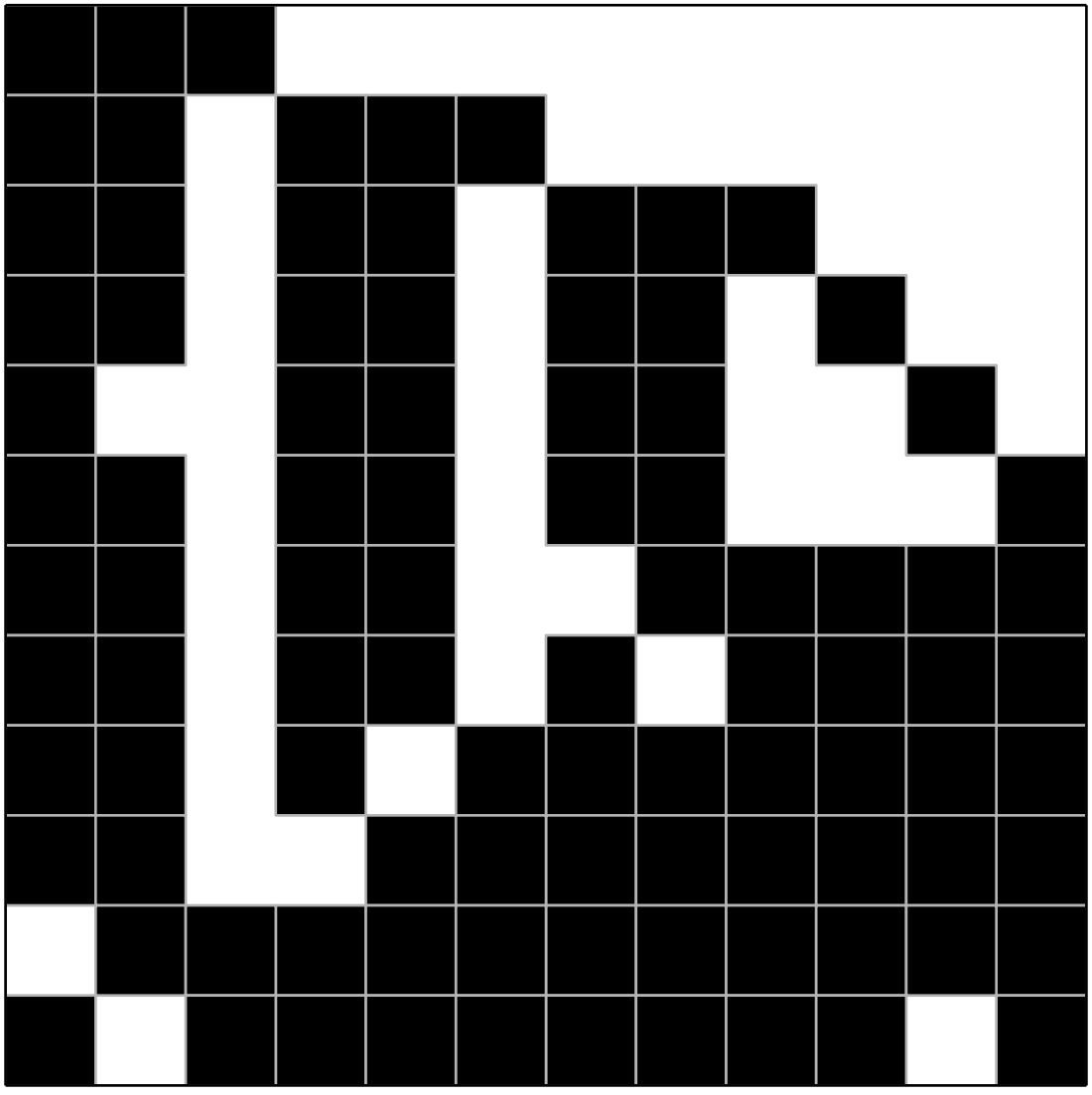
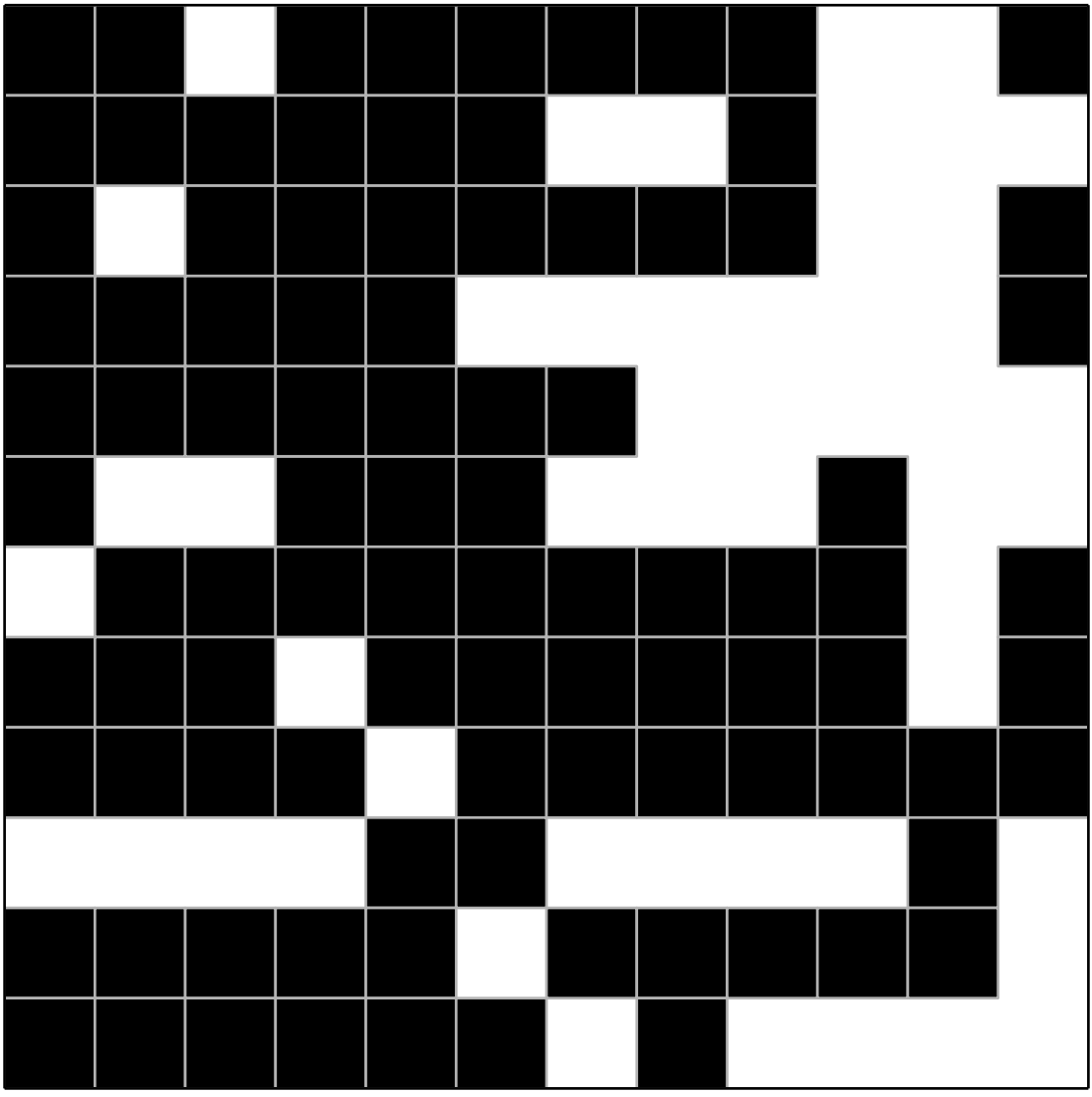
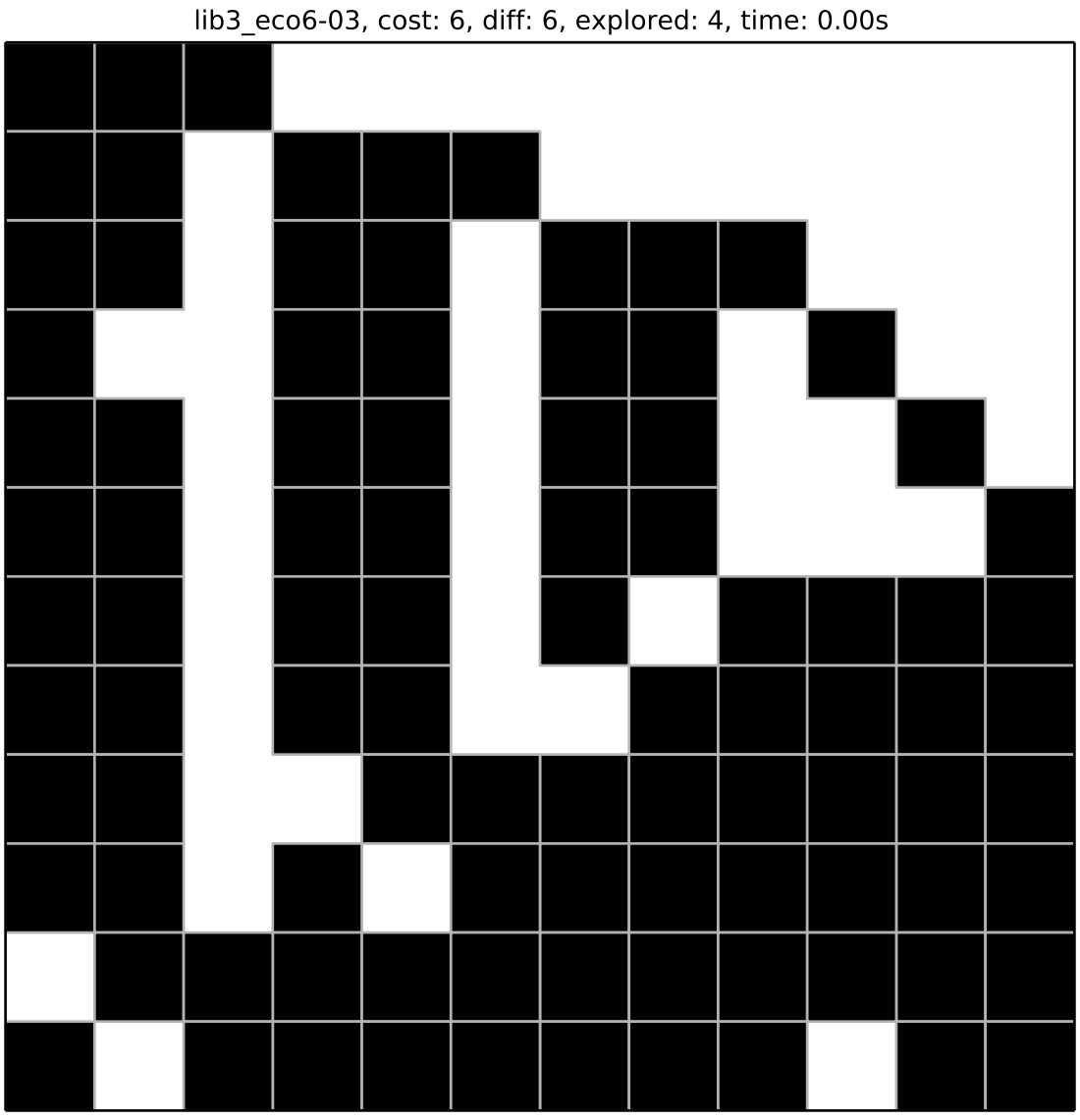


lib3_eco6-03 12x12 (94) con: 6, var: 6

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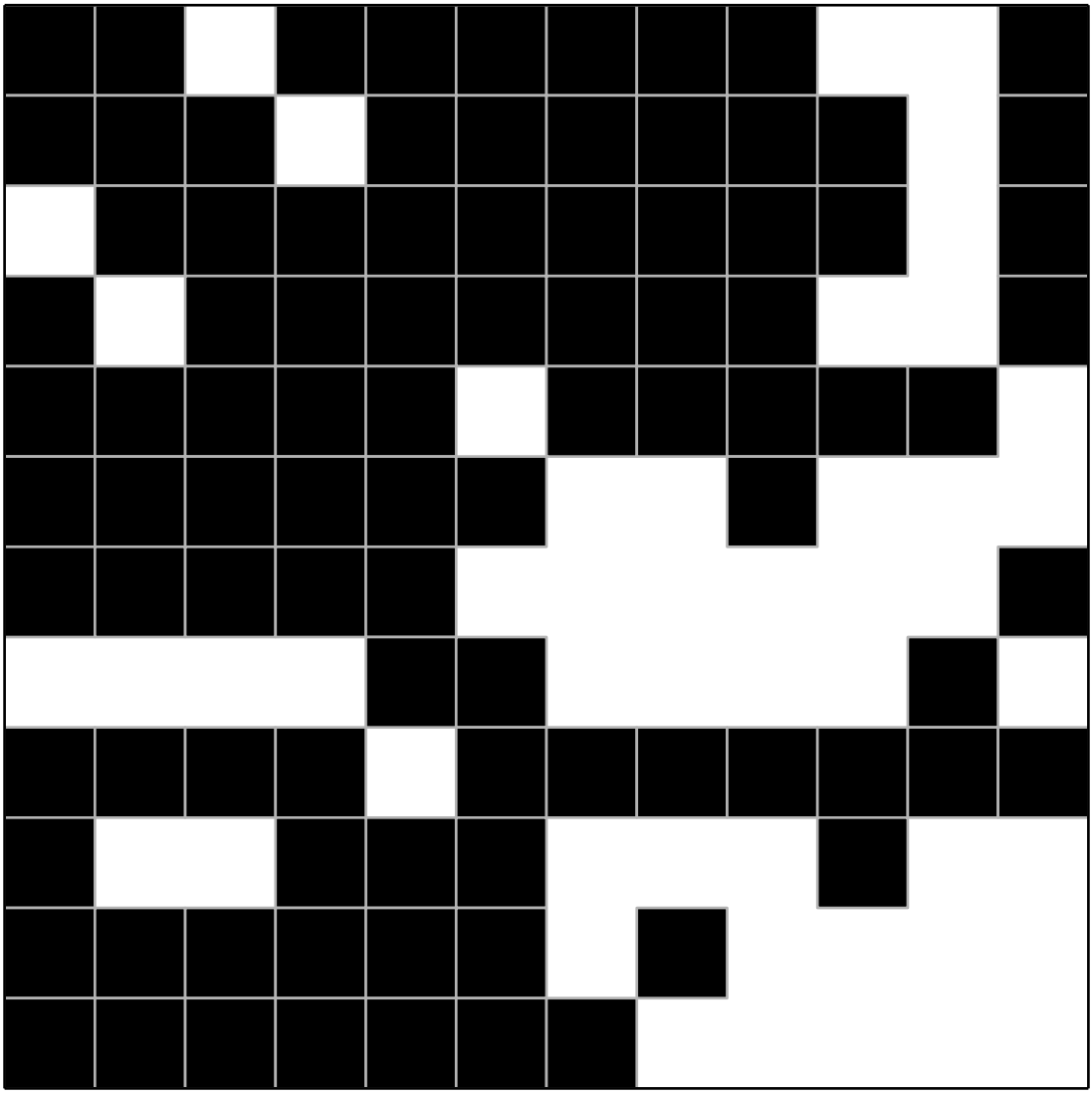
lib3_eco6-04 12x12 (94) con: 6, var: 6



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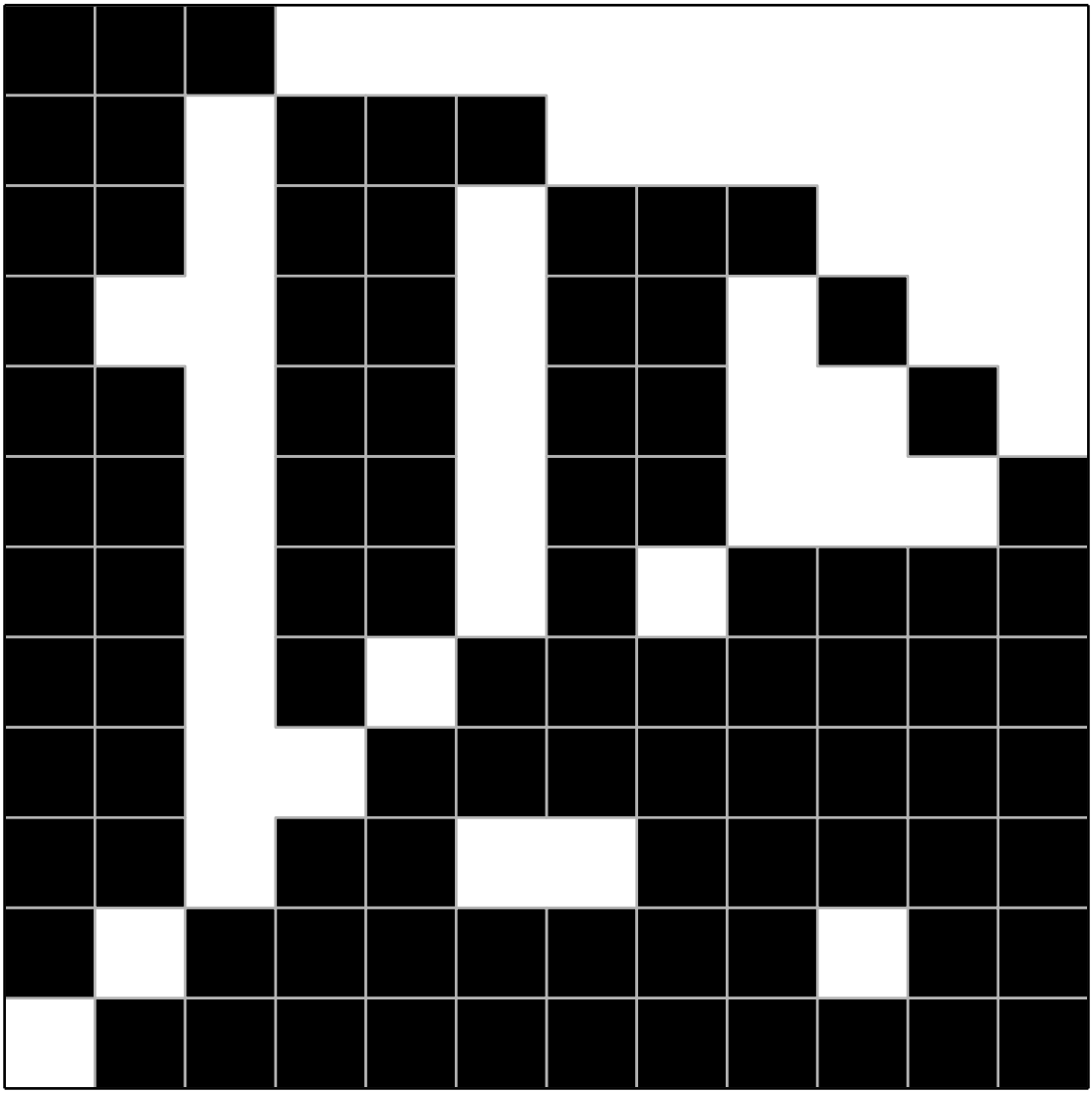

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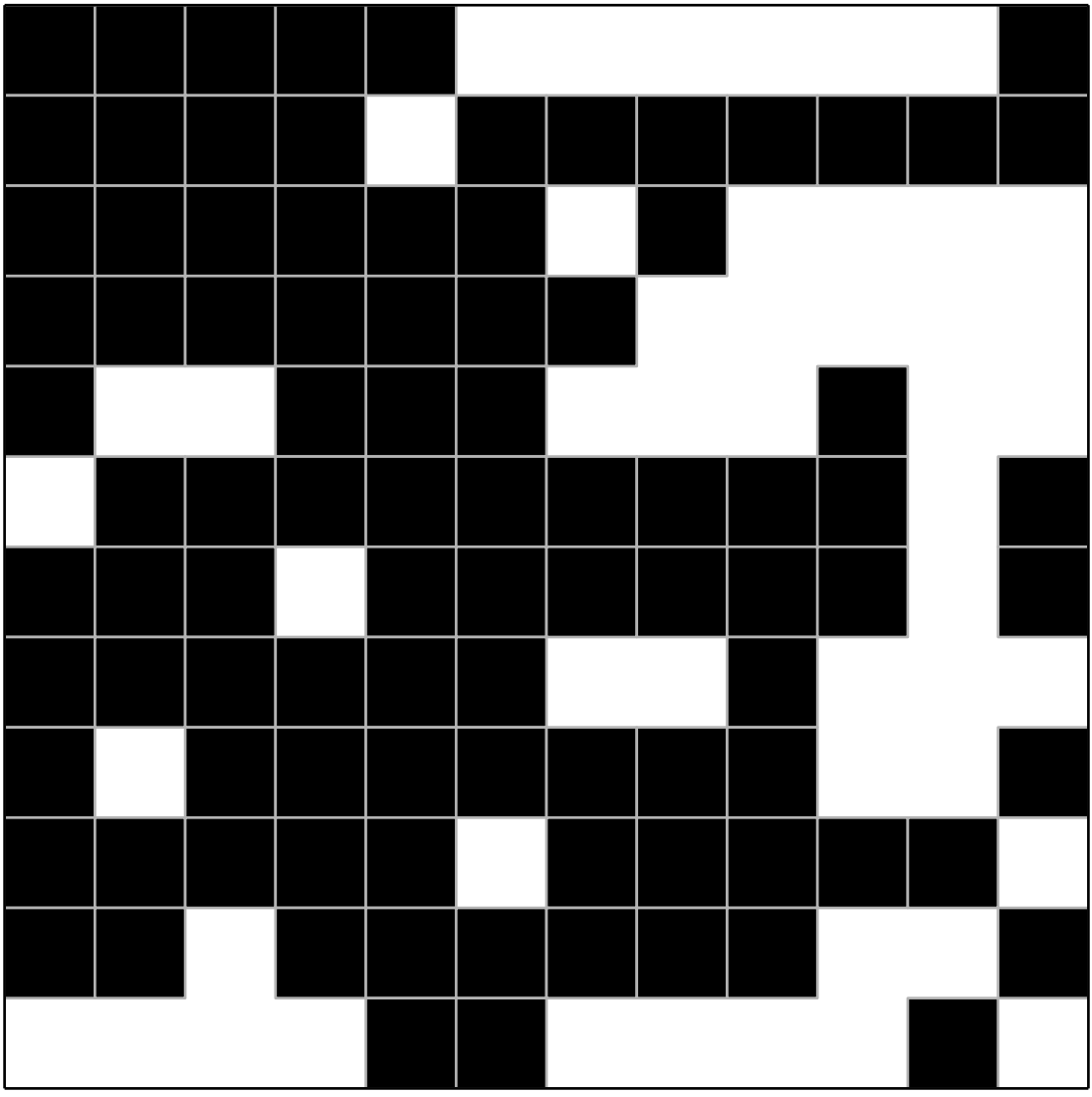

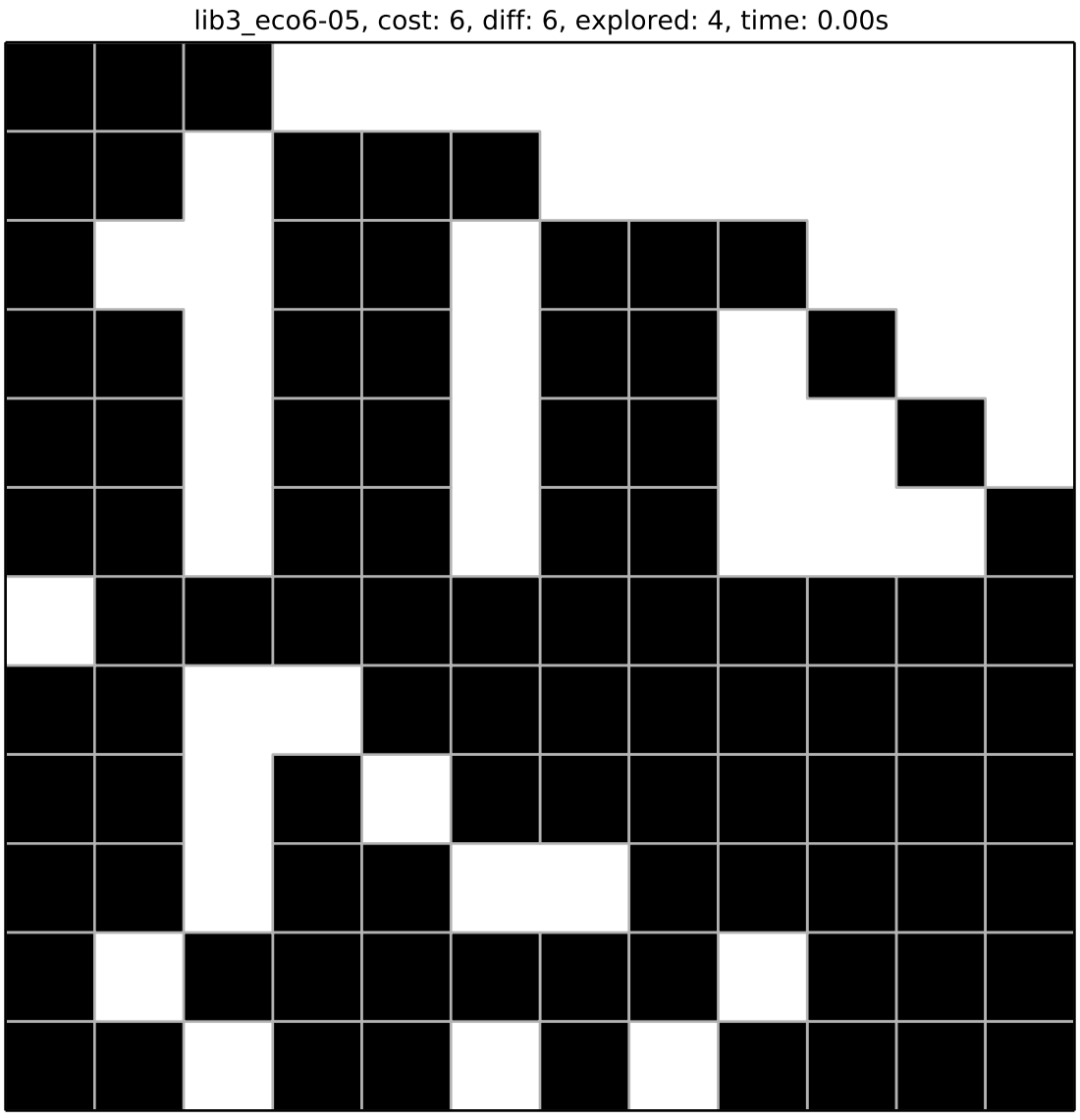
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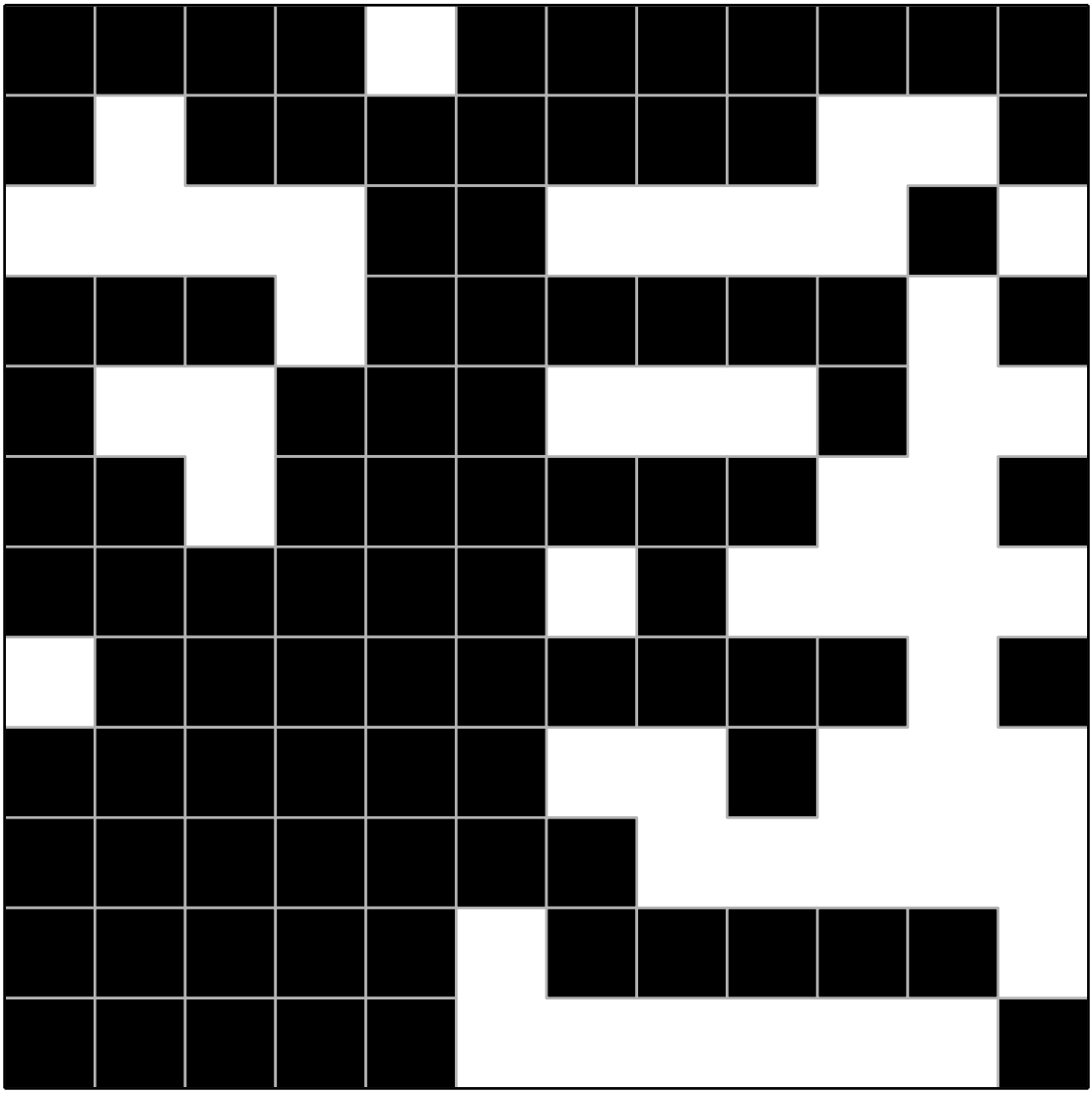
lib3_eco6-06 12x12 (94) con: 6, var: 6



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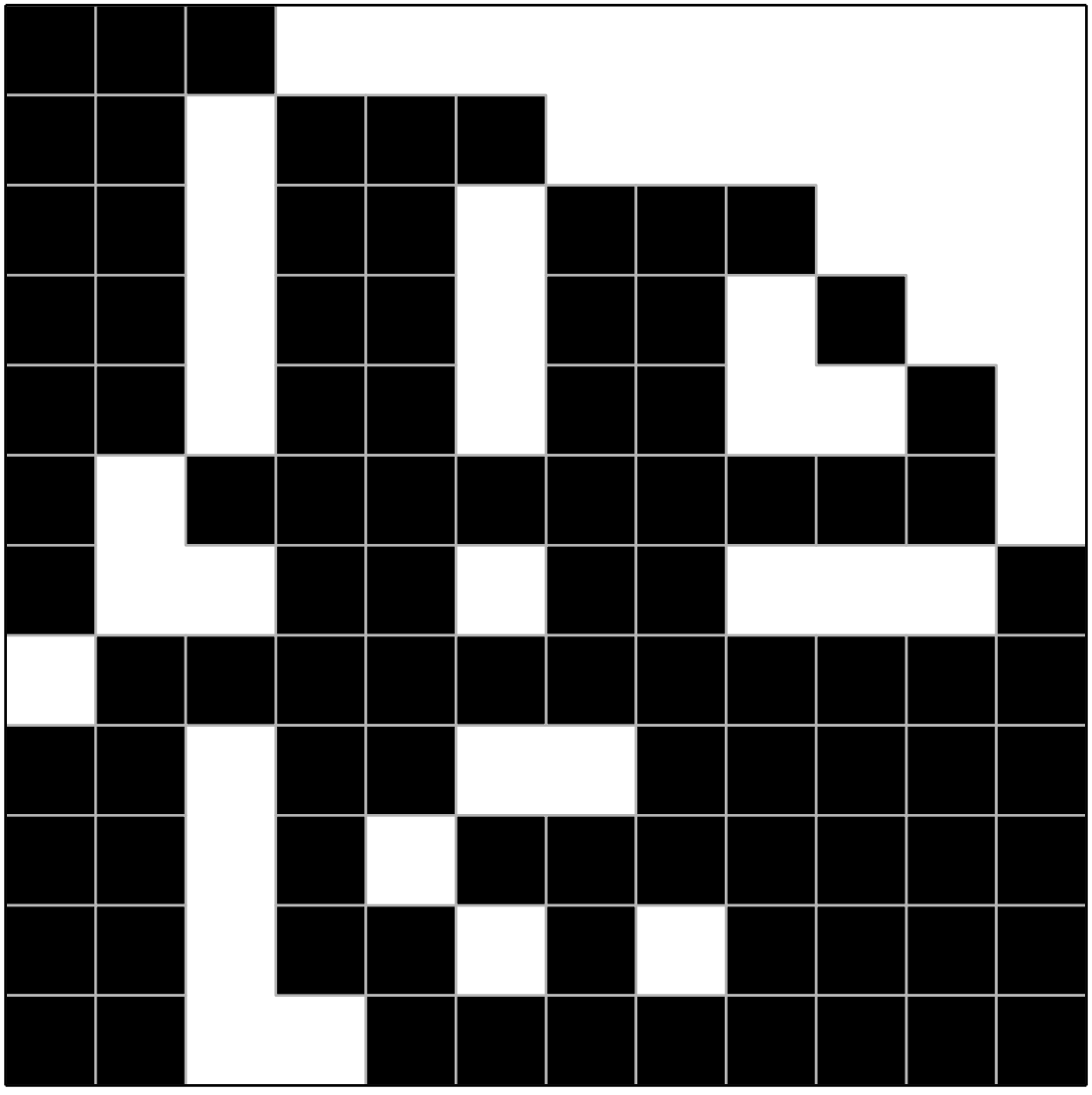
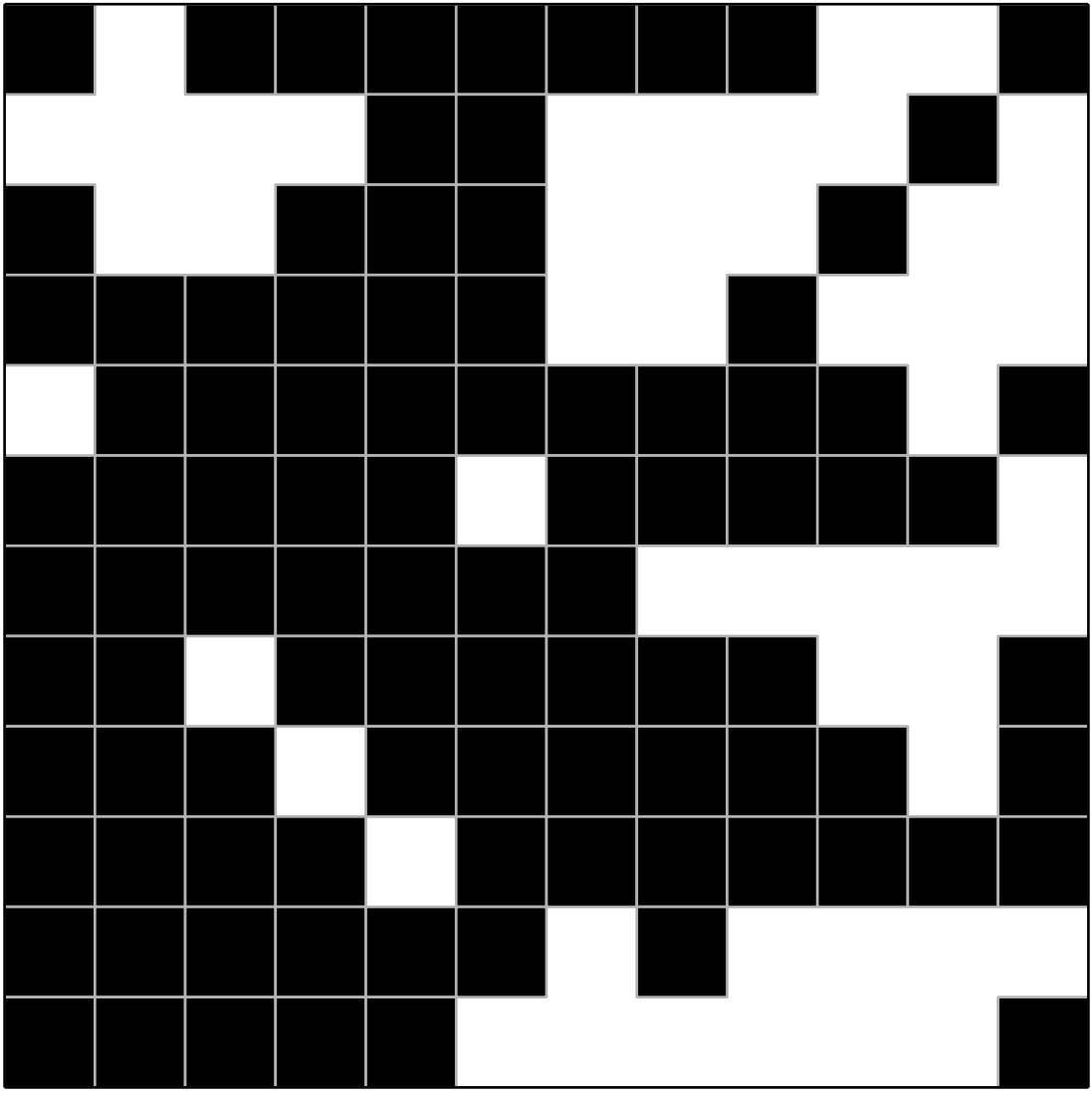


lib3_eco6-07 12x12 (94) con: 6, var: 6



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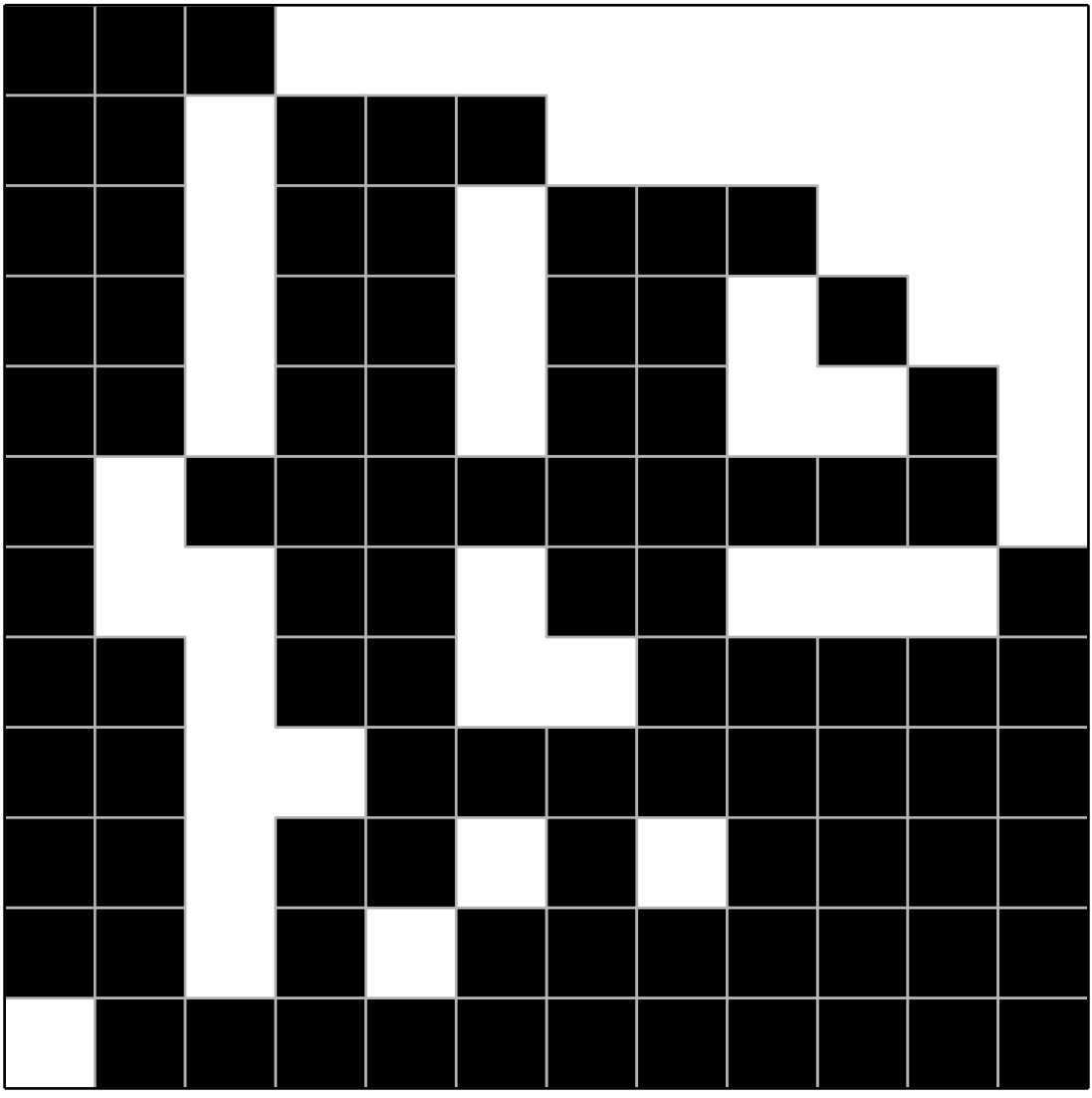
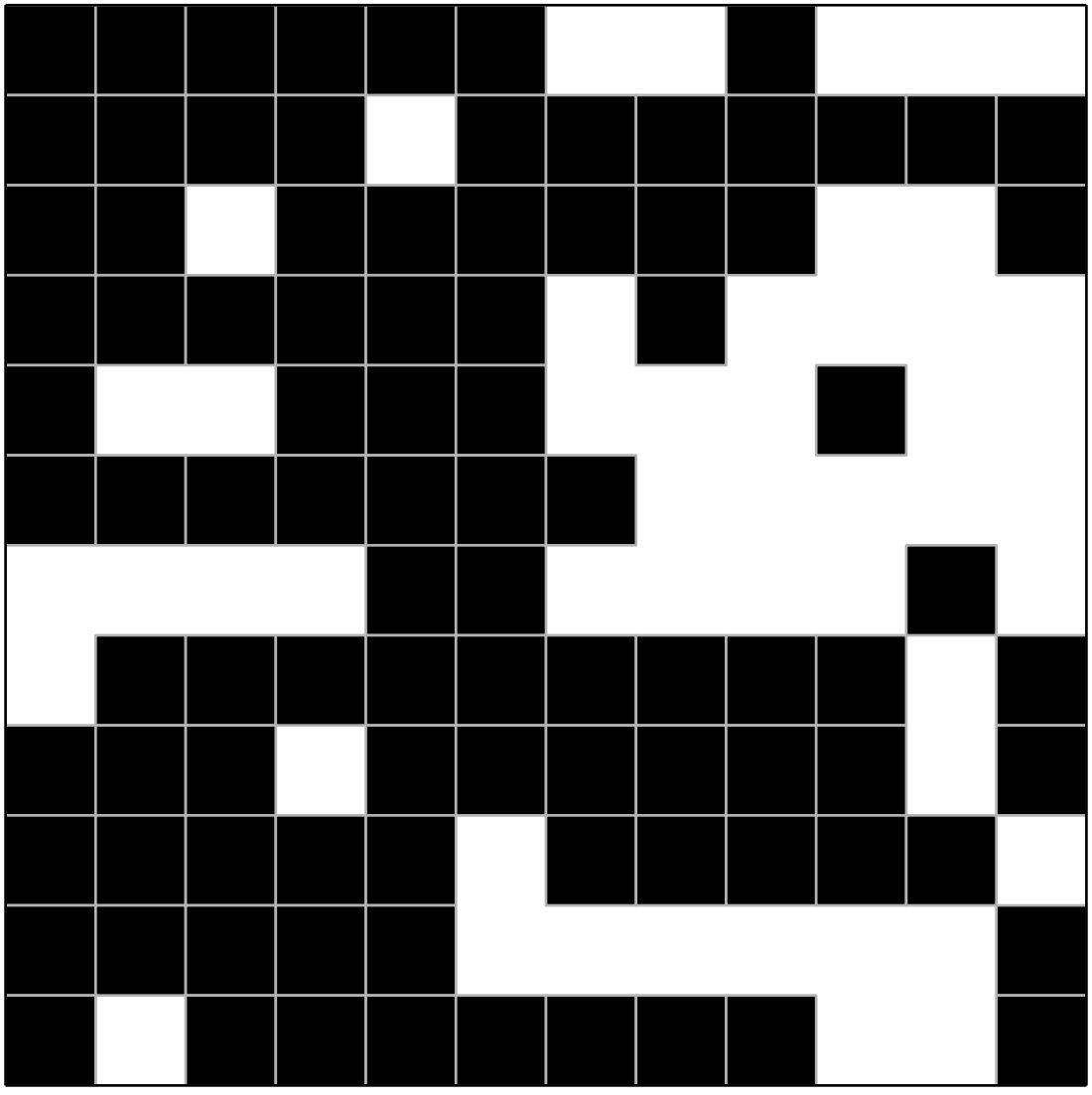
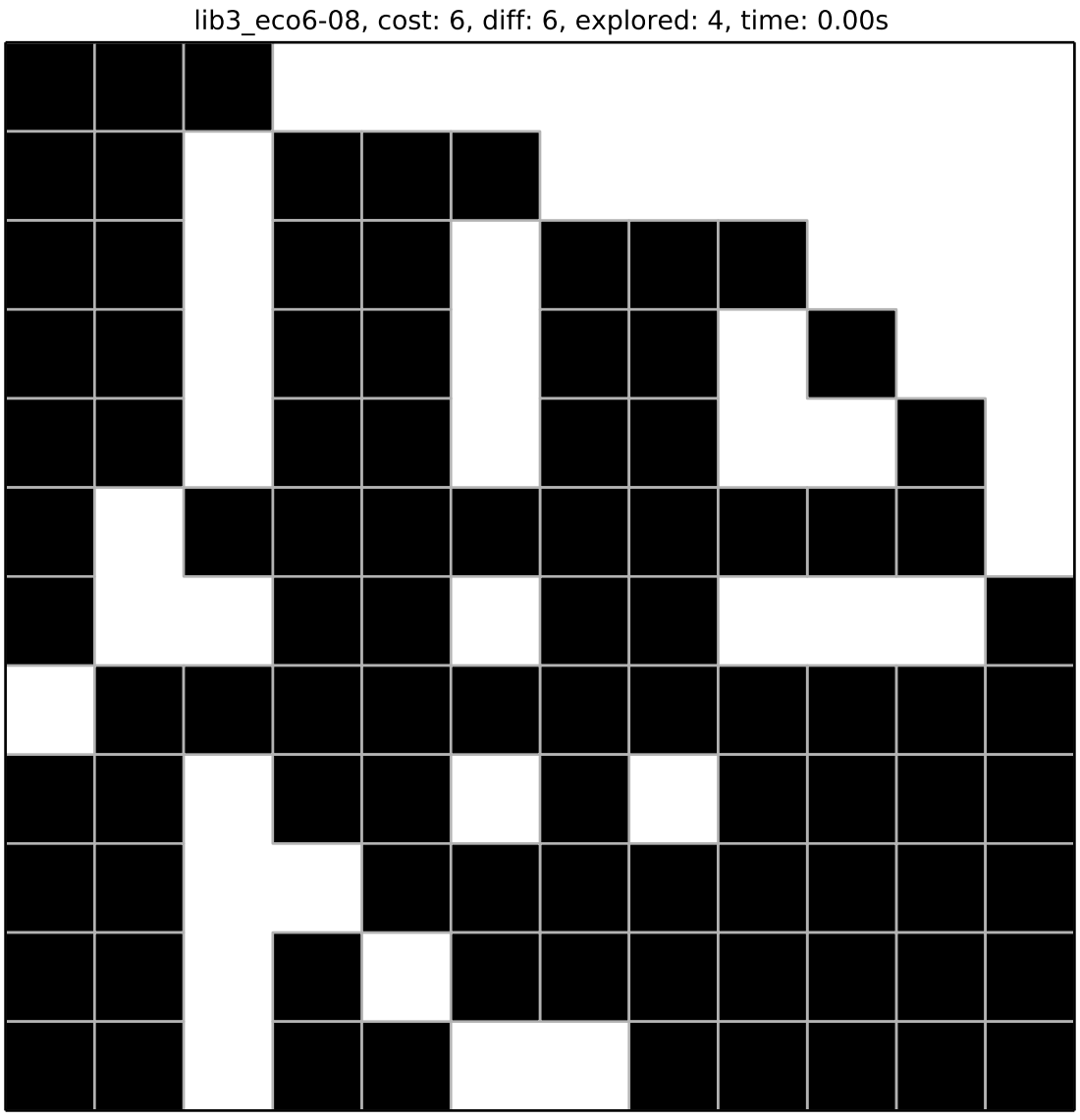


lib3_eco6-08 12x12 (94) con: 6, var: 6

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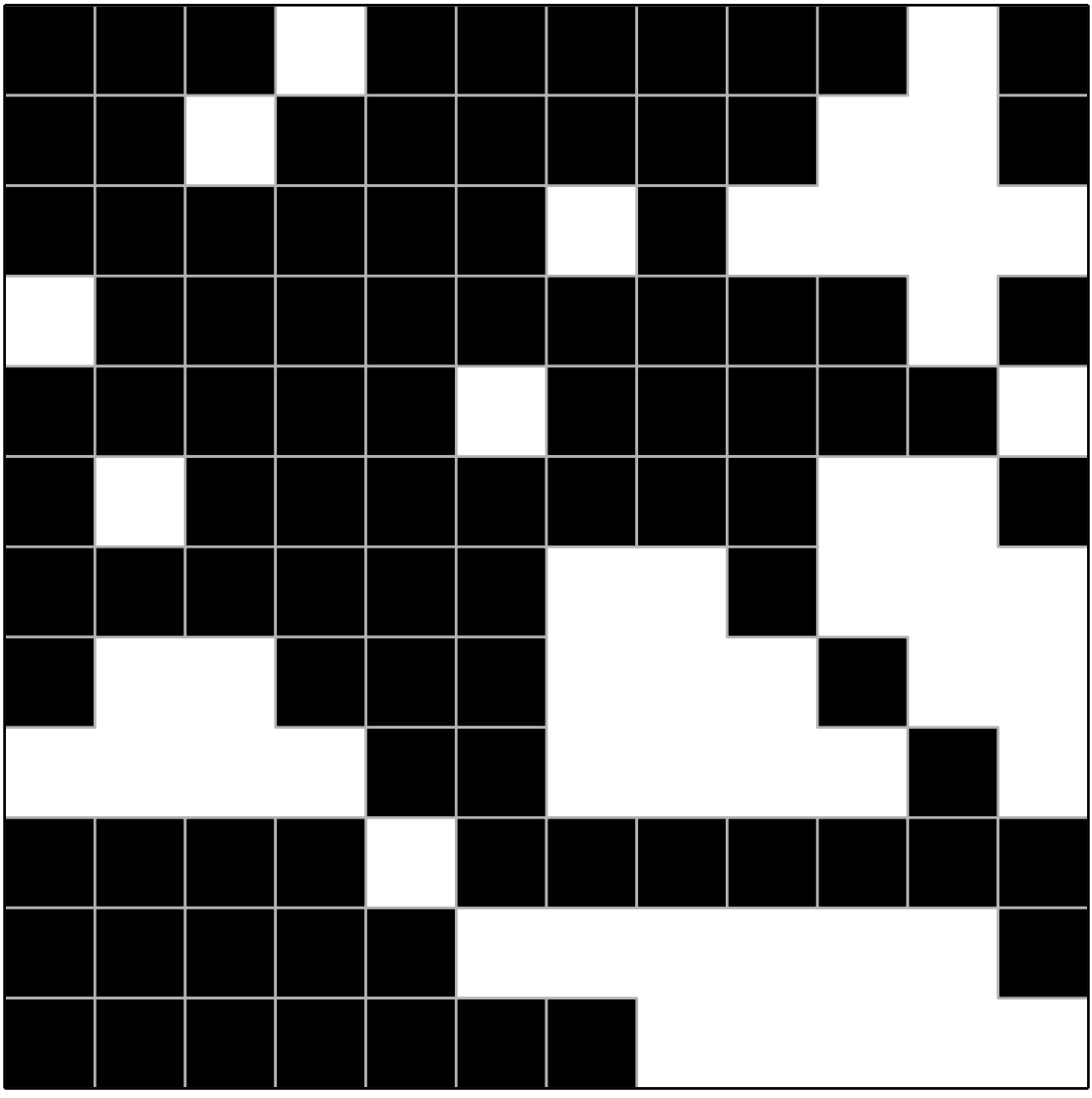
lib3_eco6-09 12x12 (94) con: 6, var: 6



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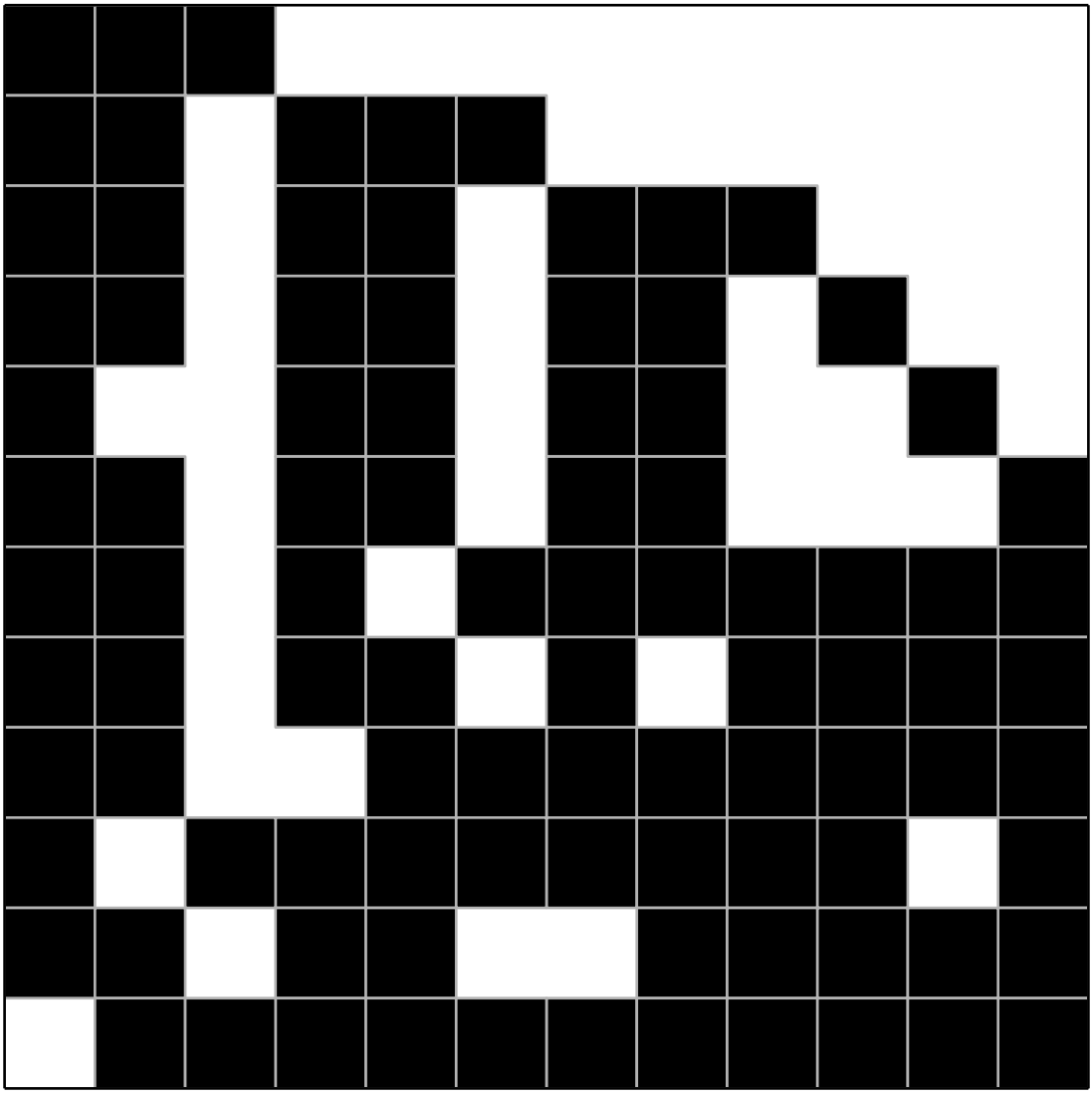
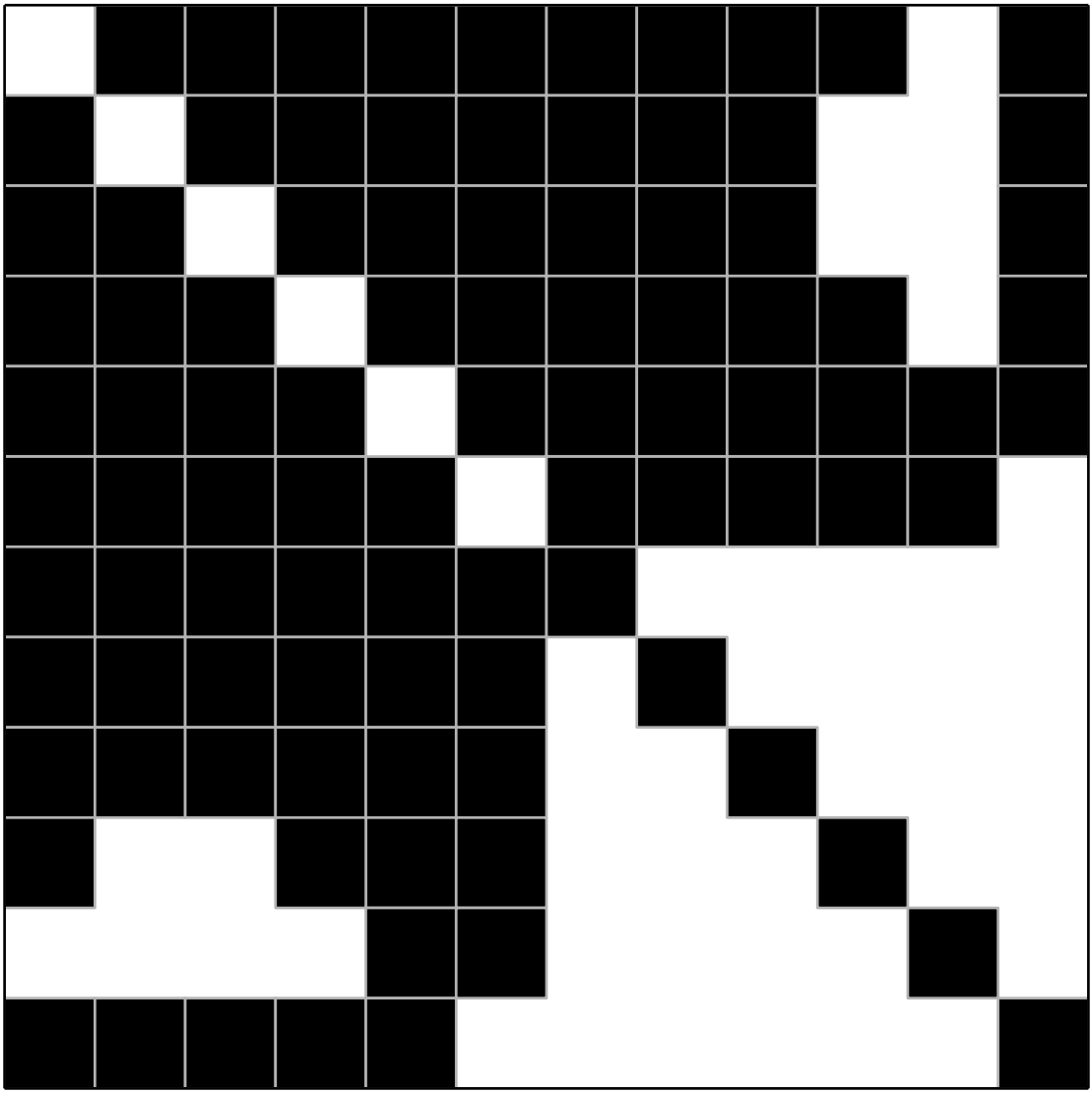
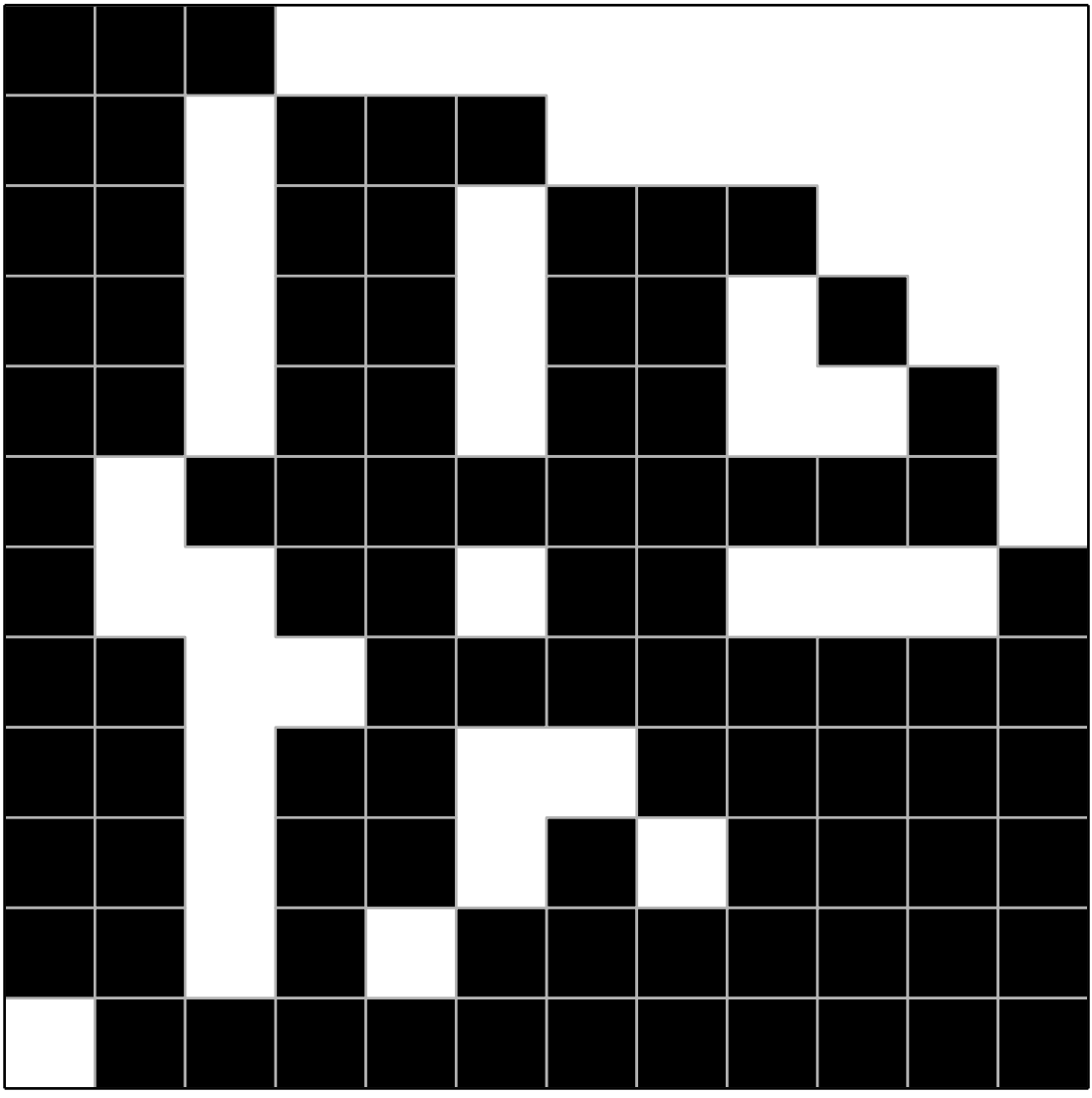


lib3_eco6-IN 12x12 (94) con: 6, var: 6

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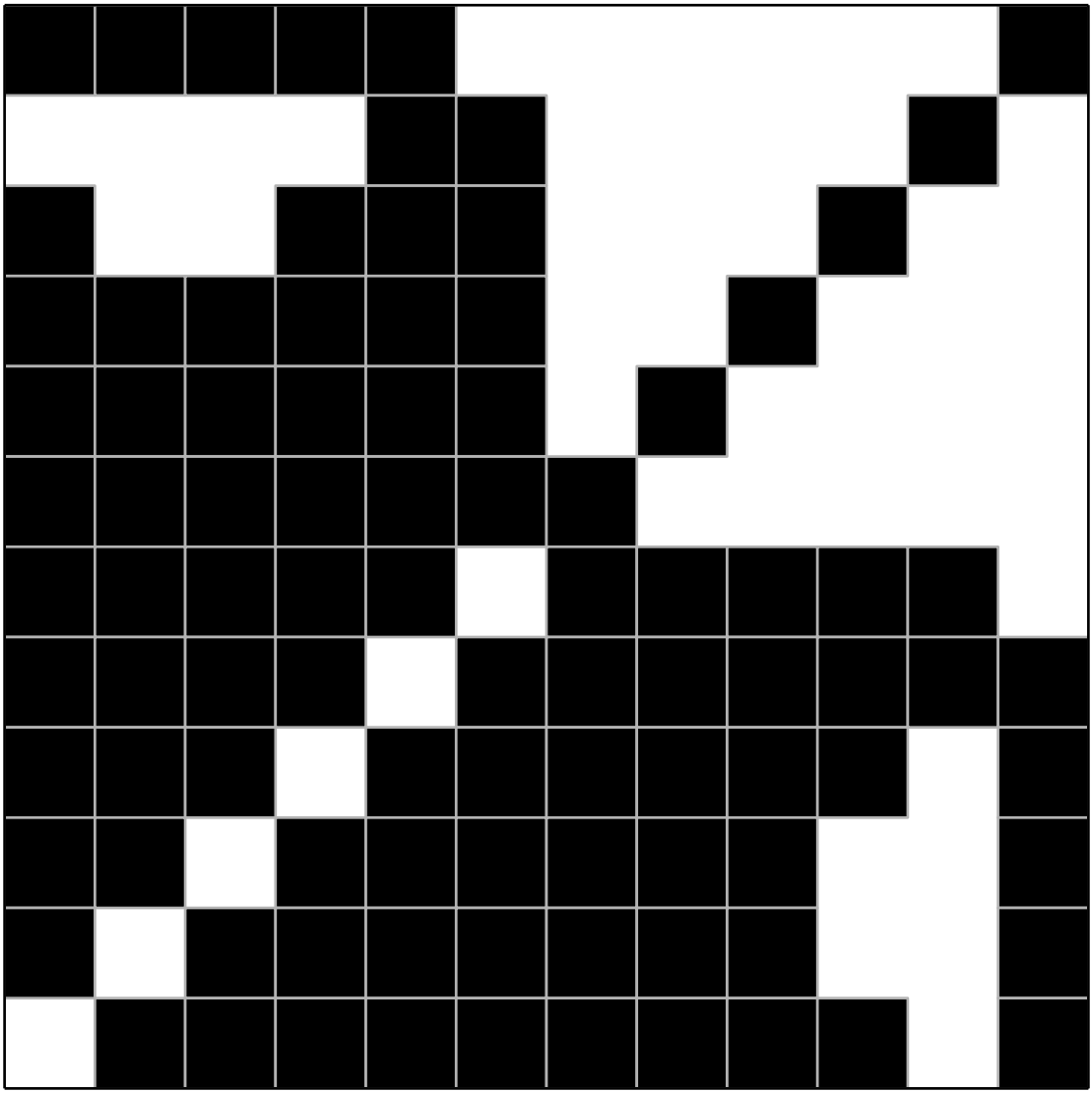
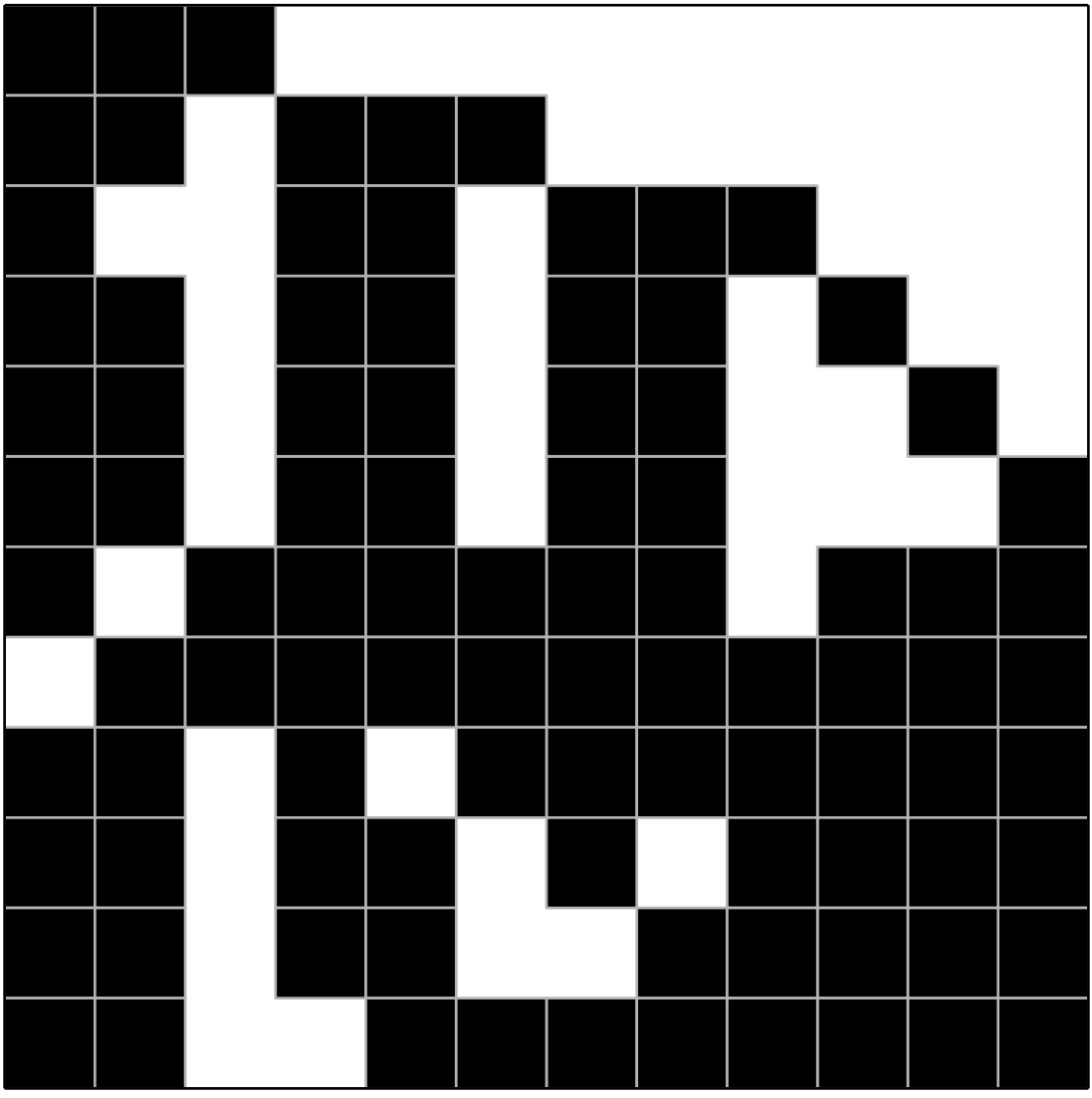
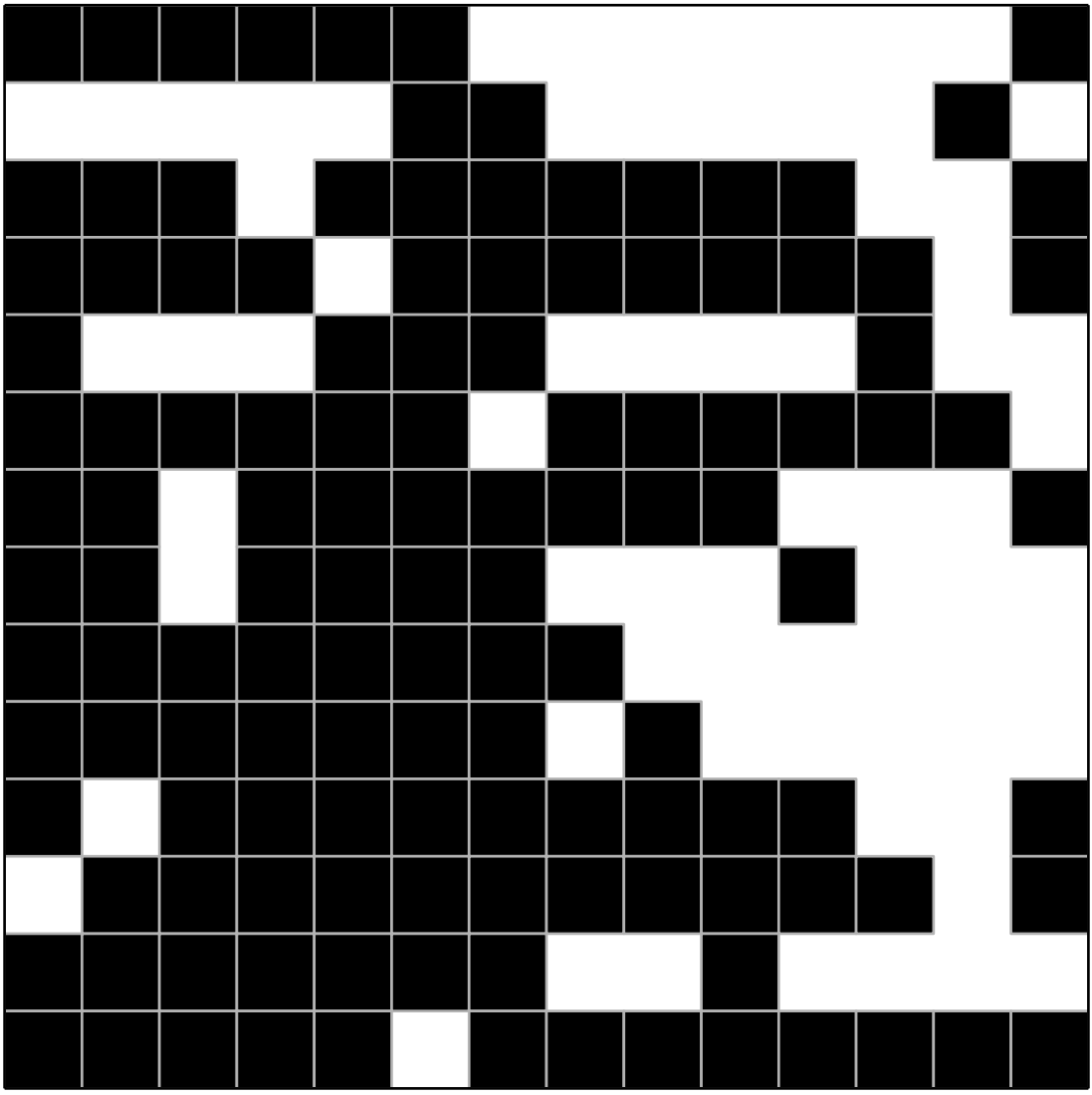
lib3_eco6-RE 12x12 (94) con: 6, var: 6



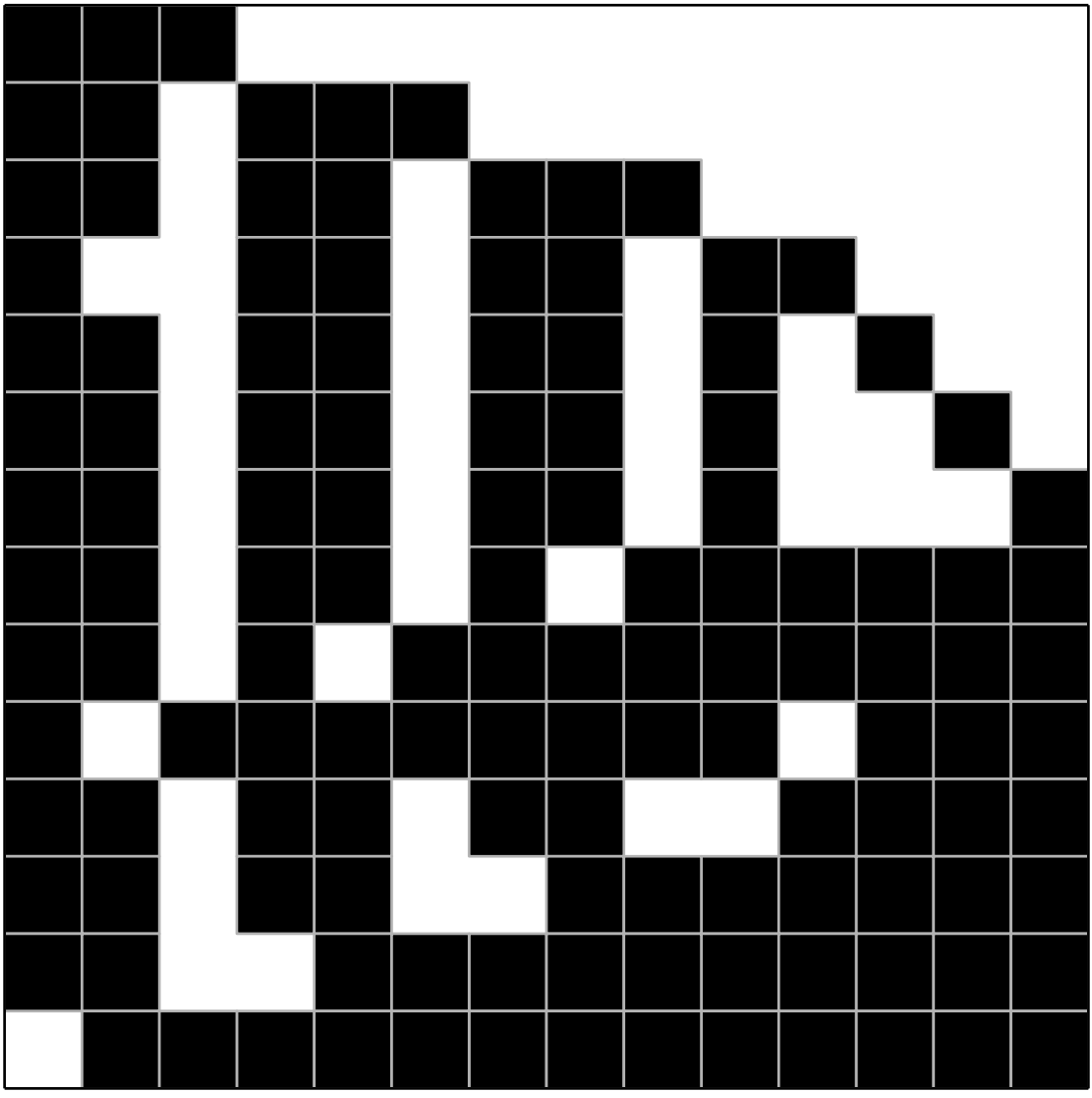
lib3_eco6-RE, cost: 6, diff: 6, explored: 4, time: 0.00s

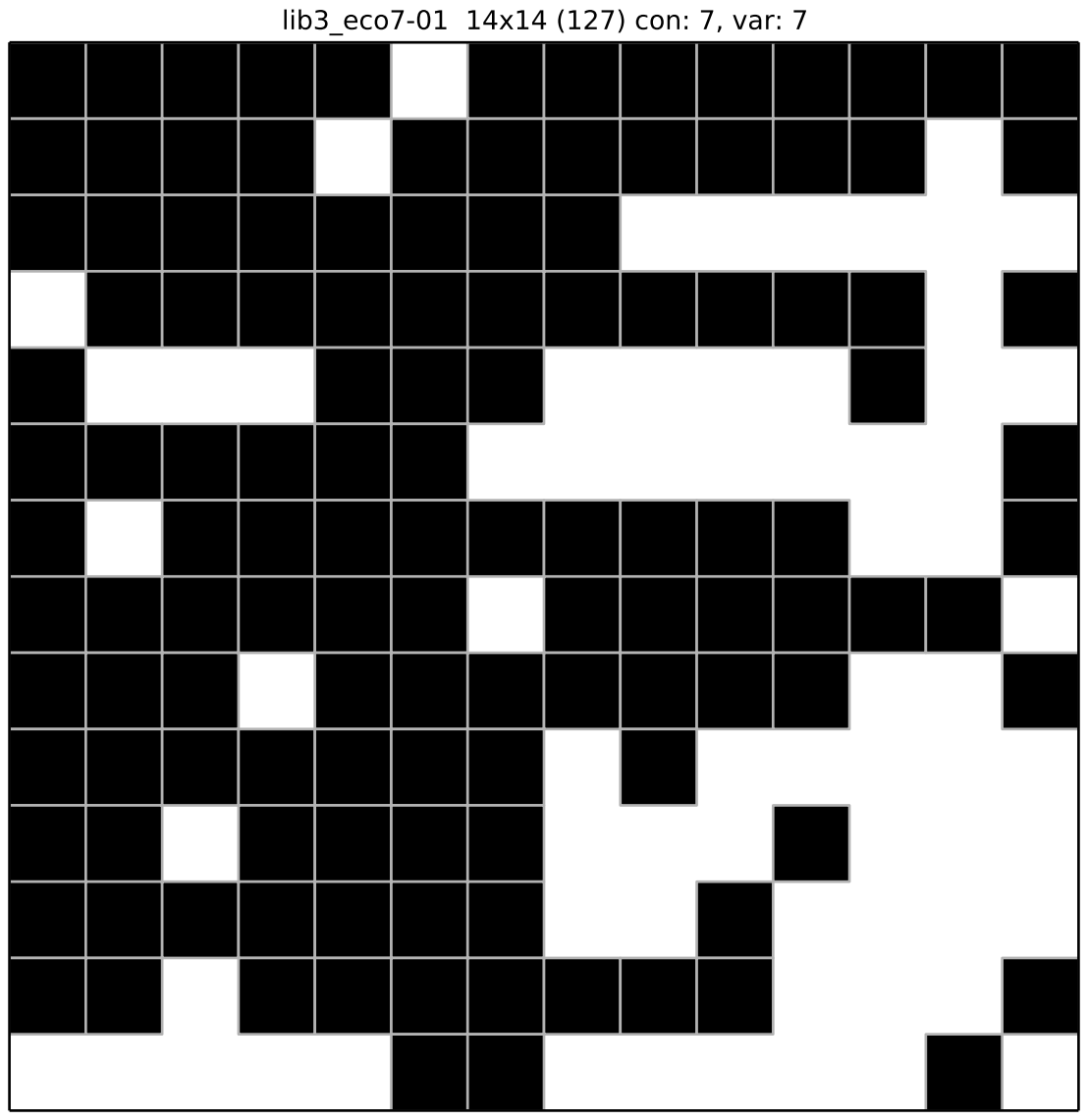


lib3_eco7-00 14x14 (127) con: 7, var: 7

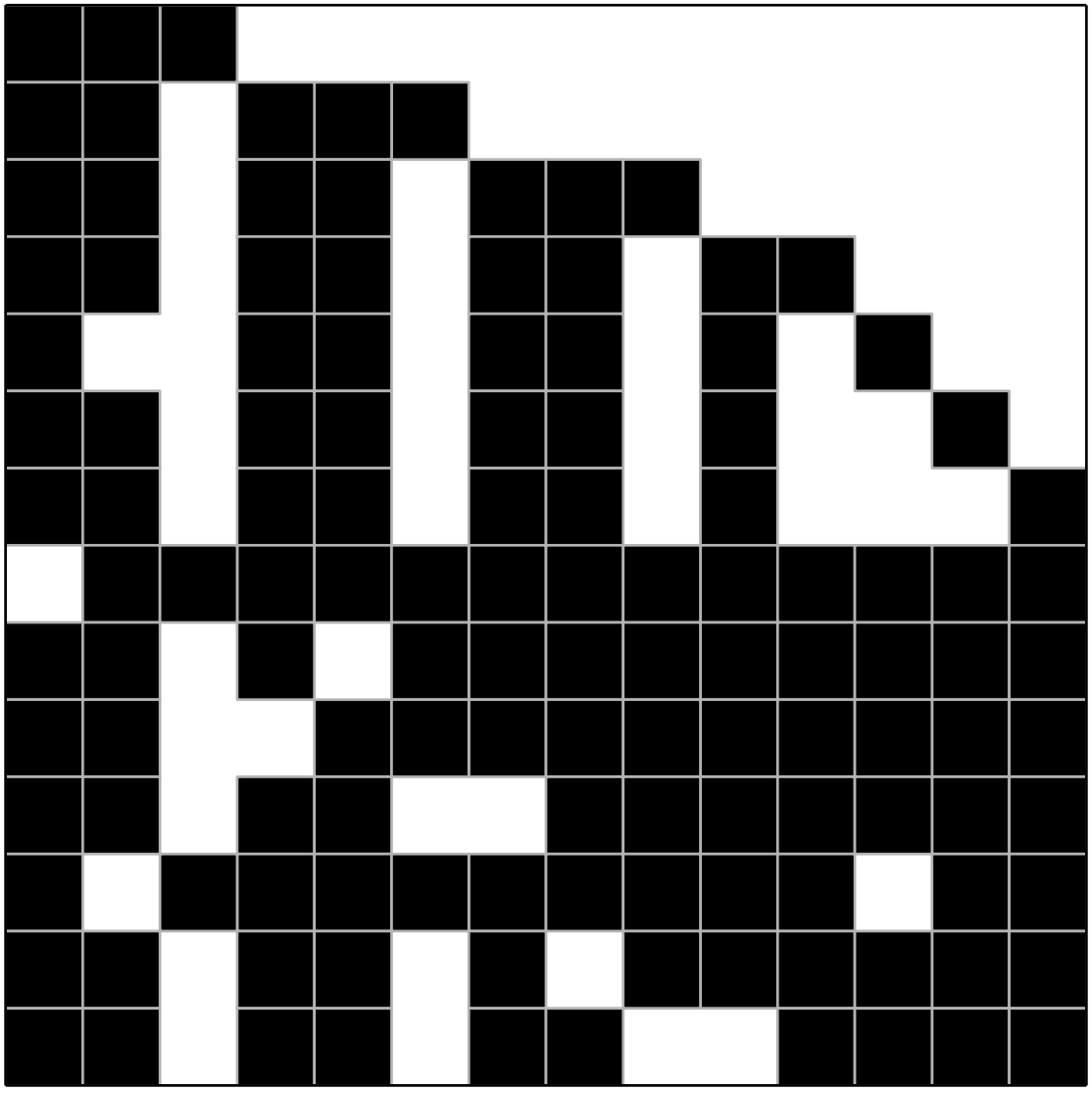


lib3_eco7-00, cost: 7, diff: 7, explored: 5, time: 0.00s

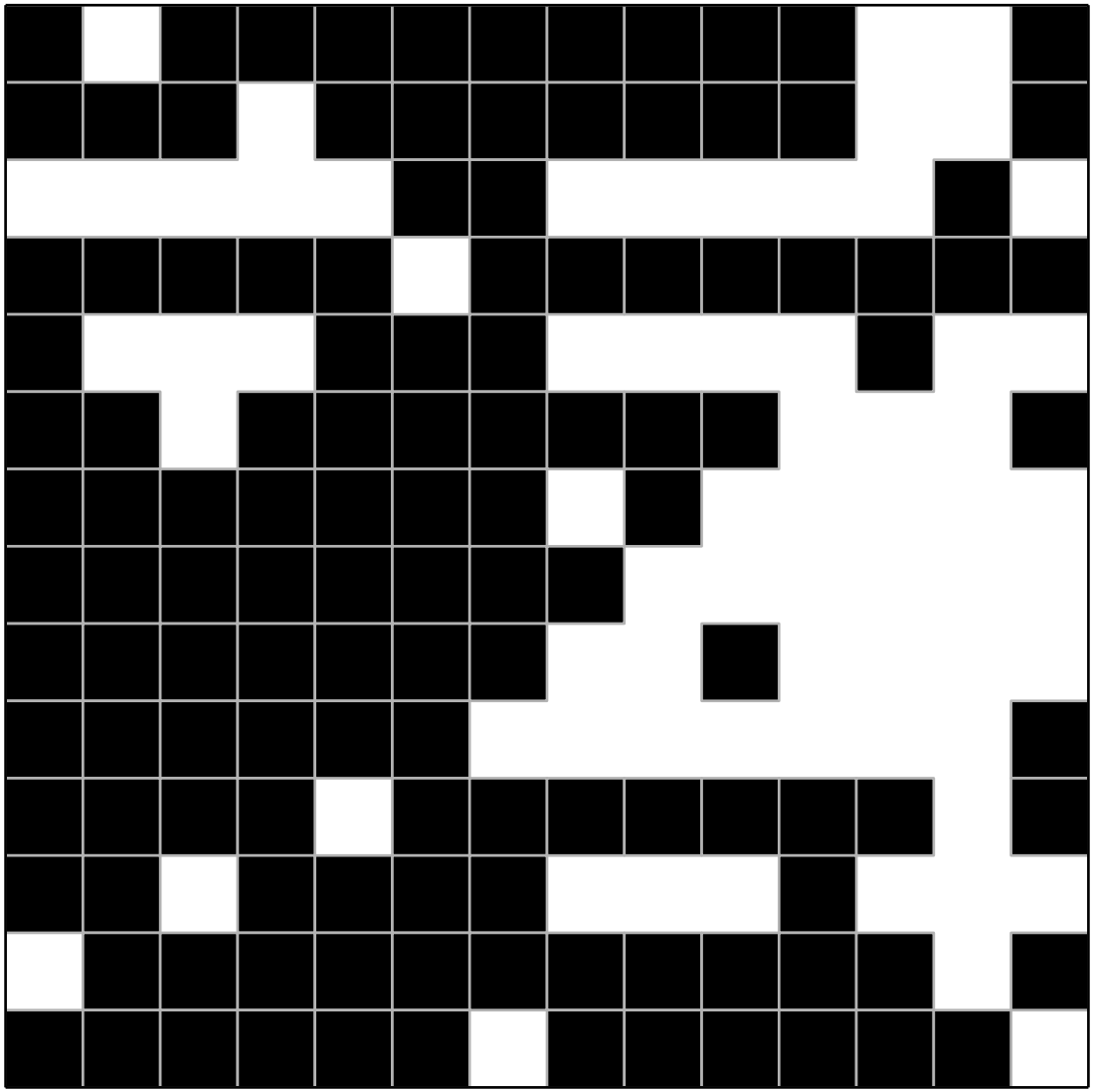



lib3_eco7-01 14x14 (127) con: 7, var: 7

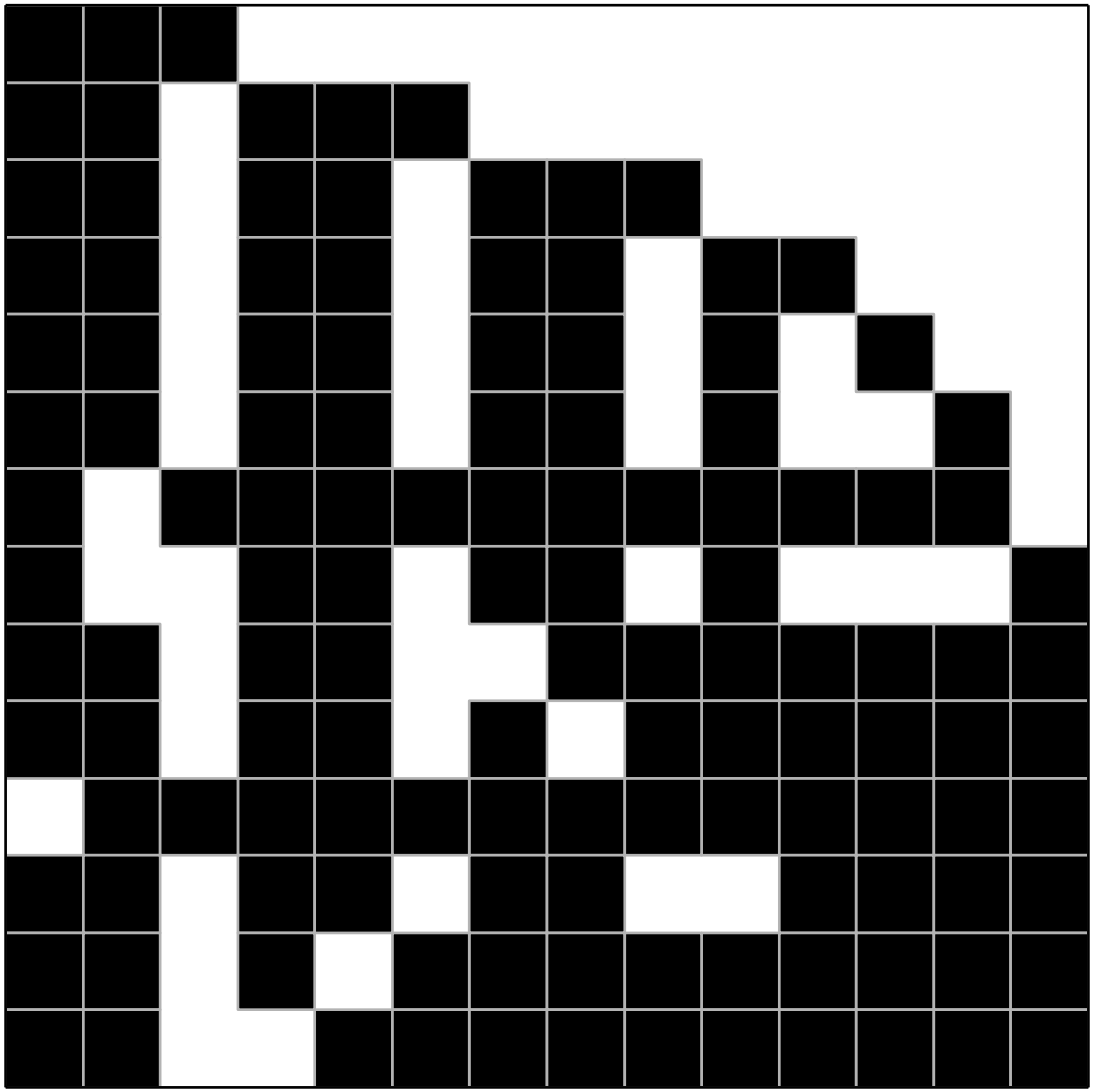
lib3_eco7-01, cost: 7, diff: 7, explored: 5, time: 0.00s



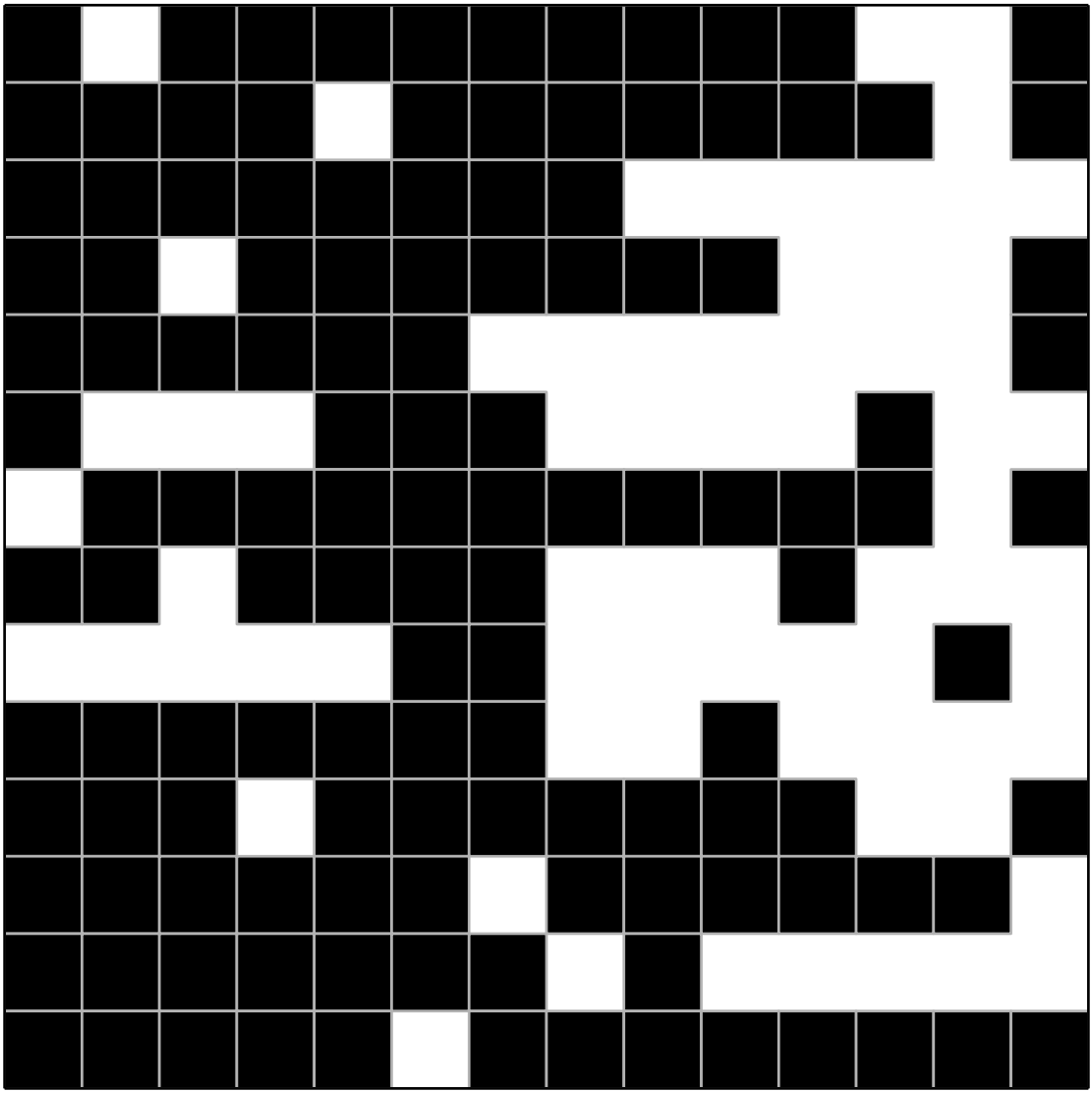
lib3_eco7-02 14x14 (127) con: 7, var: 7

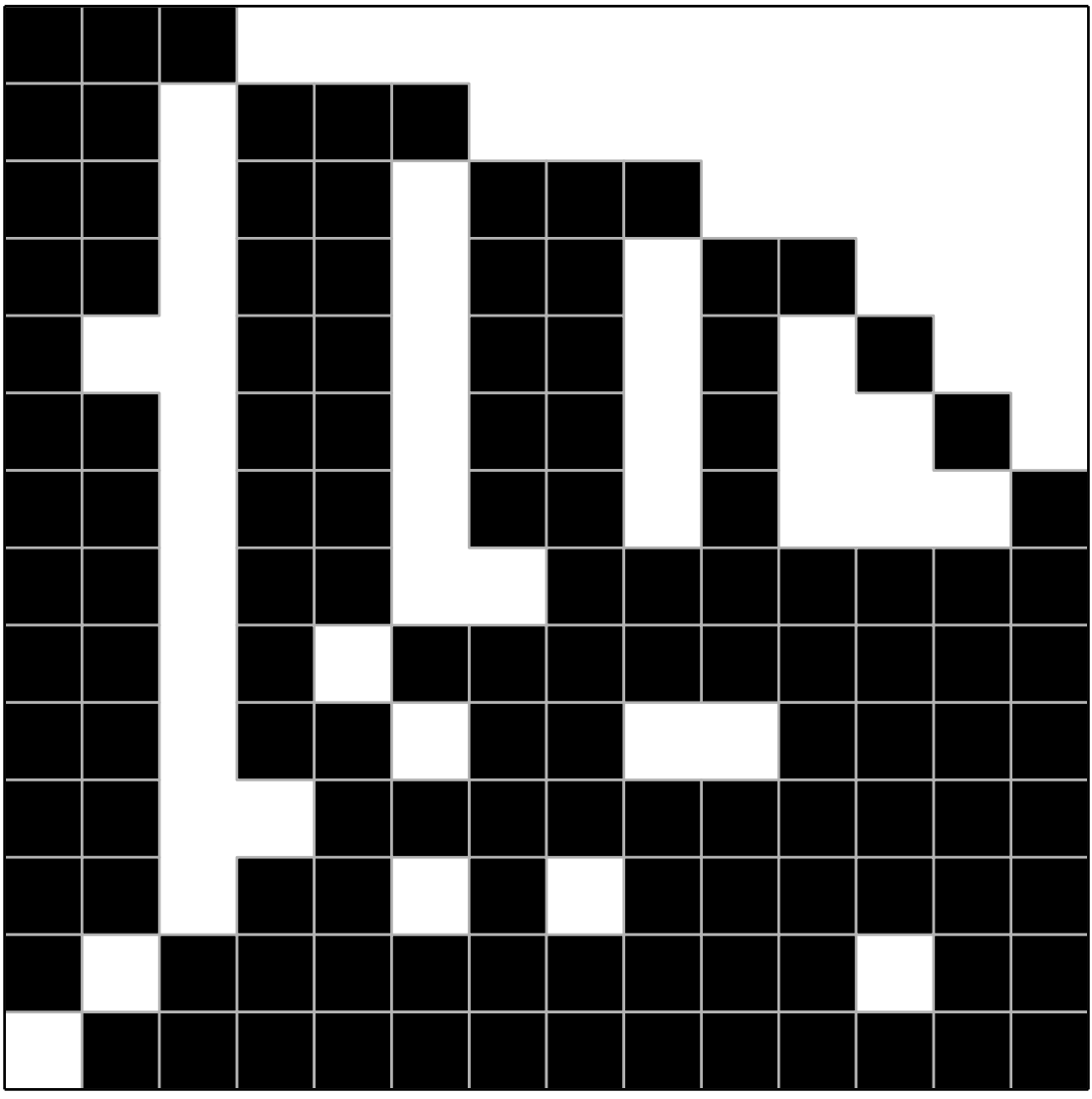


lib3_eco7-02, cost: 7, diff: 7, explored: 5, time: 0.00s



lib3_eco7-03 14x14 (127) con: 7, var: 7

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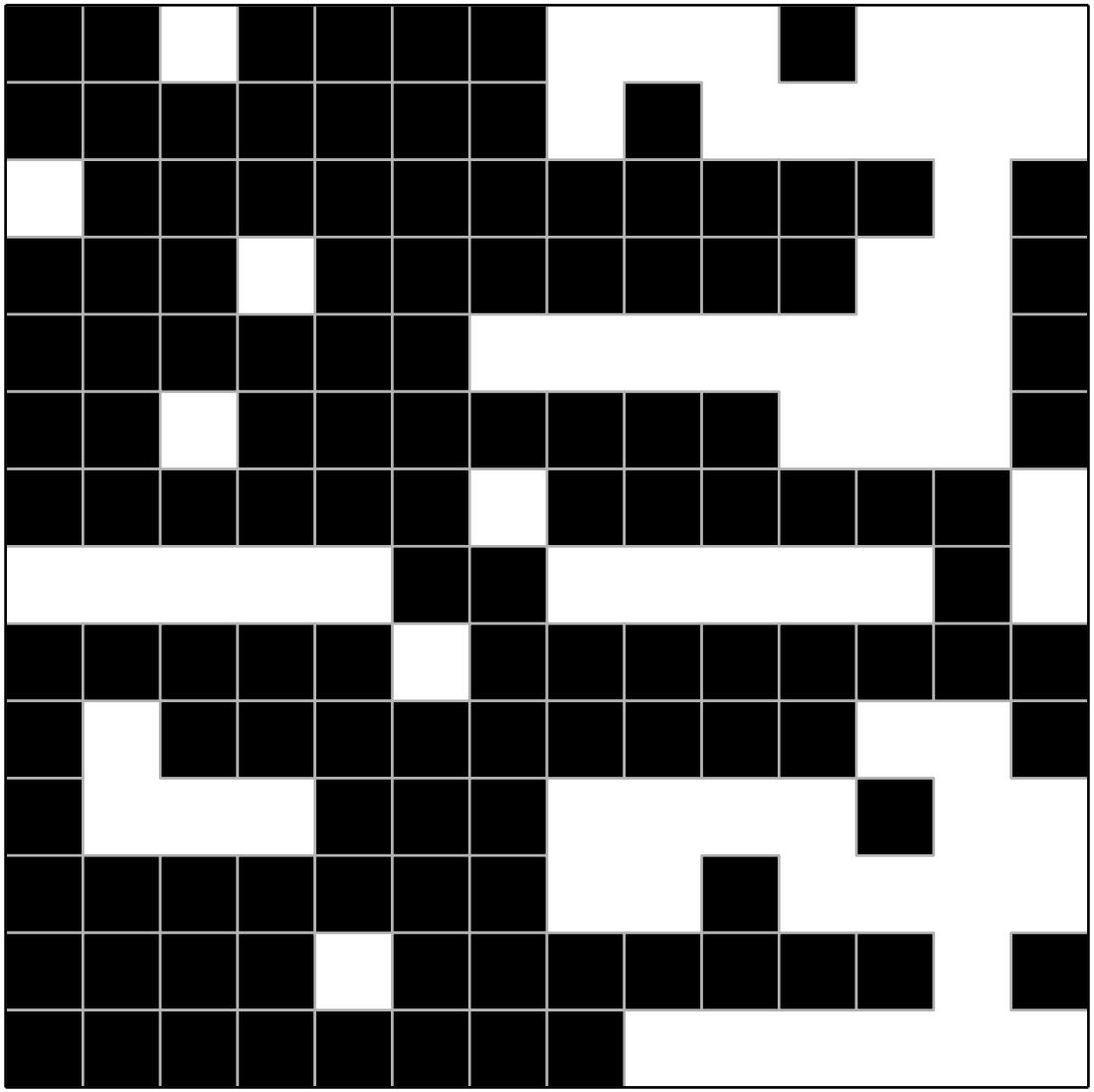
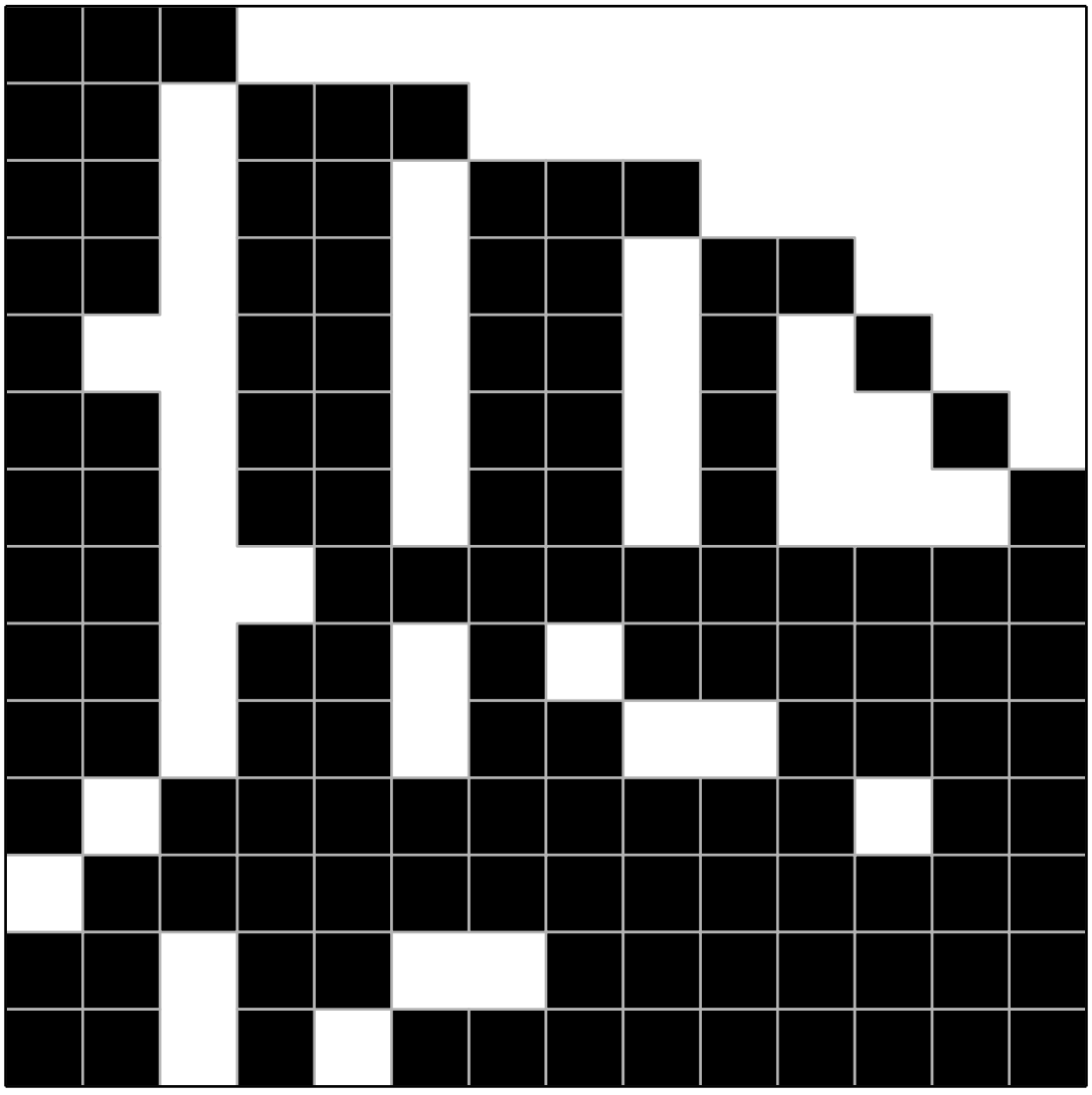
lib3_eco7-04 14x14 (127) con: 7, var: 7

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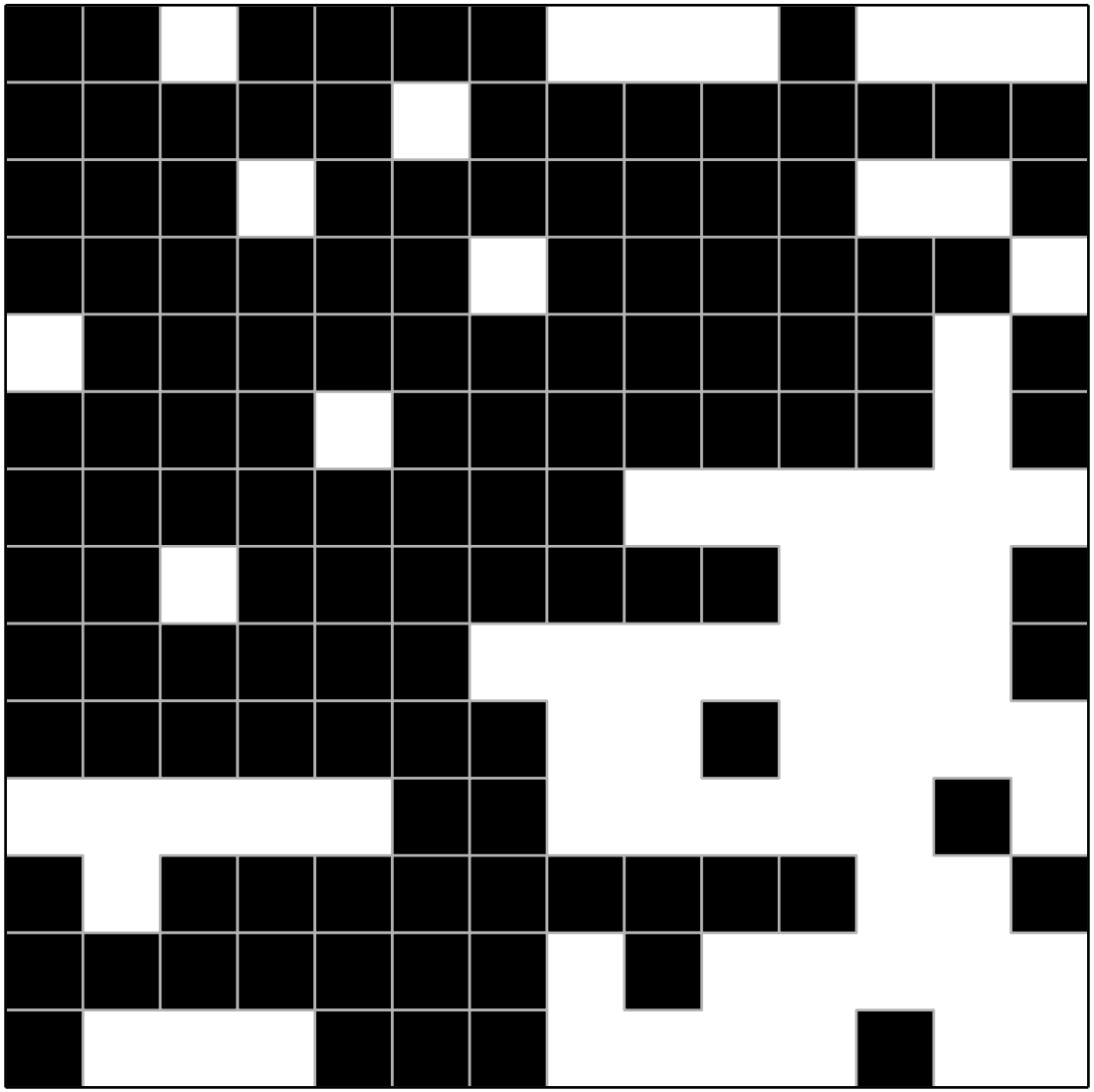
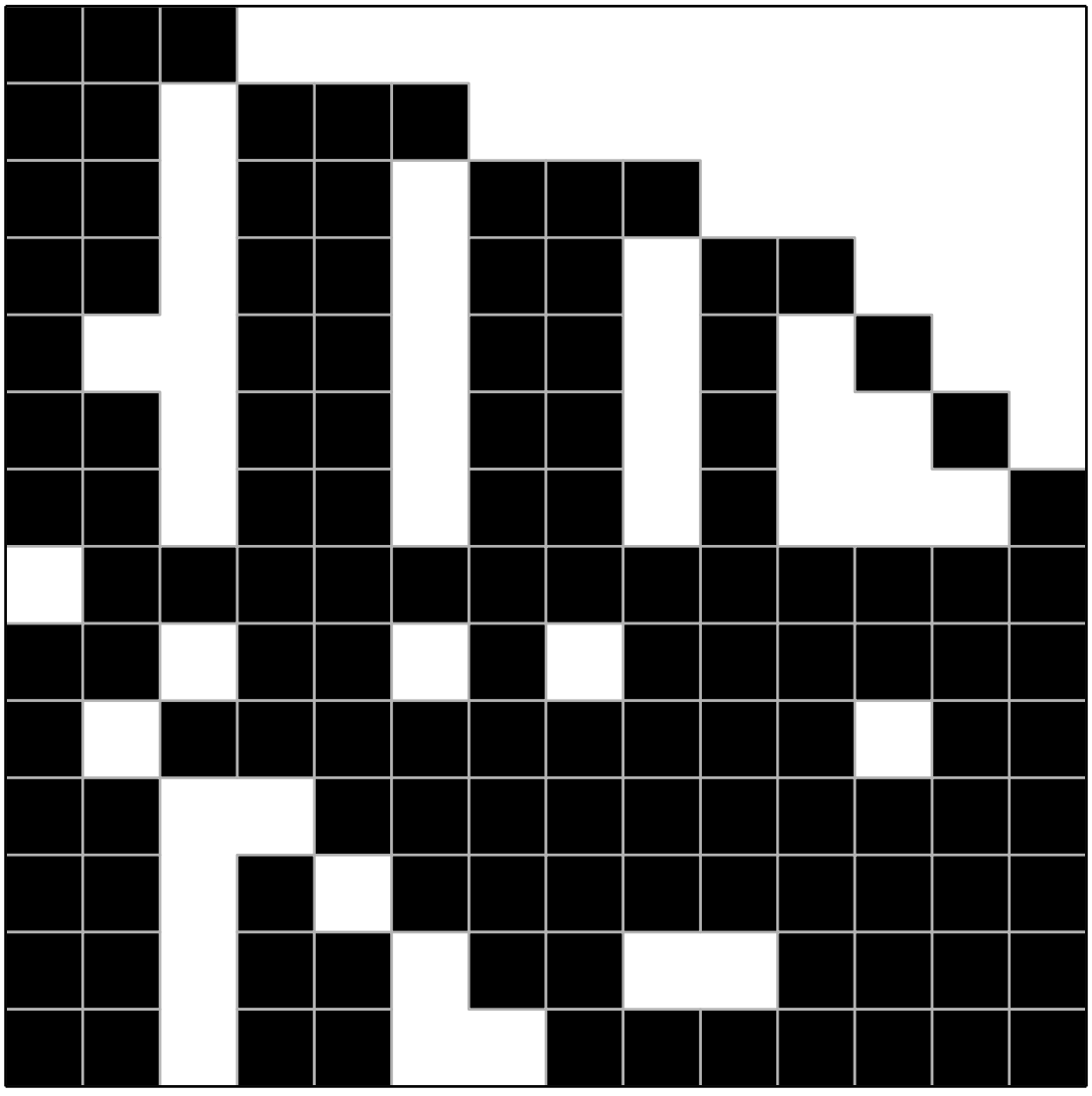
lib3_eco7-05 14x14 (127) con: 7, var: 7

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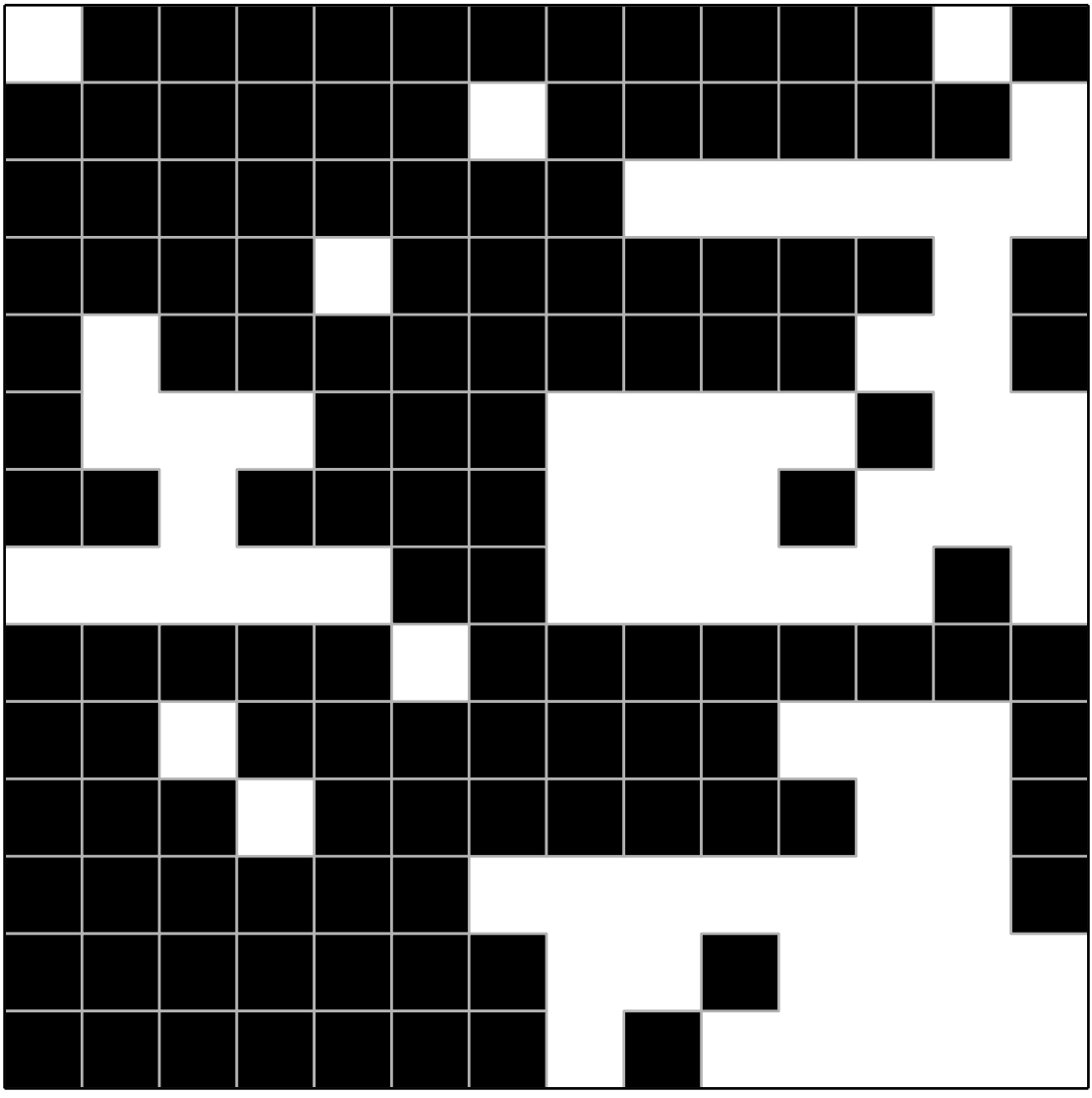
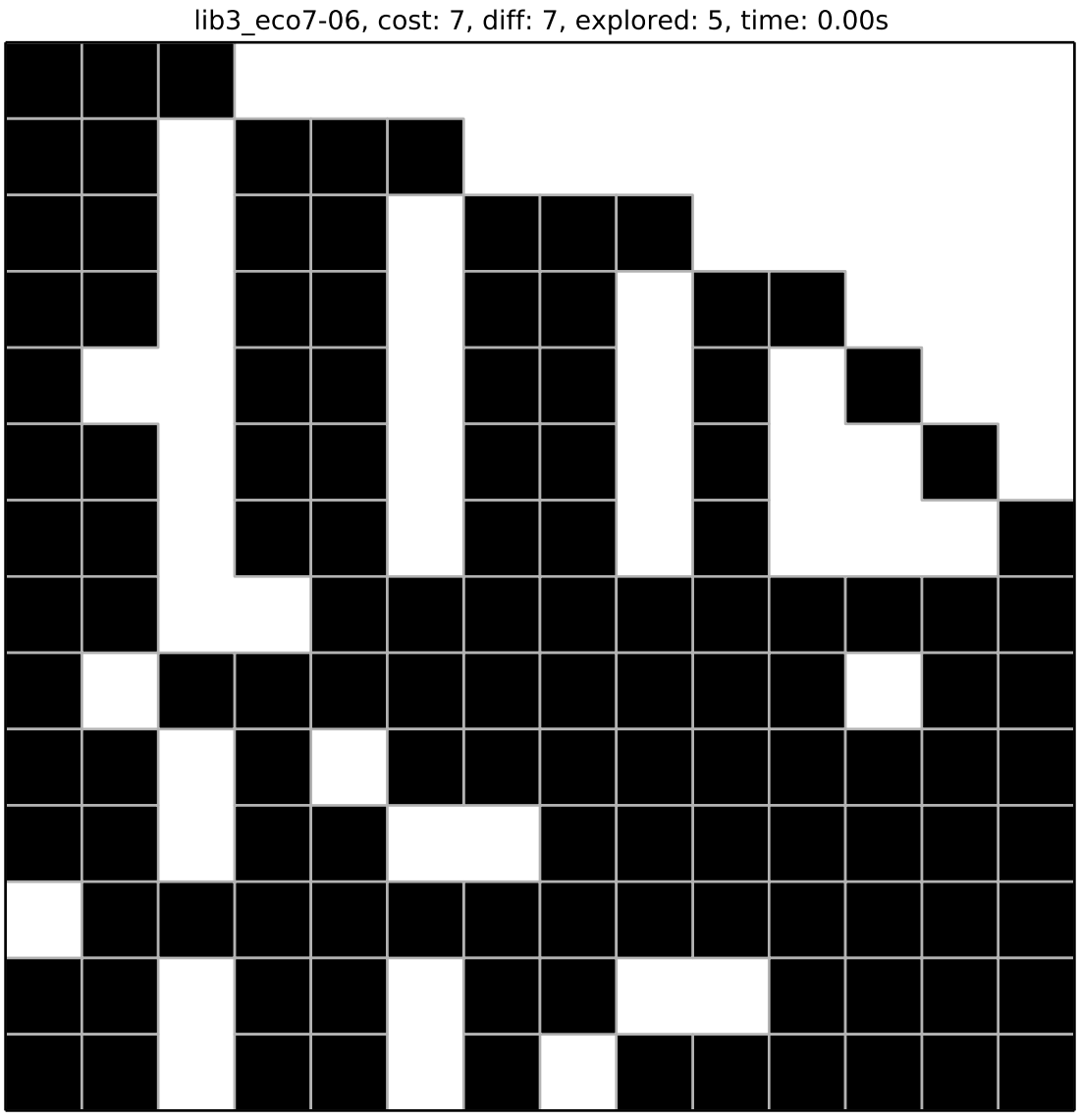
lib3_eco7-06 14x14 (127) con: 7, var: 7

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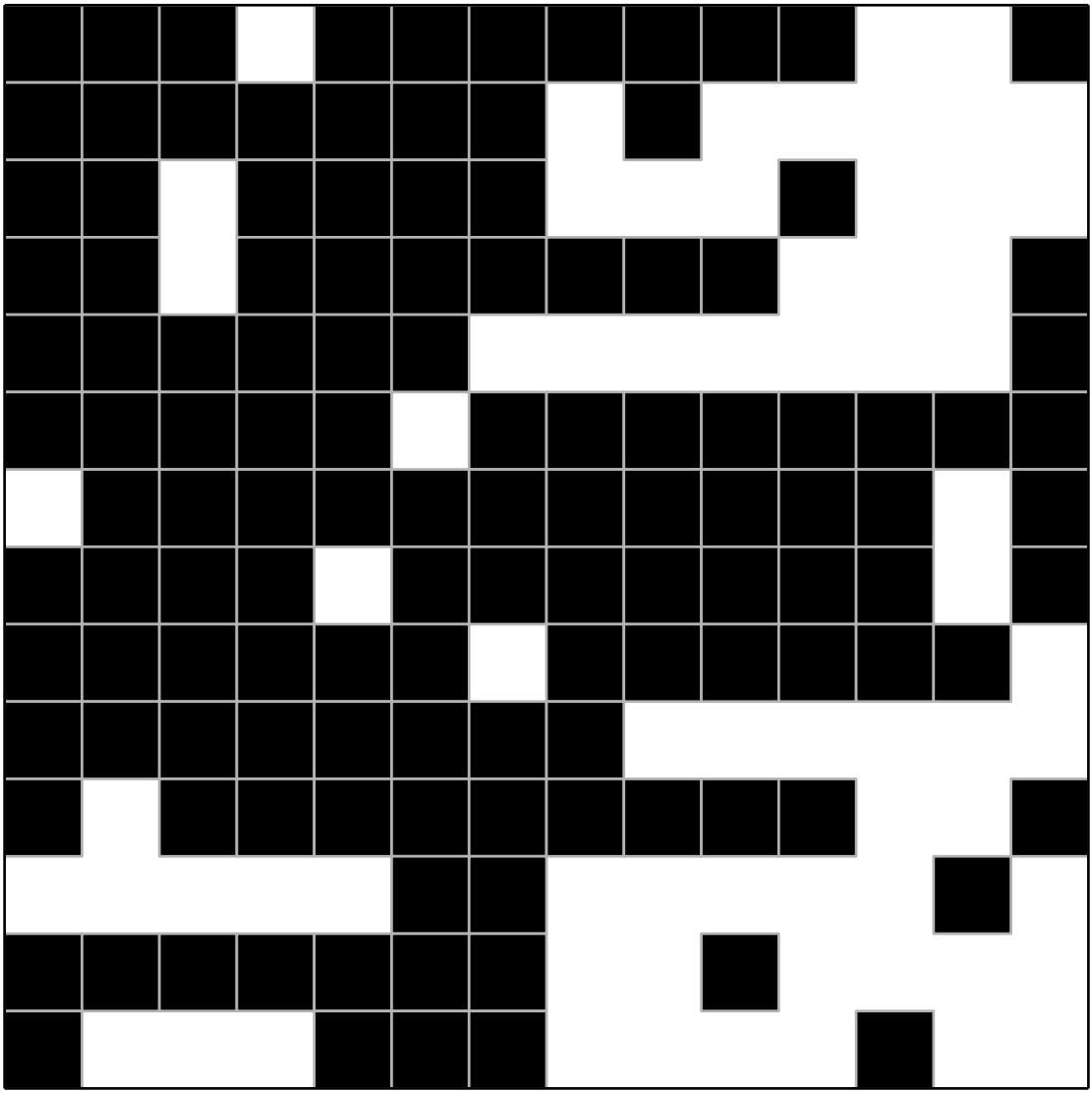

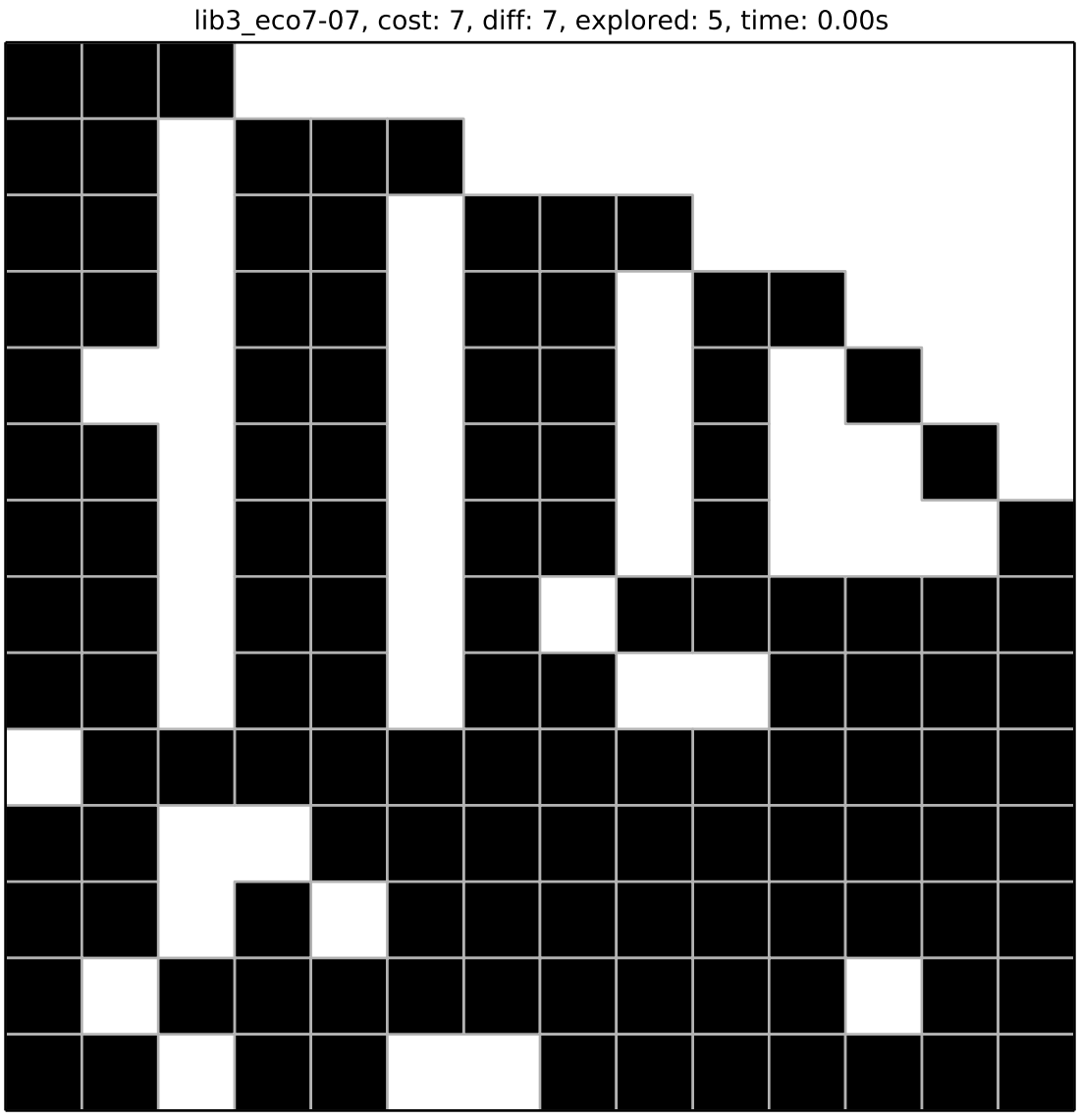
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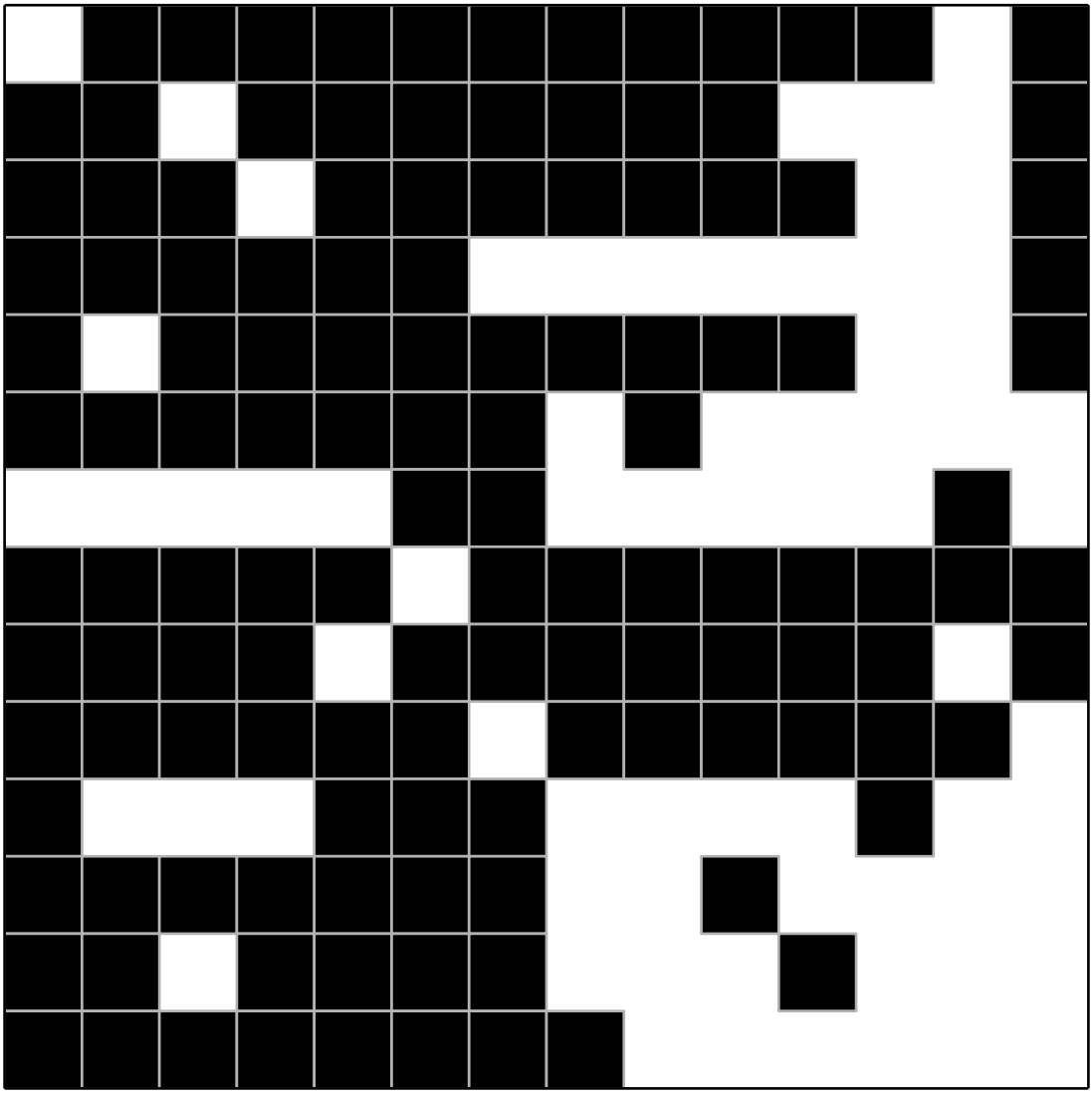
lib3_eco7-08 14x14 (127) con: 7, var: 7



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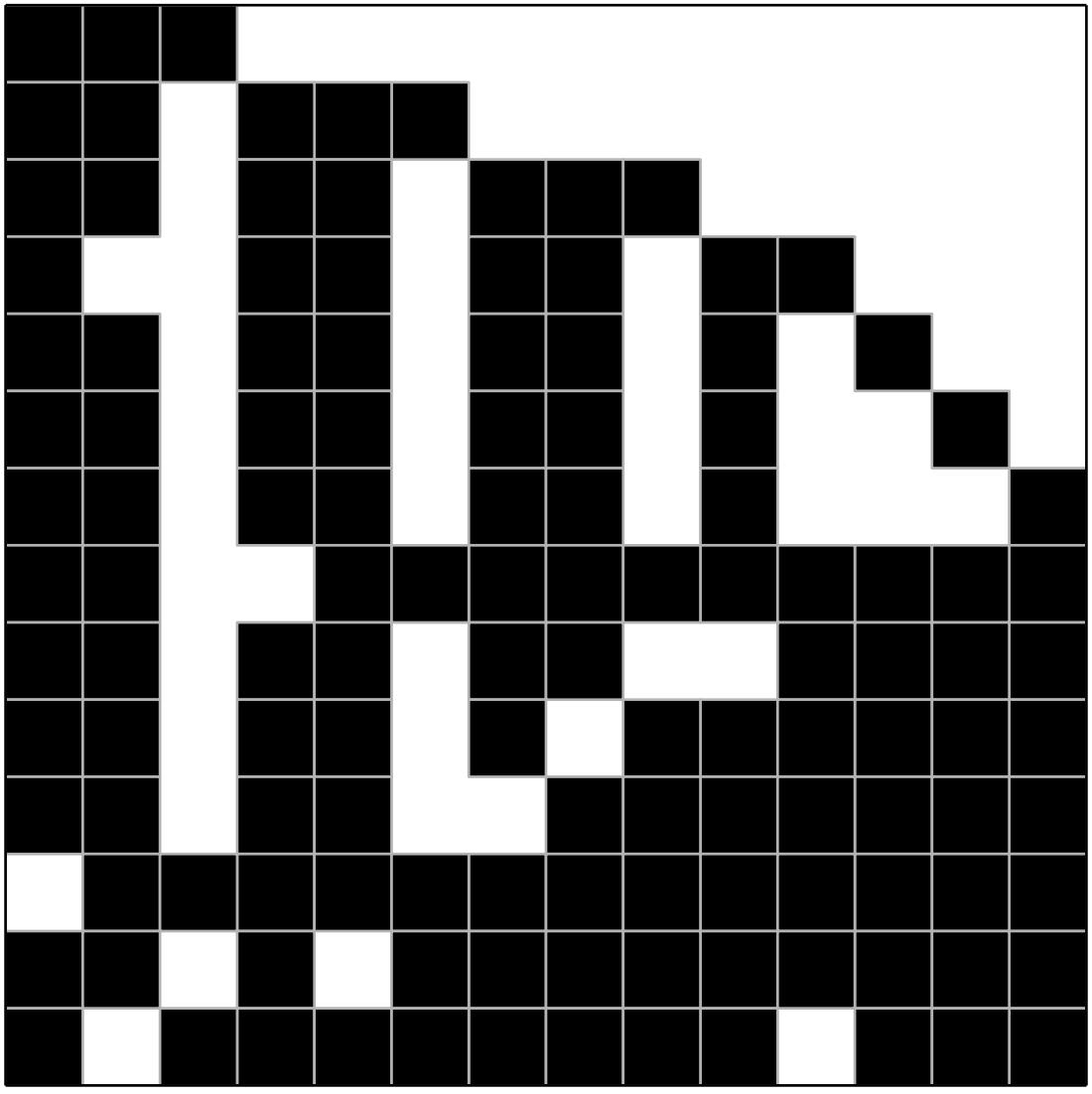
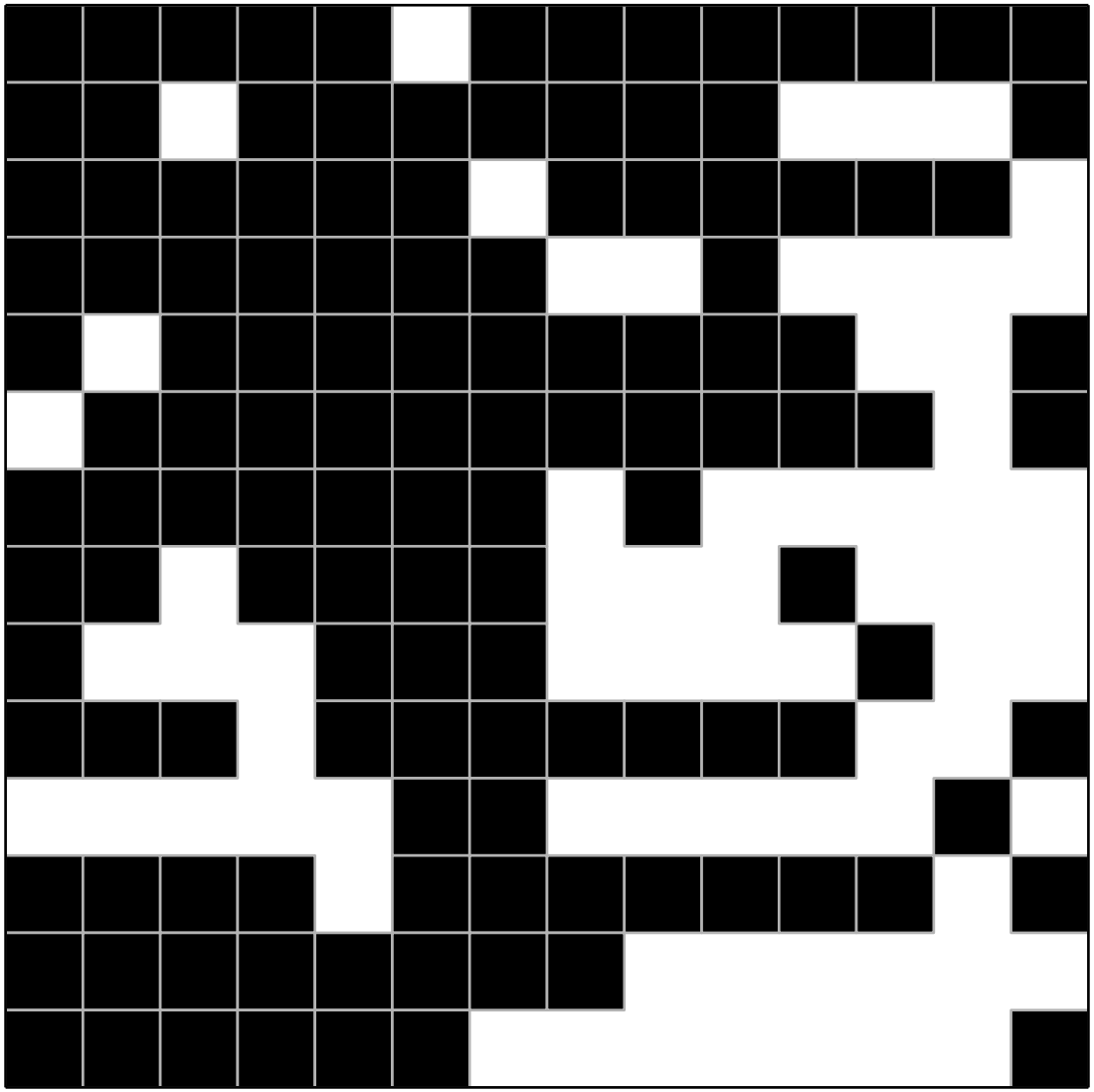


lib3_eco7-09 14x14 (127) con: 7, var: 7



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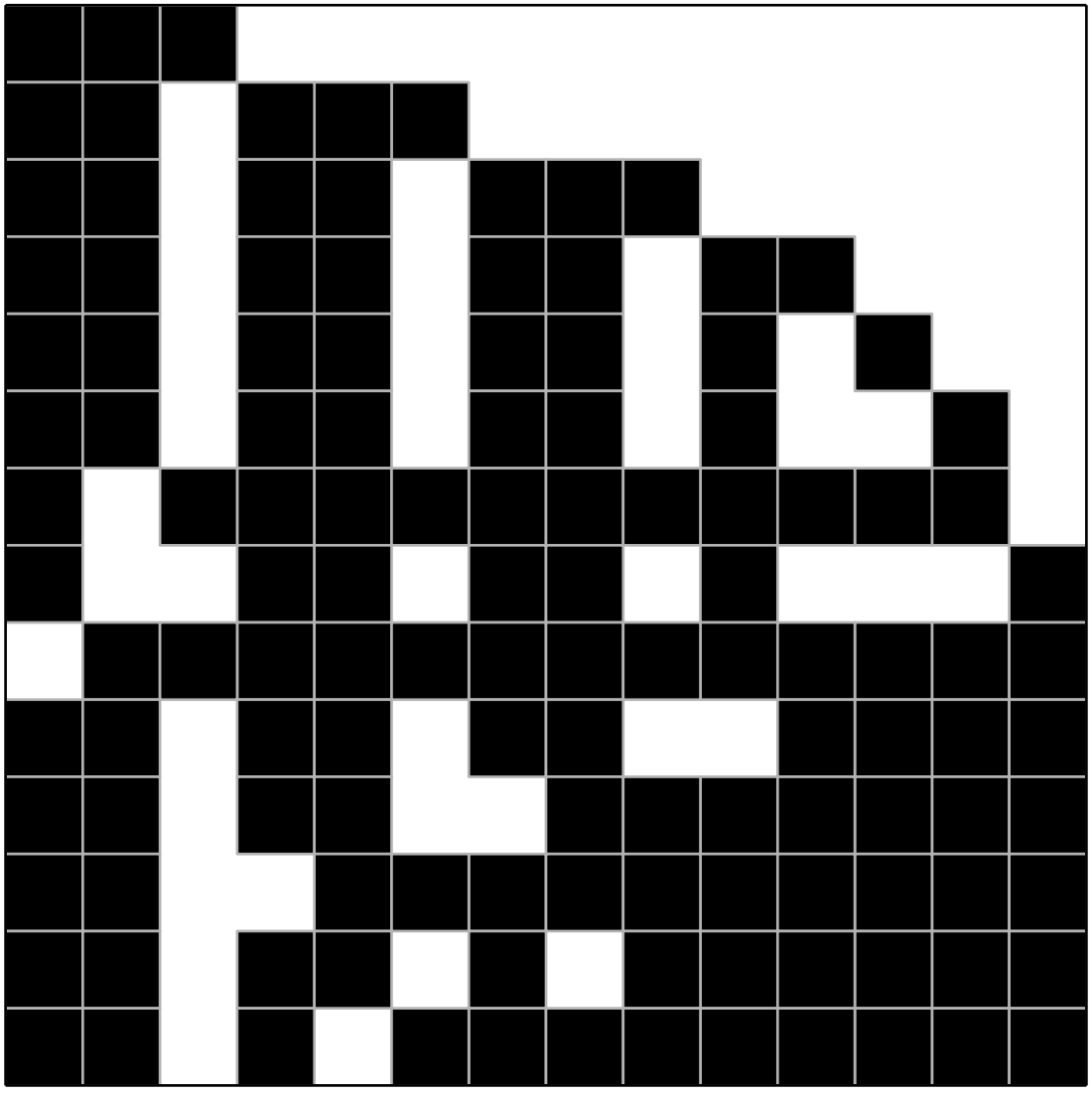

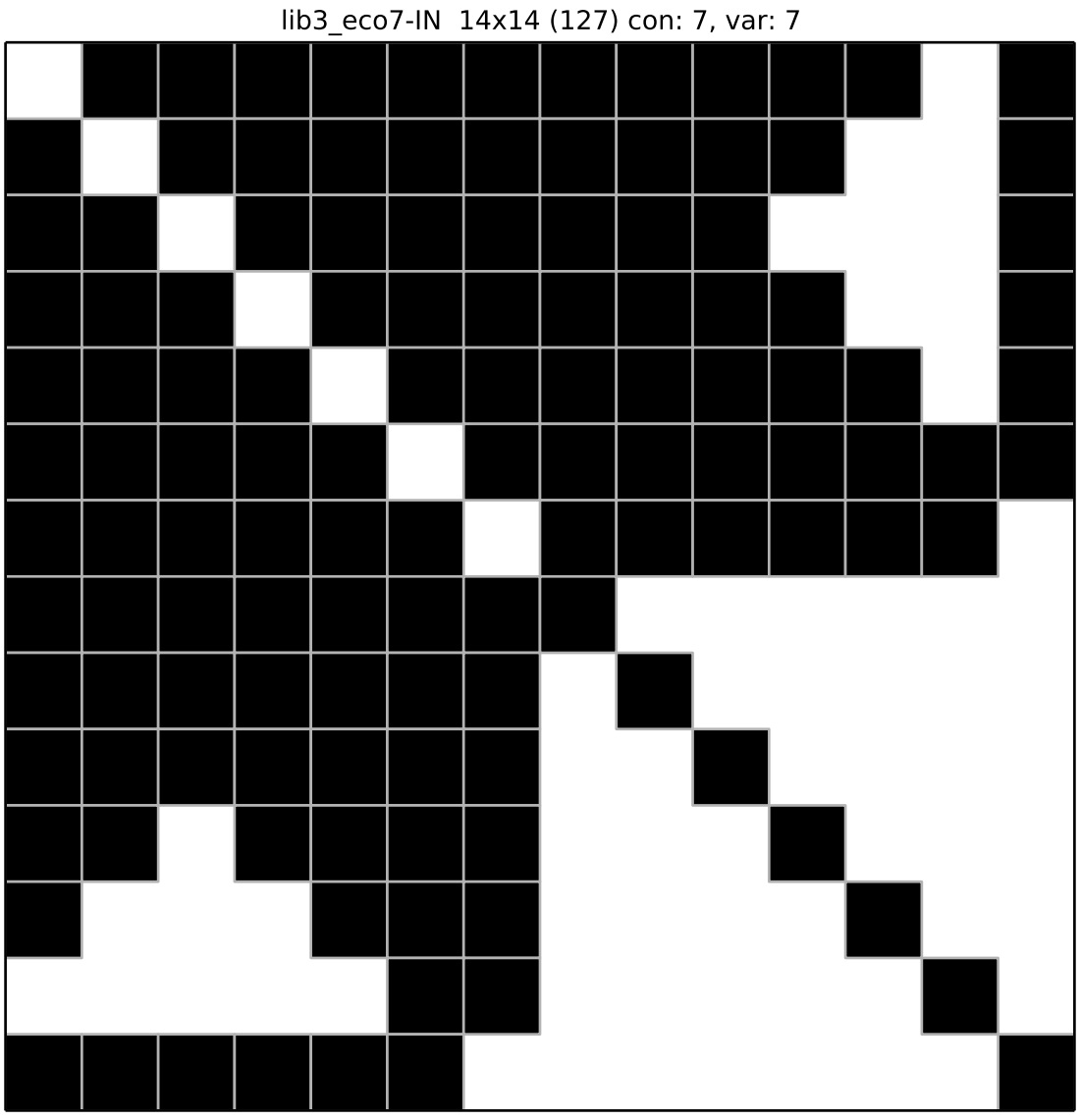
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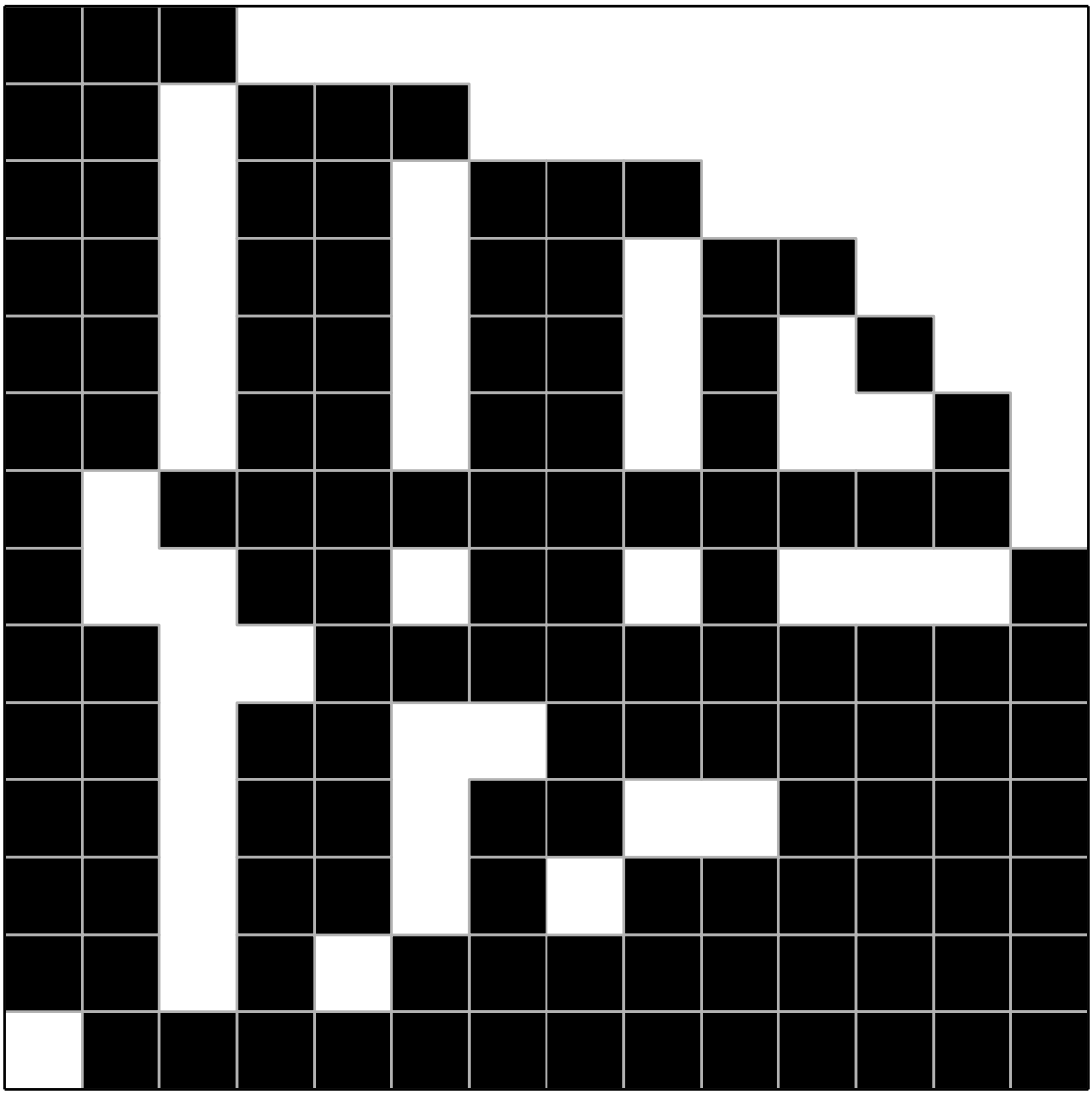
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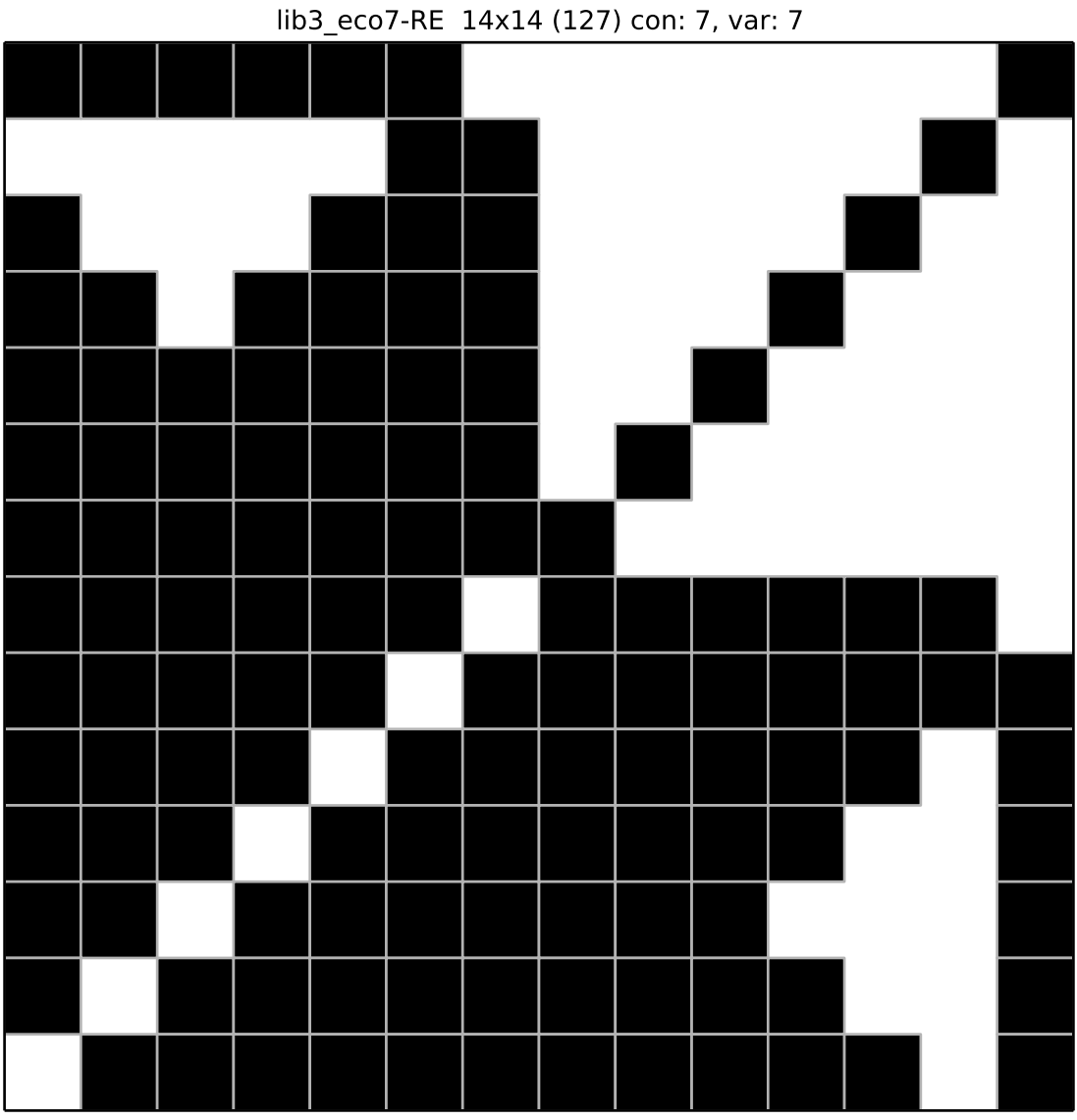
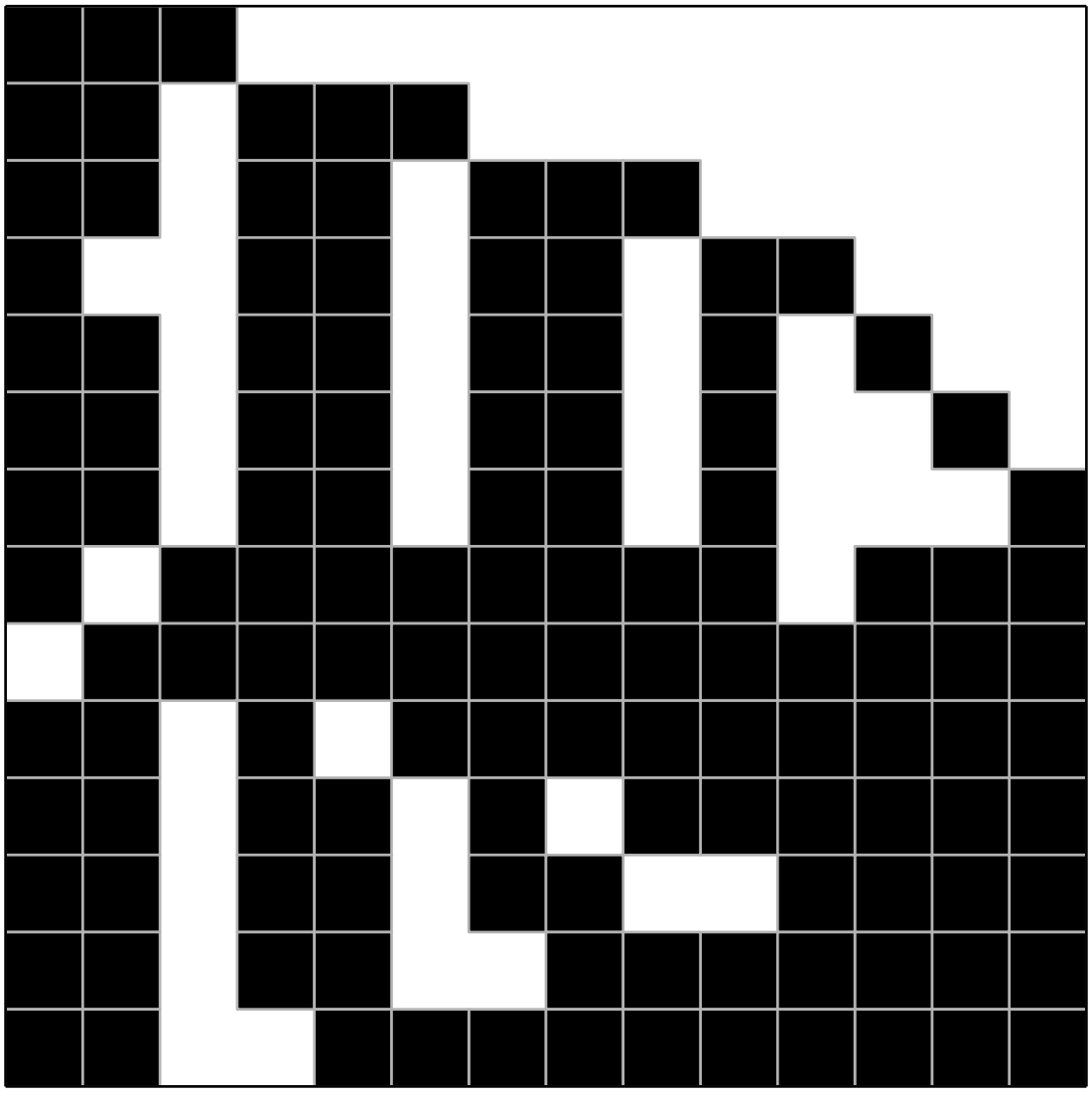

lib3_eco7-RE 14x14 (127) con: 7, var: 7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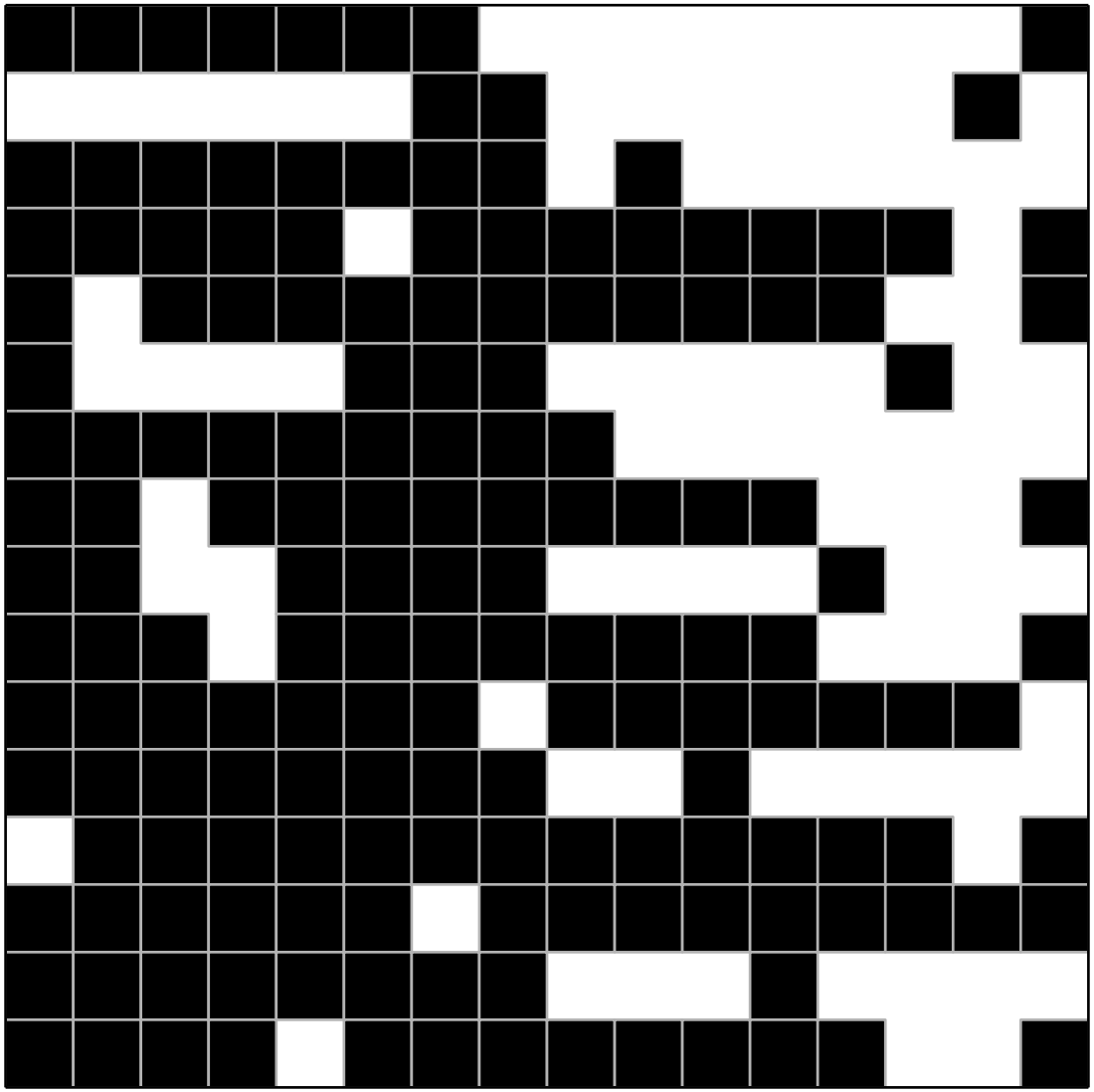
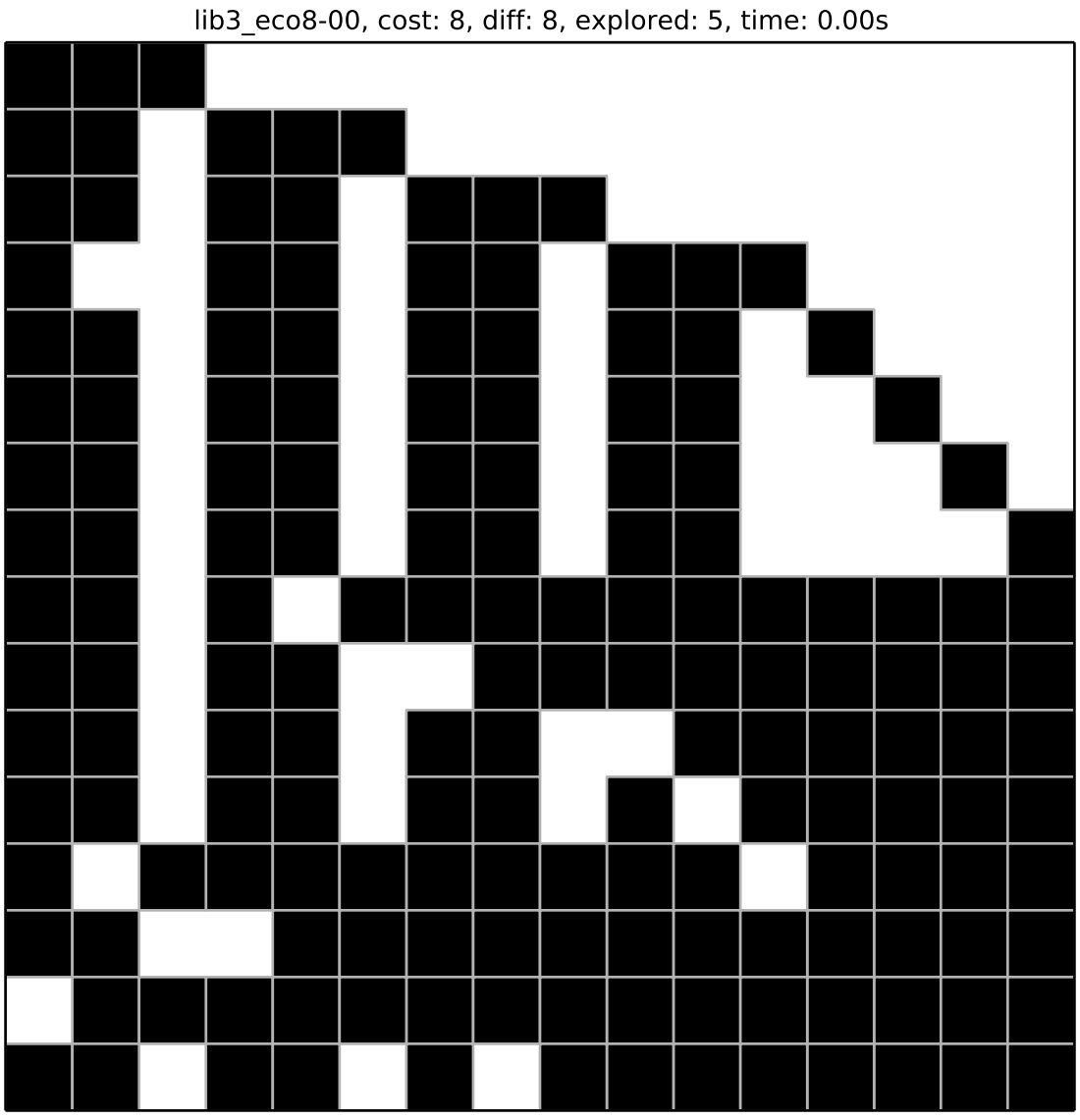
lib3_eco8-00 16x16 (166) con: 8, var: 8

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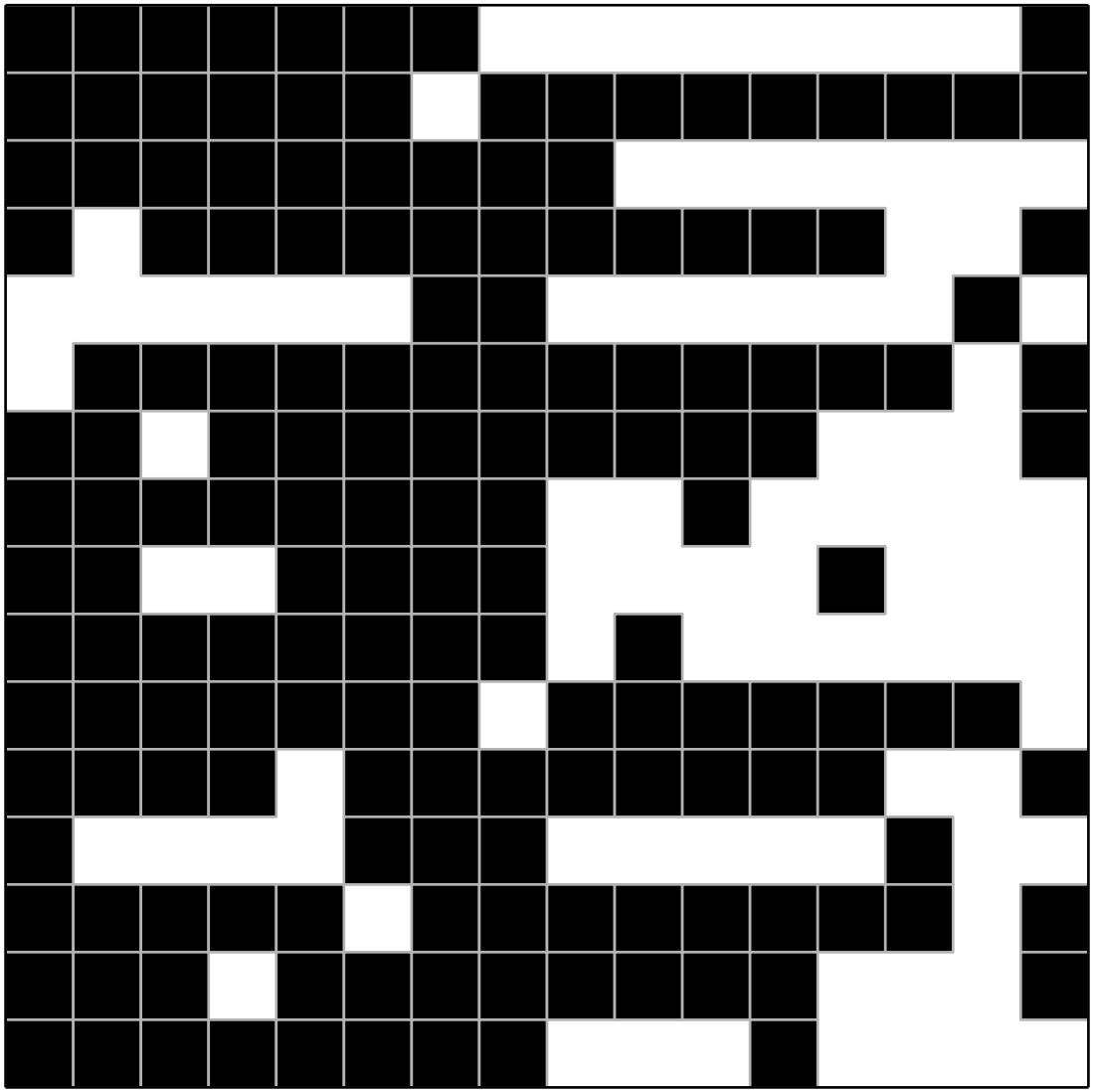
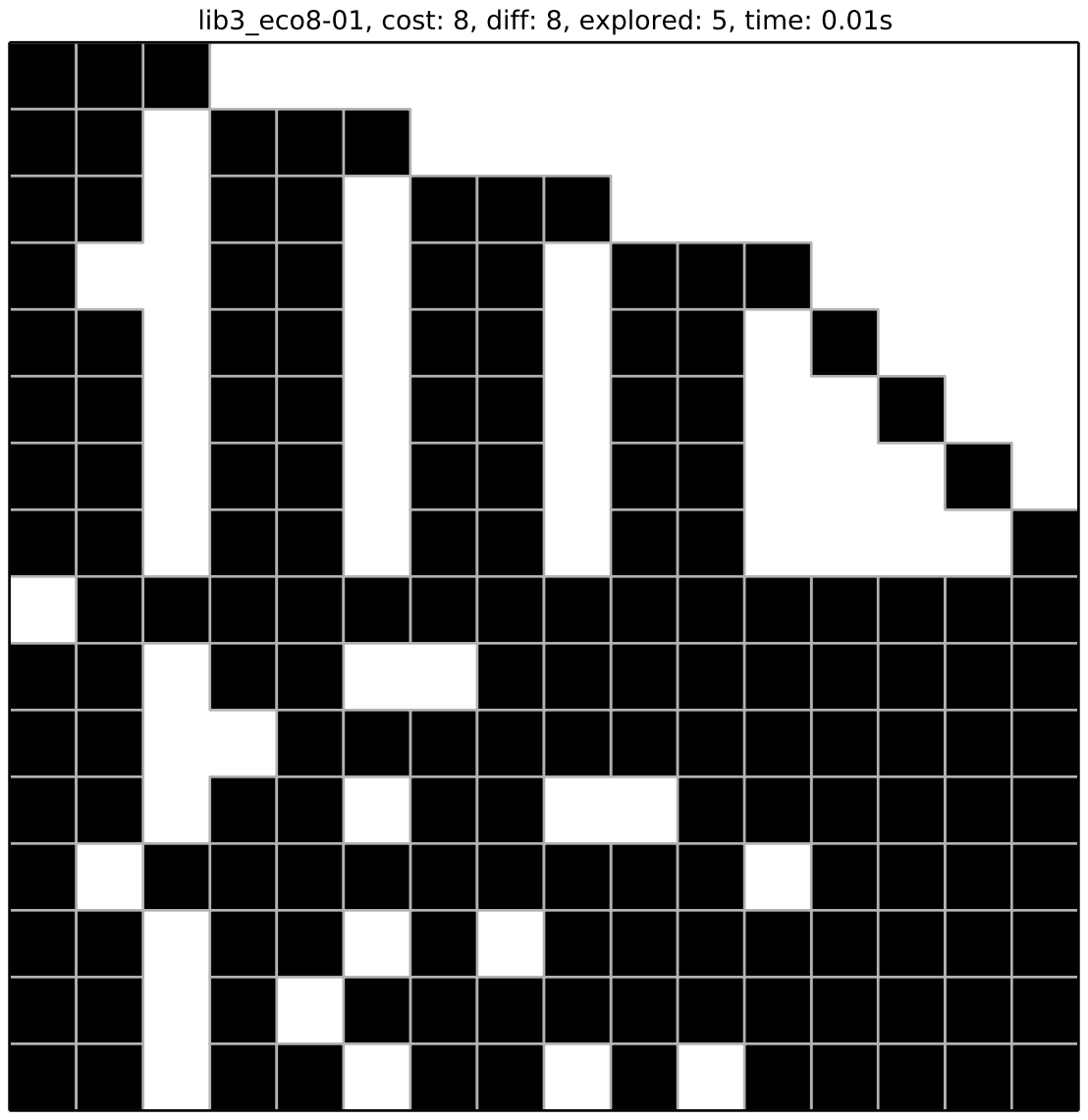
lib3_eco8-01 16x16 (166) con: 8, var: 8

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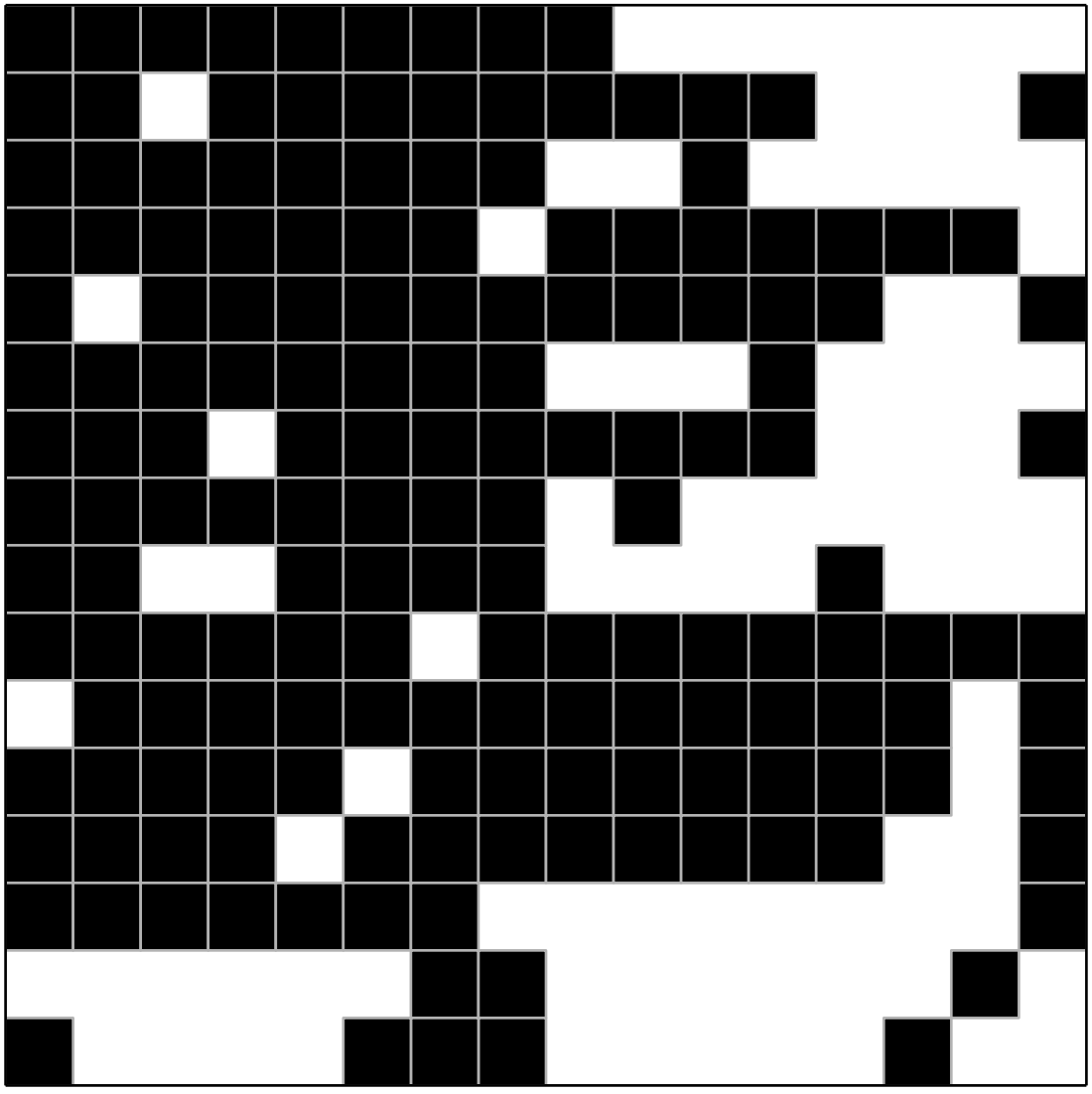
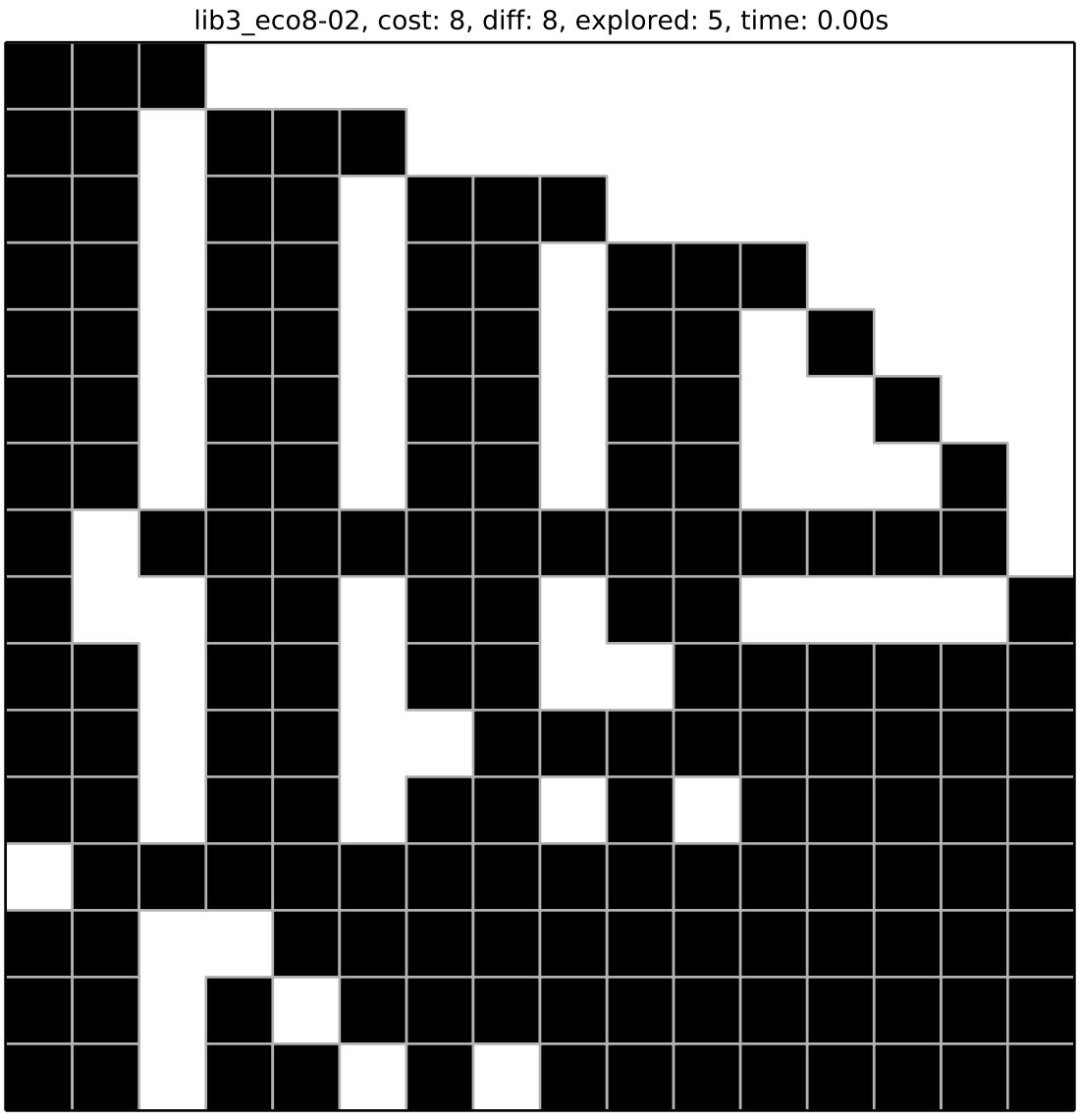
lib3_eco8-02 16x16 (166) con: 8, var: 8

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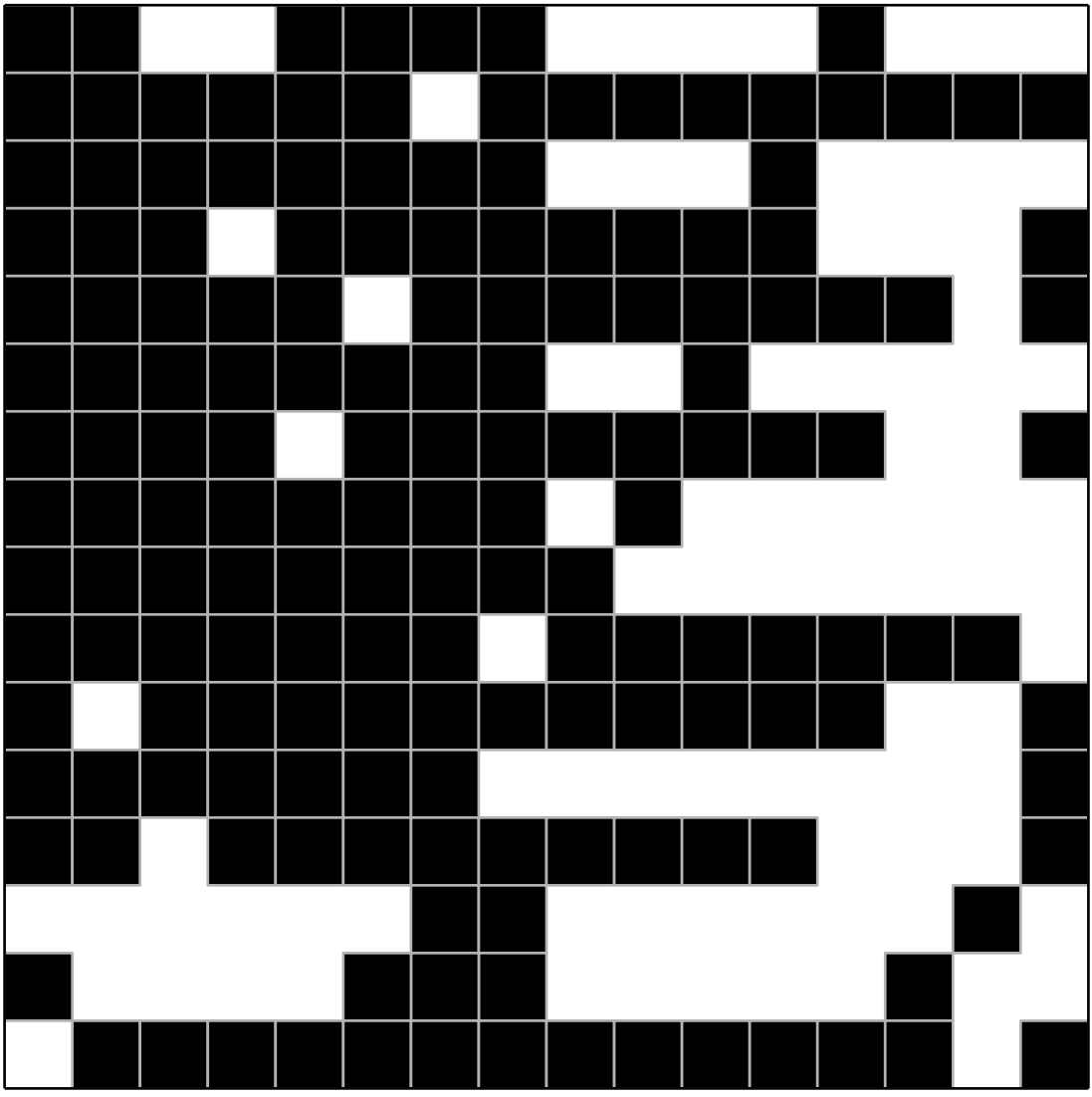
lib3_eco8-03 16x16 (166) con: 8, var: 8



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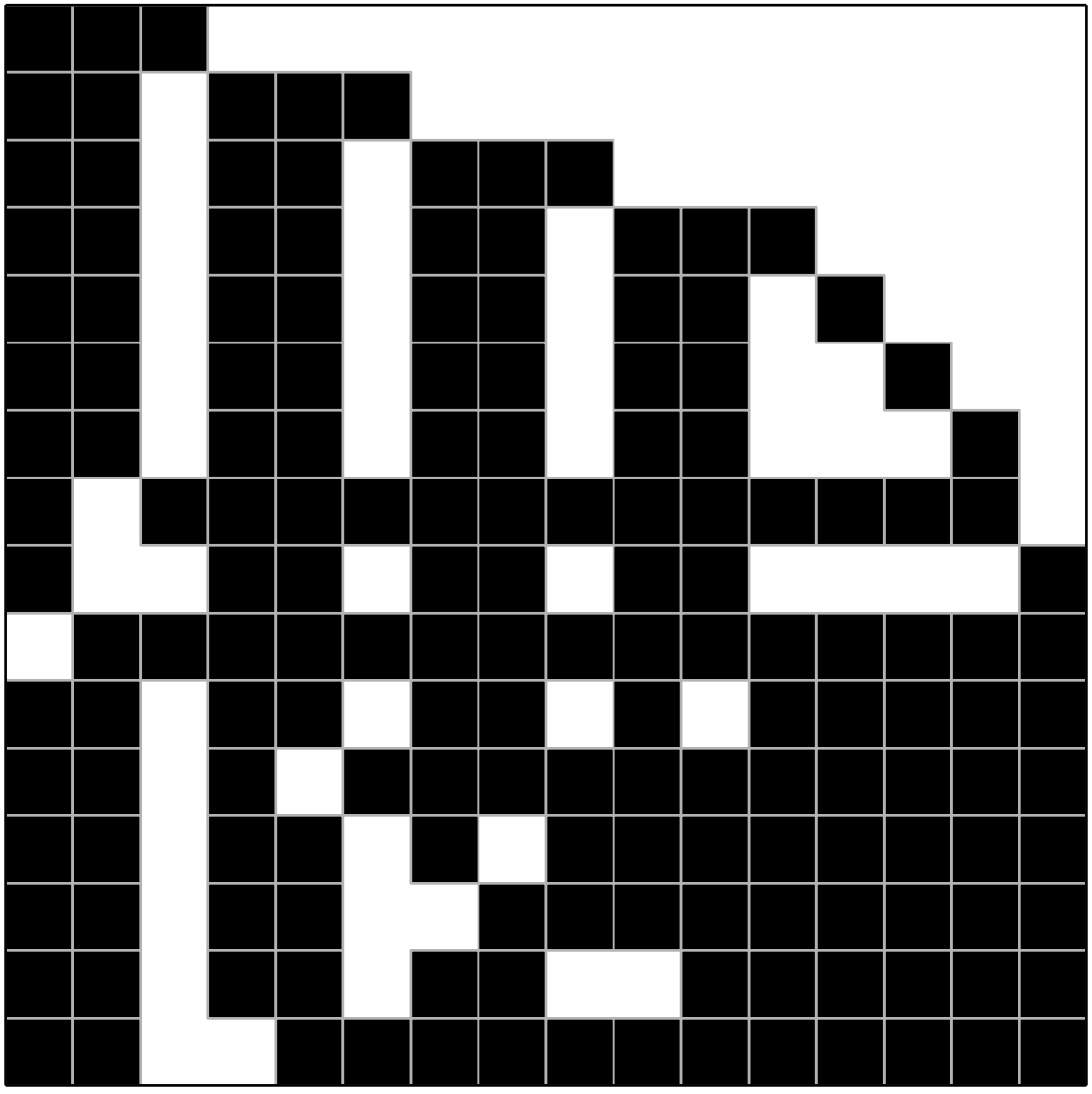
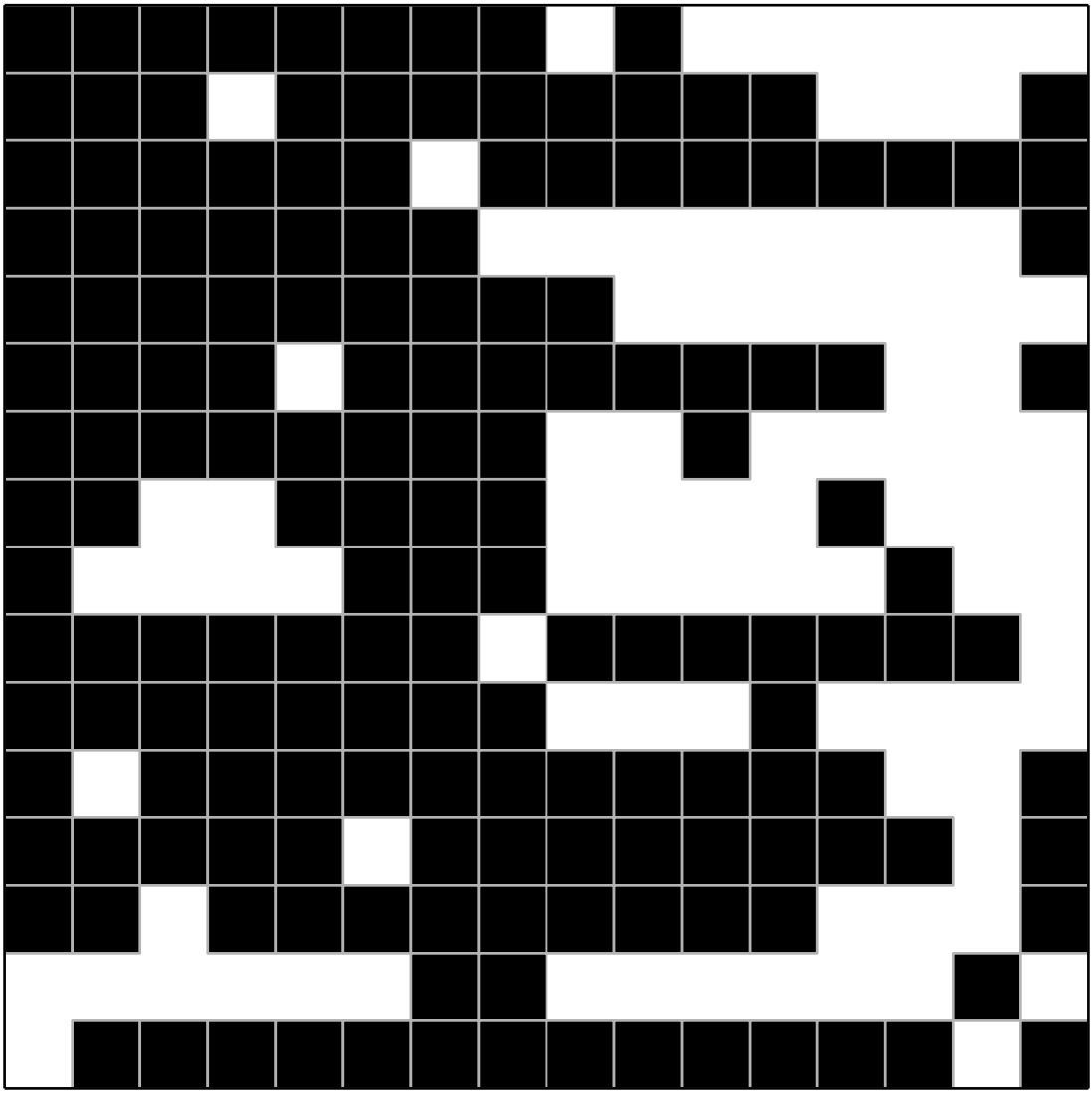


lib3_eco8-04 16x16 (166) con: 8, var: 8



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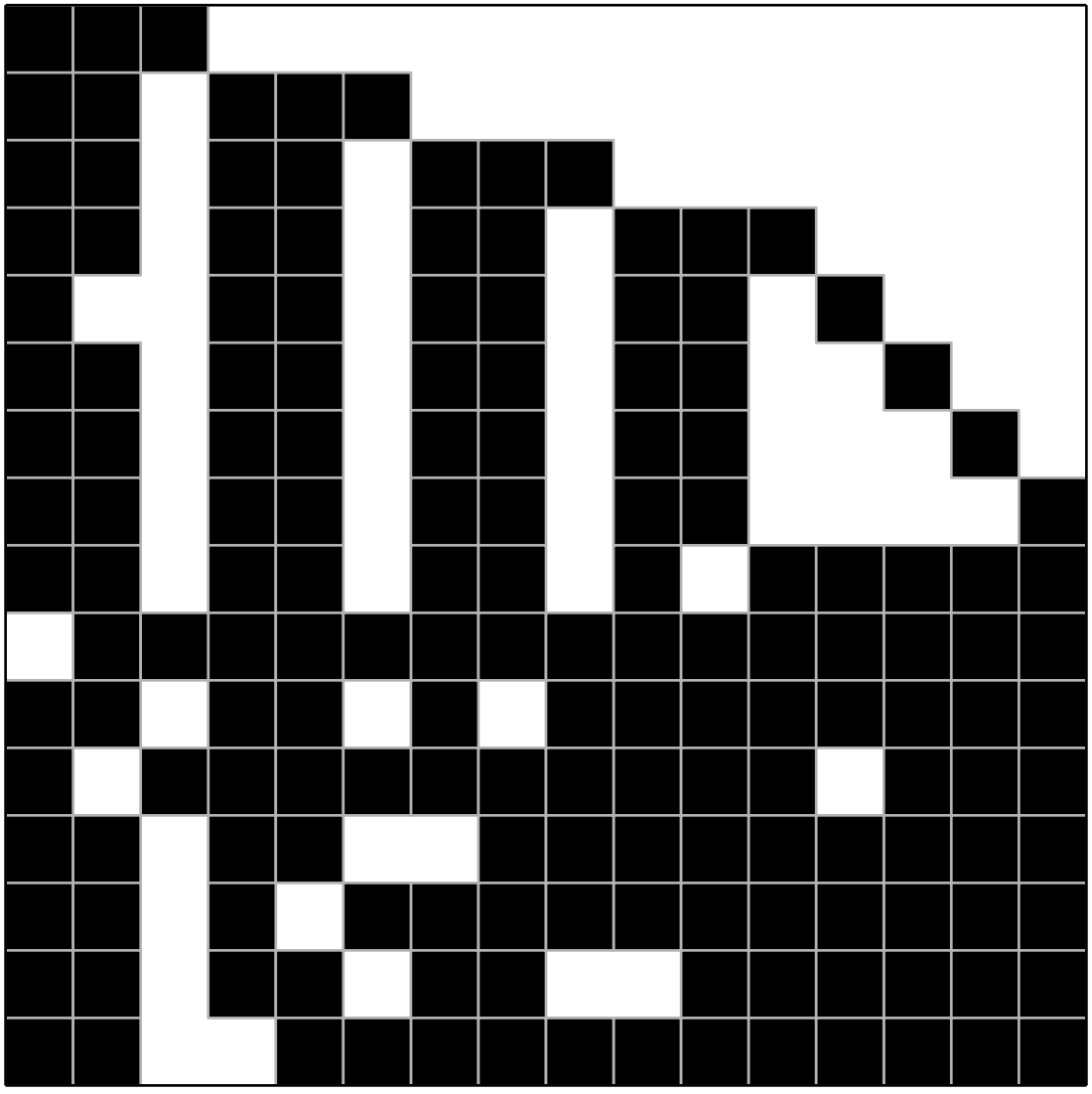

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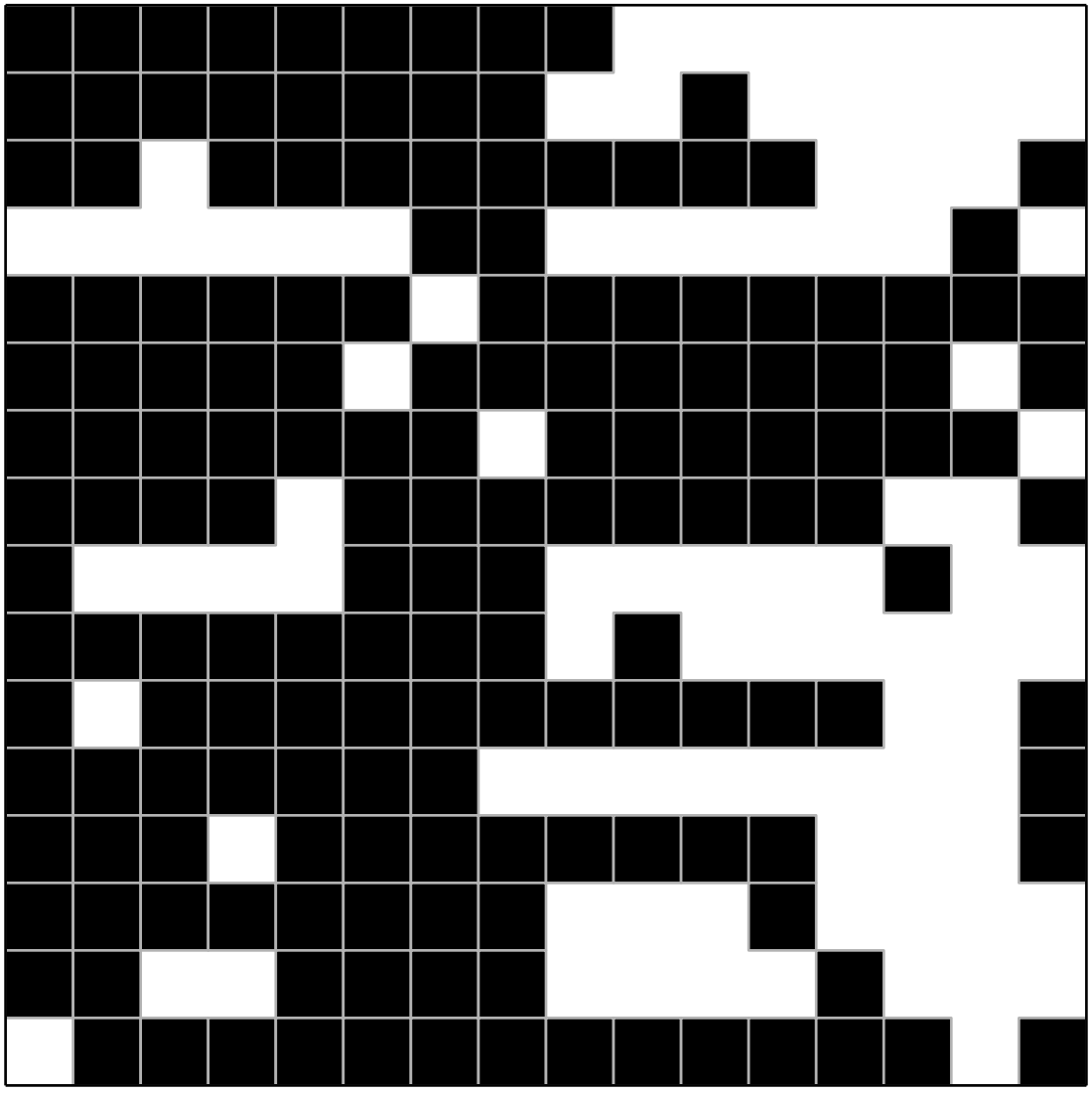

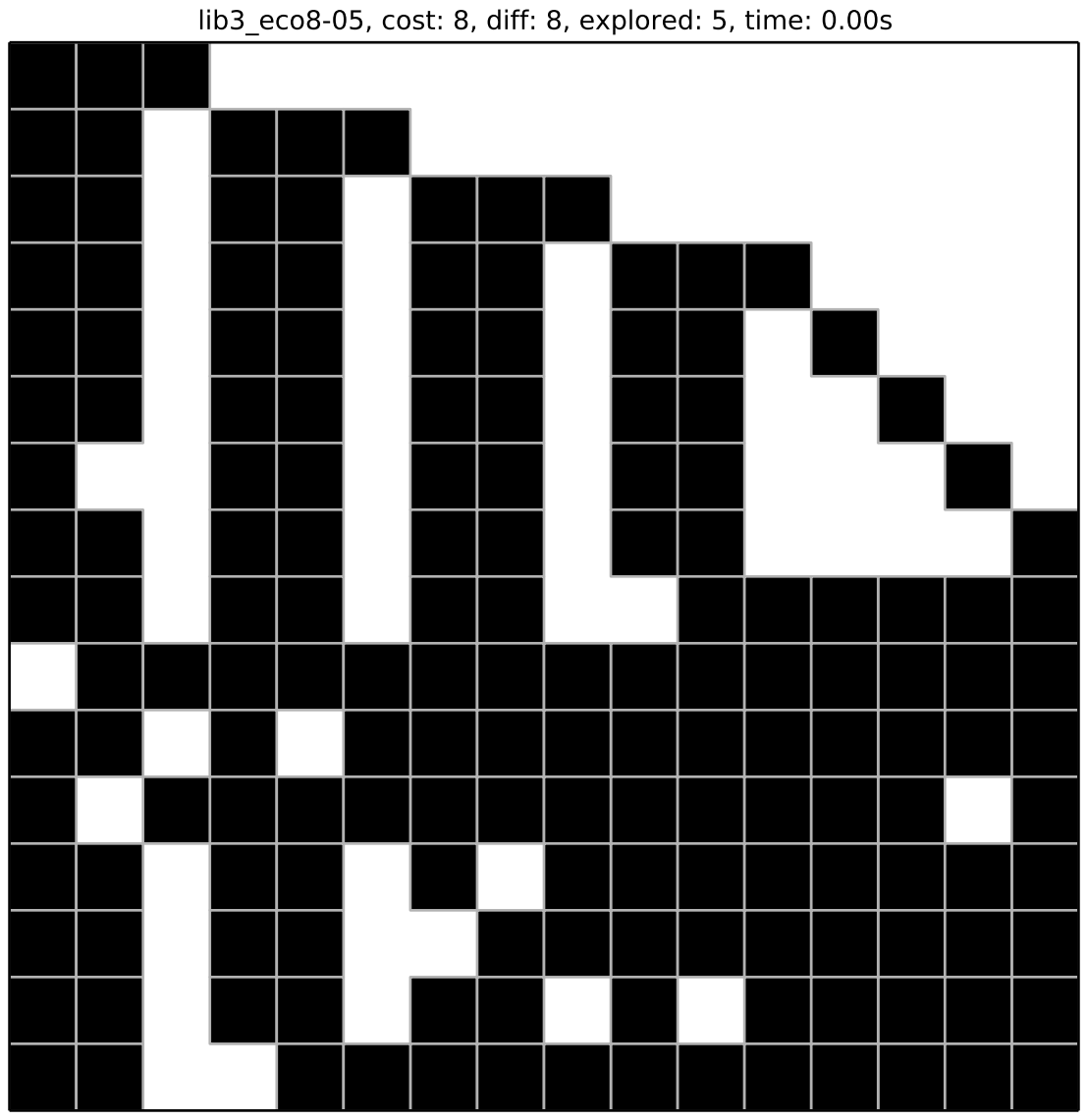
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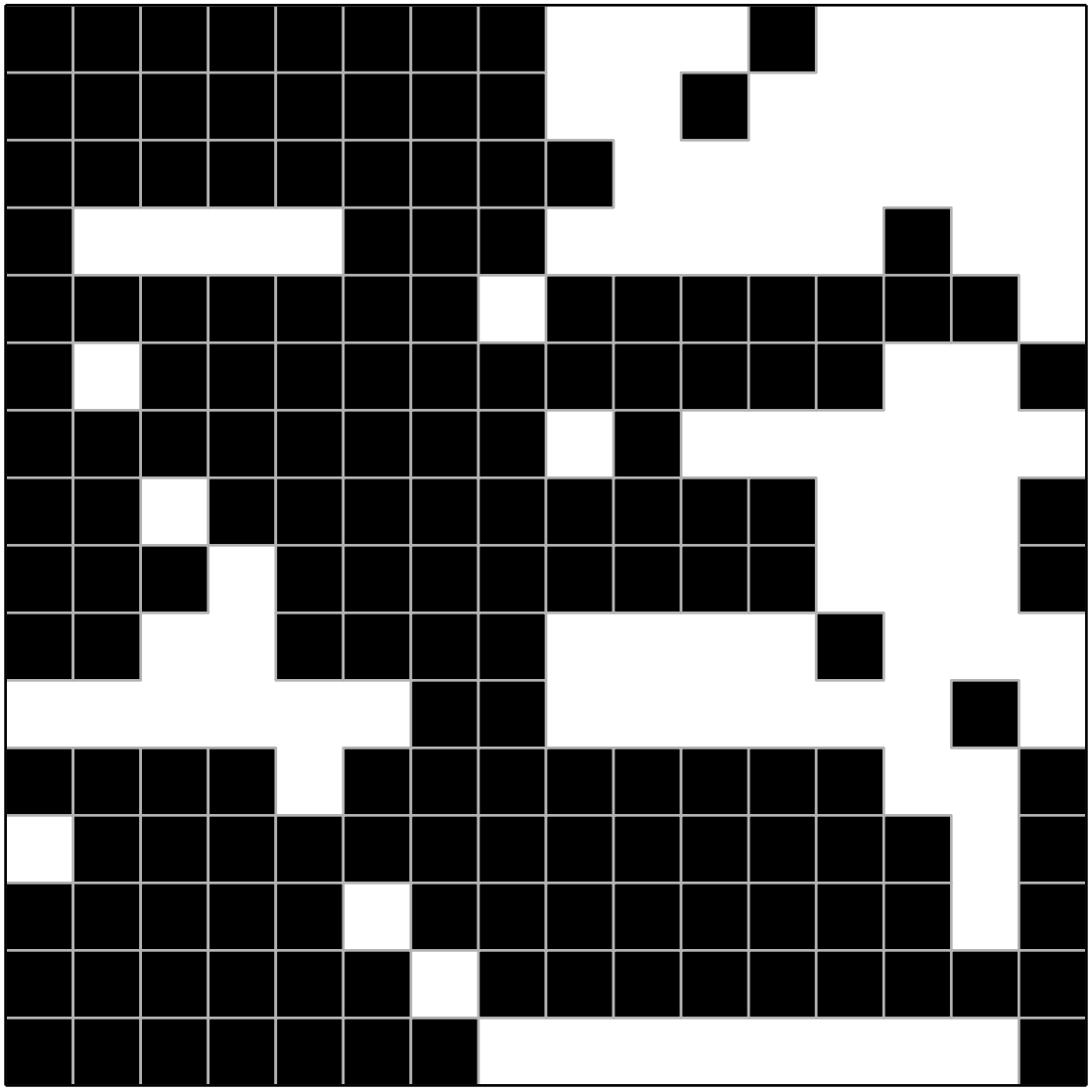

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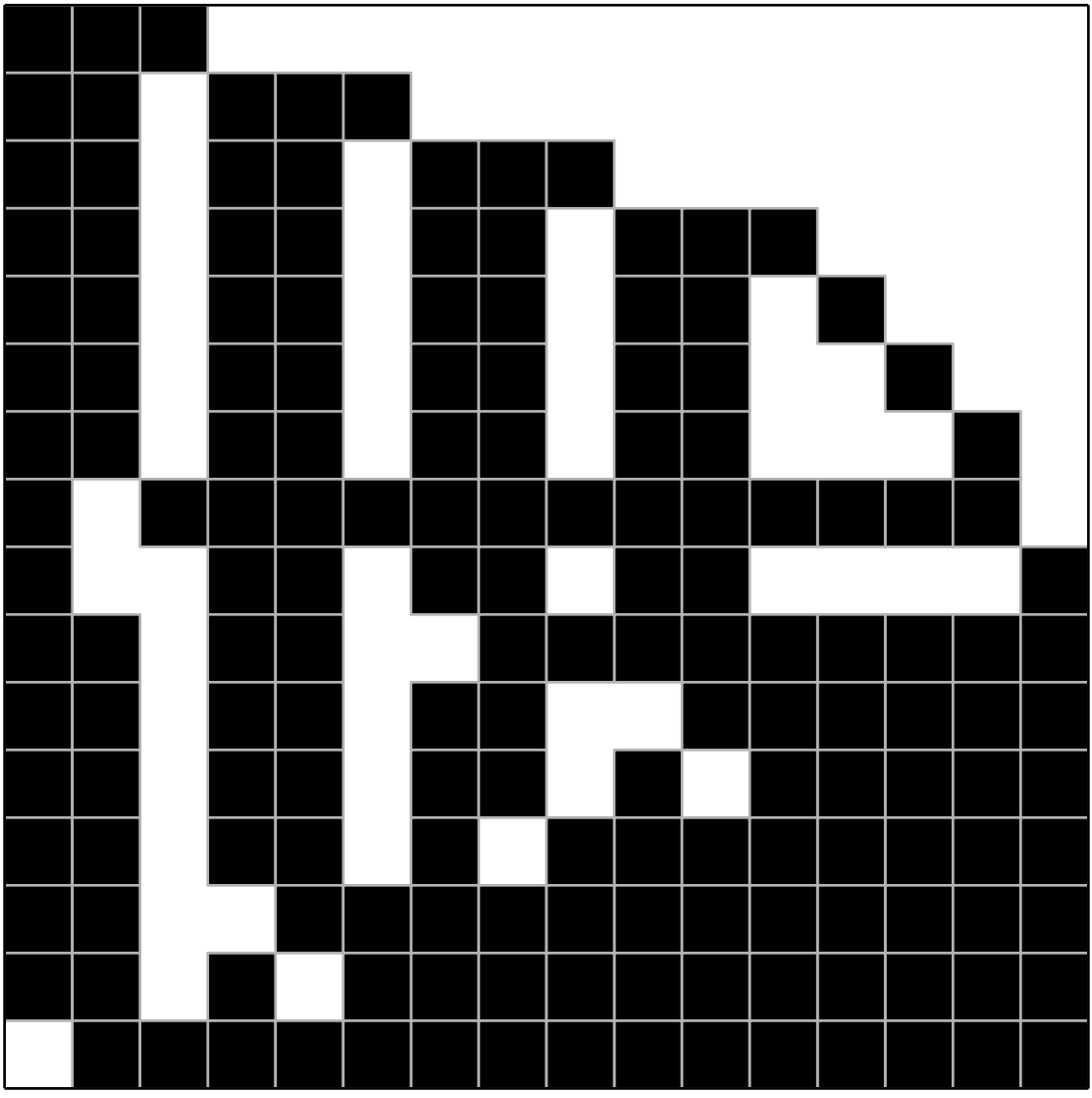
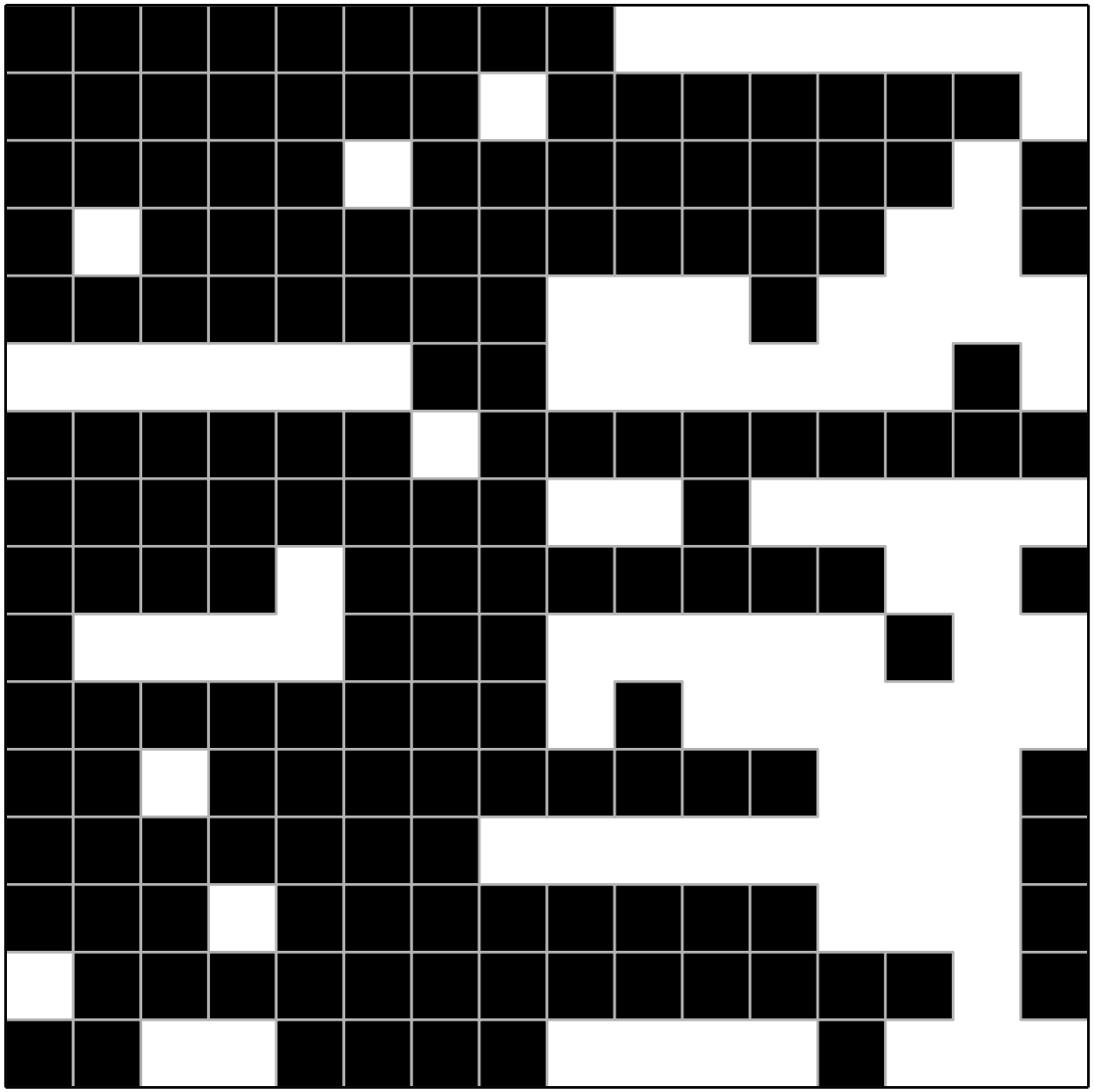


lib3_eco8-07 16x16 (166) con: 8, var: 8



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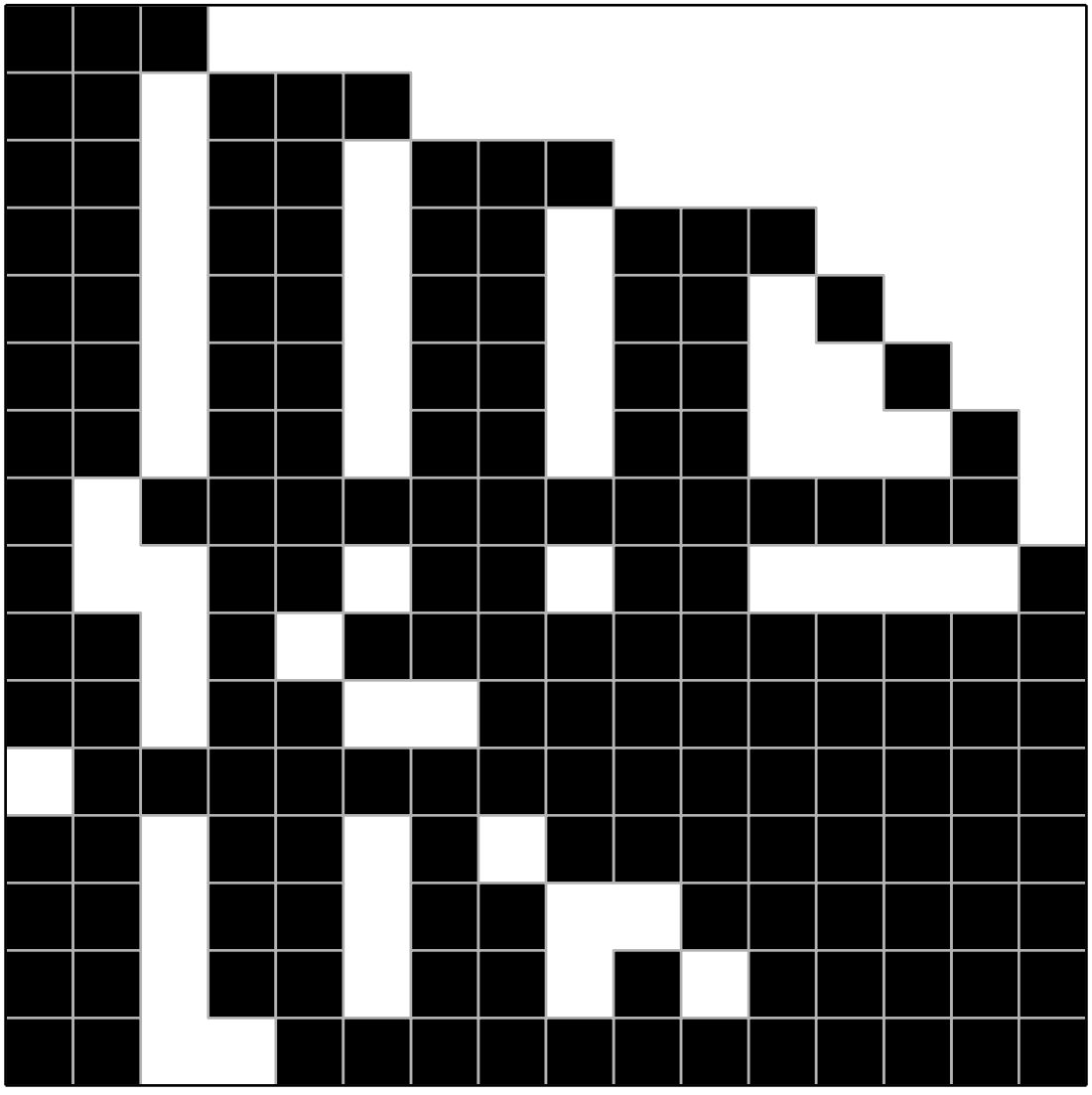

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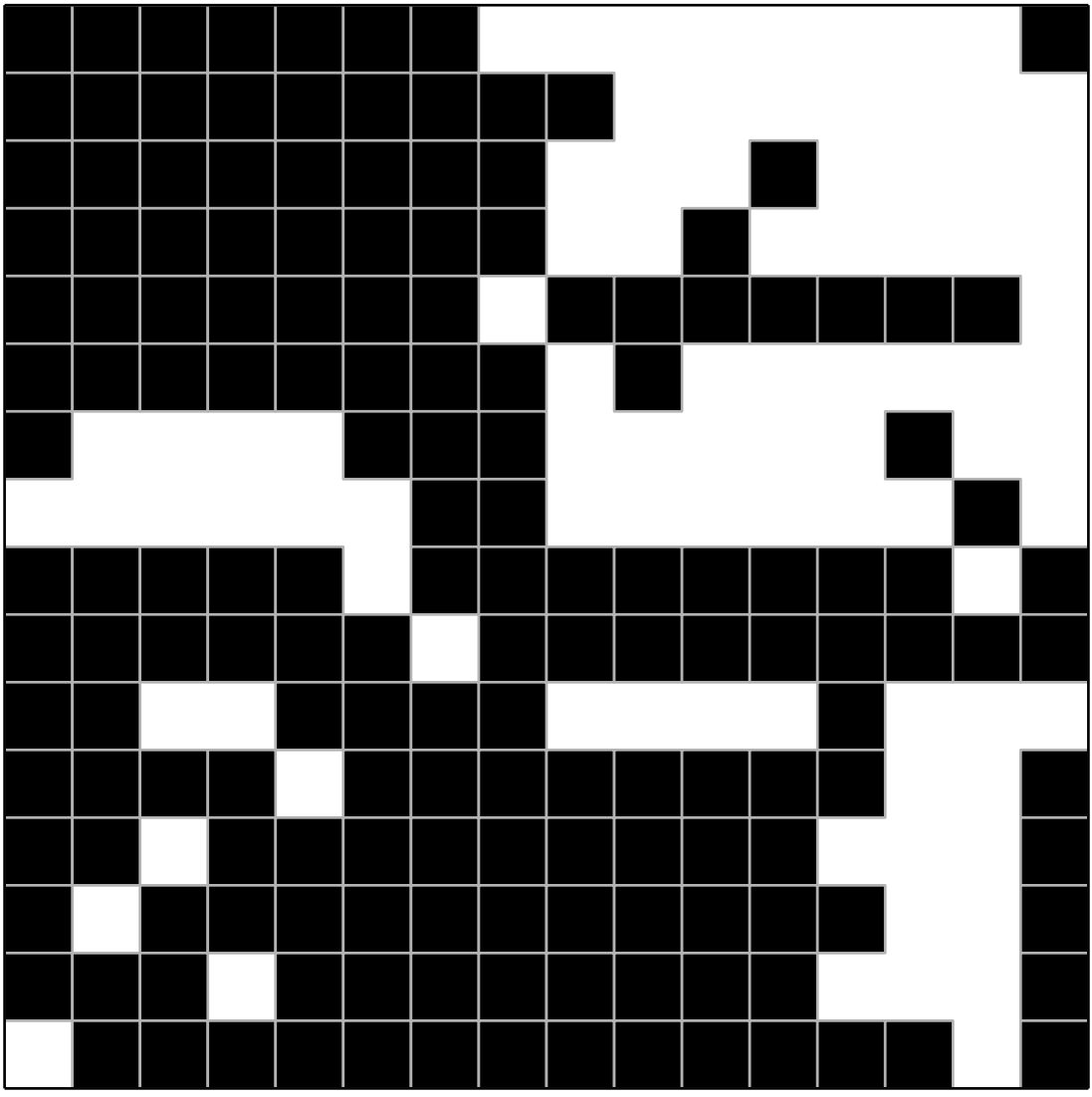

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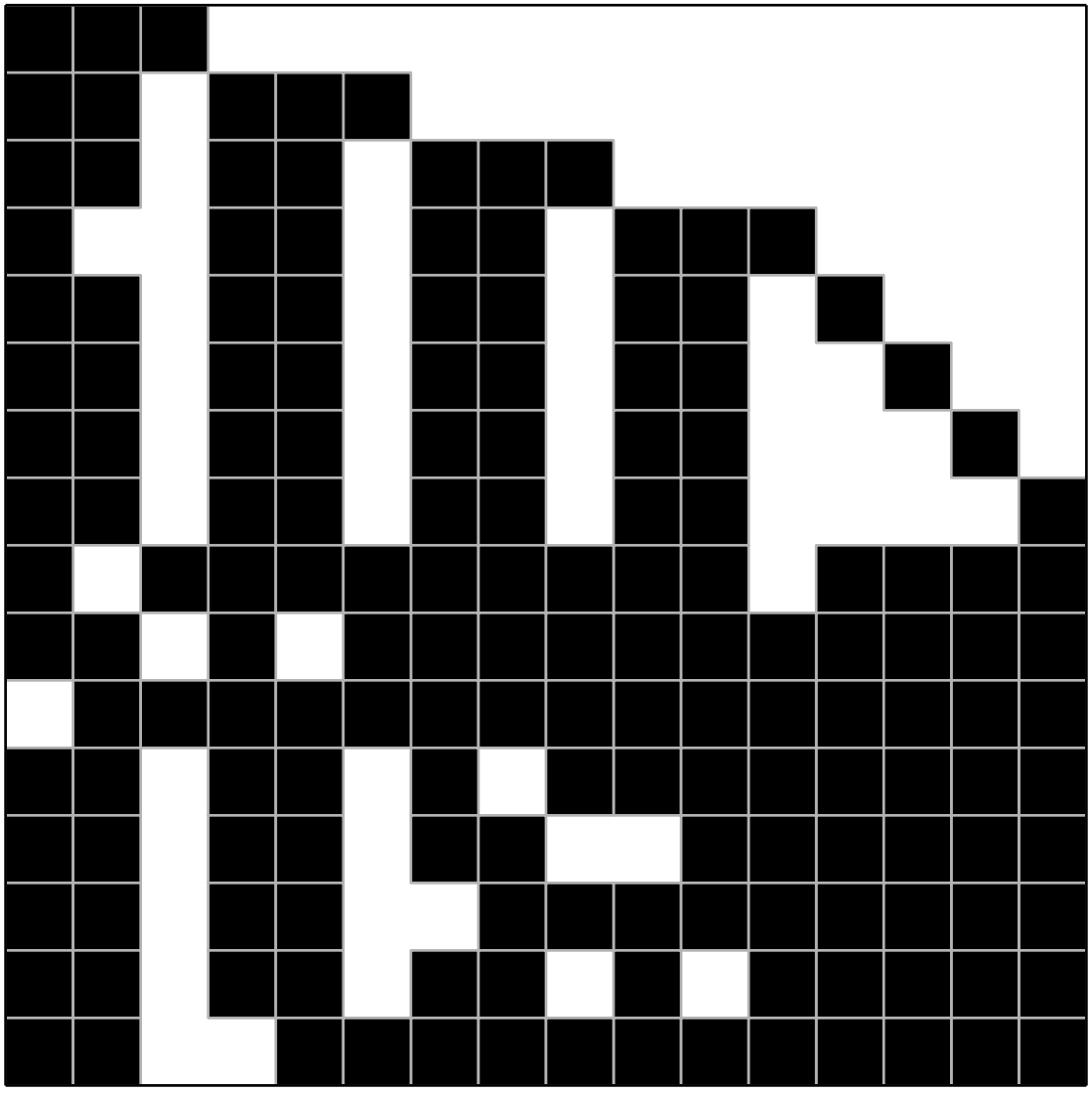

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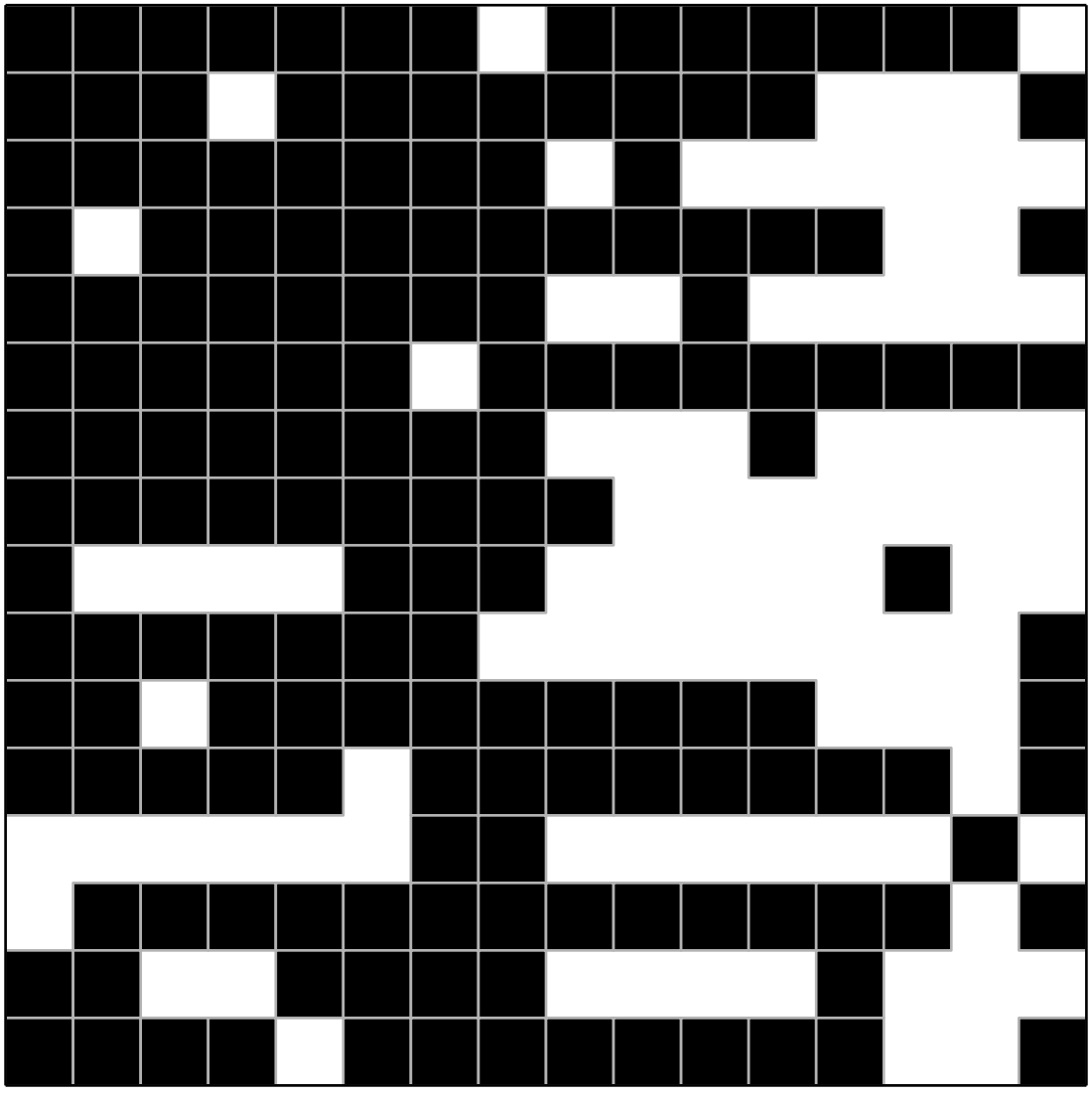

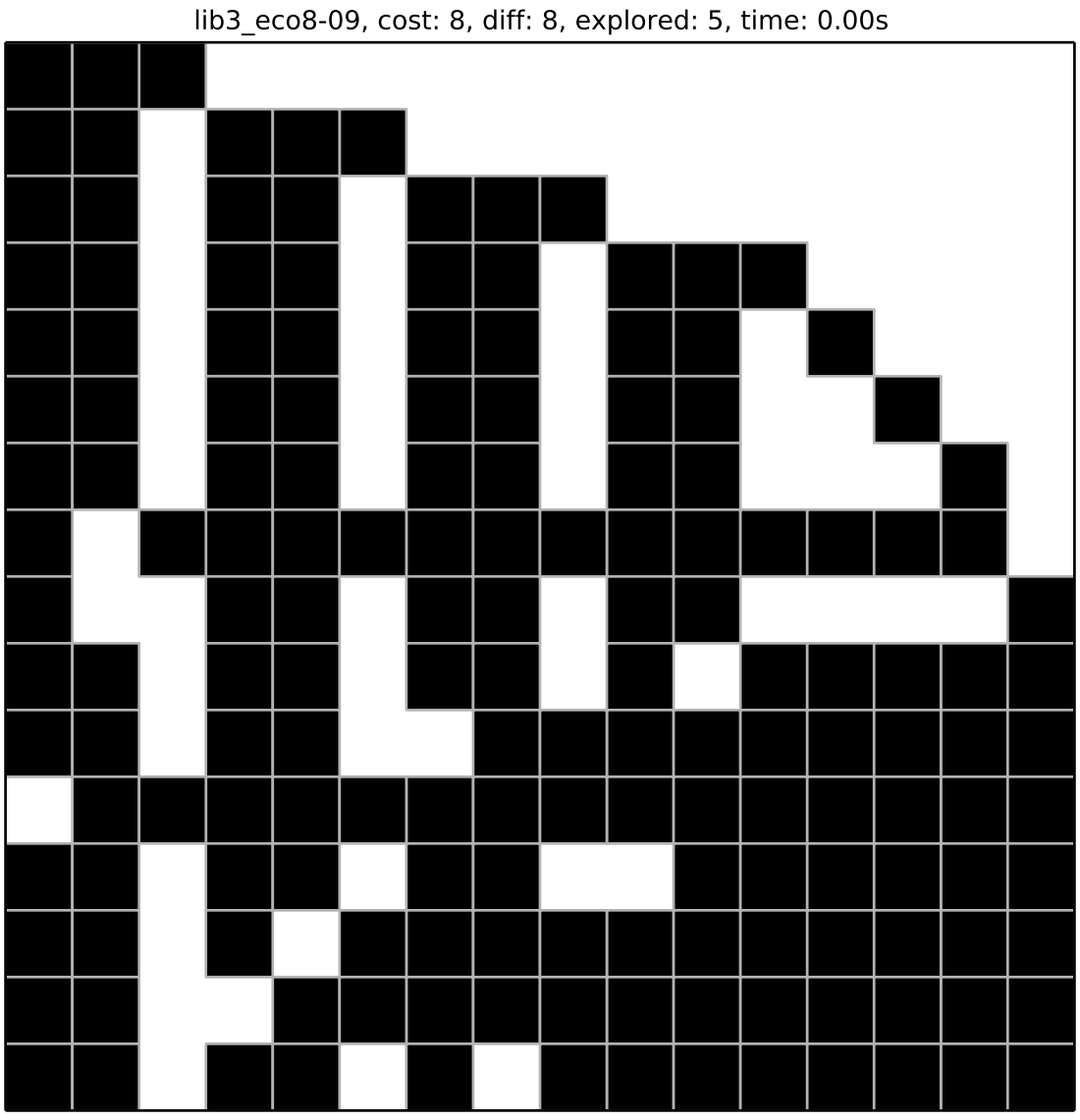
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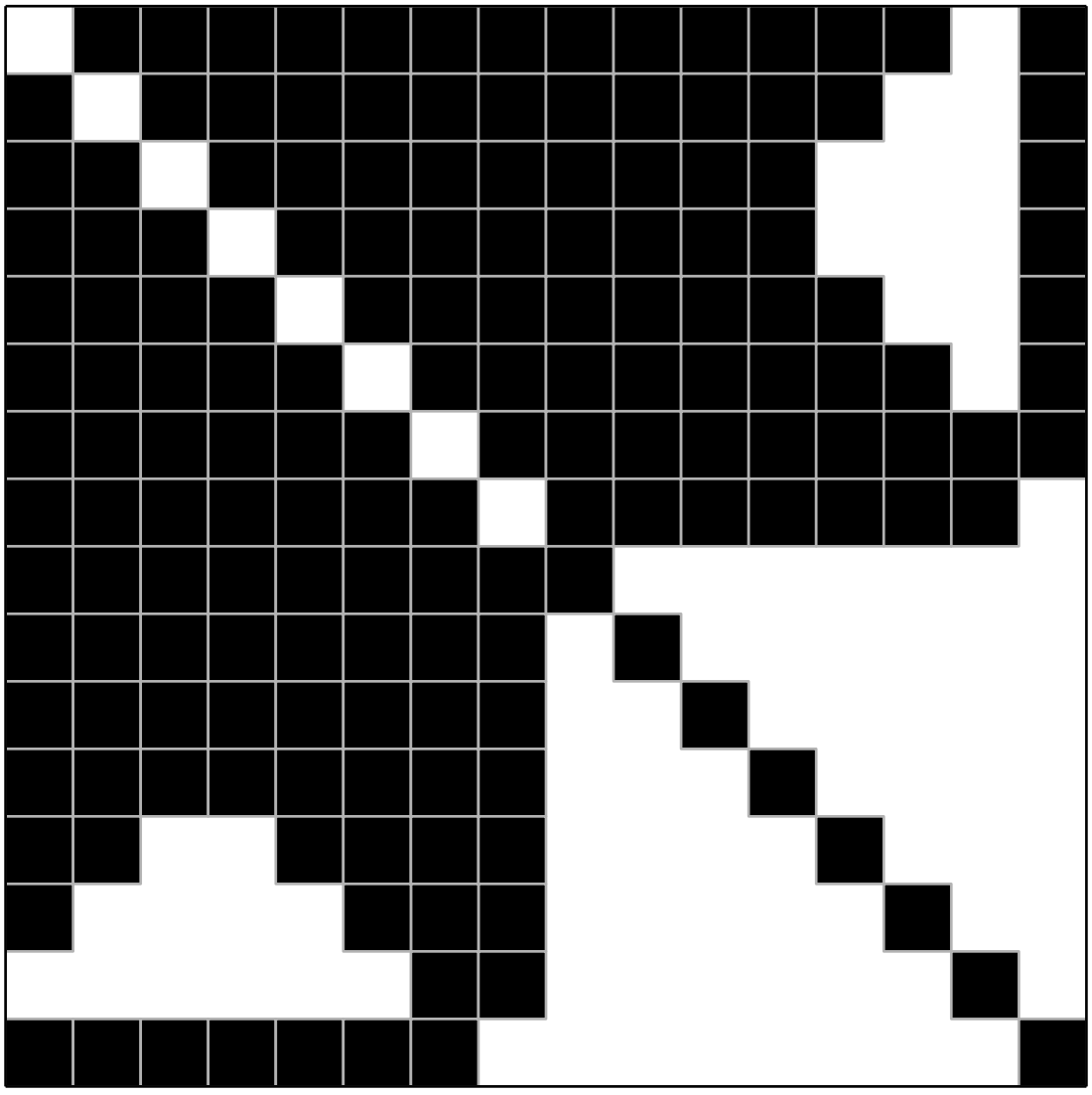
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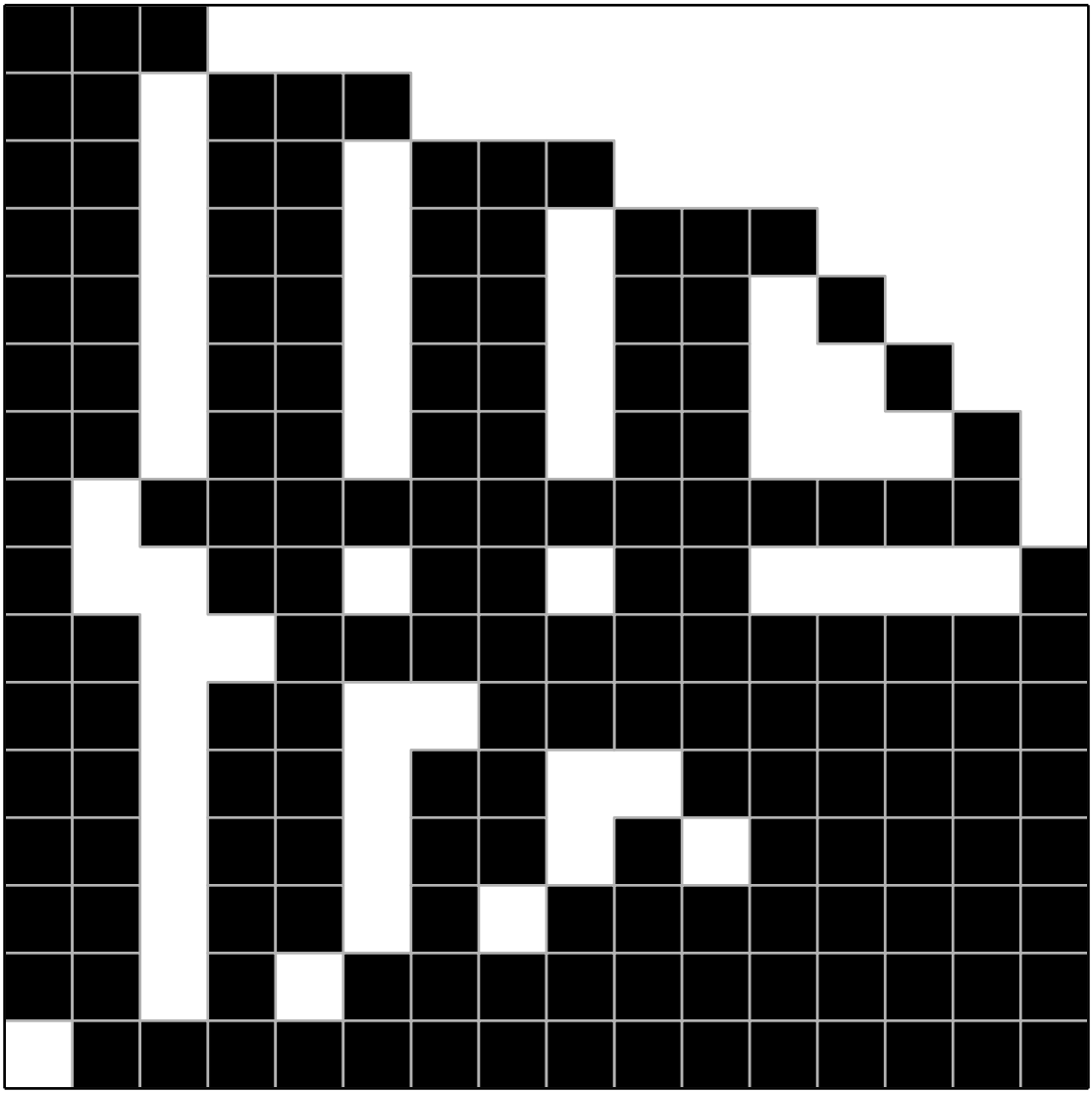
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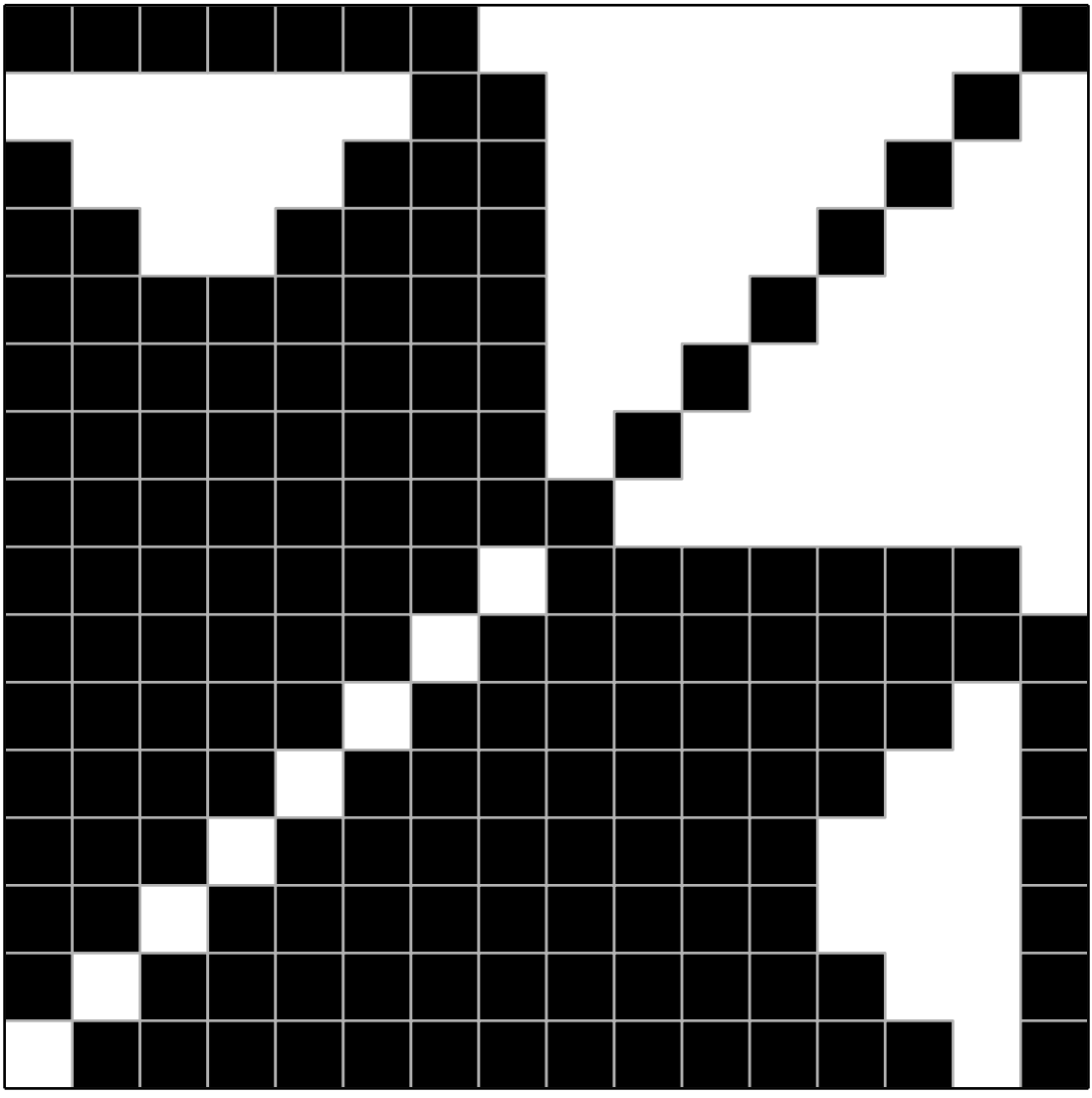
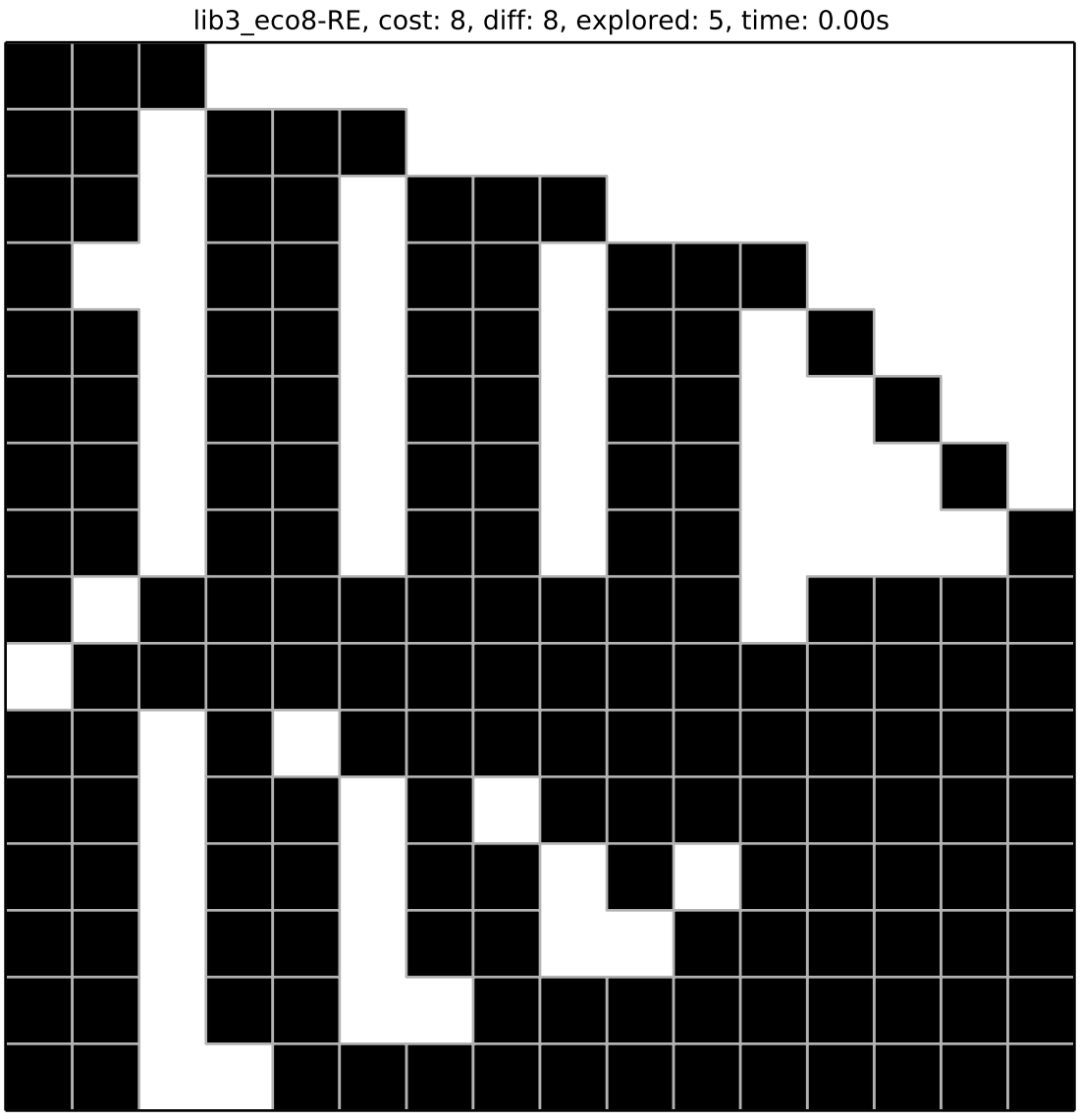
lib3_eco8-RE 16x16 (166) con: 8, var: 8

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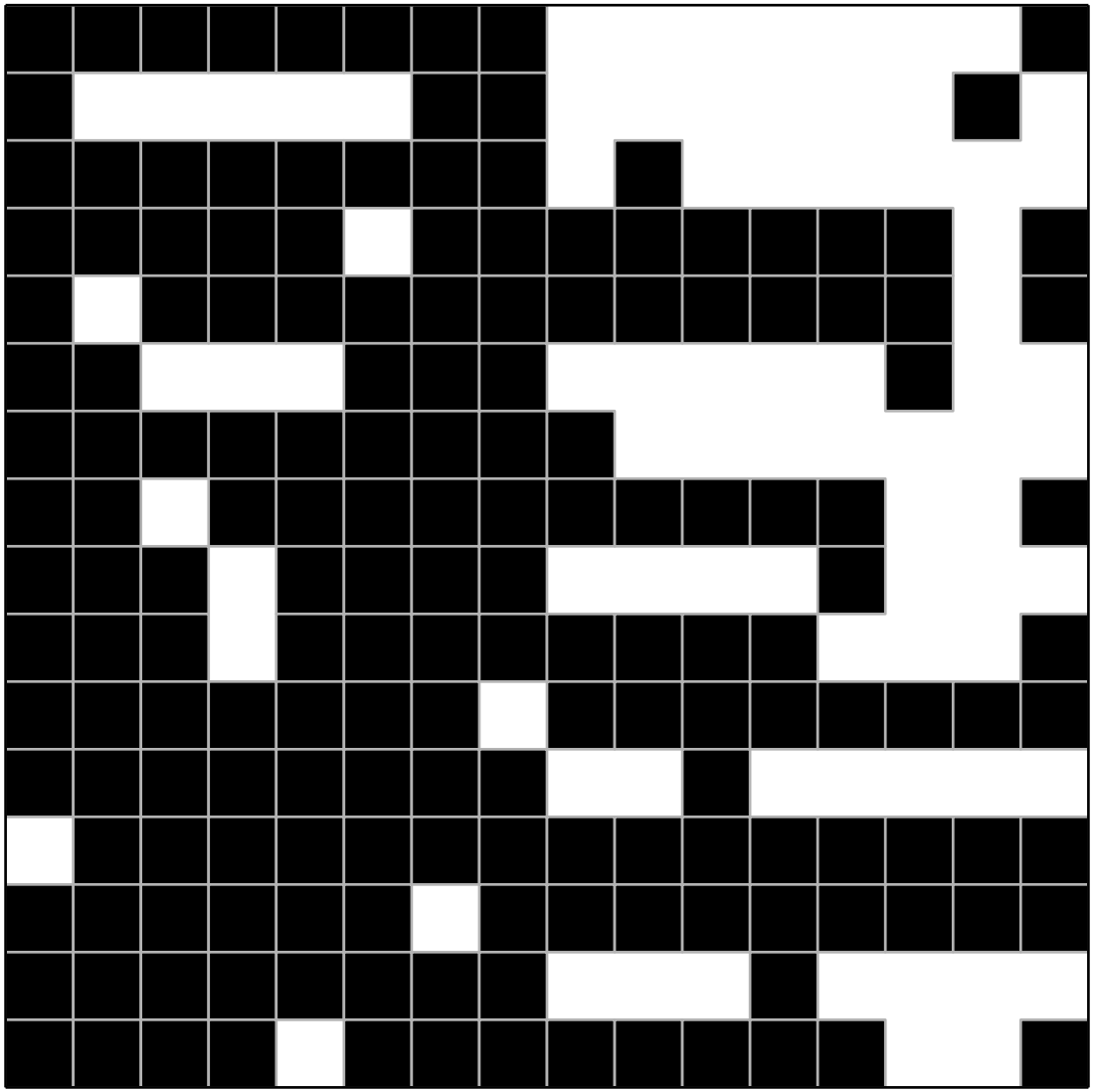
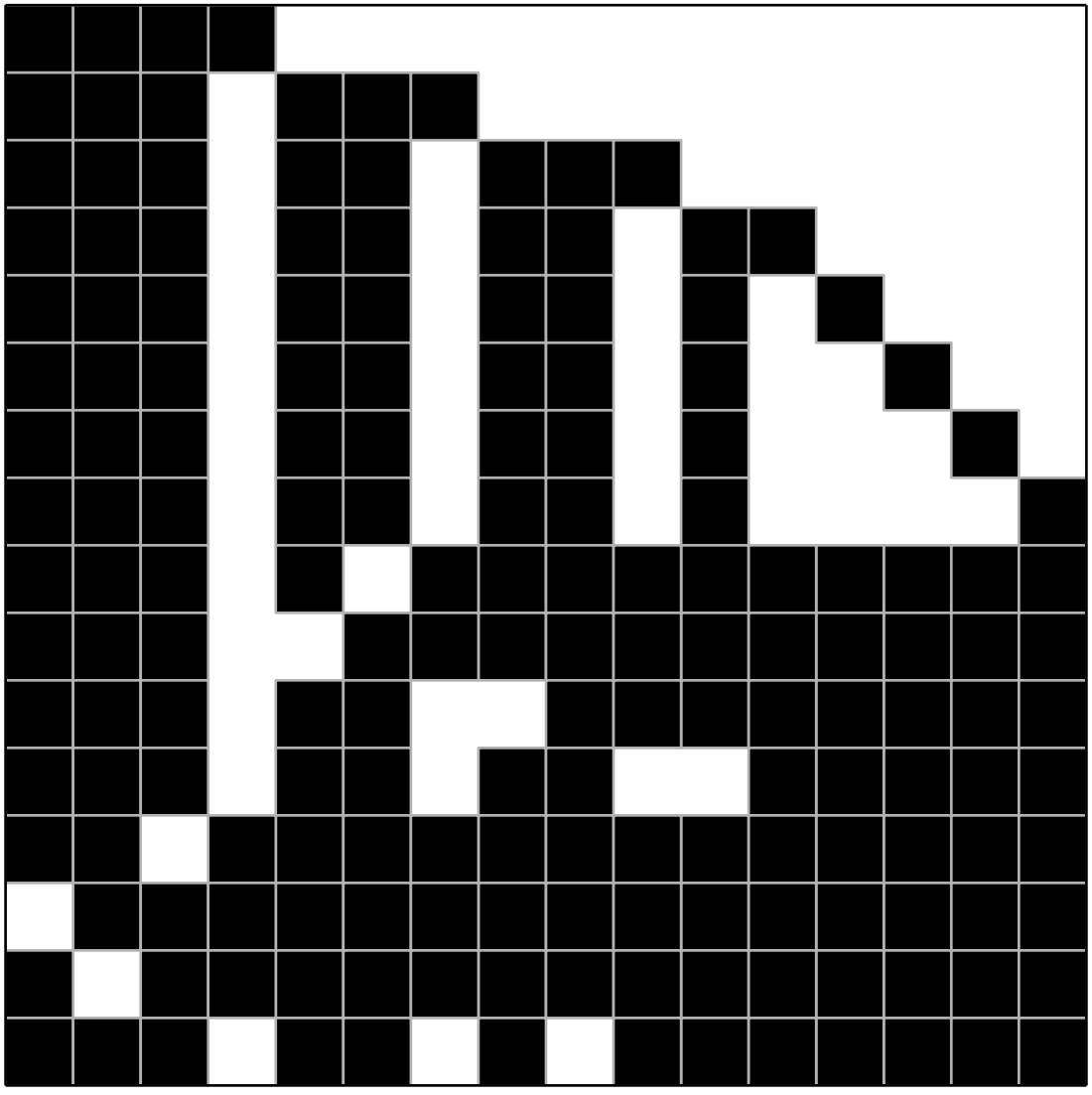
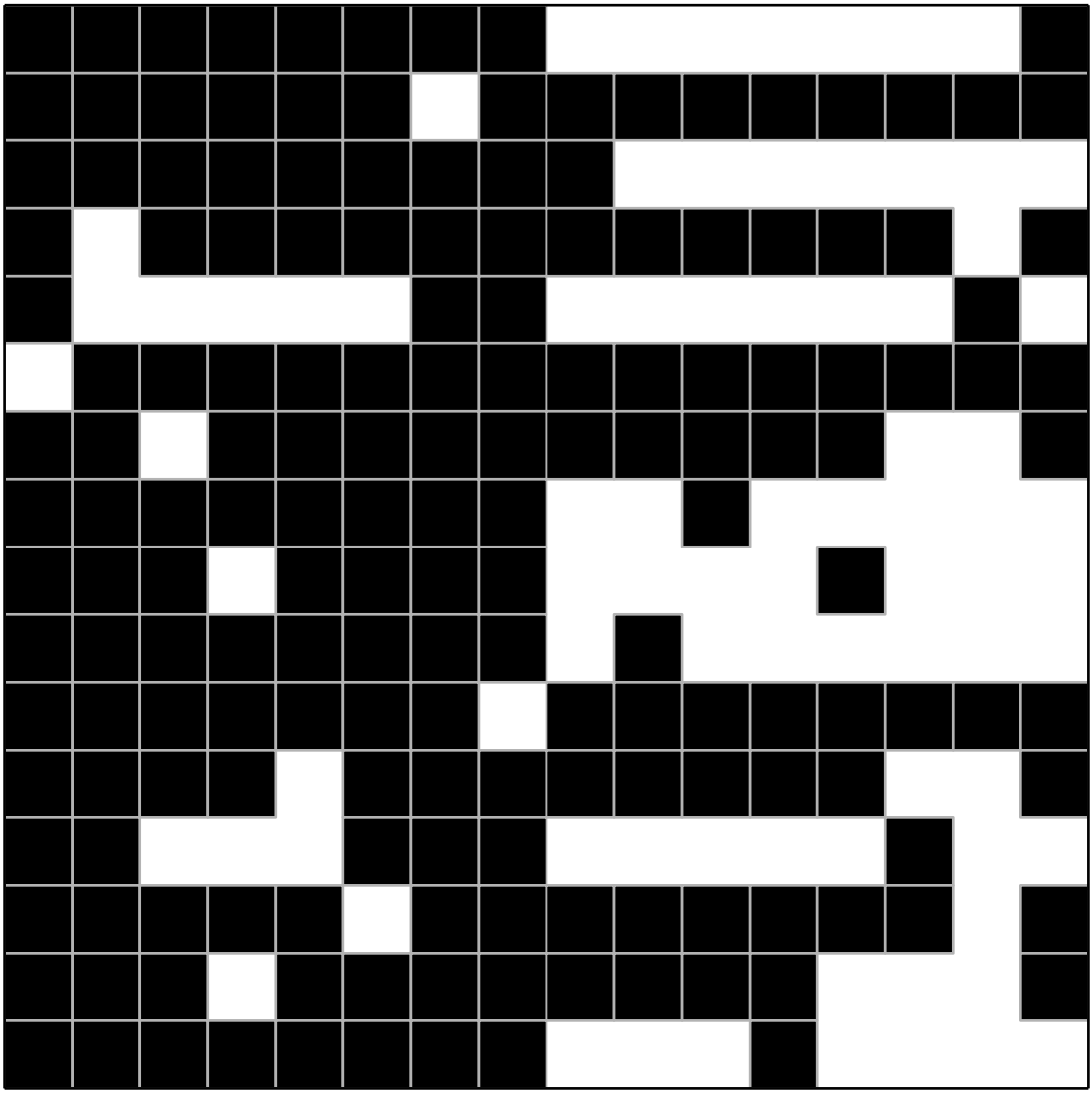
lib3_eco9-00 16x16 (174) con: 8, var: 8



lib3_eco9-00, cost: 8, diff: 8, explored: 4, time: 0.00s



lib3_eco9-01 16x16 (174) con: 8, var: 8



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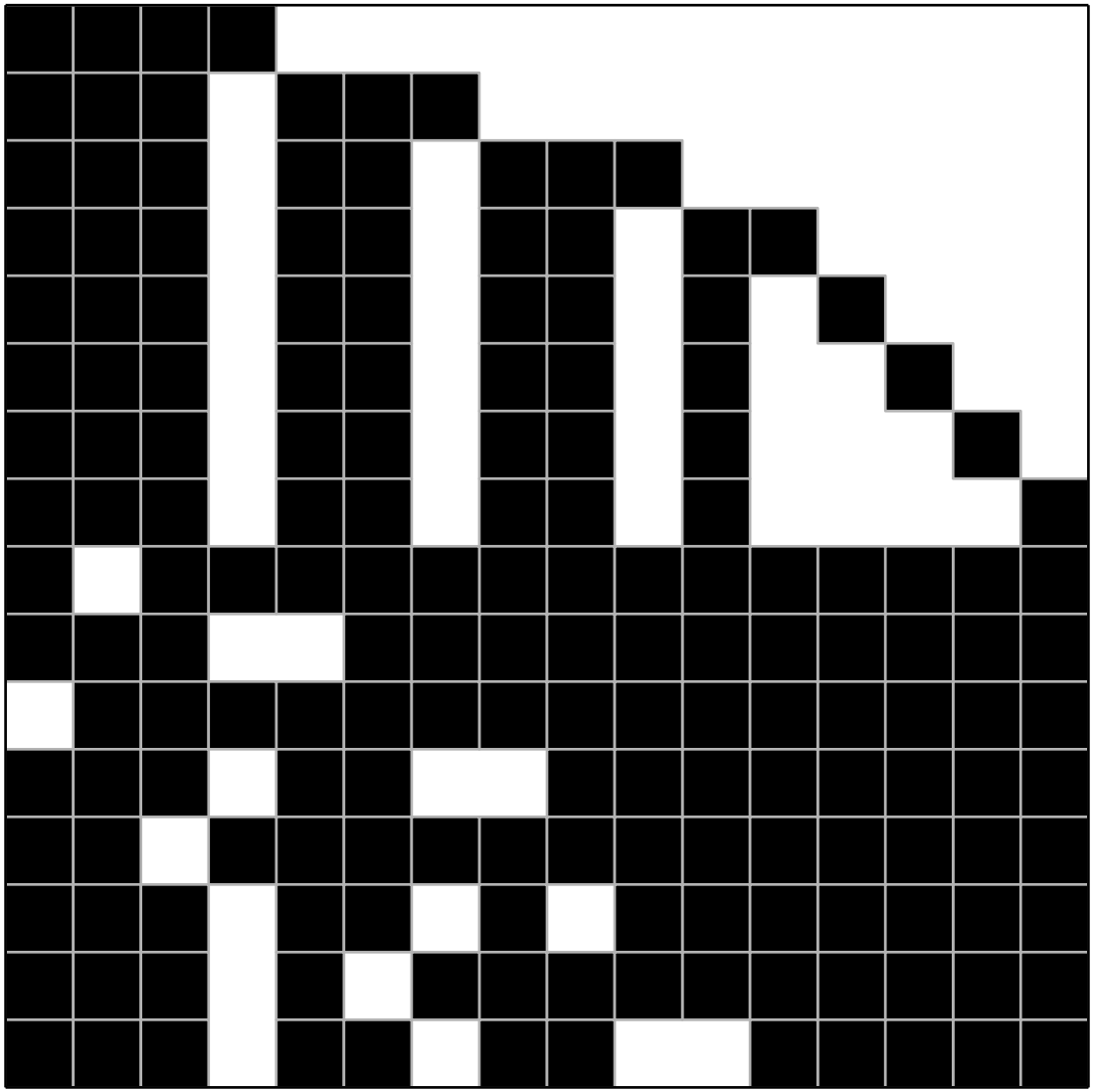
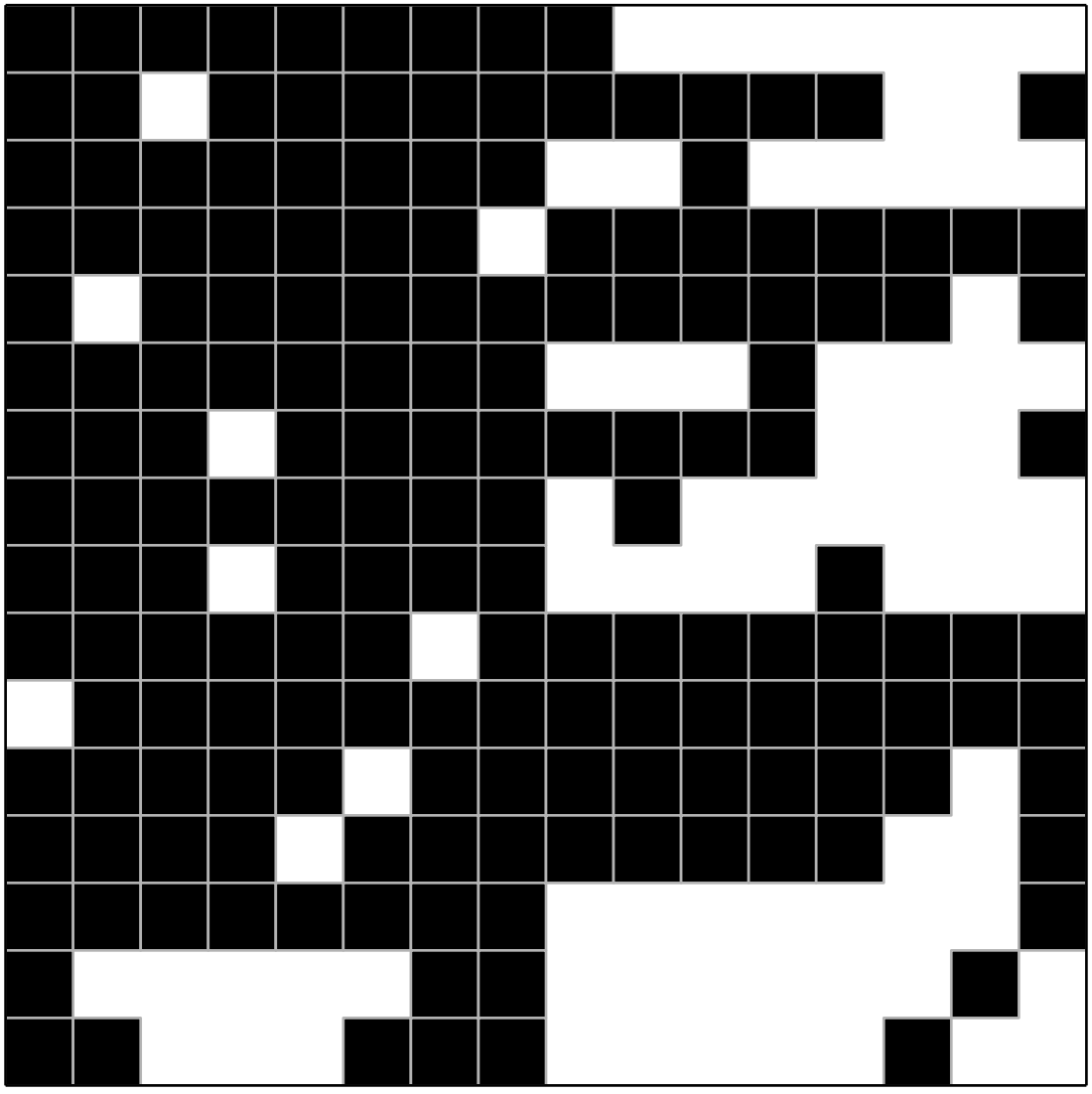


lib3_eco9-02 16x16 (174) con: 8, var: 8



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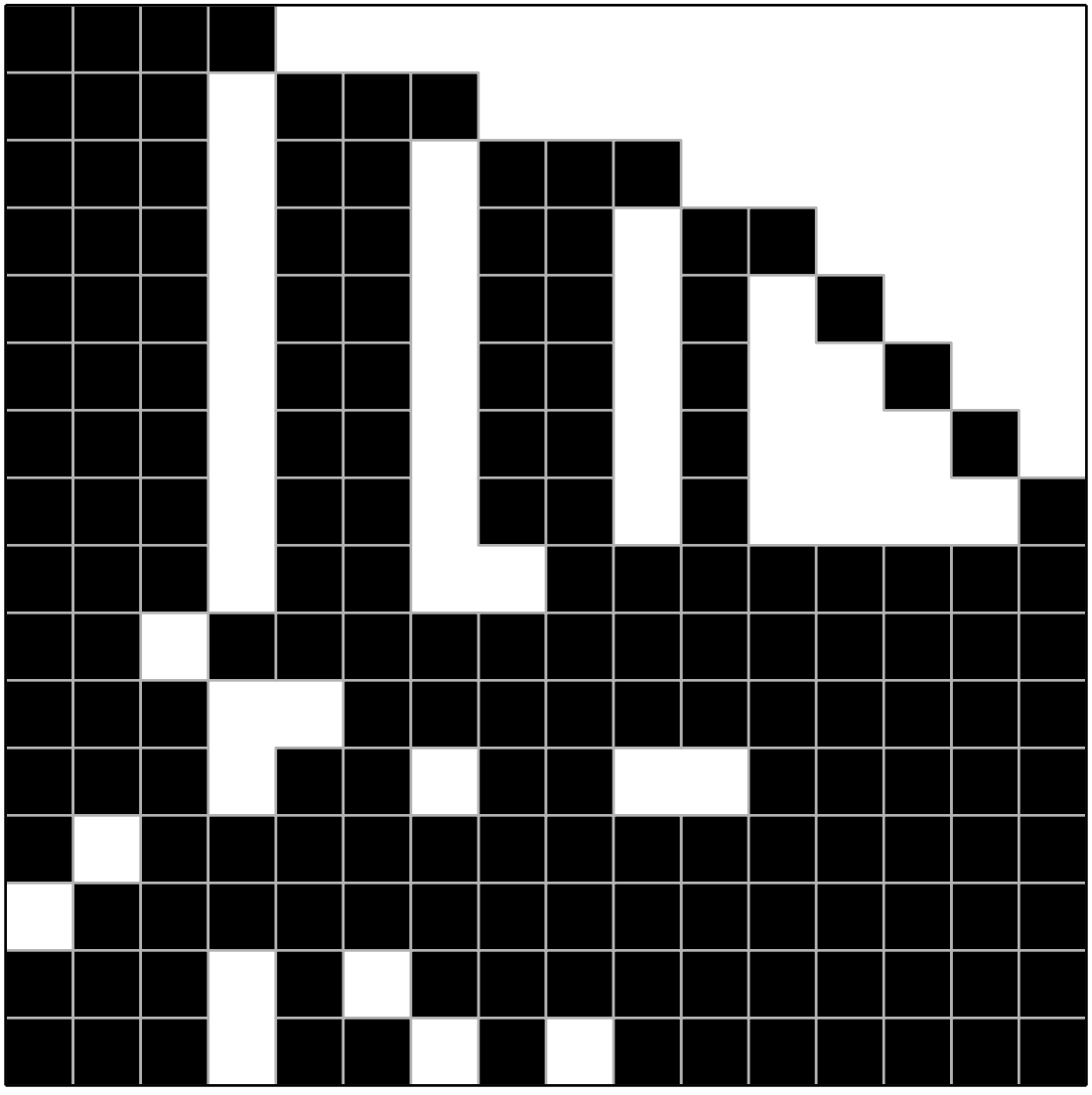
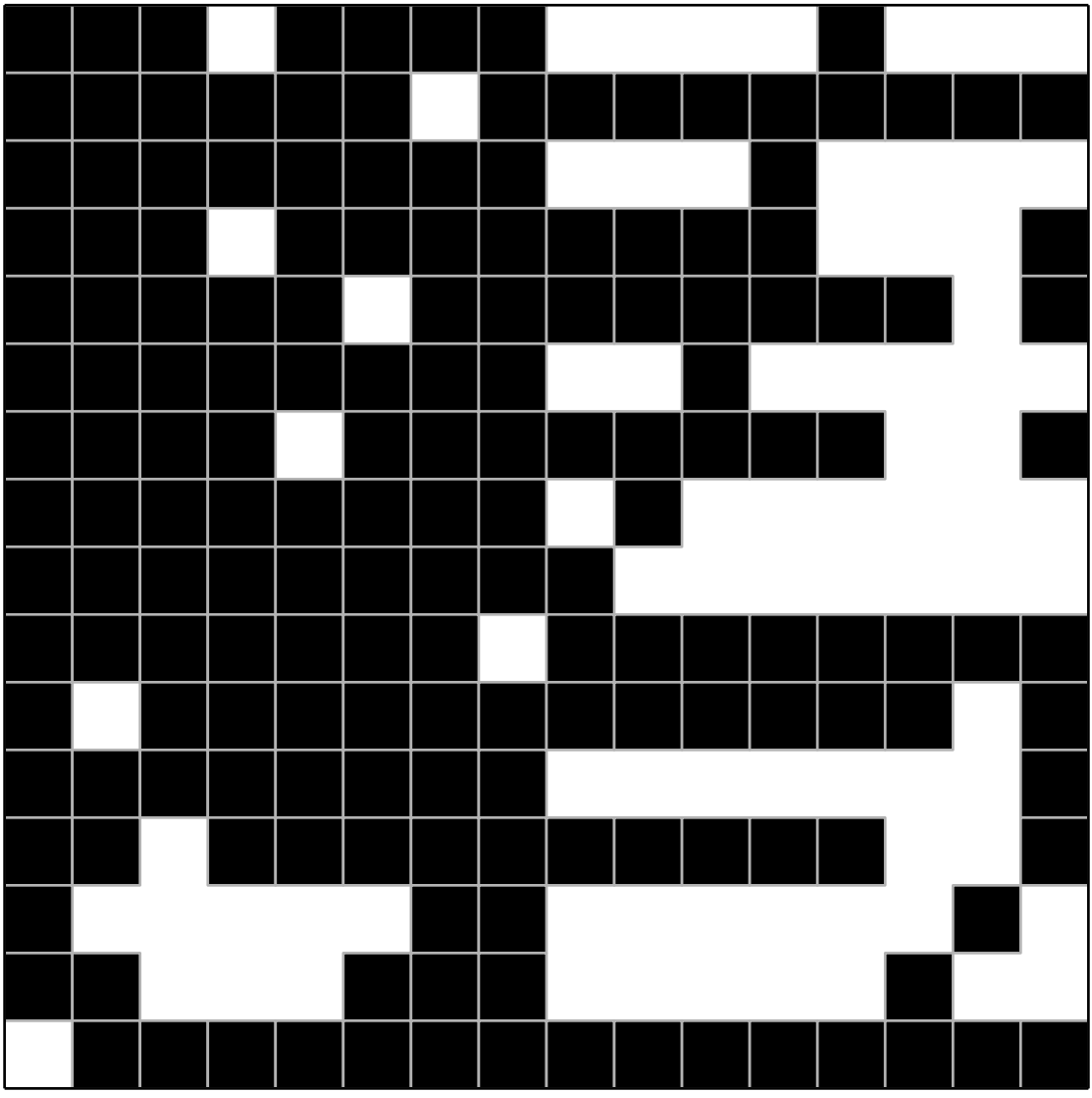


lib3_eco9-03 16x16 (174) con: 8, var: 8



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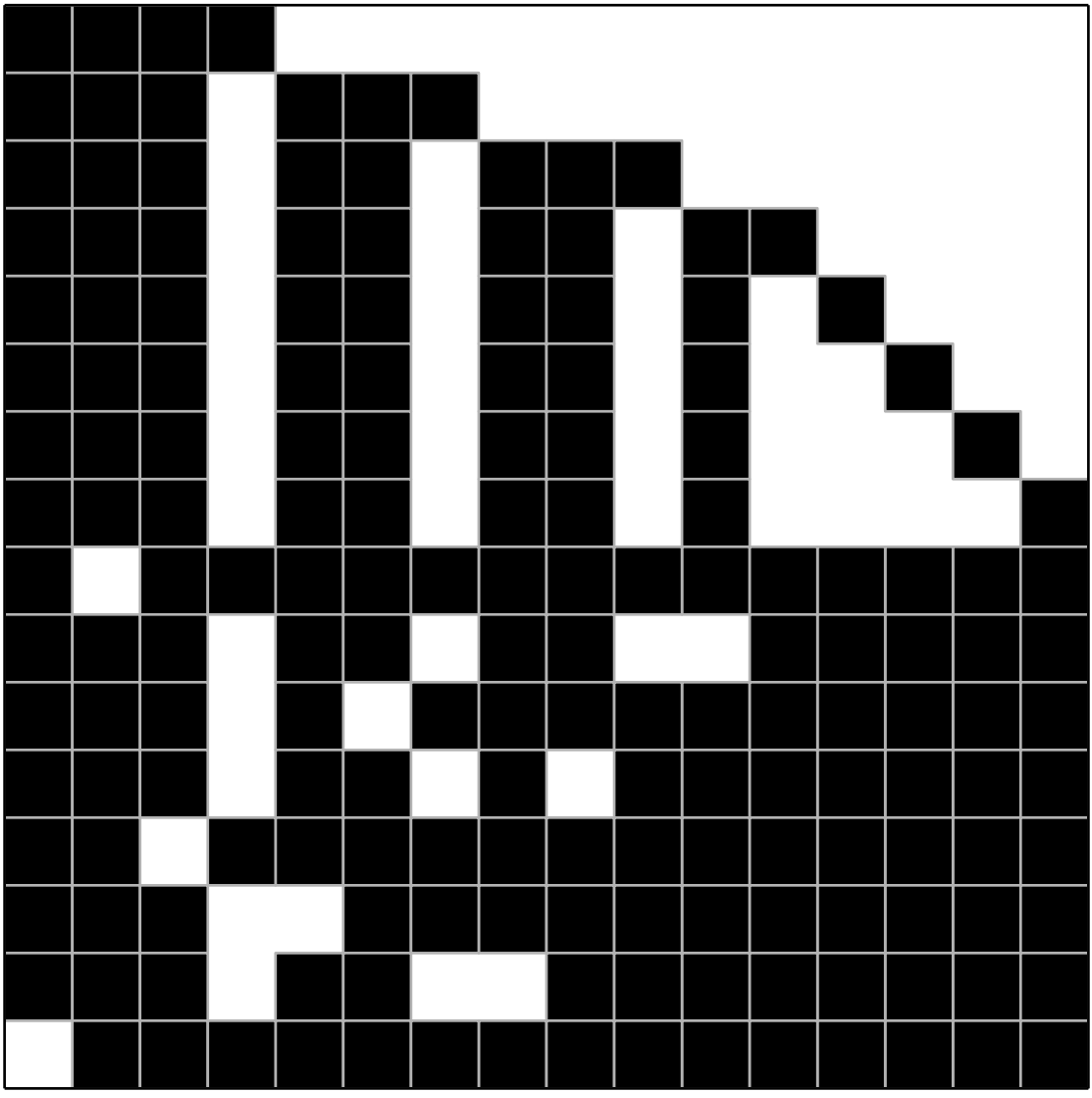
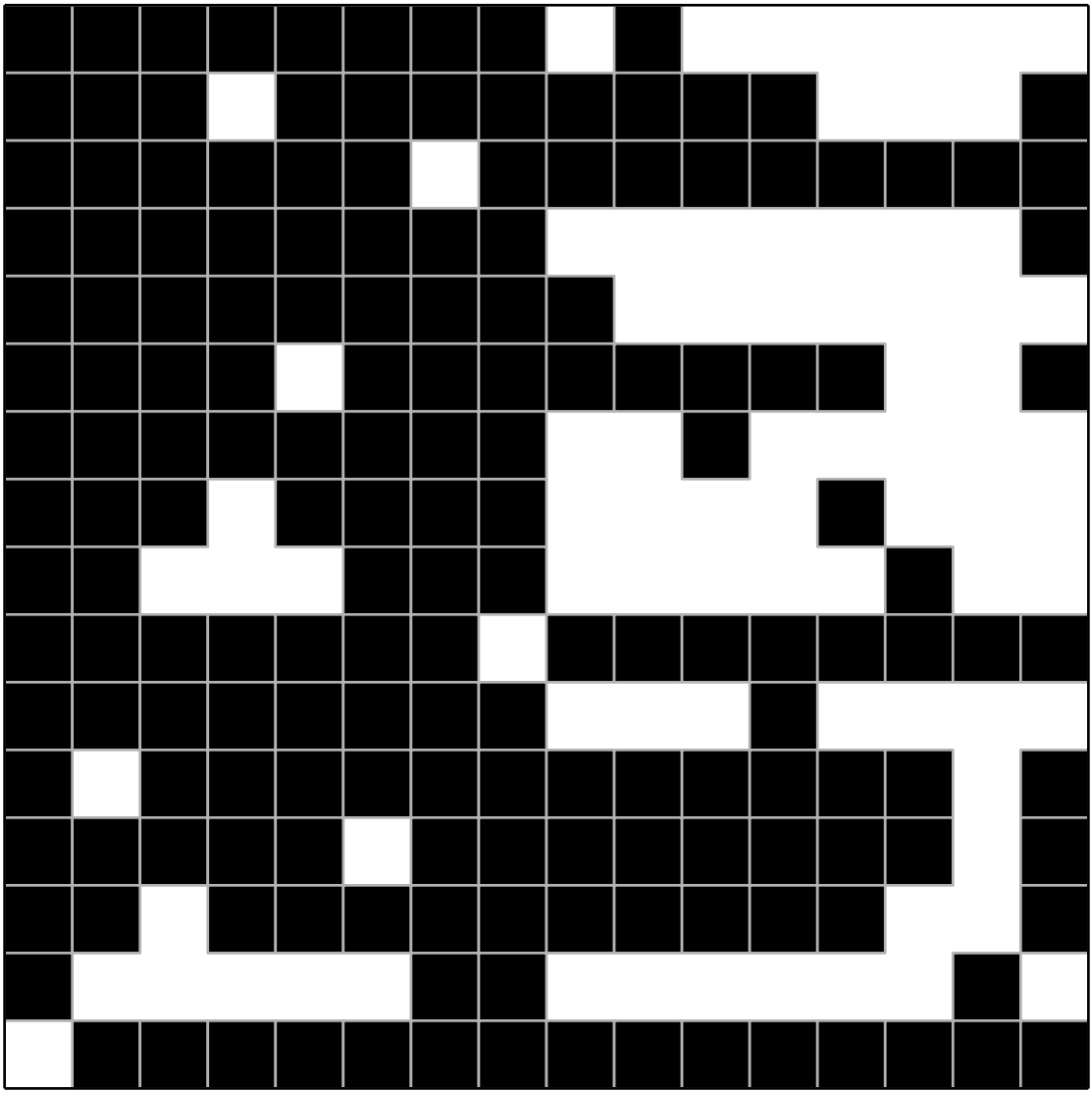


lib3_eco9-04 16x16 (174) con: 8, var: 8



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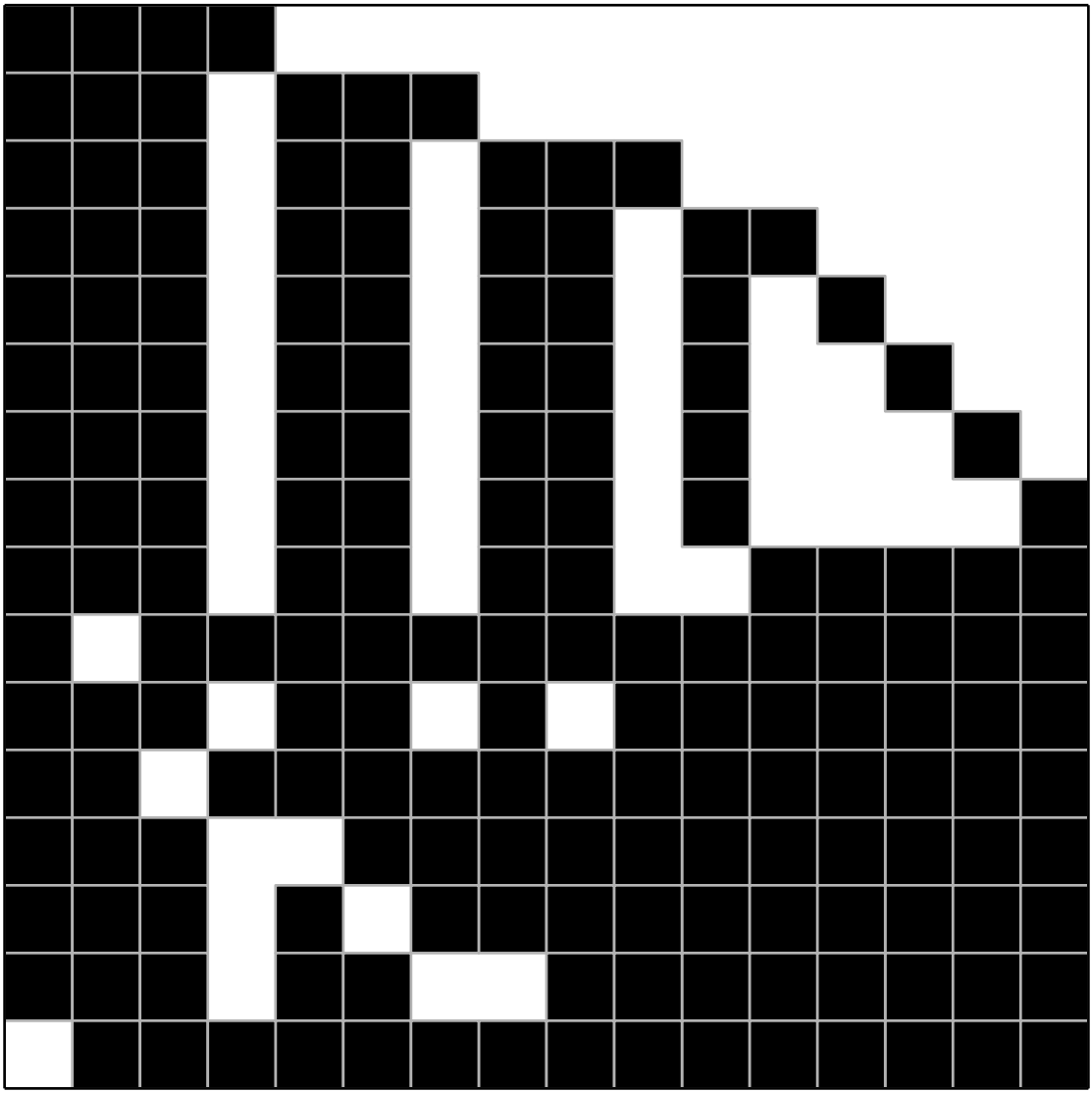
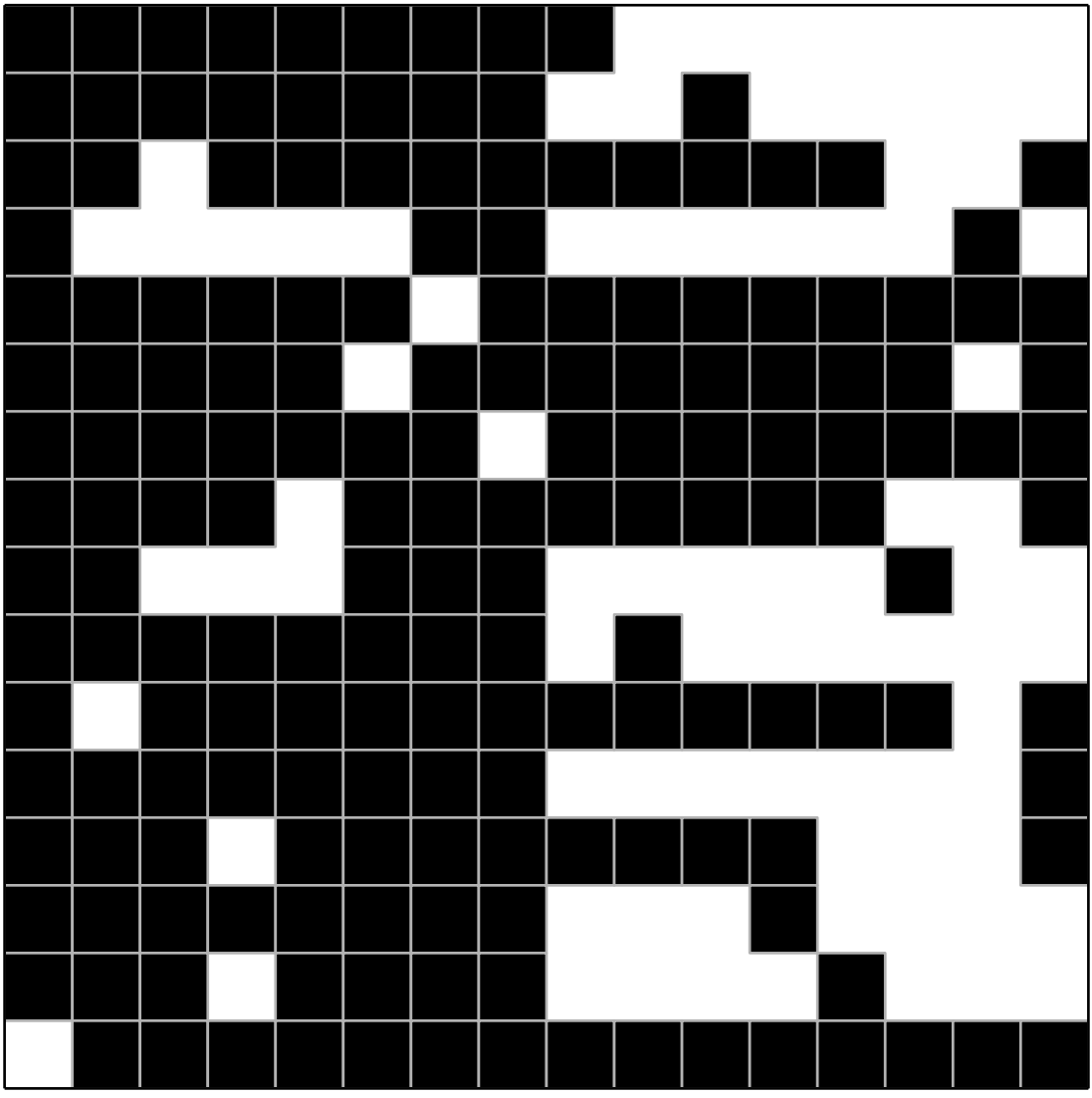


lib3_eco9-05 16x16 (174) con: 8, var: 8



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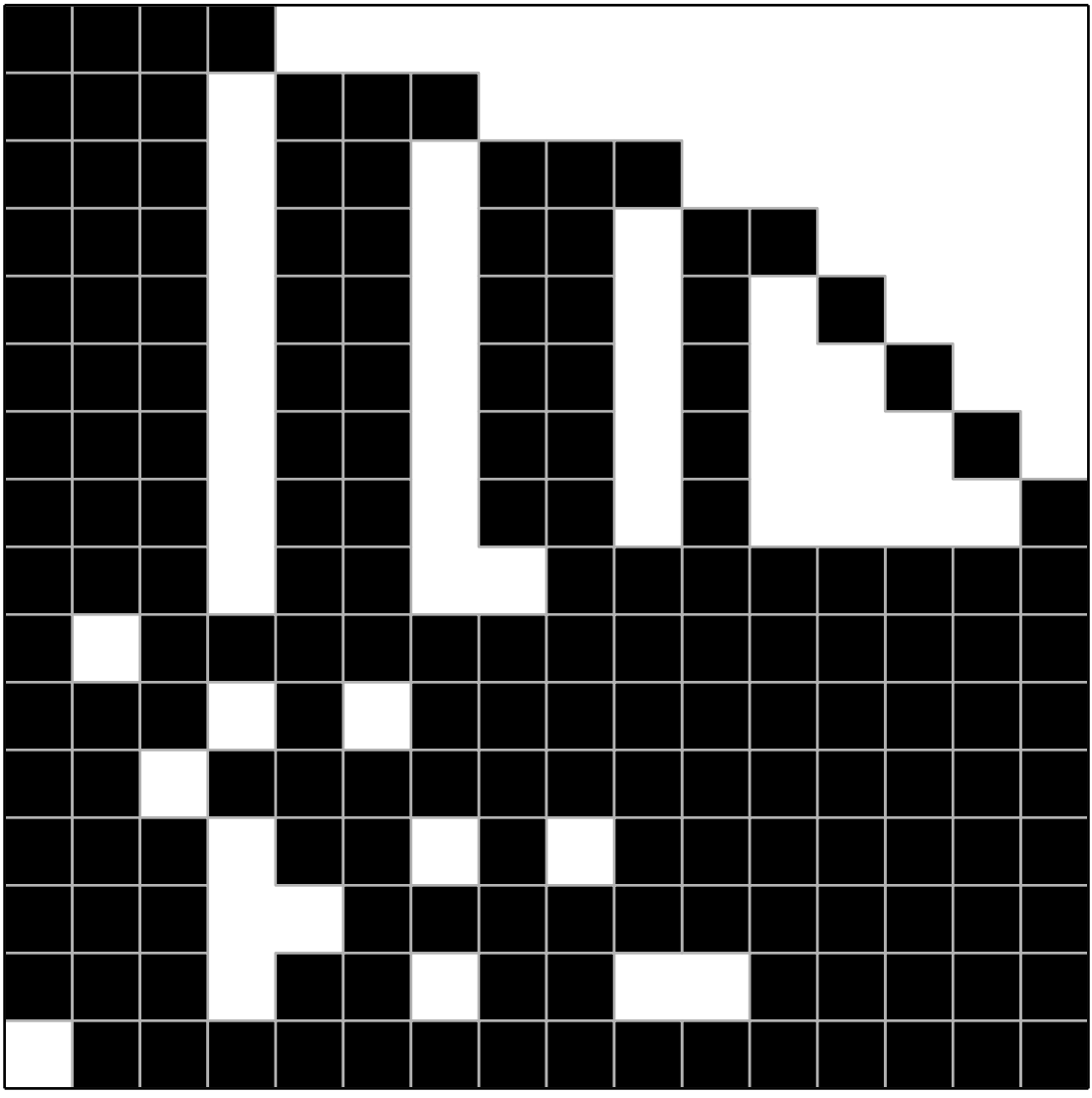

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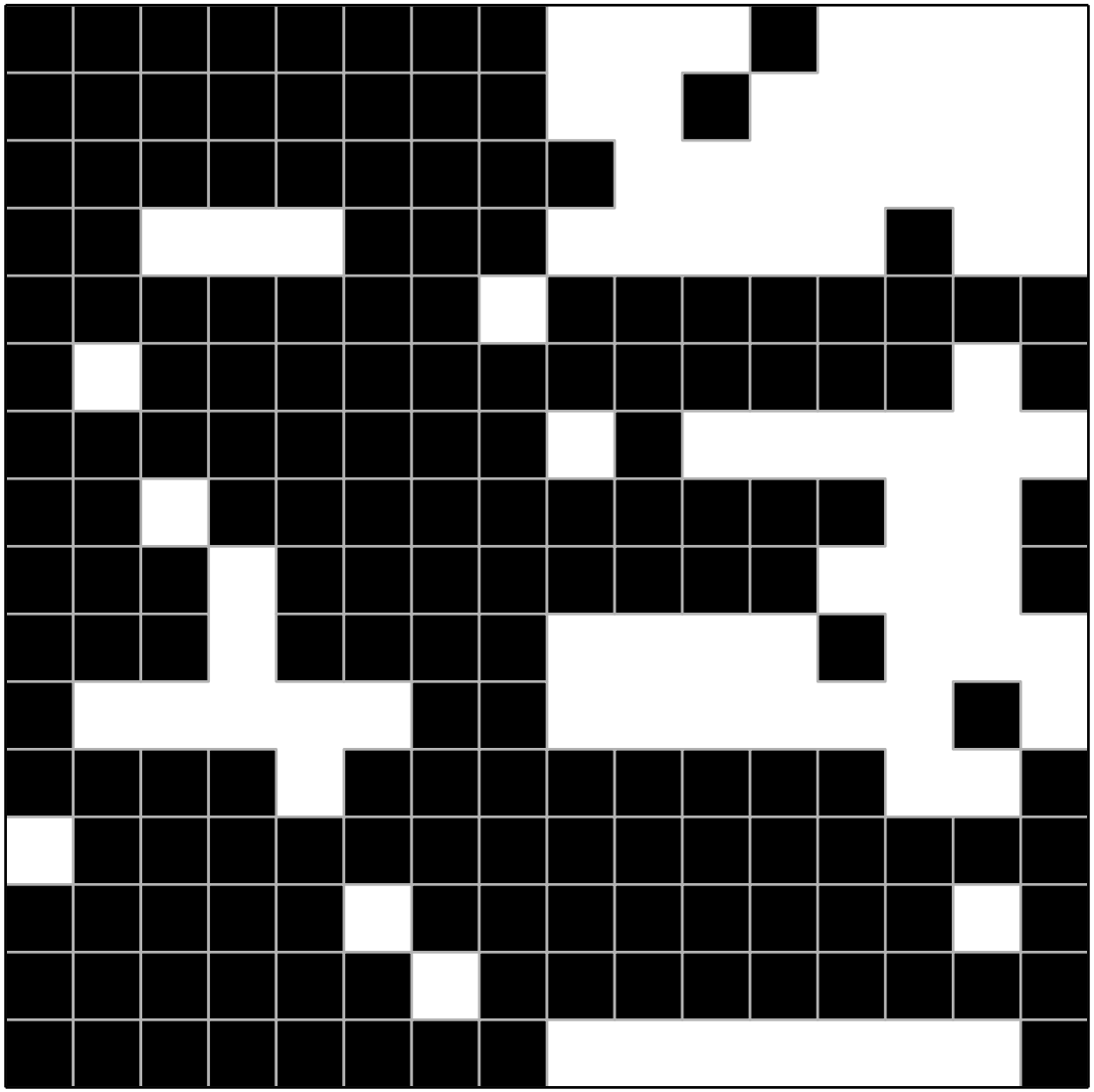

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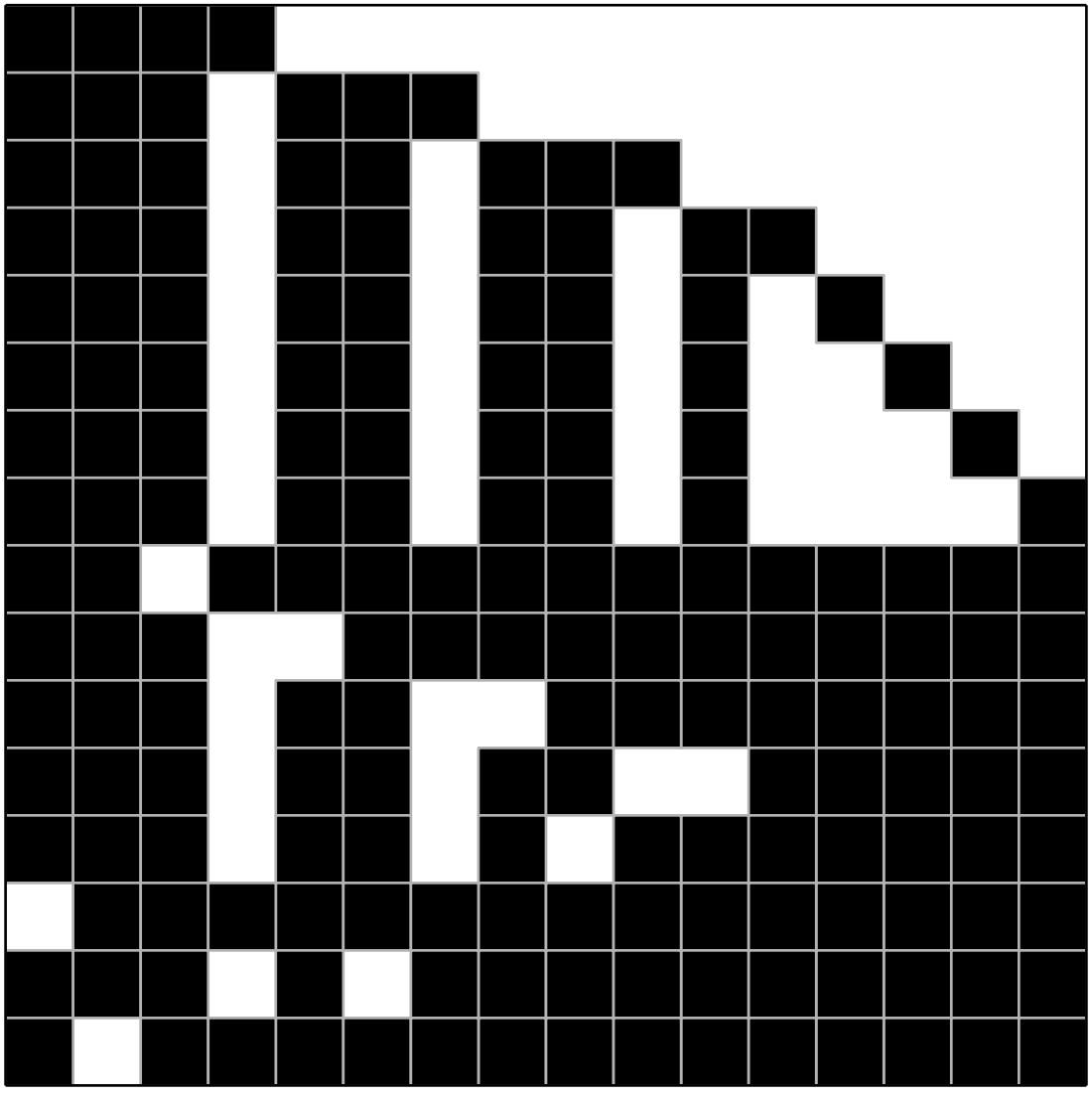
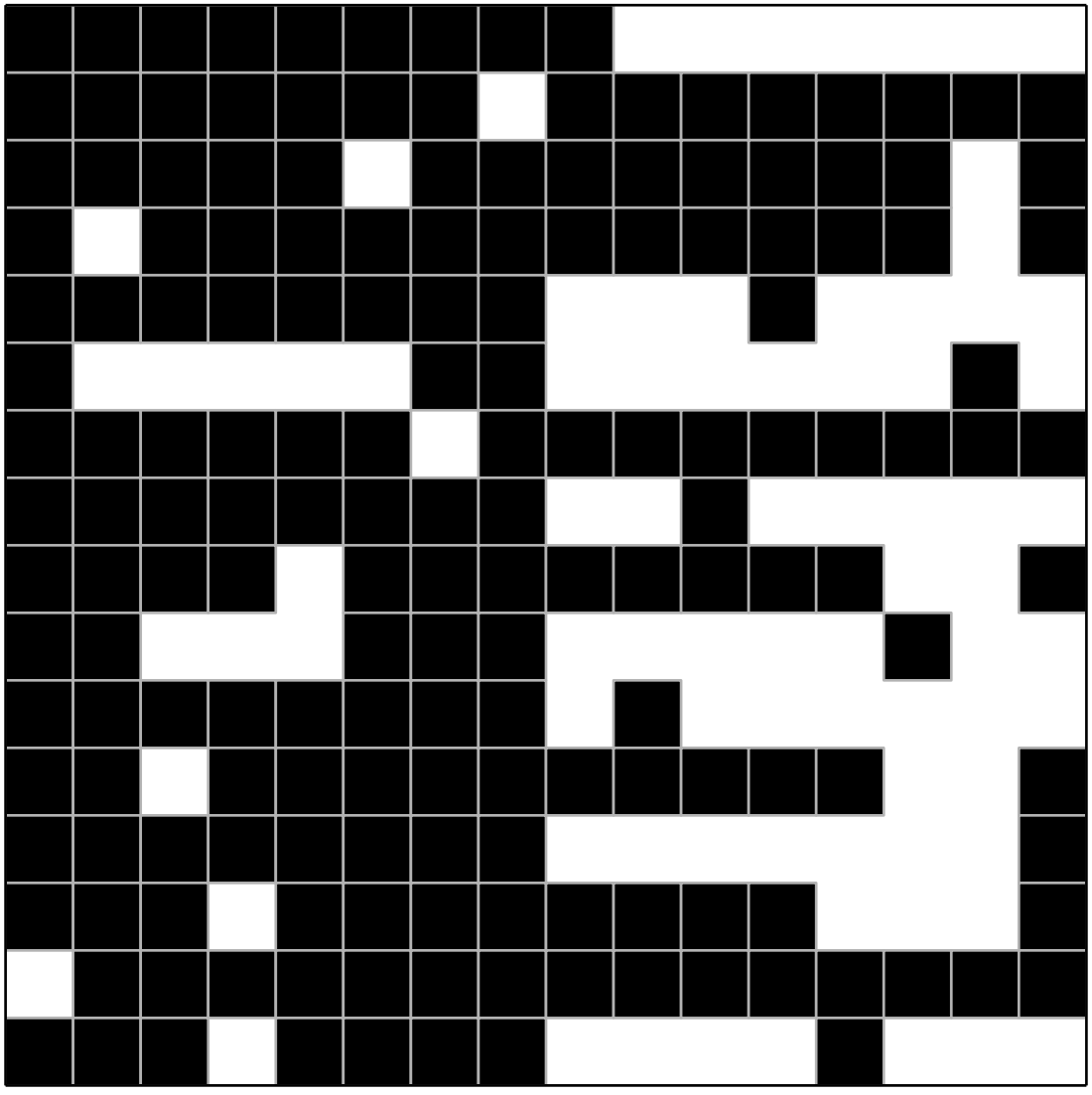


lib3_eco9-07 16x16 (174) con: 8, var: 8



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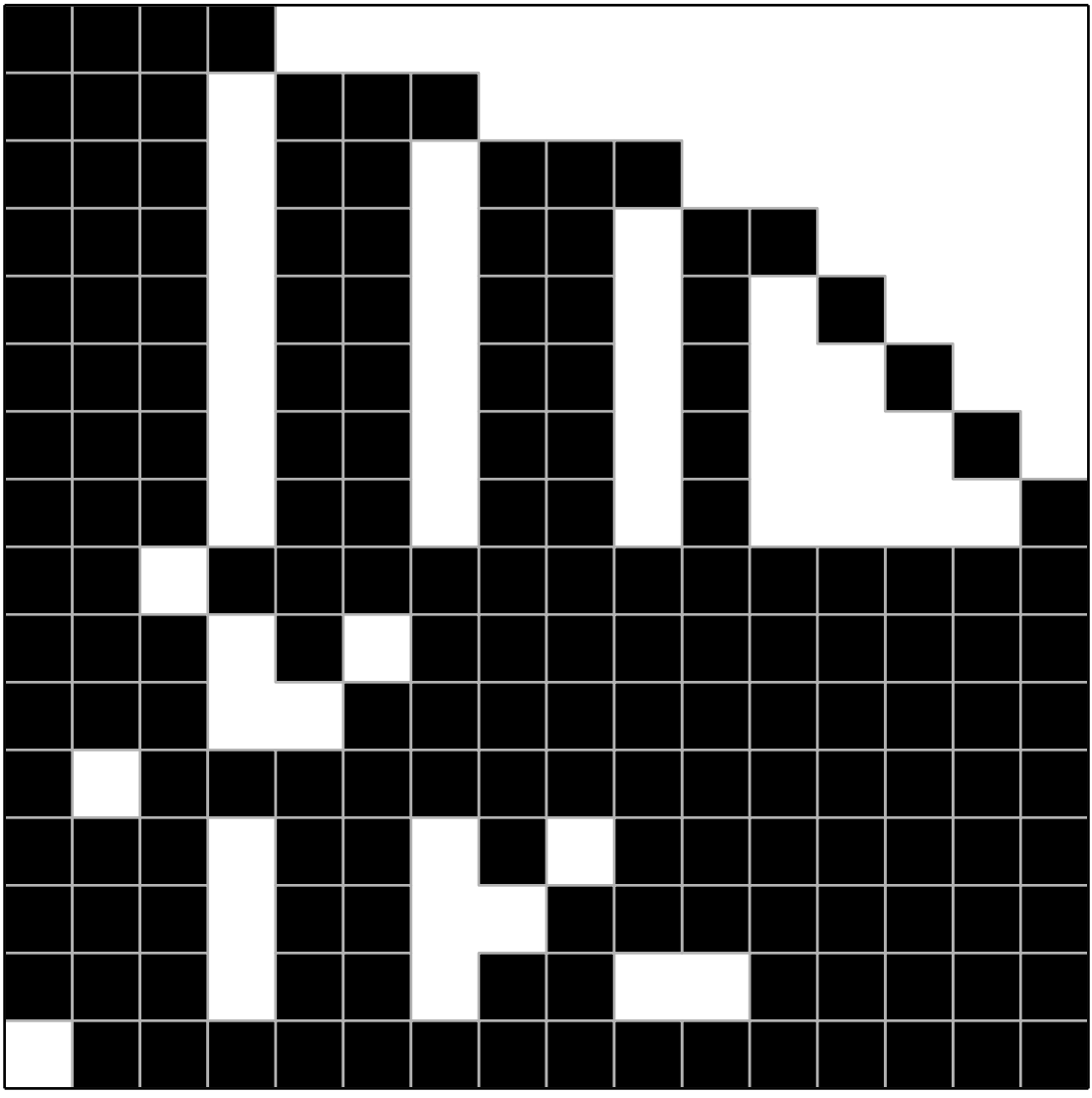
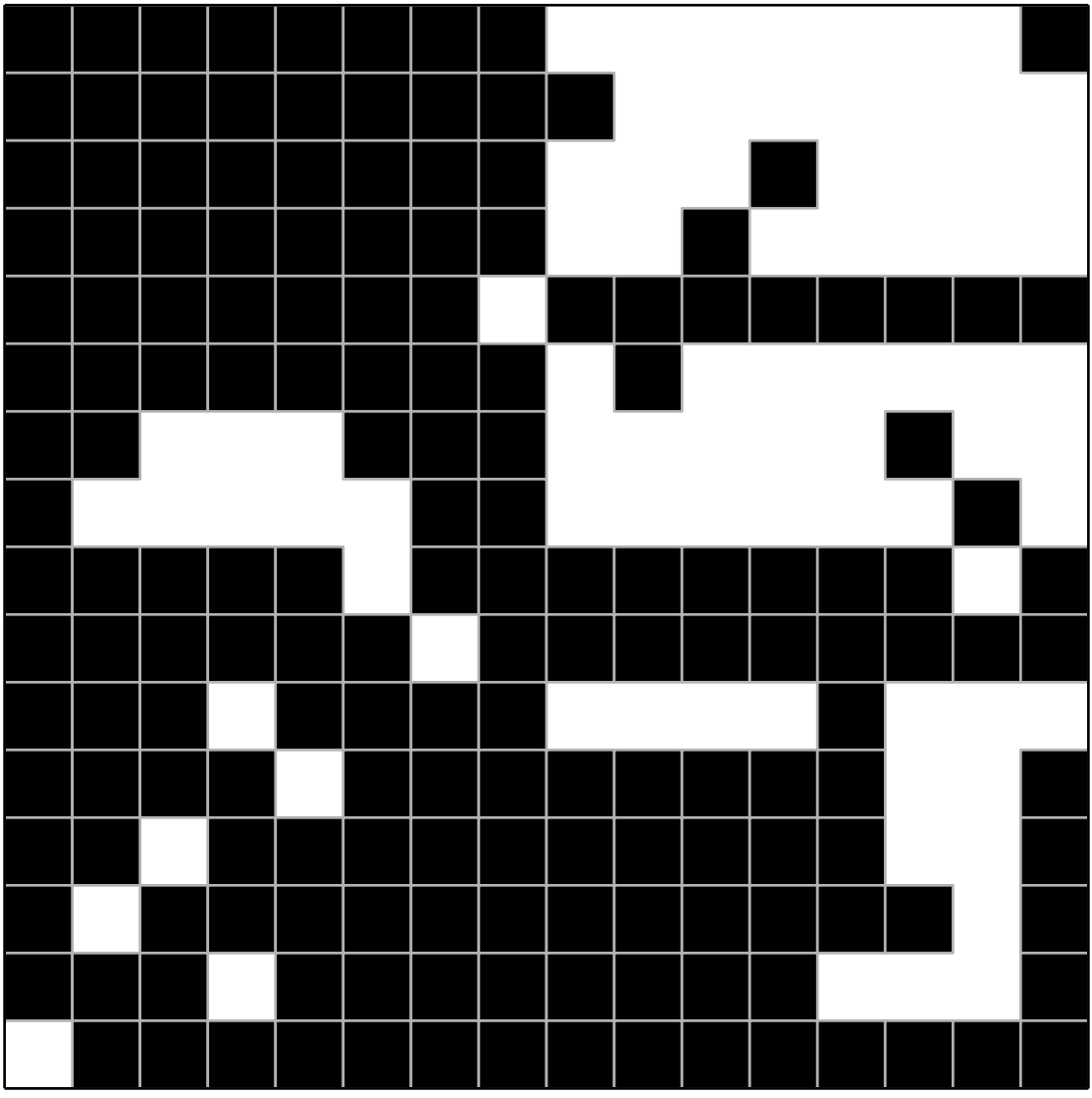


lib3_eco9-08 16x16 (174) con: 8, var: 8



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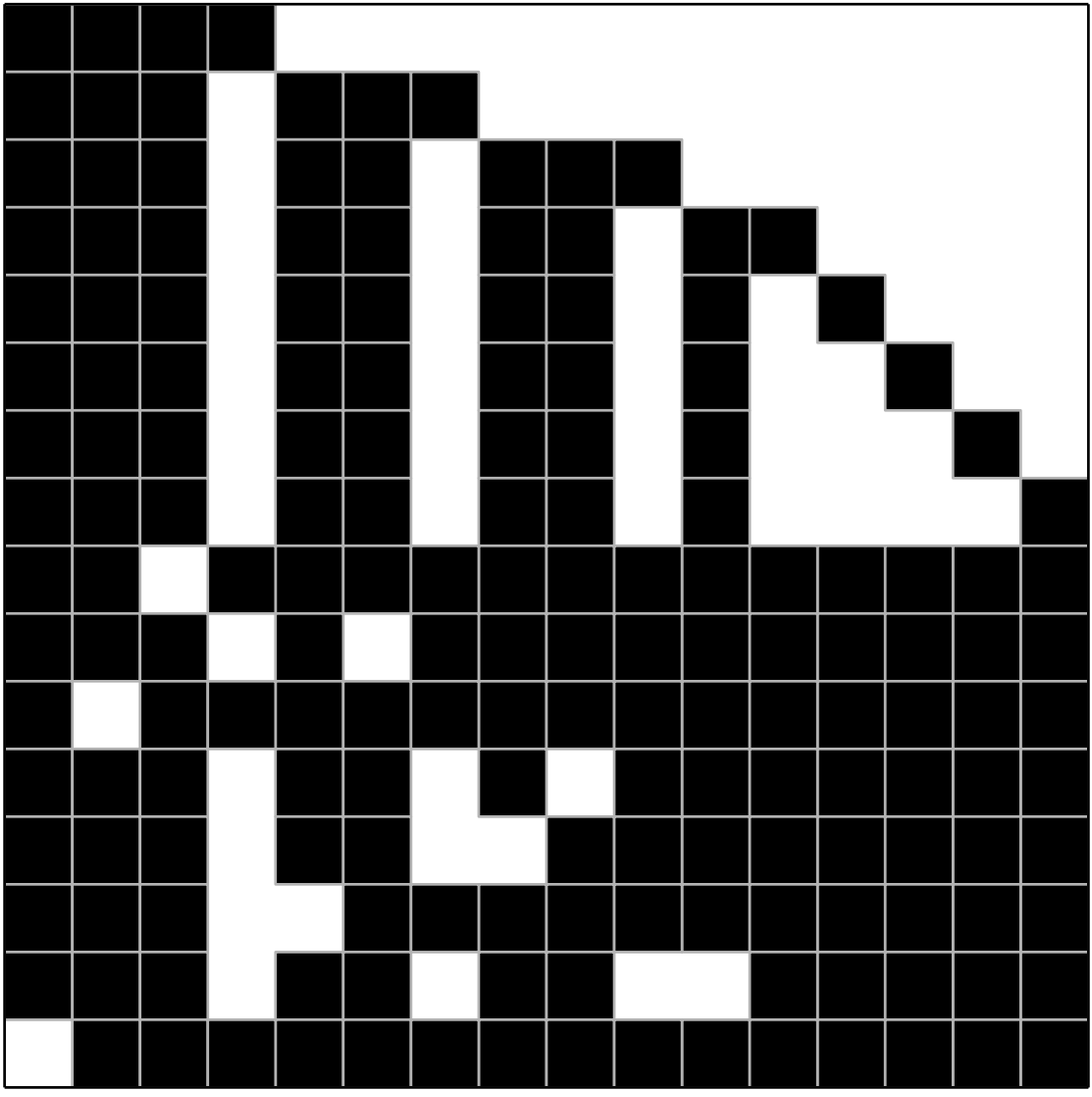

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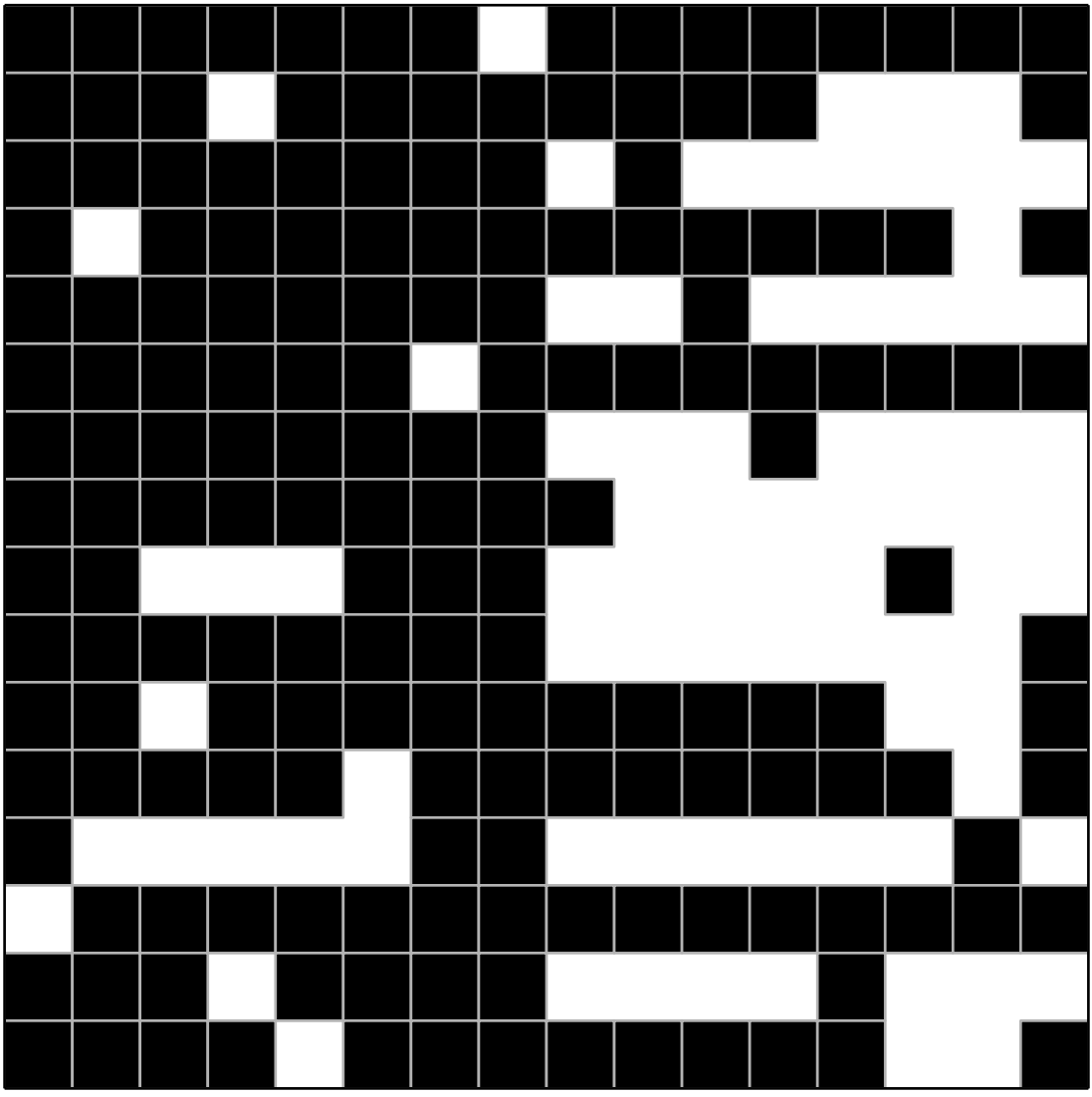

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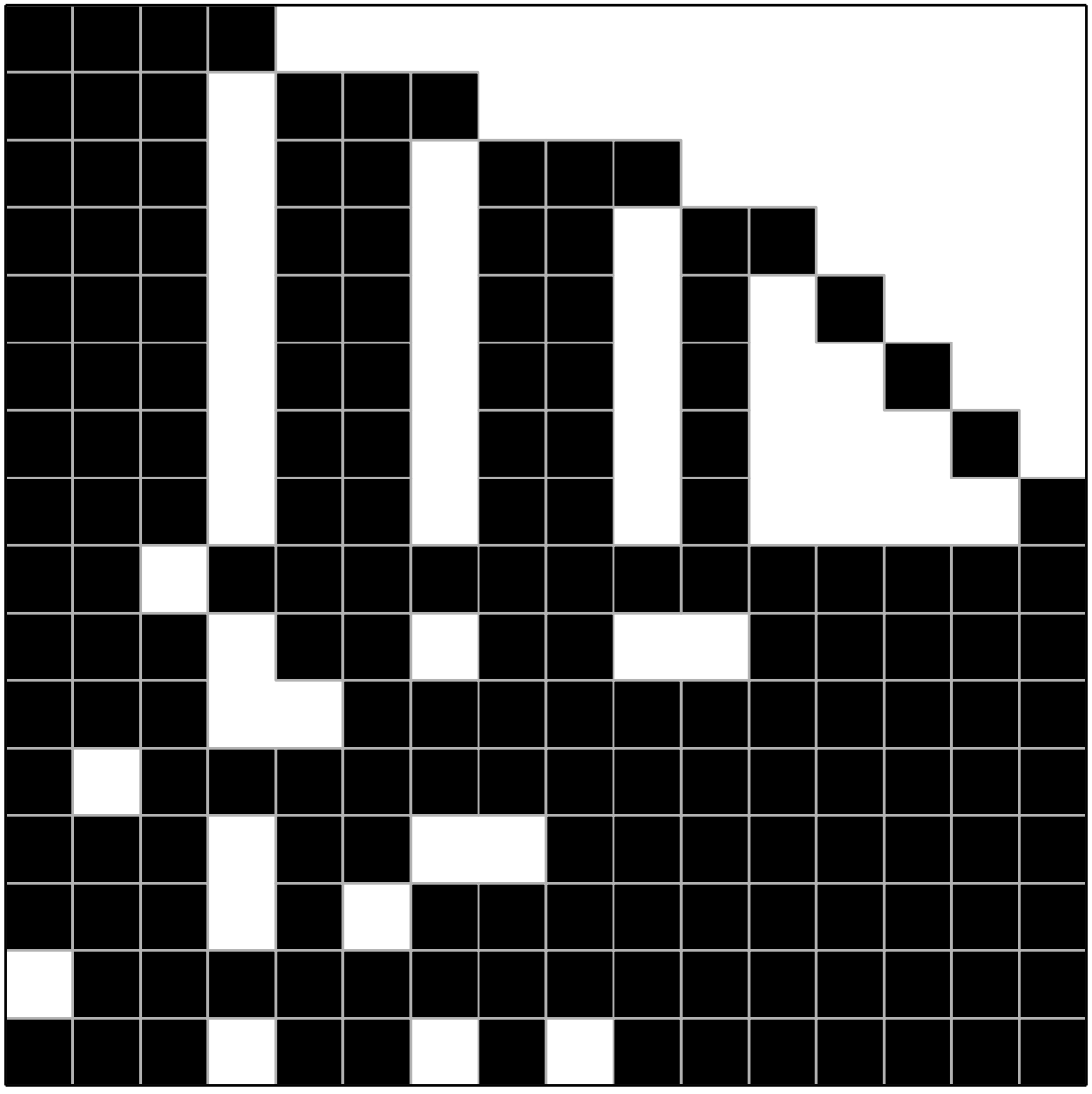
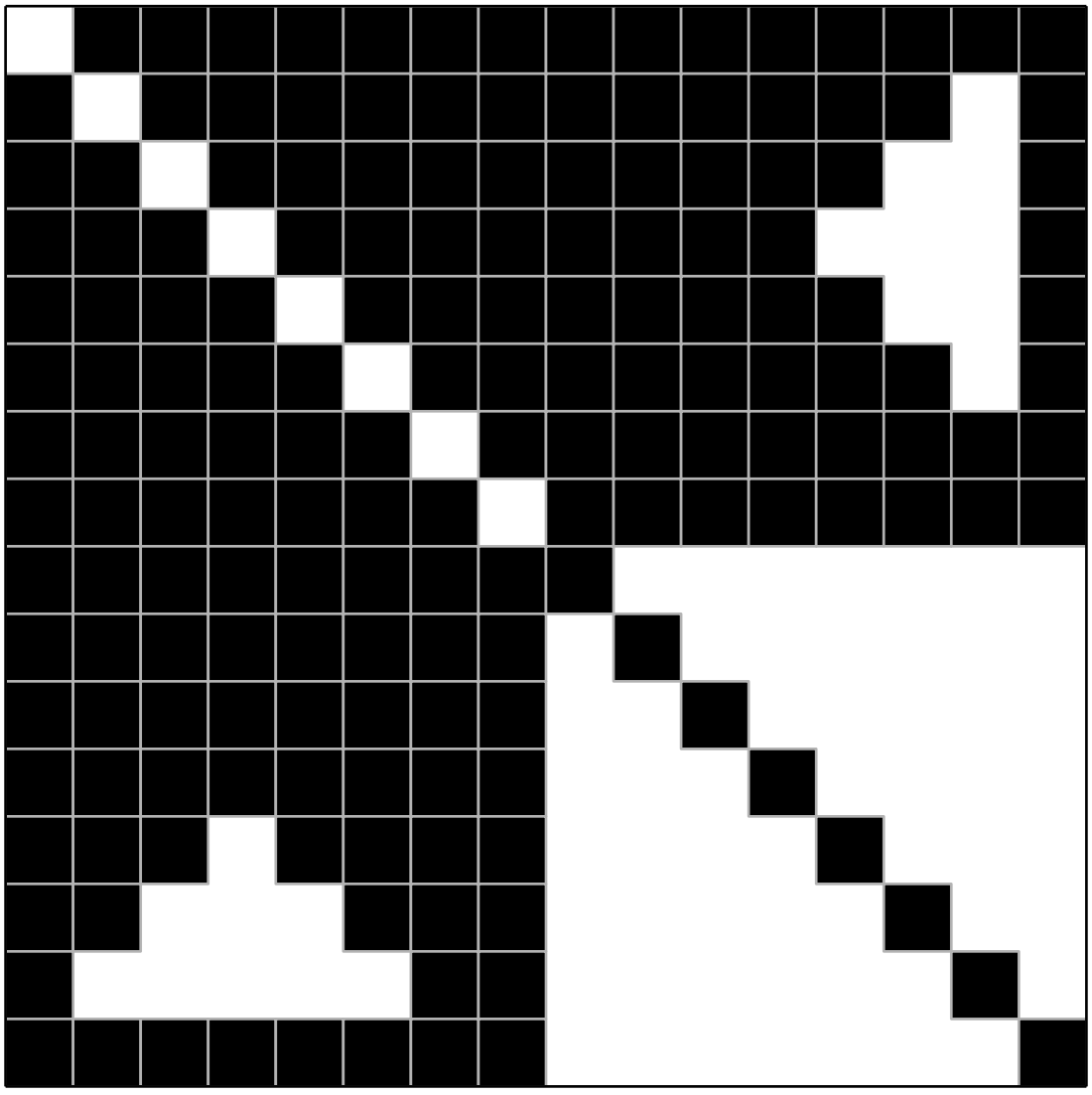
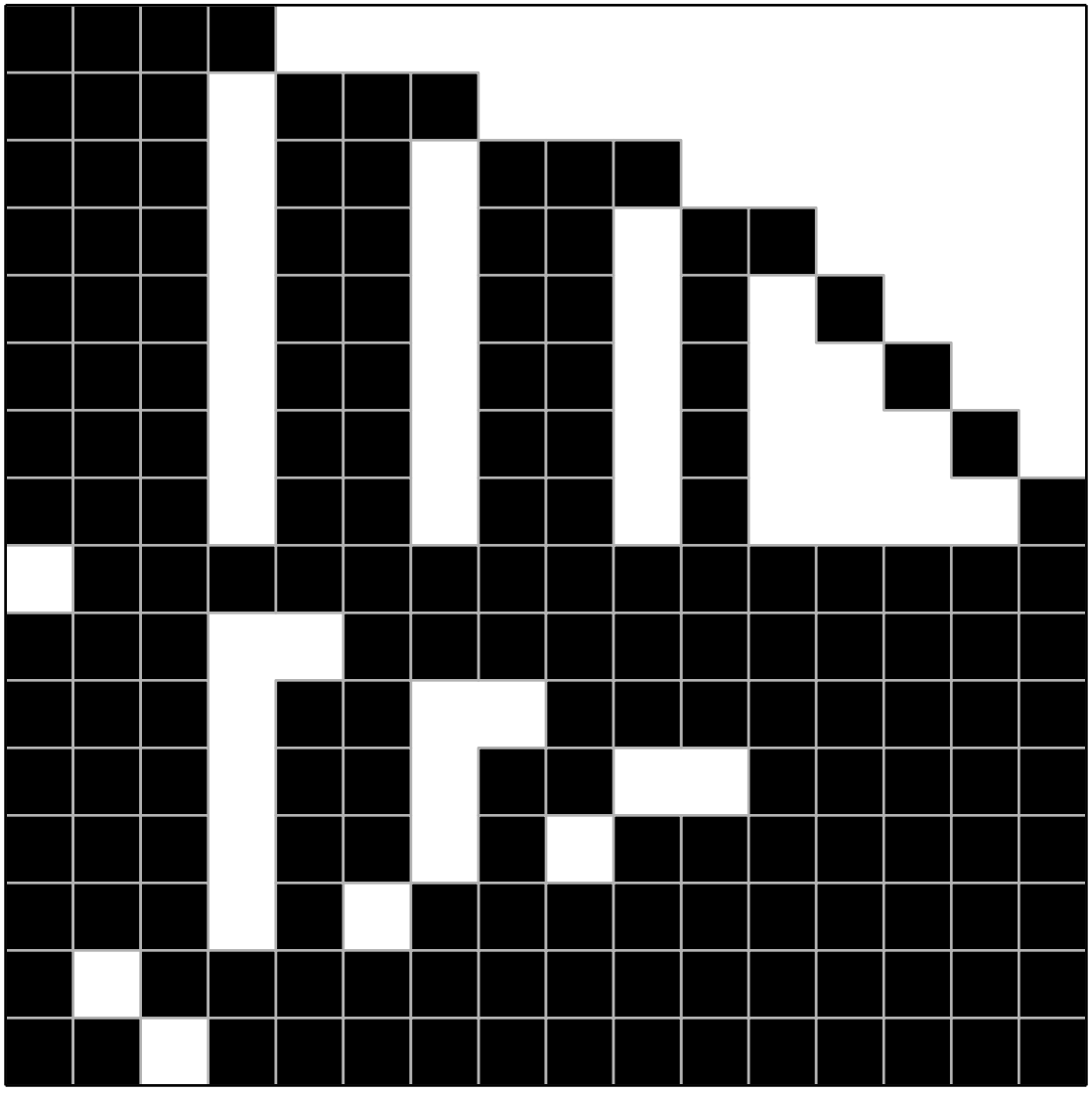



lib3_eco9-IN 16x16 (174) con: 8, var: 8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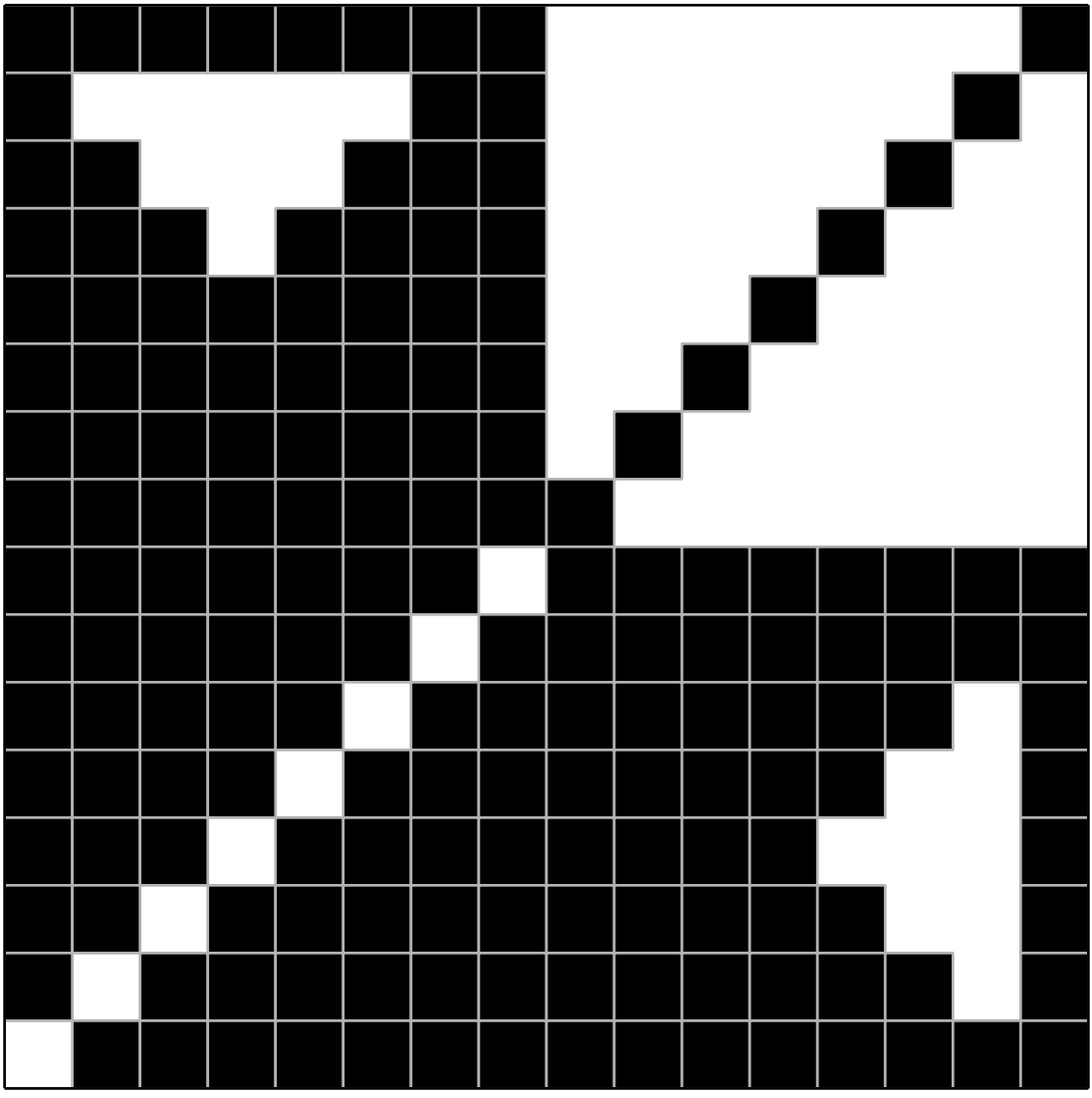
lib3_eco9-RE 16x16 (174) con: 8, var: 8



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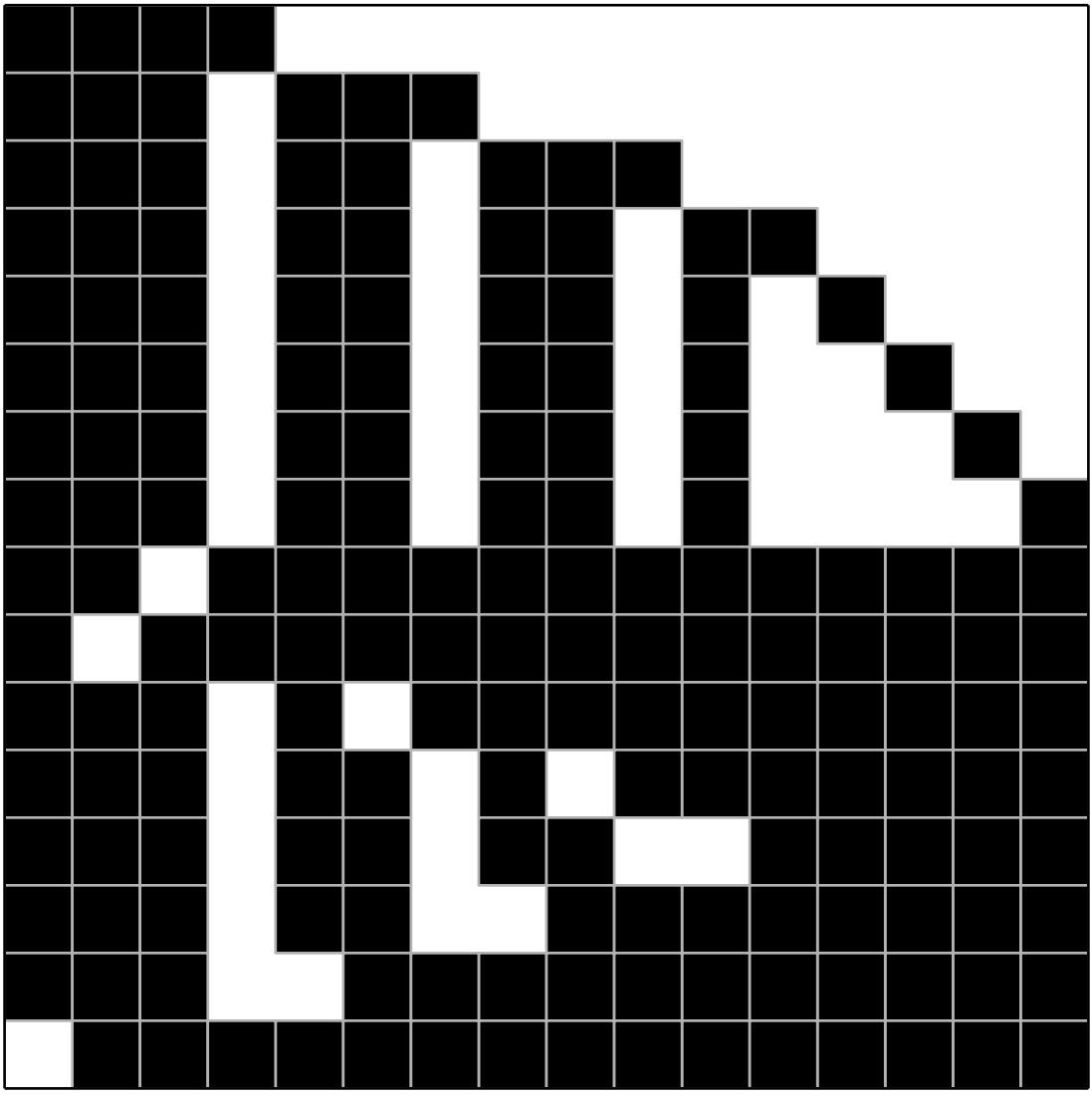
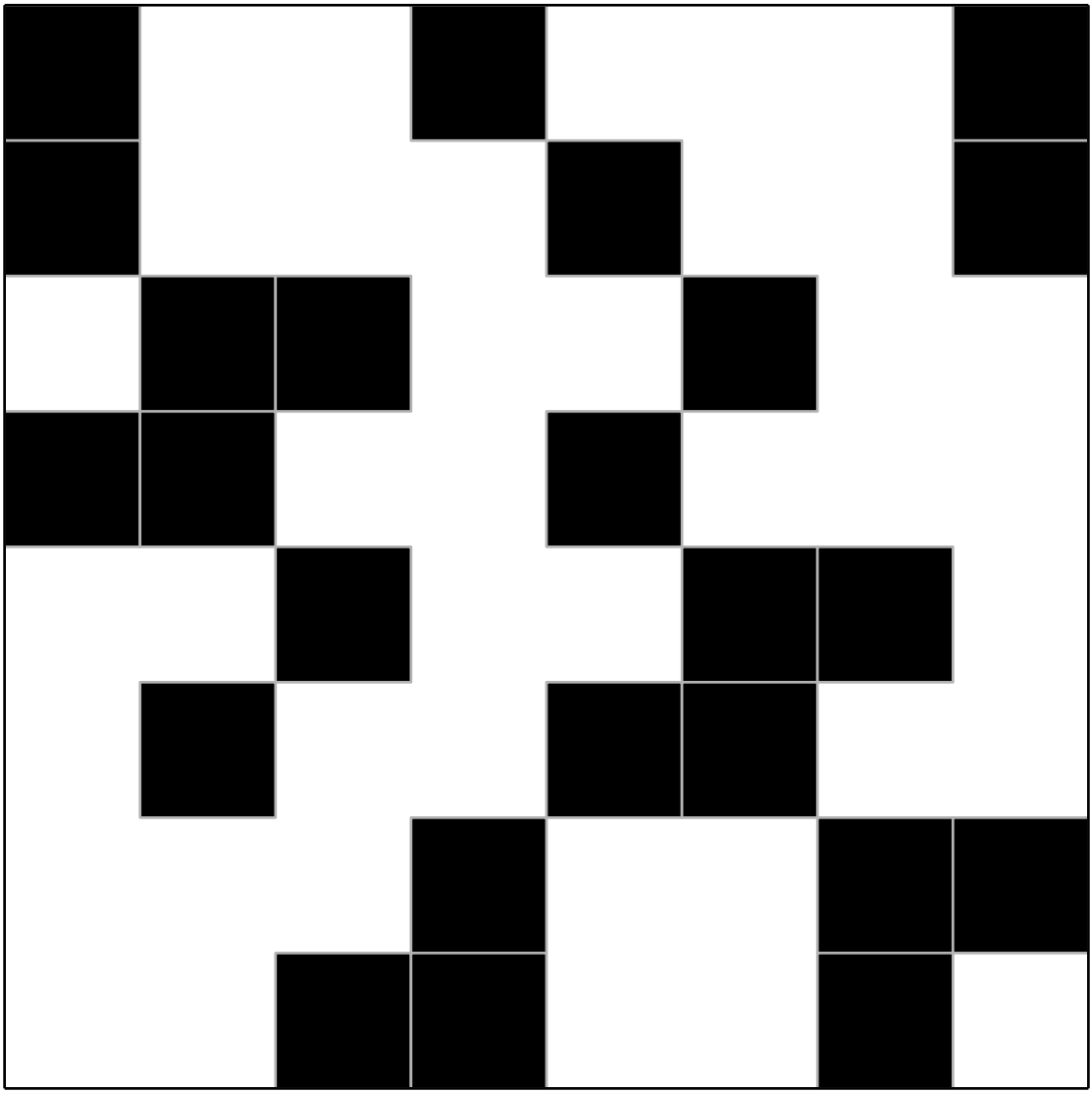
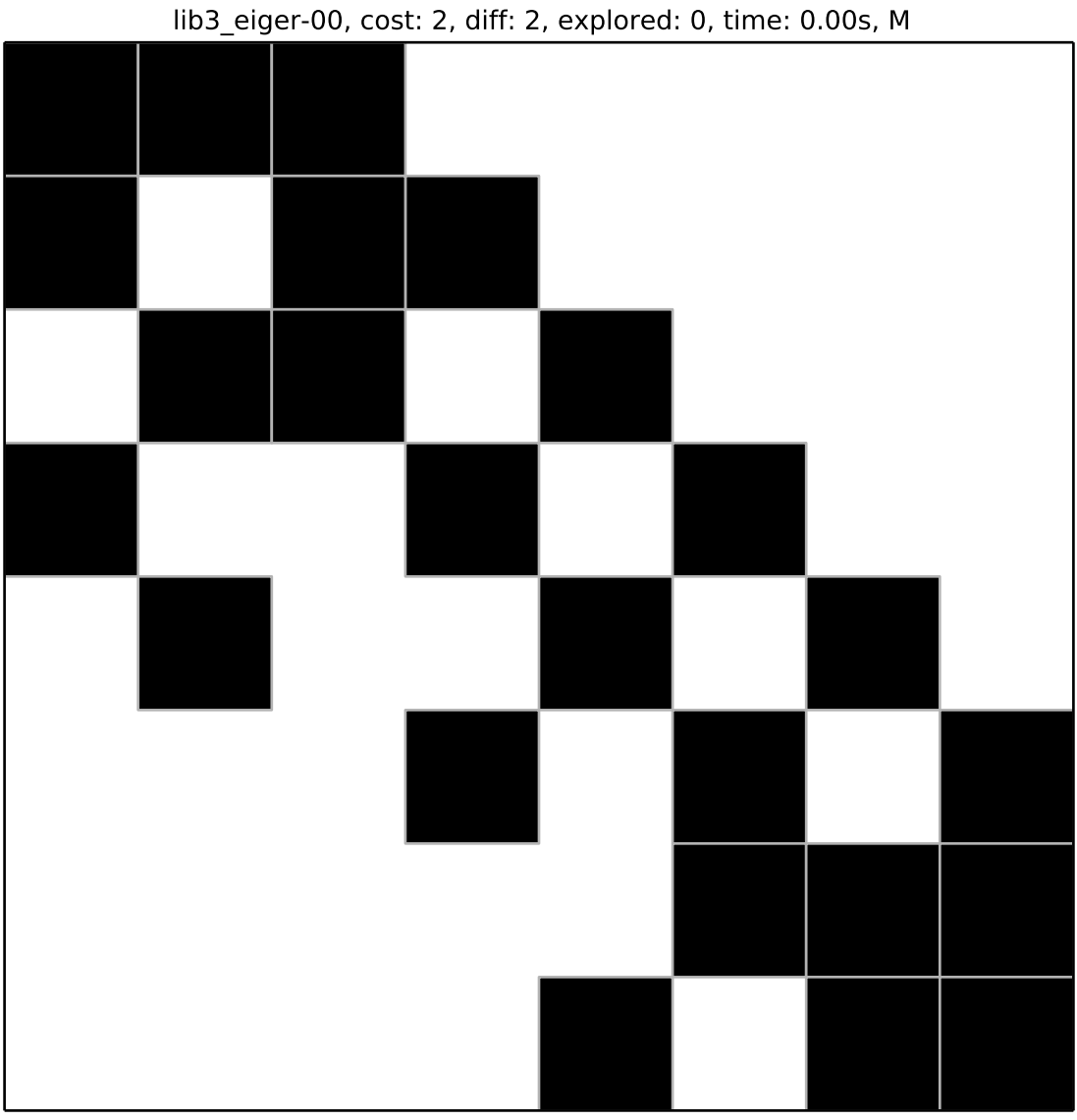
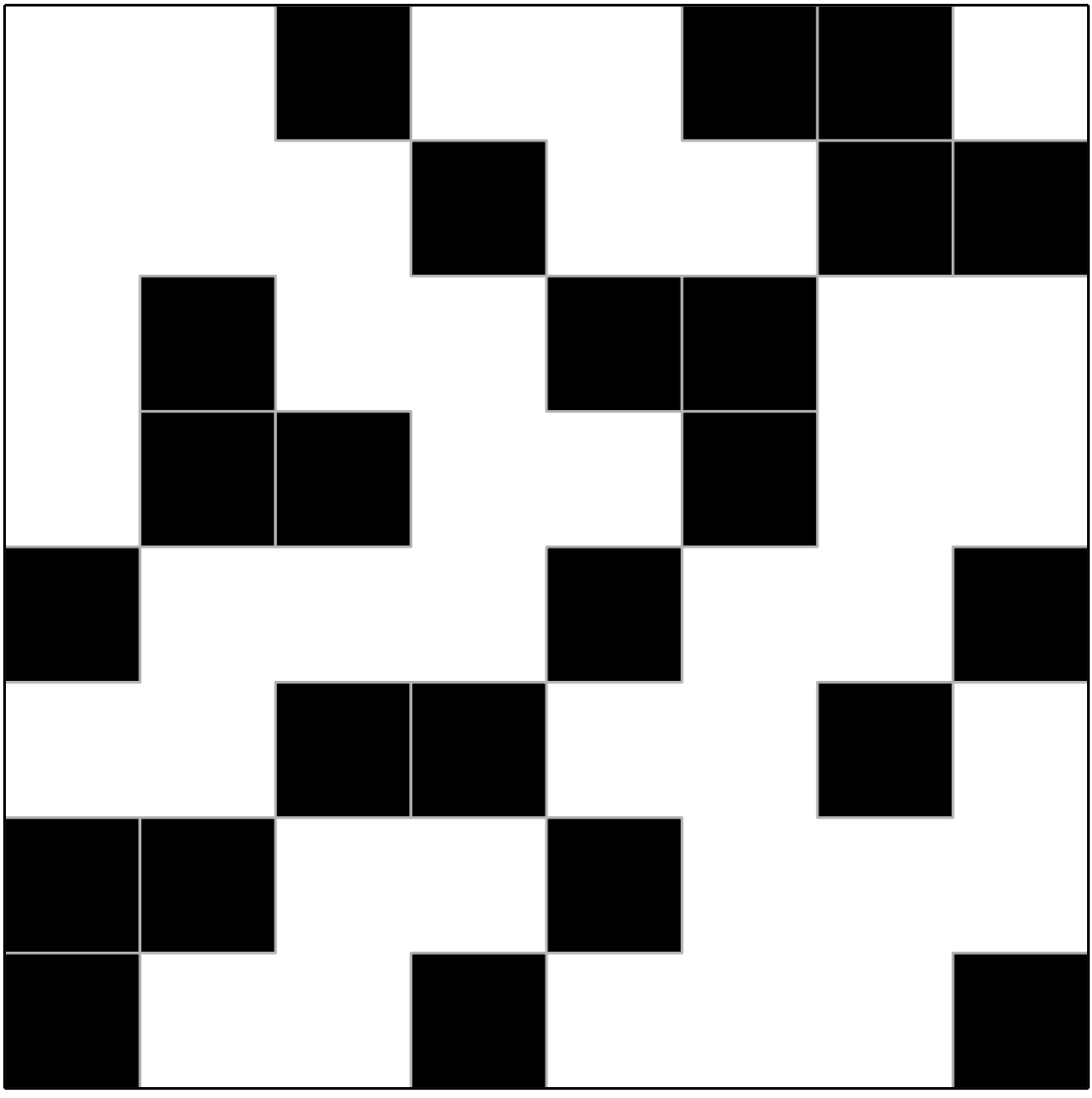


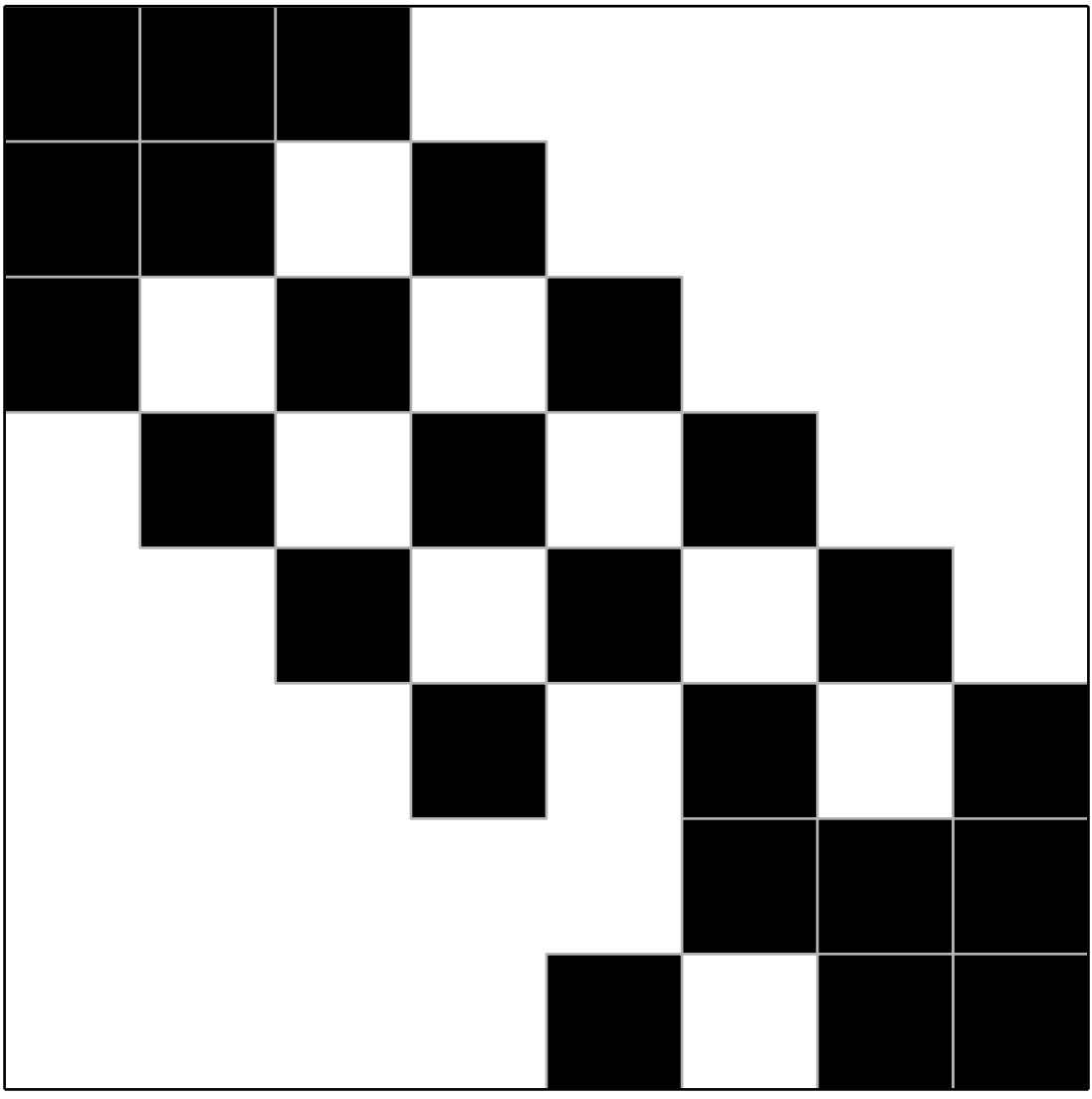
lib3_eiger-00 8x8 (24) con: 4, var: 4




lib3_eiger-00, cost: 2, diff: 2, explored: 0, time: 0.00s, M

lib3_eiger-01 8x8 (24) con: 4, var: 4

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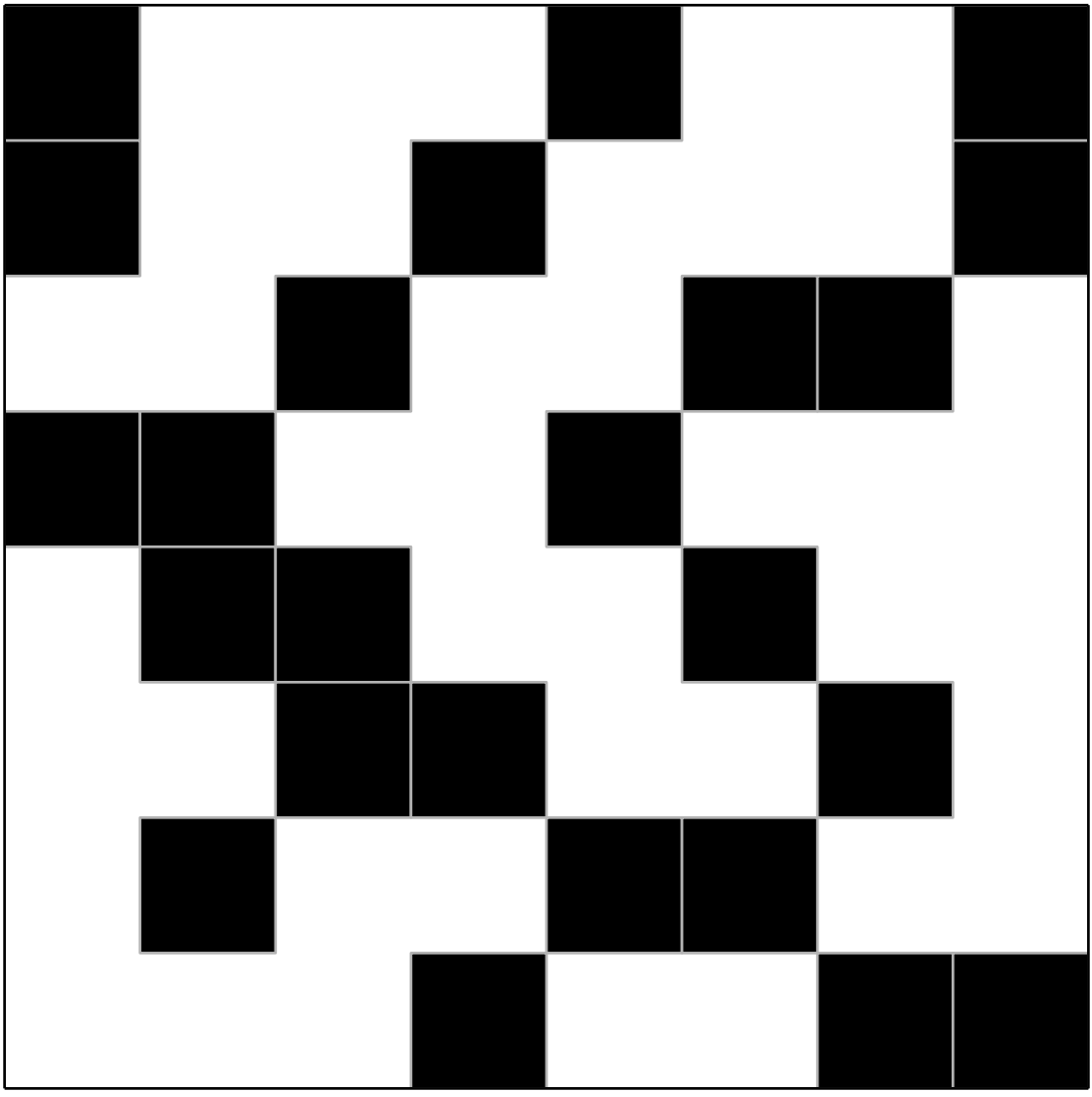
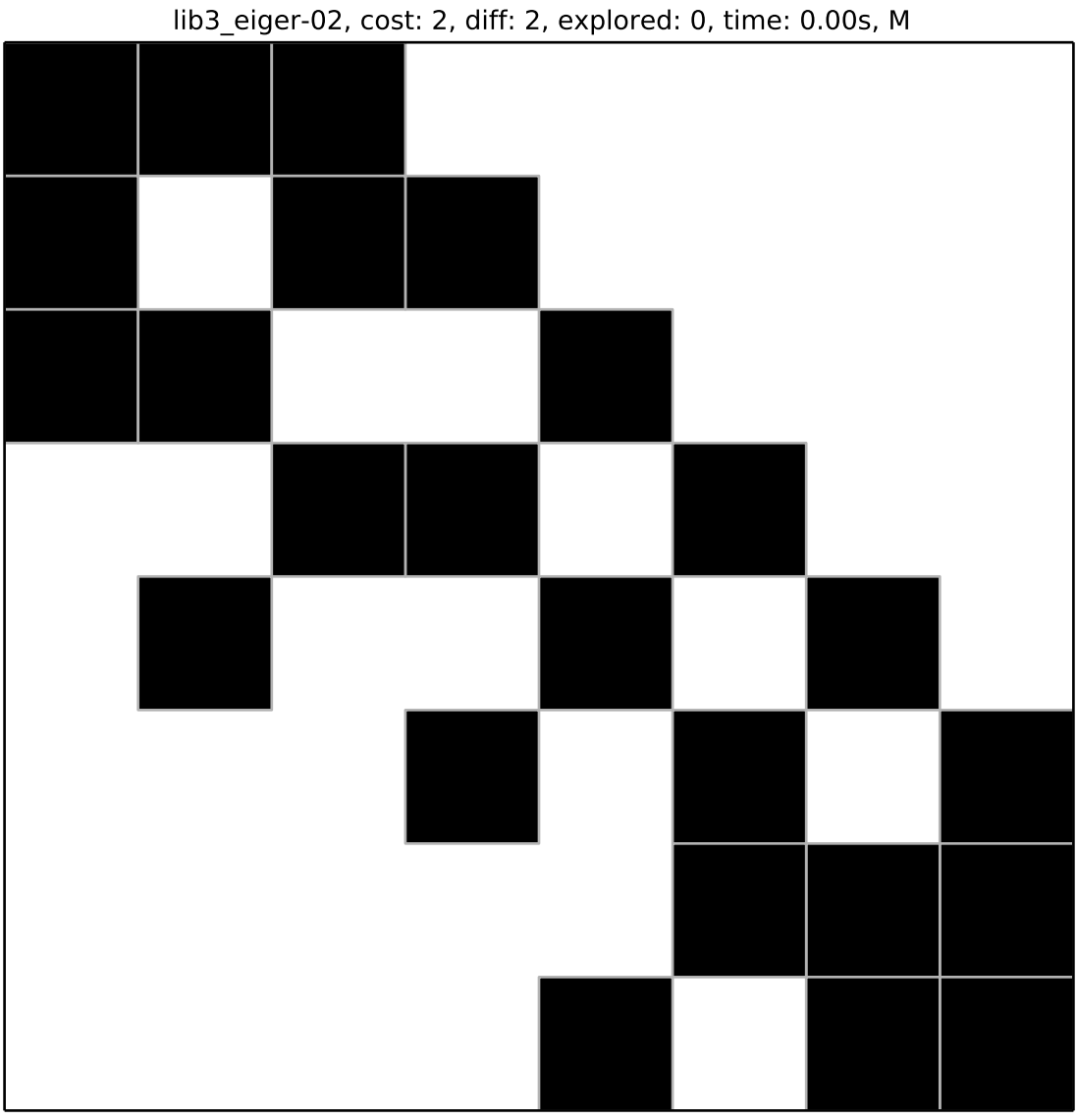
lib3_eiger-02 8x8 (24) con: 4, var: 4

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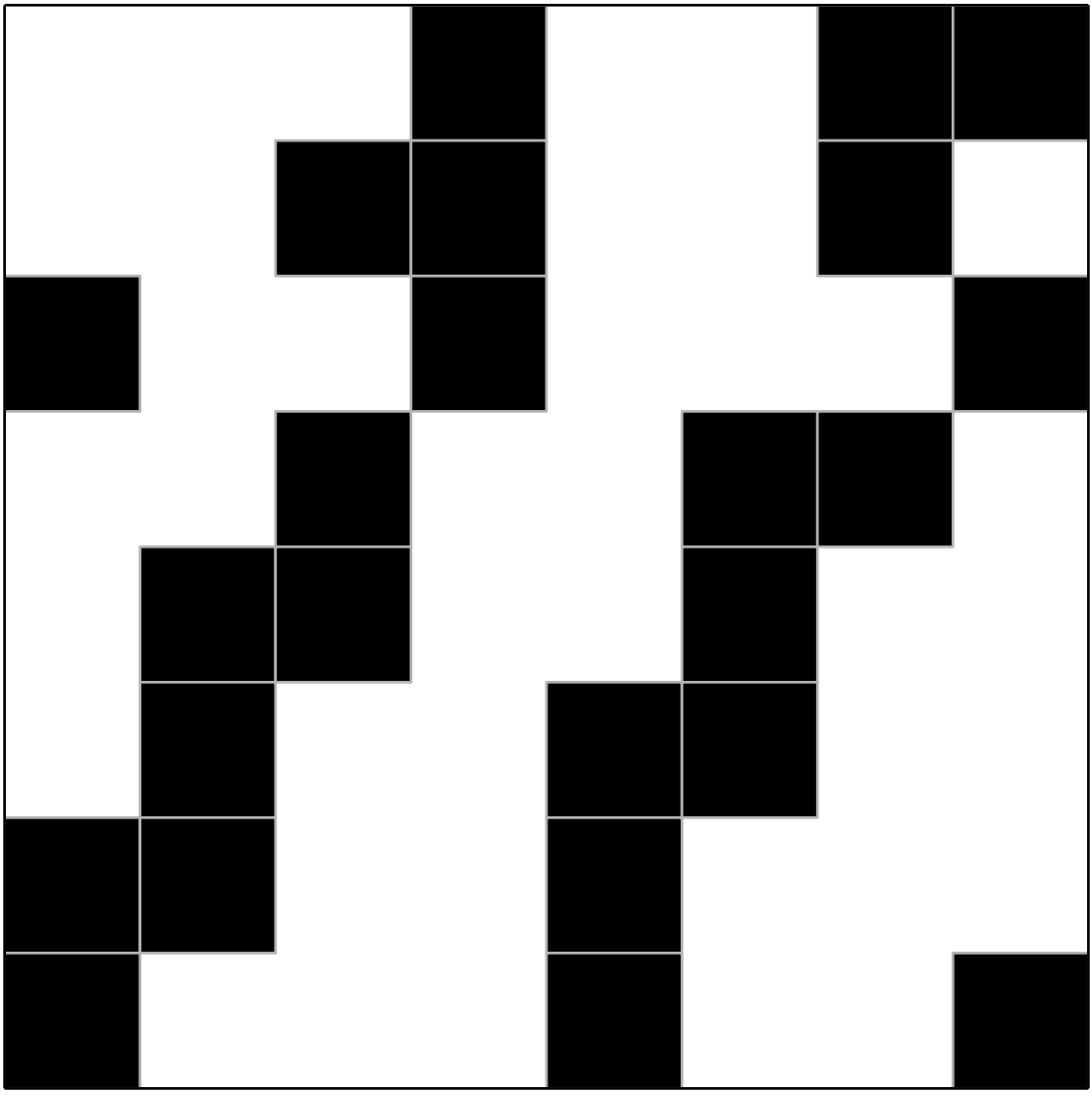
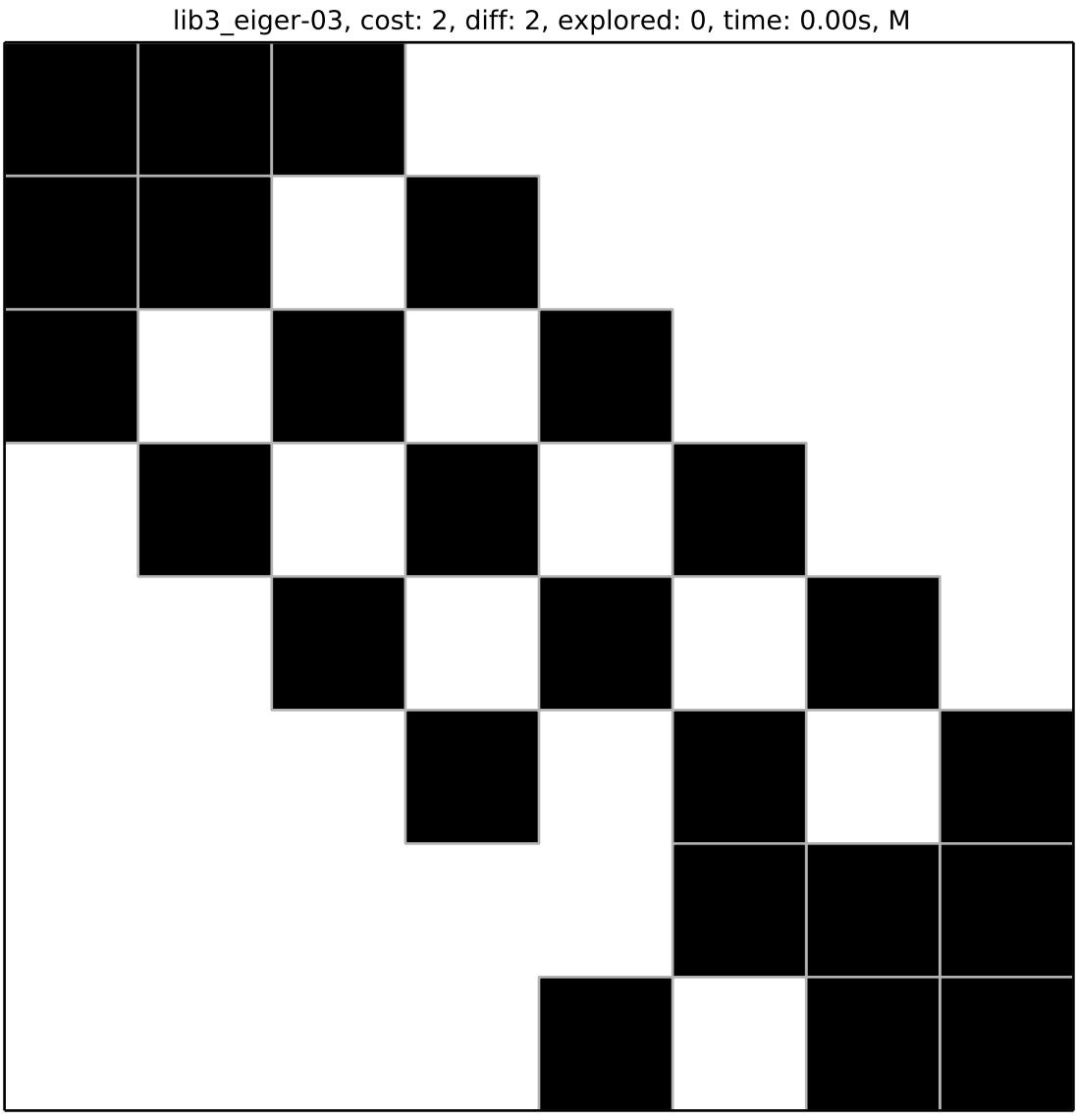
lib3_eiger-03 8x8 (24) con: 4, var: 4

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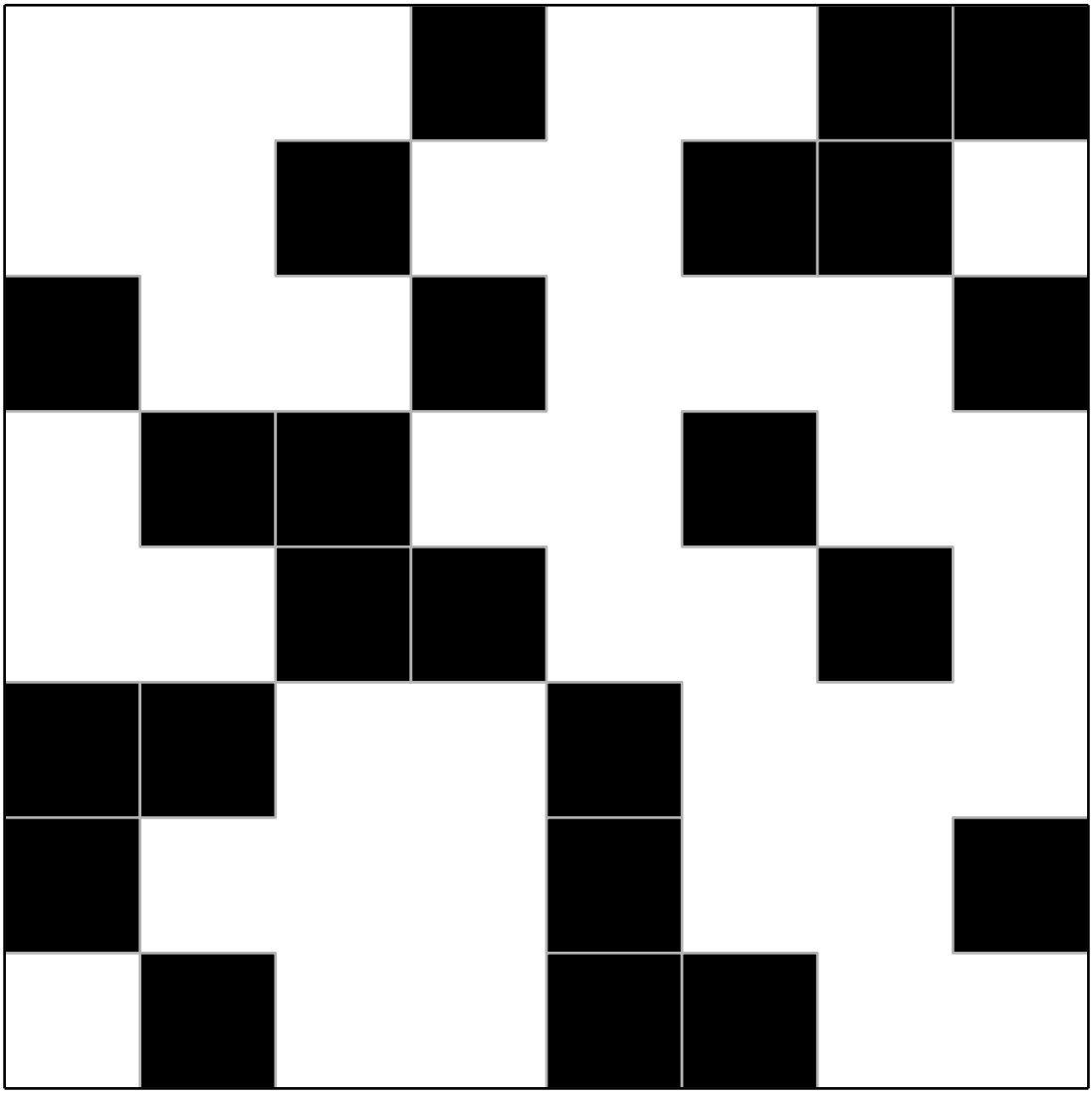
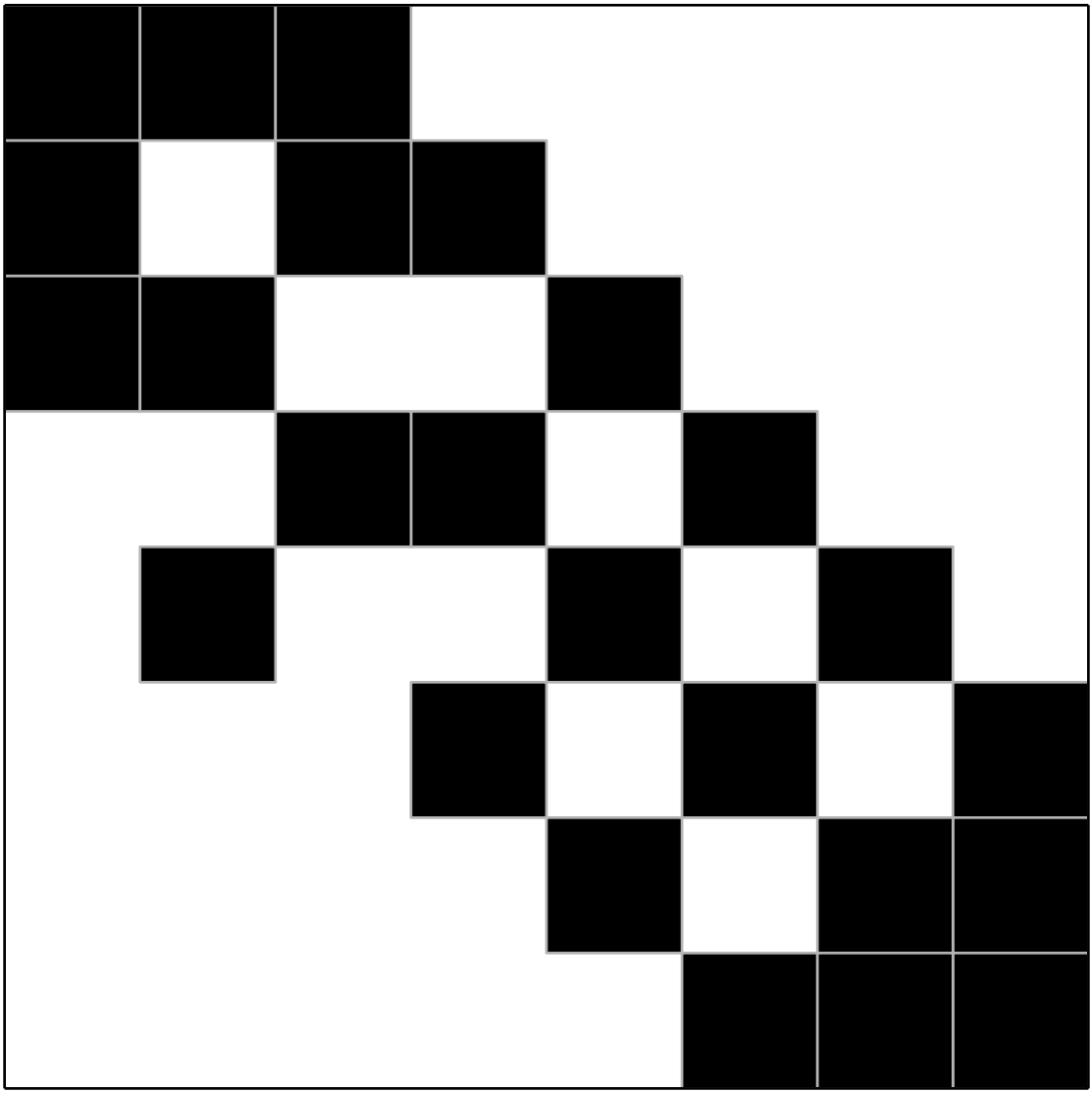
lib3_eiger-04 8x8 (24) con: 4, var: 4

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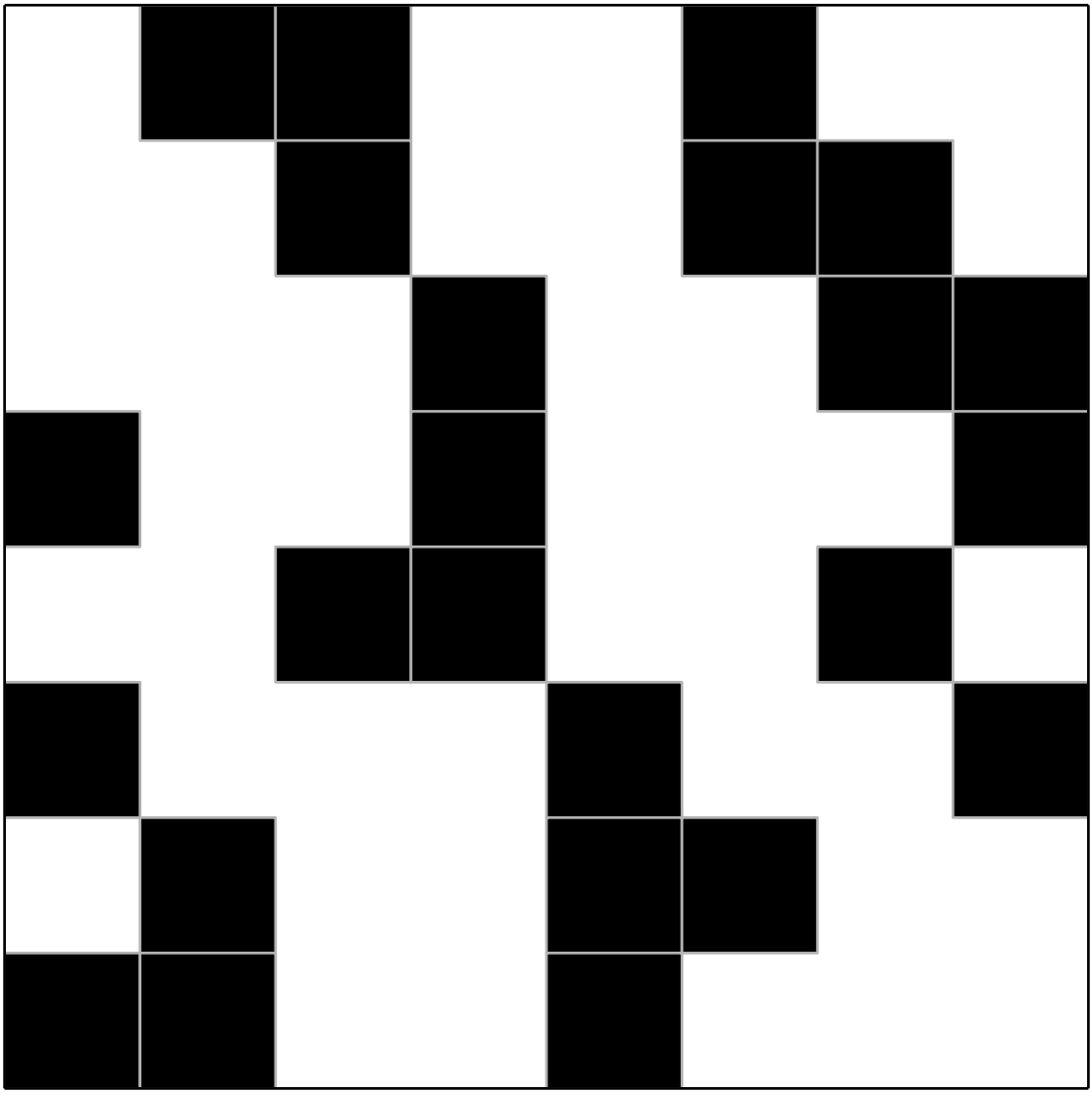
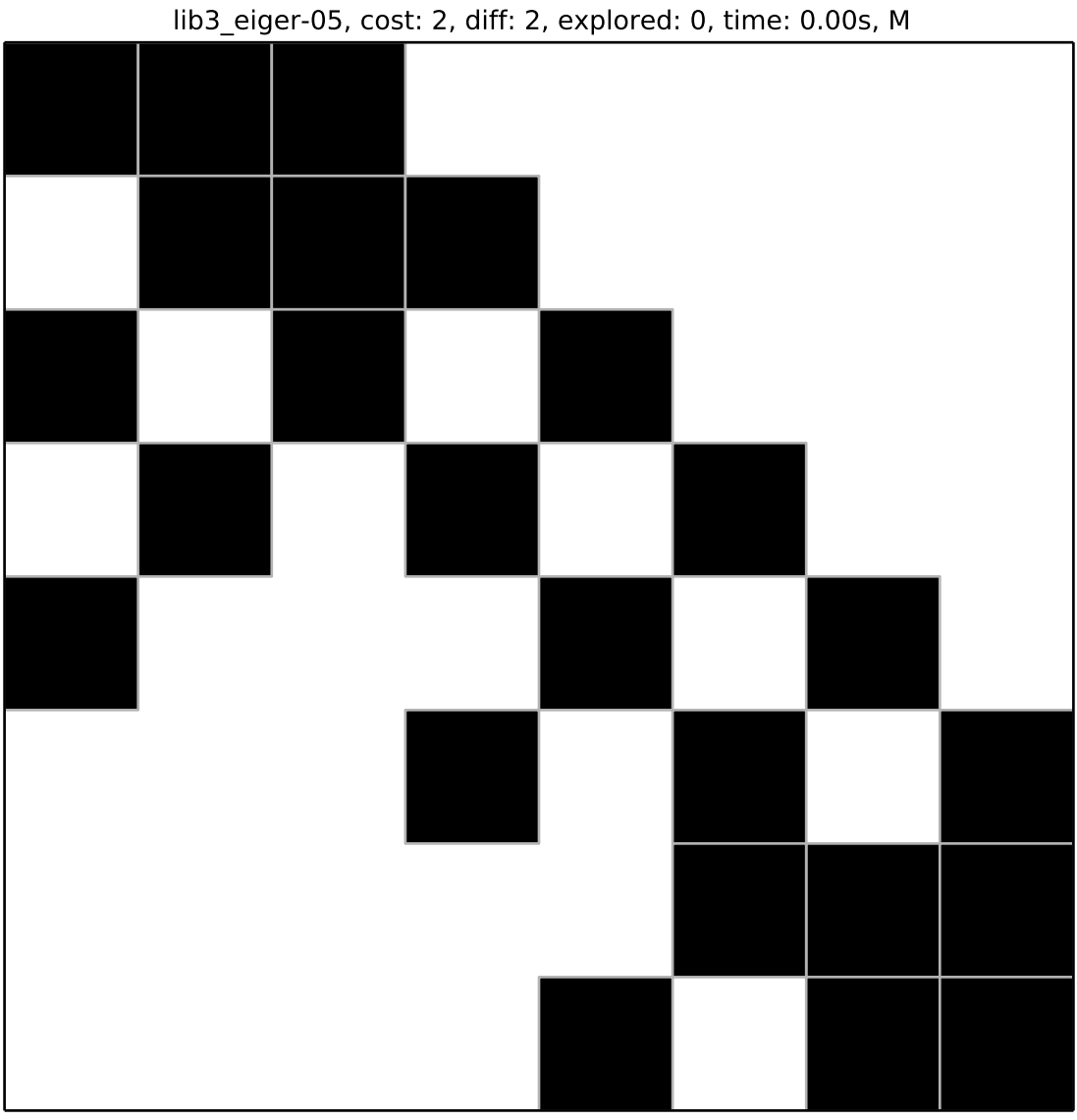
lib3_eiger-05 8x8 (24) con: 4, var: 4

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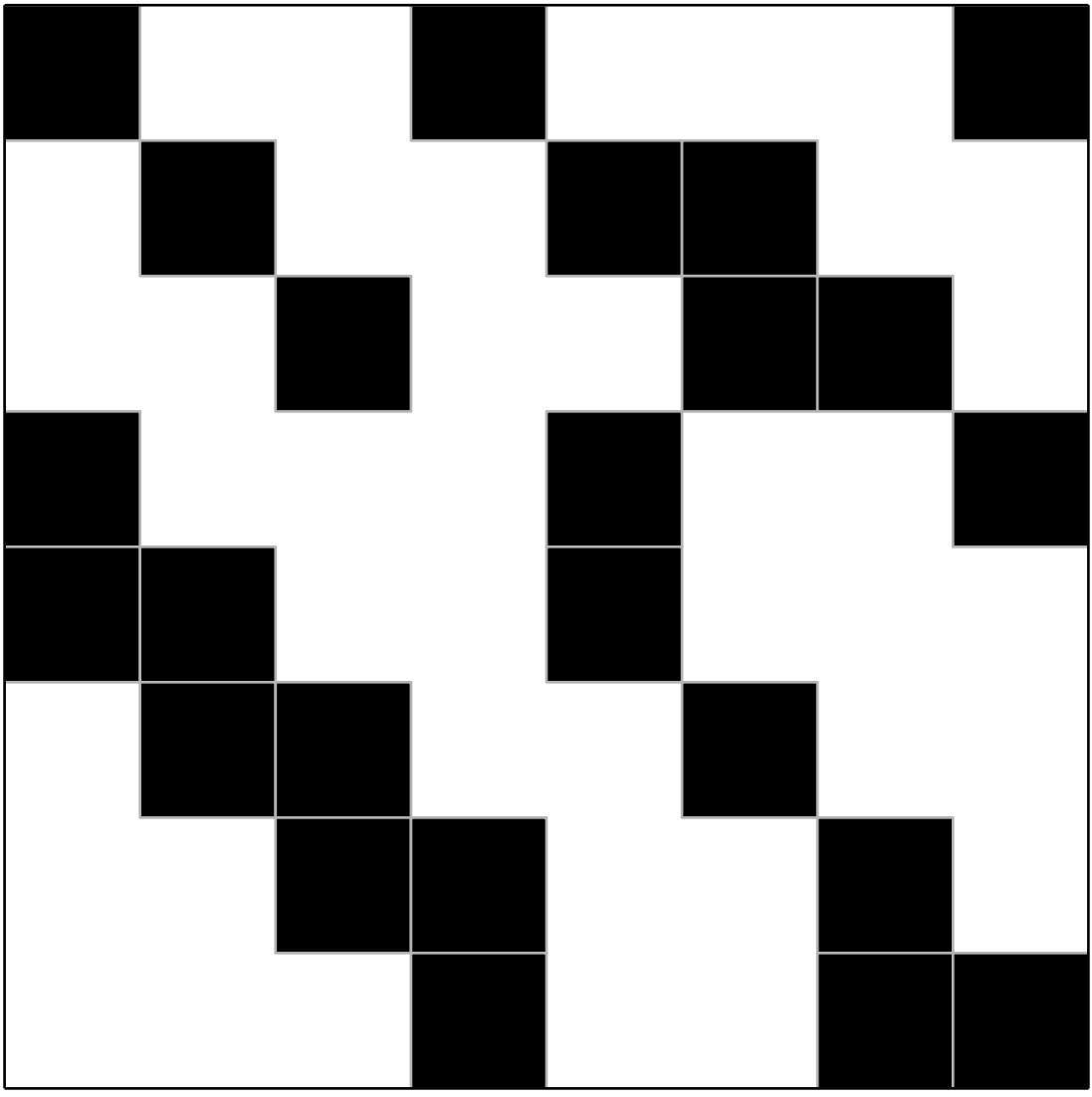
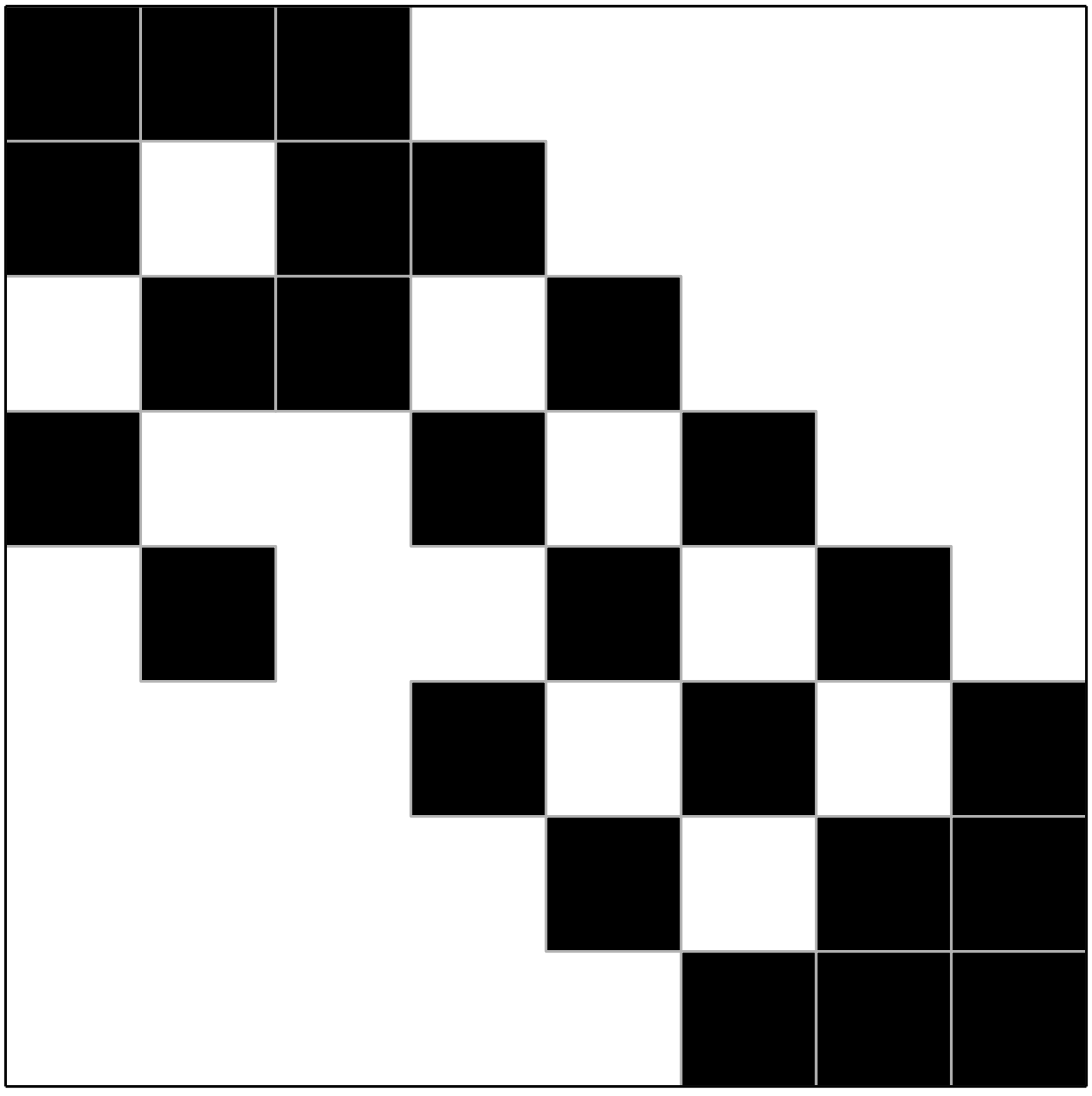
lib3_eiger-06 8x8 (24) con: 4, var: 4

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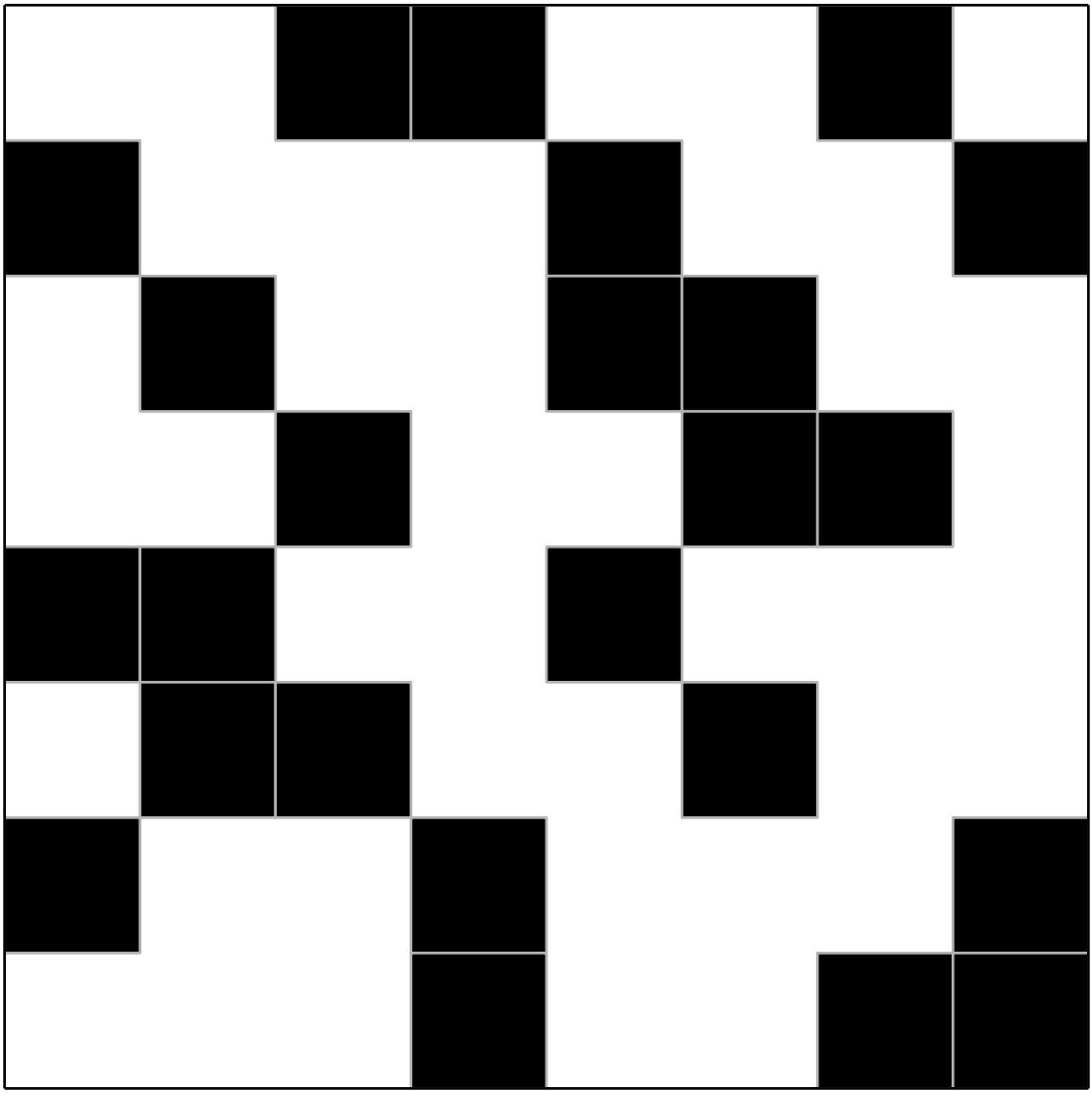
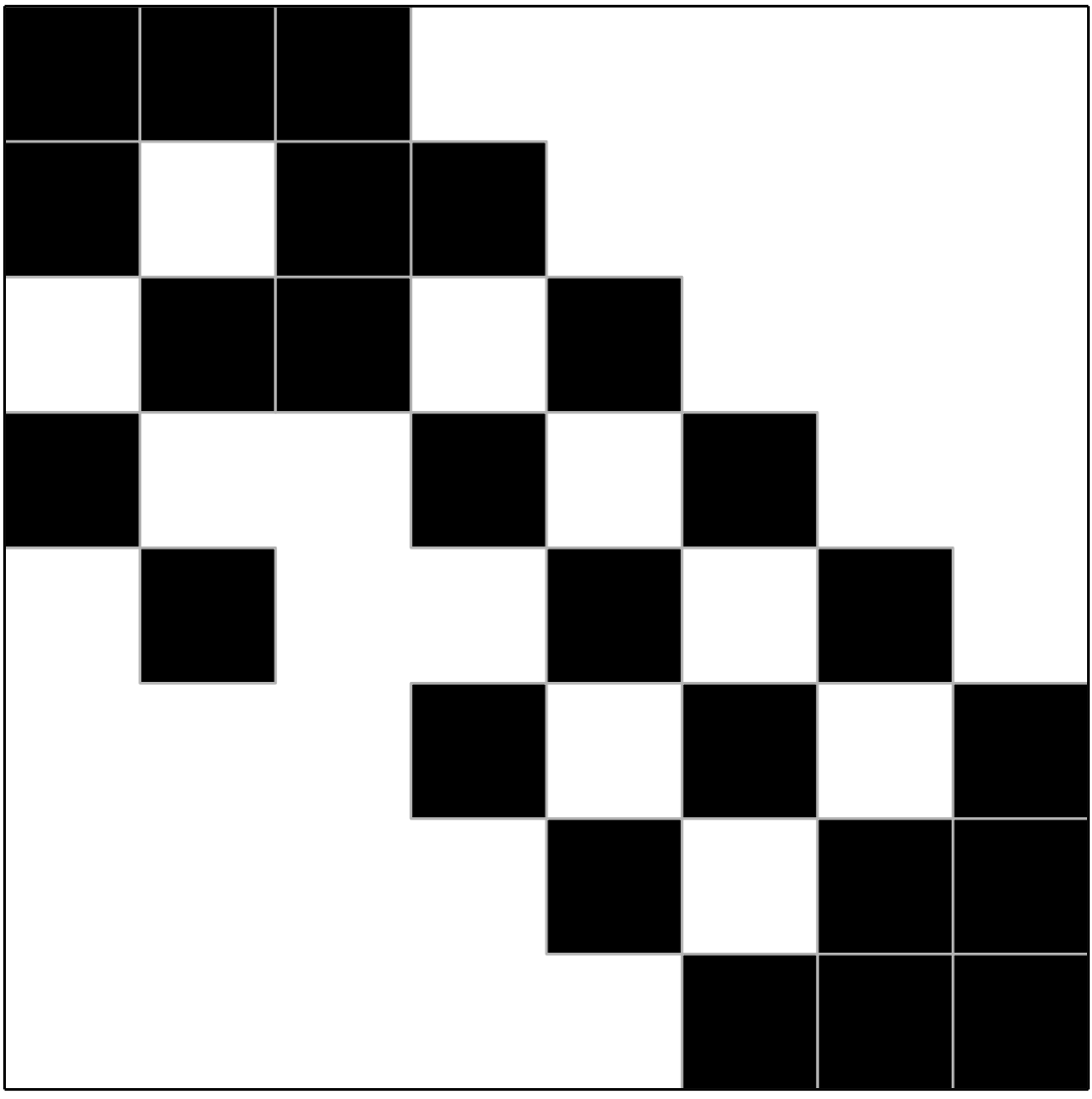
lib3_eiger-07 8x8 (24) con: 4, var: 4

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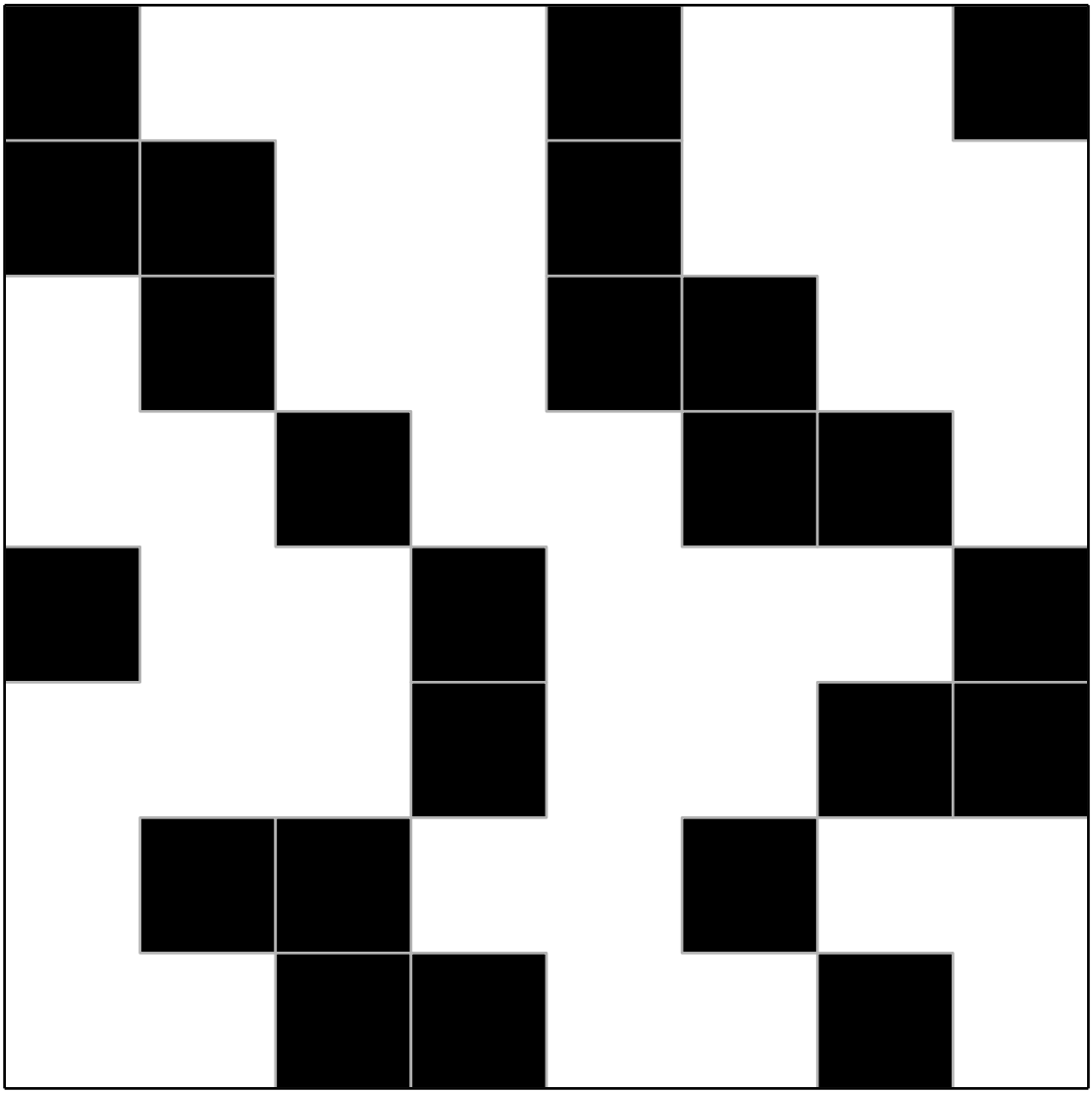
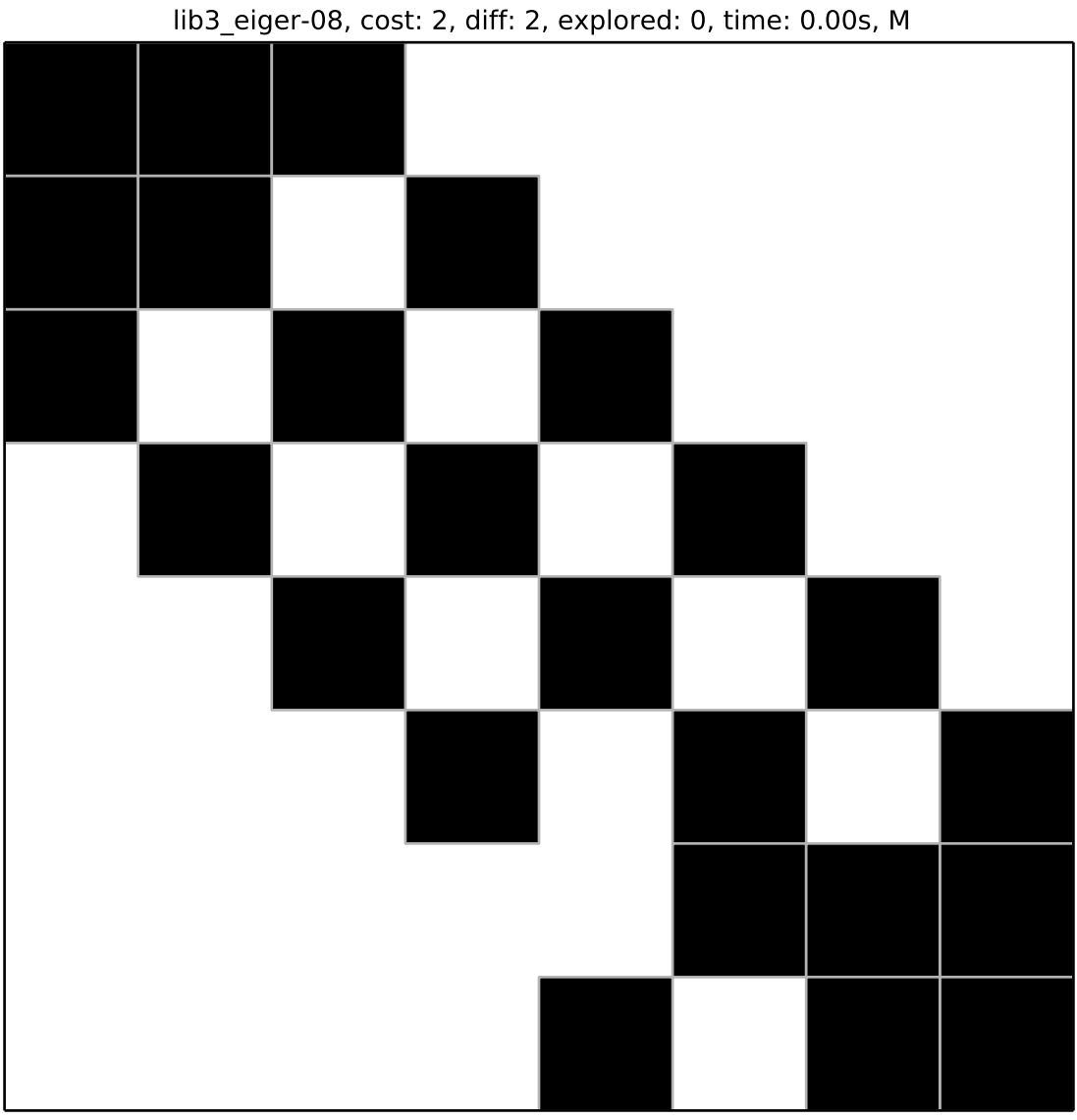
lib3_eiger-08 8x8 (24) con: 4, var: 4

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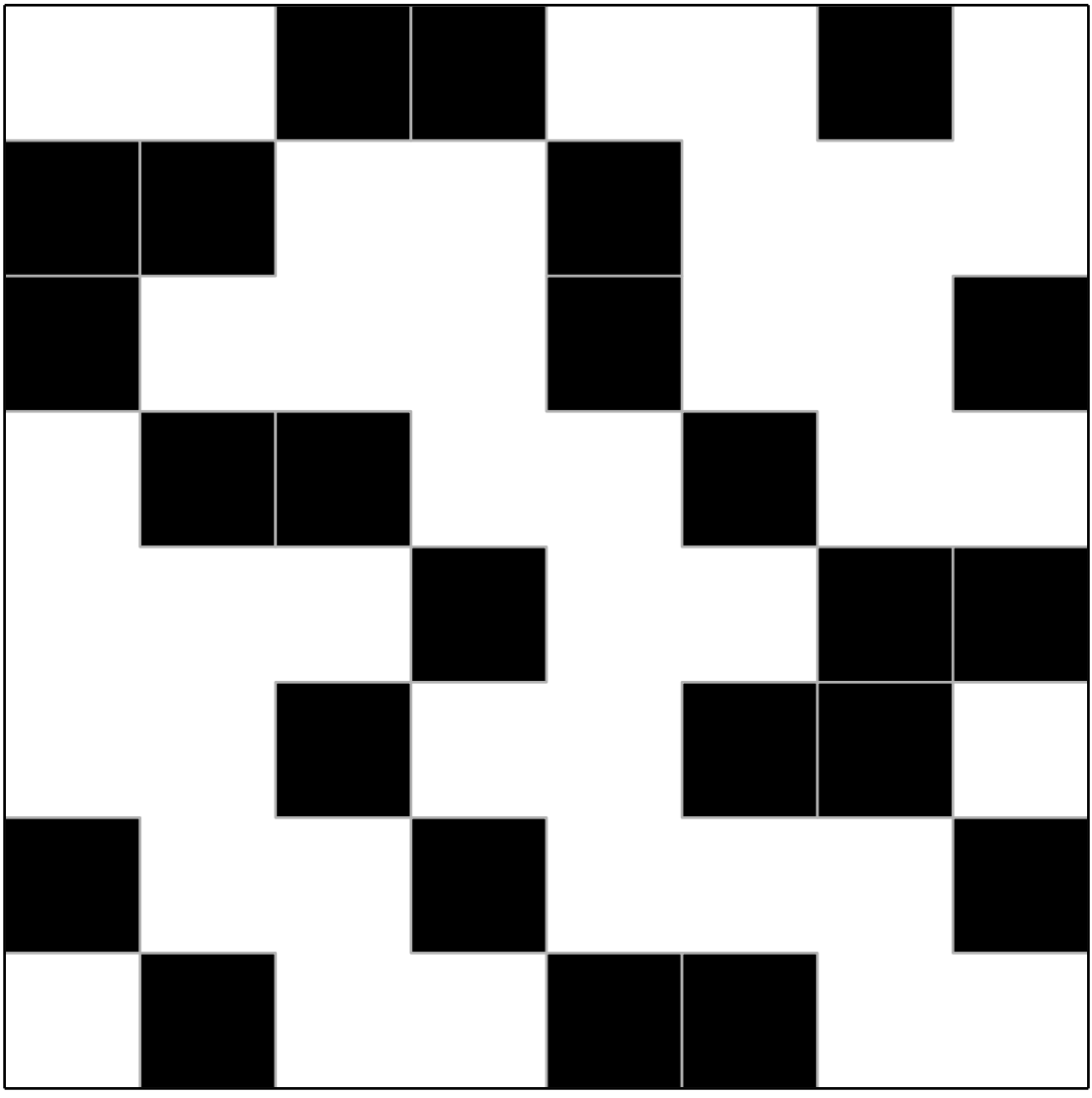
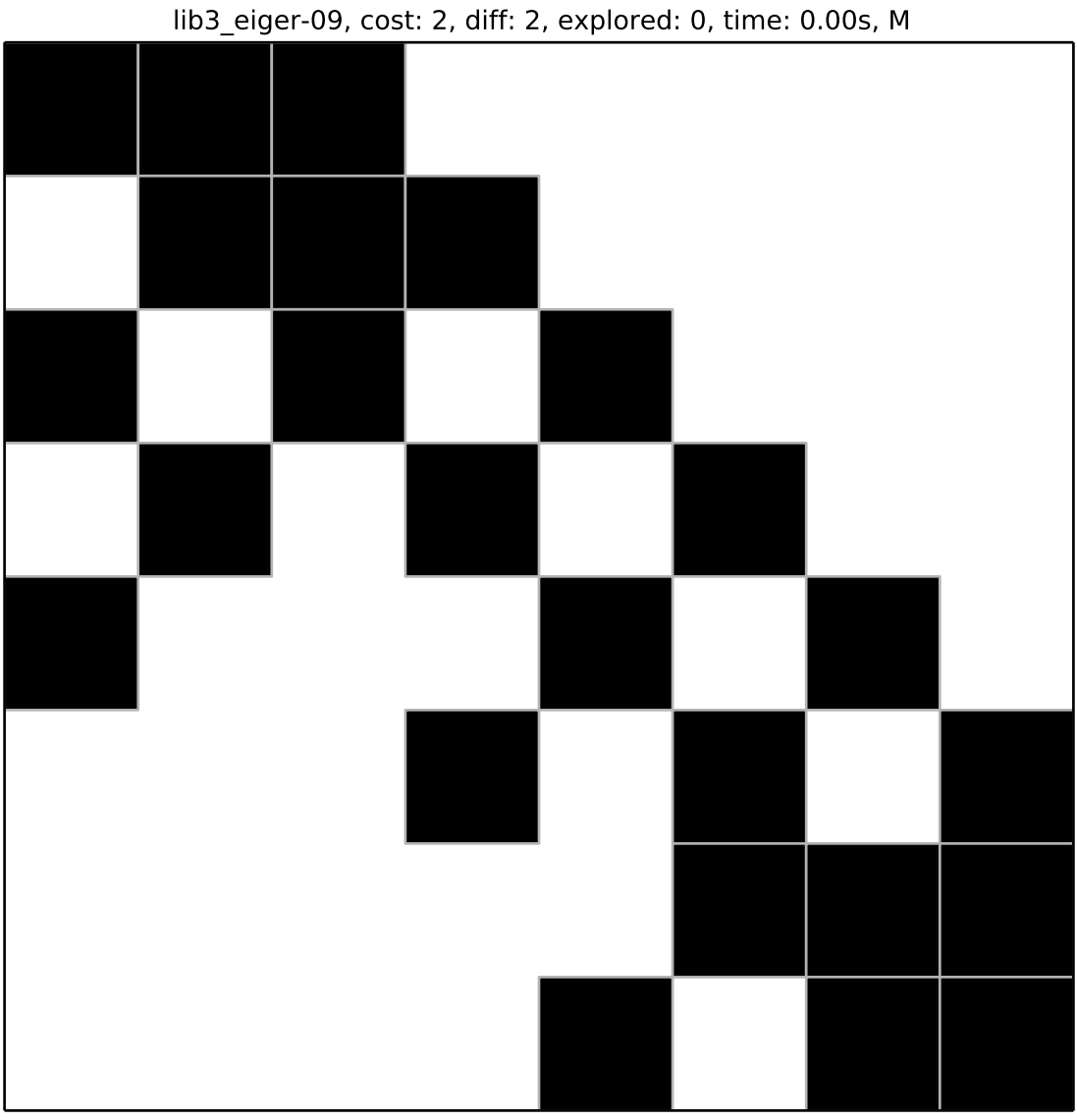
lib3_eiger-09 8x8 (24) con: 4, var: 4

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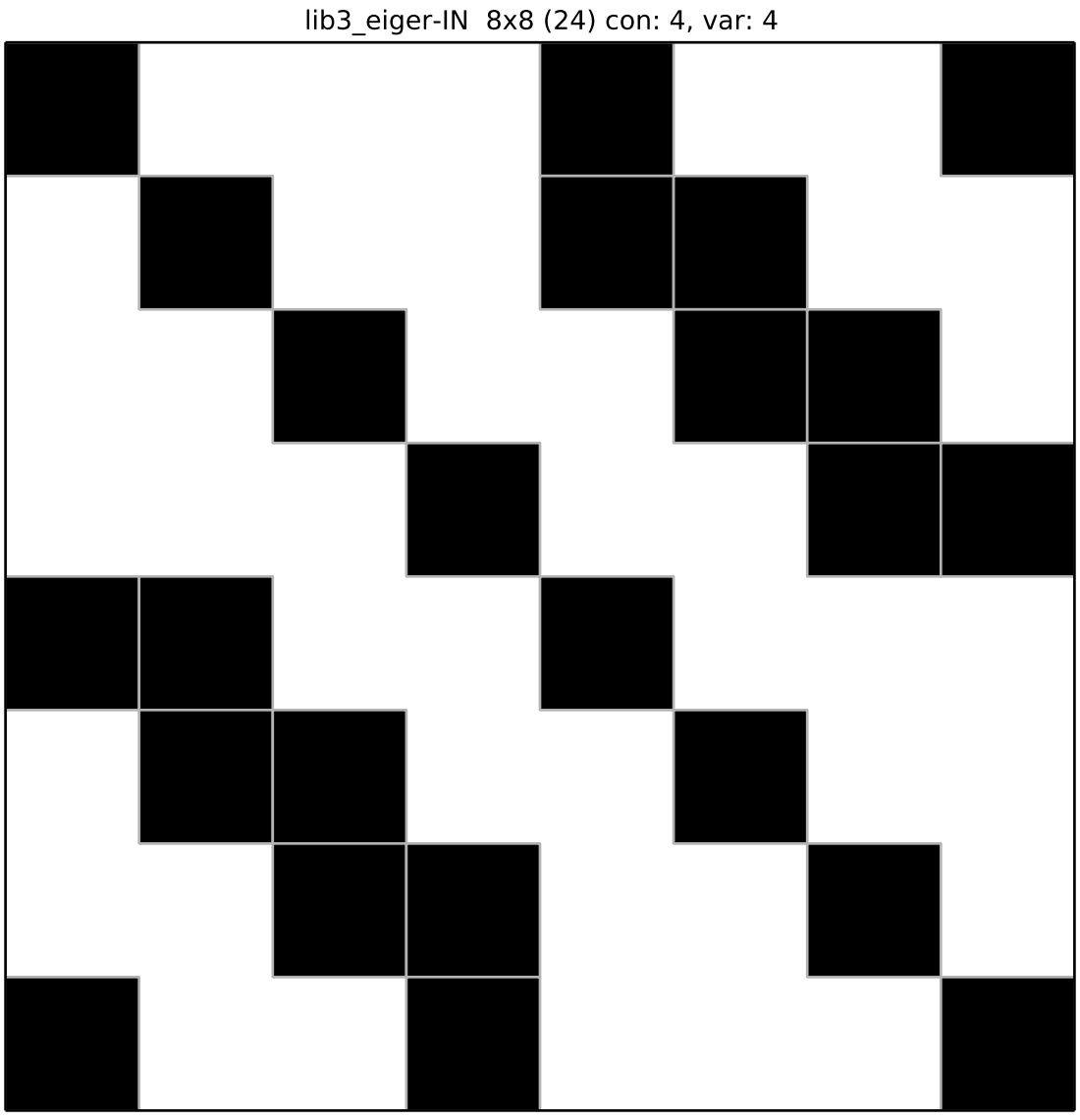
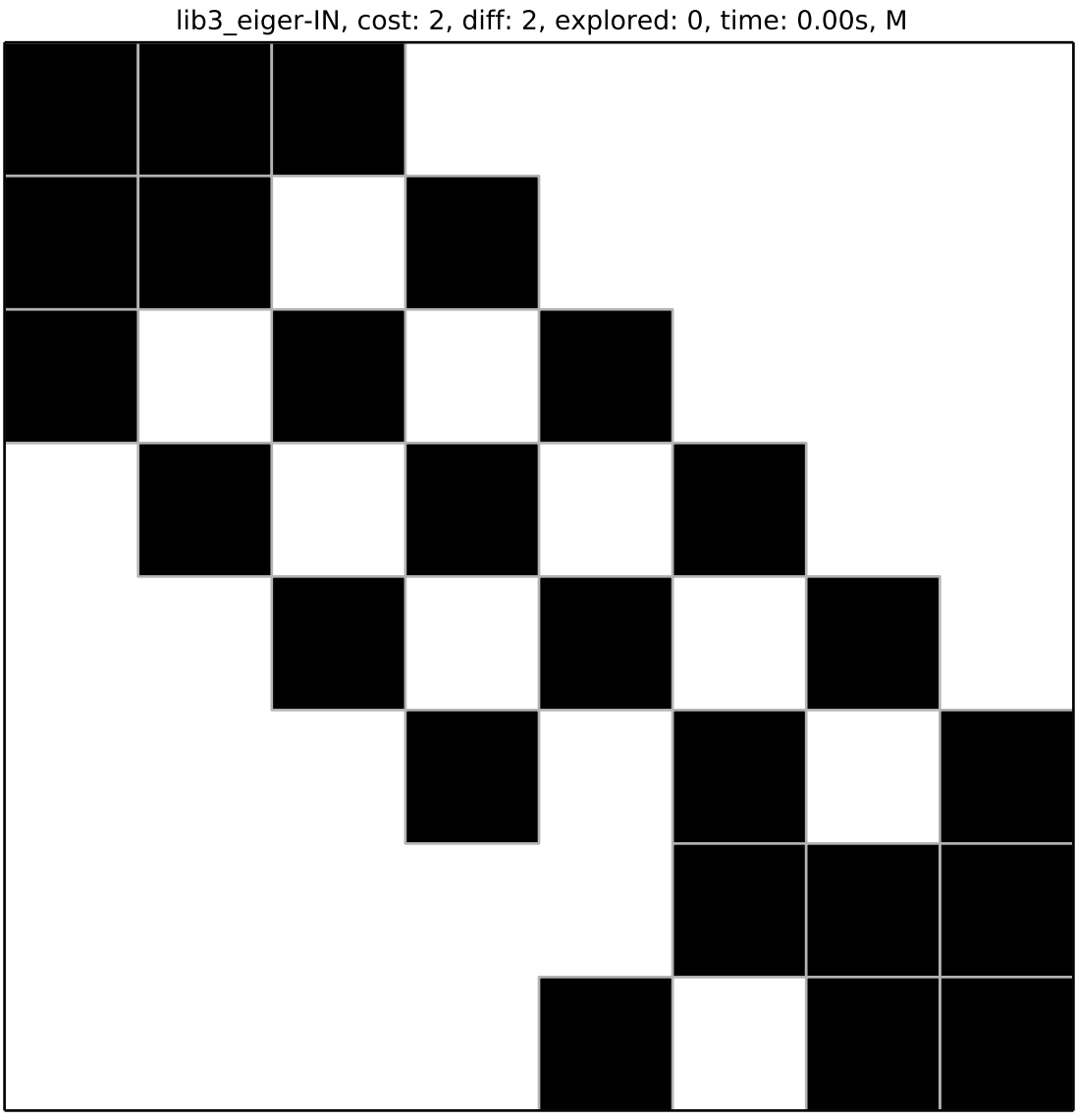

lib3_eiger-IN 8x8 (24) con: 4, var: 4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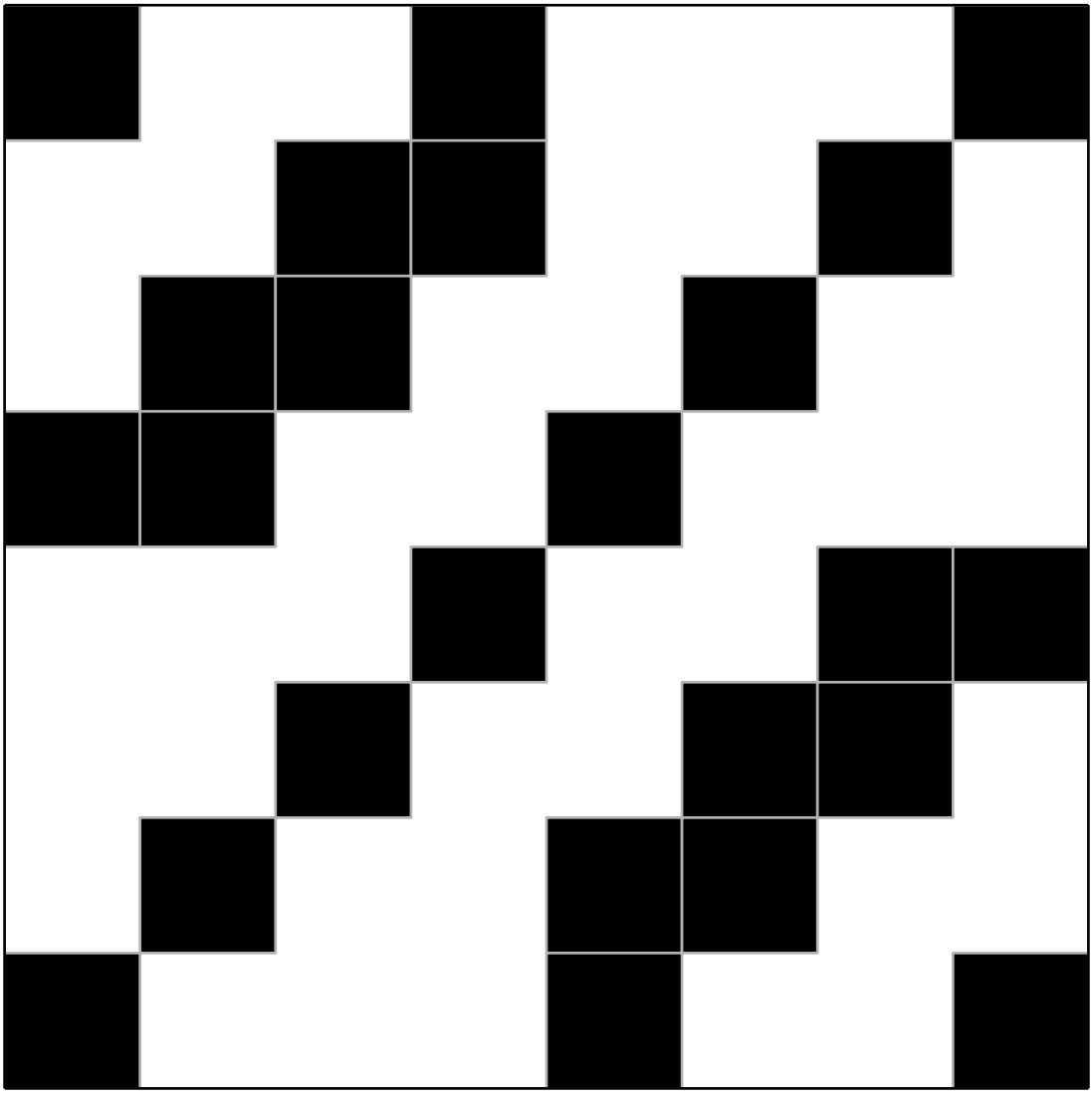
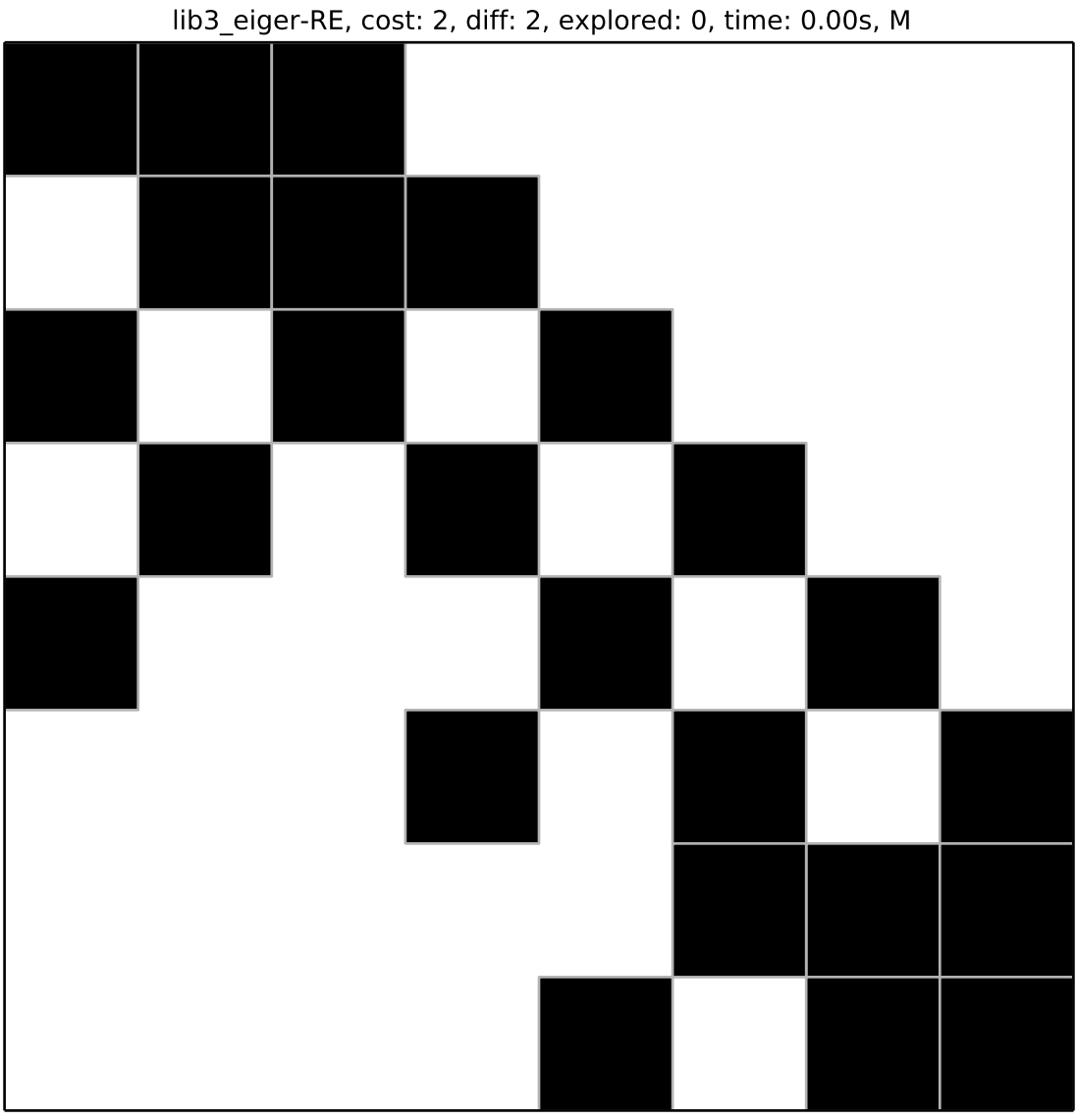
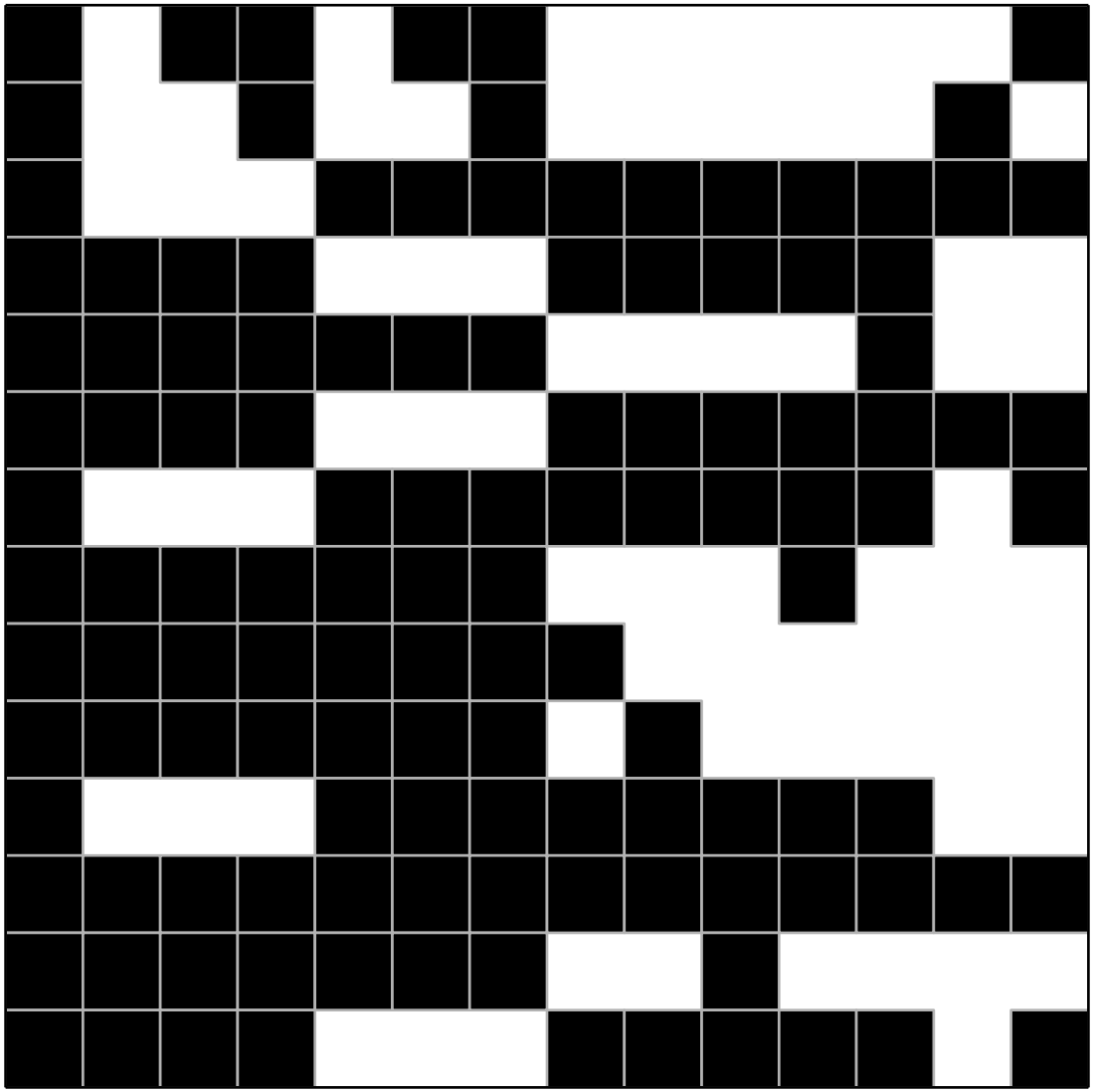
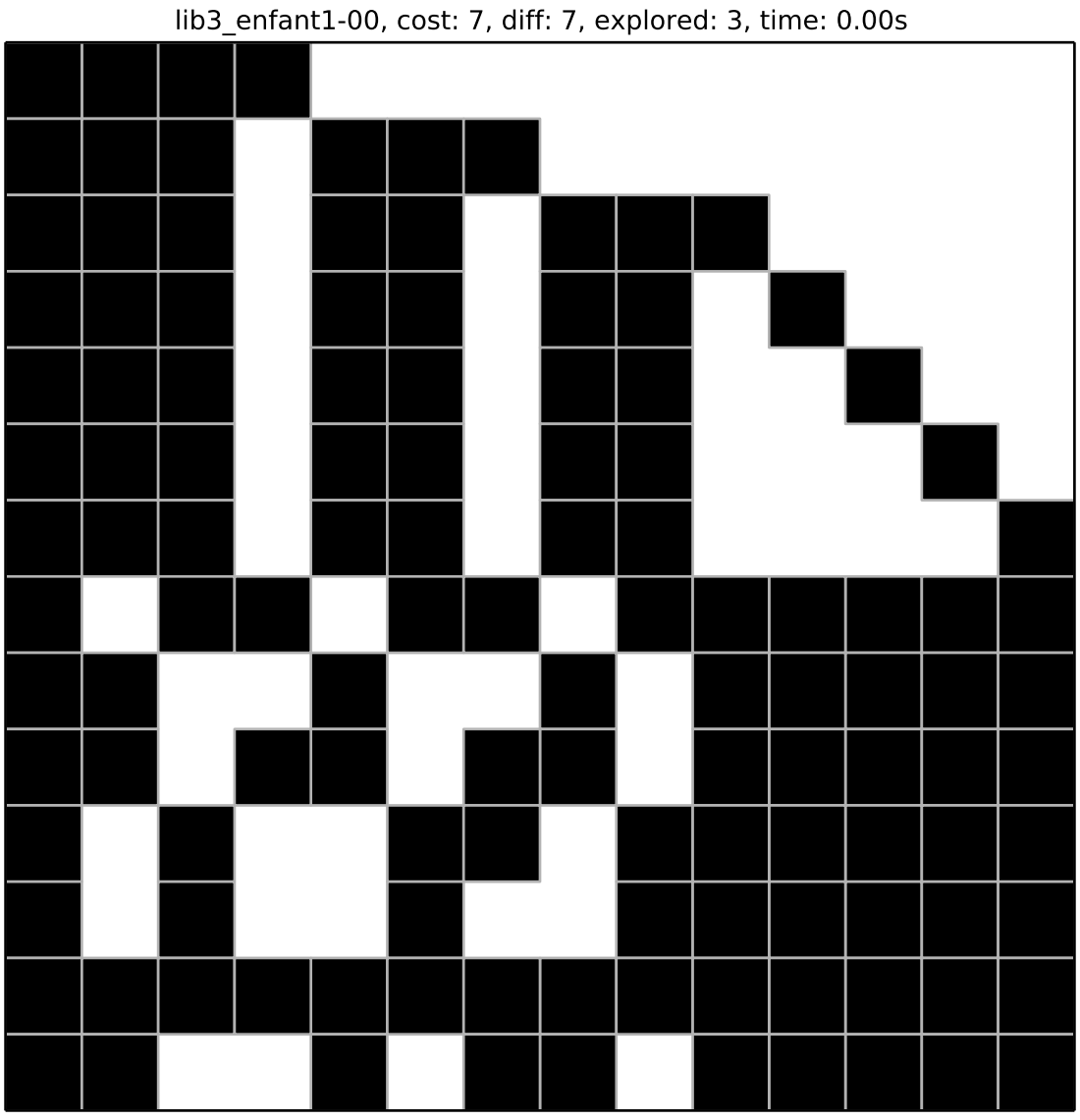
lib3_eiger-RE 8x8 (24) con: 4, var: 4



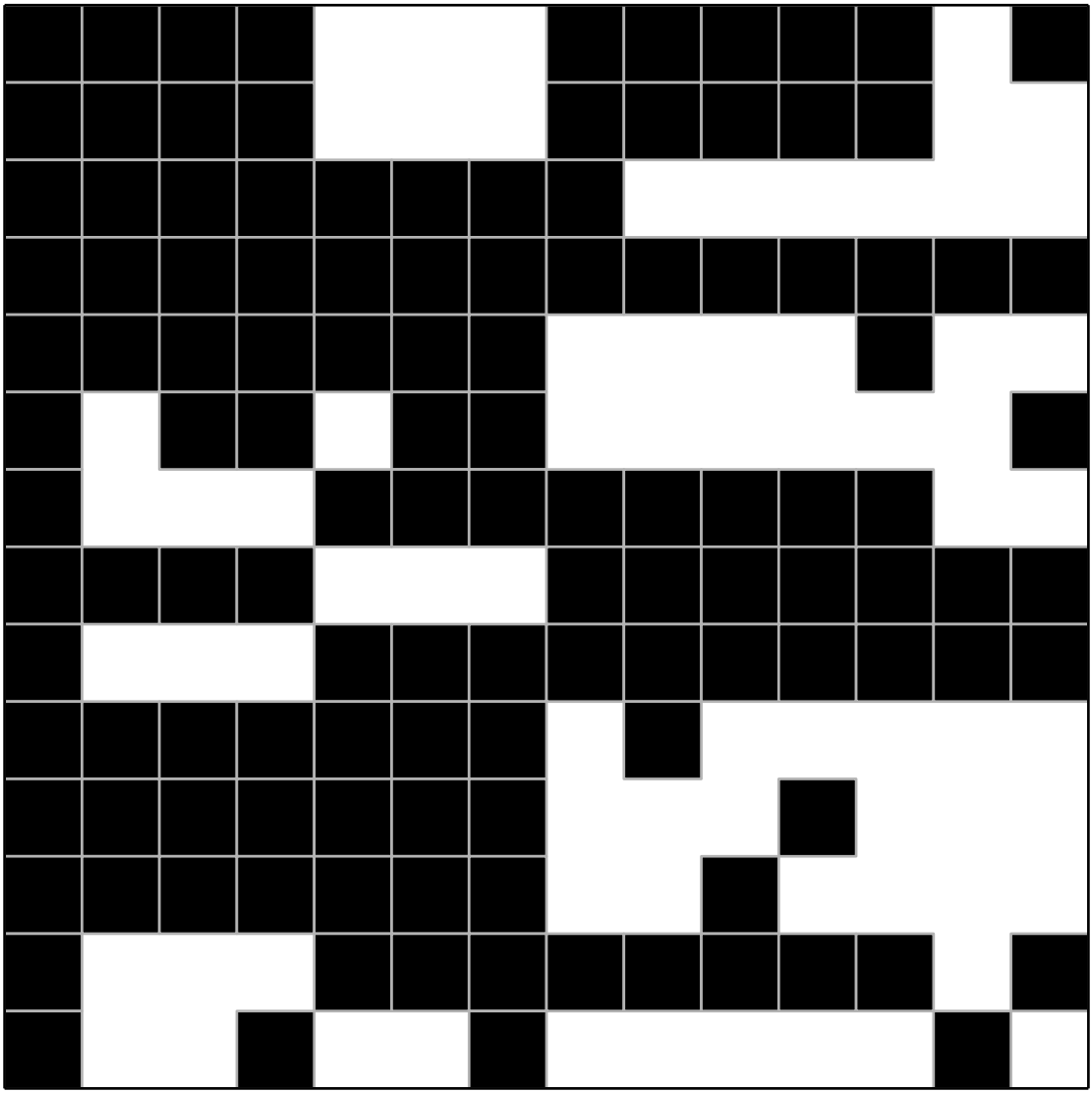

lib3_eiger-RE, cost: 2, diff: 2, explored: 0, time: 0.00s, M

lib3_enfant1-00 14x14 (124) con: 7, var: 7

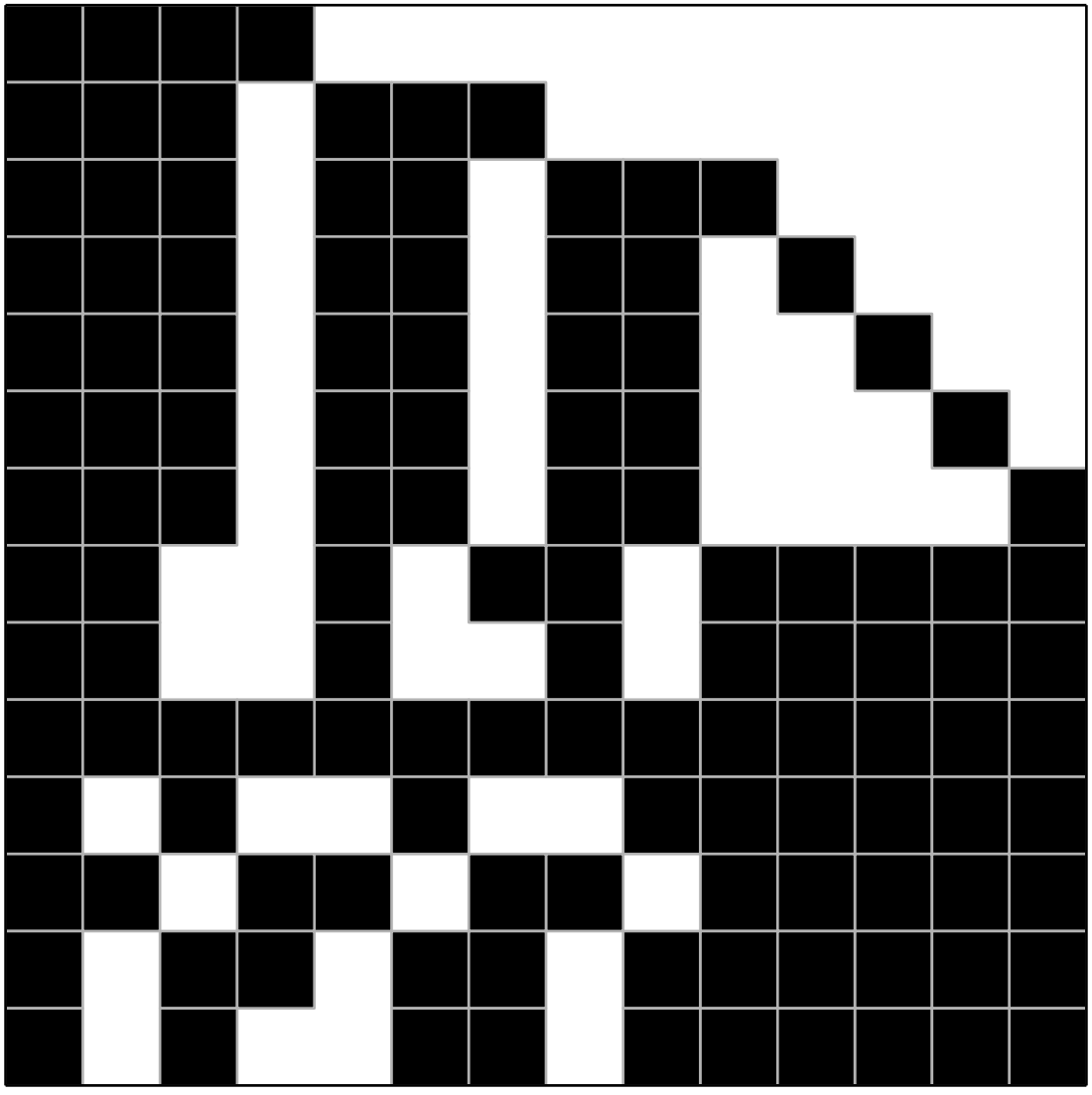



lib3_enfant1-00, cost: 7, diff: 7, explored: 3, time: 0.00s

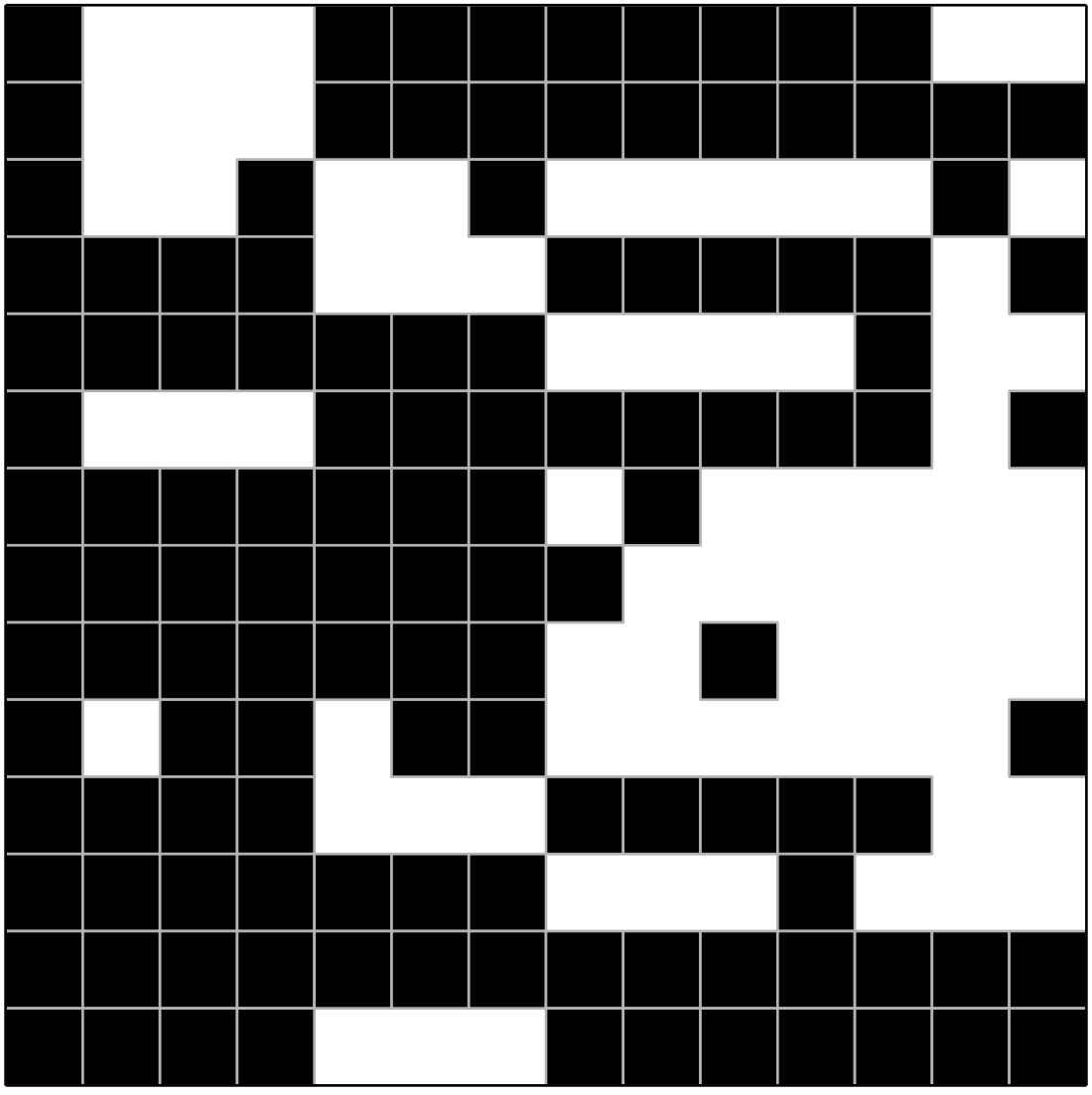
lib3_enfant1-01 14x14 (124) con: 7, var: 7



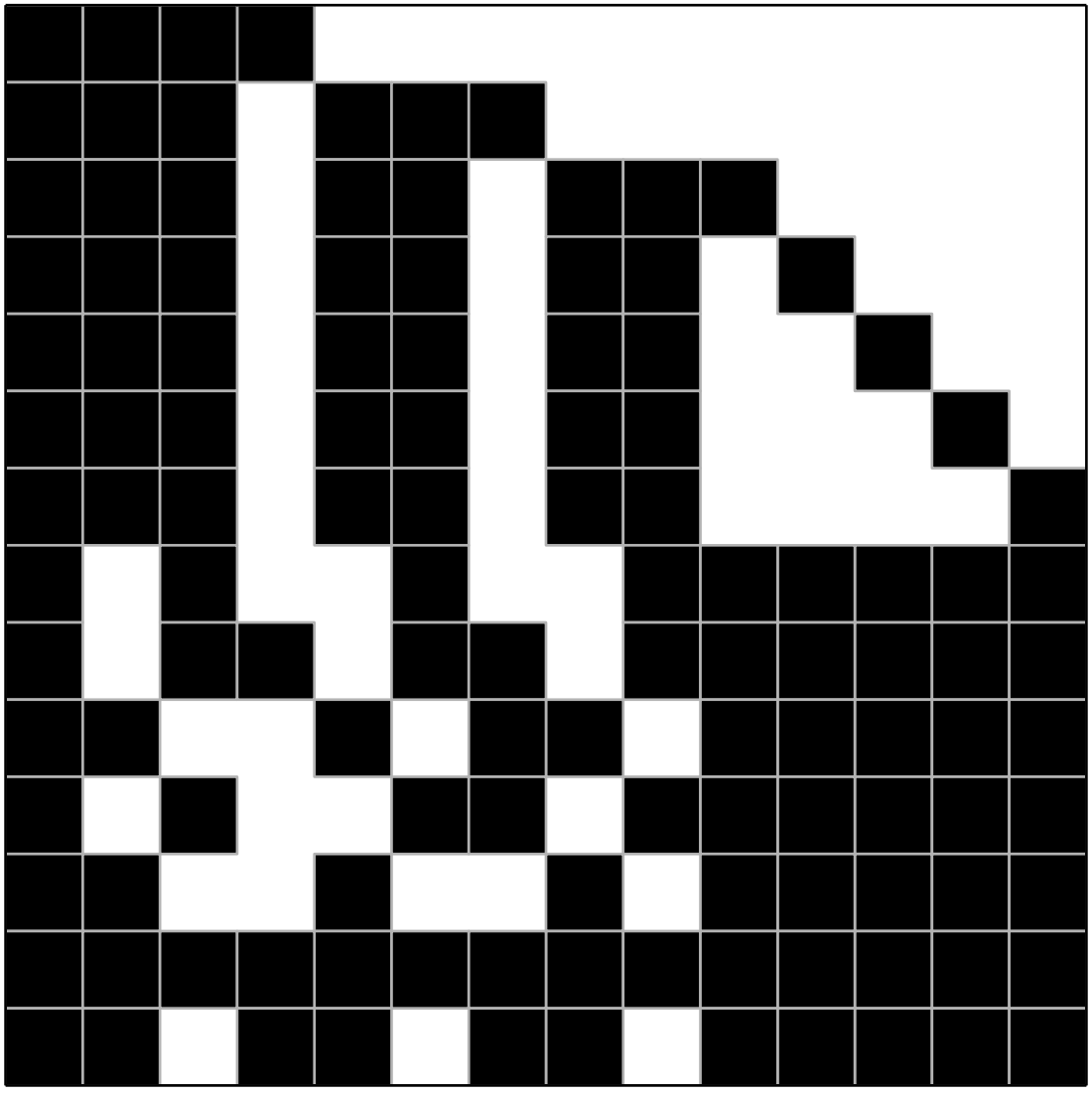
lib3_enfant1-01, cost: 7, diff: 7, explored: 3, time: 0.00s



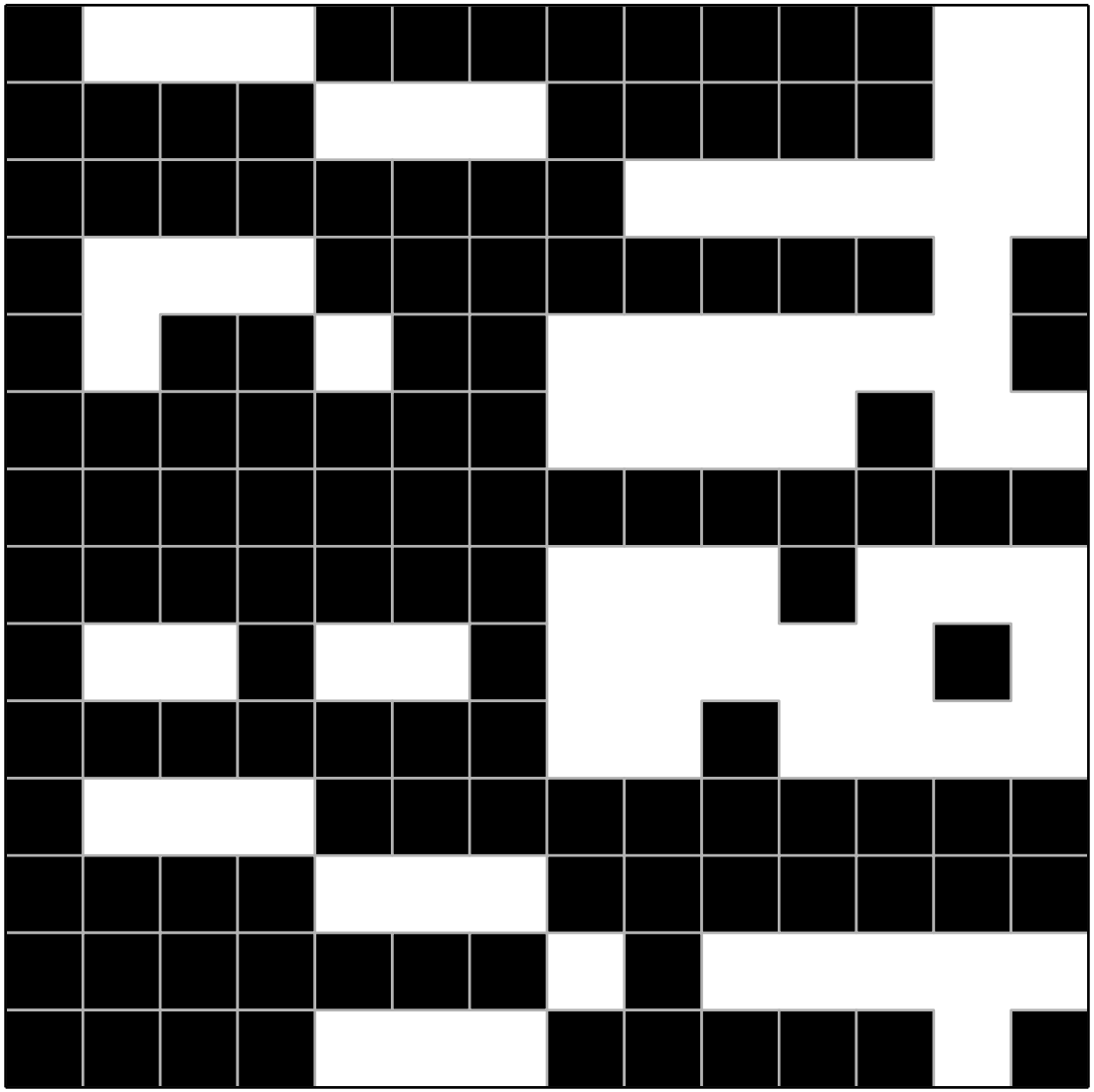
lib3_enfant1-02 14x14 (124) con: 7, var: 7



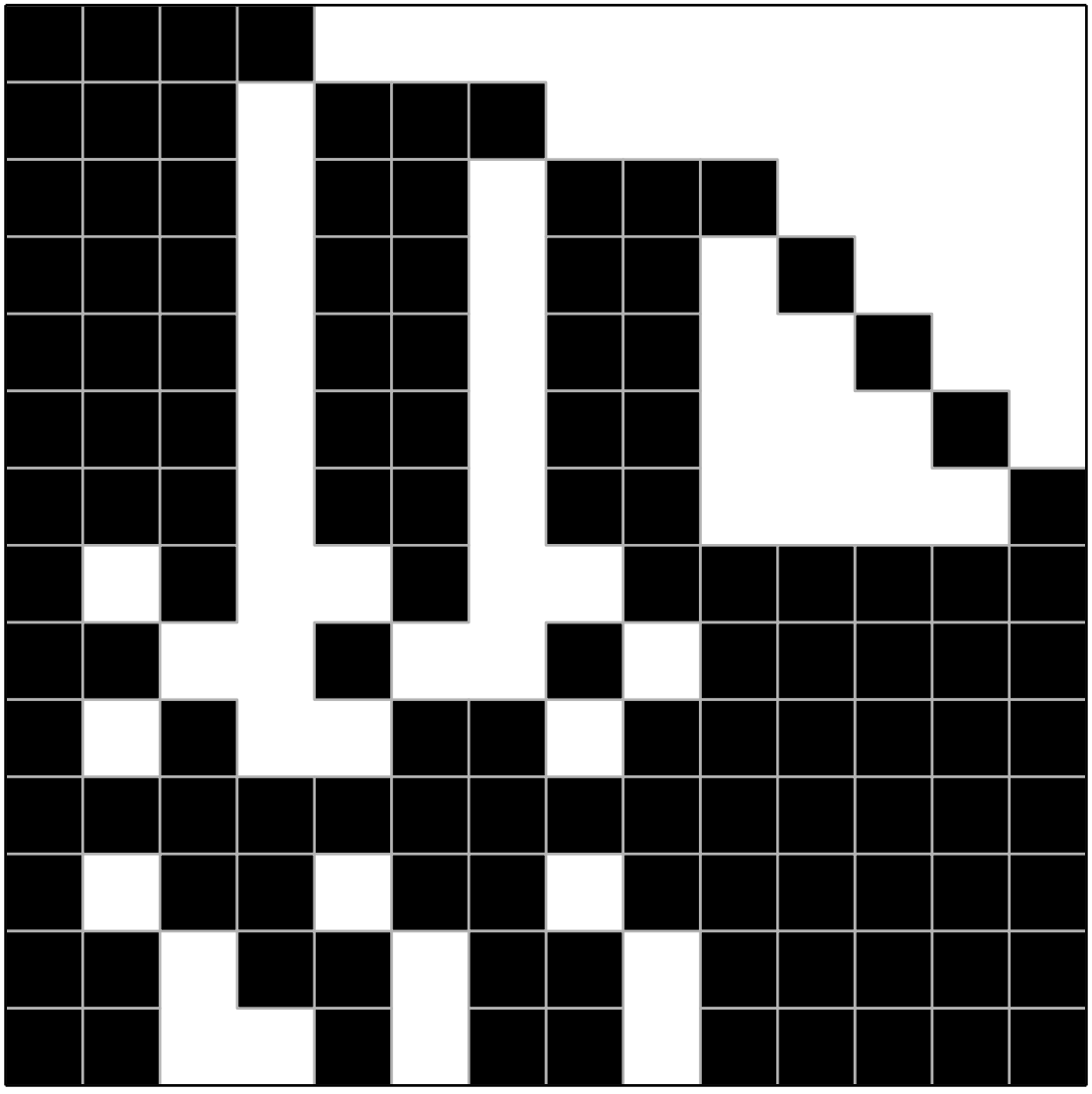
lib3_enfant1-02, cost: 7, diff: 7, explored: 3, time: 0.00s



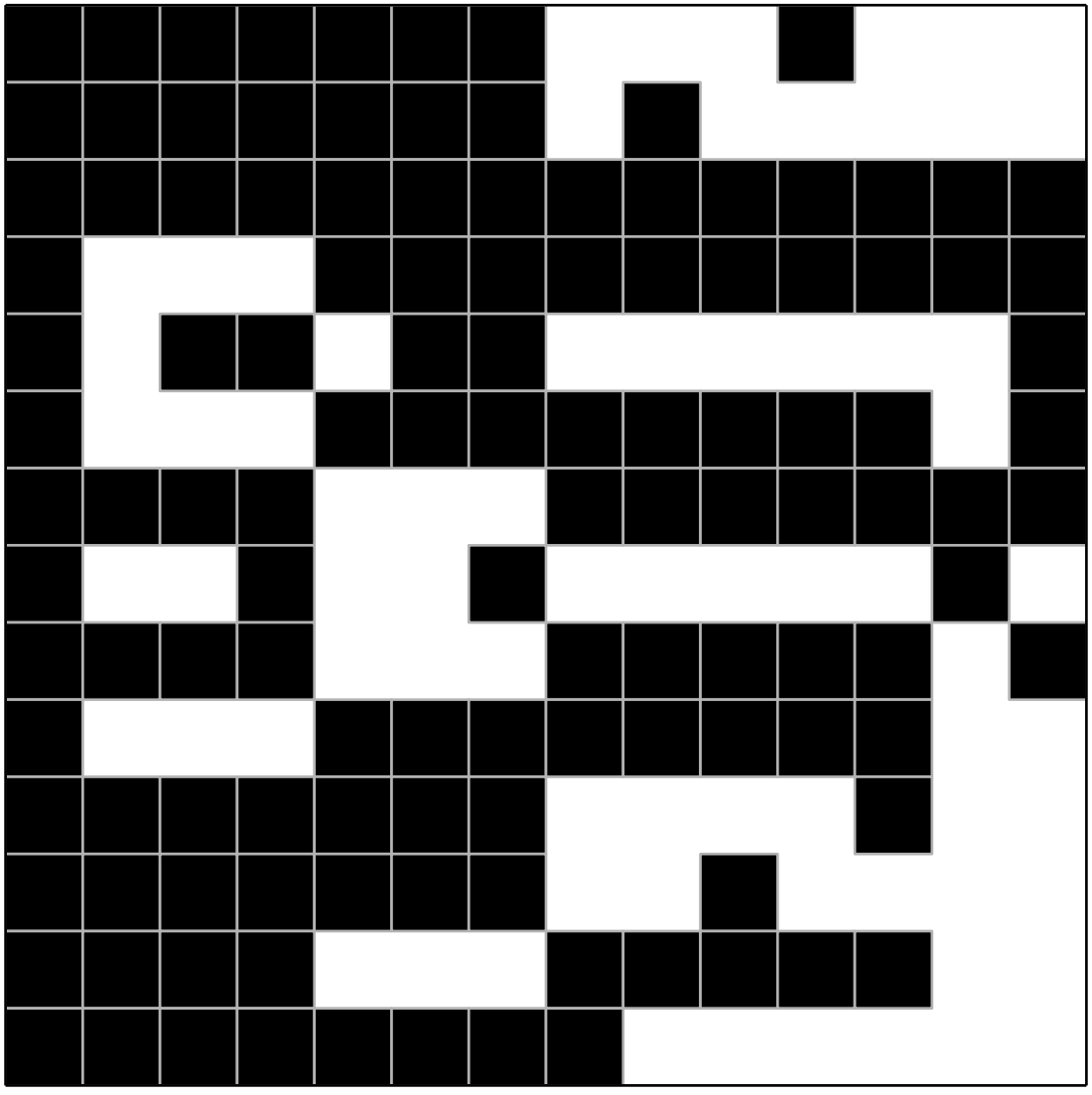
lib3_enfant1-03 14x14 (124) con: 7, var: 7



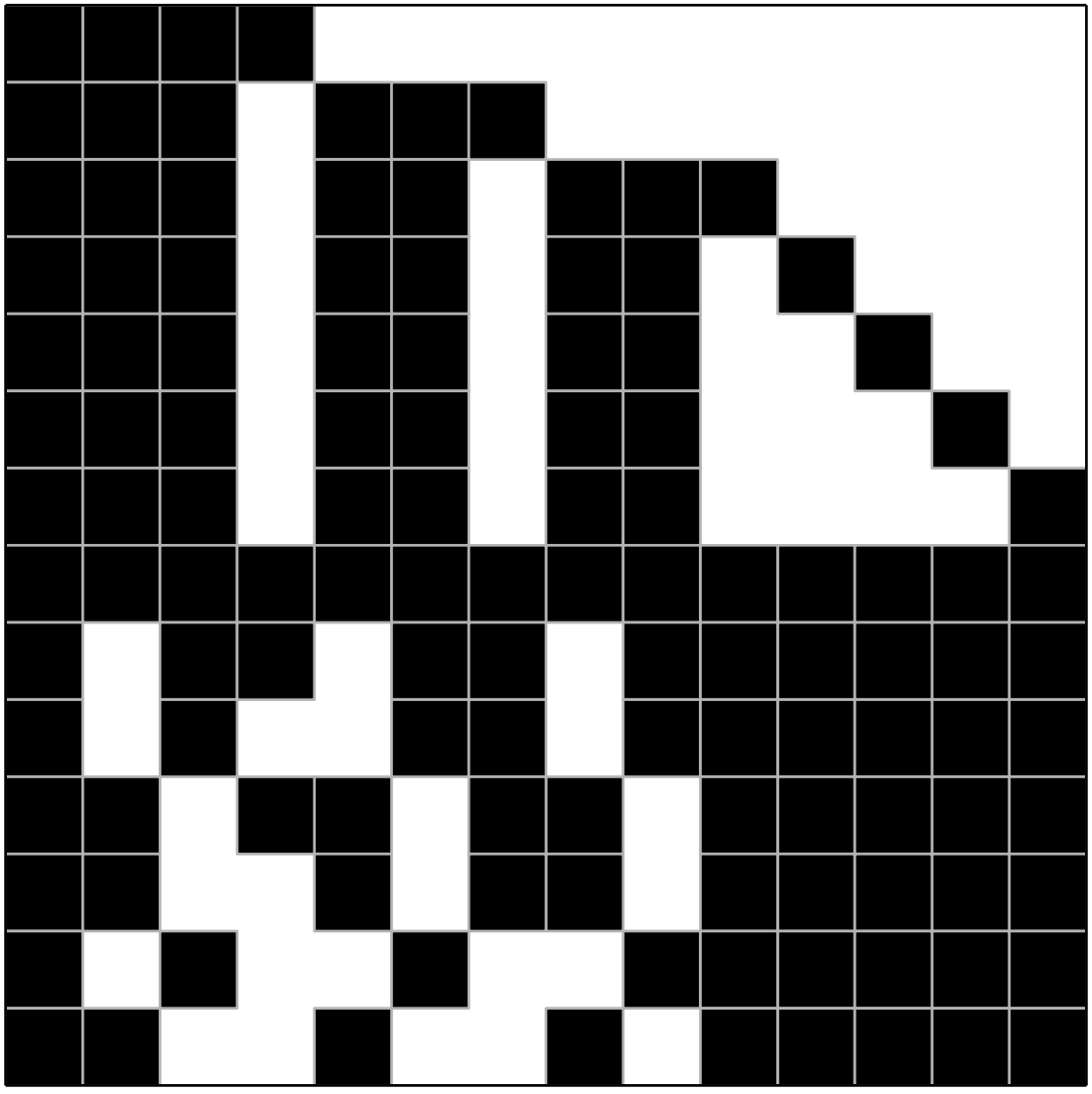
lib3_enfant1-03, cost: 7, diff: 7, explored: 3, time: 0.00s



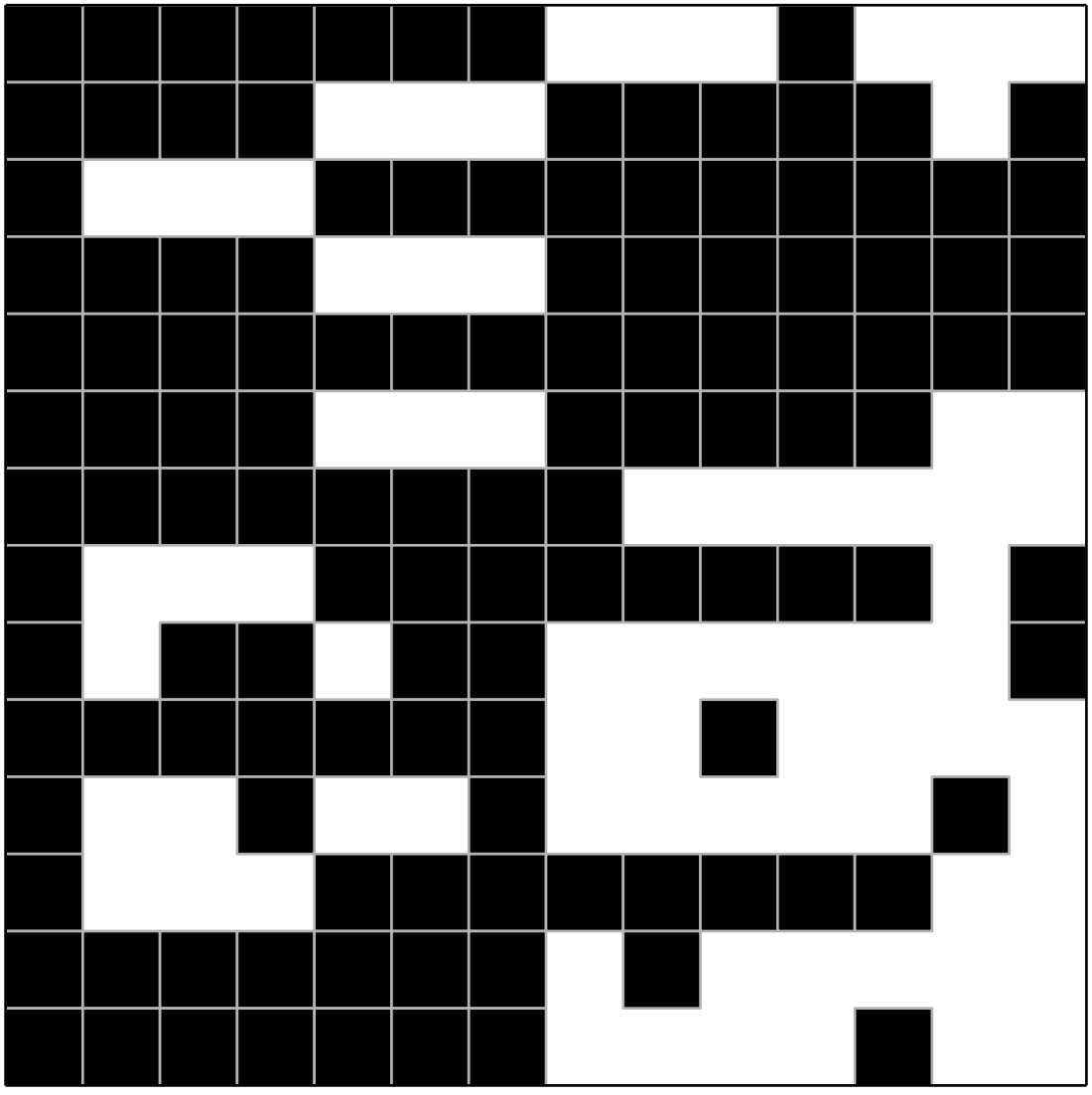
lib3_enfant1-04 14x14 (124) con: 7, var: 7



lib3_enfant1-04, cost: 7, diff: 7, explored: 3, time: 0.00s



lib3_enfant1-05 14x14 (124) con: 7, var: 7



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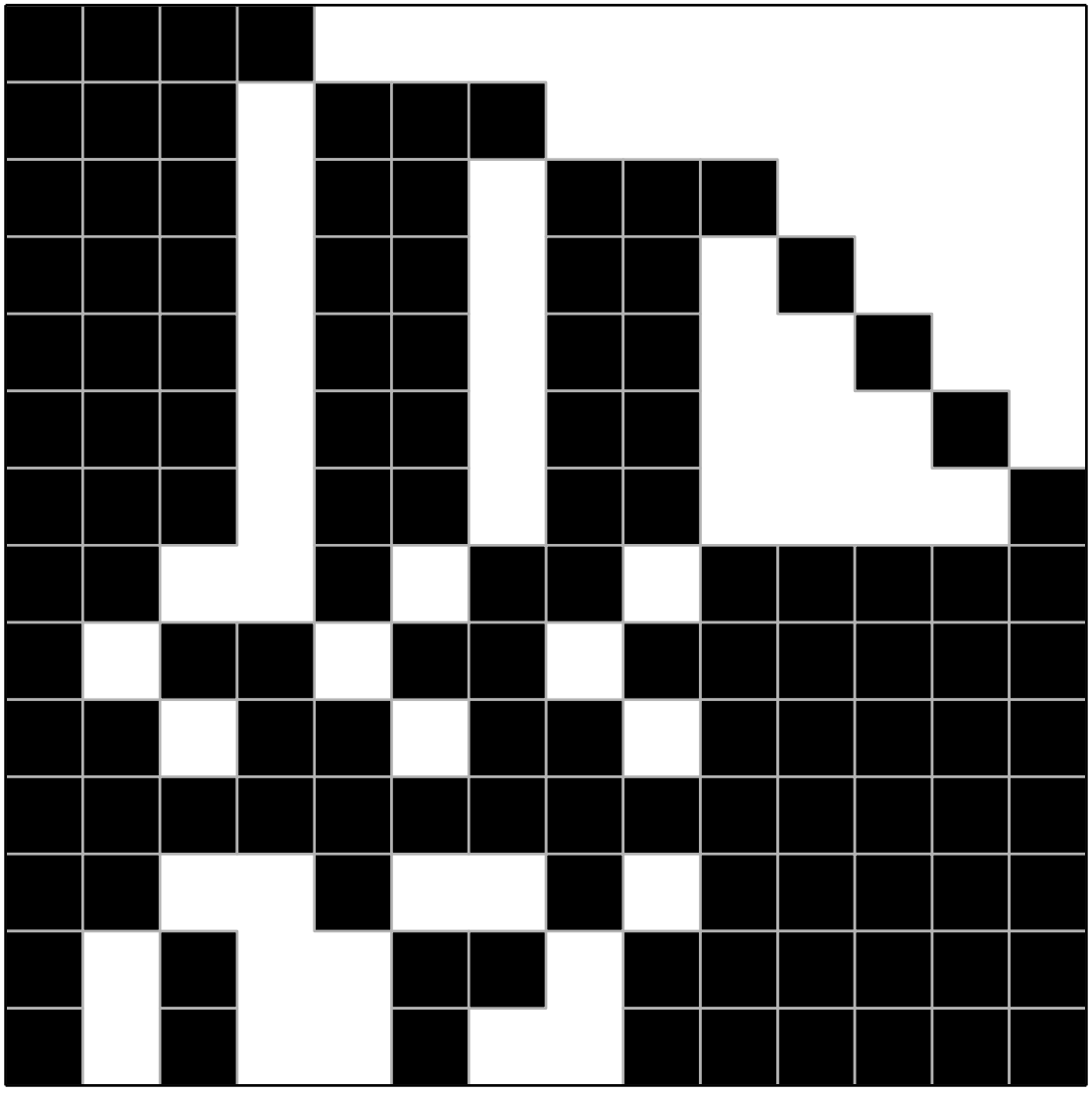

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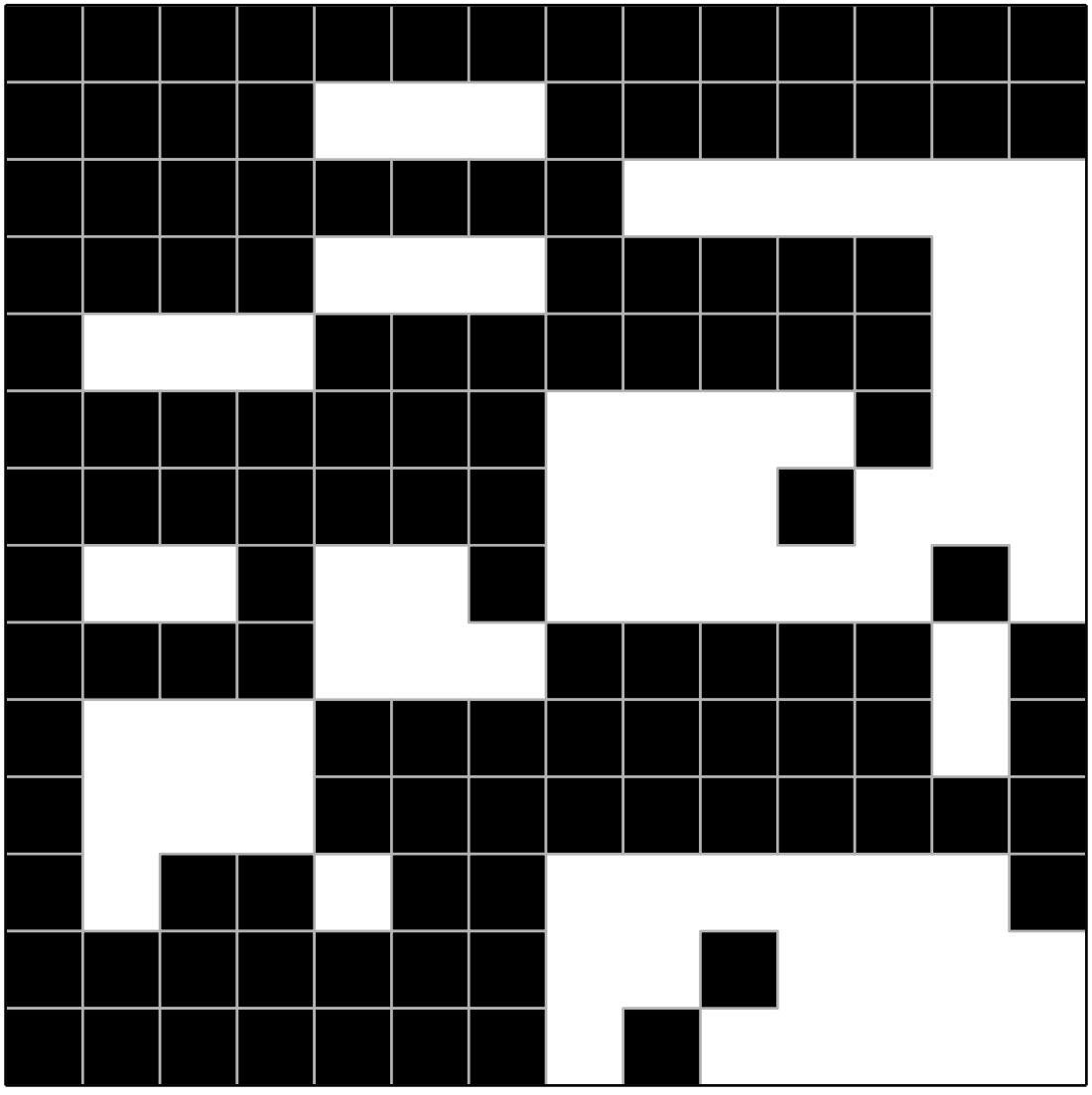

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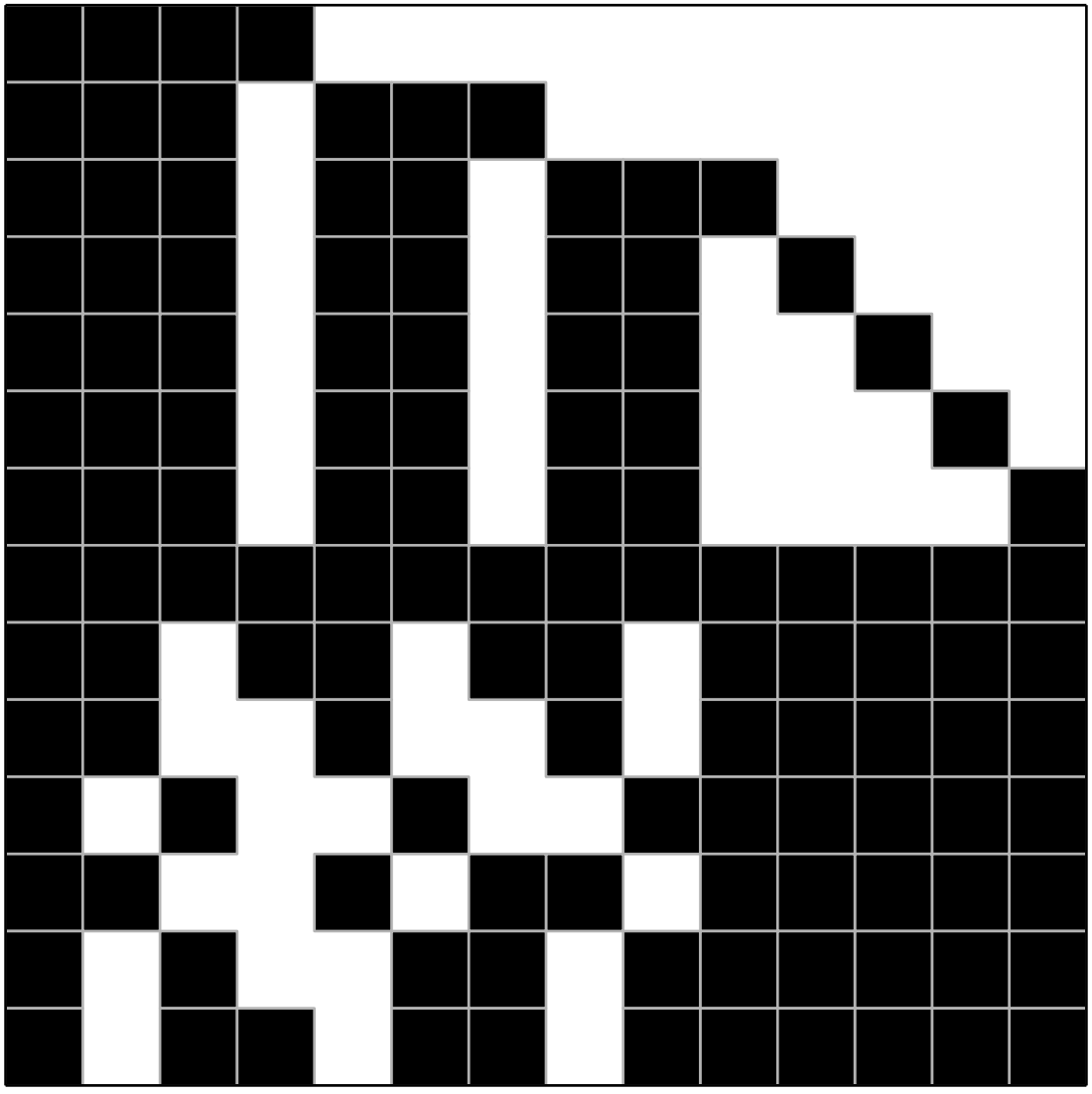
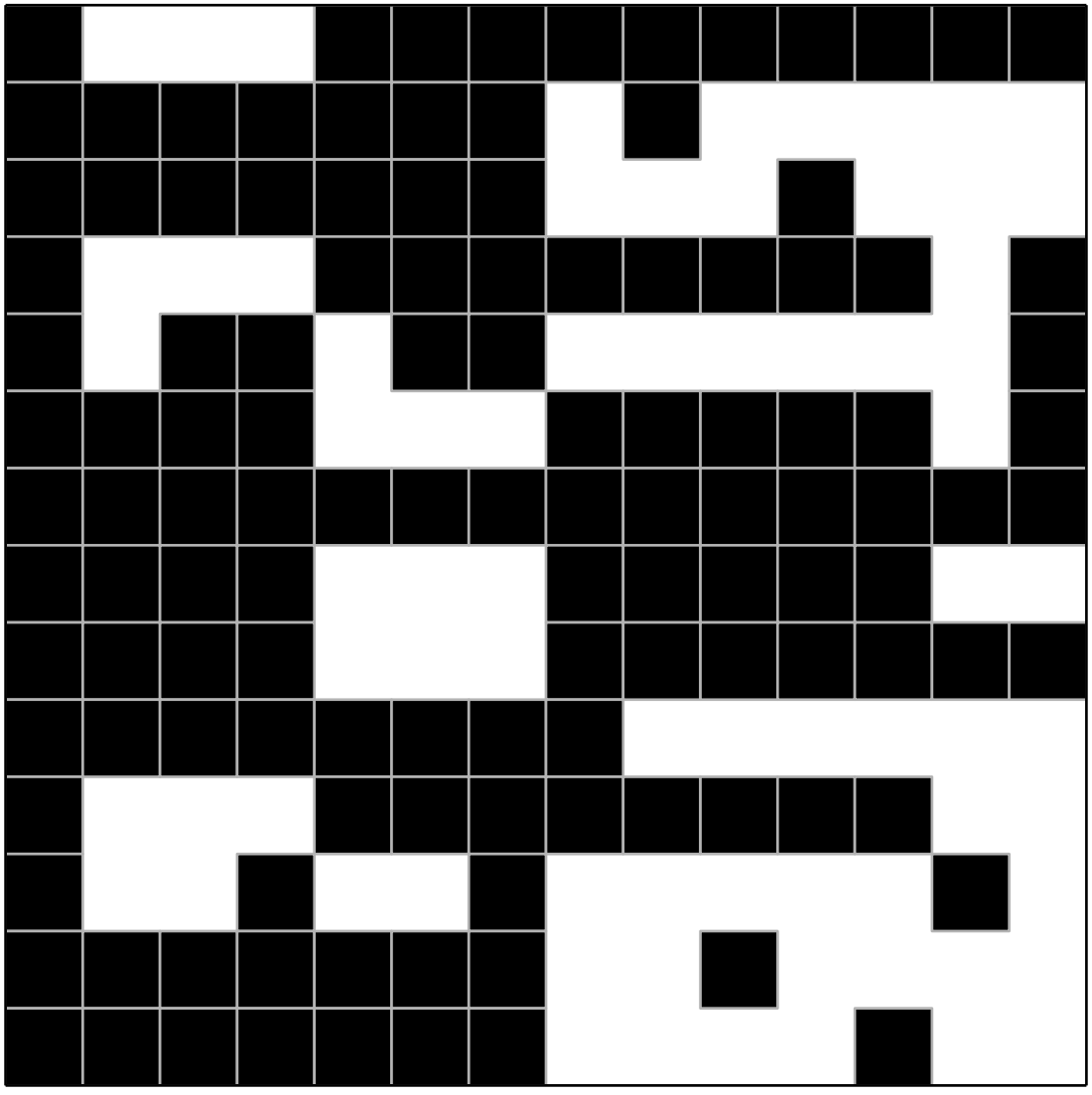
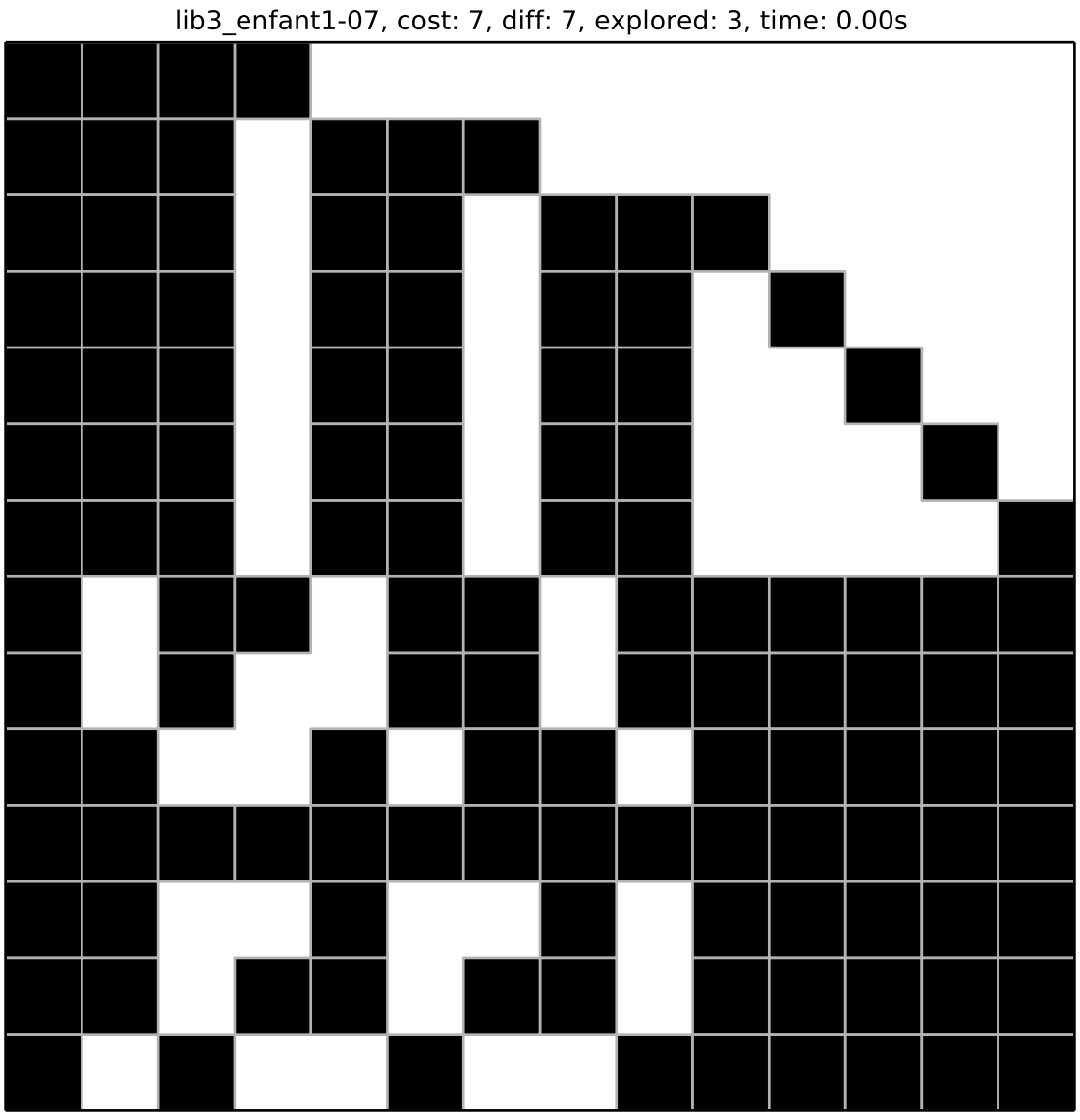


lib3_enfant1-07 14x14 (124) con: 7, var: 7

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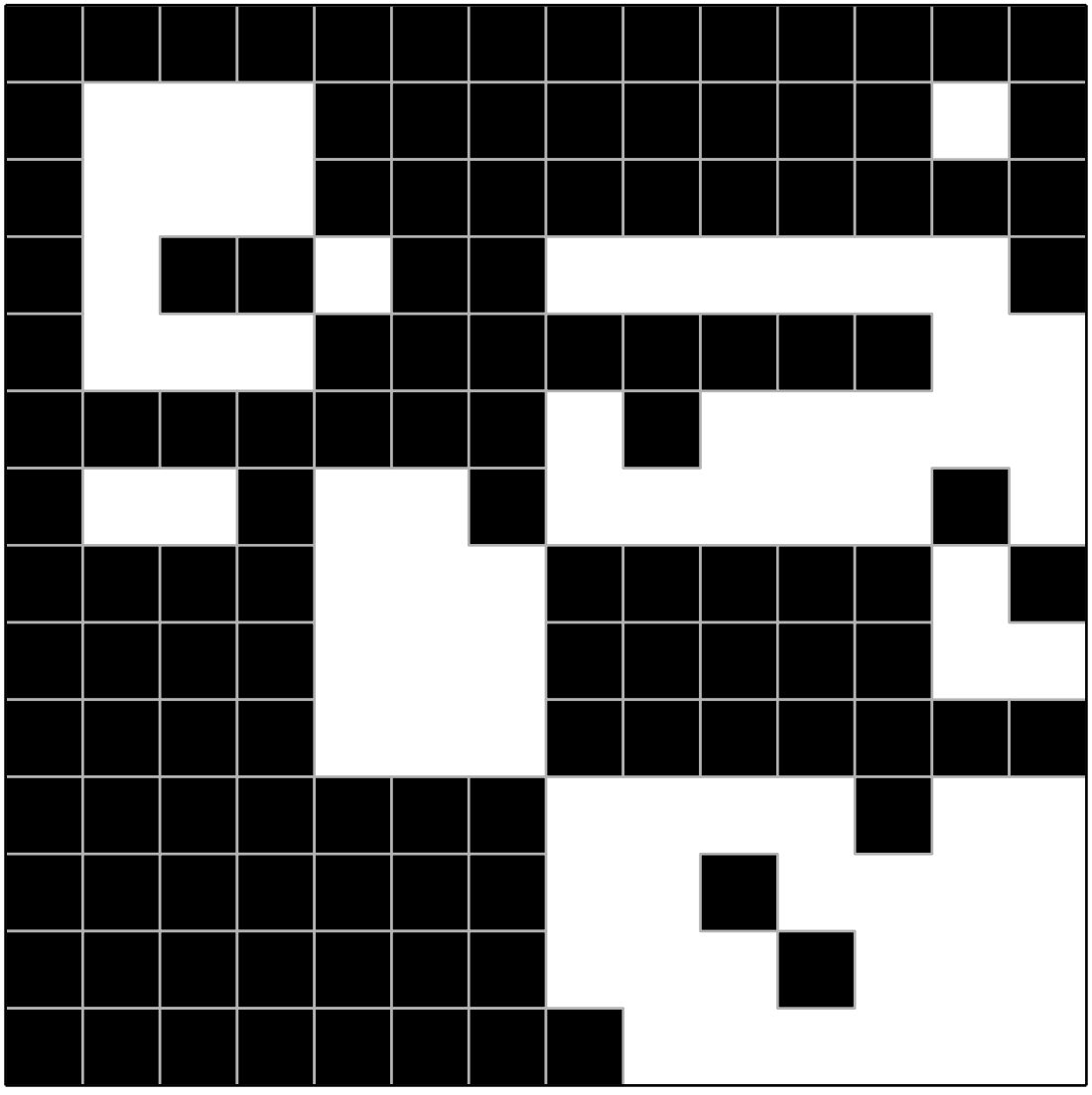
lib3_enfant1-08 14x14 (124) con: 7, var: 7



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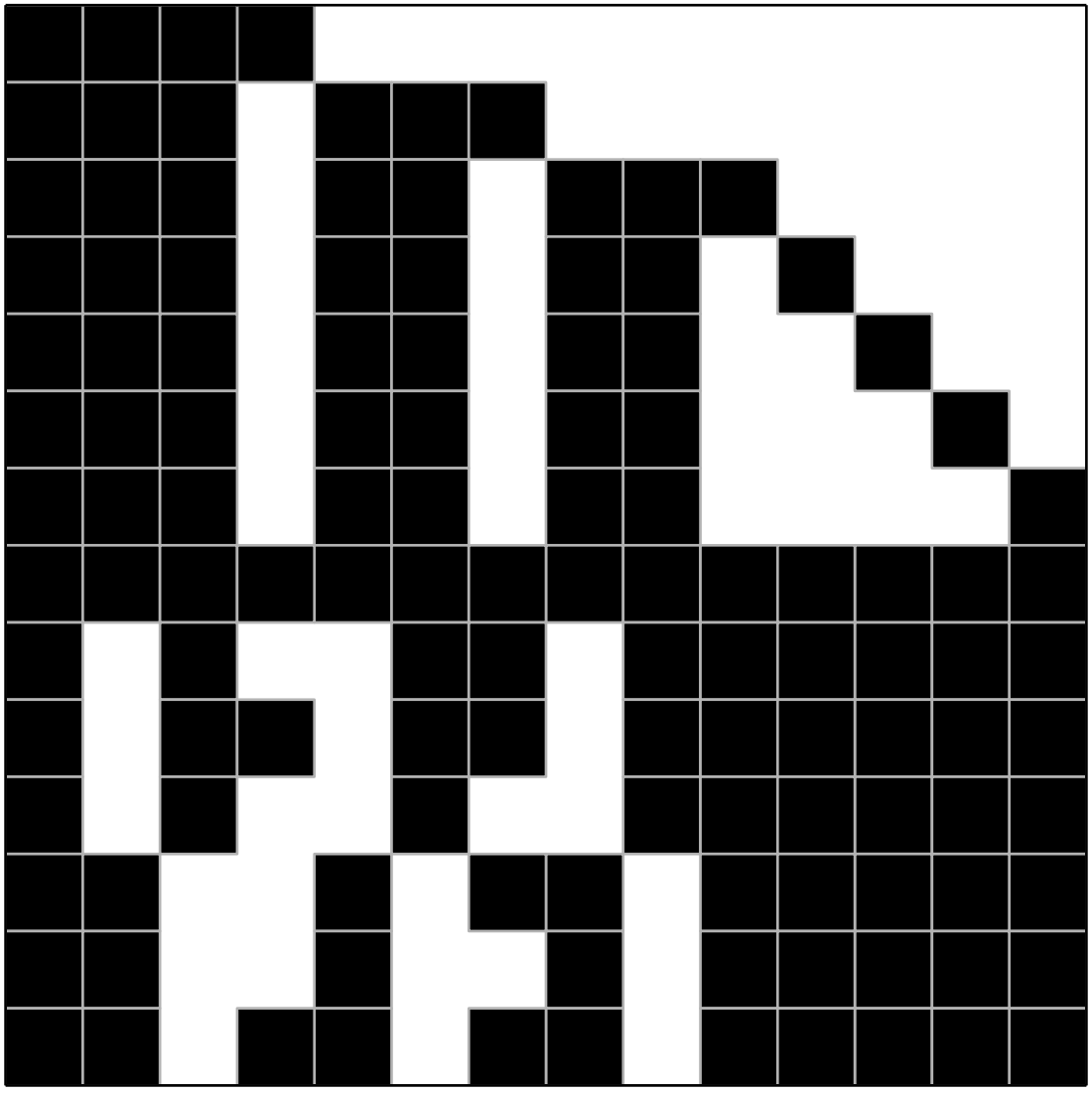
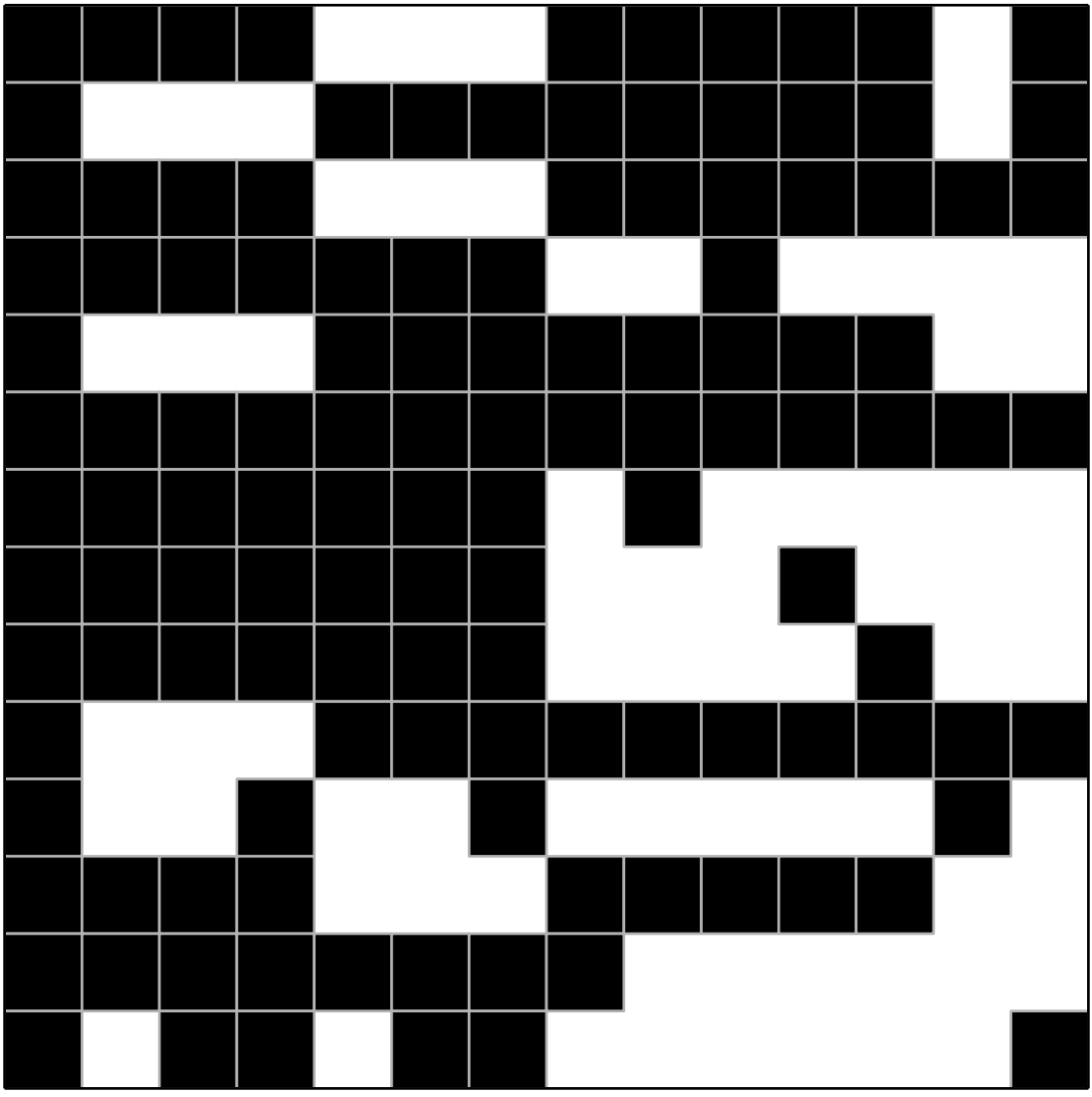
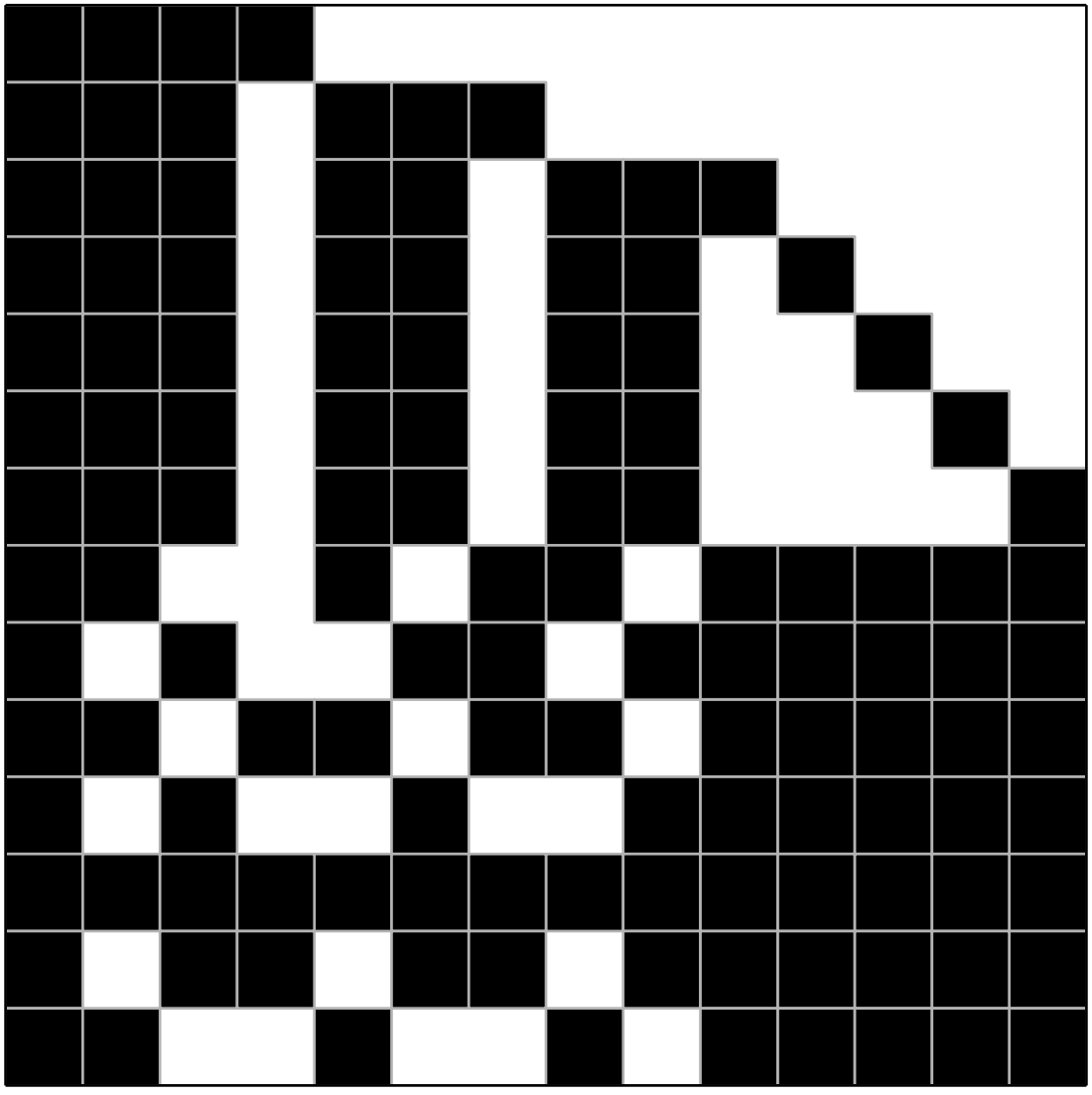


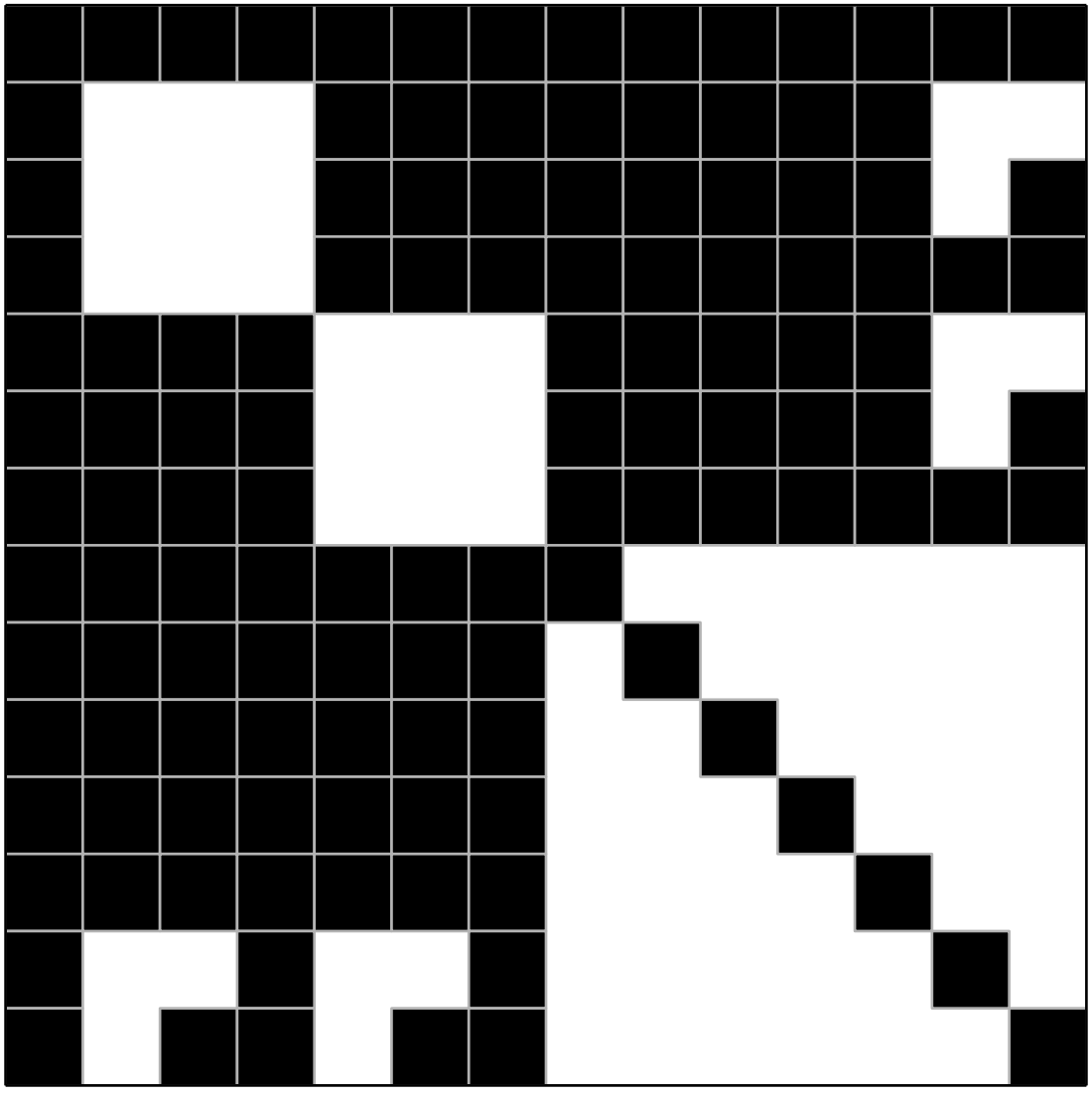
lib3_enfant1-09 14x14 (124) con: 7, var: 7



lib3_enfant1-09, cost: 7, diff: 7, explored: 3, time: 0.00s



lib3_enfant1-IN 14x14 (124) con: 7, var: 7



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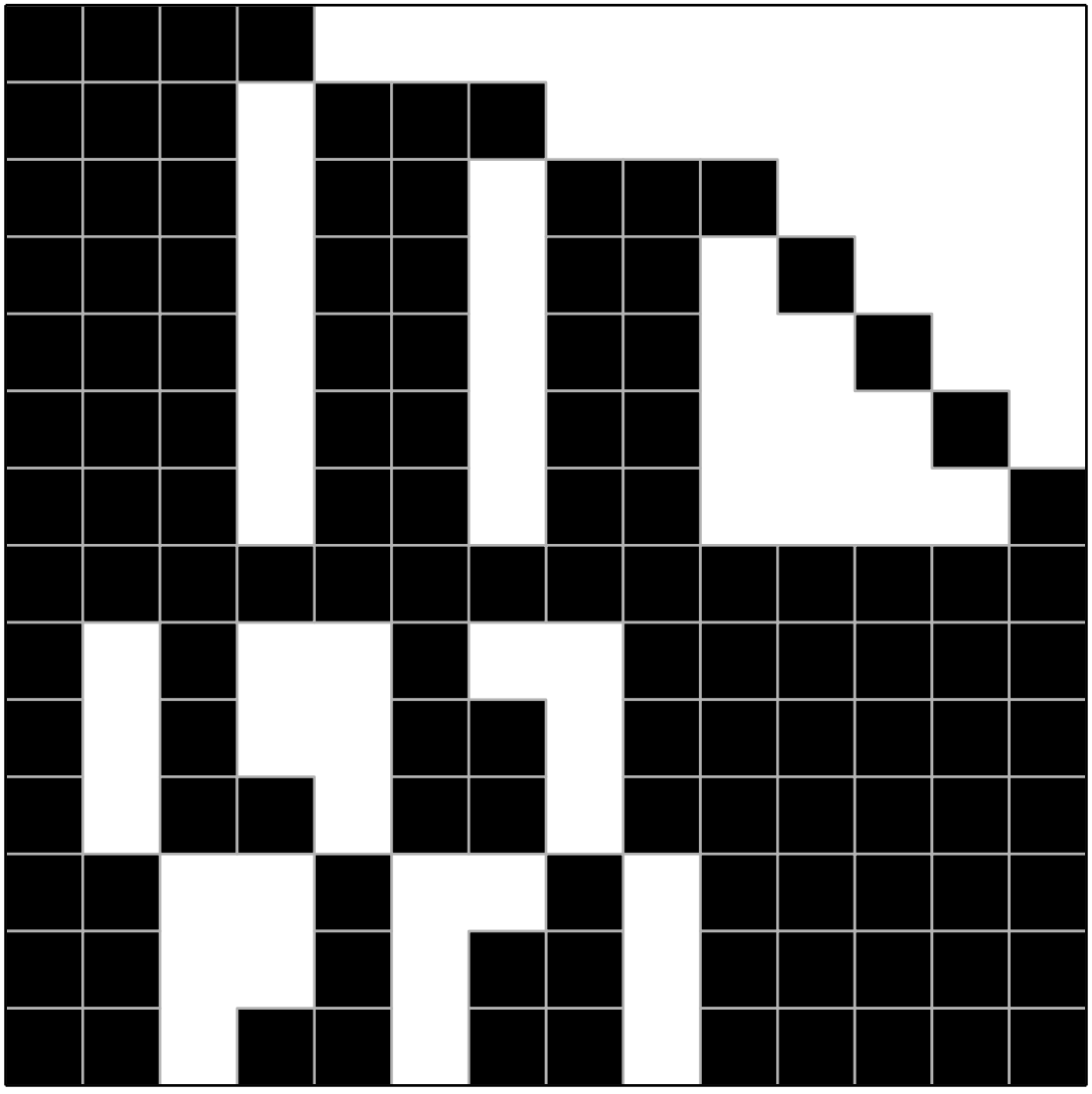
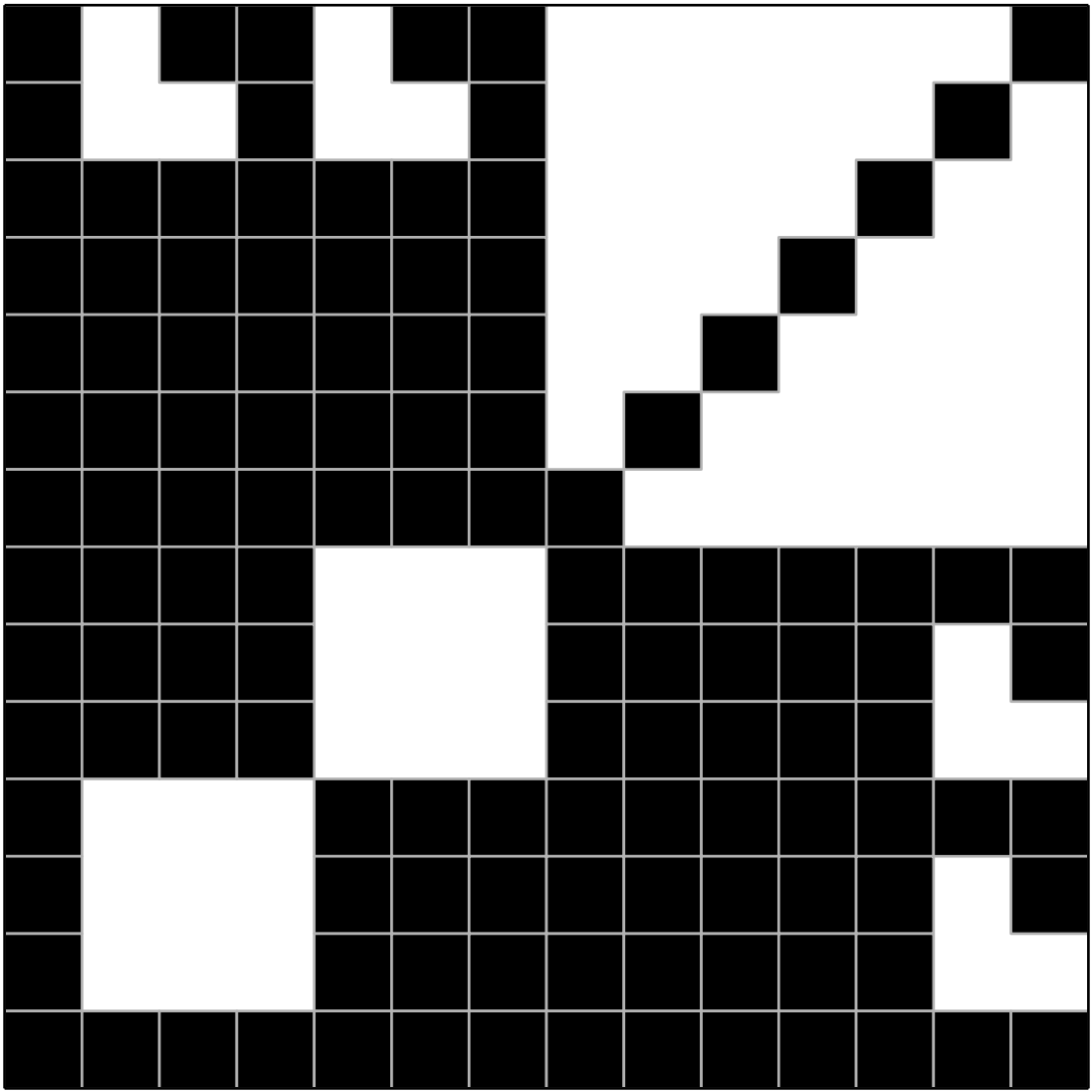
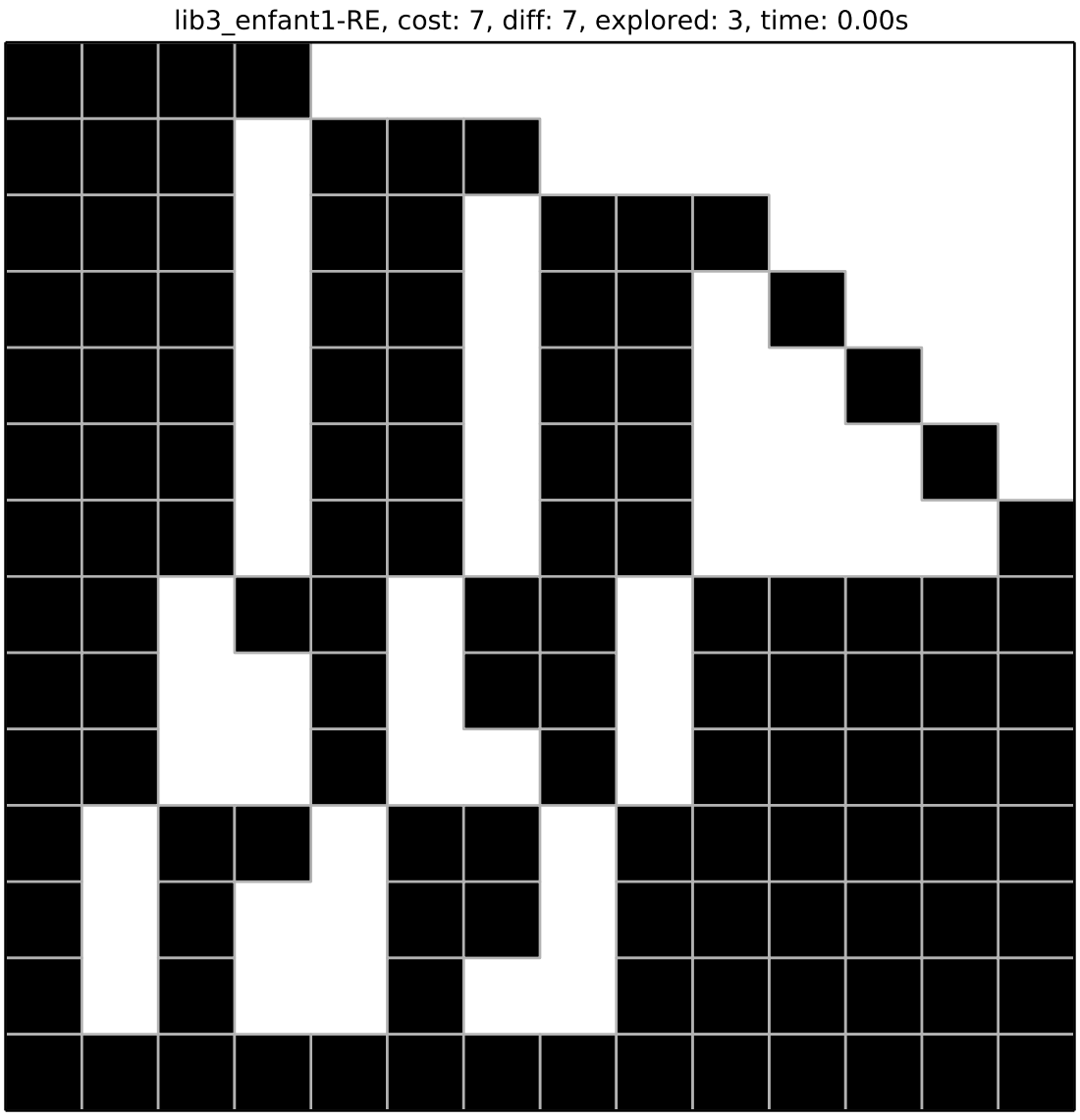


lib3_enfant1-RE 14x14 (124) con: 7, var: 7

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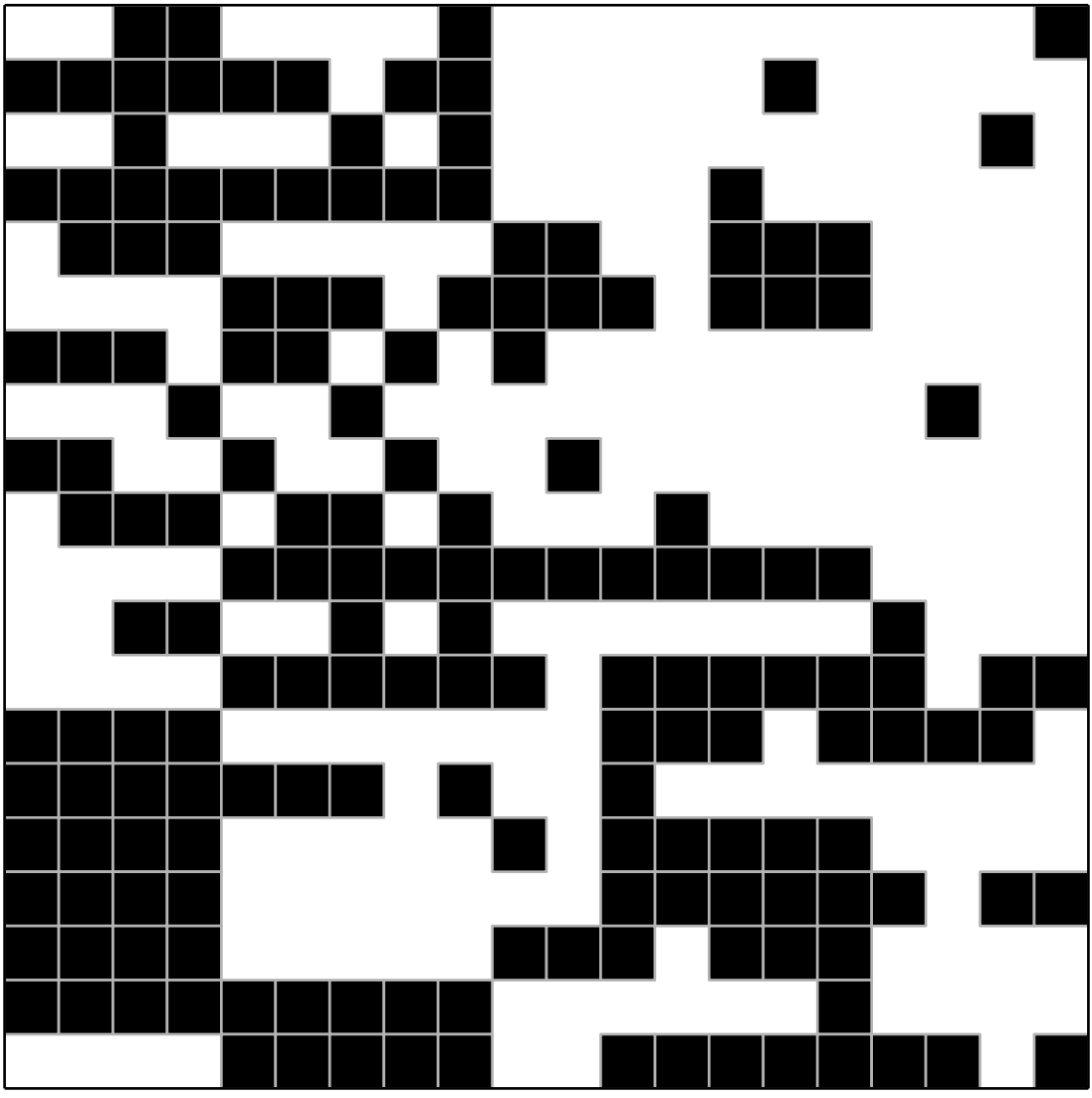
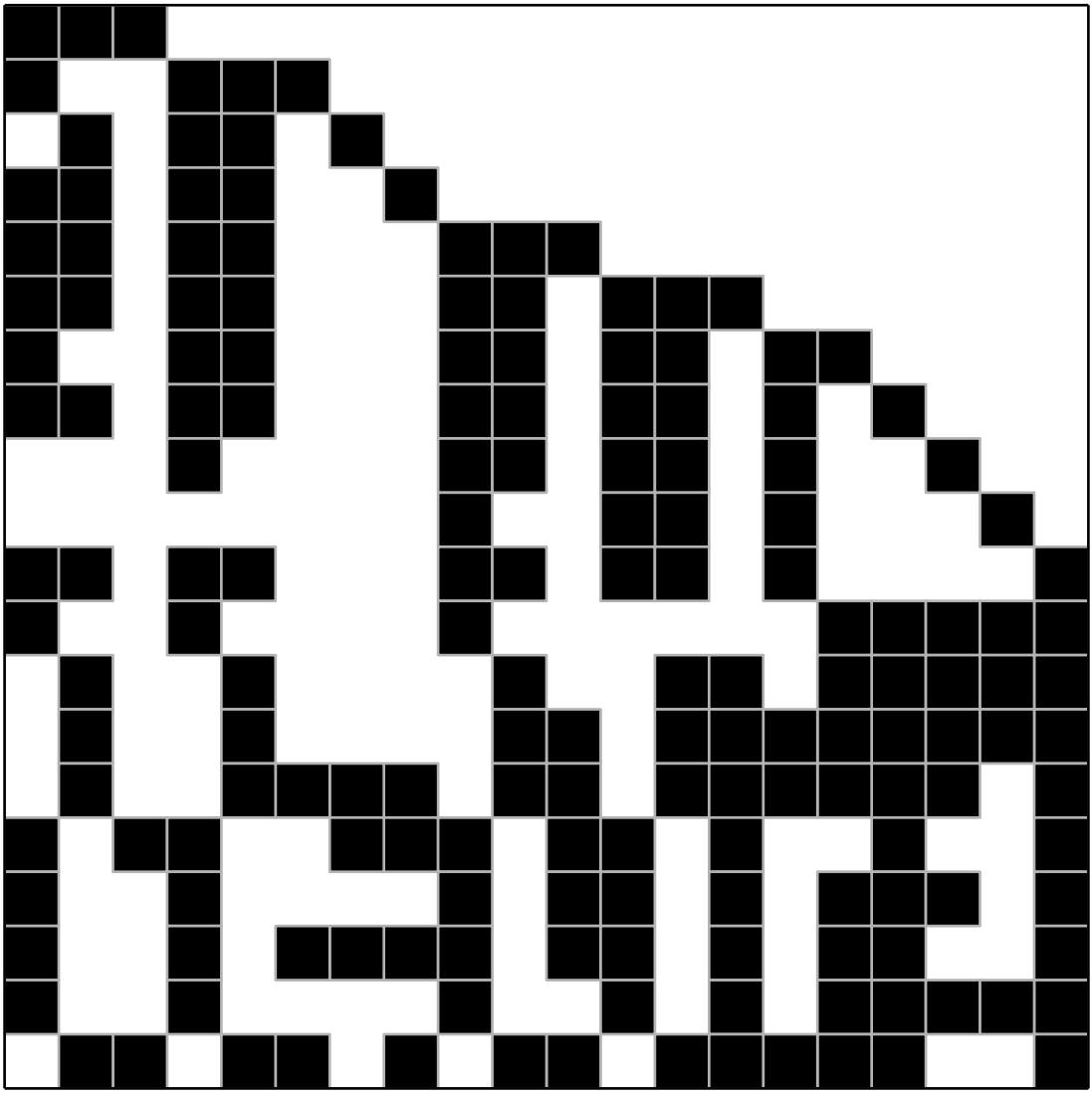
lib3_enfant2-00 20x20 (173) con: 11, var: 9

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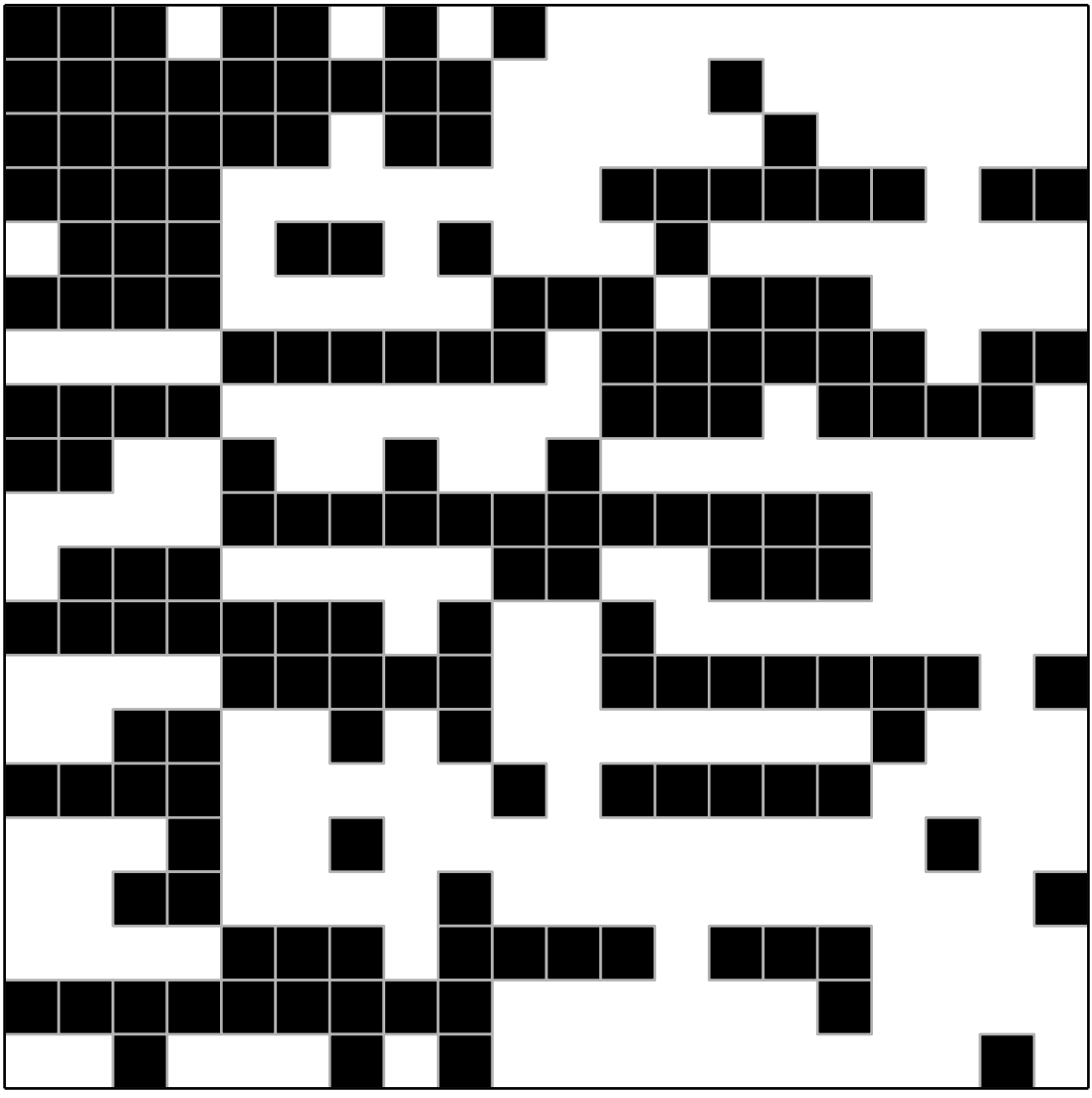
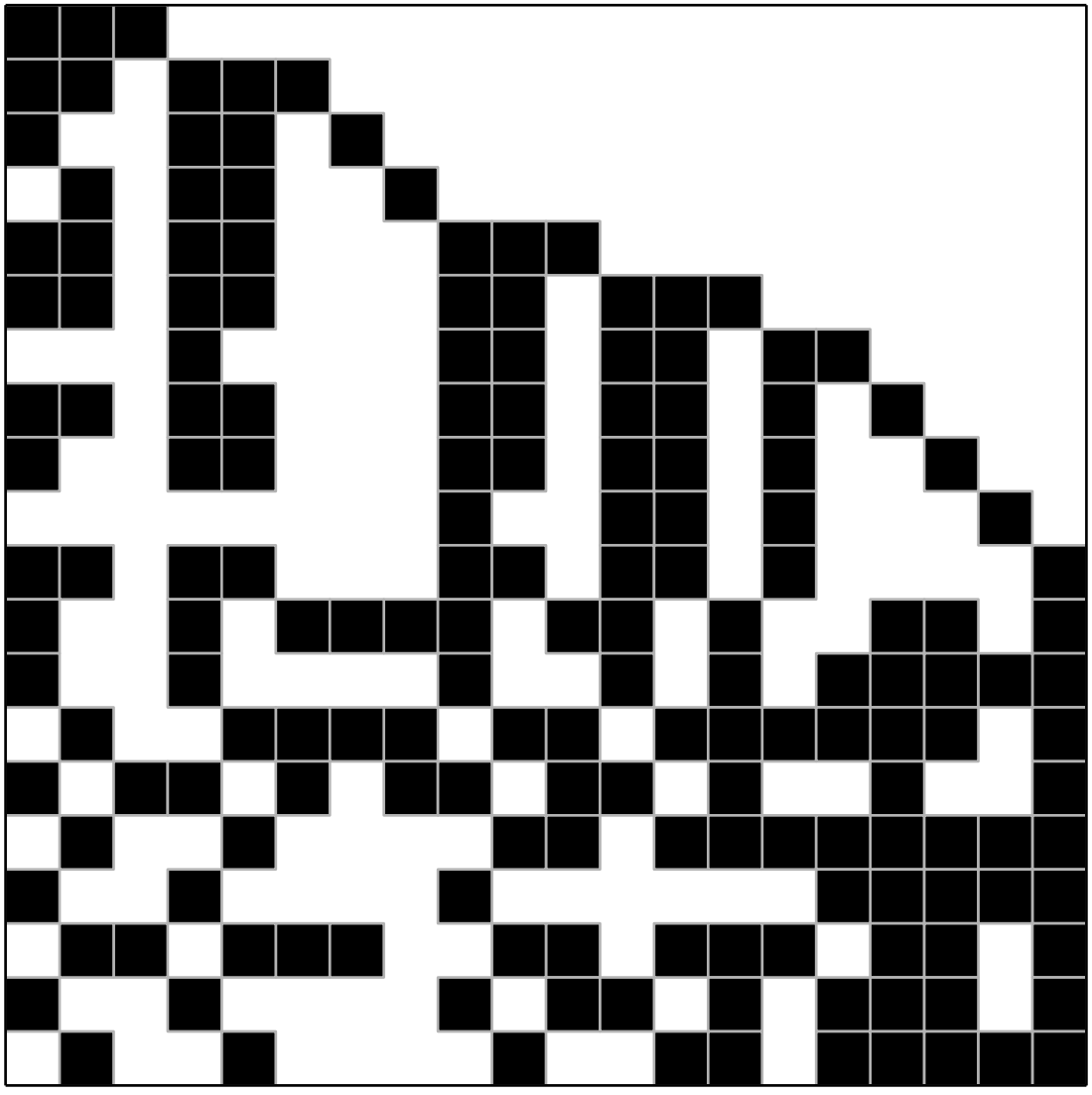
lib3_enfant2-01 20x20 (173) con: 11, var: 9

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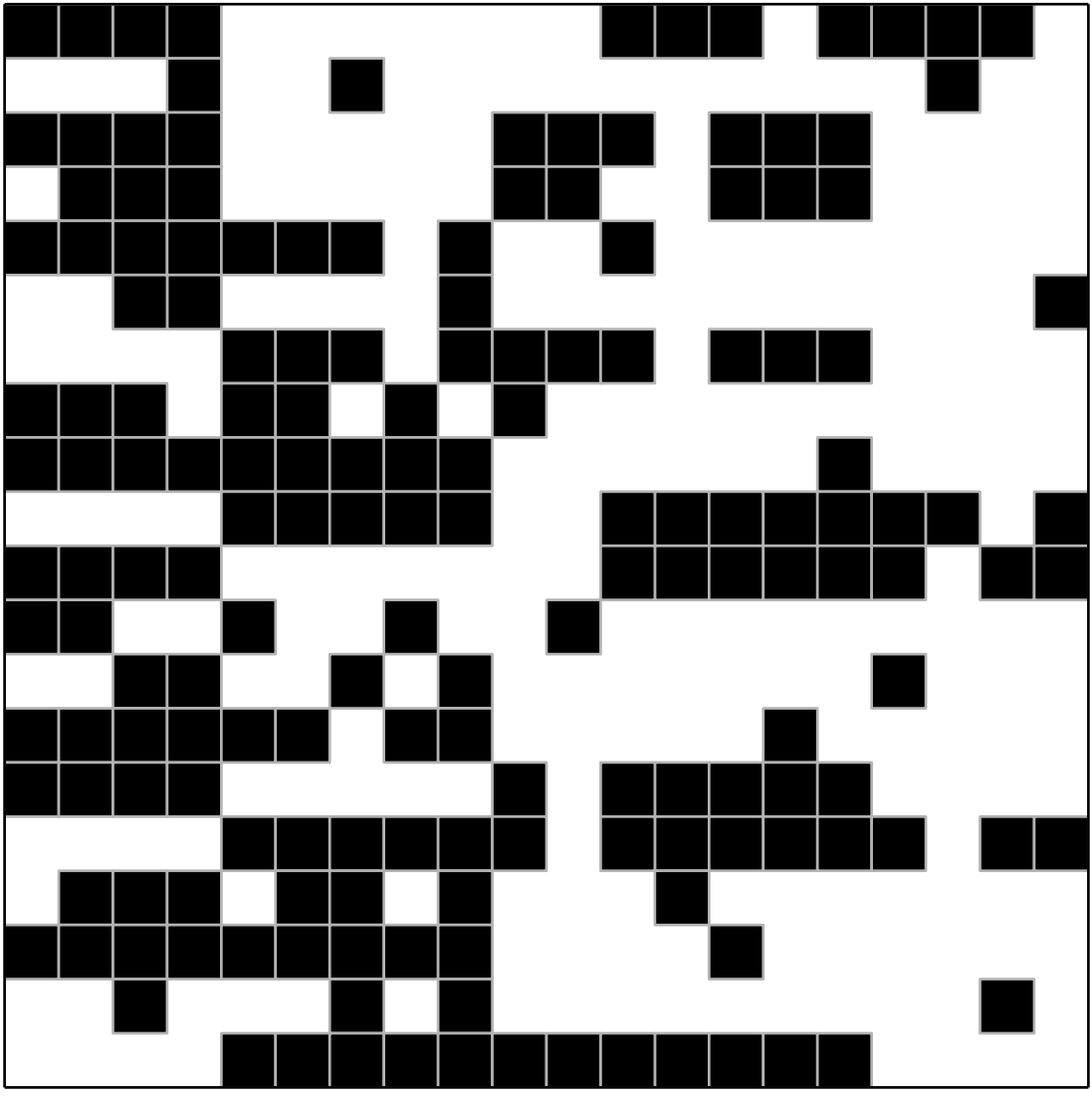
lib3_enfant2-02 20x20 (173) con: 11, var: 9



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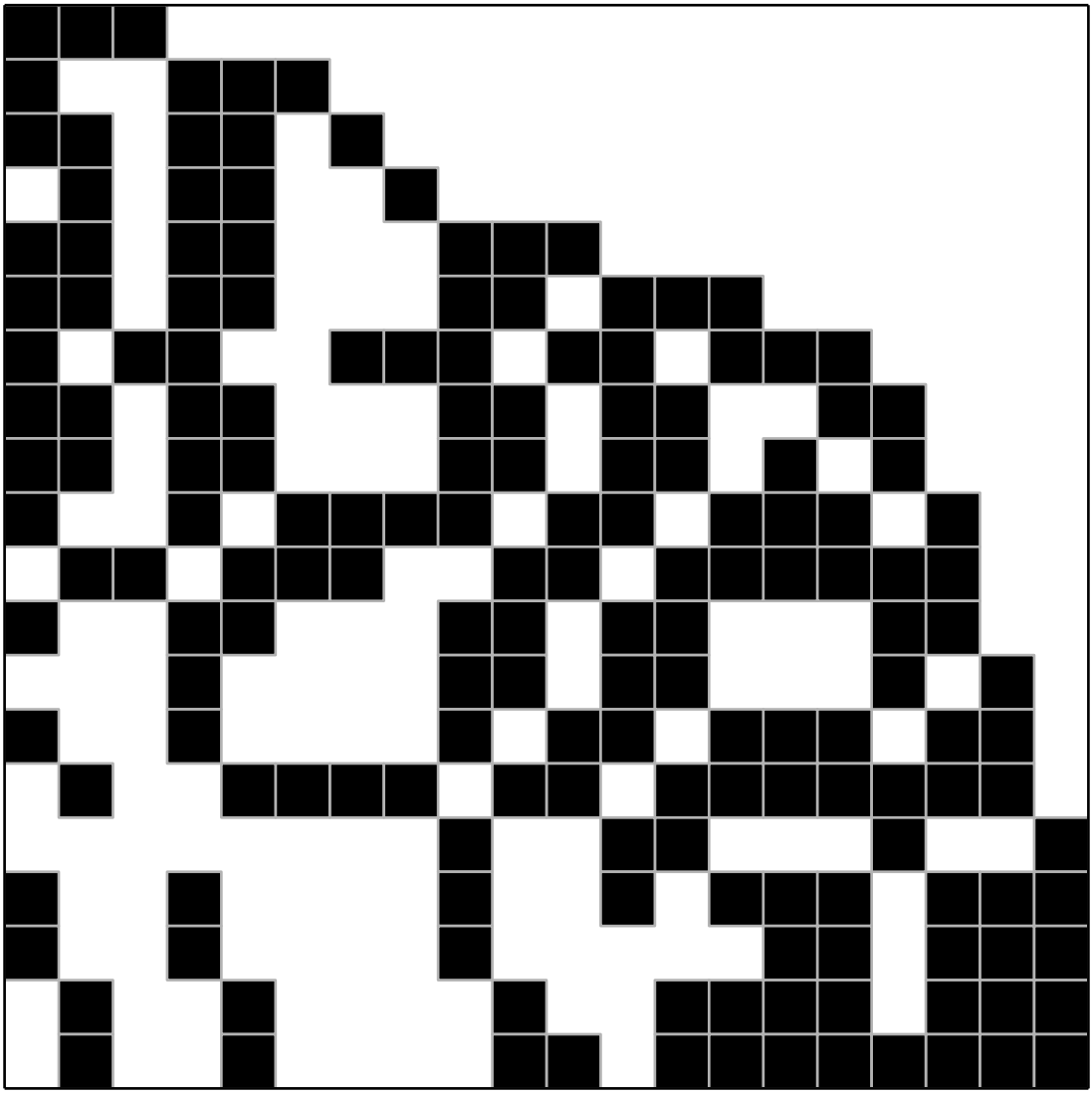
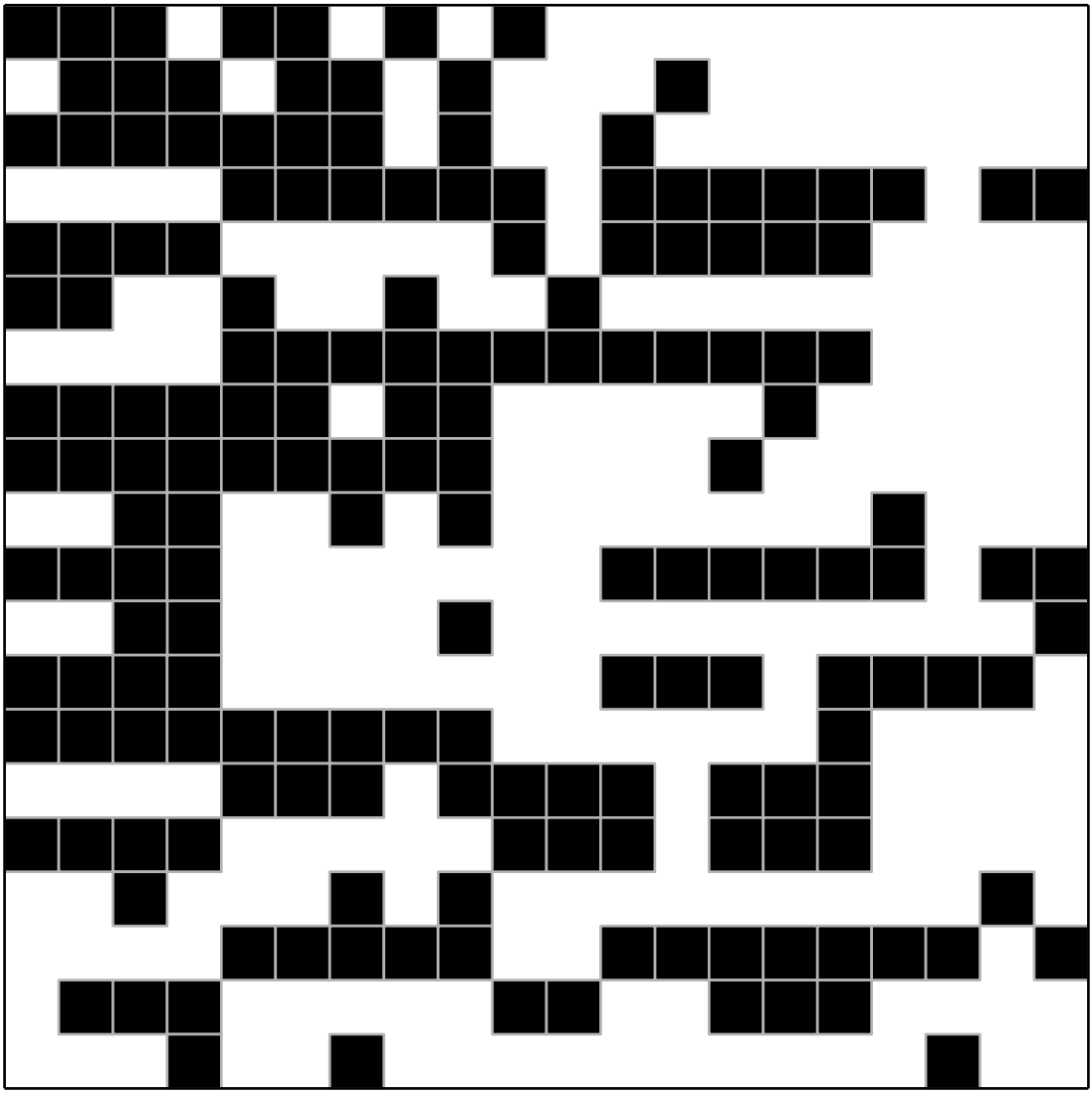
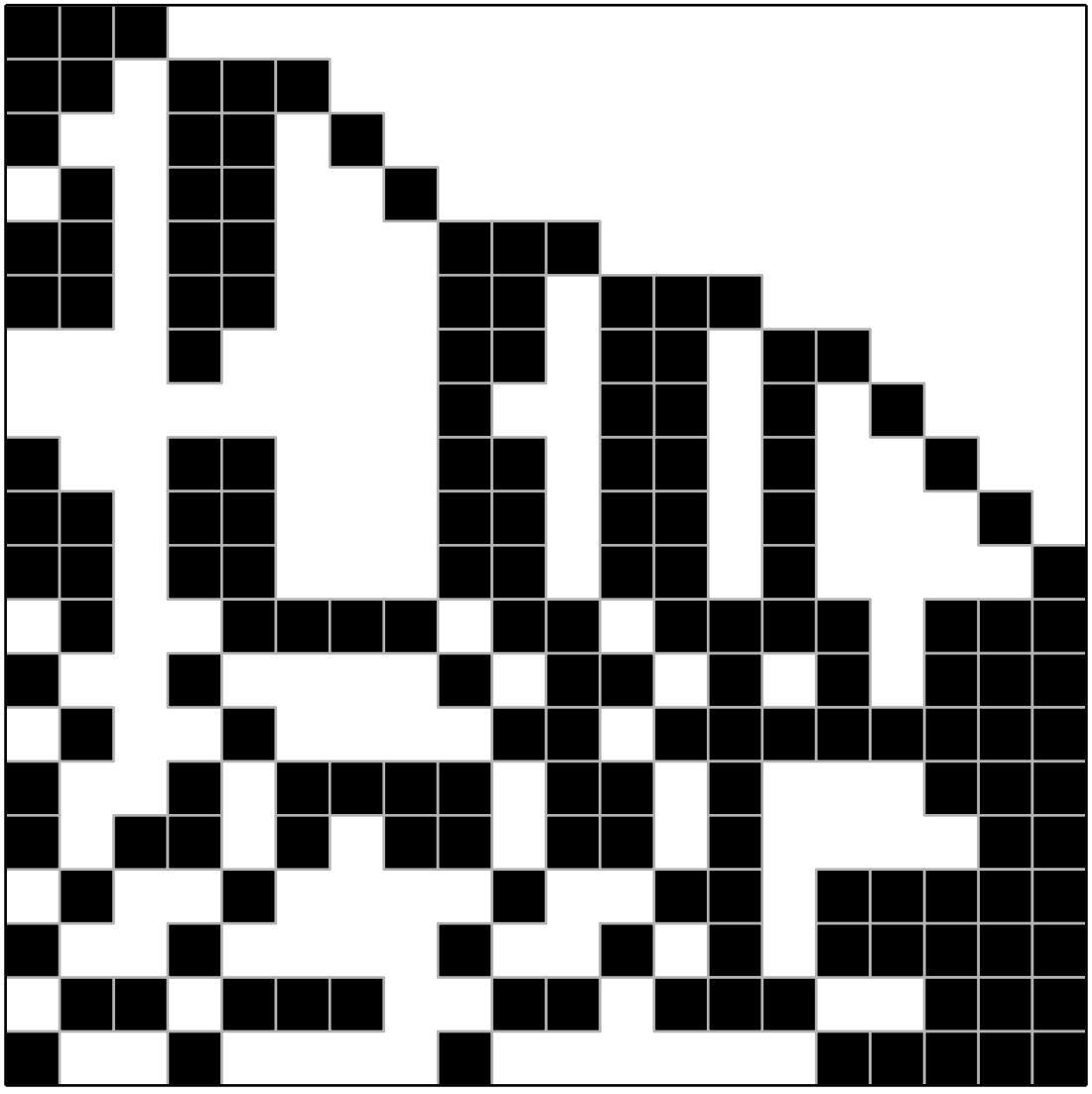


lib3_enfant2-03 20x20 (173) con: 11, var: 9

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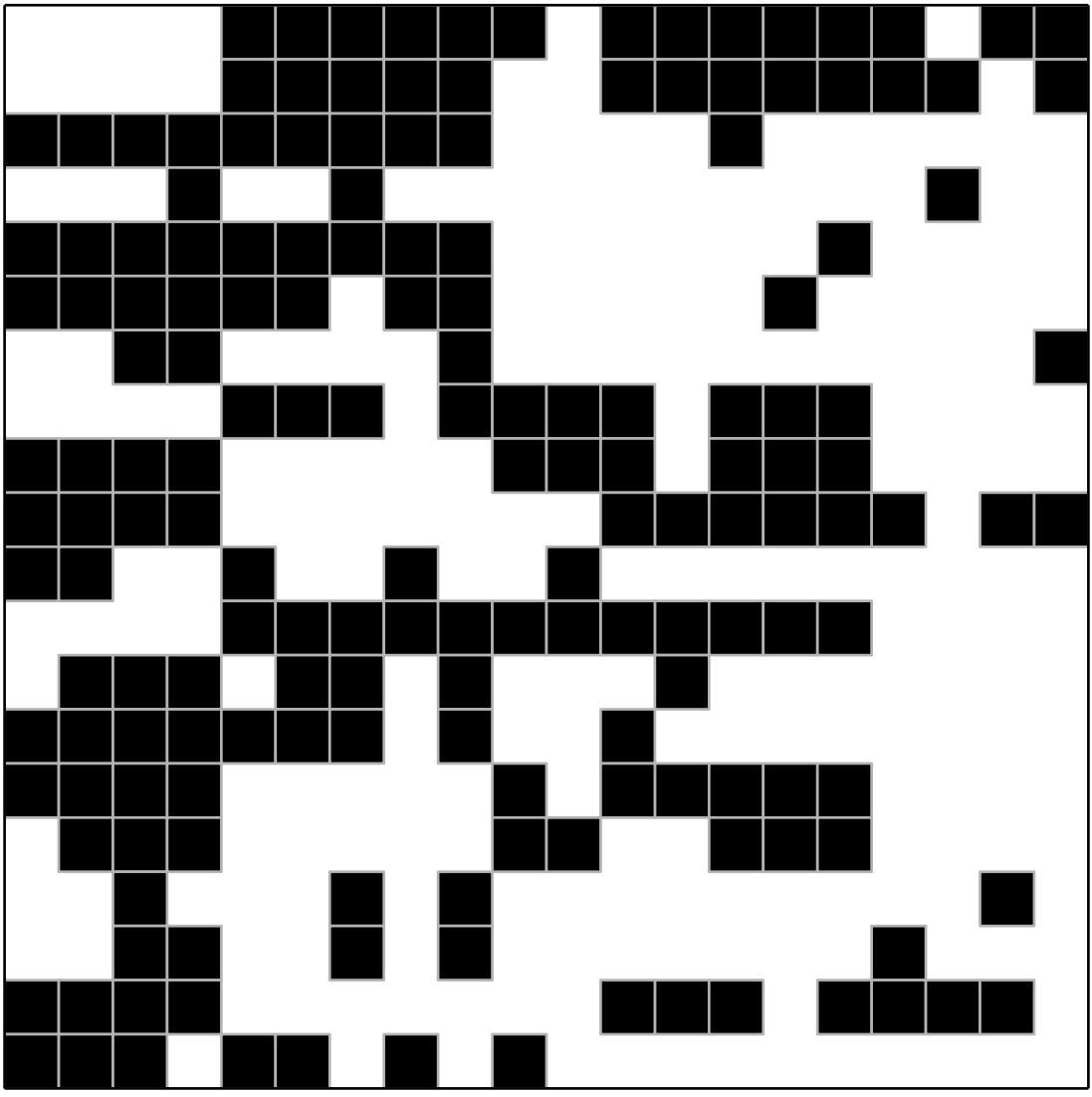
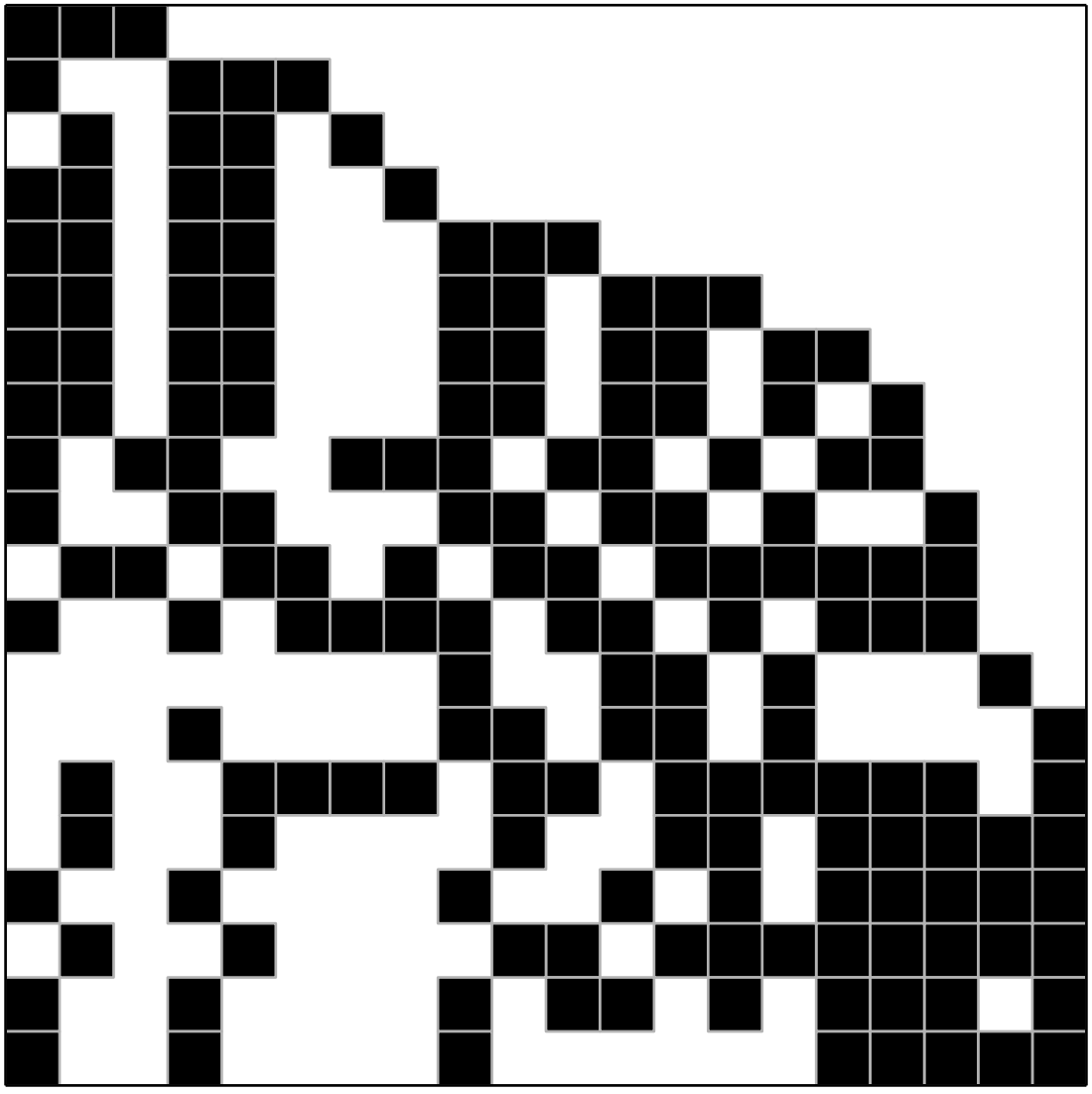
lib3_enfant2-04 20x20 (173) con: 11, var: 9

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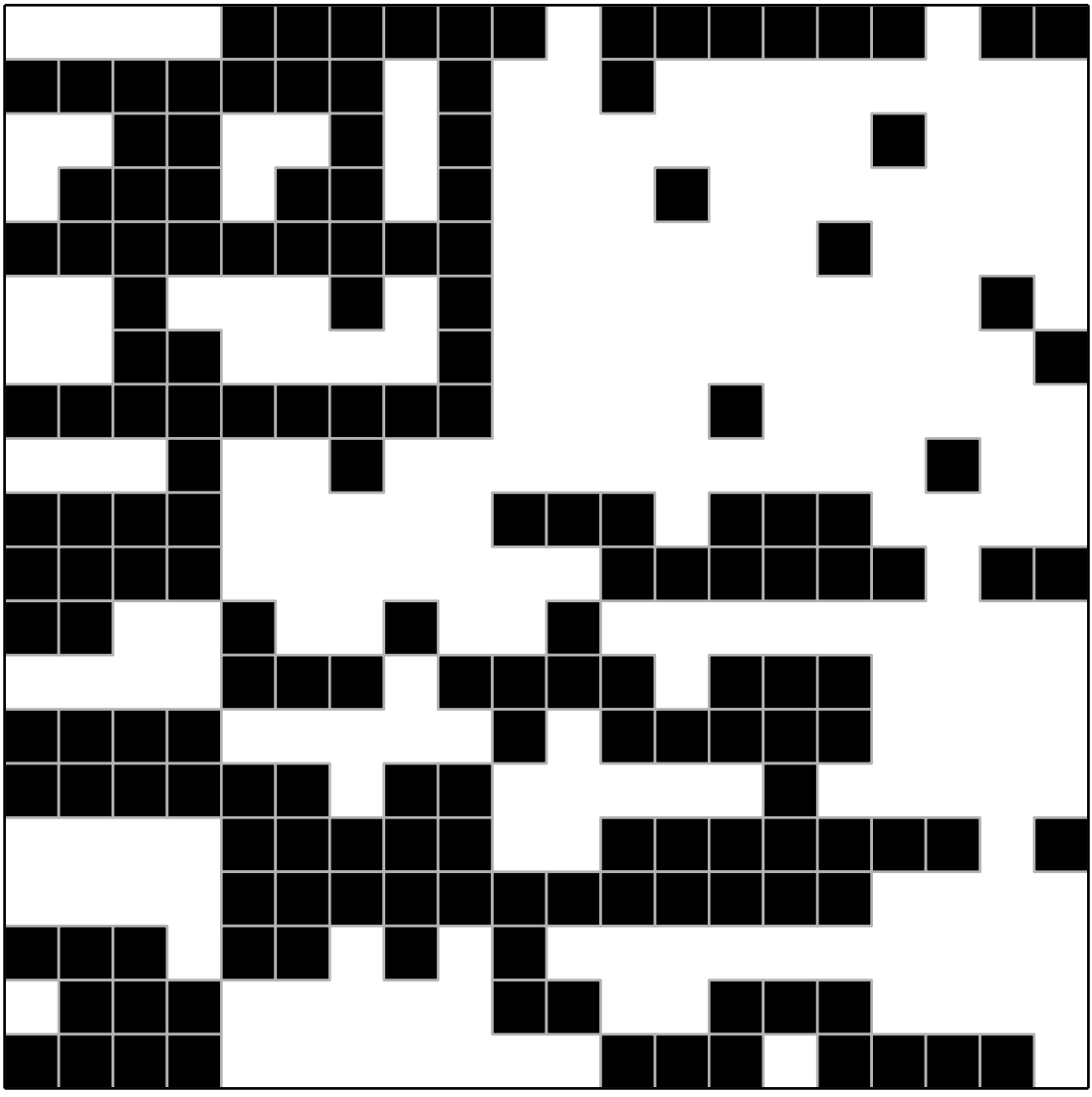

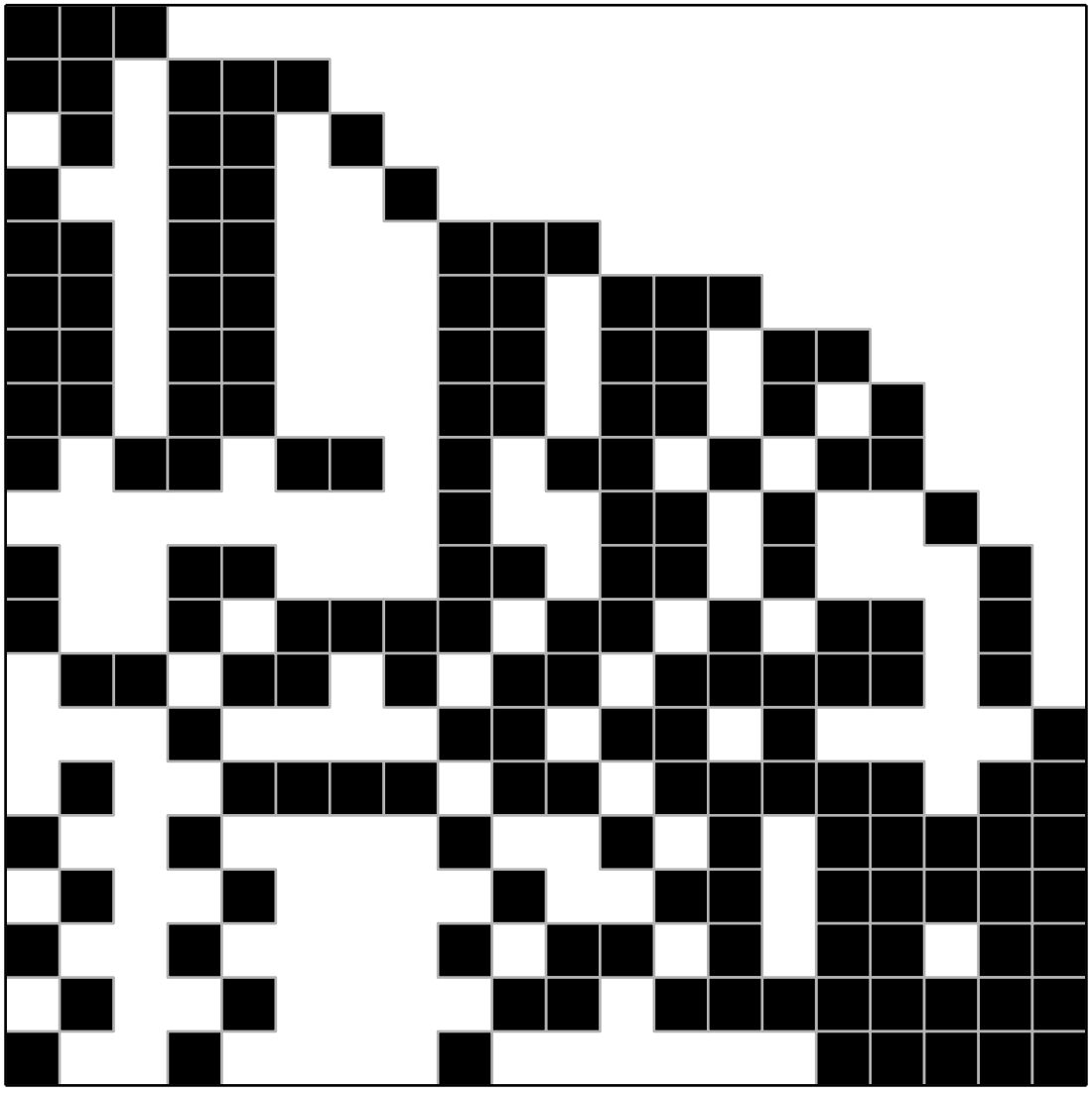
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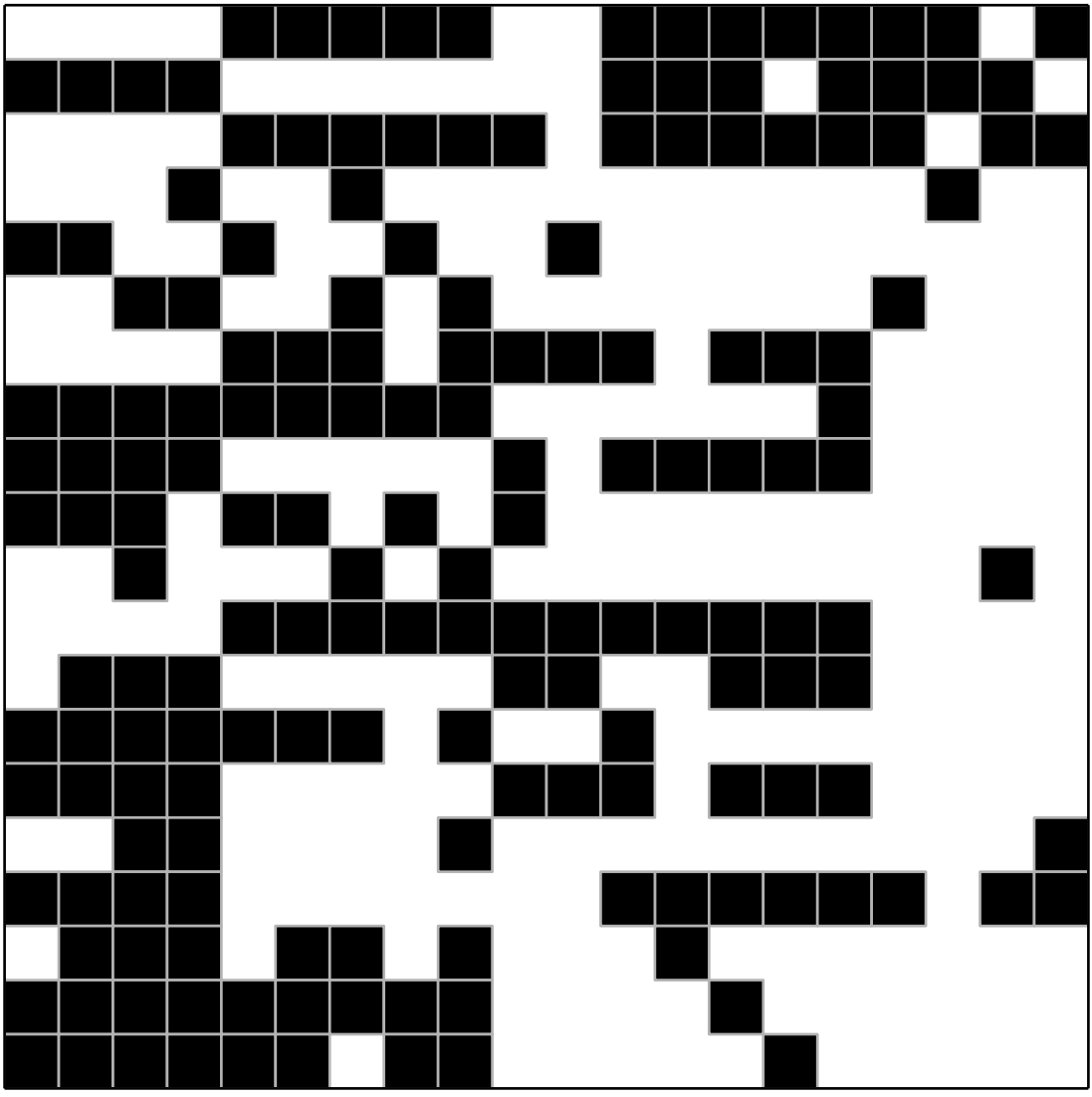
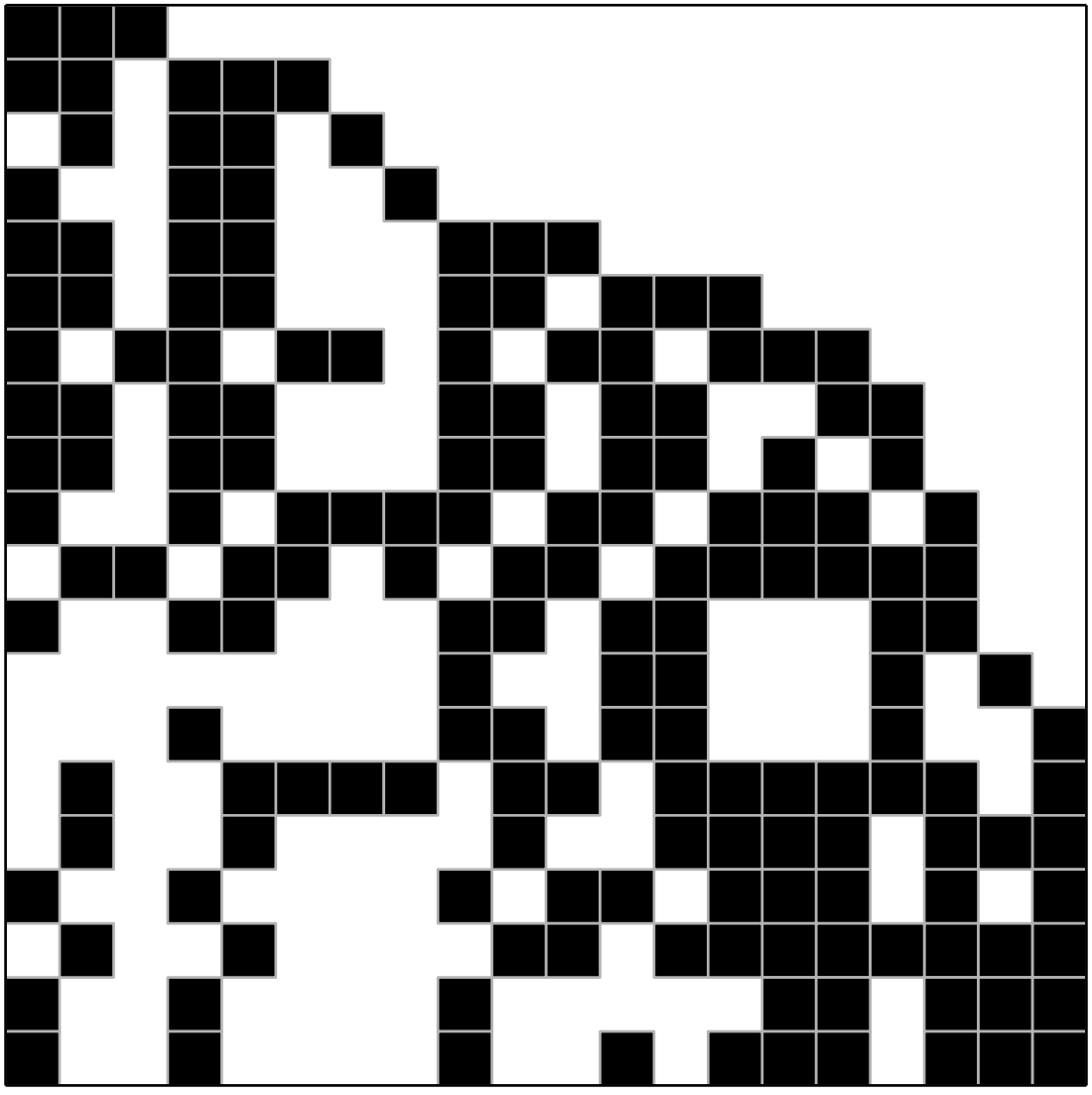
lib3_enfant2-06 20x20 (173) con: 11, var: 9

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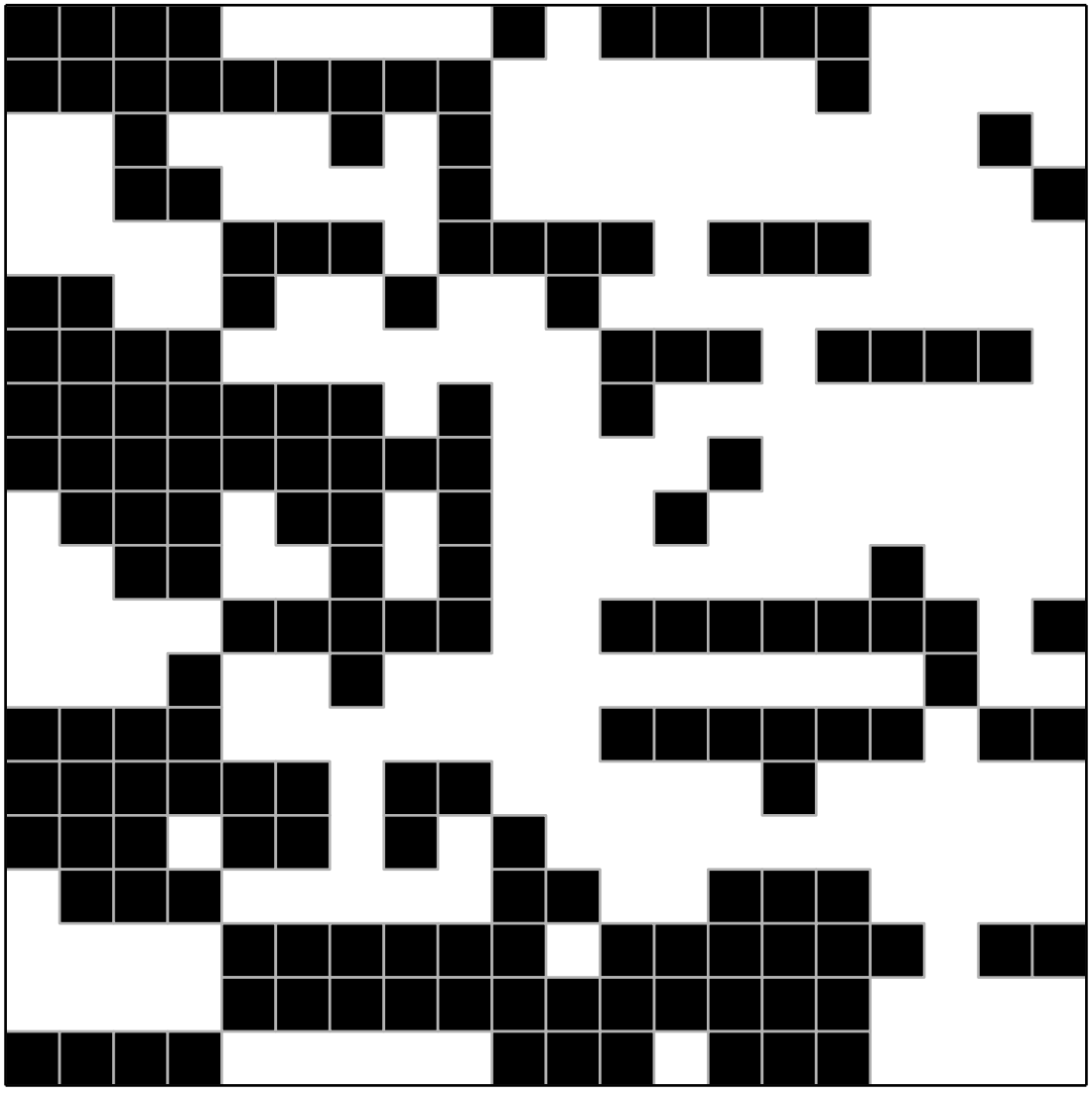
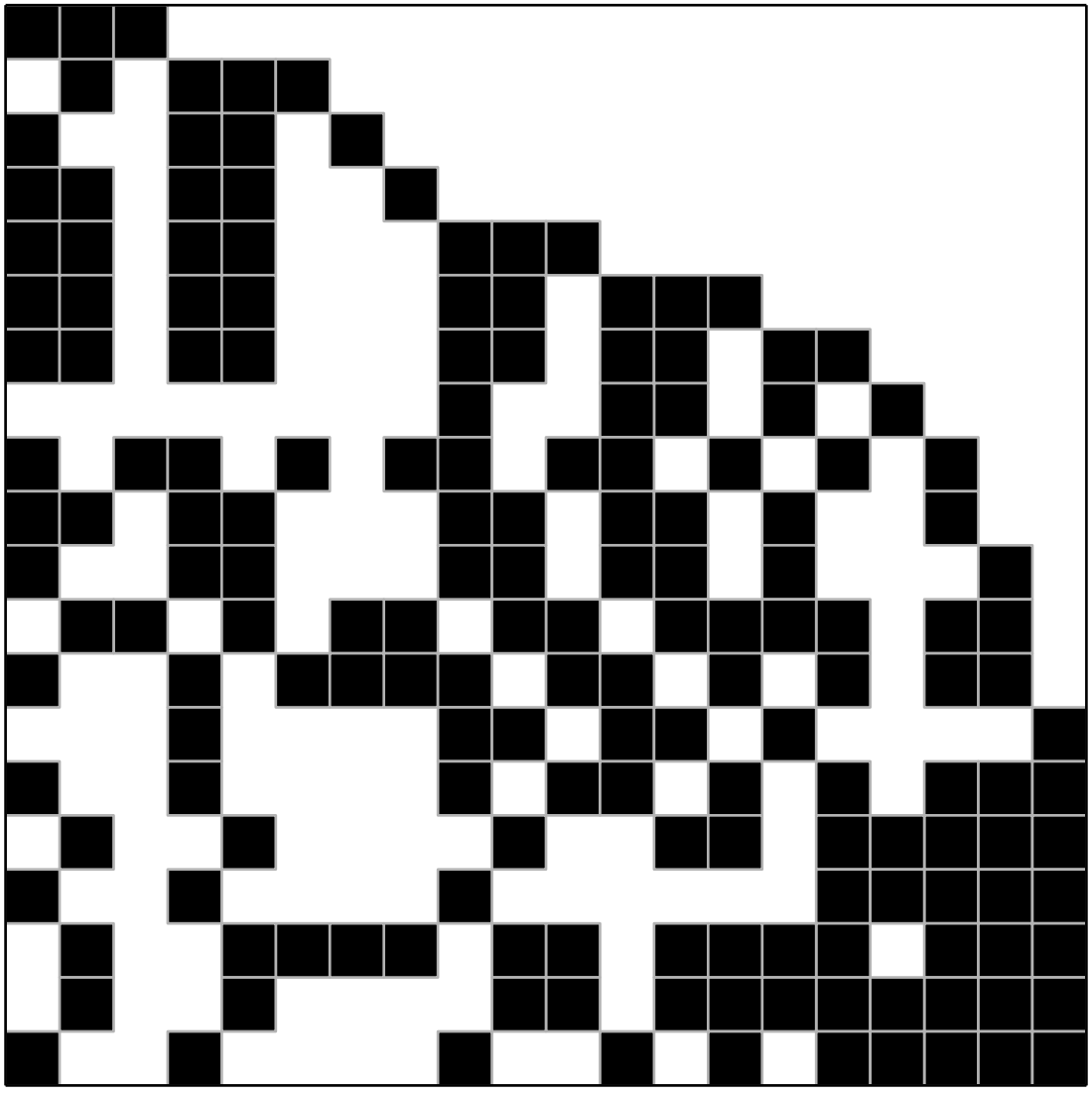
lib3_enfant2-07 20x20 (173) con: 11, var: 9

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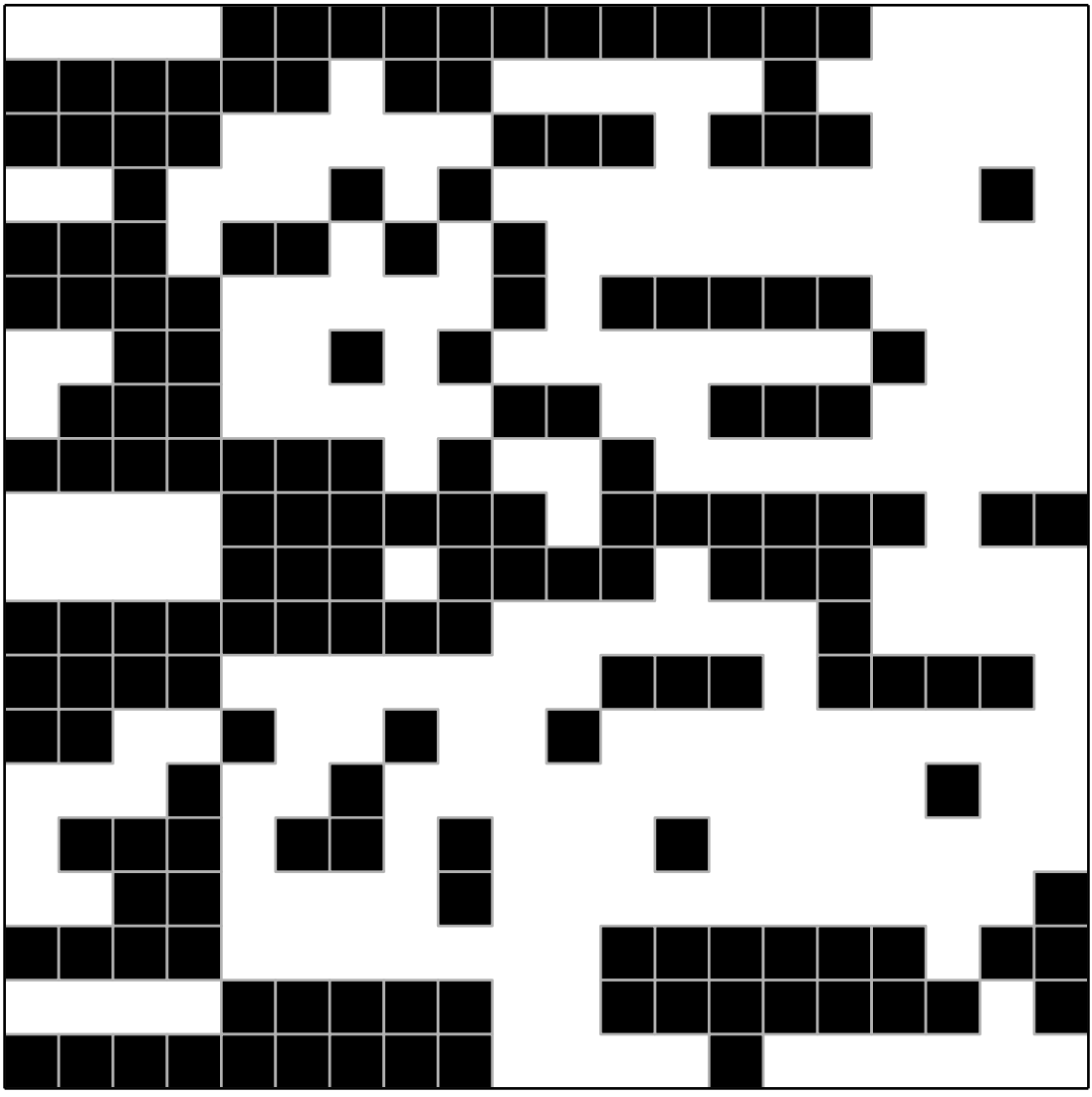
lib3_enfant2-08 20x20 (173) con: 11, var: 9



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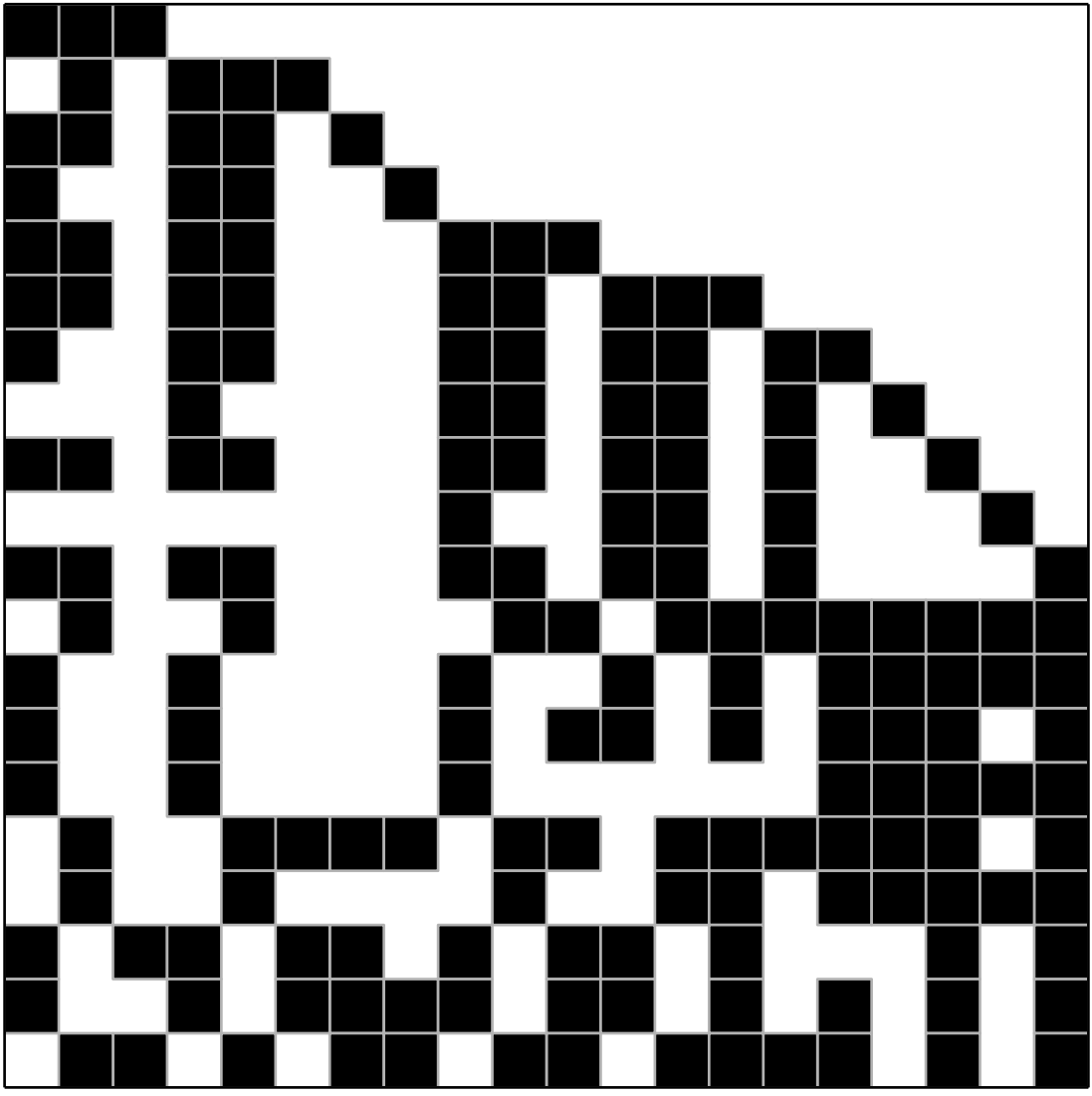
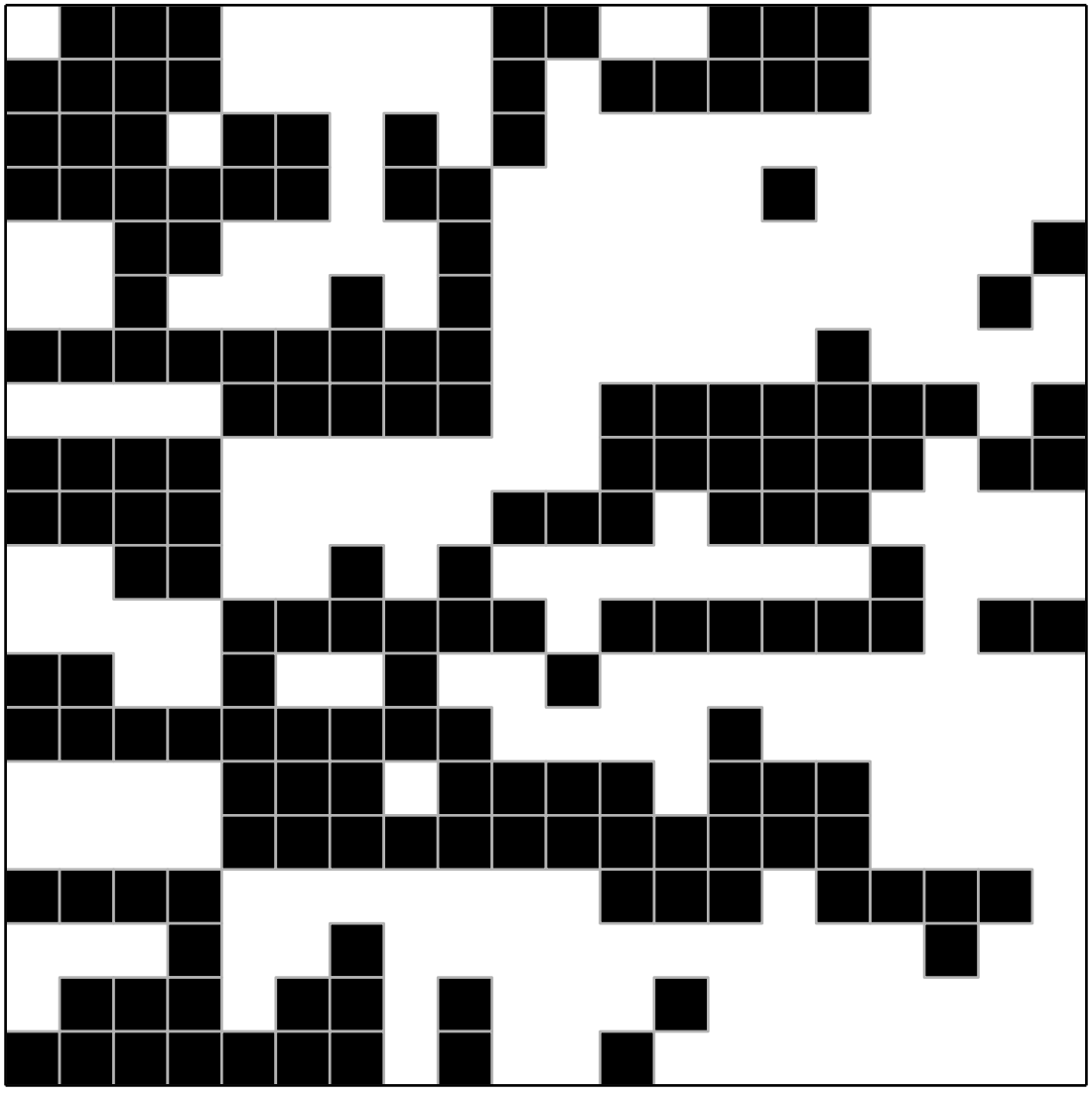
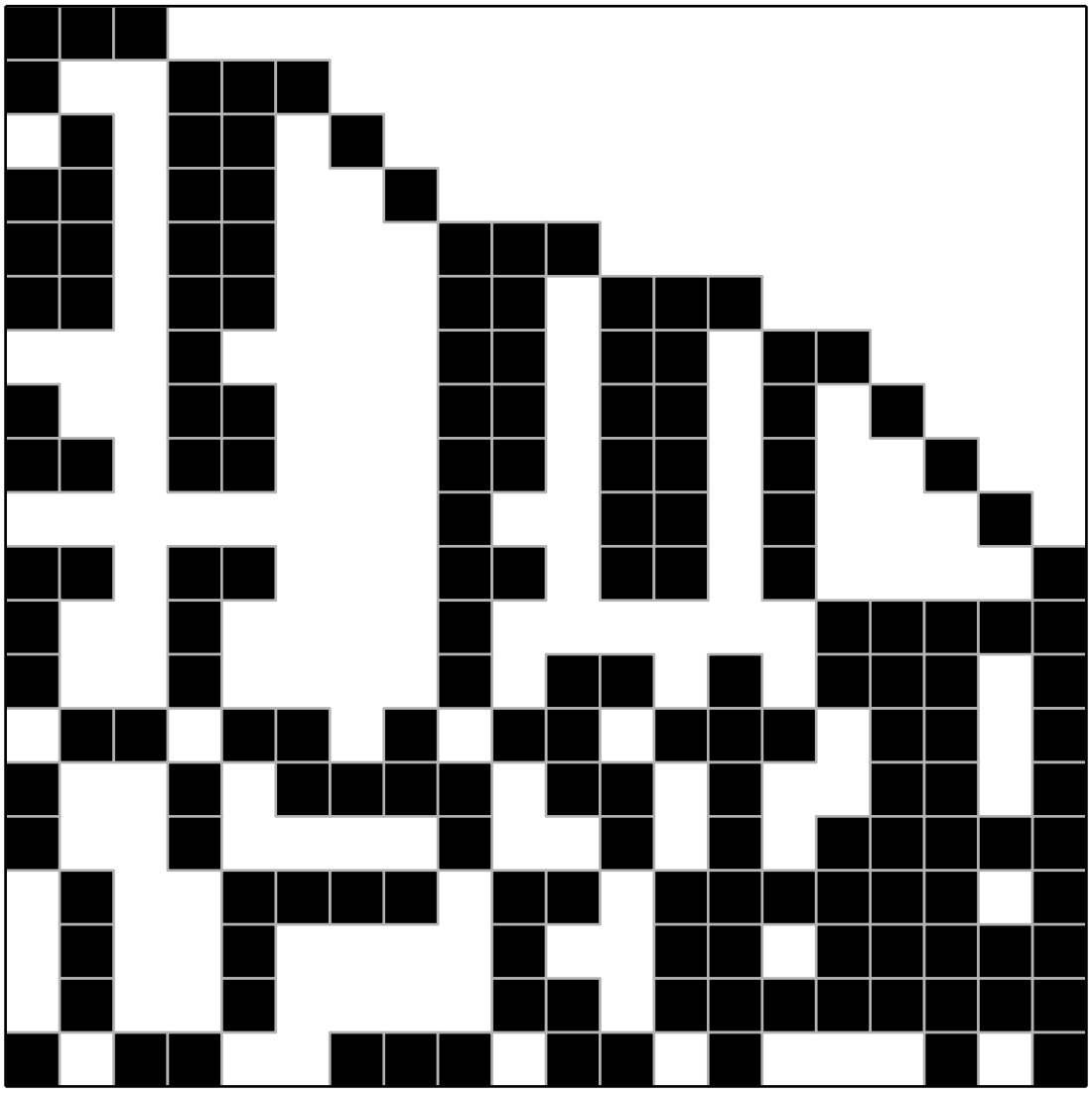


lib3_enfant2-09 20x20 (173) con: 11, var: 9

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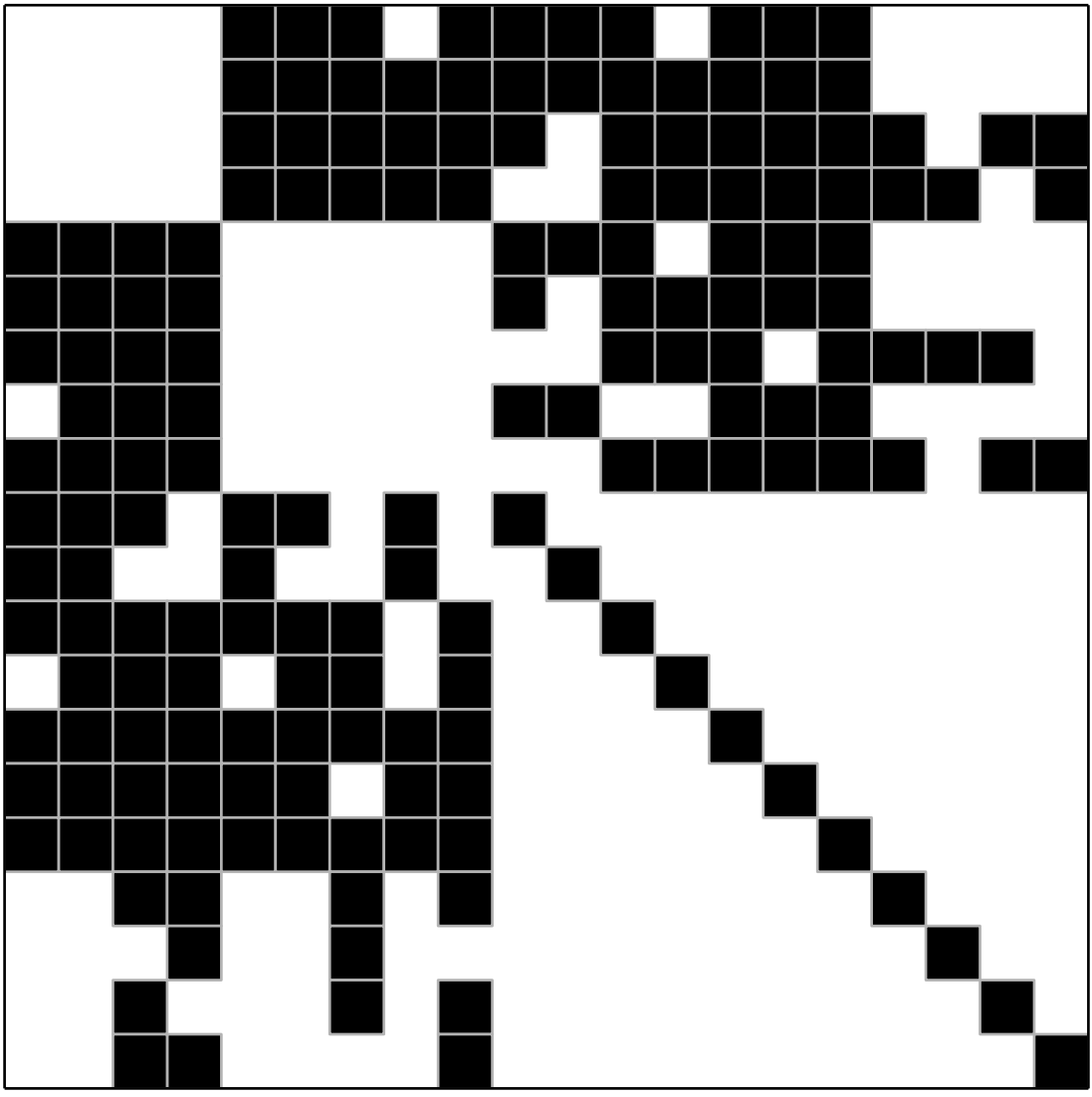
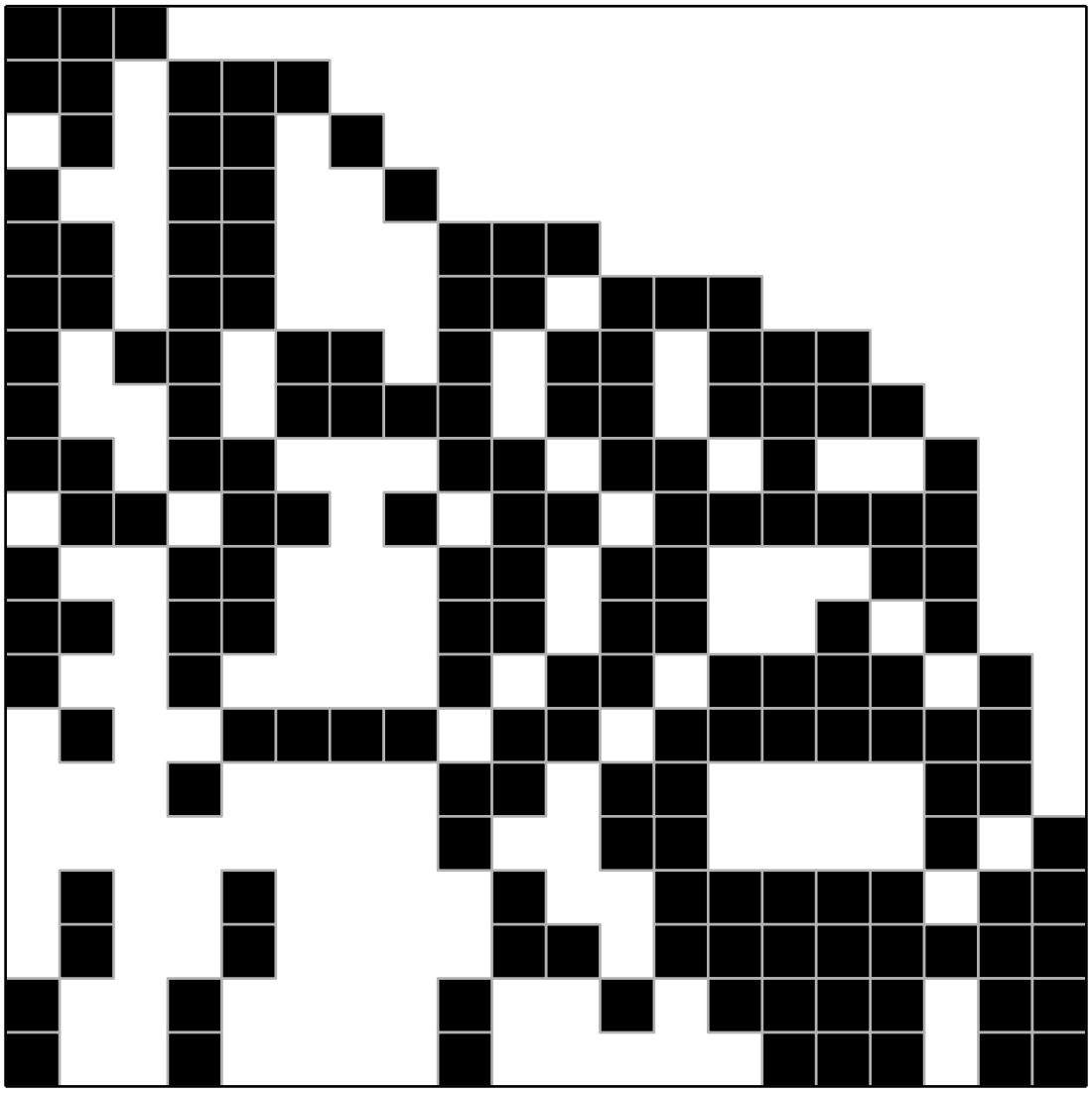
lib3_enfant2-IN 20x20 (173) con: 11, var: 9

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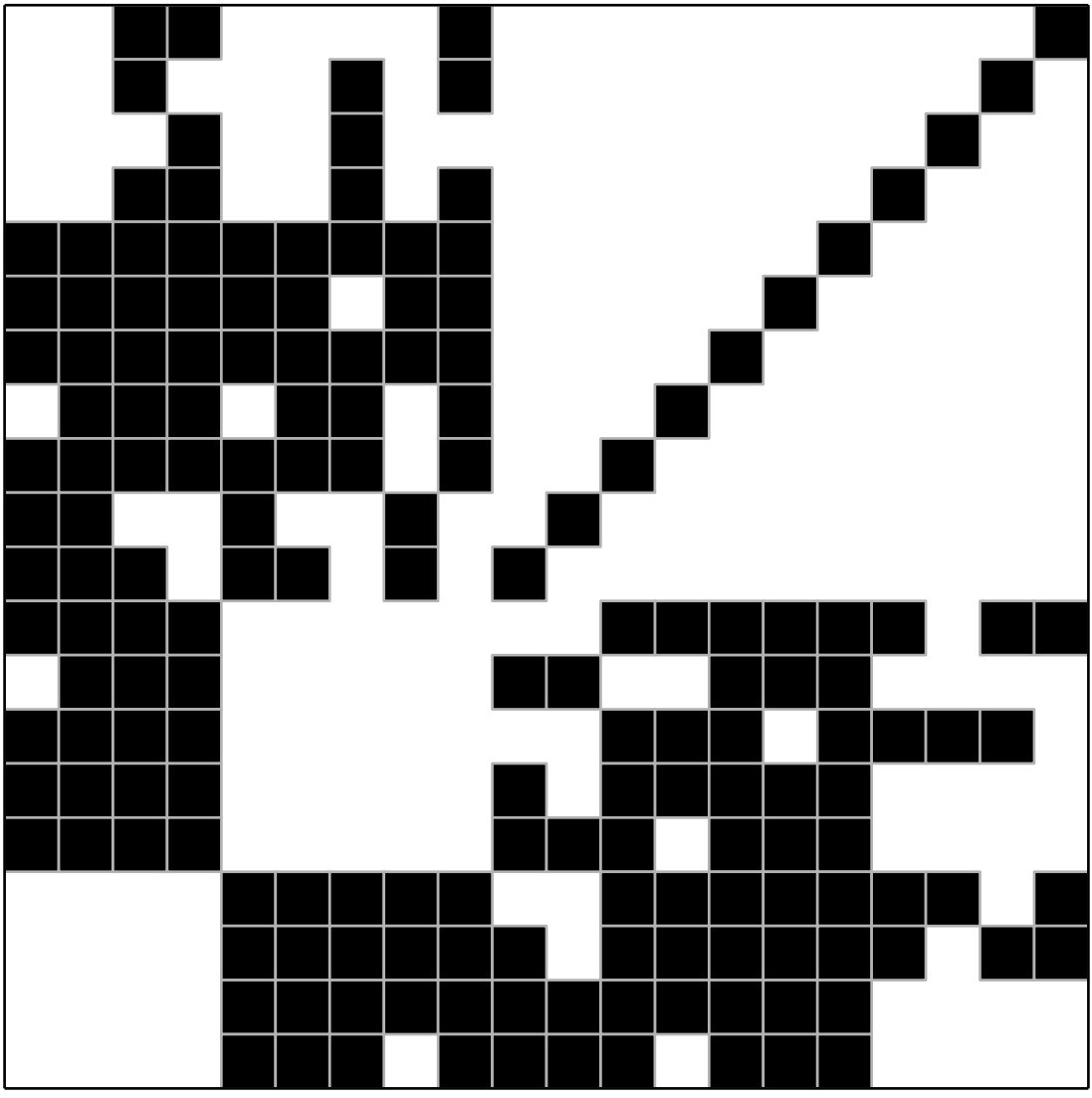
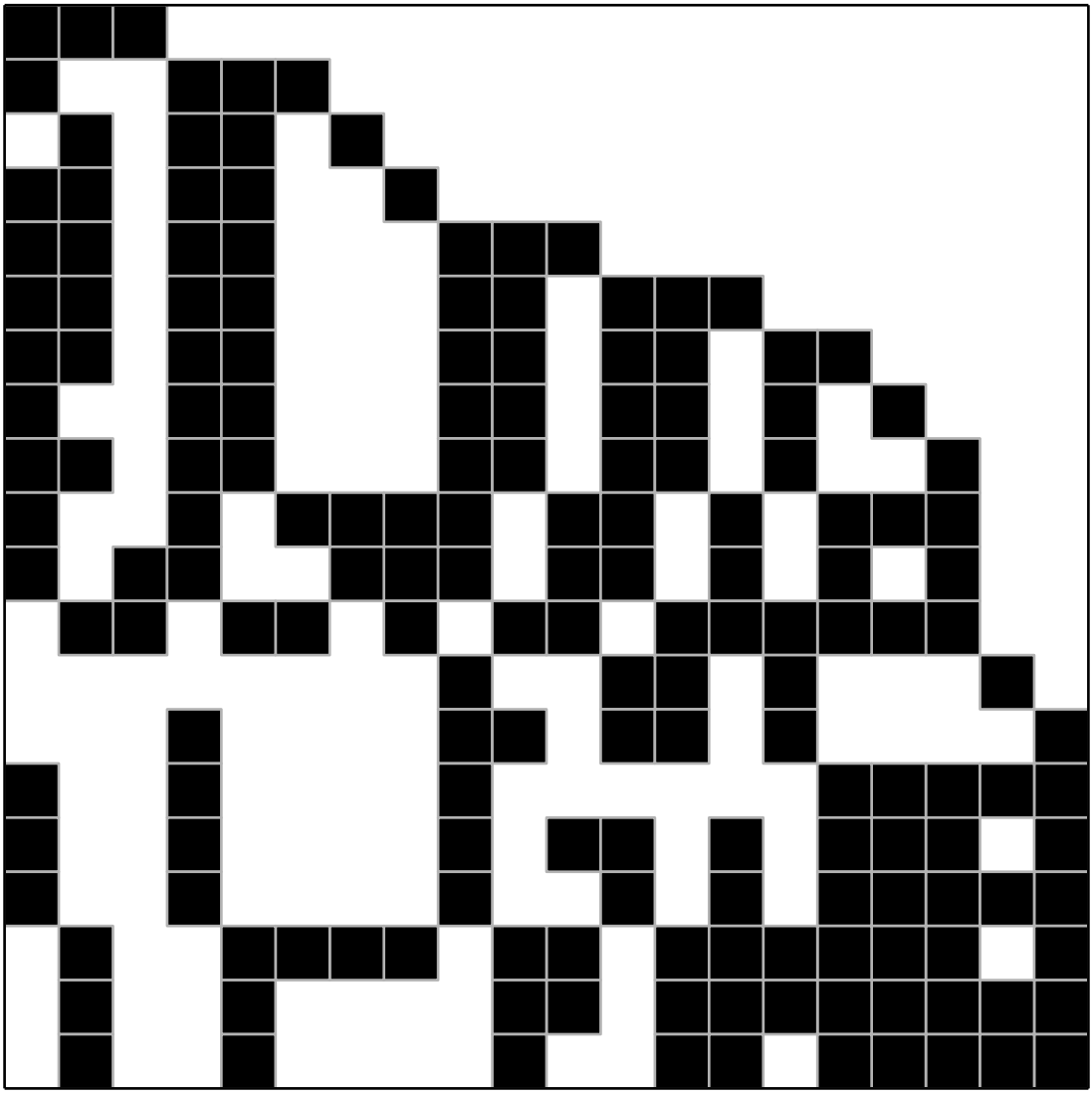
lib3_enfant2-RE 20x20 (173) con: 11, var: 9

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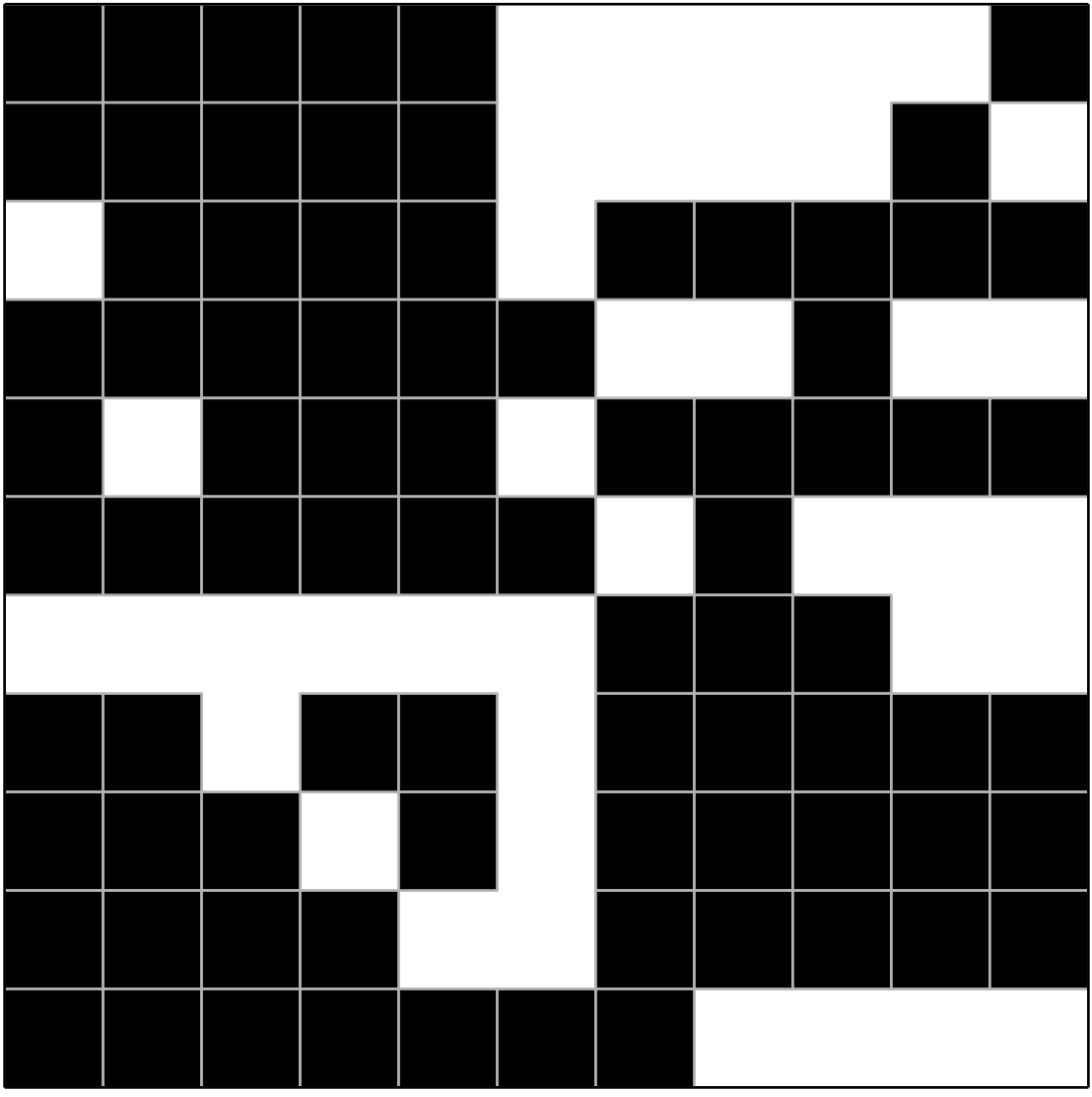
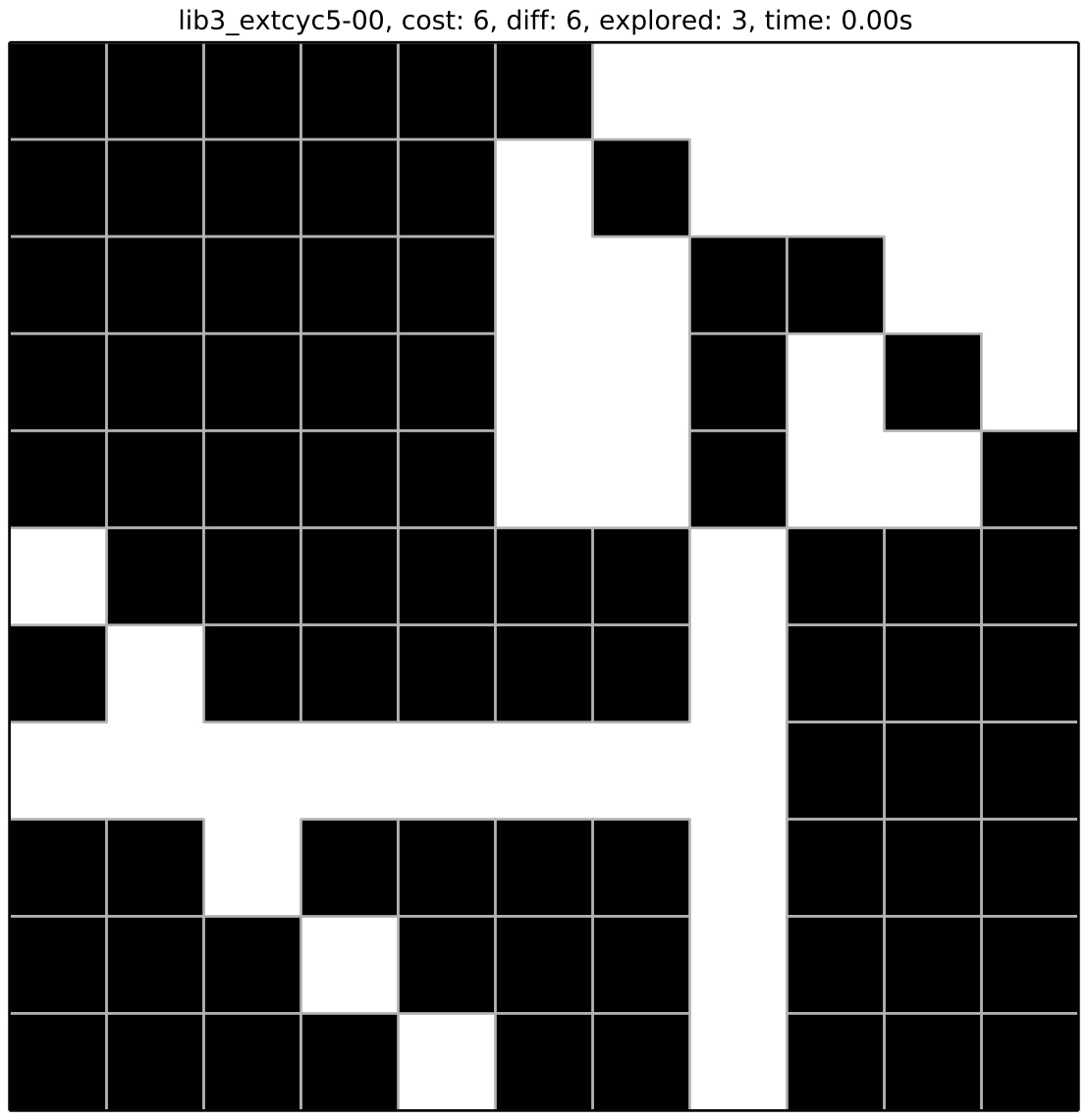
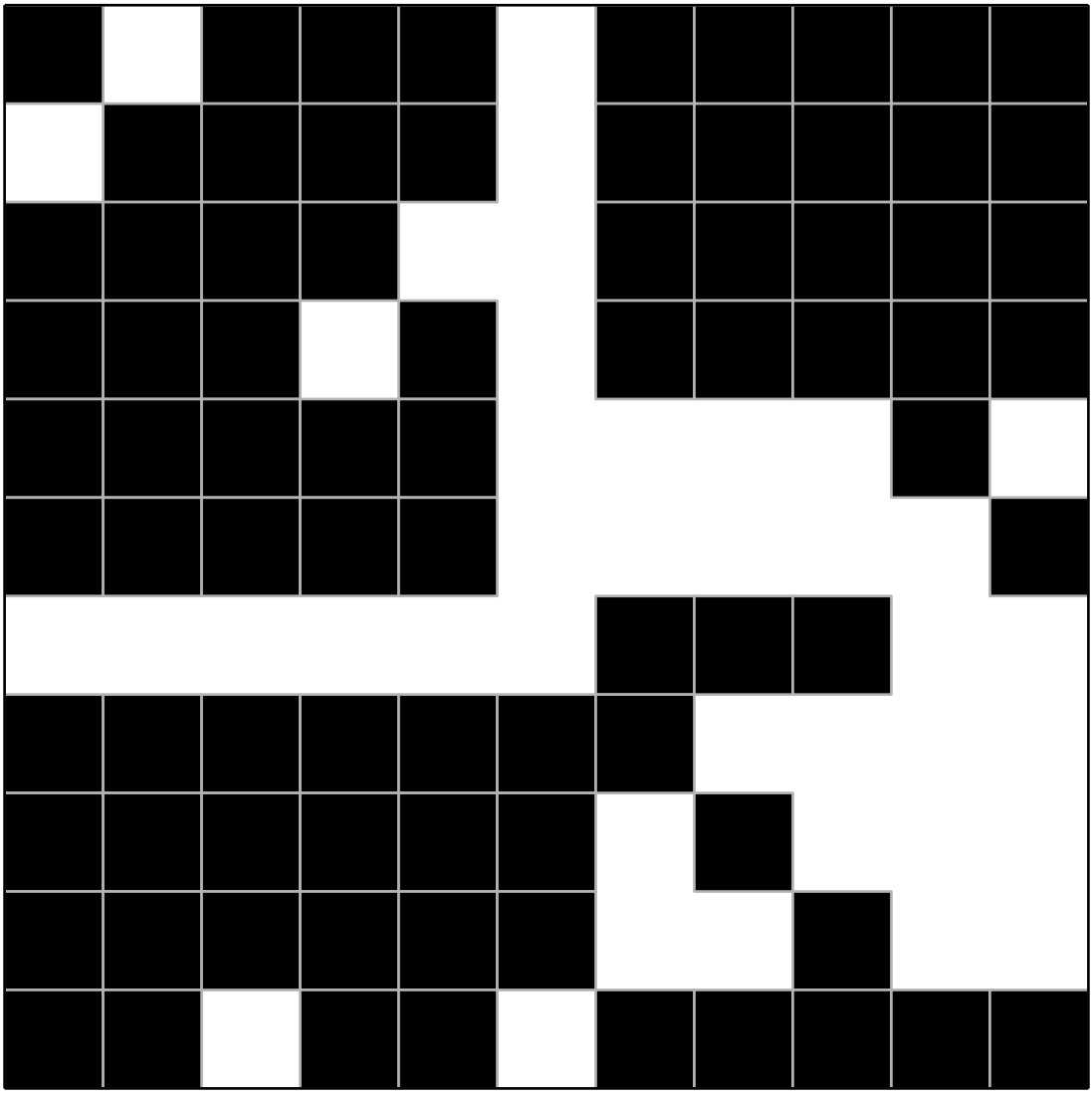
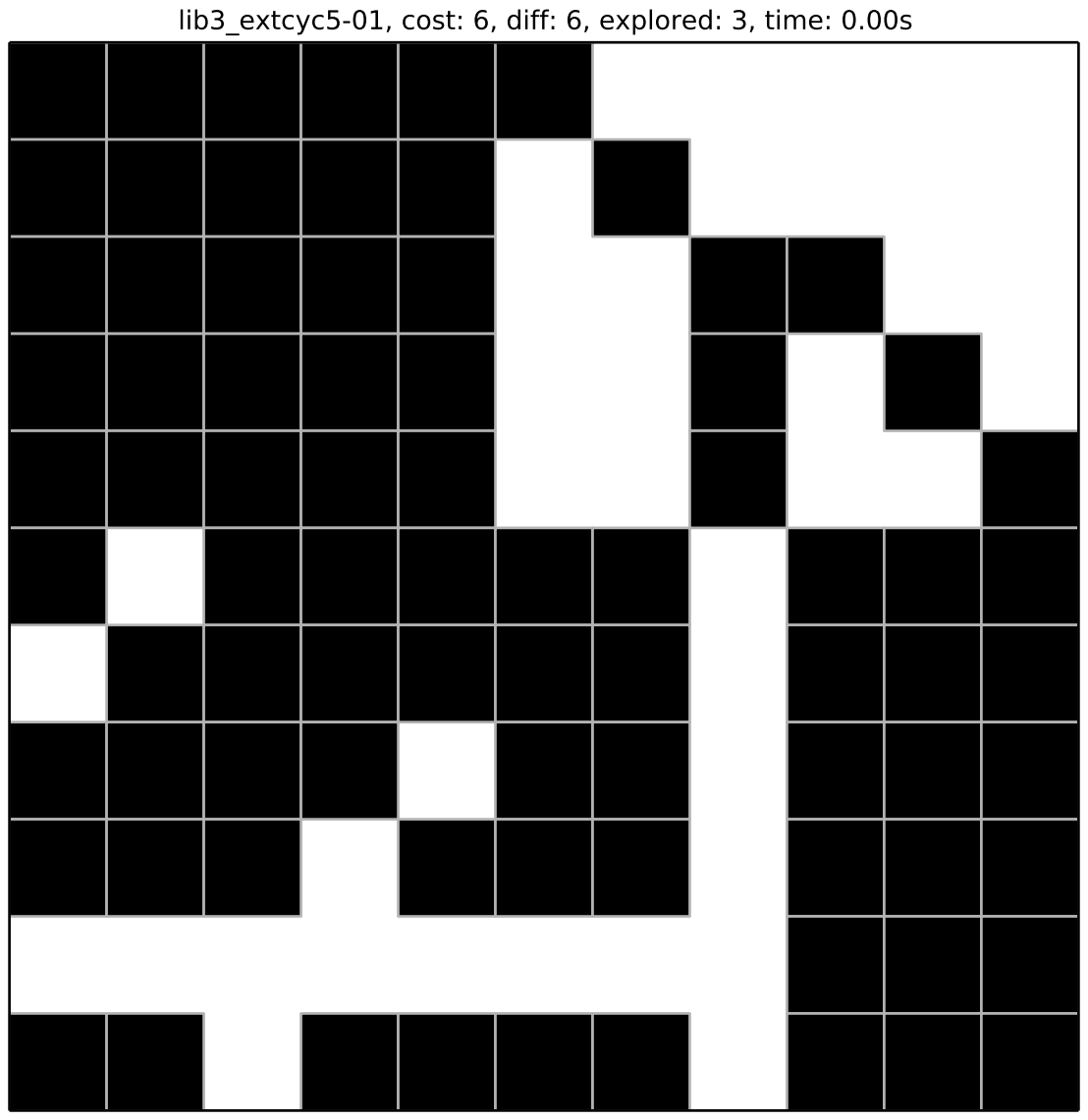
lib3_extcyc5-00 11x11 (81) con: 5, var: 6




lib3_extcyc5-00, cost: 6, diff: 6, explored: 3, time: 0.00s

lib3_extcyc5-01 11x11 (81) con: 5, var: 6

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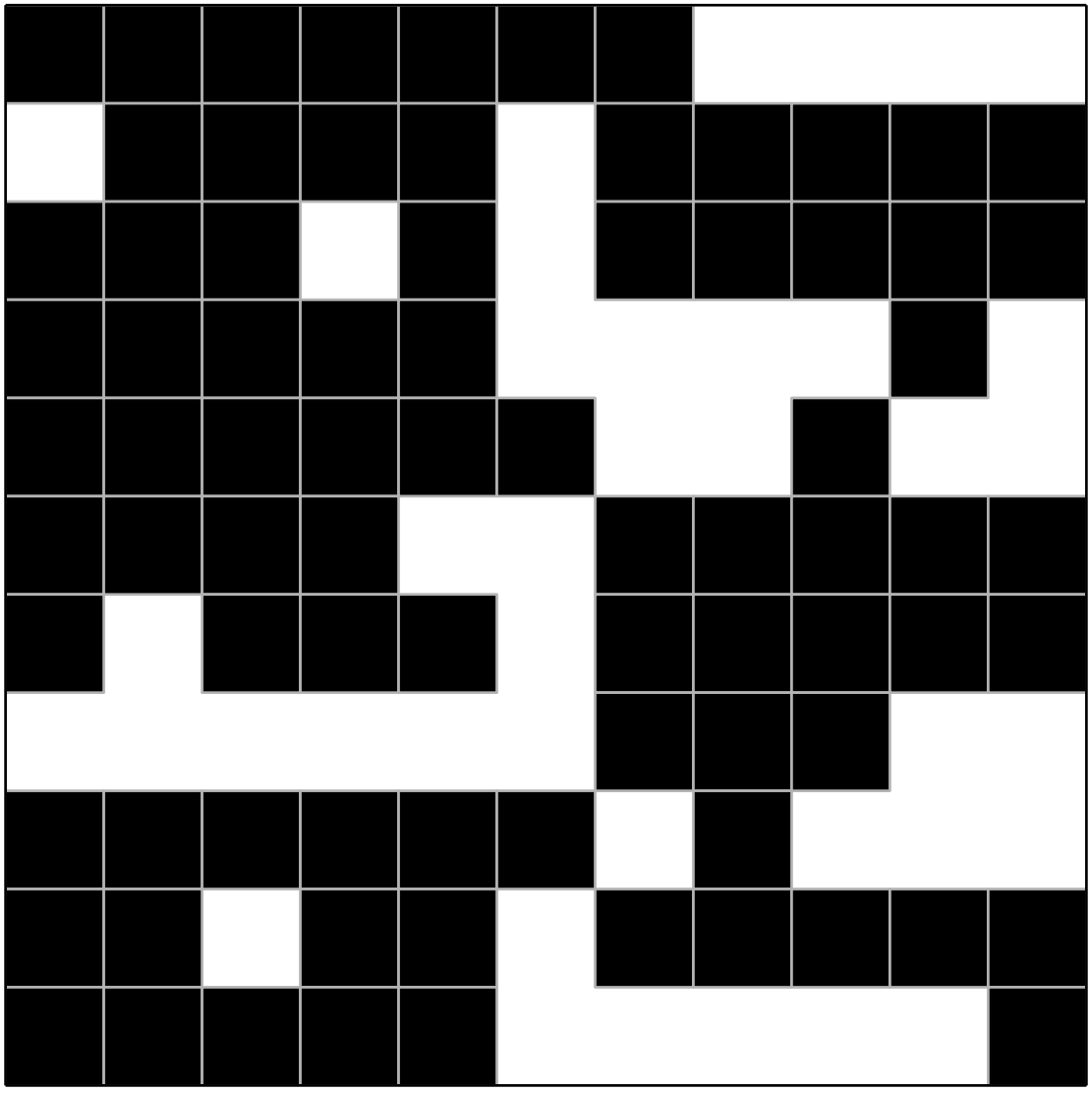
lib3_extcyc5-02 11x11 (81) con: 5, var: 6



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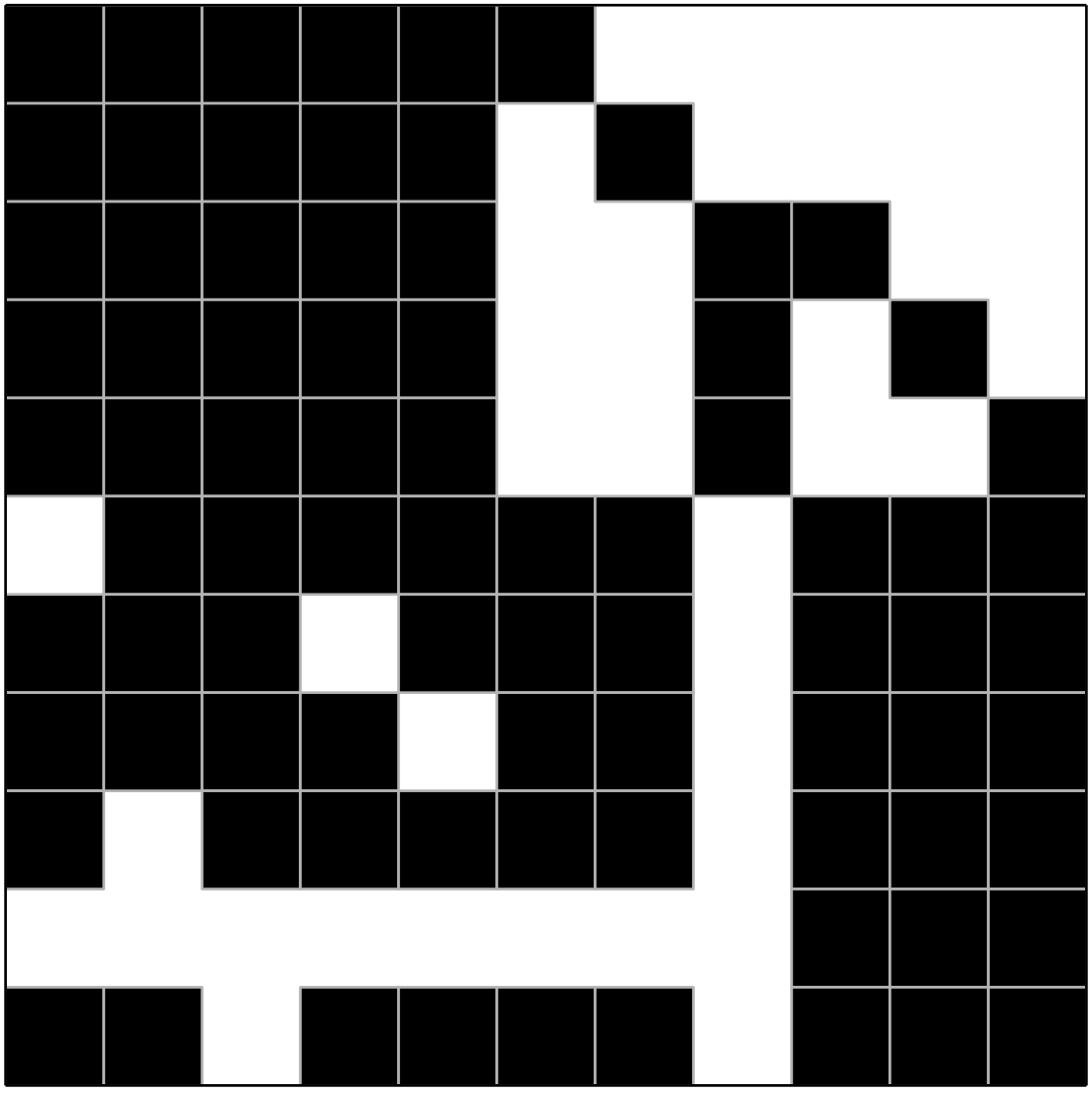
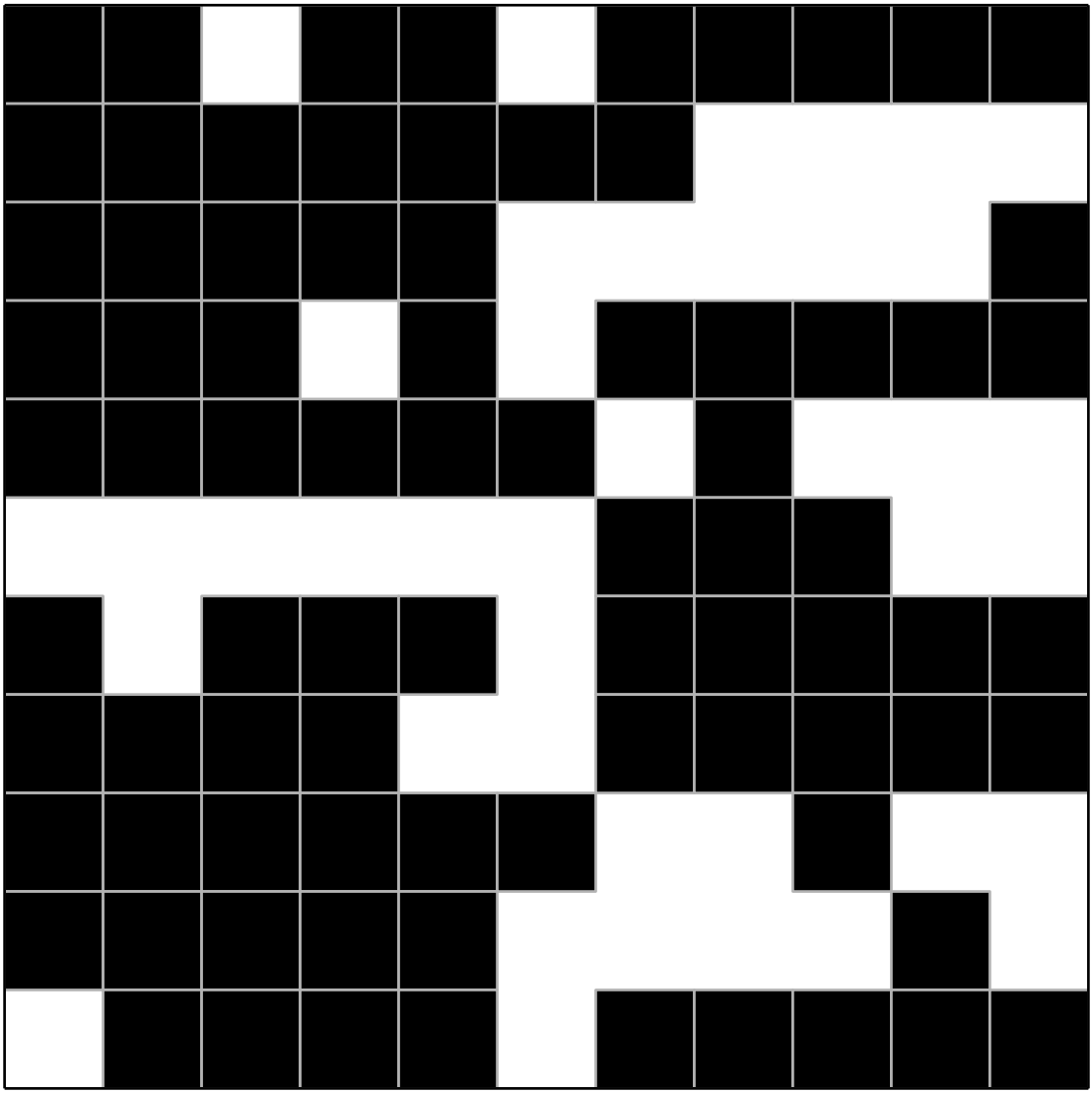
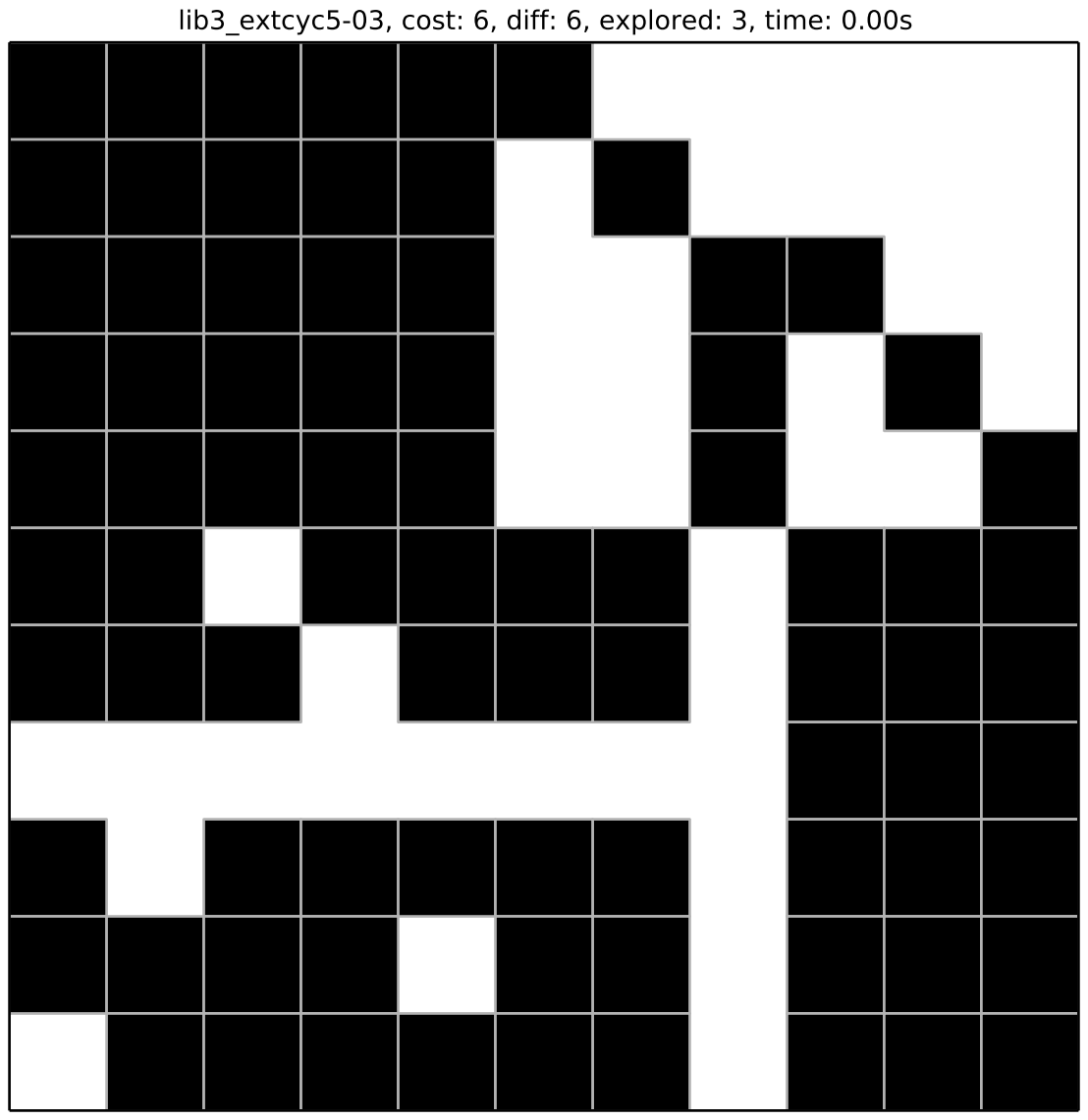


lib3_extcyc5-03 11x11 (81) con: 5, var: 6

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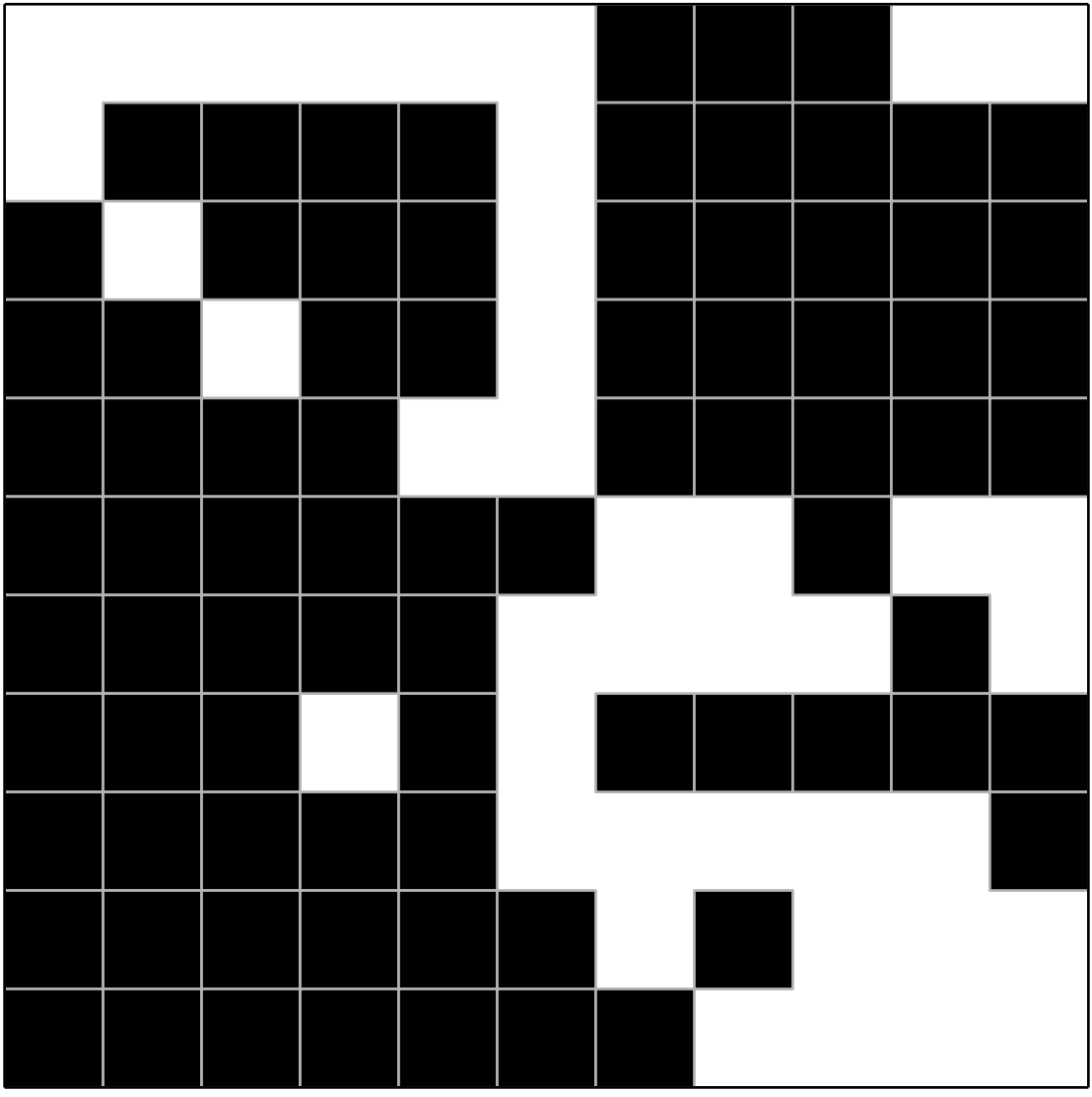
lib3_extcyc5-04 11x11 (81) con: 5, var: 6



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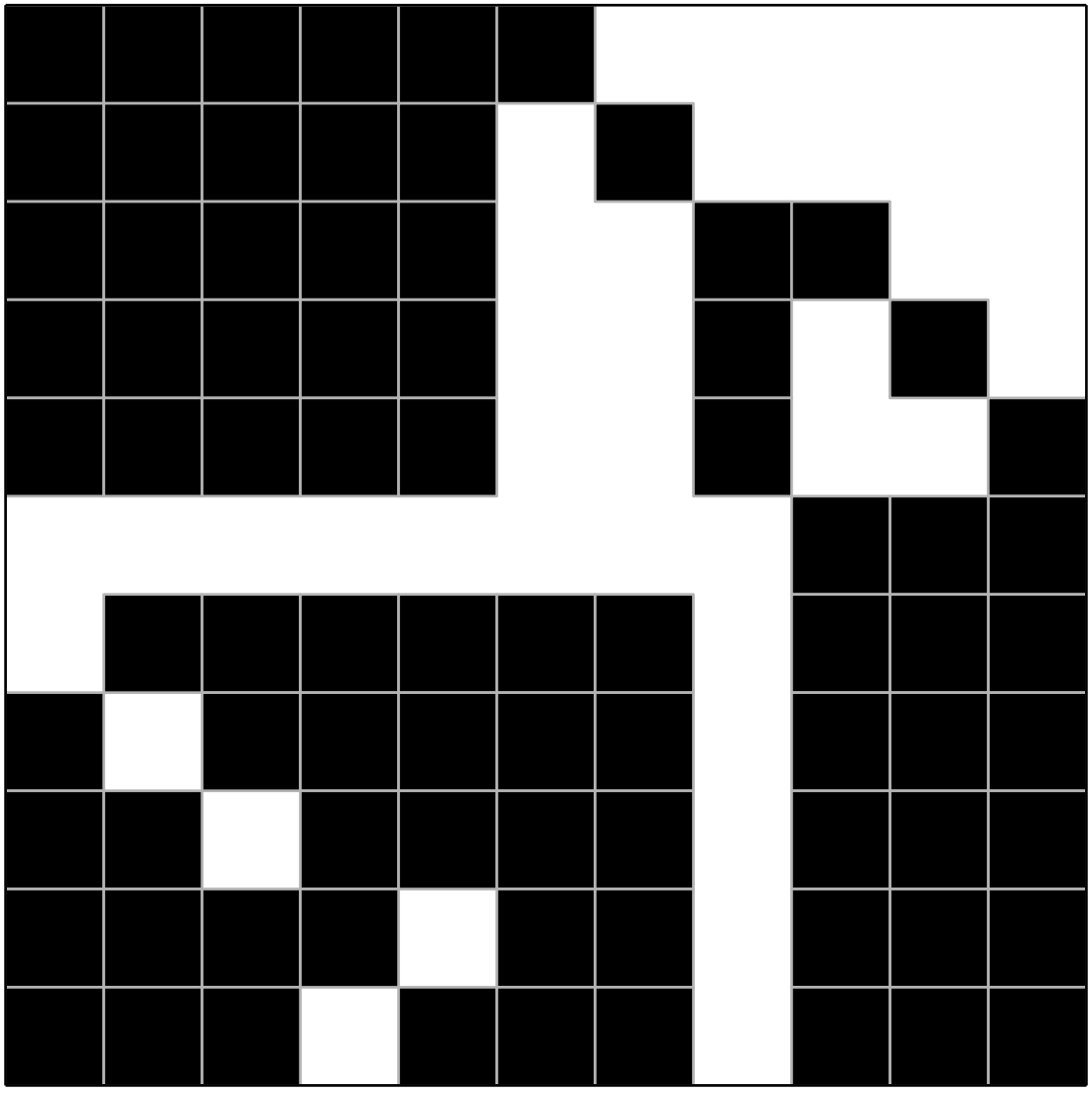
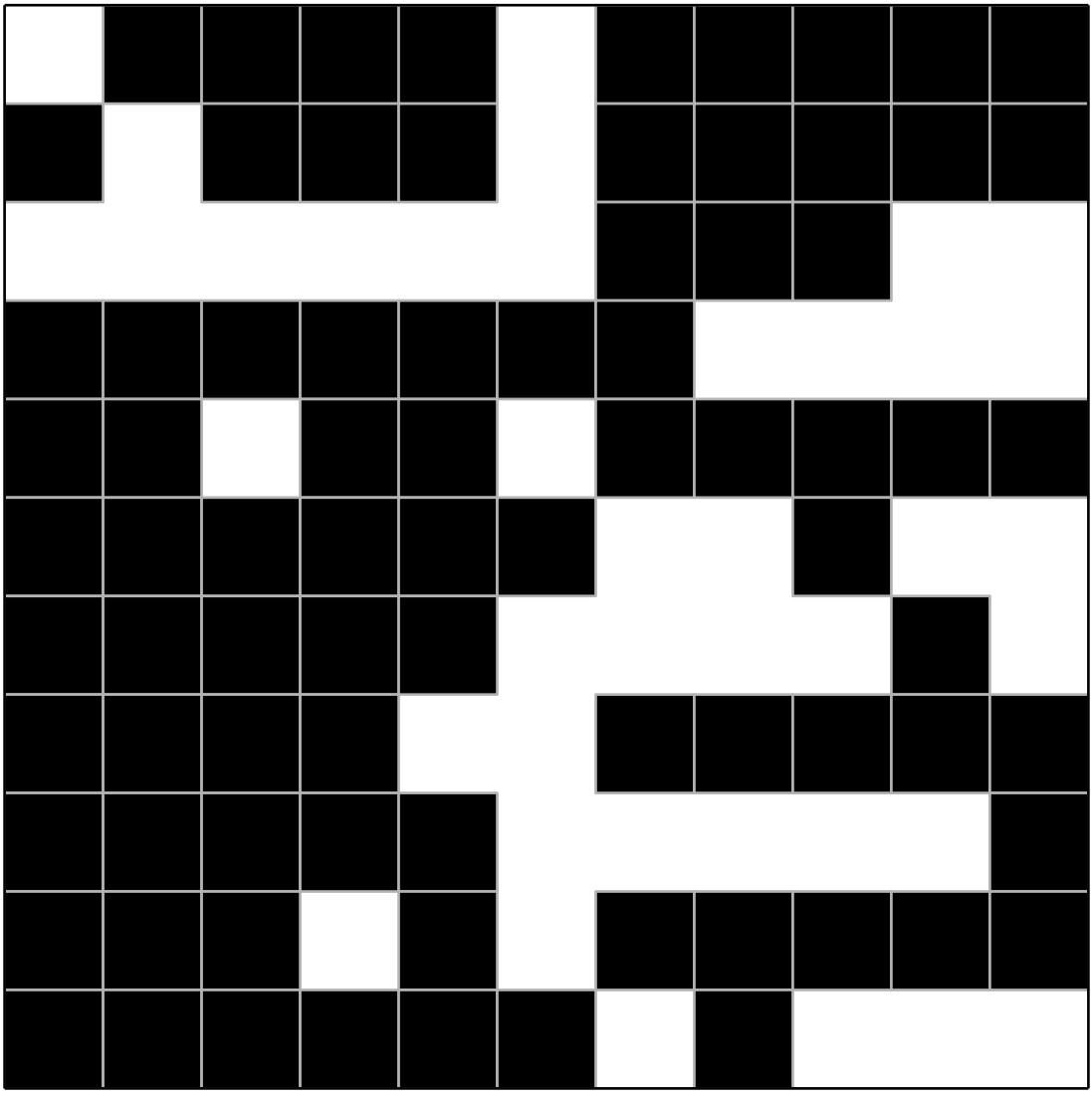
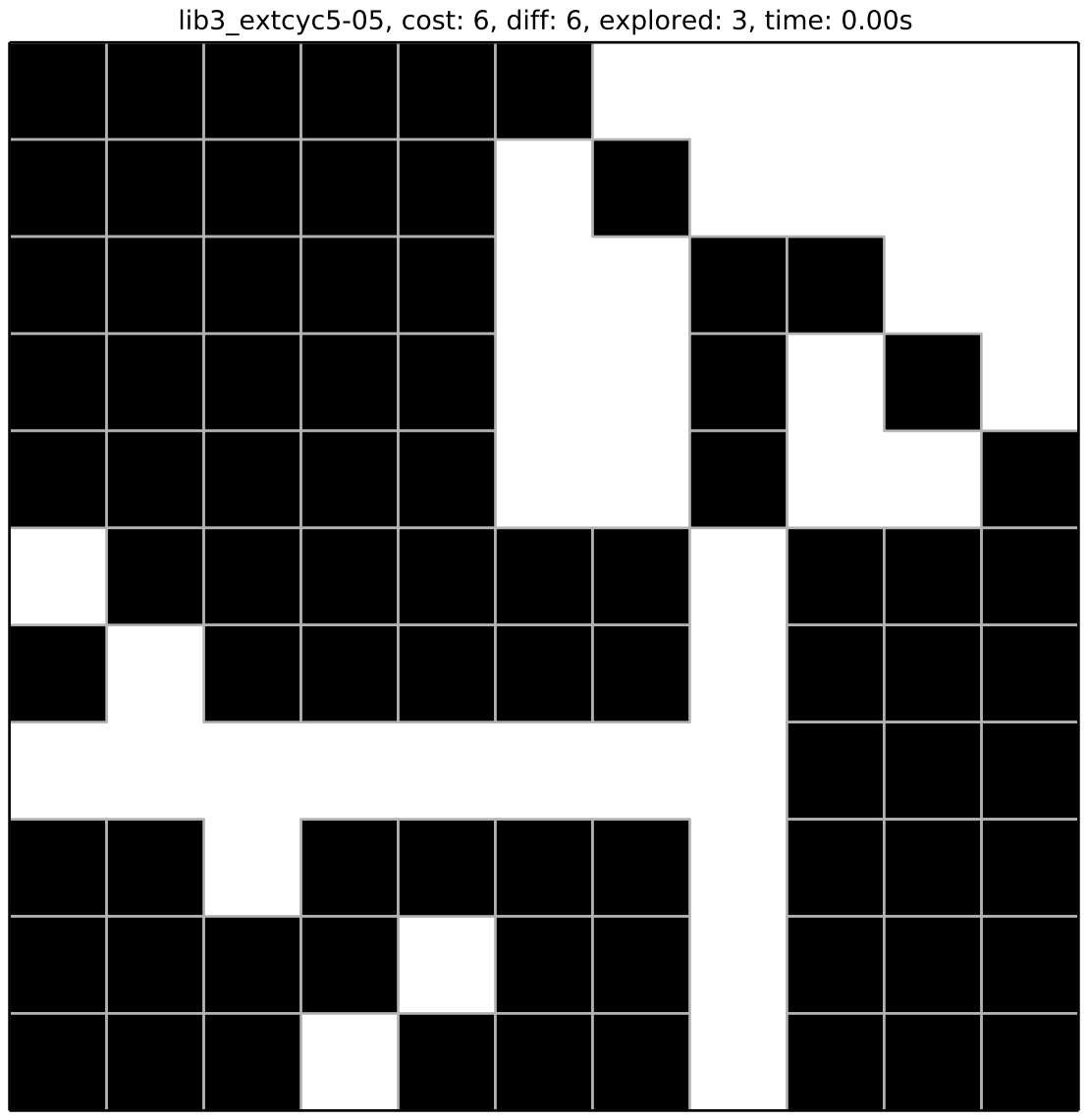


lib3_extcyc5-05 11x11 (81) con: 5, var: 6

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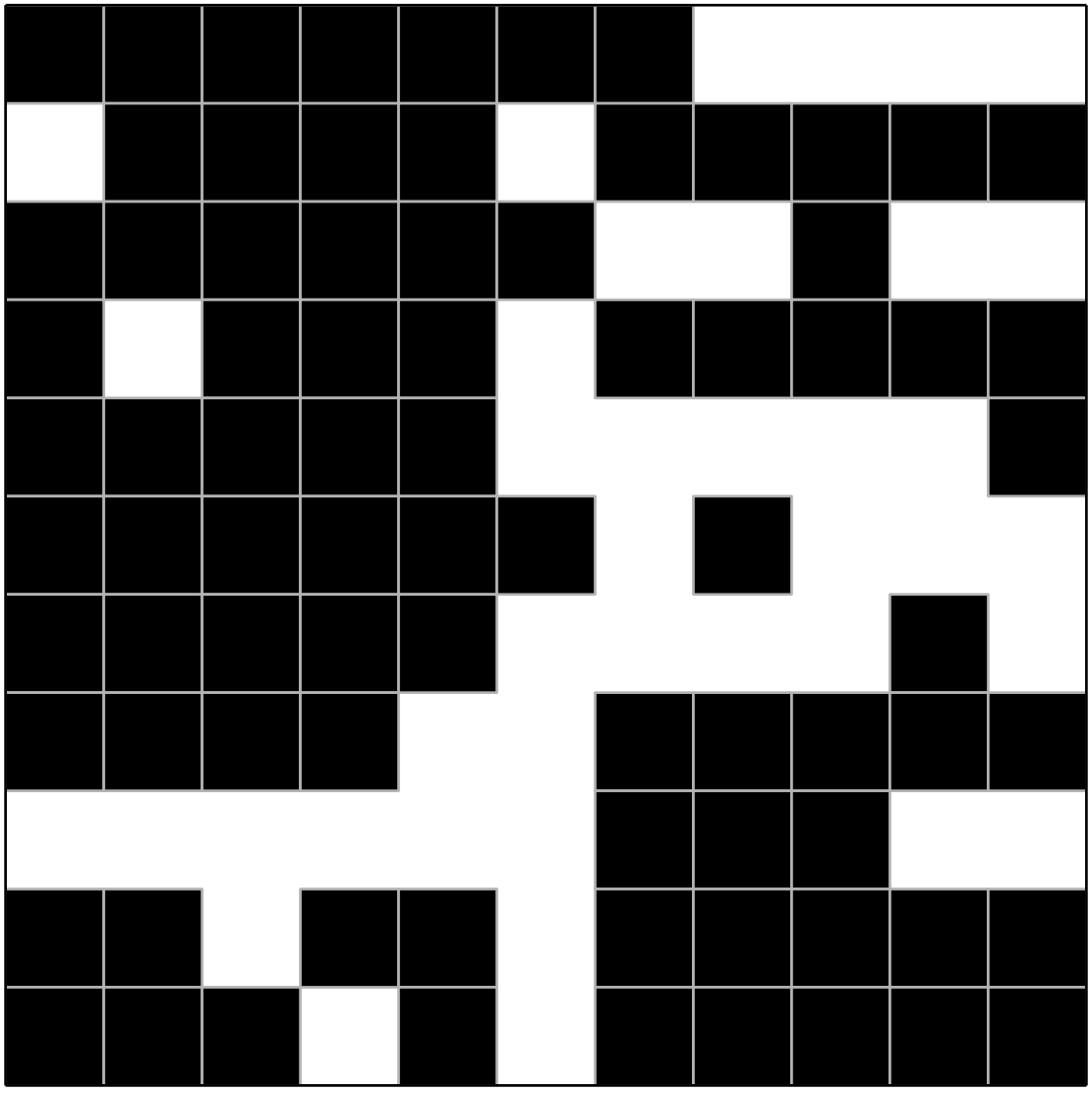

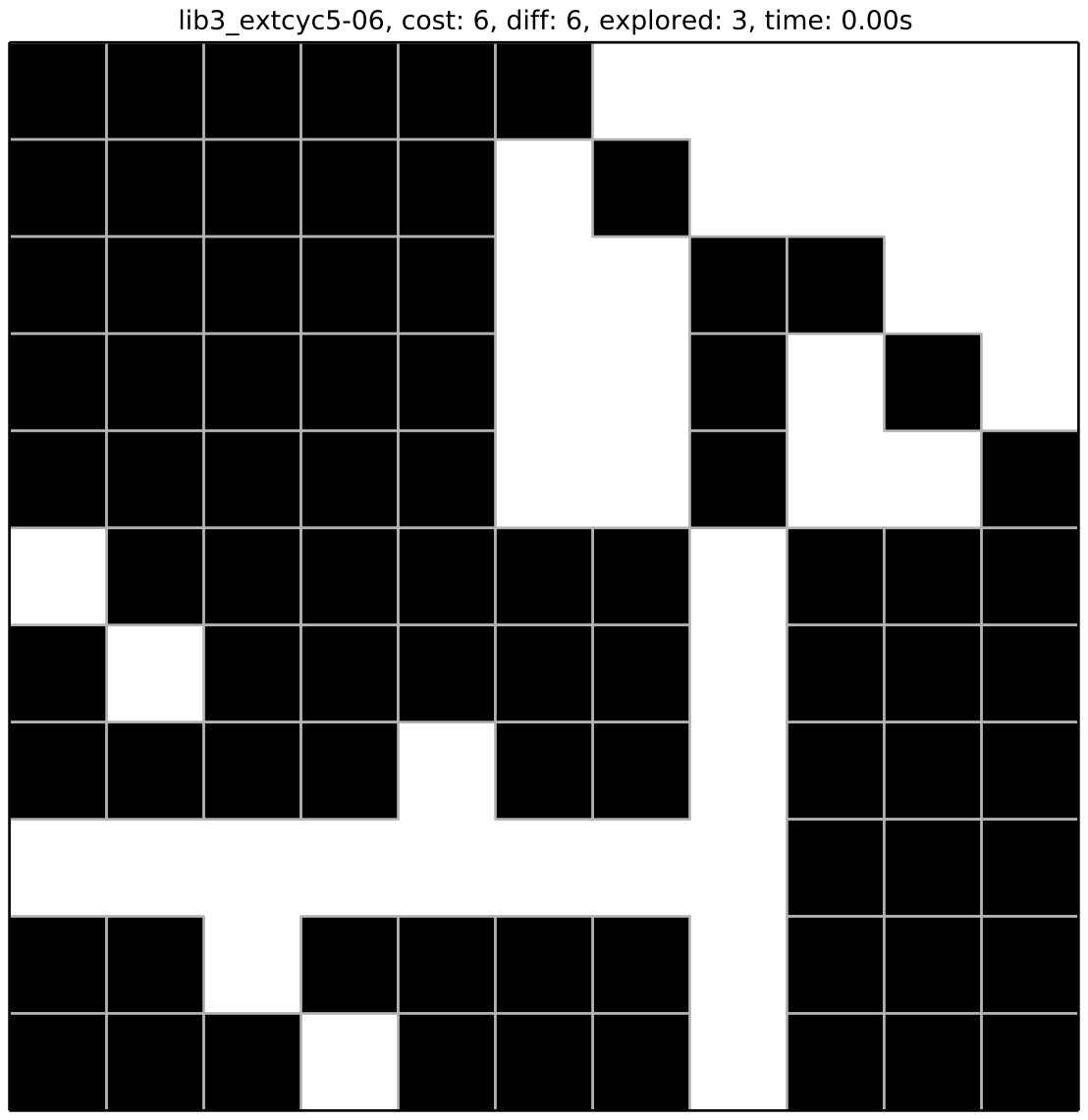
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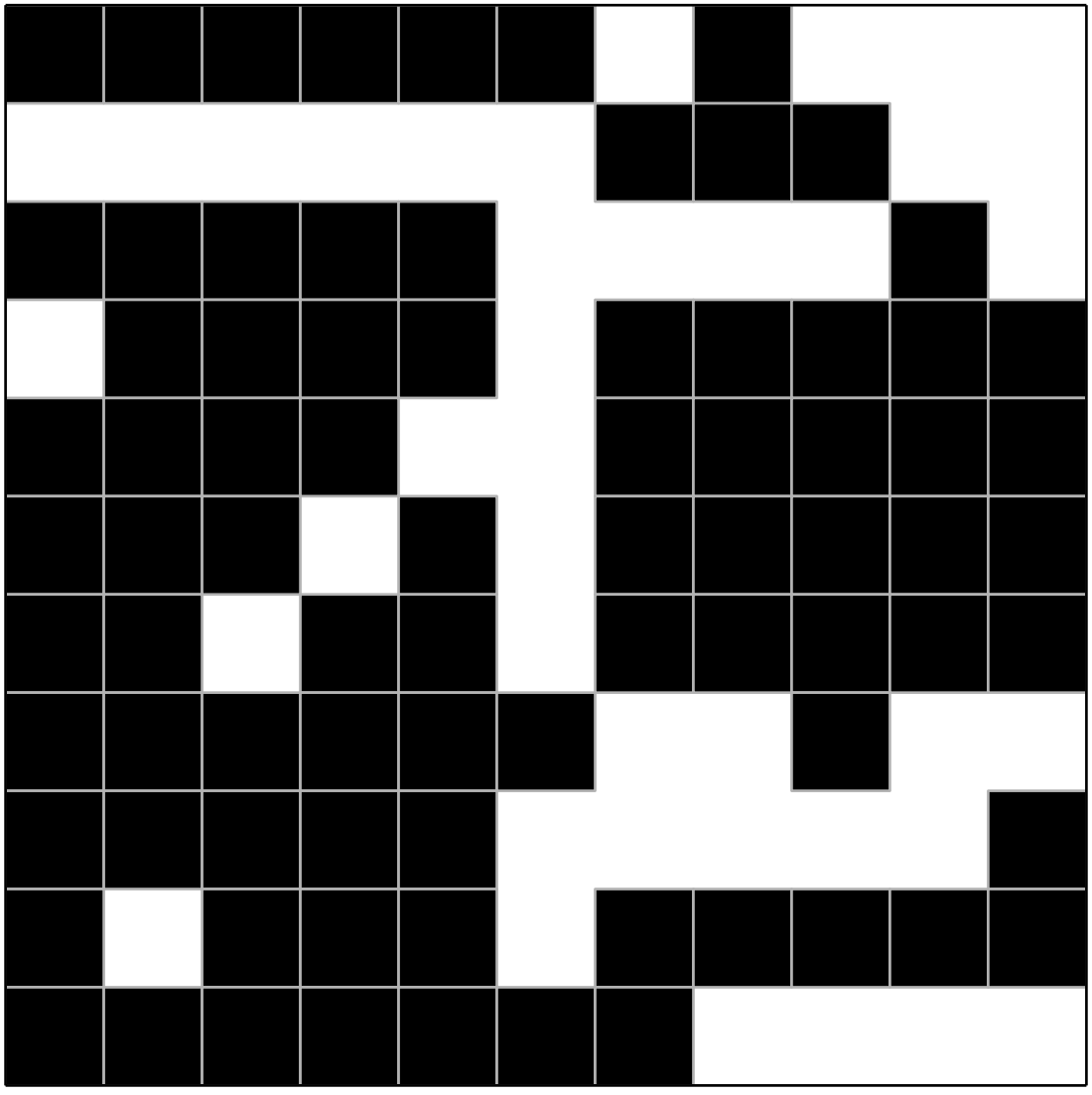
lib3_extcyc5-07 11x11 (81) con: 5, var: 6



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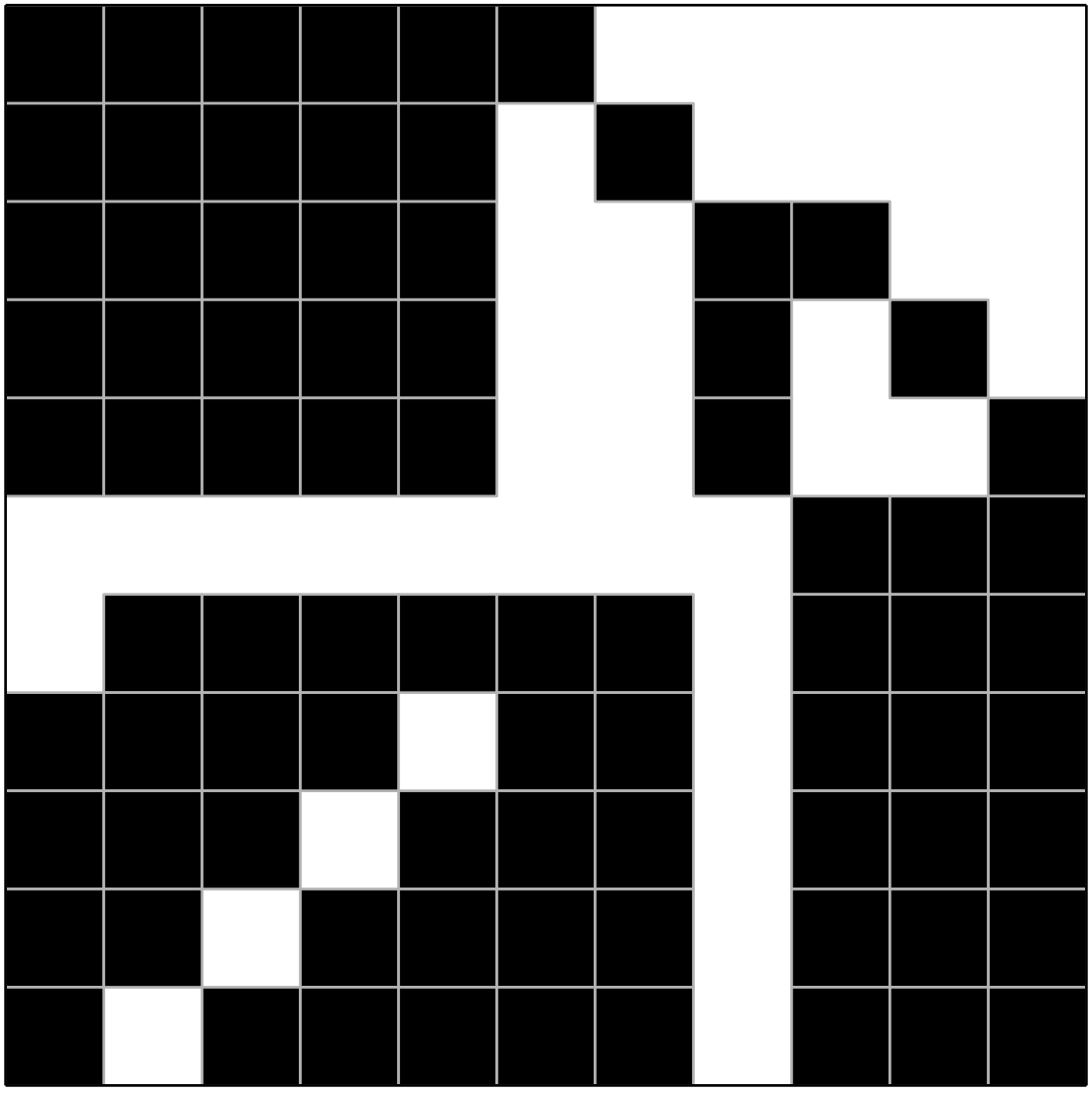
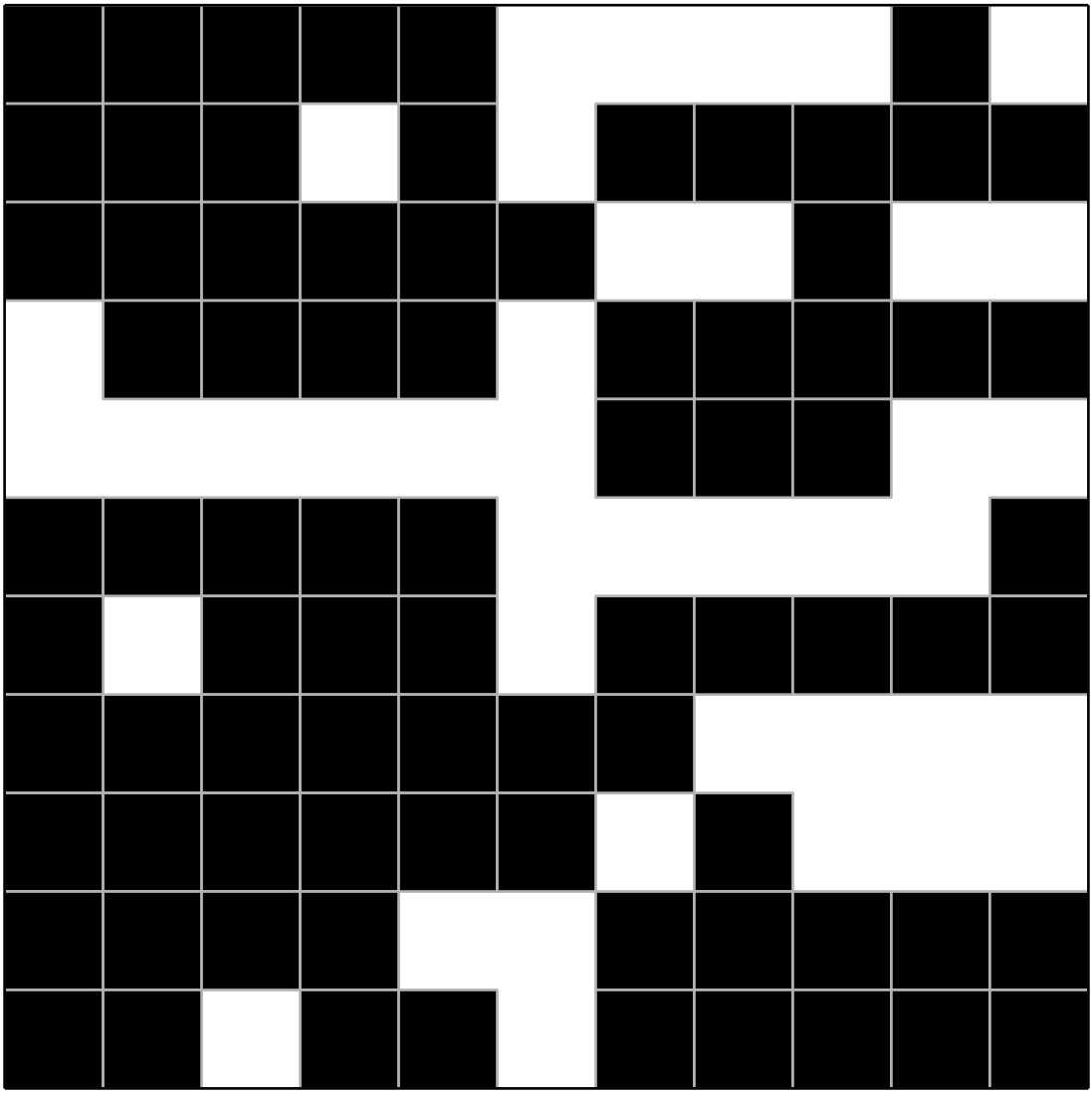


lib3_extcyc5-08 11x11 (81) con: 5, var: 6



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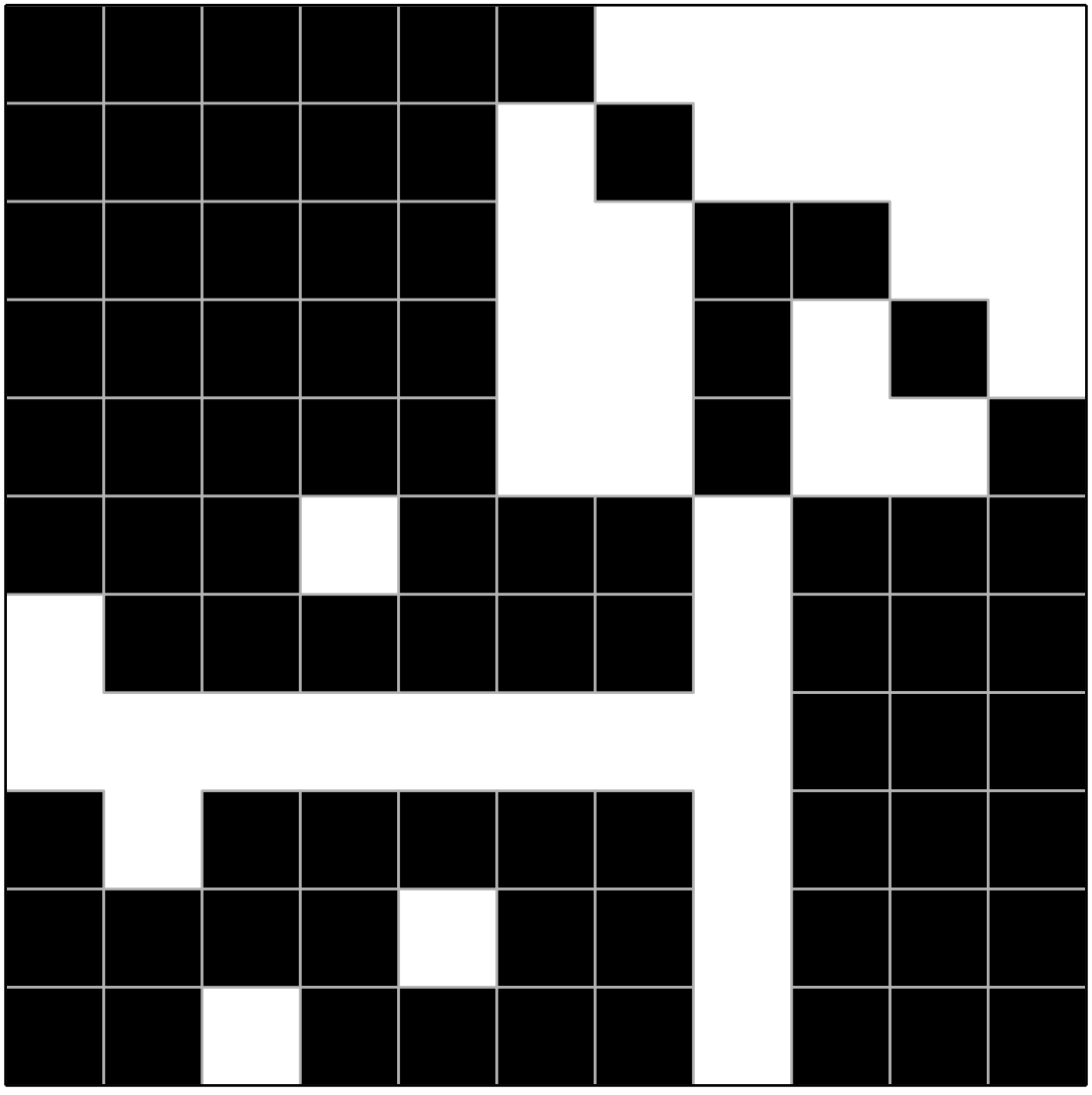

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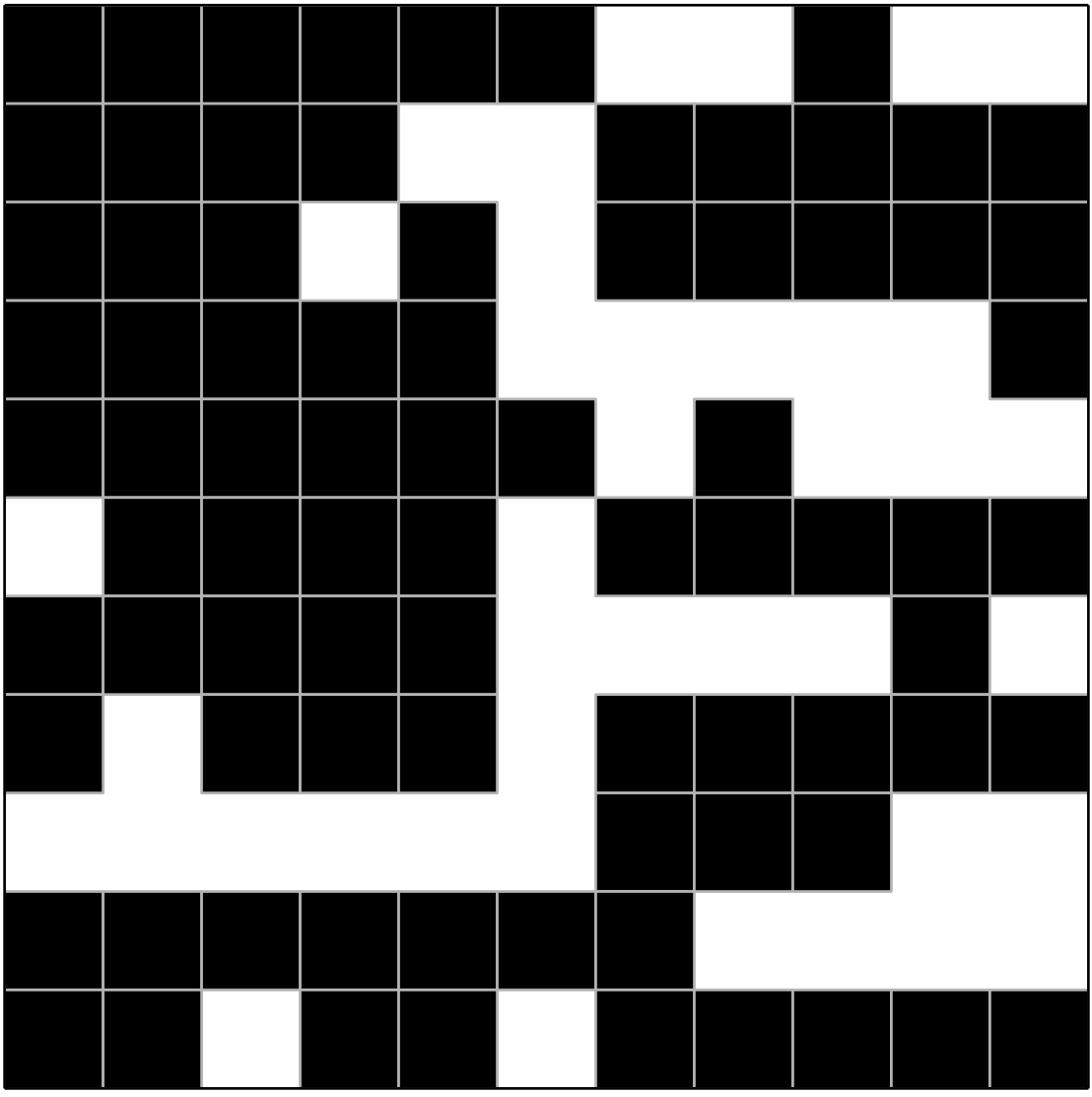

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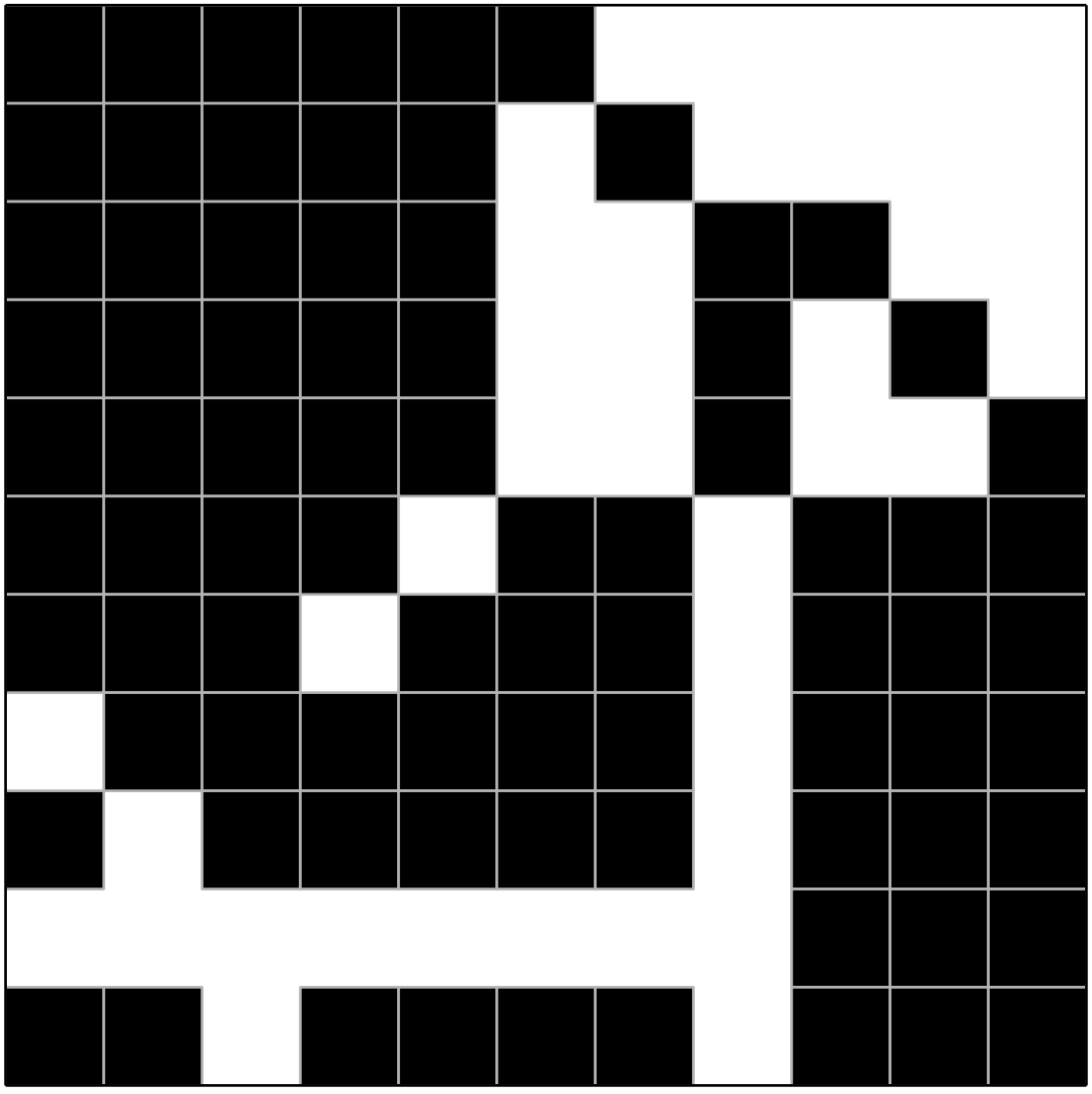
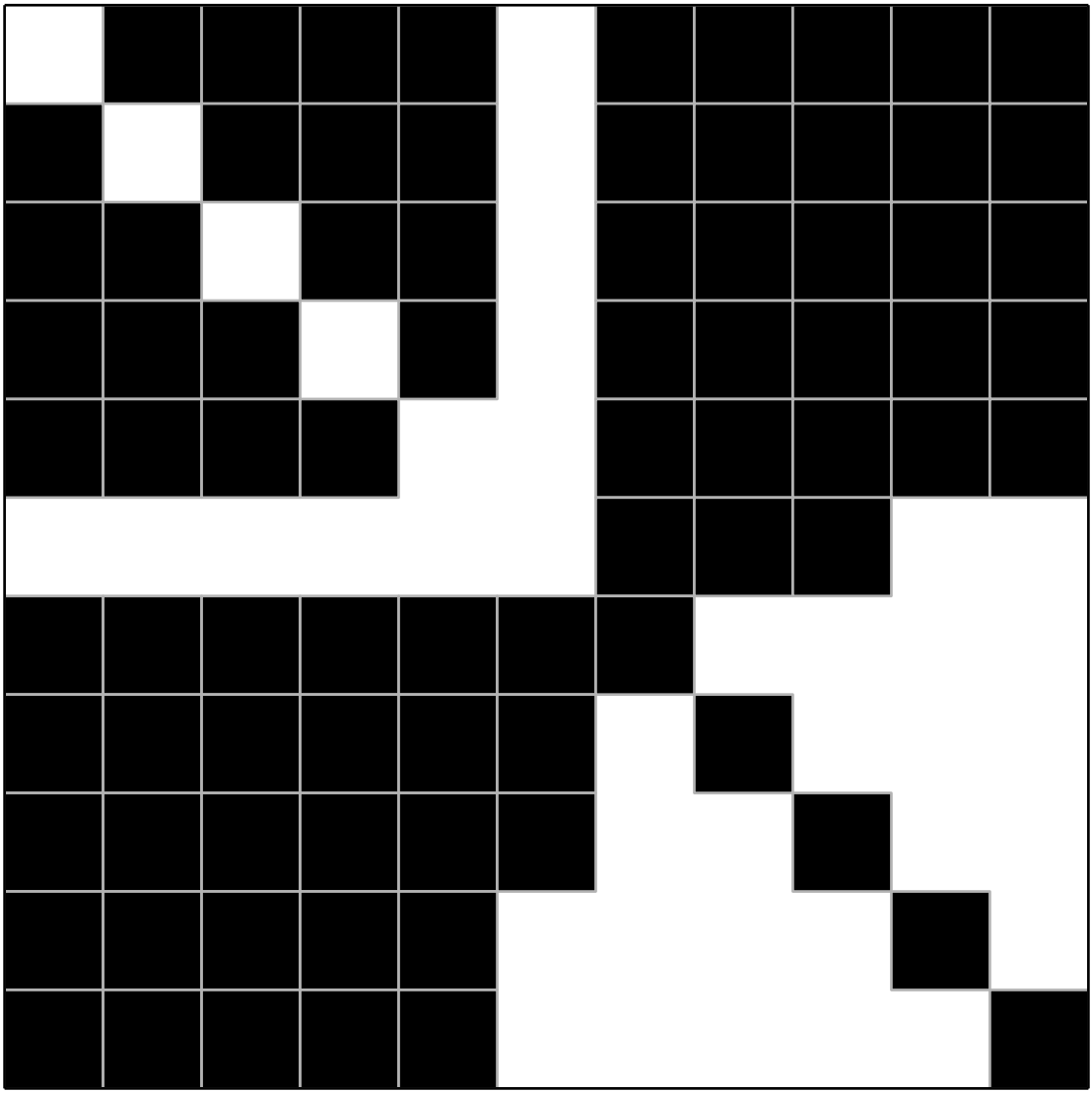


lib3_extcyc5-IN 11x11 (81) con: 5, var: 6



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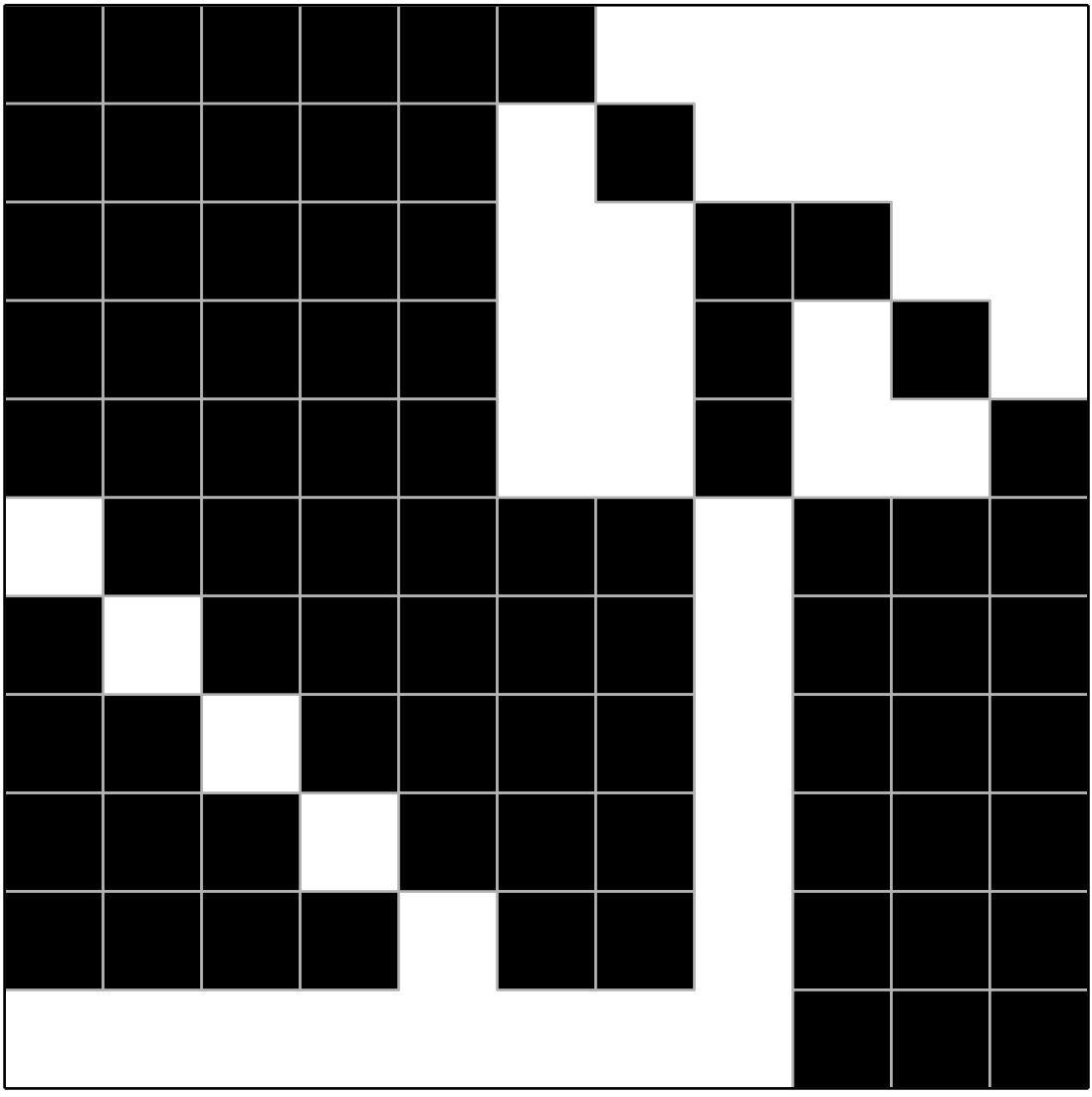
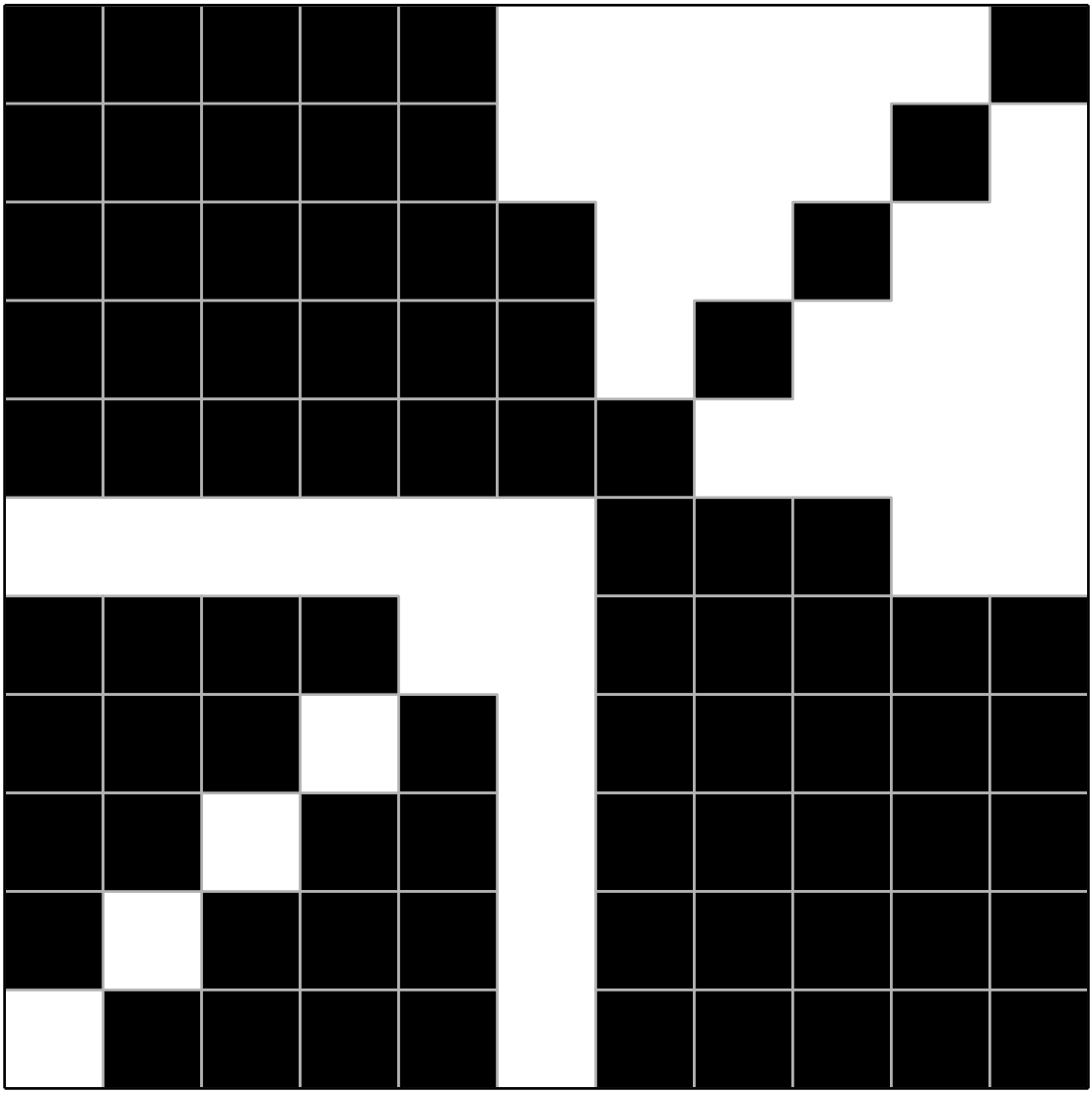


lib3_extcyc5-RE 11x11 (81) con: 5, var: 6



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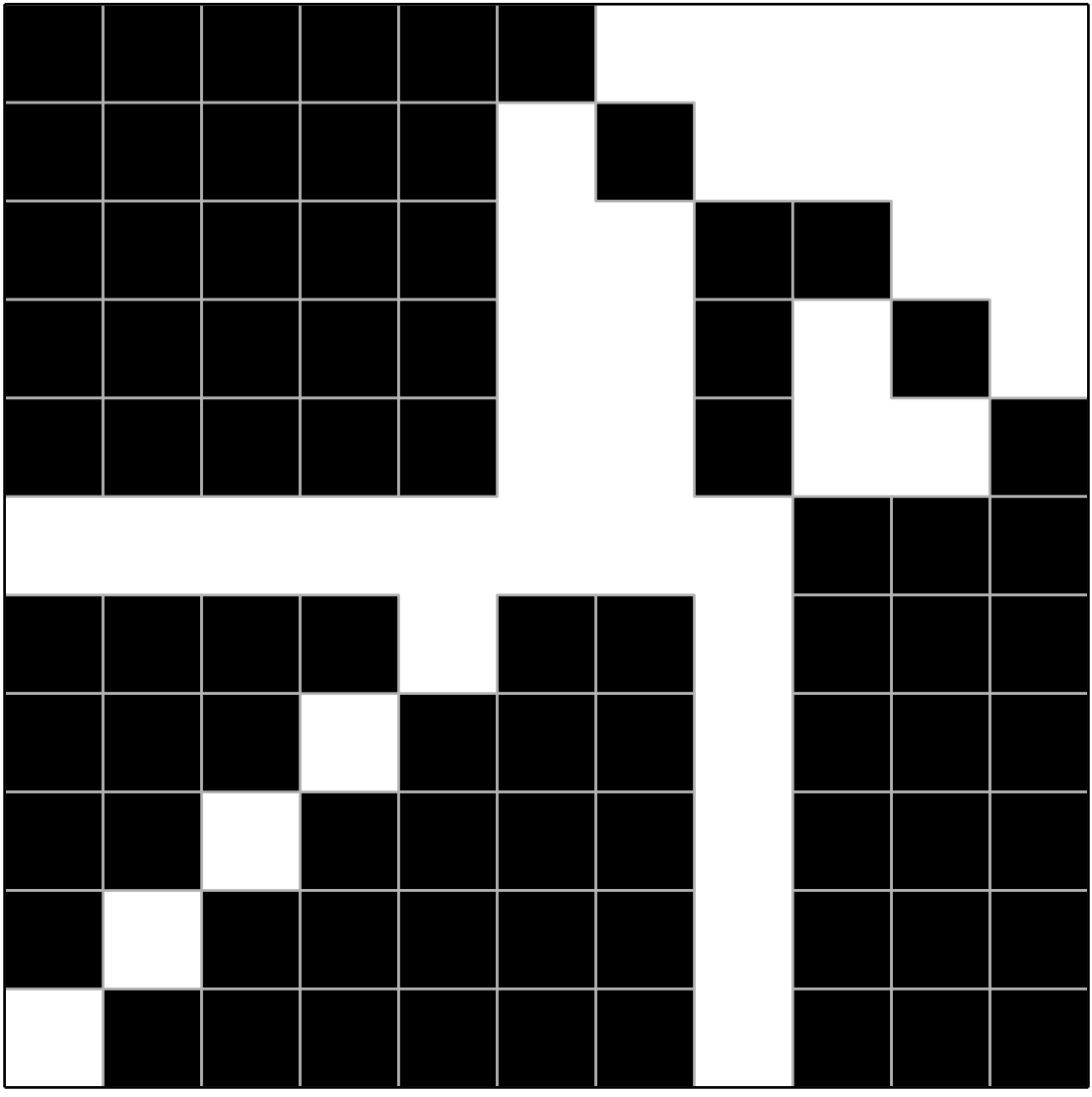
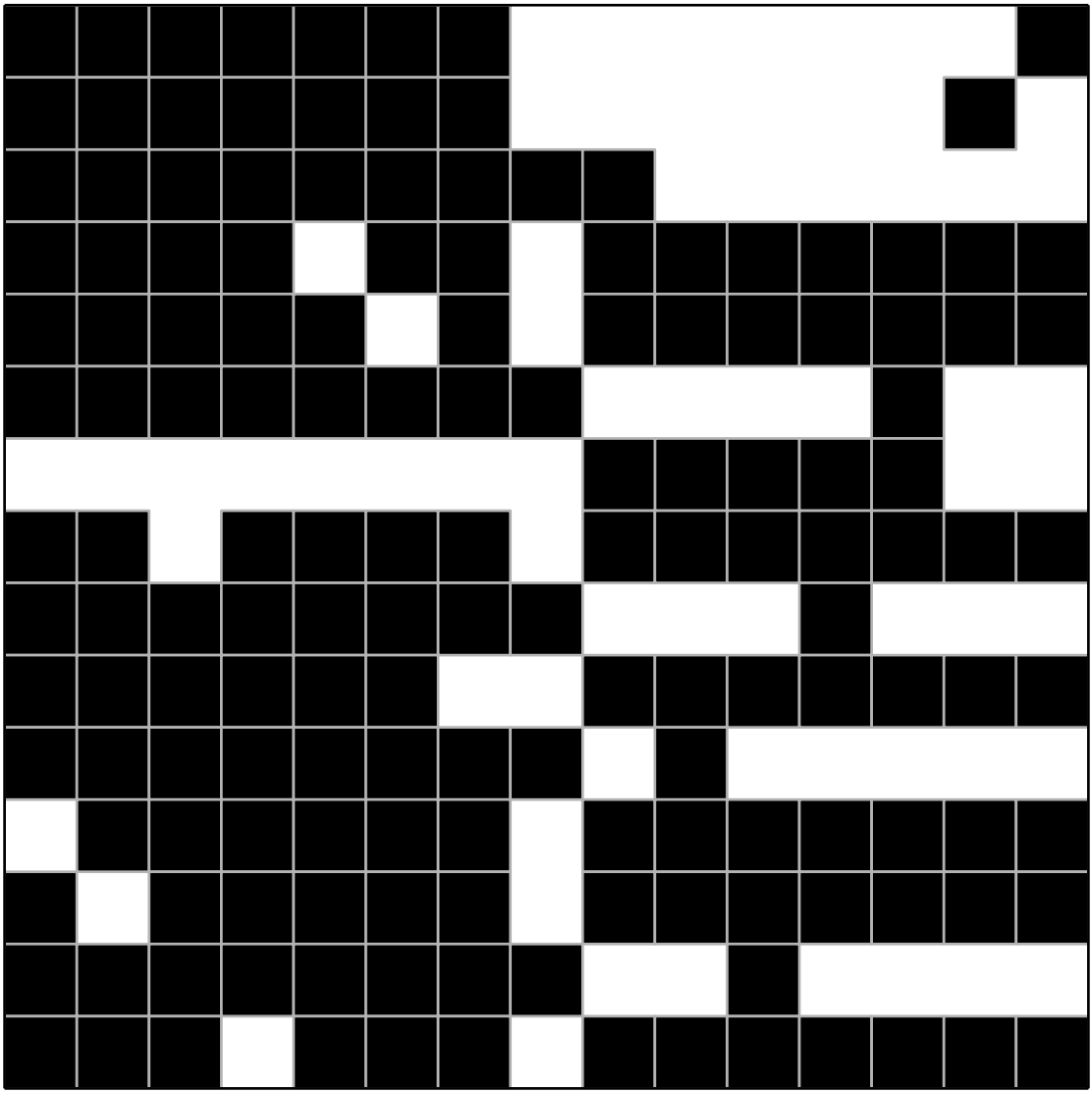


lib3_extcyc7-00 15x15 (157) con: 7, var: 8



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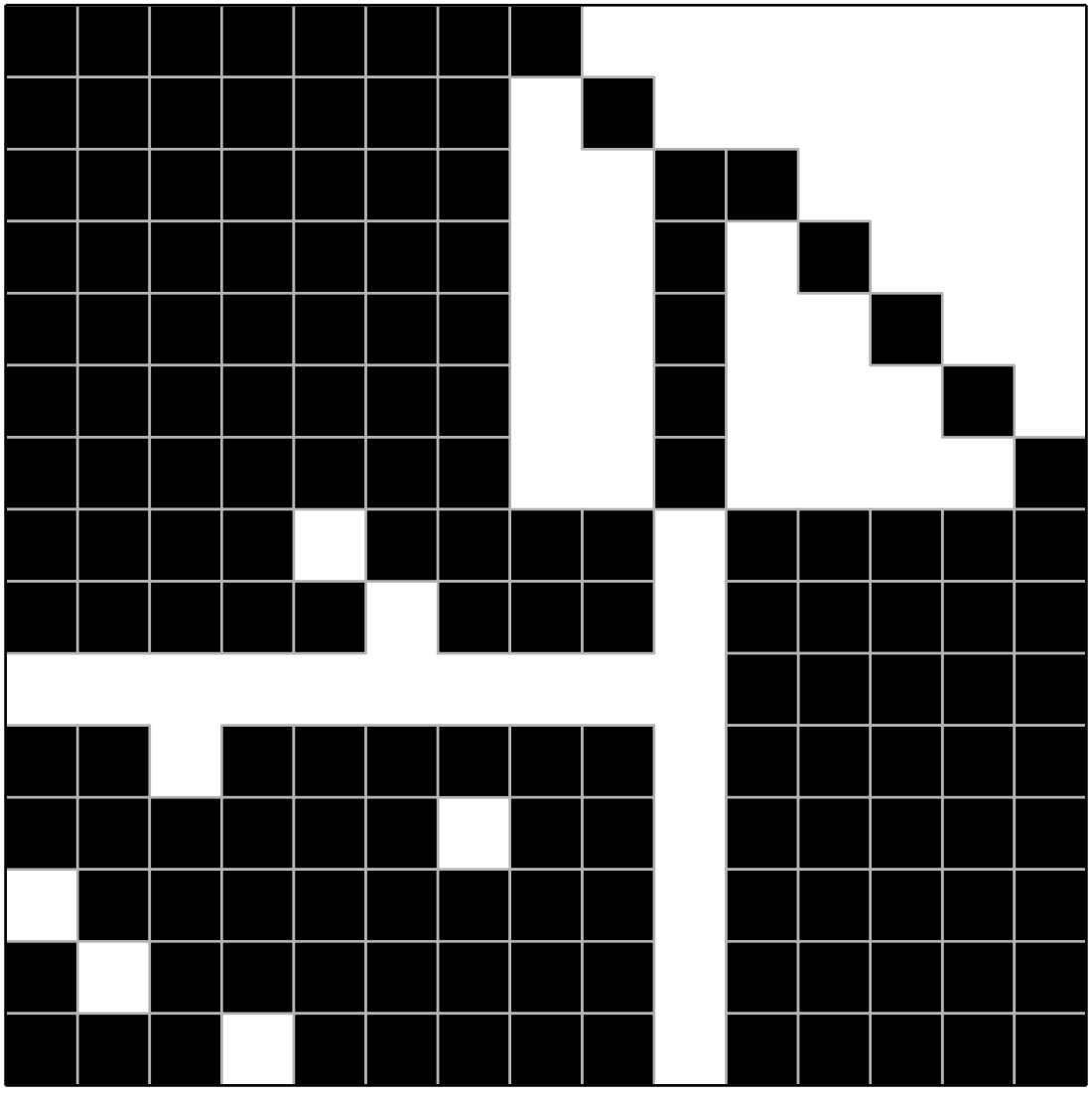
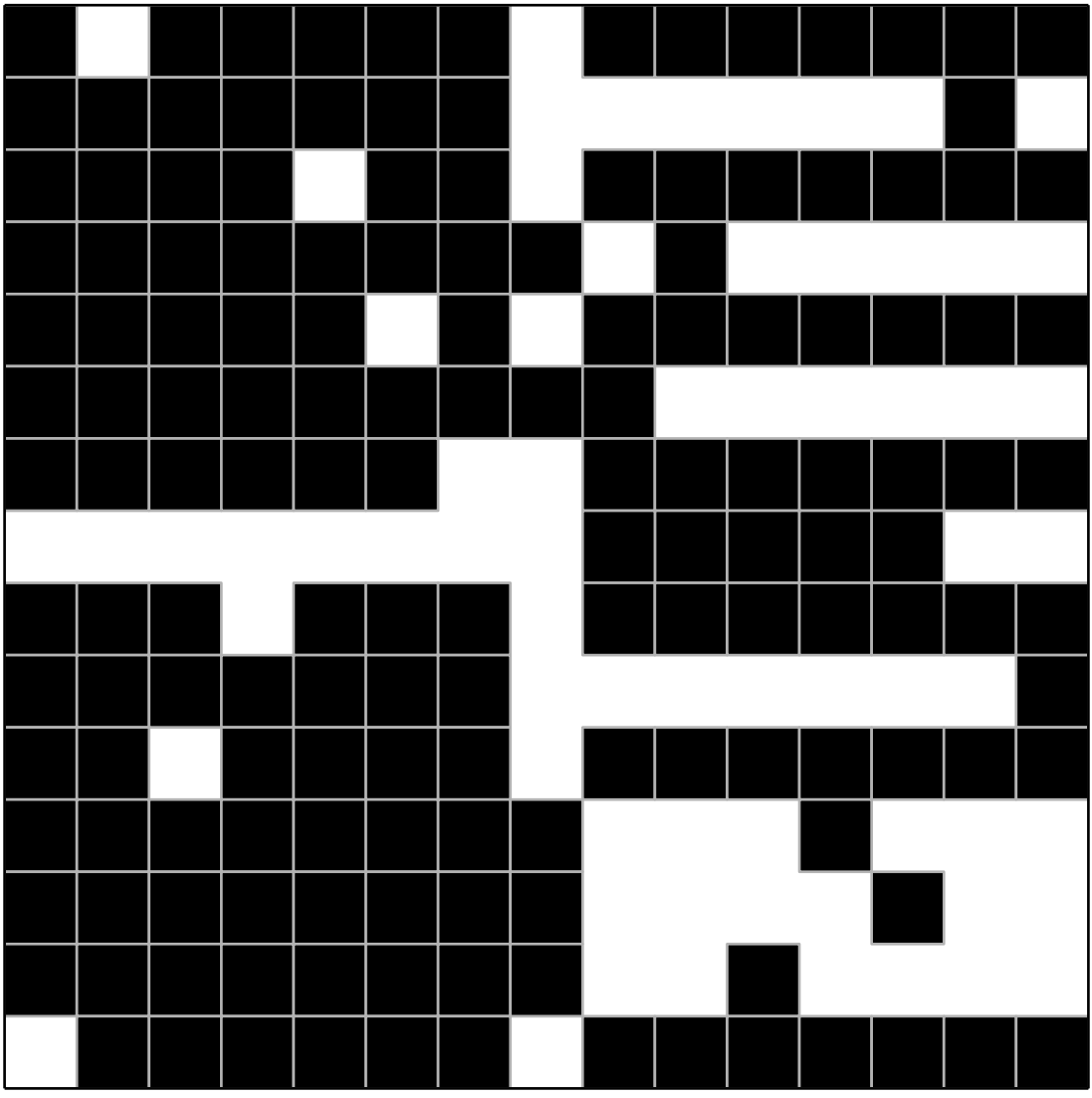


lib3_extcyc7-01 15x15 (157) con: 7, var: 8



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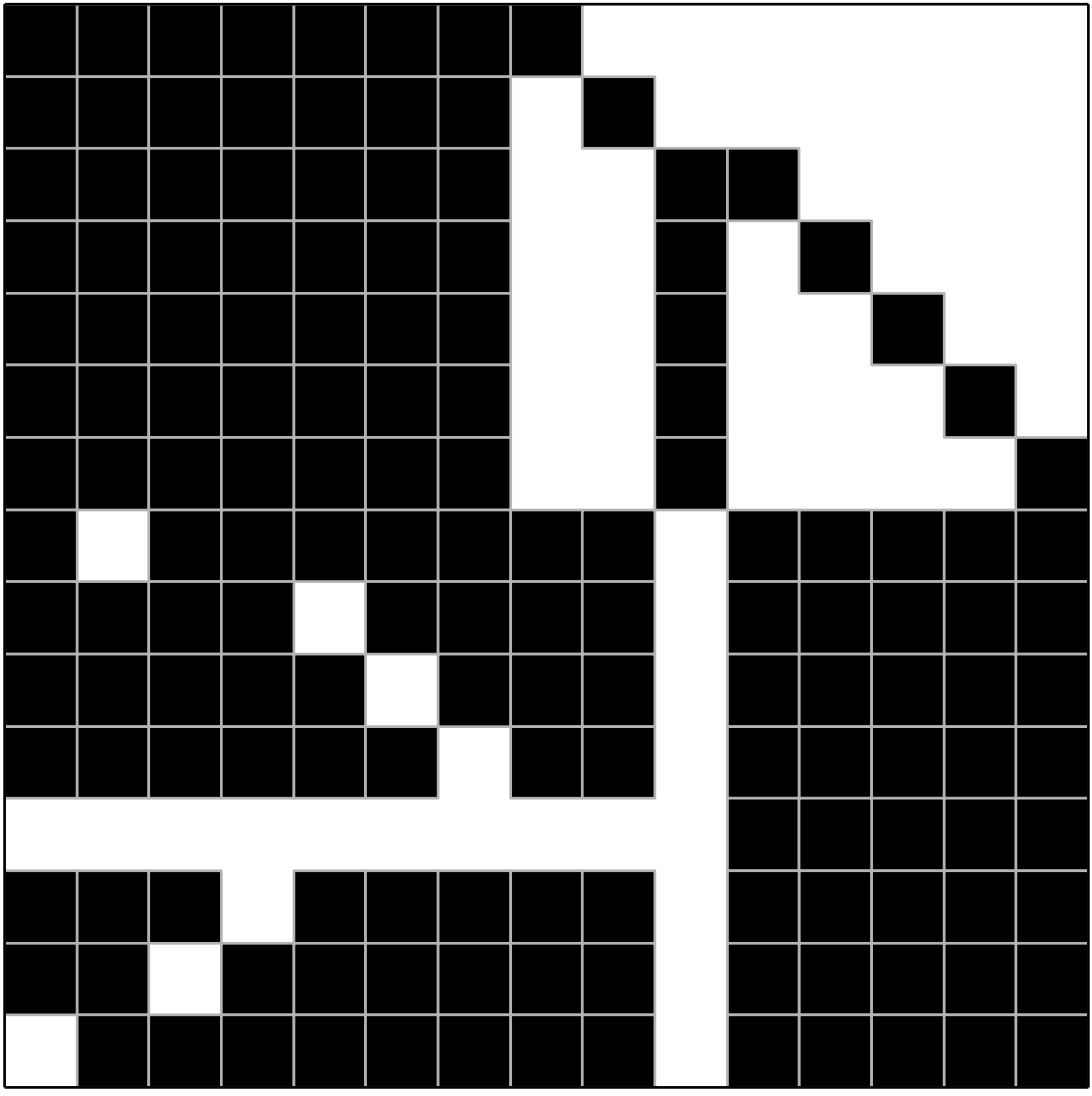
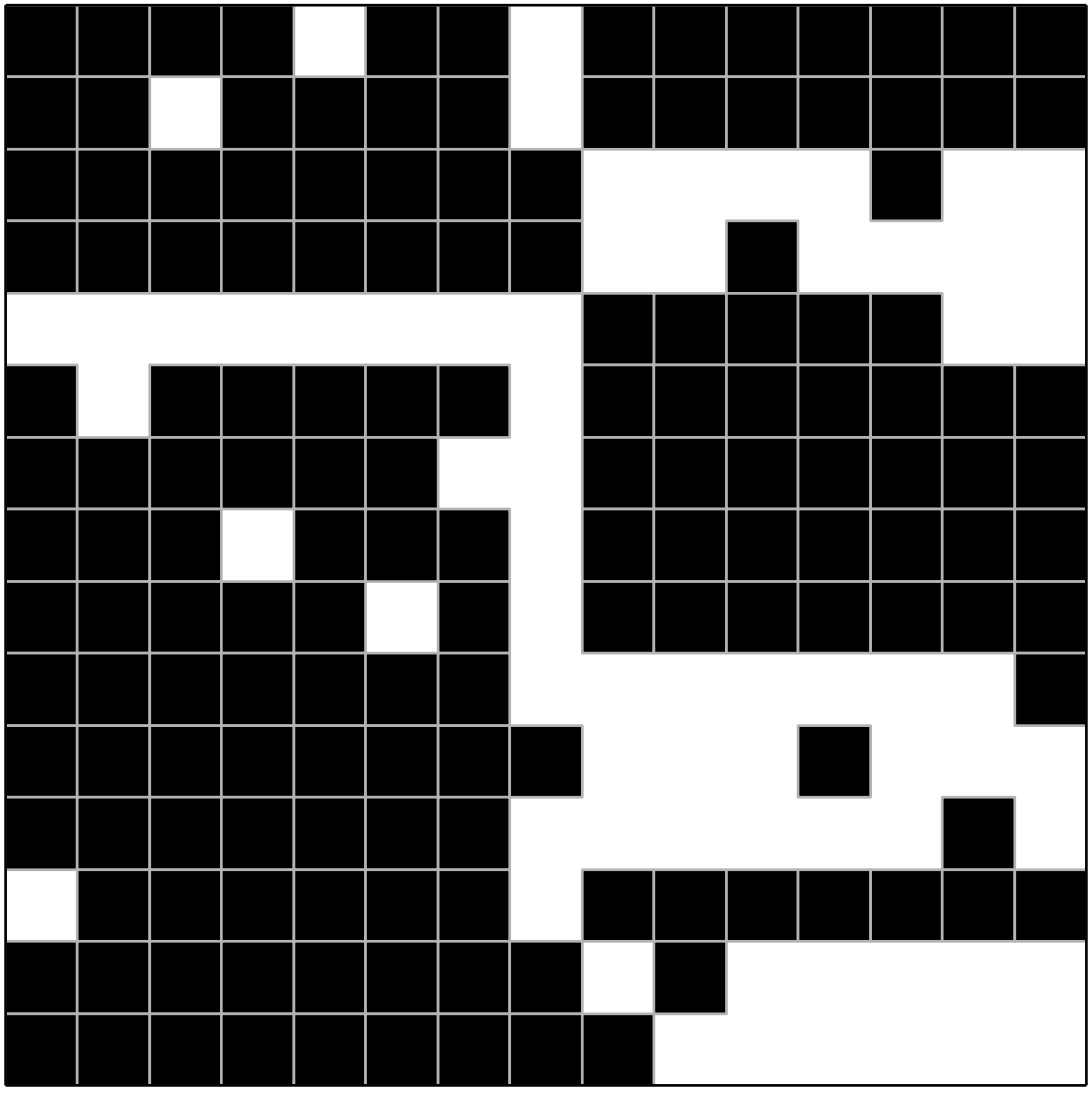


lib3_extcyc7-02 15x15 (157) con: 7, var: 8



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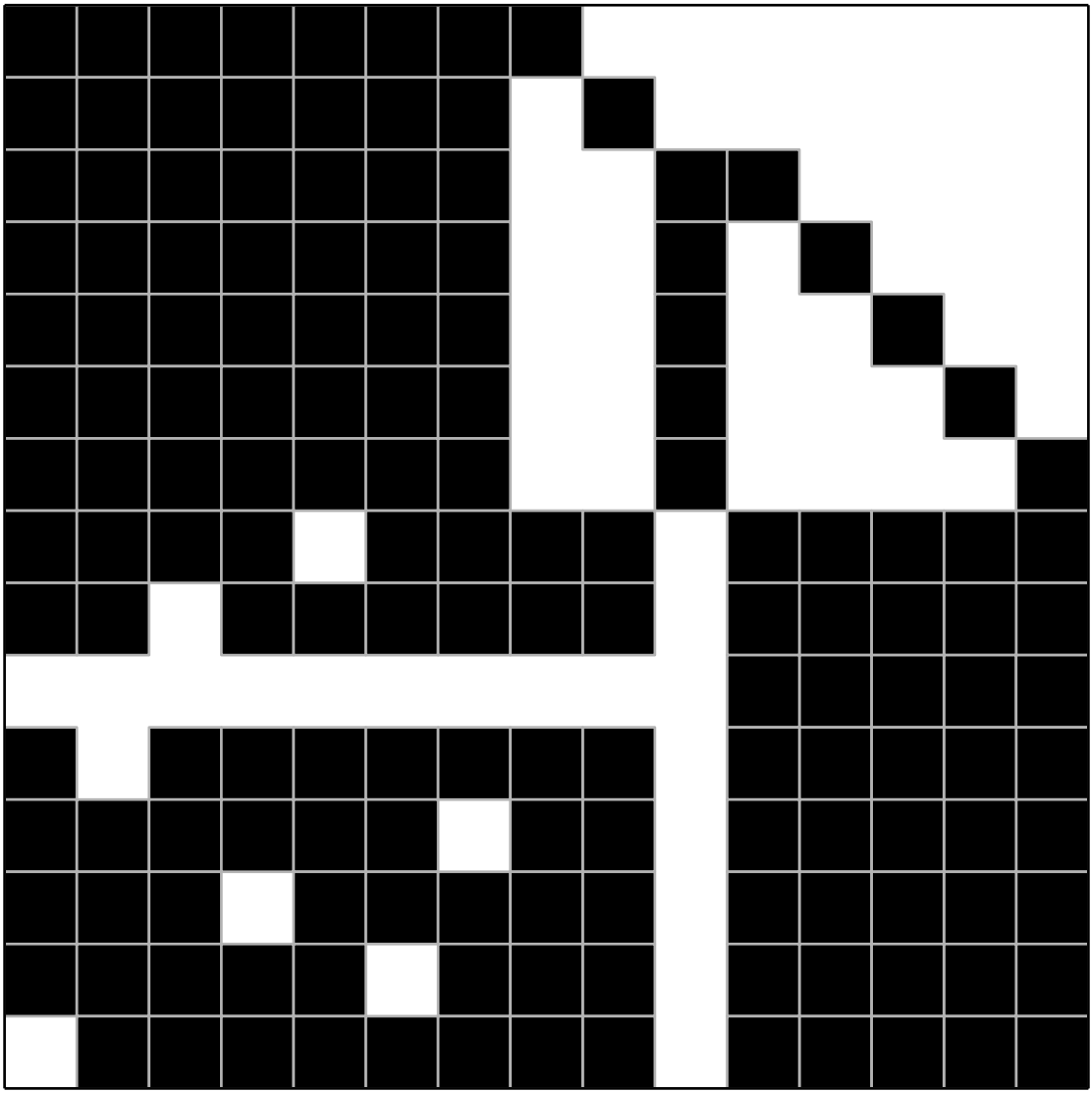

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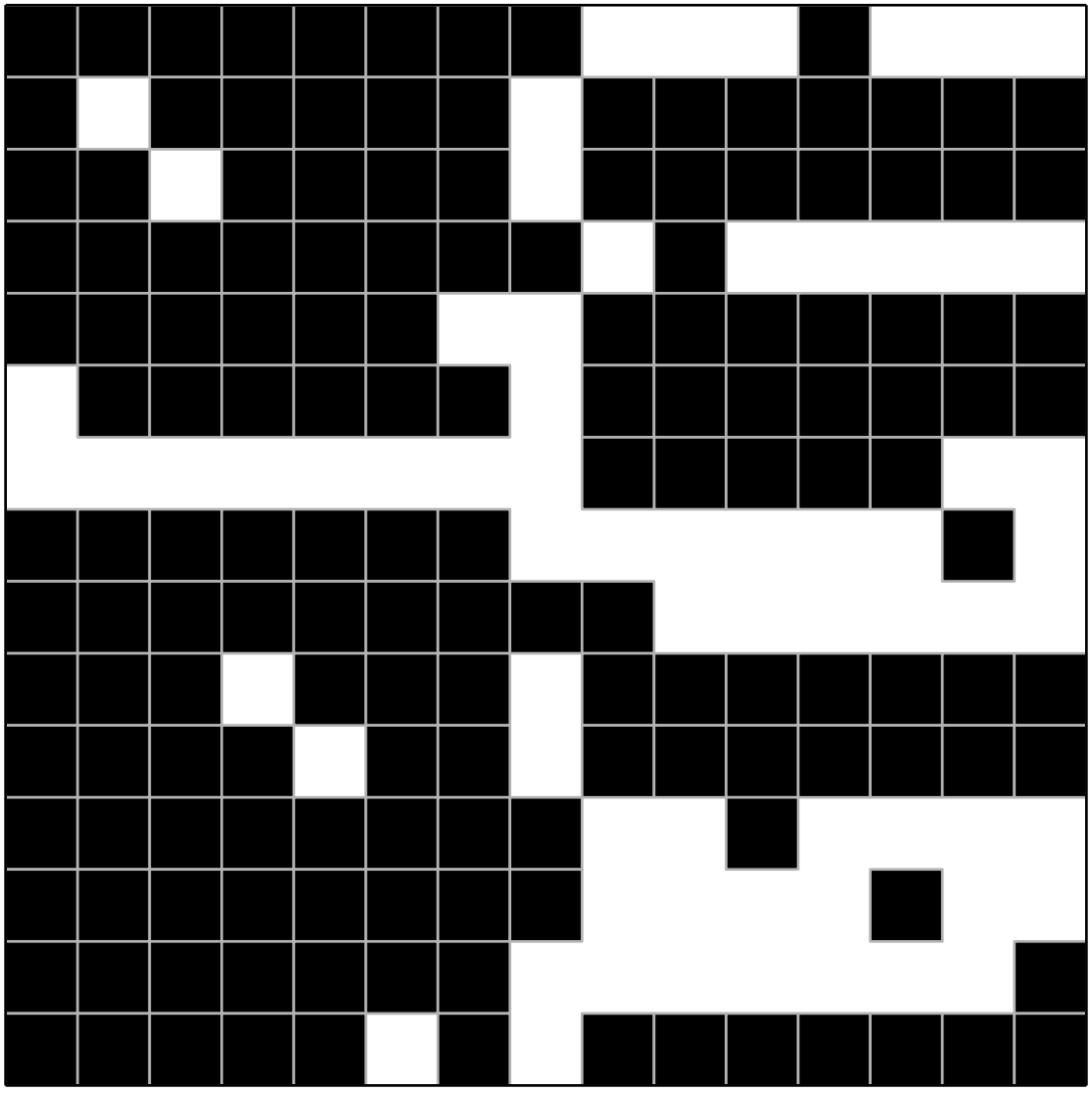

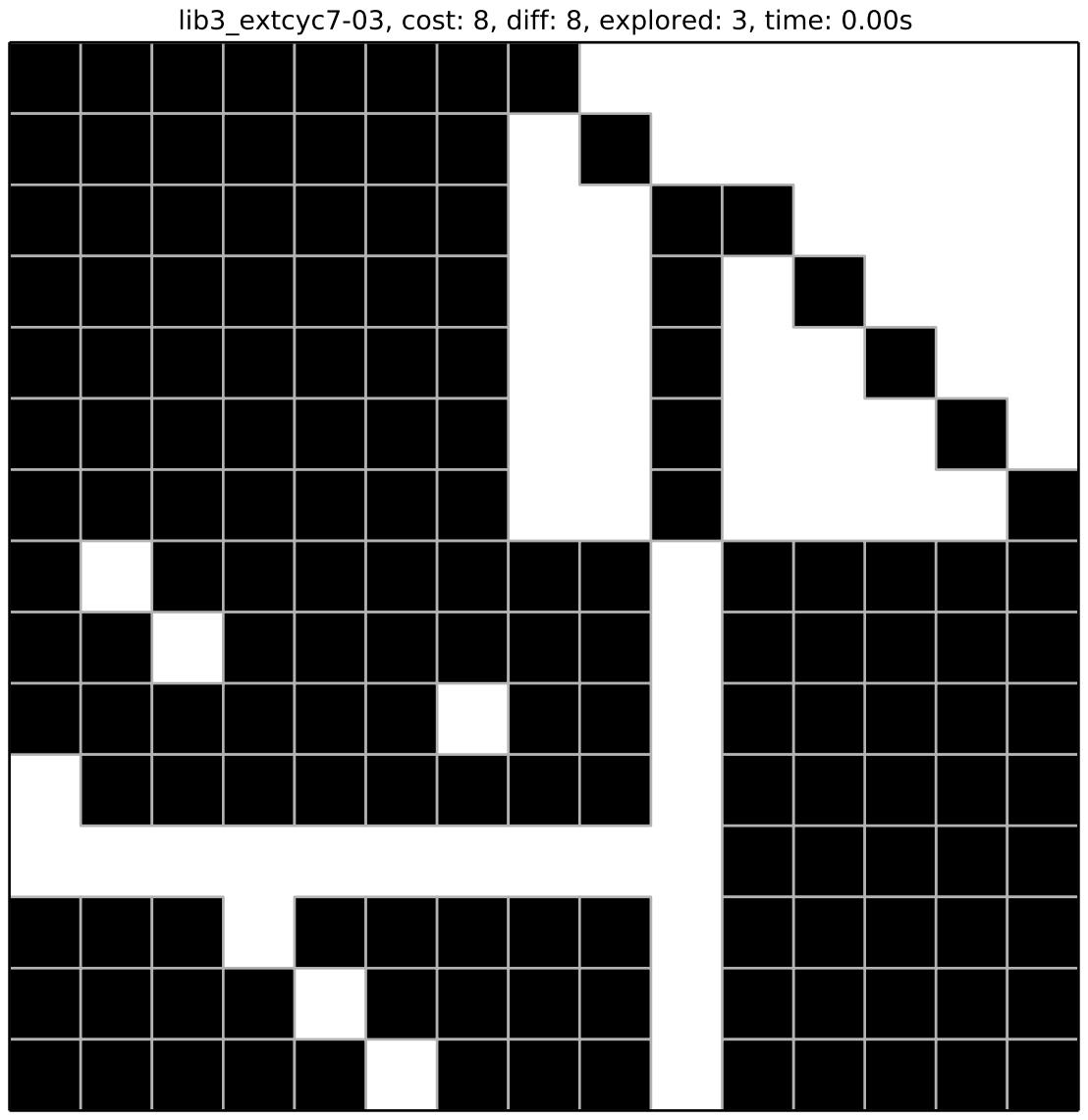
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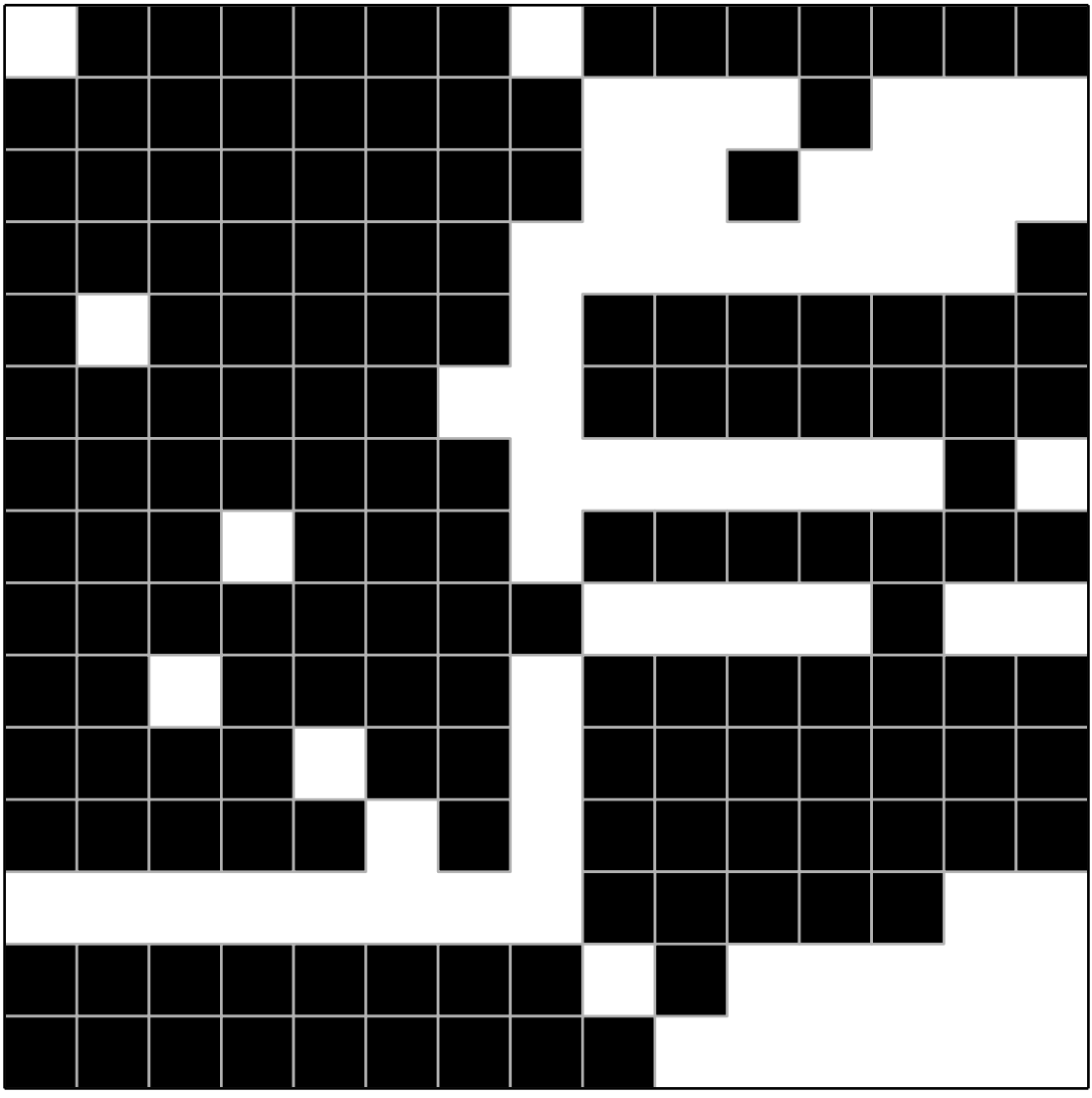
lib3_extcyc7-04 15x15 (157) con: 7, var: 8



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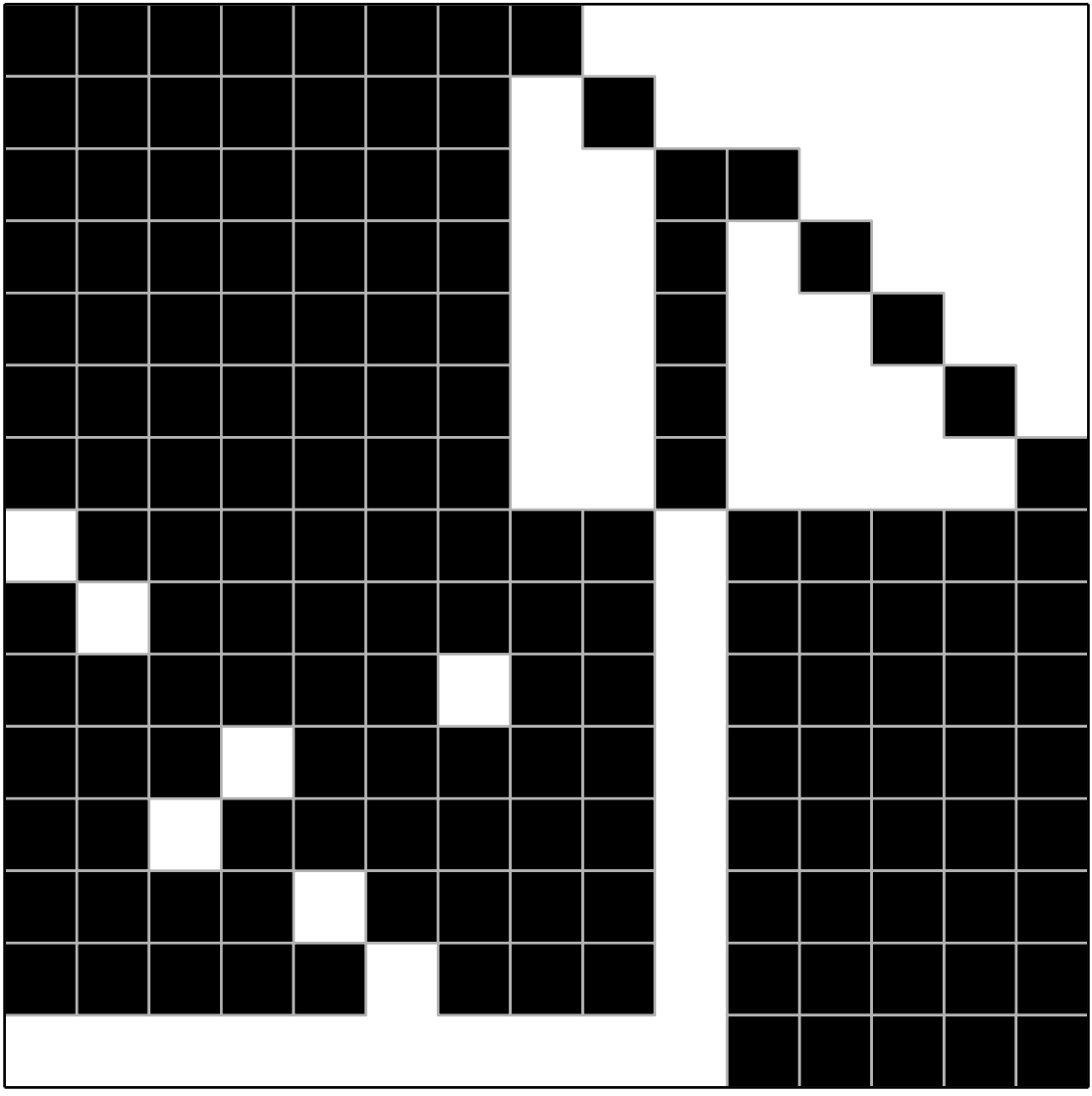

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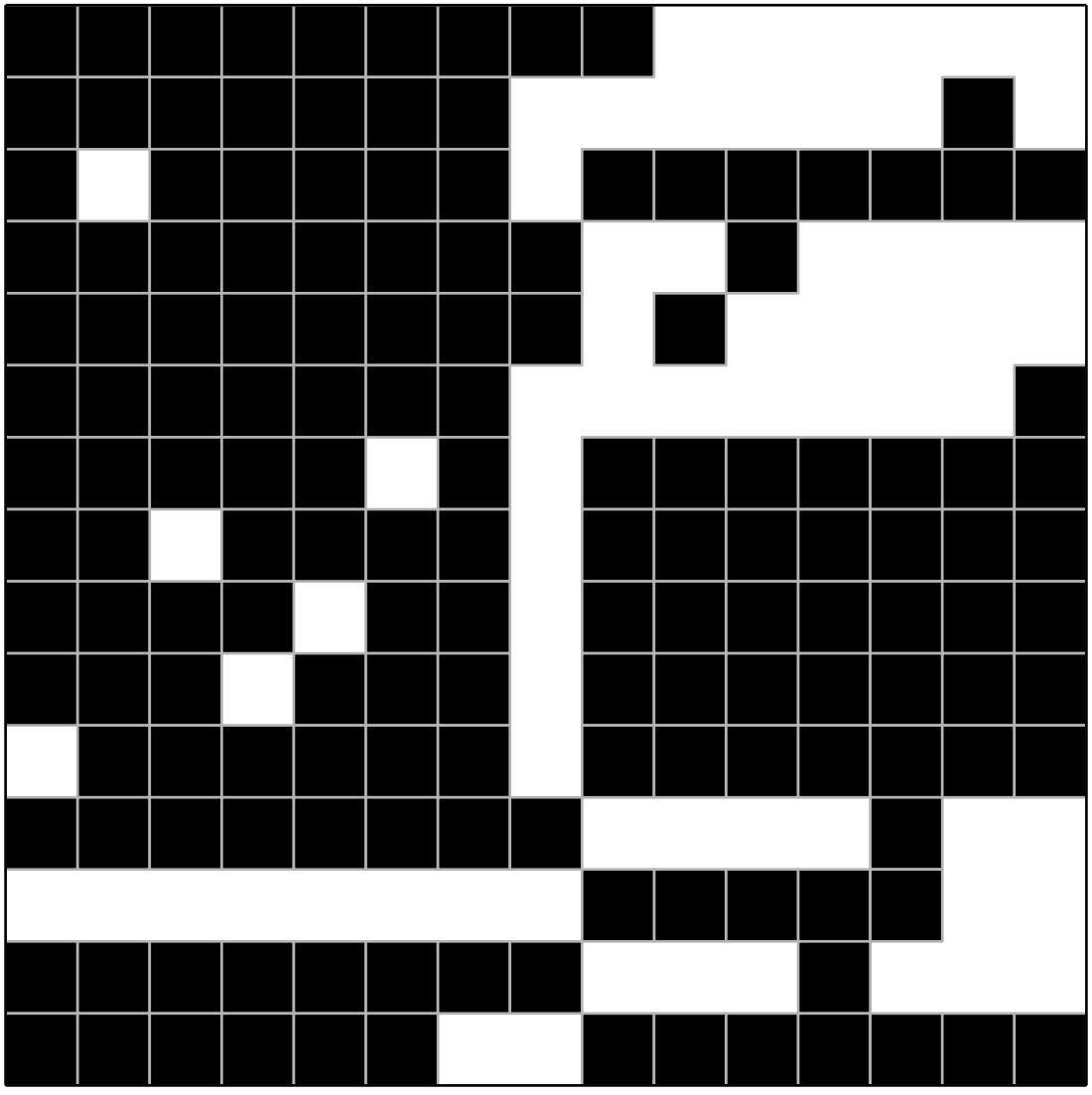

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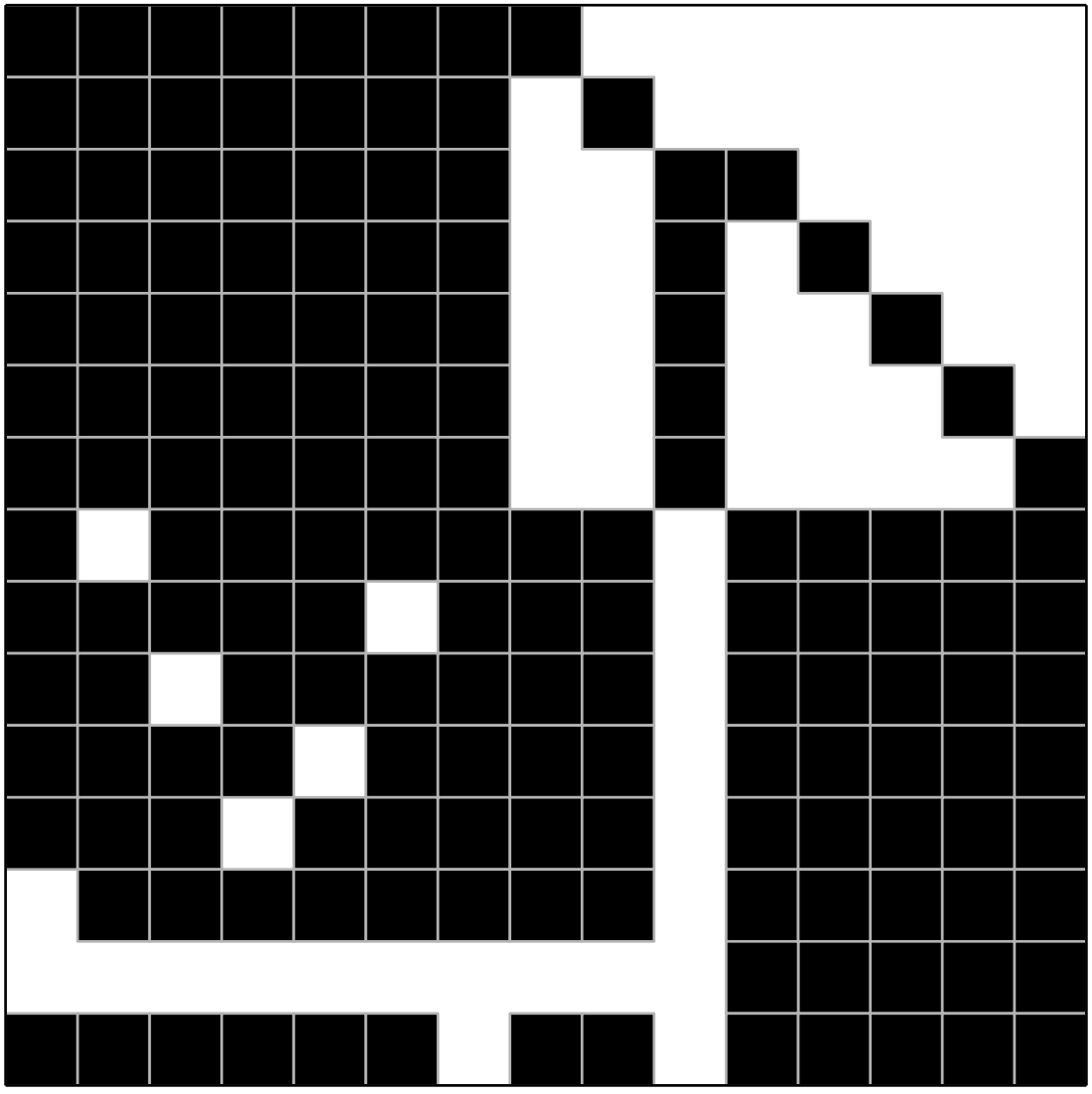

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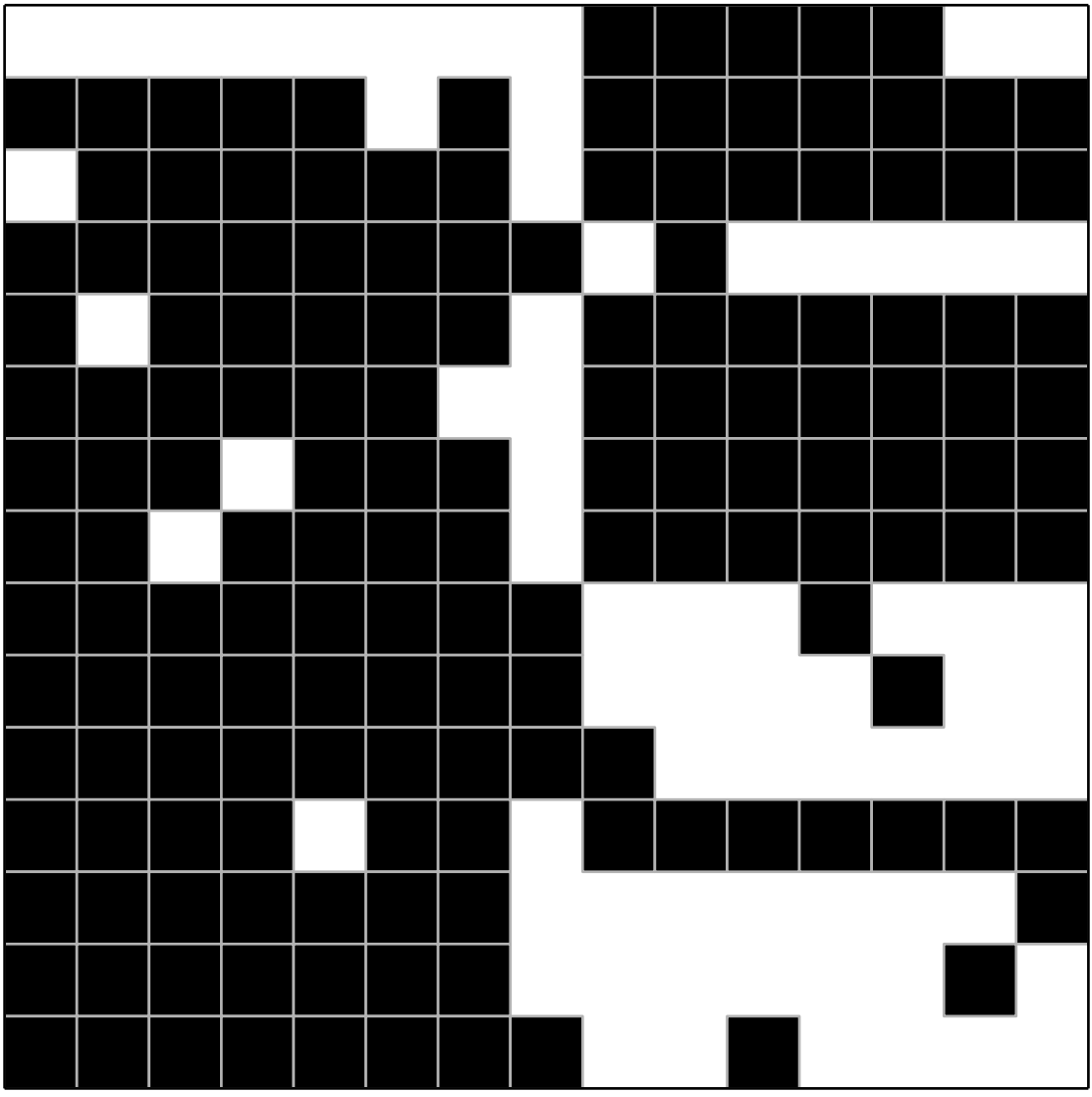

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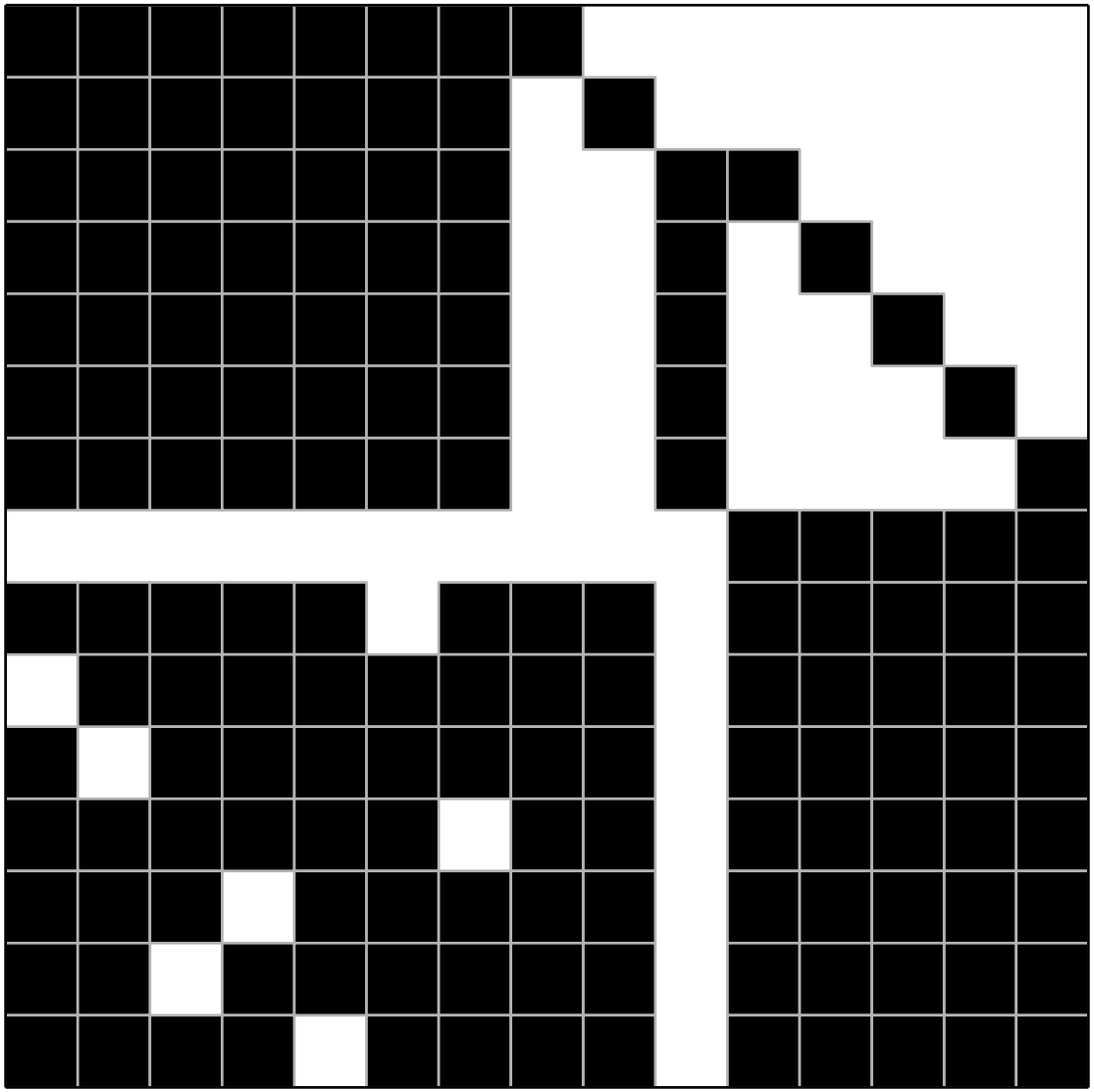

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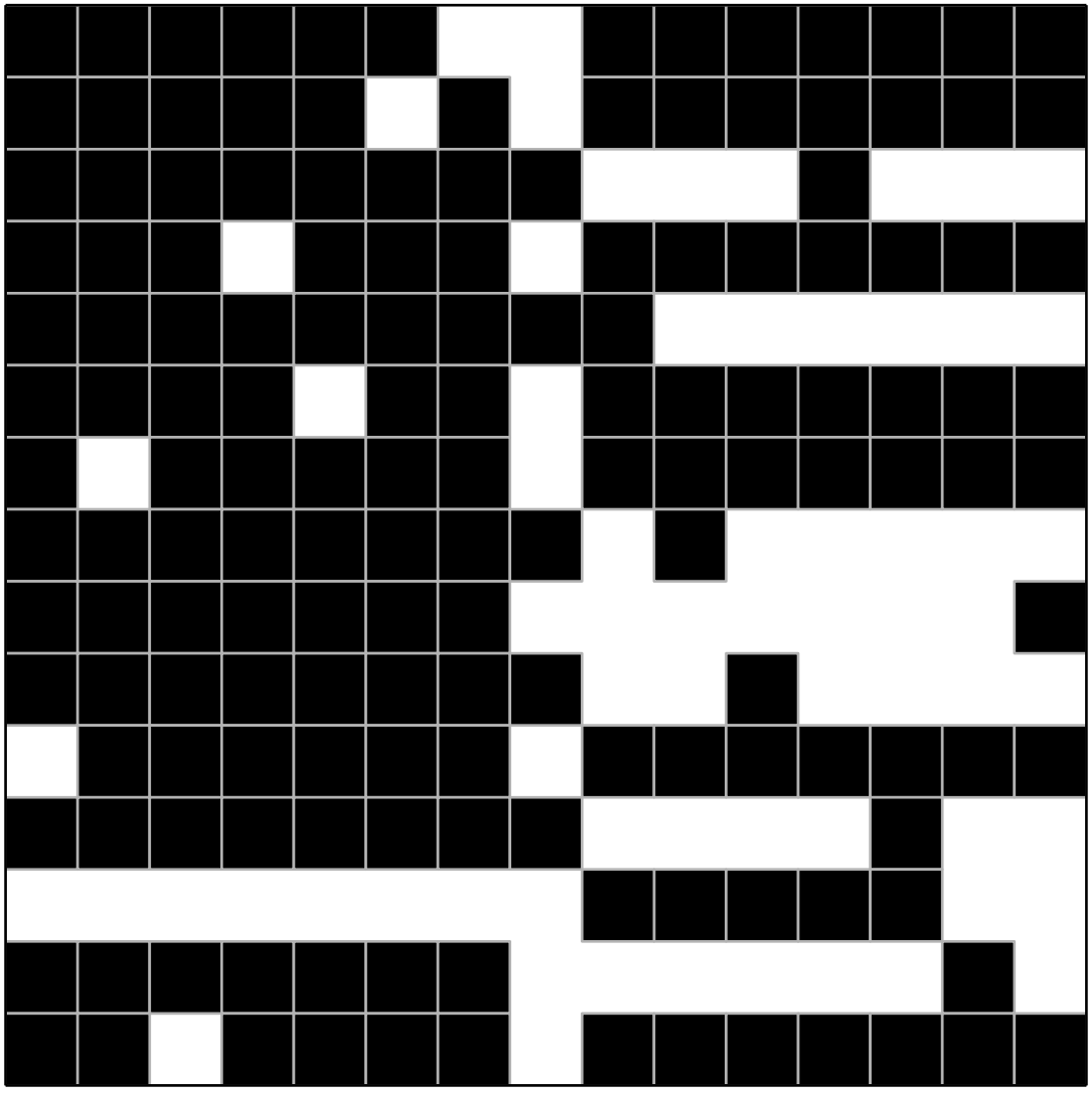

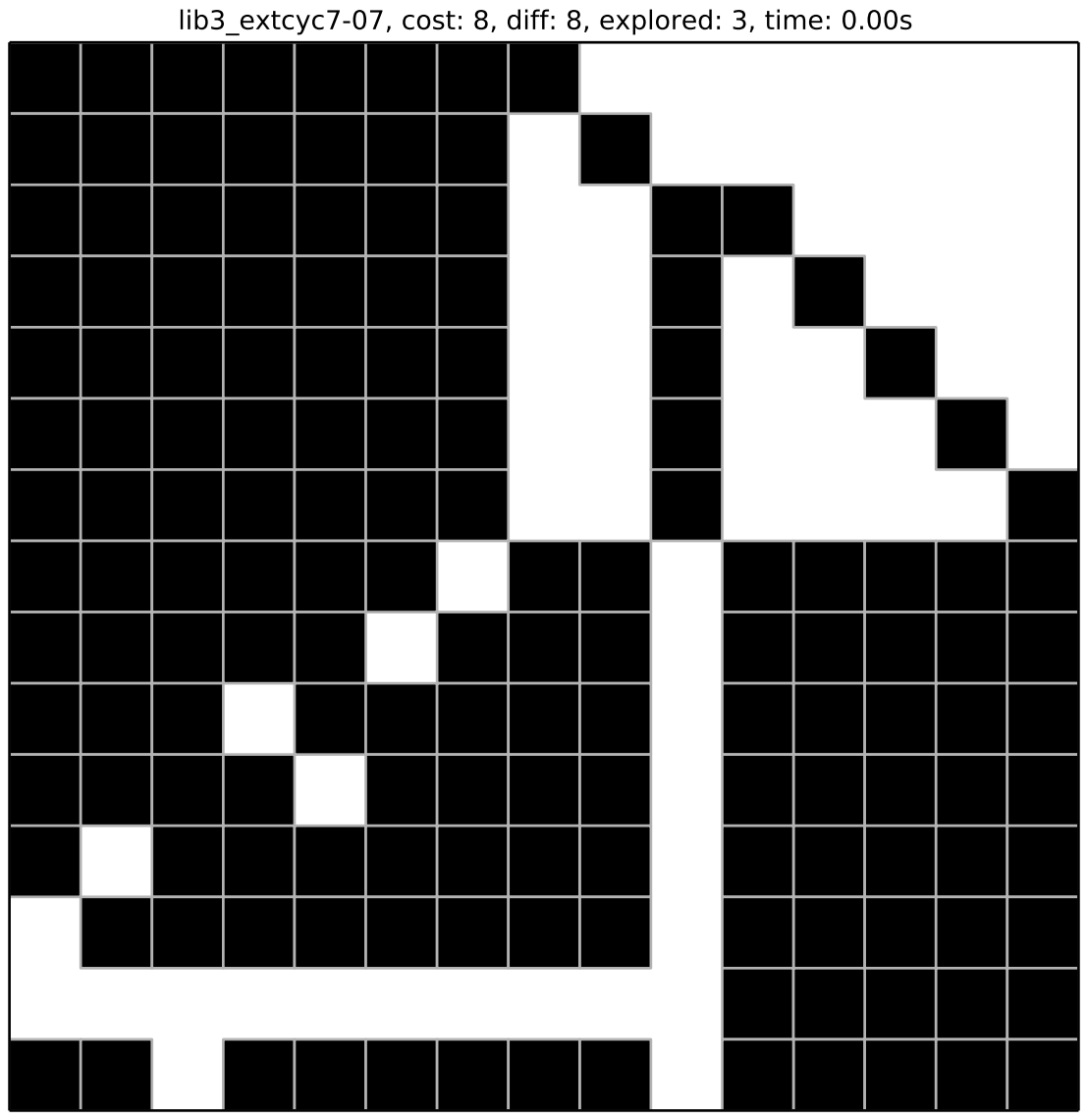
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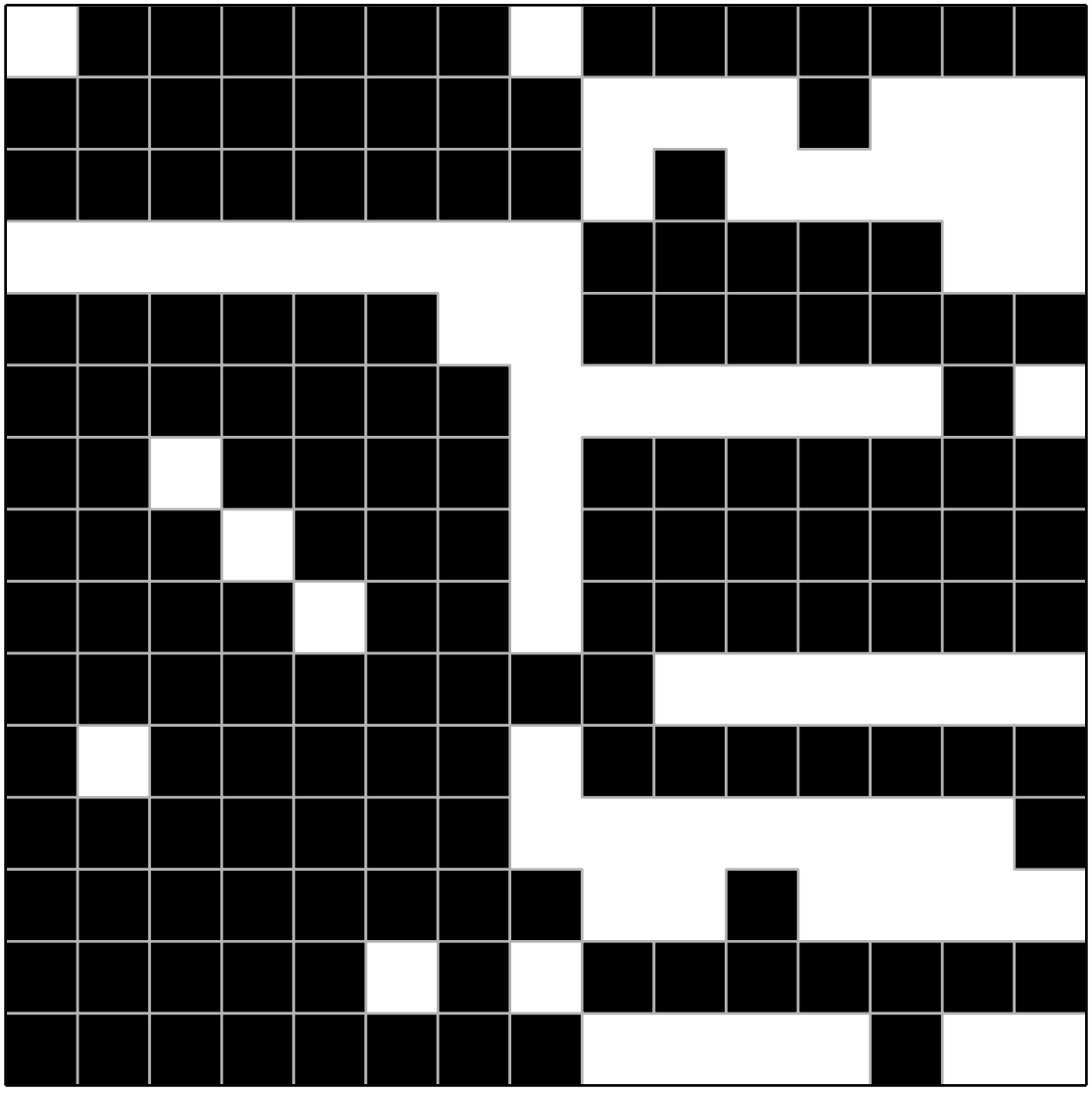

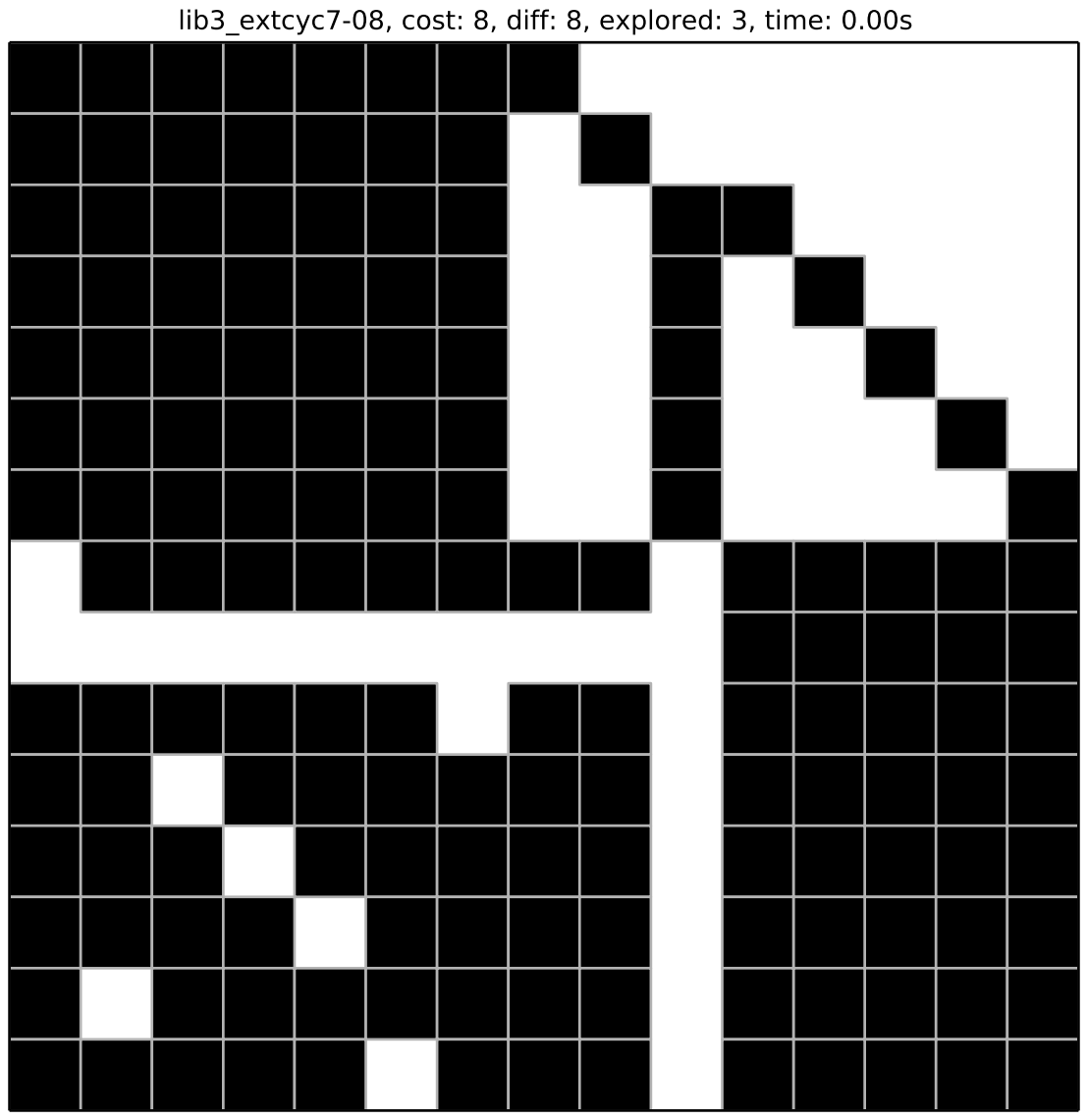
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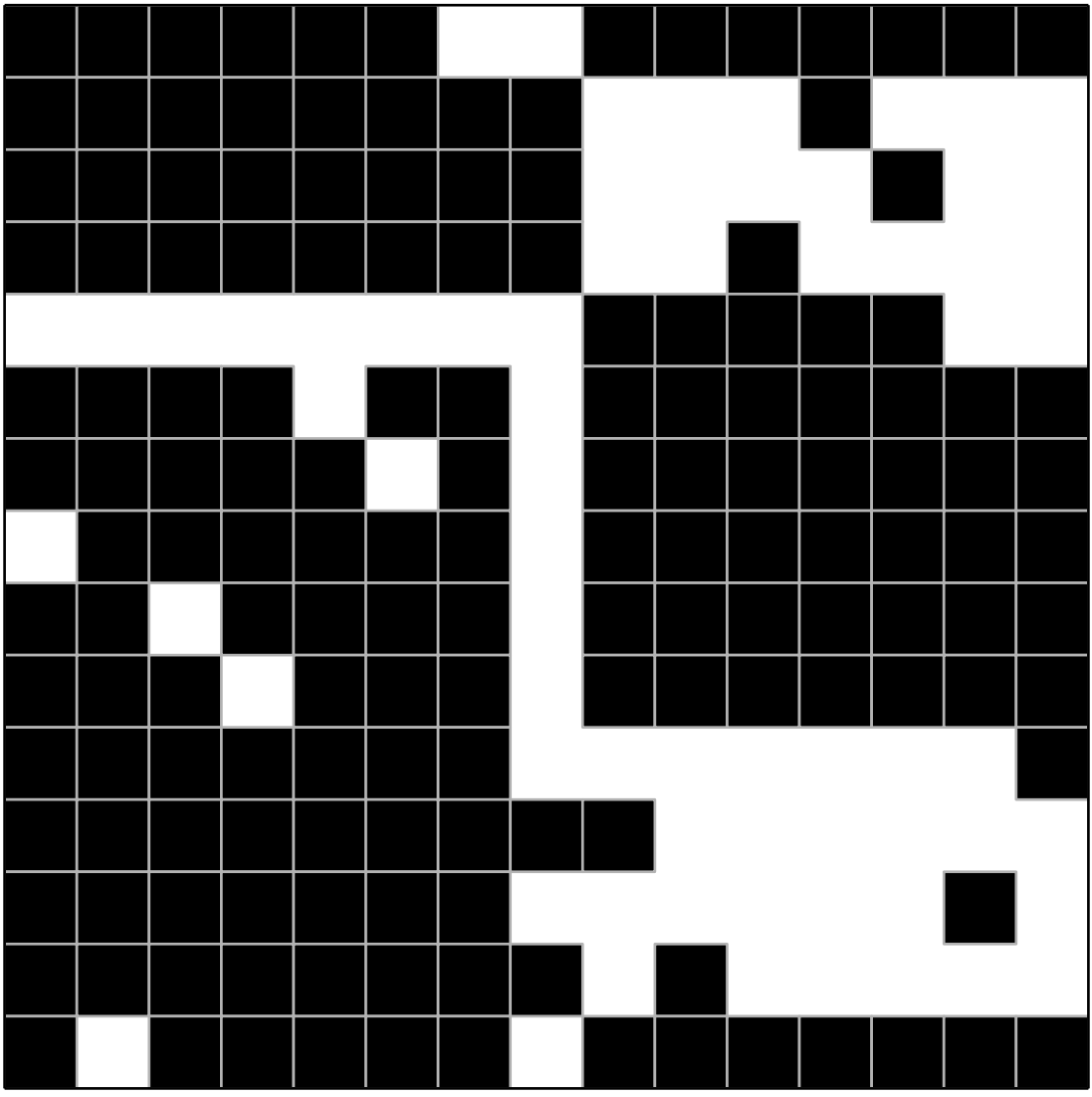

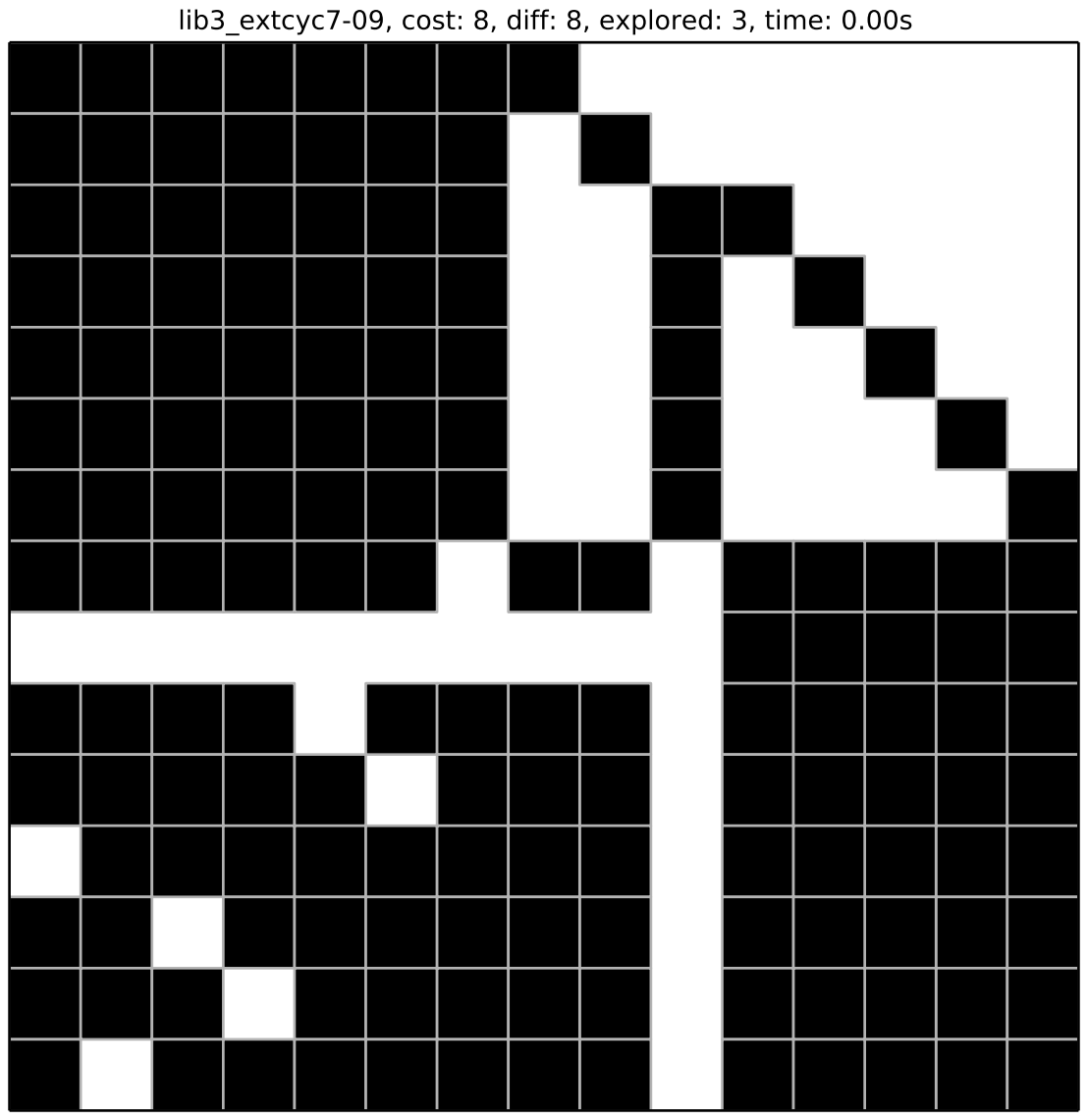
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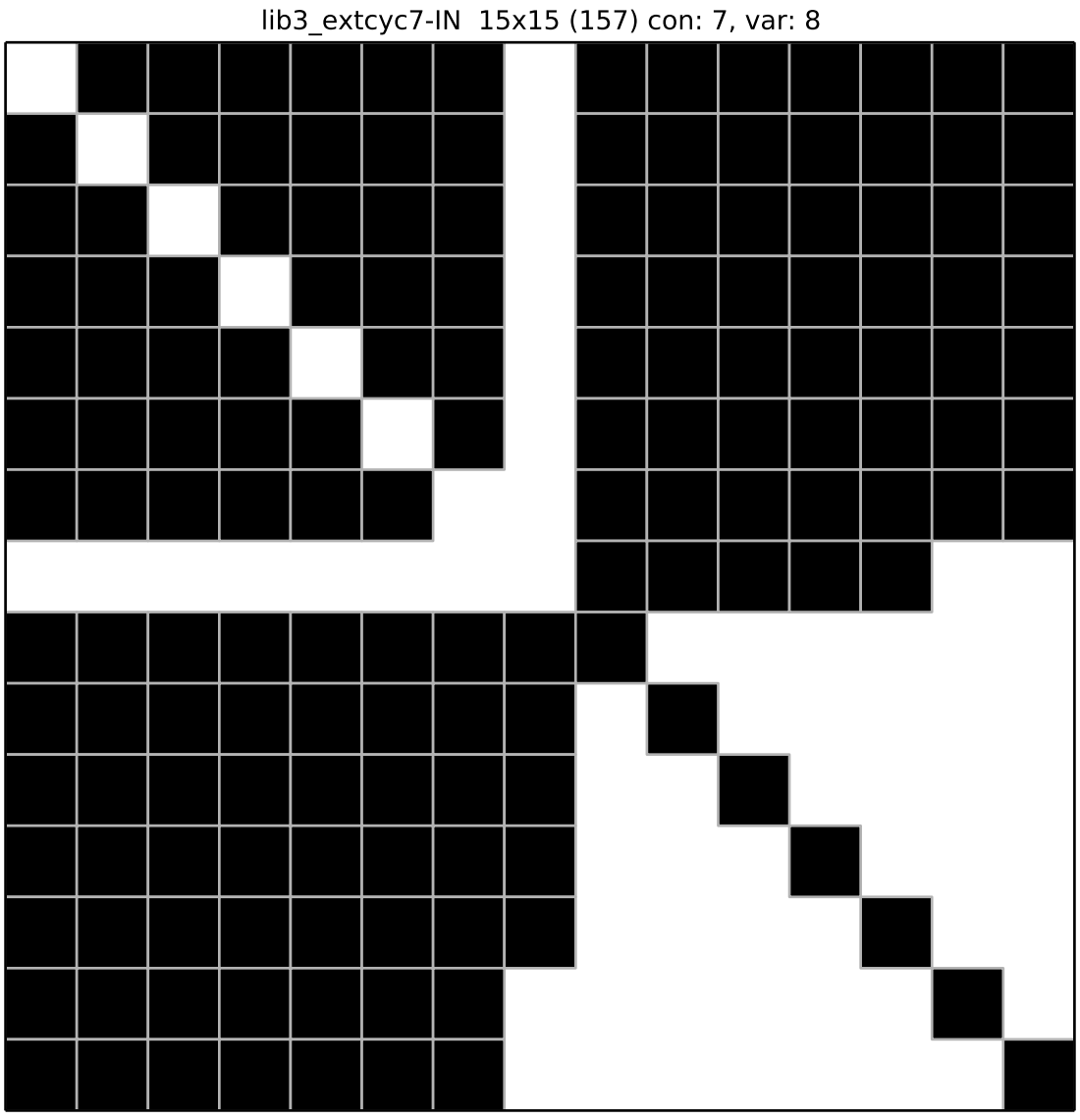
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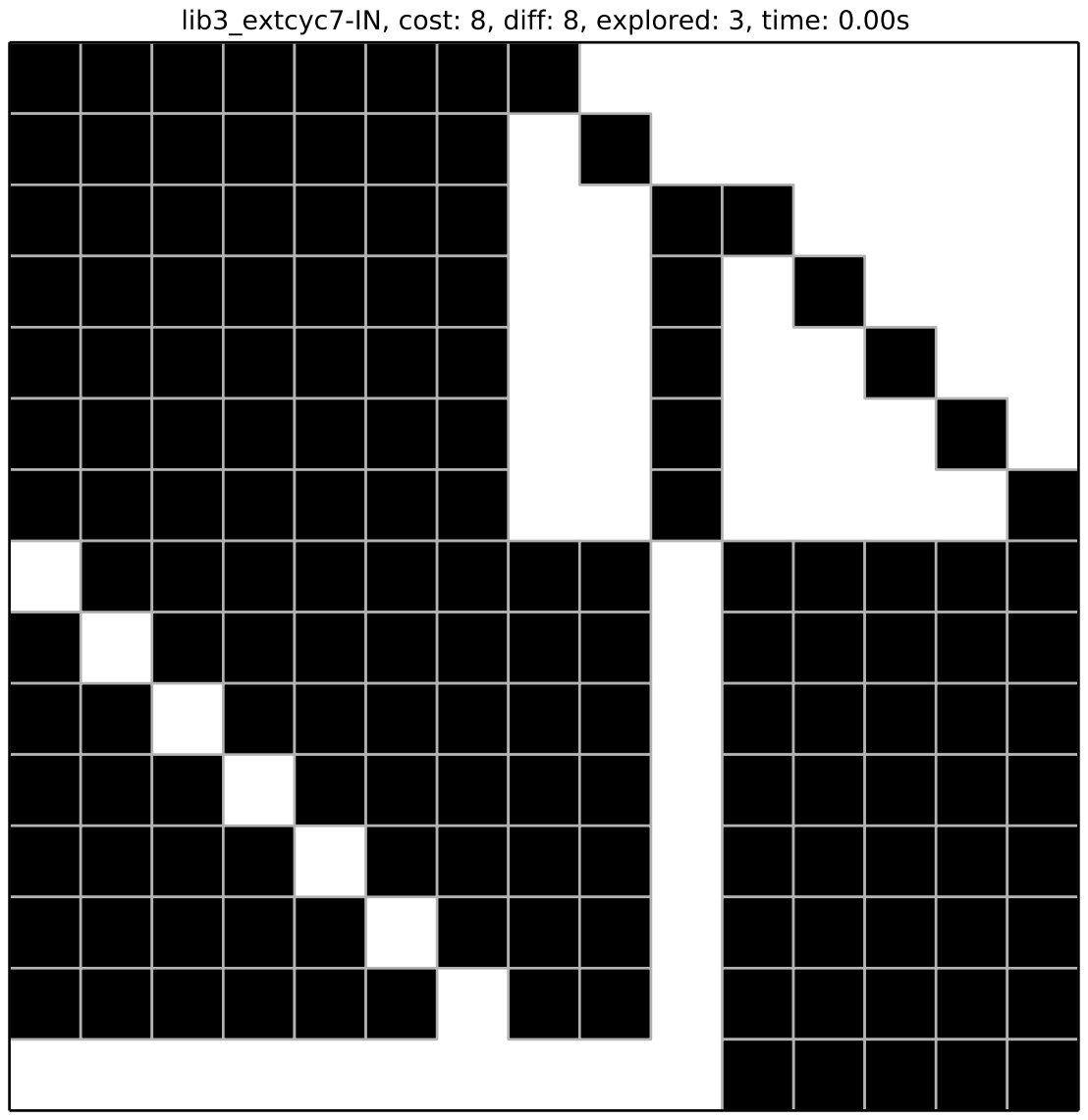
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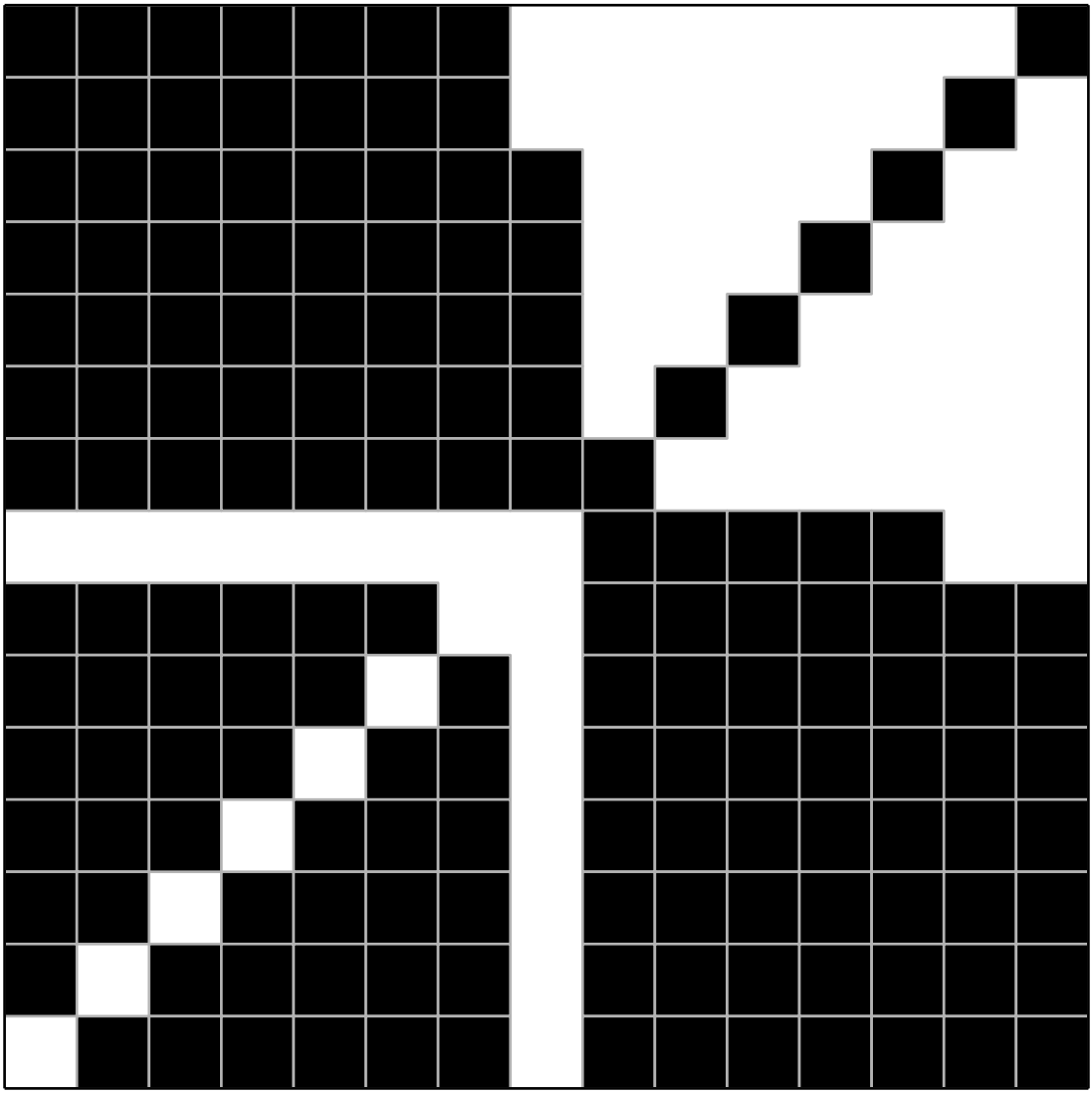
lib3_extcyc7-RE 15x15 (157) con: 7, var: 8



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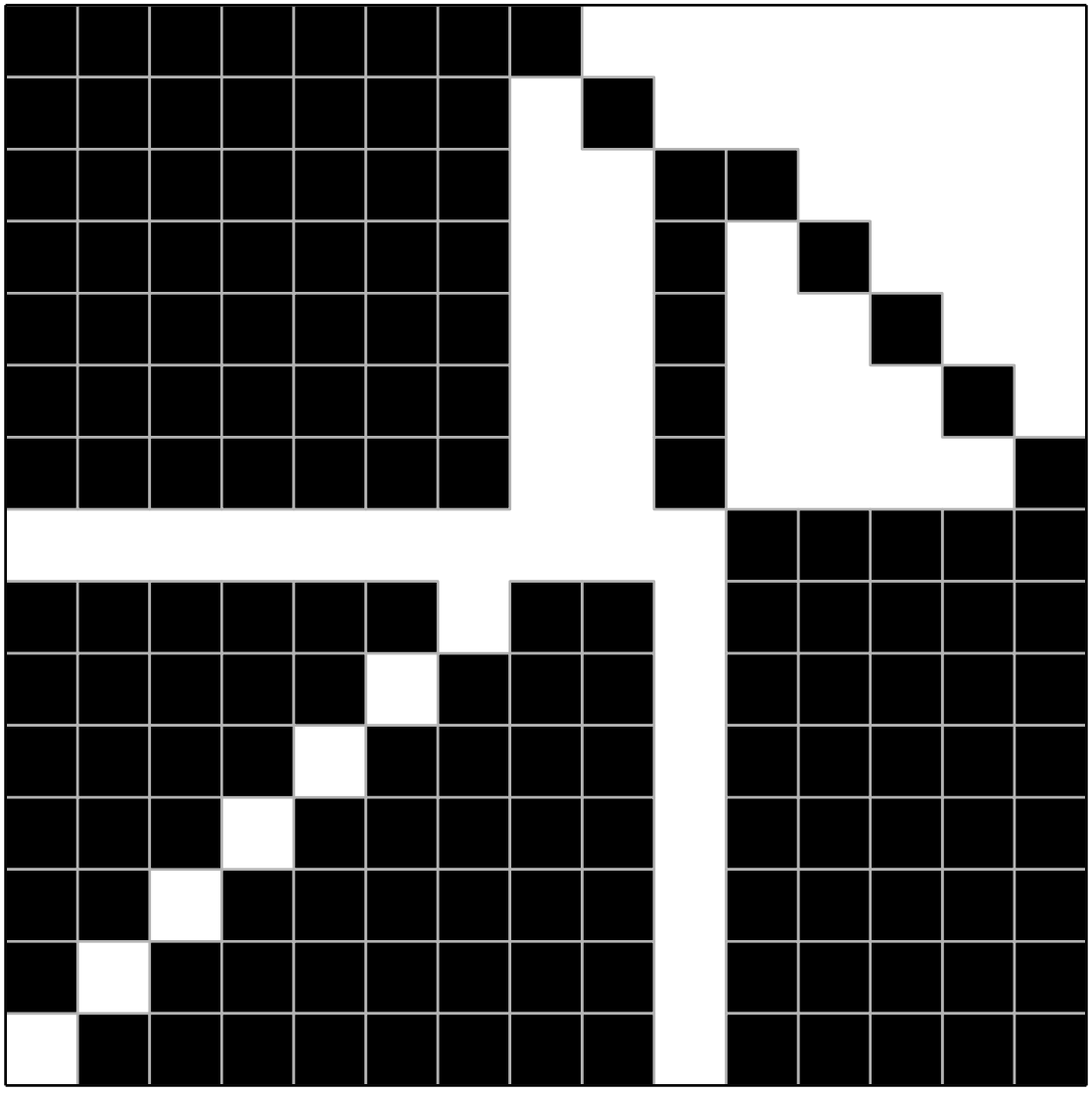
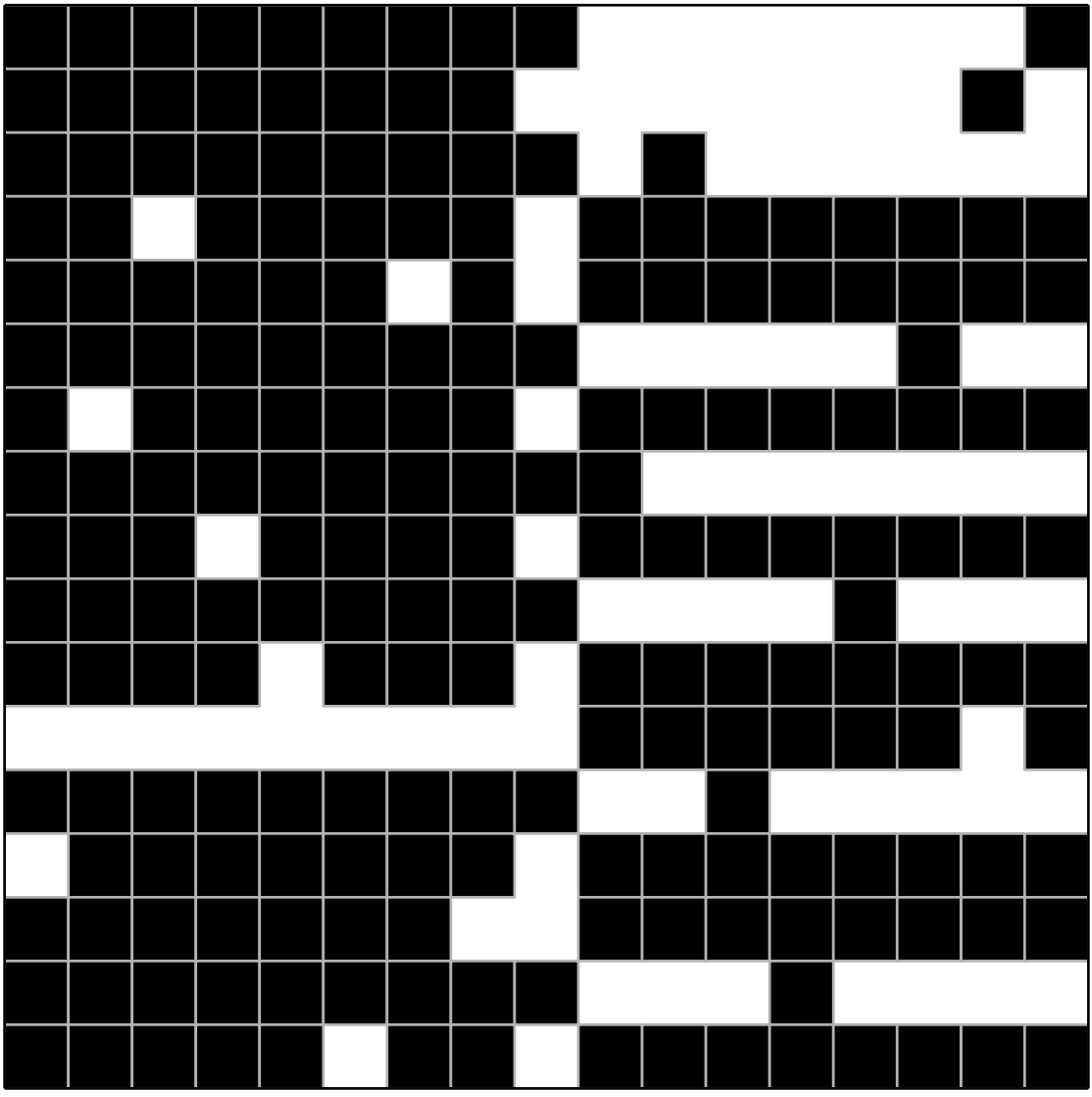
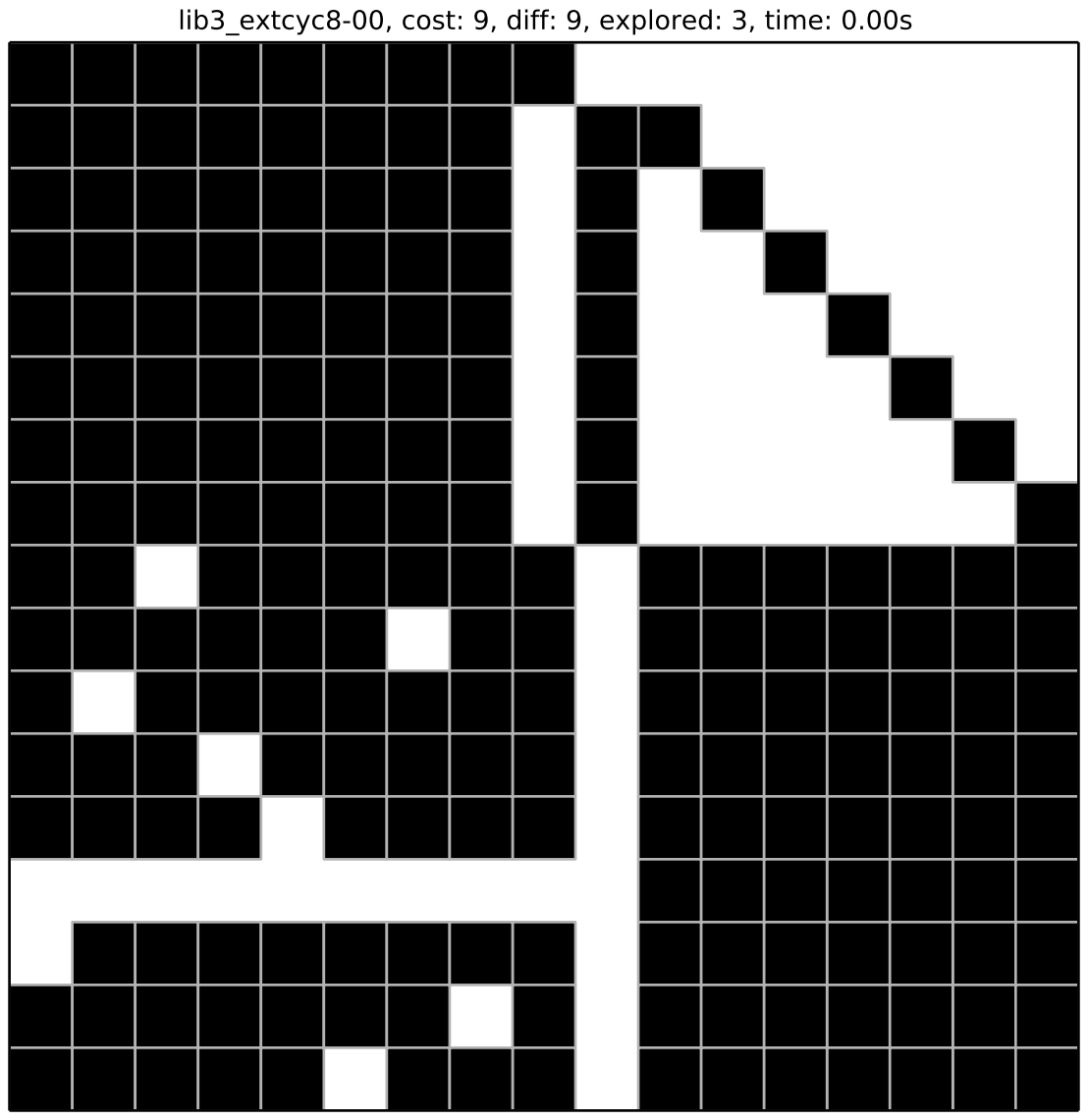


lib3_extcyc8-00 17x17 (206) con: 8, var: 9

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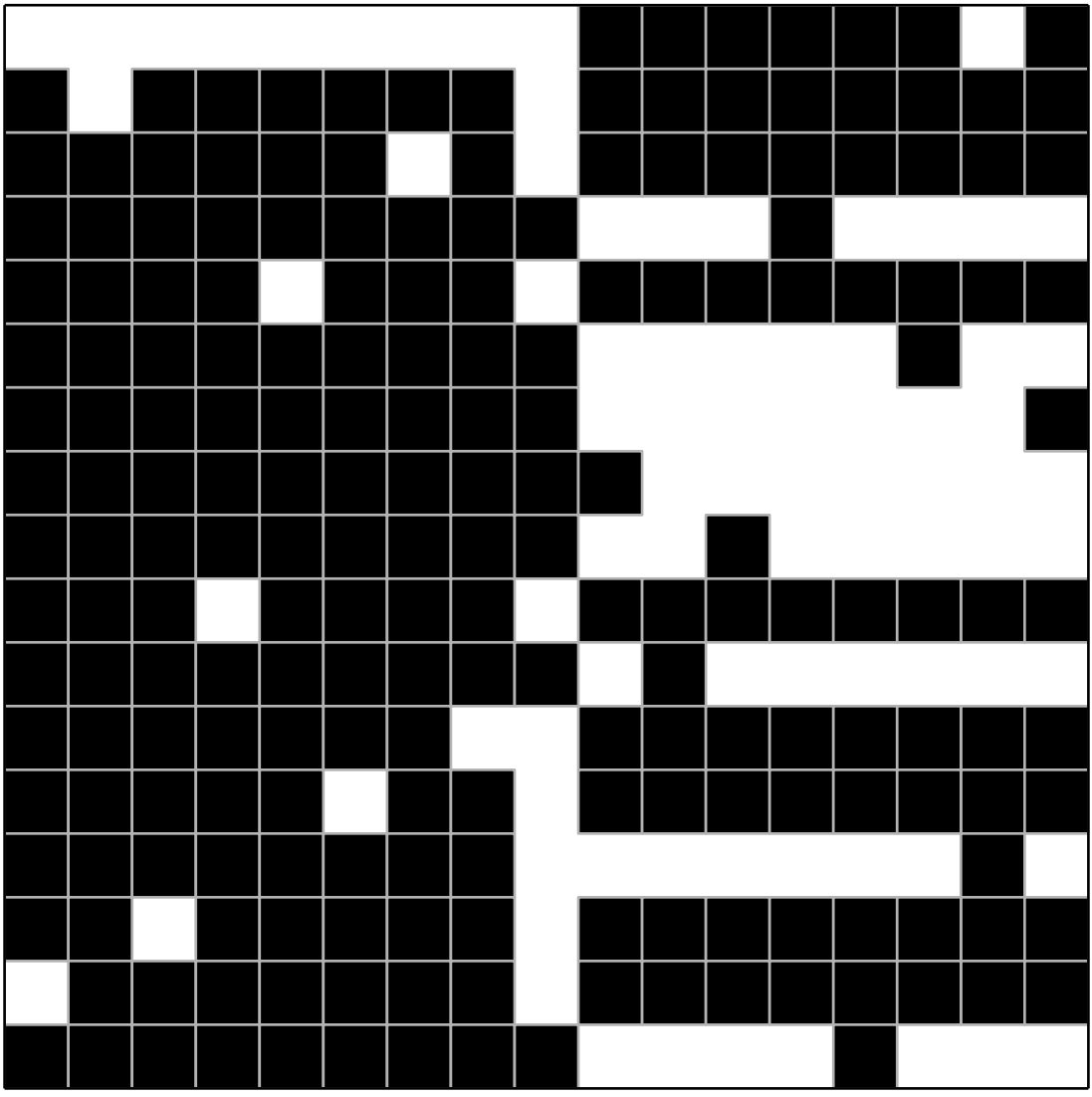
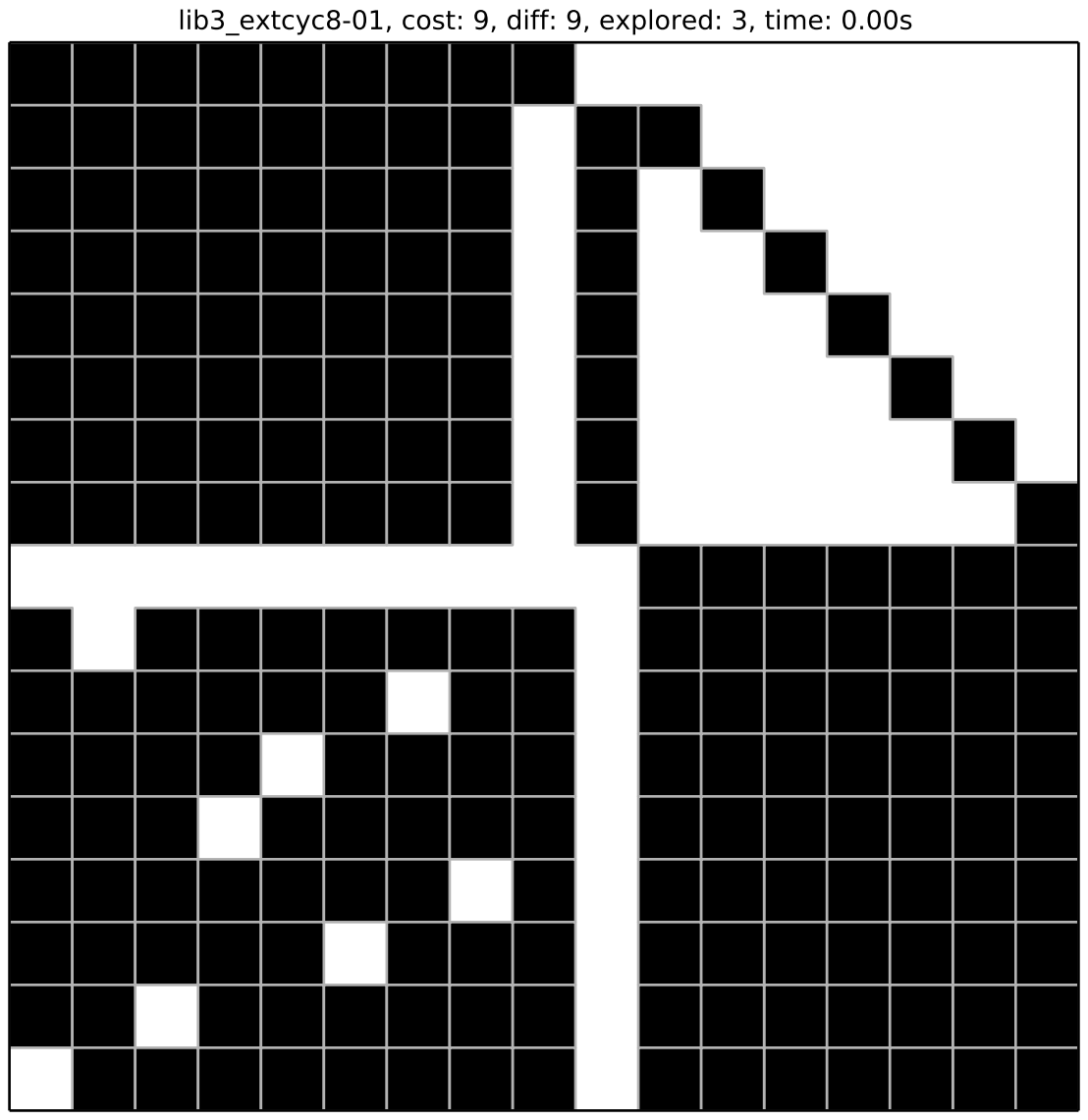
lib3_extcyc8-01 17x17 (206) con: 8, var: 9

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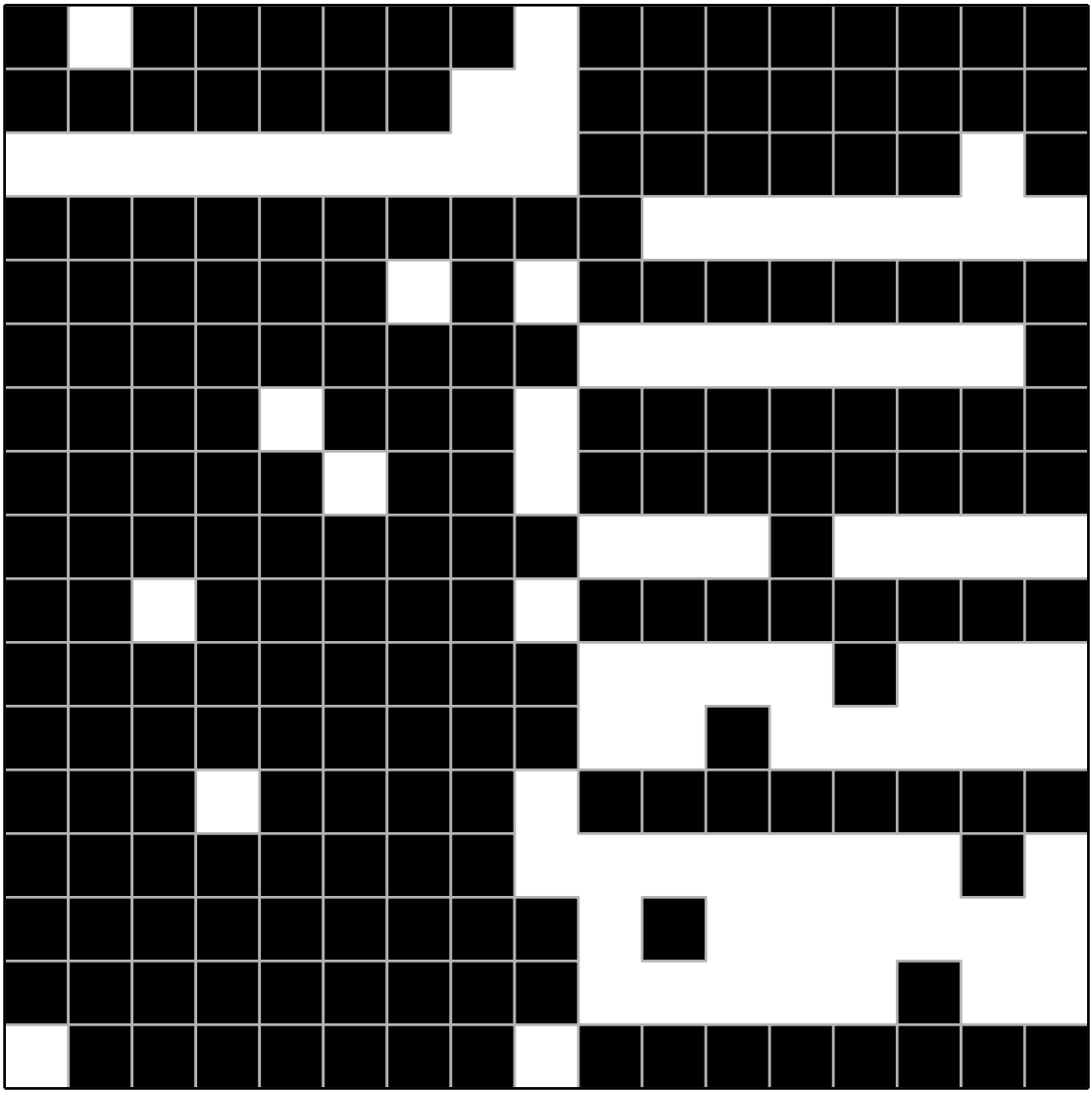
lib3_extcyc8-02 17x17 (206) con: 8, var: 9



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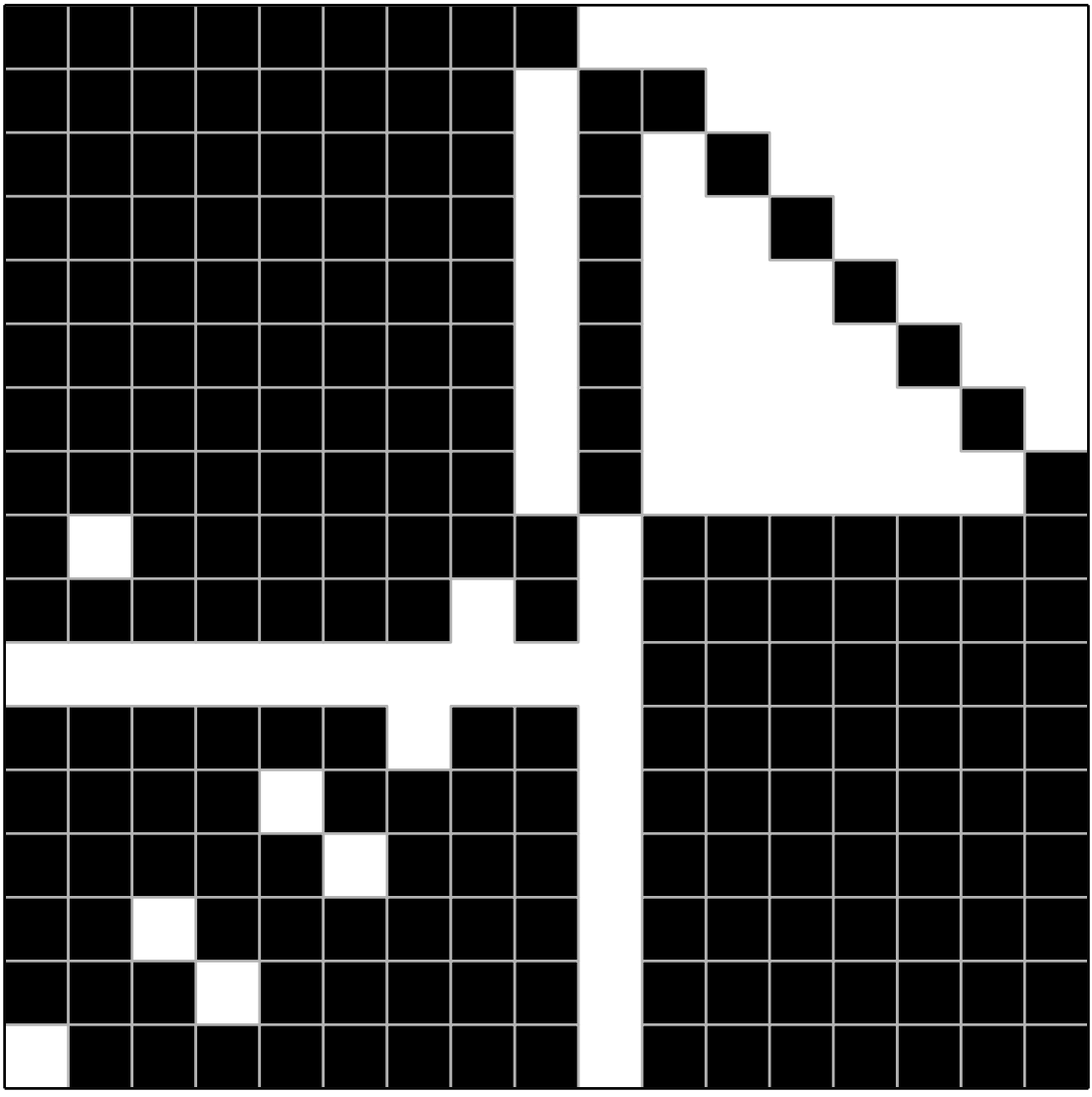
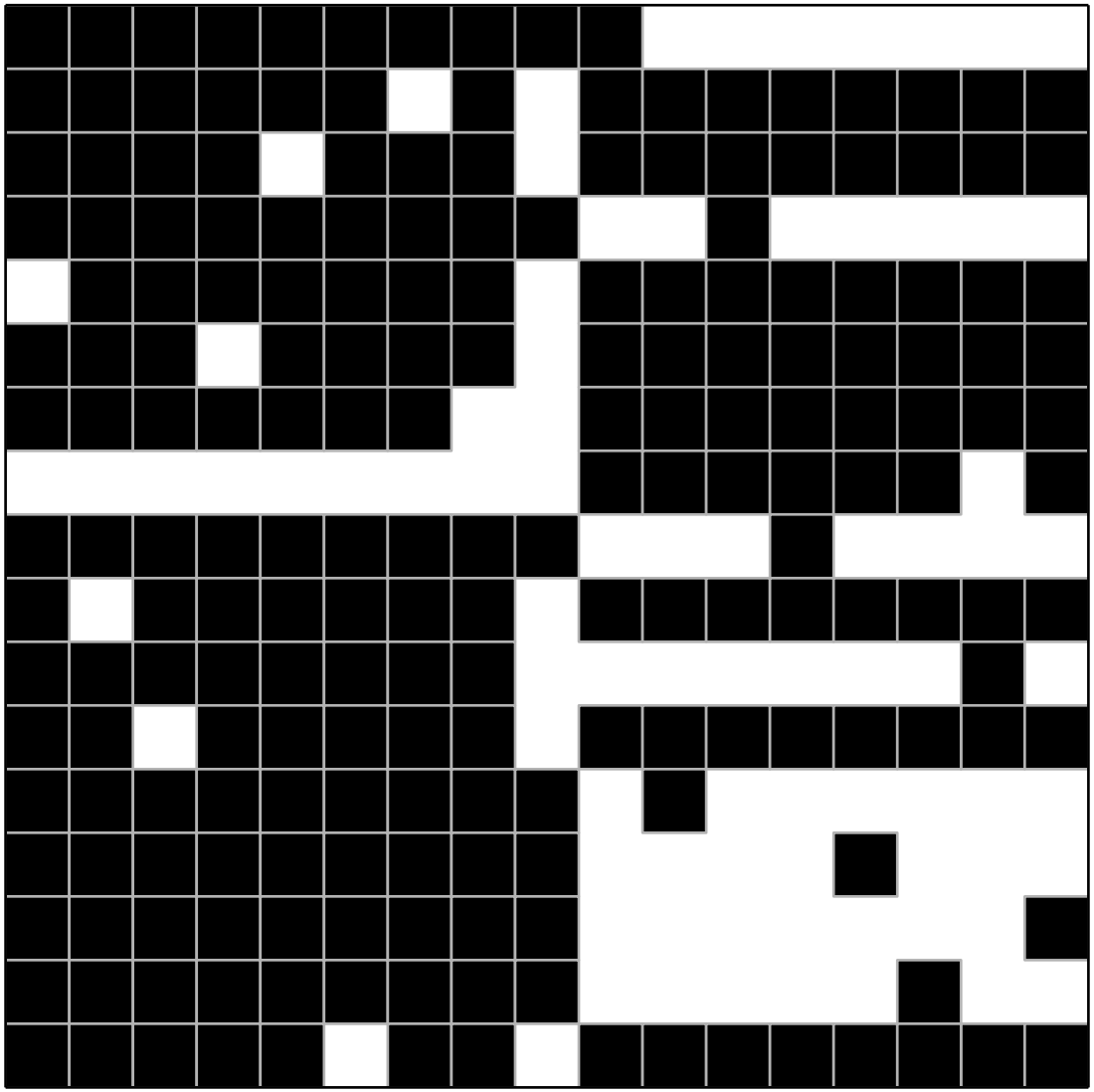
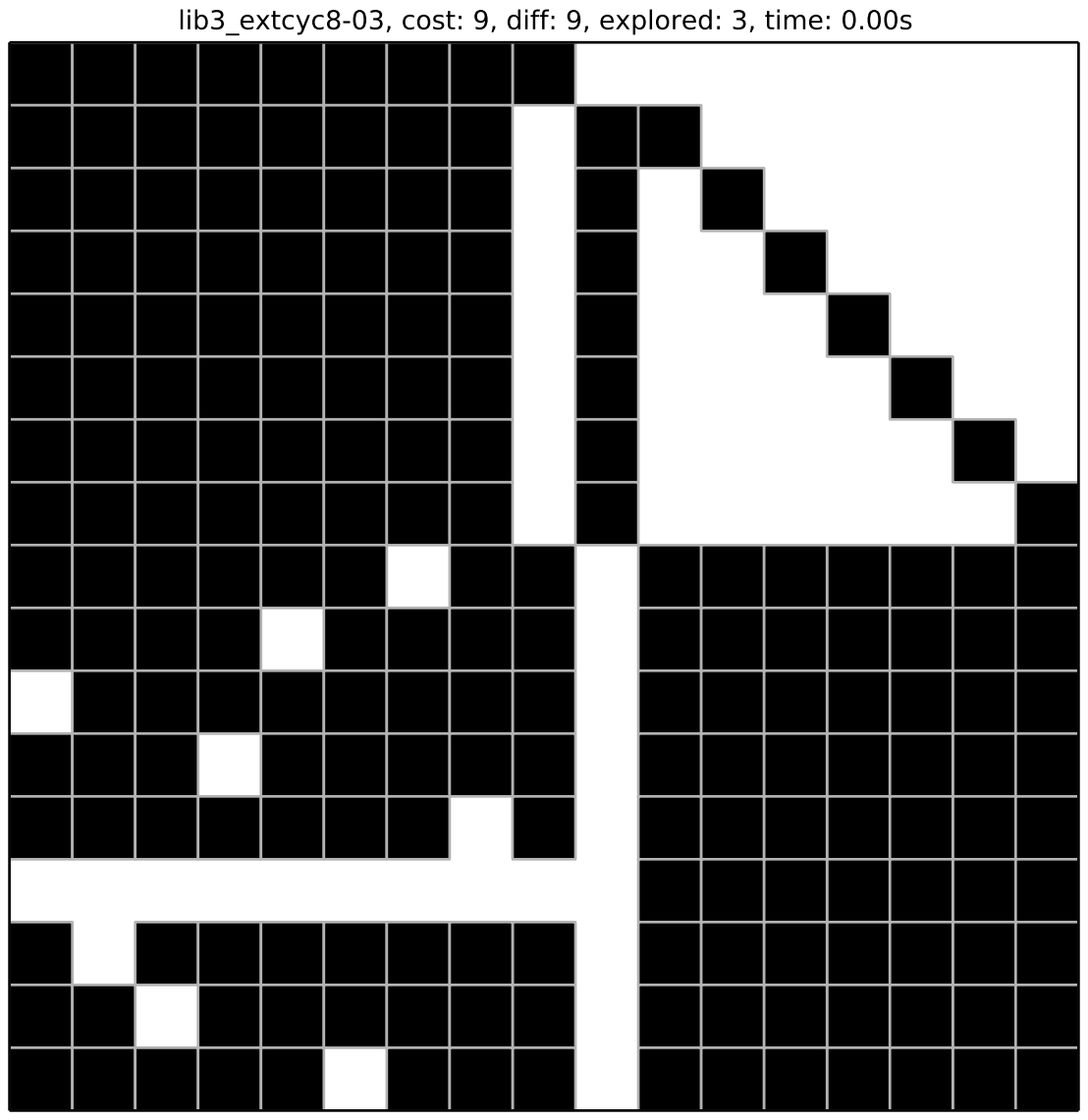


lib3_extcyc8-03 17x17 (206) con: 8, var: 9

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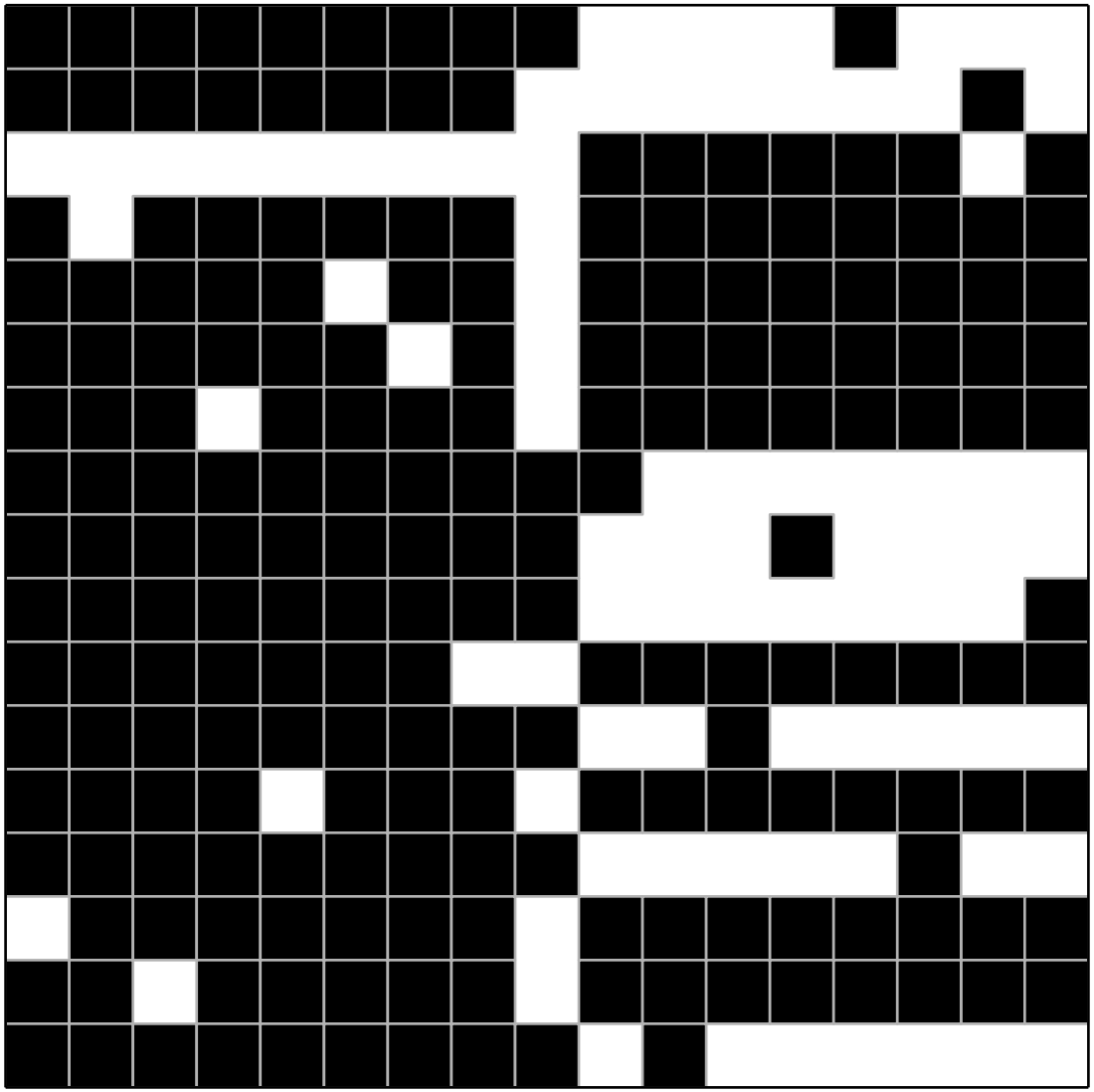
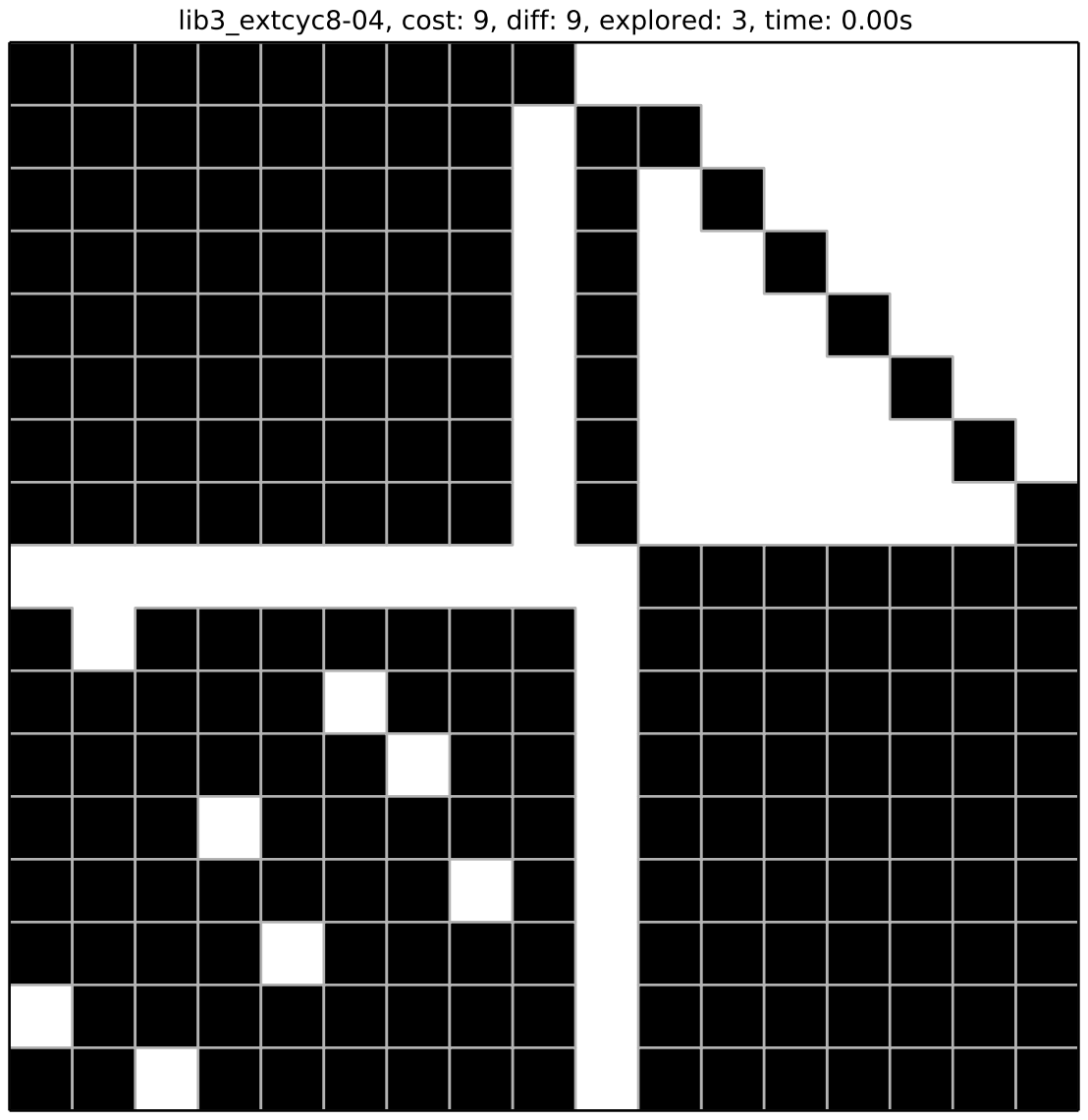
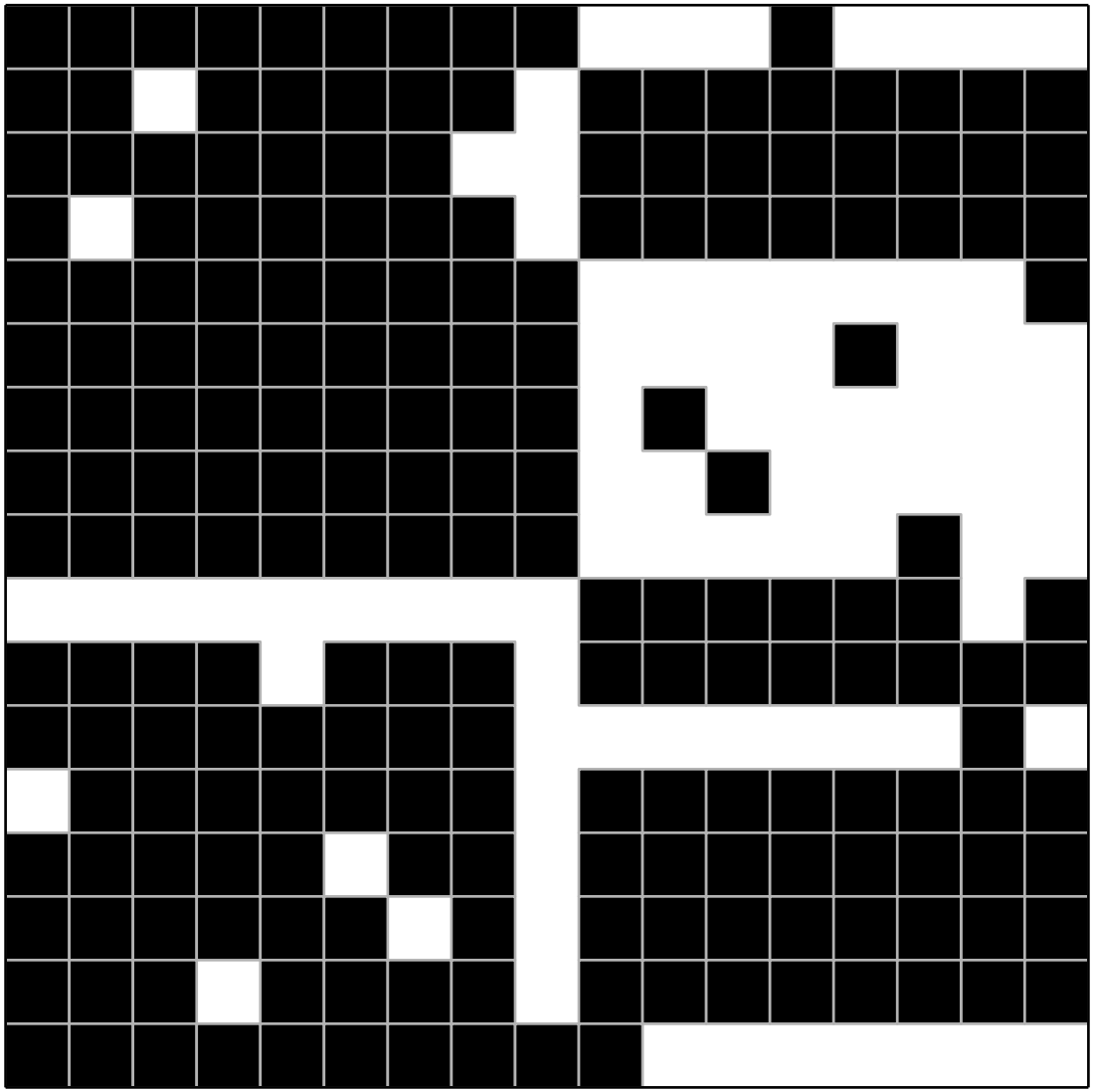
lib3_extcyc8-04 17x17 (206) con: 8, var: 9

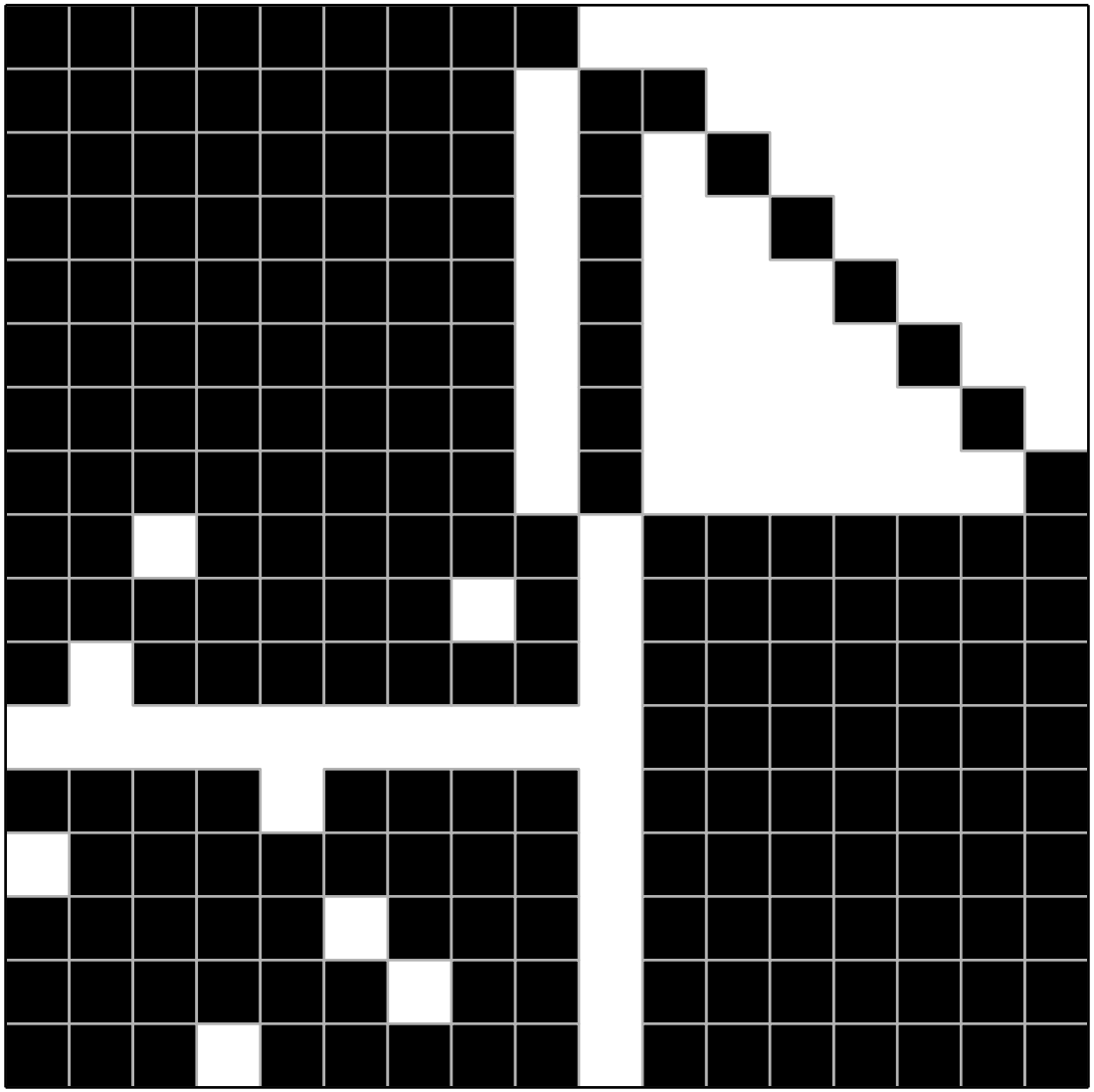



lib3_extcyc8-04, cost: 9, diff: 9, explored: 3, time: 0.00s

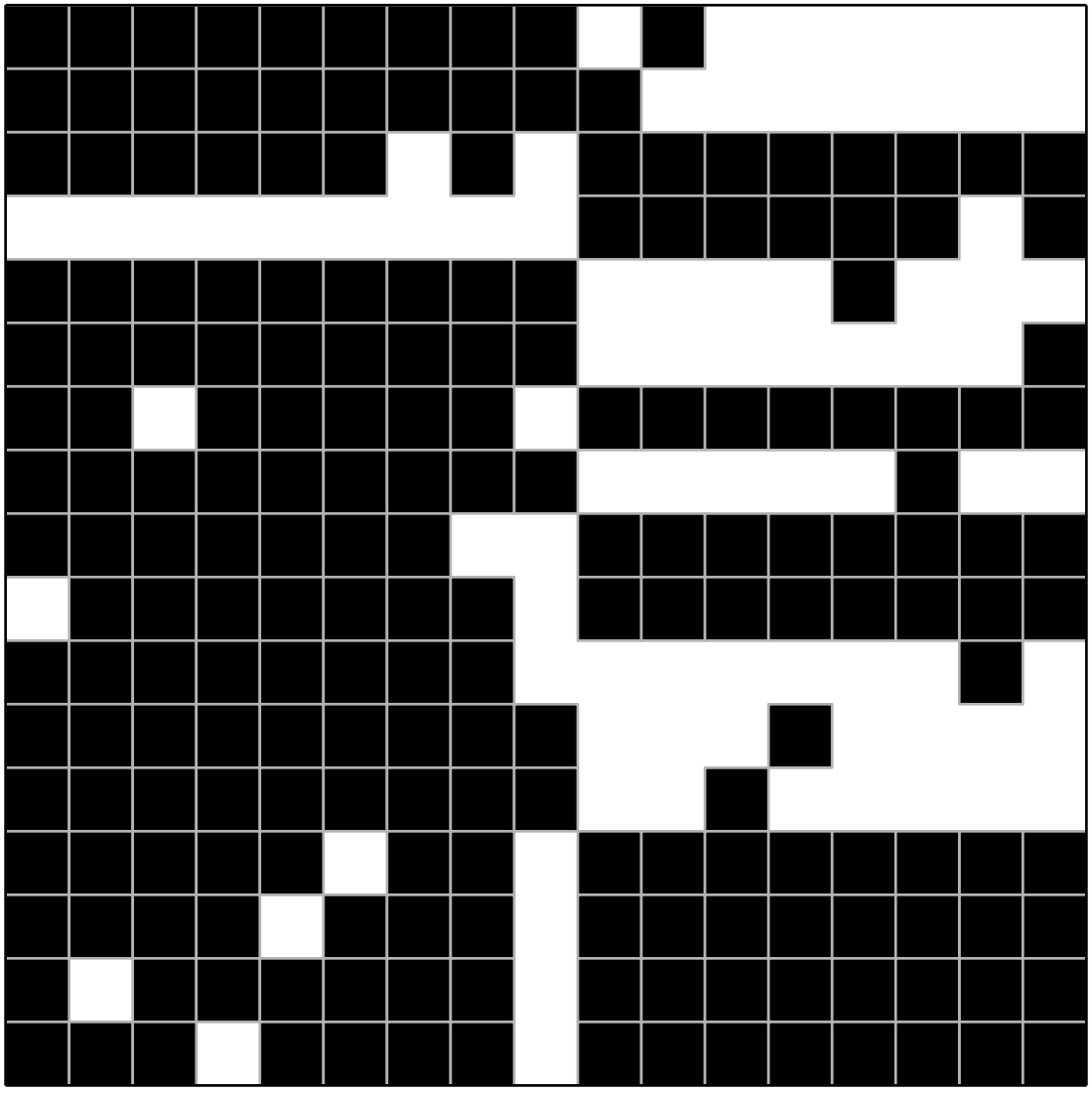
lib3_extcyc8-05 17x17 (206) con: 8, var: 9

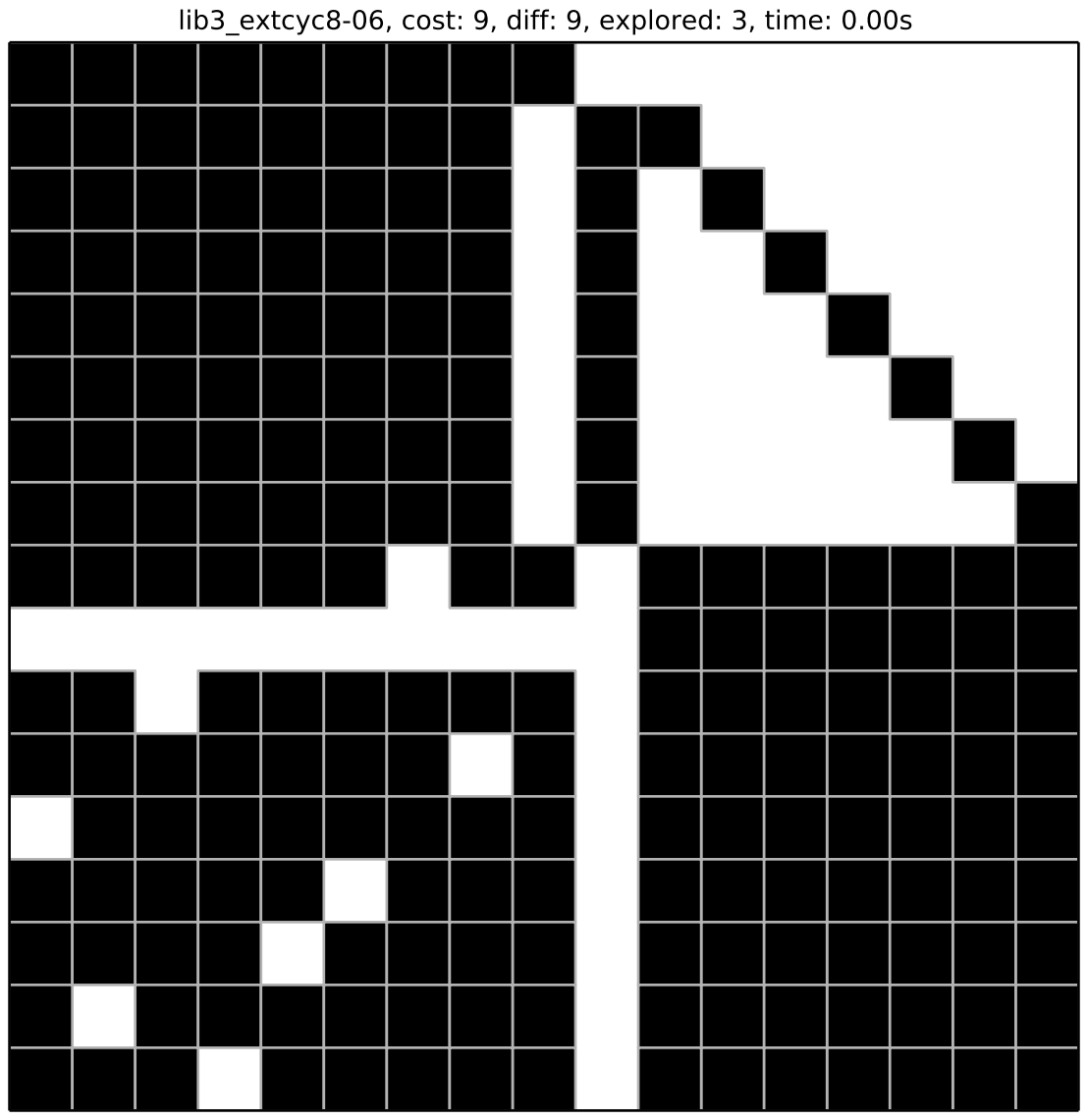


lib3_extcyc8-05, cost: 9, diff: 9, explored: 3, time: 0.00s

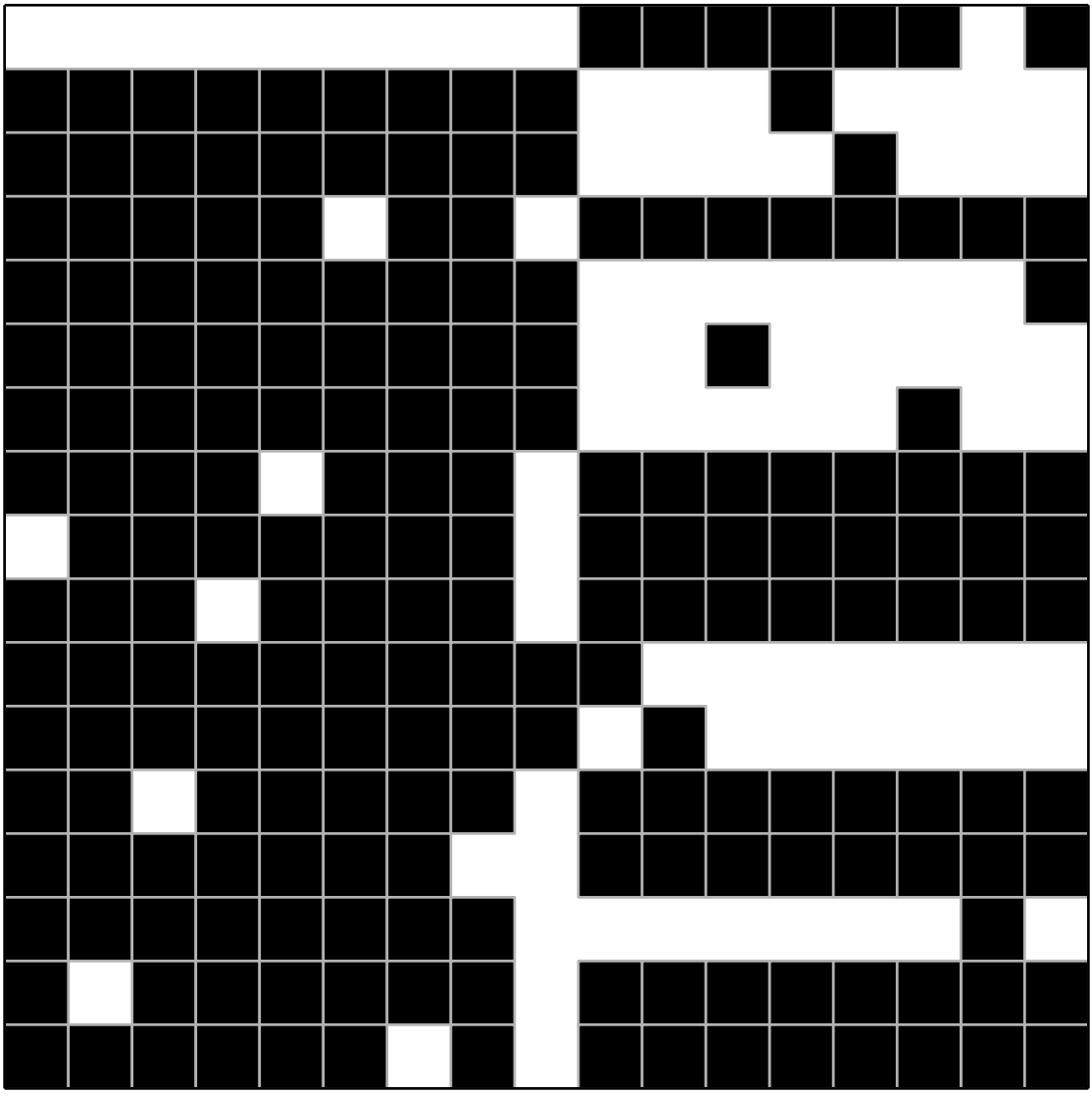


lib3_extcyc8-06 17x17 (206) con: 8, var: 9

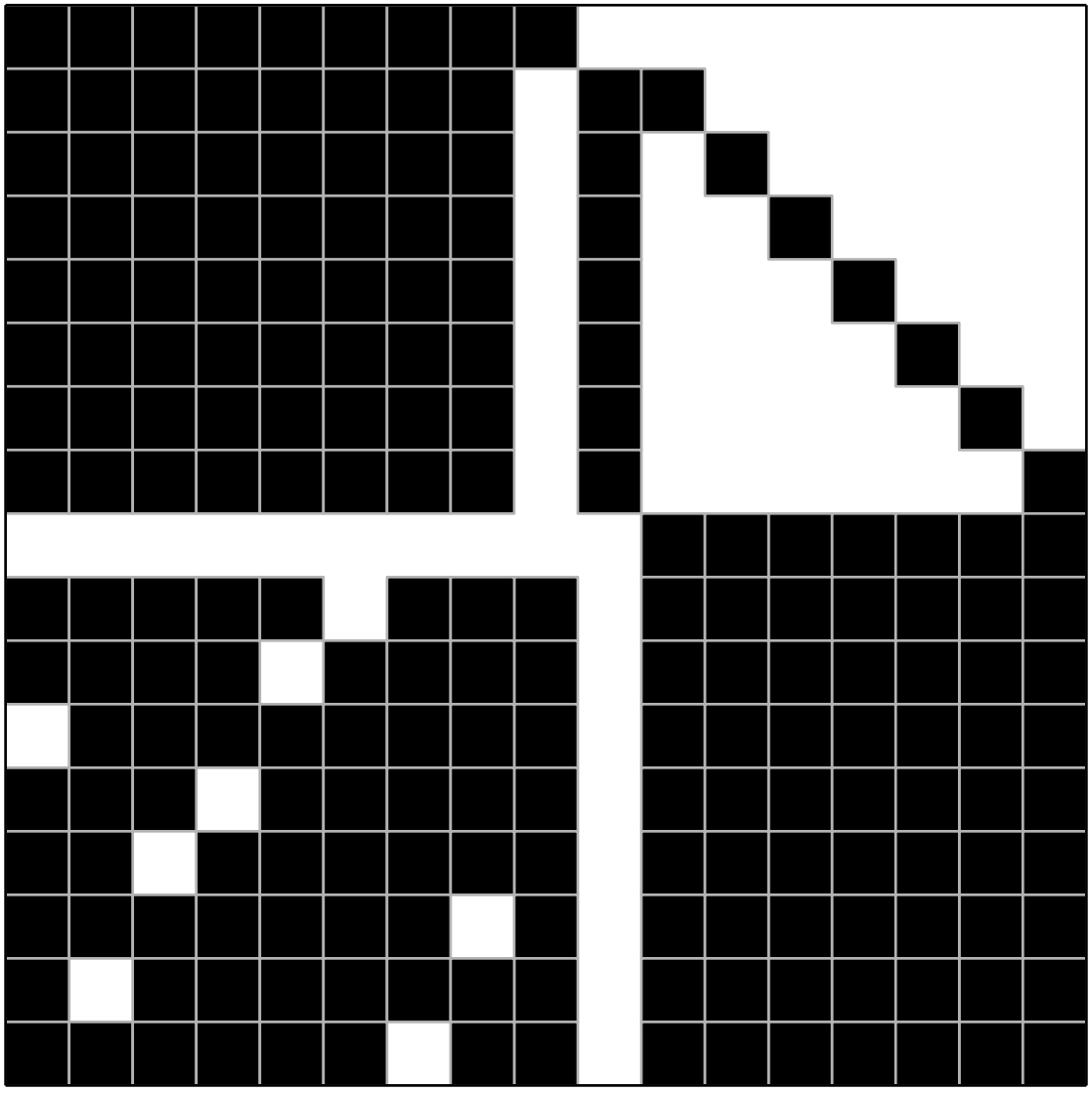



lib3_extcyc8-06, cost: 9, diff: 9, explored: 3, time: 0.00s

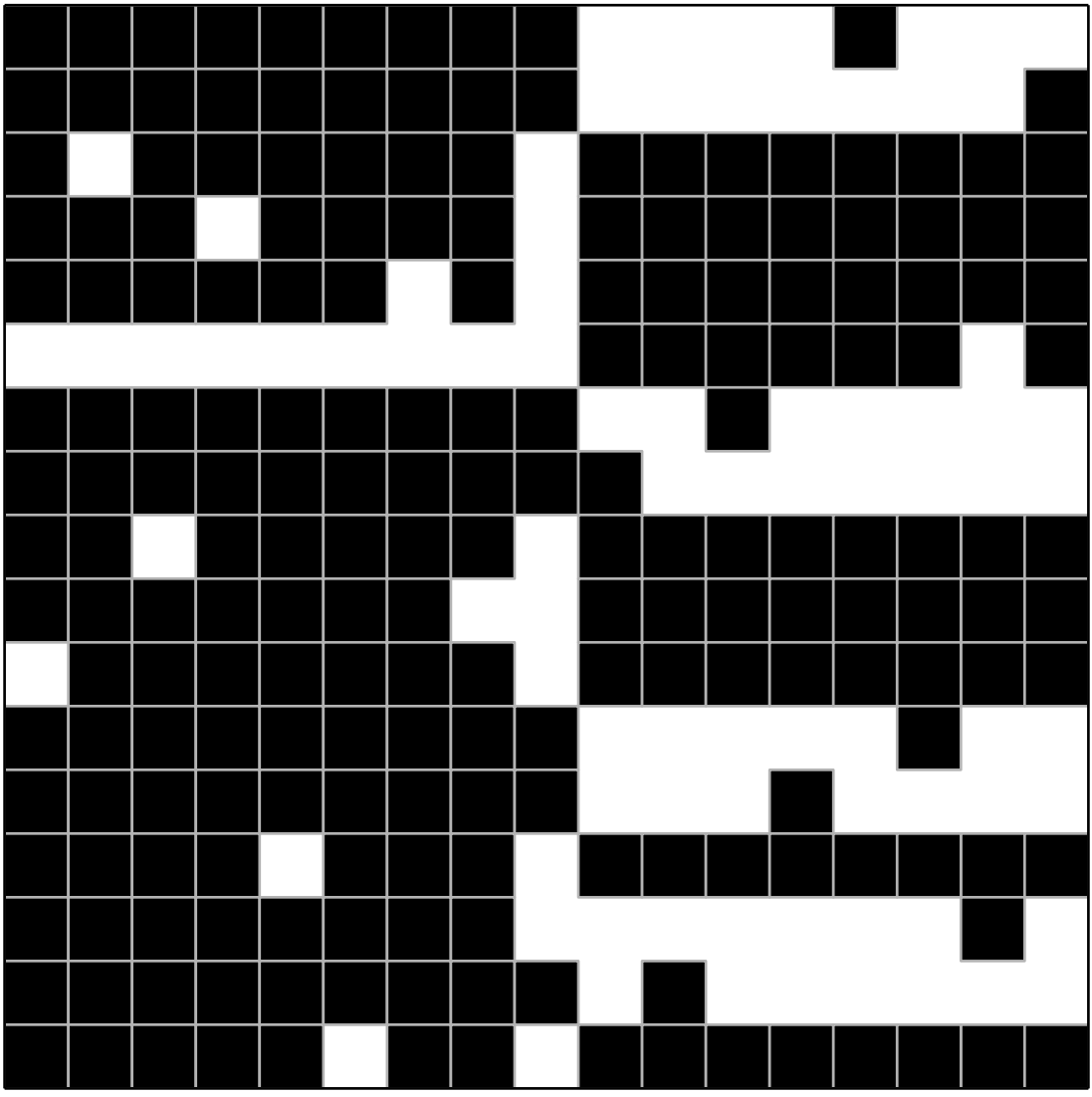
lib3_extcyc8-07 17x17 (206) con: 8, var: 9



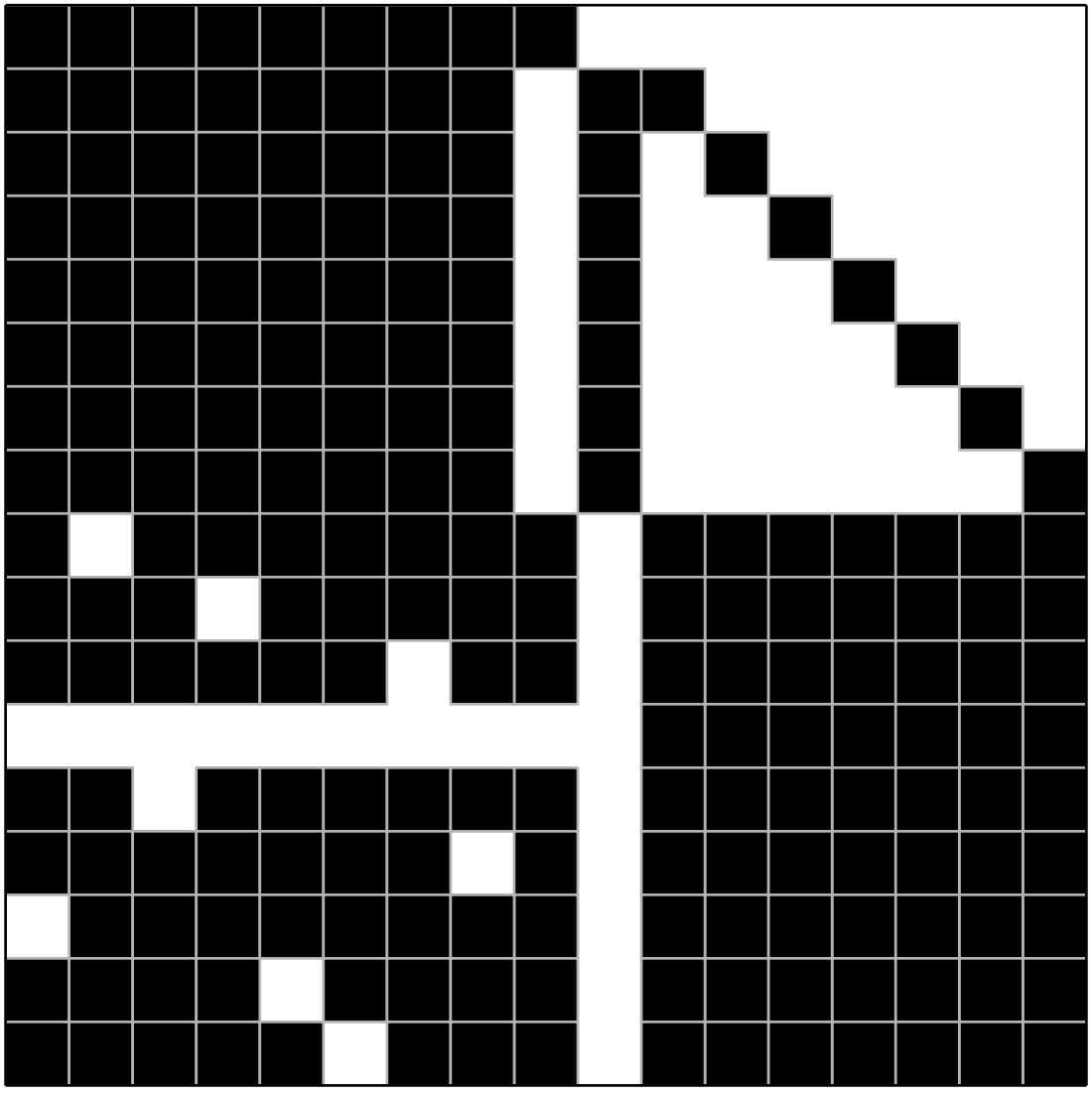
lib3_extcyc8-07, cost: 9, diff: 9, explored: 3, time: 0.00s



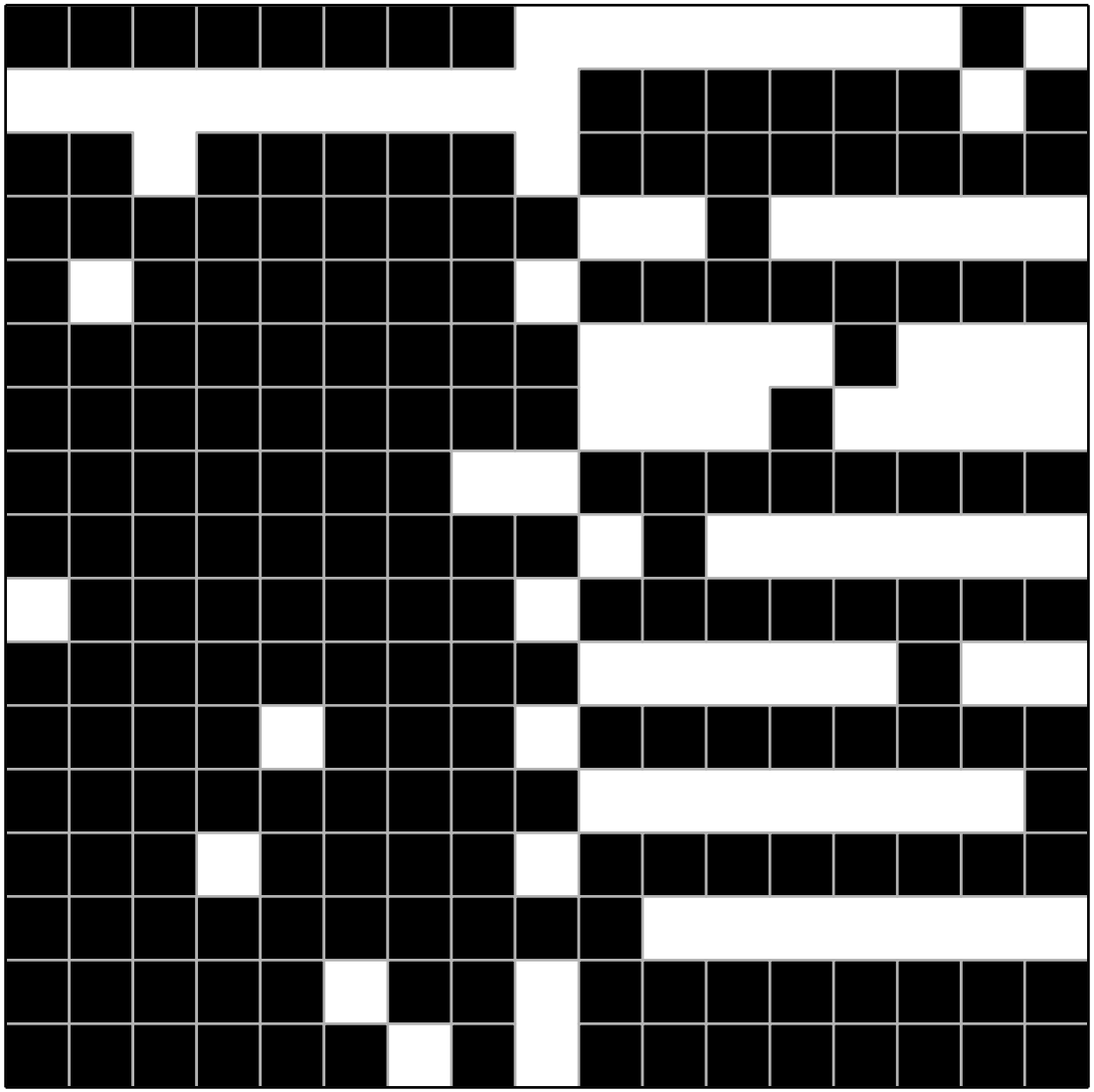
lib3_extcyc8-08 17x17 (206) con: 8, var: 9



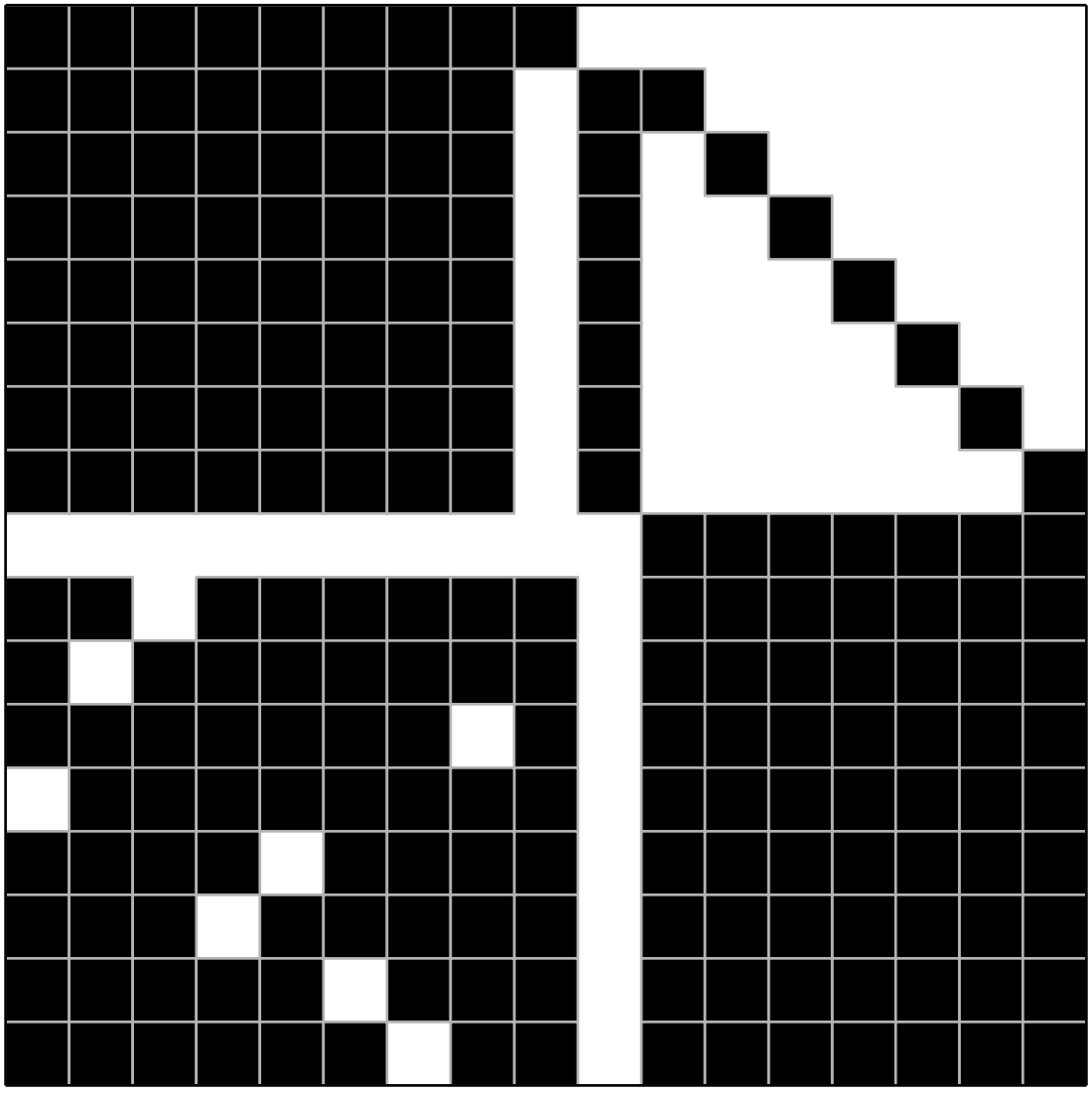
lib3_extcyc8-08, cost: 9, diff: 9, explored: 3, time: 0.00s



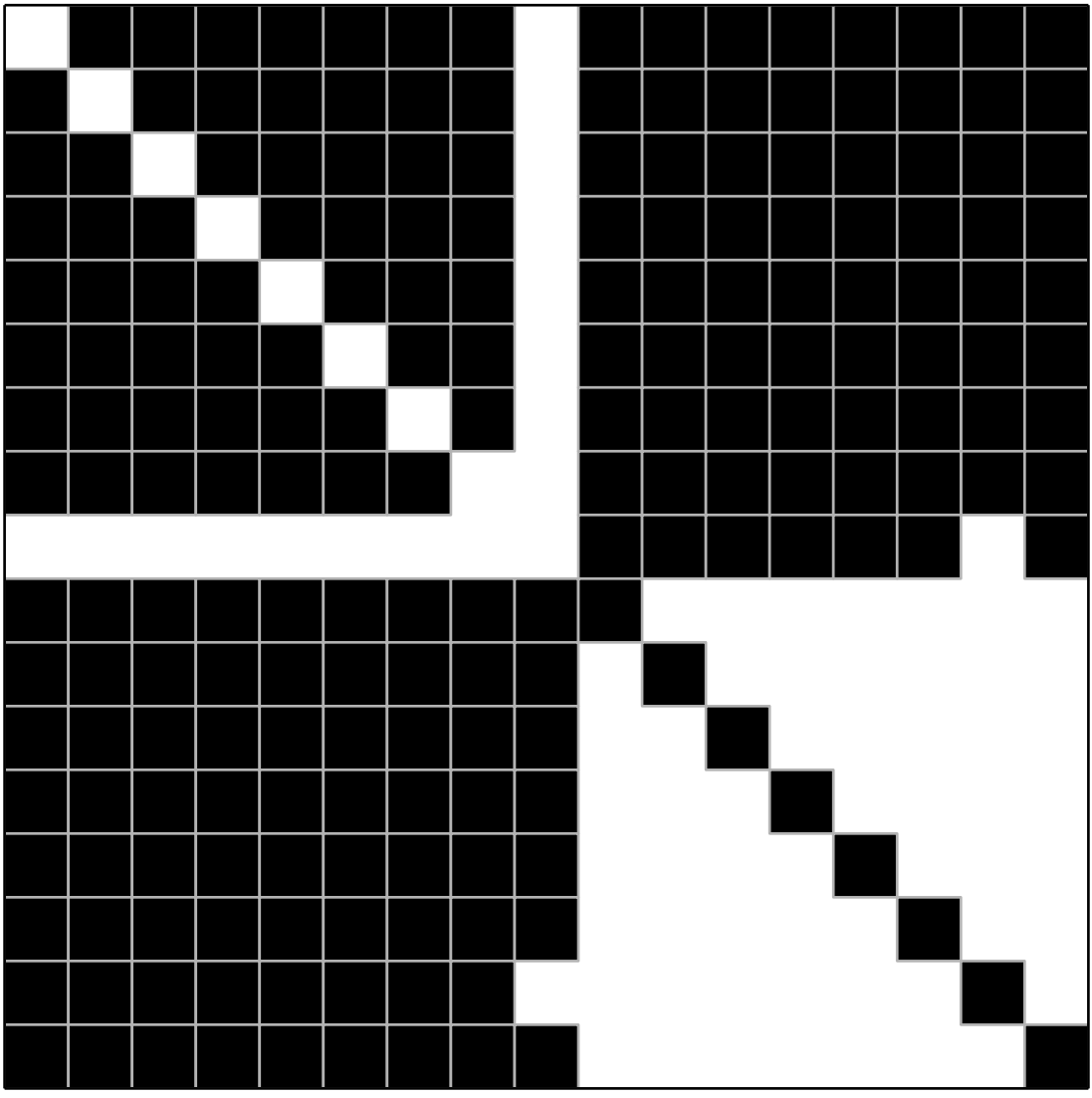
lib3_extcyc8-09 17x17 (206) con: 8, var: 9



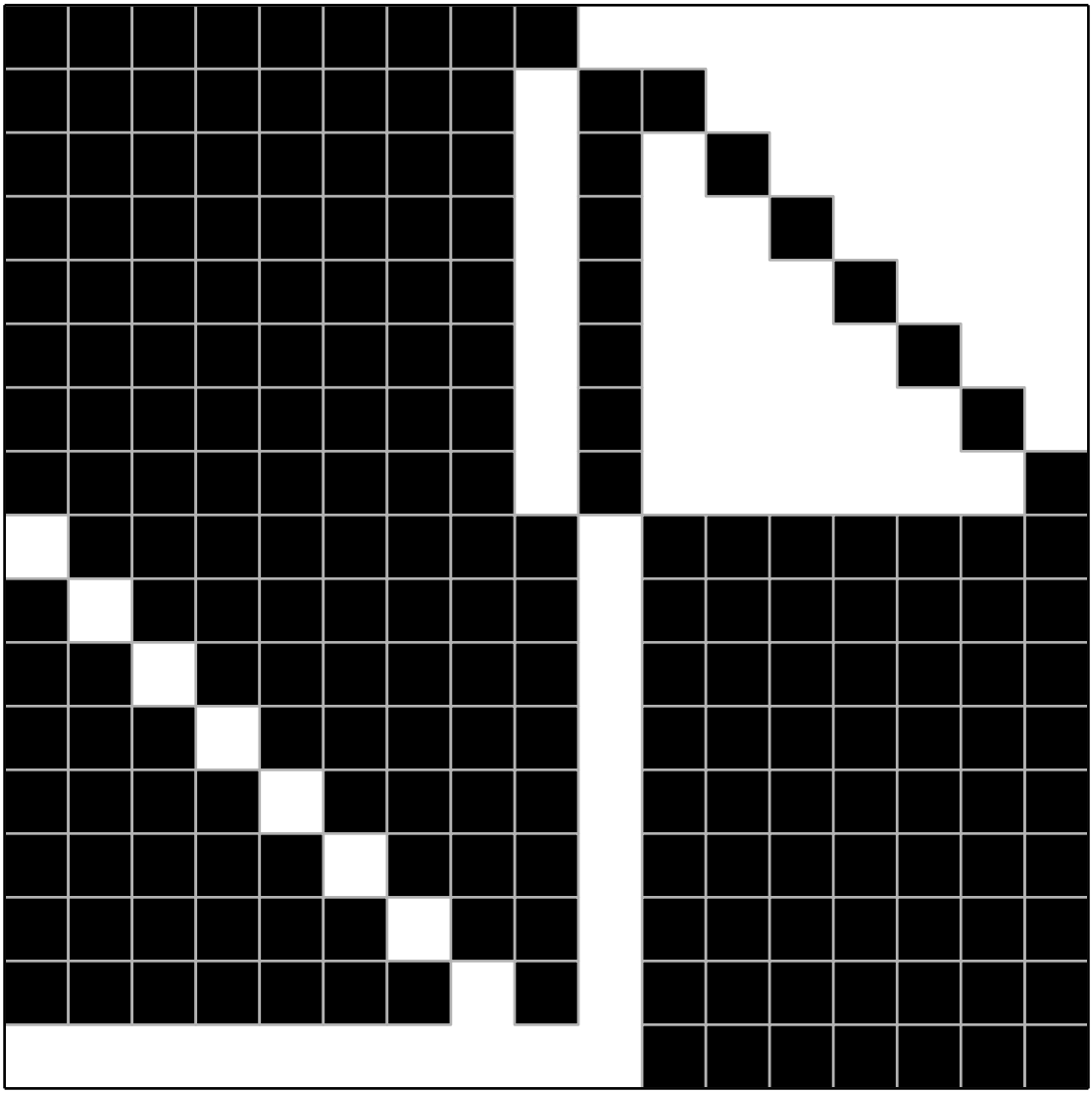
lib3_extcyc8-09, cost: 9, diff: 9, explored: 3, time: 0.00s



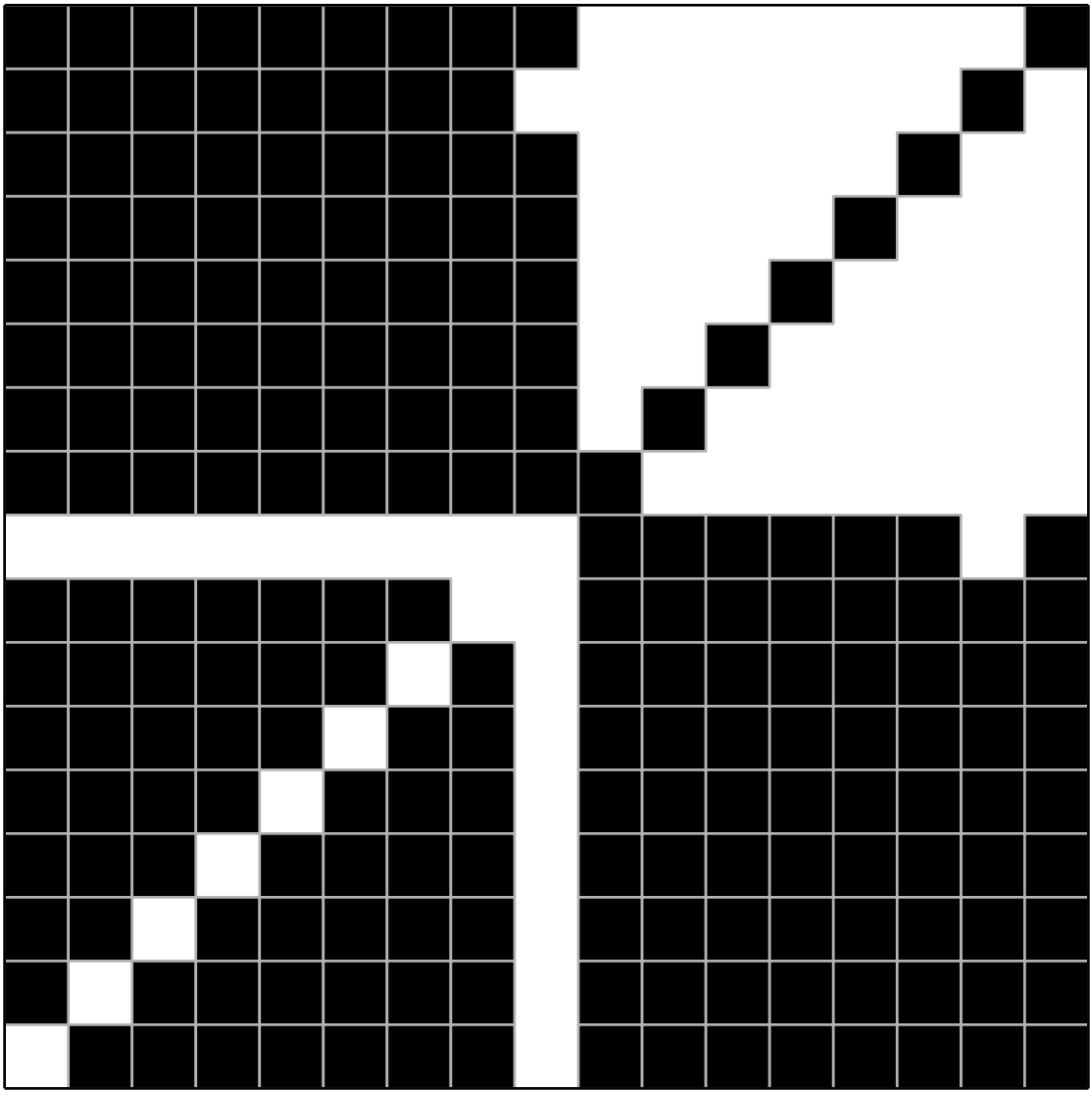
lib3_extcyc8-IN 17x17 (206) con: 8, var: 9



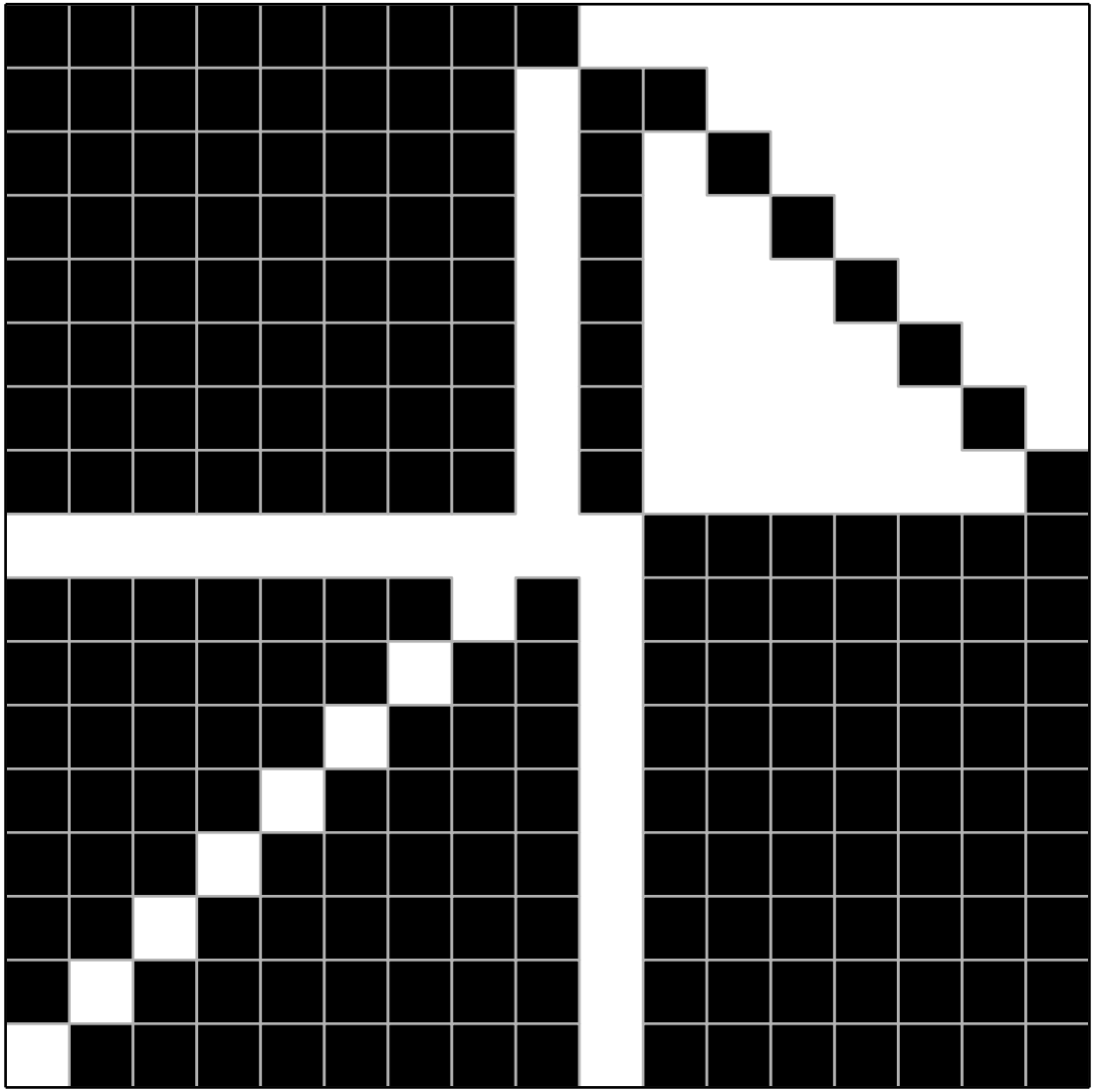
lib3_extcyc8-IN, cost: 9, diff: 9, explored: 3, time: 0.00s

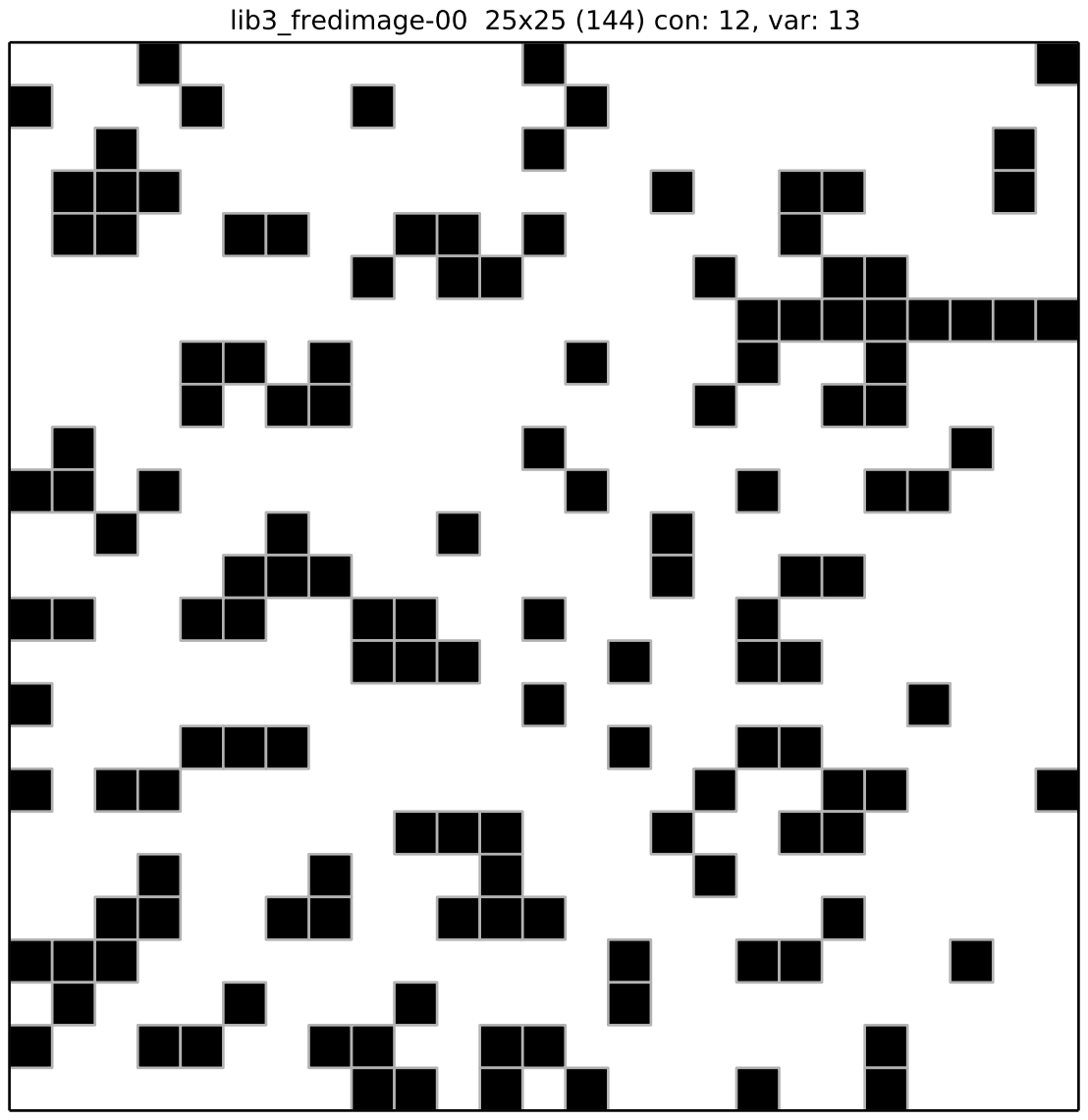


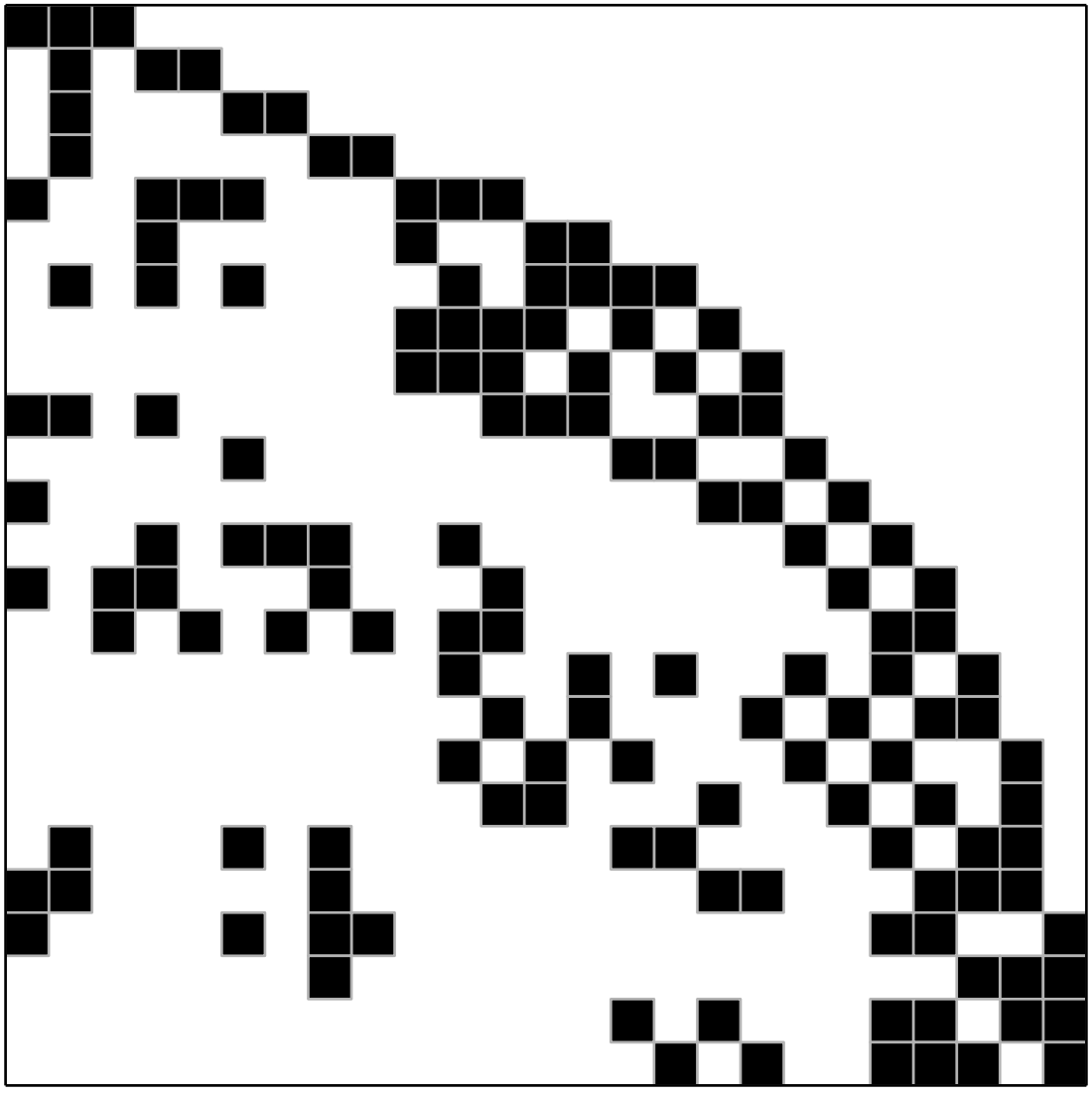
lib3_extcyc8-RE 17x17 (206) con: 8, var: 9



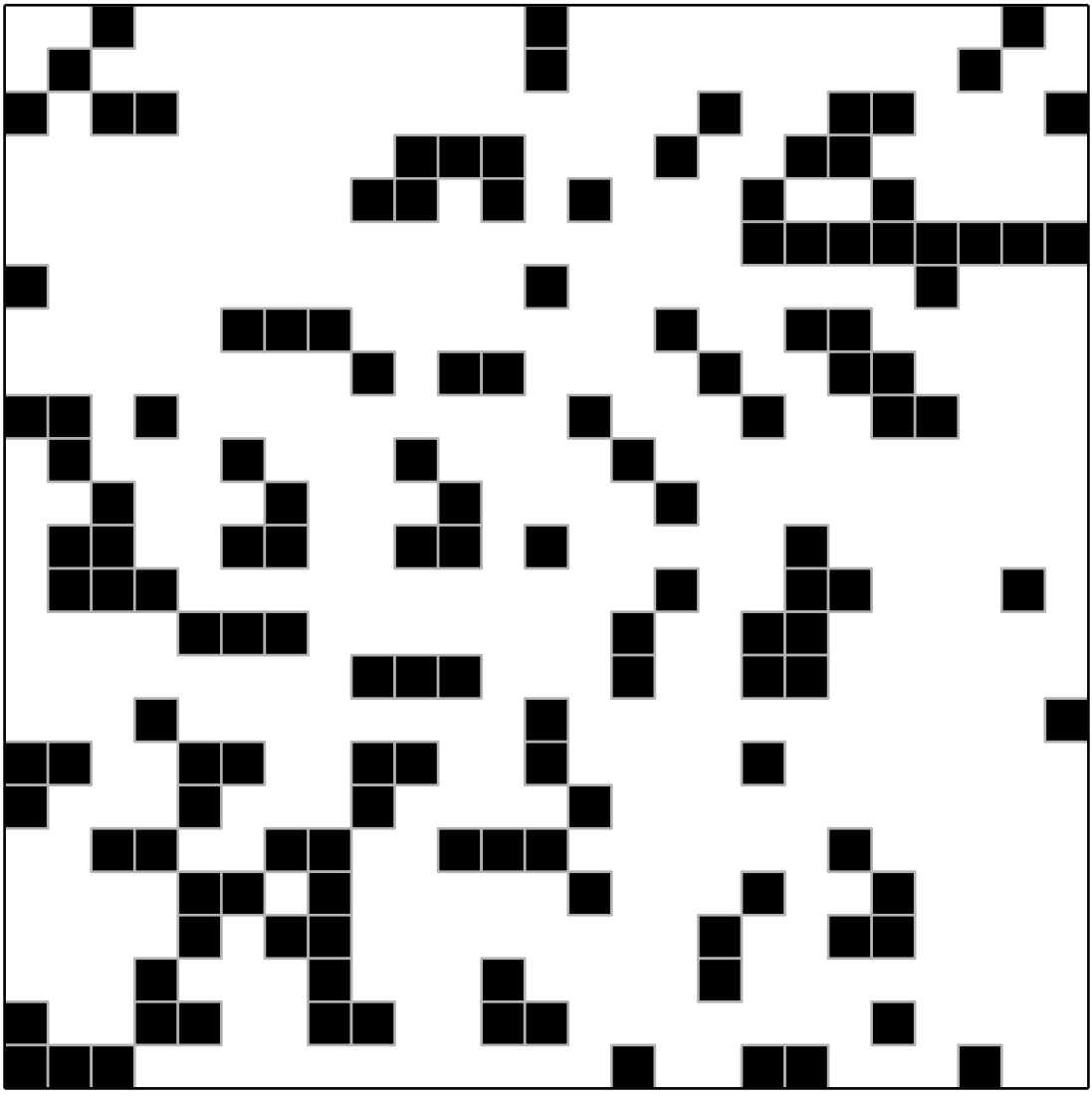
lib3_extcyc8-RE, cost: 9, diff: 9, explored: 3, time: 0.00s

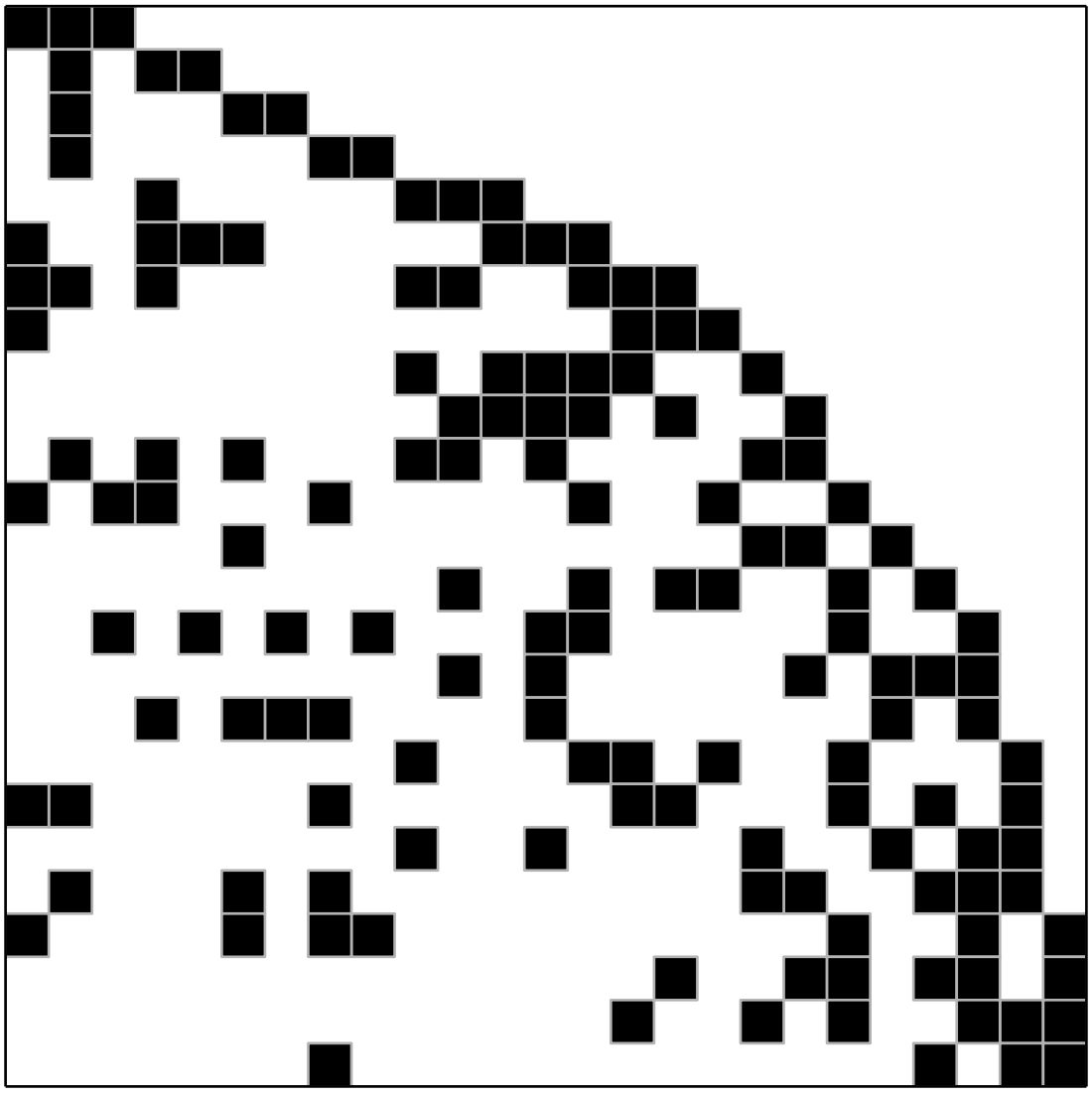


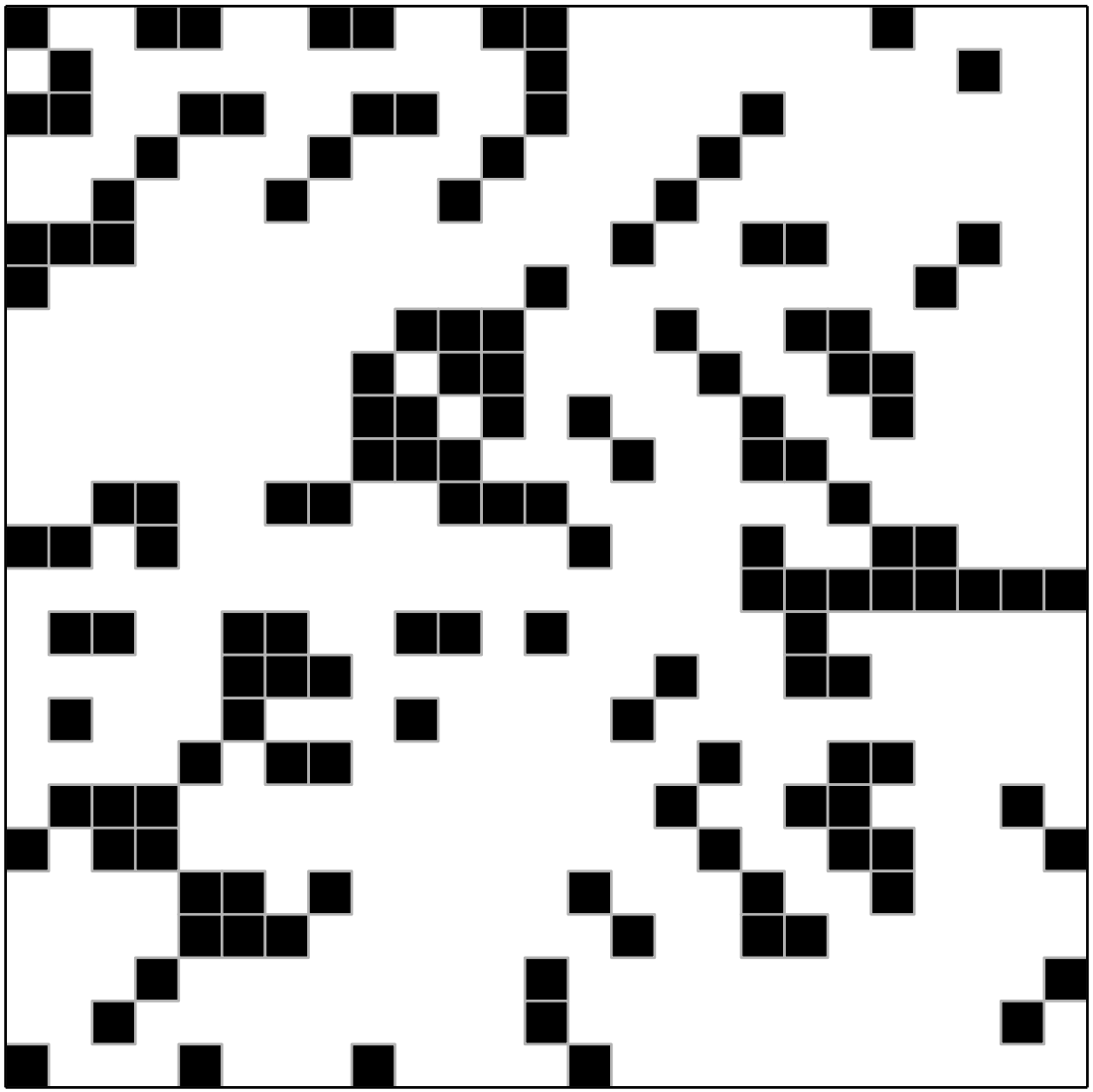

lib3_fredimage-00 25x25 (144) con: 12, var: 13

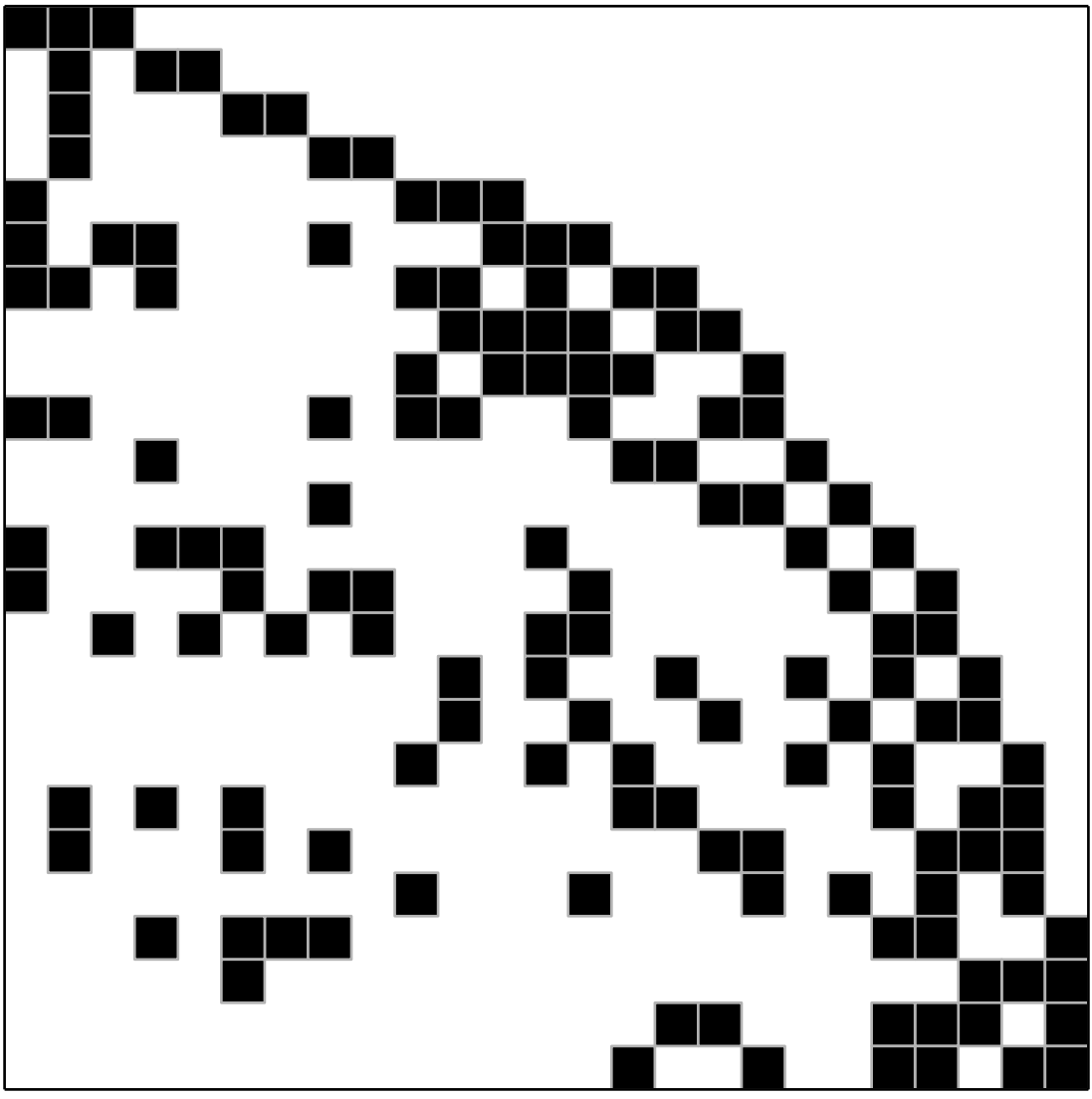

lib3_fredimage-00, cost: 9, diff: 9, explored: 787, time: 0.22s

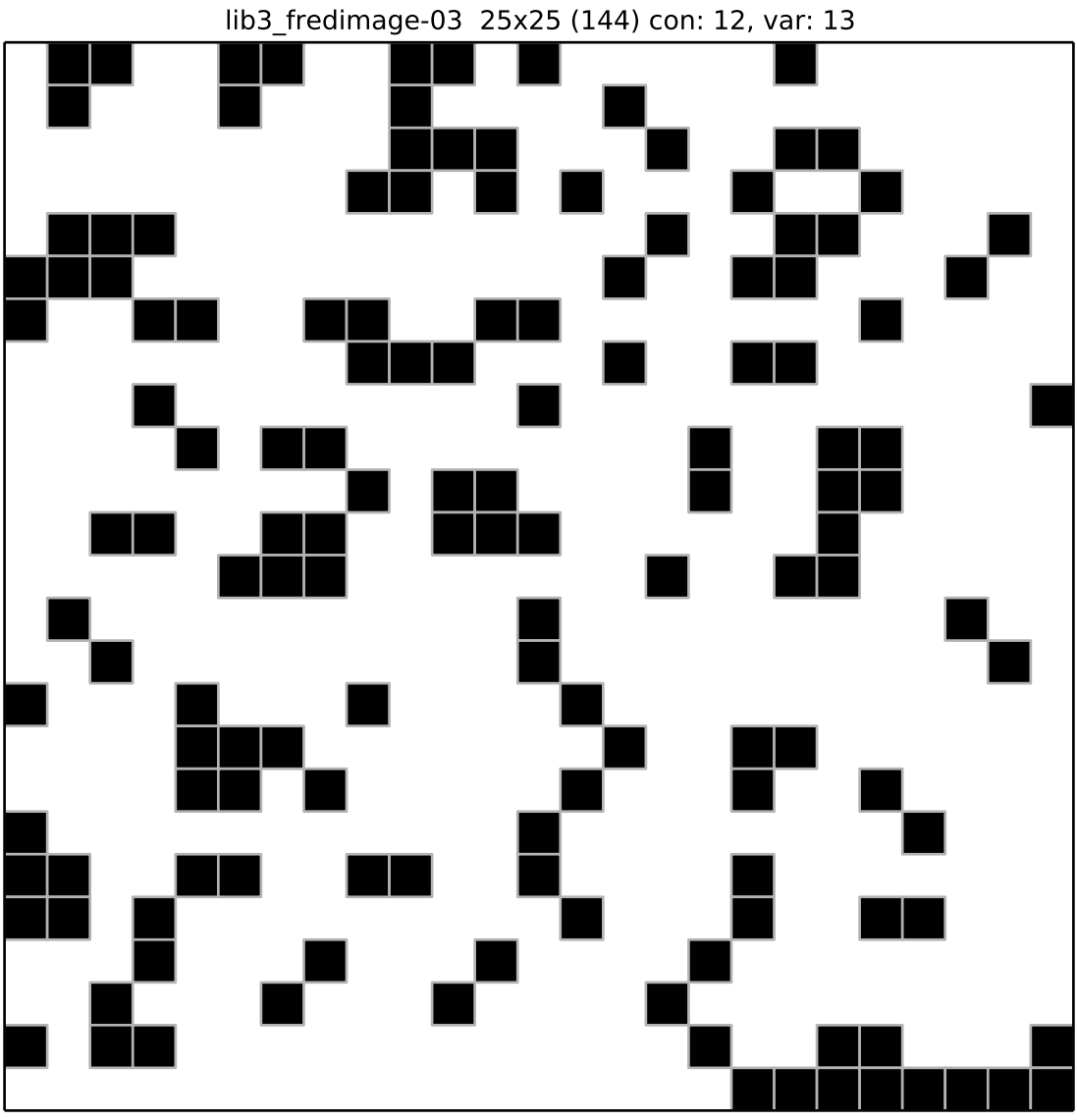
lib3_fredimage-01 25x25 (144) con: 12, var: 13

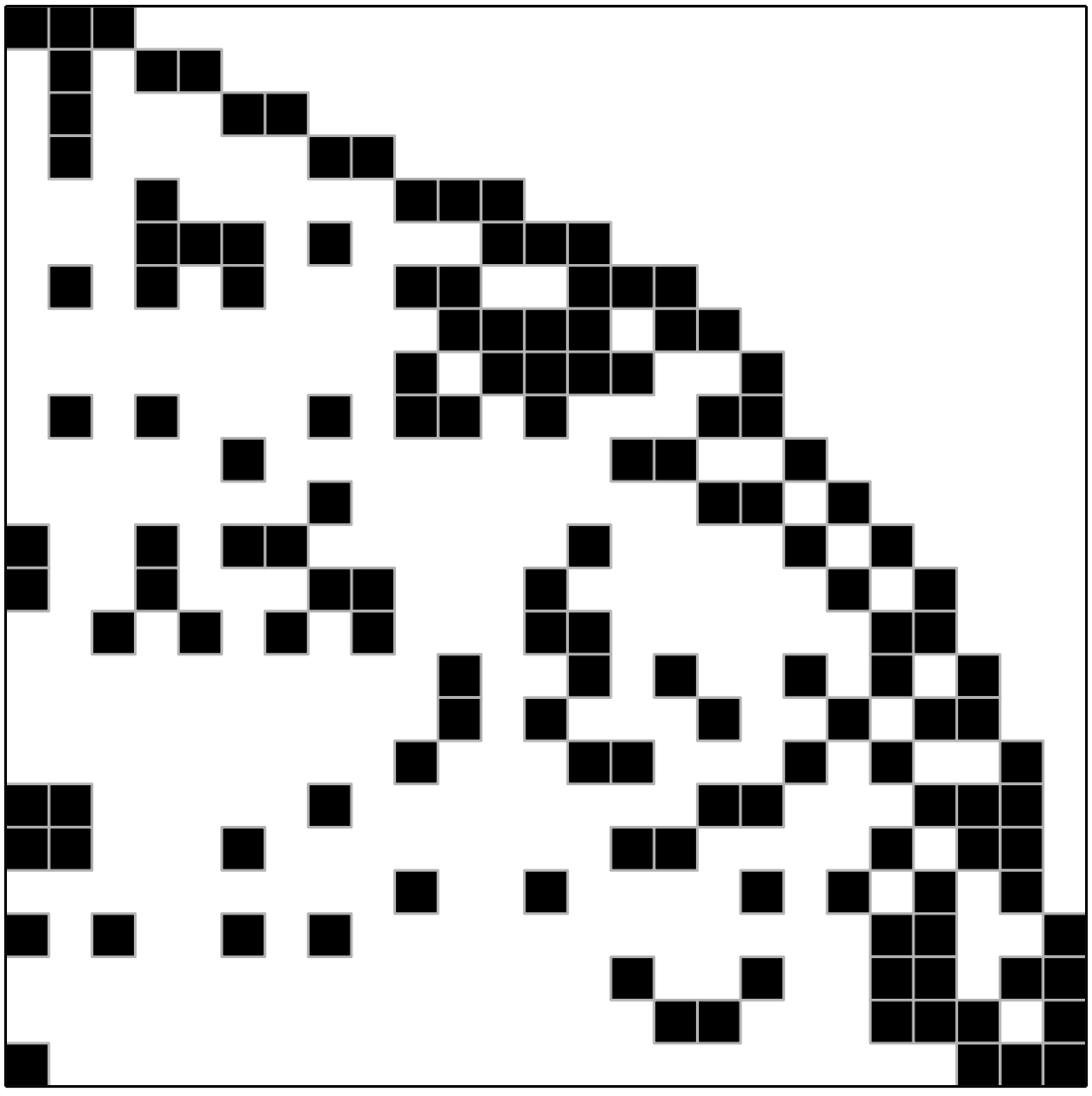


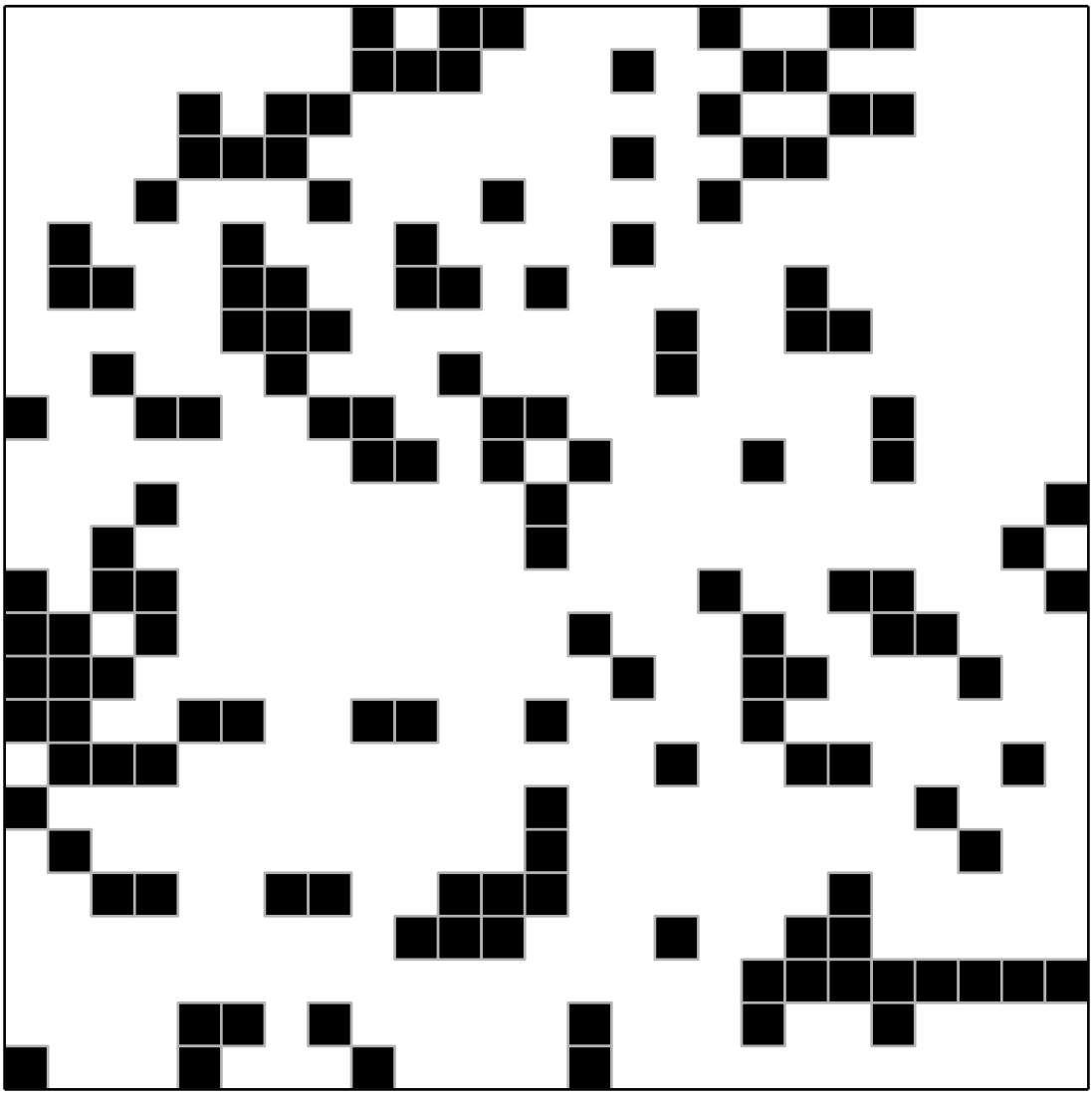

lib3_fredimage-01, cost: 9, diff: 9, explored: 779, time: 0.21s


lib3_fredimage-02 25x25 (144) con: 12, var: 13

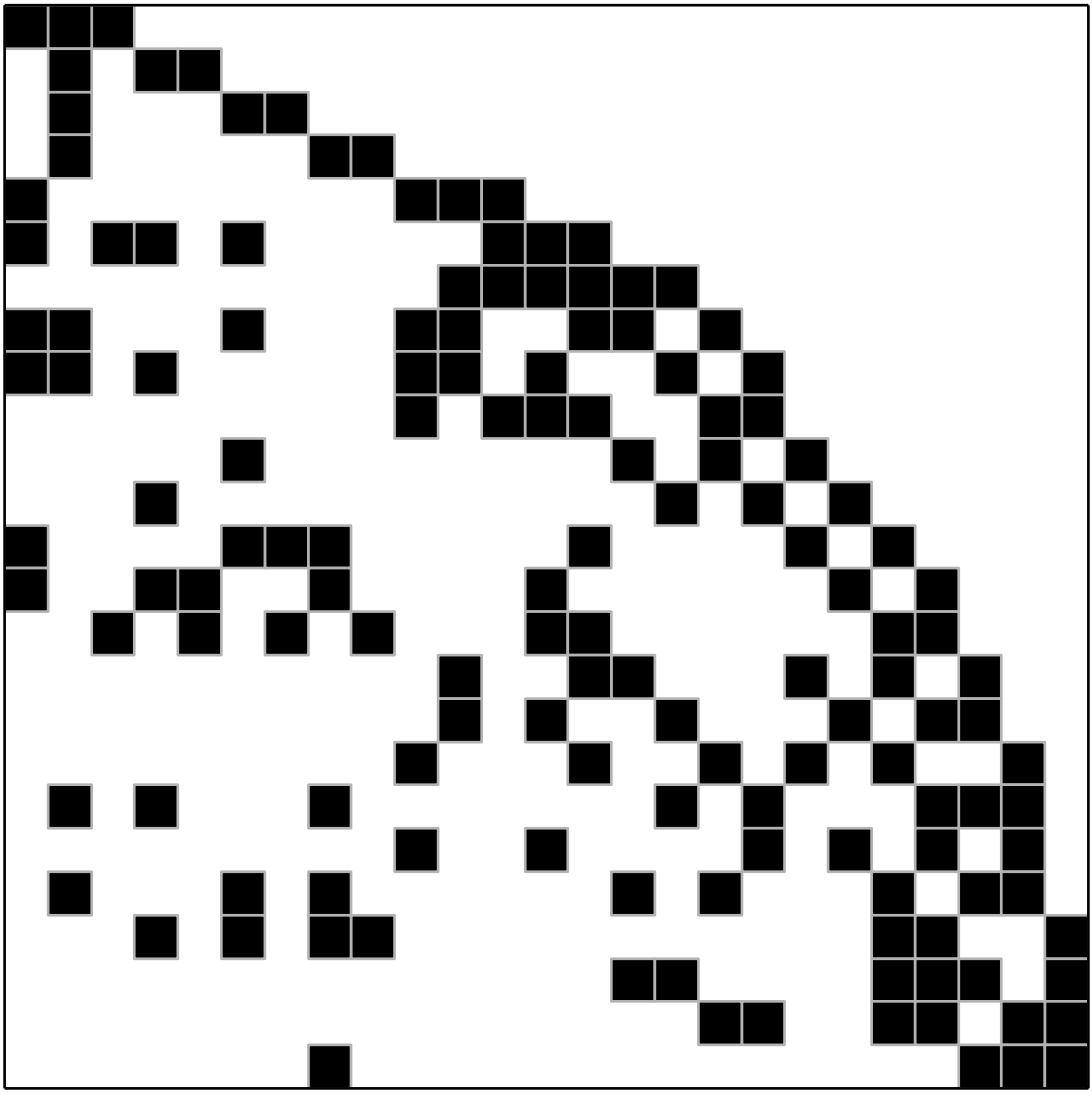

lib3_fredimage-02, cost: 9, diff: 9, explored: 780, time: 0.21s


lib3_fredimage-03 25x25 (144) con: 12, var: 13

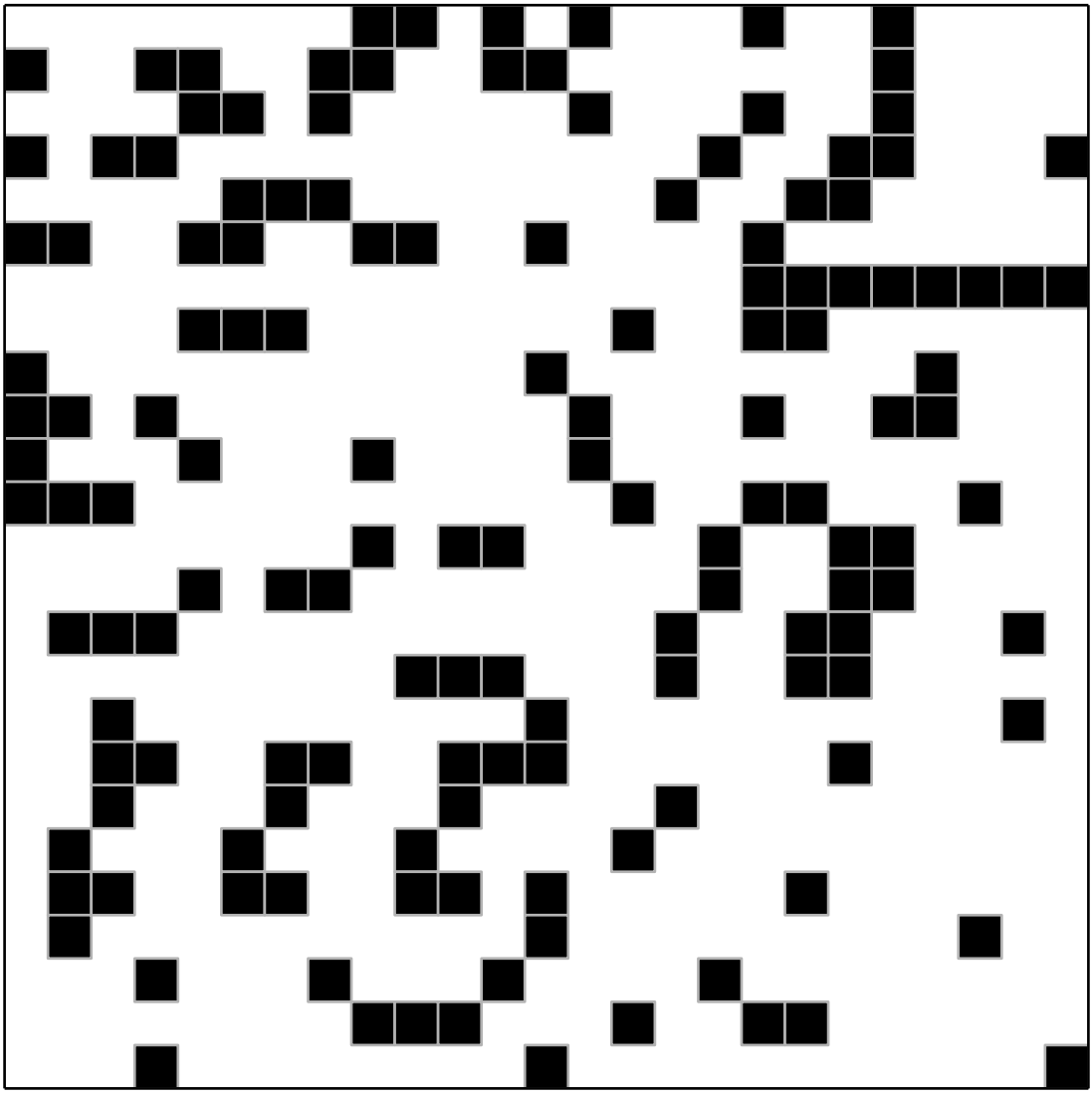

lib3_fredimage-03, cost: 9, diff: 9, explored: 778, time: 0.21s


lib3_fredimage-04 25x25 (144) con: 12, var: 13

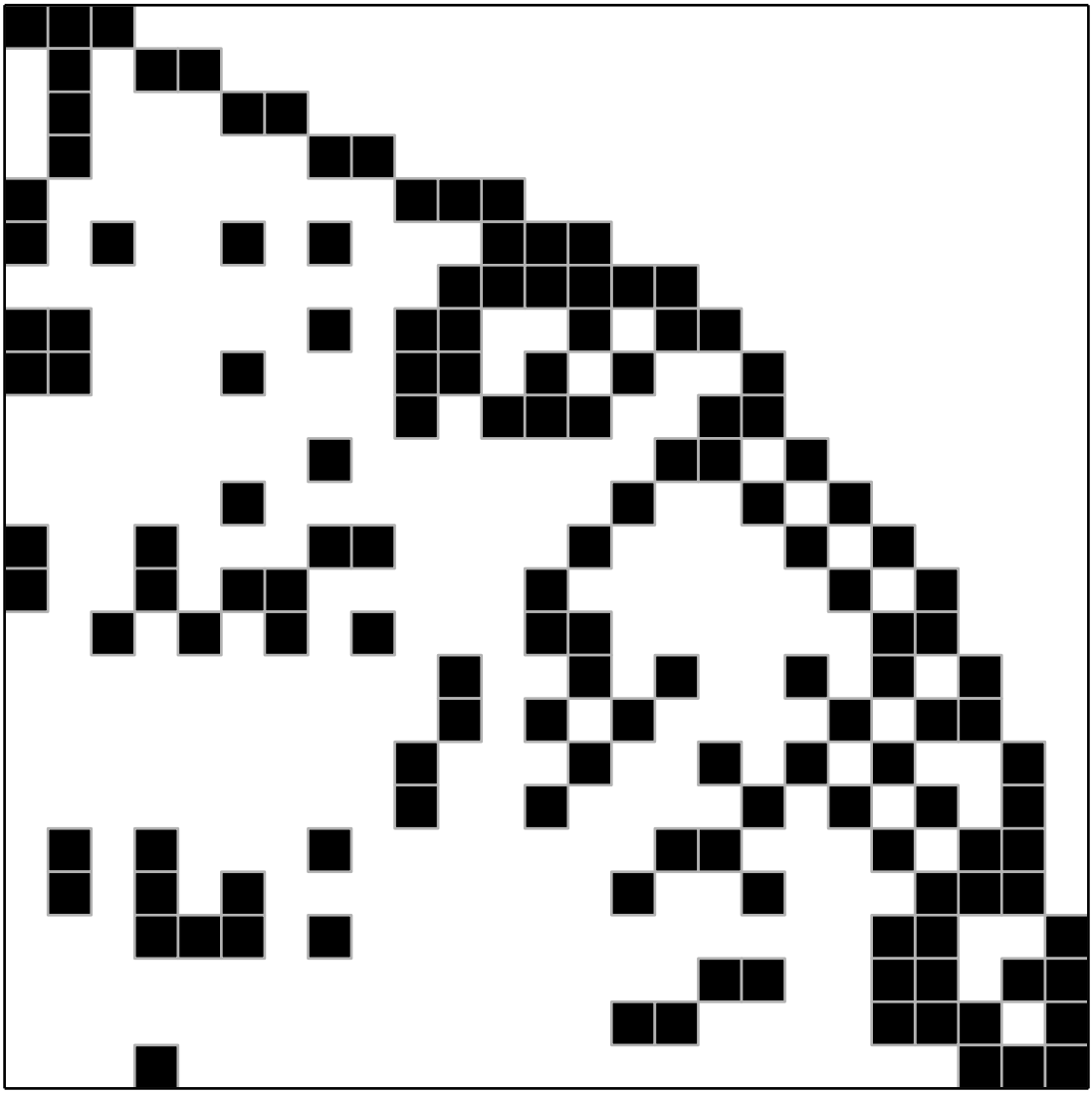
lib3_fredimage-04, cost: 9, diff: 9, explored: 781, time: 0.22s



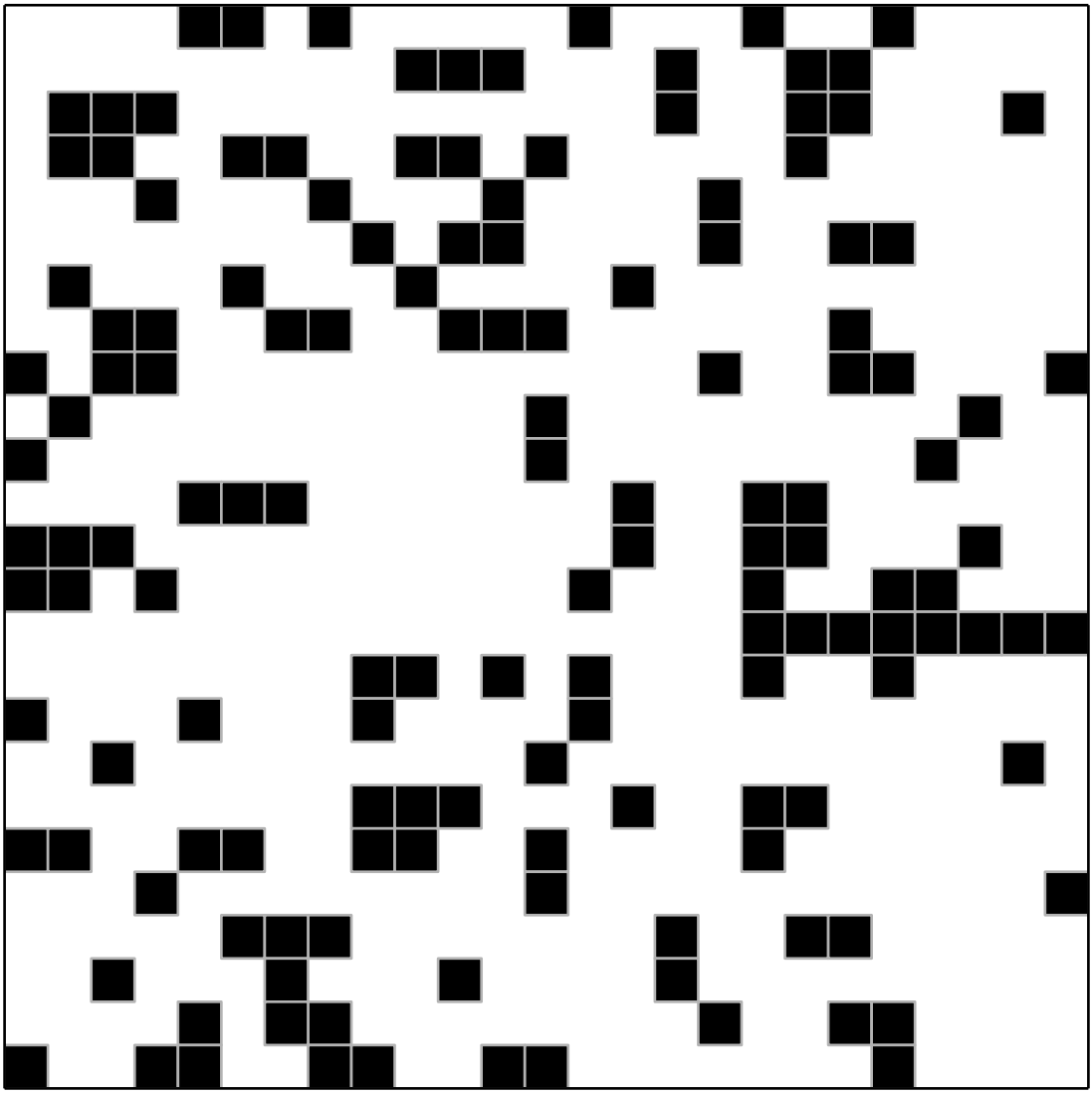
lib3_fredimage-05 25x25 (144) con: 12, var: 13

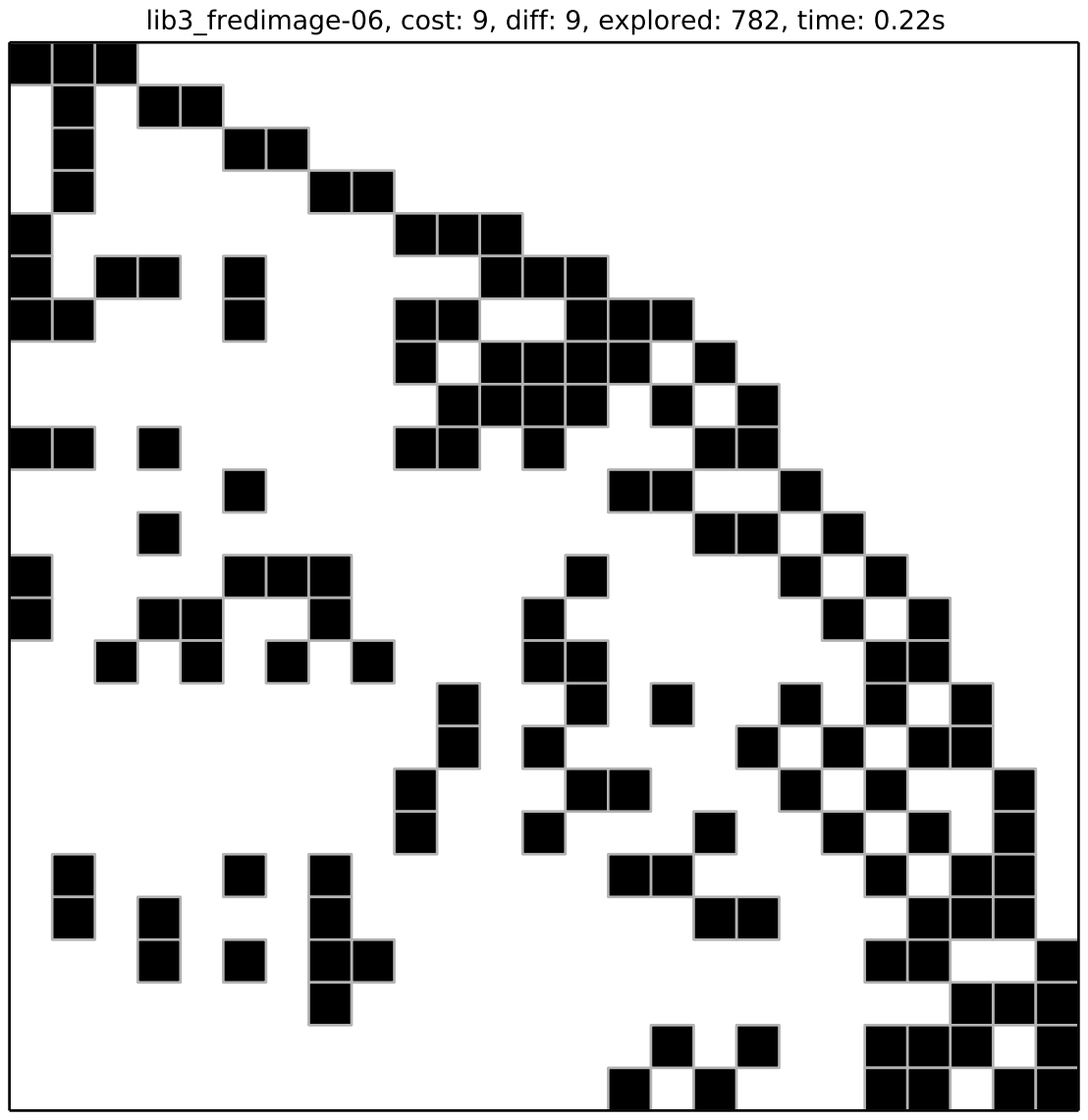


lib3_fredimage-05, cost: 9, diff: 9, explored: 780, time: 0.21s



lib3_fredimage-06 25x25 (144) con: 12, var: 13

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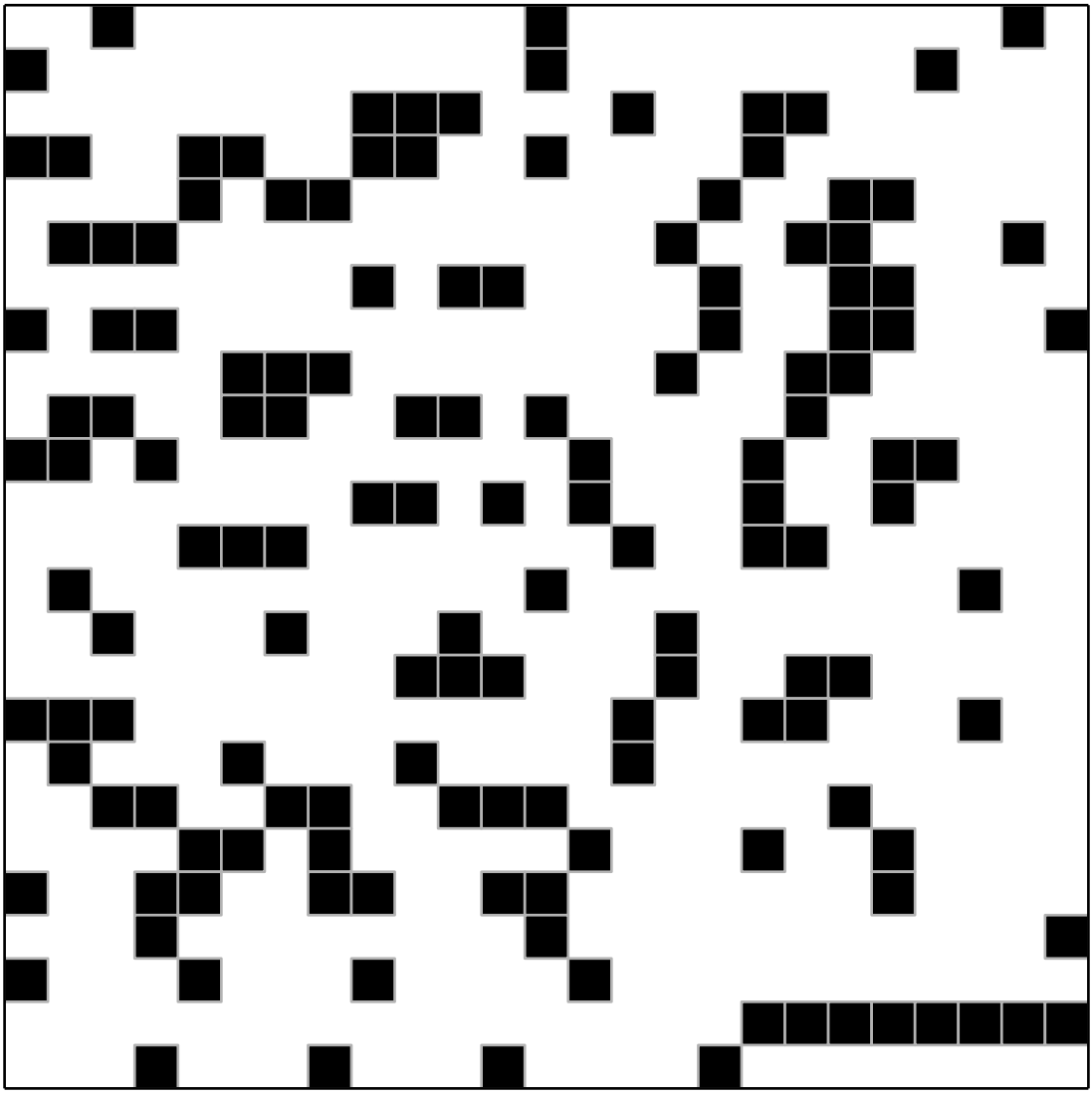
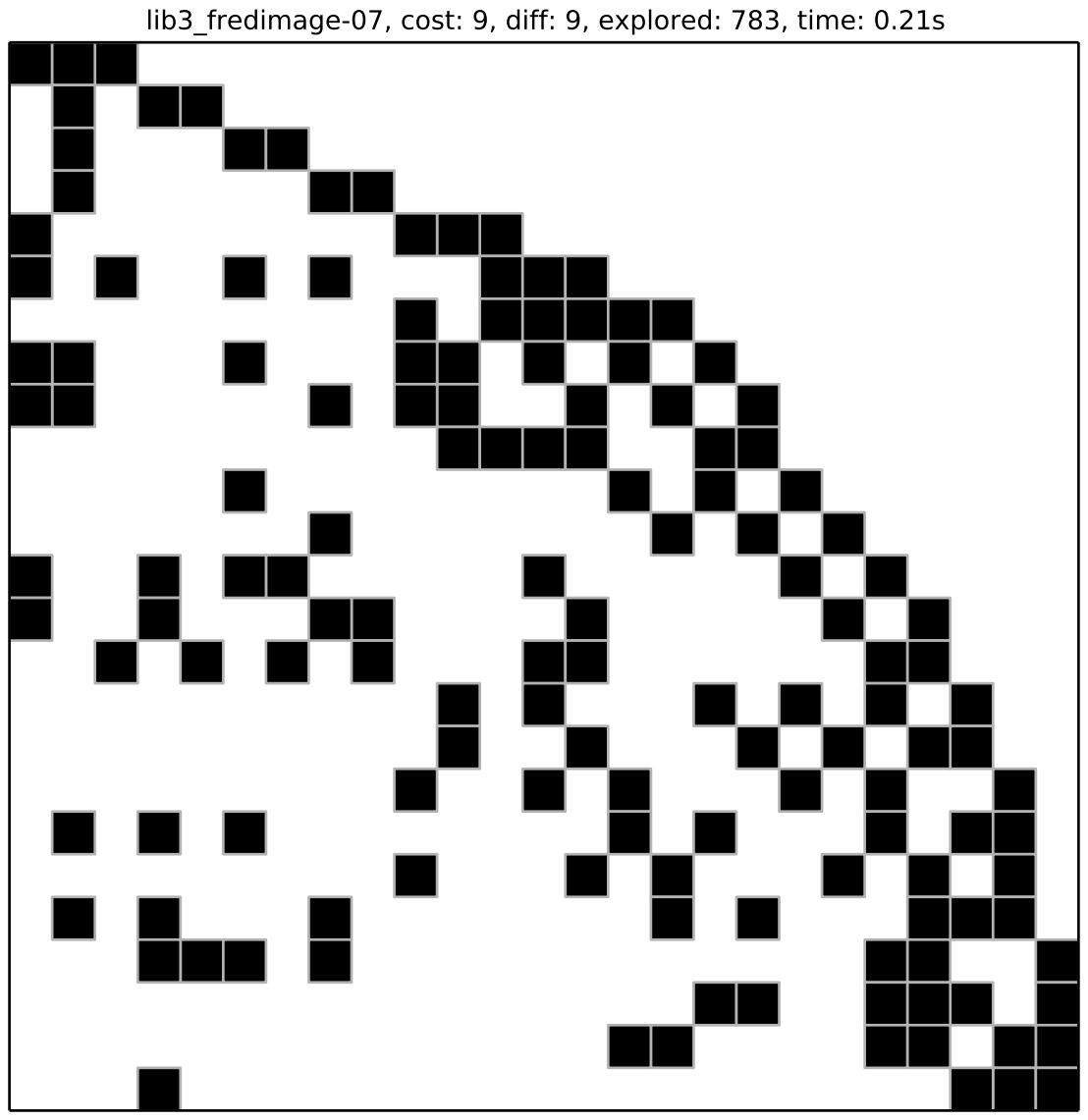
lib3_fredimage-07 25x25 (144) con: 12, var: 13

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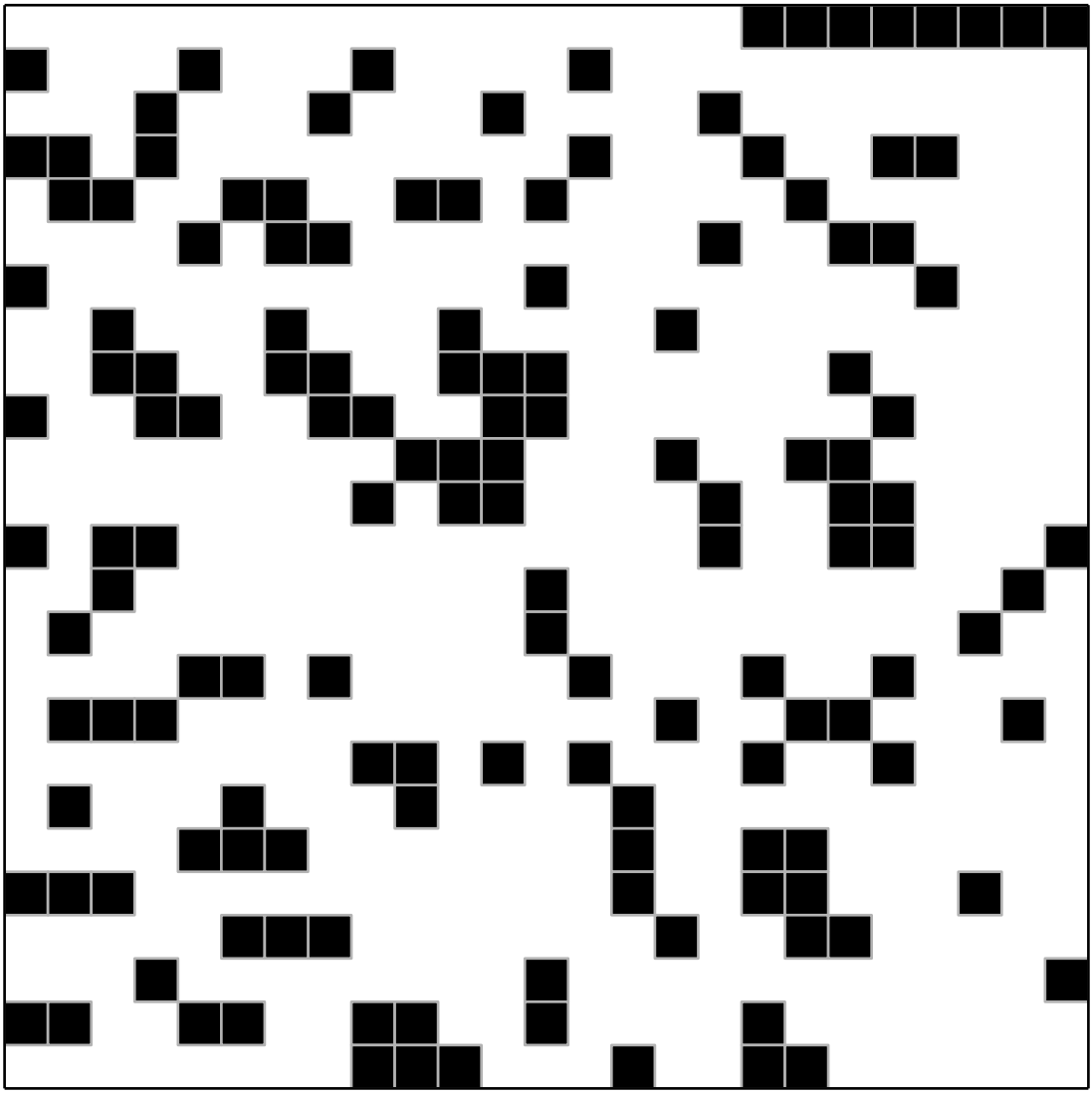
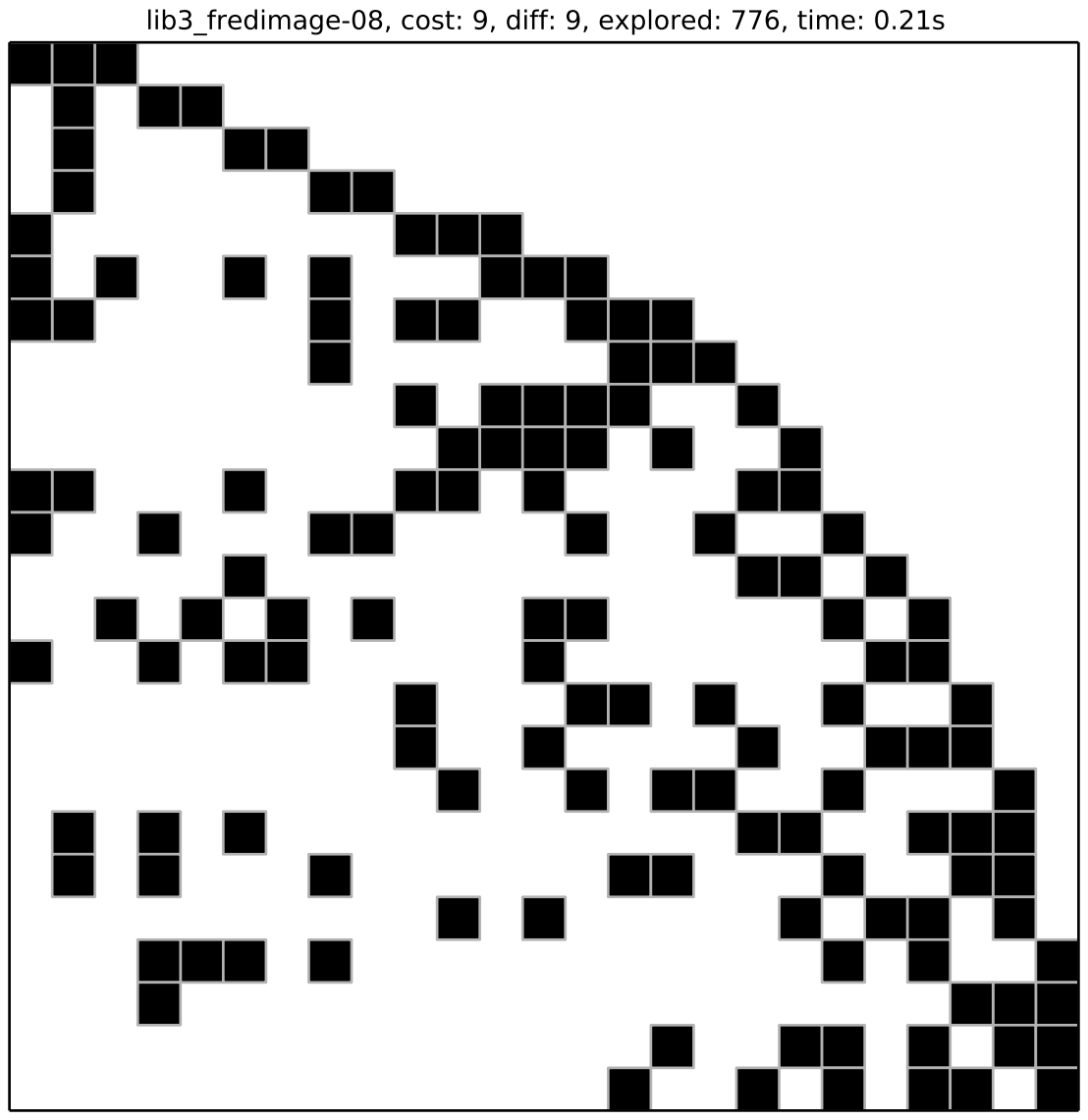
lib3_fredimage-08 25x25 (144) con: 12, var: 13

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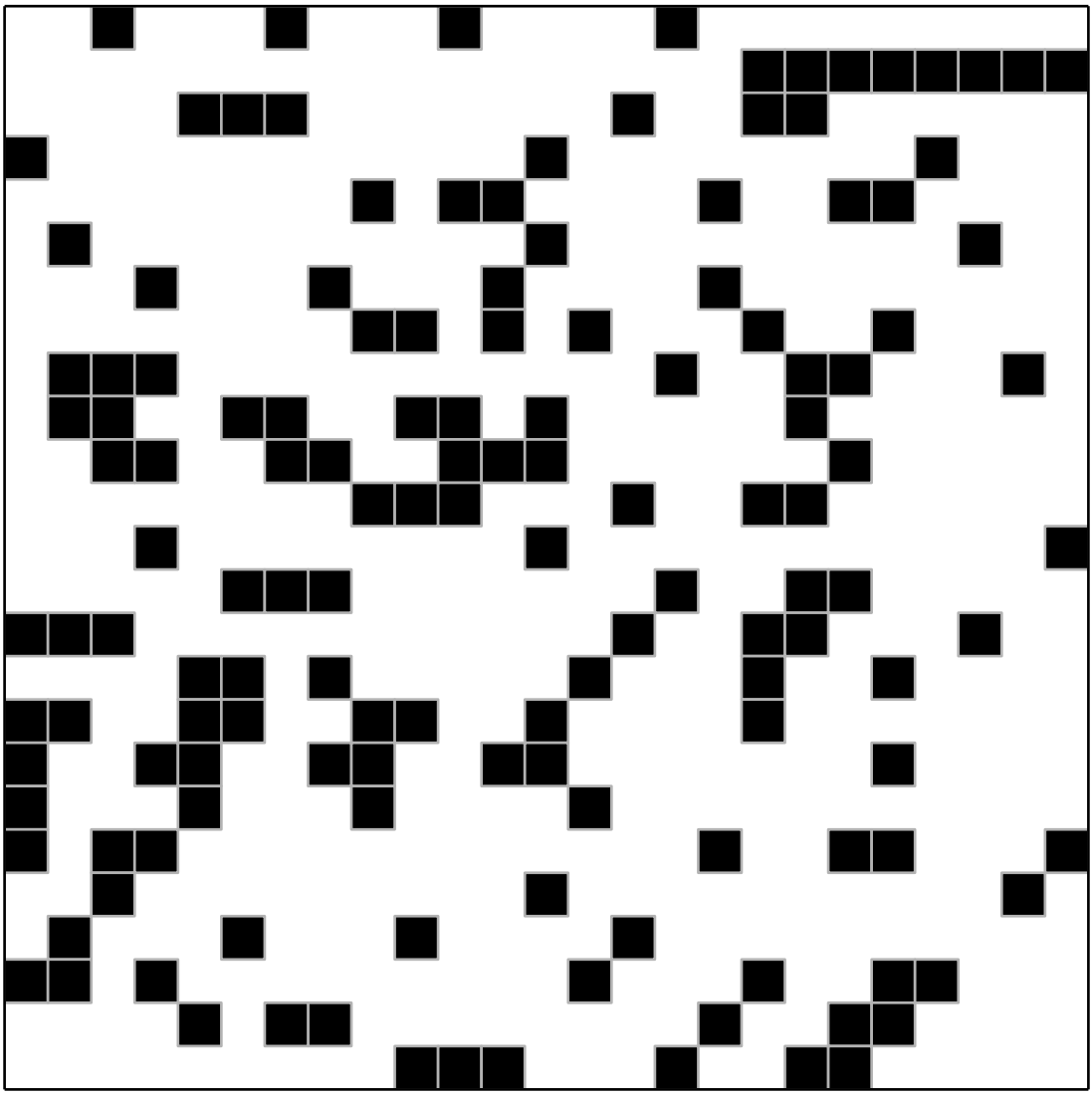
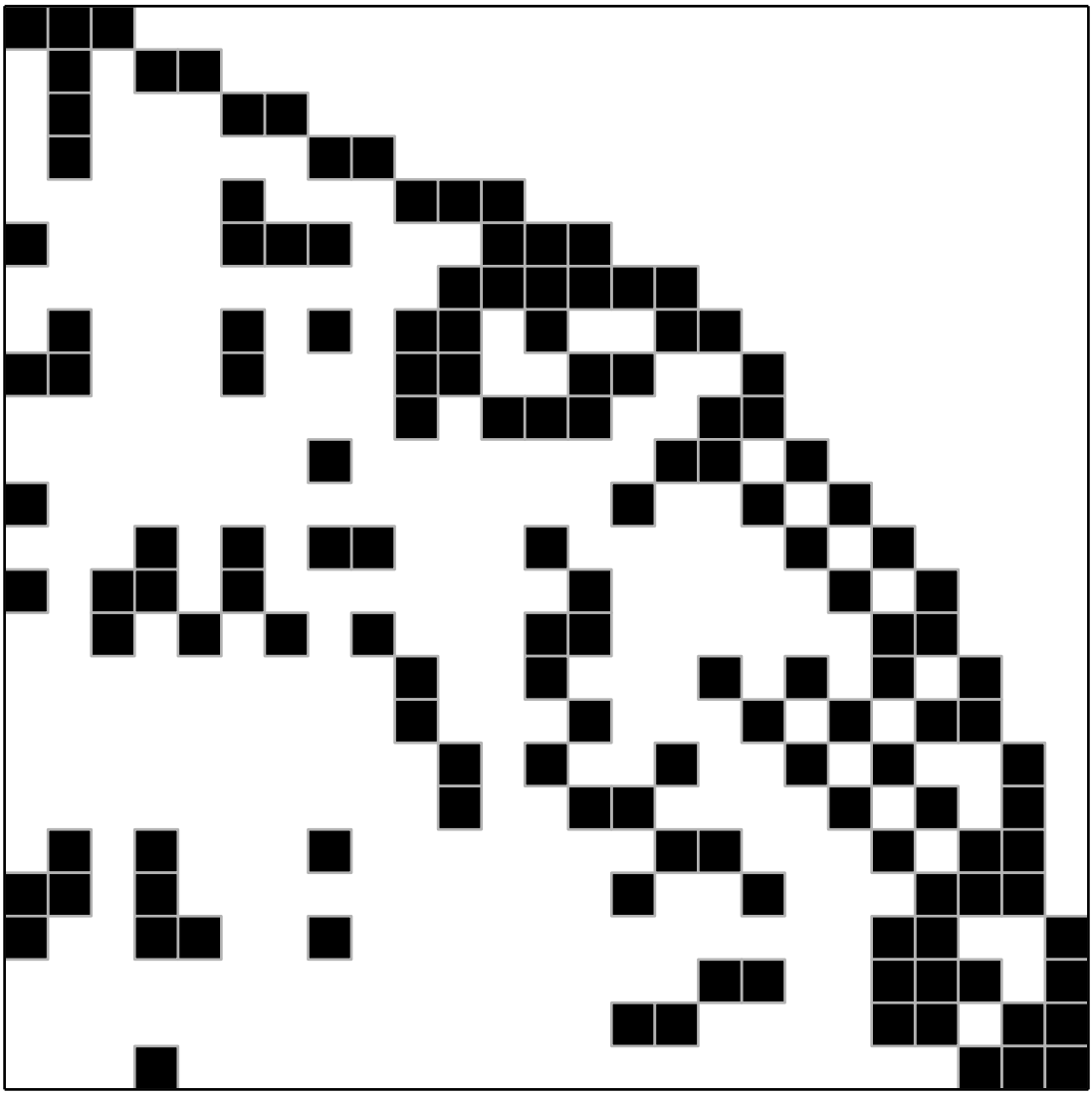

lib3_fredimage-09 25x25 (144) con: 12, var: 13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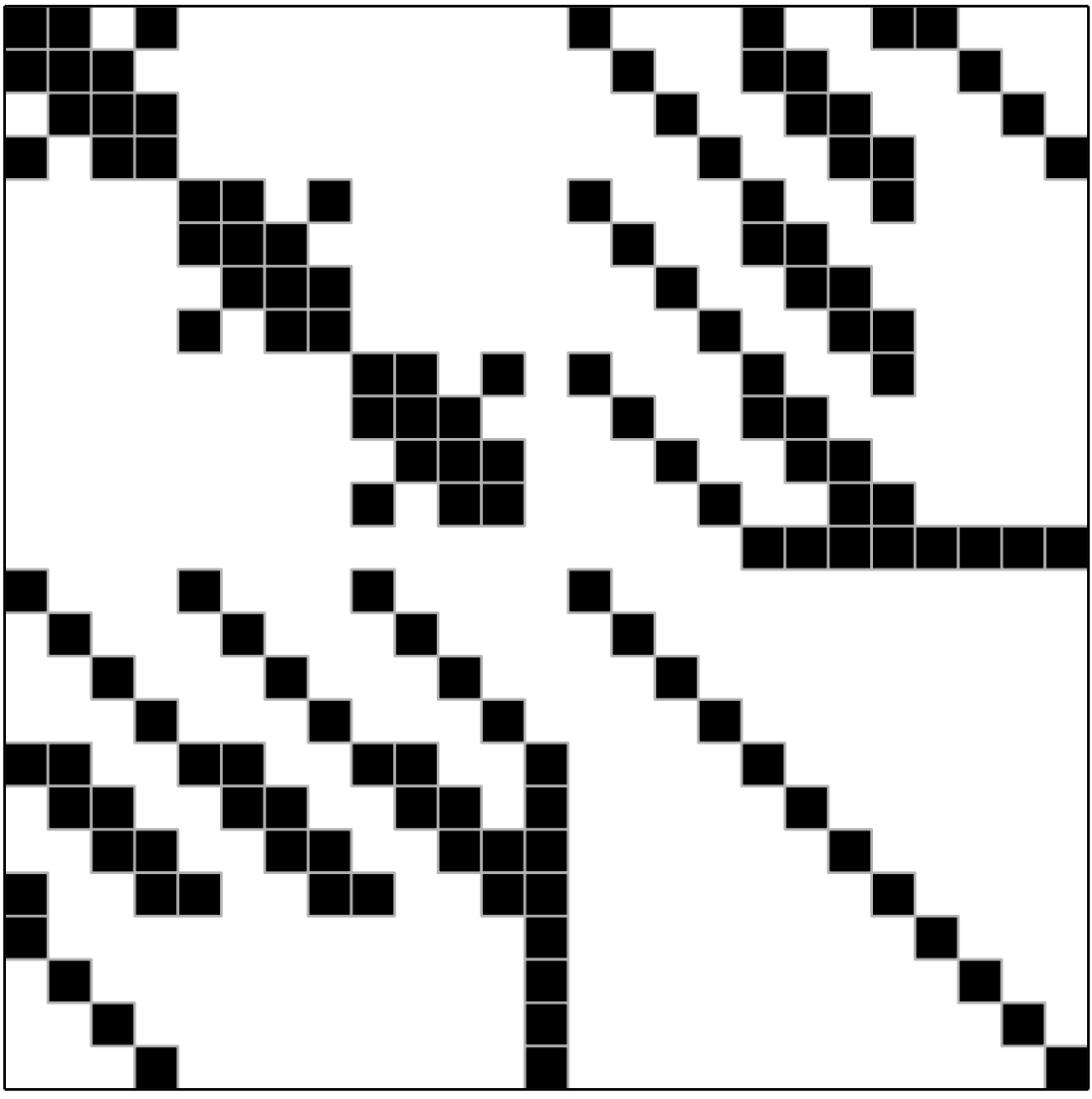
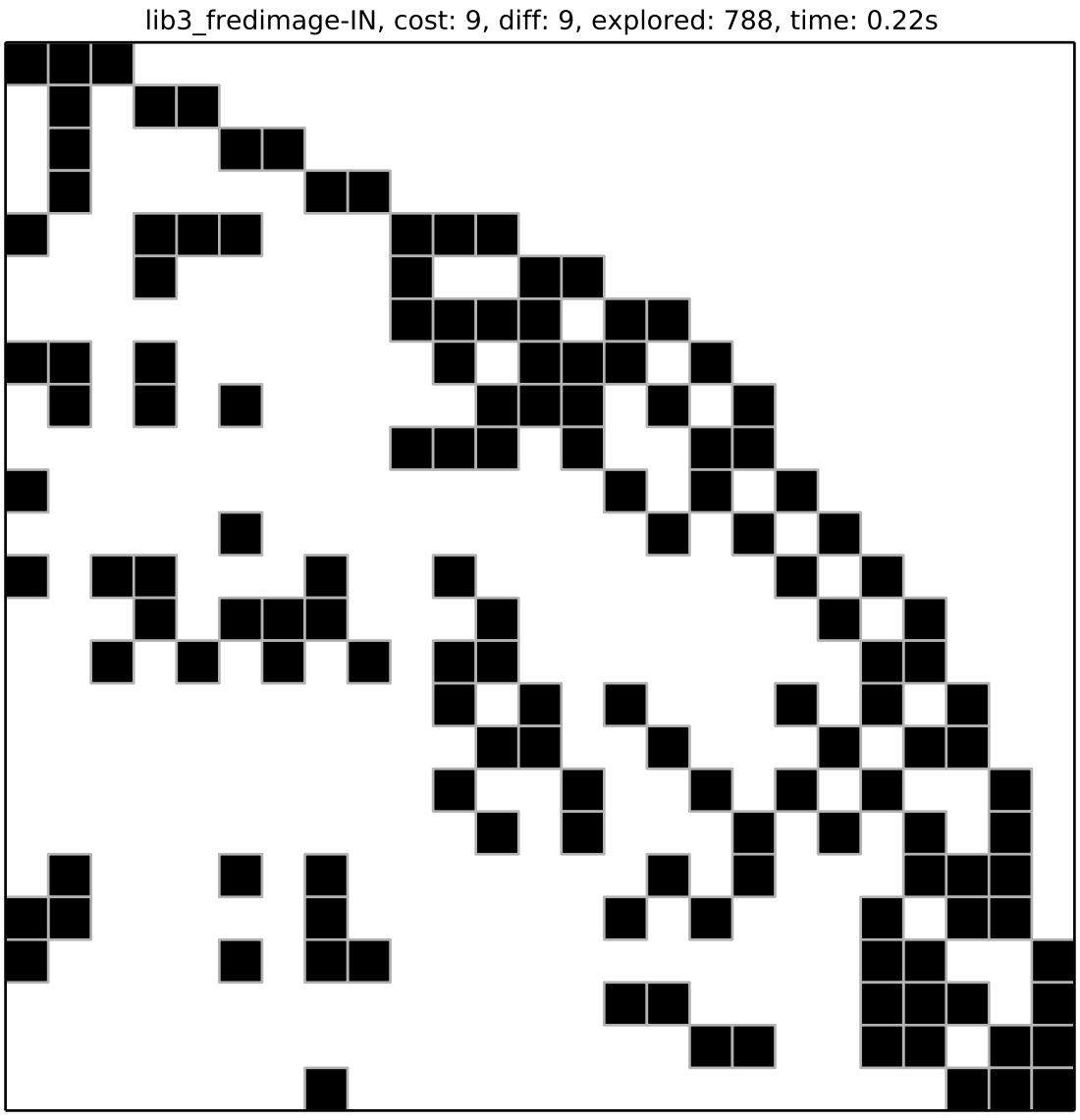

lib3_fredimage-IN 25x25 (144) con: 12, var: 13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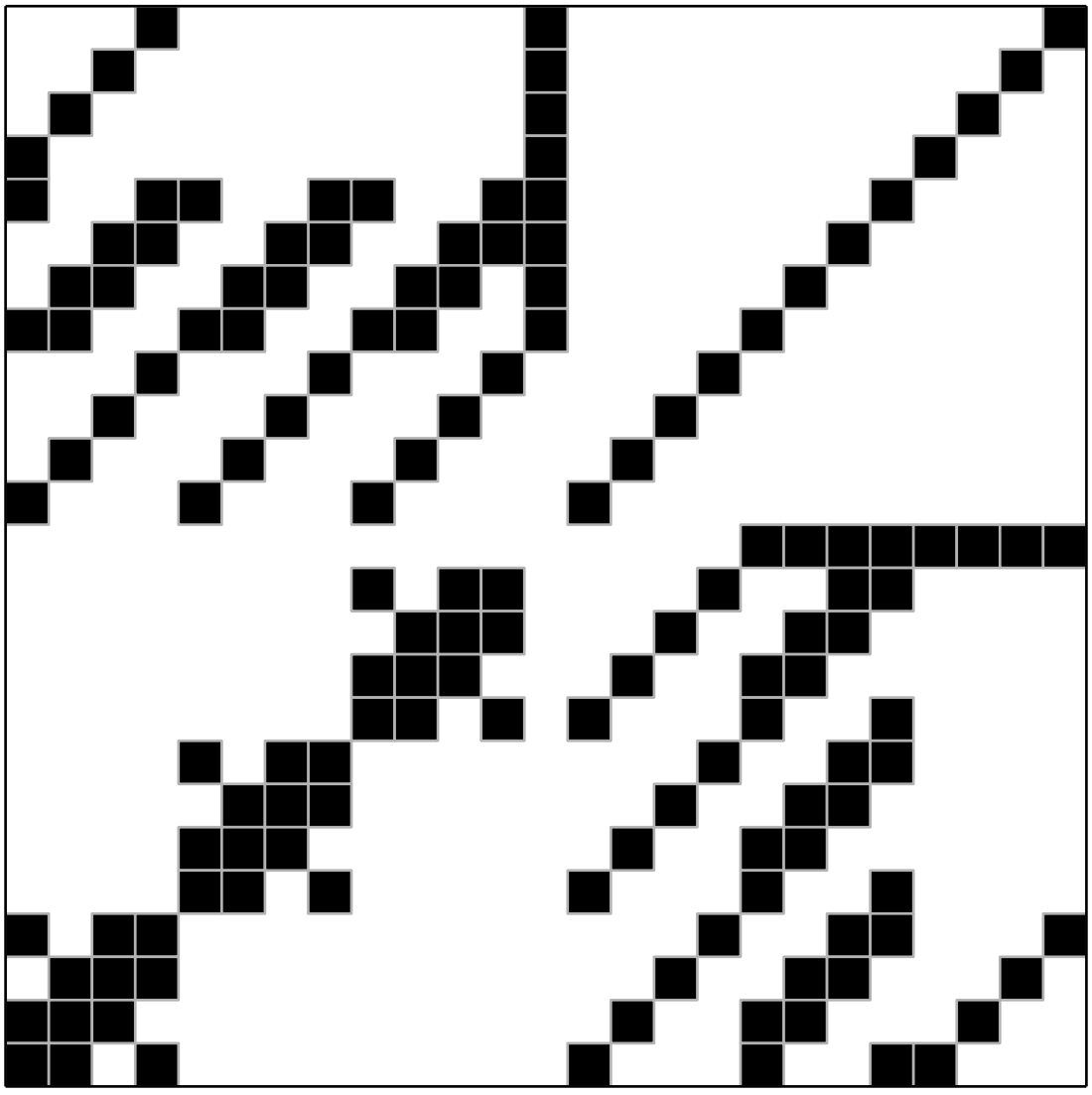
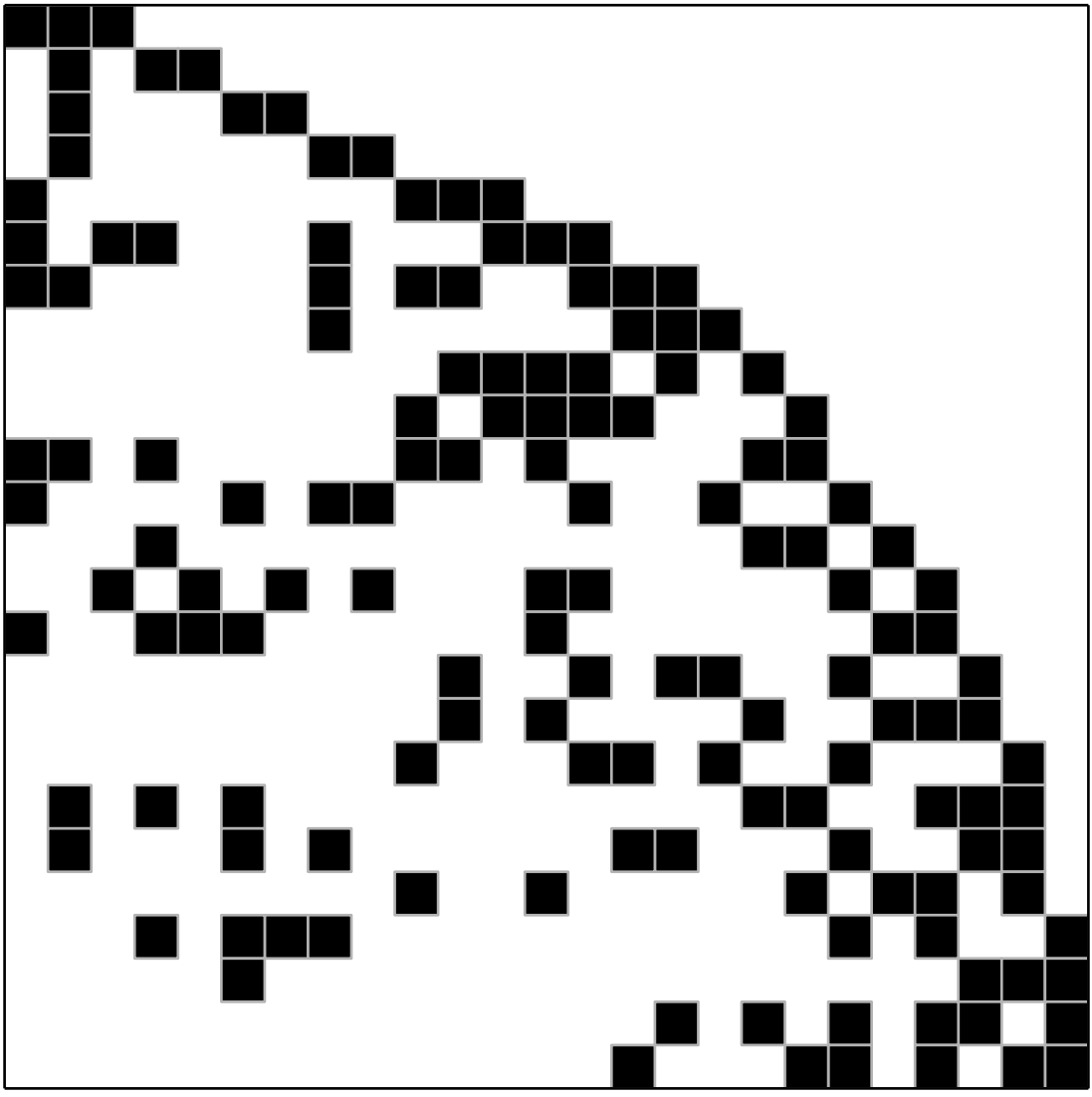
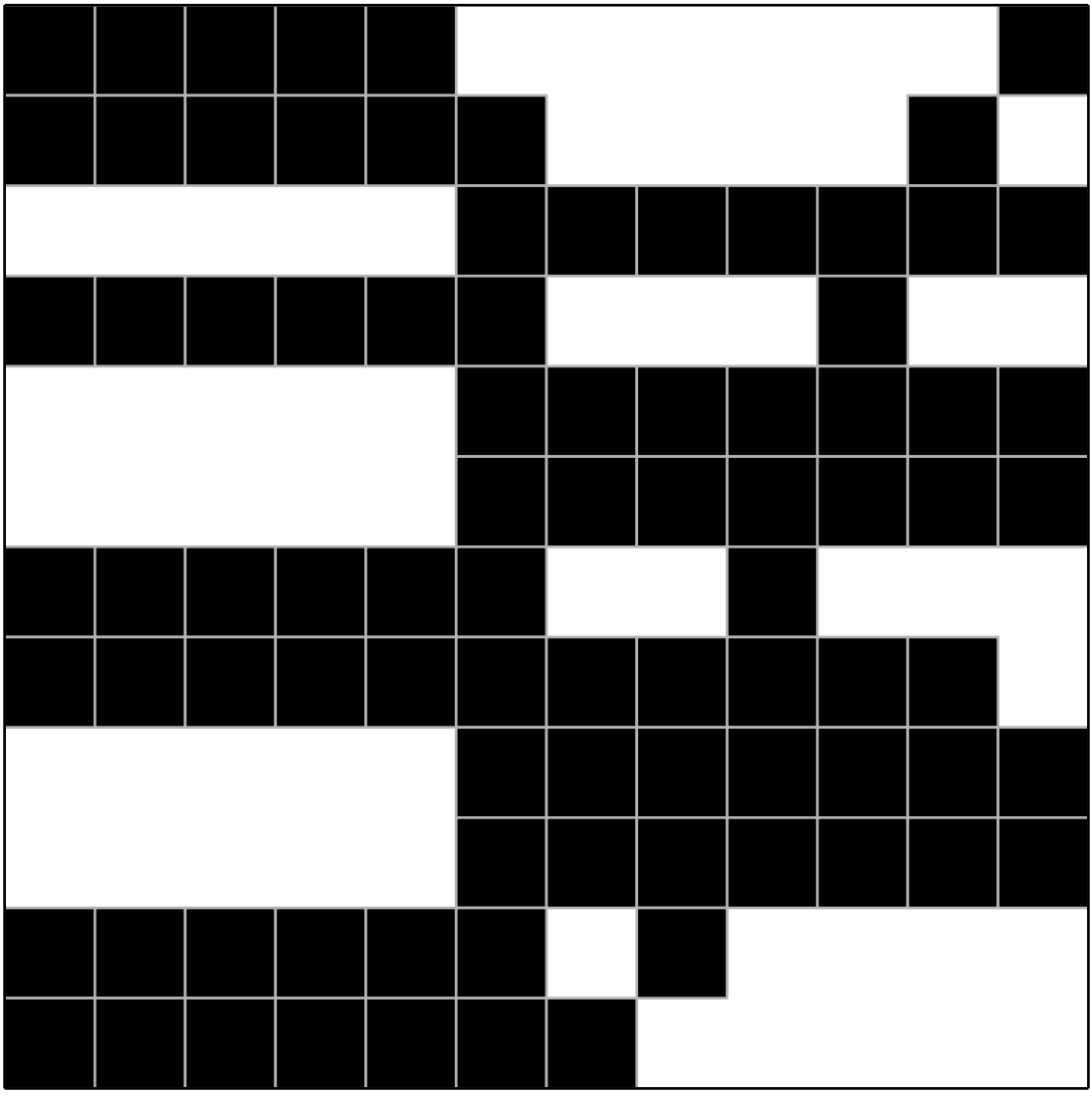
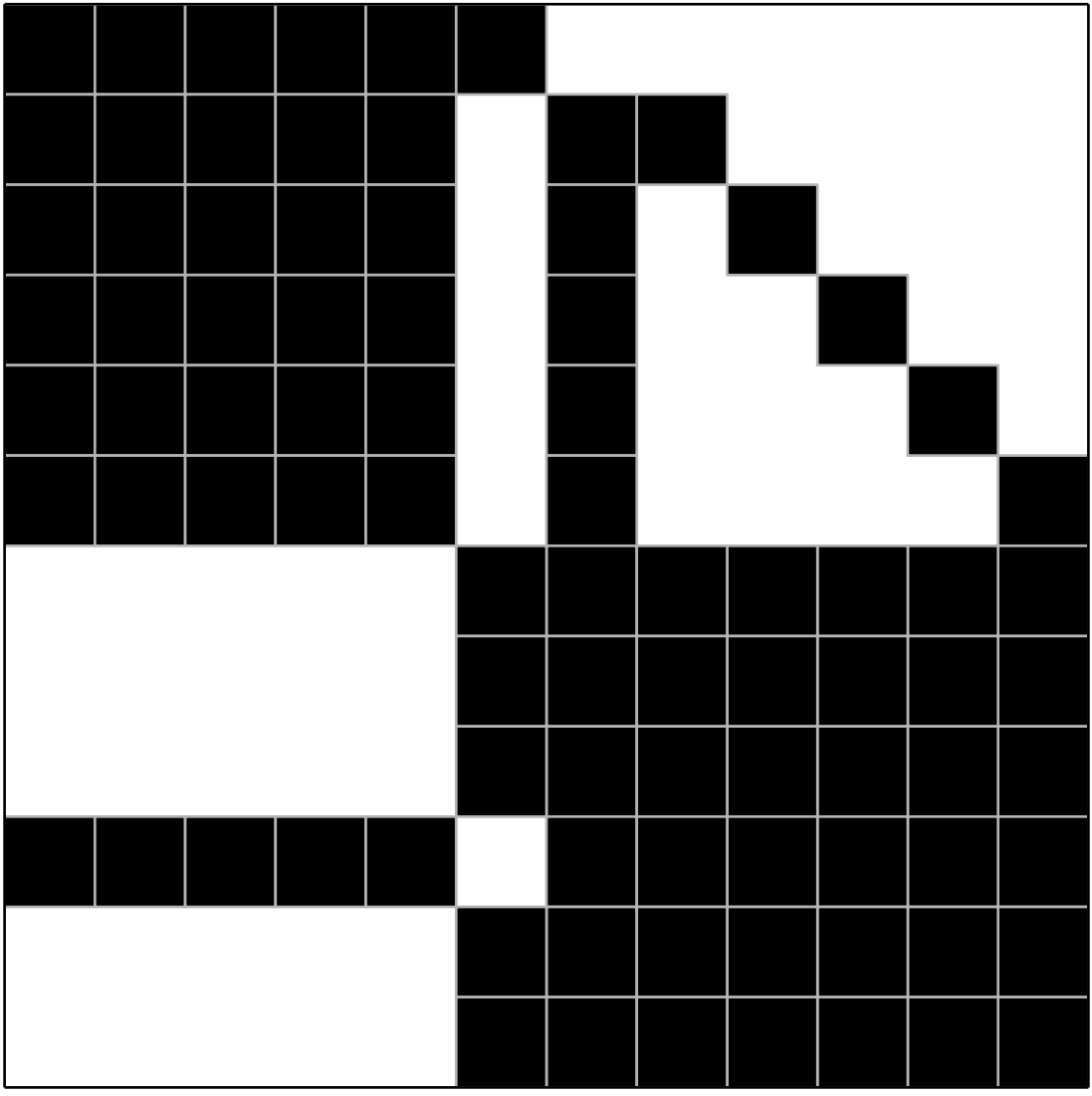

lib3_fredimage-RE 25x25 (144) con: 12, var: 13


lib3_fredimage-RE, cost: 9, diff: 9, explored: 775, time: 0.22s

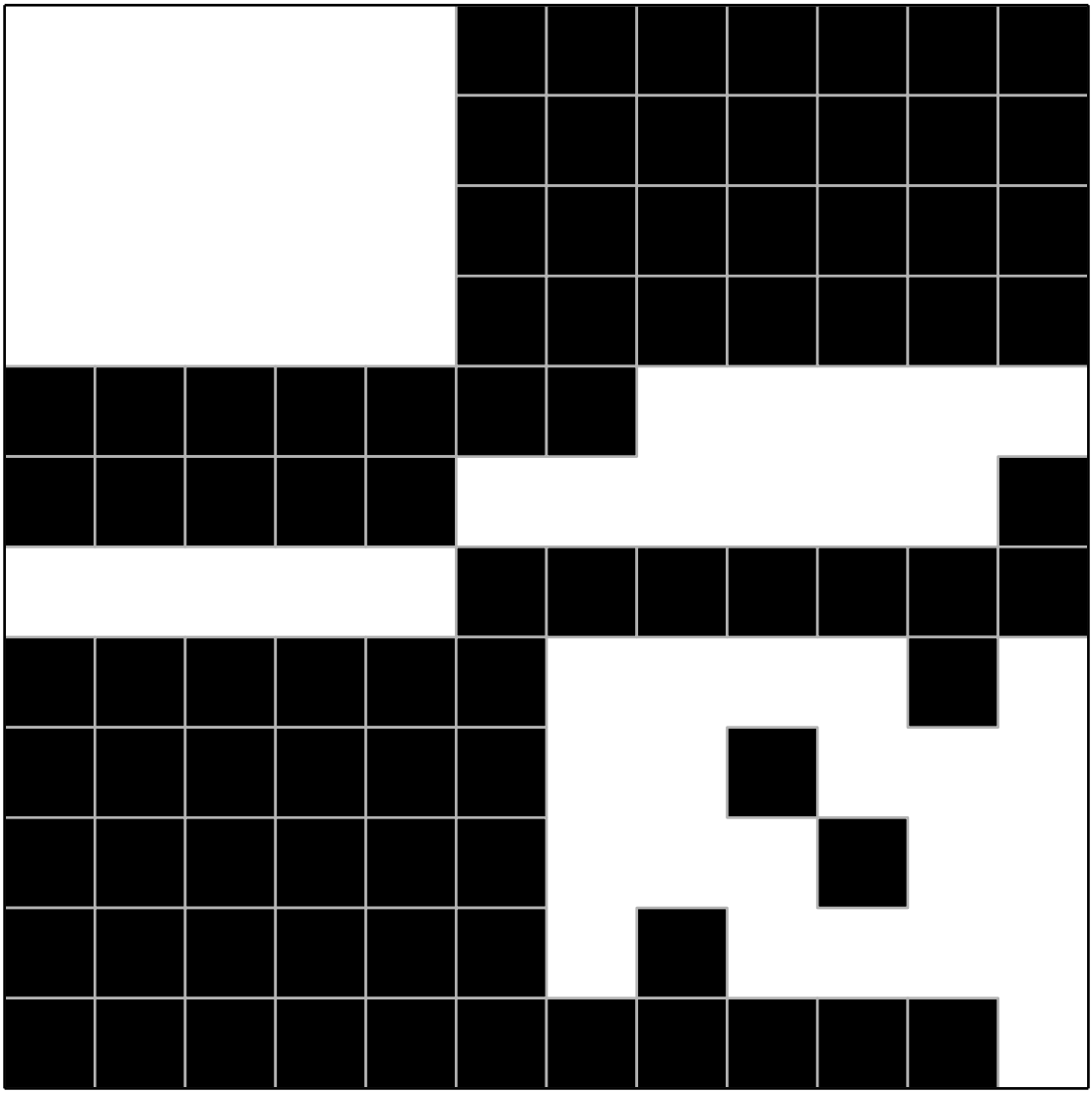
lib3_geneig-00 12x12 (87) con: 6, var: 6



lib3_geneig-00, cost: 6, diff: 6, explored: 2, time: 0.00s



lib3_geneig-01 12x12 (87) con: 6, var: 6



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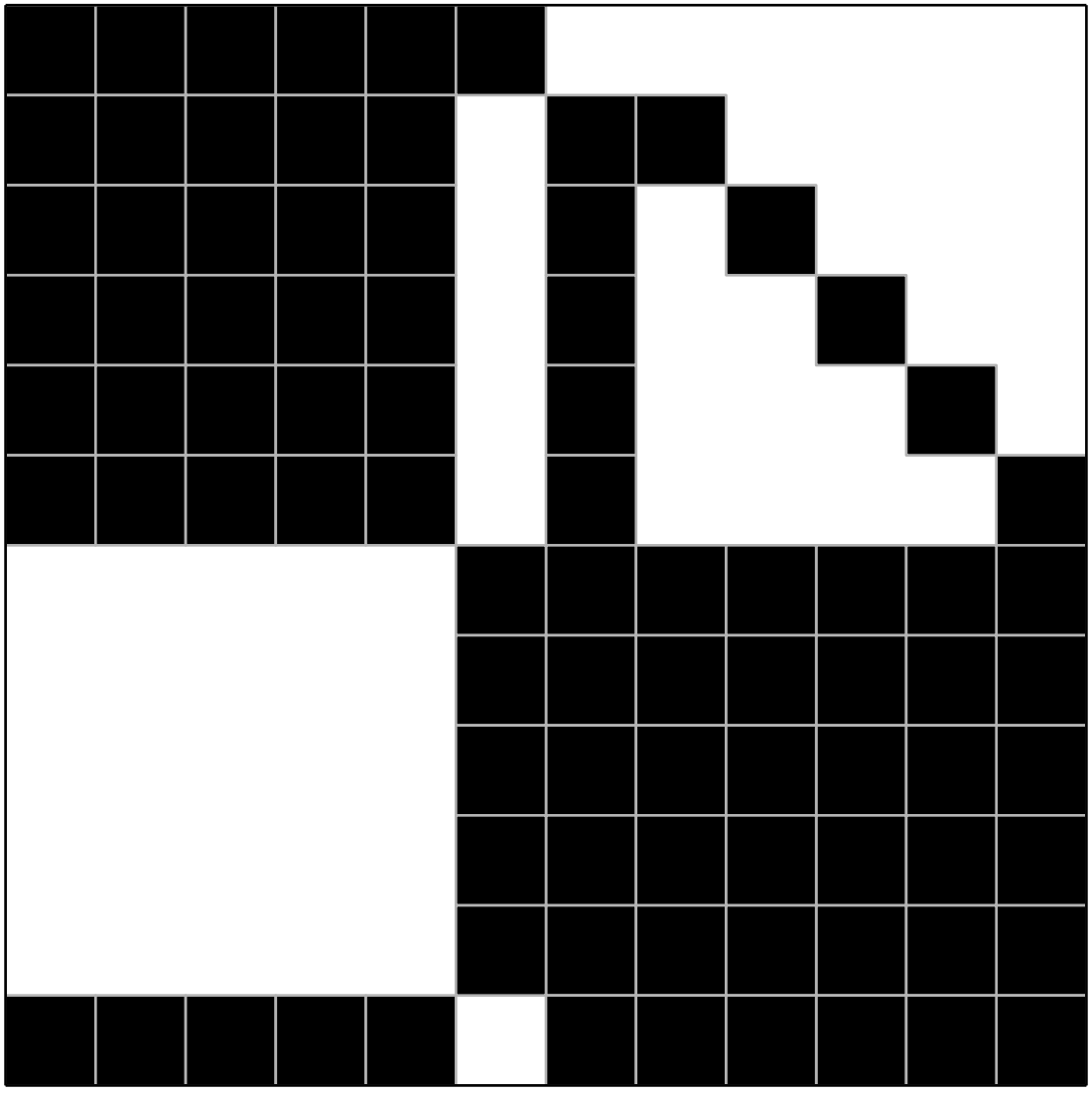
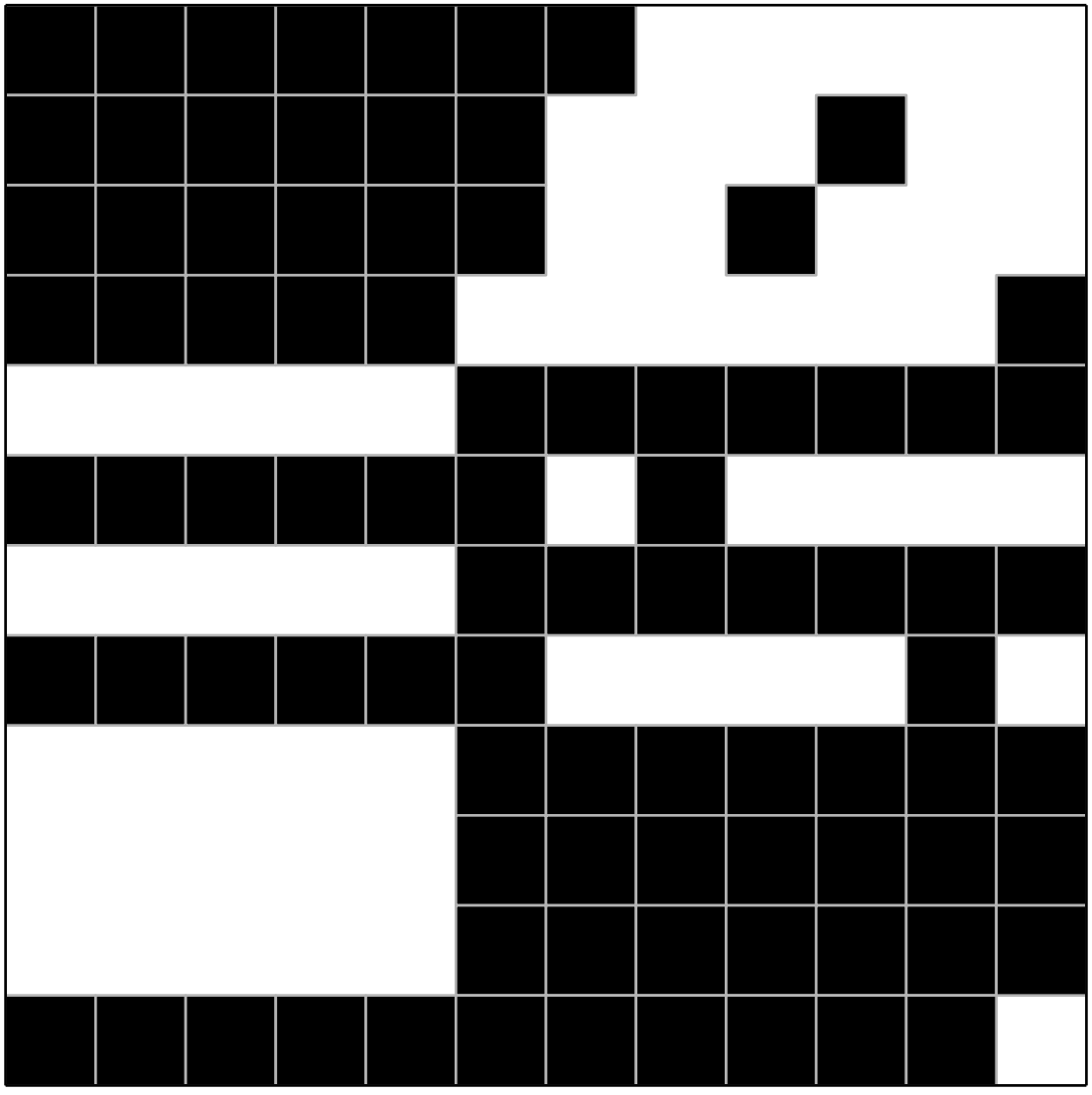
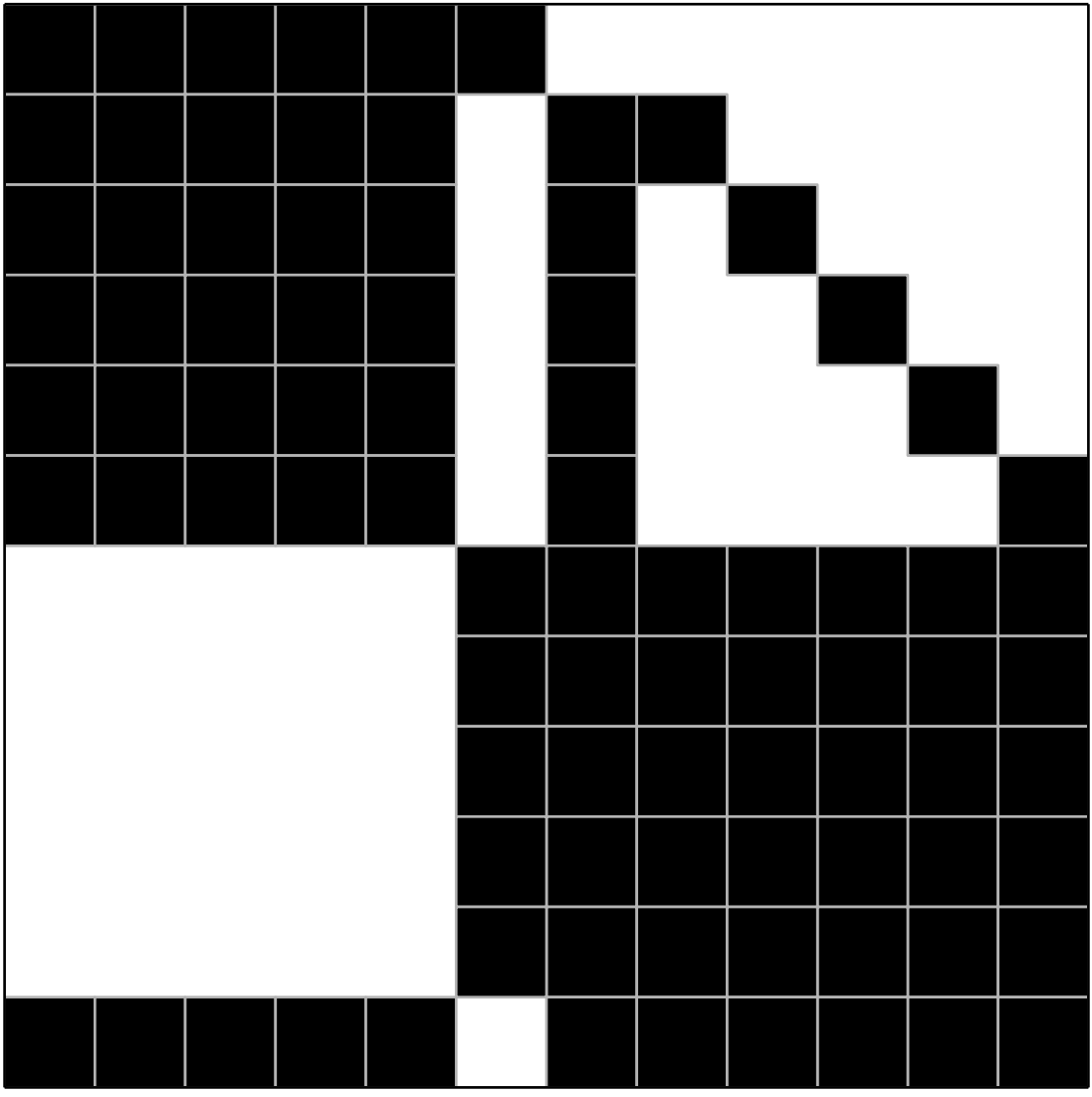


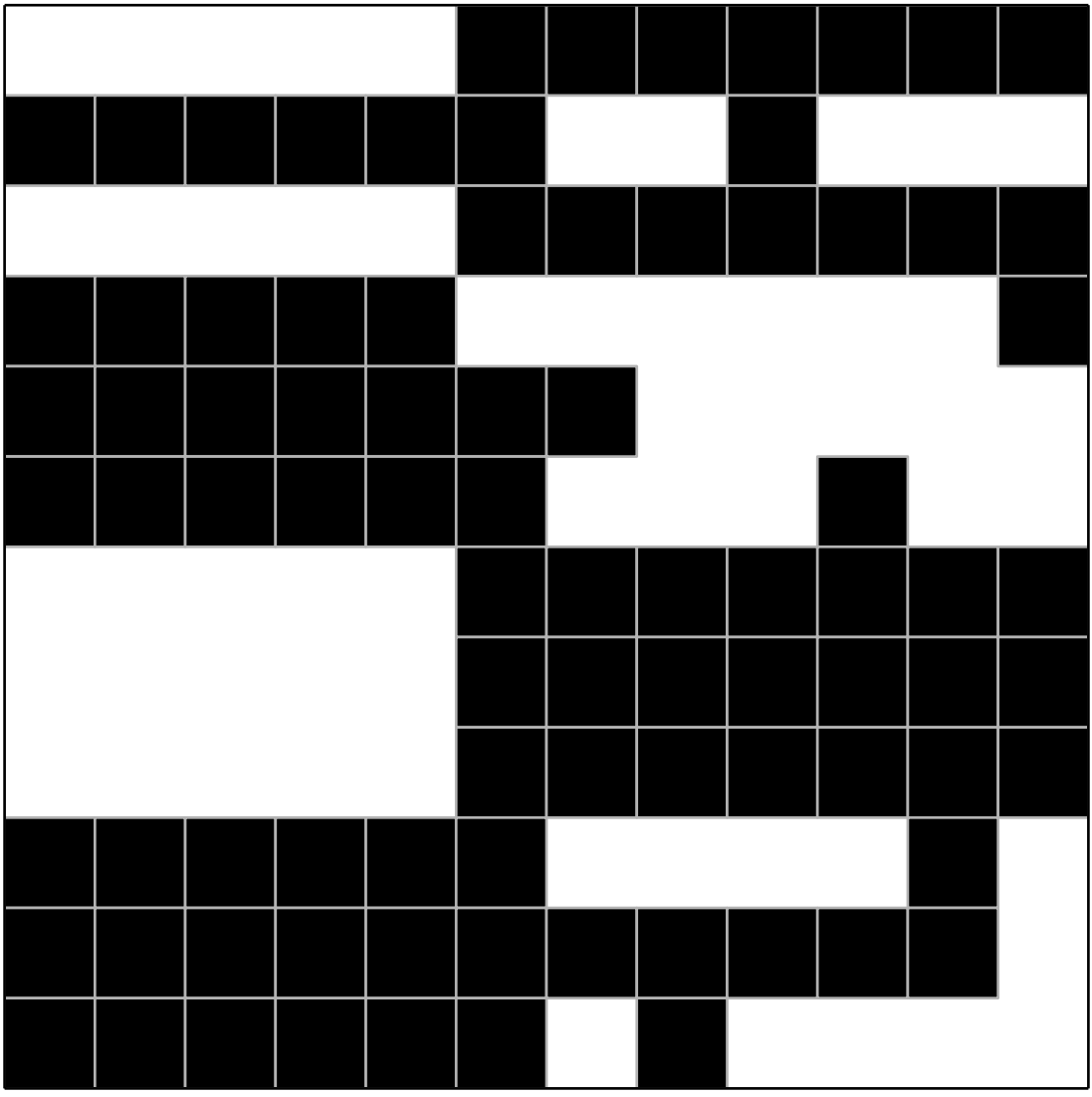
lib3_geneig-02 12x12 (87) con: 6, var: 6



lib3_geneig-02, cost: 6, diff: 6, explored: 2, time: 0.00s



lib3_geneig-03 12x12 (87) con: 6, var: 6



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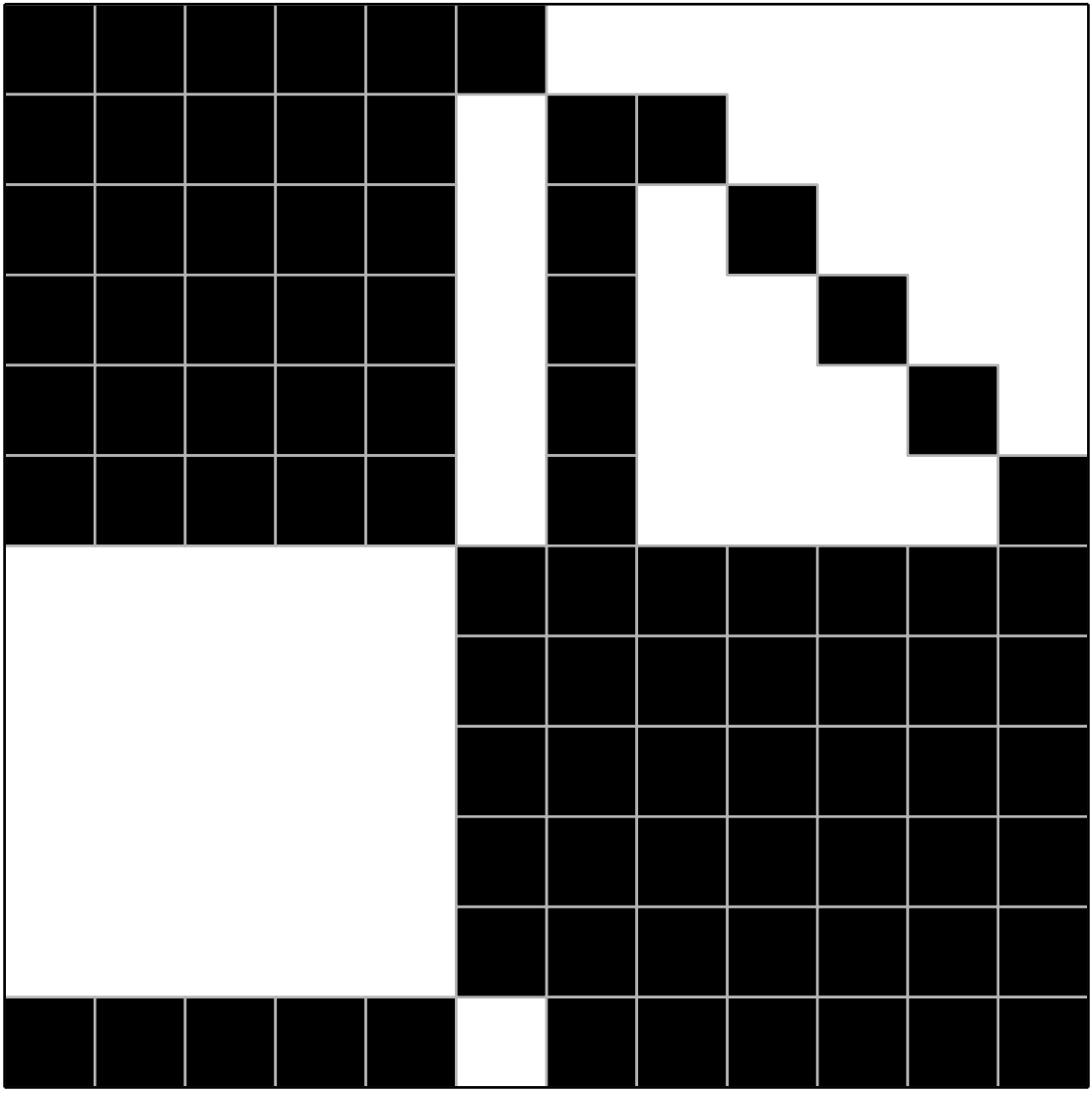
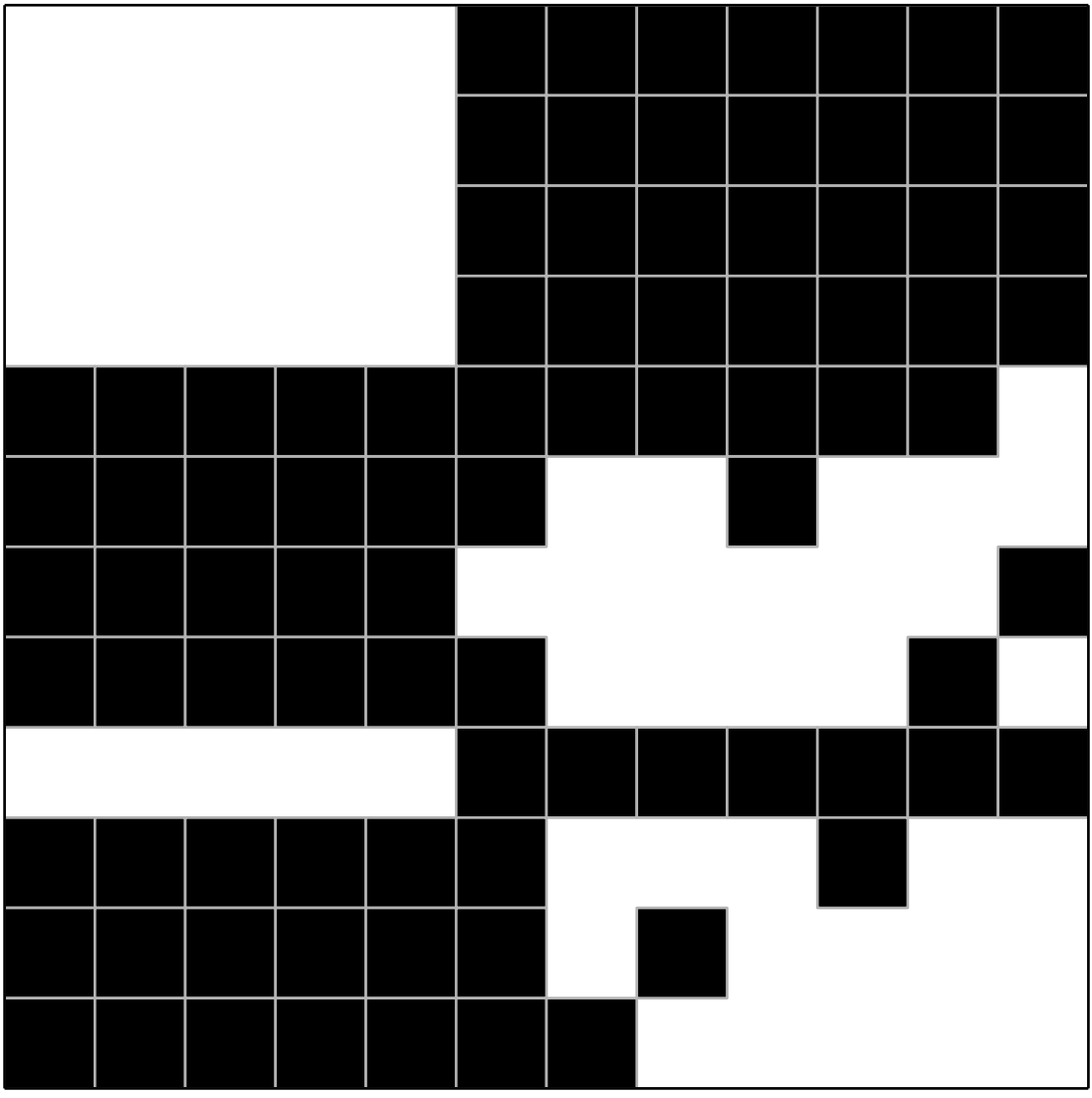
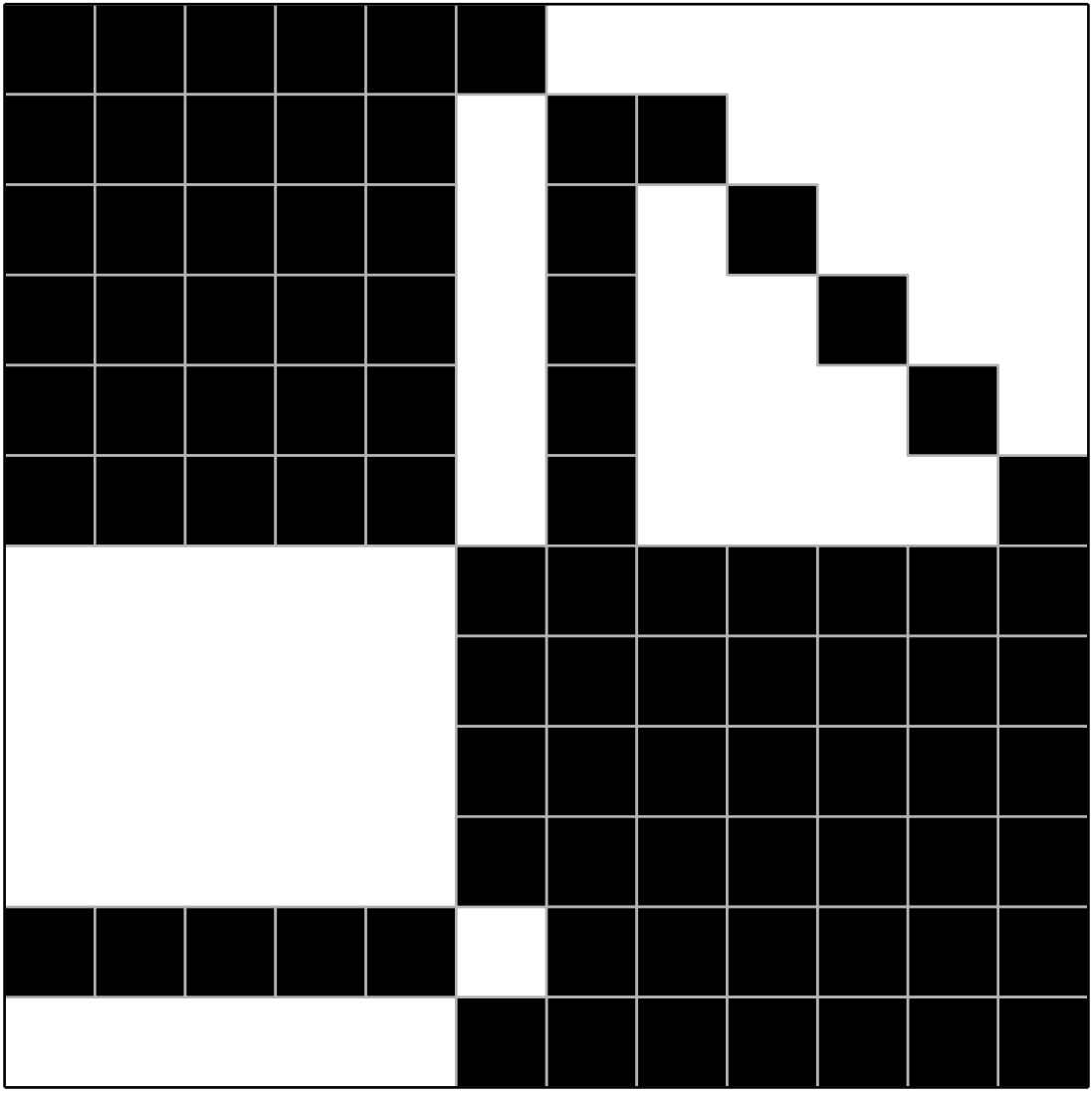


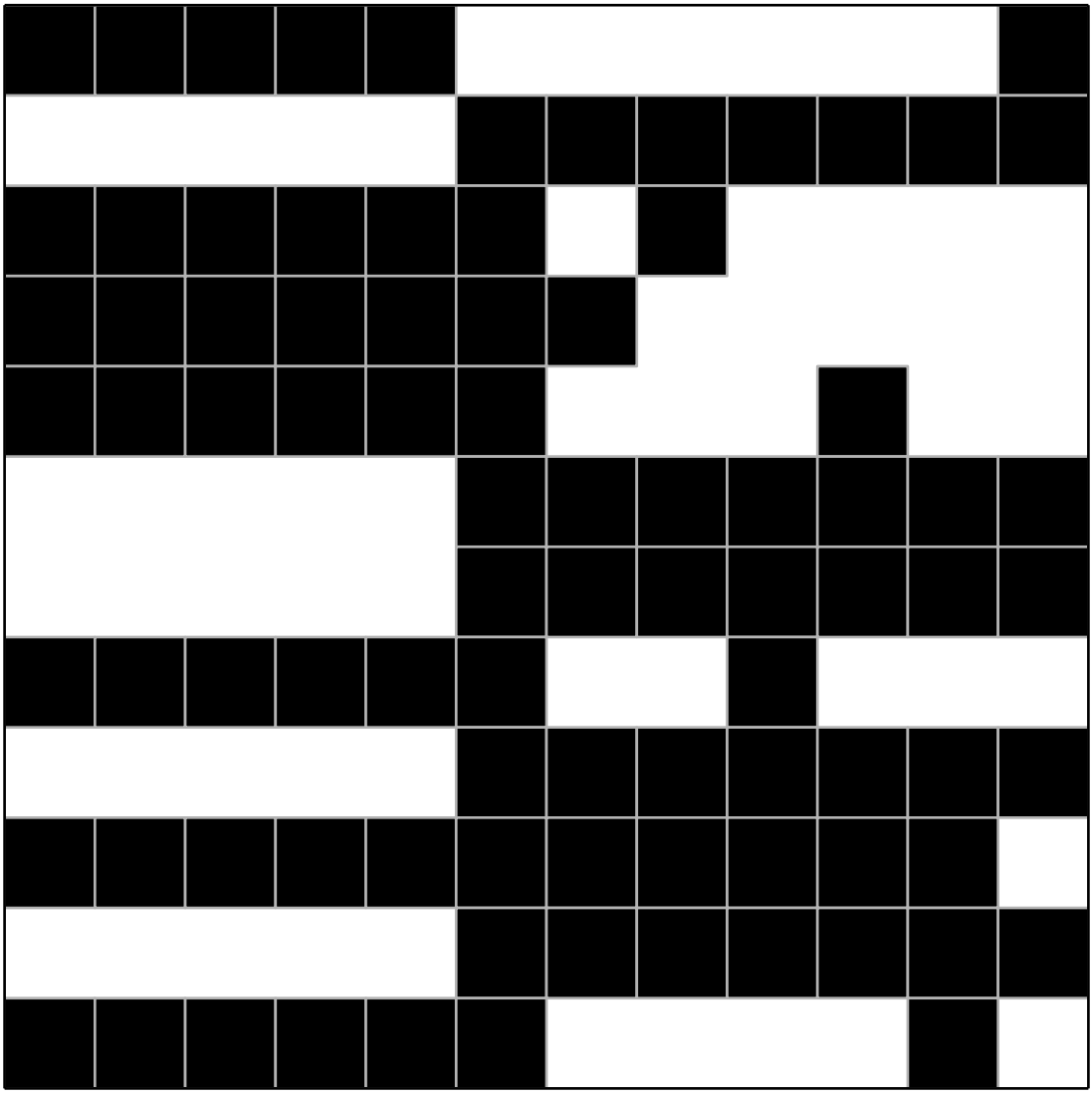
lib3_geneig-04 12x12 (87) con: 6, var: 6



lib3_geneig-04, cost: 6, diff: 6, explored: 2, time: 0.00s



lib3_geneig-05 12x12 (87) con: 6, var: 6



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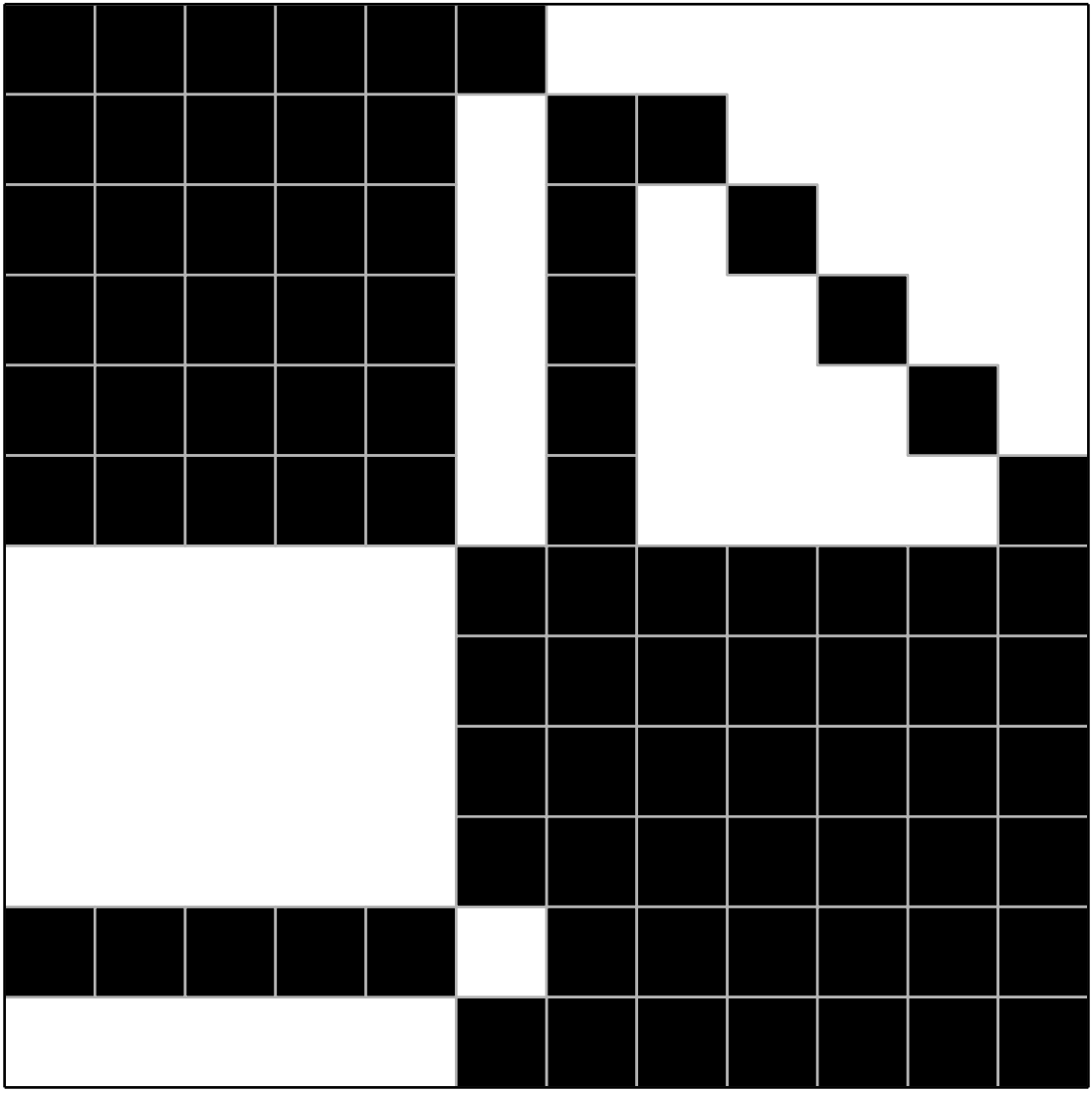

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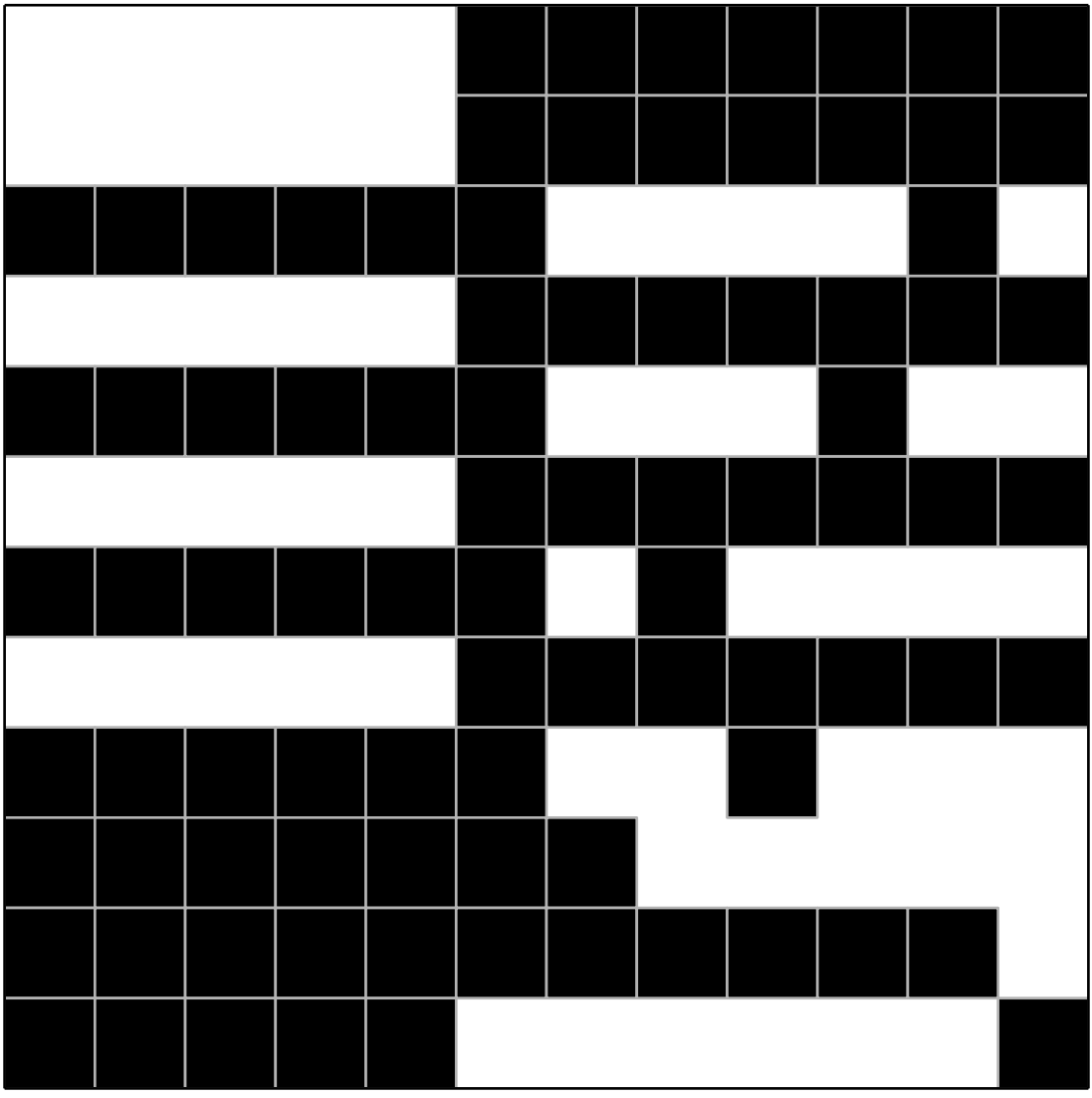

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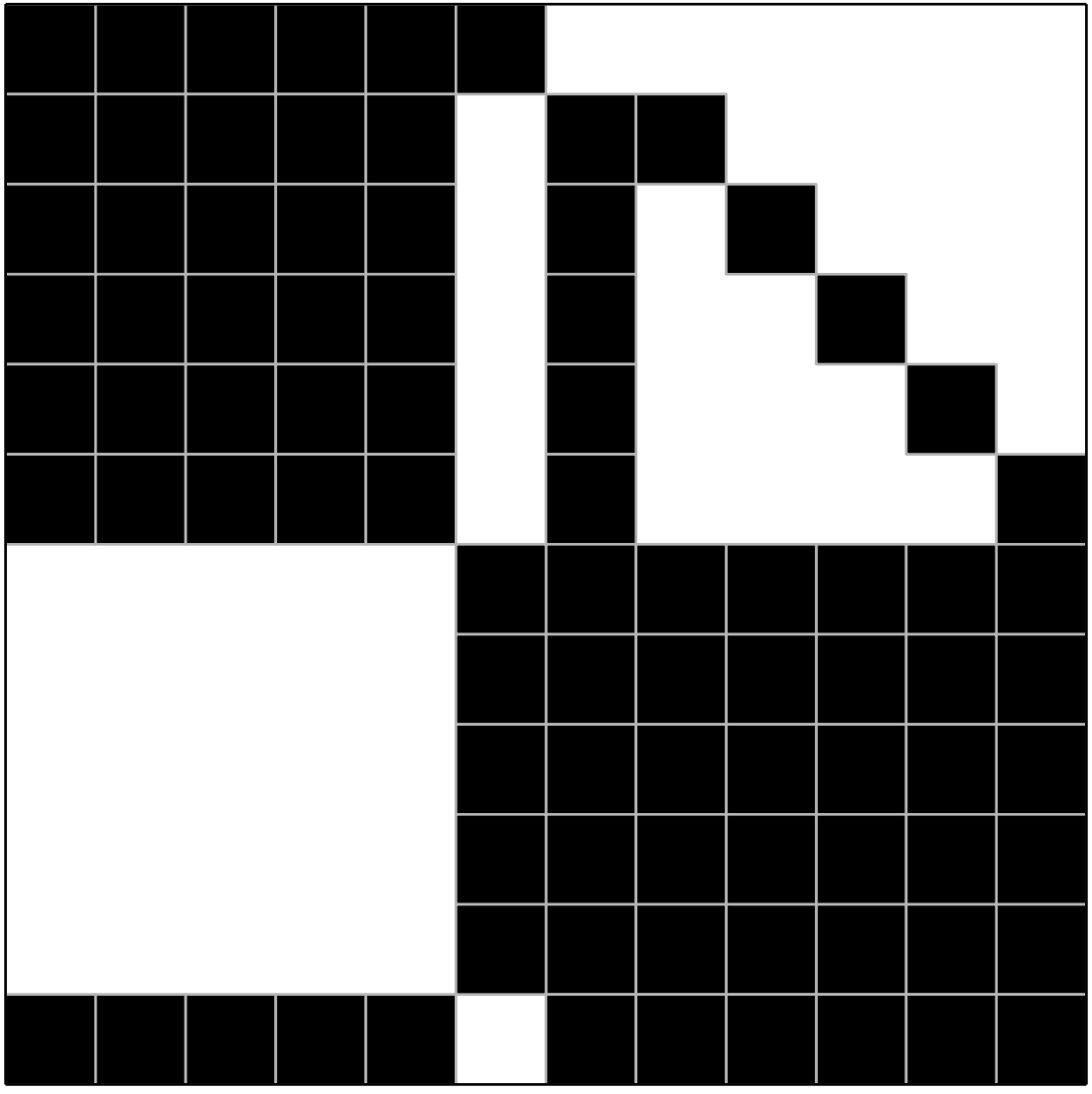

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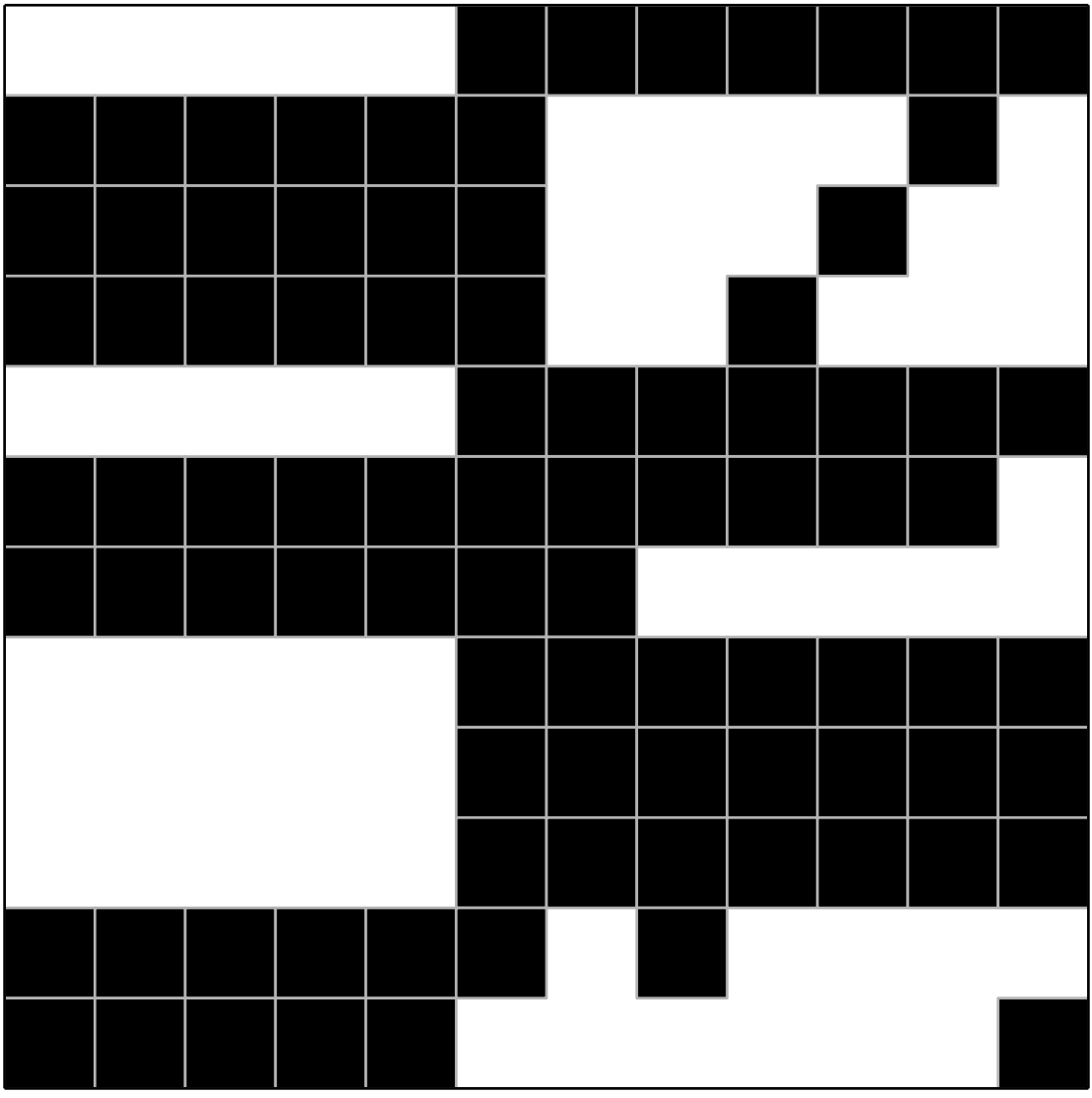

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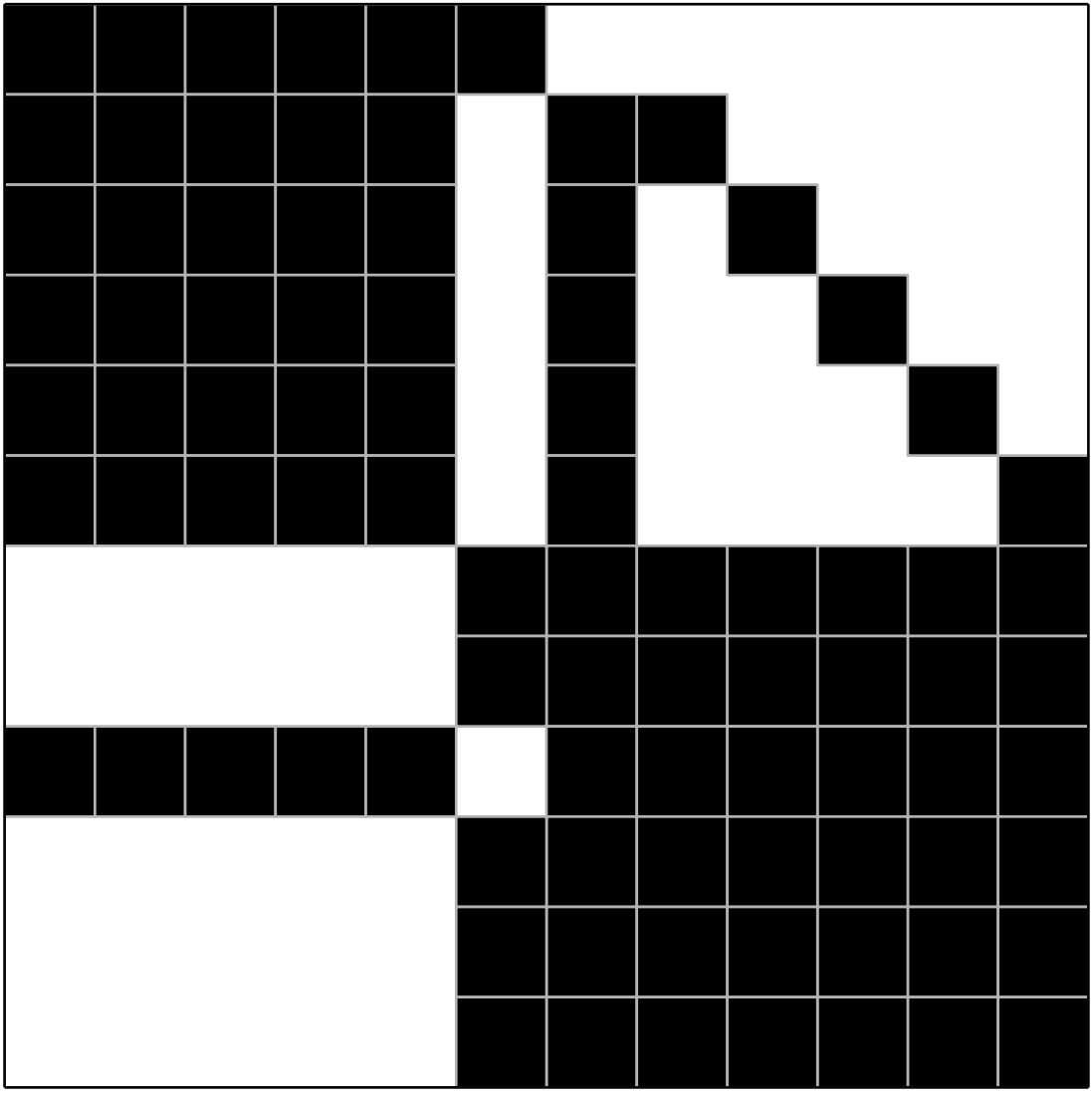
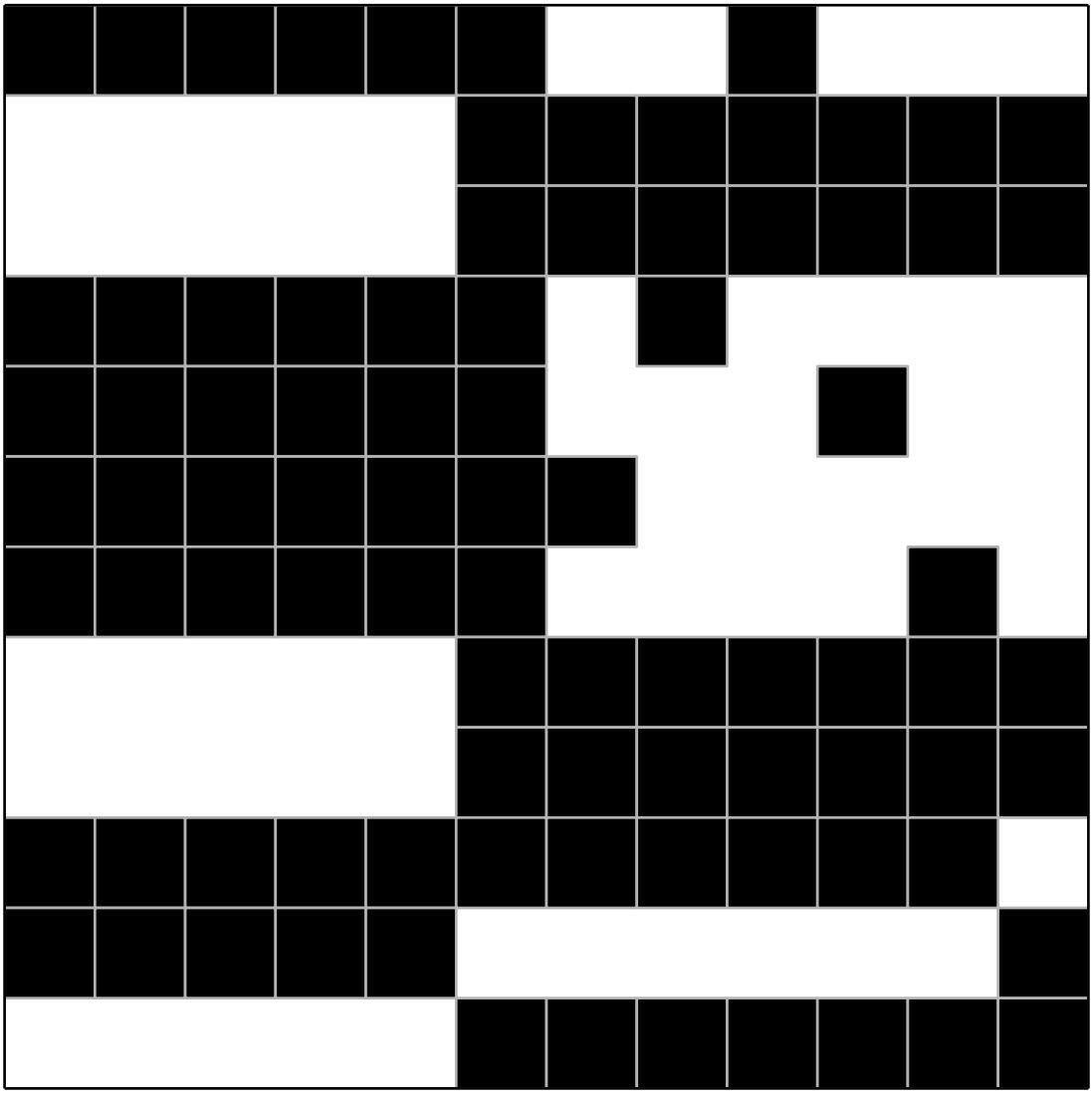


lib3_geneig-08 12x12 (87) con: 6, var: 6



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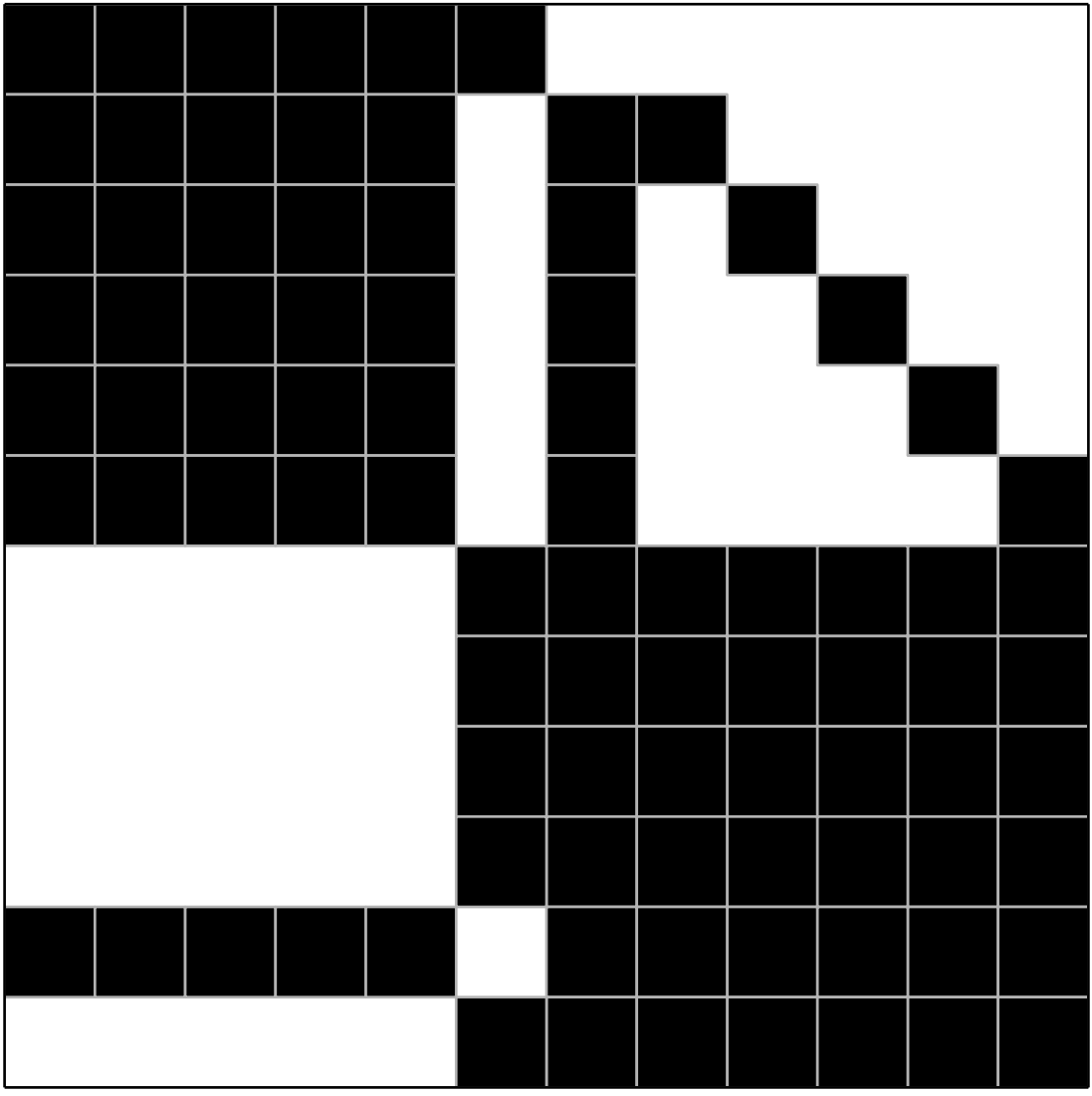
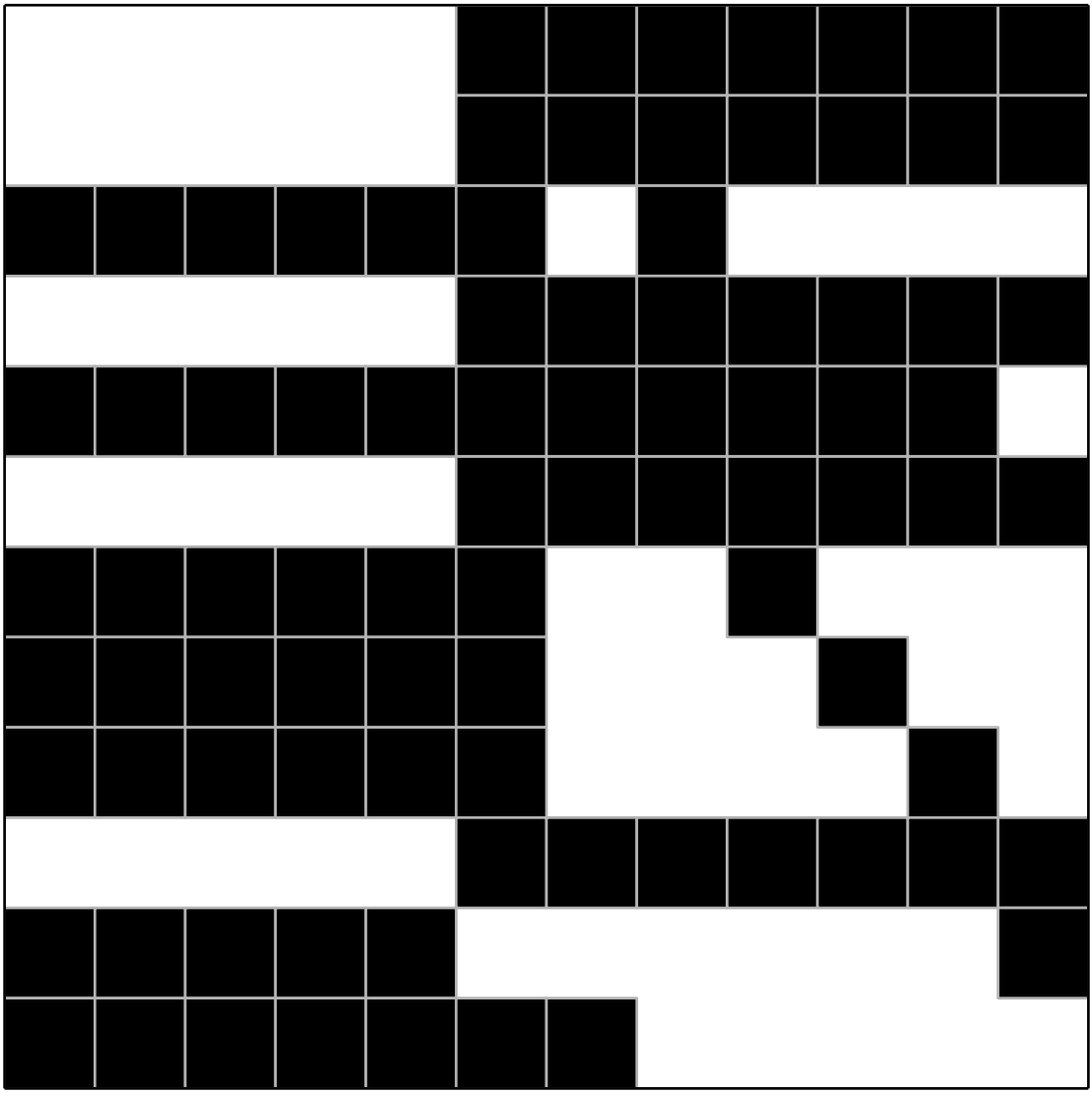


lib3_geneig-09 12x12 (87) con: 6, var: 6



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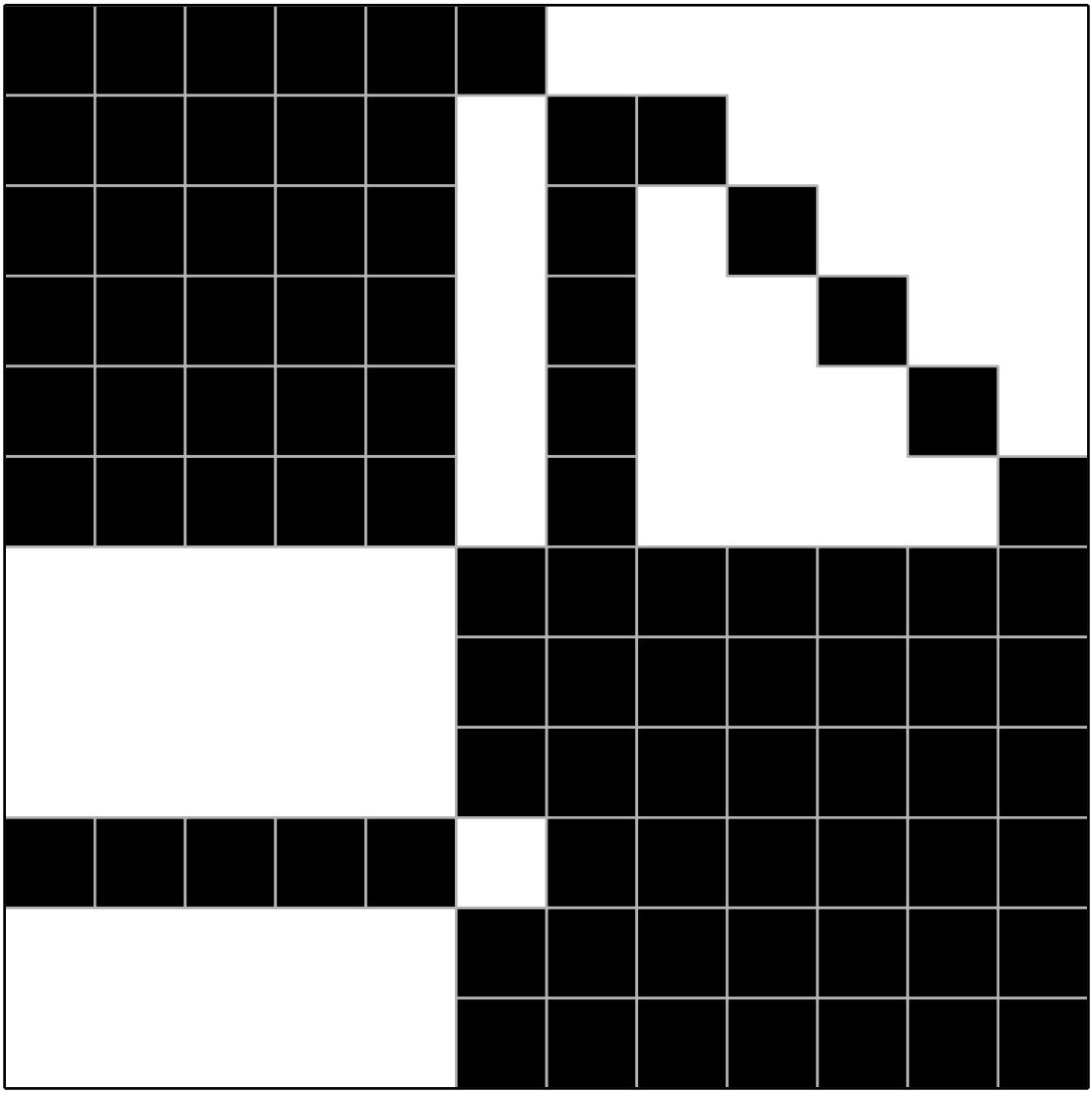
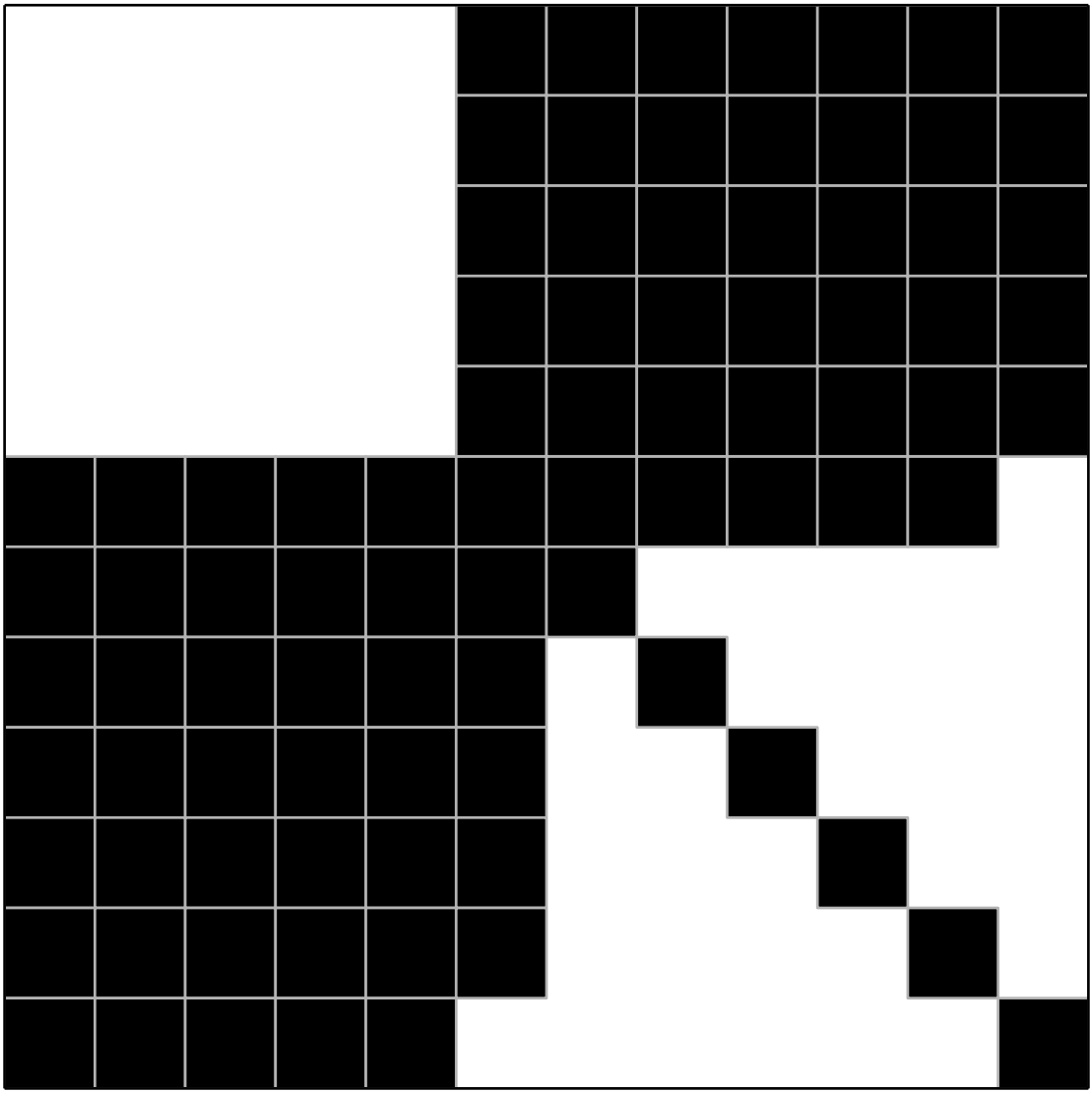


lib3_geneig-IN 12x12 (87) con: 6, var: 6



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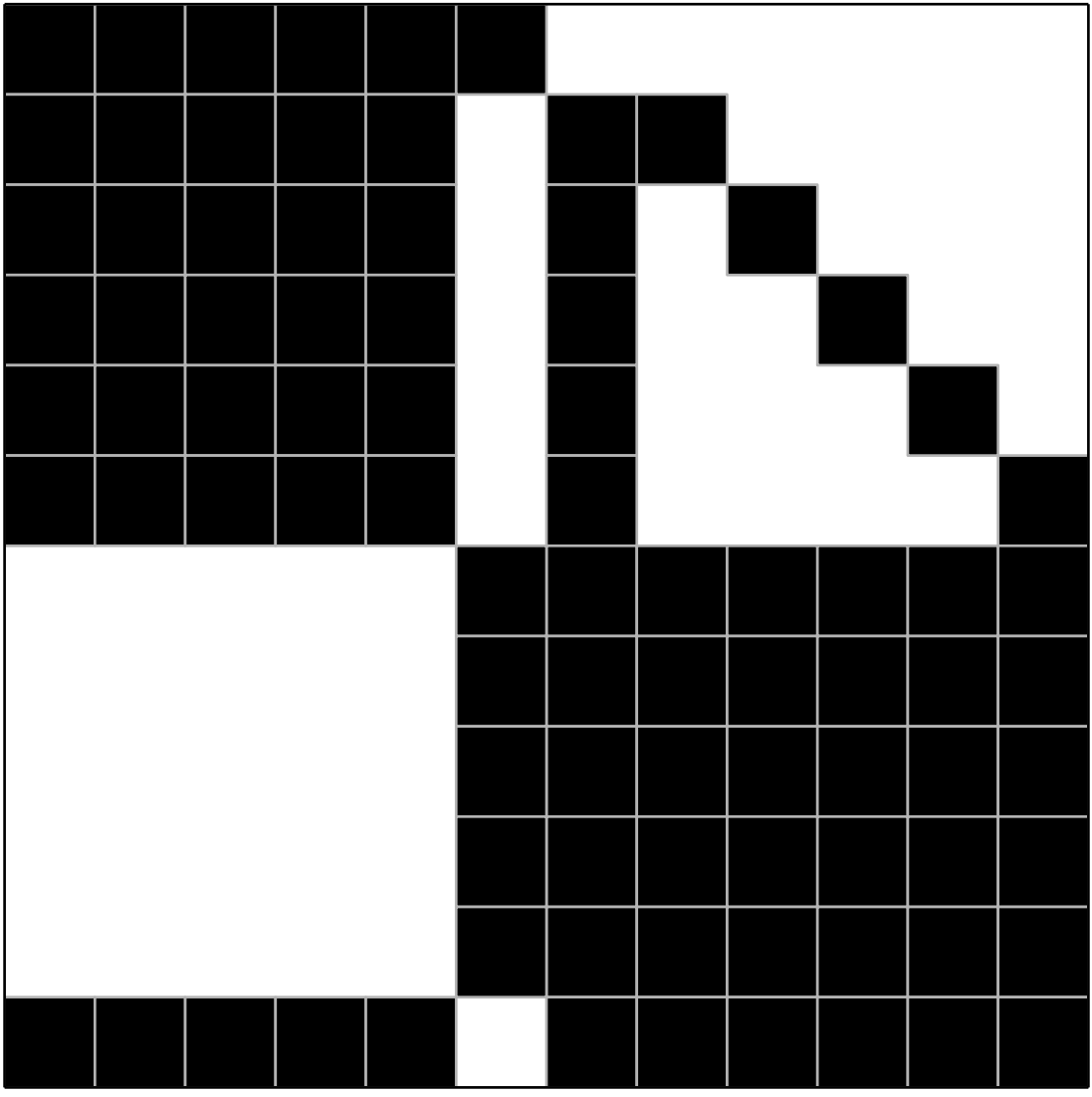
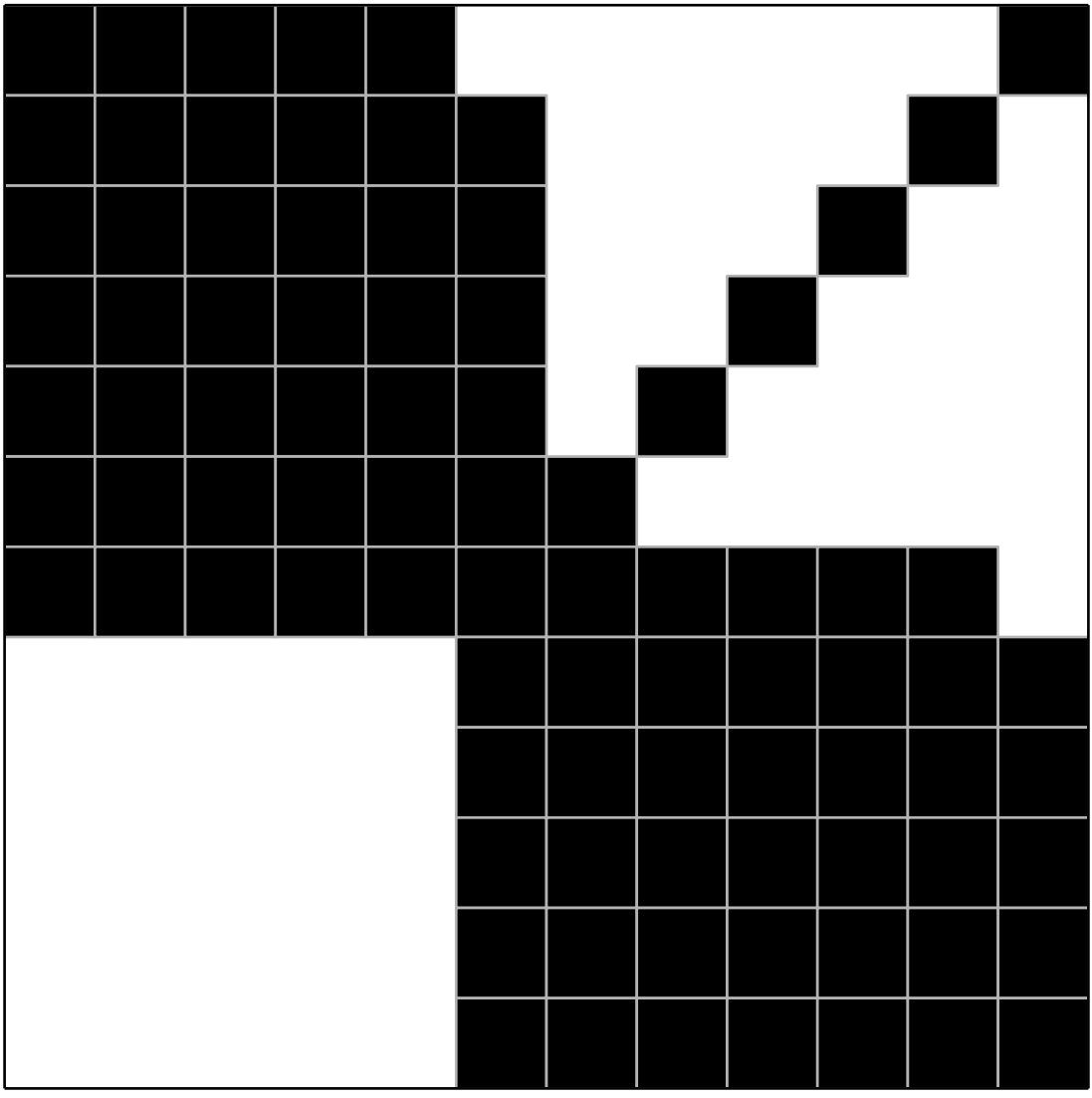


lib3_geneig-RE 12x12 (87) con: 6, var: 6



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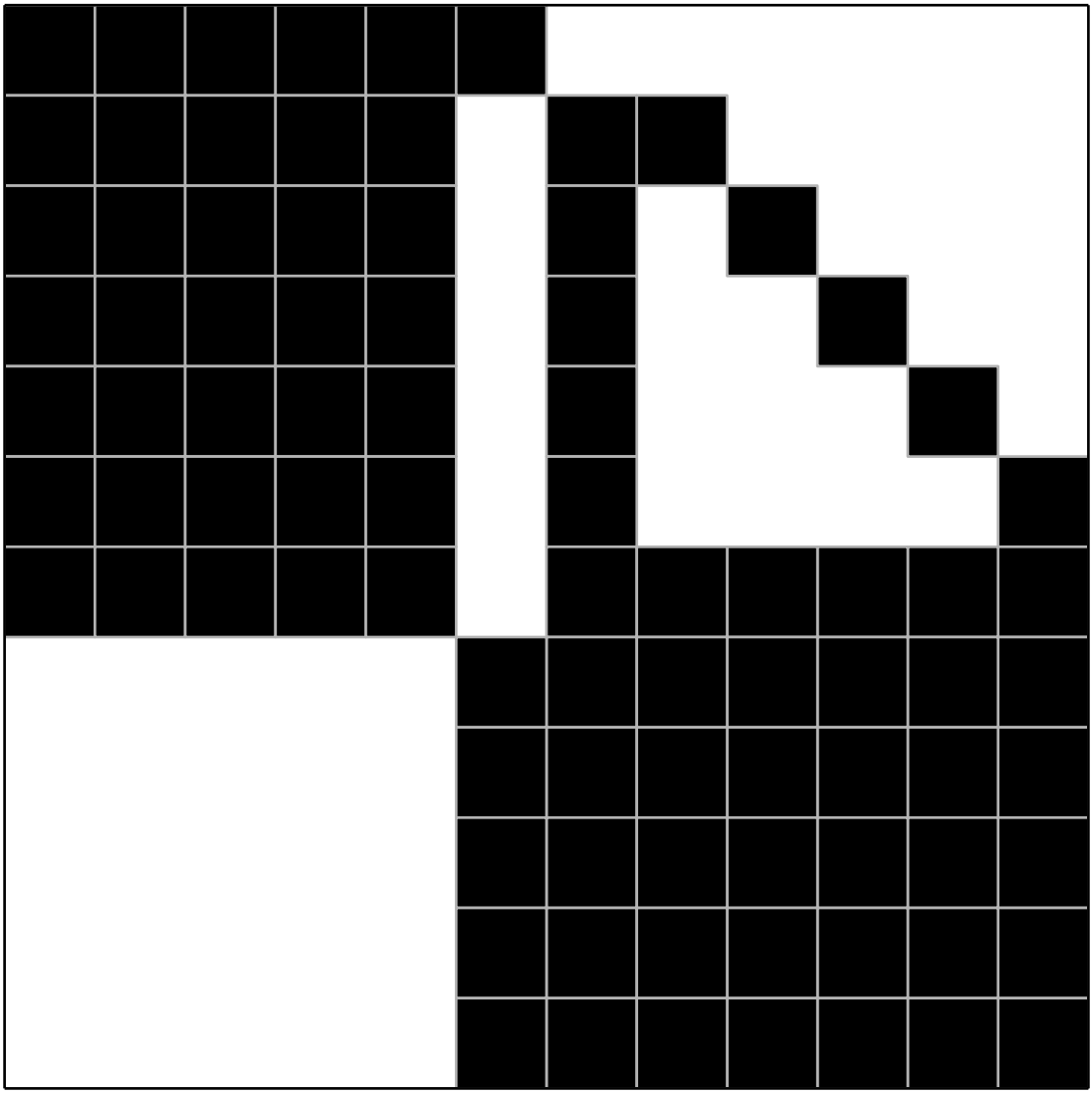
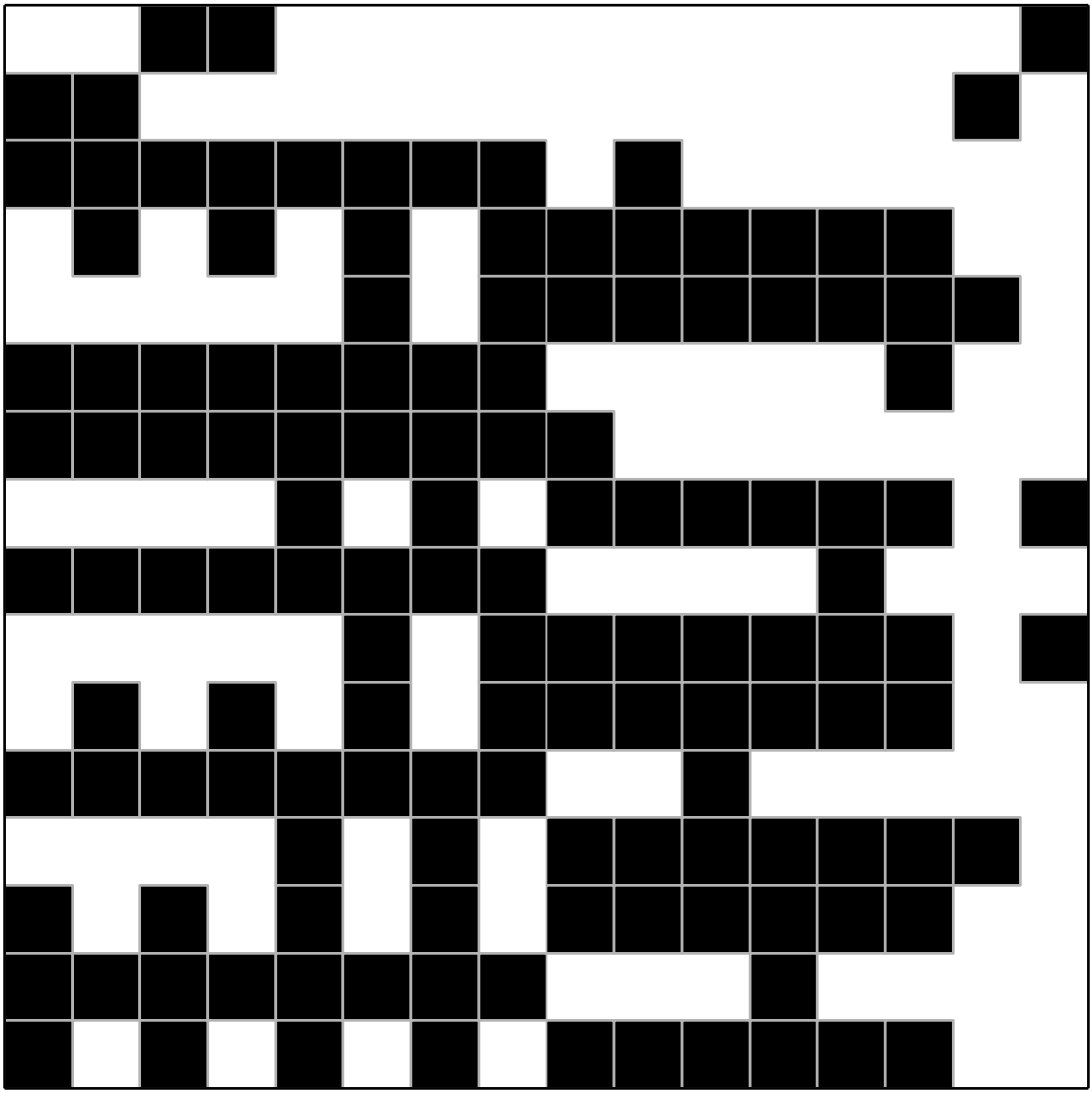
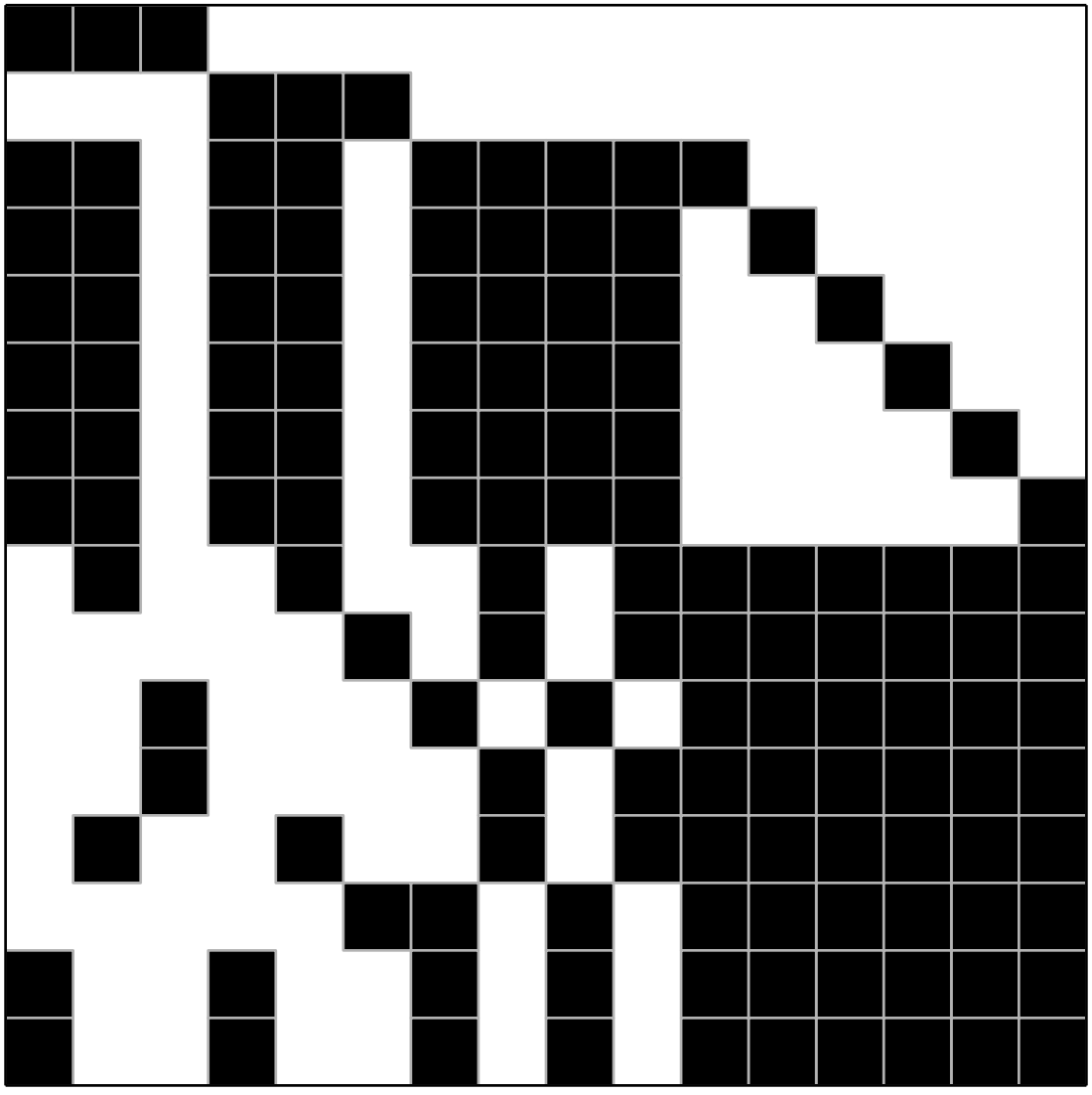


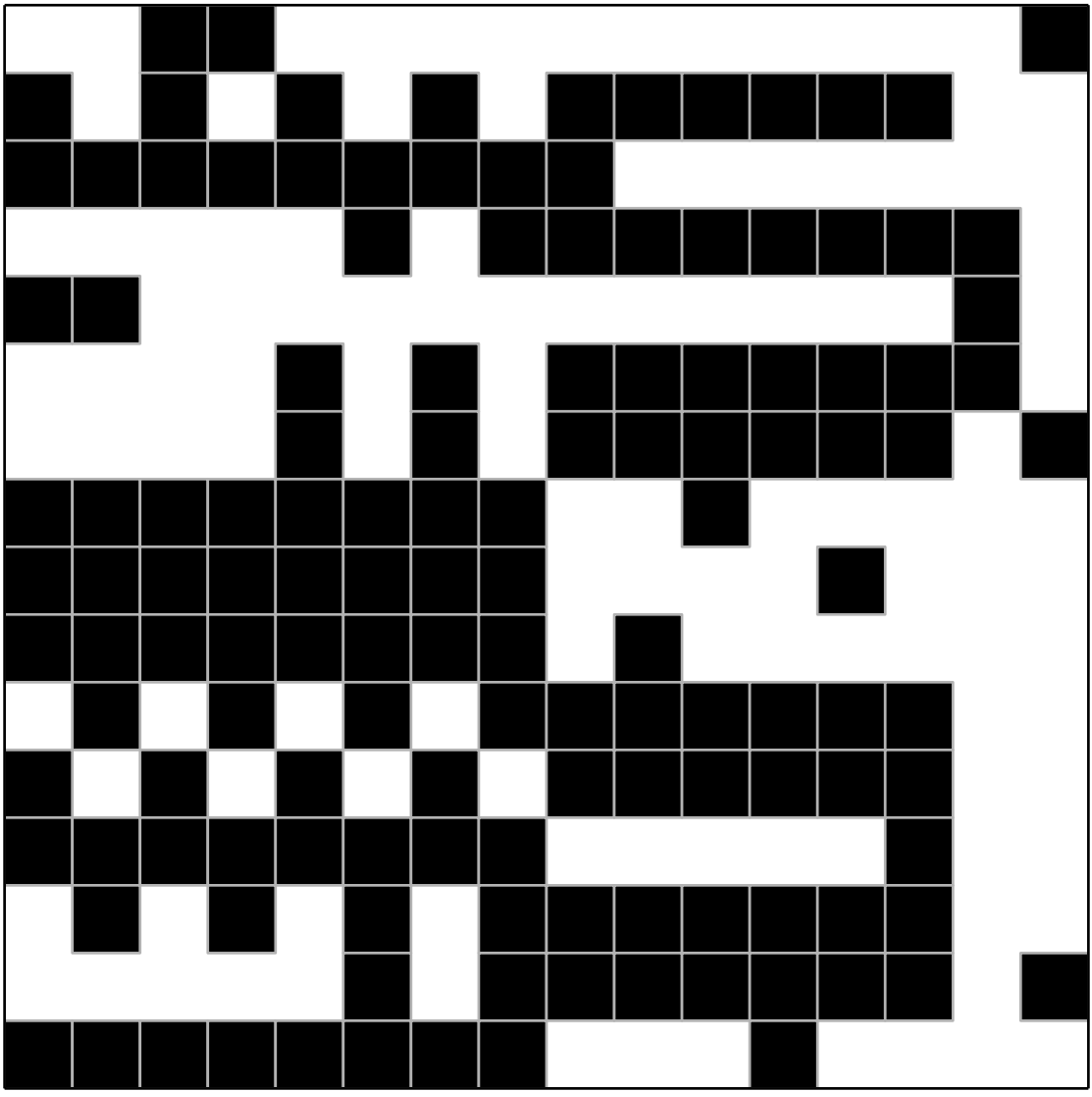
lib3_heart-00 16x16 (136) con: 8, var: 8



lib3_heart-00, cost: 8, diff: 8, explored: 5, time: 0.00s



lib3_heart-01 16x16 (136) con: 8, var: 8



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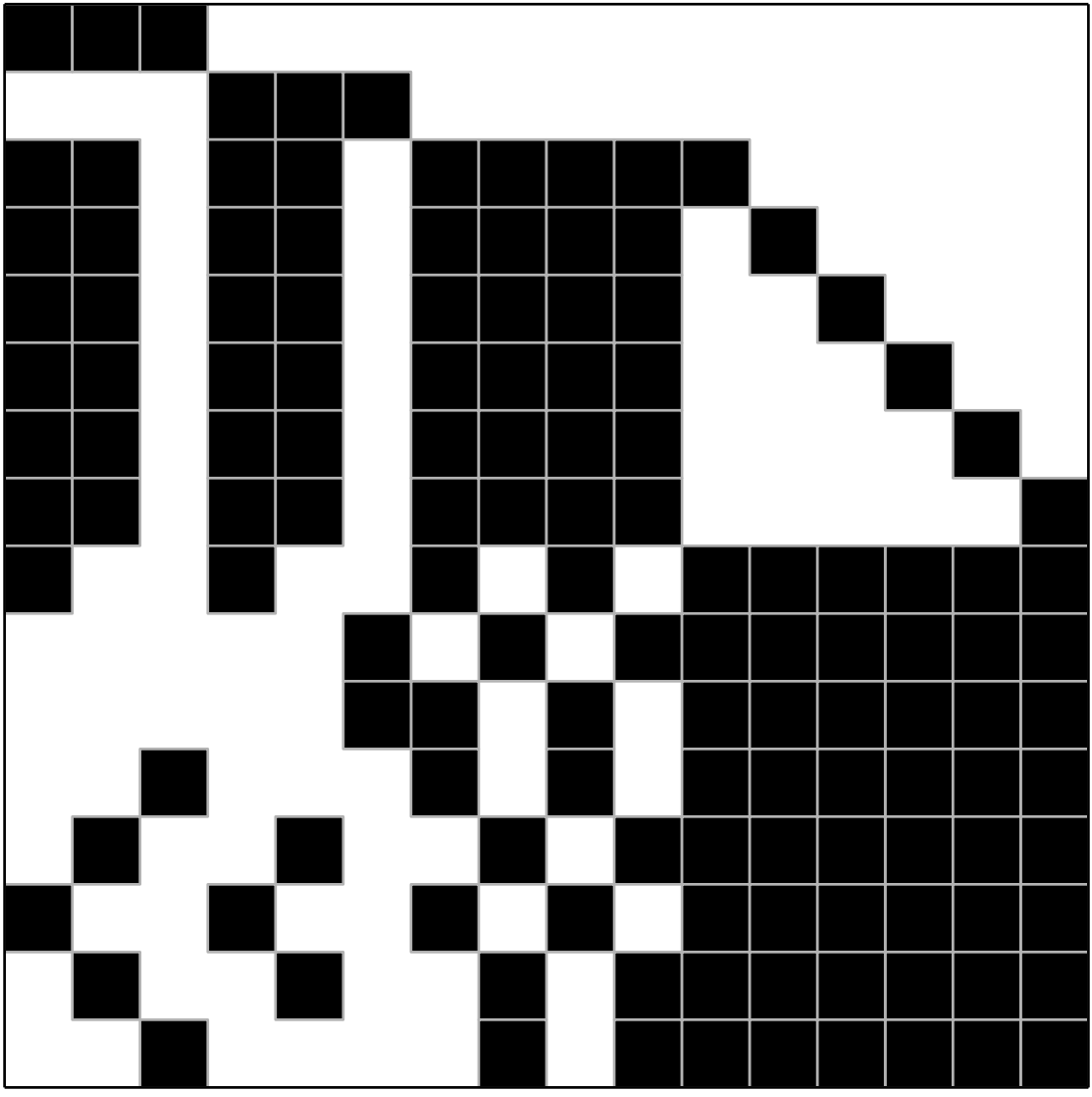
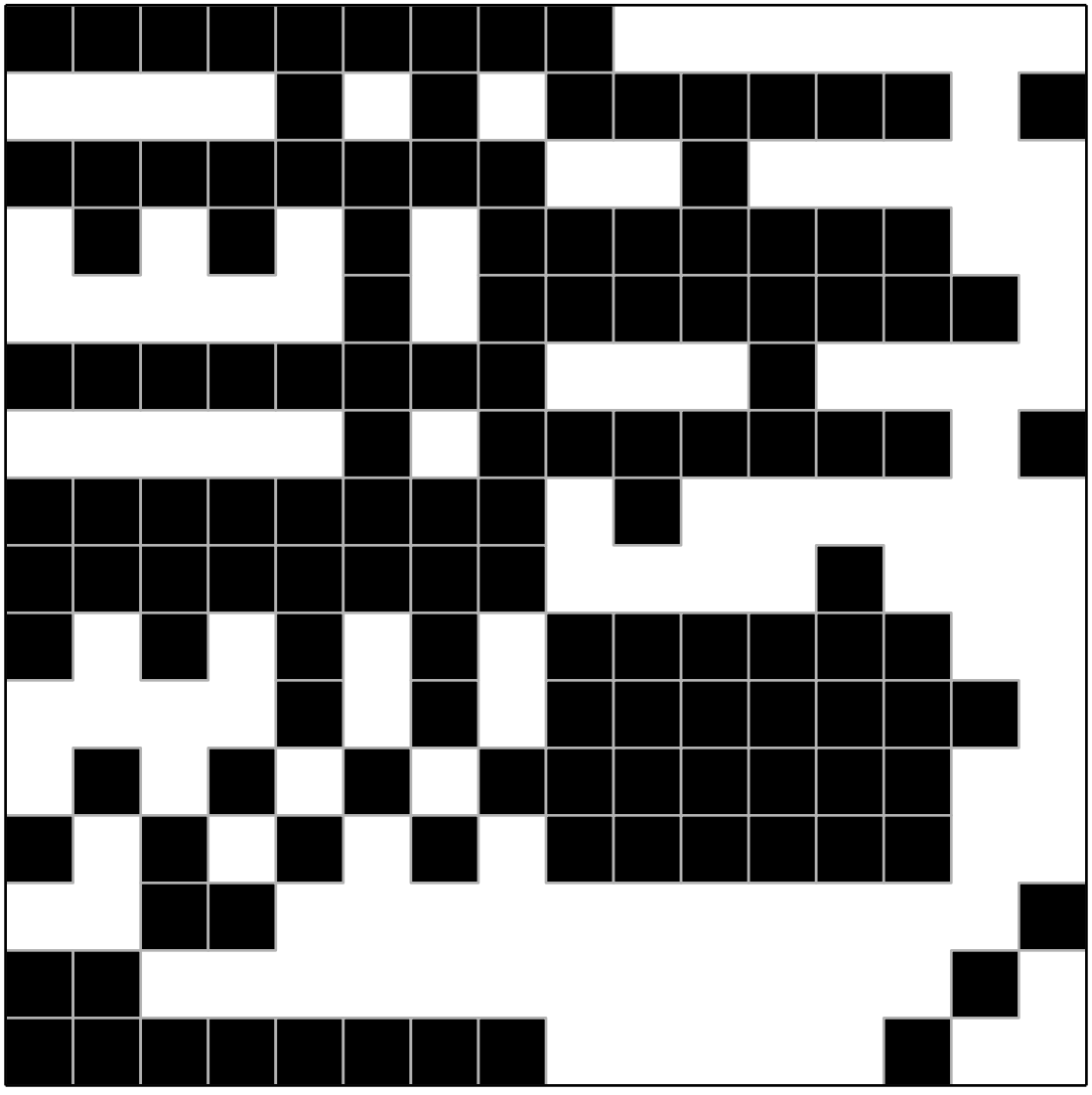
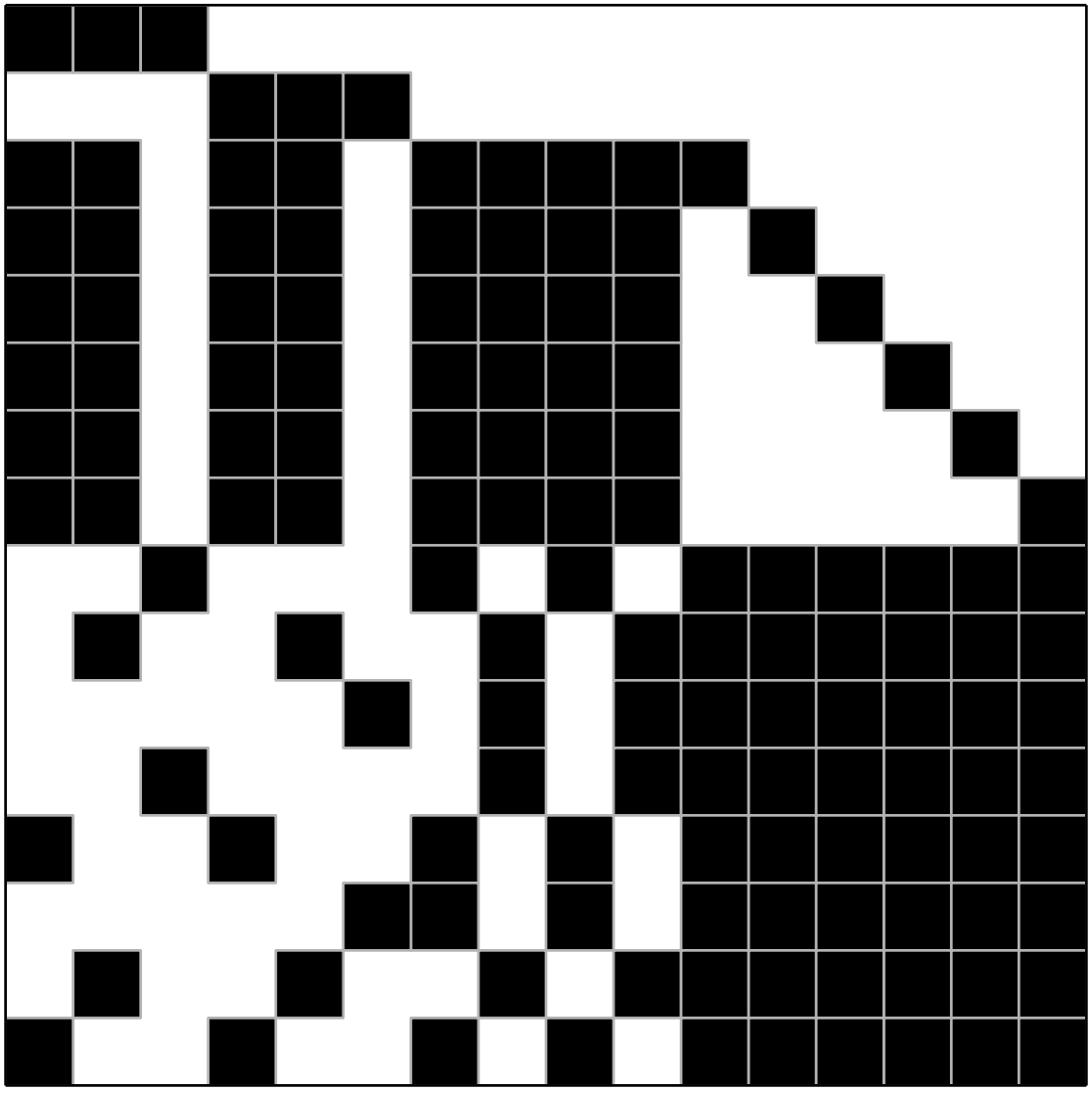


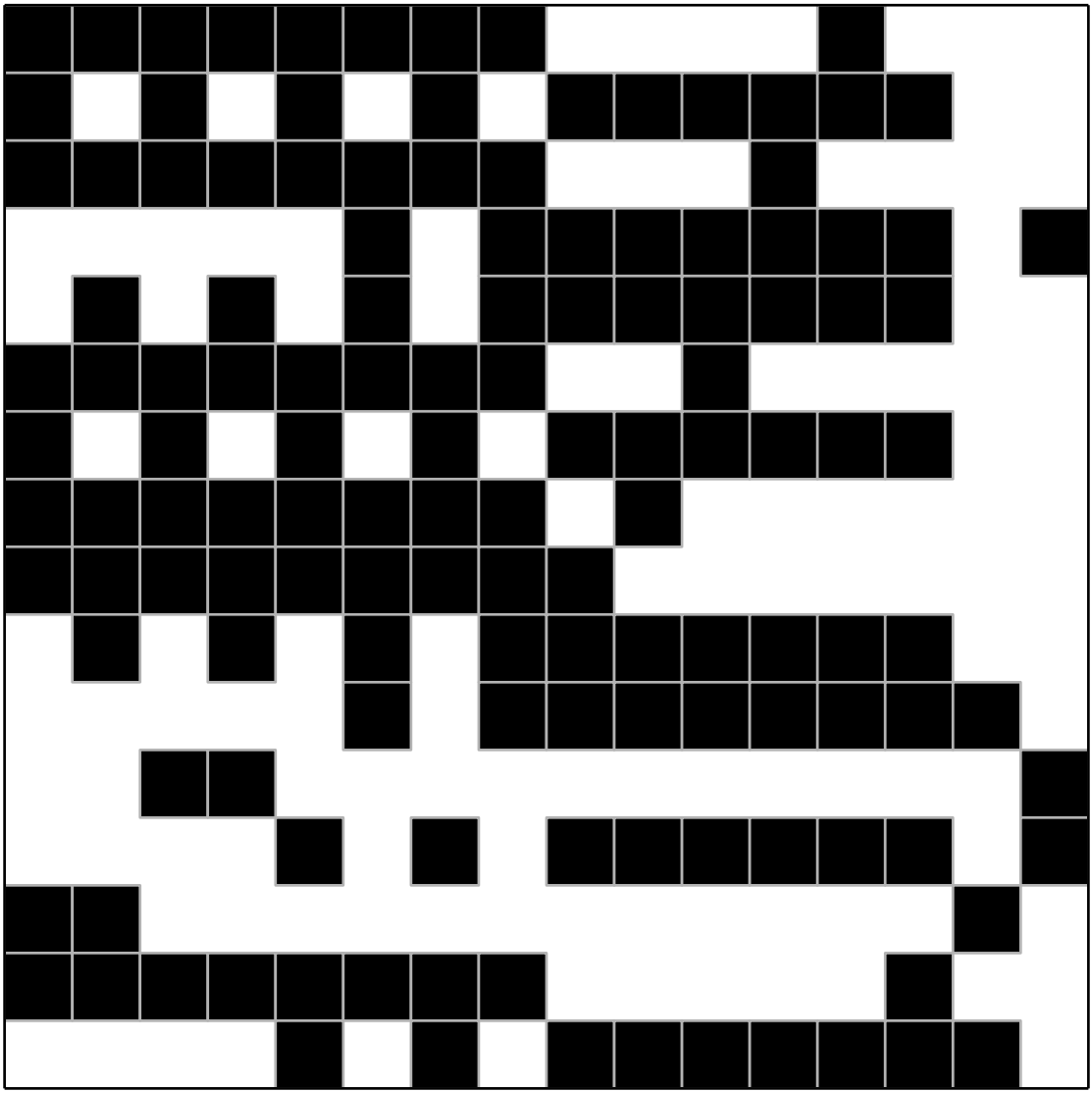
lib3_heart-02 16x16 (136) con: 8, var: 8



lib3_heart-02, cost: 8, diff: 8, explored: 5, time: 0.00s



lib3_heart-03 16x16 (136) con: 8, var: 8



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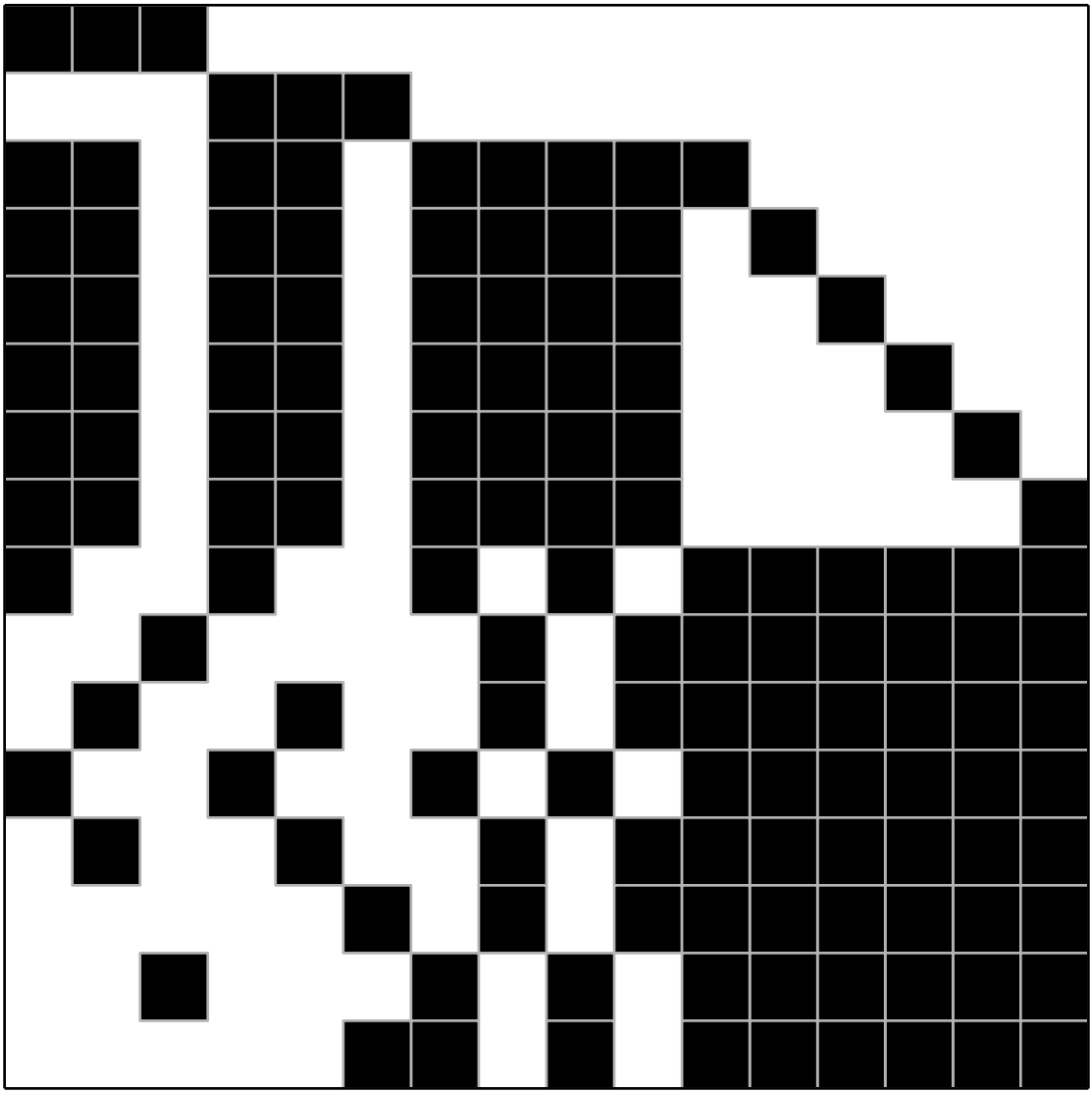
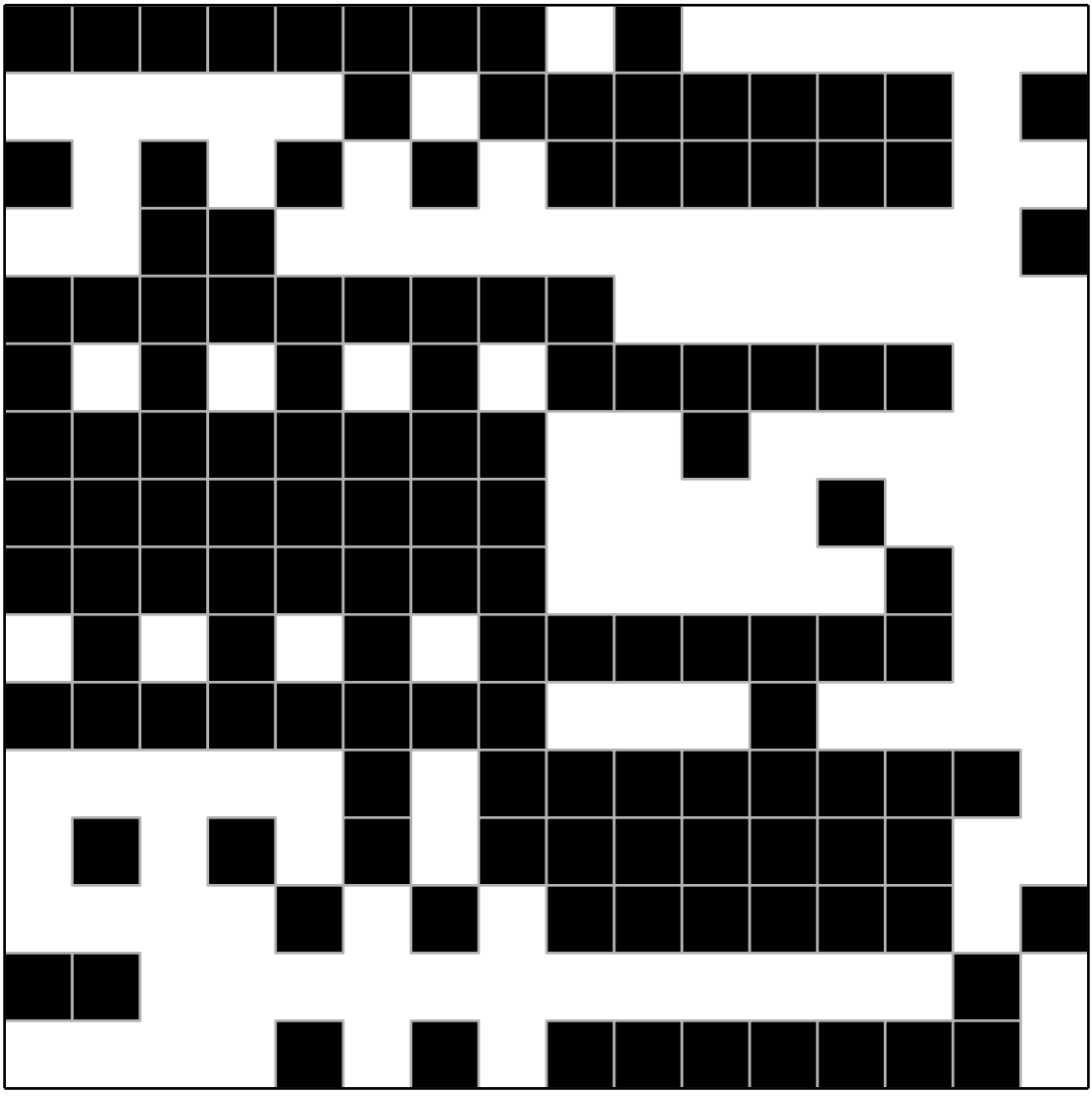


lib3_heart-04 16x16 (136) con: 8, var: 8



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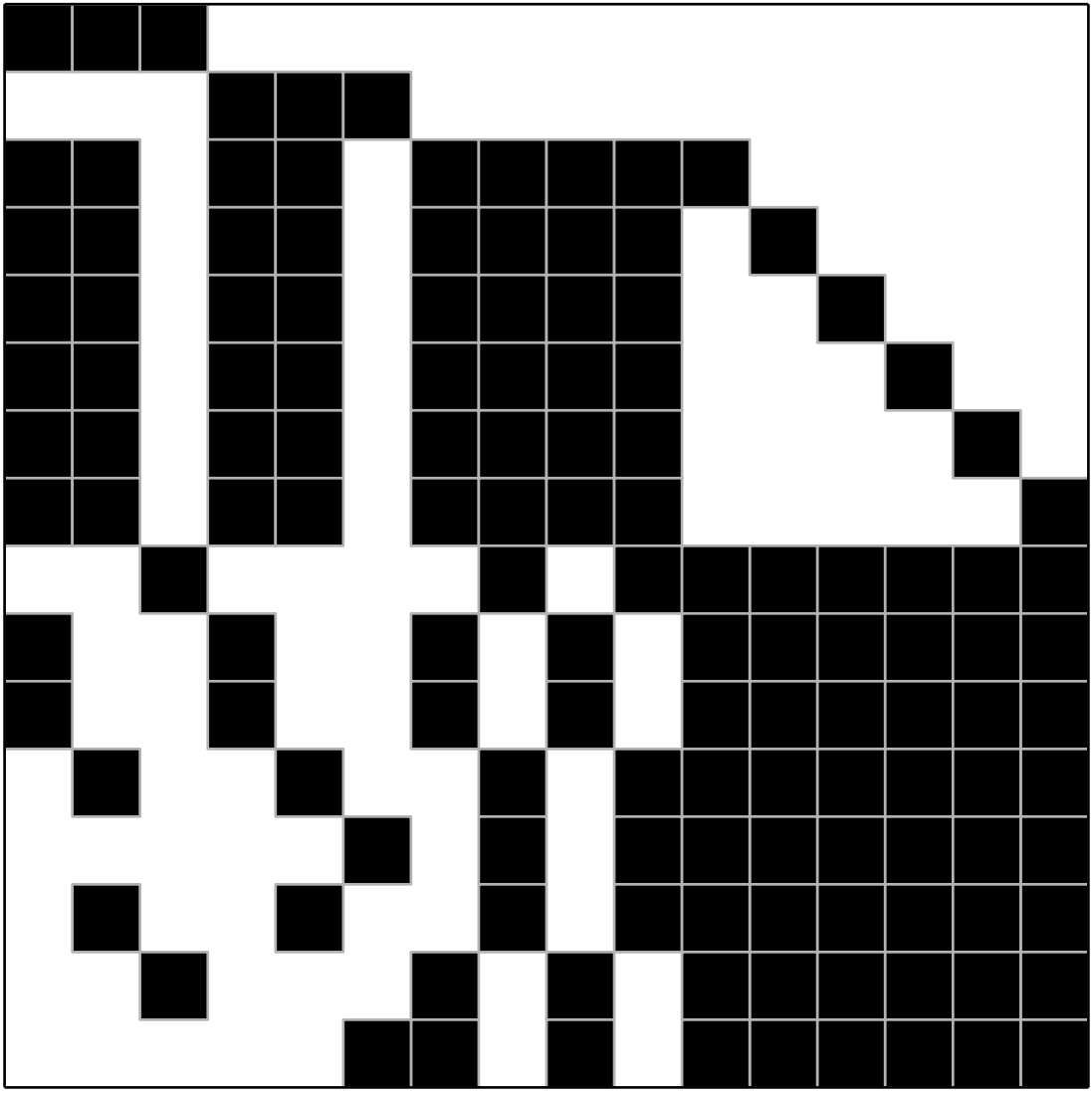

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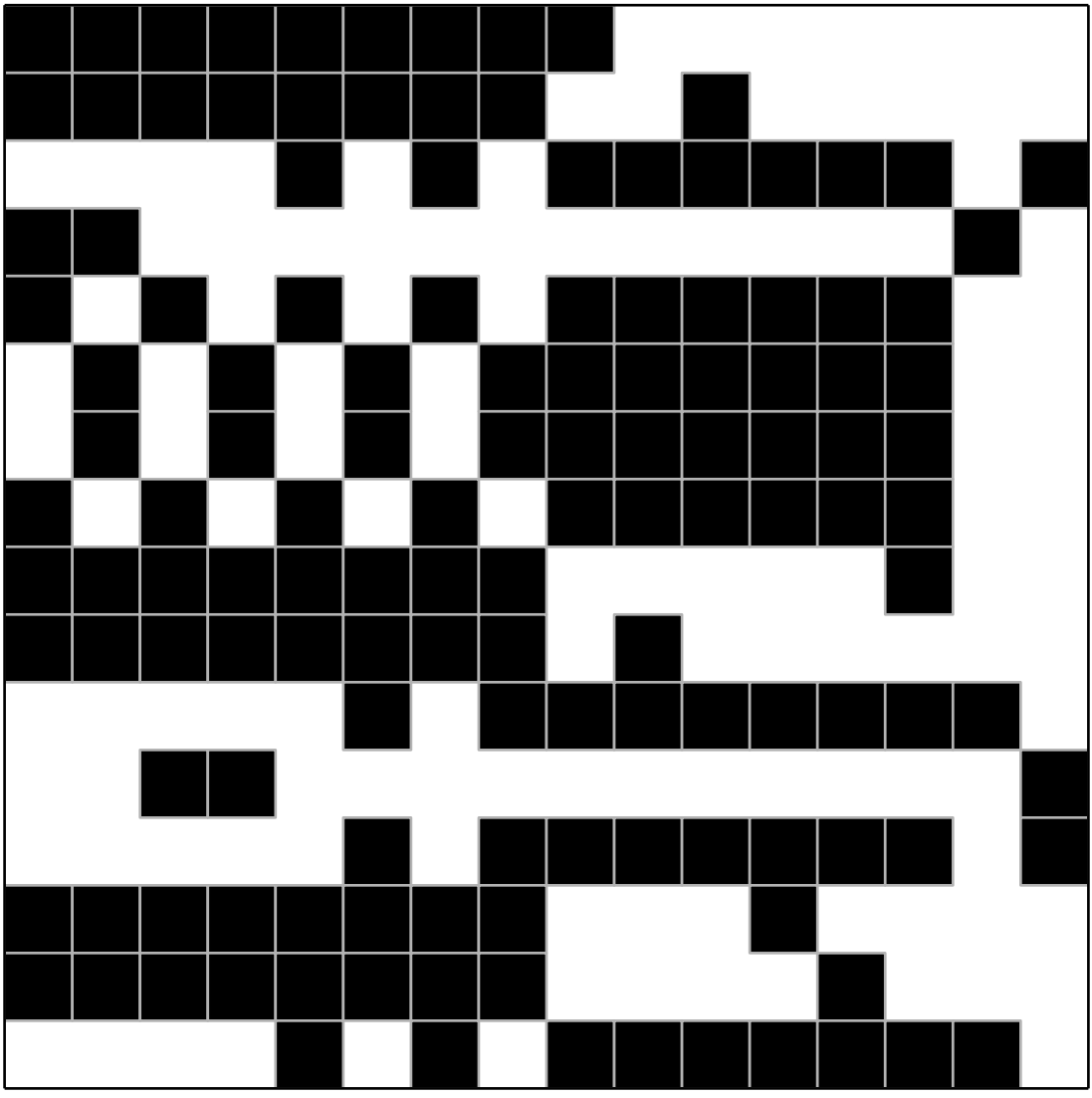

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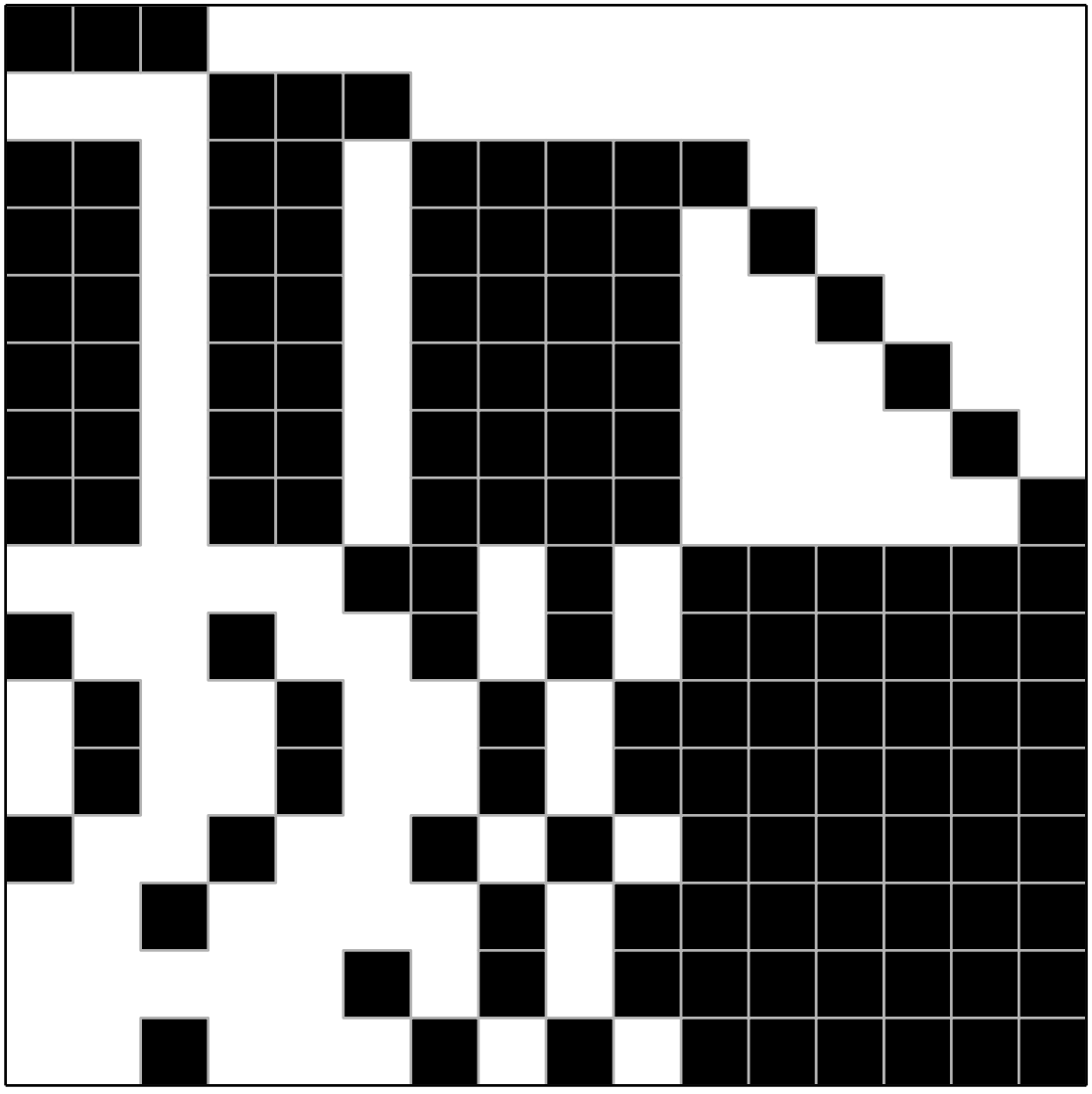

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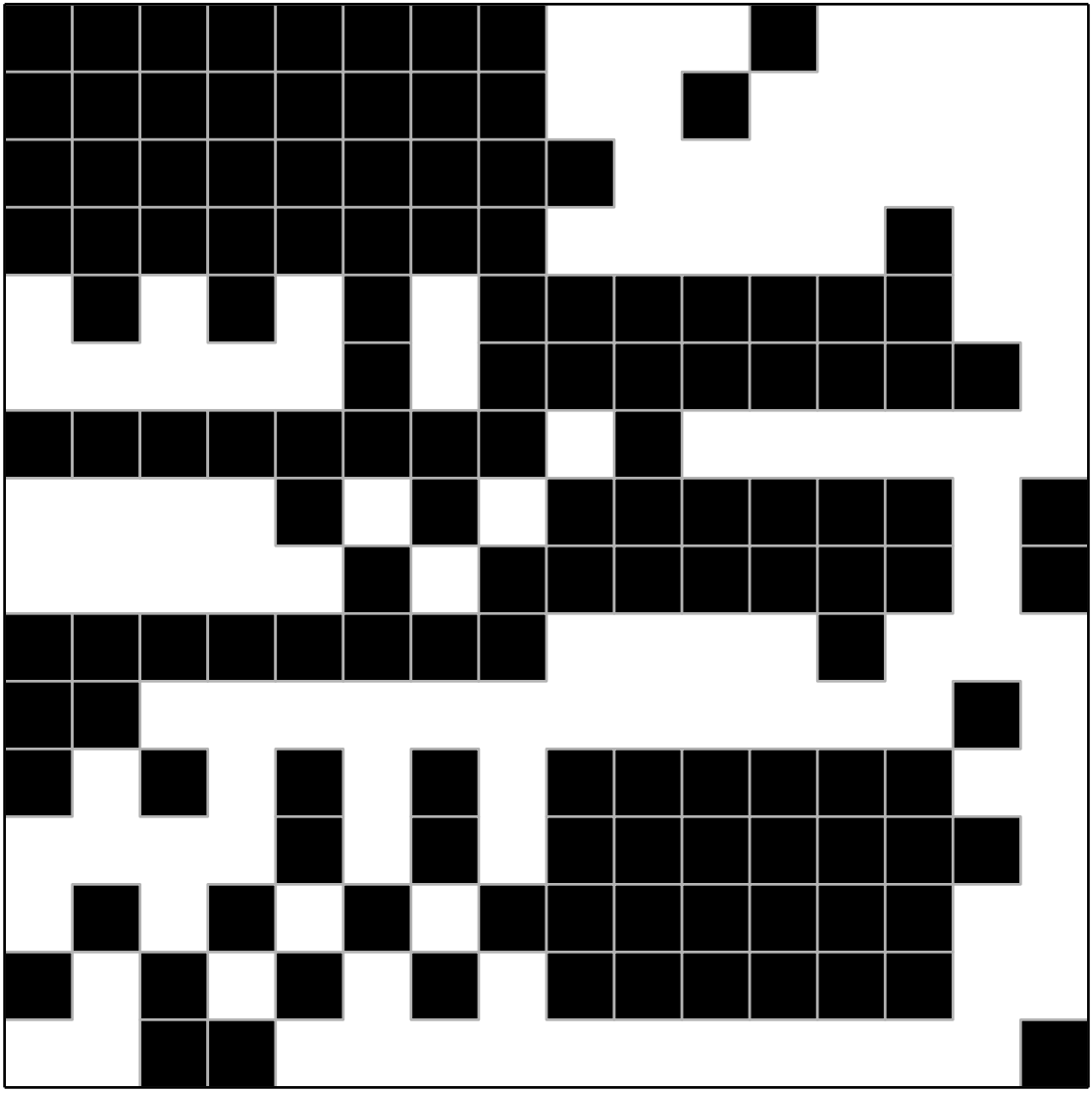

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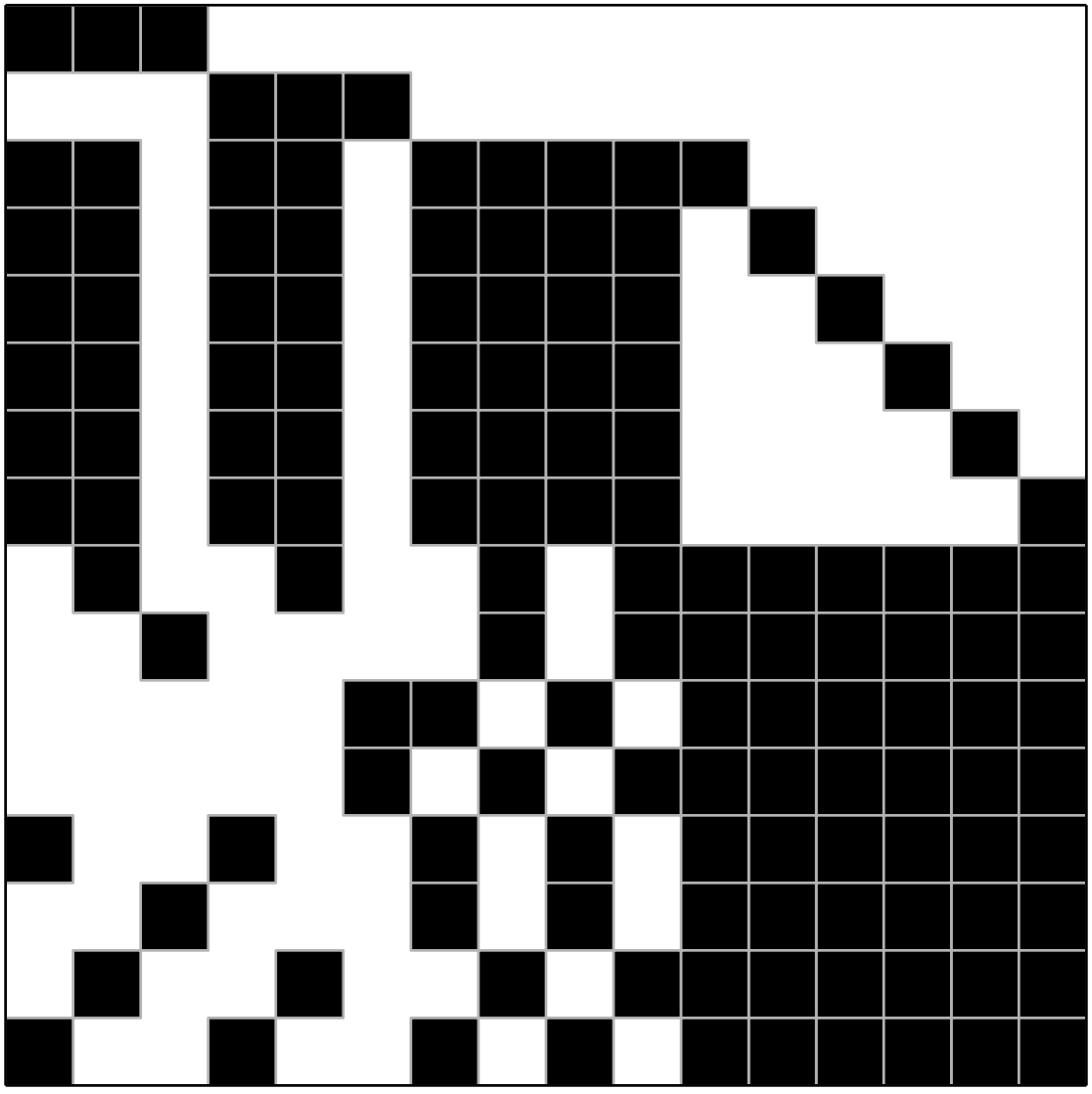
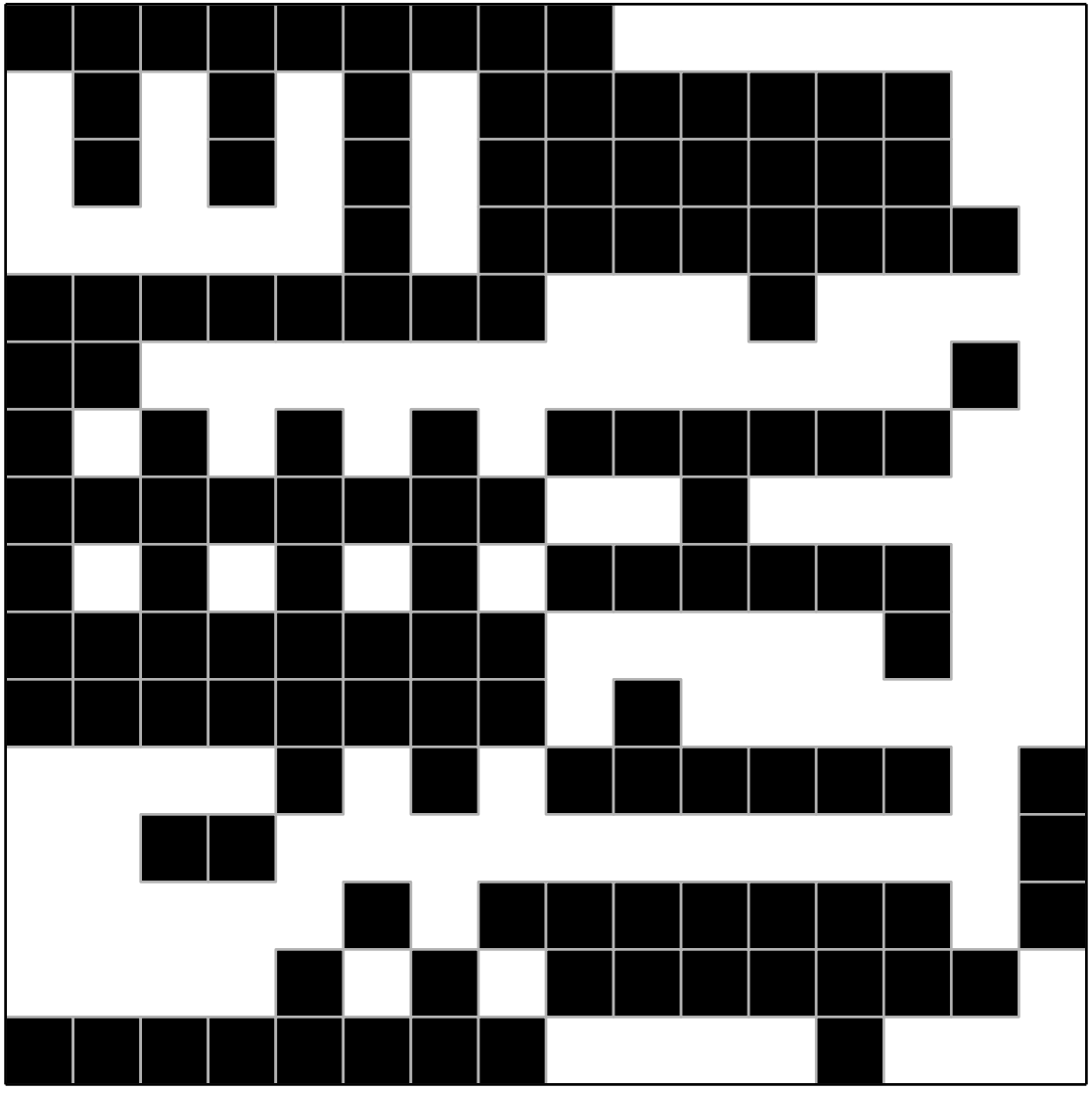


lib3_heart-07 16x16 (136) con: 8, var: 8



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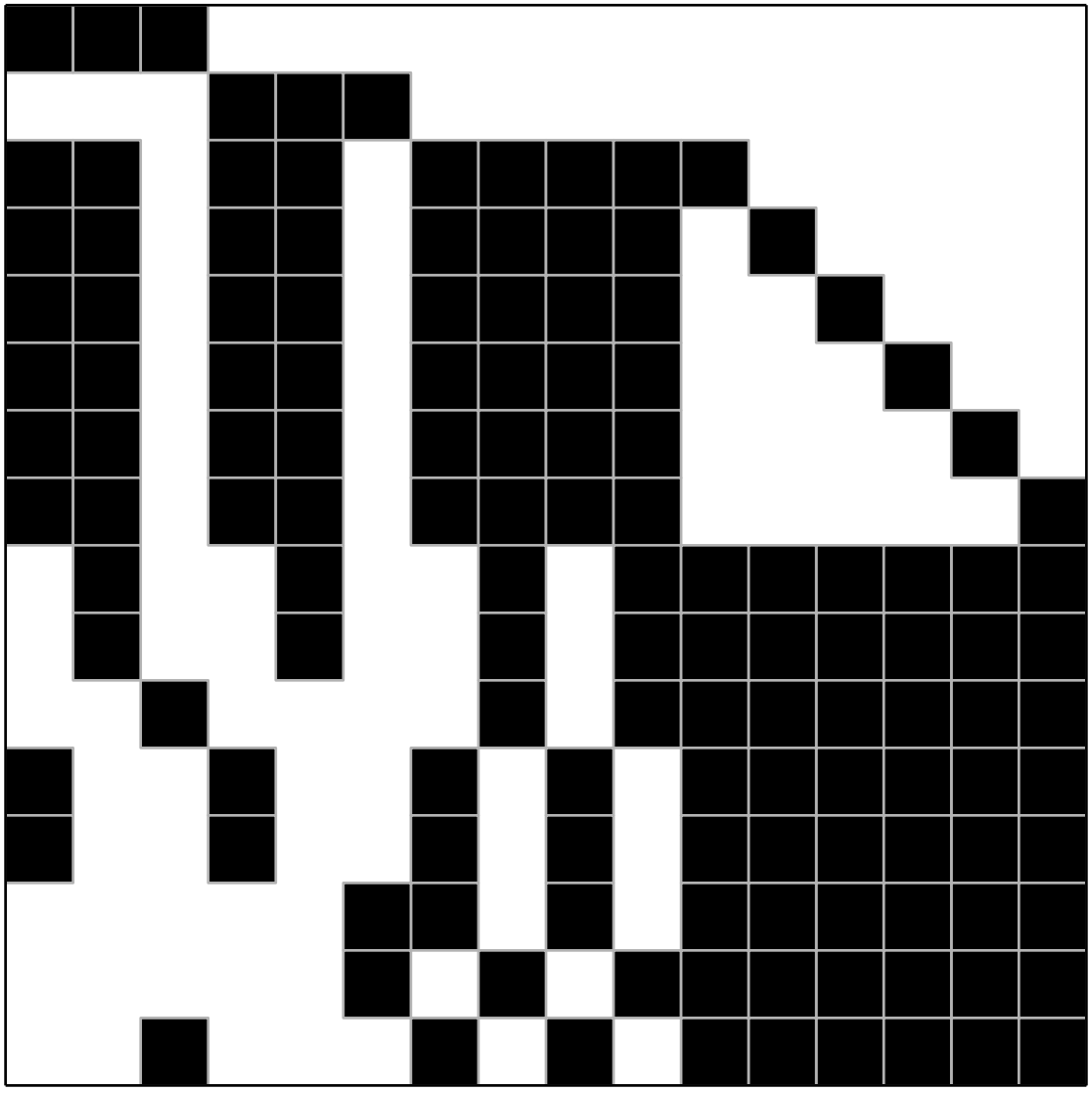
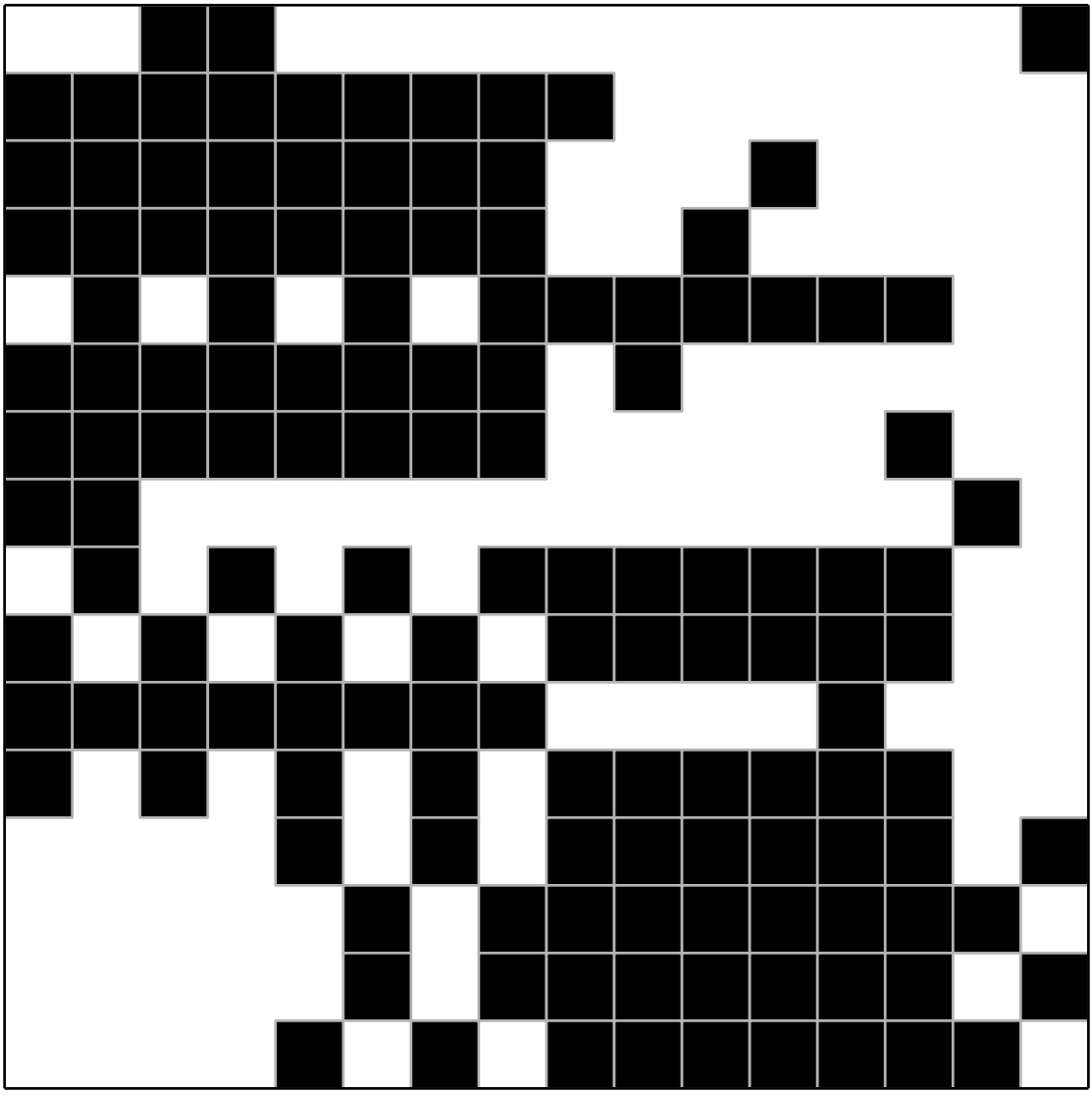


lib3_heart-08 16x16 (136) con: 8, var: 8



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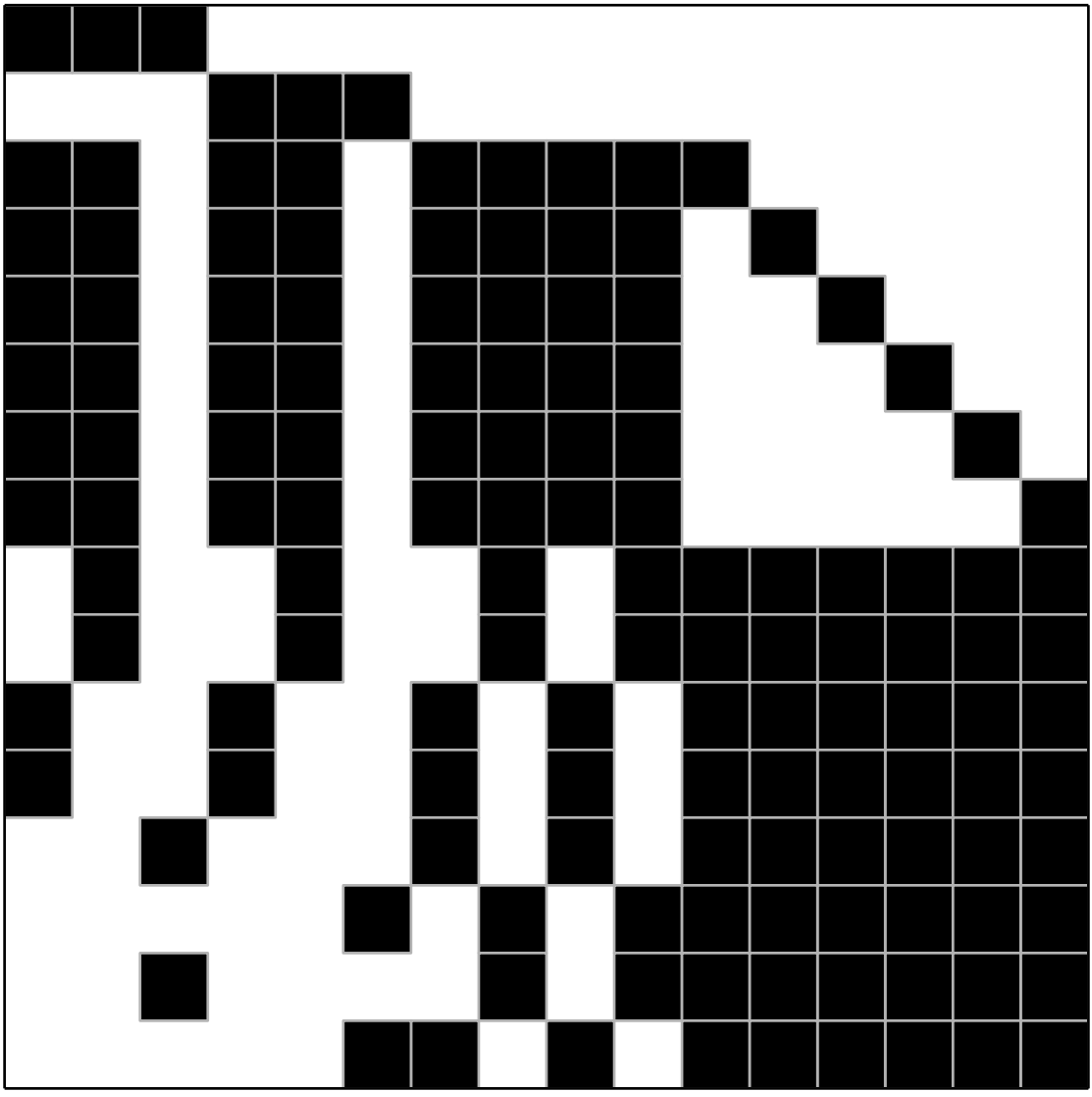
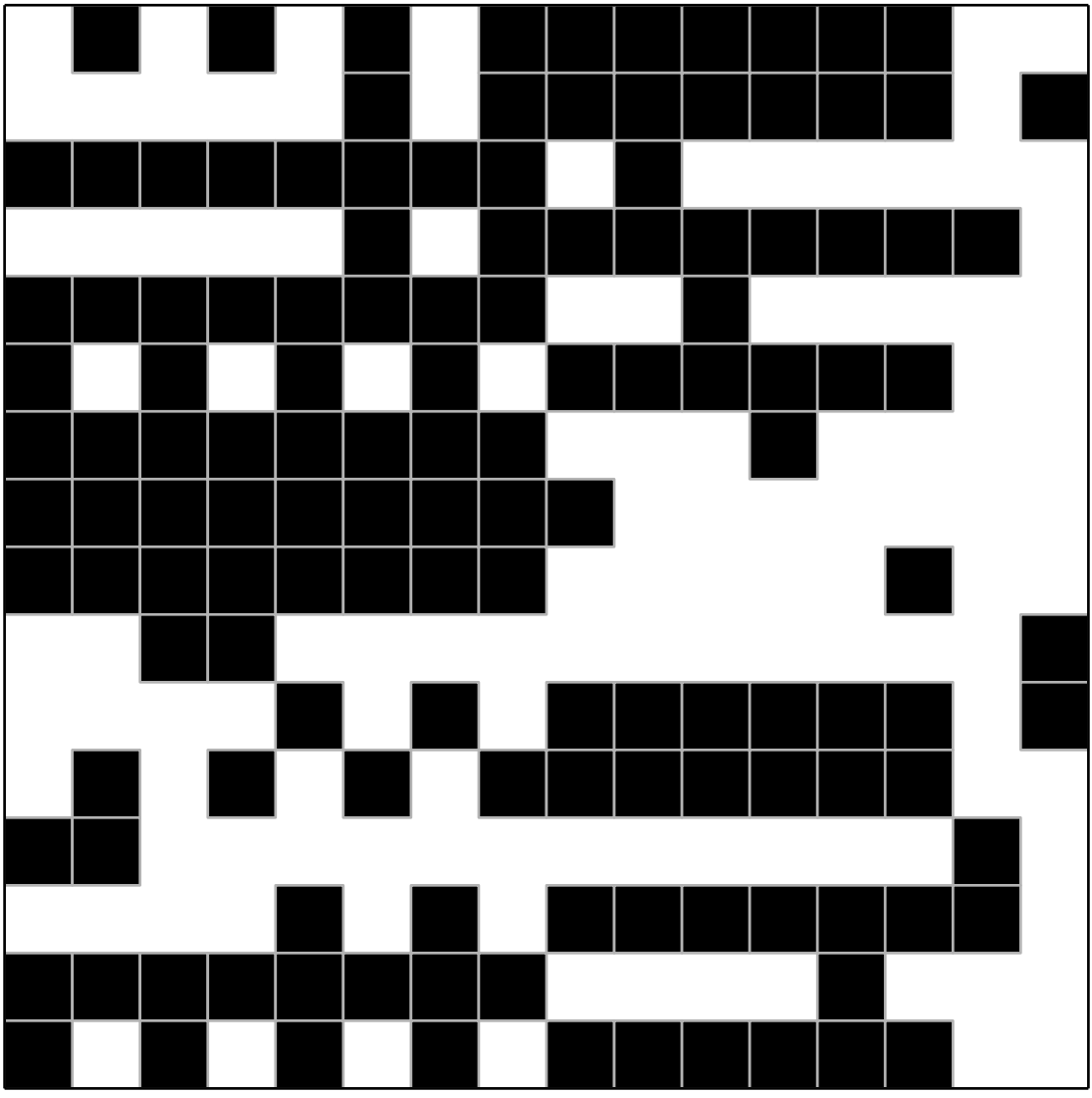


lib3_heart-09 16x16 (136) con: 8, var: 8



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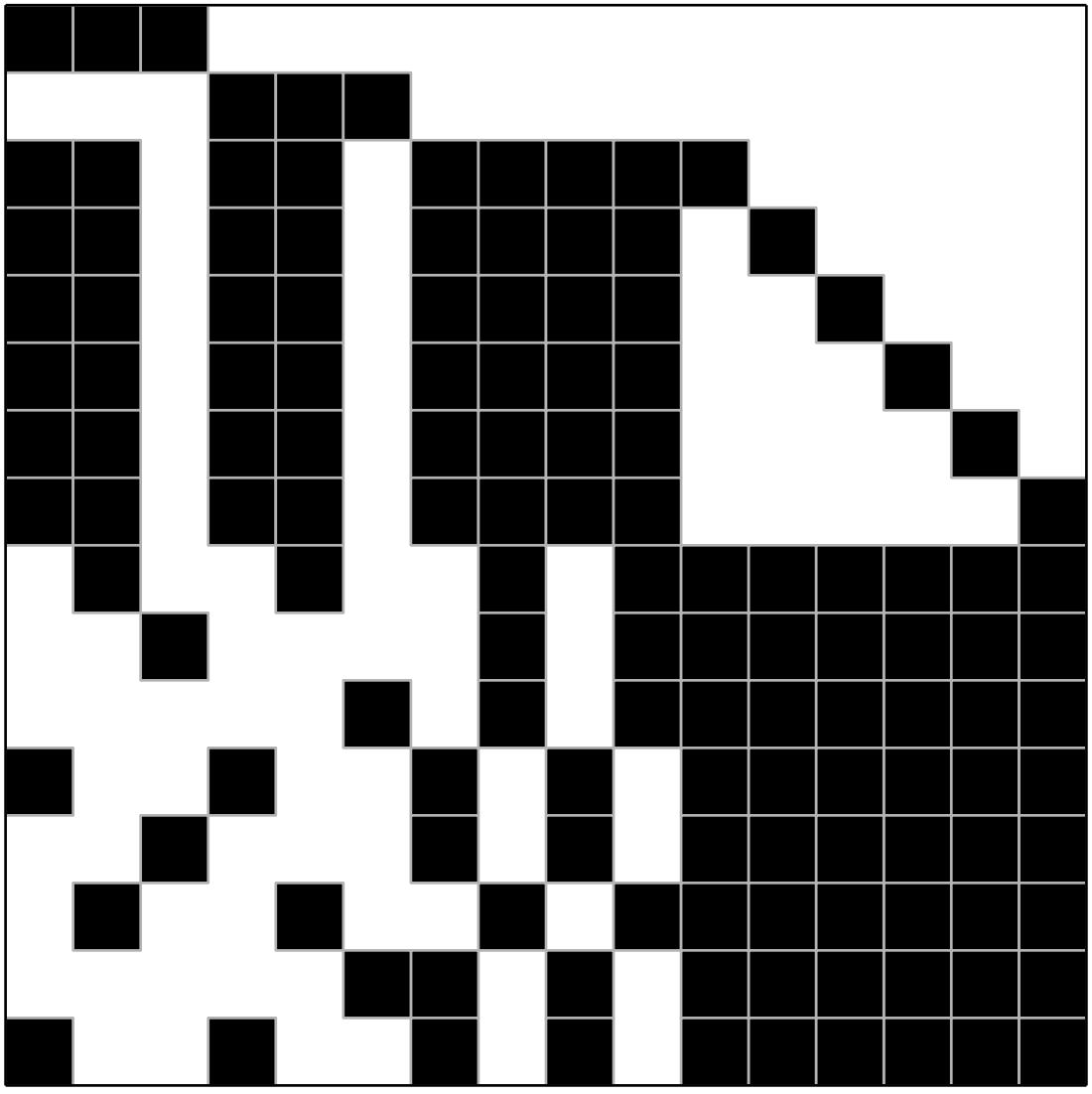

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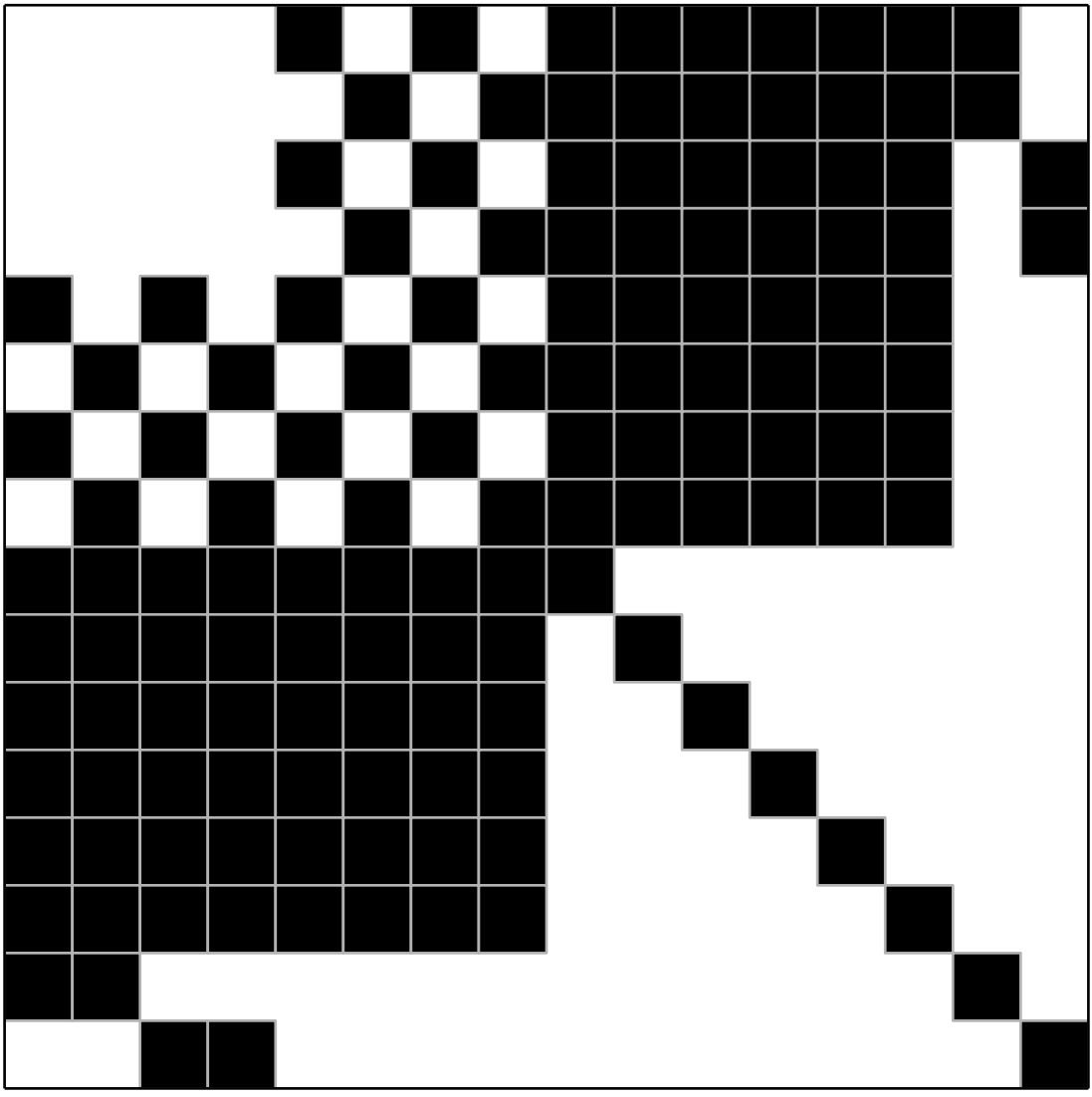

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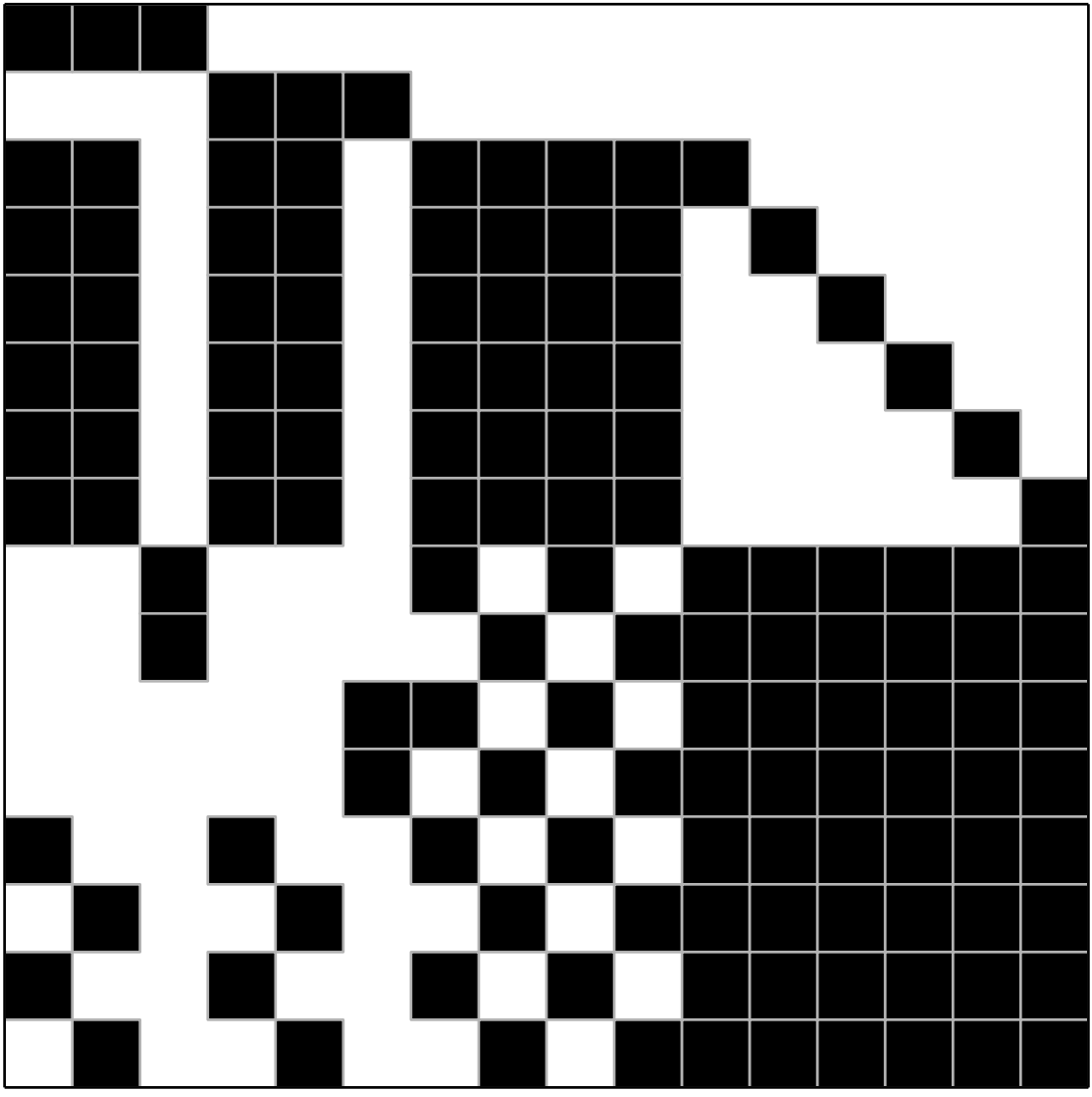

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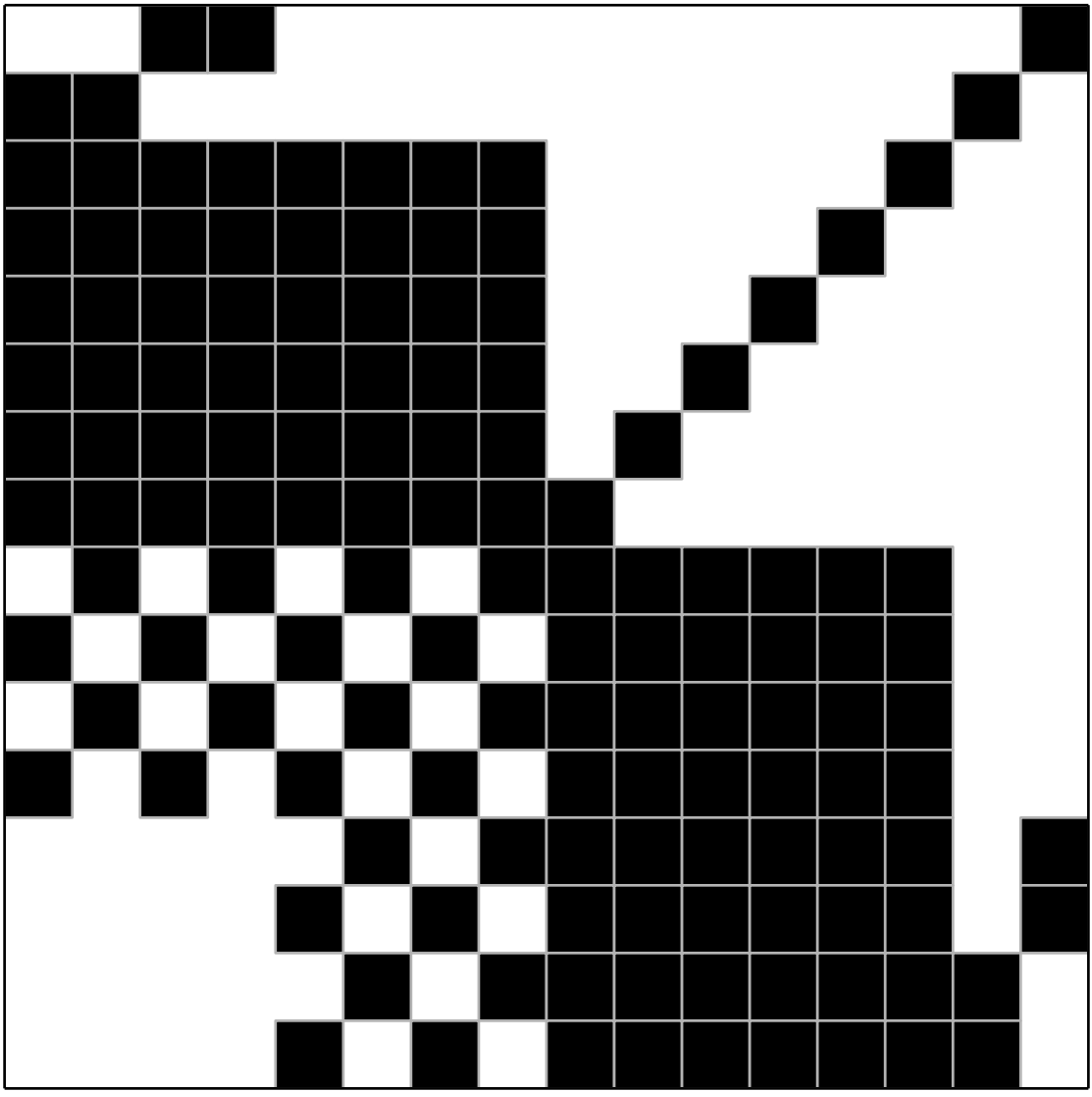

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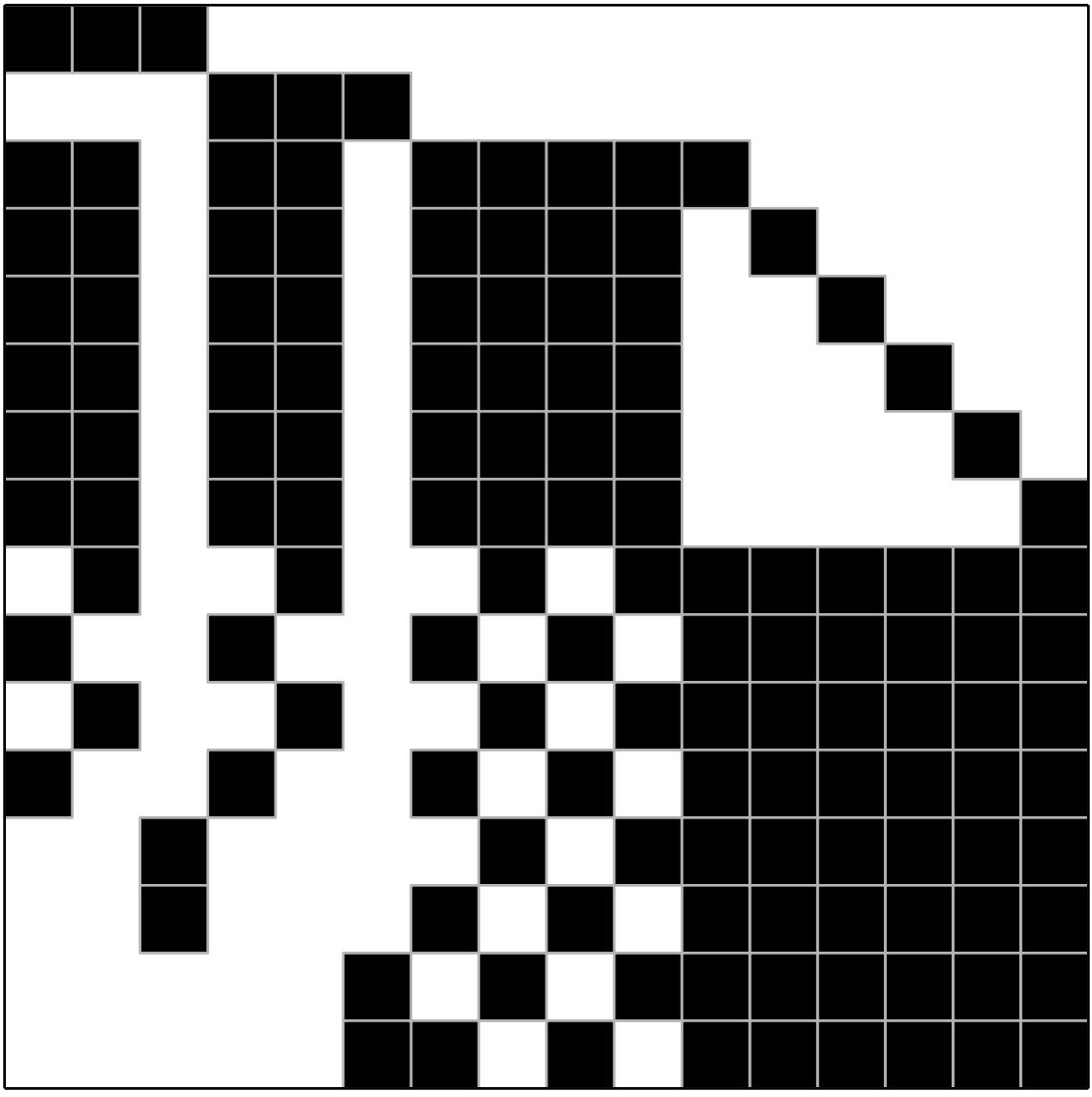
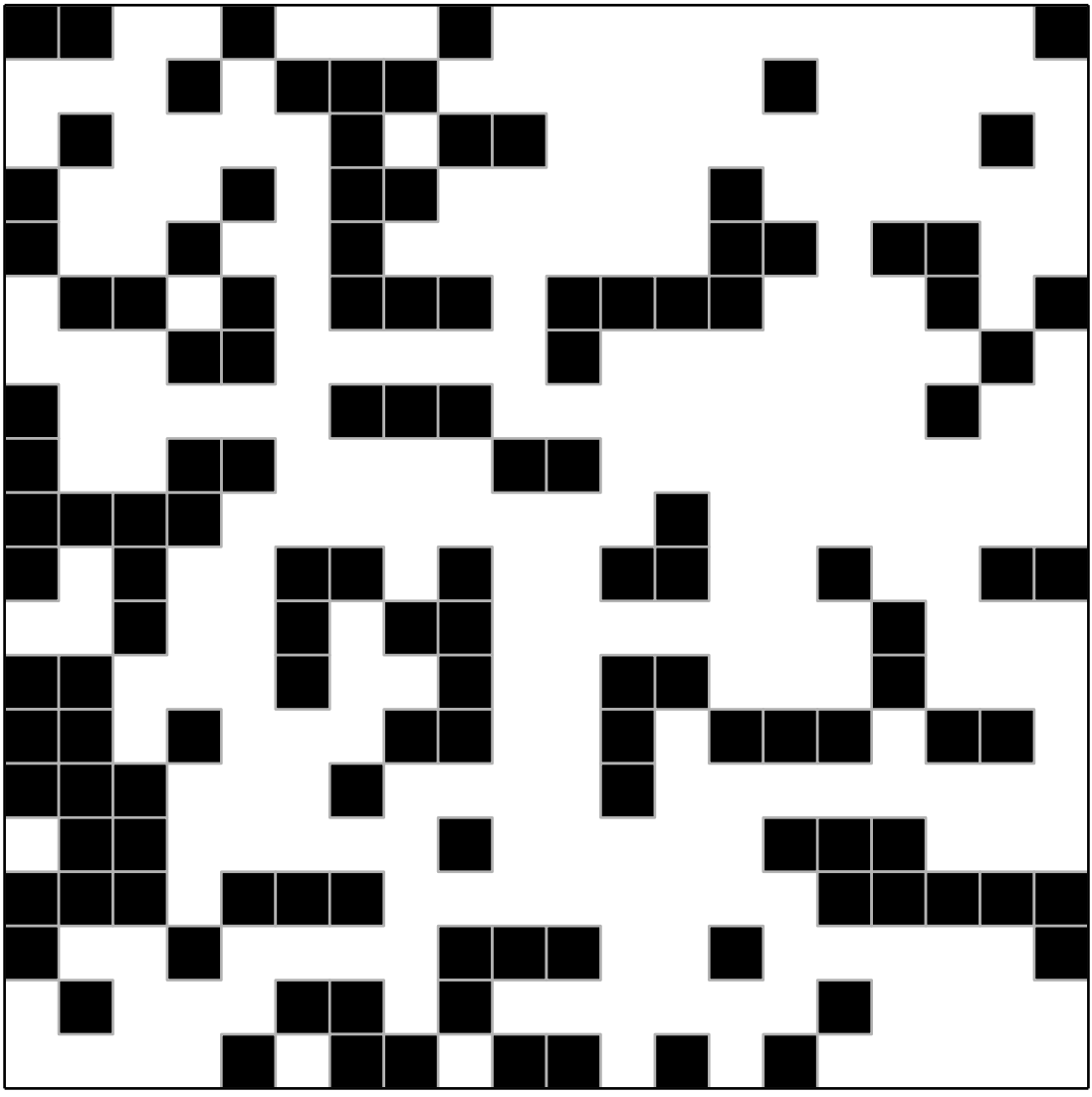
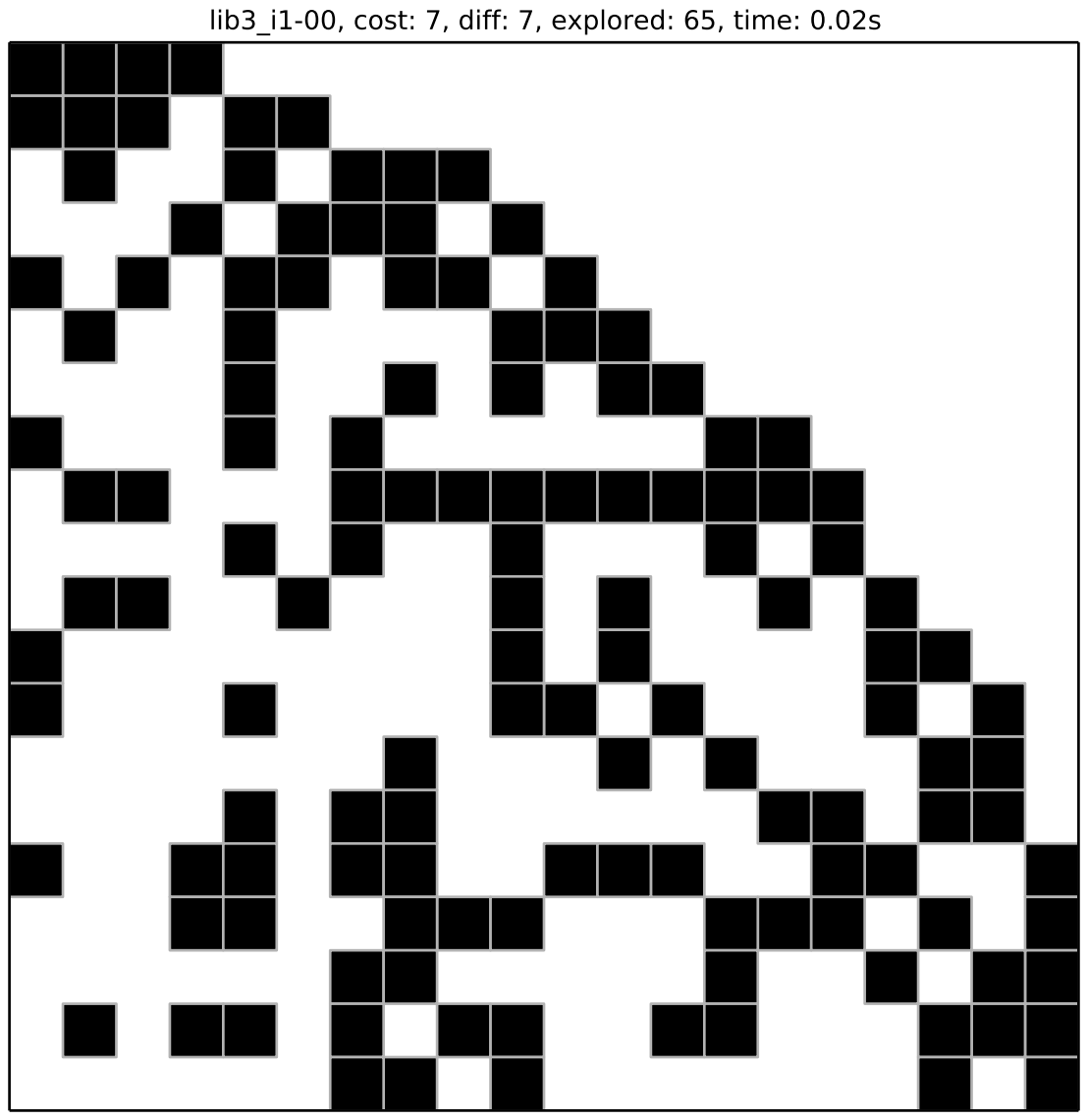
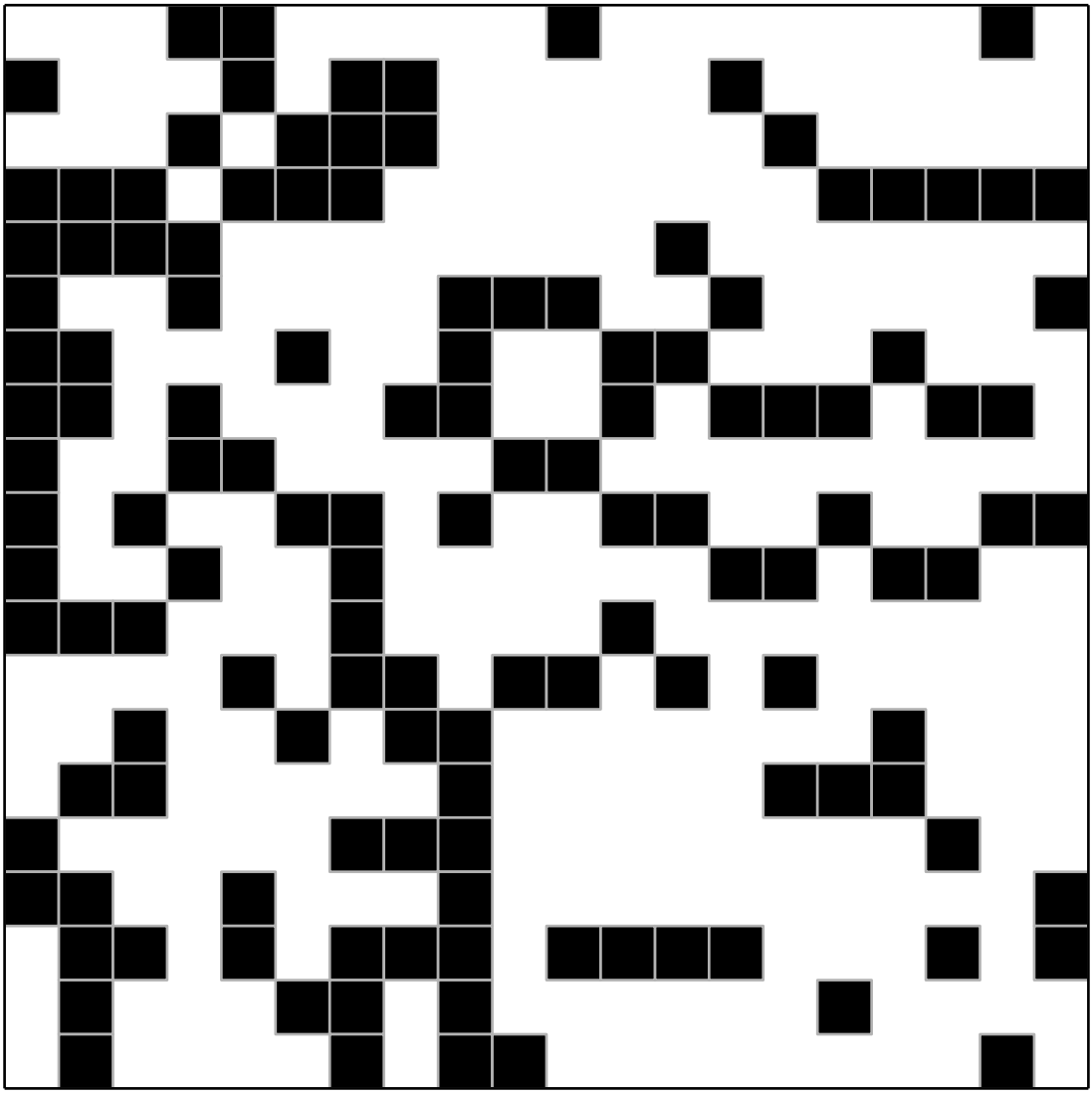


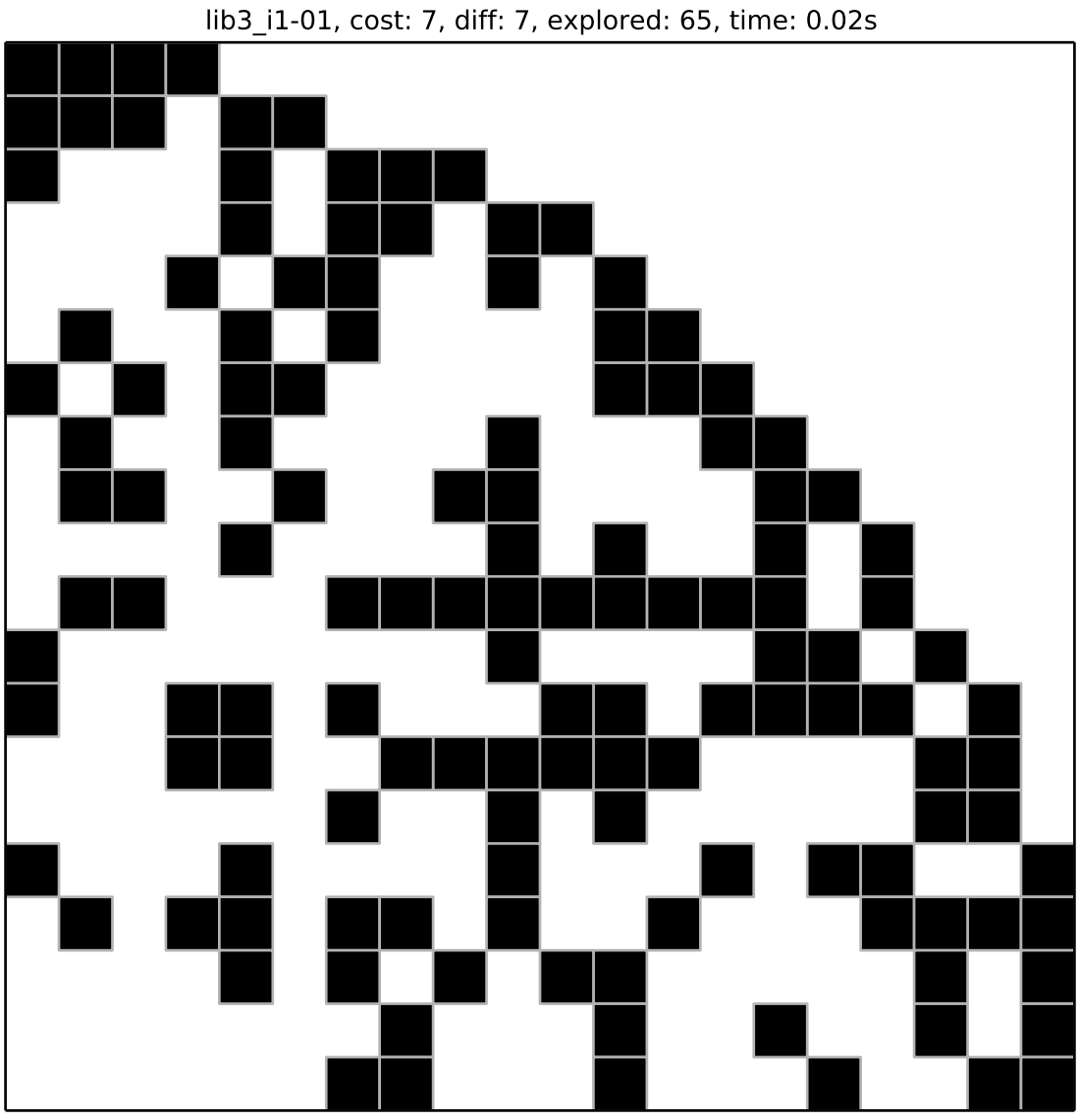
lib3_i1-00 20x20 (132) con: 10, var: 10




lib3_i1-00, cost: 7, diff: 7, explored: 65, time: 0.02s

lib3_i1-01 20x20 (132) con: 10, var: 10

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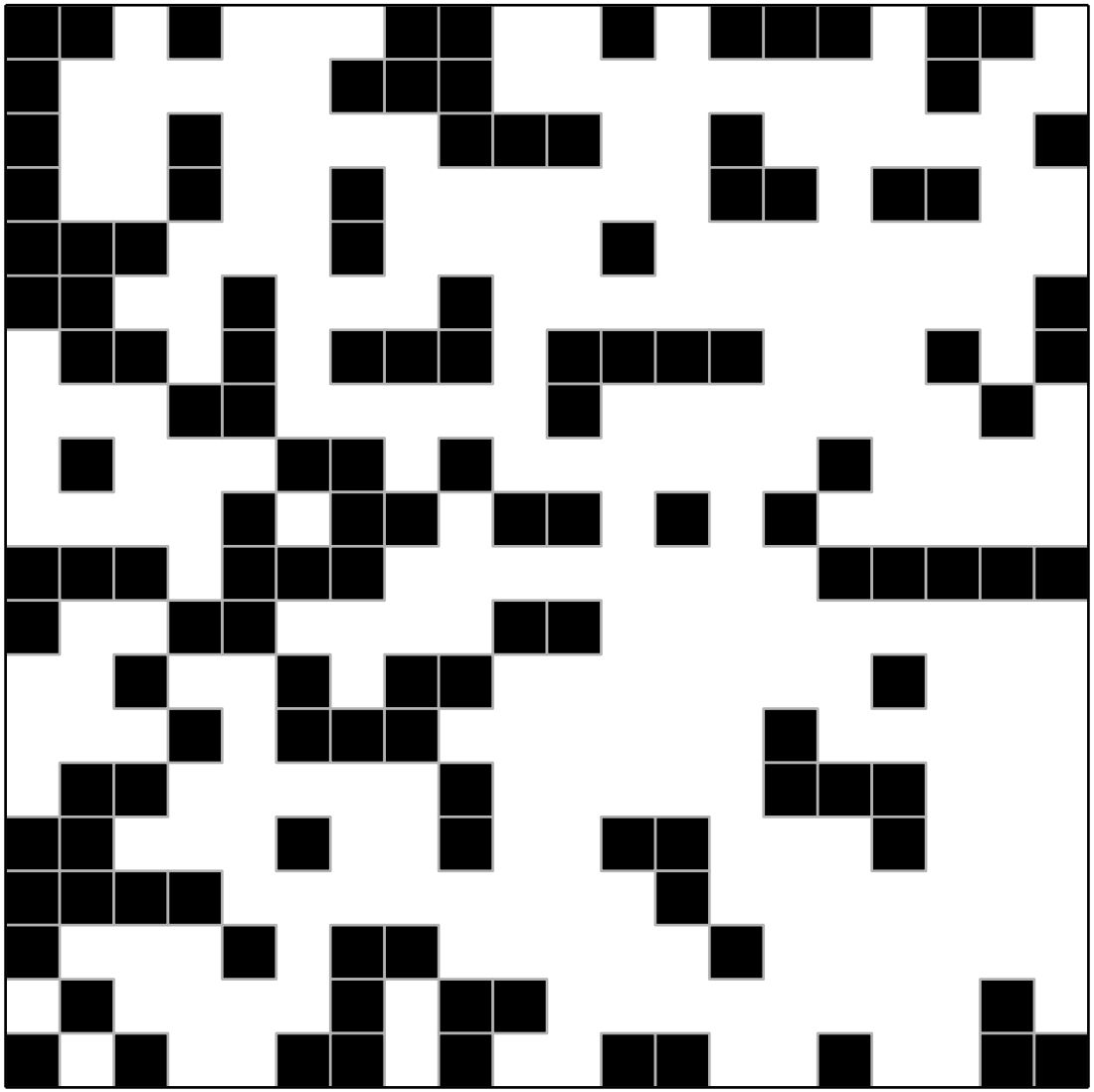
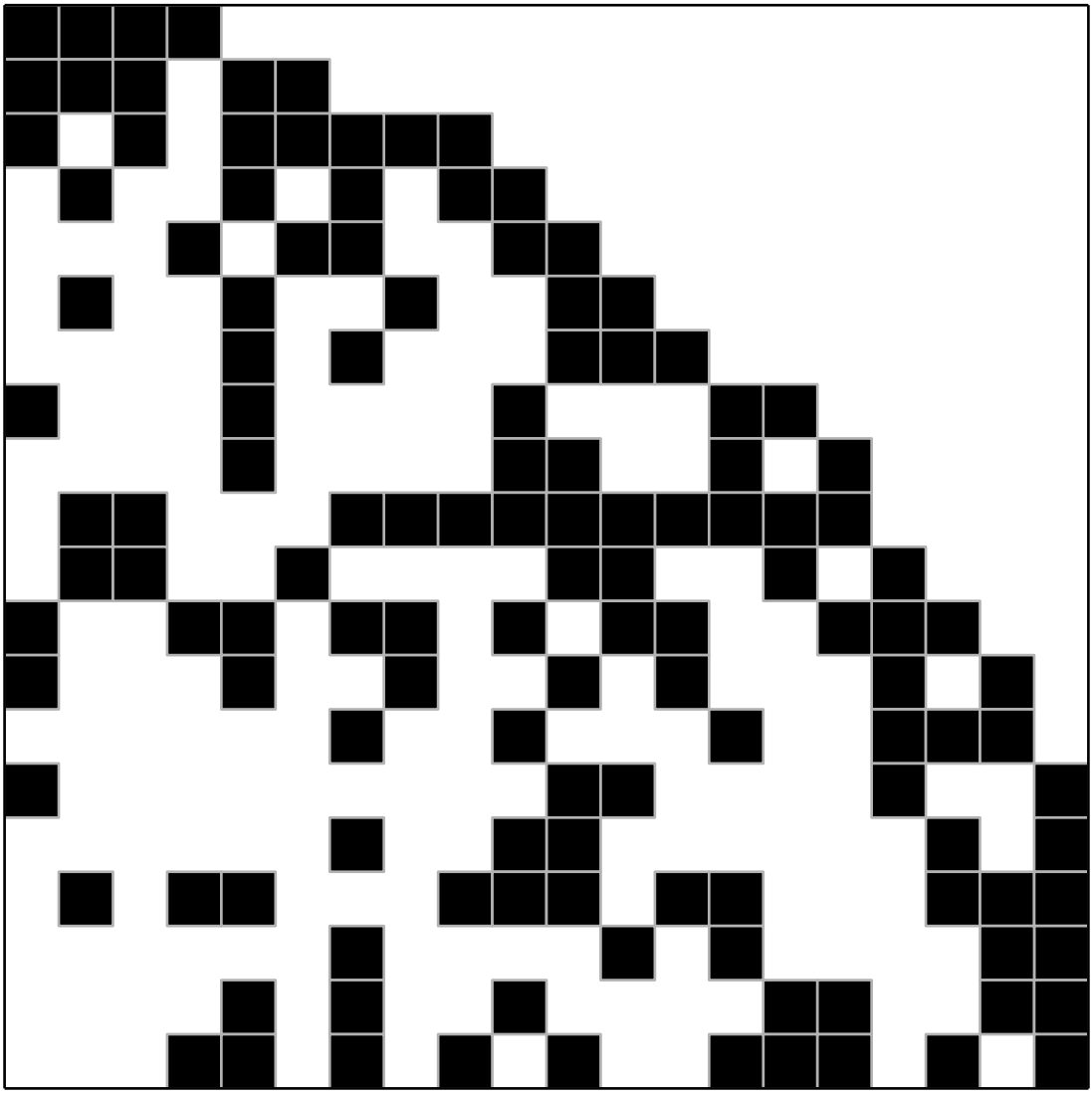
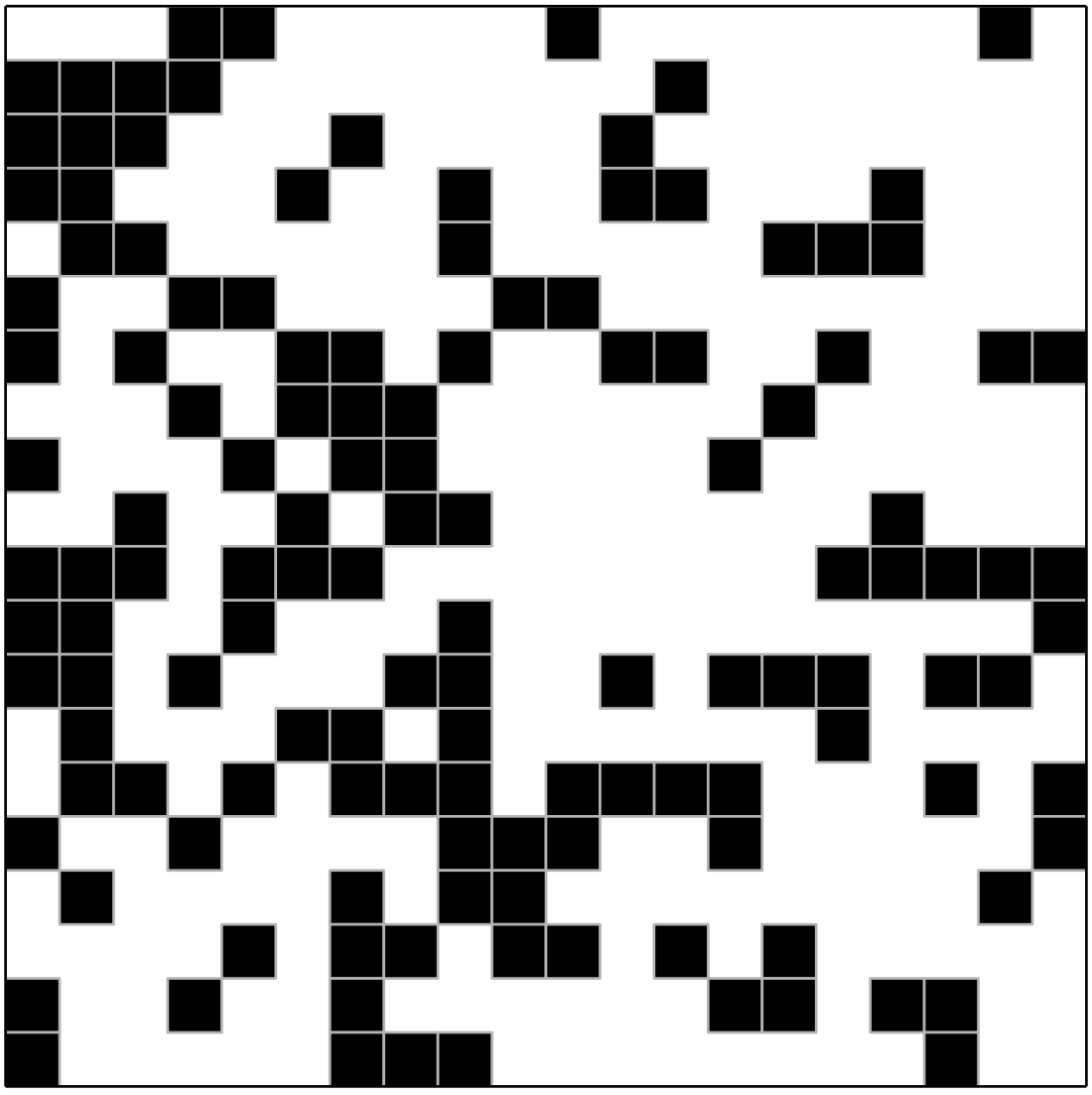
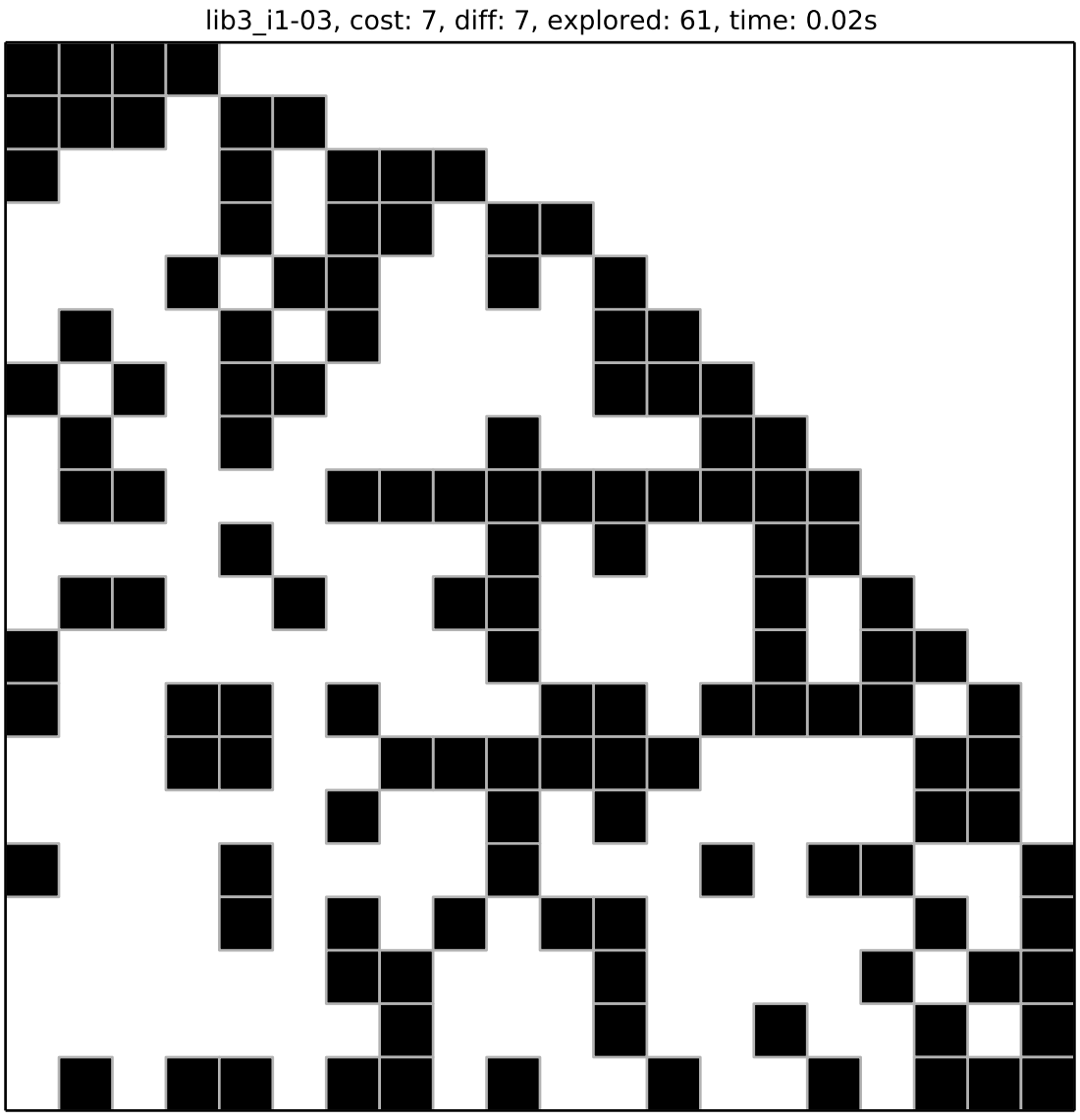
lib3_i1-02 20x20 (132) con: 10, var: 10



lib3_i1-02, cost: 7, diff: 7, explored: 63, time: 0.02s




lib3_i1-03 20x20 (132) con: 10, var: 10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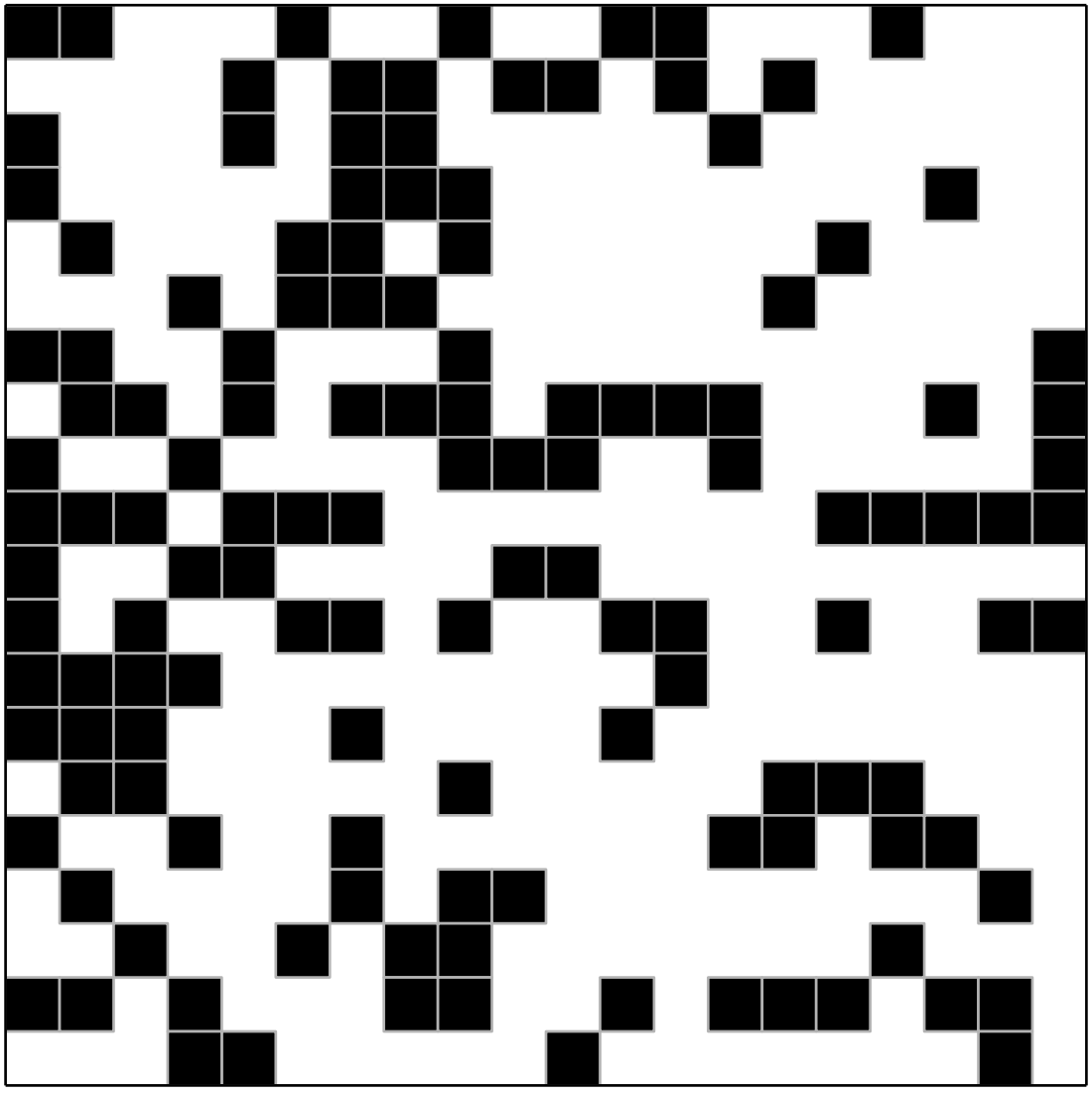
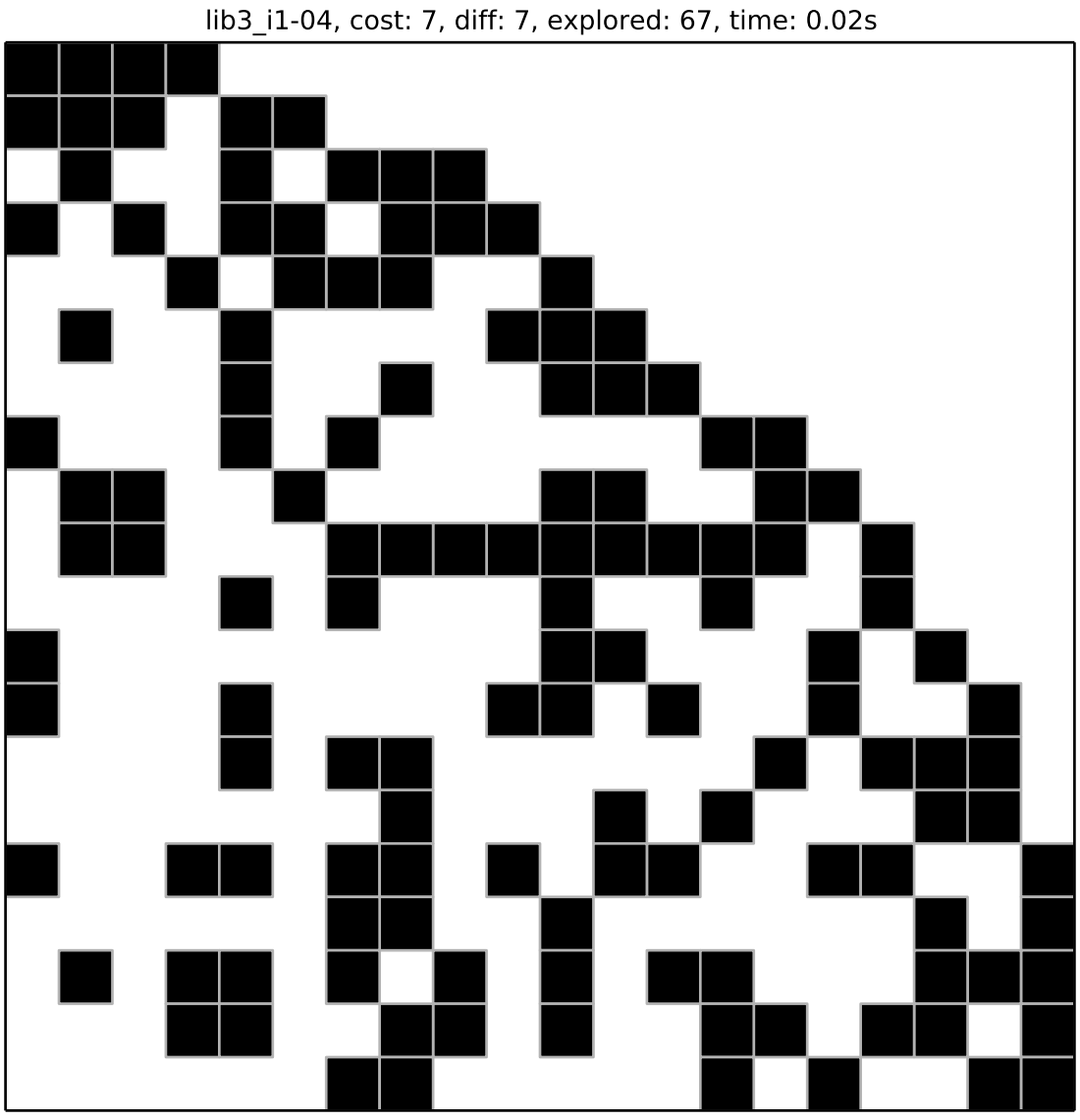
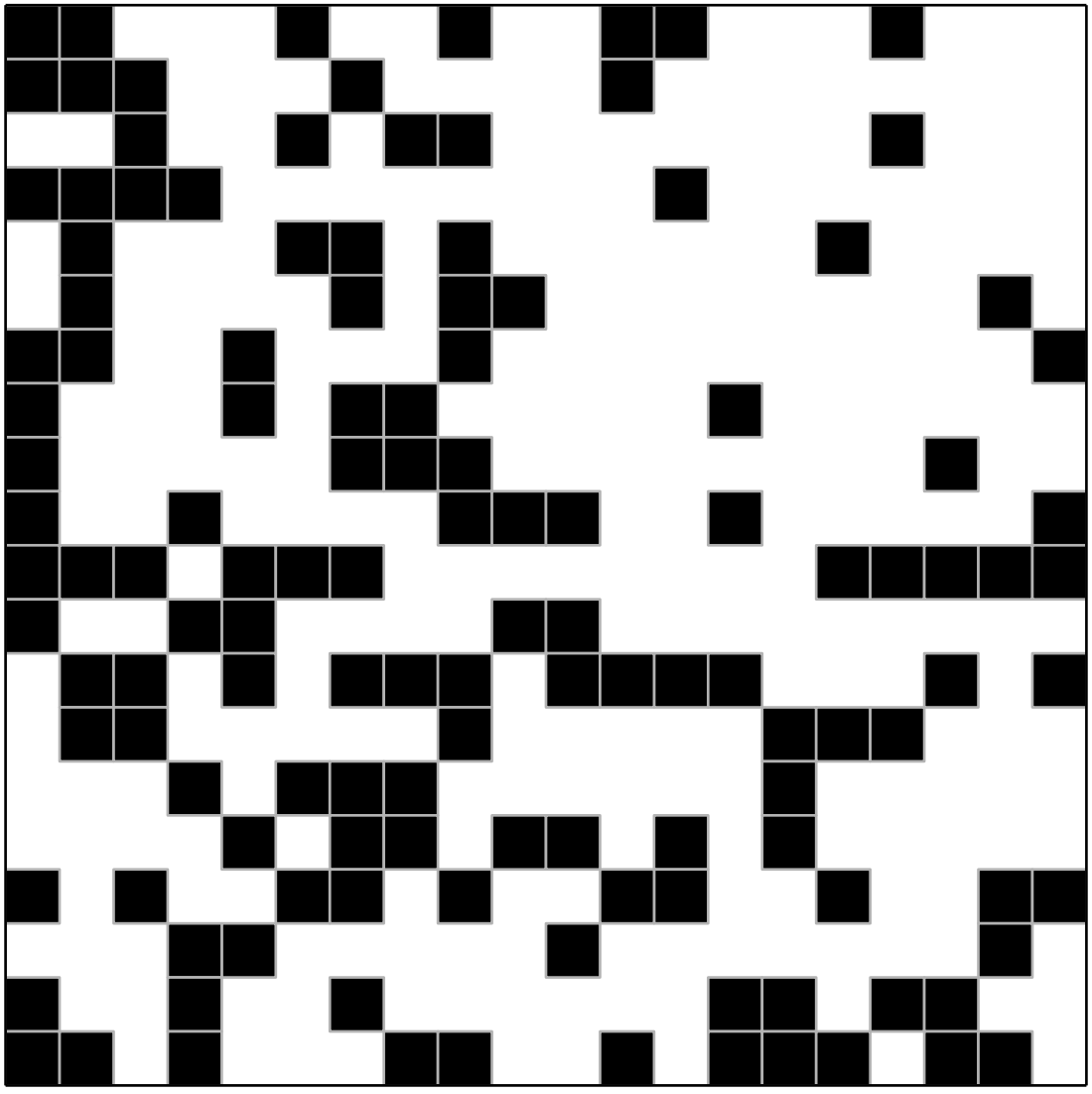
lib3_i1-04 20x20 (132) con: 10, var: 10

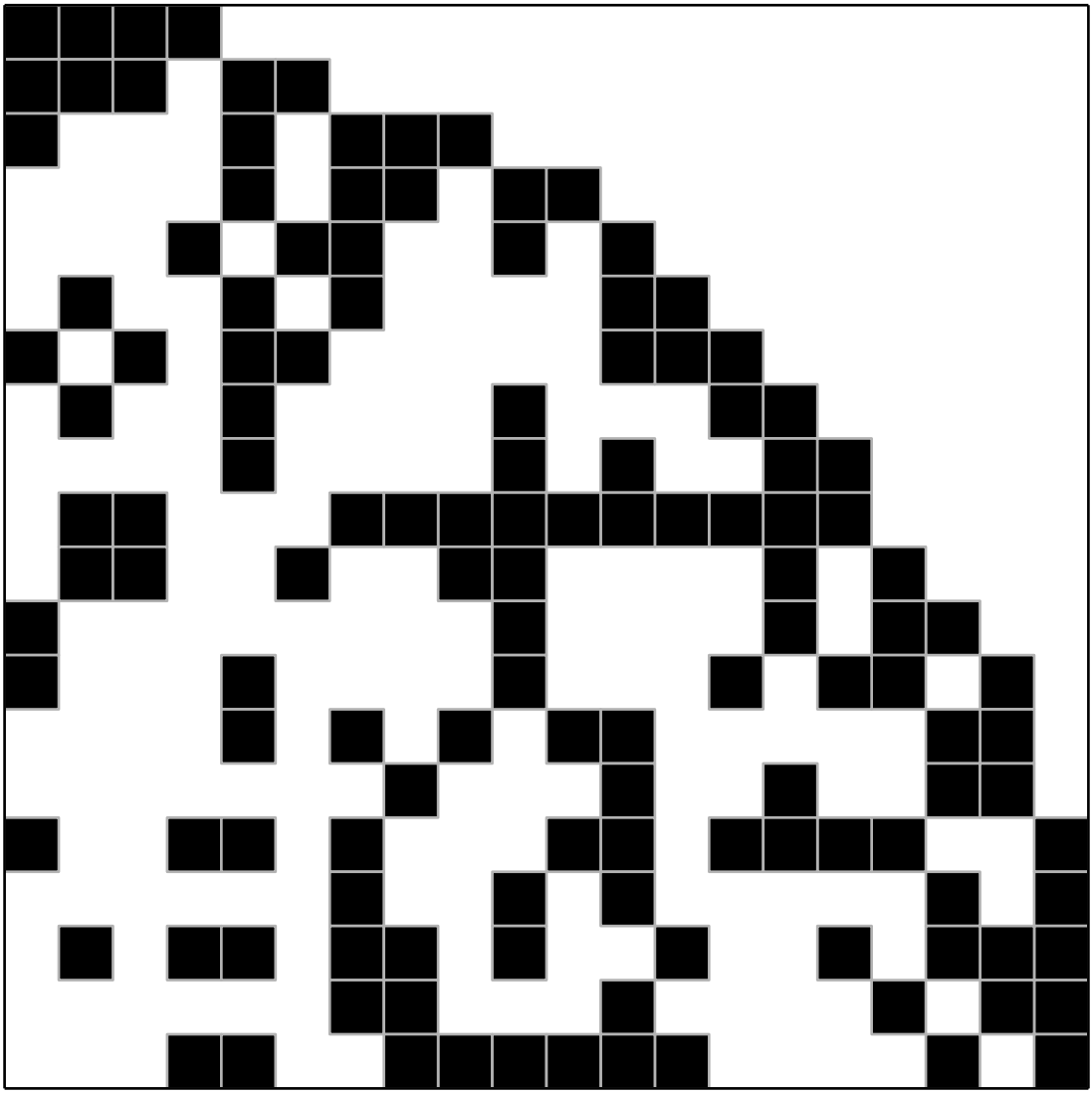


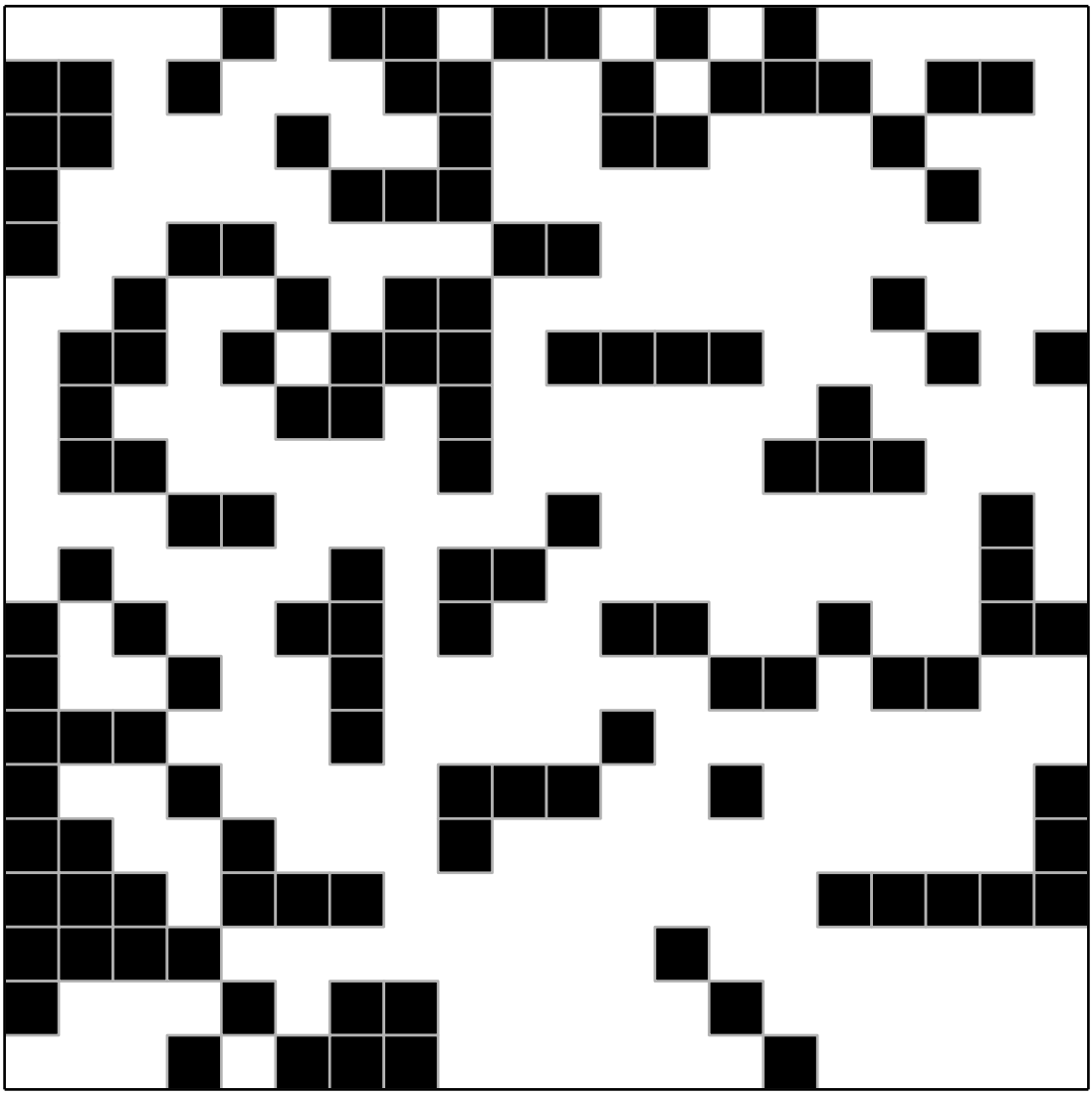

lib3_i1-04, cost: 7, diff: 7, explored: 67, time: 0.02s

lib3_i1-05 20x20 (132) con: 10, var: 10

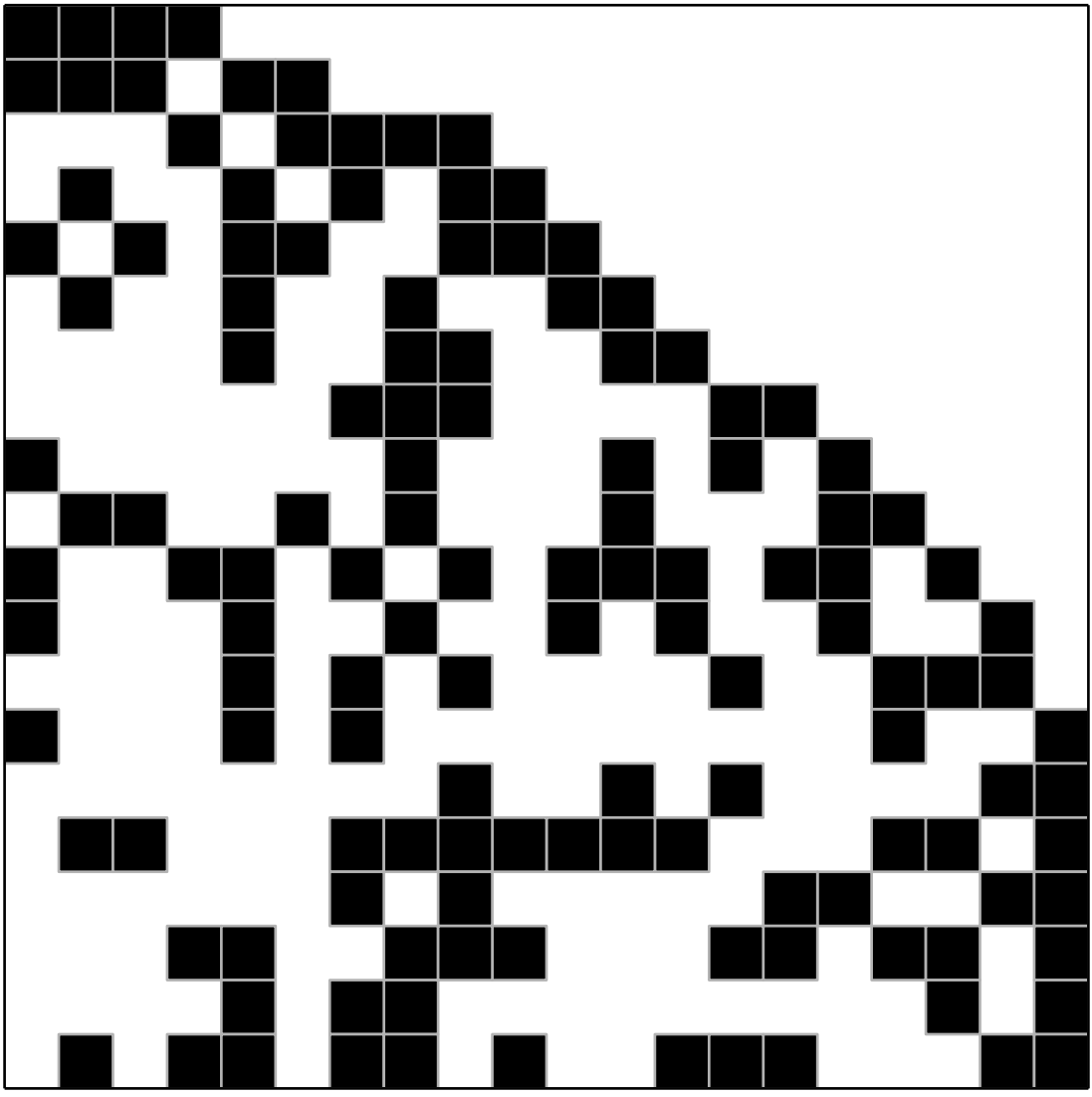


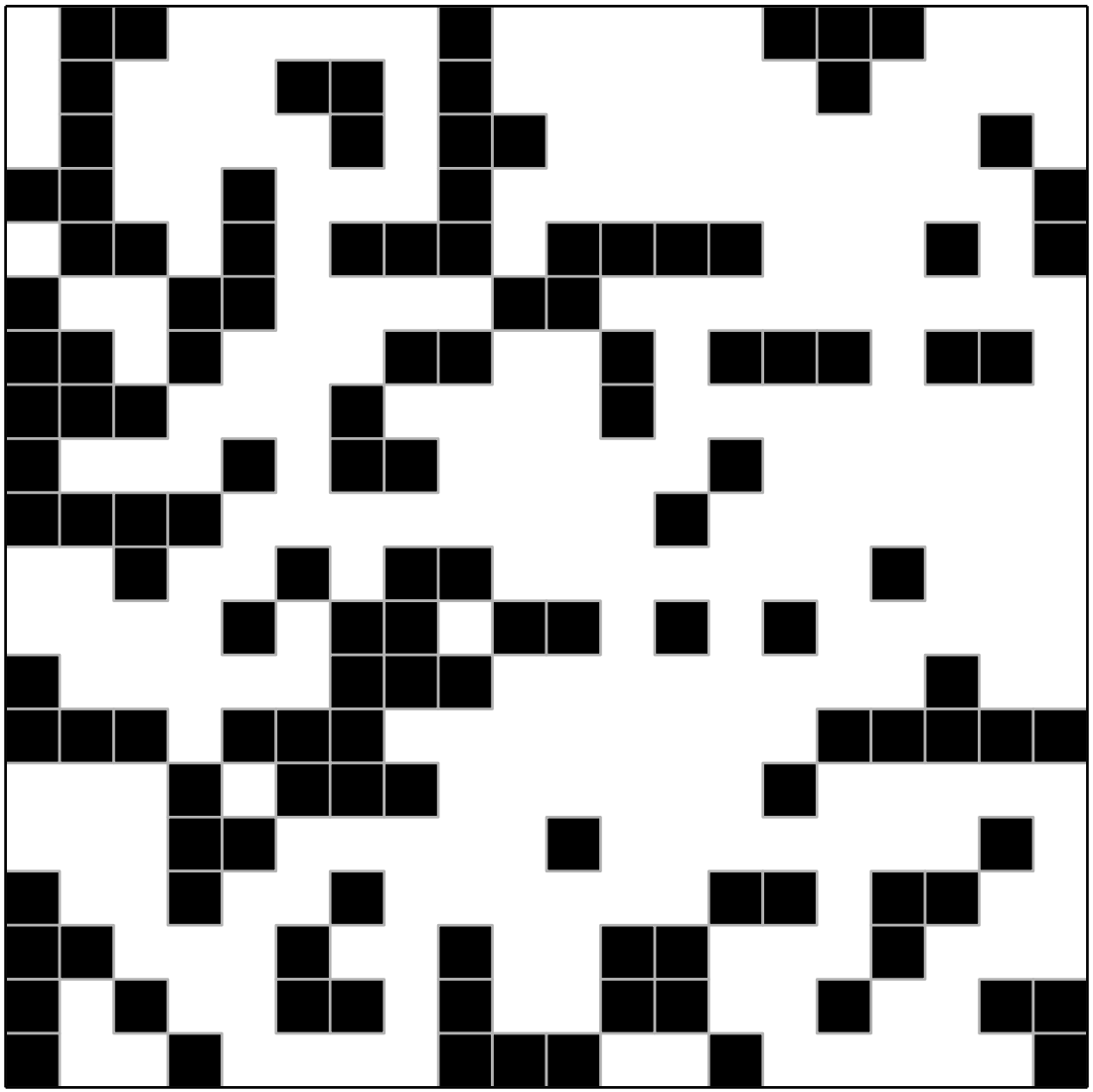
lib3_i1-05, cost: 7, diff: 7, explored: 64, time: 0.02s

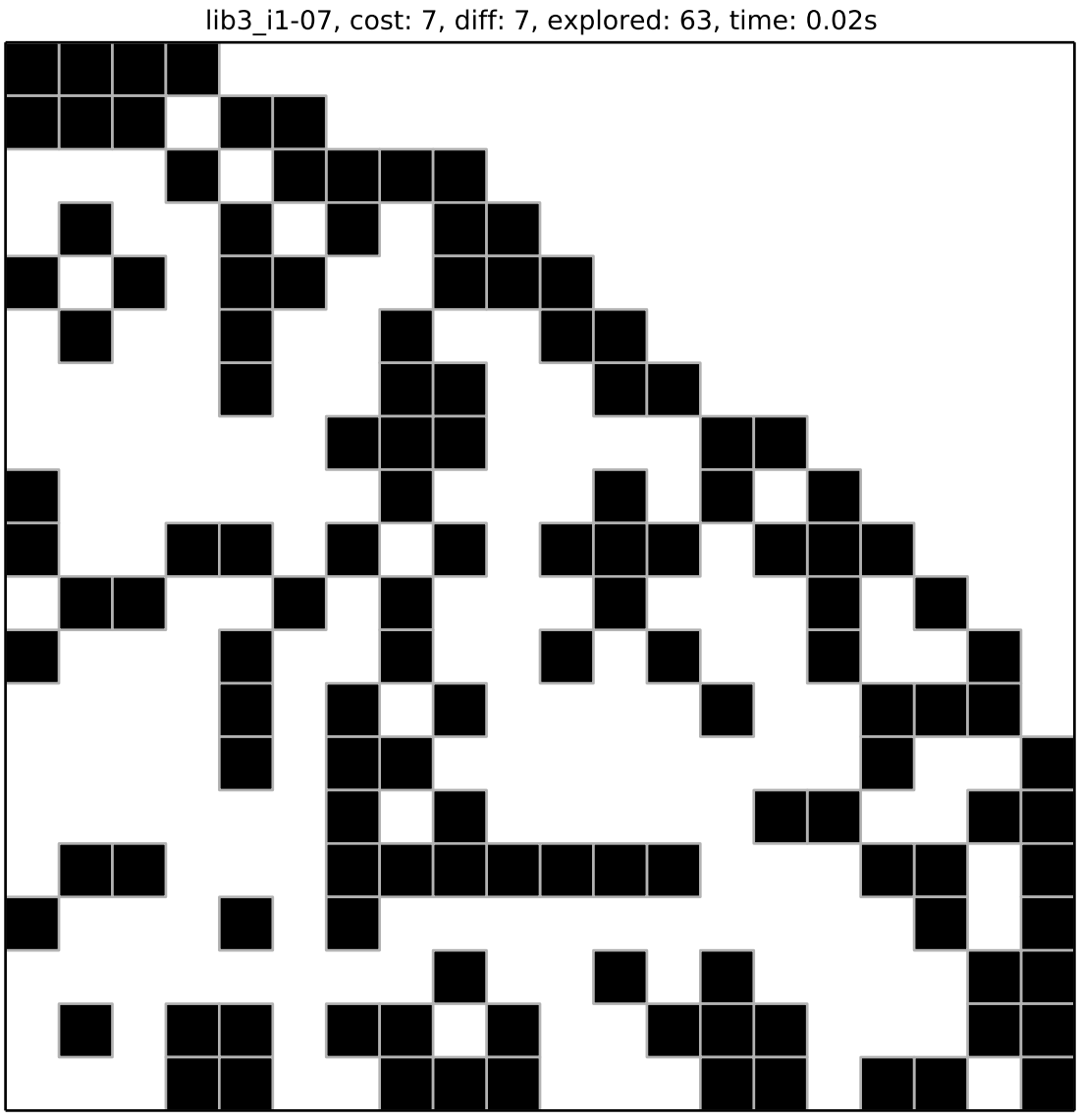



lib3_i1-06 20x20 (132) con: 10, var: 10

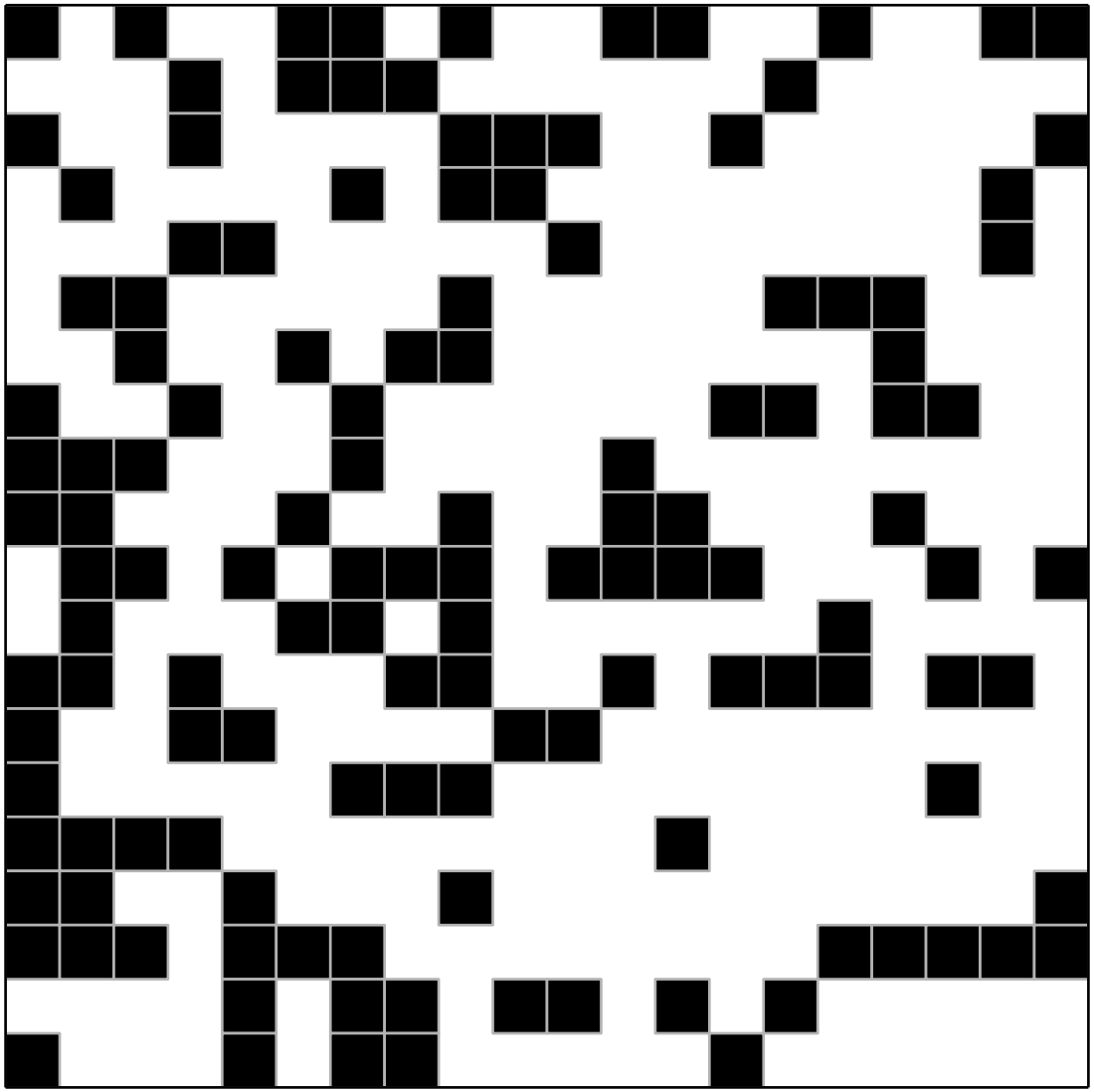
lib3_i1-06, cost: 7, diff: 7, explored: 62, time: 0.02s

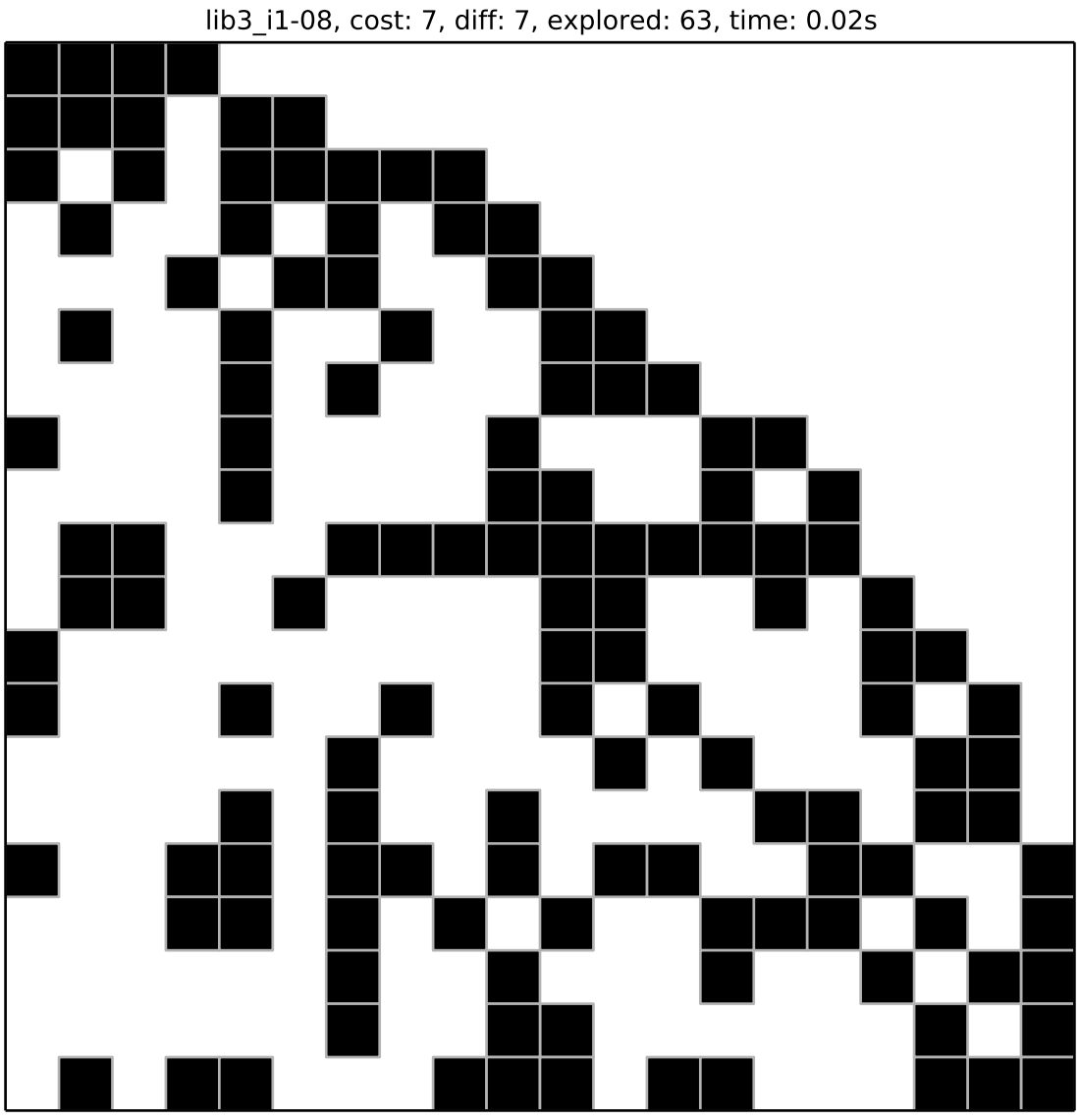



lib3_i1-07 20x20 (132) con: 10, var: 10

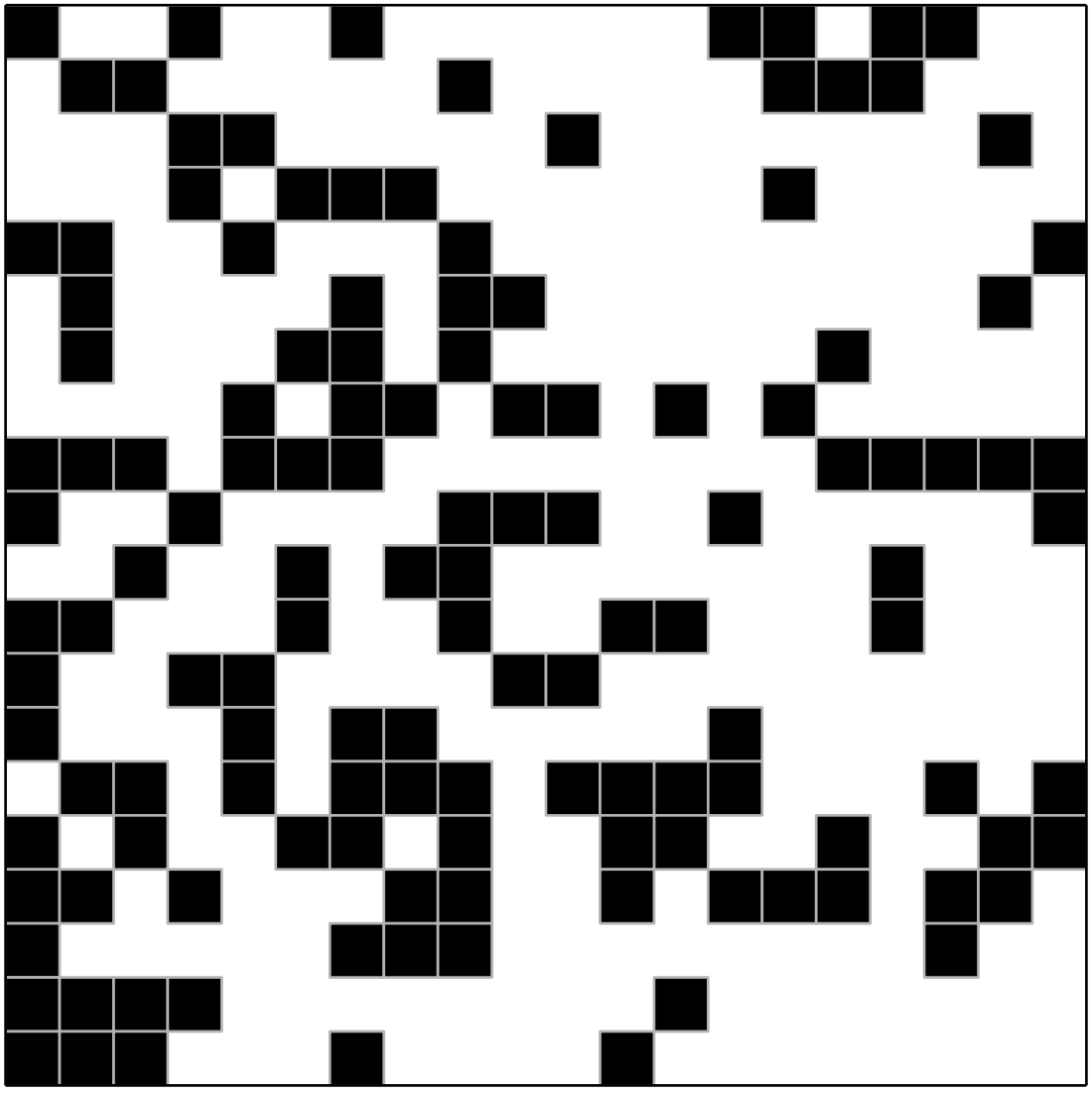

lib3_i1-07, cost: 7, diff: 7, explored: 63, time: 0.02s

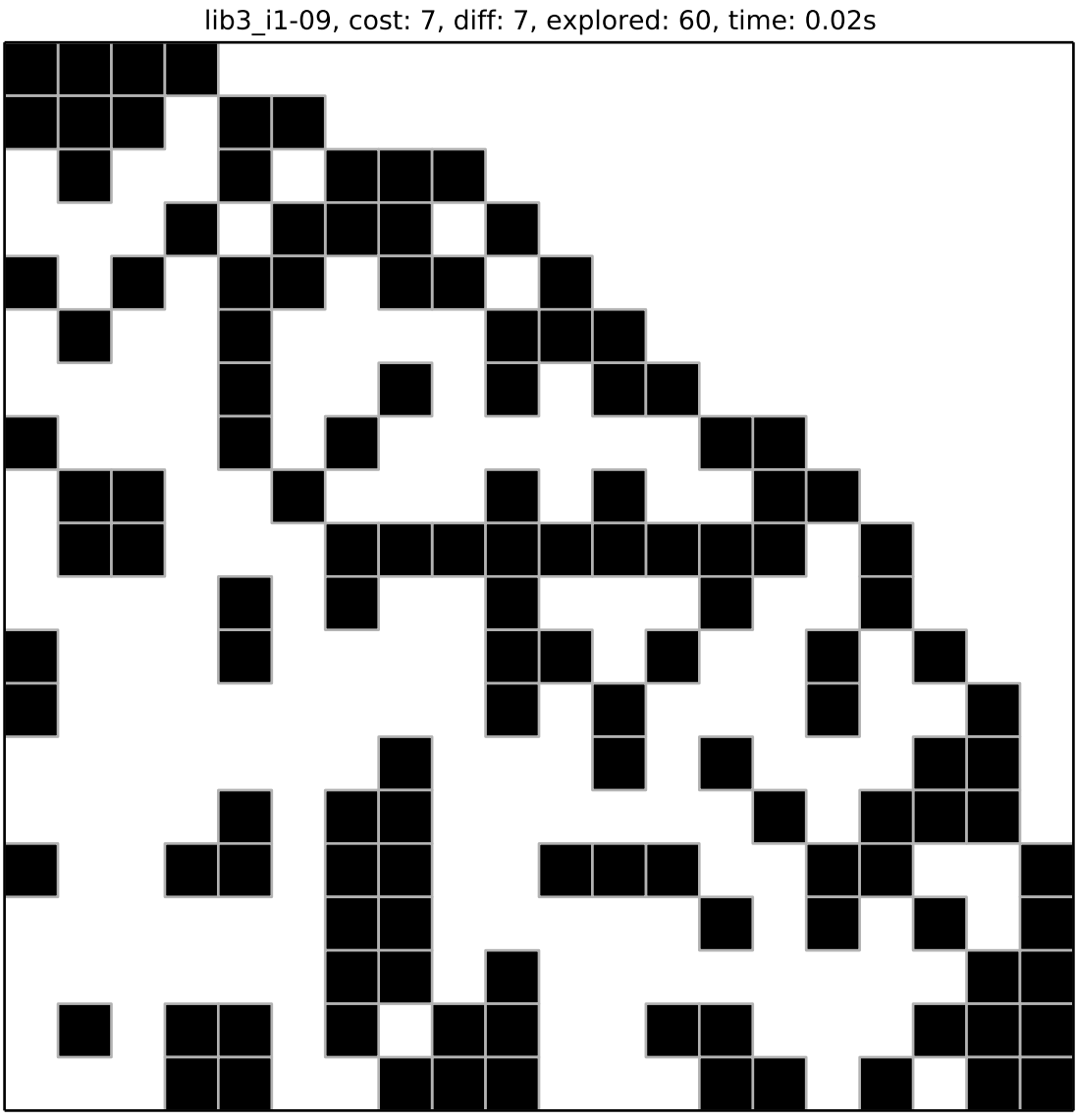
lib3_i1-08 20x20 (132) con: 10, var: 10

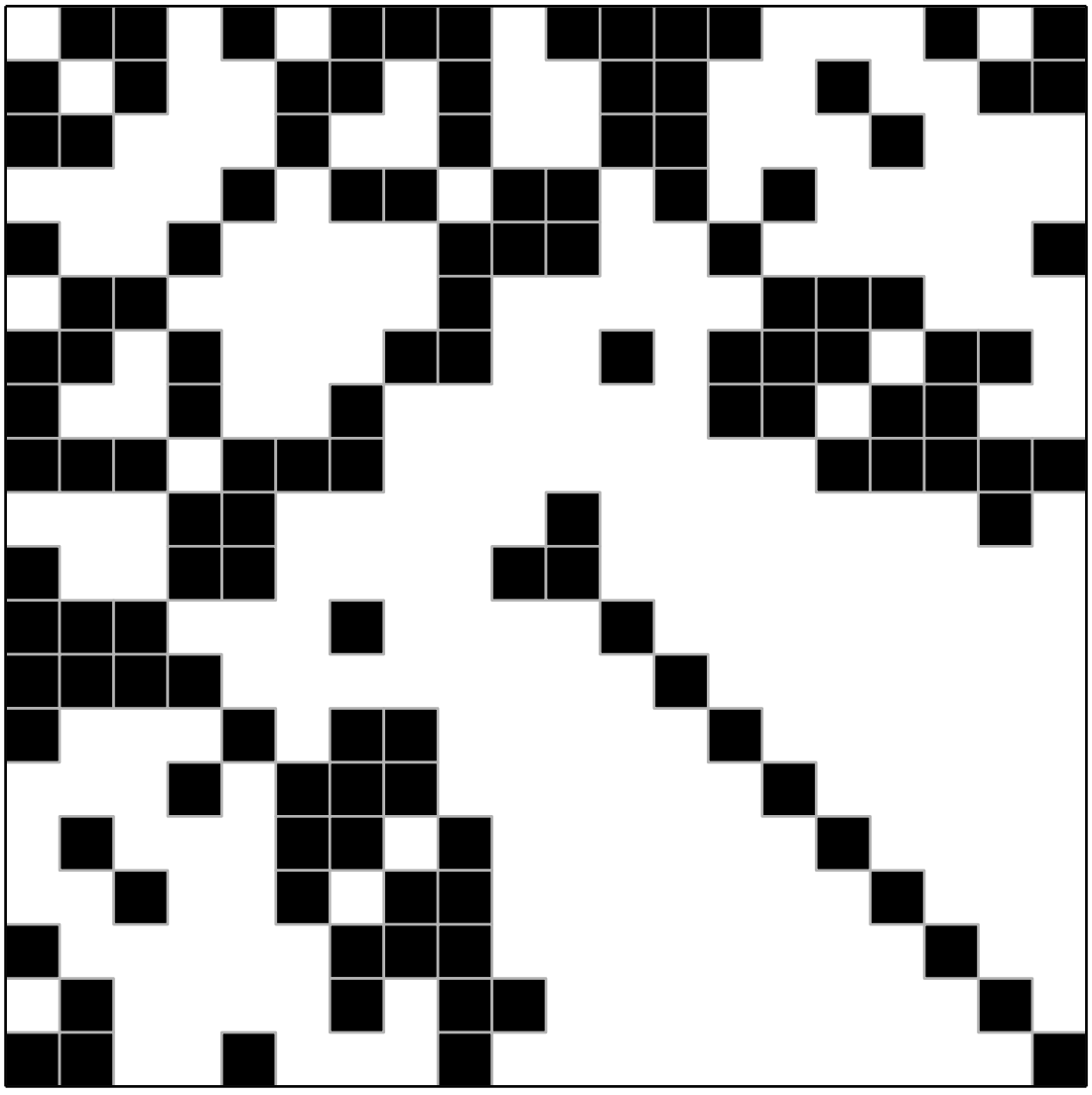


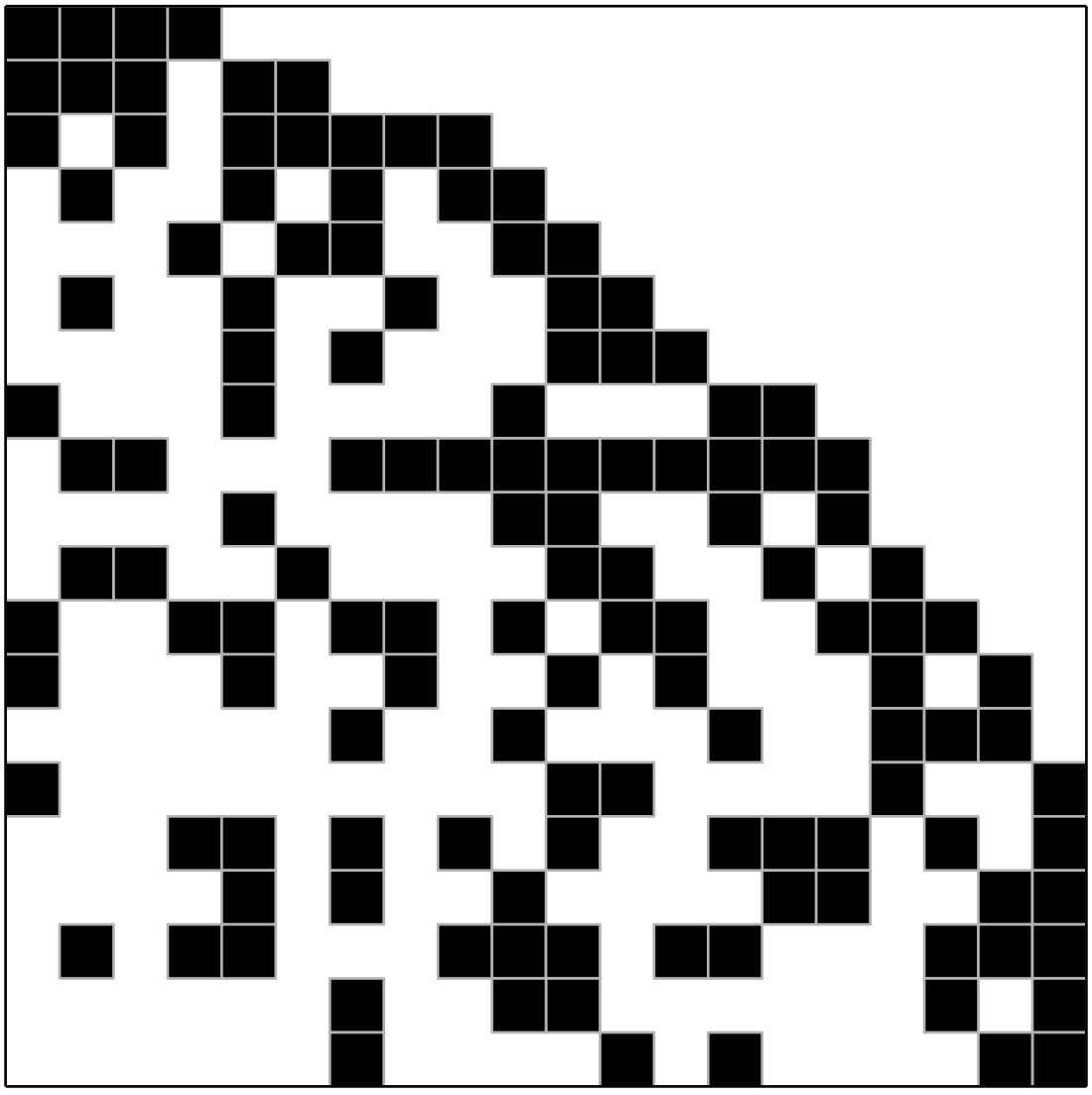

lib3_i1-08, cost: 7, diff: 7, explored: 63, time: 0.02s

lib3_i1-09 20x20 (132) con: 10, var: 10

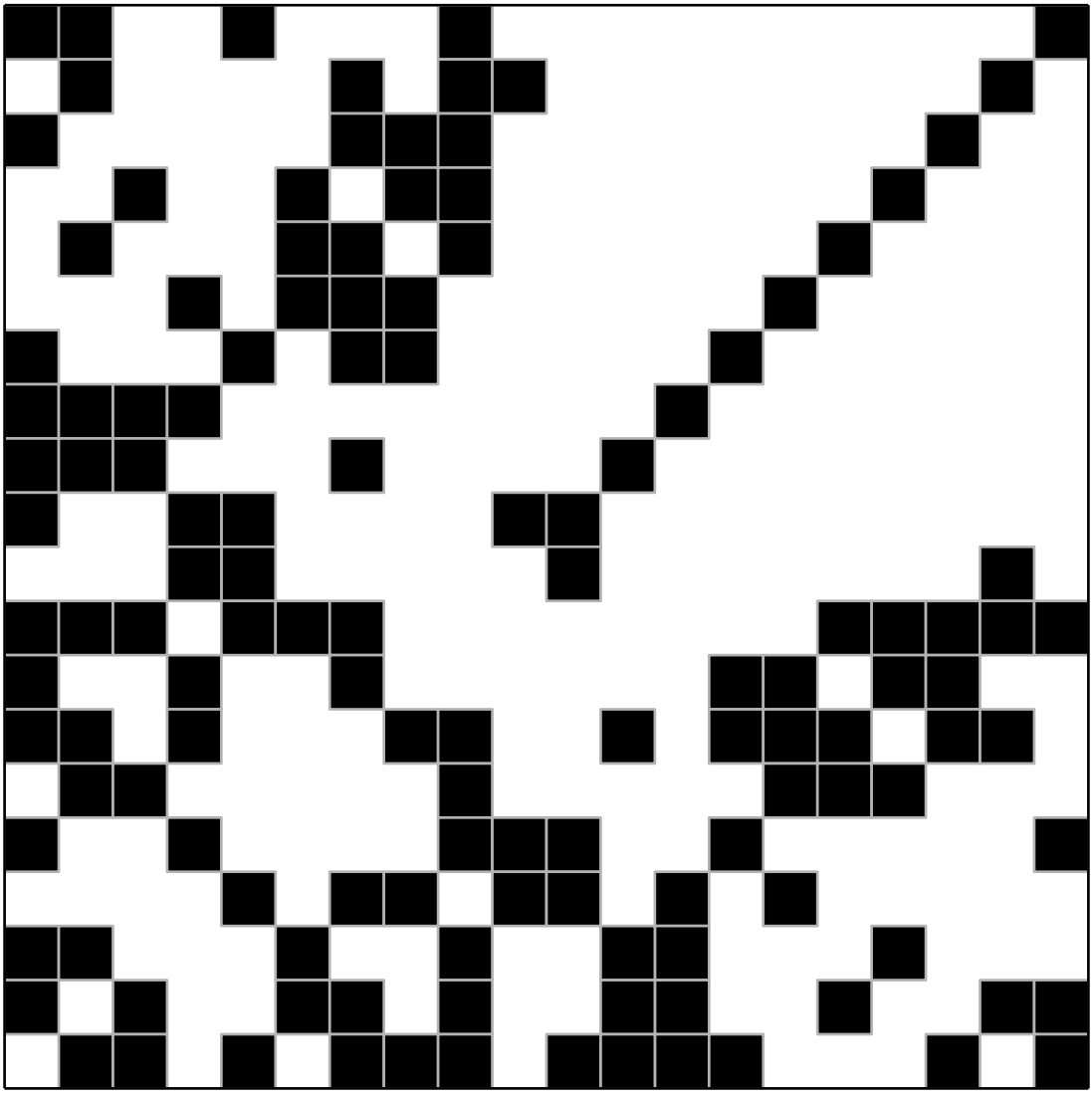


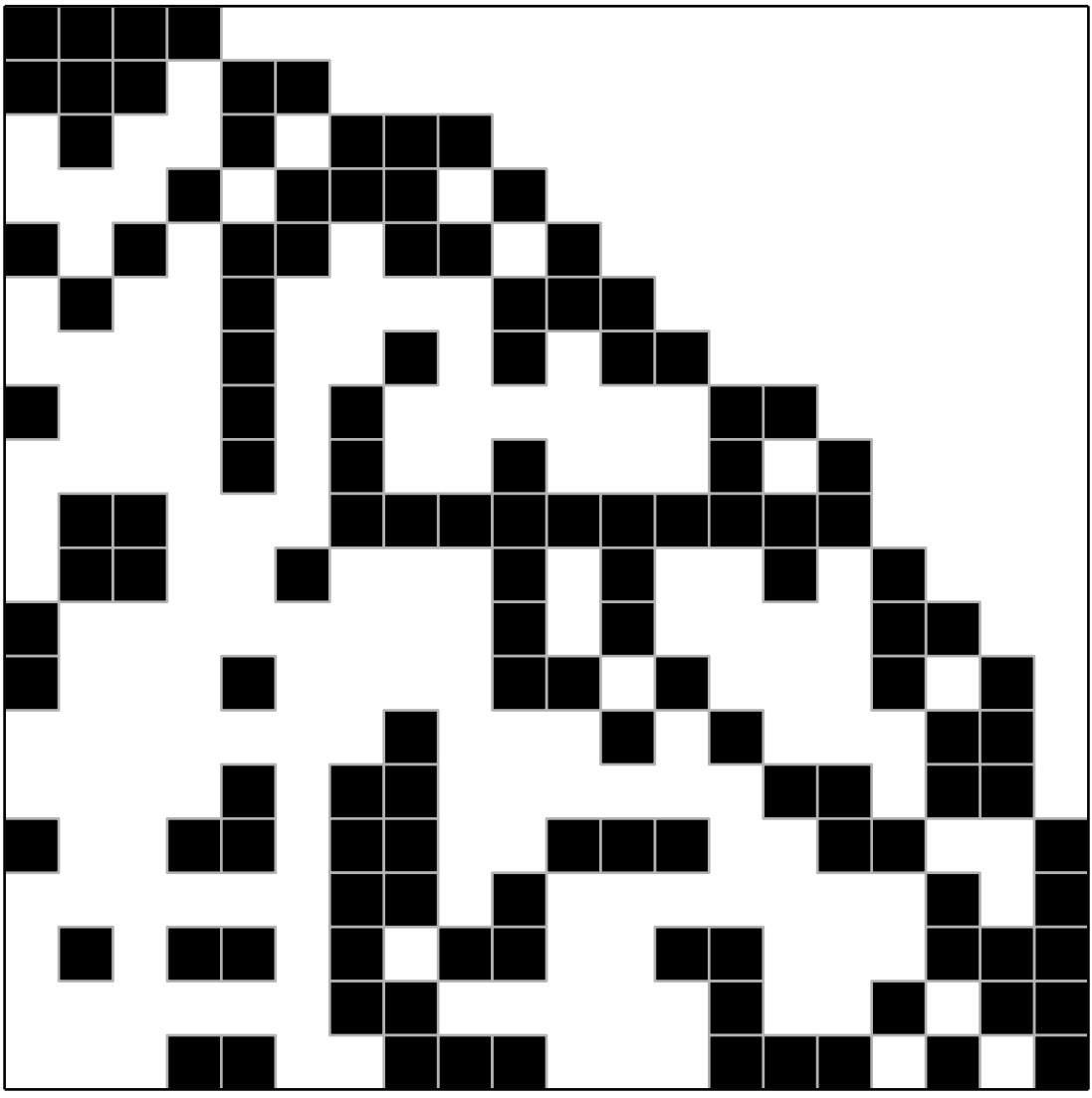

lib3_i1-09, cost: 7, diff: 7, explored: 60, time: 0.02s

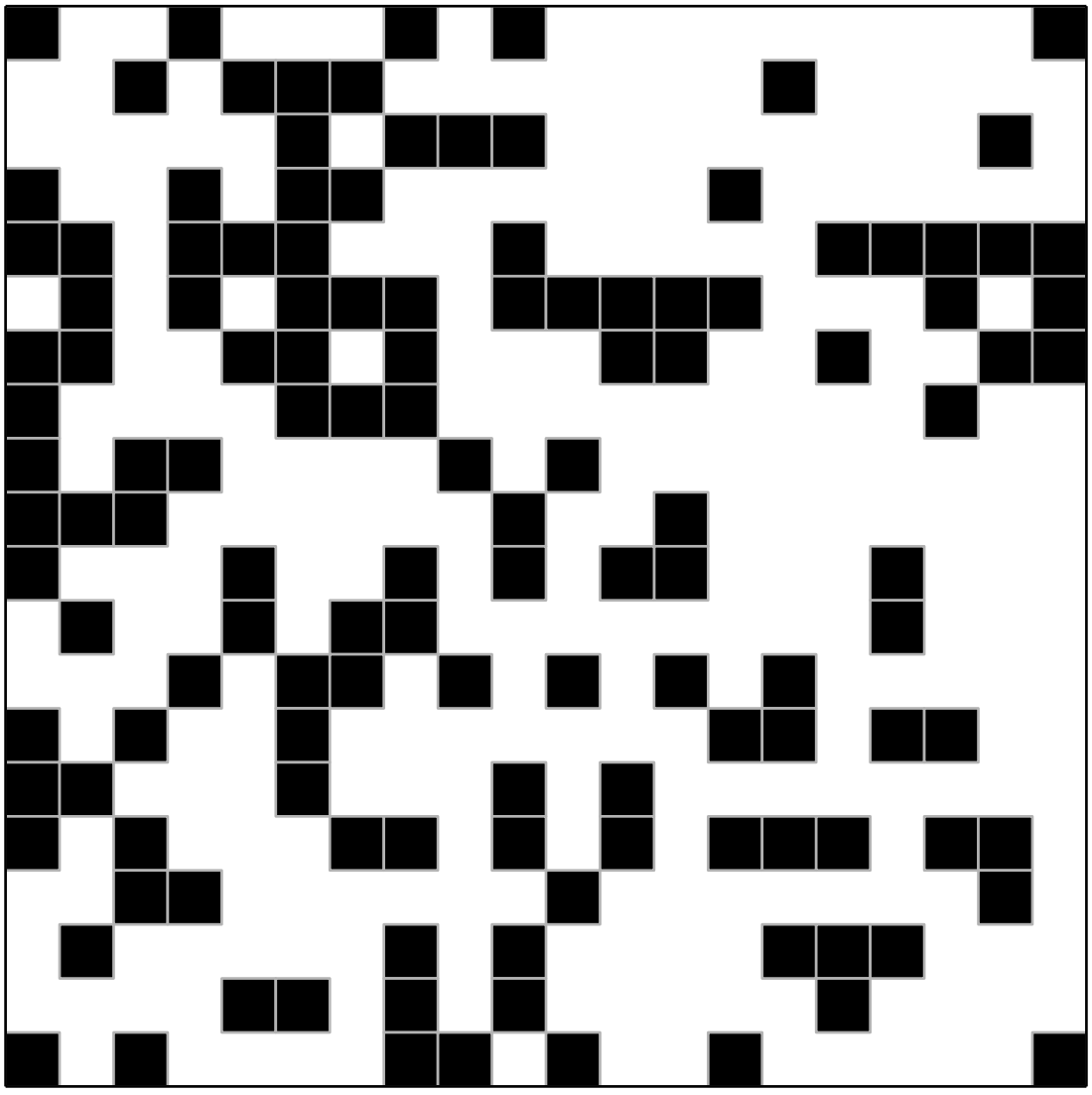

lib3_i1-IN 20x20 (132) con: 10, var: 10


lib3_i1-IN, cost: 7, diff: 7, explored: 60, time: 0.02s

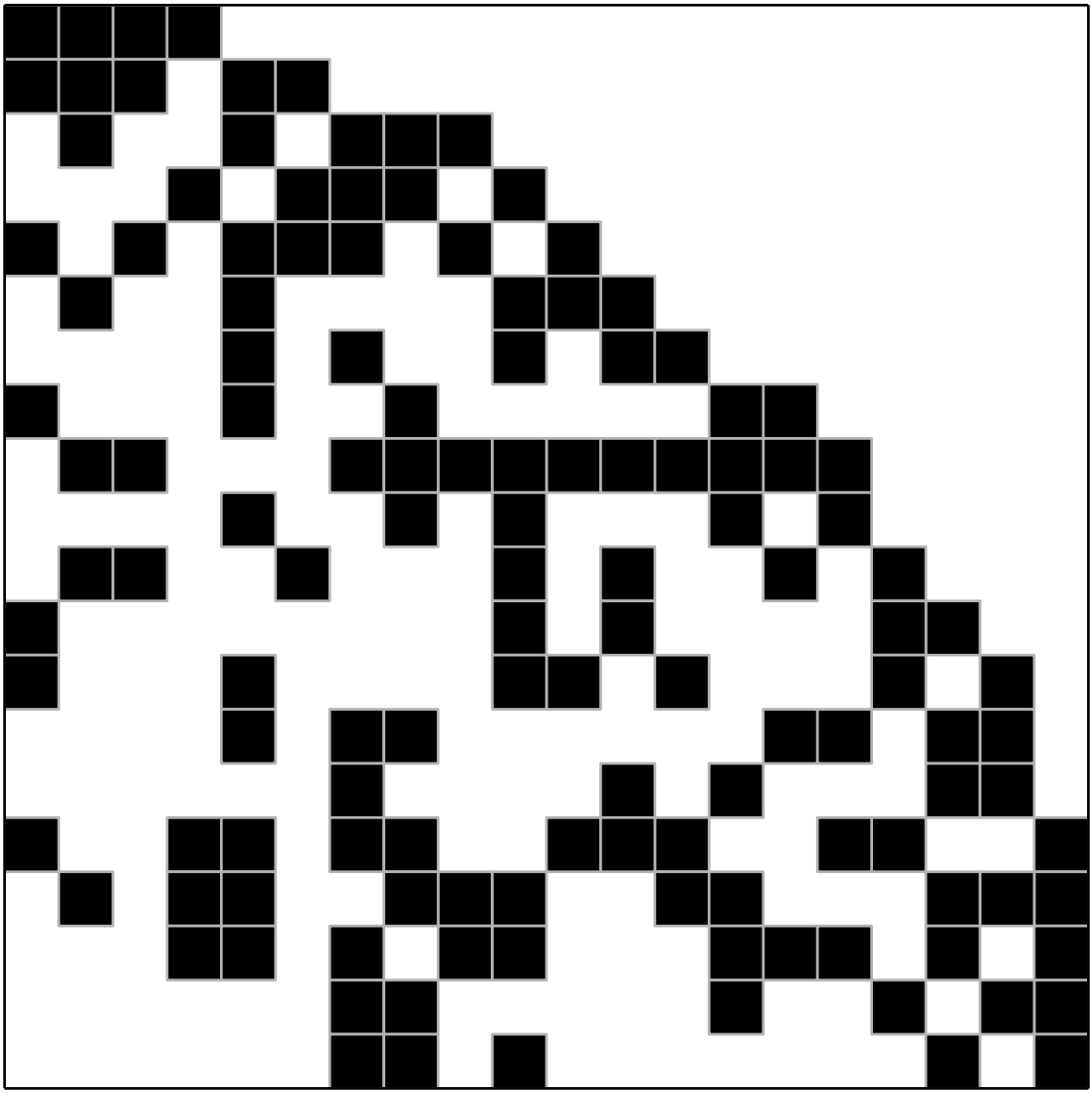
lib3_i1-RE 20x20 (132) con: 10, var: 10

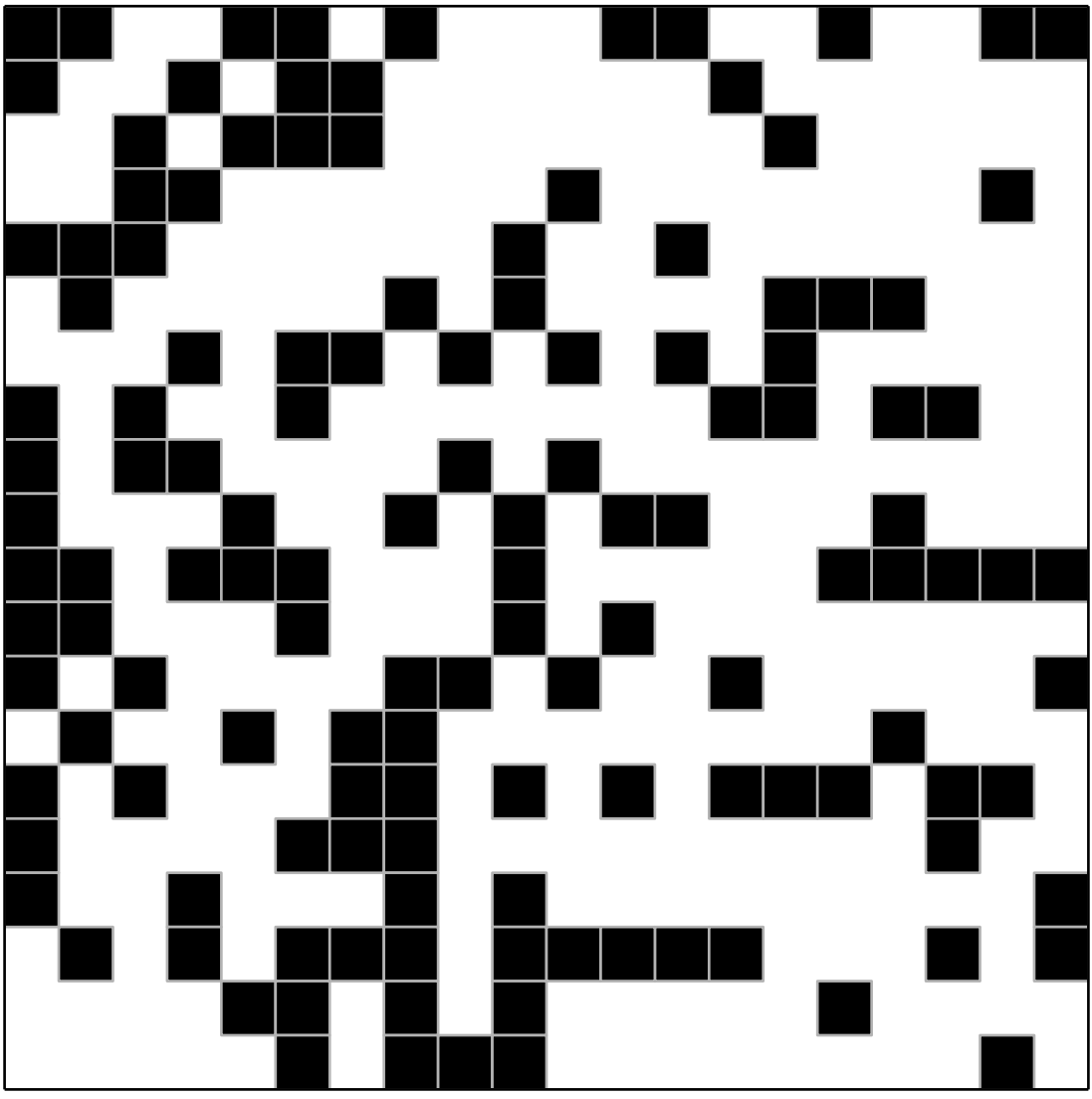



lib3_i1-RE, cost: 7, diff: 7, explored: 64, time: 0.02s

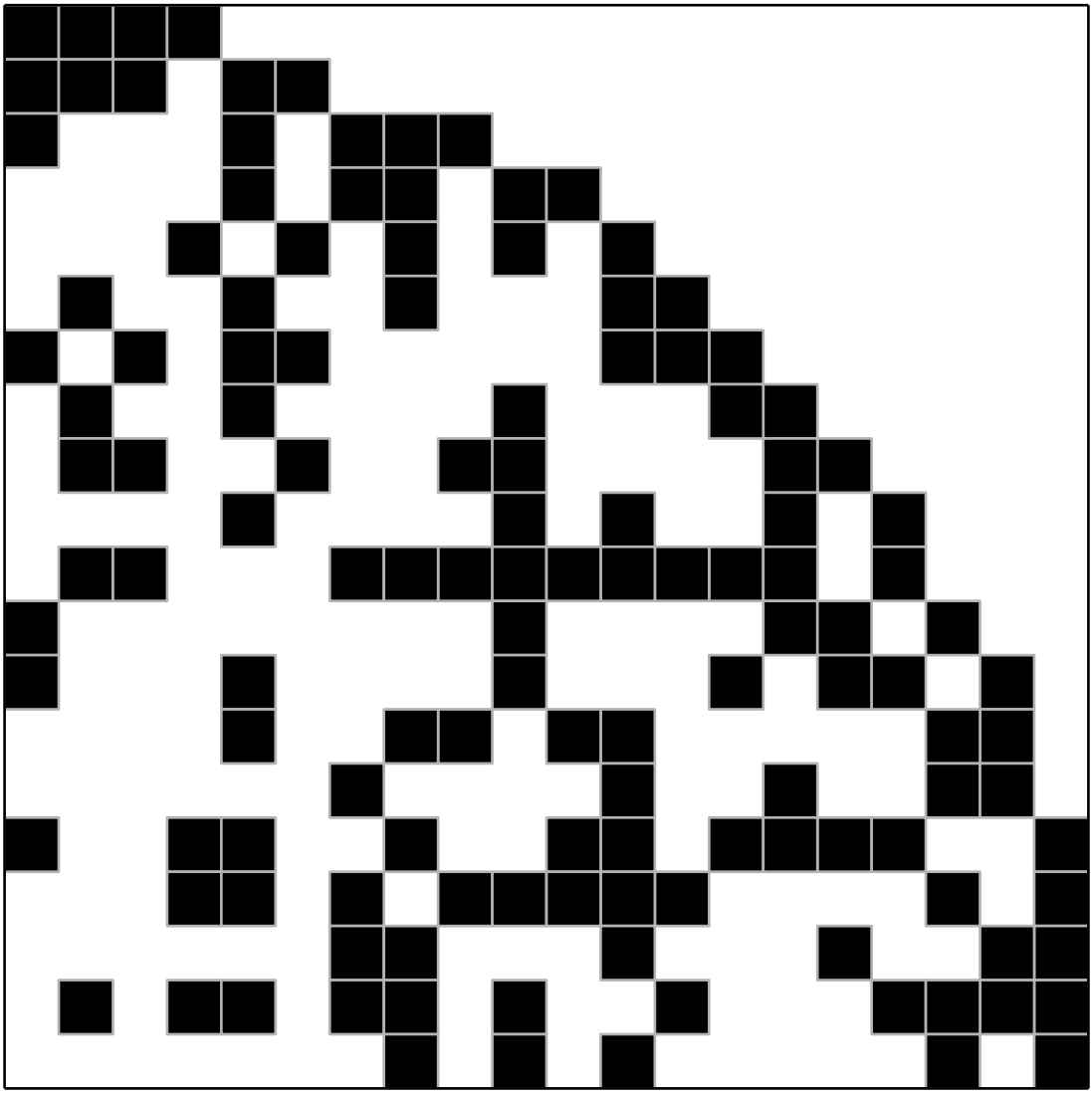

lib3_i2-00 20x20 (132) con: 10, var: 10

lib3_i2-00, cost: 7, diff: 7, explored: 66, time: 0.02s

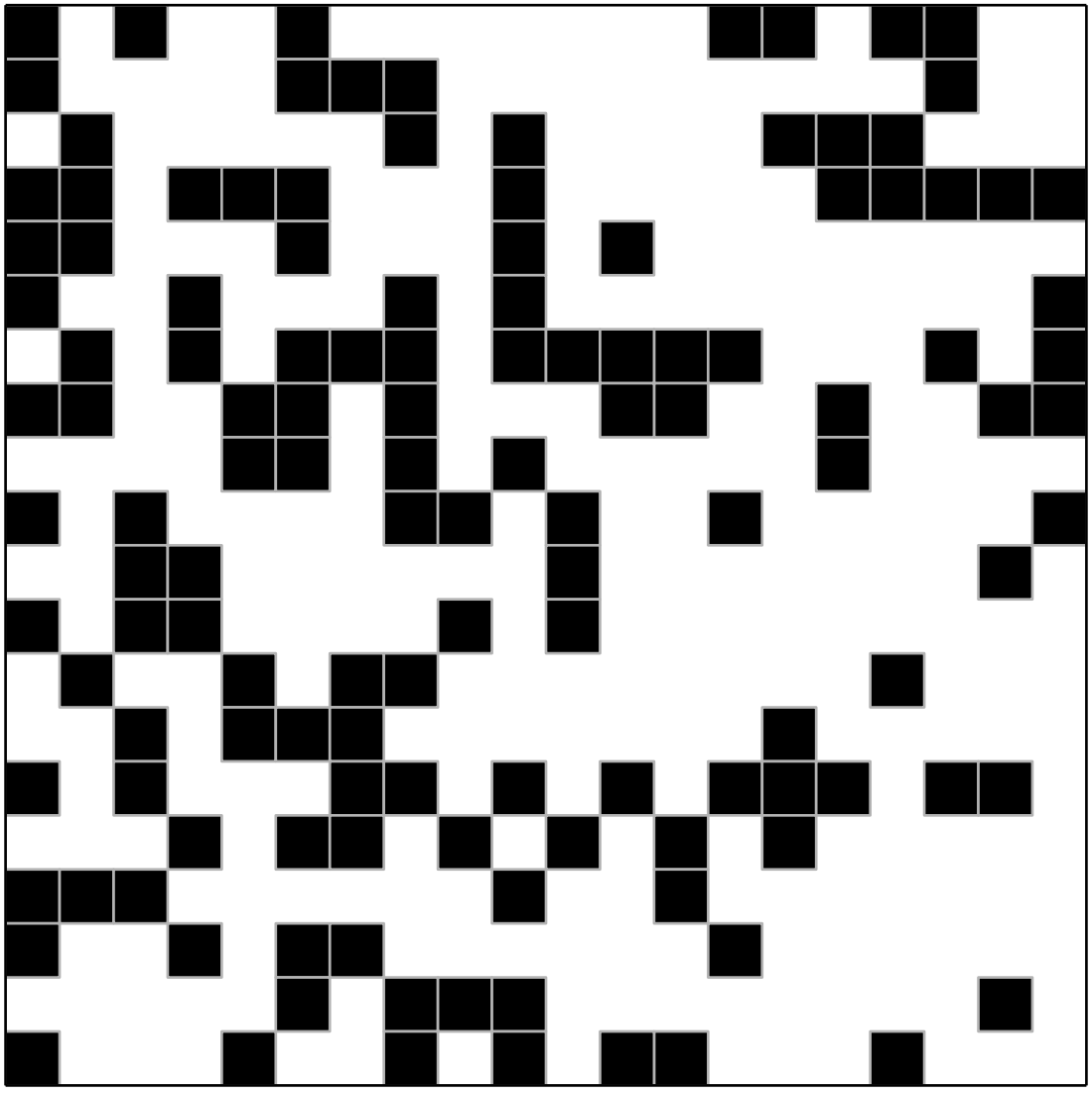



lib3_i2-01 20x20 (132) con: 10, var: 10

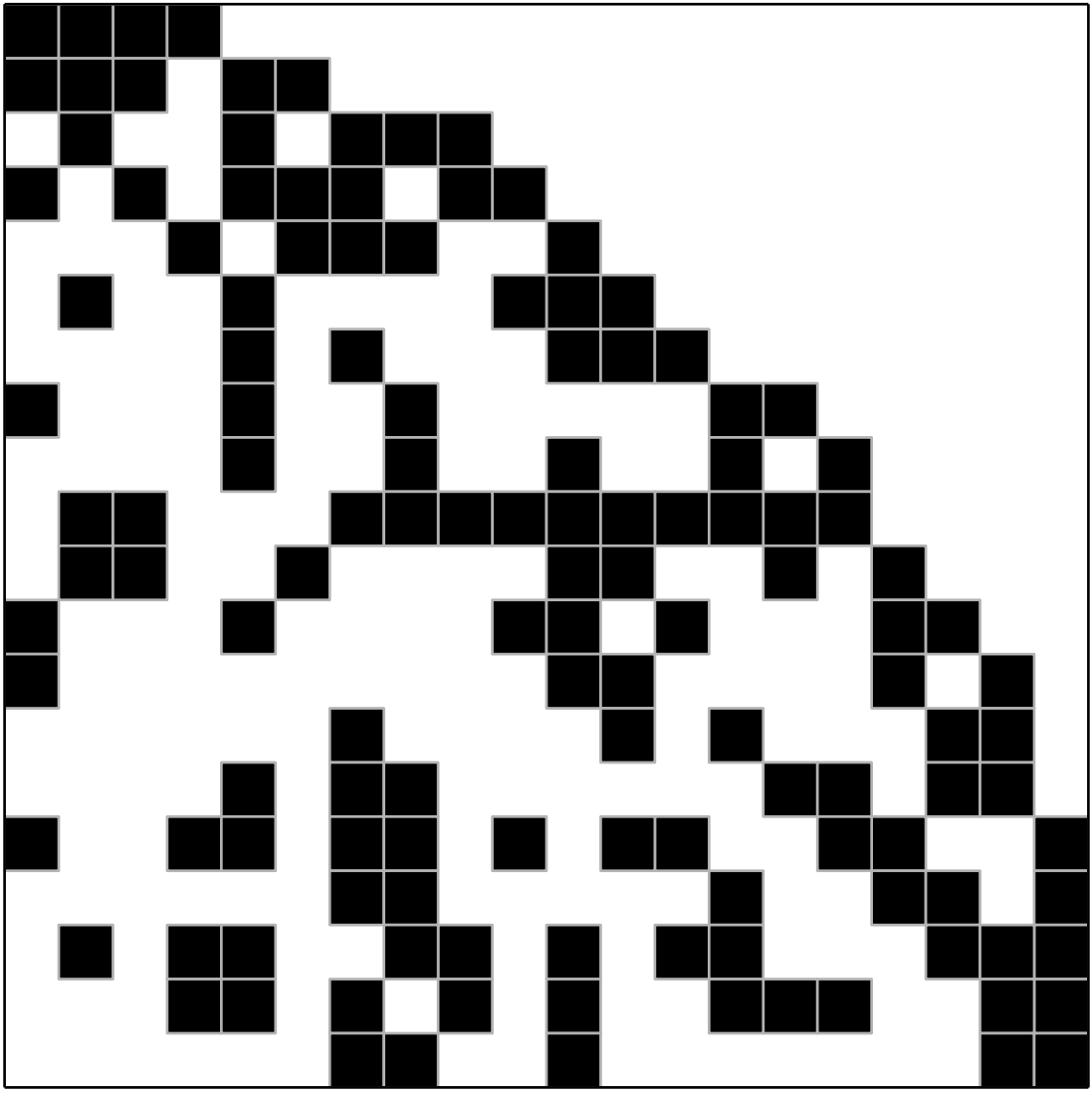
lib3_i2-01, cost: 7, diff: 7, explored: 66, time: 0.02s



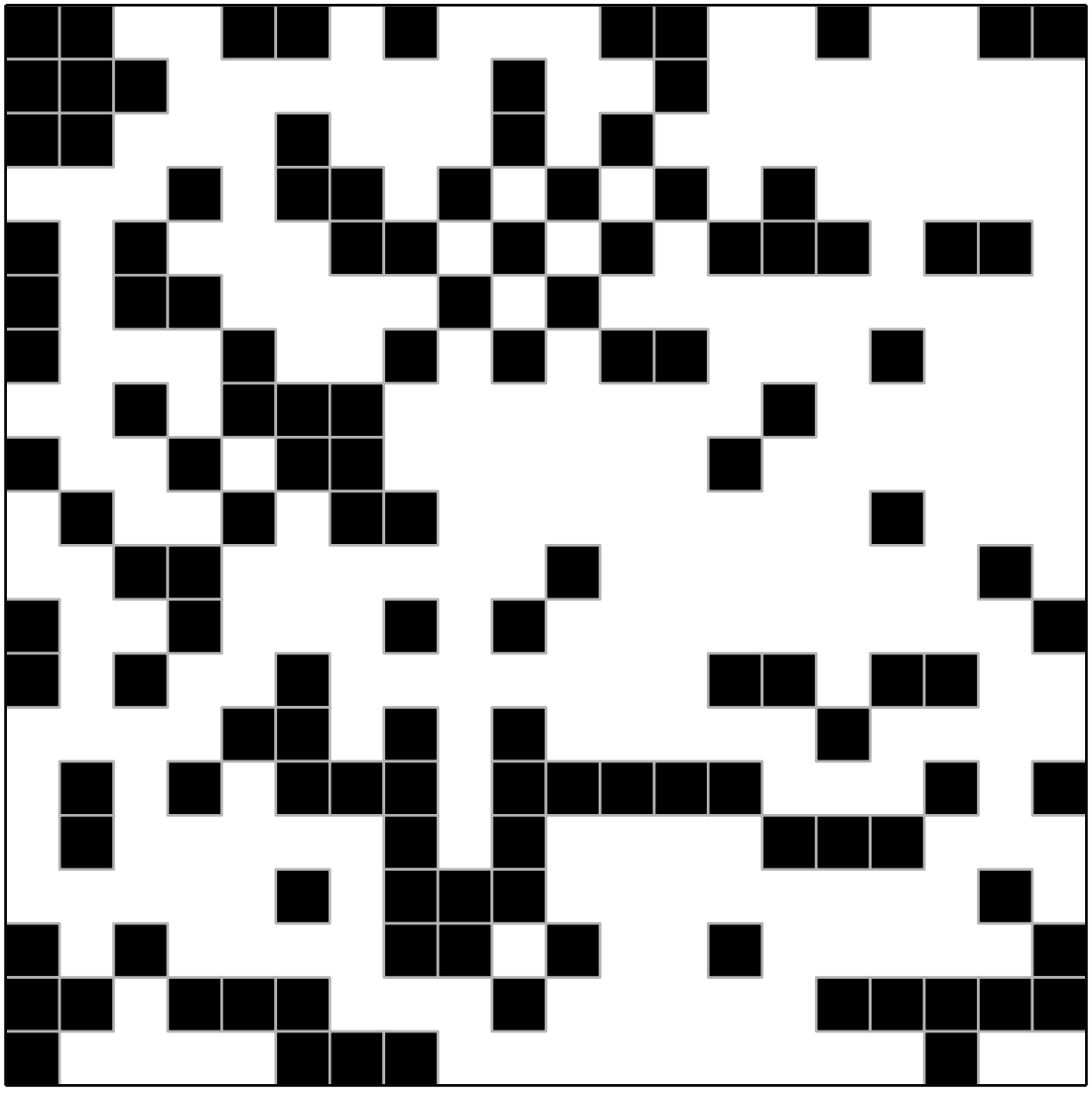
lib3_i2-02 20x20 (132) con: 10, var: 10

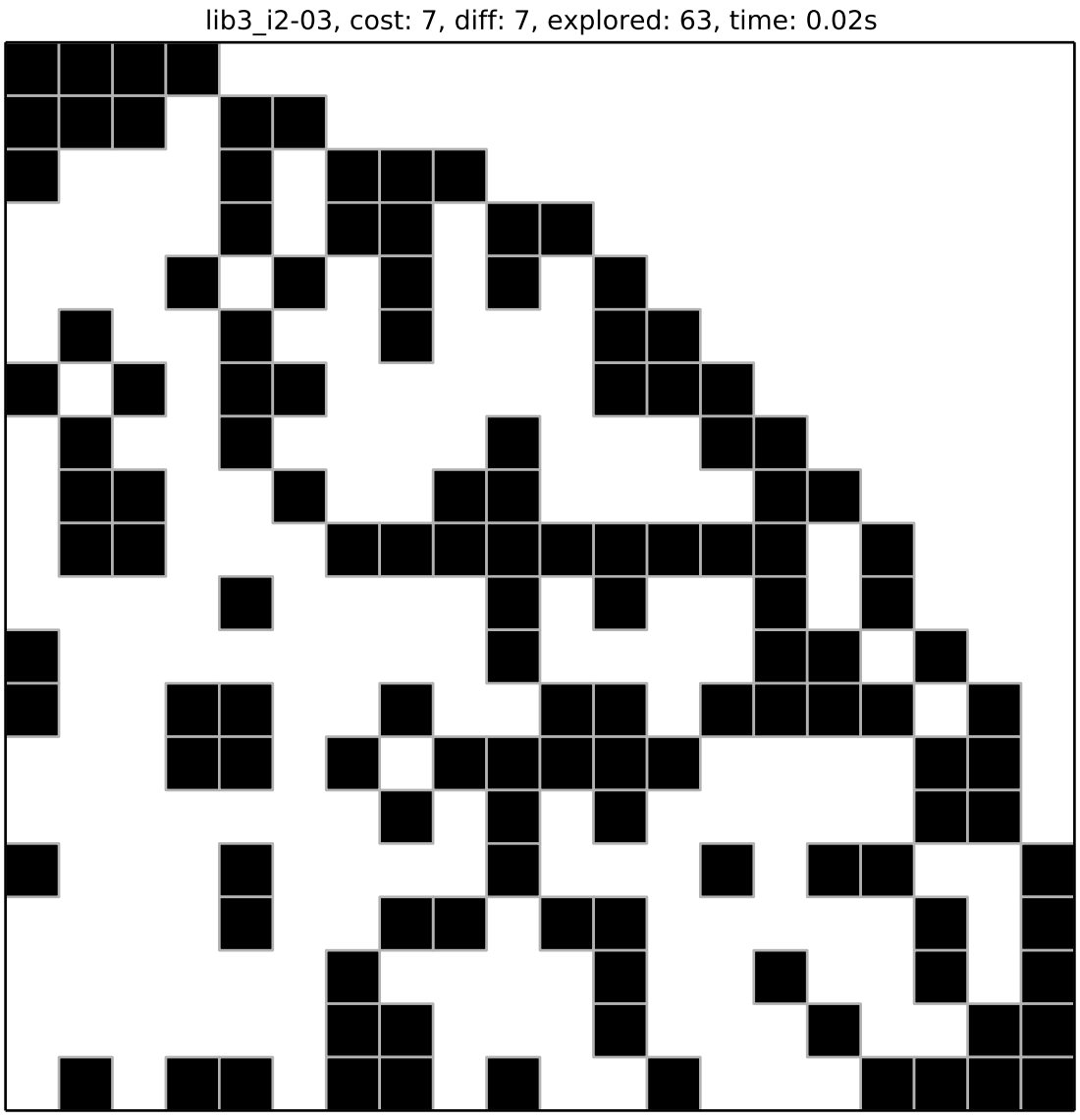


lib3_i2-02, cost: 7, diff: 7, explored: 63, time: 0.02s



lib3_i2-03 20x20 (132) con: 10, var: 10

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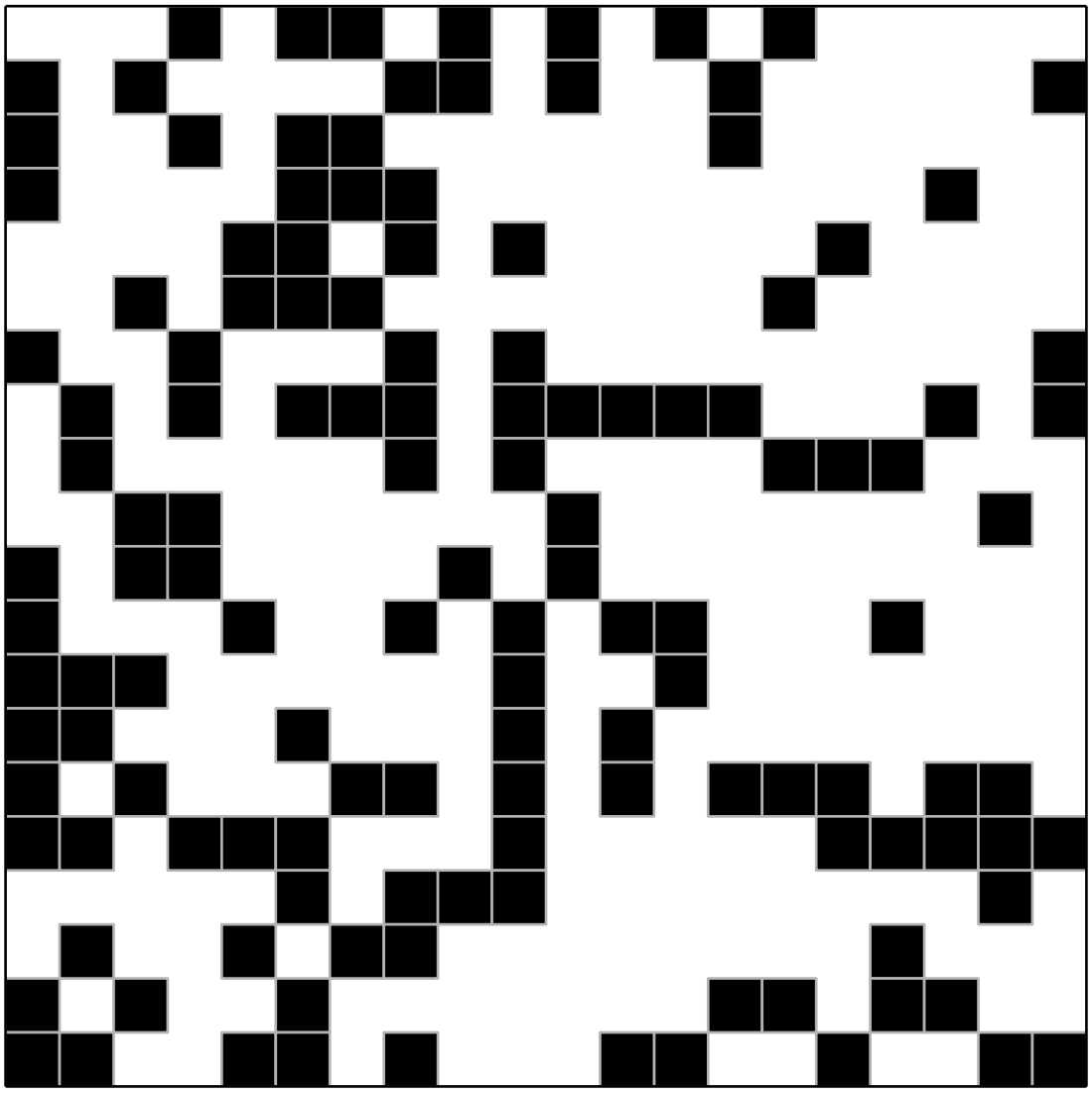
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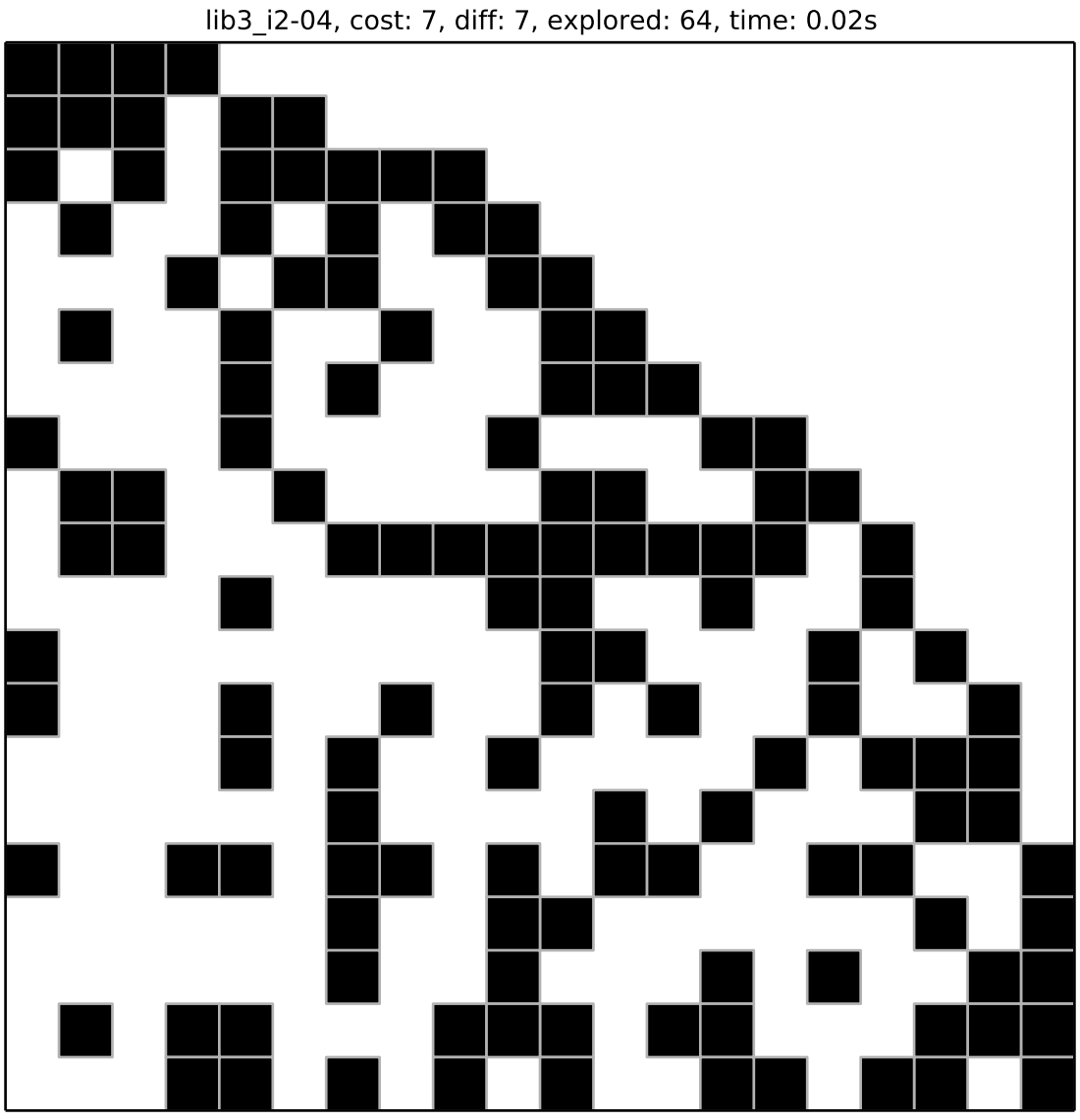
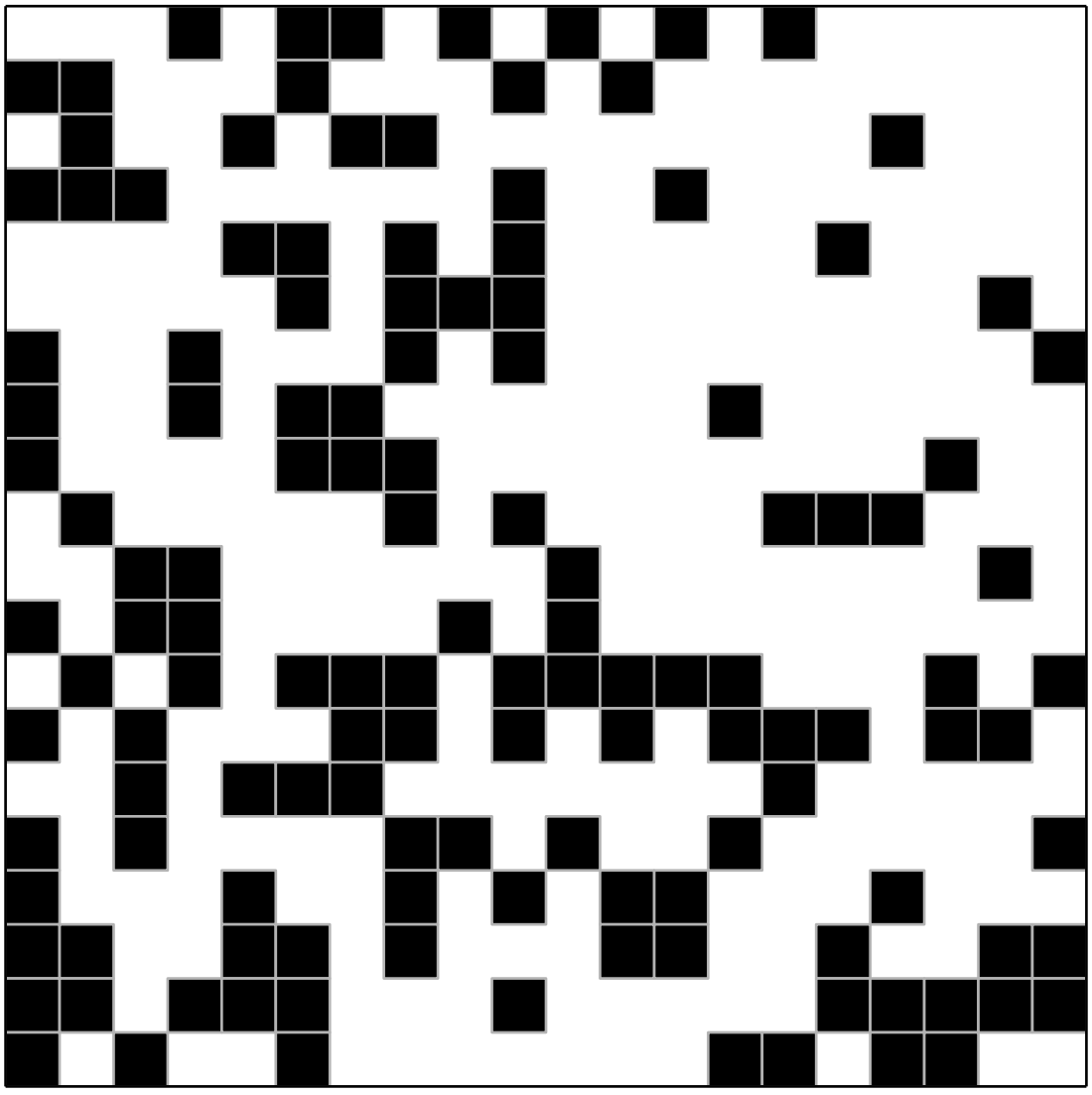

lib3_i2-04, cost: 7, diff: 7, explored: 64, time: 0.02s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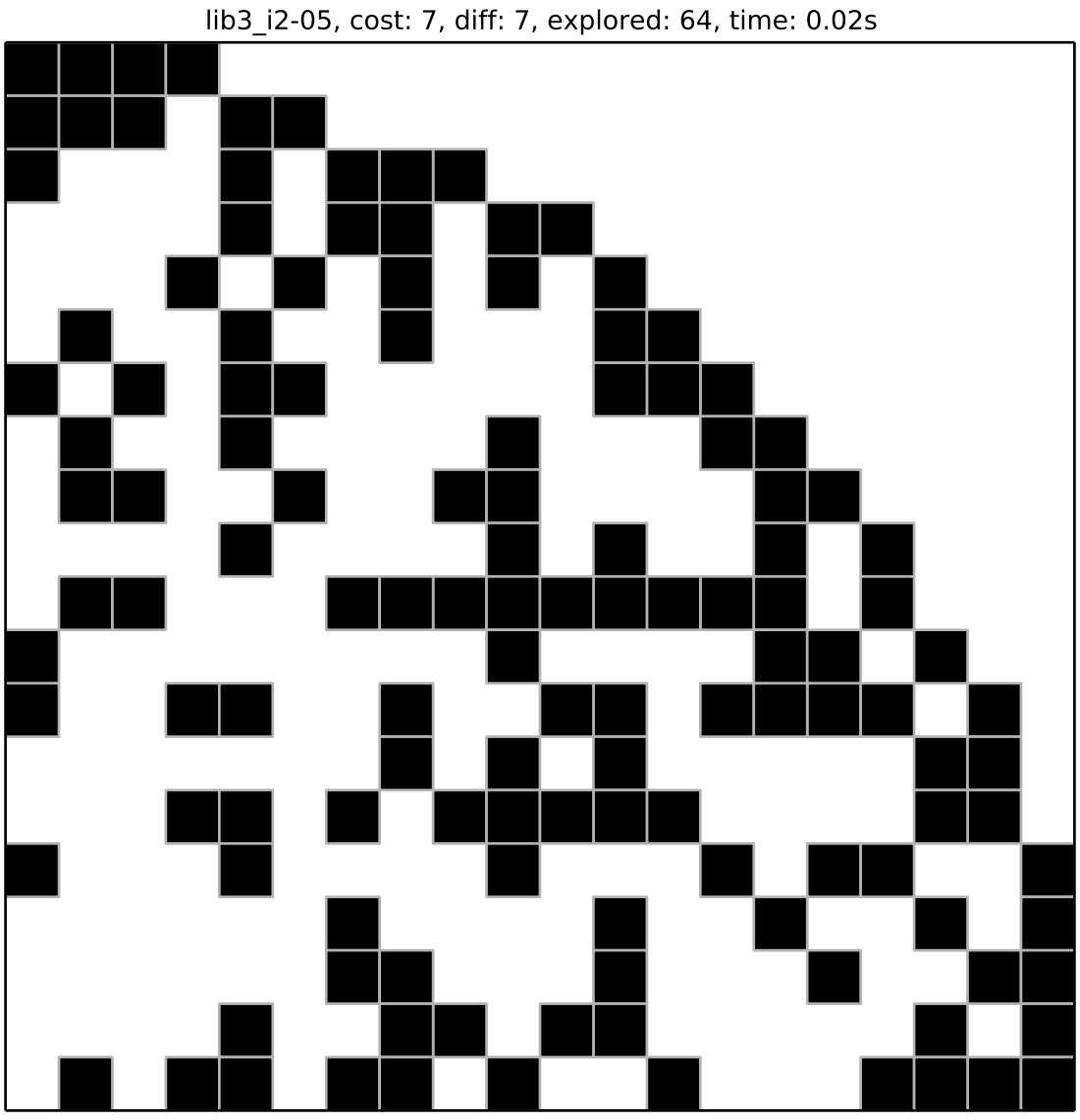
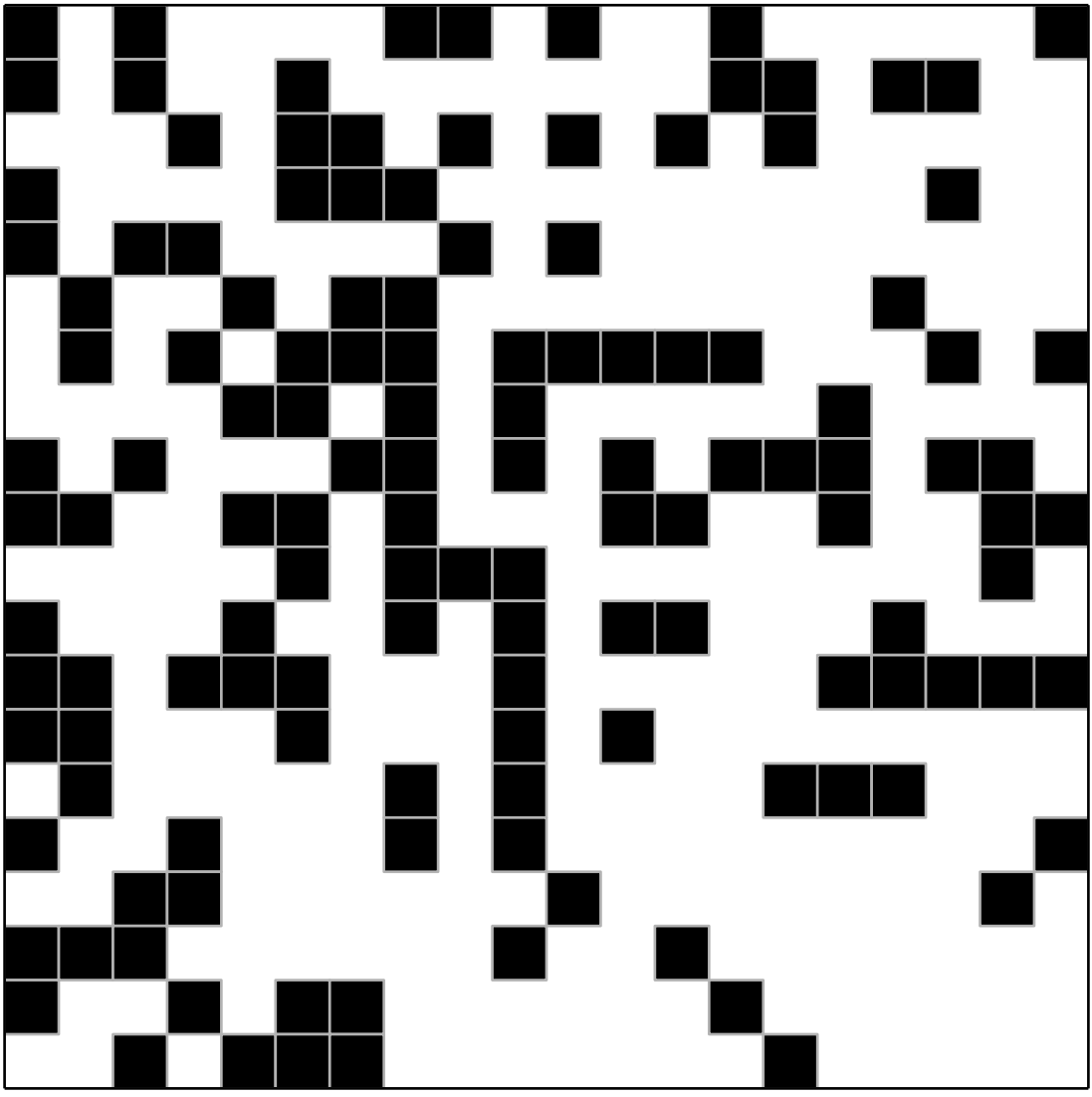

lib3_i2-05, cost: 7, diff: 7, explored: 64, time: 0.02s

lib3_i2-06 20x20 (132) con: 10, var: 10



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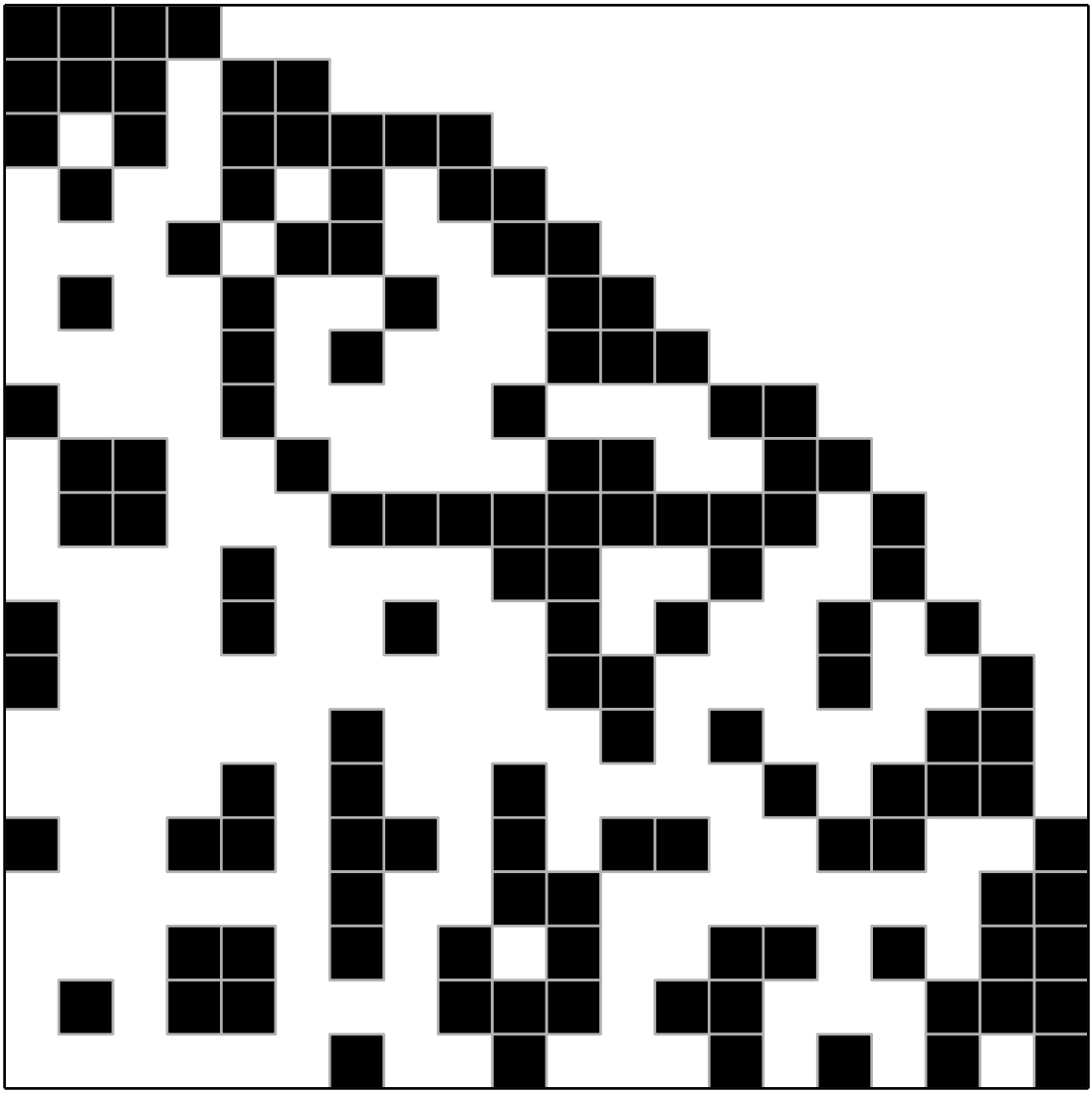
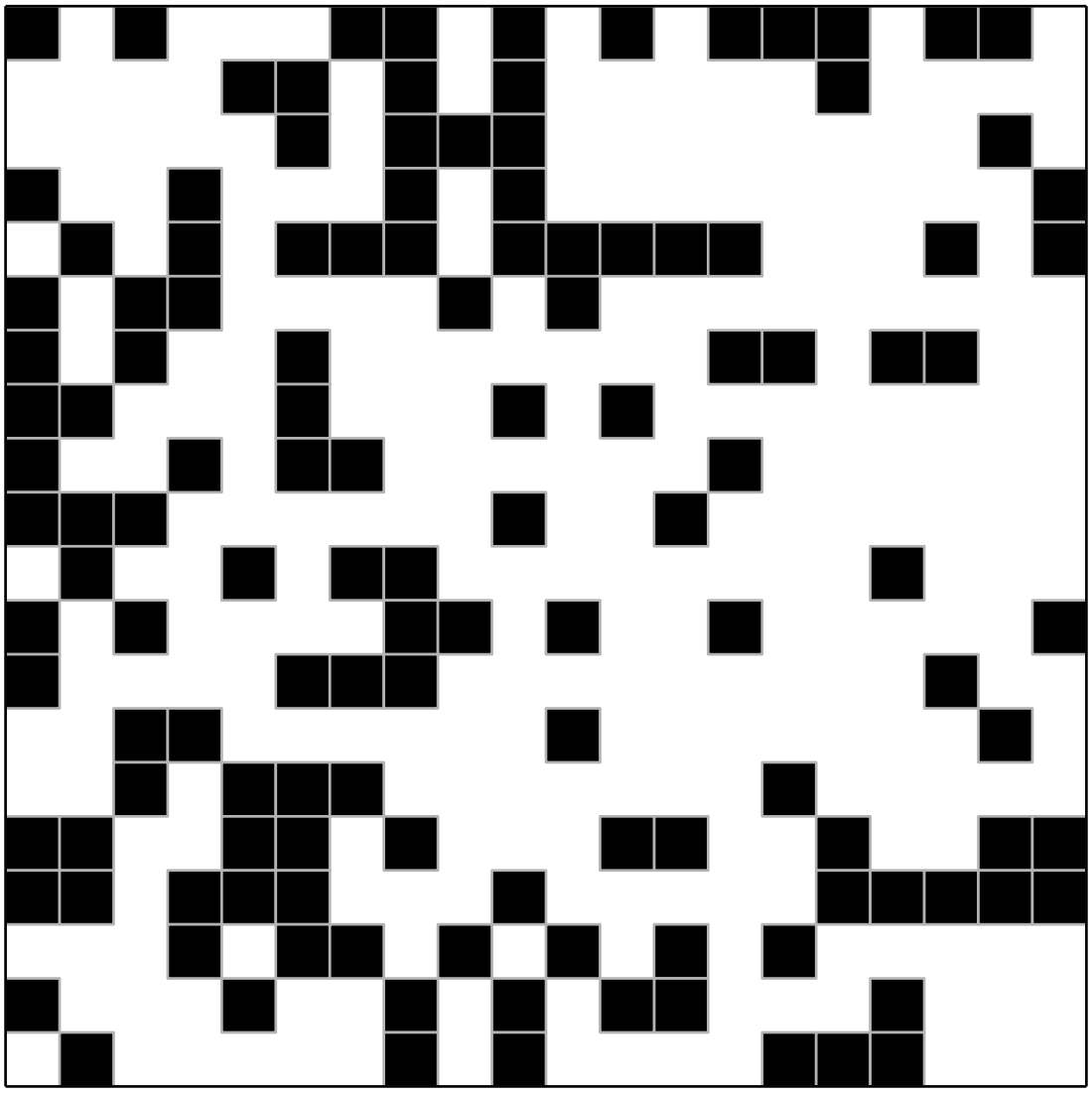
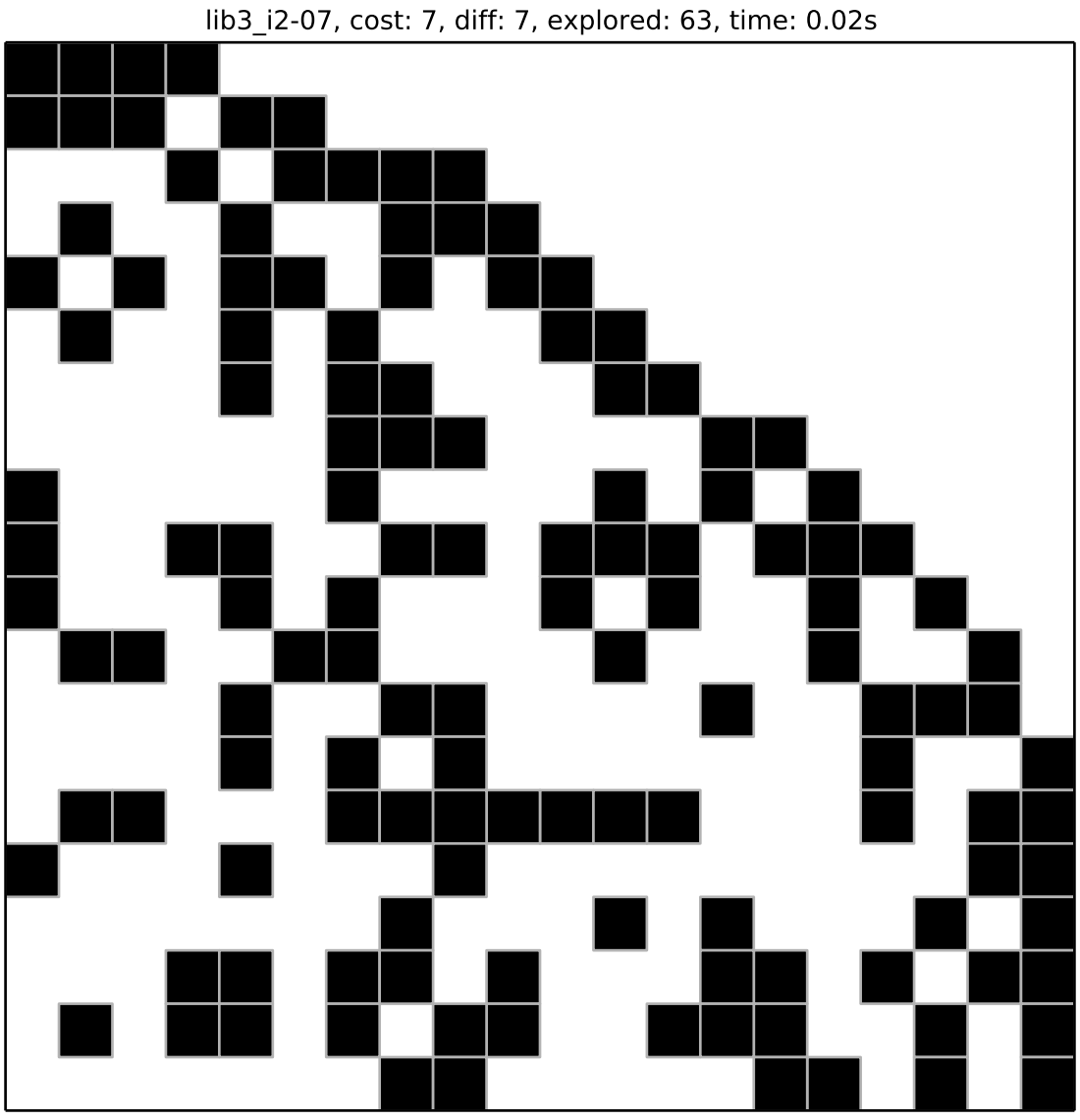



lib3_i2-07 20x20 (132) con: 10, var: 10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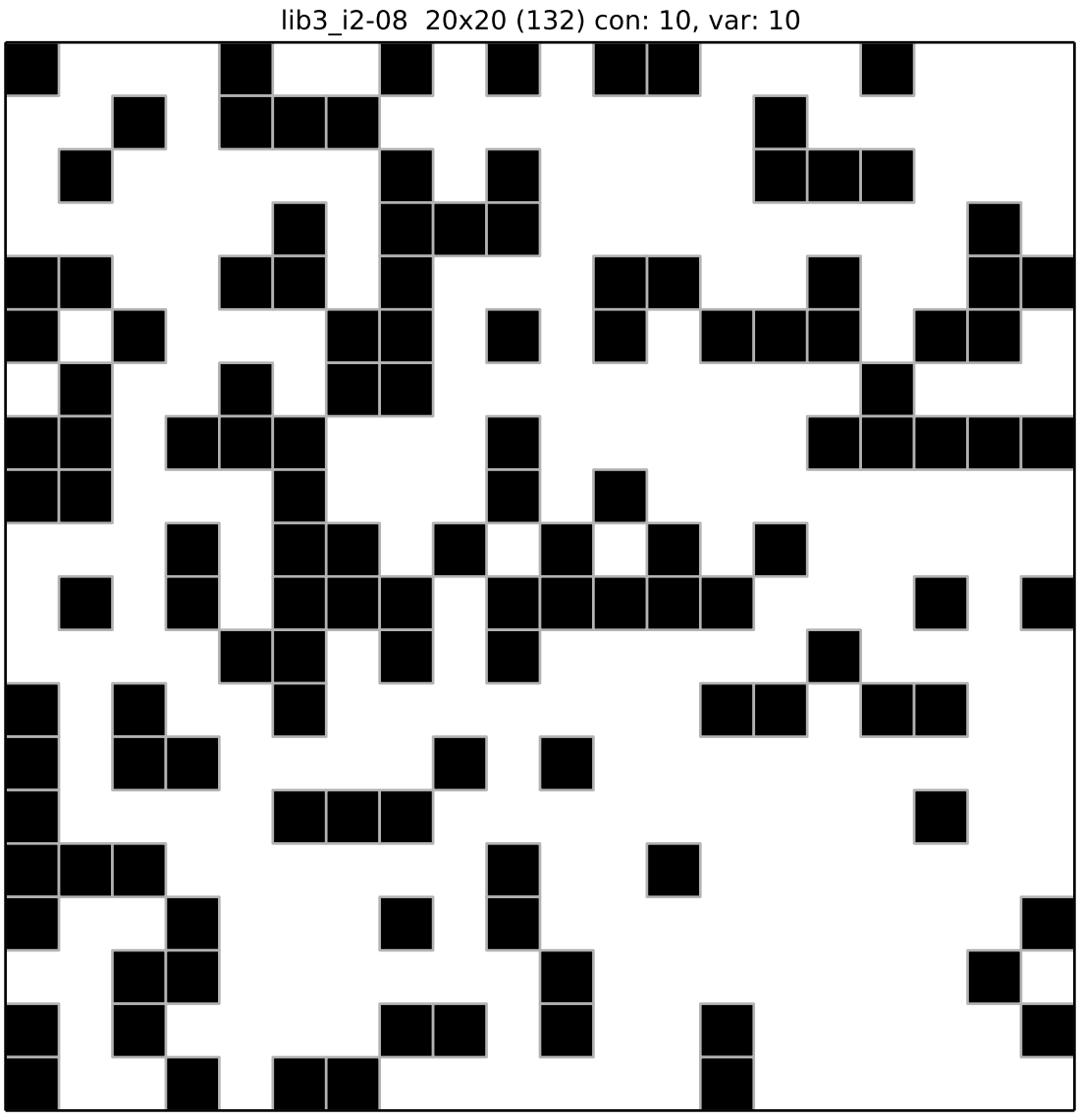
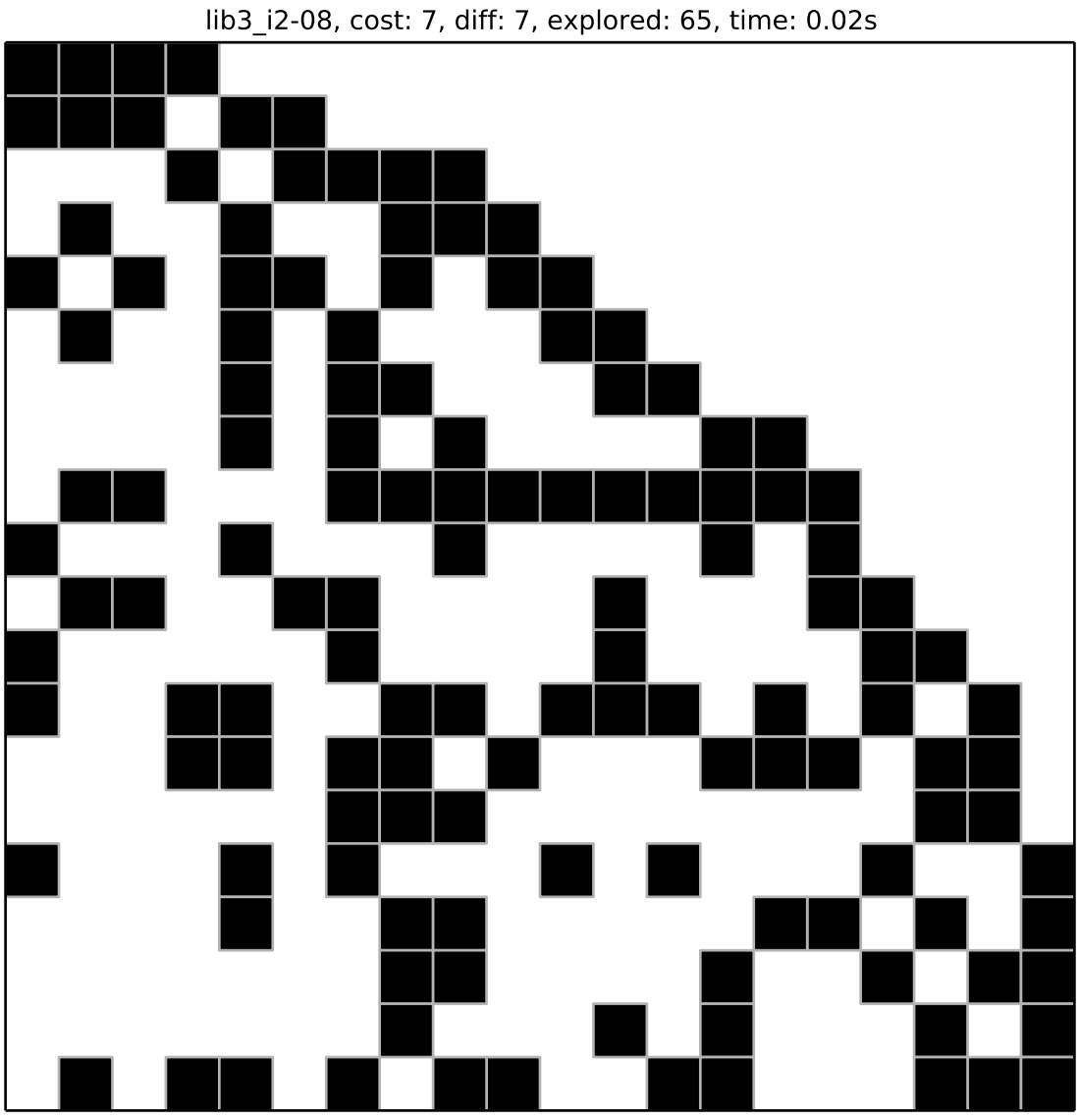
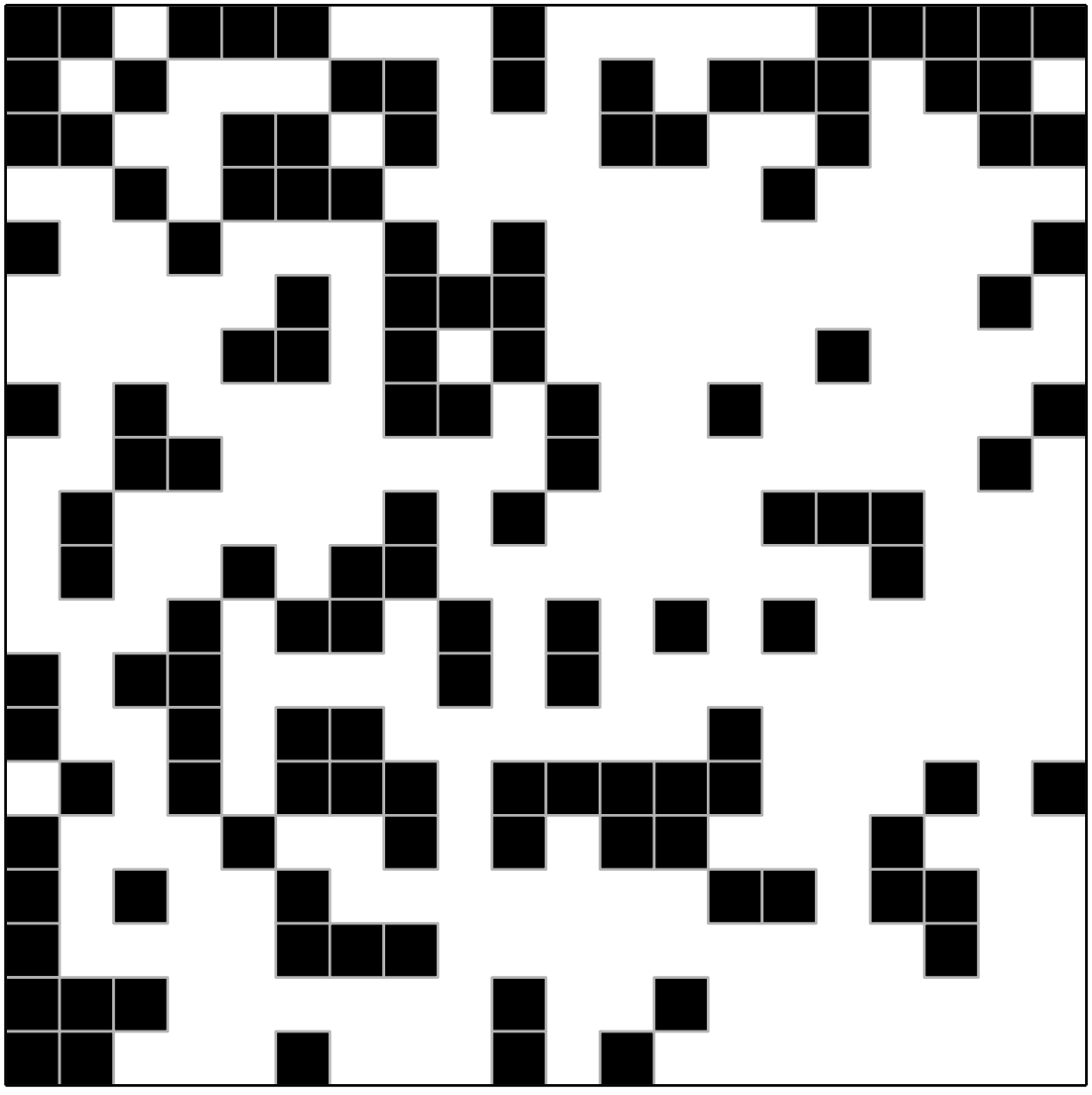
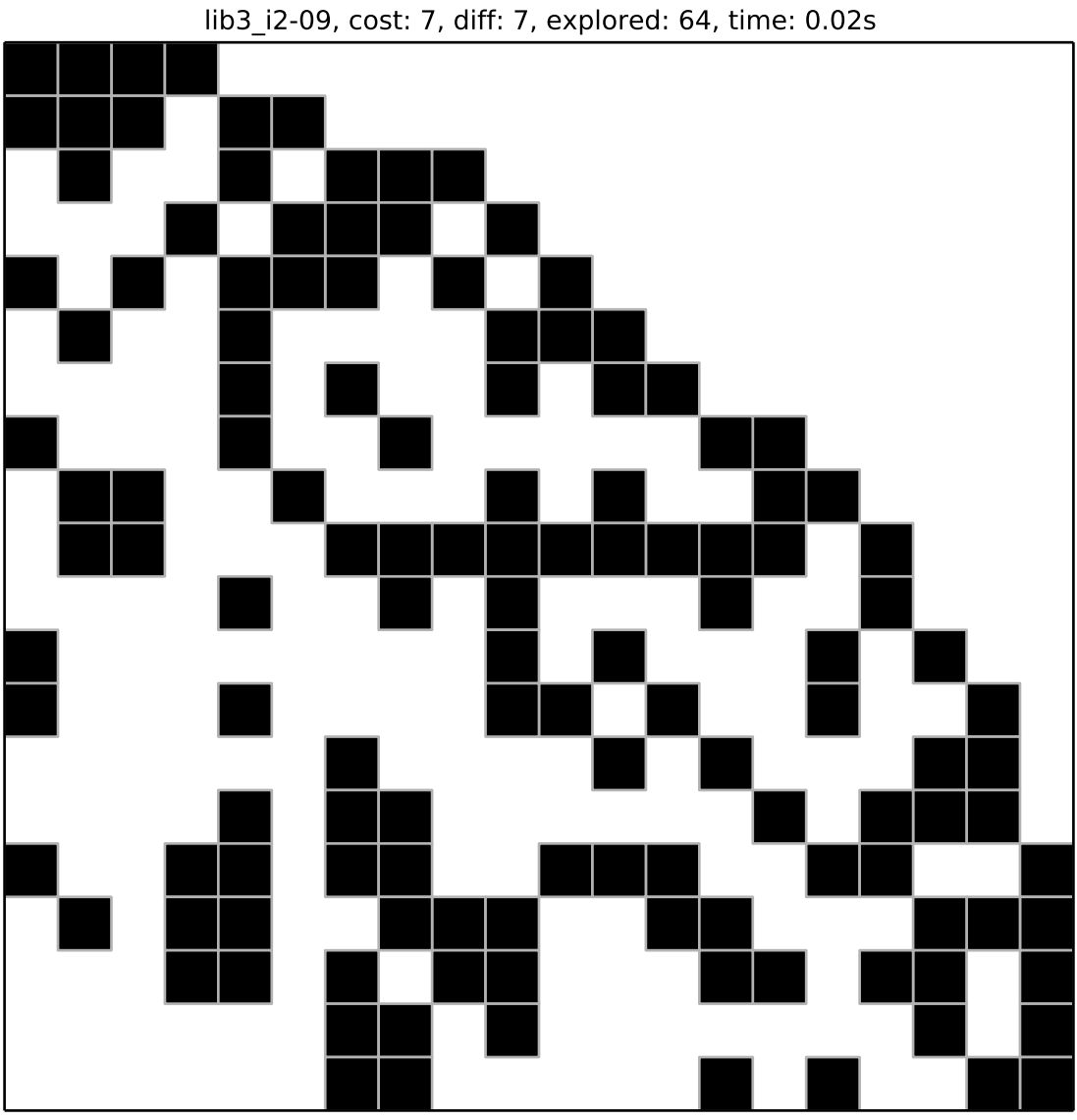

lib3_i2-08 20x20 (132) con: 10, var: 10


lib3_i2-08, cost: 7, diff: 7, explored: 65, time: 0.02s

lib3_i2-09 20x20 (132) con: 10, var: 10

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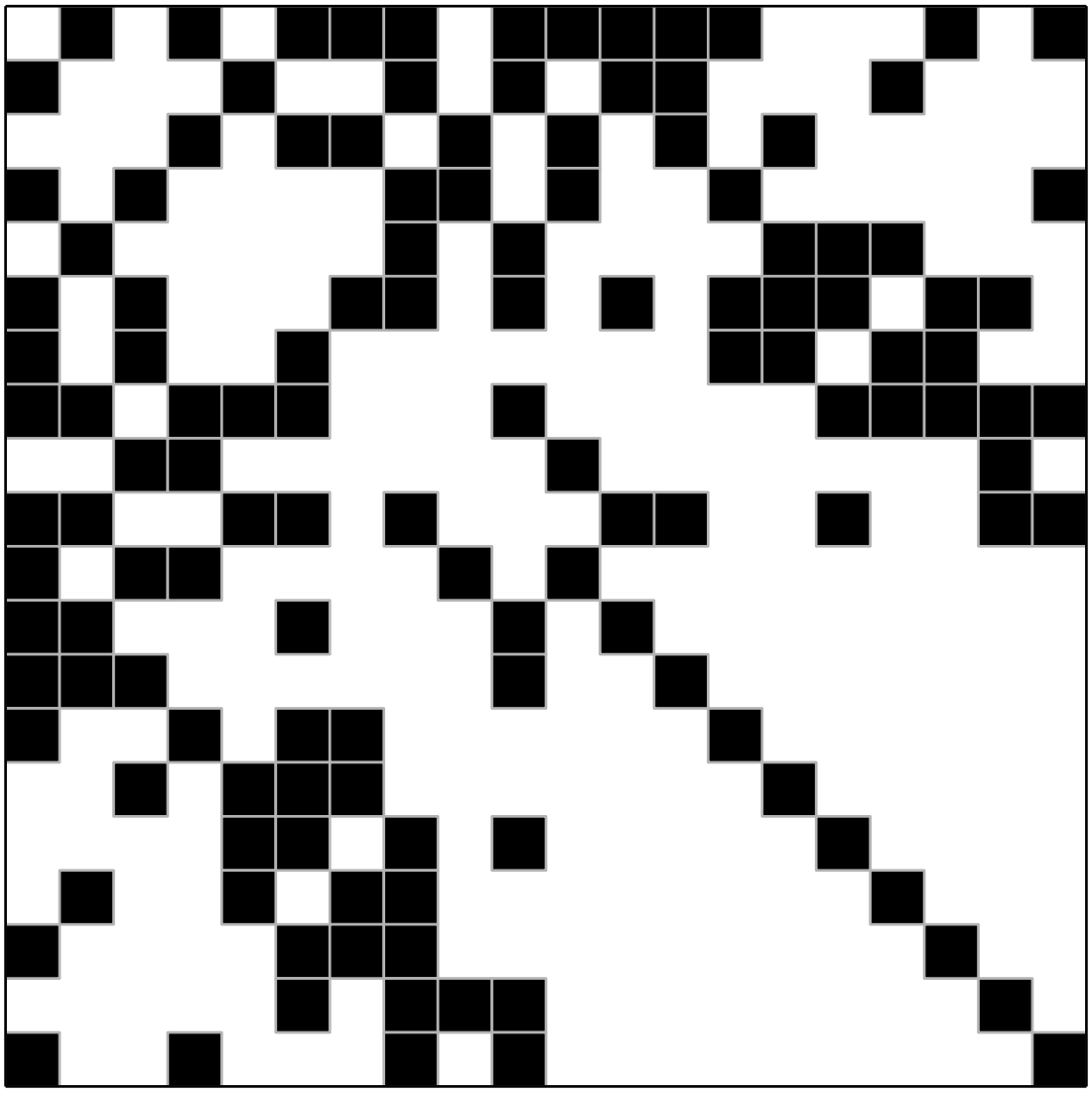
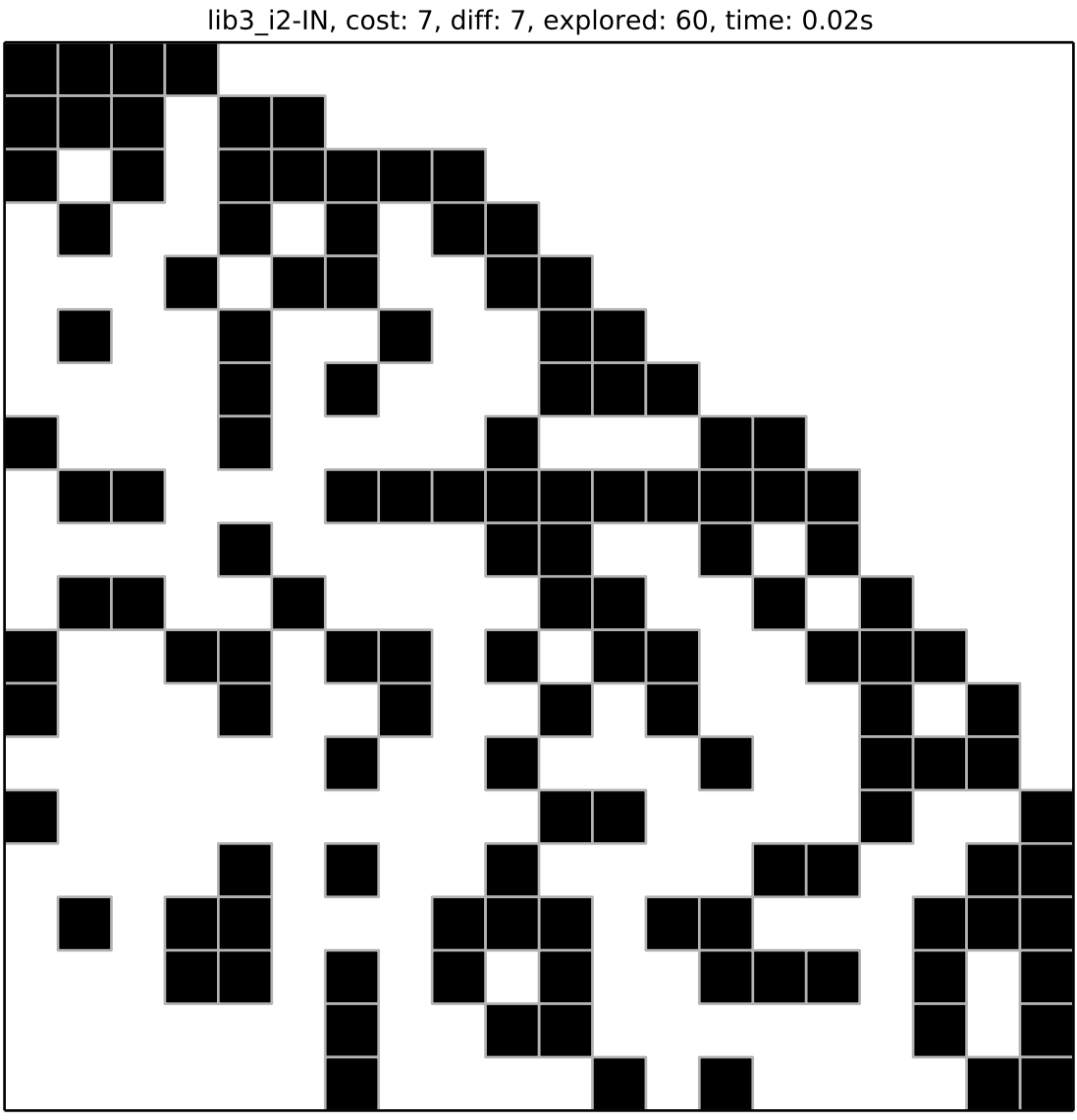
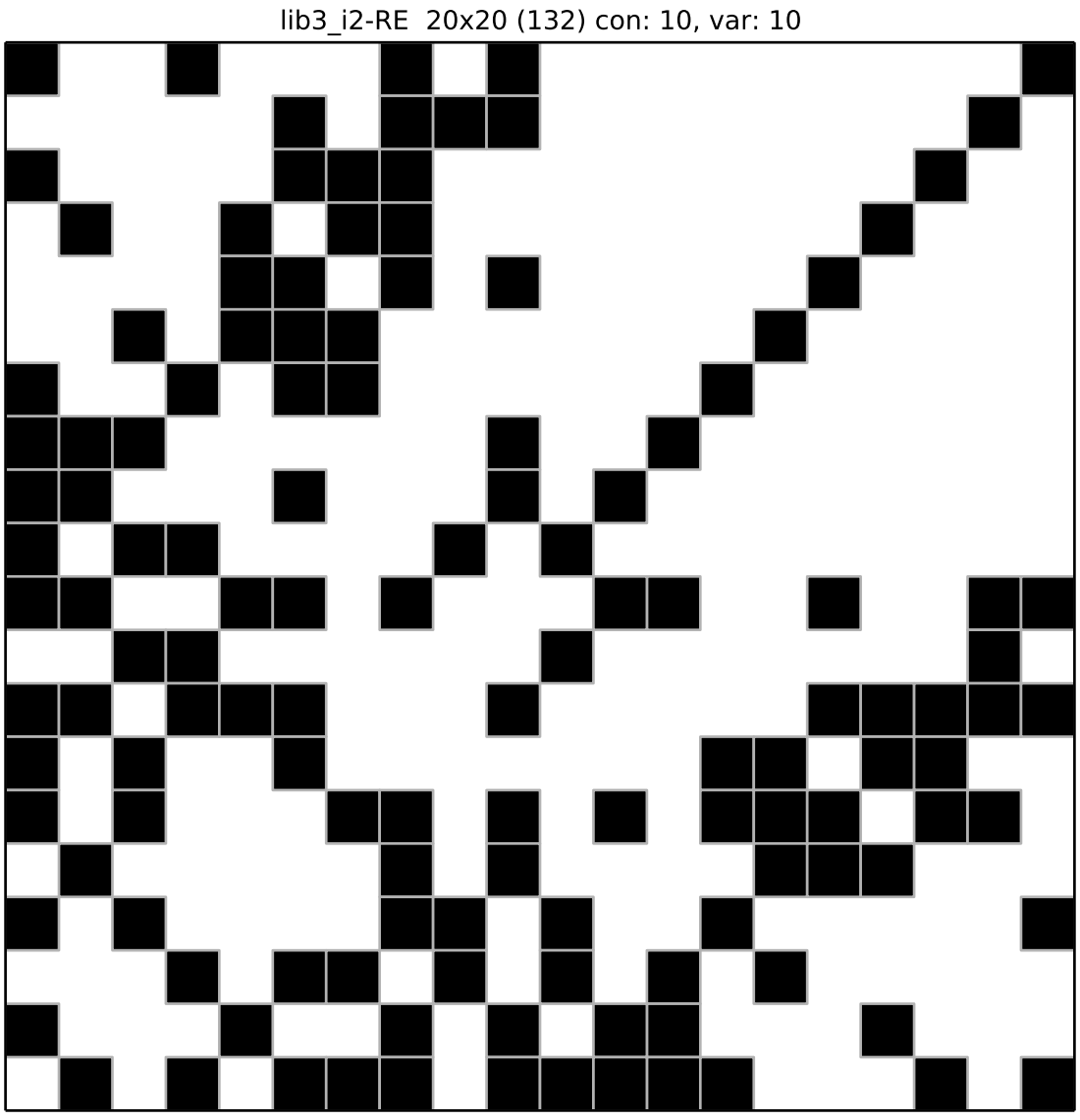
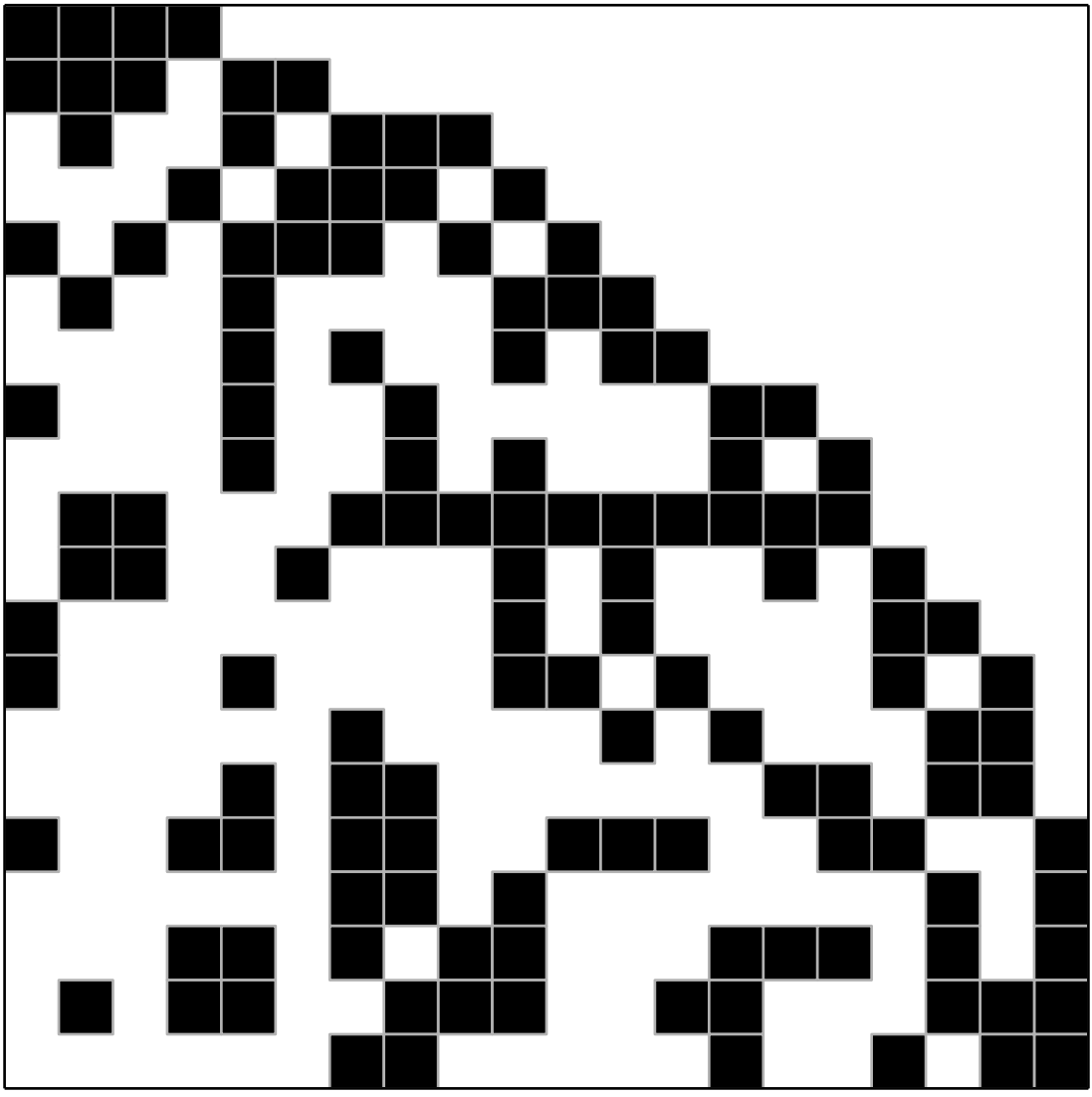
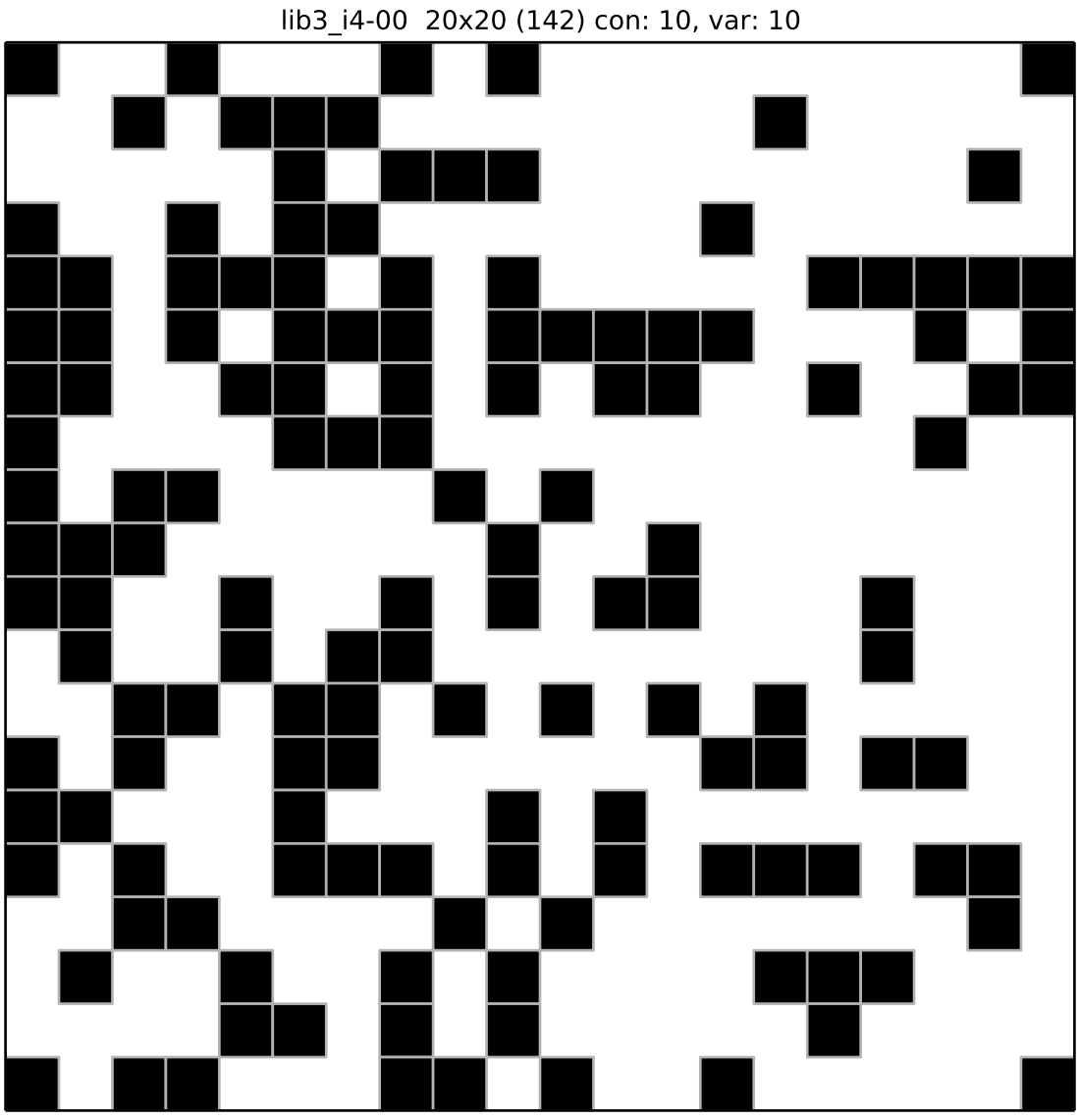

lib3_i2-IN 20x20 (132) con: 10, var: 10


lib3_i2-IN, cost: 7, diff: 7, explored: 60, time: 0.02s

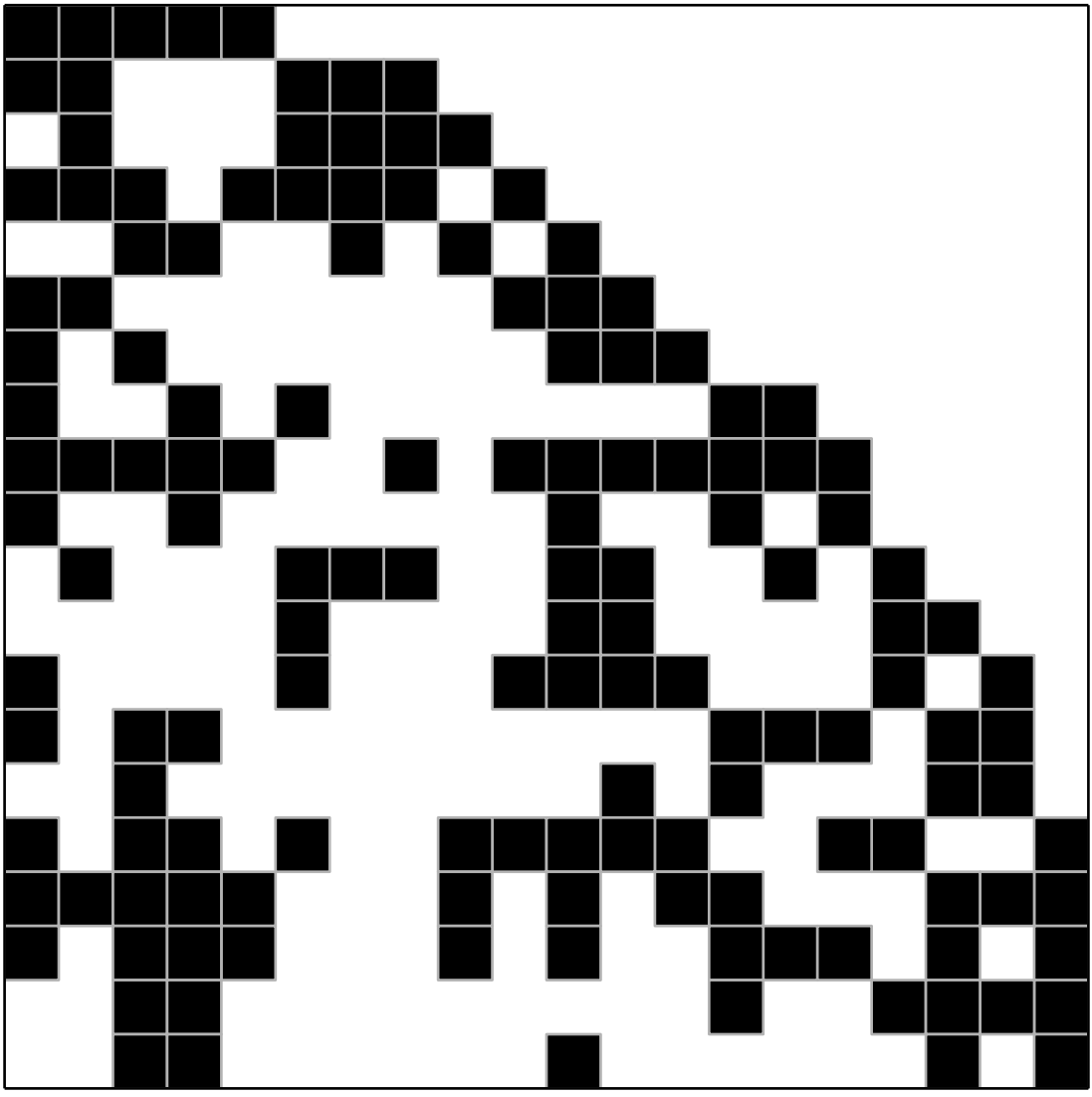

lib3_i2-RE 20x20 (132) con: 10, var: 10

lib3_i2-RE, cost: 7, diff: 7, explored: 64, time: 0.02s

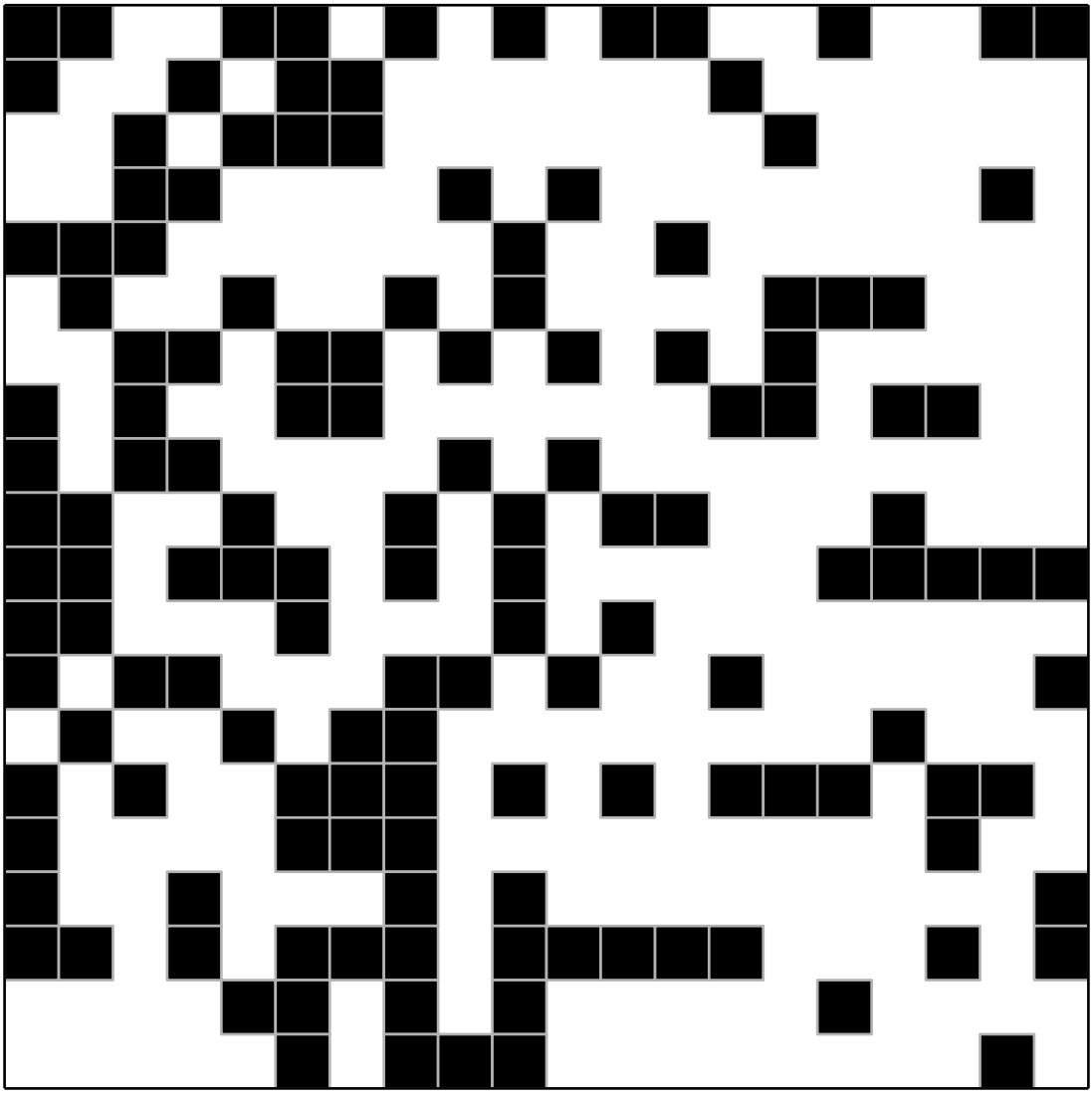


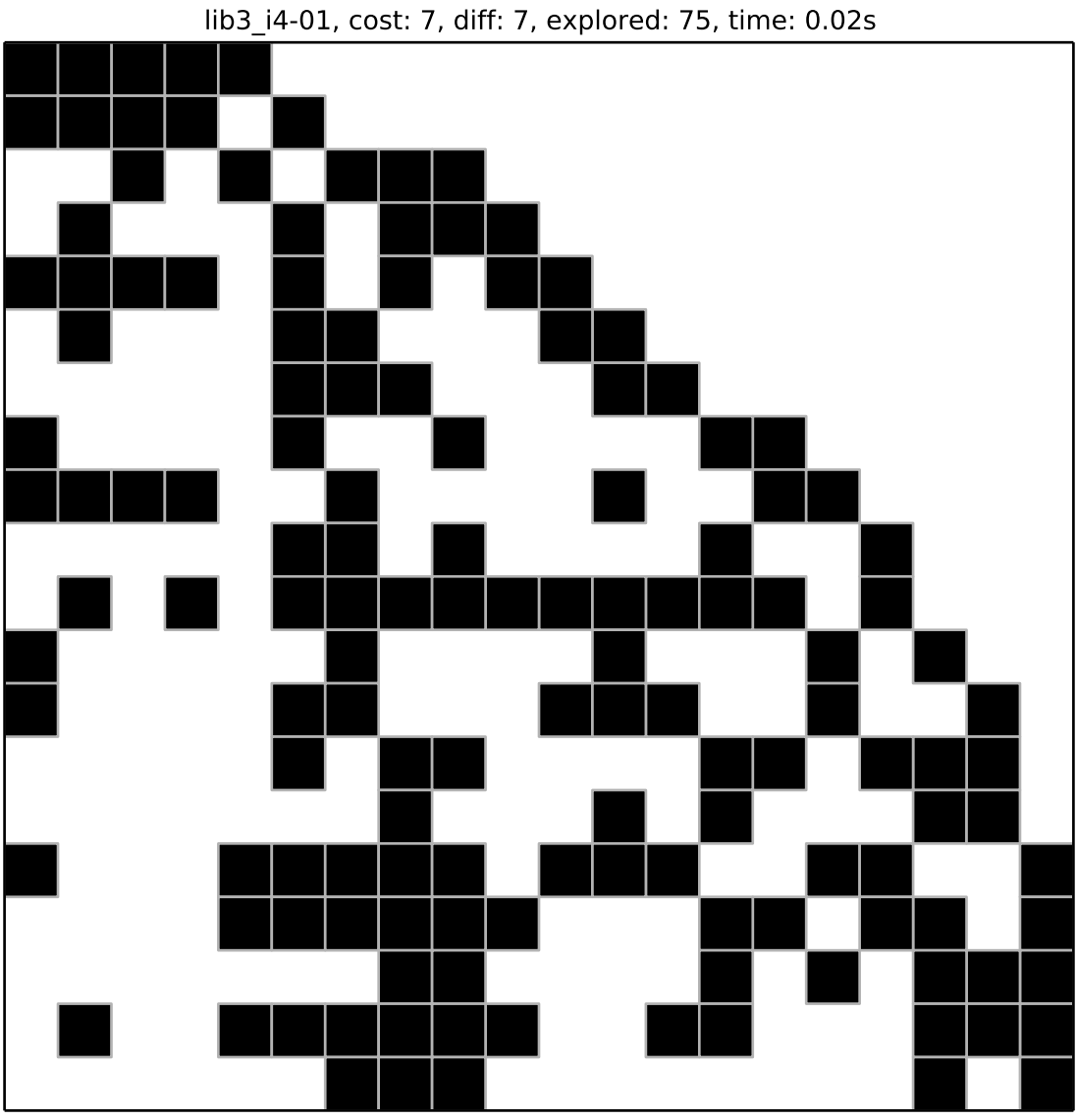

lib3_i4-00 20x20 (142) con: 10, var: 10

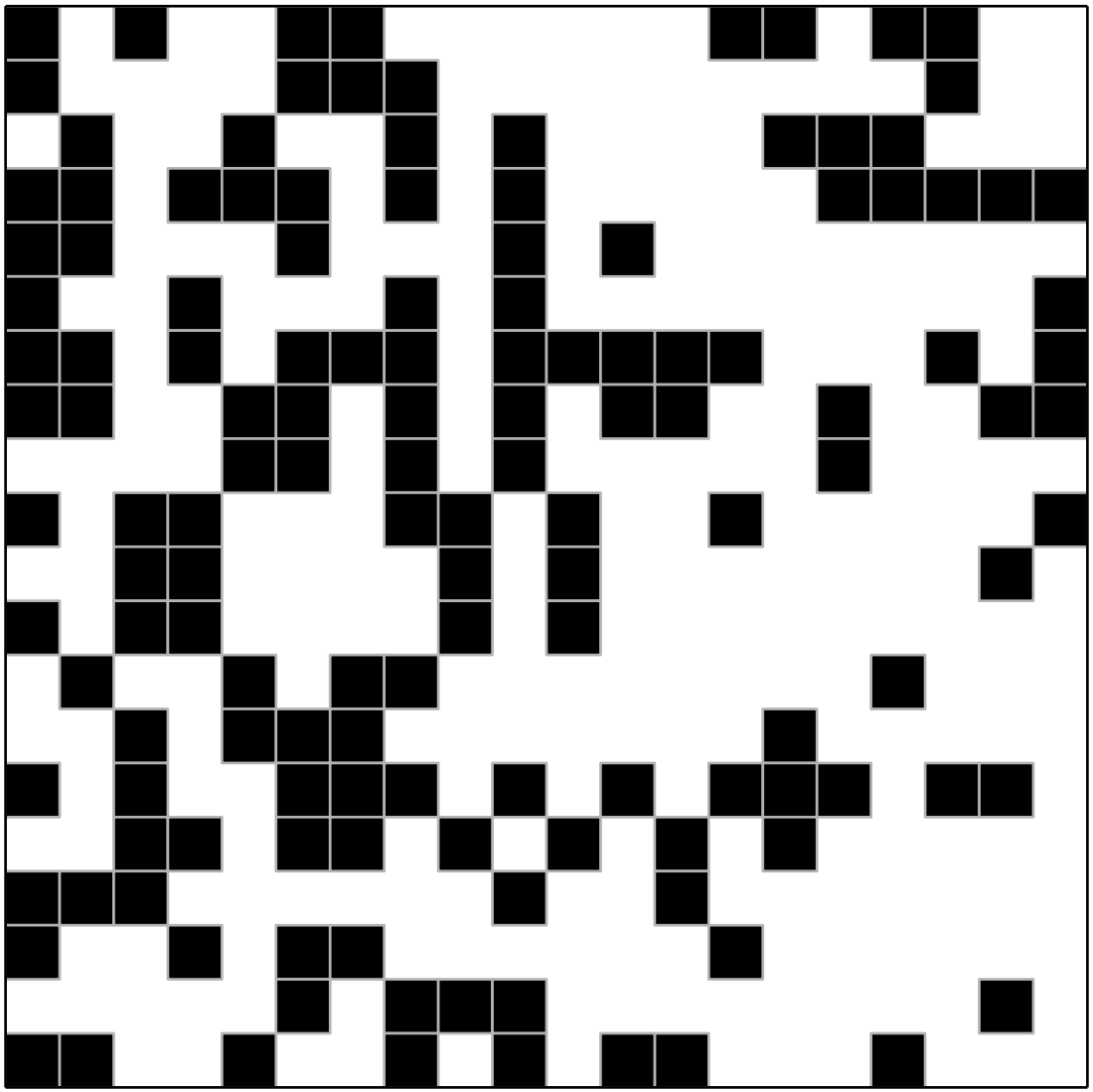
lib3_i4-00, cost: 7, diff: 7, explored: 68, time: 0.02s



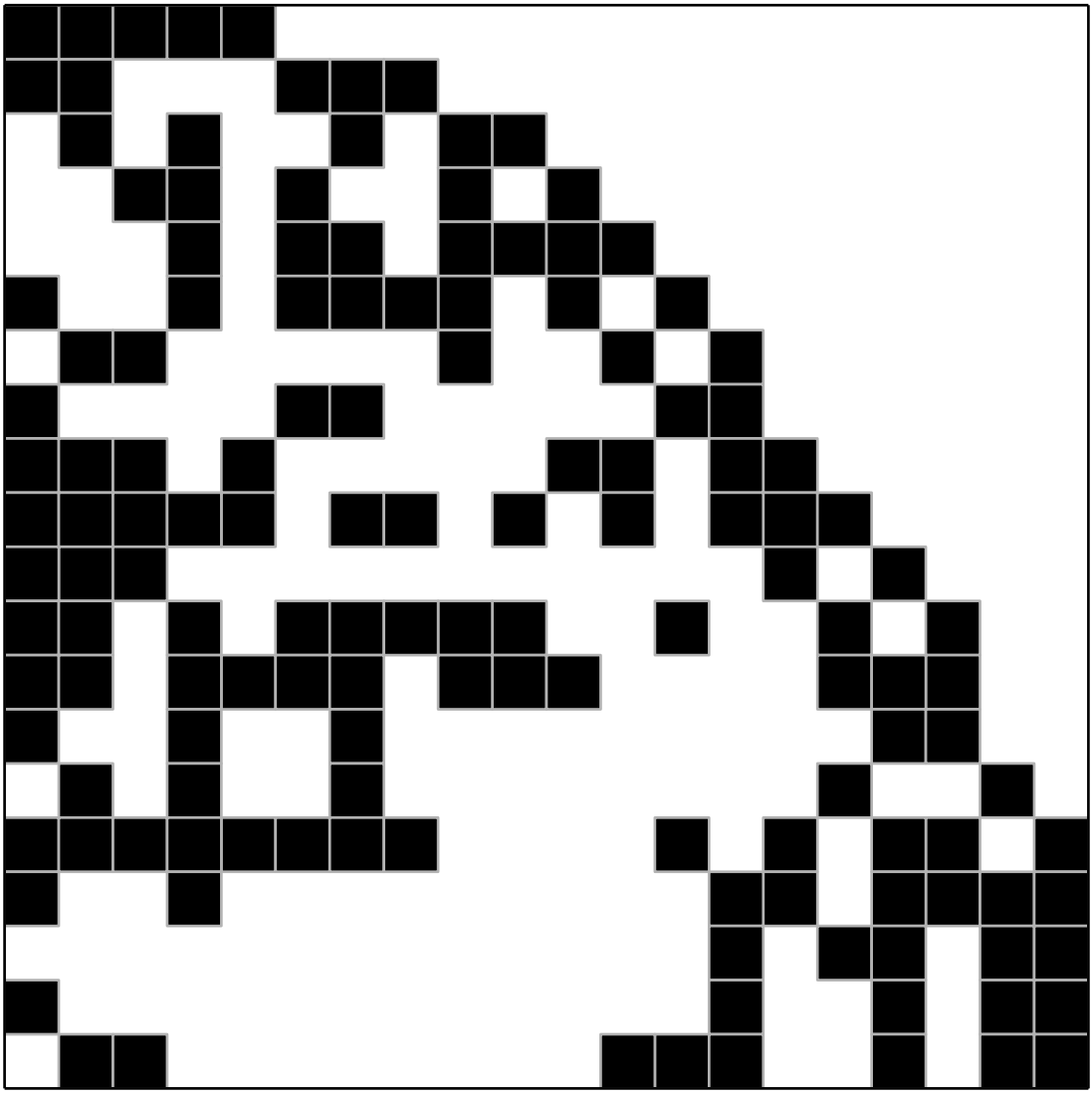
lib3_i4-01 20x20 (142) con: 10, var: 10

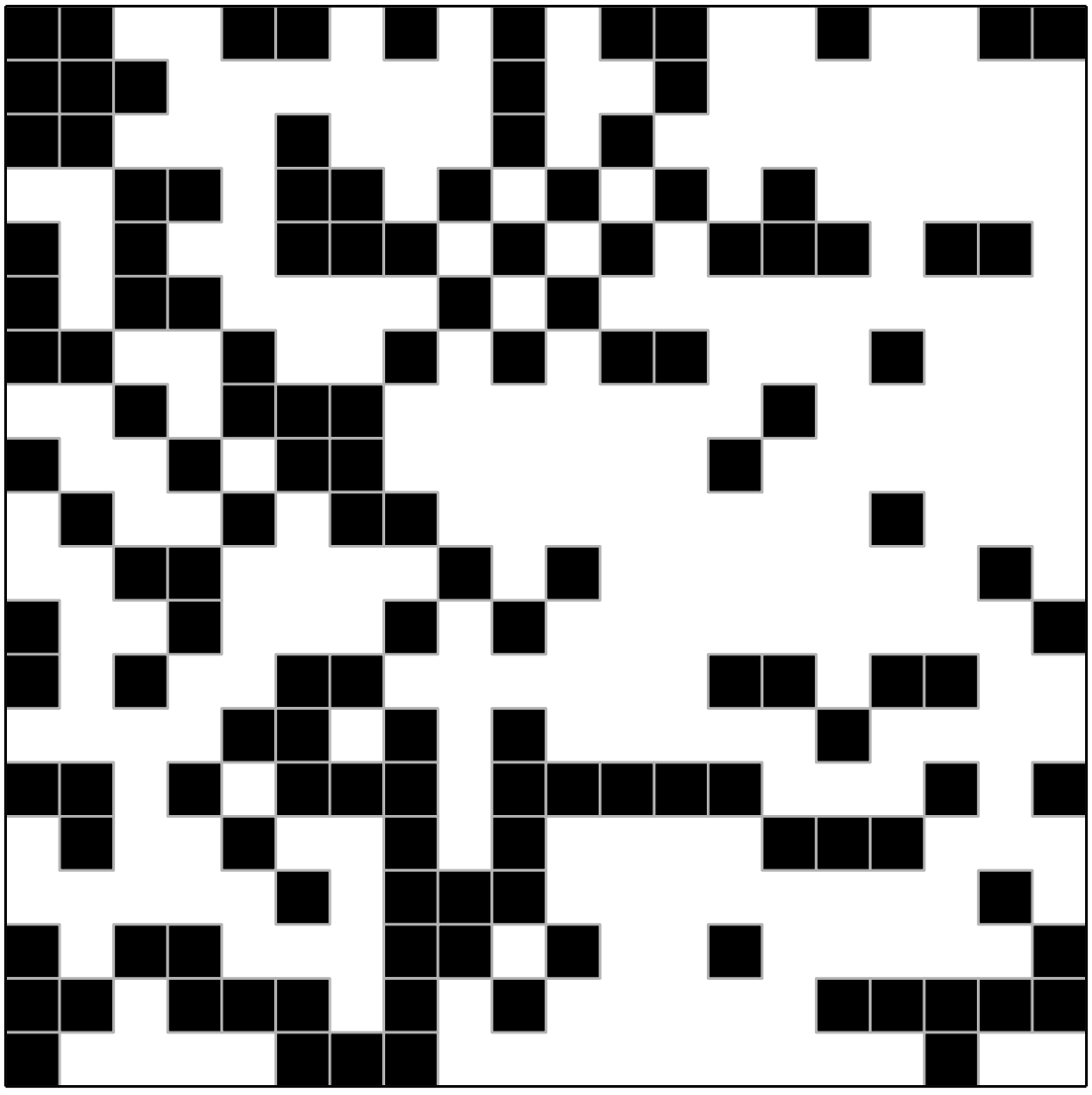


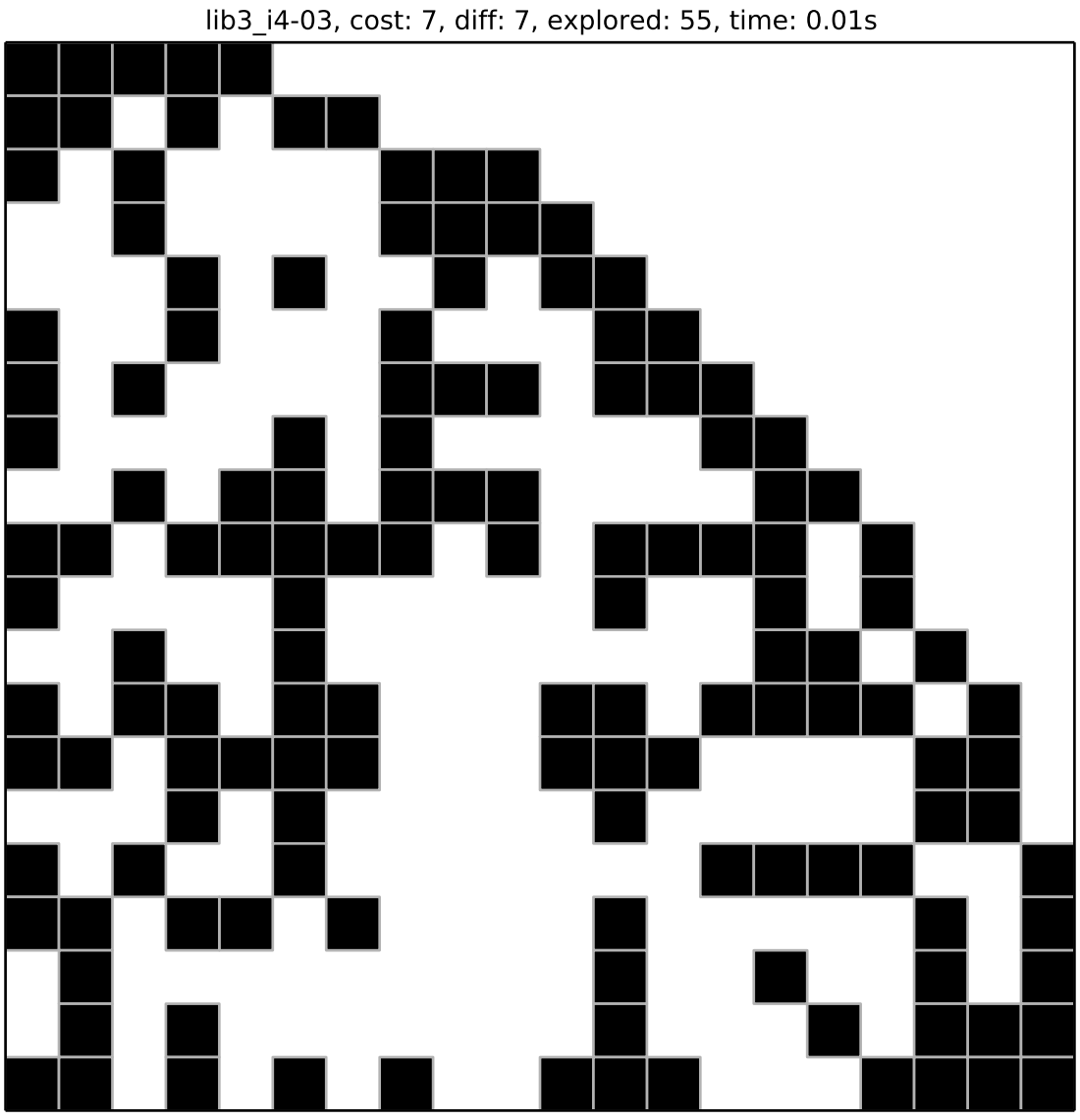

lib3_i4-01, cost: 7, diff: 7, explored: 75, time: 0.02s

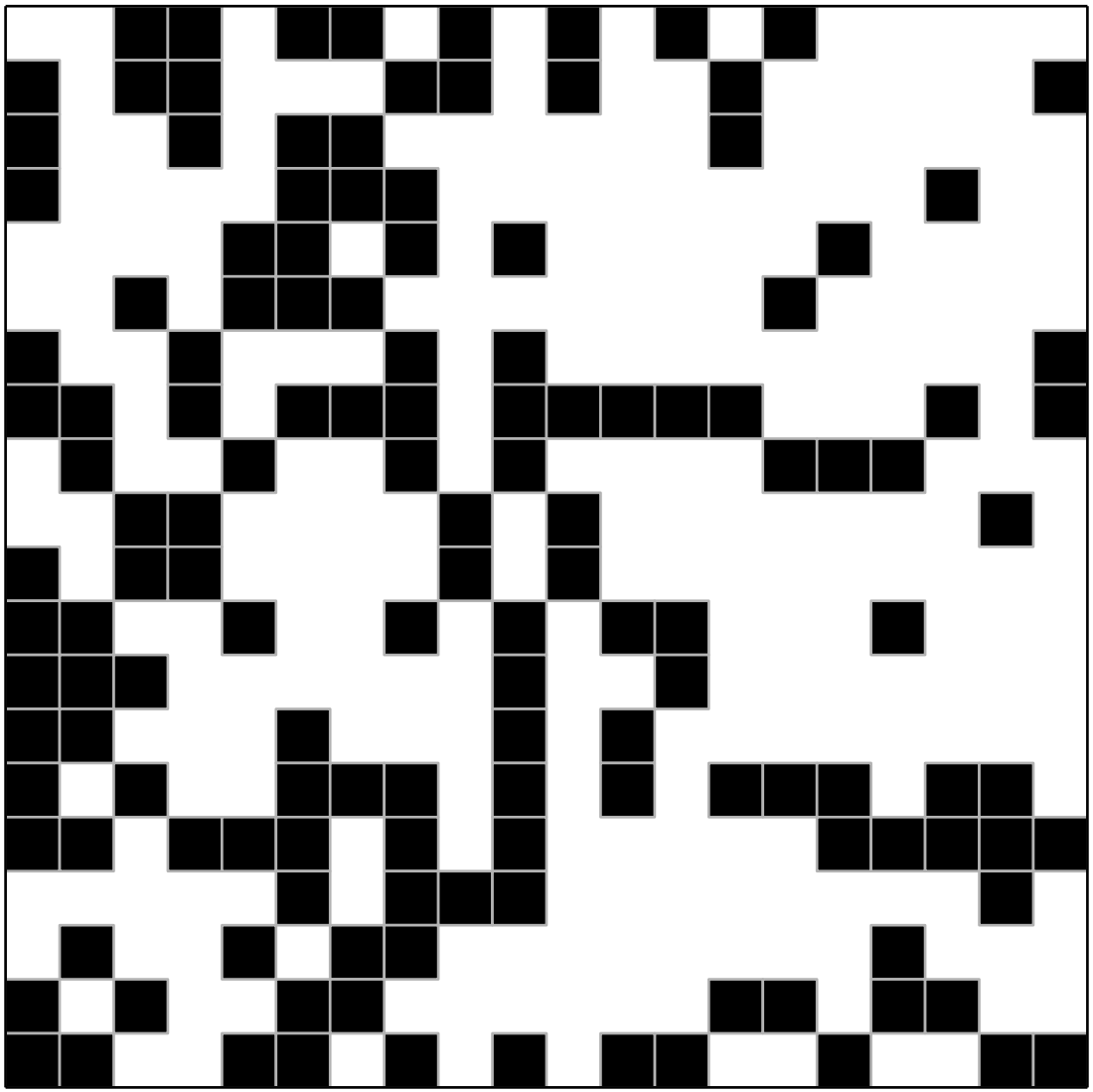

lib3_i4-02 20x20 (142) con: 10, var: 10

lib3_i4-02, cost: 7, diff: 7, explored: 62, time: 0.02s

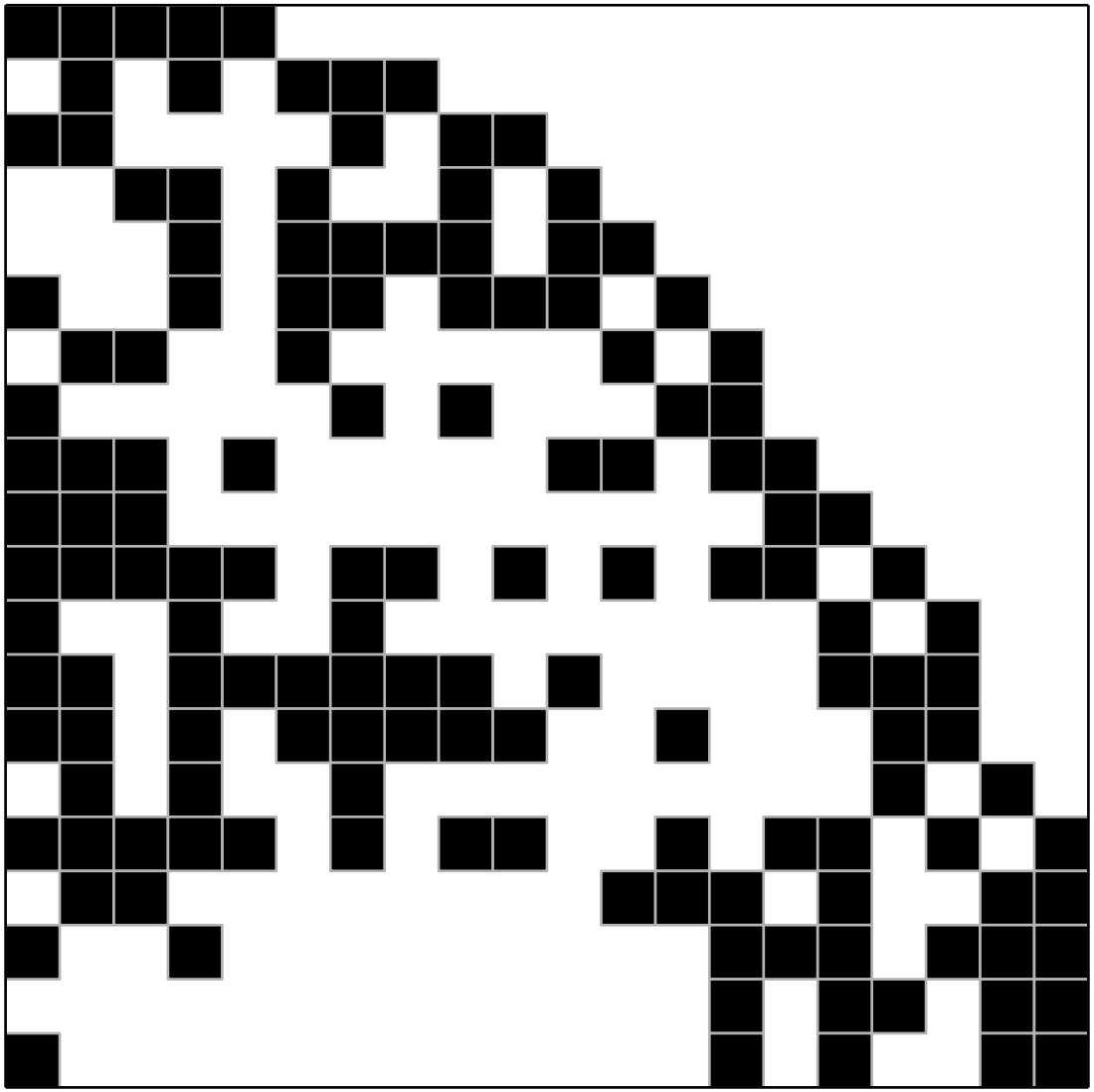


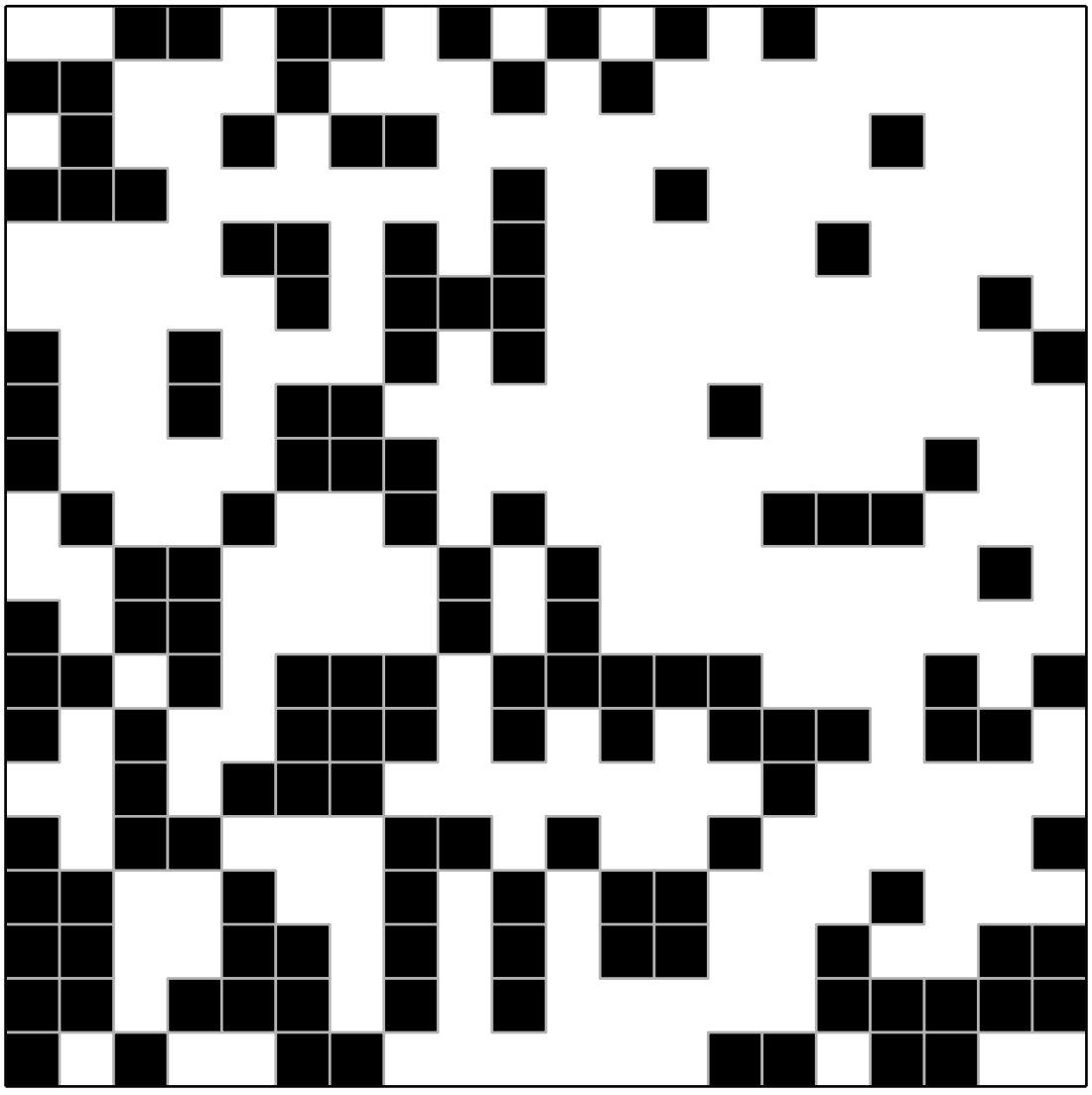

lib3_i4-03 20x20 (142) con: 10, var: 10

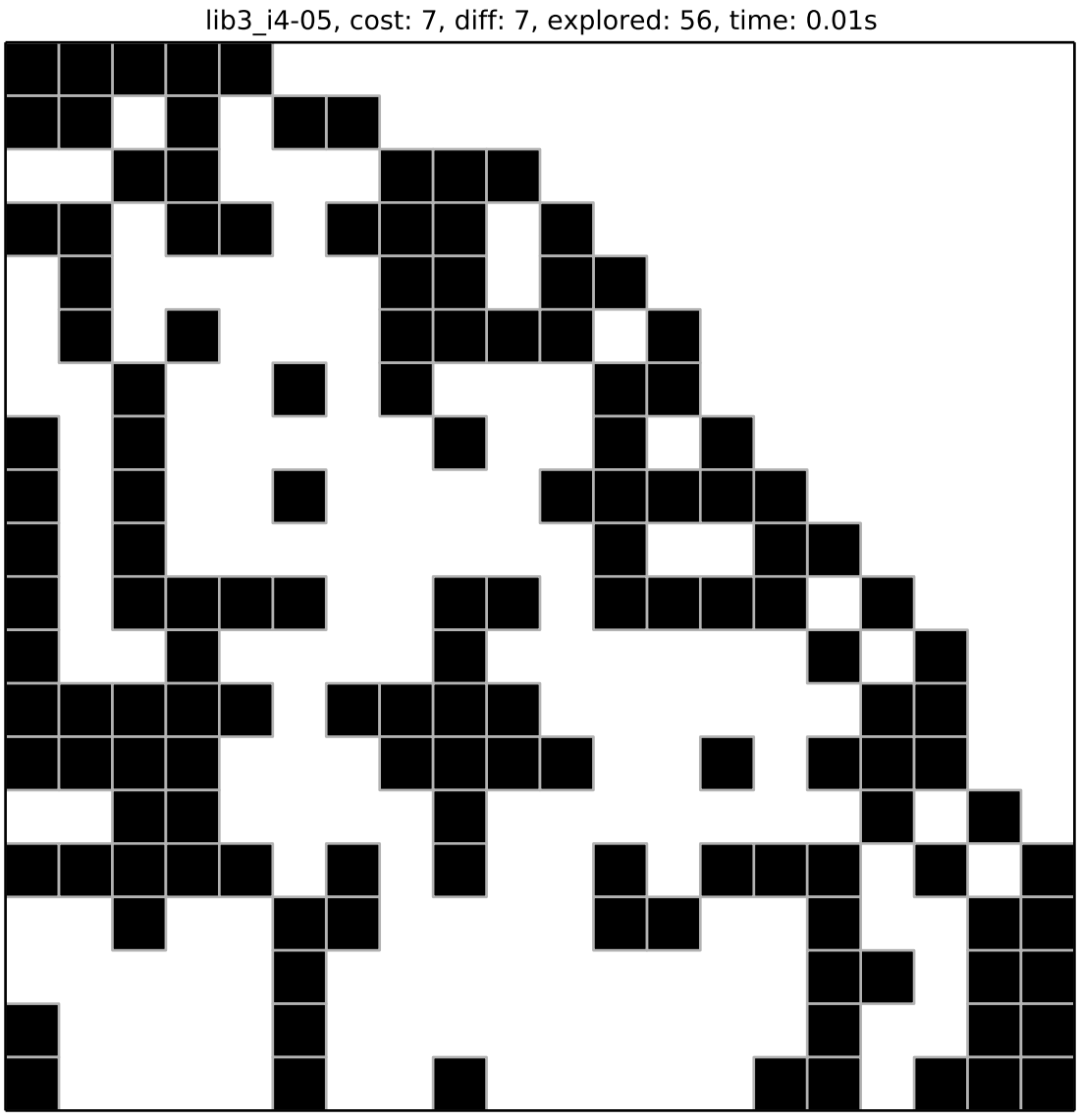

lib3_i4-03, cost: 7, diff: 7, explored: 55, time: 0.01s

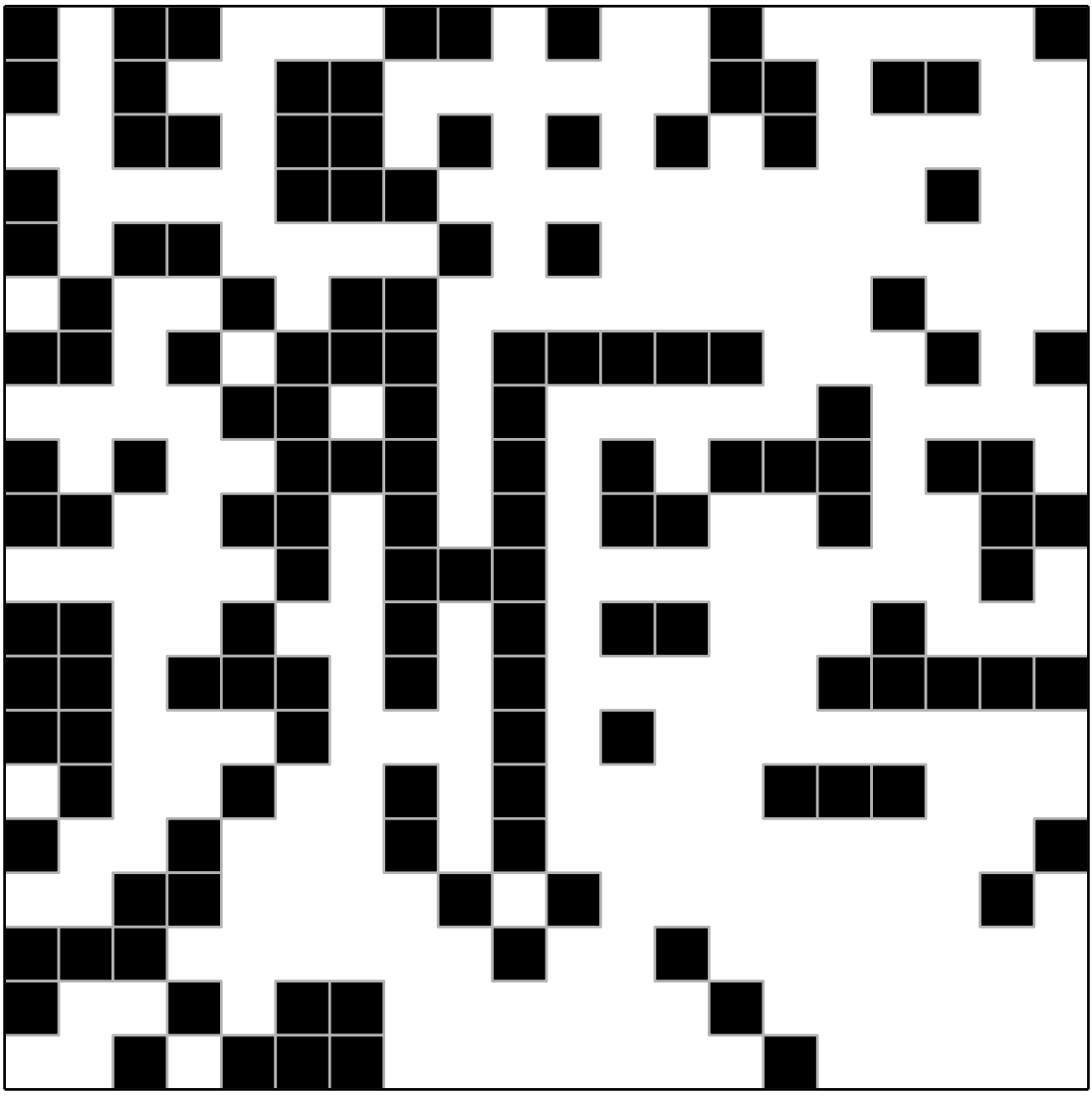

lib3_i4-04 20x20 (142) con: 10, var: 10

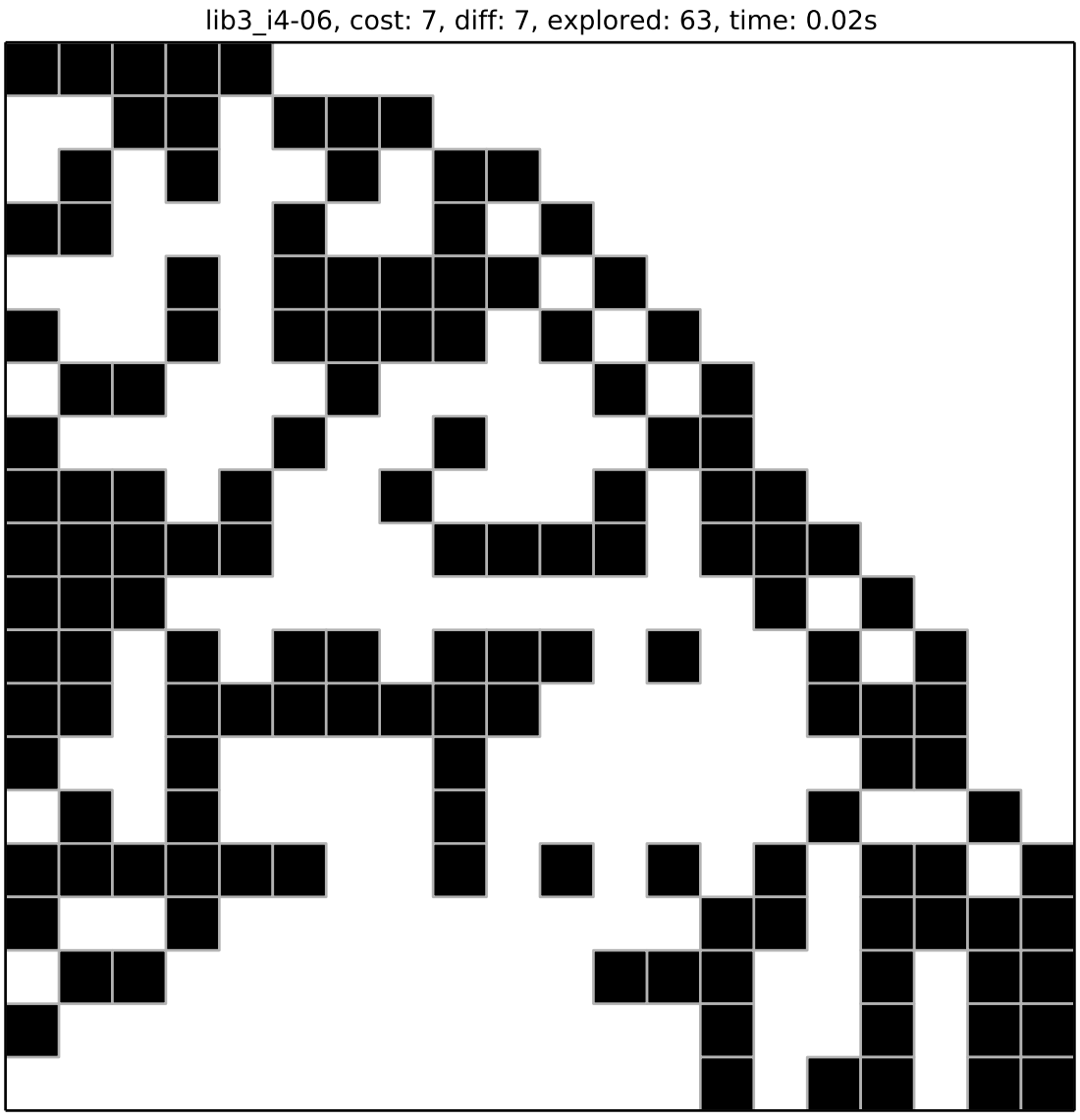
lib3_i4-04, cost: 7, diff: 7, explored: 69, time: 0.02s



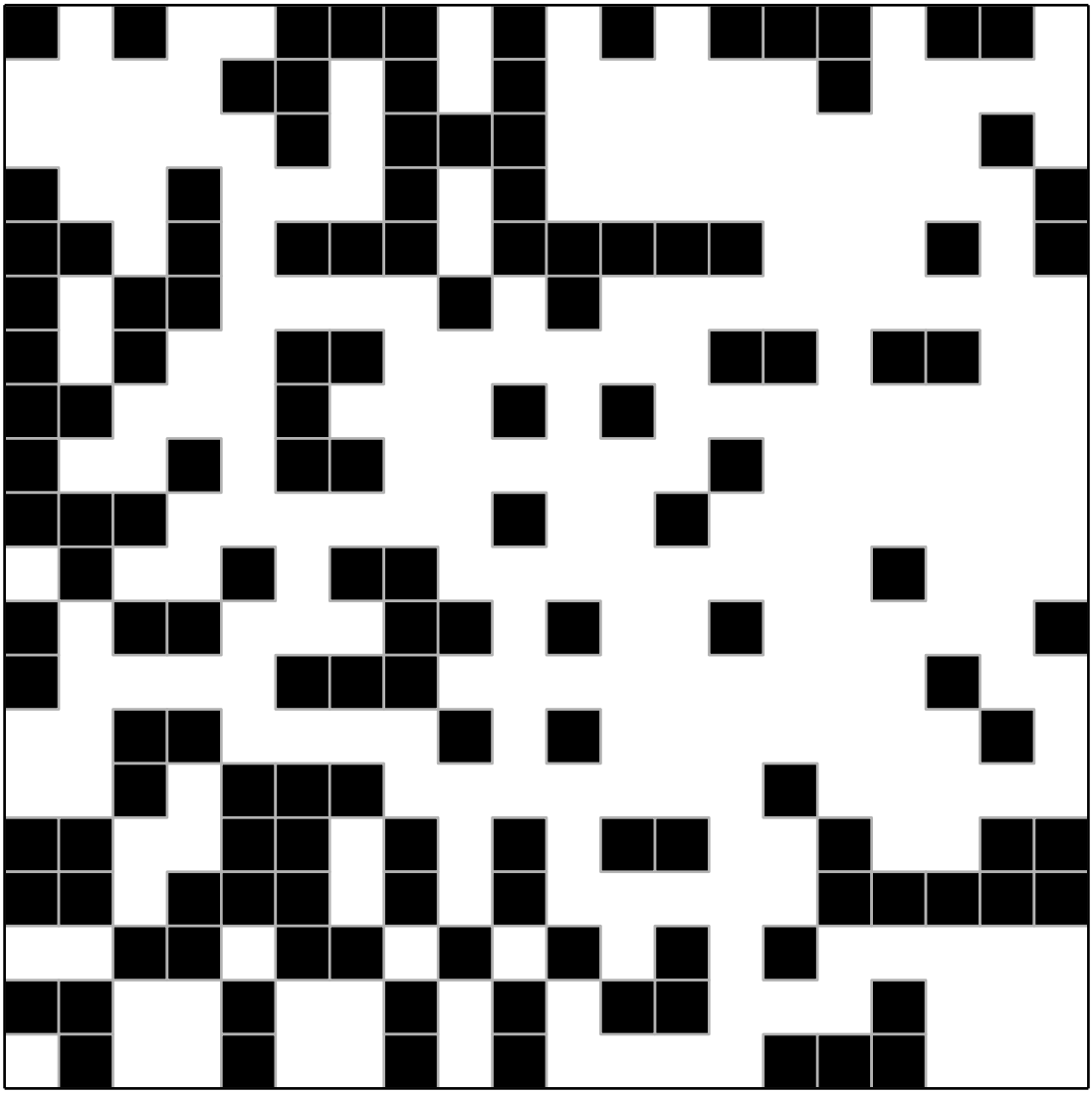

lib3_i4-05 20x20 (142) con: 10, var: 10

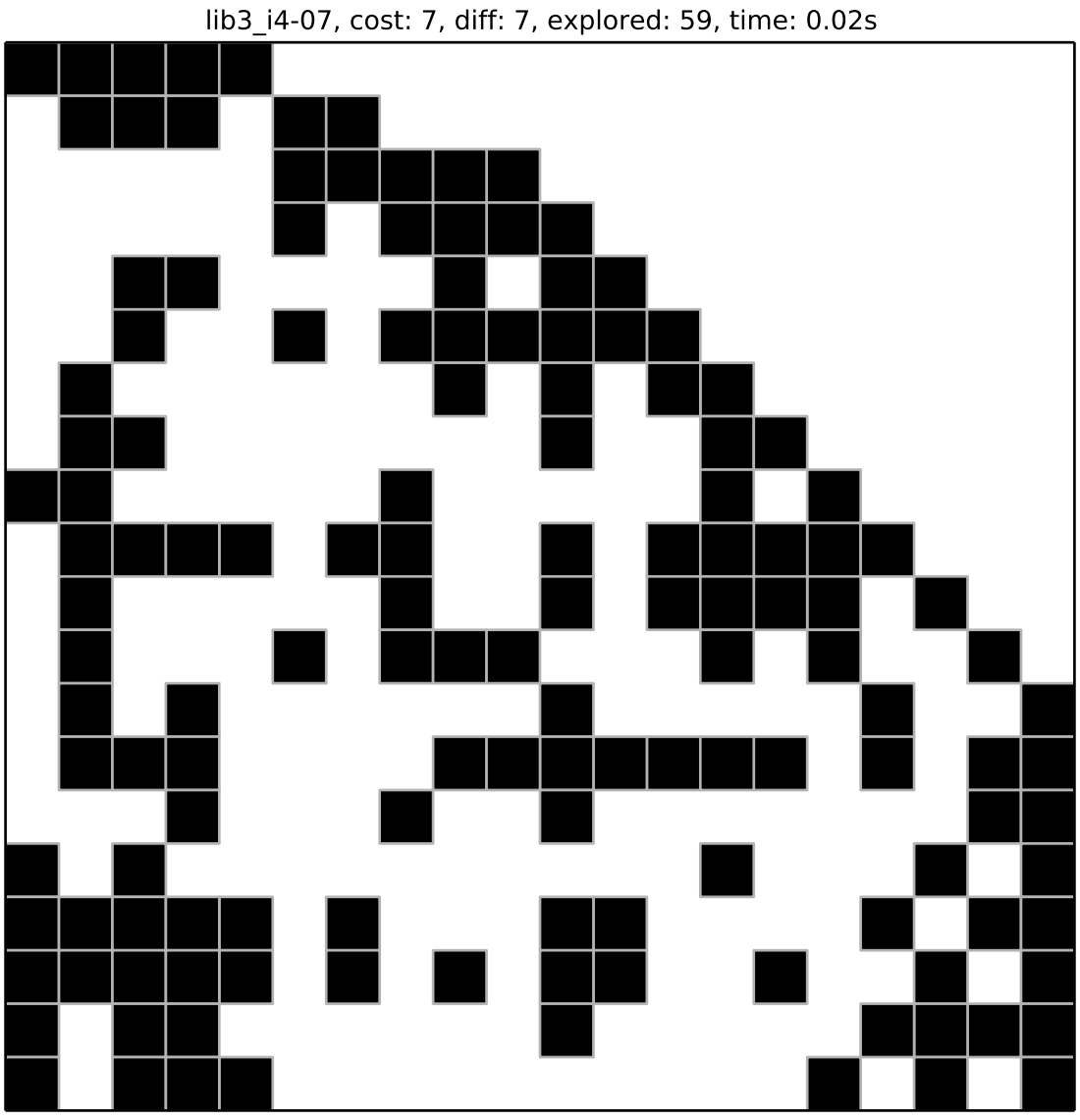

lib3_i4-05, cost: 7, diff: 7, explored: 56, time: 0.01s


lib3_i4-06 20x20 (142) con: 10, var: 10

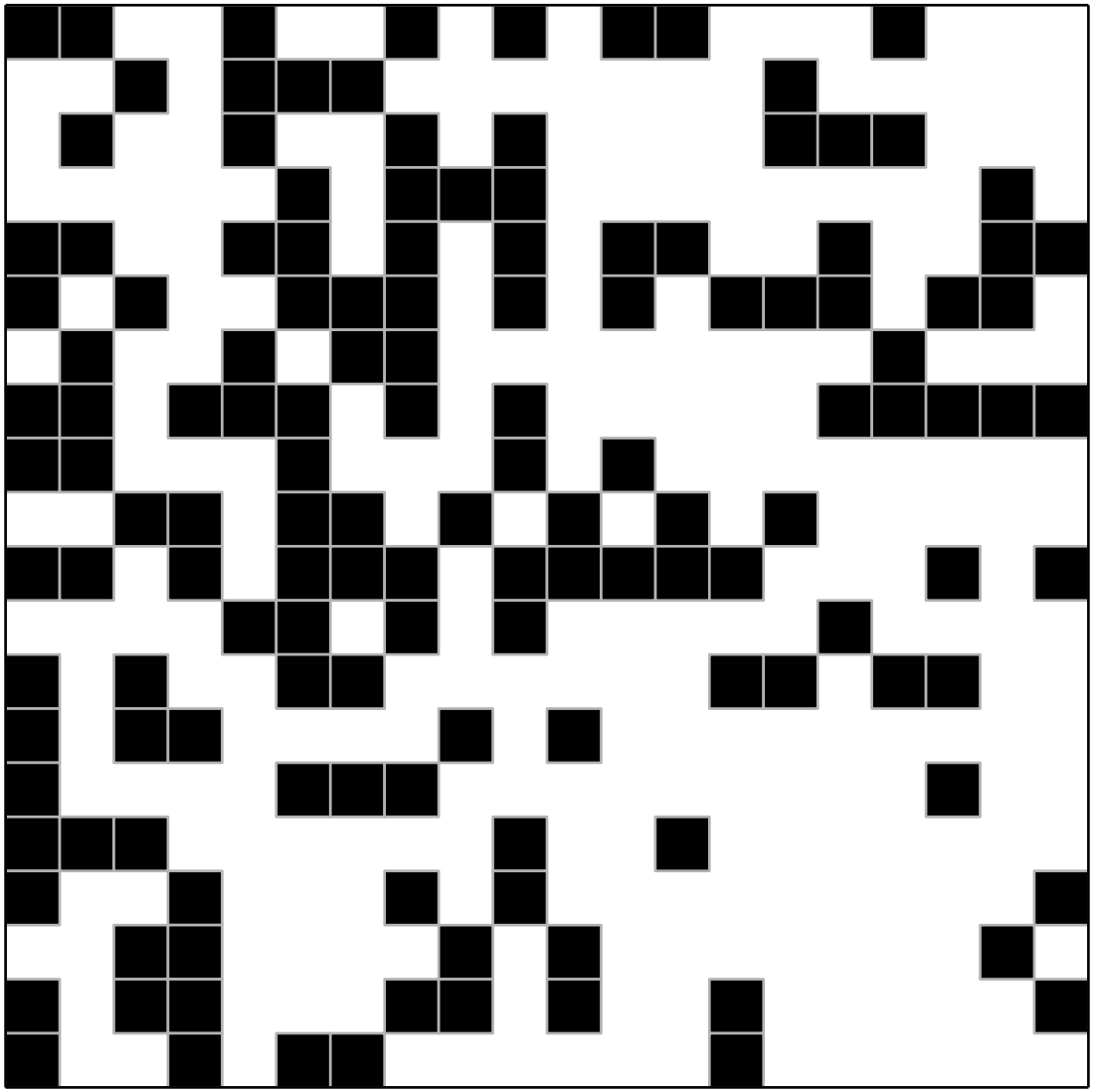

lib3_i4-06, cost: 7, diff: 7, explored: 63, time: 0.02s

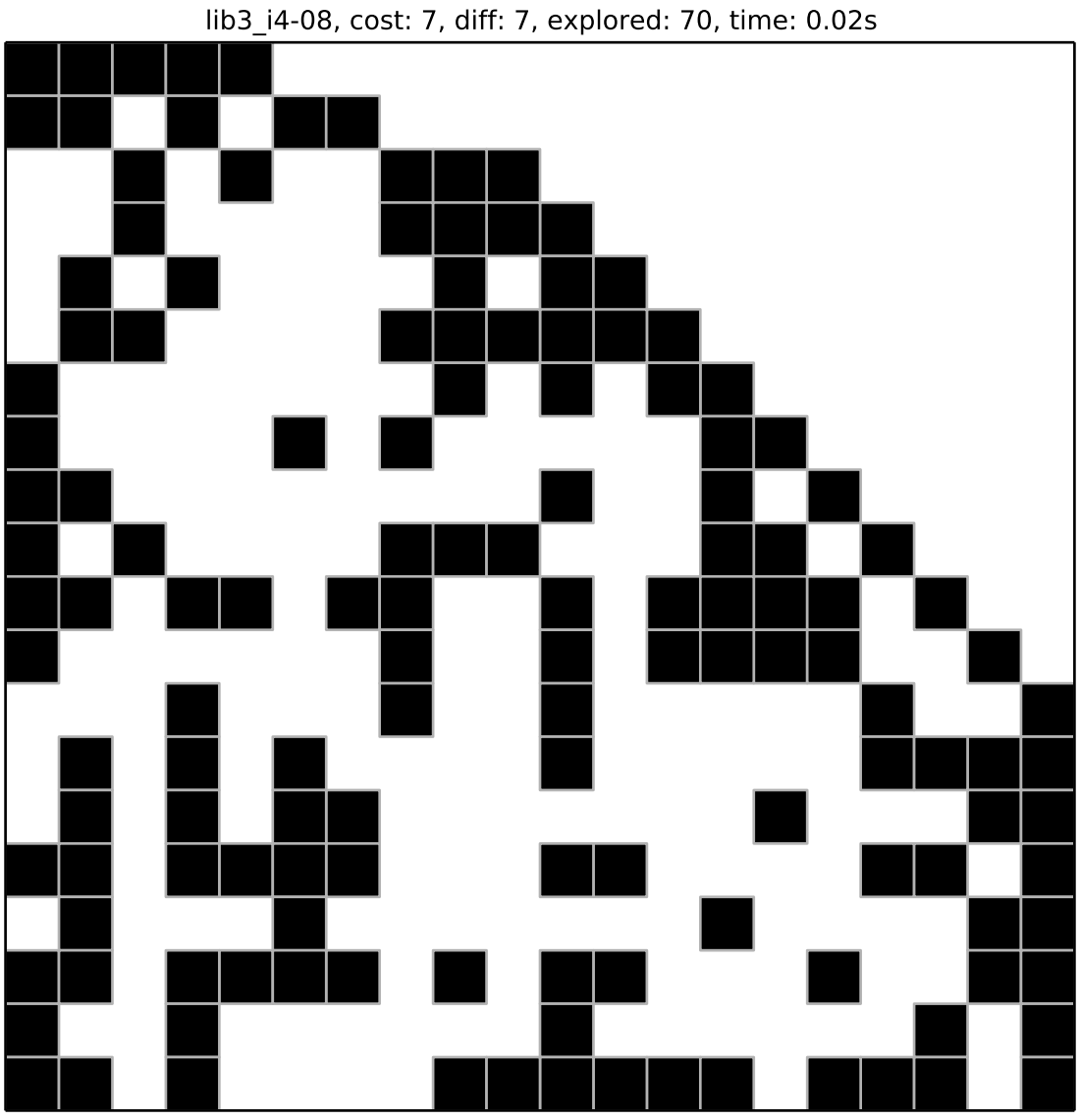
lib3_i4-07 20x20 (142) con: 10, var: 10




lib3_i4-07, cost: 7, diff: 7, explored: 59, time: 0.02s

lib3_i4-08 20x20 (142) con: 10, var: 10

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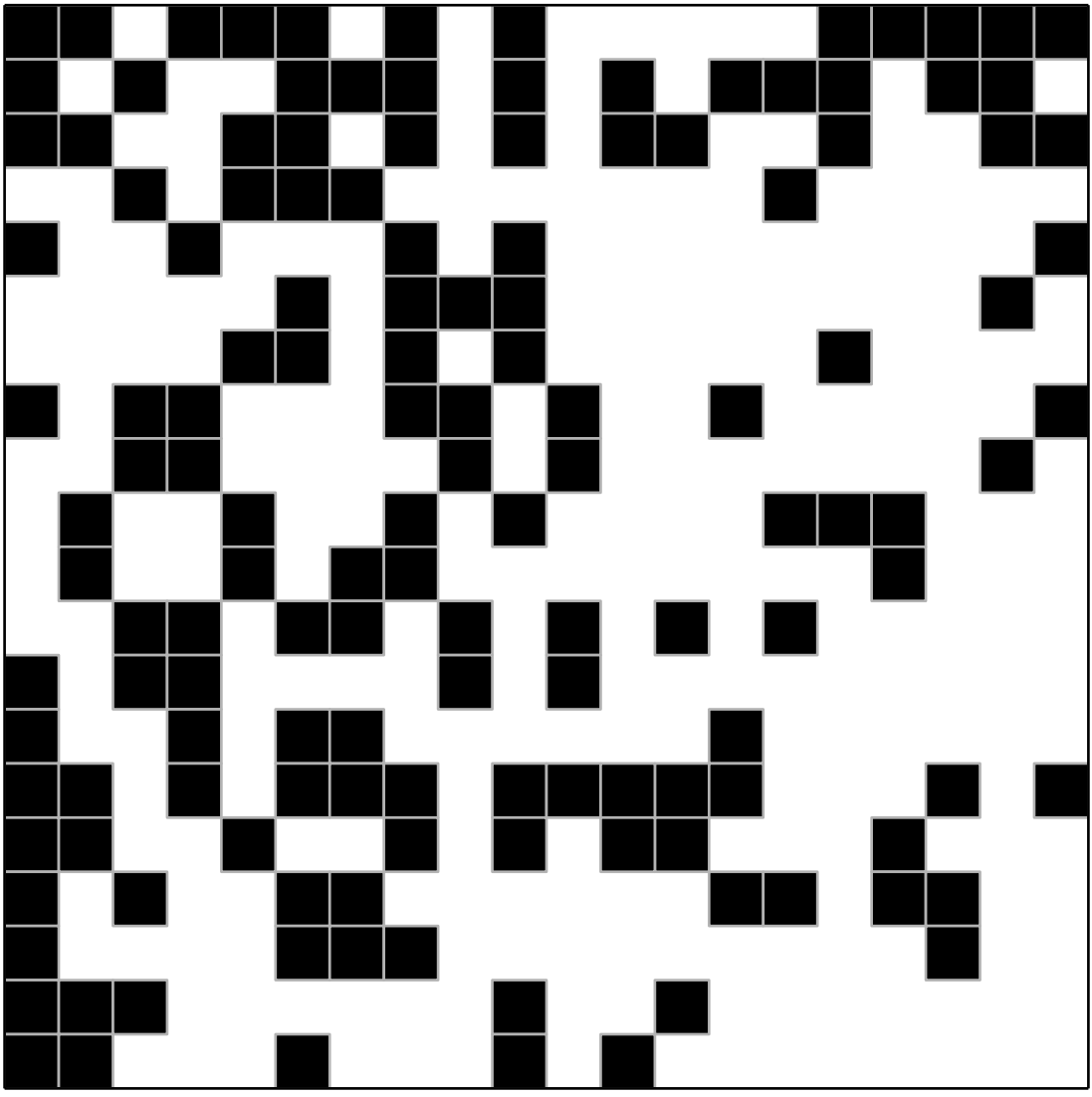
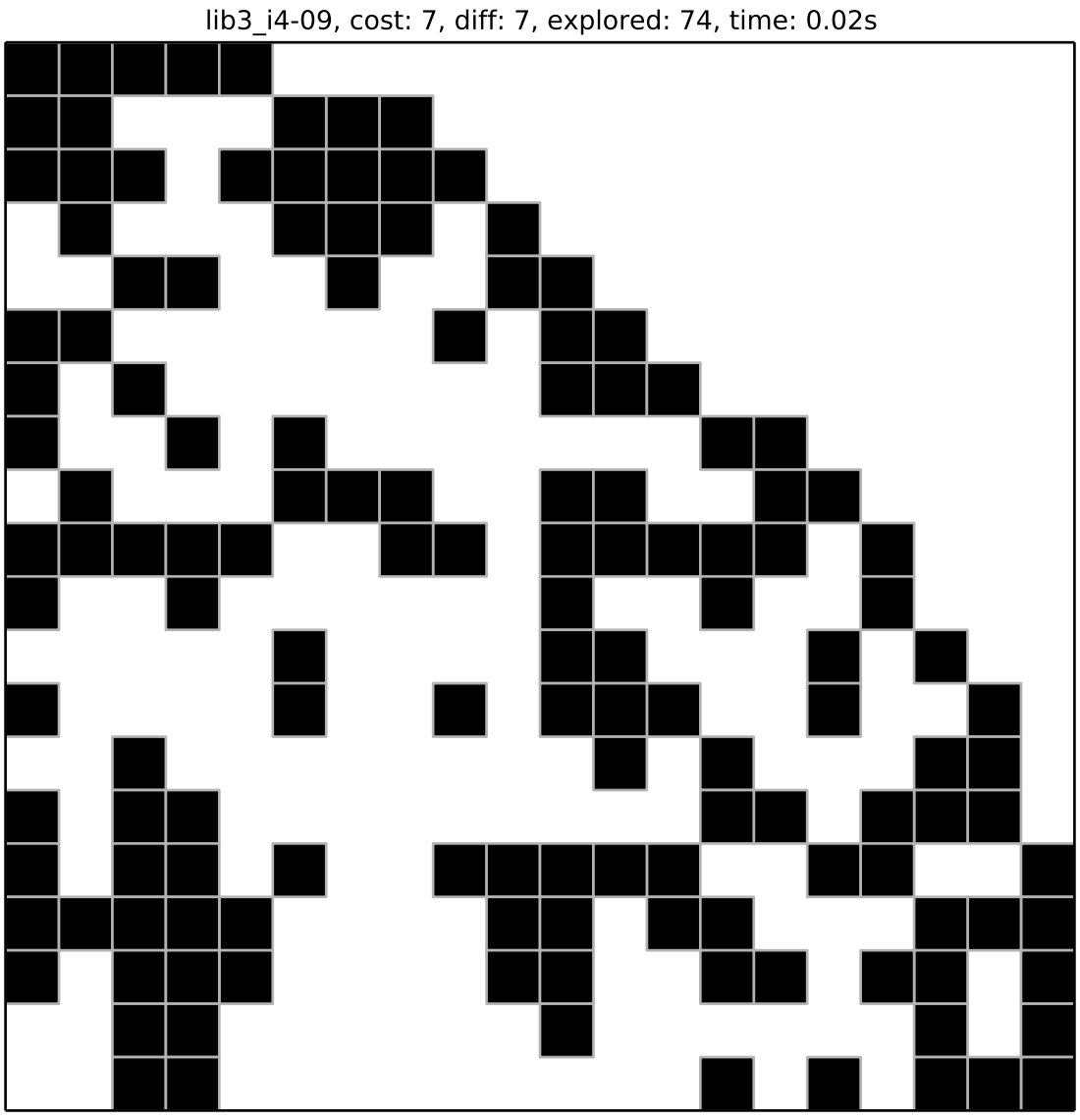
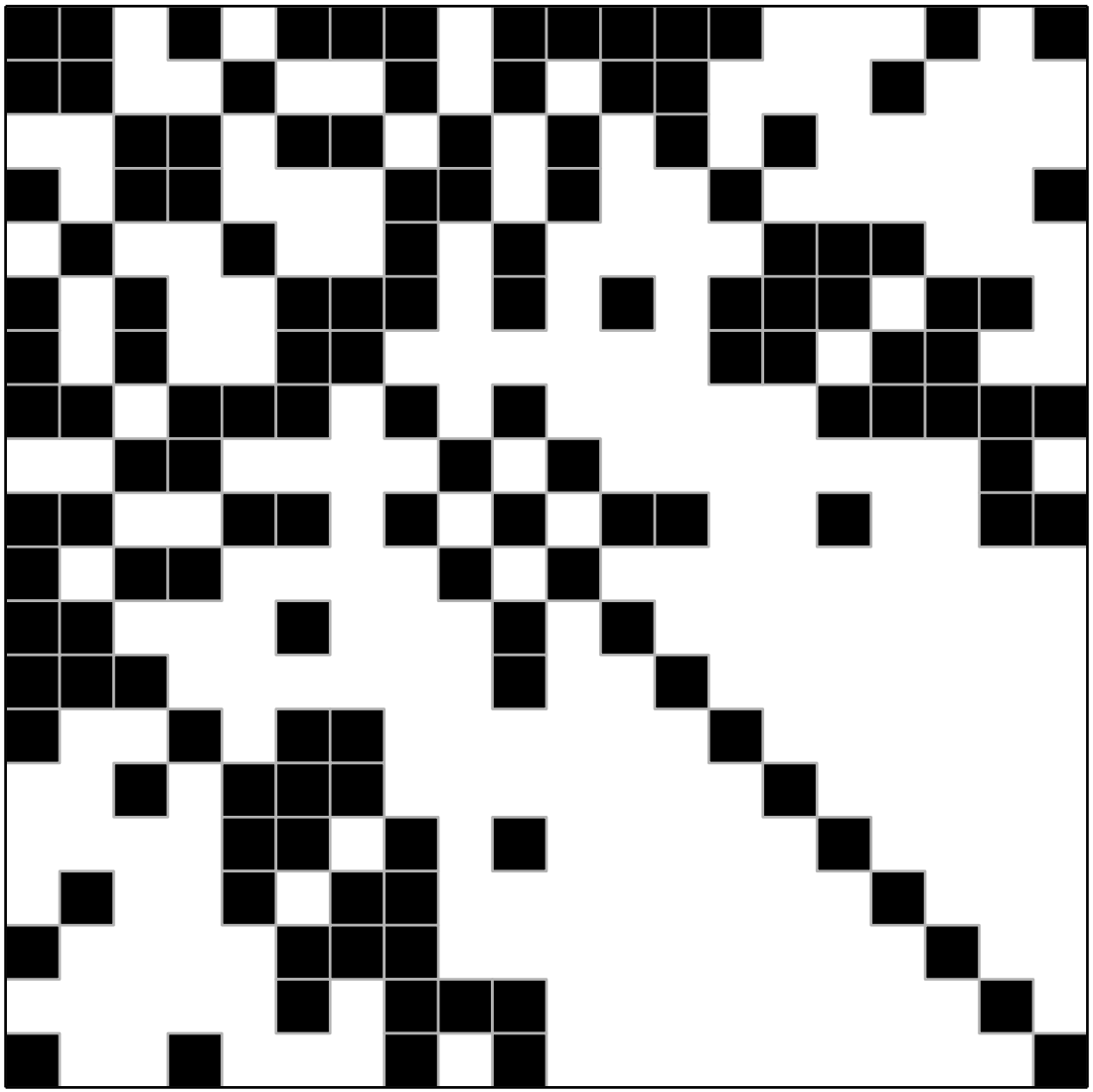
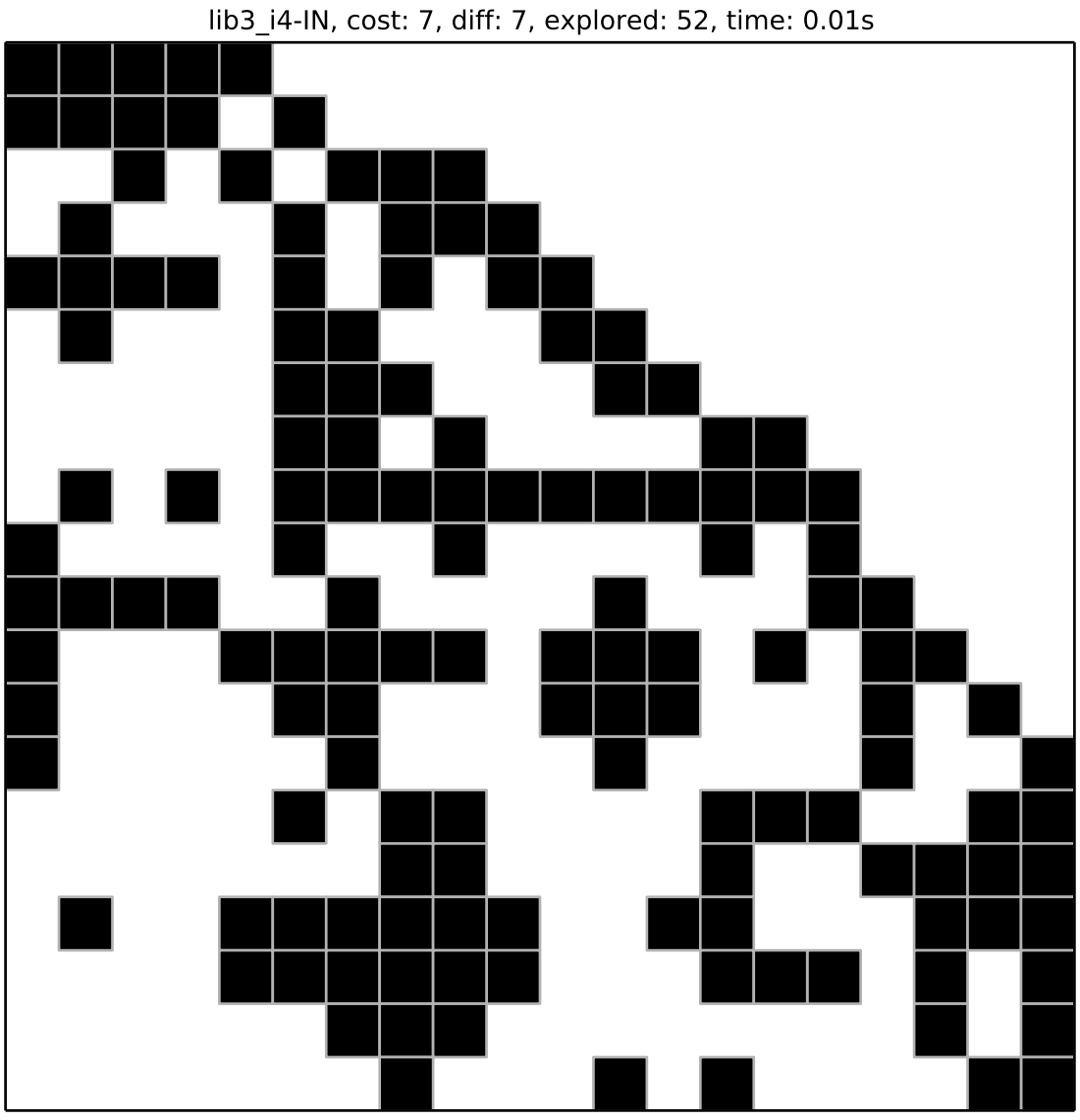
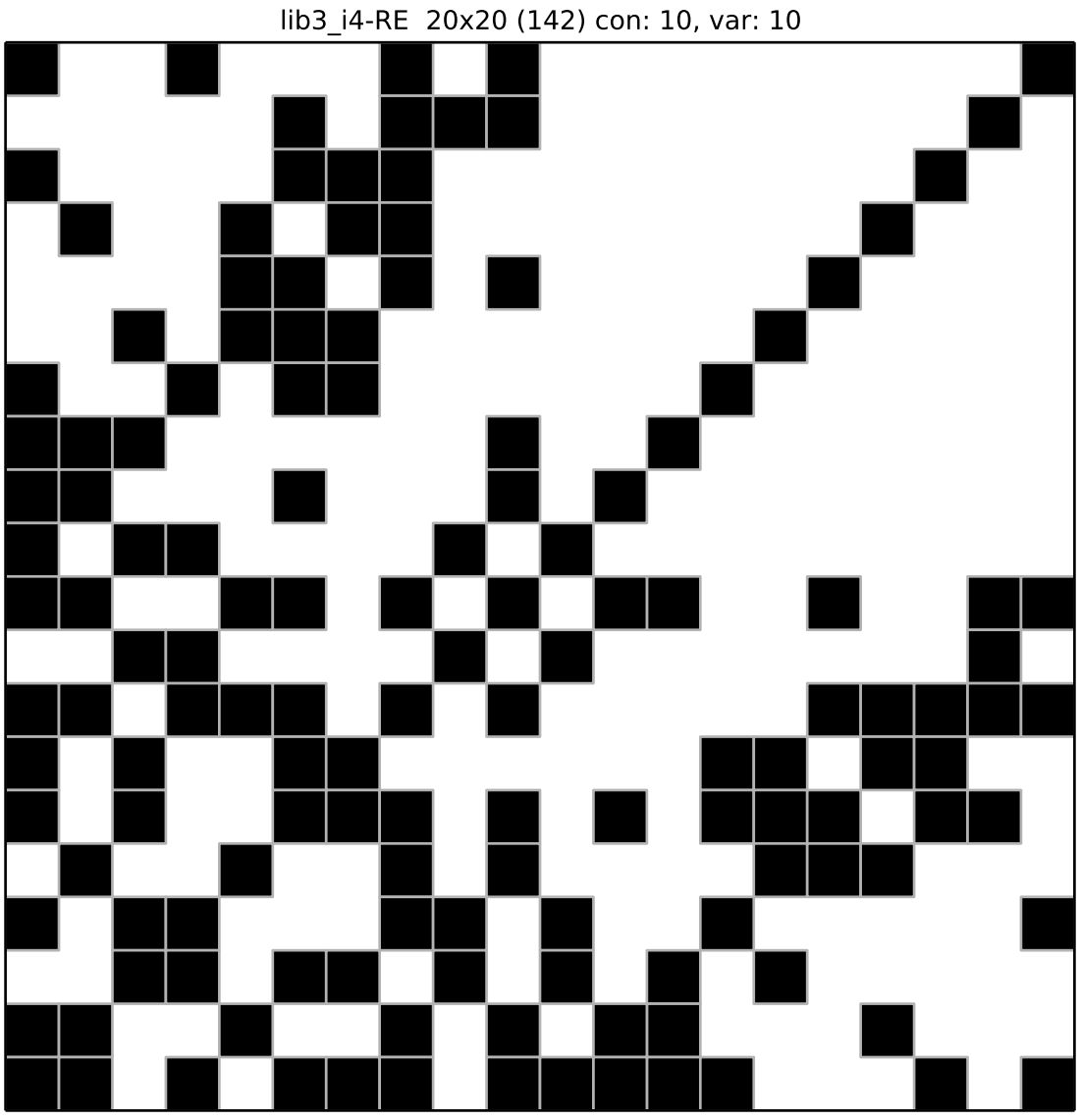
lib3_i4-09 20x20 (142) con: 10, var: 10

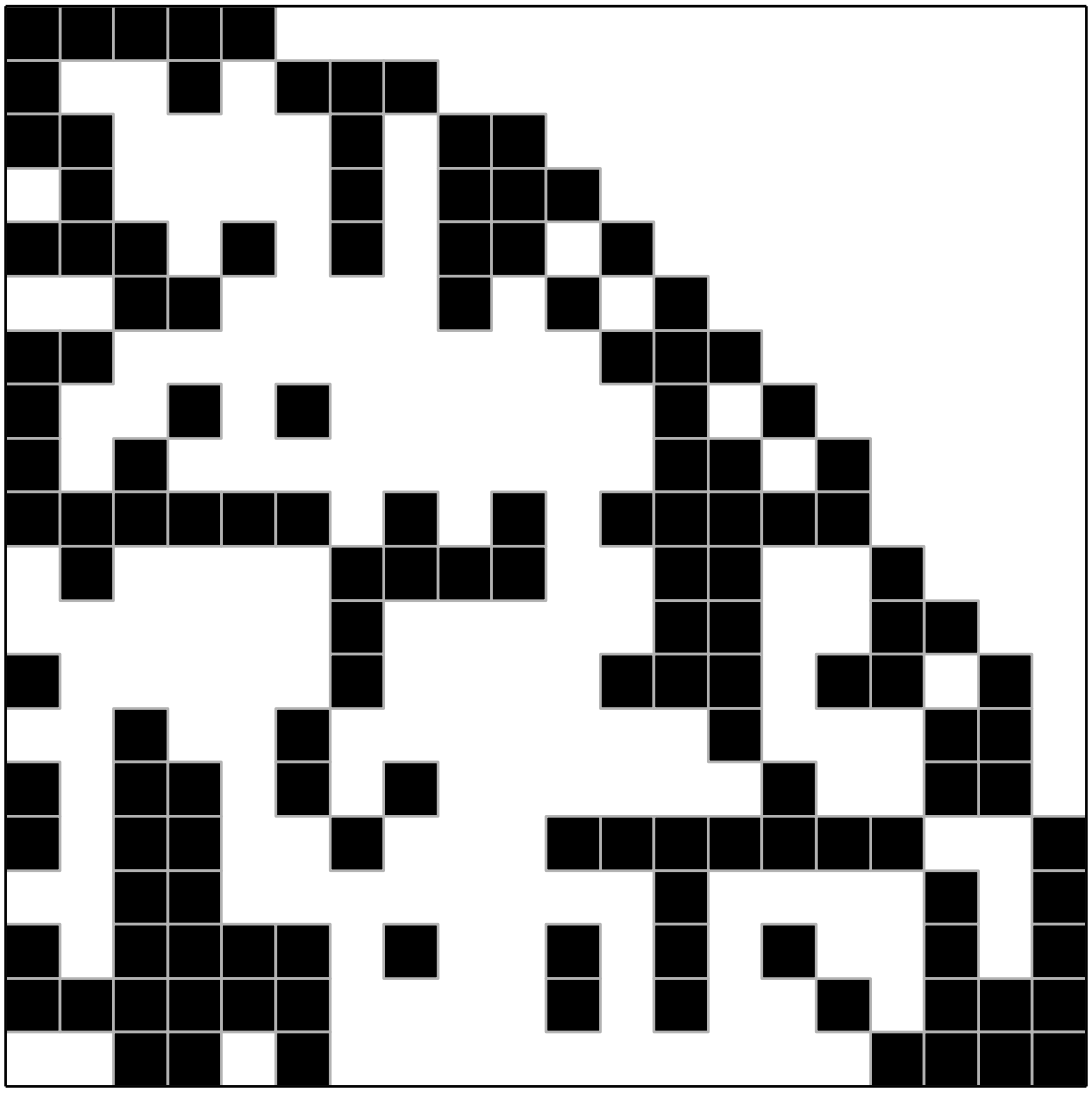



lib3_i4-09, cost: 7, diff: 7, explored: 74, time: 0.02s

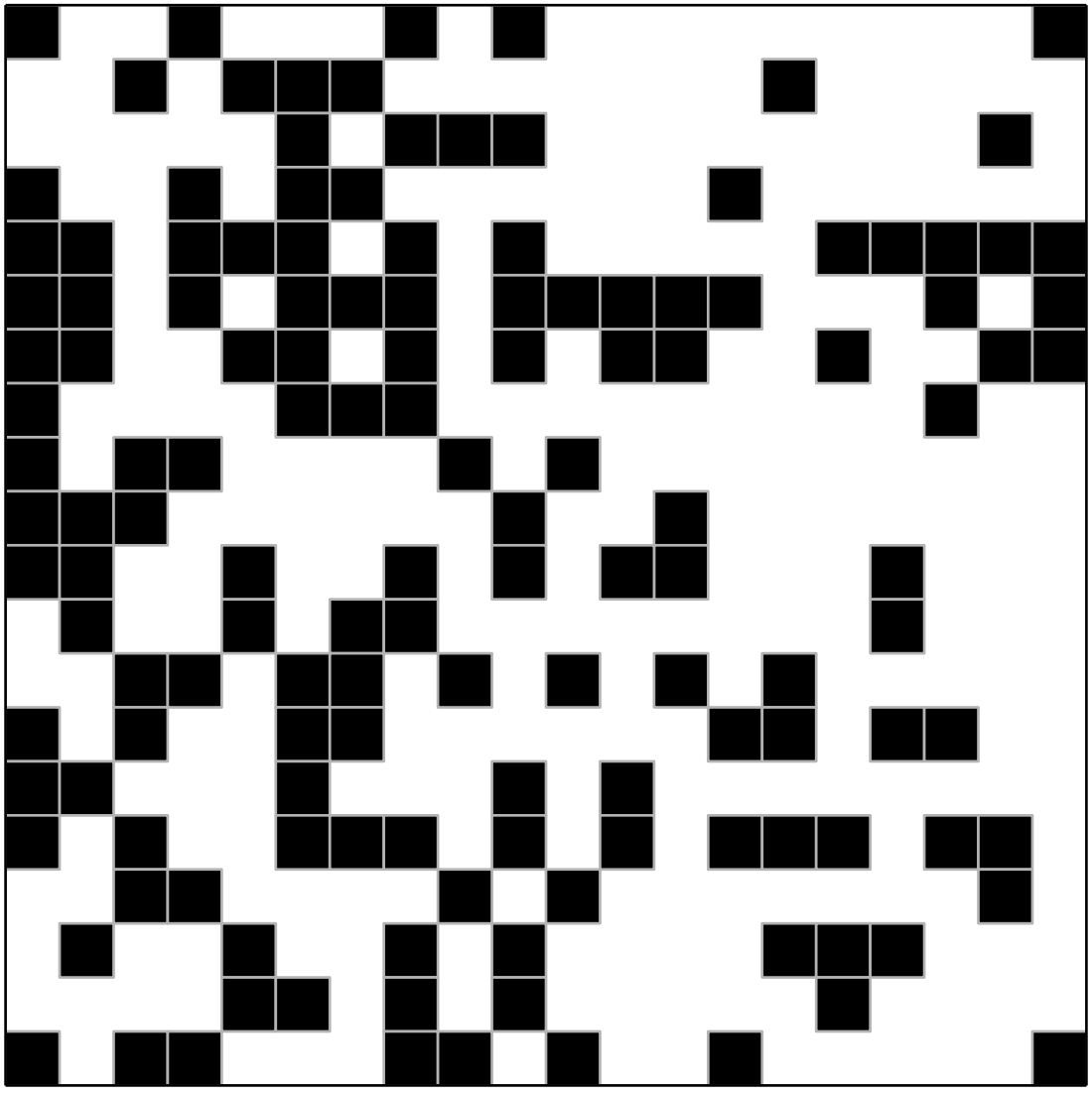

lib3_i4-IN 20x20 (142) con: 10, var: 10


lib3_i4-IN, cost: 7, diff: 7, explored: 52, time: 0.01s

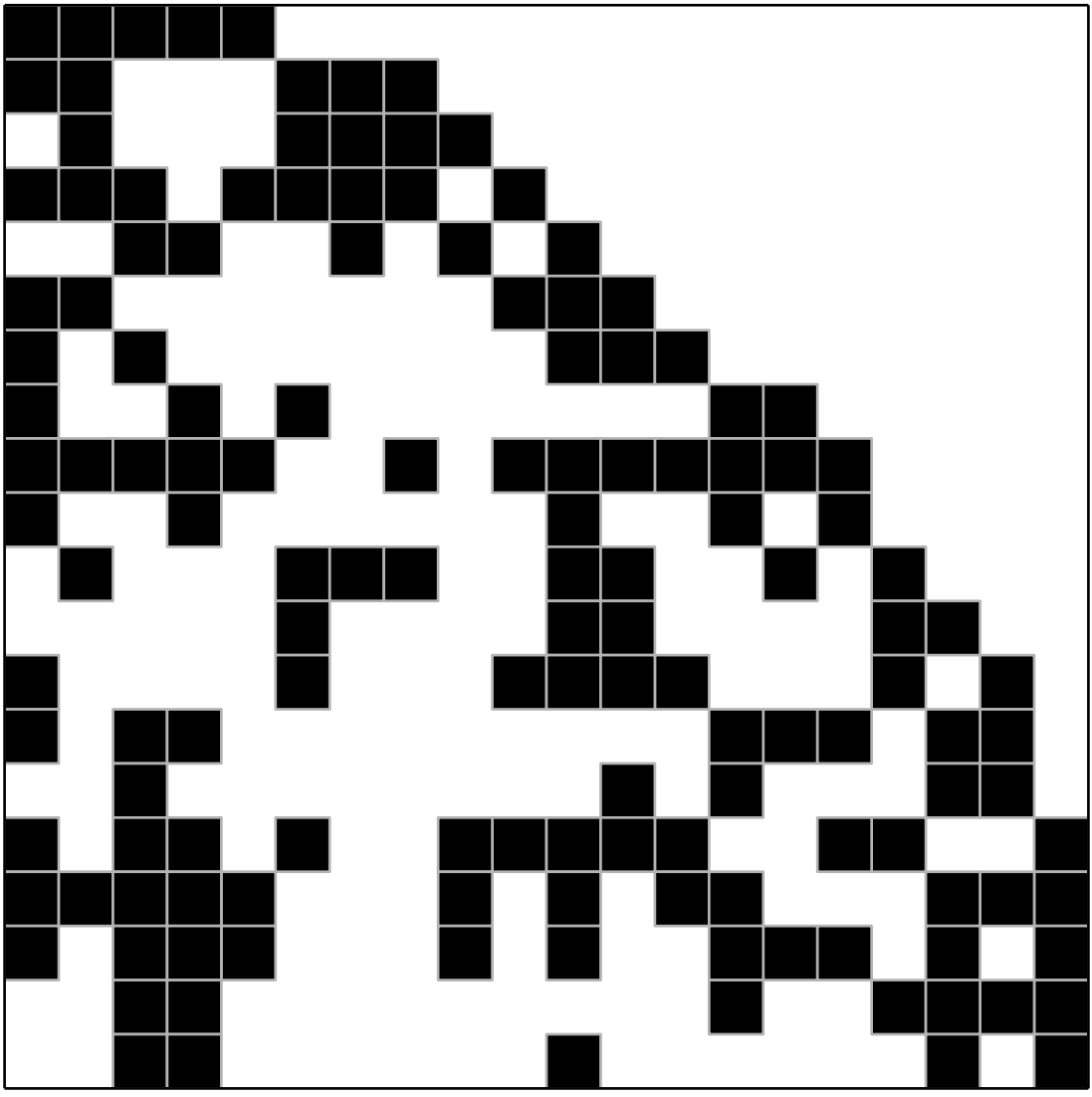

lib3_i4-RE 20x20 (142) con: 10, var: 10

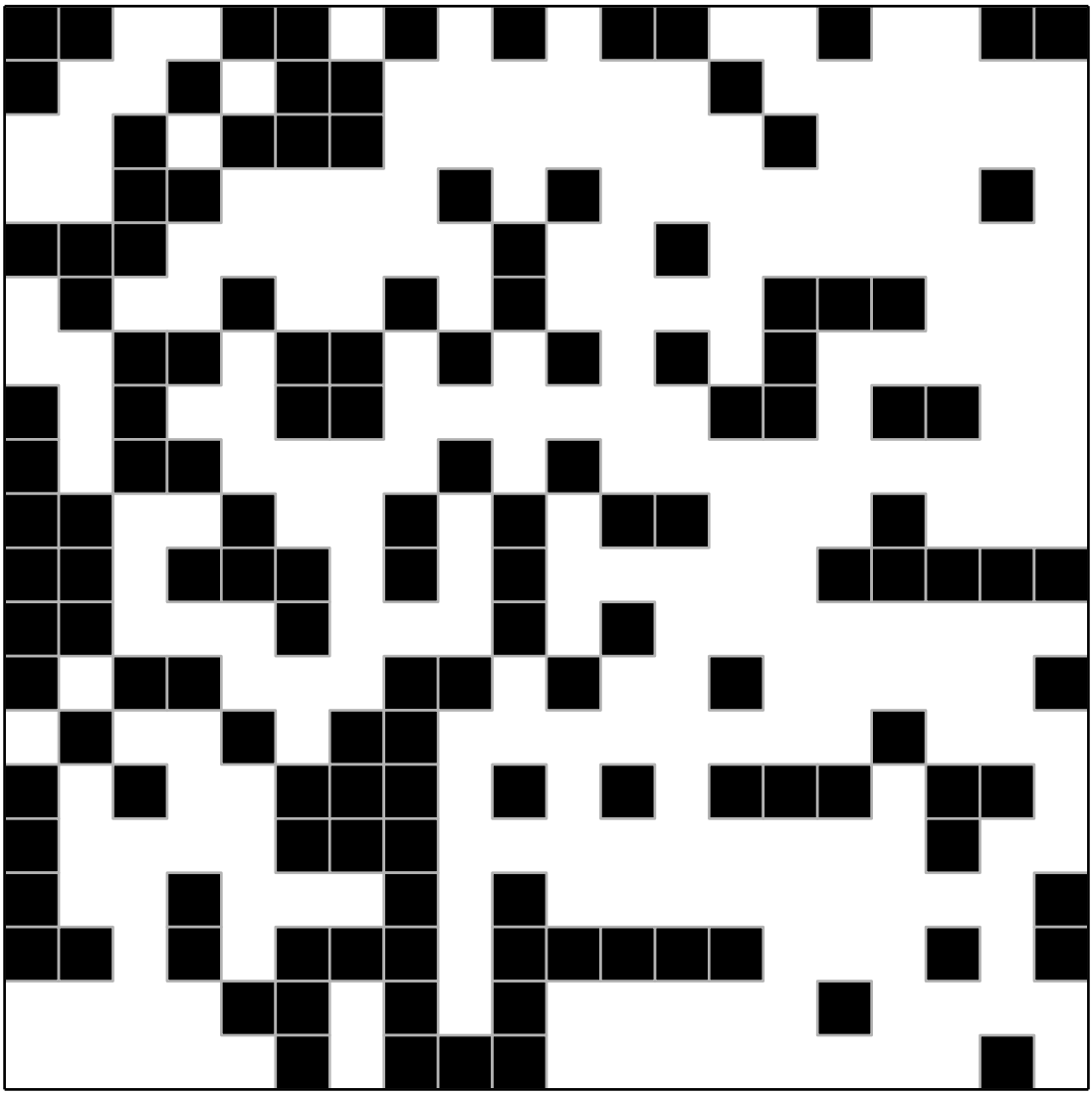

lib3_i4-RE, cost: 7, diff: 7, explored: 71, time: 0.02s

lib3_i5-00 20x20 (142) con: 10, var: 10

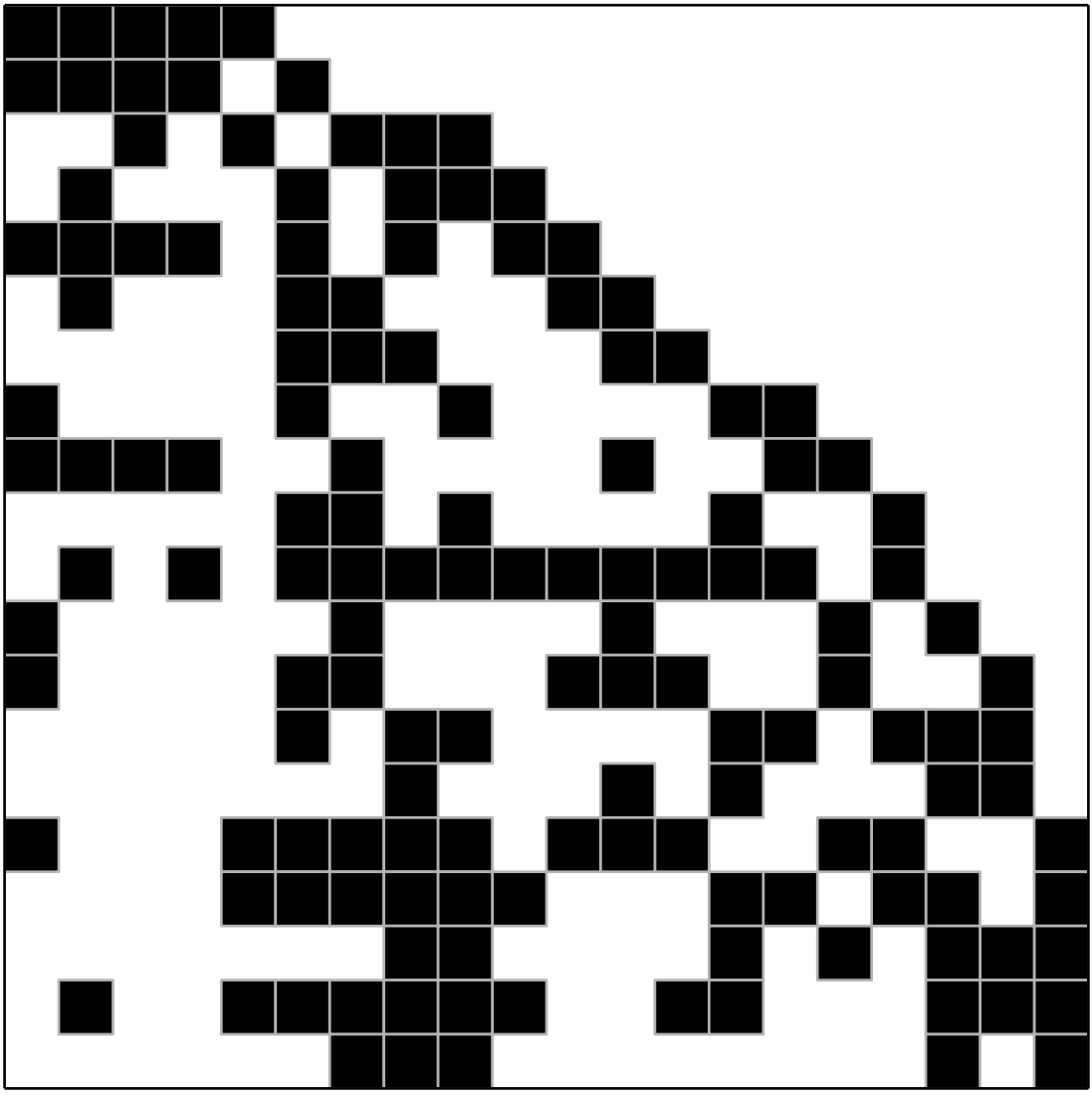


lib3_i5-00, cost: 7, diff: 7, explored: 68, time: 0.02s

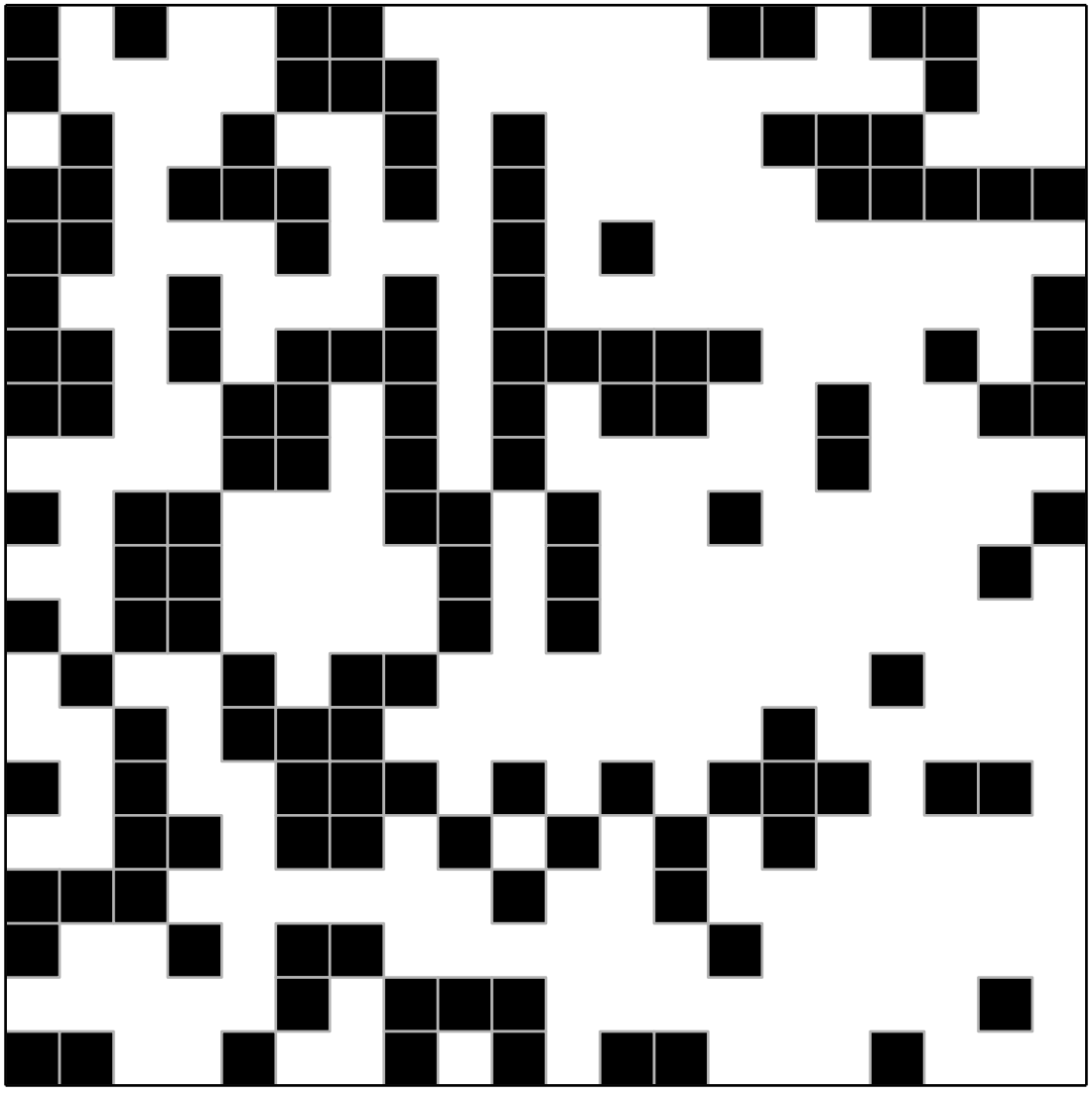



lib3_i5-01 20x20 (142) con: 10, var: 10

lib3_i5-01, cost: 7, diff: 7, explored: 75, time: 0.02s



lib3_i5-02 20x20 (142) con: 10, var: 10



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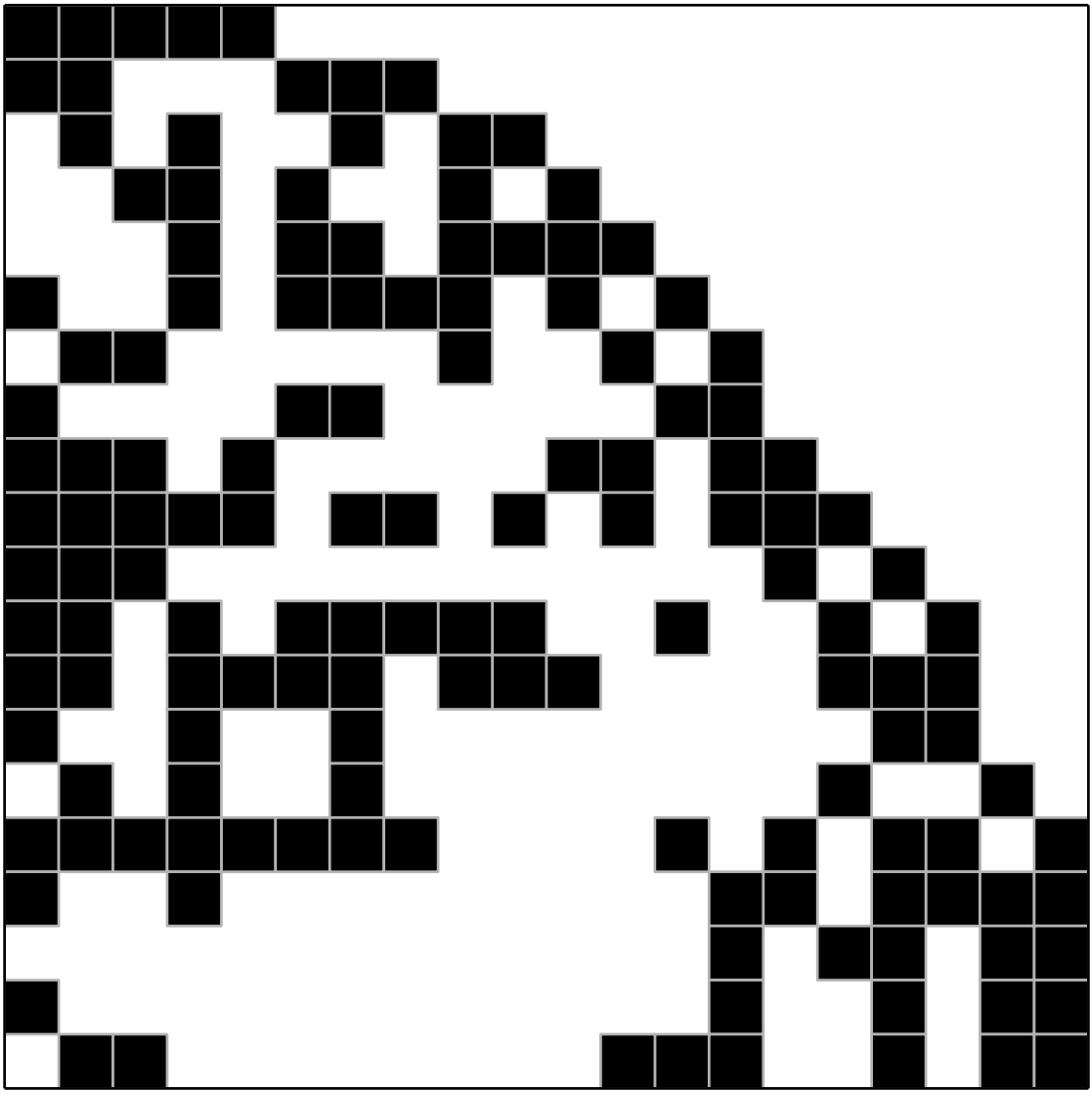
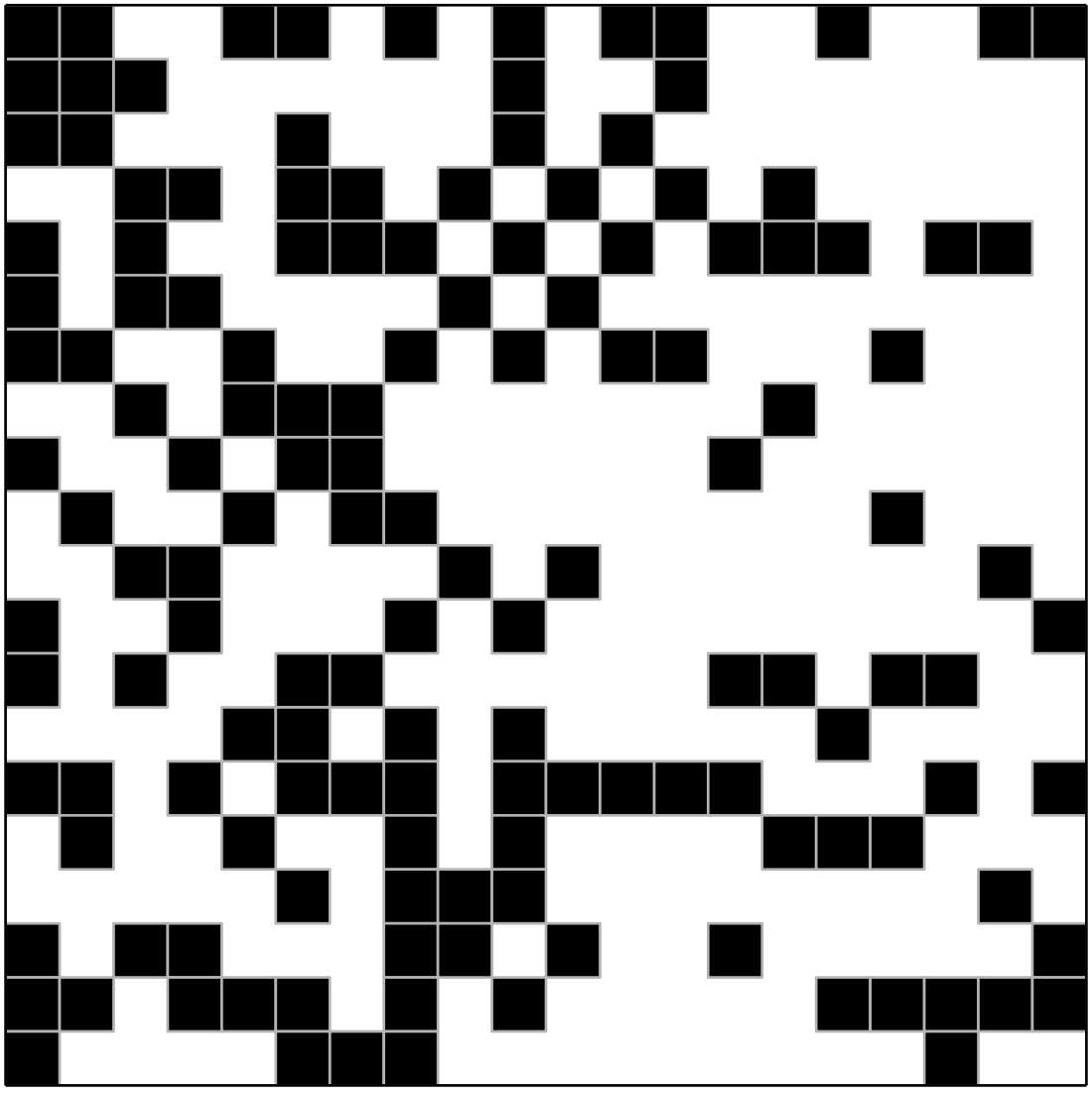
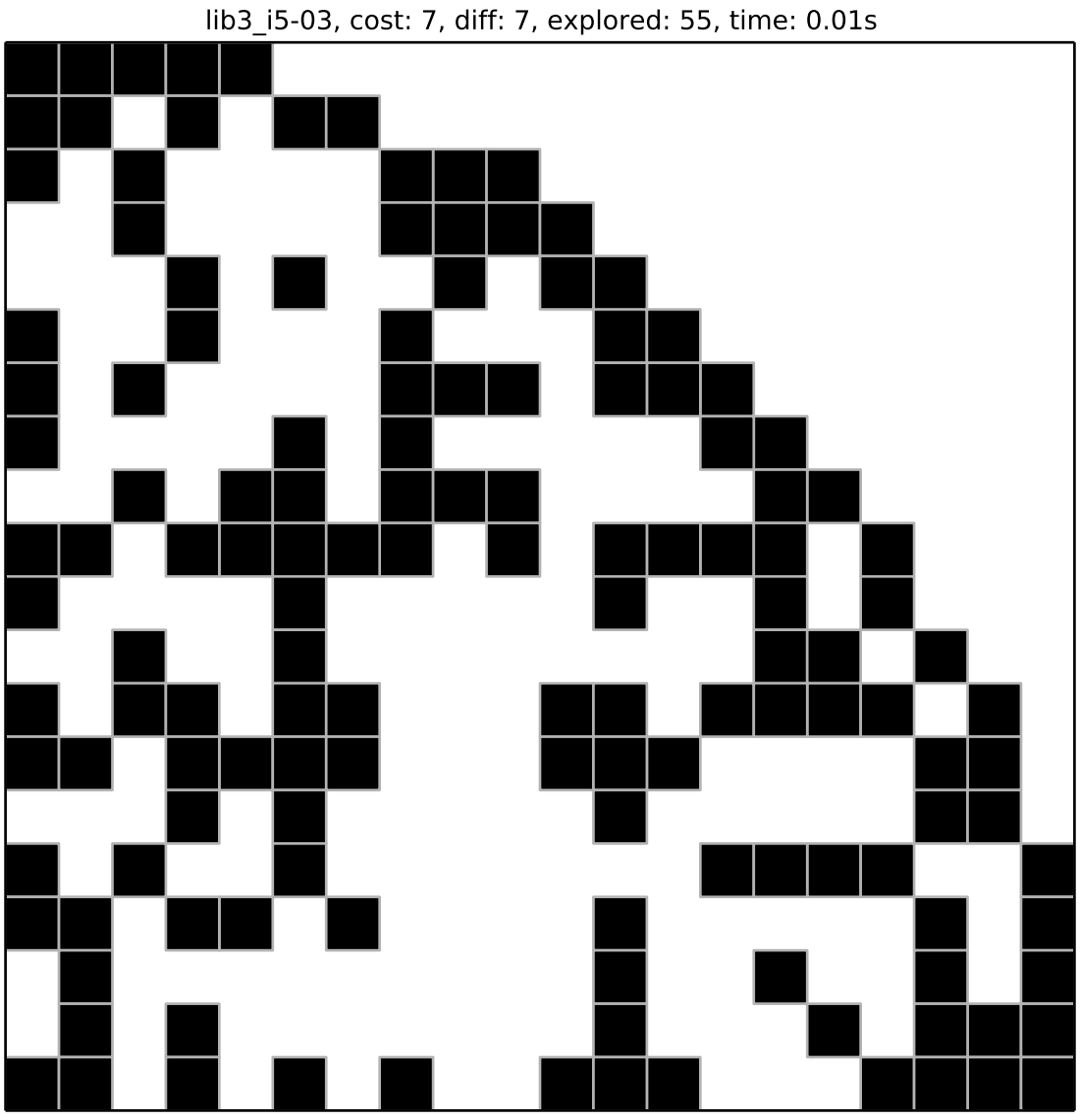


lib3_i5-03 20x20 (142) con: 10, var: 10

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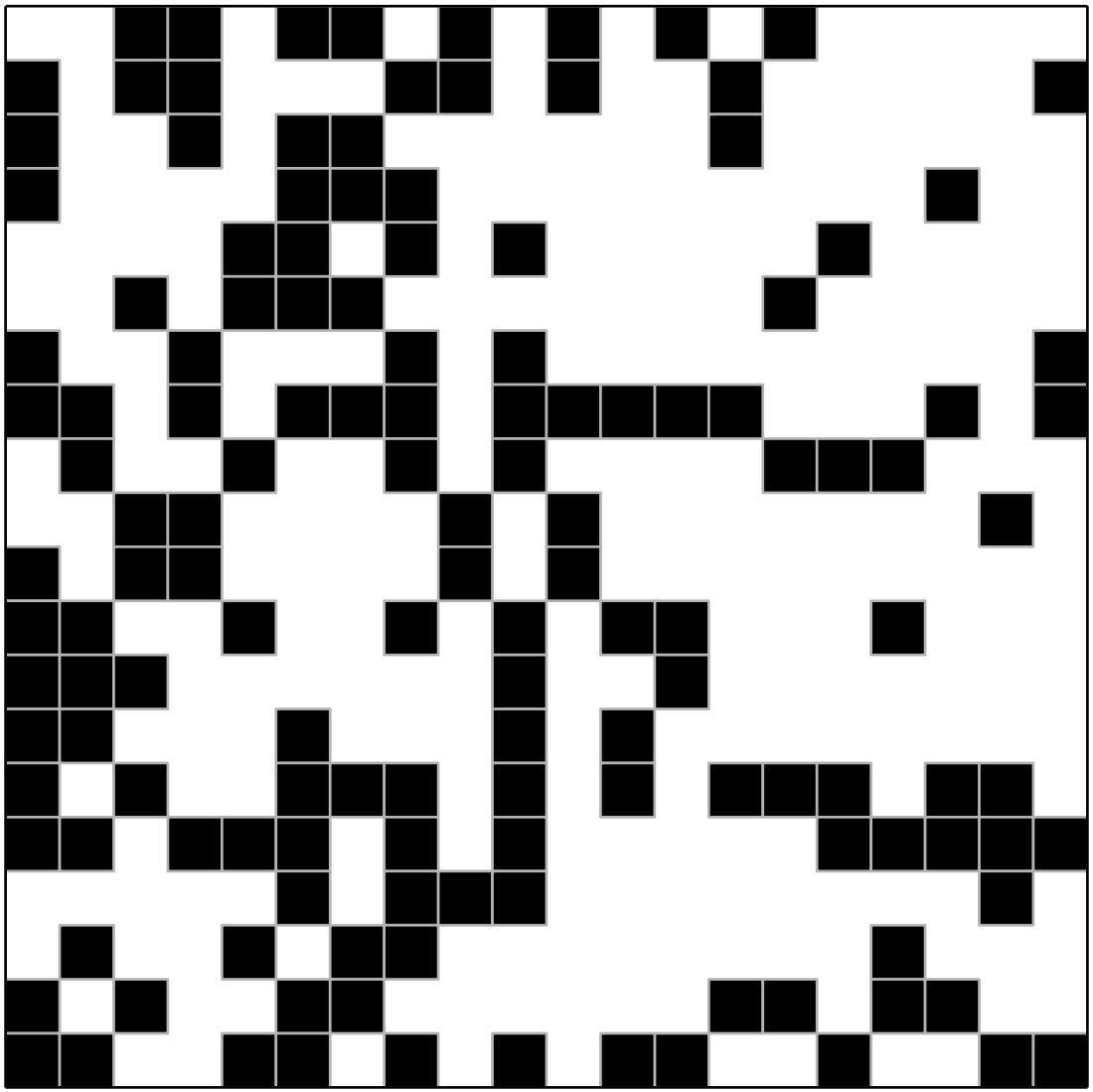
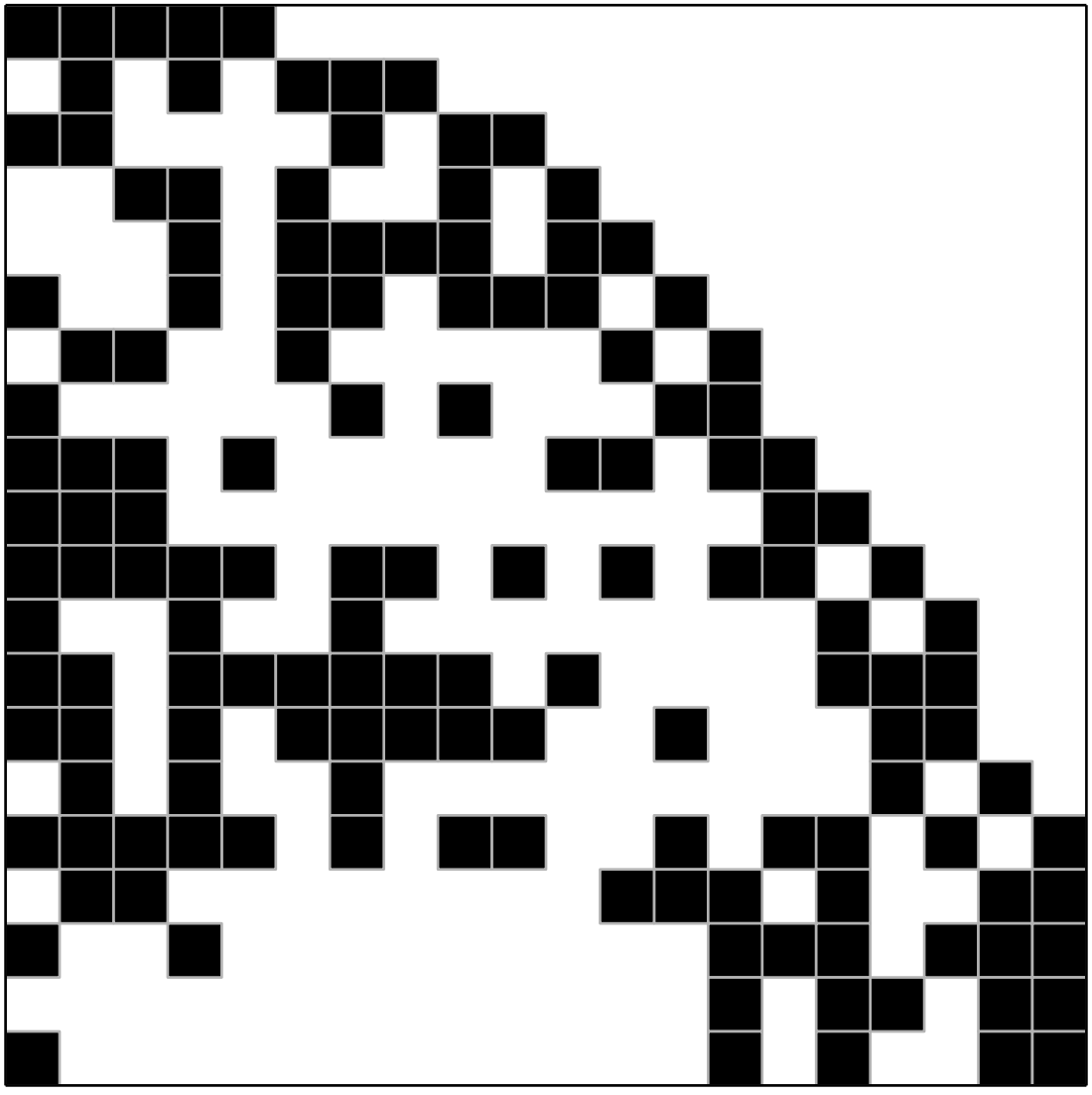
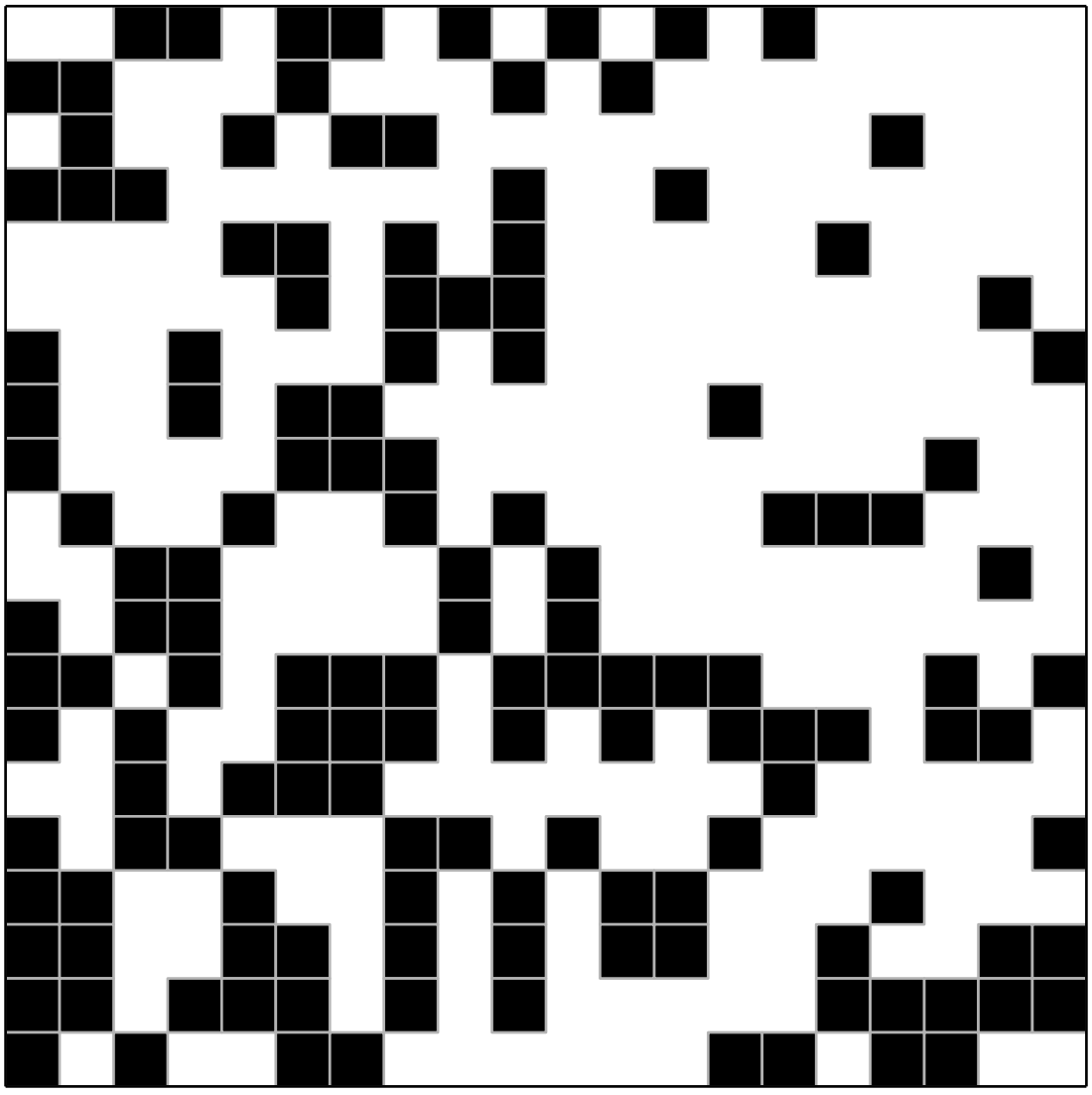

lib3_i5-04 20x20 (142) con: 10, var: 10

lib3_i5-04, cost: 7, diff: 7, explored: 69, time: 0.02s

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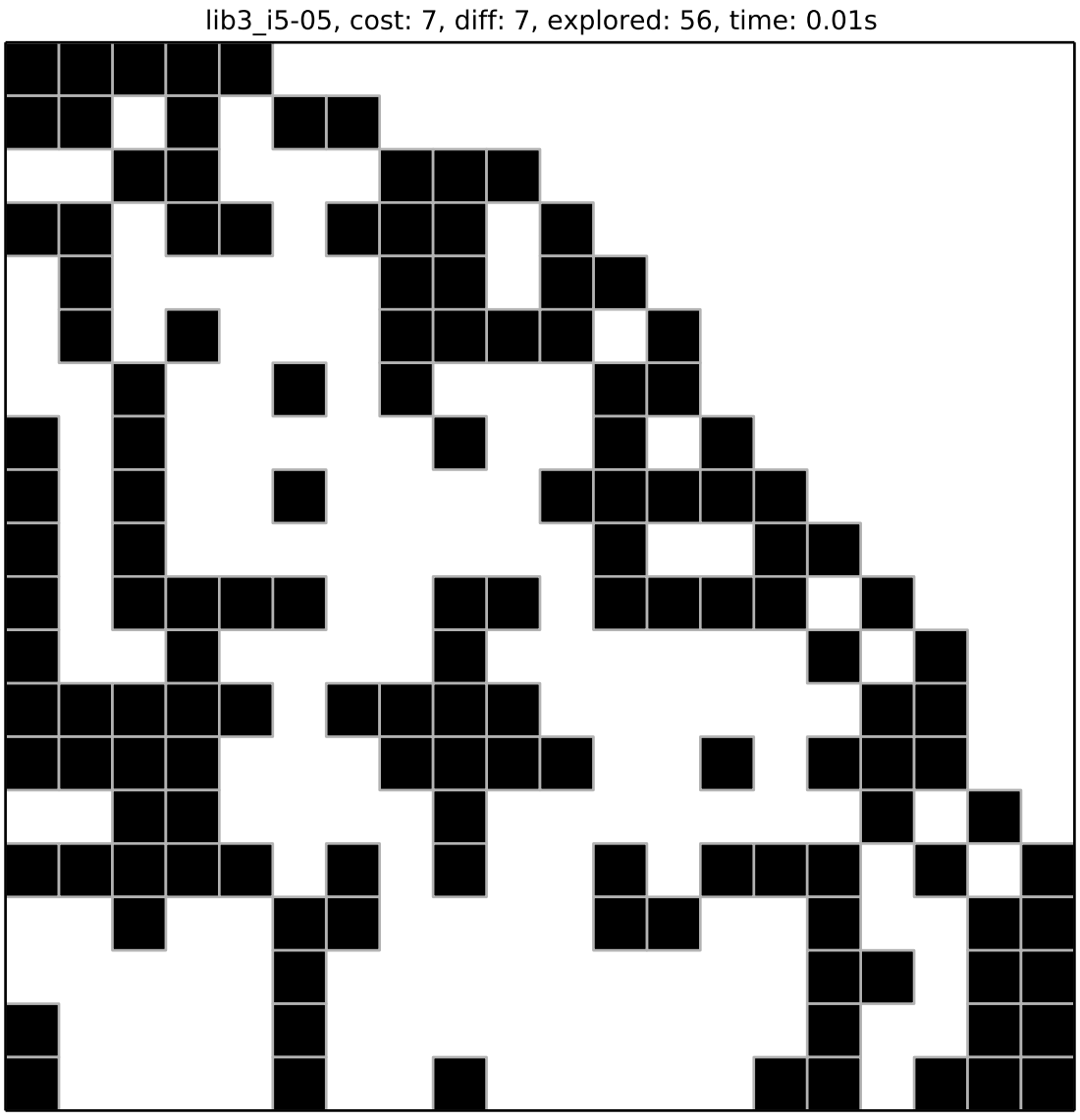
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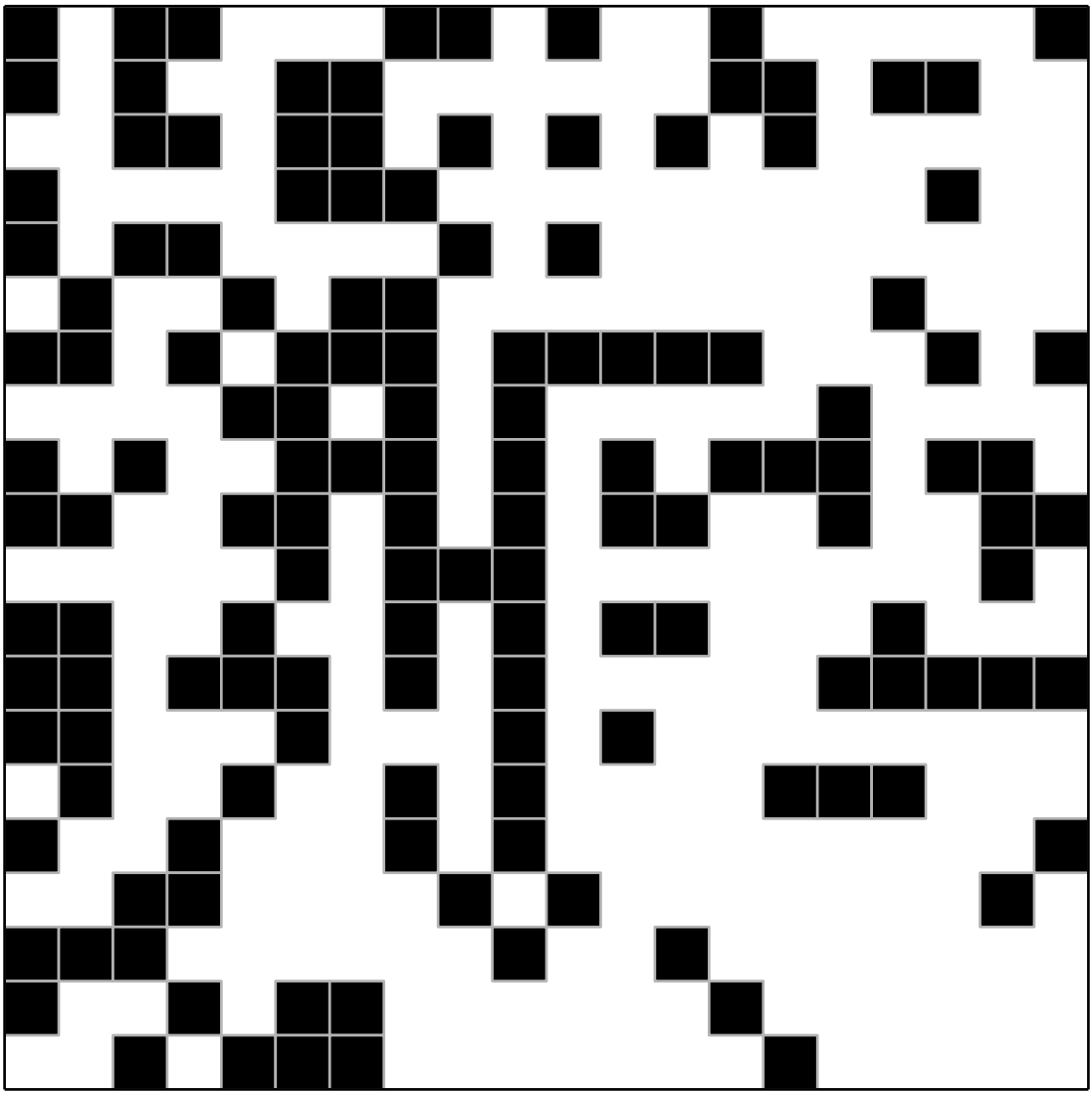
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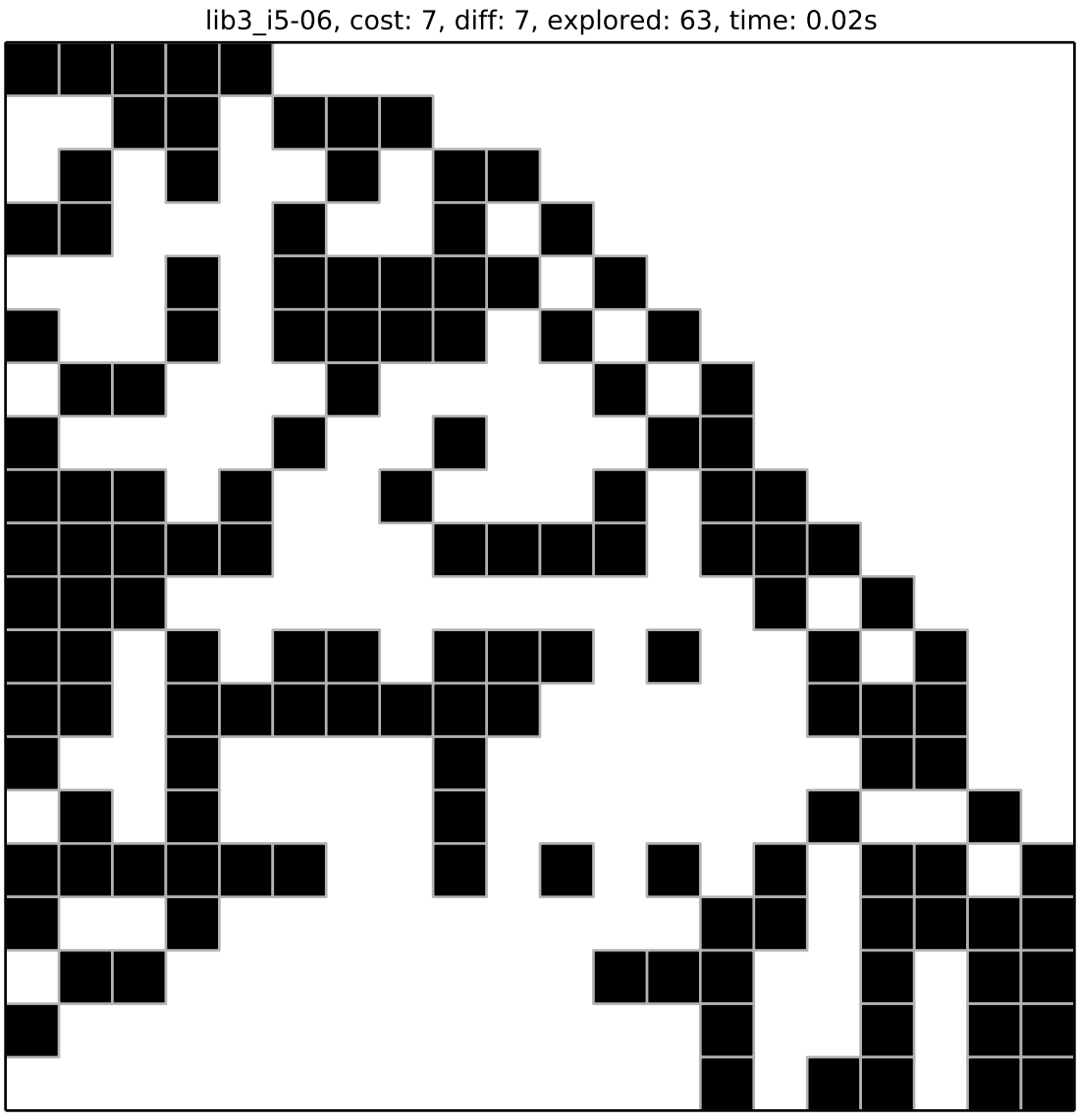
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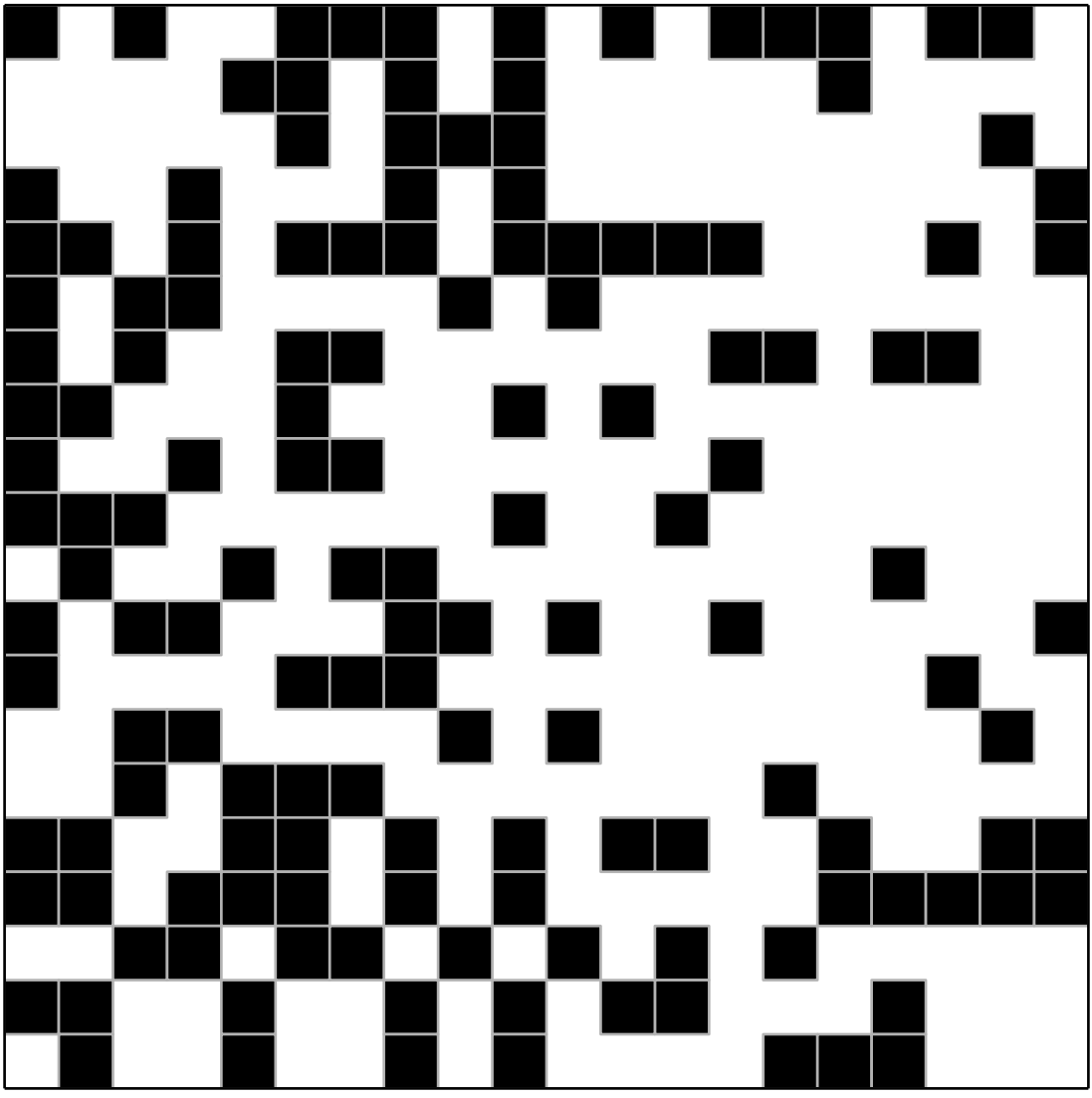
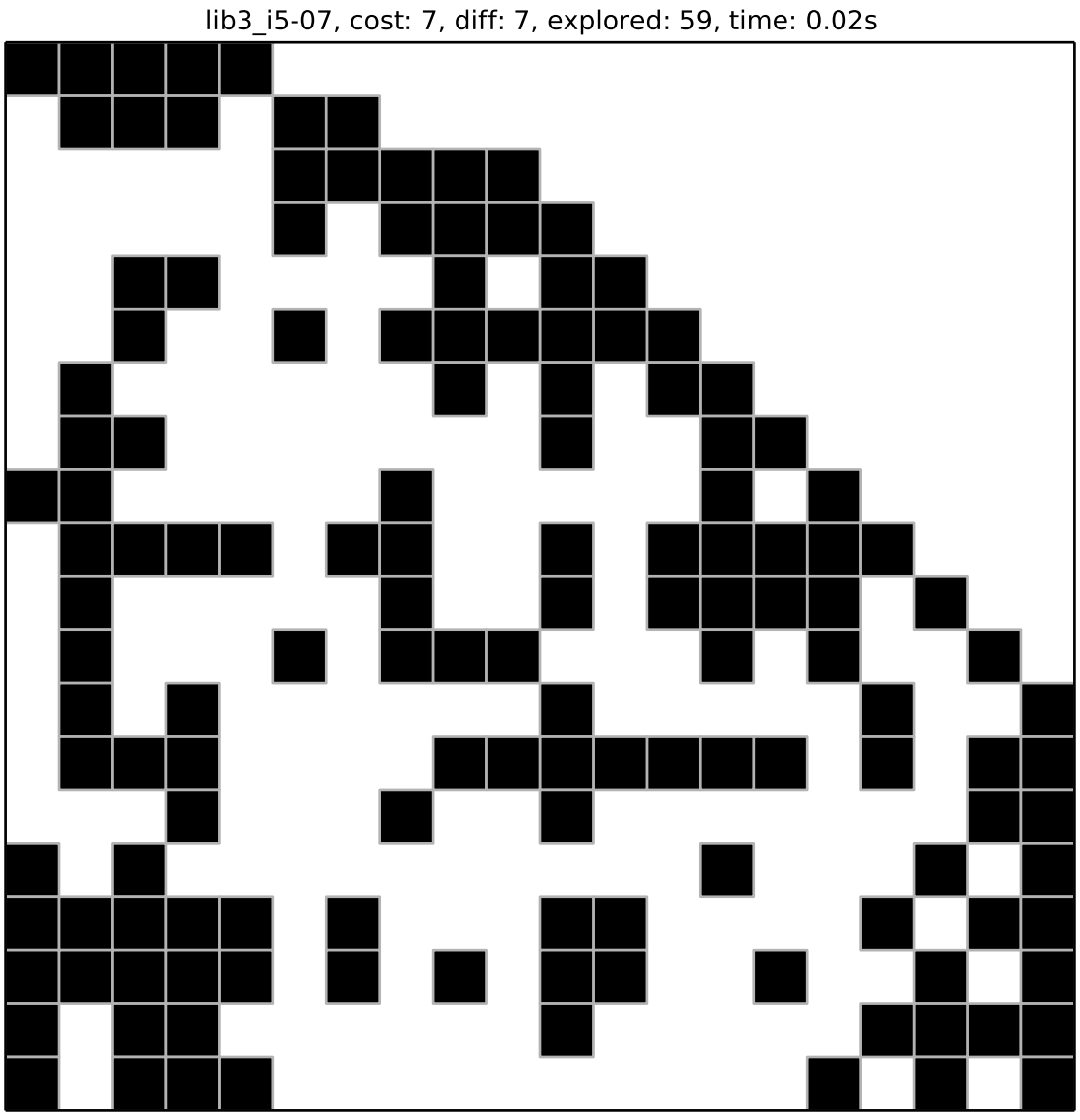
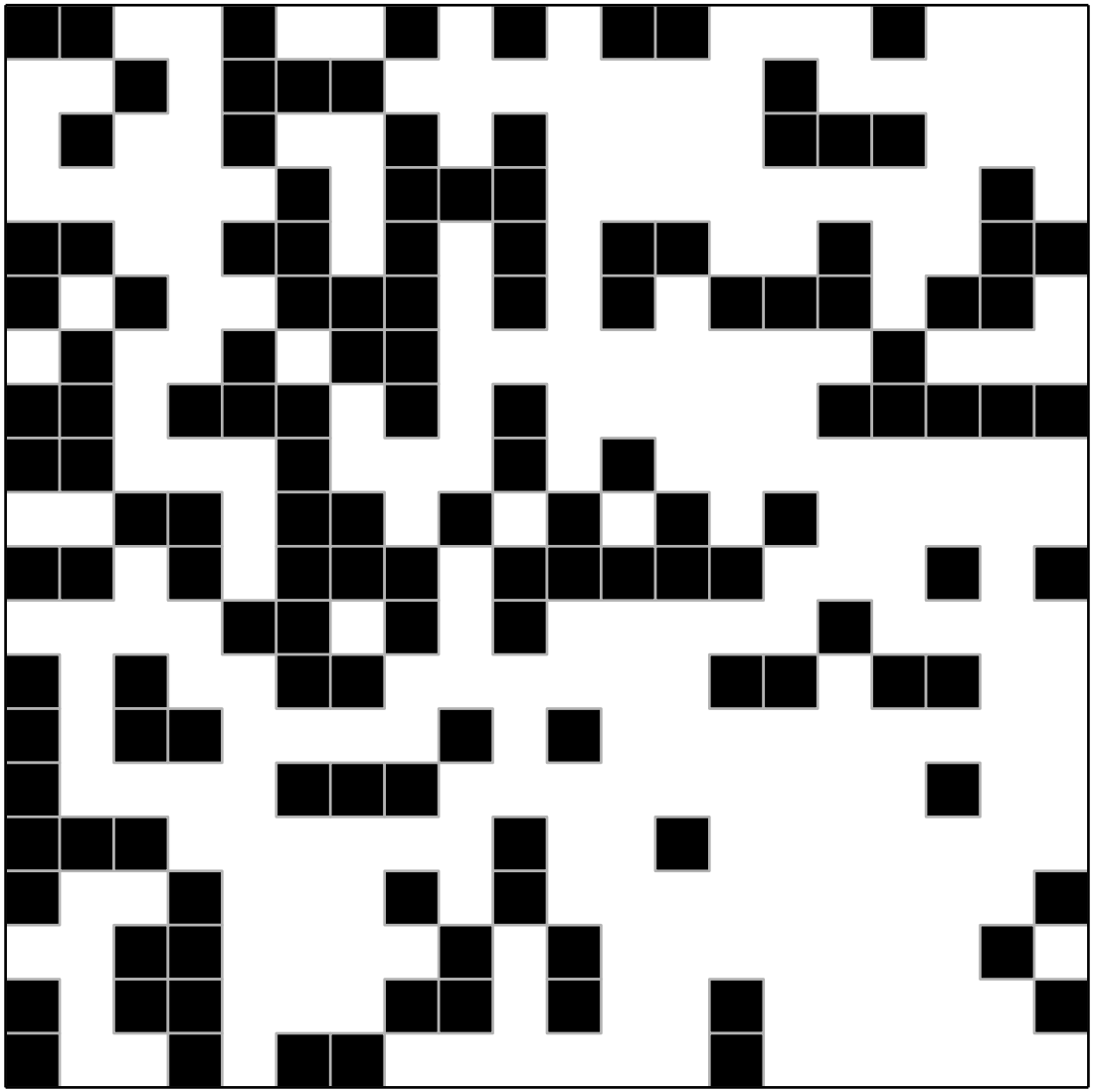
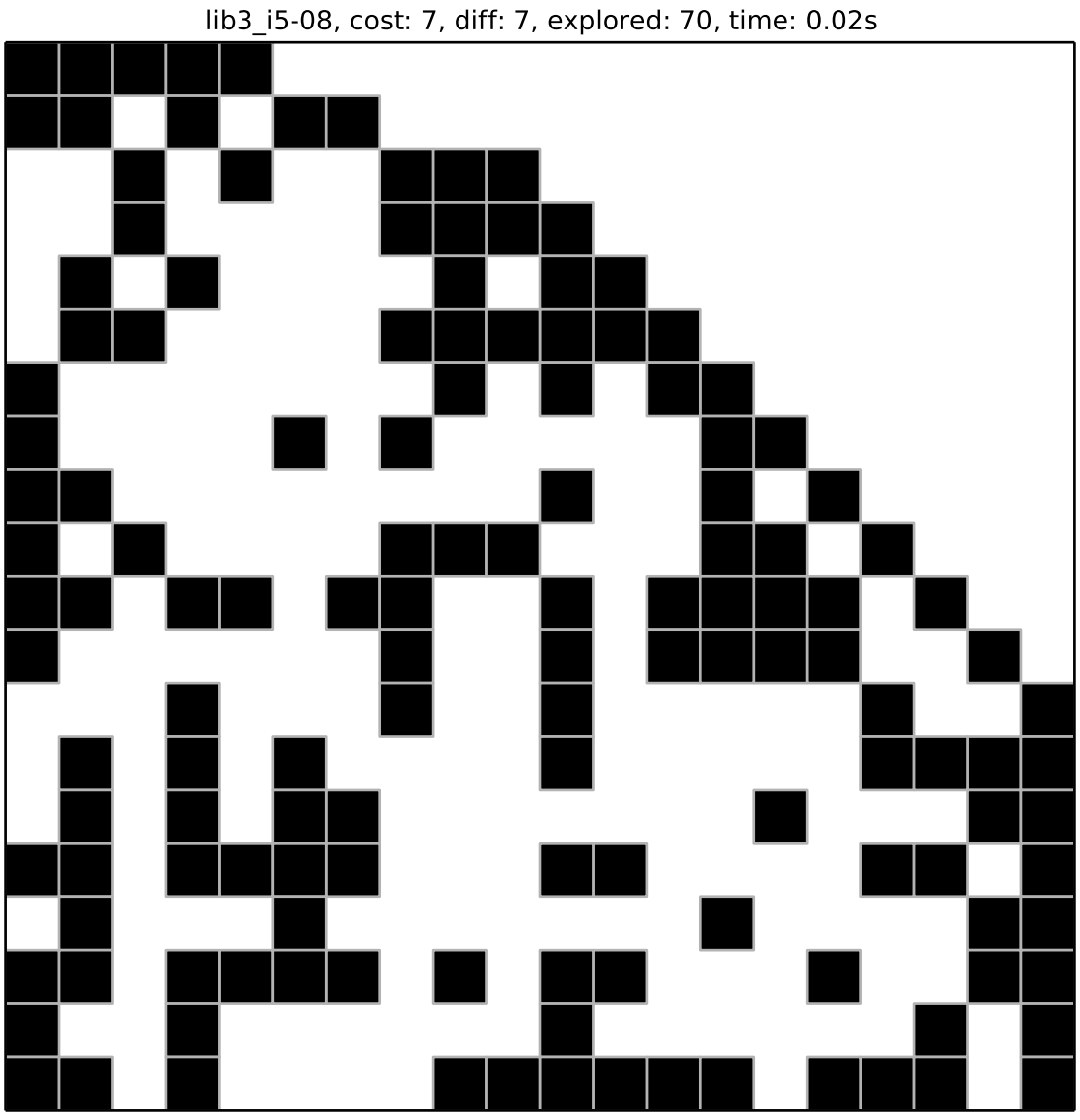
lib3_i5-07 20x20 (142) con: 10, var: 10



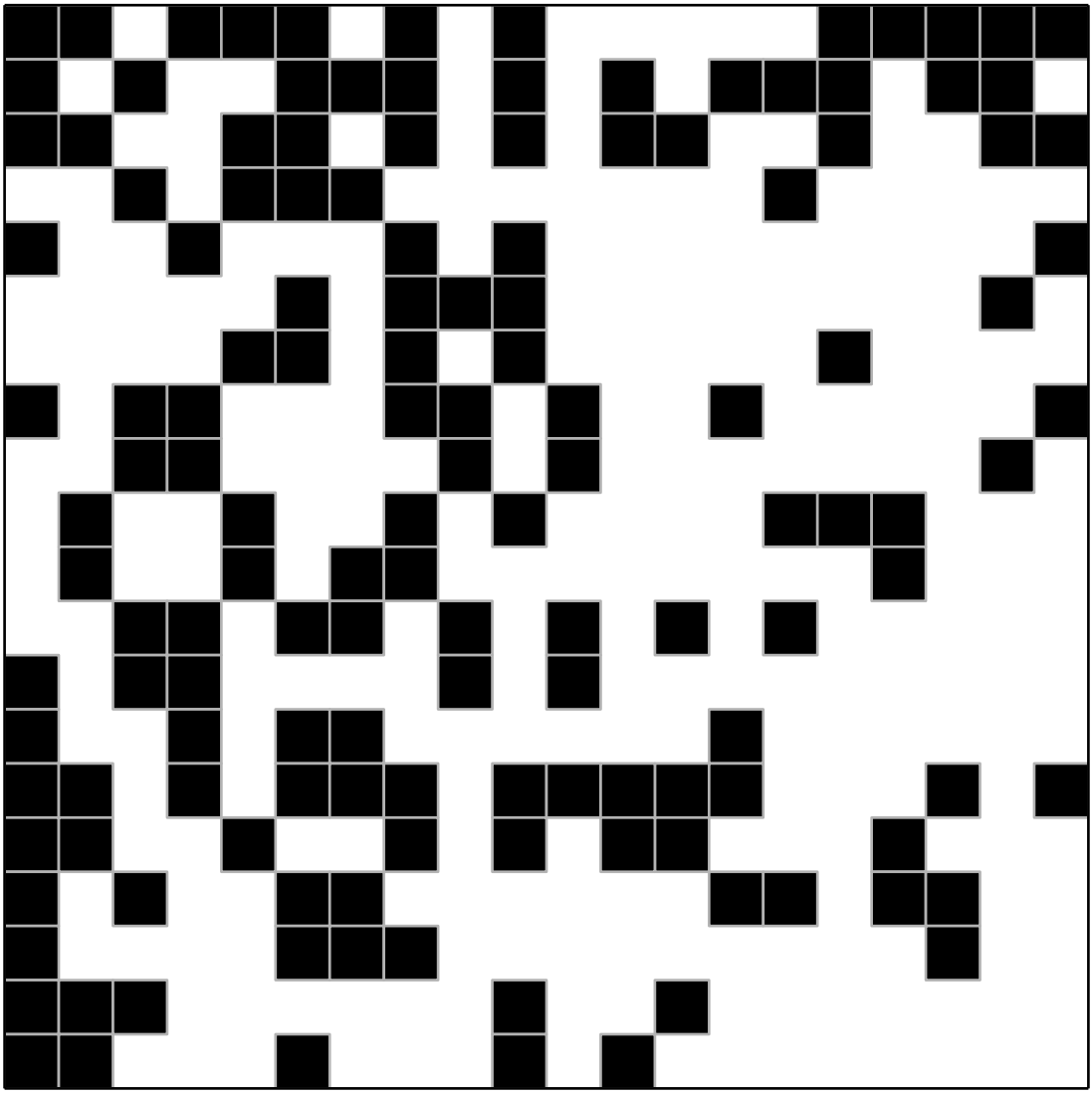

lib3_i5-07, cost: 7, diff: 7, explored: 59, time: 0.02s

lib3_i5-08 20x20 (142) con: 10, var: 10

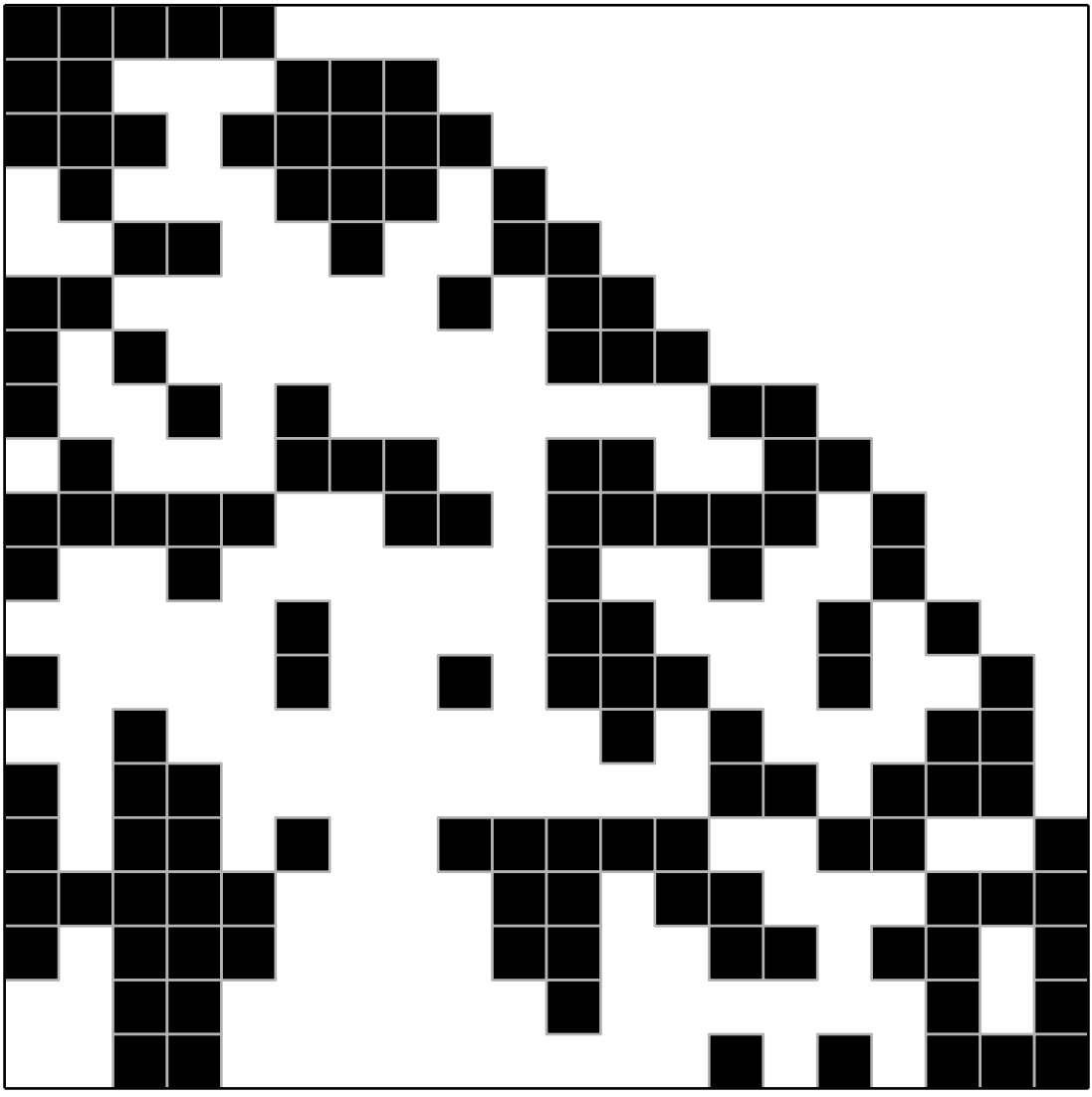


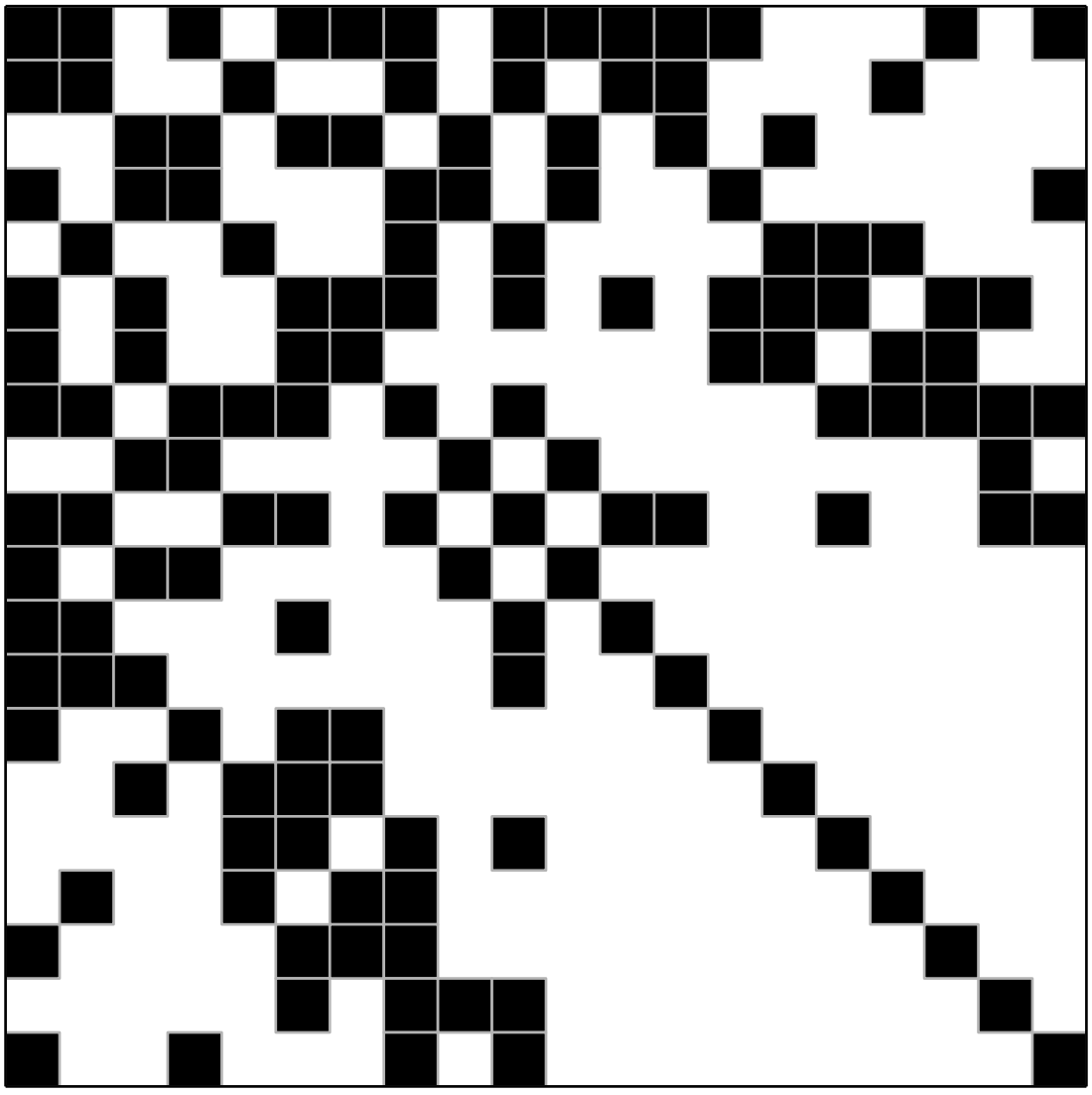

lib3_i5-08, cost: 7, diff: 7, explored: 70, time: 0.02s

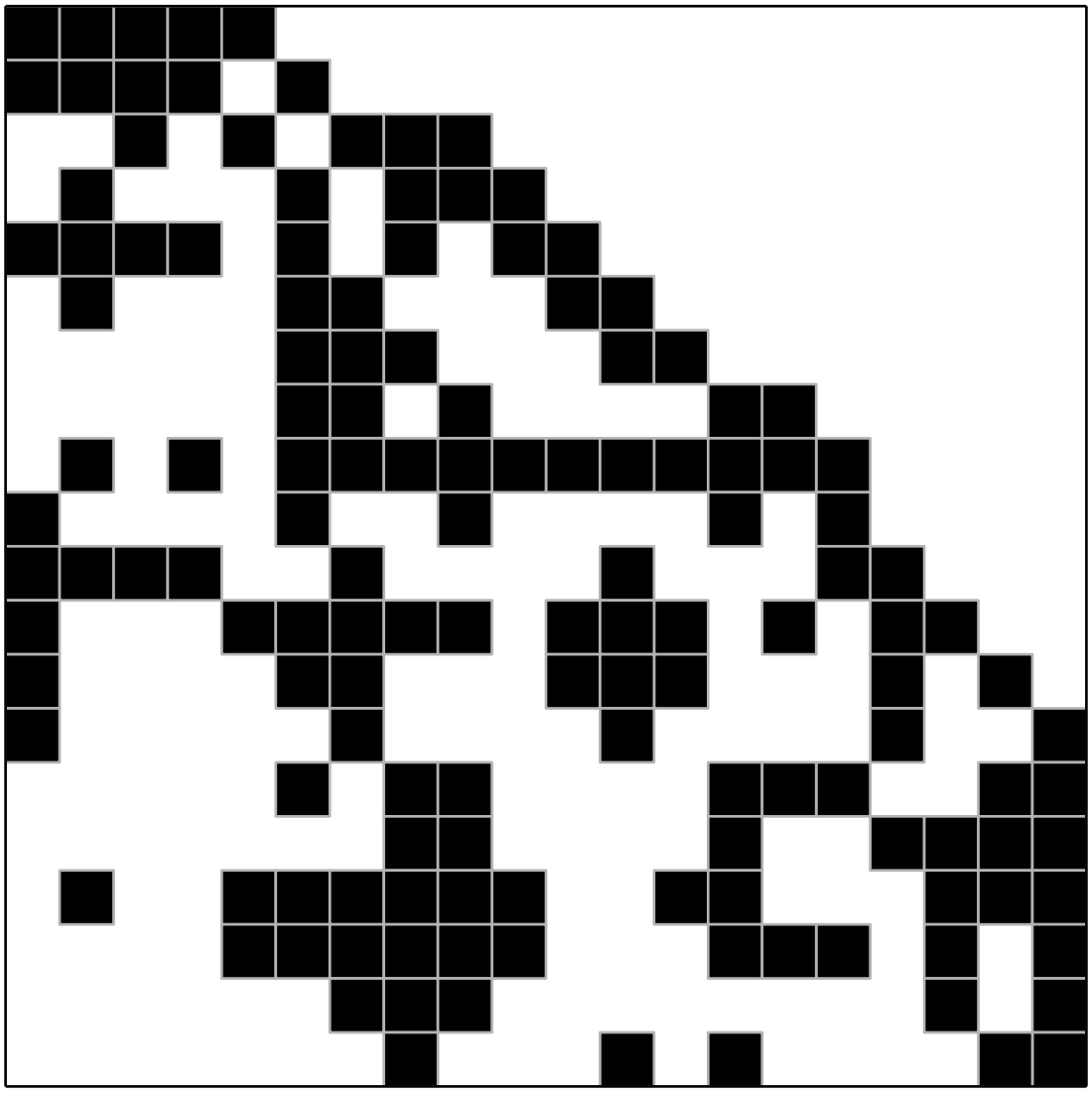
lib3_i5-09 20x20 (142) con: 10, var: 10



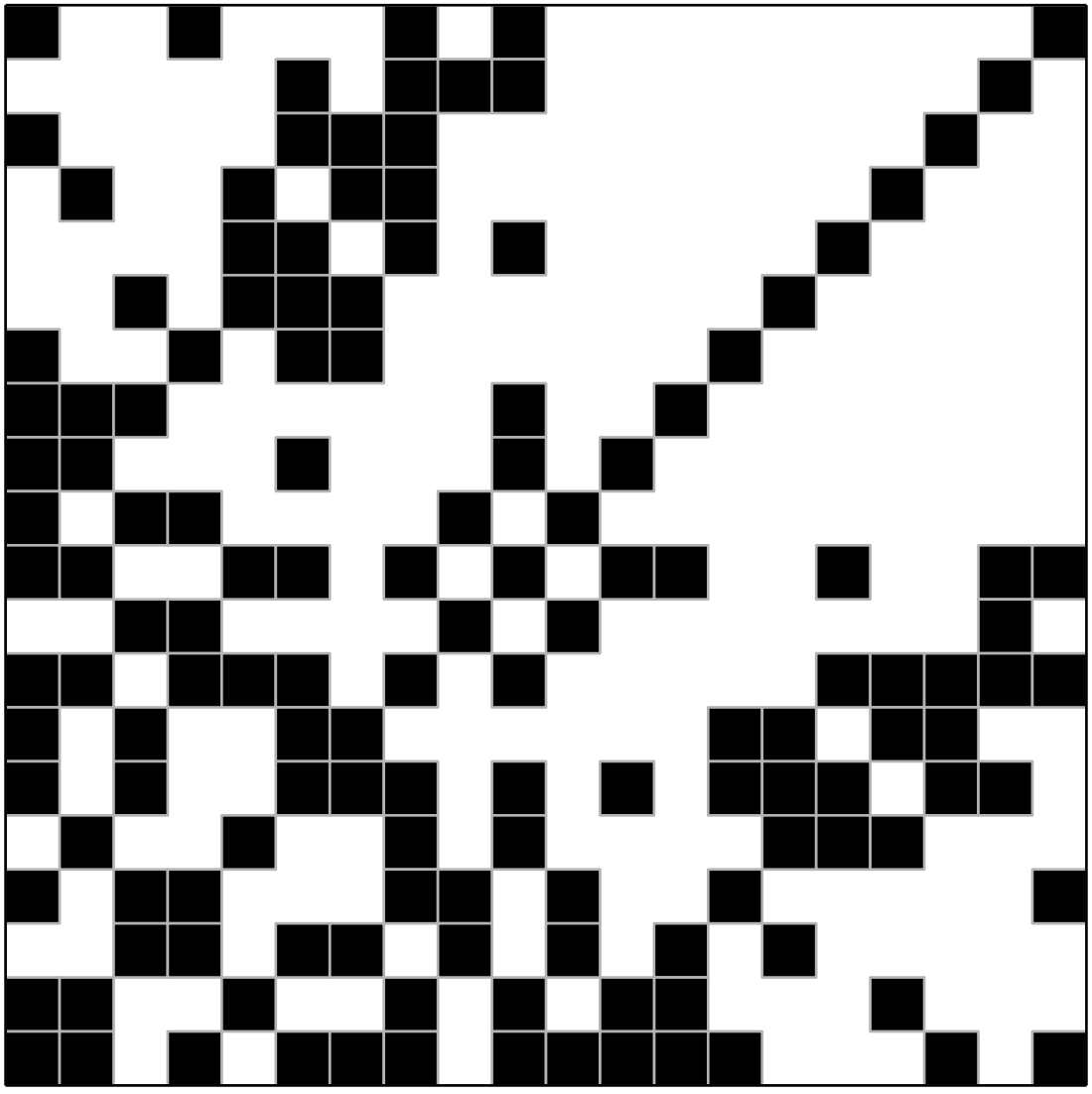
lib3_i5-09, cost: 7, diff: 7, explored: 74, time: 0.02s

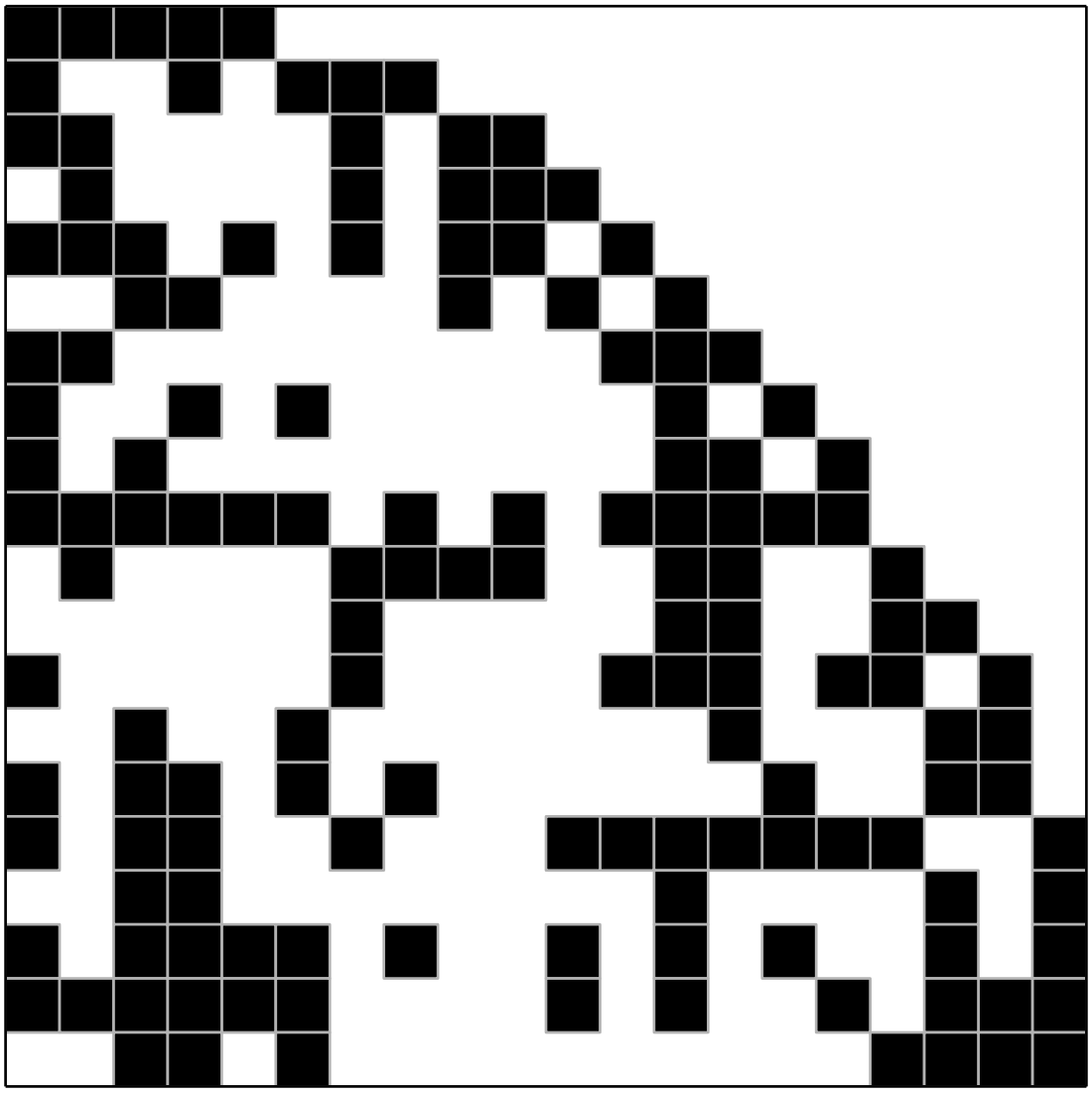



lib3_i5-IN 20x20 (142) con: 10, var: 10


lib3_i5-IN, cost: 7, diff: 7, explored: 52, time: 0.01s

lib3_i5-RE 20x20 (142) con: 10, var: 10

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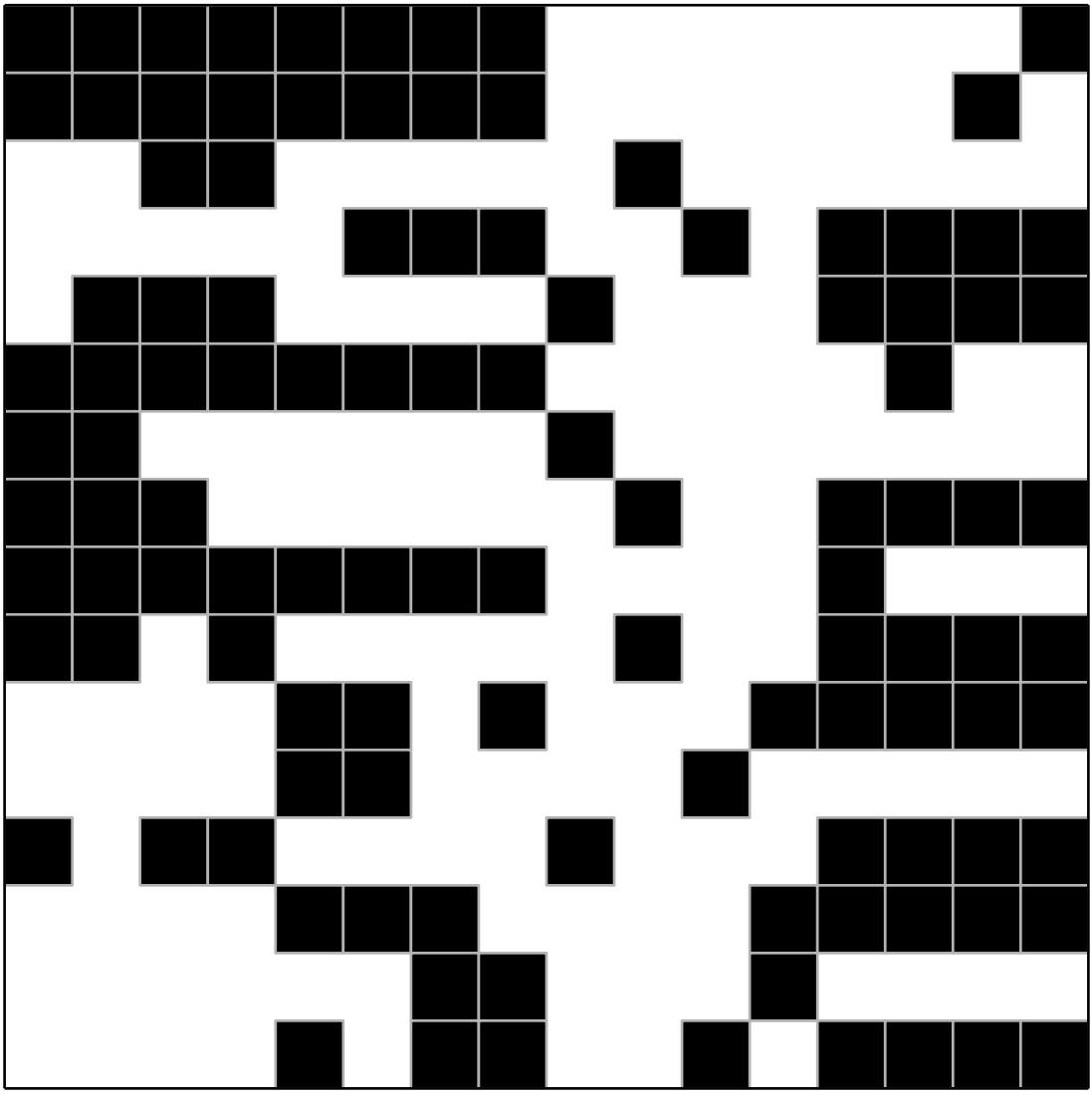
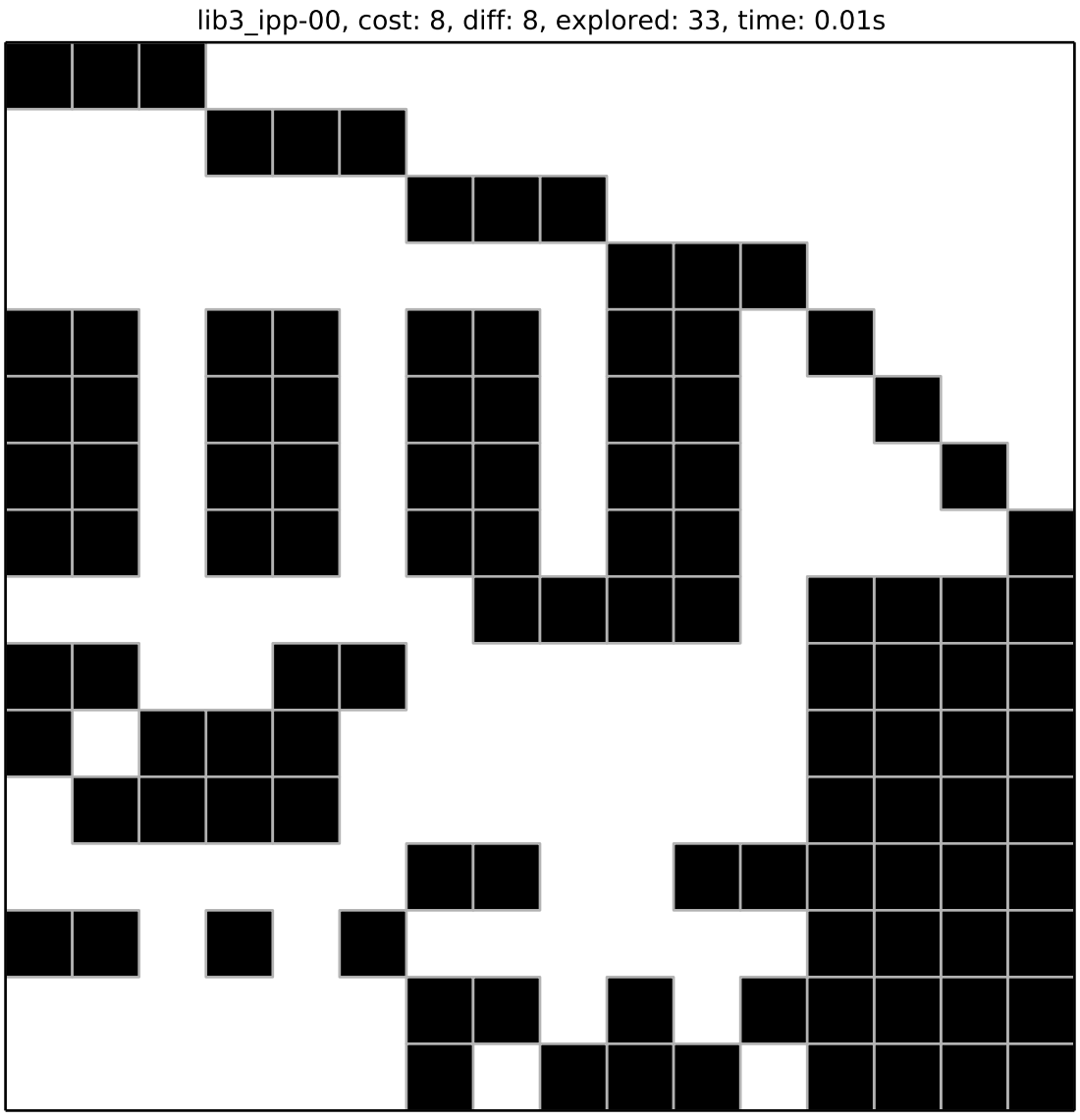
lib3_ipp-00 16x16 (112) con: 8, var: 8

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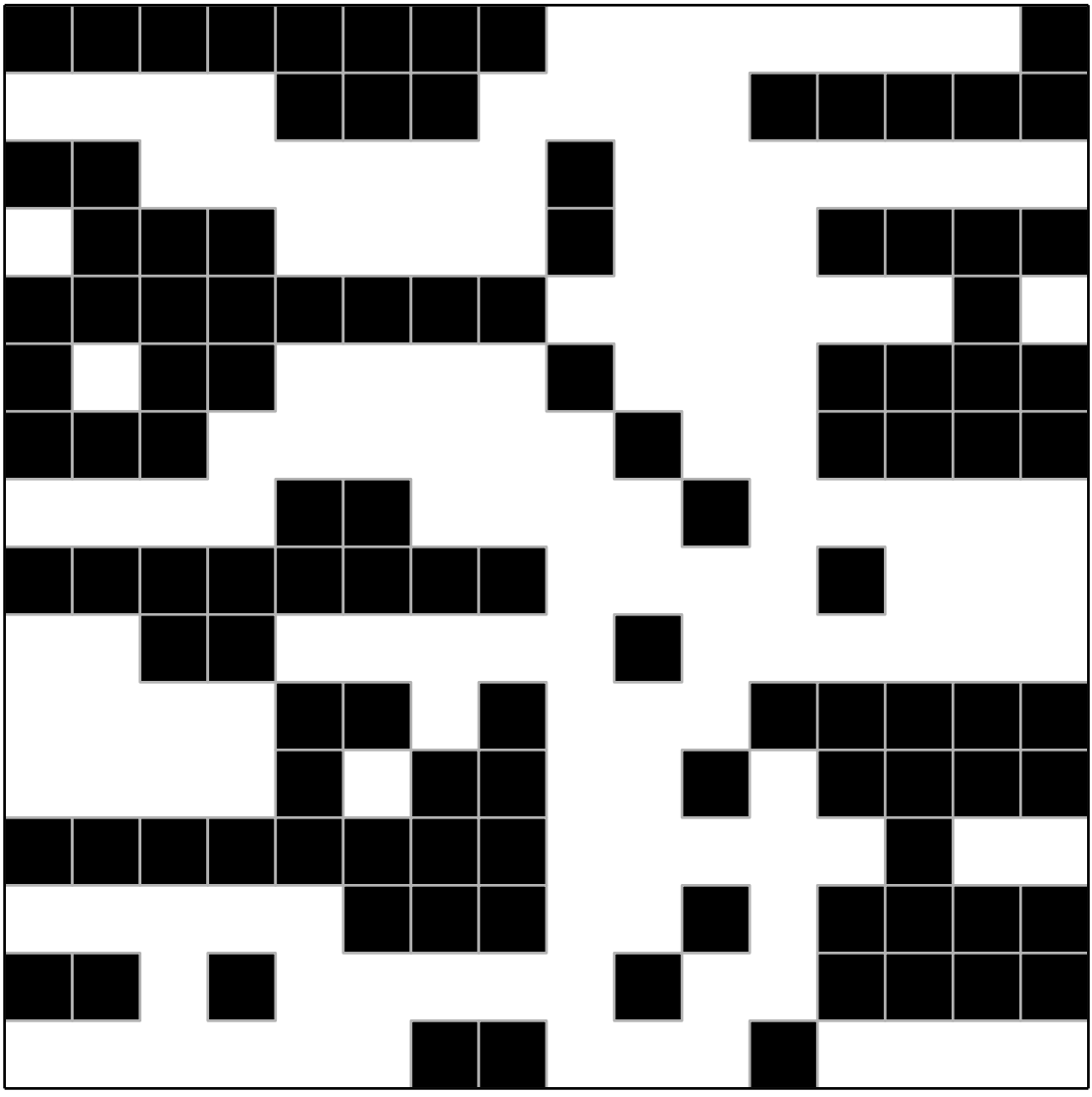
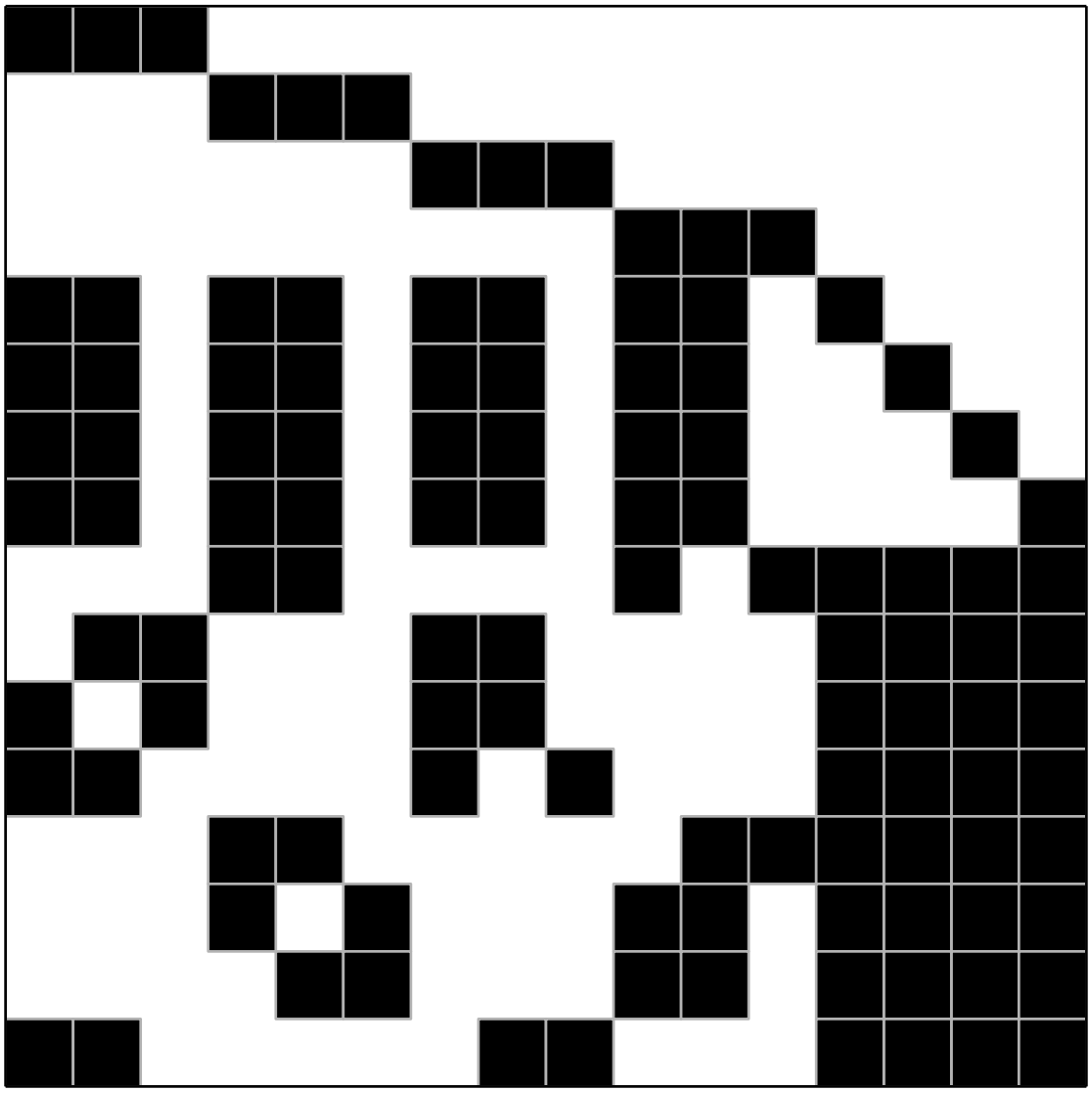
lib3_ipp-01 16x16 (112) con: 8, var: 8

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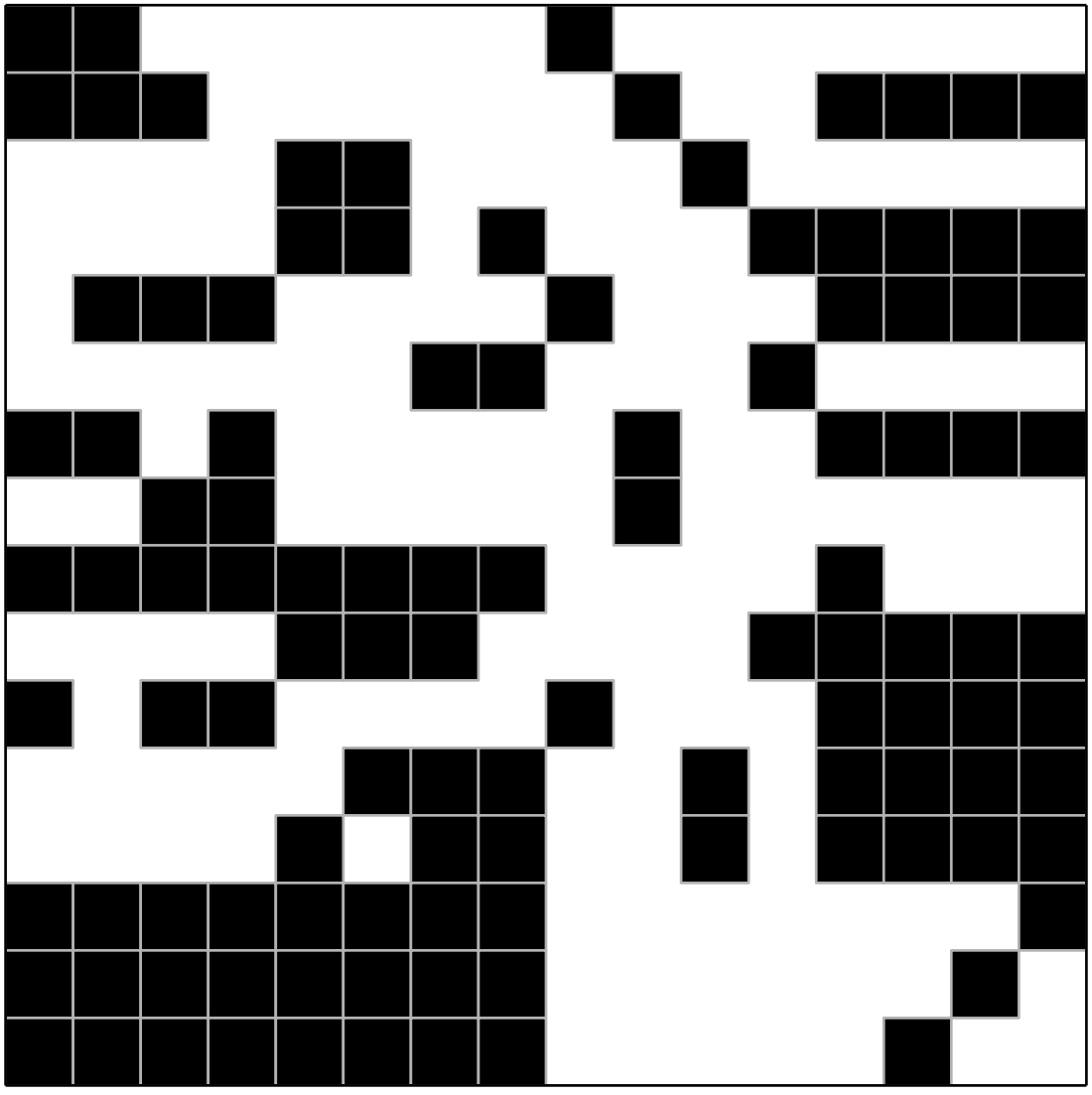

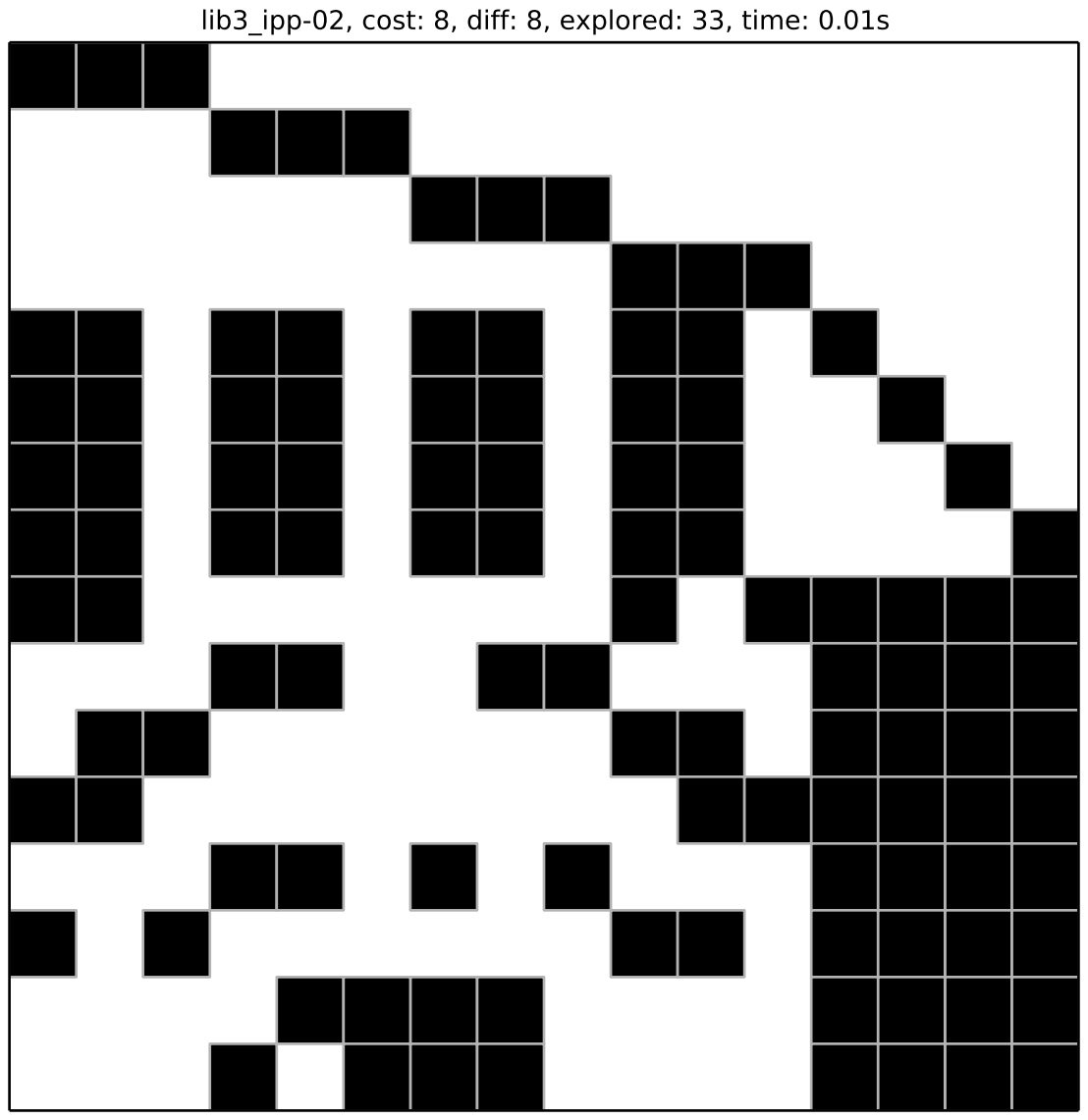
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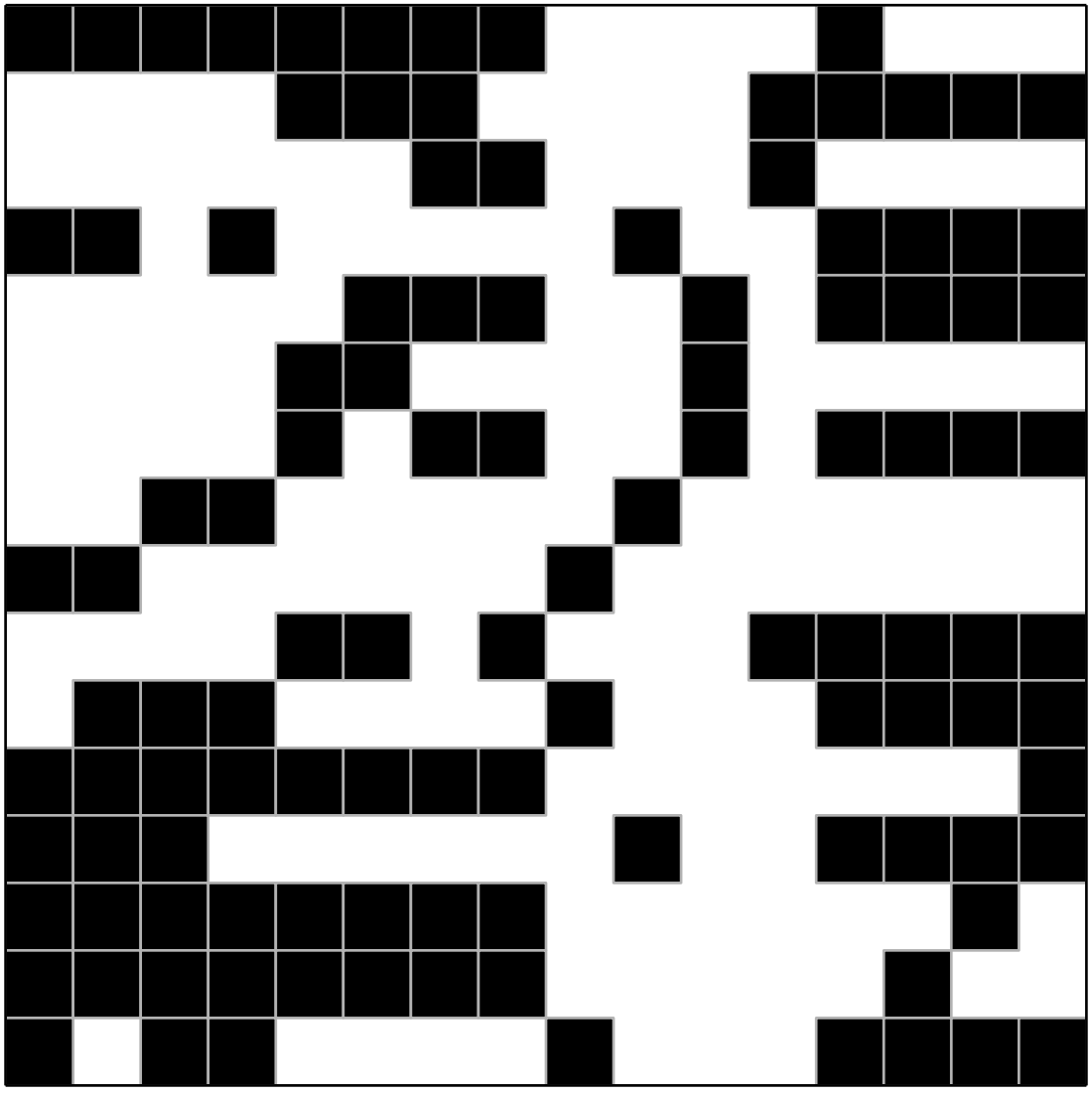
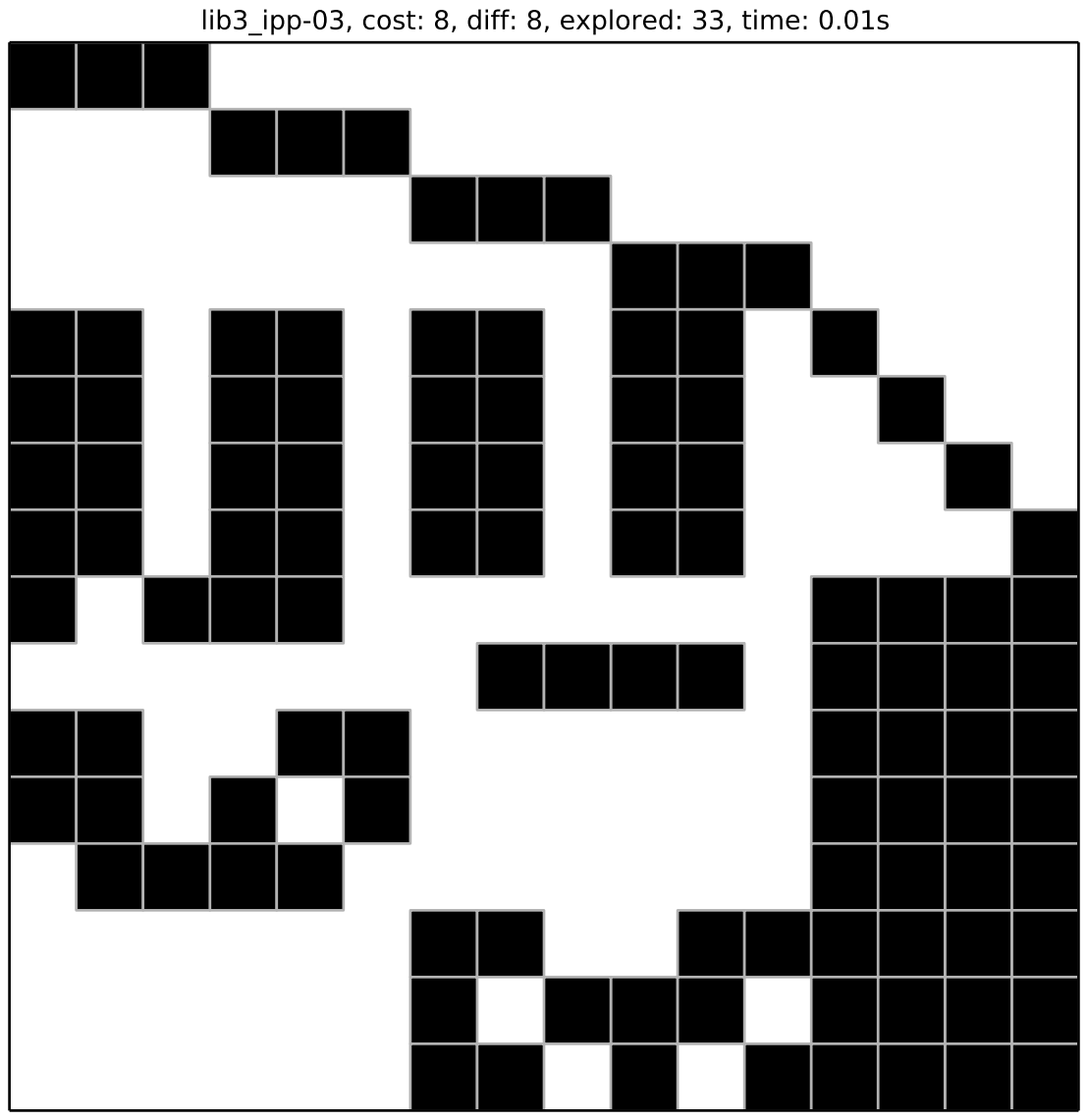
lib3_ipp-03 16x16 (112) con: 8, var: 8

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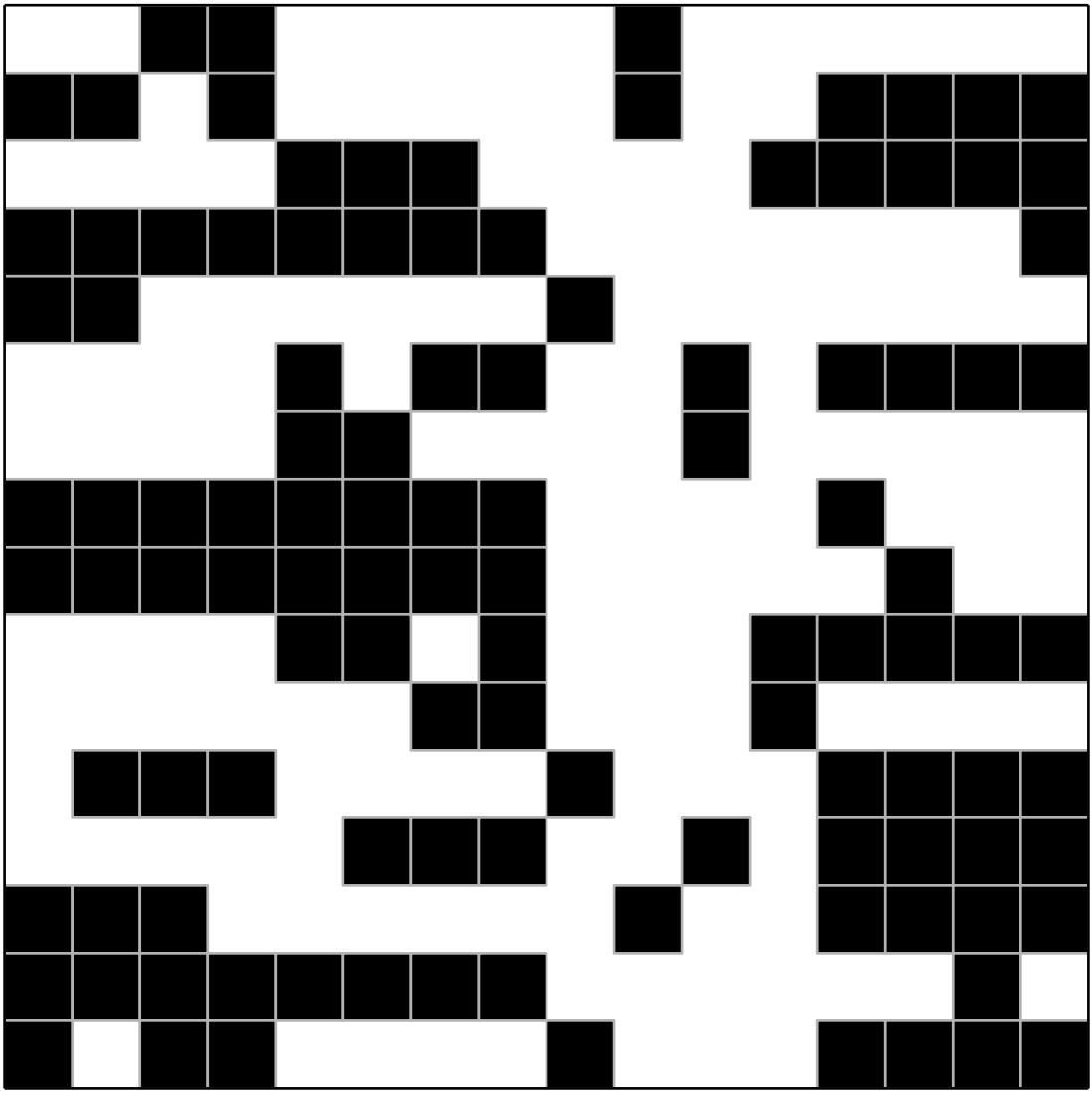

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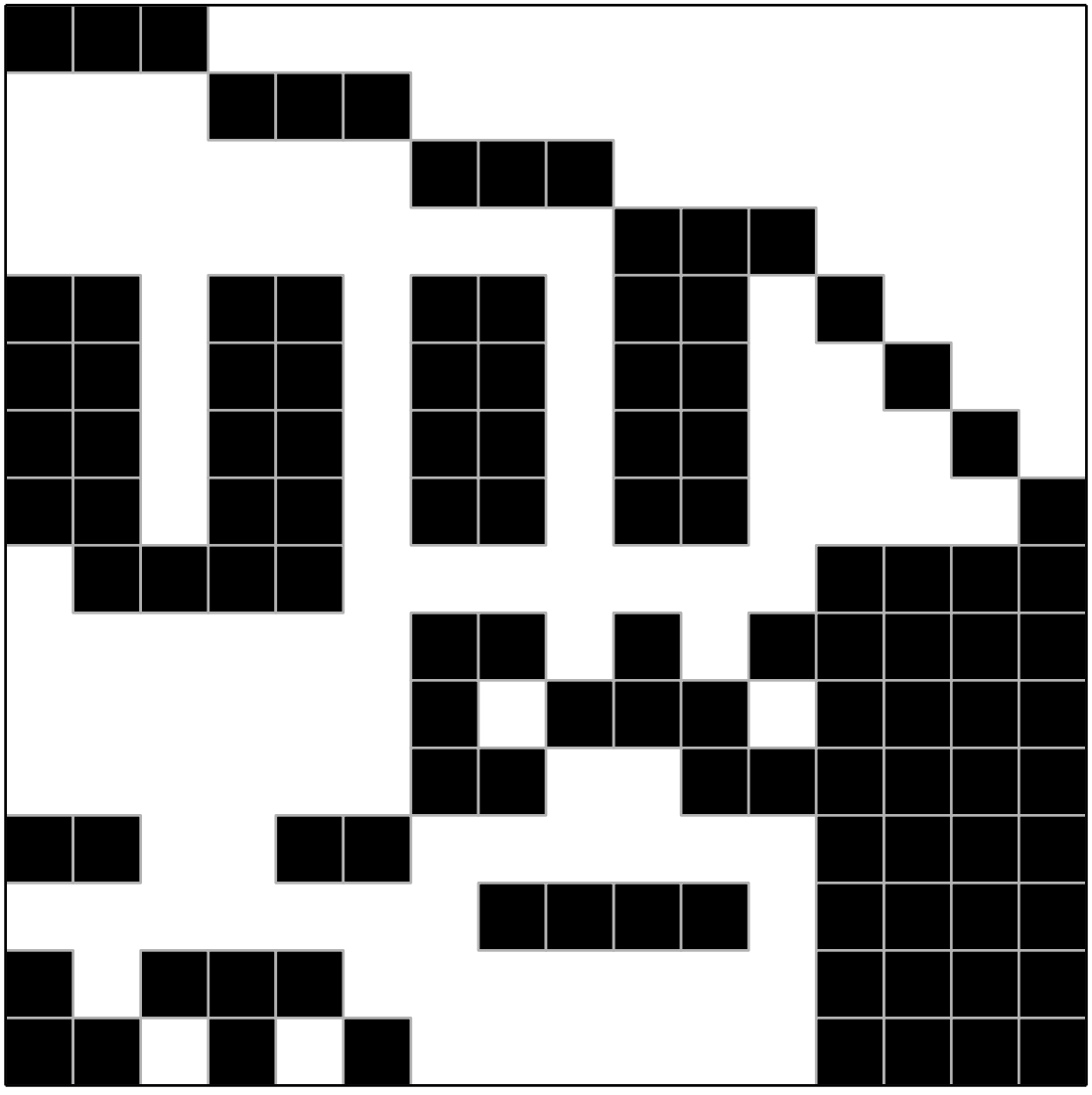
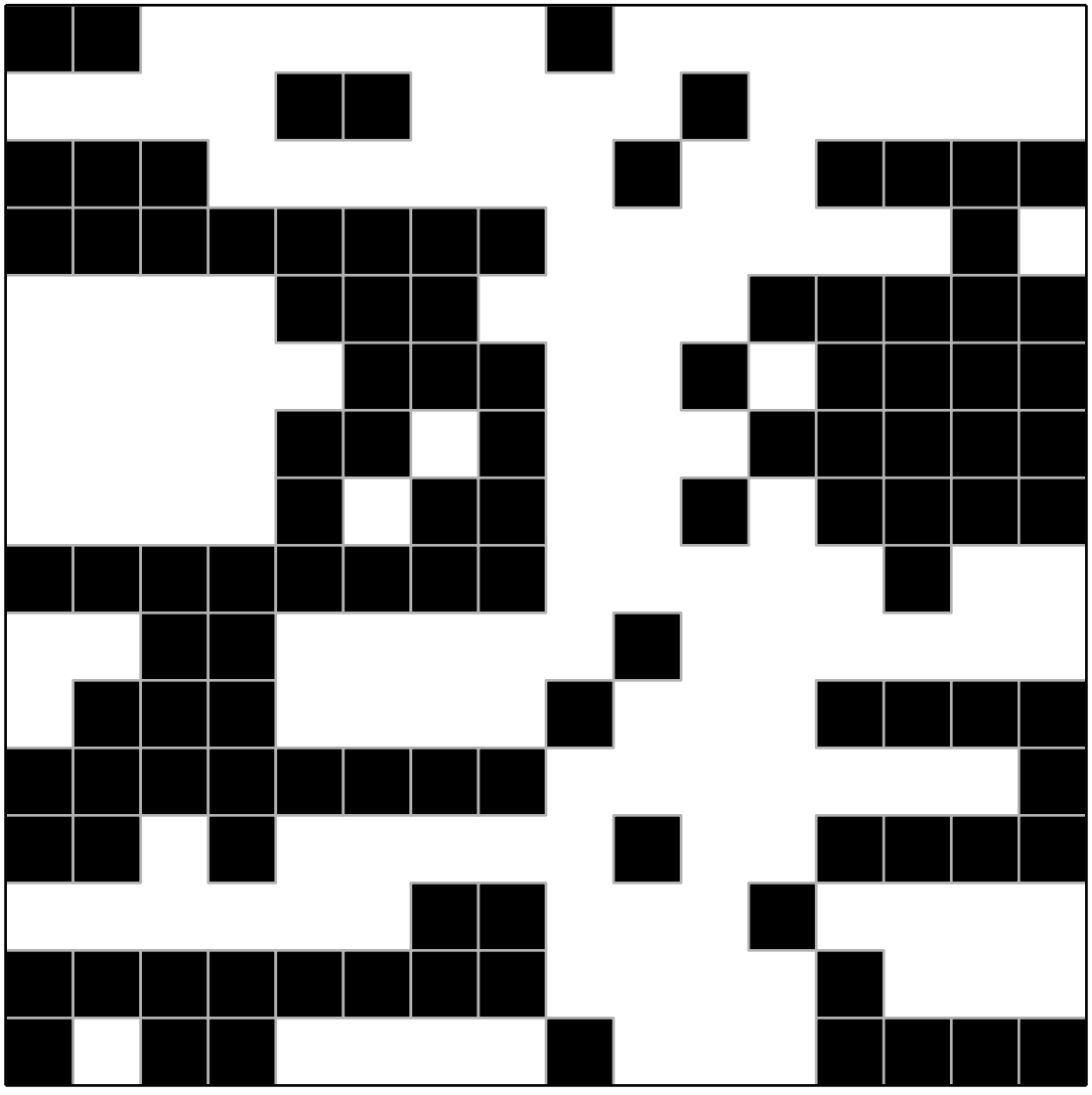
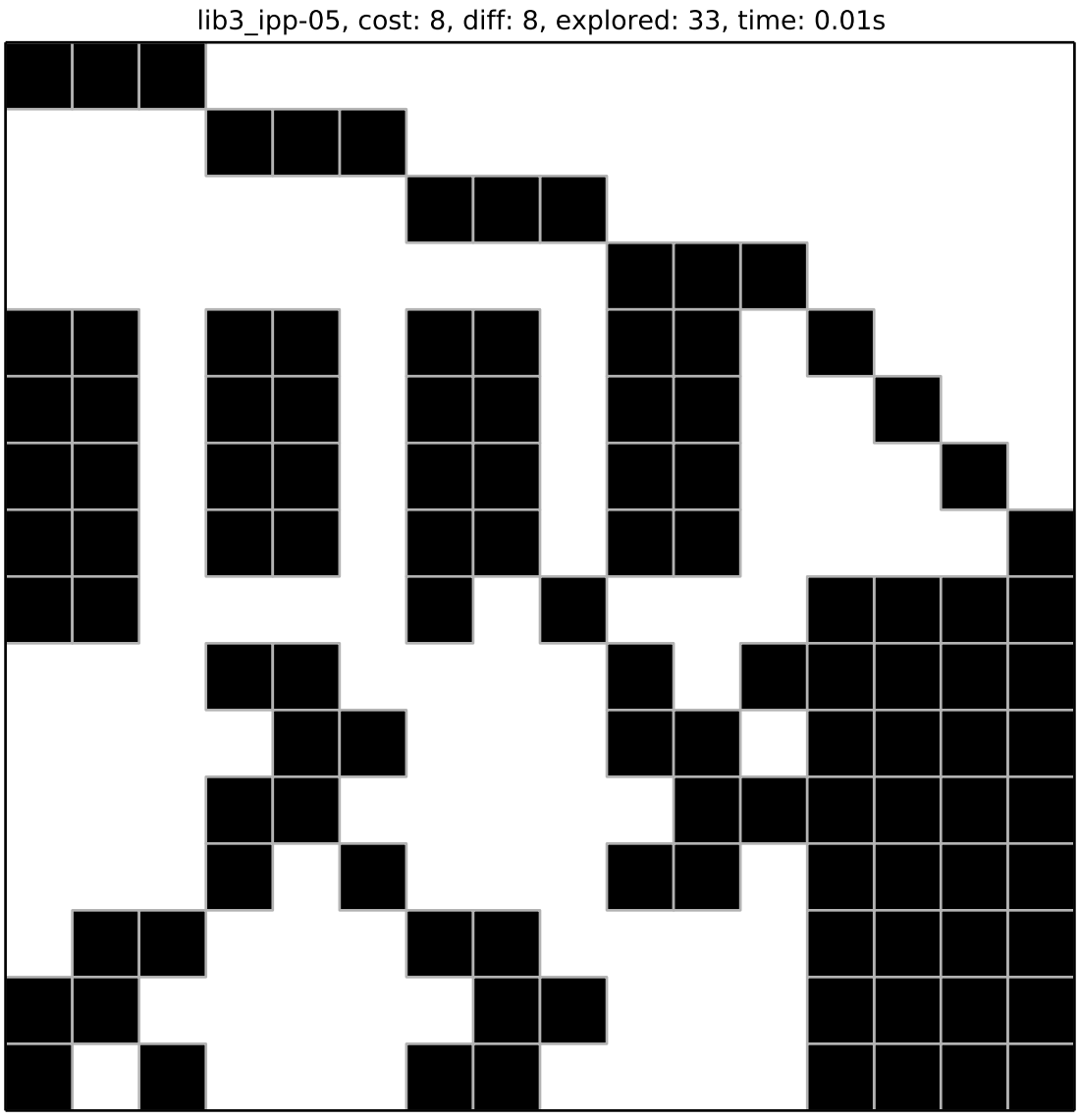


lib3_ipp-05 16x16 (112) con: 8, var: 8

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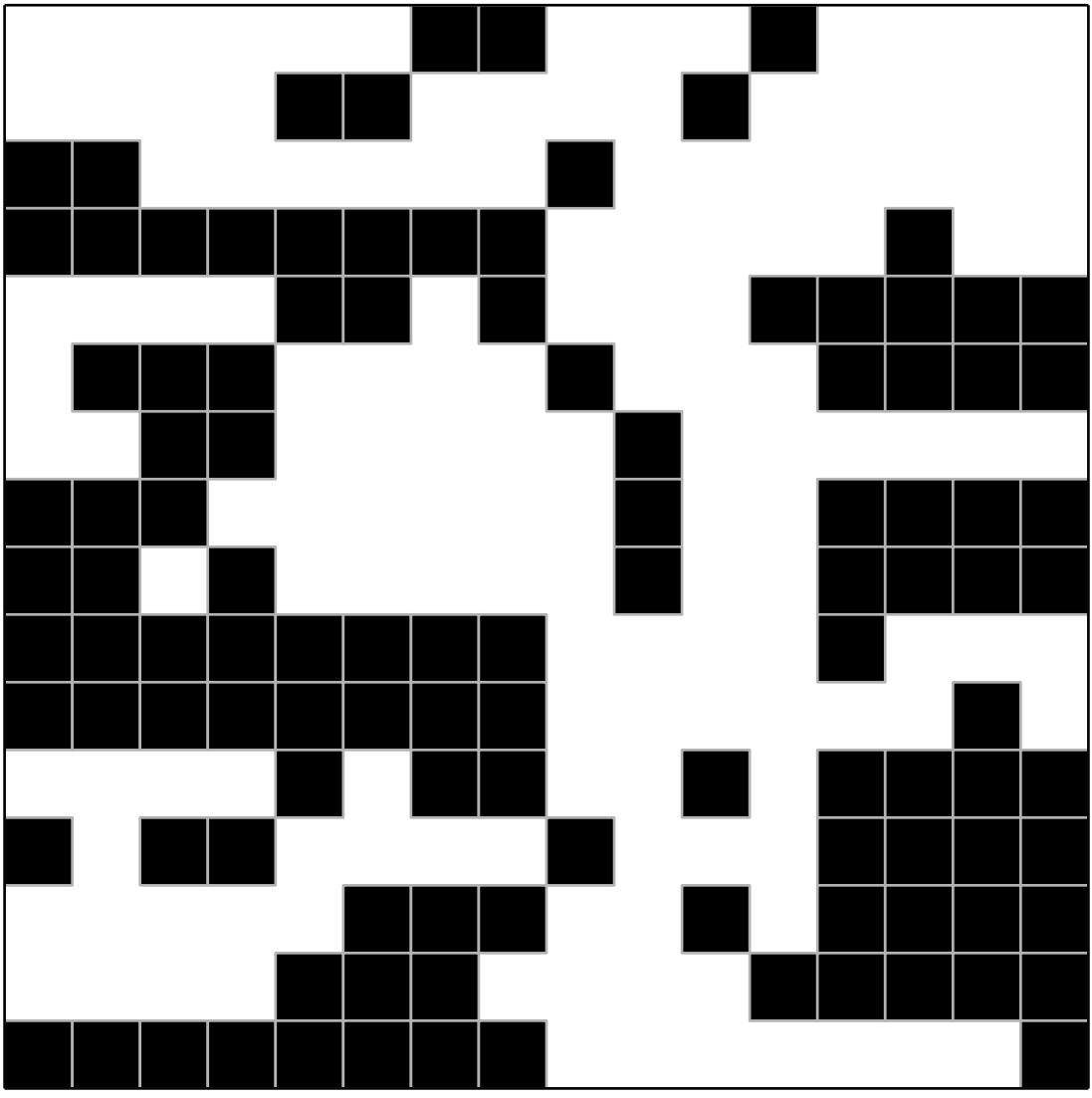
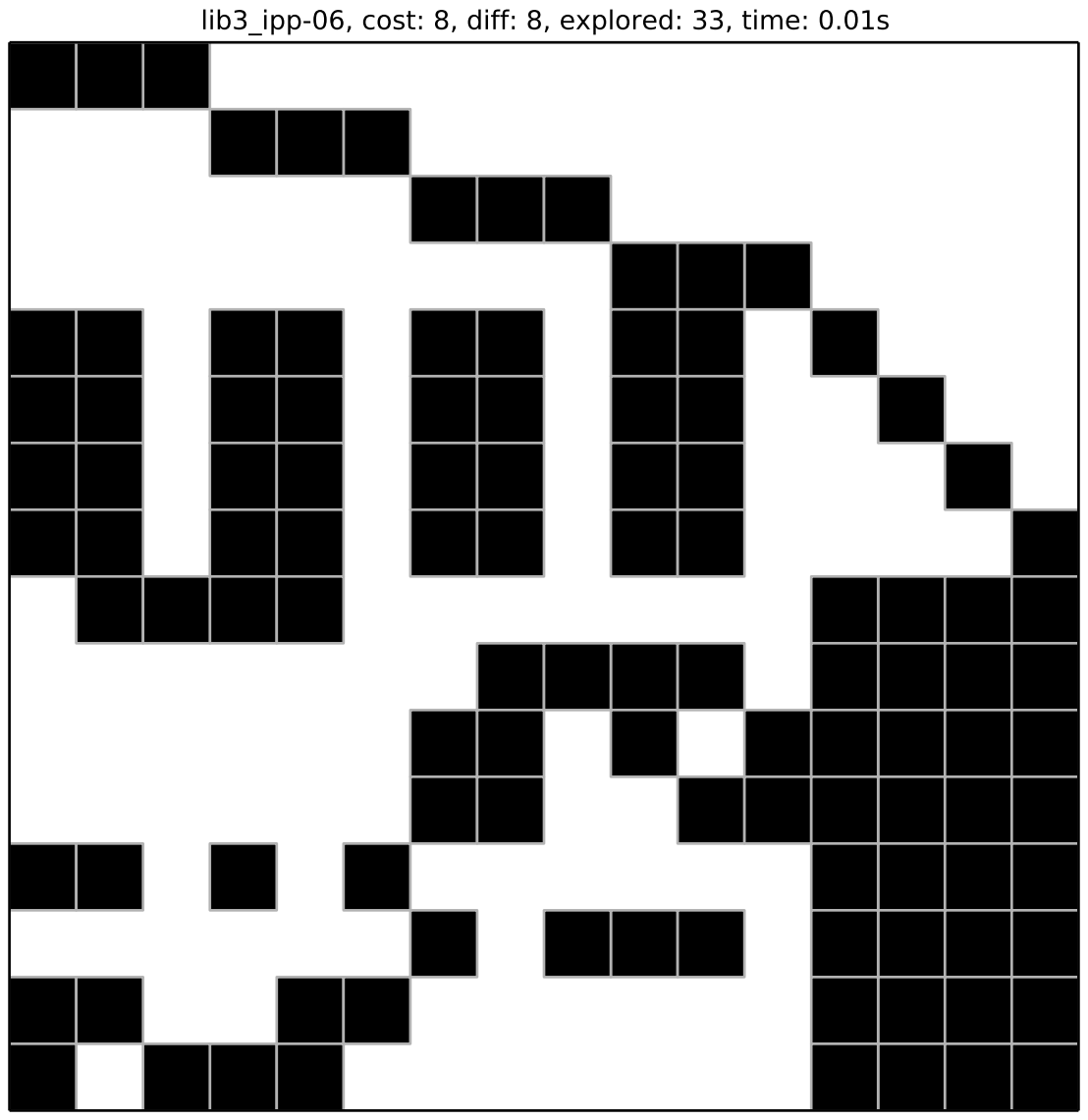
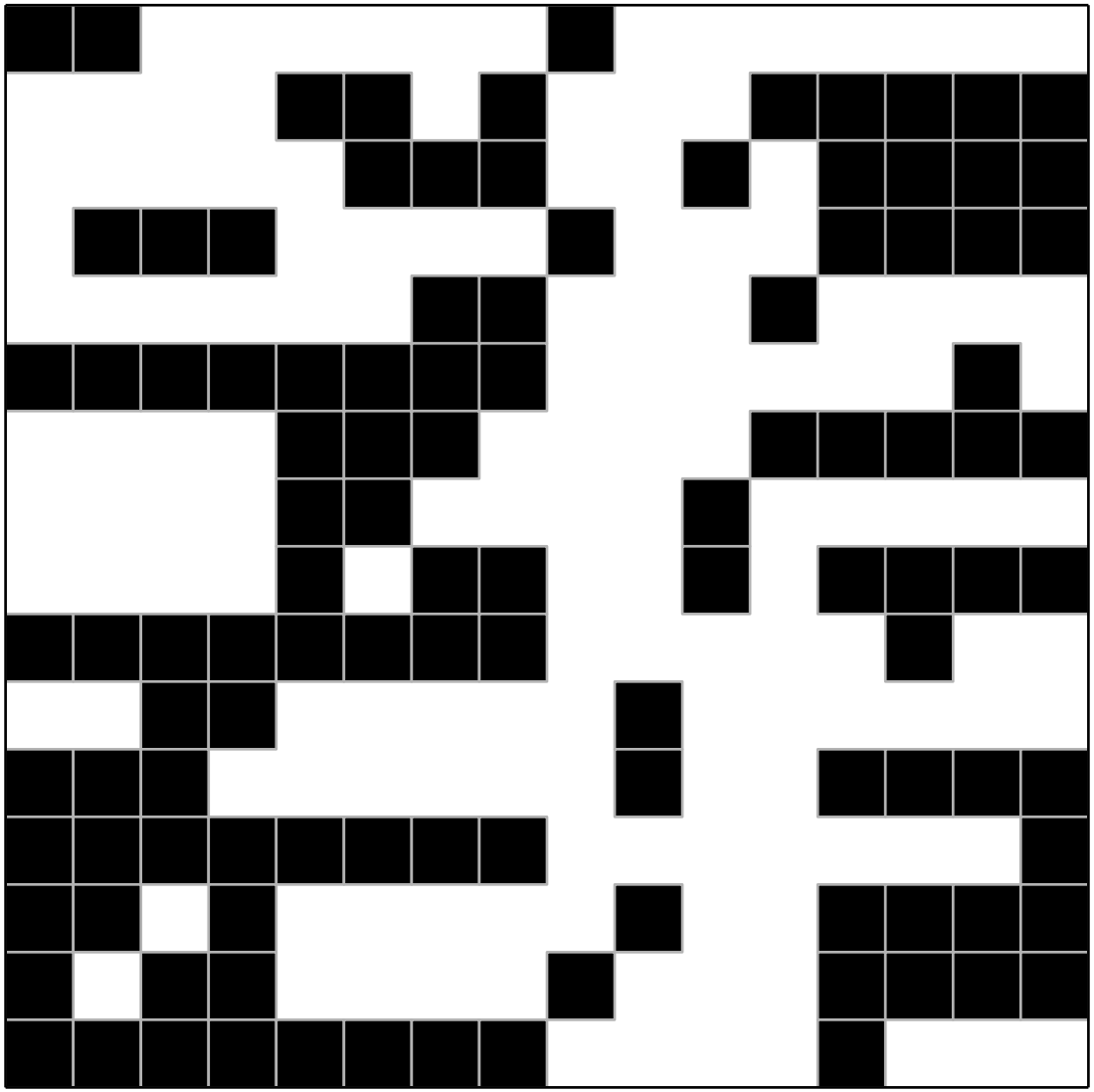
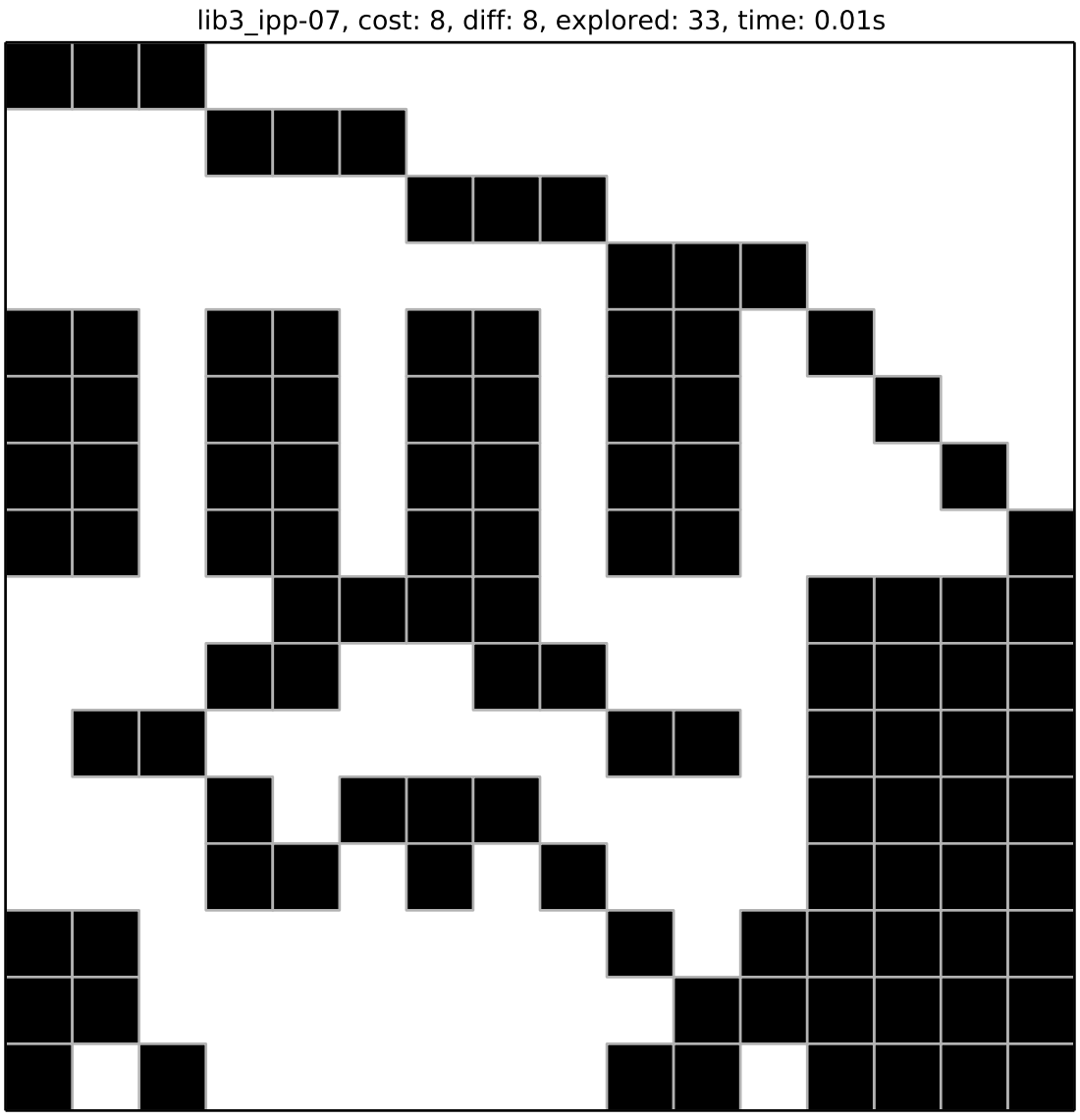
lib3_ipp-06 16x16 (112) con: 8, var: 8




lib3_ipp-06, cost: 8, diff: 8, explored: 33, time: 0.01s

lib3_ipp-07 16x16 (112) con: 8, var: 8

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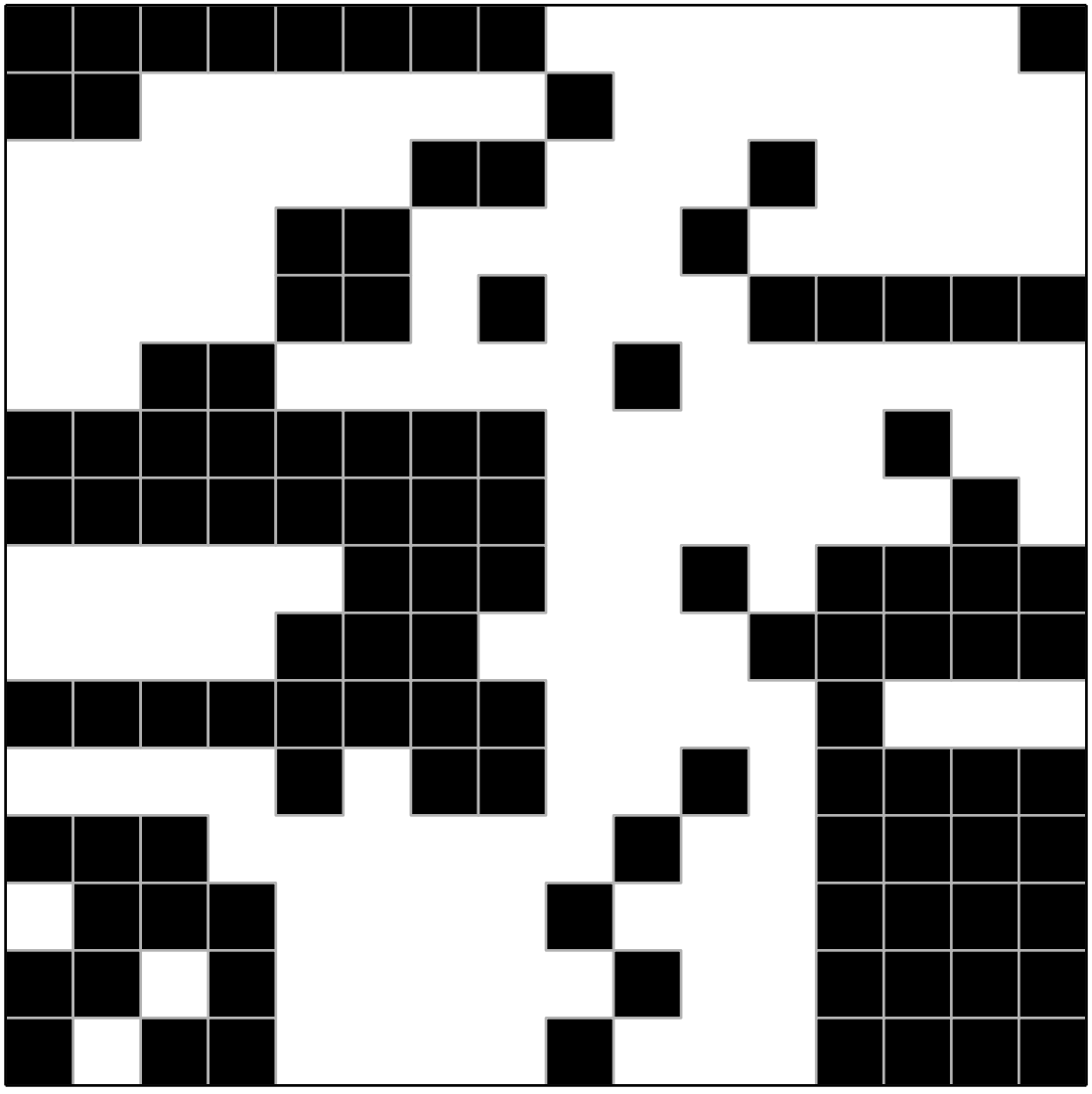
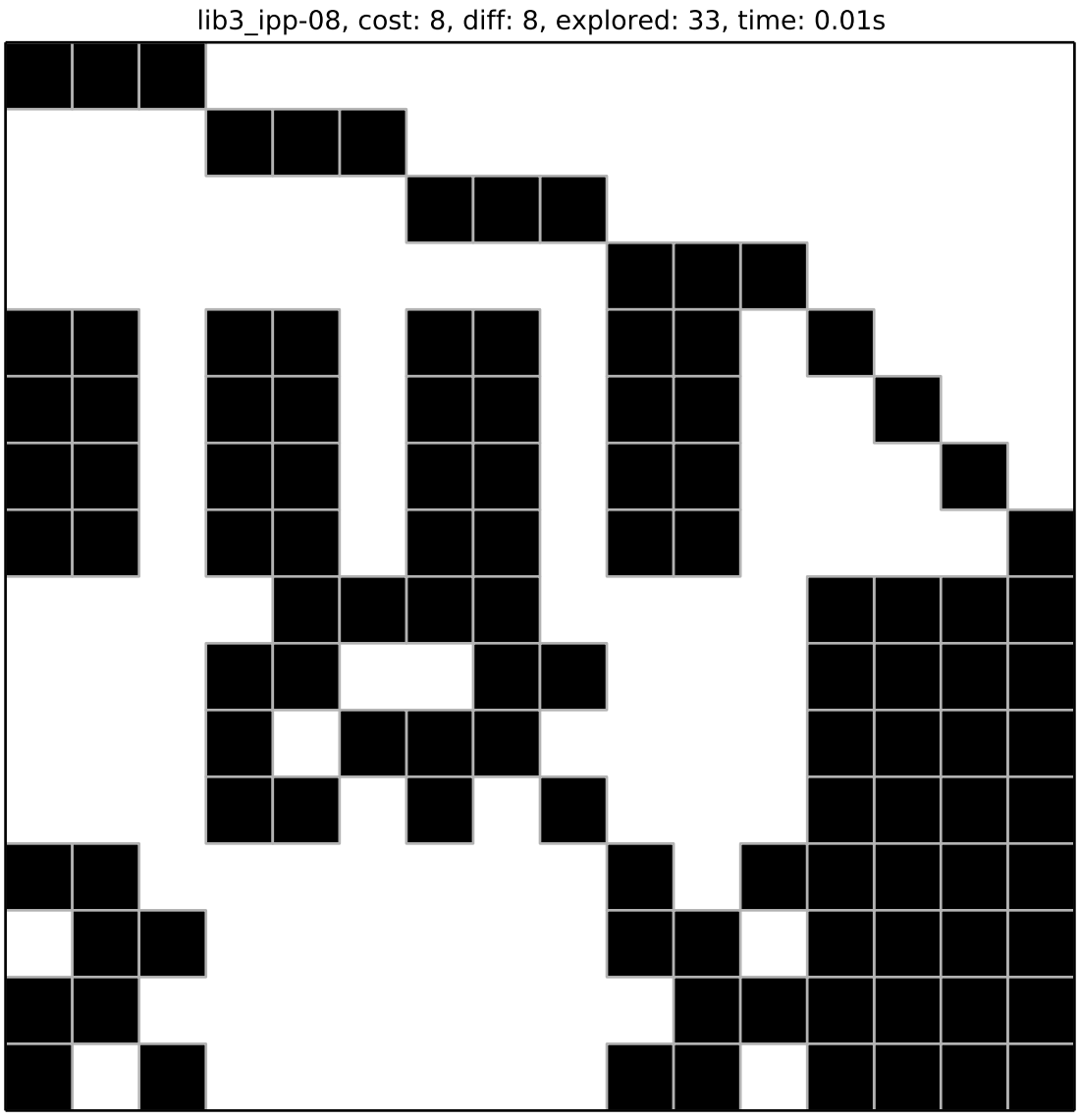
lib3_ipp-08 16x16 (112) con: 8, var: 8

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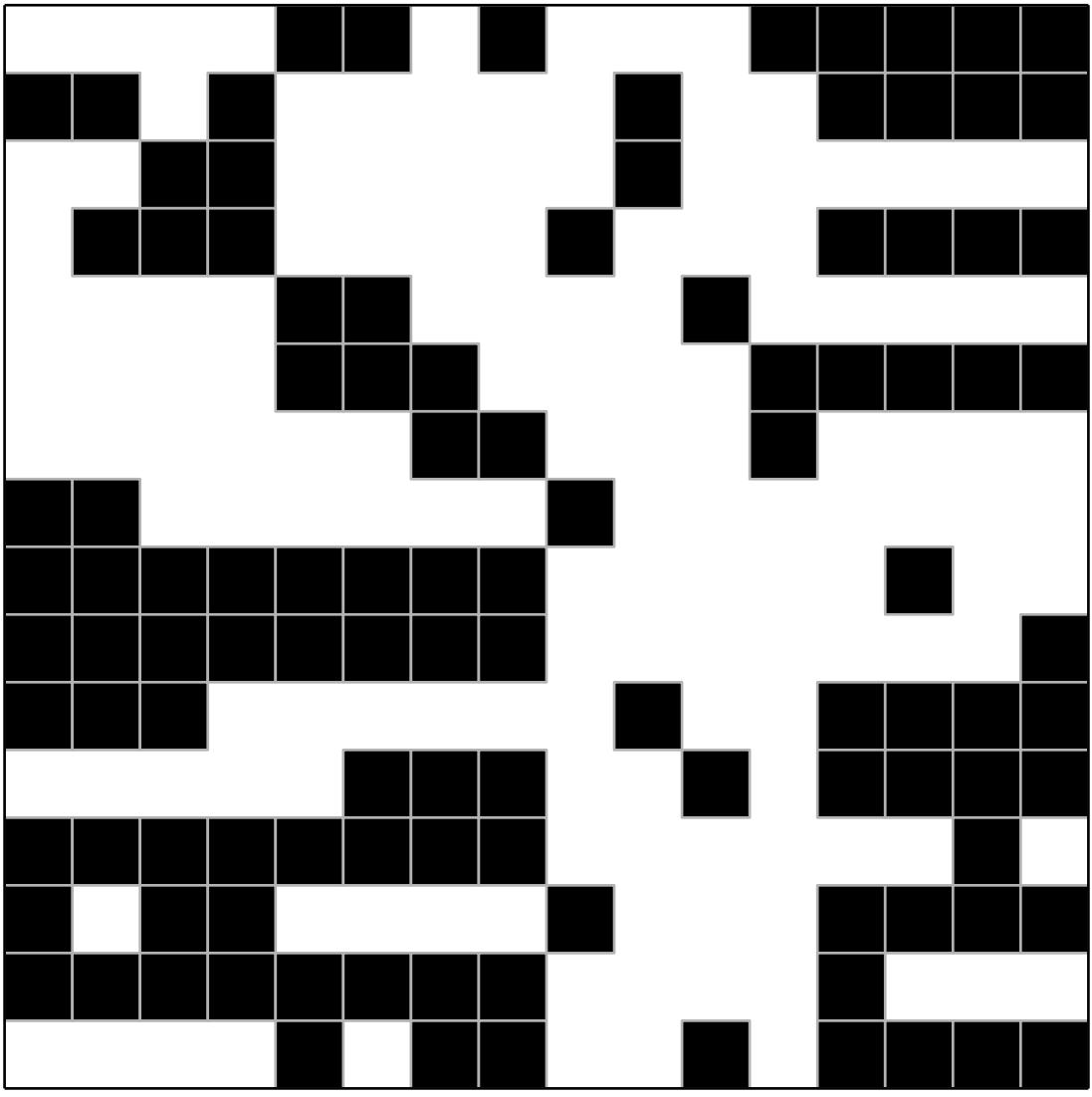
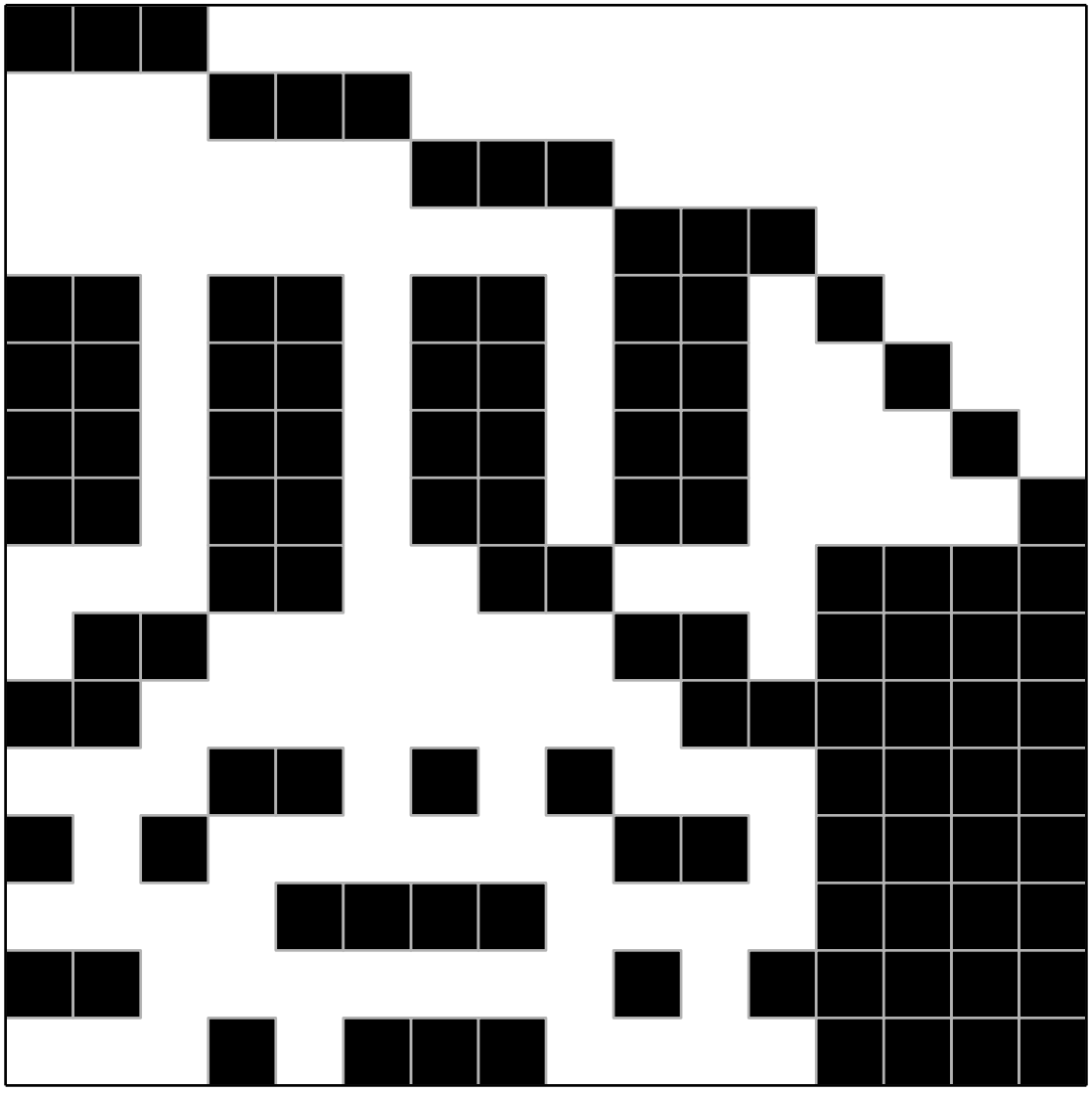
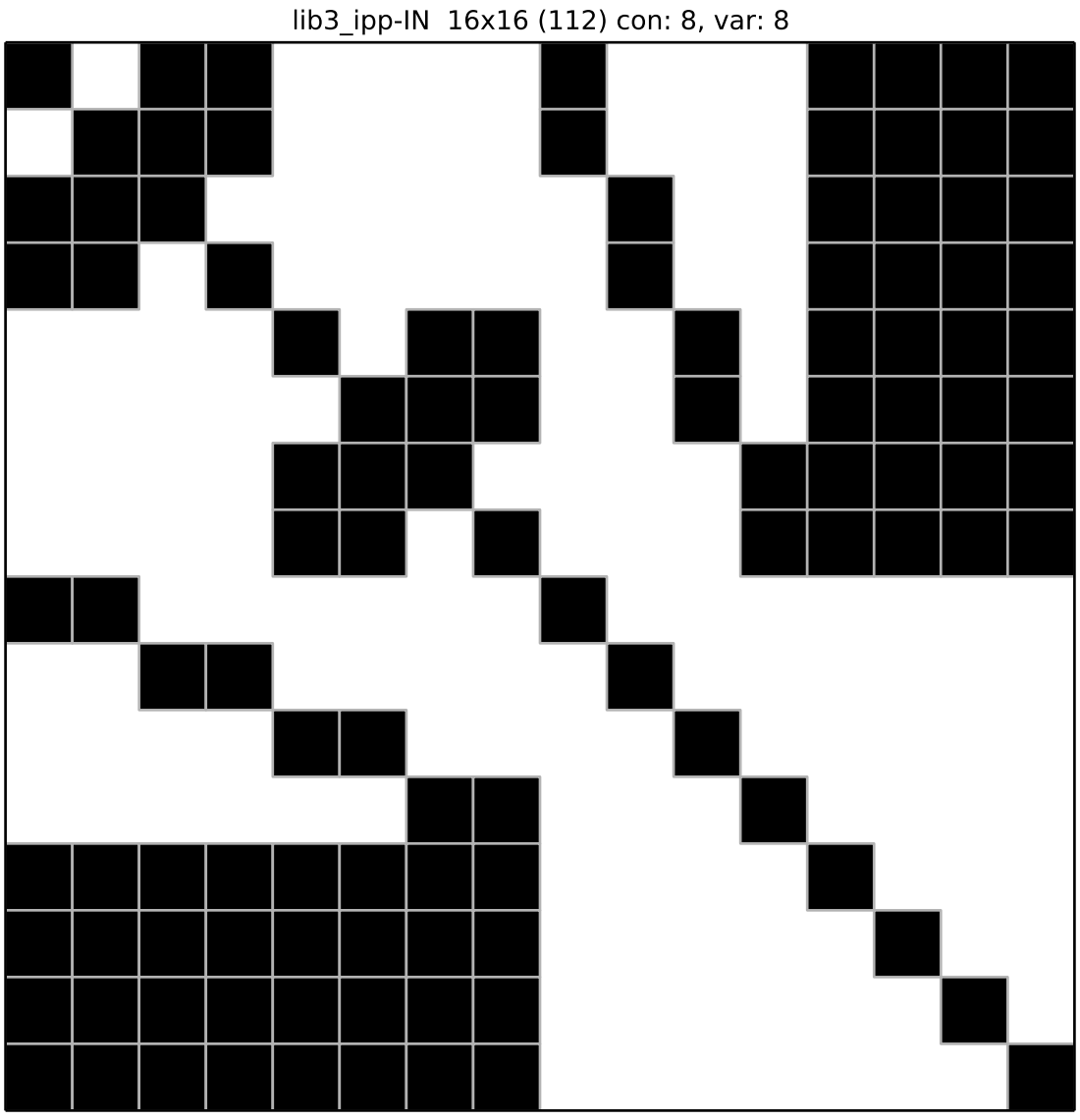
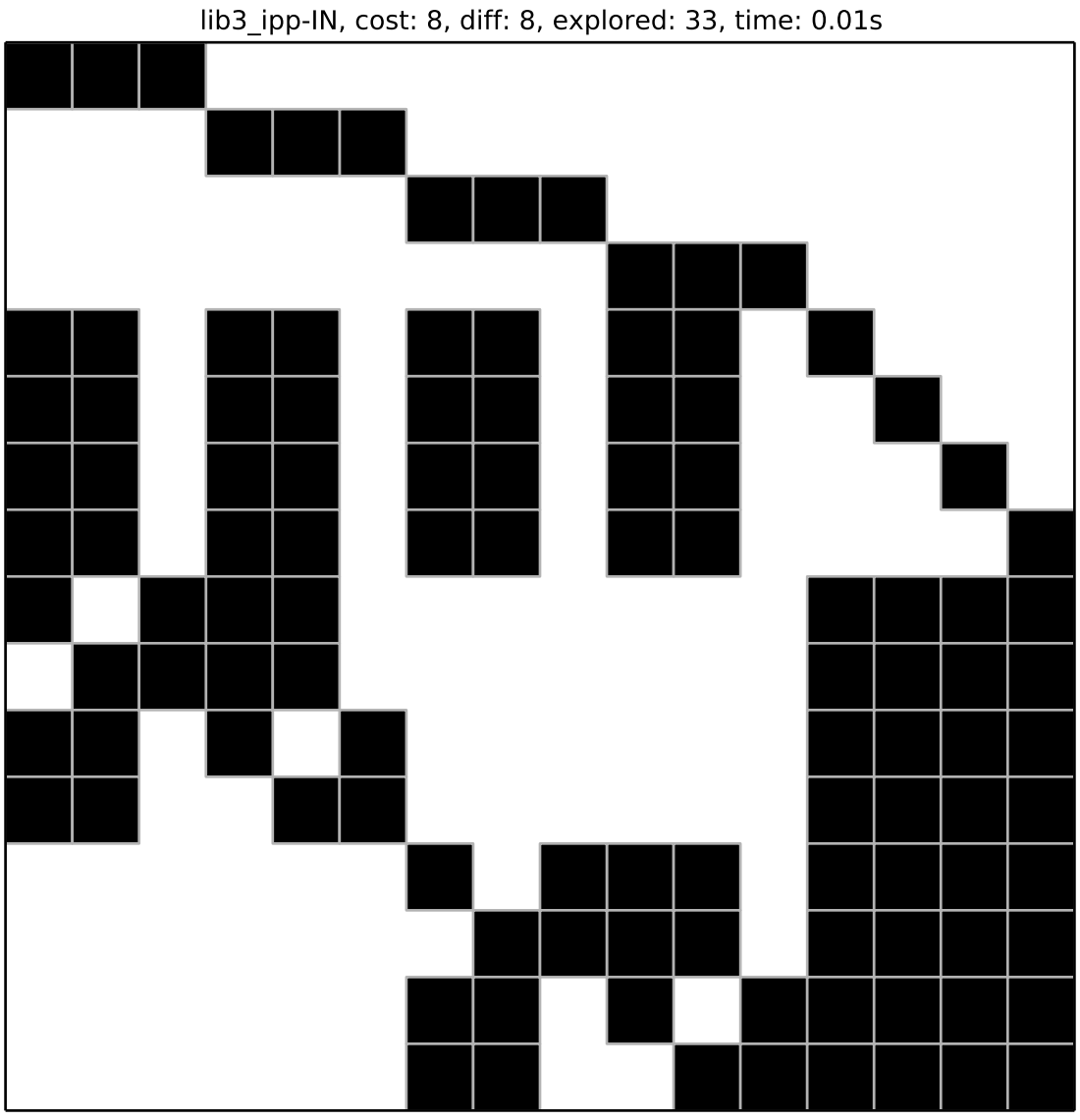
lib3_ipp-09 16x16 (112) con: 8, var: 8



lib3_ipp-09, cost: 8, diff: 8, explored: 33, time: 0.01s




lib3_ipp-IN 16x16 (112) con: 8, var: 8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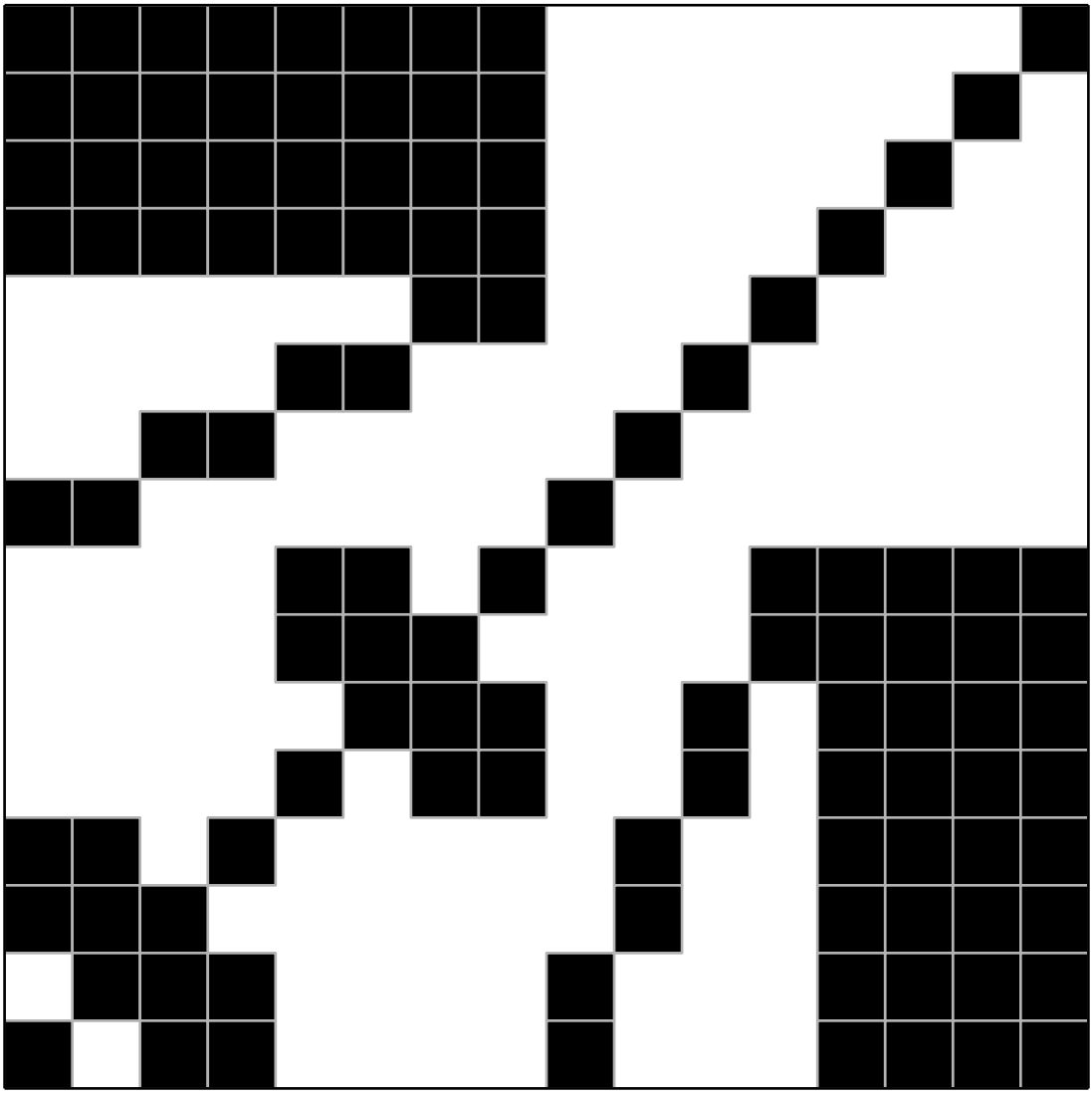
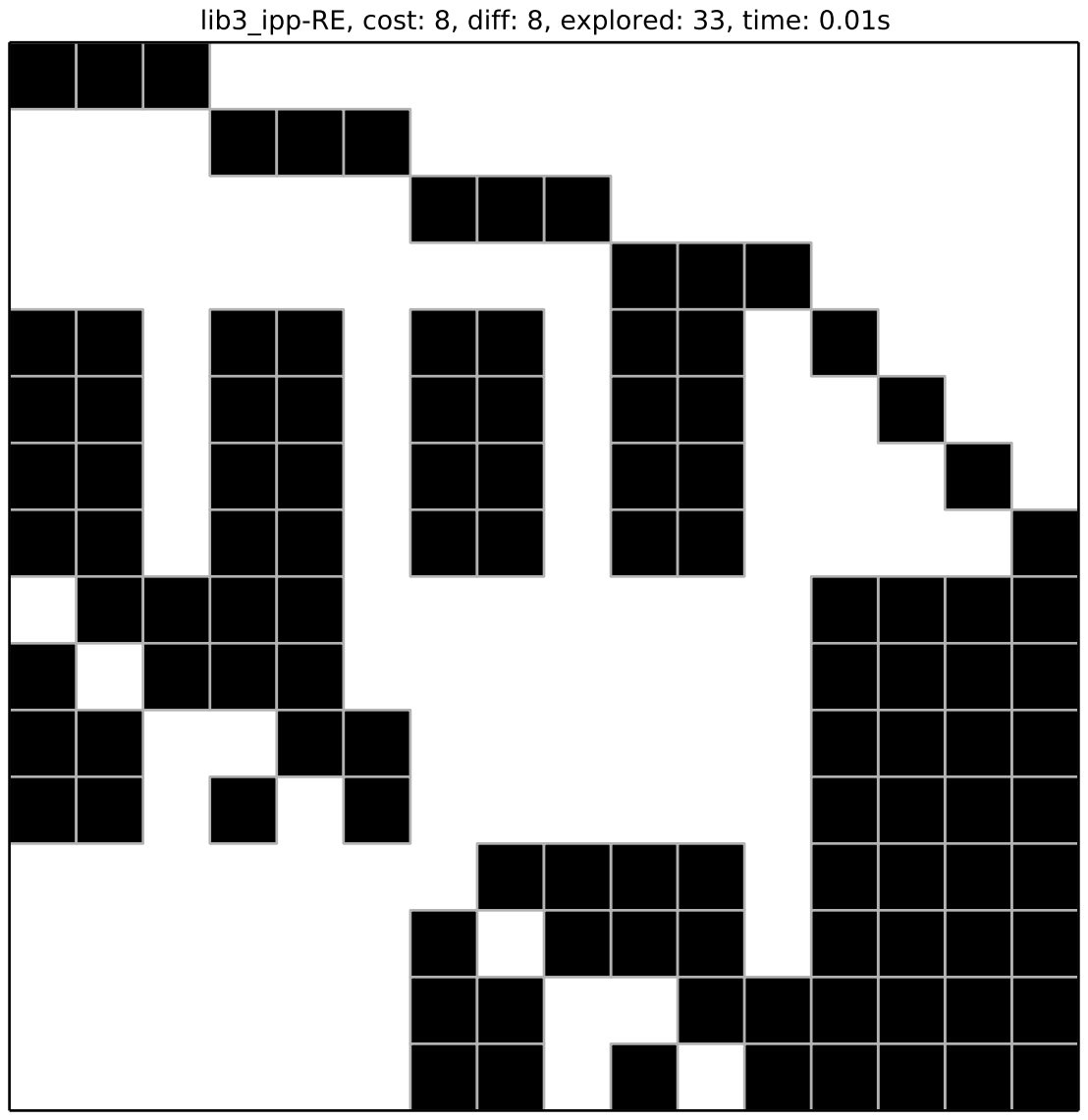
lib3_ipp-RE 16x16 (112) con: 8, var: 8

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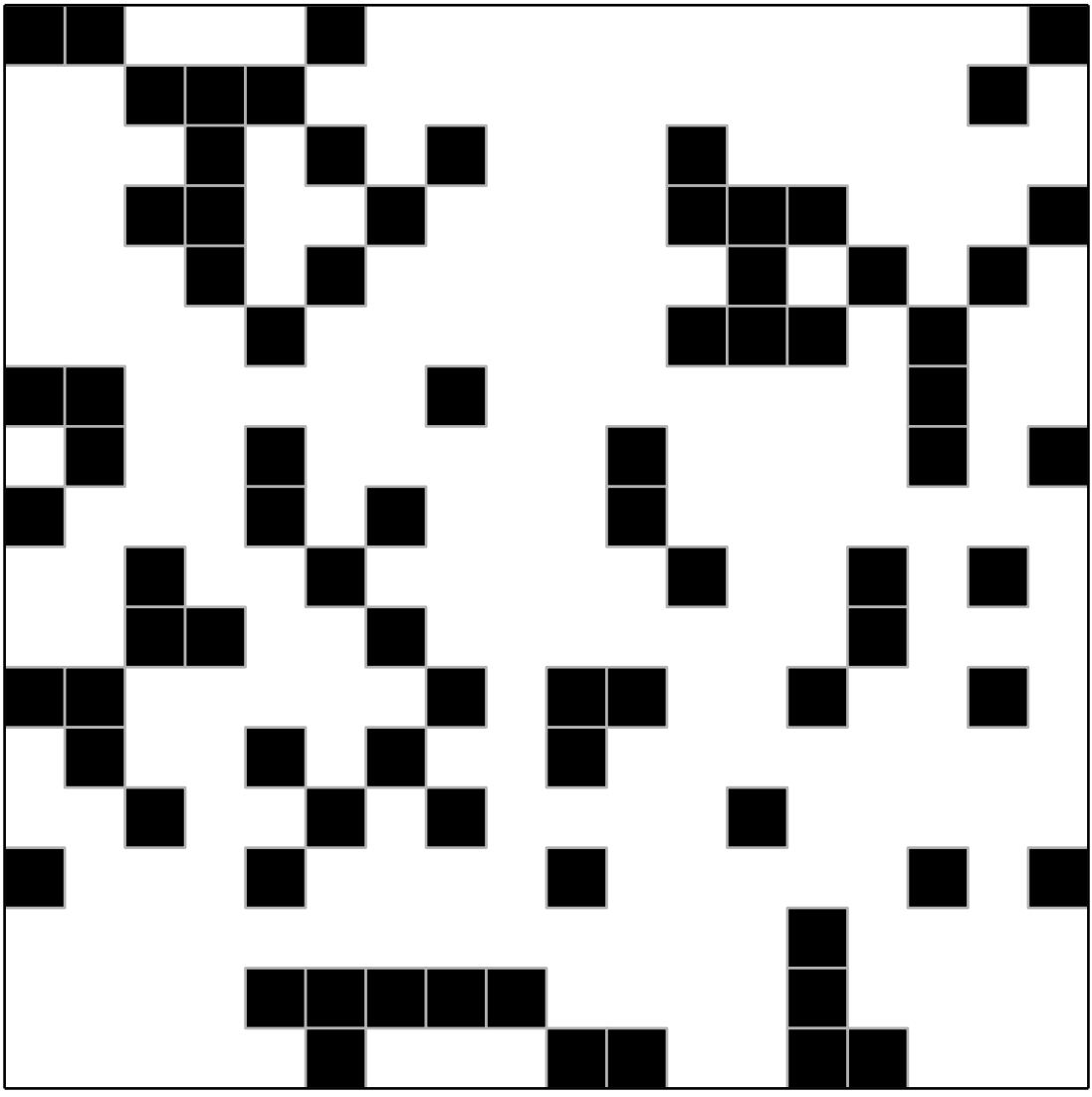
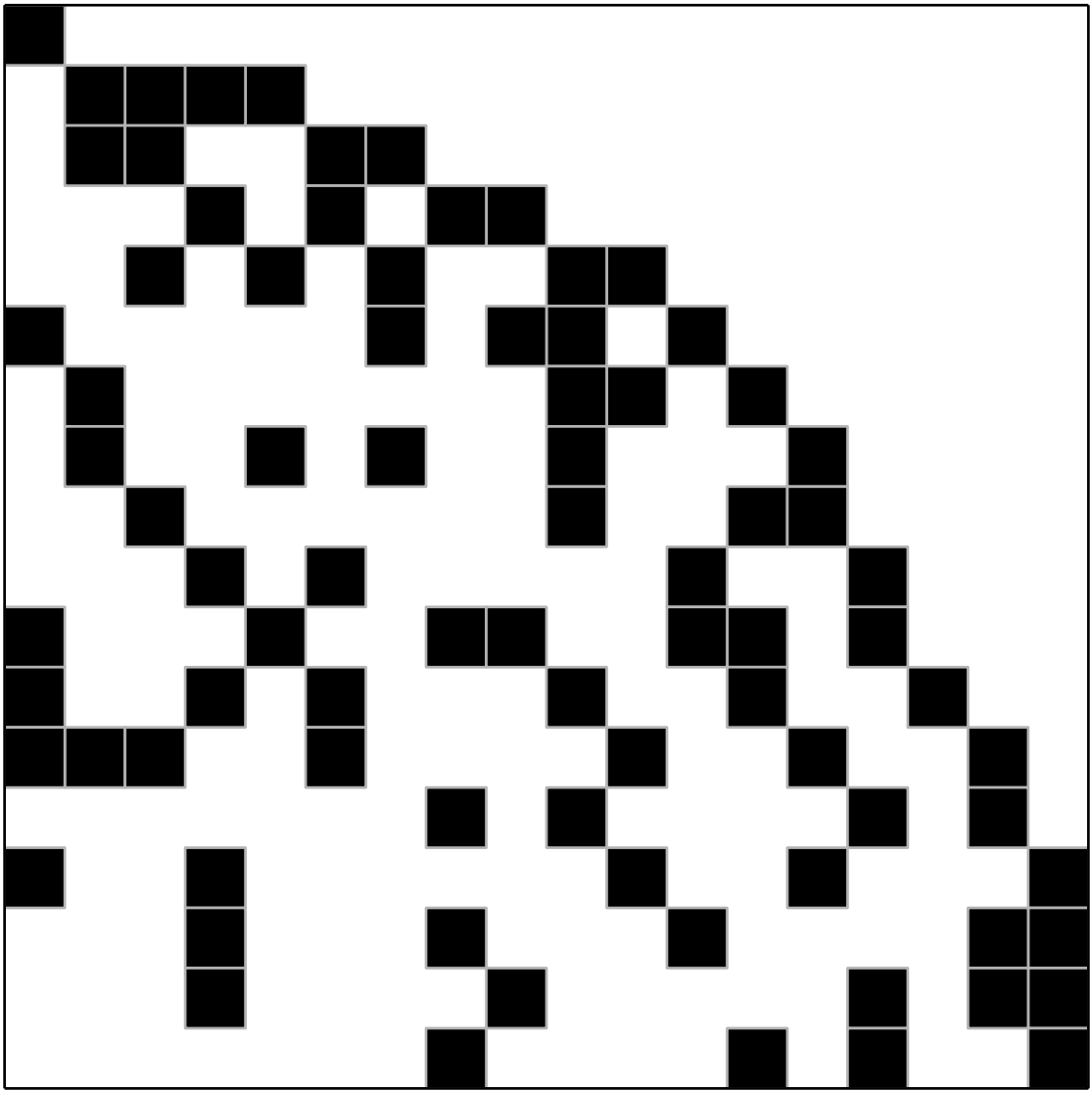
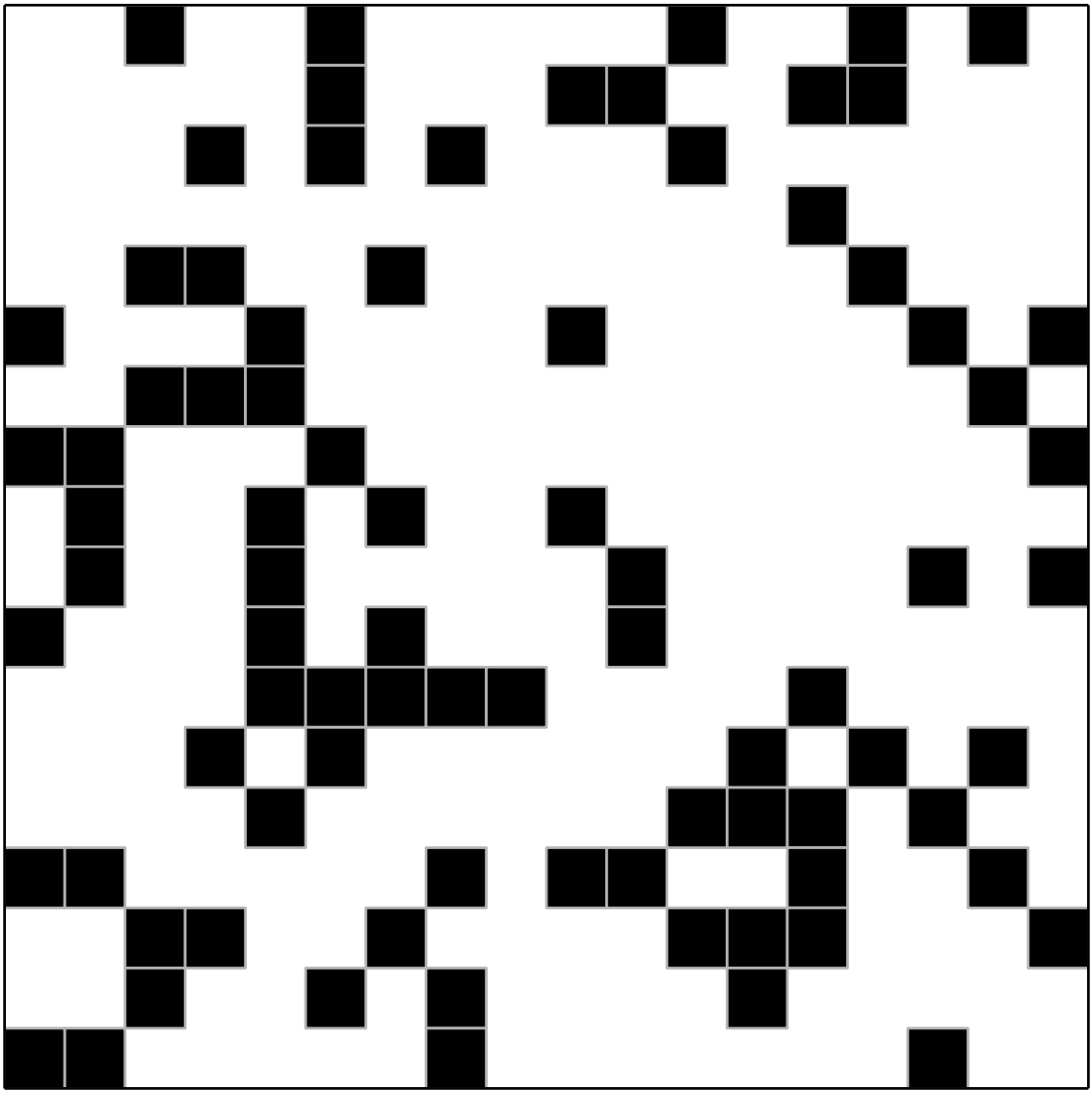
lib3_kapur-00 18x18 (83) con: 9, var: 9

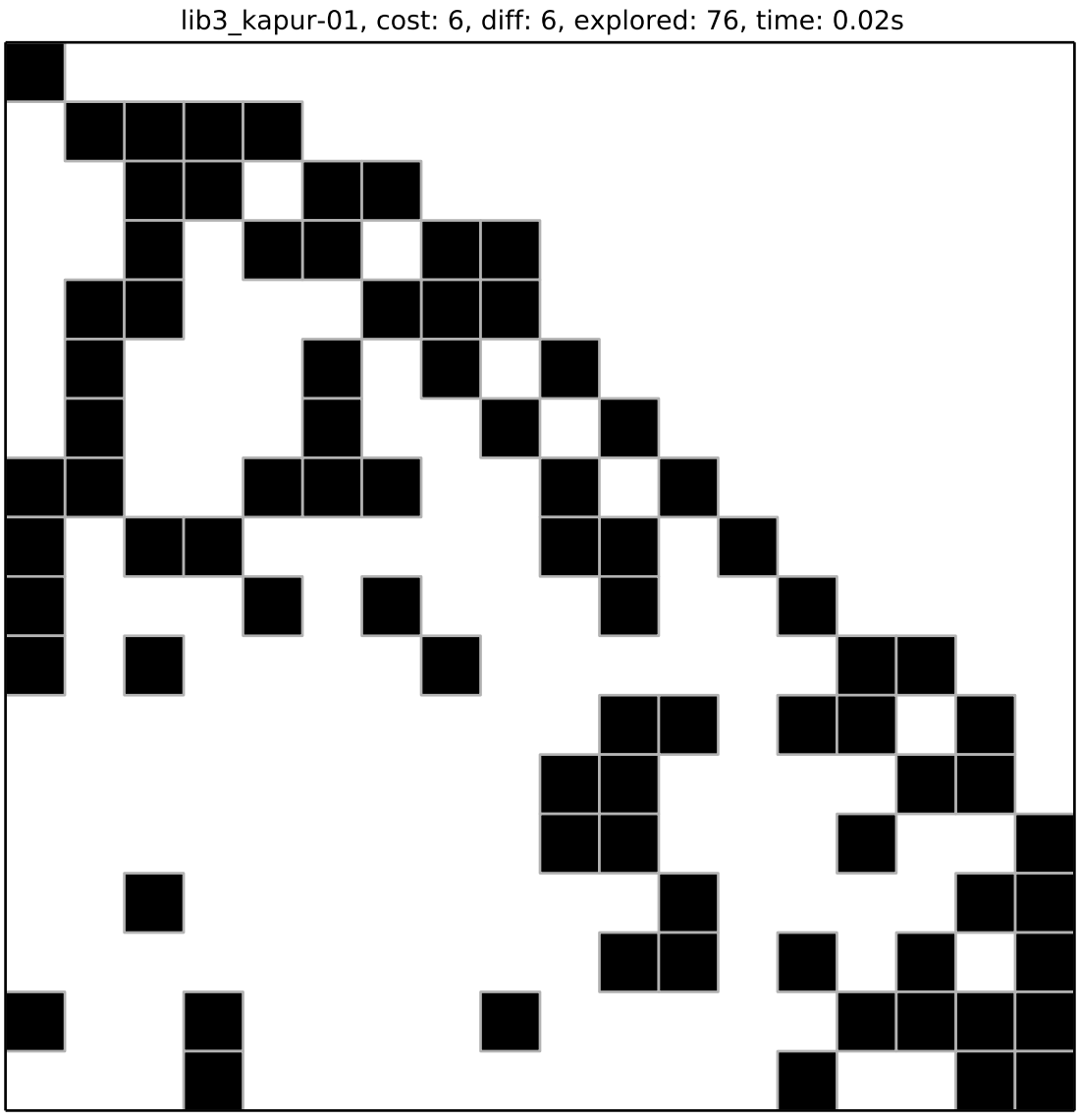


lib3_kapur-00, cost: 6, diff: 6, explored: 77, time: 0.02s

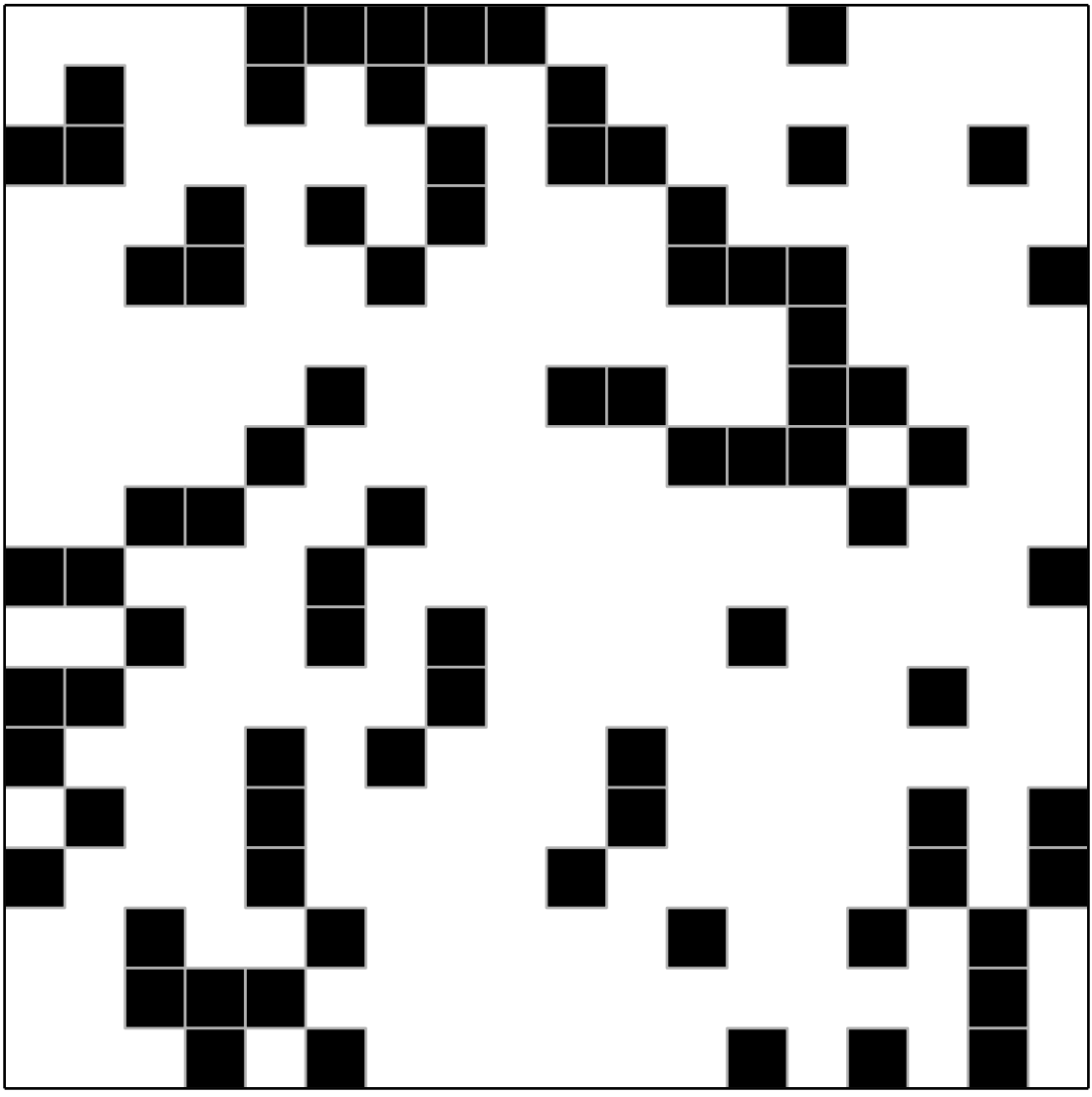


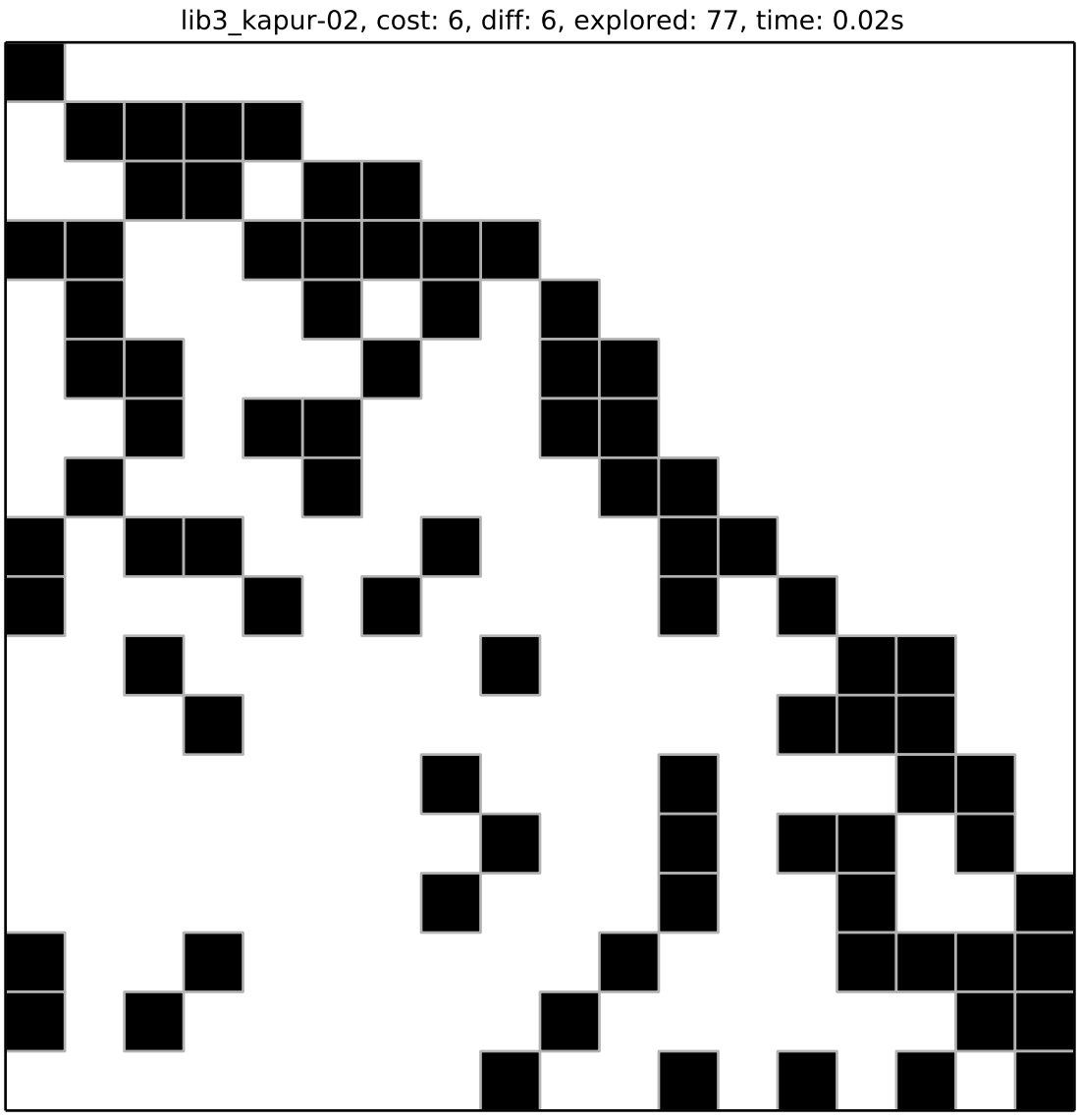
lib3_kapur-01 18x18 (83) con: 9, var: 9



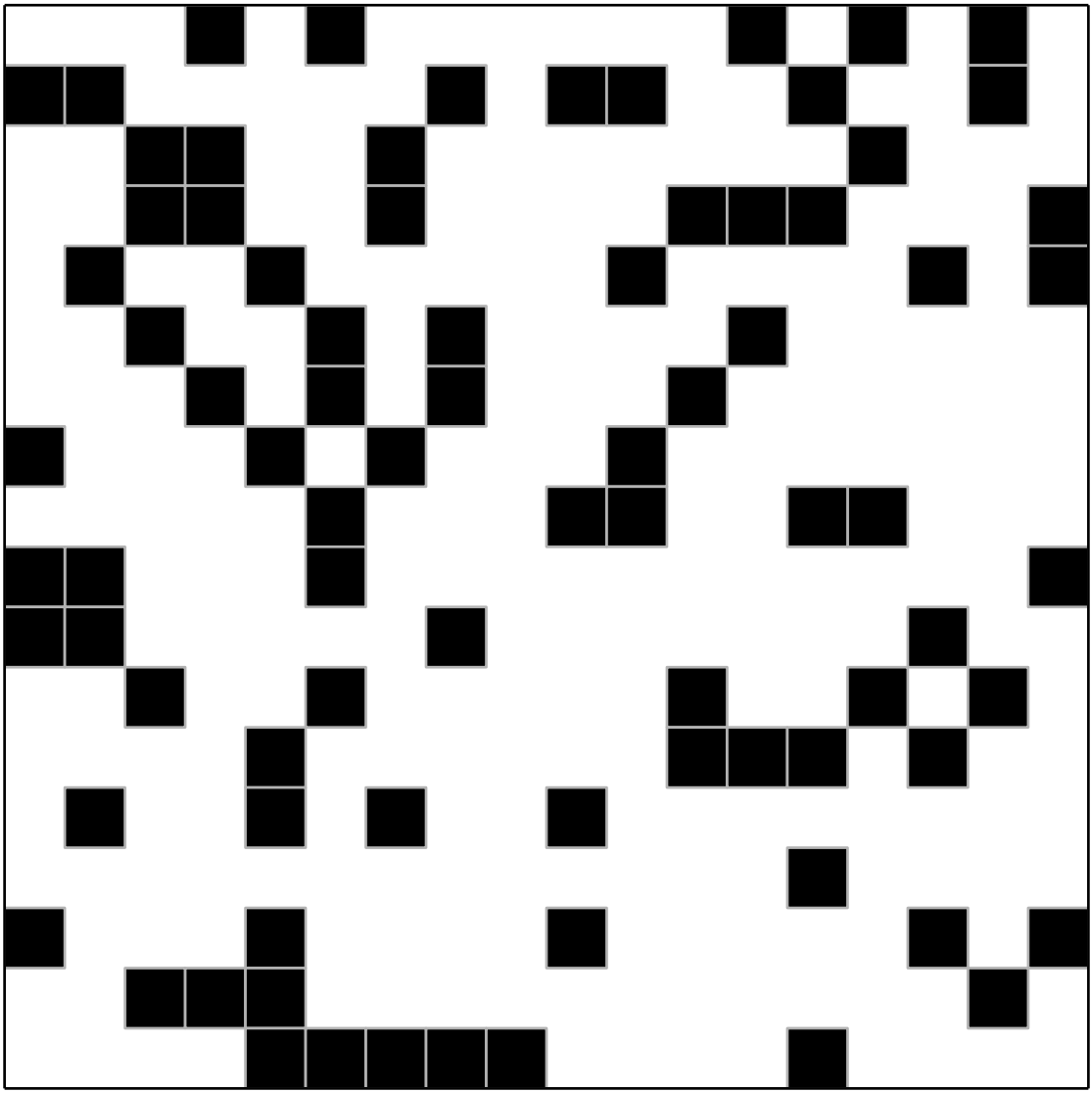

lib3_kapur-01, cost: 6, diff: 6, explored: 76, time: 0.02s

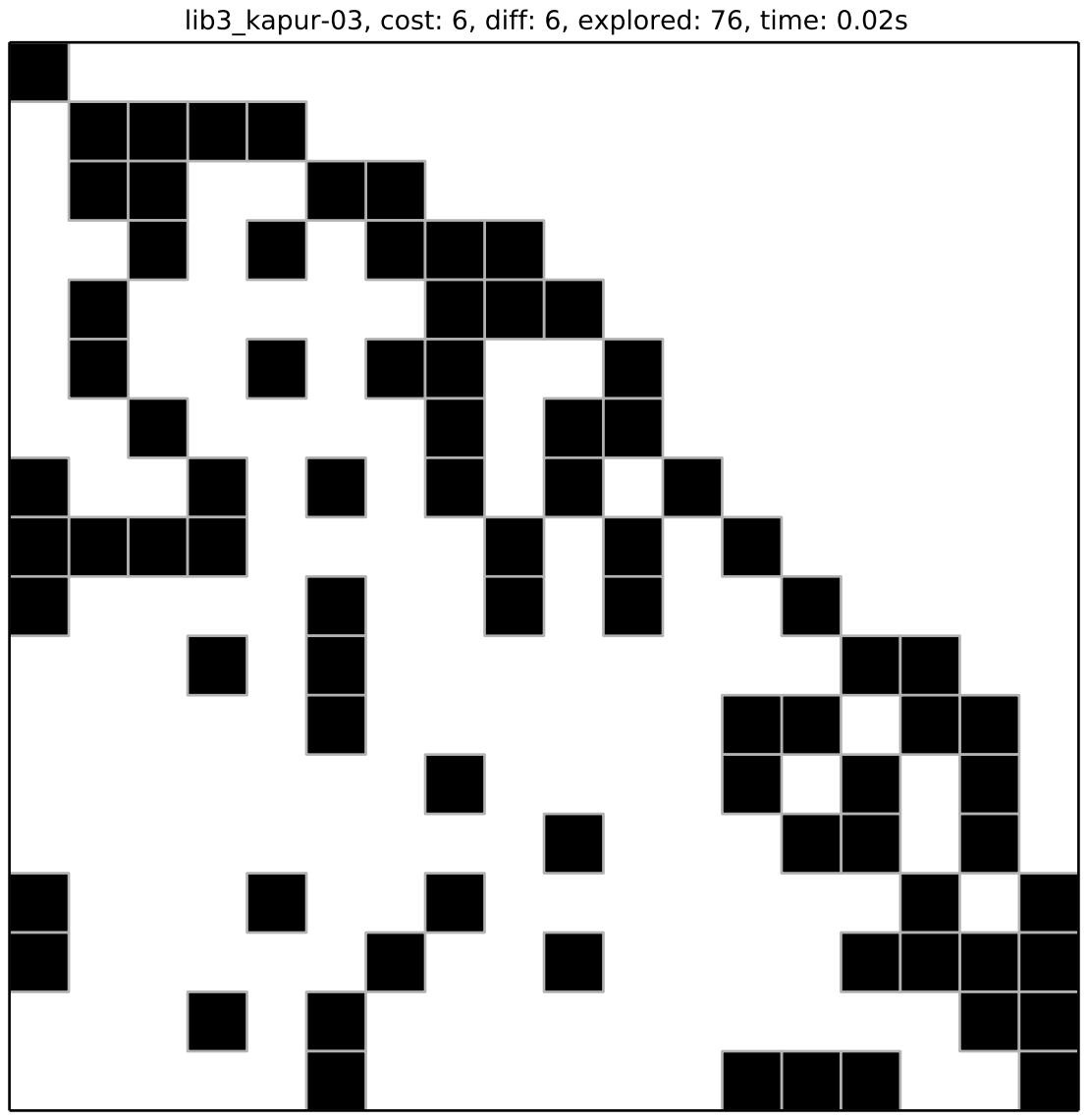
lib3_kapur-02 18x18 (83) con: 9, var: 9



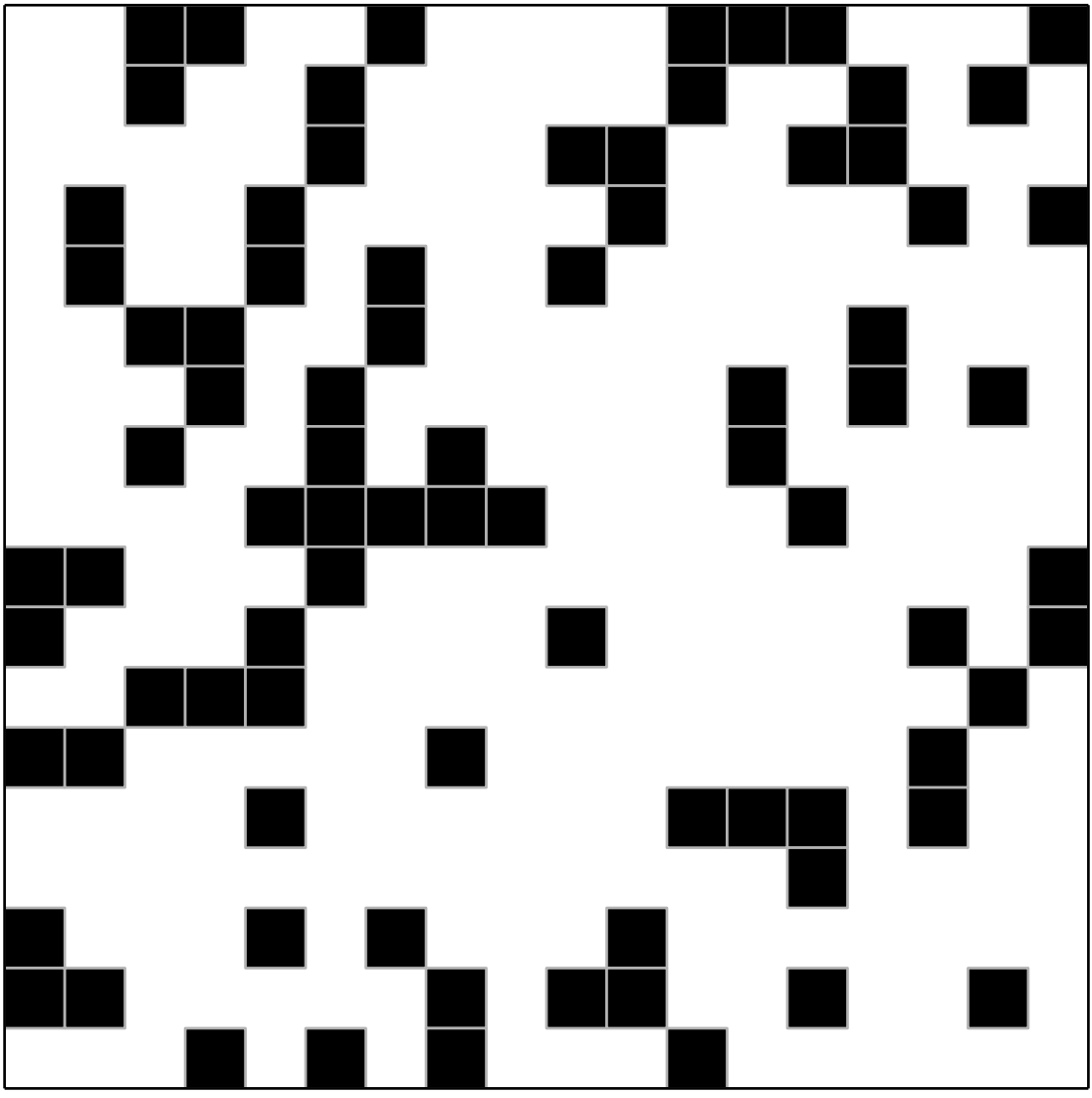

lib3_kapur-02, cost: 6, diff: 6, explored: 77, time: 0.02s

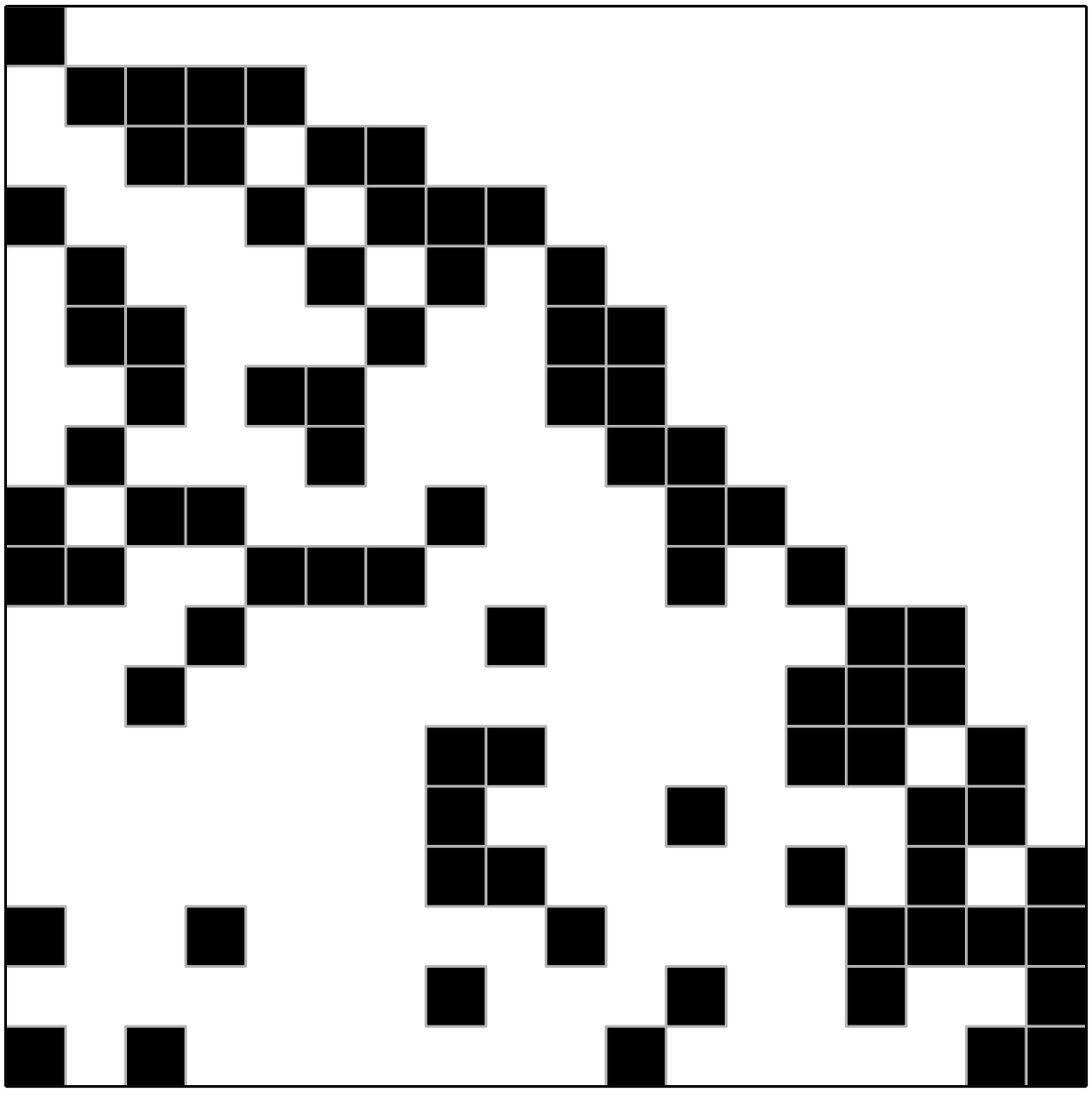
lib3_kapur-03 18x18 (83) con: 9, var: 9



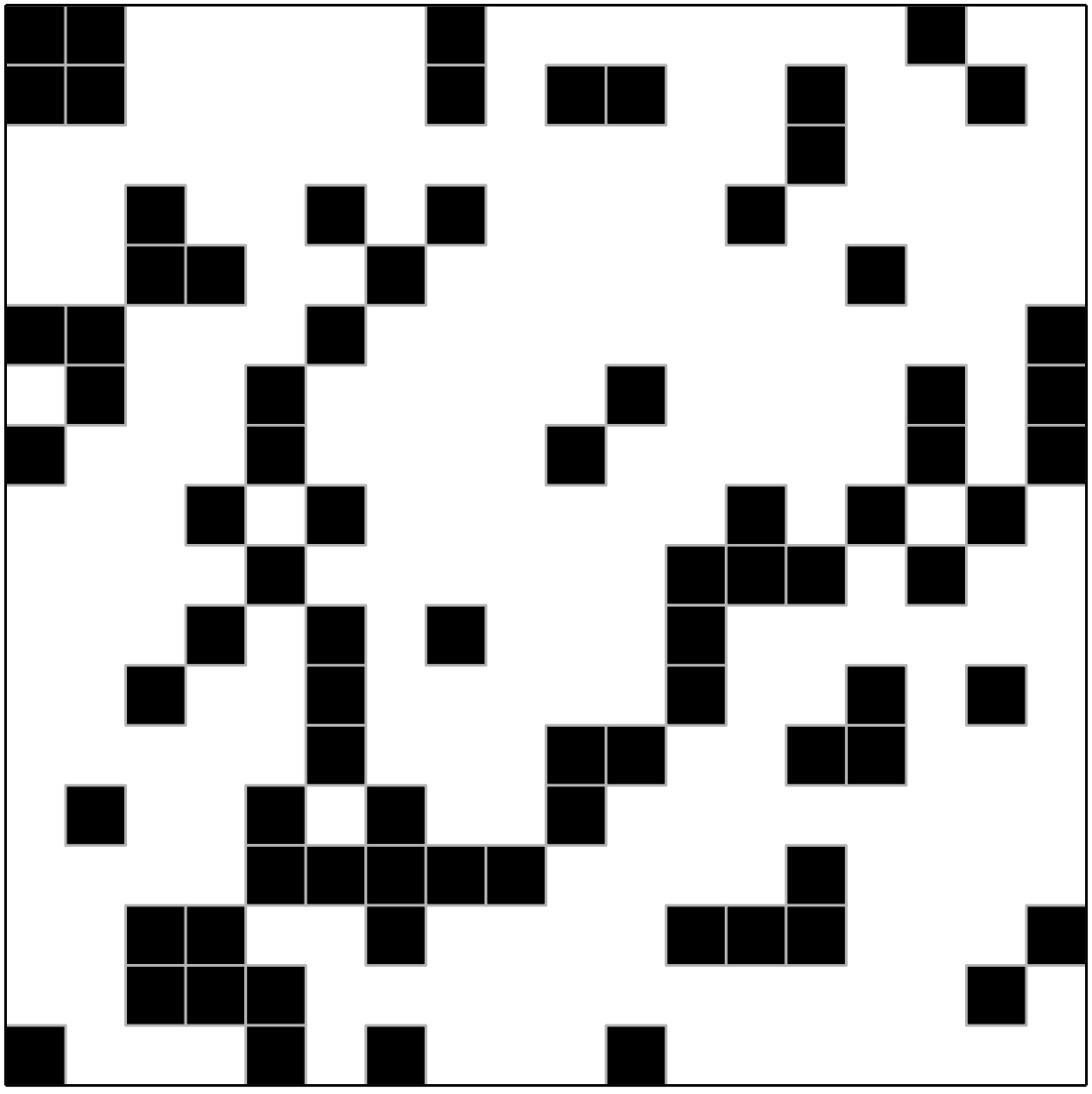

lib3_kapur-03, cost: 6, diff: 6, explored: 76, time: 0.02s

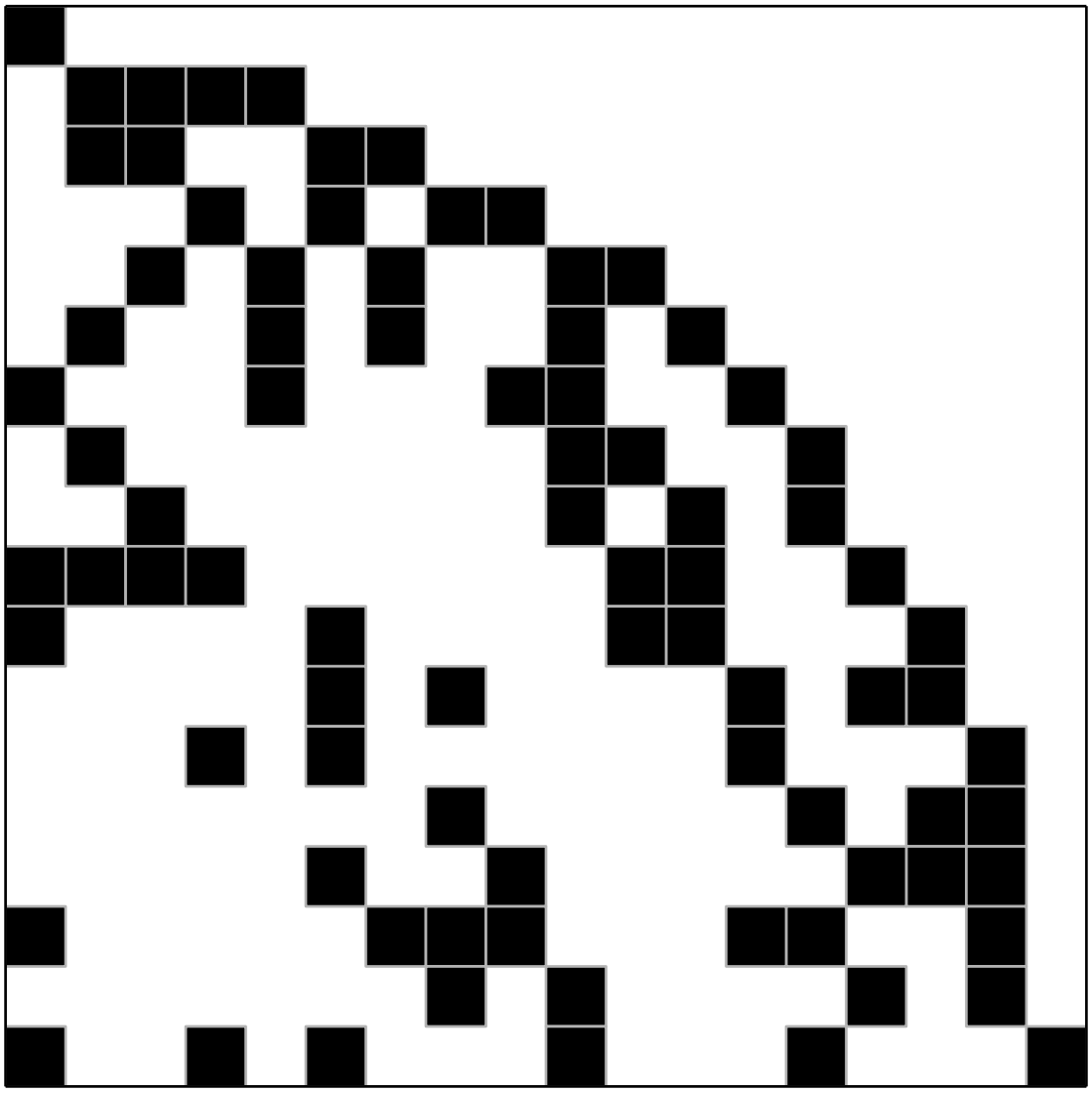
lib3_kapur-04 18x18 (83) con: 9, var: 9



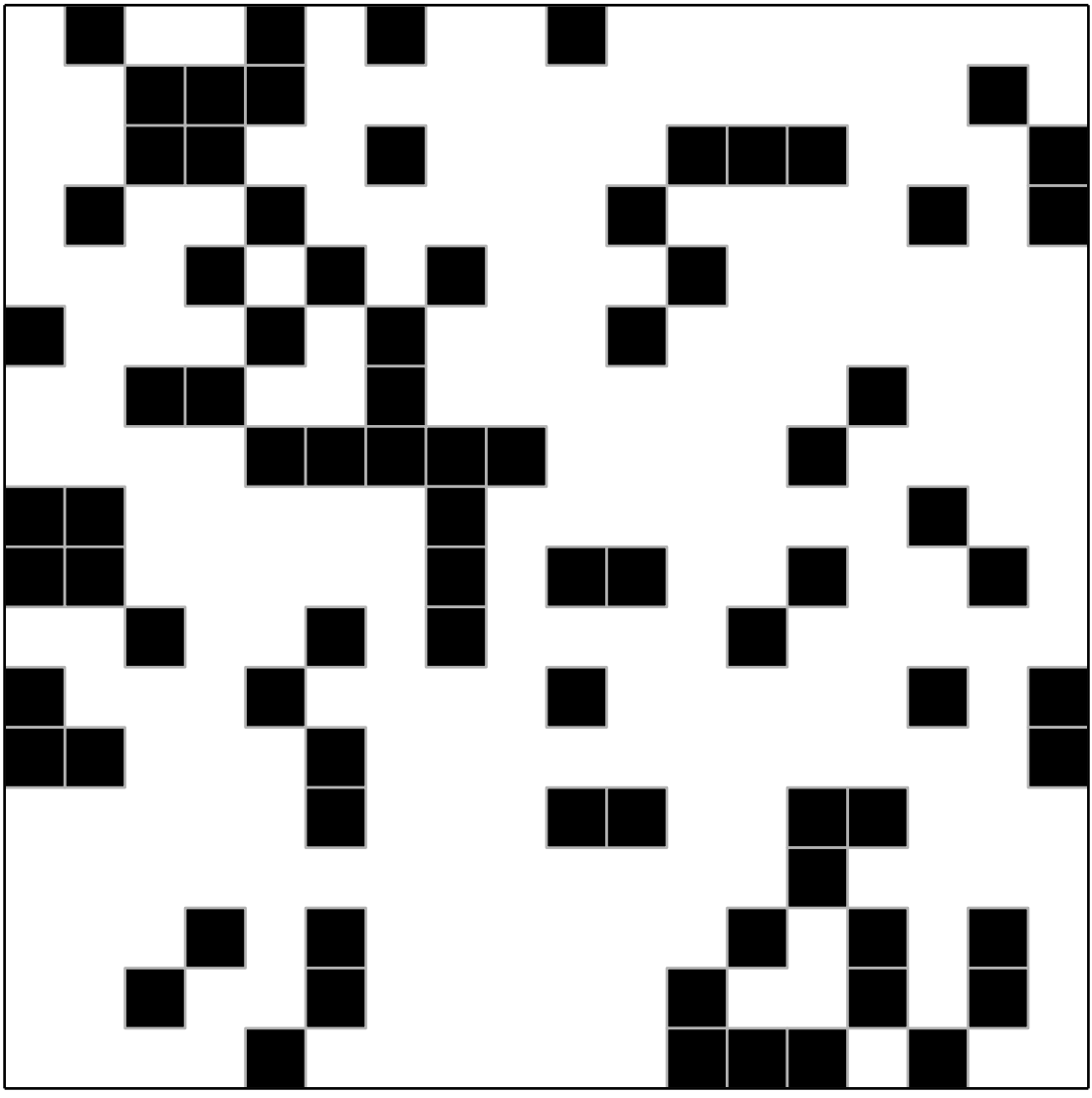

lib3_kapur-04, cost: 6, diff: 6, explored: 75, time: 0.02s

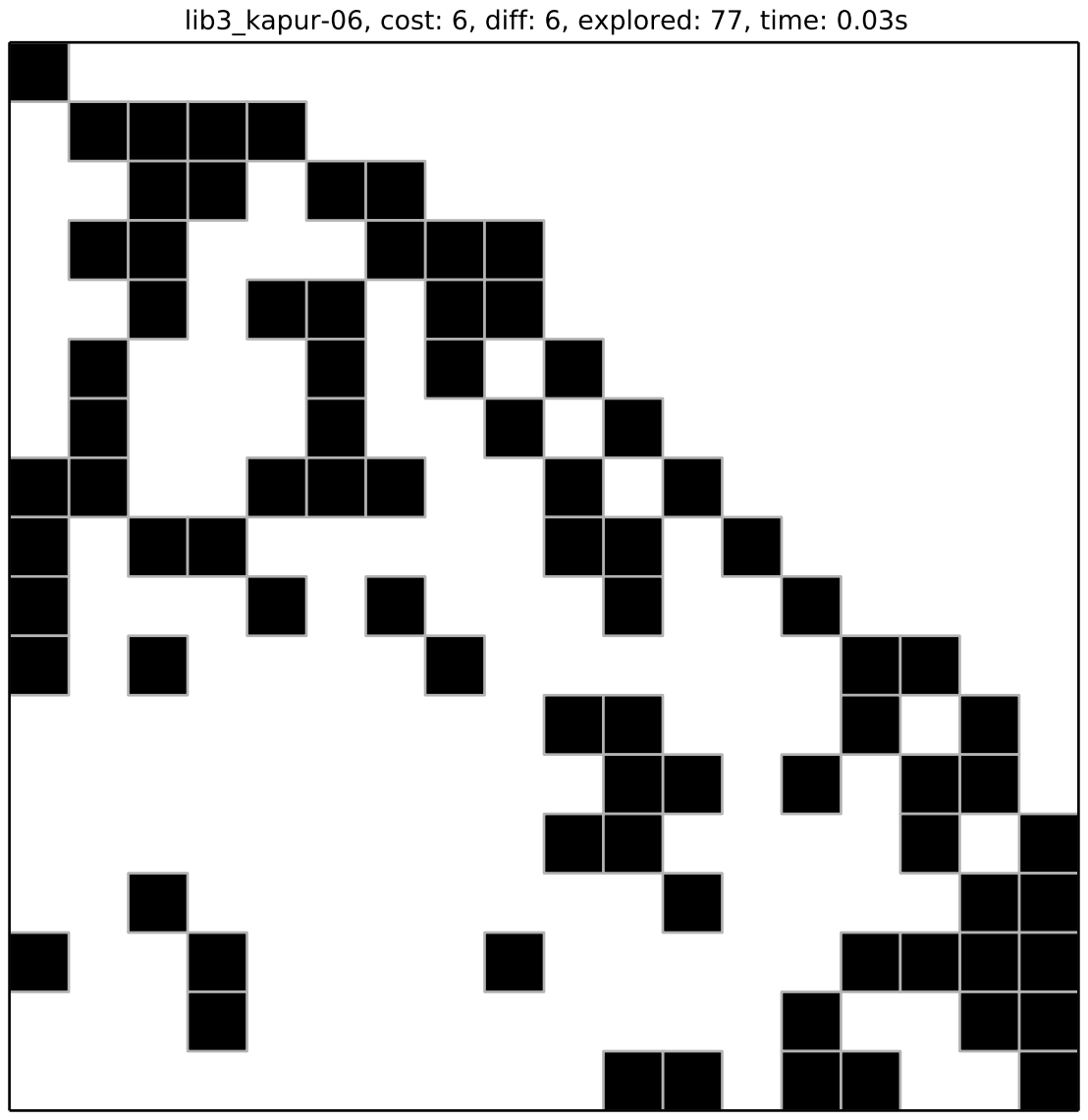
lib3_kapur-05 18x18 (83) con: 9, var: 9



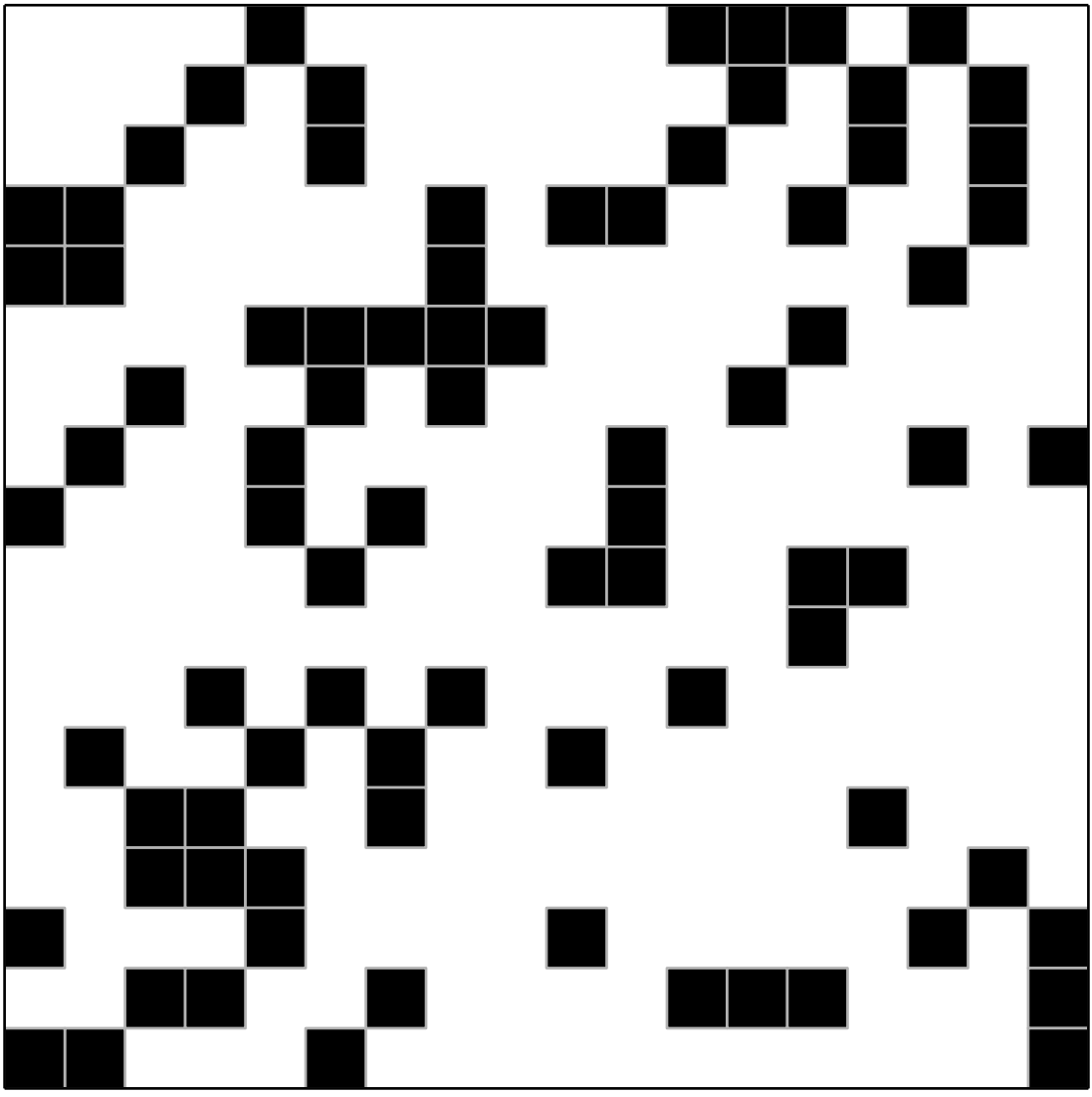

lib3_kapur-05, cost: 6, diff: 6, explored: 76, time: 0.02s

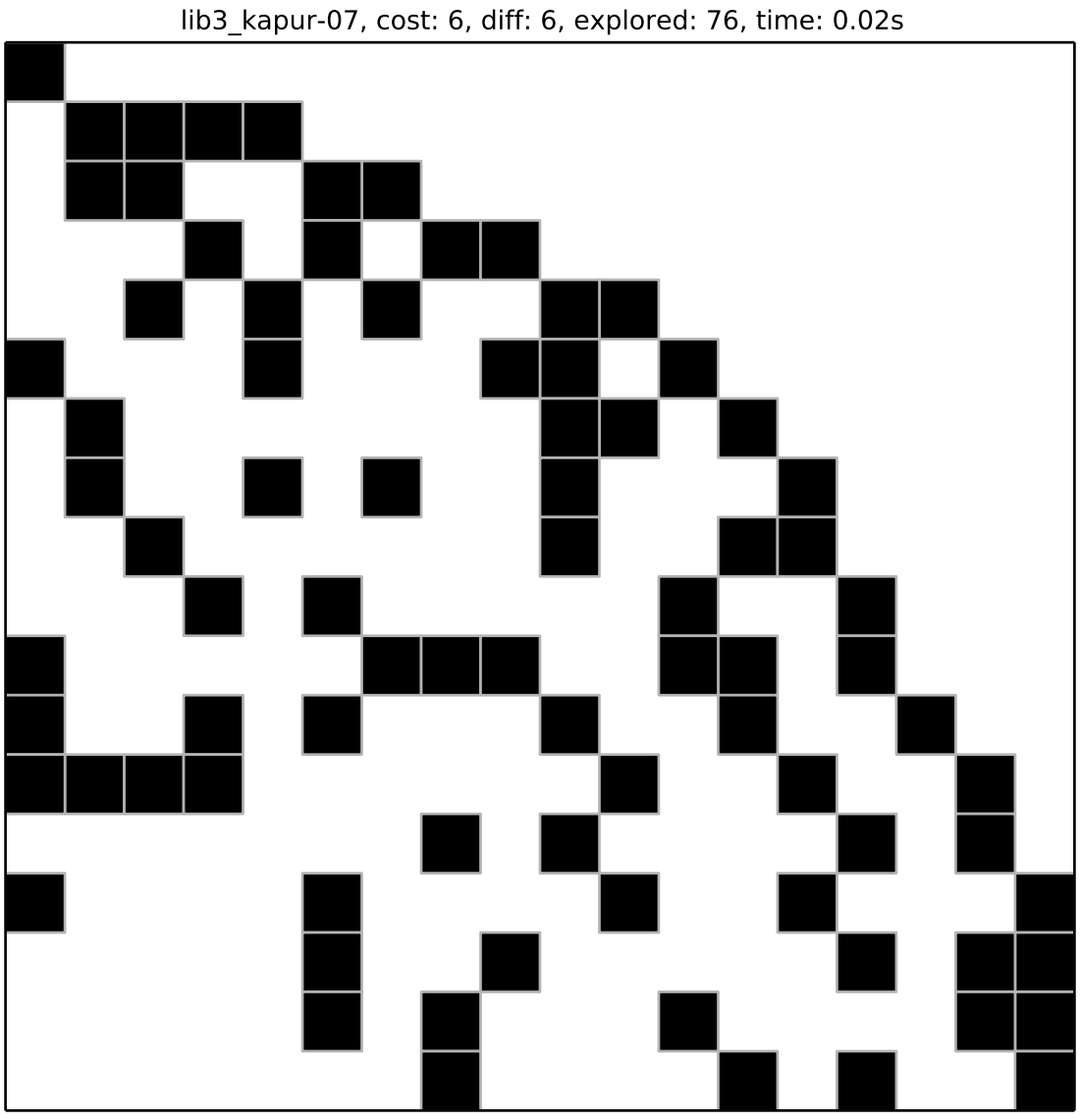
lib3_kapur-06 18x18 (83) con: 9, var: 9




lib3_kapur-06, cost: 6, diff: 6, explored: 77, time: 0.03s

lib3_kapur-07 18x18 (83) con: 9, var: 9

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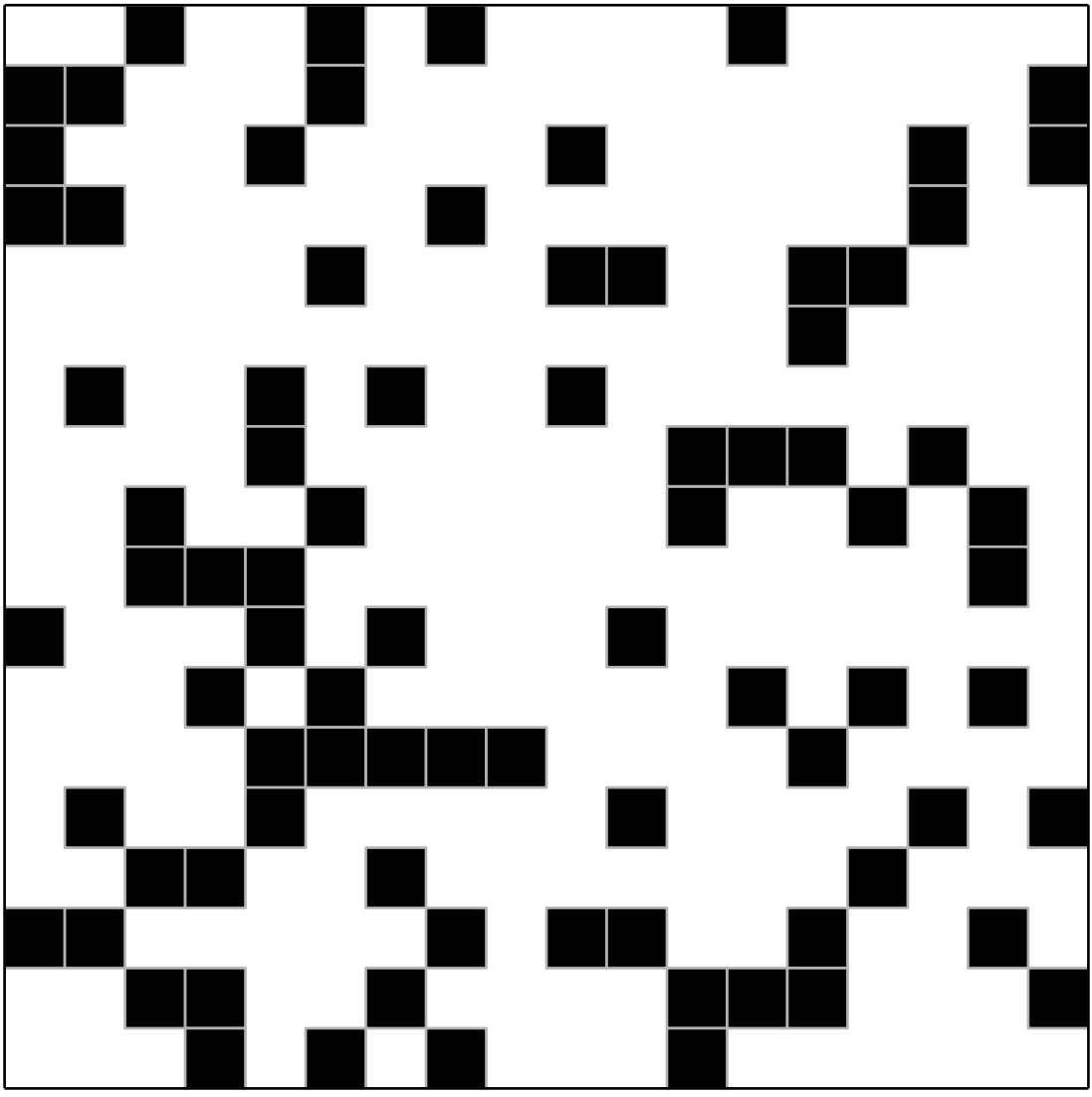
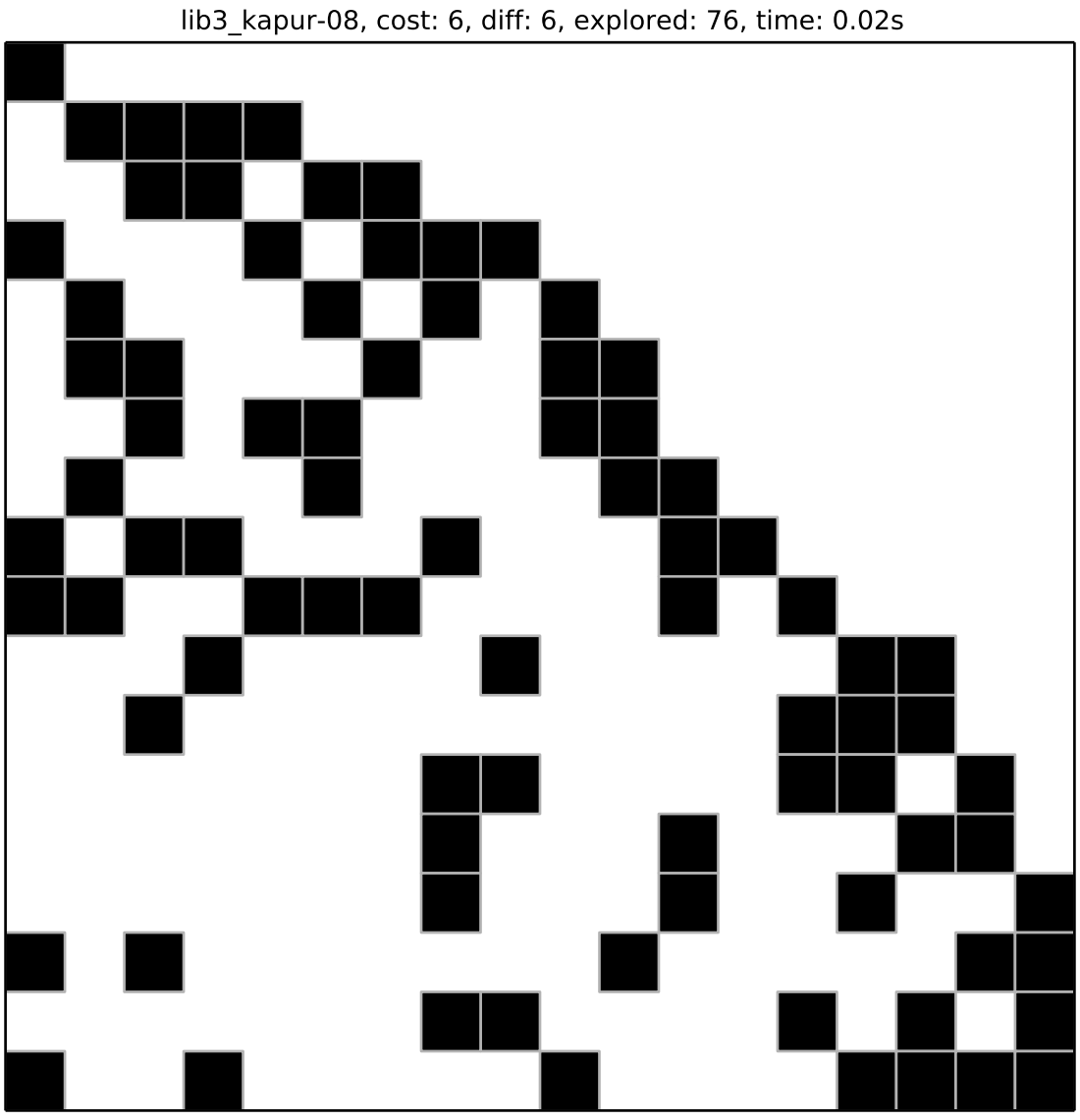
lib3_kapur-08 18x18 (83) con: 9, var: 9

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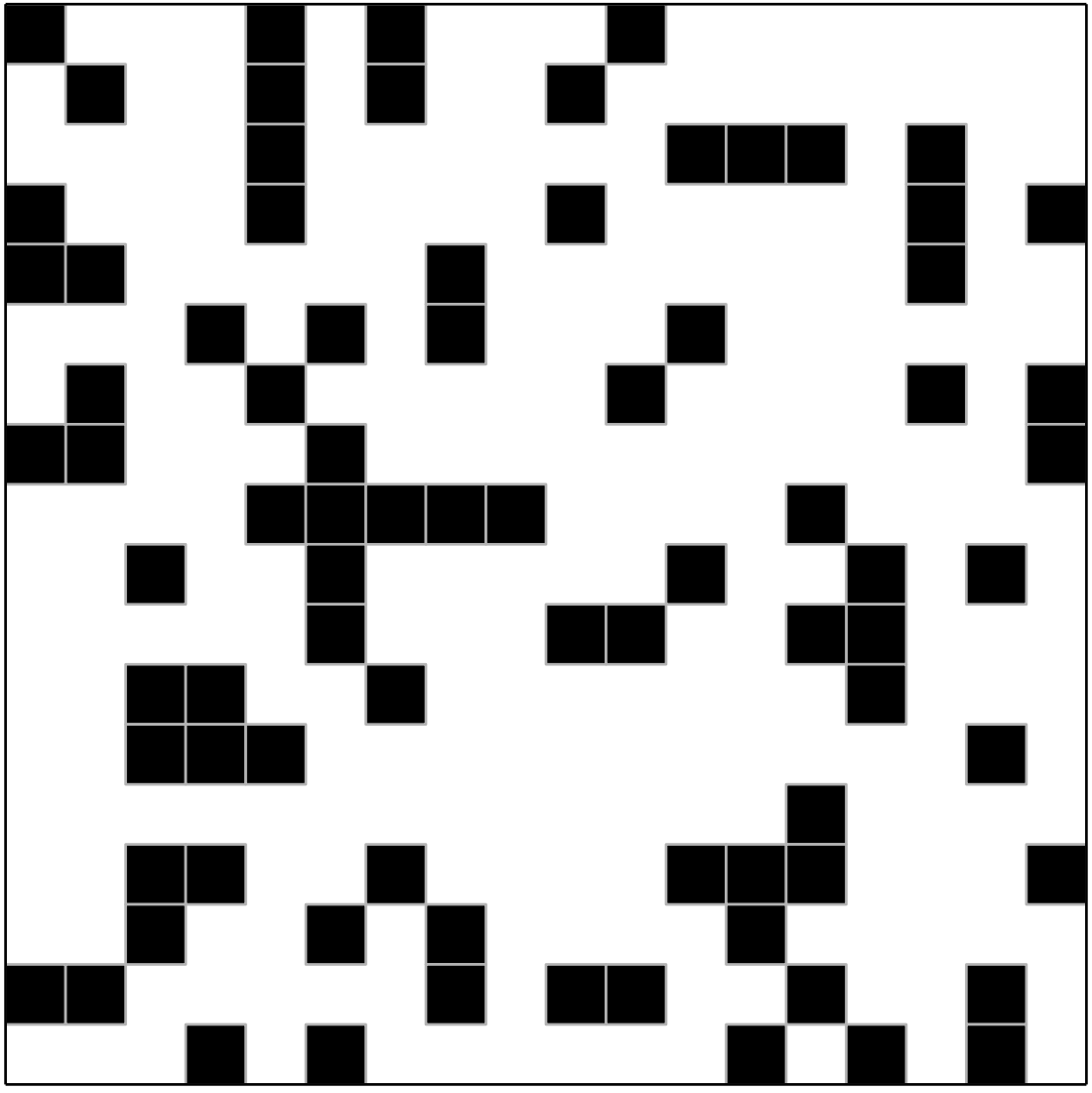
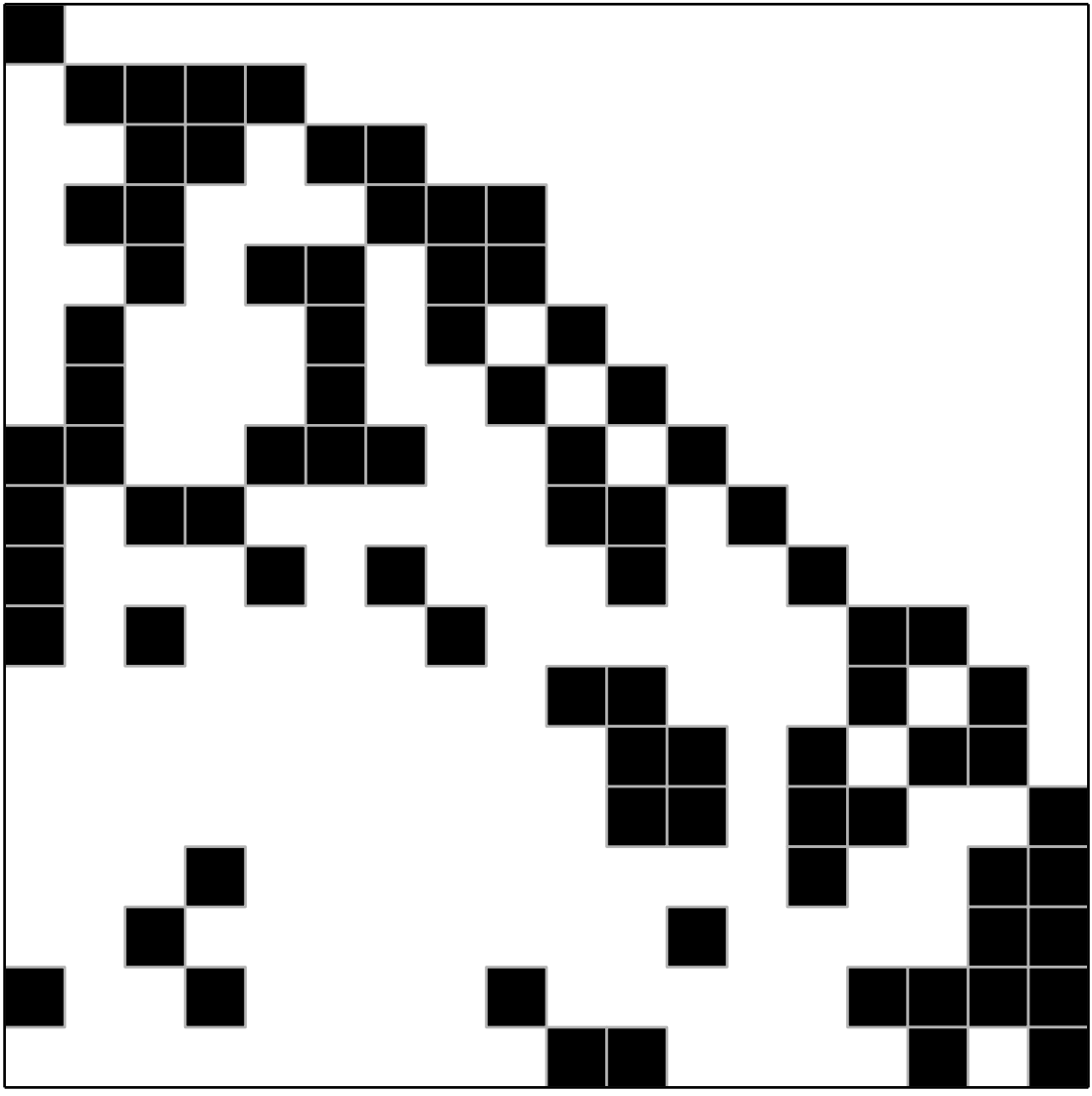
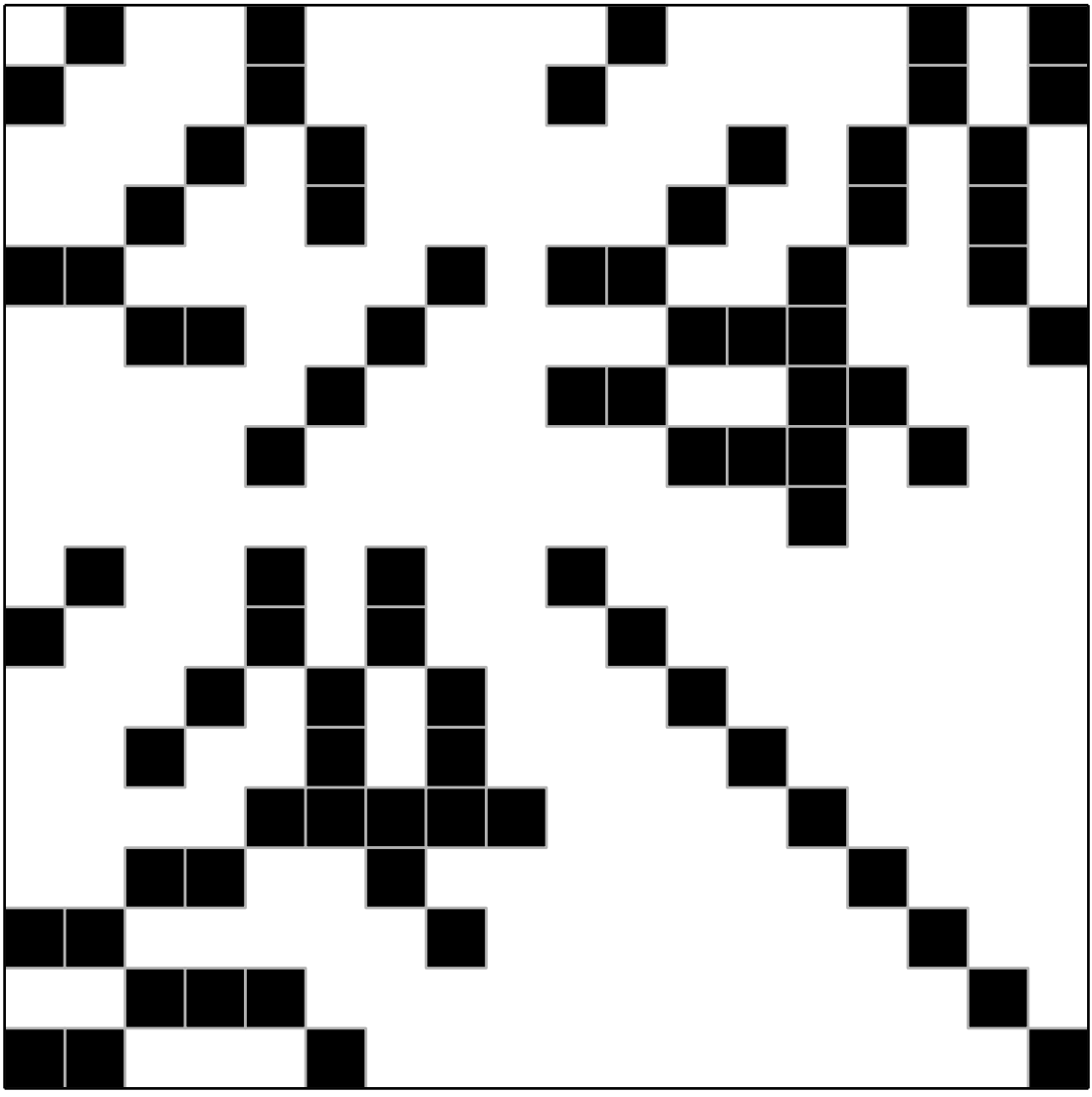
lib3_kapur-09 18x18 (83) con: 9, var: 9

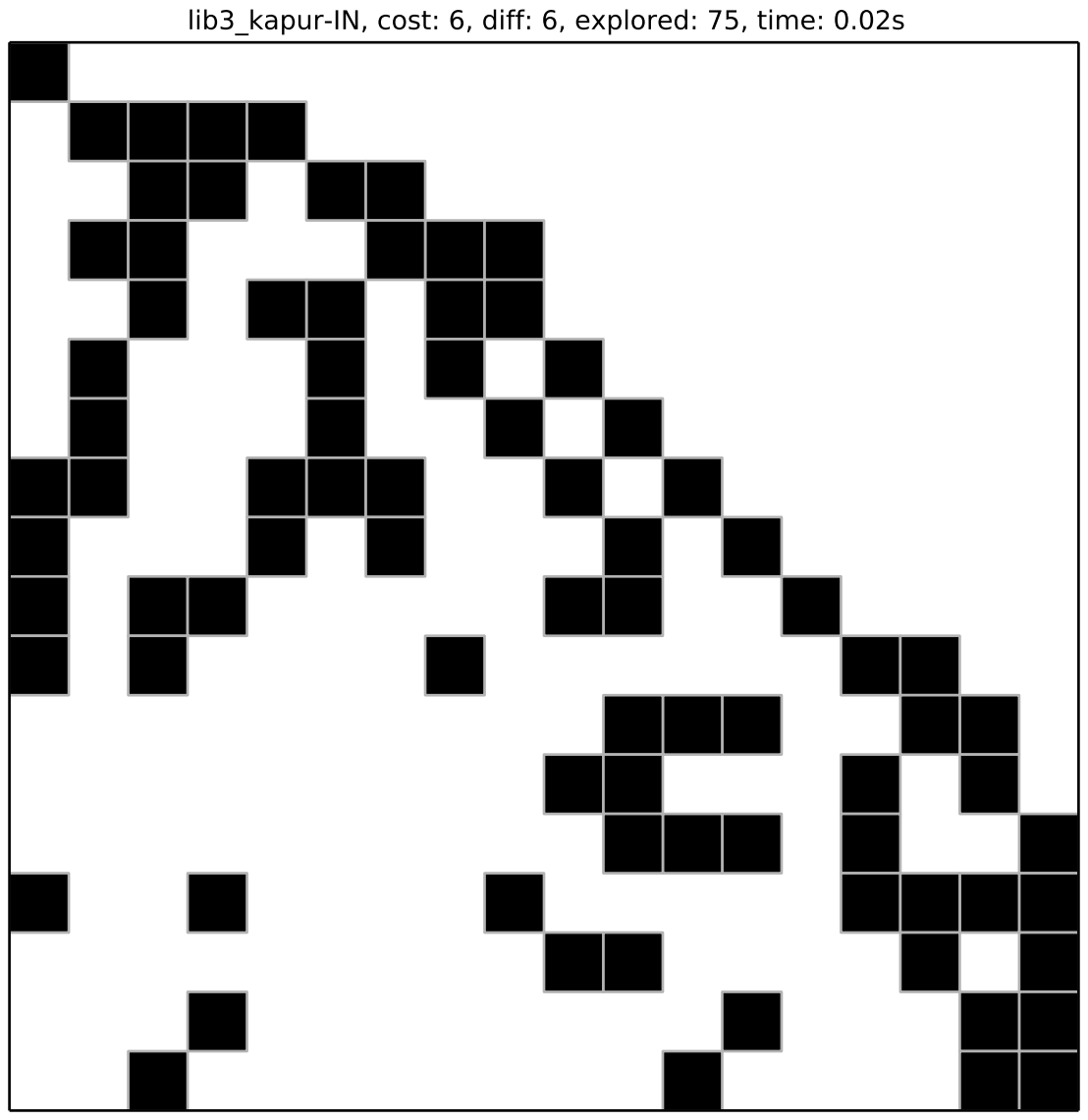


lib3_kapur-09, cost: 6, diff: 6, explored: 76, time: 0.02s

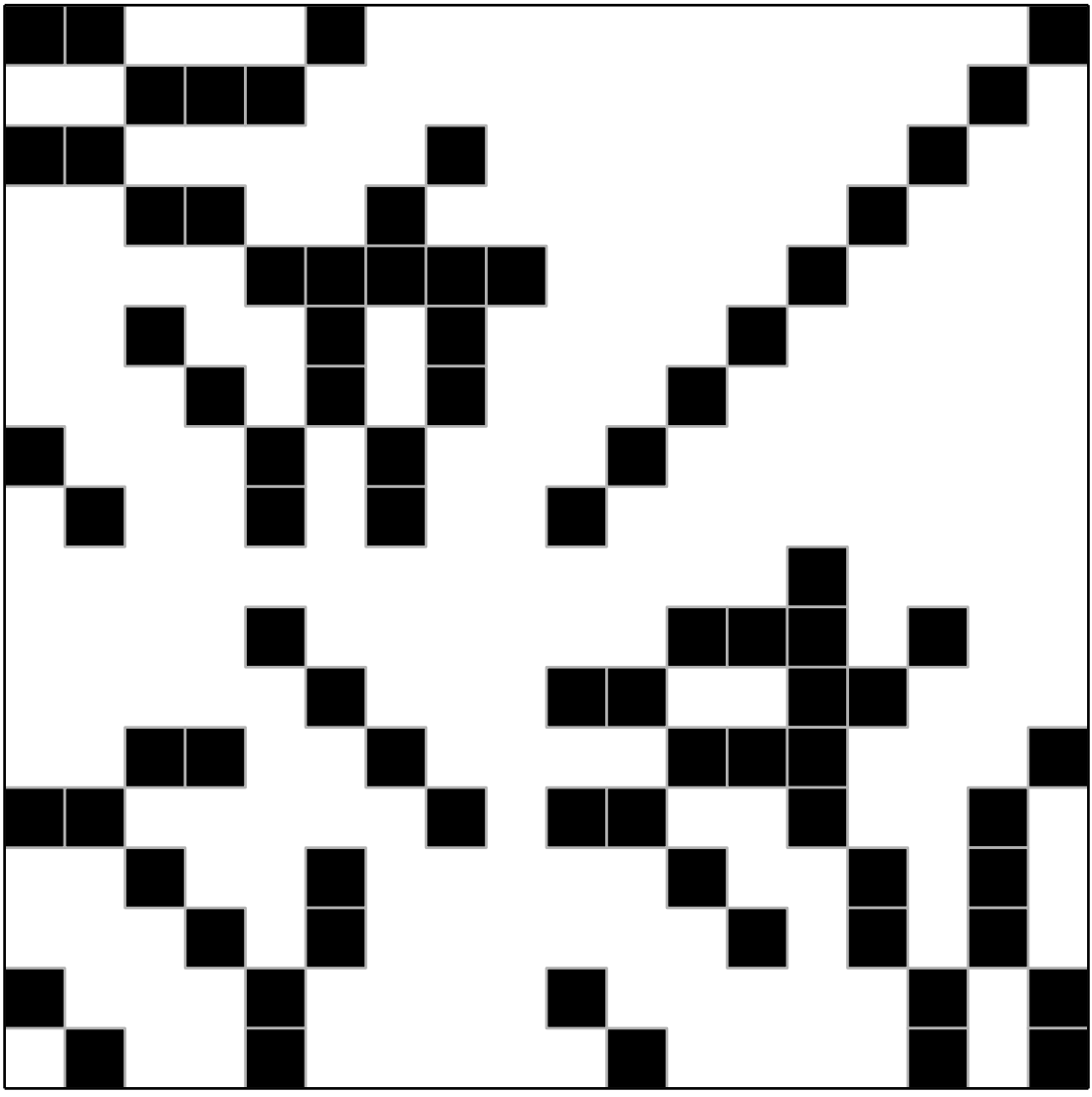


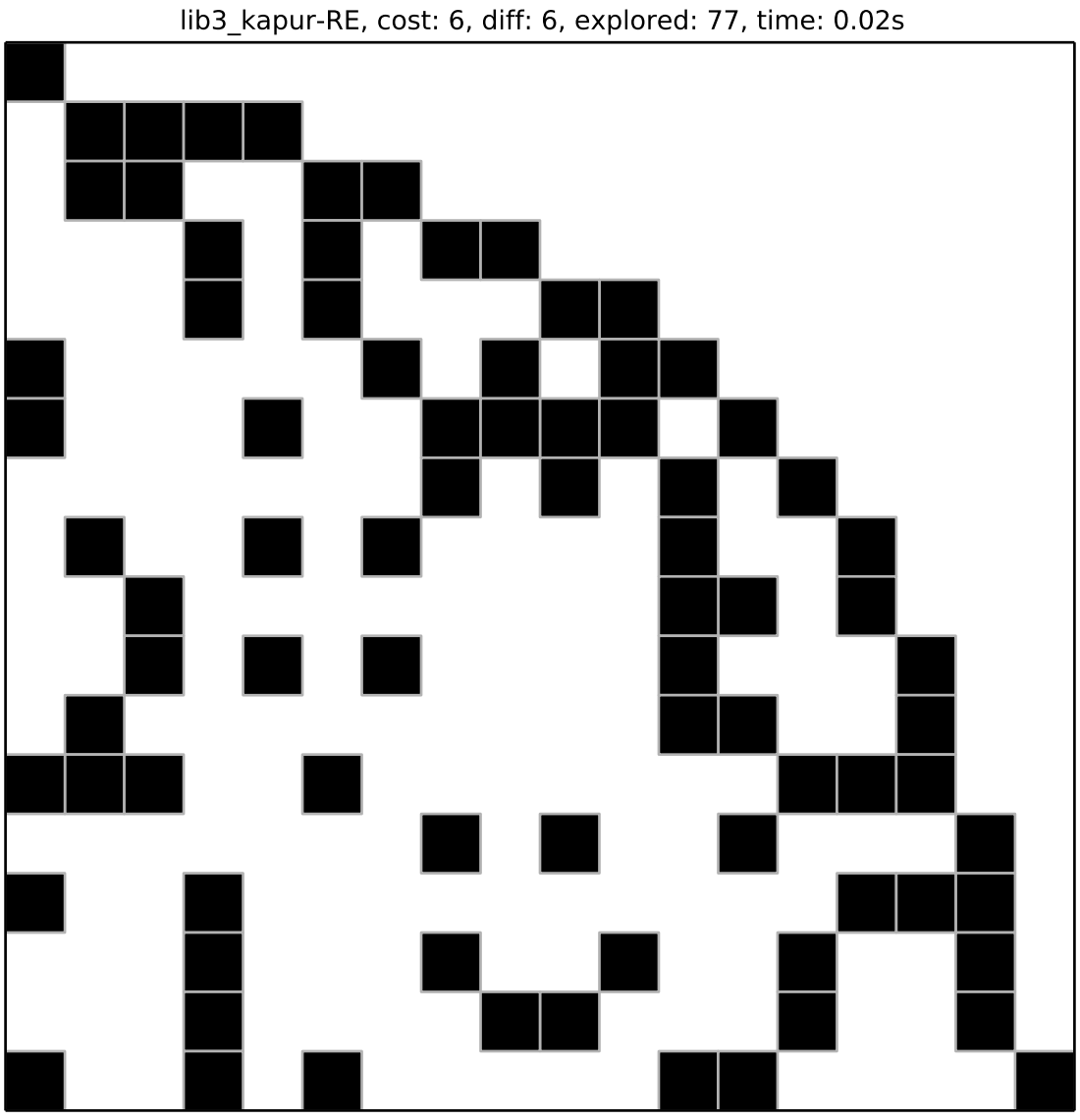
lib3_kapur-IN 18x18 (83) con: 9, var: 9



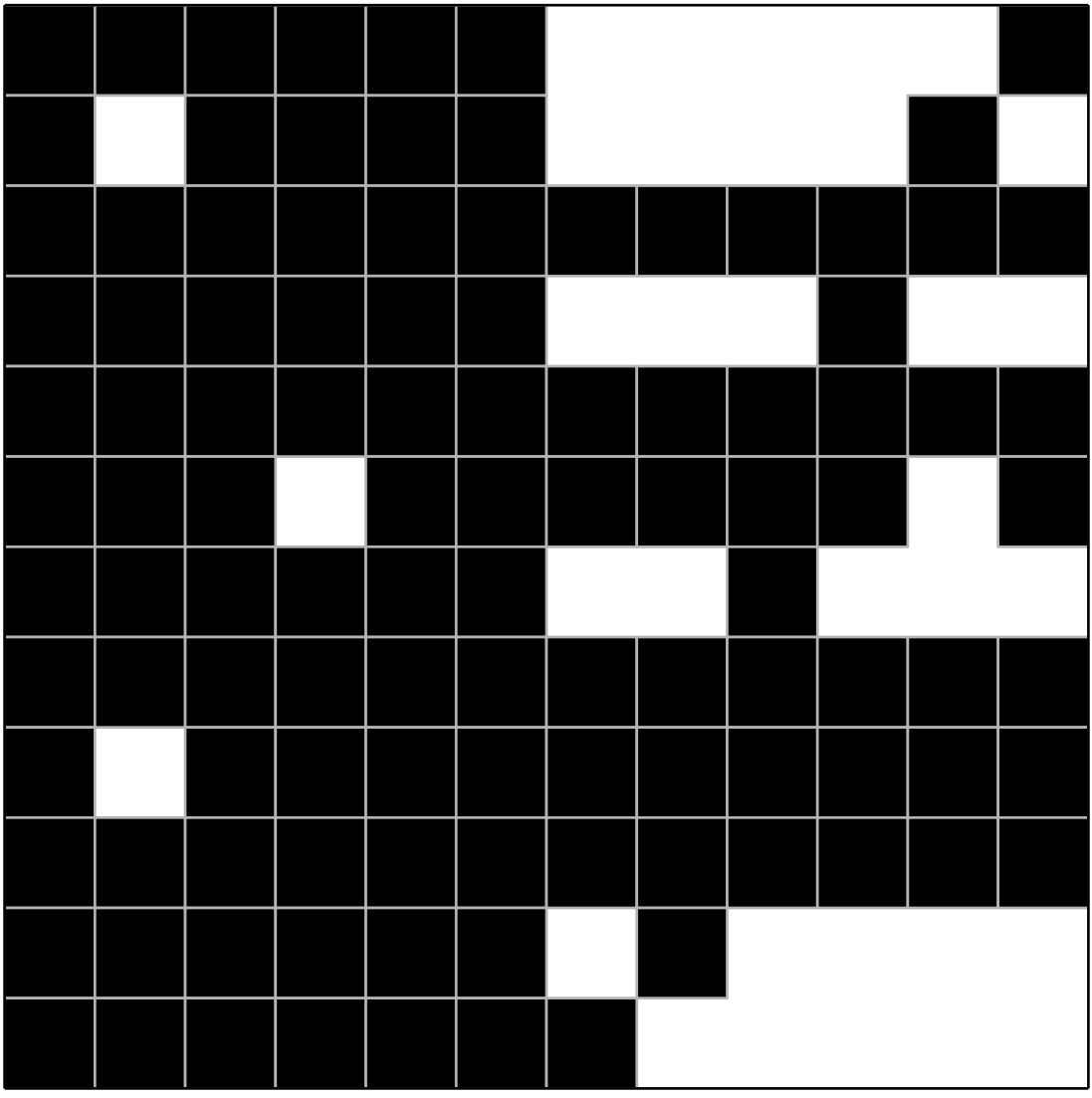

lib3_kapur-IN, cost: 6, diff: 6, explored: 75, time: 0.02s

lib3_kapur-RE 18x18 (83) con: 9, var: 9




lib3_kapur-RE, cost: 6, diff: 6, explored: 77, time: 0.02s

lib3_katsura5-00 12x12 (110) con: 6, var: 6



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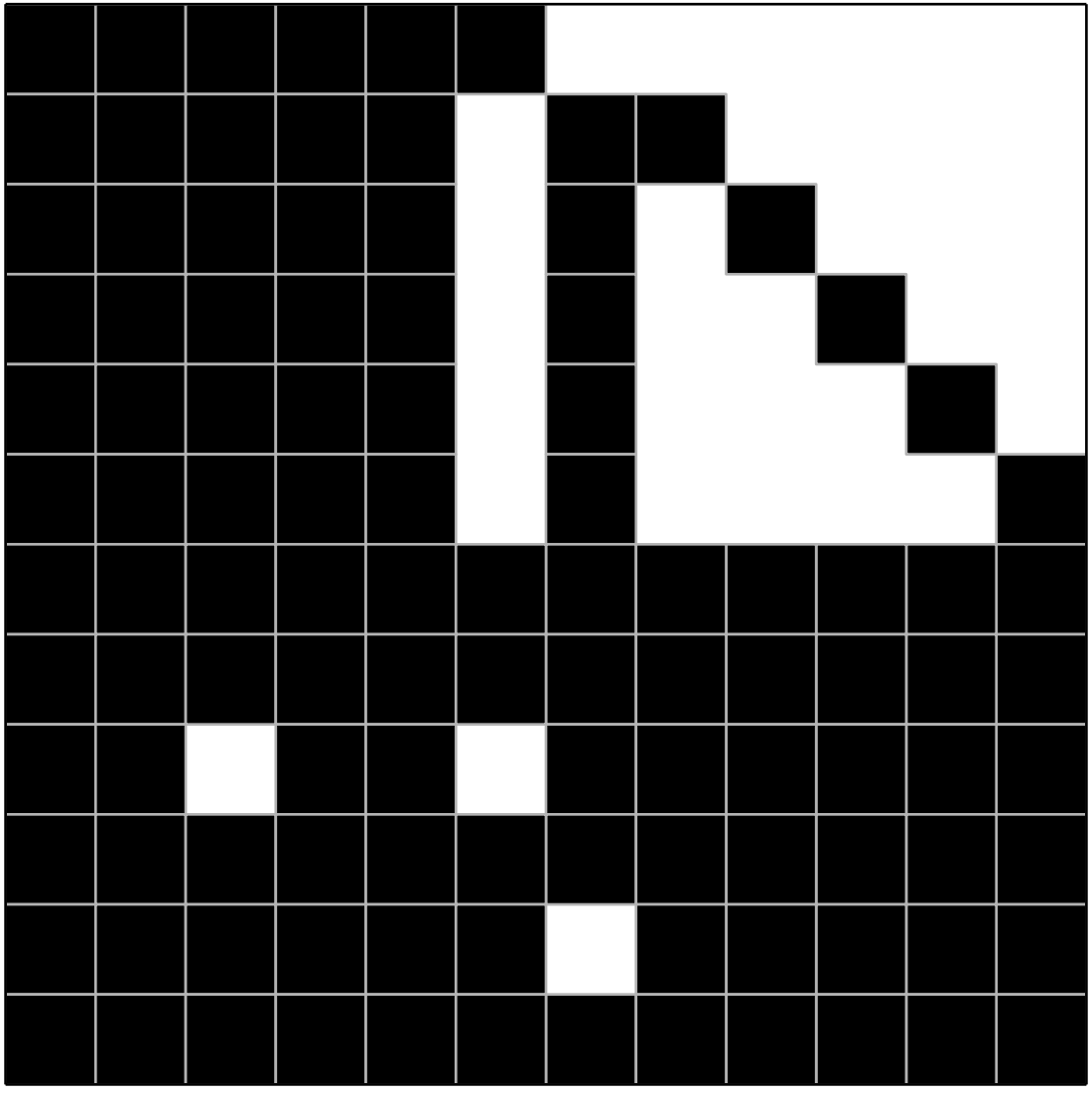
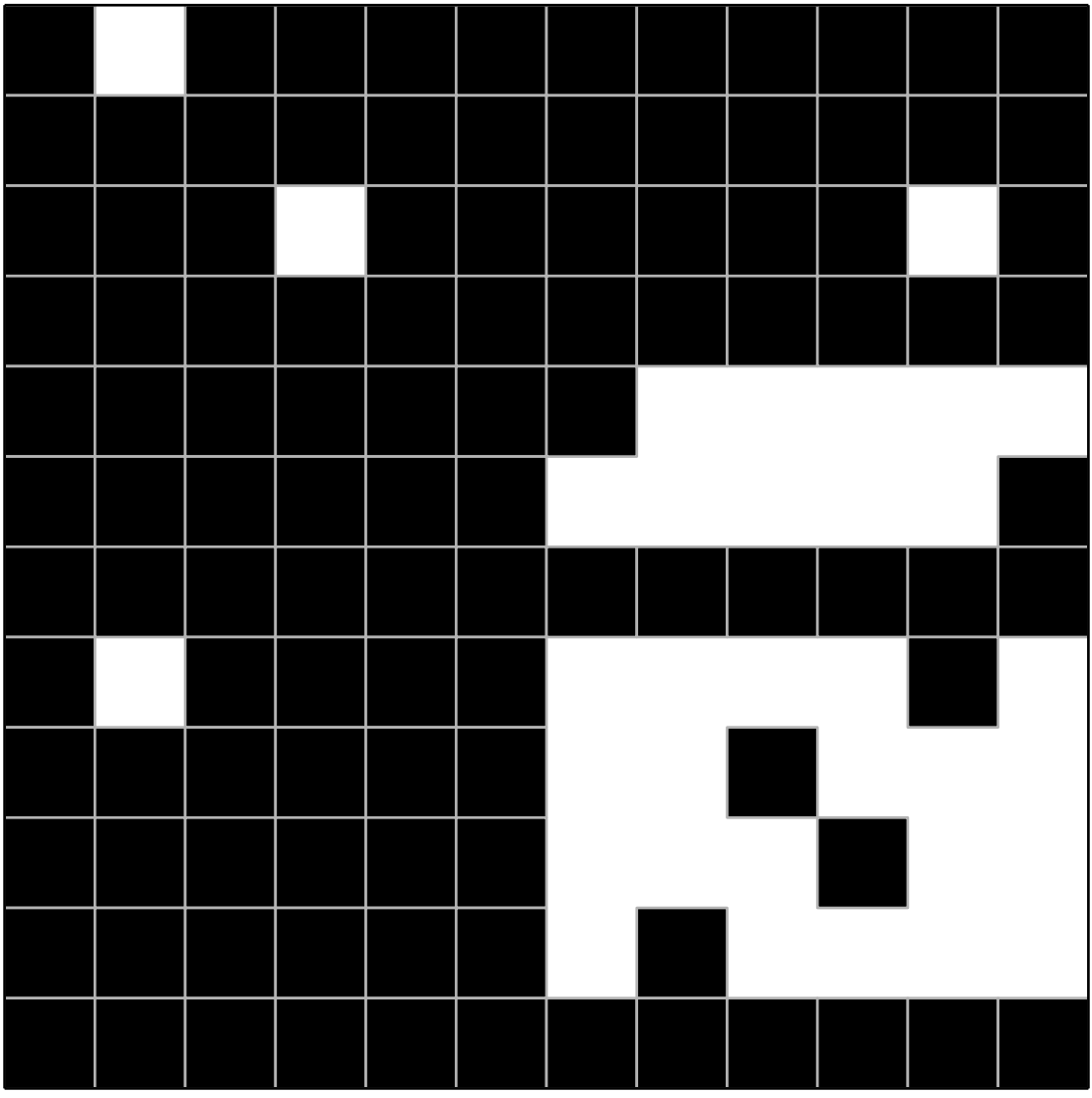


lib3_katsura5-01 12x12 (110) con: 6, var: 6



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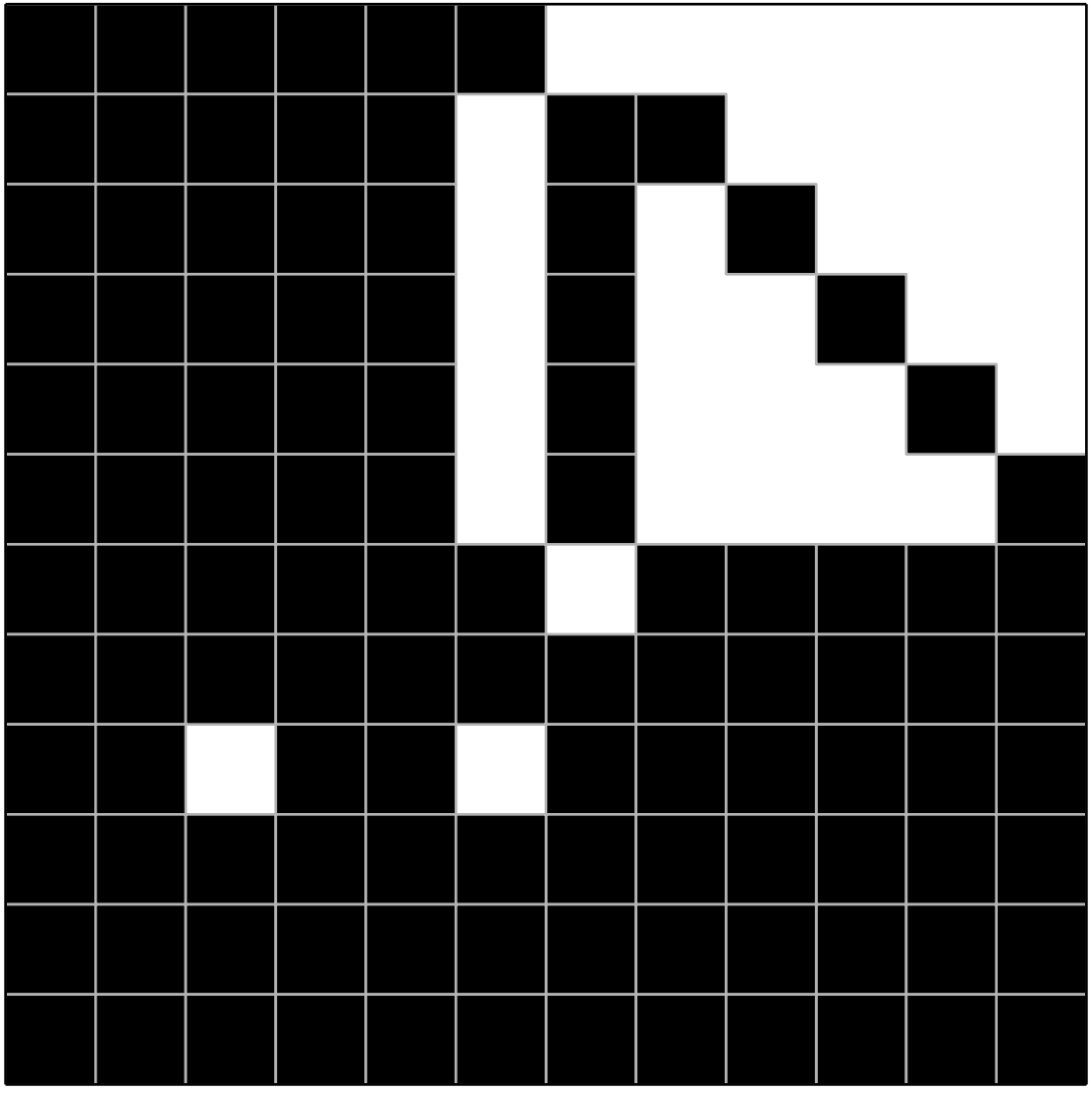
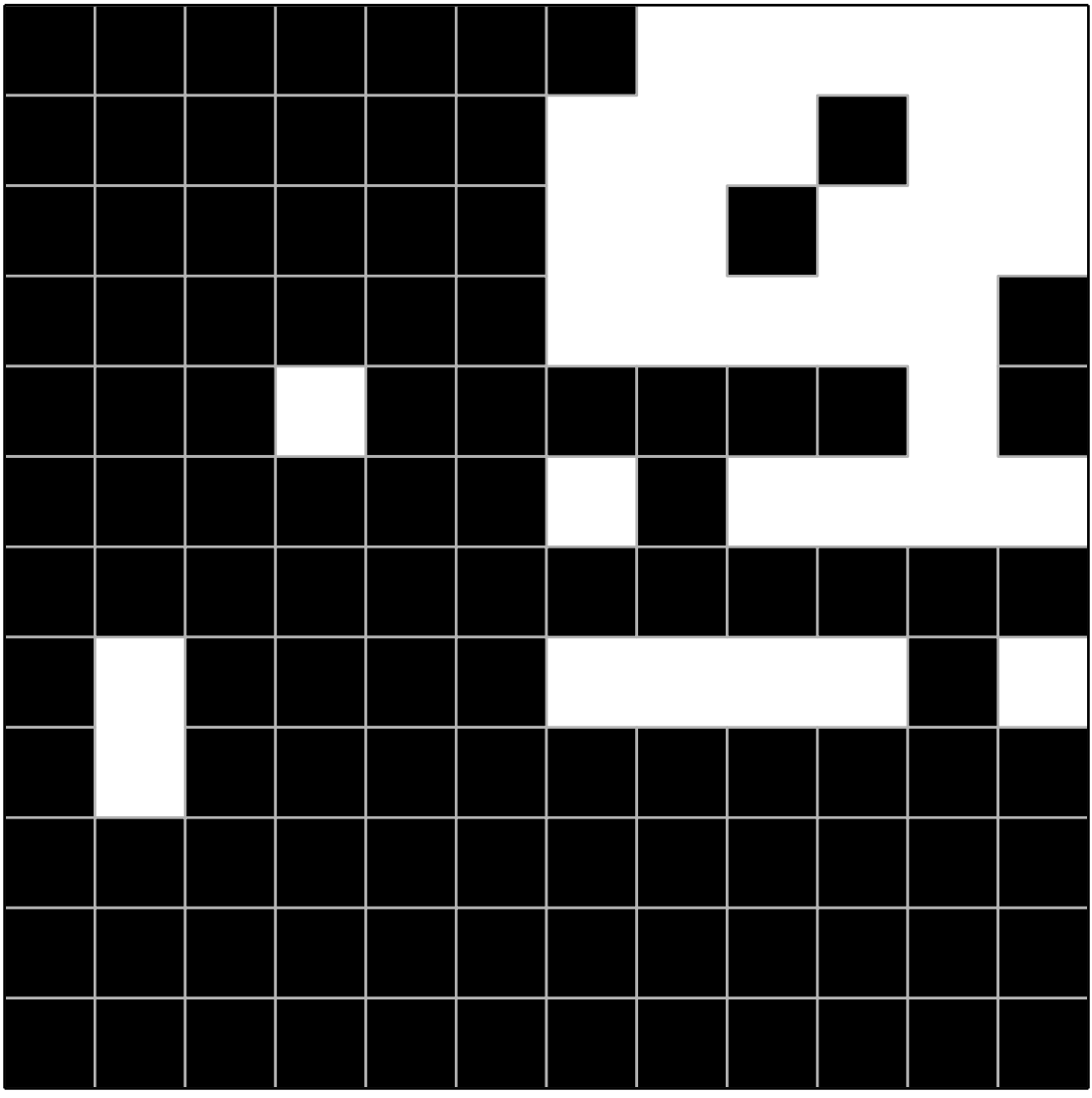


lib3_katsura5-02 12x12 (110) con: 6, var: 6



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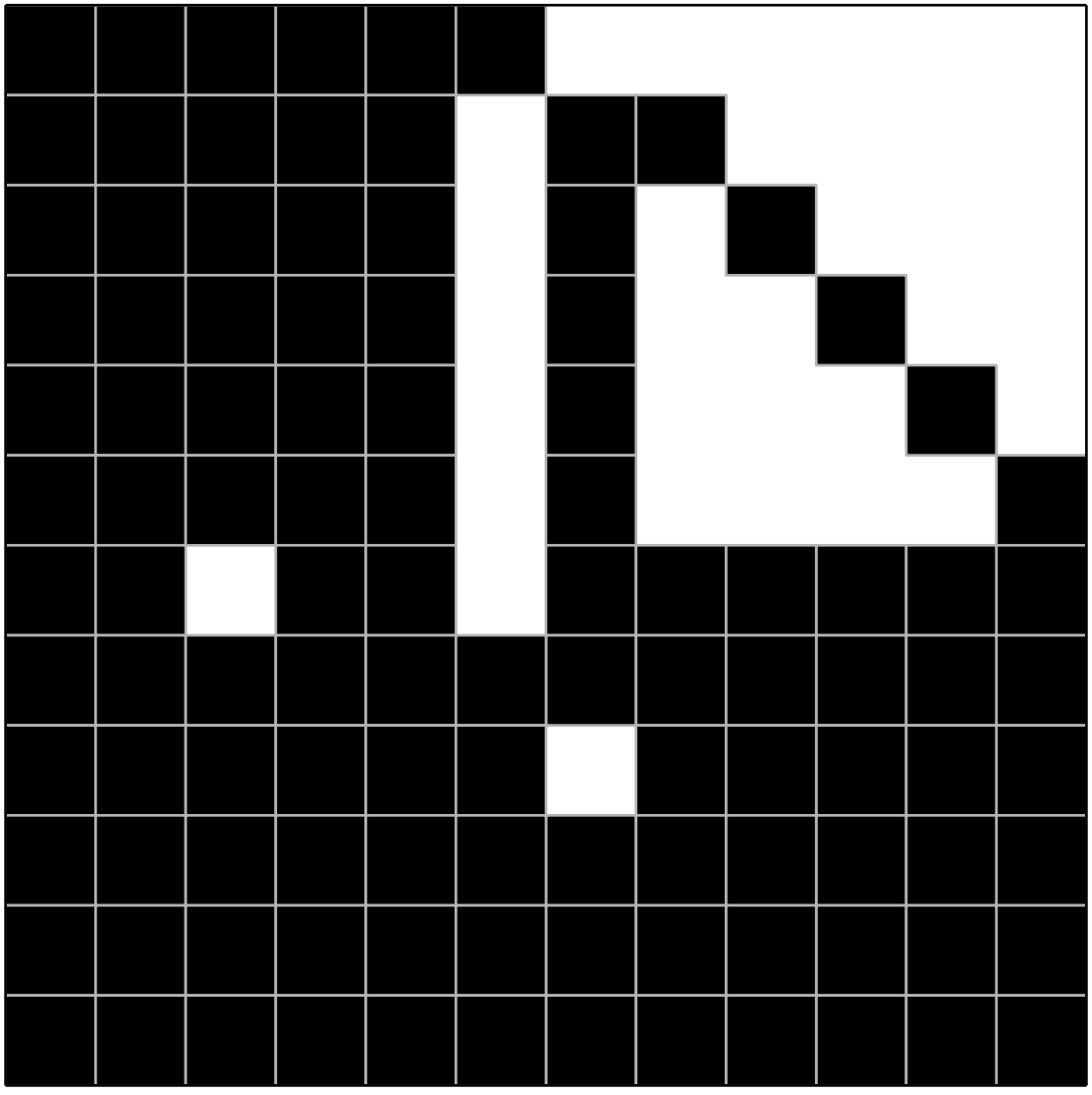
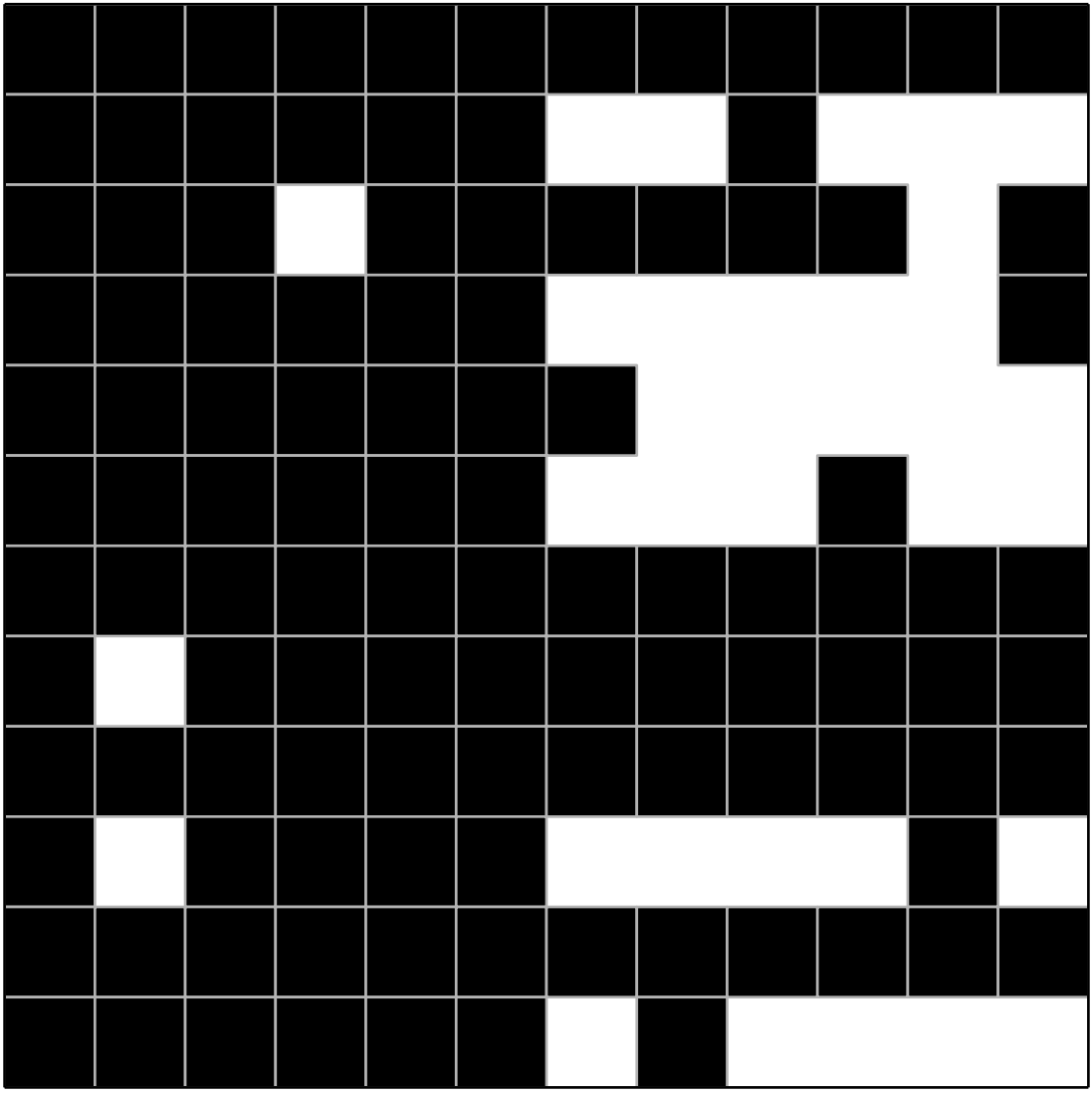


lib3_katsura5-03 12x12 (110) con: 6, var: 6



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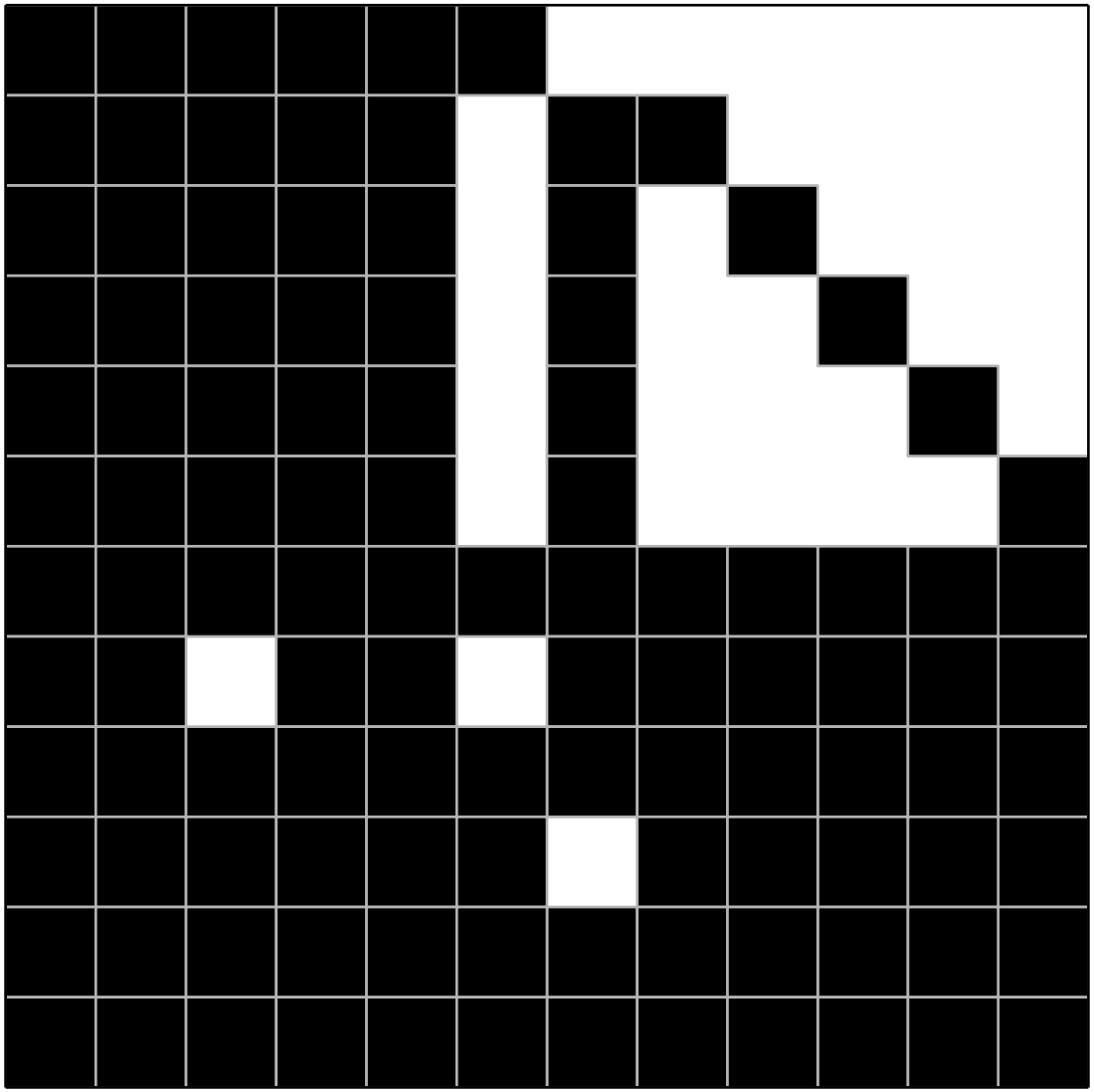
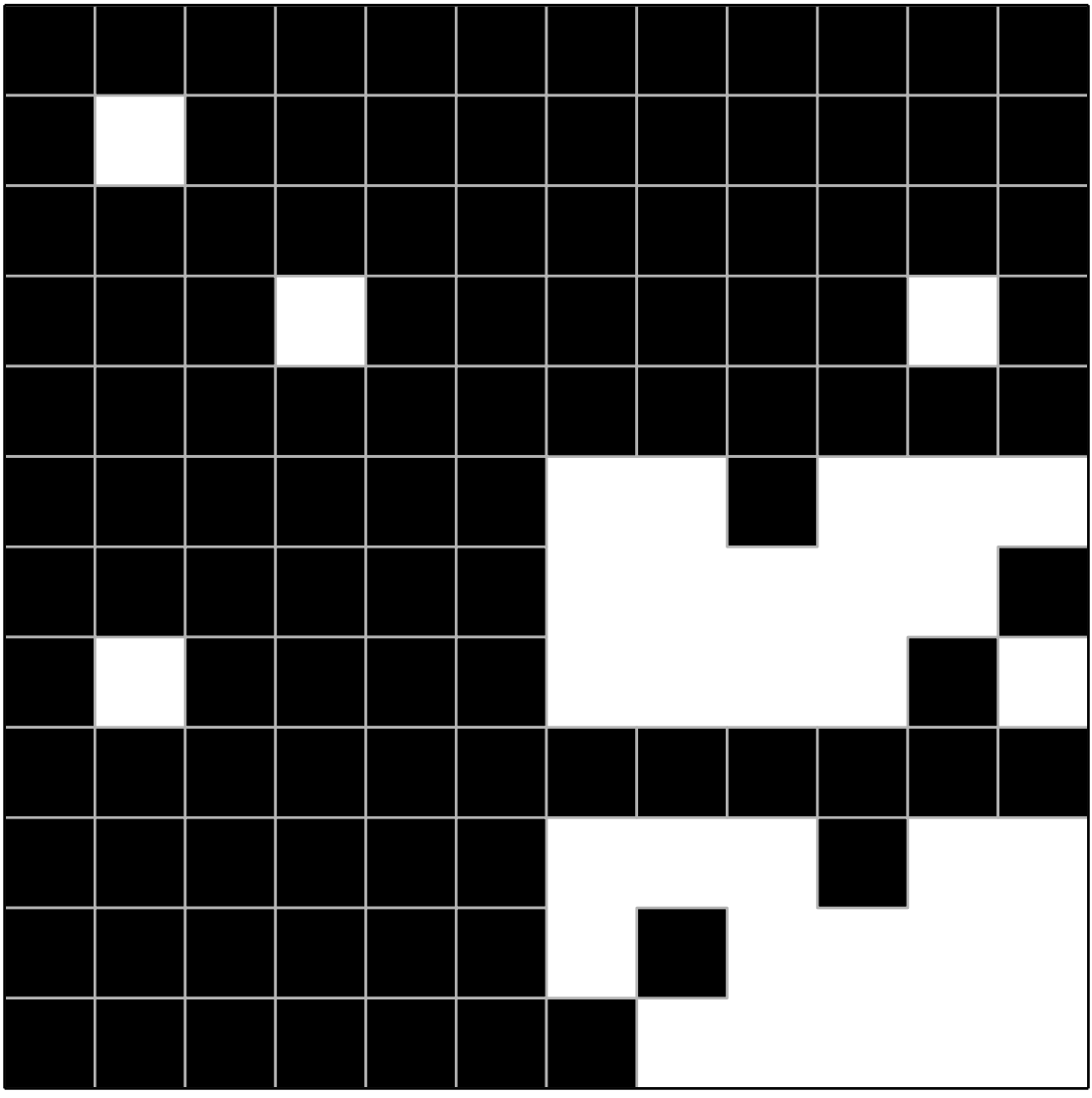
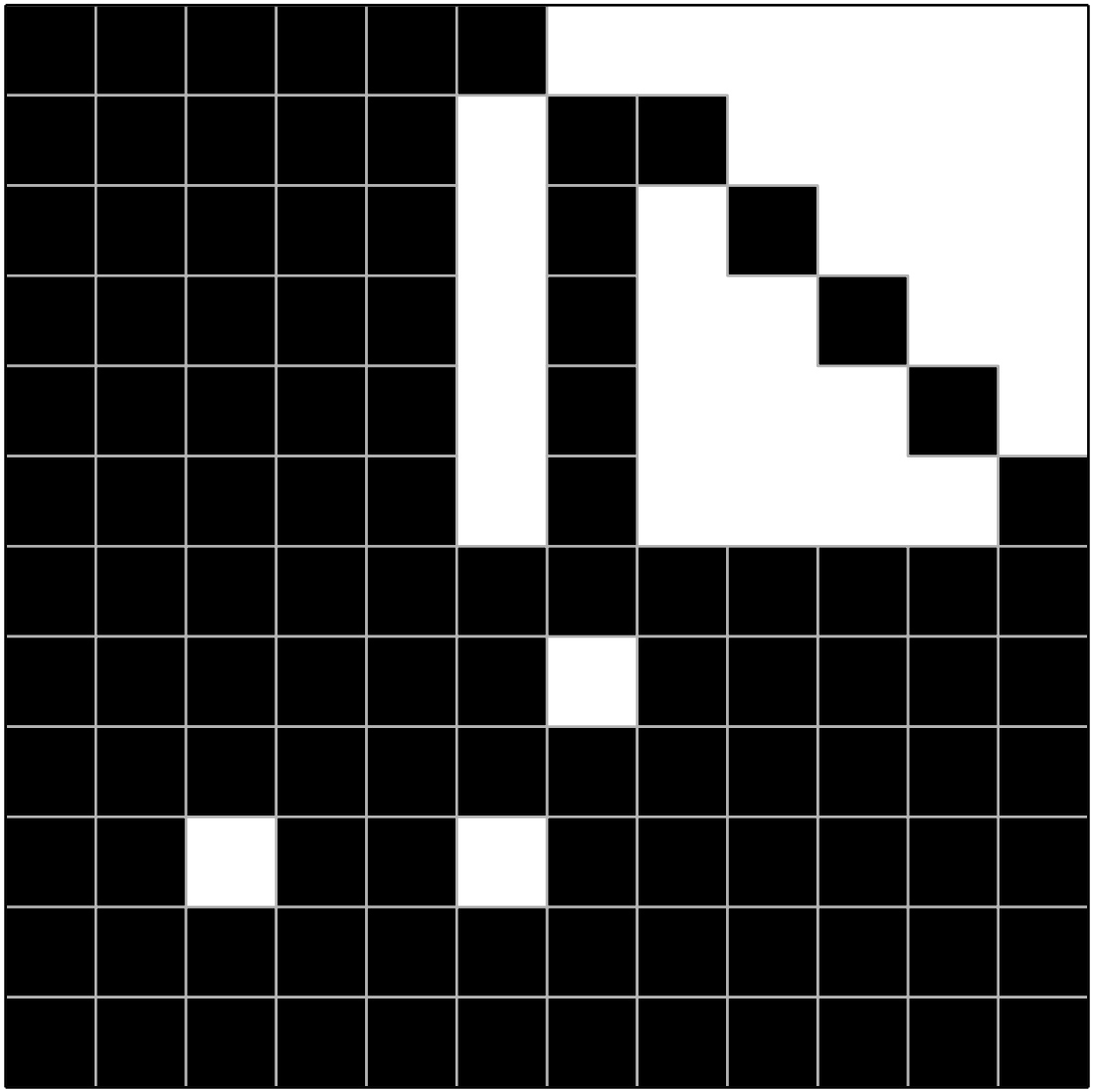


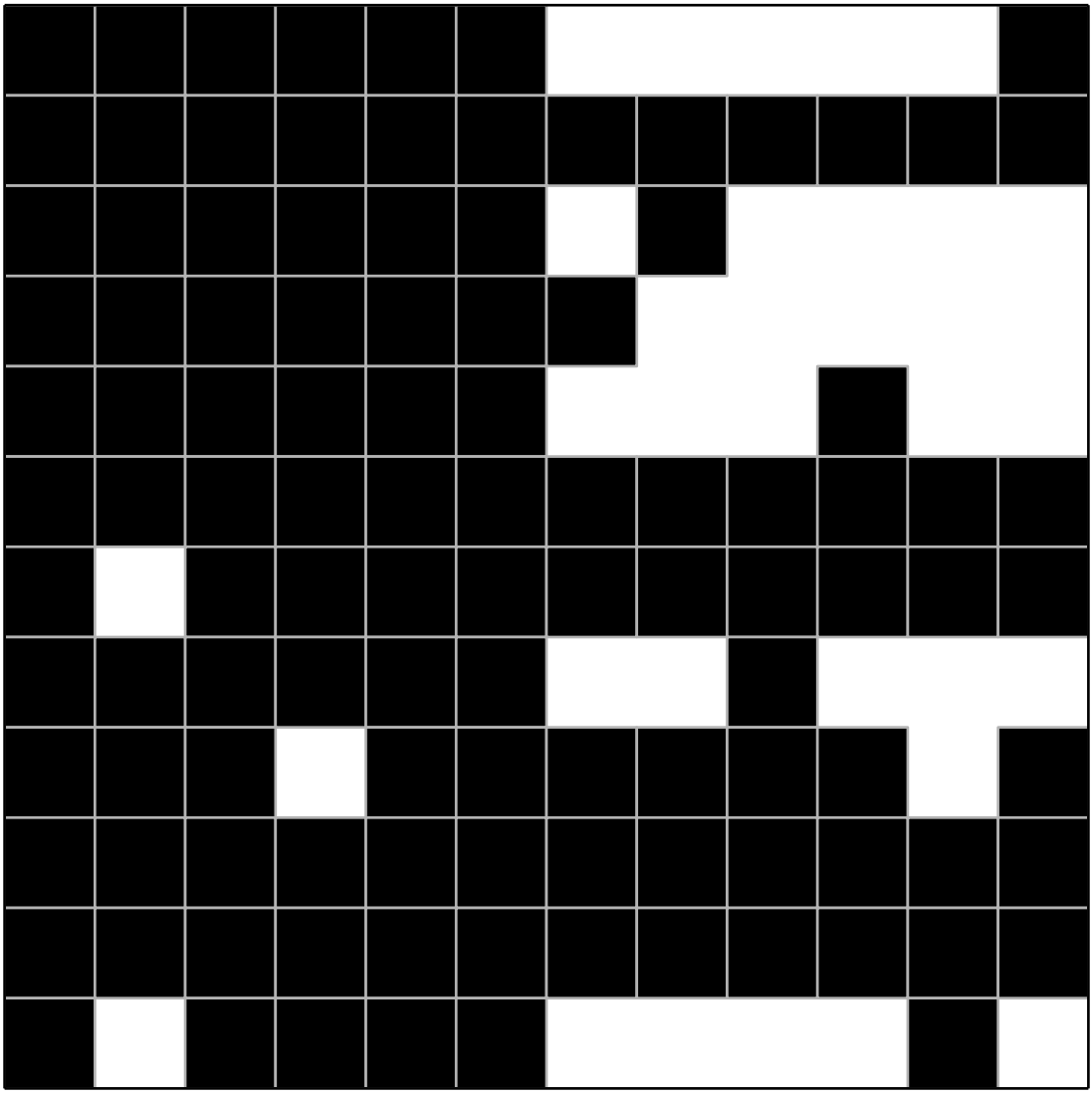
lib3_katsura5-04 12x12 (110) con: 6, var: 6



lib3_katsura5-04, cost: 6, diff: 6, explored: 2, time: 0.00s



lib3_katsura5-05 12x12 (110) con: 6, var: 6



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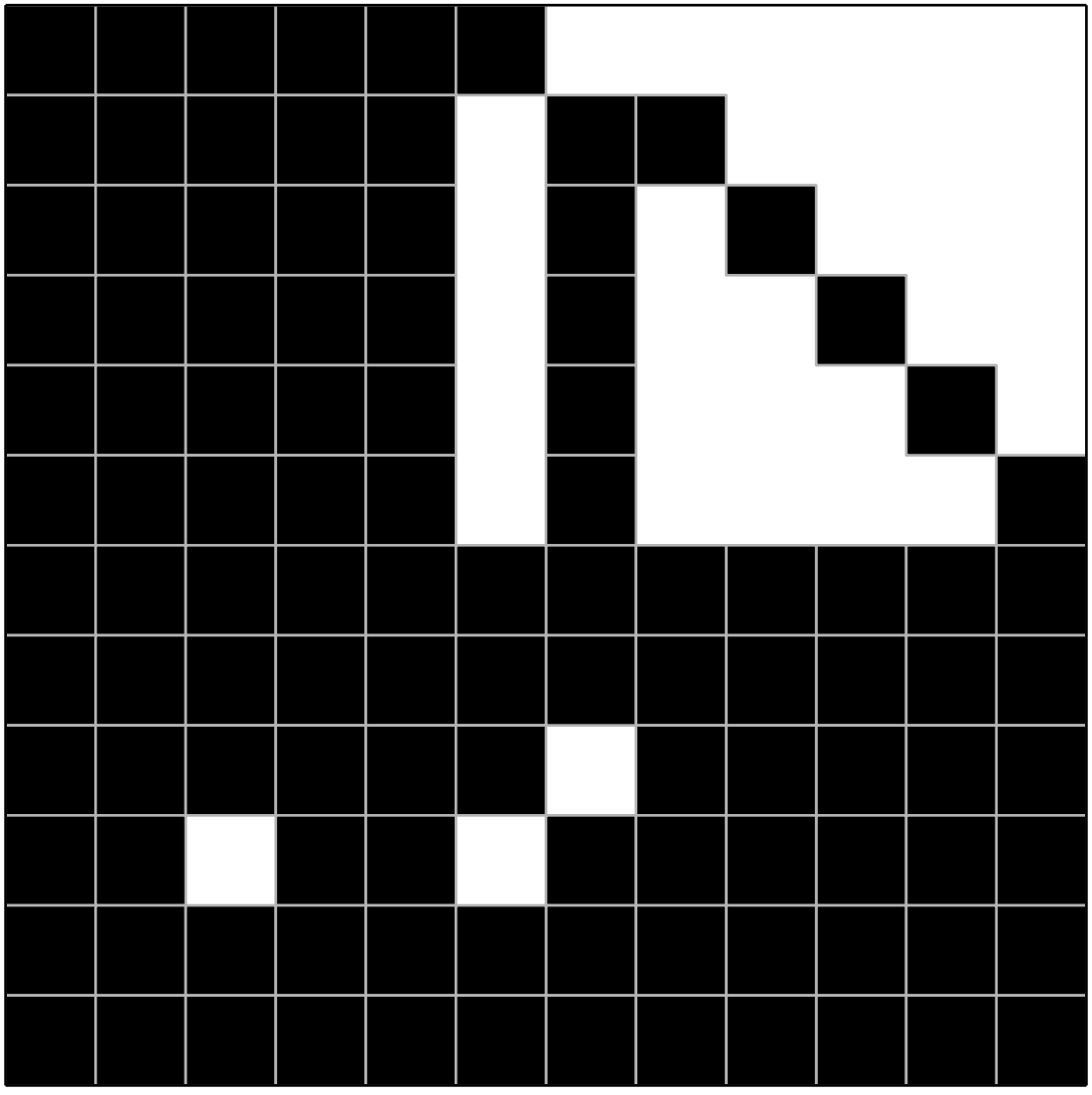

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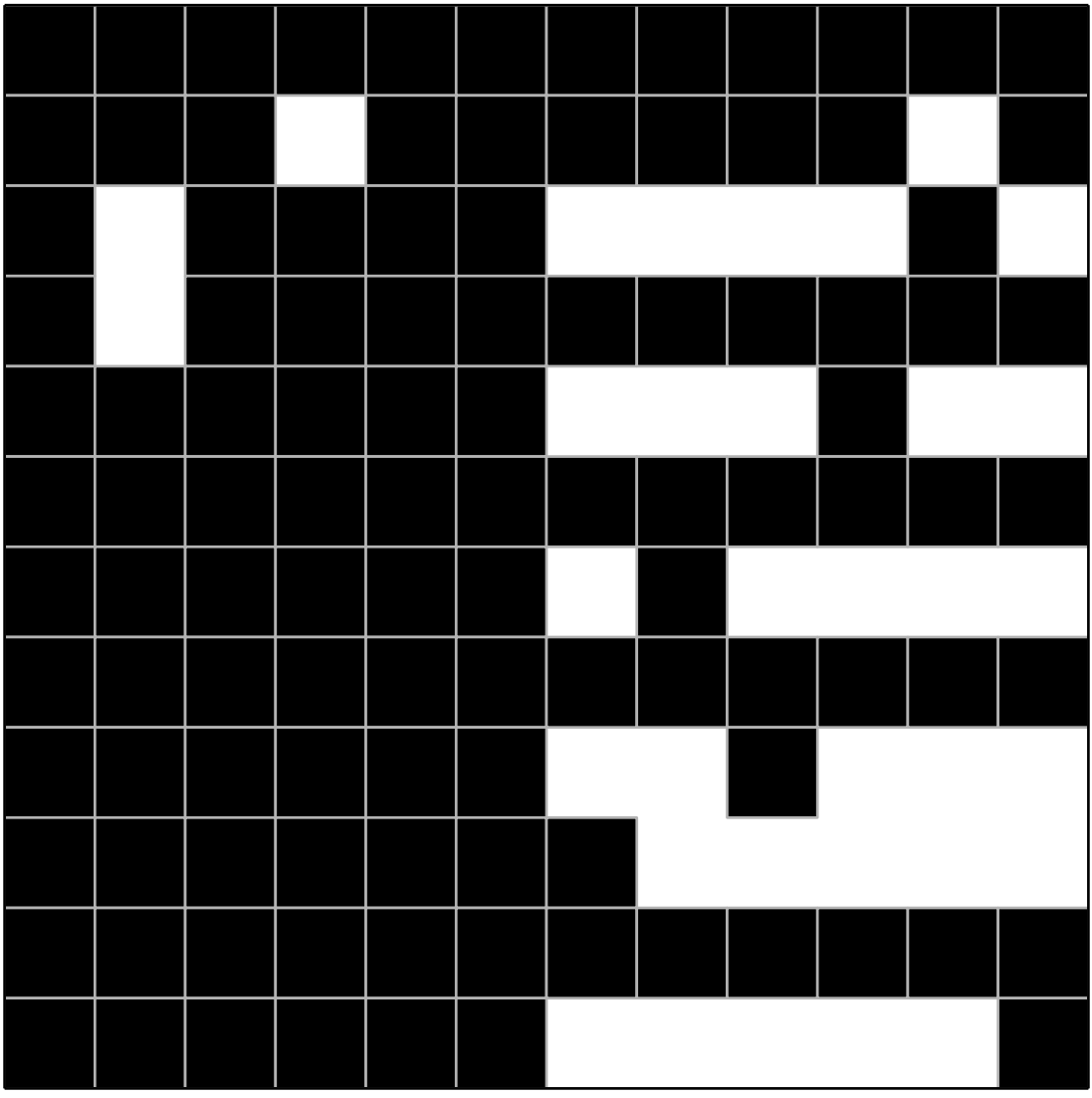

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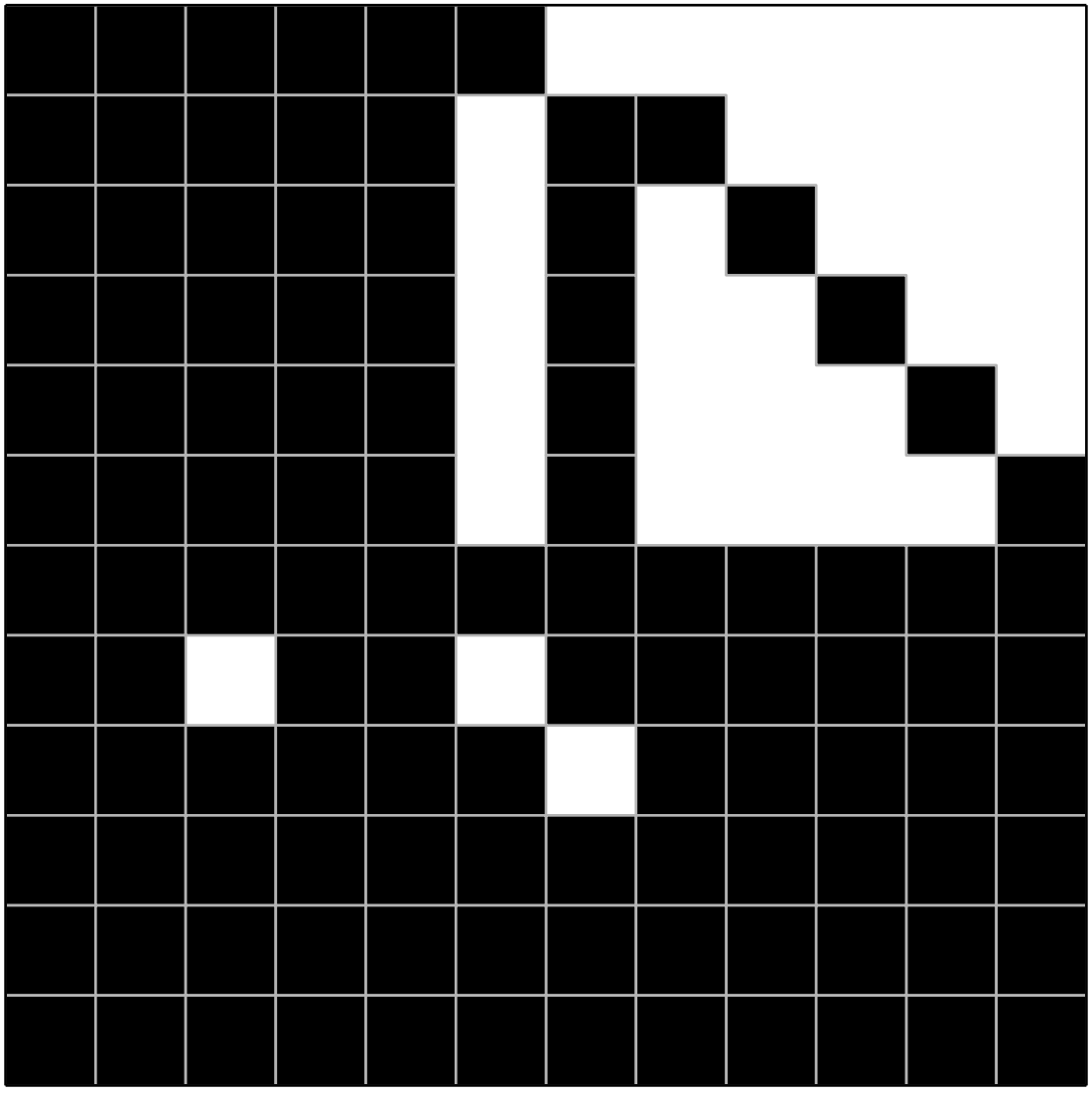
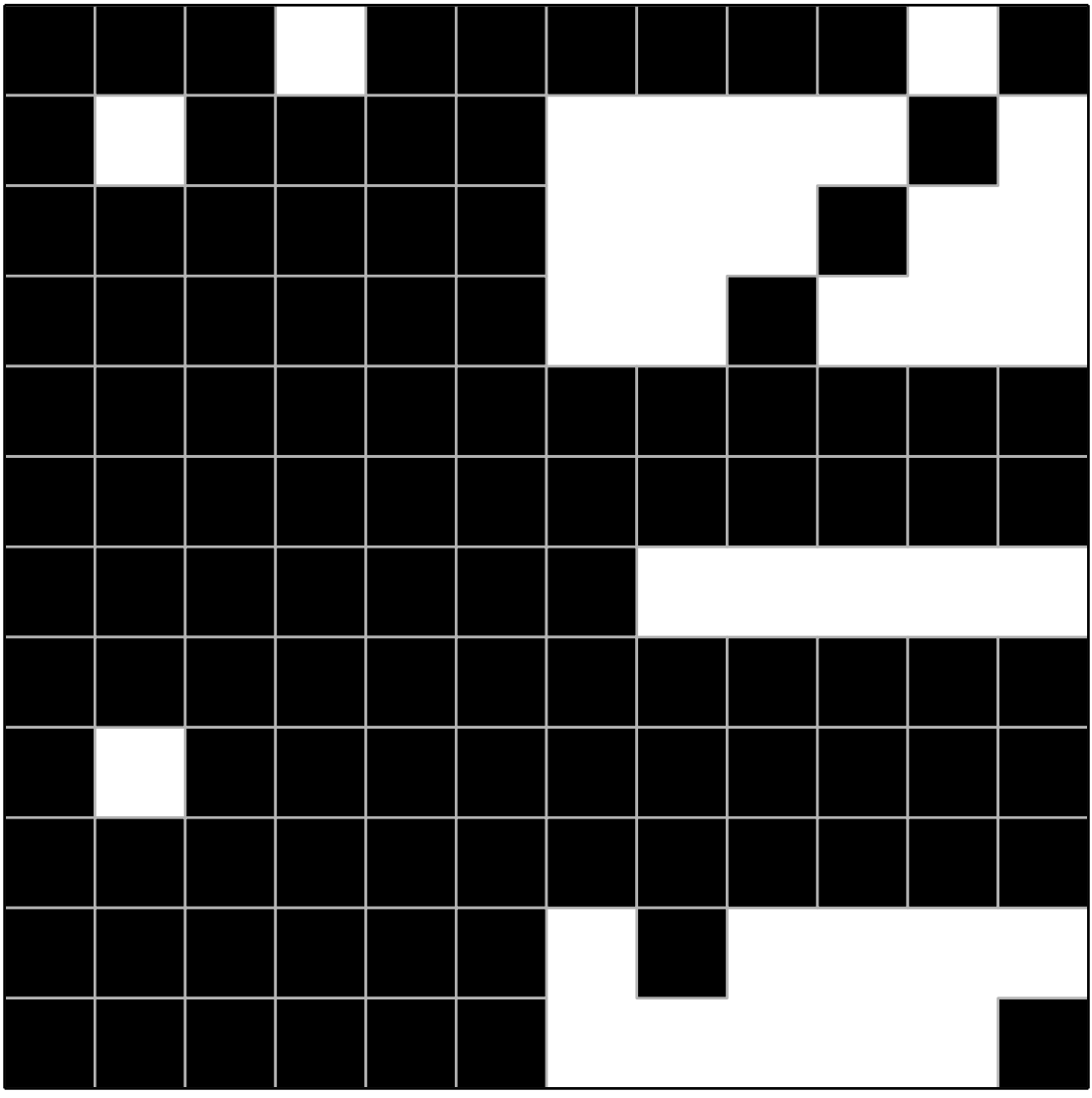


lib3_katsura5-07 12x12 (110) con: 6, var: 6



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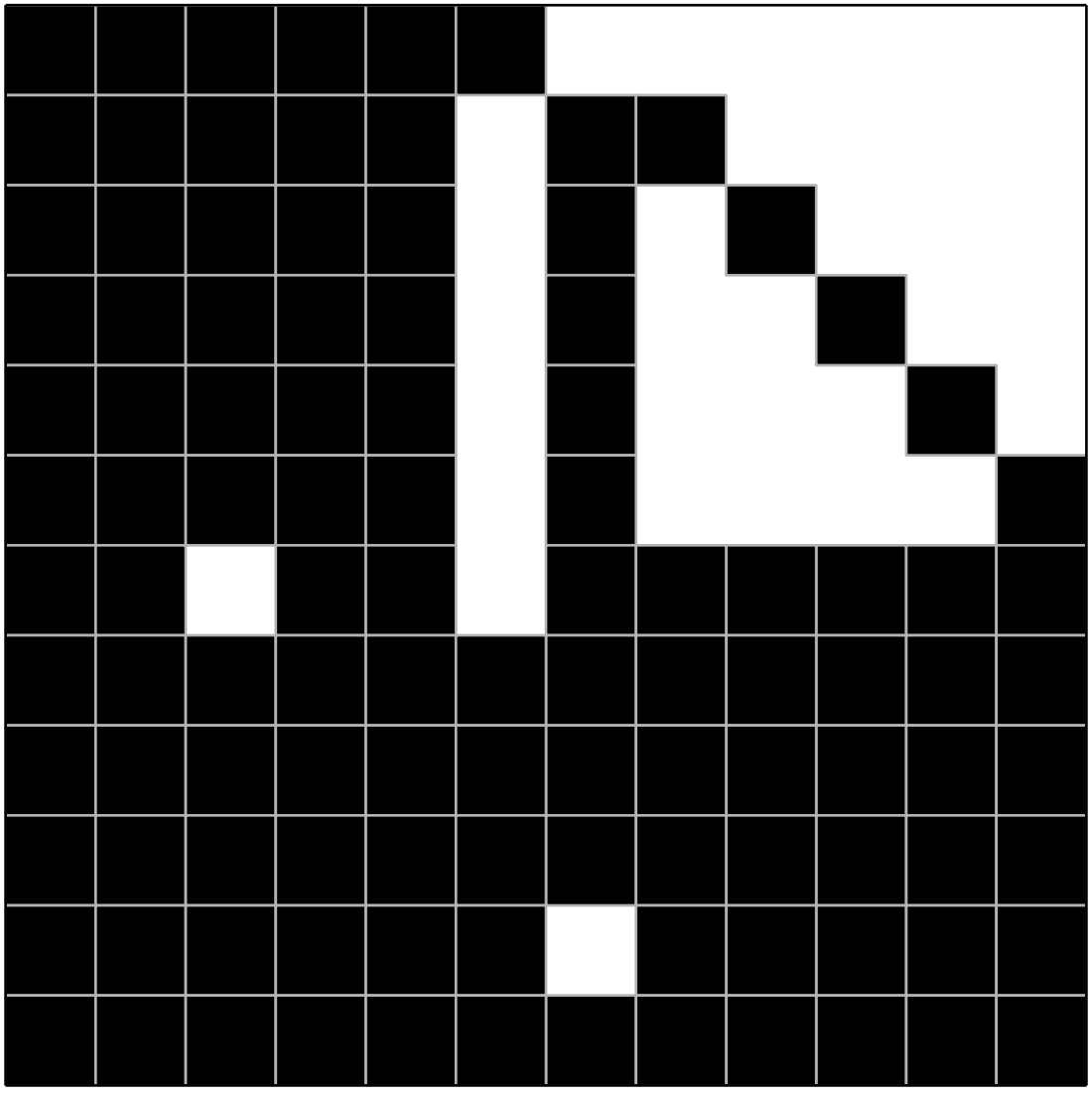
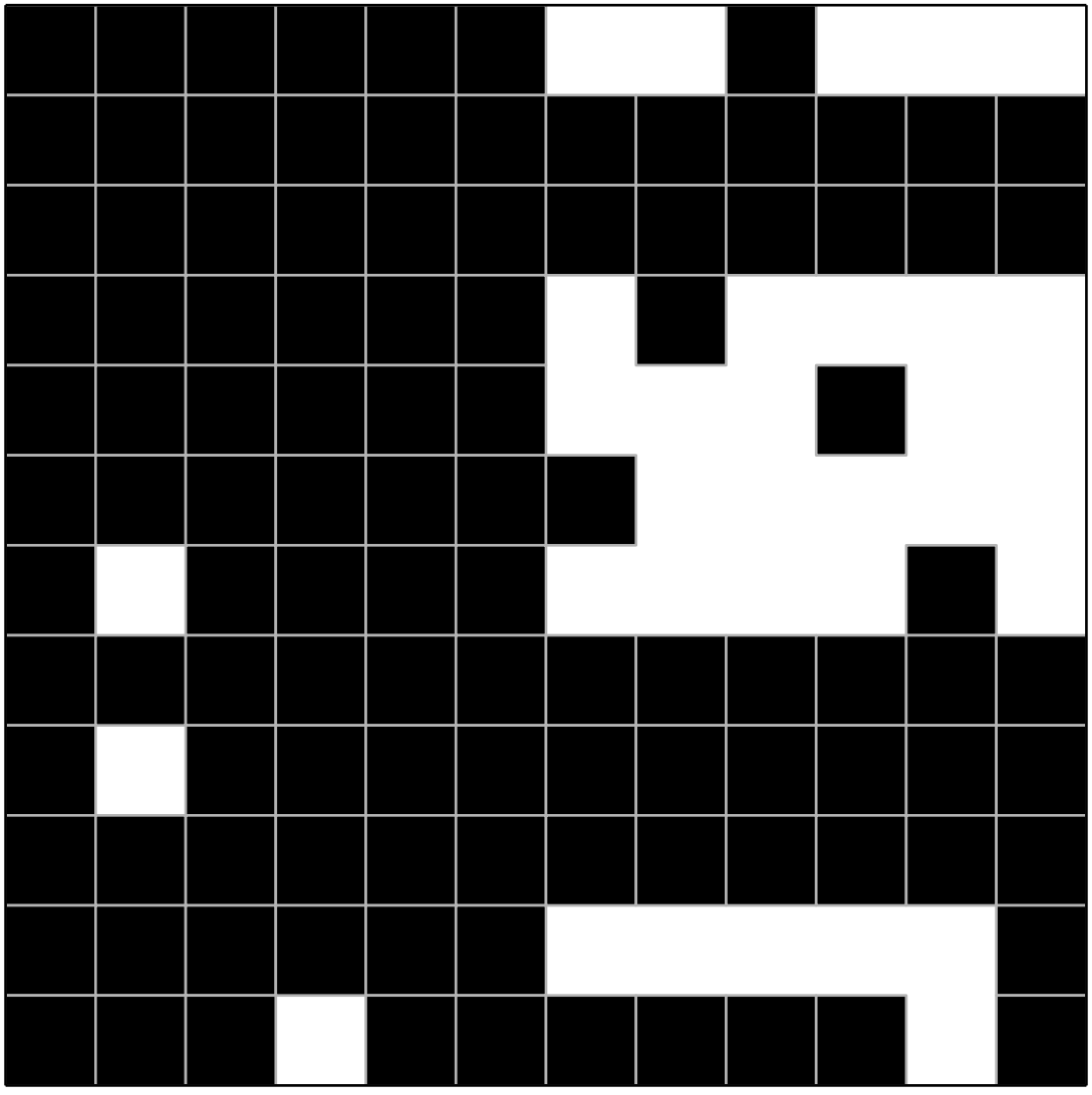


lib3_katsura5-08 12x12 (110) con: 6, var: 6



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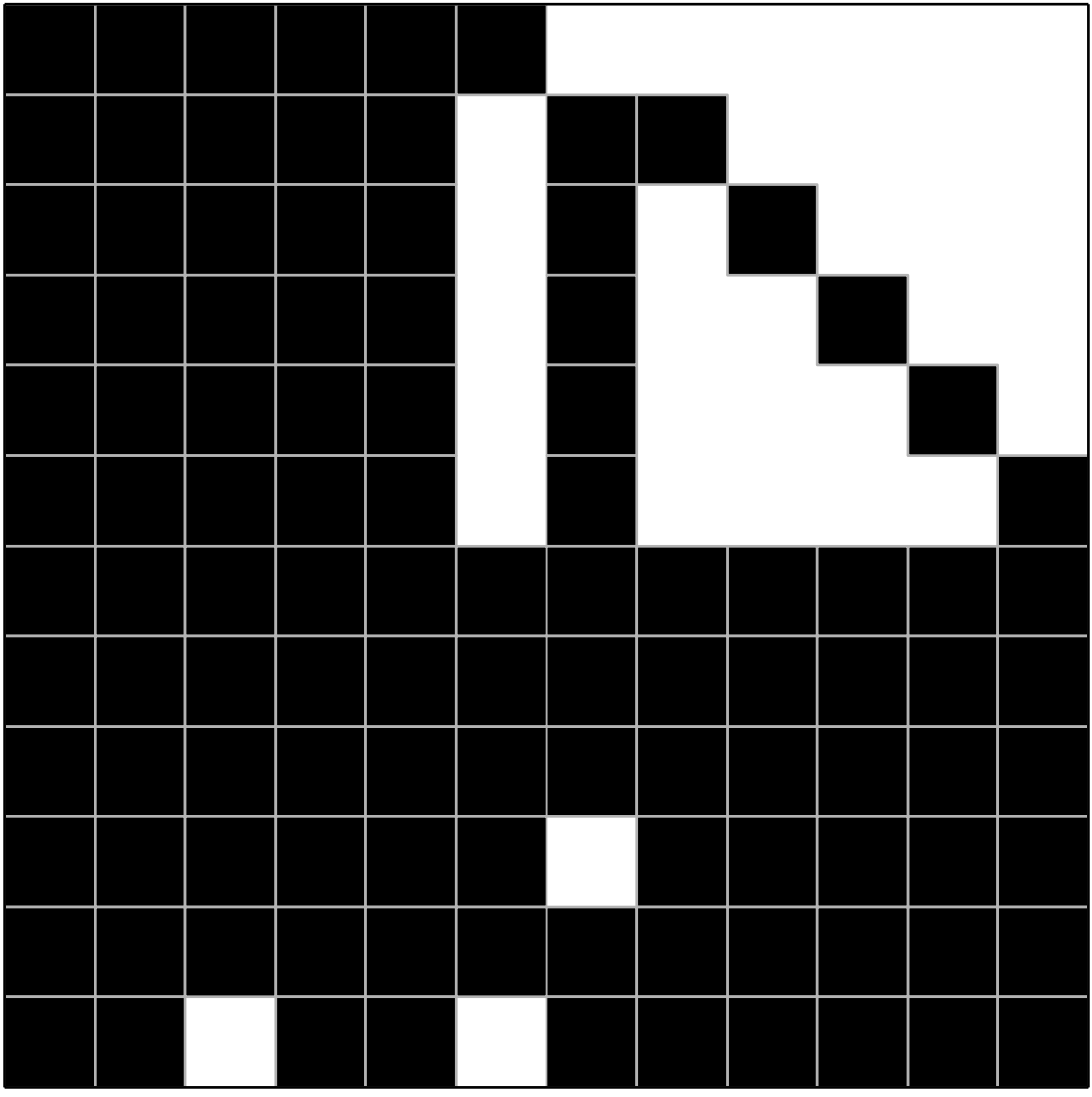
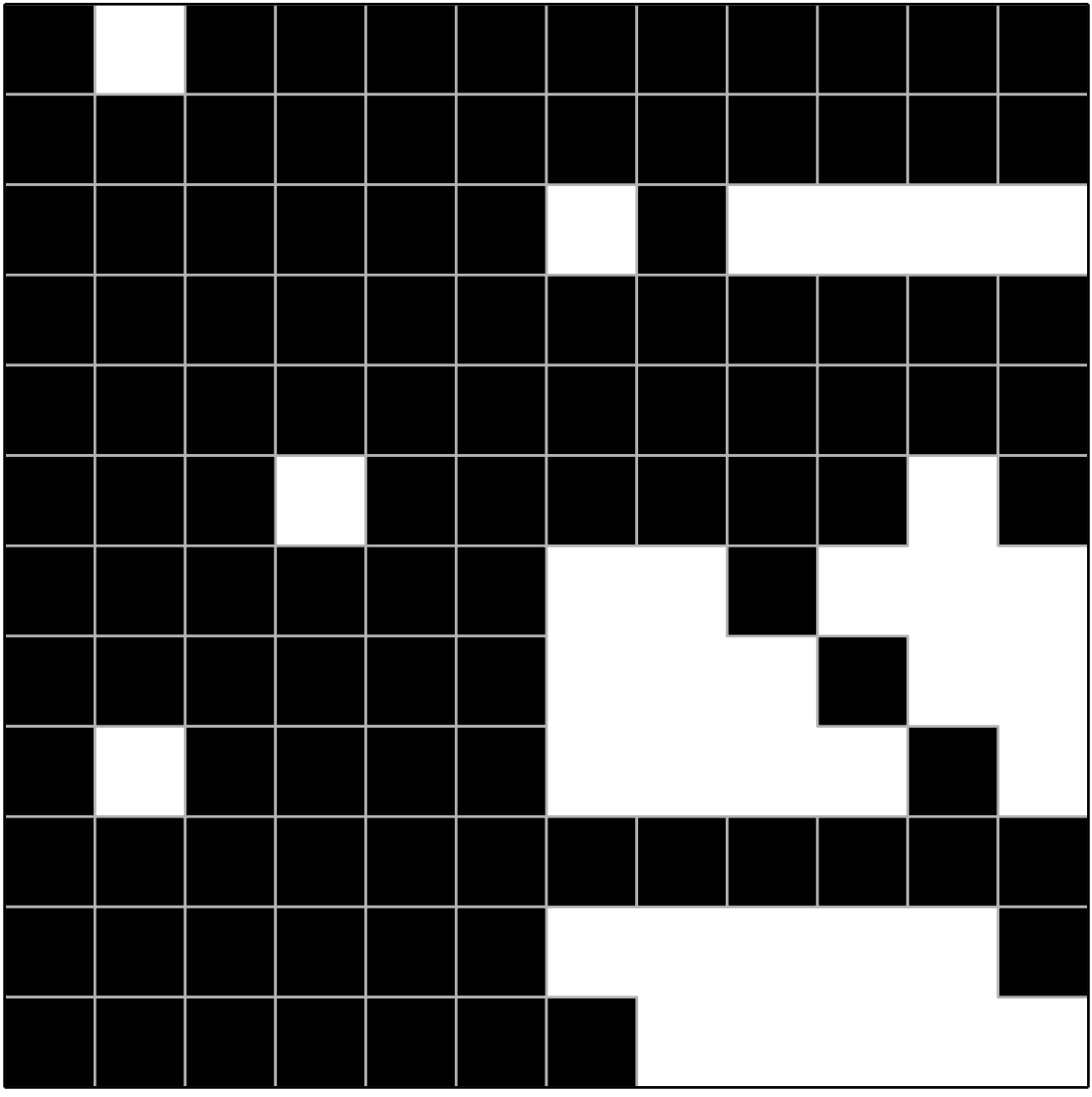


lib3_katsura5-09 12x12 (110) con: 6, var: 6



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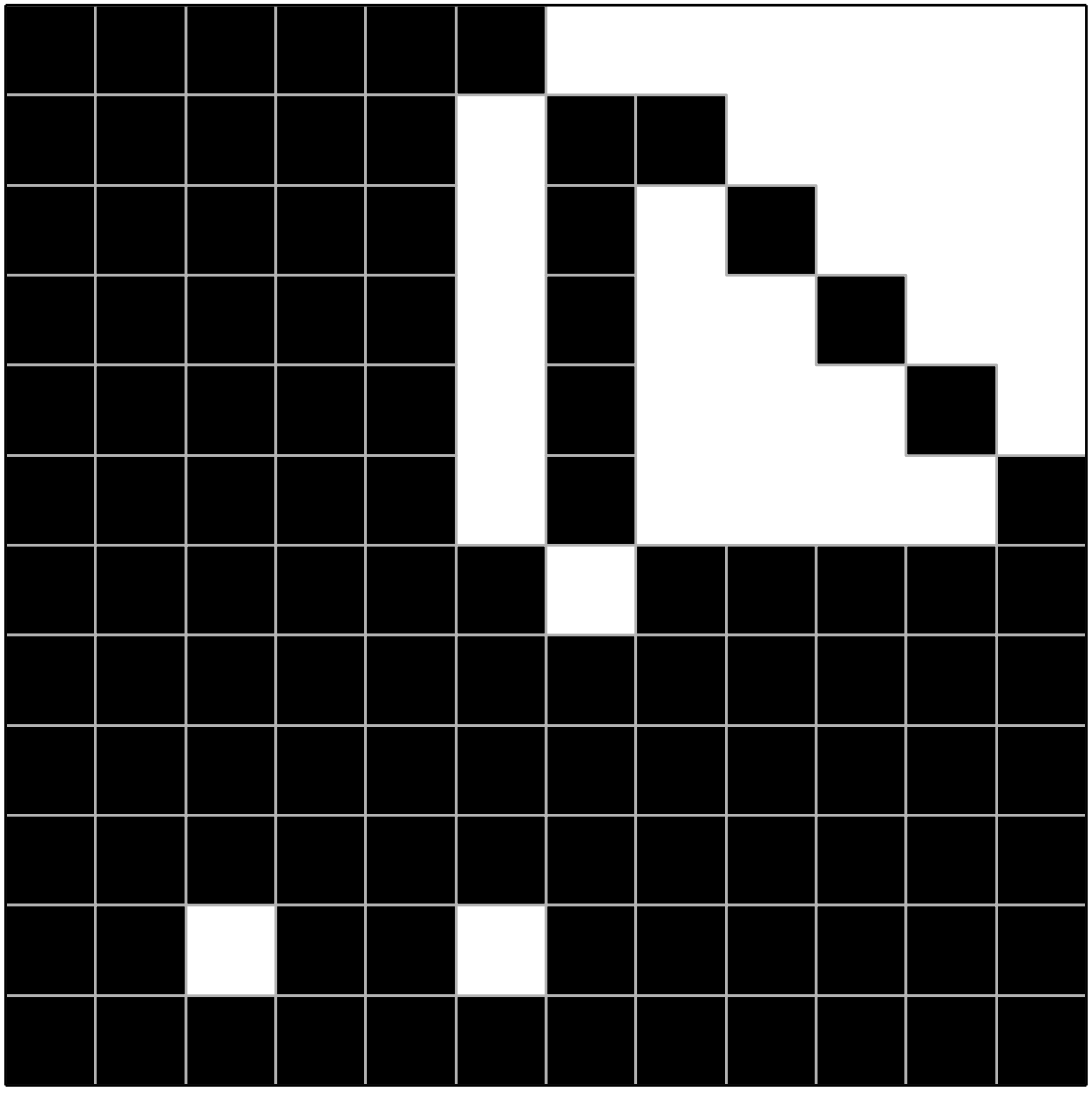
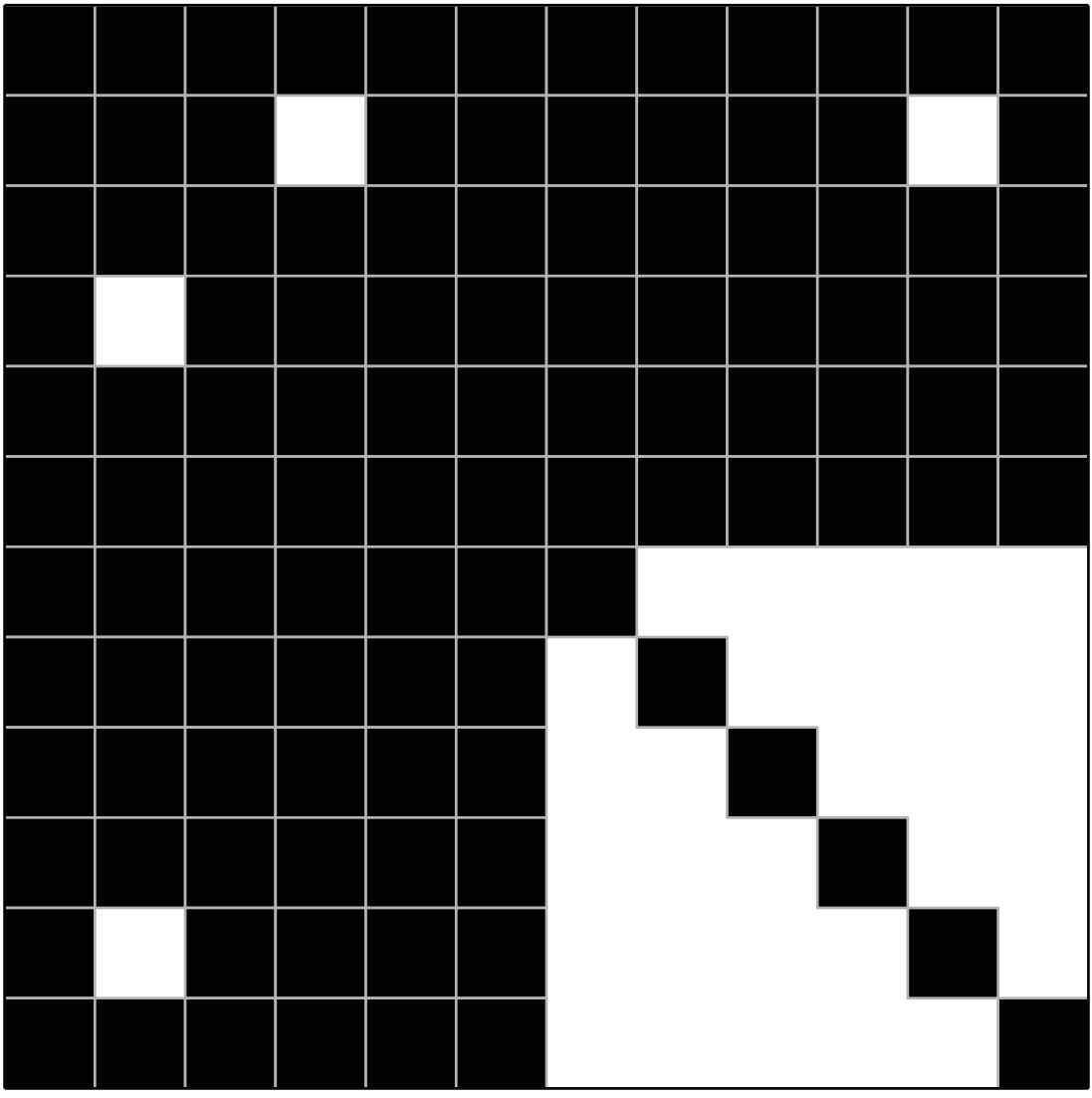
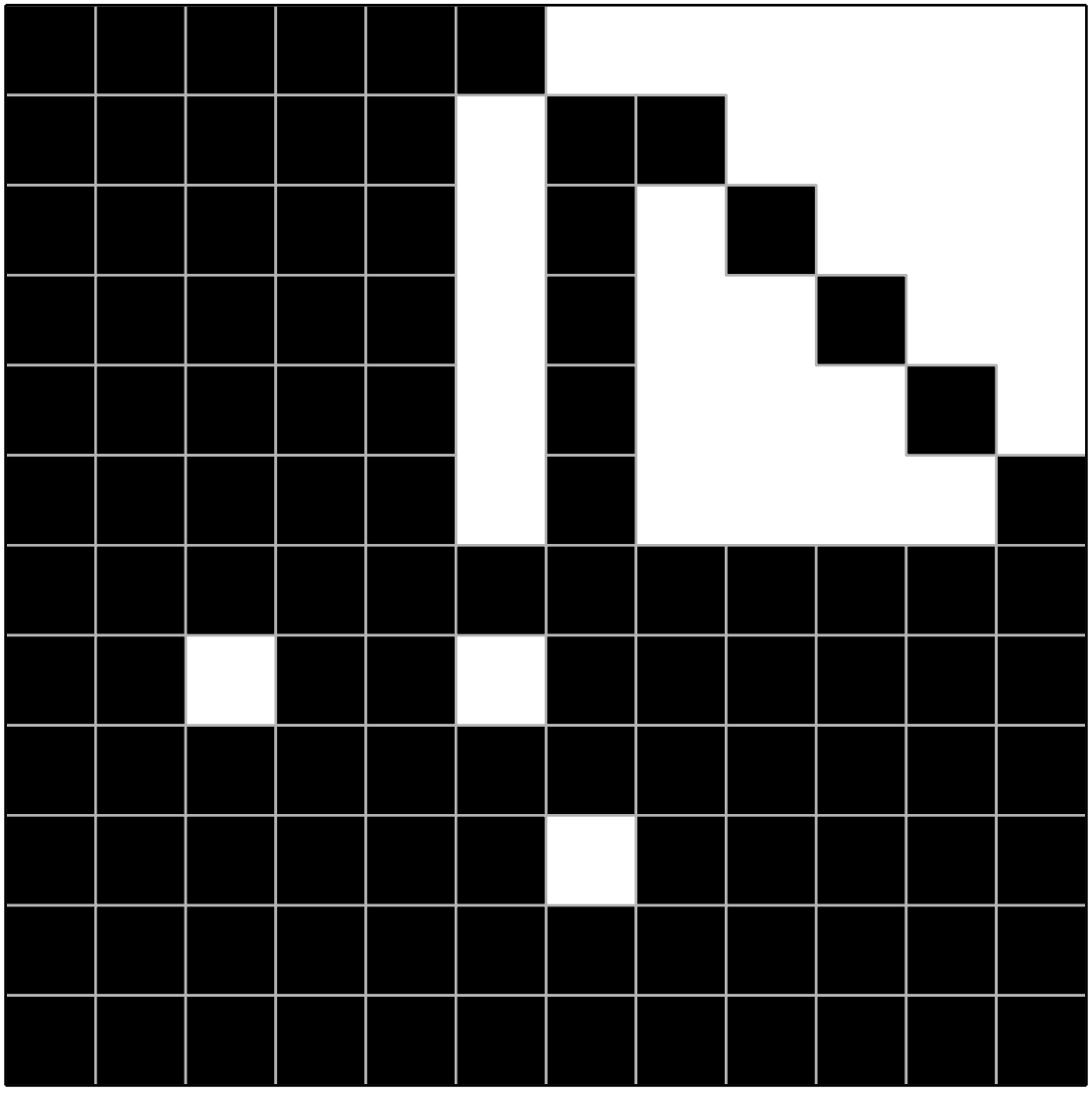
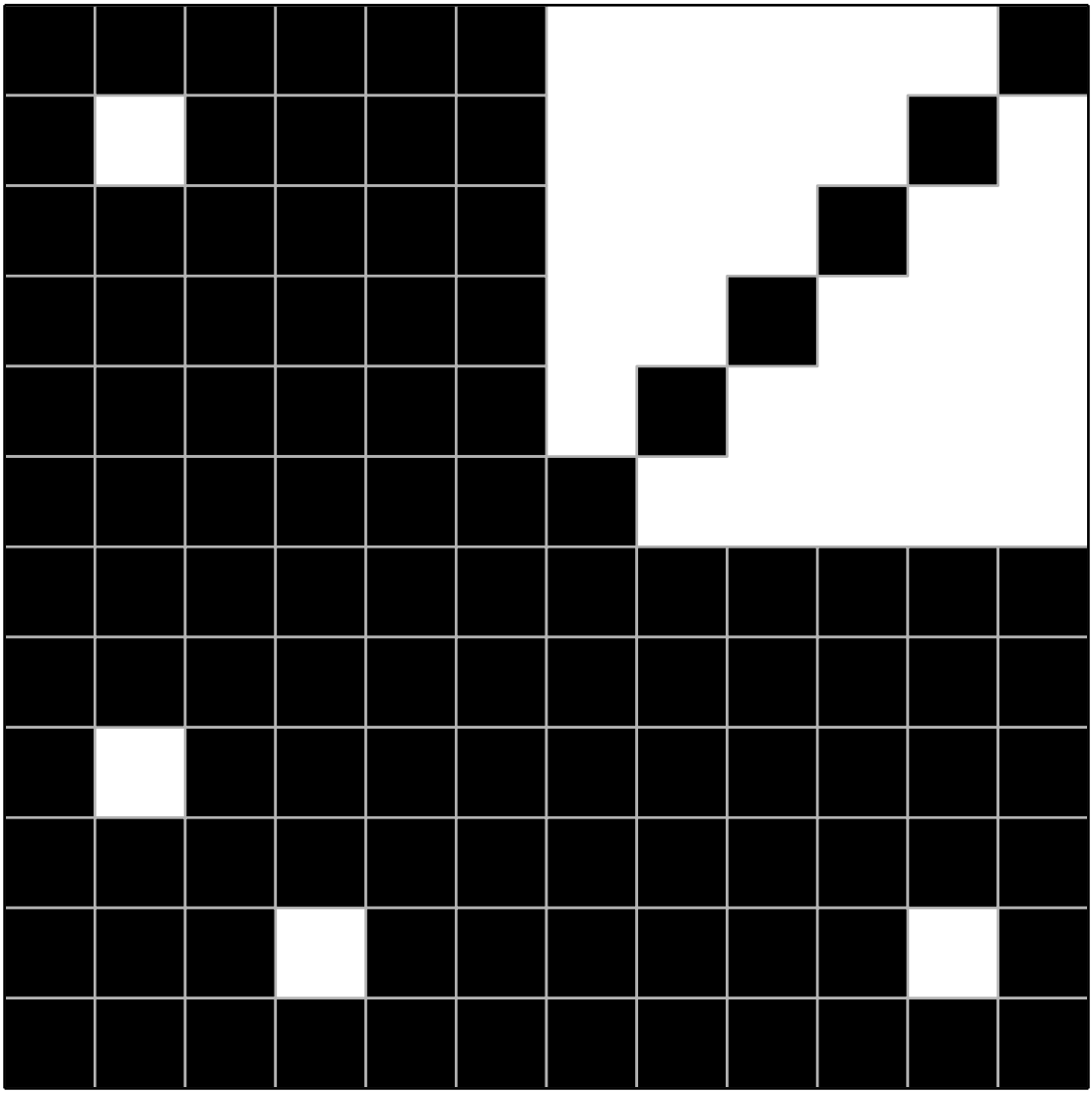


lib3_katsura5-IN 12x12 (110) con: 6, var: 6

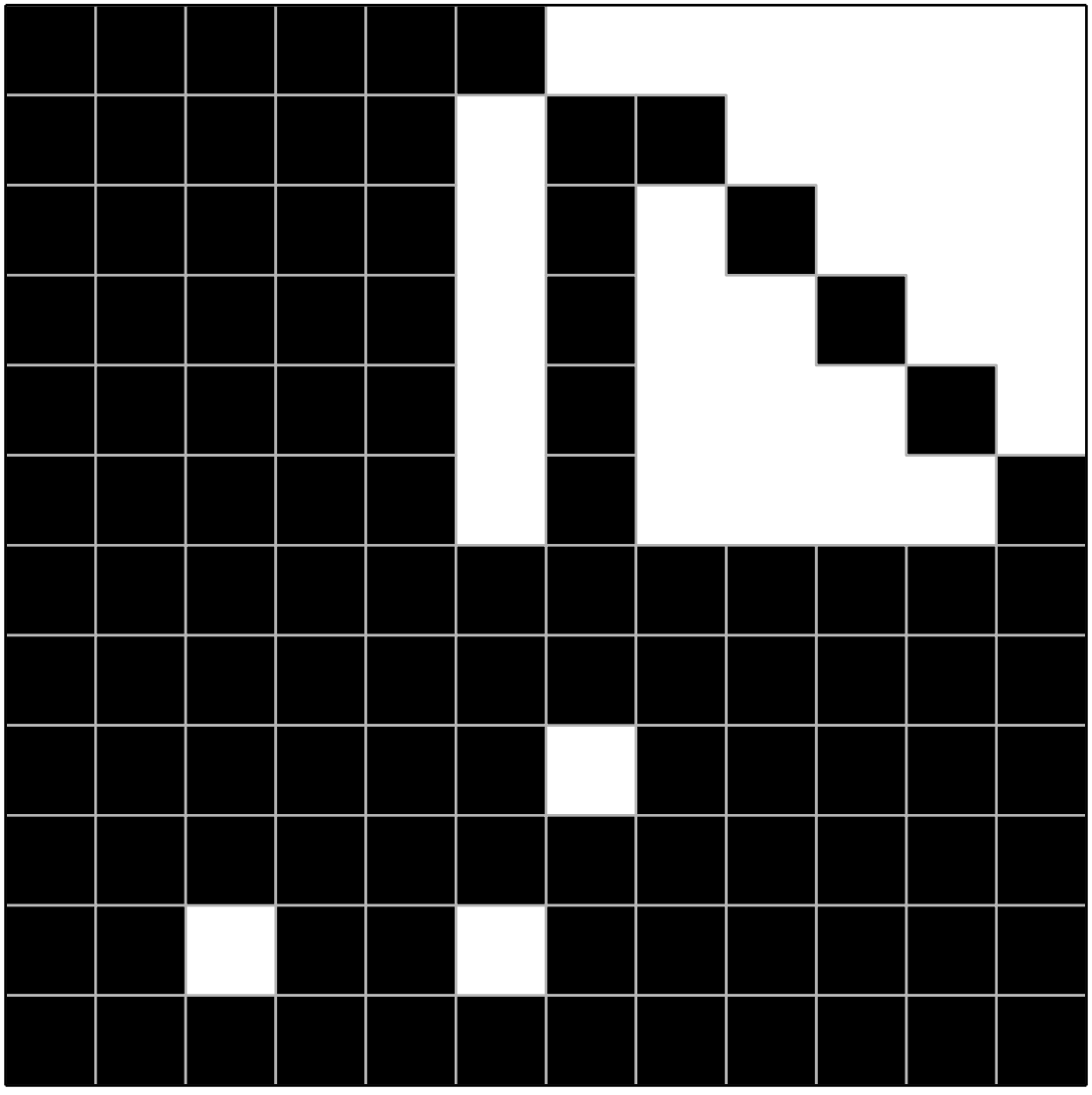



lib3_katsura5-IN, cost: 6, diff: 6, explored: 2, time: 0.00s

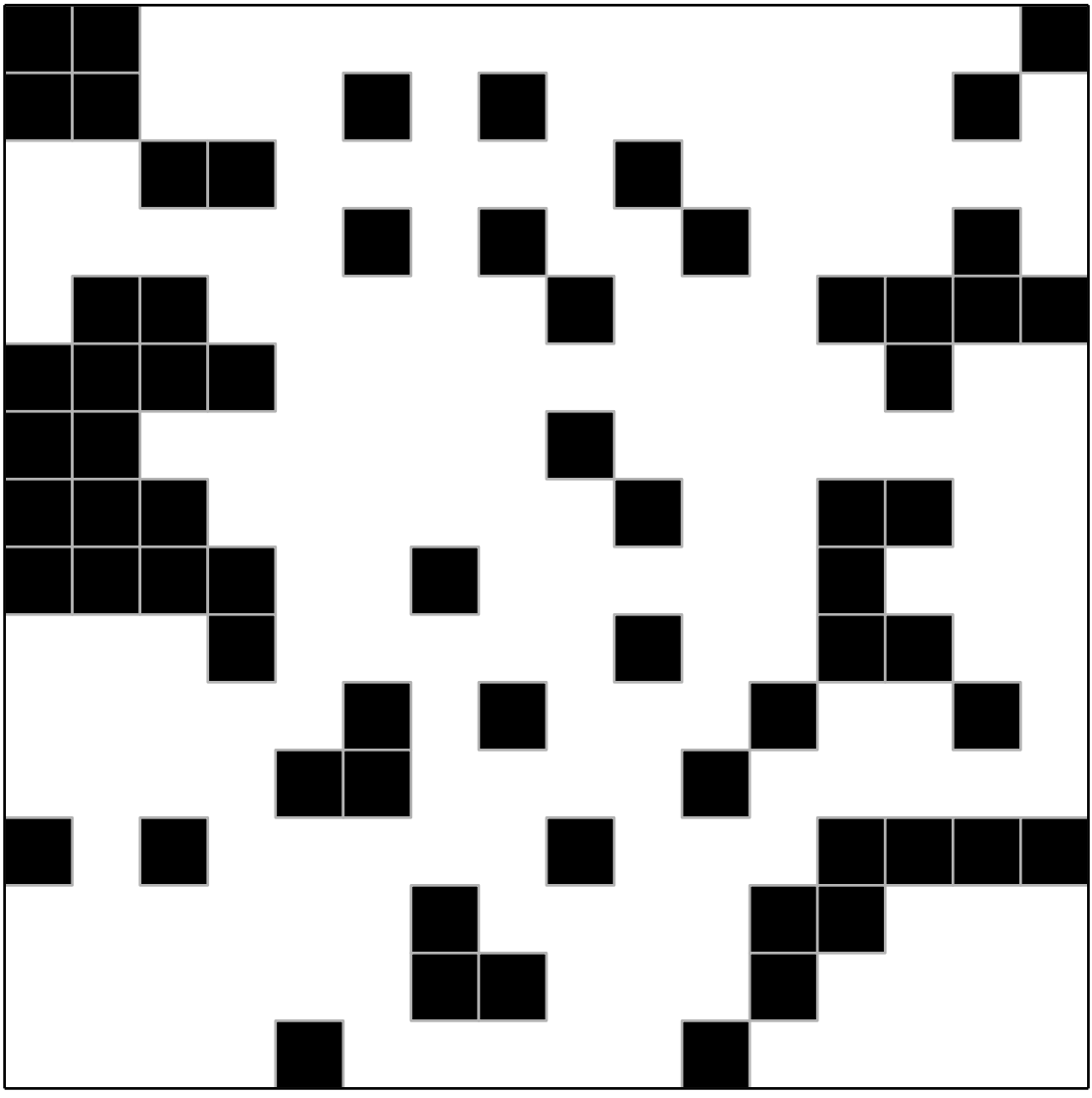
lib3_katsura5-RE 12x12 (110) con: 6, var: 6

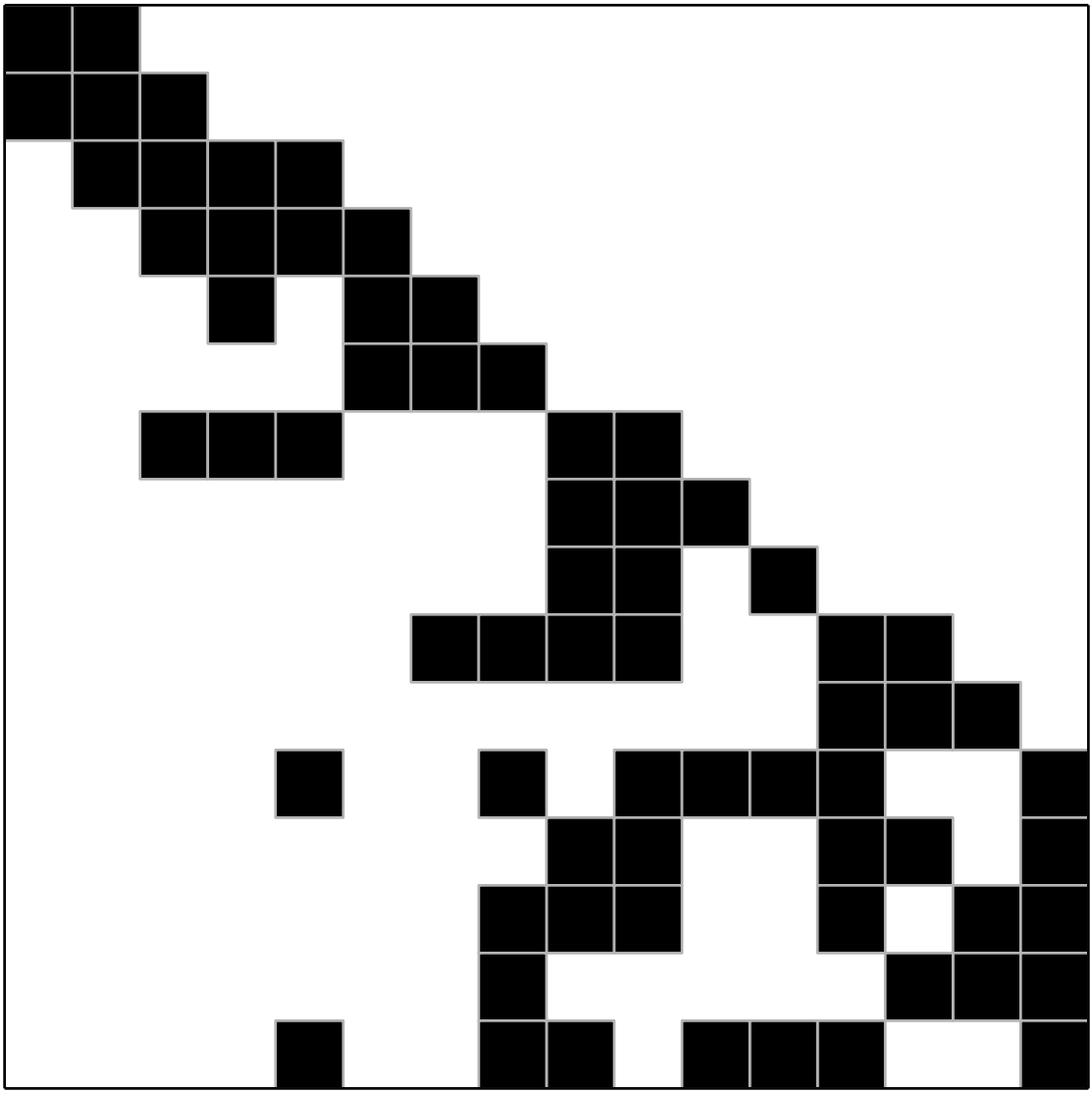


lib3_katsura5-RE, cost: 6, diff: 6, explored: 2, time: 0.00s

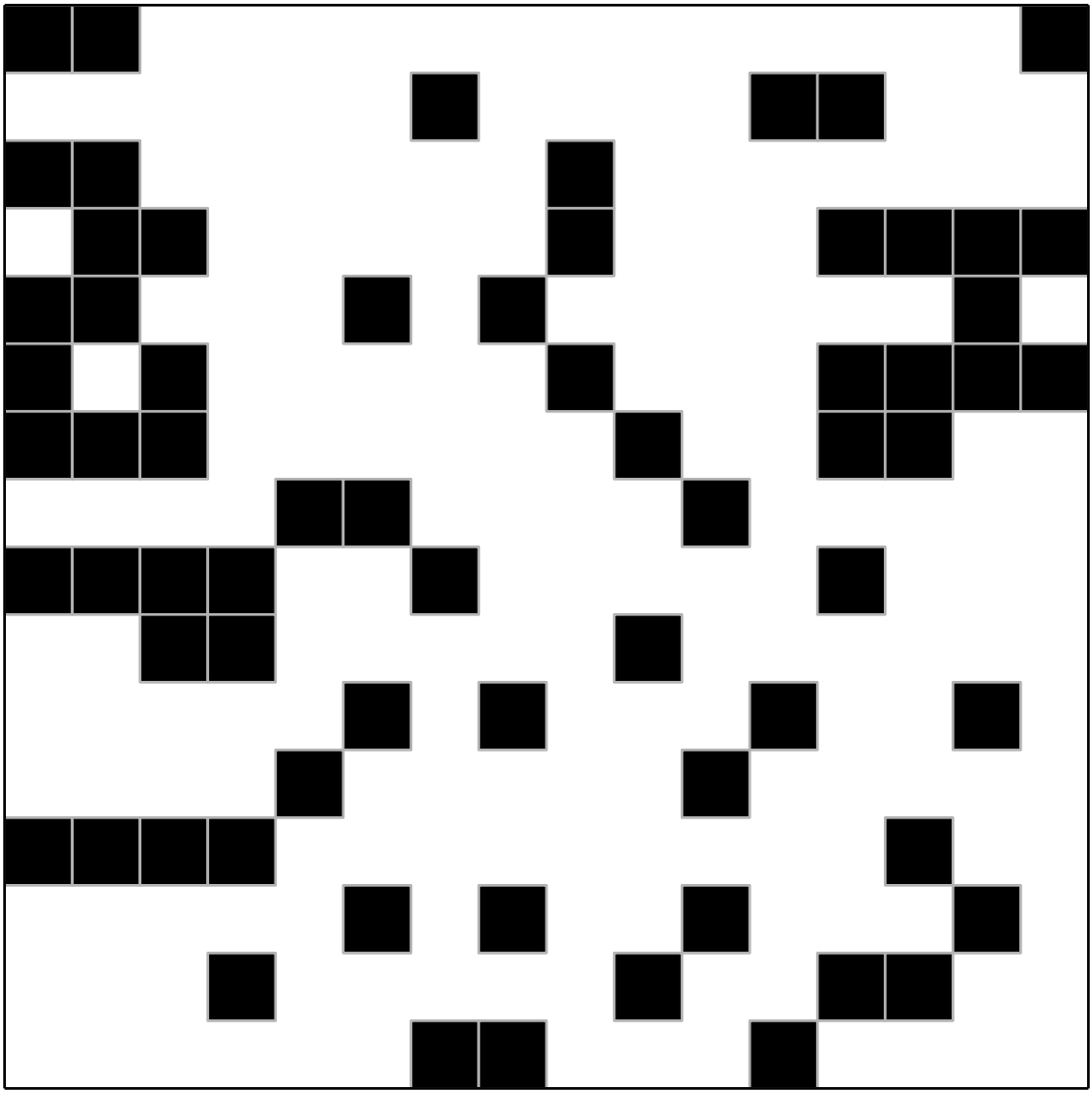


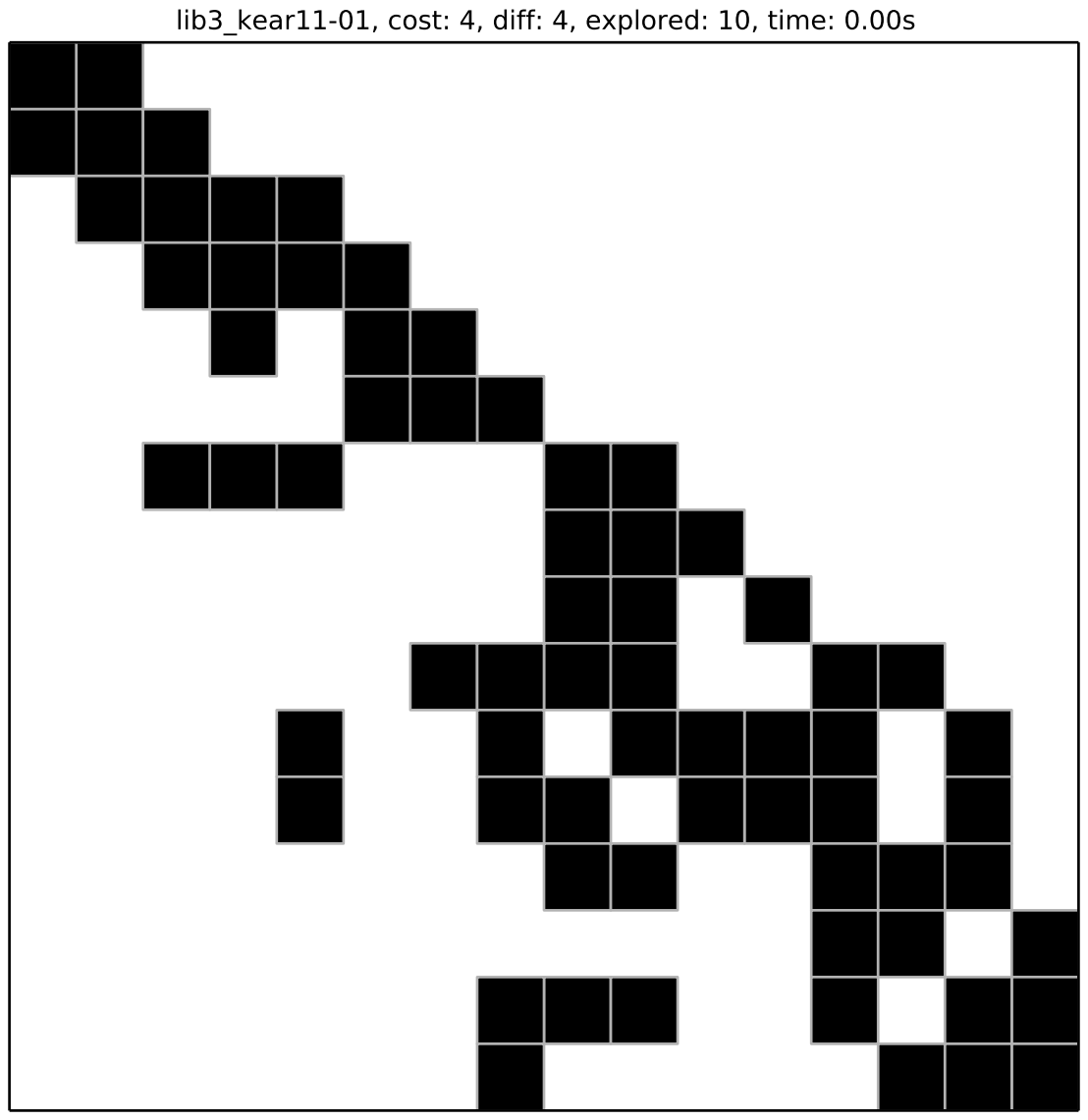
lib3_kear11-00 16x16 (68) con: 8, var: 8




lib3_kear11-00, cost: 4, diff: 4, explored: 10, time: 0.00s

lib3_kear11-01 16x16 (68) con: 8, var: 8

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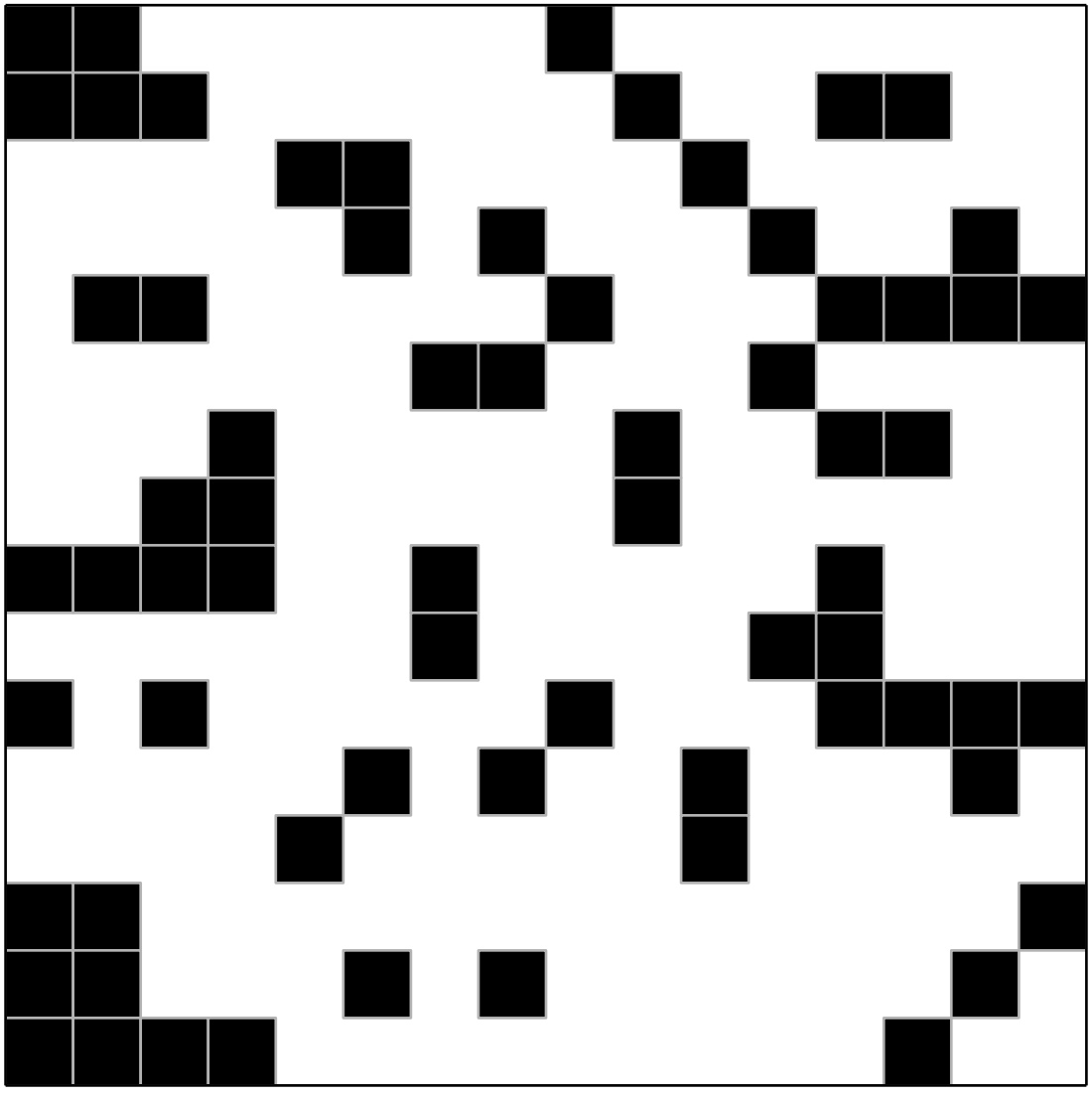
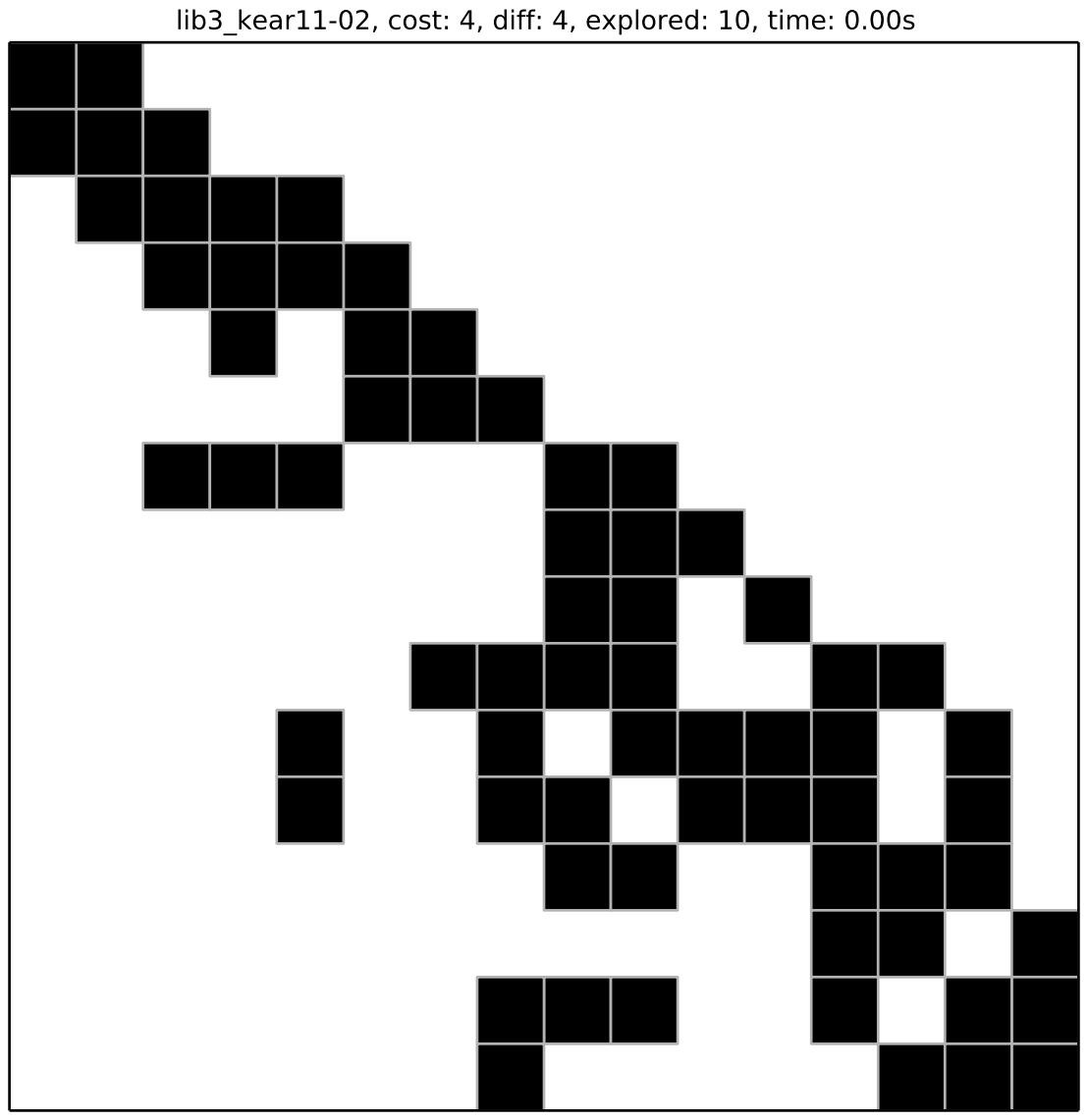
lib3_kear11-02 16x16 (68) con: 8, var: 8

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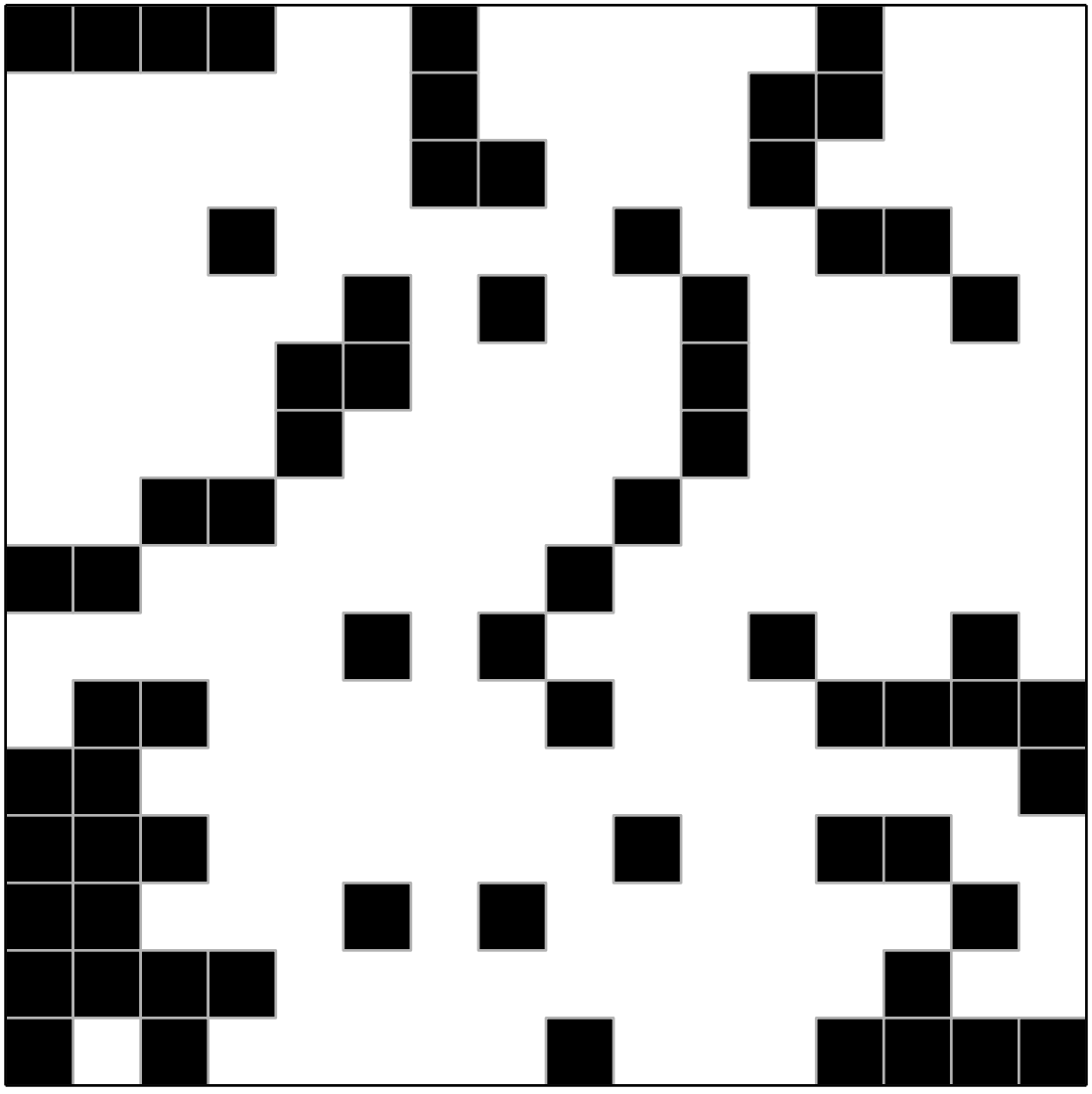
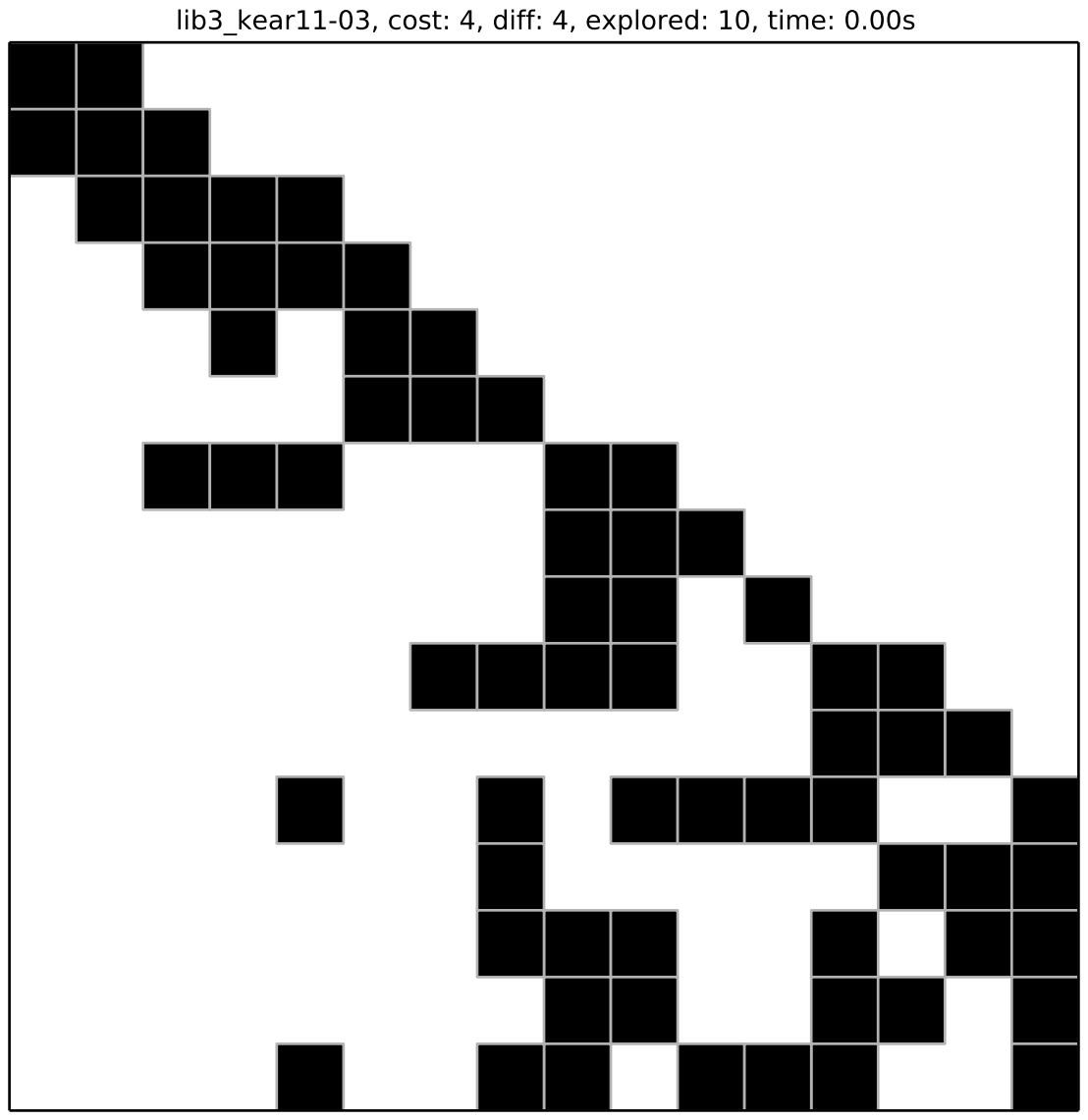
lib3_kear11-03 16x16 (68) con: 8, var: 8

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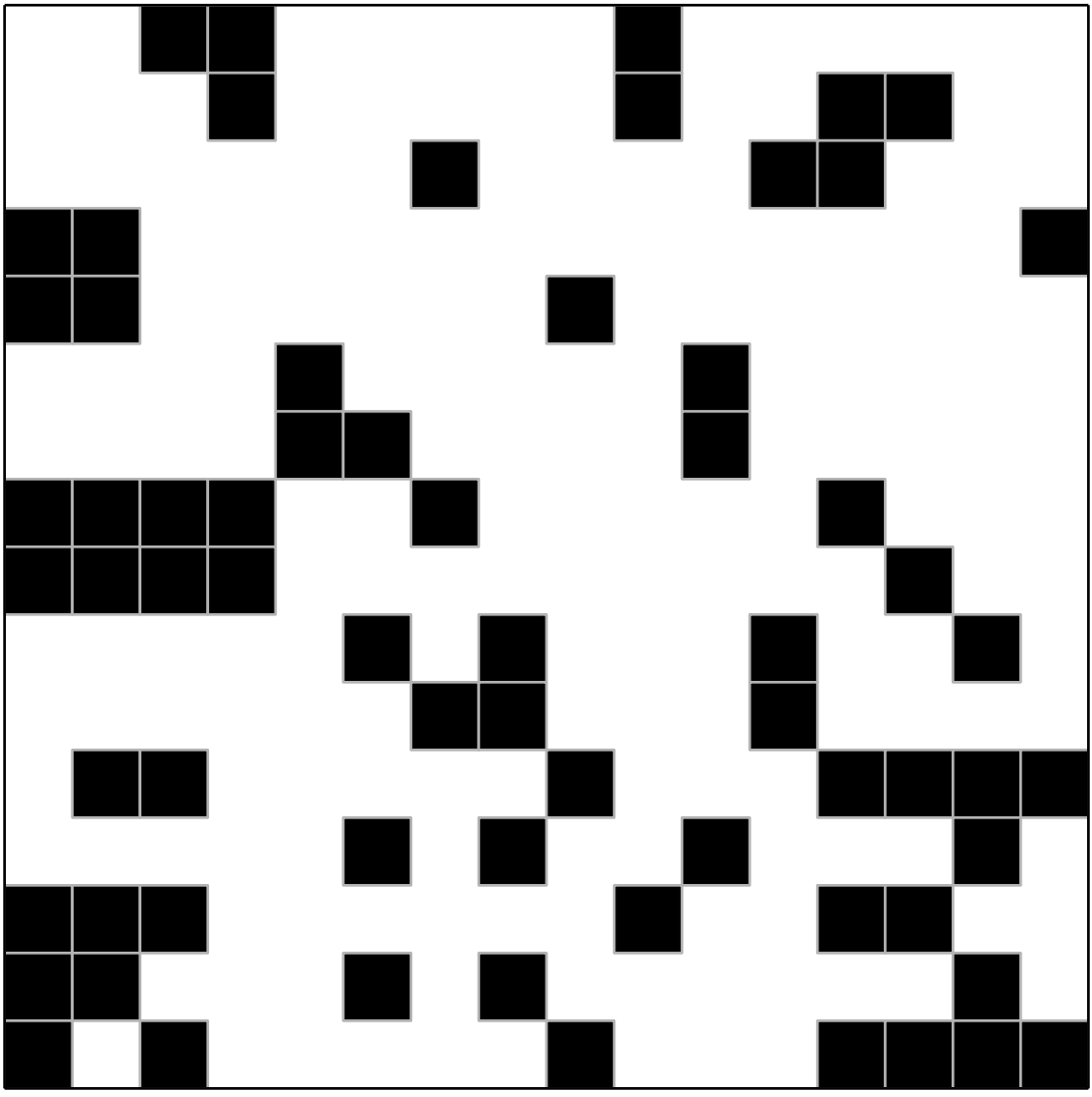
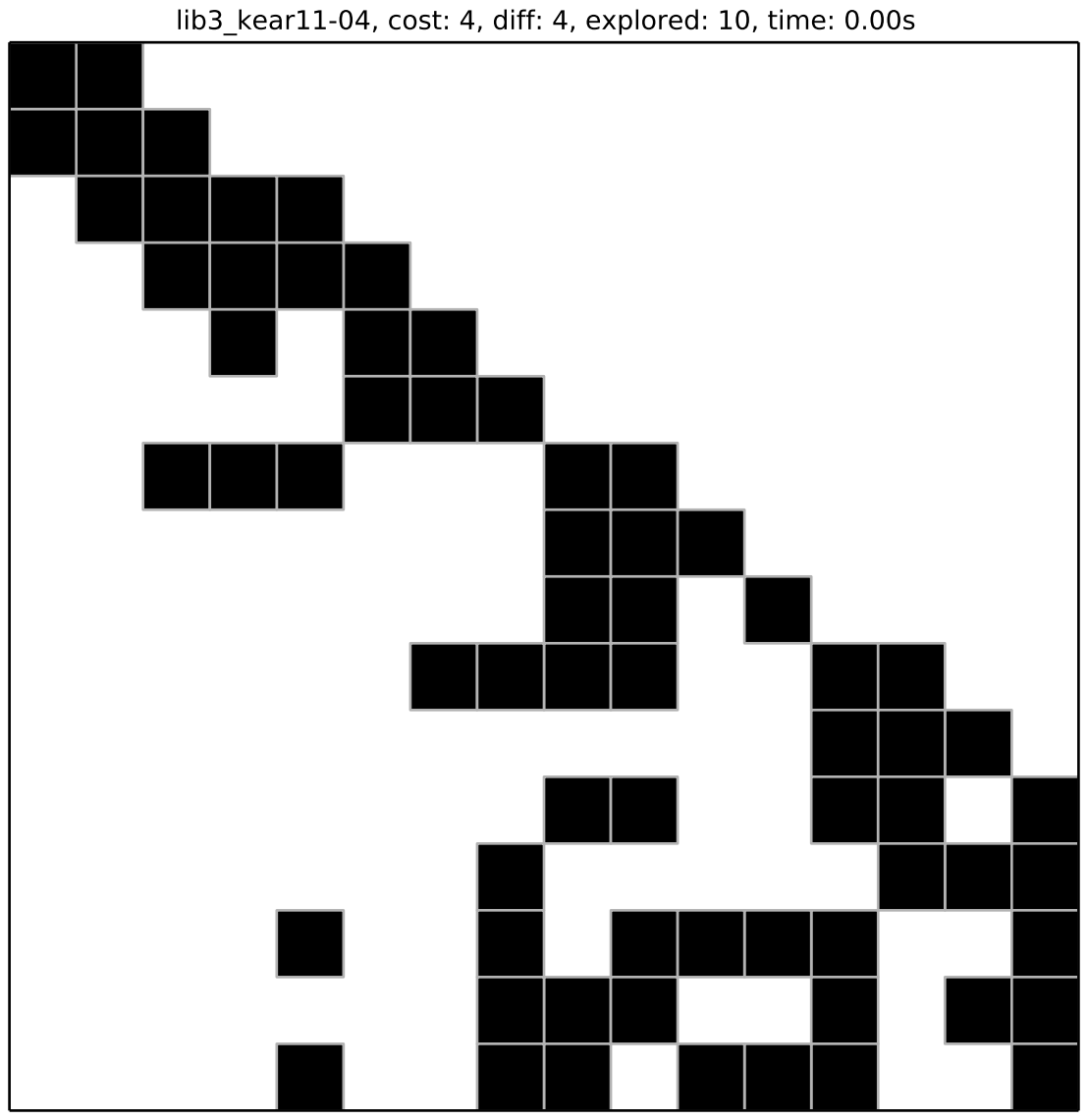
lib3_kear11-04 16x16 (68) con: 8, var: 8

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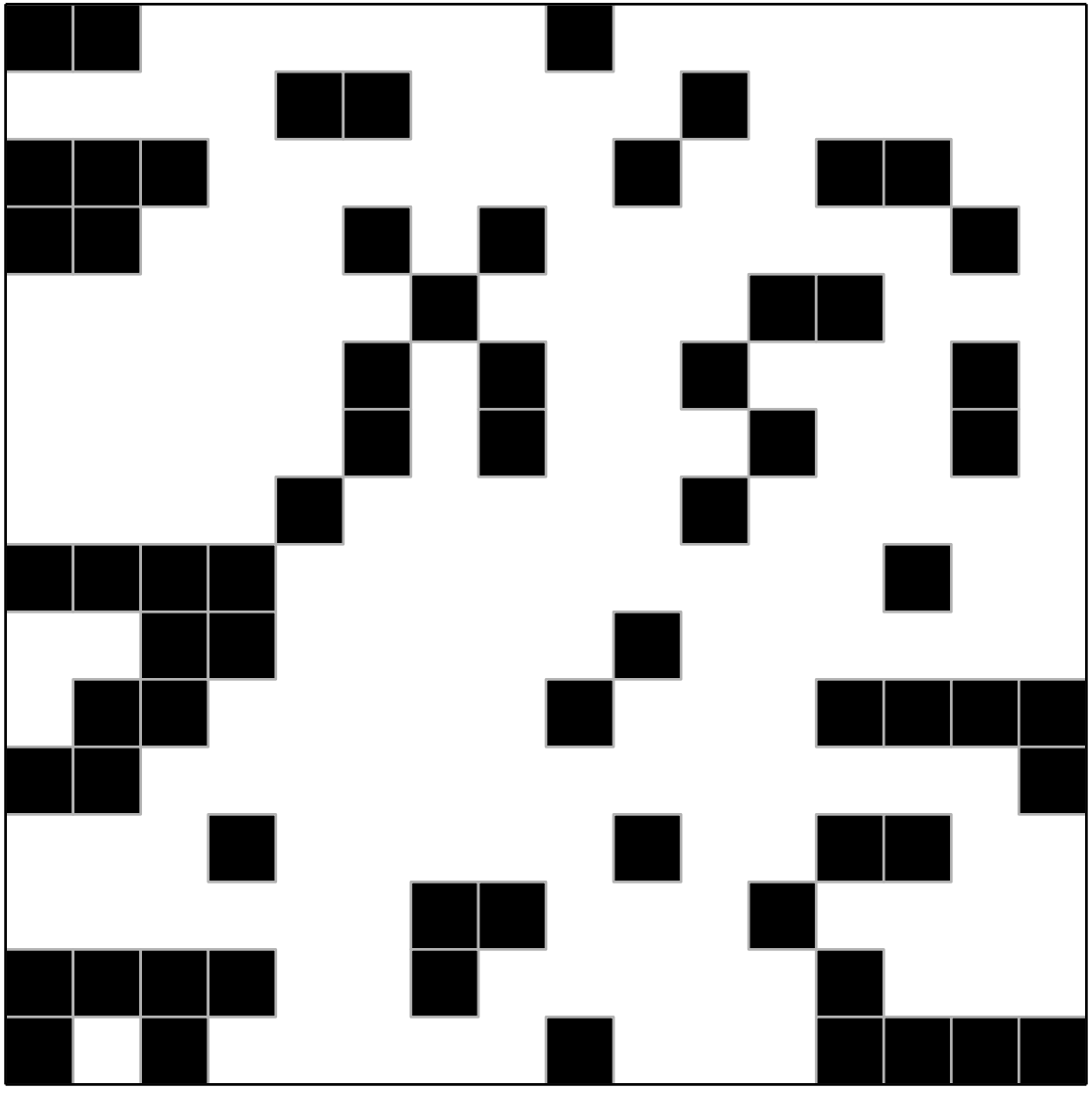
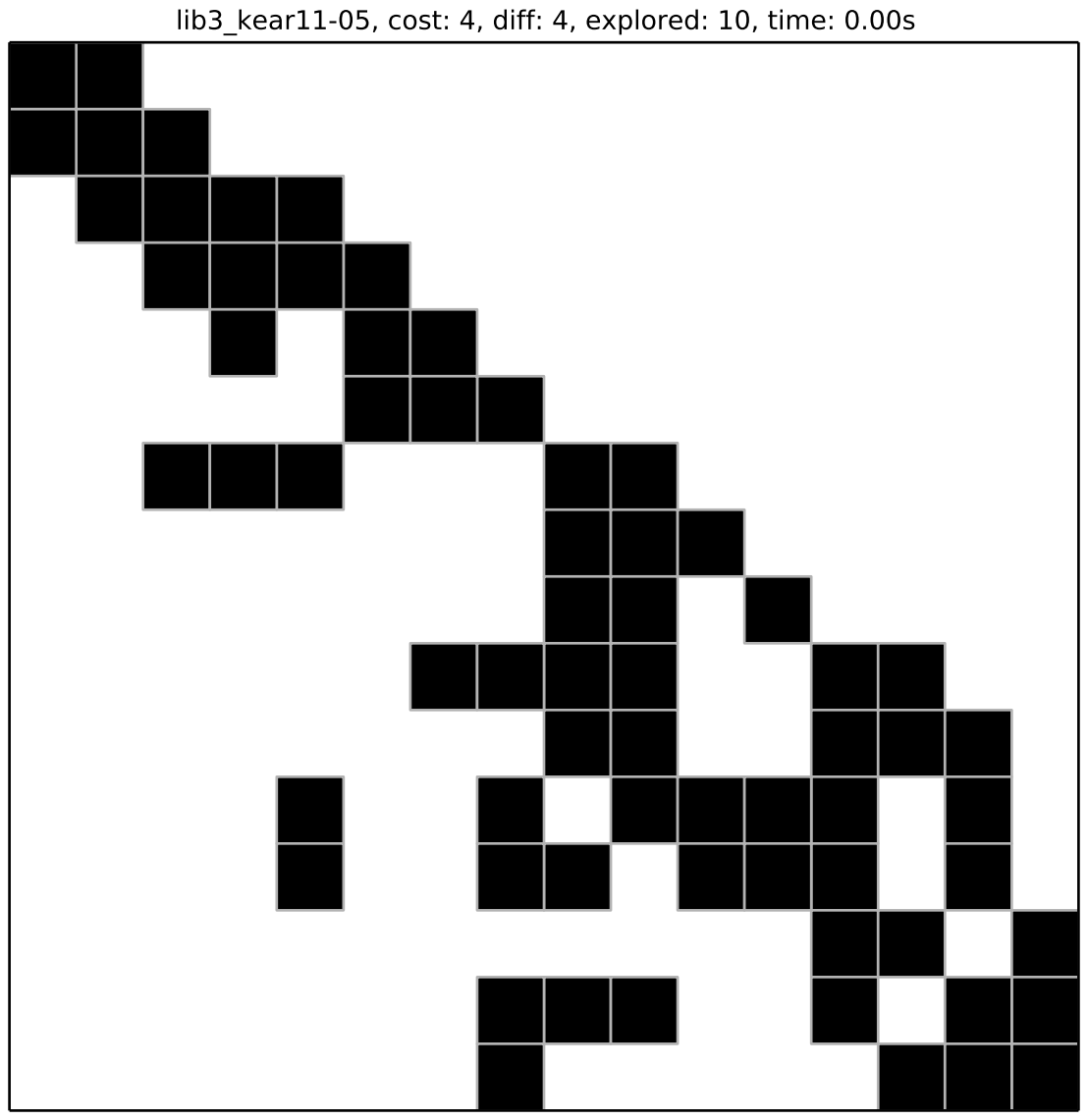
lib3_kear11-05 16x16 (68) con: 8, var: 8

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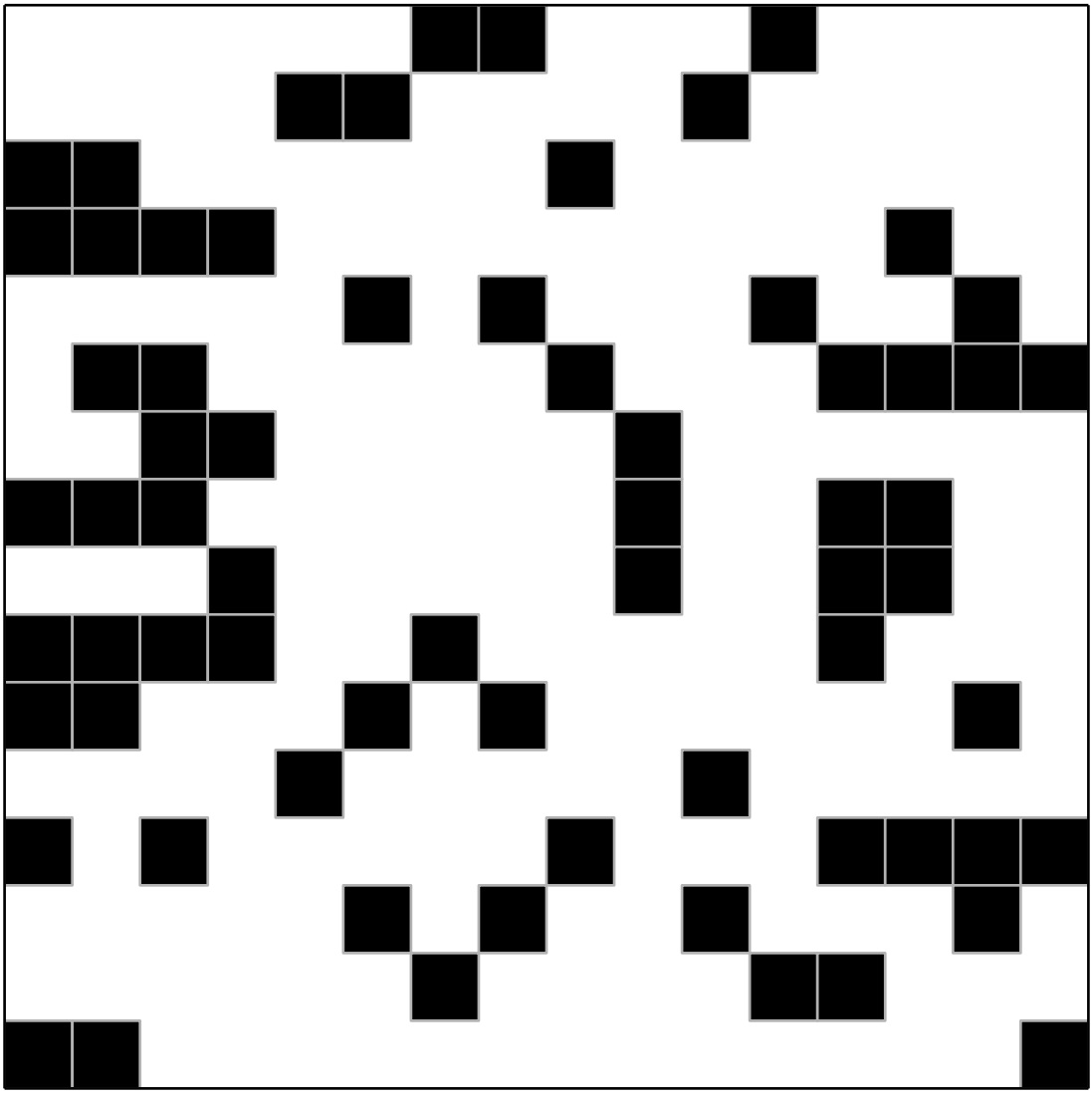
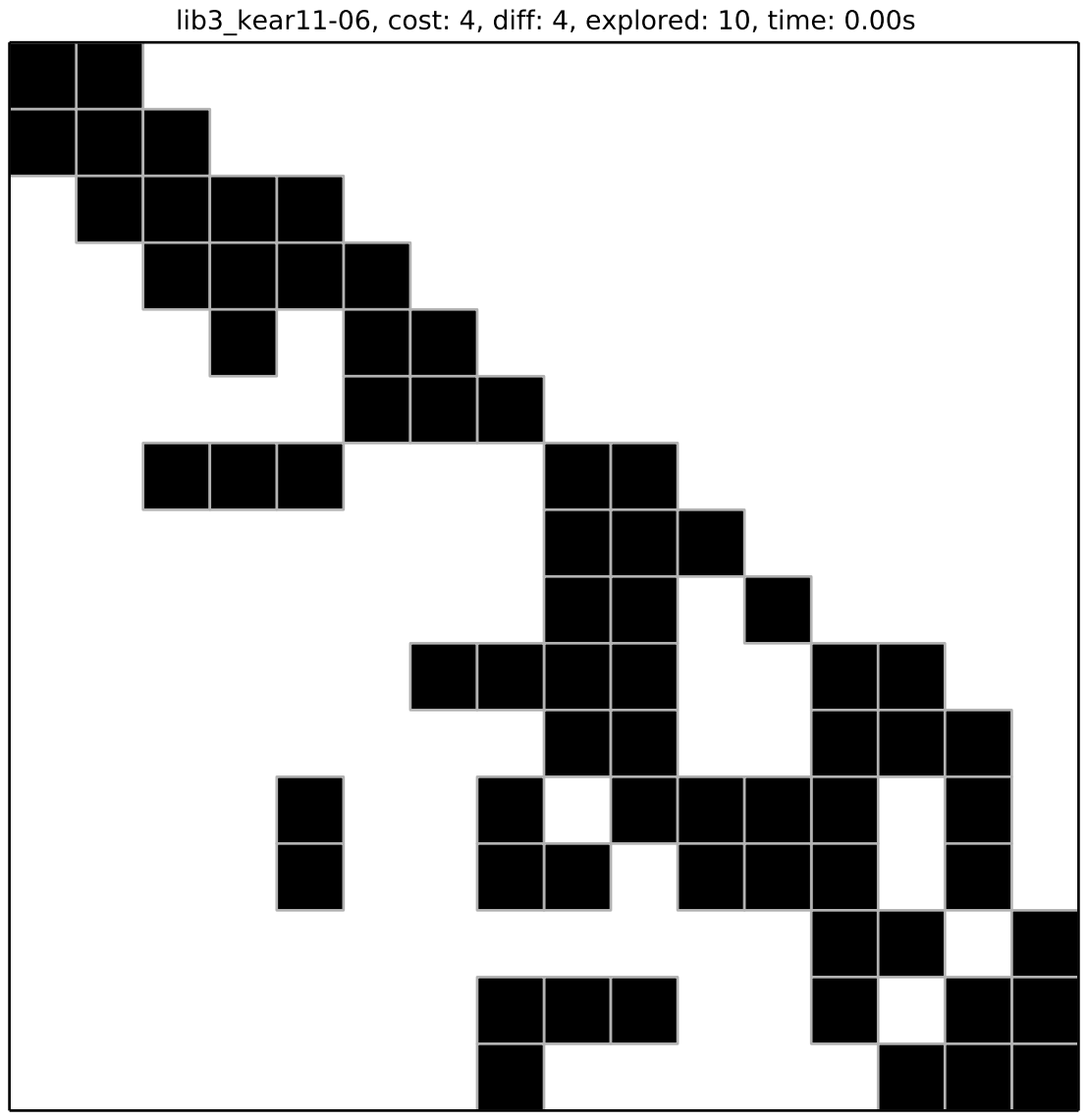
lib3_kear11-06 16x16 (68) con: 8, var: 8

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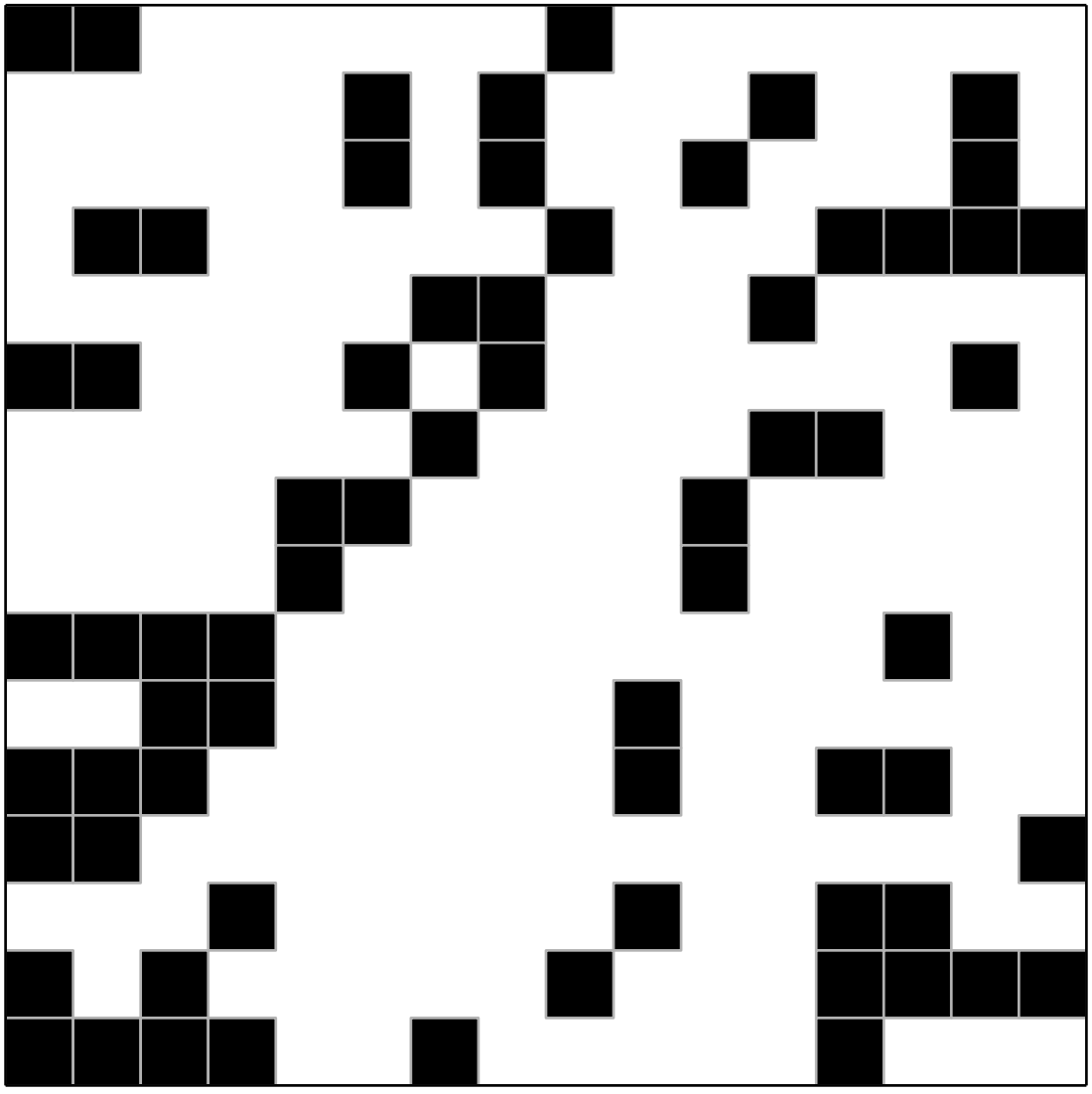
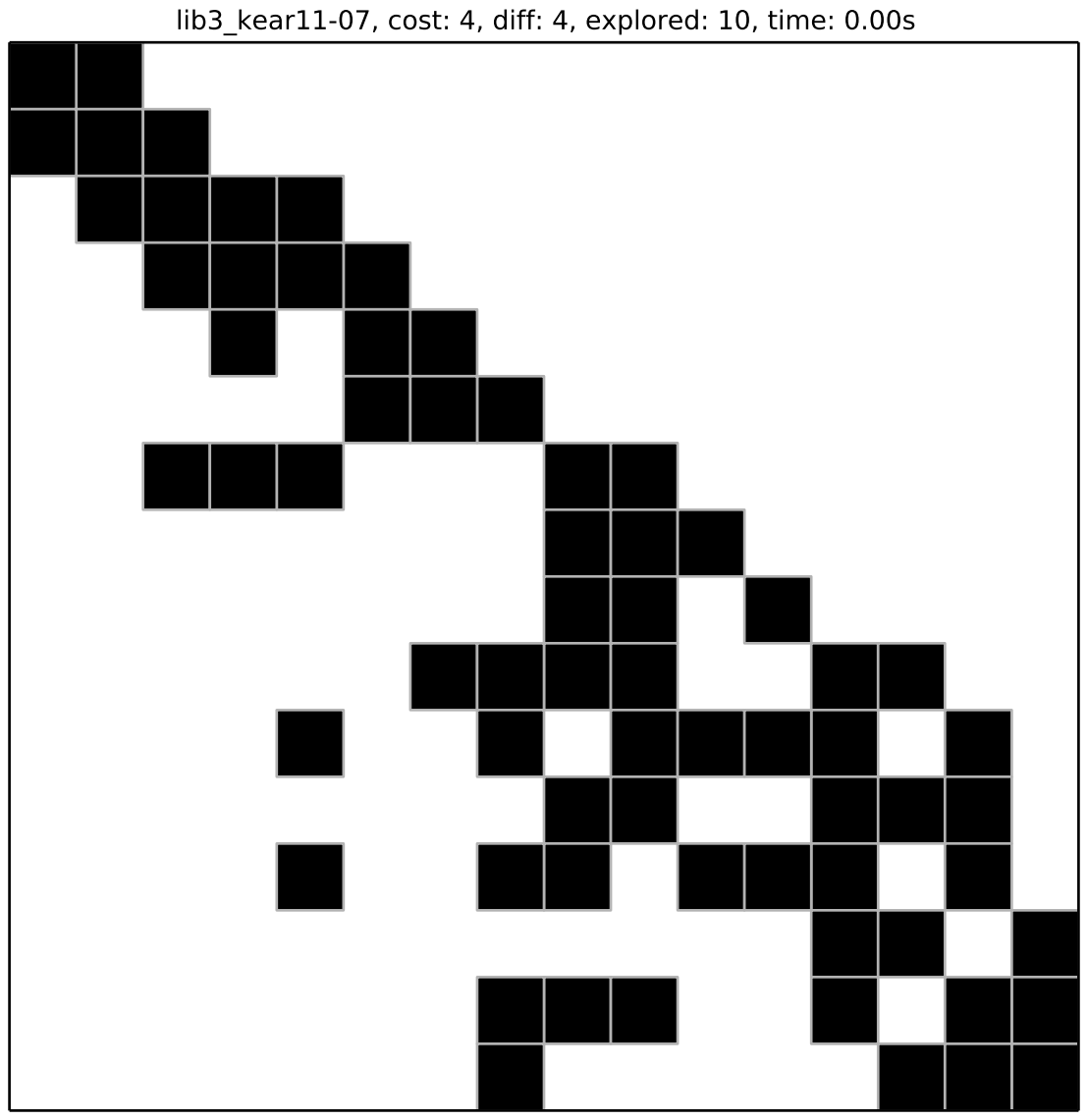
lib3_kear11-07 16x16 (68) con: 8, var: 8

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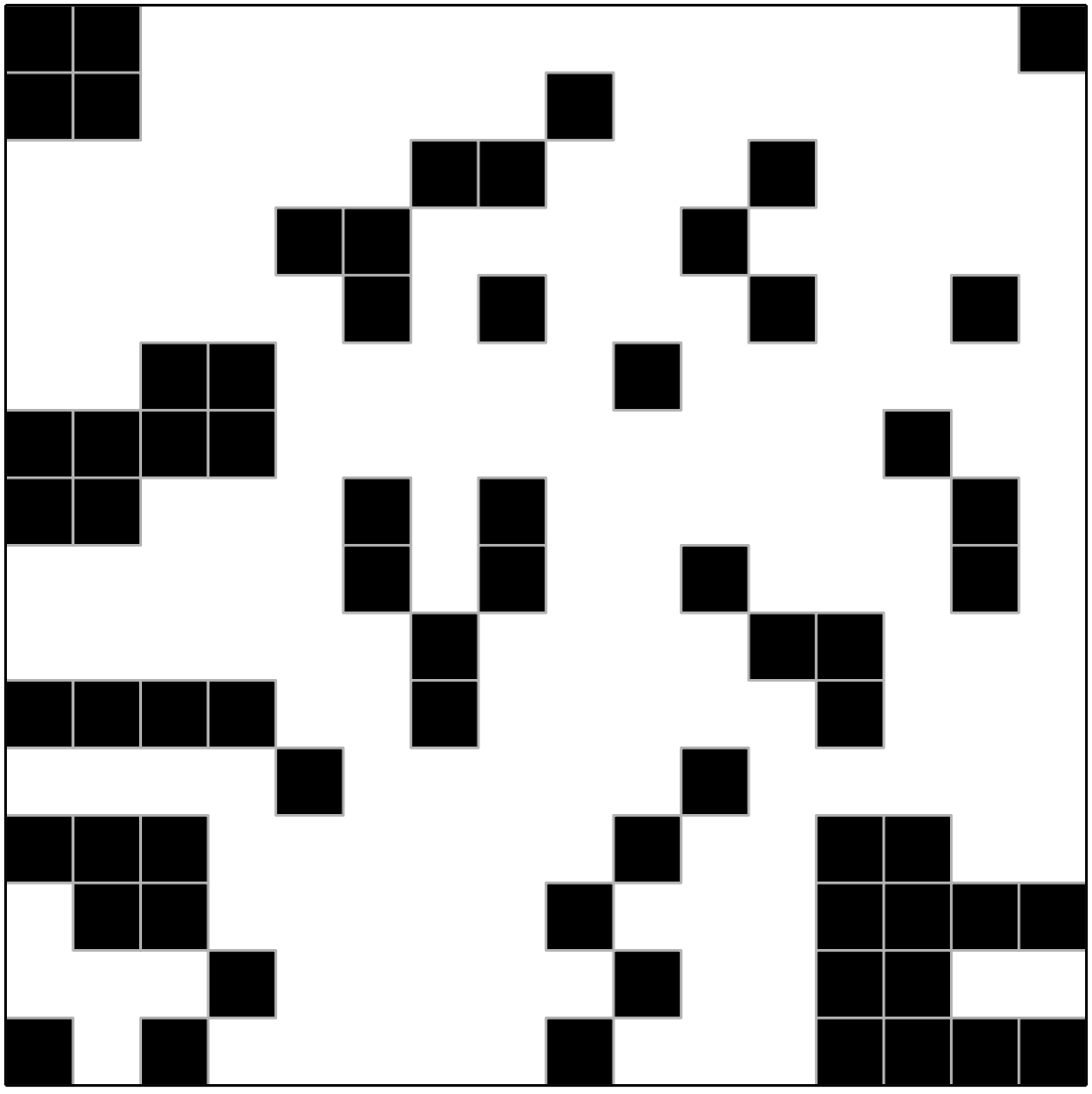
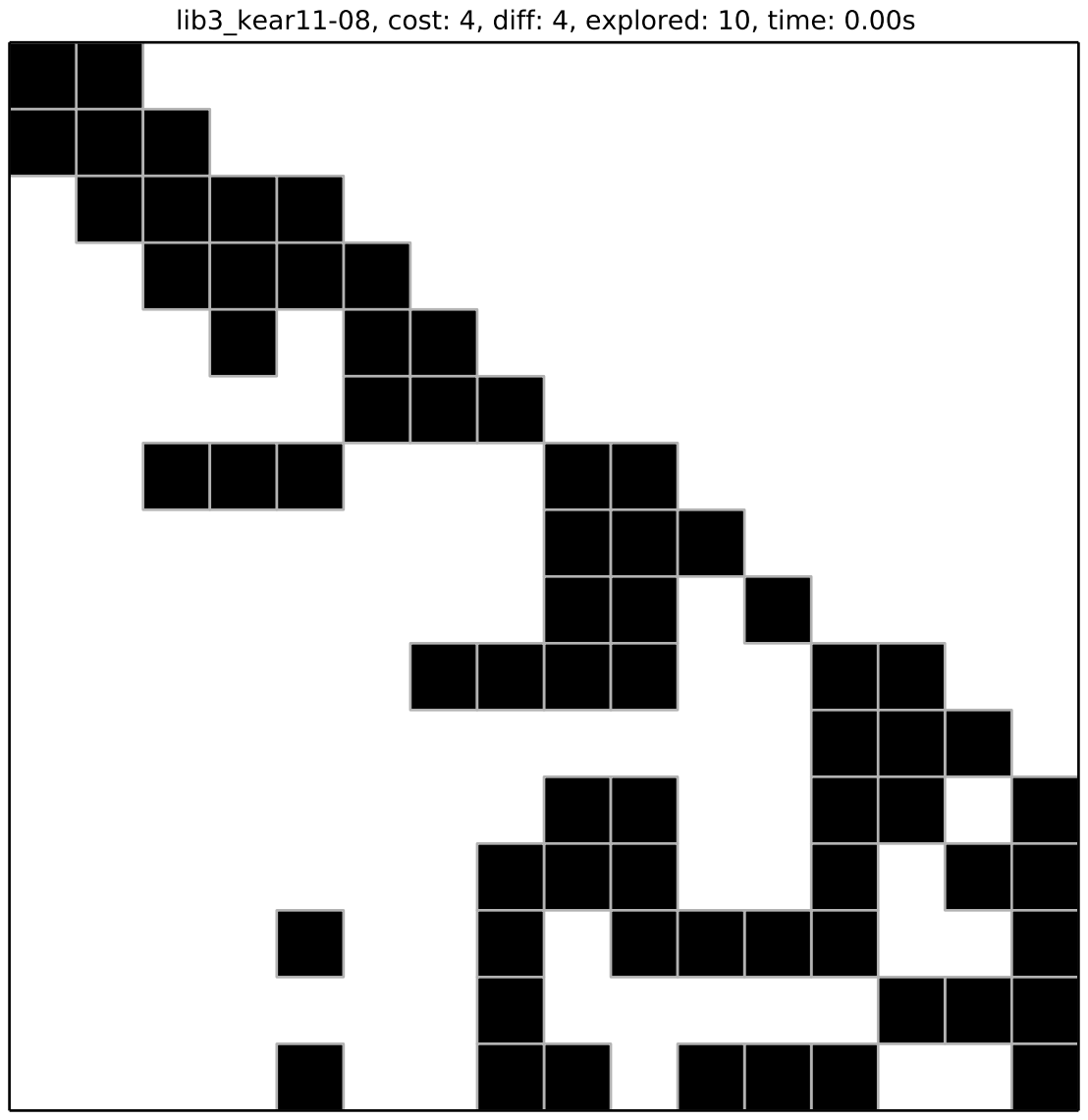
lib3_kear11-08 16x16 (68) con: 8, var: 8

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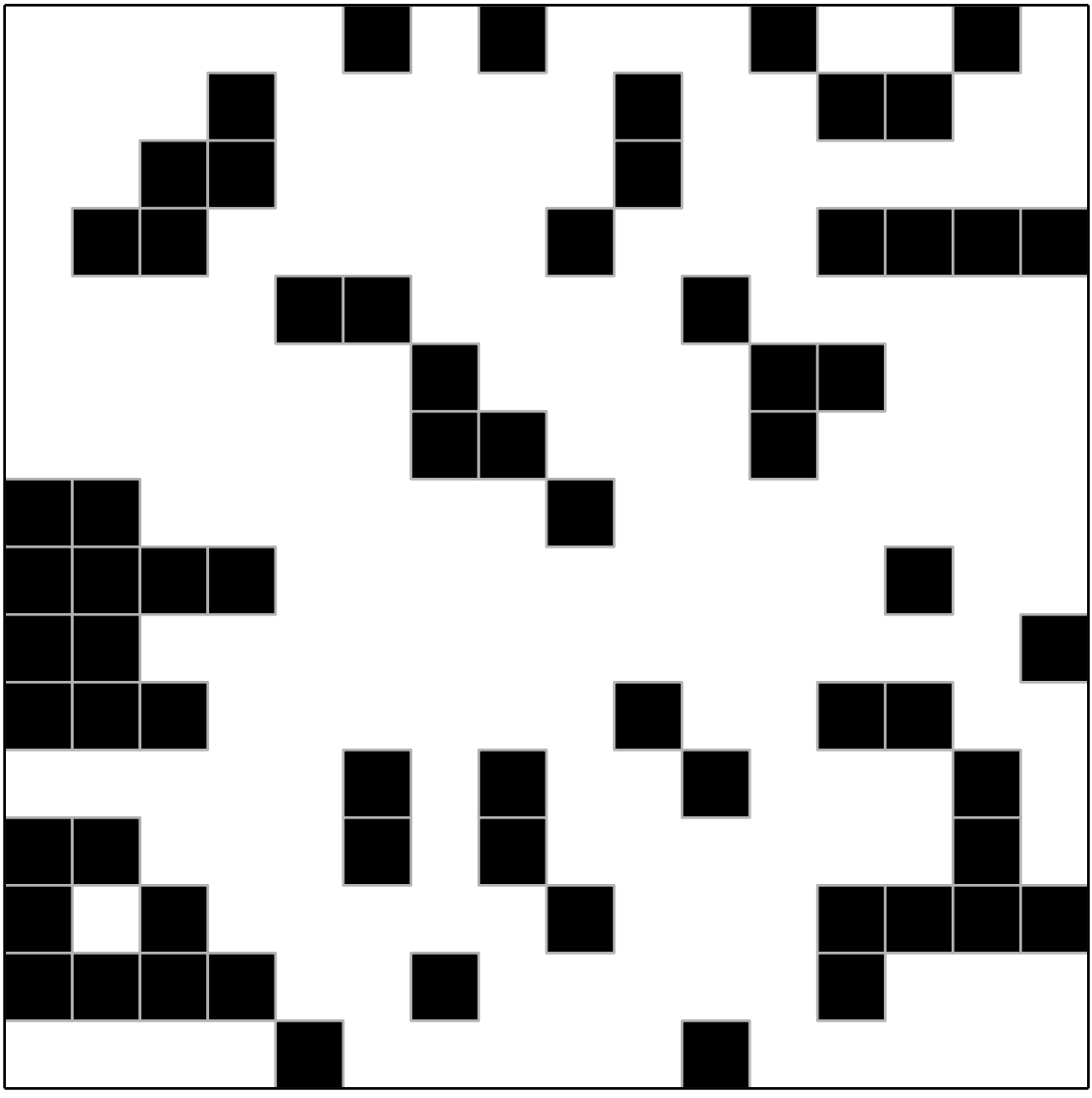
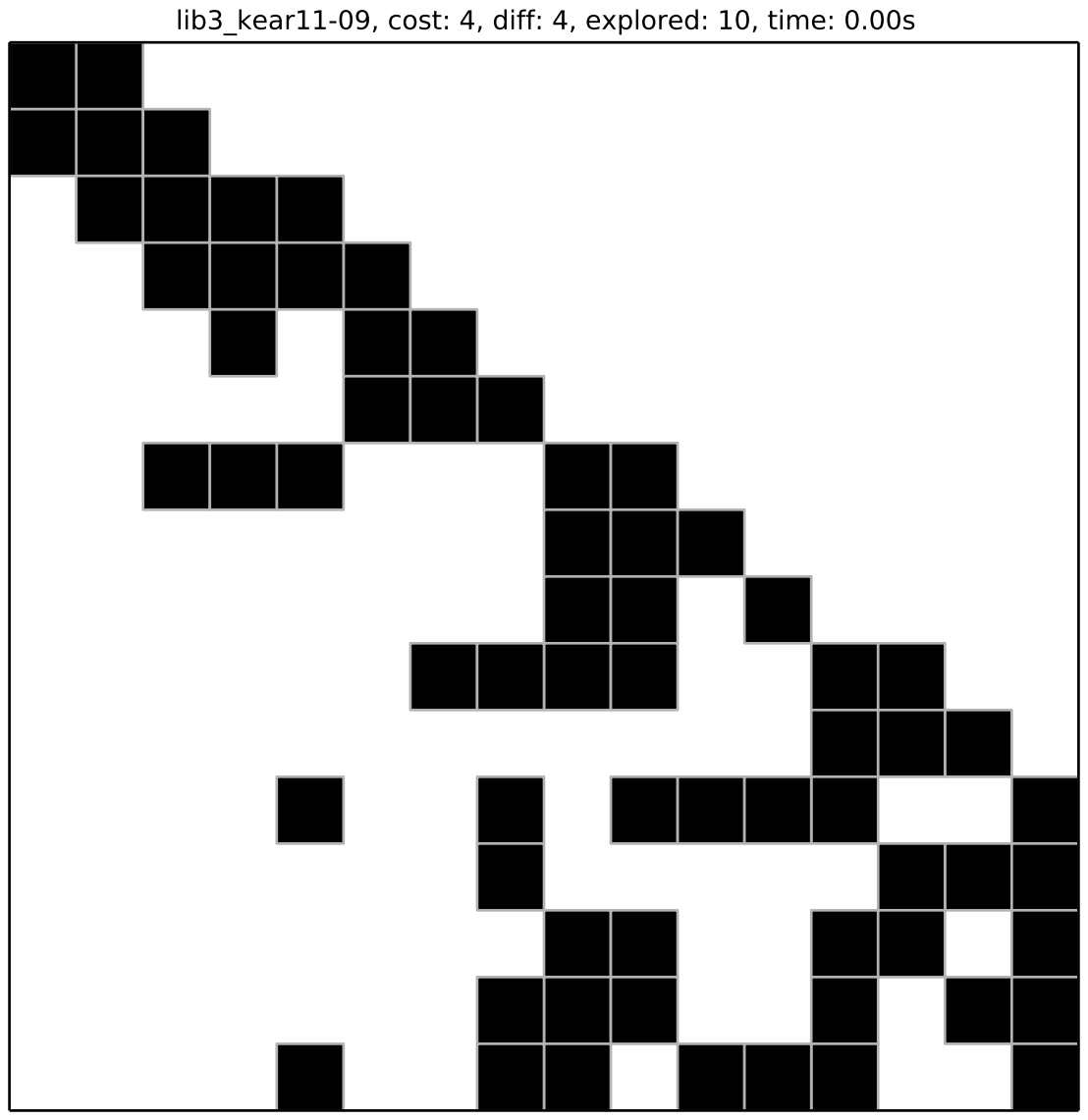
lib3_kear11-09 16x16 (68) con: 8, var: 8

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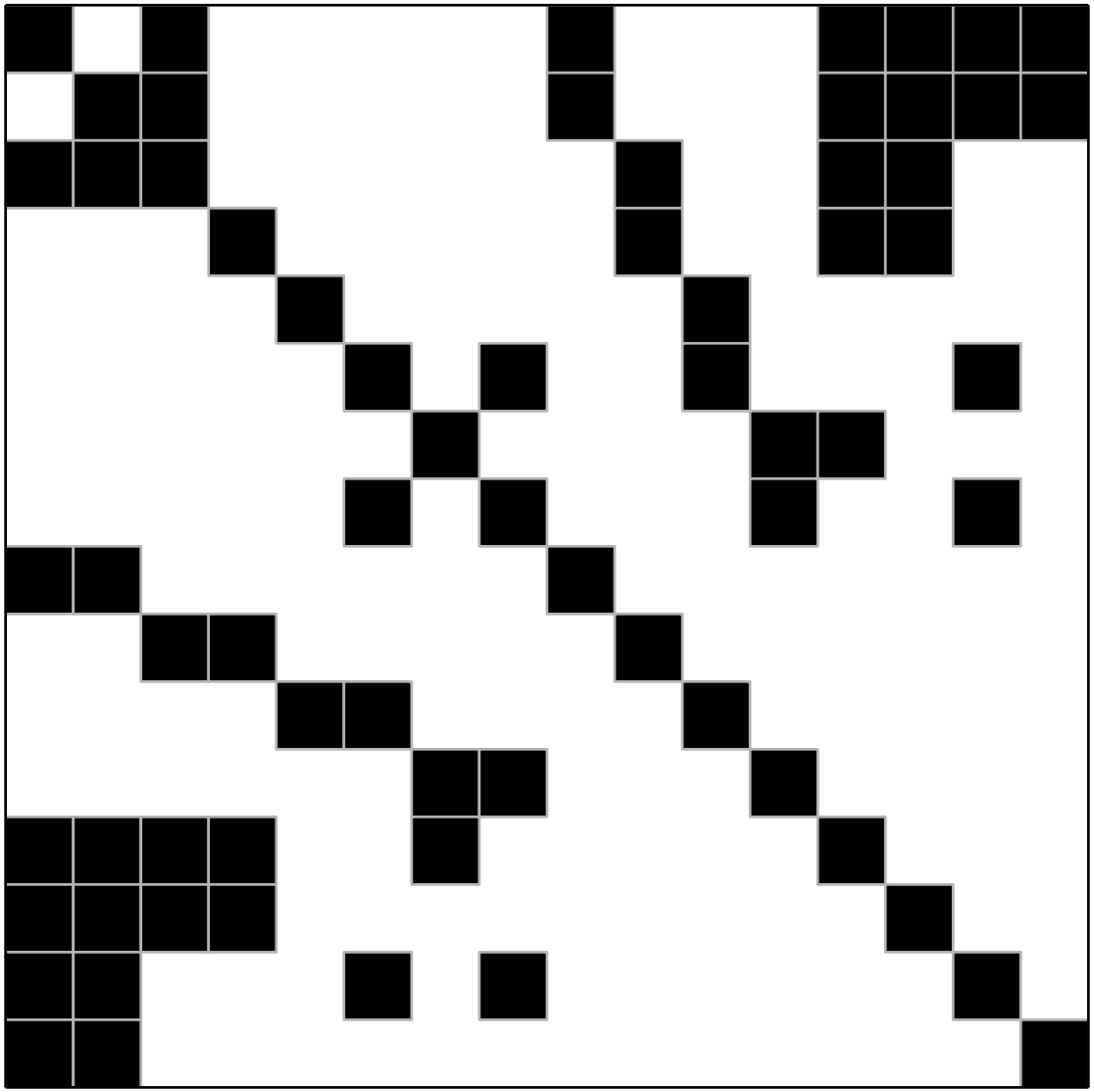
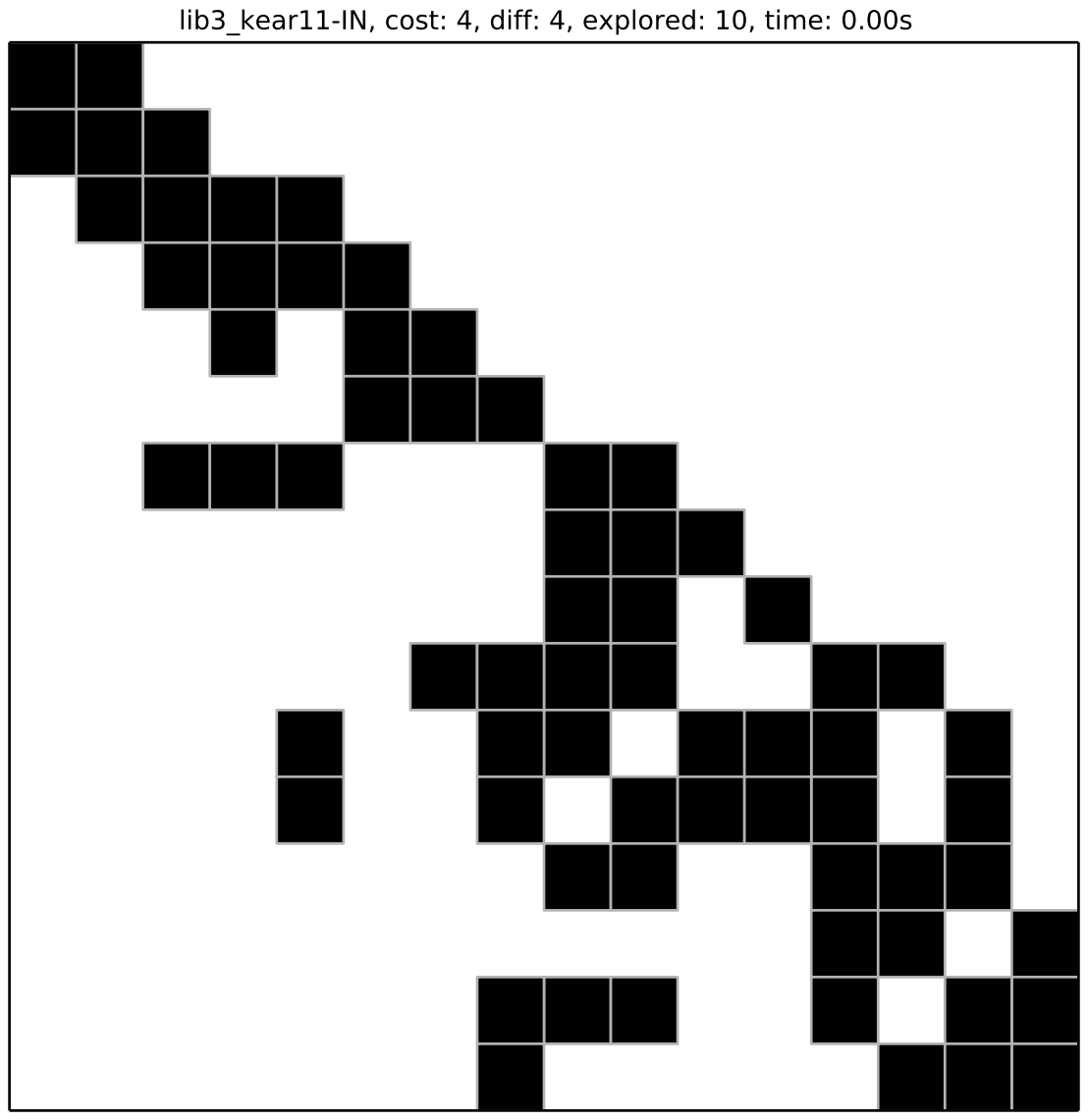
lib3_kear11-IN 16x16 (68) con: 8, var: 8

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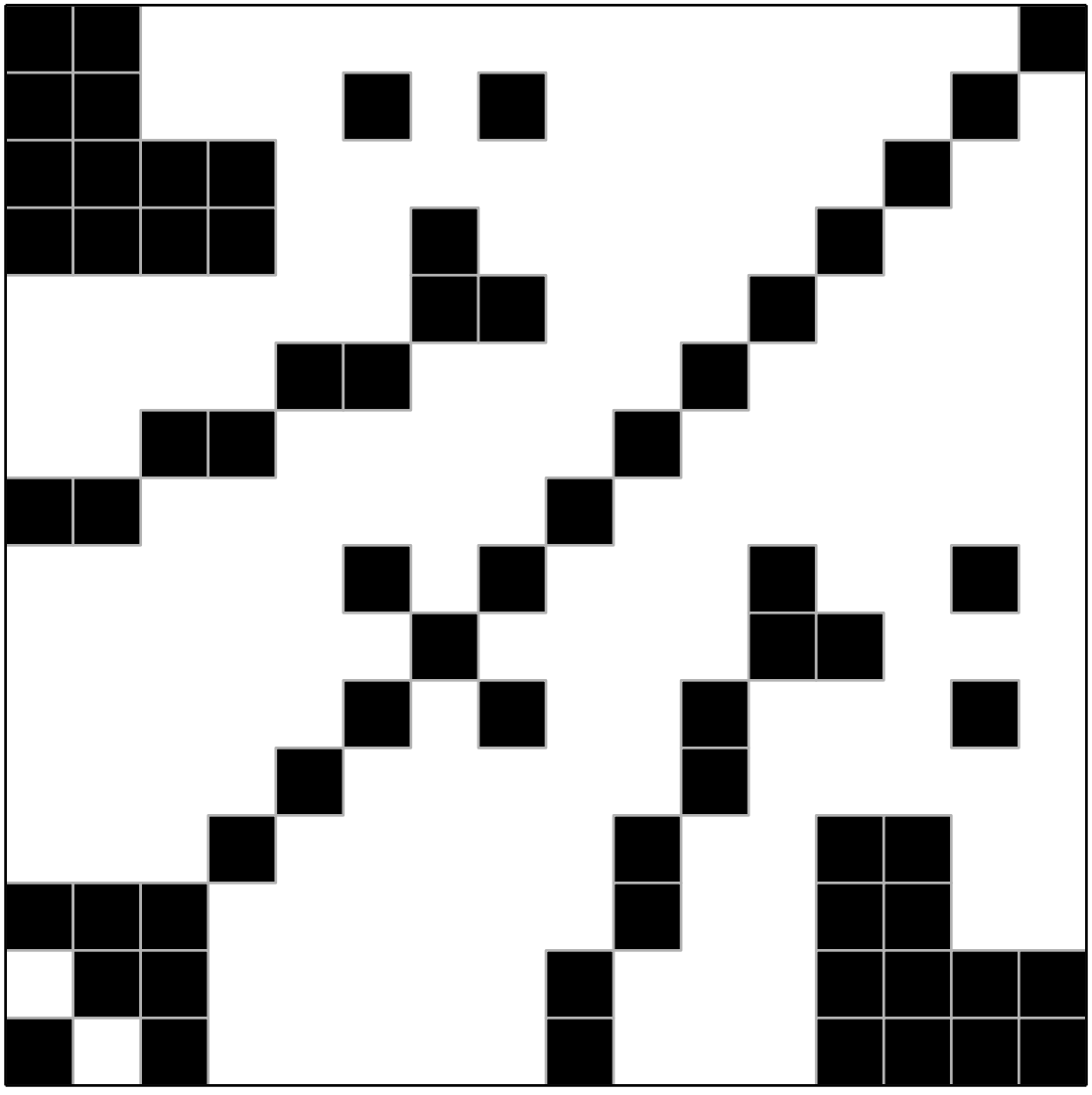
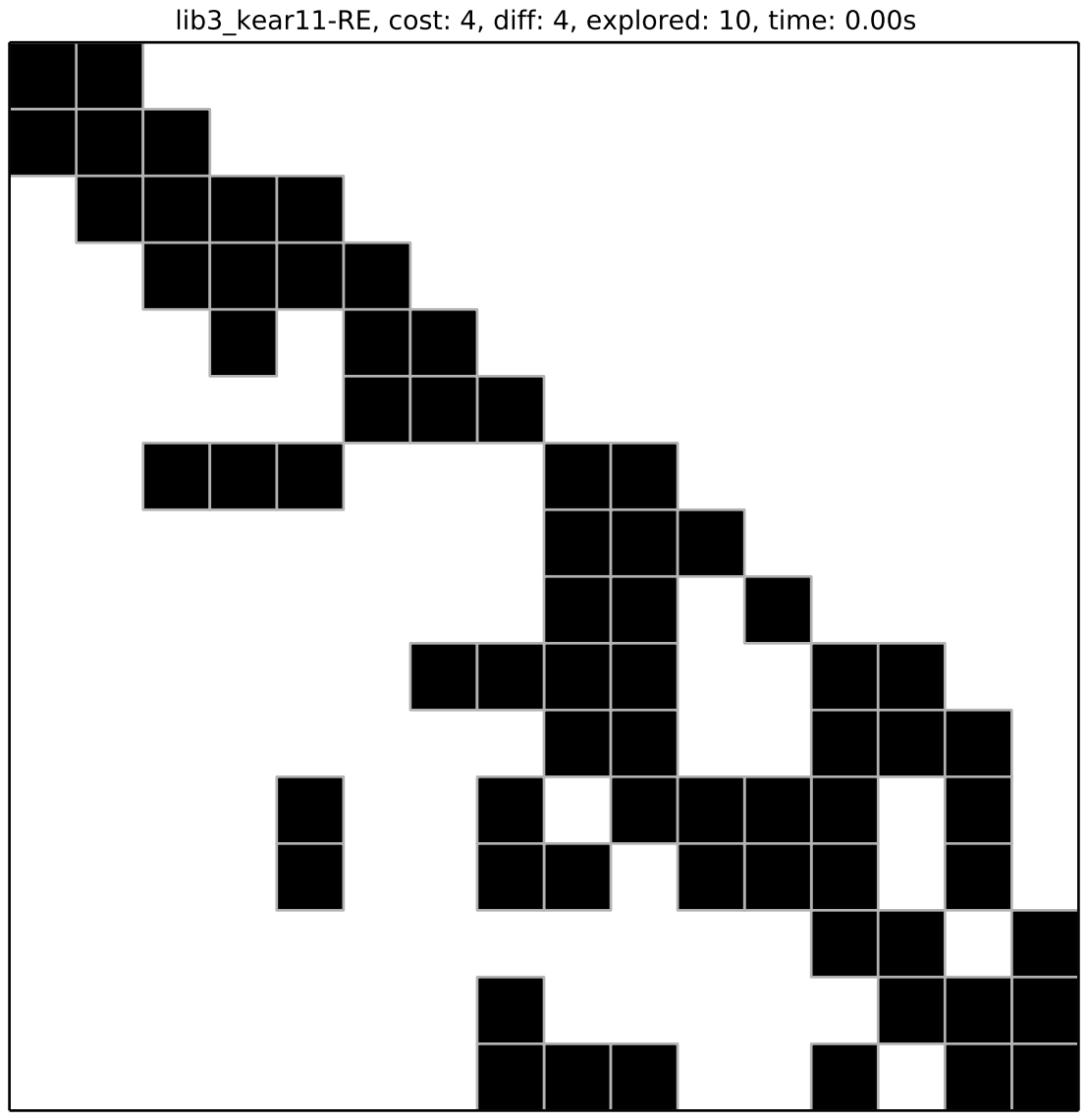
lib3_kear11-RE 16x16 (68) con: 8, var: 8

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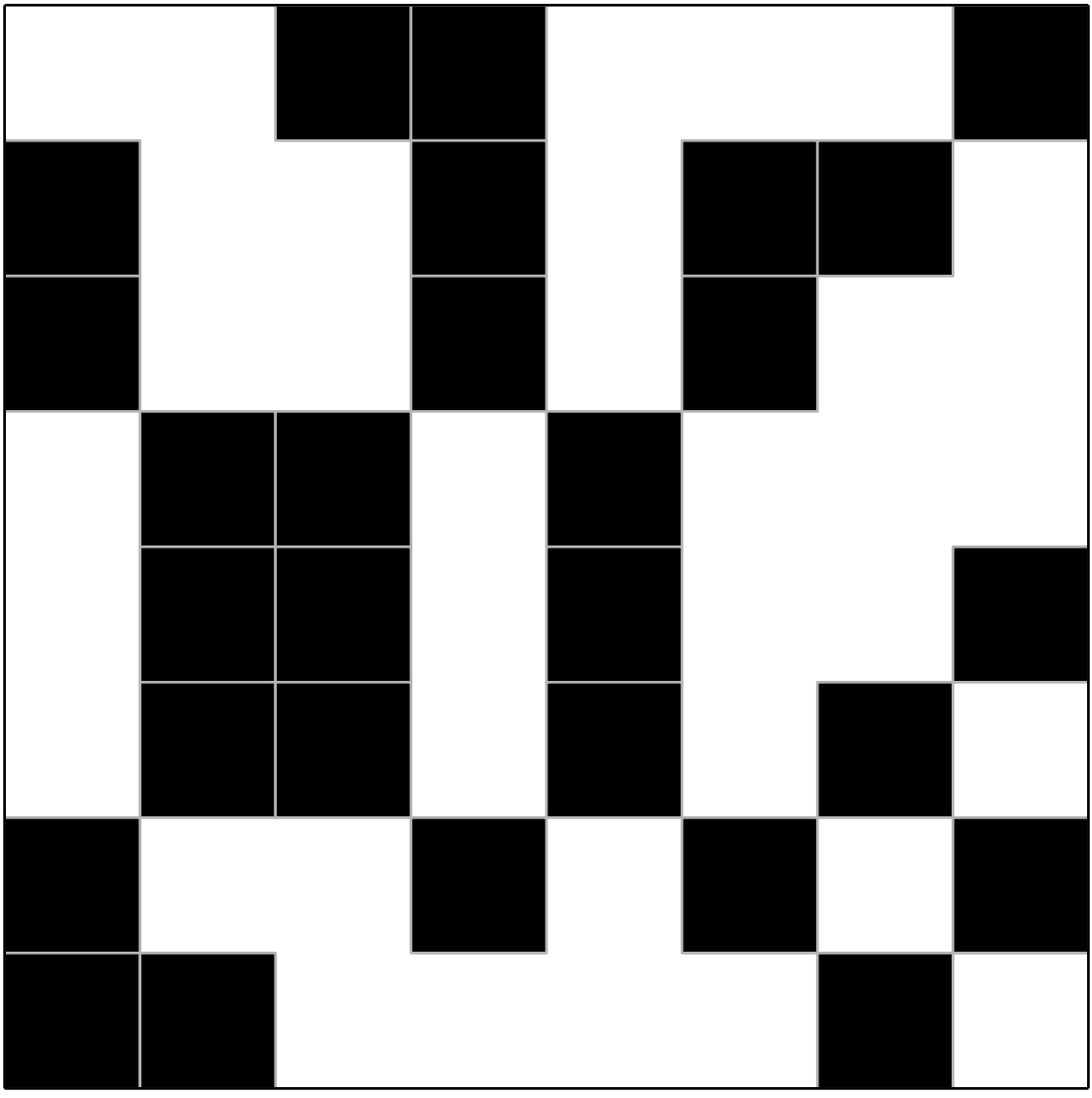
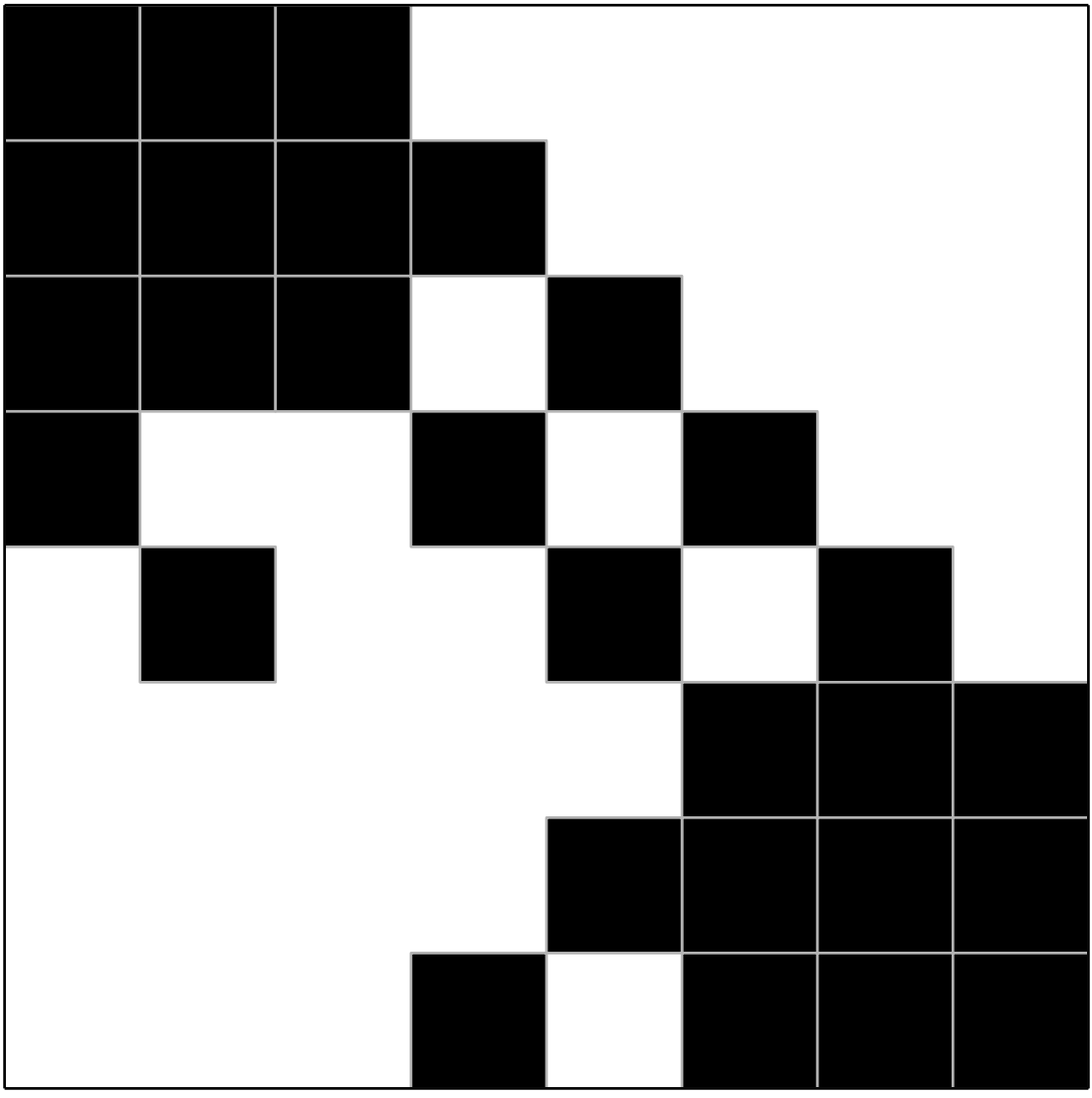
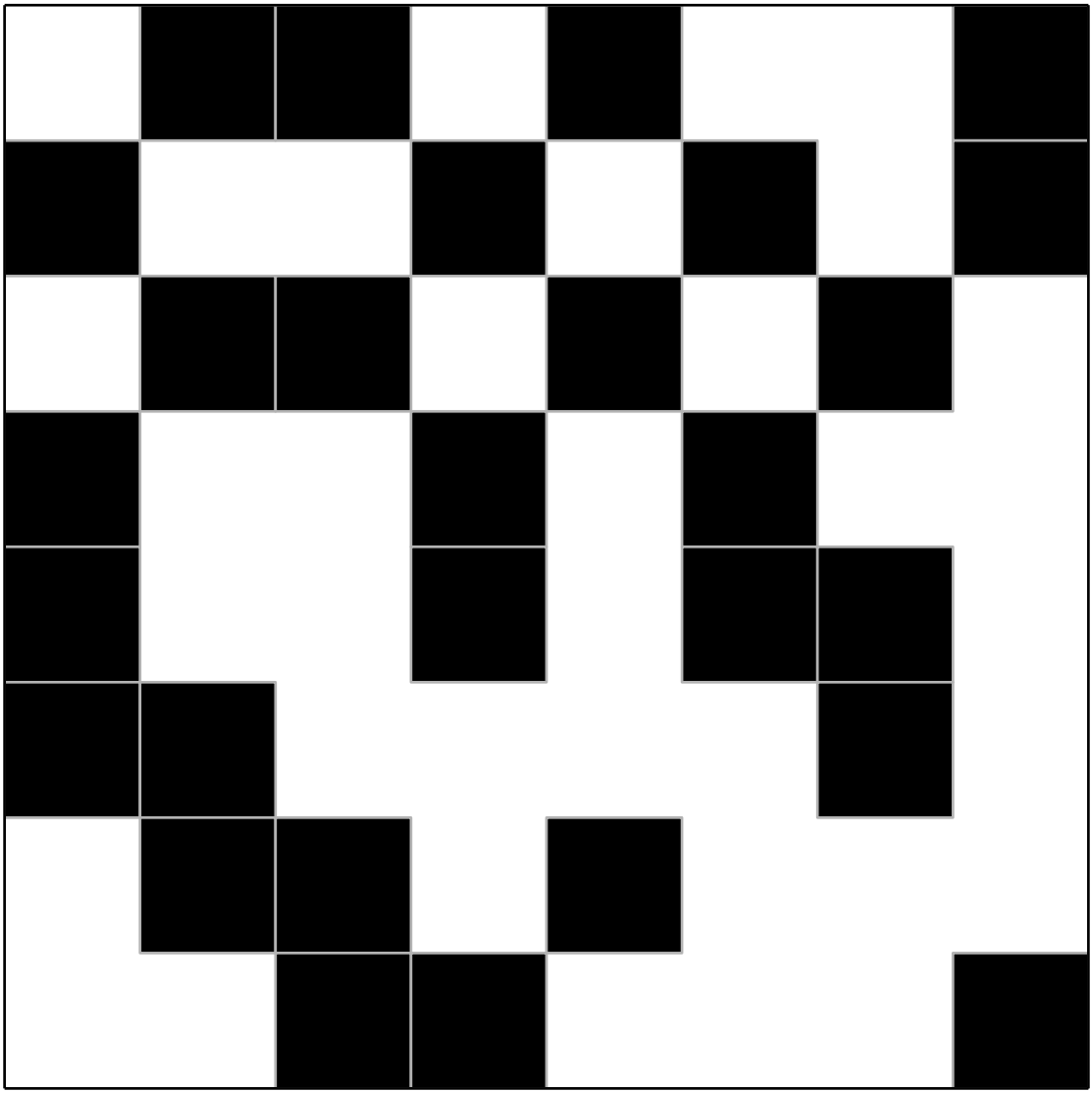
lib3_kear3-00 8x8 (28) con: 4, var: 4

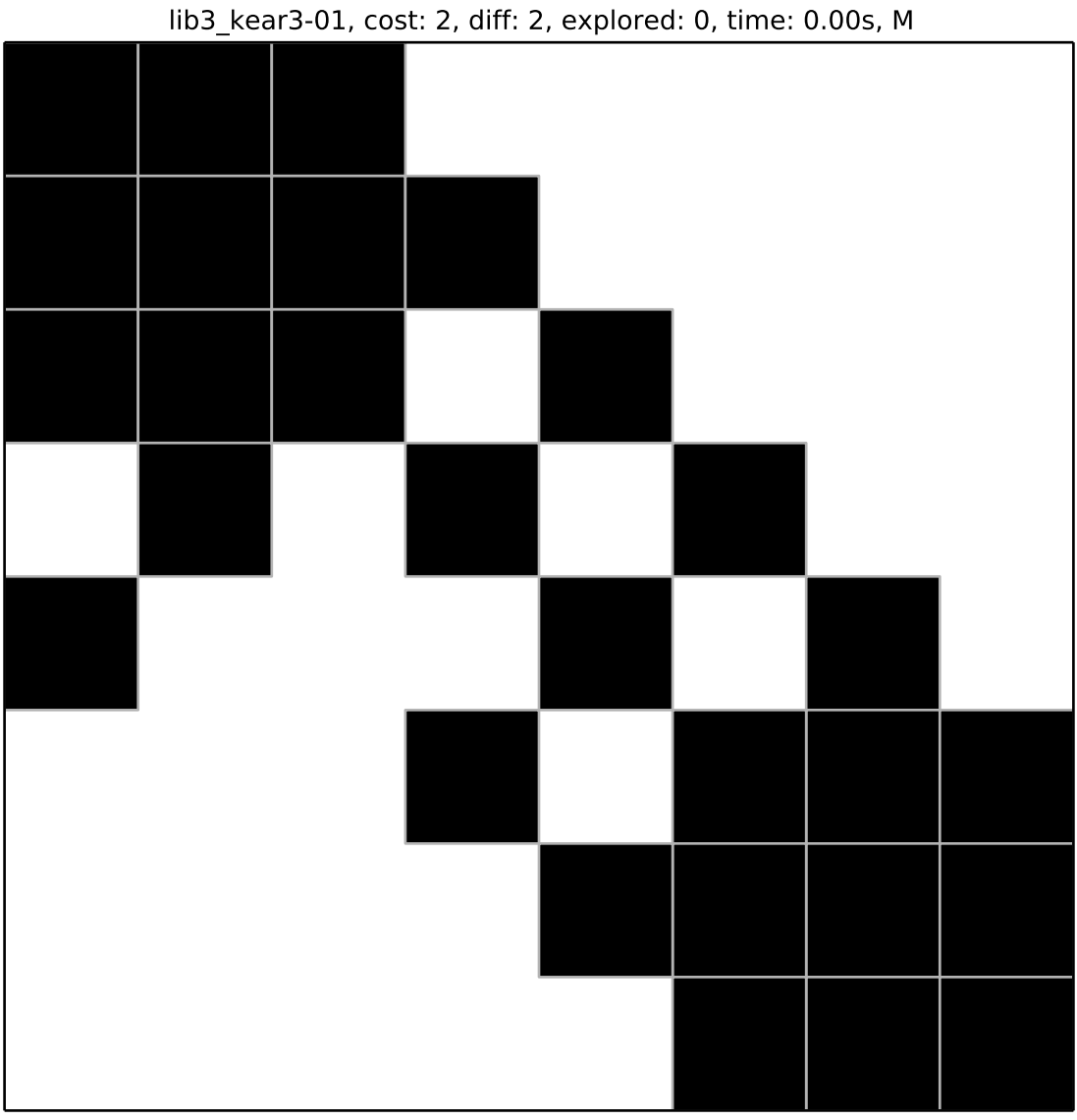


lib3_kear3-00, cost: 2, diff: 2, explored: 2, time: 0.00s

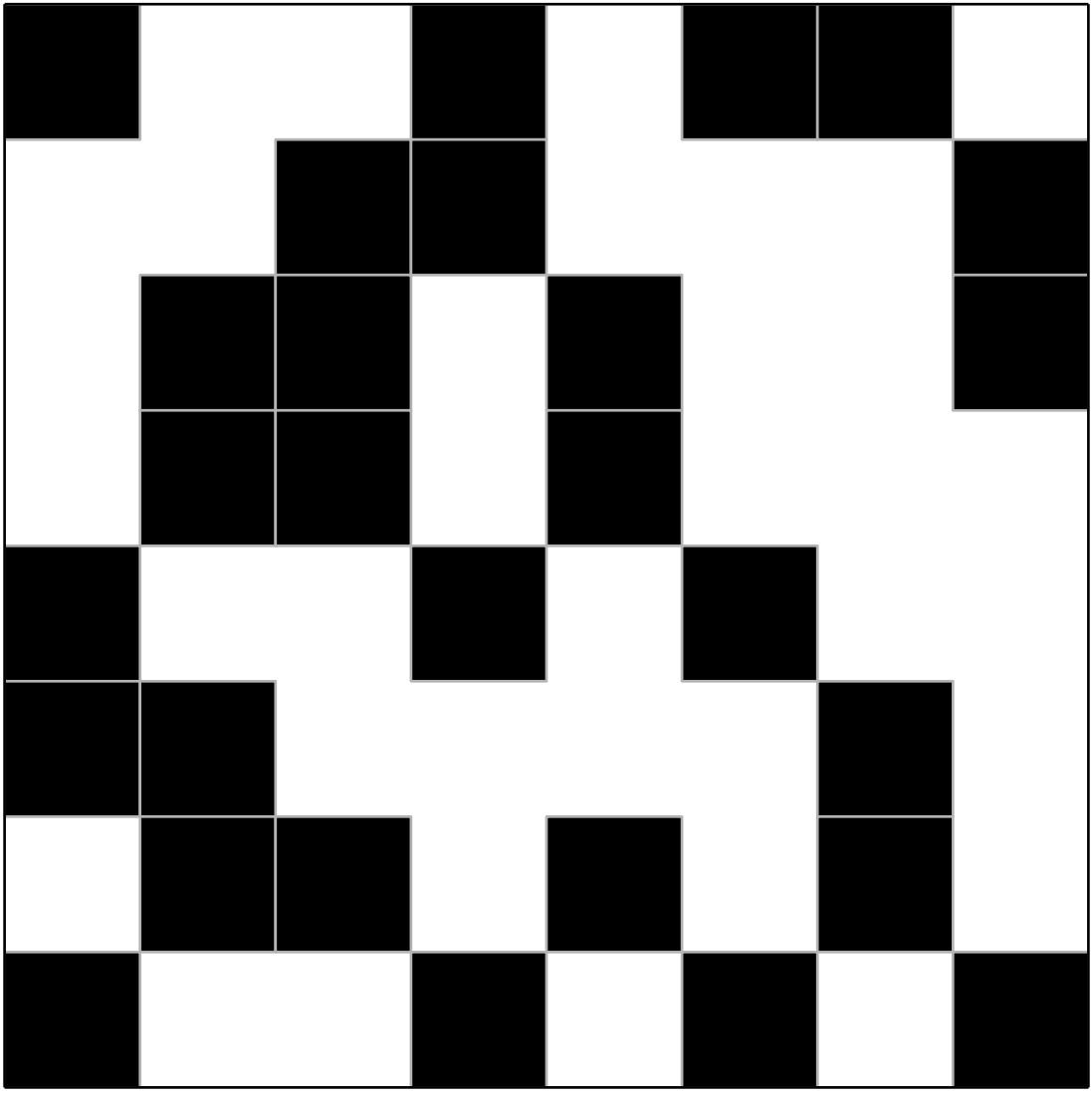


lib3_kear3-01 8x8 (28) con: 4, var: 4

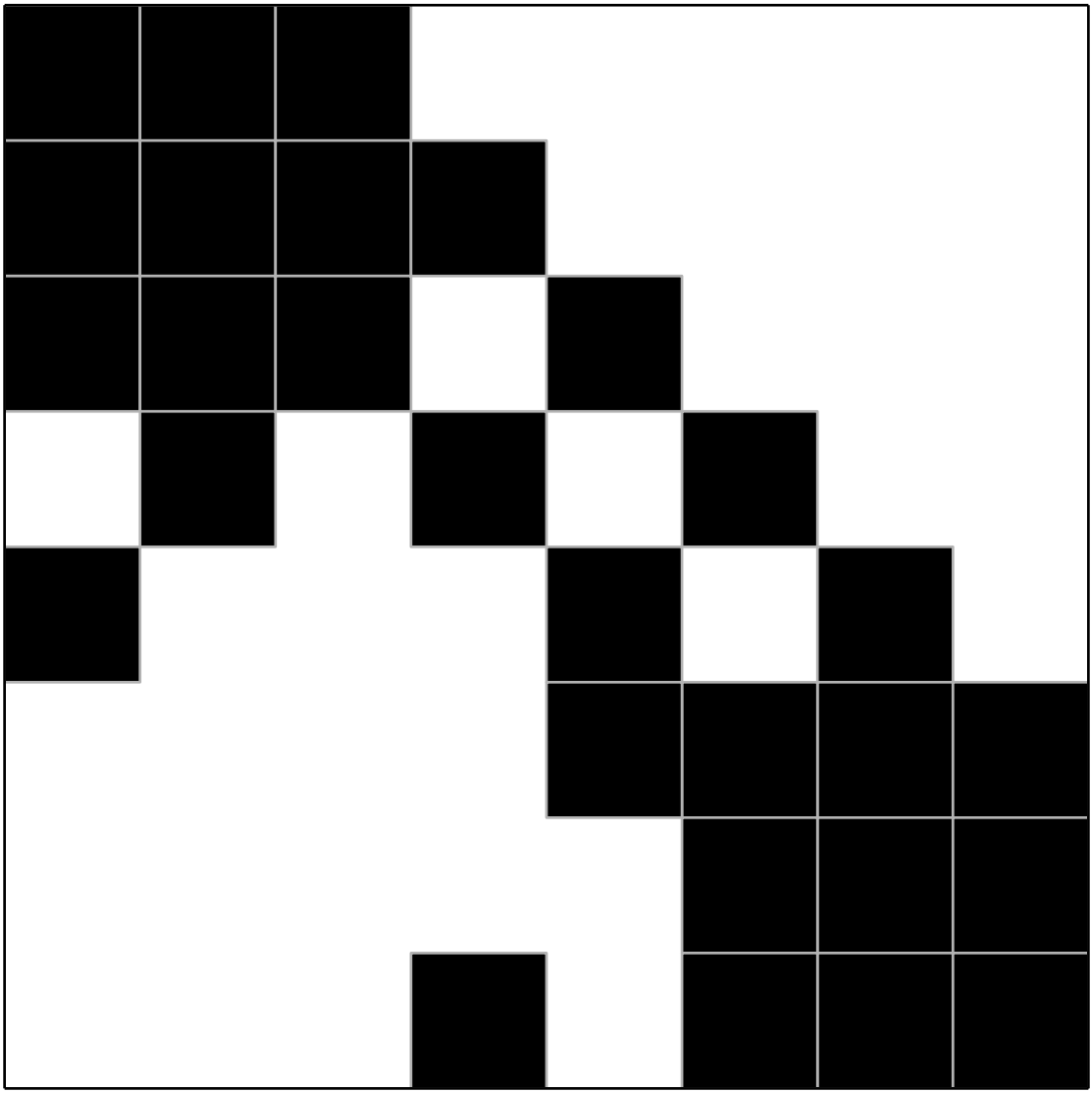



lib3_kear3-01, cost: 2, diff: 2, explored: 0, time: 0.00s, M

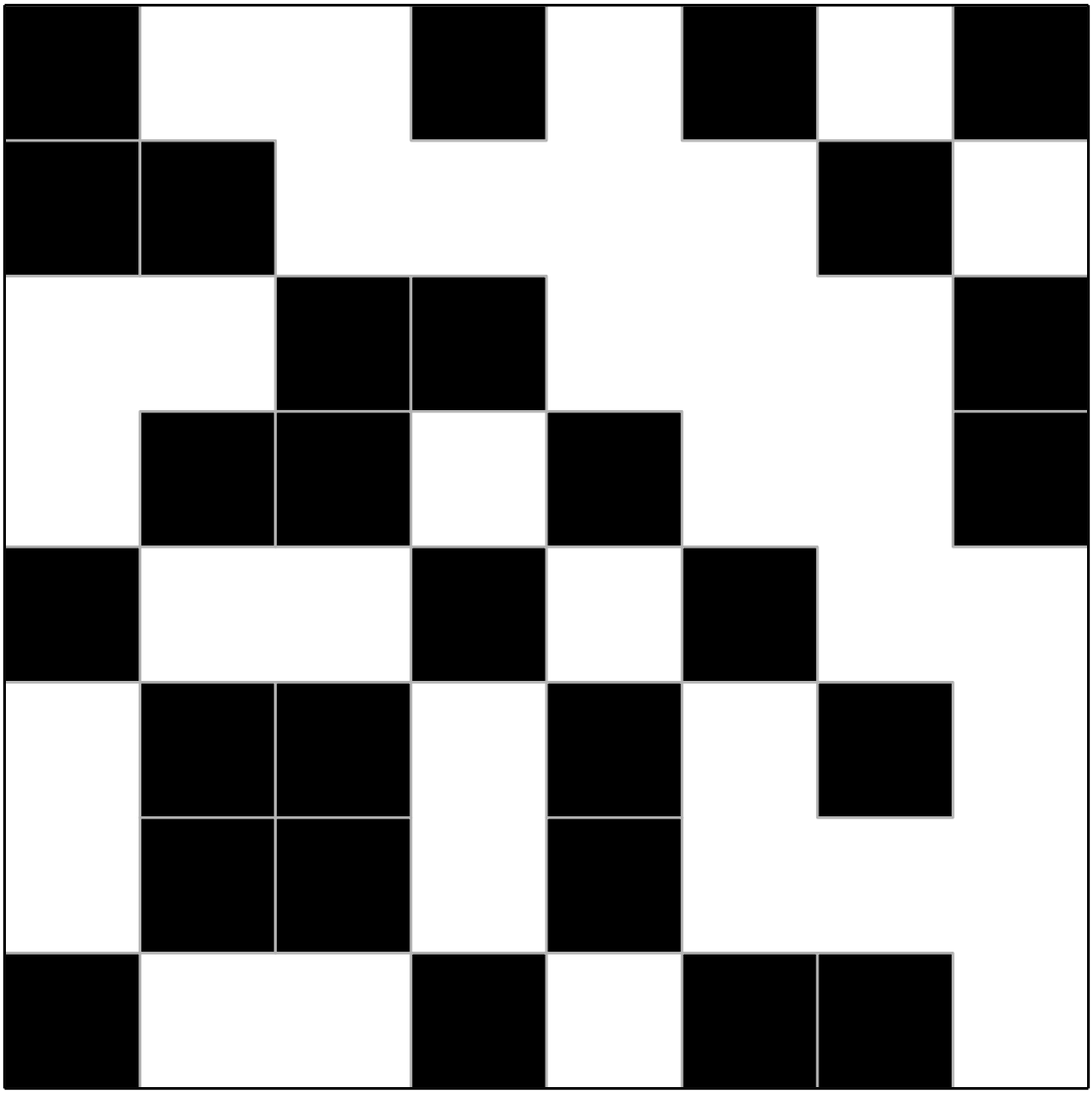
lib3_kear3-02 8x8 (28) con: 4, var: 4



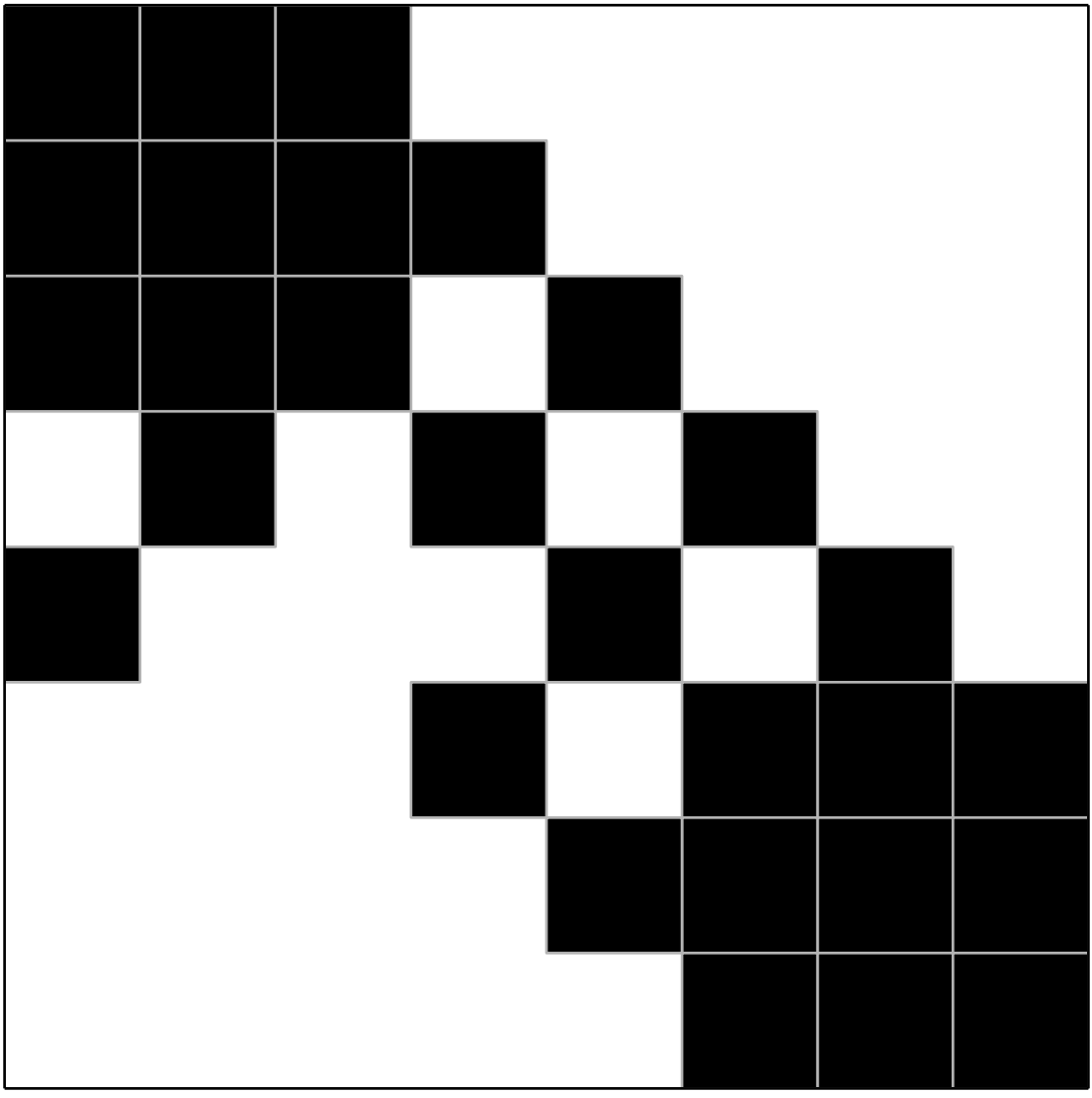
lib3_kear3-02, cost: 2, diff: 2, explored: 2, time: 0.00s



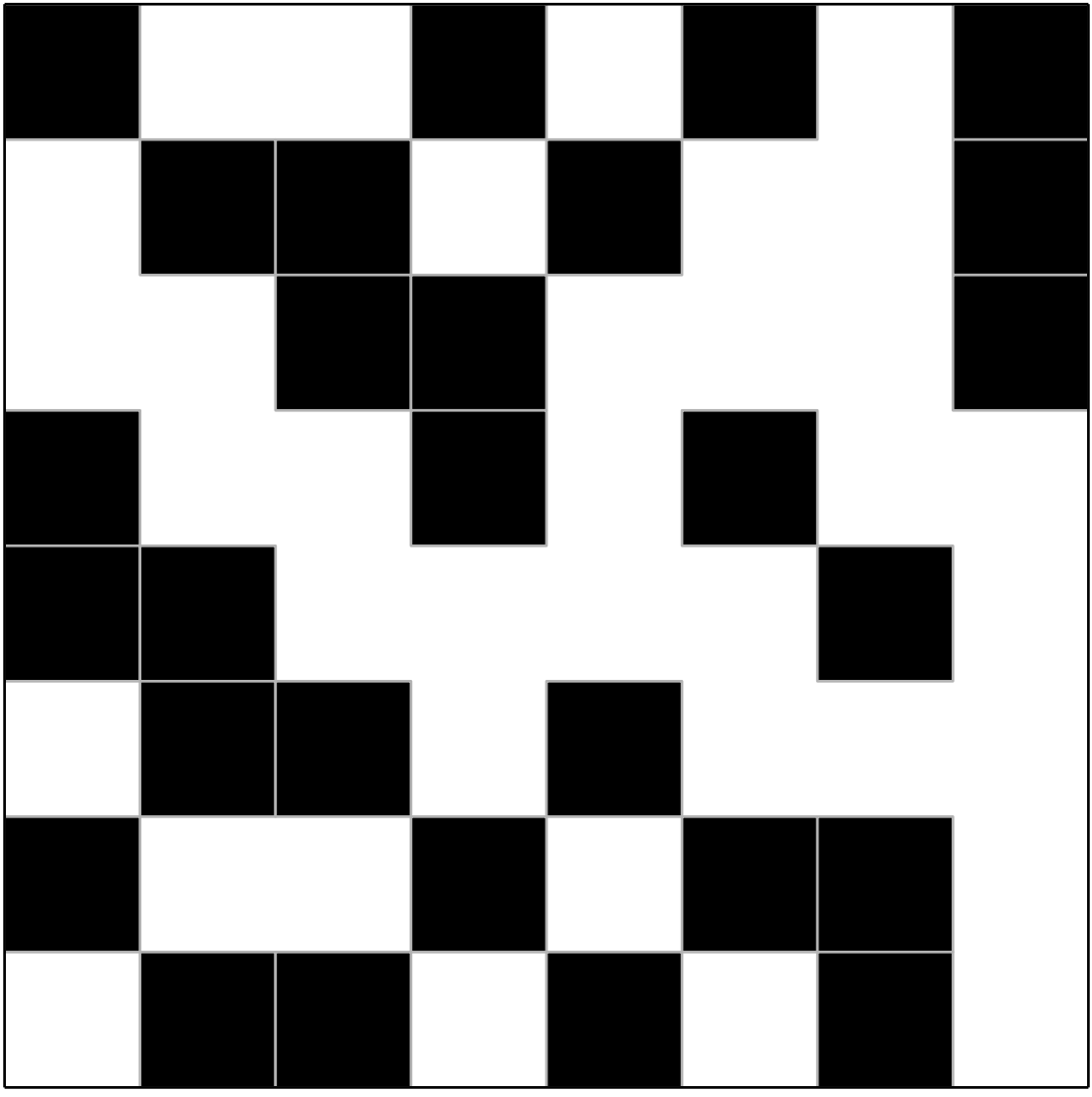
lib3_kear3-03 8x8 (28) con: 4, var: 4



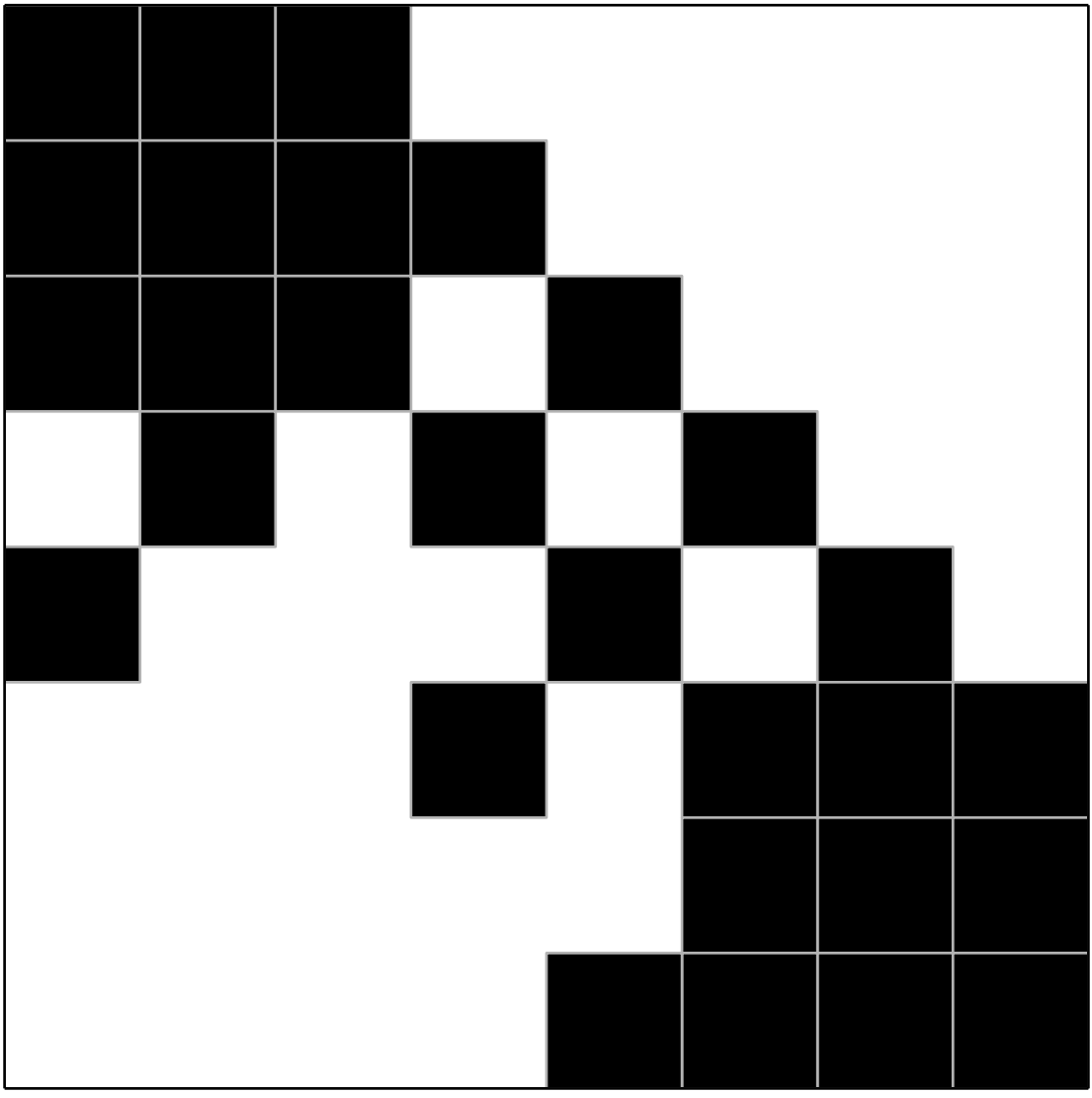
lib3_kear3-03, cost: 2, diff: 2, explored: 3, time: 0.00s



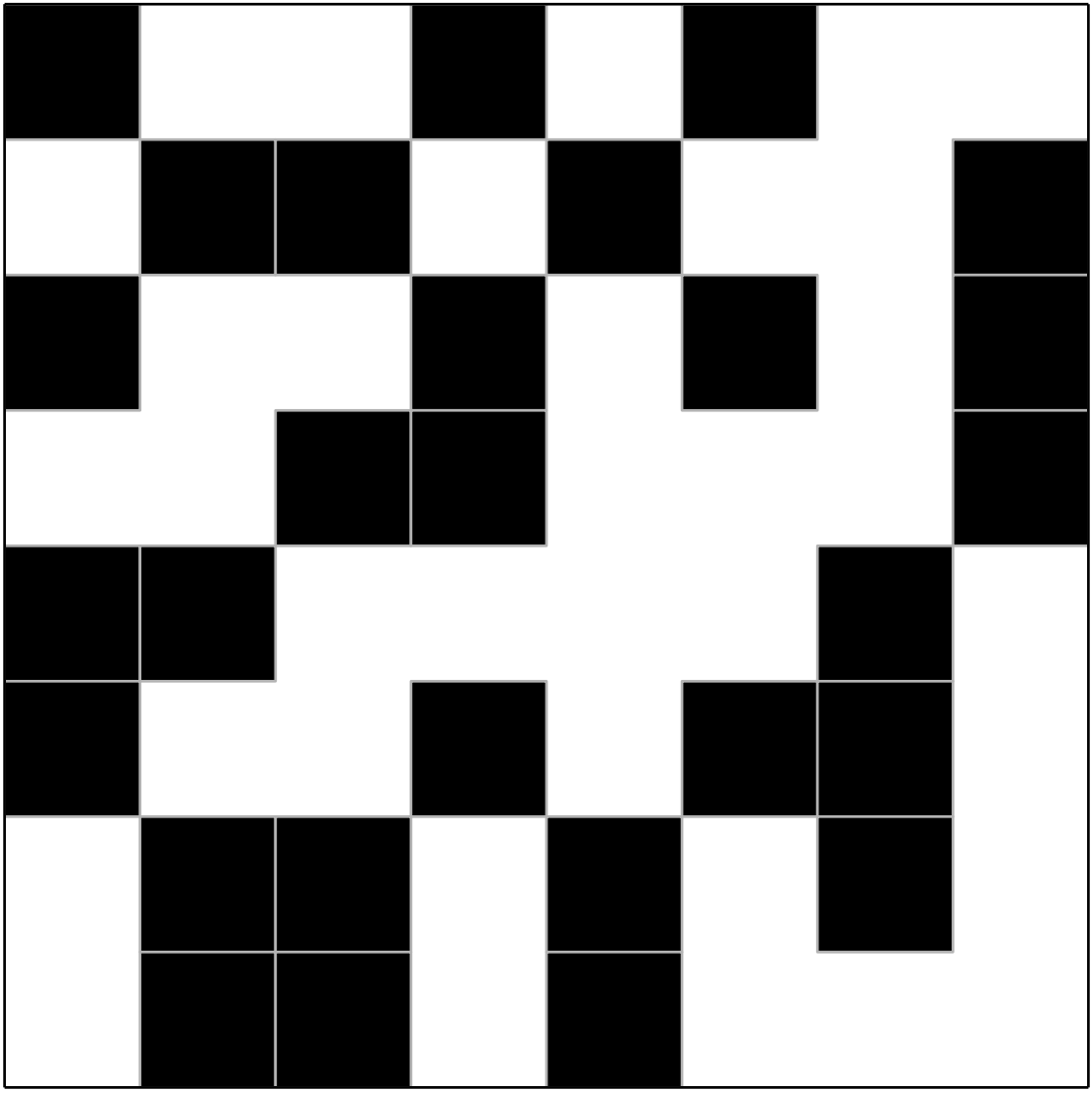
lib3_kear3-04 8x8 (28) con: 4, var: 4

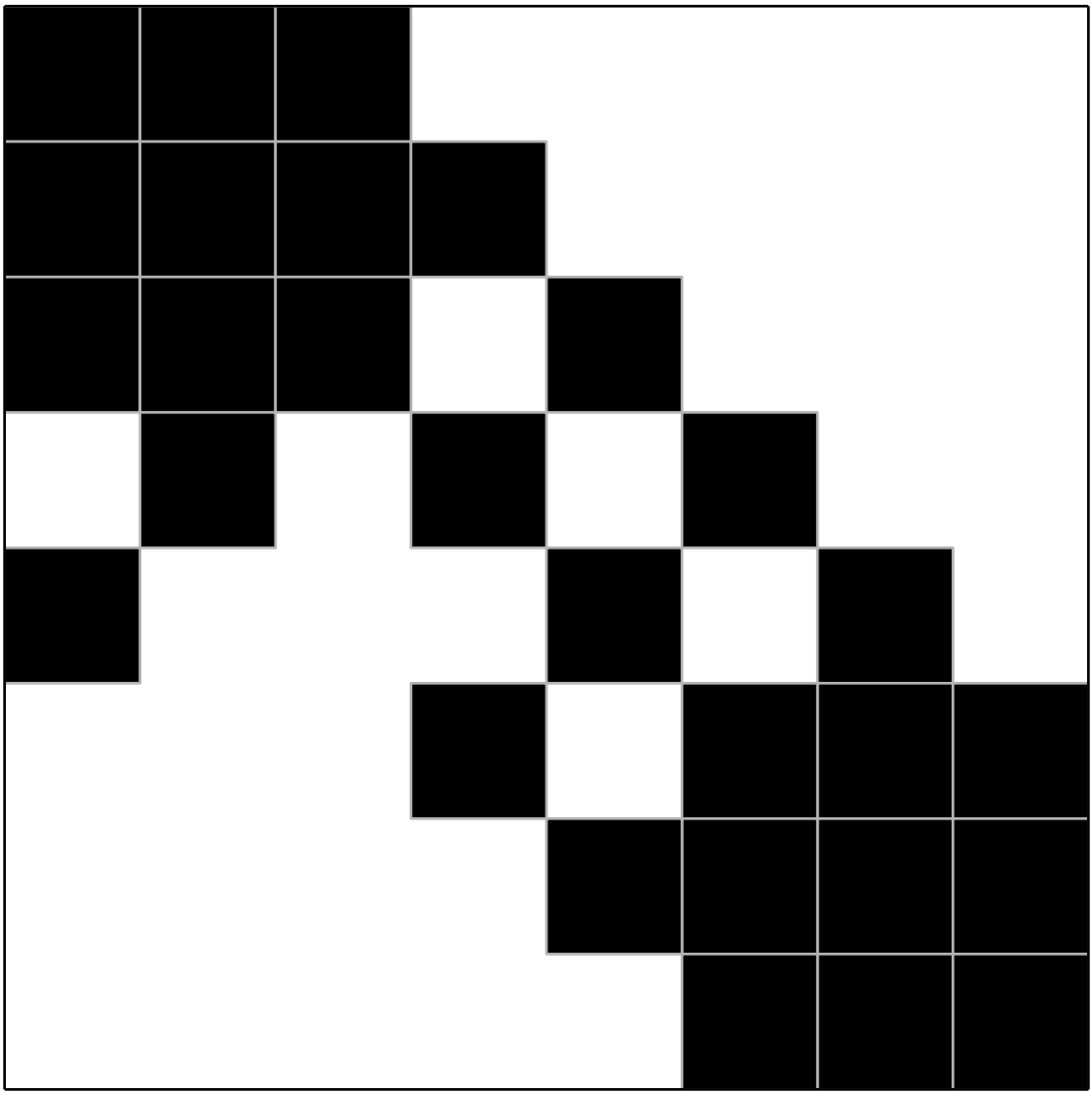


lib3_kear3-04, cost: 2, diff: 2, explored: 2, time: 0.00s

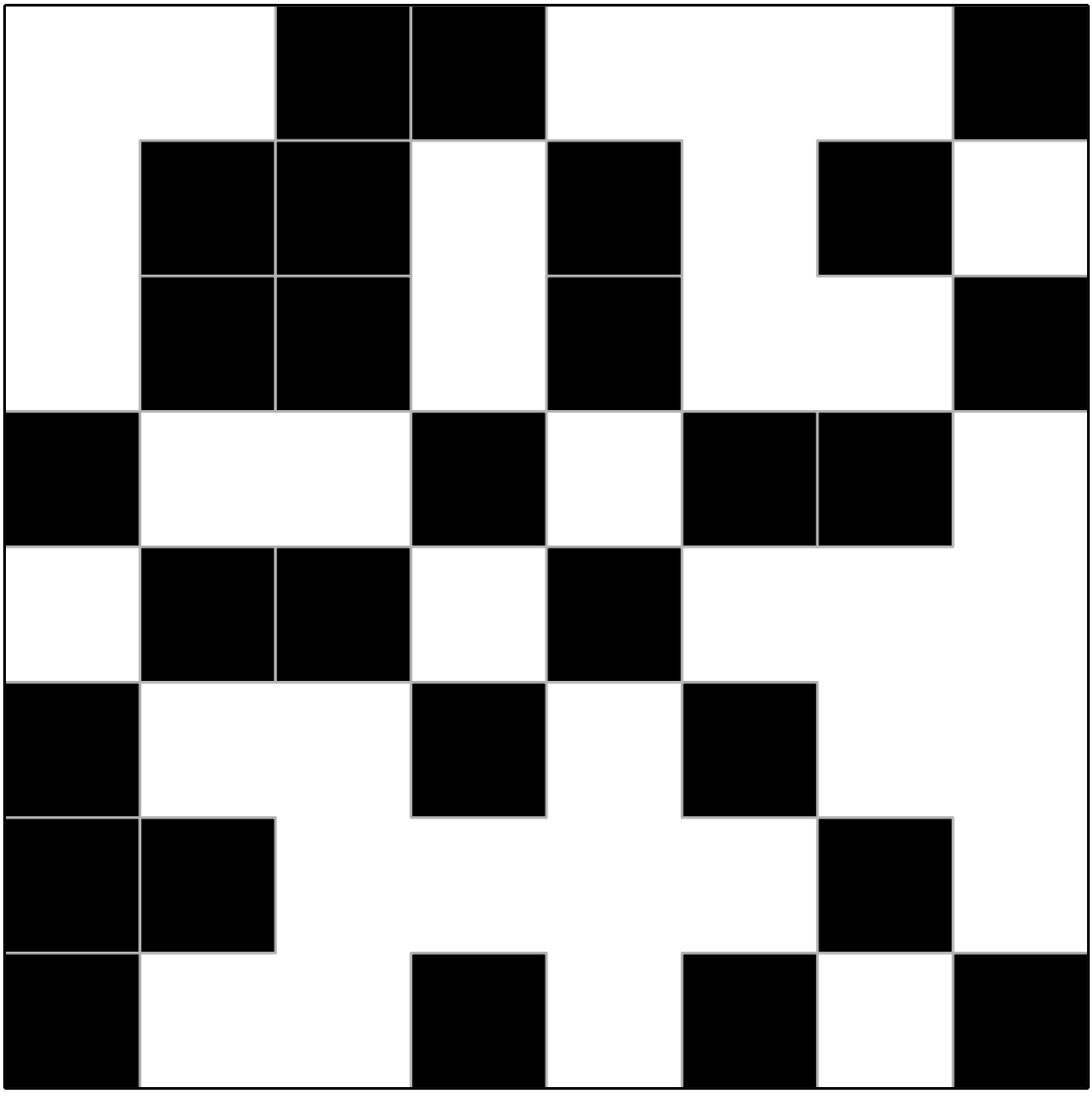


lib3_kear3-05 8x8 (28) con: 4, var: 4




lib3_kear3-05, cost: 2, diff: 2, explored: 0, time: 0.00s, M

lib3_kear3-06 8x8 (28) con: 4, var: 4



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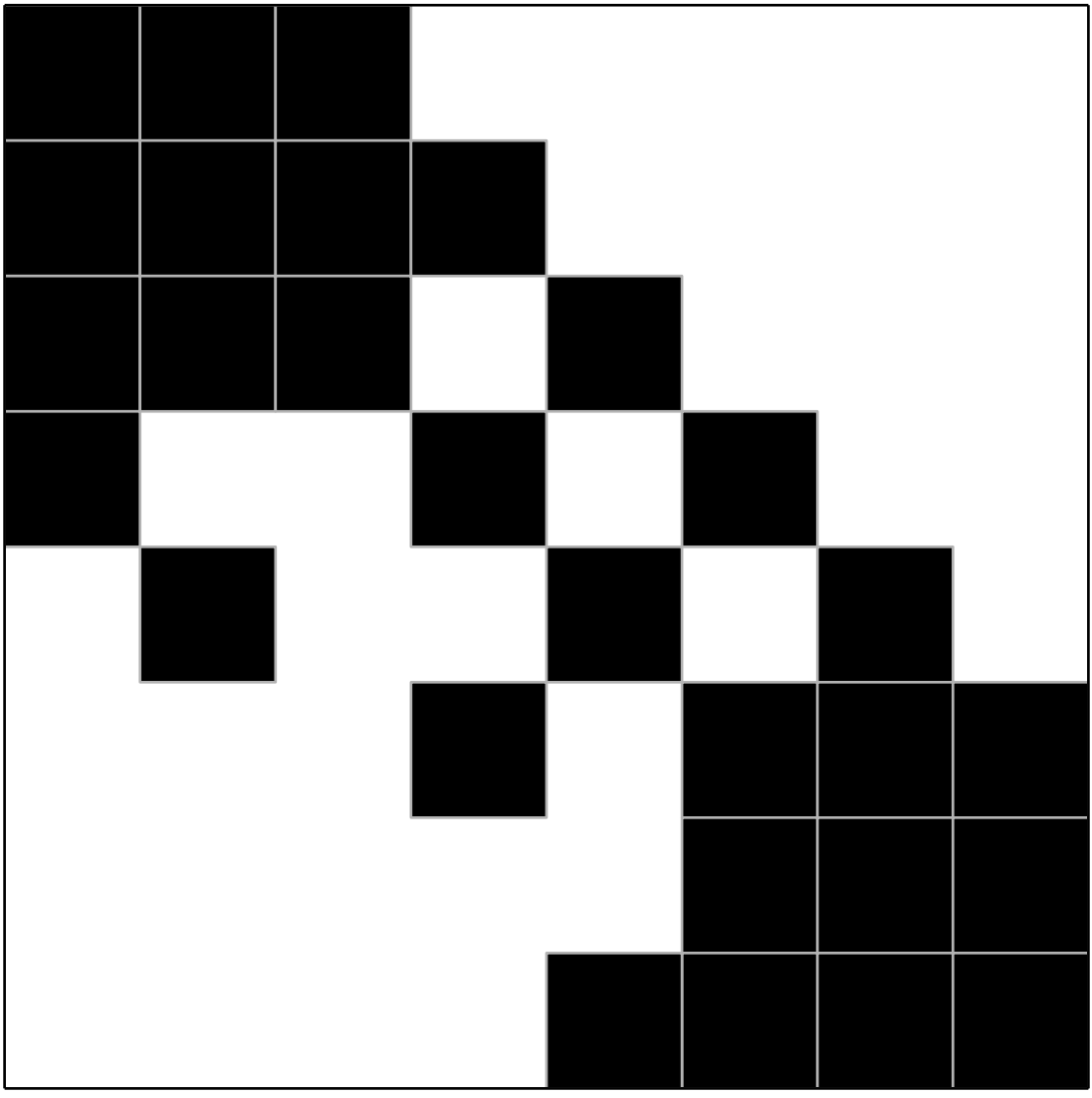
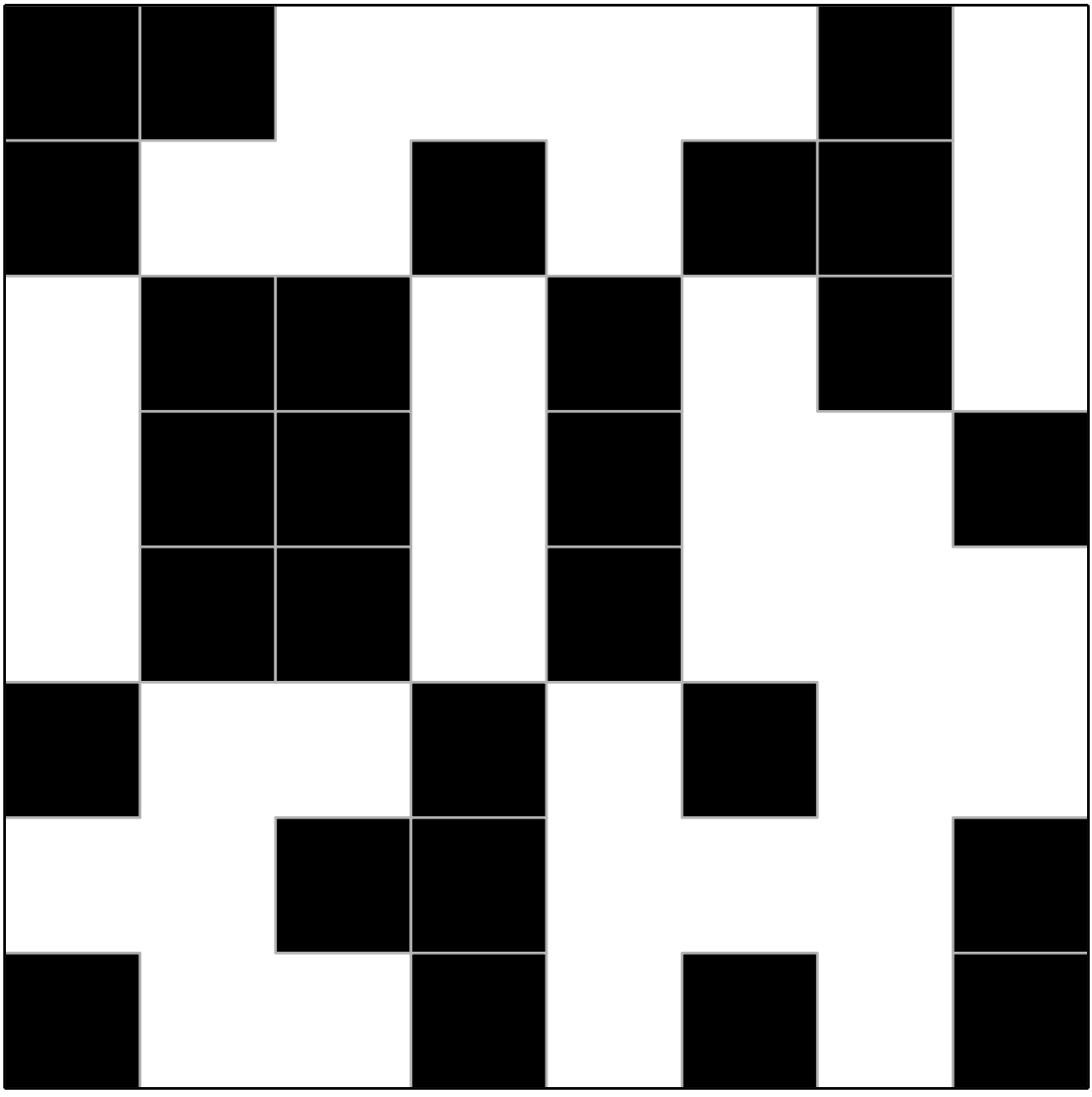
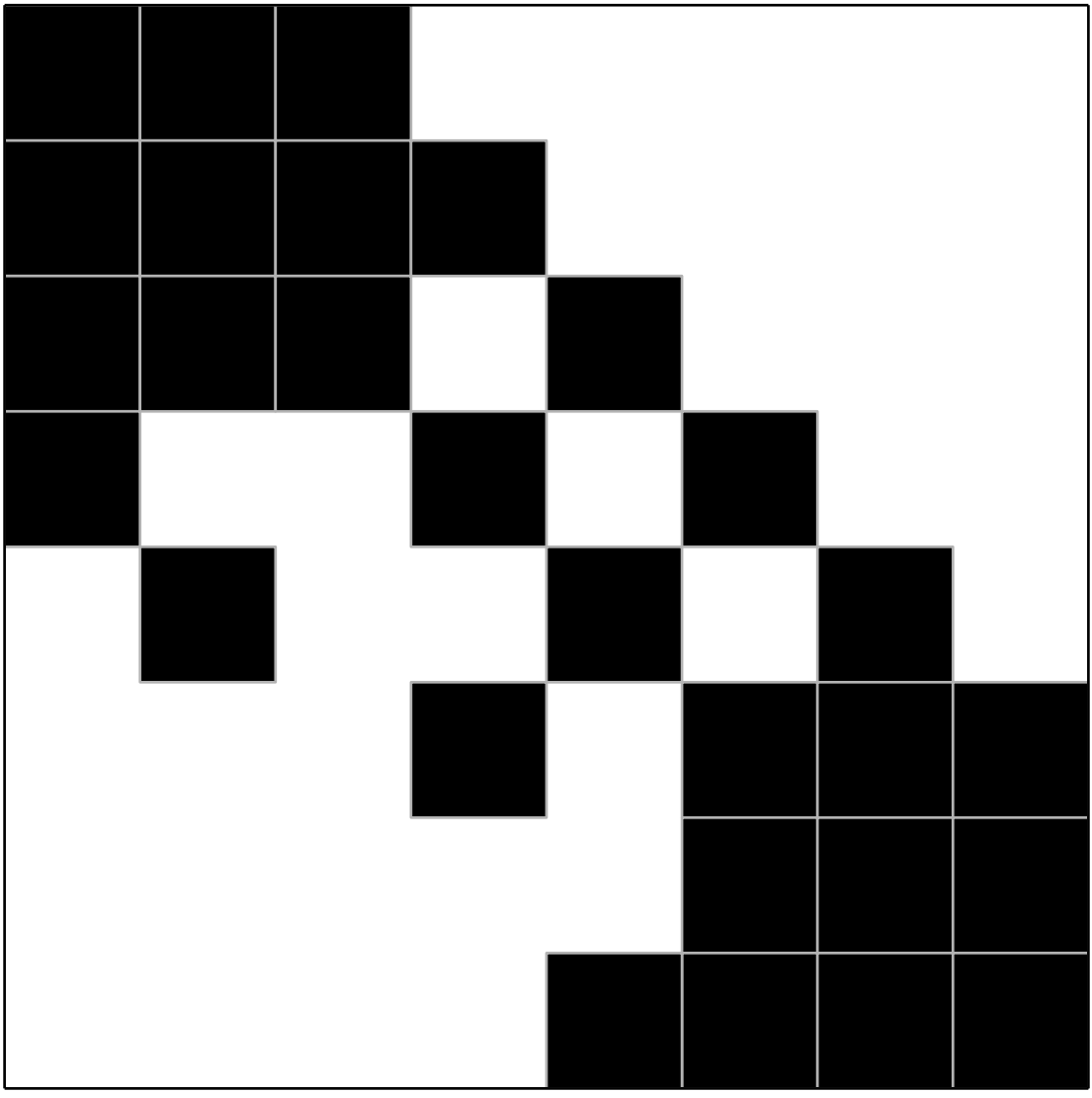


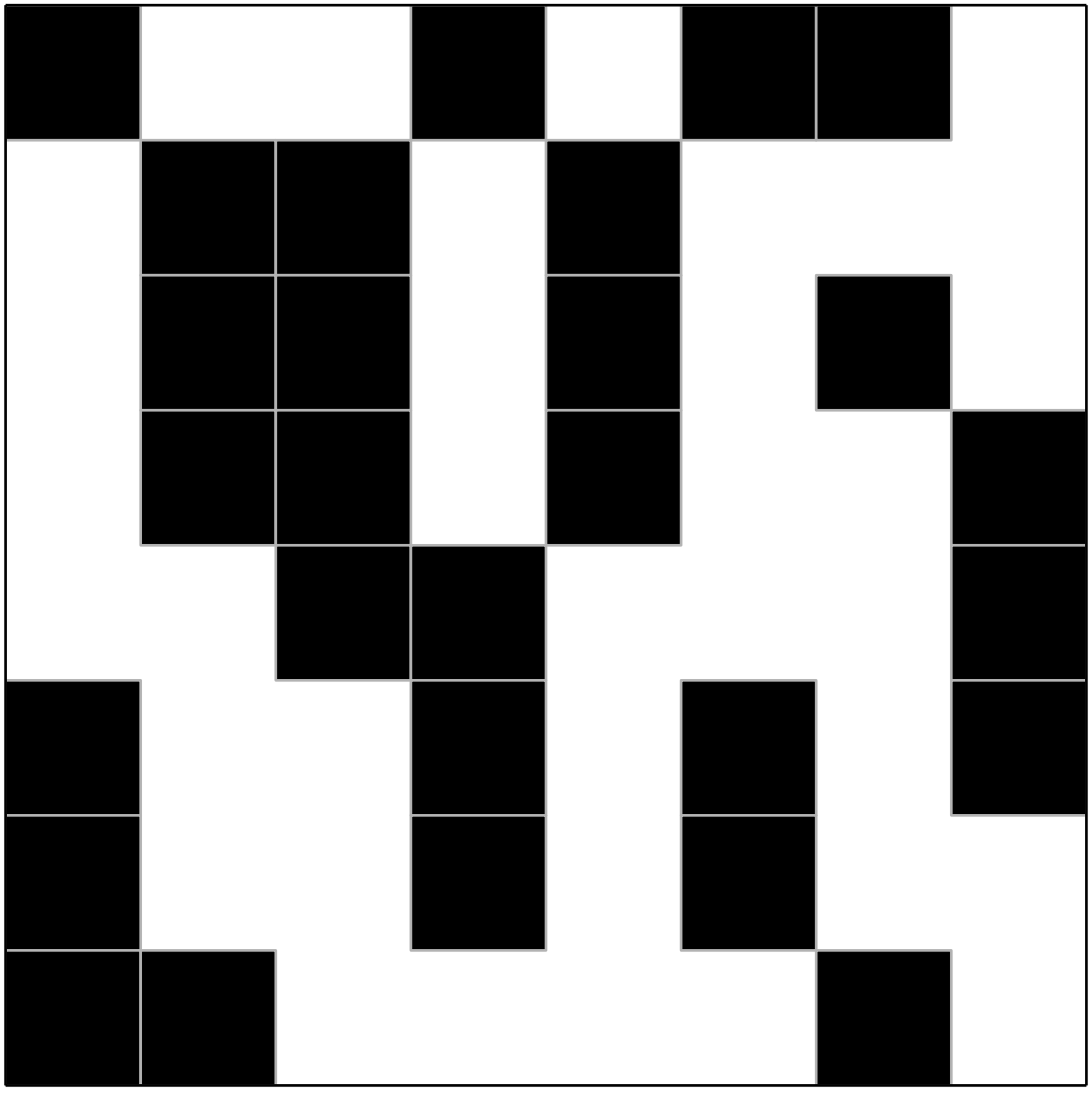
lib3_kear3-07 8x8 (28) con: 4, var: 4



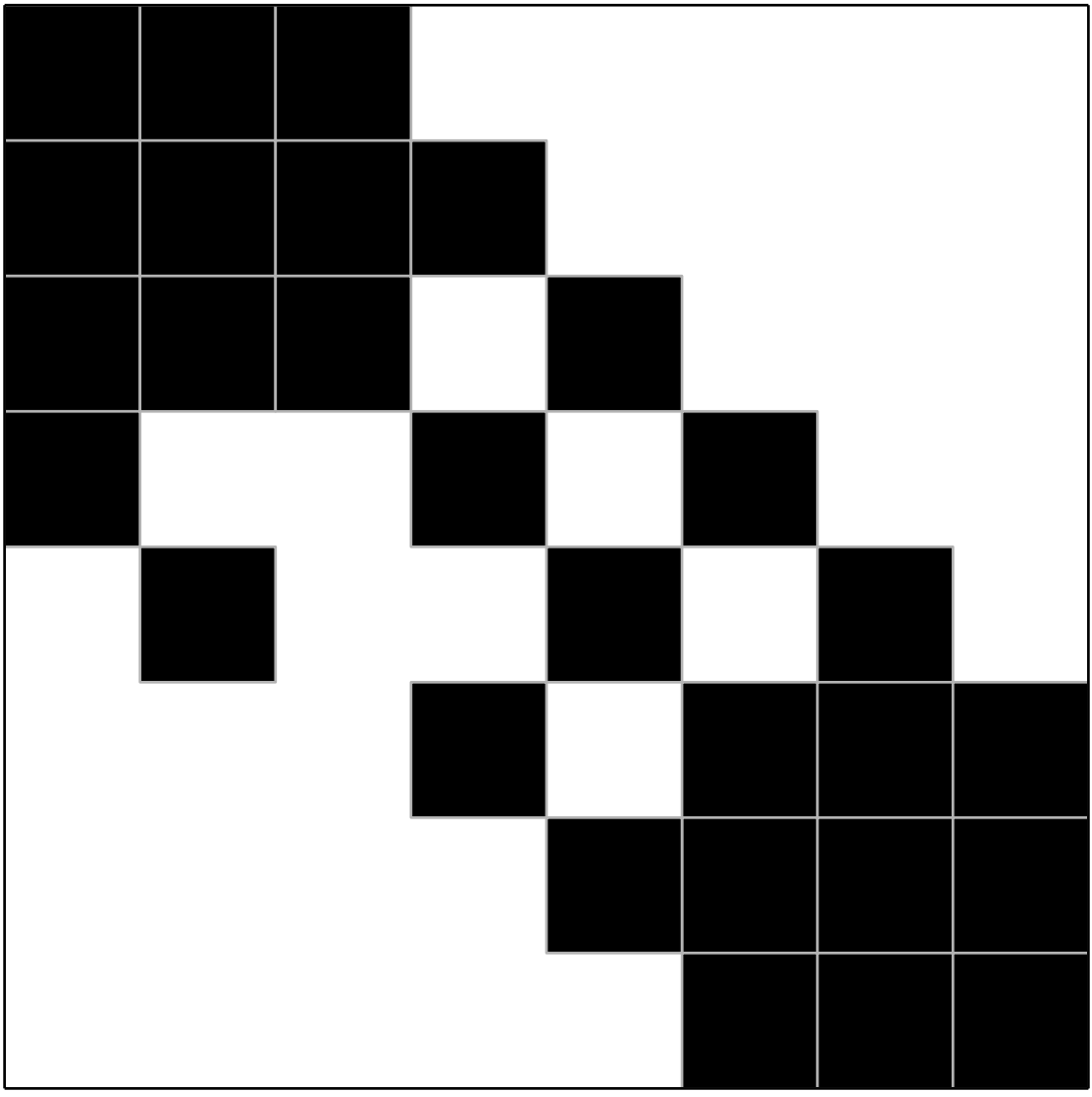
lib3_kear3-07, cost: 2, diff: 2, explored: 2, time: 0.00s



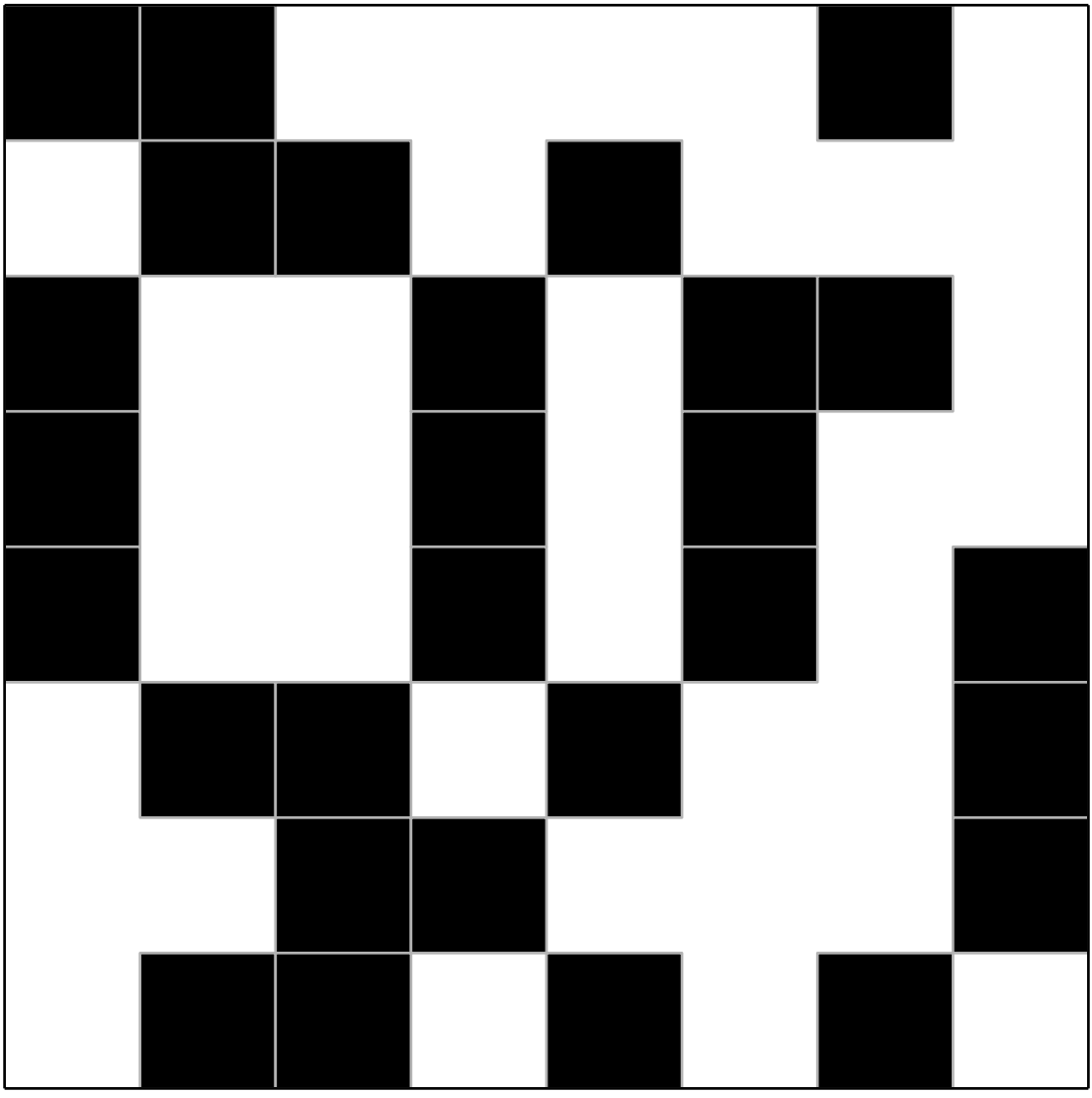
lib3_kear3-08 8x8 (28) con: 4, var: 4



lib3_kear3-08, cost: 2, diff: 2, explored: 0, time: 0.00s, M



lib3_kear3-09 8x8 (28) con: 4, var: 4



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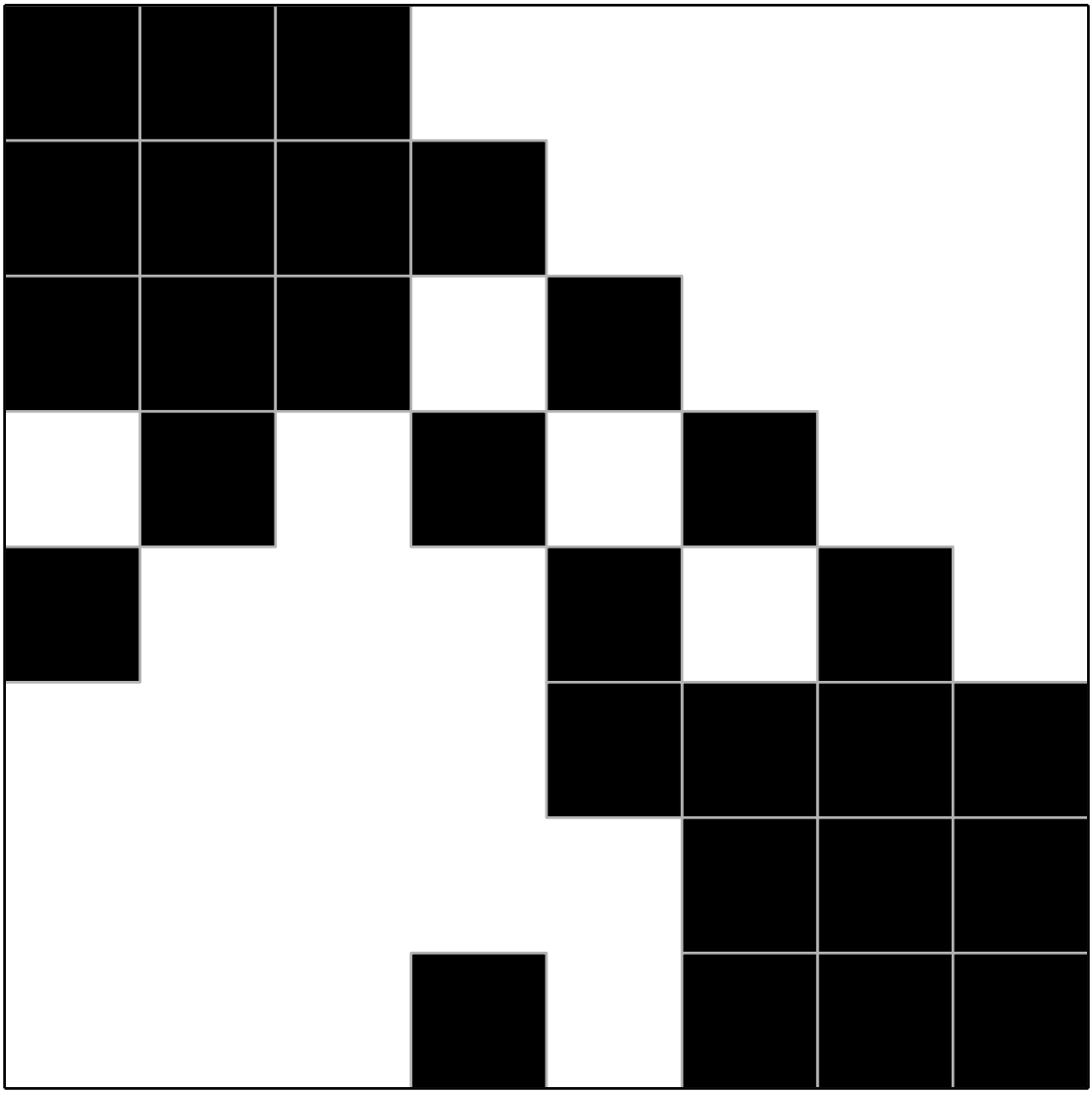
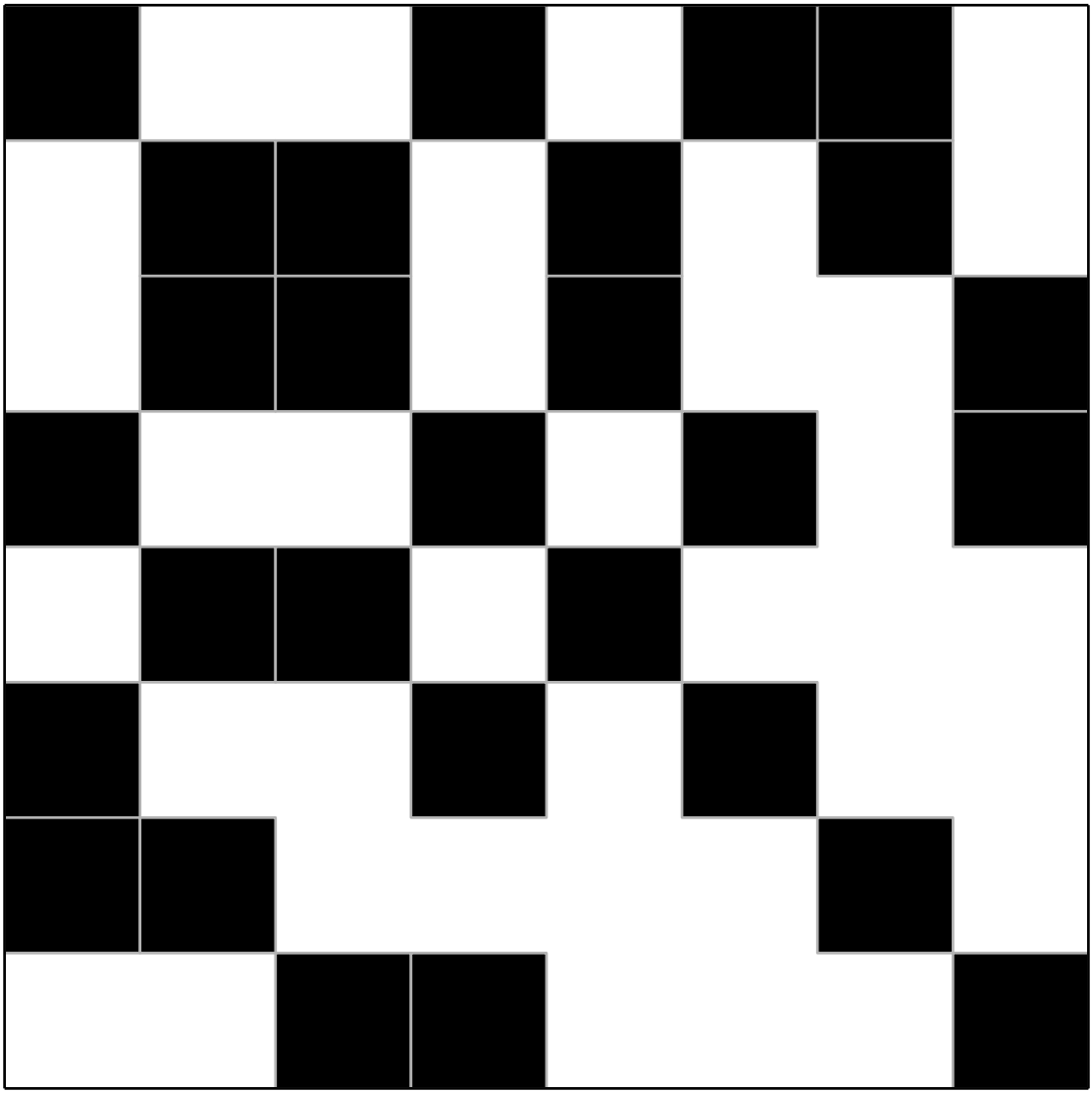
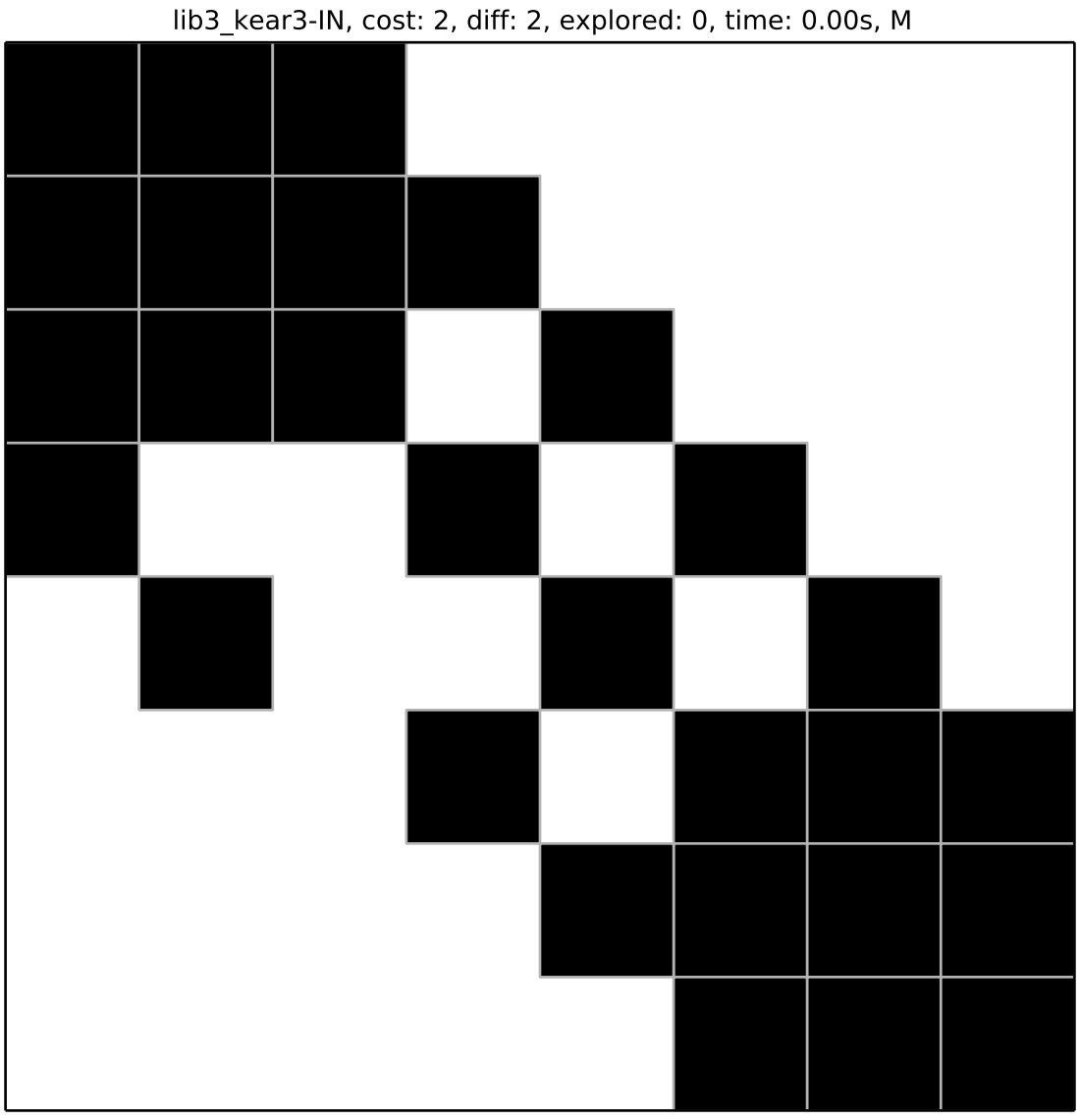
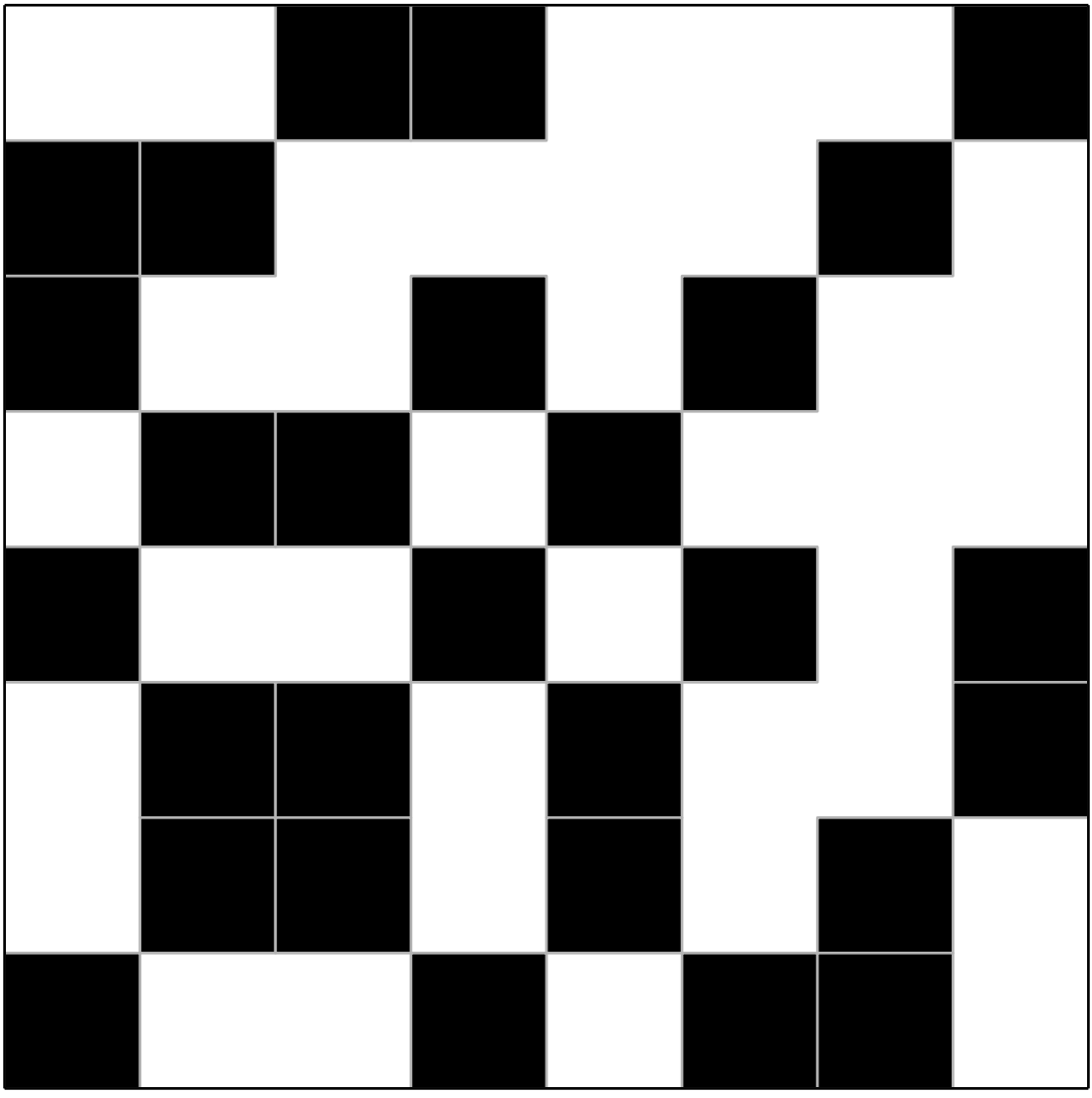


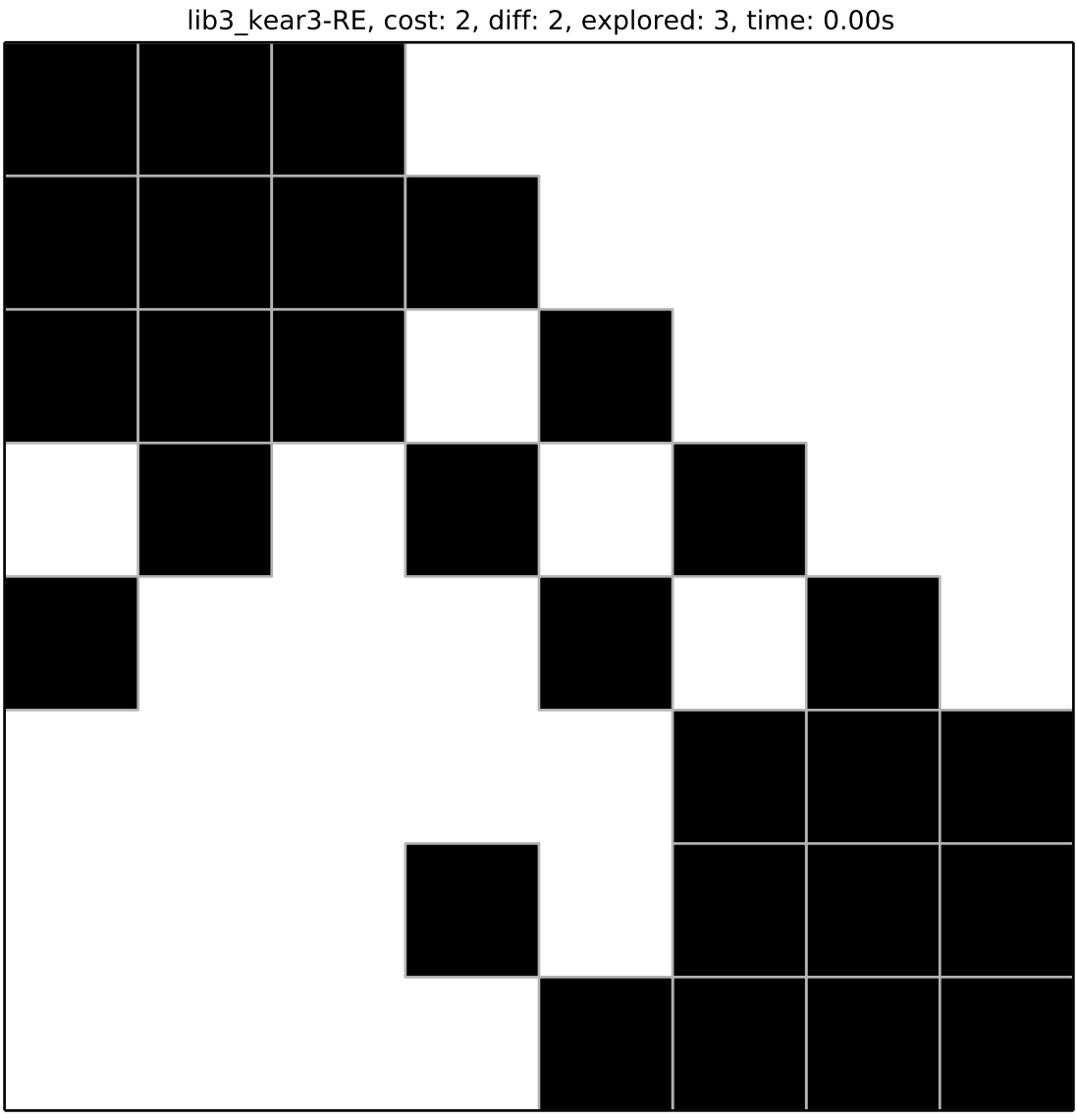
lib3_kear3-IN 8x8 (28) con: 4, var: 4

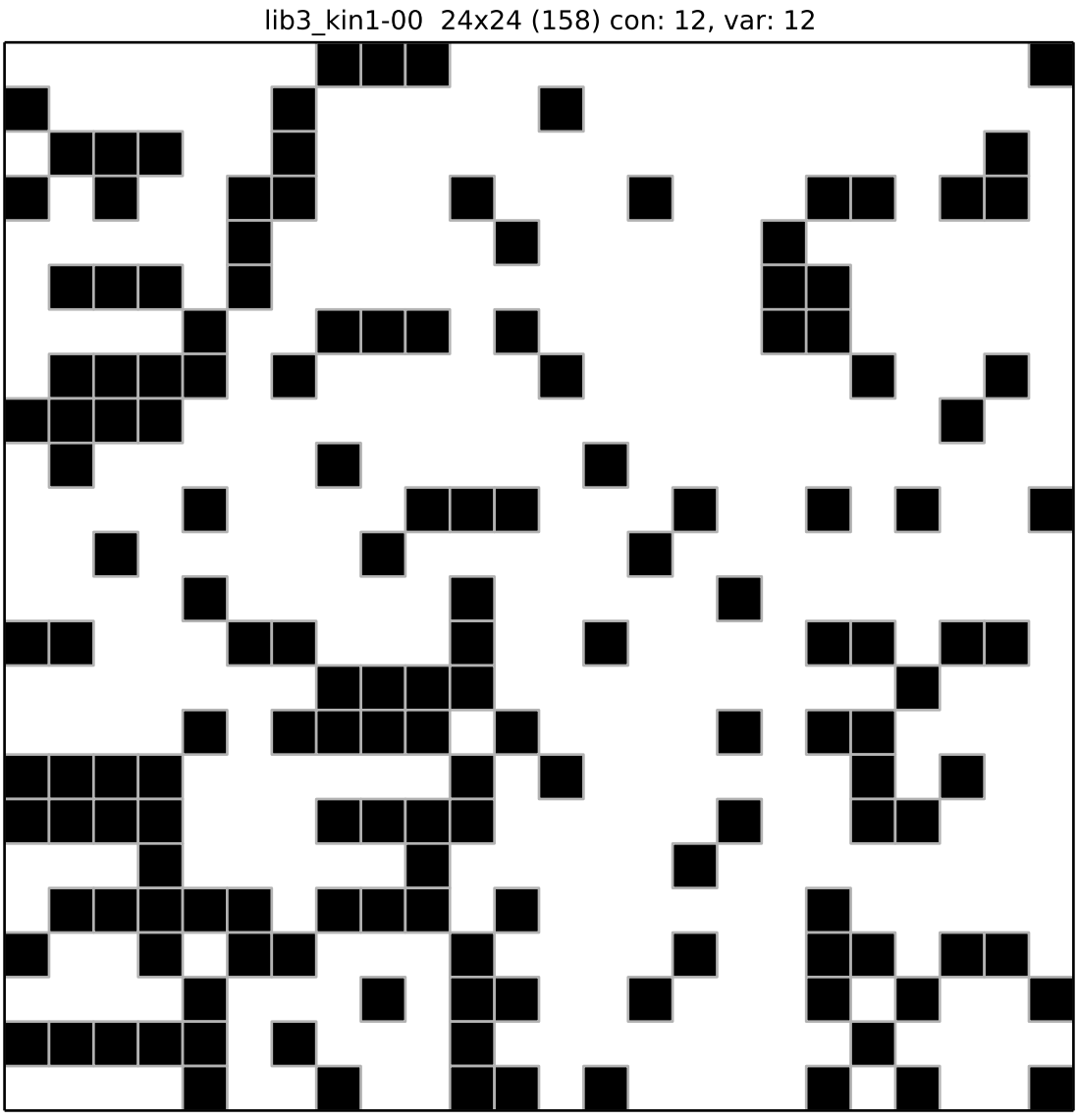


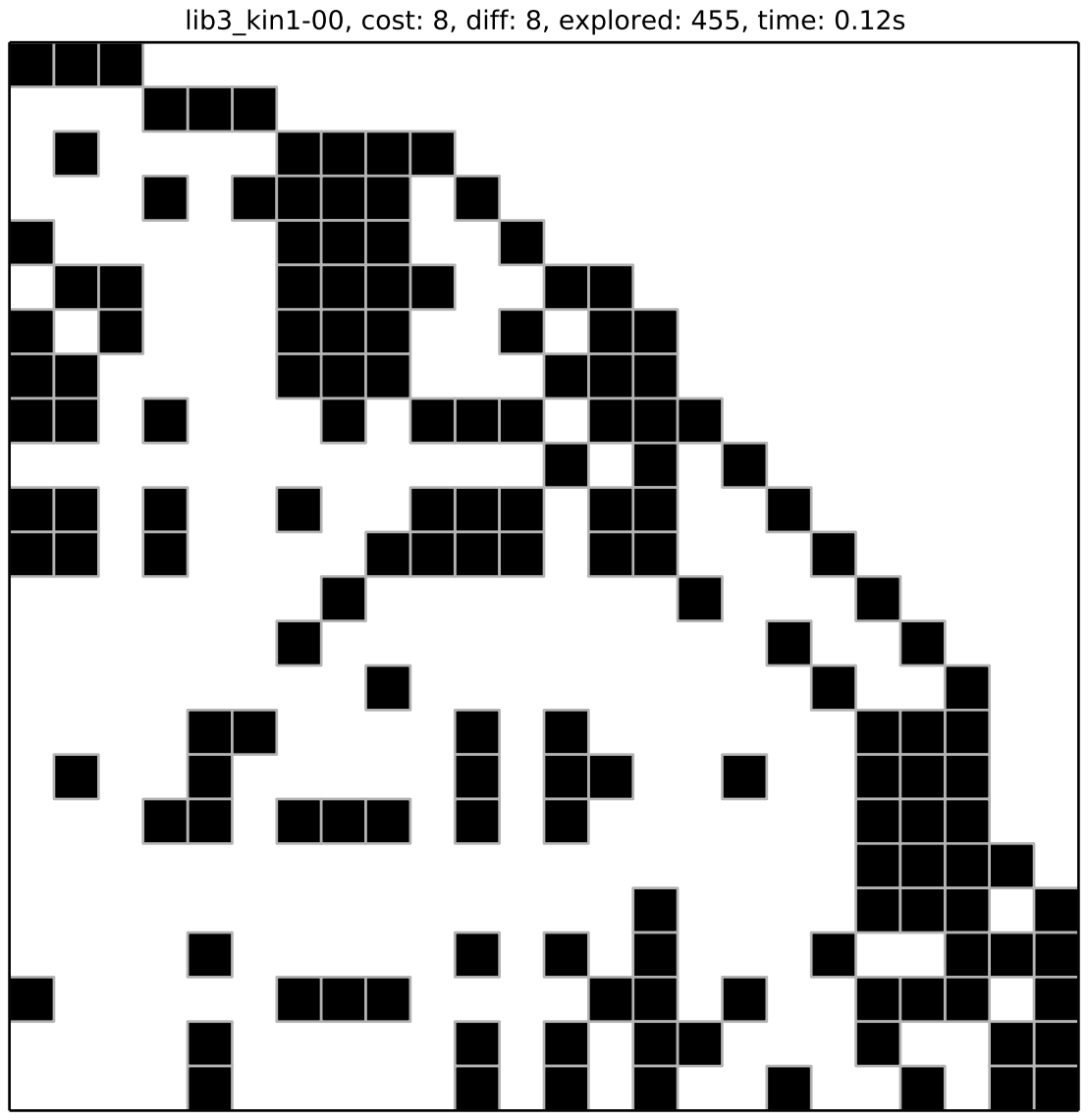

lib3_kear3-IN, cost: 2, diff: 2, explored: 0, time: 0.00s, M

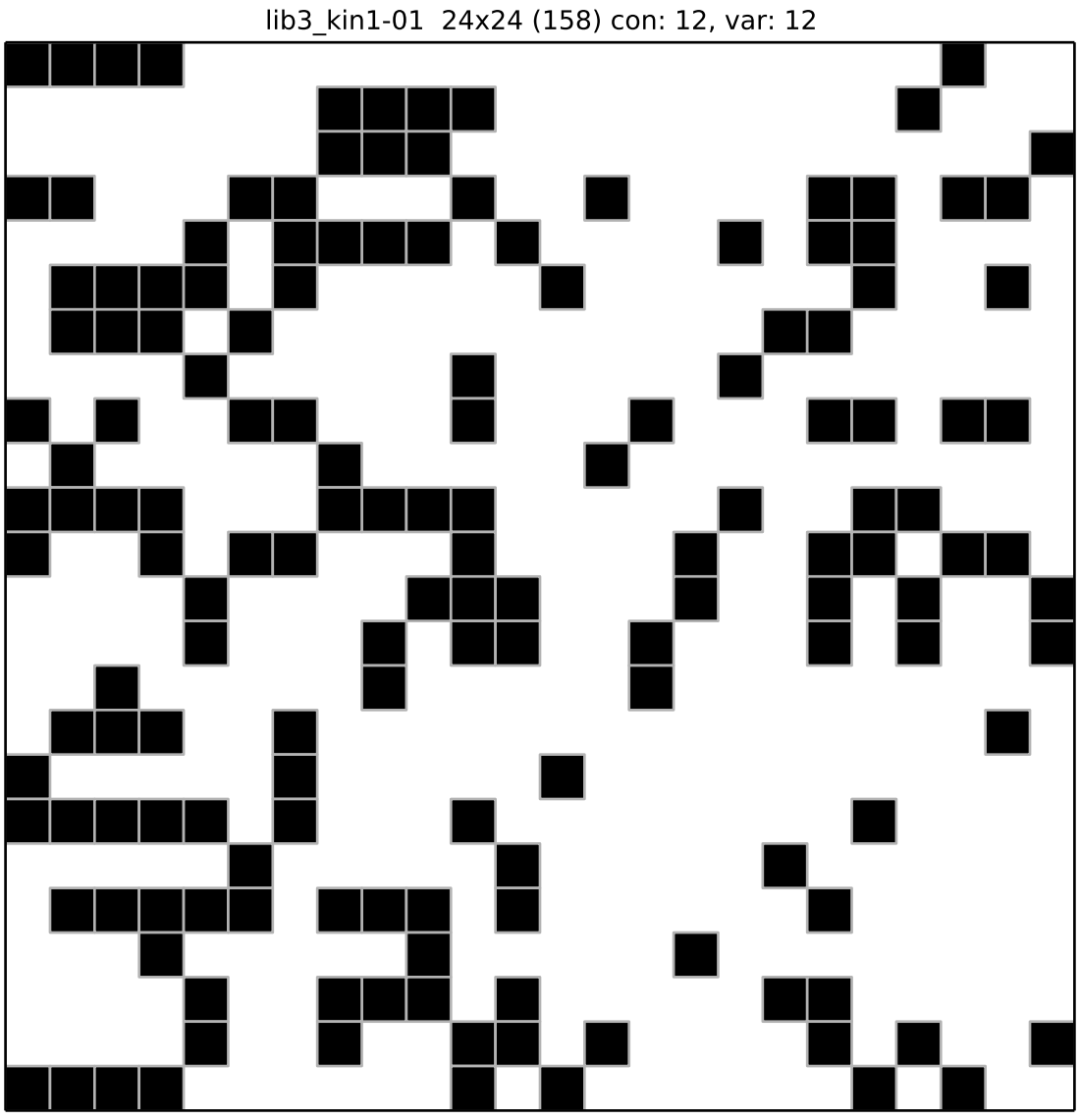
lib3_kear3-RE 8x8 (28) con: 4, var: 4

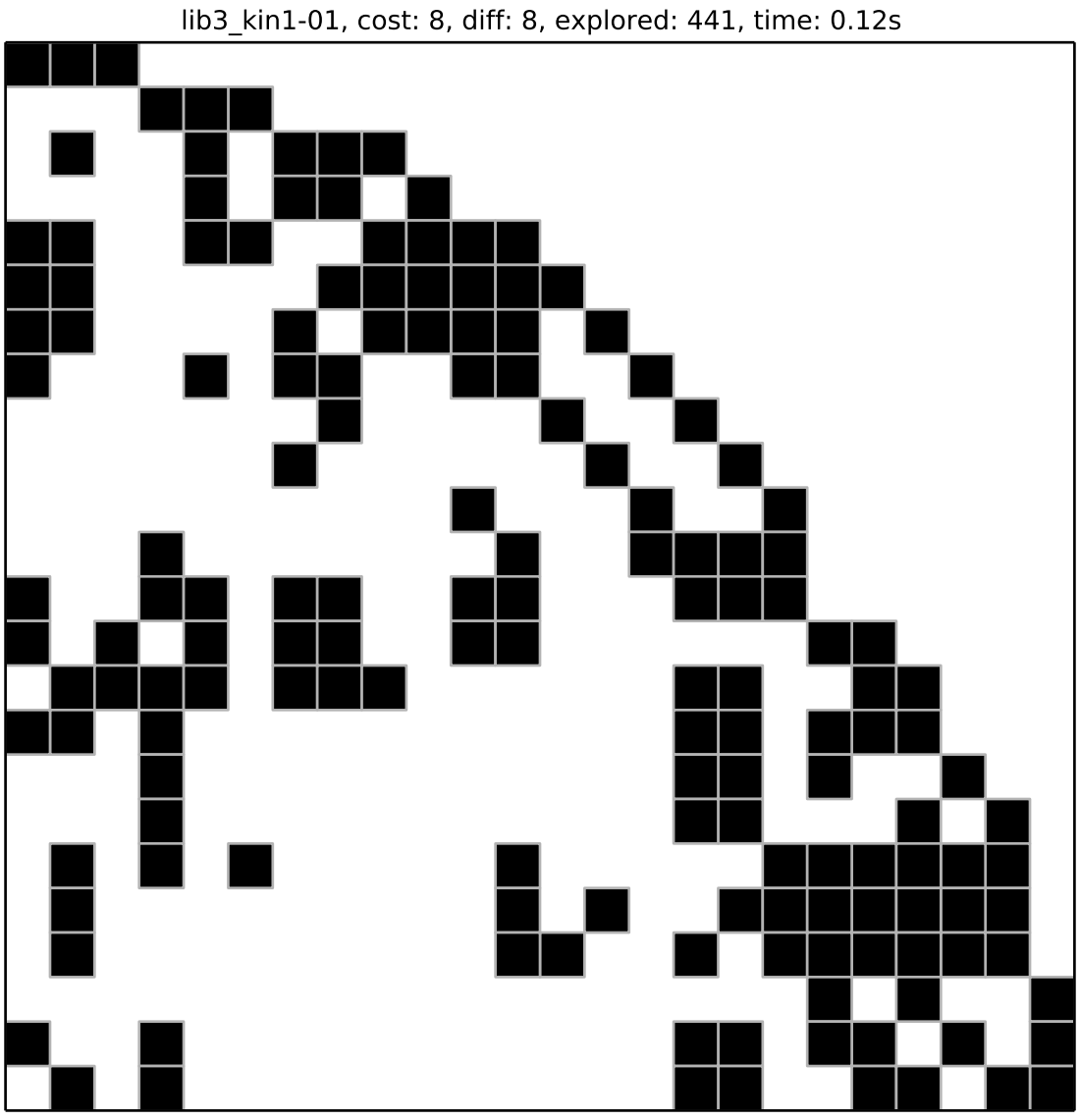



lib3_kear3-RE, cost: 2, diff: 2, explored: 3, time: 0.00s

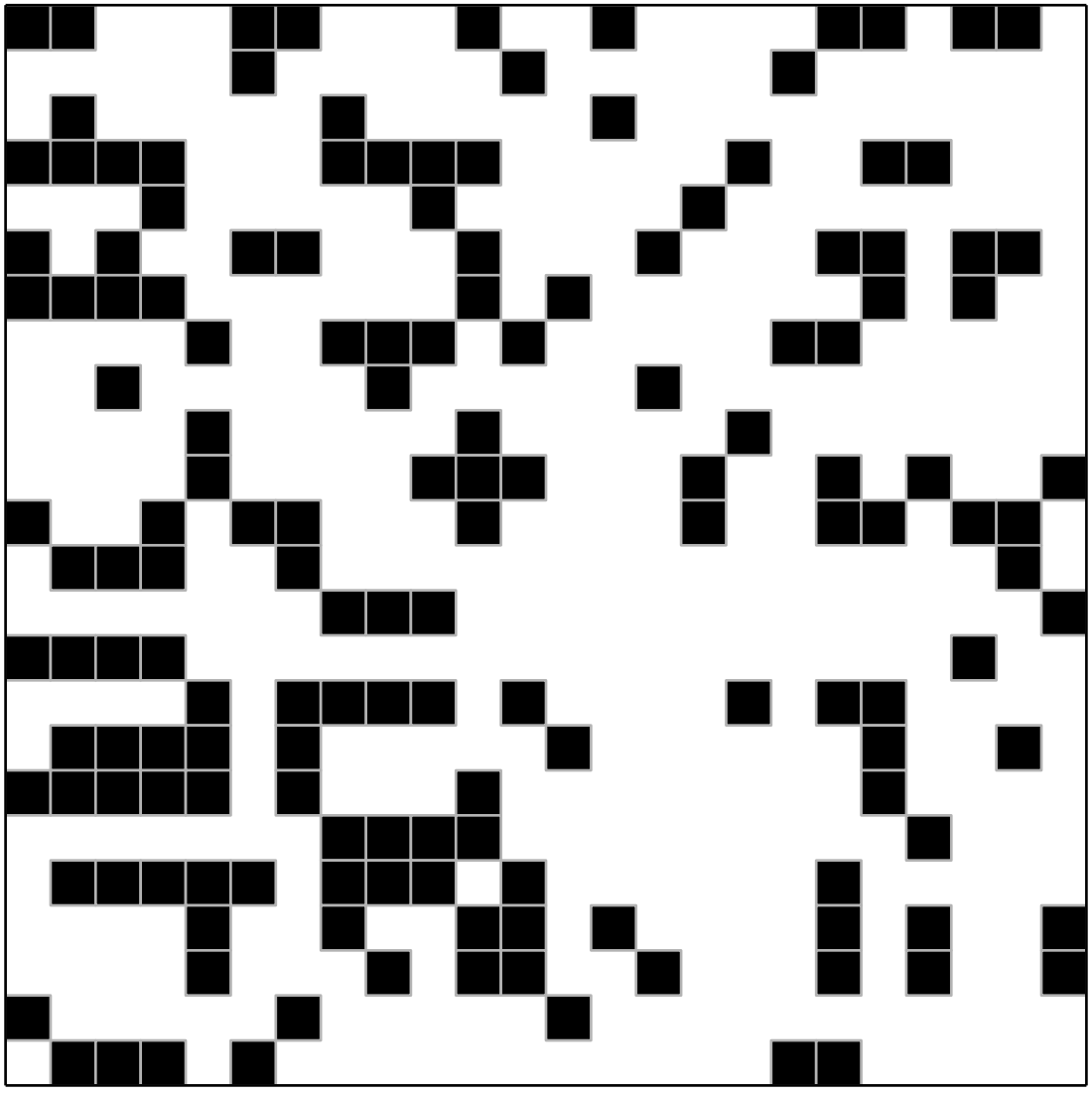

lib3_kin1-00 24x24 (158) con: 12, var: 12

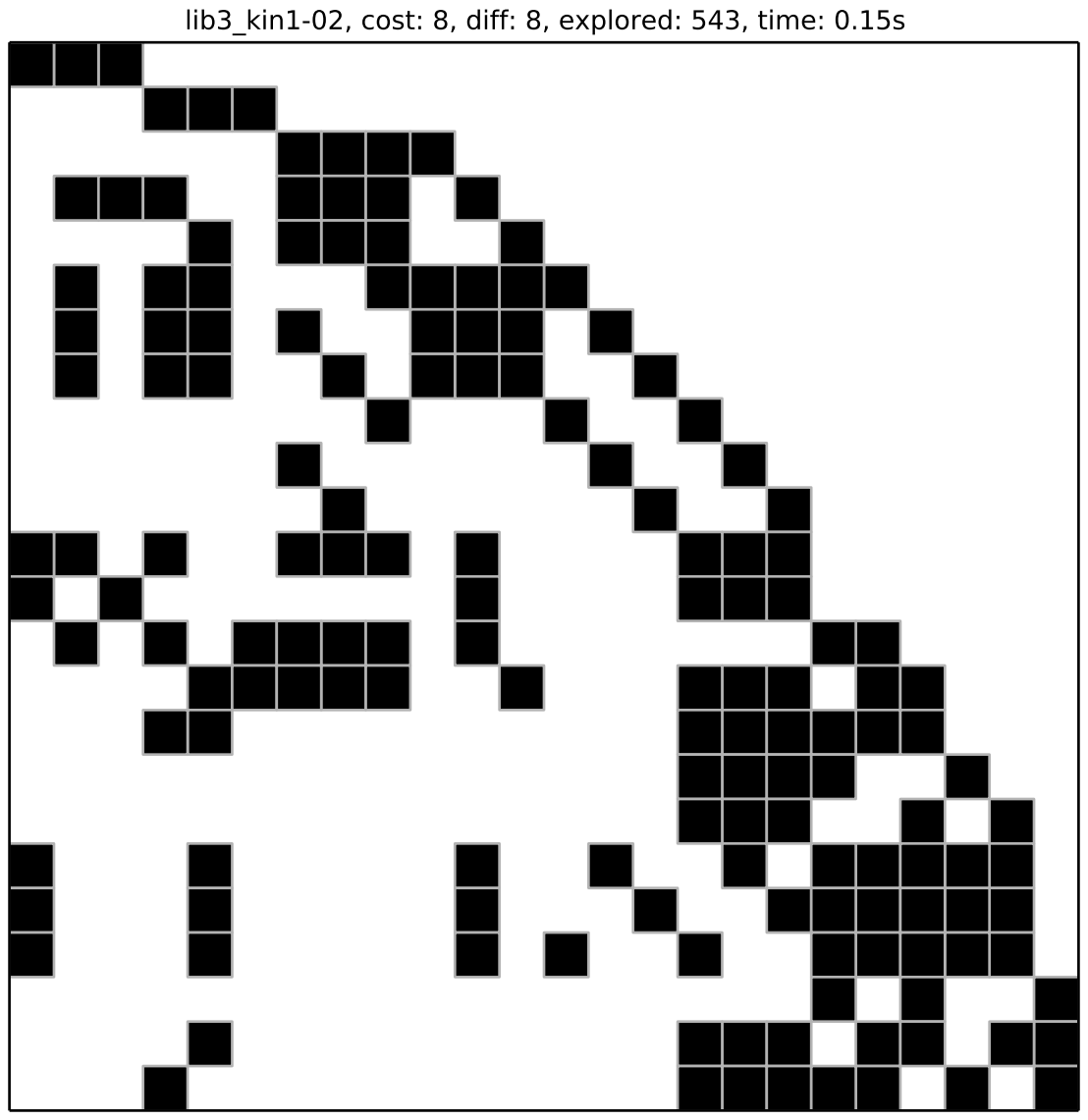

lib3_kin1-00, cost: 8, diff: 8, explored: 455, time: 0.12s


lib3_kin1-01 24x24 (158) con: 12, var: 12

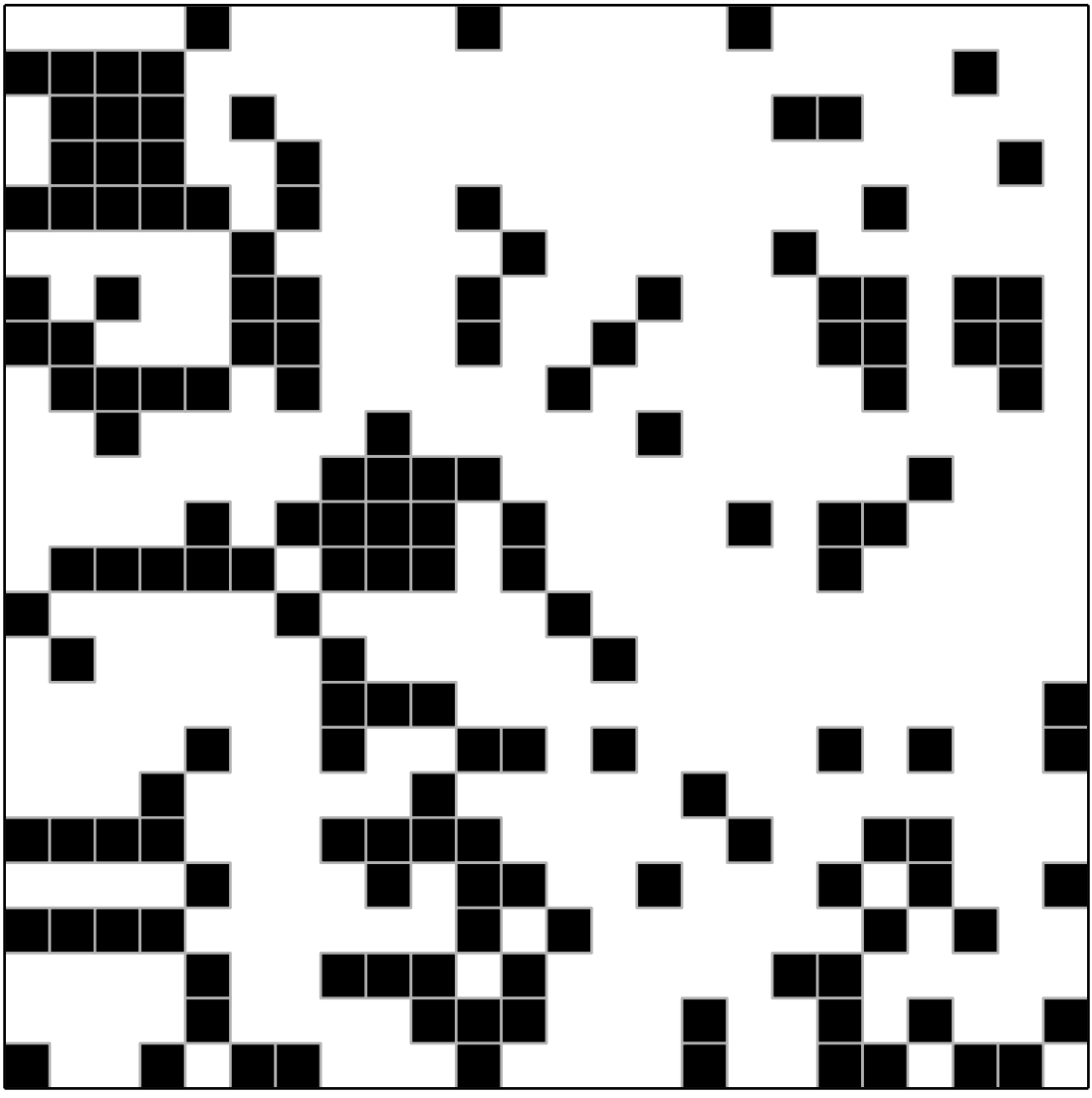

lib3_kin1-01, cost: 8, diff: 8, explored: 441, time: 0.12s

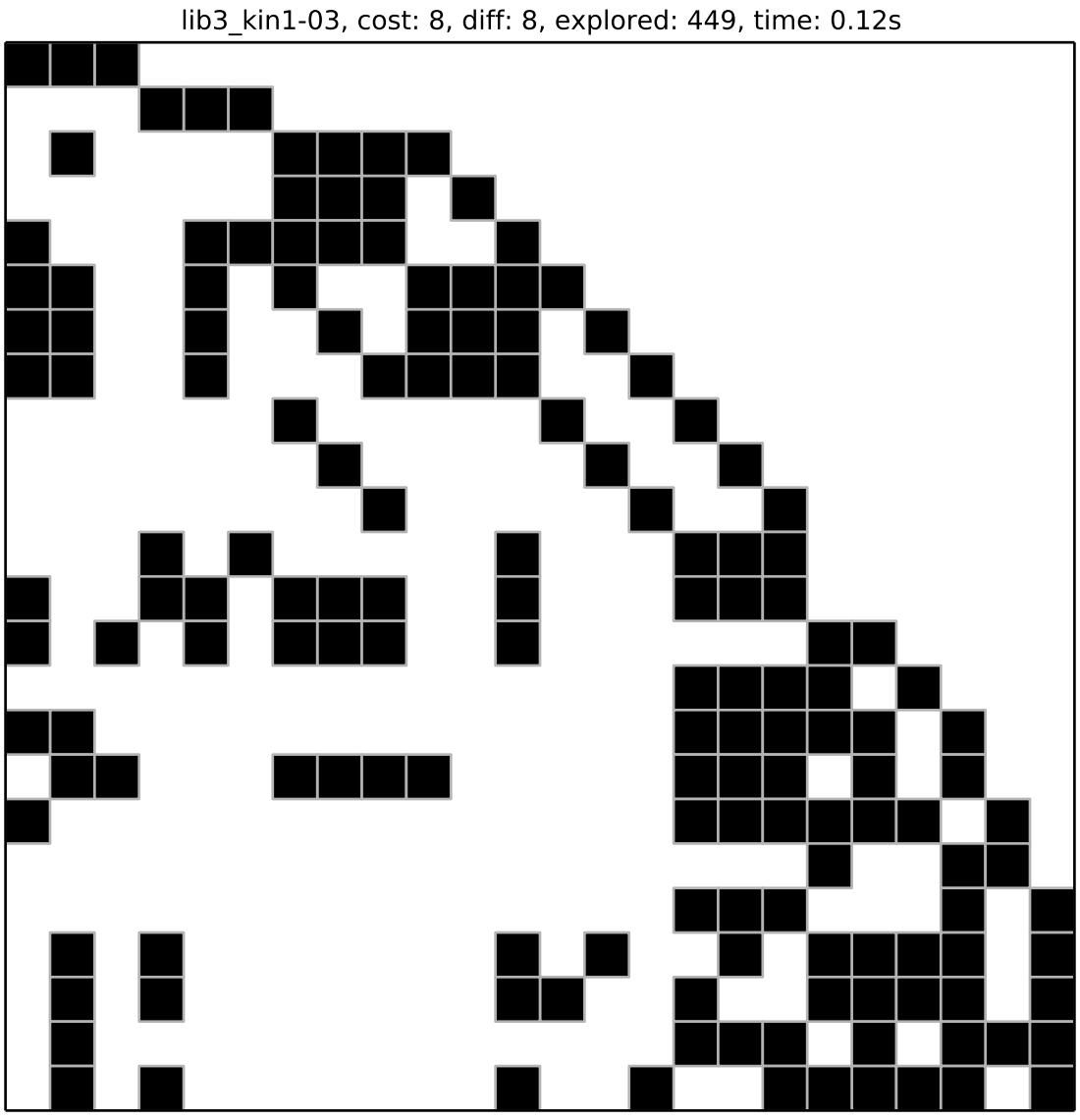
lib3_kin1-02 24x24 (158) con: 12, var: 12



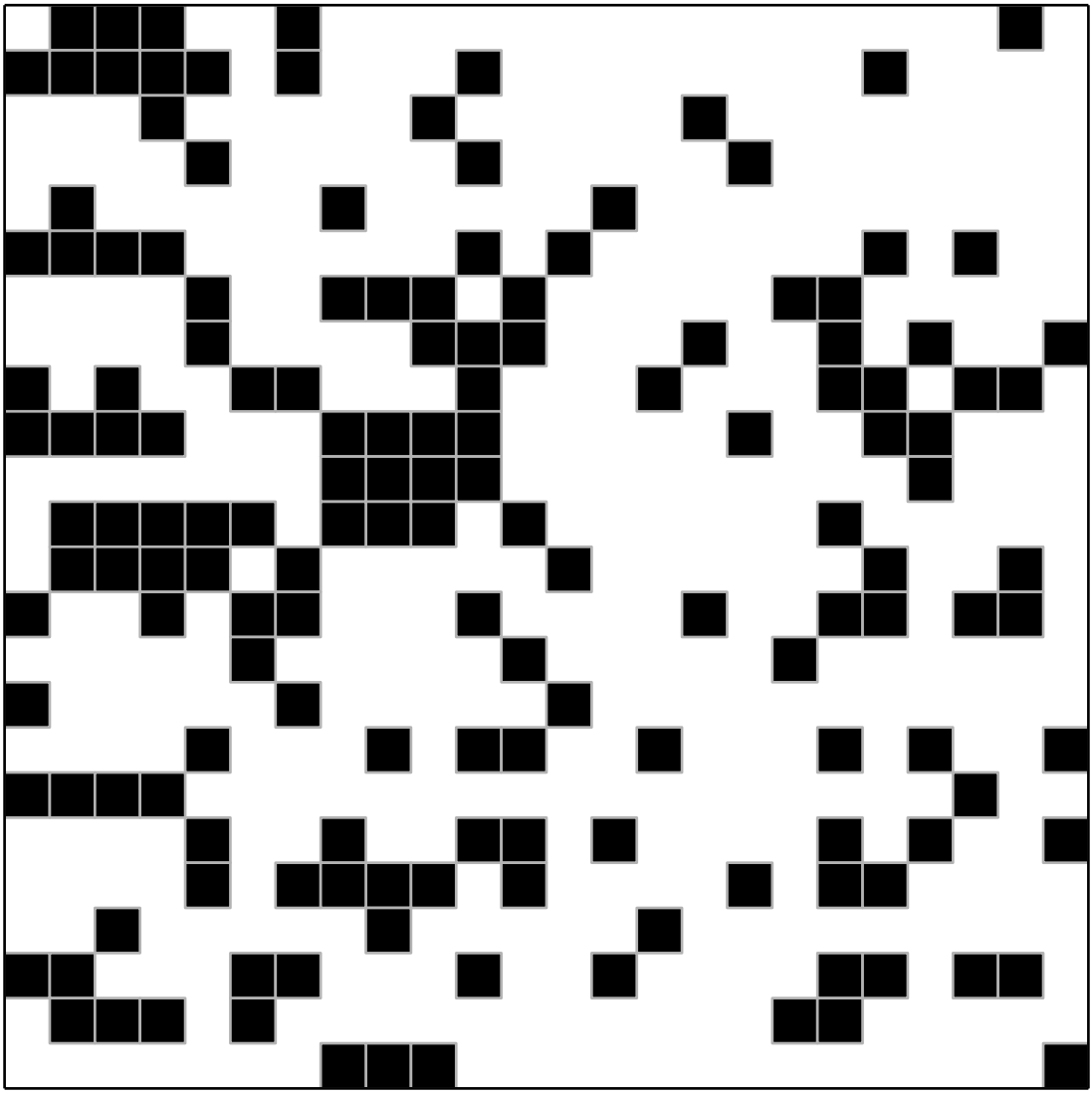

lib3_kin1-02, cost: 8, diff: 8, explored: 543, time: 0.15s

lib3_kin1-03 24x24 (158) con: 12, var: 12

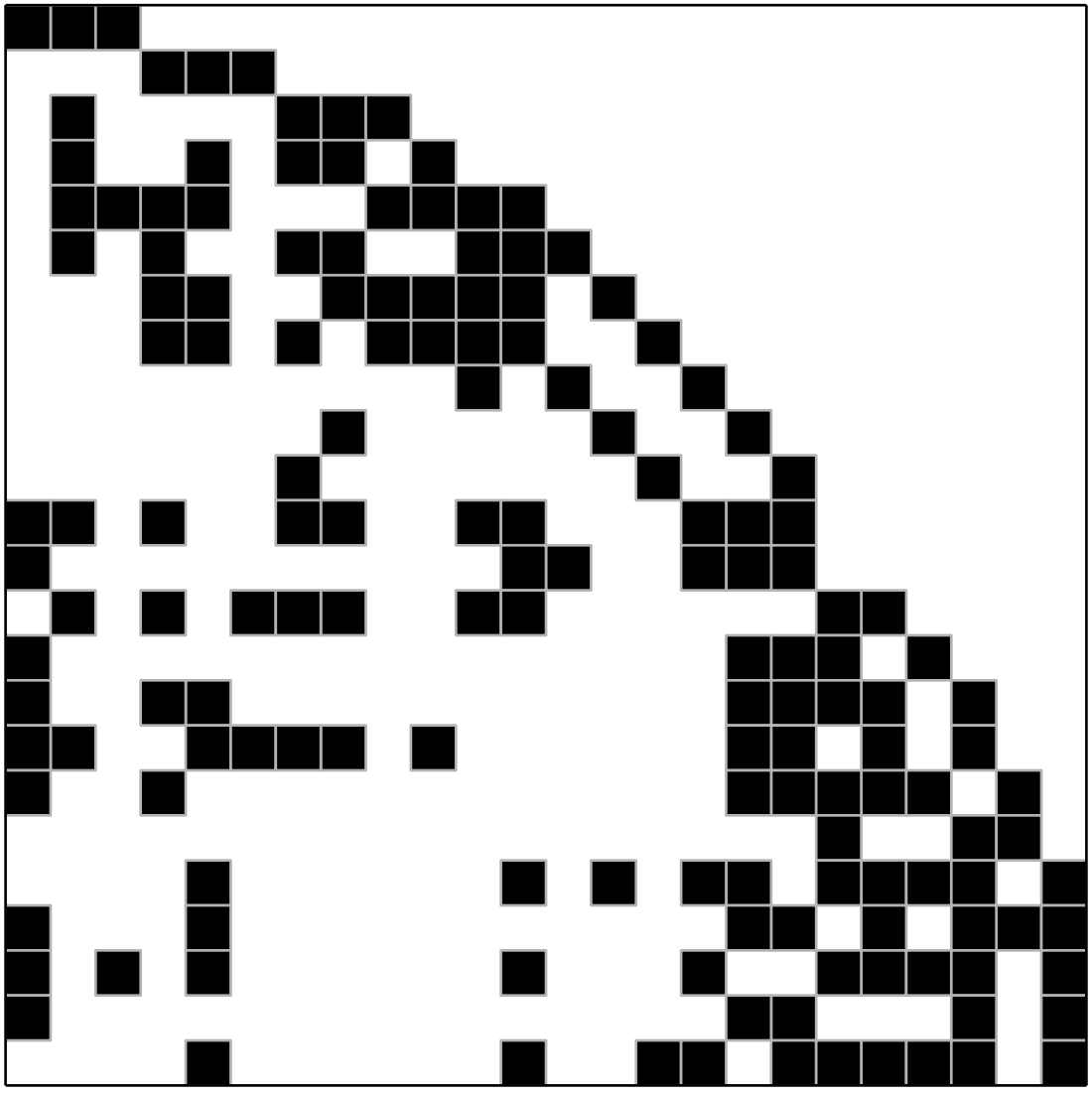


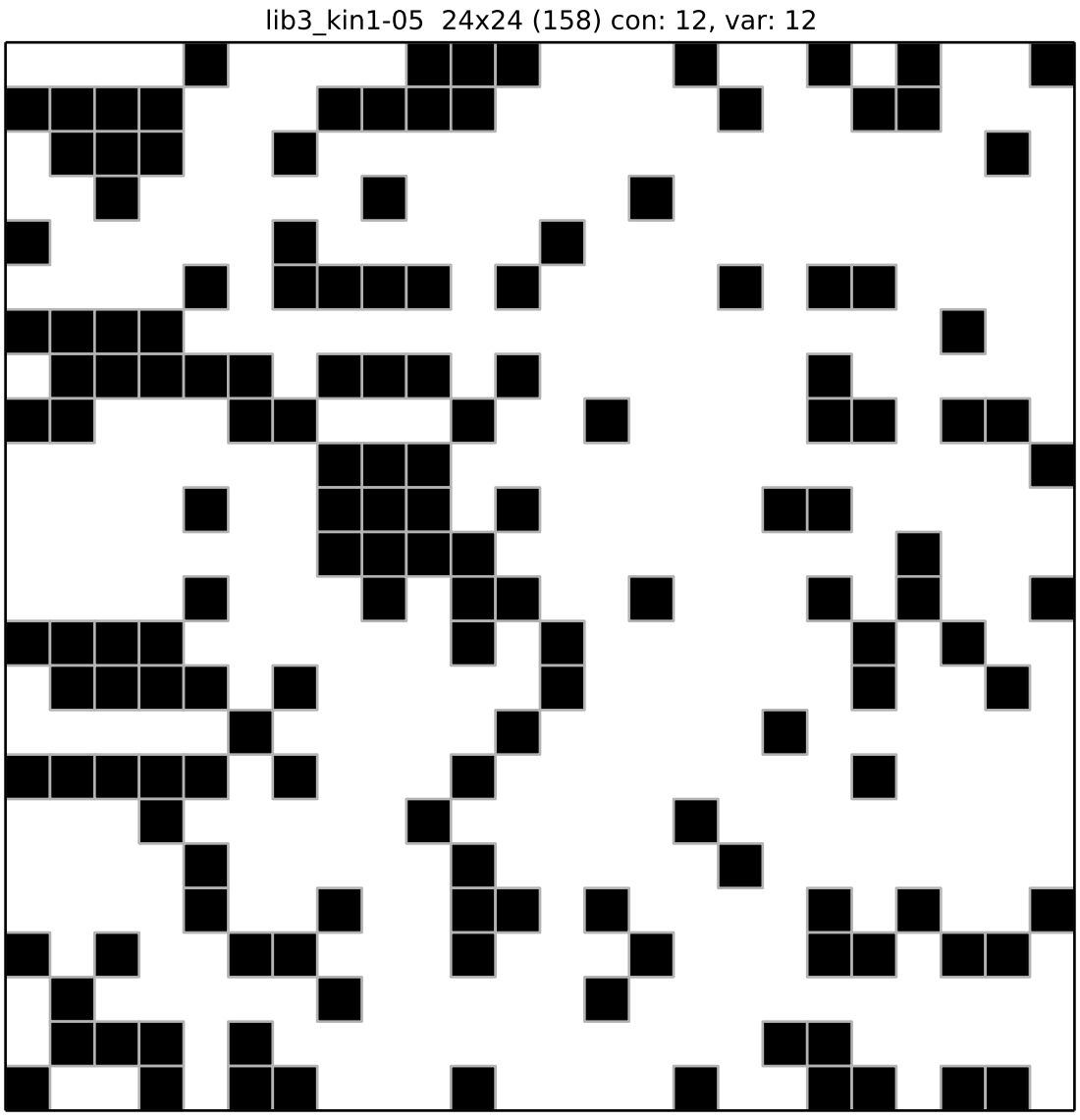

lib3_kin1-03, cost: 8, diff: 8, explored: 449, time: 0.12s

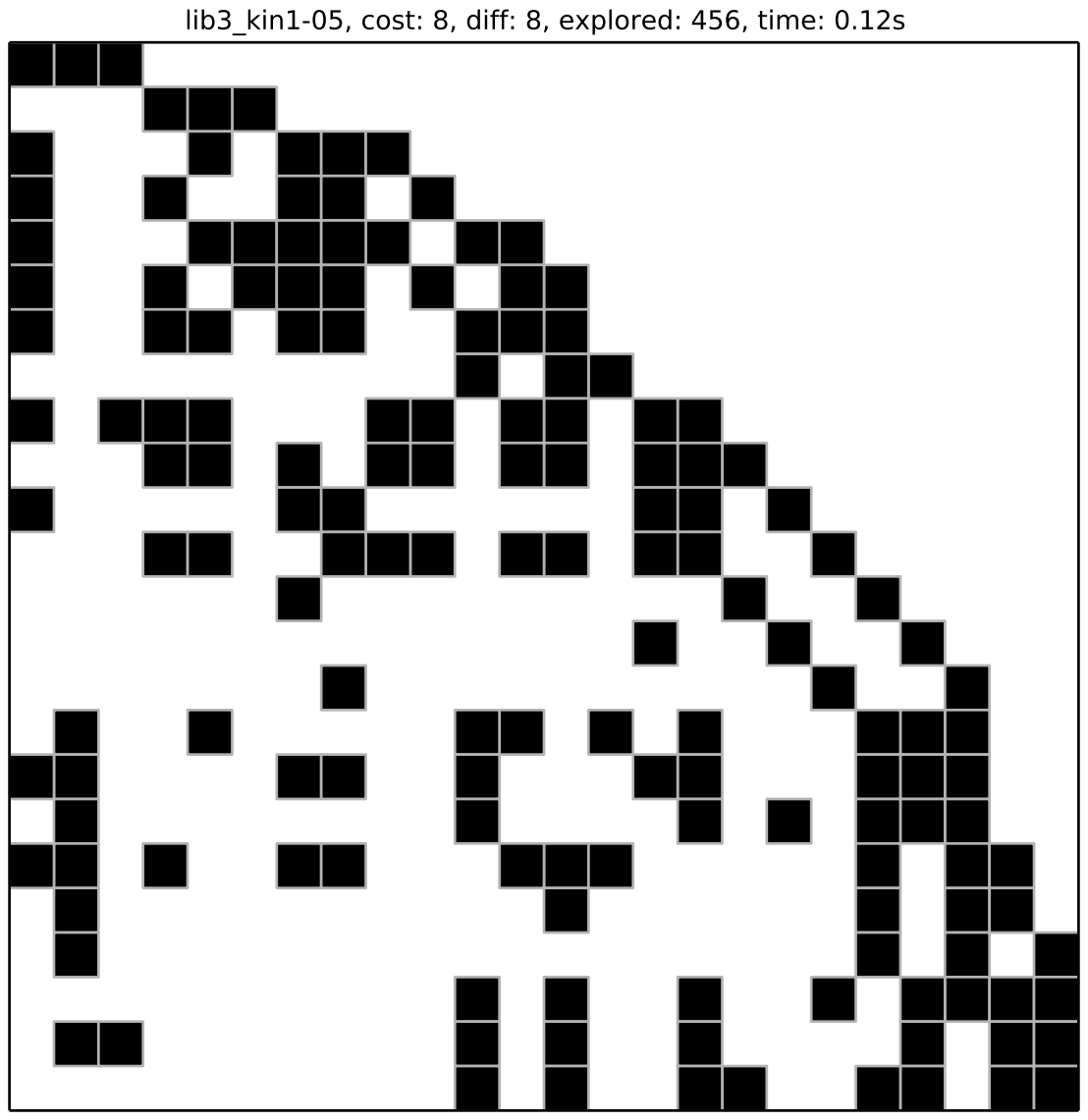
lib3_kin1-04 24x24 (158) con: 12, var: 12



lib3_kin1-04, cost: 8, diff: 8, explored: 444, time: 0.12s




lib3_kin1-05 24x24 (158) con: 12, var: 12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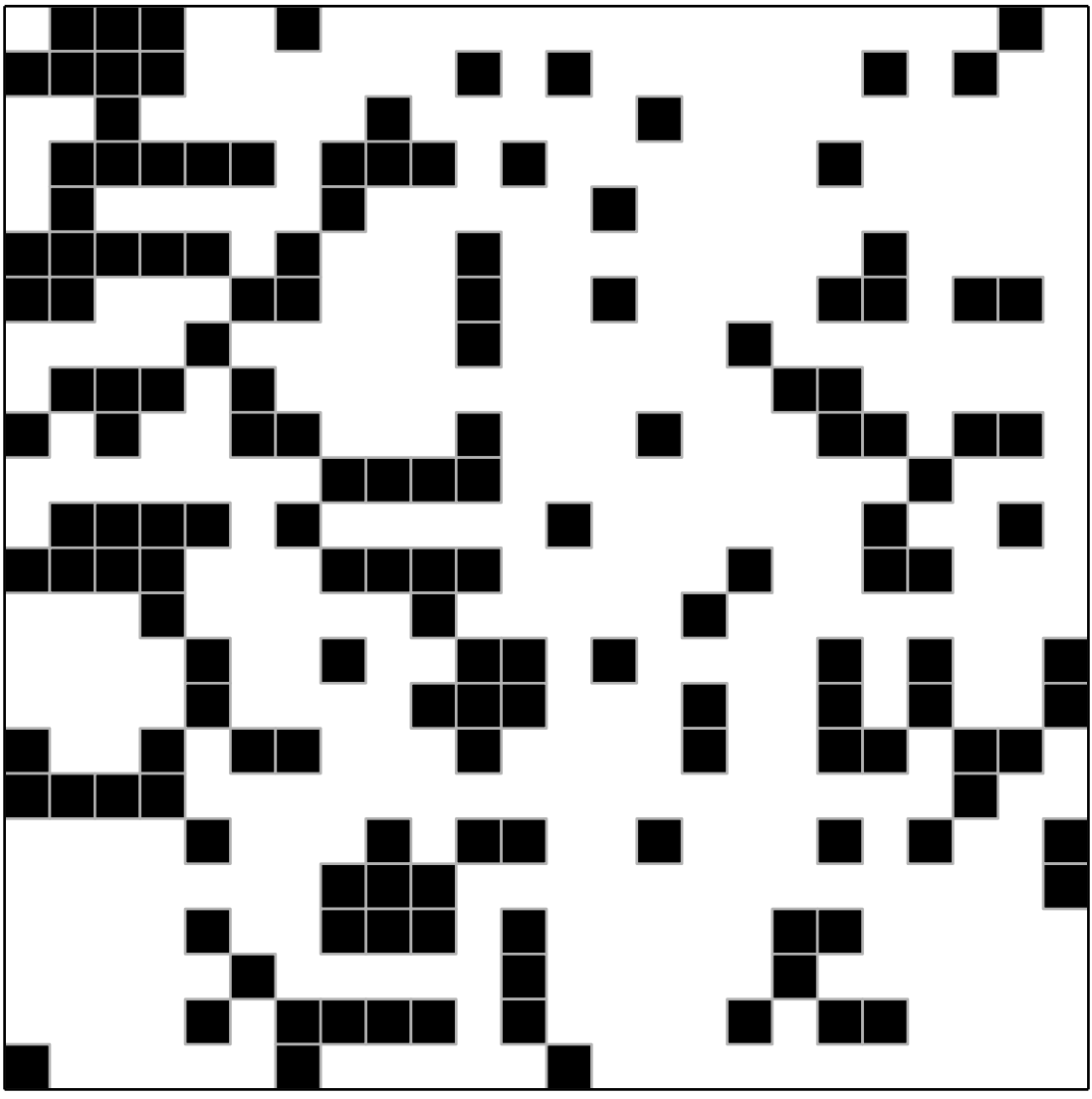
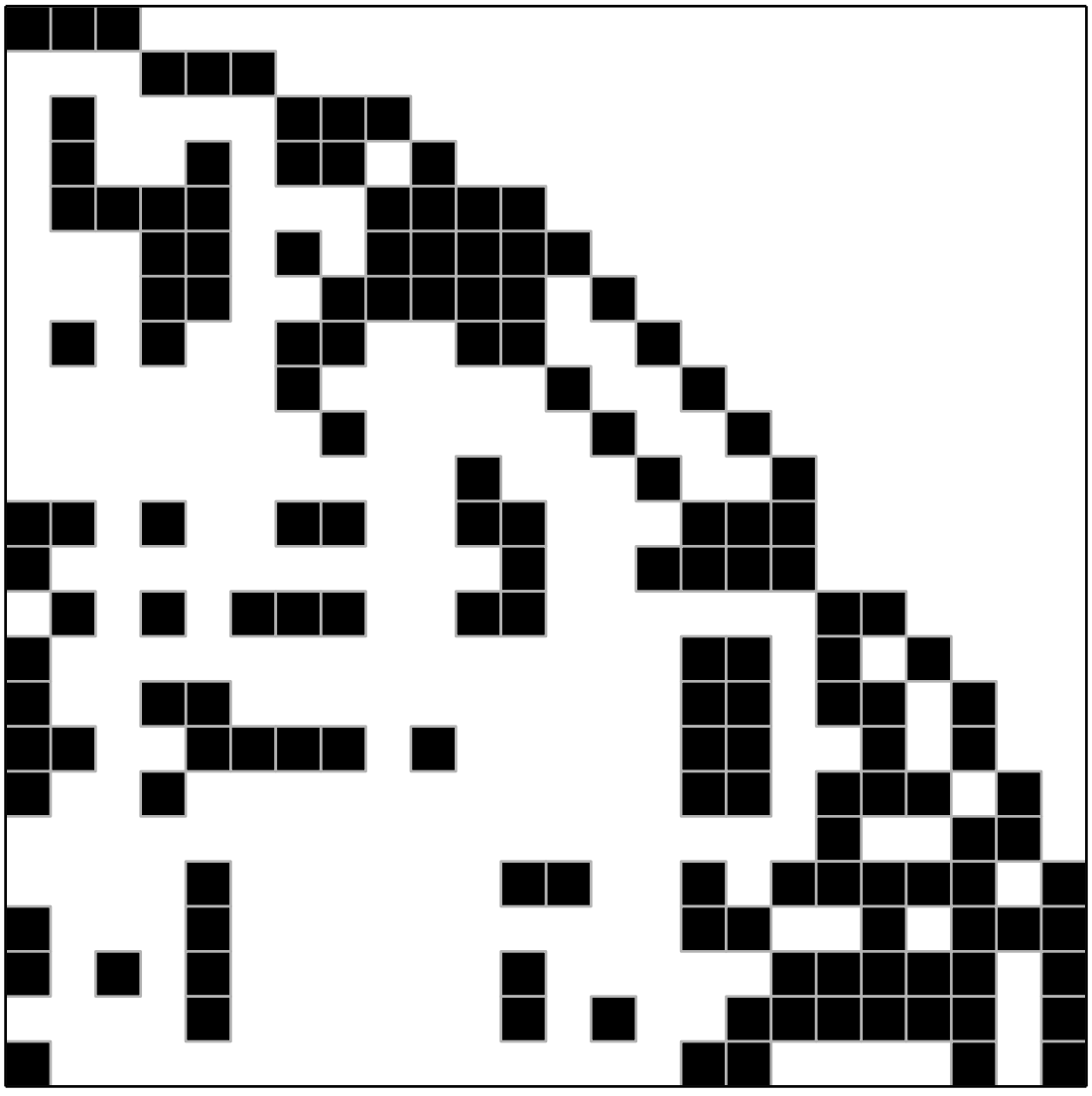

lib3_kin1-06 24x24 (158) con: 12, var: 12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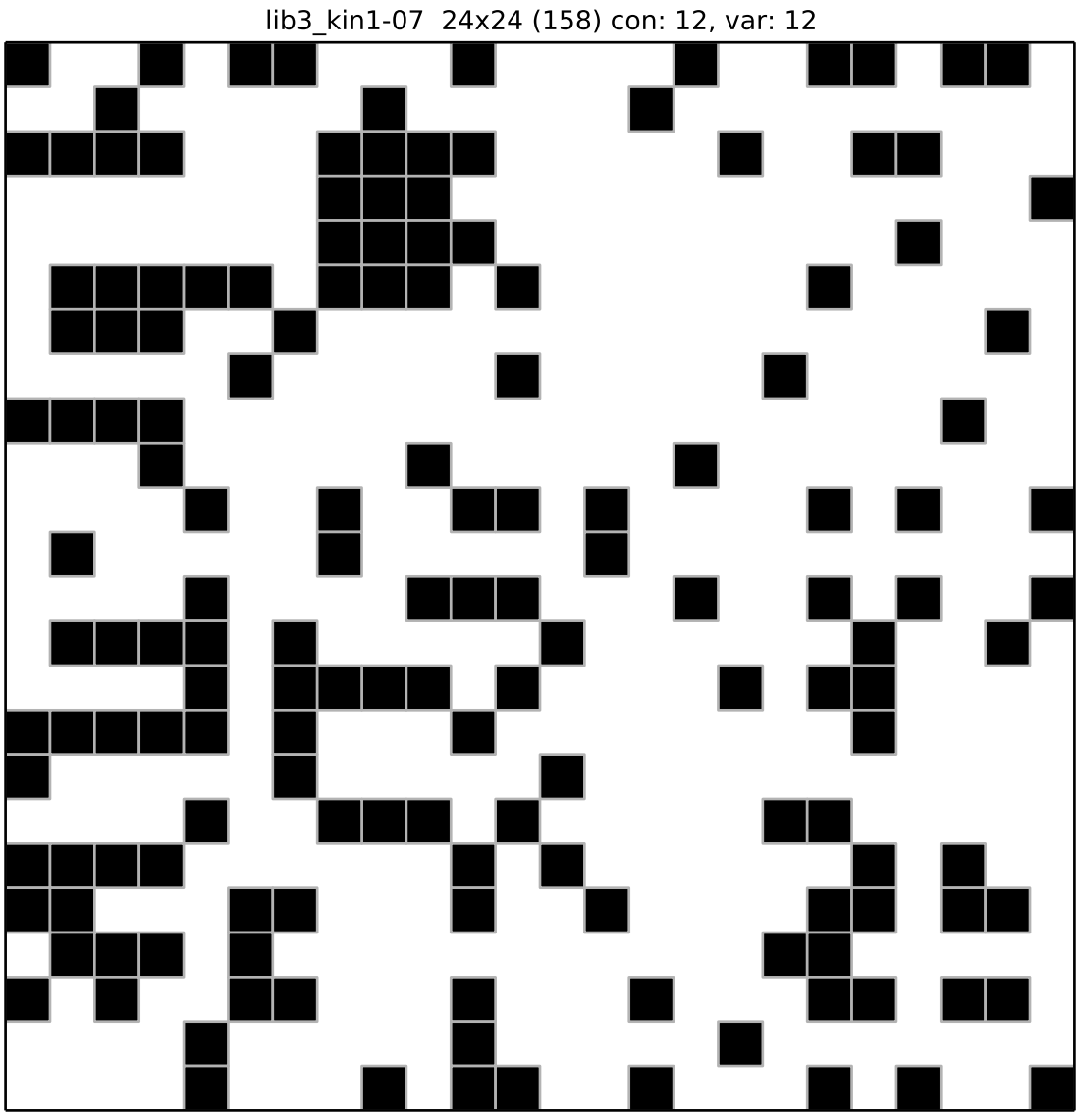
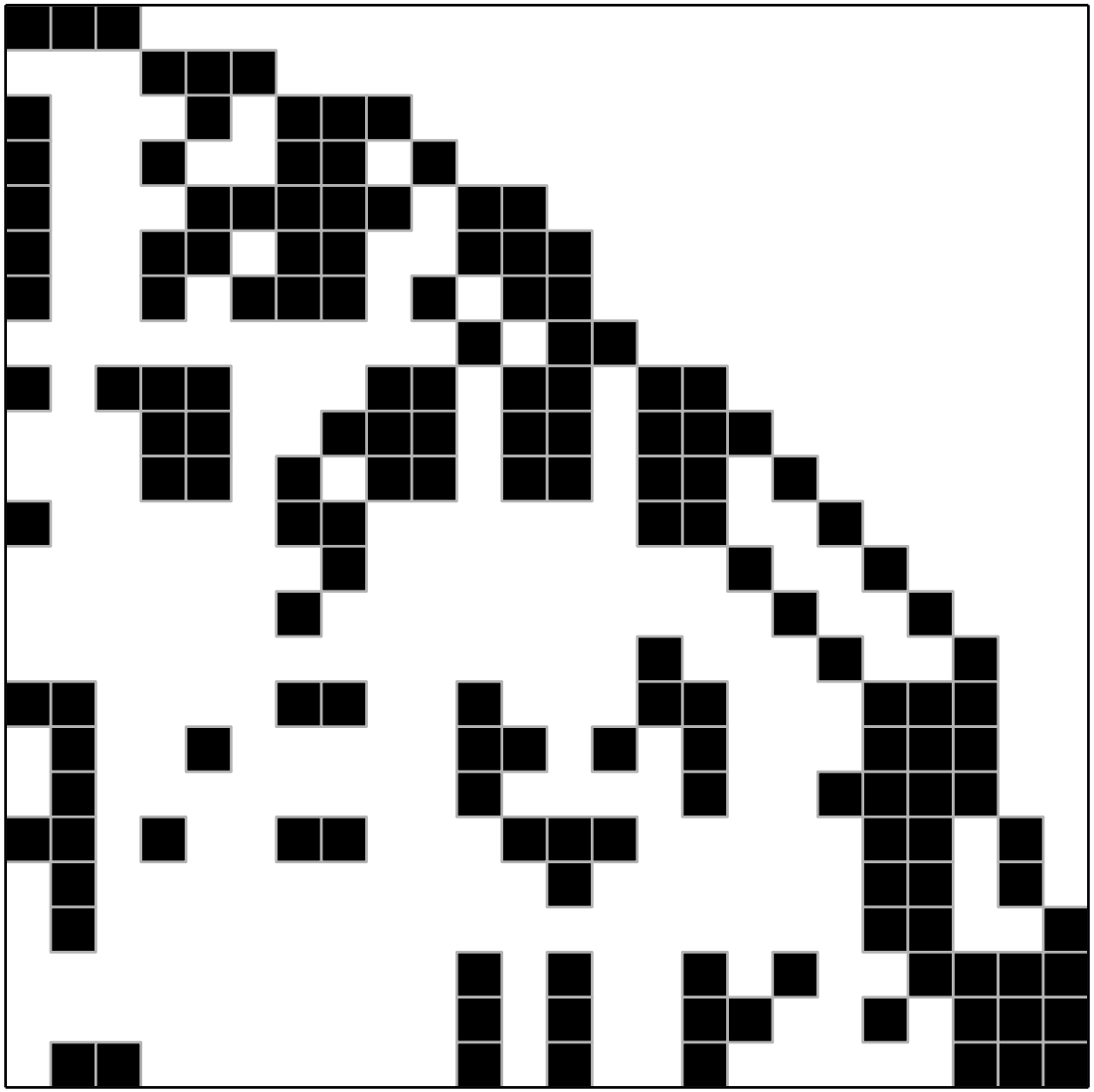
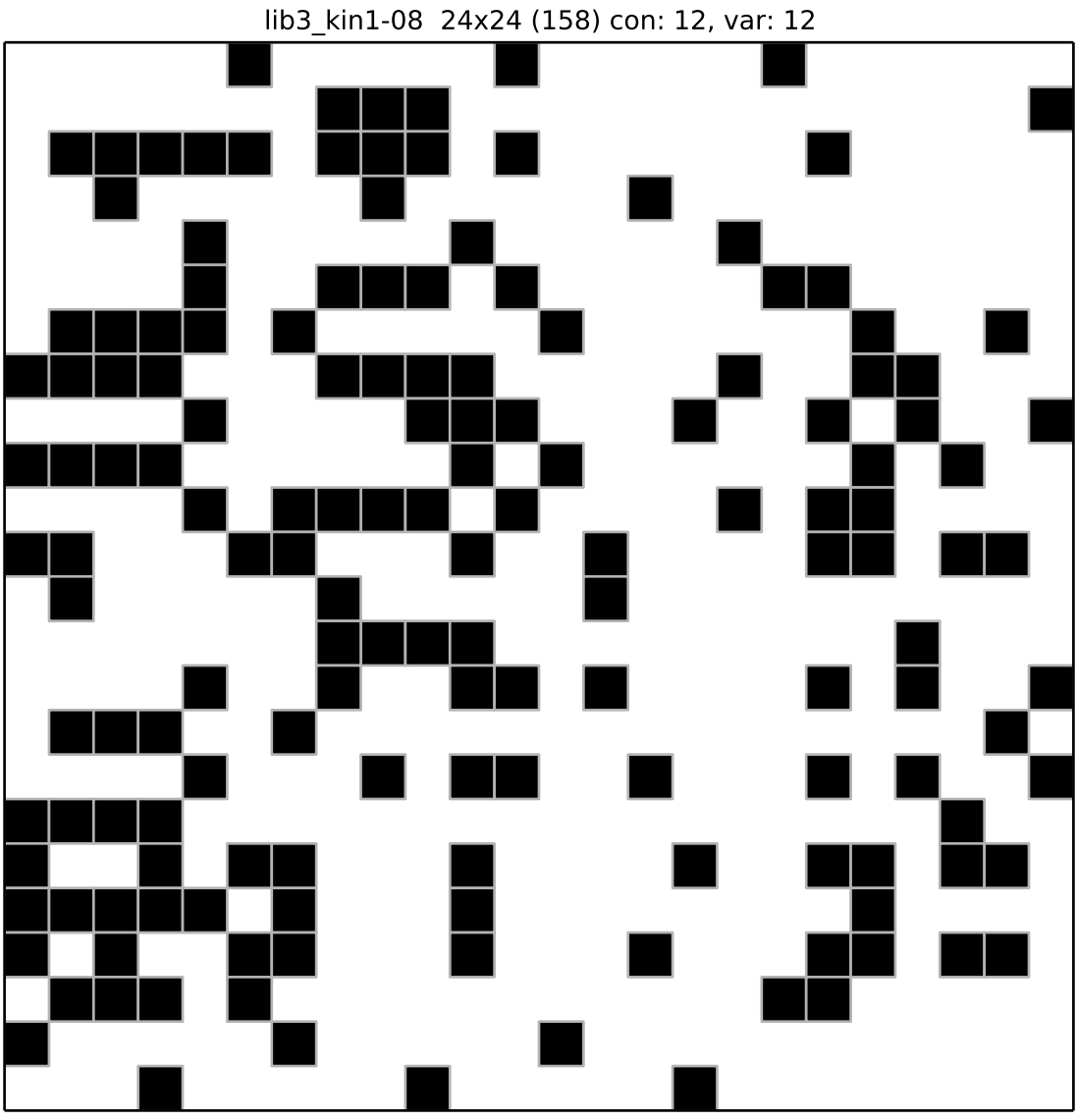
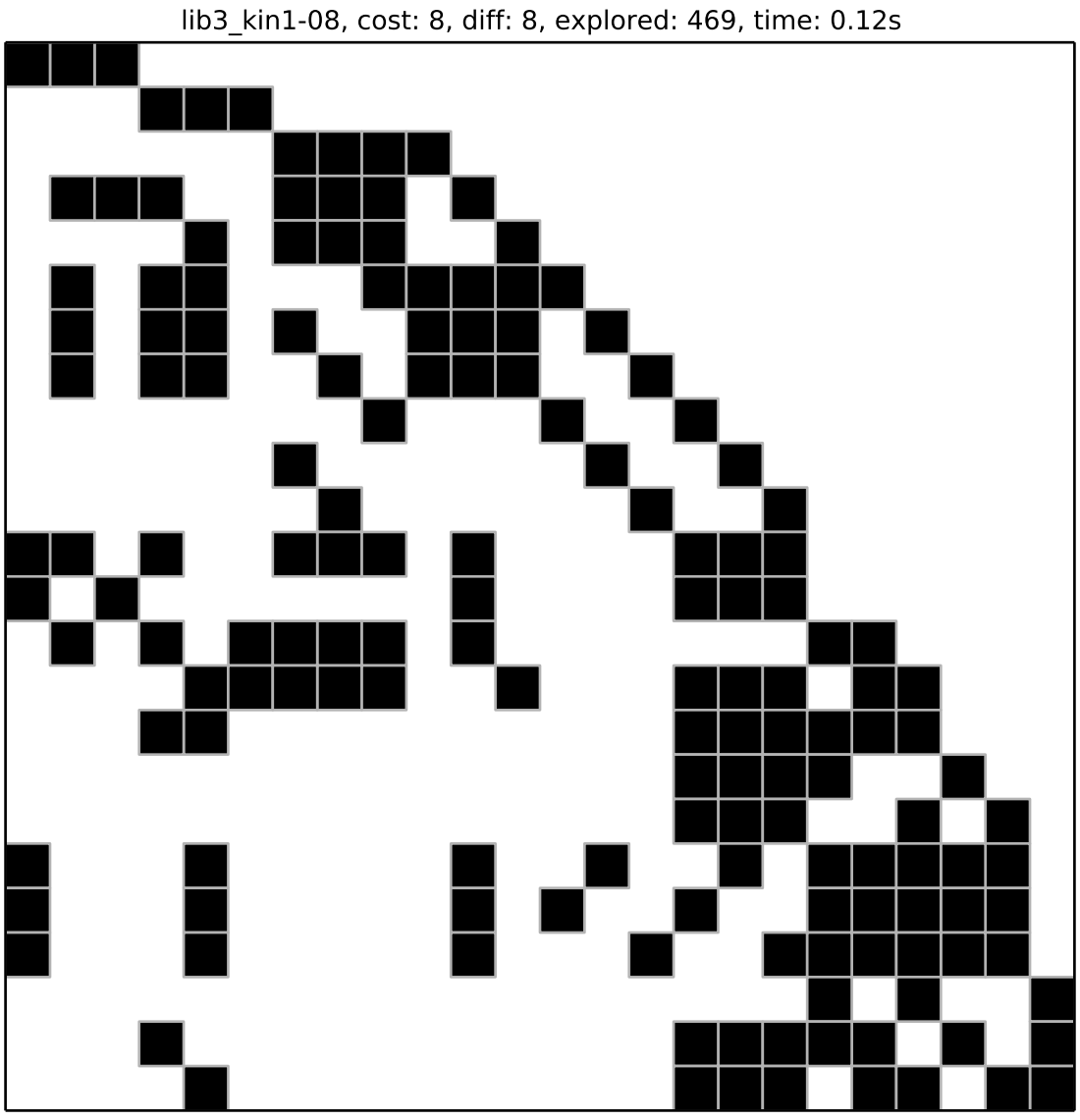

lib3_kin1-07 24x24 (158) con: 12, var: 12

lib3_kin1-07, cost: 8, diff: 8, explored: 530, time: 0.14s




lib3_kin1-08 24x24 (158) con: 12, var: 12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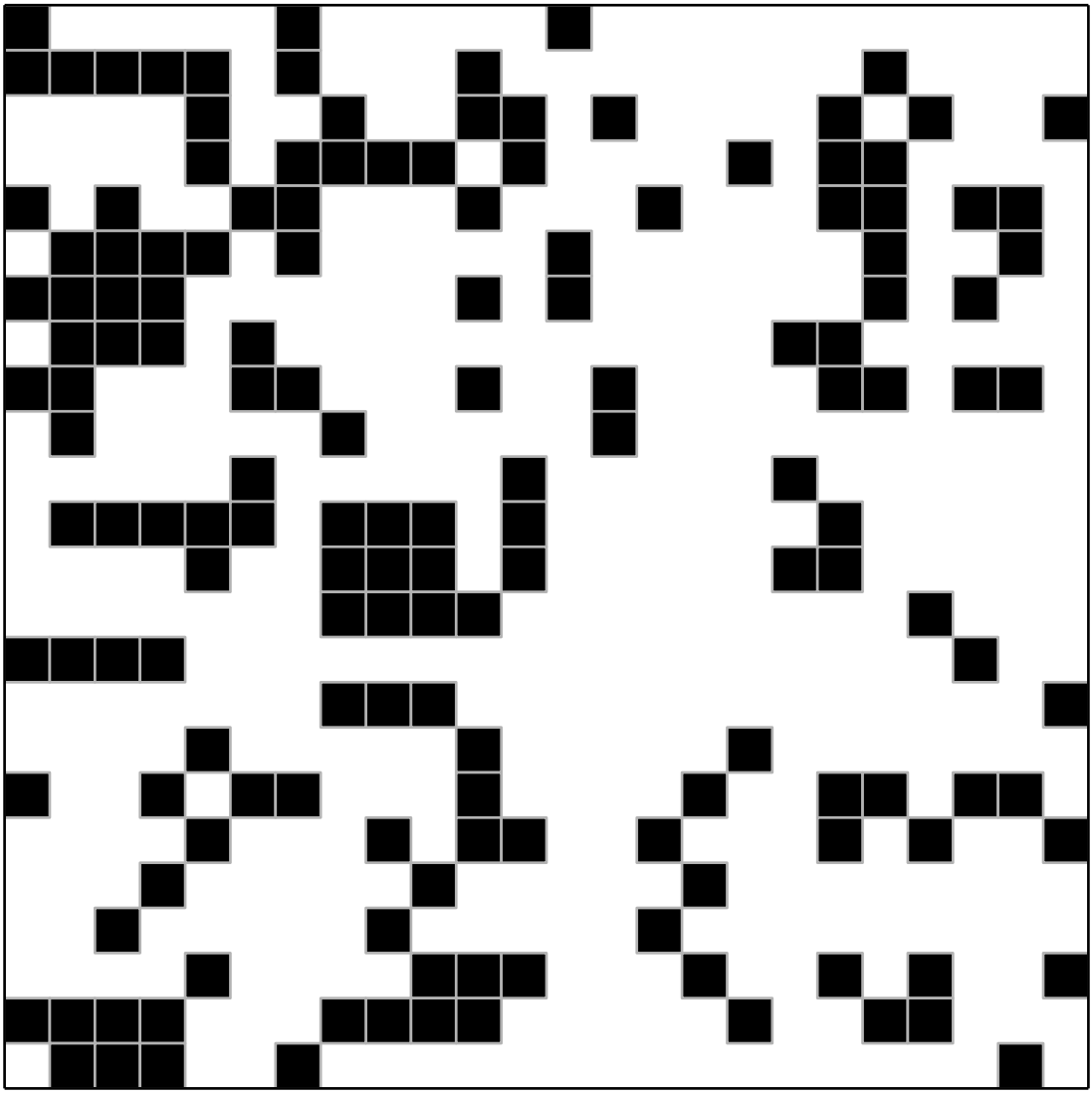
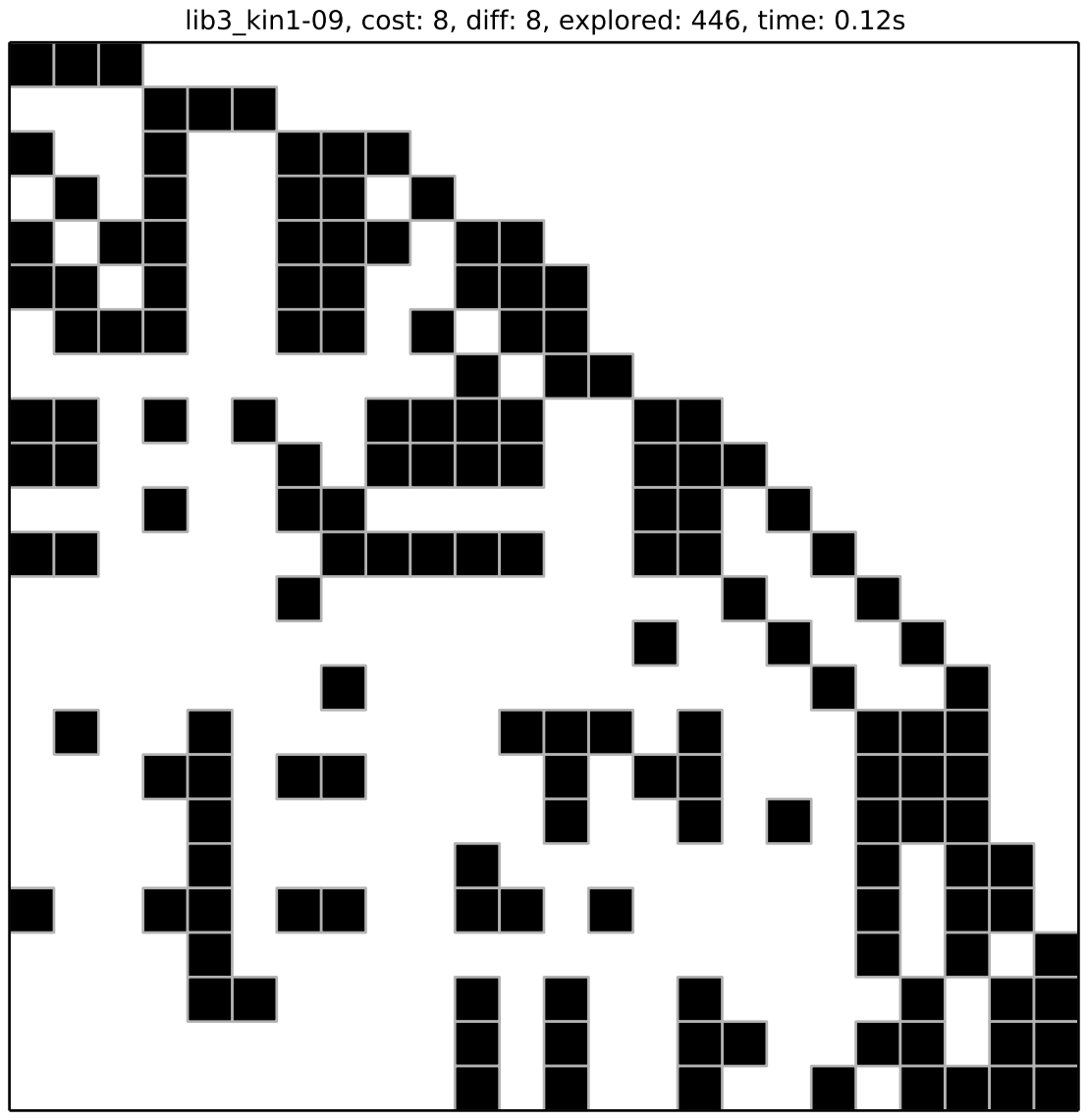
lib3_kin1-09 24x24 (158) con: 12, var: 12

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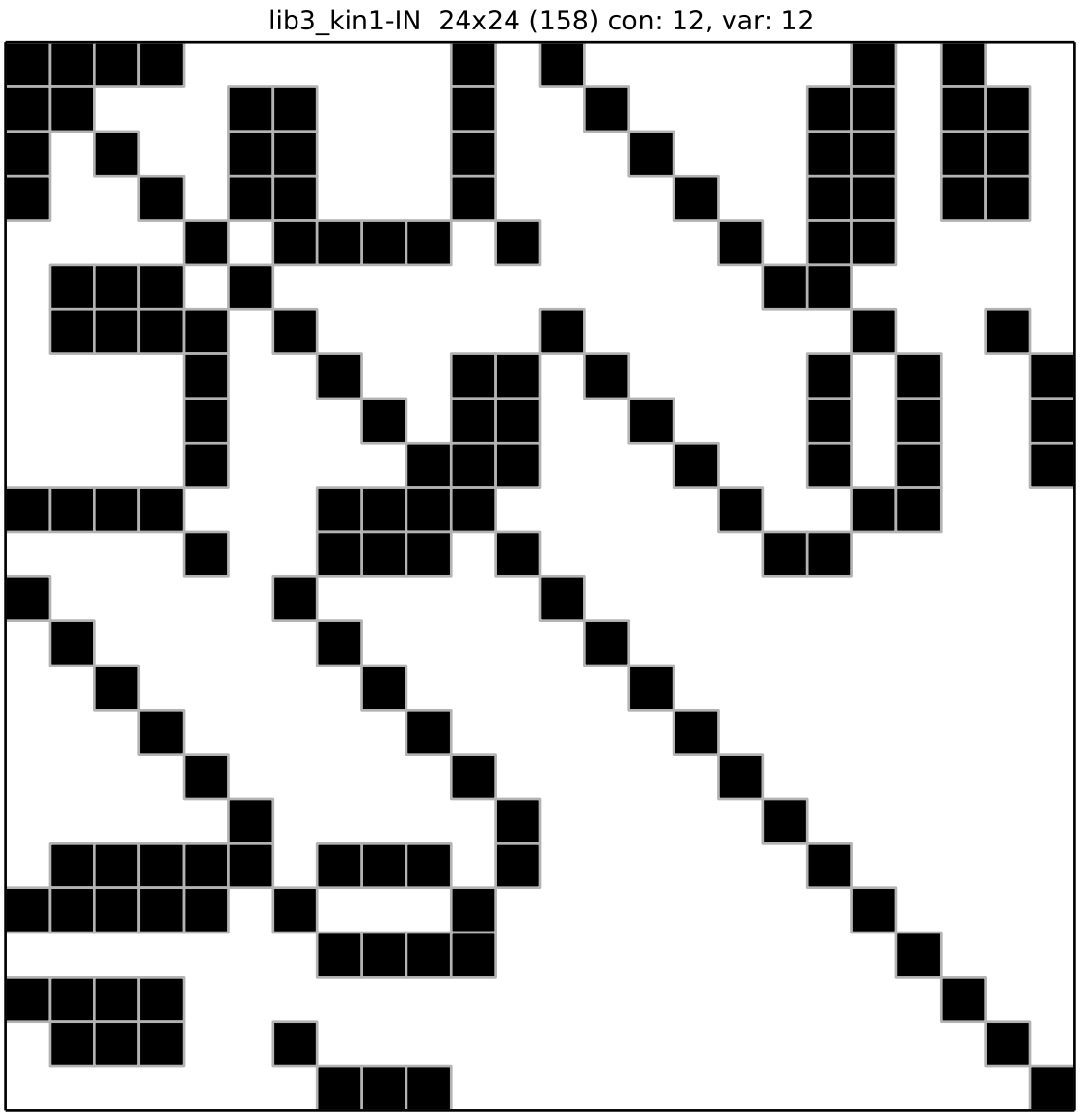
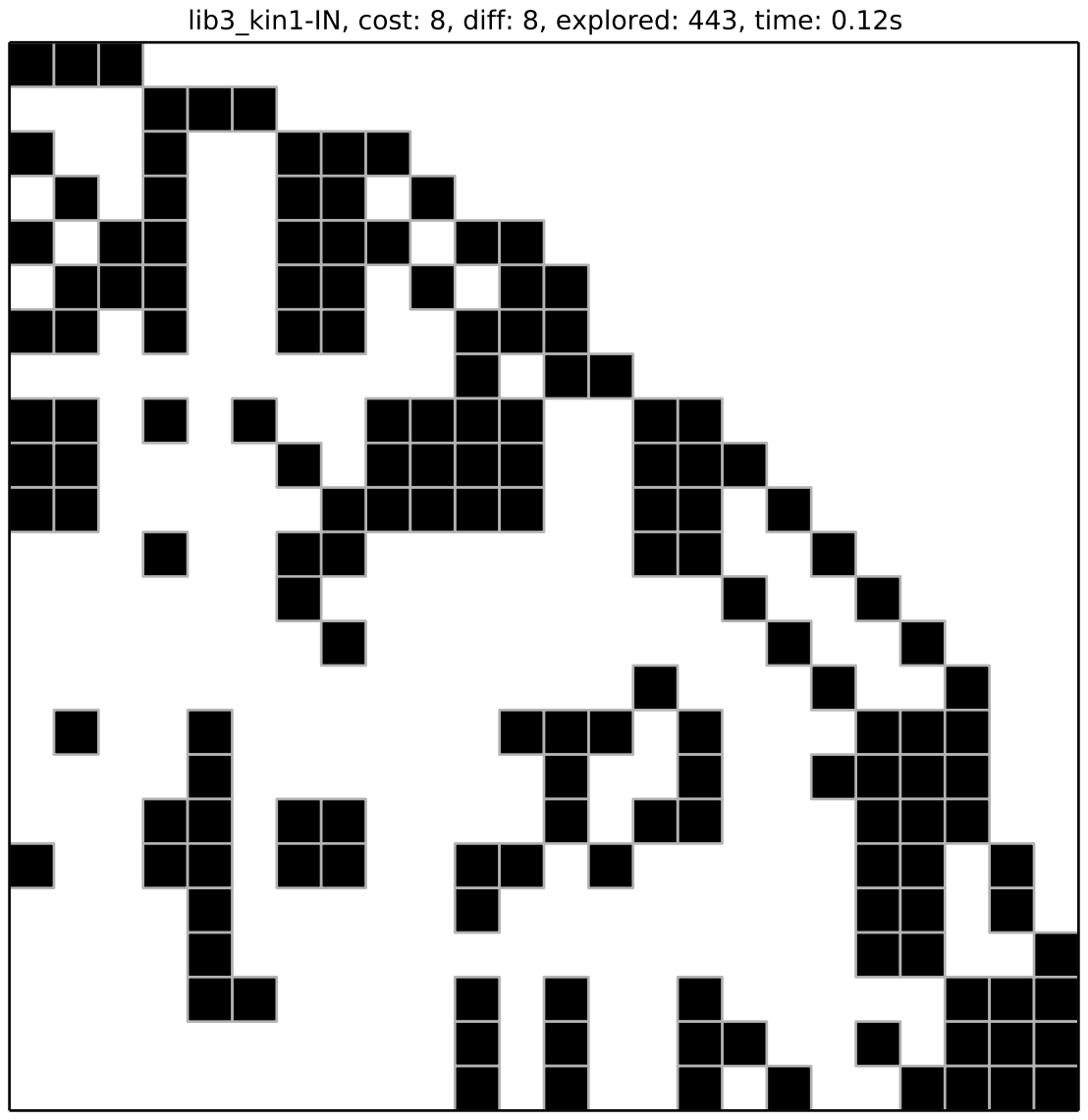
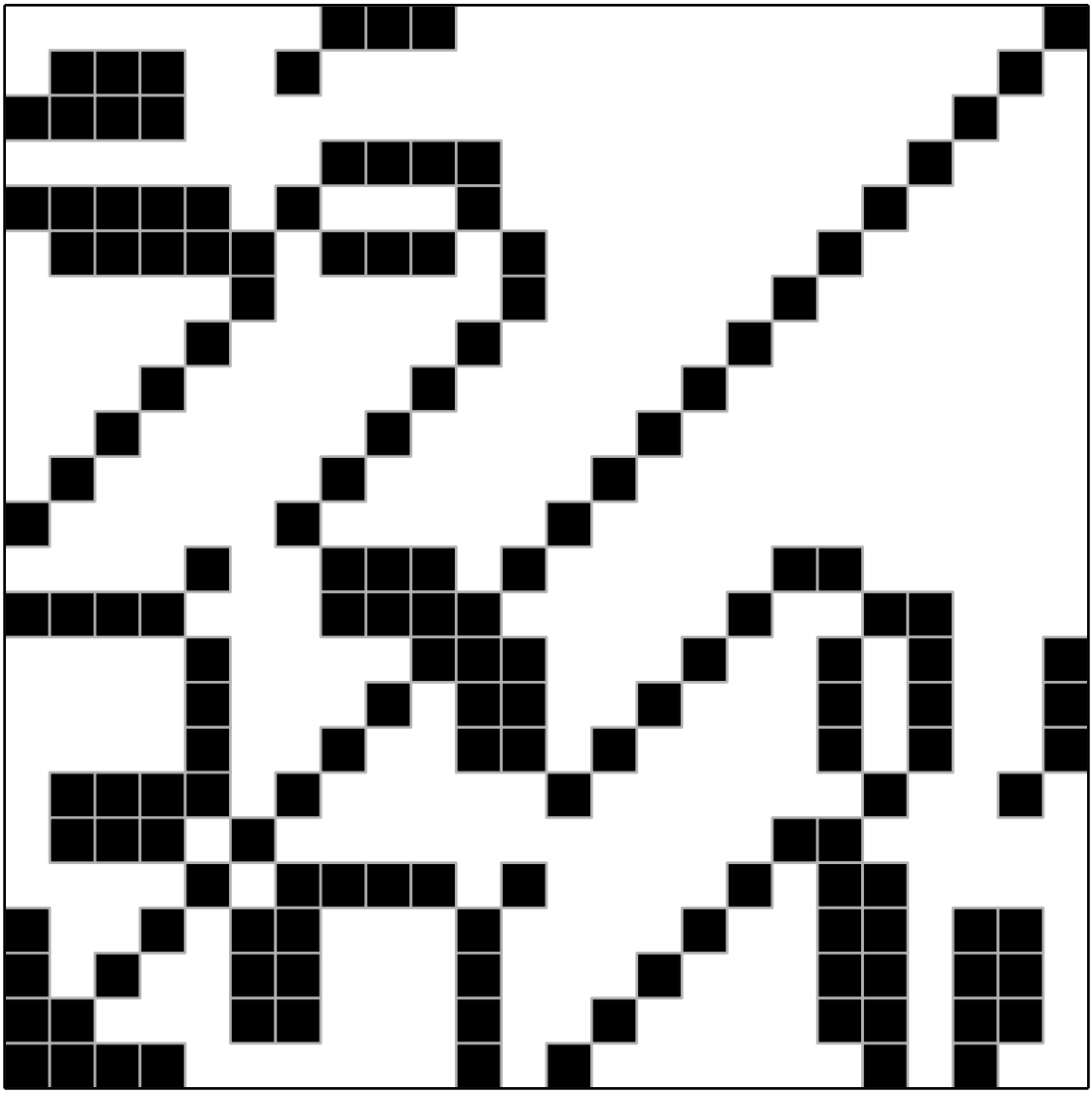

lib3_kin1-IN 24x24 (158) con: 12, var: 12


lib3_kin1-IN, cost: 8, diff: 8, explored: 443, time: 0.12s

lib3_kin1-RE 24x24 (158) con: 12, var: 12



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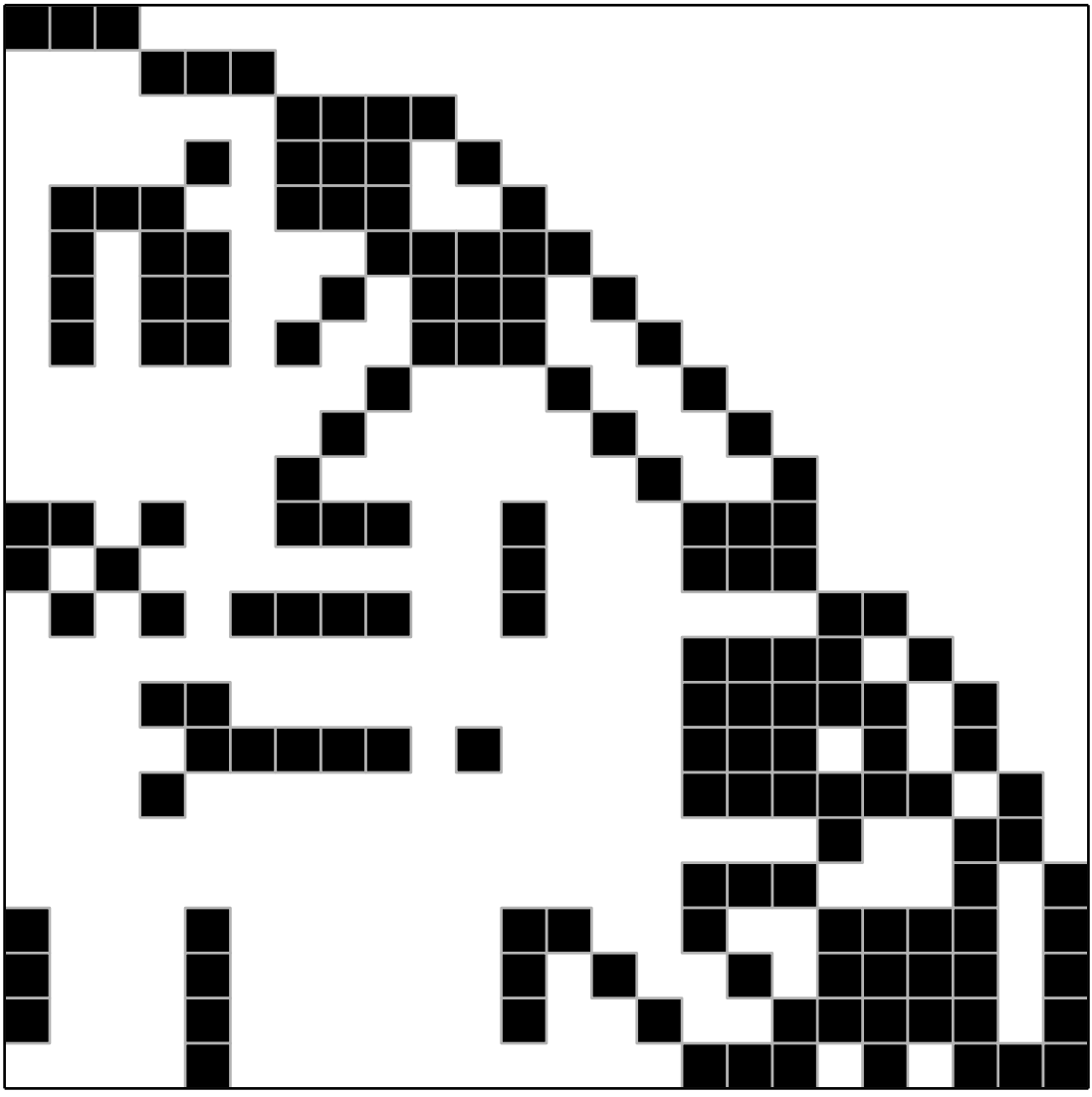
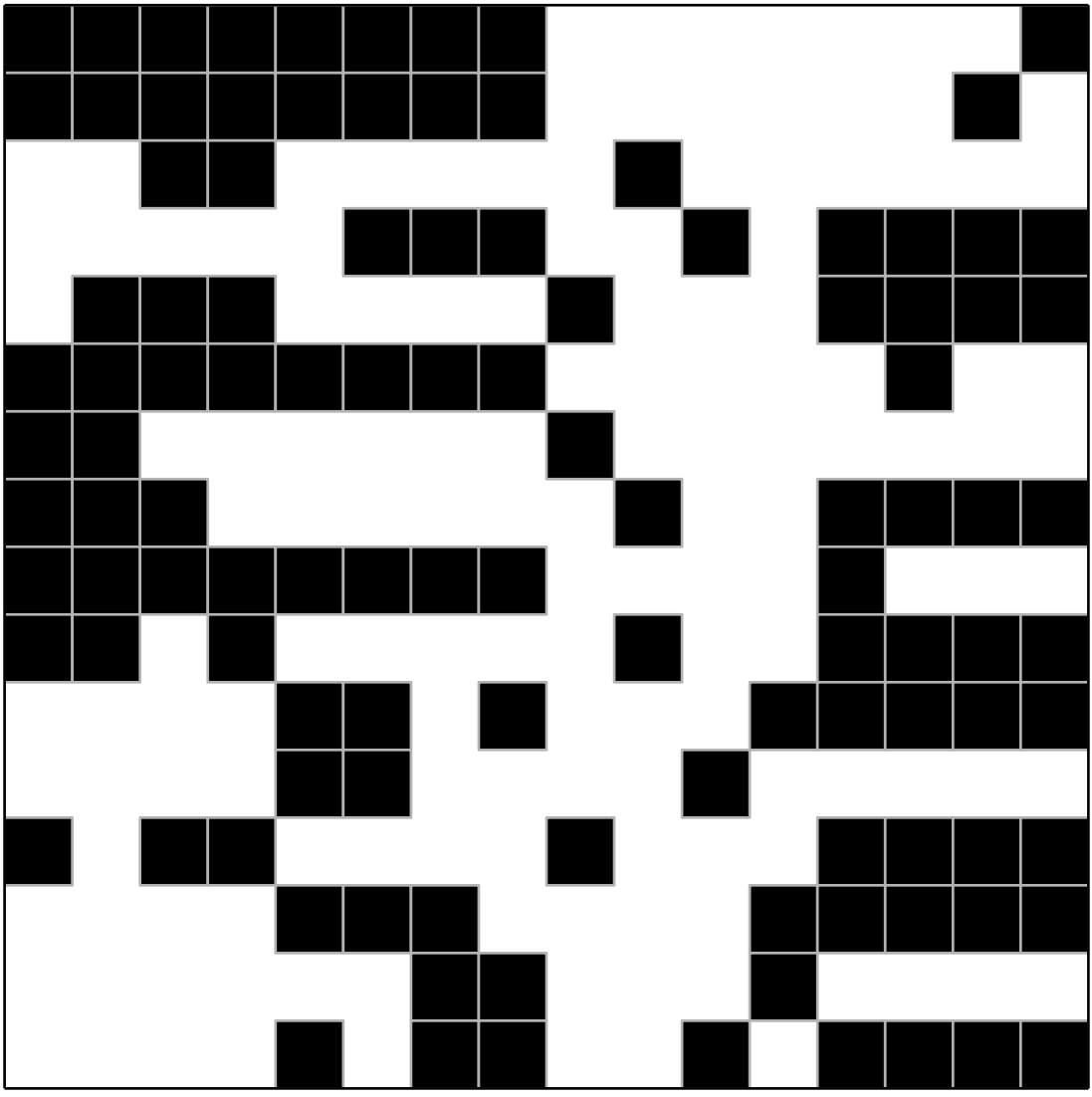
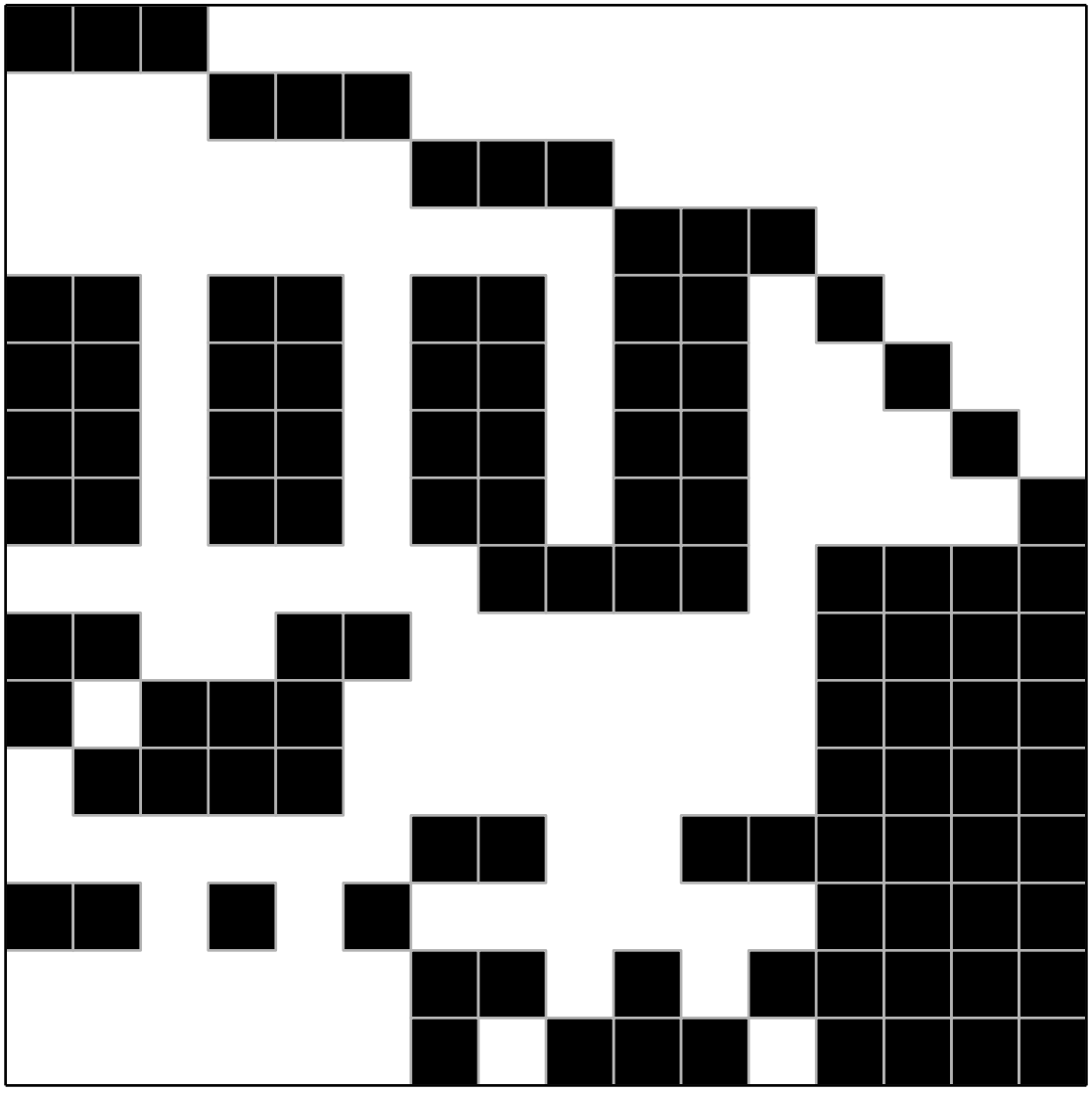


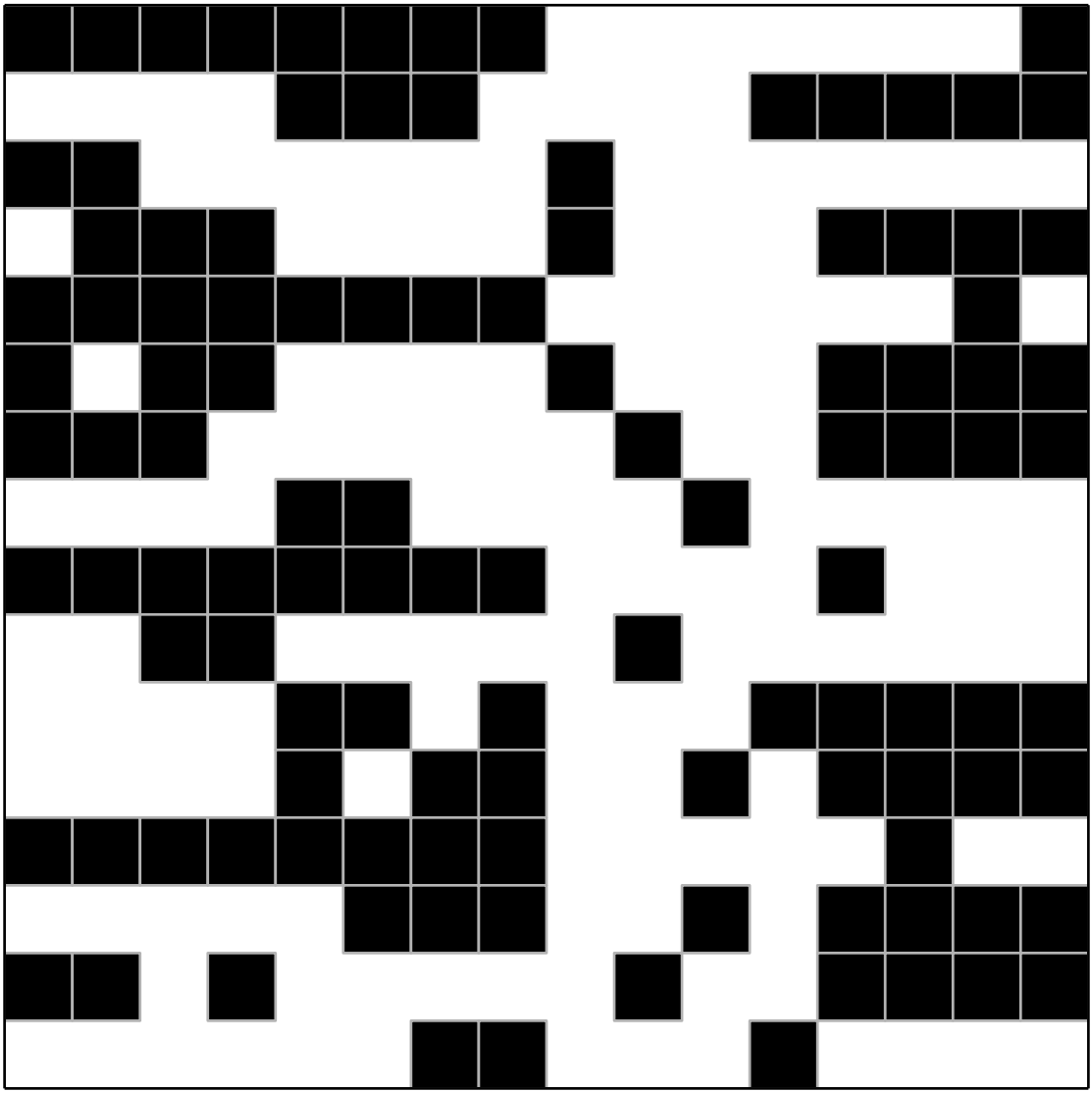
lib3_kin2-00 16x16 (112) con: 8, var: 8

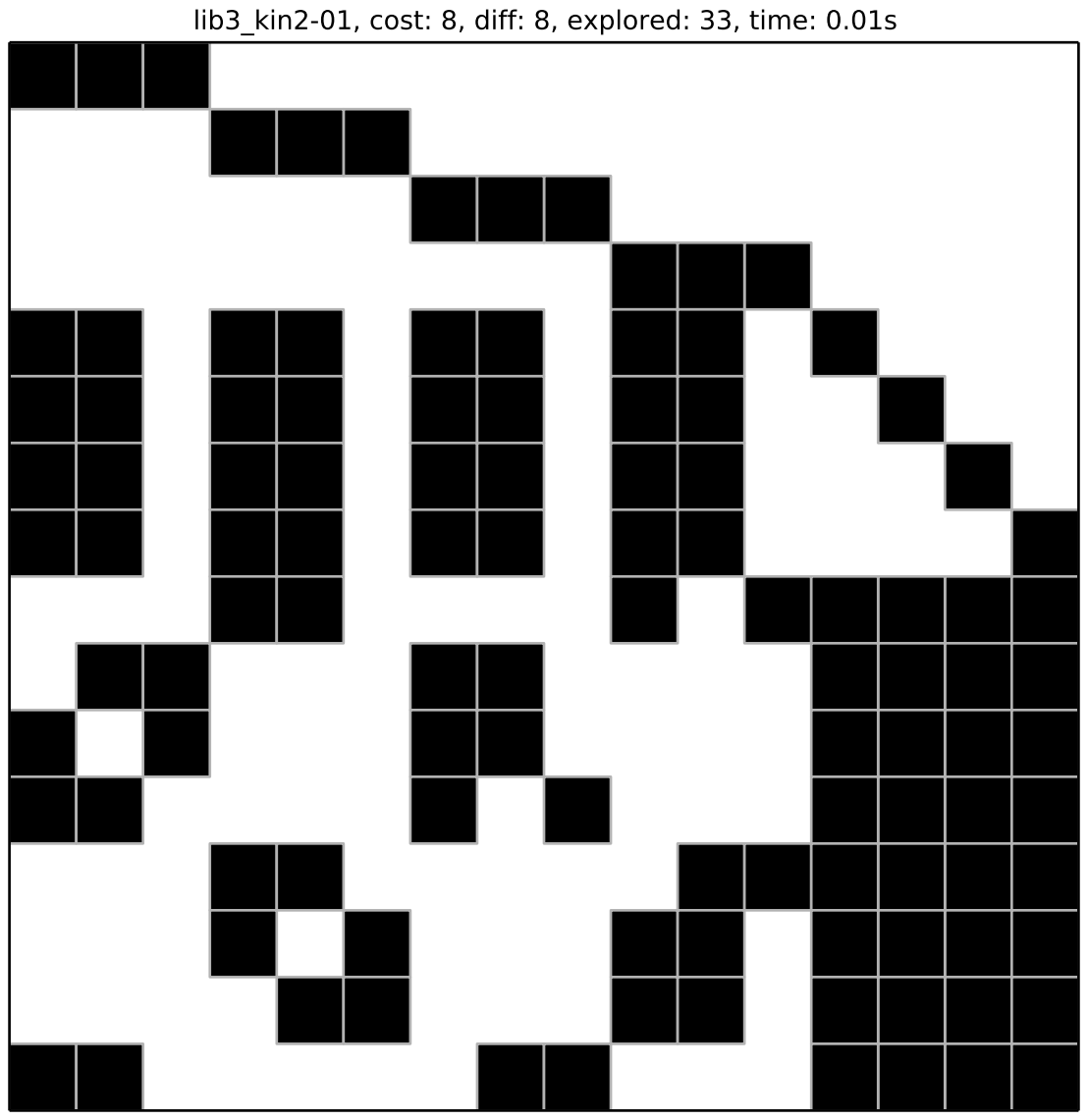


lib3_kin2-00, cost: 8, diff: 8, explored: 33, time: 0.01s



lib3_kin2-01 16x16 (112) con: 8, var: 8

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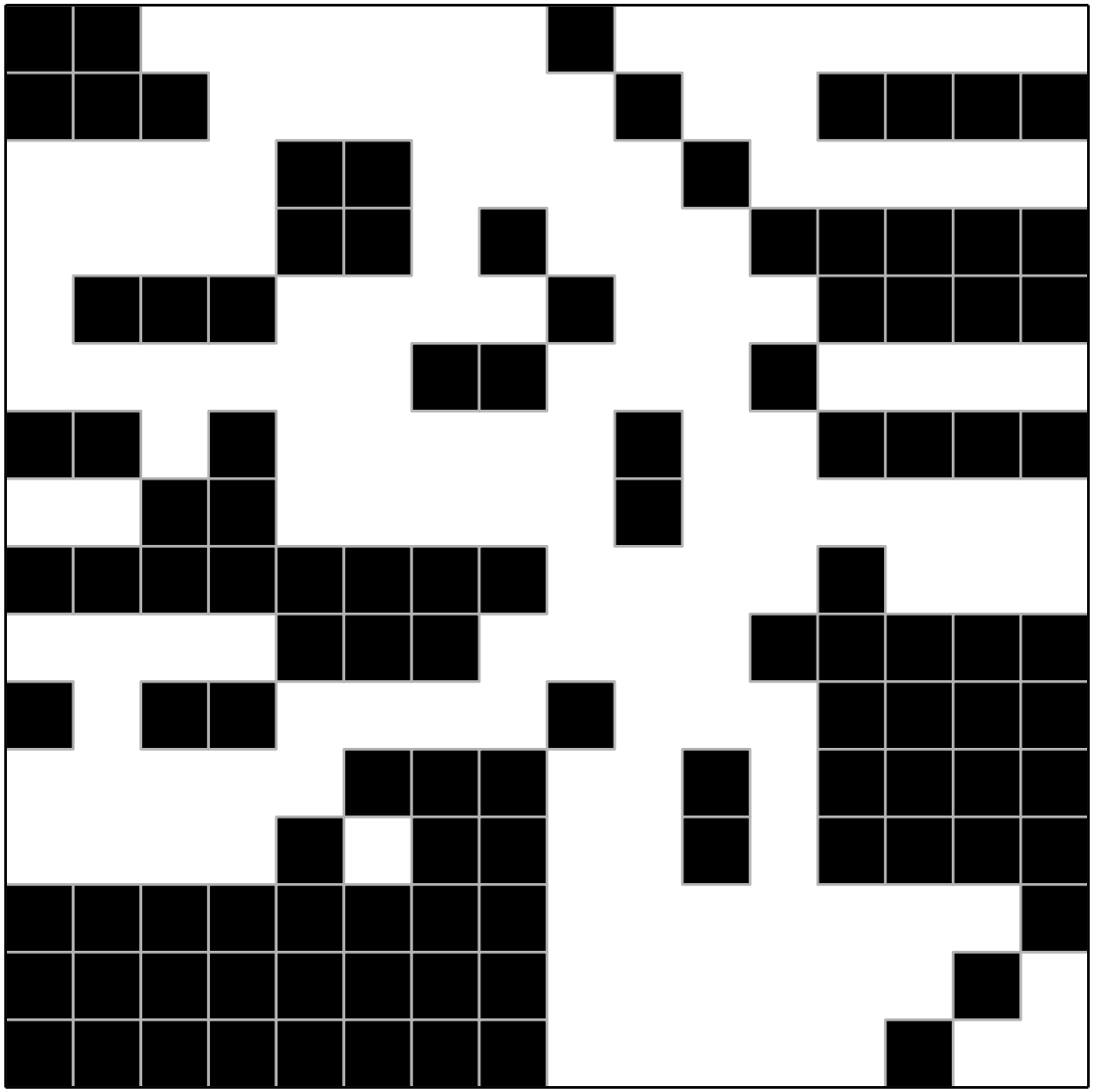
lib3_kin2-02 16x16 (112) con: 8, var: 8



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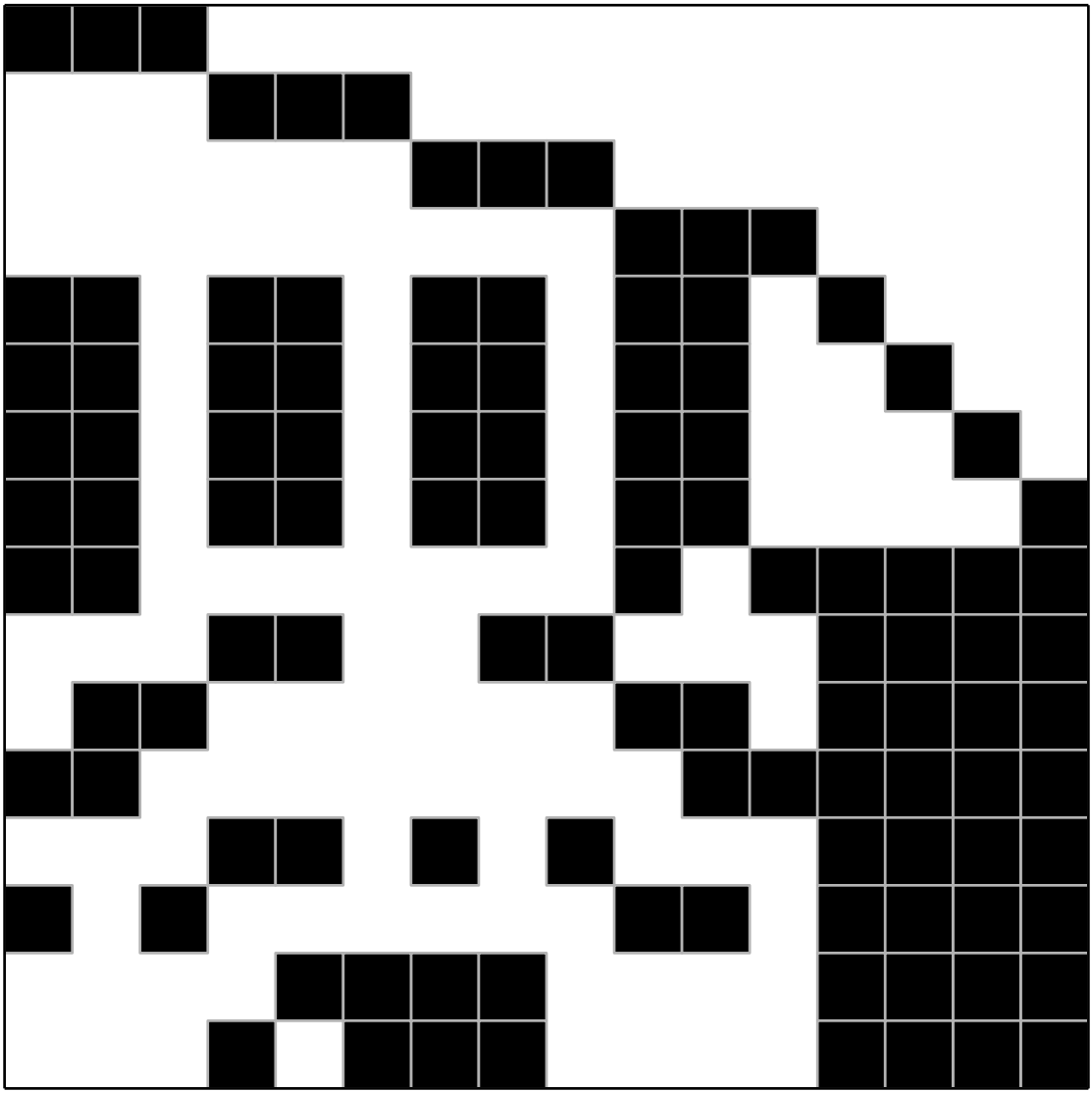
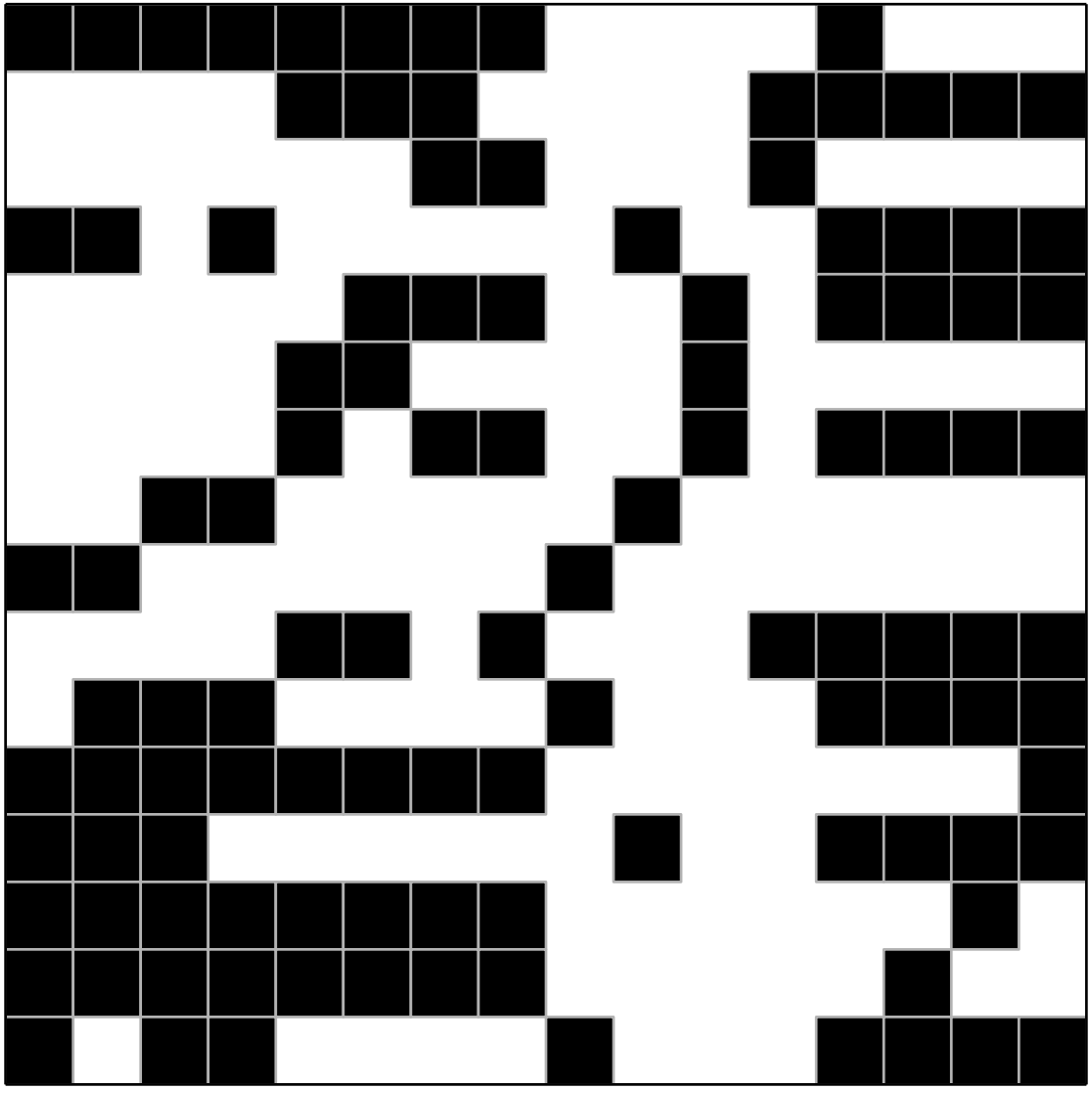
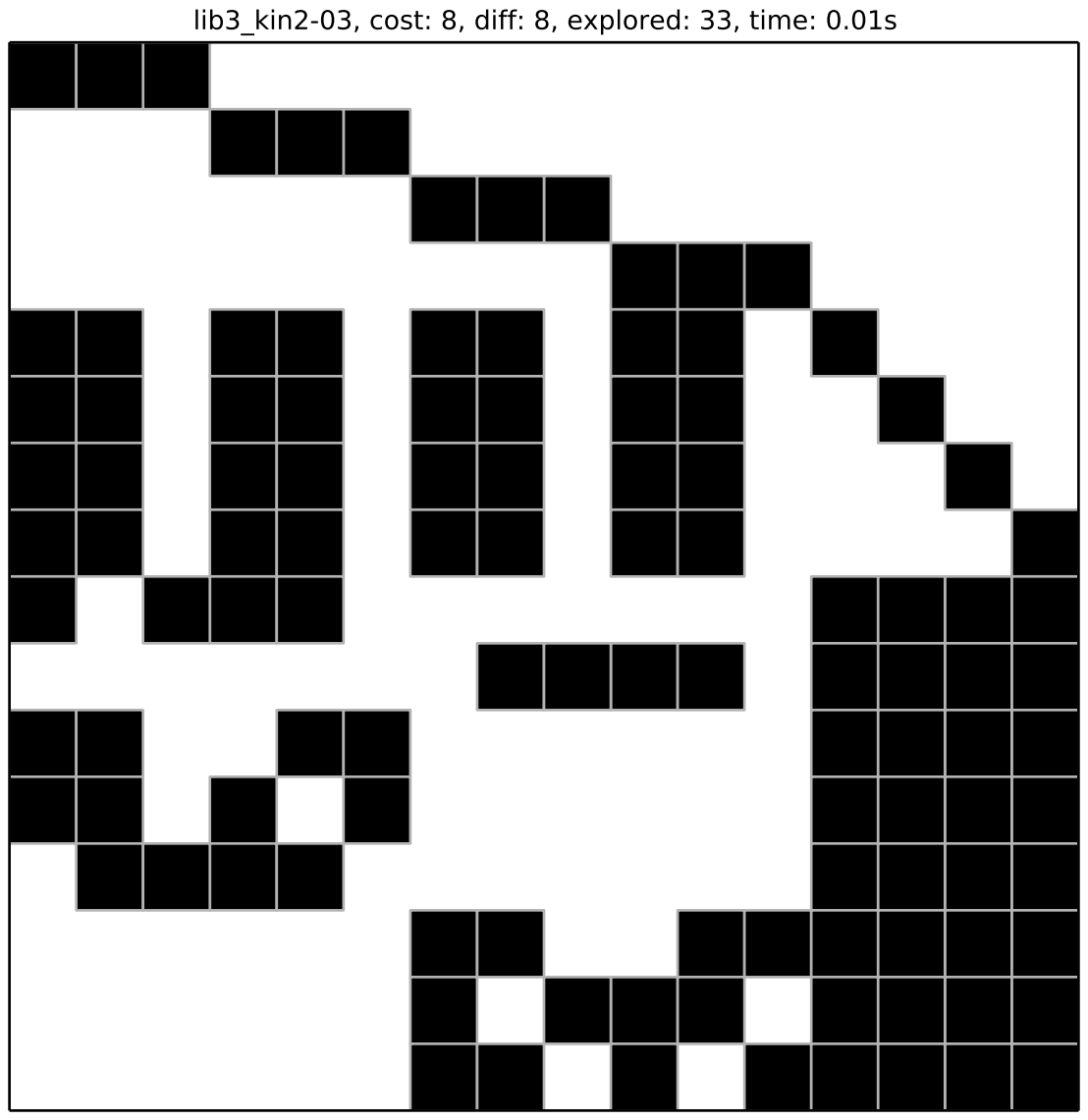


lib3_kin2-03 16x16 (112) con: 8, var: 8

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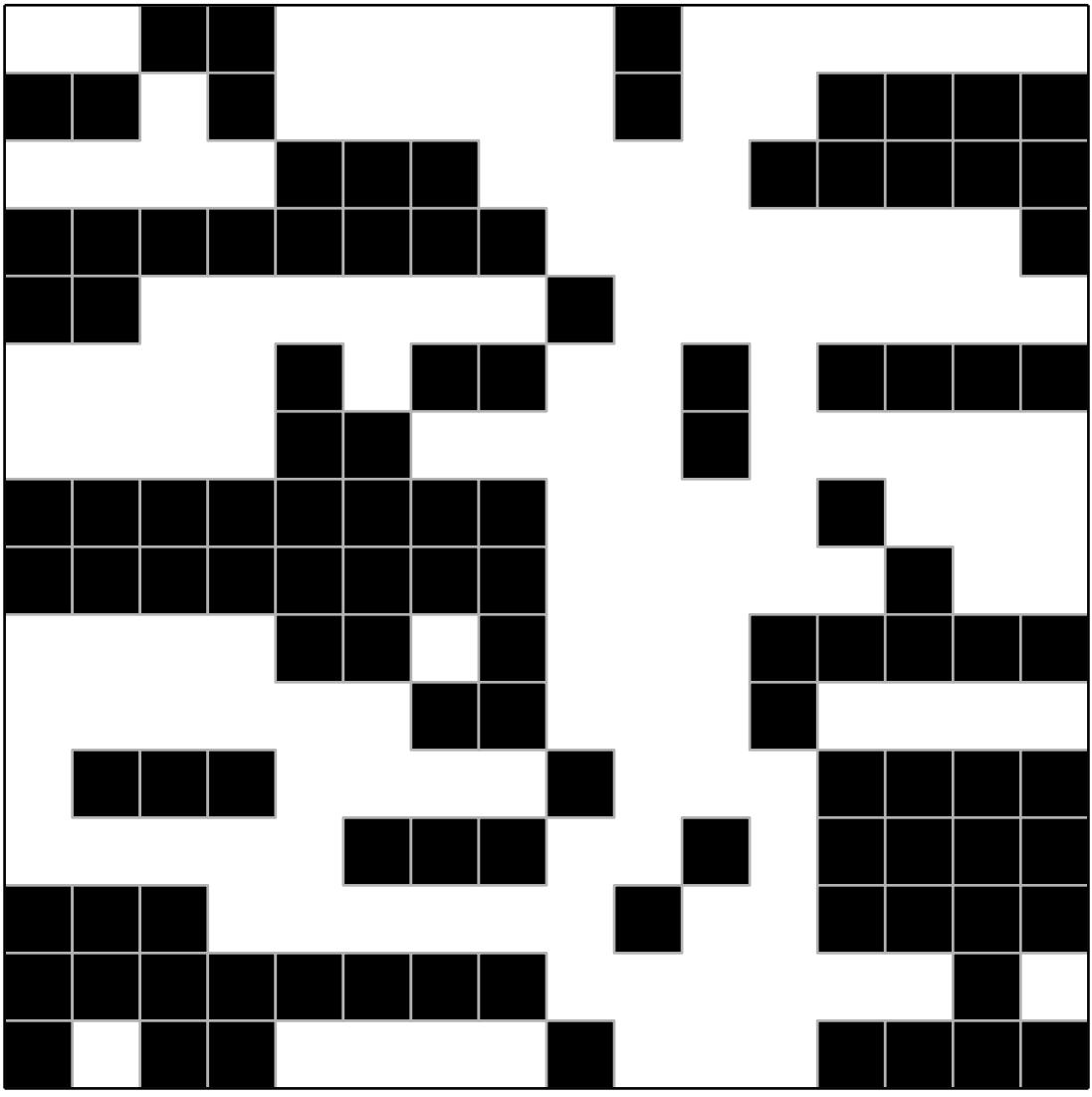
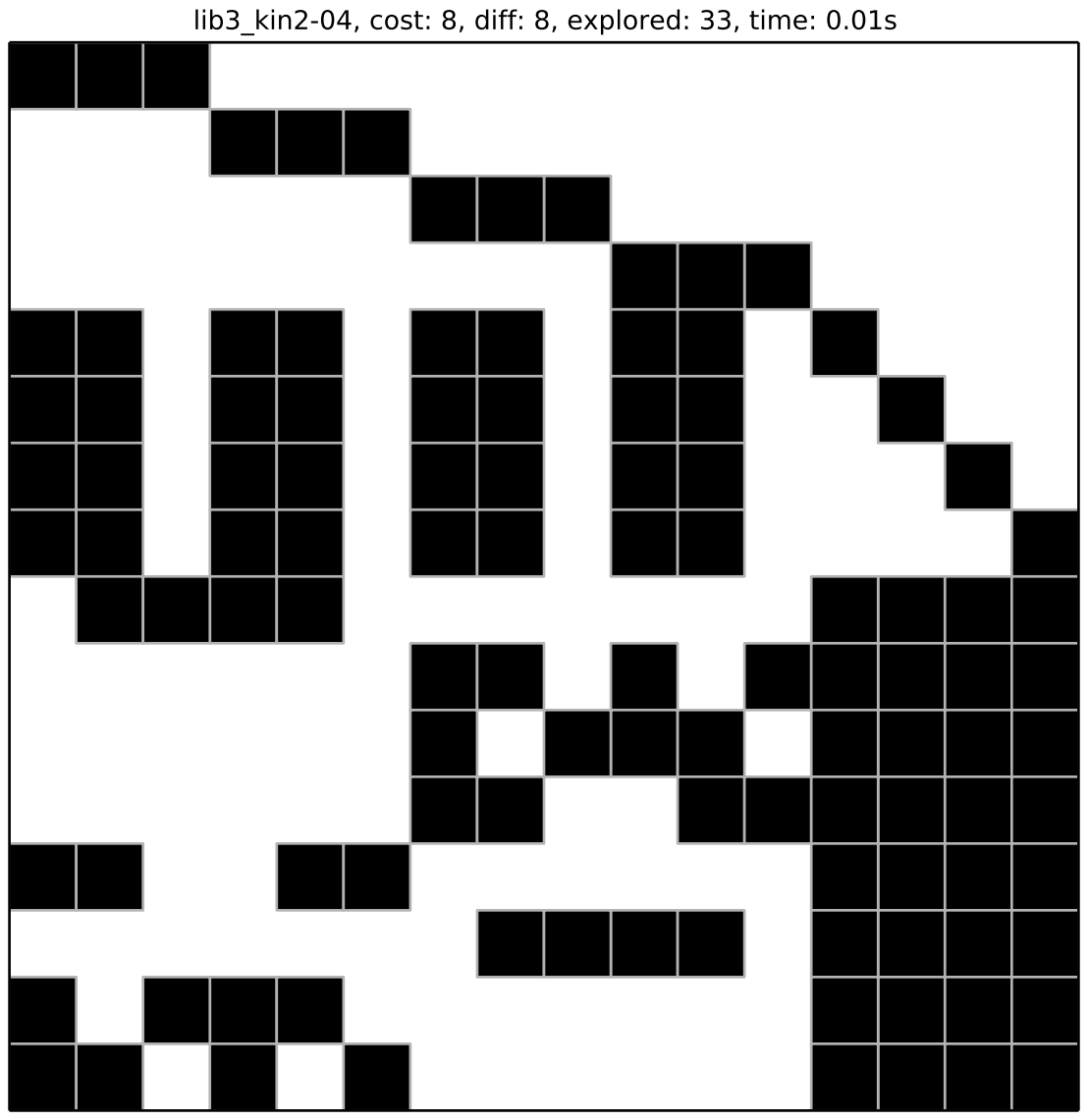
lib3_kin2-04 16x16 (112) con: 8, var: 8

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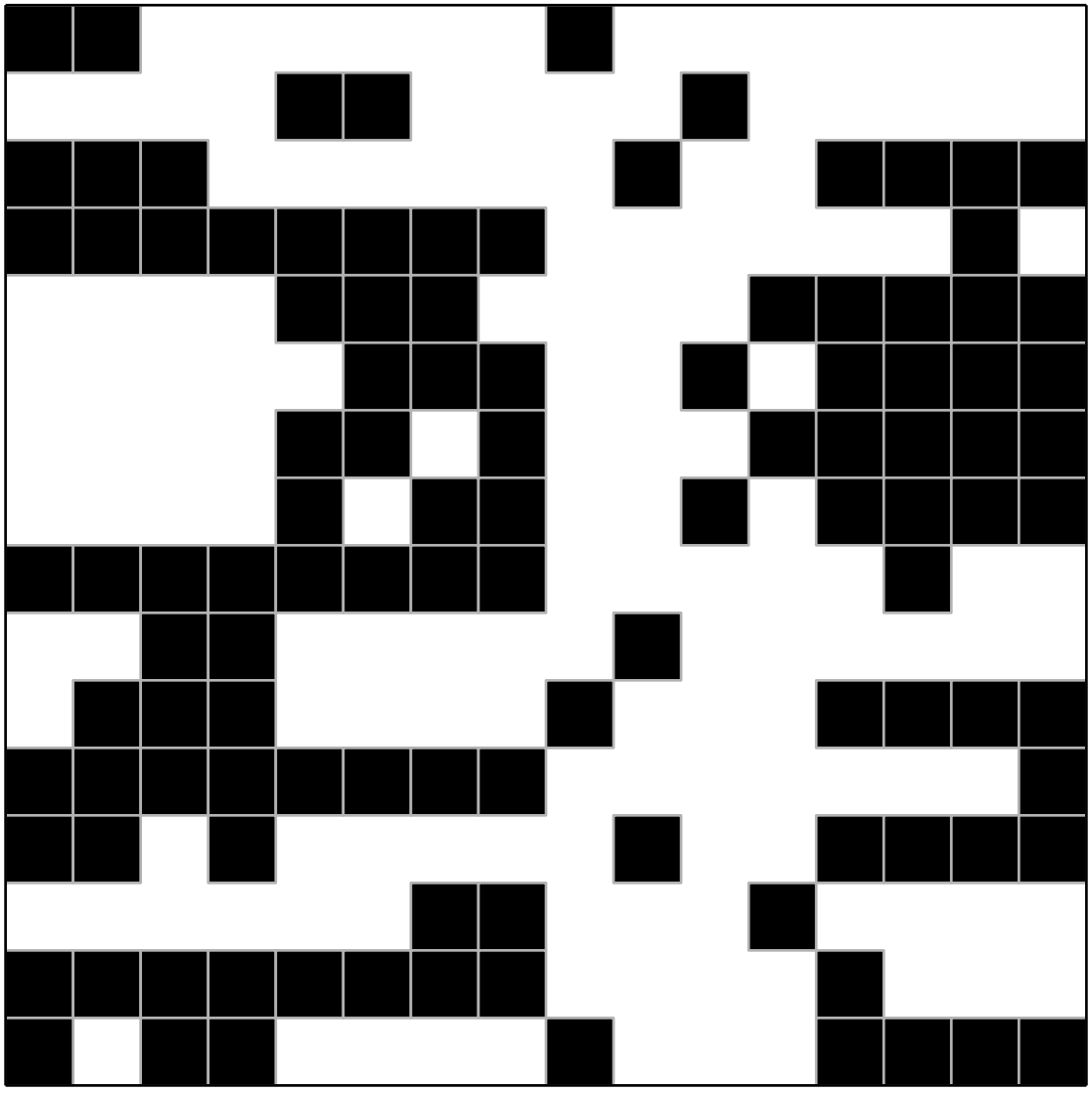
lib3_kin2-05 16x16 (112) con: 8, var: 8



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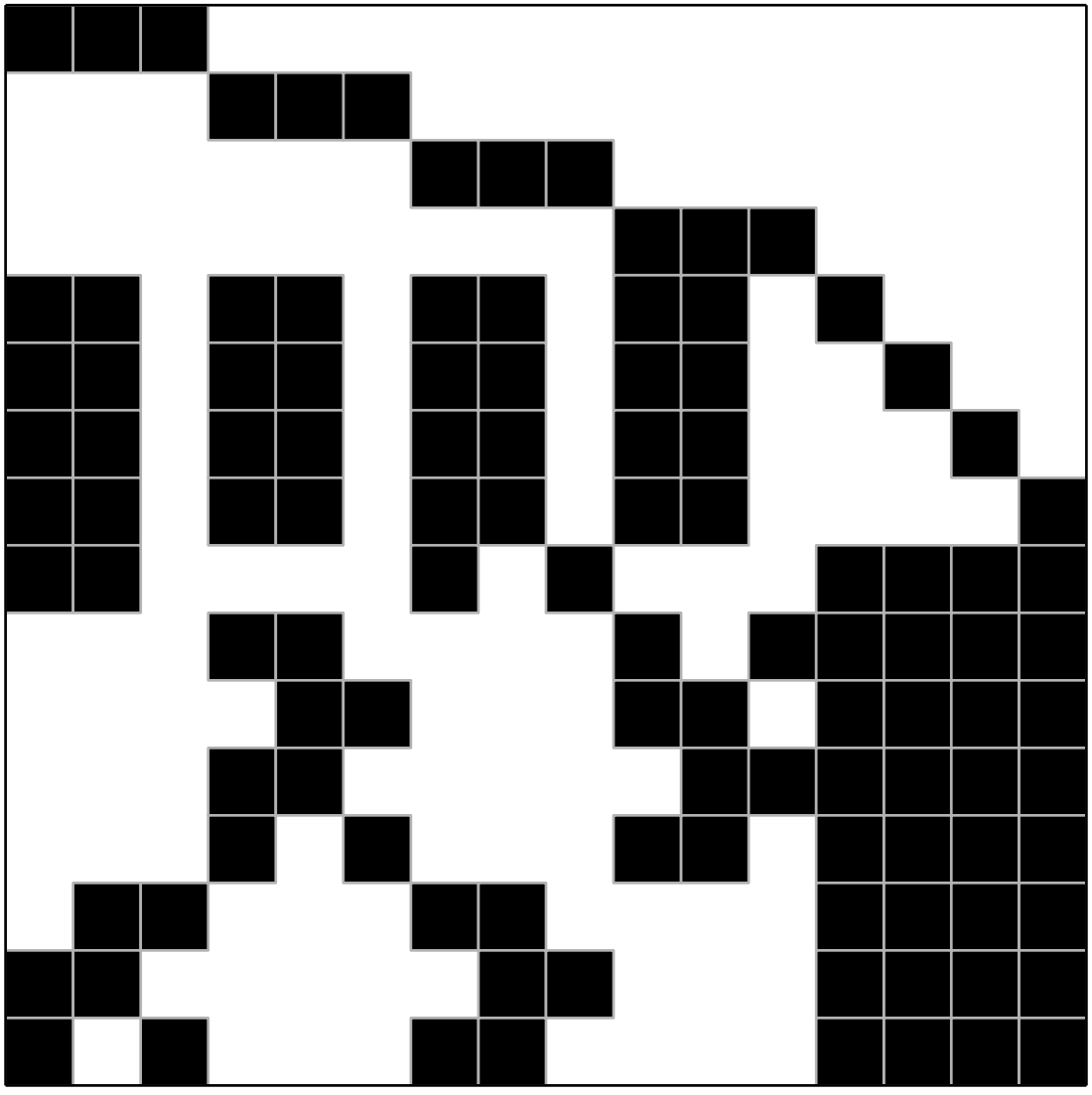
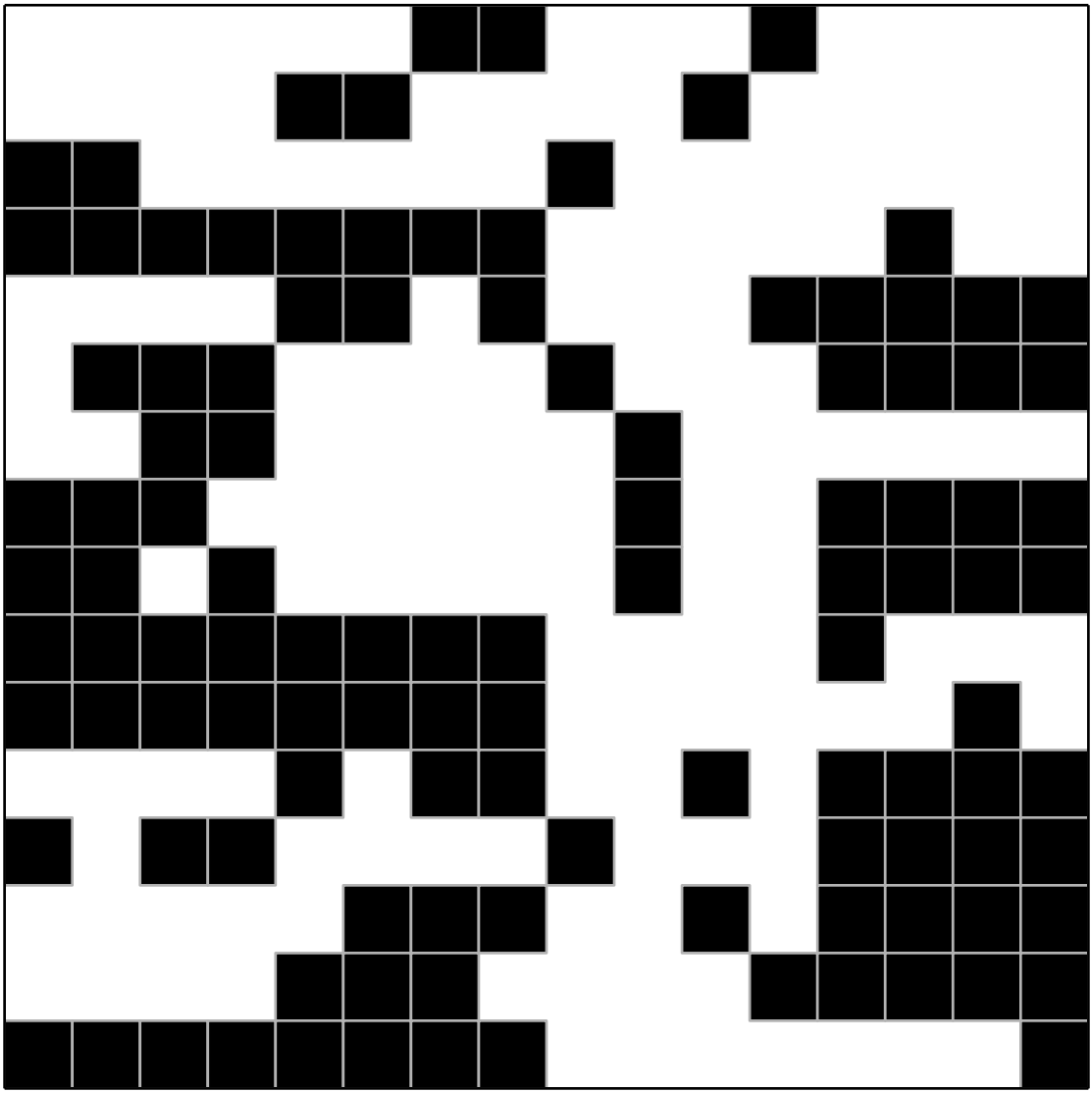


lib3_kin2-06 16x16 (112) con: 8, var: 8



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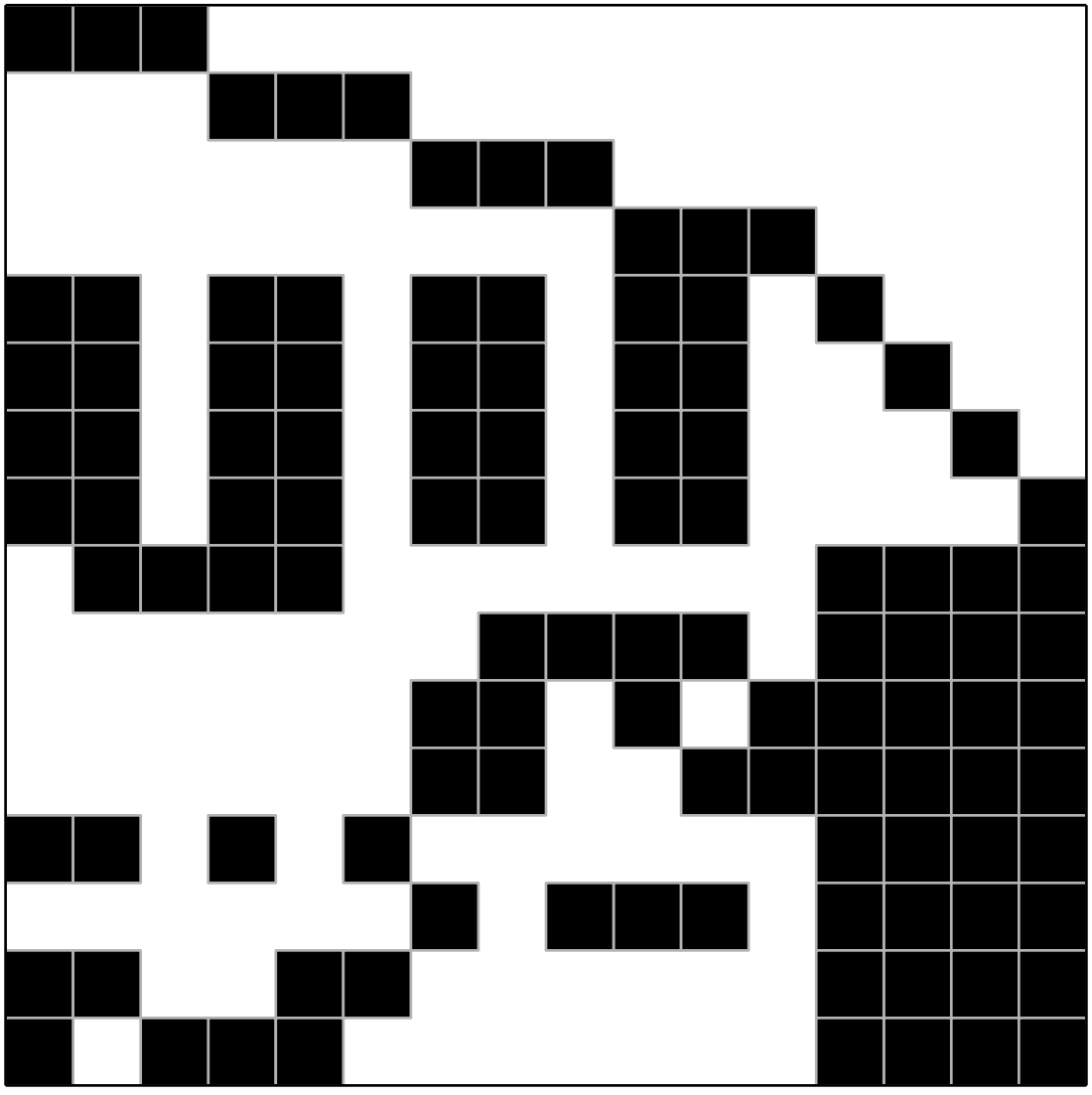
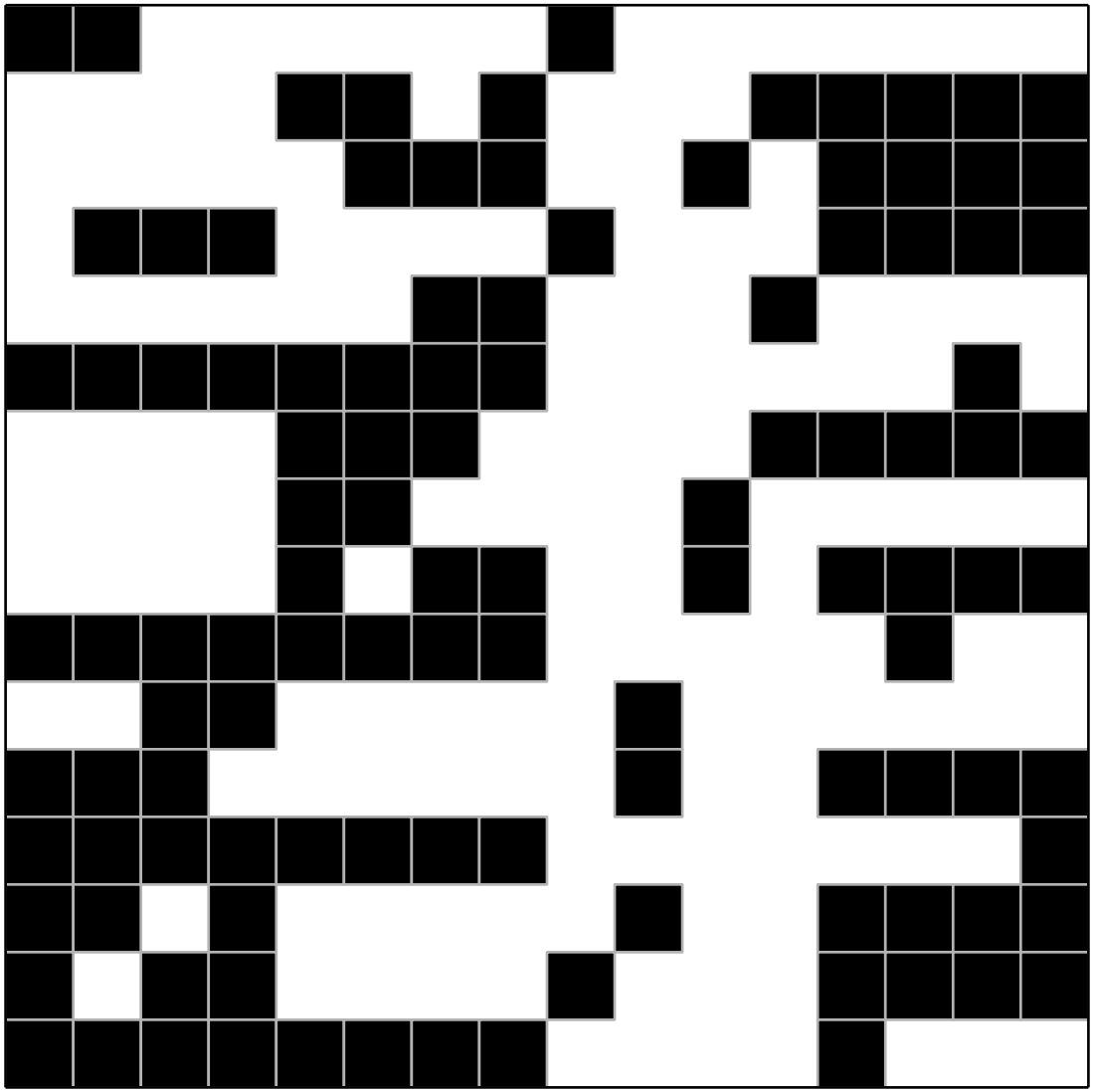
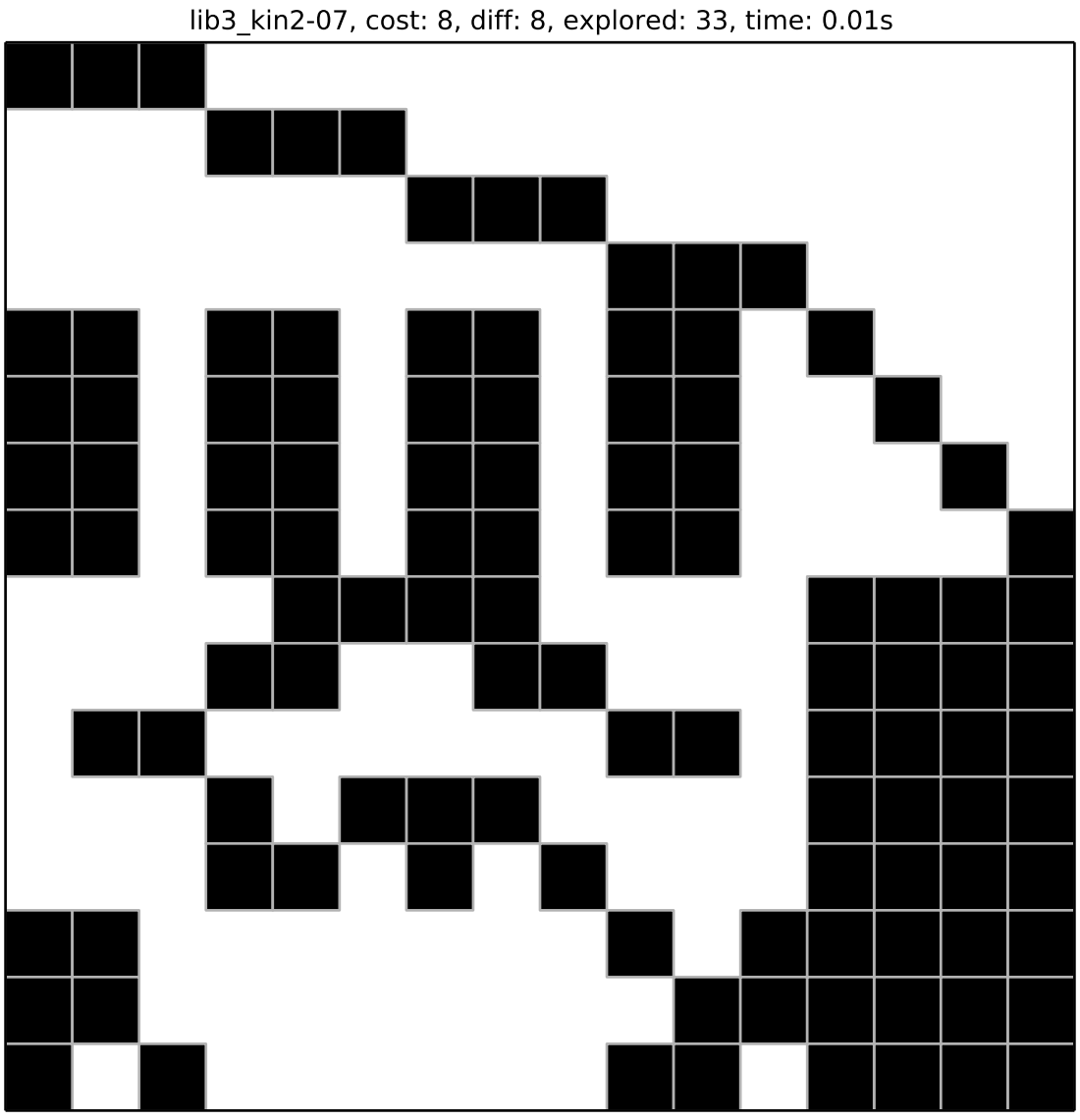
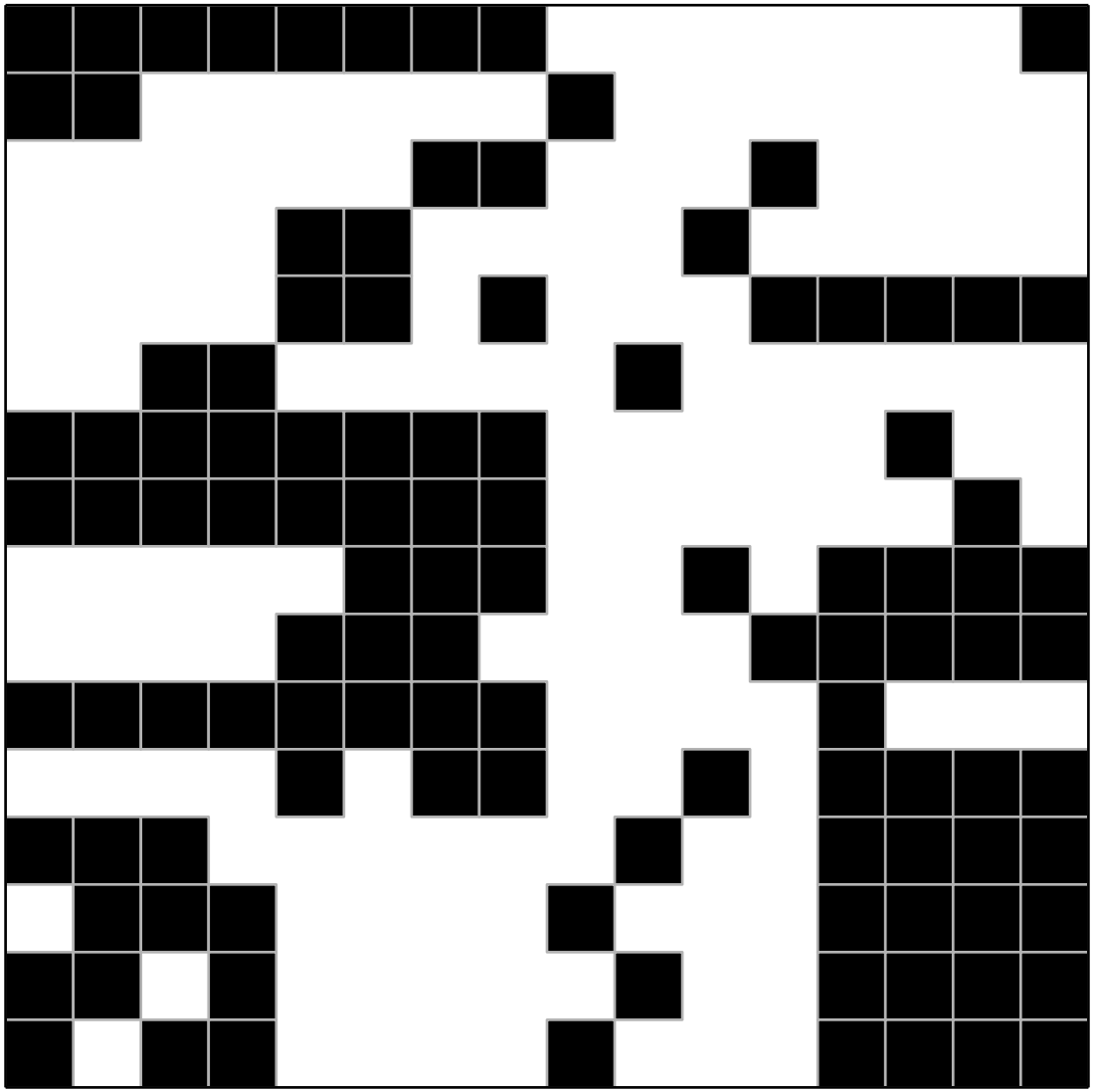


lib3_kin2-07 16x16 (112) con: 8, var: 8

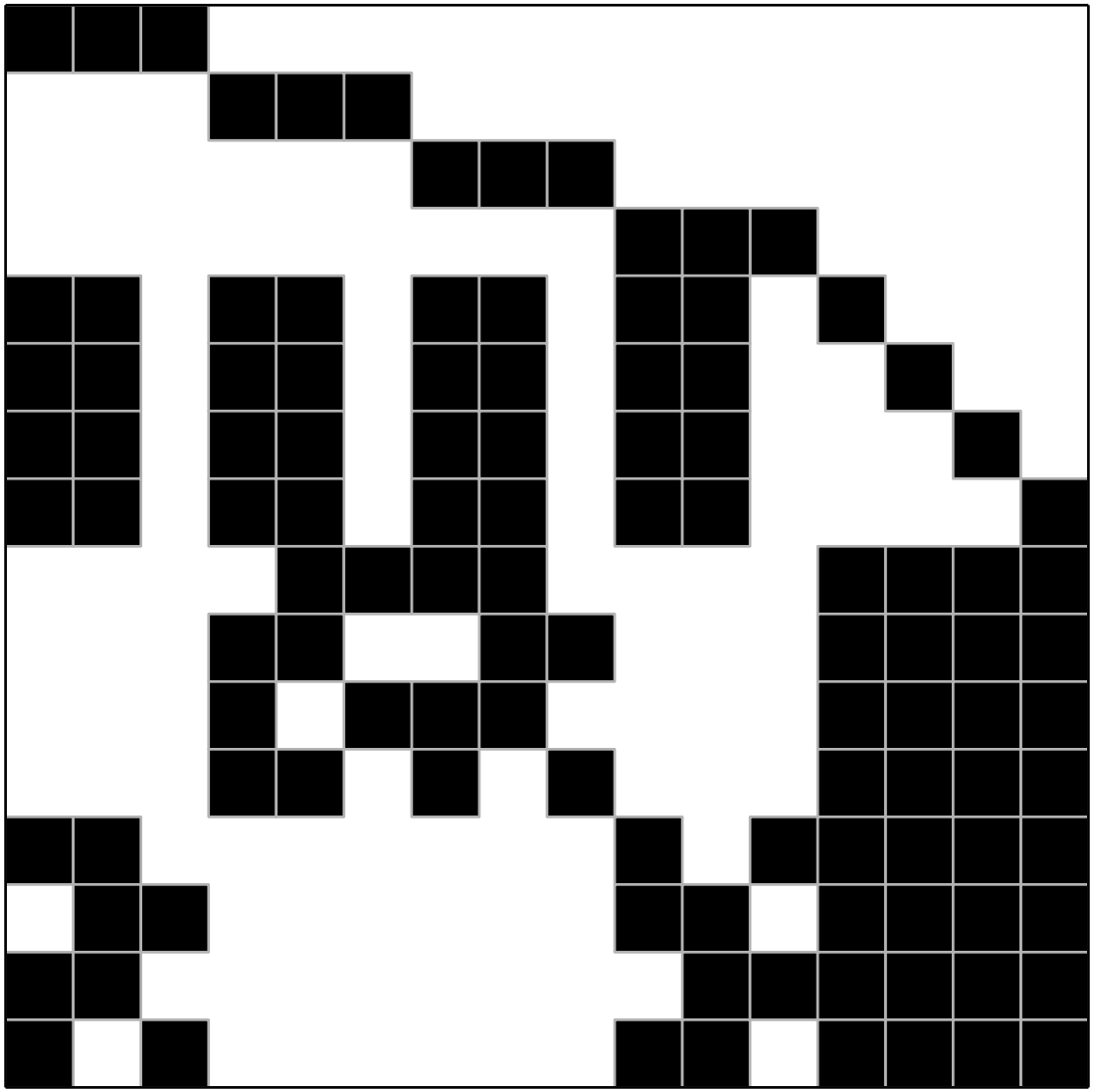



lib3_kin2-07, cost: 8, diff: 8, explored: 33, time: 0.01s

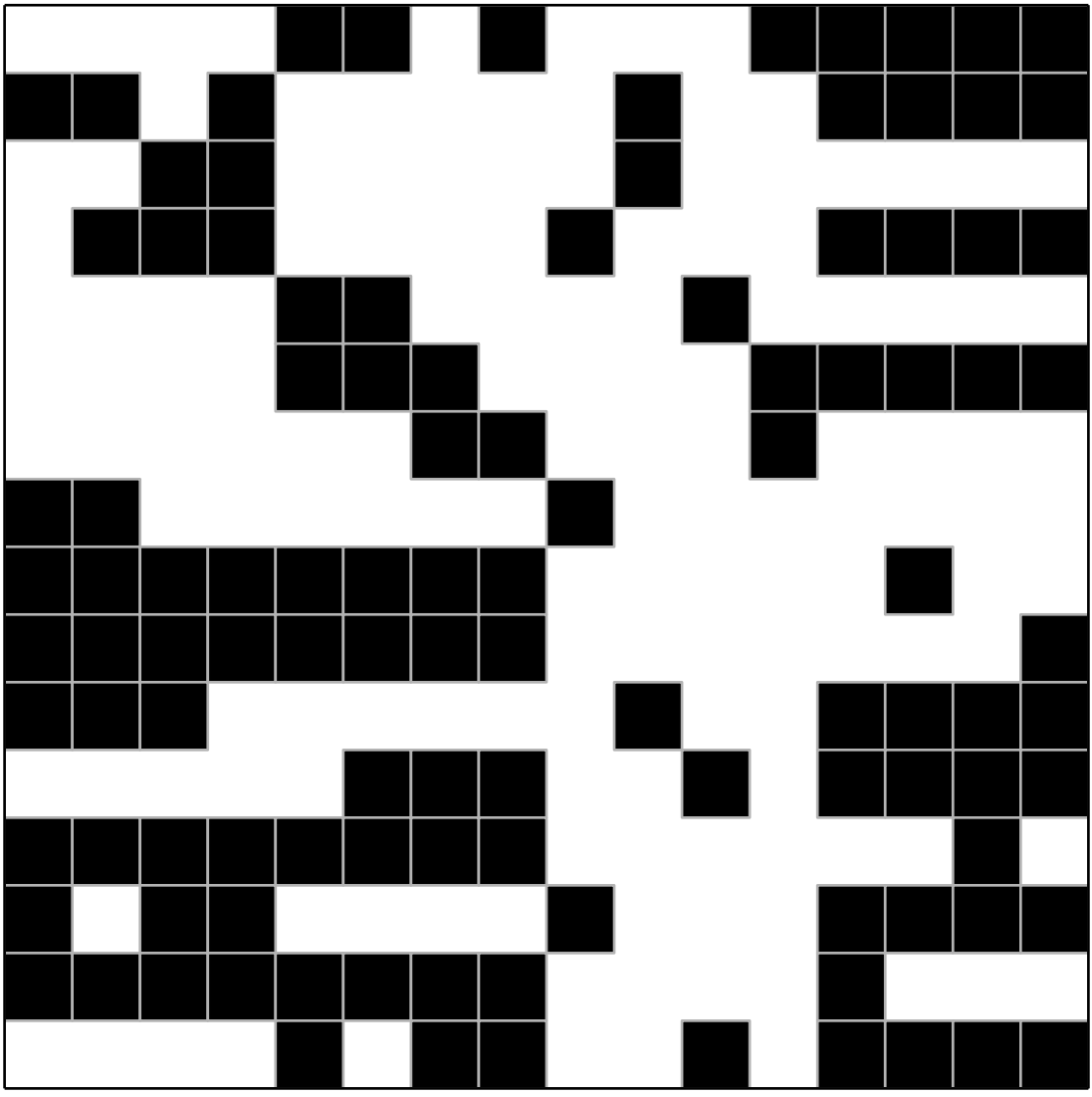
lib3_kin2-08 16x16 (112) con: 8, var: 8



lib3_kin2-08, cost: 8, diff: 8, explored: 33, time: 0.01s



lib3_kin2-09 16x16 (112) con: 8, var: 8



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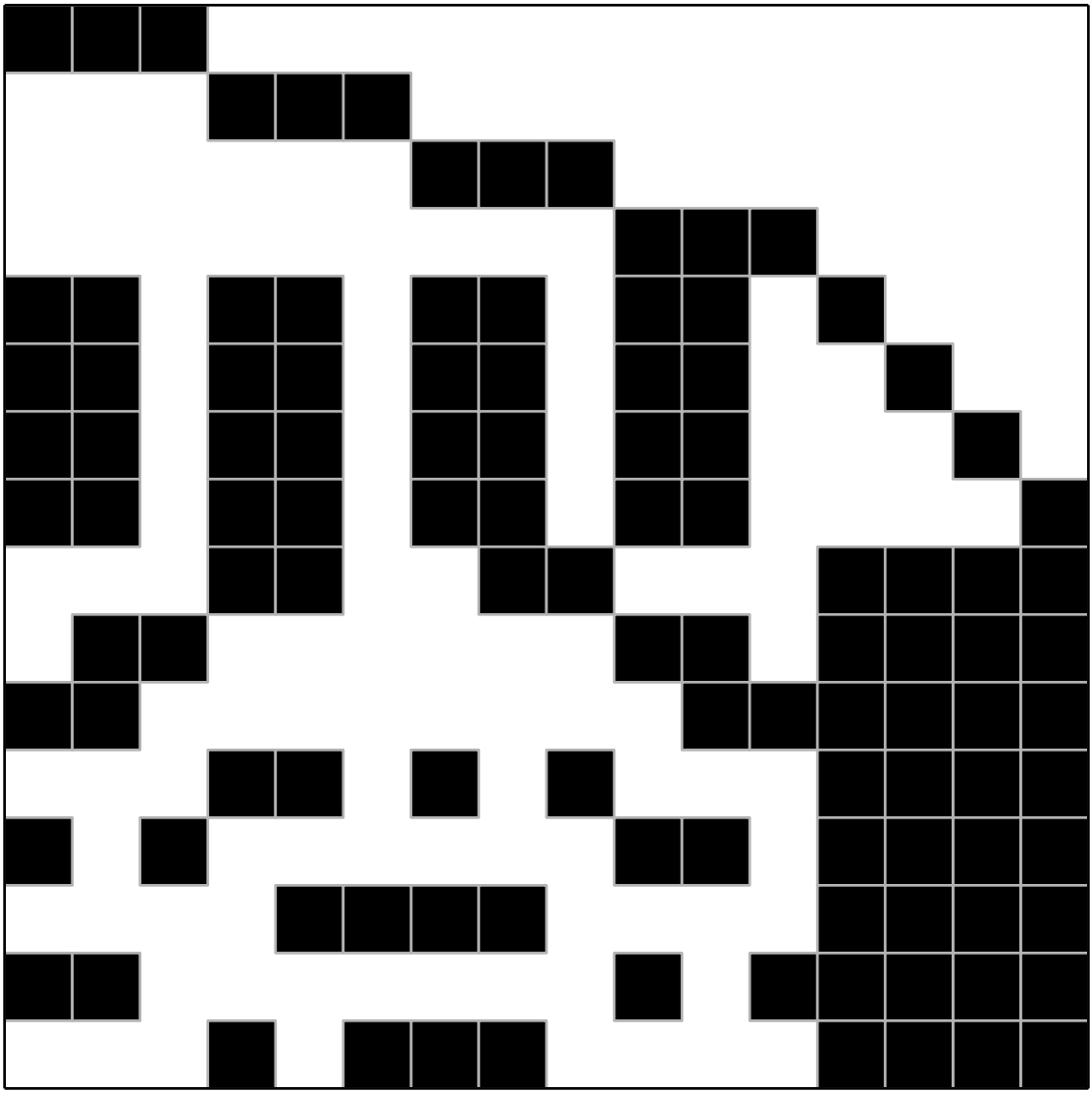
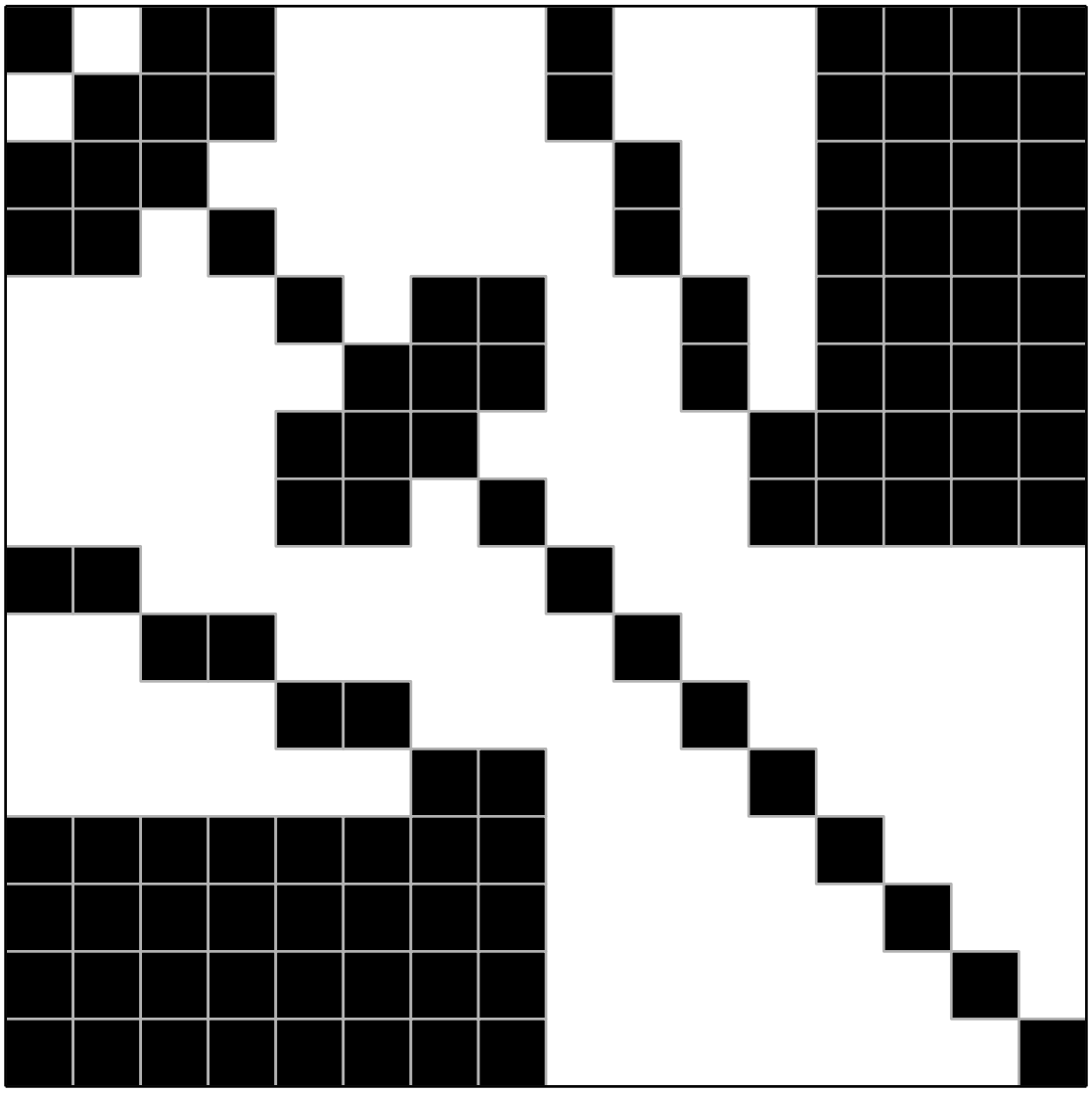
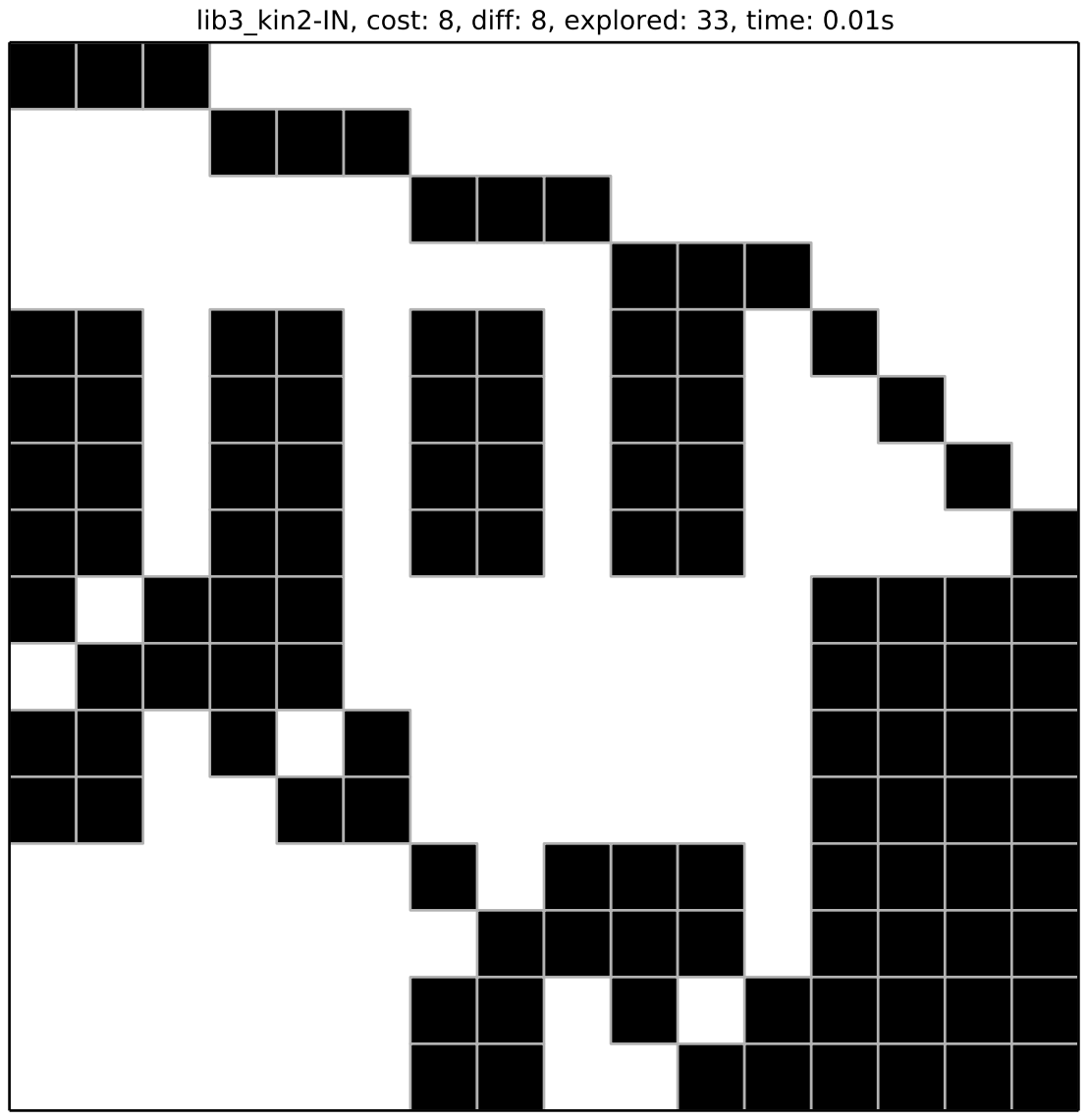
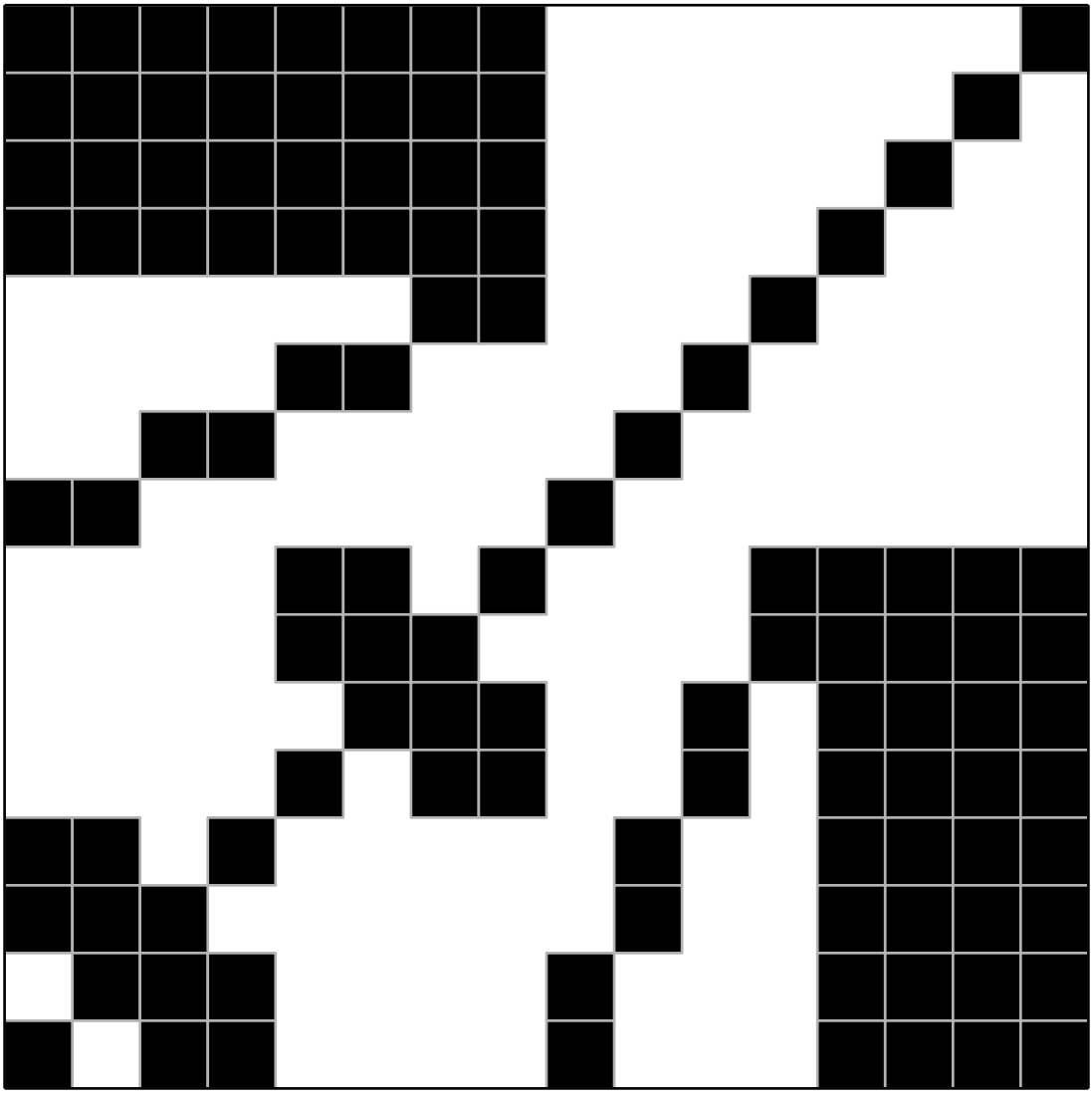


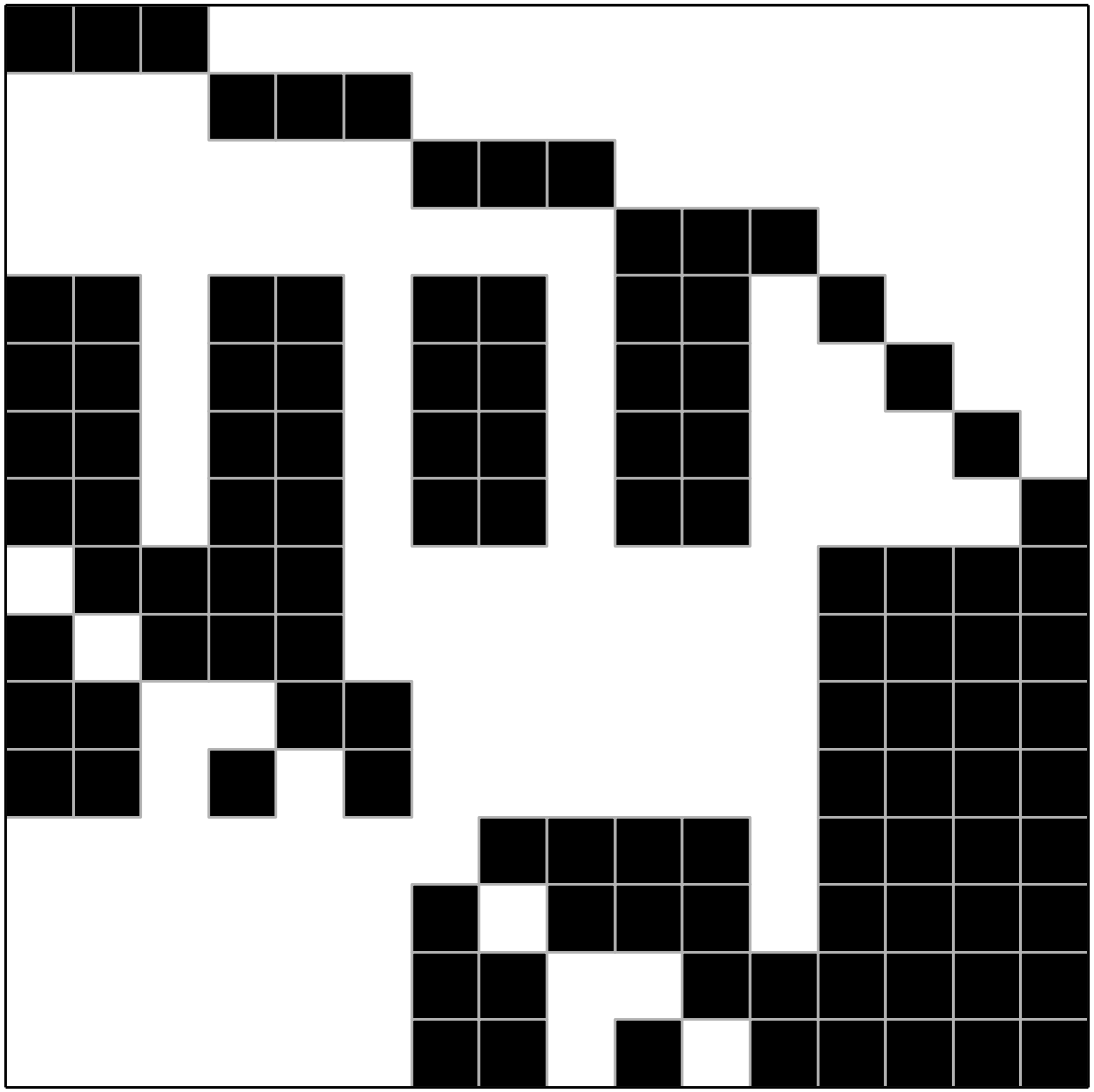

lib3_kin2-IN 16x16 (112) con: 8, var: 8


lib3_kin2-IN, cost: 8, diff: 8, explored: 33, time: 0.01s

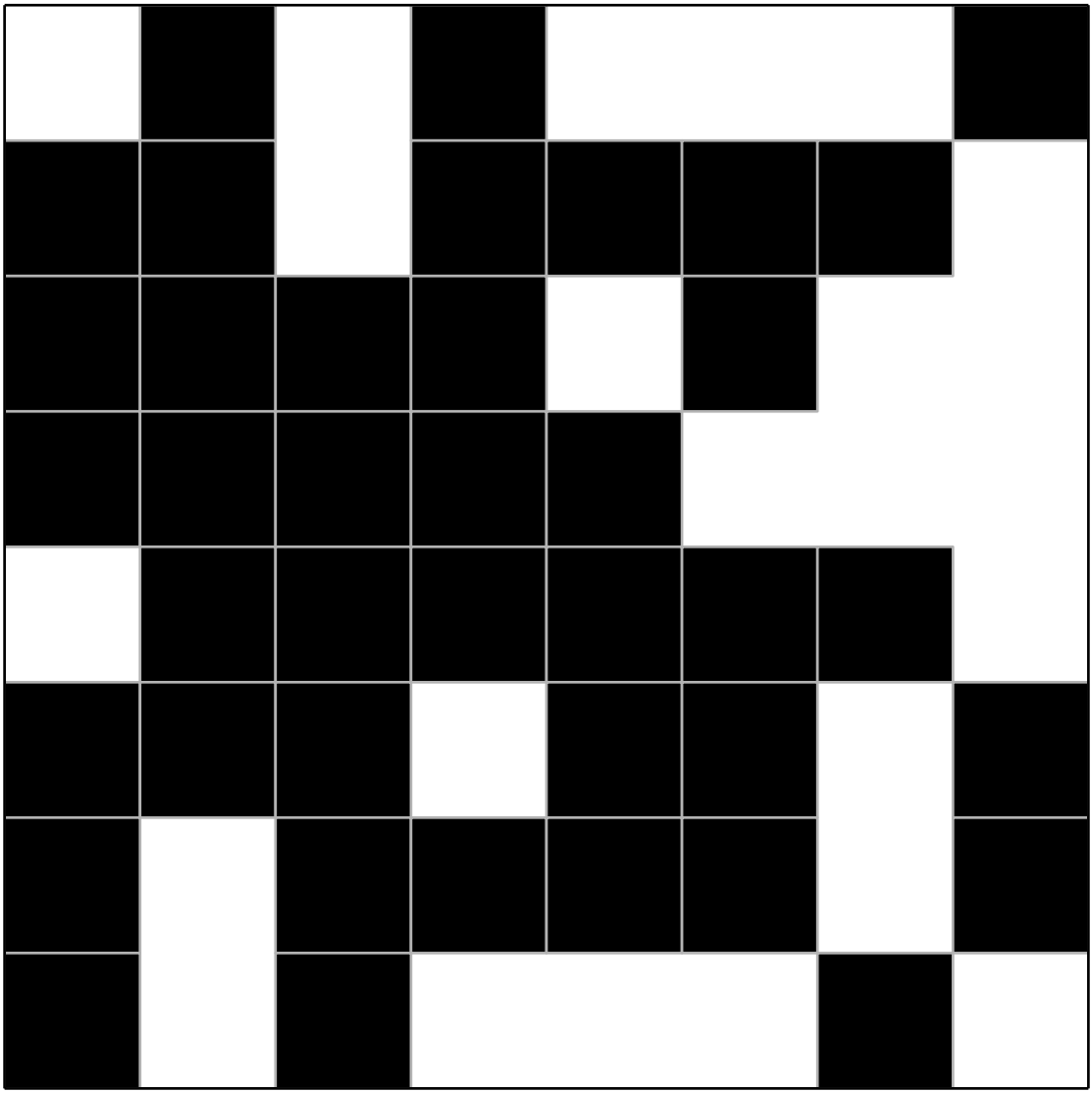
lib3_kin2-RE 16x16 (112) con: 8, var: 8

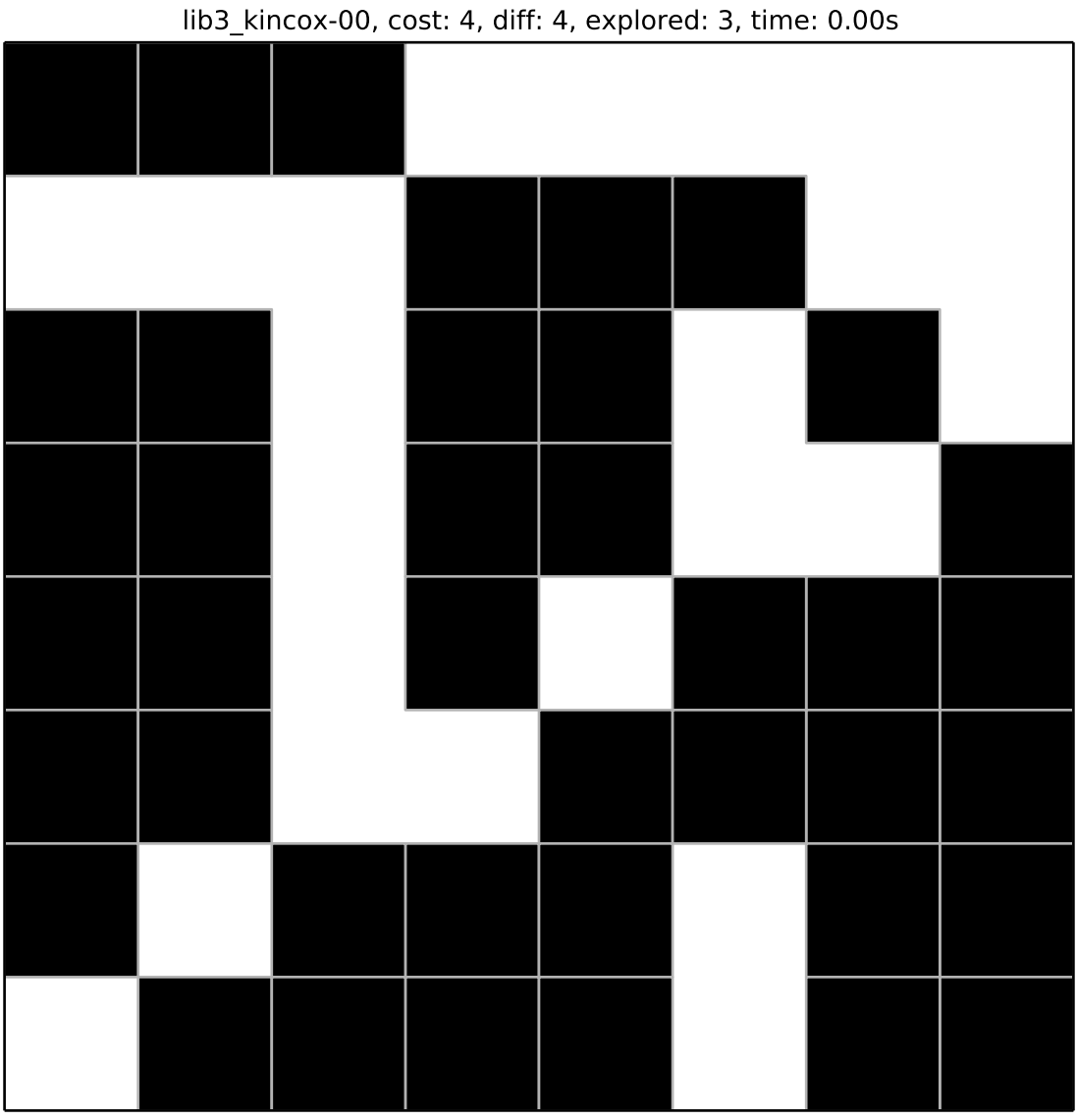


lib3_kin2-RE, cost: 8, diff: 8, explored: 33, time: 0.01s

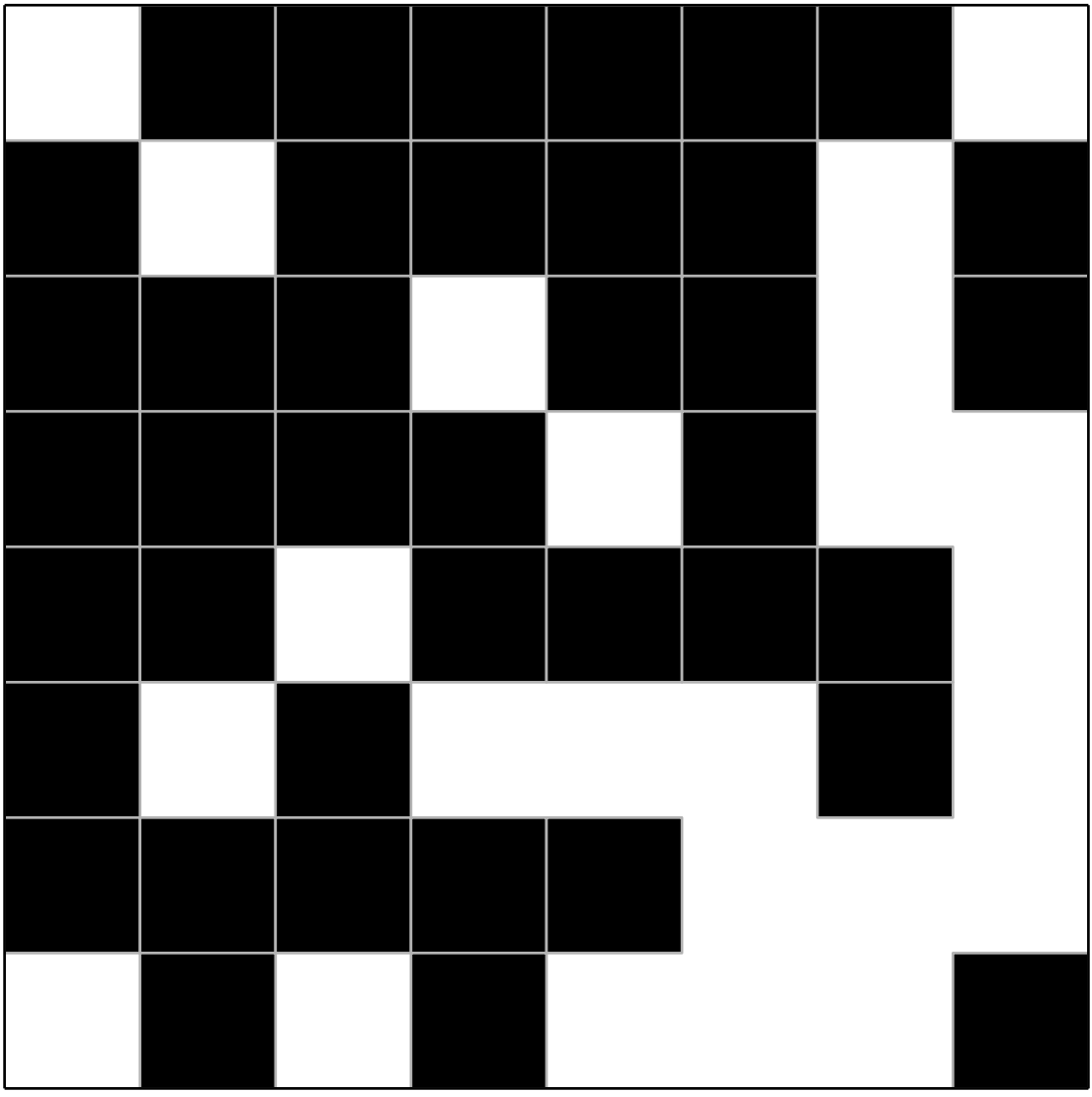


lib3_kincox-00 8x8 (40) con: 4, var: 4




lib3_kincox-00, cost: 4, diff: 4, explored: 3, time: 0.00s

lib3_kincox-01 8x8 (40) con: 4, var: 4



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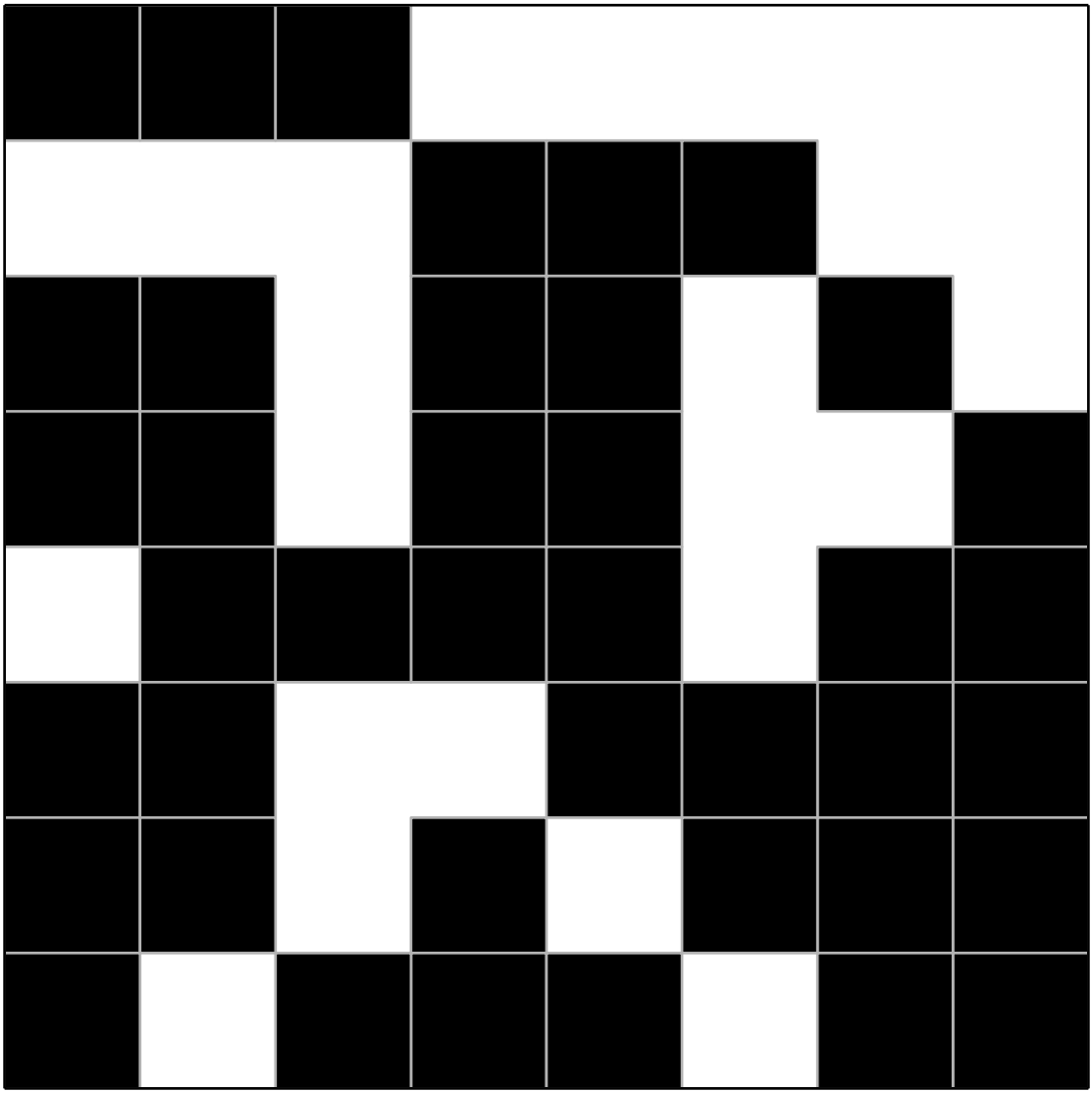
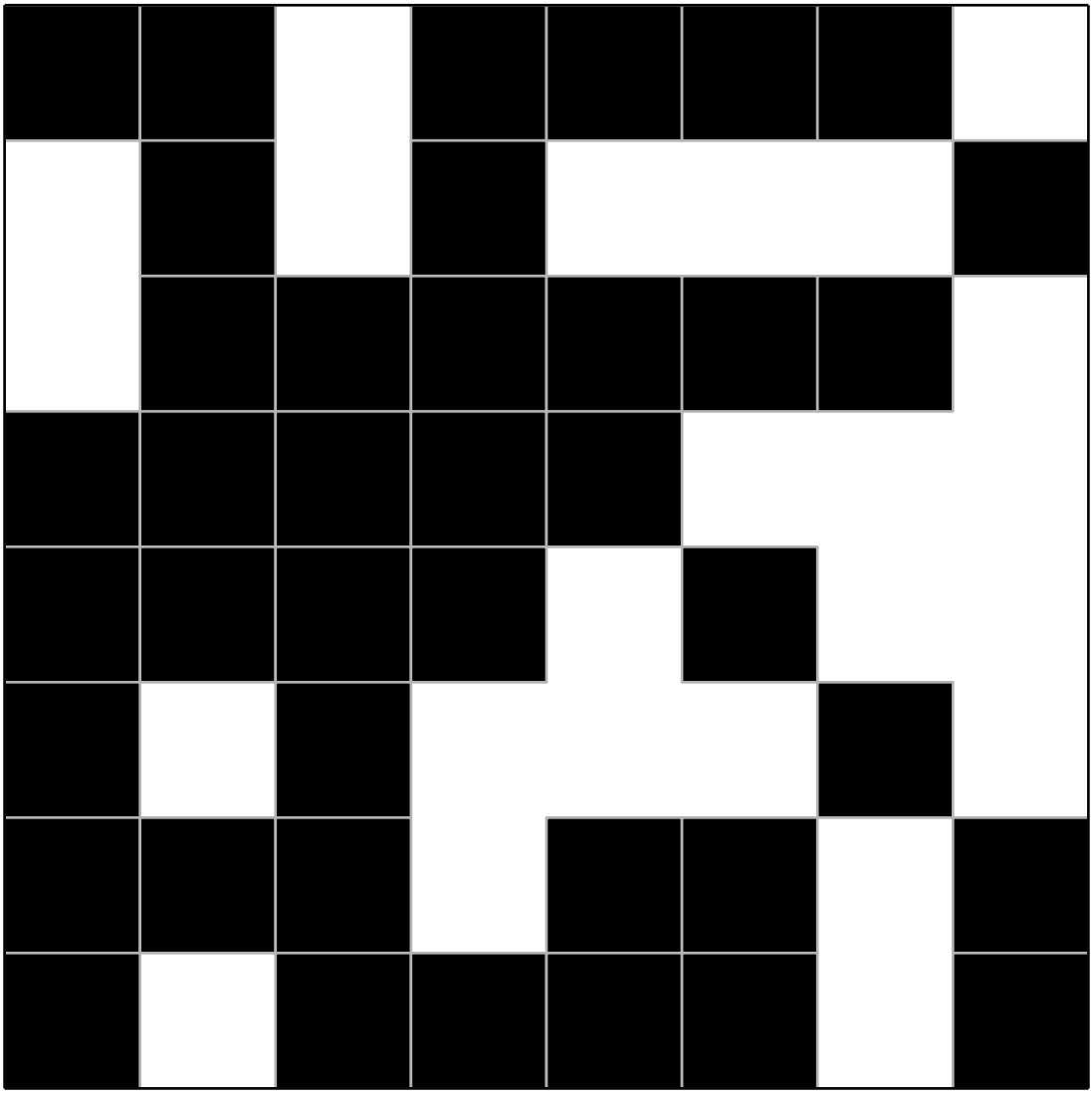
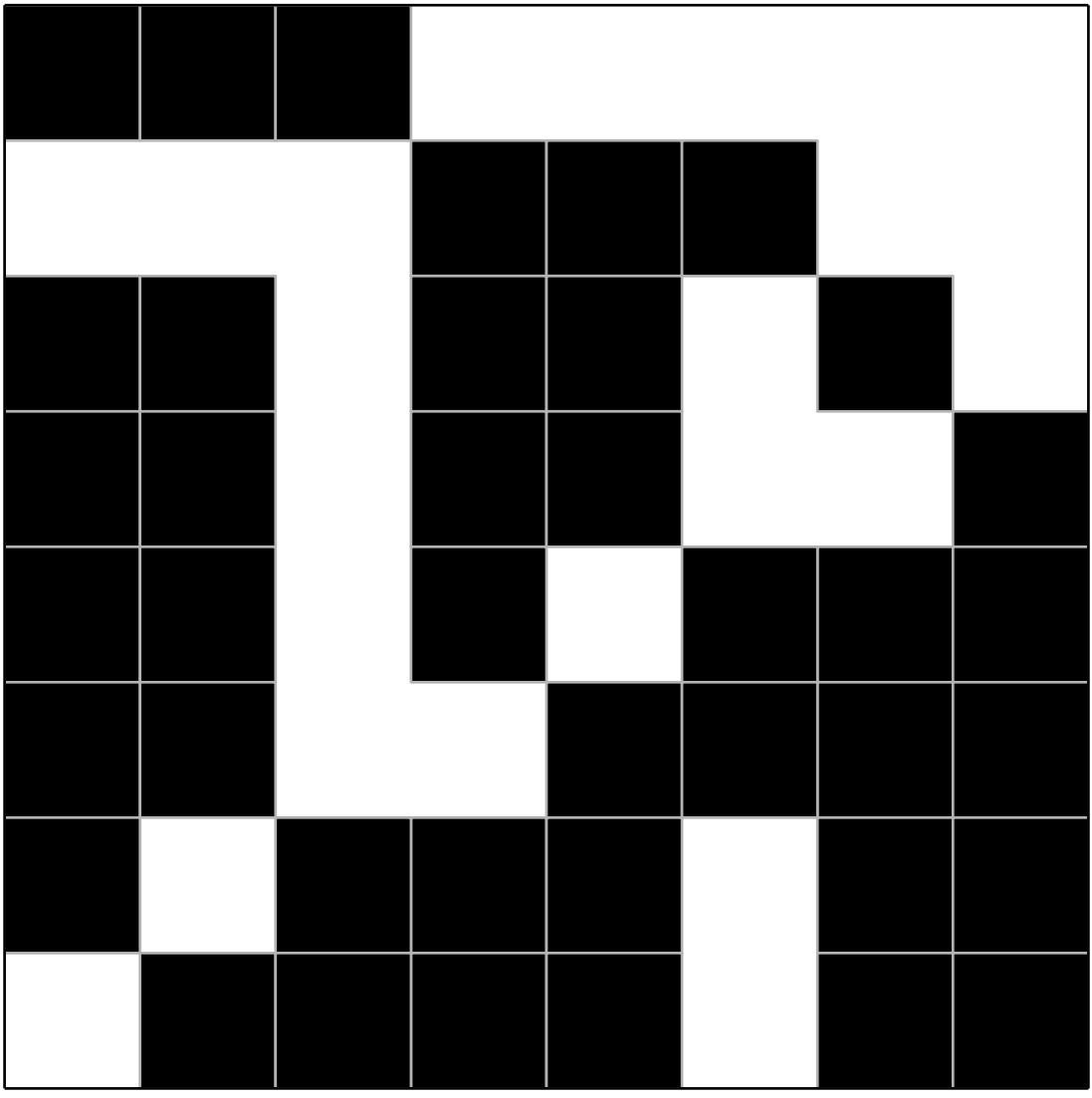


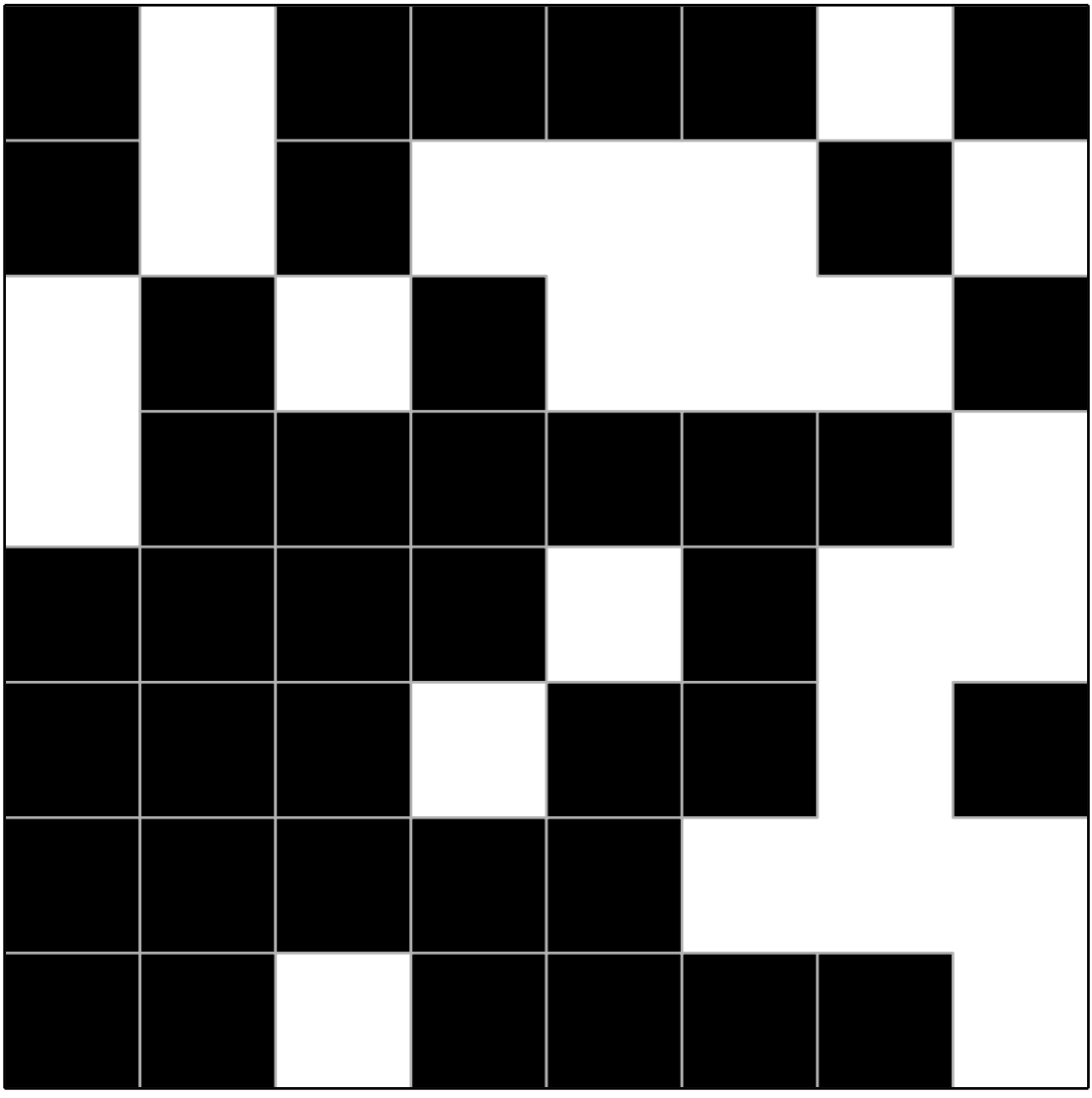
lib3_kincox-02 8x8 (40) con: 4, var: 4



lib3_kincox-02, cost: 4, diff: 4, explored: 3, time: 0.00s



lib3_kincox-03 8x8 (40) con: 4, var: 4



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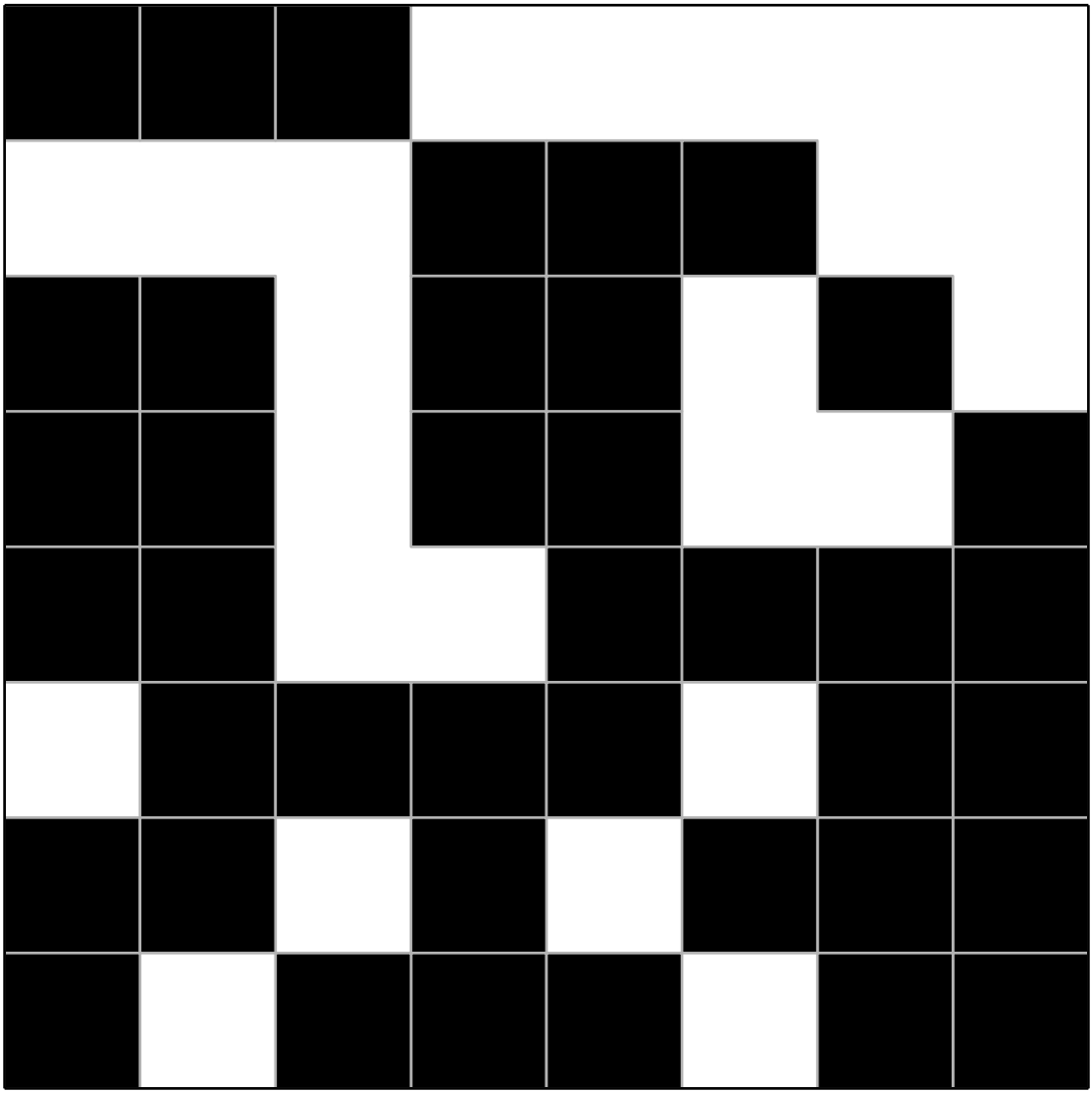
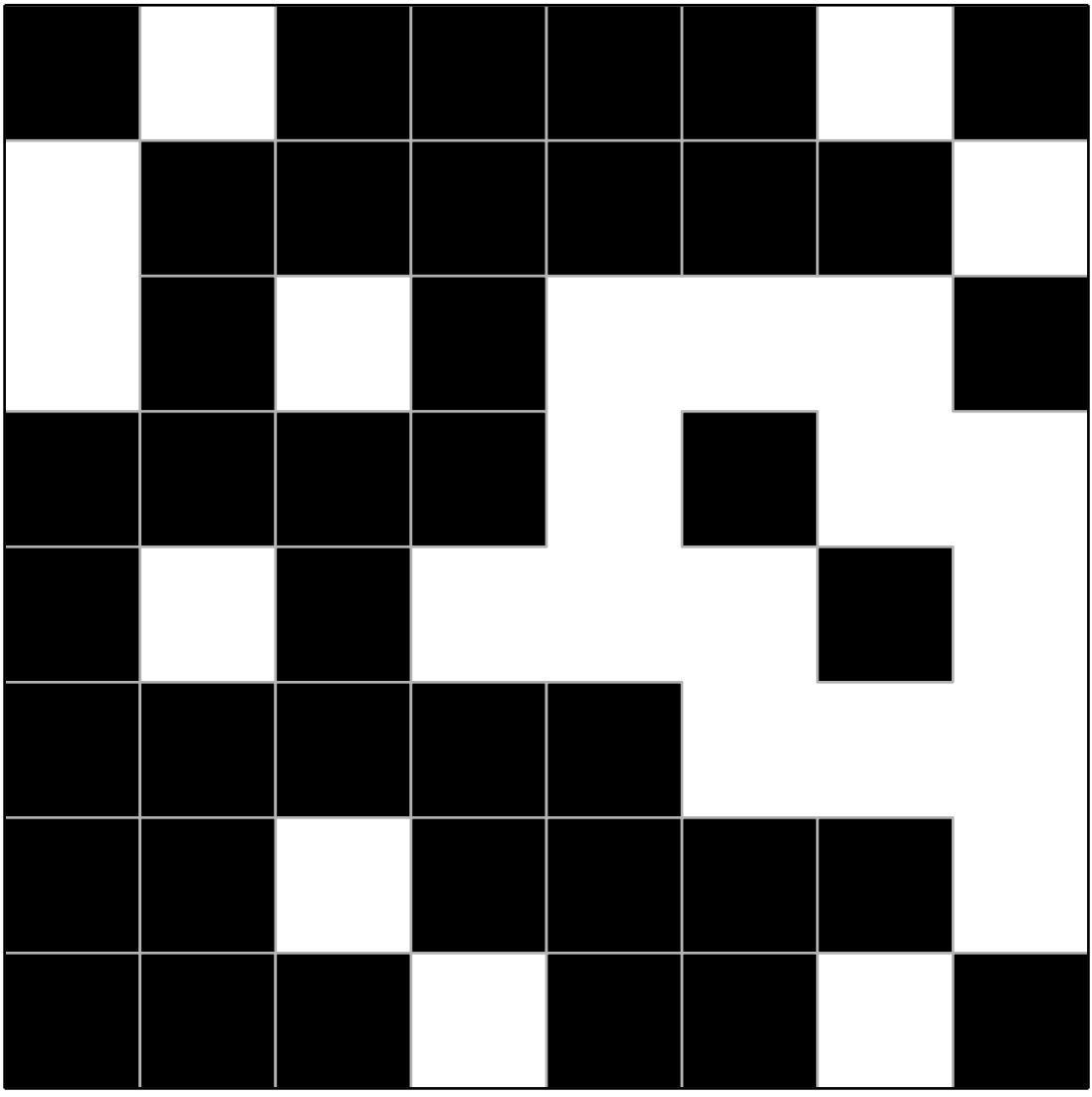
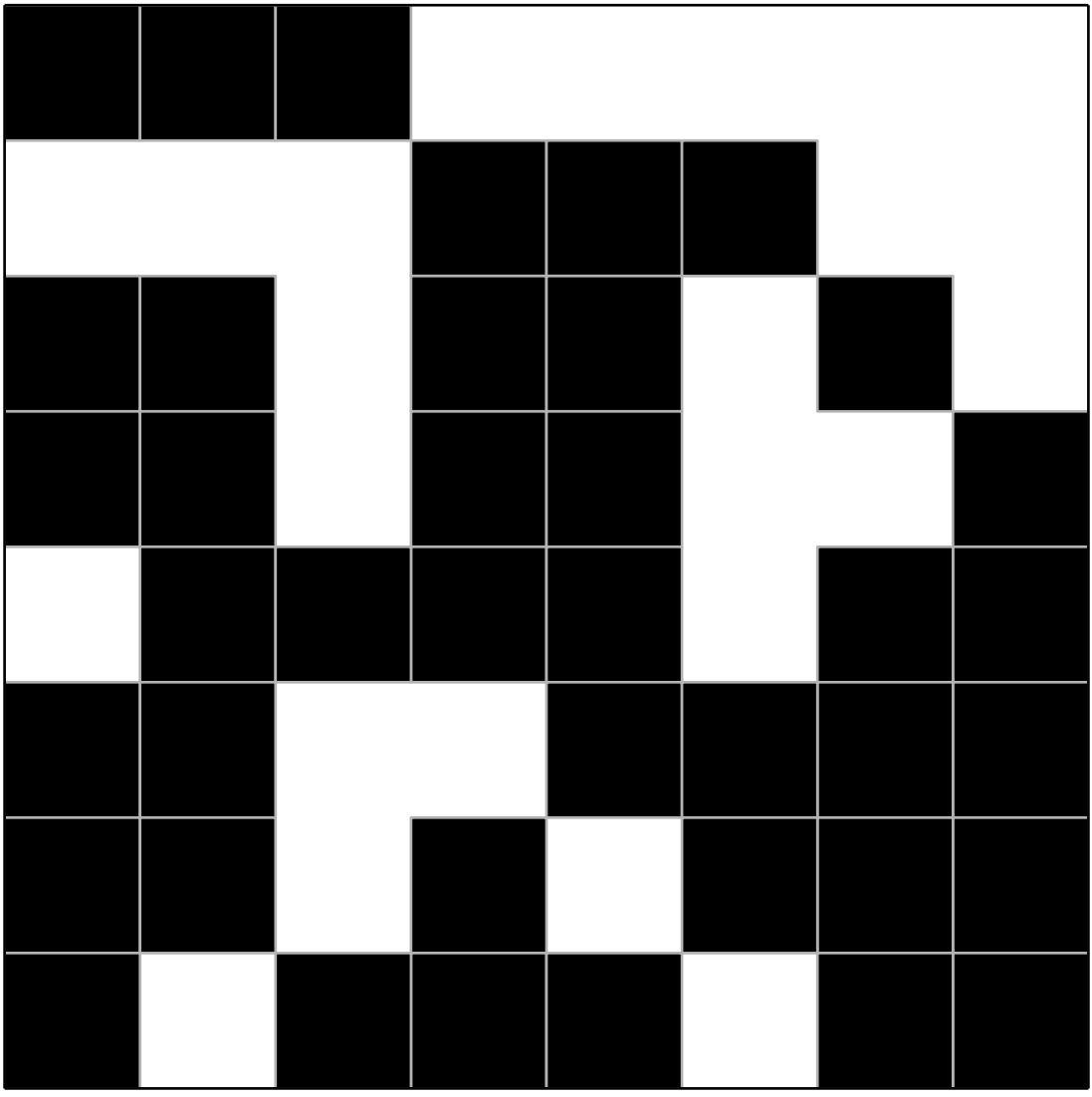


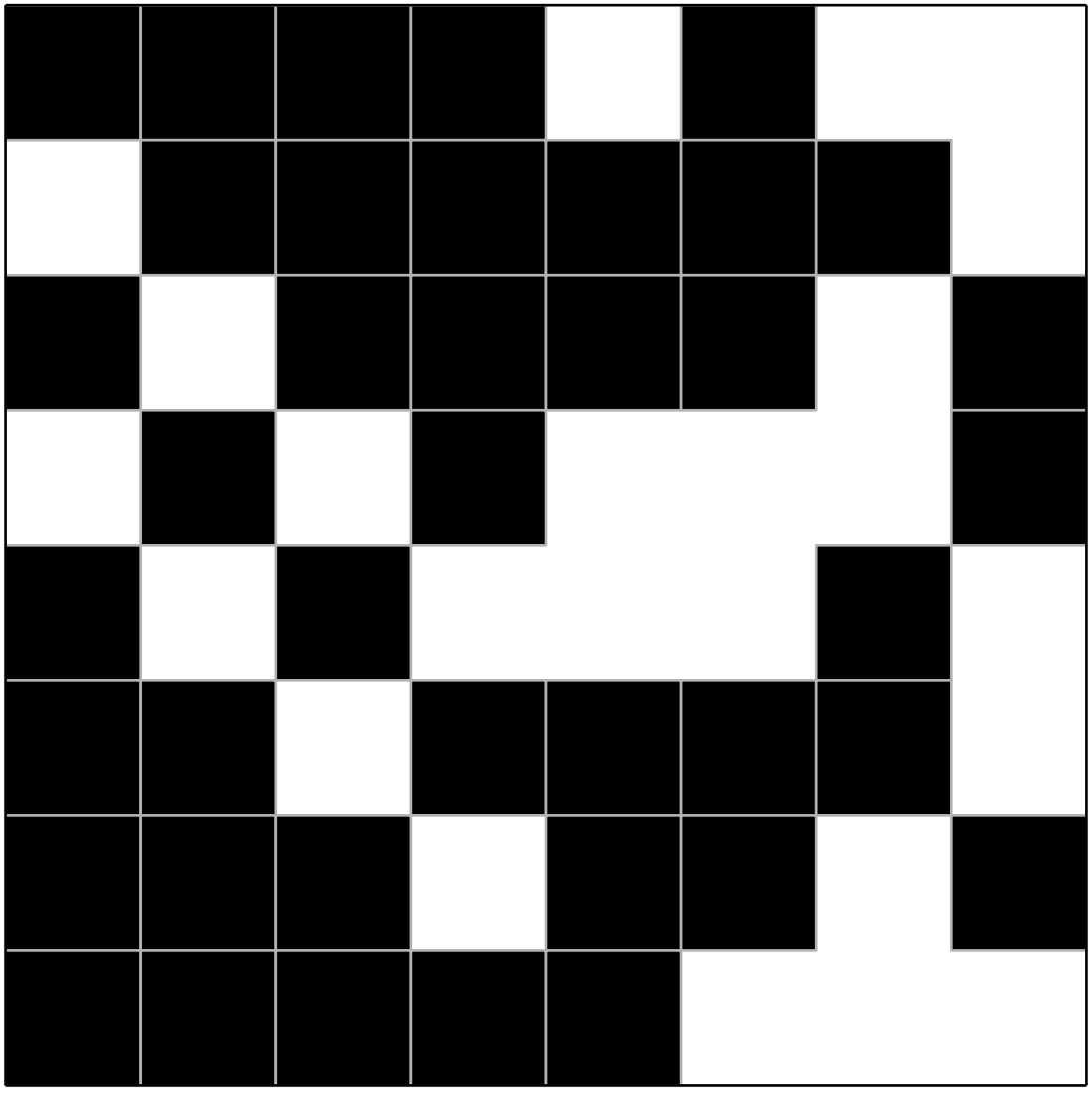
lib3_kincox-04 8x8 (40) con: 4, var: 4



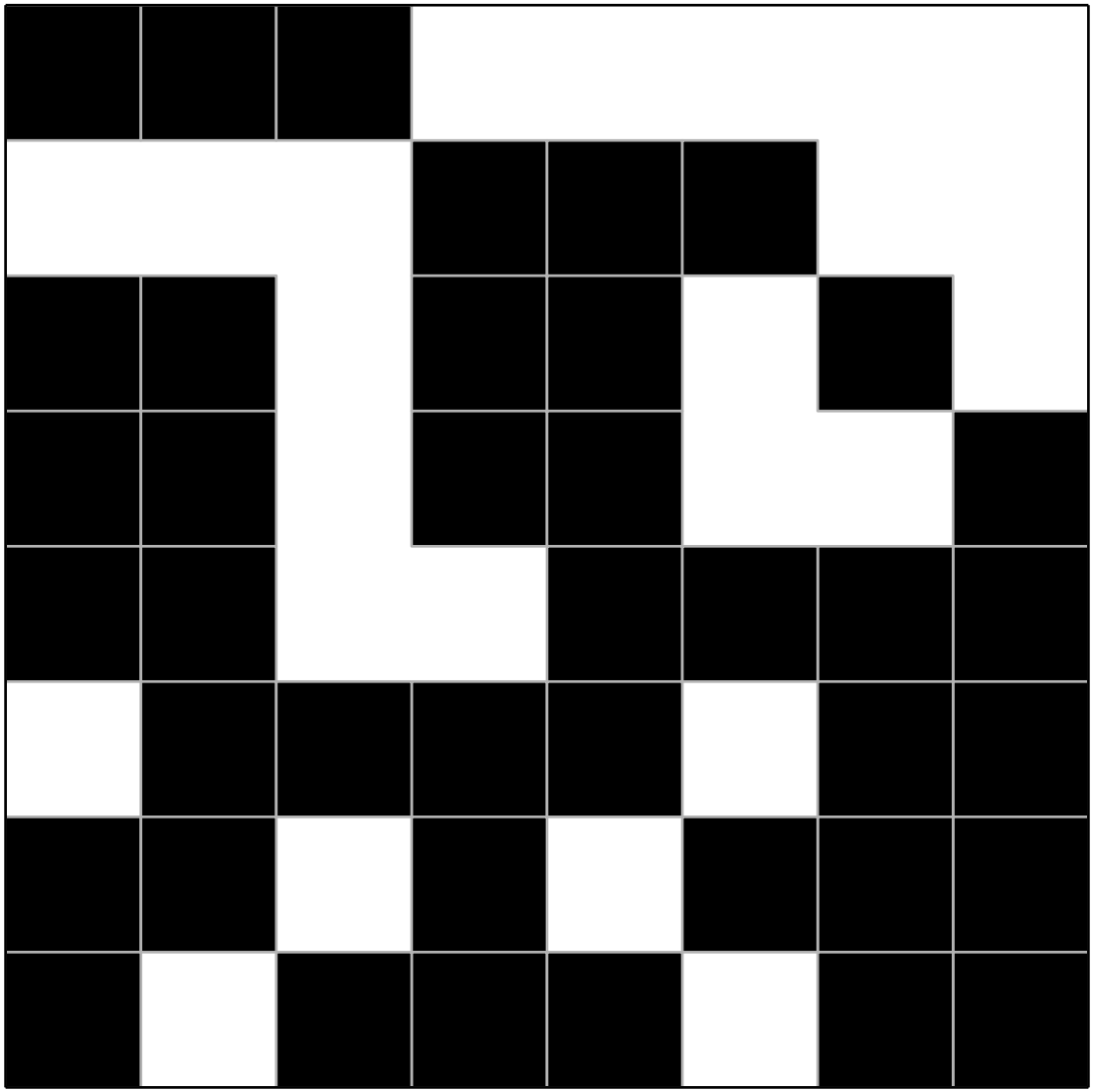
lib3_kincox-04, cost: 4, diff: 4, explored: 3, time: 0.00s



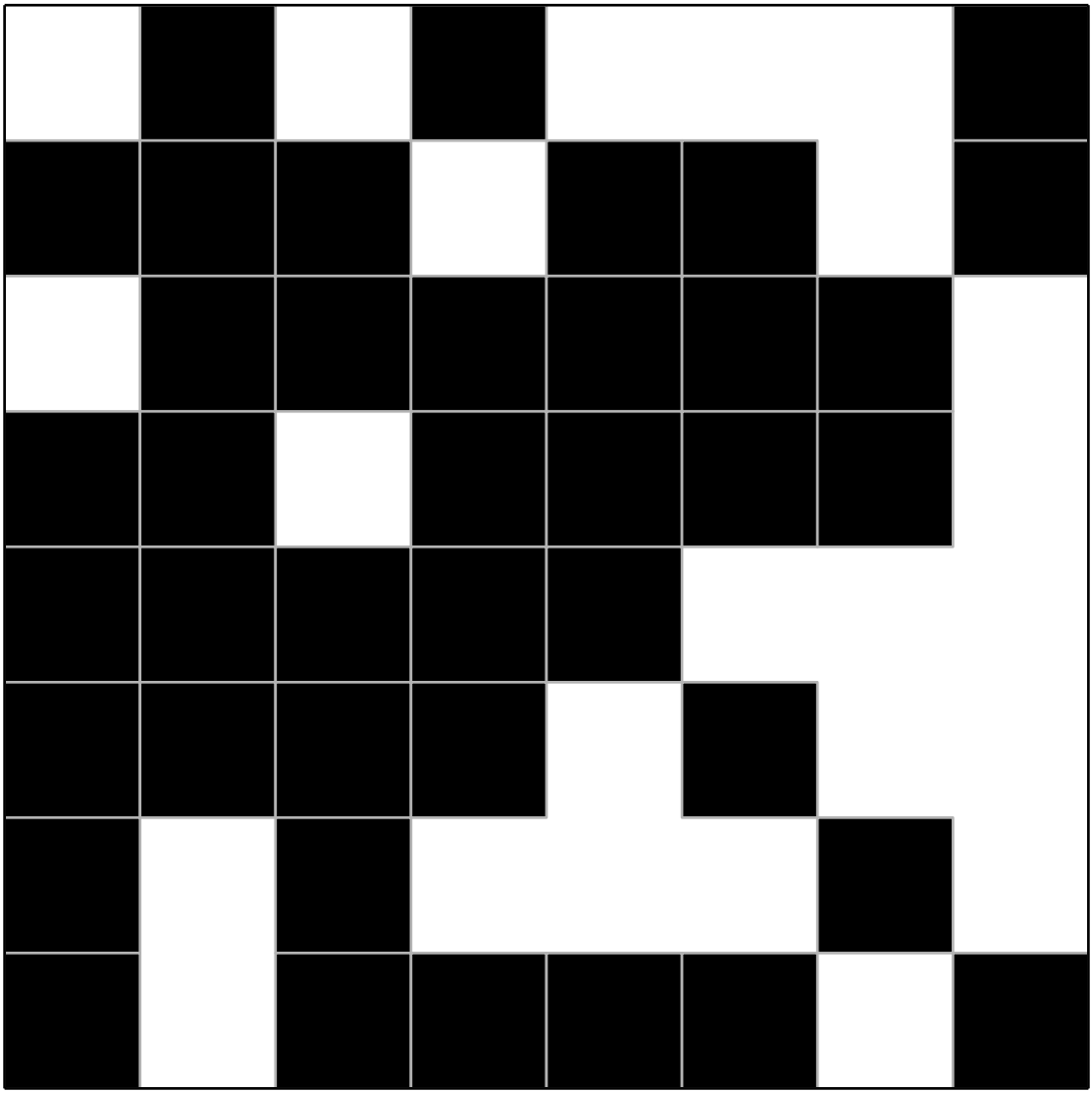
lib3_kincox-05 8x8 (40) con: 4, var: 4



lib3_kincox-05, cost: 4, diff: 4, explored: 3, time: 0.00s



lib3_kincox-06 8x8 (40) con: 4, var: 4



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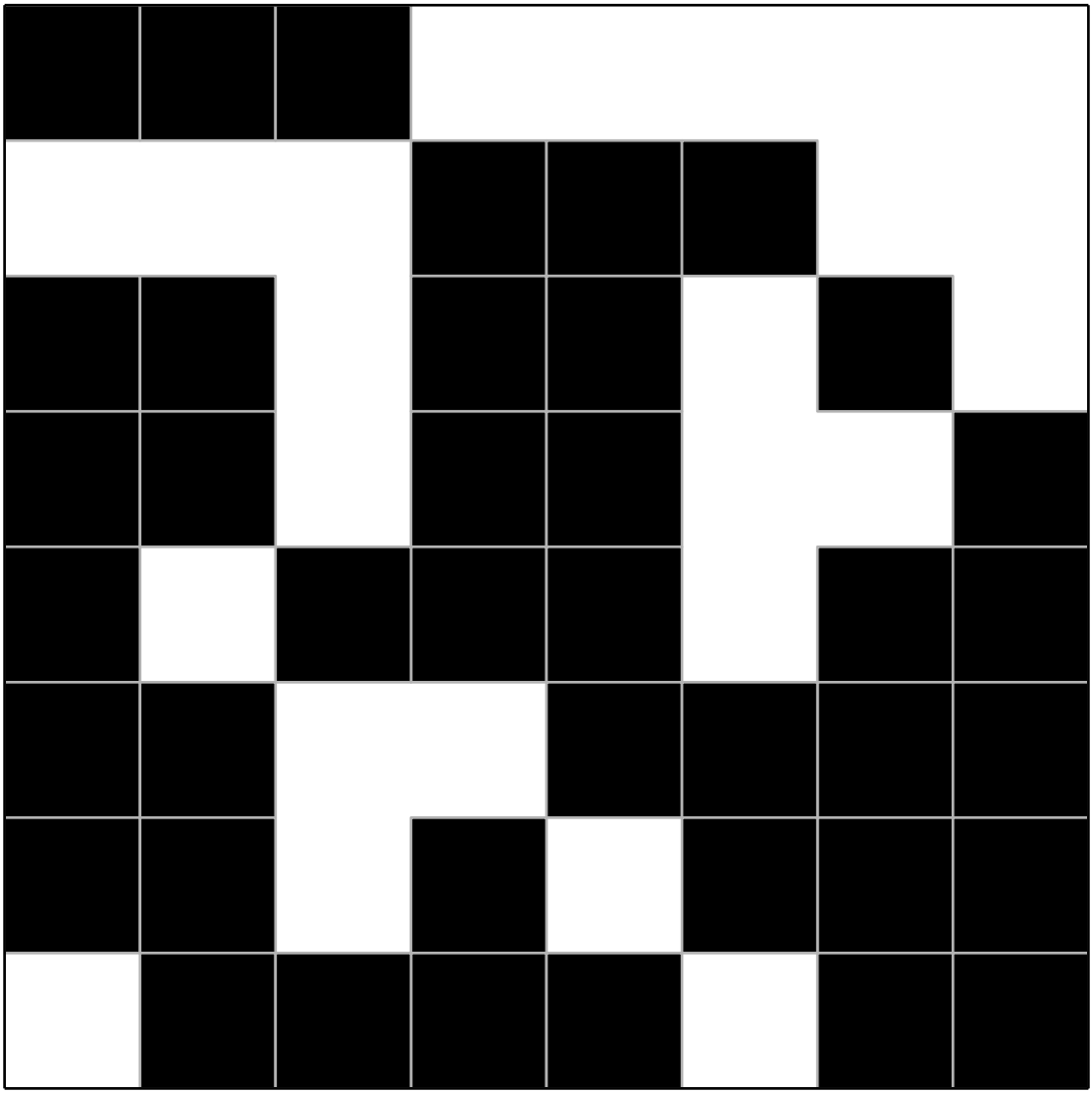
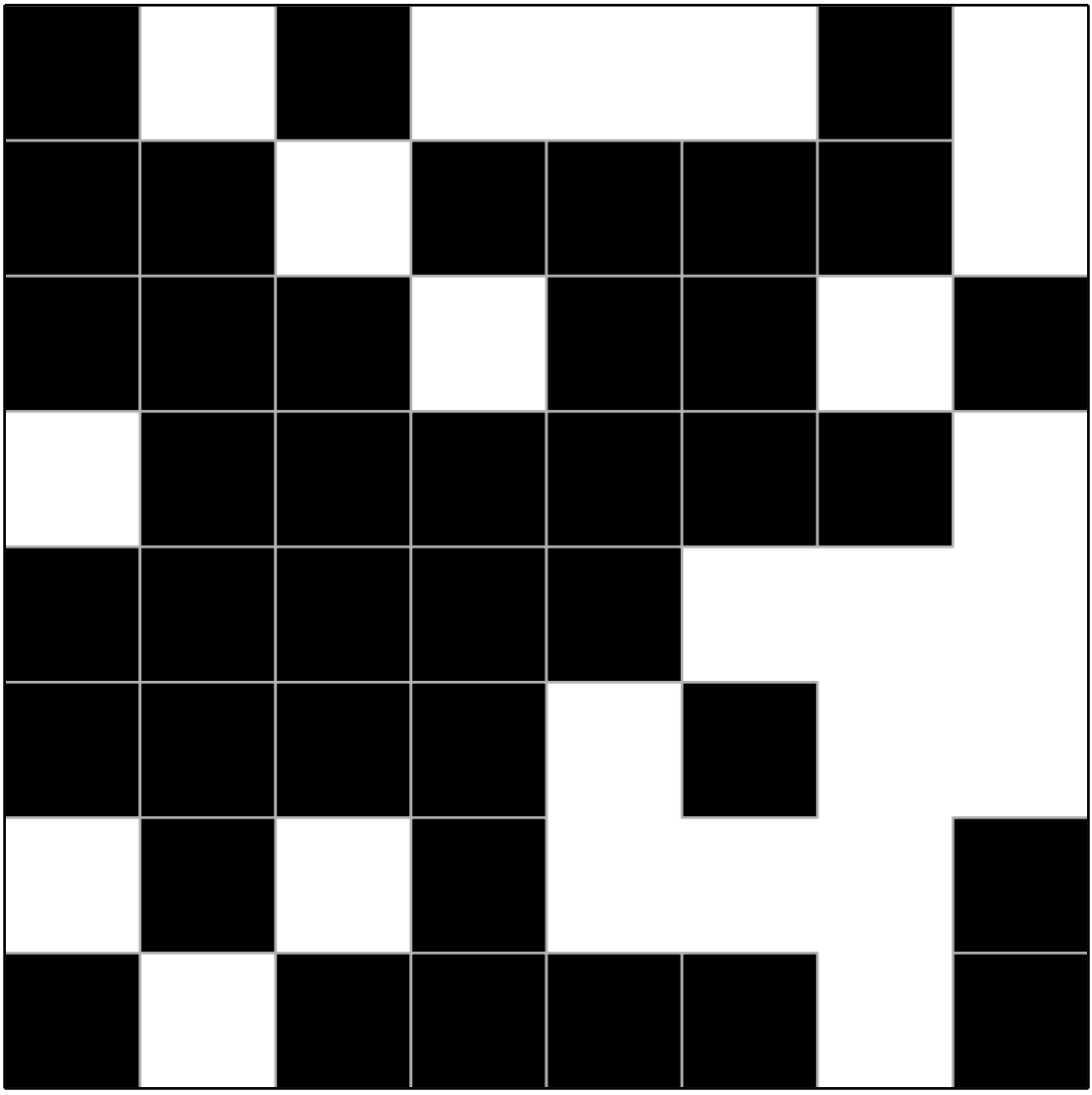


lib3_kincox-07 8x8 (40) con: 4, var: 4



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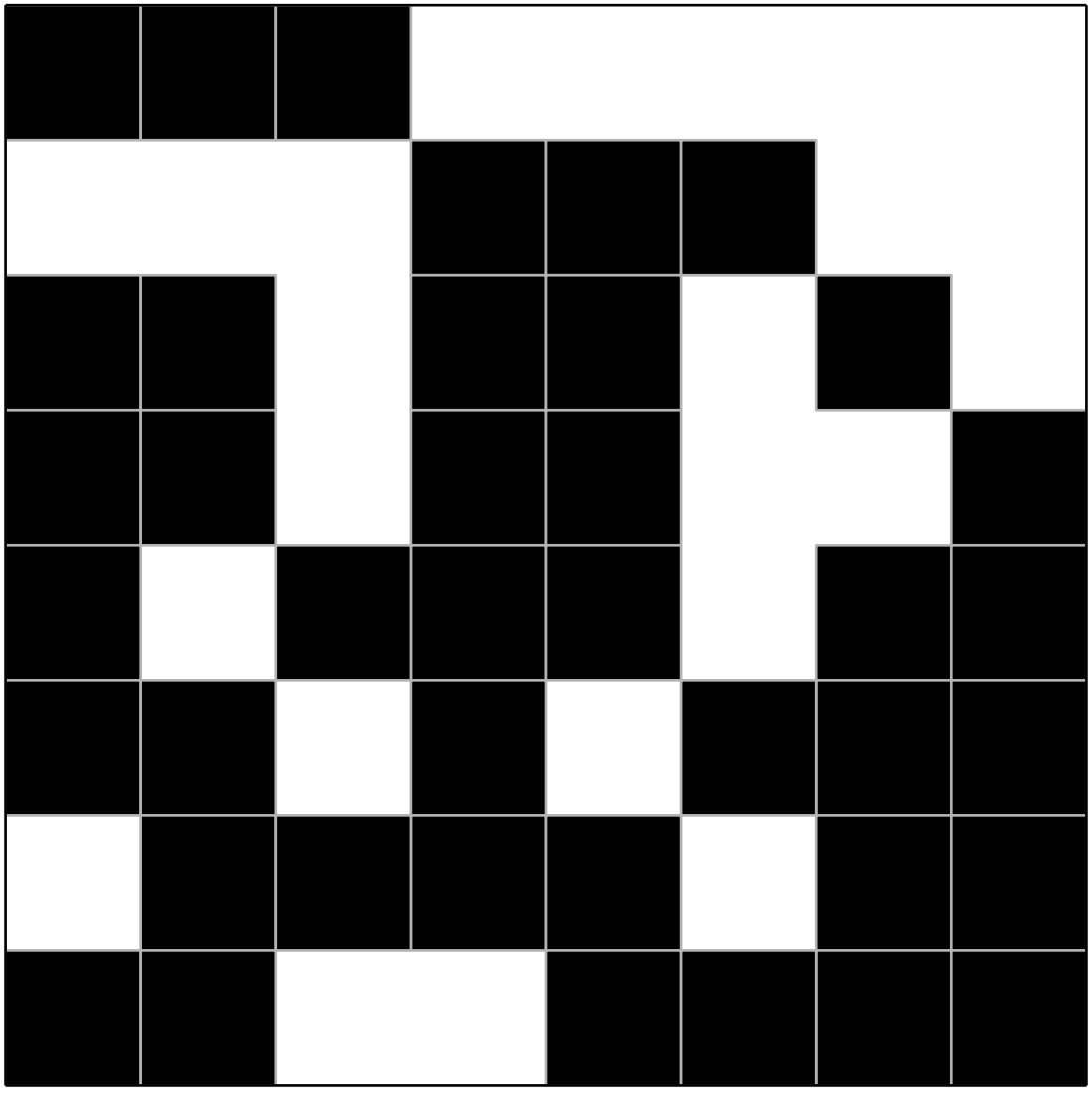
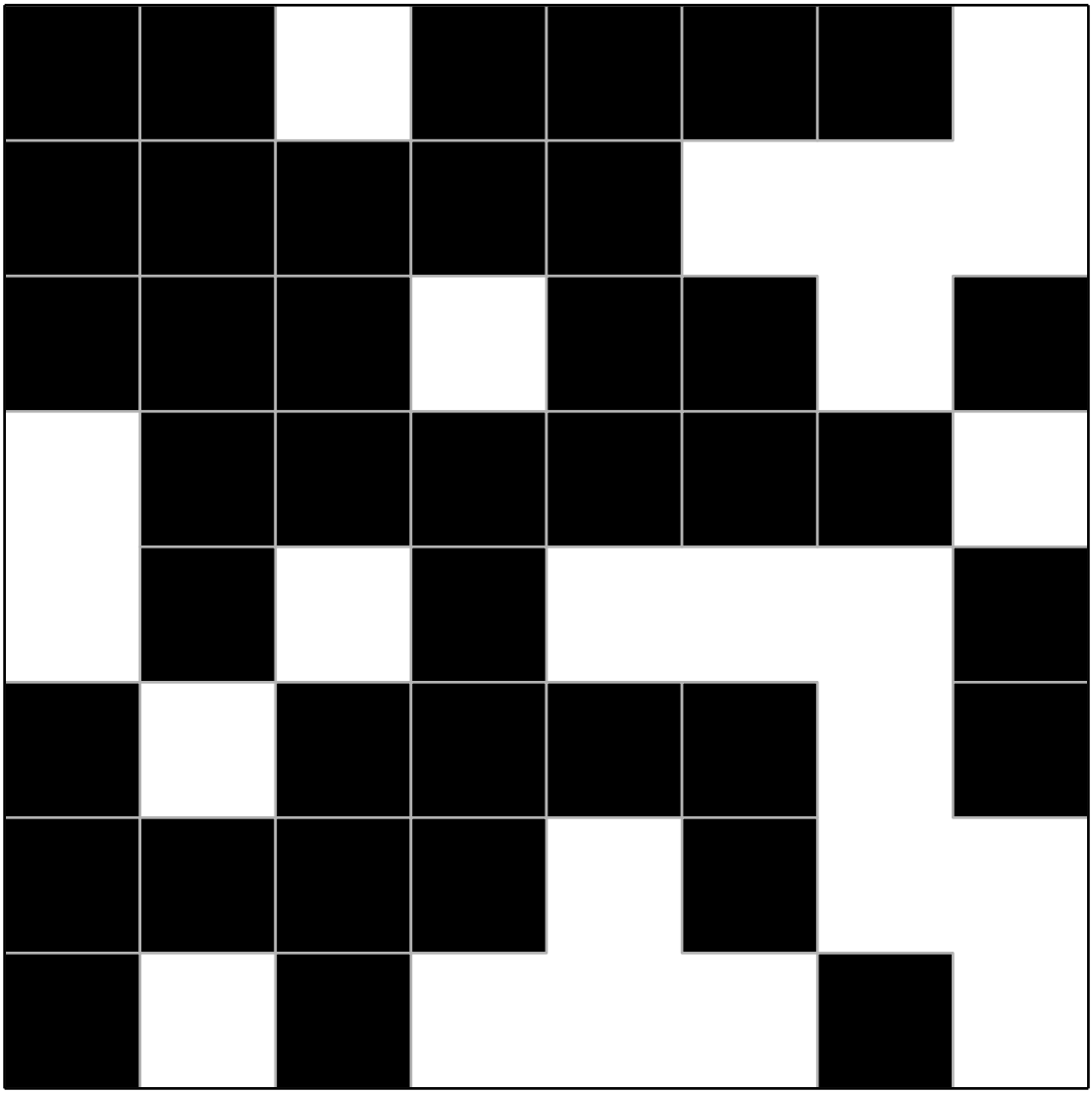
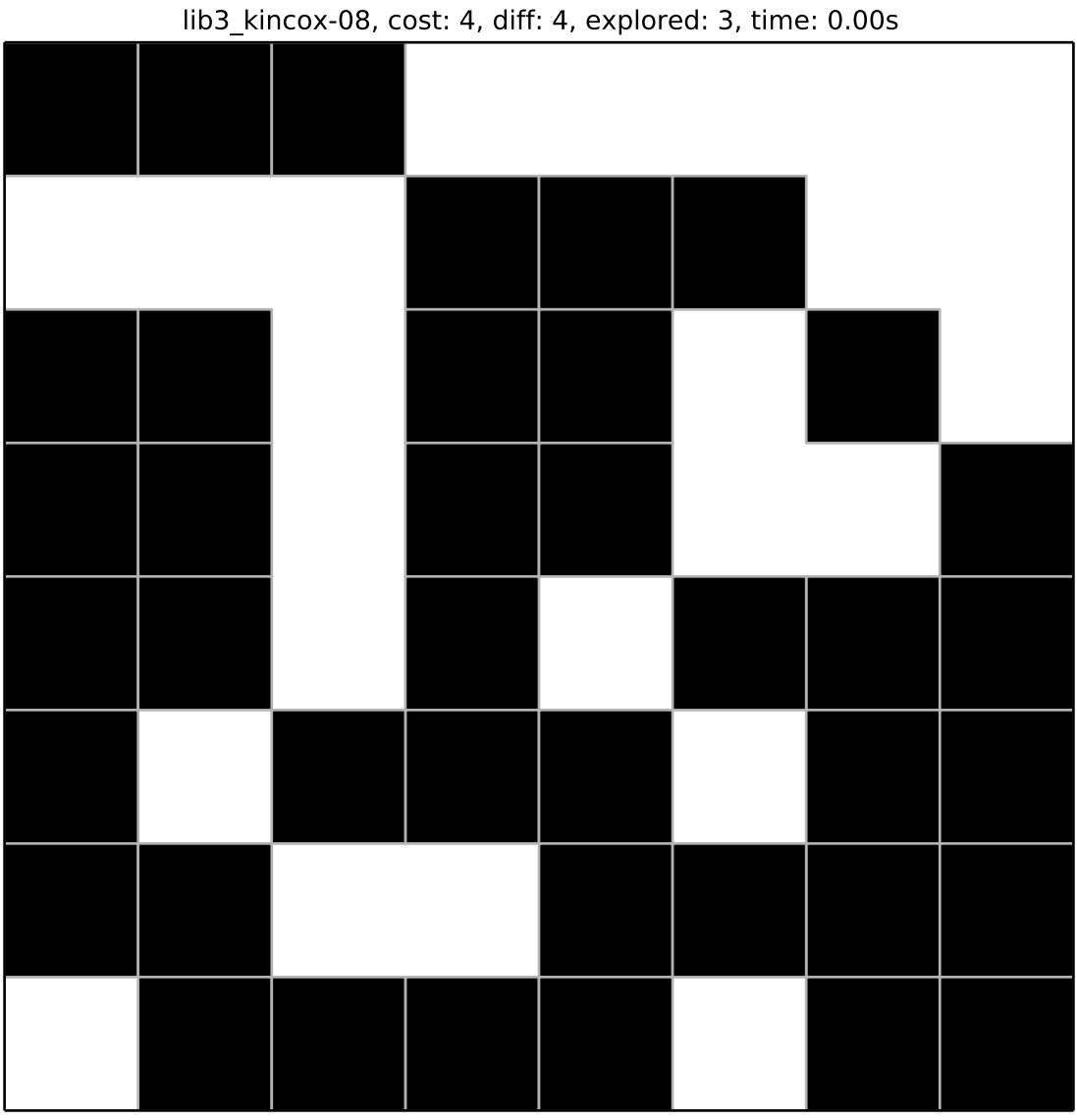


lib3_kincox-08 8x8 (40) con: 4, var: 4

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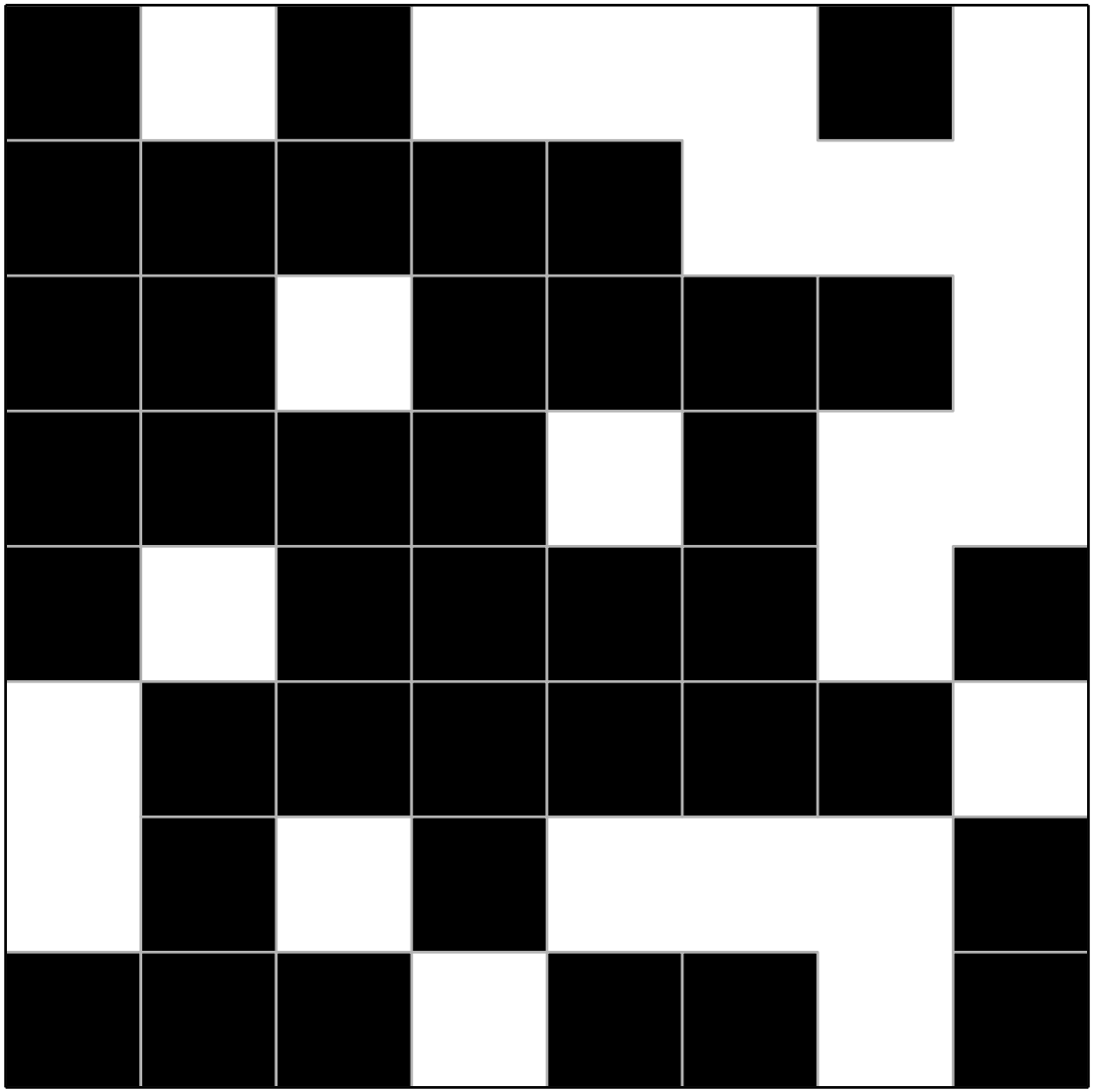
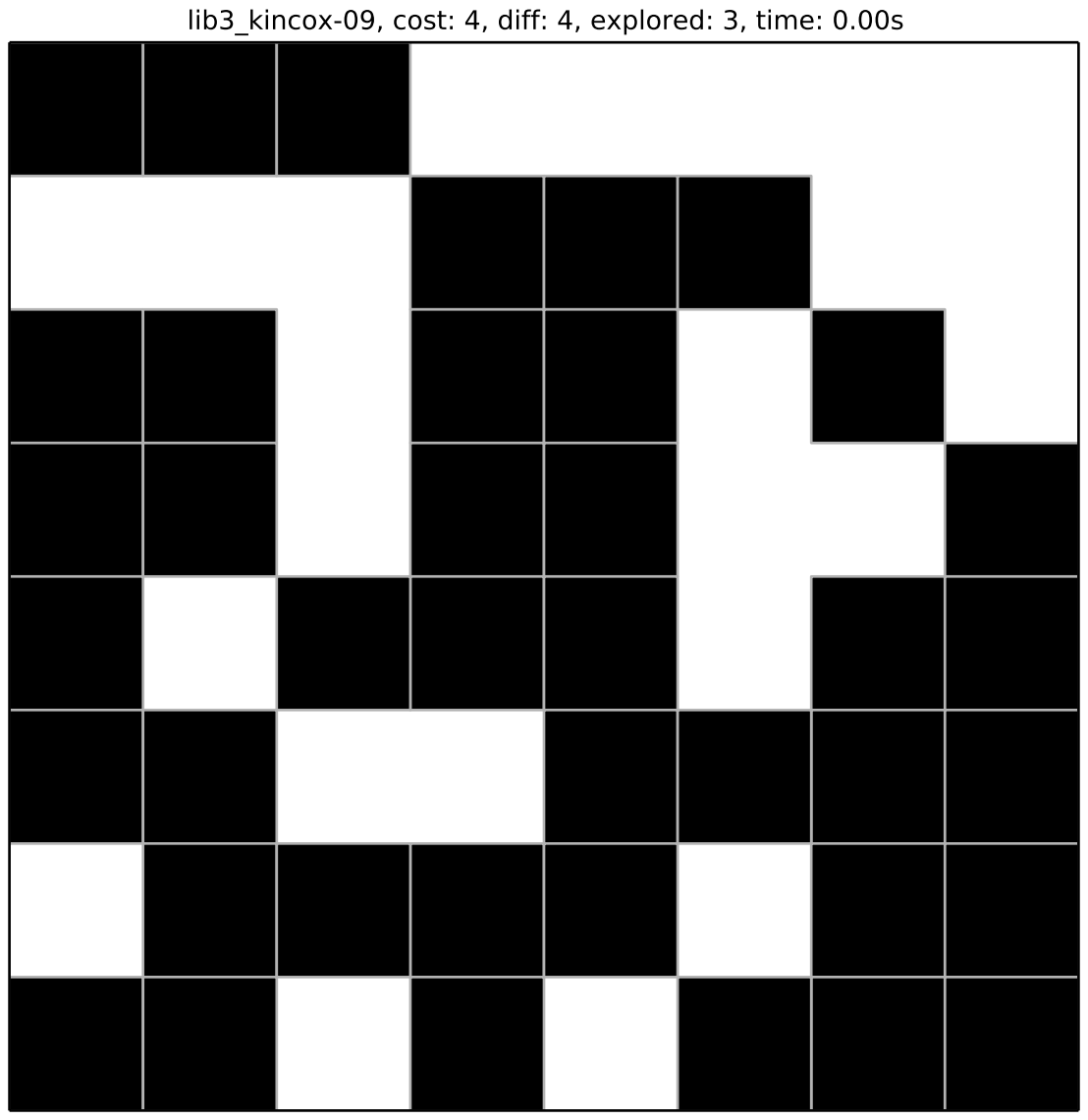
lib3_kincox-09 8x8 (40) con: 4, var: 4

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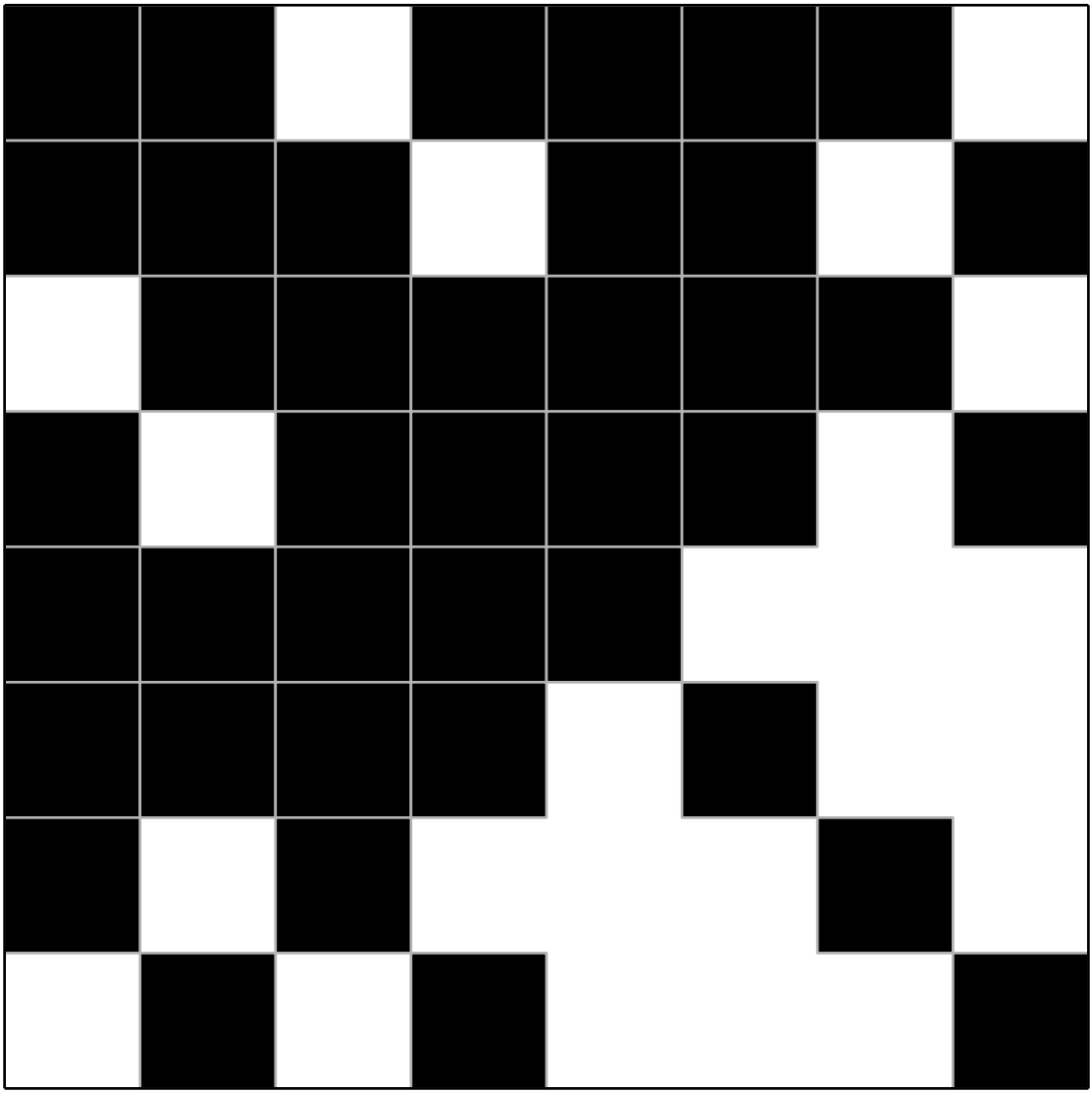
lib3_kincox-IN 8x8 (40) con: 4, var: 4



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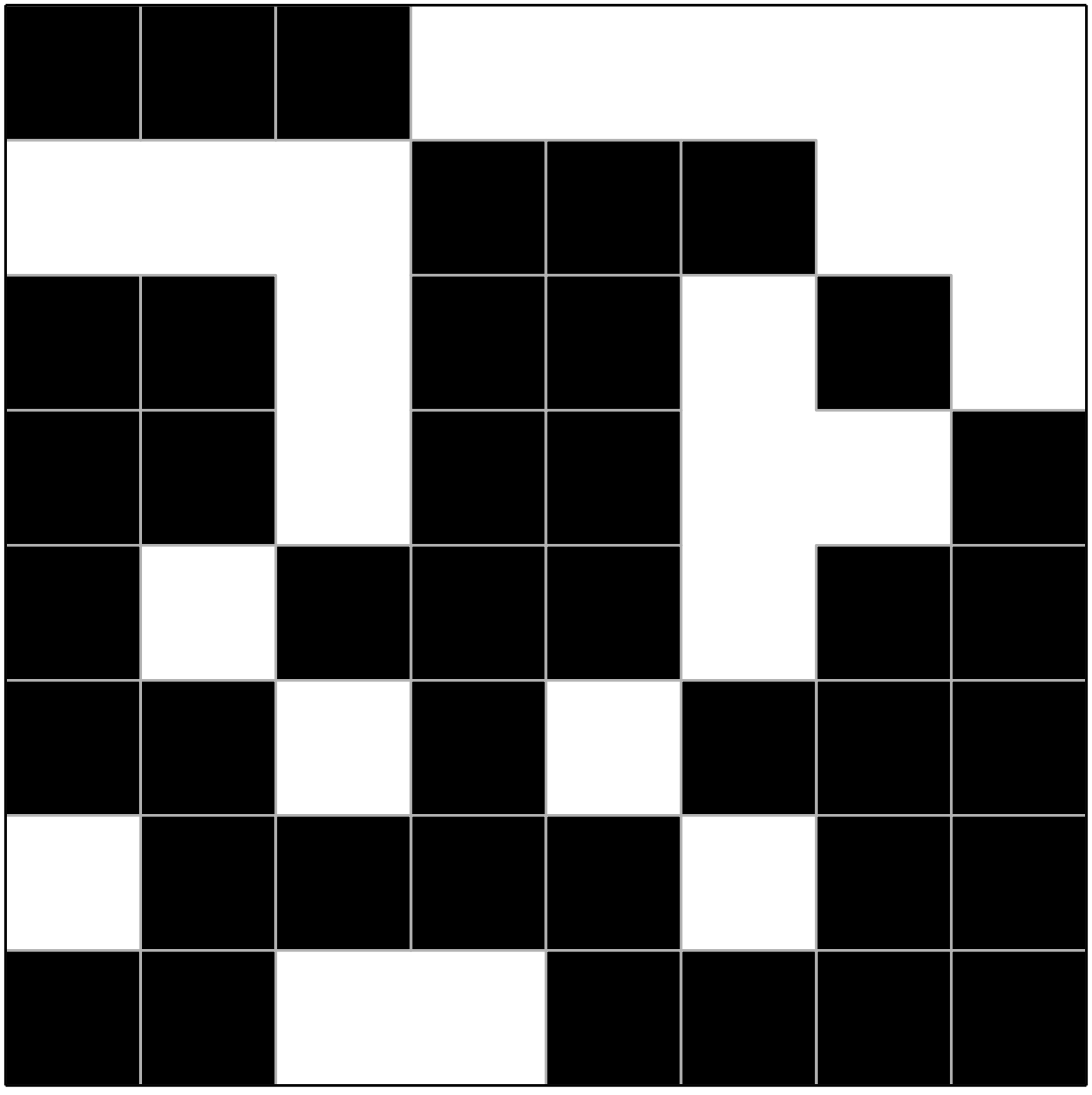
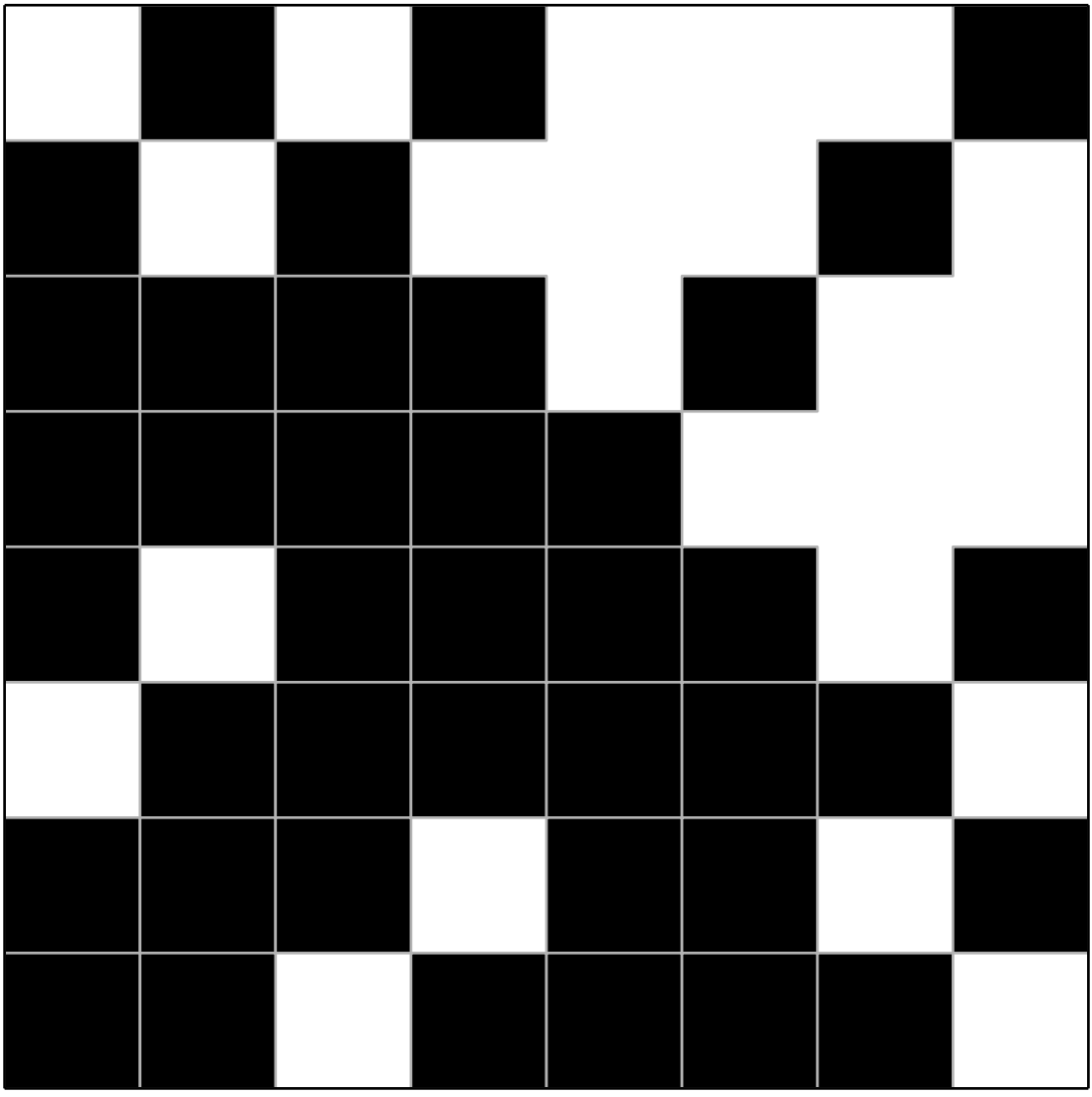
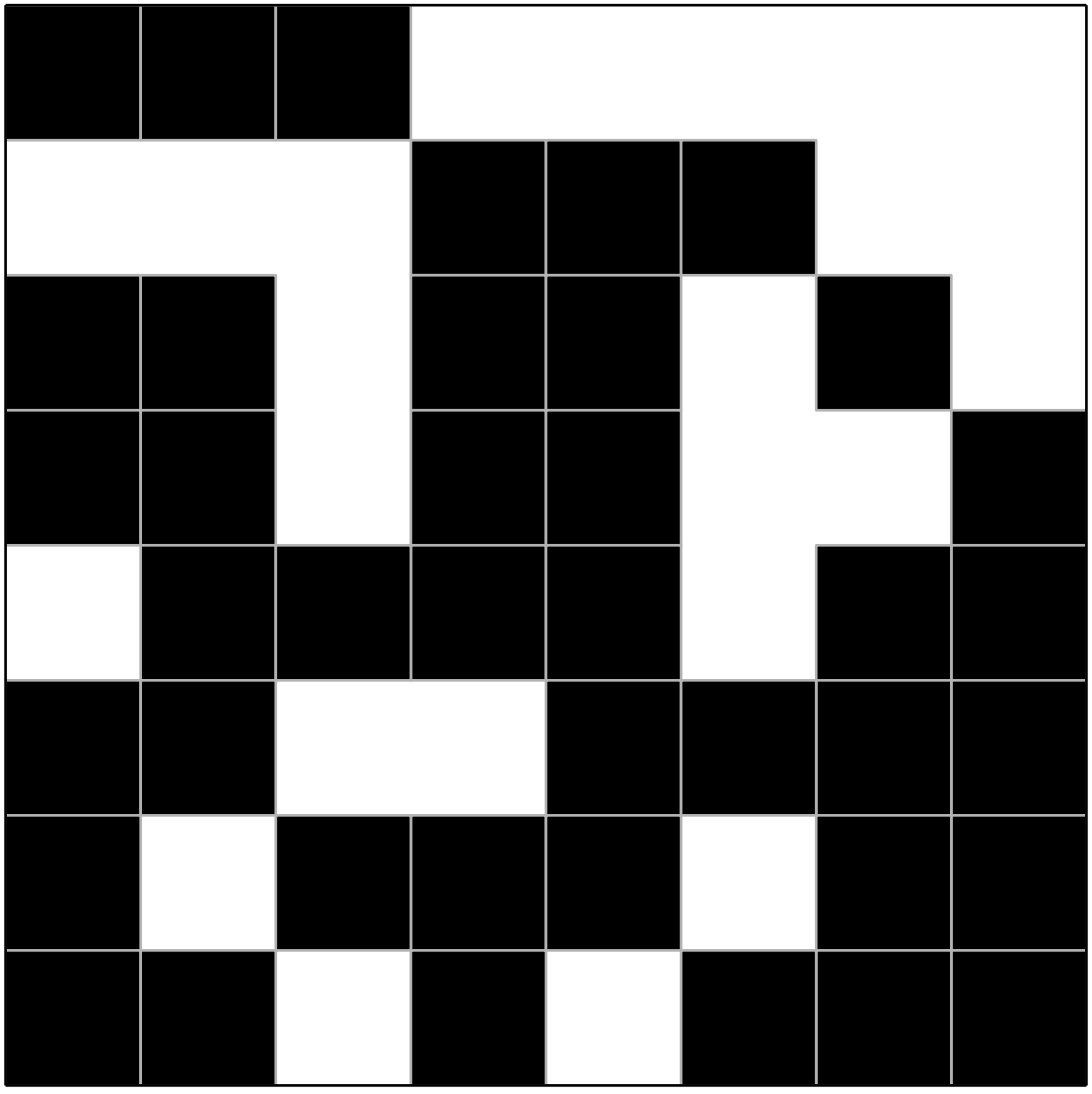


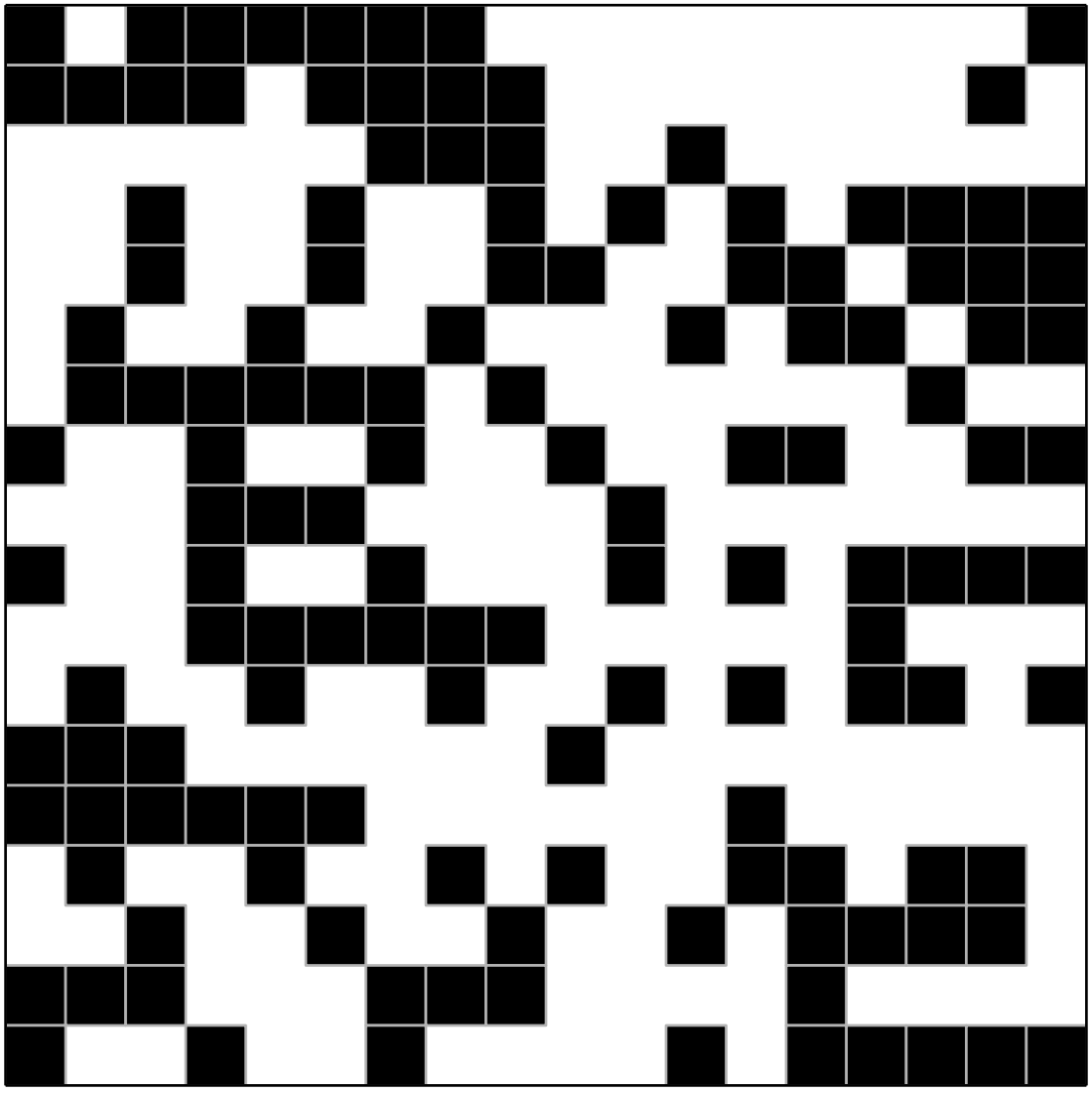
lib3_kincox-RE 8x8 (40) con: 4, var: 4

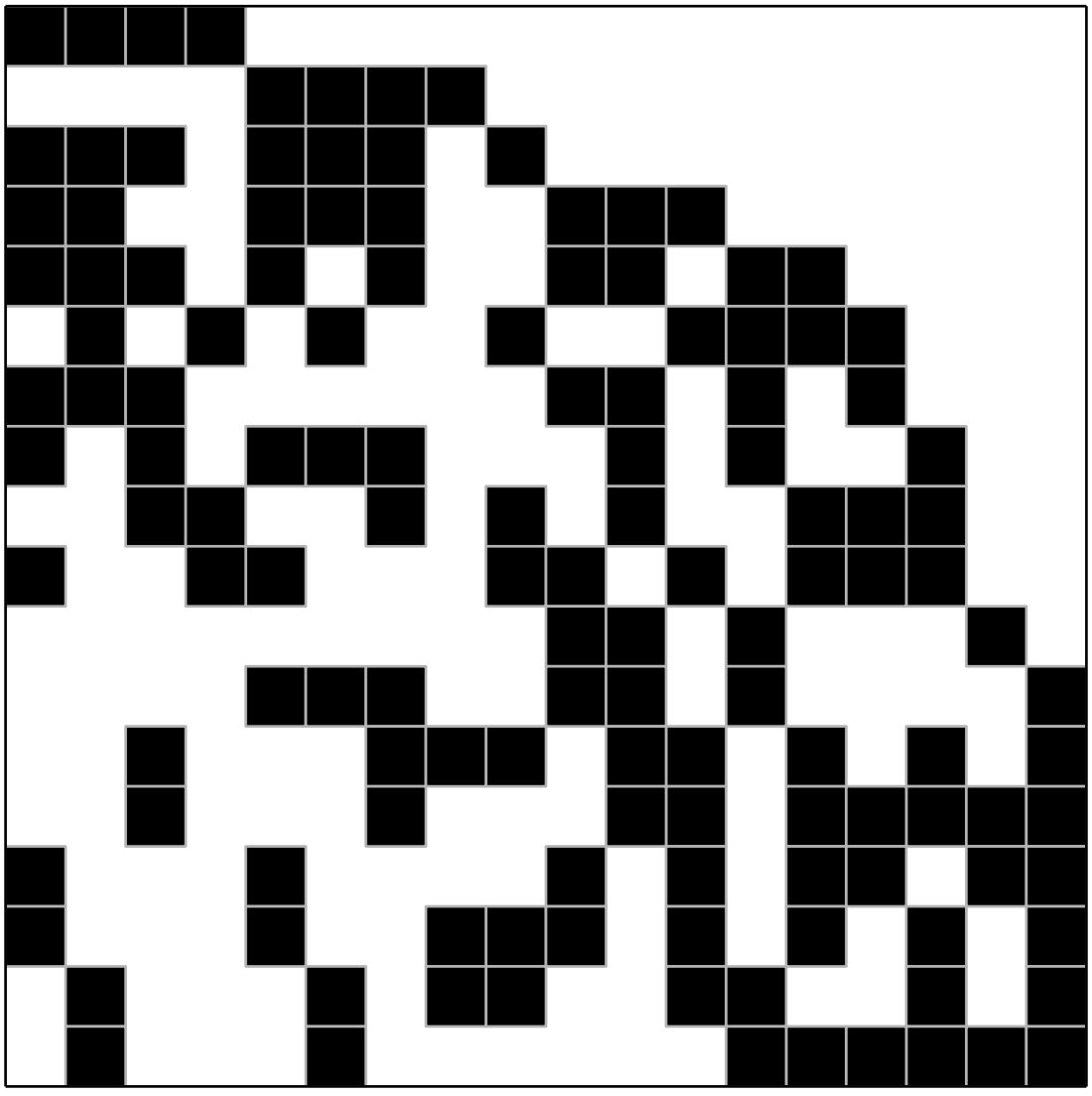


lib3_kincox-RE, cost: 4, diff: 4, explored: 3, time: 0.00s

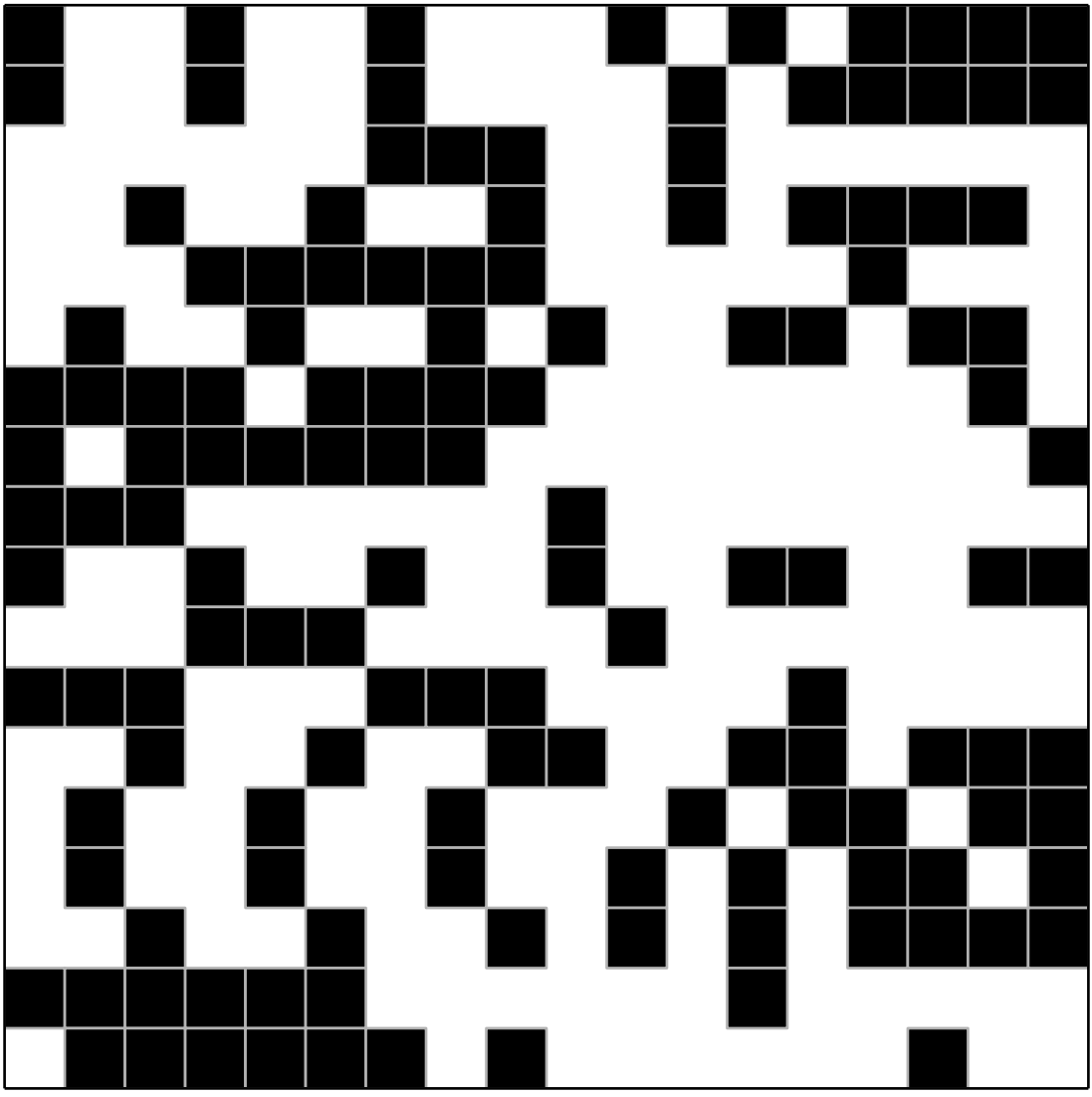


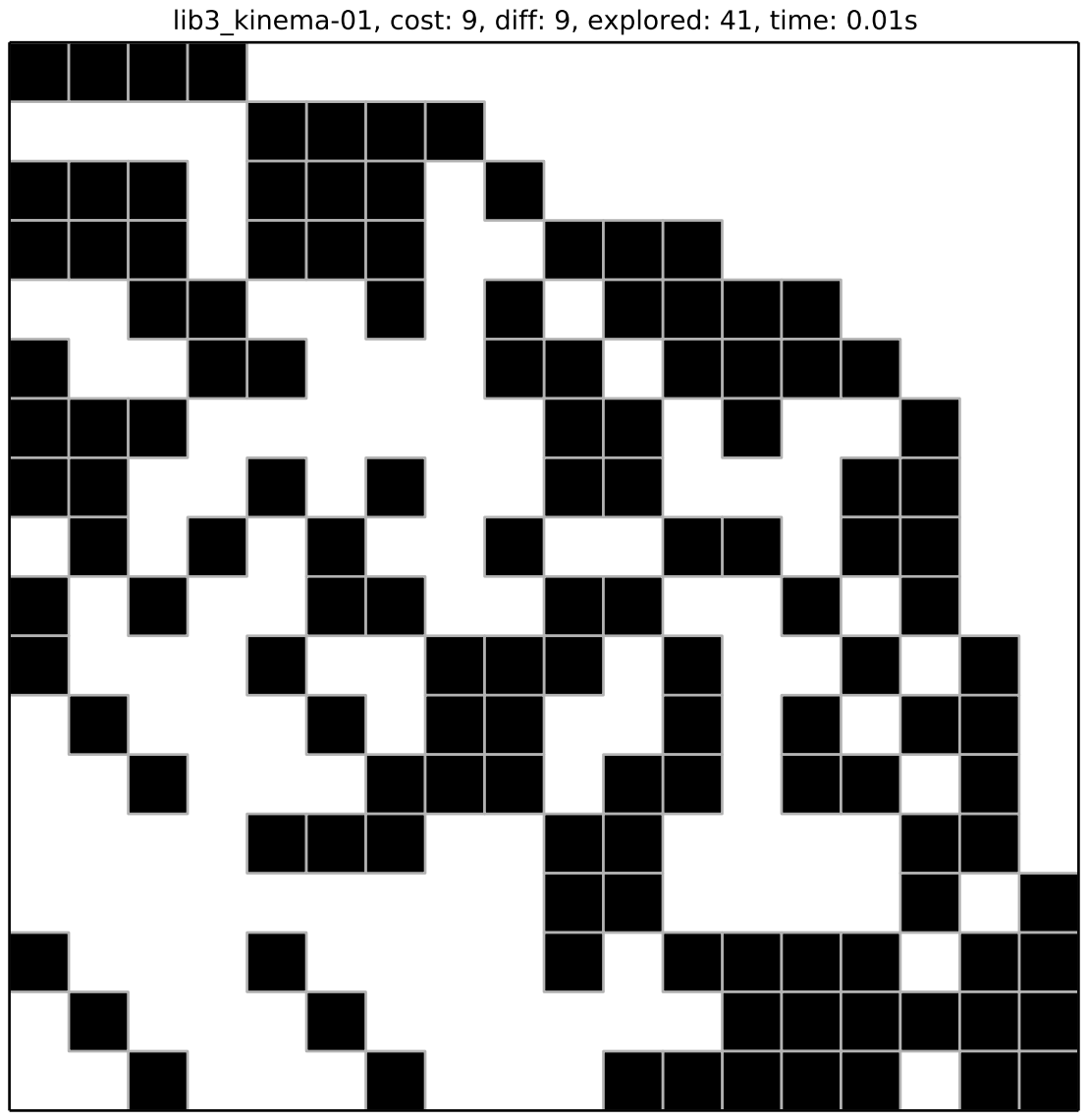
lib3_kinema-00 18x18 (134) con: 9, var: 9



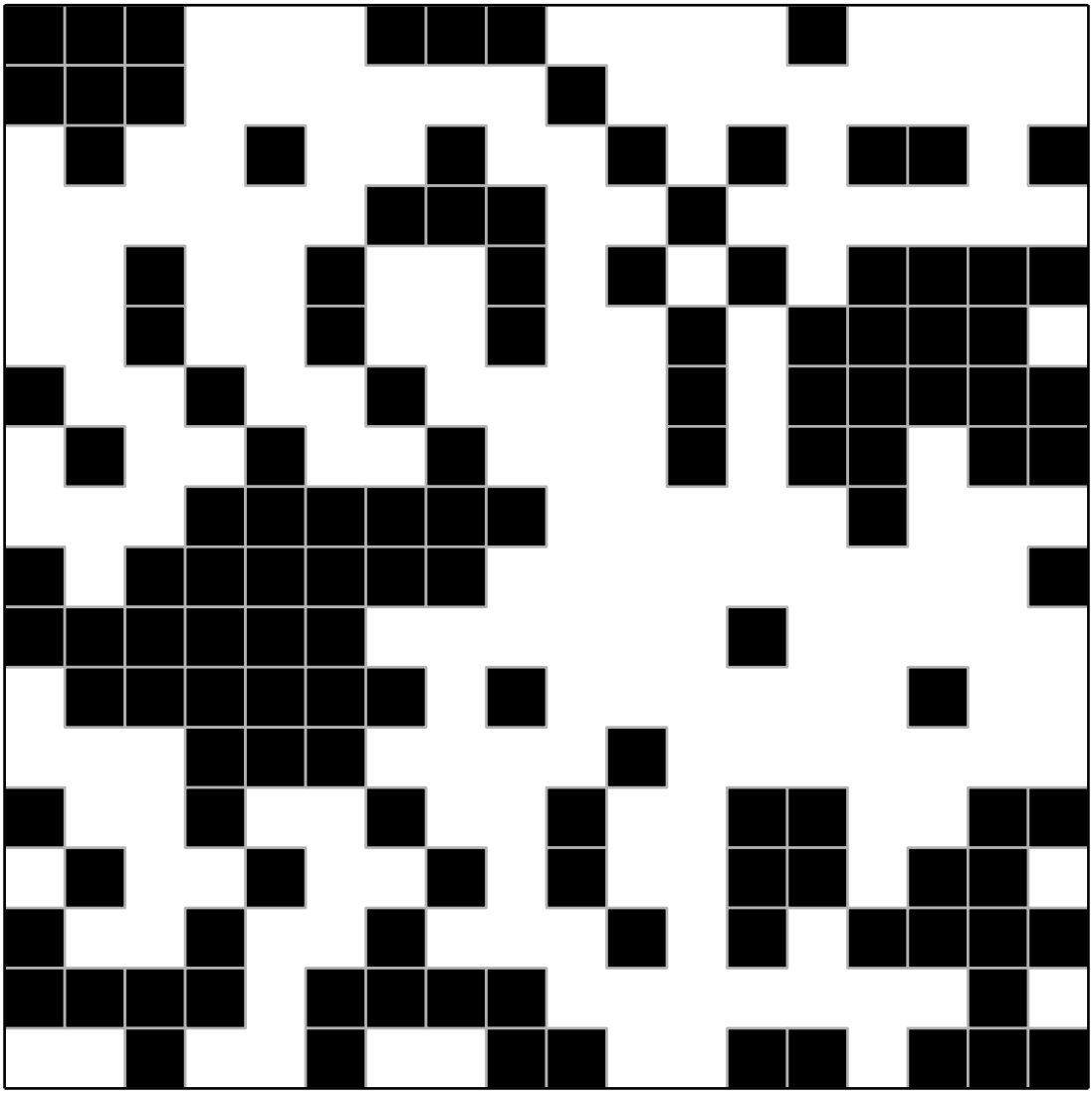

lib3_kinema-00, cost: 9, diff: 9, explored: 43, time: 0.01s

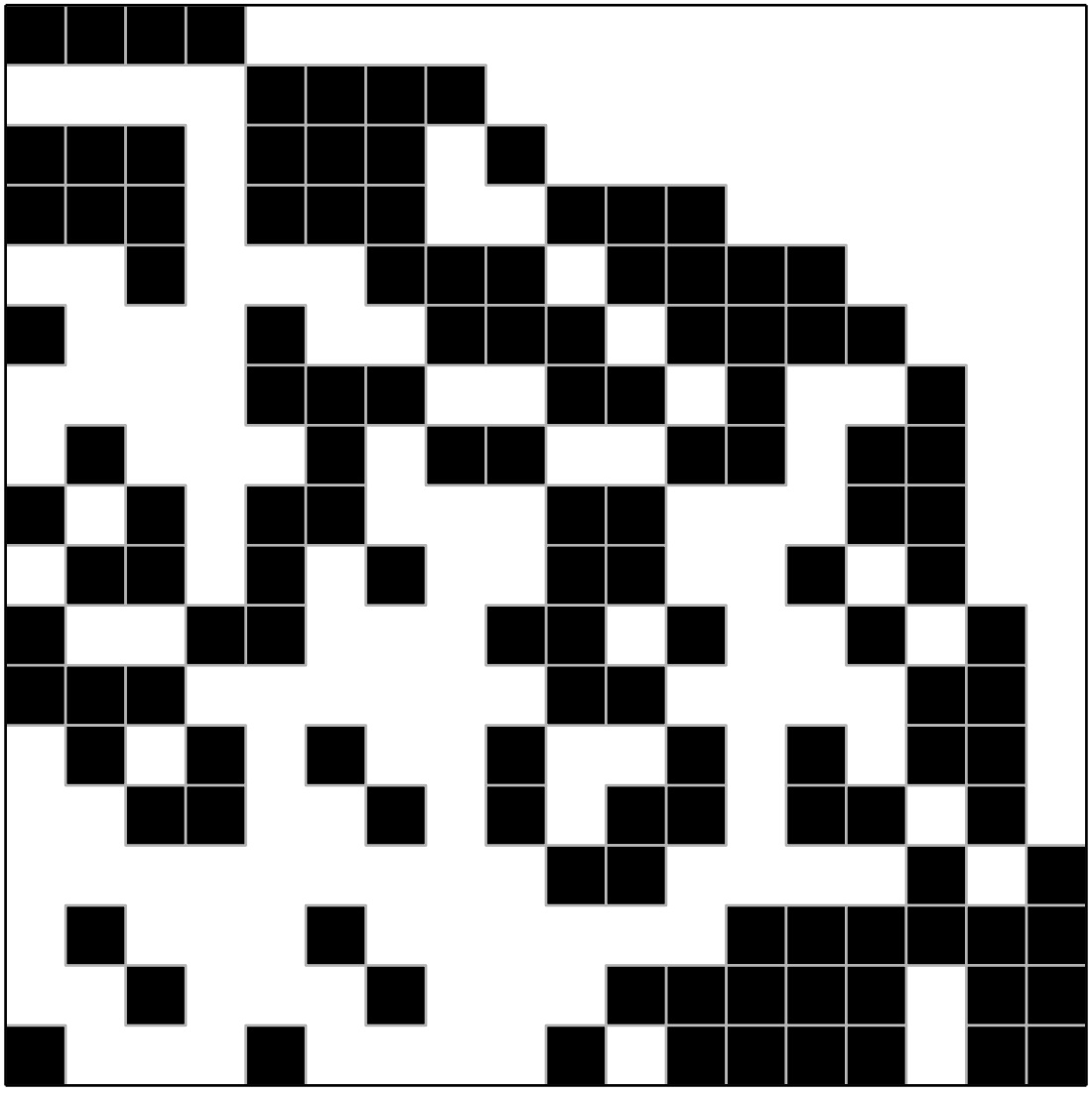
lib3_kinema-01 18x18 (134) con: 9, var: 9




lib3_kinema-01, cost: 9, diff: 9, explored: 41, time: 0.01s

lib3_kinema-02 18x18 (134) con: 9, var: 9

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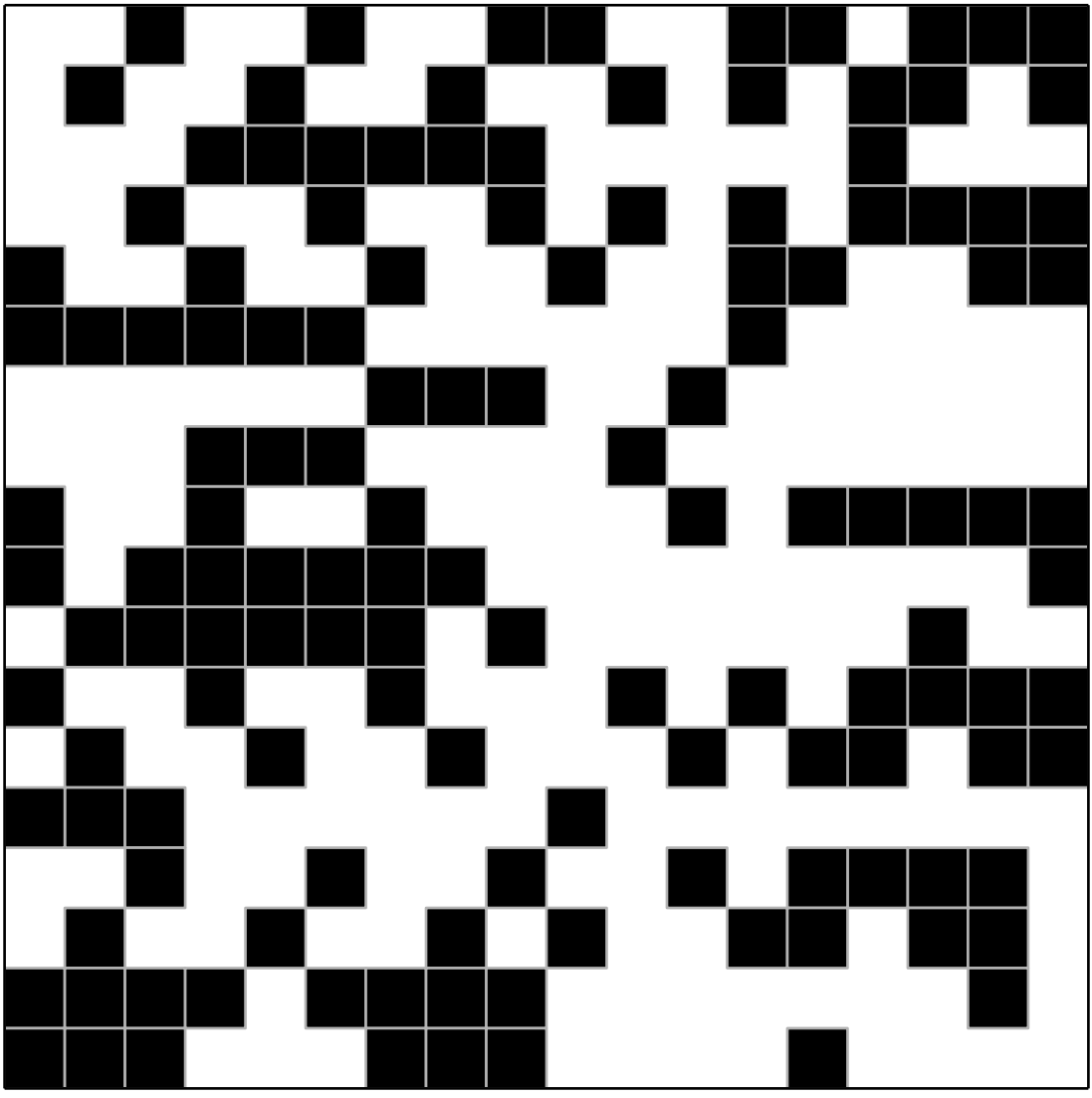
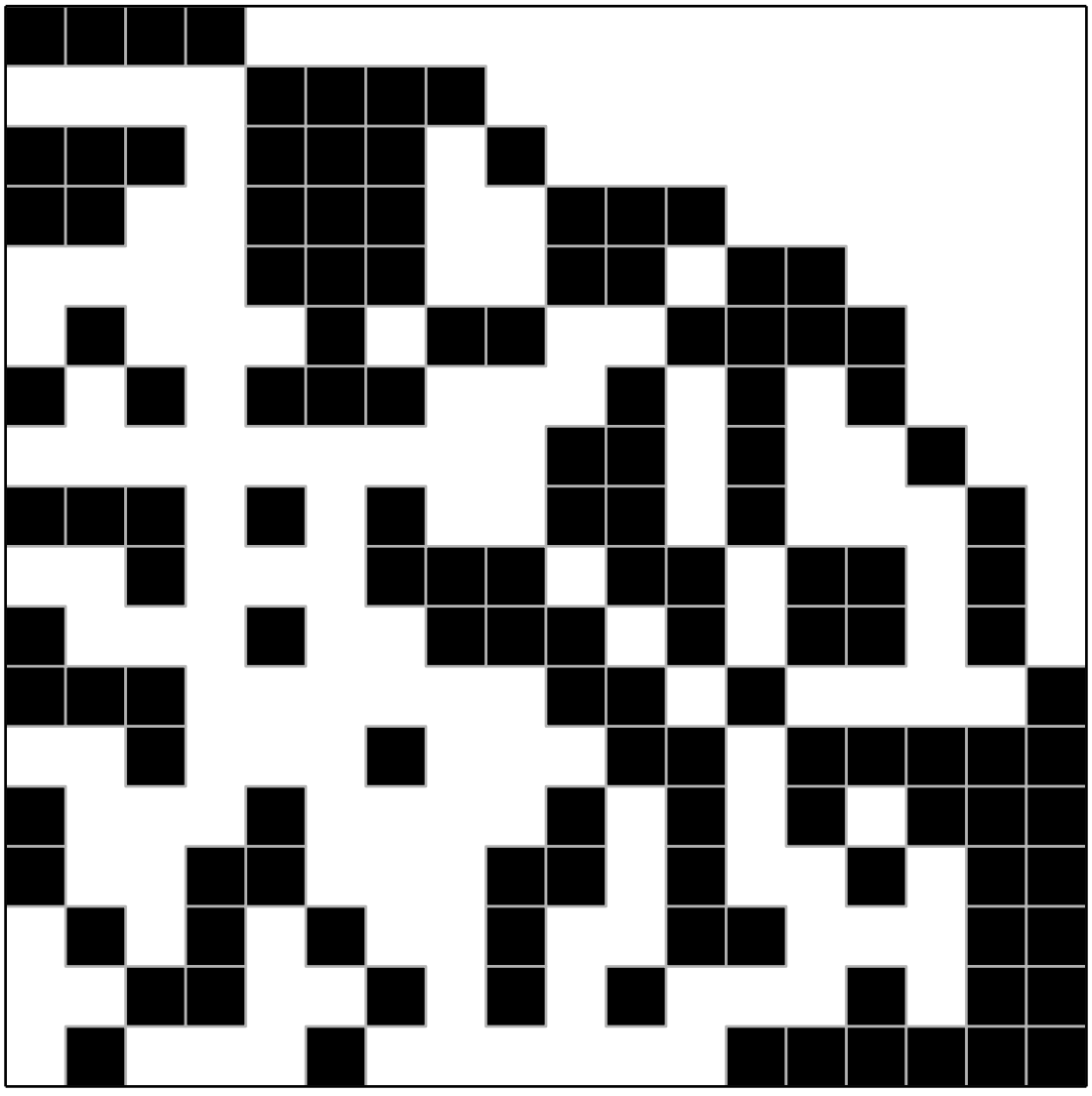
lib3_kinema-03 18x18 (134) con: 9, var: 9

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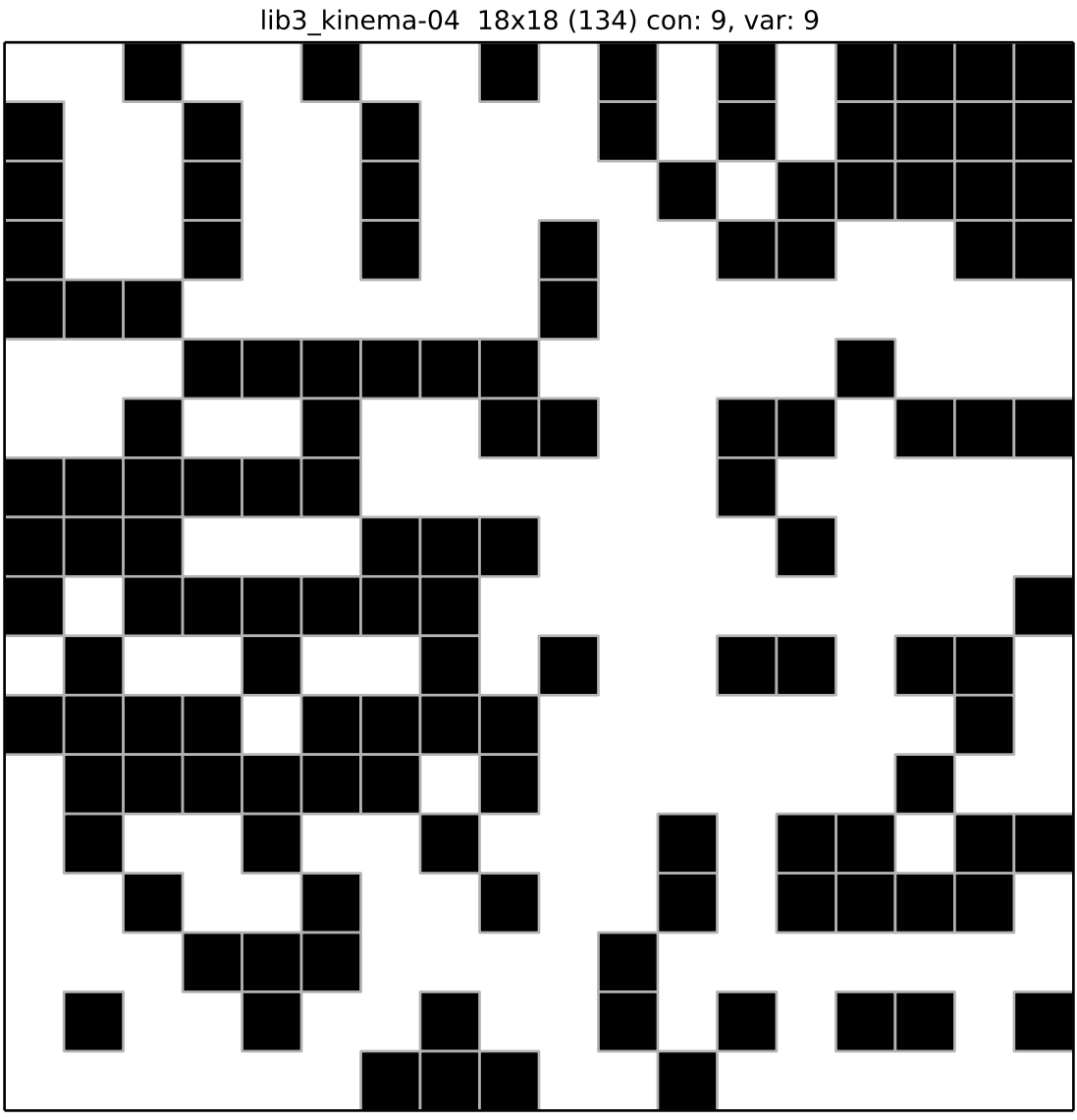
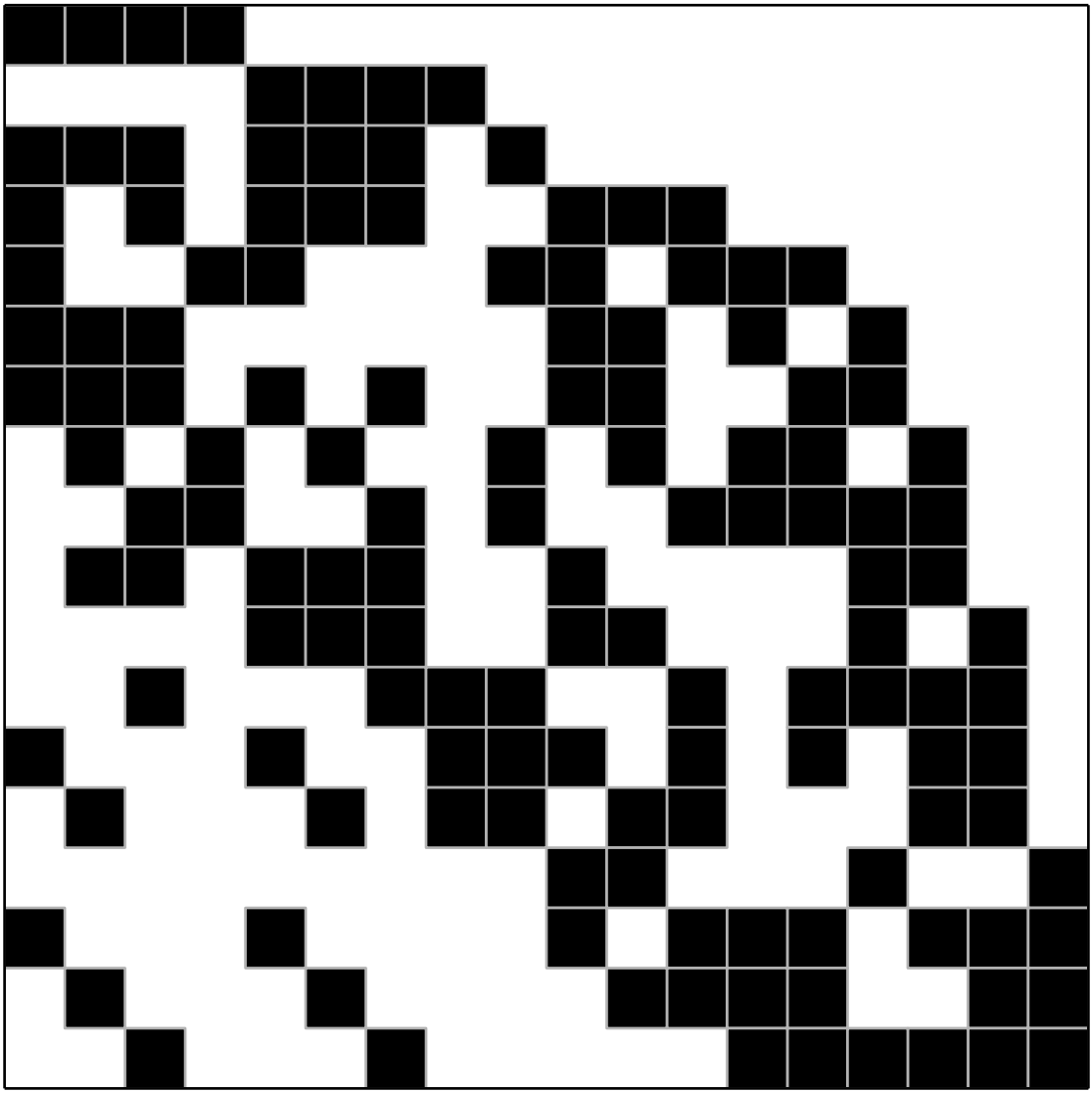
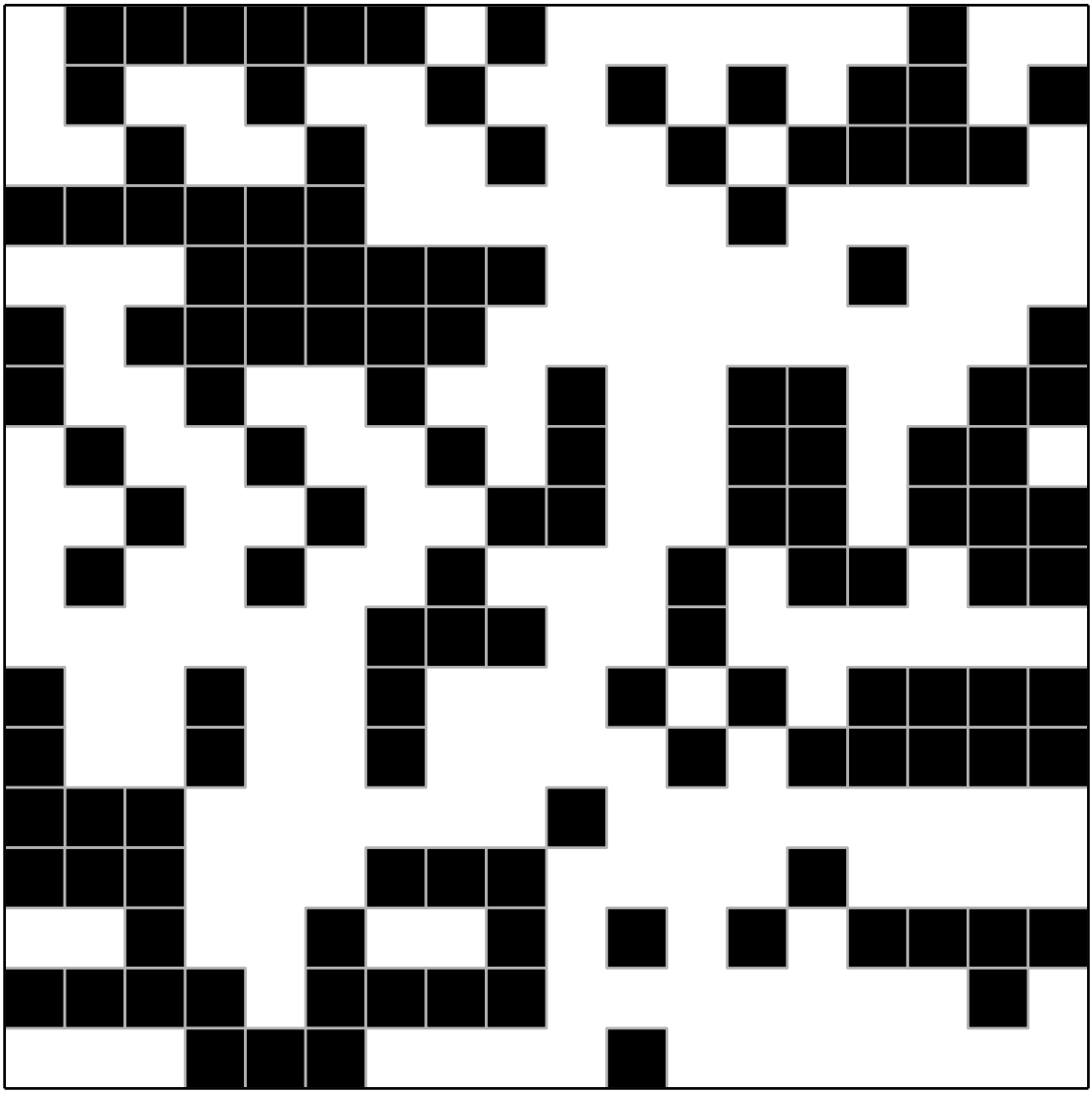
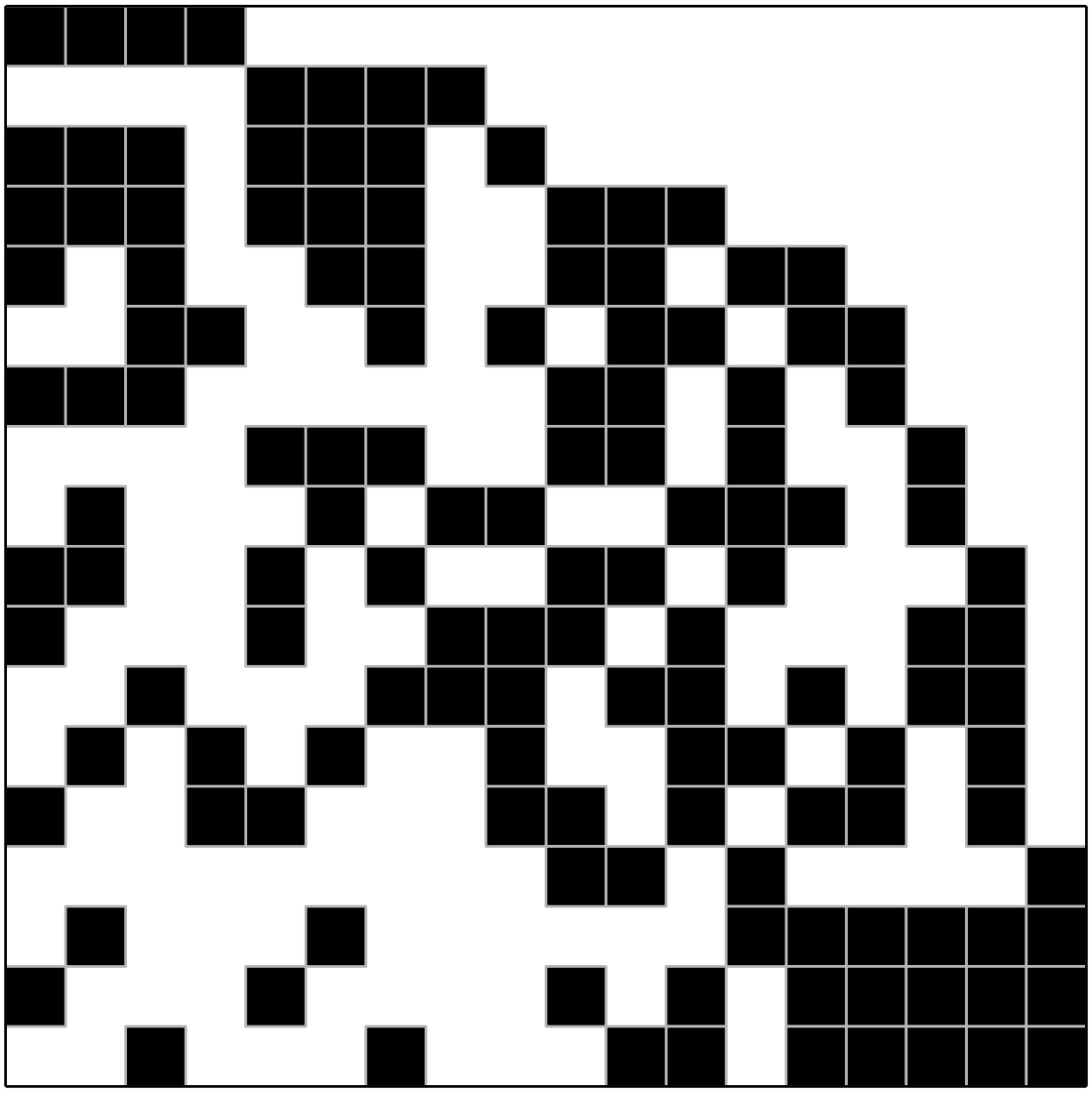

lib3_kinema-04 18x18 (134) con: 9, var: 9

lib3_kinema-04, cost: 9, diff: 9, explored: 43, time: 0.01s

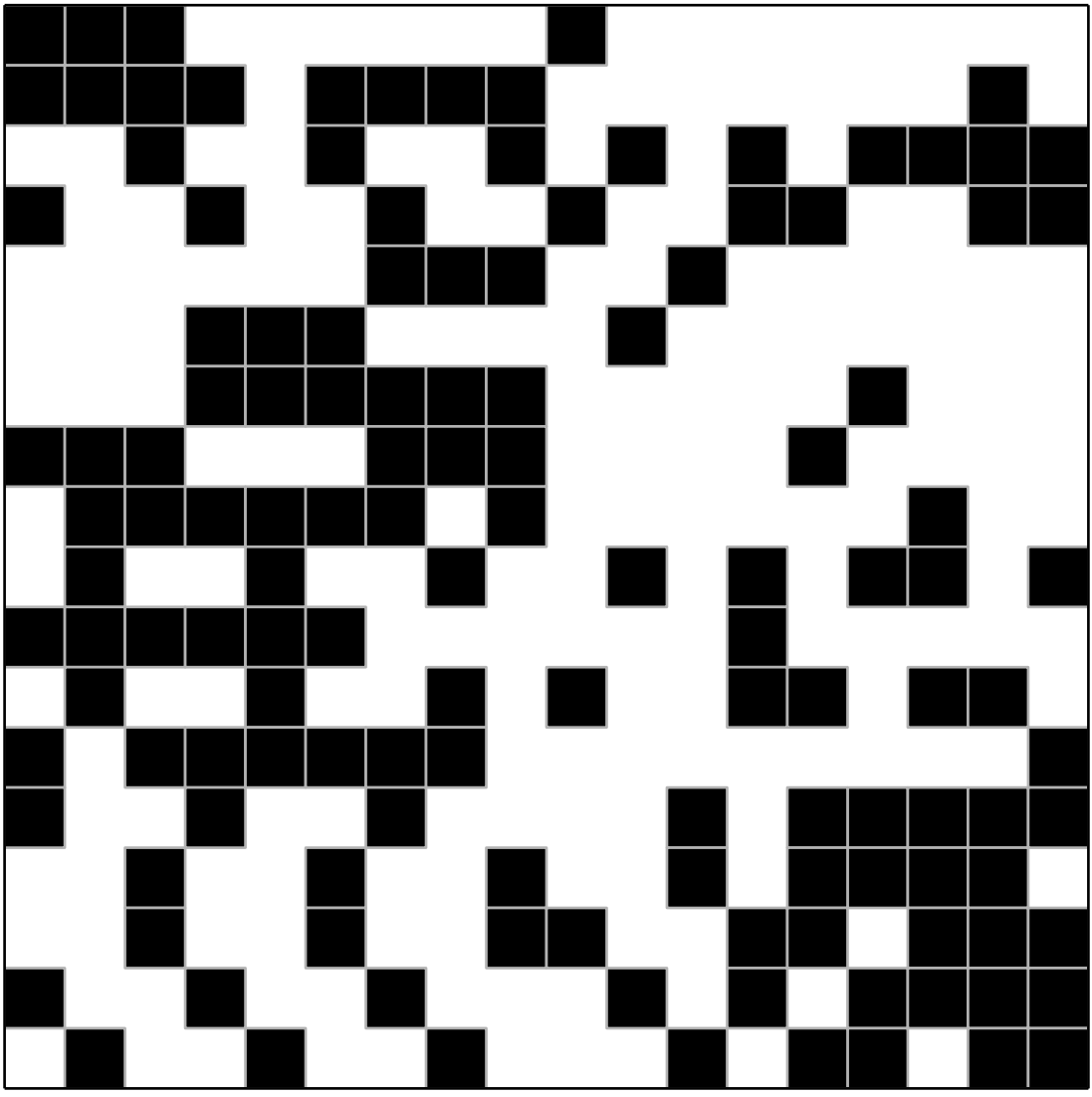


lib3_kinema-05 18x18 (134) con: 9, var: 9




lib3_kinema-05, cost: 9, diff: 9, explored: 41, time: 0.01s

lib3_kinema-06 18x18 (134) con: 9, var: 9



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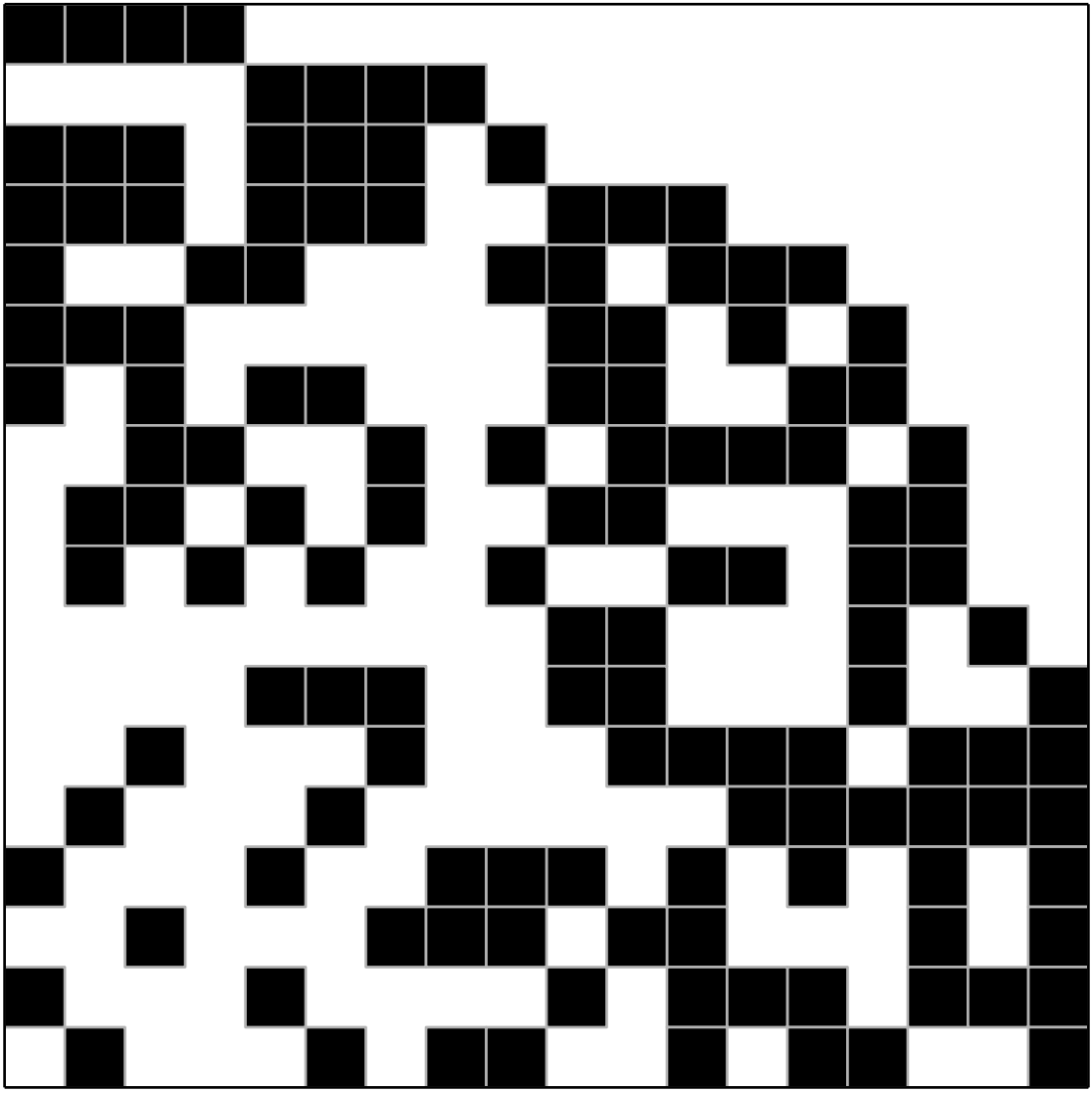
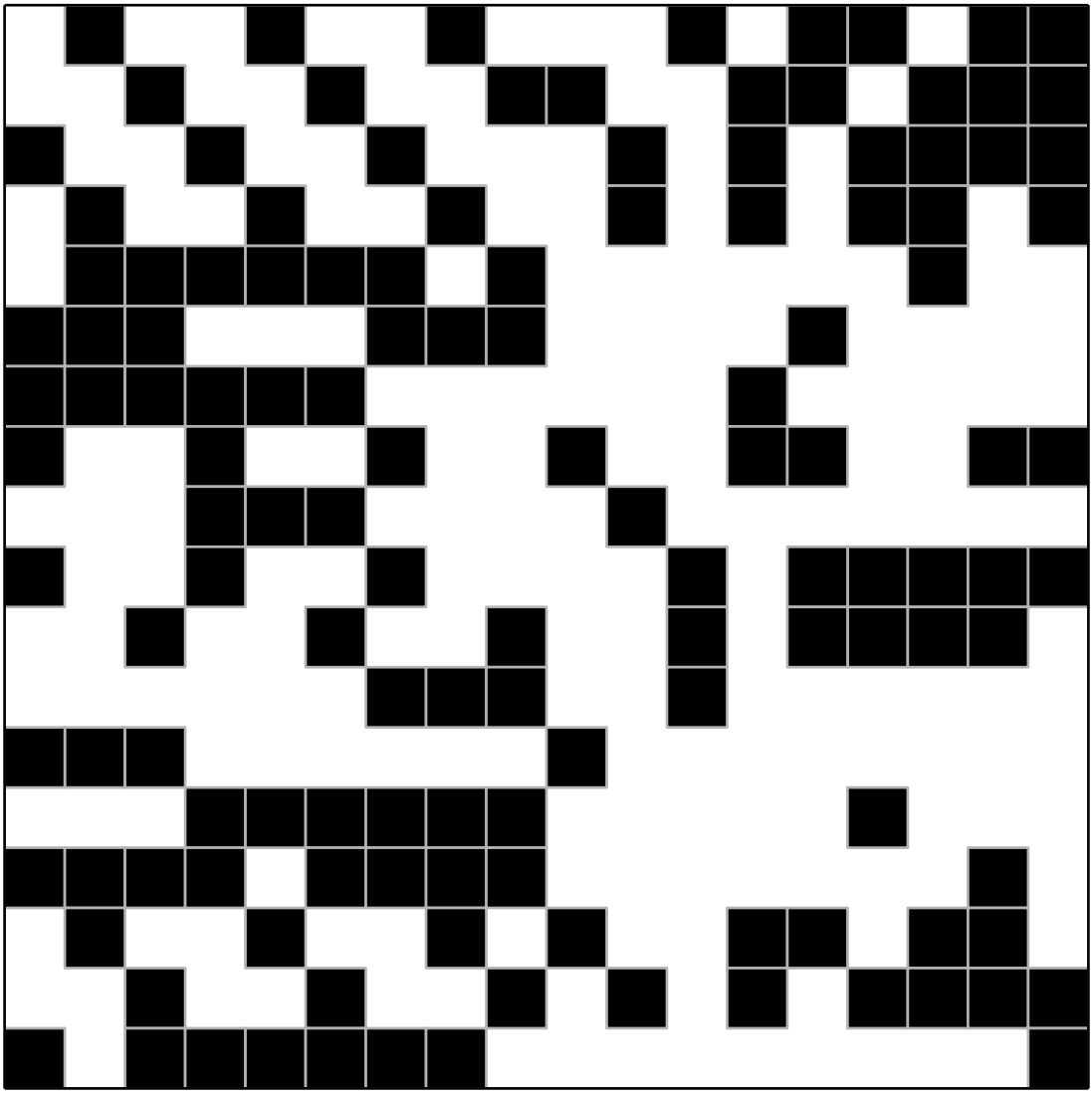
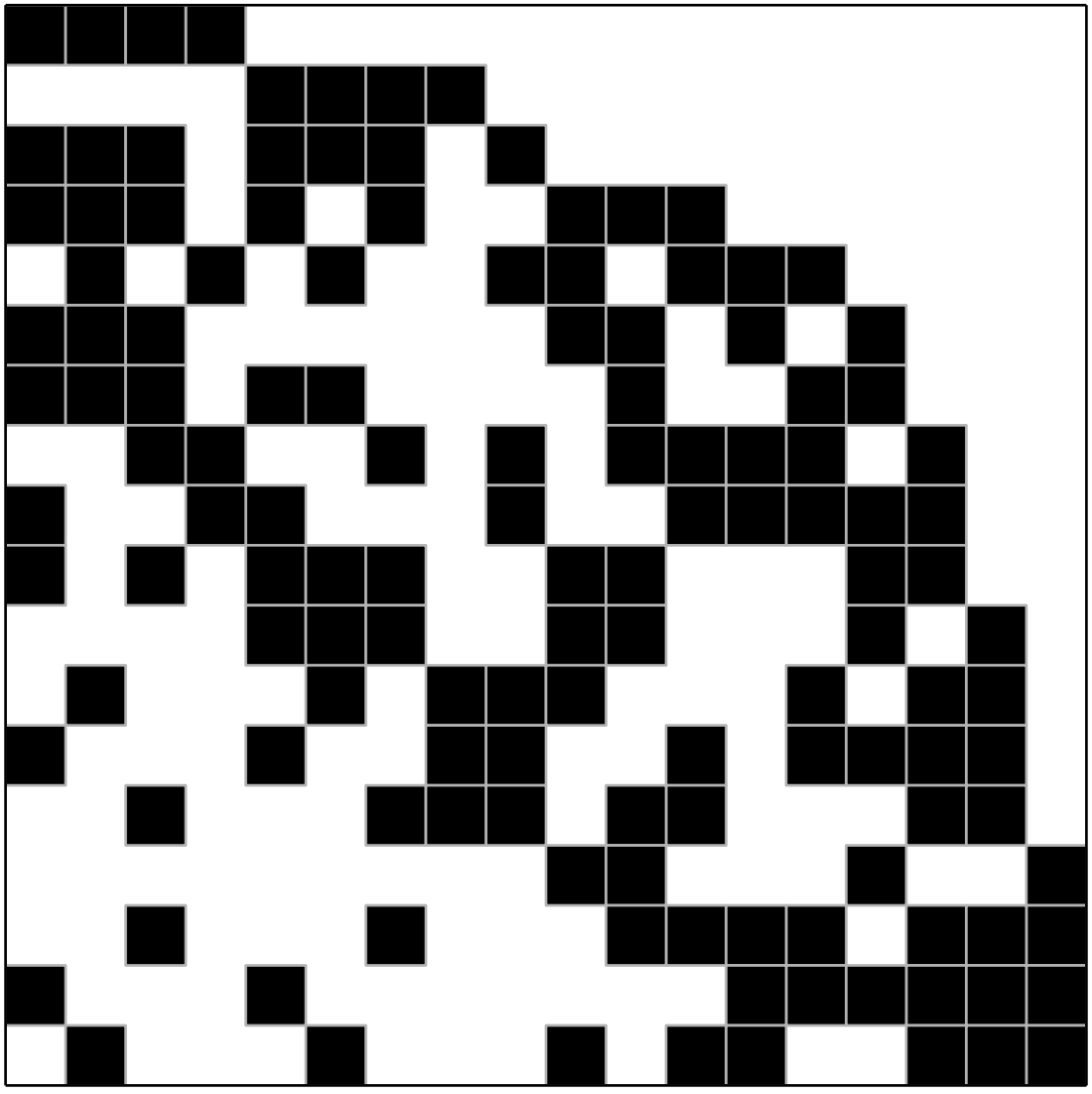
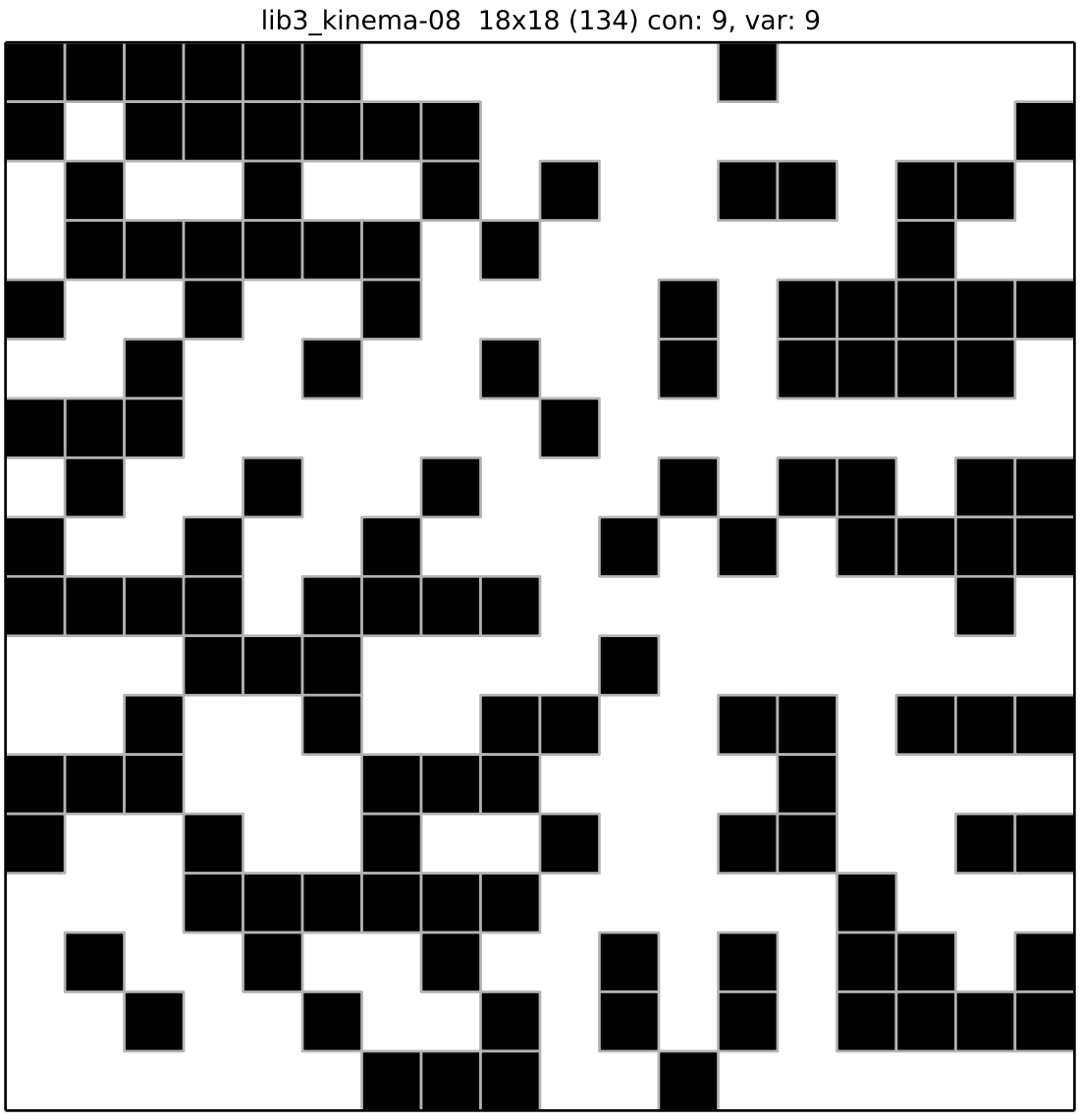


lib3_kinema-07 18x18 (134) con: 9, var: 9

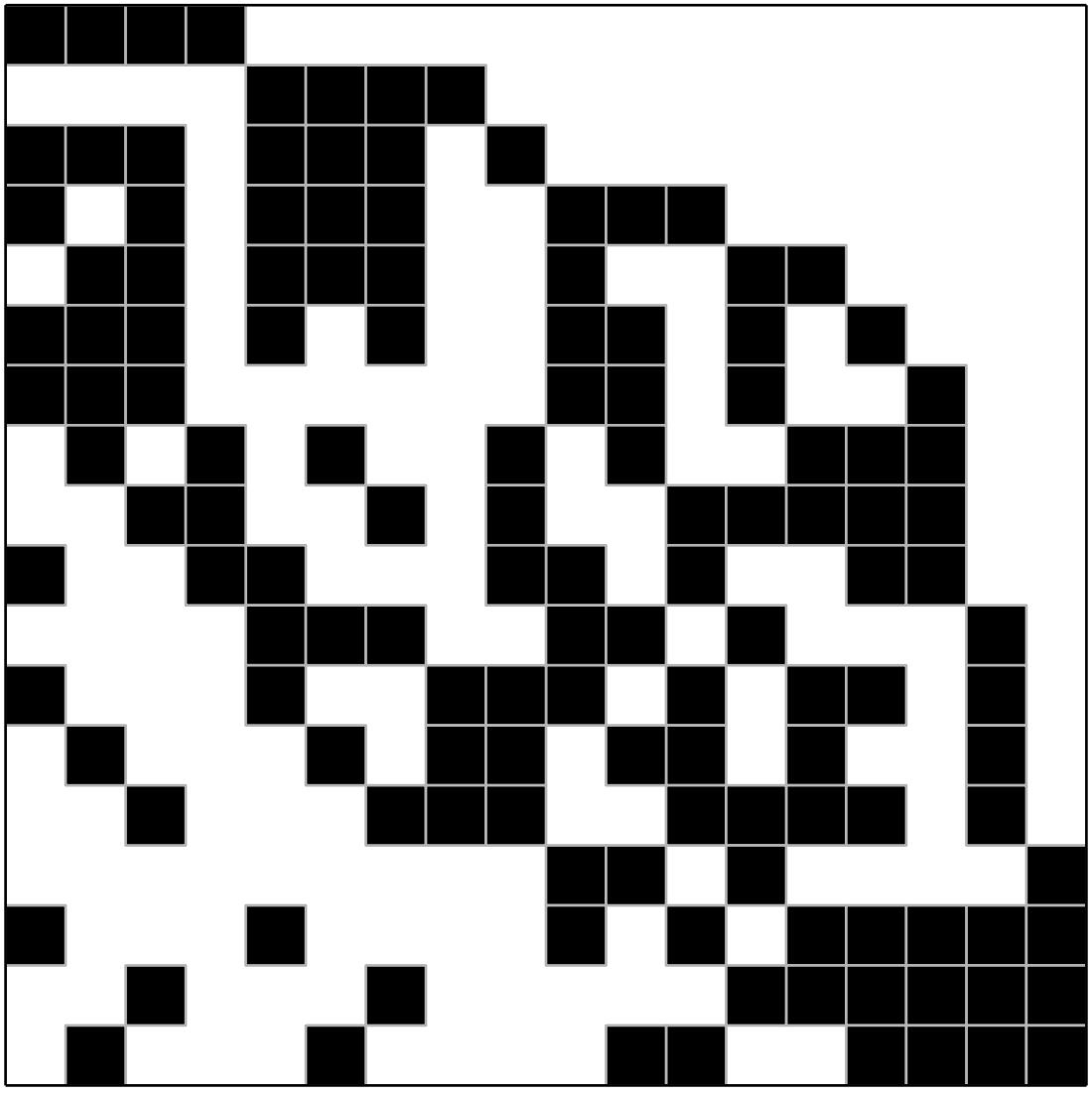


lib3_kinema-07, cost: 9, diff: 9, explored: 45, time: 0.01s

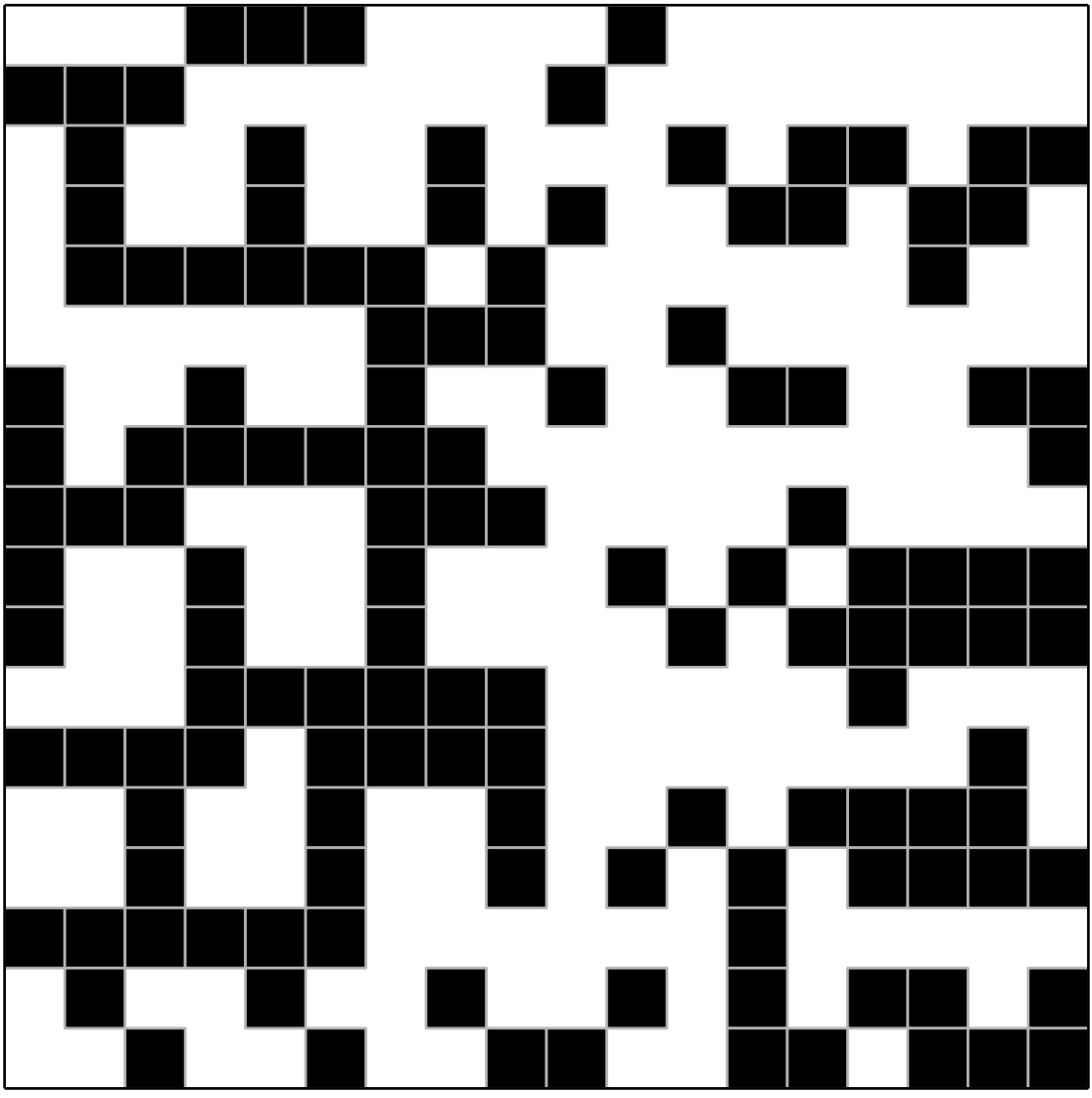



lib3_kinema-08 18x18 (134) con: 9, var: 9

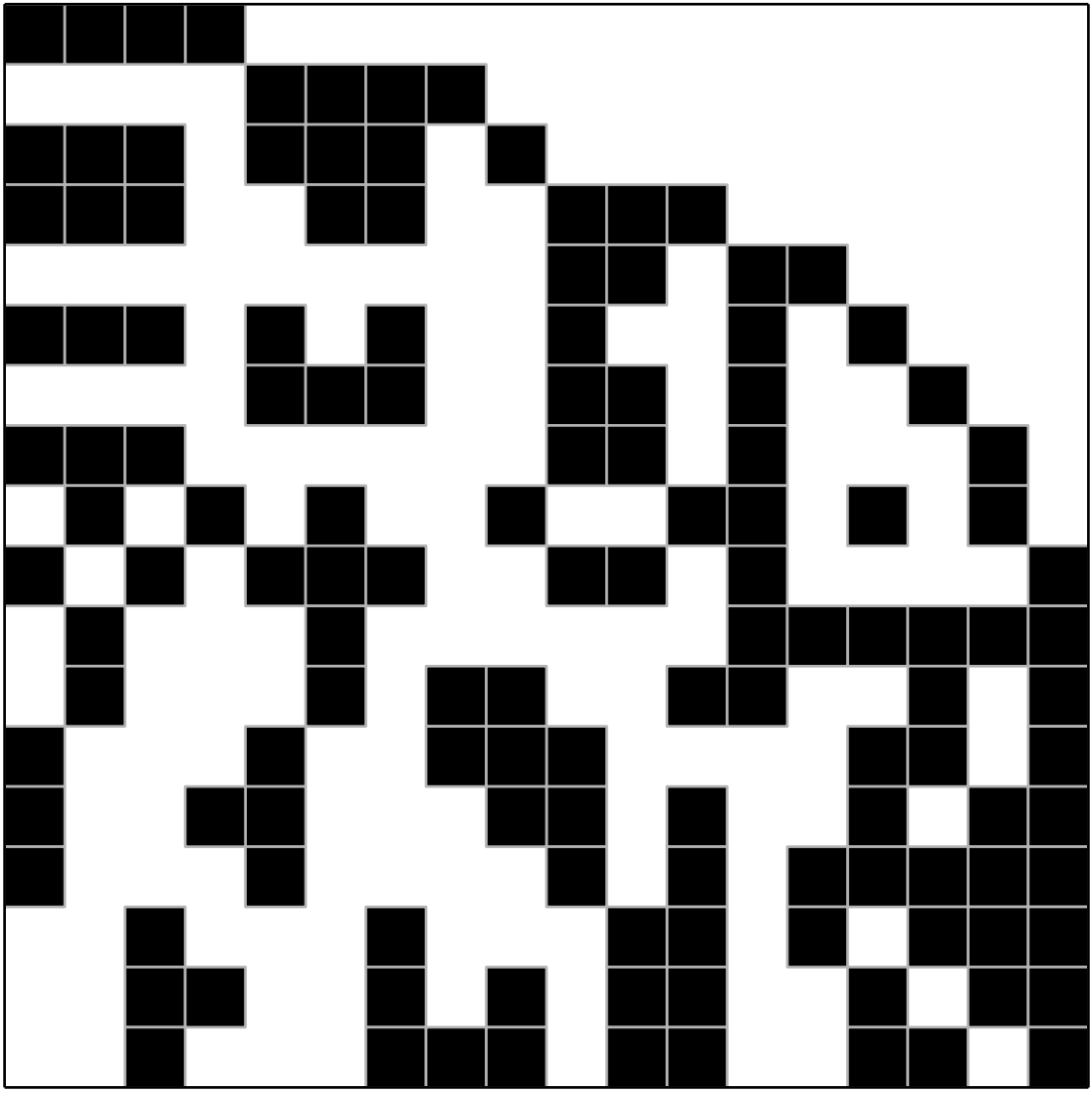
lib3_kinema-08, cost: 9, diff: 9, explored: 43, time: 0.01s



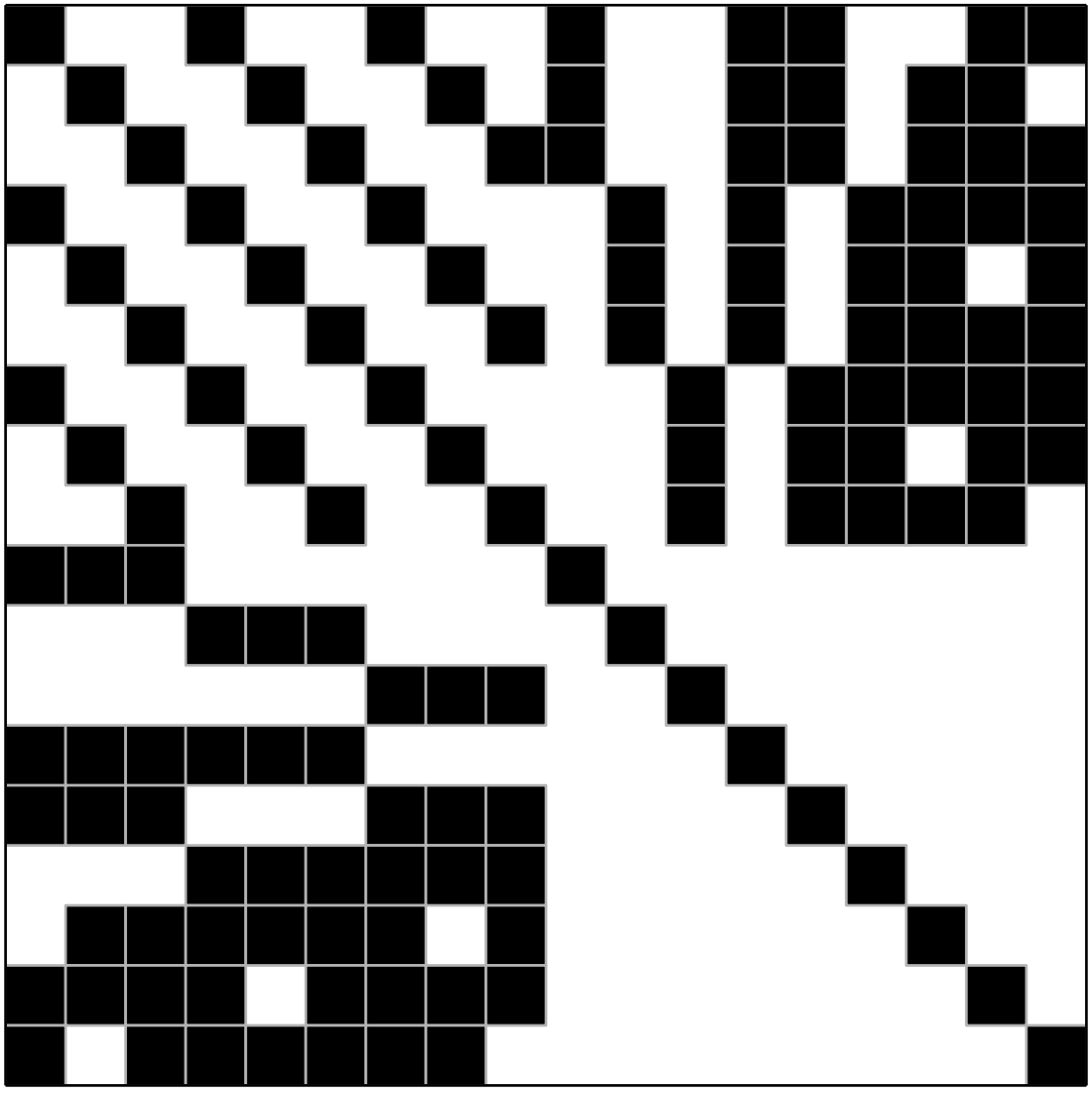
lib3_kinema-09 18x18 (134) con: 9, var: 9

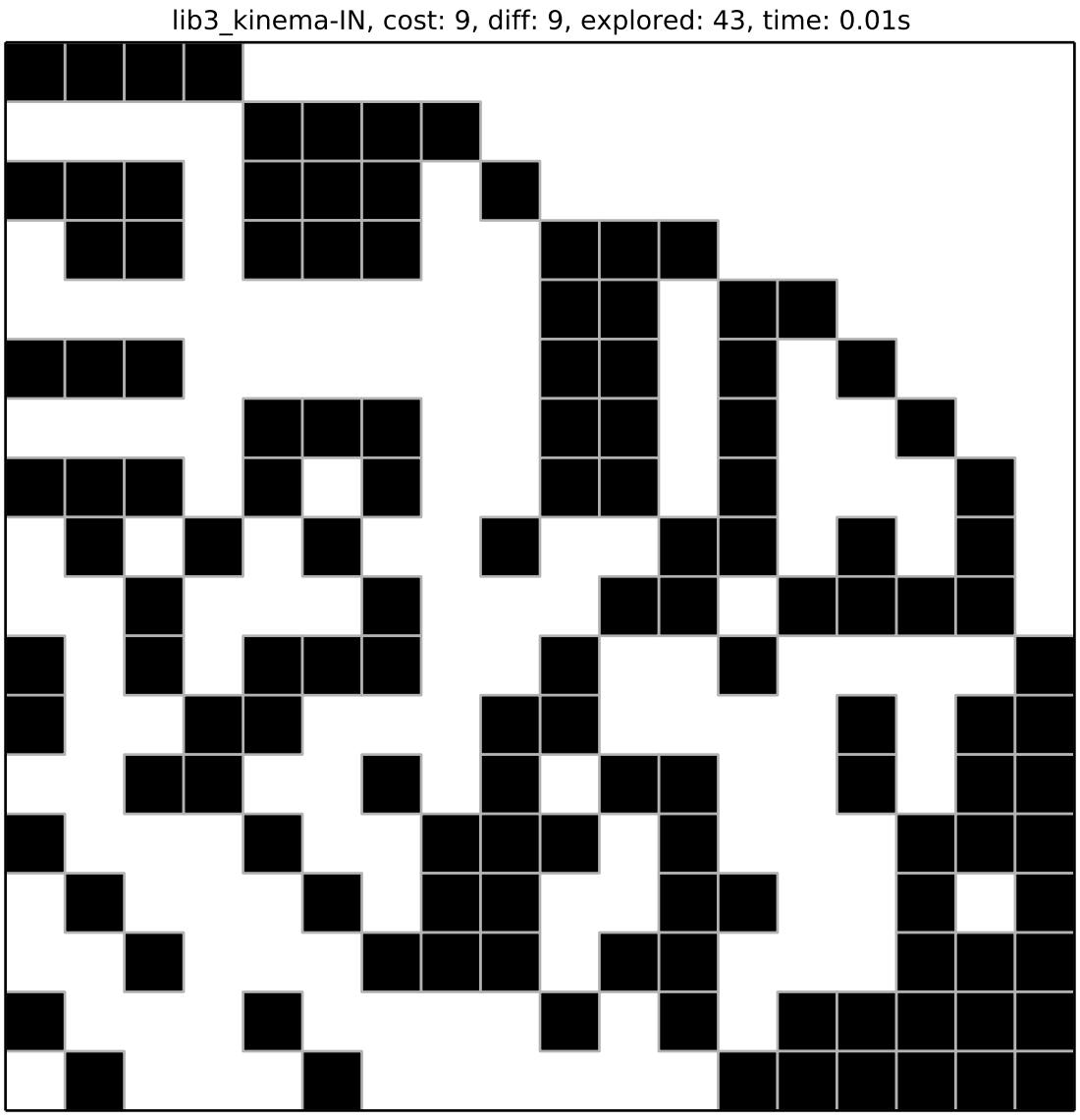


lib3_kinema-09, cost: 9, diff: 9, explored: 45, time: 0.01s



lib3_kinema-IN 18x18 (134) con: 9, var: 9

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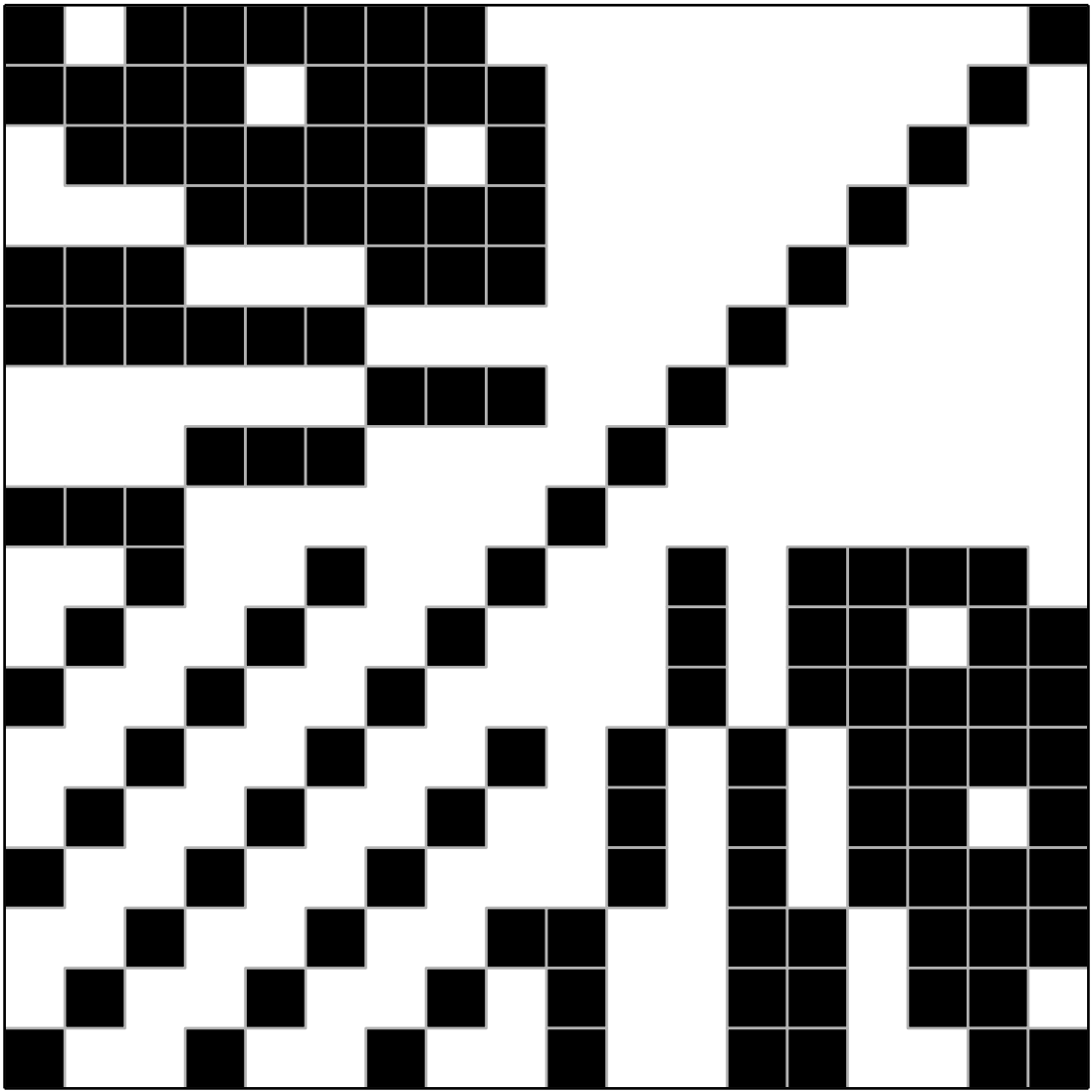
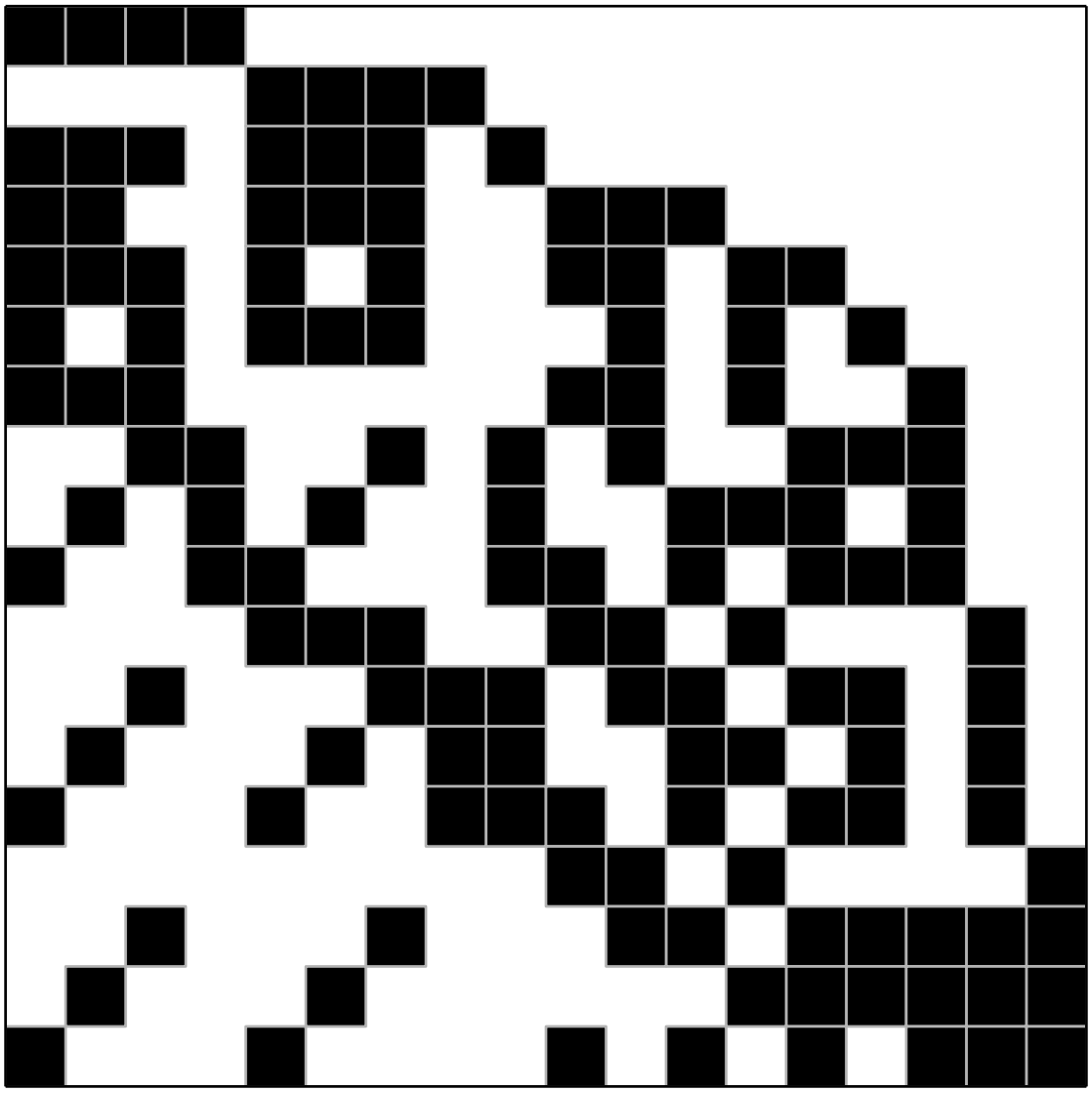
lib3_kinema-RE 18x18 (134) con: 9, var: 9

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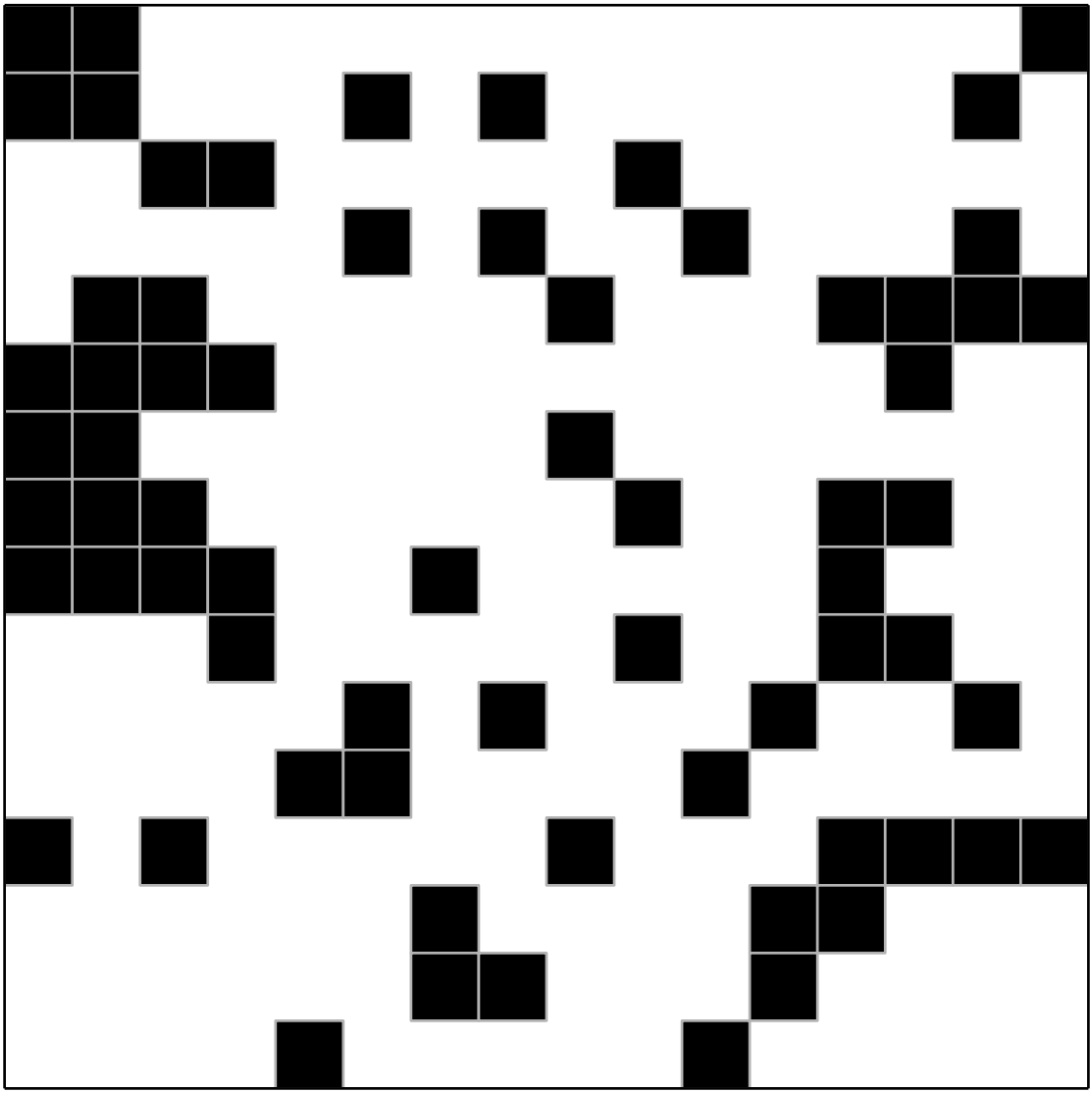
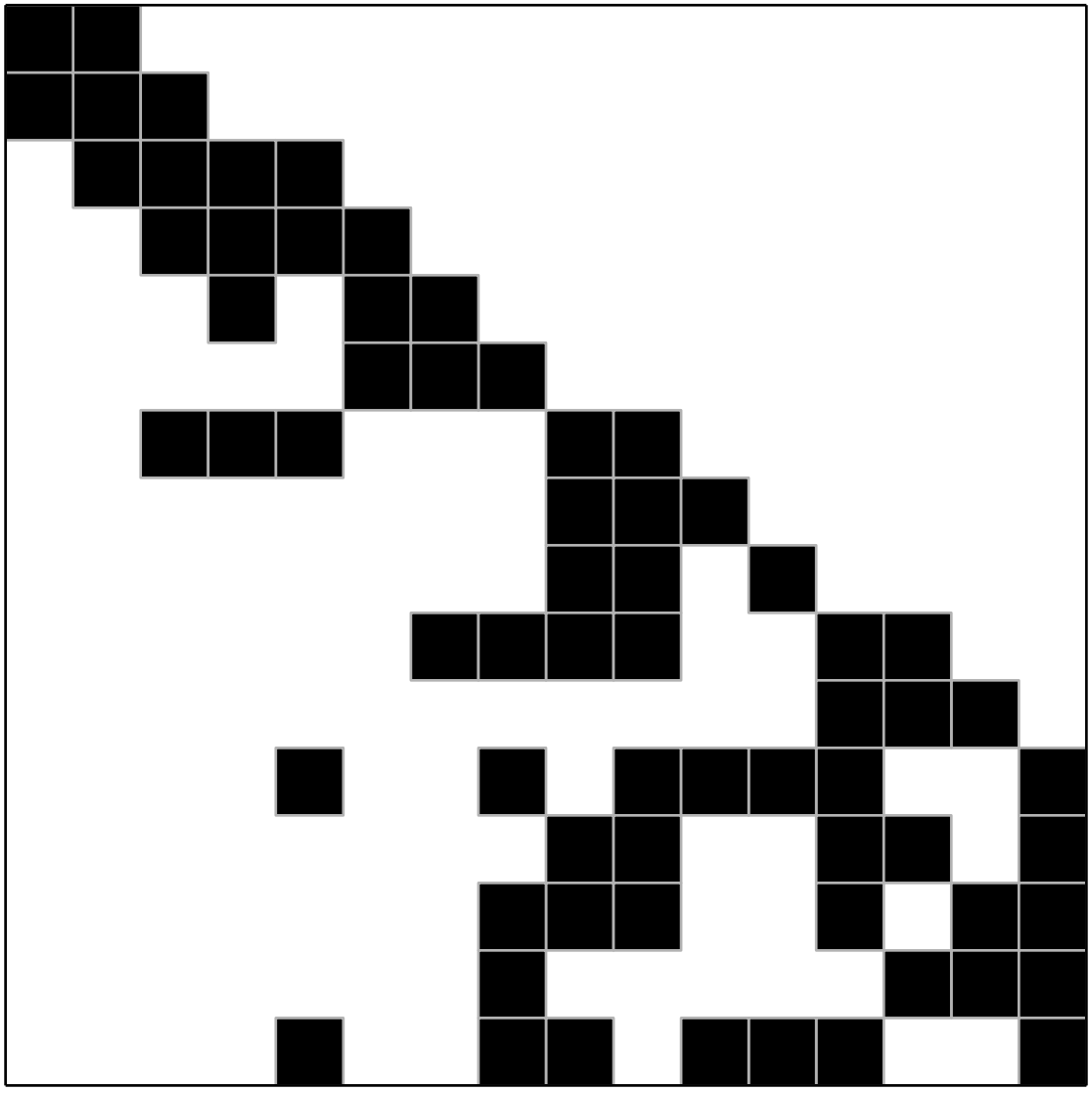
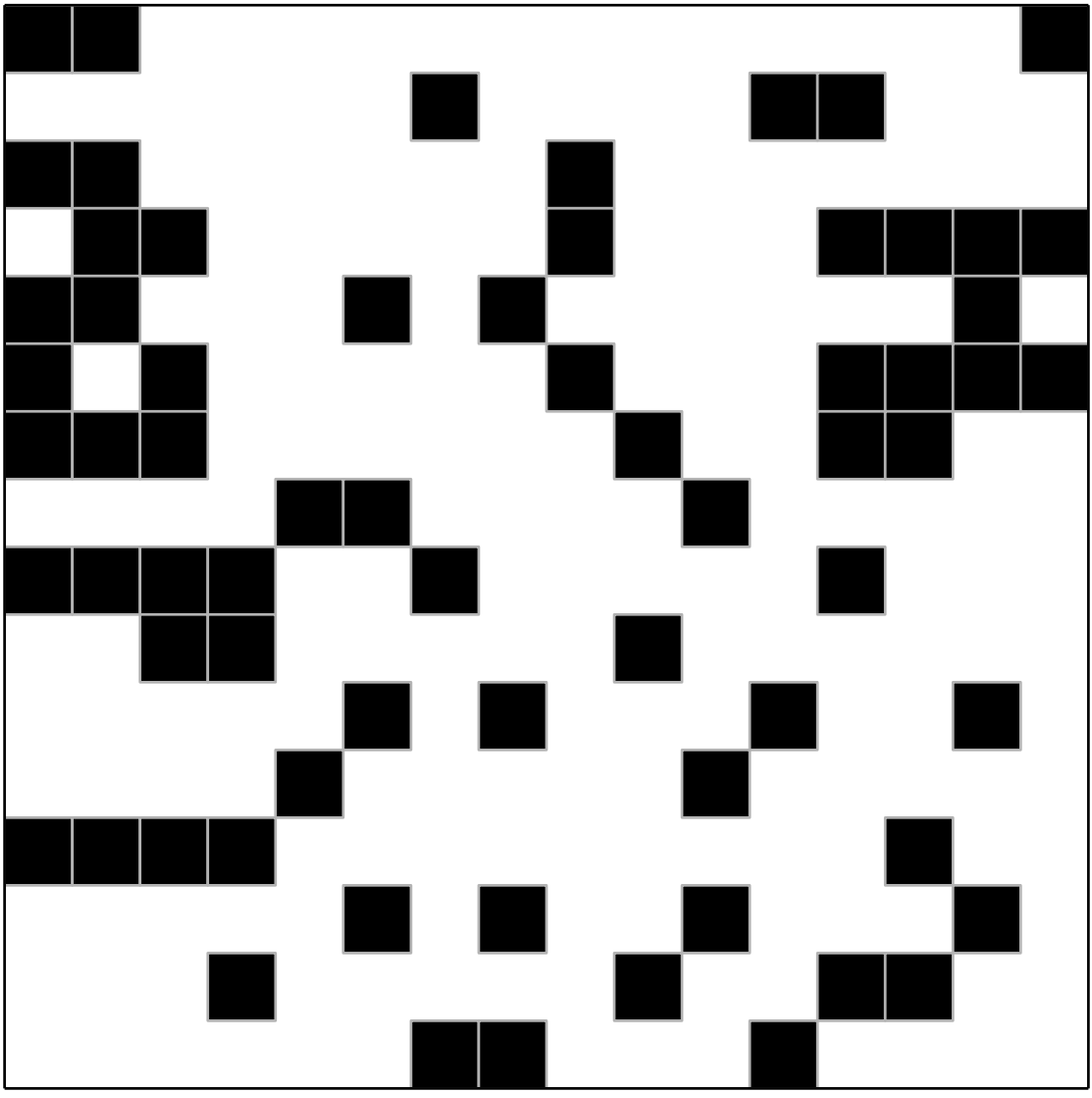
lib3_kink-00 16x16 (68) con: 8, var: 8



lib3_kink-00, cost: 4, diff: 4, explored: 10, time: 0.00s



lib3_kink-01 16x16 (68) con: 8, var: 8



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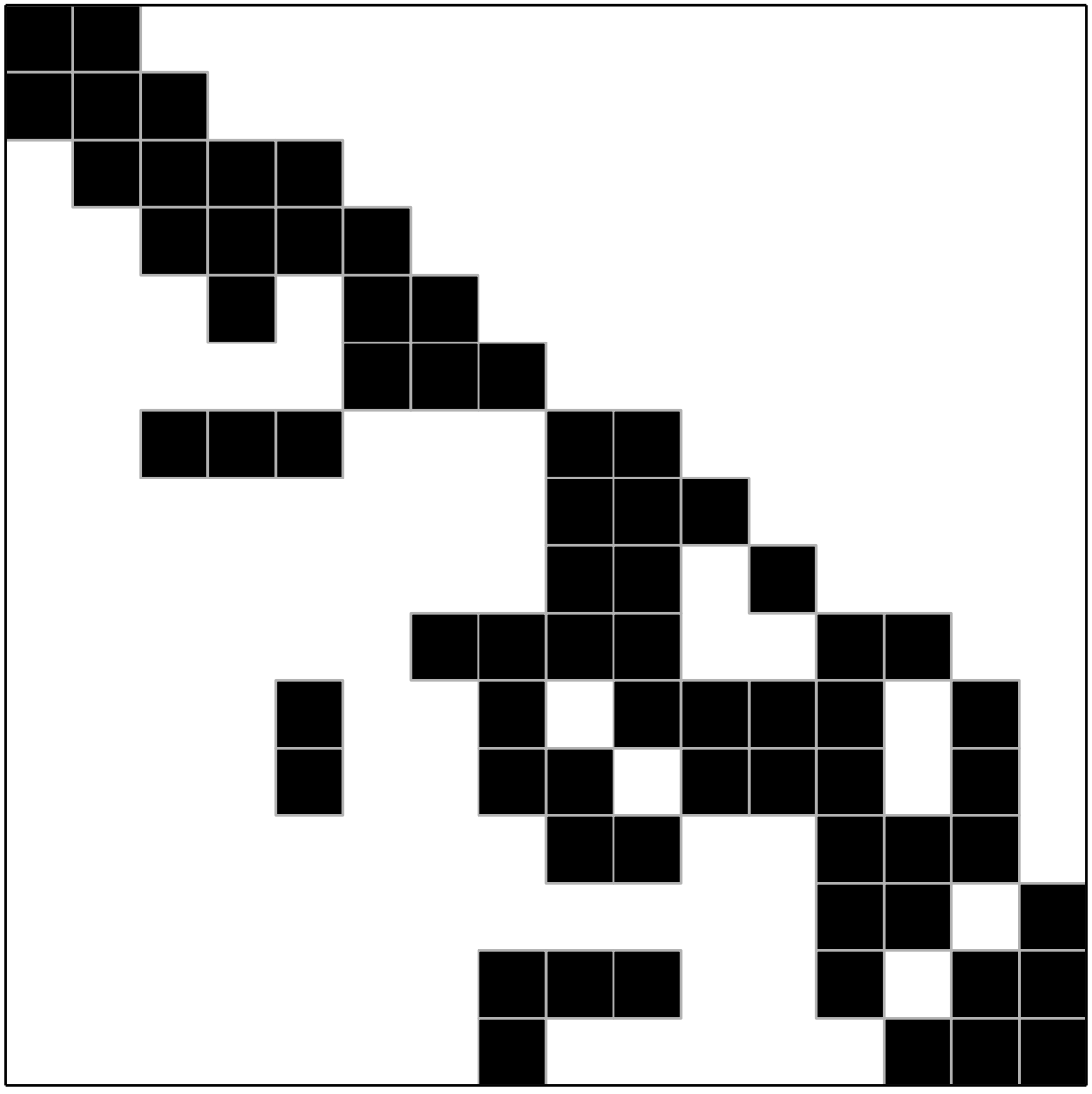
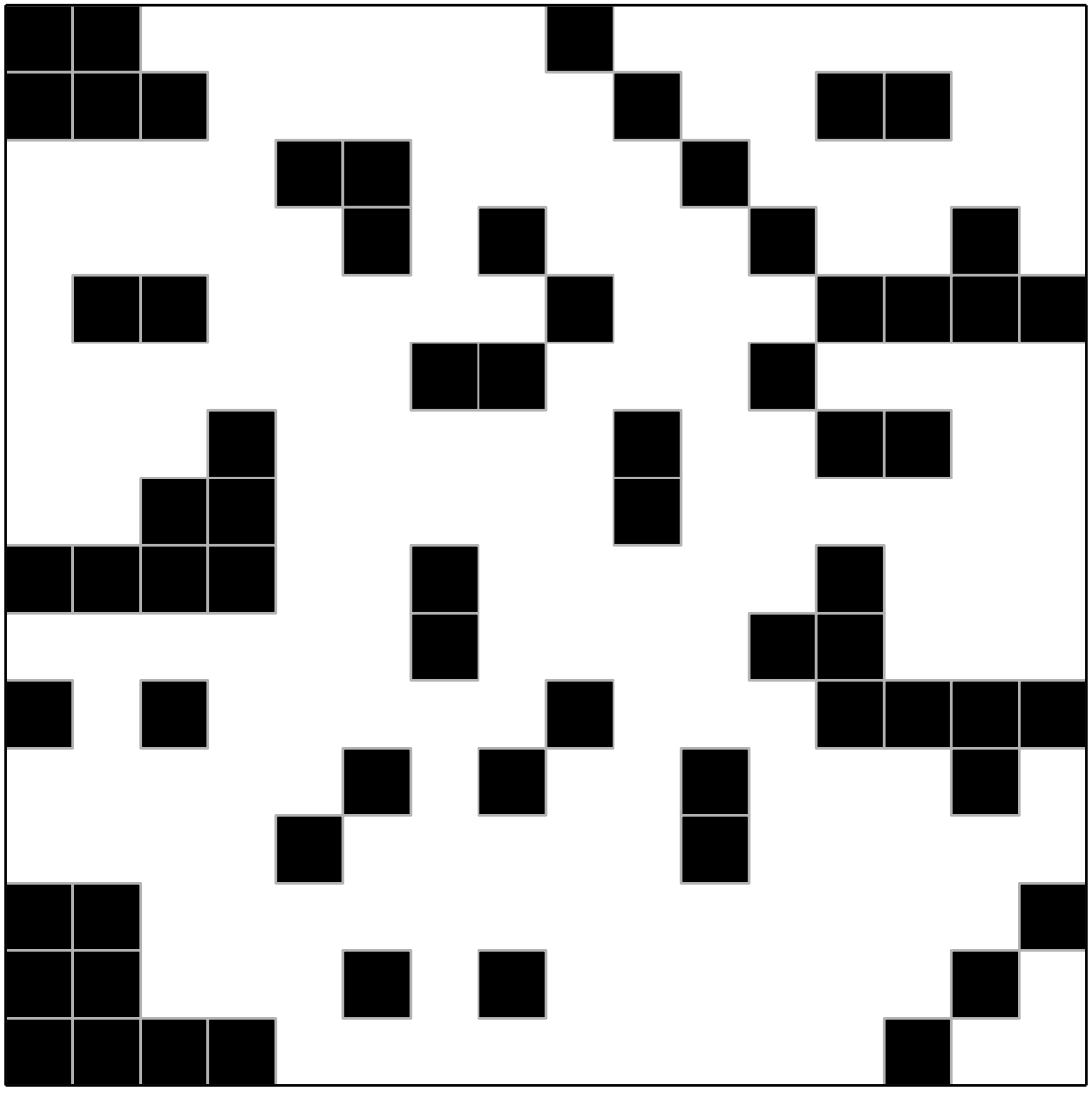
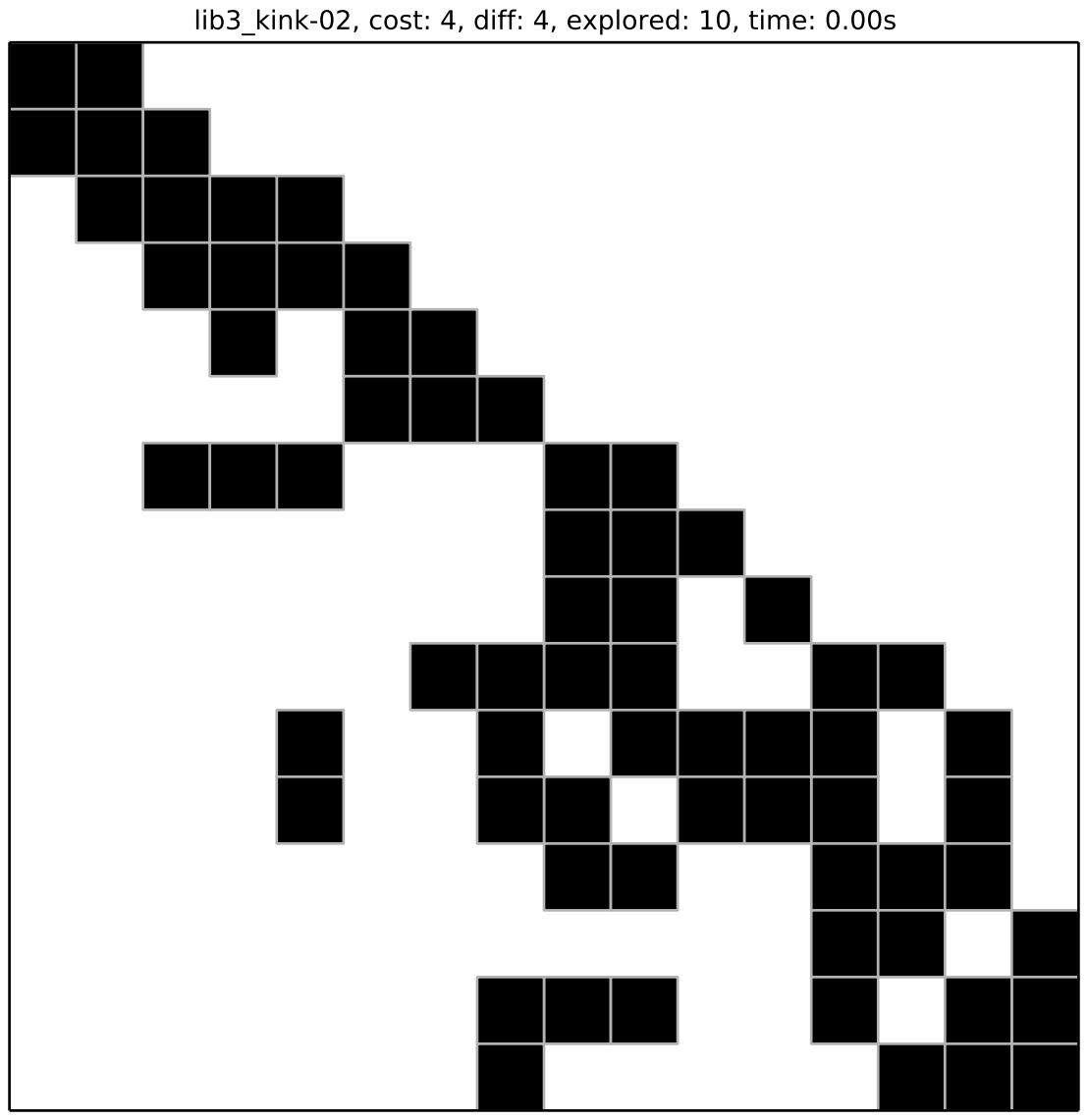


lib3_kink-02 16x16 (68) con: 8, var: 8

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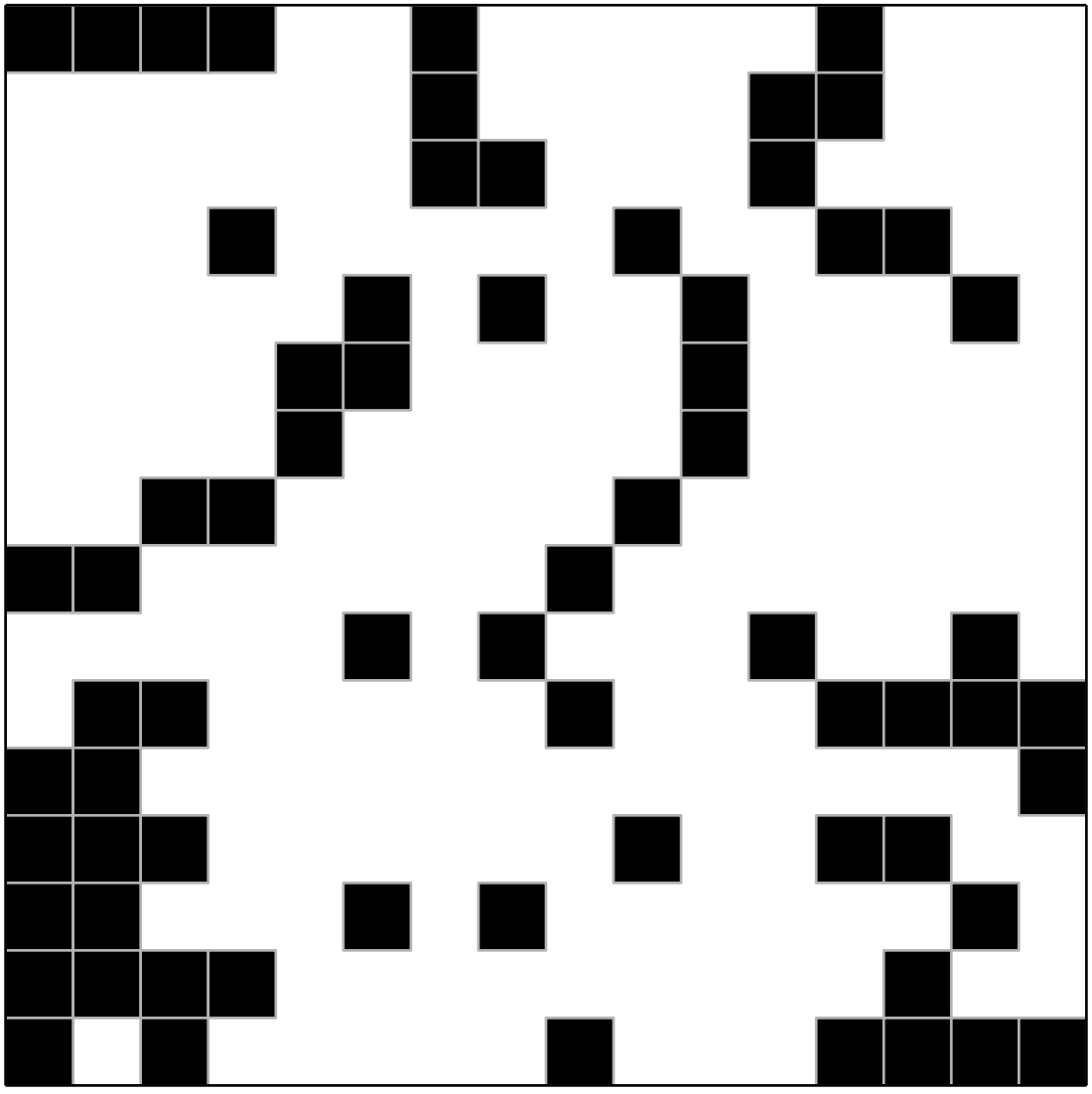
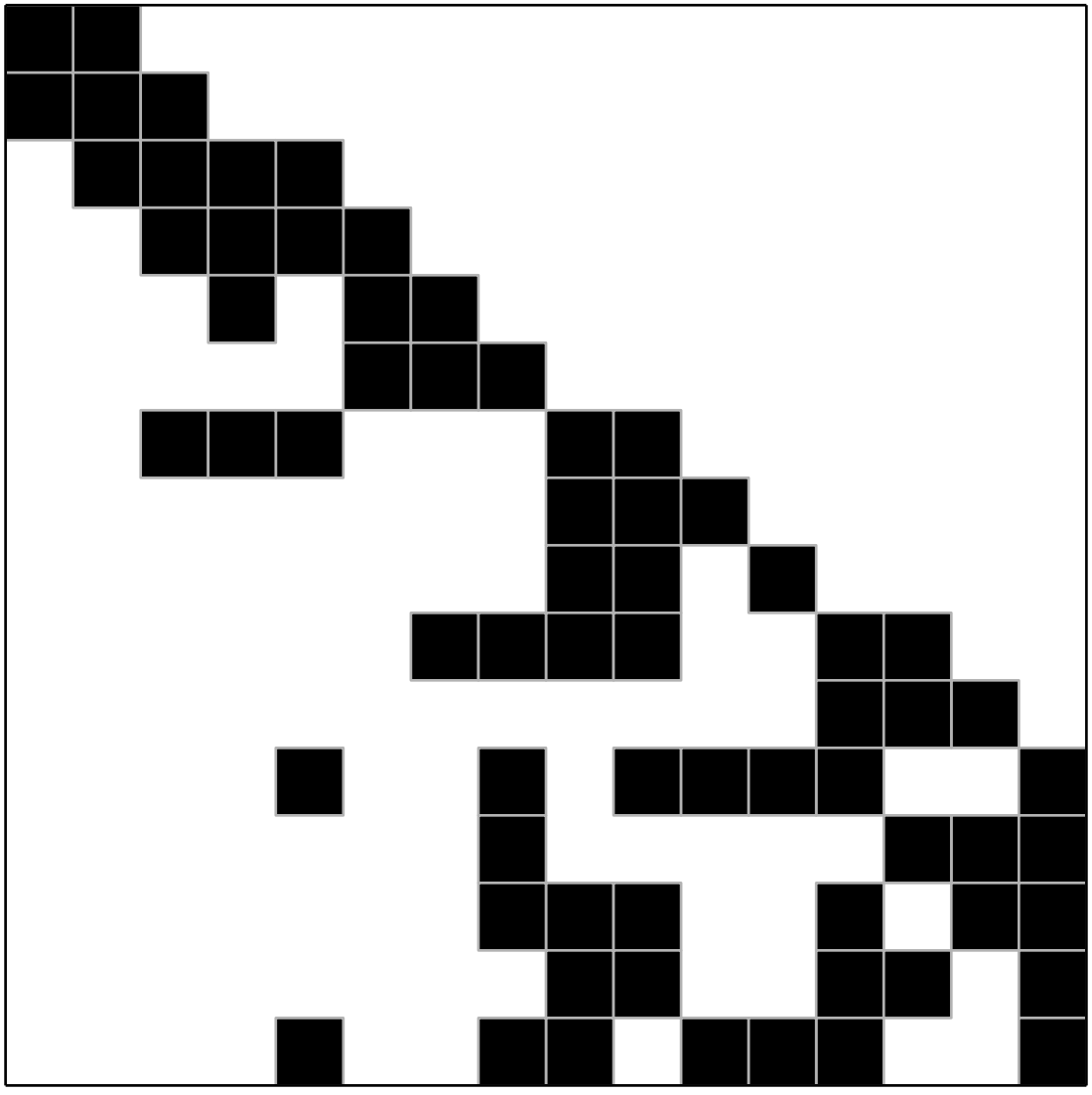
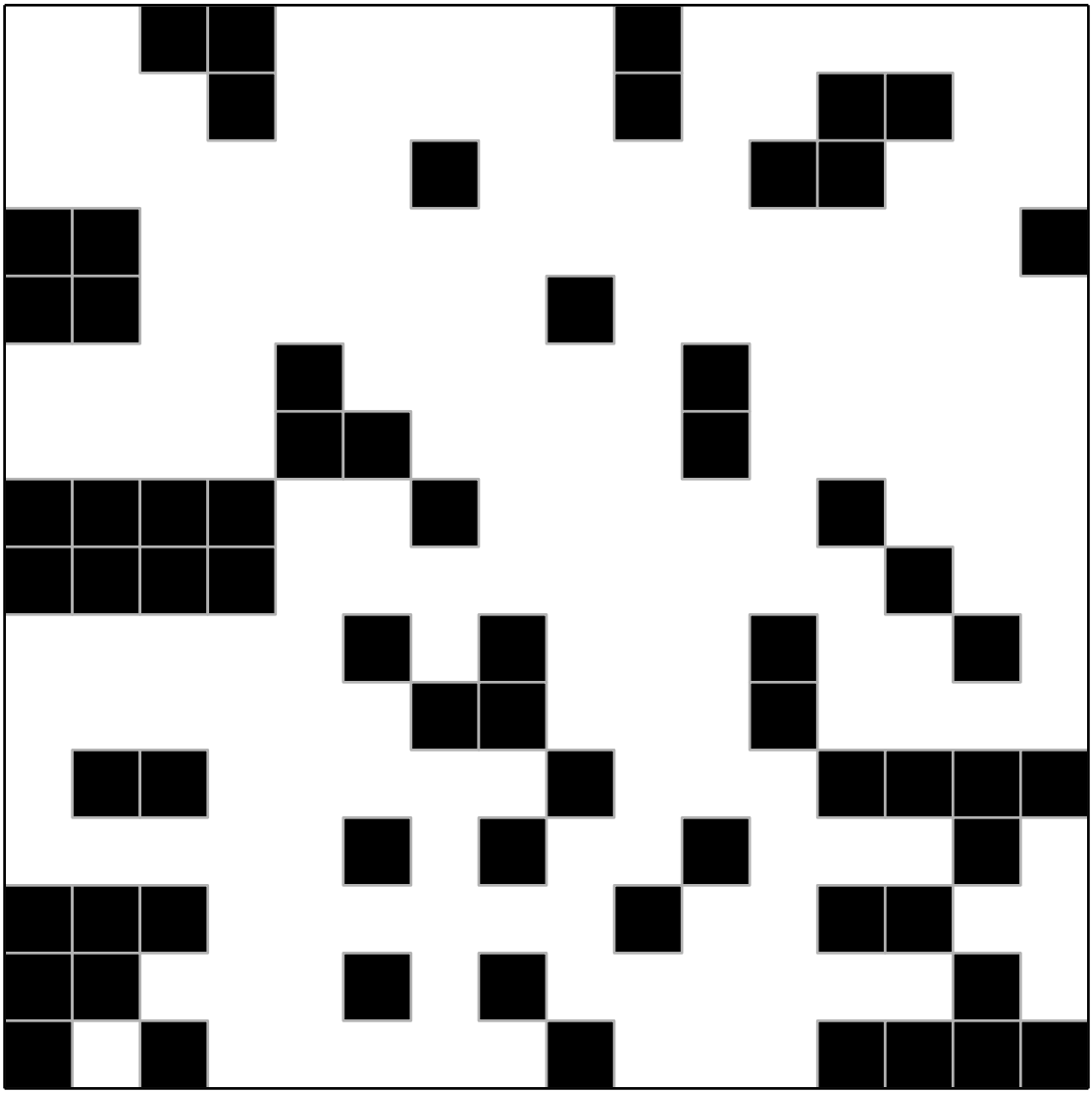
lib3_kink-03 16x16 (68) con: 8, var: 8

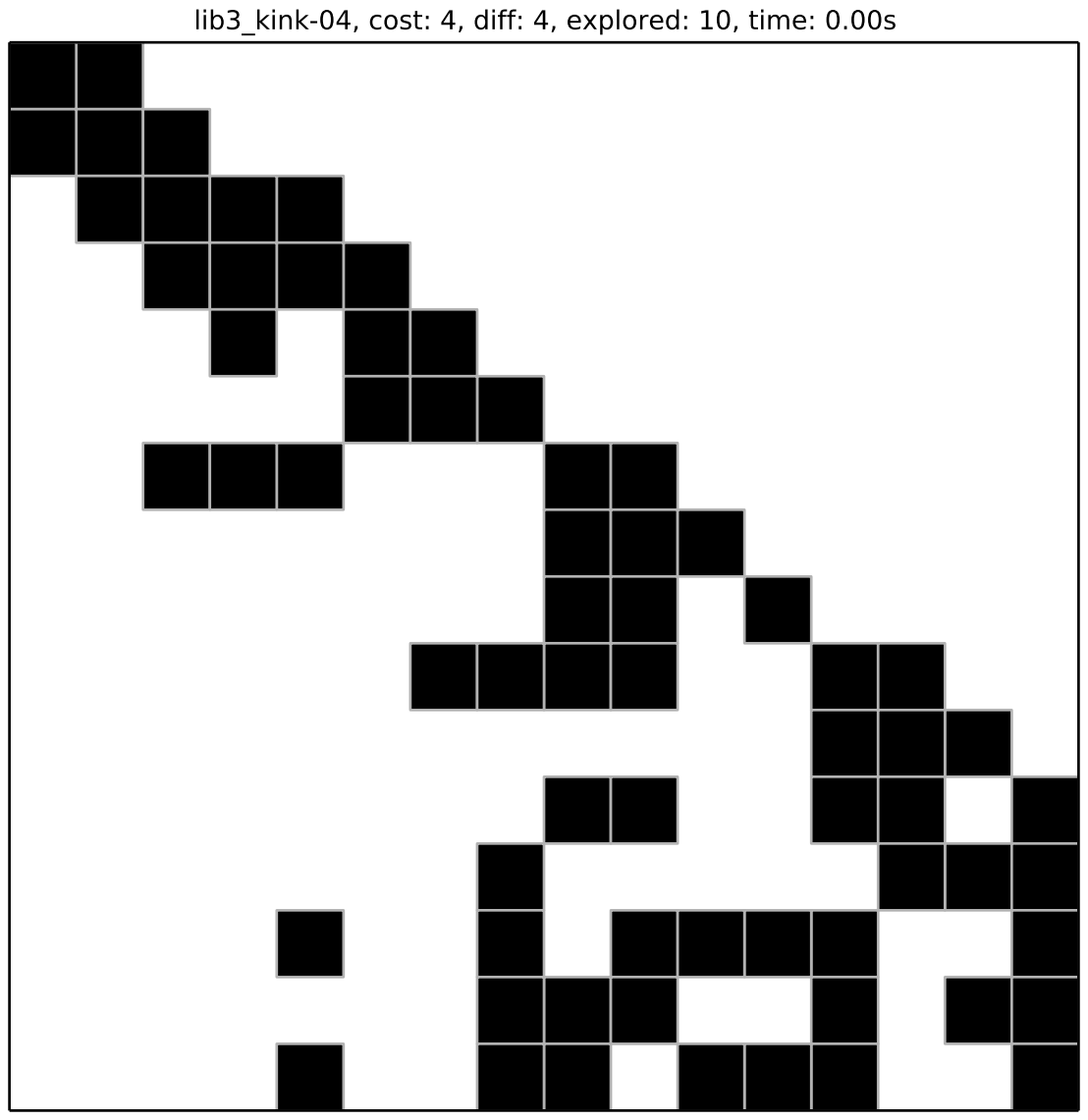


lib3_kink-03, cost: 4, diff: 4, explored: 10, time: 0.00s



lib3_kink-04 16x16 (68) con: 8, var: 8

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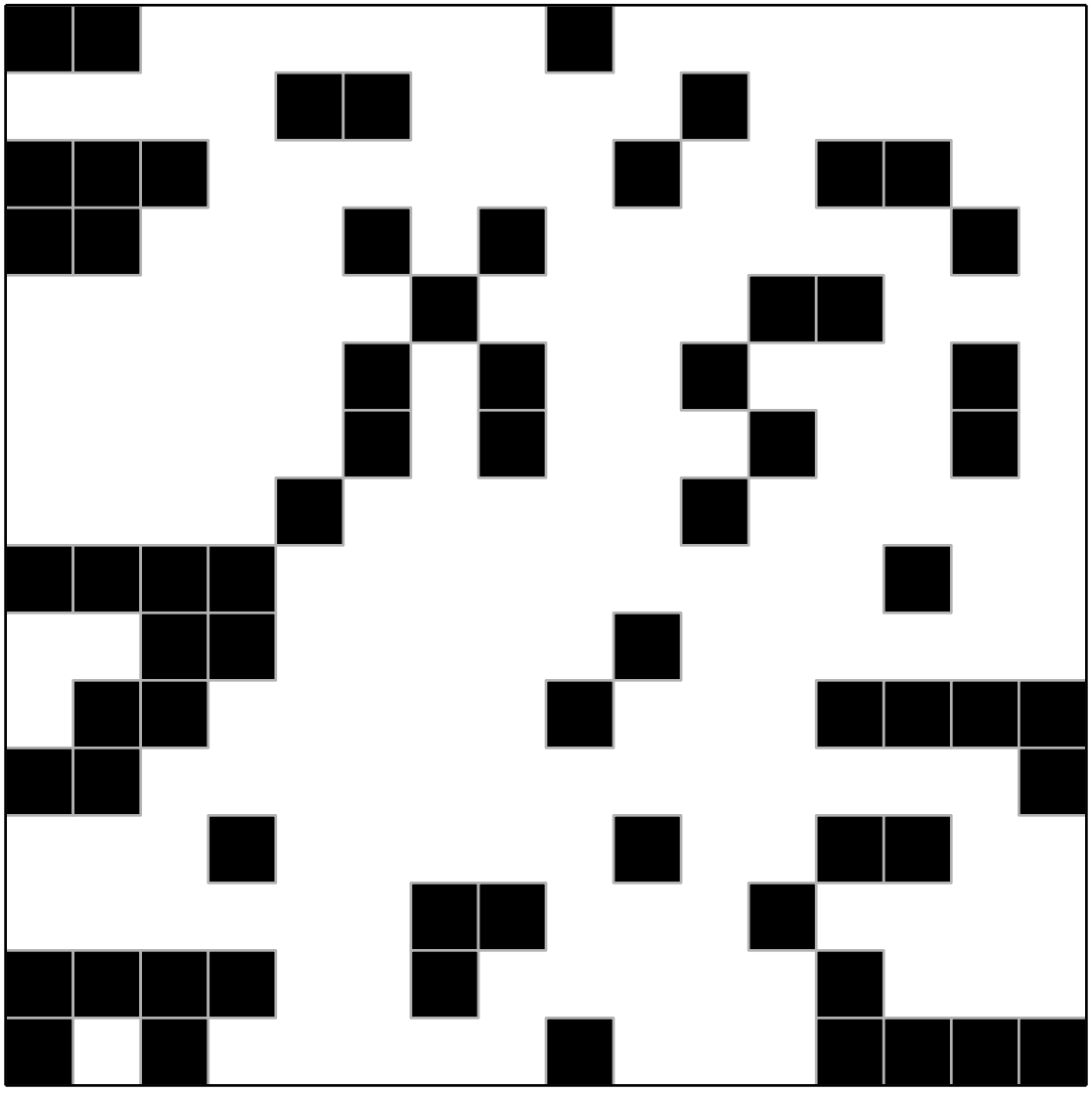
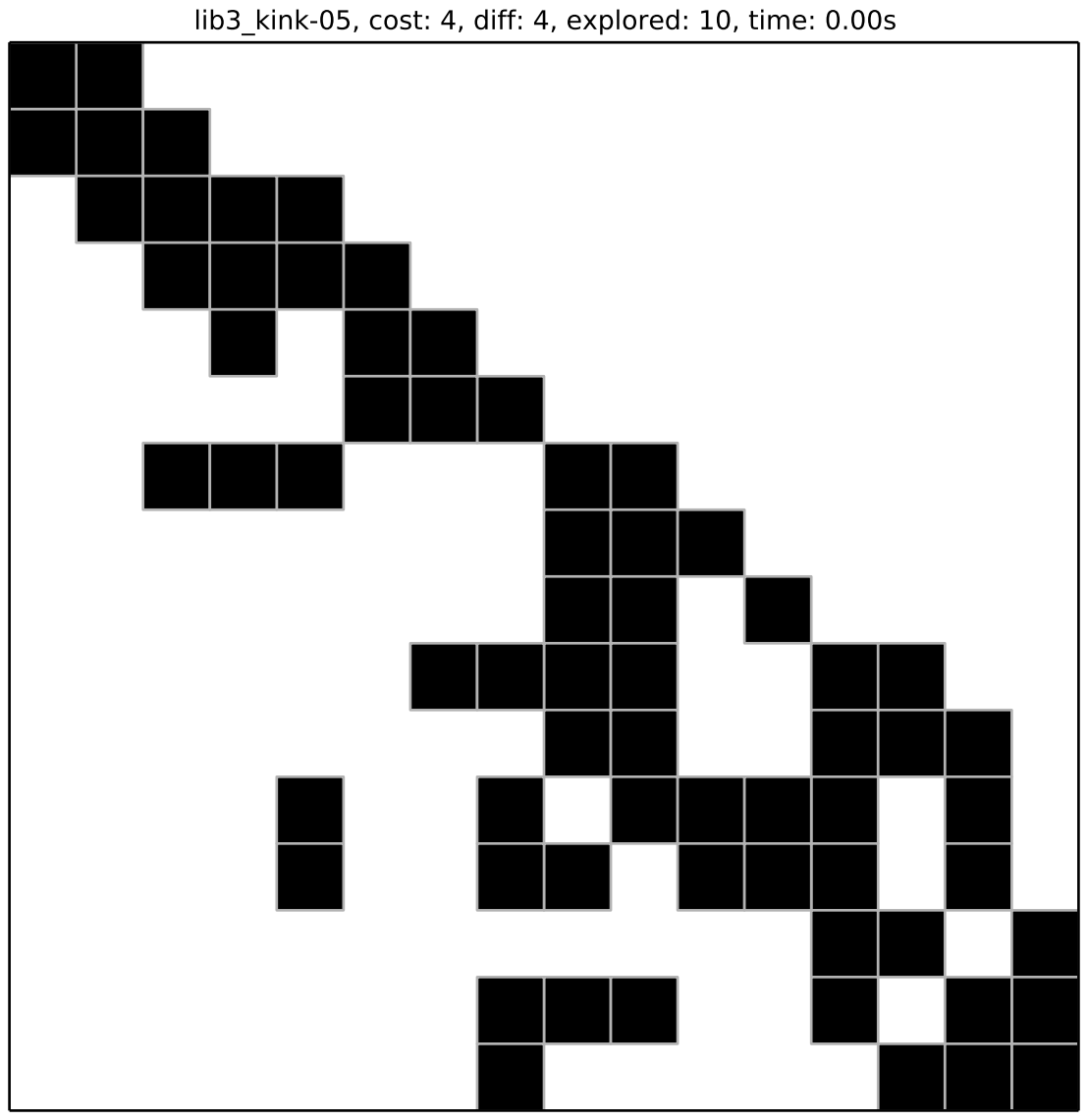
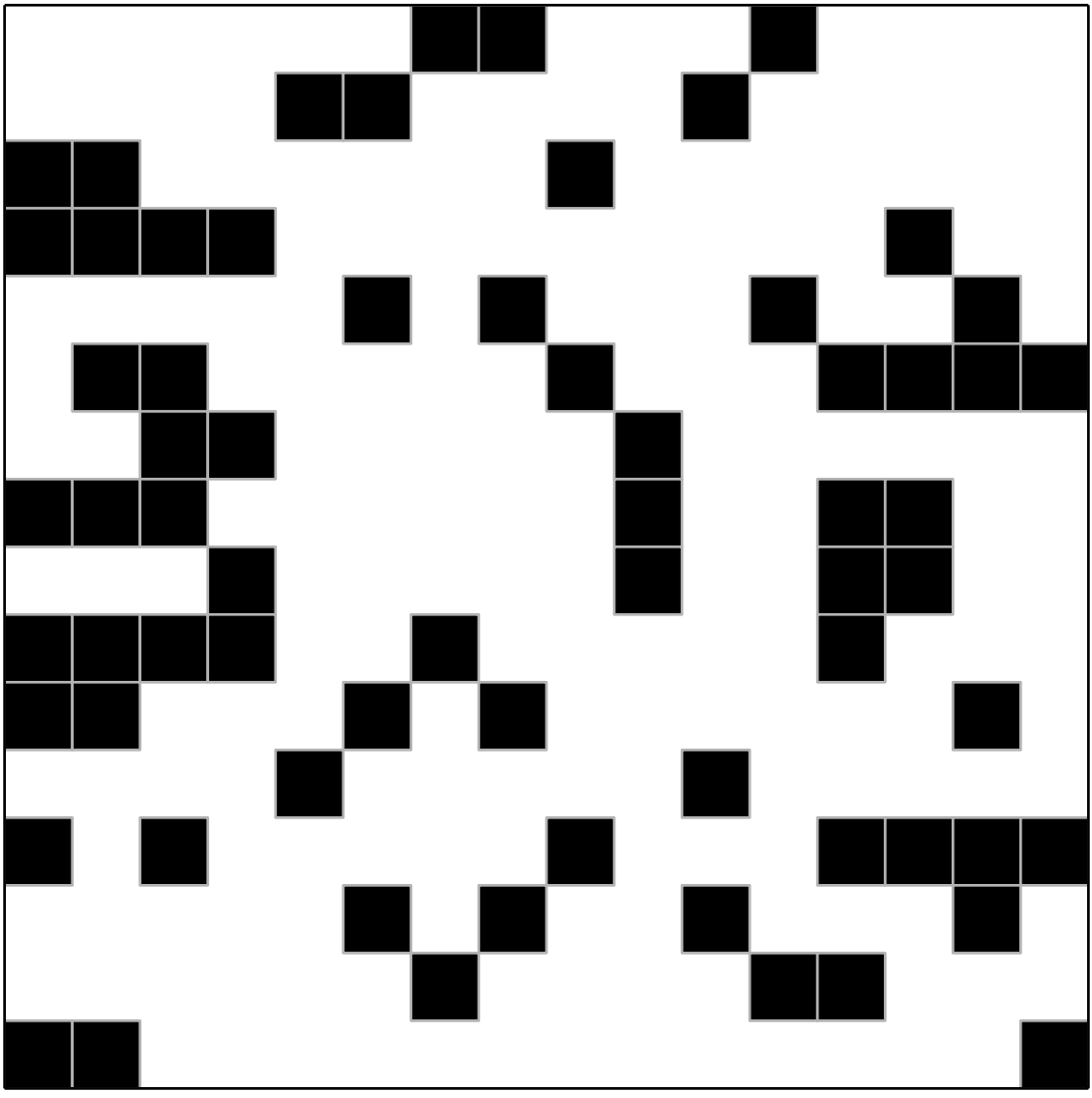
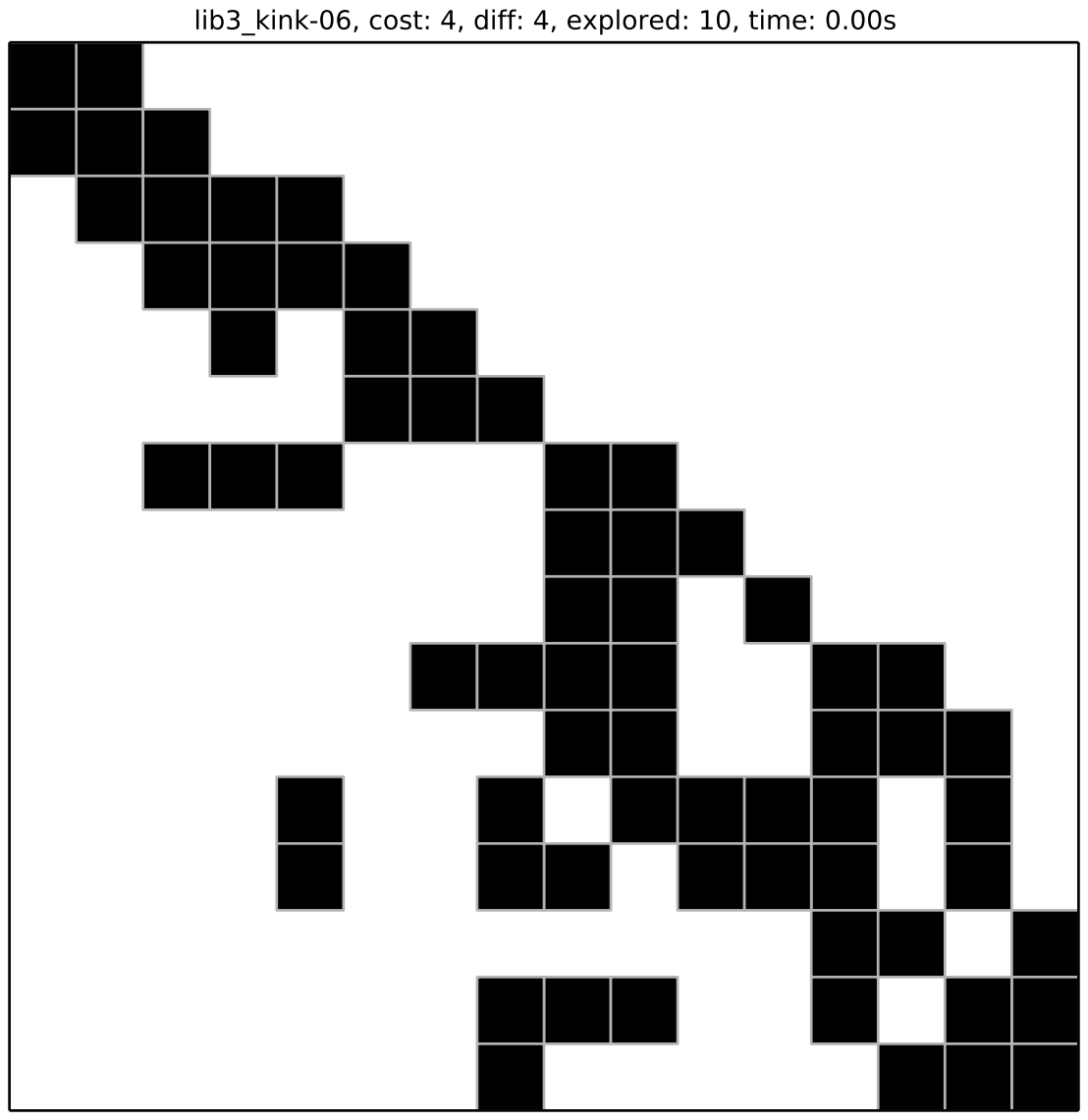
lib3_kink-05 16x16 (68) con: 8, var: 8




lib3_kink-05, cost: 4, diff: 4, explored: 10, time: 0.00s

lib3_kink-06 16x16 (68) con: 8, var: 8

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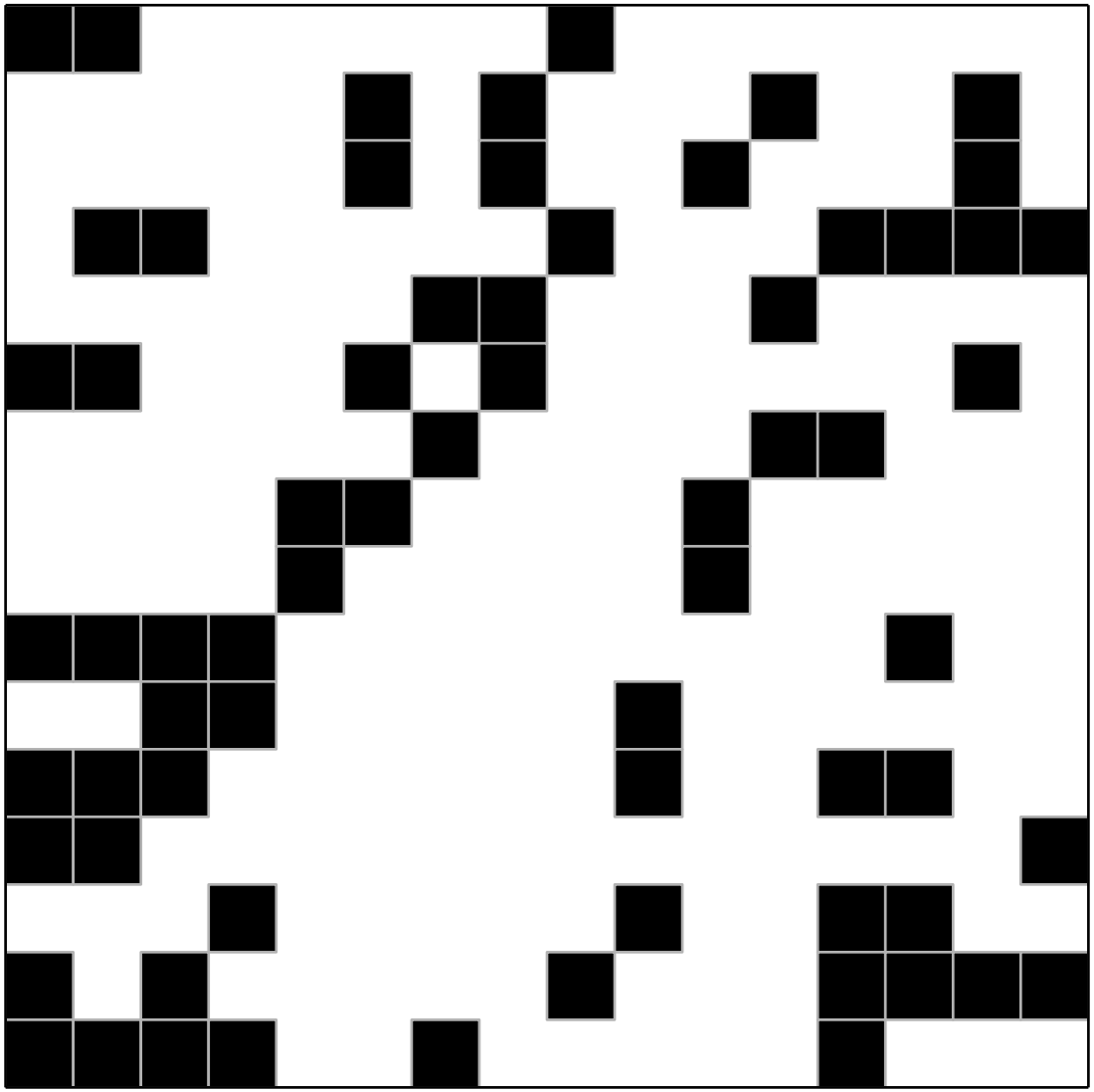
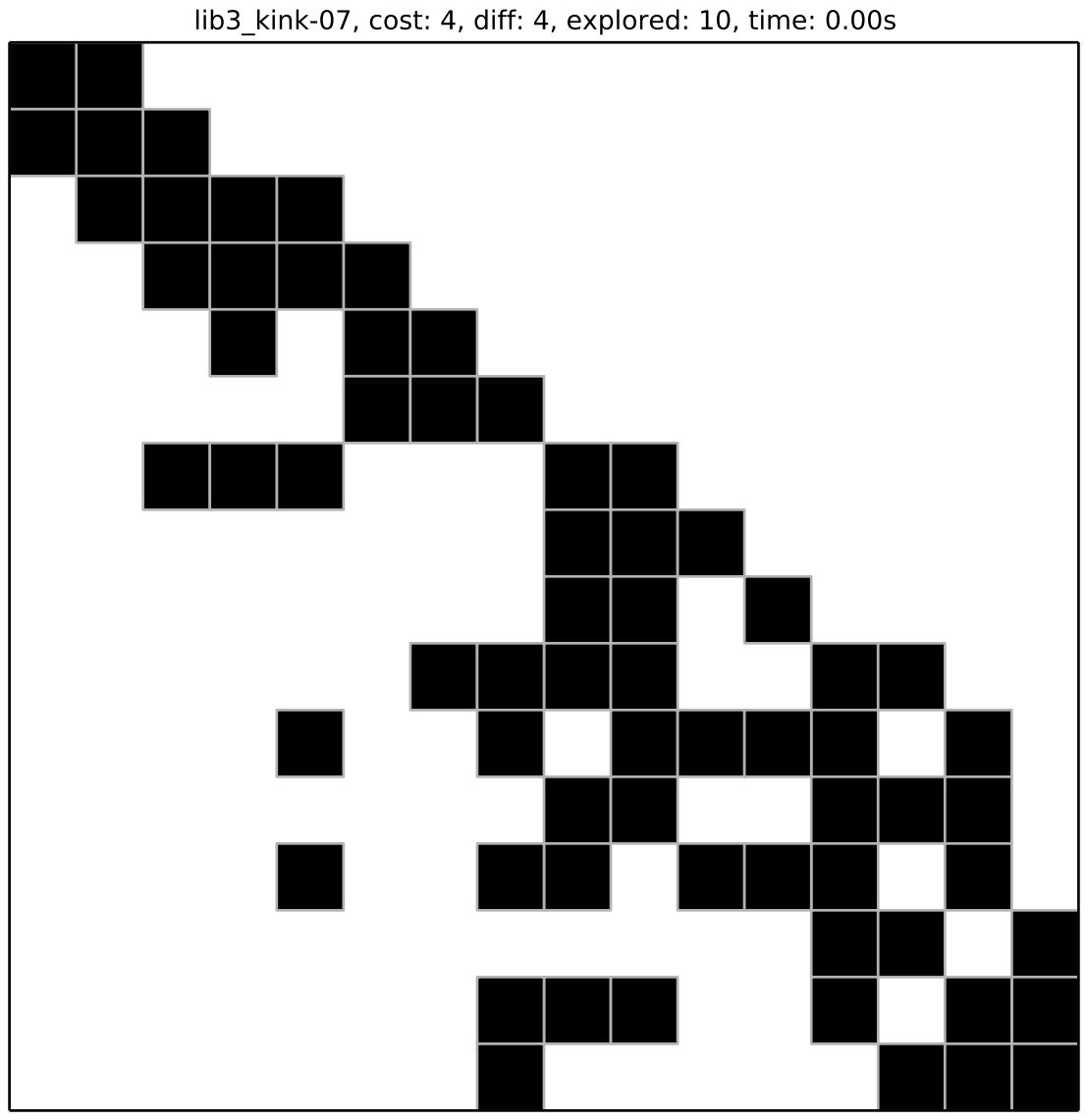
lib3_kink-07 16x16 (68) con: 8, var: 8

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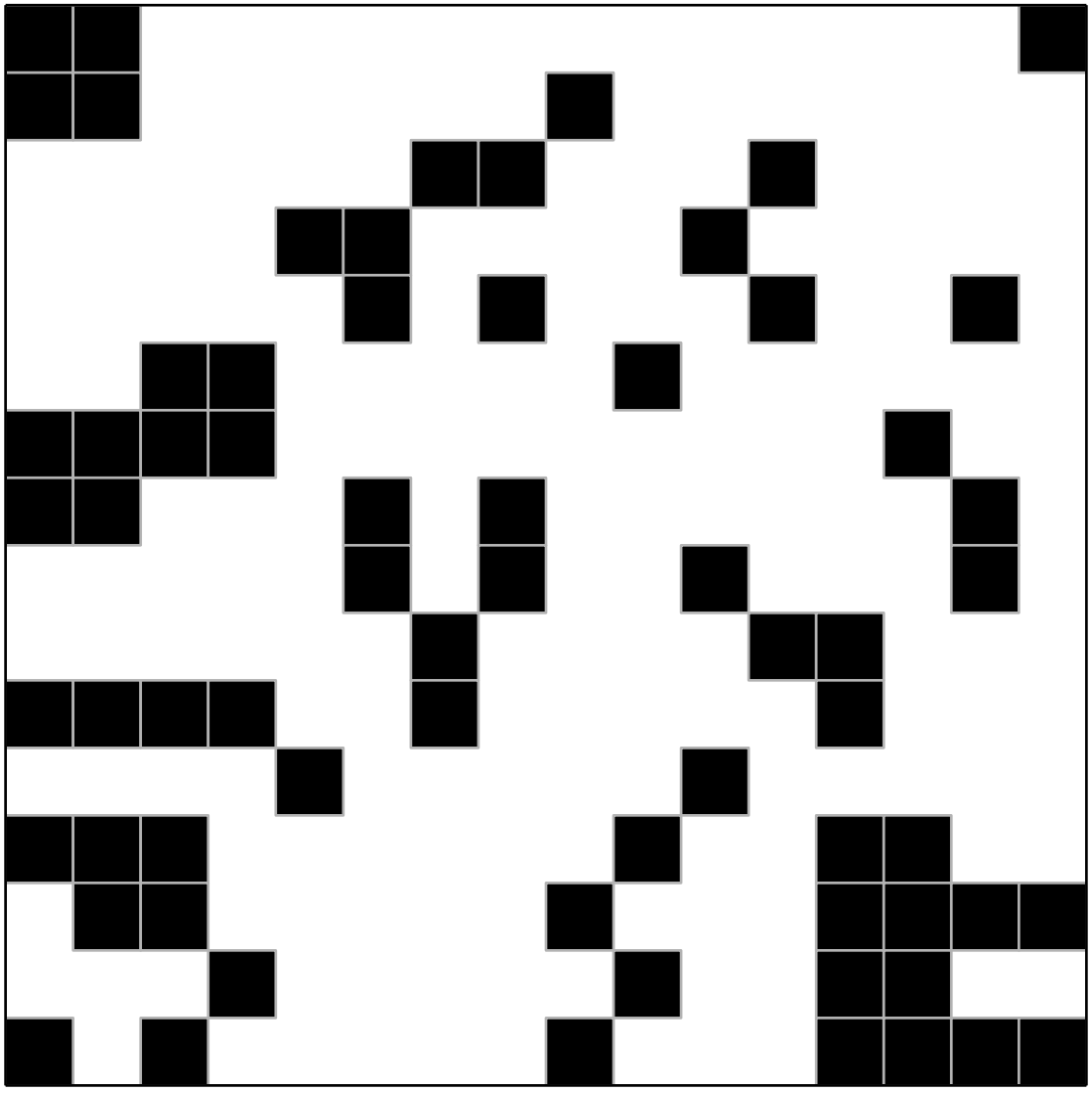
lib3_kink-08 16x16 (68) con: 8, var: 8



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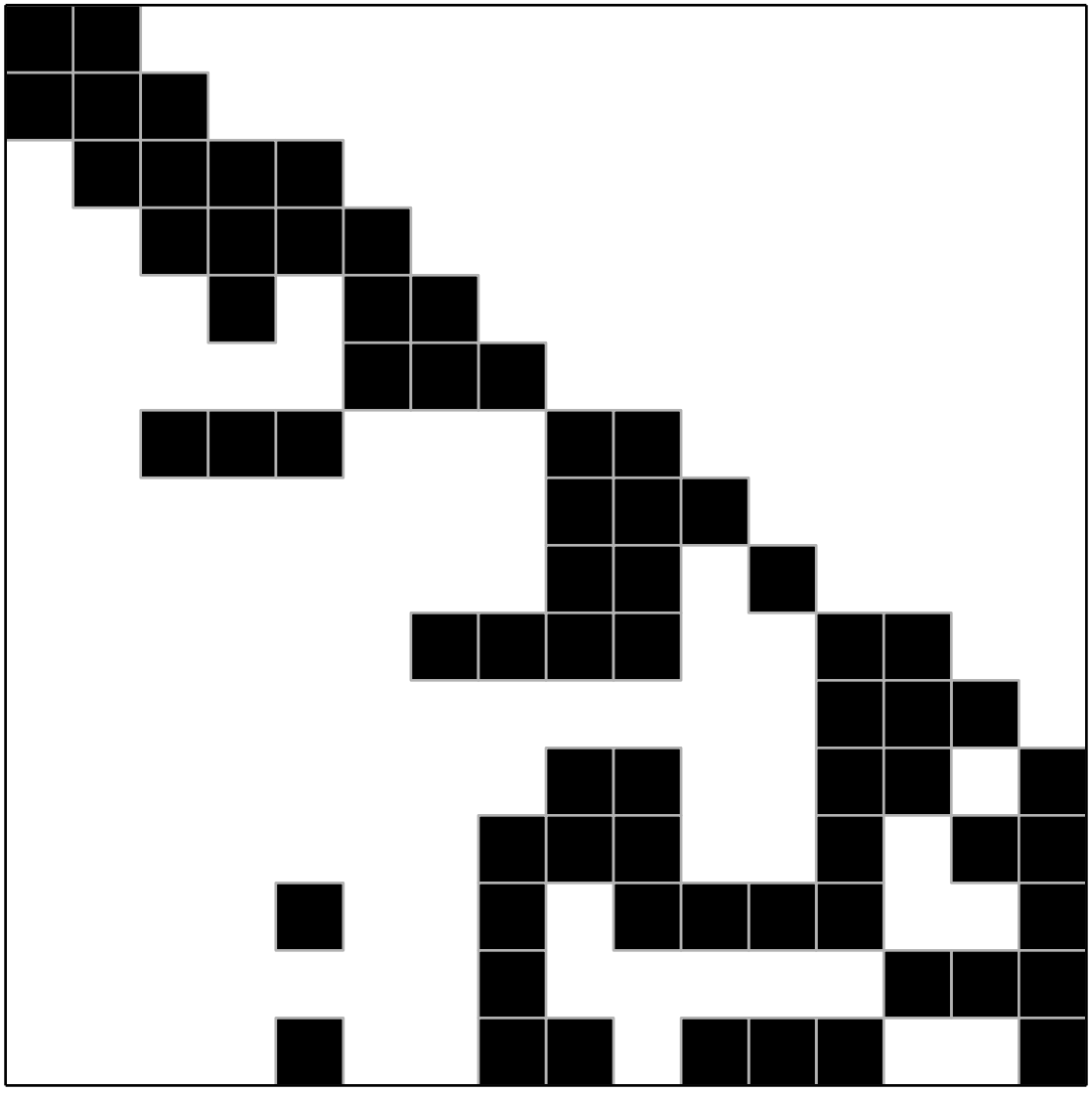
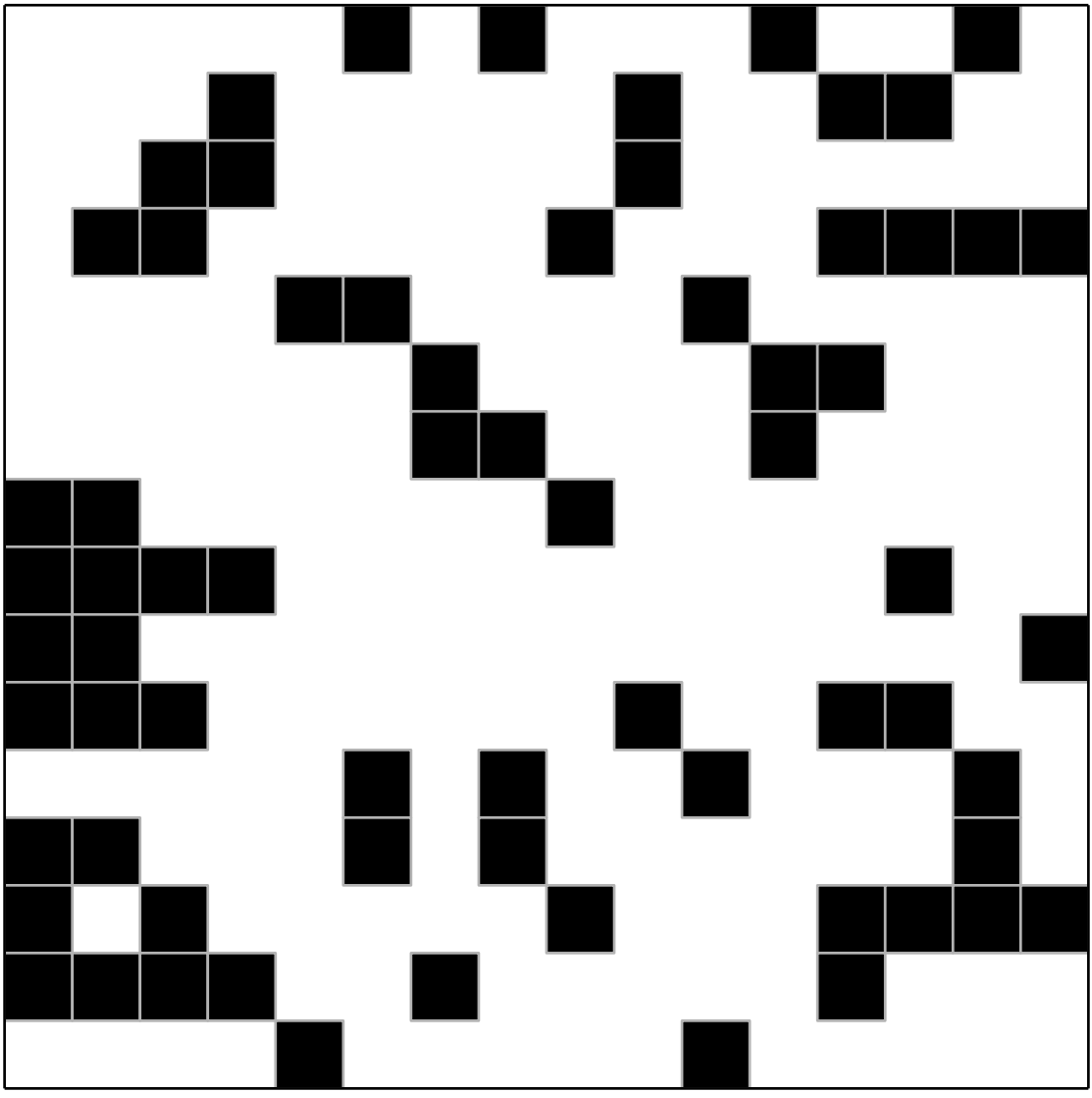


lib3_kink-09 16x16 (68) con: 8, var: 8



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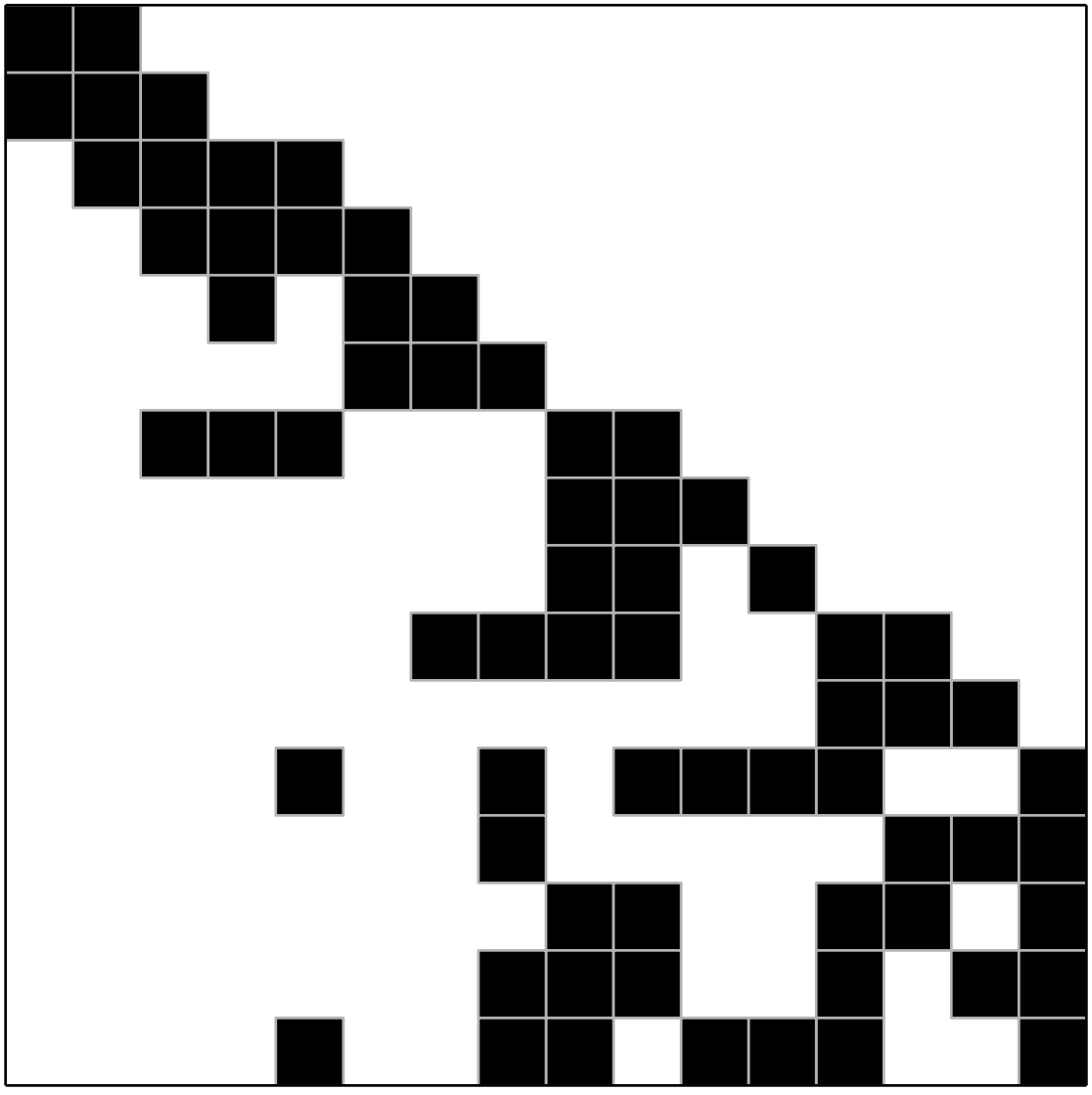
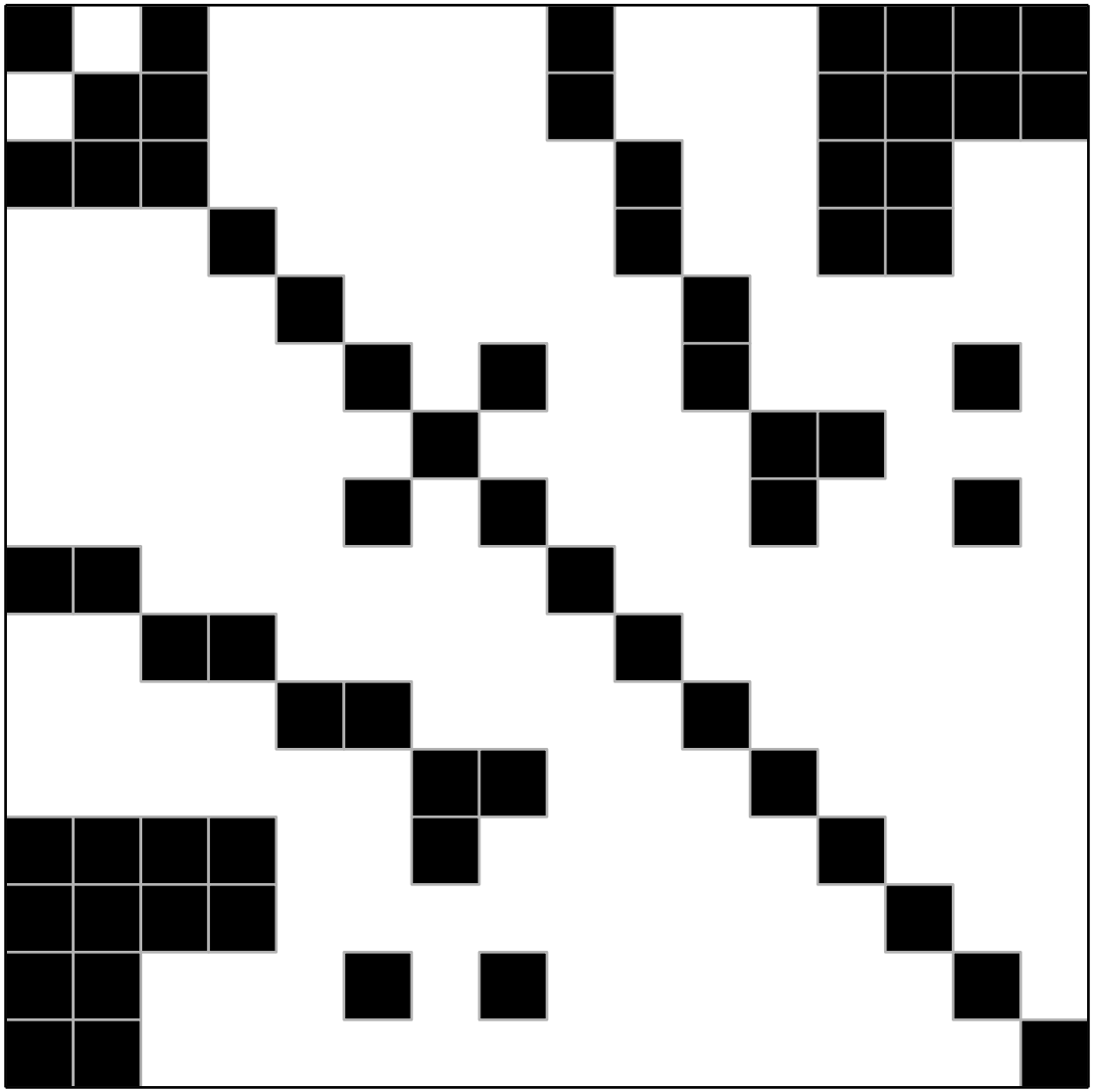
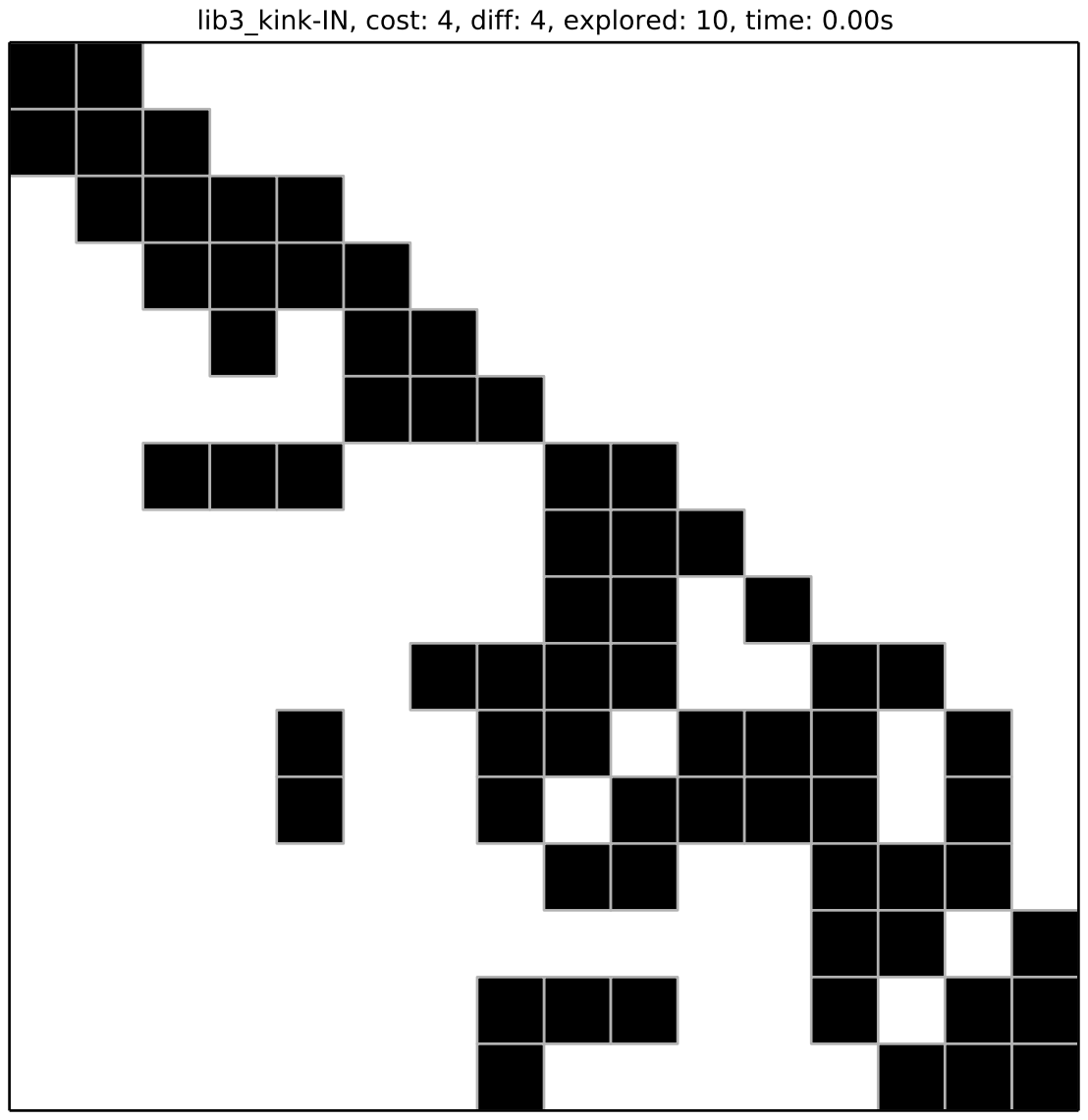


lib3_kink-IN 16x16 (68) con: 8, var: 8

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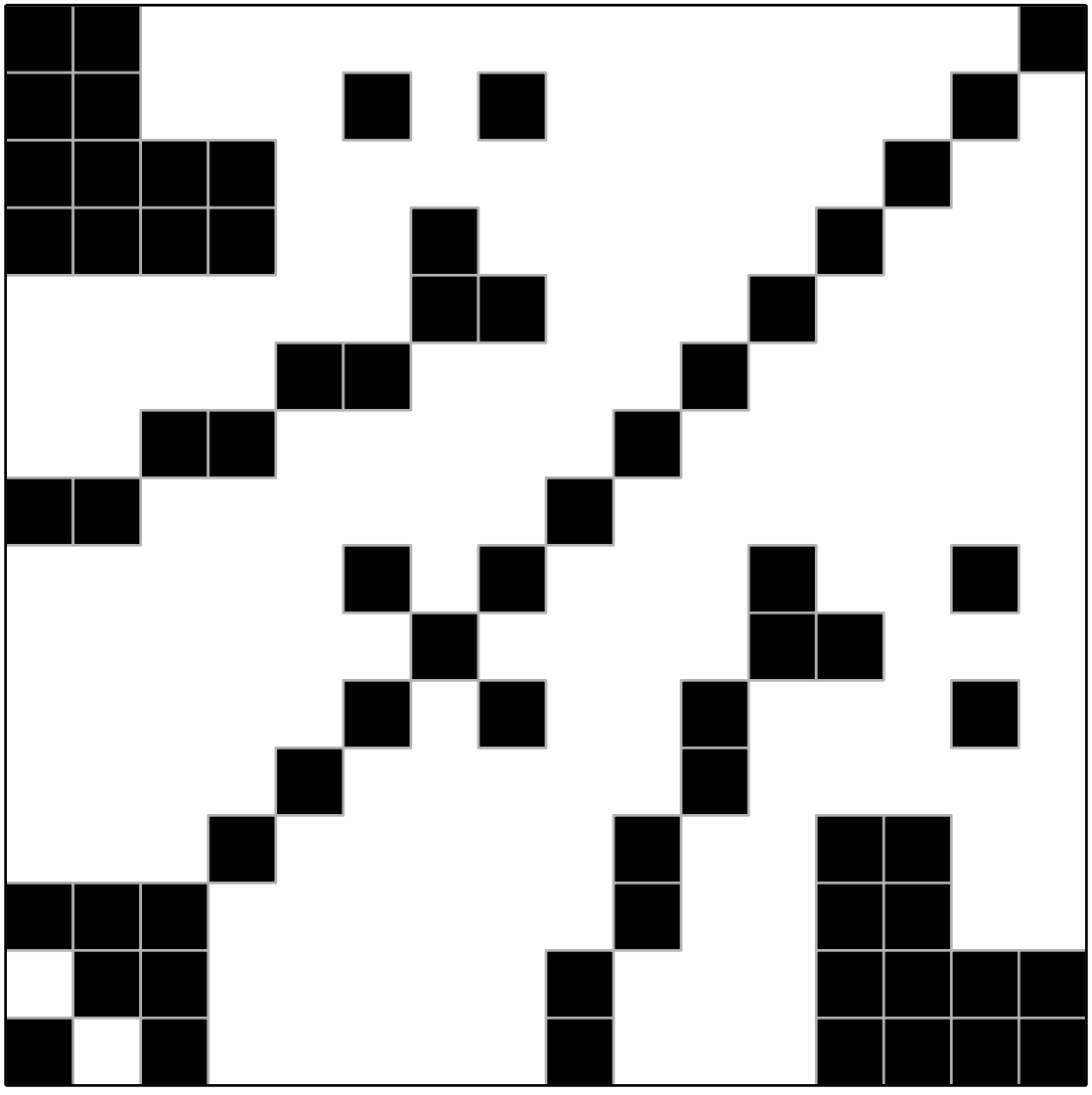
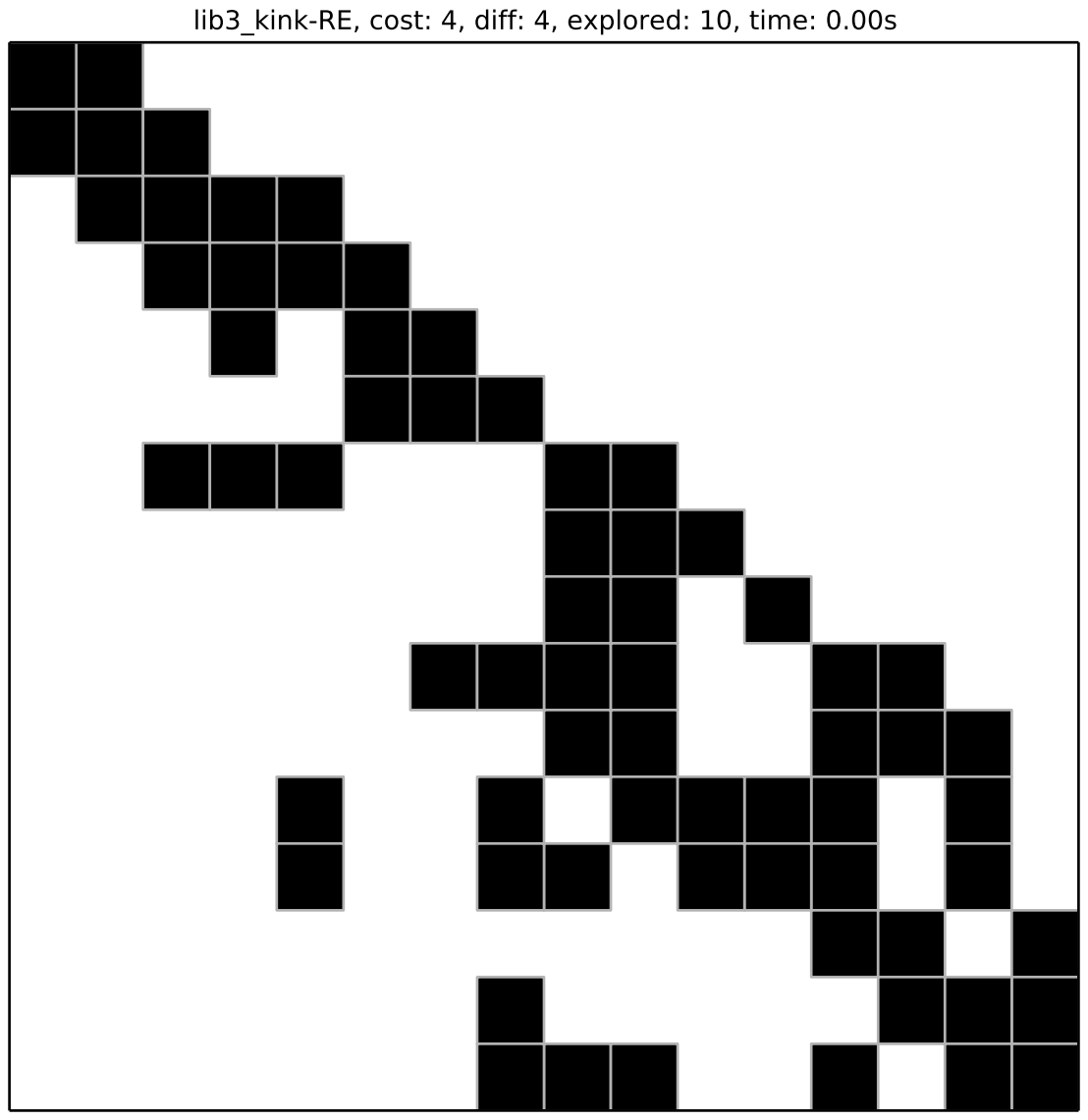
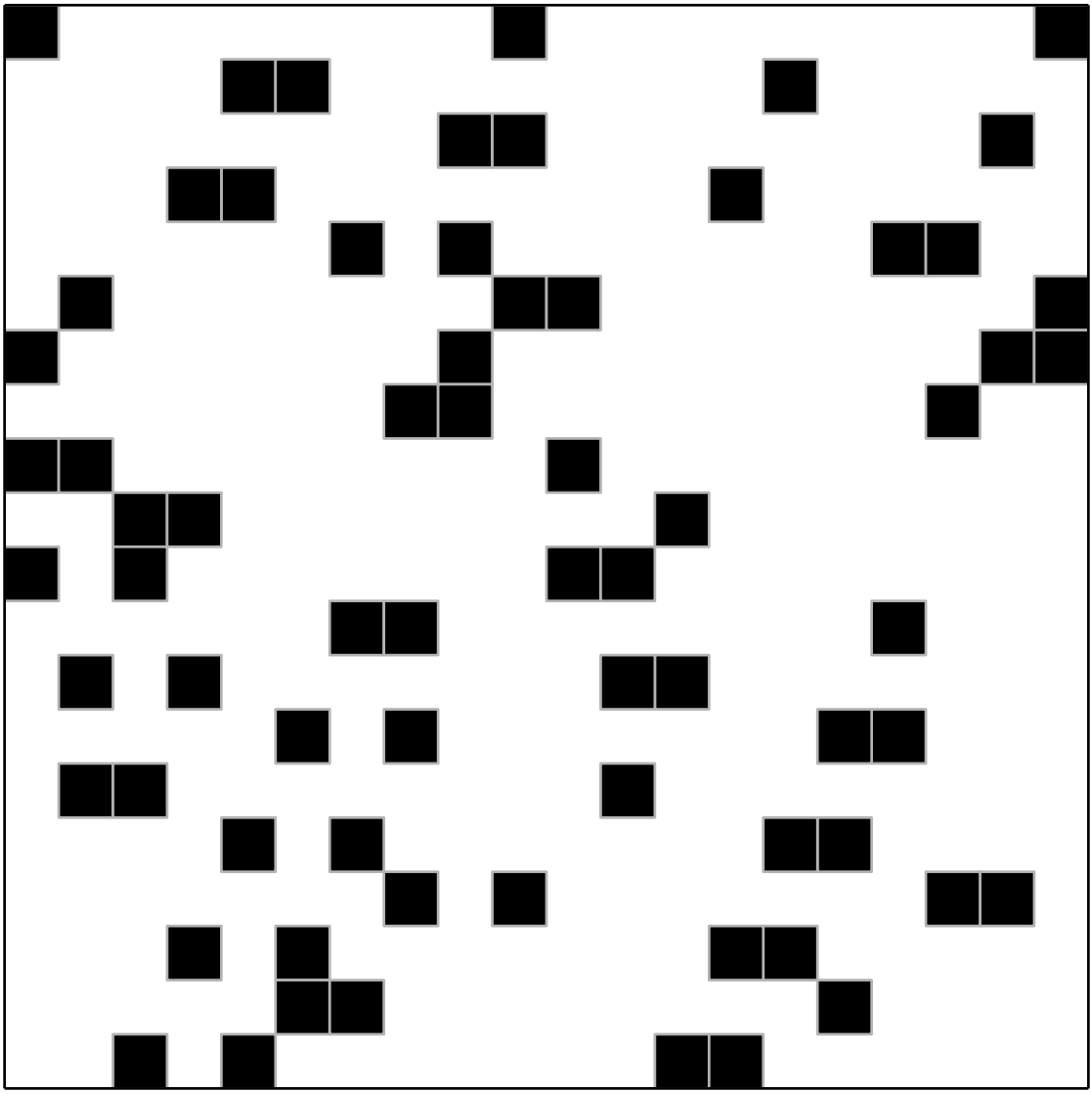
lib3_kink-RE 16x16 (68) con: 8, var: 8

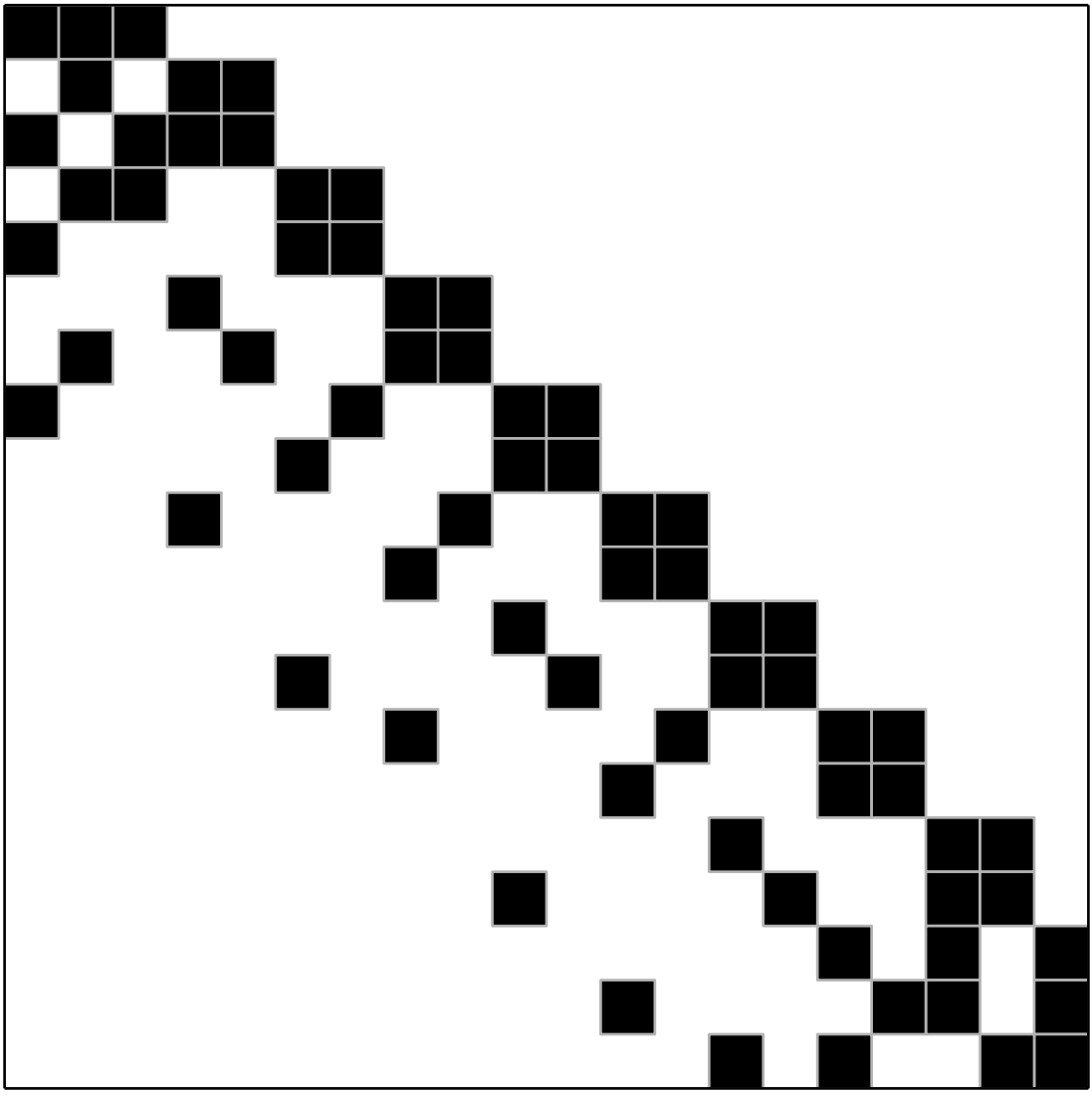



lib3_kink-RE, cost: 4, diff: 4, explored: 10, time: 0.00s

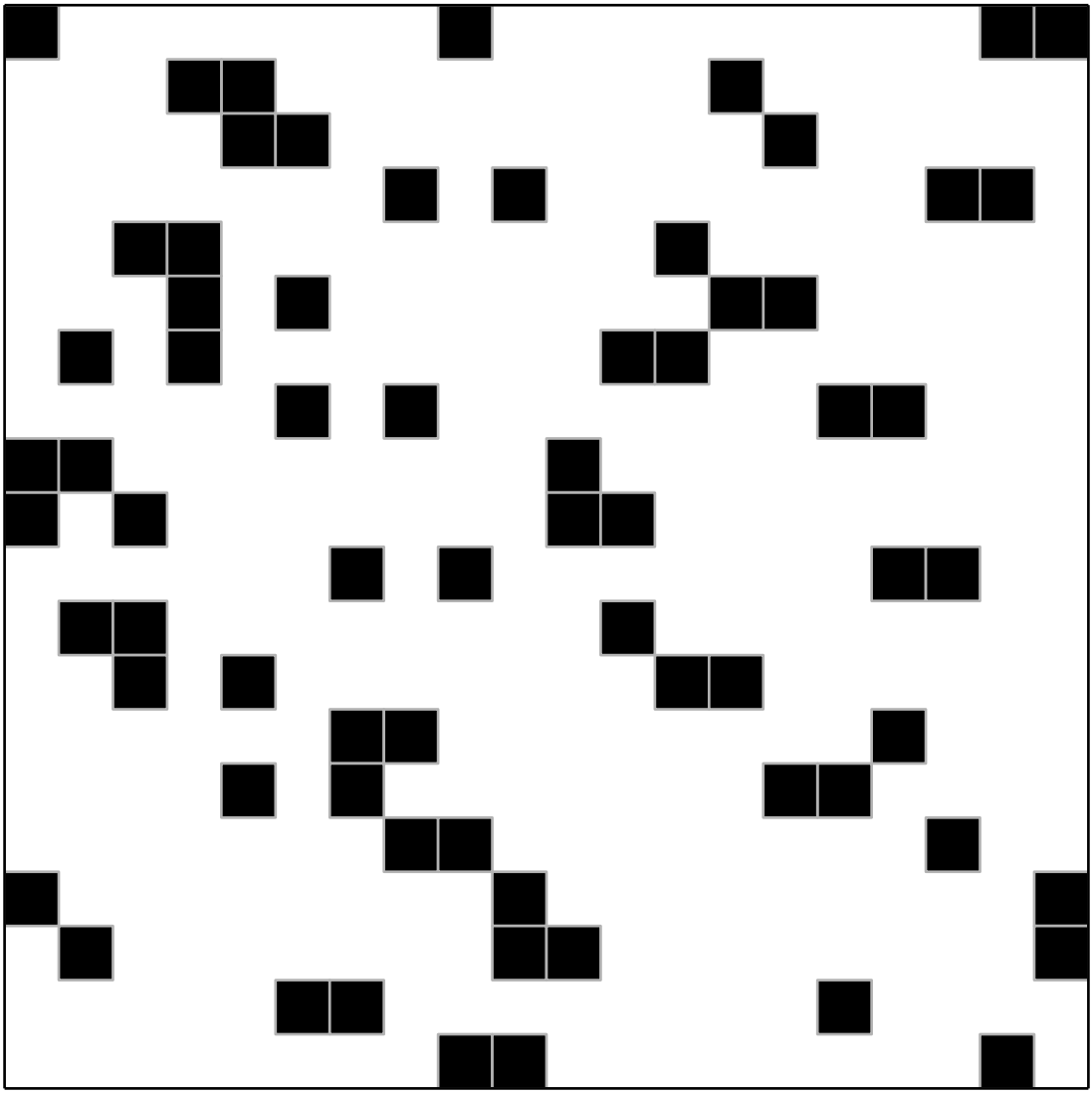
lib3_ku-00 20x20 (70) con: 10, var: 10



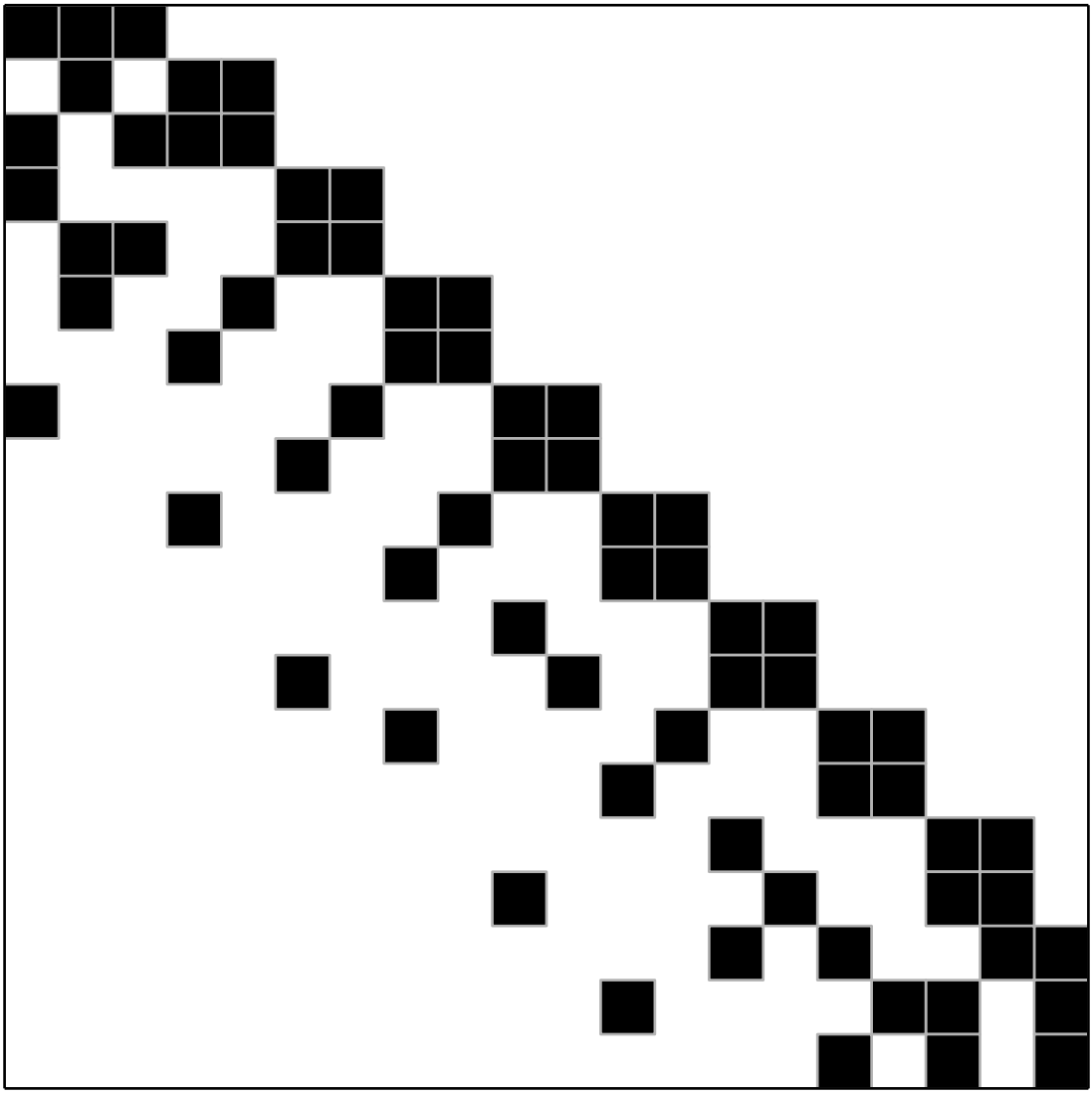
lib3_ku-00, cost: 10, diff: 10, explored: 612, time: 0.23s



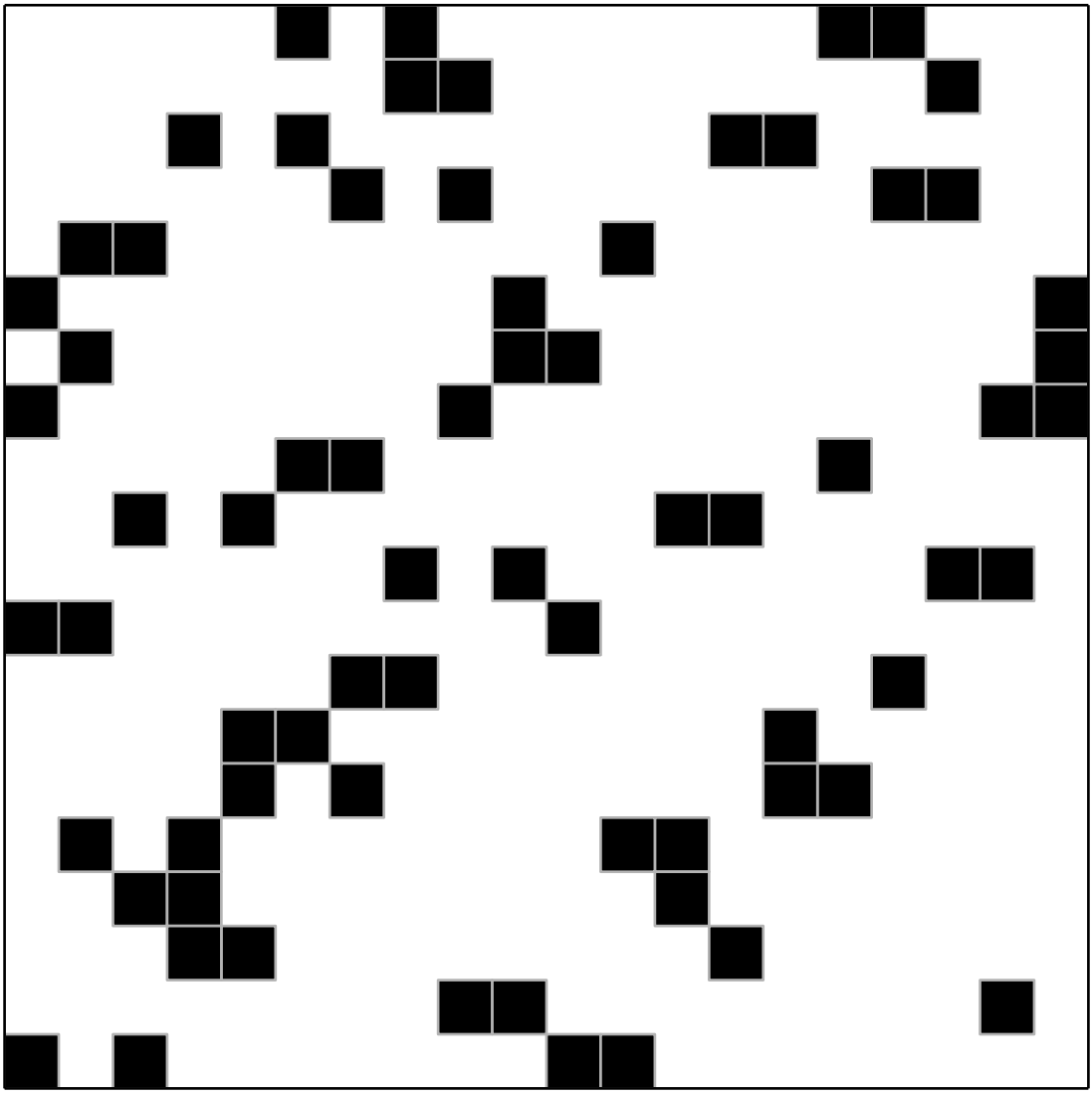
lib3_ku-01 20x20 (70) con: 10, var: 10

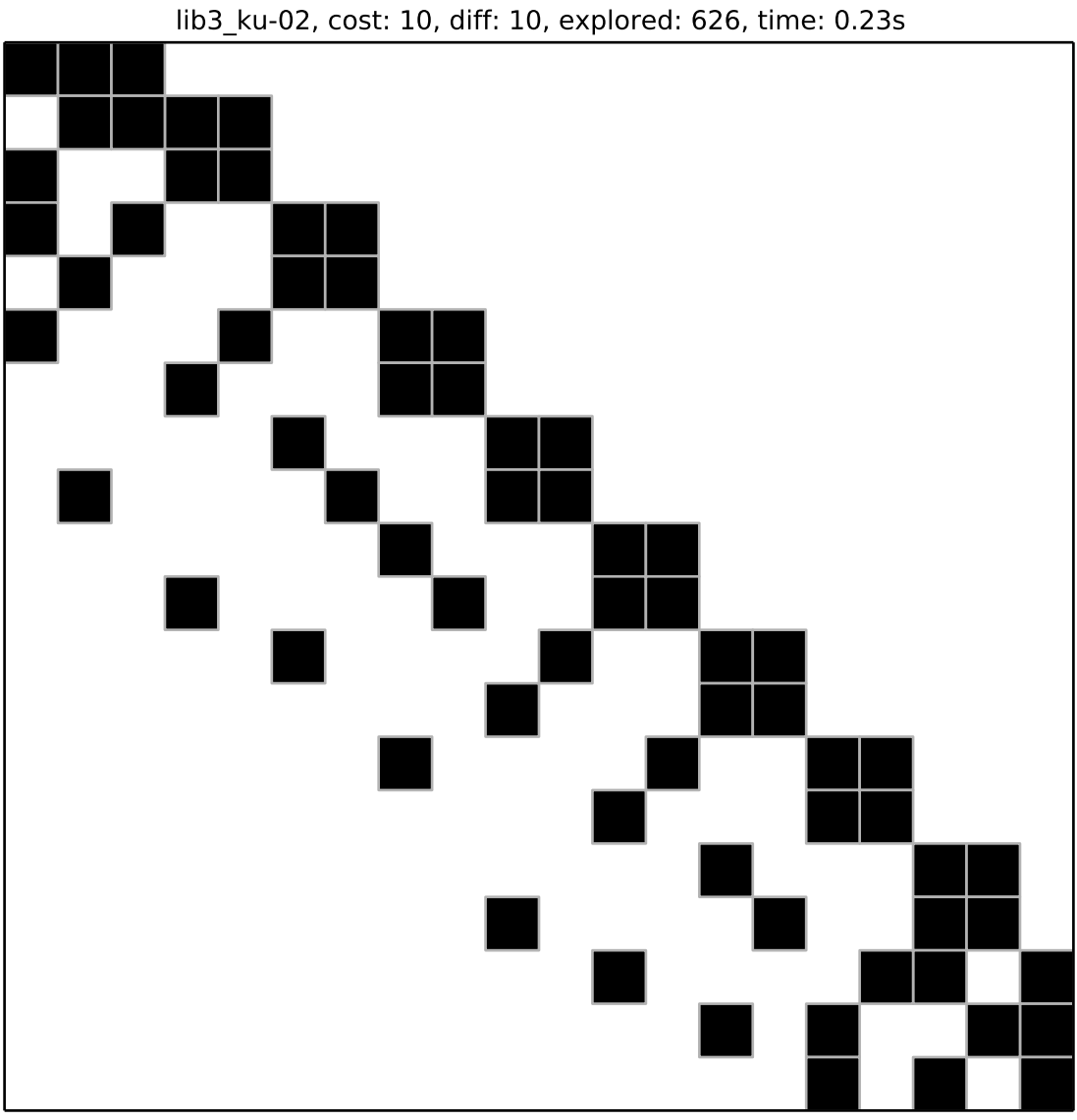


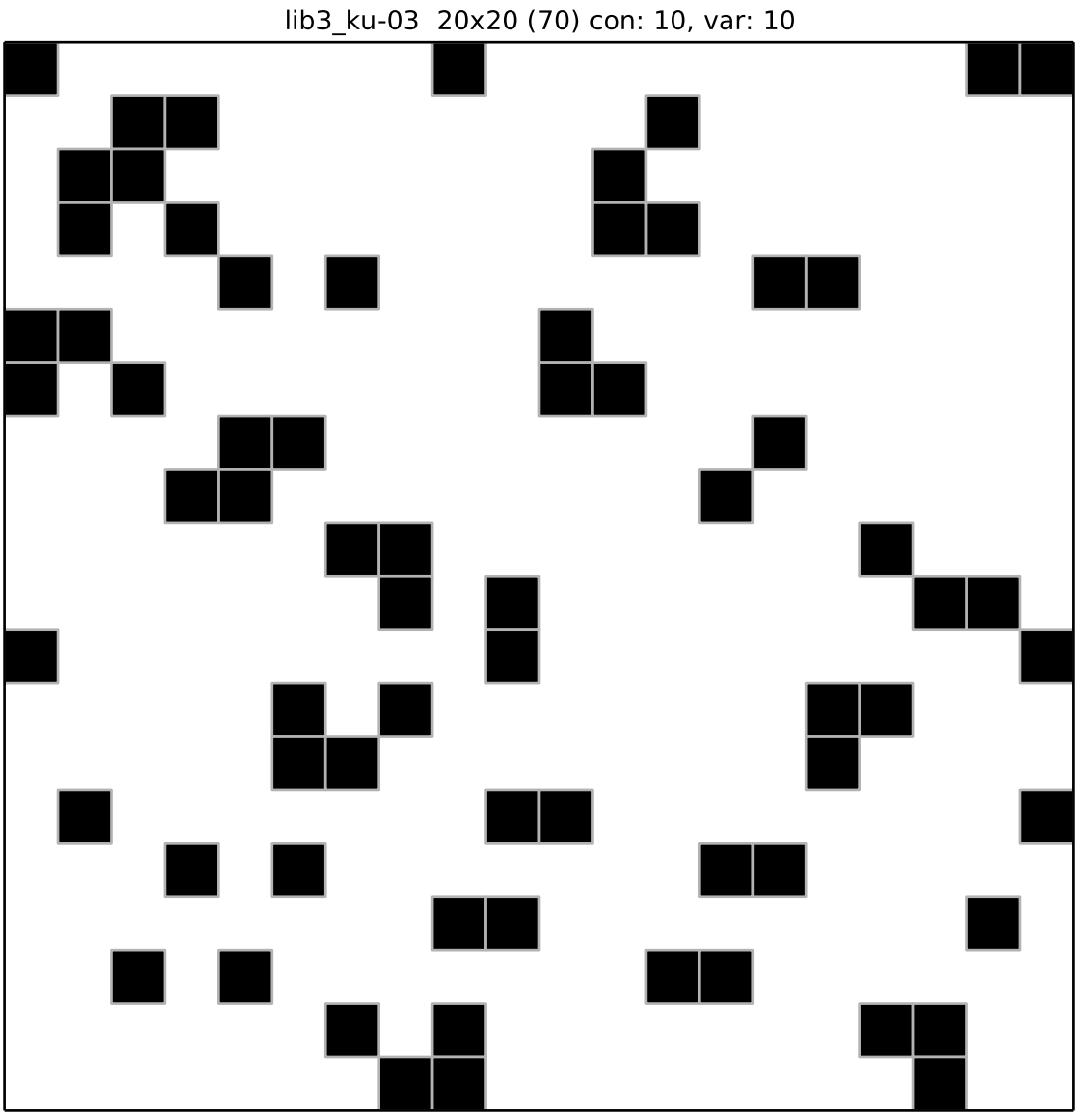
lib3_ku-01, cost: 10, diff: 10, explored: 620, time: 0.23s

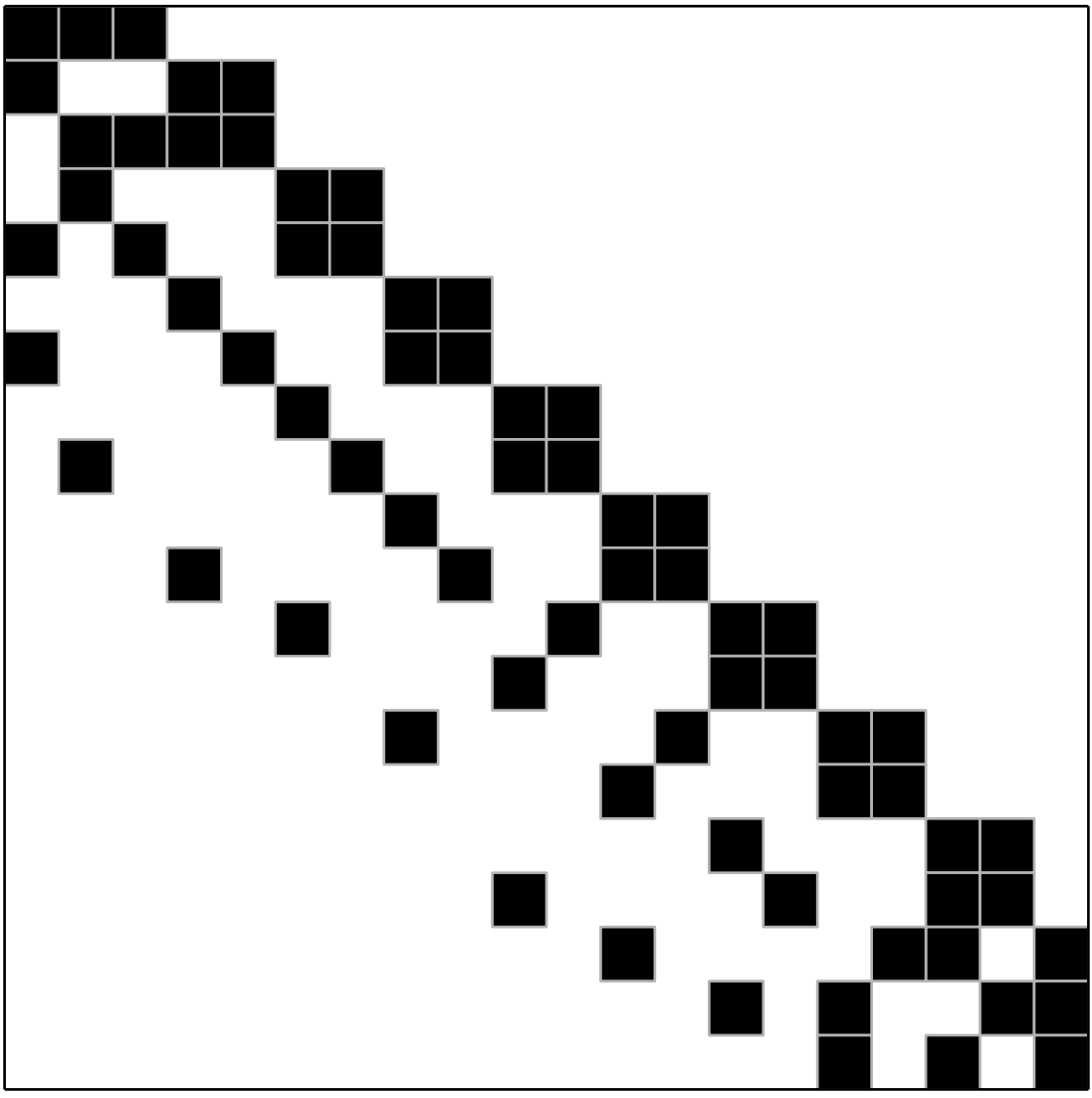


lib3_ku-02 20x20 (70) con: 10, var: 10




lib3_ku-02, cost: 10, diff: 10, explored: 626, time: 0.23s


lib3_ku-03 20x20 (70) con: 10, var: 10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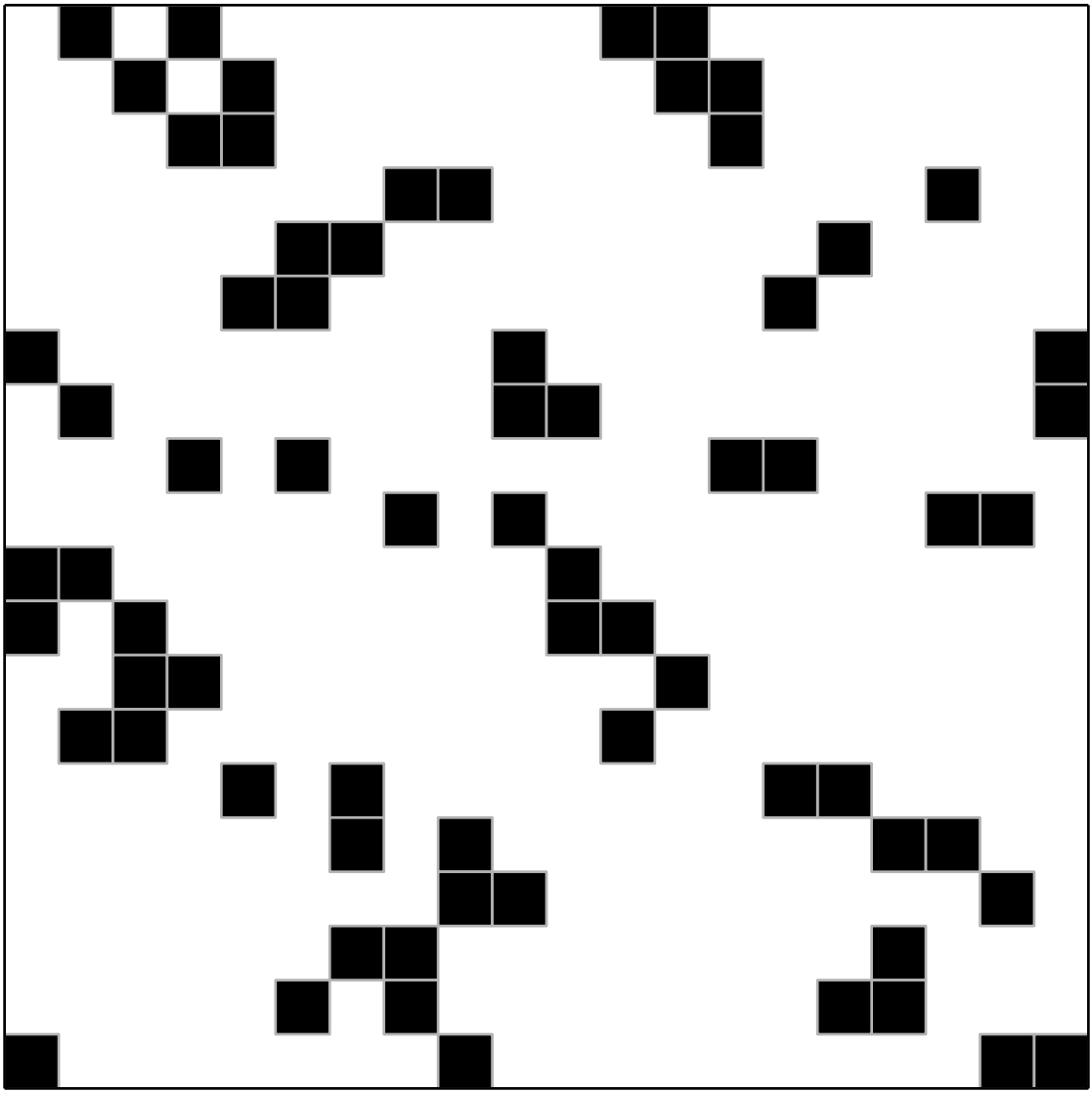
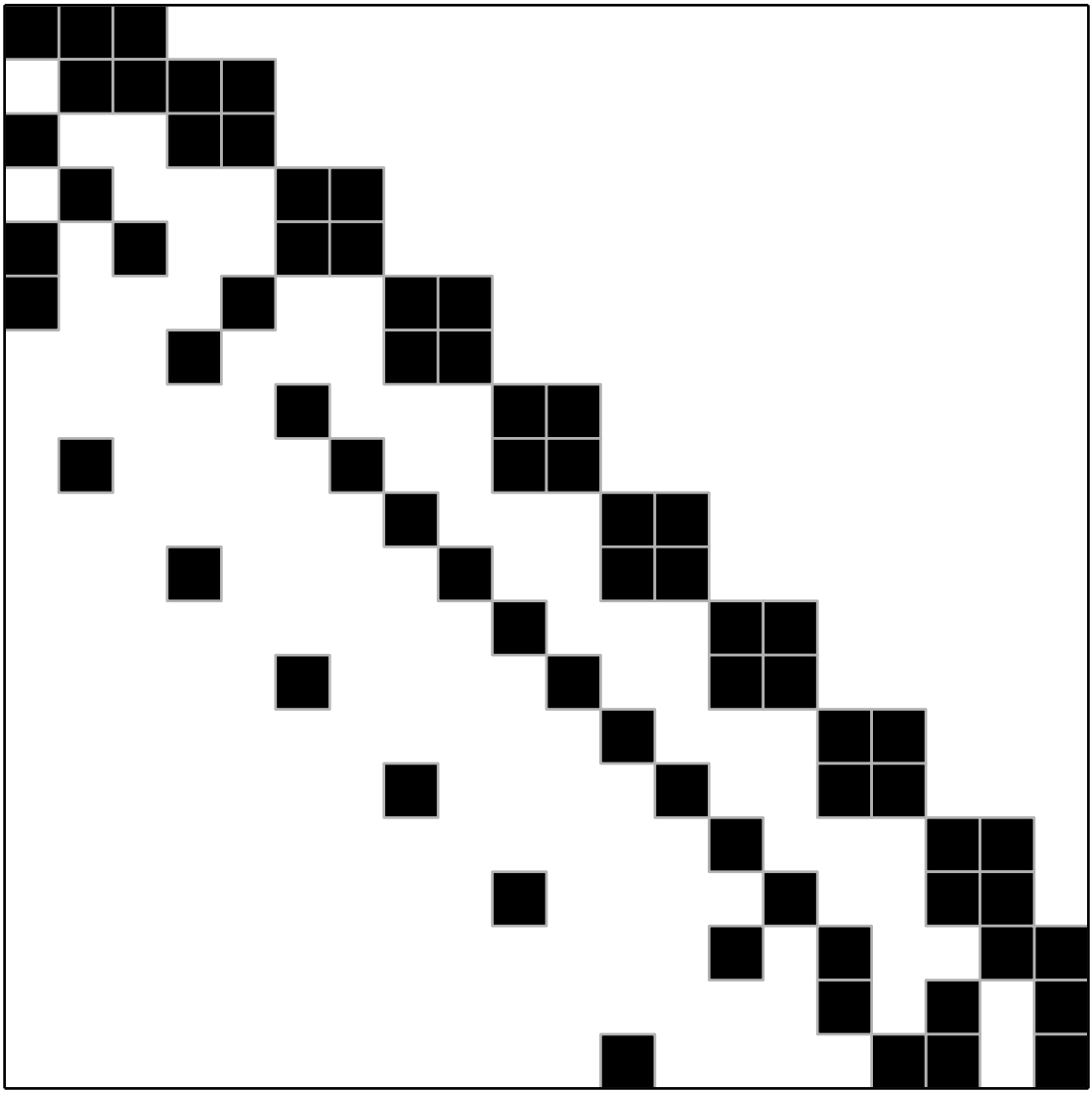
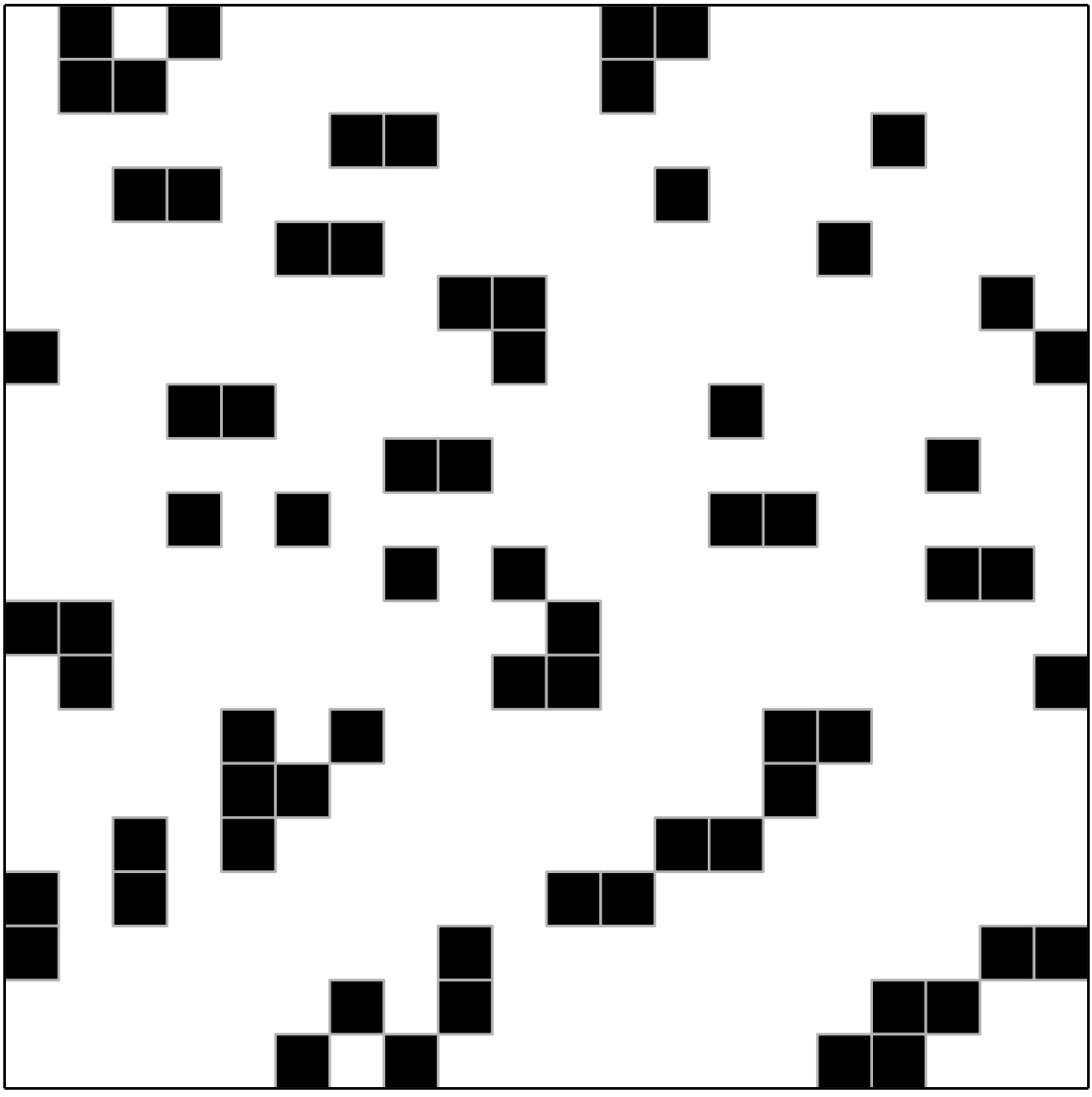
lib3_ku-04 20x20 (70) con: 10, var: 10

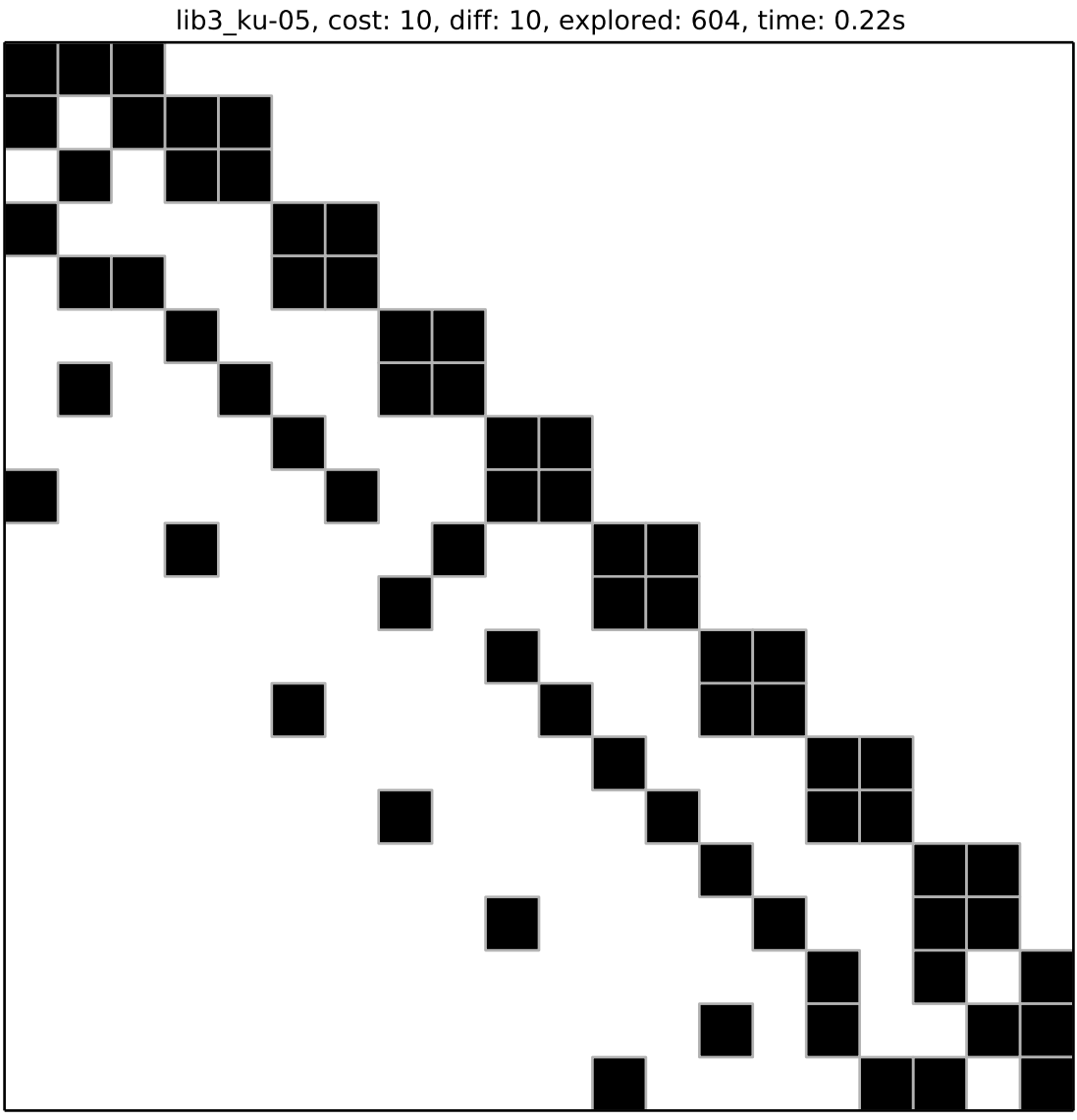


lib3_ku-04, cost: 10, diff: 10, explored: 631, time: 0.23s



lib3_ku-05 20x20 (70) con: 10, var: 10

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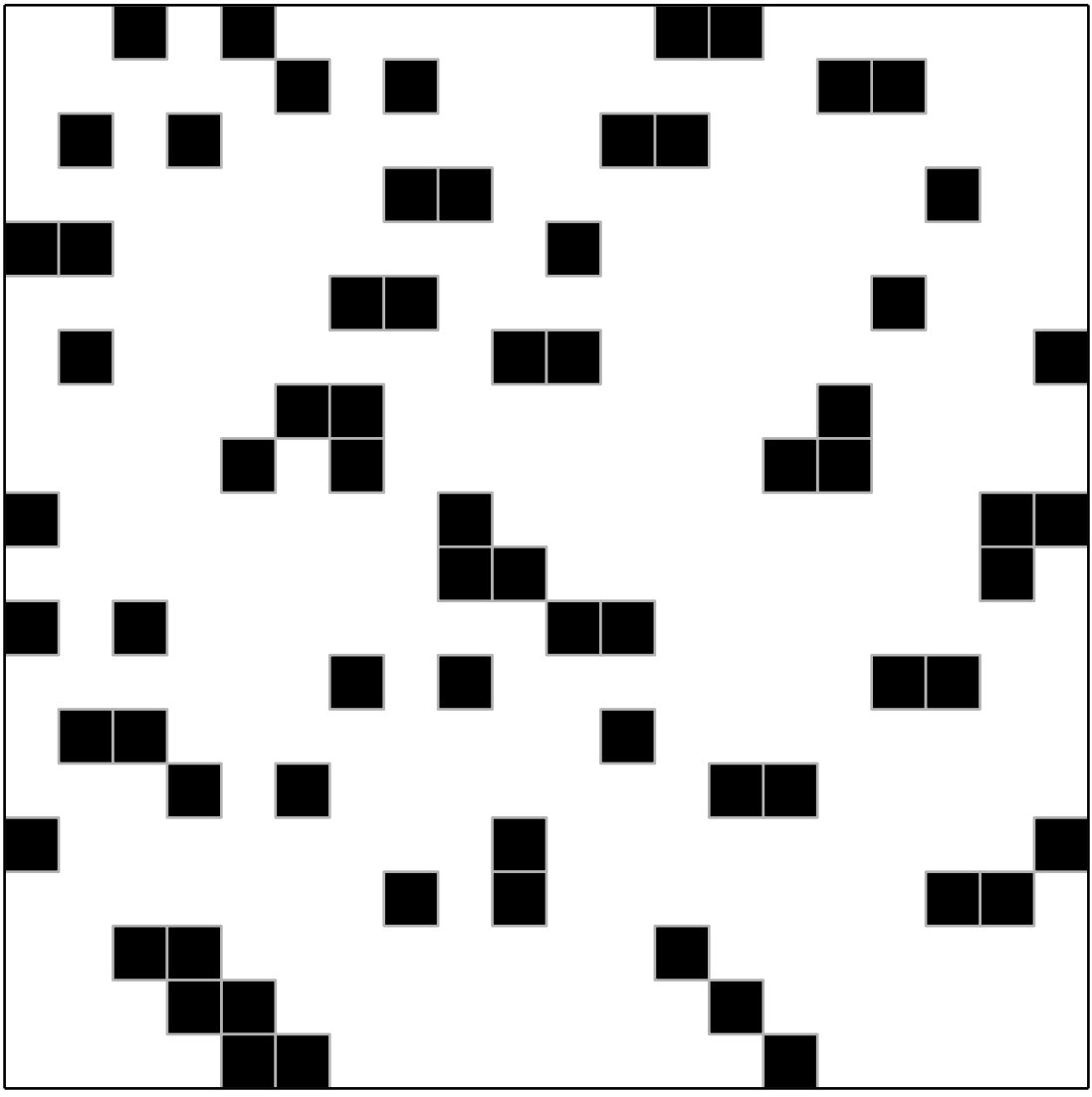
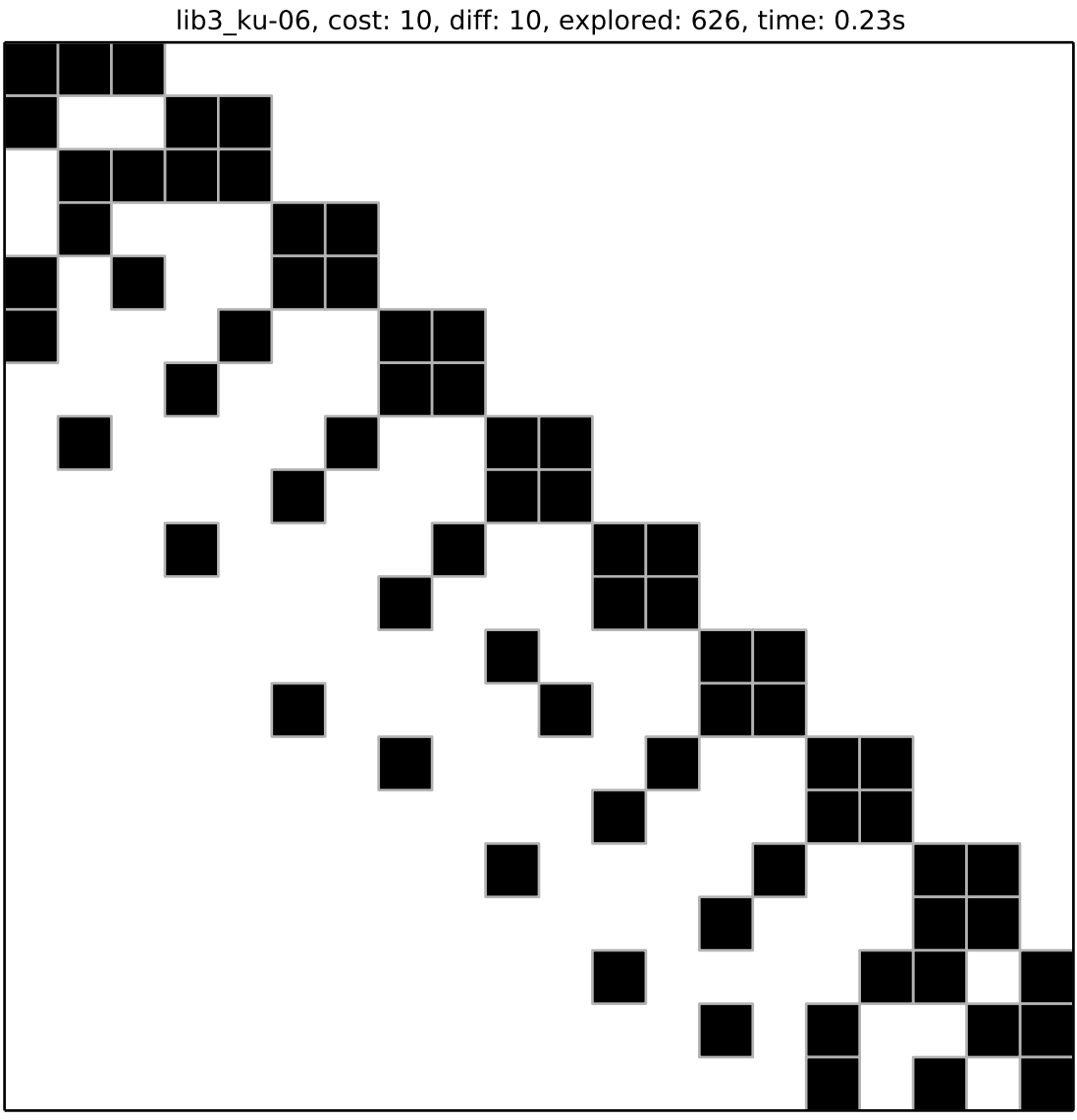
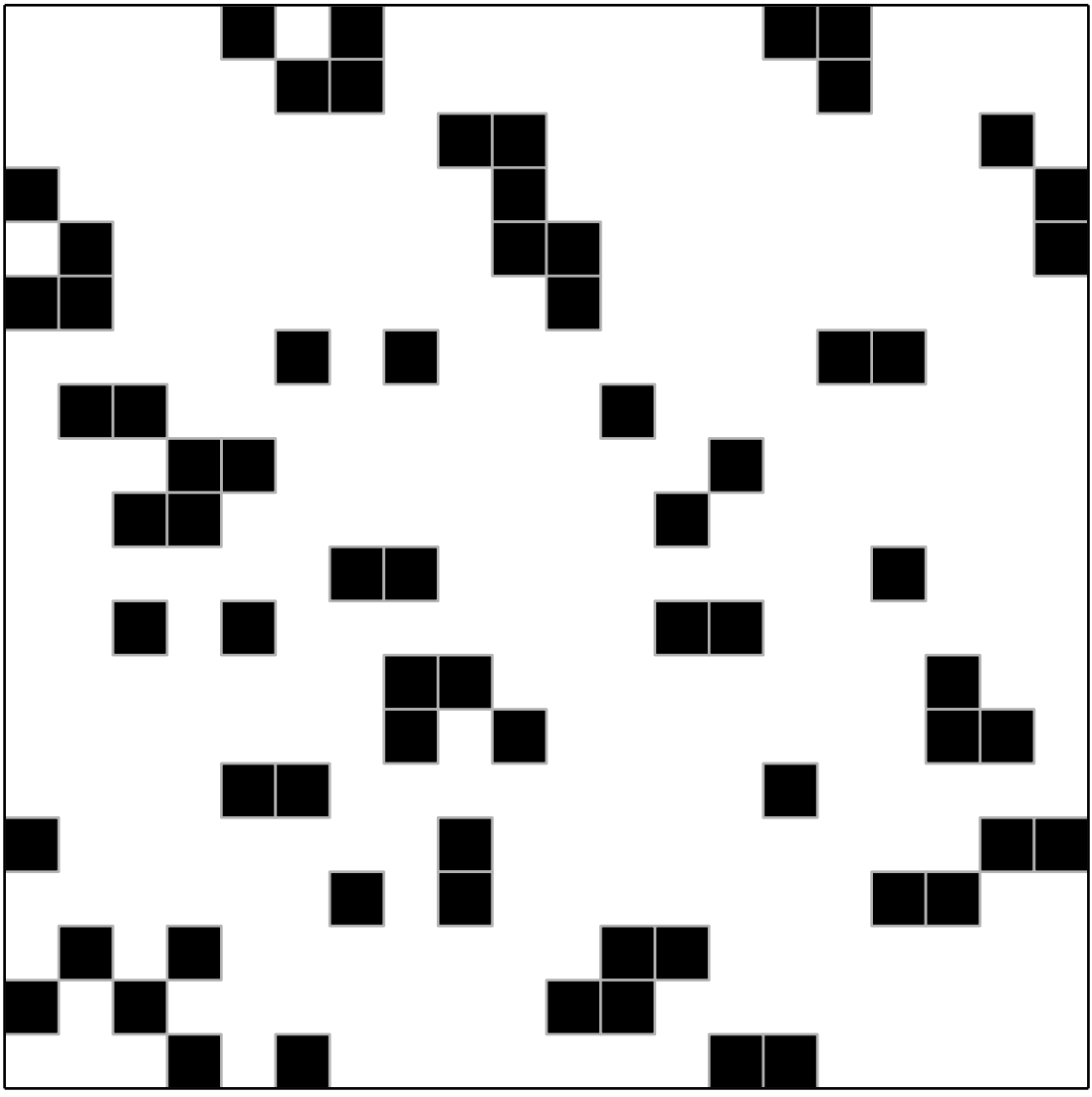
lib3_ku-06 20x20 (70) con: 10, var: 10




lib3_ku-06, cost: 10, diff: 10, explored: 626, time: 0.23s

lib3_ku-07 20x20 (70) con: 10, var: 10



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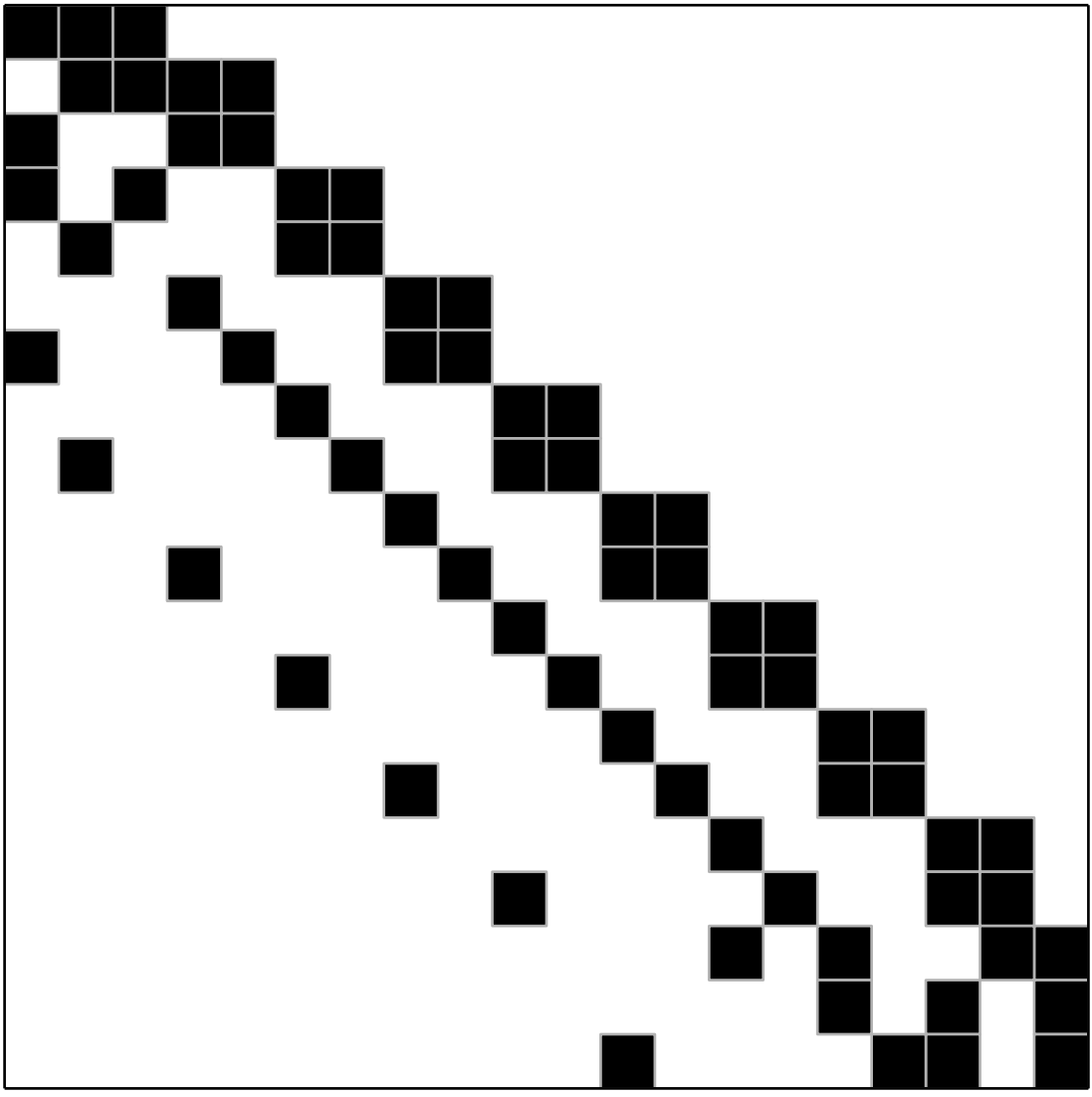
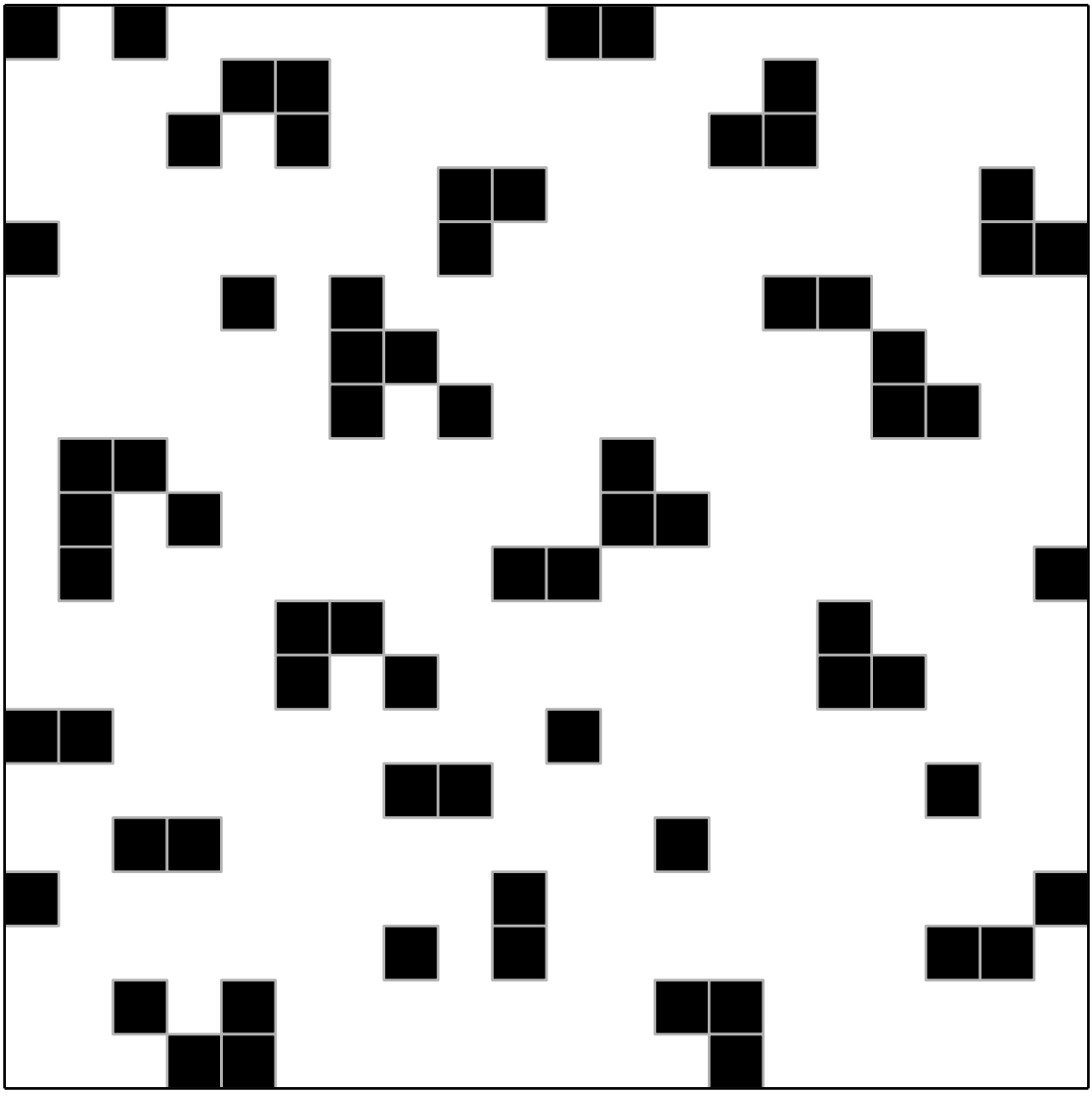
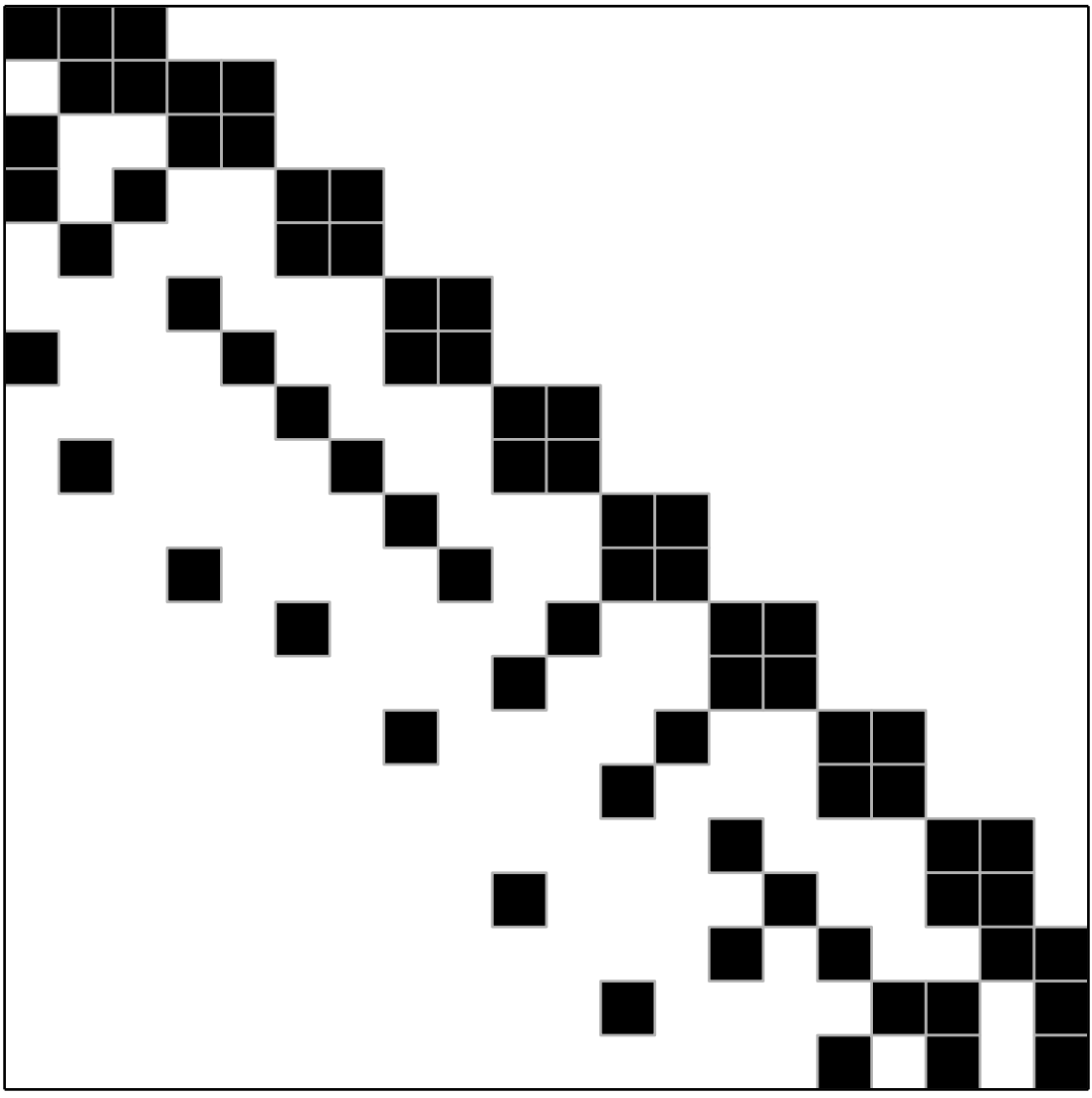
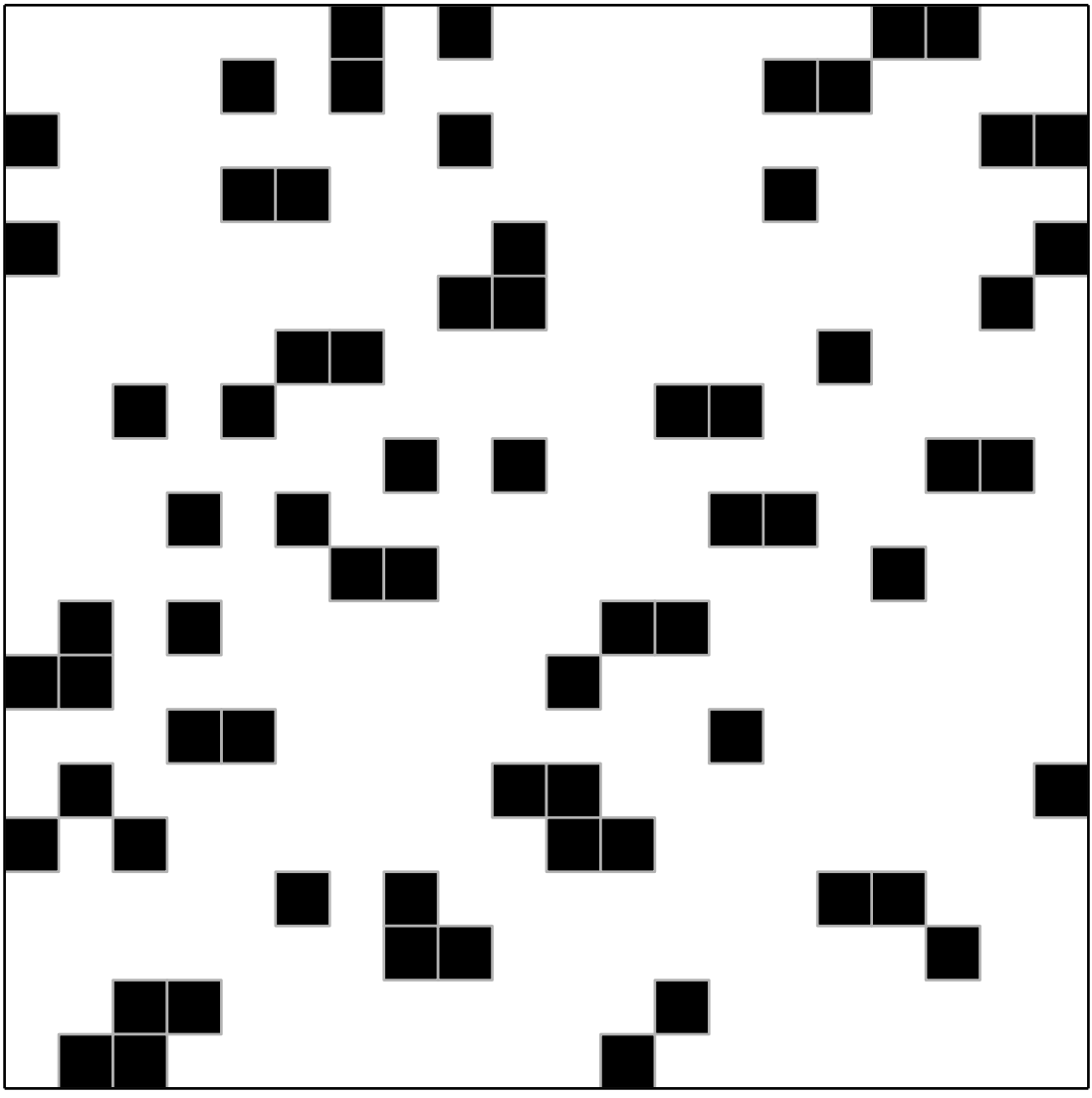


lib3_ku-08 20x20 (70) con: 10, var: 10

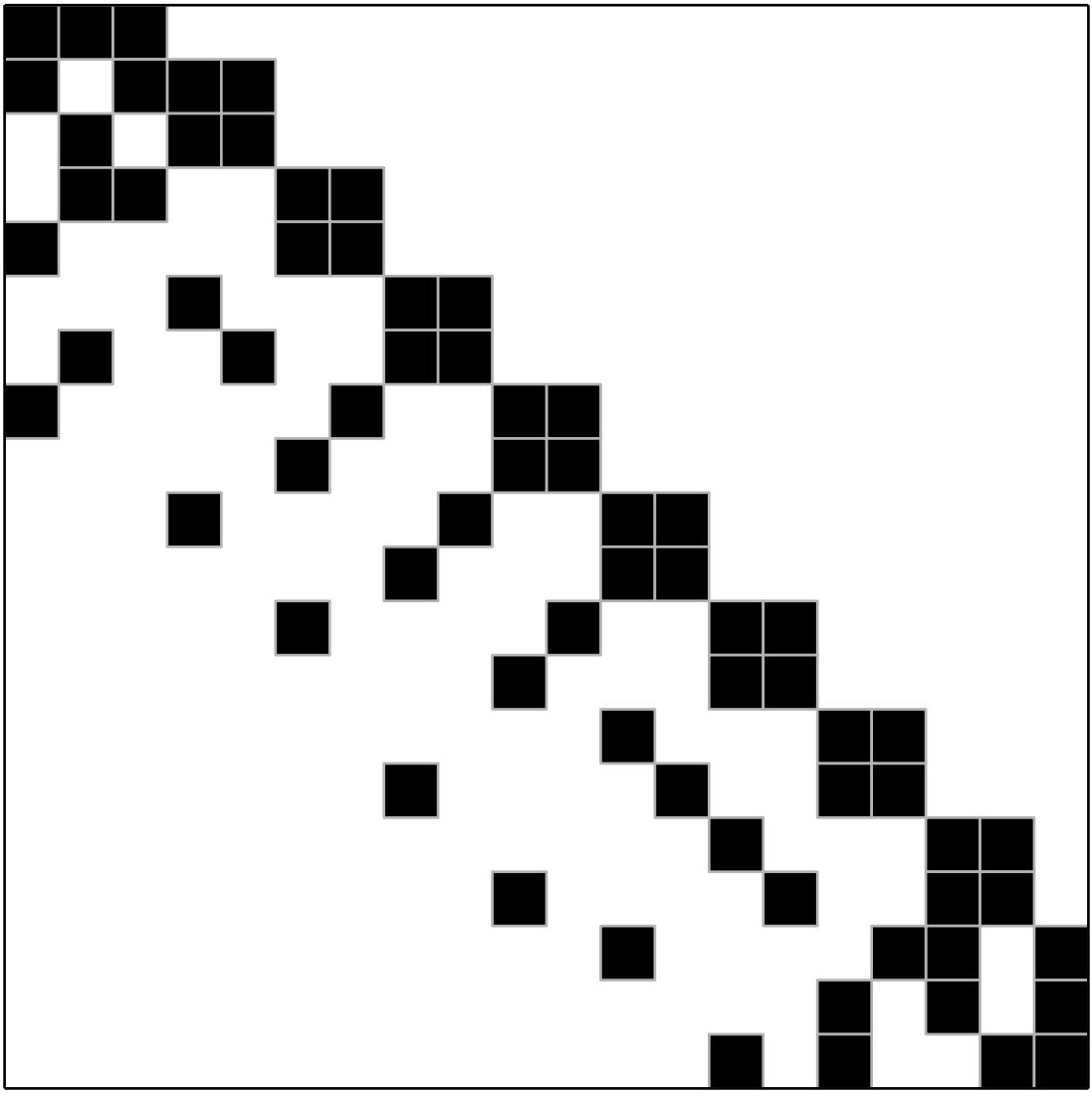


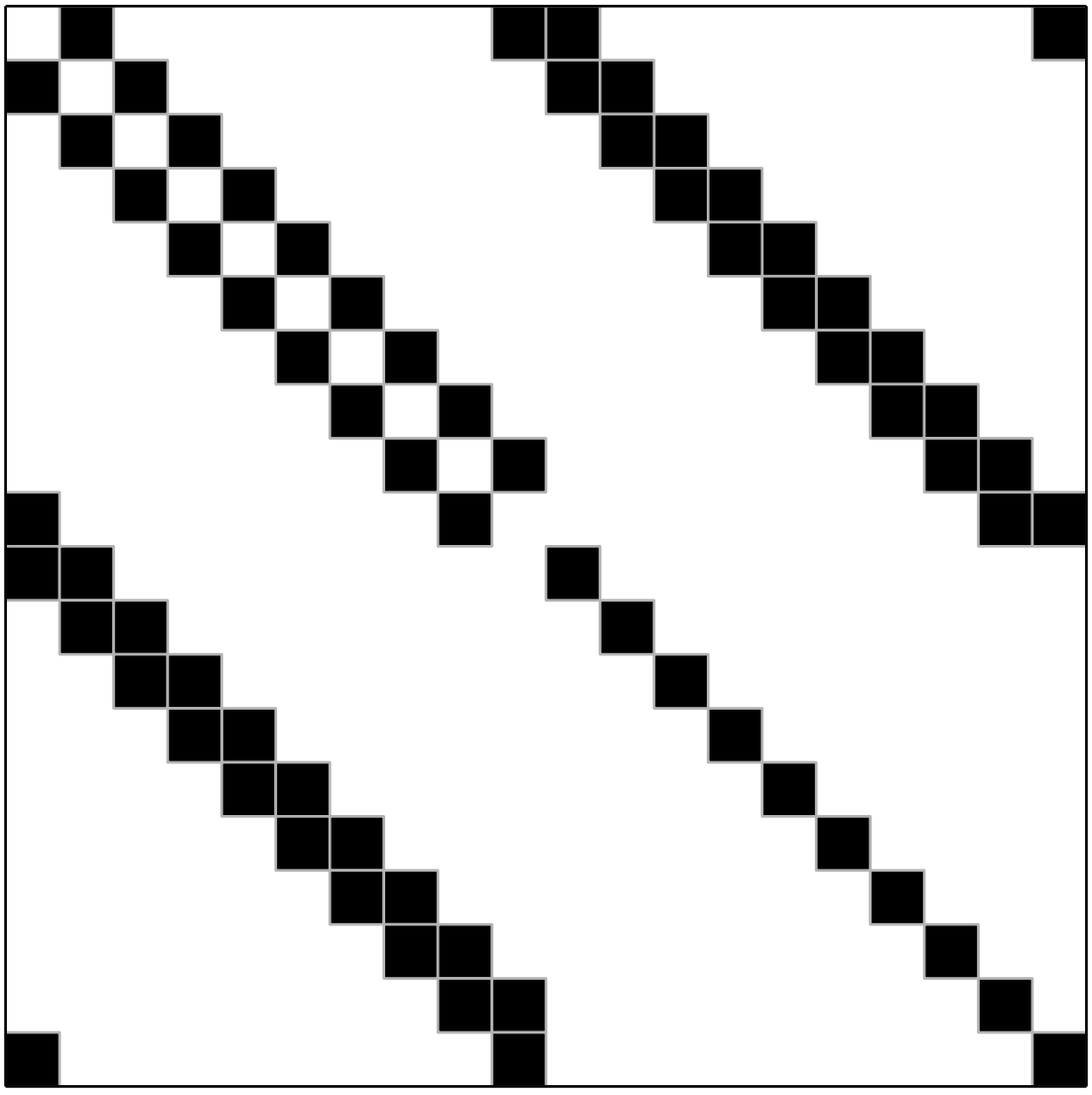

lib3_ku-08, cost: 10, diff: 10, explored: 629, time: 0.25s

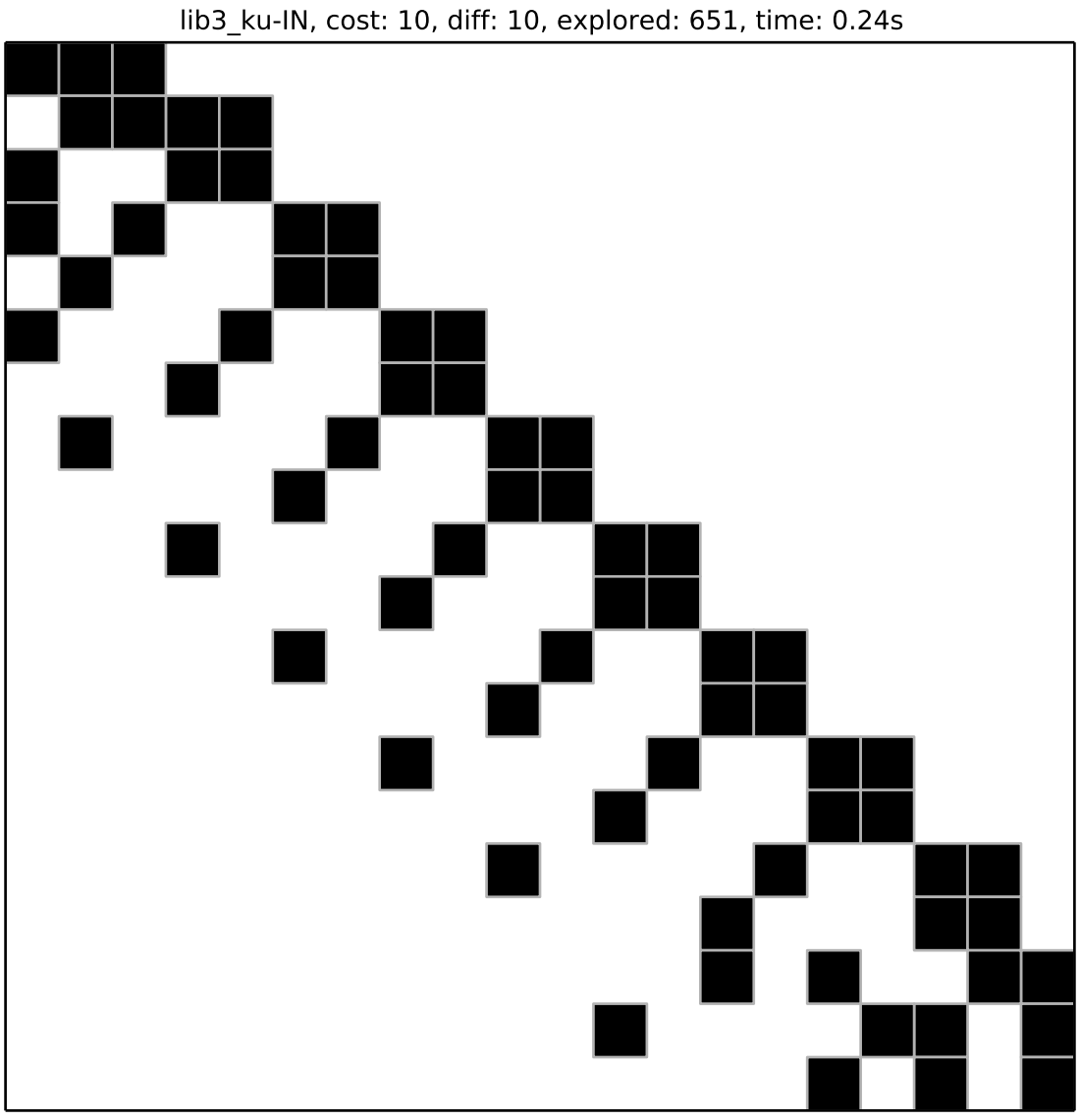
lib3_ku-09 20x20 (70) con: 10, var: 10

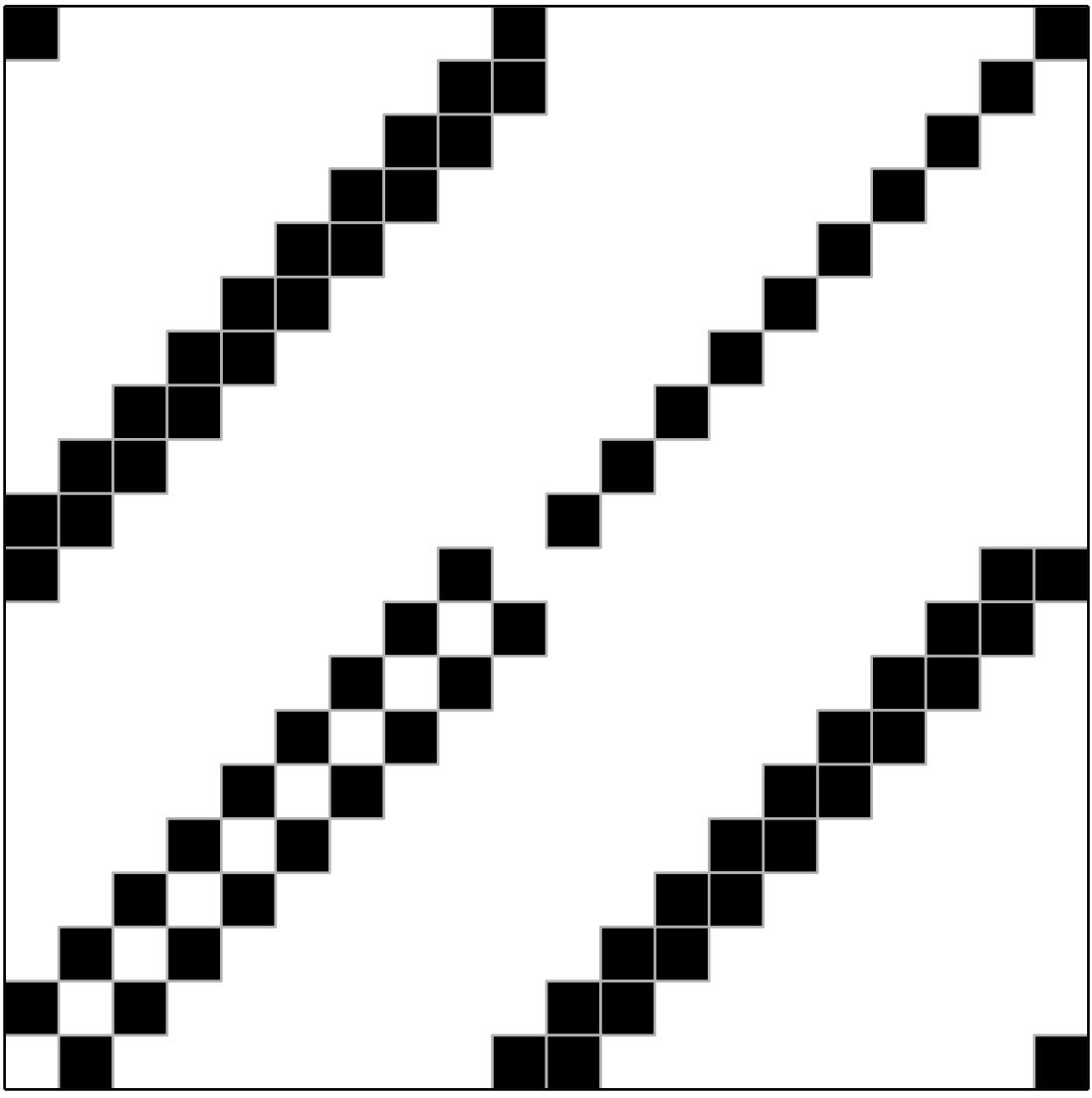


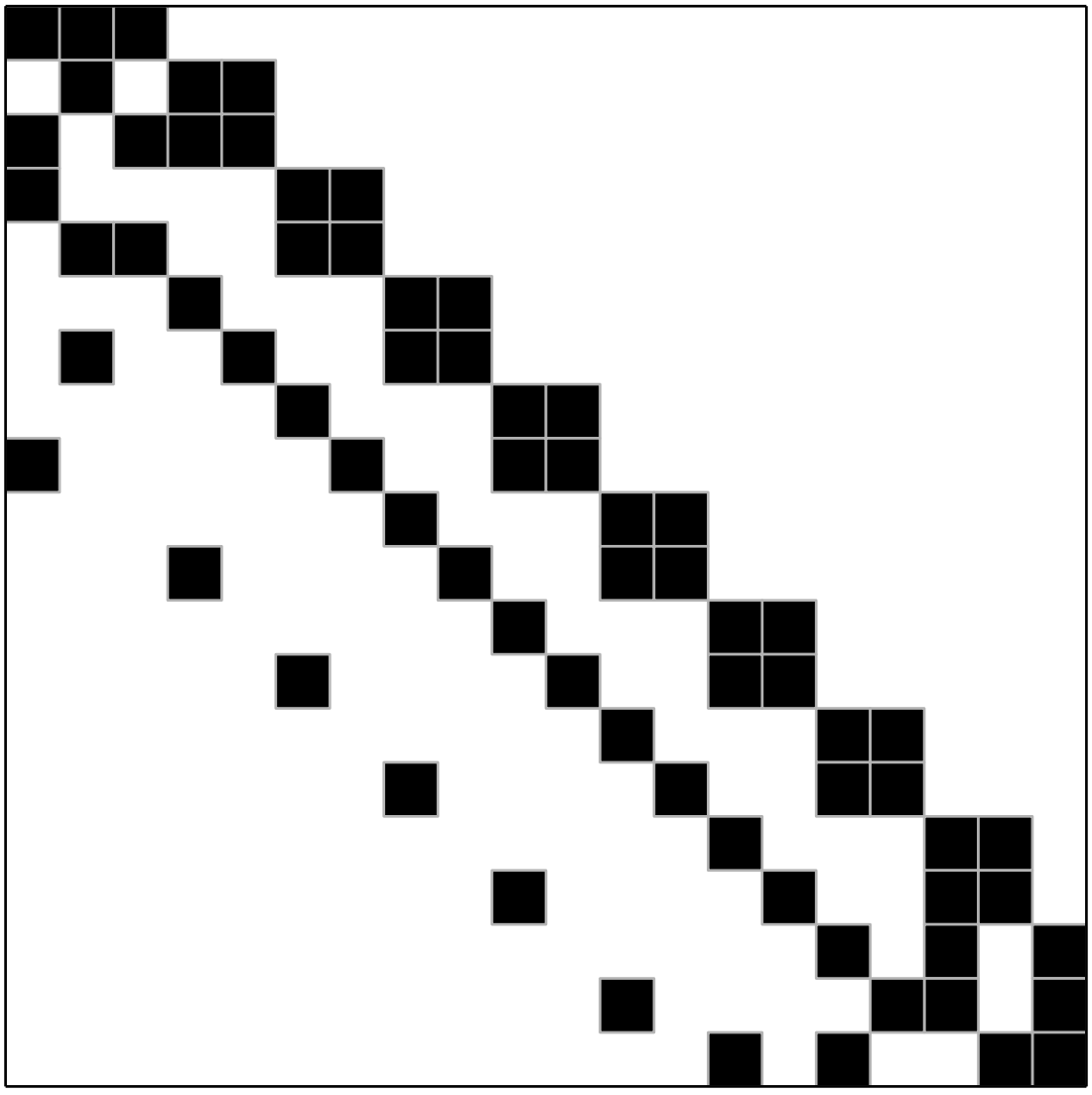
lib3_ku-09, cost: 10, diff: 10, explored: 635, time: 0.23s



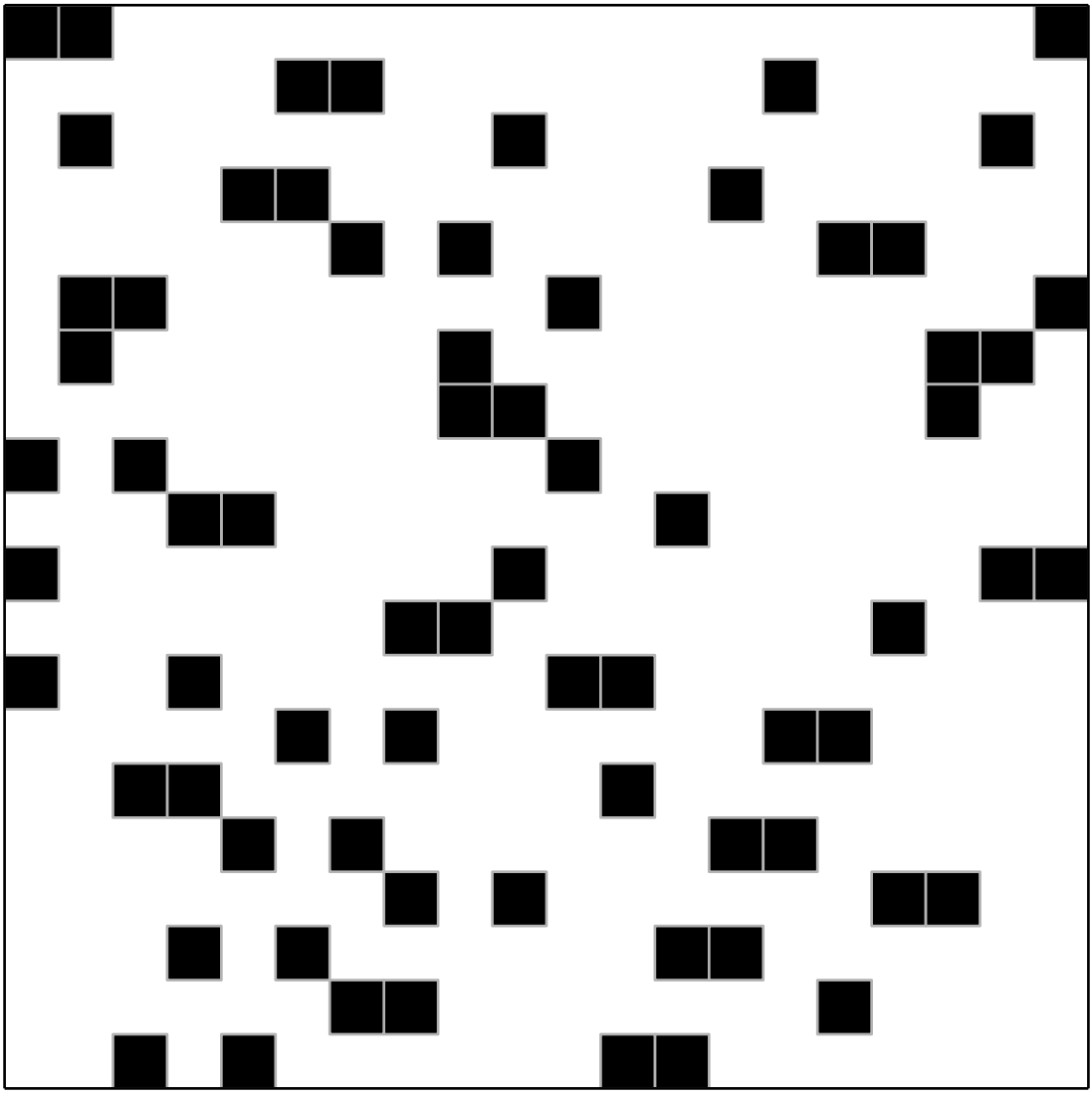

lib3_ku-IN 20x20 (70) con: 10, var: 10

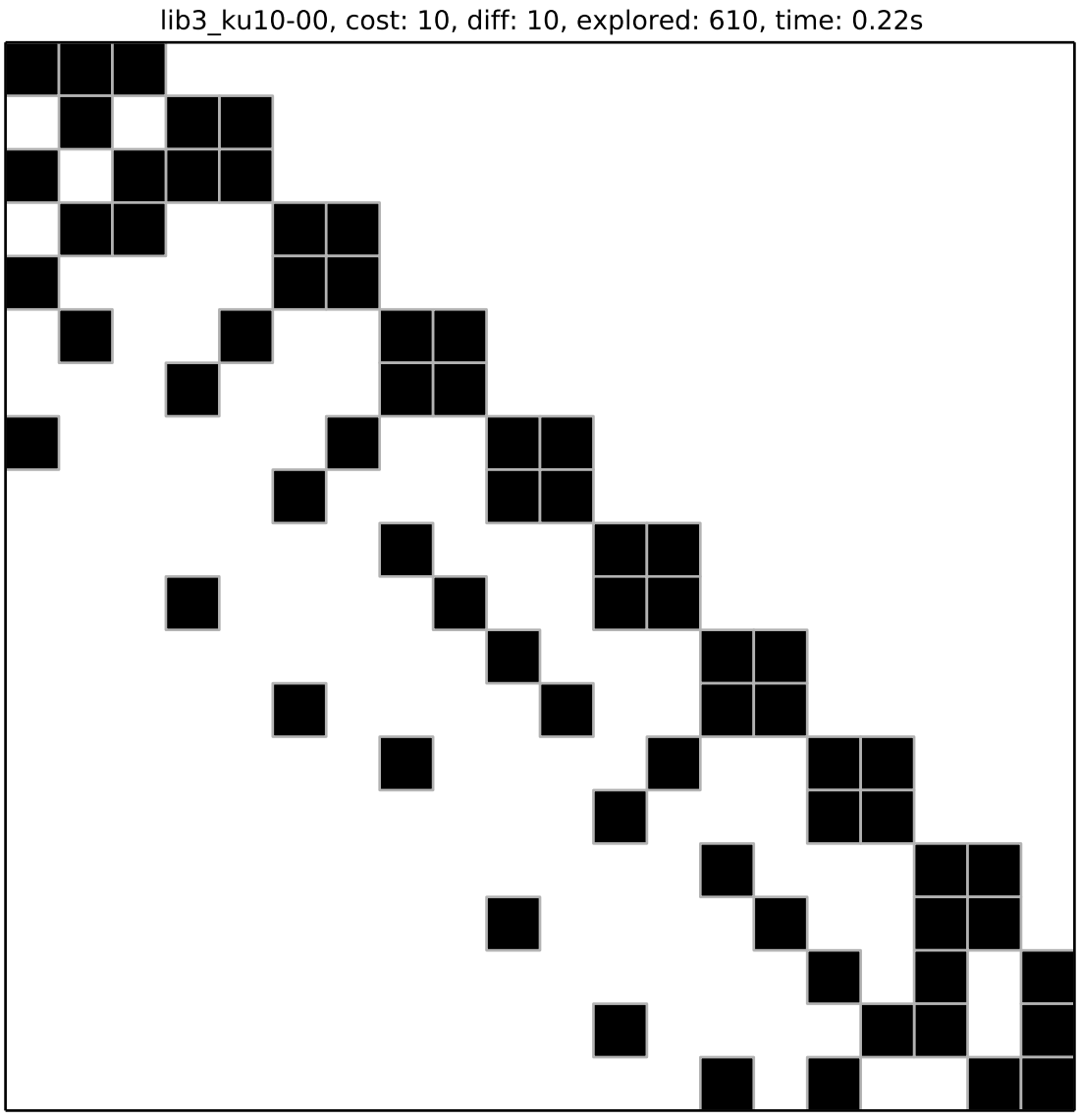

lib3_ku-IN, cost: 10, diff: 10, explored: 651, time: 0.24s


lib3_ku-RE 20x20 (70) con: 10, var: 10

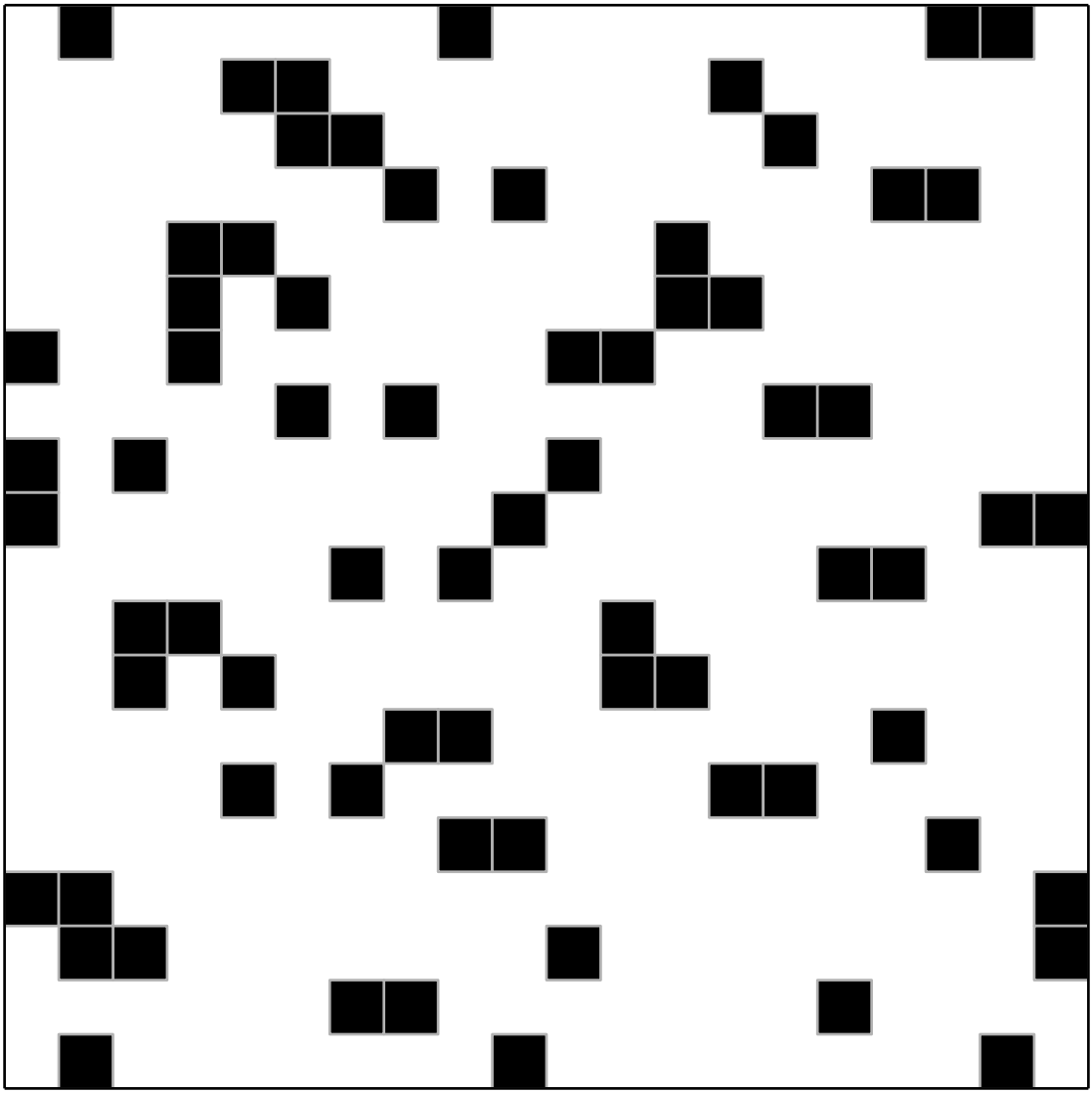

lib3_ku-RE, cost: 10, diff: 10, explored: 629, time: 0.23s

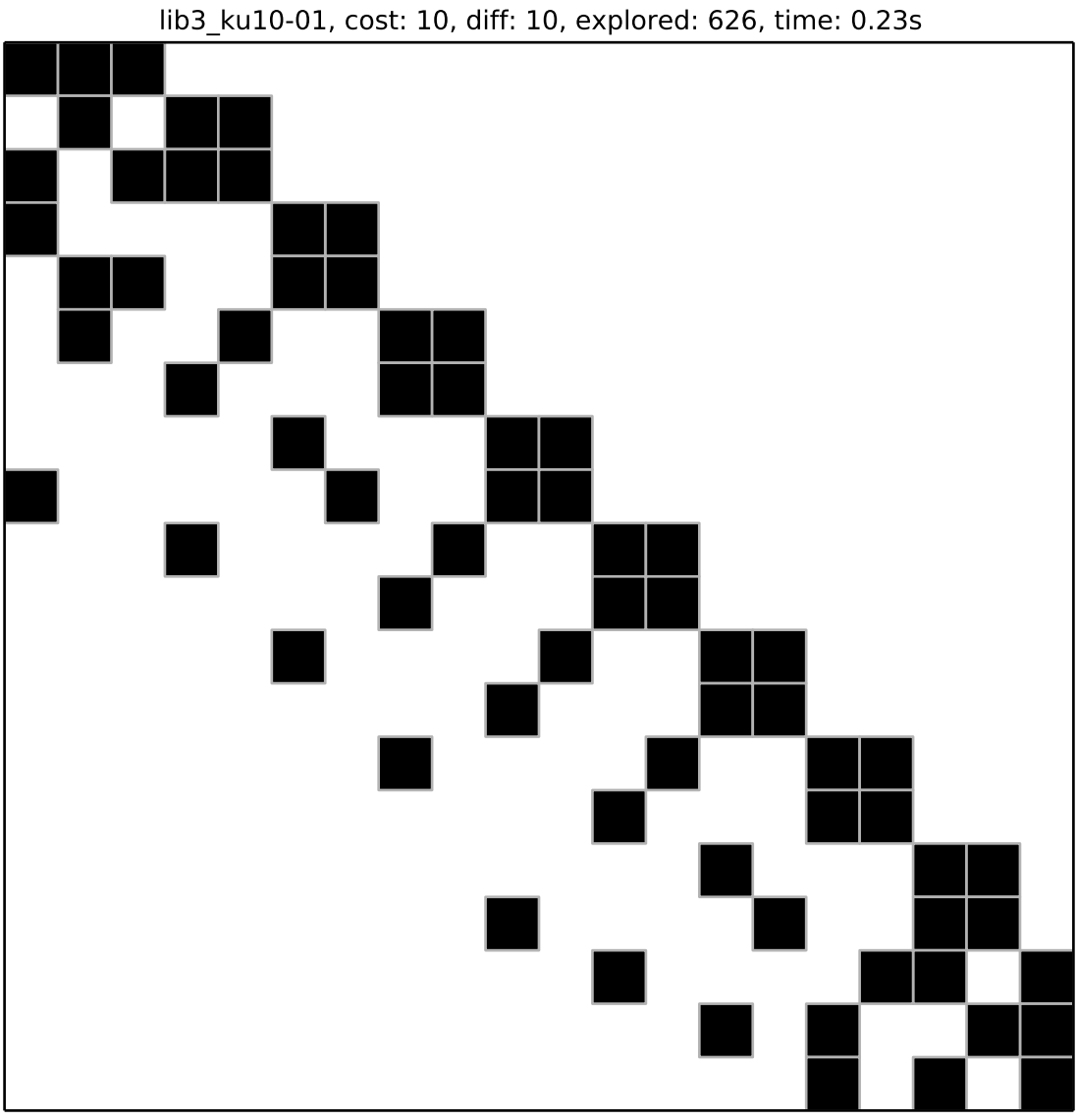
lib3_ku10-00 20x20 (70) con: 10, var: 10

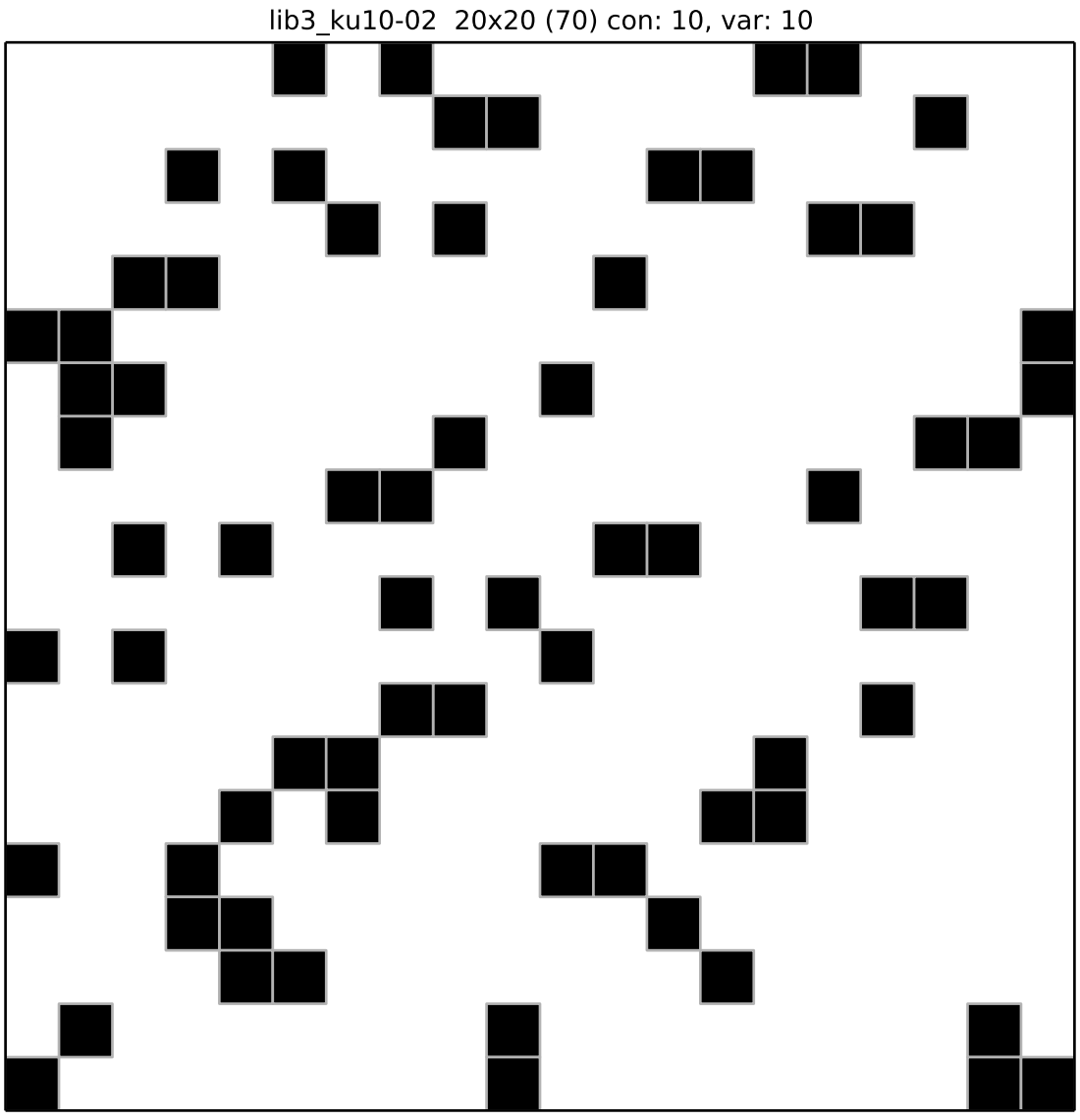


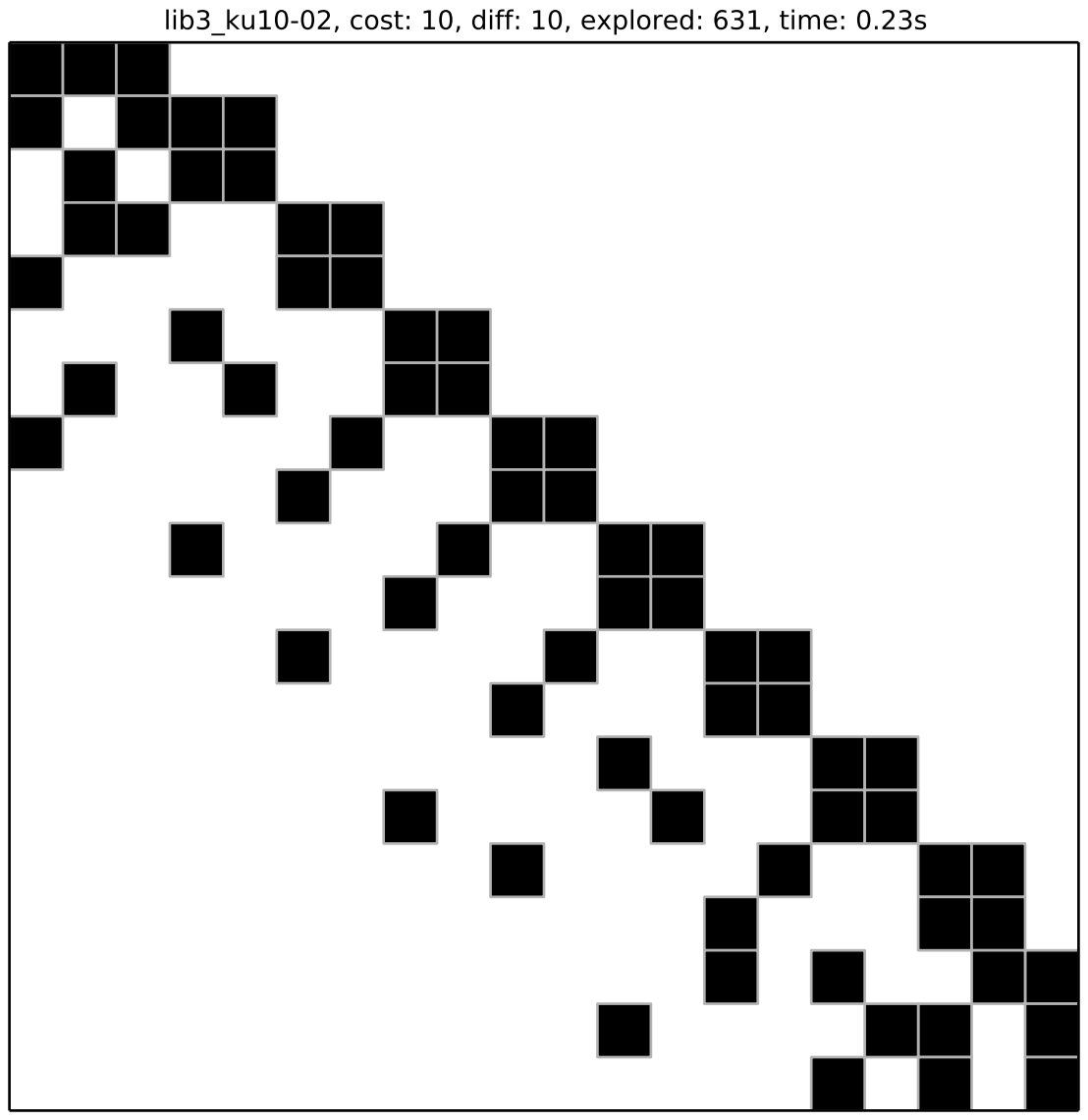

lib3_ku10-00, cost: 10, diff: 10, explored: 610, time: 0.22s

lib3_ku10-01 20x20 (70) con: 10, var: 10

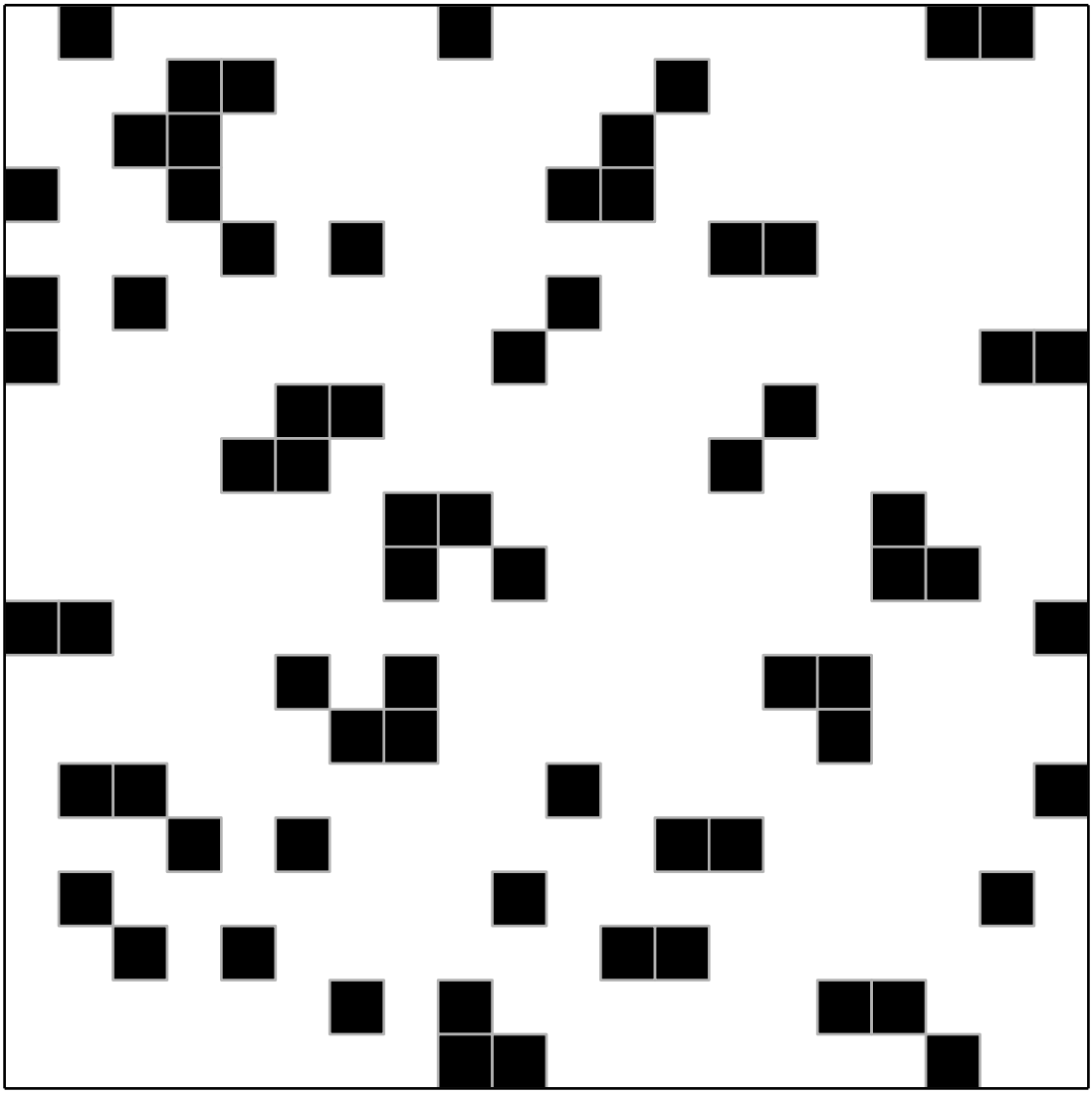


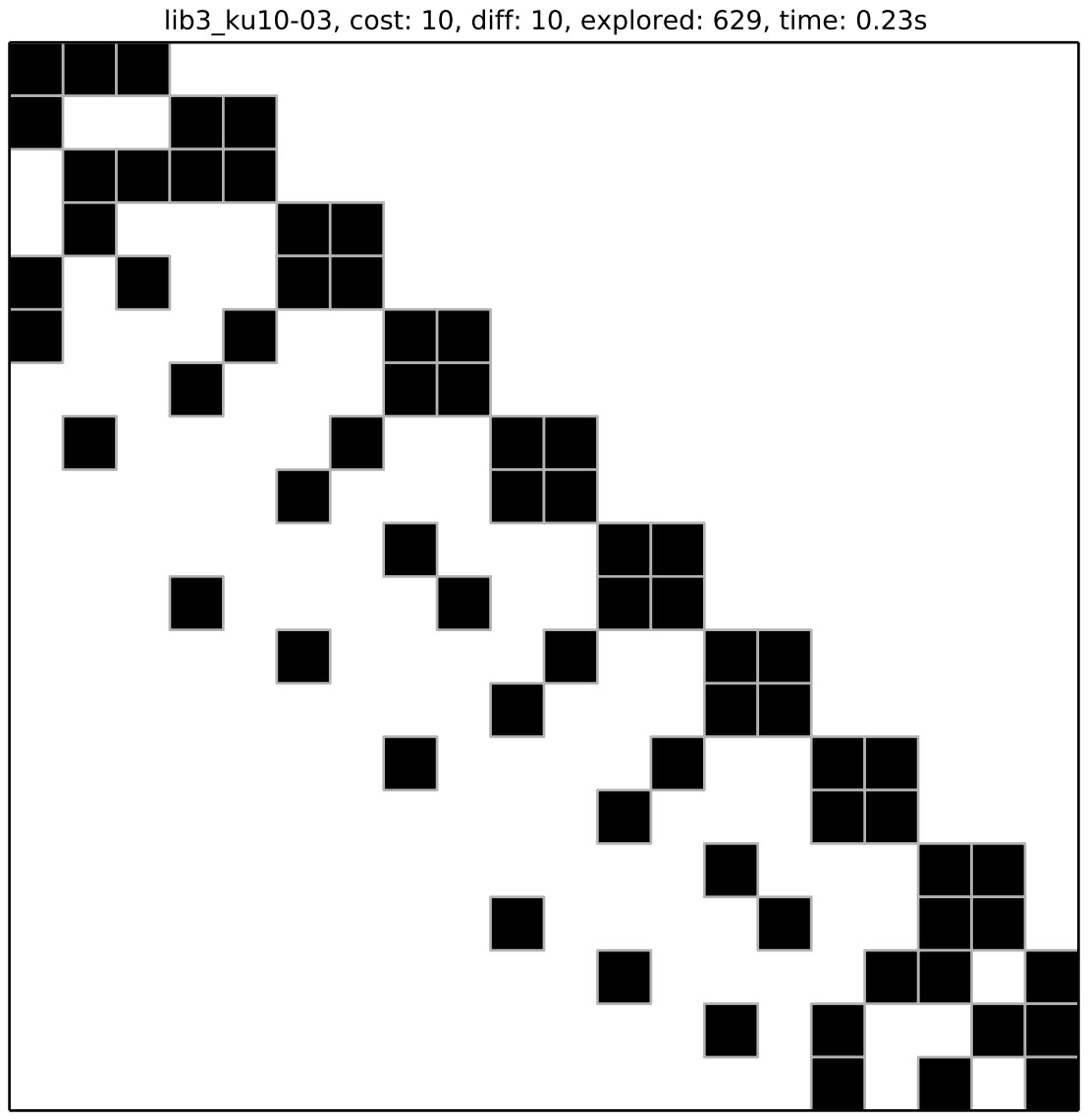

lib3_ku10-01, cost: 10, diff: 10, explored: 626, time: 0.23s

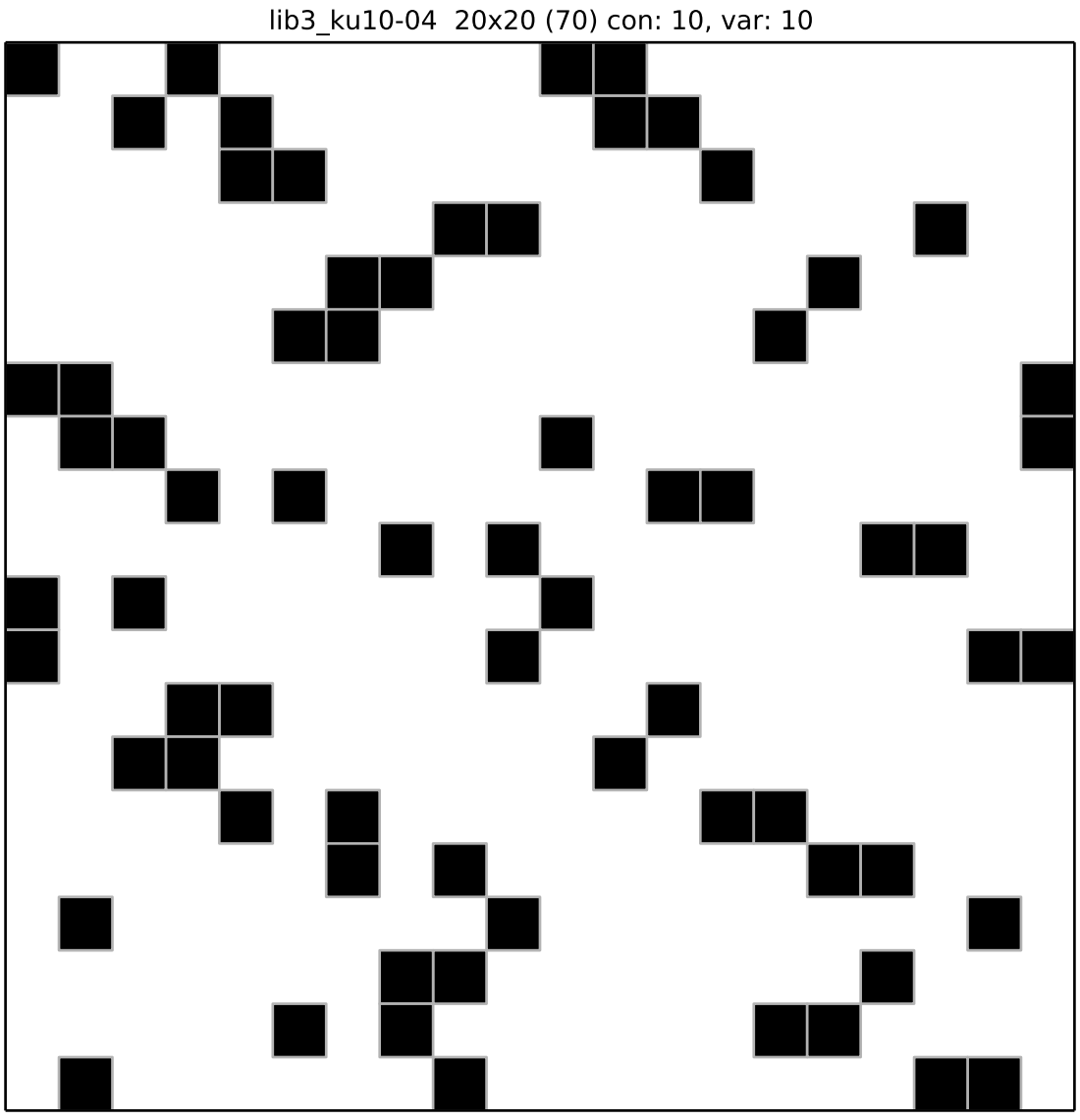

lib3_ku10-02 20x20 (70) con: 10, var: 10


lib3_ku10-02, cost: 10, diff: 10, explored: 631, time: 0.23s

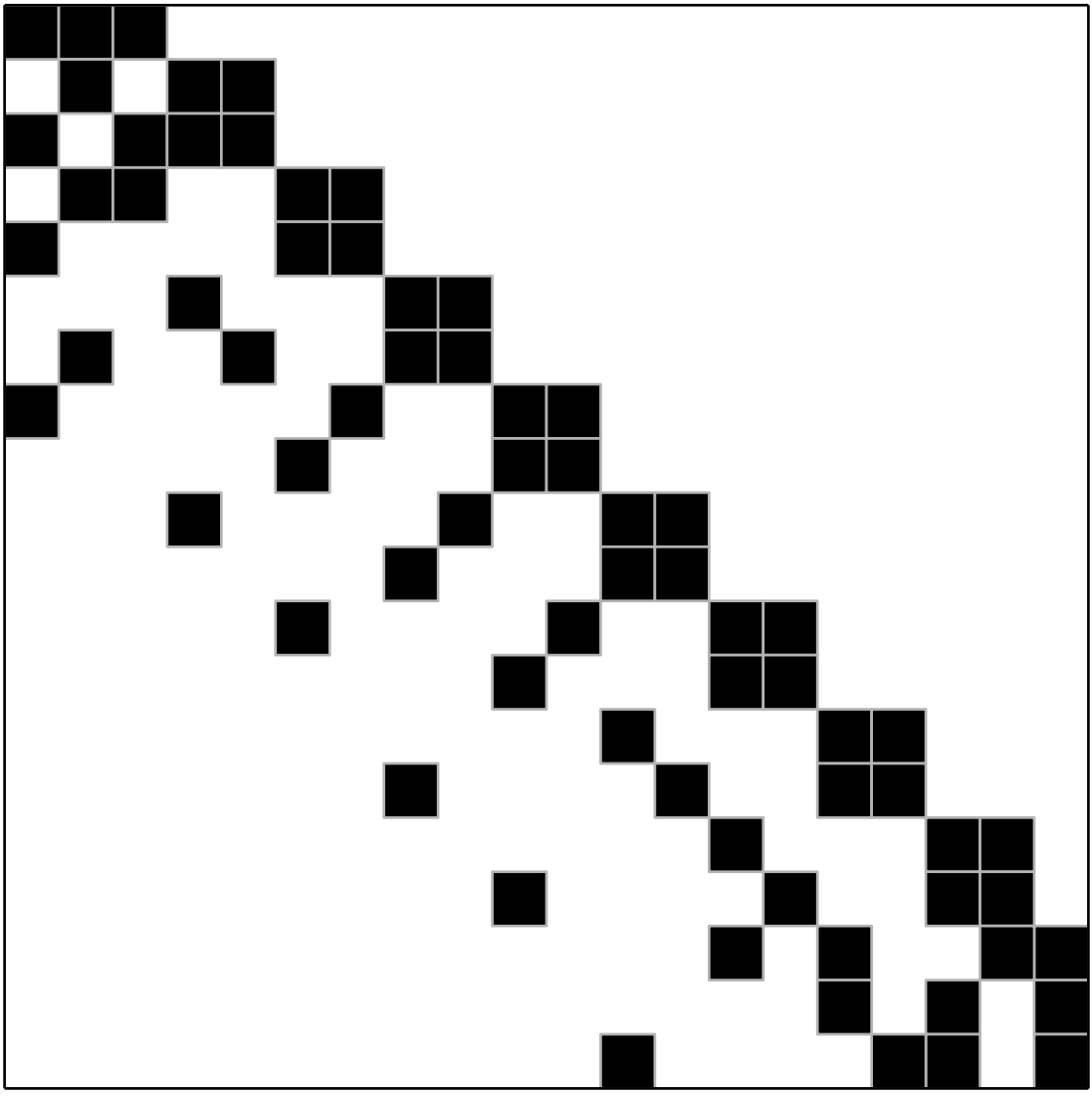
lib3_ku10-03 20x20 (70) con: 10, var: 10

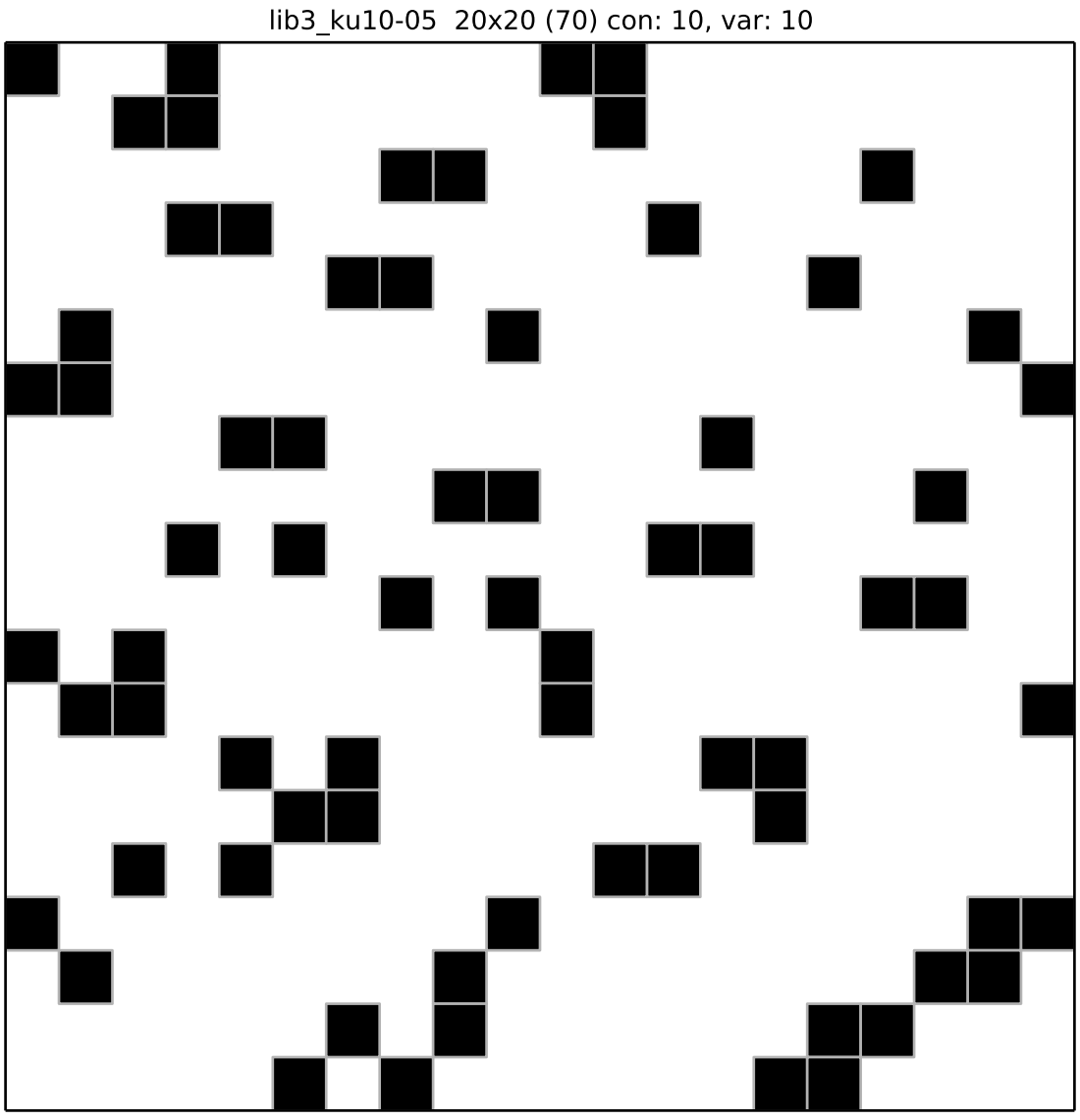


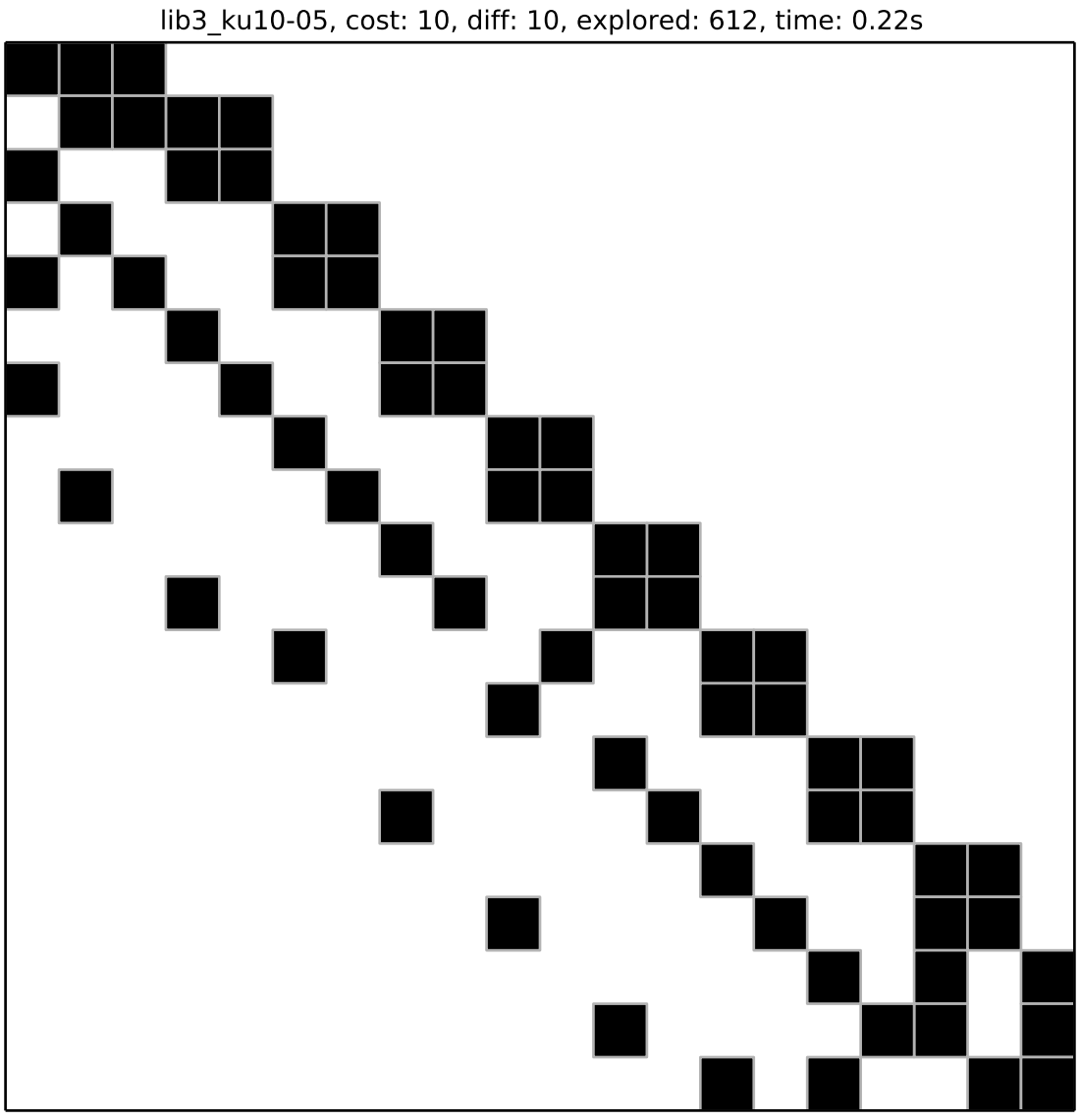

lib3_ku10-03, cost: 10, diff: 10, explored: 629, time: 0.23s

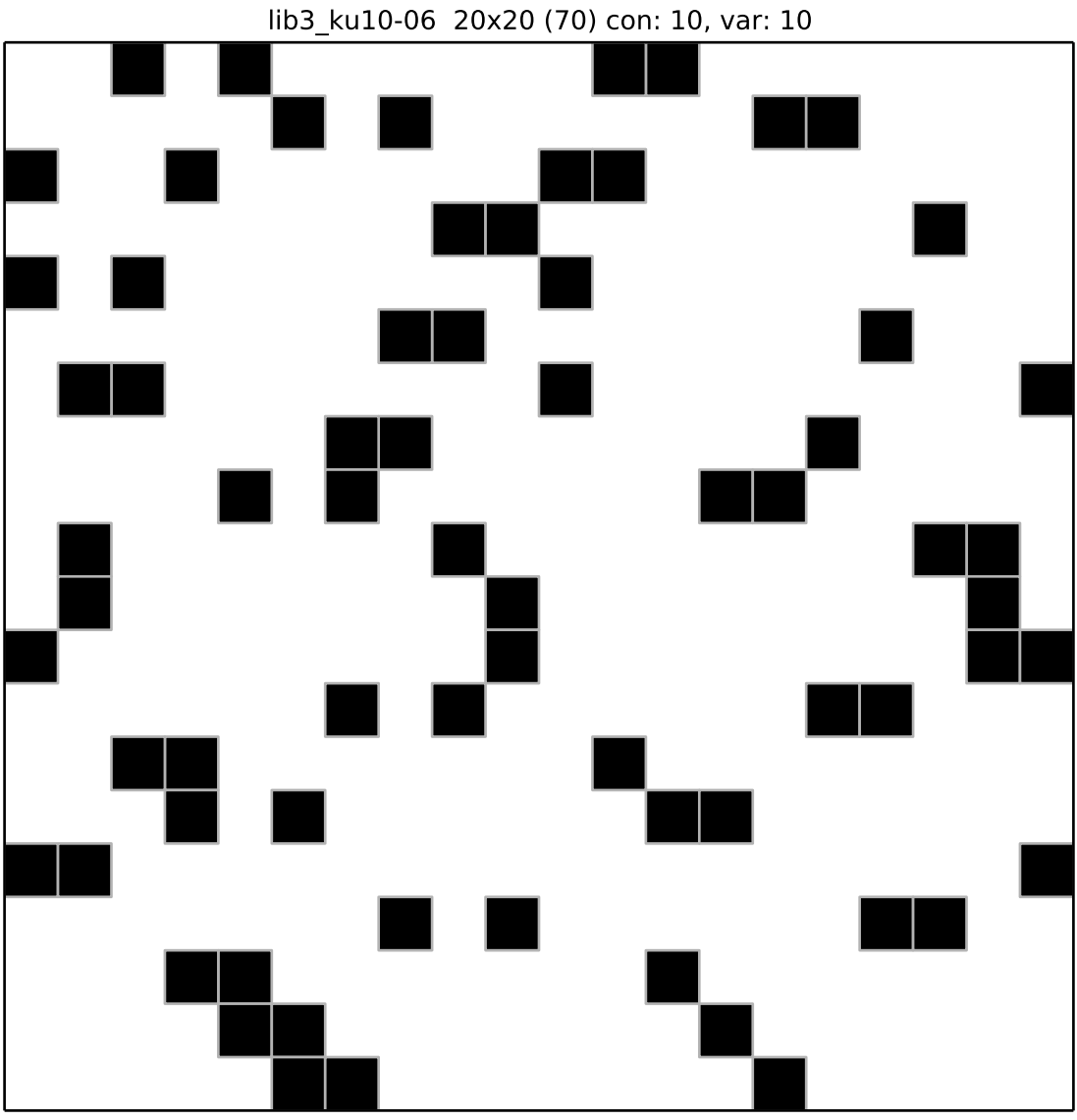

lib3_ku10-04 20x20 (70) con: 10, var: 10

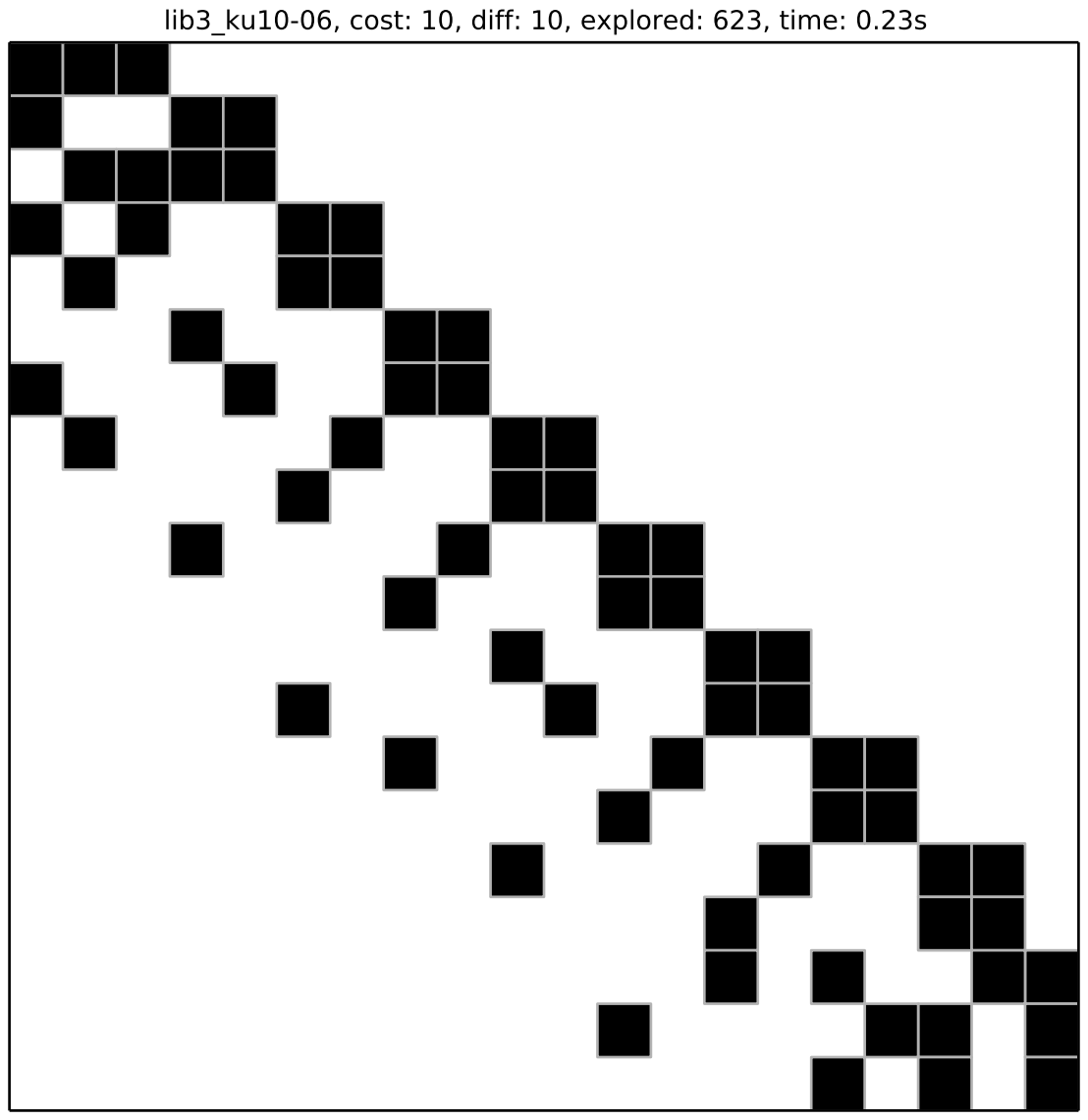
lib3_ku10-04, cost: 10, diff: 10, explored: 626, time: 0.23s




lib3_ku10-05 20x20 (70) con: 10, var: 10


lib3_ku10-05, cost: 10, diff: 10, explored: 612, time: 0.22s


lib3_ku10-06 20x20 (70) con: 10, var: 10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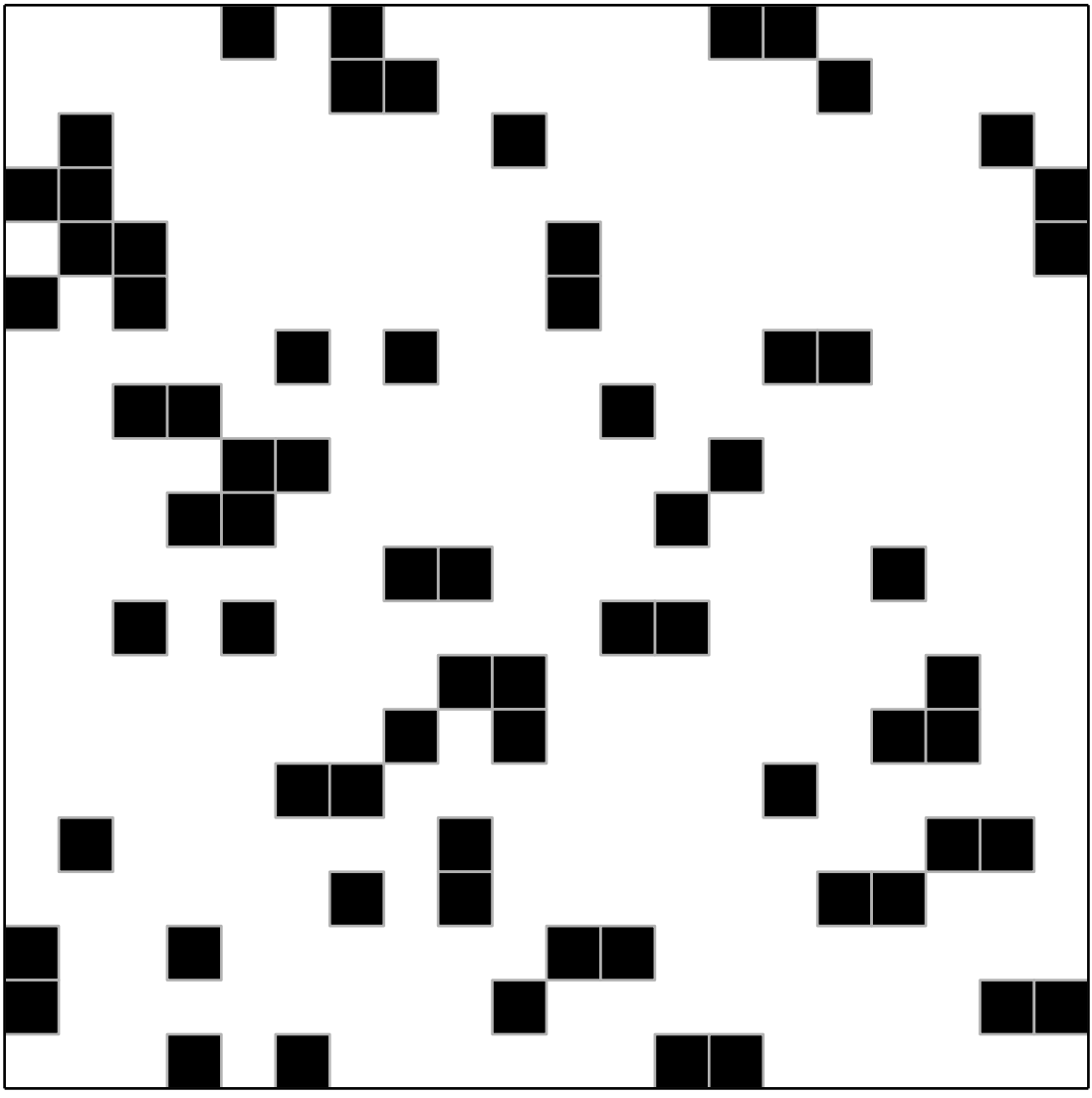
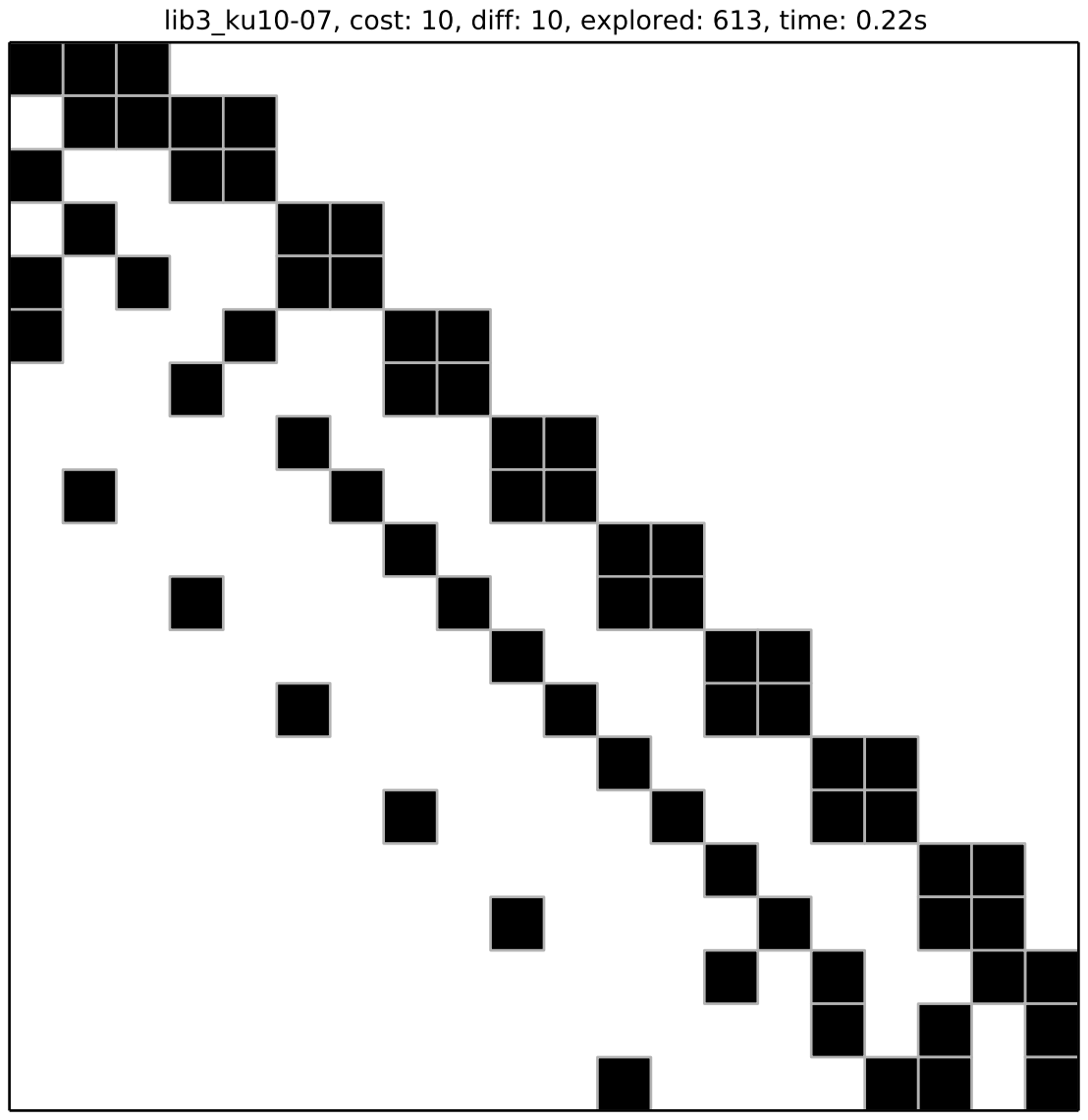
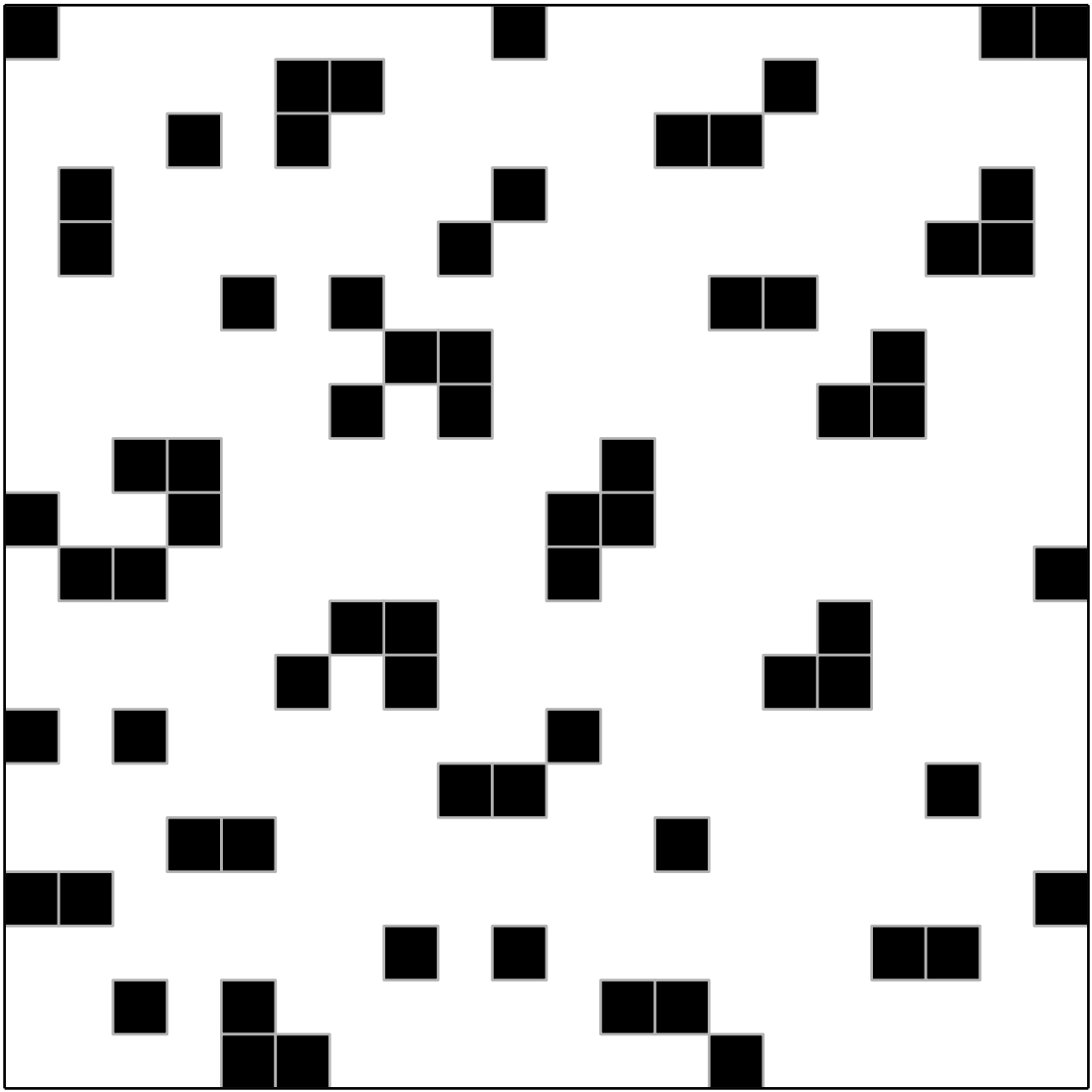
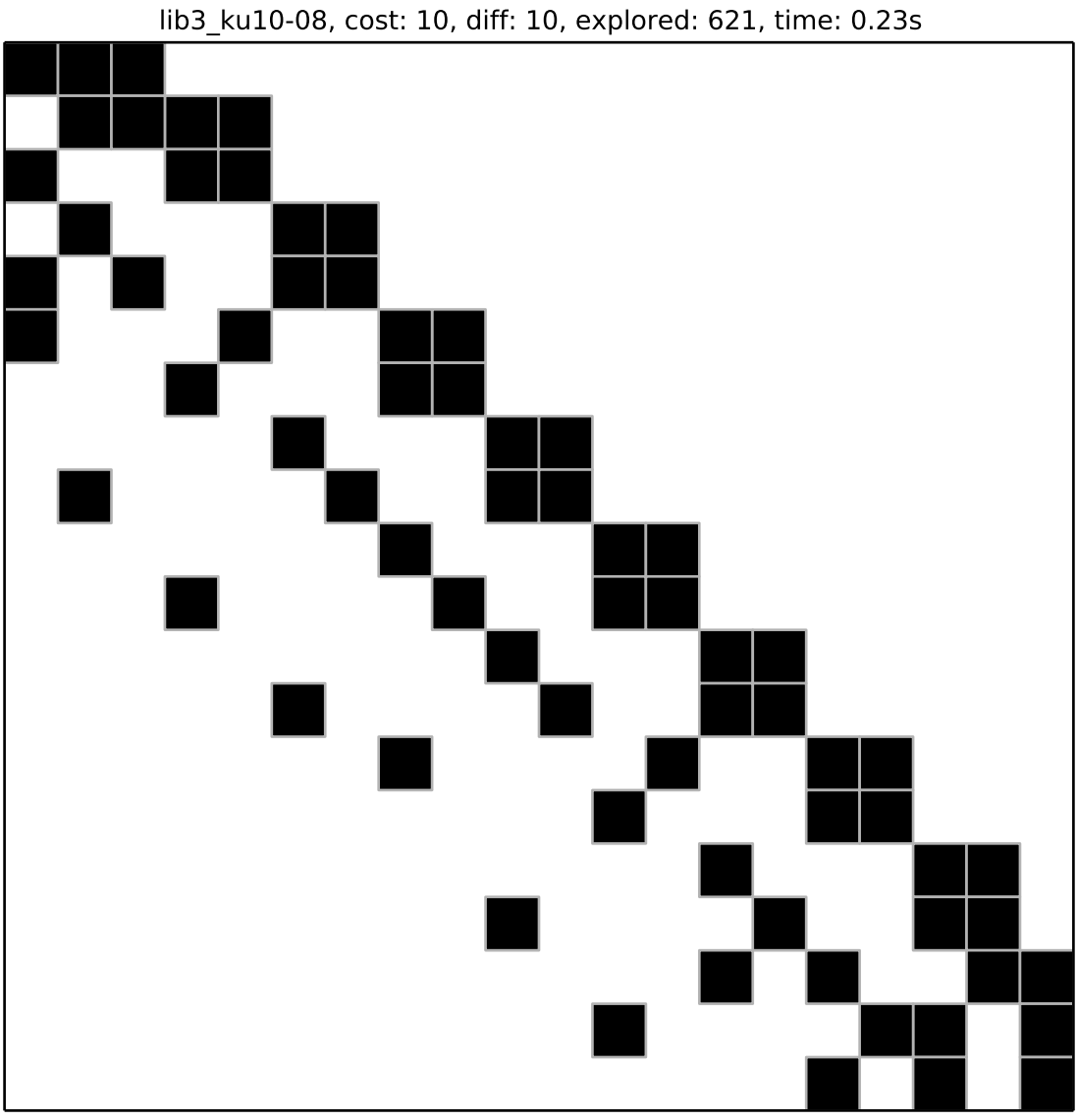
lib3_ku10-07 20x20 (70) con: 10, var: 10



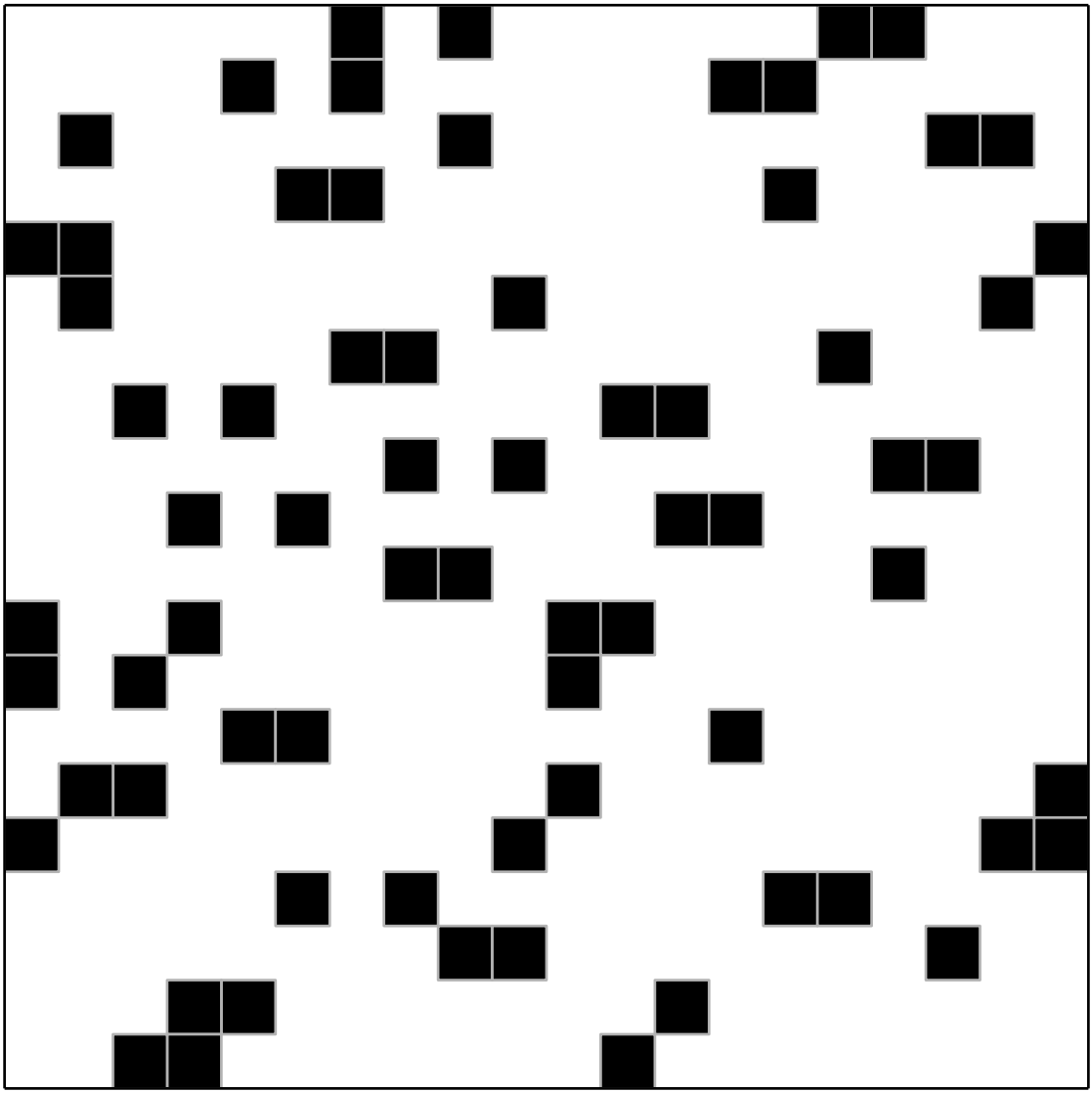

lib3_ku10-07, cost: 10, diff: 10, explored: 613, time: 0.22s

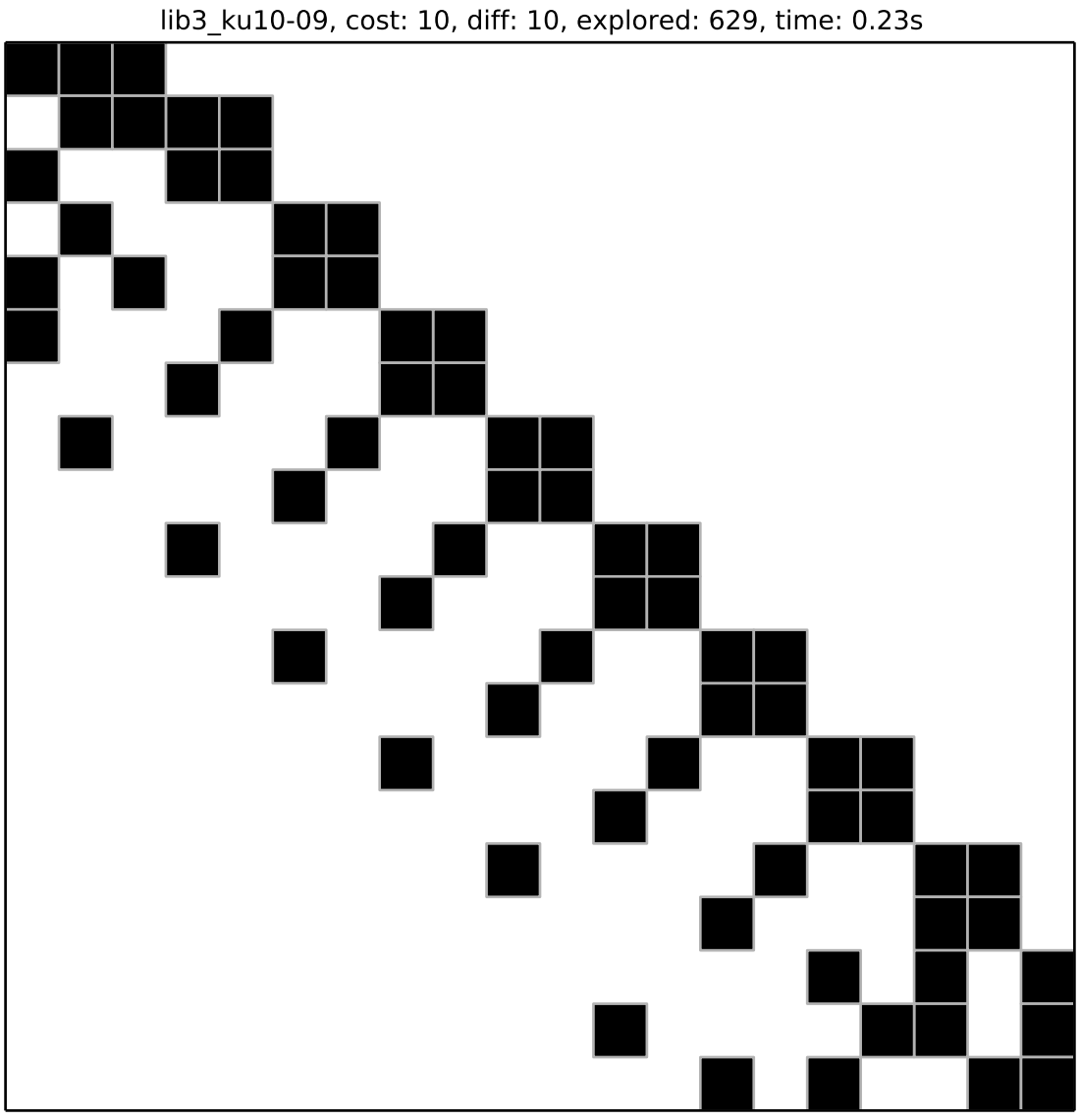
lib3_ku10-08 20x20 (70) con: 10, var: 10

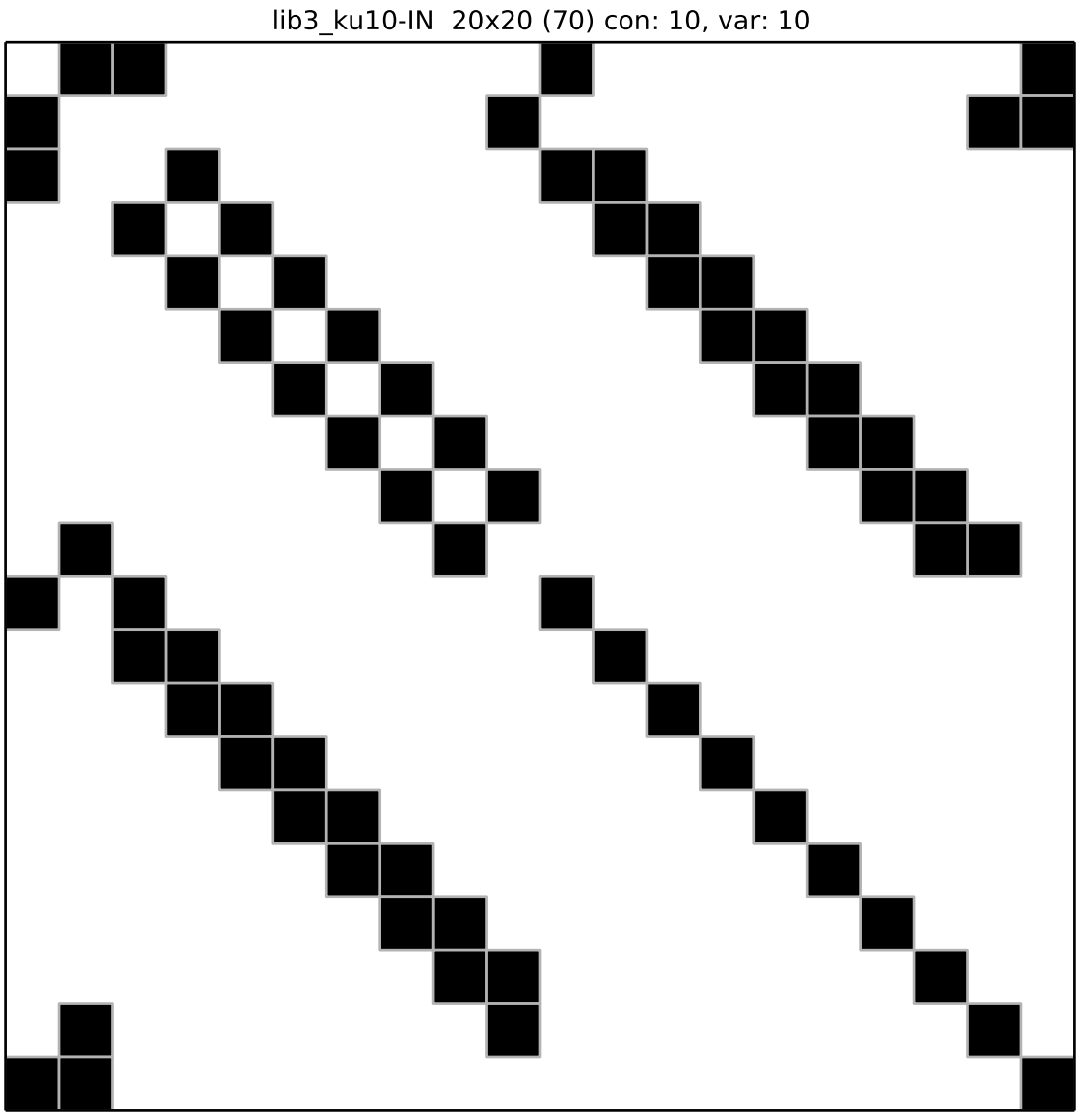


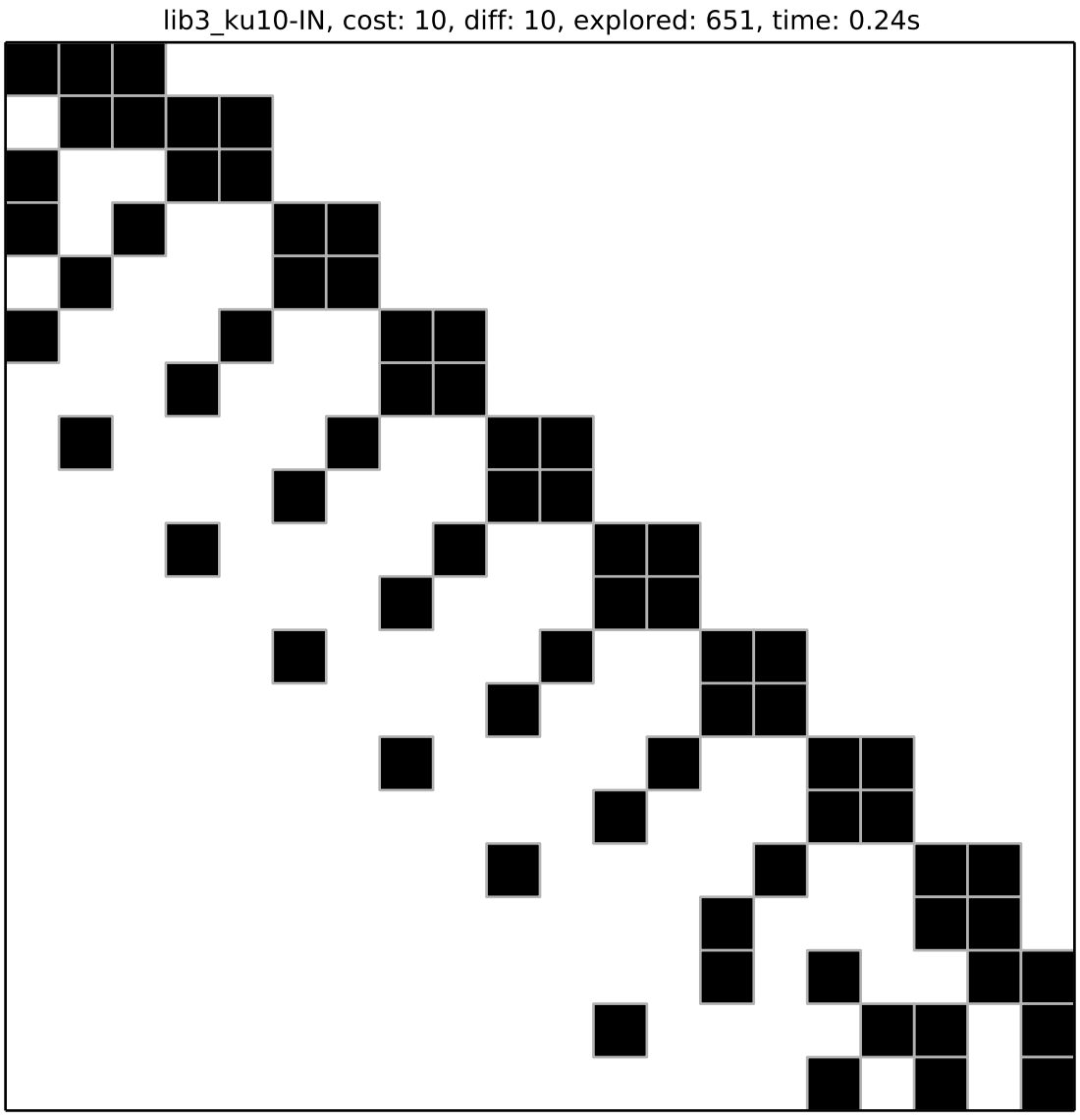

lib3_ku10-08, cost: 10, diff: 10, explored: 621, time: 0.23s

lib3_ku10-09 20x20 (70) con: 10, var: 10

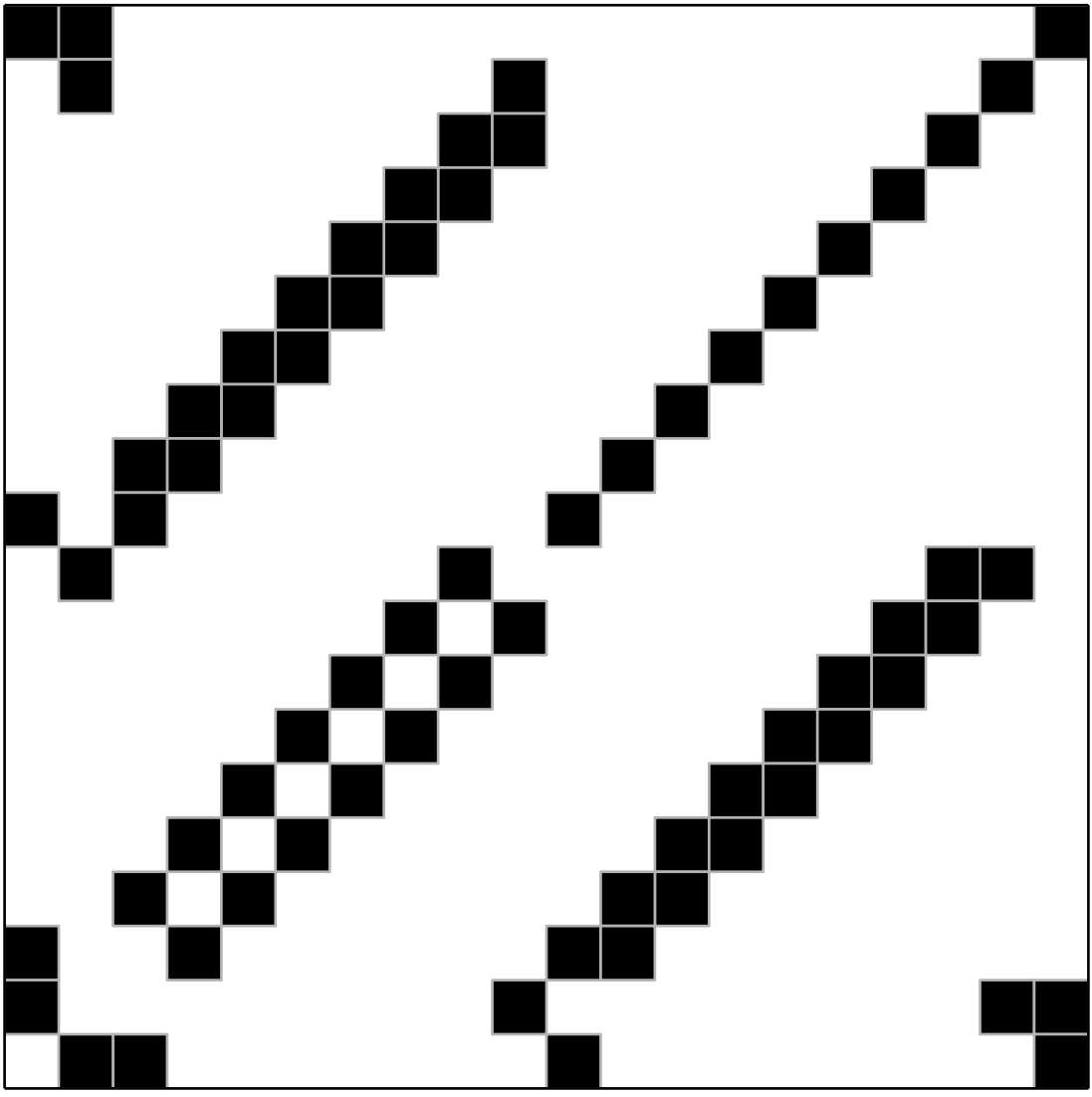


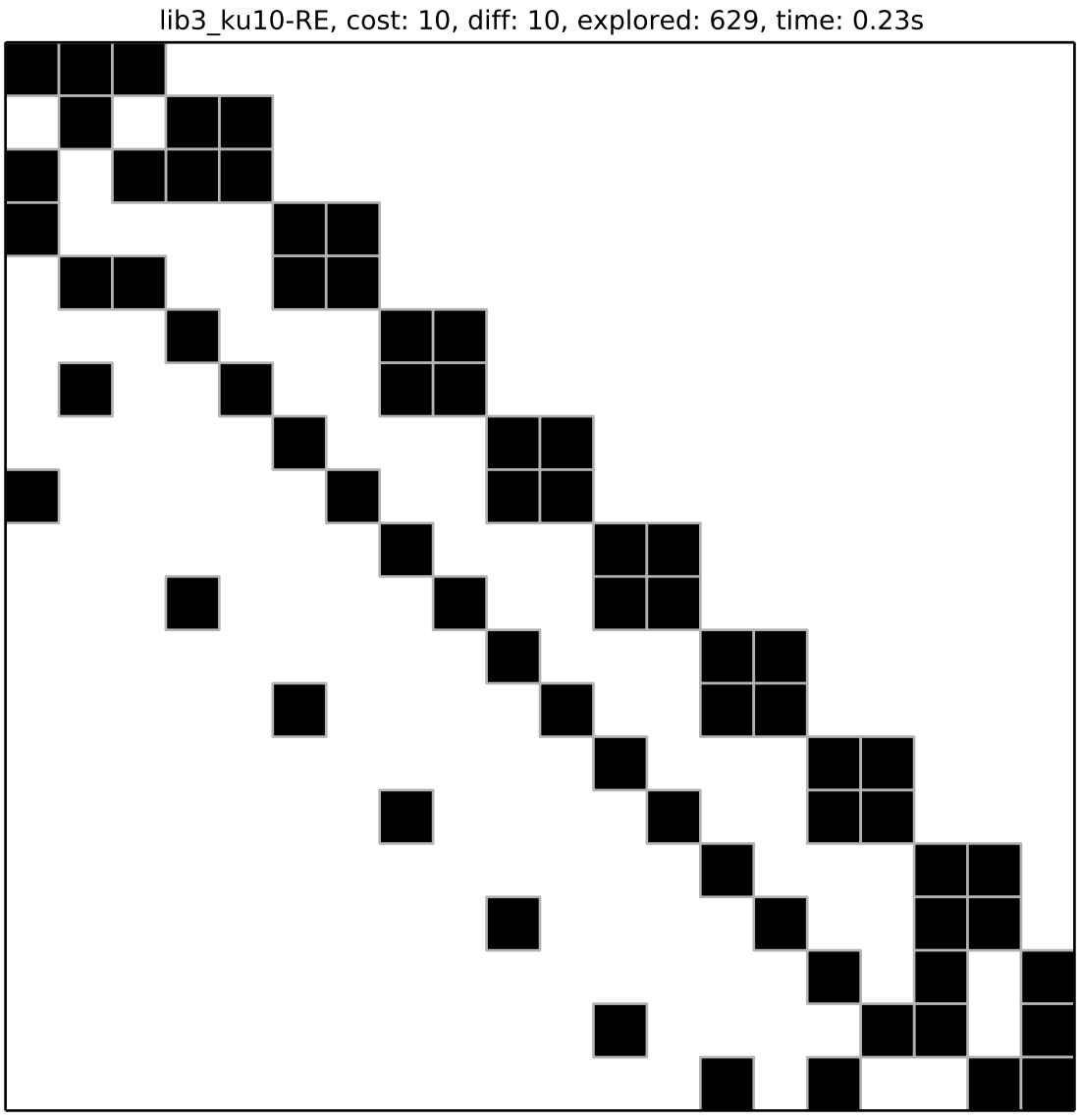

lib3_ku10-09, cost: 10, diff: 10, explored: 629, time: 0.23s


lib3_ku10-IN 20x20 (70) con: 10, var: 10


lib3_ku10-IN, cost: 10, diff: 10, explored: 651, time: 0.24s

lib3_ku10-RE 20x20 (70) con: 10, var: 10

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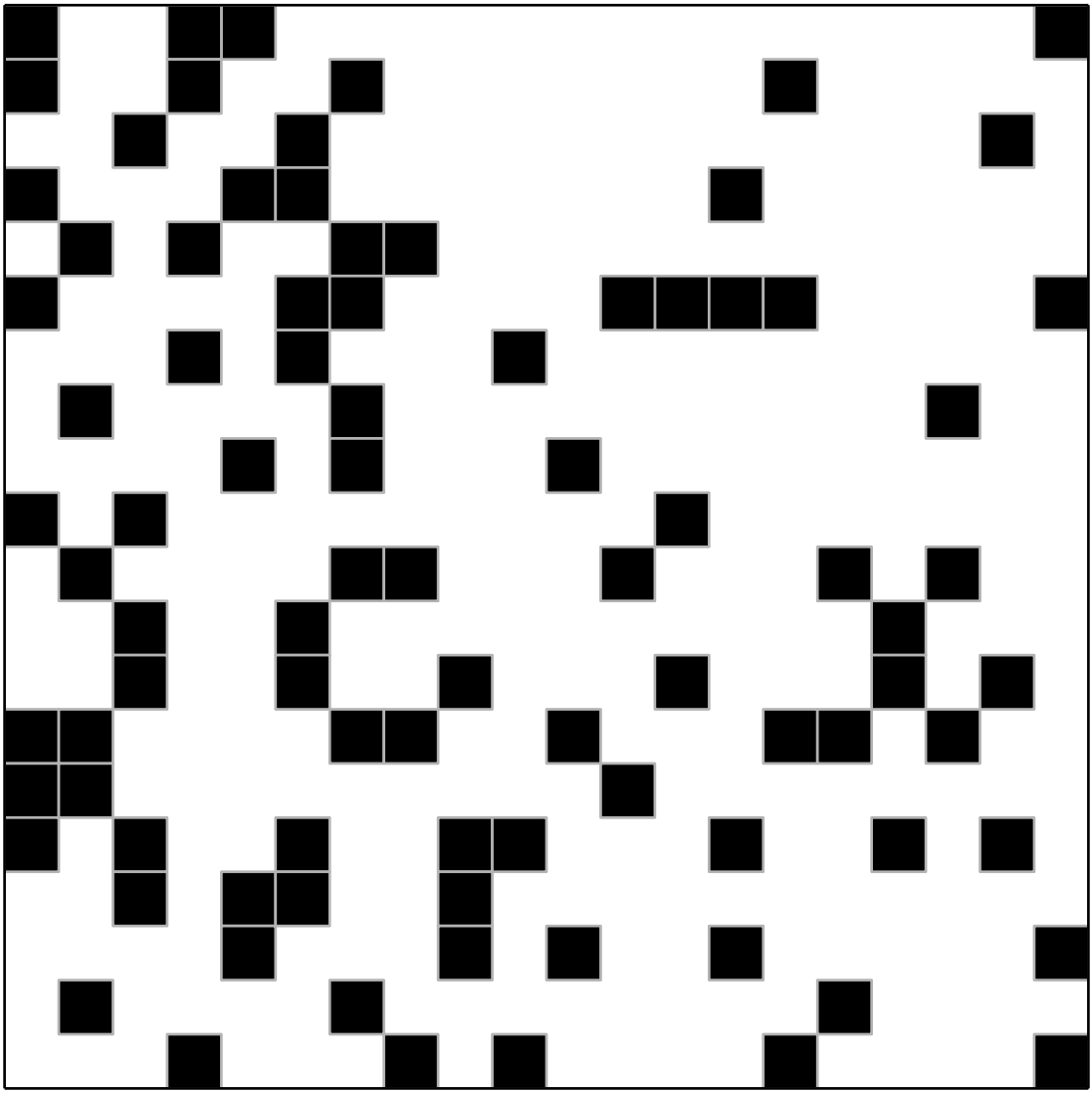
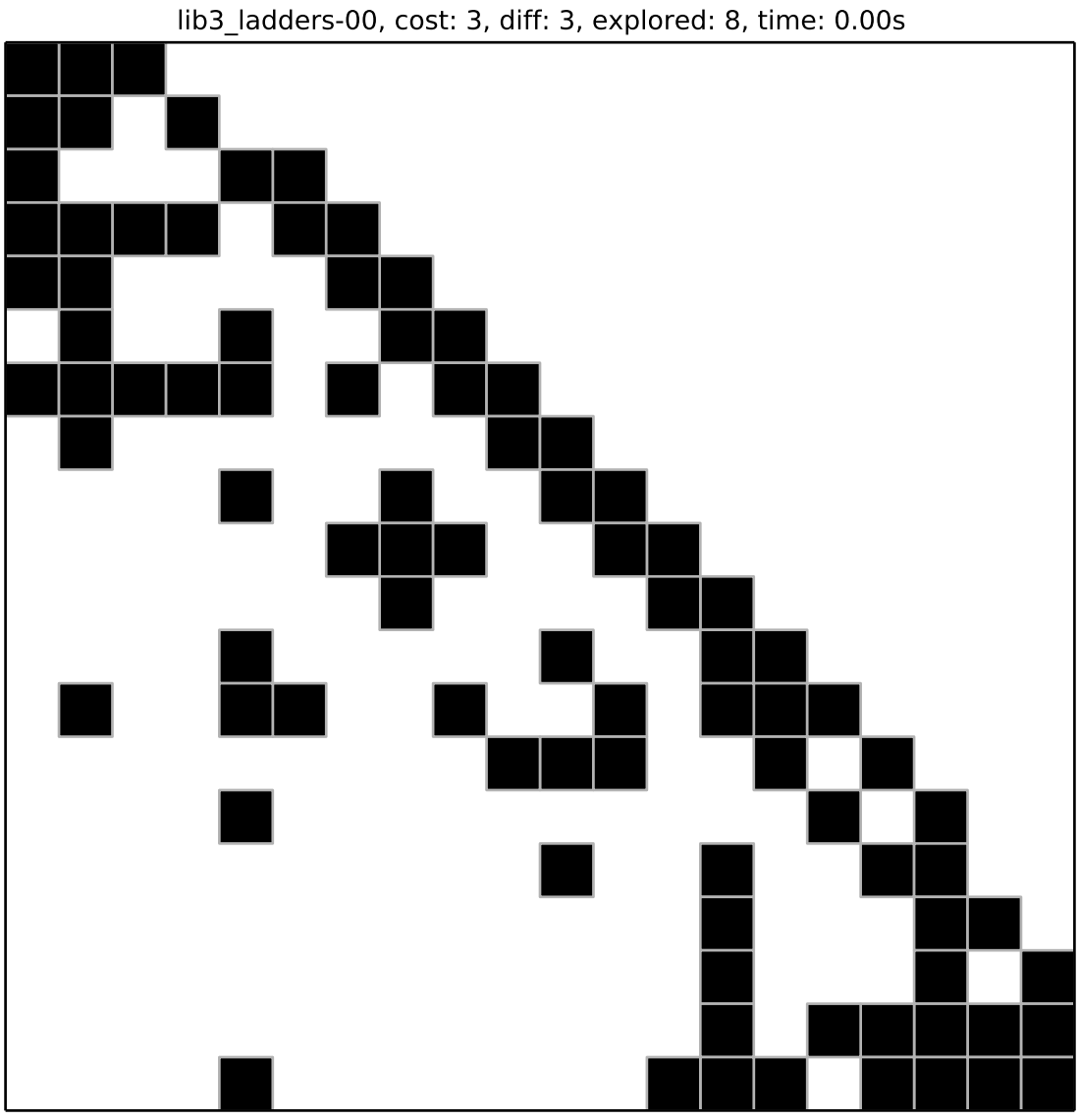
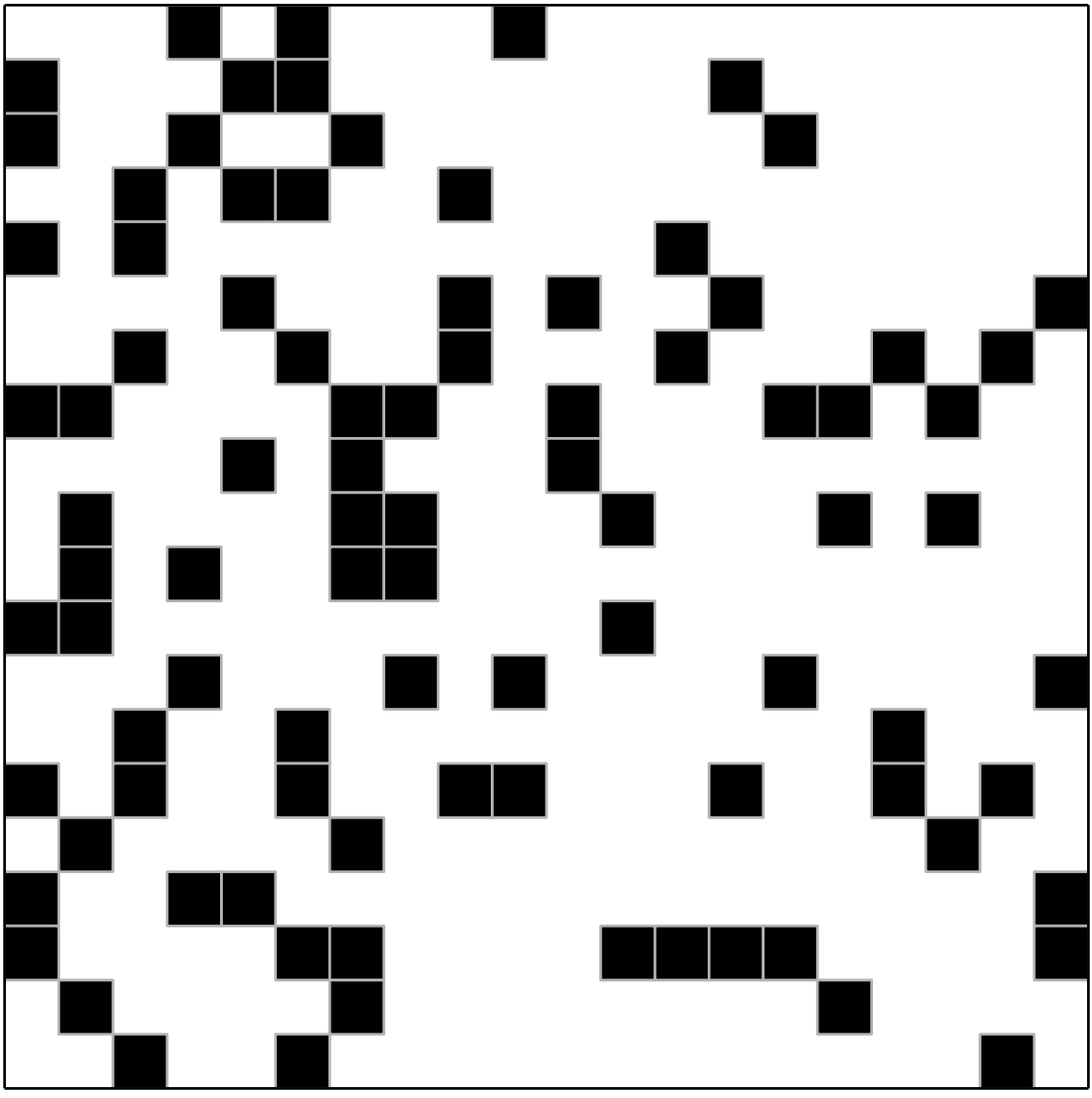
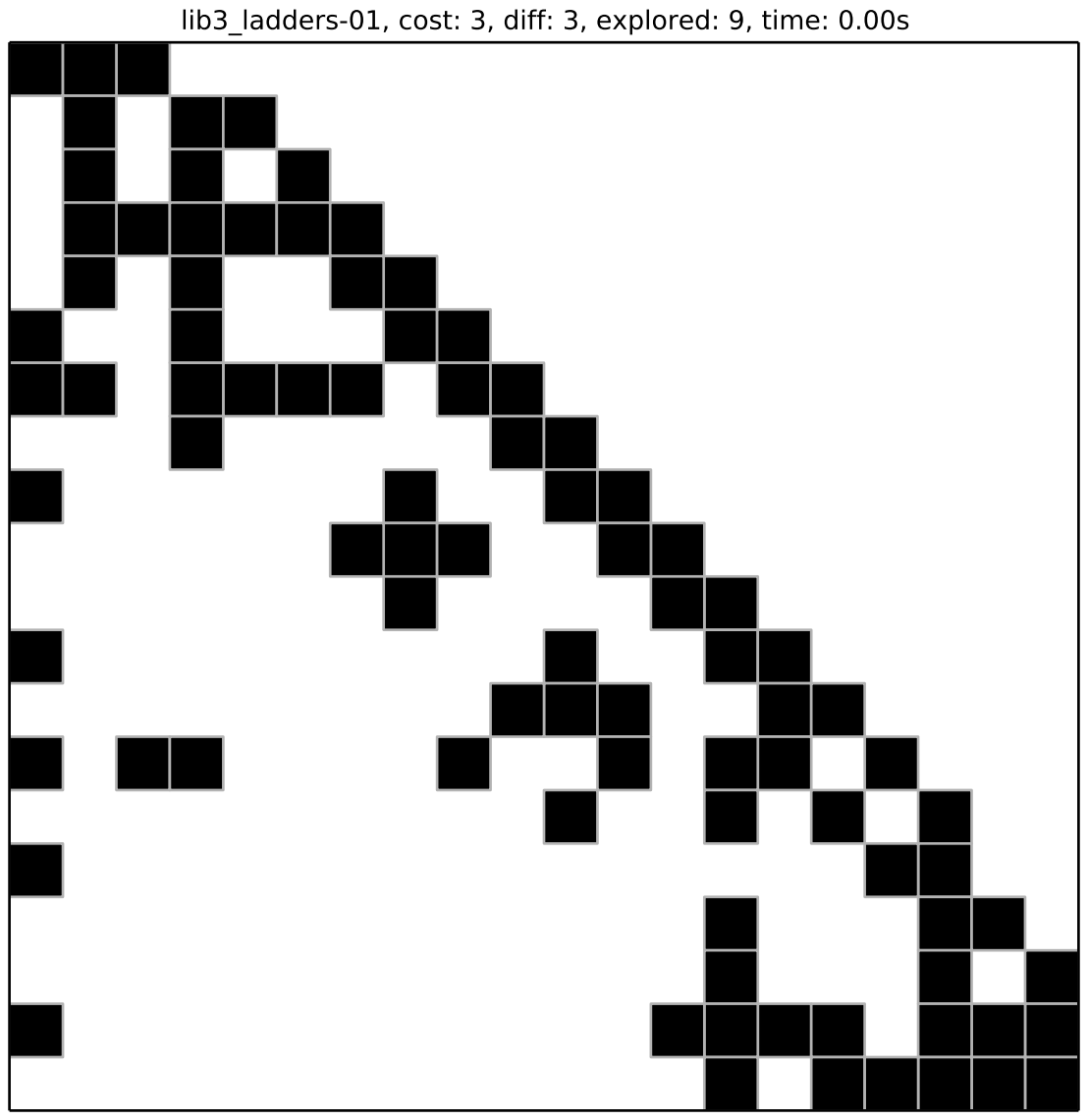
lib3_ladders-00 20x20 (90) con: 13, var: 7




lib3_ladders-00, cost: 3, diff: 3, explored: 8, time: 0.00s

lib3_ladders-01 20x20 (90) con: 13, var: 7

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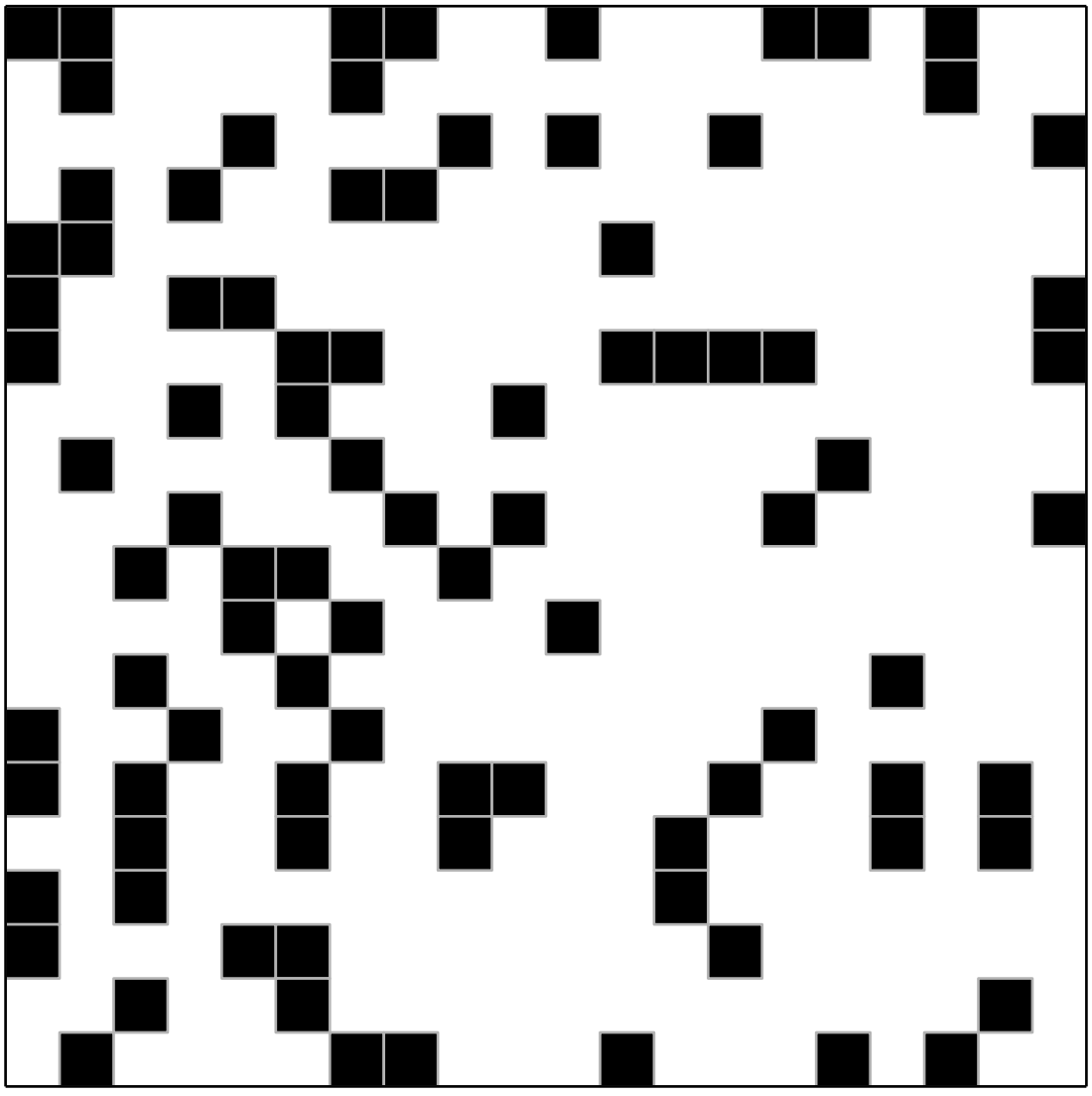
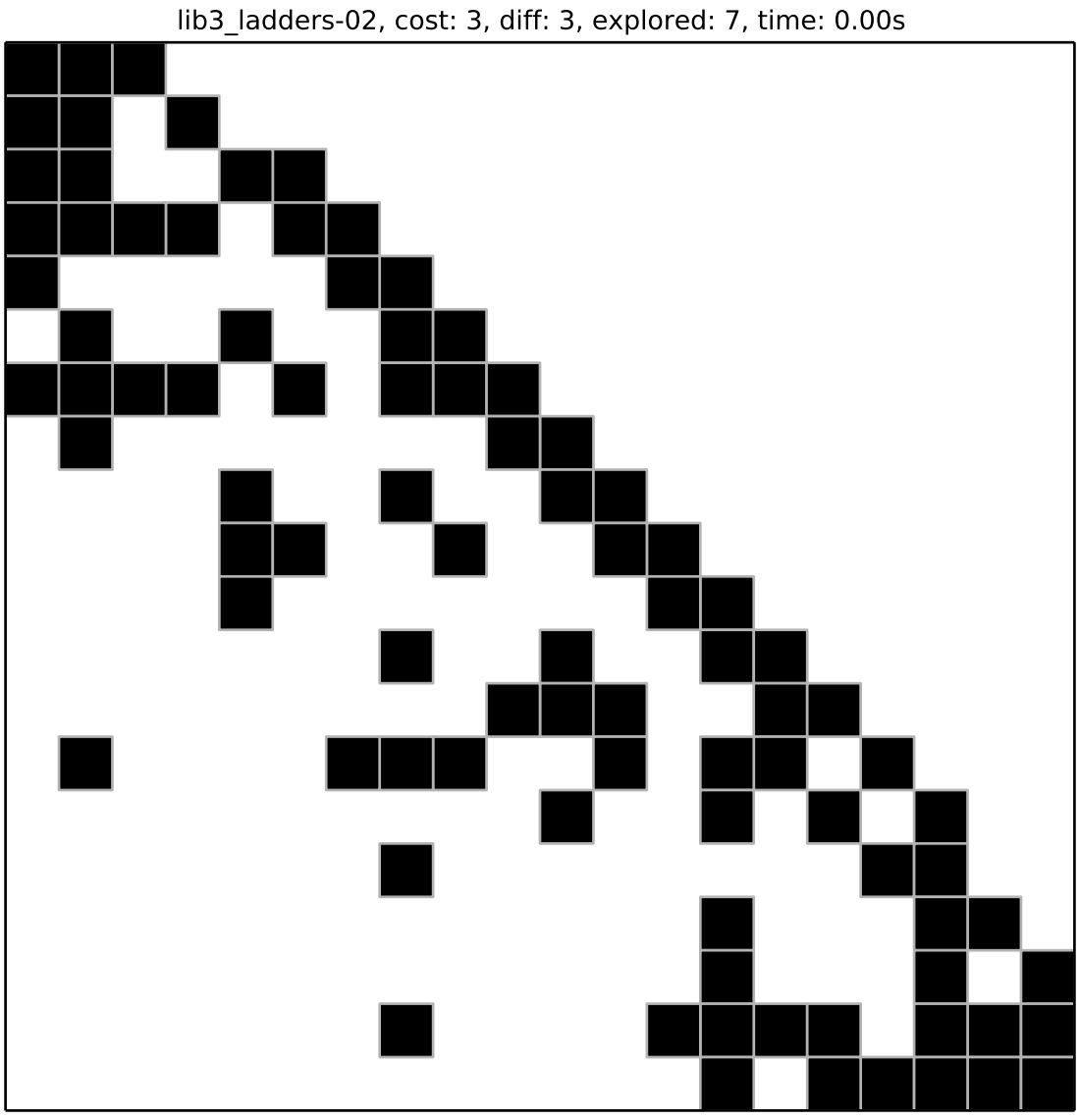

lib3_ladders-02 20x20 (90) con: 13, var: 7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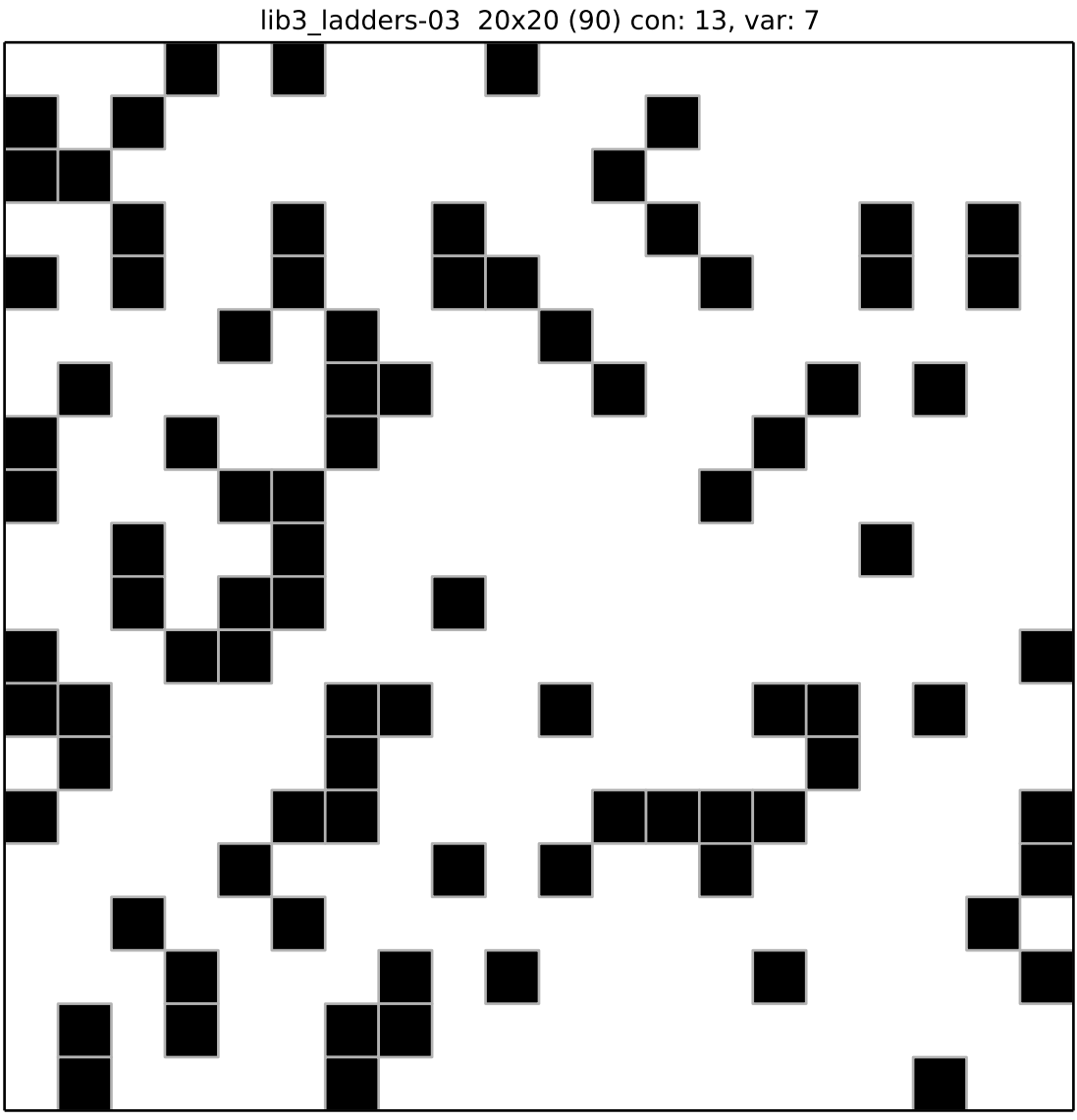
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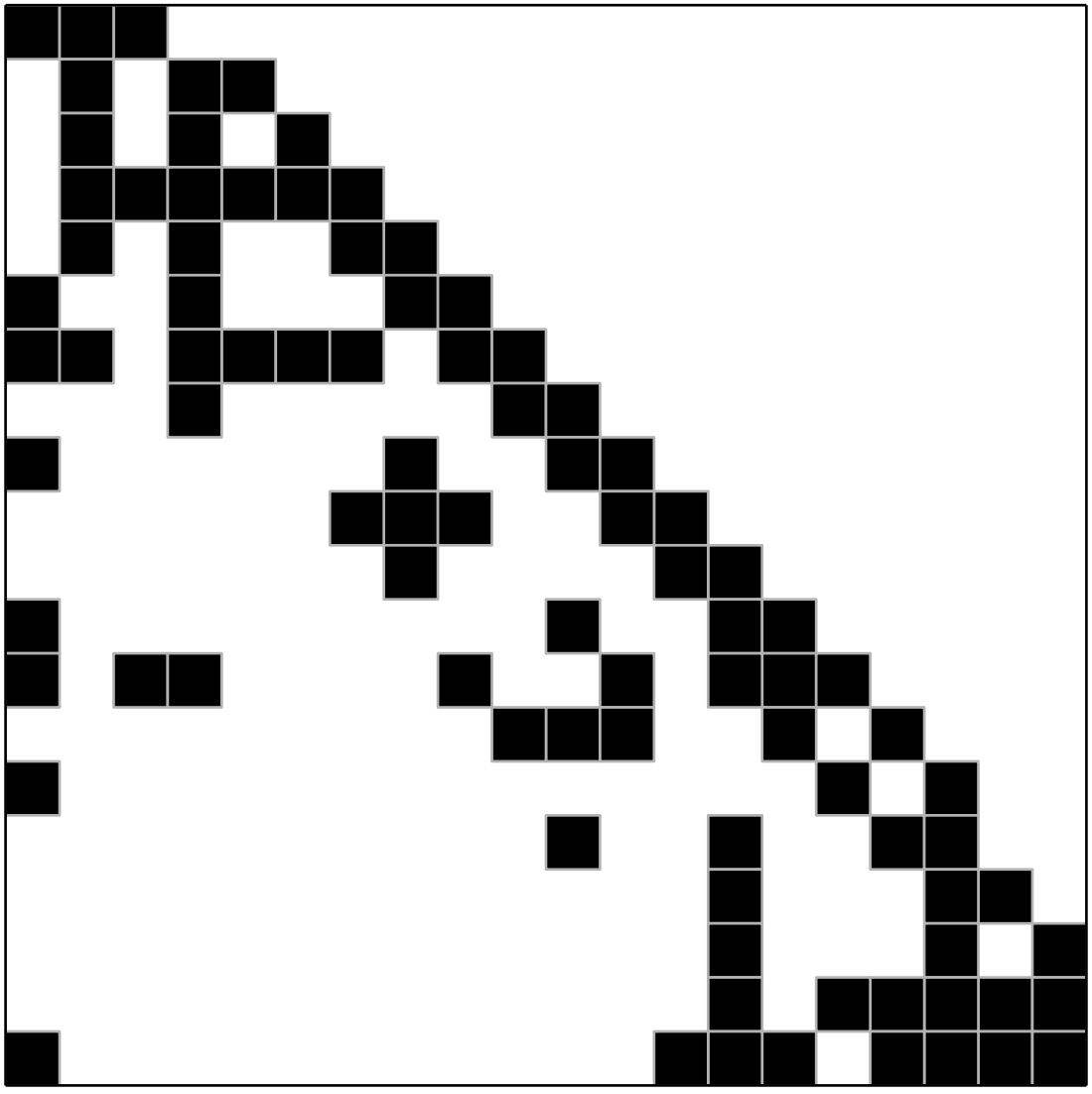
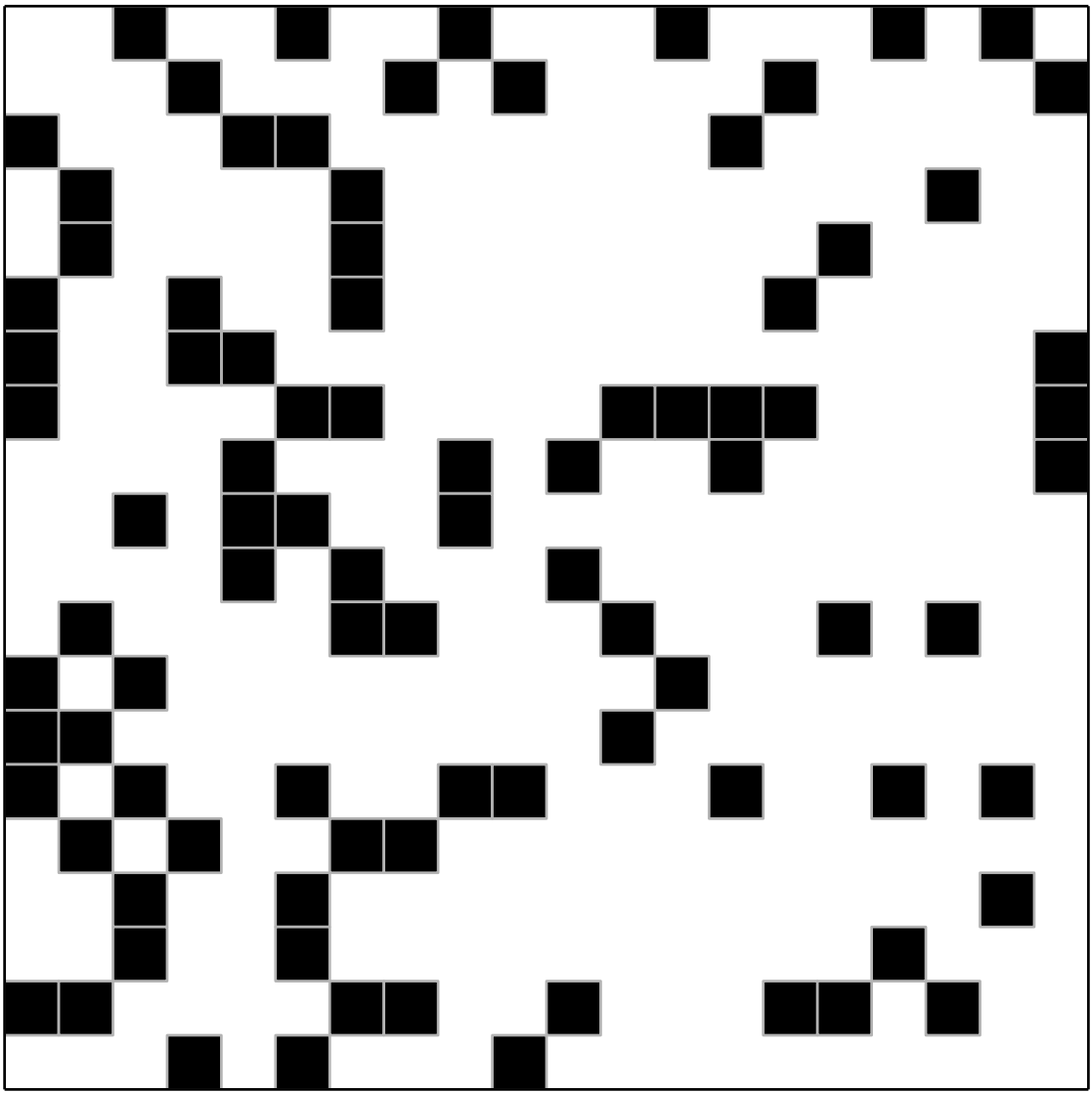
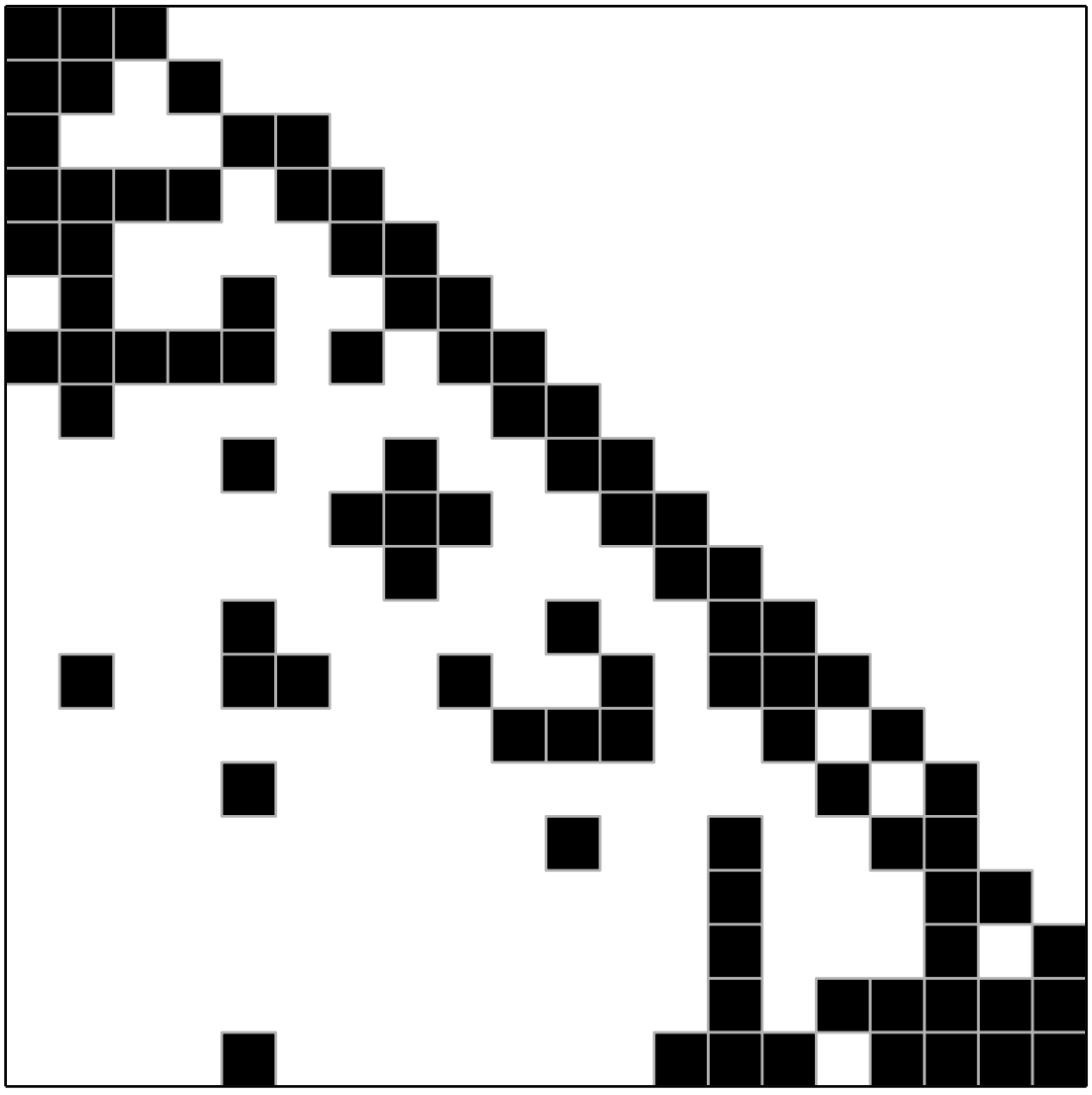
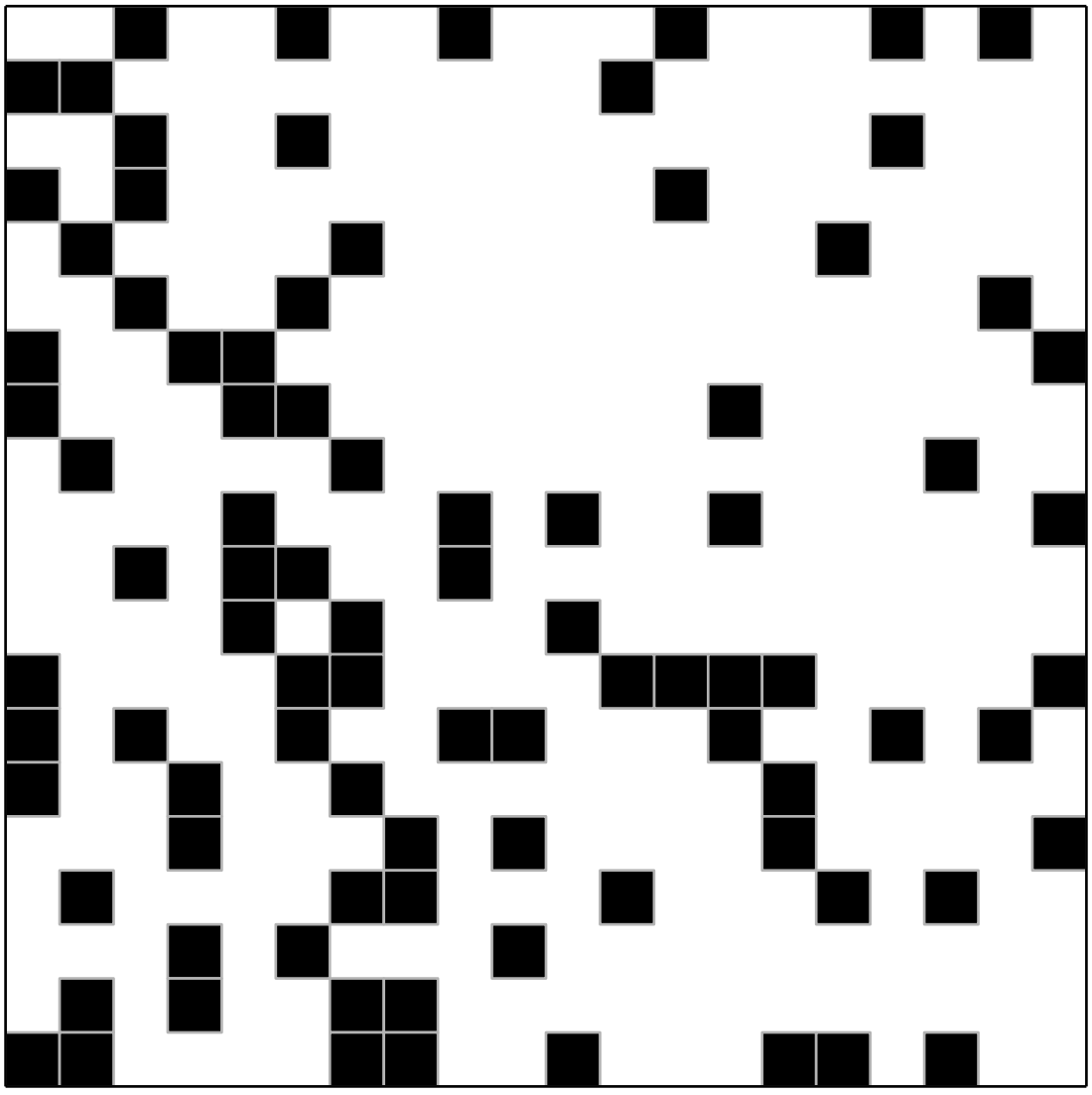
lib3_ladders-03, cost: 3, diff: 3, explored: 9, time: 0.00s

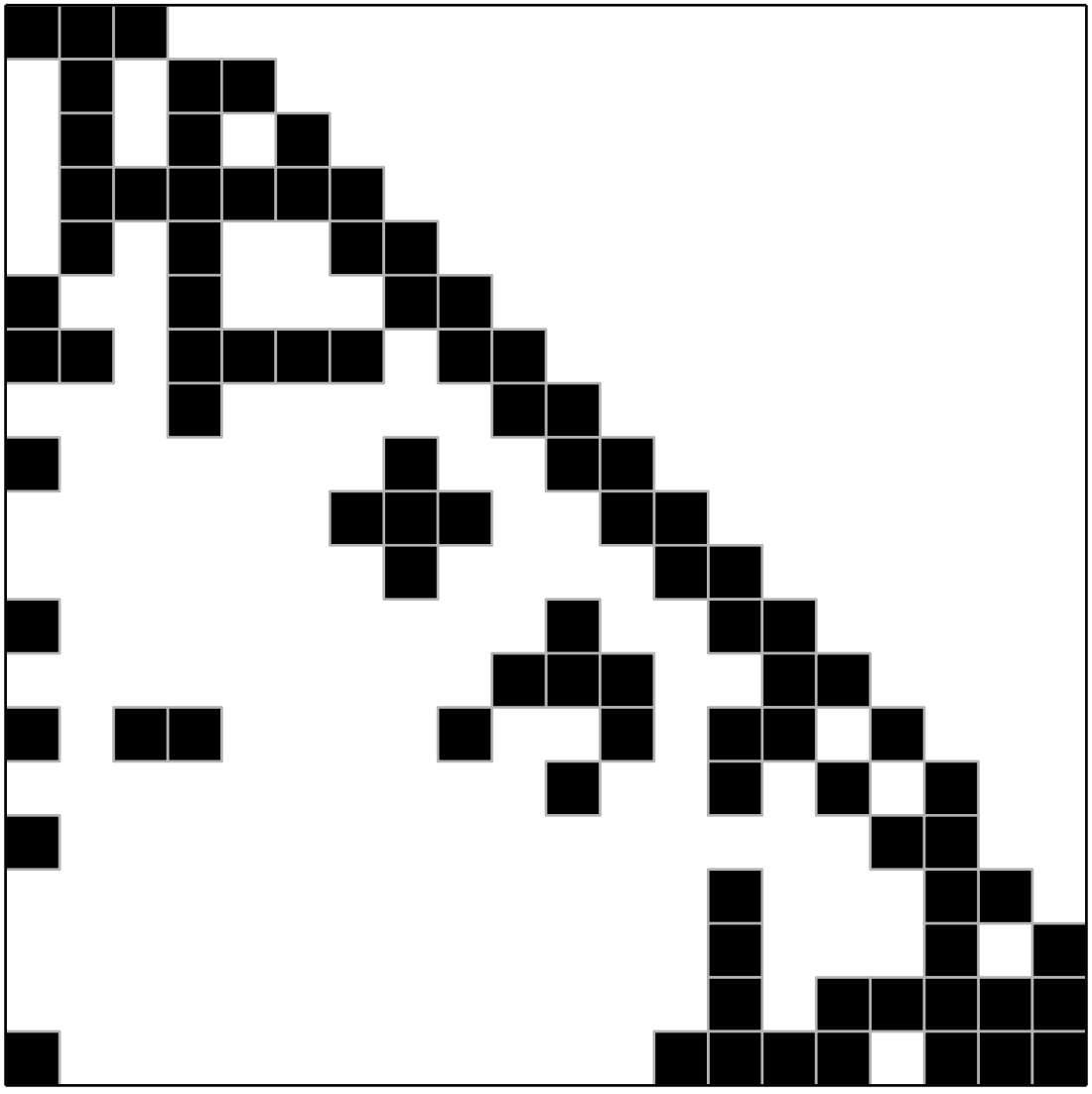



lib3_ladders-04 20x20 (90) con: 13, var: 7

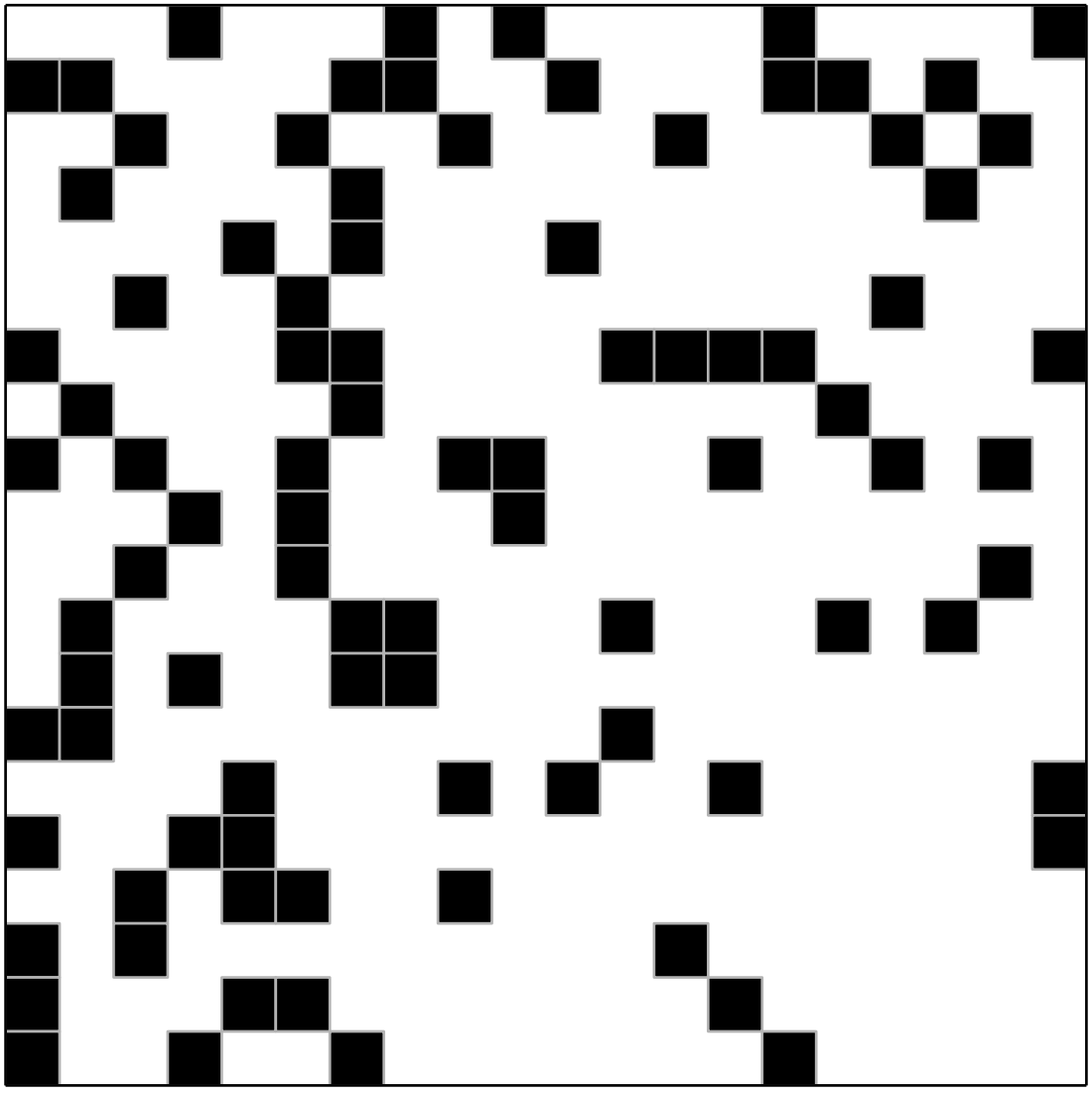

lib3_ladders-04, cost: 3, diff: 3, explored: 8, time: 0.00s

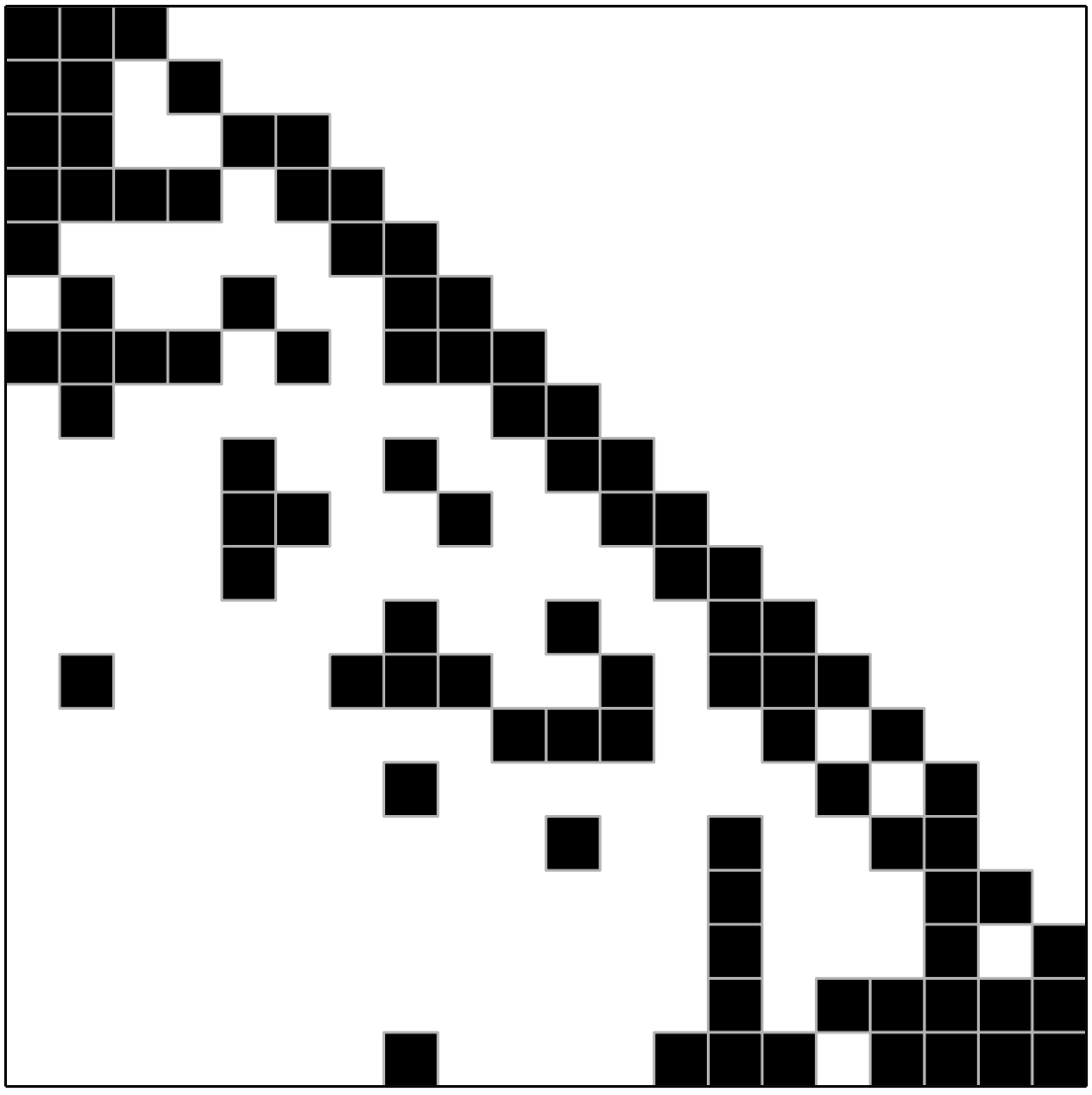

lib3_ladders-05 20x20 (90) con: 13, var: 7

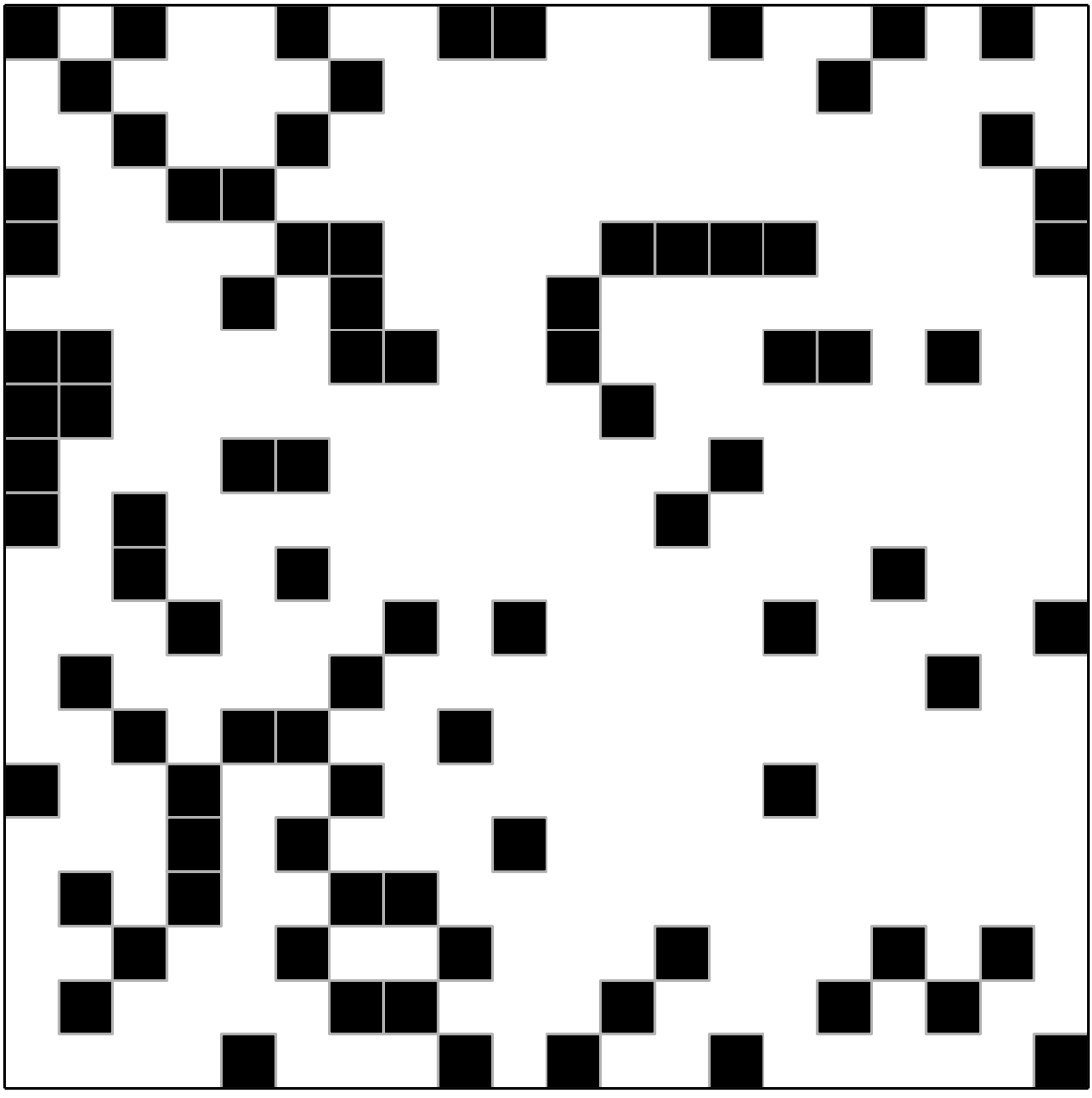
lib3_ladders-05, cost: 3, diff: 3, explored: 8, time: 0.00s

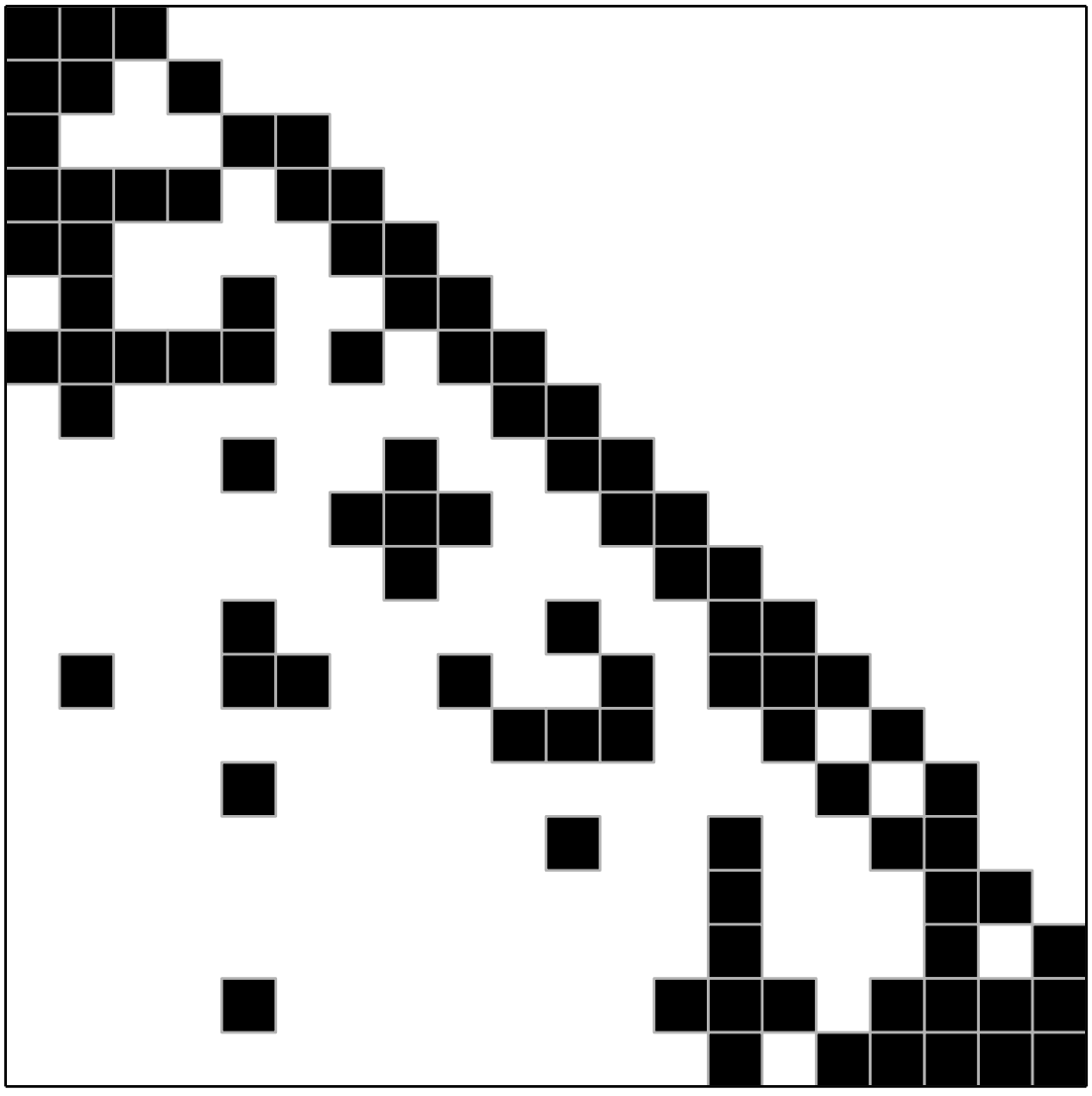


lib3_ladders-06 20x20 (90) con: 13, var: 7




lib3_ladders-06, cost: 3, diff: 3, explored: 8, time: 0.00s


lib3_ladders-07 20x20 (90) con: 13, var: 7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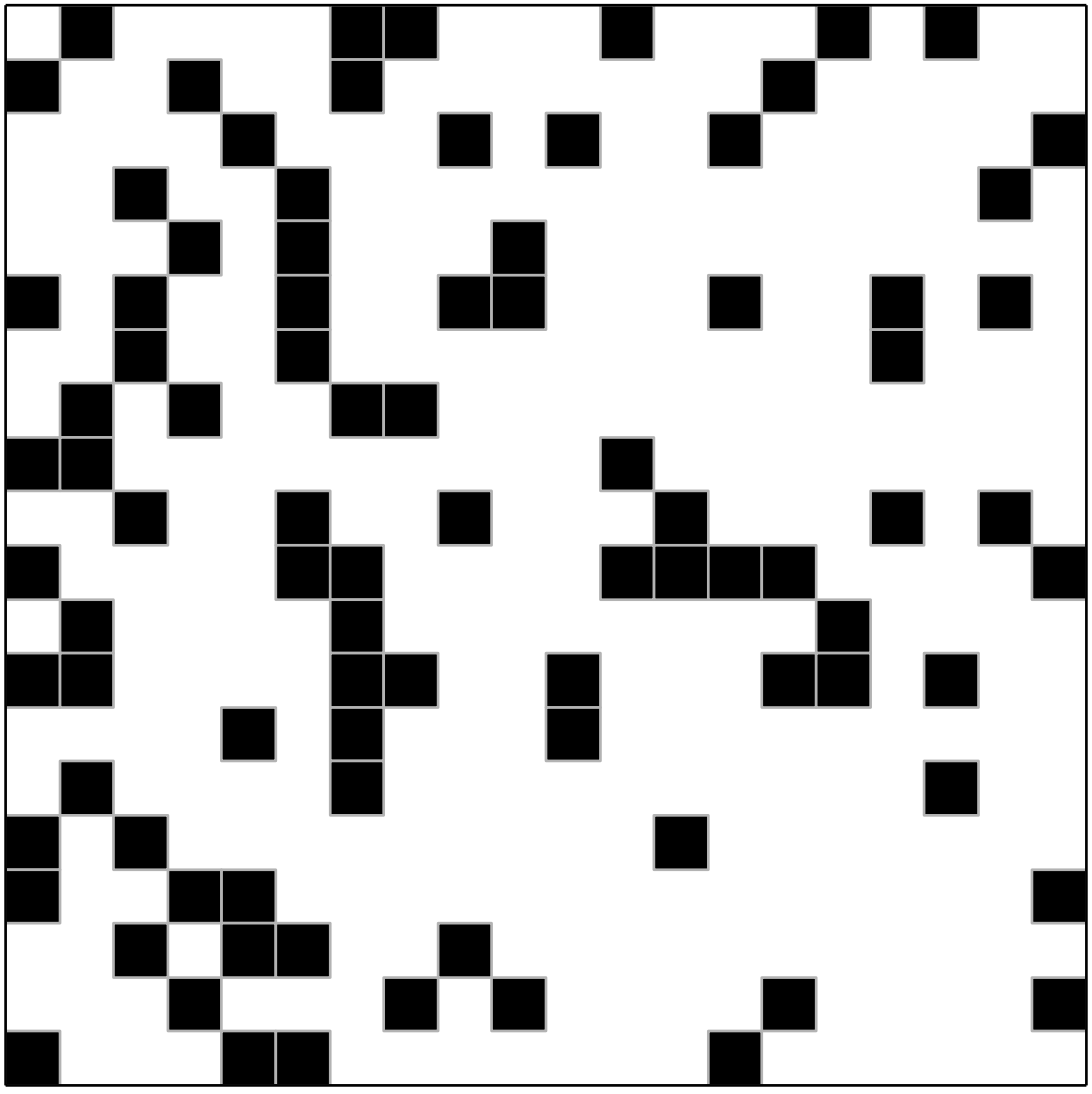
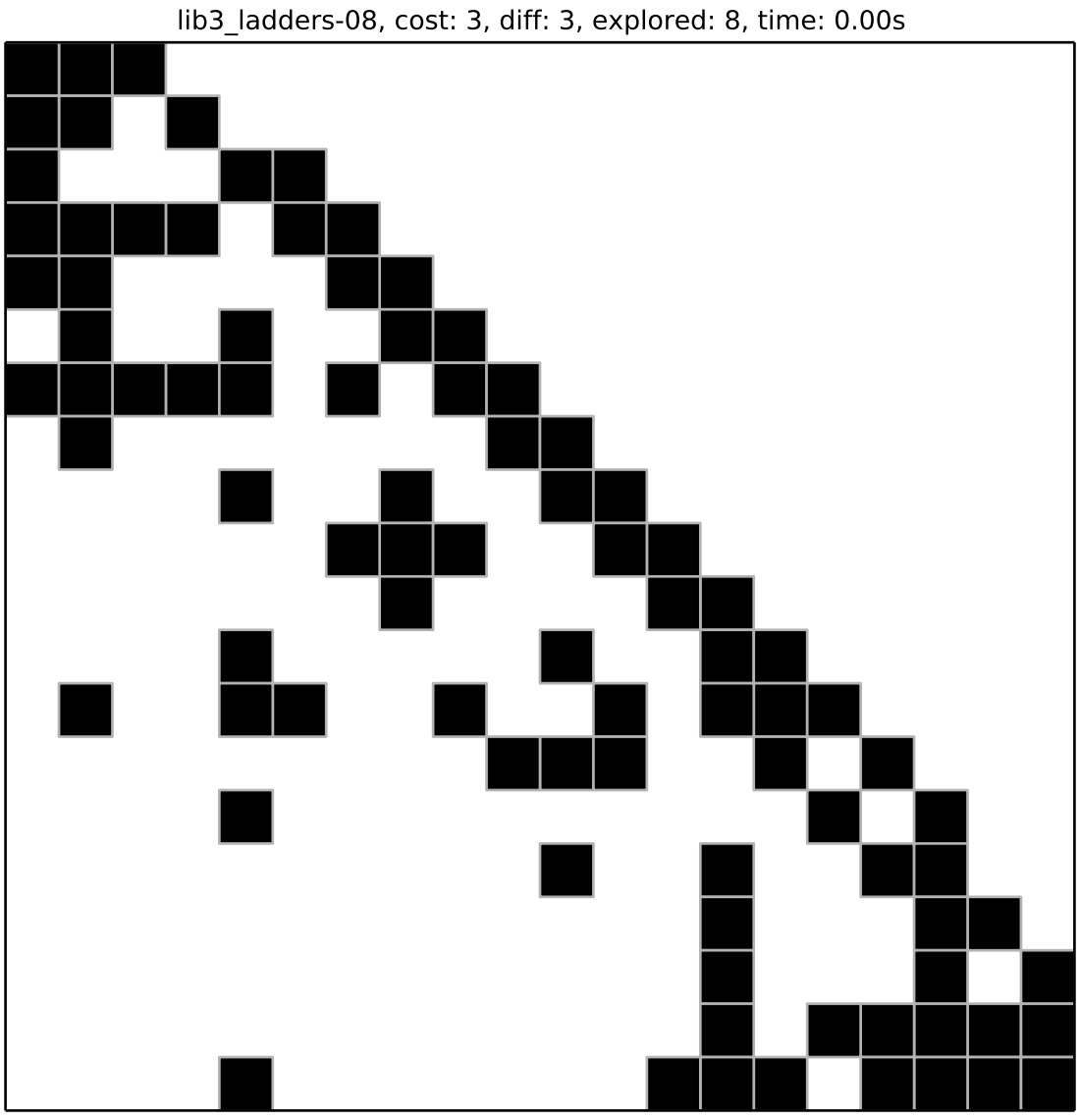
lib3_ladders-08 20x20 (90) con: 13, var: 7

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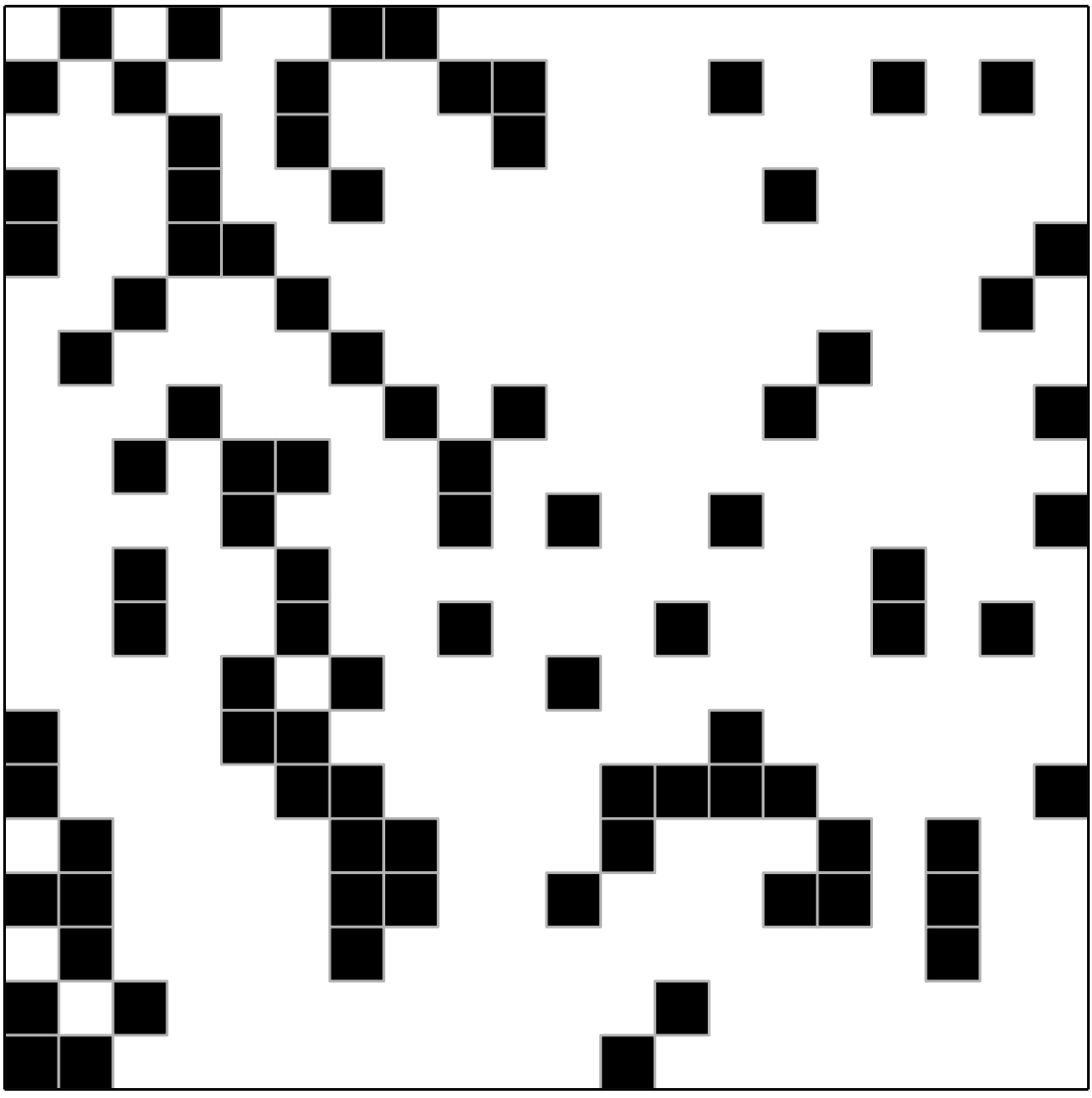
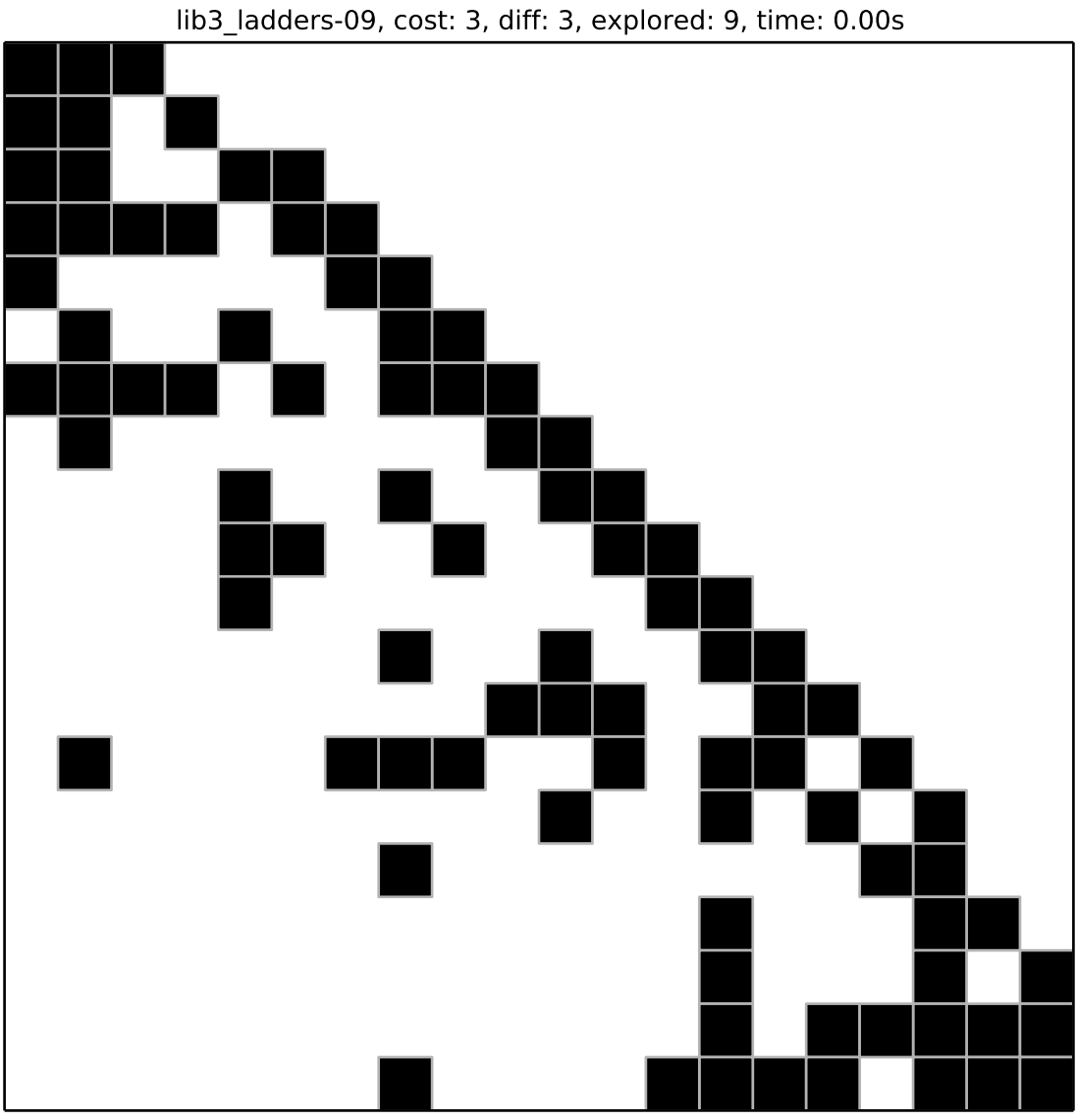

lib3_ladders-09 20x20 (90) con: 13, var: 7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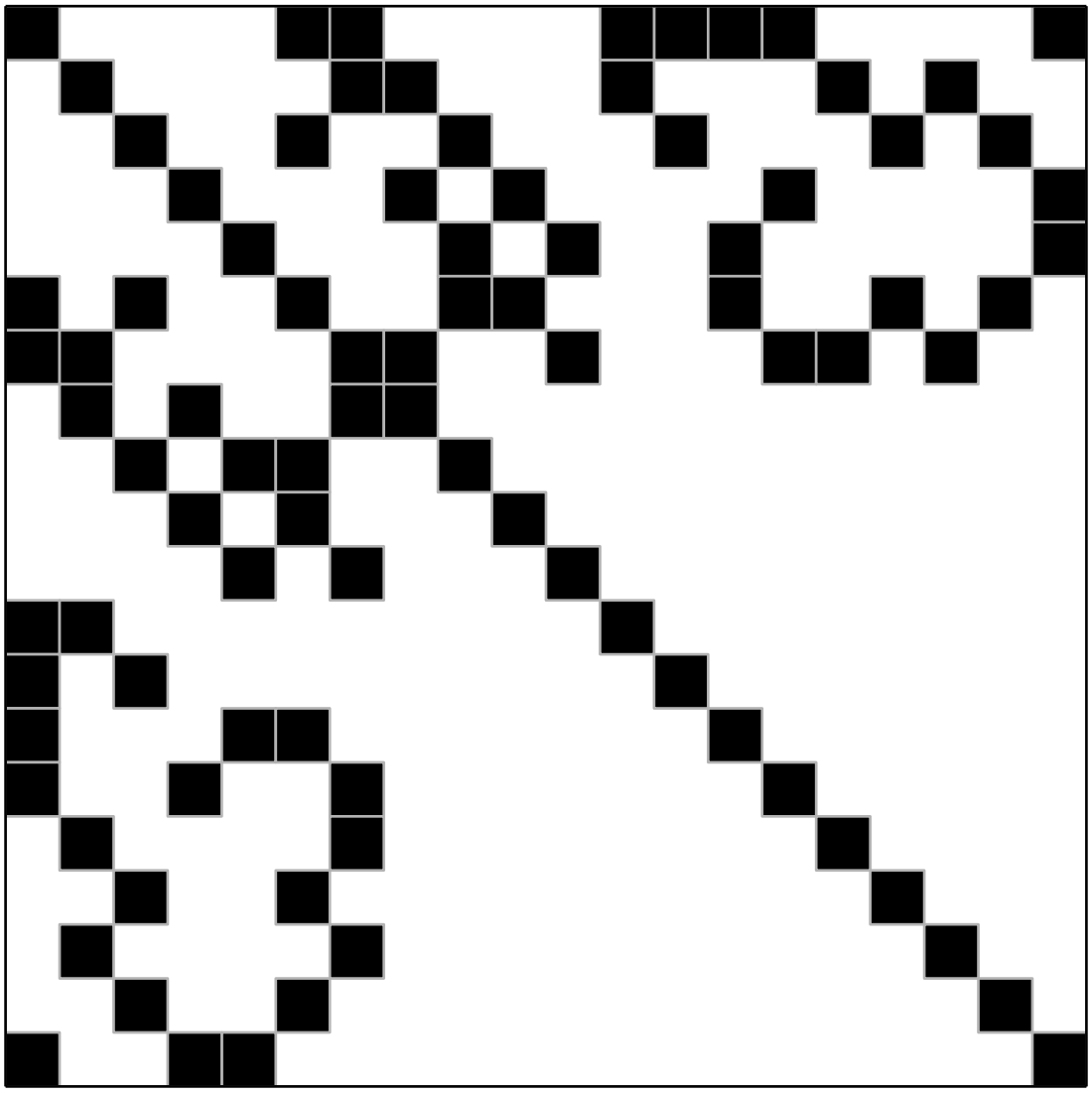
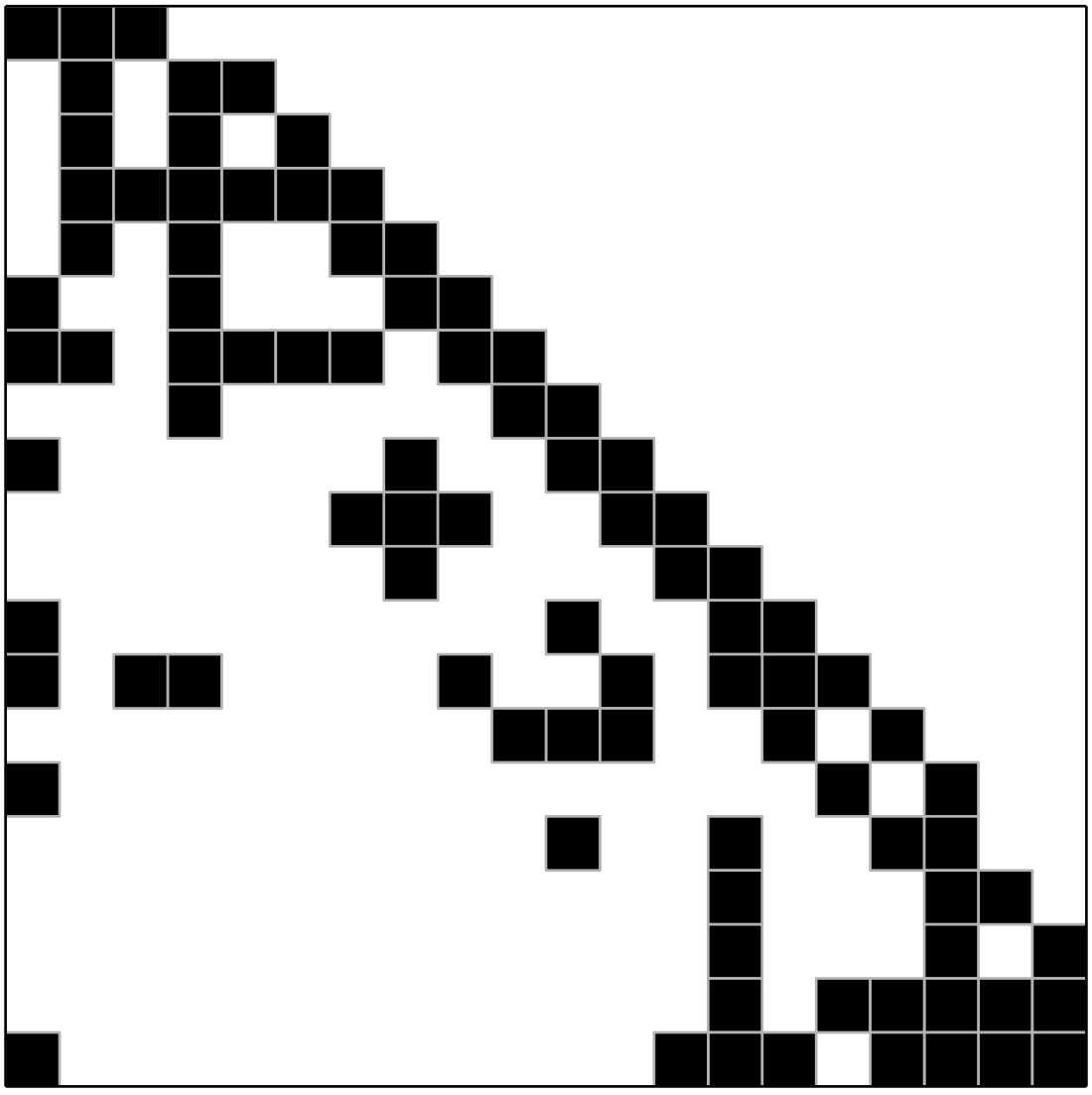

lib3_ladders-IN 20x20 (90) con: 13, var: 7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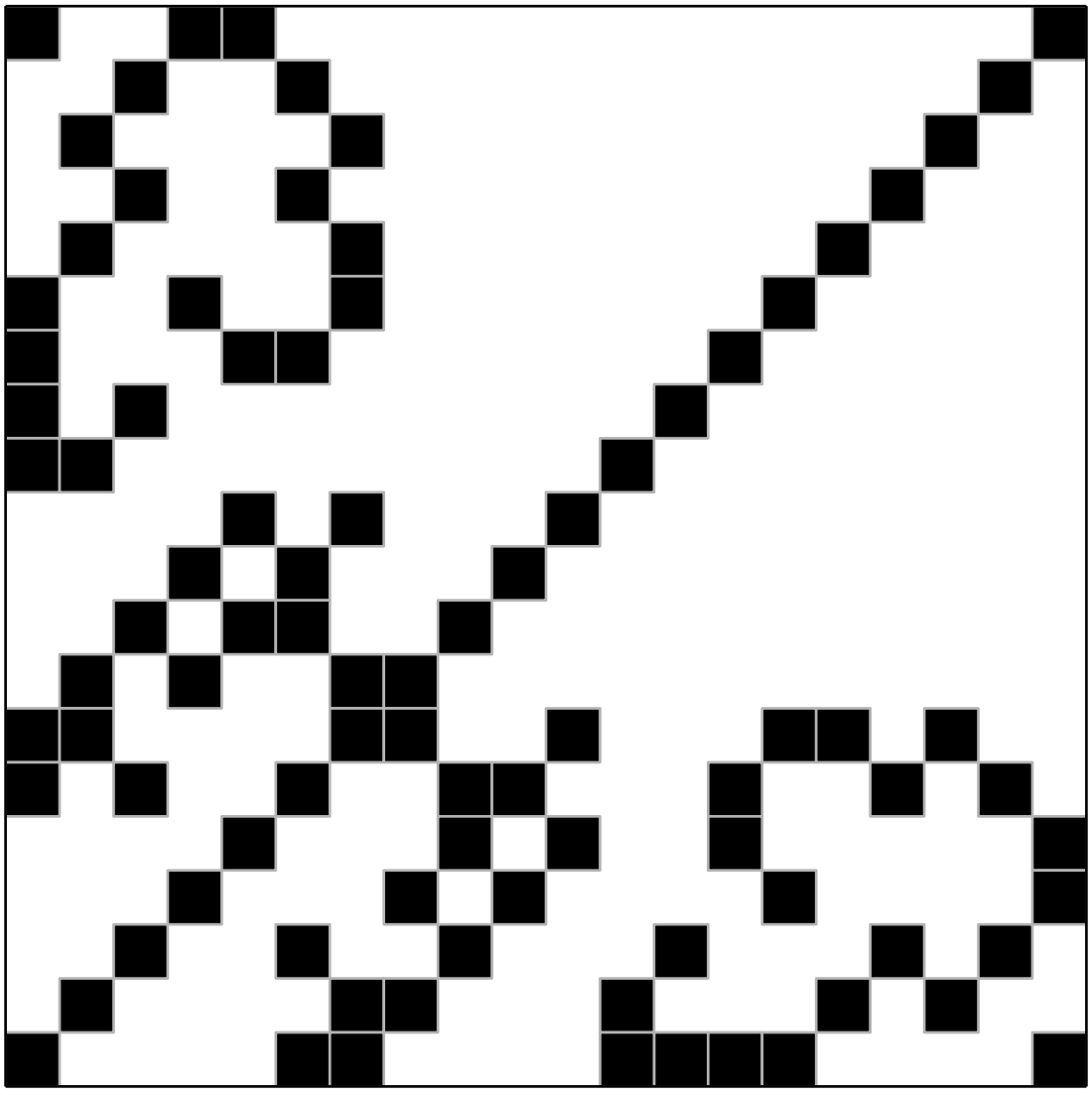
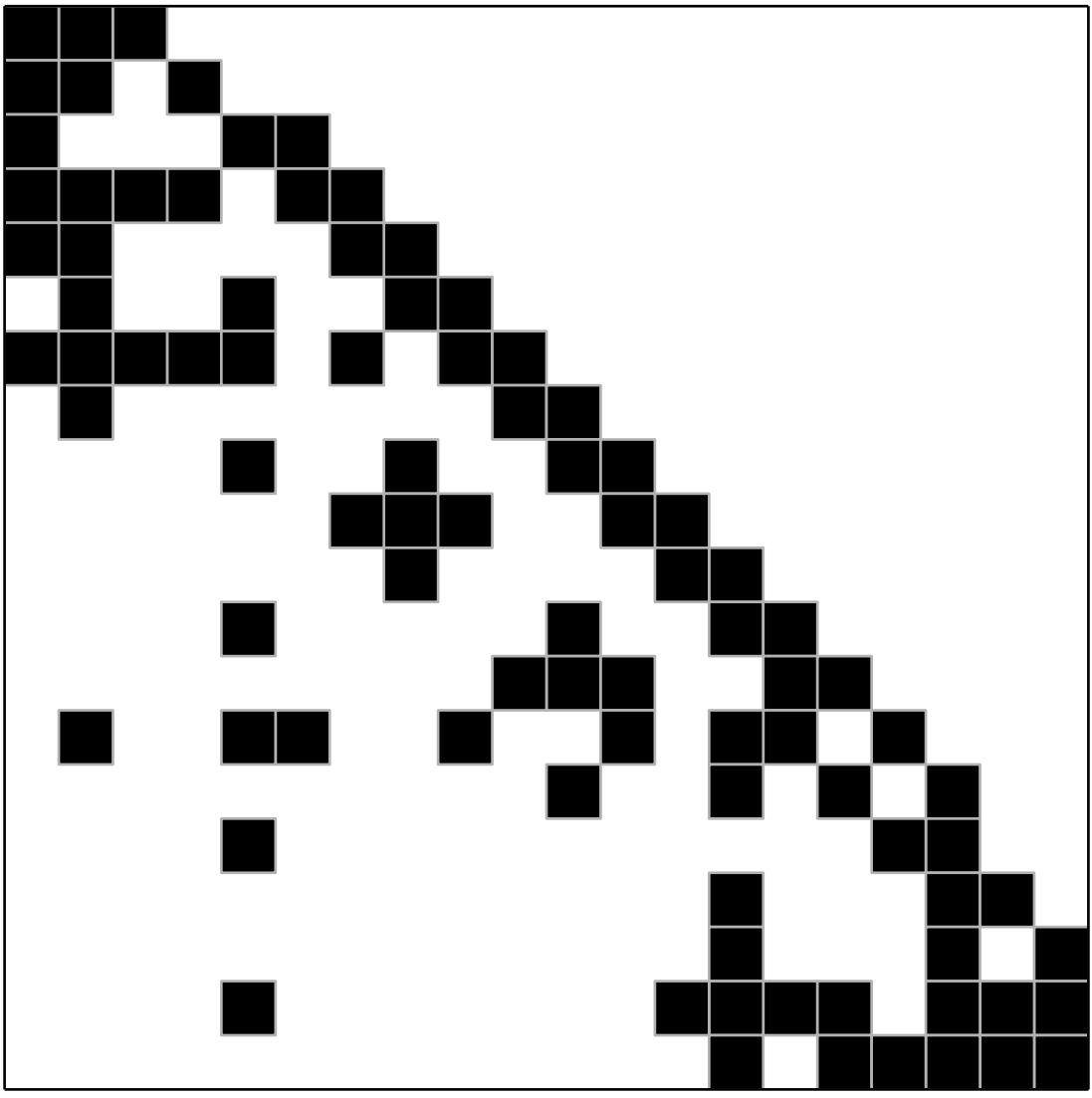

lib3_ladders-RE 20x20 (90) con: 13, var: 7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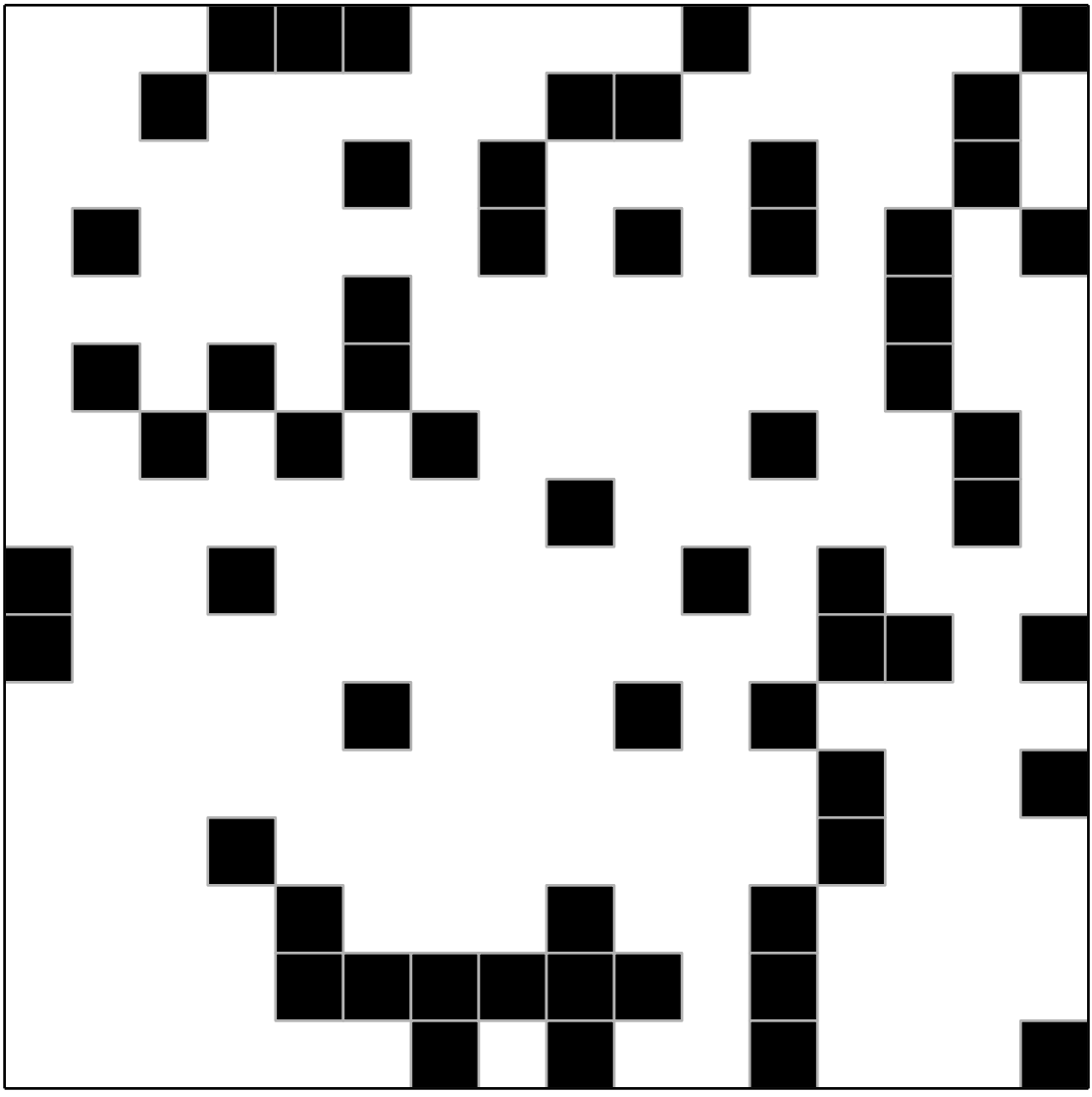
lib3_lhomme1-00 16x16 (61) con: 5, var: 11



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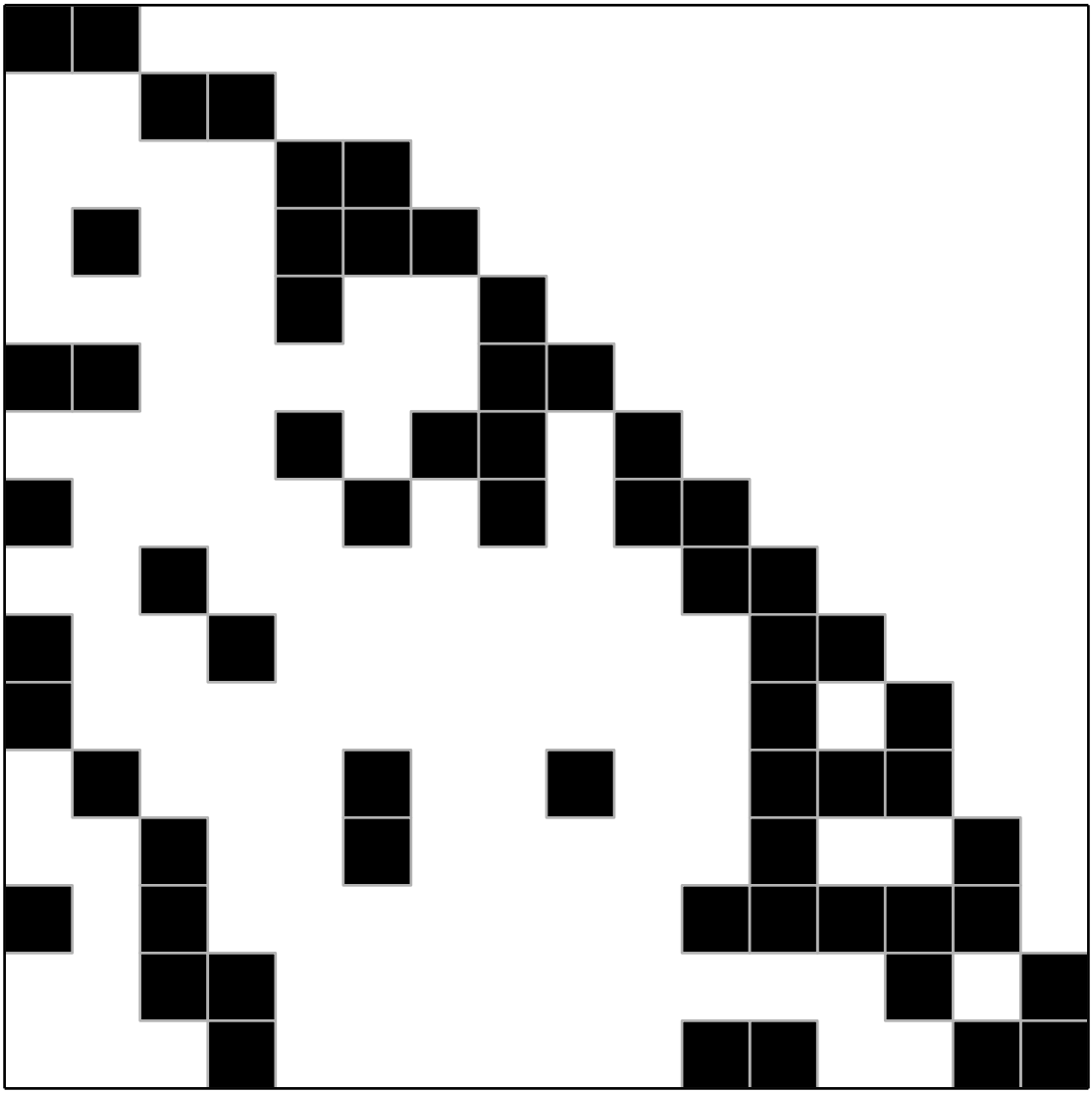
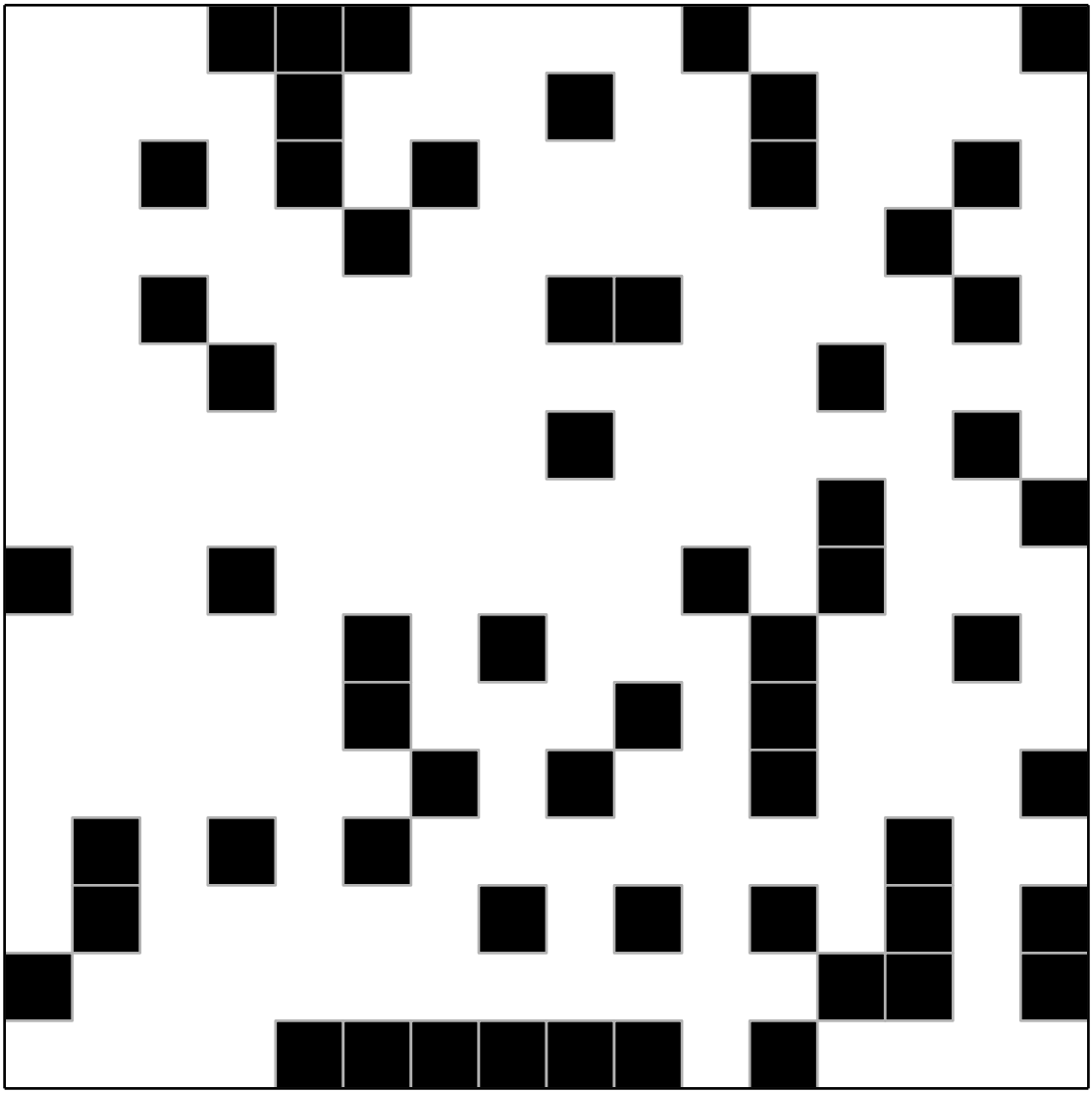
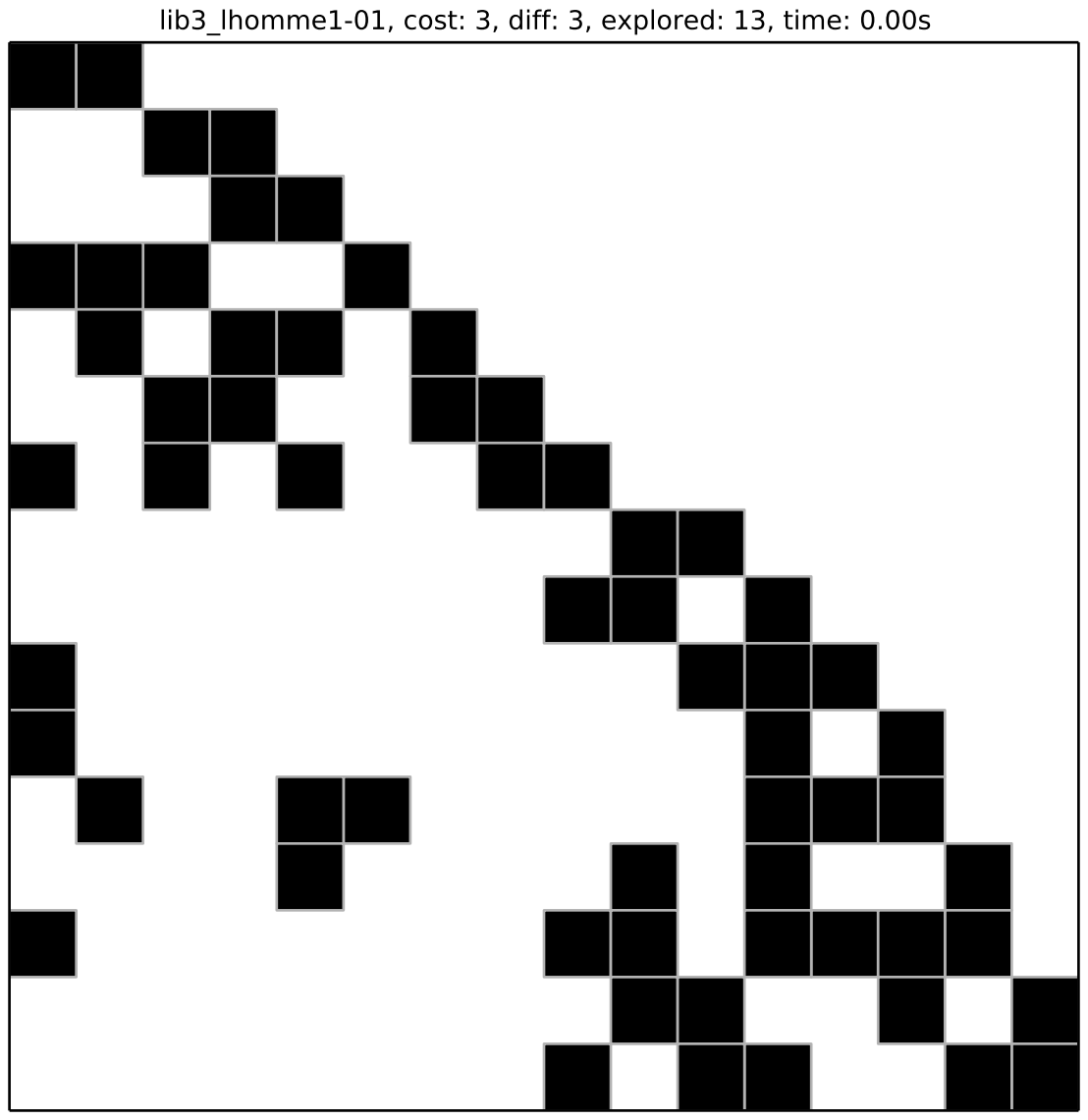


lib3_lhomme1-01 16x16 (61) con: 5, var: 11

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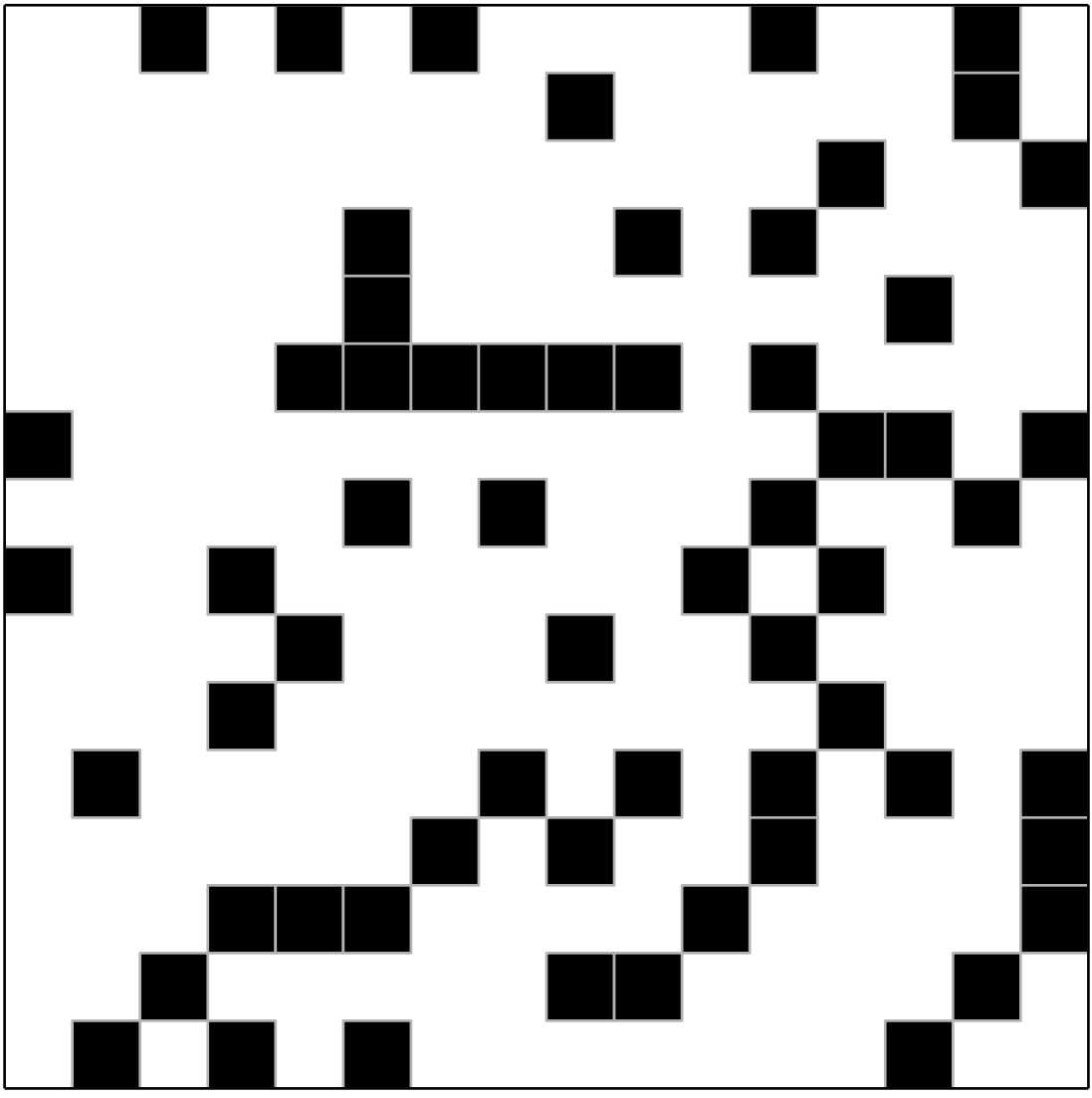
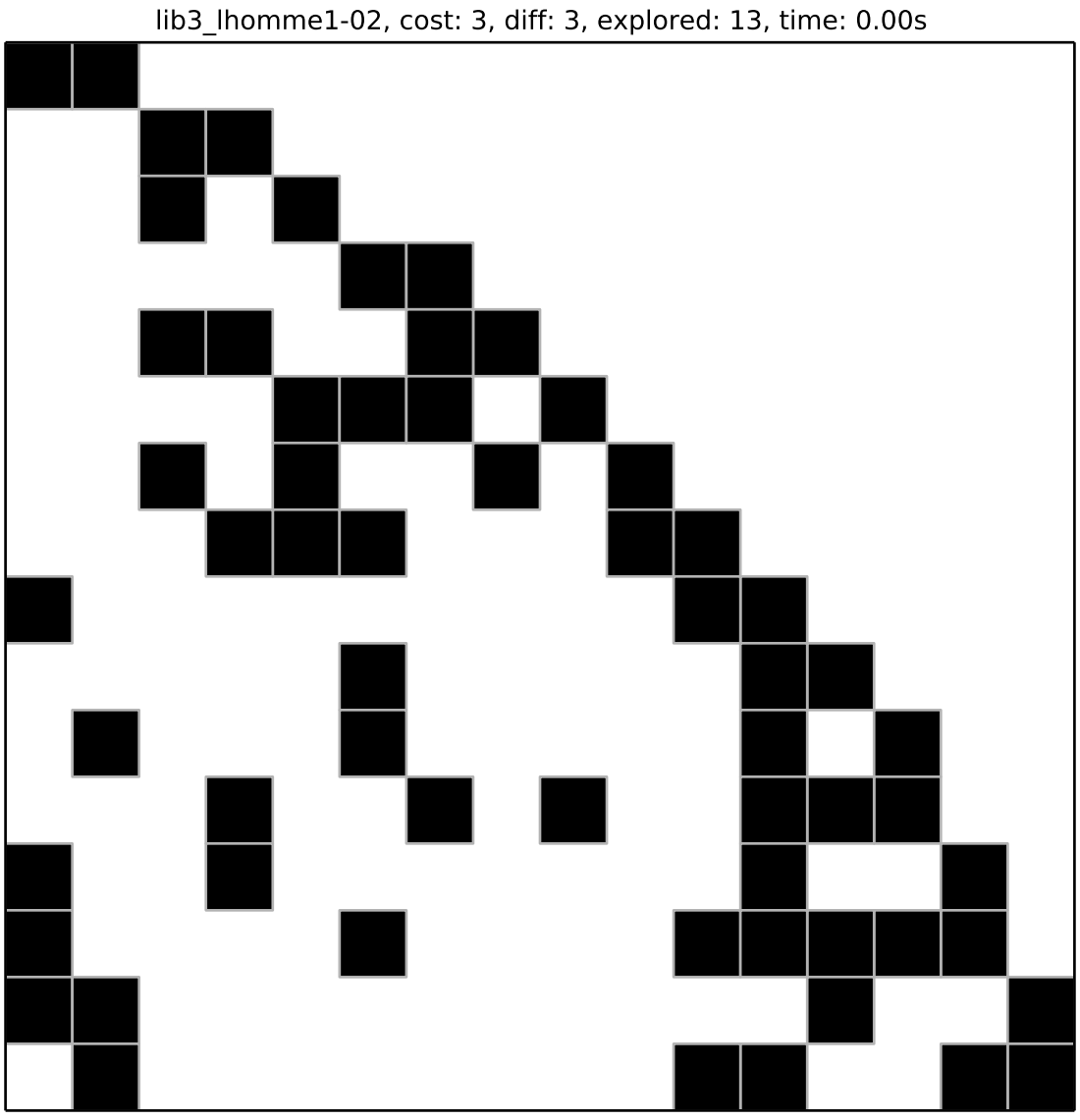
lib3_lhomme1-02 16x16 (61) con: 5, var: 11

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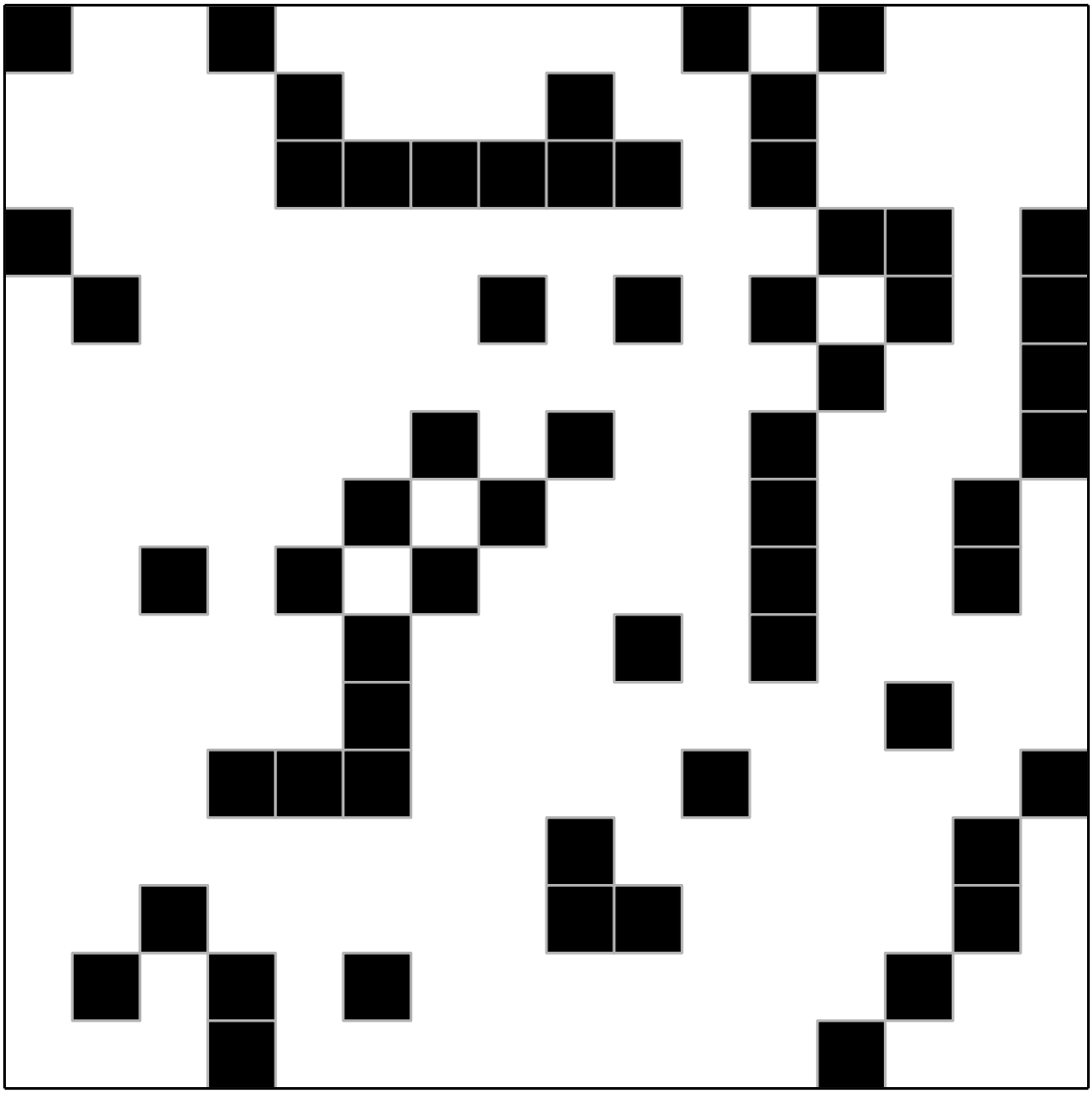
lib3_lhomme1-03 16x16 (61) con: 5, var: 11



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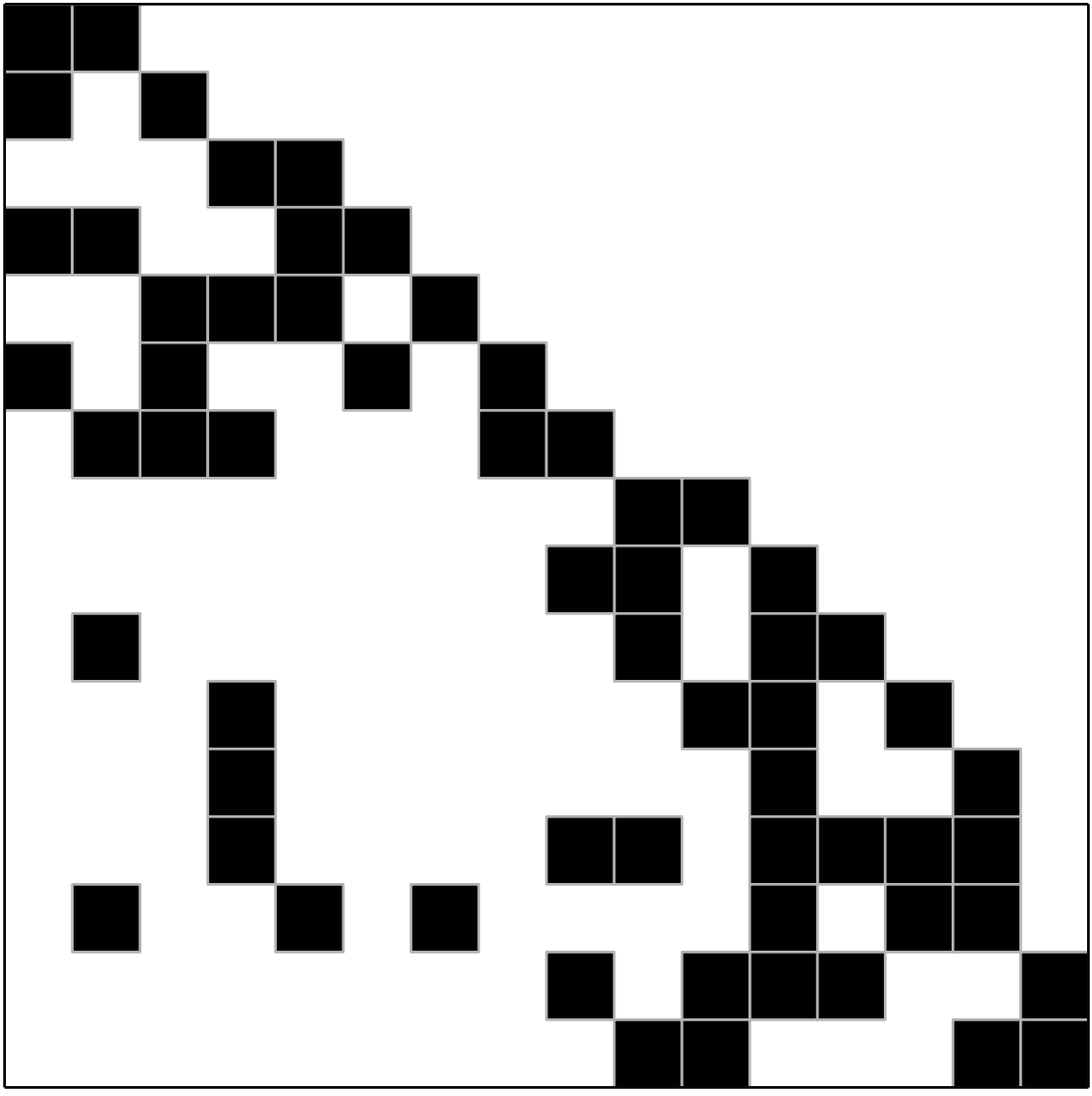
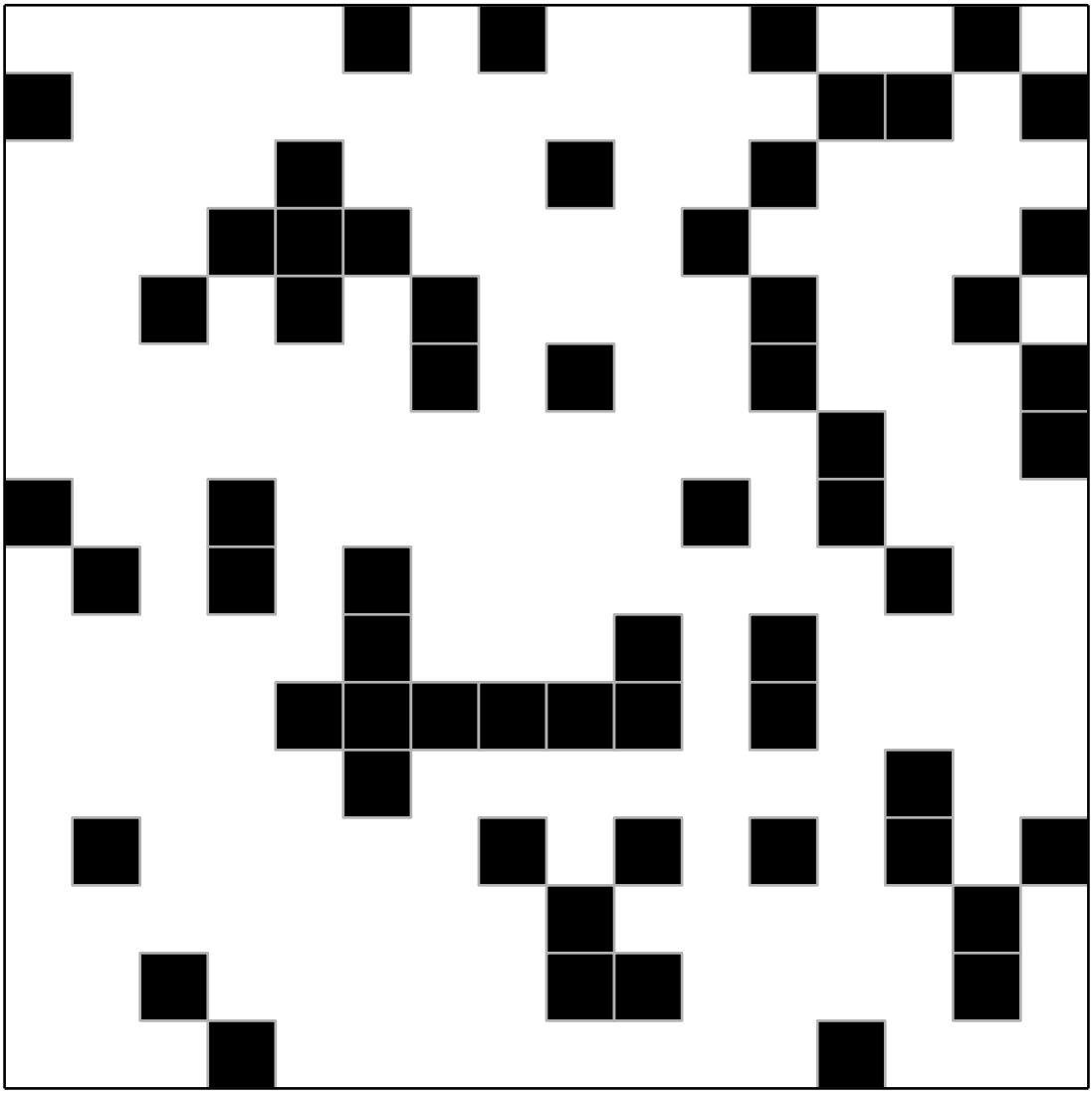
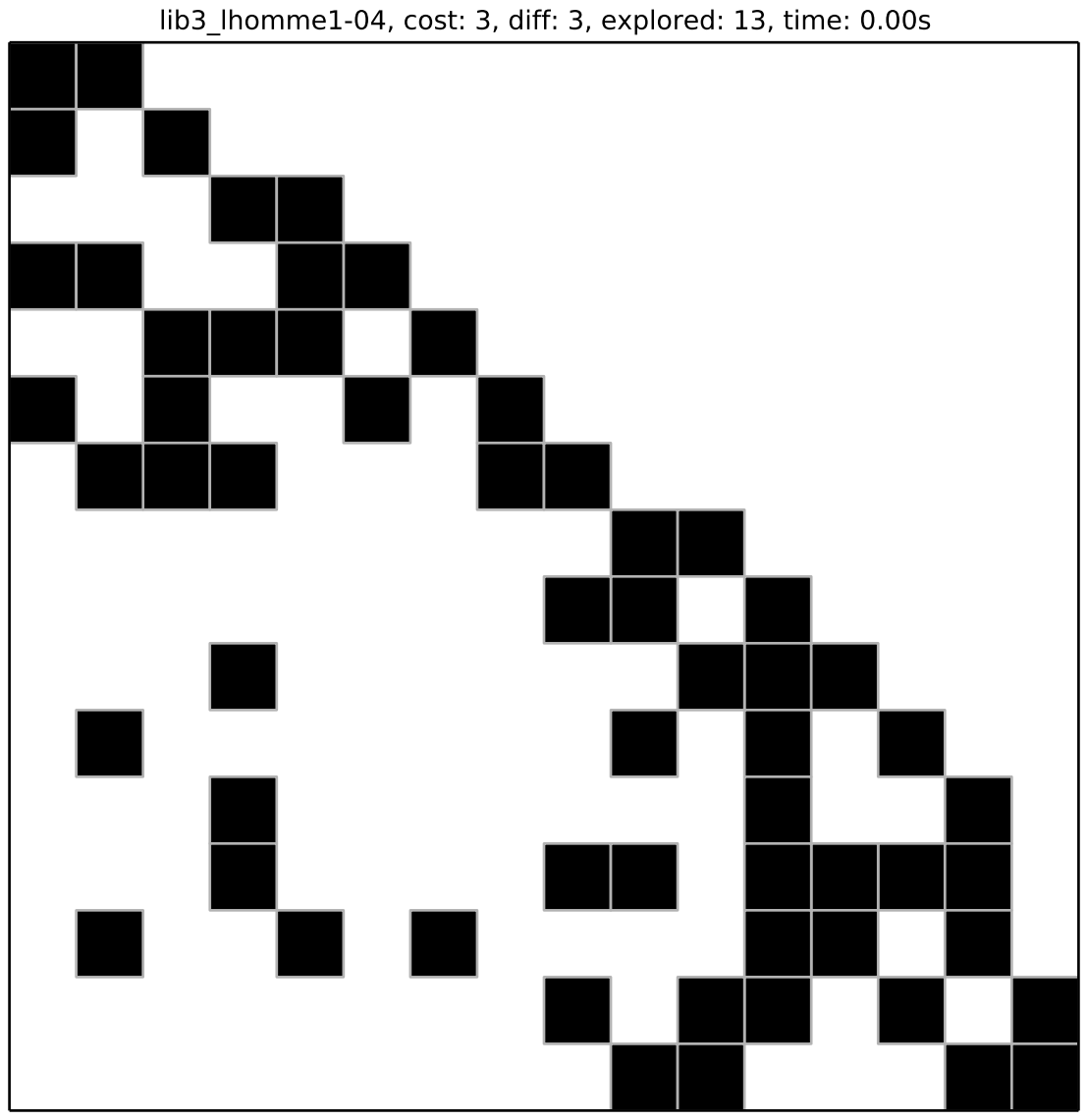


lib3_lhomme1-04 16x16 (61) con: 5, var: 11

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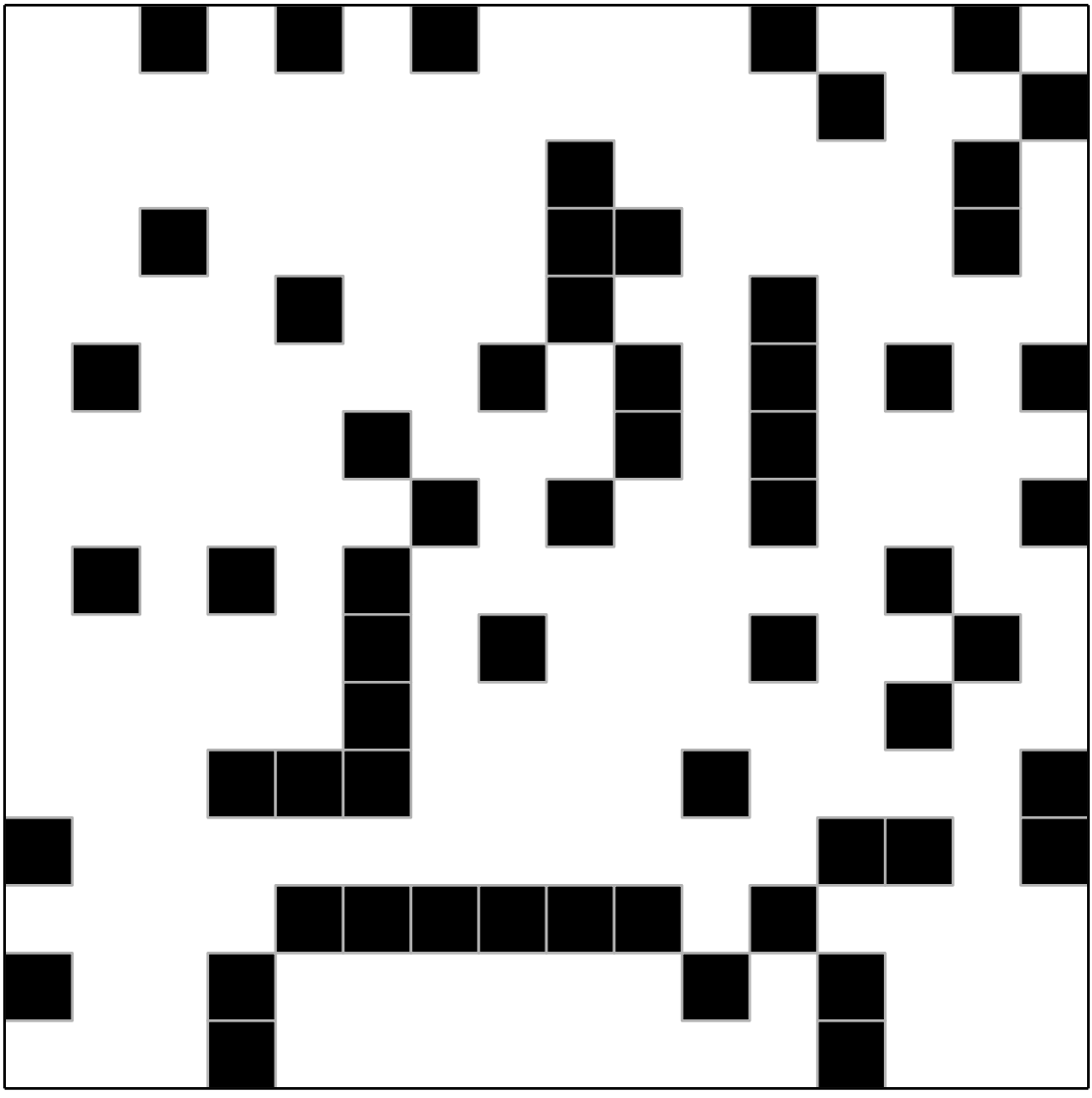
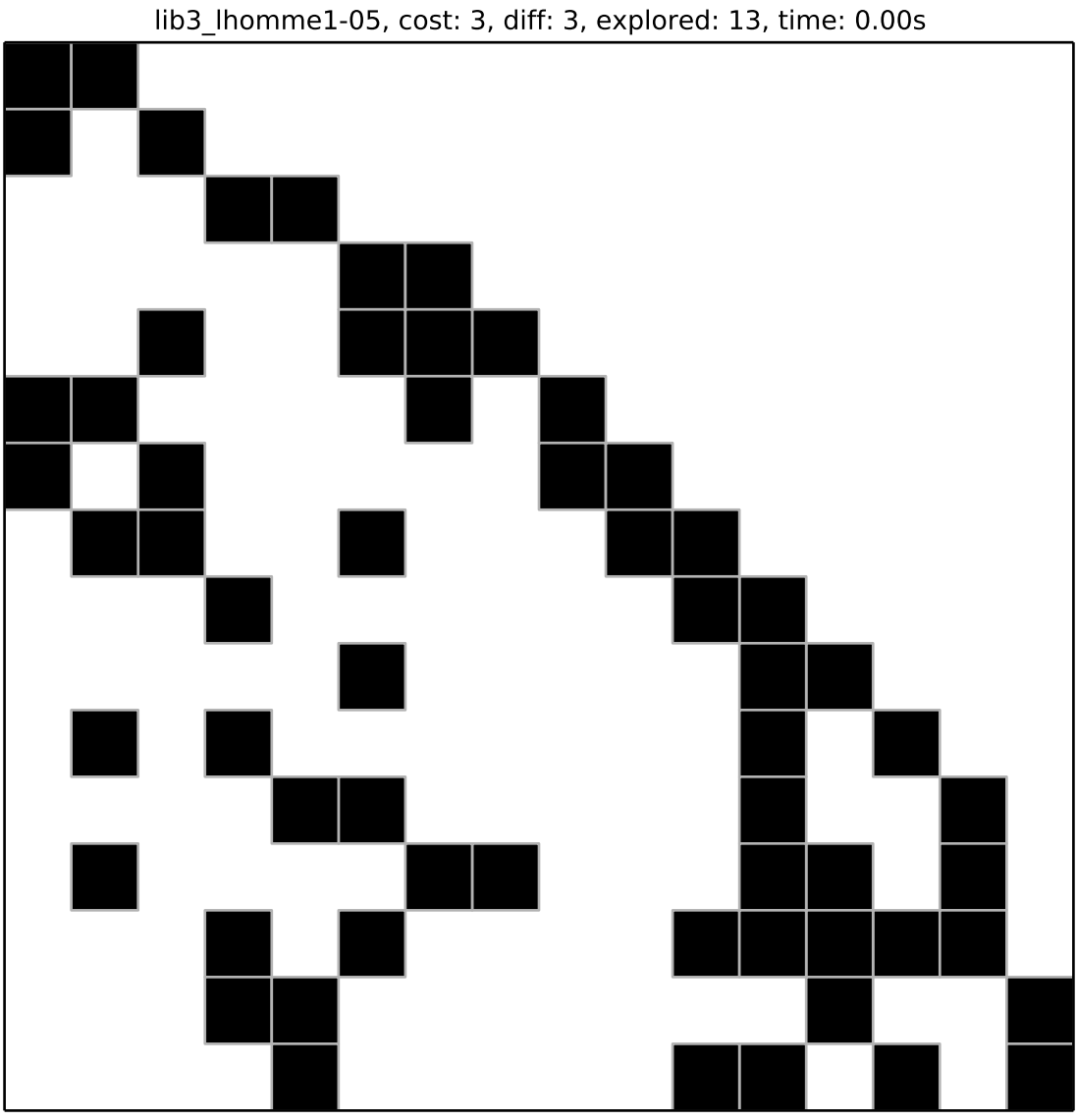
lib3_lhomme1-05 16x16 (61) con: 5, var: 11

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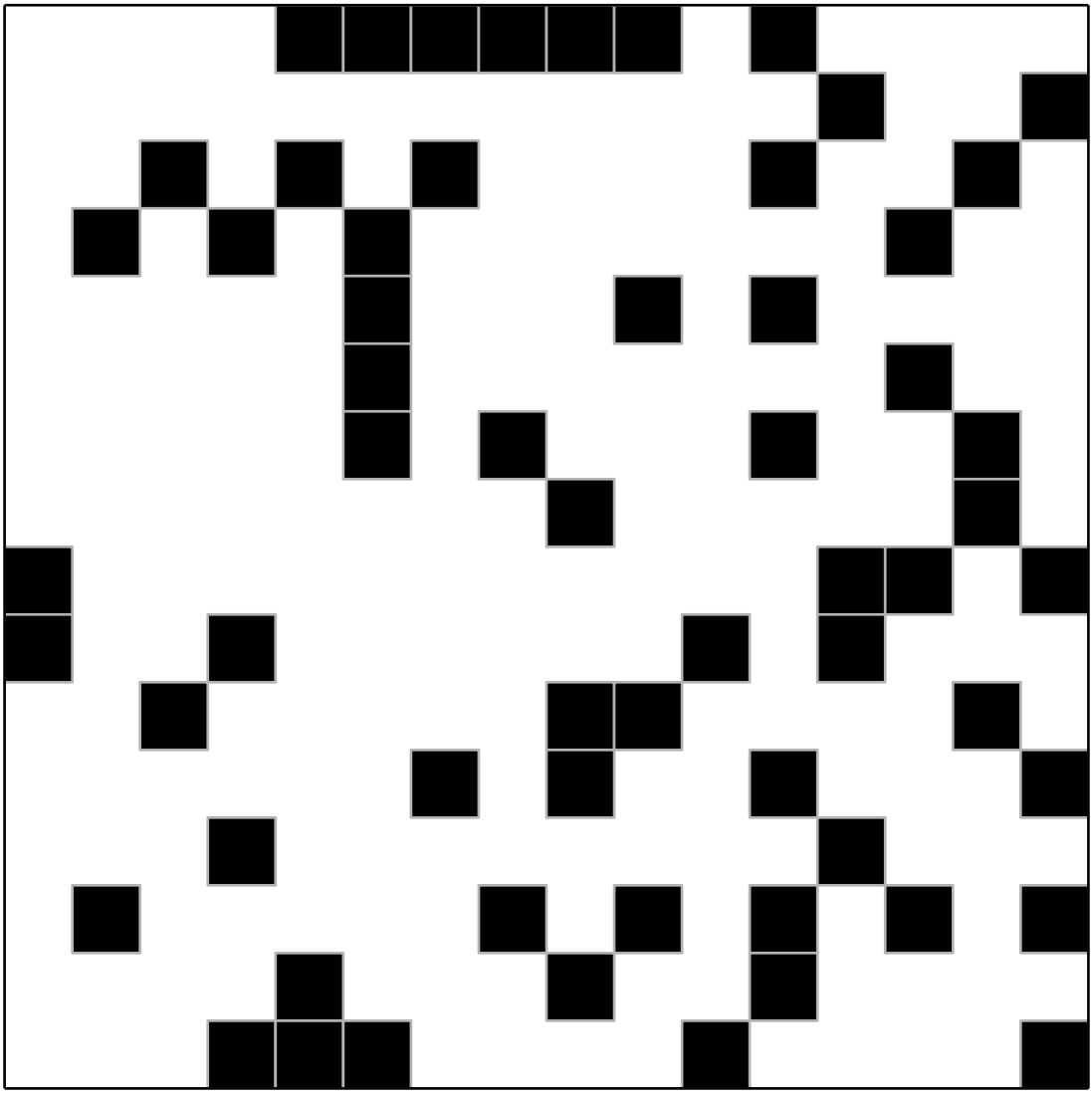
lib3_lhomme1-06 16x16 (61) con: 5, var: 11



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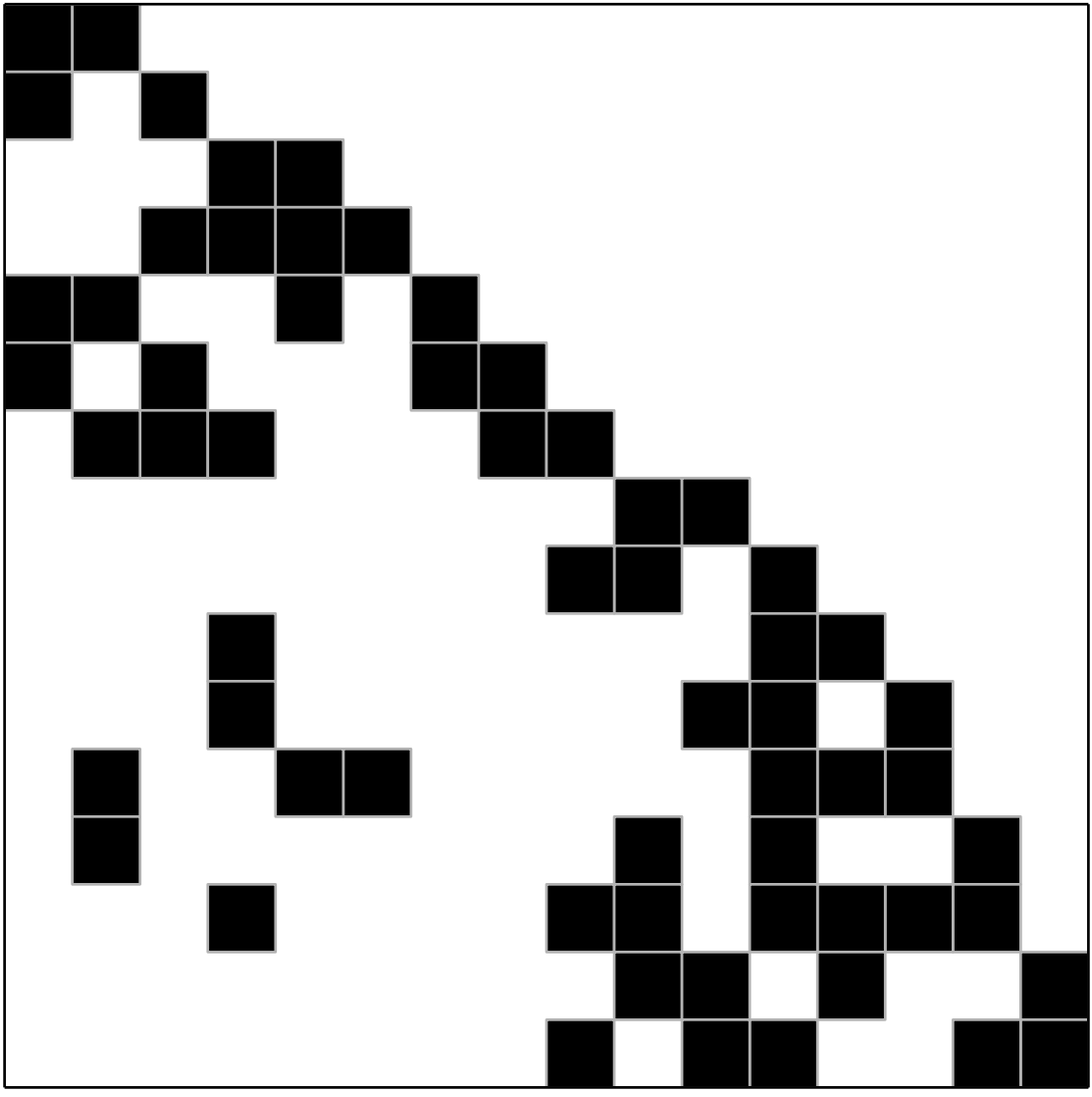
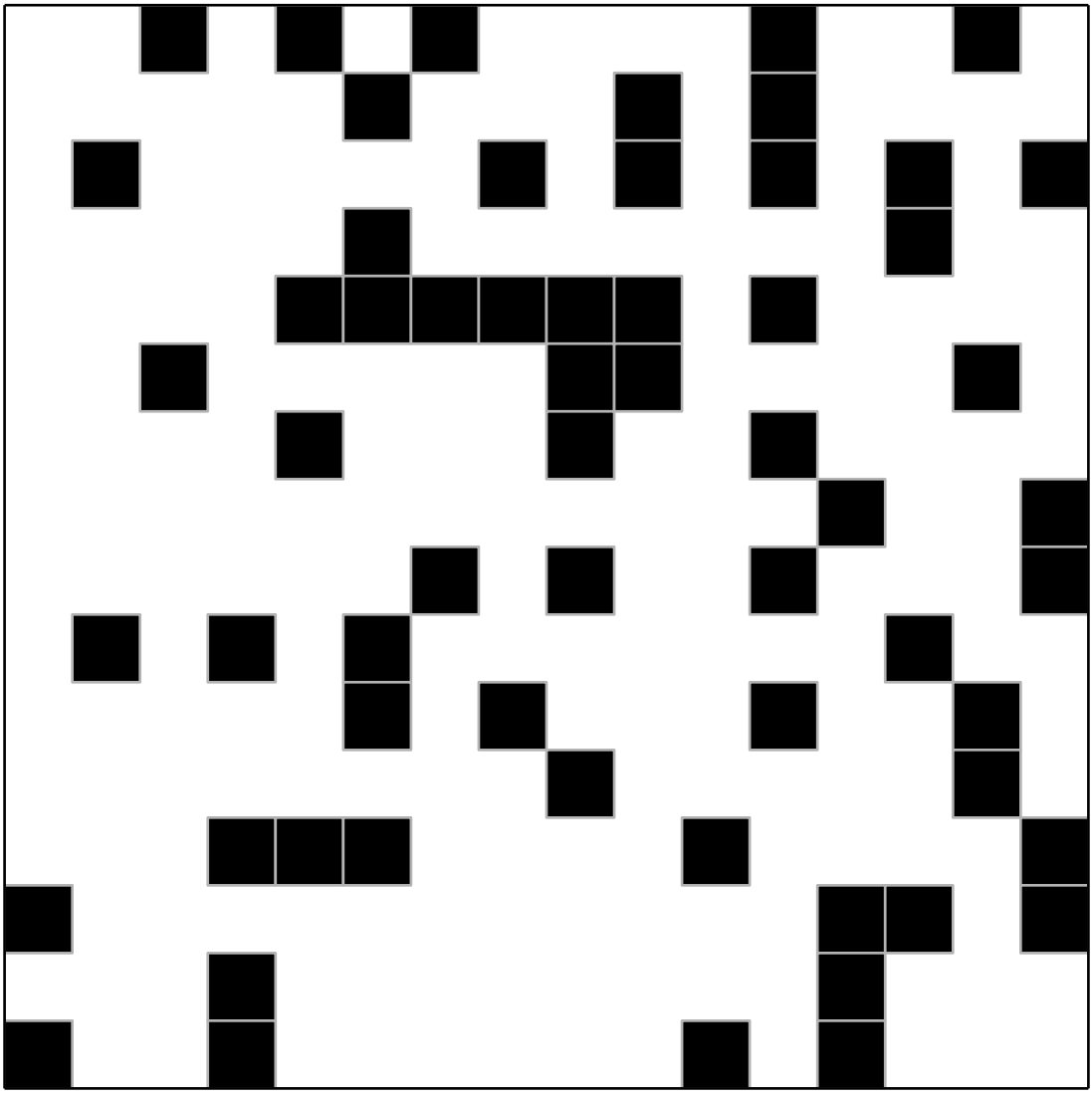
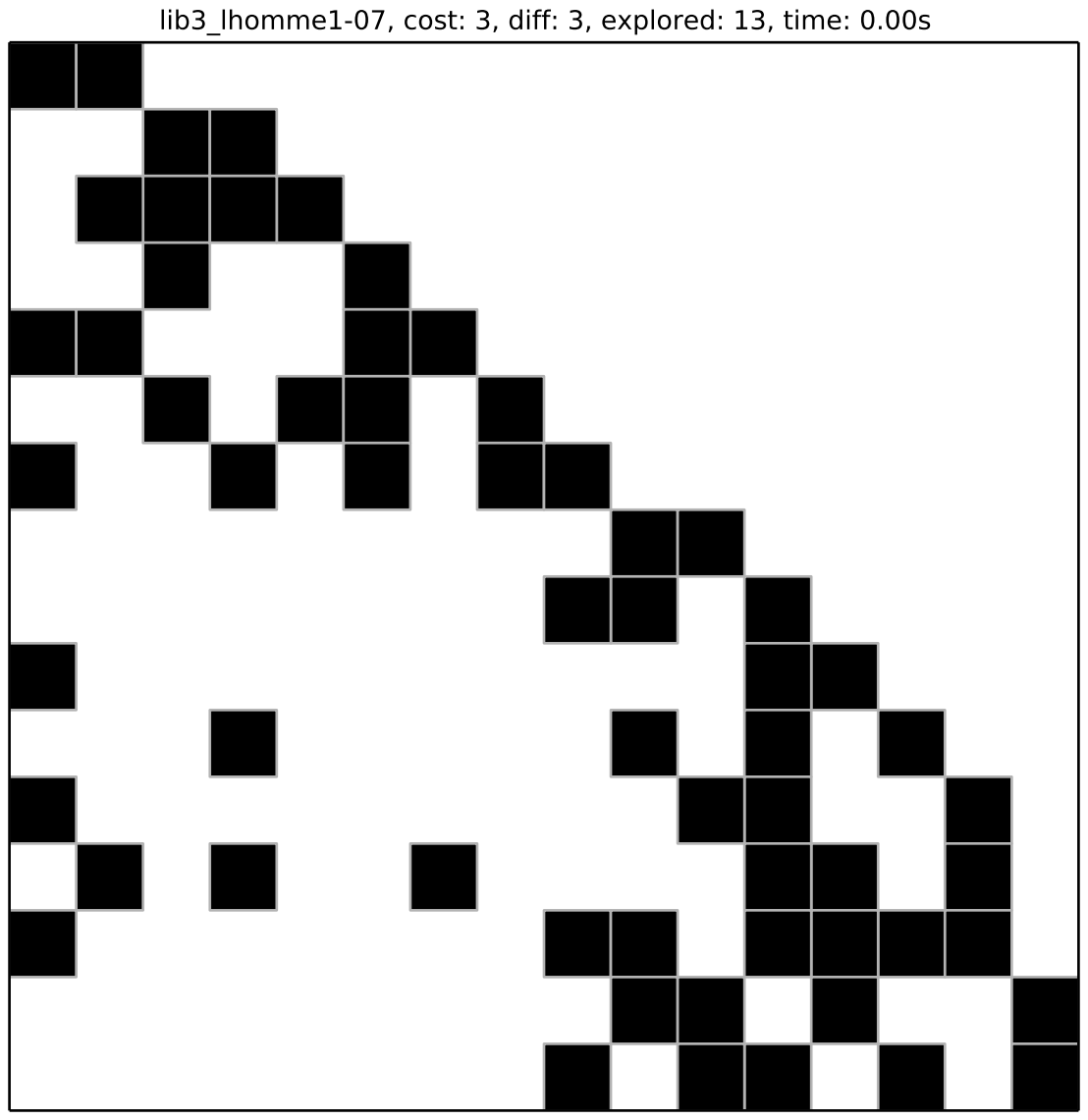


lib3_lhomme1-07 16x16 (61) con: 5, var: 11

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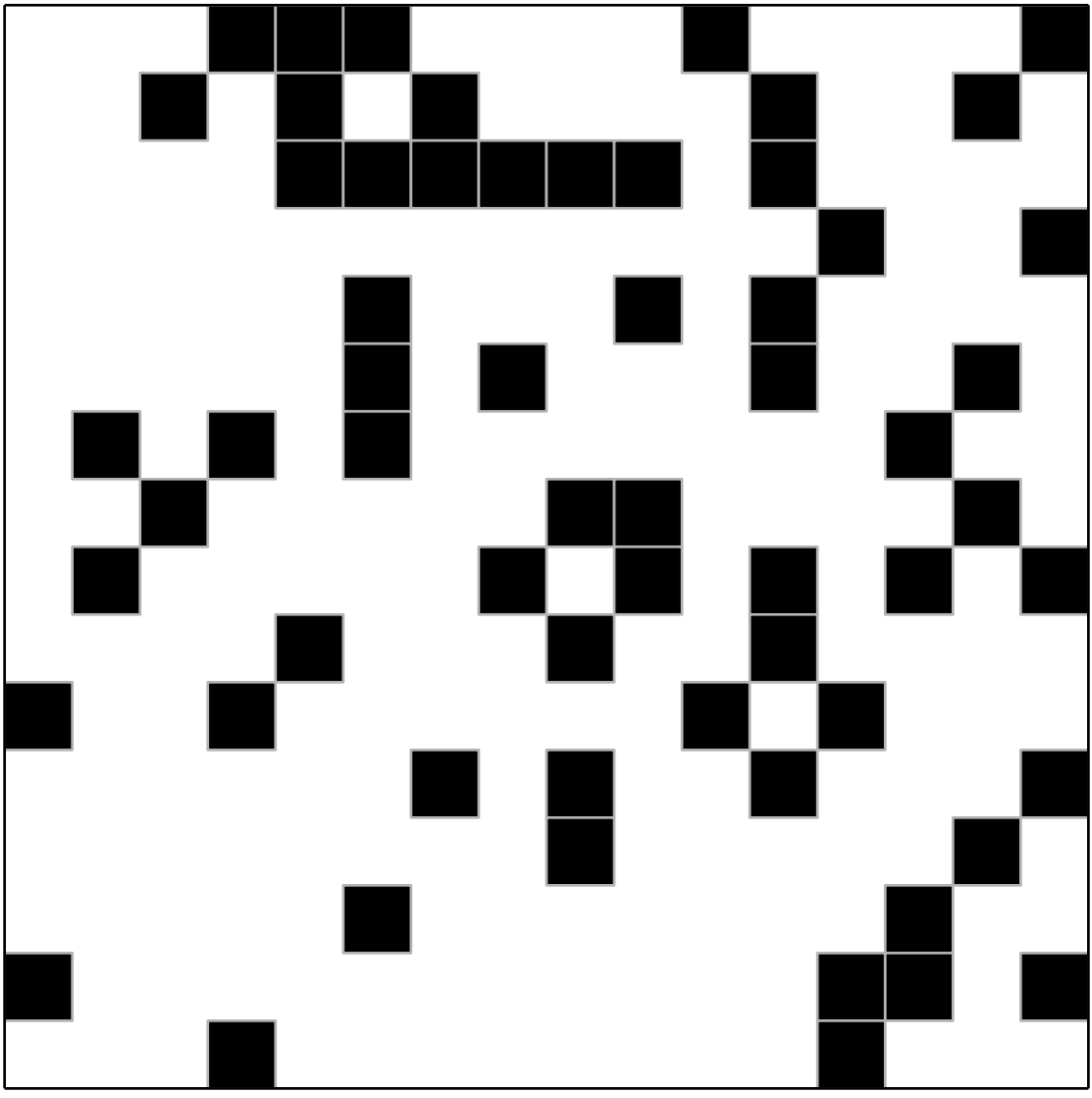
lib3_lhomme1-08 16x16 (61) con: 5, var: 11



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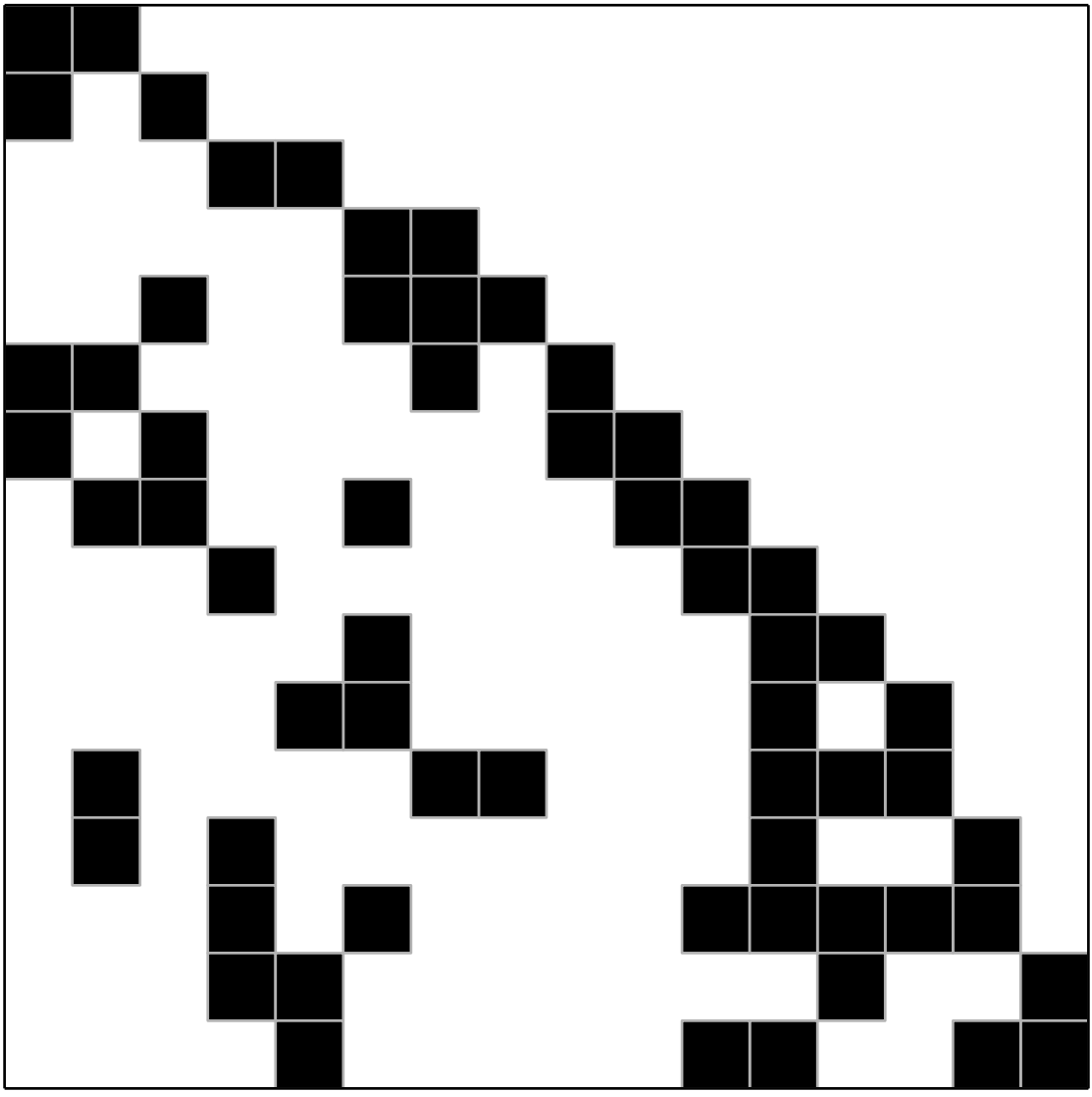
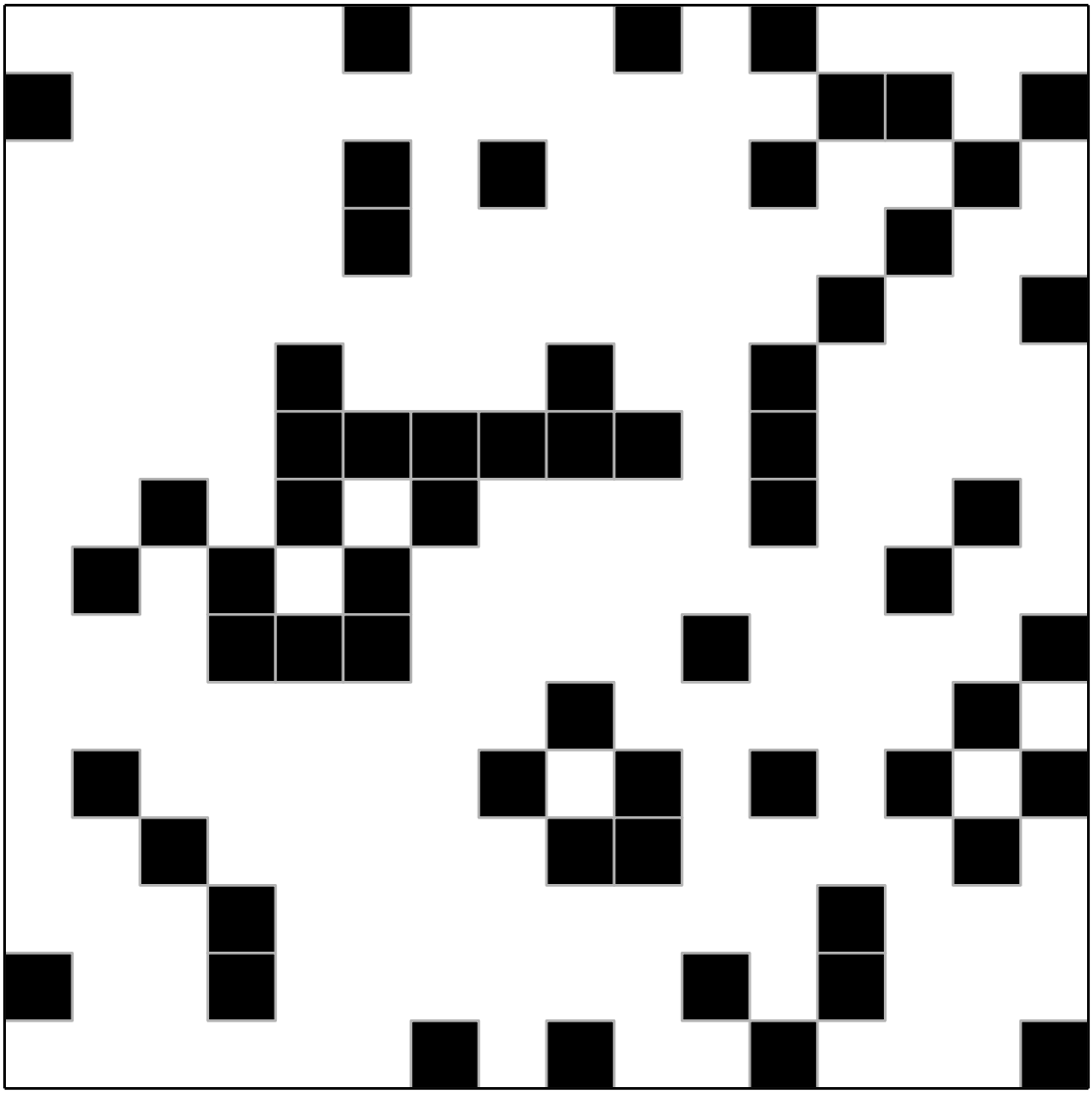


lib3_lhomme1-09 16x16 (61) con: 5, var: 11



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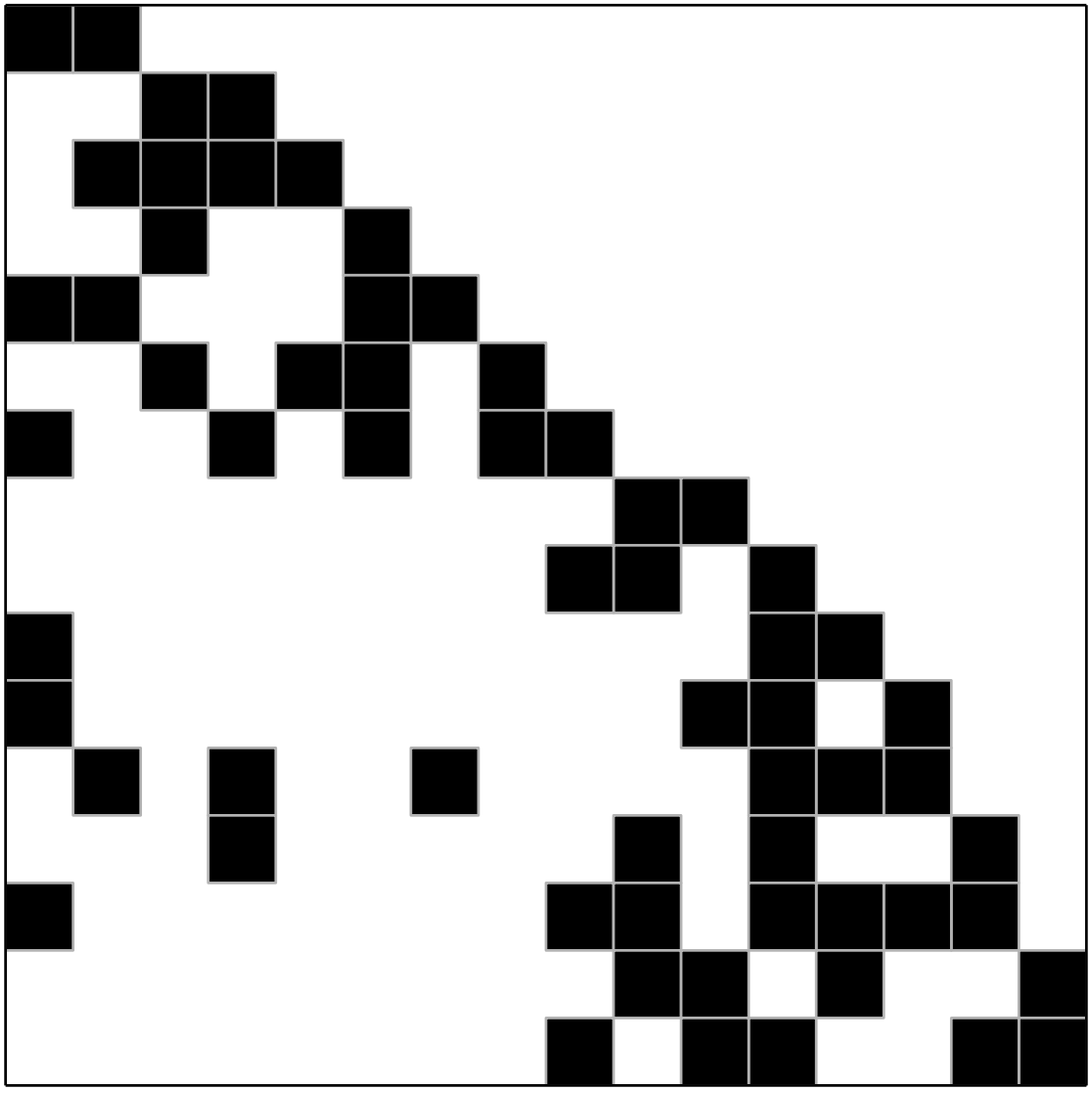
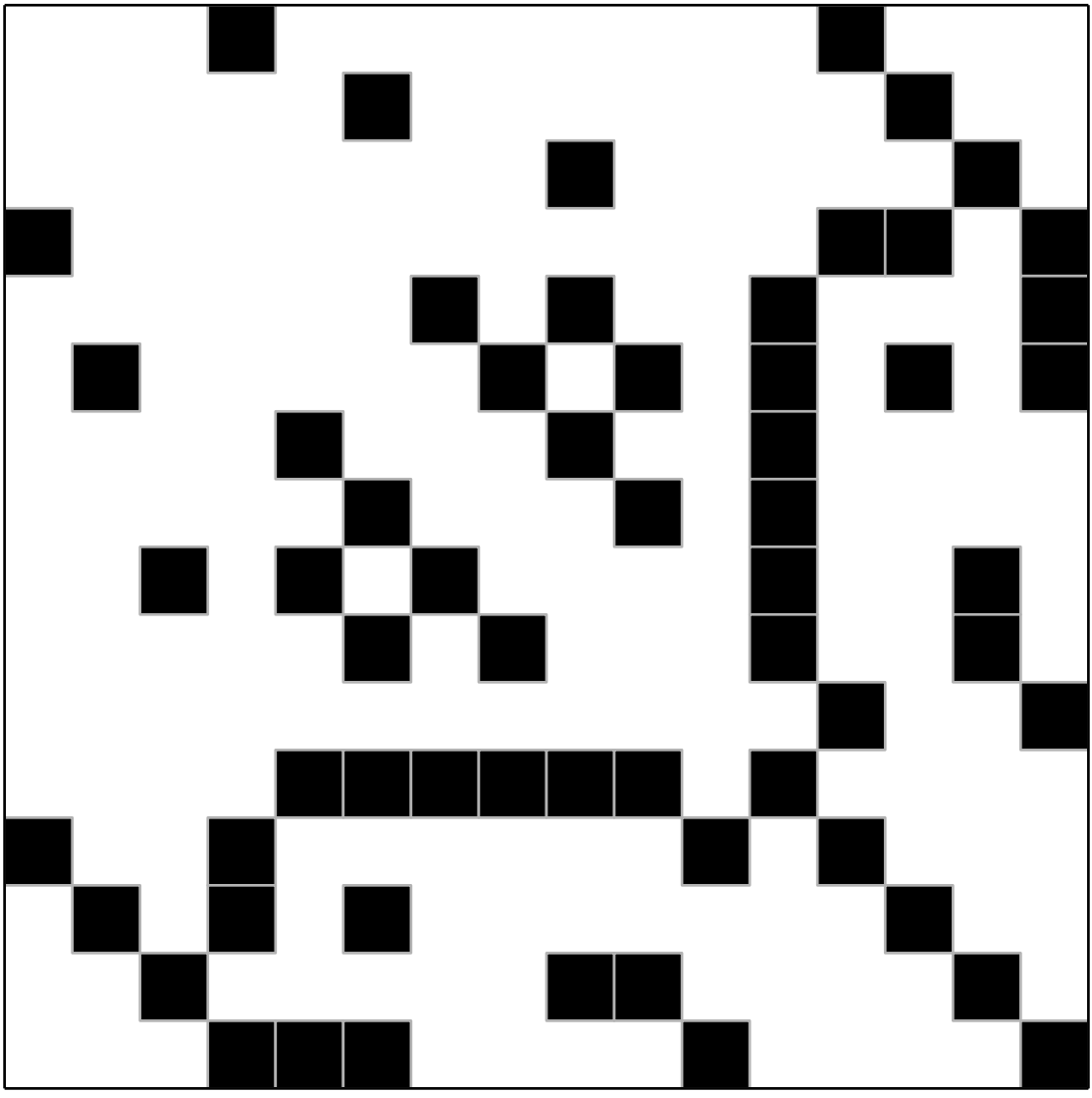
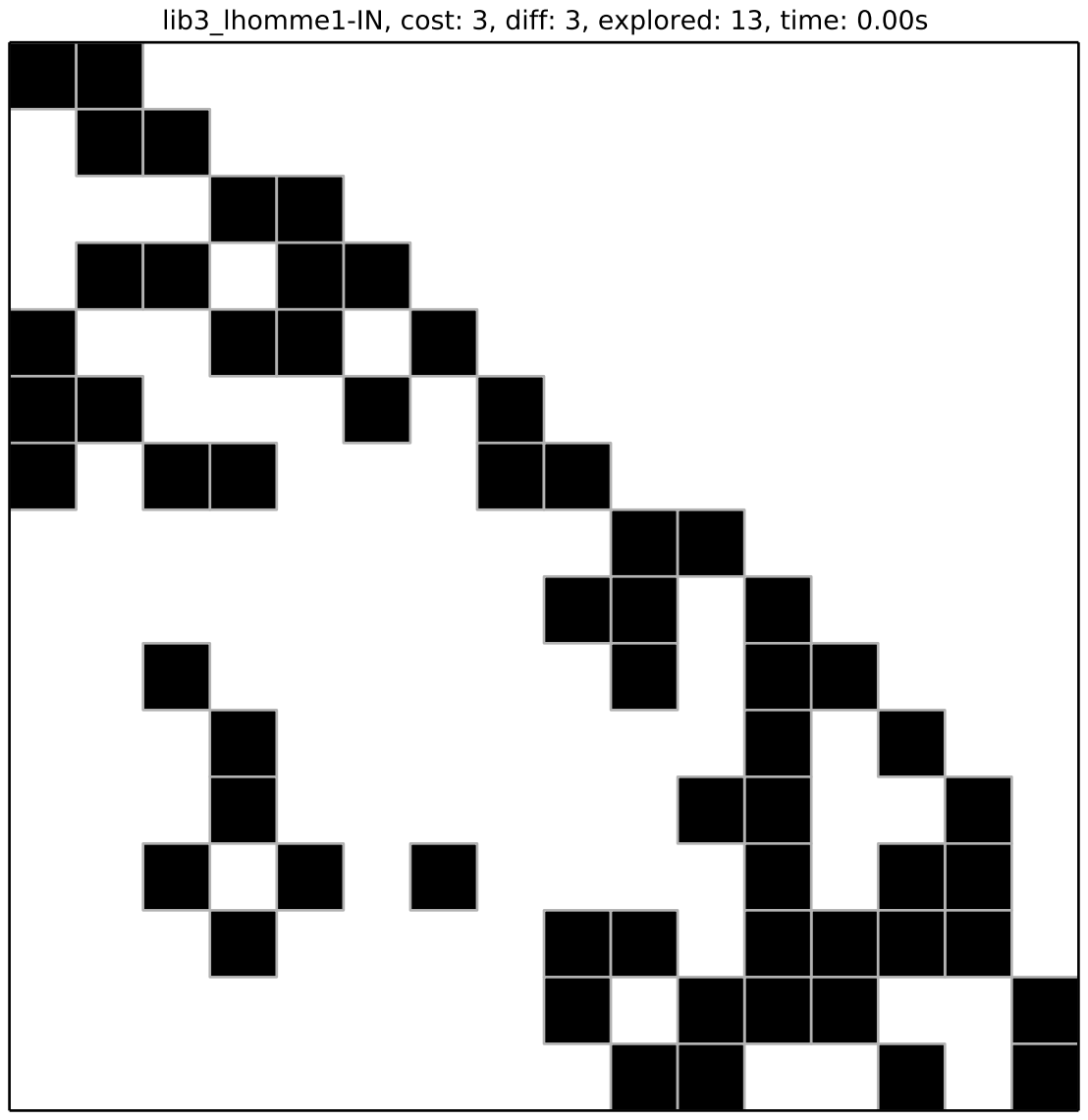


lib3_lhomme1-IN 16x16 (61) con: 5, var: 11

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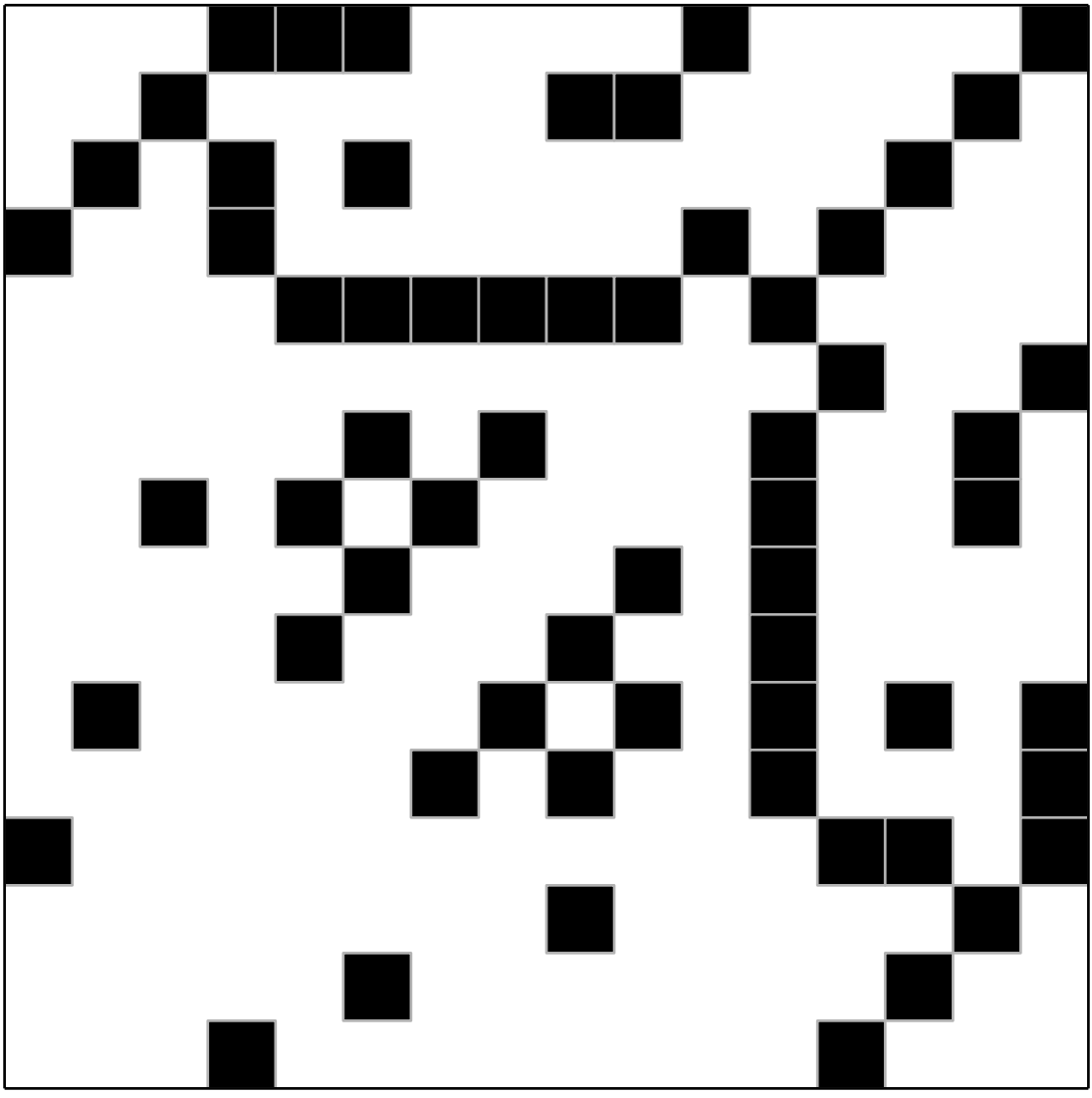
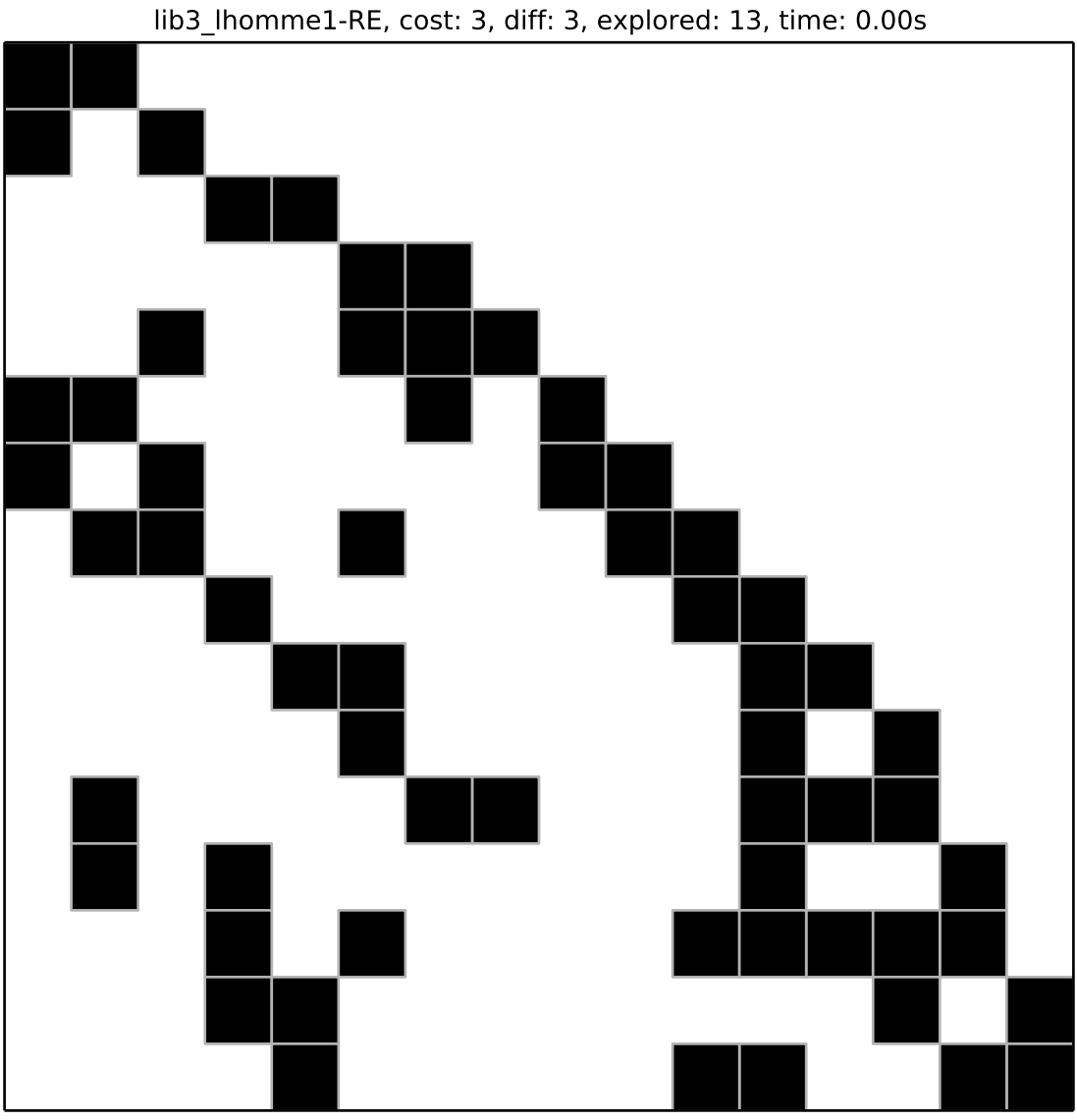
lib3_lhomme1-RE 16x16 (61) con: 5, var: 11

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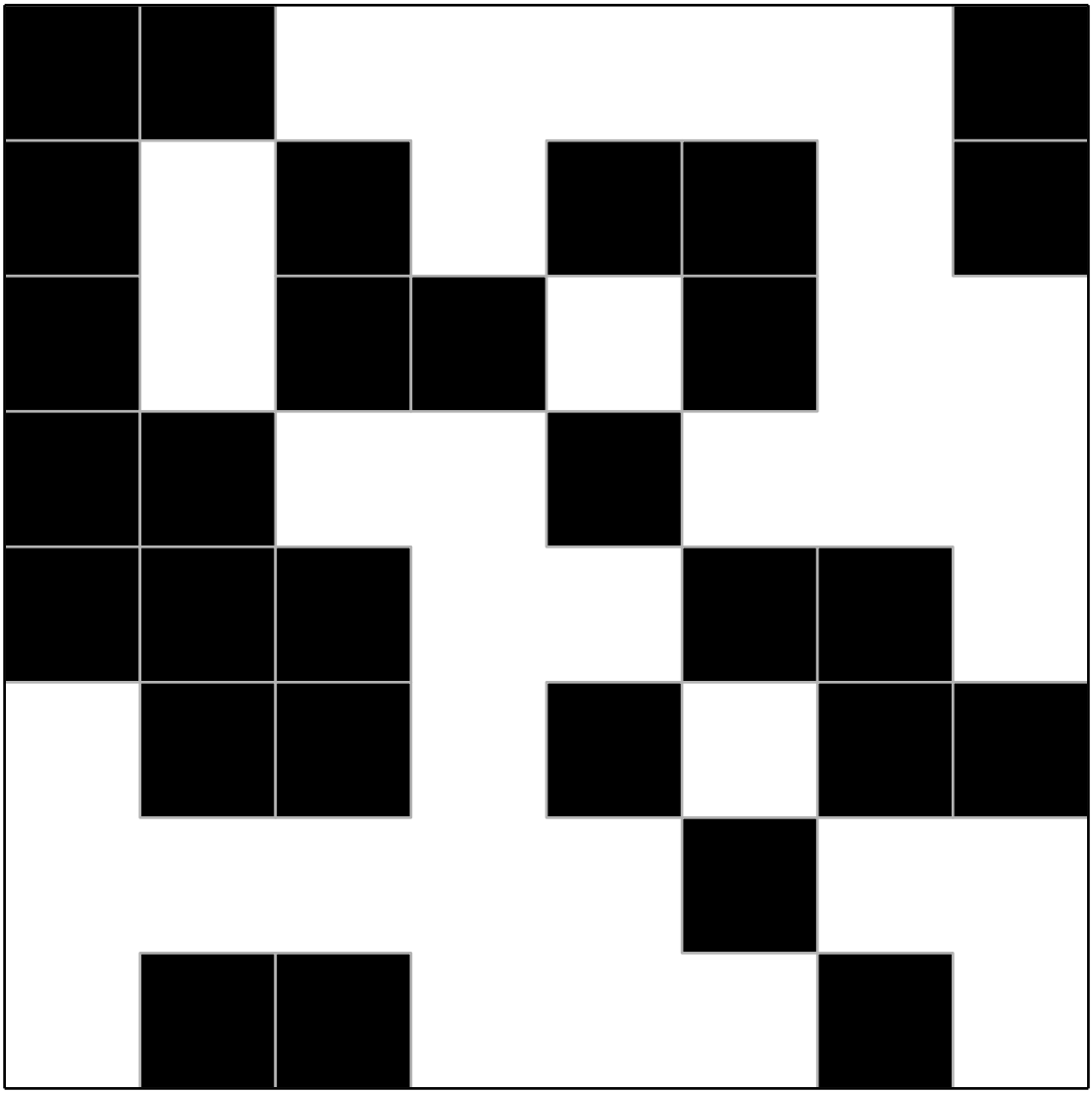
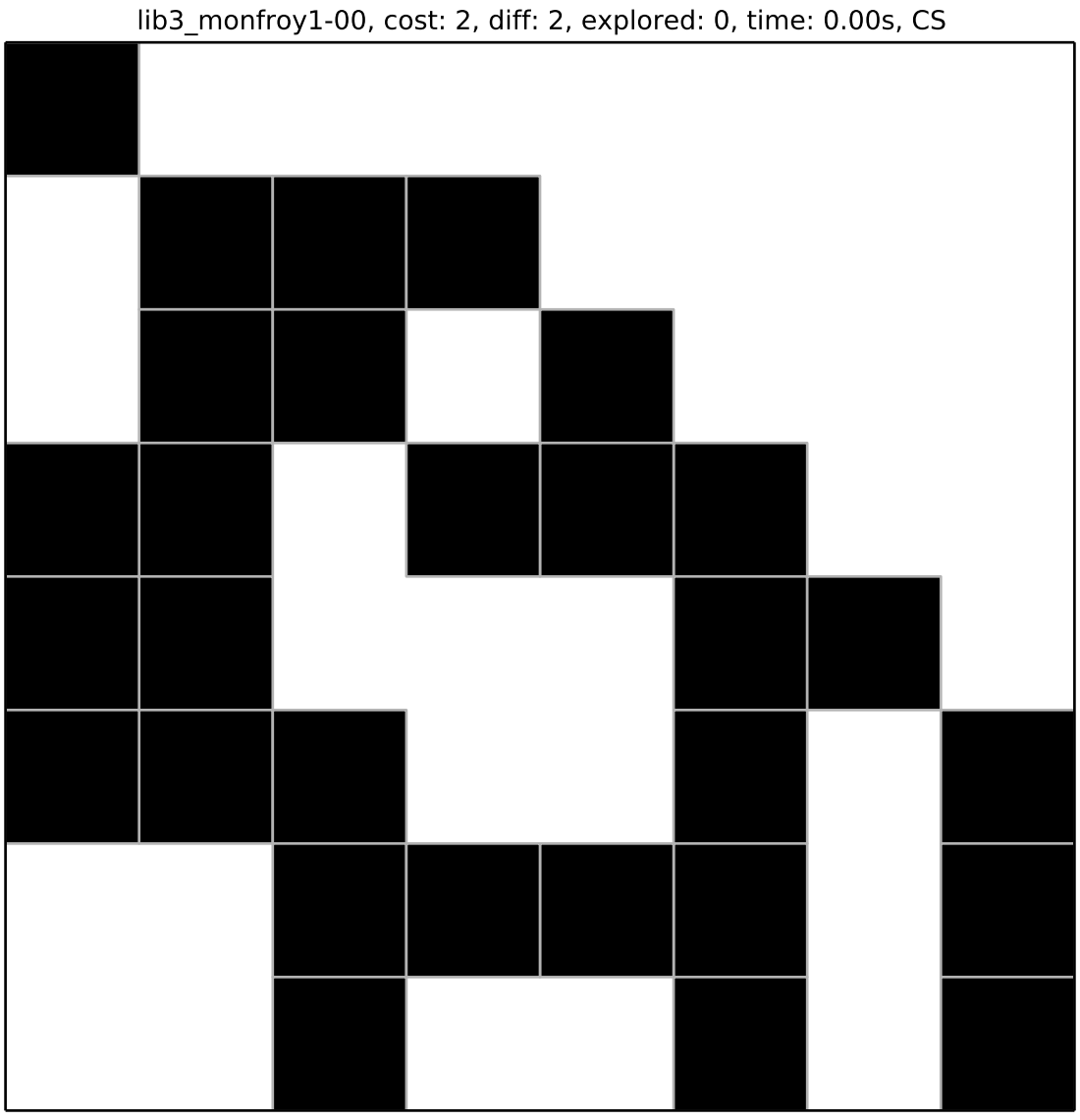
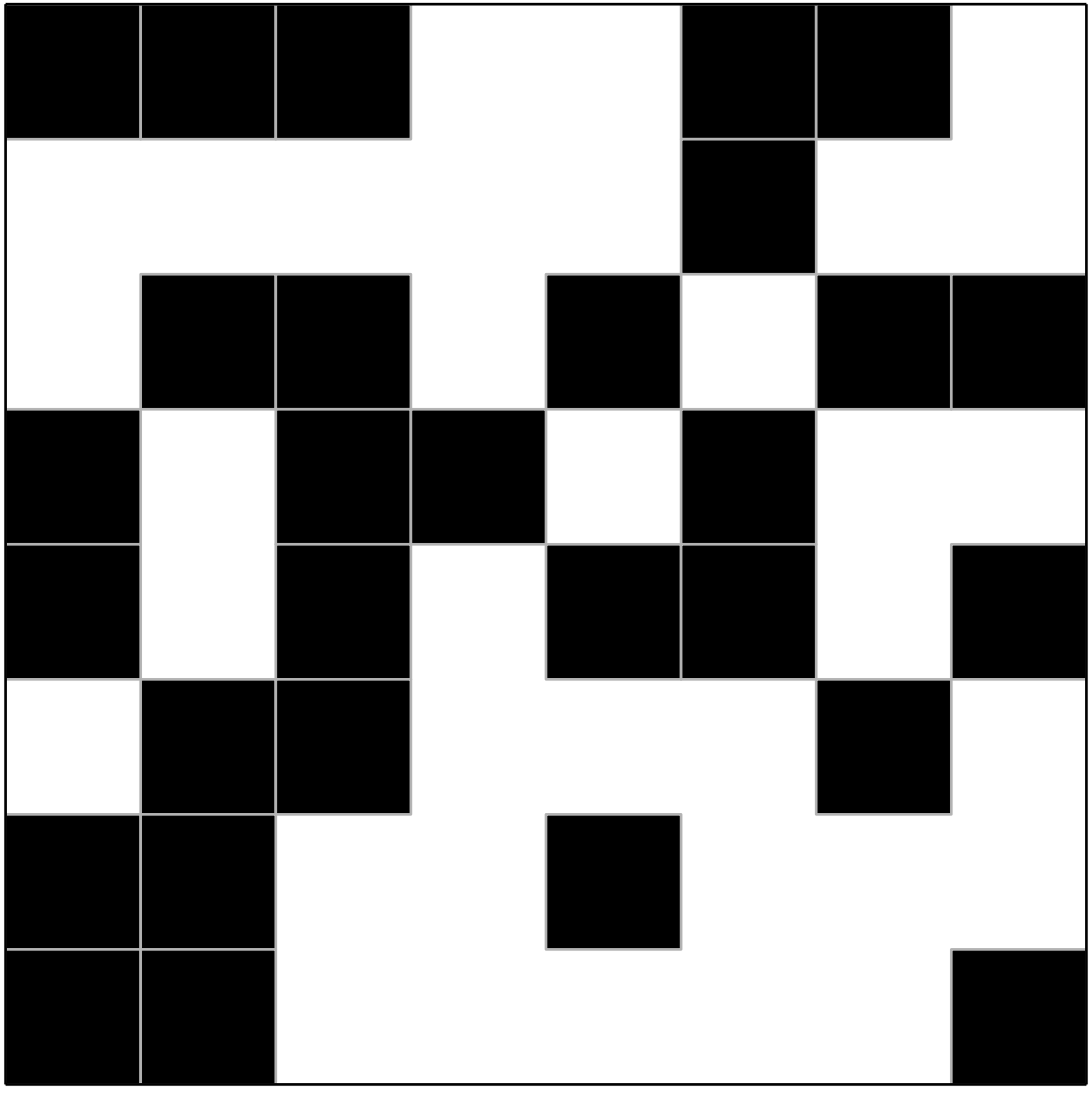
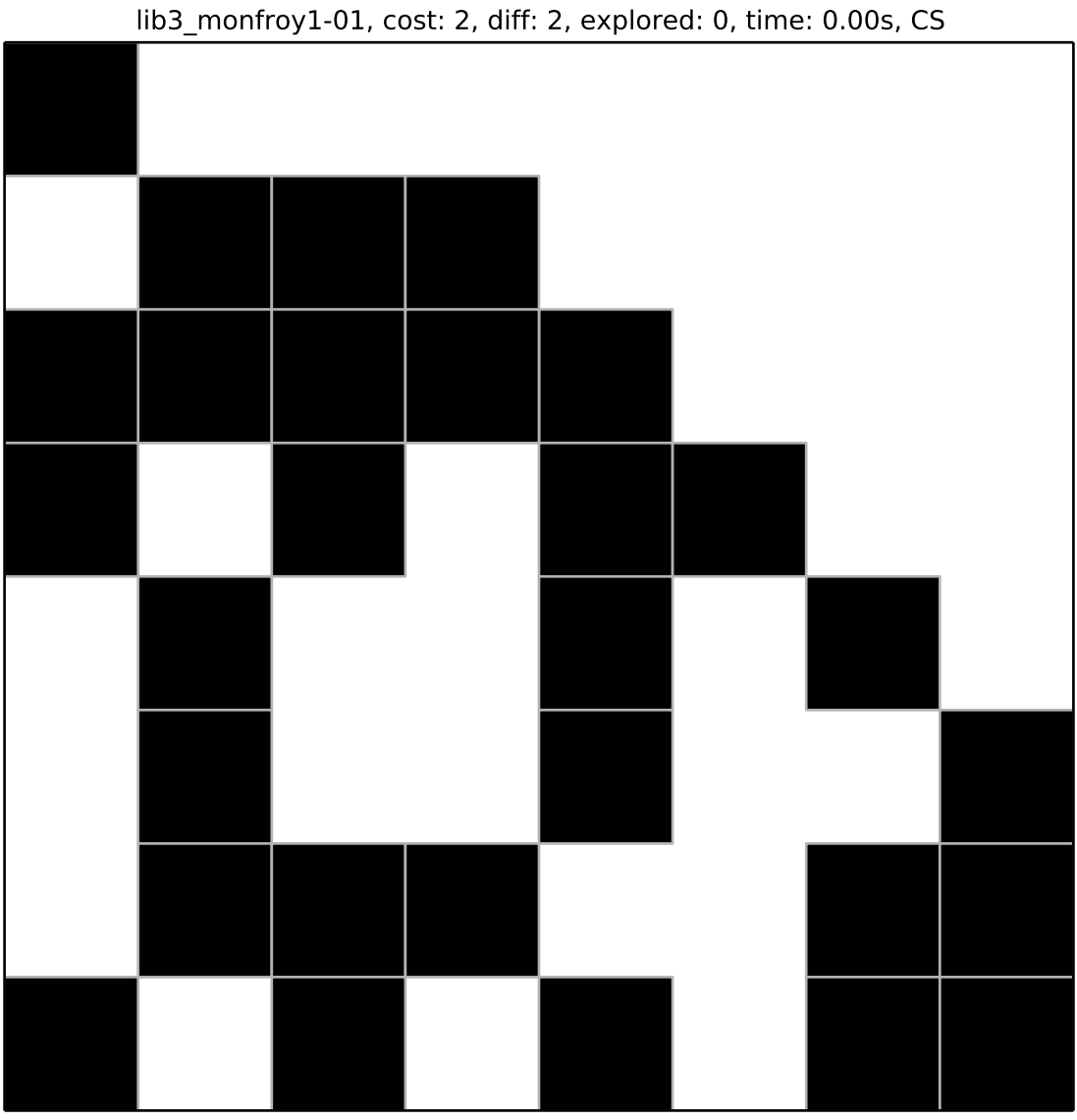
lib3_monfroy1-00 8x8 (29) con: 4, var: 4




lib3_monfroy1-00, cost: 2, diff: 2, explored: 0, time: 0.00s, CS

lib3_monfroy1-01 8x8 (29) con: 4, var: 4

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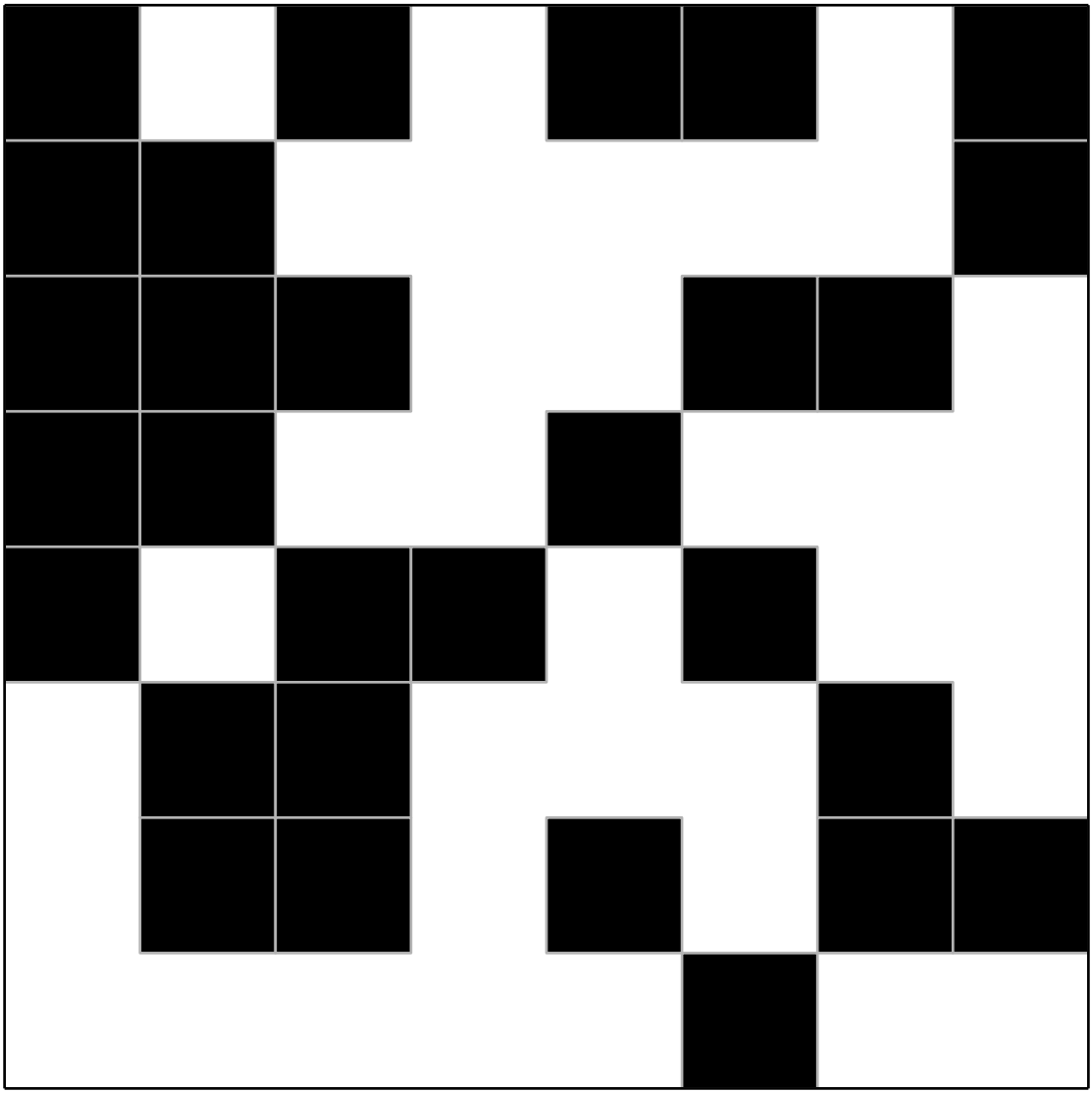
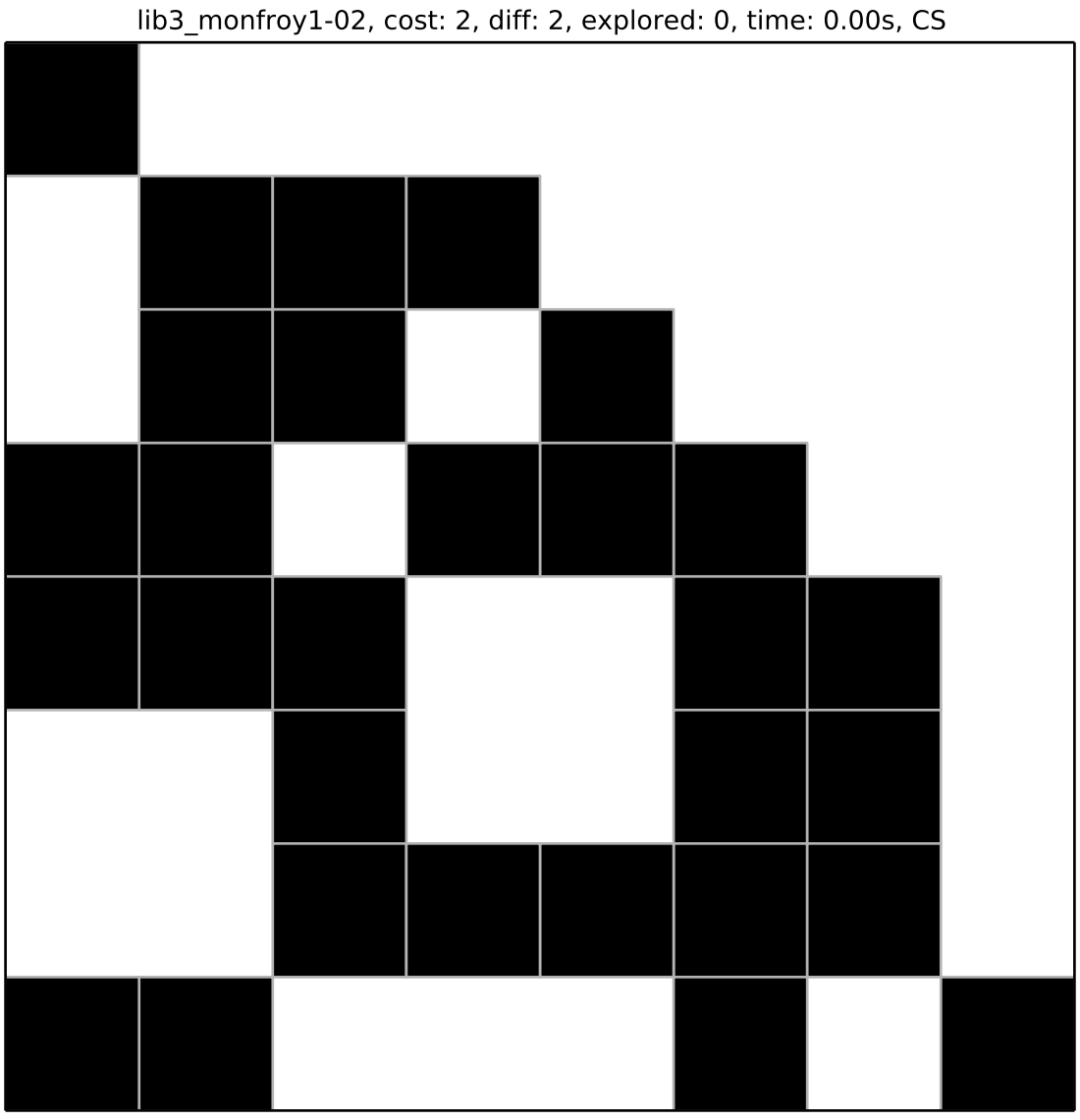
lib3_monfroy1-02 8x8 (29) con: 4, var: 4

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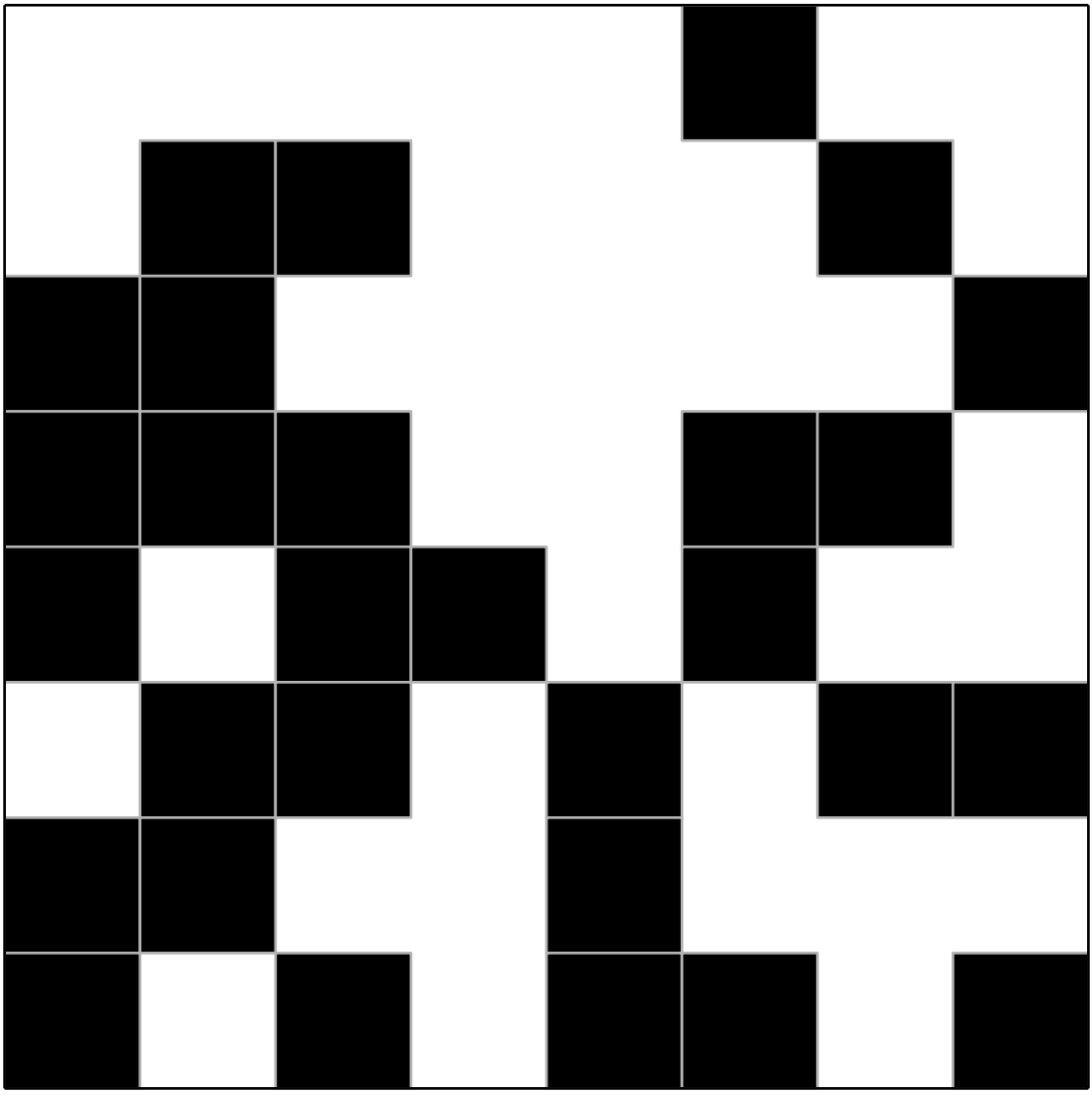
lib3_monfroy1-03 8x8 (29) con: 4, var: 4



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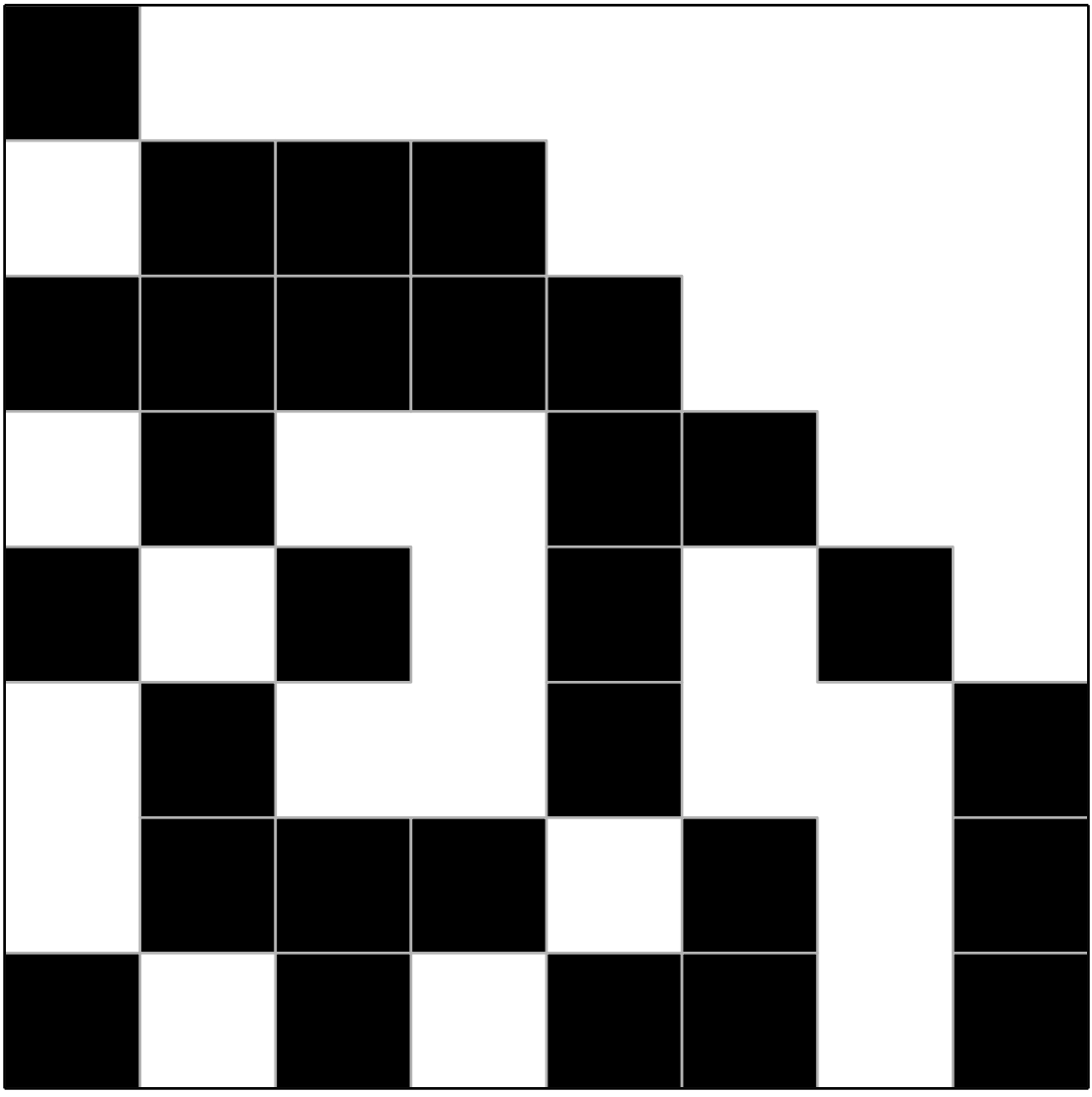
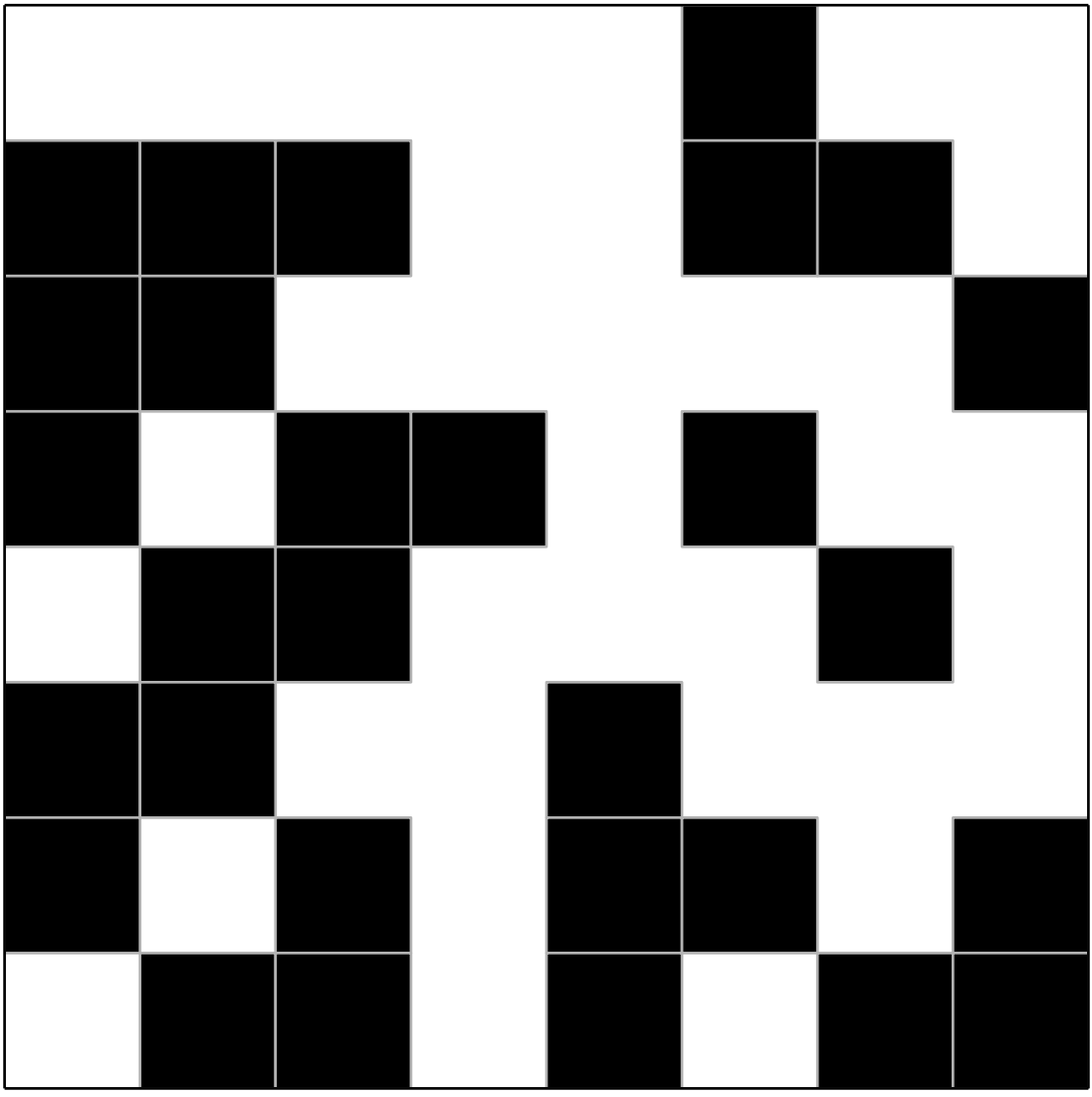
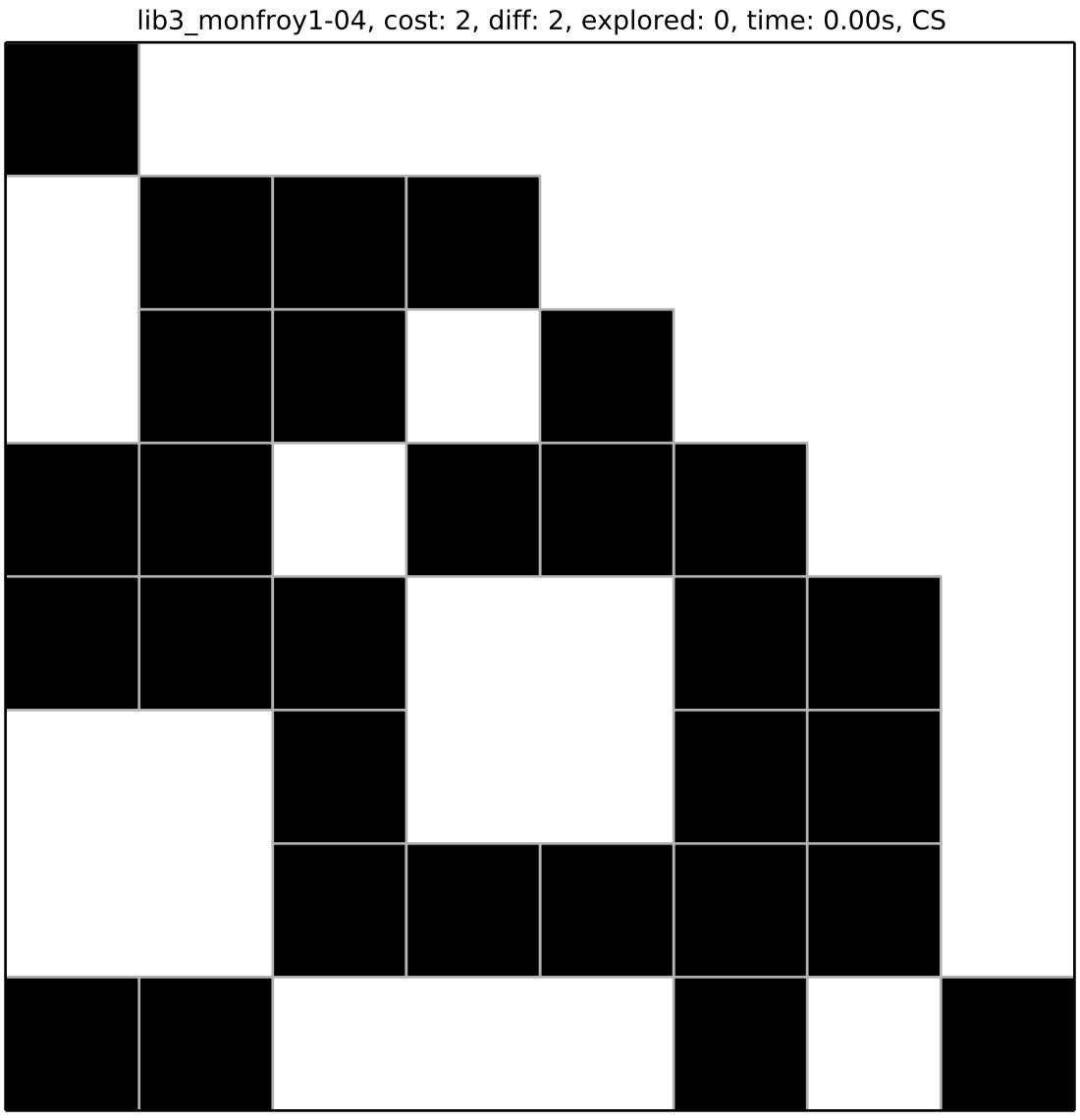


lib3_monfroy1-04 8x8 (29) con: 4, var: 4

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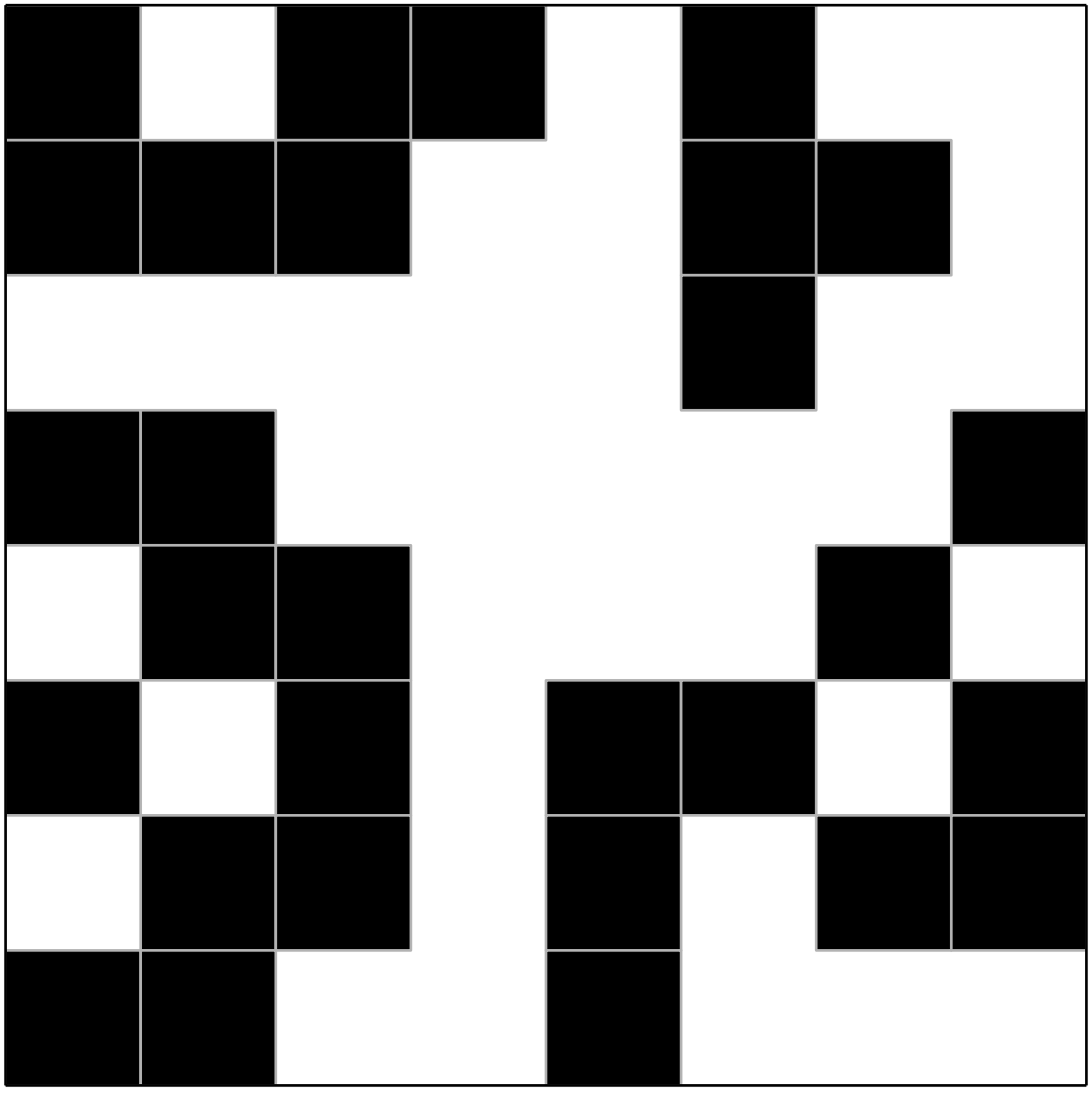
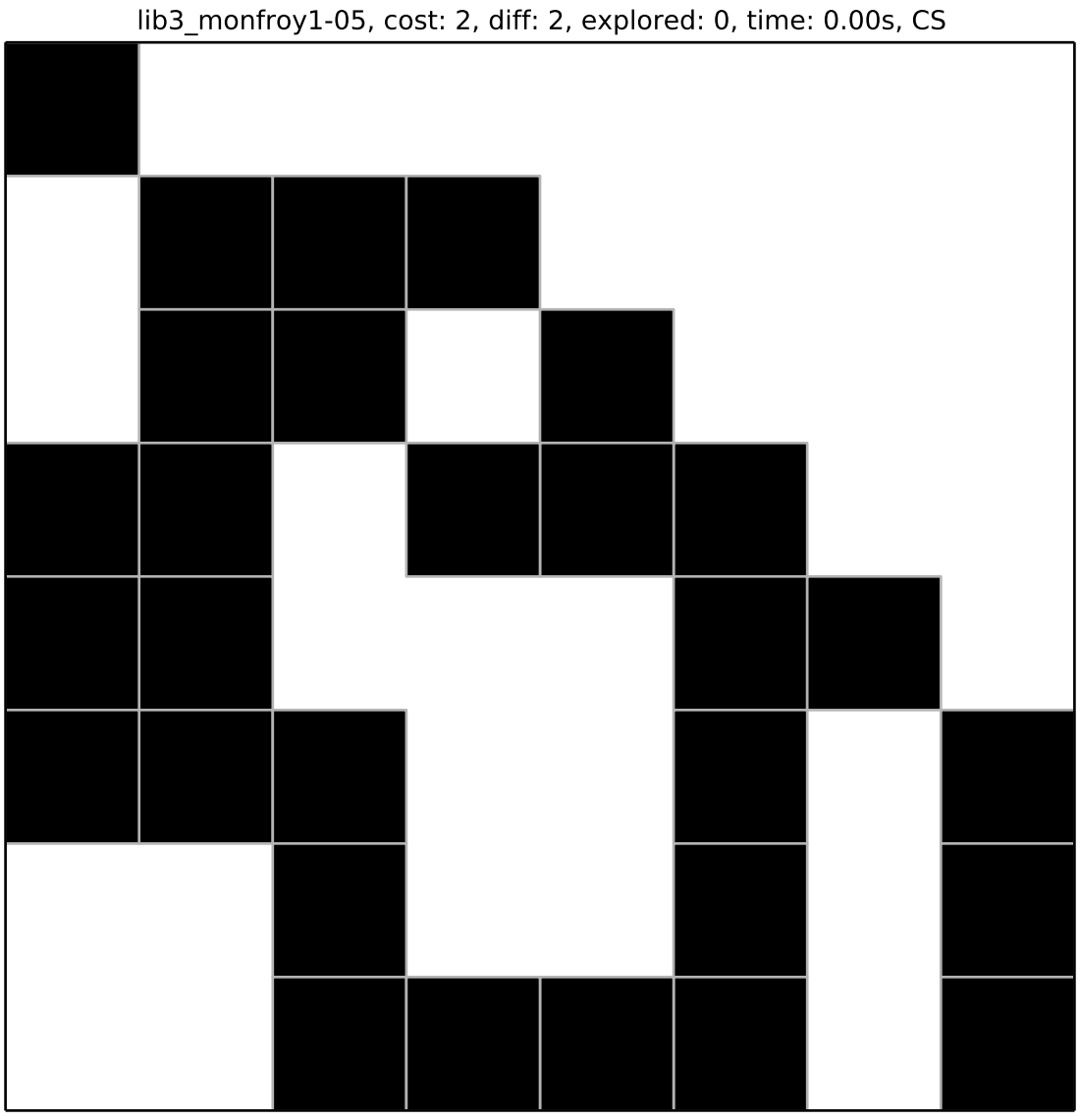
lib3_monfroy1-05 8x8 (29) con: 4, var: 4

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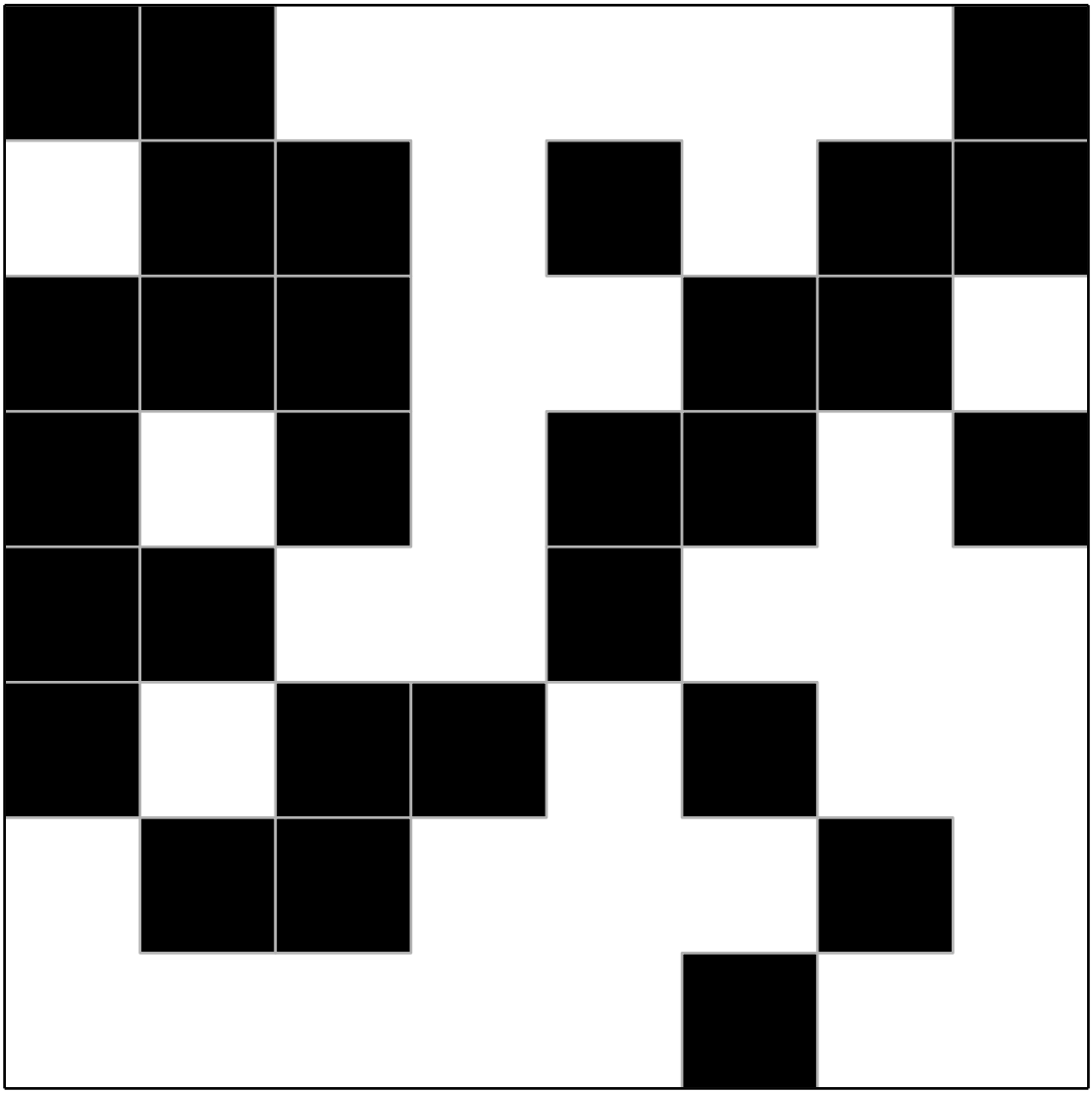
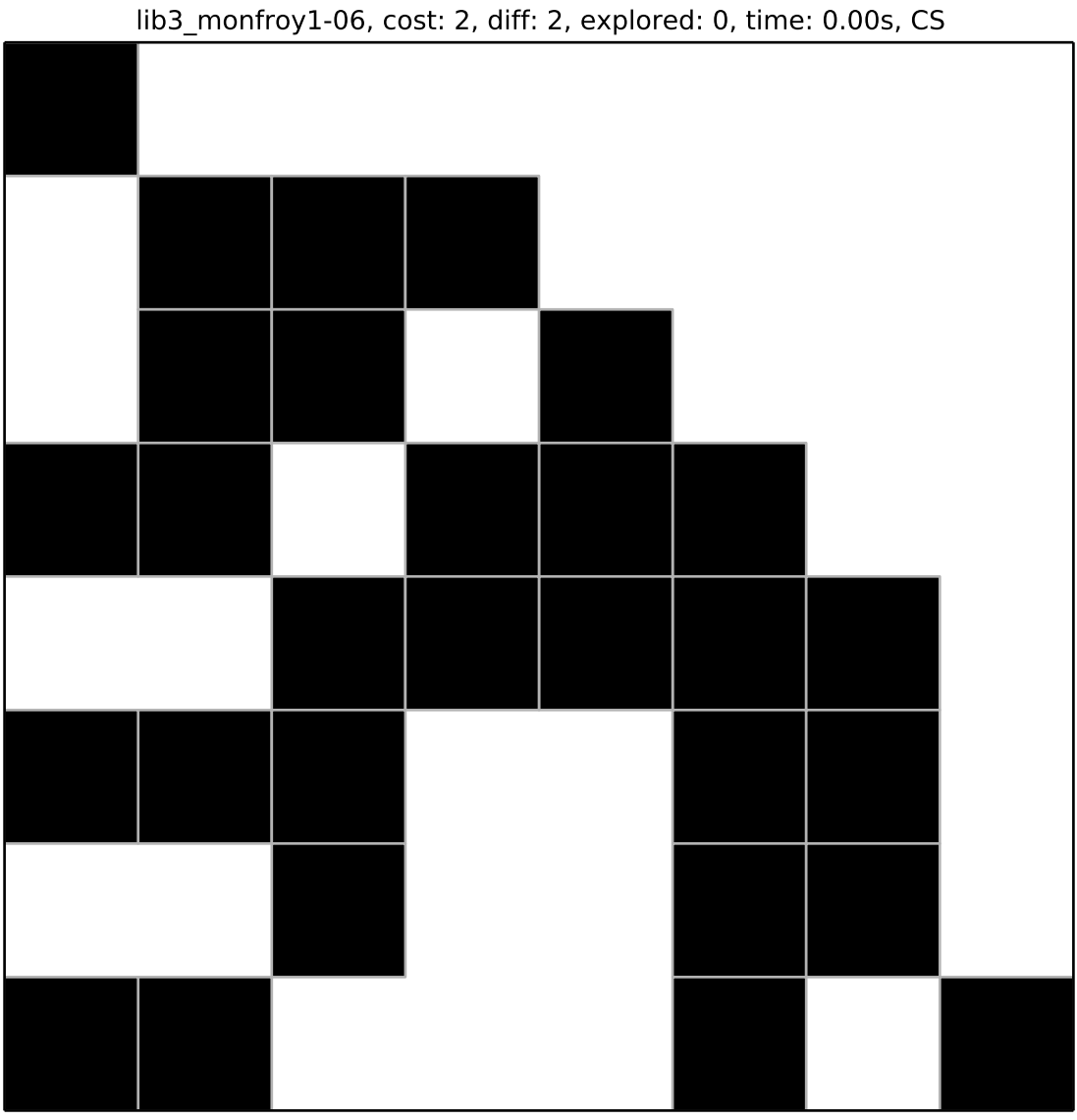
lib3_monfroy1-06 8x8 (29) con: 4, var: 4

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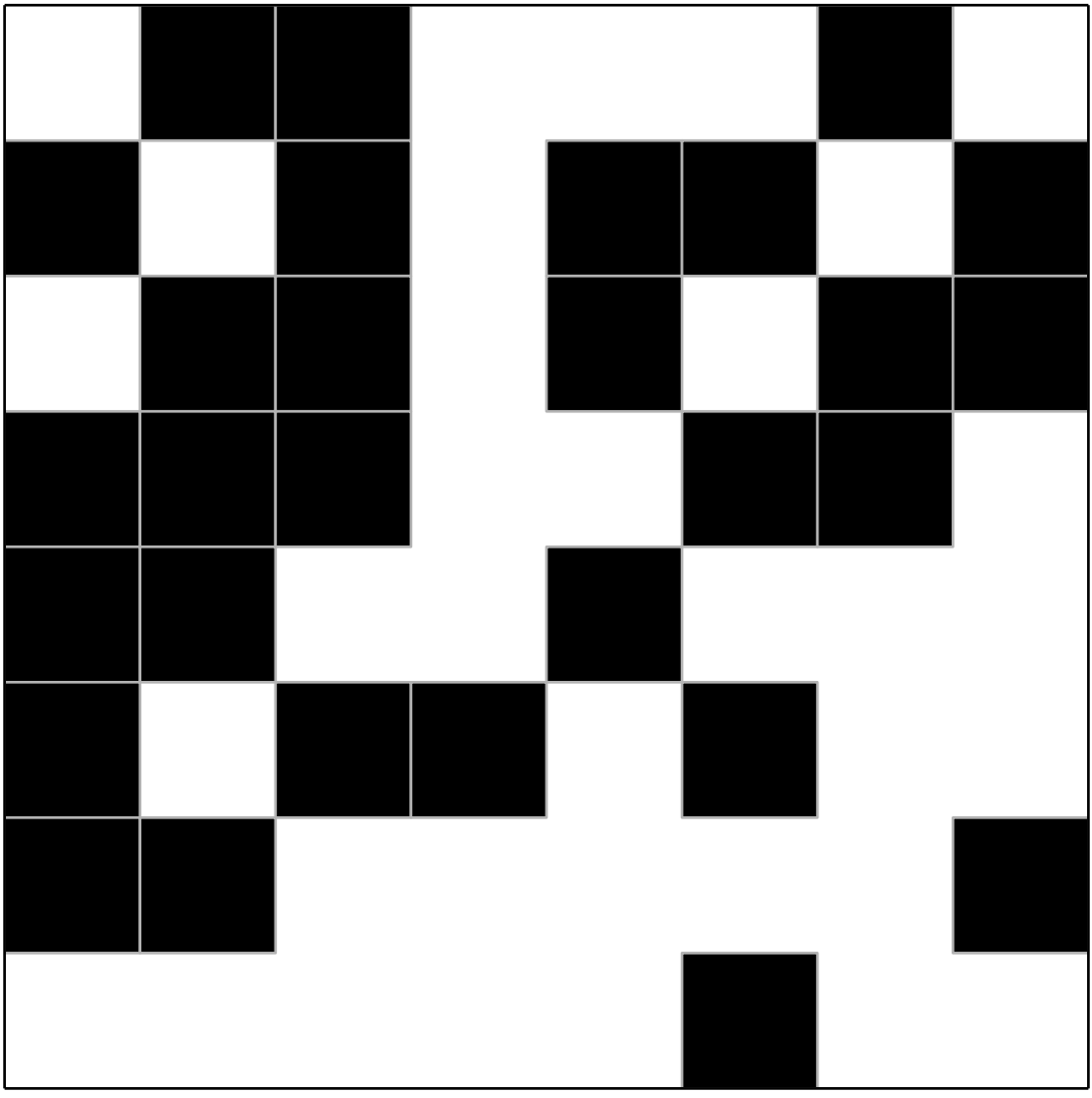
lib3_monfroy1-07 8x8 (29) con: 4, var: 4



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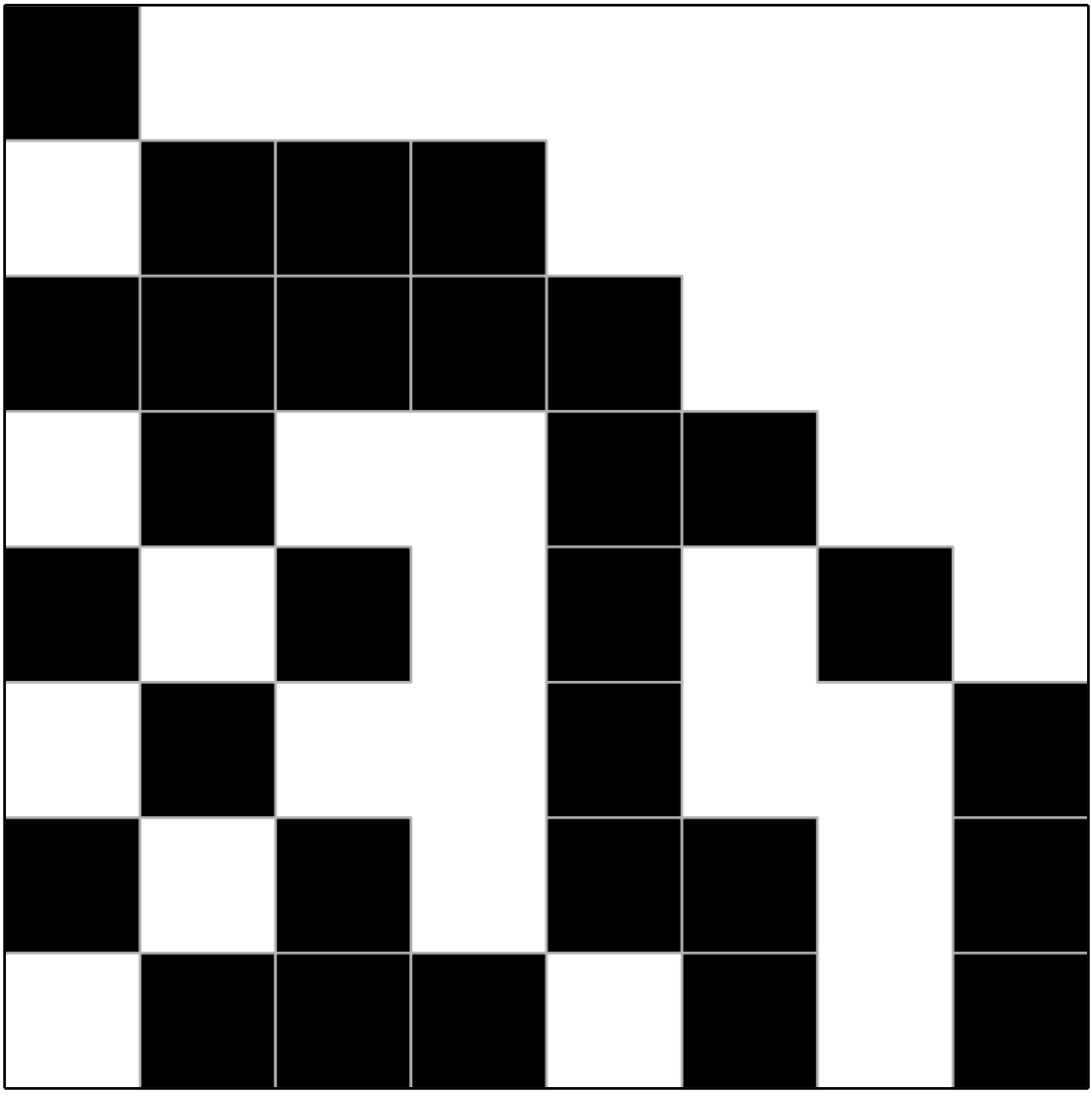
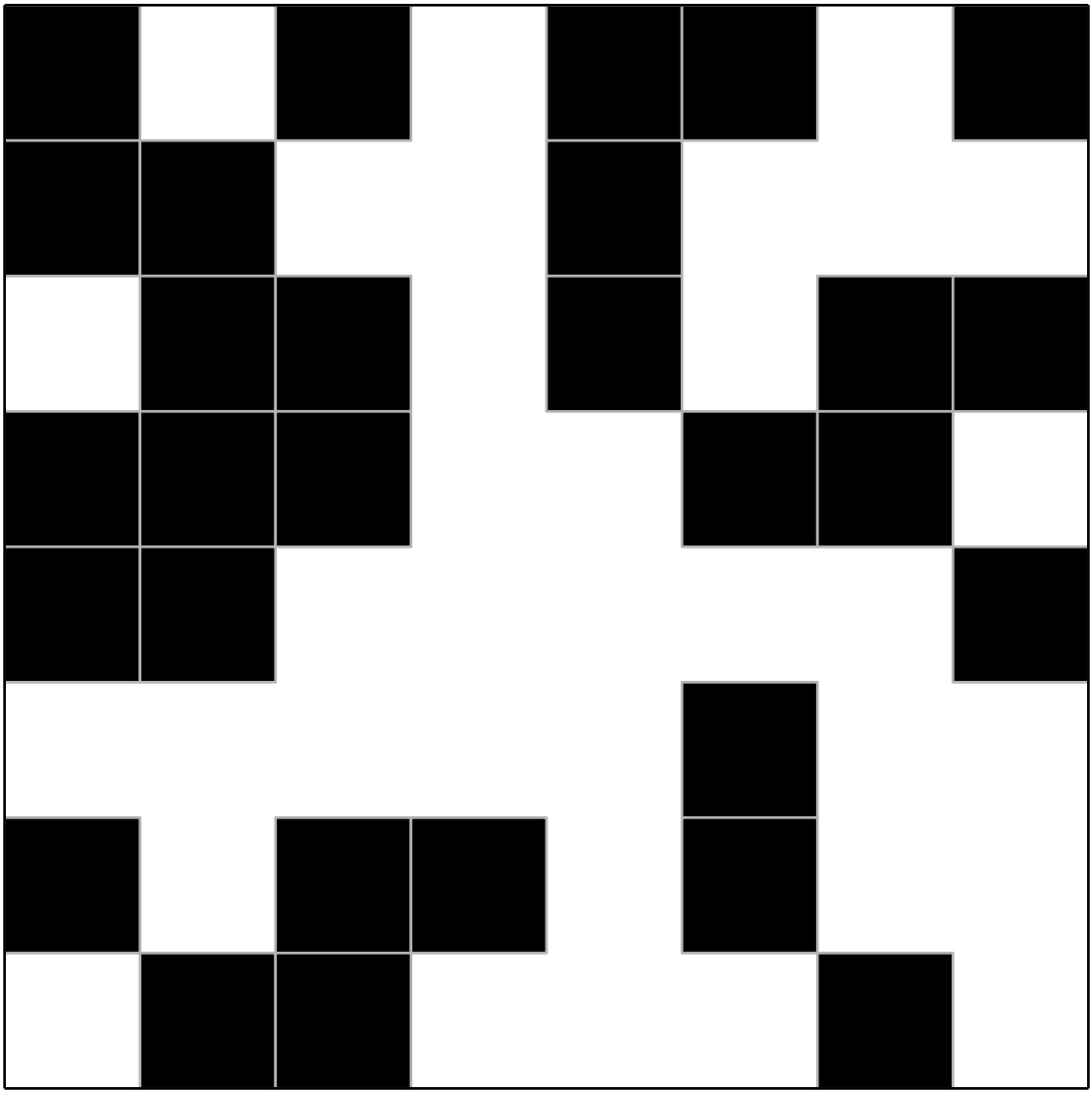
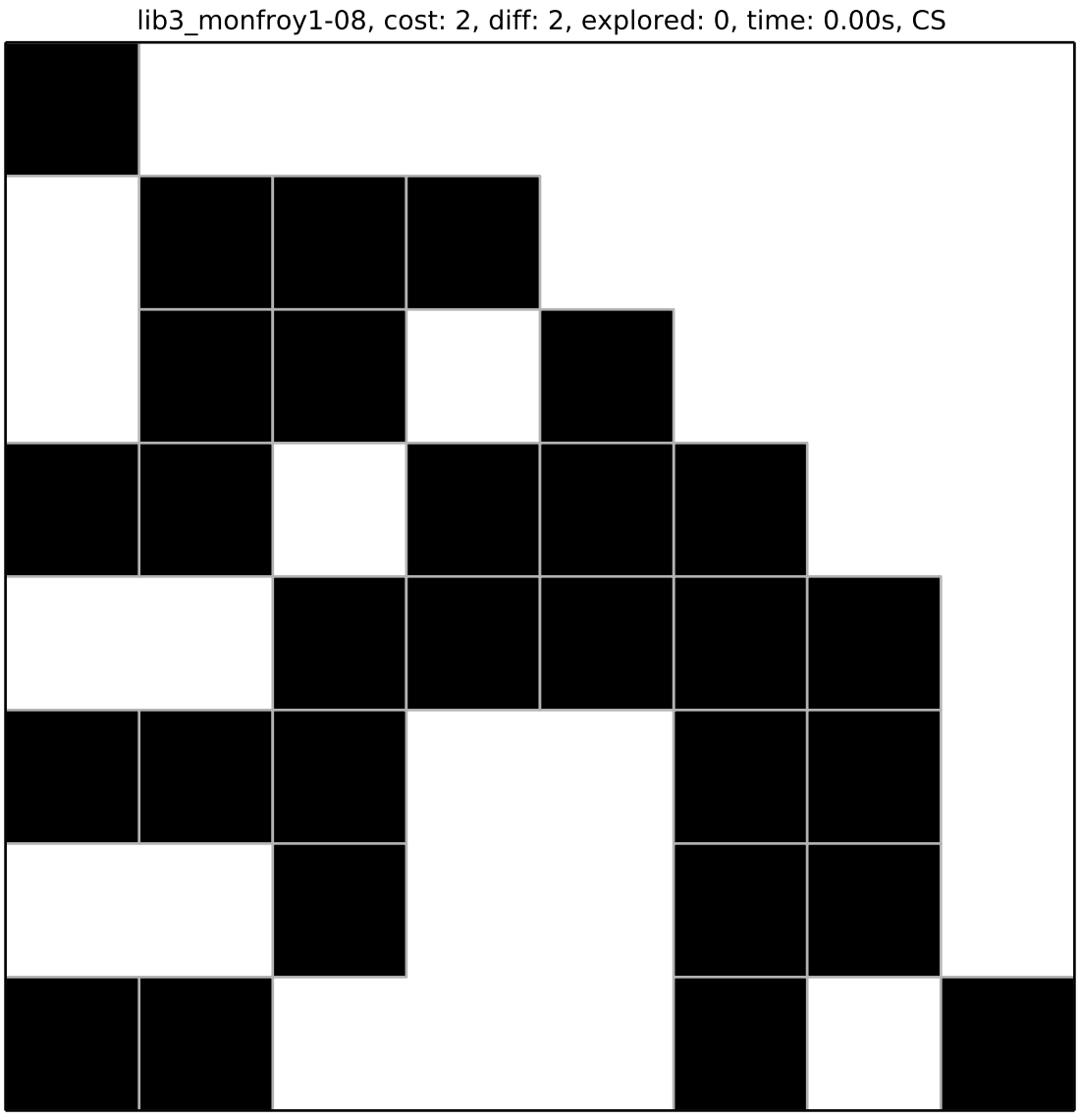
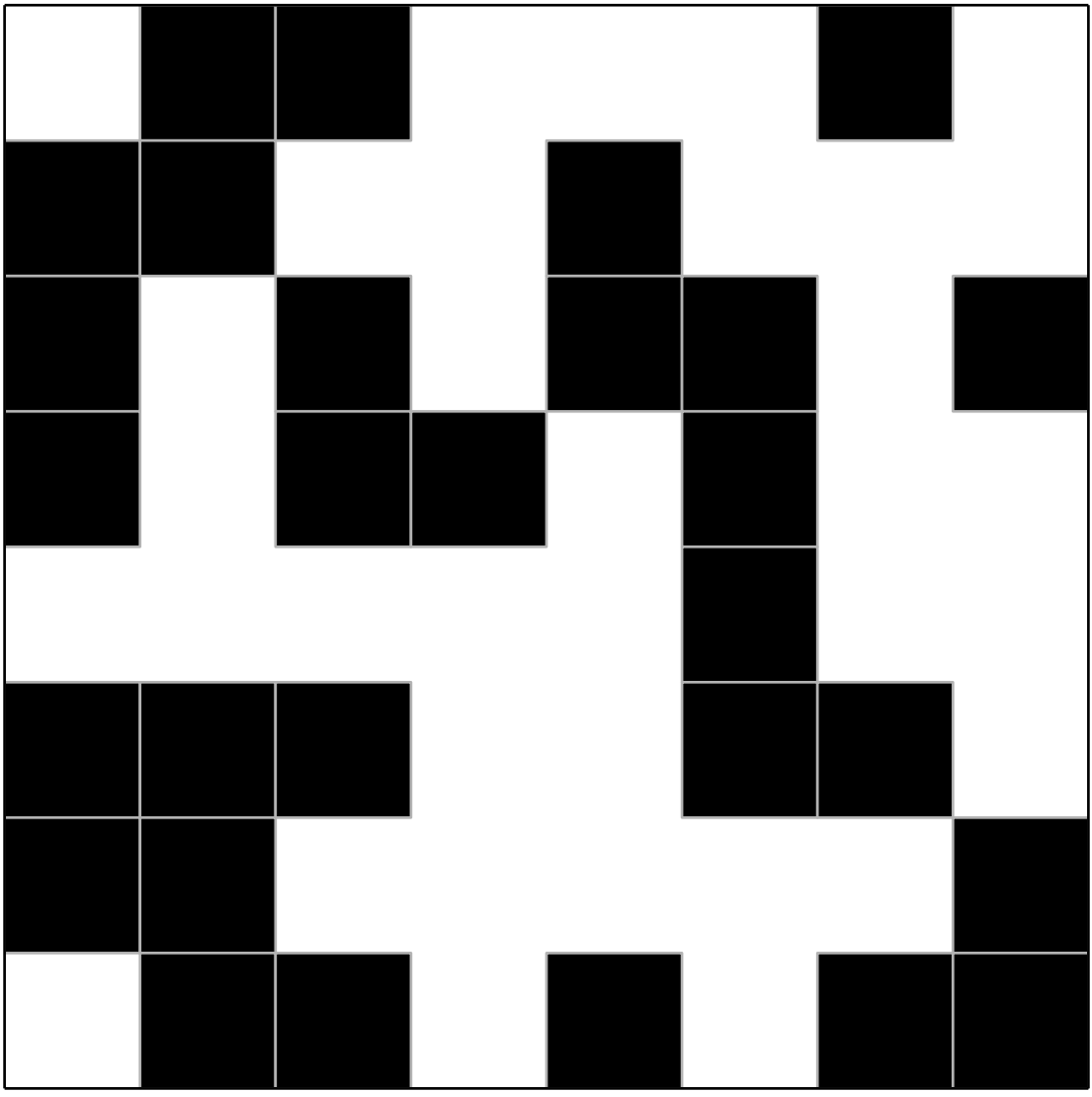


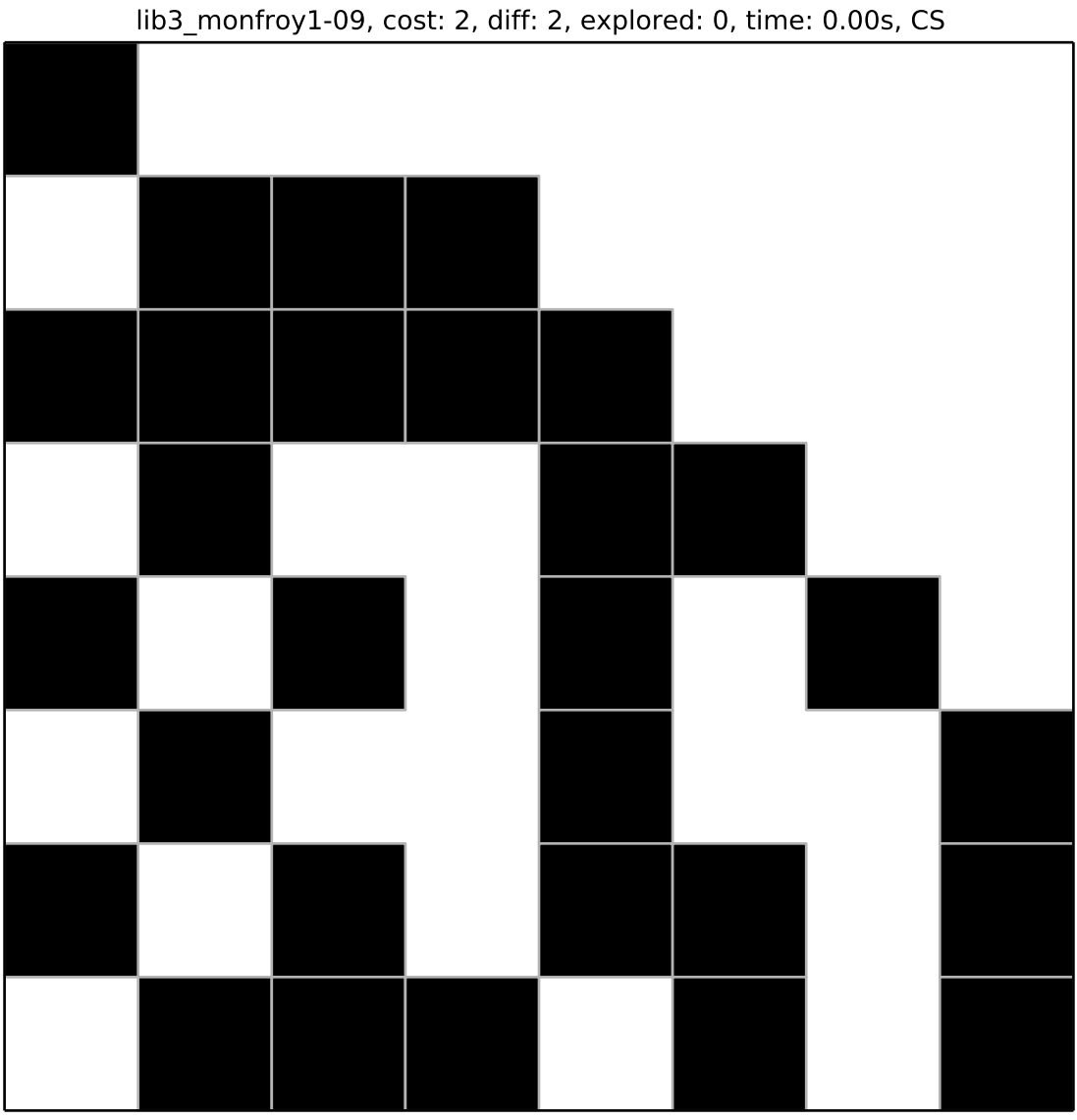
lib3_monfroy1-08 8x8 (29) con: 4, var: 4




lib3_monfroy1-08, cost: 2, diff: 2, explored: 0, time: 0.00s, CS

lib3_monfroy1-09 8x8 (29) con: 4, var: 4

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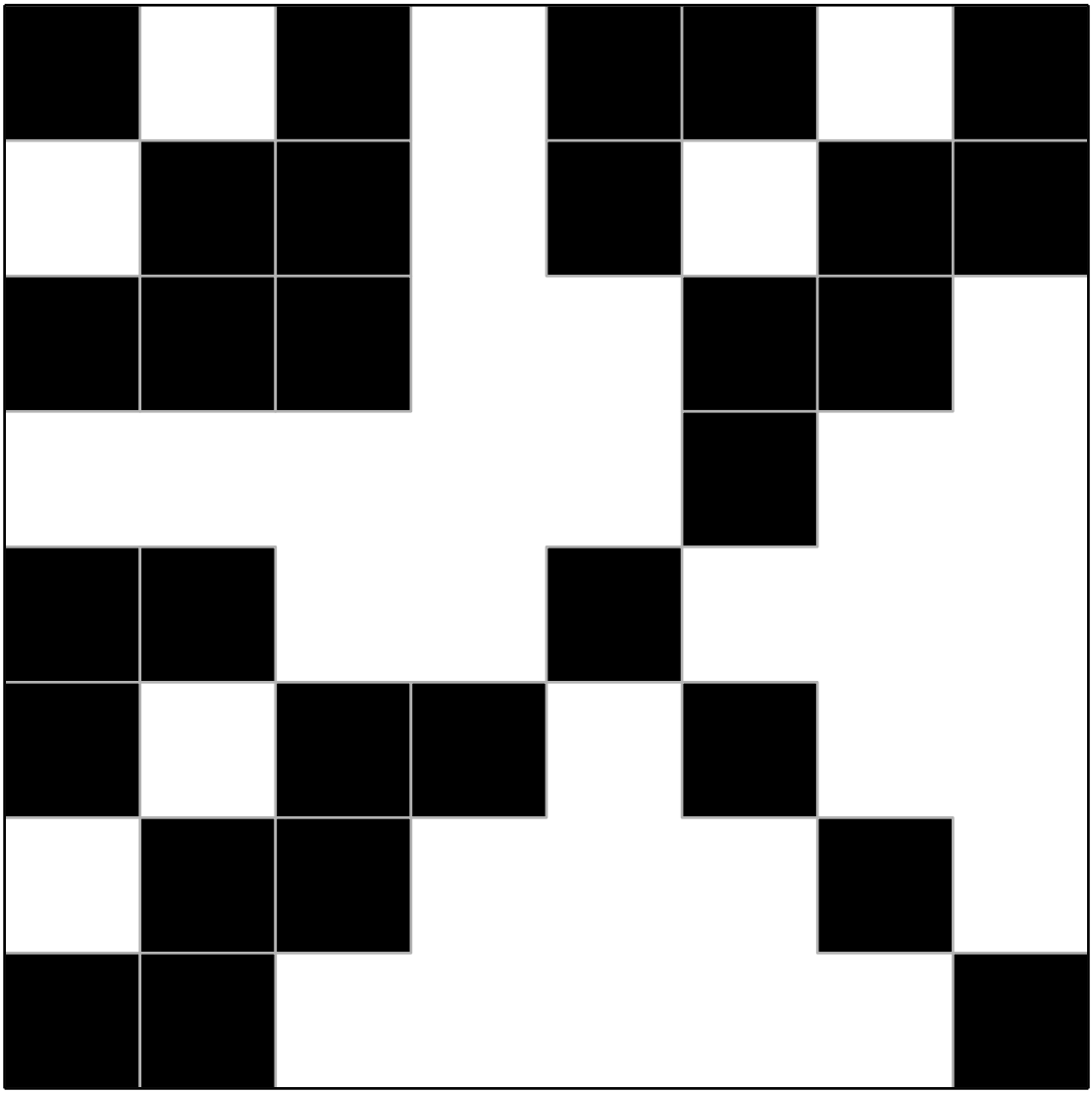
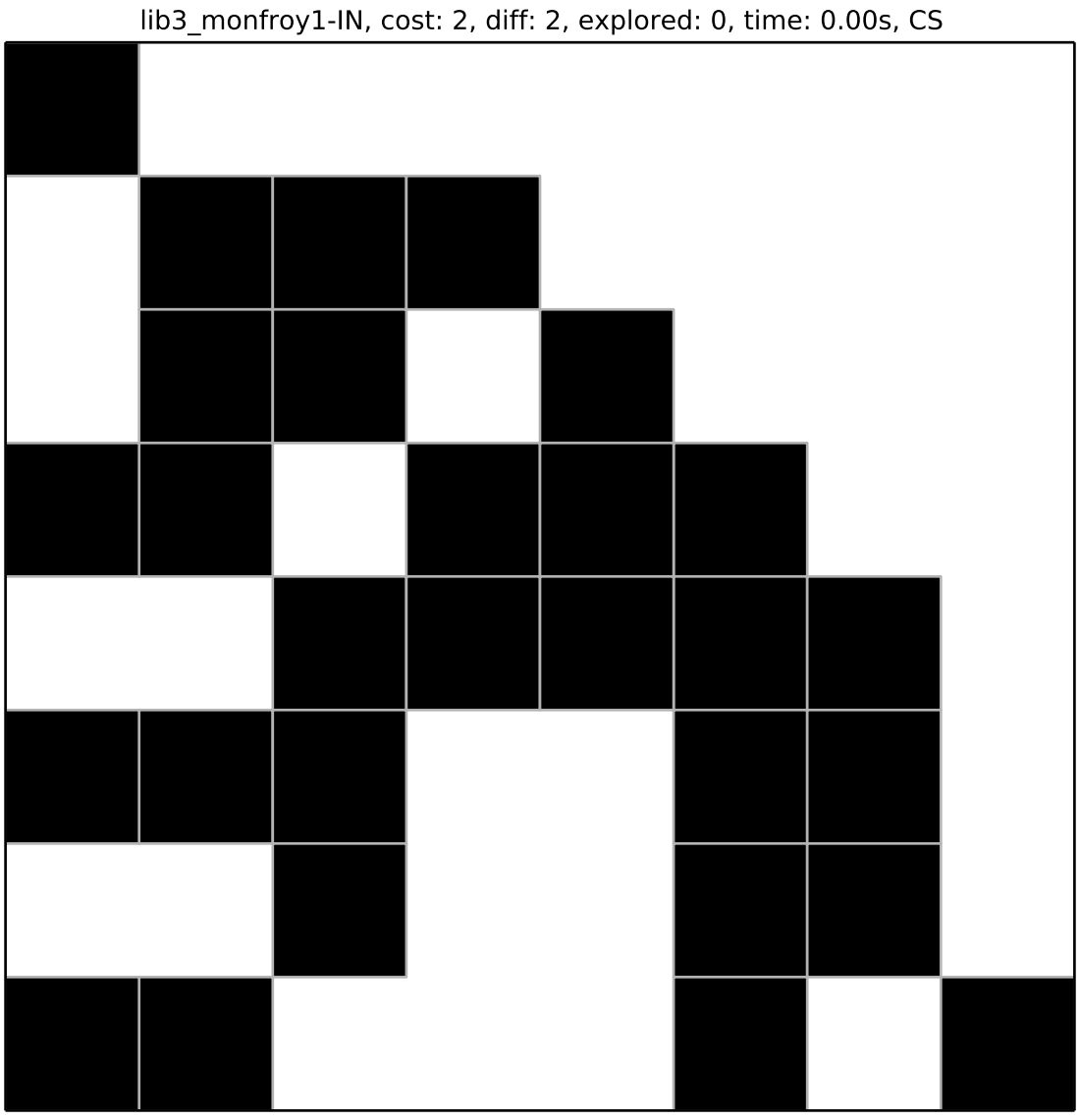
lib3_monfroy1-IN 8x8 (29) con: 4, var: 4

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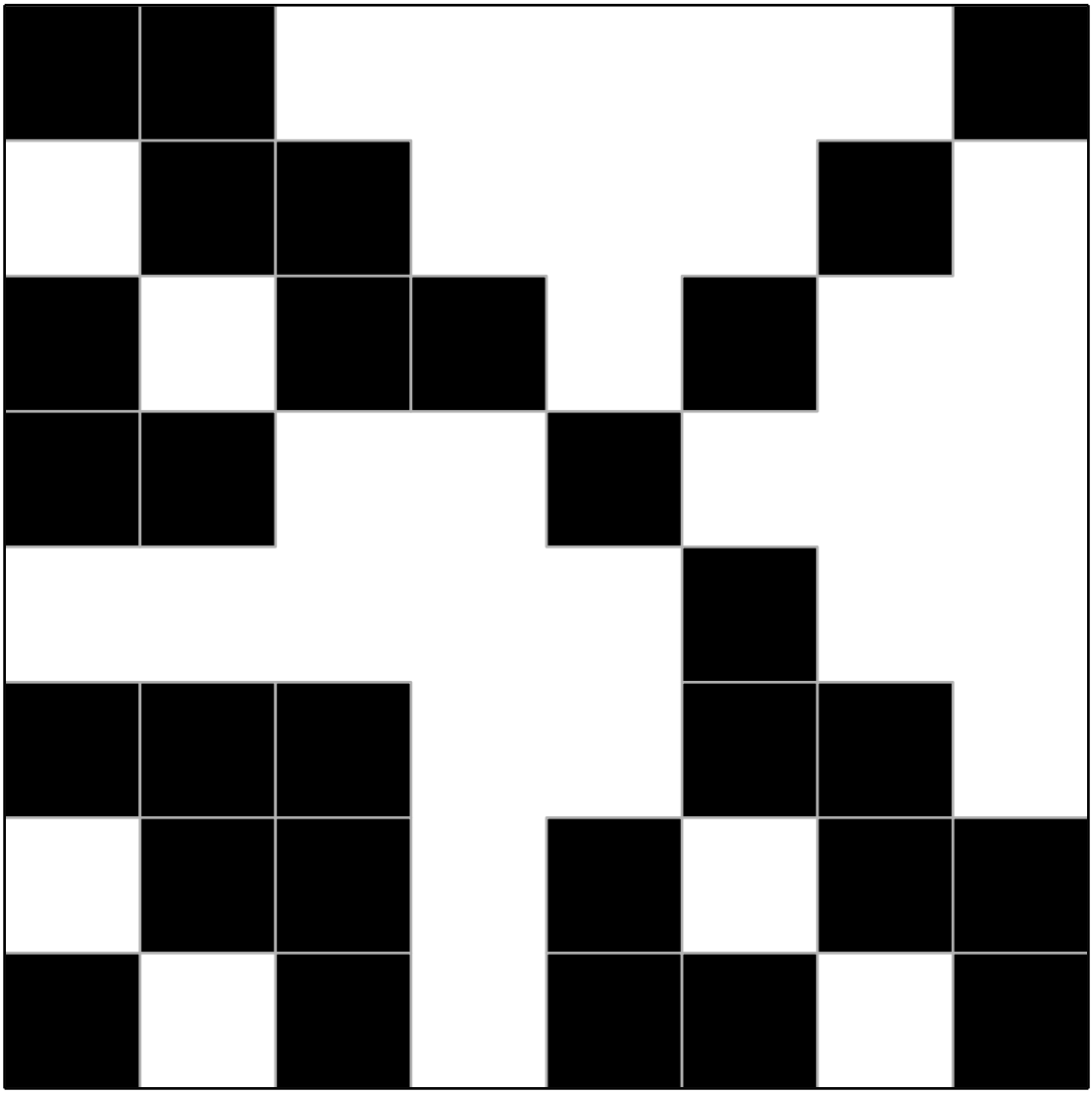
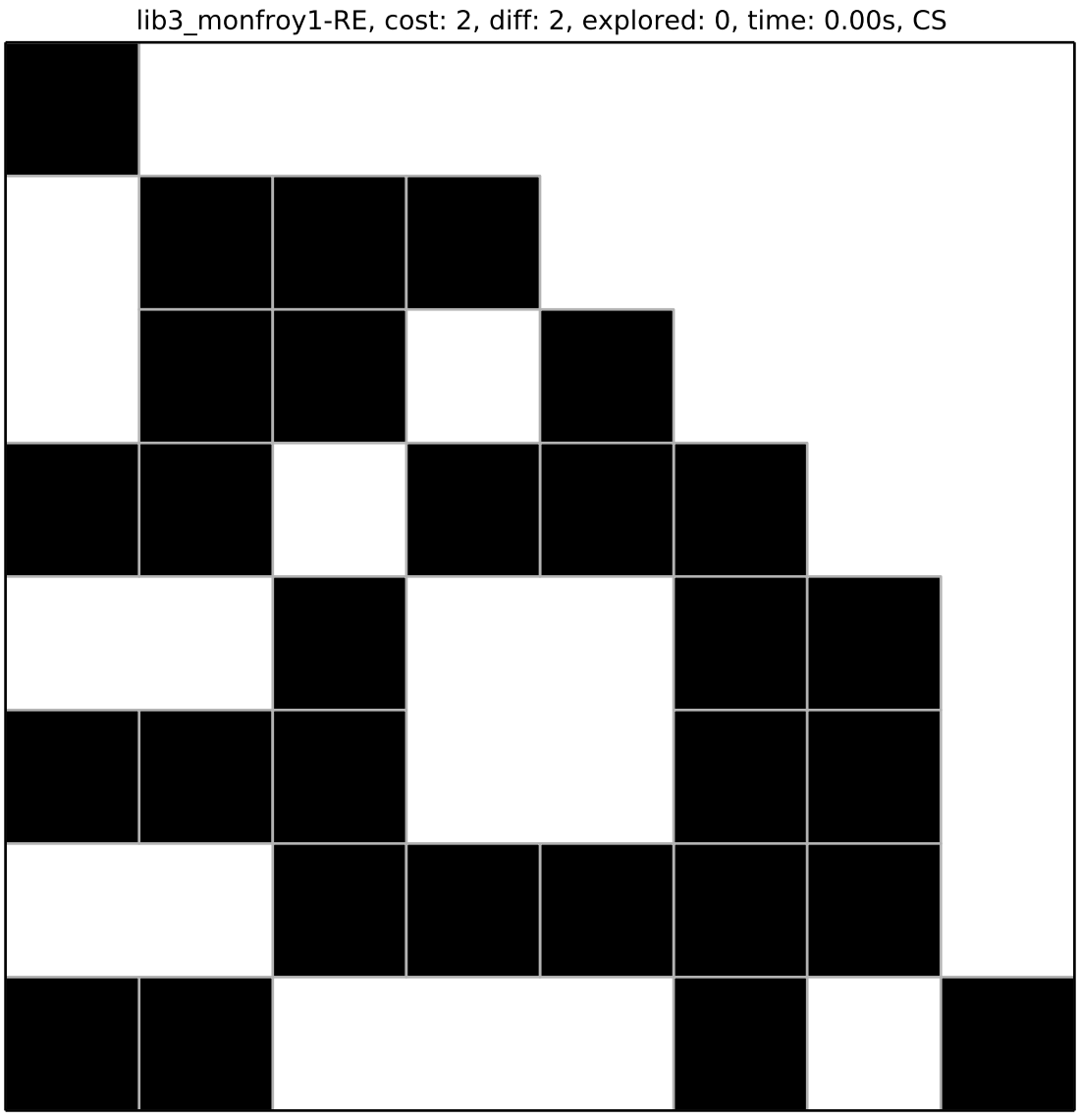
lib3_monfroy1-RE 8x8 (29) con: 4, var: 4

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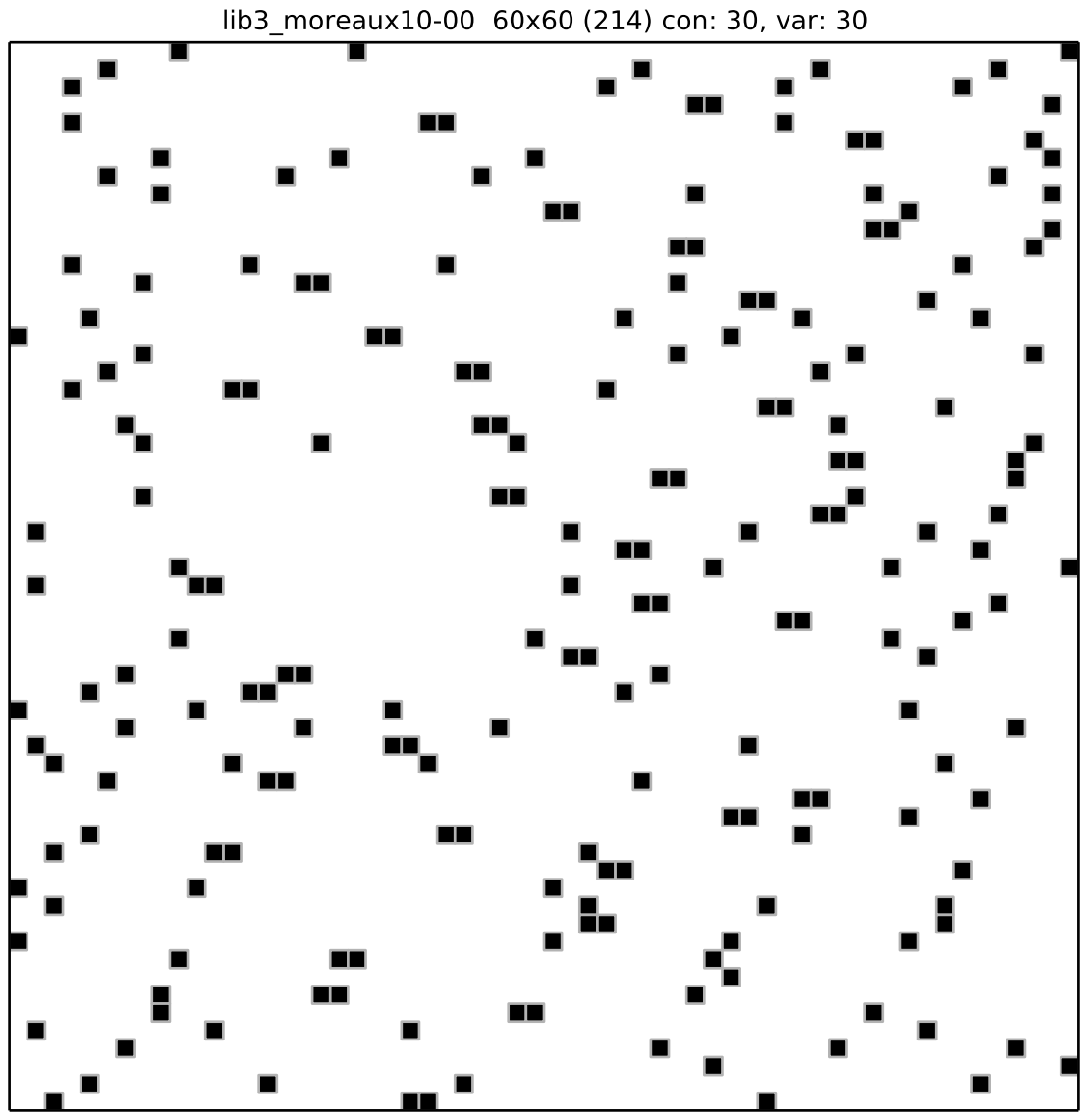
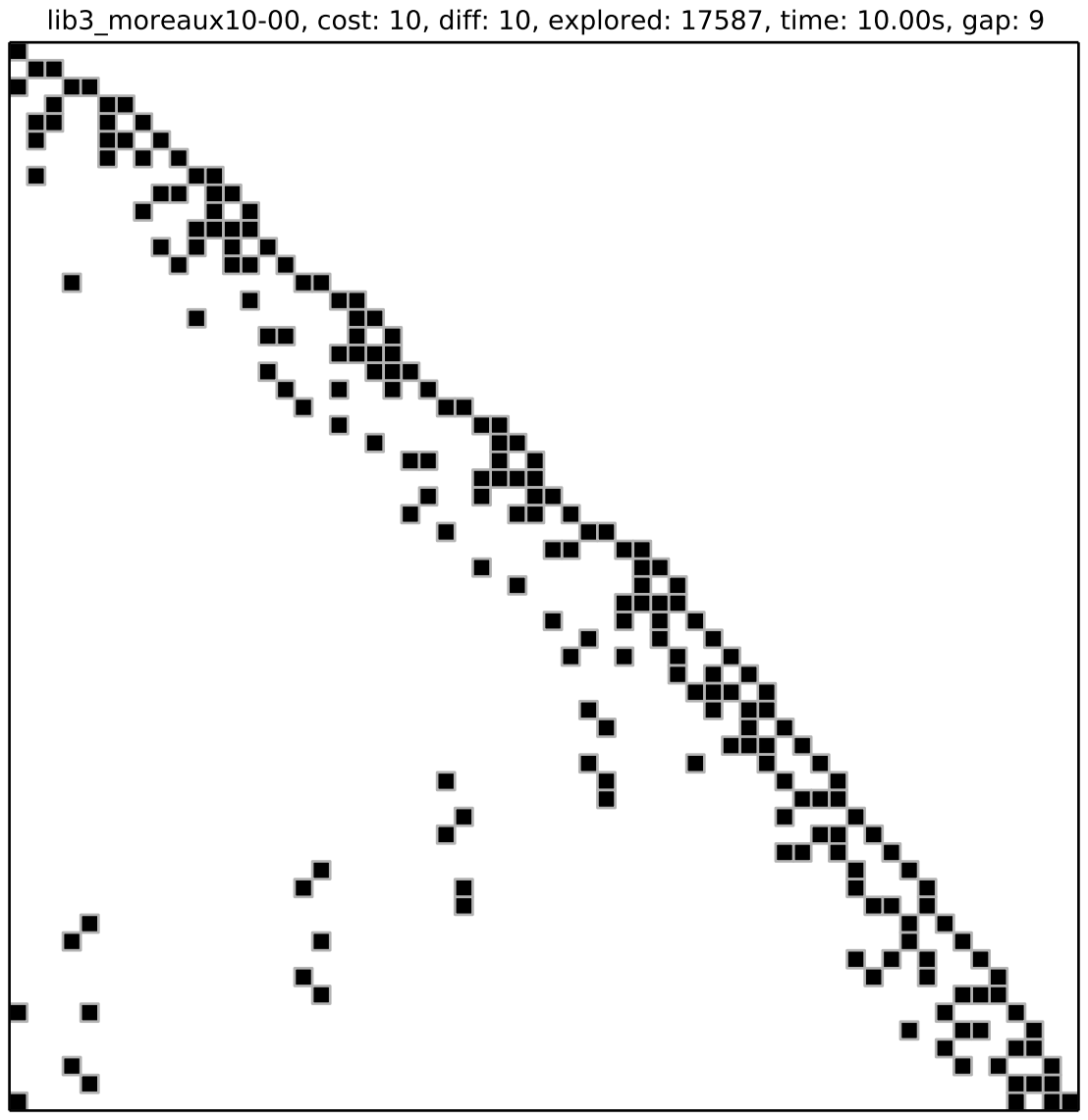
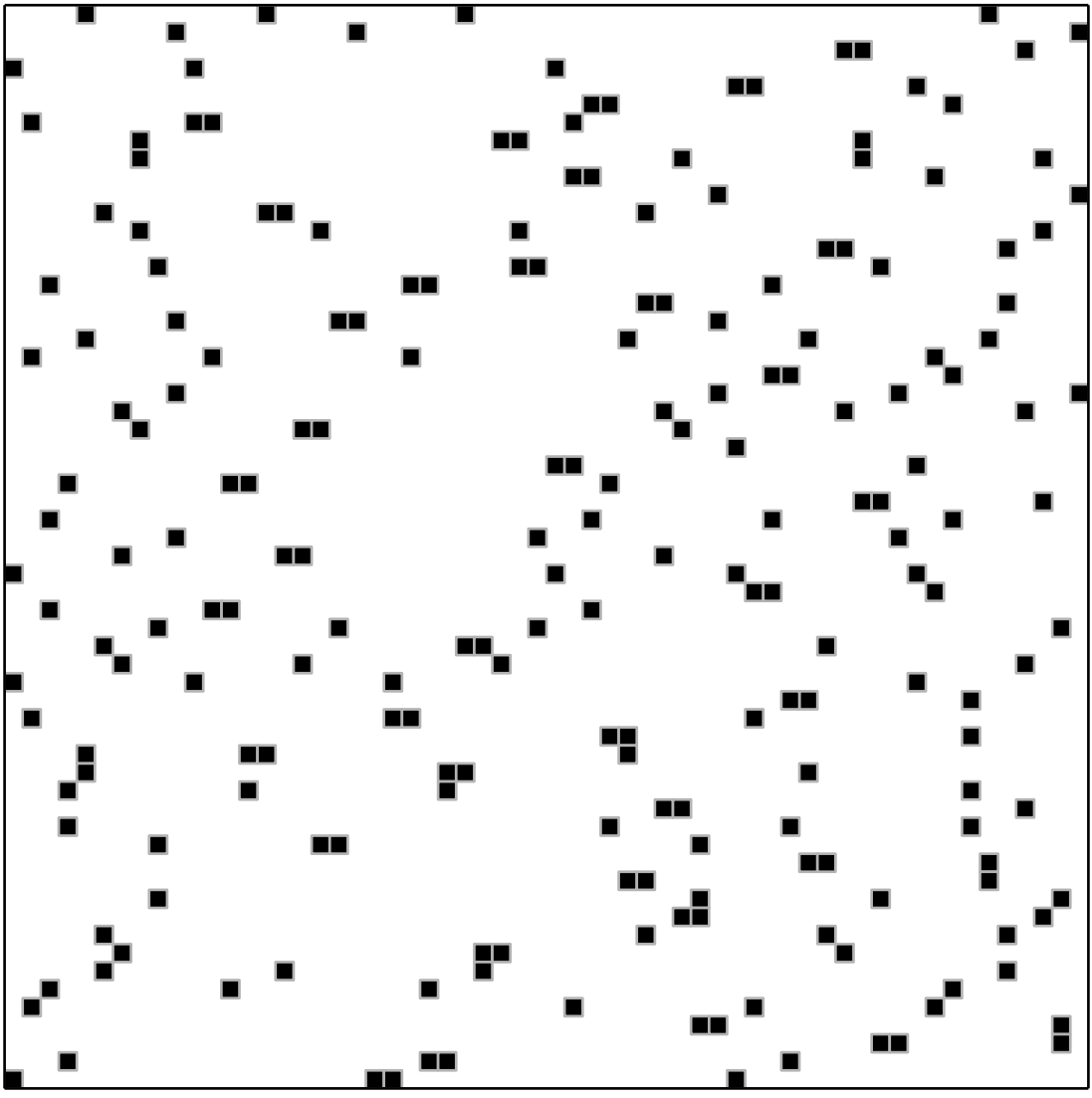
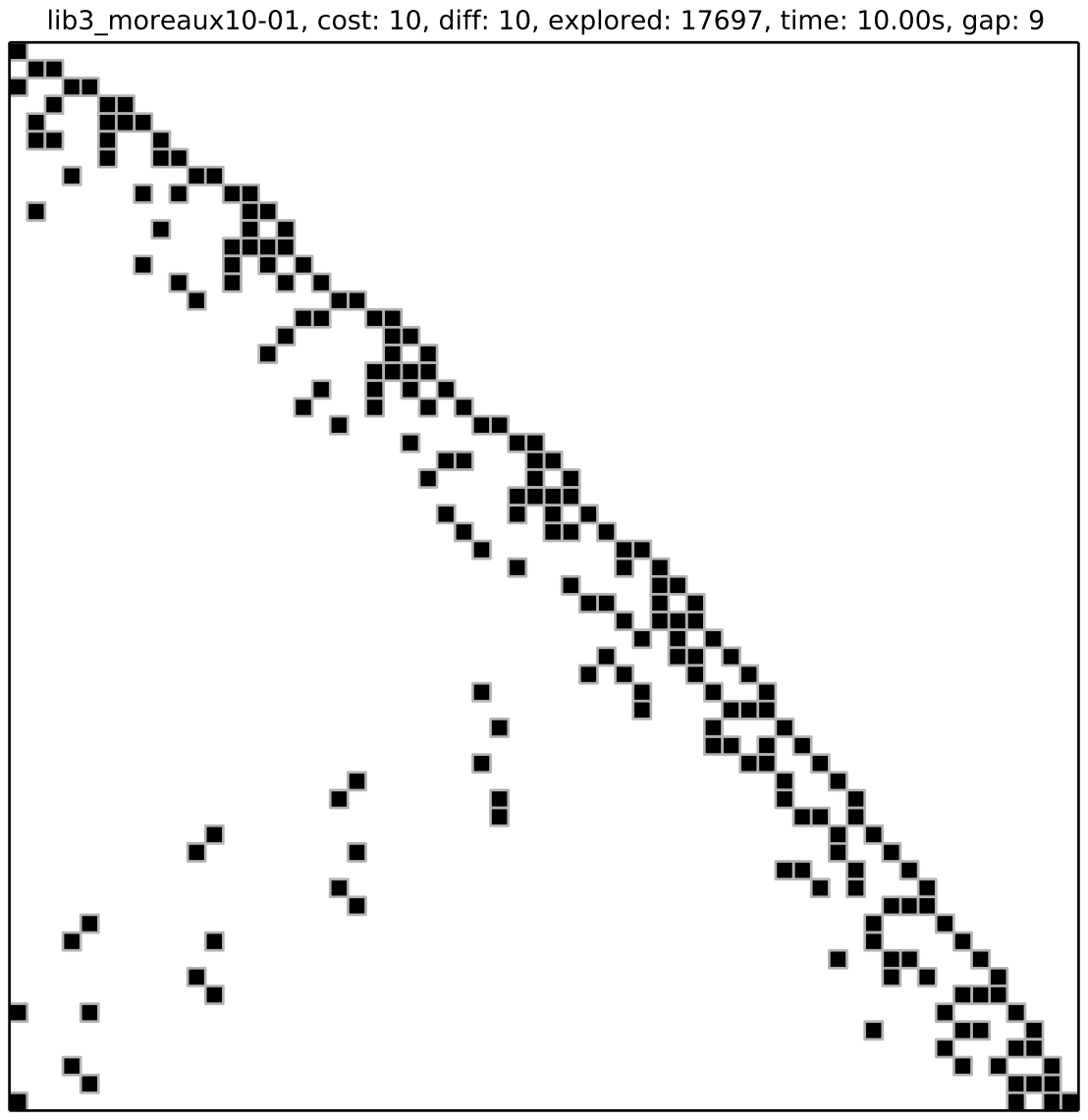

lib3_moreaux10-00 60x60 (214) con: 30, var: 30


lib3_moreaux10-00, cost: 10, diff: 10, explored: 17587, time: 10.00s, gap: 9

lib3_moreaux10-01 60x60 (214) con: 30, var: 30

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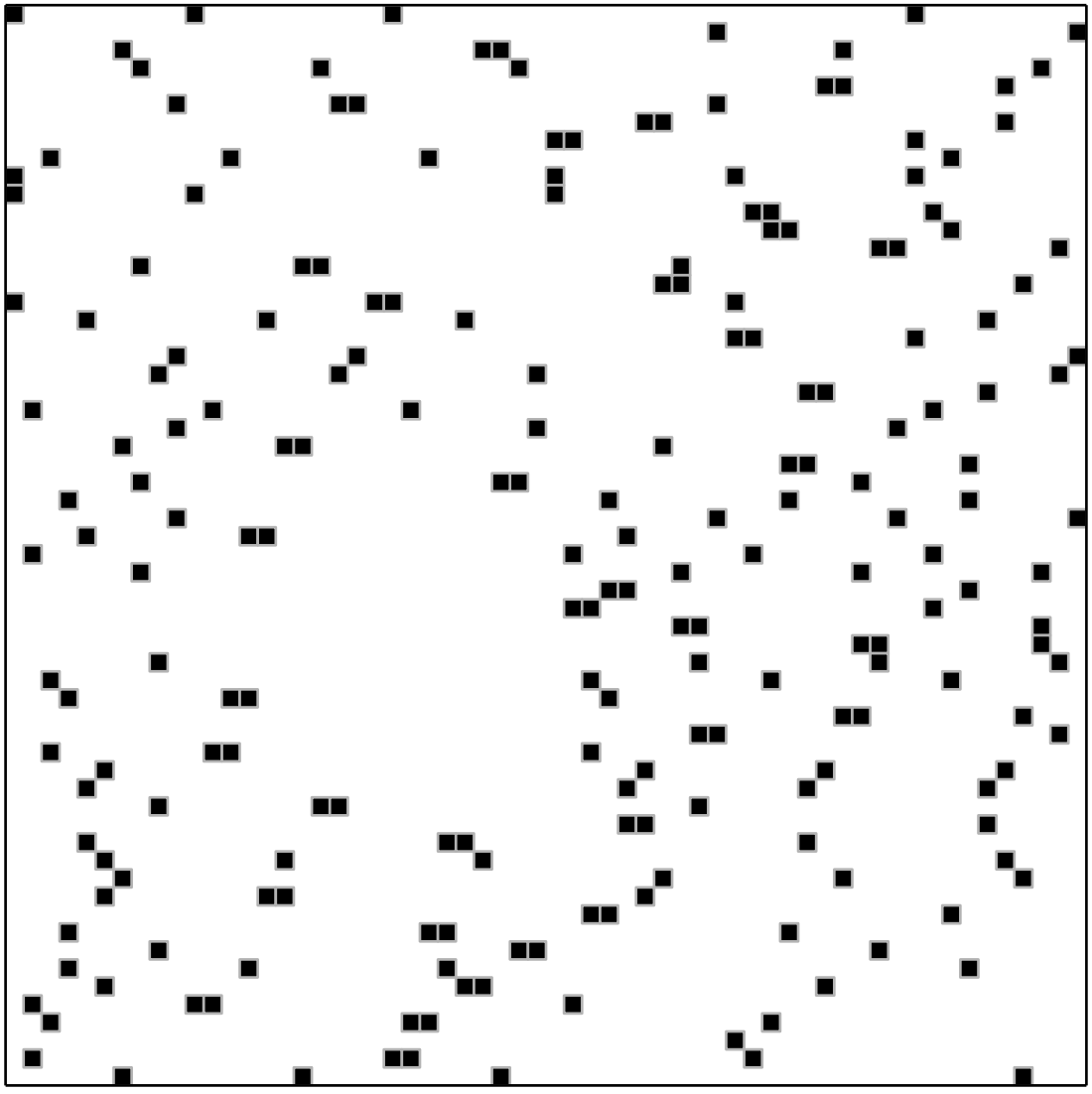
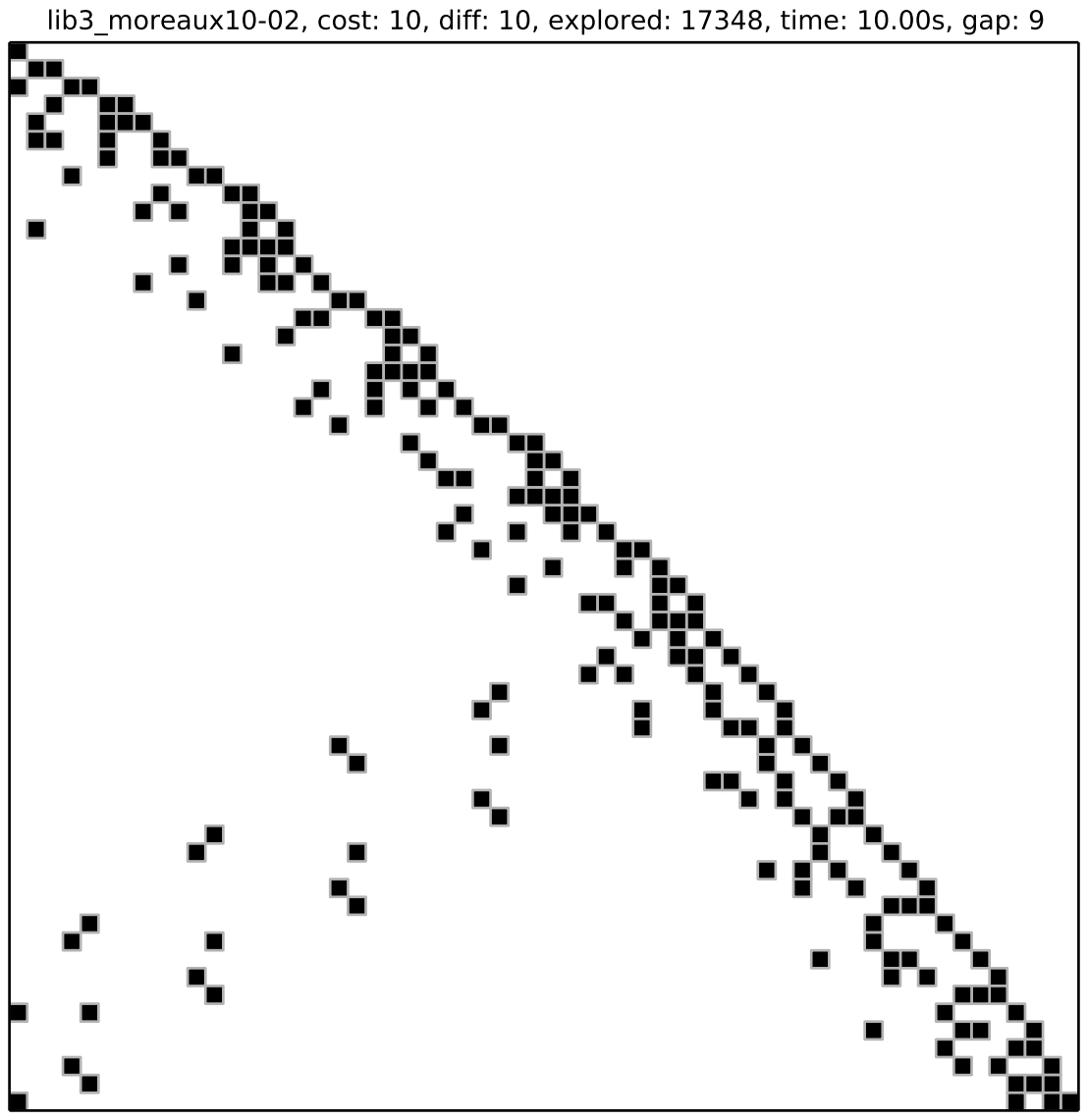
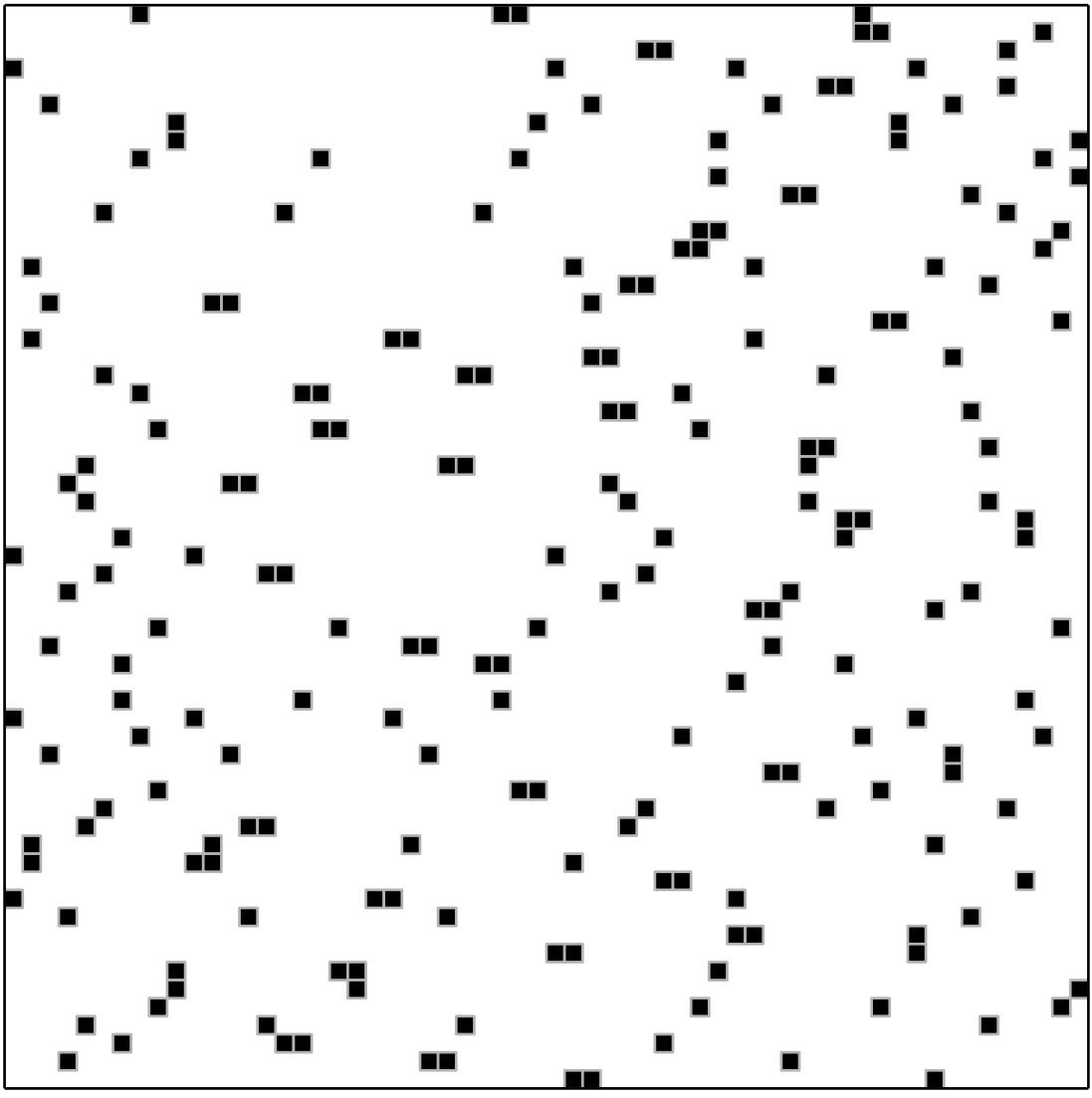
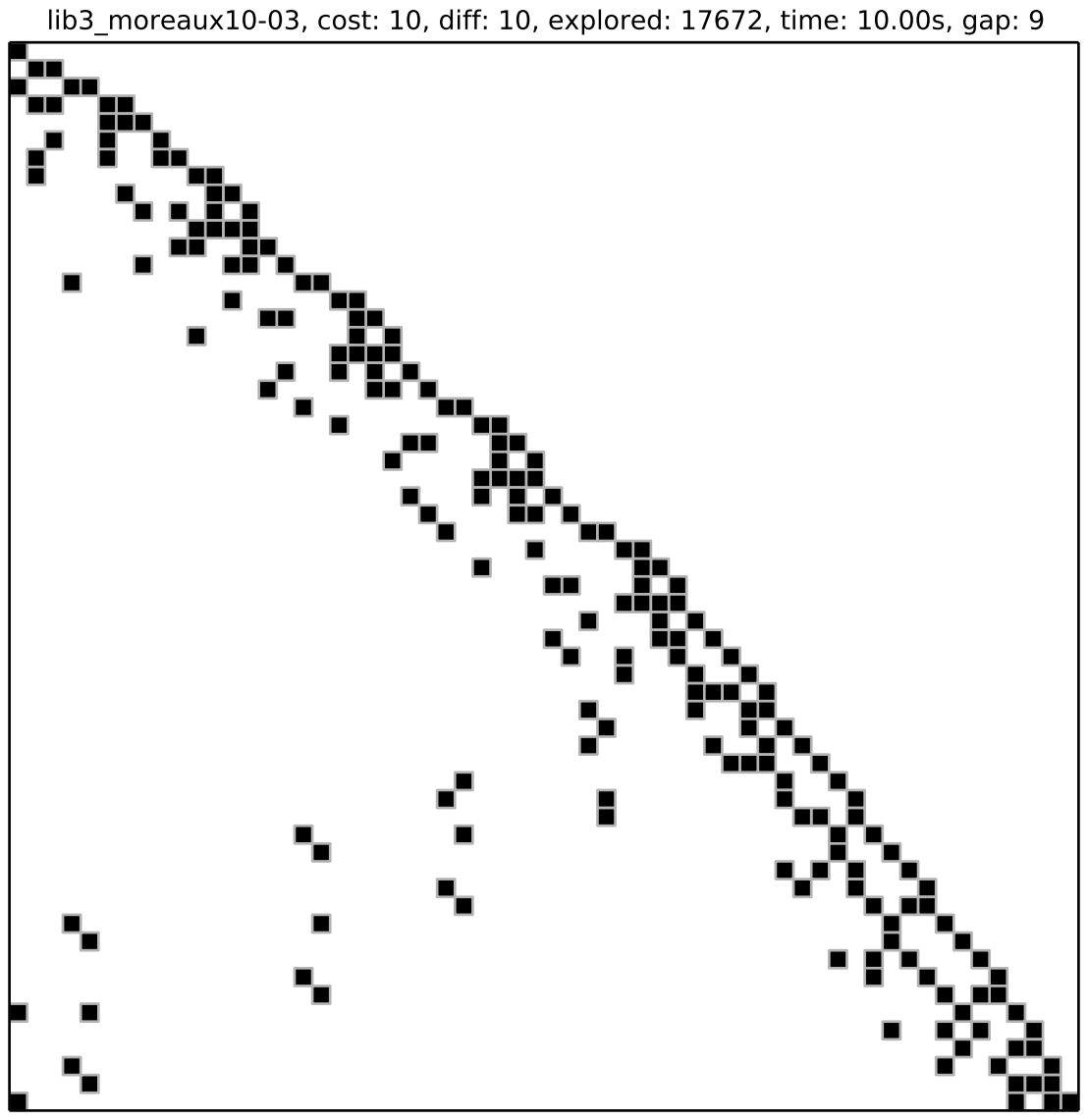
lib3_moreaux10-02 60x60 (214) con: 30, var: 30

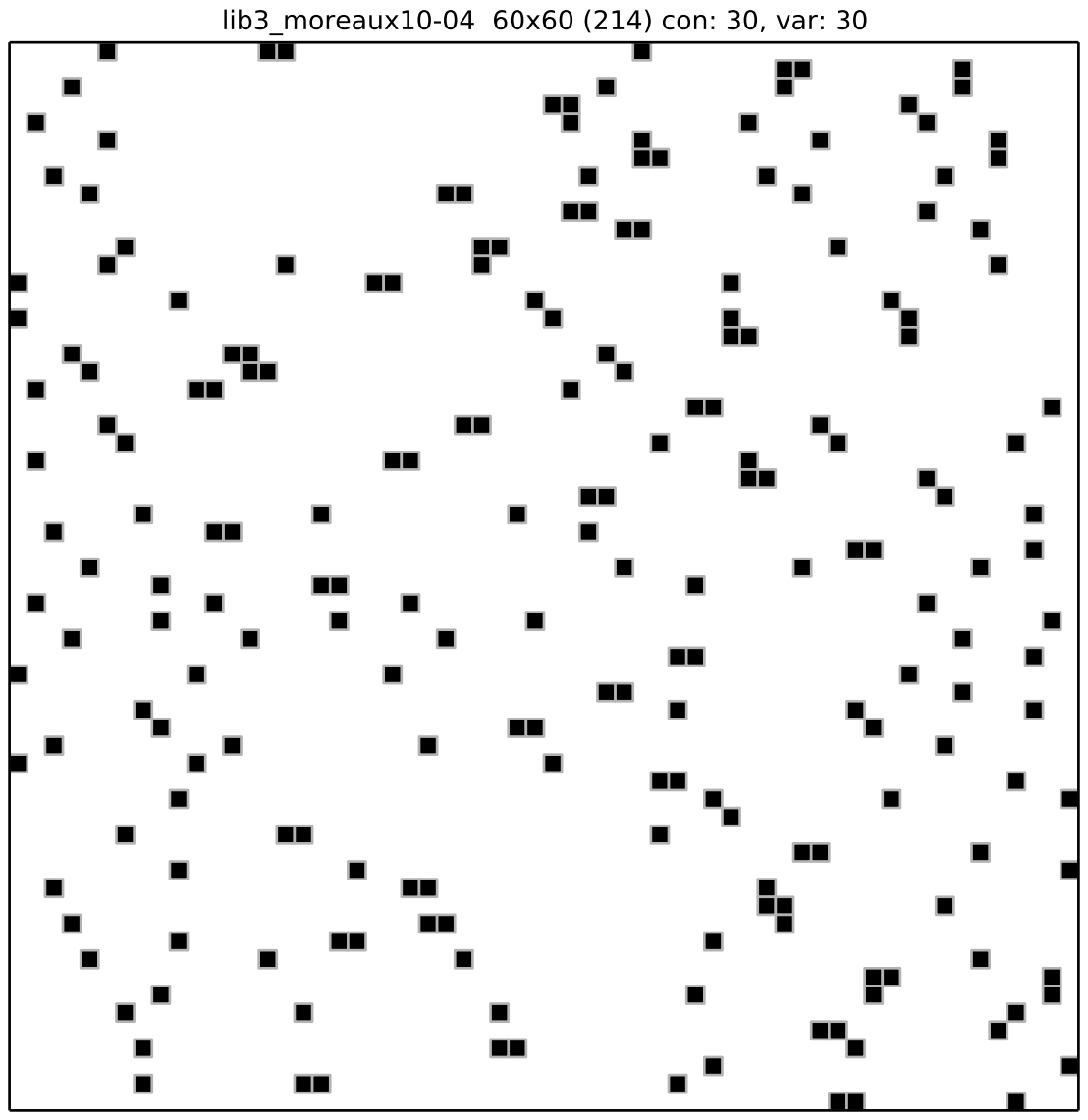


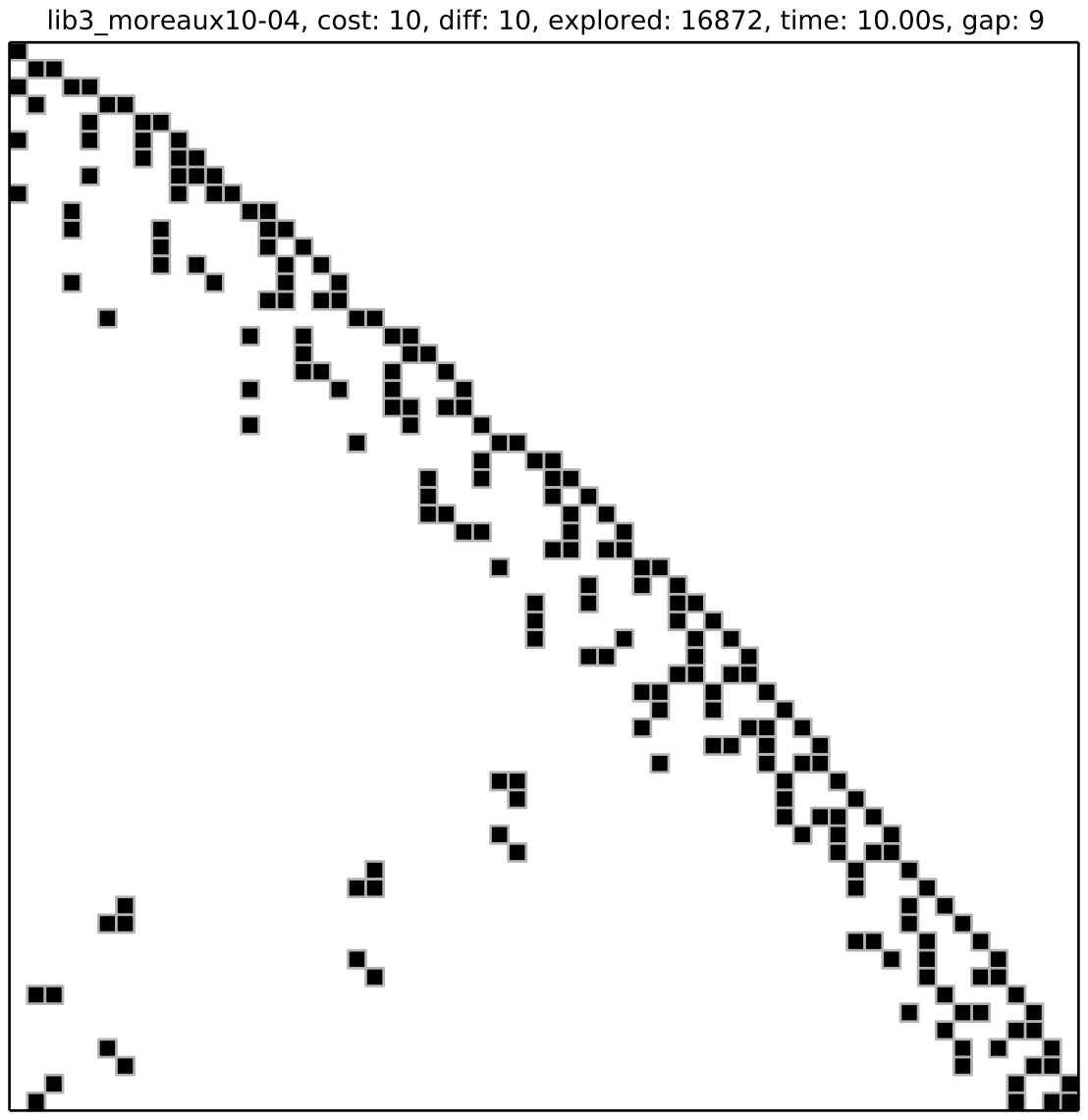

lib3_moreaux10-02, cost: 10, diff: 10, explored: 17348, time: 10.00s, gap: 9

lib3_moreaux10-03 60x60 (214) con: 30, var: 30

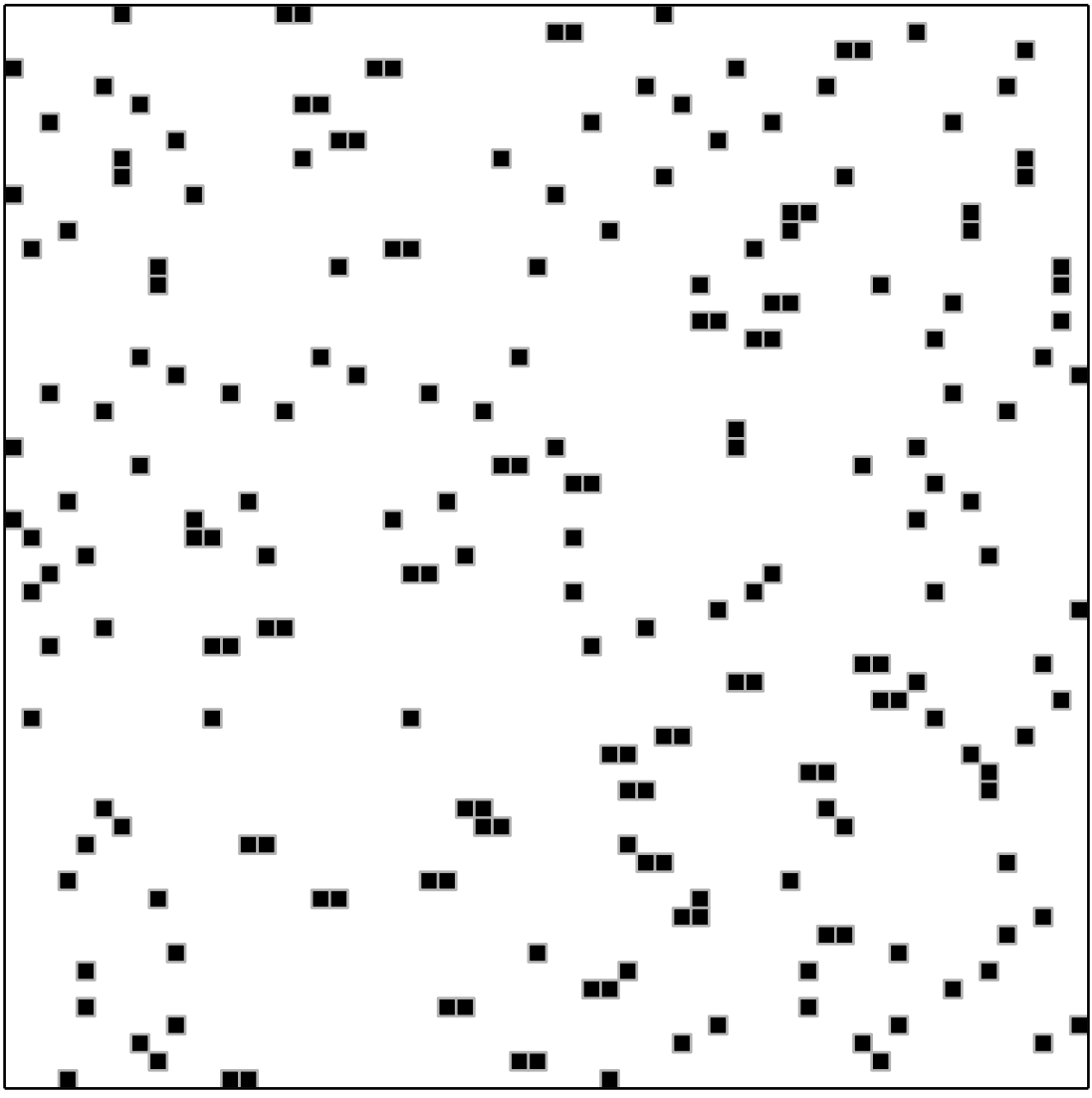


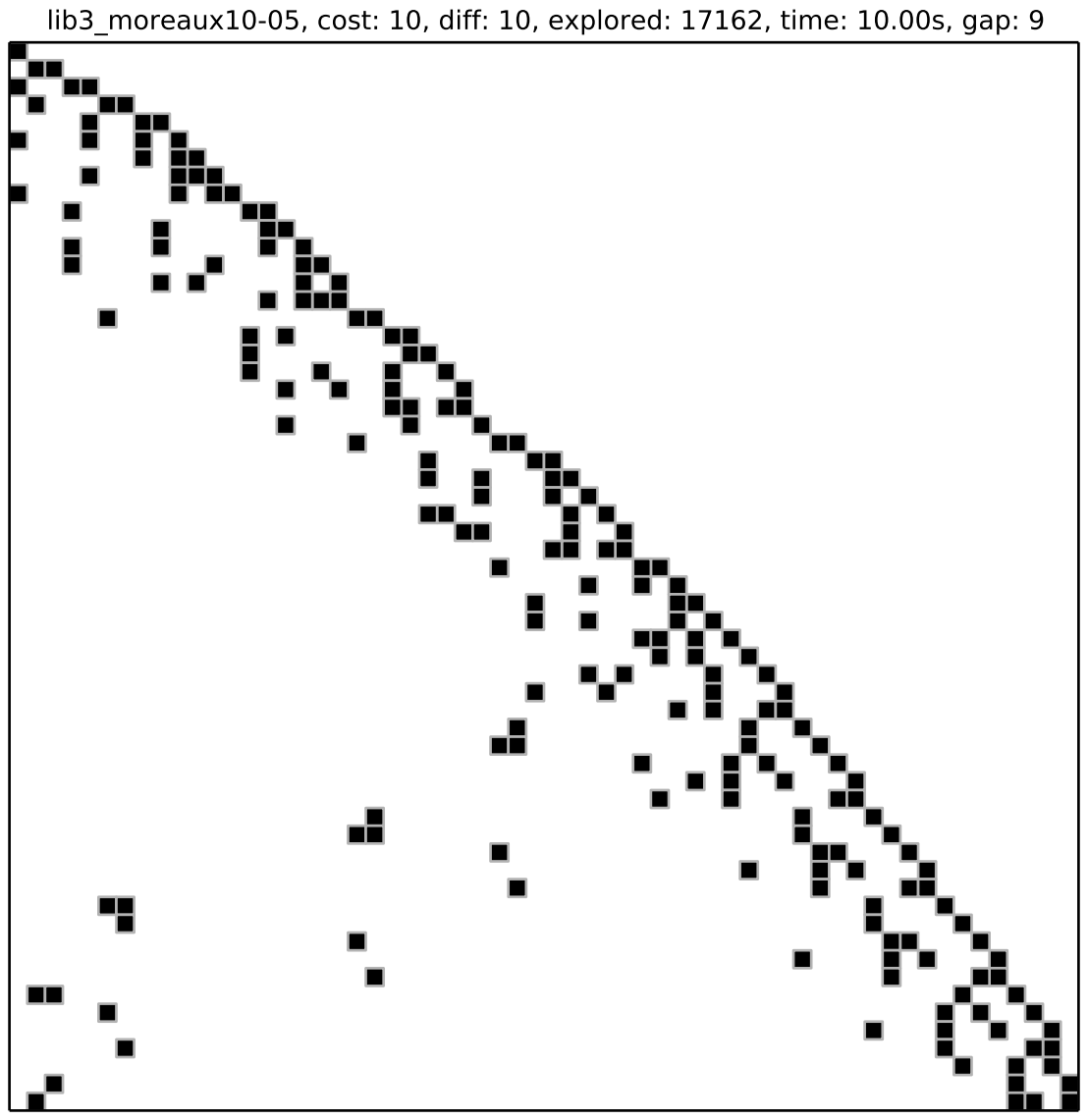

lib3_moreaux10-03, cost: 10, diff: 10, explored: 17672, time: 10.00s, gap: 9


lib3_moreaux10-04 60x60 (214) con: 30, var: 30

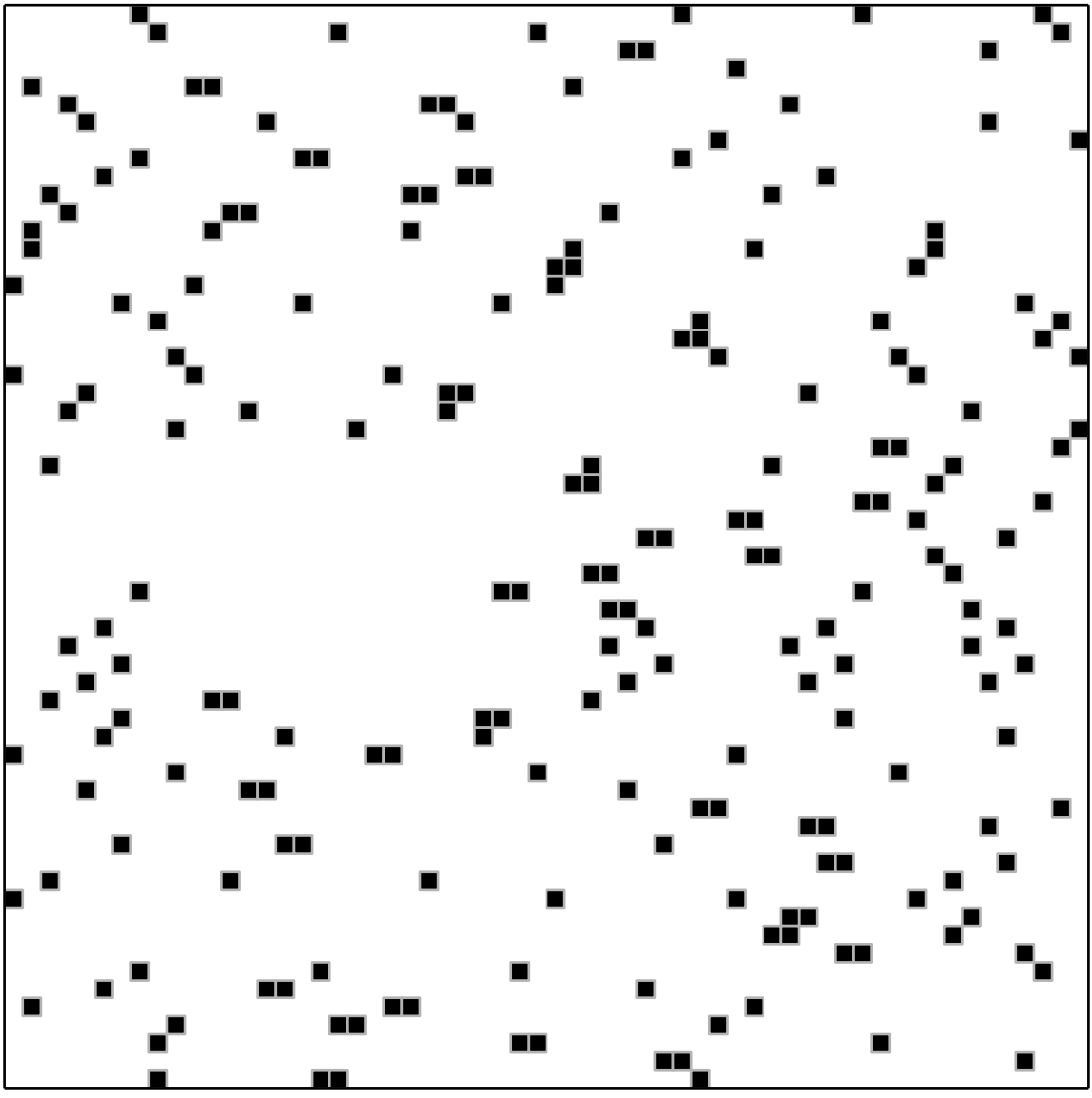

lib3_moreaux10-04, cost: 10, diff: 10, explored: 16872, time: 10.00s, gap: 9

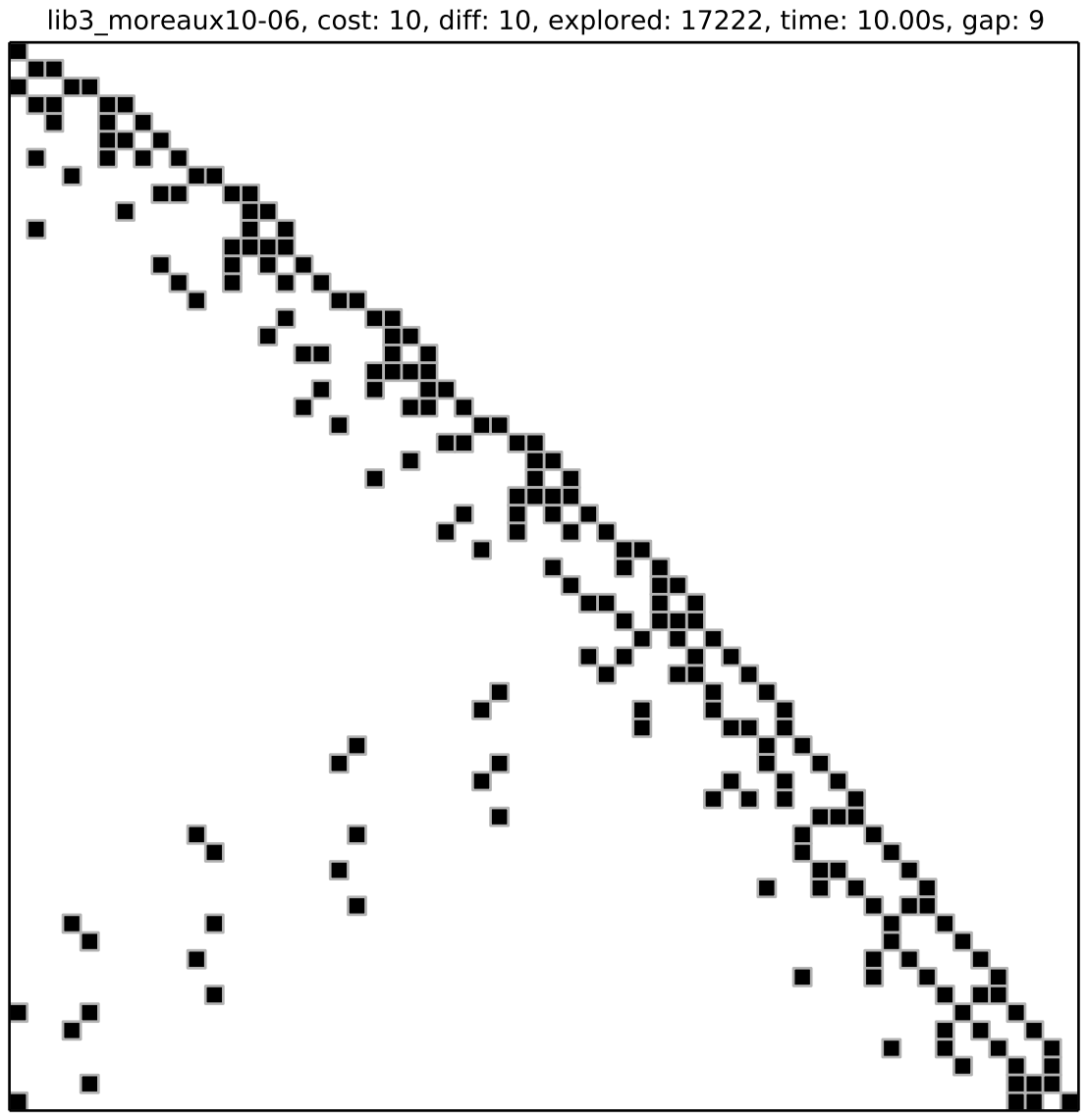
lib3_moreaux10-05 60x60 (214) con: 30, var: 30




lib3_moreaux10-05, cost: 10, diff: 10, explored: 17162, time: 10.00s, gap: 9

lib3_moreaux10-06 60x60 (214) con: 30, var: 30

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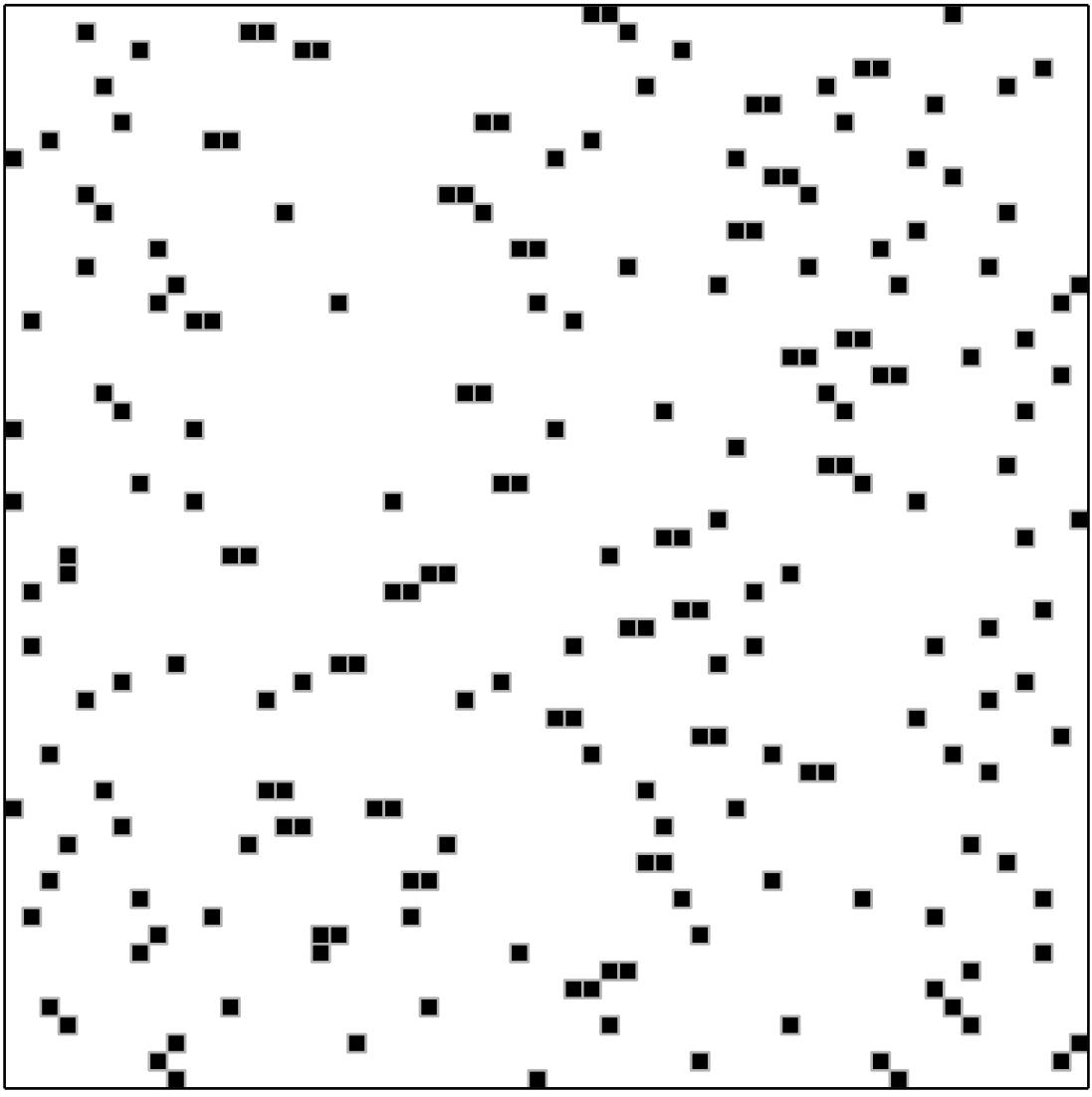
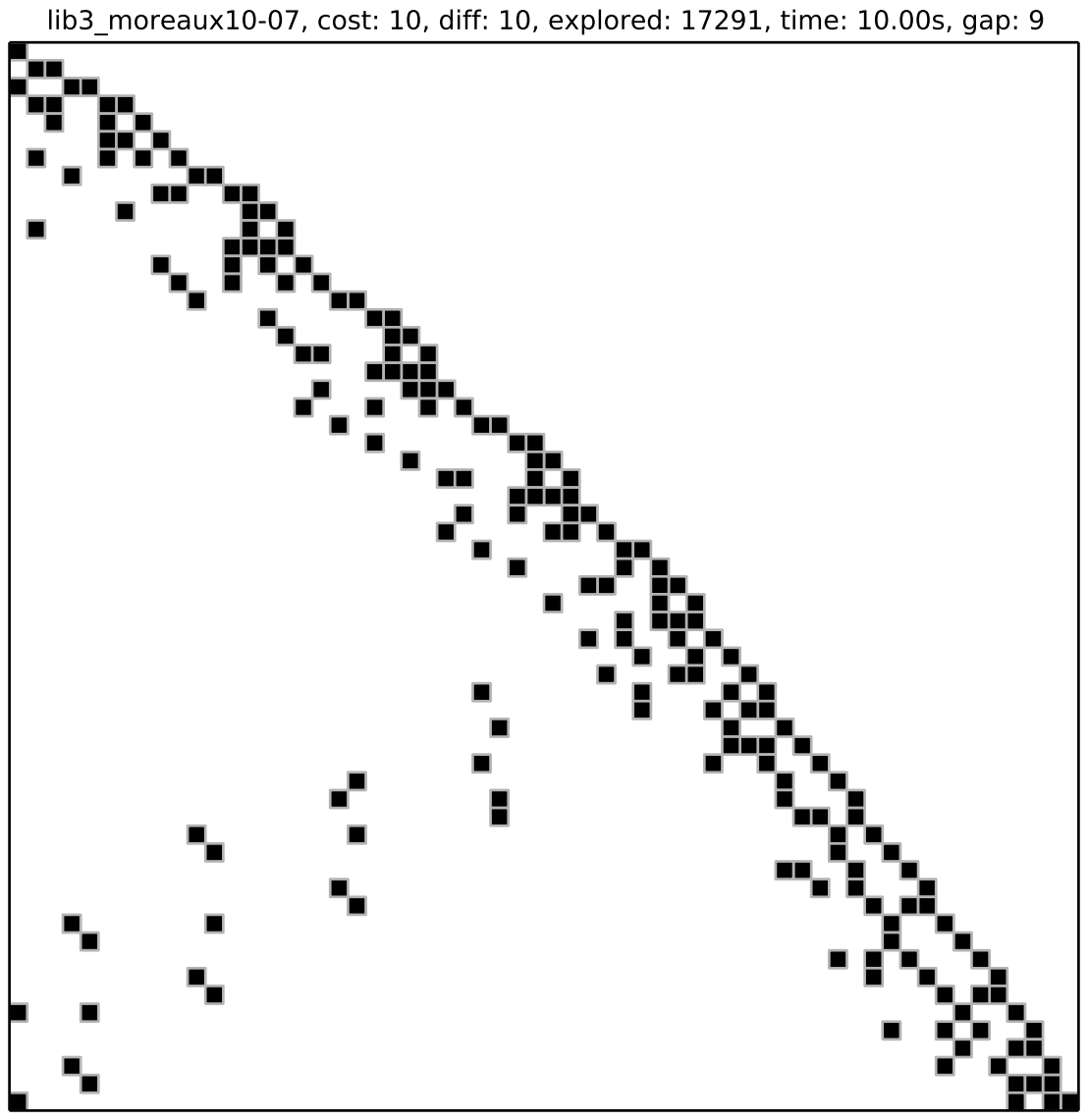
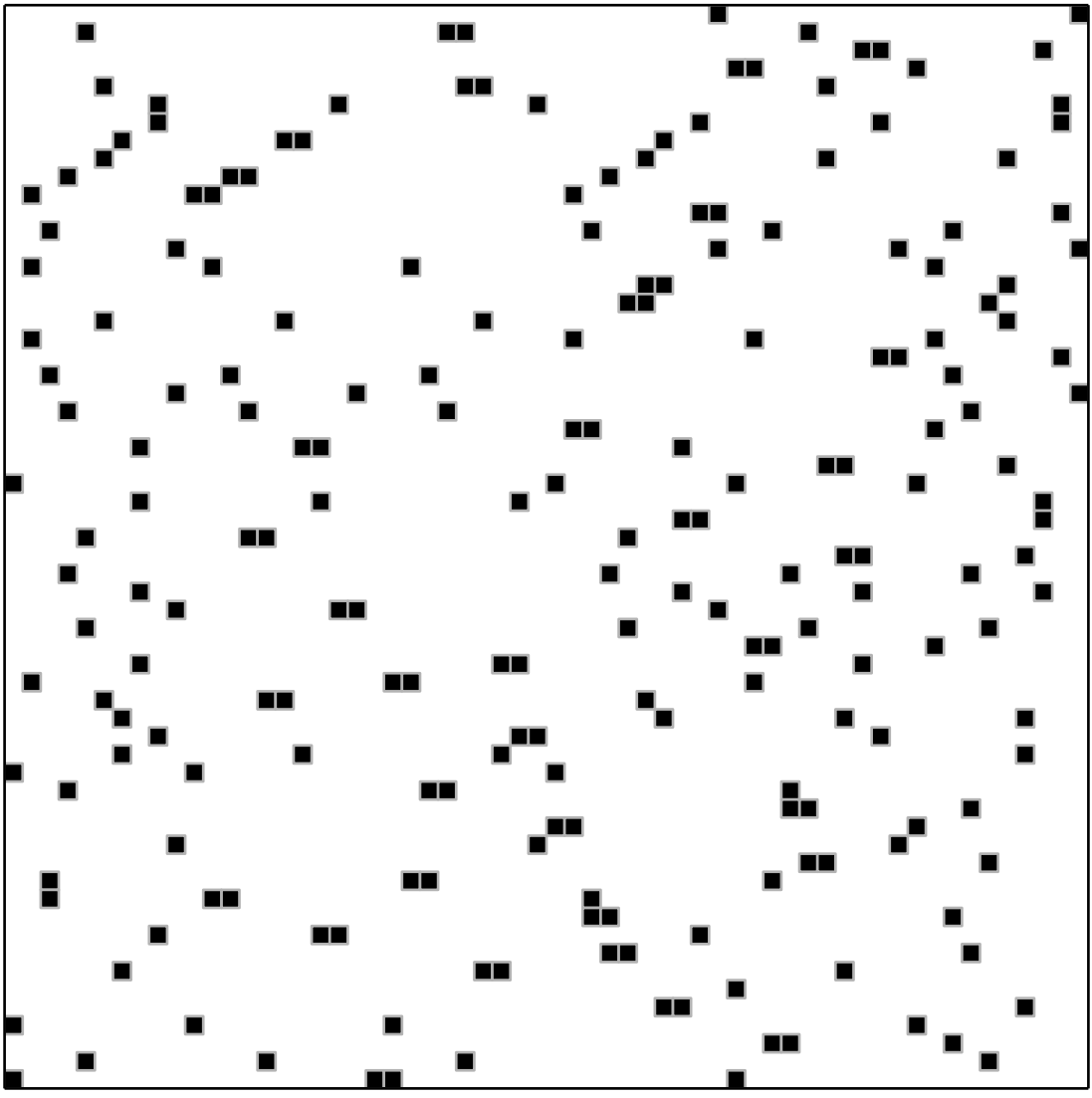
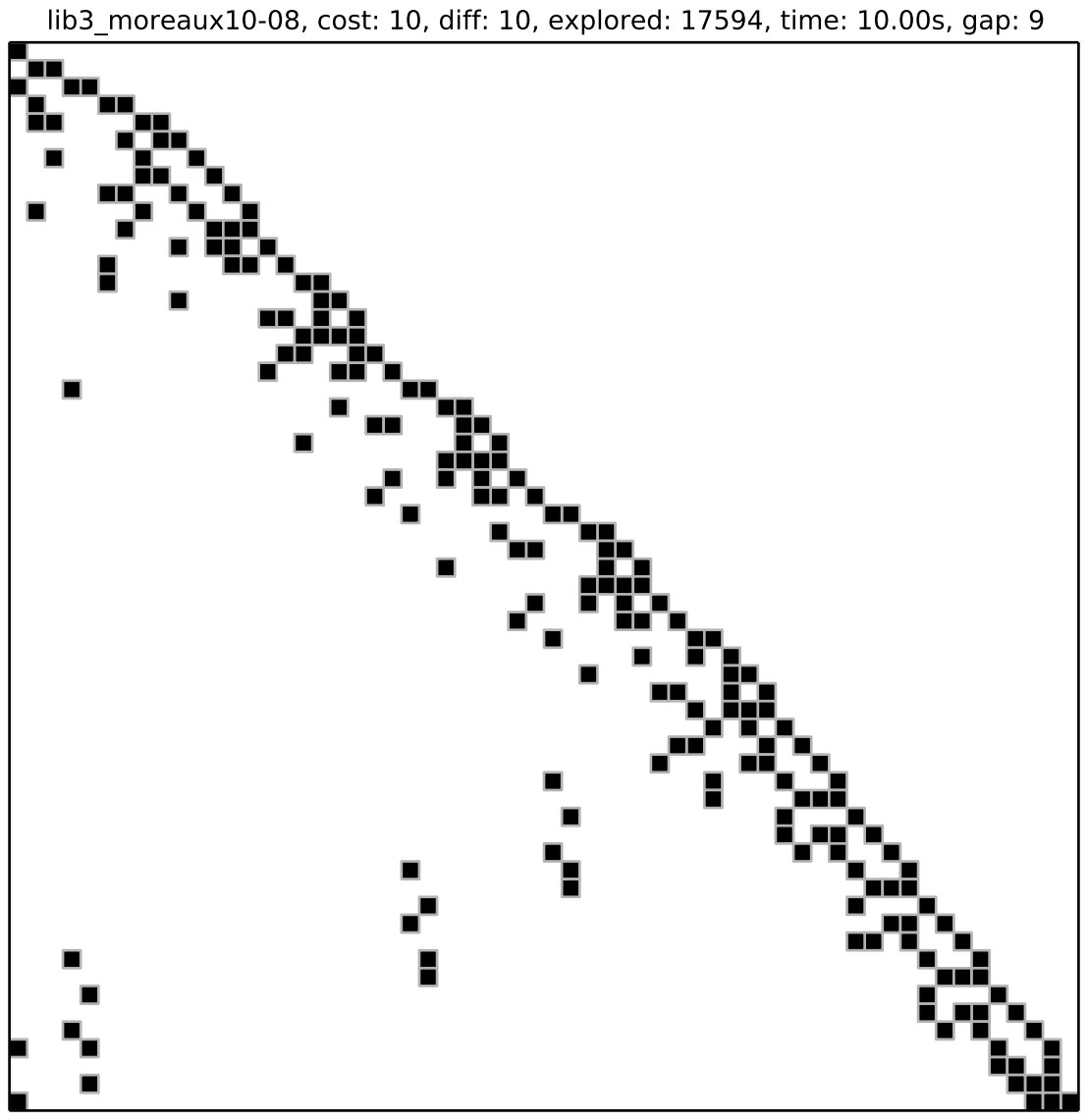
lib3_moreaux10-07 60x60 (214) con: 30, var: 30



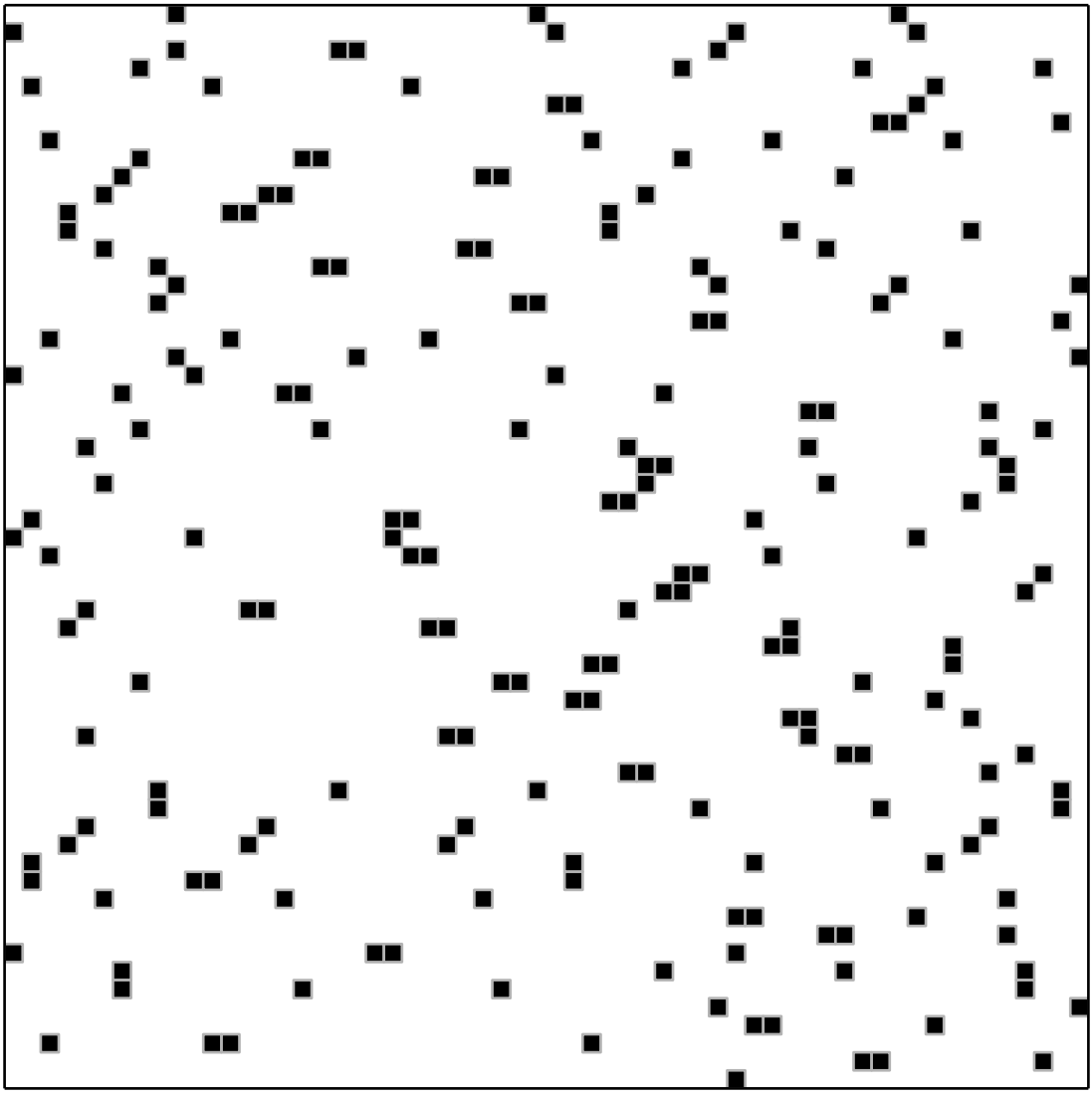

lib3_moreaux10-07, cost: 10, diff: 10, explored: 17291, time: 10.00s, gap: 9

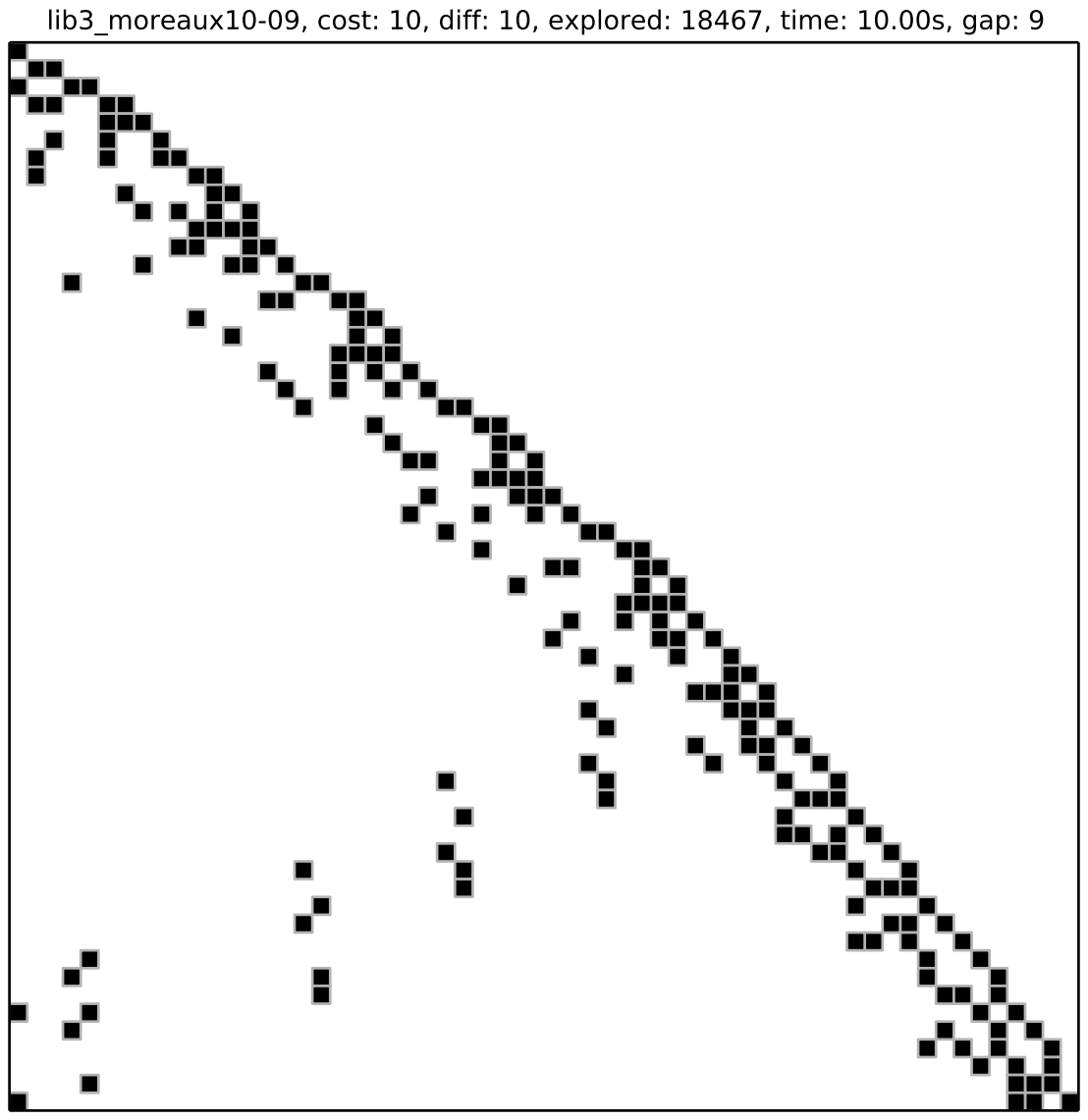
lib3_moreaux10-08 60x60 (214) con: 30, var: 30




lib3_moreaux10-08, cost: 10, diff: 10, explored: 17594, time: 10.00s, gap: 9

lib3_moreaux10-09 60x60 (214) con: 30, var: 30

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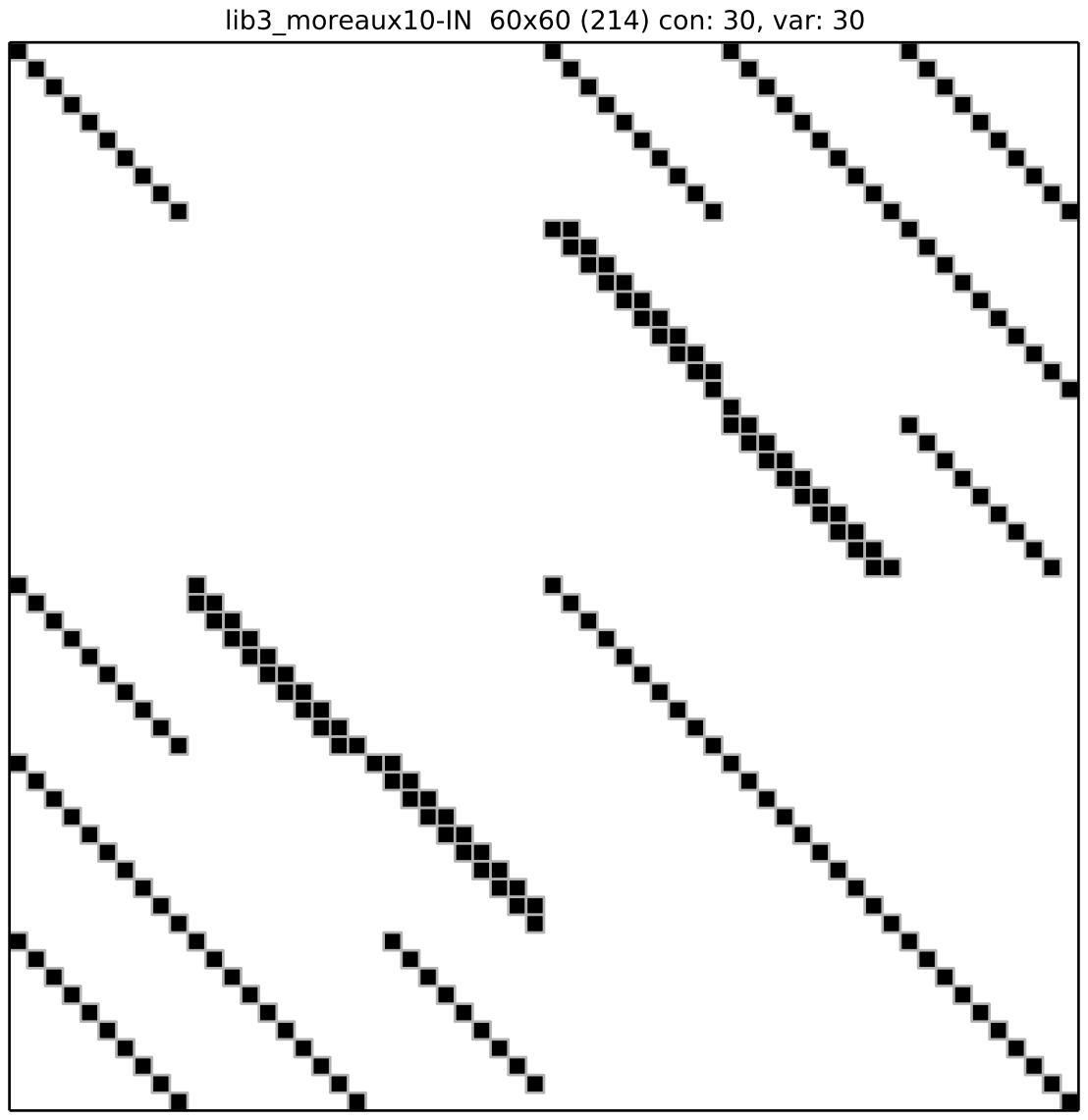
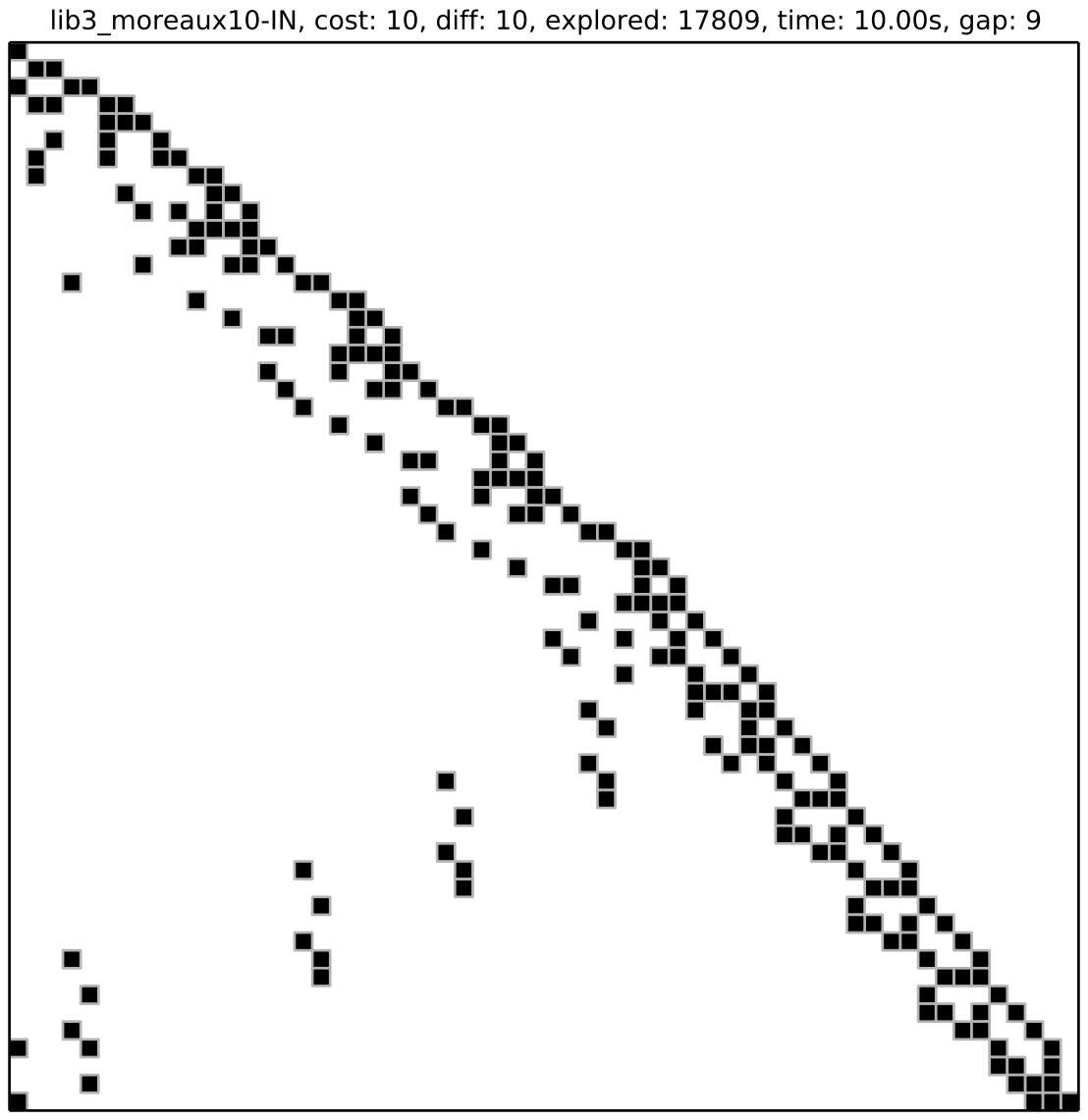

lib3_moreaux10-IN 60x60 (214) con: 30, var: 30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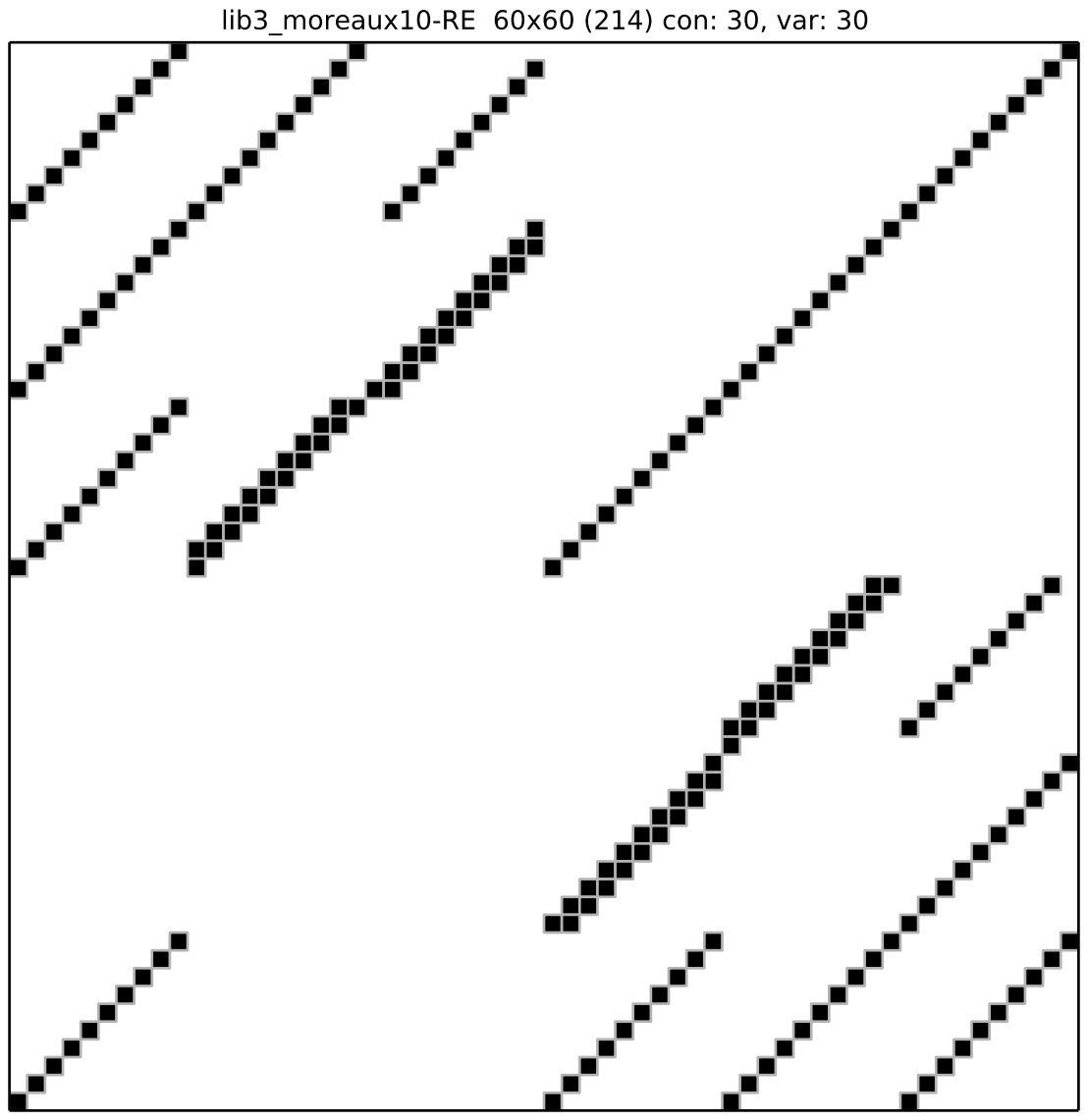
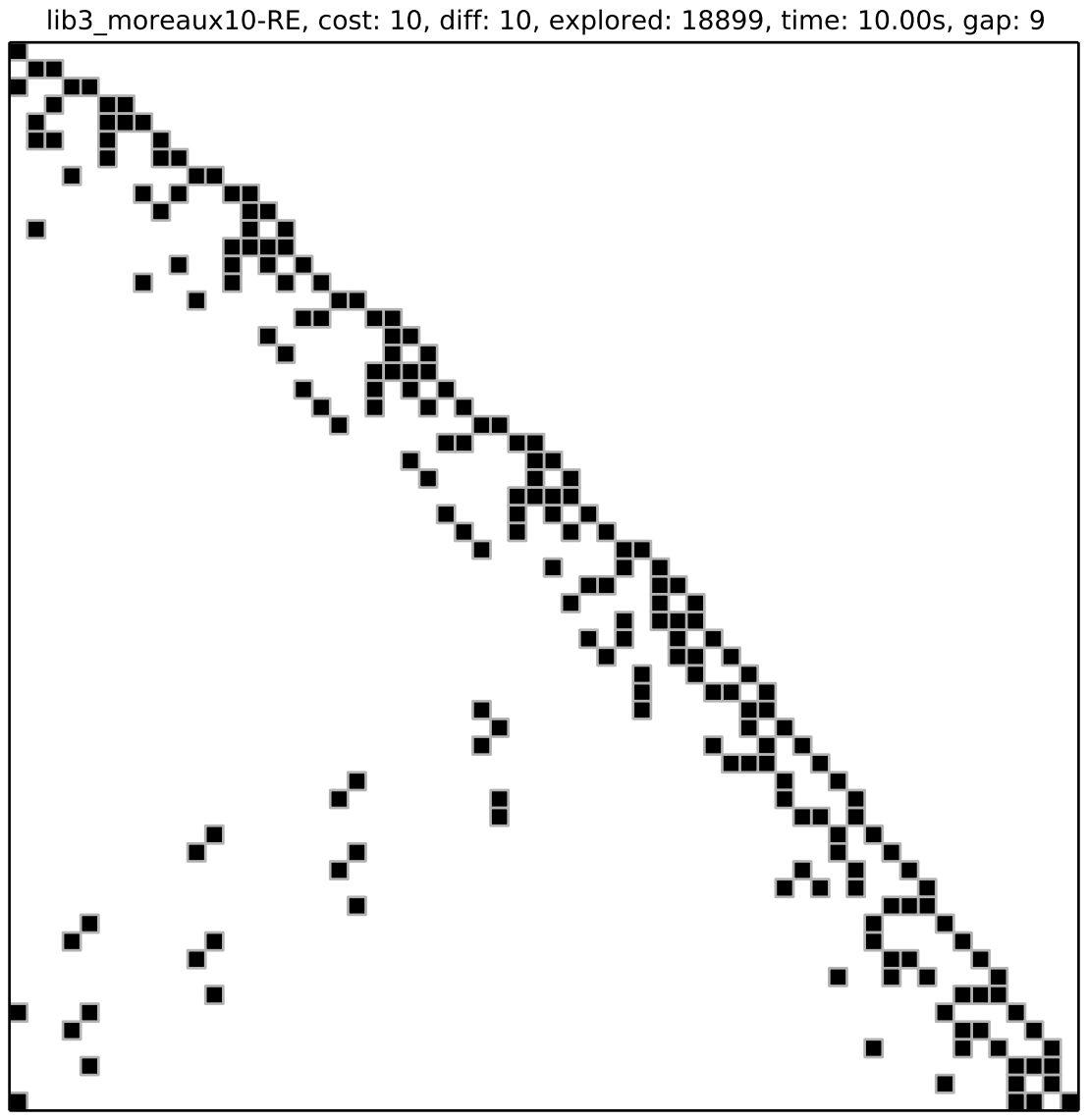
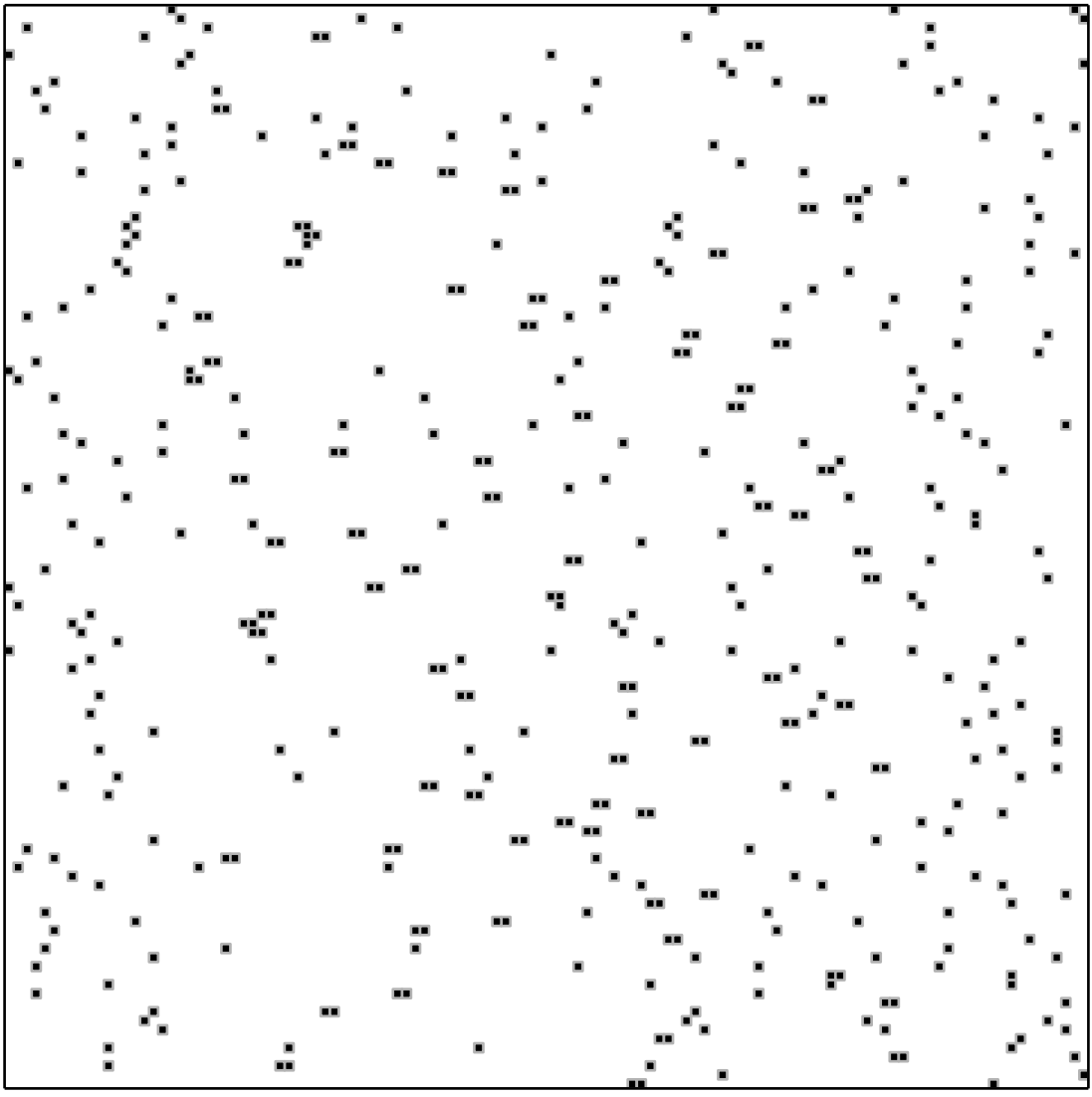
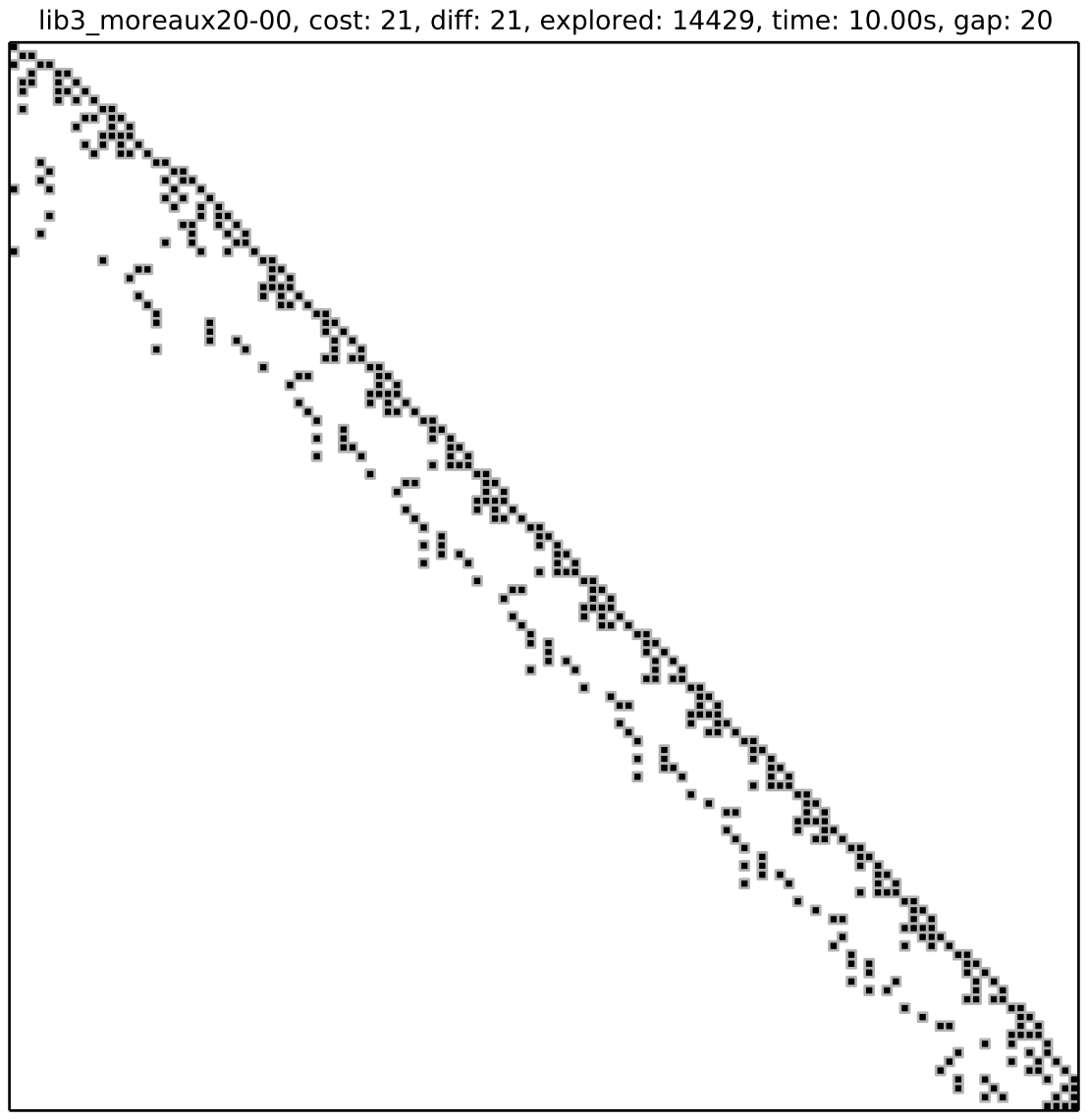

lib3_moreaux10-RE 60x60 (214) con: 30, var: 30

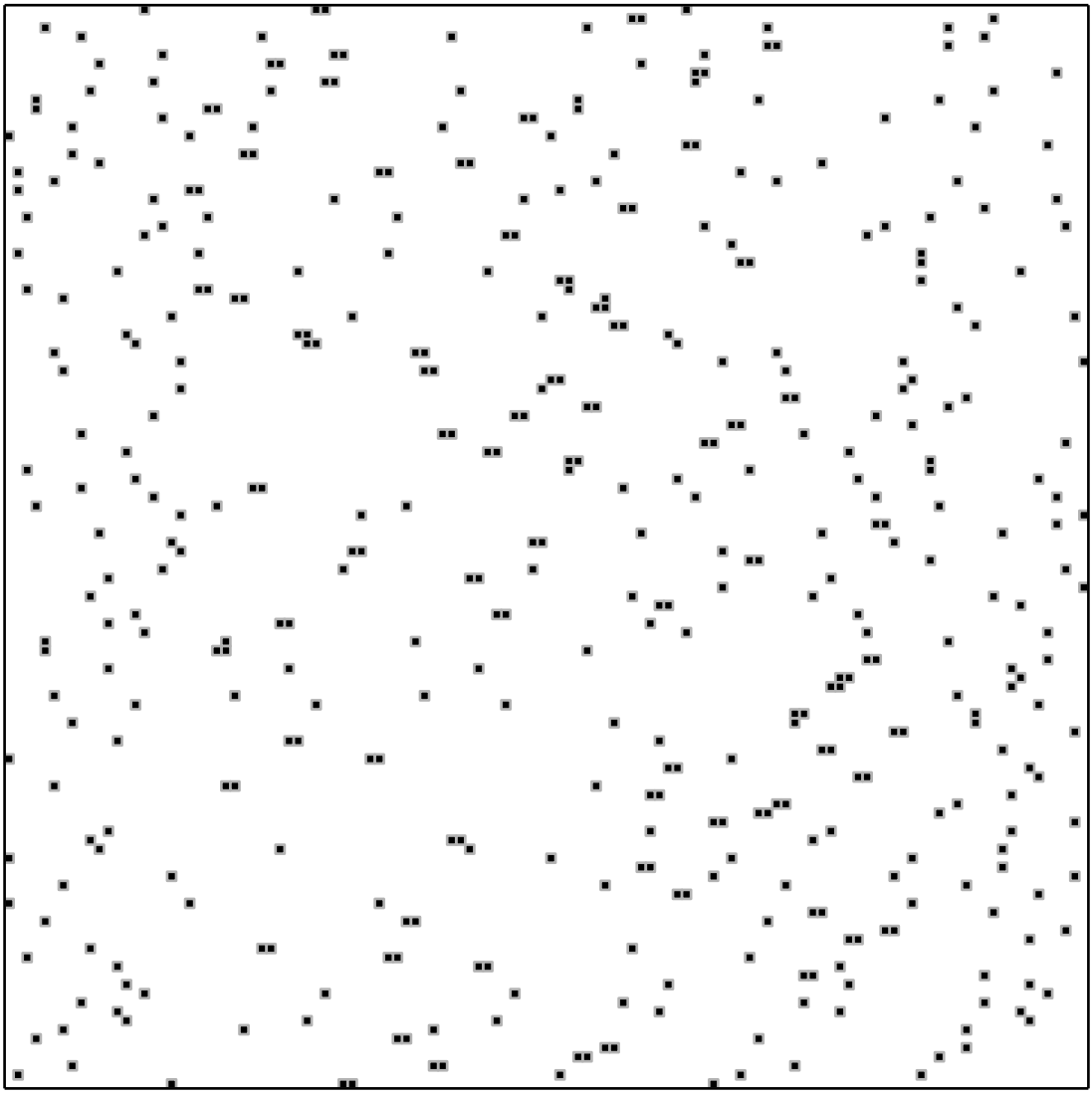

lib3_moreaux10-RE, cost: 10, diff: 10, explored: 18899, time: 10.00s, gap: 9

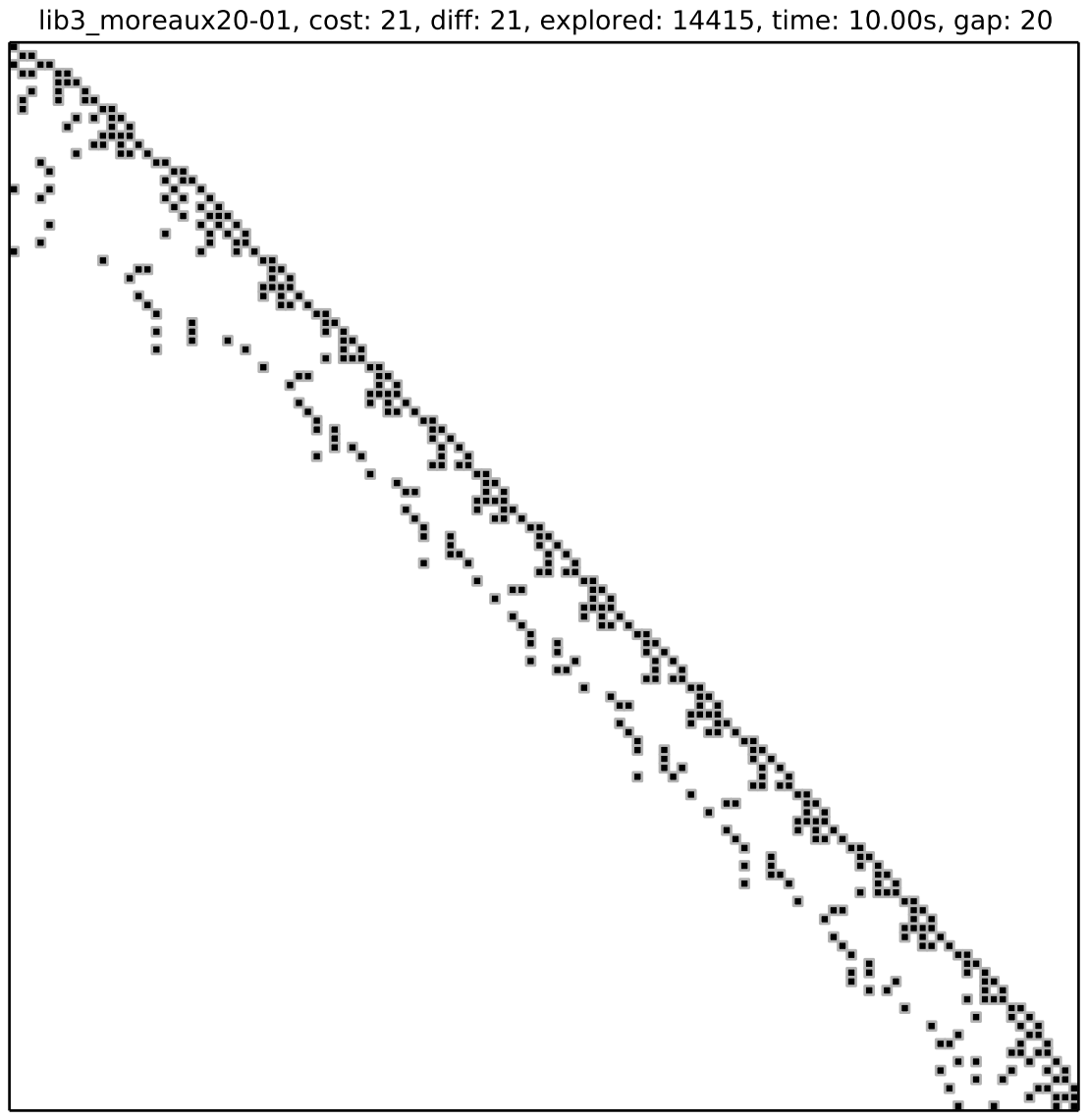
lib3_moreaux20-00 120x120 (434) con: 60, var: 60




lib3_moreaux20-00, cost: 21, diff: 21, explored: 14429, time: 10.00s, gap: 20

lib3_moreaux20-01 120x120 (434) con: 60, var: 60

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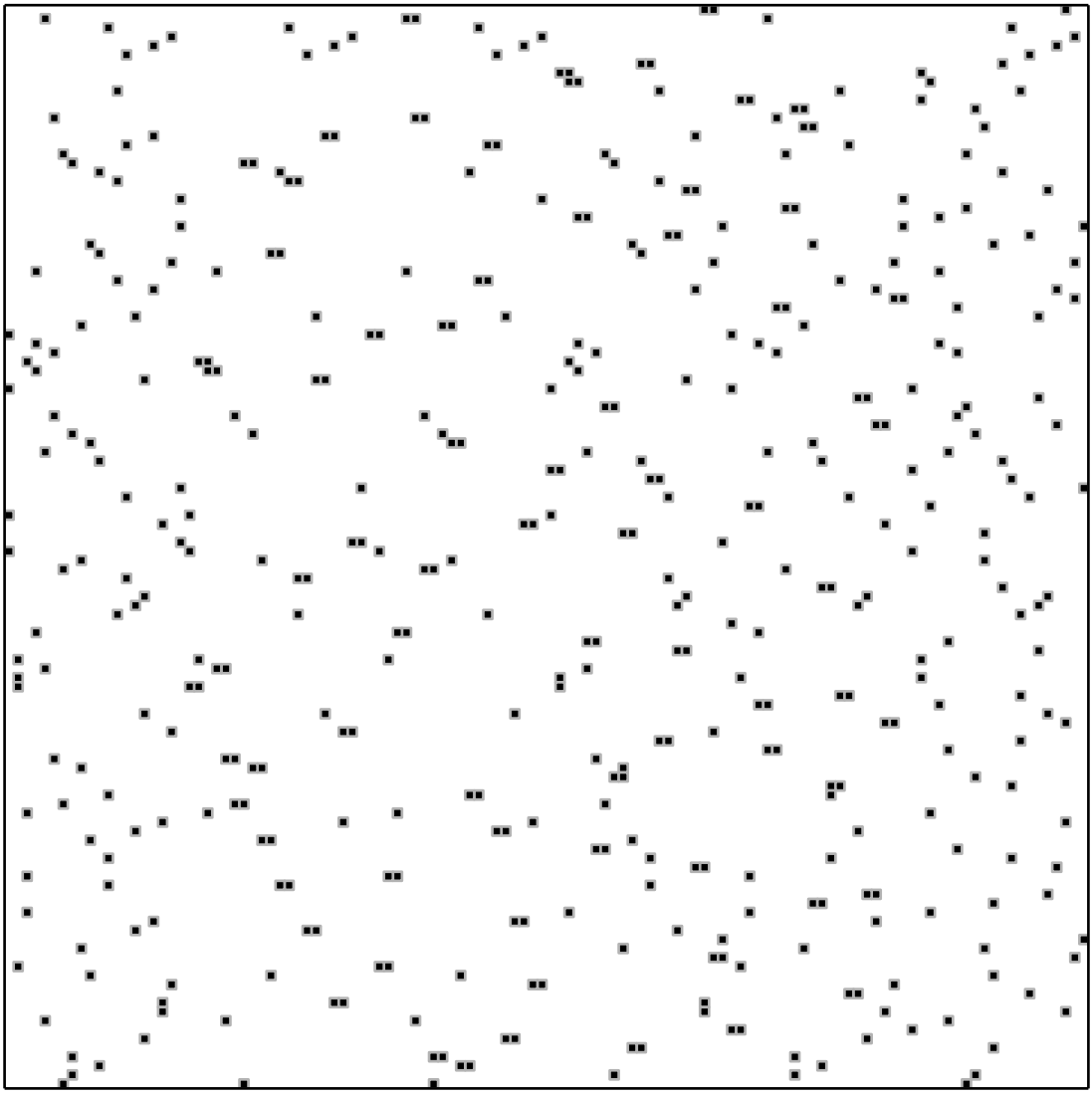
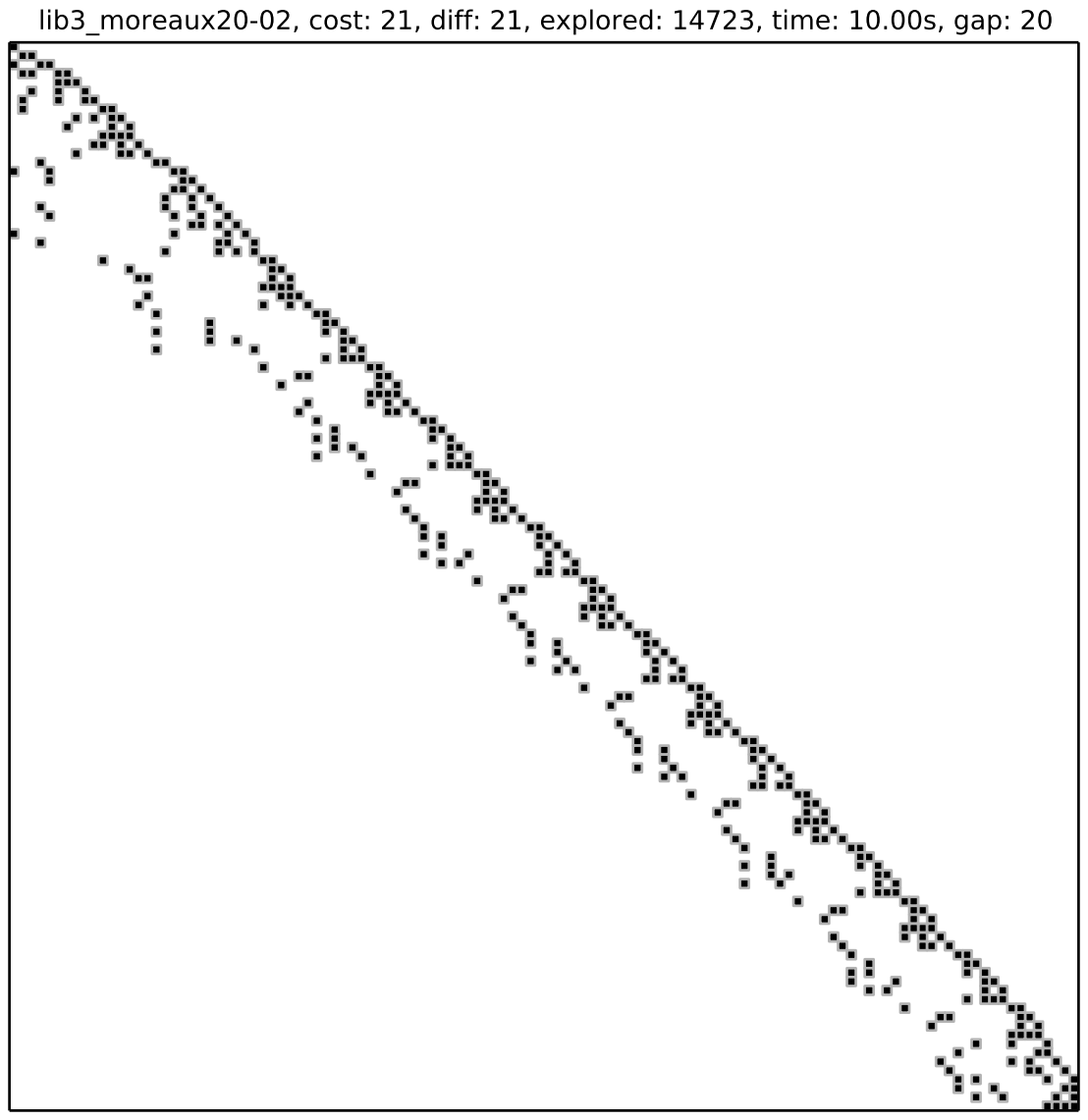
lib3_moreaux20-02 120x120 (434) con: 60, var: 60

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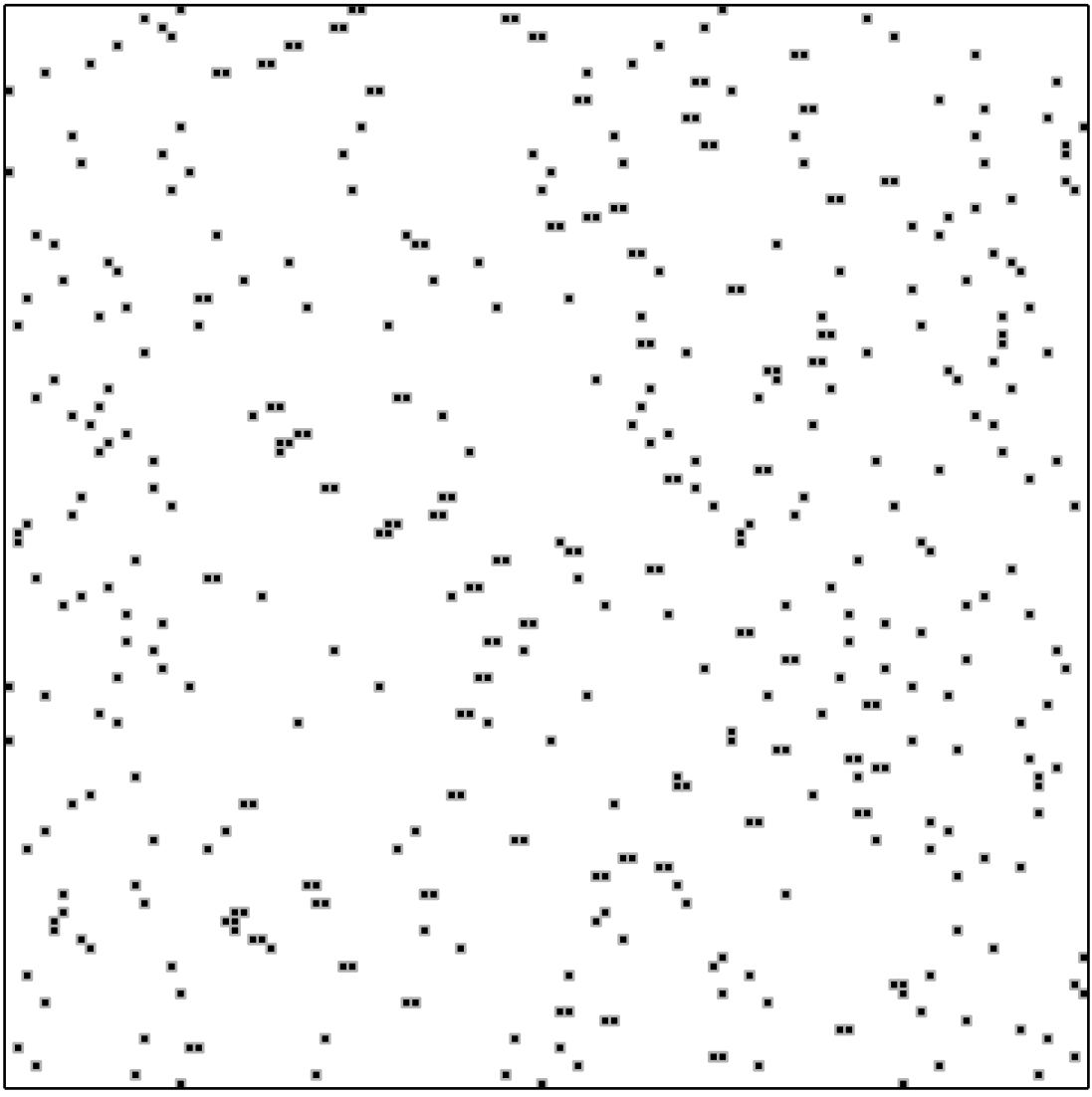
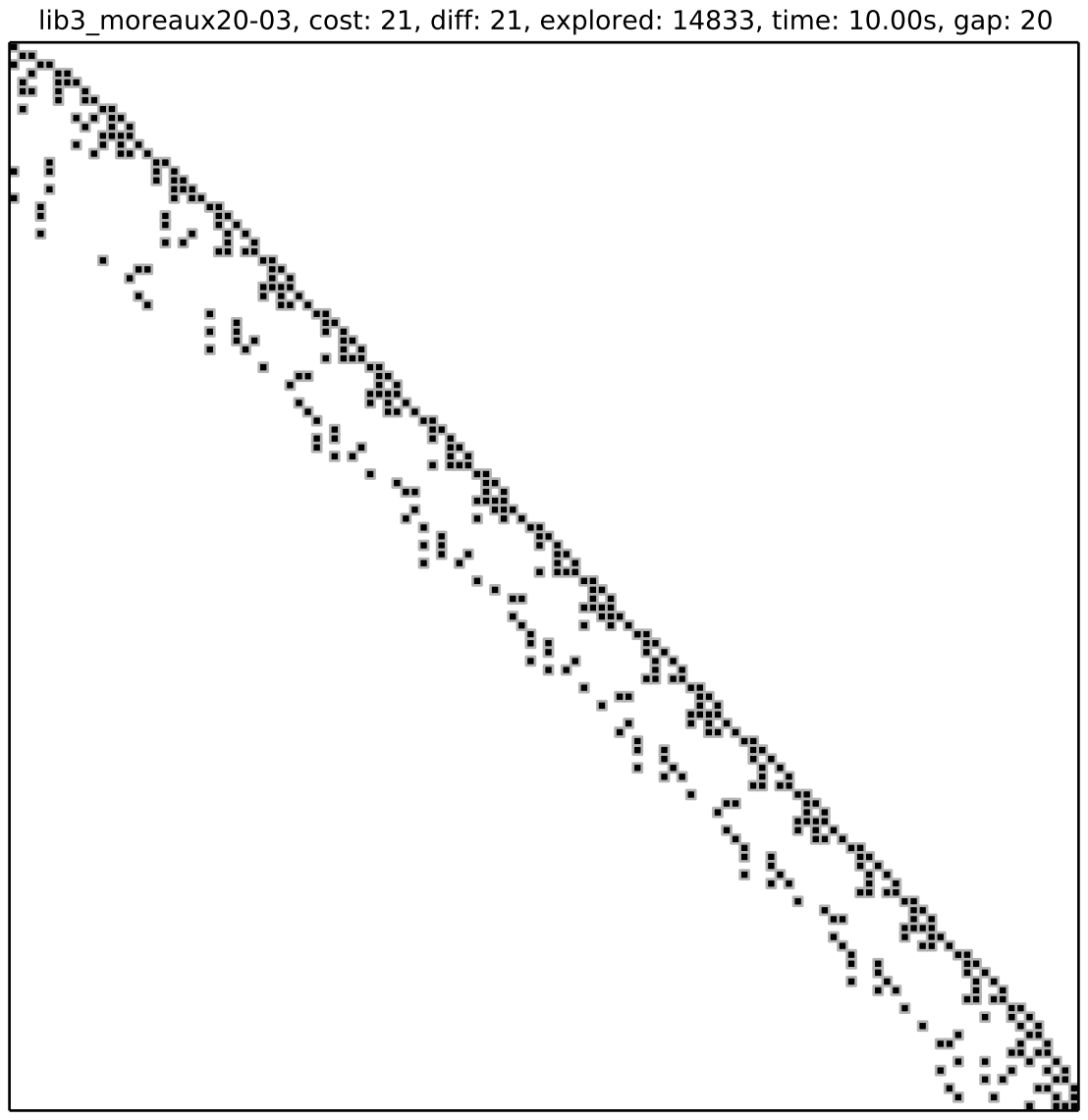
lib3_moreaux20-03 120x120 (434) con: 60, var: 60

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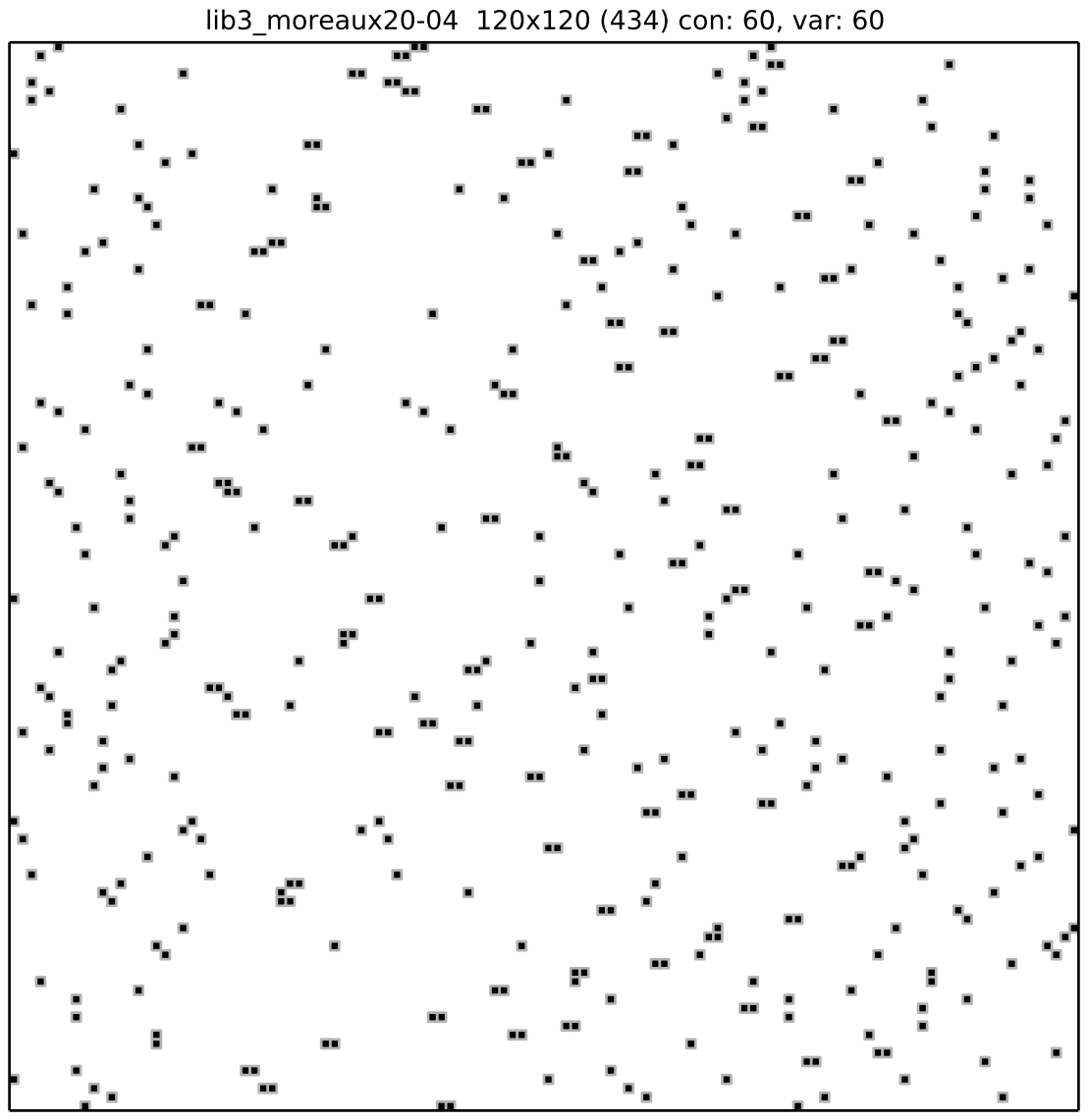
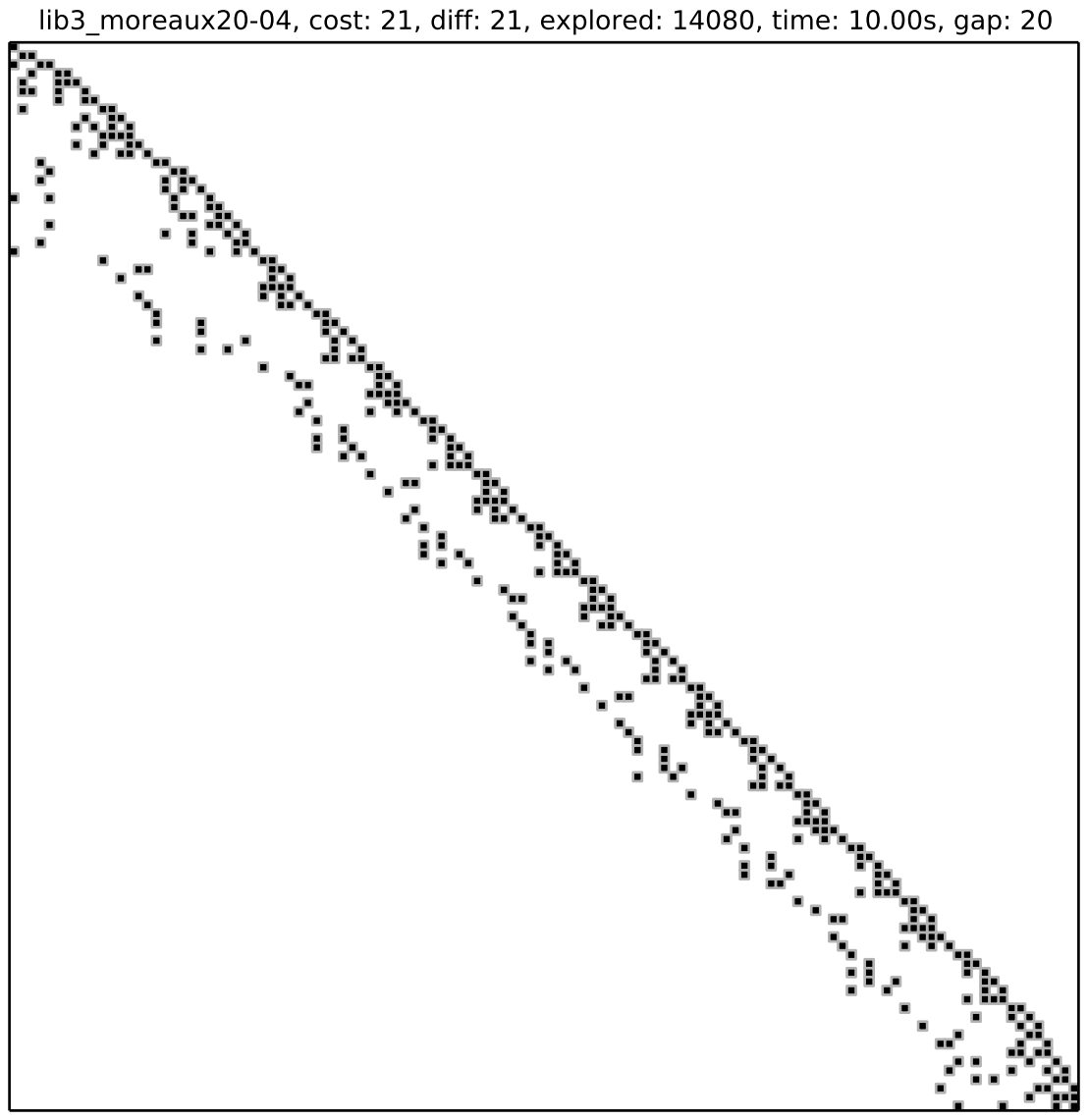

lib3_moreaux20-04 120x120 (434) con: 60, var: 60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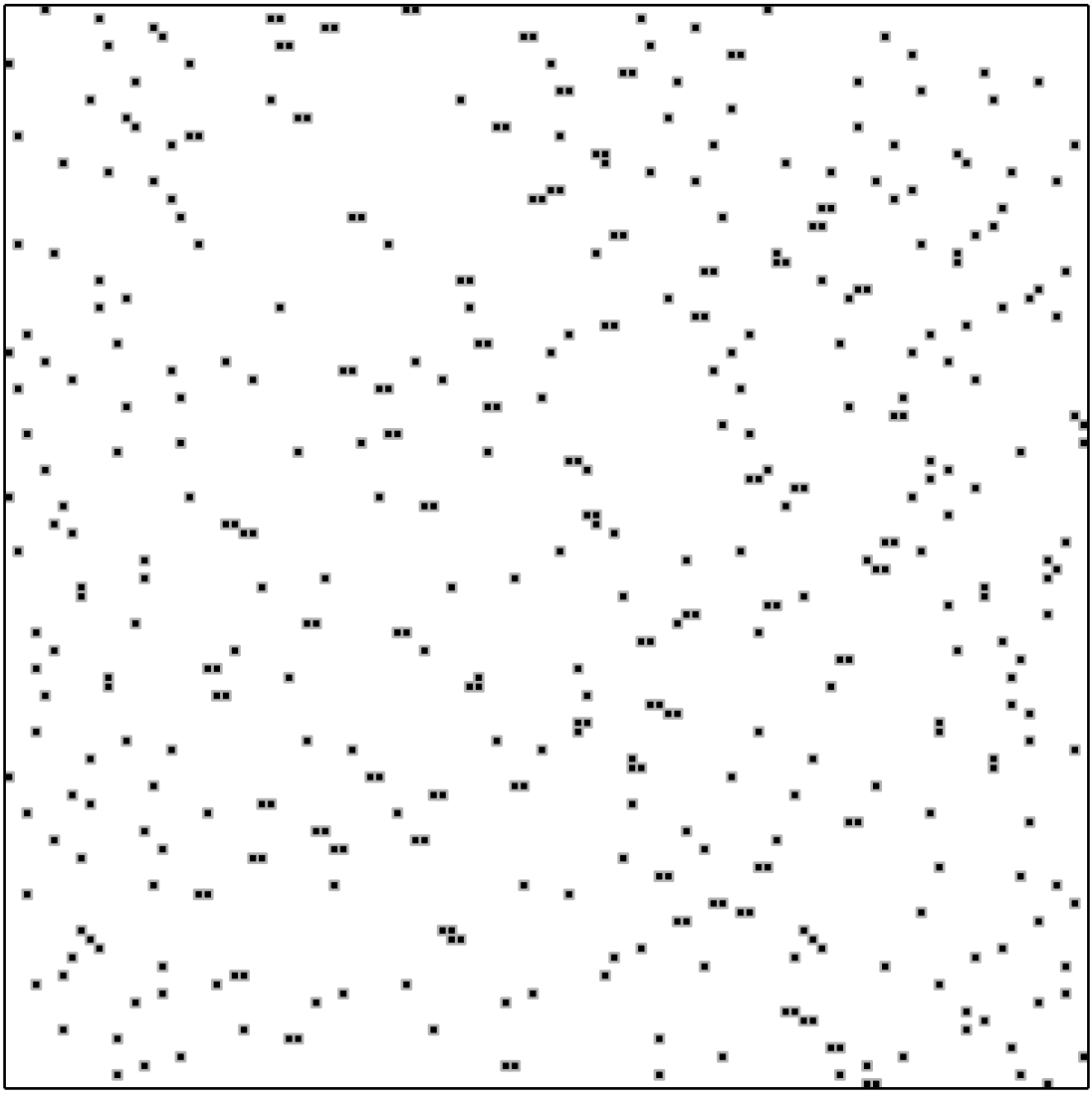
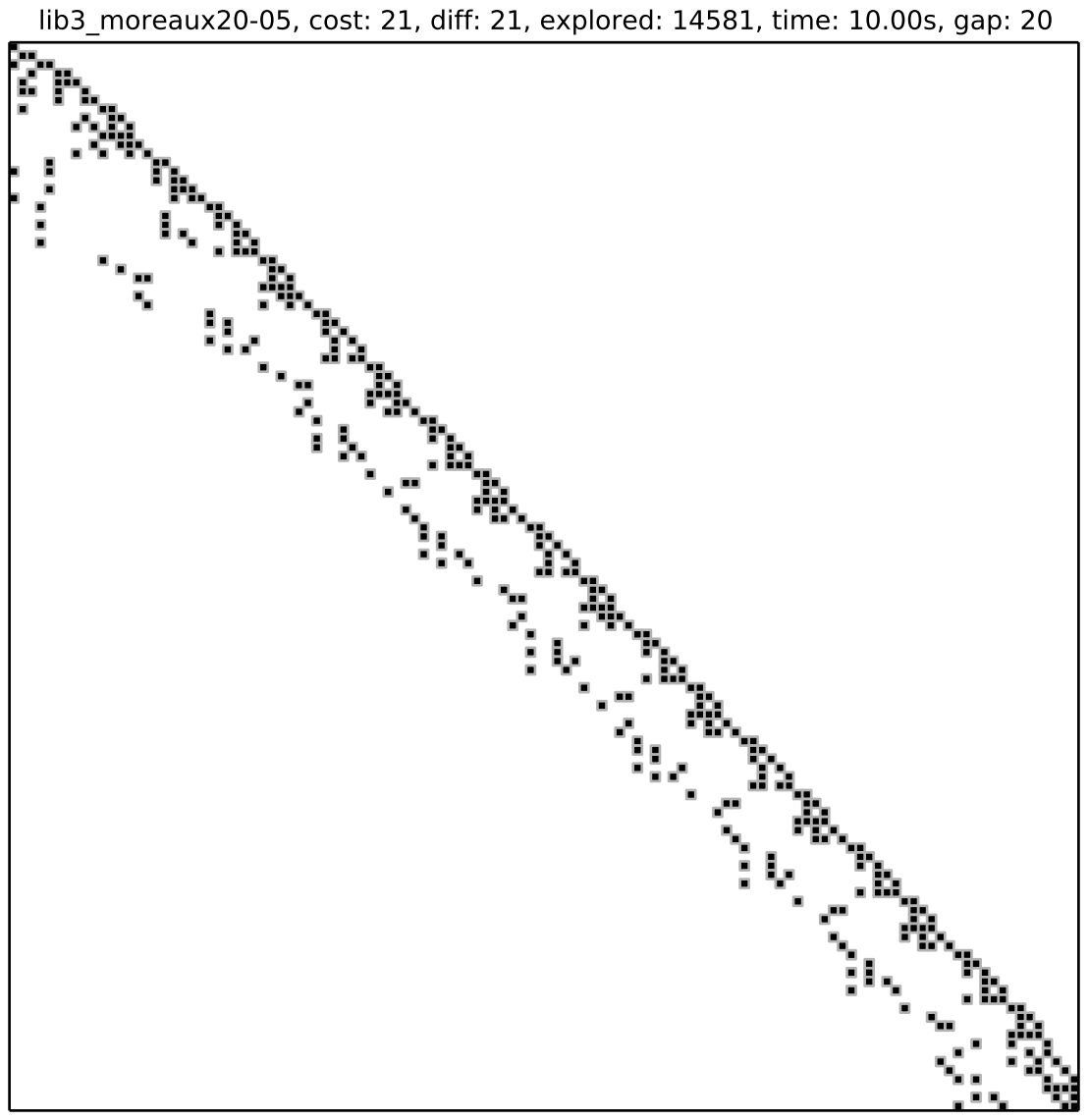
lib3_moreaux20-05 120x120 (434) con: 60, var: 60

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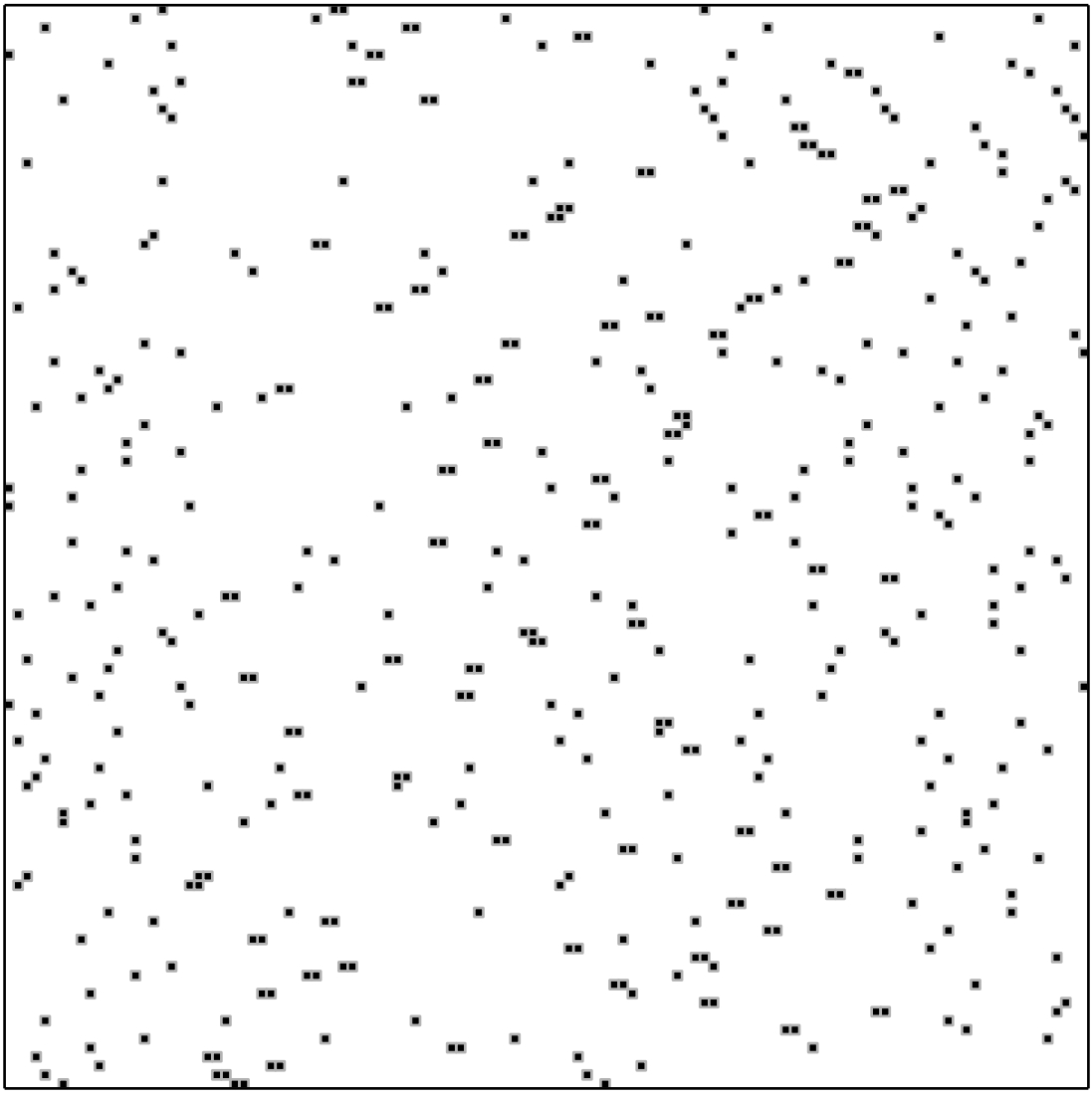
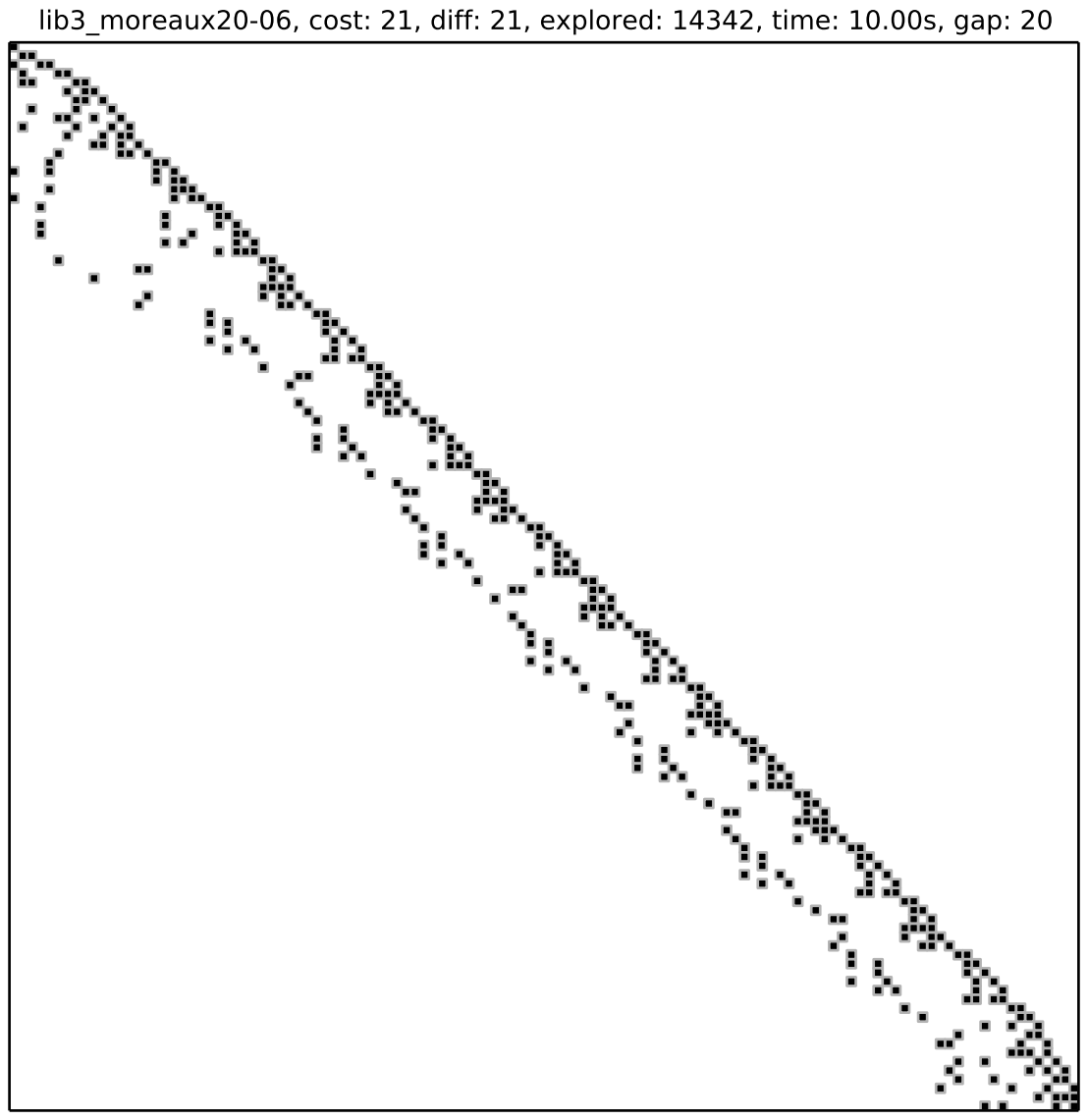
lib3_moreaux20-06 120x120 (434) con: 60, var: 60

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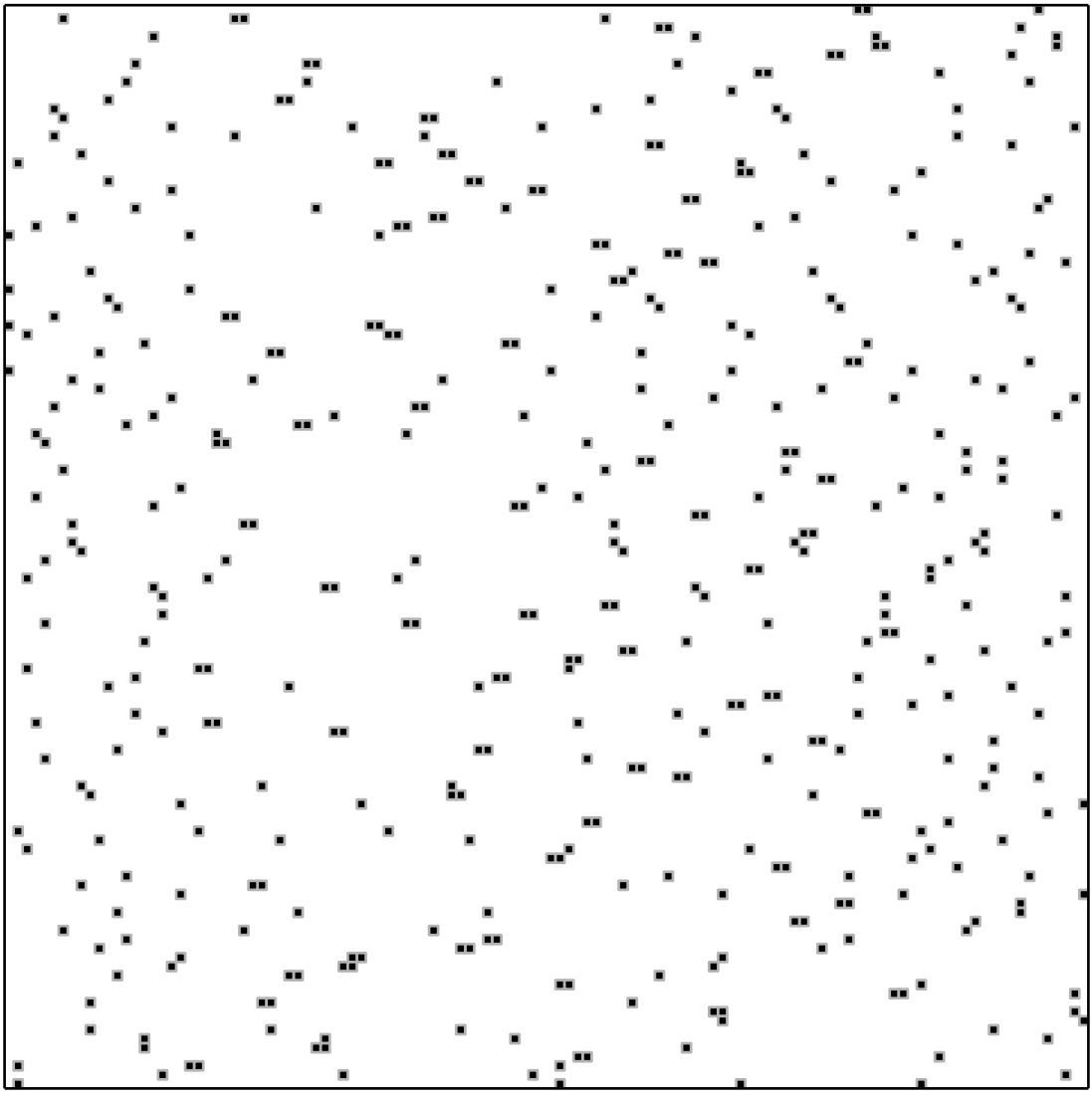
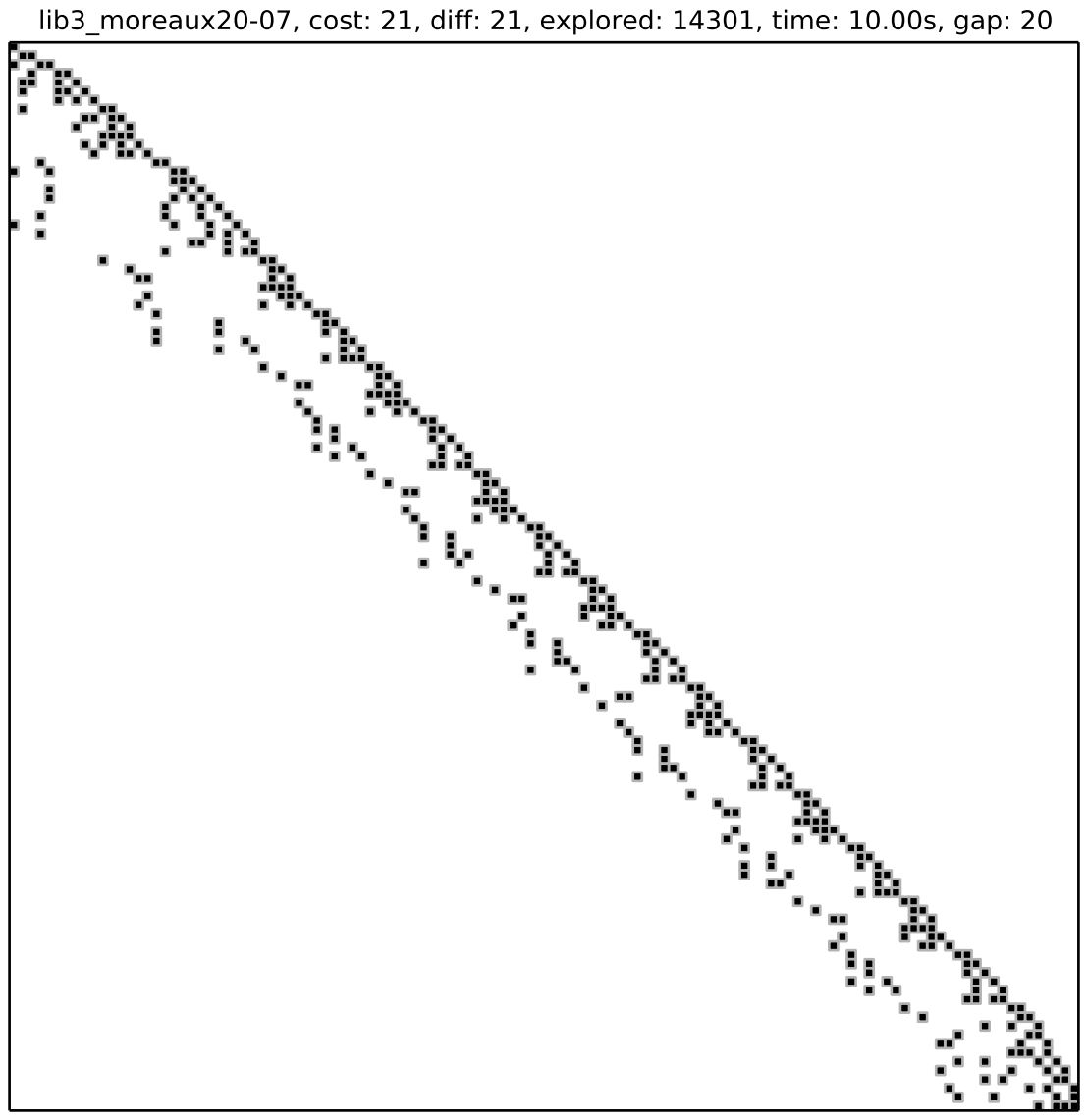
lib3_moreaux20-07 120x120 (434) con: 60, var: 60

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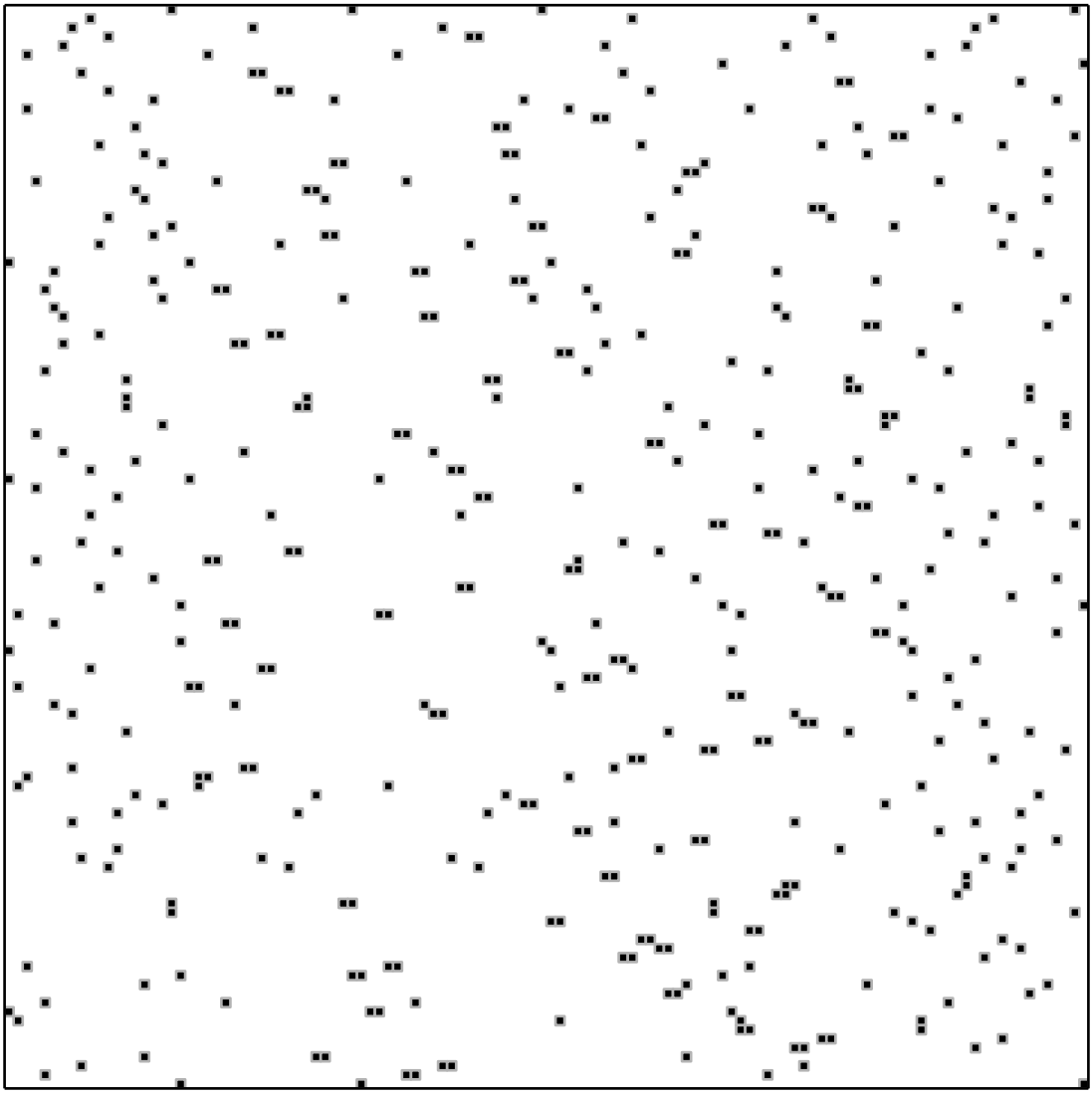
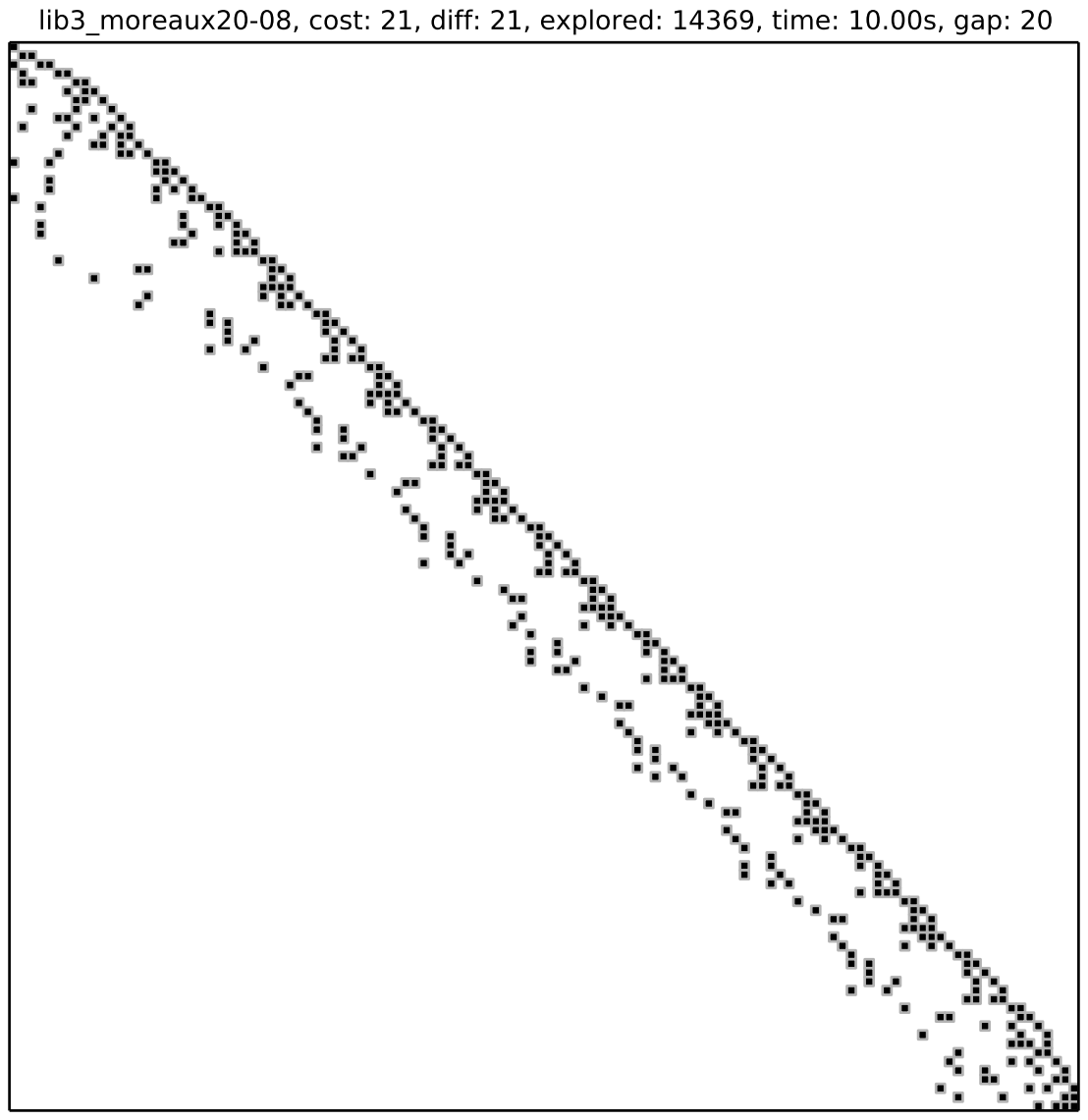
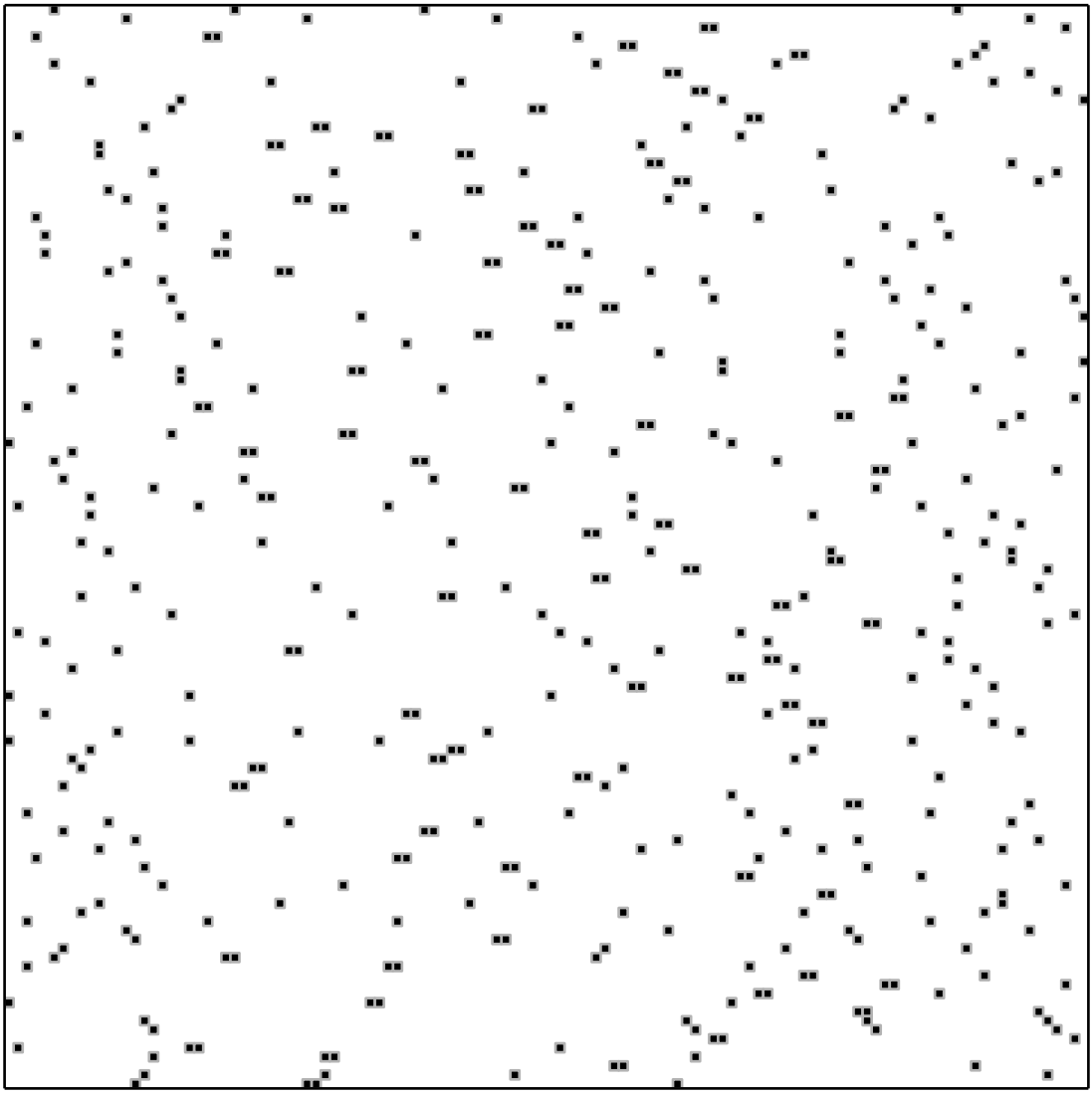
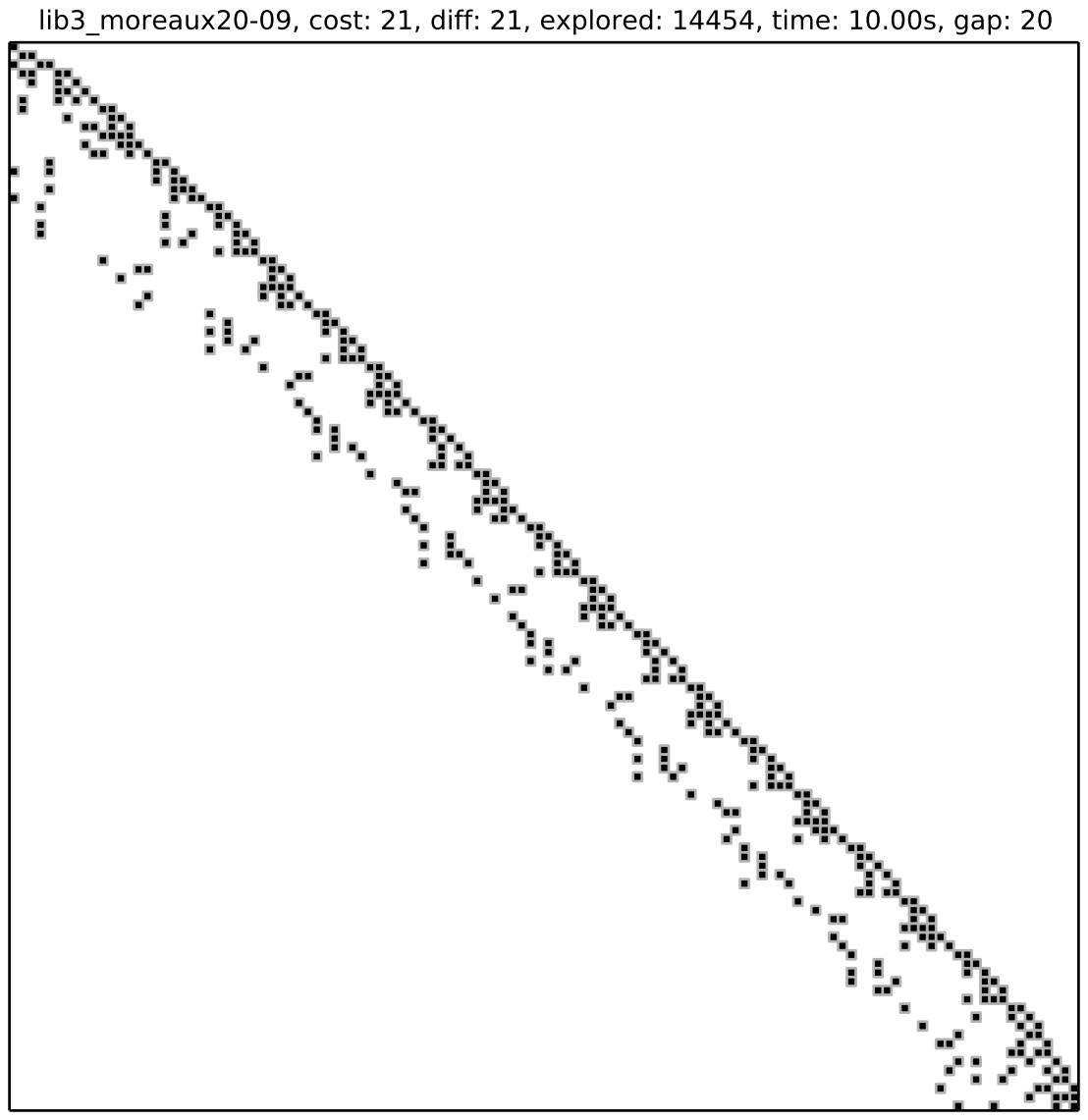
lib3_moreaux20-08 120x120 (434) con: 60, var: 60

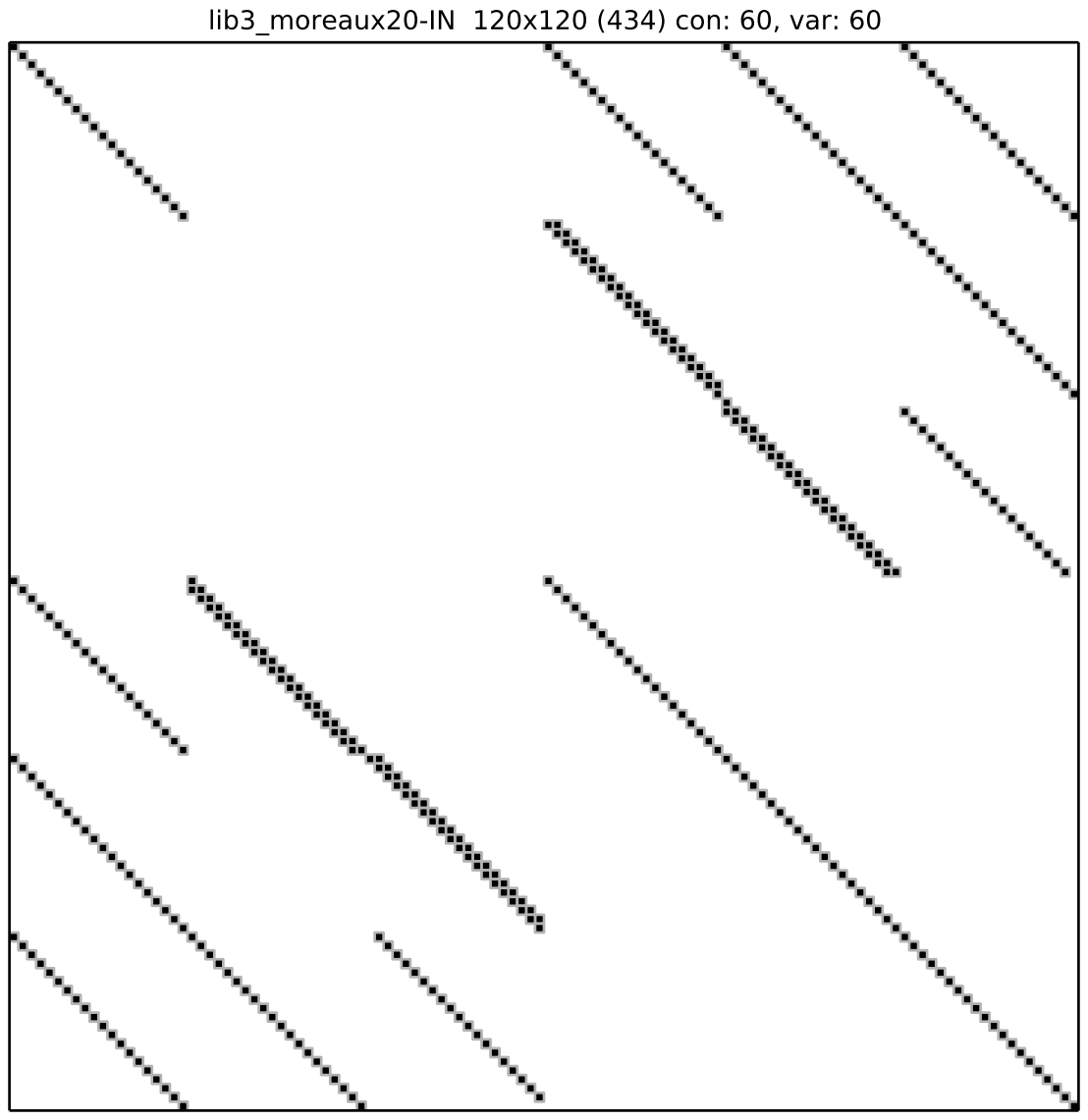


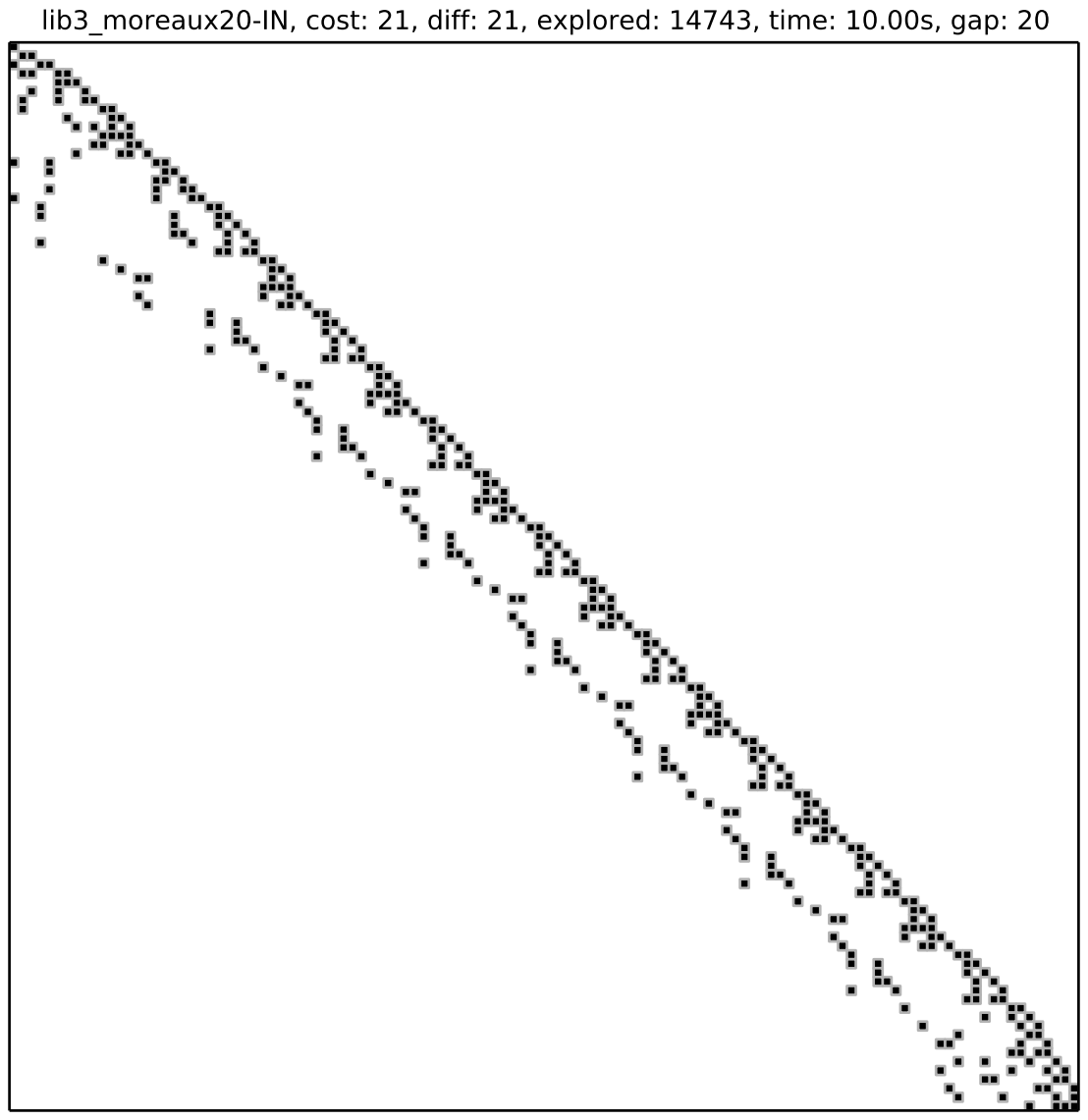

lib3_moreaux20-08, cost: 21, diff: 21, explored: 14369, time: 10.00s, gap: 20

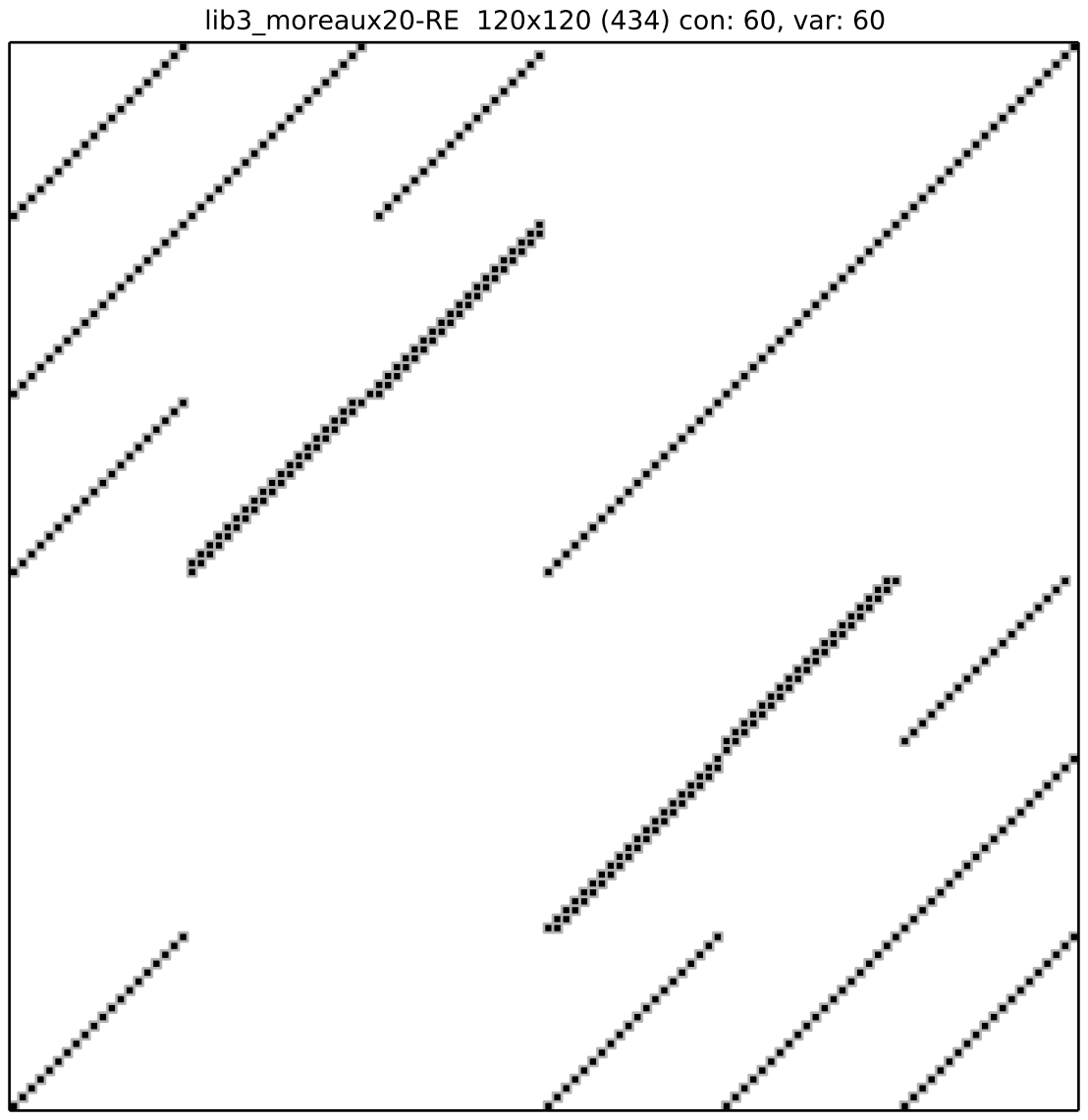
lib3_moreaux20-09 120x120 (434) con: 60, var: 60

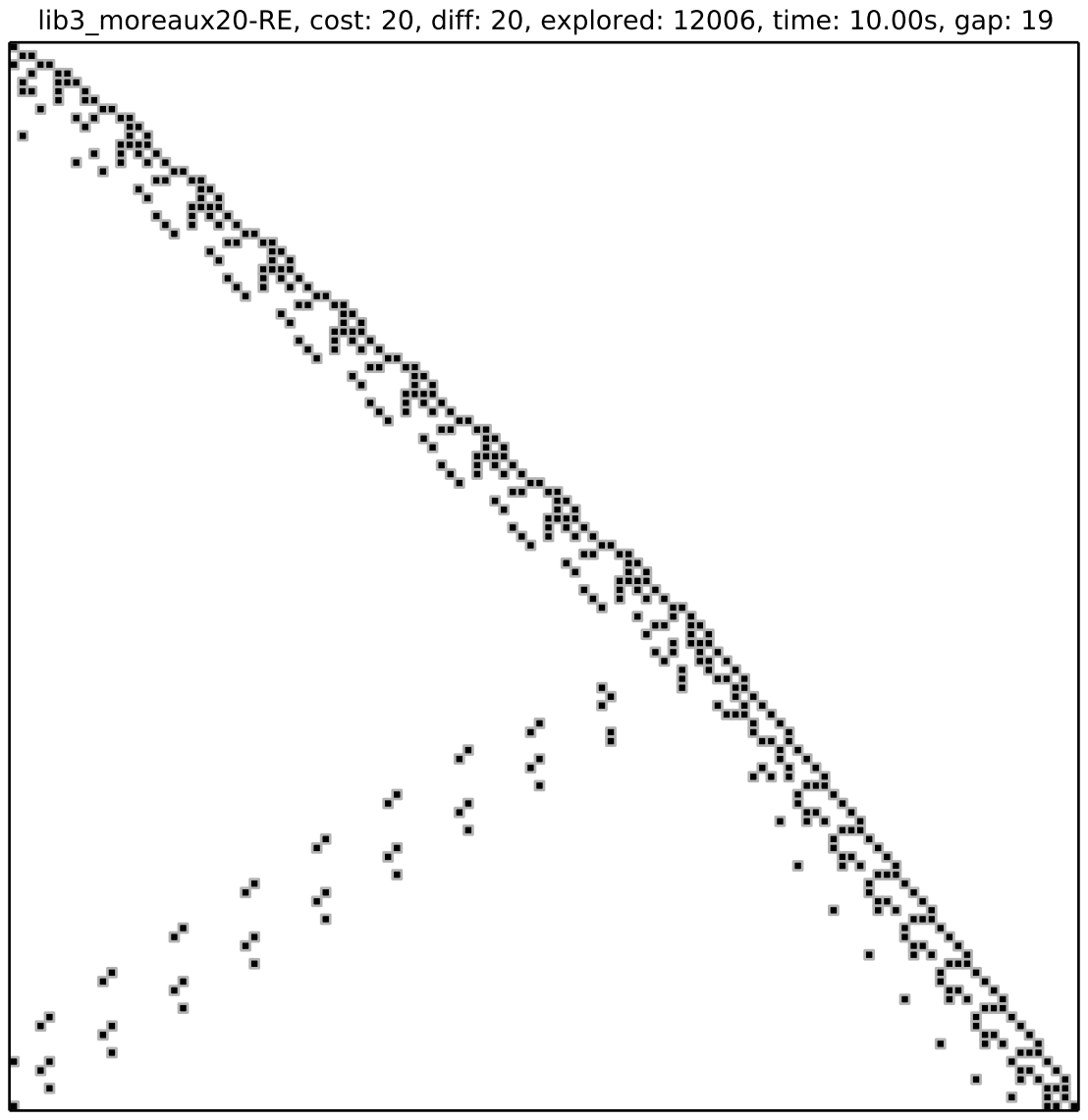



lib3_moreaux20-09, cost: 21, diff: 21, explored: 14454, time: 10.00s, gap: 20

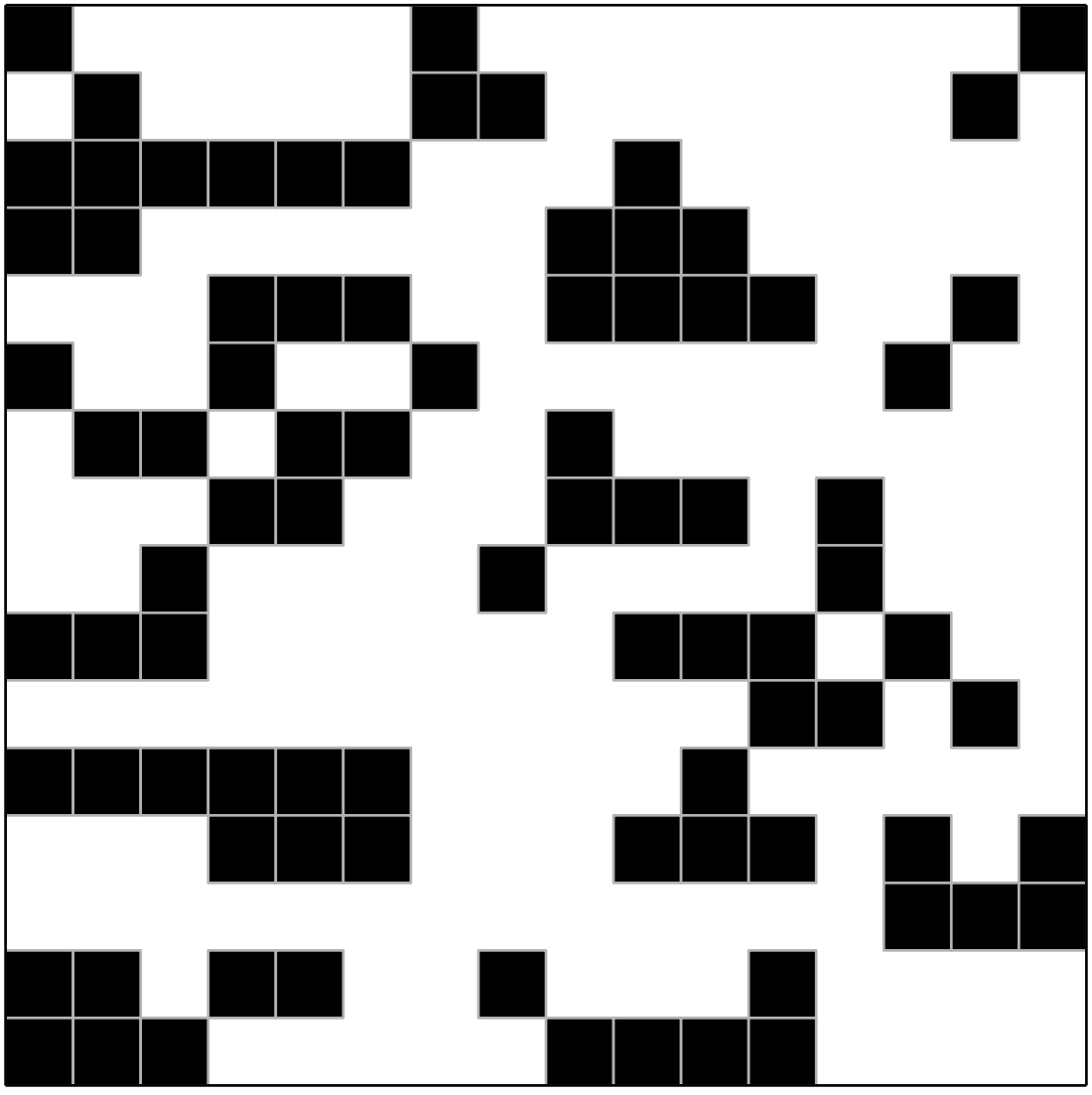

lib3_moreaux20-IN 120x120 (434) con: 60, var: 60


lib3_moreaux20-IN, cost: 21, diff: 21, explored: 14743, time: 10.00s, gap: 20

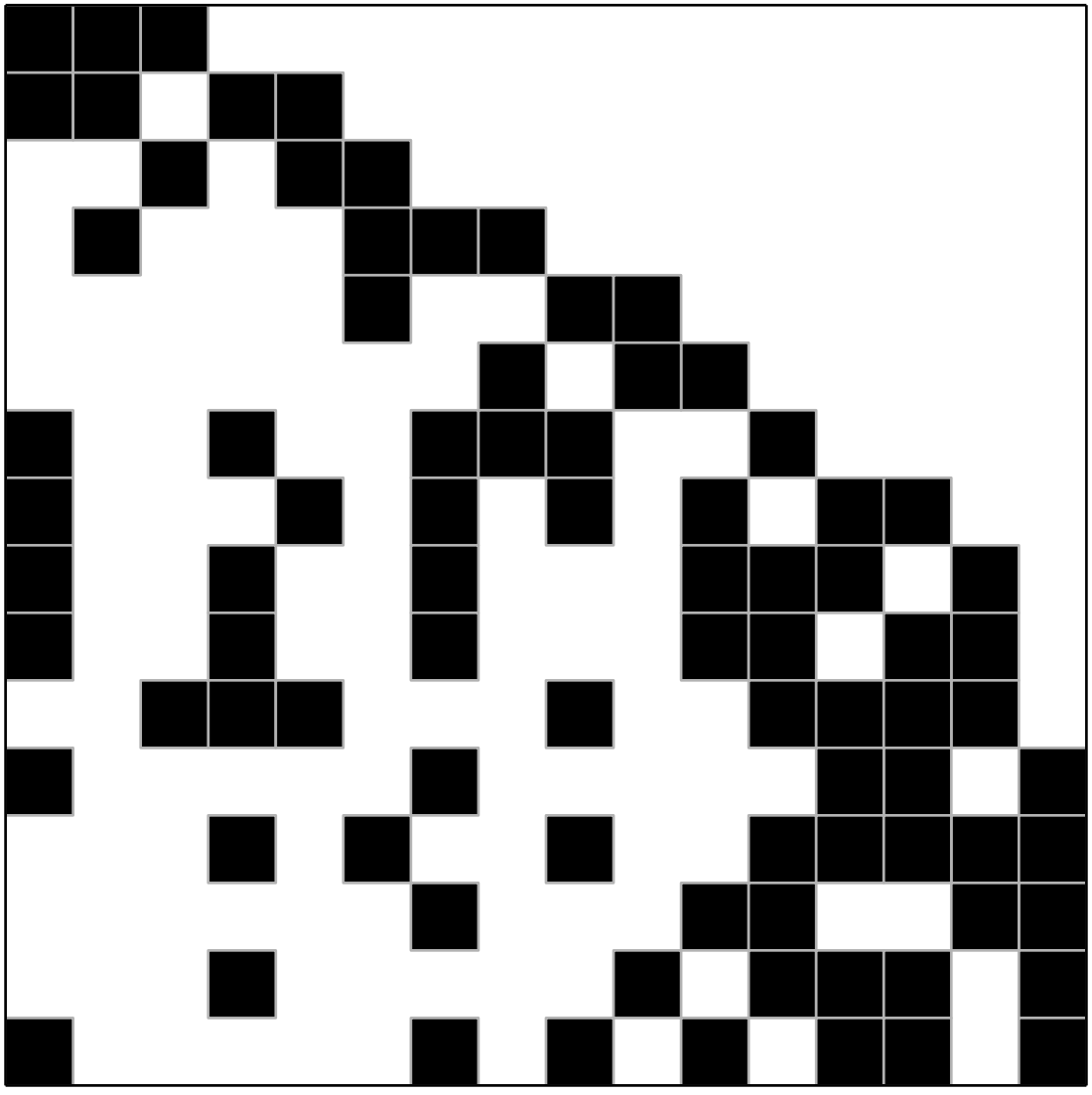

lib3_moreaux20-RE 120x120 (434) con: 60, var: 60


lib3_moreaux20-RE, cost: 20, diff: 20, explored: 12006, time: 10.00s, gap: 19

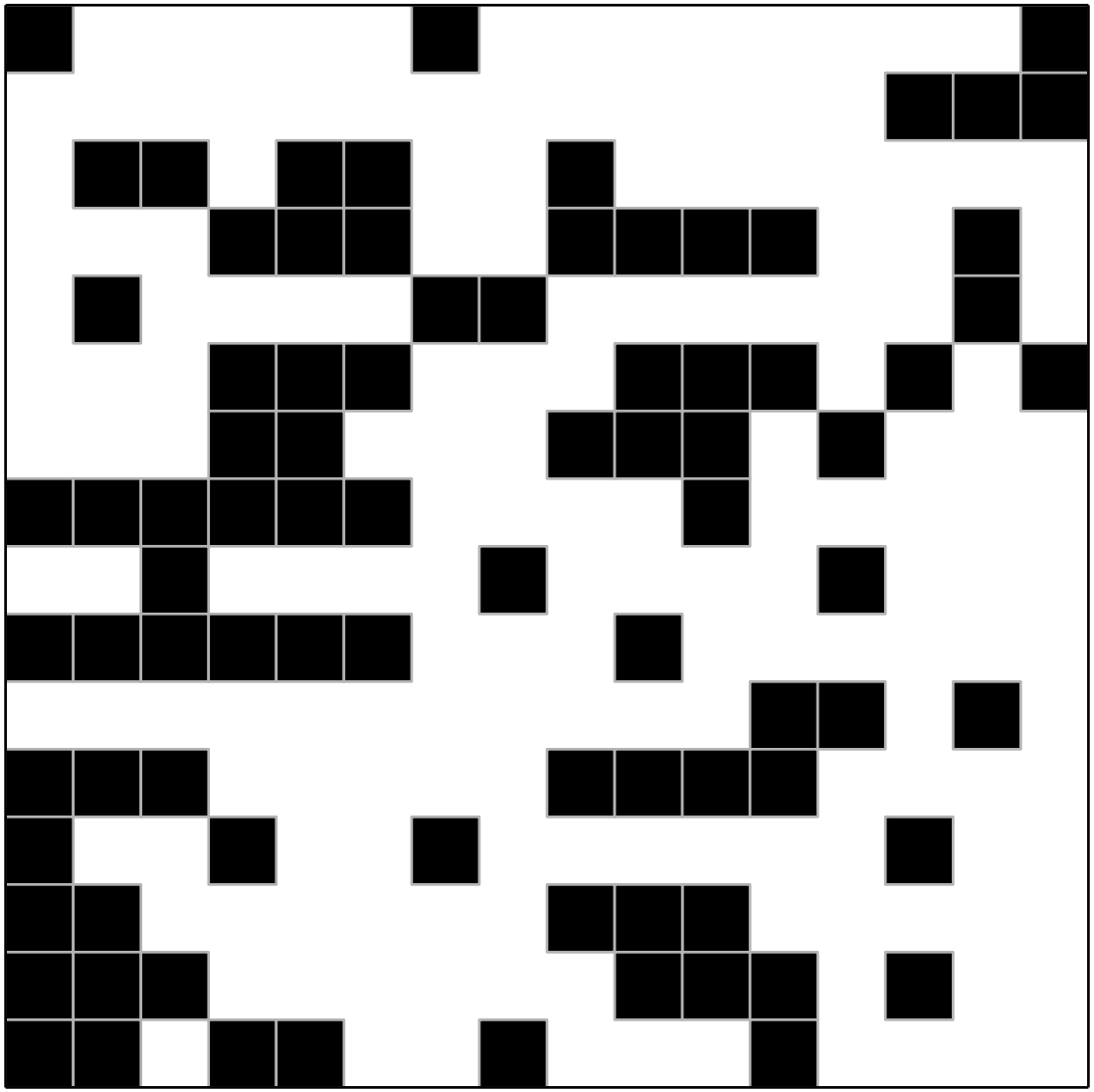
lib3_nauheim-00 16x16 (86) con: 8, var: 8



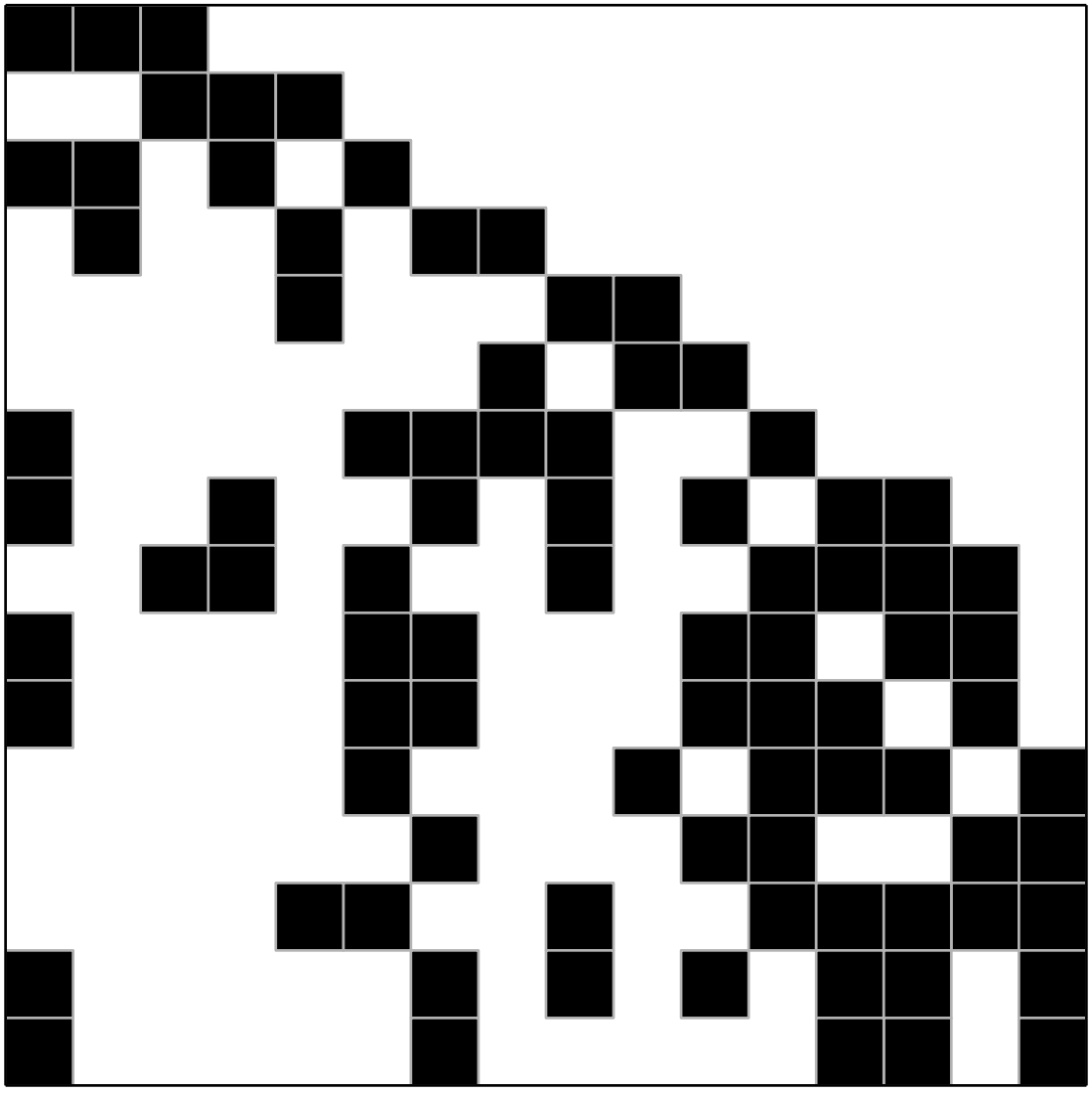
lib3_nauheim-00, cost: 6, diff: 6, explored: 39, time: 0.01s



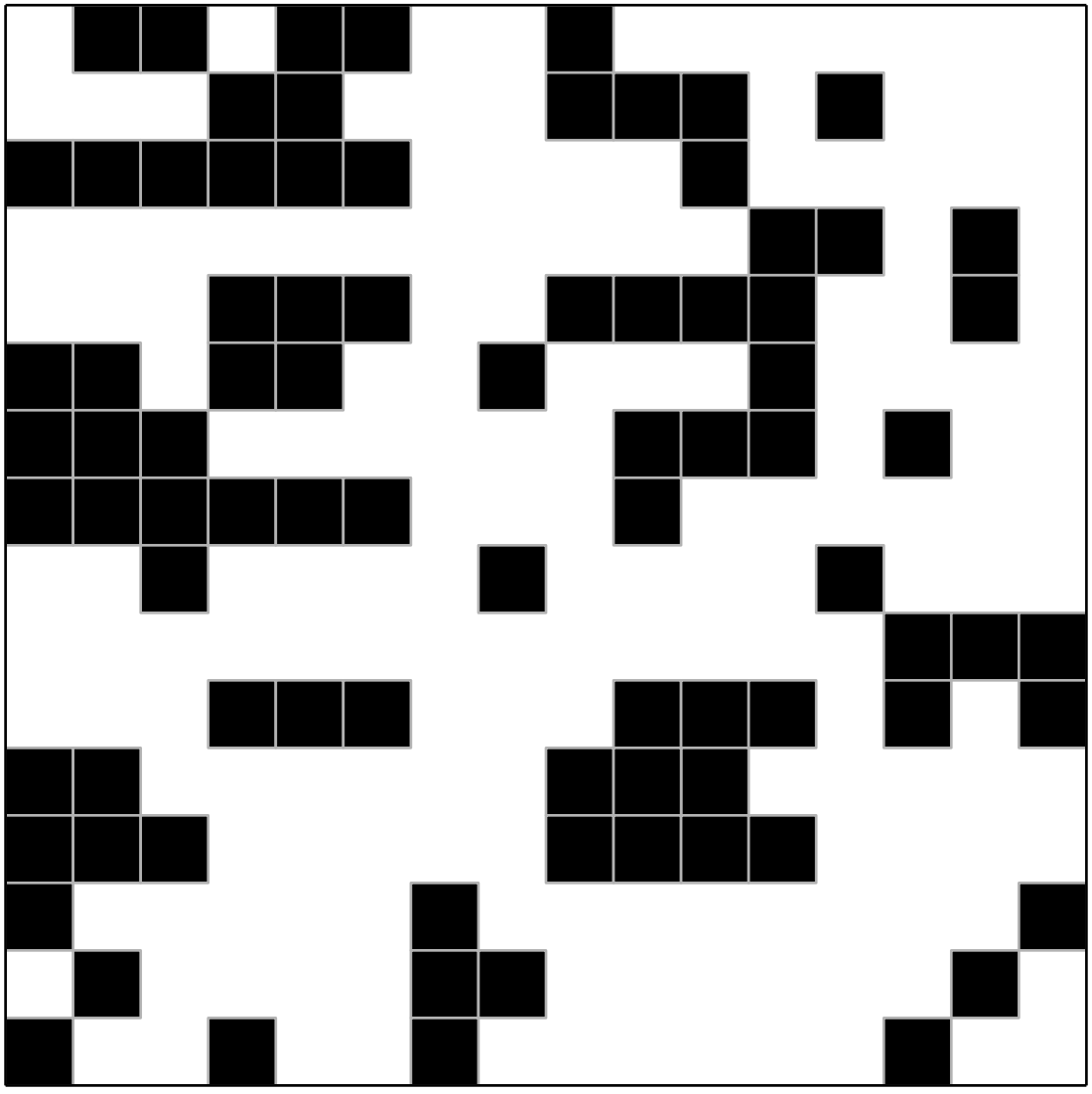
lib3_nauheim-01 16x16 (86) con: 8, var: 8

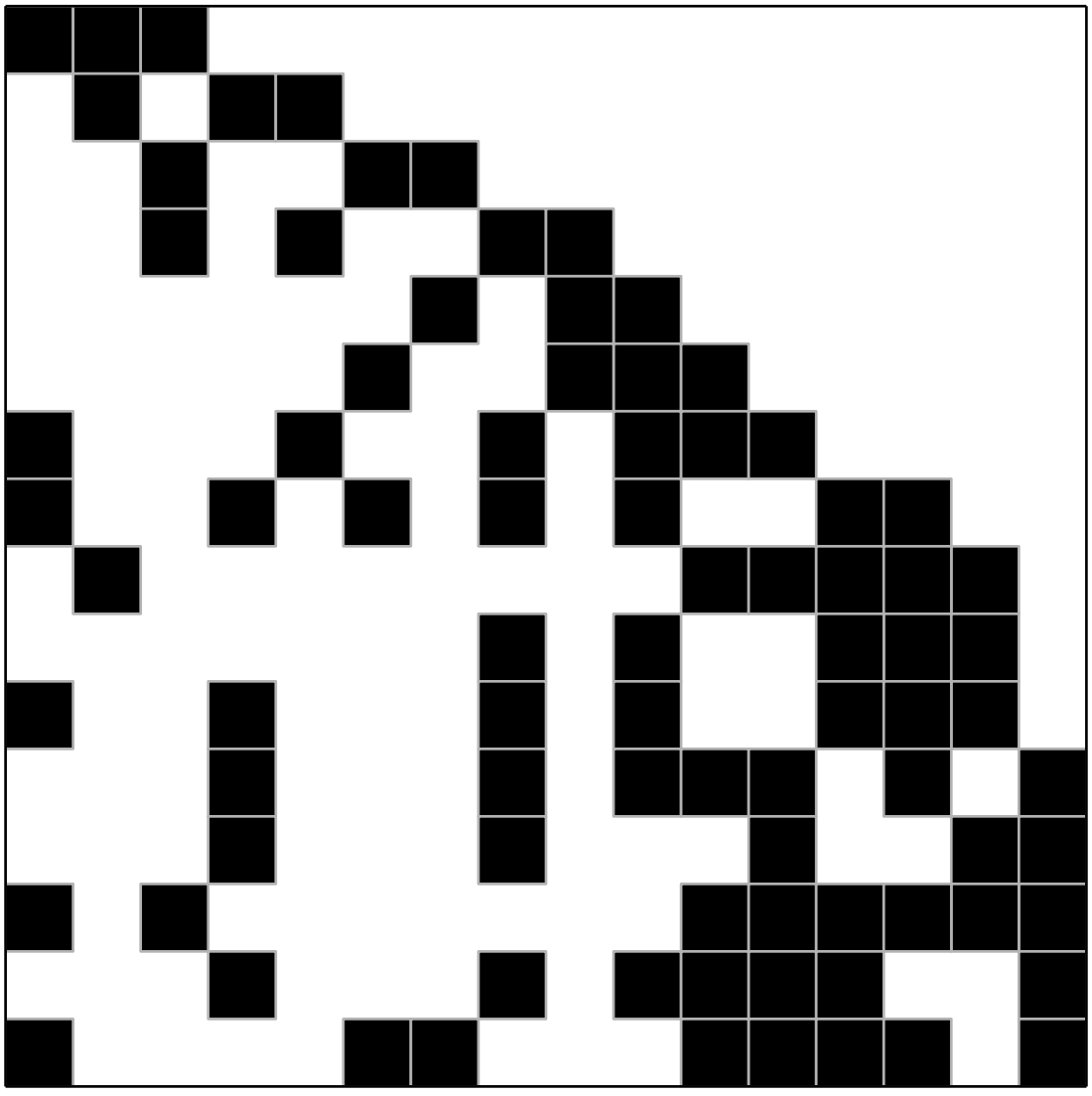


lib3_nauheim-01, cost: 6, diff: 6, explored: 38, time: 0.01s

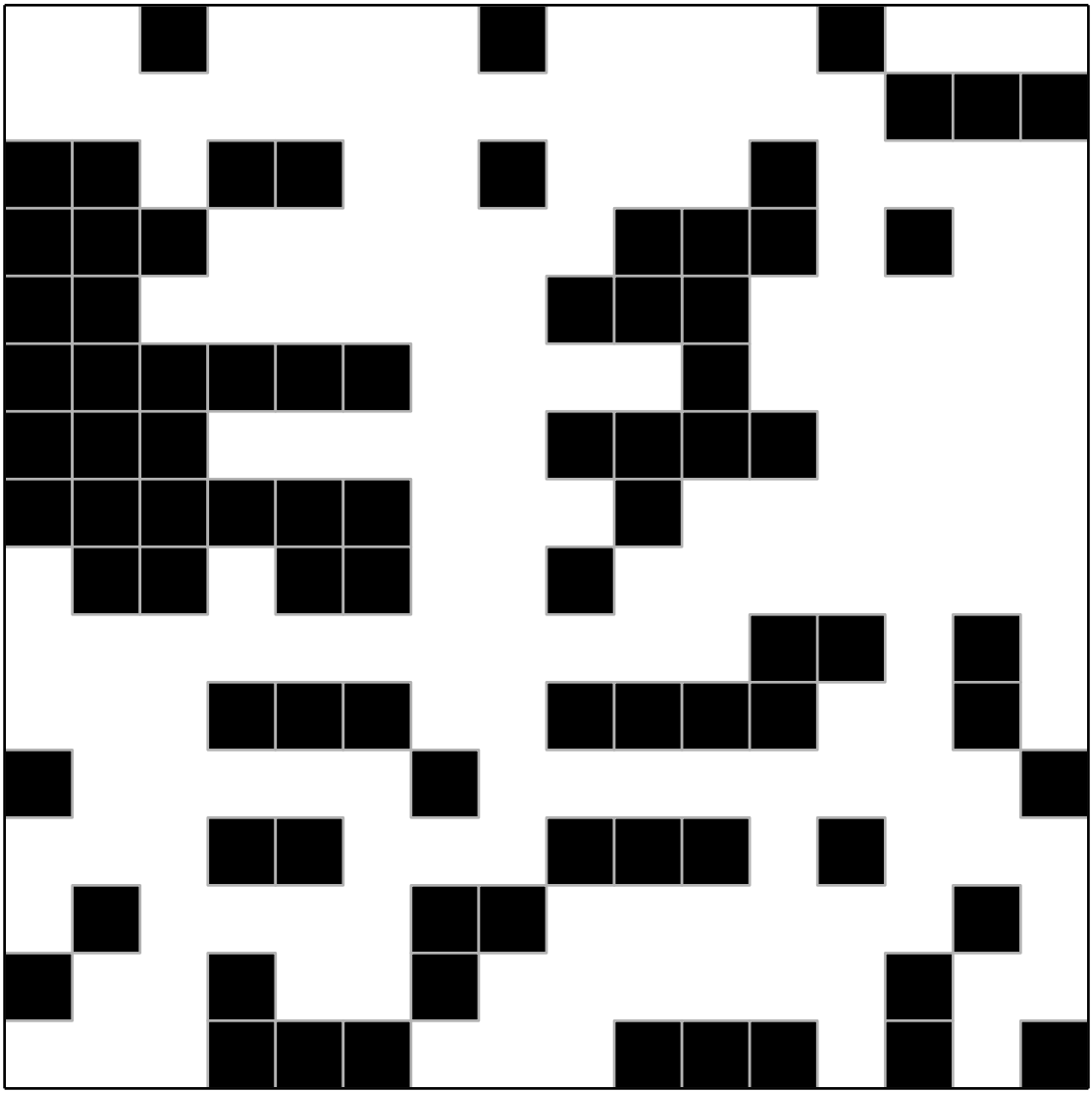


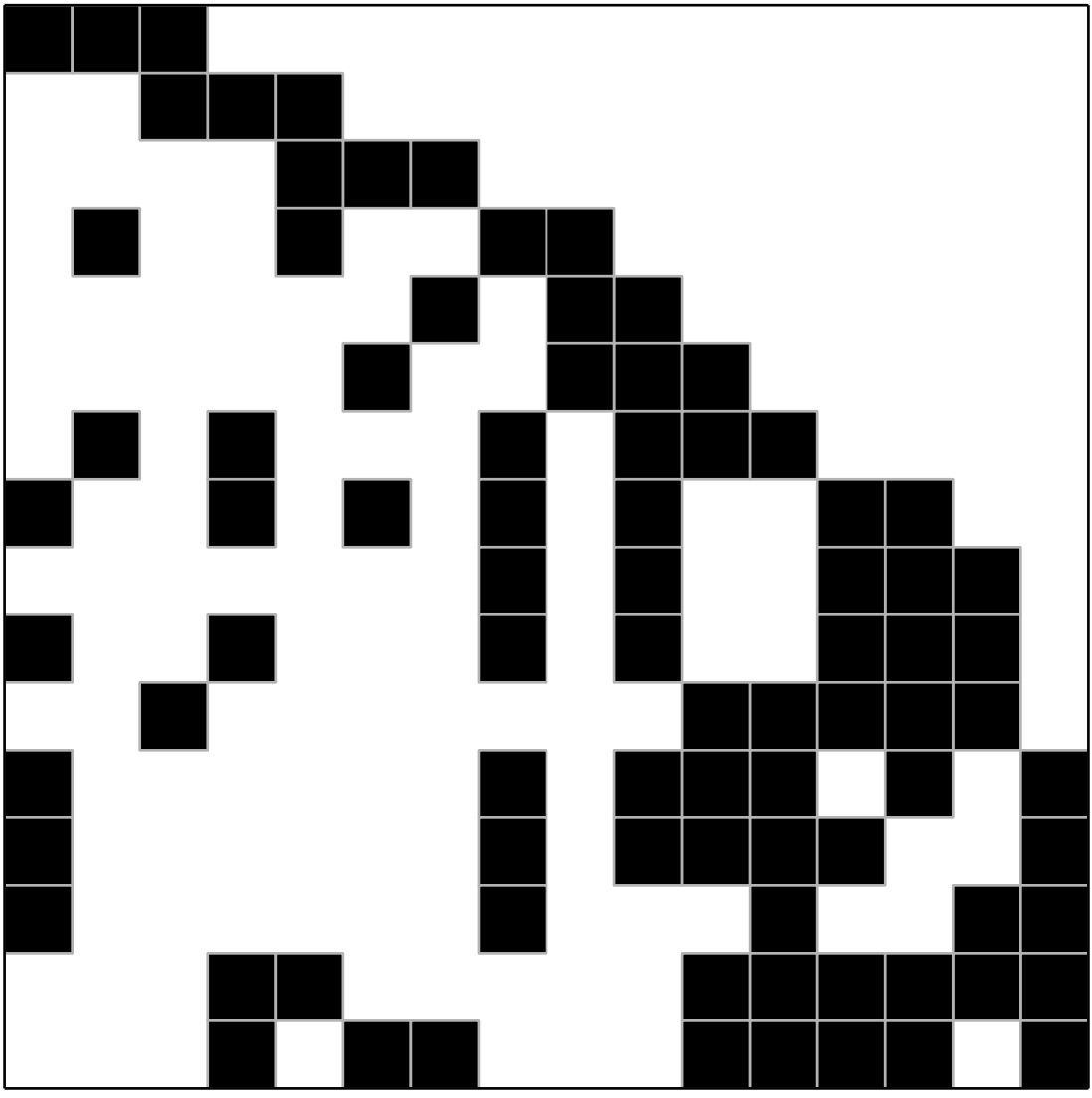
lib3_nauheim-02 16x16 (86) con: 8, var: 8



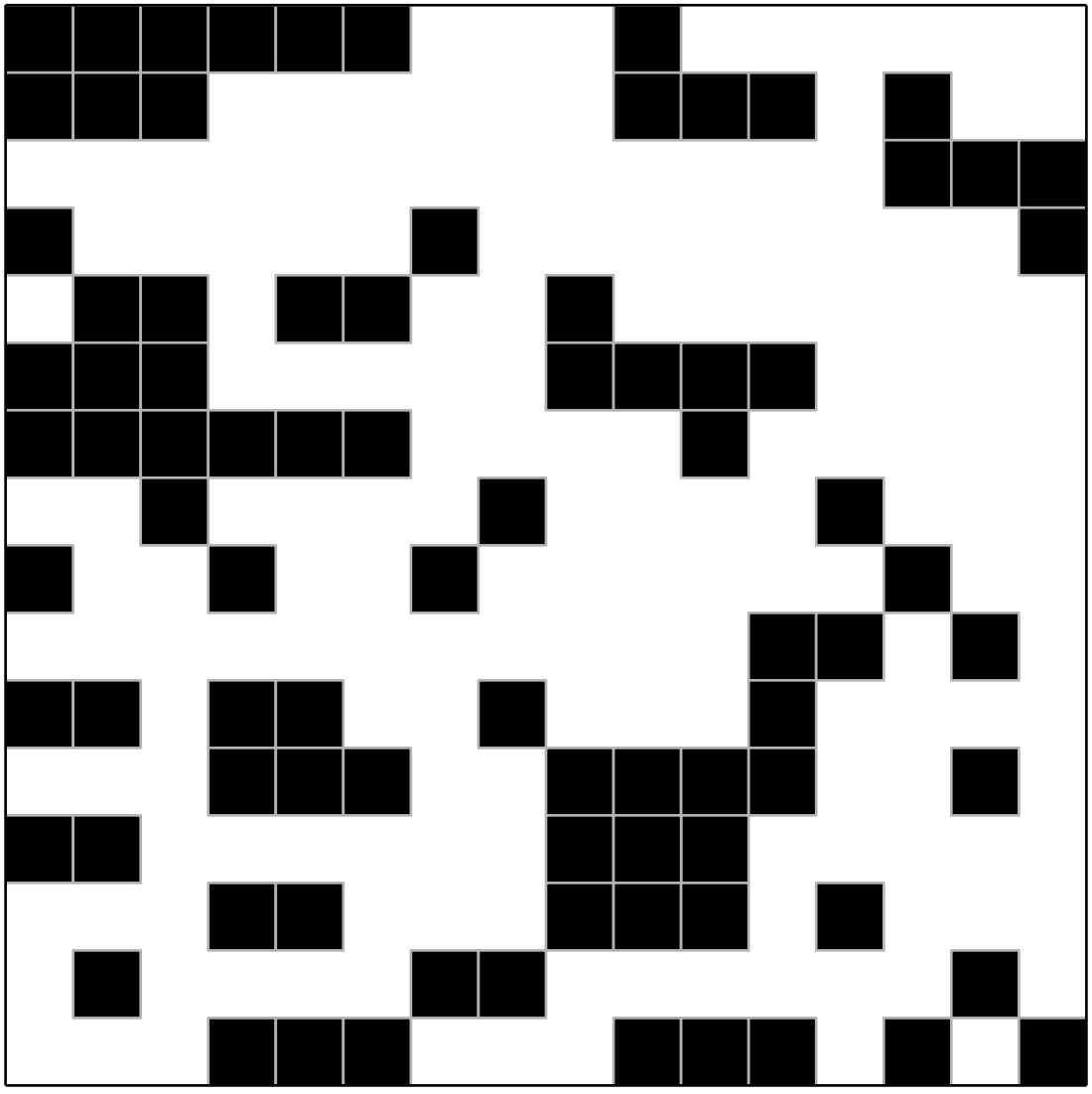

lib3_nauheim-02, cost: 6, diff: 6, explored: 40, time: 0.01s

lib3_nauheim-03 16x16 (86) con: 8, var: 8




lib3_nauheim-03, cost: 6, diff: 6, explored: 39, time: 0.01s

lib3_nauheim-04 16x16 (86) con: 8, var: 8



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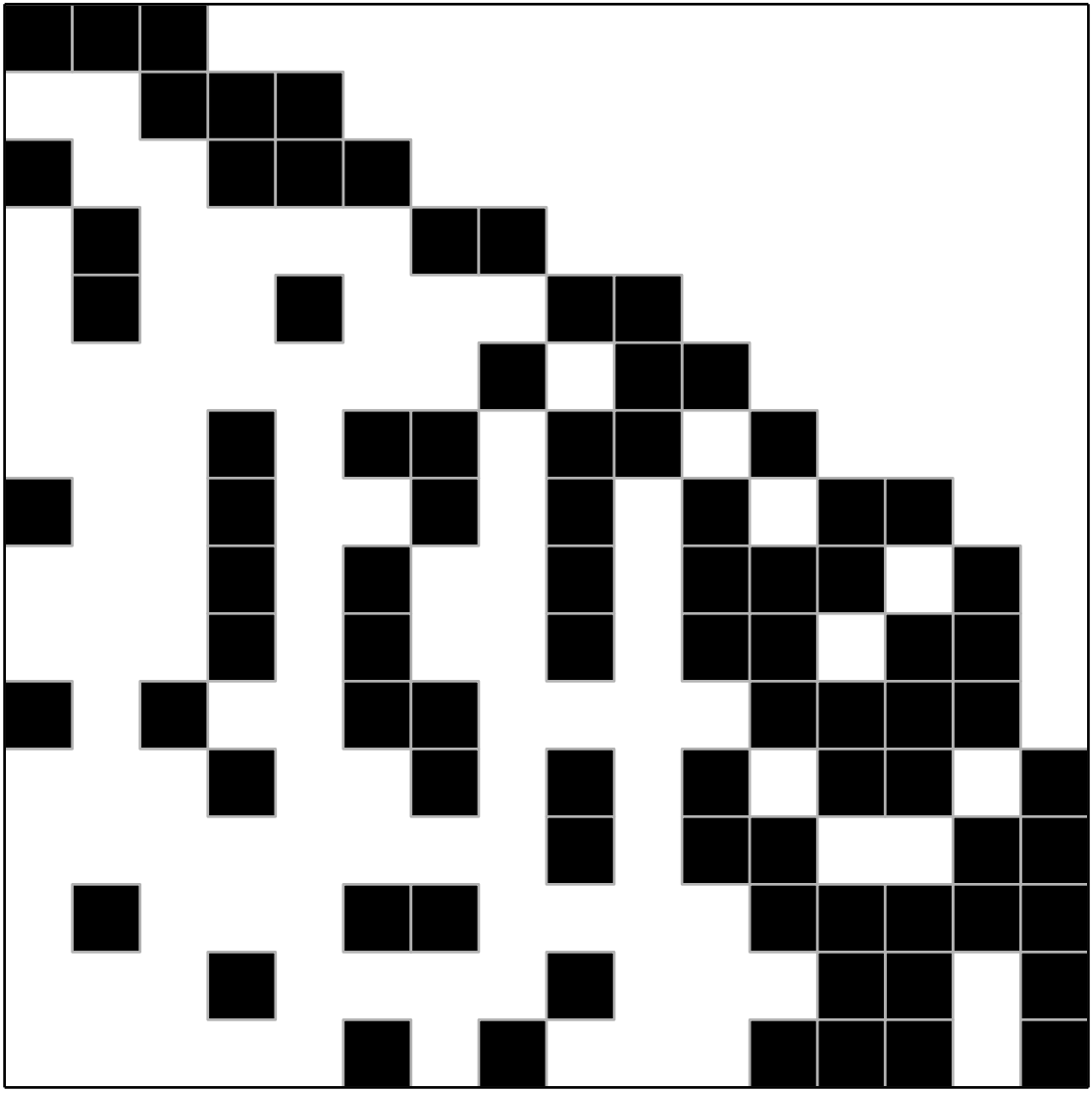
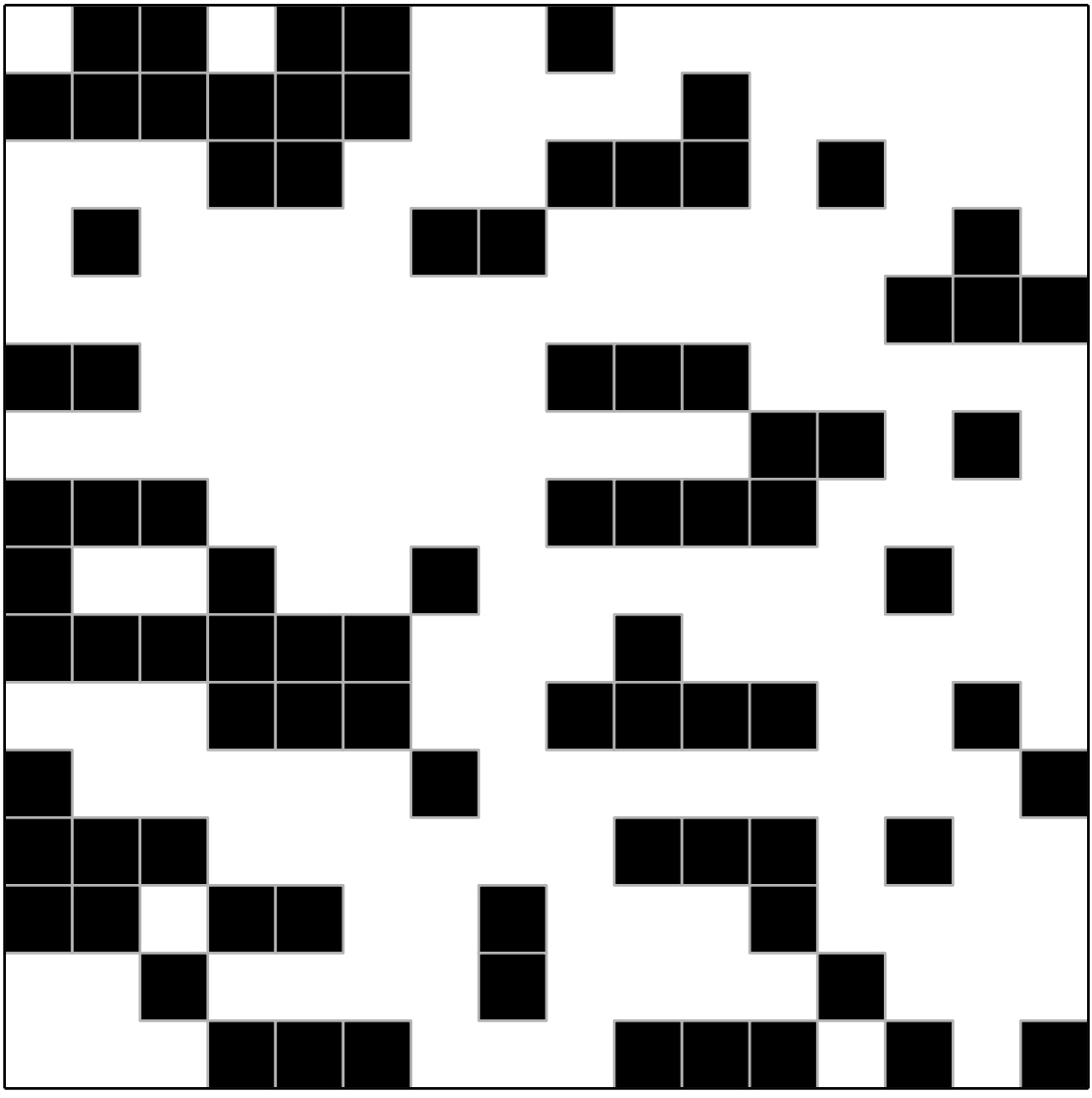
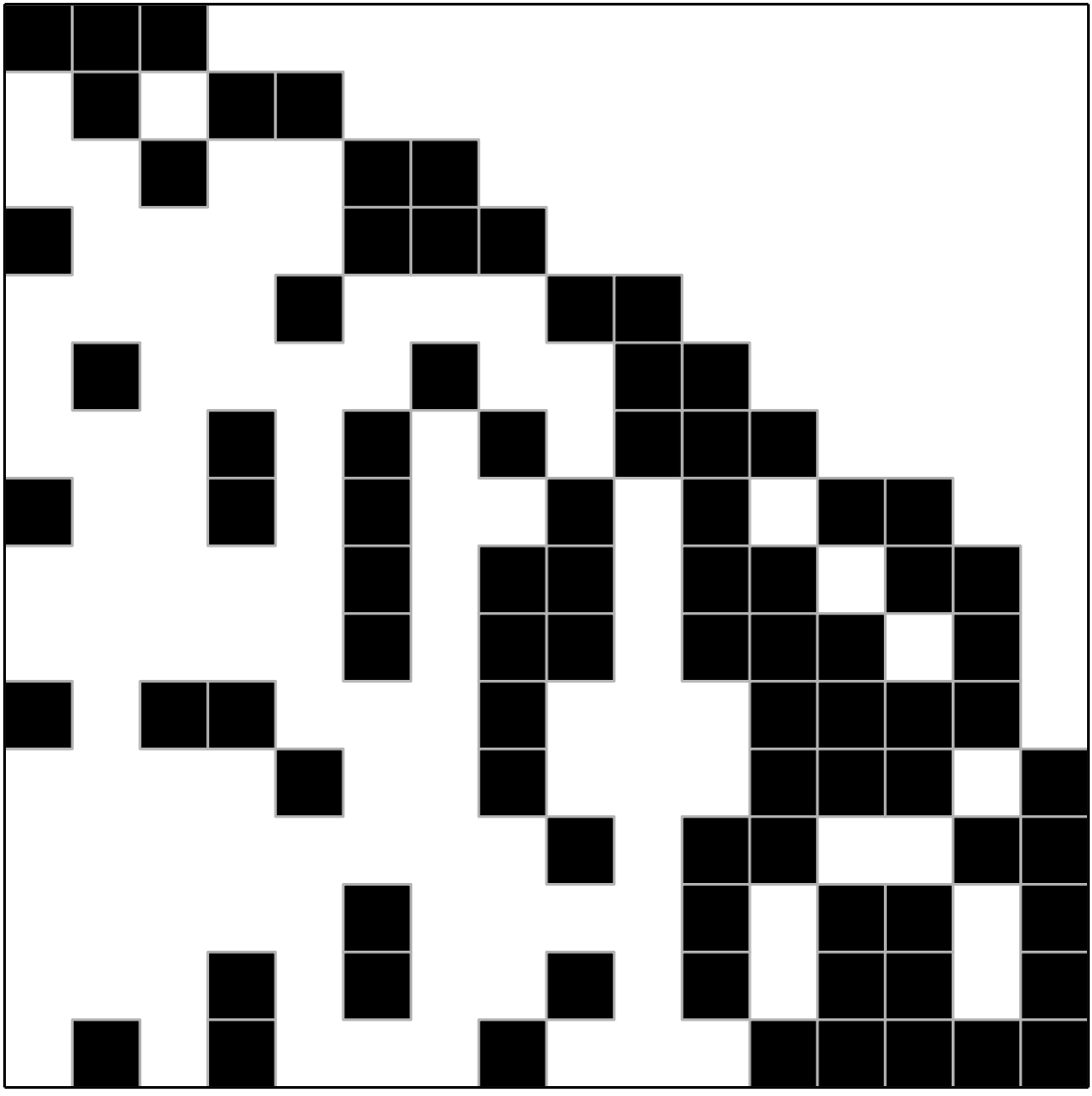


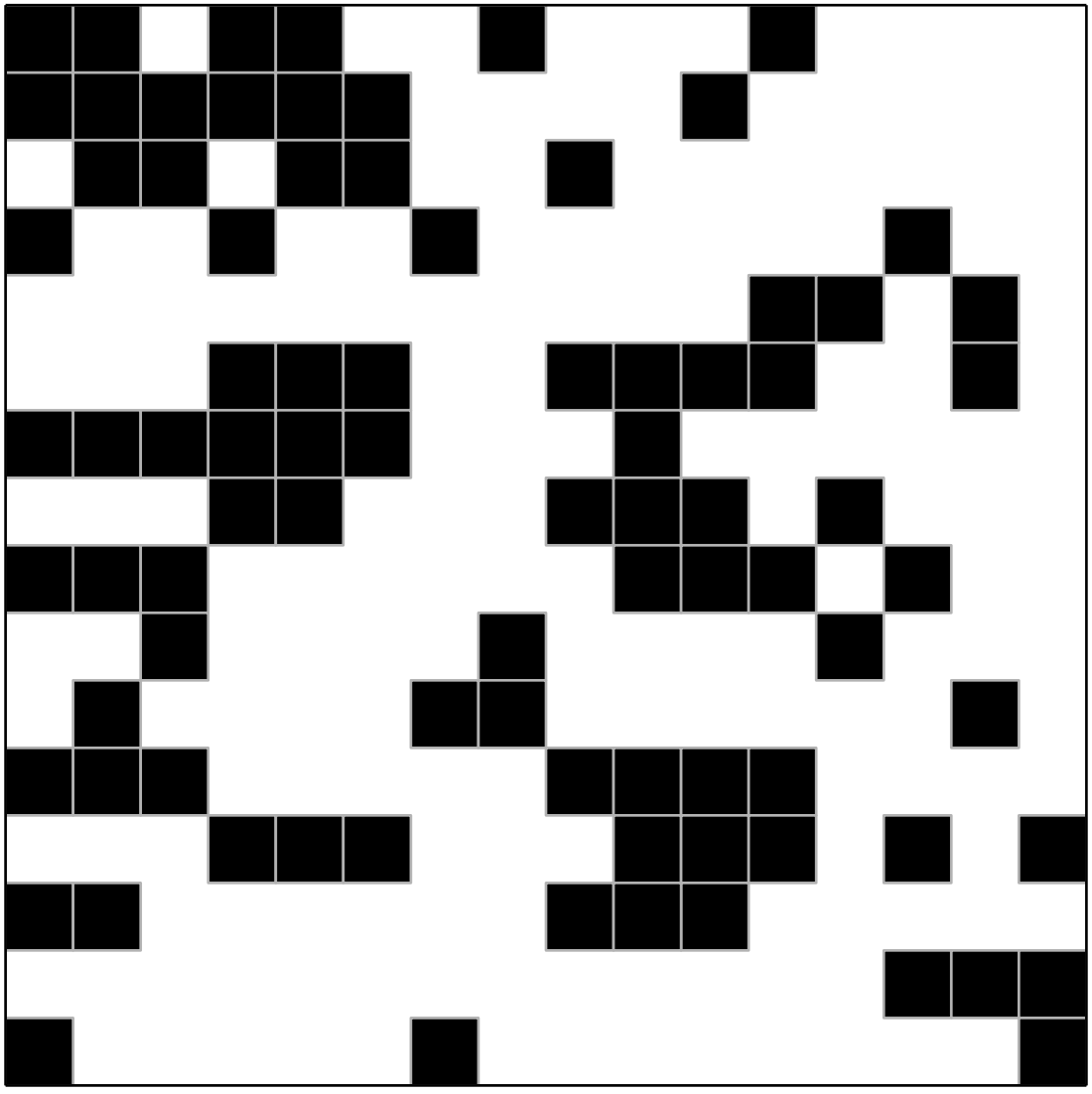
lib3_nauheim-05 16x16 (86) con: 8, var: 8

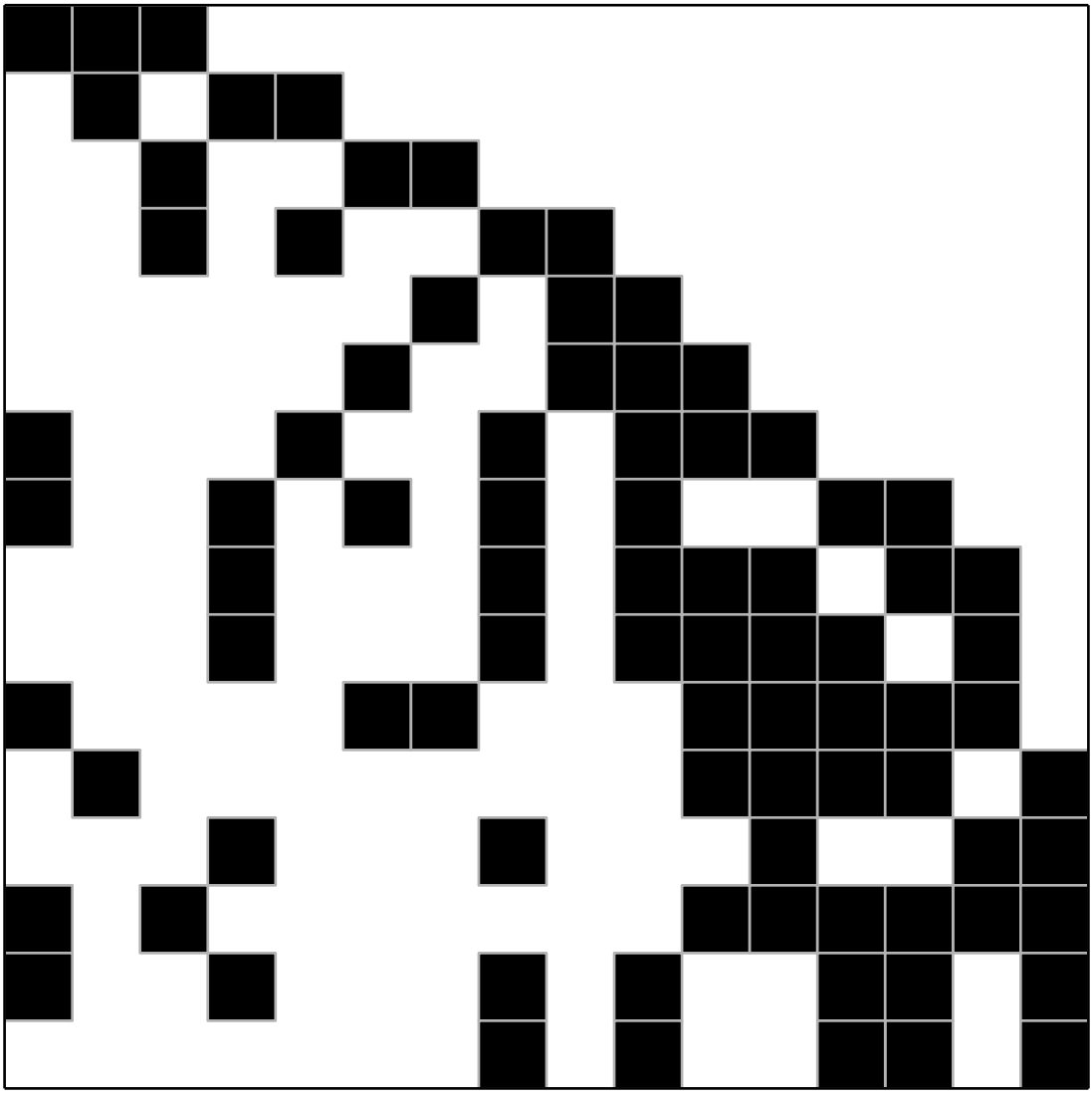


lib3_nauheim-05, cost: 6, diff: 6, explored: 41, time: 0.01s



lib3_nauheim-06 16x16 (86) con: 8, var: 8

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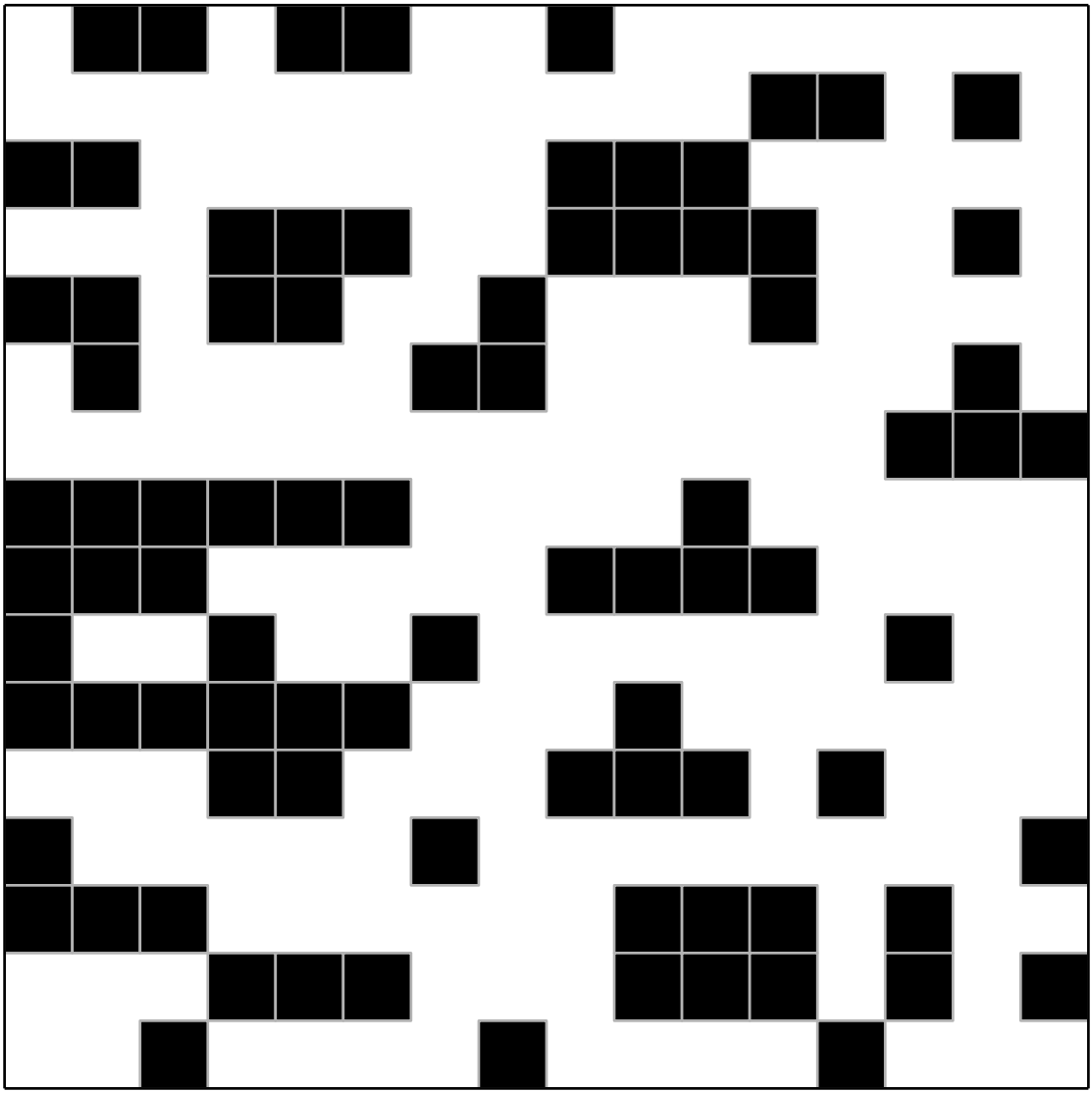
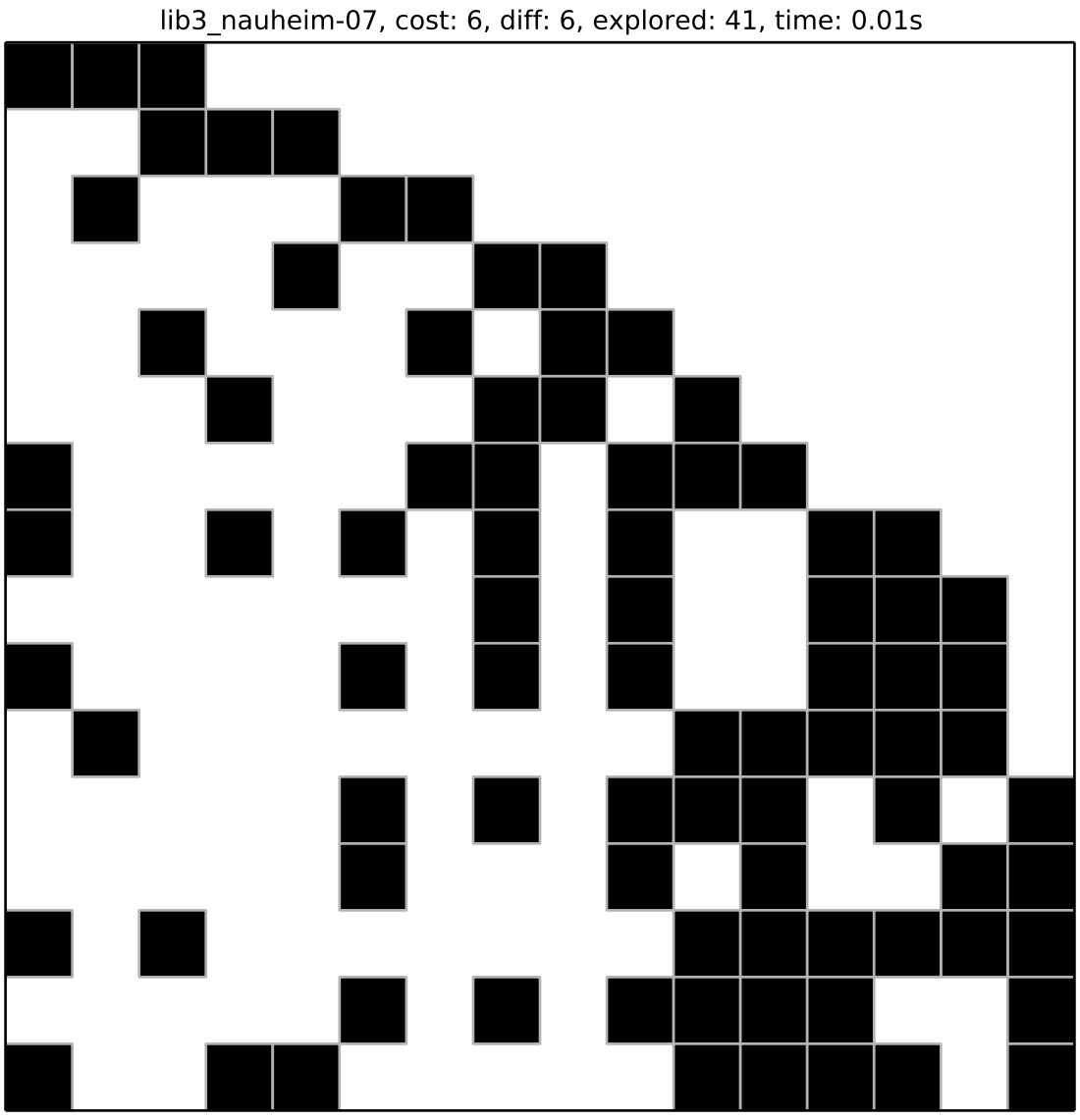
lib3_nauheim-07 16x16 (86) con: 8, var: 8

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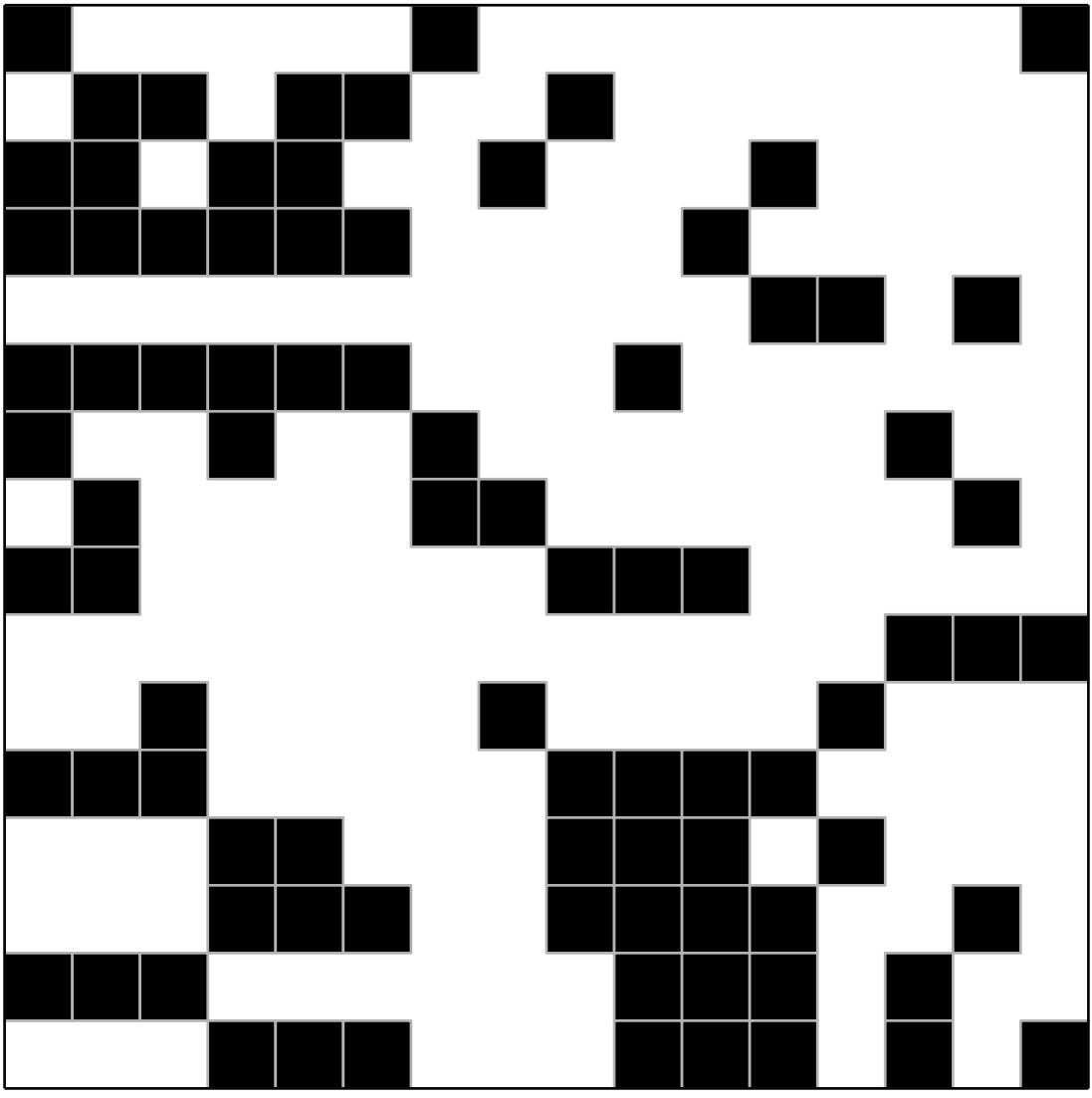
lib3_nauheim-08 16x16 (86) con: 8, var: 8



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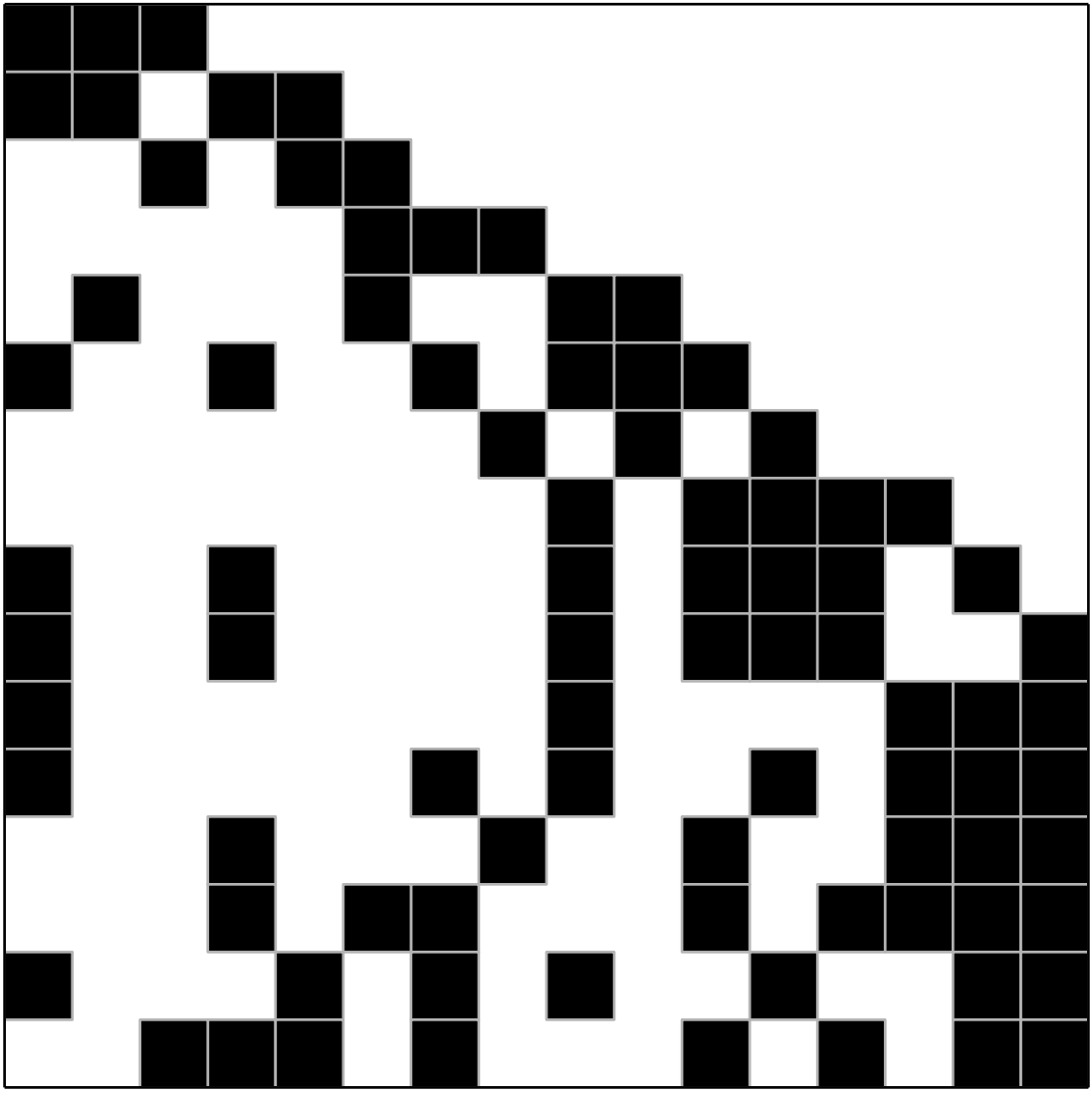
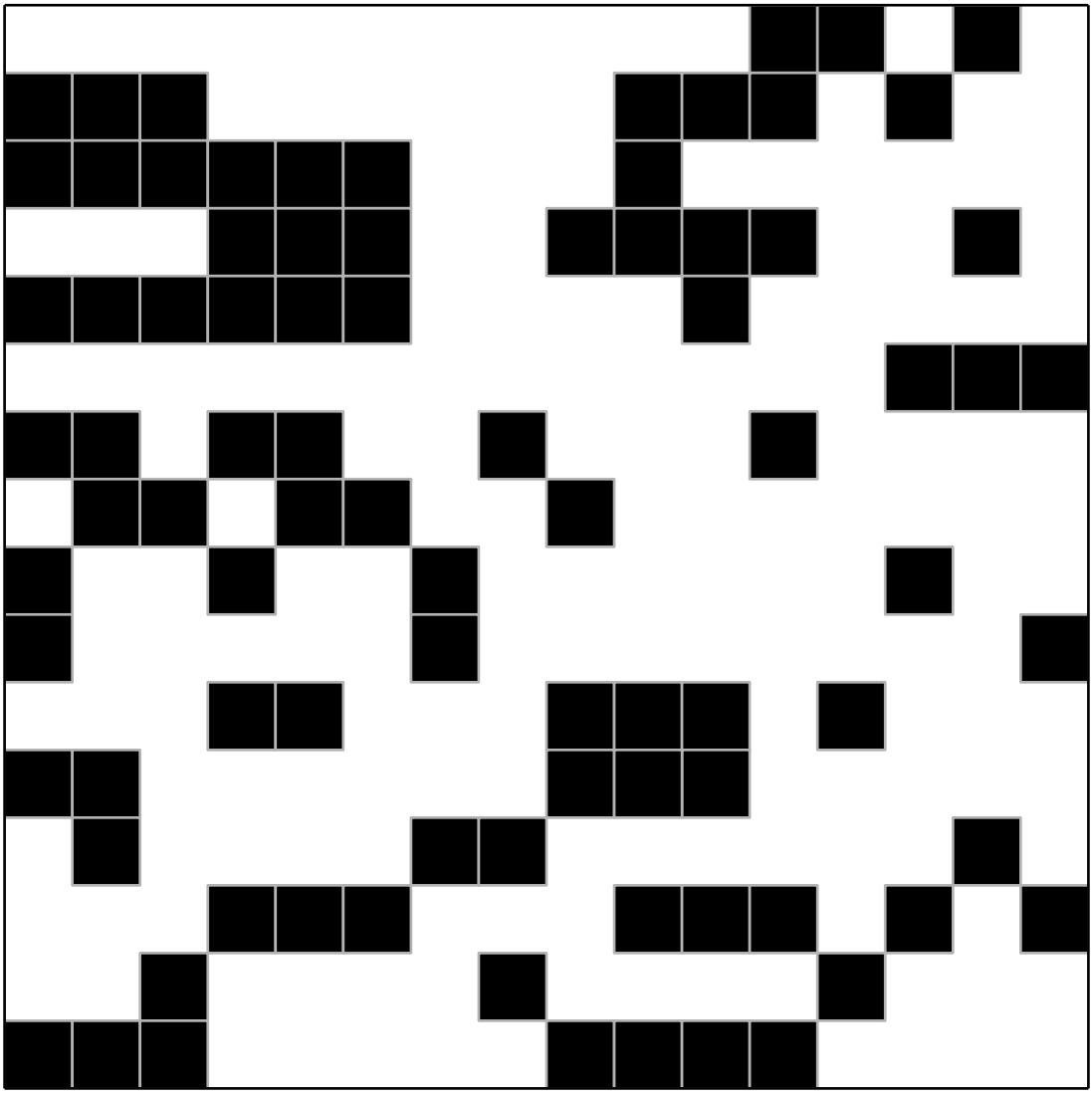
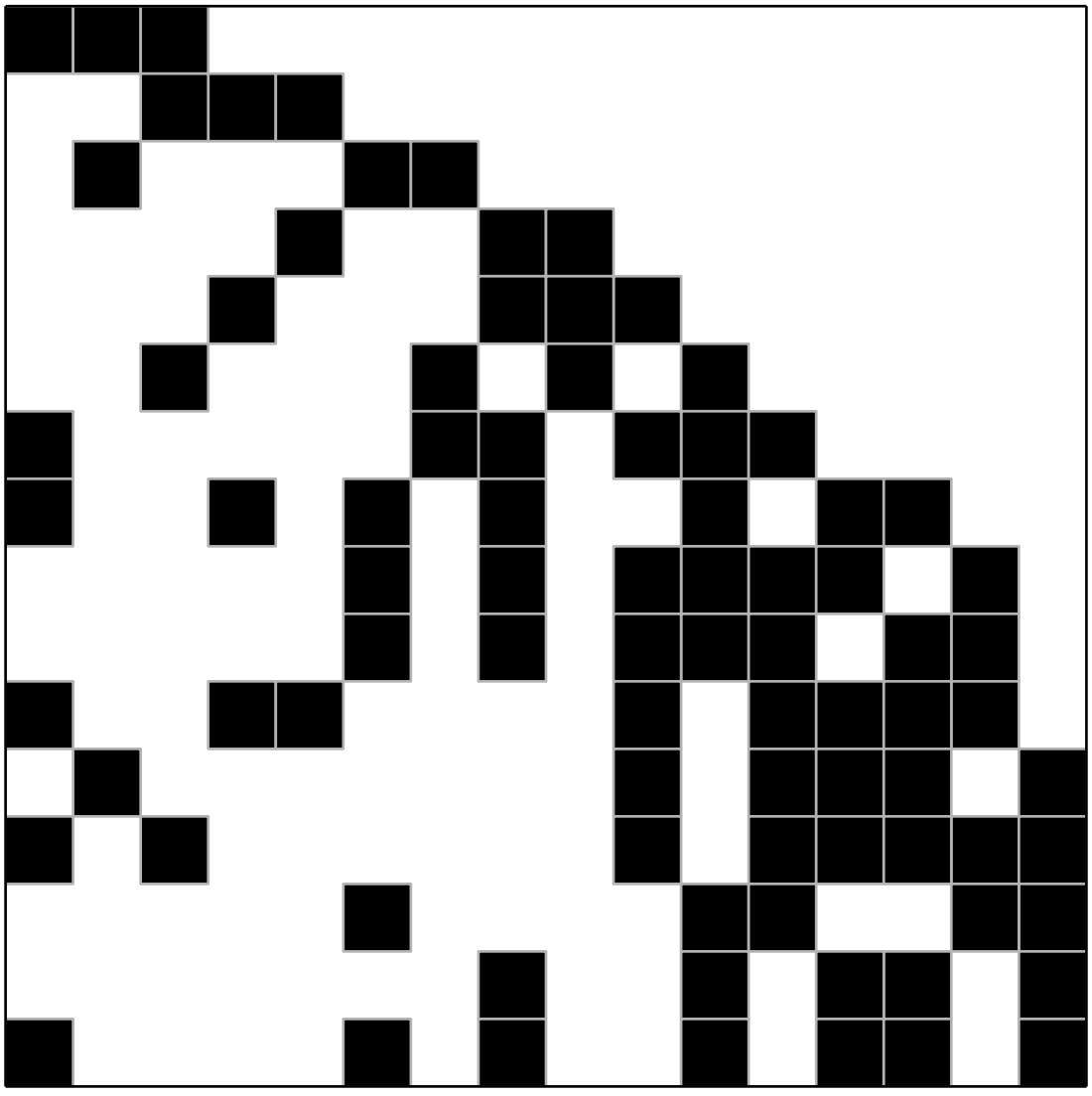


lib3_nauheim-09 16x16 (86) con: 8, var: 8

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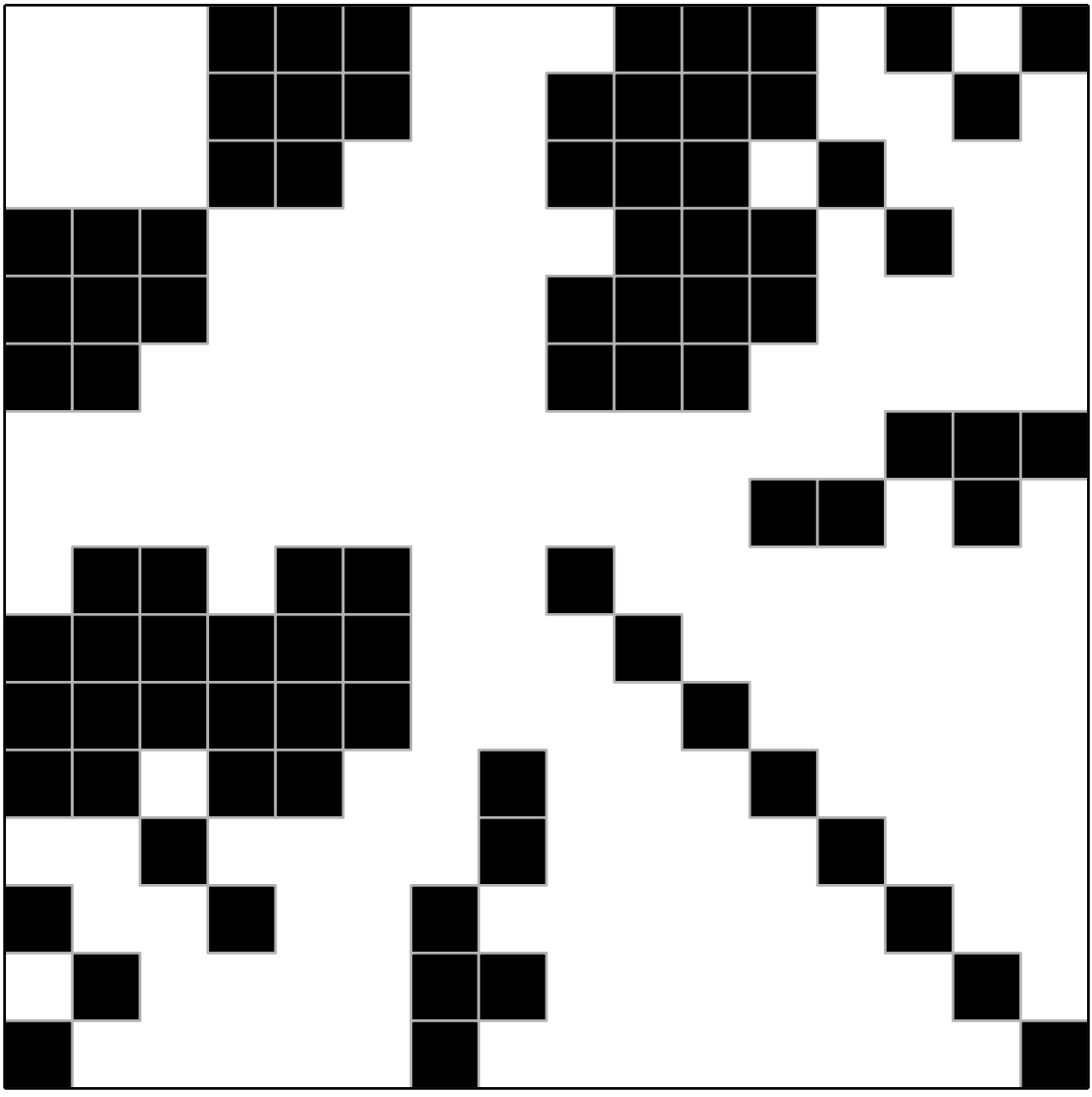
lib3_nauheim-IN 16x16 (86) con: 8, var: 8



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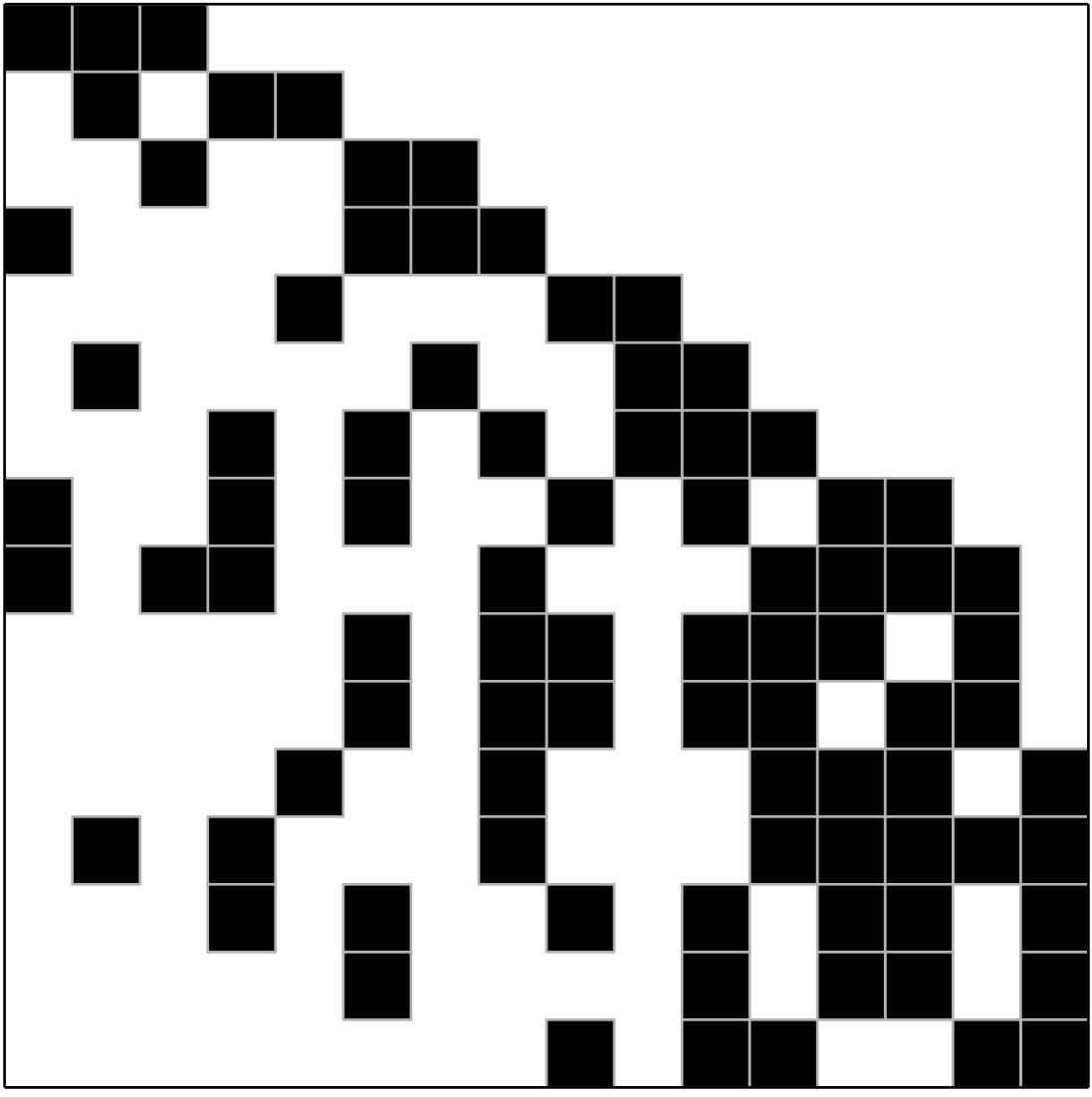
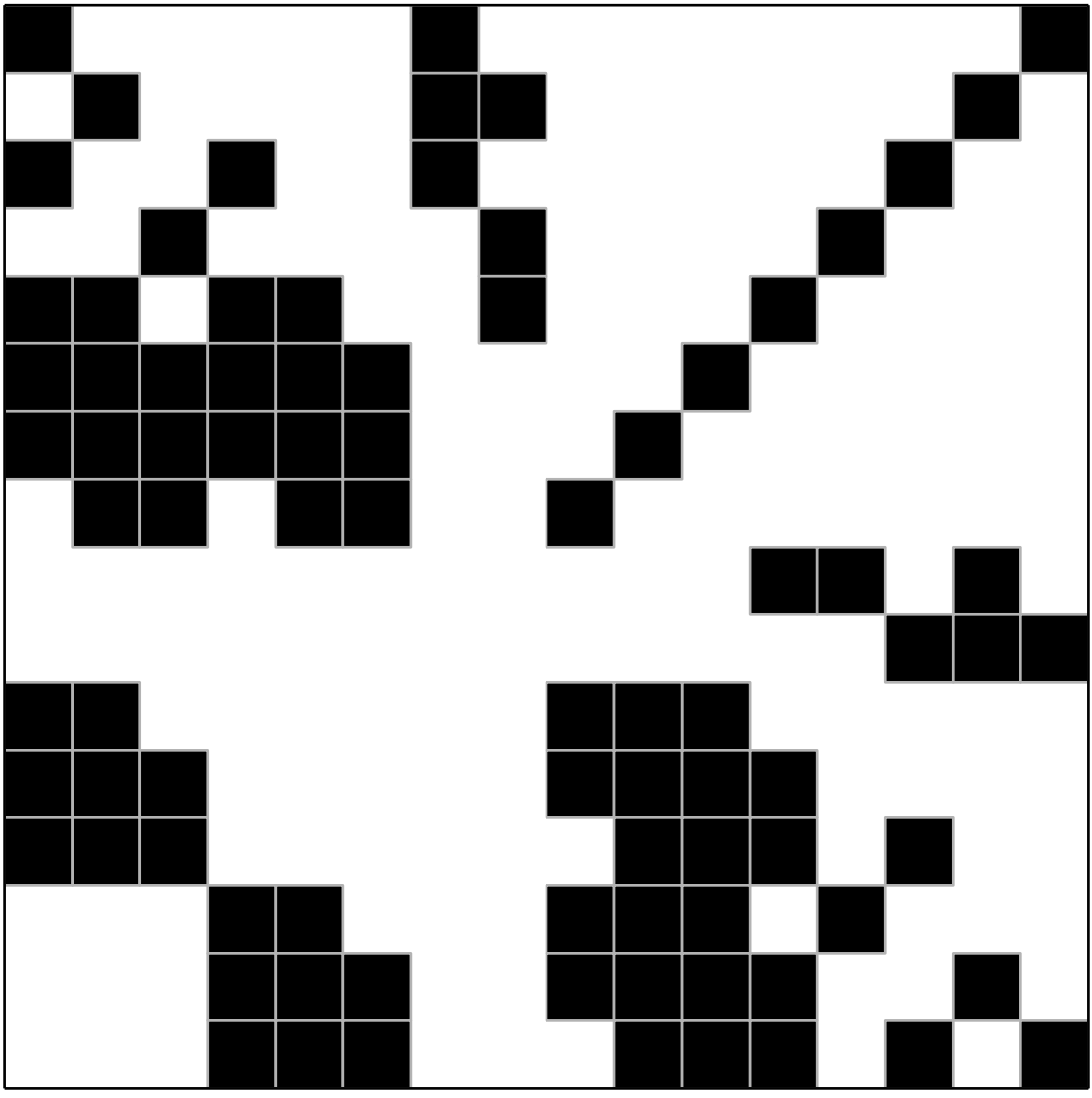


lib3_nauheim-RE 16x16 (86) con: 8, var: 8



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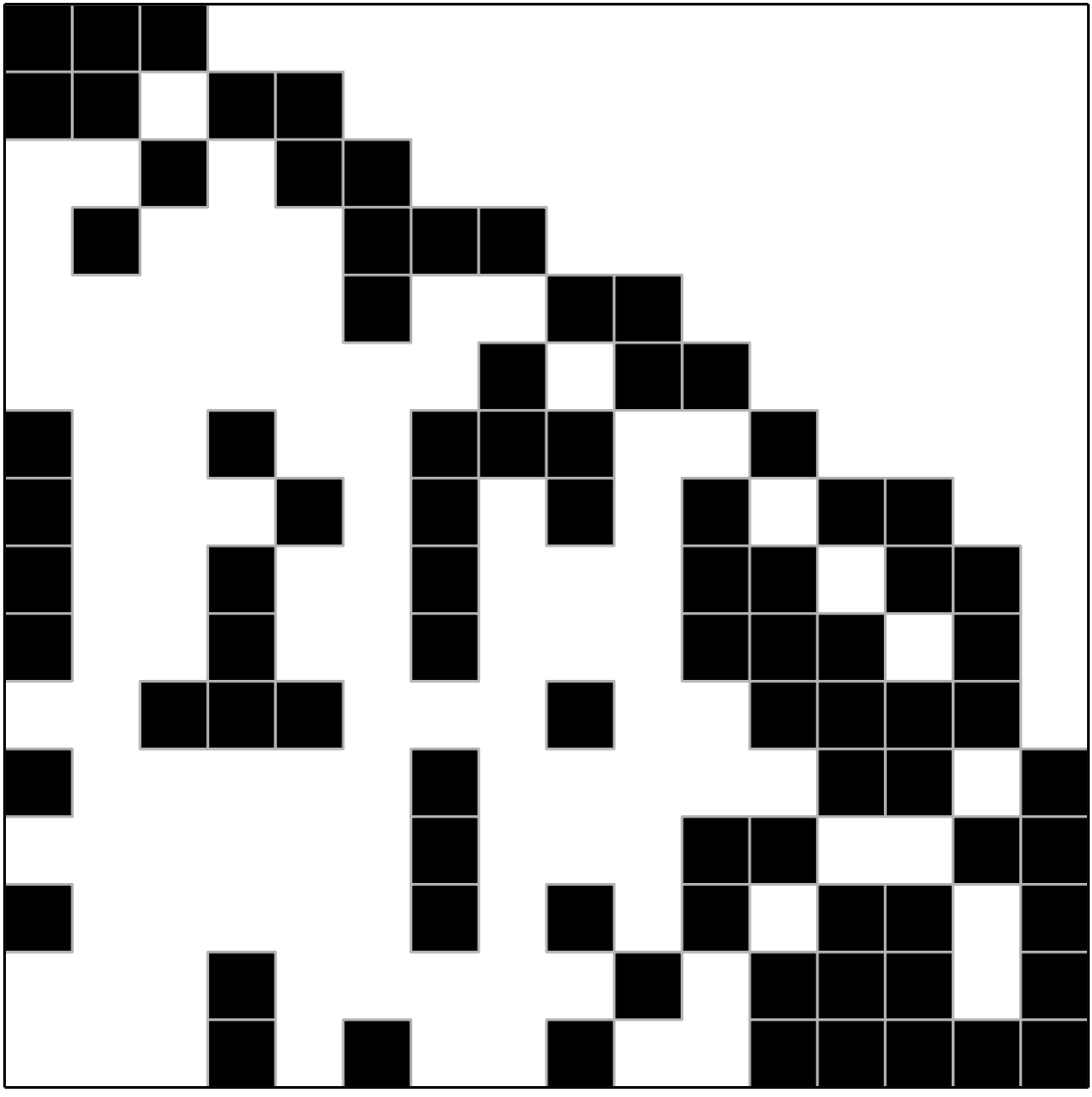
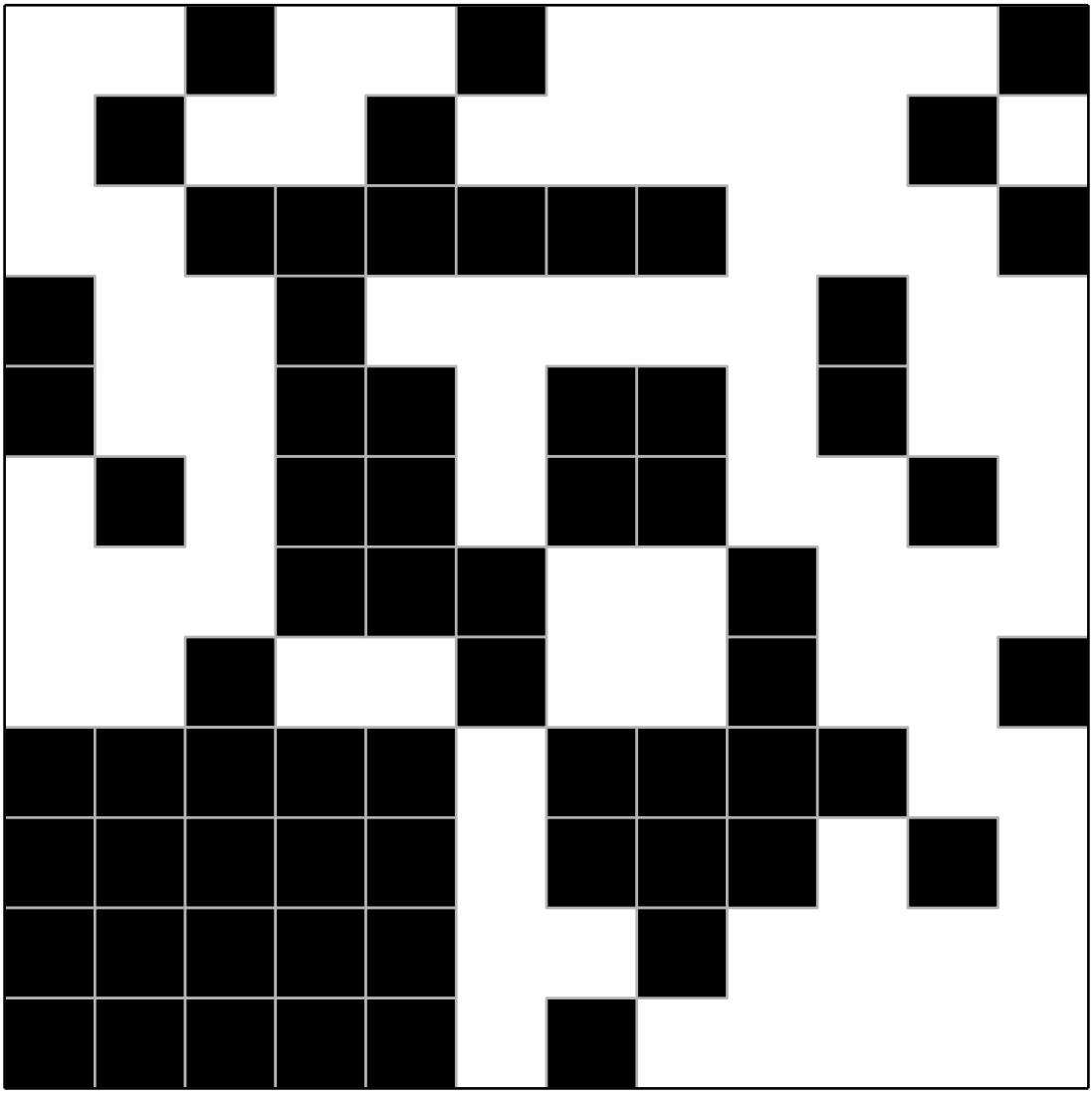
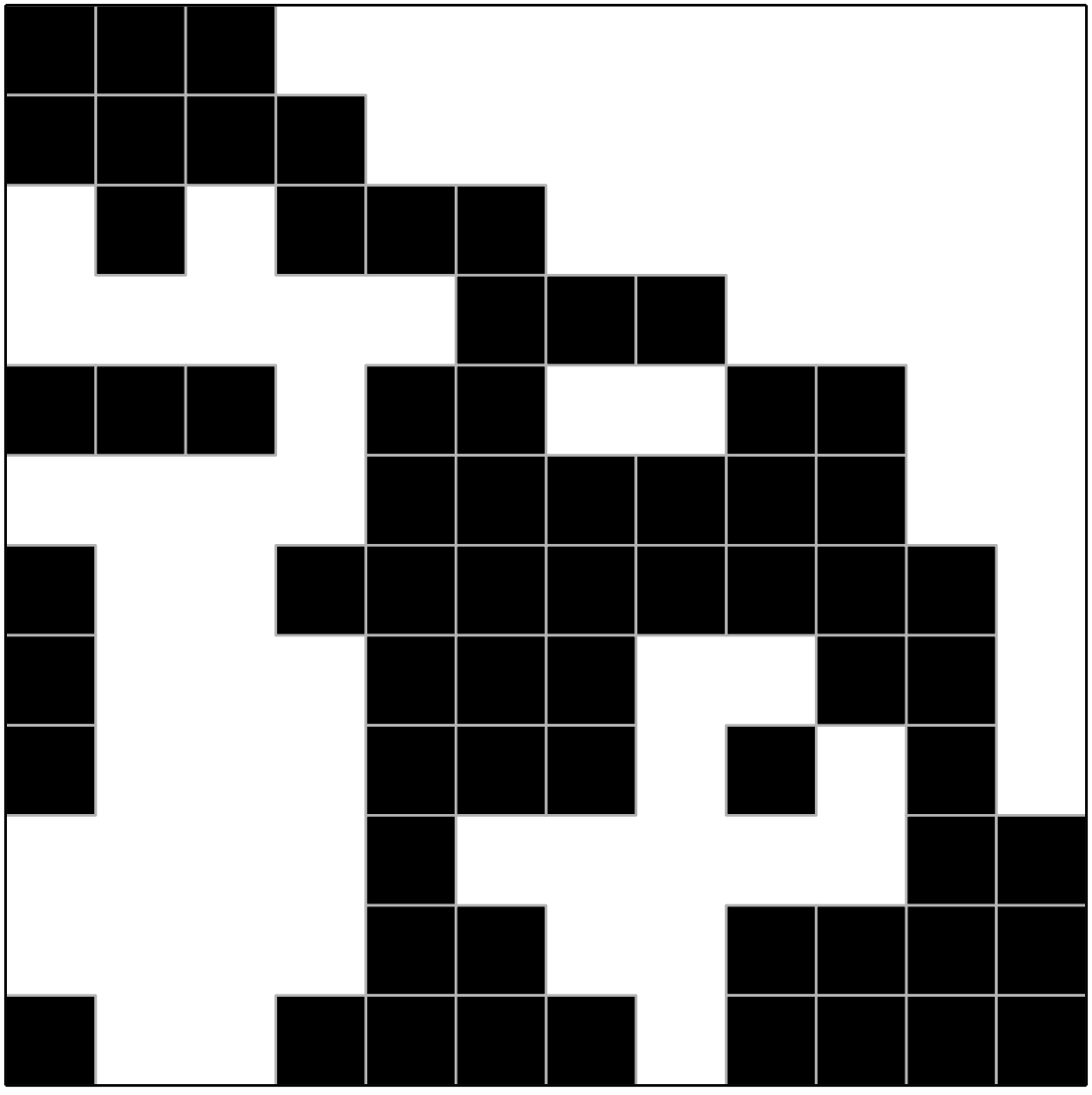
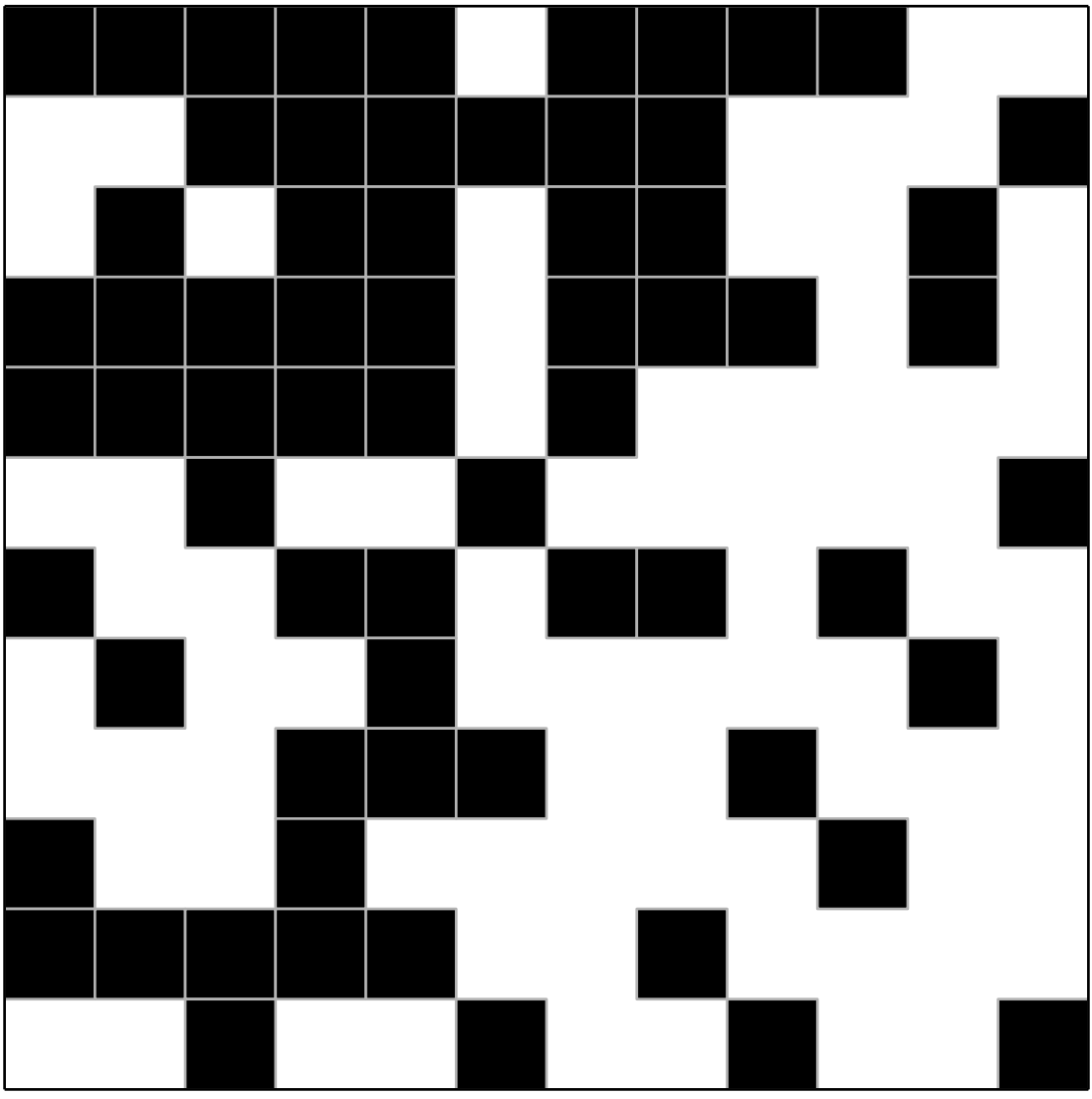


lib3_nbody5.1-00 12x12 (66) con: 6, var: 6

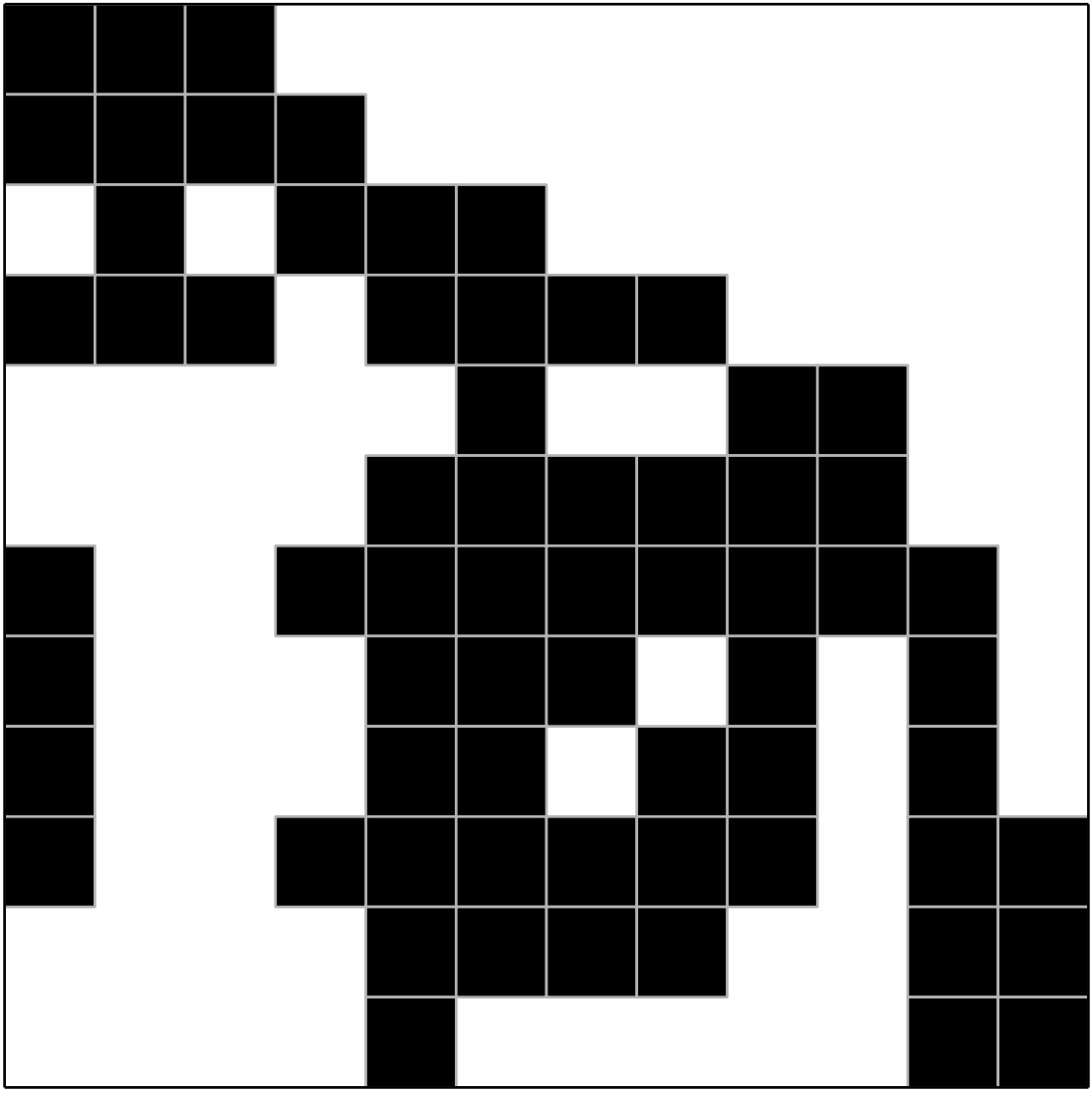


lib3_nbody5.1-00, cost: 5, diff: 5, explored: 14, time: 0.00s

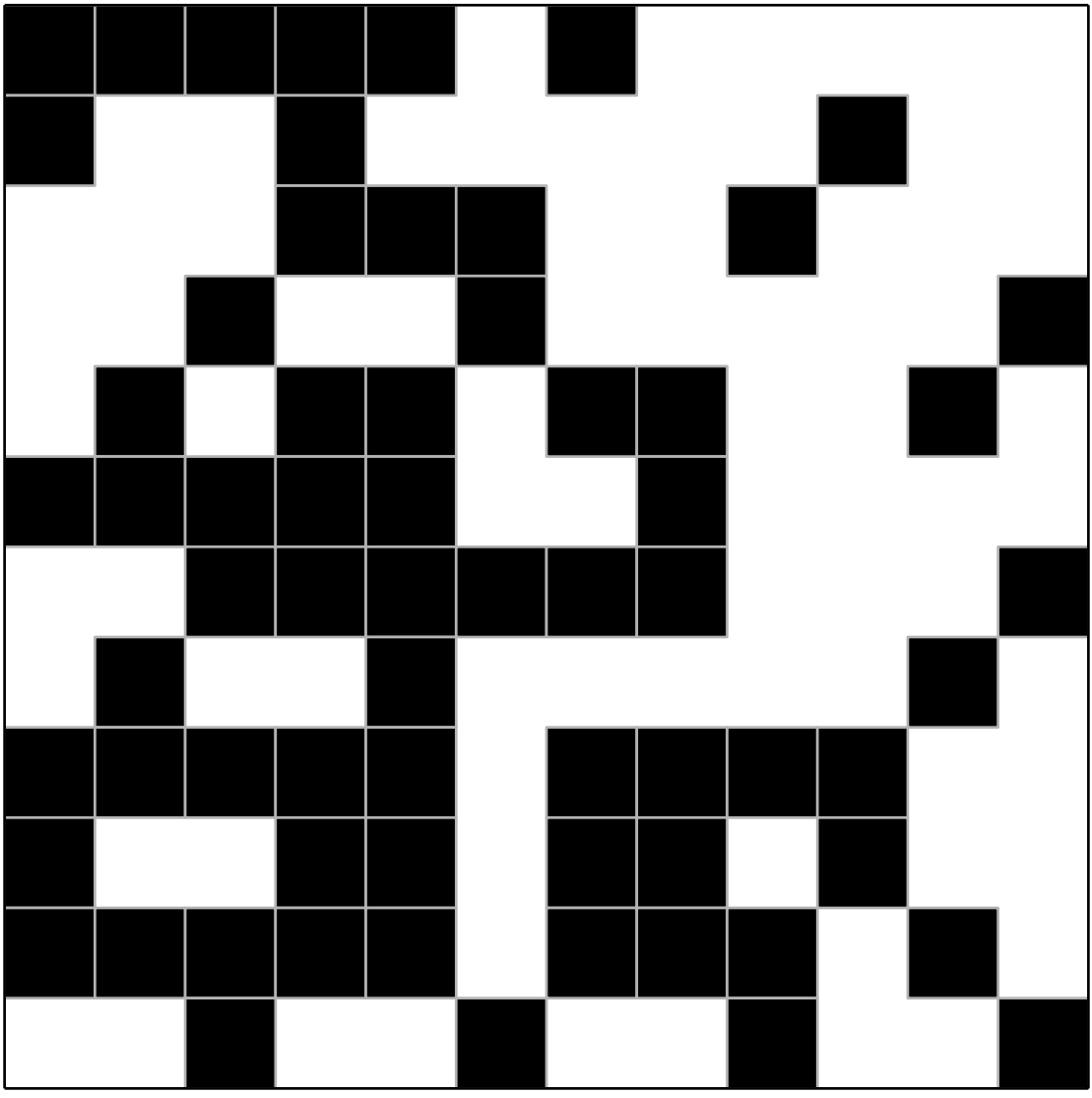



lib3_nbody5.1-01 12x12 (66) con: 6, var: 6

lib3_nbody5.1-01, cost: 5, diff: 5, explored: 14, time: 0.00s



lib3_nbody5.1-02 12x12 (66) con: 6, var: 6



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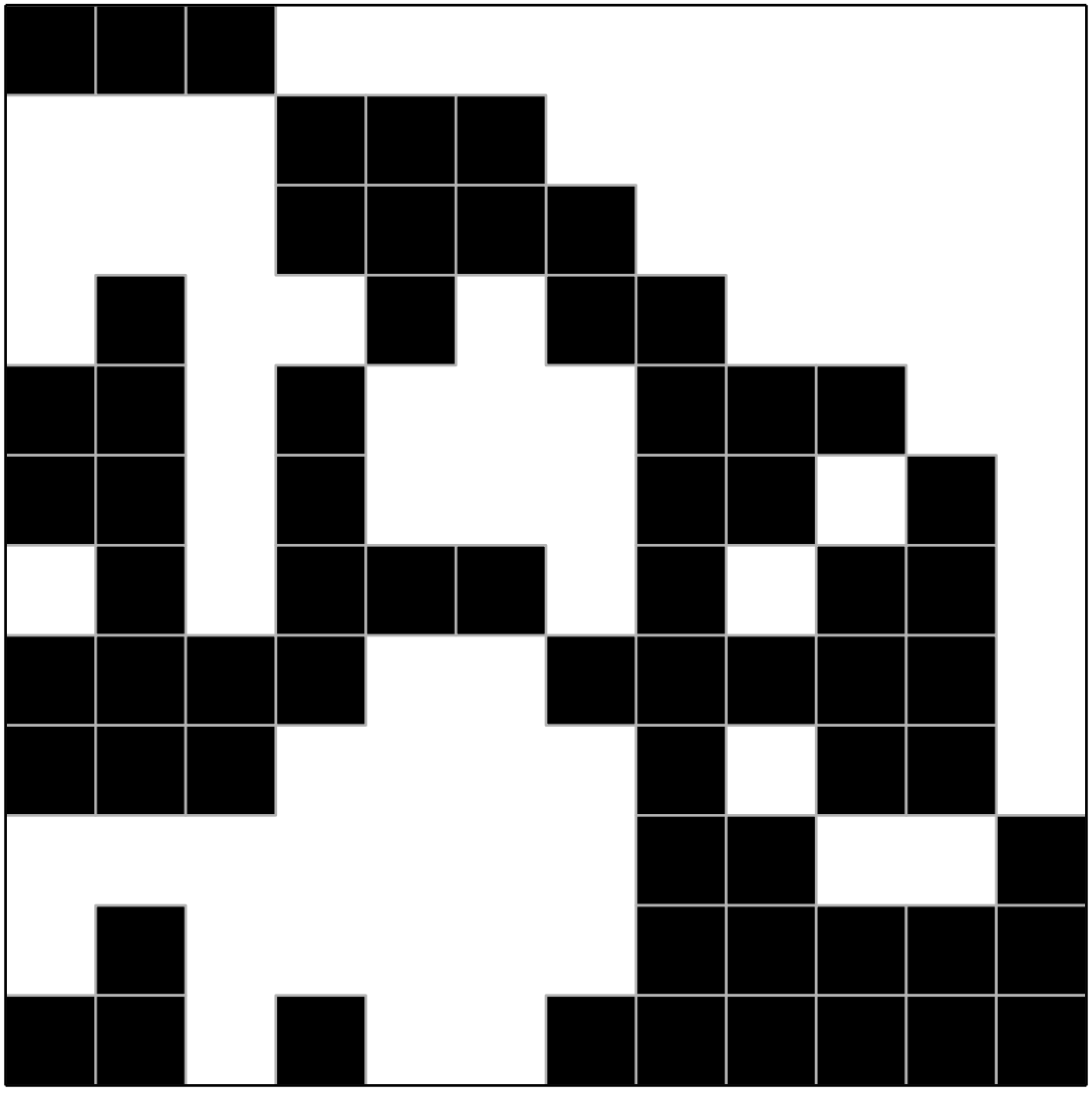
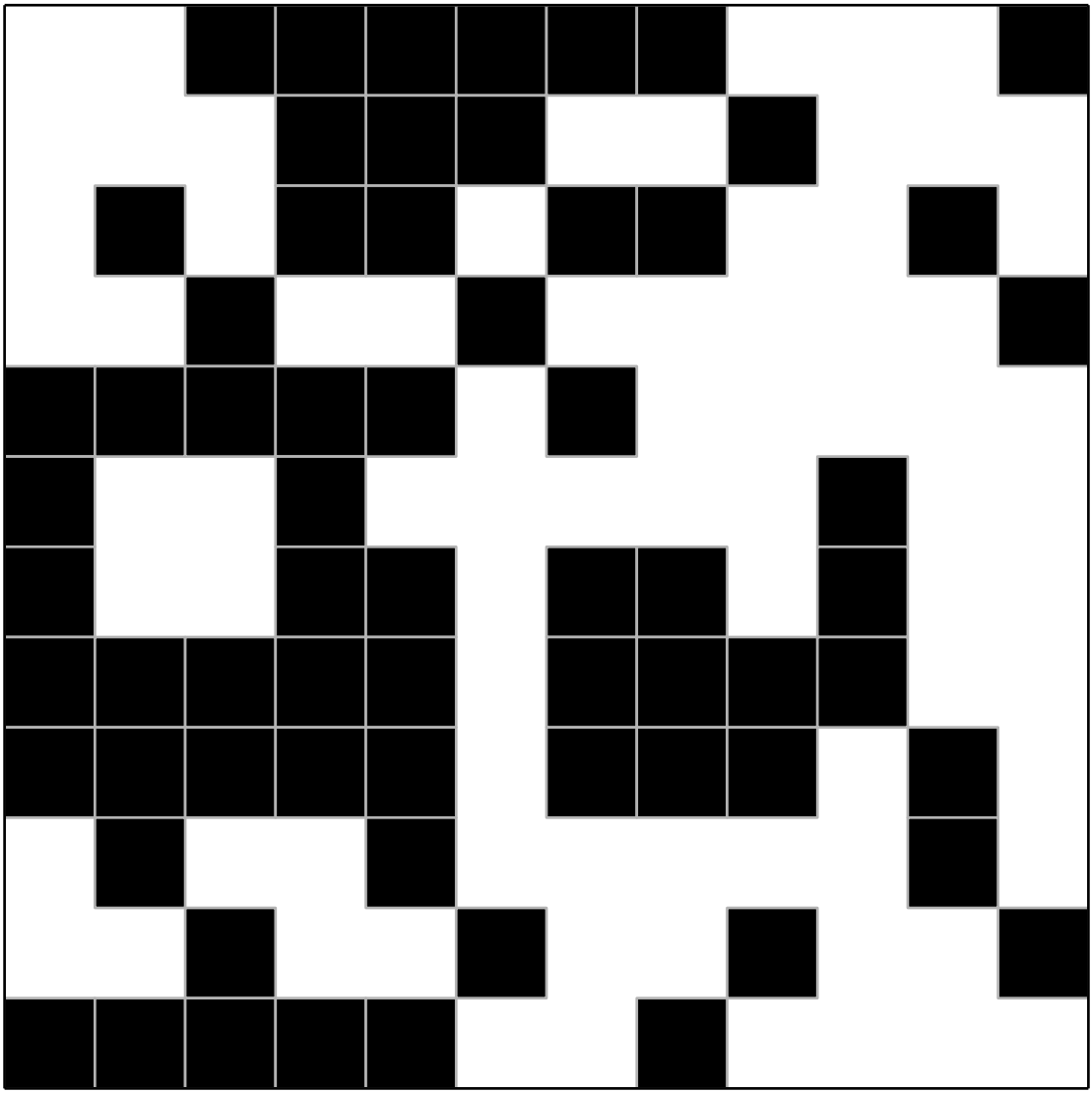
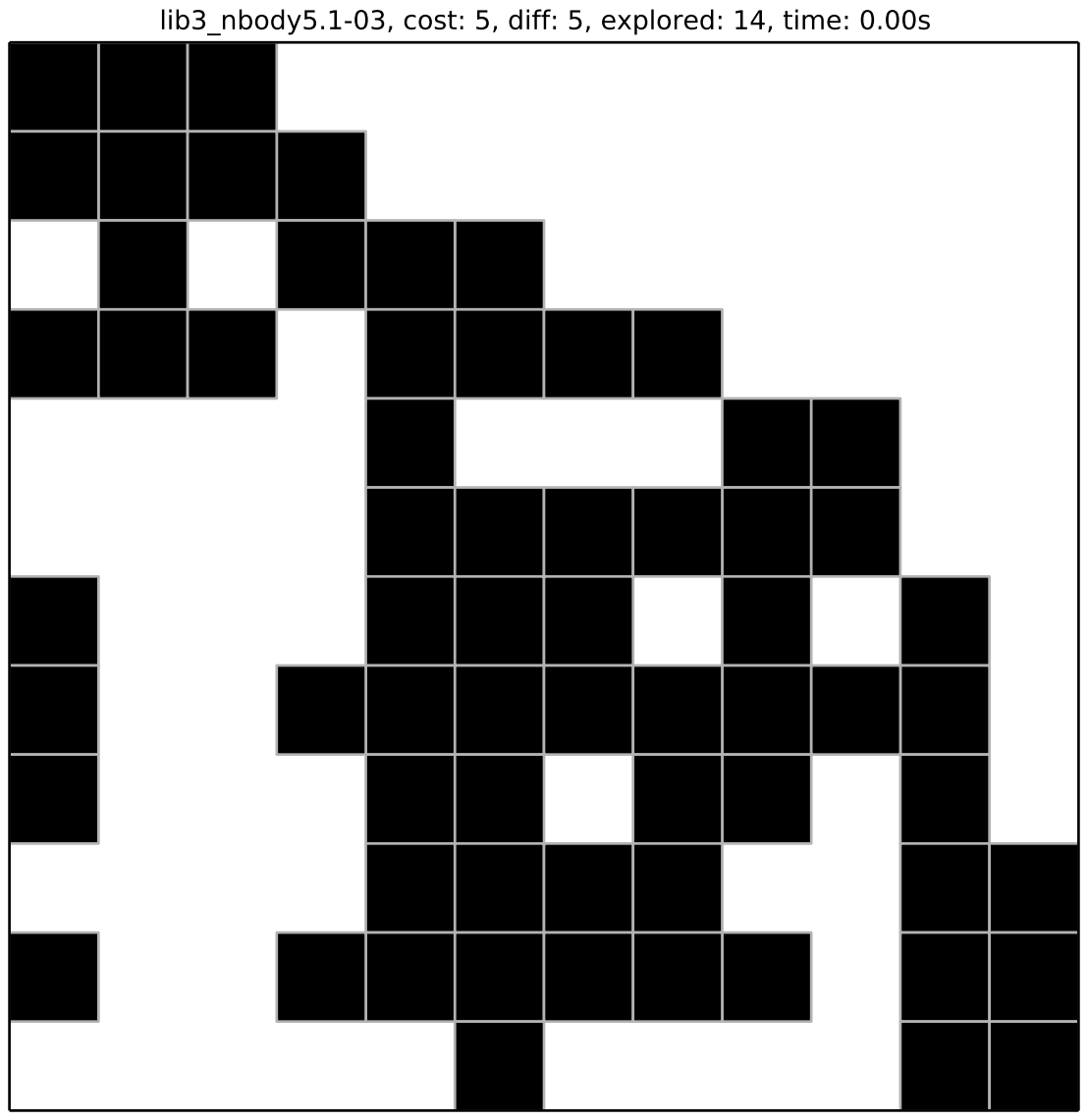


lib3_nbody5.1-03 12x12 (66) con: 6, var: 6

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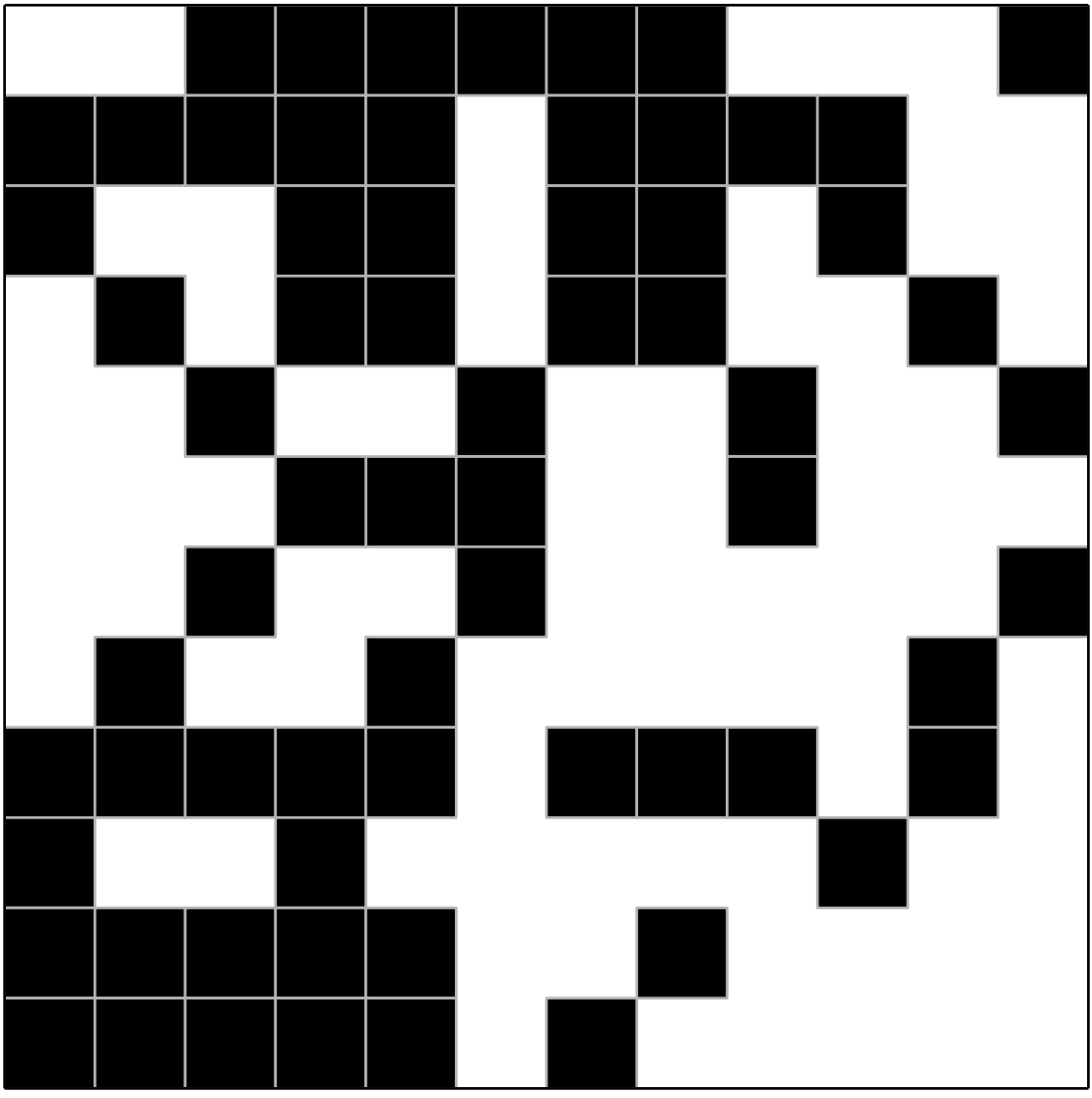
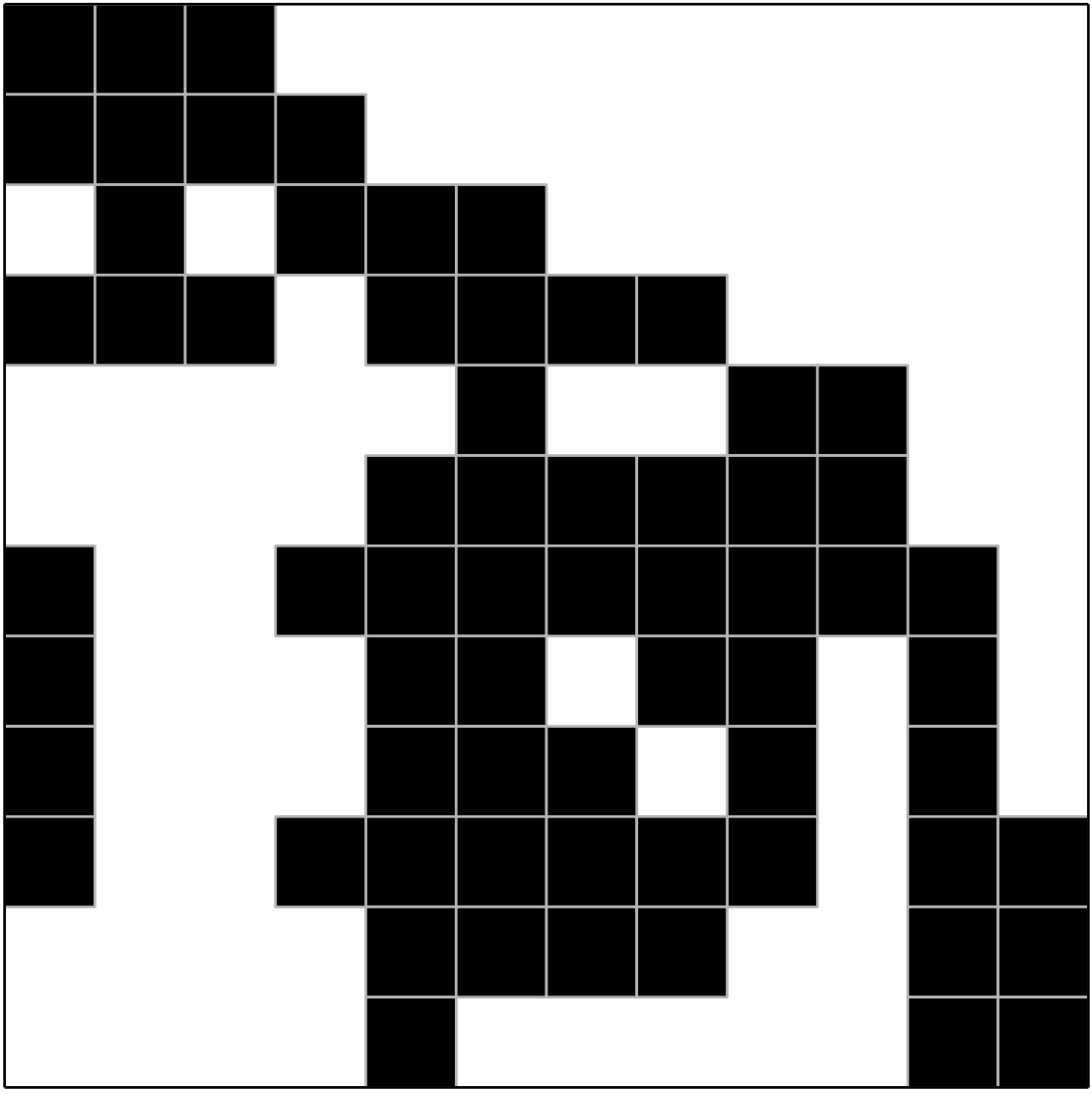
lib3_nbody5.1-04 12x12 (66) con: 6, var: 6



lib3_nbody5.1-04, cost: 5, diff: 5, explored: 14, time: 0.00s



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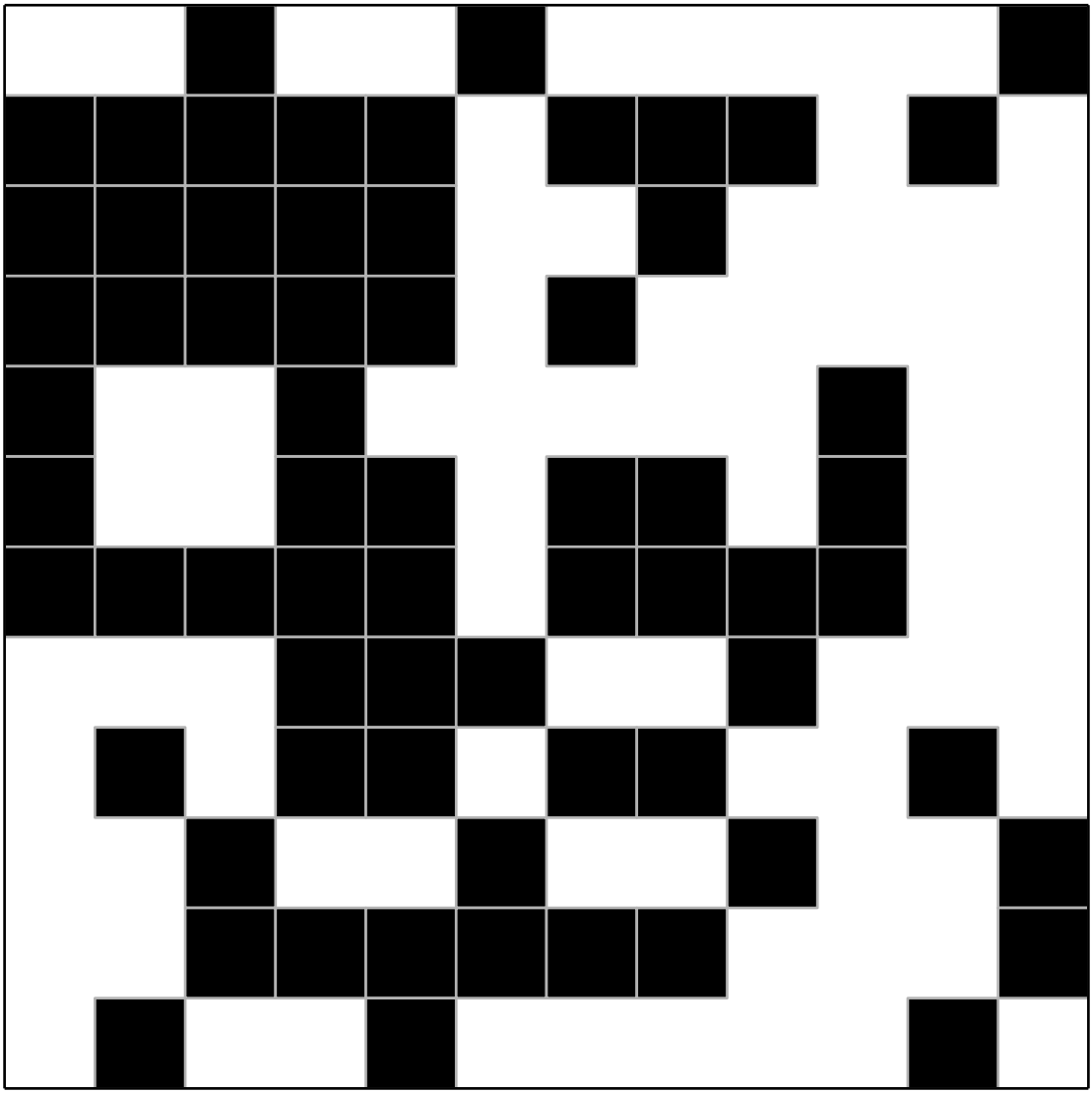
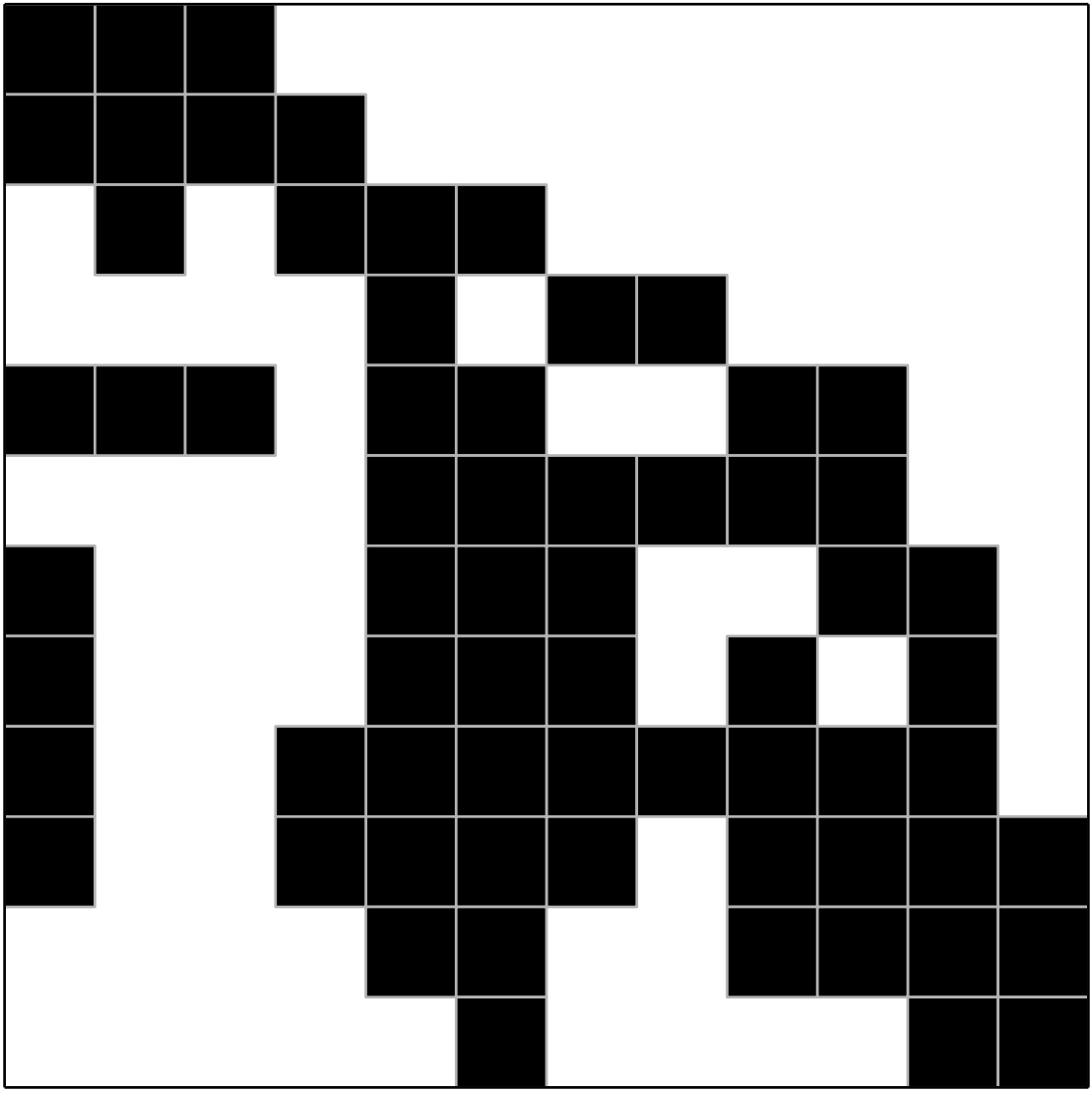
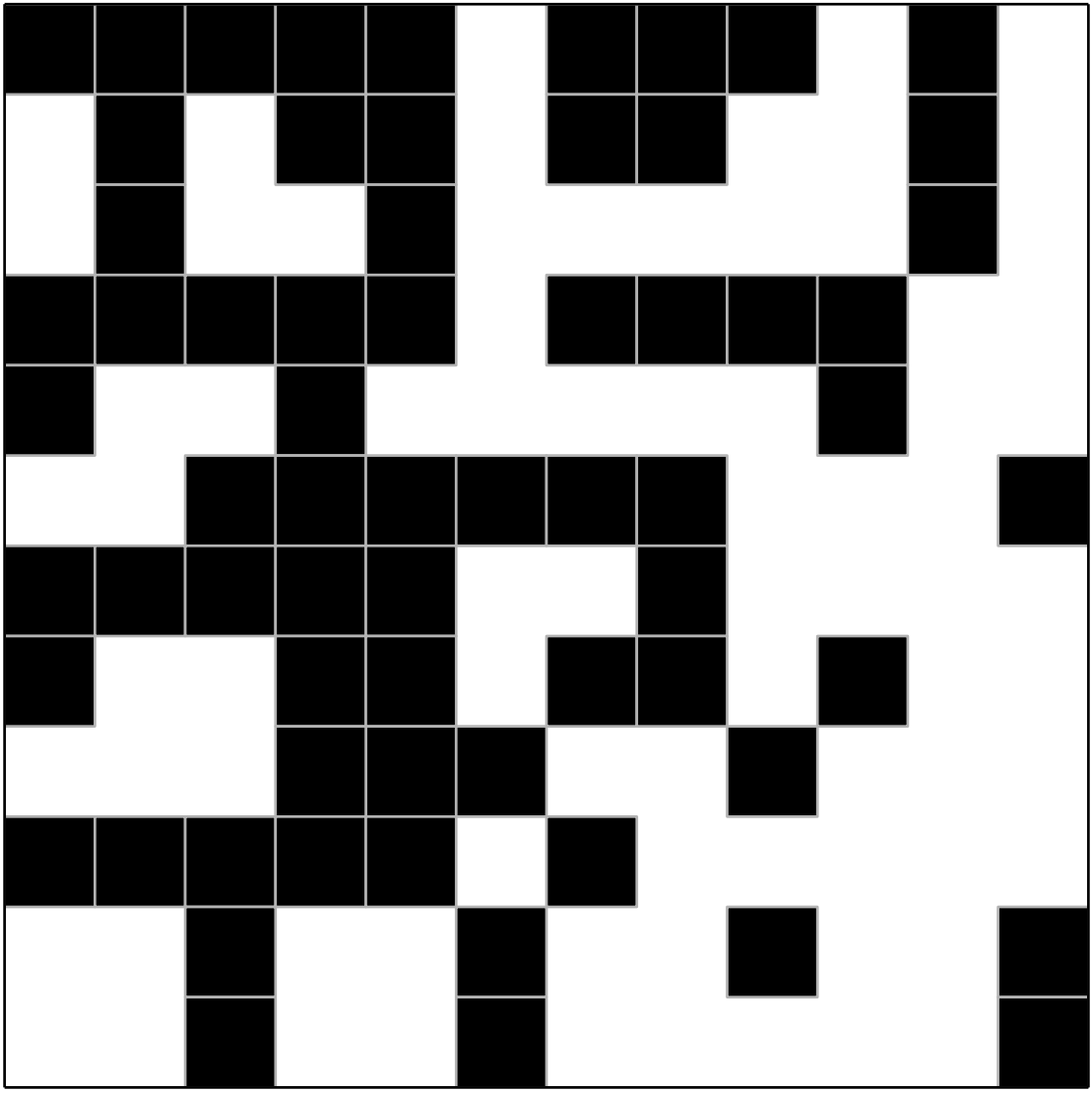


lib3_nbody5.1-05, cost: 5, diff: 5, explored: 14, time: 0.00s



lib3_nbody5.1-06 12x12 (66) con: 6, var: 6



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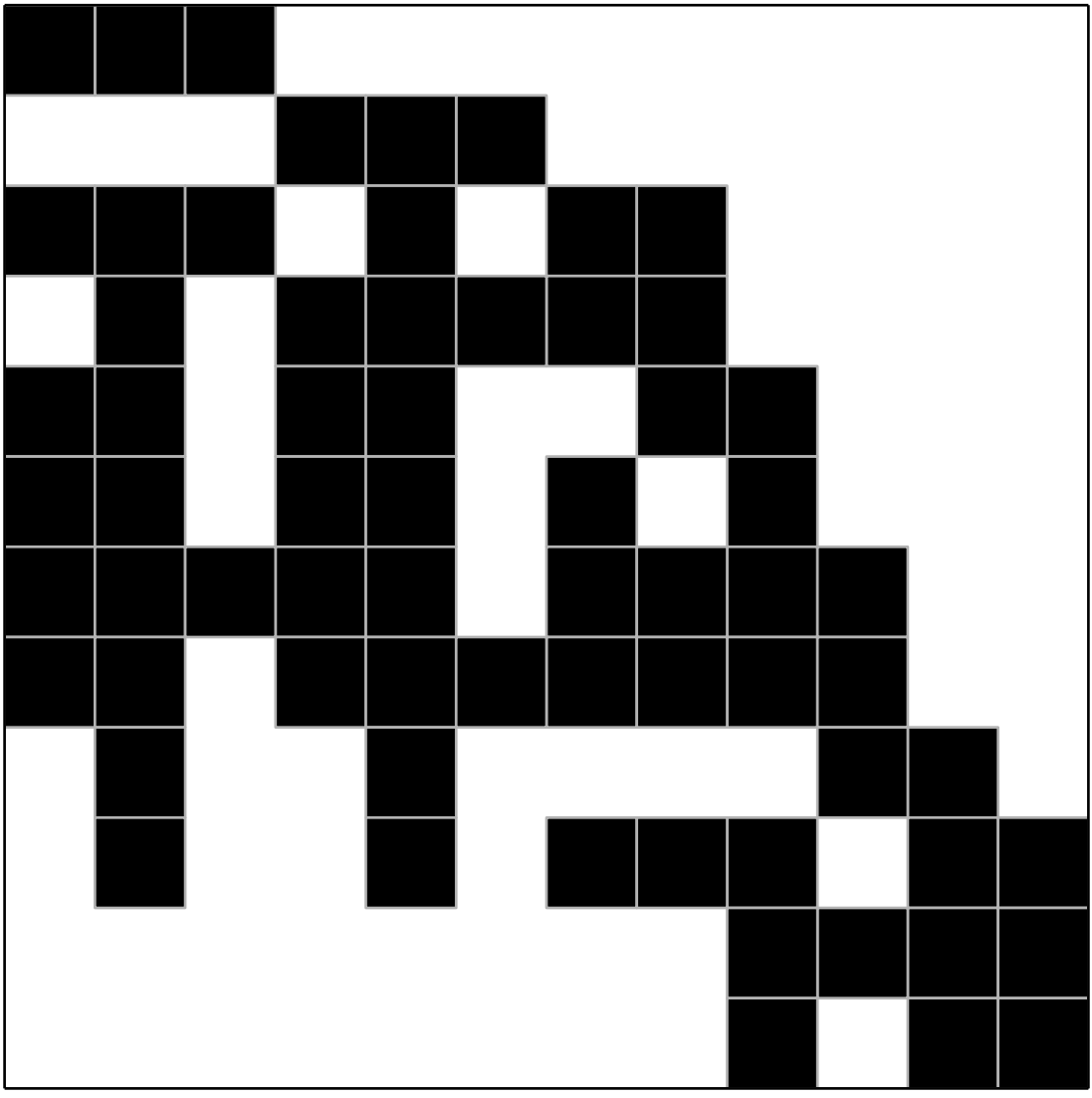

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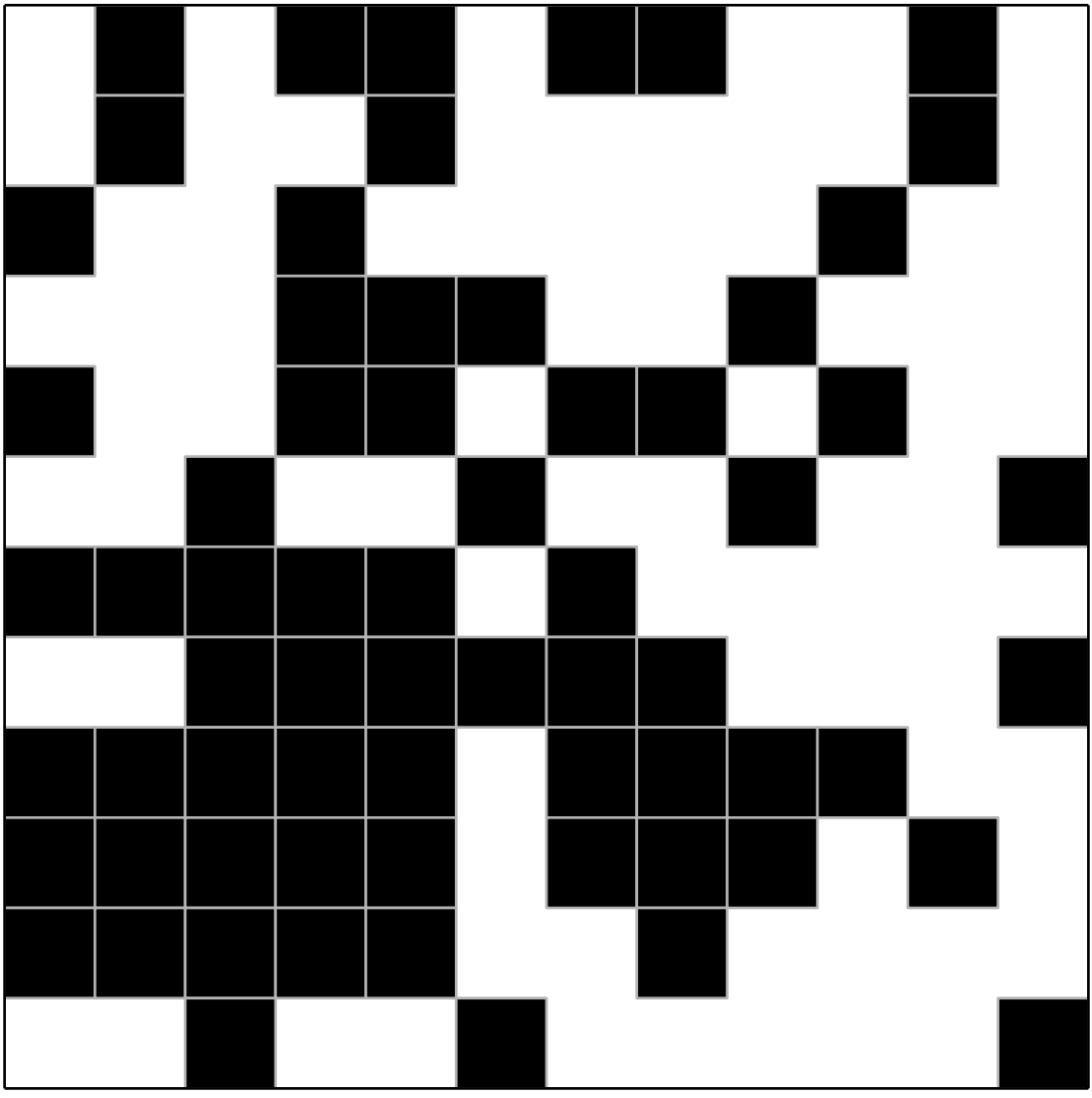

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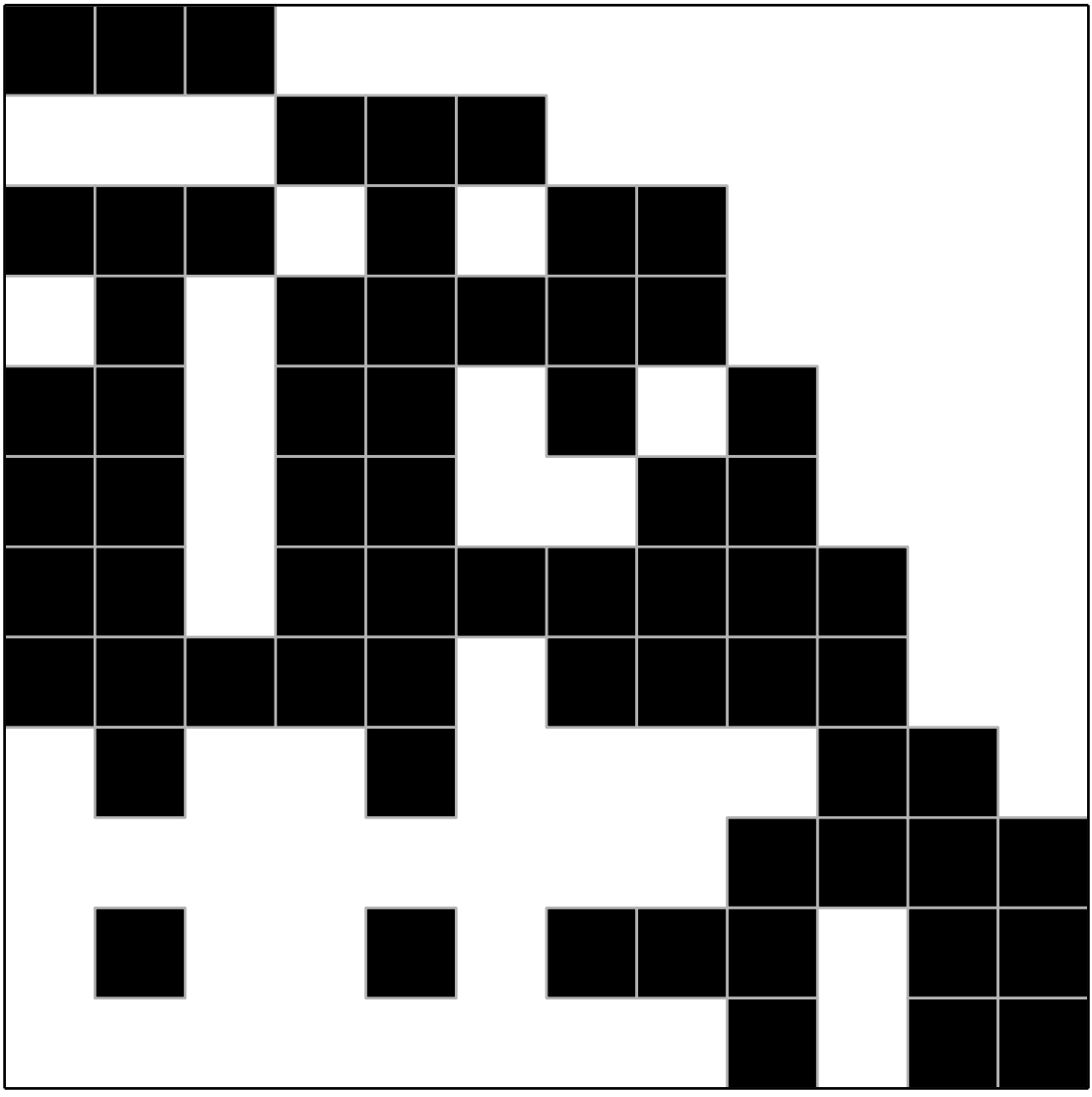

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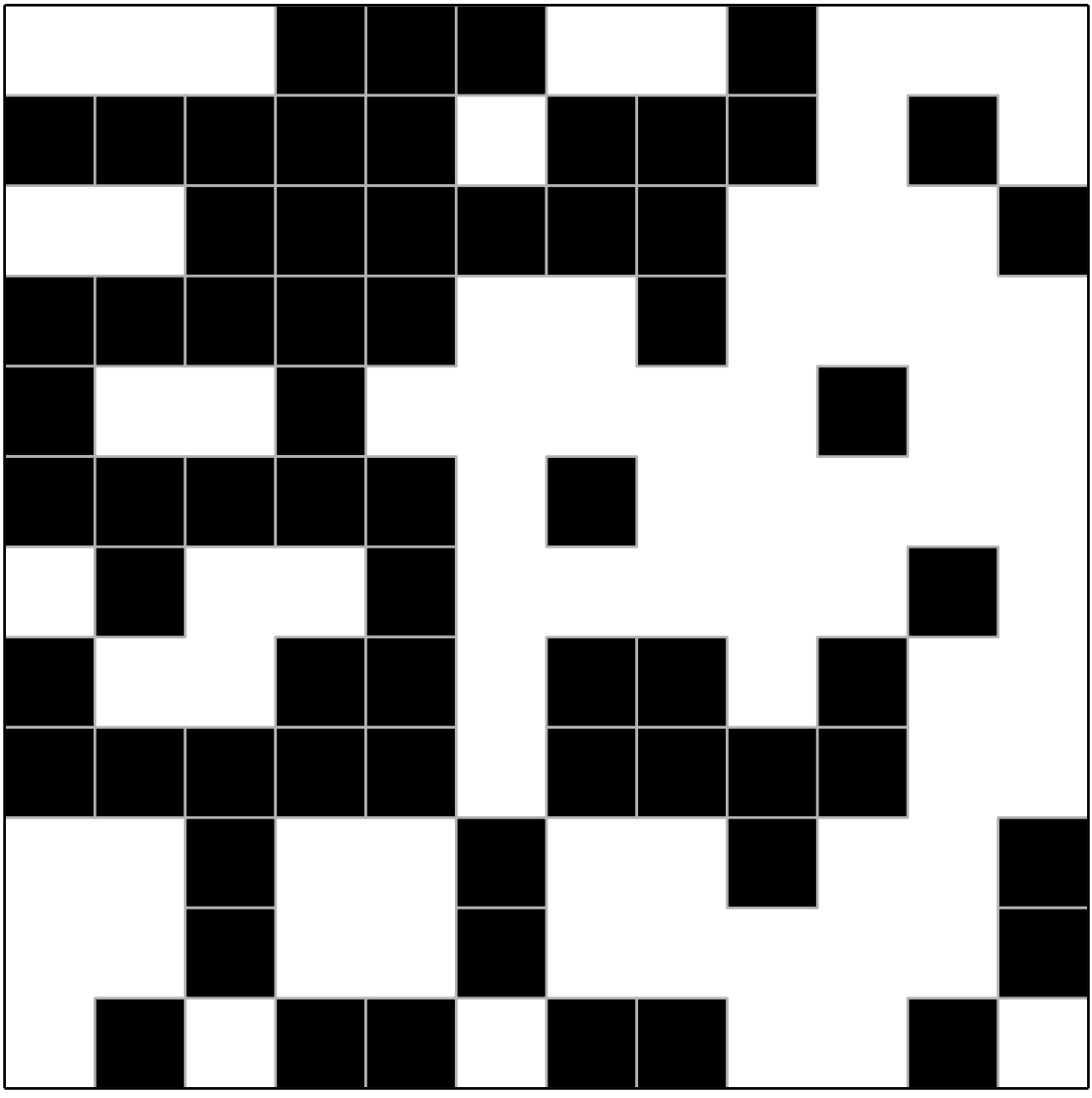
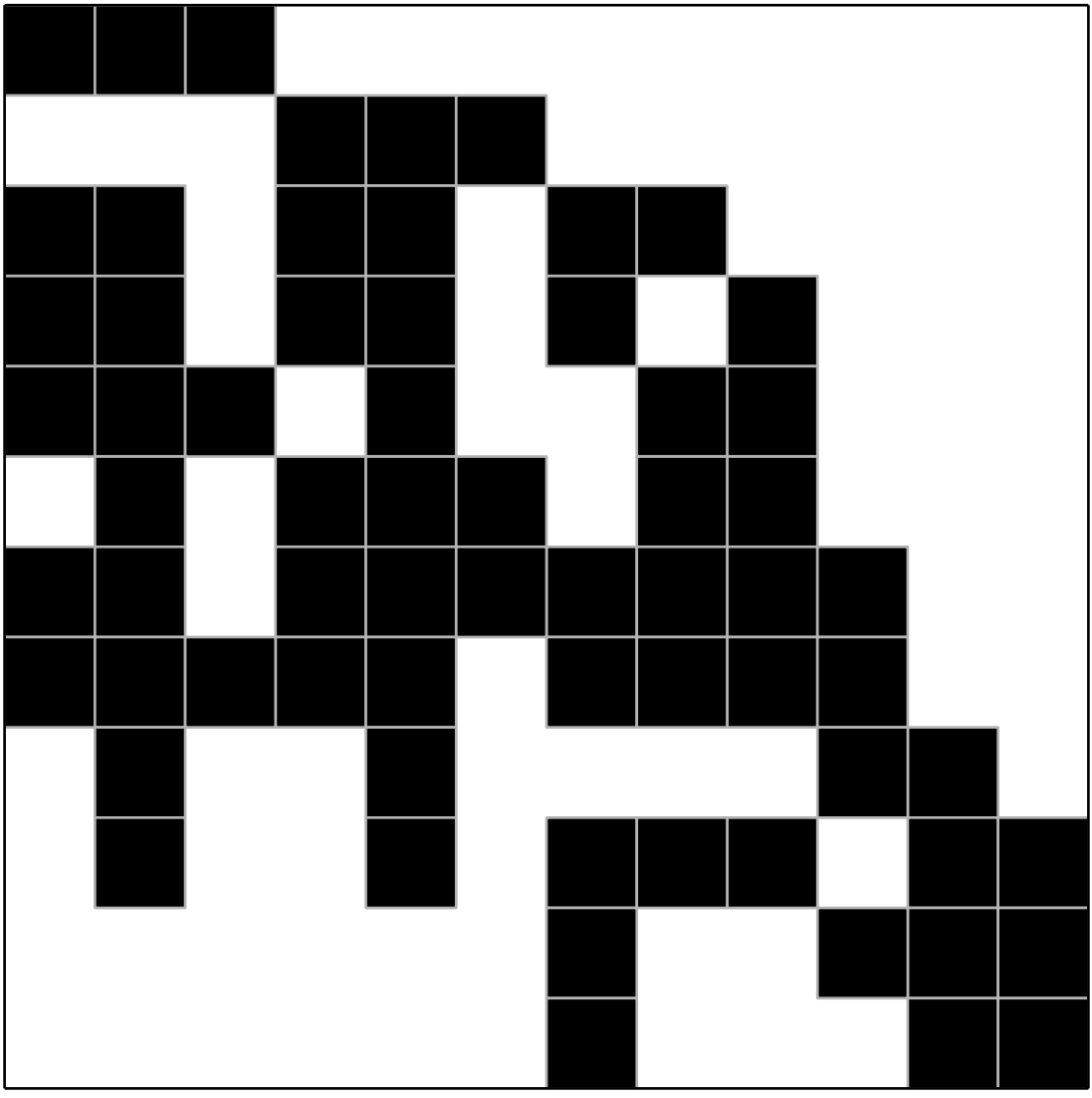
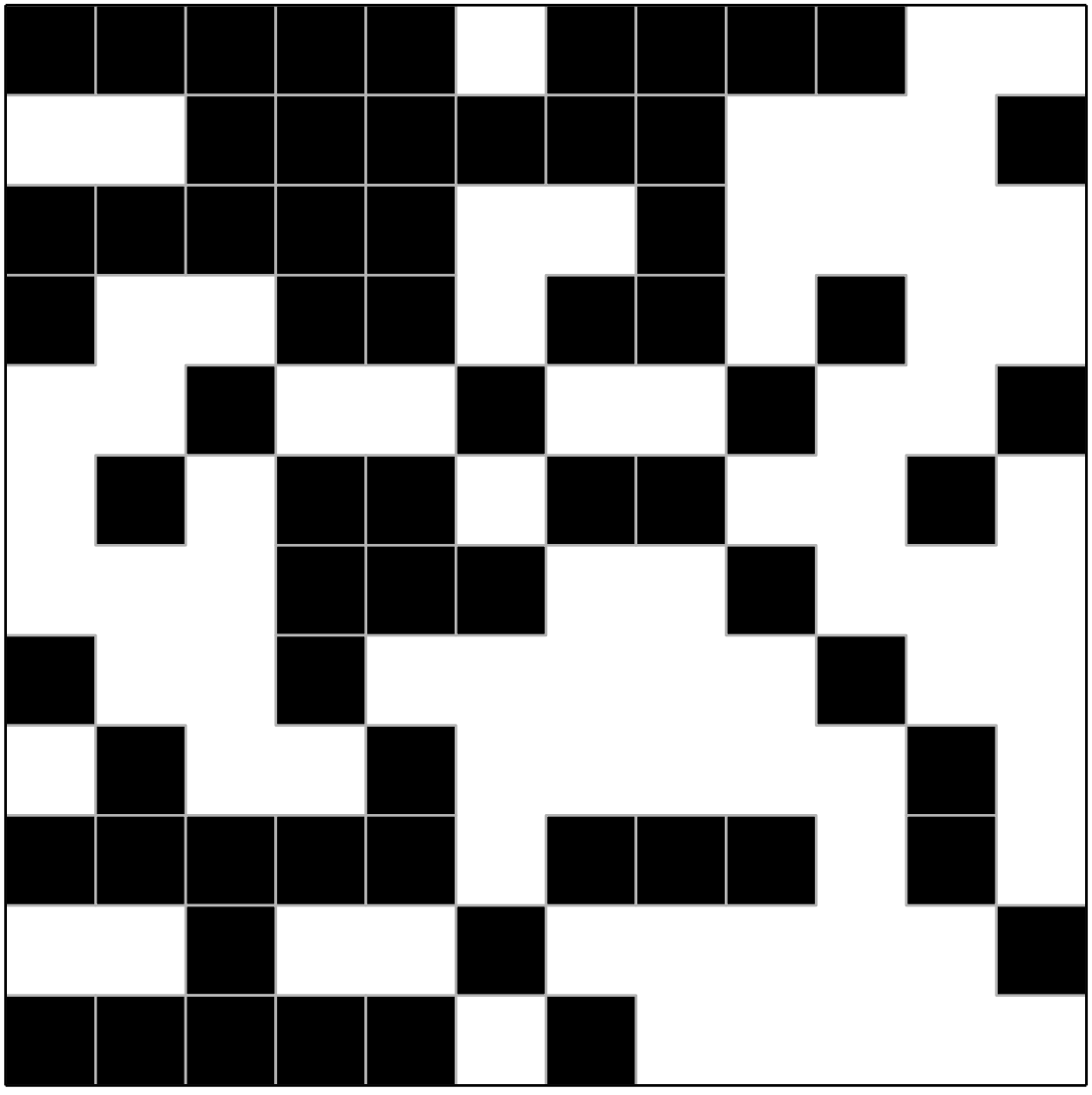


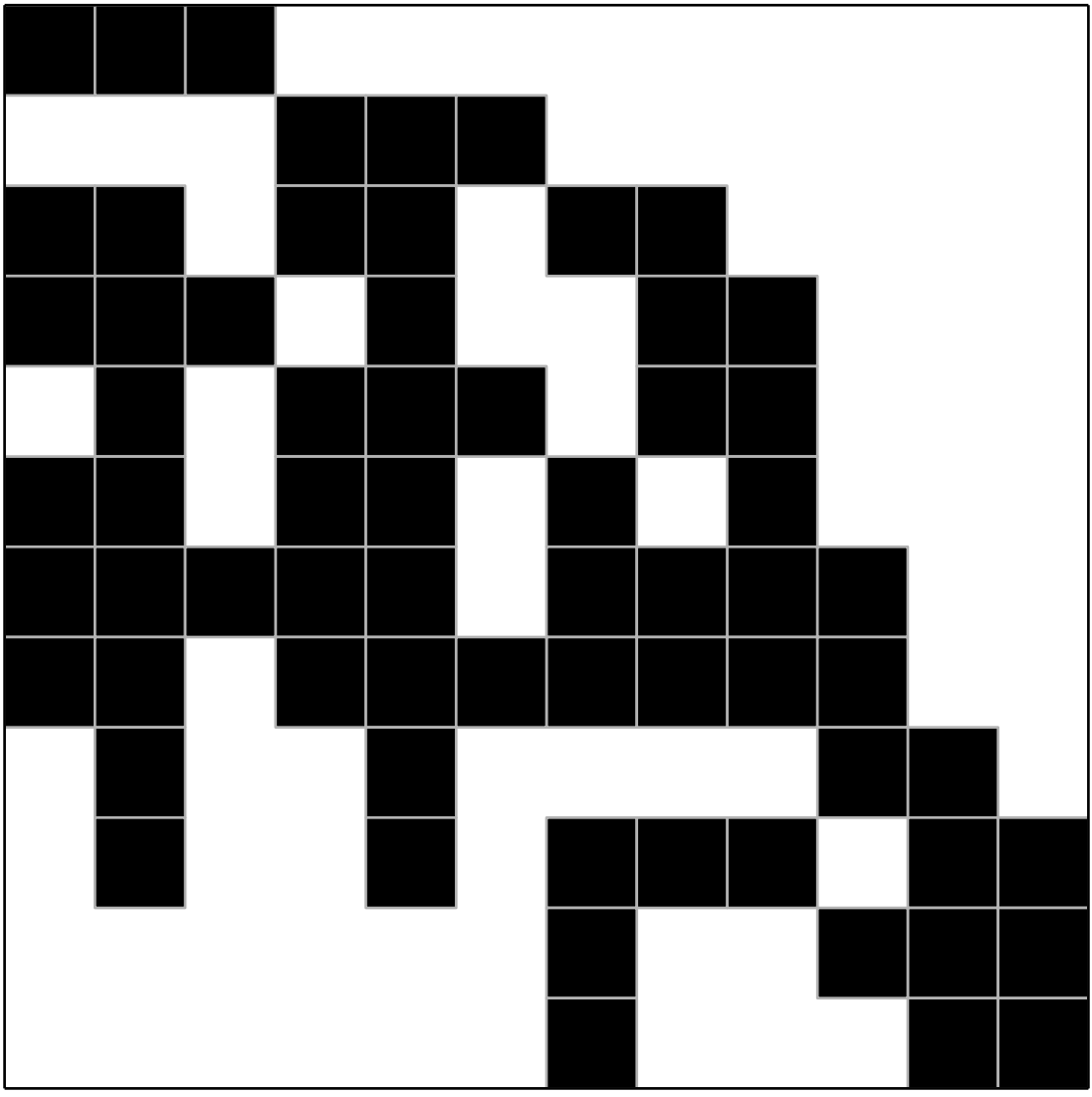
lib3_nbody5.1-08, cost: 5, diff: 5, explored: 15, time: 0.00s

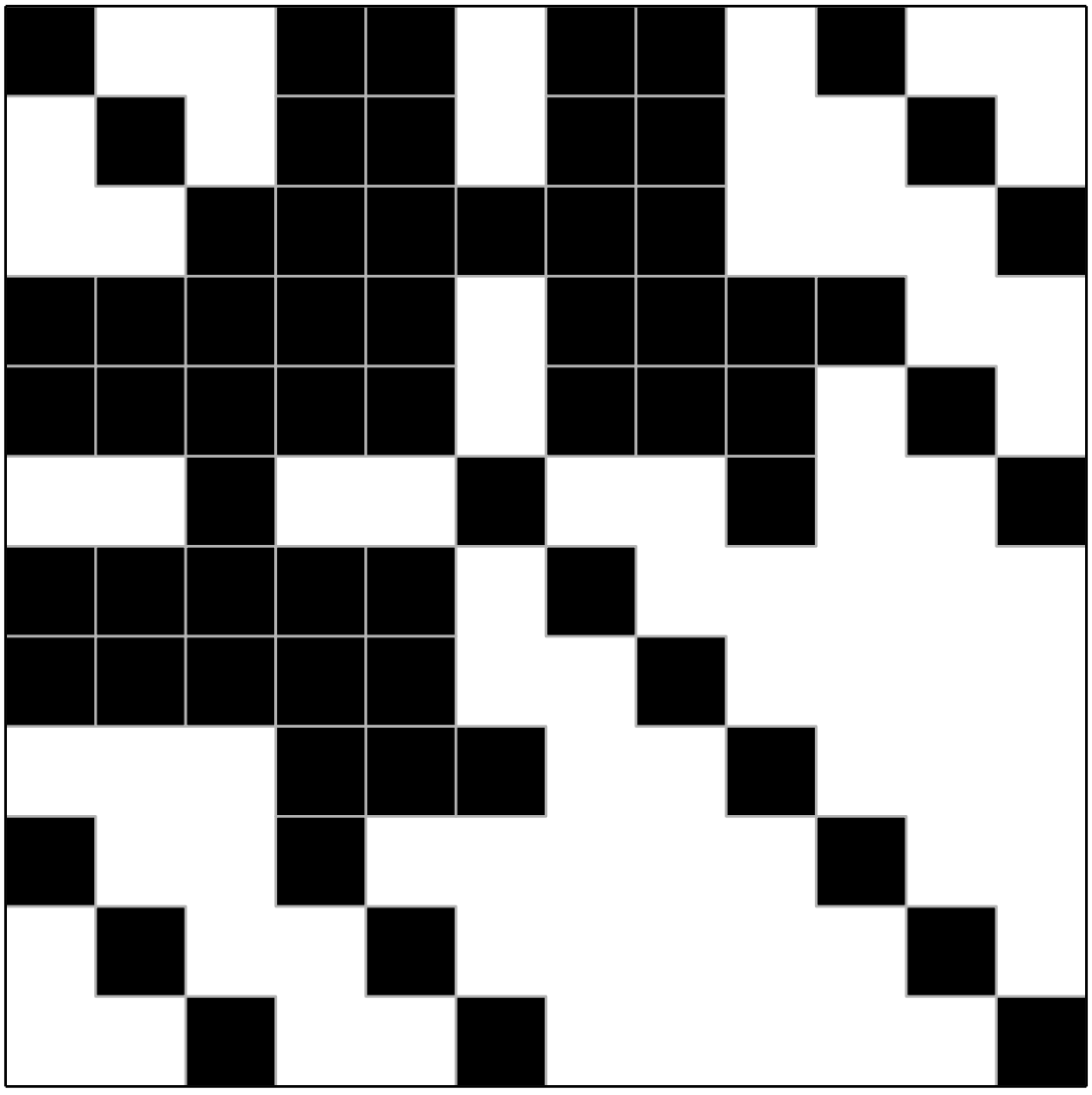


lib3_nbody5.1-09 12x12 (66) con: 6, var: 6

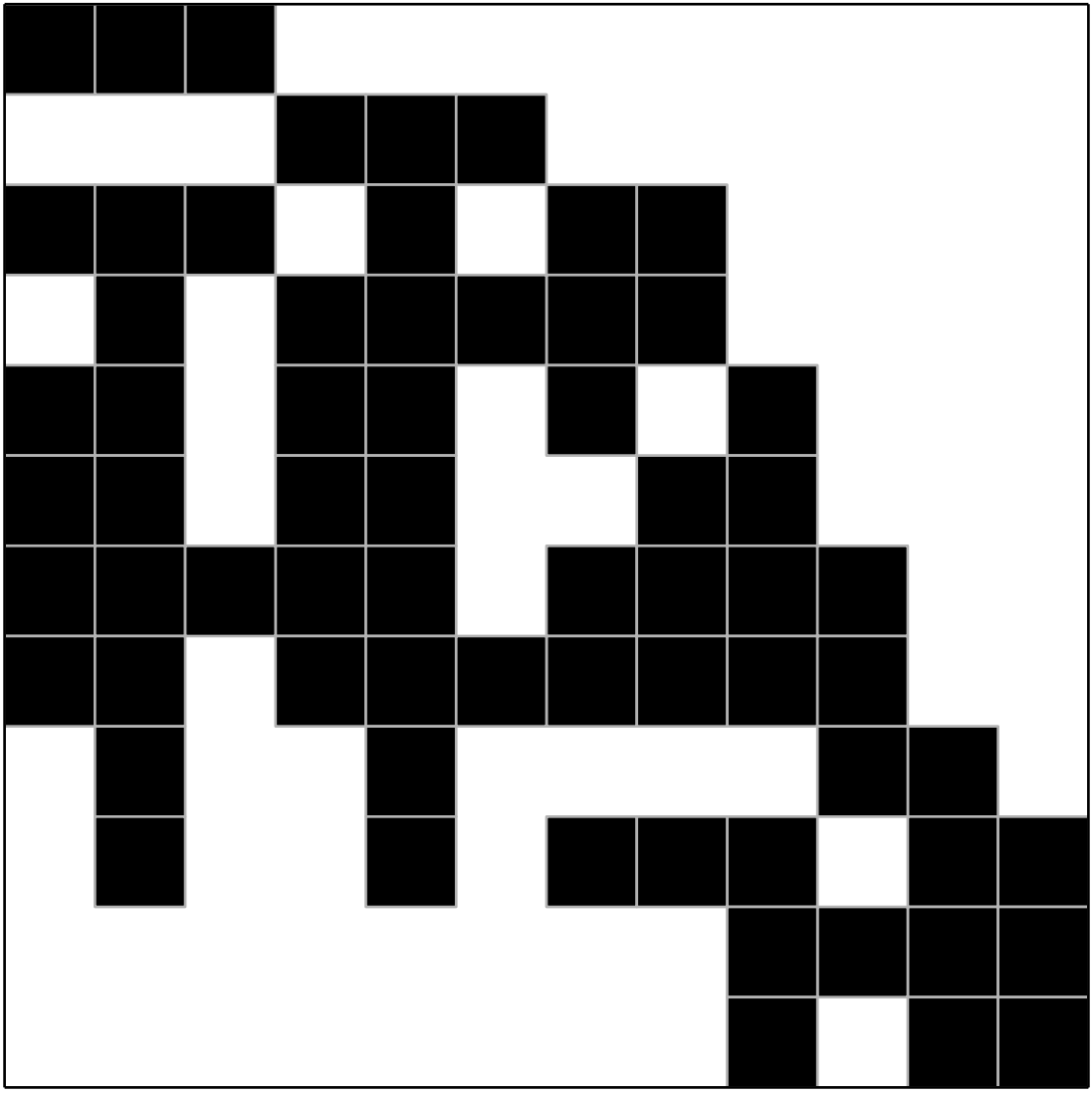


lib3_nbody5.1-09, cost: 5, diff: 5, explored: 14, time: 0.00s

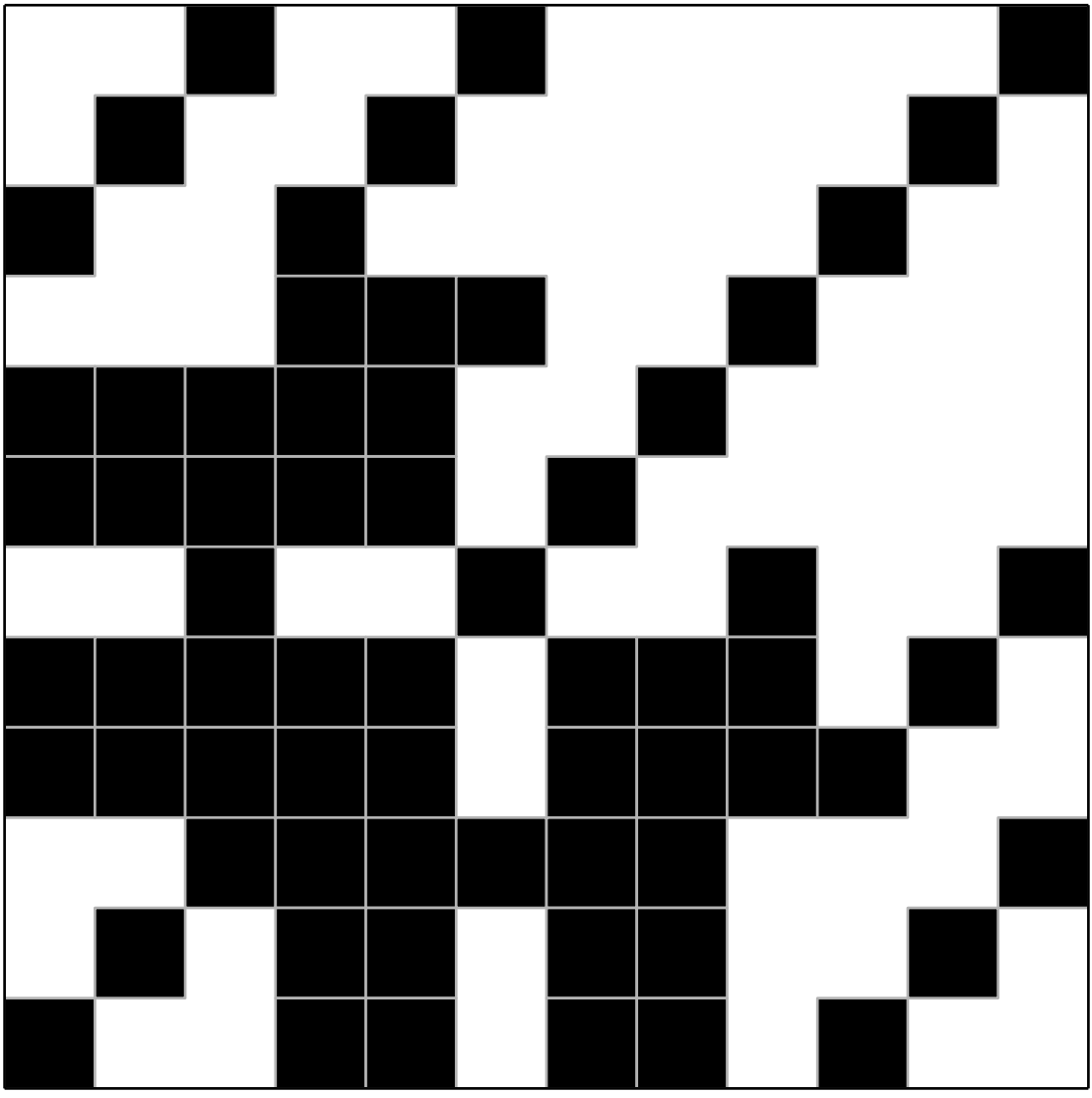



lib3_nbody5.1-IN 12x12 (66) con: 6, var: 6

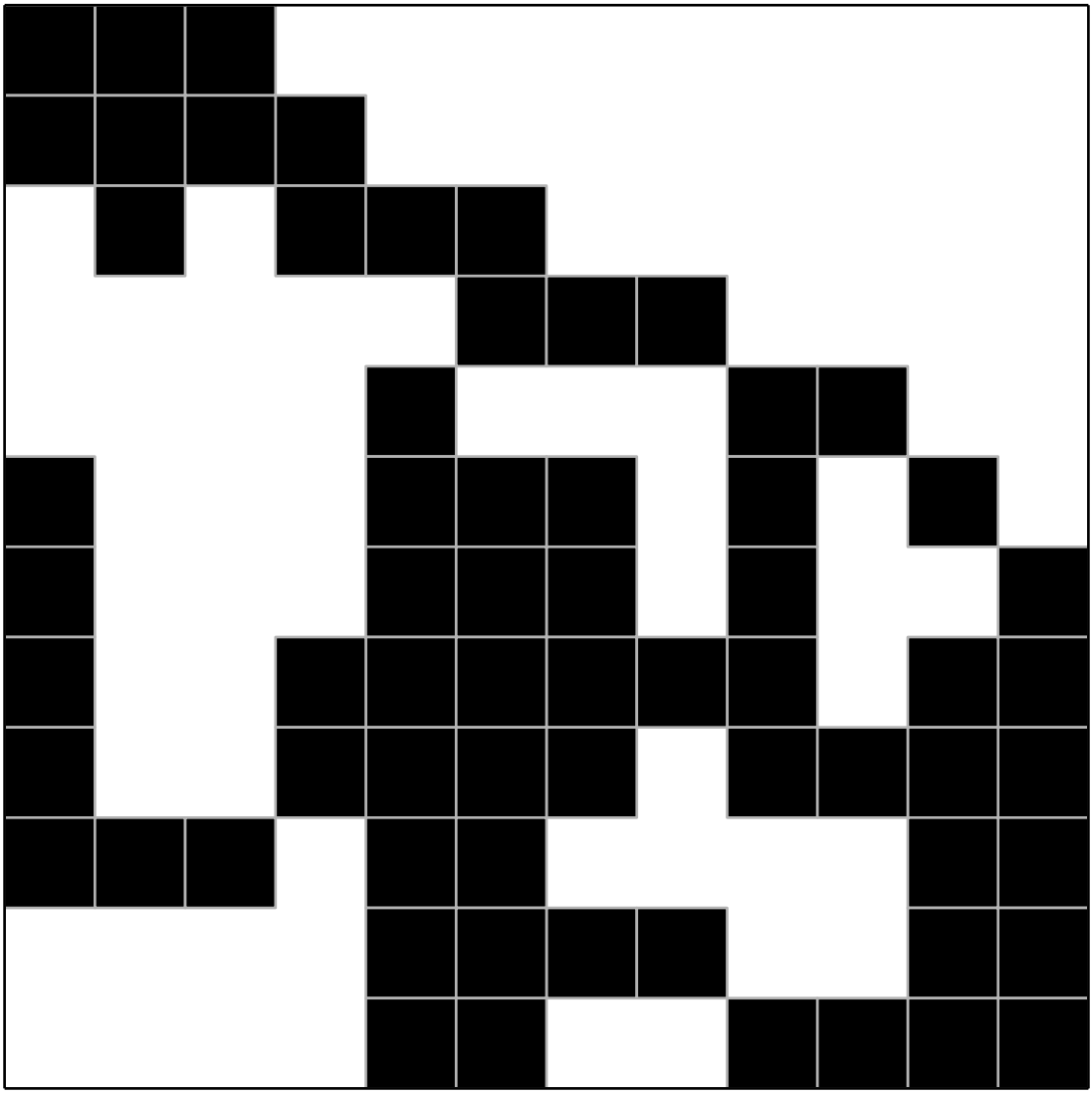
lib3_nbody5.1-IN, cost: 5, diff: 5, explored: 14, time: 0.00s



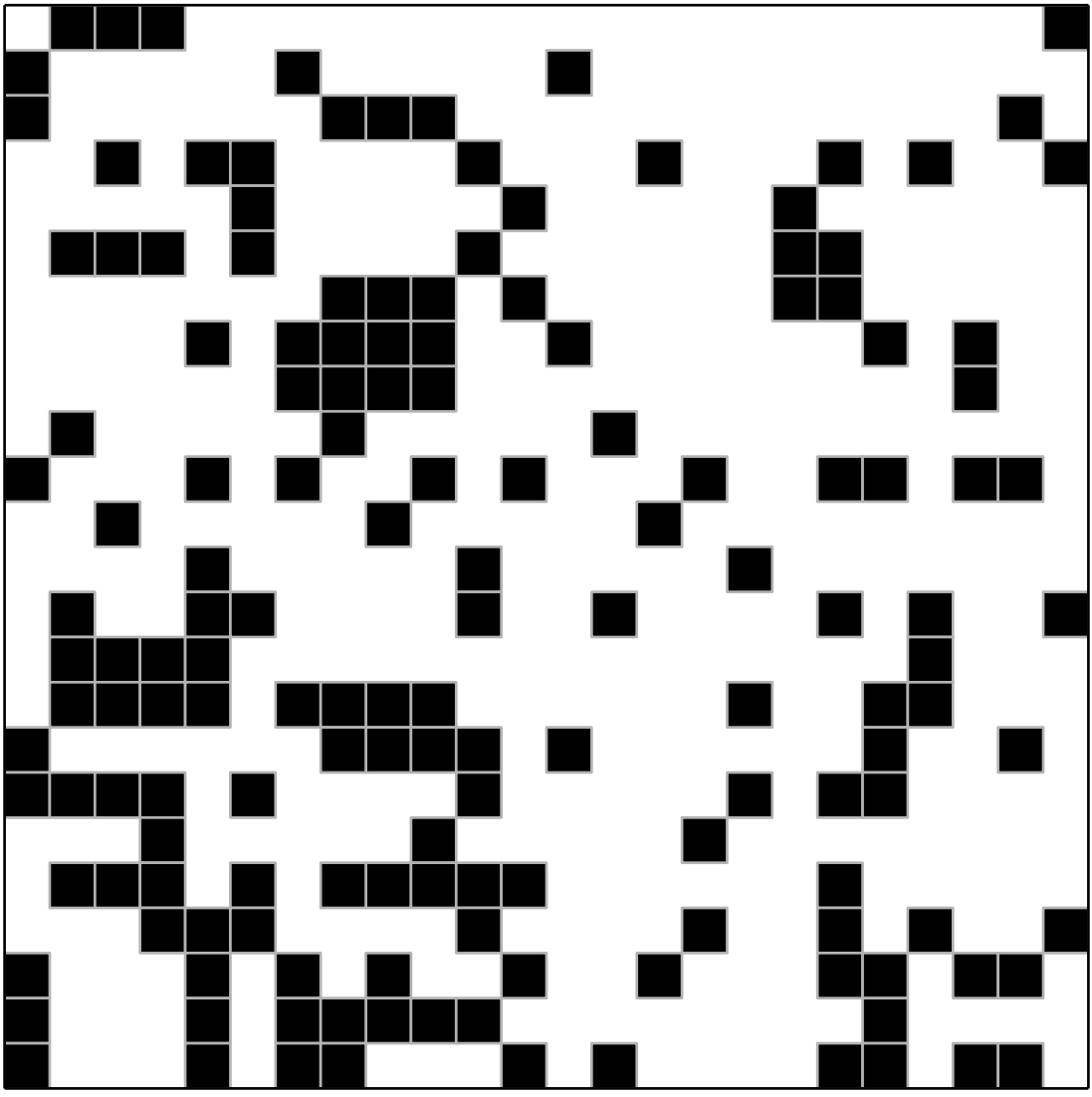
lib3_nbody5.1-RE 12x12 (66) con: 6, var: 6

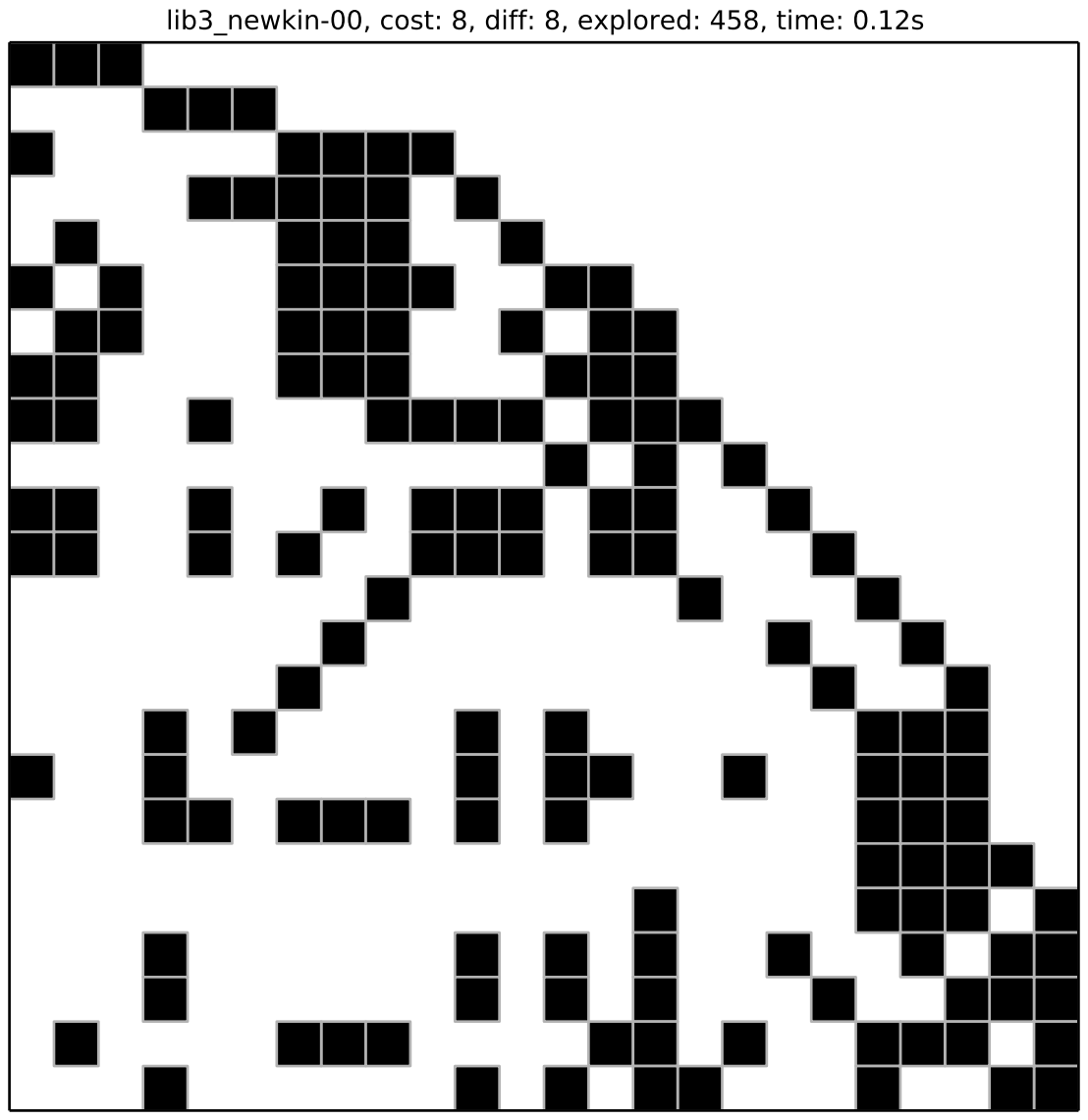


lib3_nbody5.1-RE, cost: 5, diff: 5, explored: 14, time: 0.00s

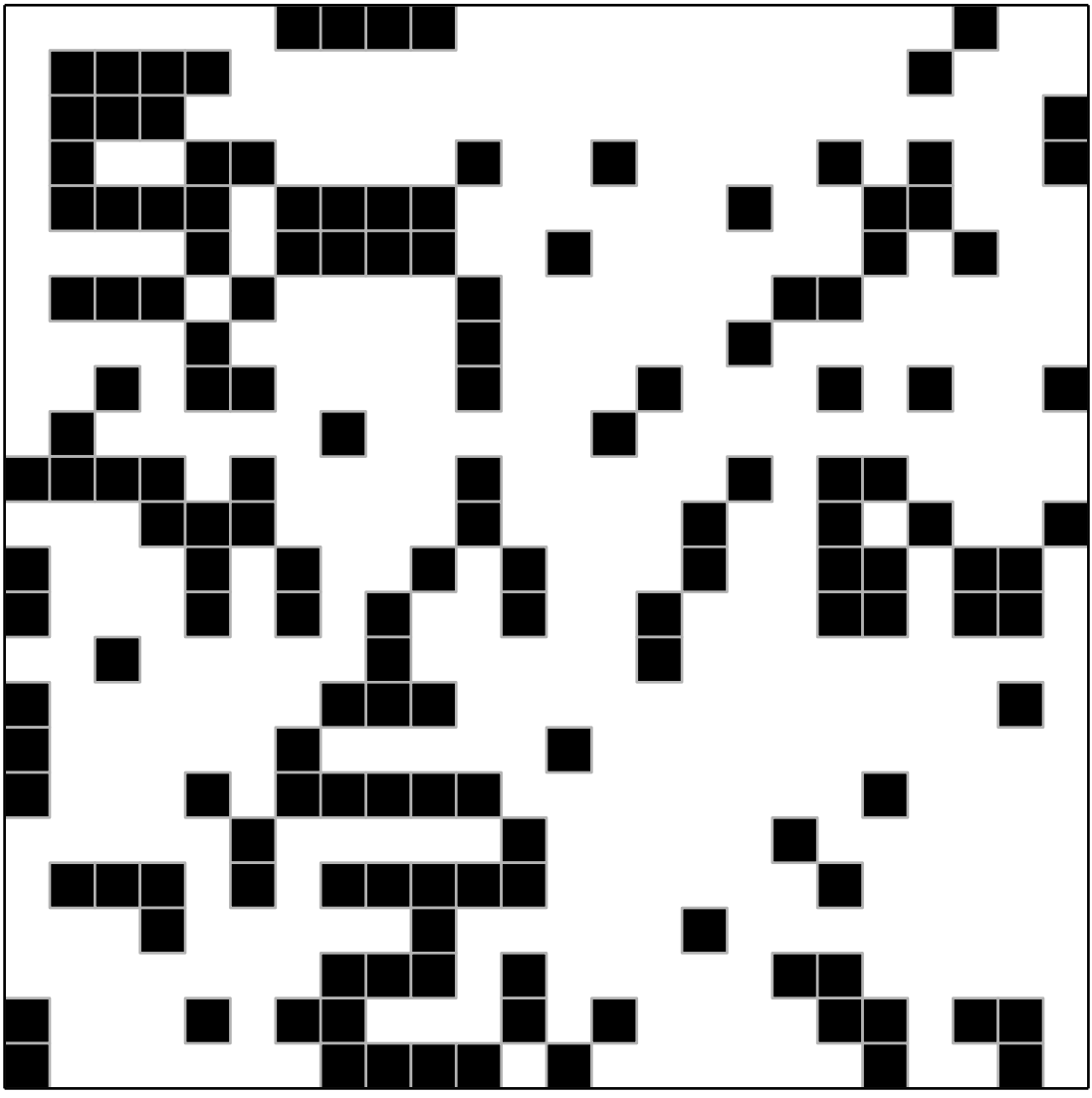


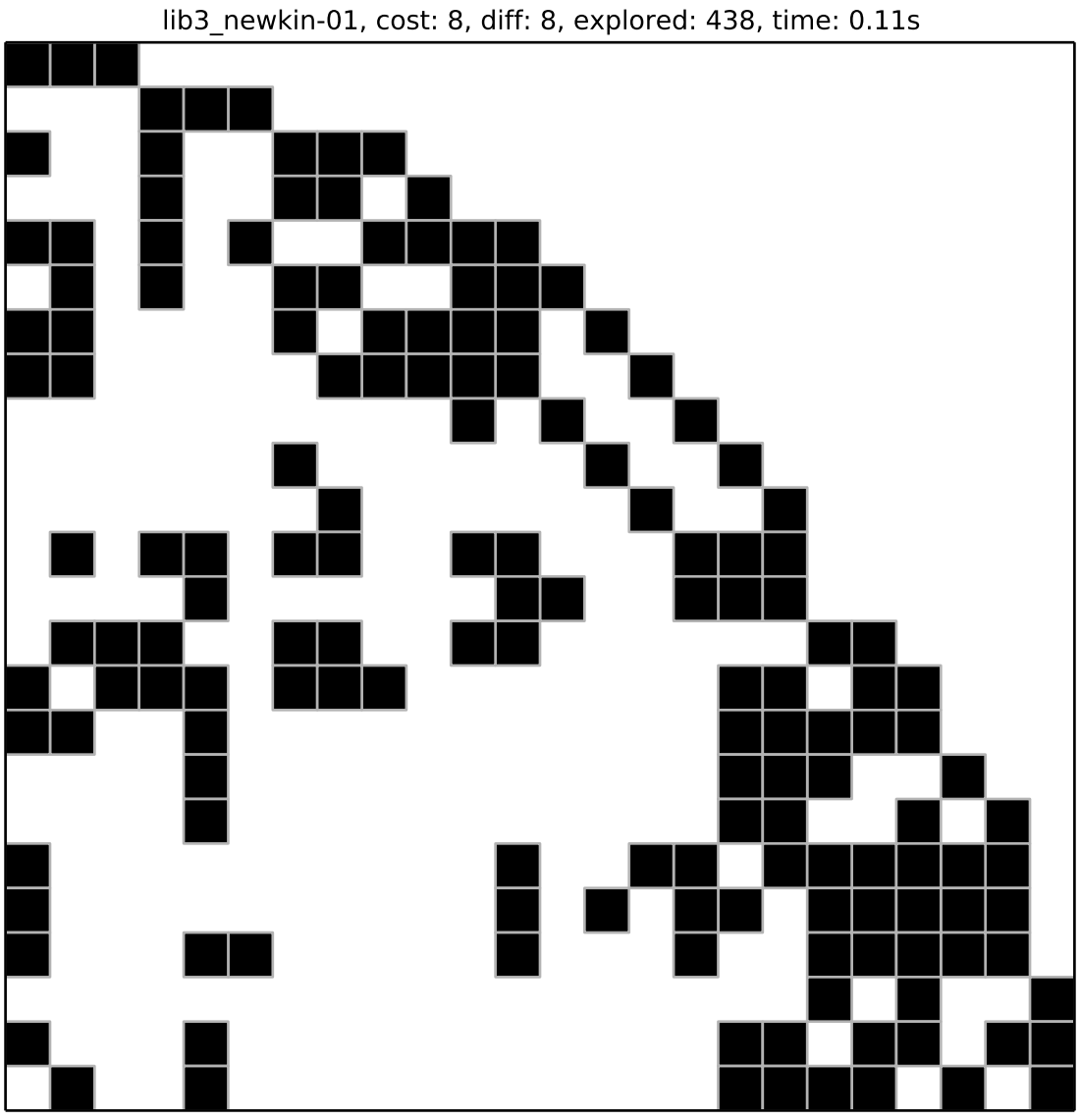
lib3_newkin-00 24x24 (158) con: 12, var: 12

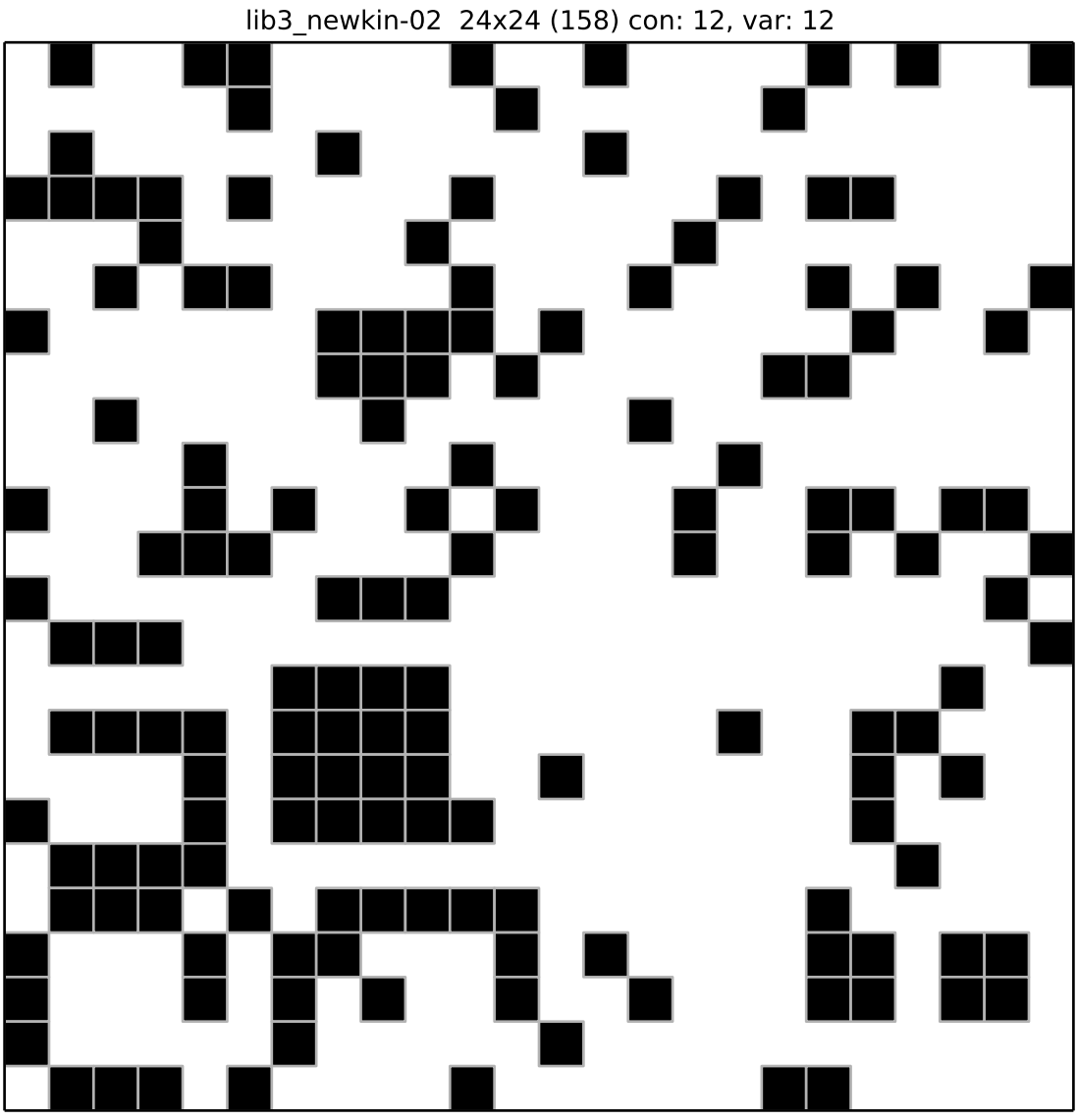


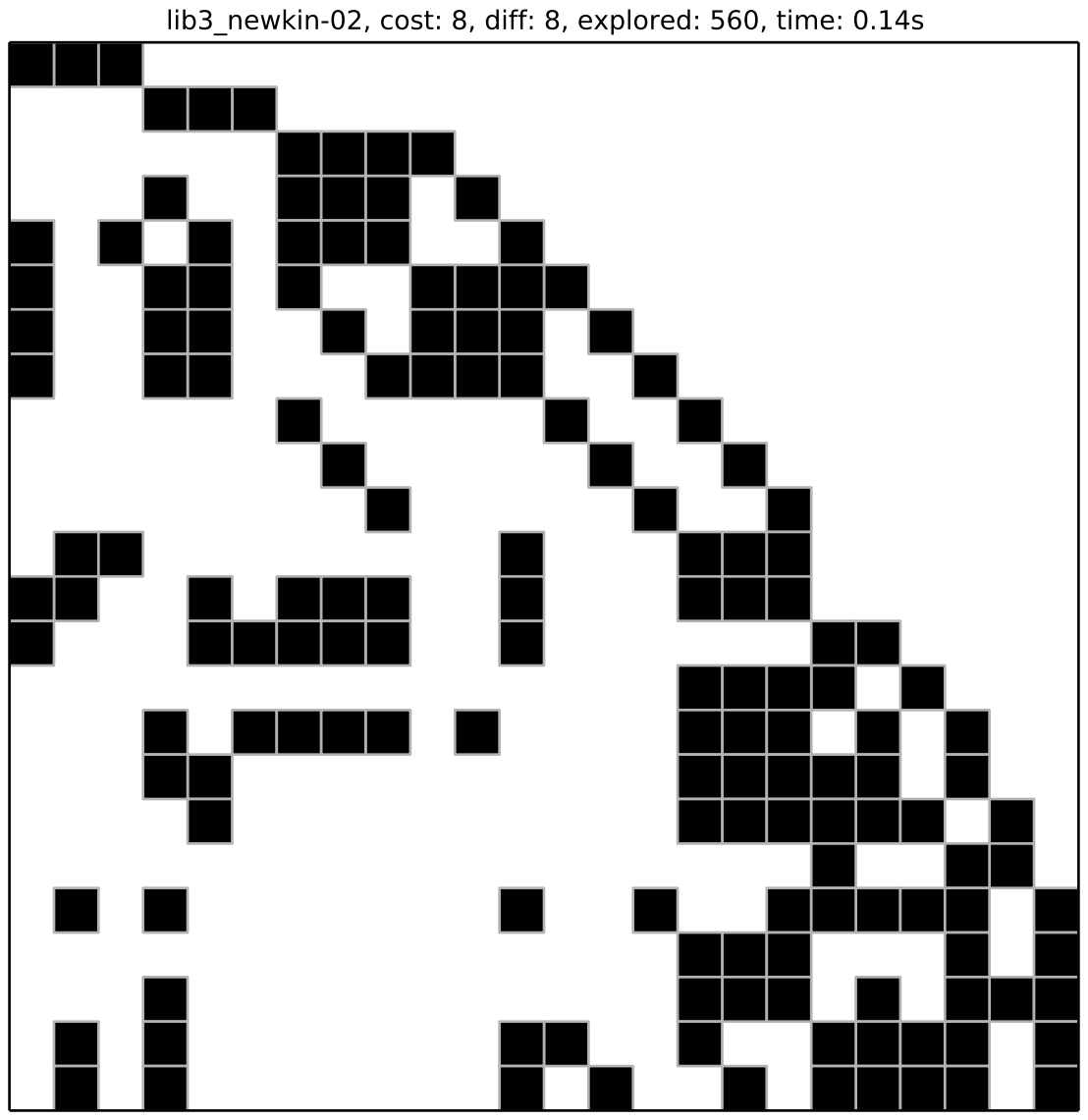

lib3_newkin-00, cost: 8, diff: 8, explored: 458, time: 0.12s

lib3_newkin-01 24x24 (158) con: 12, var: 12

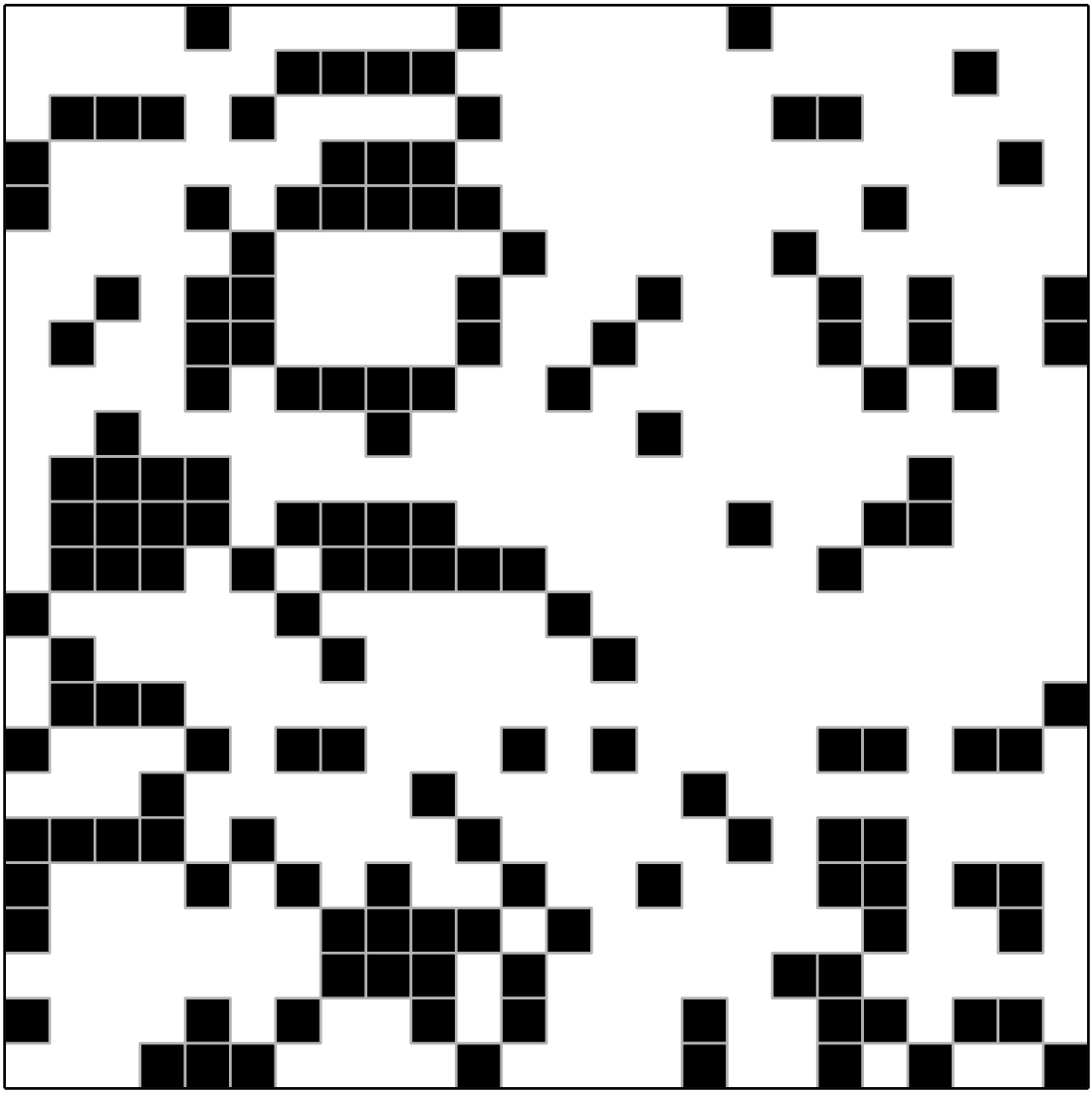



lib3_newkin-01, cost: 8, diff: 8, explored: 438, time: 0.11s

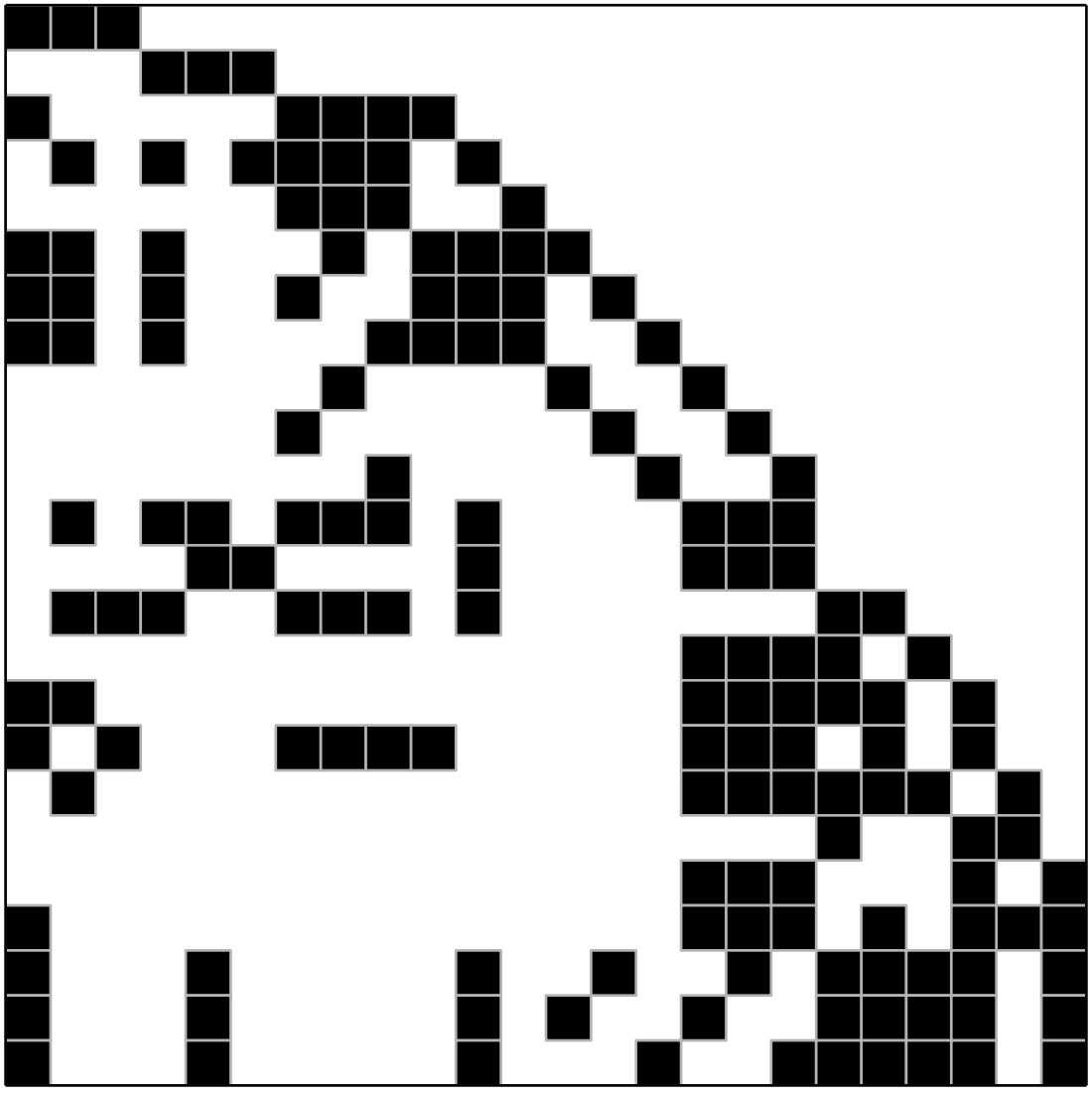

lib3_newkin-02 24x24 (158) con: 12, var: 12


lib3_newkin-02, cost: 8, diff: 8, explored: 560, time: 0.14s

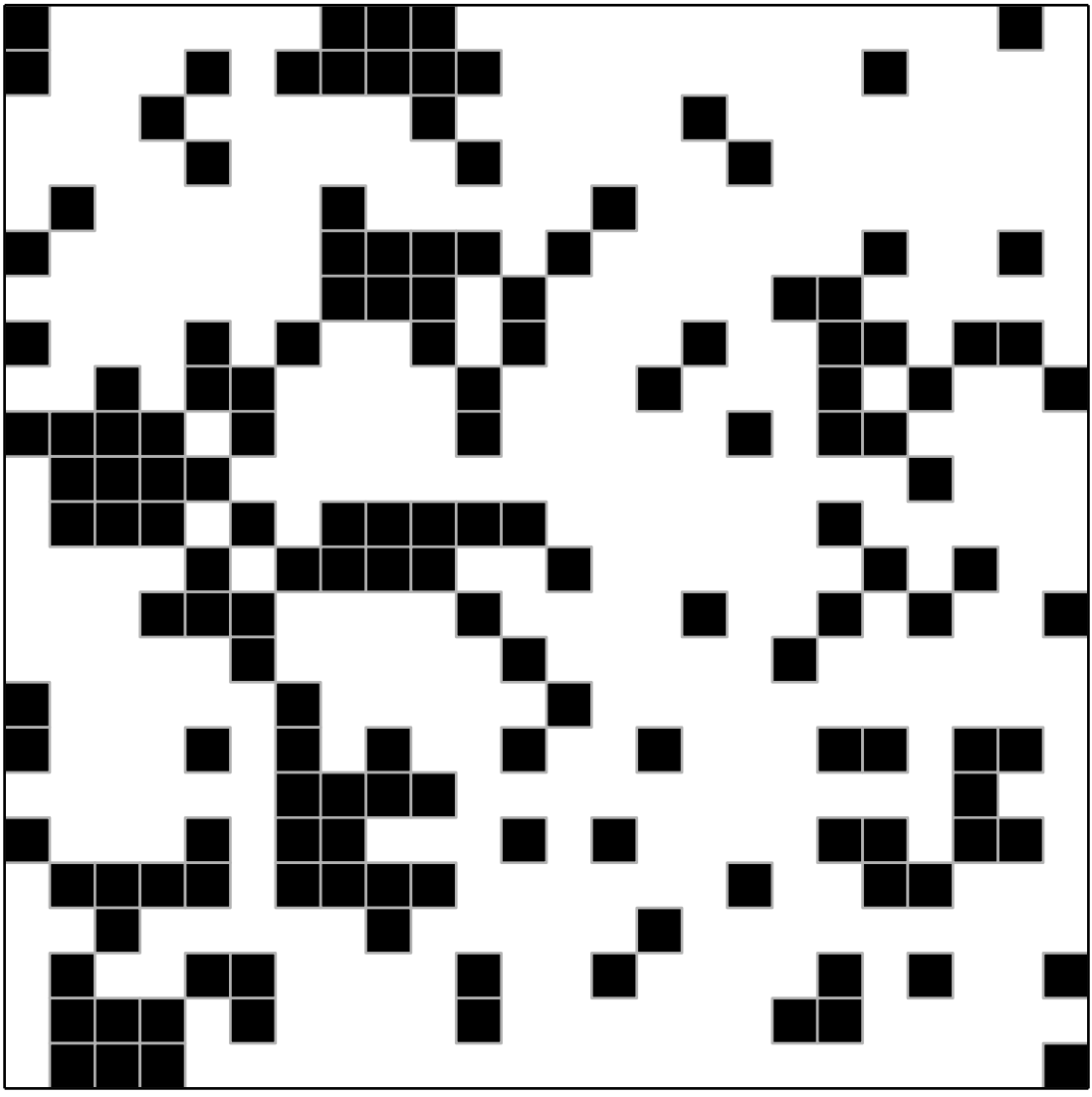
lib3_newkin-03 24x24 (158) con: 12, var: 12

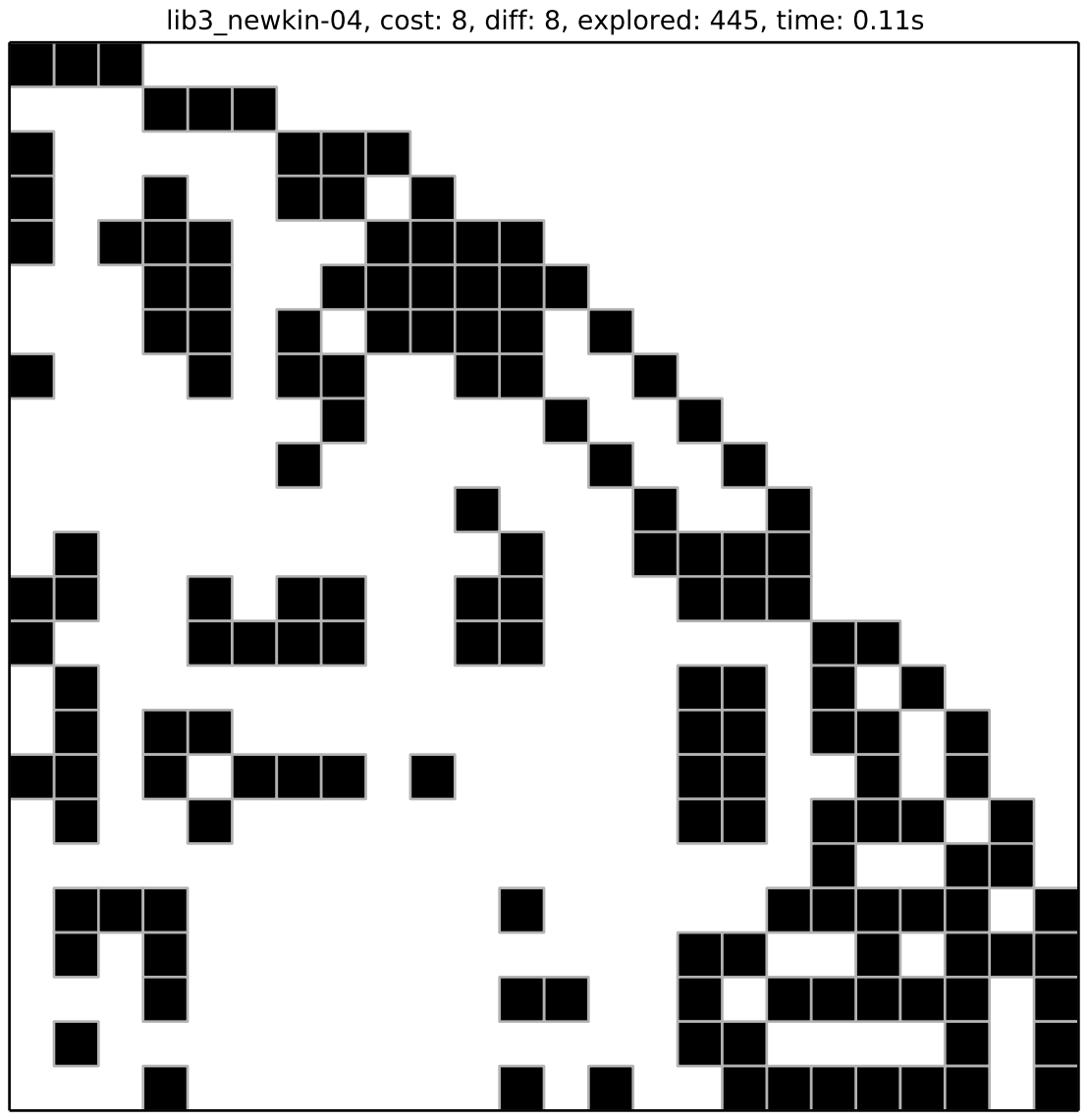


lib3_newkin-03, cost: 8, diff: 8, explored: 440, time: 0.11s

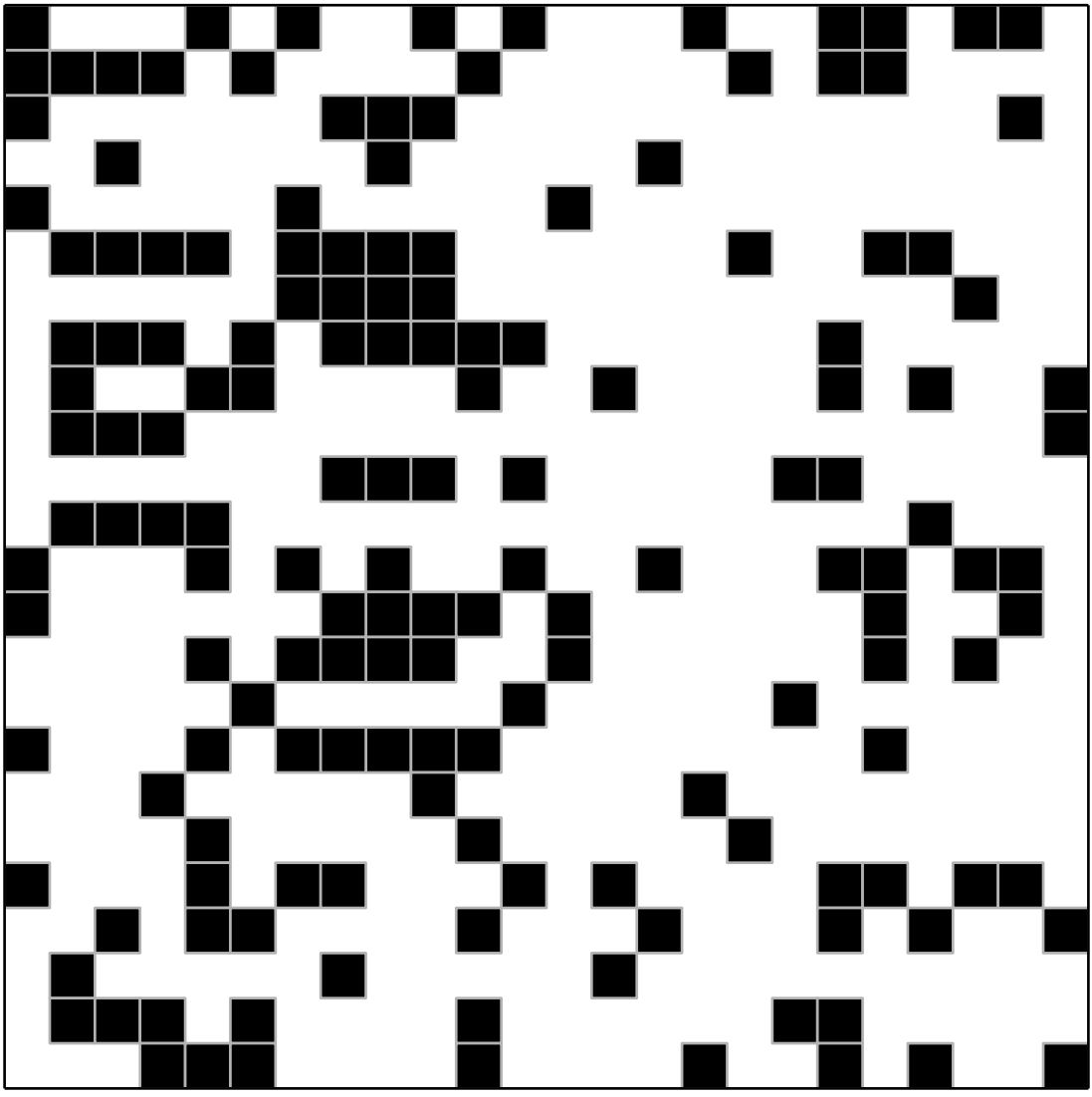


lib3_newkin-04 24x24 (158) con: 12, var: 12

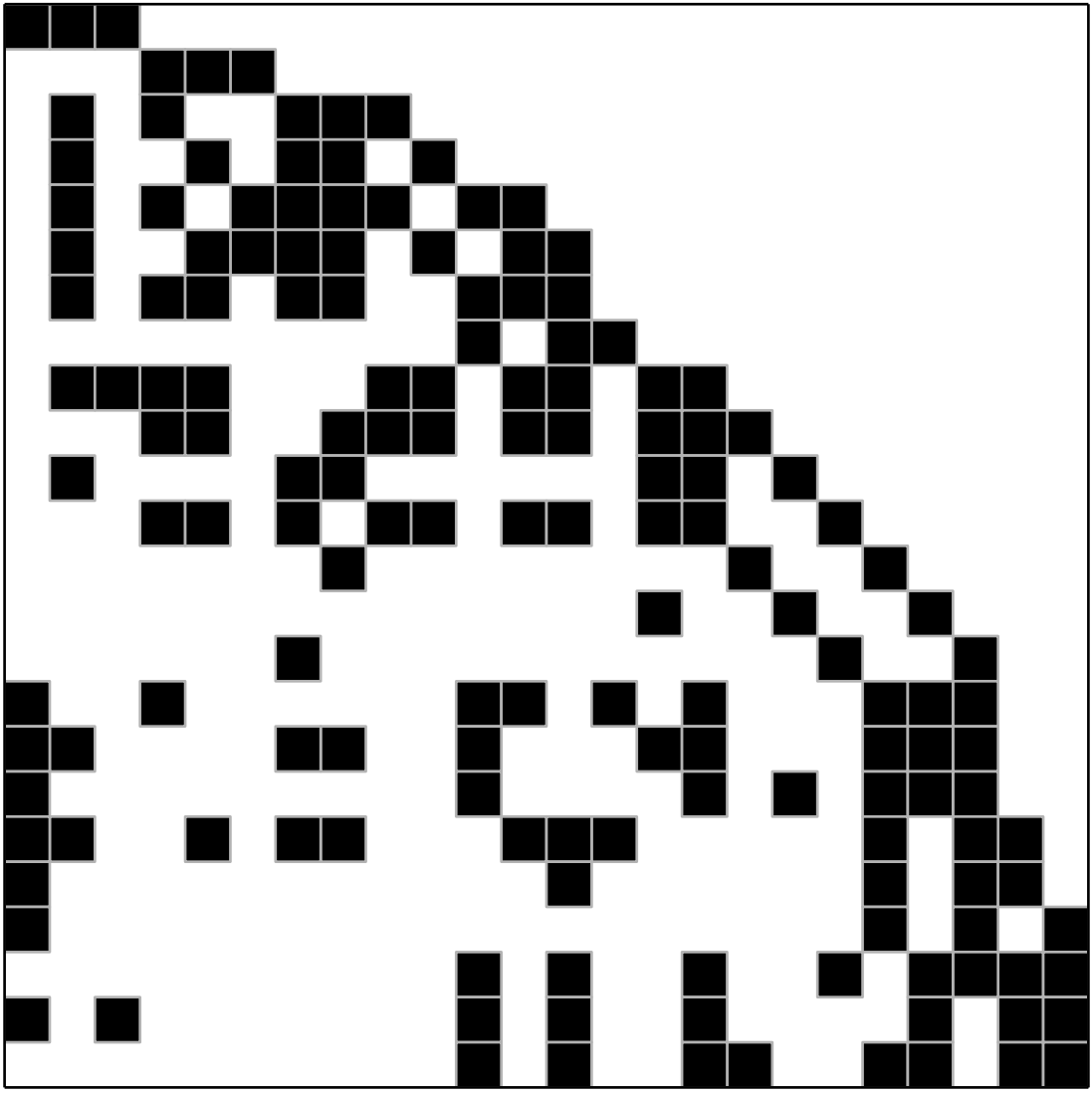



lib3_newkin-04, cost: 8, diff: 8, explored: 445, time: 0.11s

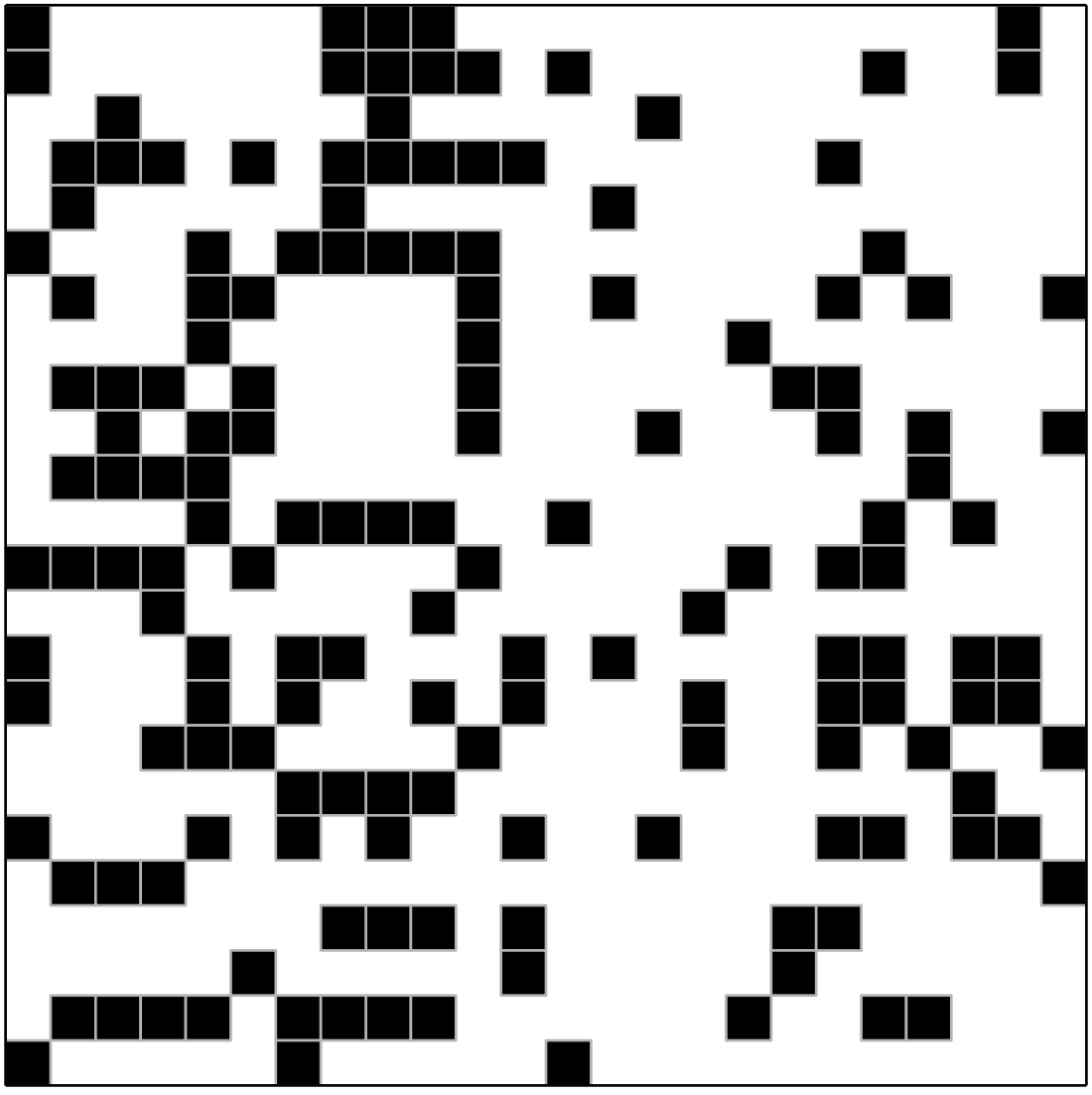
lib3_newkin-05 24x24 (158) con: 12, var: 12

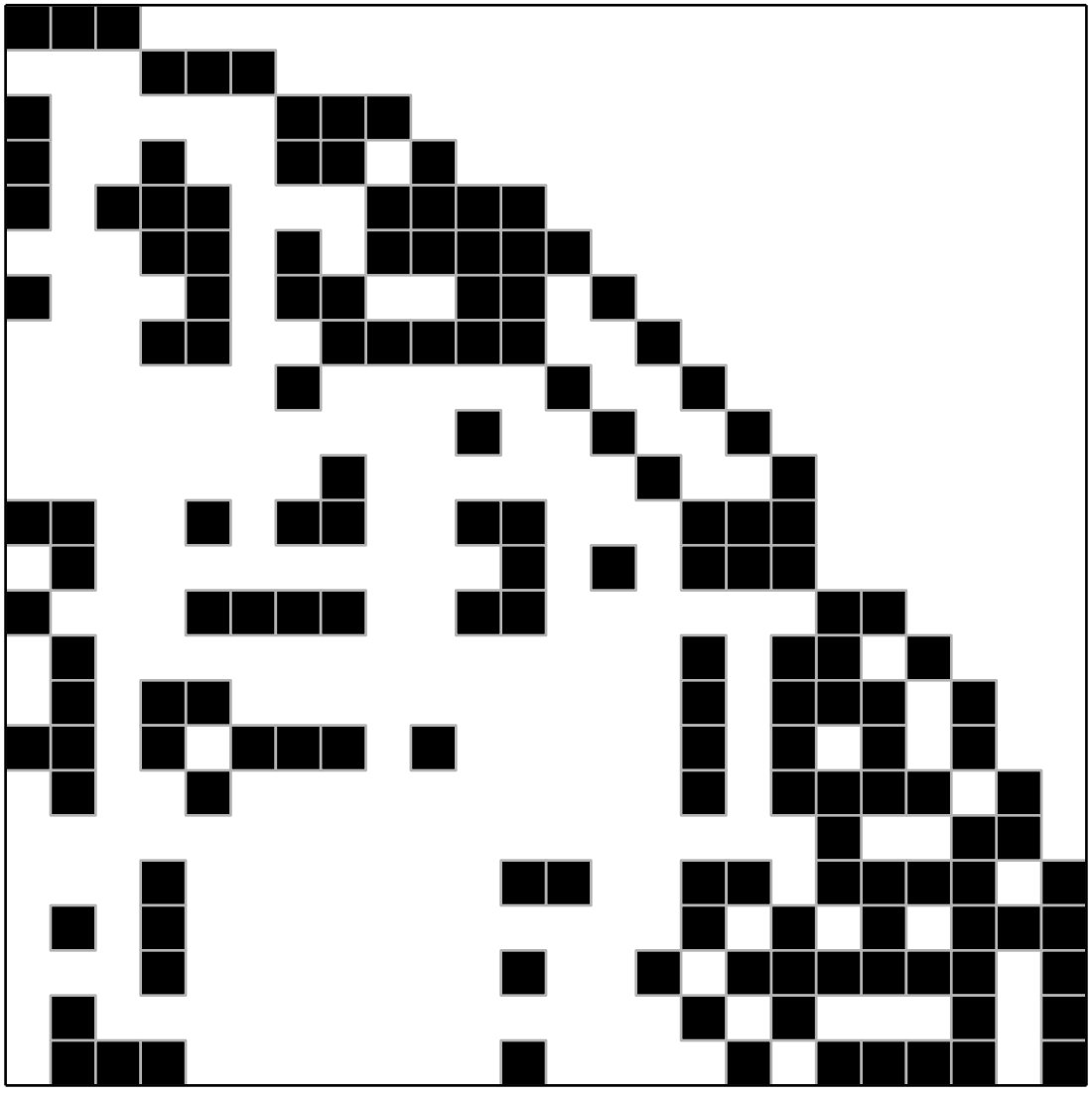


lib3_newkin-05, cost: 8, diff: 8, explored: 458, time: 0.12s

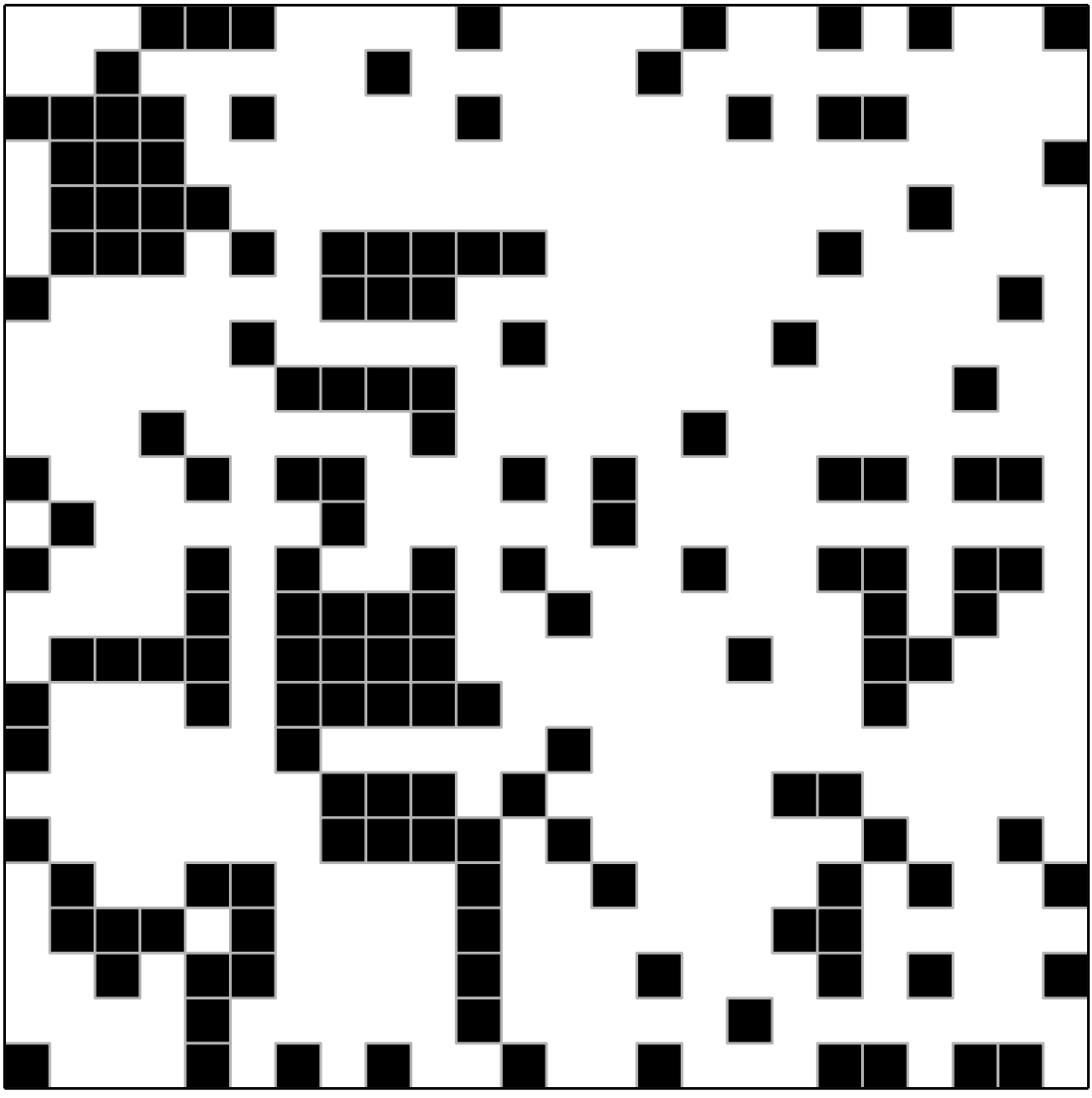


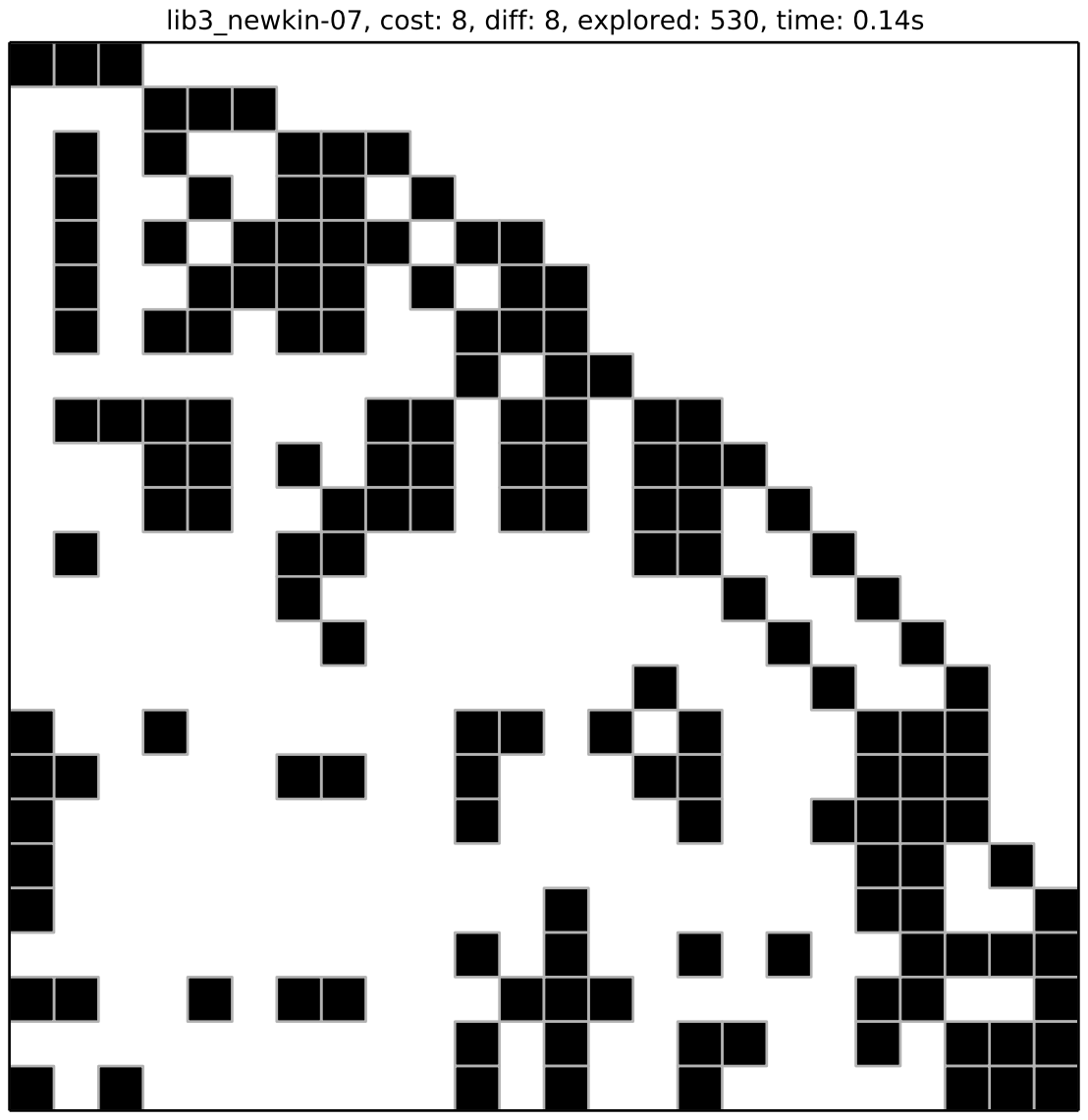
lib3_newkin-06 24x24 (158) con: 12, var: 12

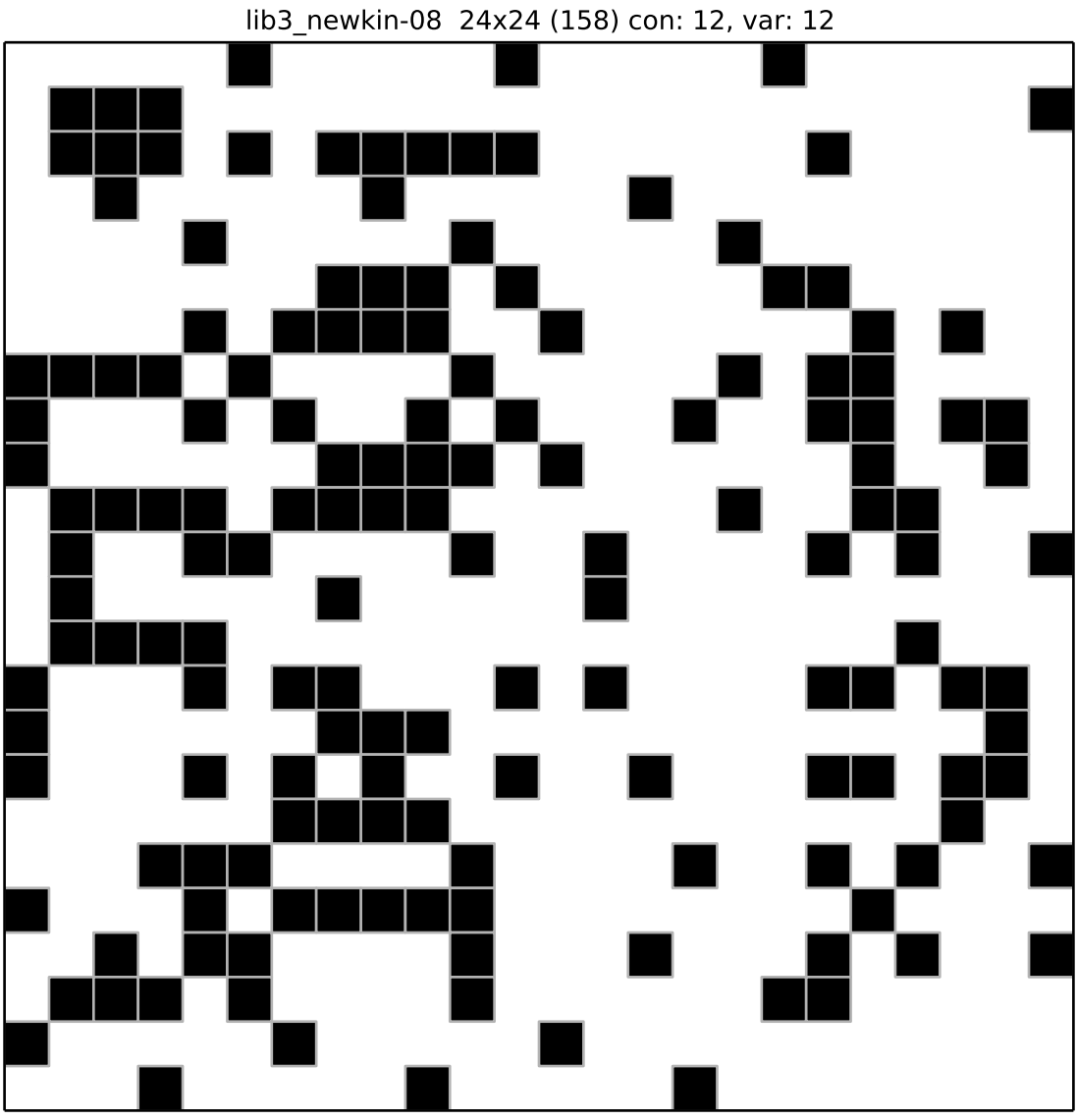


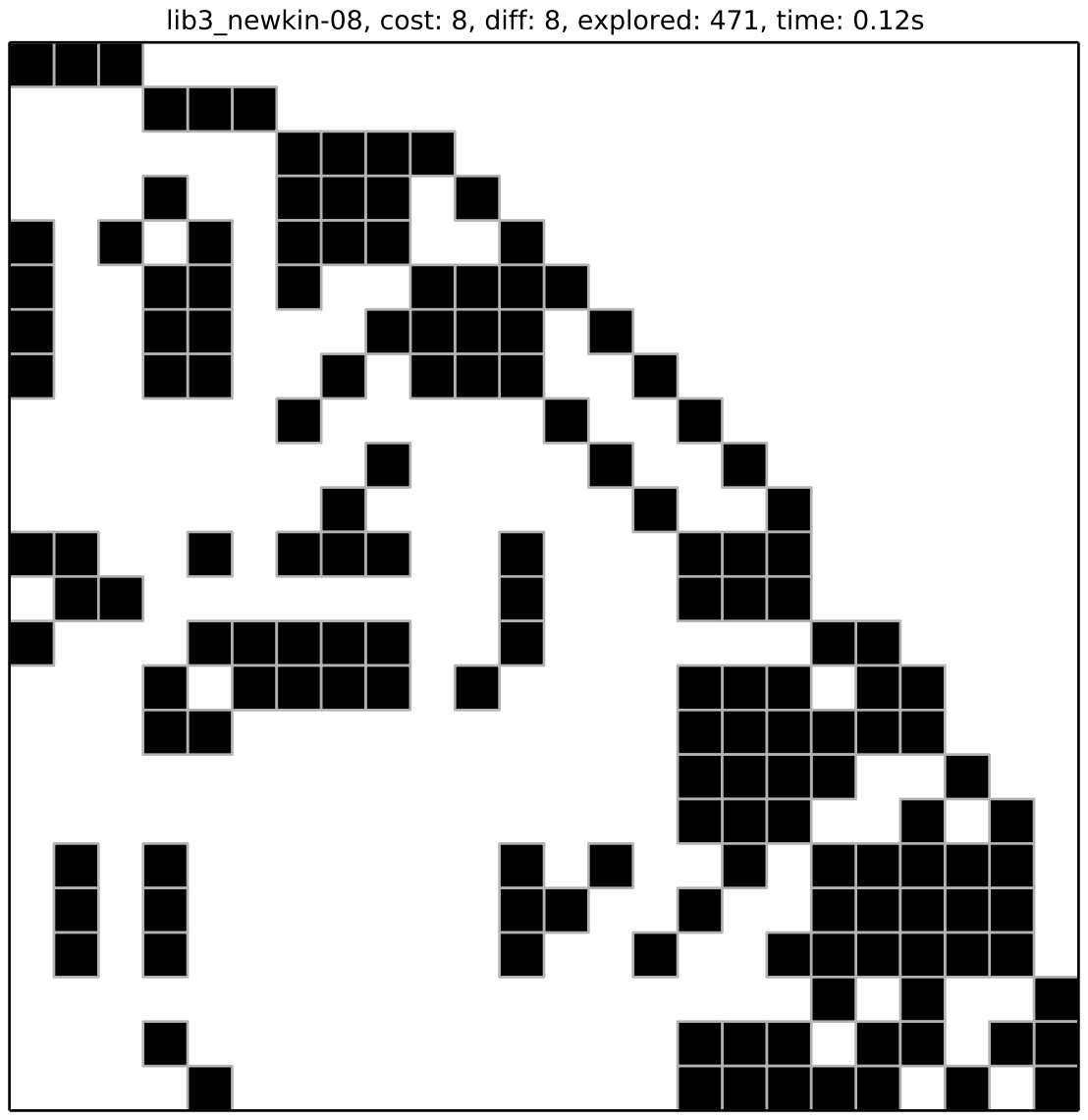

lib3_newkin-06, cost: 8, diff: 8, explored: 470, time: 0.12s

lib3_newkin-07 24x24 (158) con: 12, var: 12

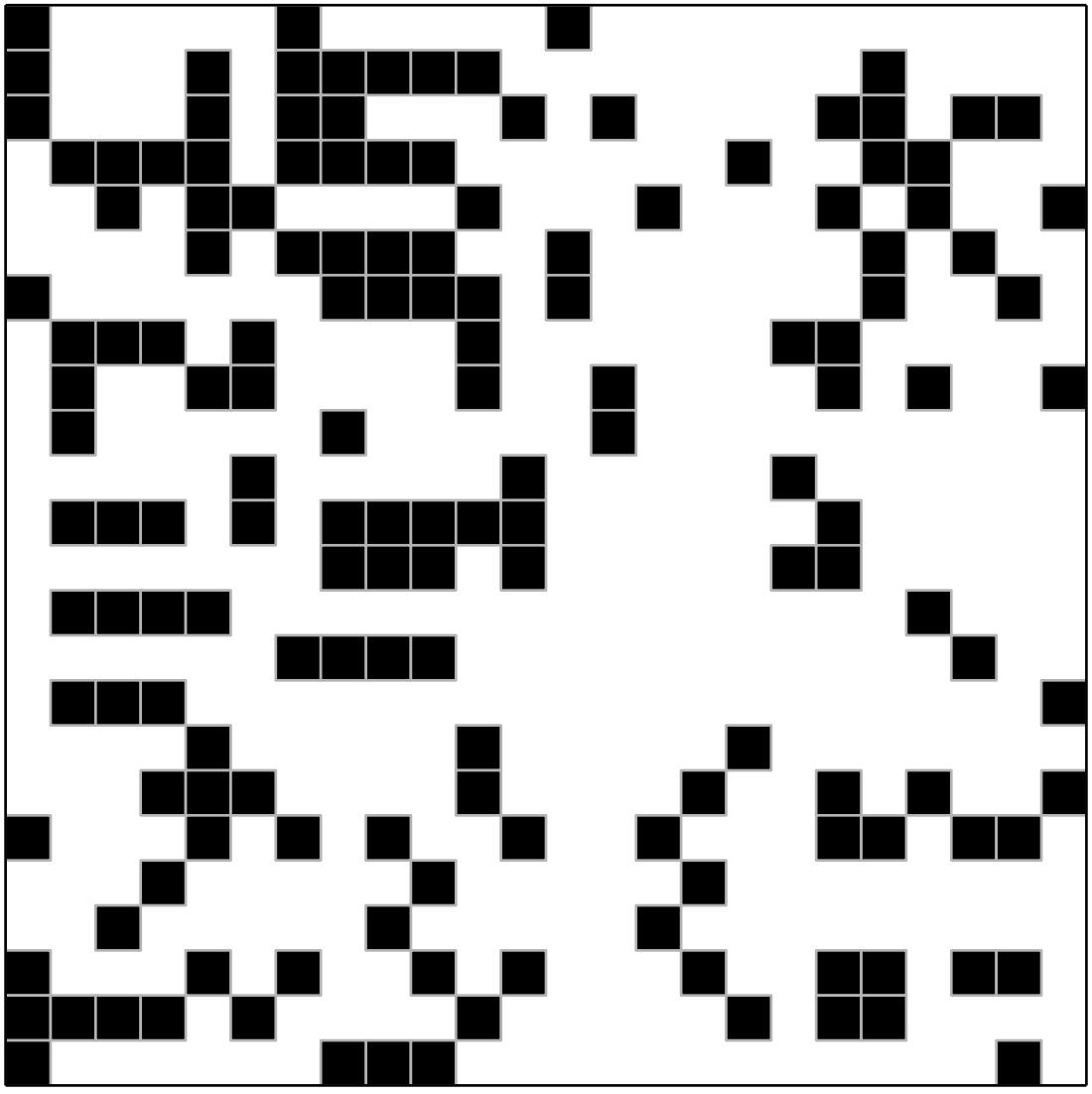


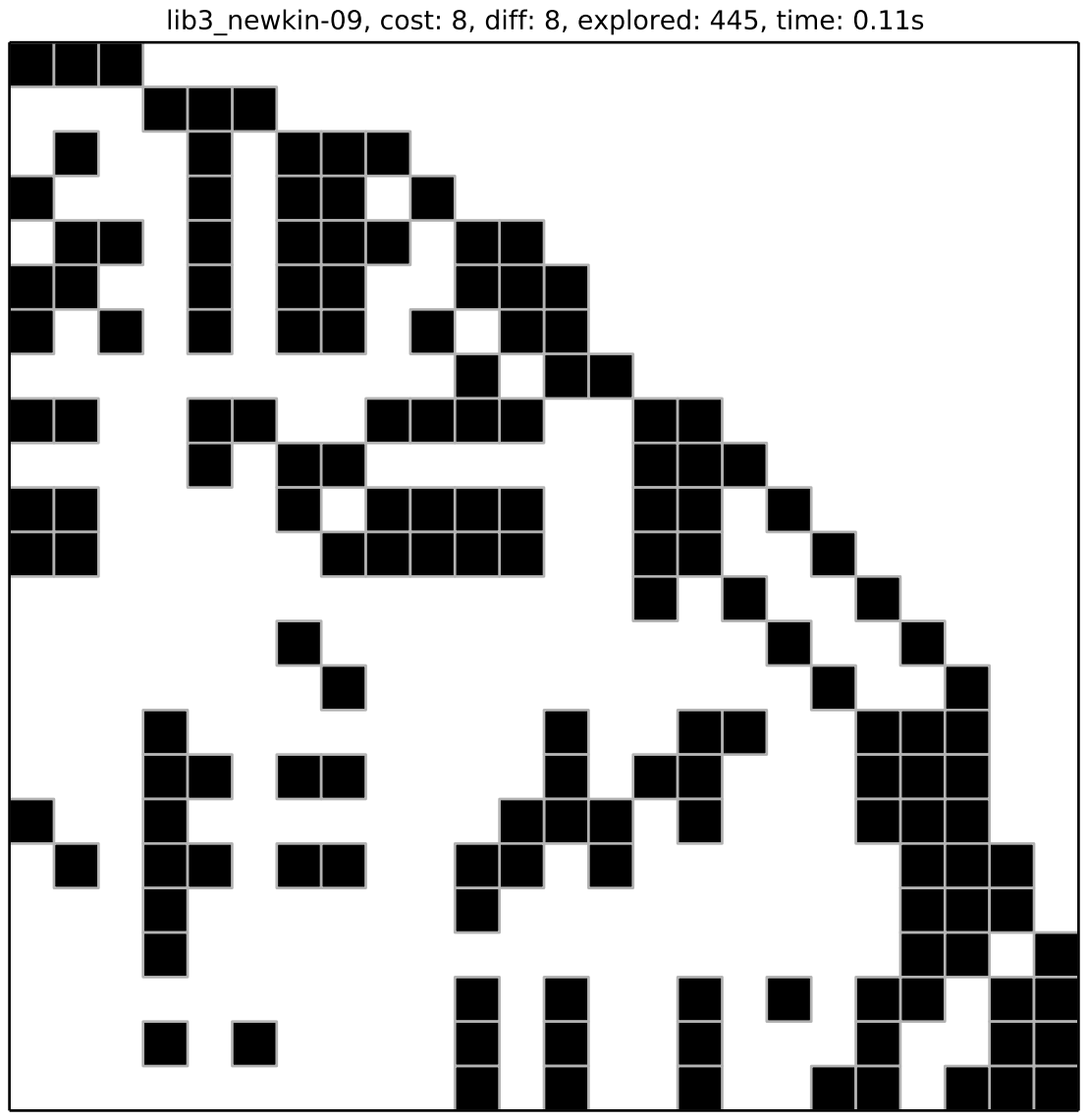

lib3_newkin-07, cost: 8, diff: 8, explored: 530, time: 0.14s

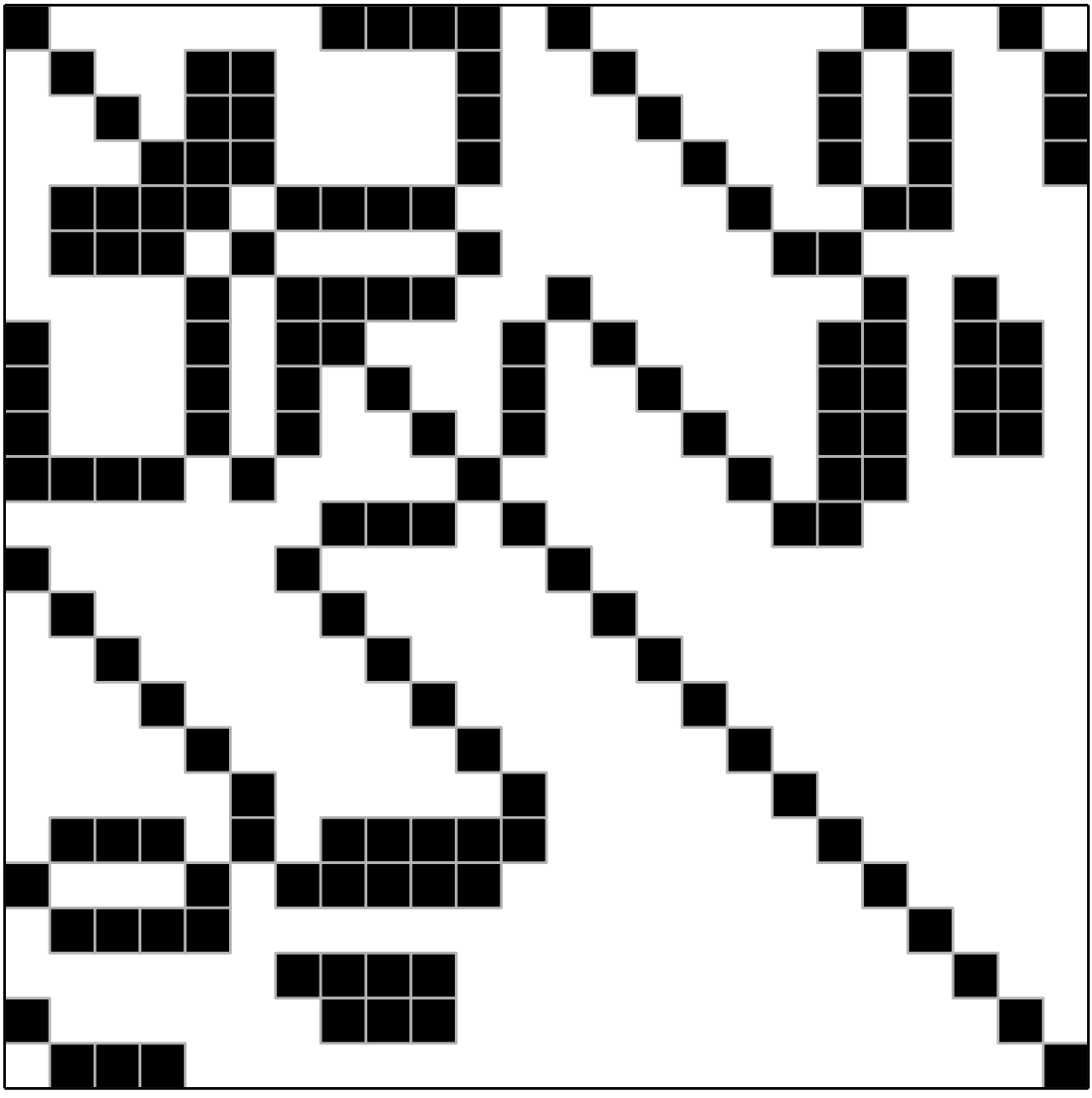

lib3_newkin-08 24x24 (158) con: 12, var: 12


lib3_newkin-08, cost: 8, diff: 8, explored: 471, time: 0.12s

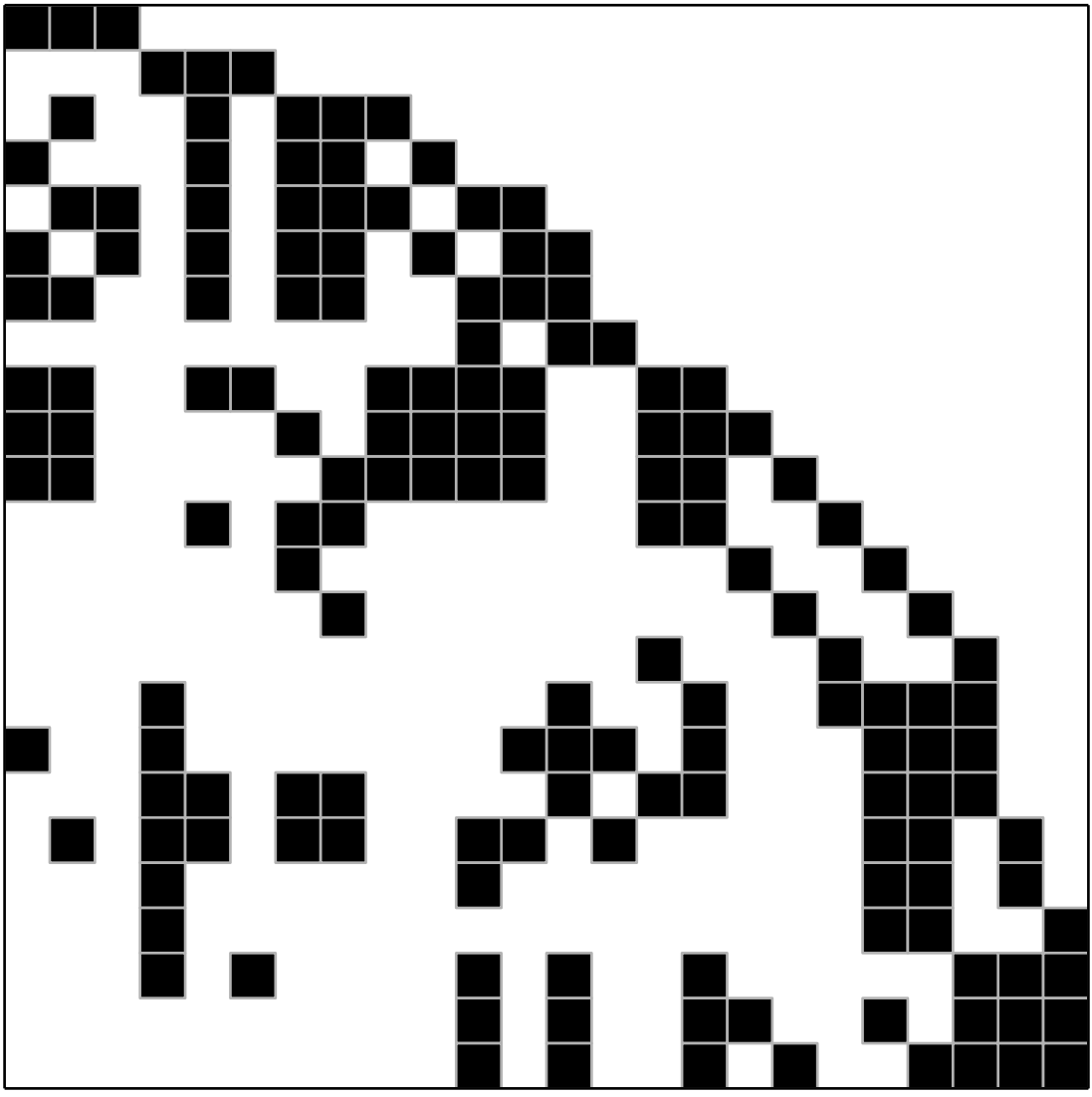
lib3_newkin-09 24x24 (158) con: 12, var: 12



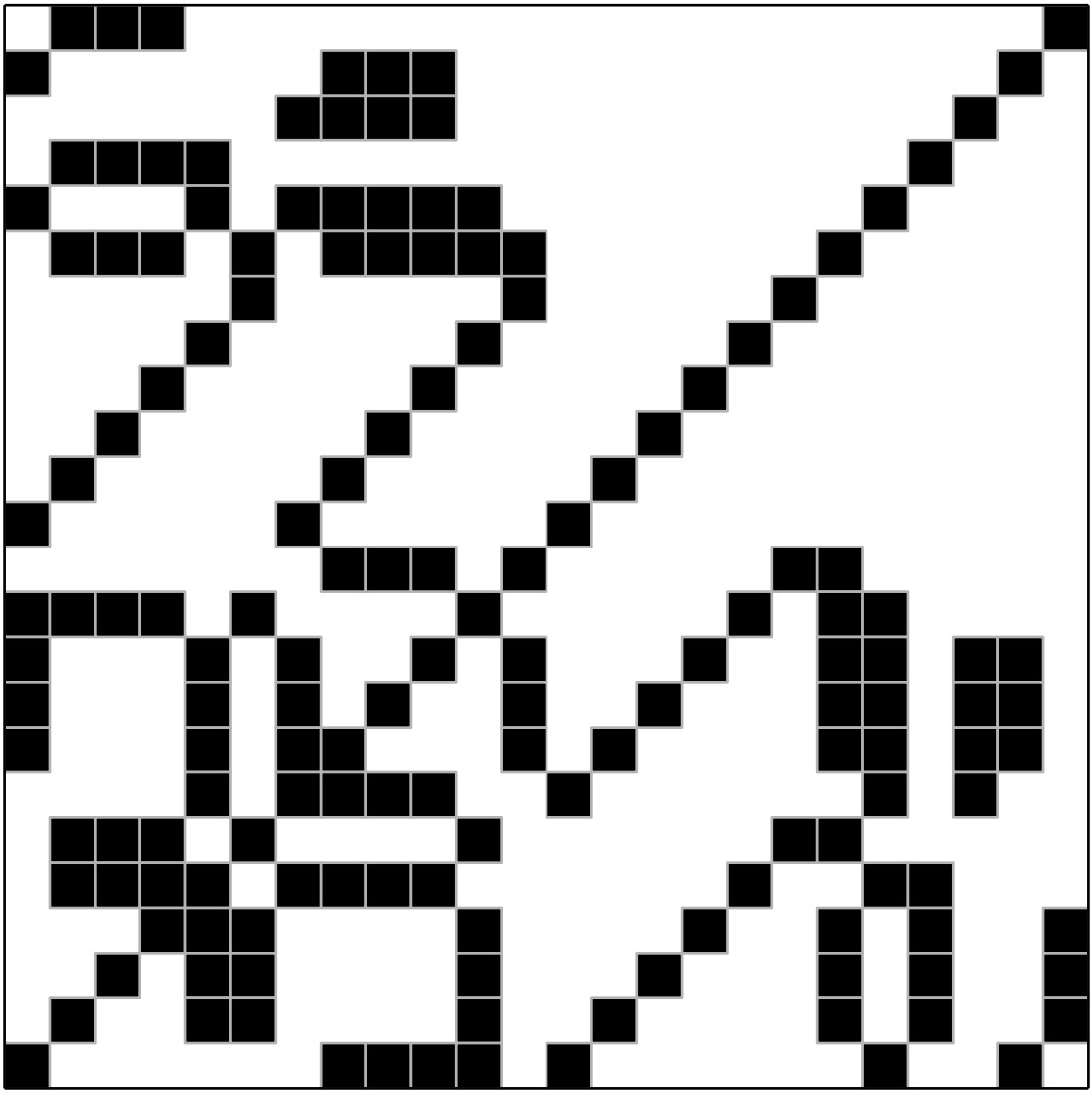

lib3_newkin-09, cost: 8, diff: 8, explored: 445, time: 0.11s

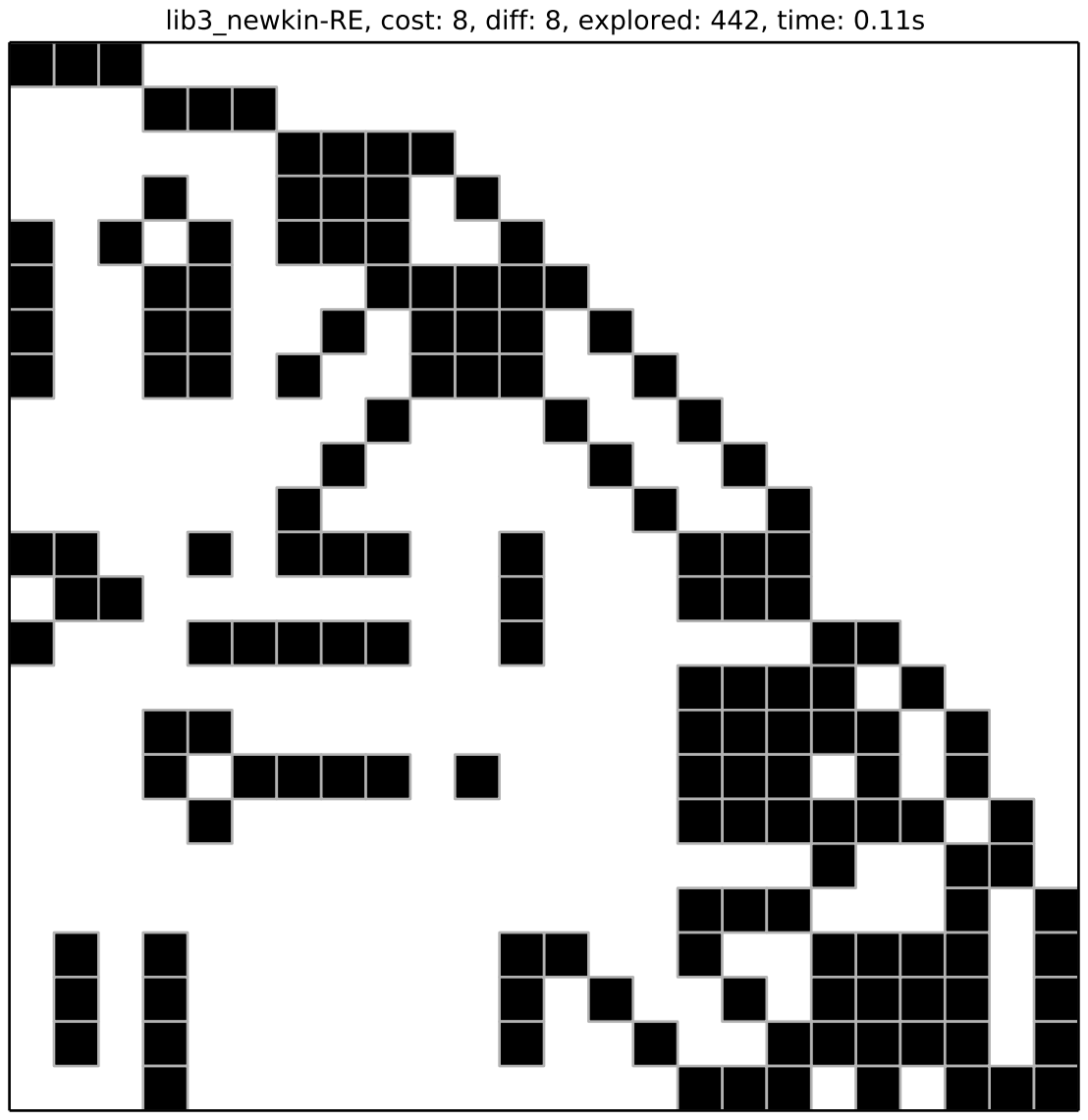

lib3_newkin-IN 24x24 (158) con: 12, var: 12

lib3_newkin-IN, cost: 8, diff: 8, explored: 443, time: 0.11s

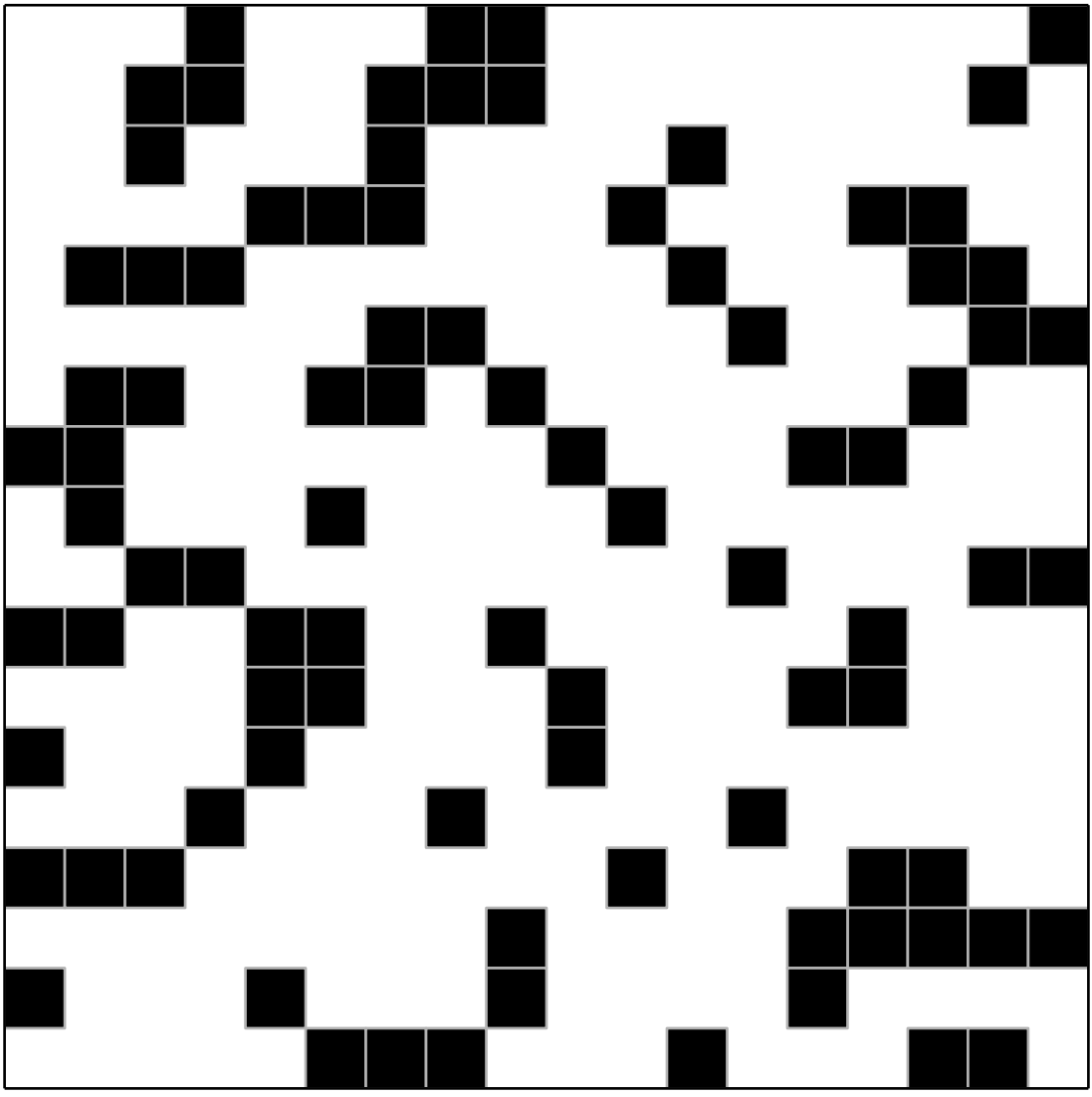


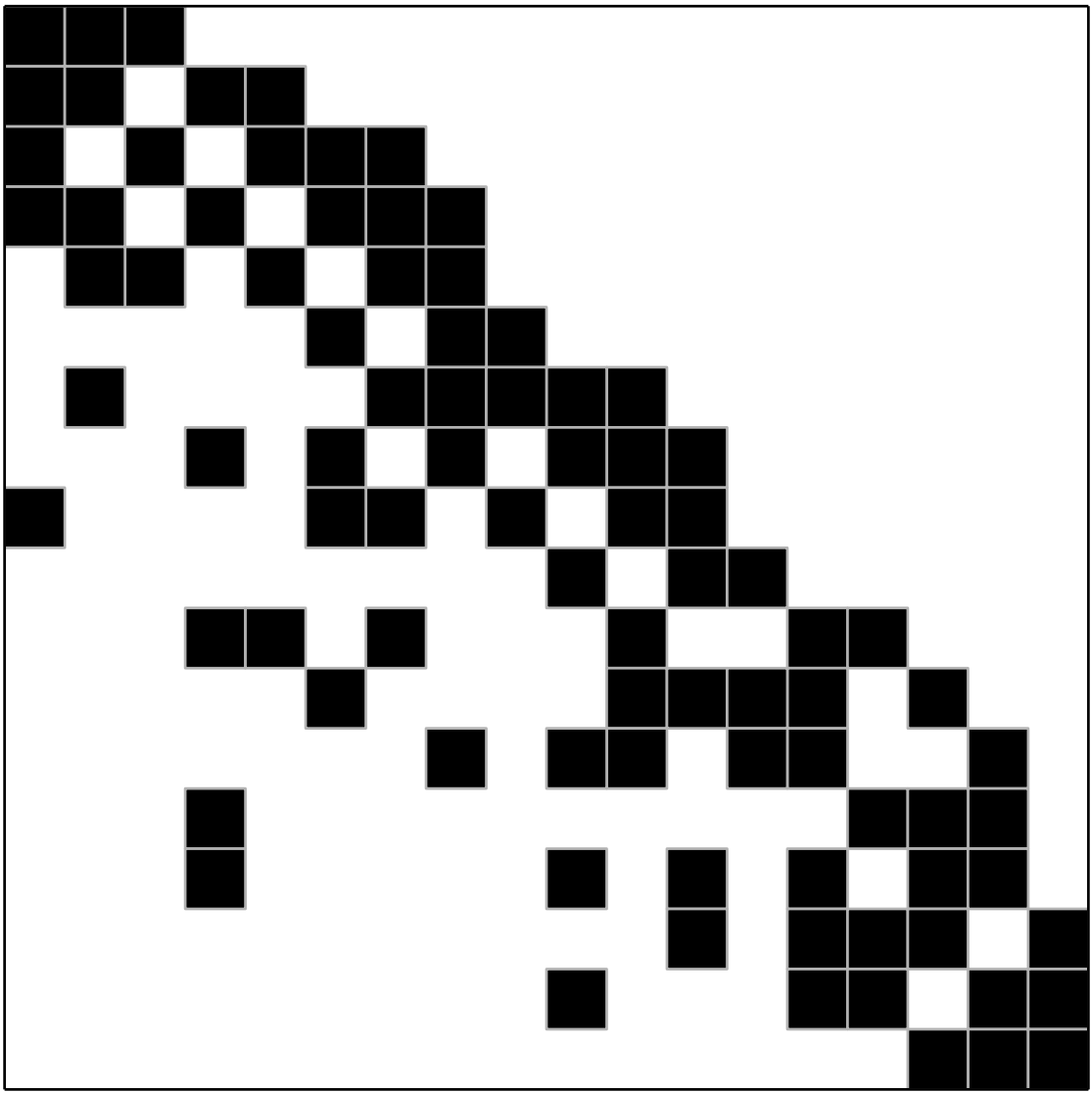
lib3_newkin-RE 24x24 (158) con: 12, var: 12



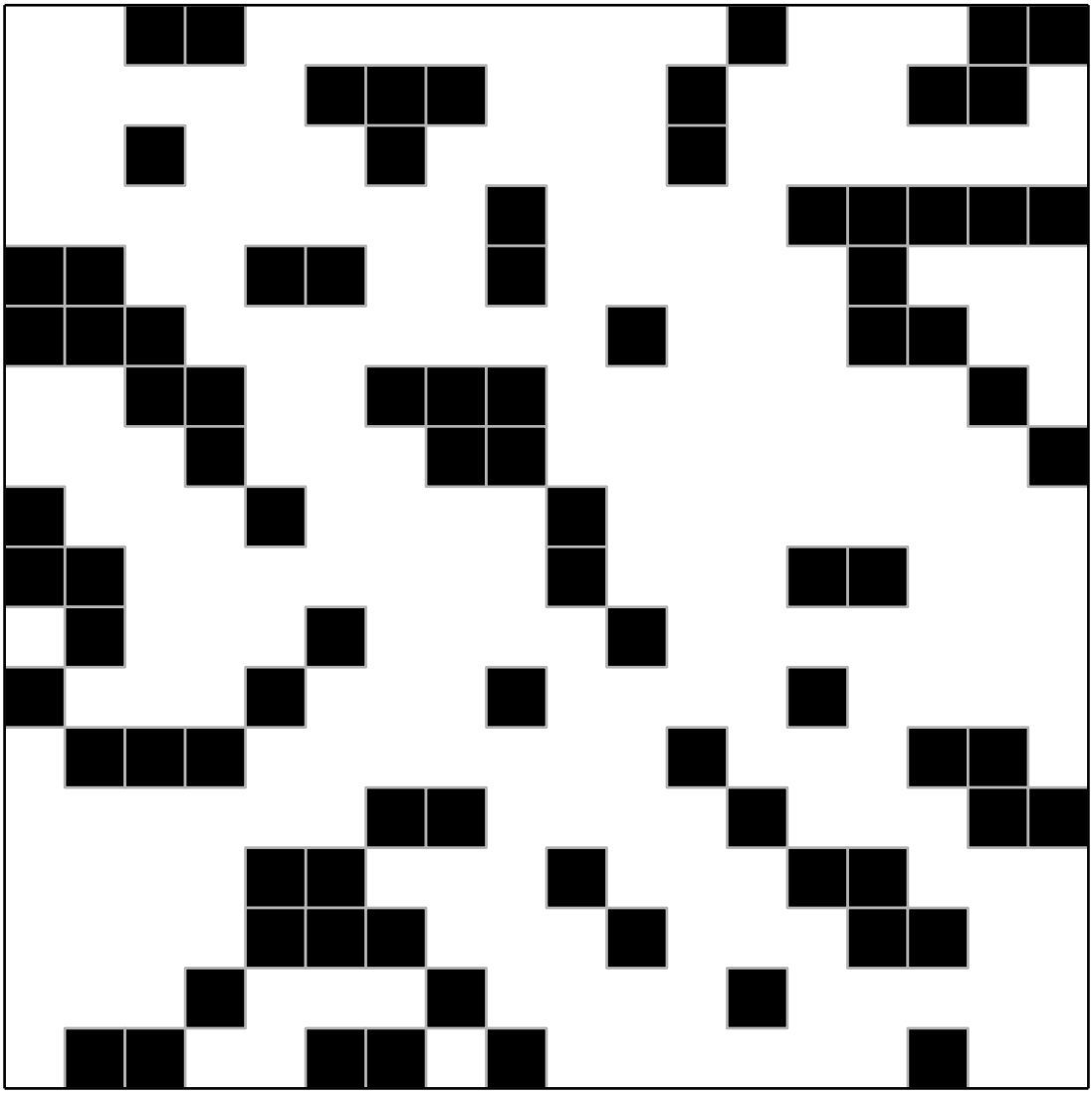

lib3_newkin-RE, cost: 8, diff: 8, explored: 442, time: 0.11s

lib3_pentagonall-00 18x18 (88) con: 9, var: 9

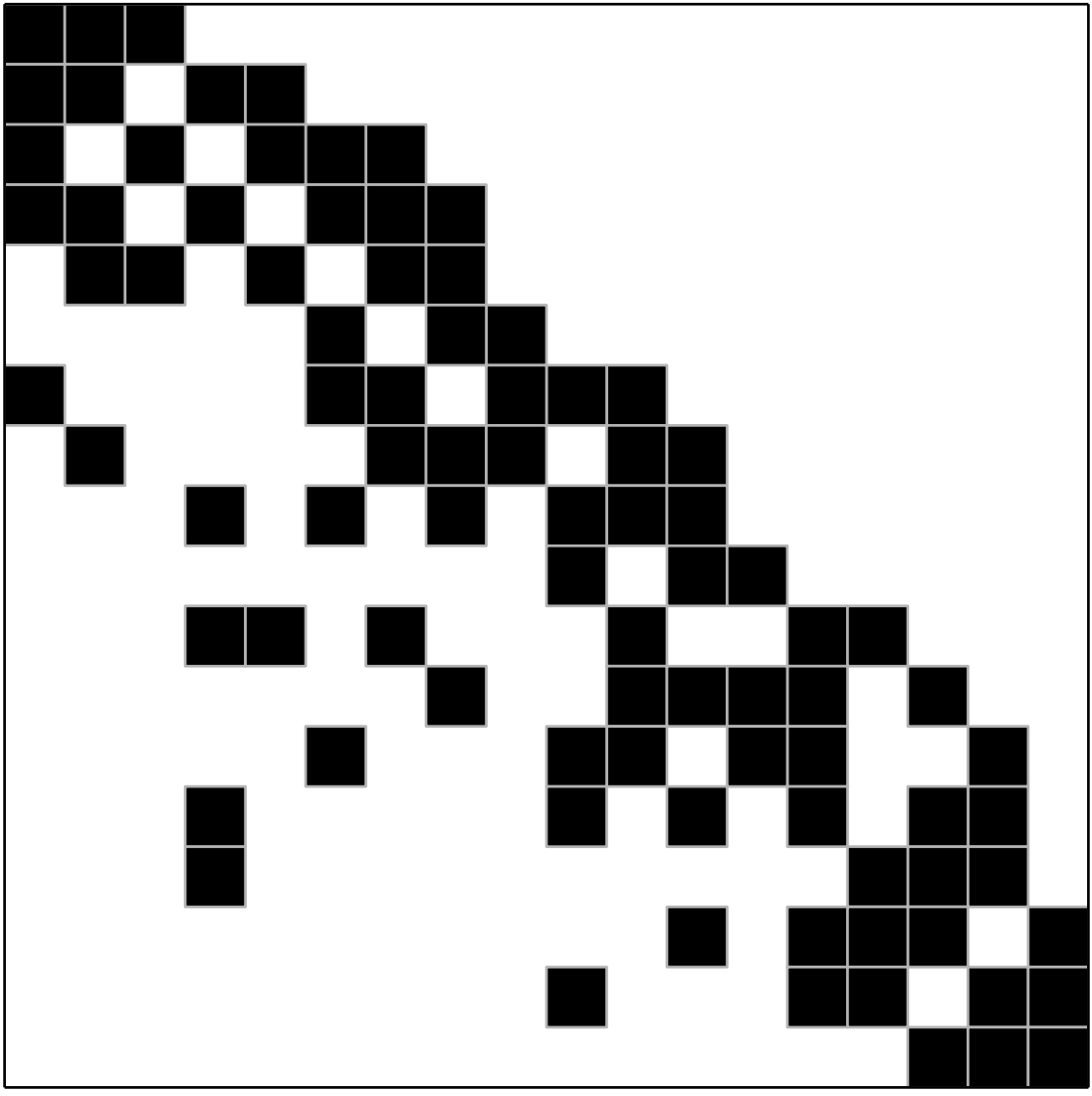



lib3_pentagonall-00, cost: 6, diff: 6, explored: 49, time: 0.01s

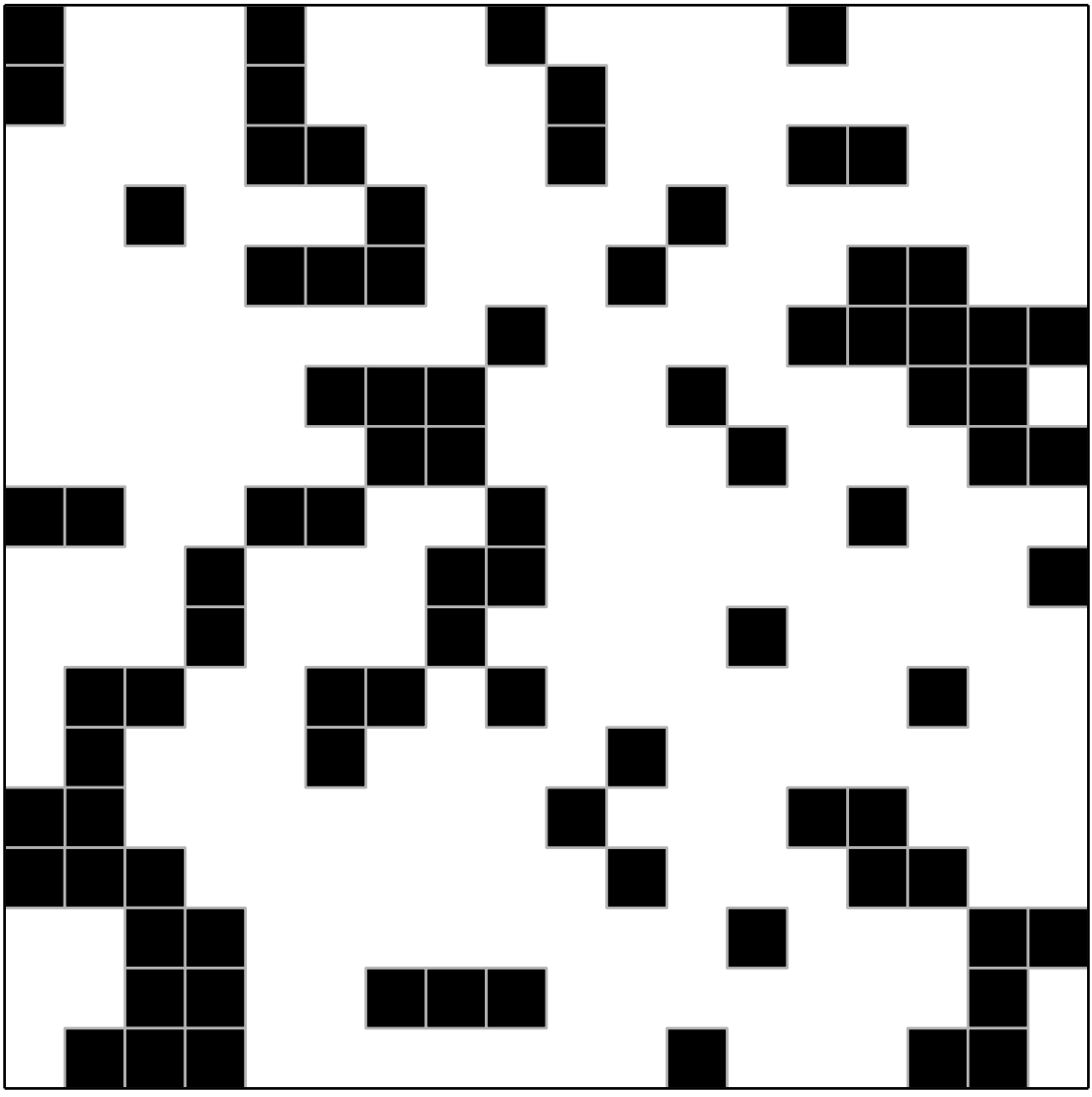
lib3_pentagonall-01 18x18 (88) con: 9, var: 9



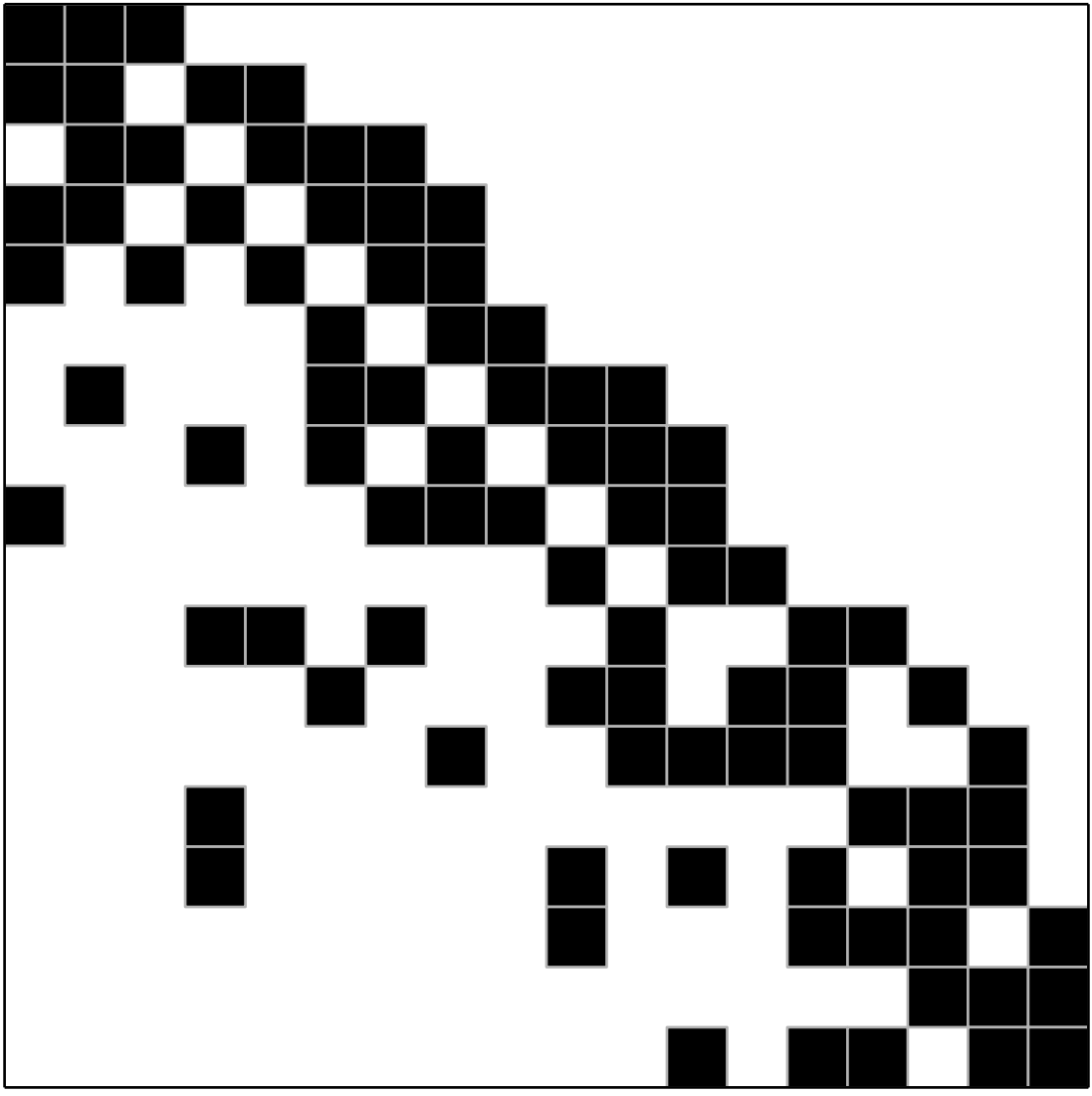
lib3_pentagonall-01, cost: 6, diff: 6, explored: 43, time: 0.01s



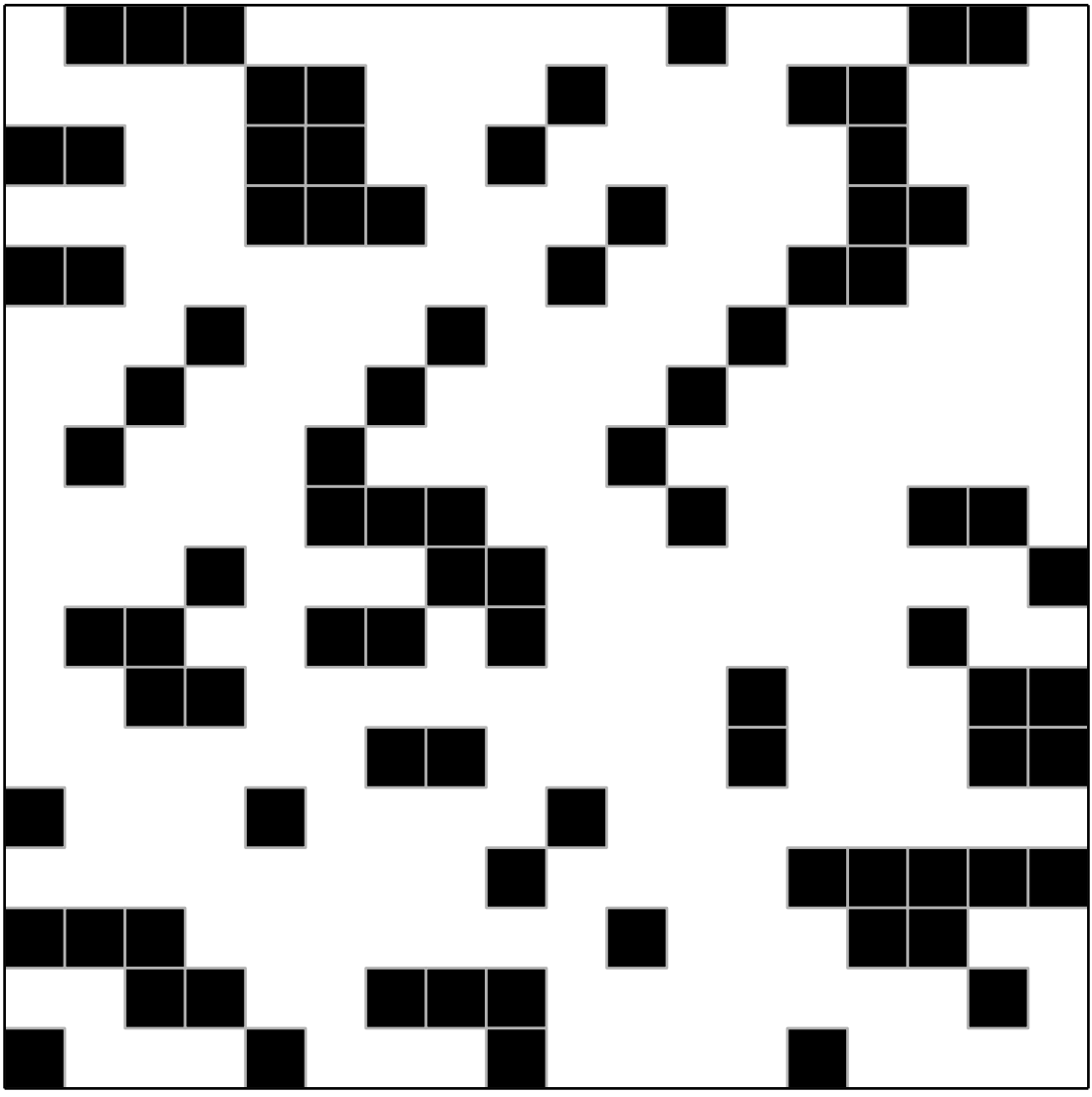
lib3_pentagonall-02 18x18 (88) con: 9, var: 9

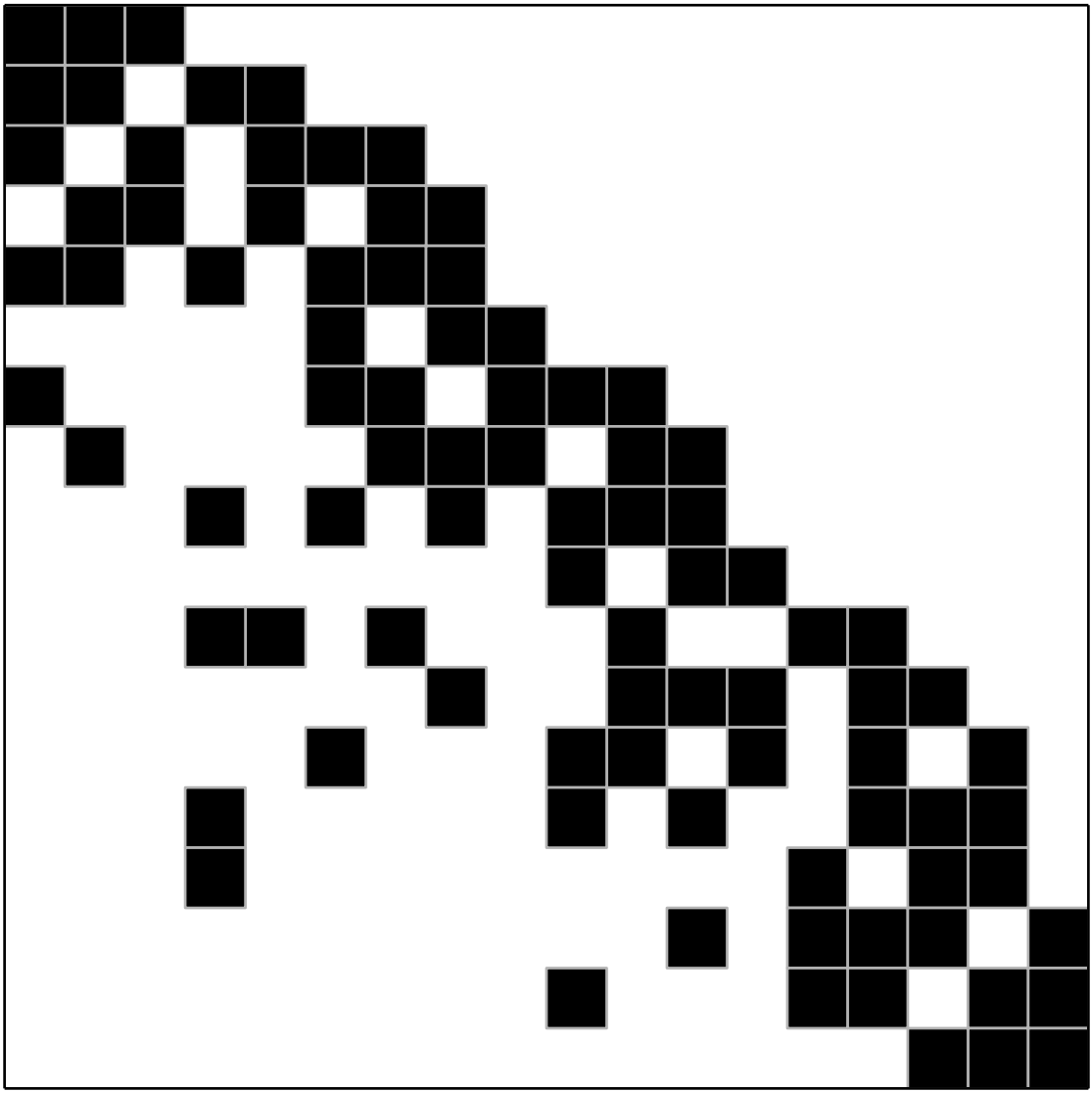


lib3_pentagonall-02, cost: 6, diff: 6, explored: 37, time: 0.01s

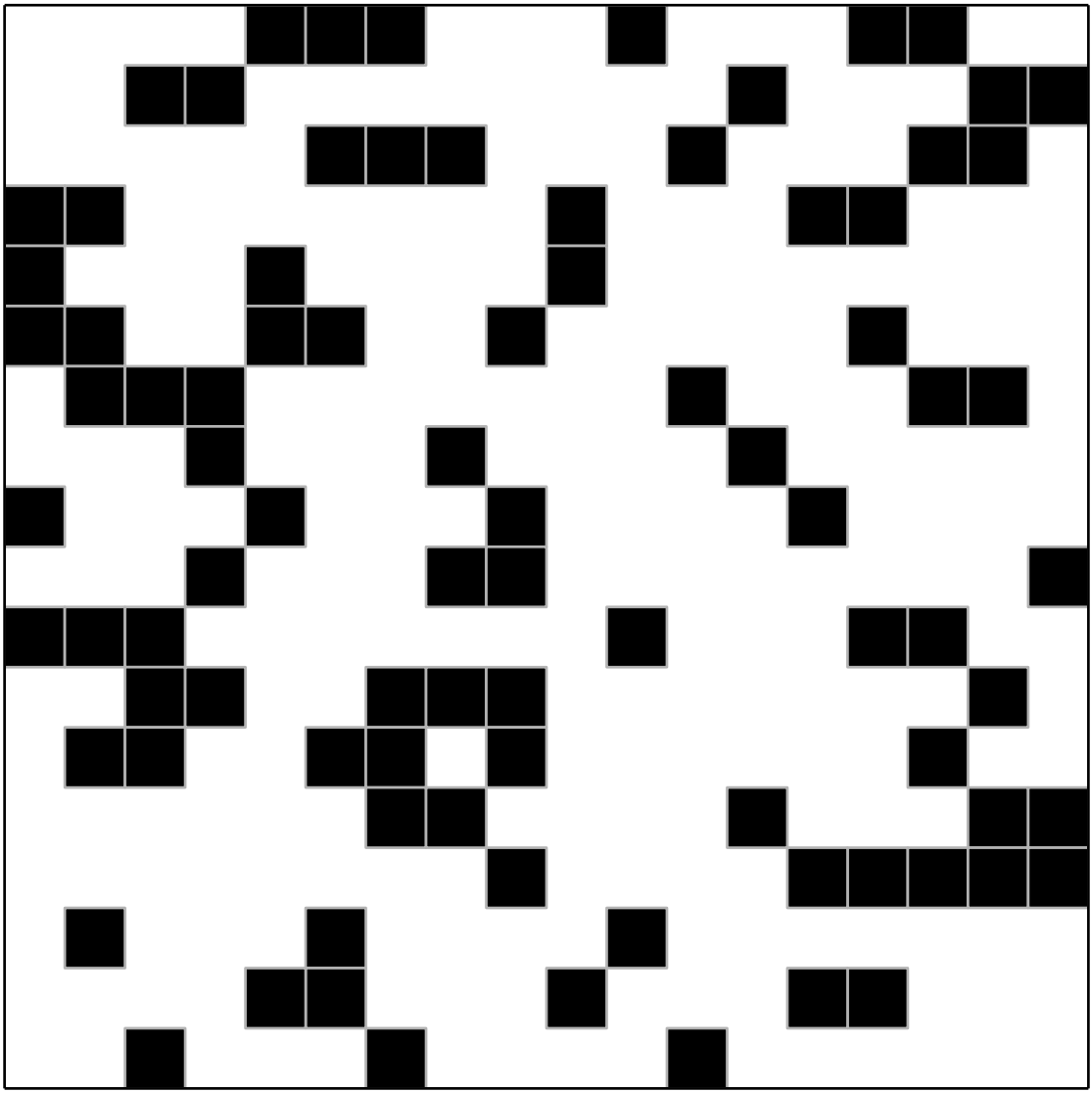


lib3_pentagonall-03 18x18 (88) con: 9, var: 9

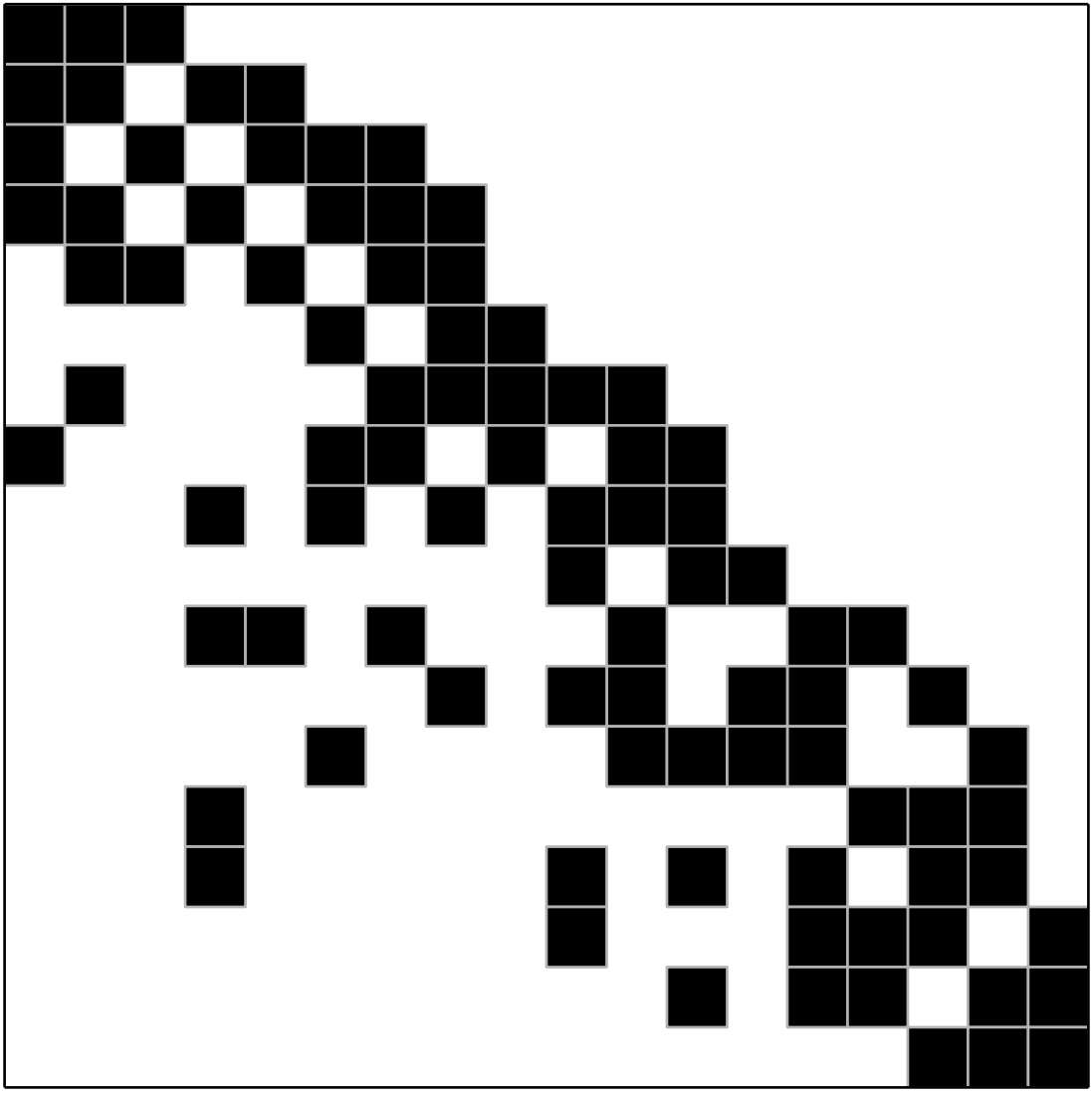



lib3_pentagonall-03, cost: 6, diff: 6, explored: 36, time: 0.01s

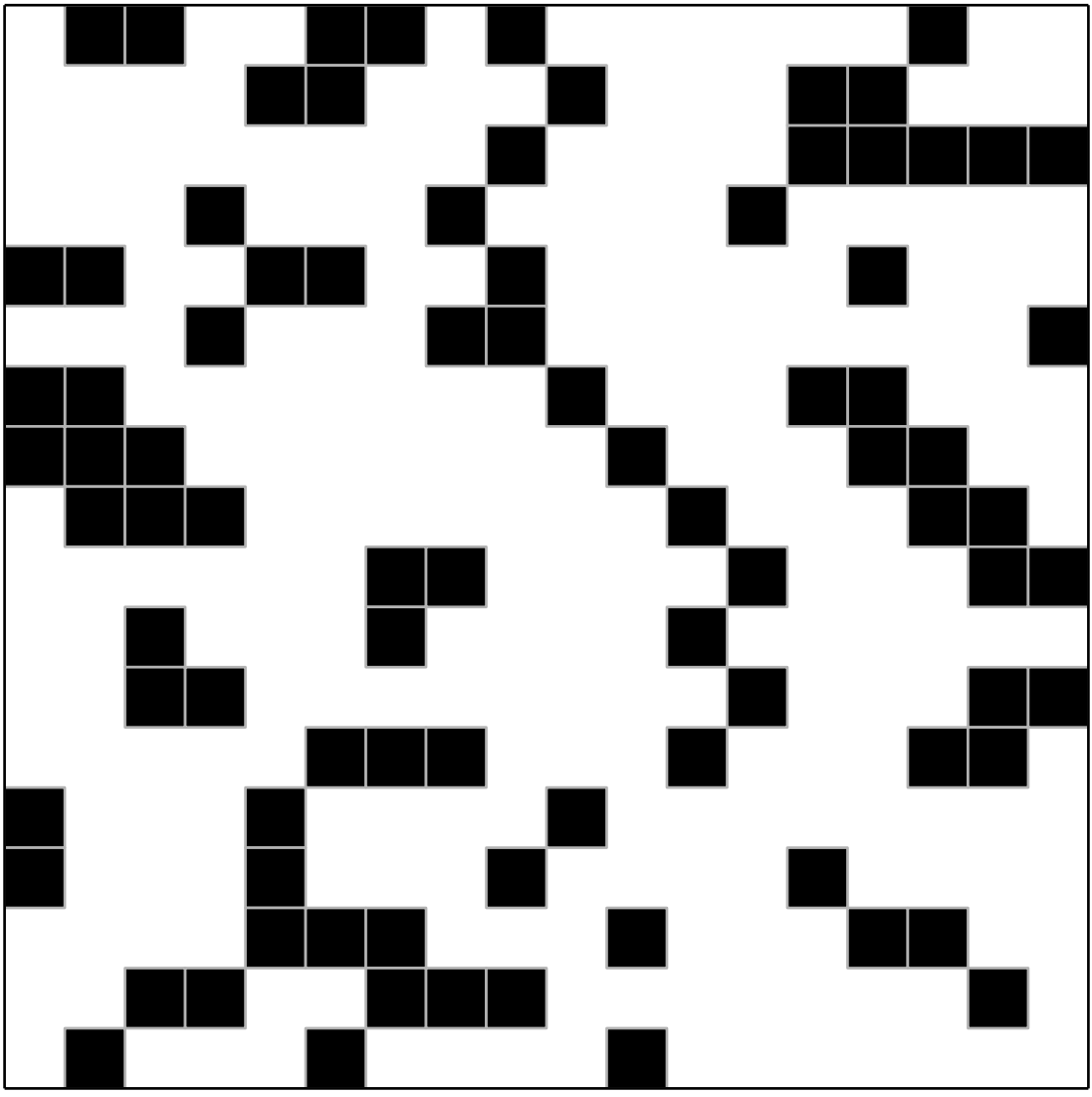
lib3_pentagonall-04 18x18 (88) con: 9, var: 9

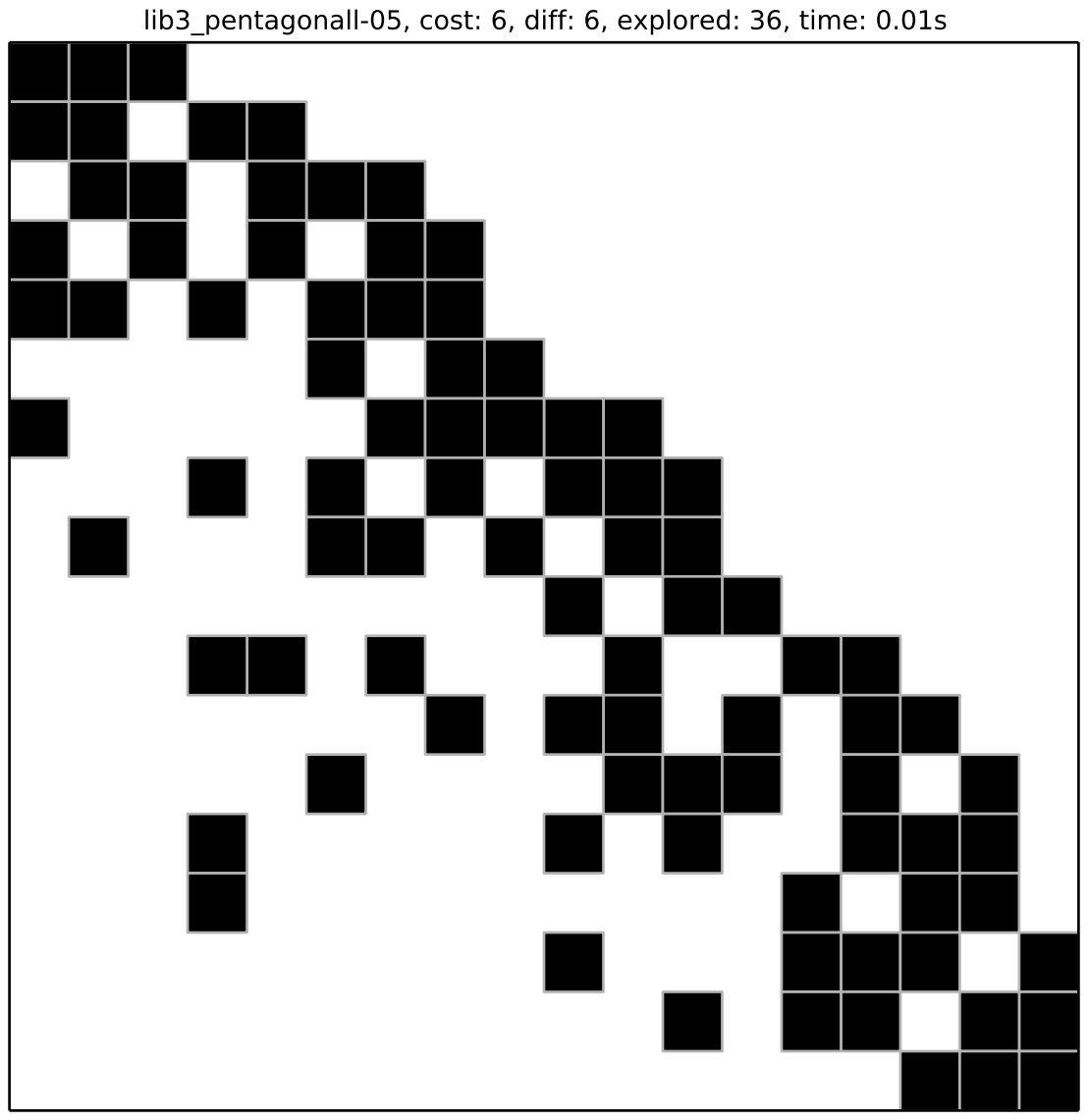


lib3_pentagonall-04, cost: 6, diff: 6, explored: 37, time: 0.01s



lib3_pentagonall-05 18x18 (88) con: 9, var: 9

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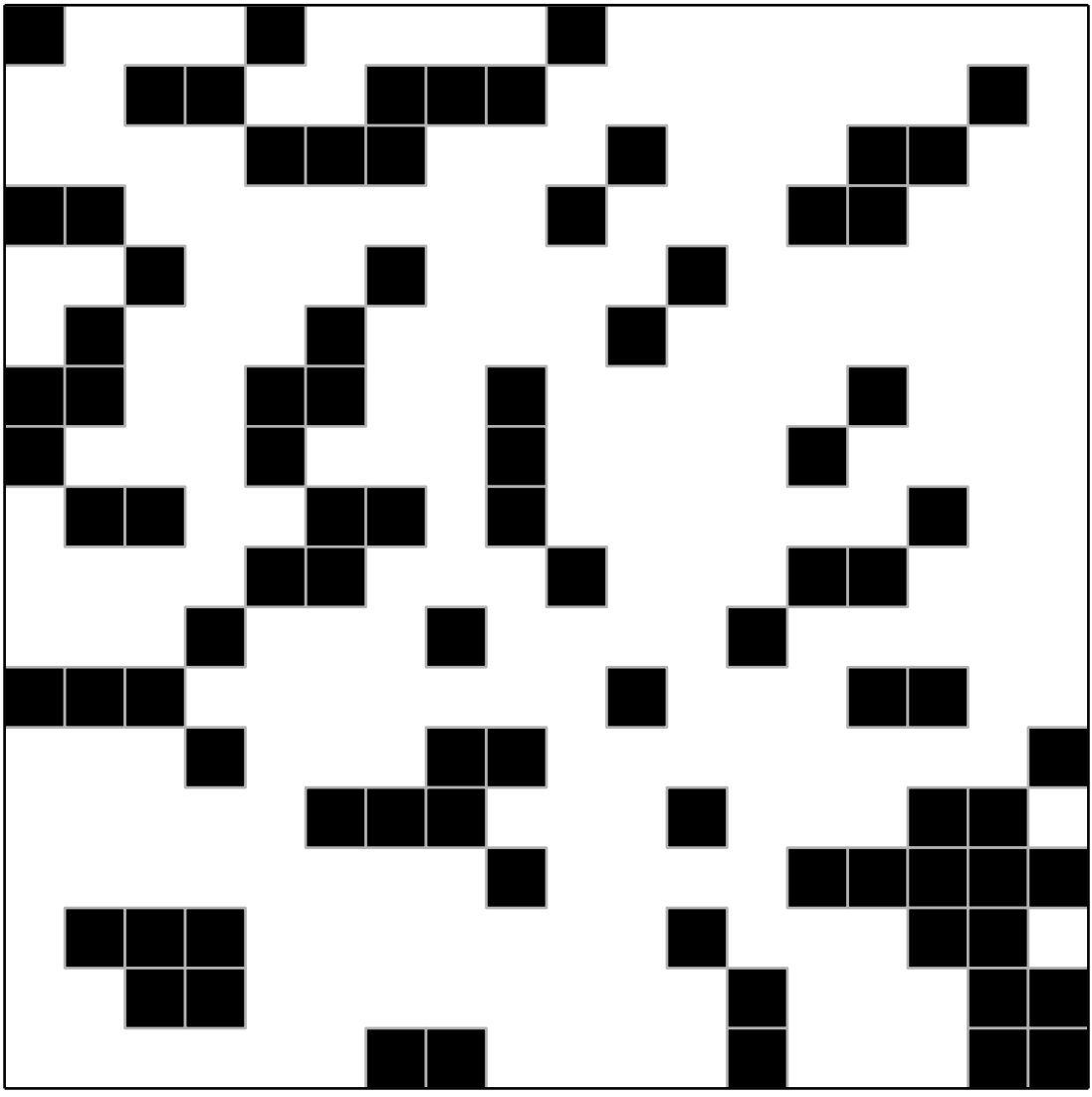
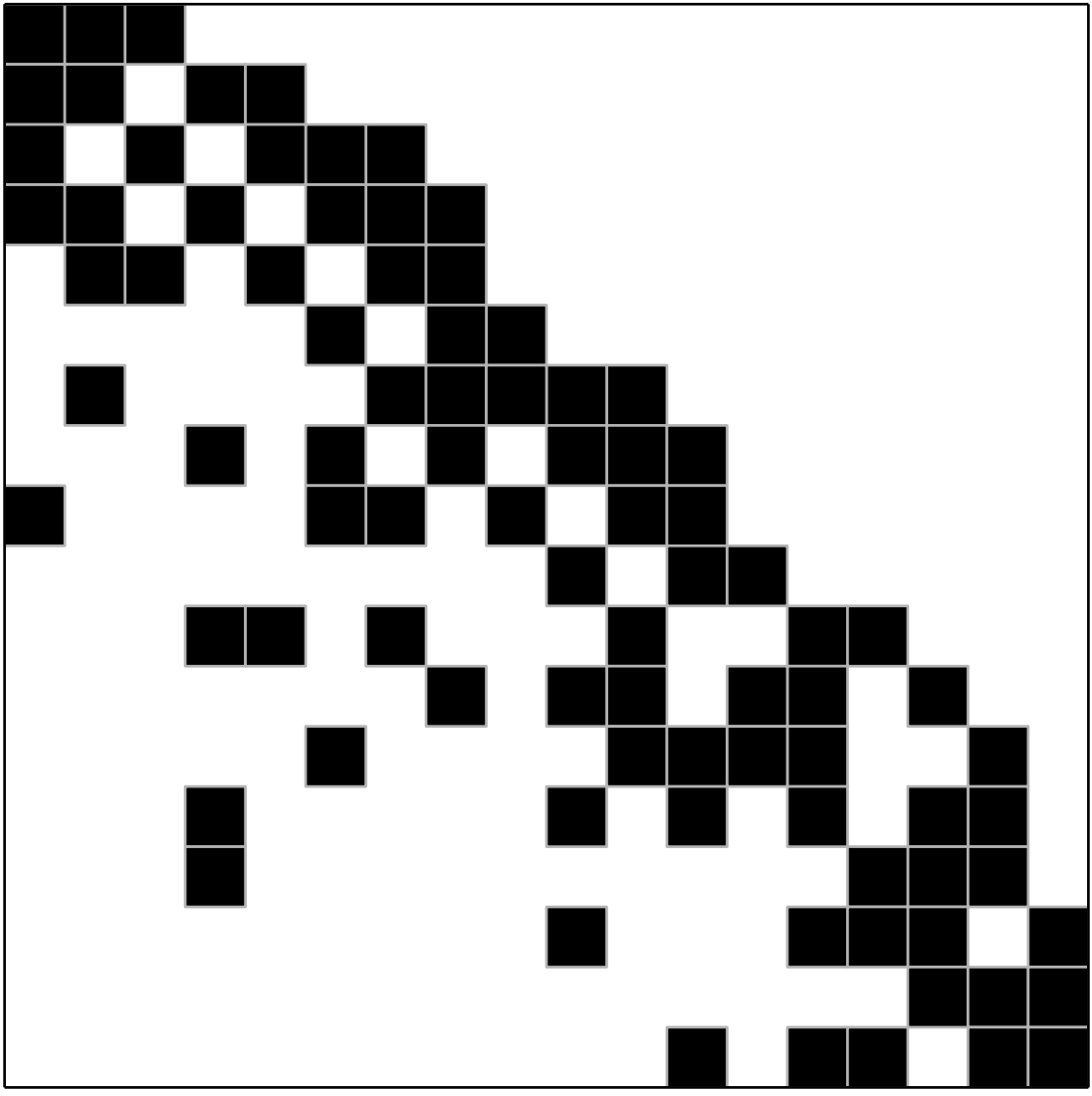
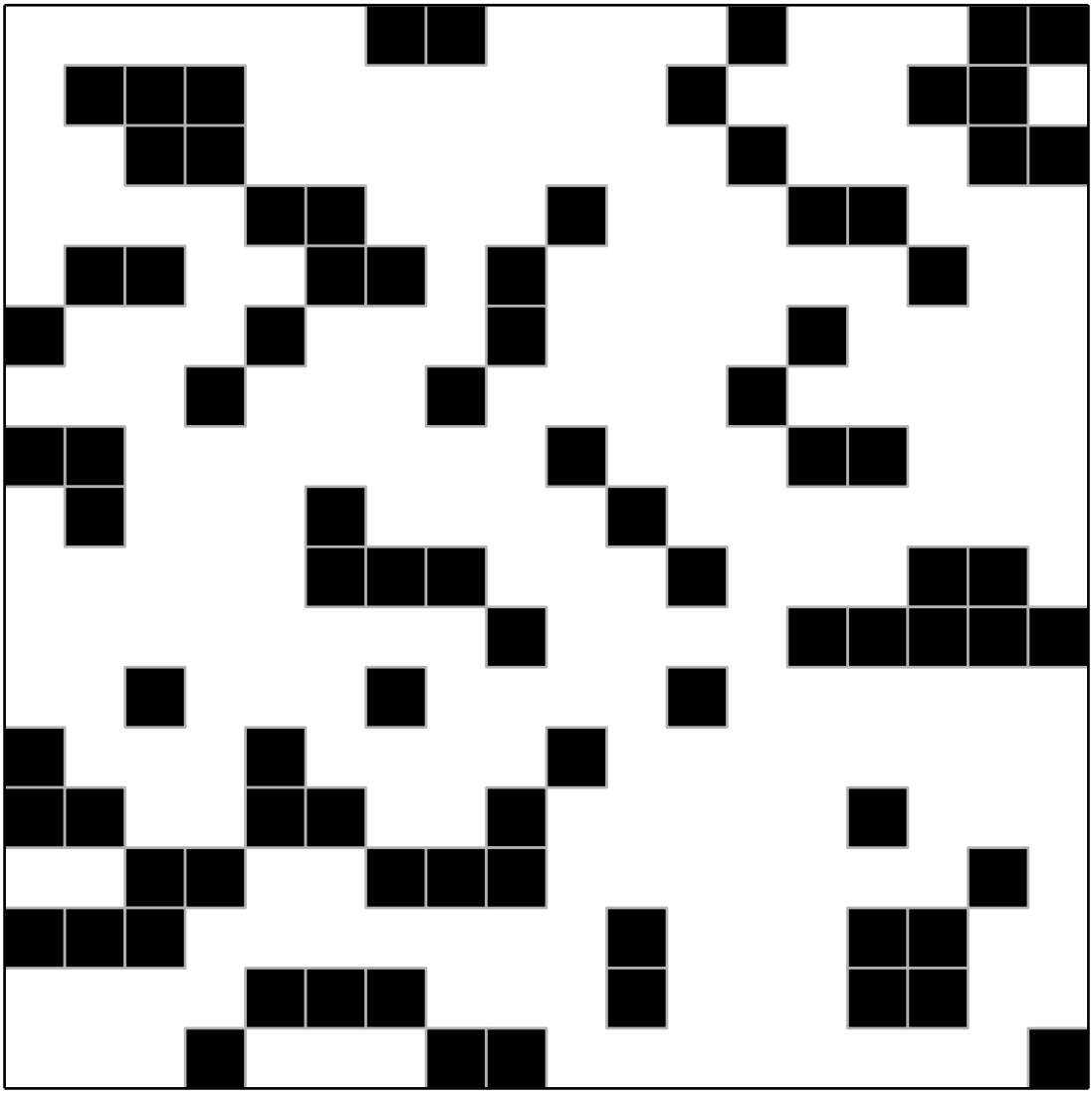
lib3_pentagonall-06 18x18 (88) con: 9, var: 9



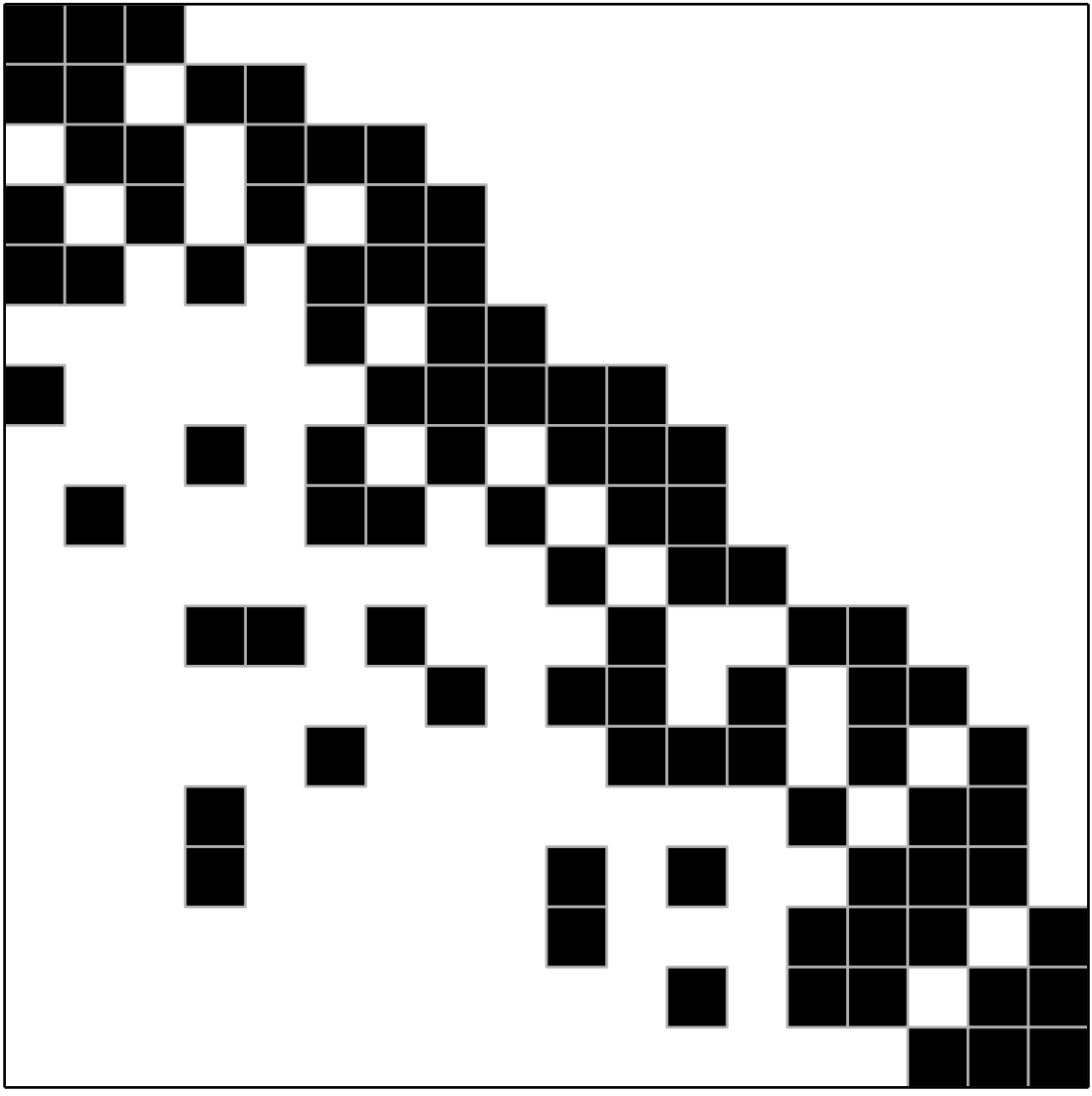
lib3_pentagonall-06, cost: 6, diff: 6, explored: 36, time: 0.01s



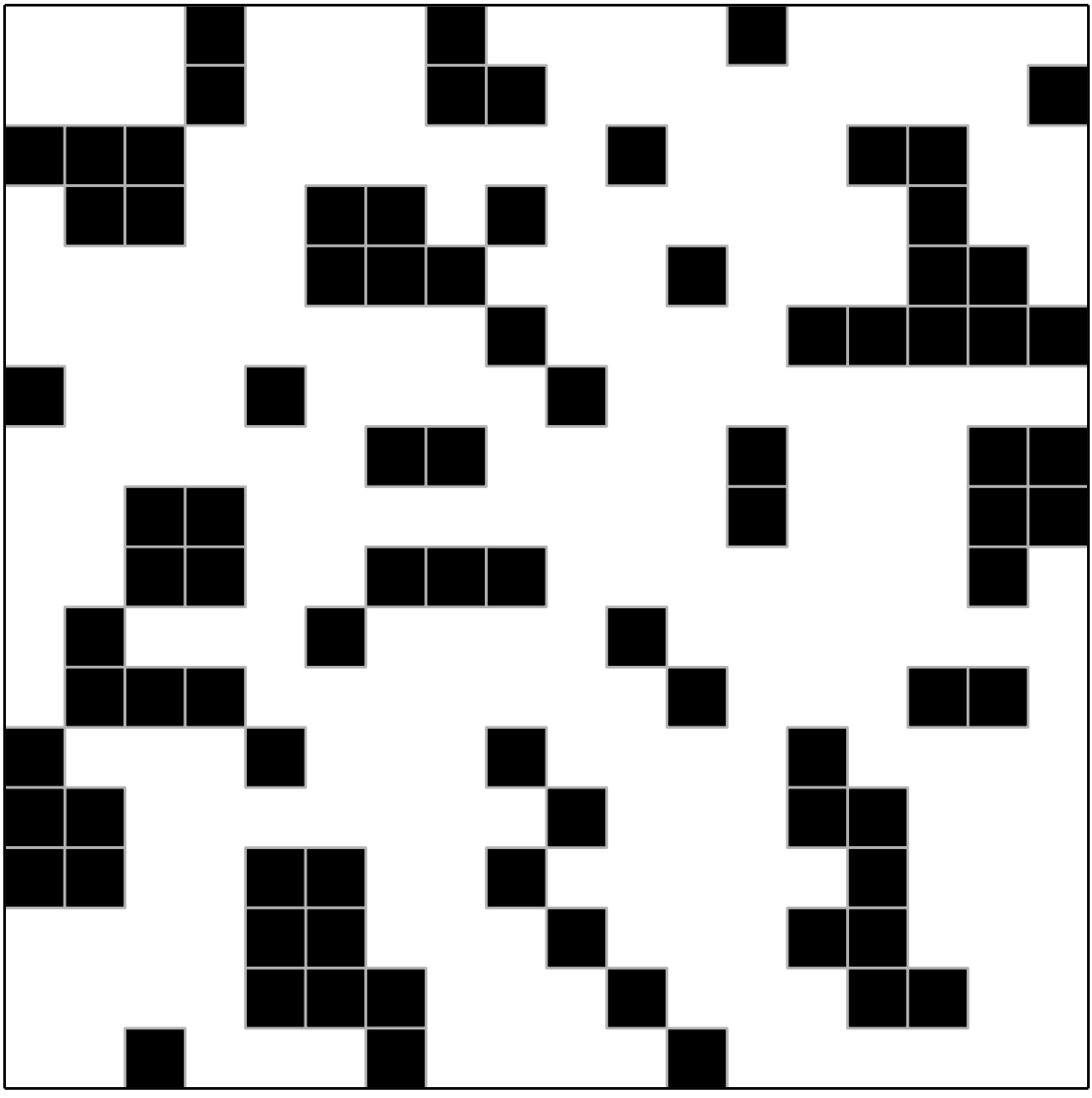
lib3_pentagonall-07 18x18 (88) con: 9, var: 9



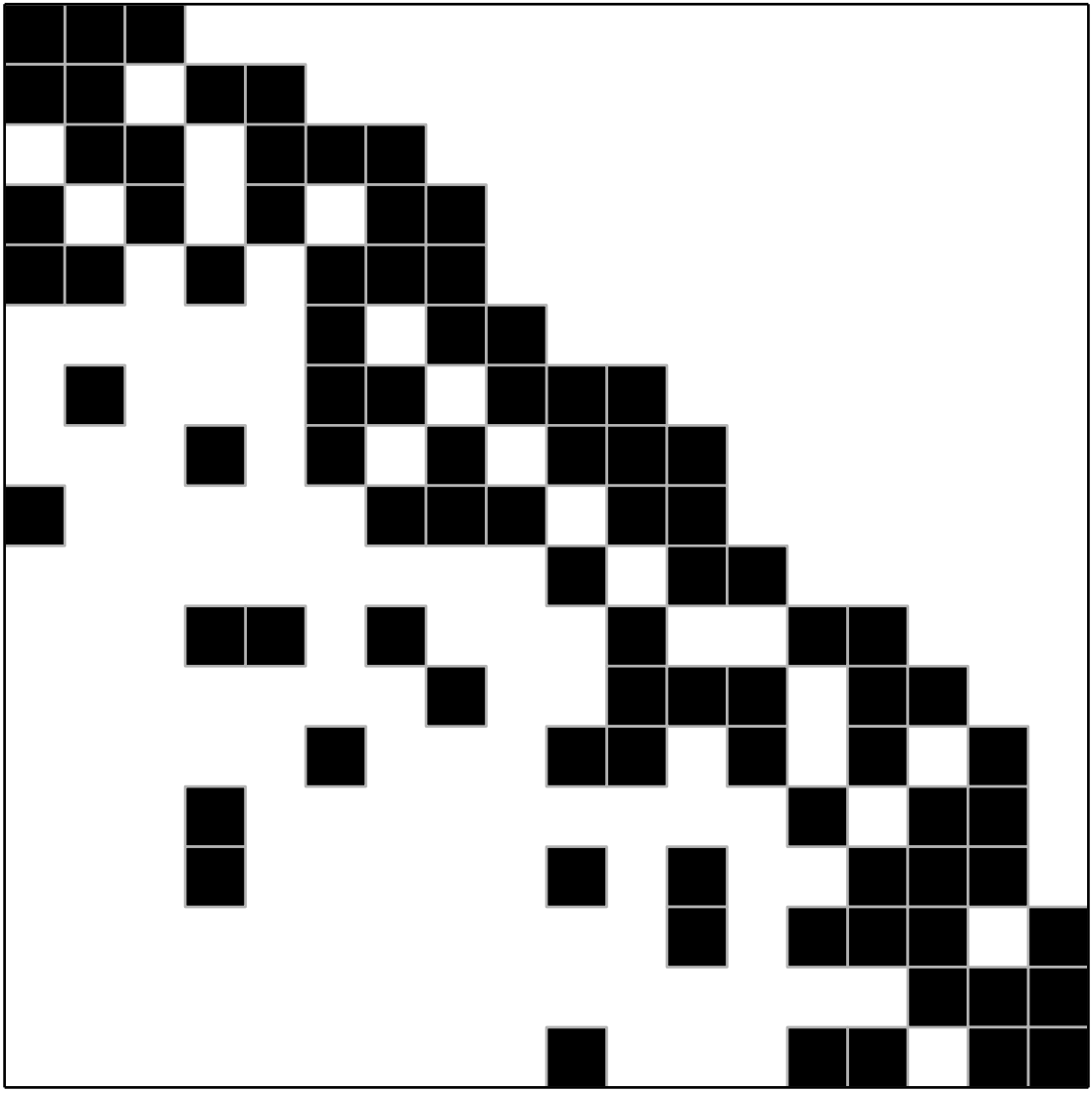
lib3_pentagonall-07, cost: 6, diff: 6, explored: 36, time: 0.01s



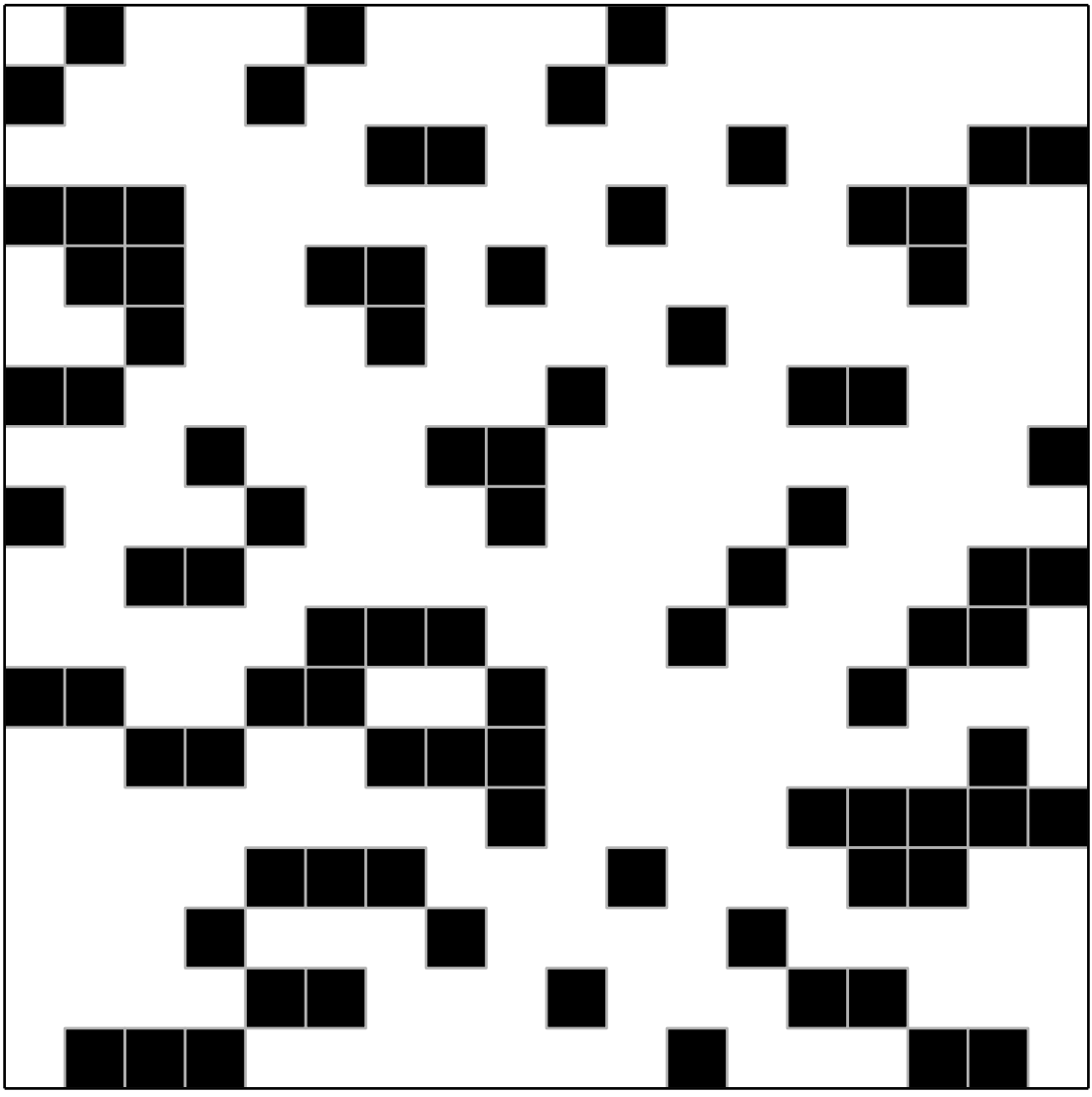
lib3_pentagonall-08 18x18 (88) con: 9, var: 9

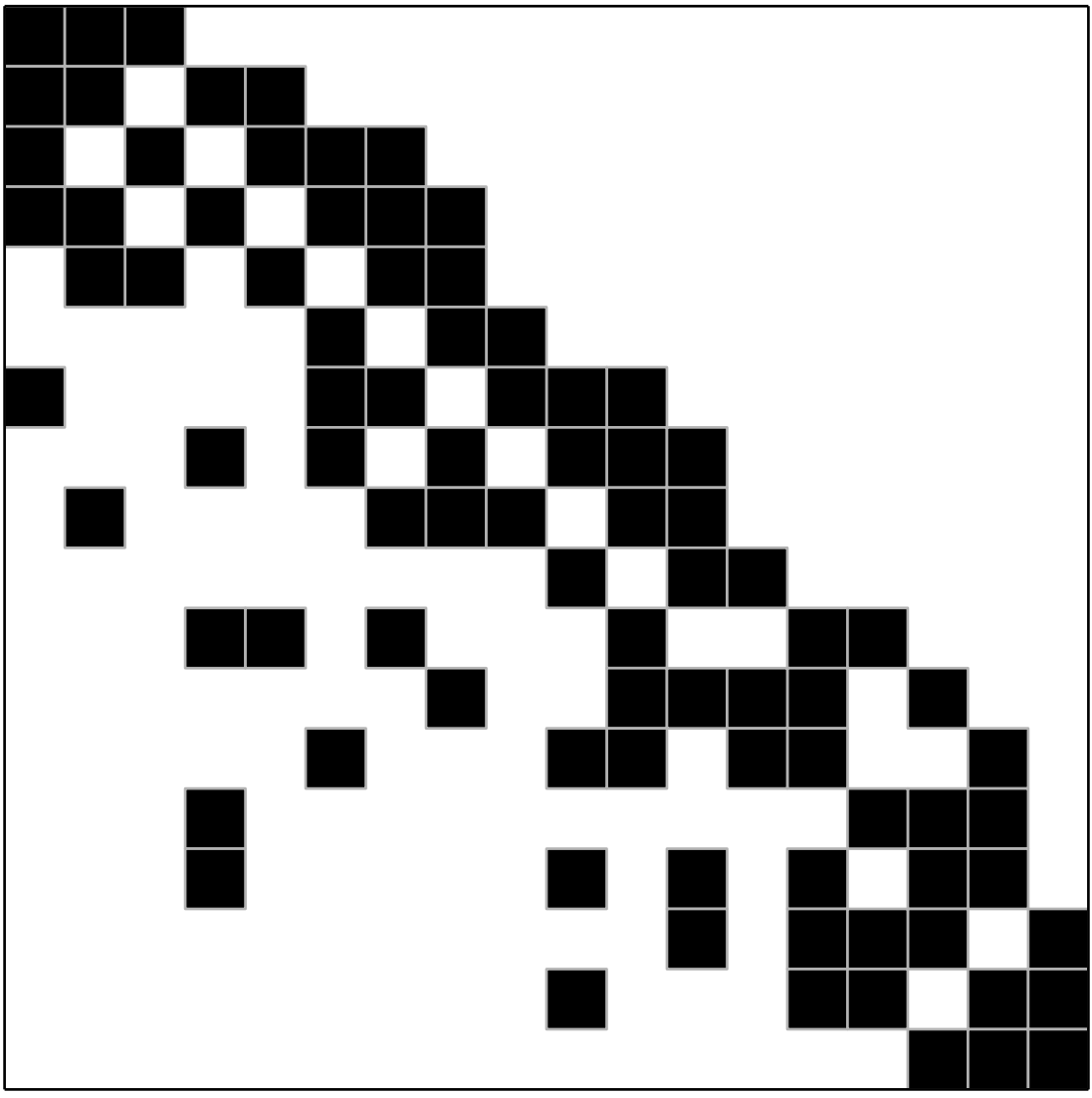


lib3_pentagonall-08, cost: 6, diff: 6, explored: 37, time: 0.01s

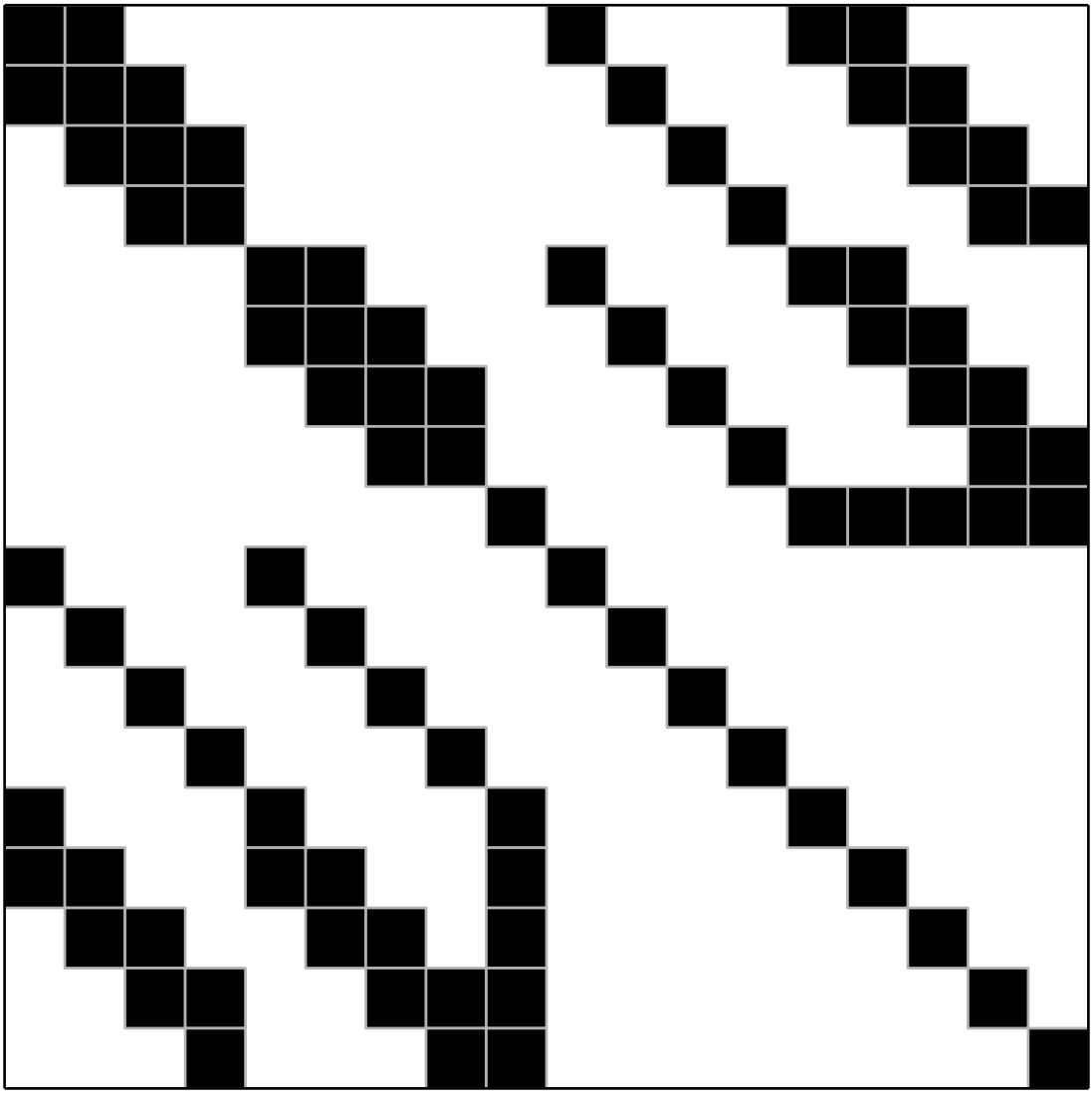


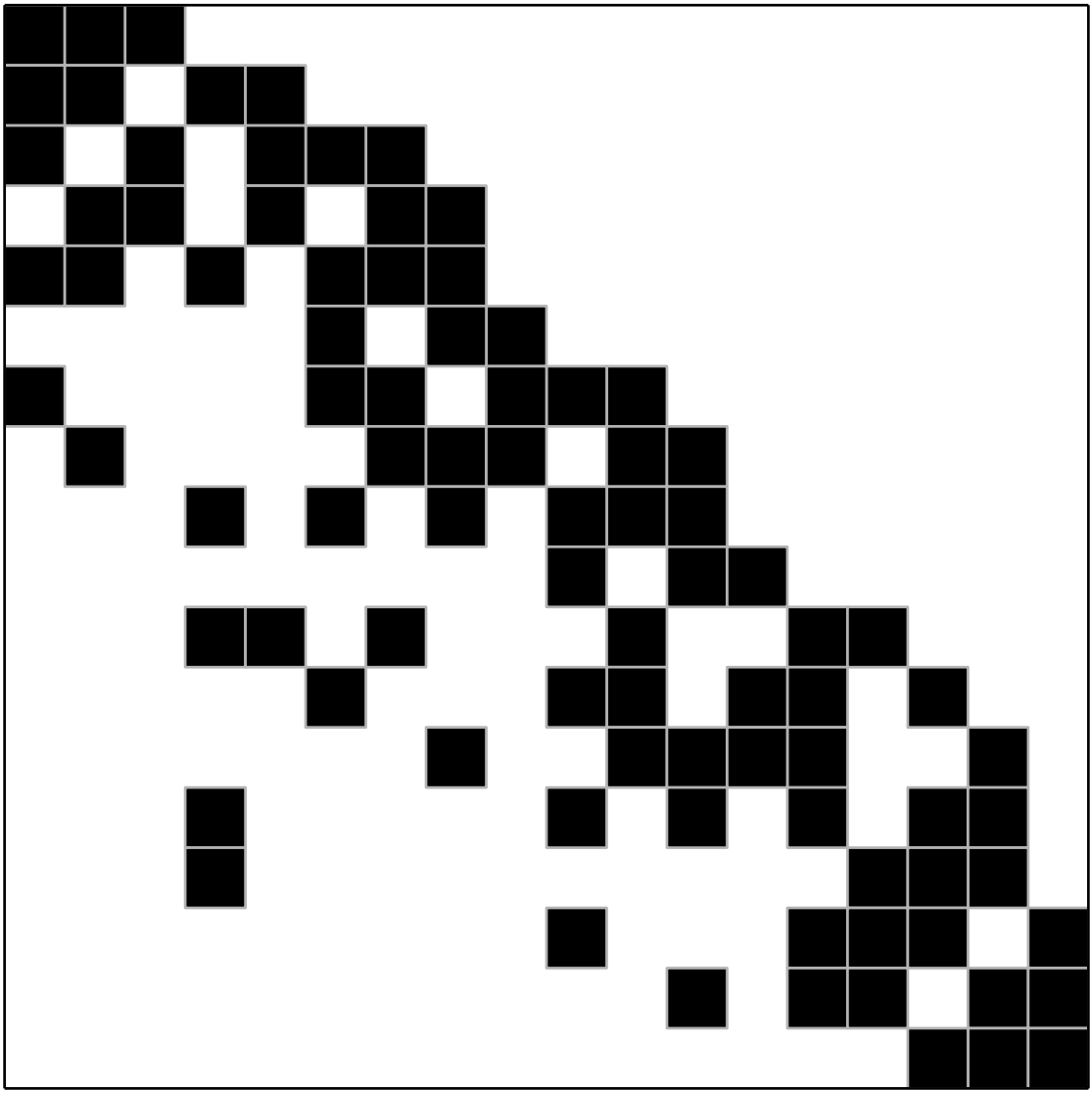
lib3_pentagonall-09 18x18 (88) con: 9, var: 9



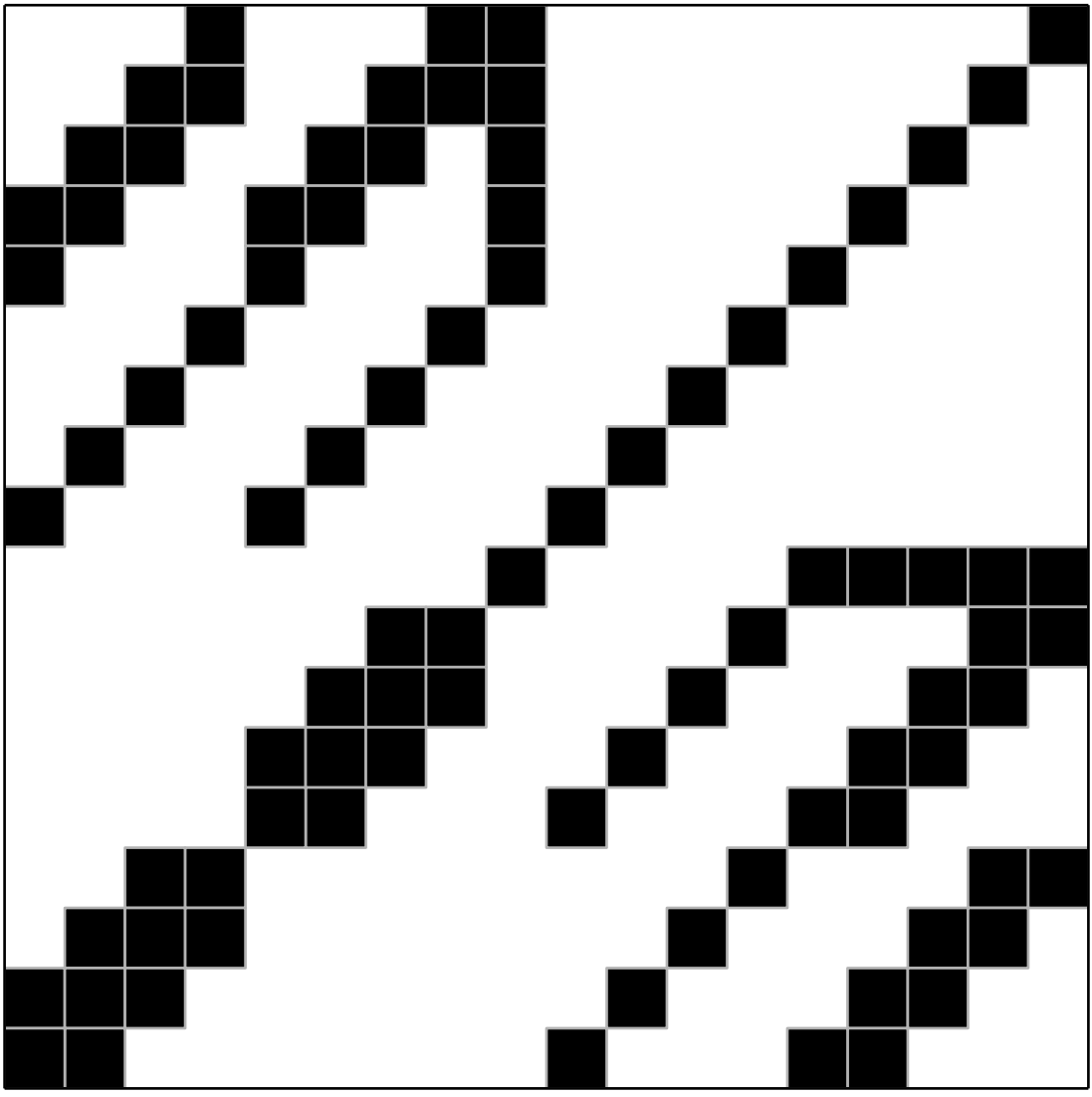

lib3_pentagonall-09, cost: 6, diff: 6, explored: 44, time: 0.01s

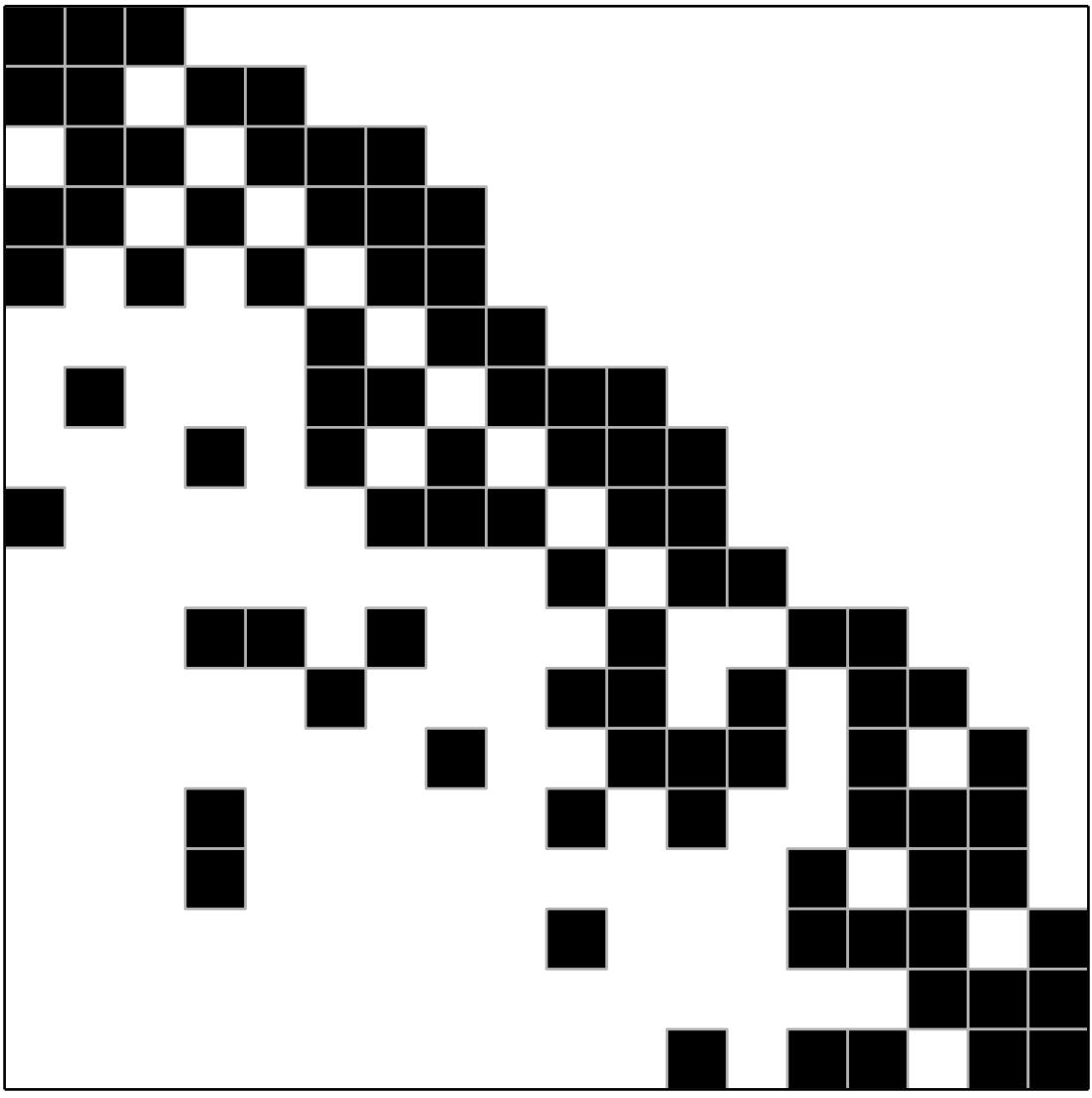
lib3_pentagonall-IN 18x18 (88) con: 9, var: 9



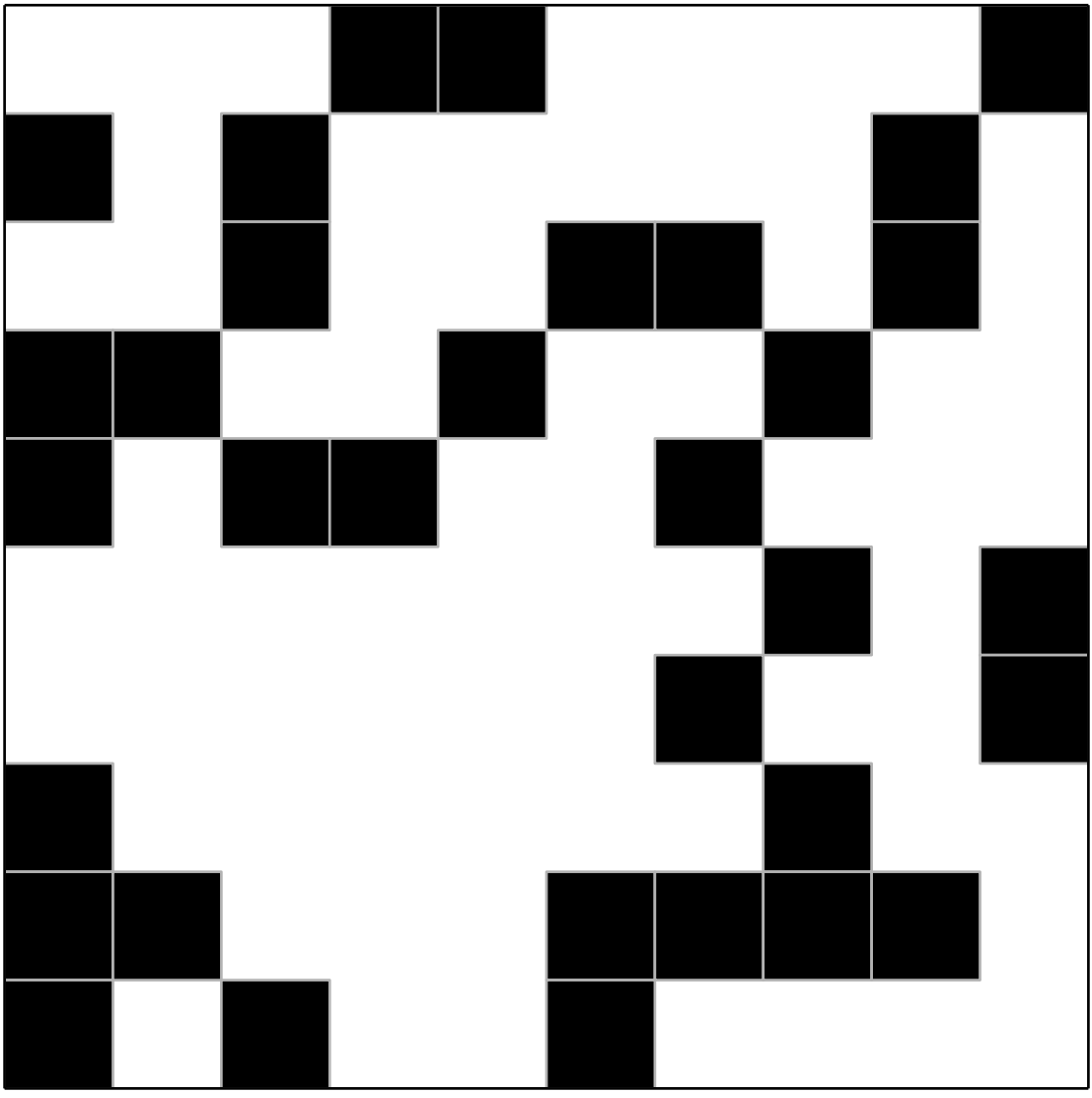

lib3_pentagonall-IN, cost: 6, diff: 6, explored: 36, time: 0.01s

lib3_pentagonall-RE 18x18 (88) con: 9, var: 9

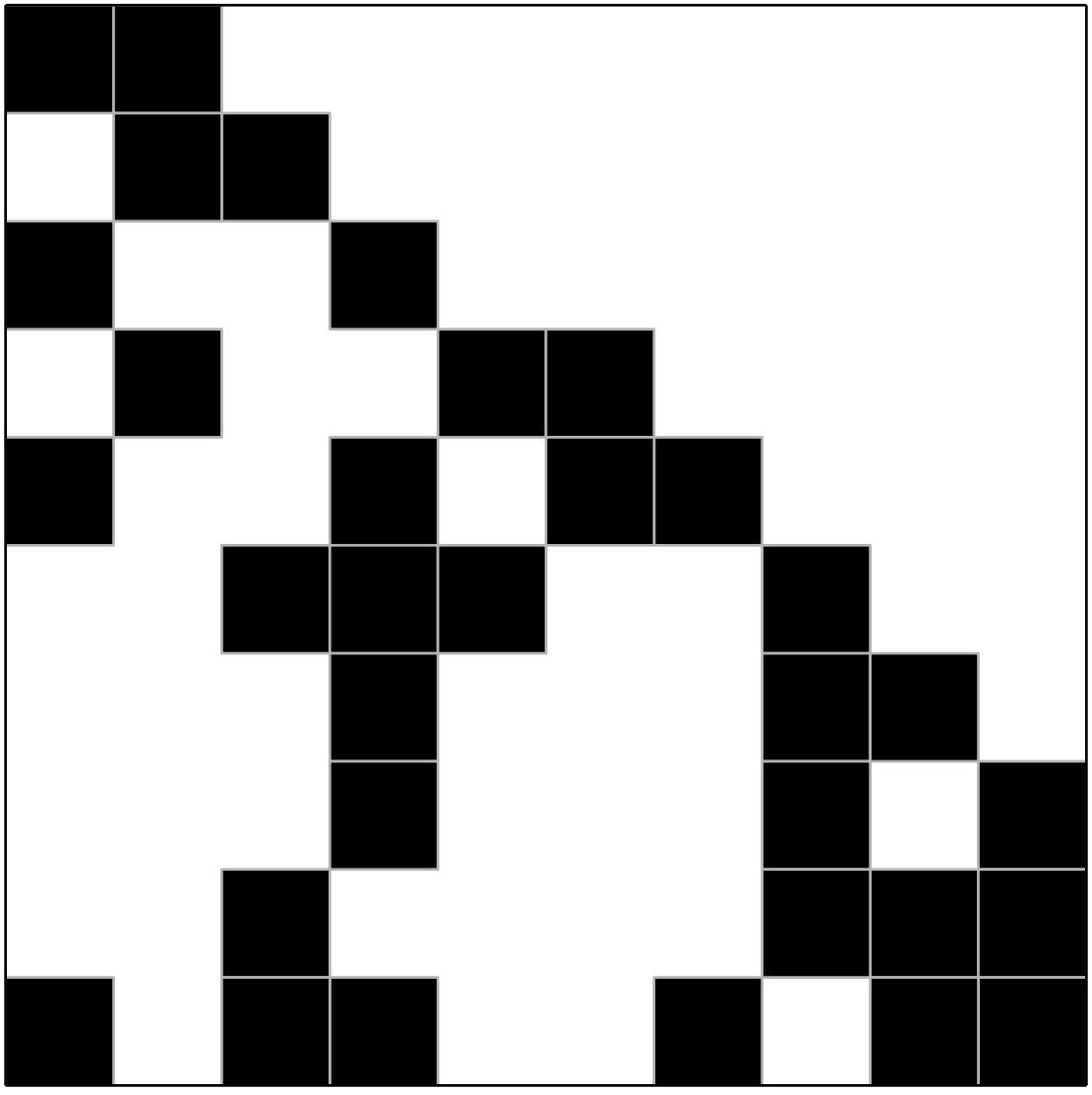



lib3_pentagonall-RE, cost: 6, diff: 6, explored: 36, time: 0.01s

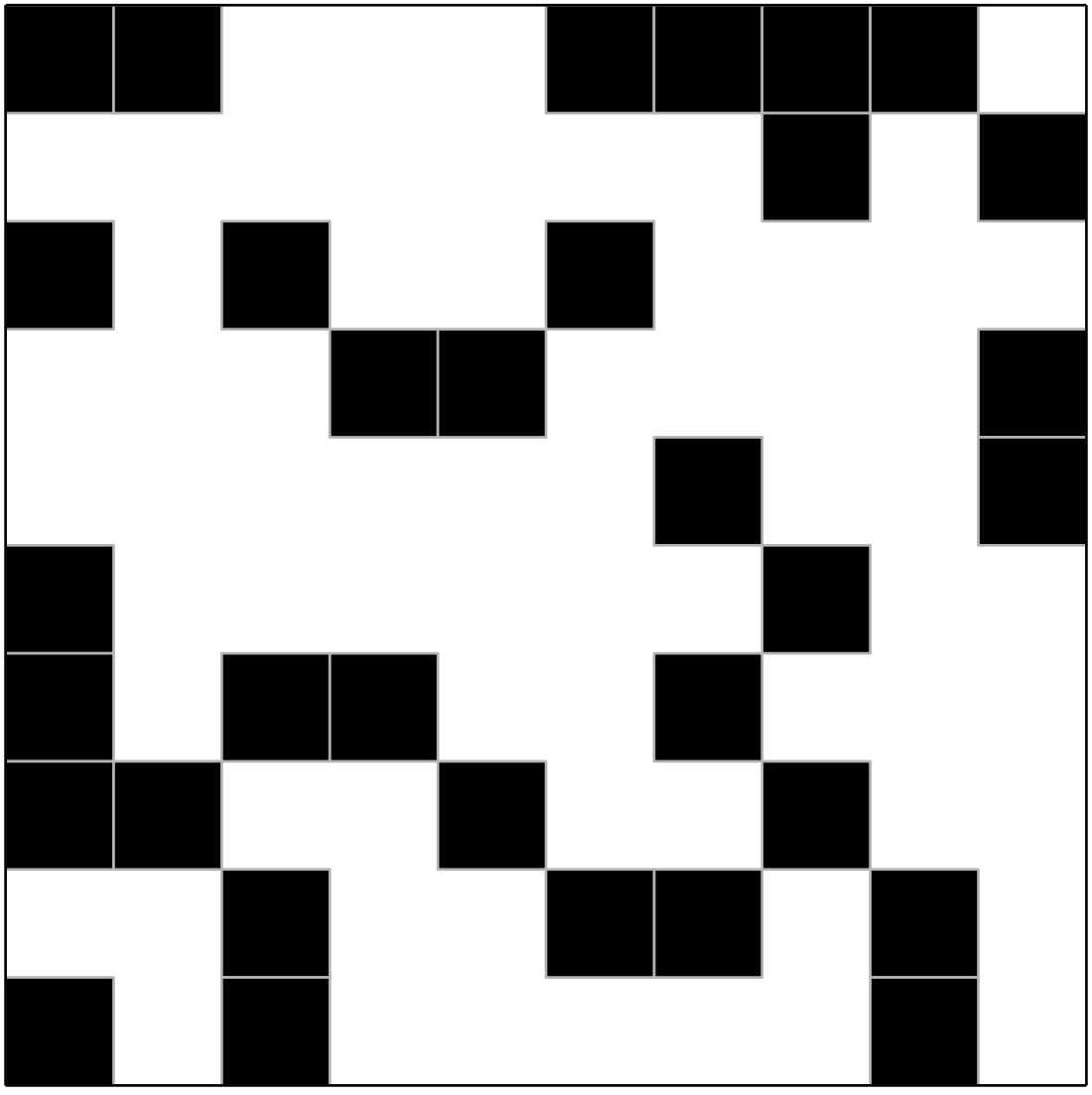
lib3_piano-00 10x10 (33) con: 5, var: 5



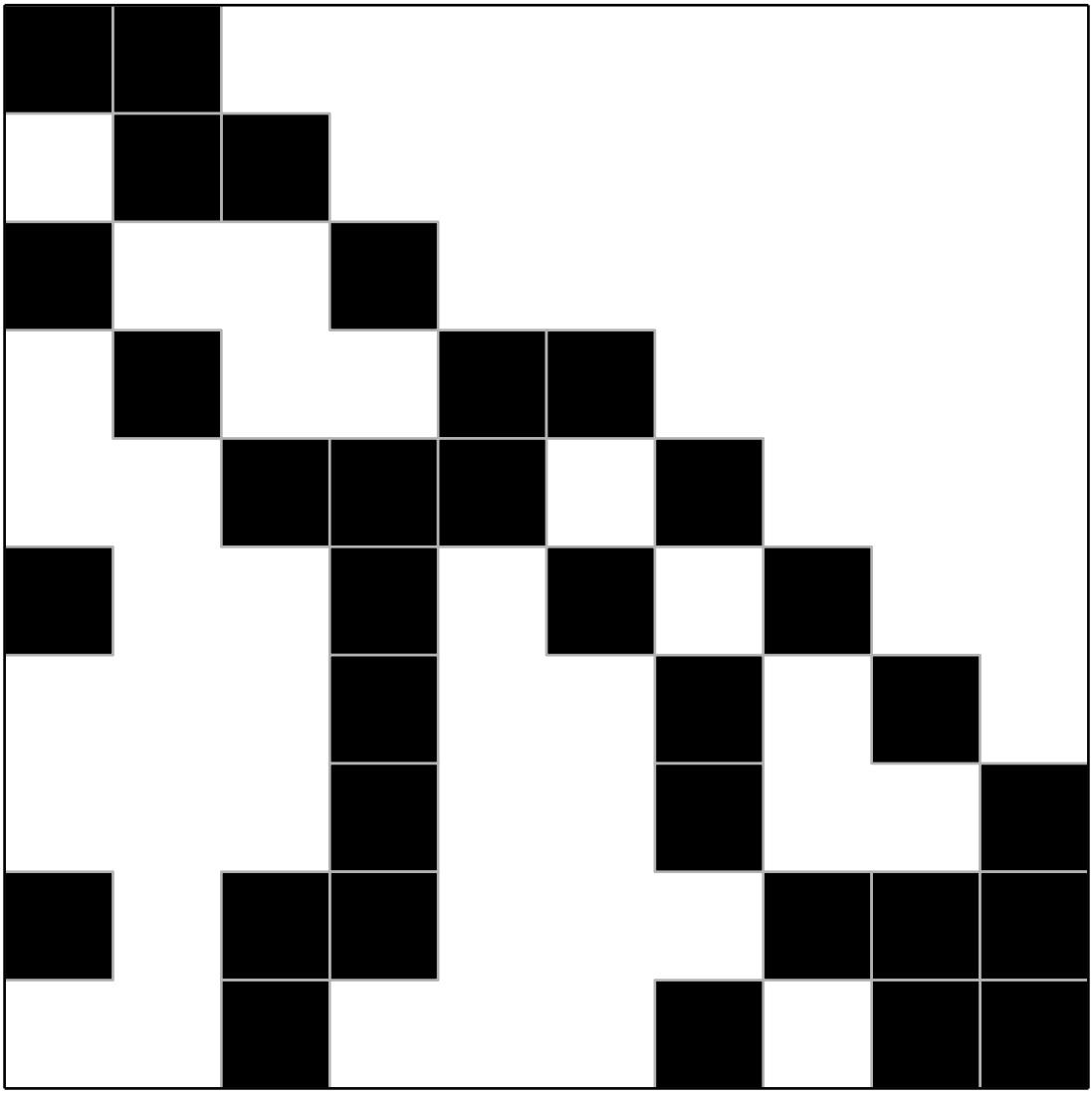
lib3_piano-00, cost: 2, diff: 2, explored: 2, time: 0.00s



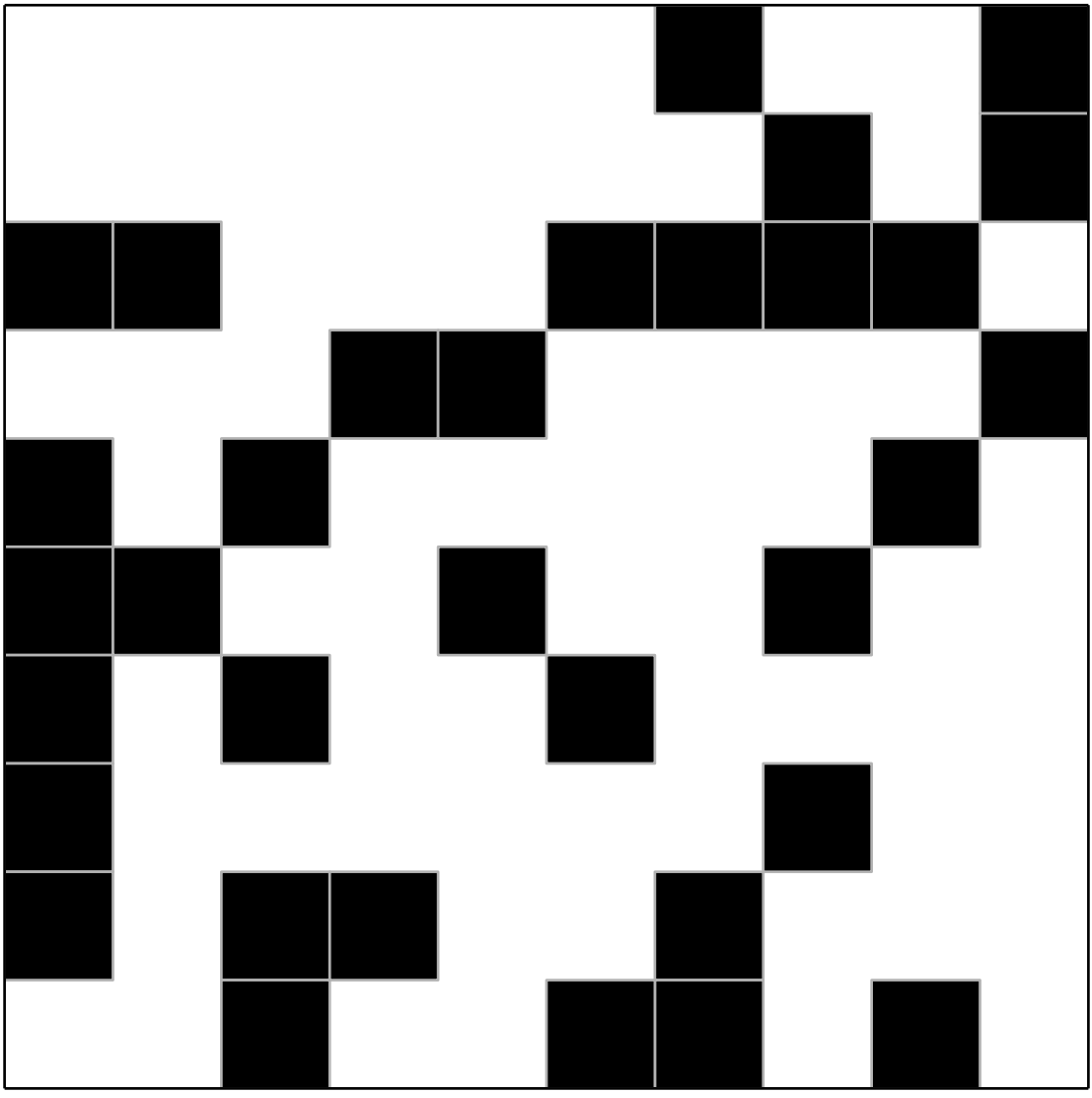
lib3_piano-01 10x10 (33) con: 5, var: 5



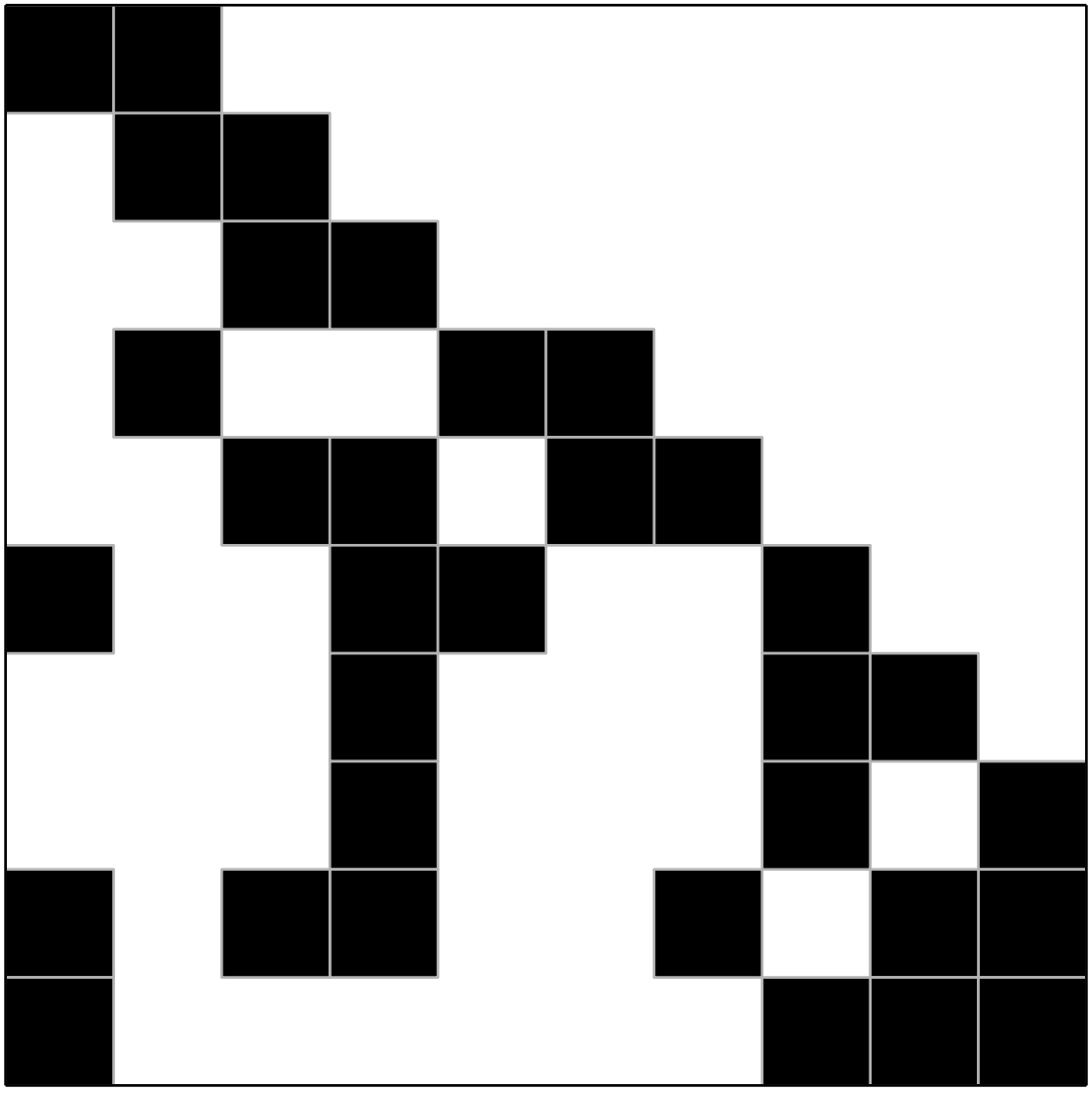
lib3_piano-01, cost: 2, diff: 2, explored: 2, time: 0.00s



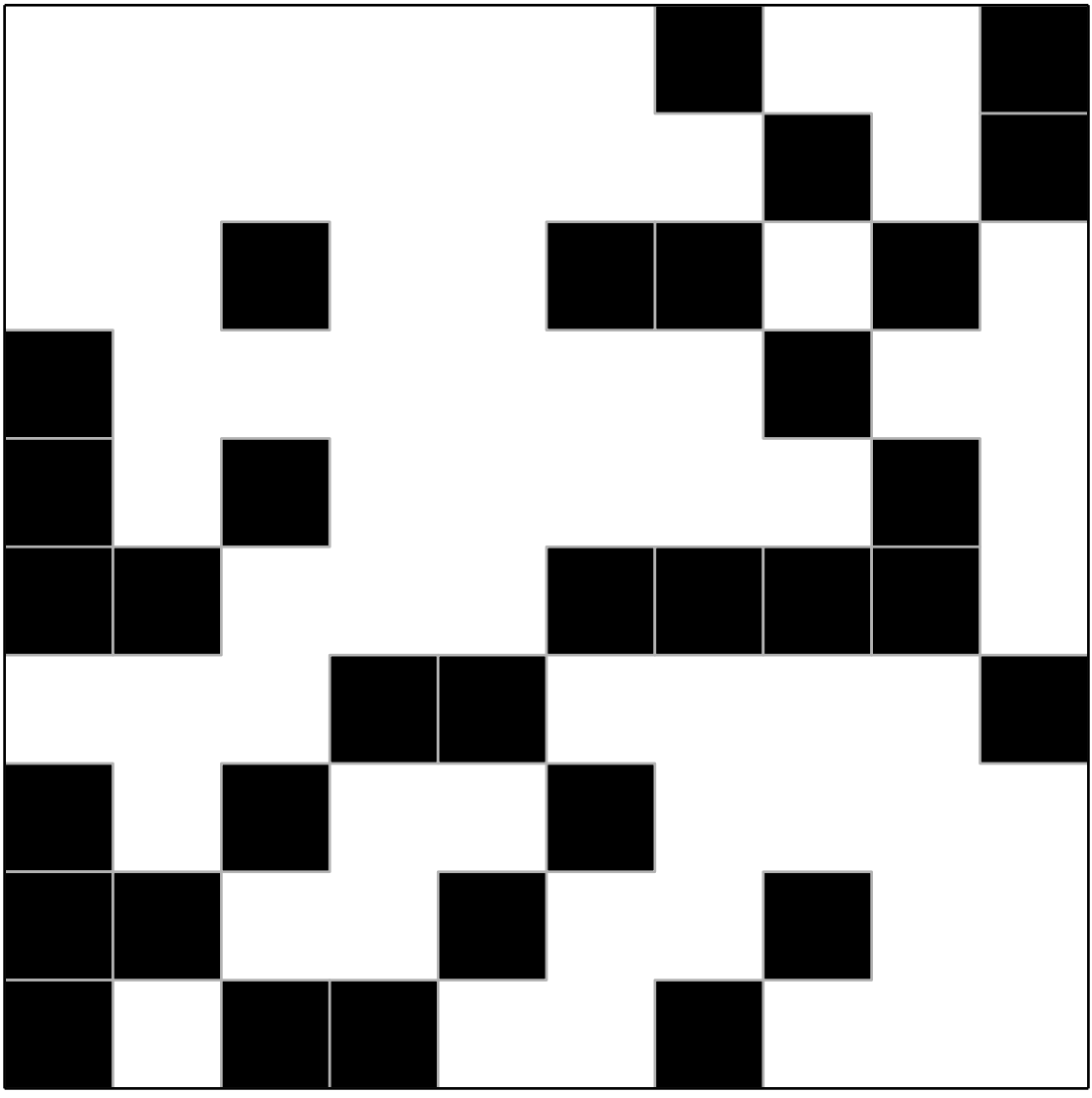
lib3_piano-02 10x10 (33) con: 5, var: 5

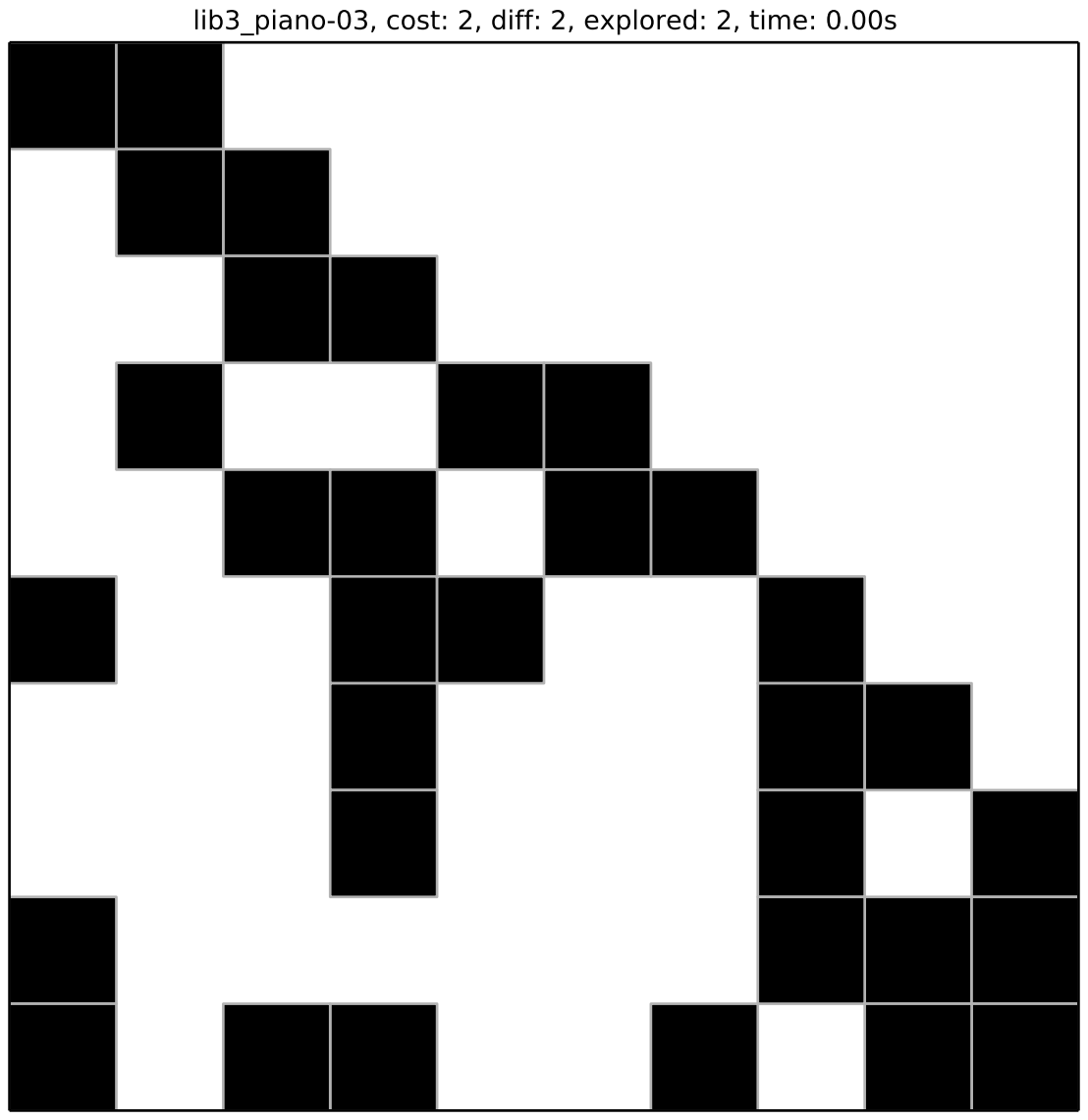


lib3_piano-02, cost: 2, diff: 2, explored: 2, time: 0.00s

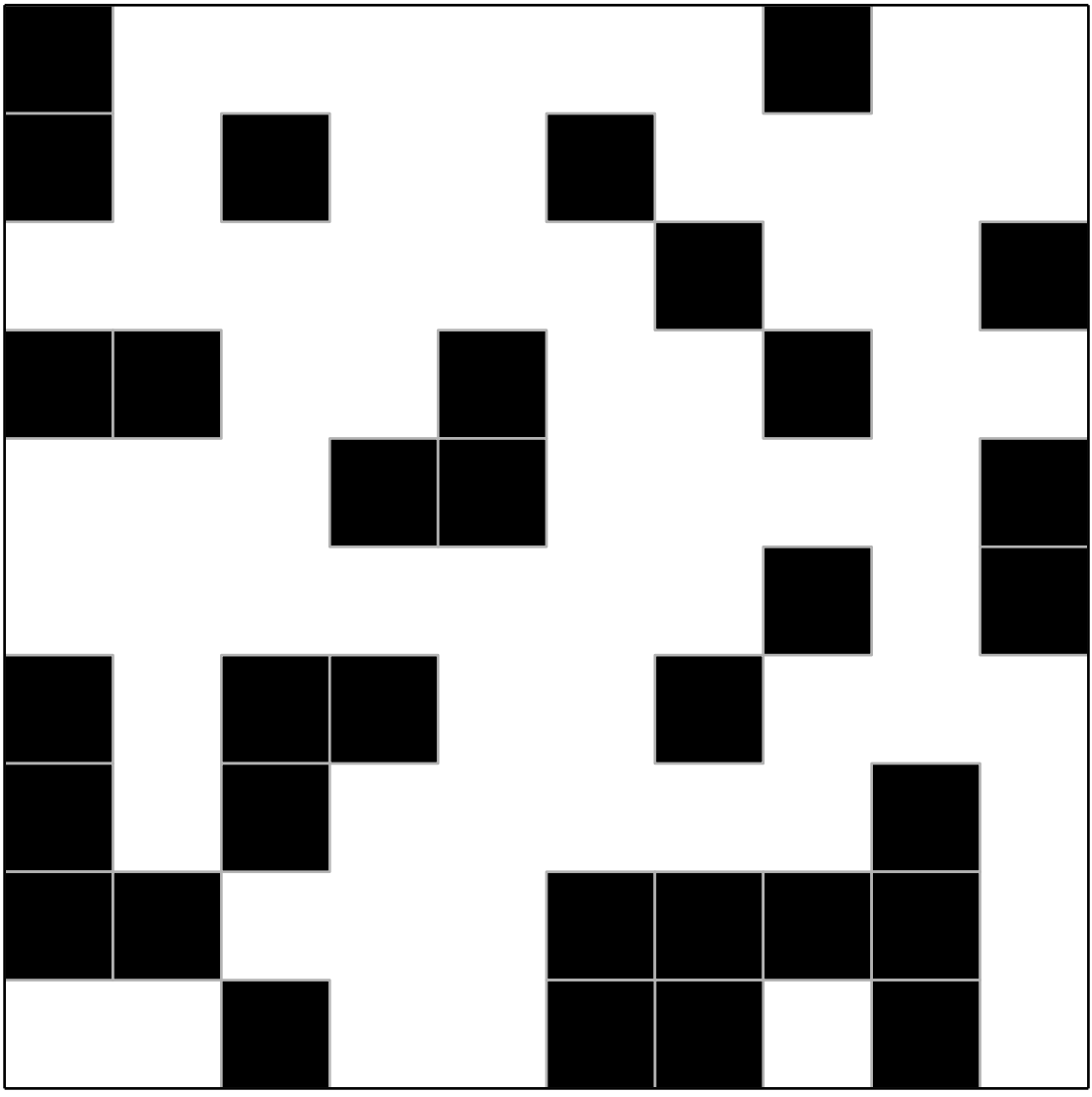


lib3_piano-03 10x10 (33) con: 5, var: 5

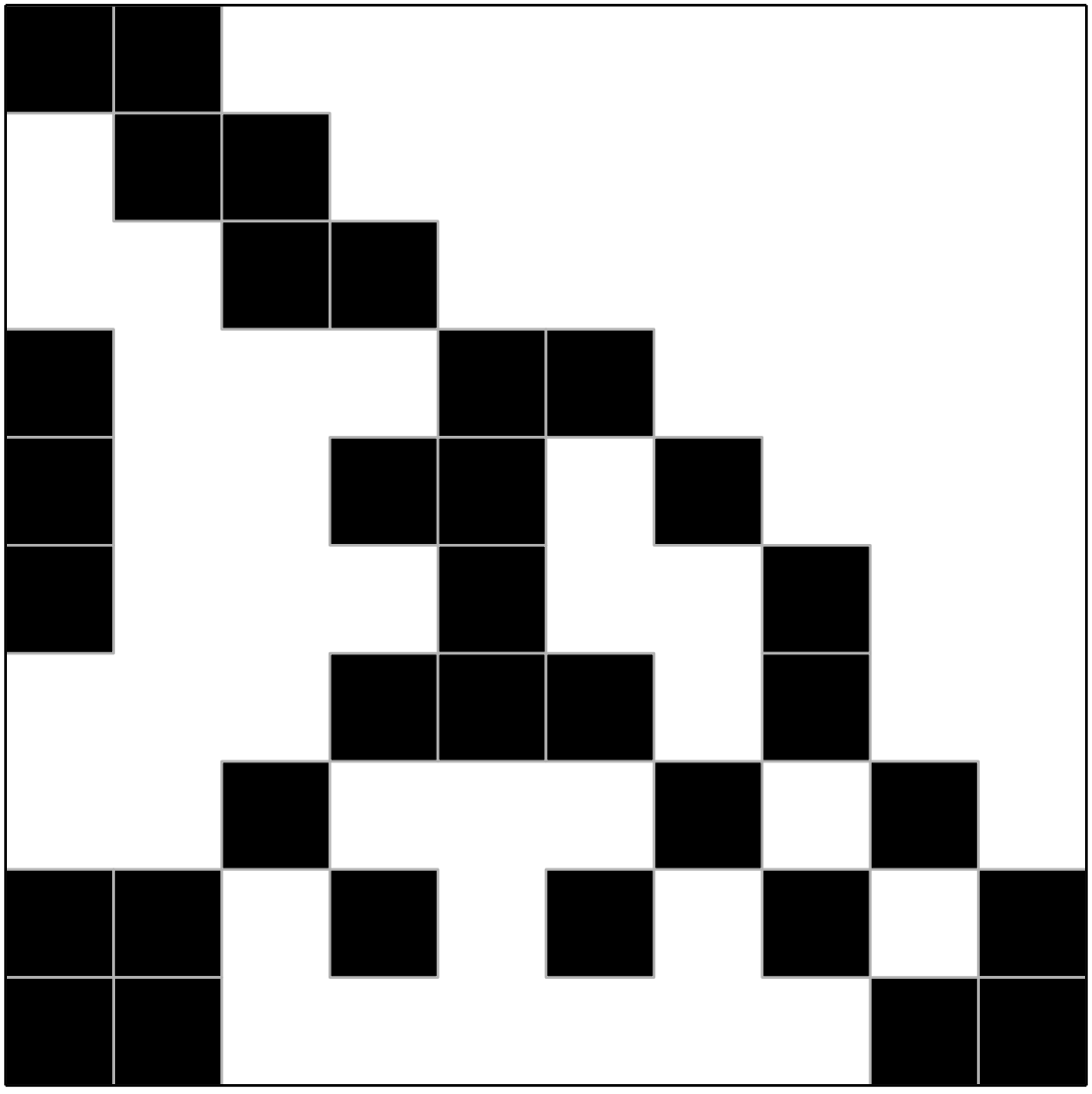



lib3_piano-03, cost: 2, diff: 2, explored: 2, time: 0.00s

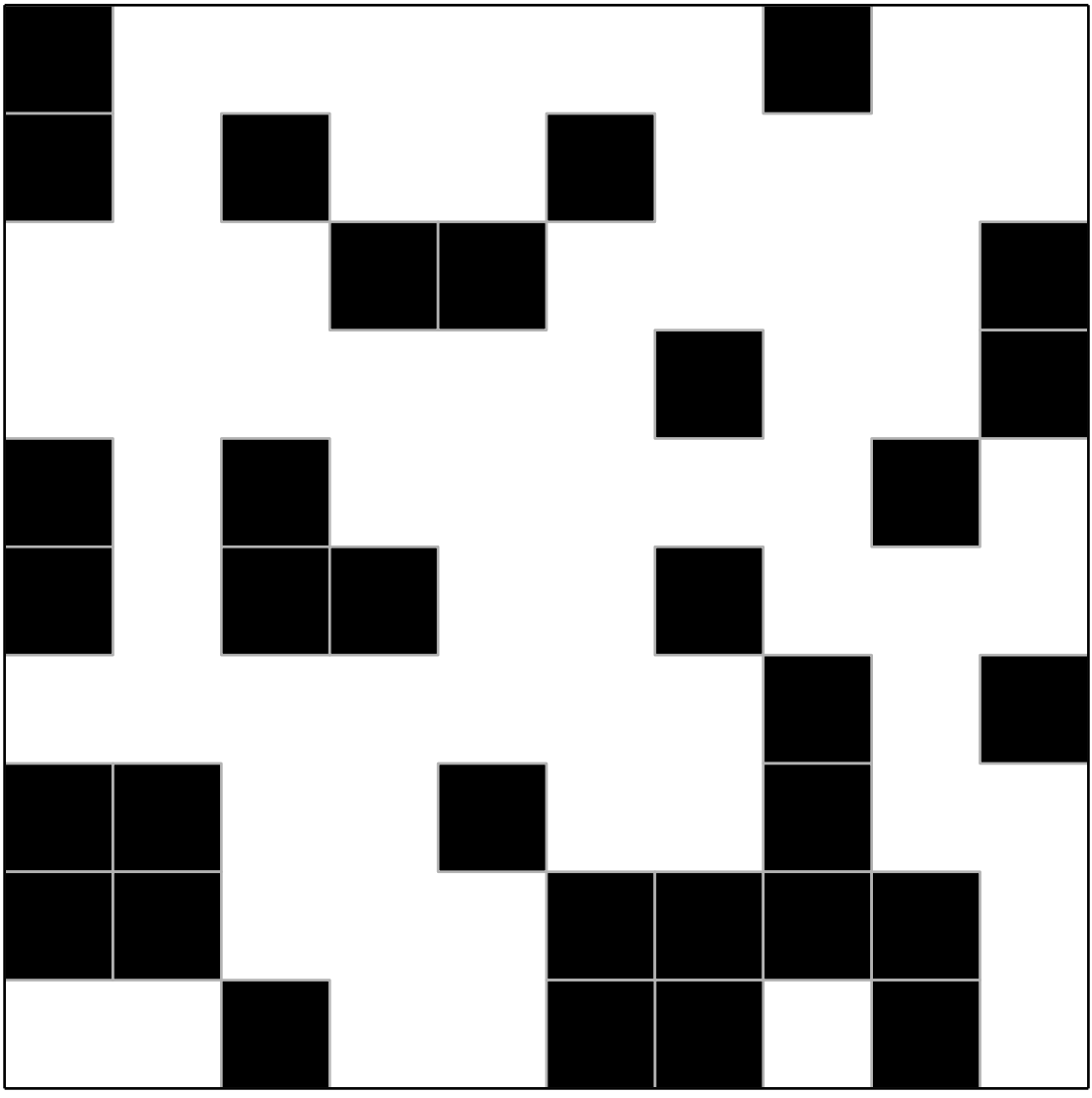
lib3_piano-04 10x10 (33) con: 5, var: 5



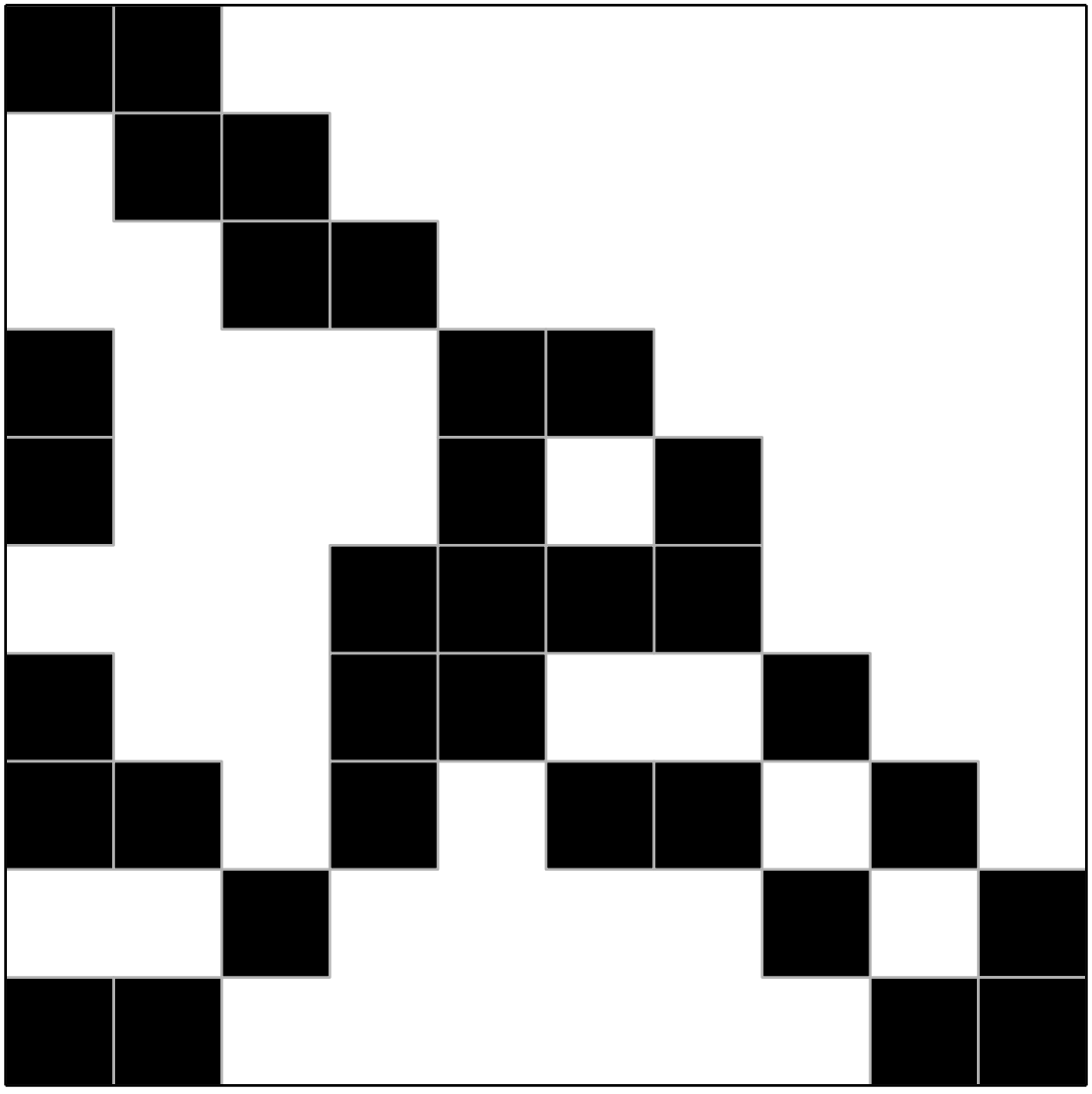
lib3_piano-04, cost: 2, diff: 2, explored: 2, time: 0.00s



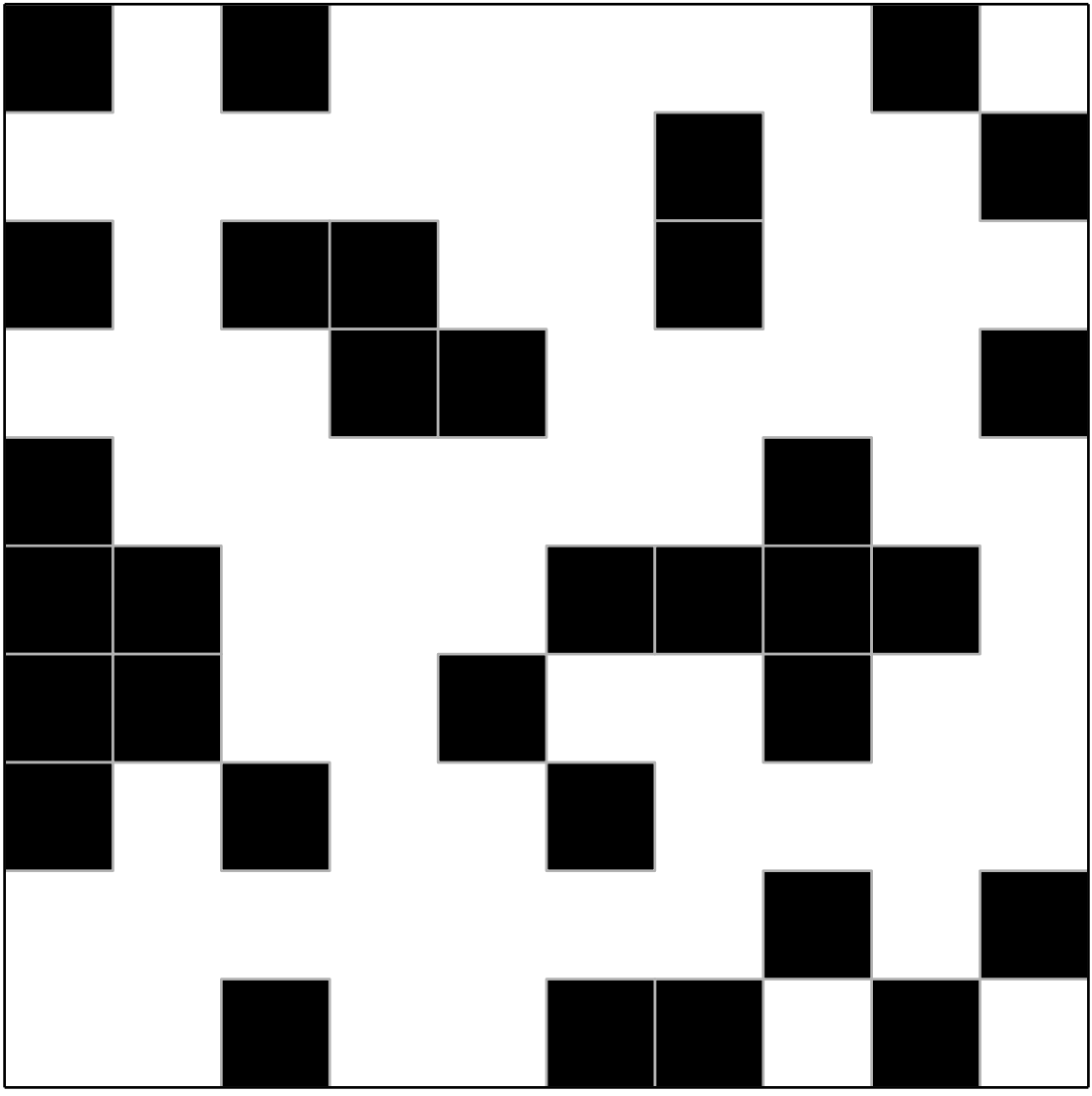
lib3_piano-05 10x10 (33) con: 5, var: 5



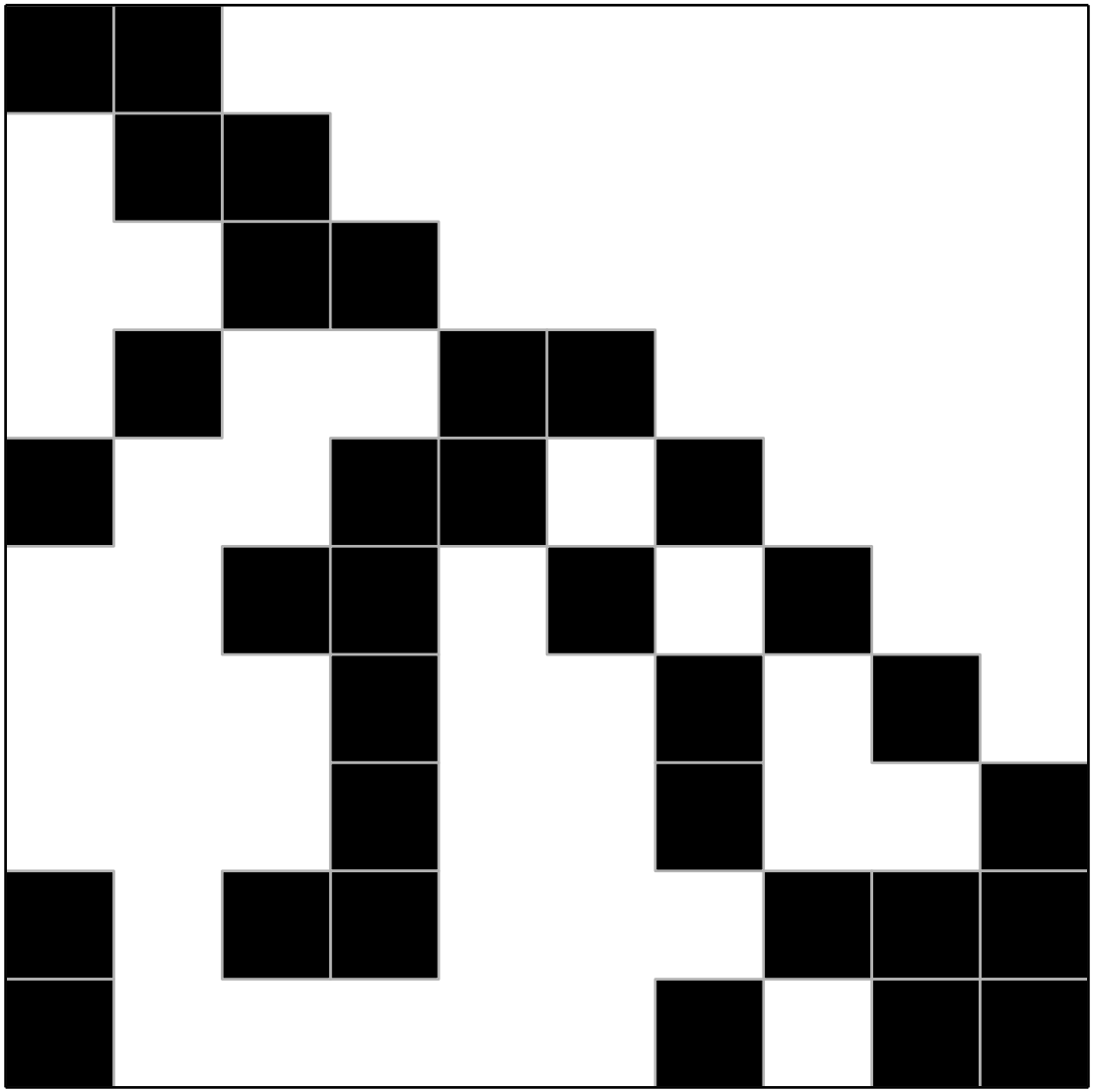
lib3_piano-05, cost: 2, diff: 2, explored: 2, time: 0.00s



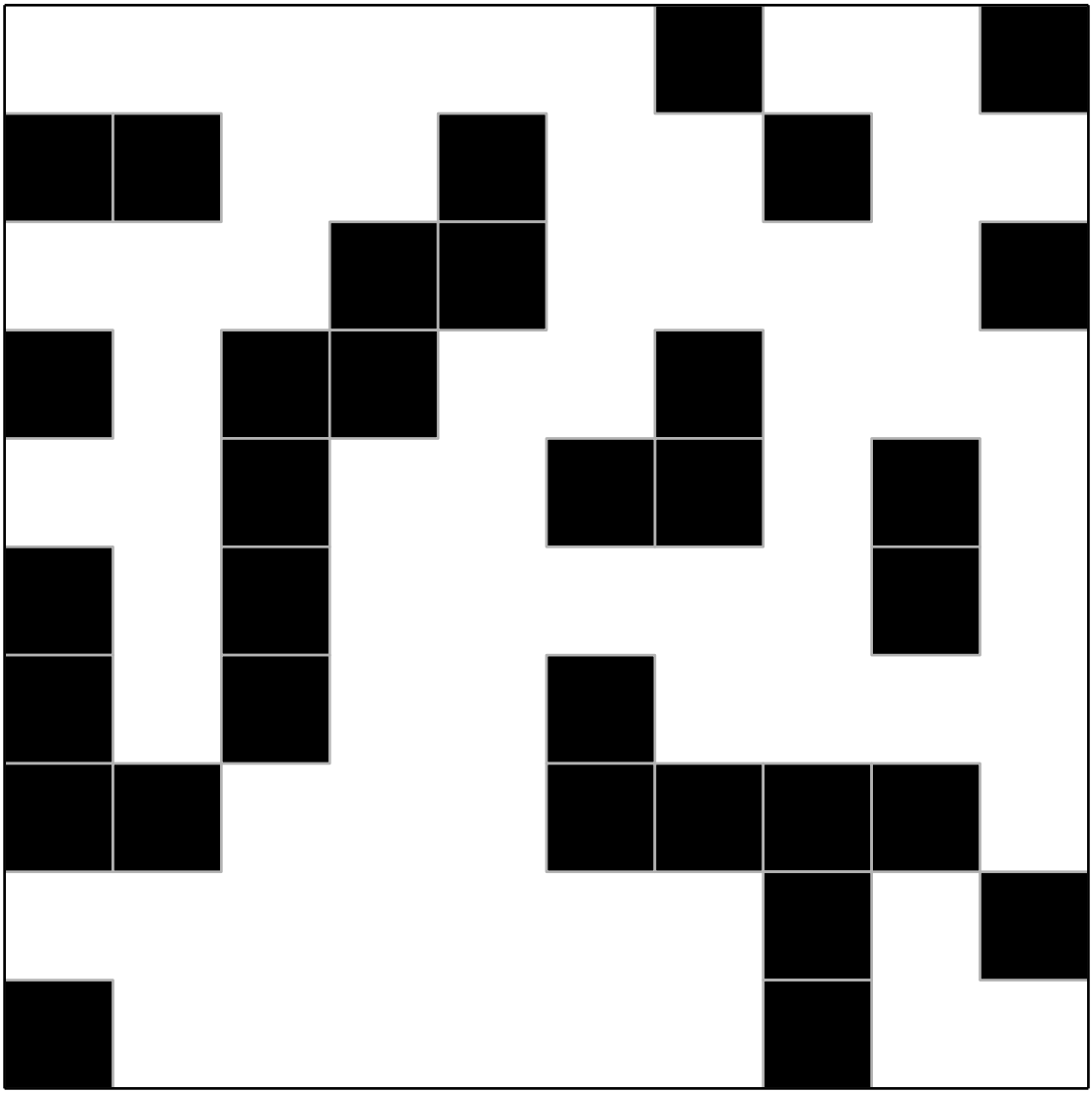
lib3_piano-06 10x10 (33) con: 5, var: 5



lib3_piano-06, cost: 2, diff: 2, explored: 2, time: 0.00s



lib3_piano-07 10x10 (33) con: 5, var: 5



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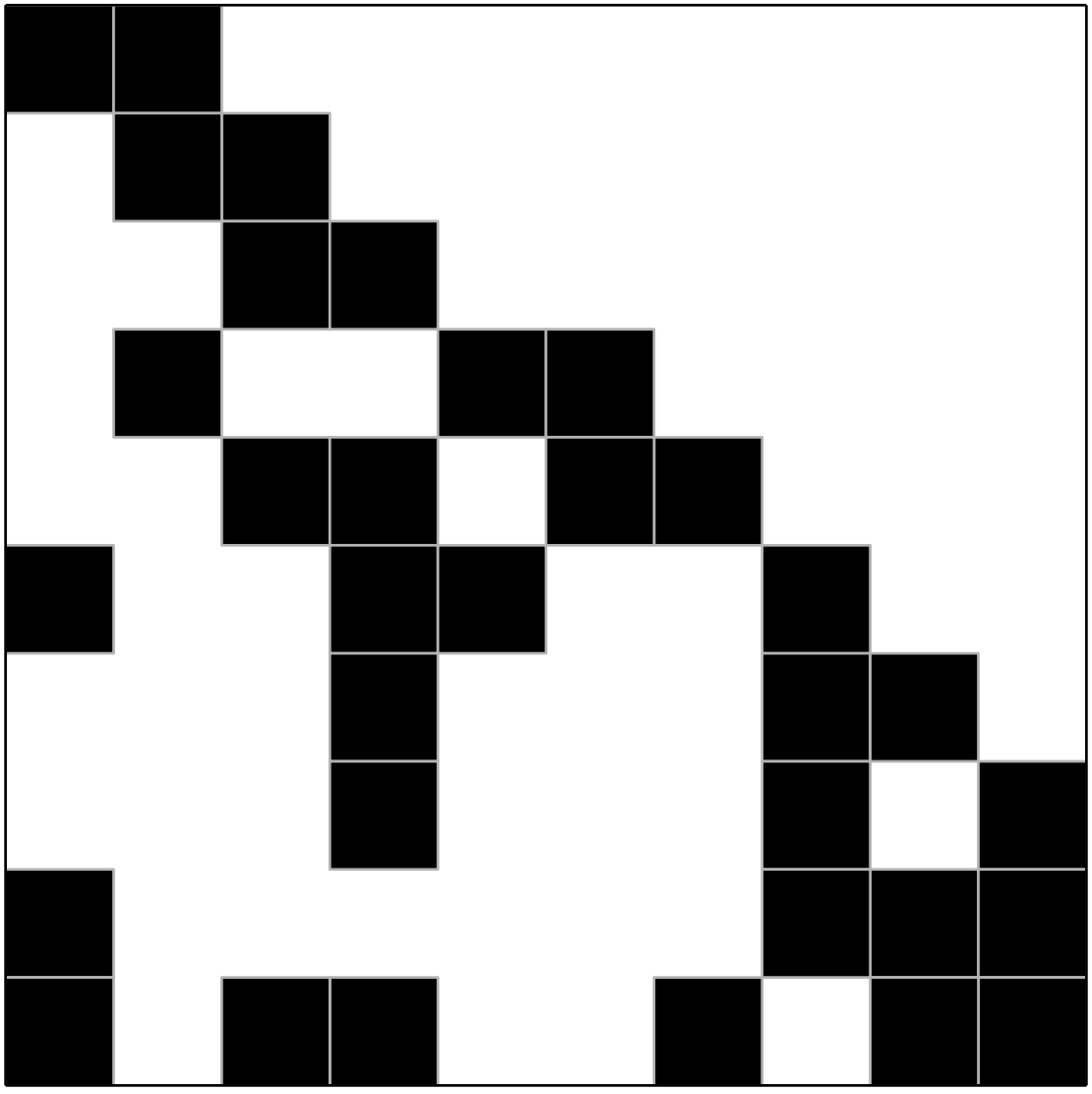
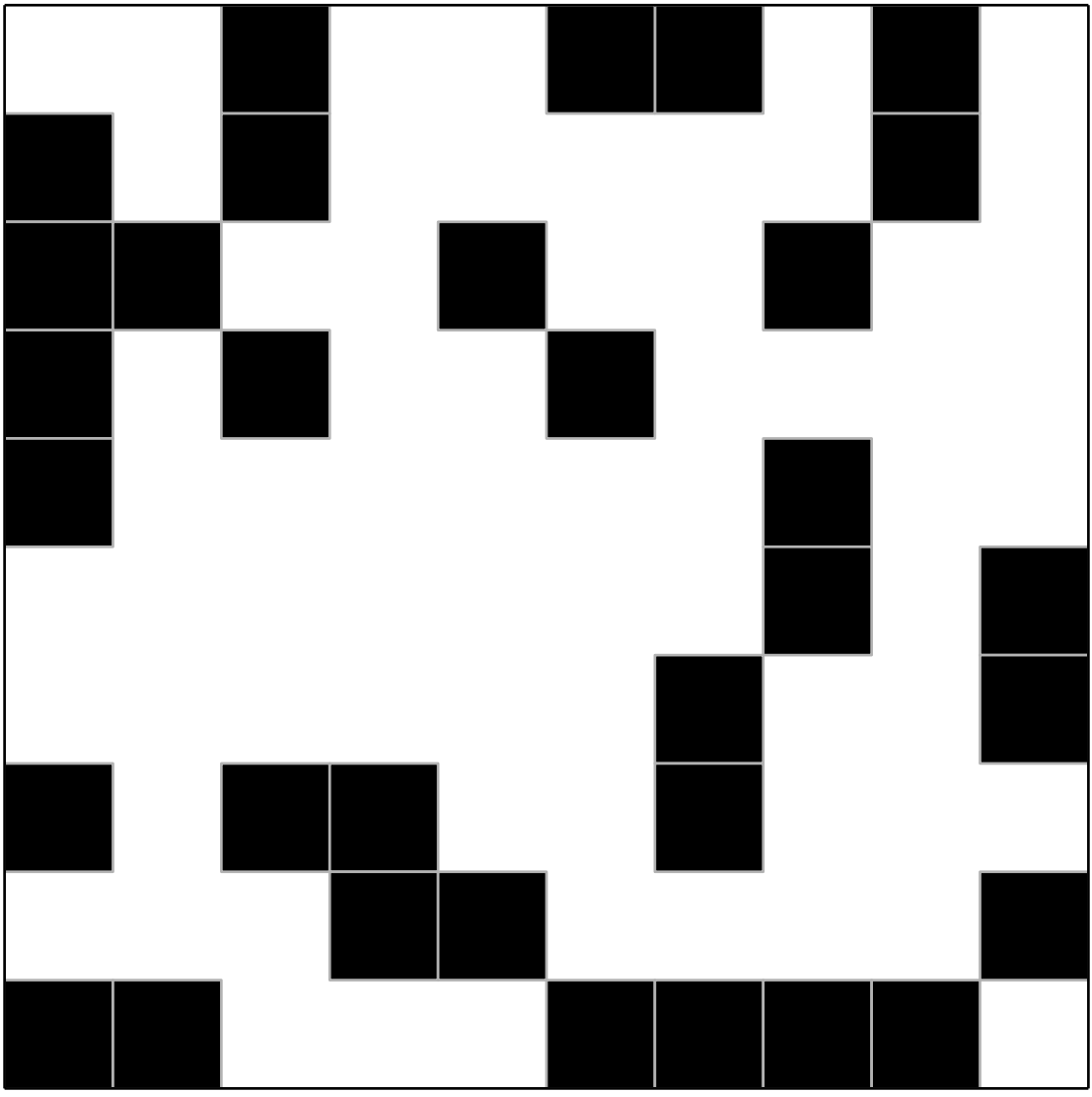


lib3_piano-08 10x10 (33) con: 5, var: 5



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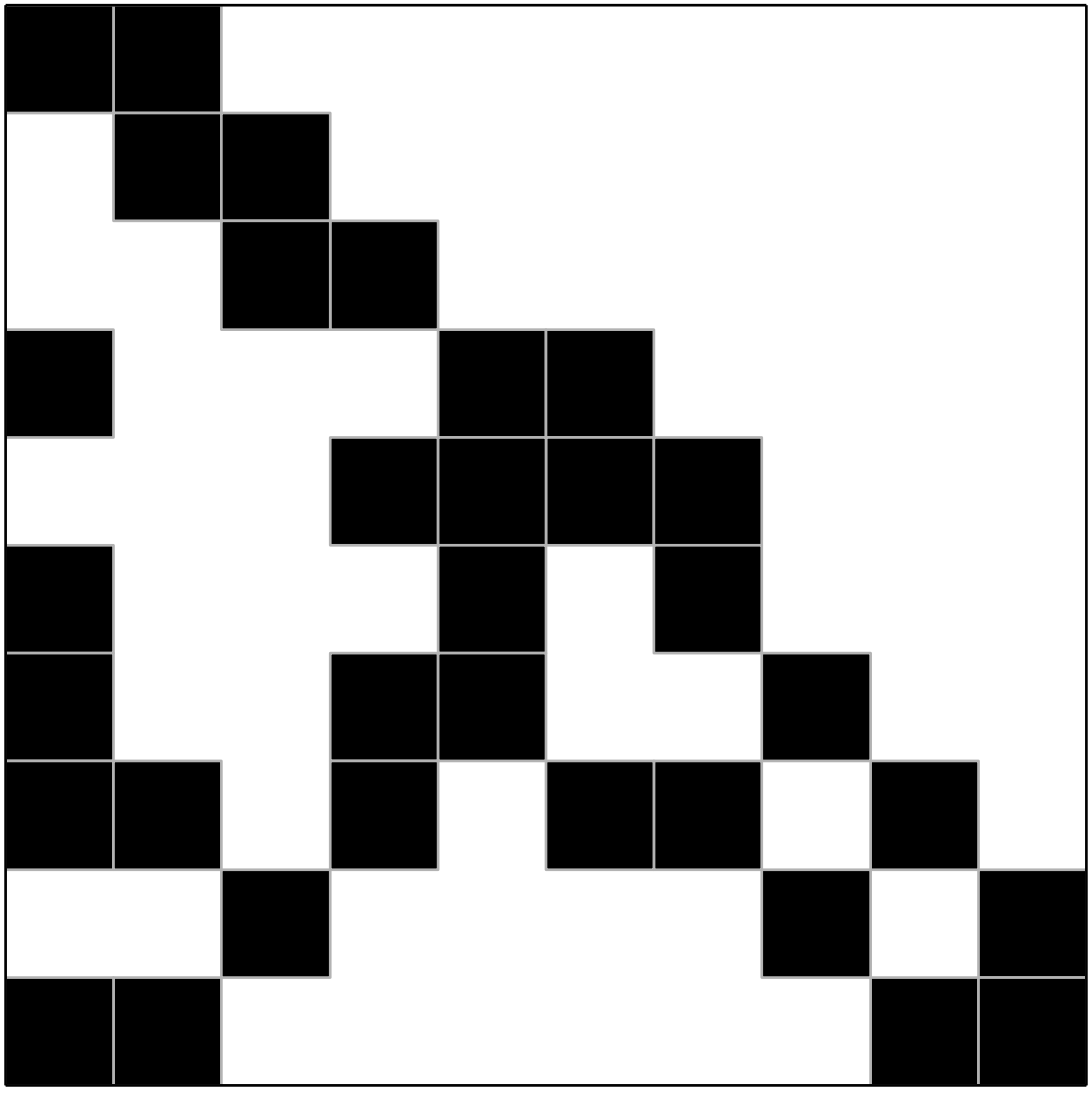
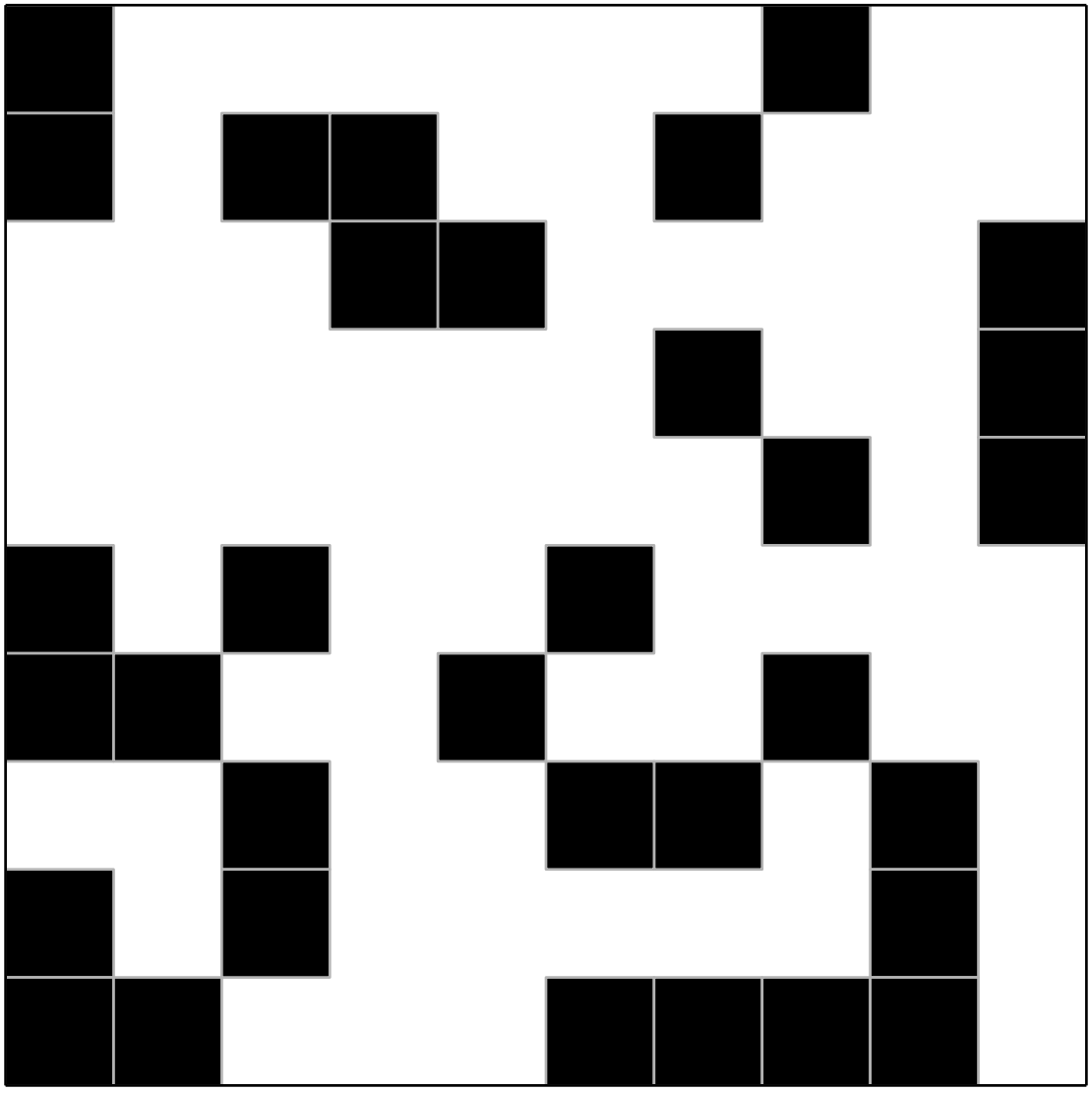


lib3_piano-09 10x10 (33) con: 5, var: 5



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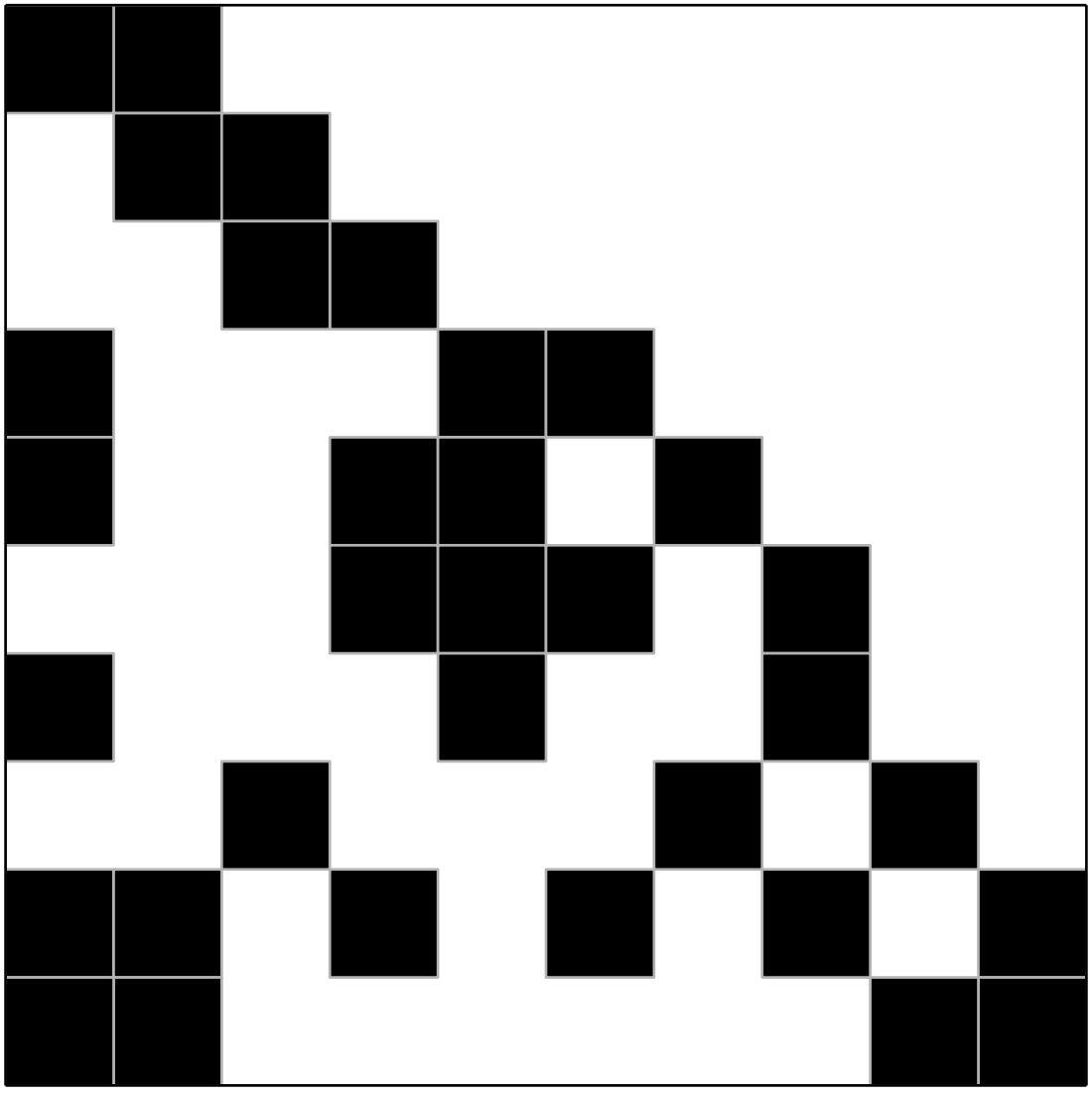
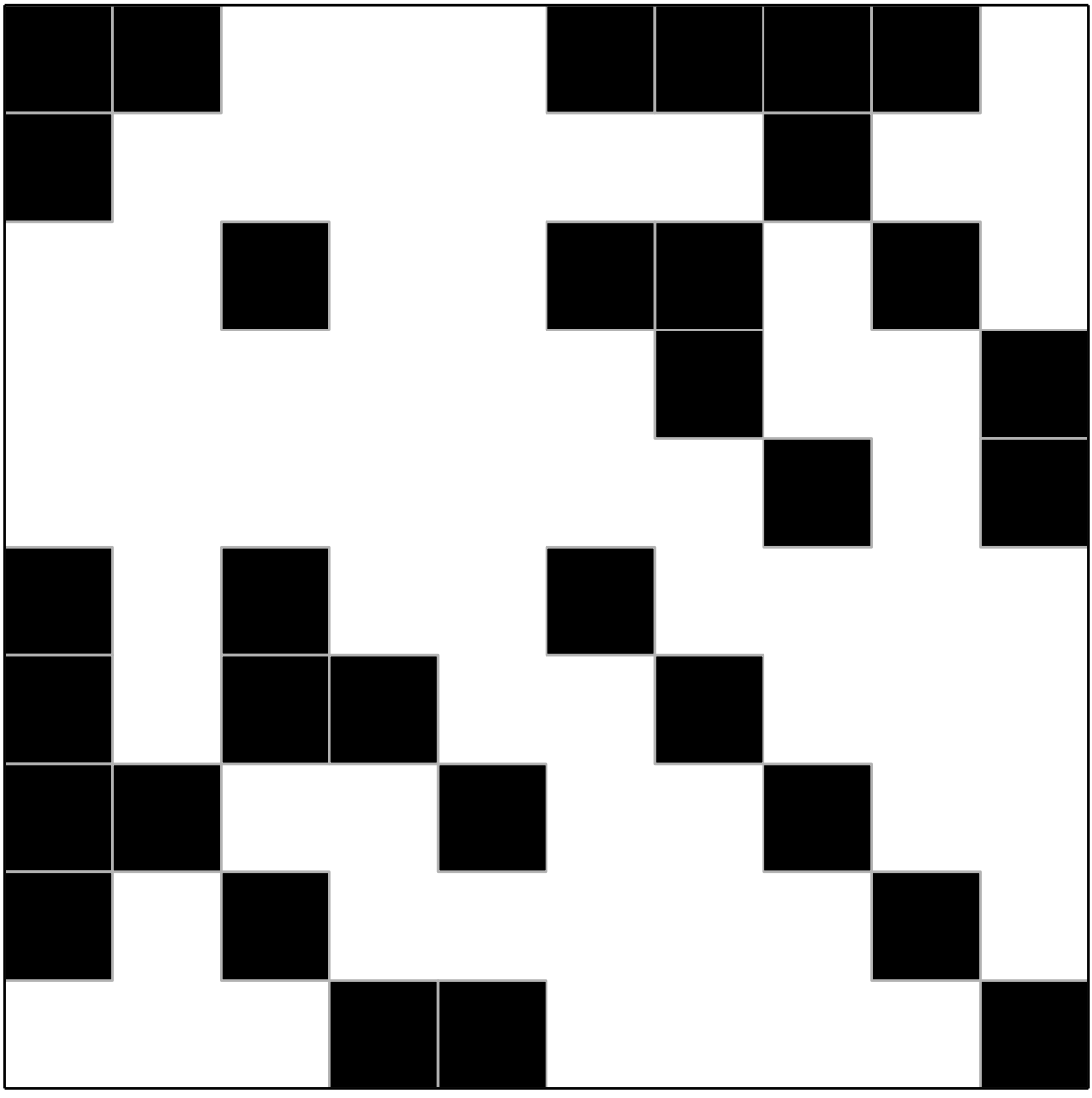
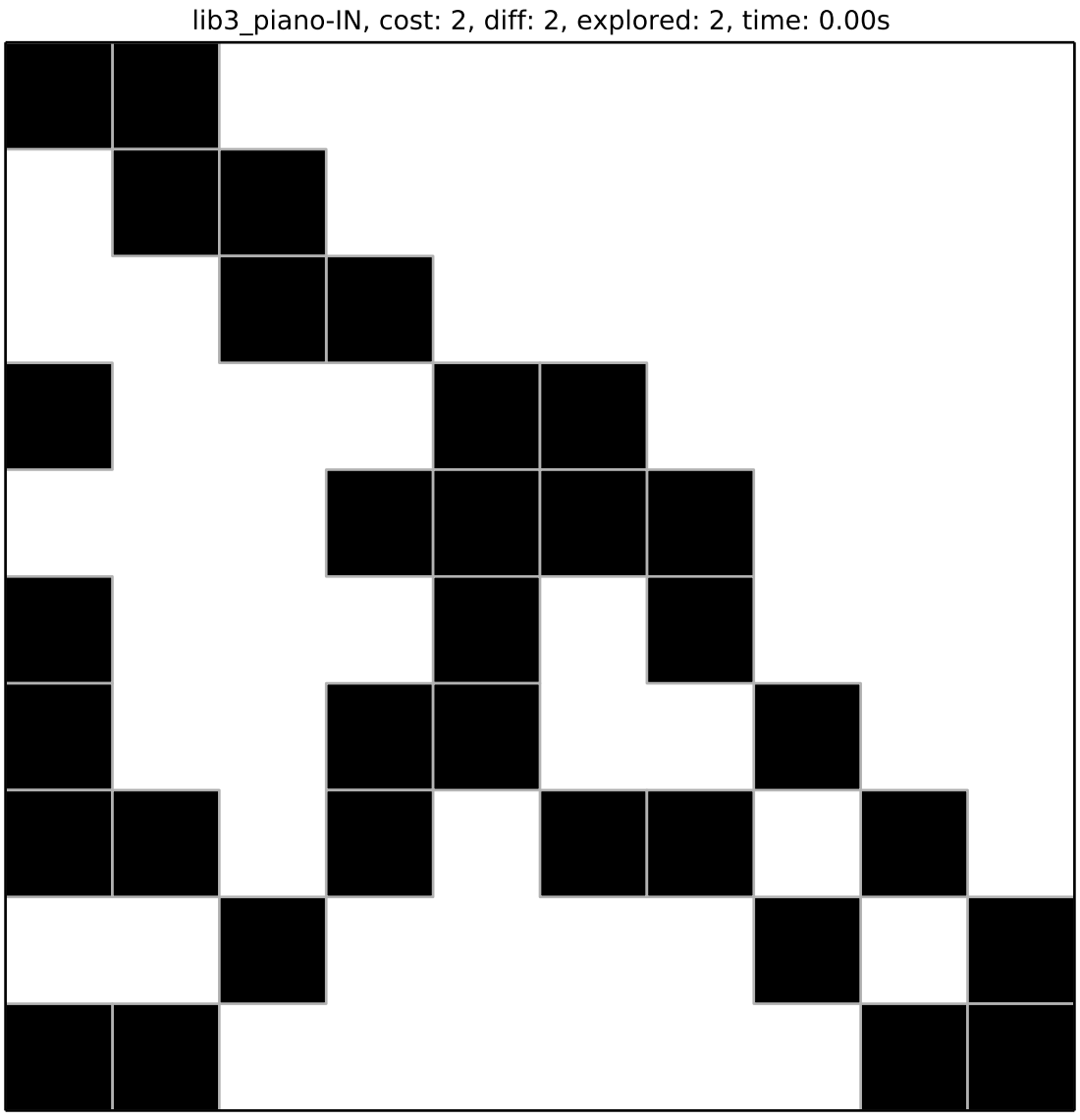
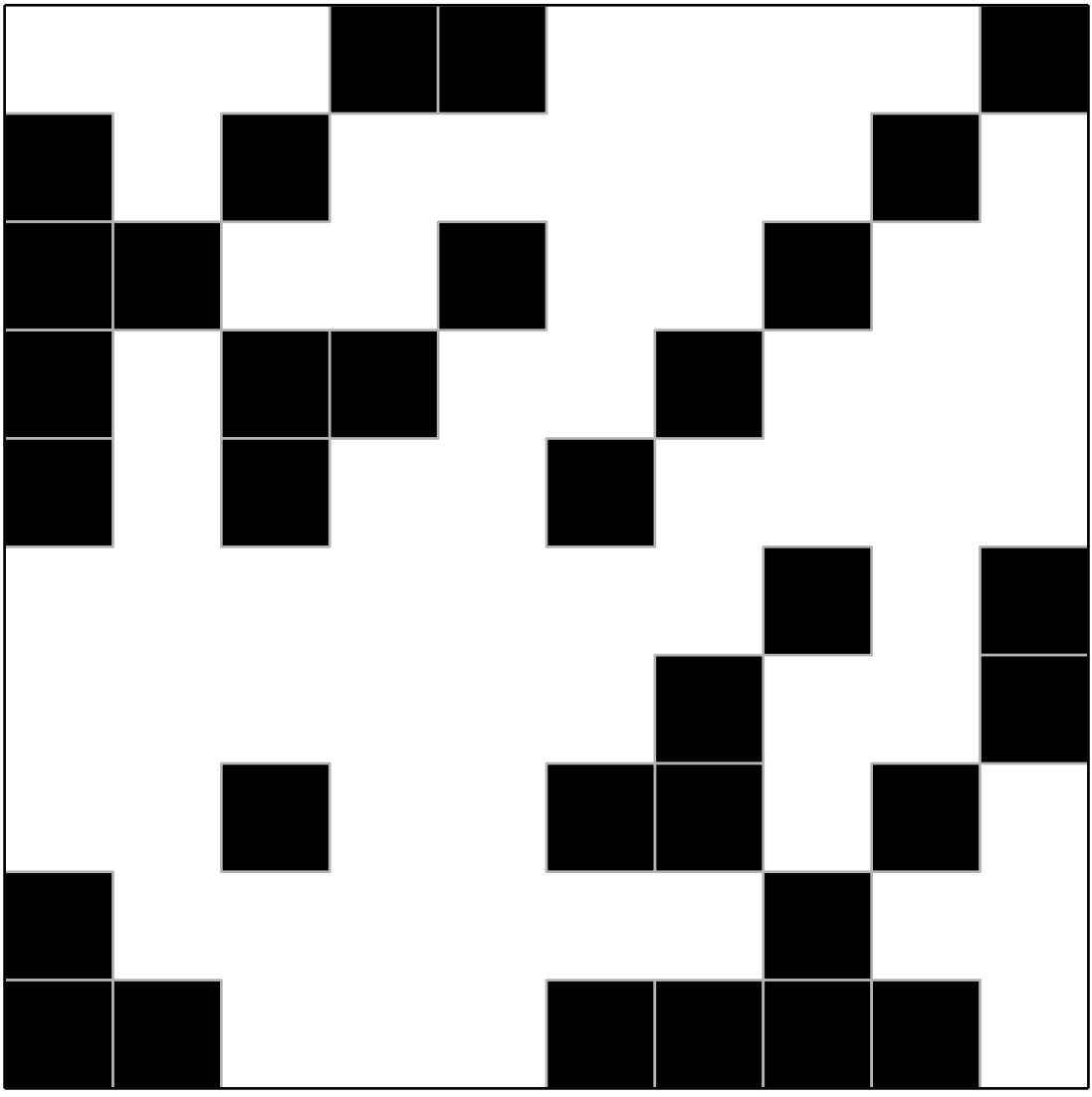


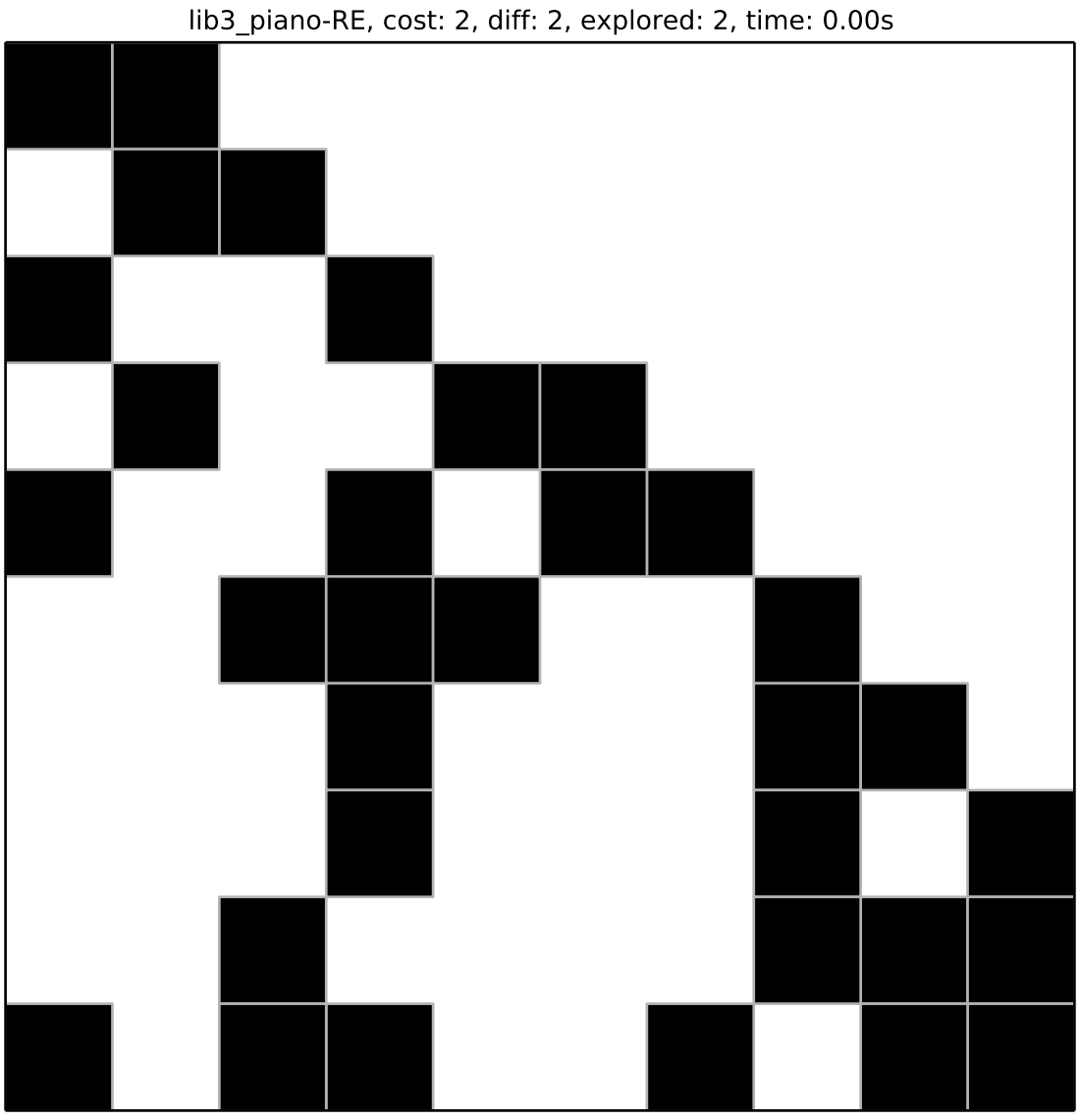
lib3_piano-IN 10x10 (33) con: 5, var: 5



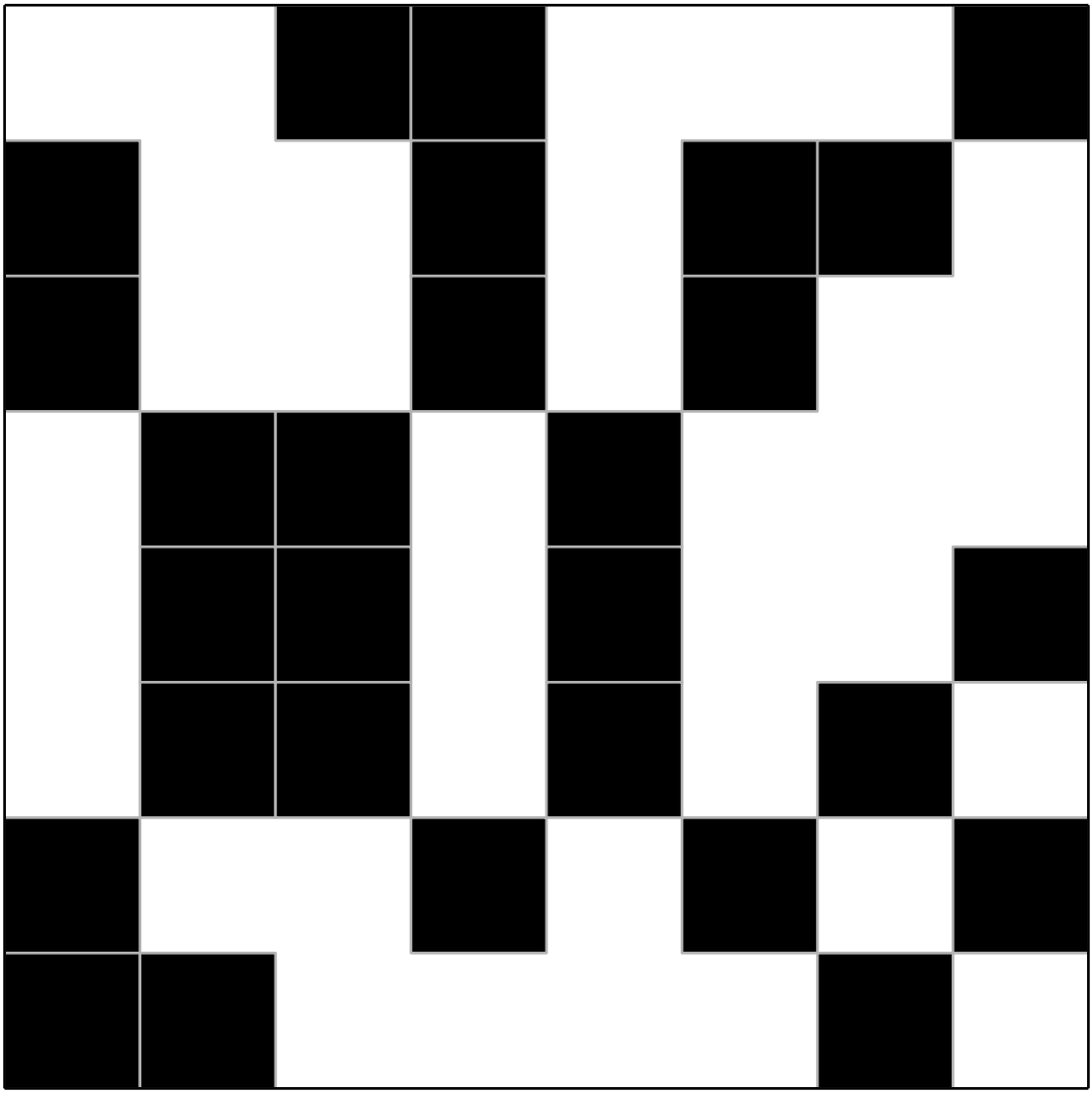

lib3_piano-IN, cost: 2, diff: 2, explored: 2, time: 0.00s

lib3_piano-RE 10x10 (33) con: 5, var: 5

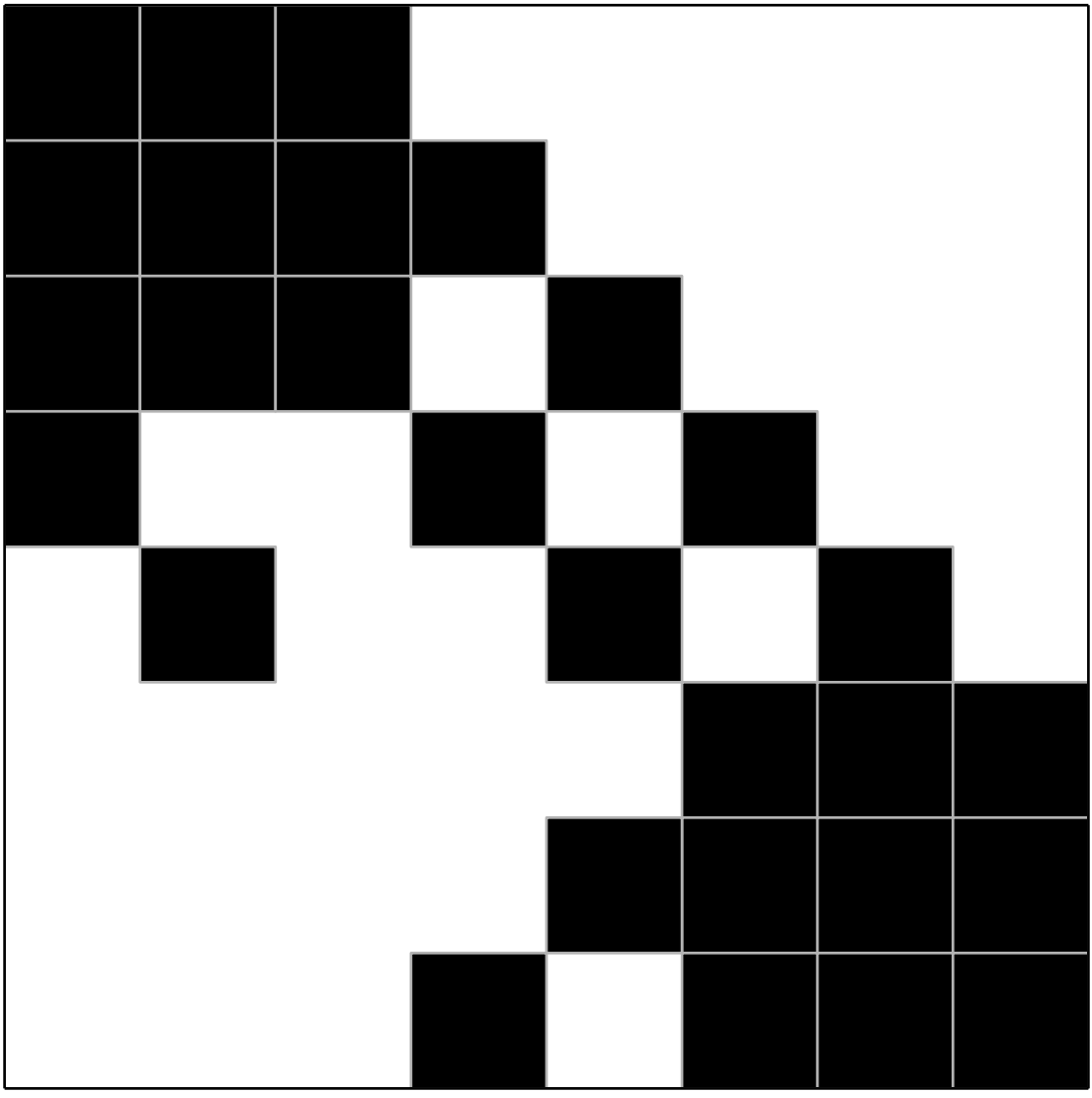



lib3_piano-RE, cost: 2, diff: 2, explored: 2, time: 0.00s

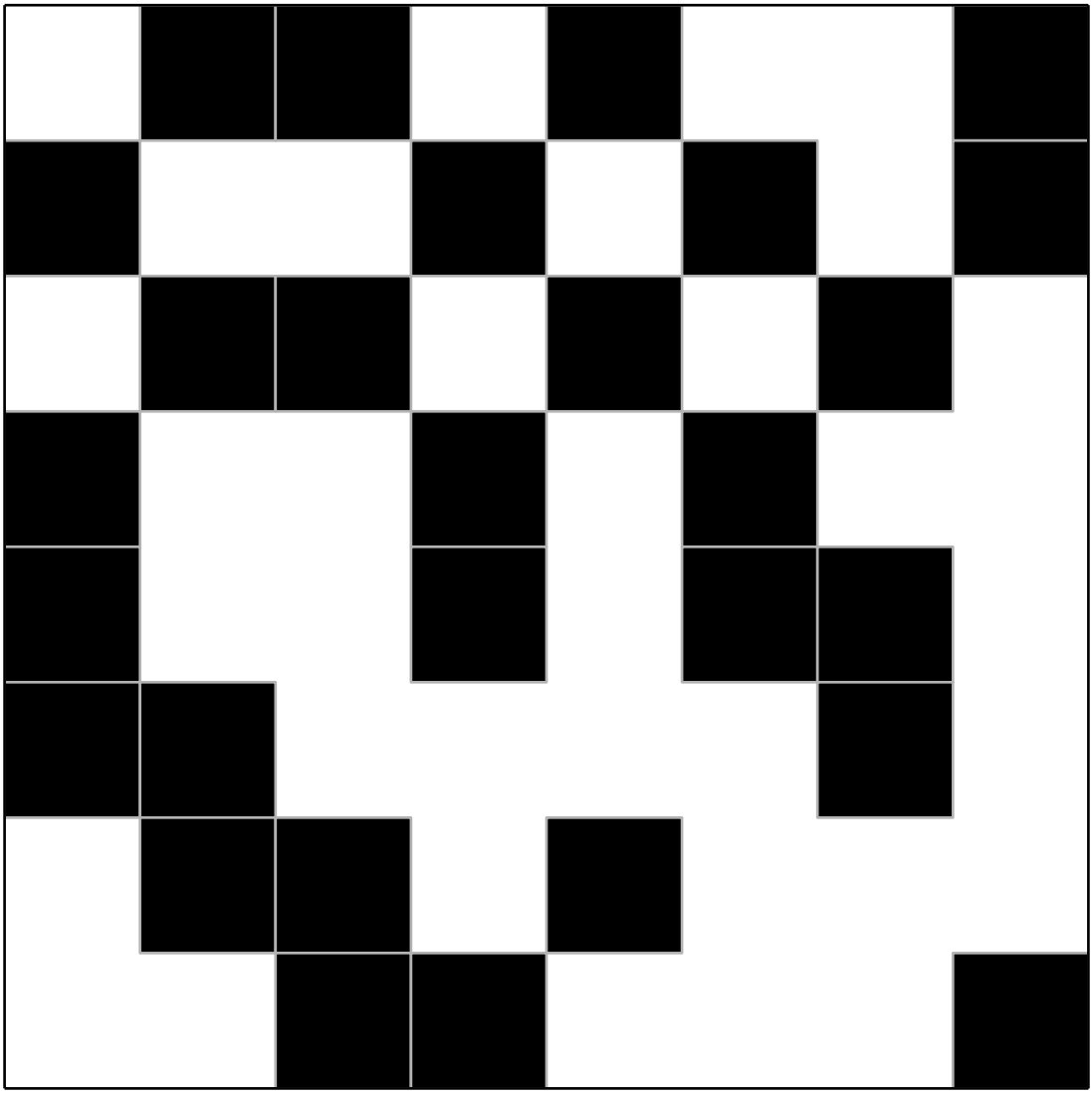
lib3_powell-00 8x8 (28) con: 4, var: 4

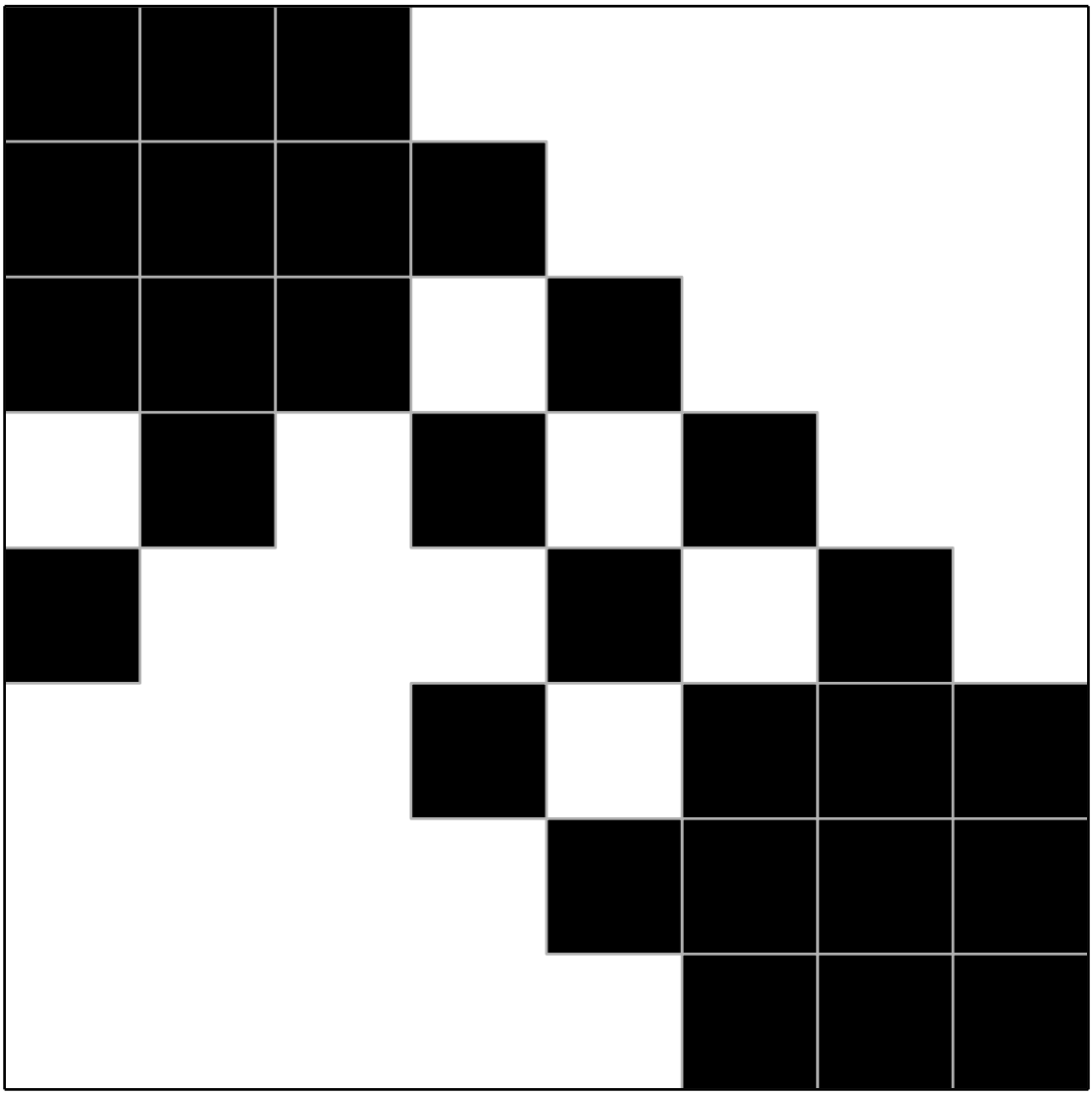


lib3_powell-00, cost: 2, diff: 2, explored: 2, time: 0.00s

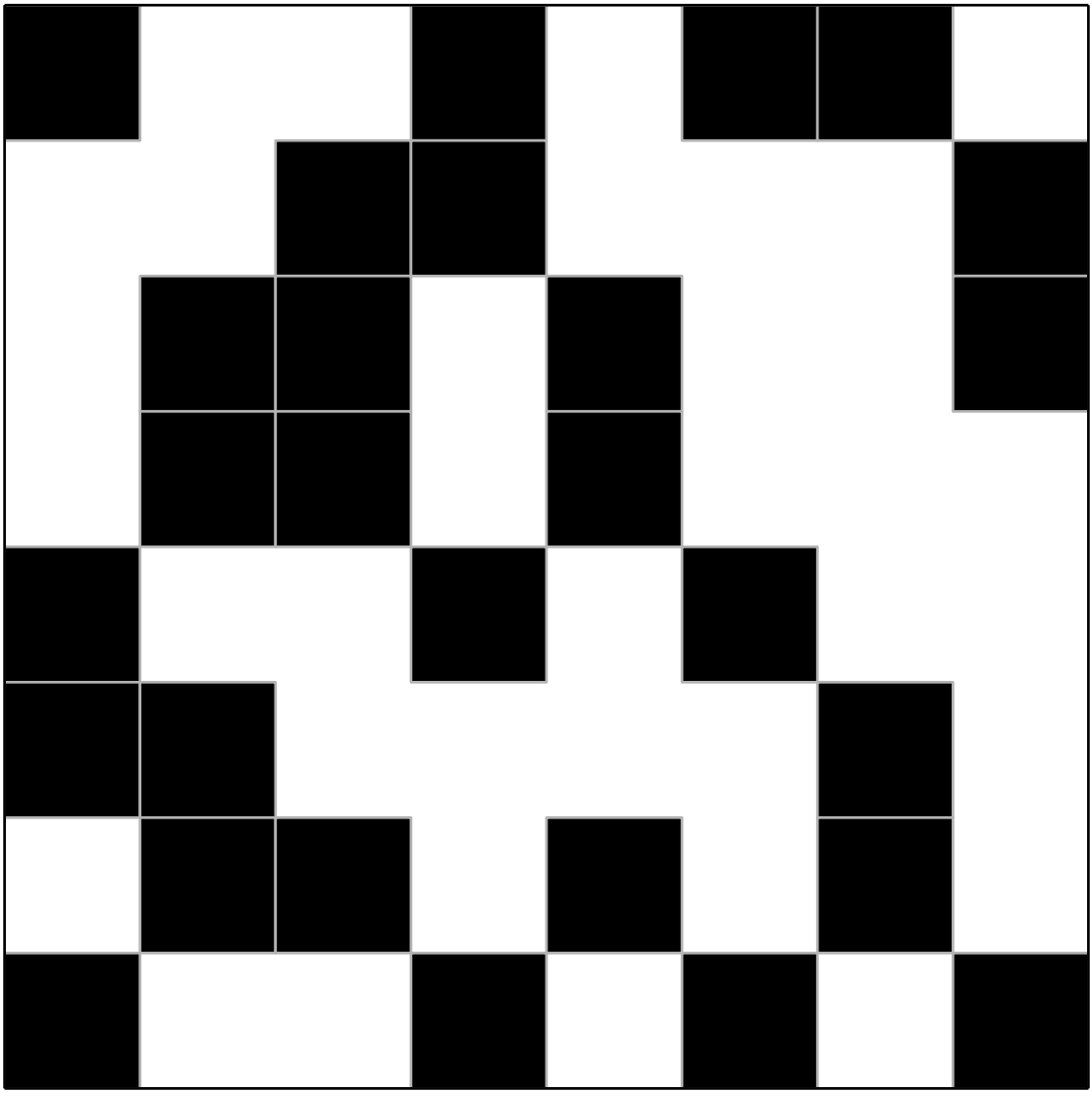


lib3_powell-01 8x8 (28) con: 4, var: 4

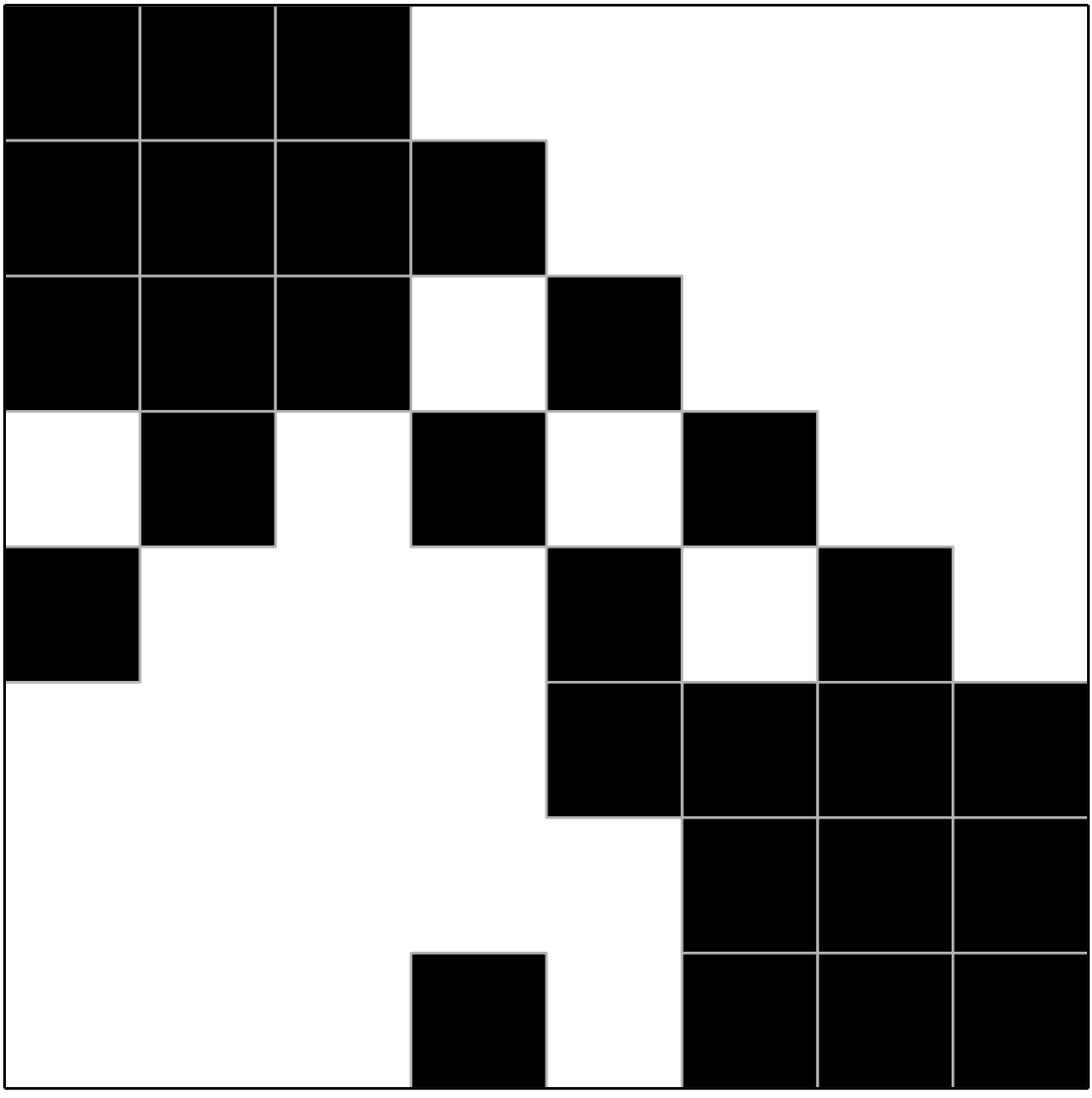



lib3_powell-01, cost: 2, diff: 2, explored: 0, time: 0.00s, M

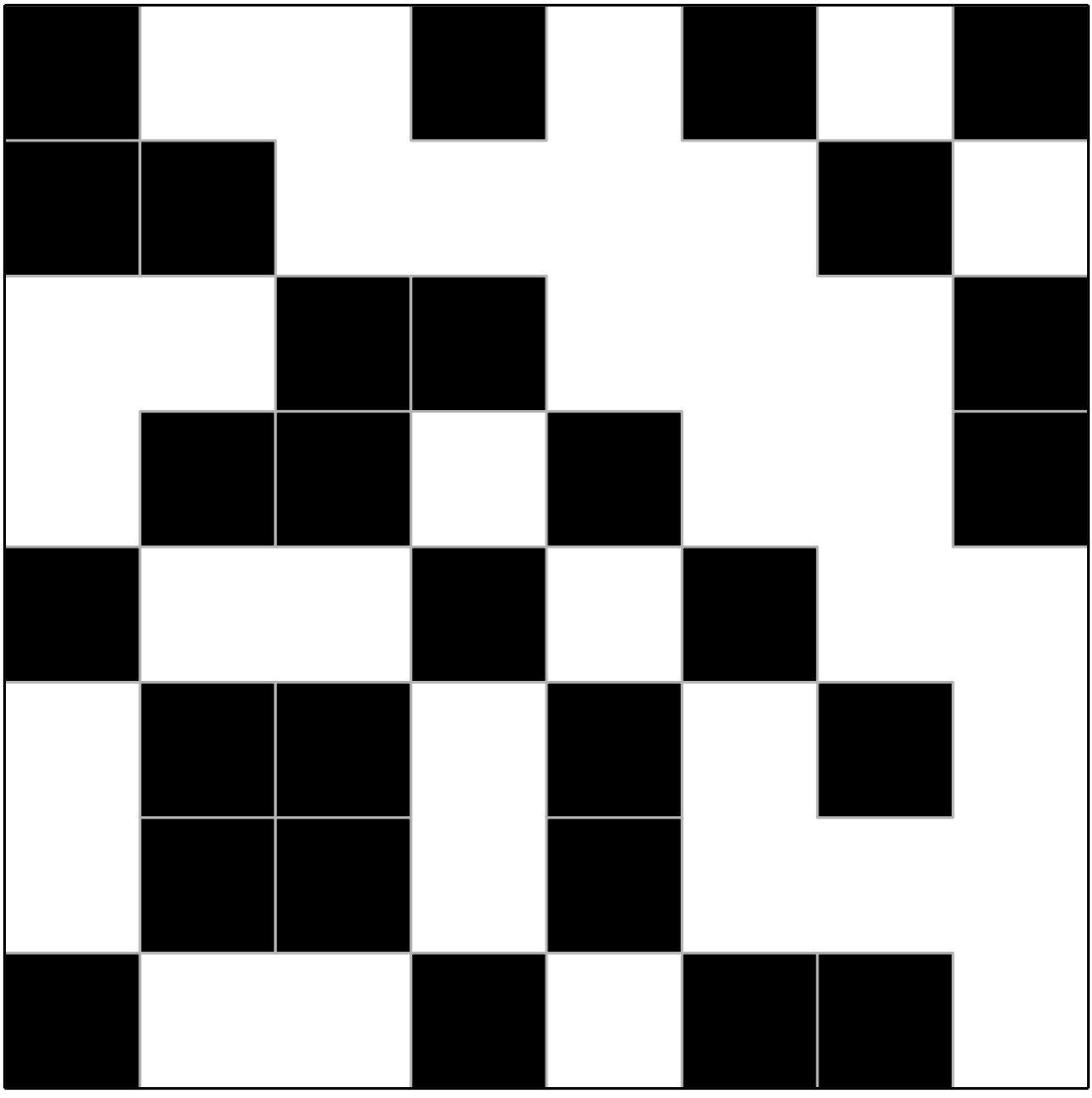
lib3_powell-02 8x8 (28) con: 4, var: 4



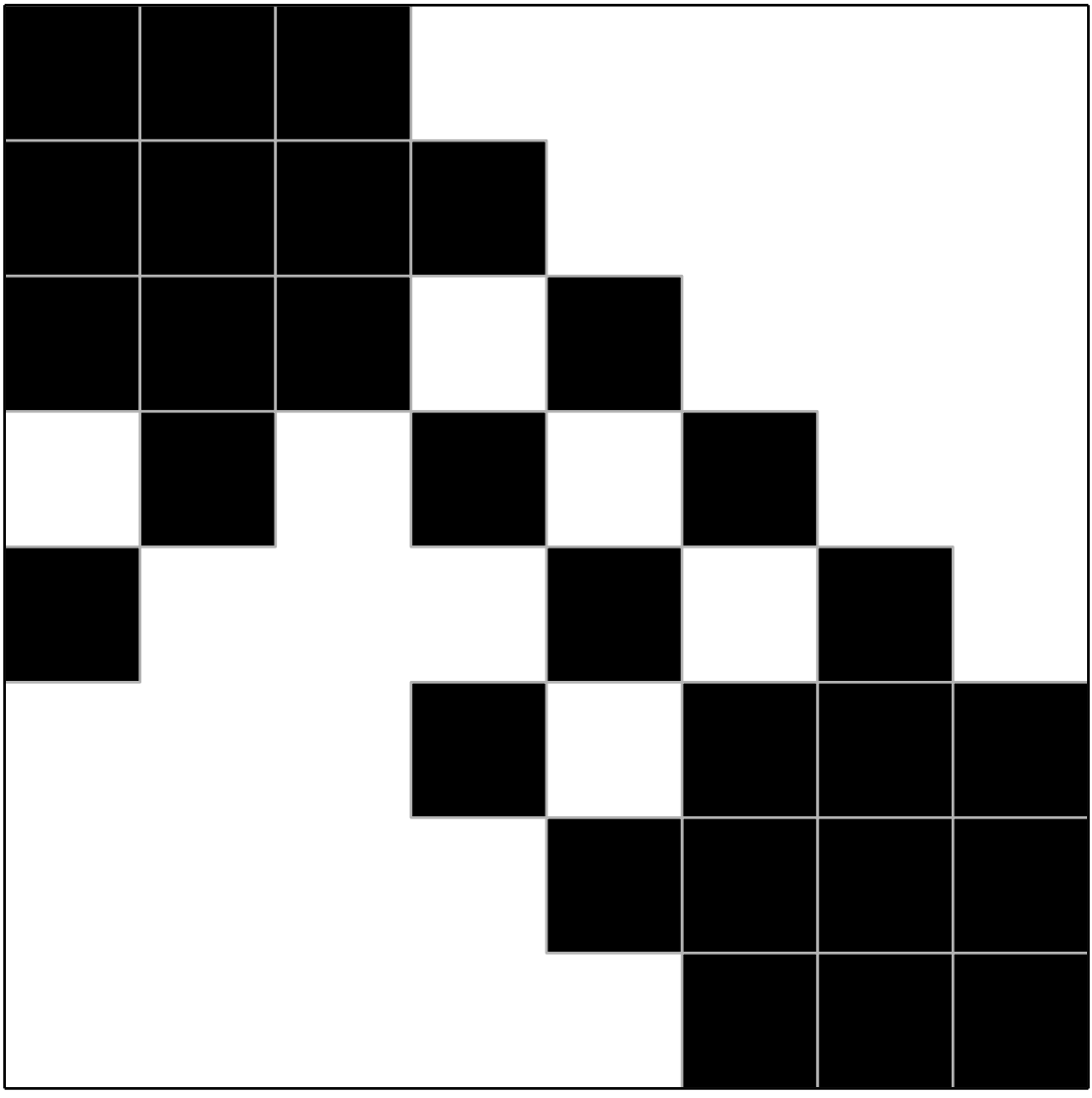
lib3_powell-02, cost: 2, diff: 2, explored: 2, time: 0.00s



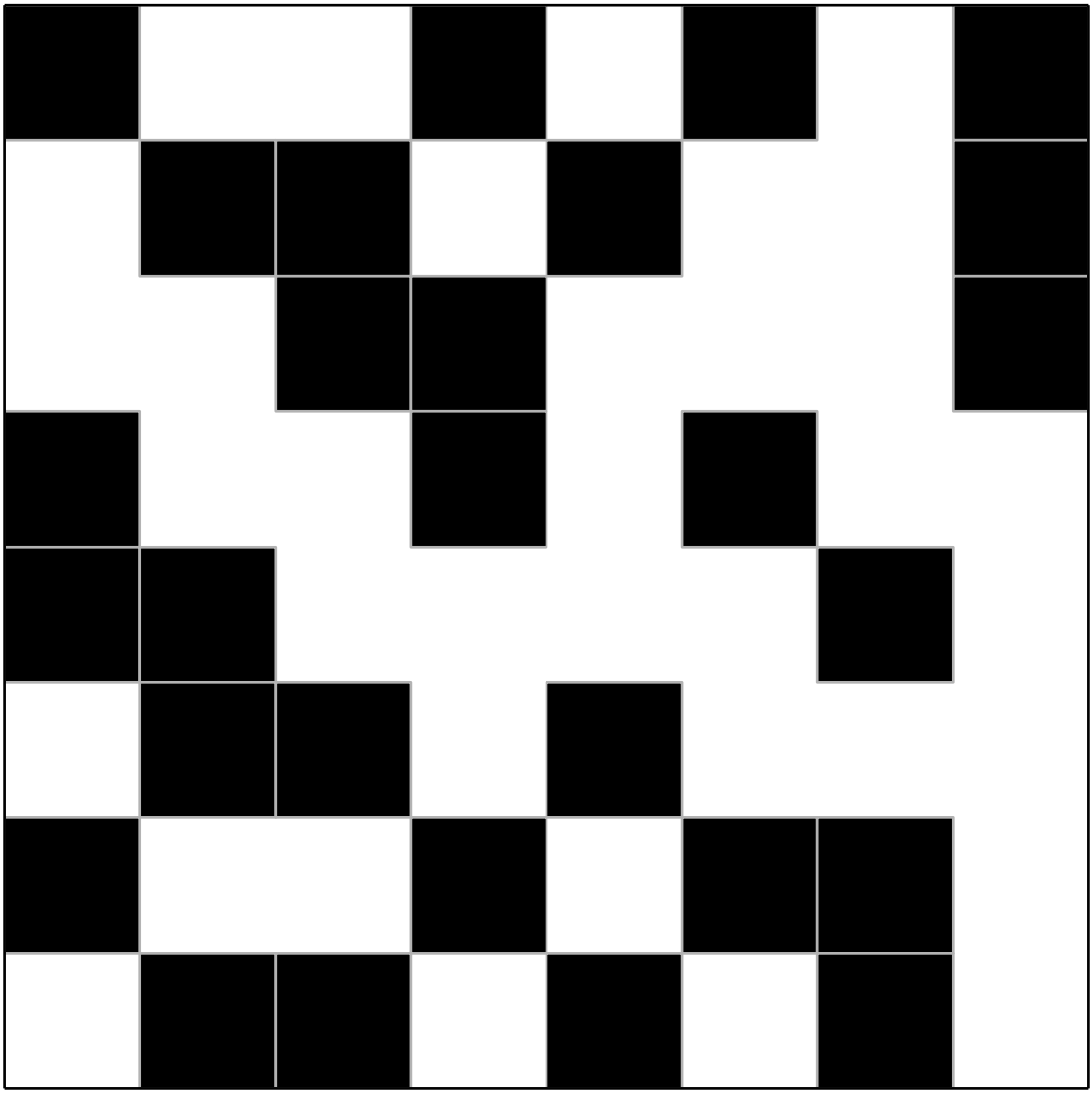
lib3_powell-03 8x8 (28) con: 4, var: 4



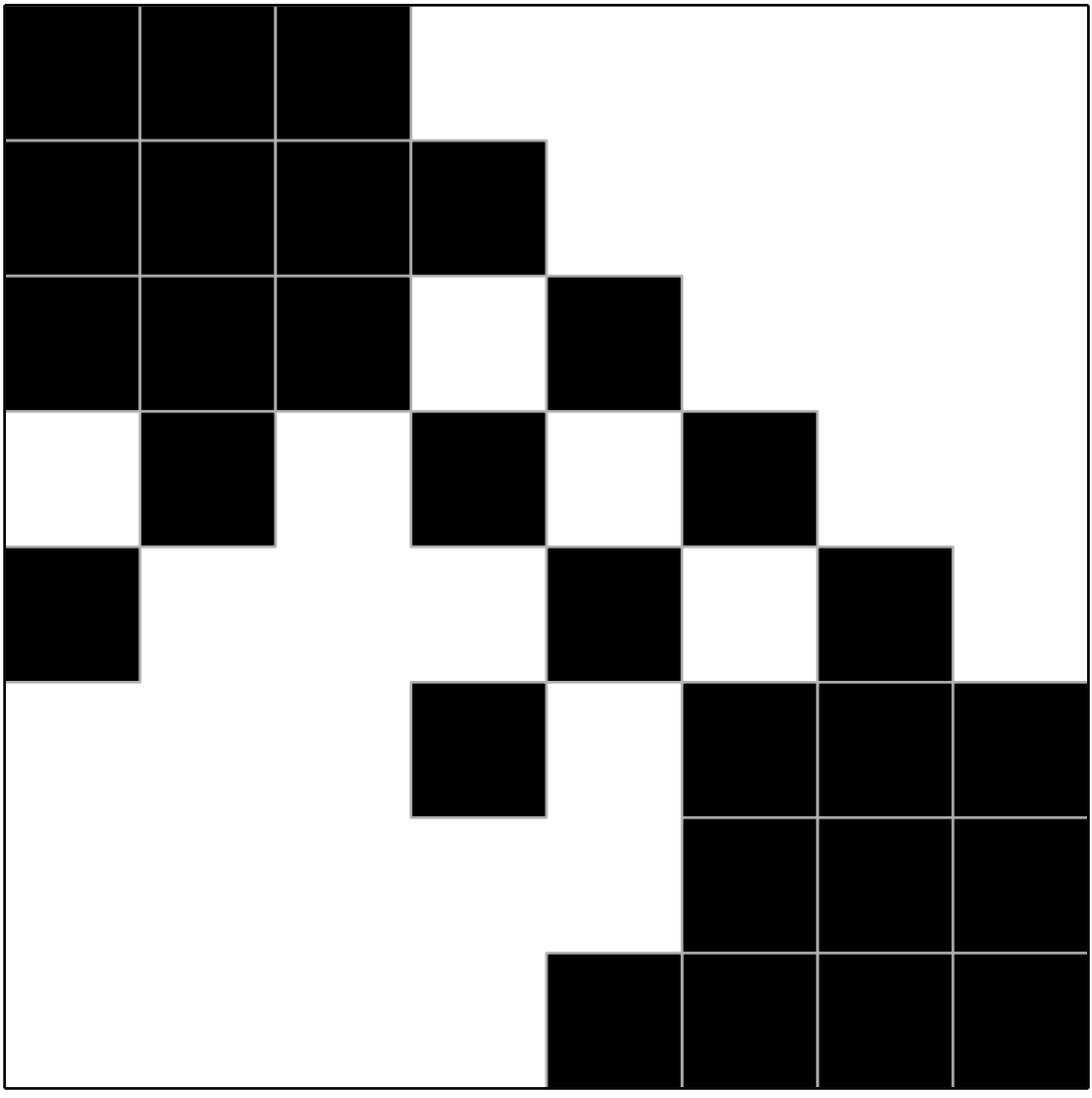
lib3_powell-03, cost: 2, diff: 2, explored: 3, time: 0.00s



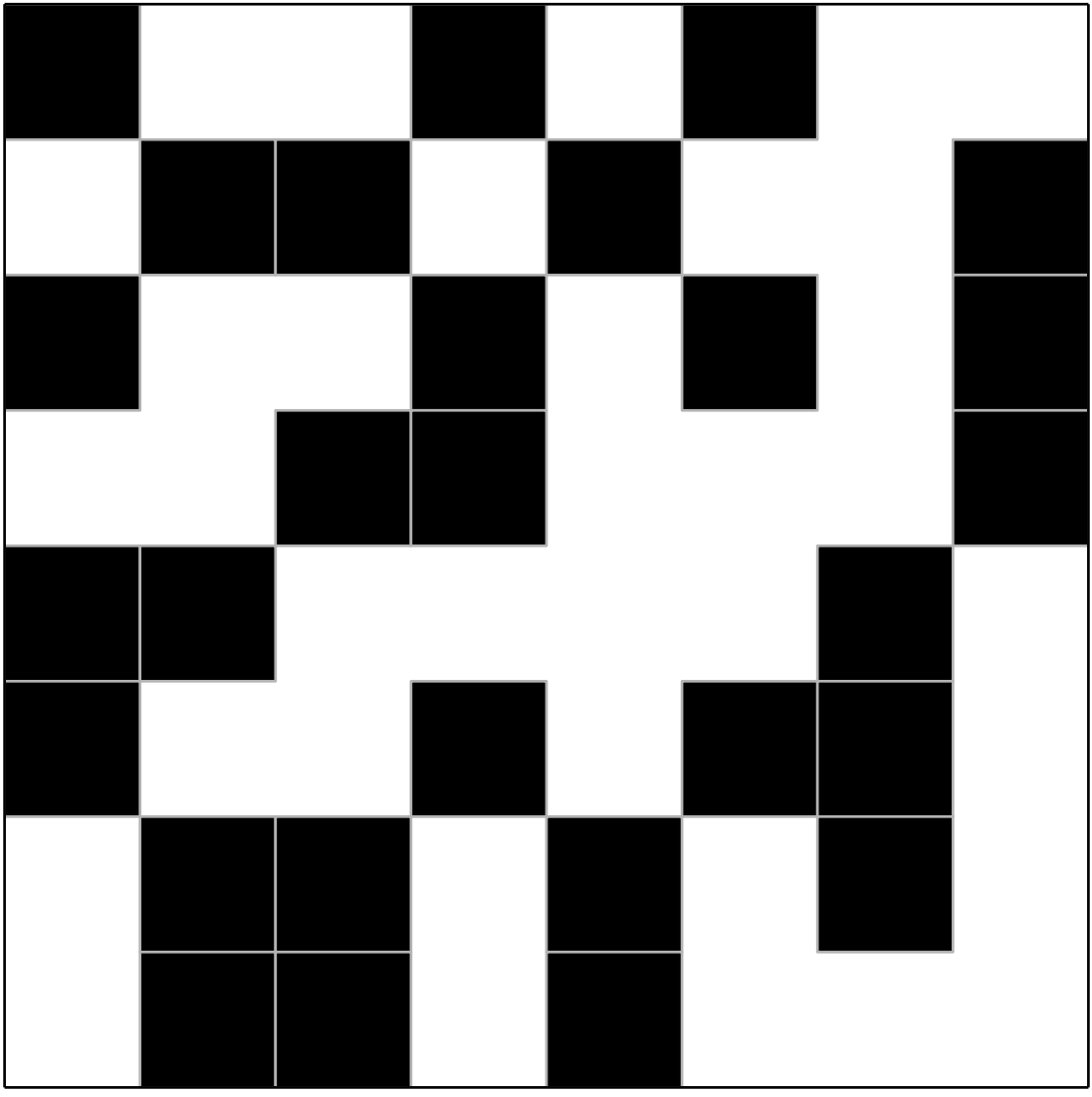
lib3_powell-04 8x8 (28) con: 4, var: 4



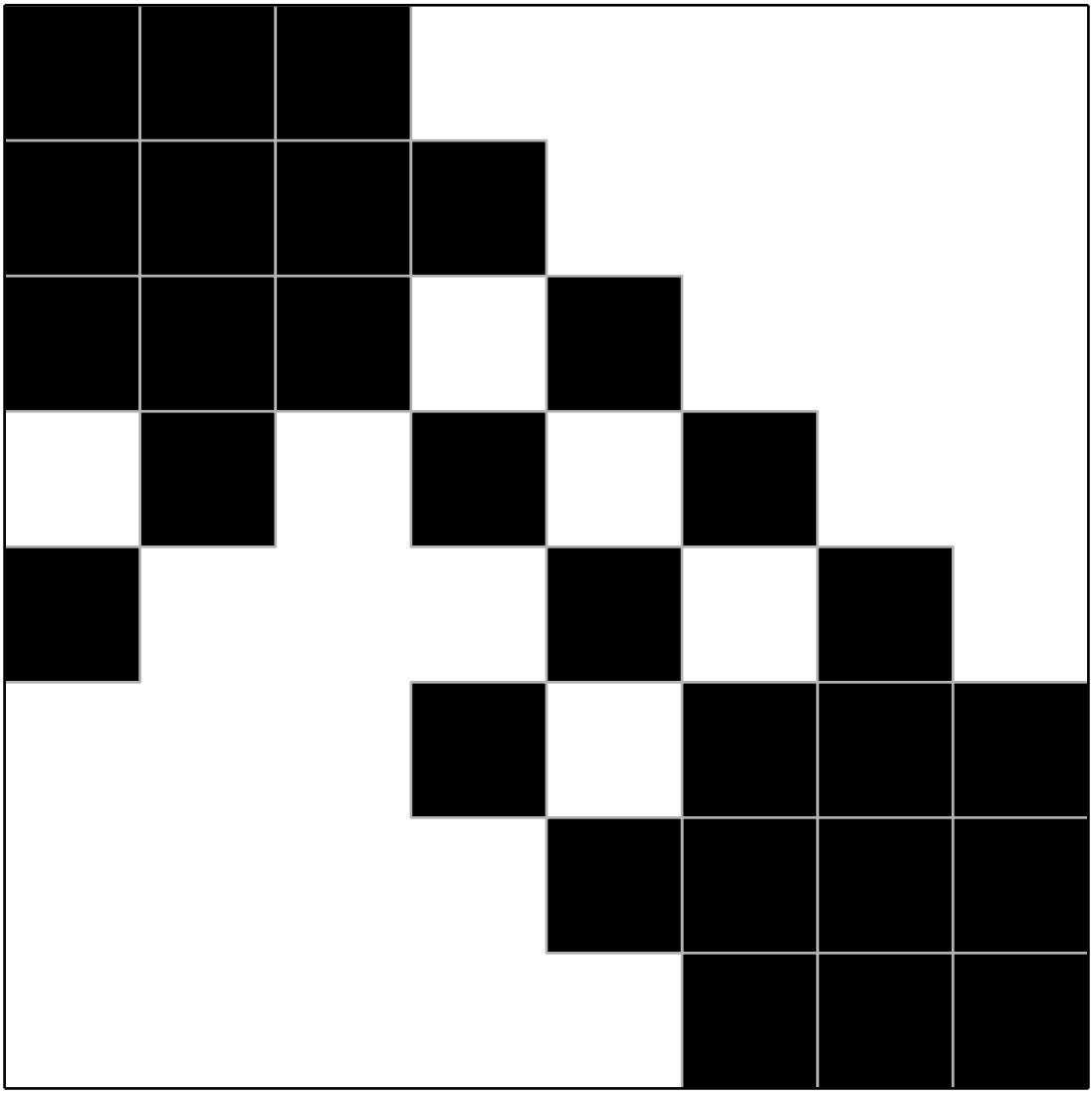
lib3_powell-04, cost: 2, diff: 2, explored: 2, time: 0.00s



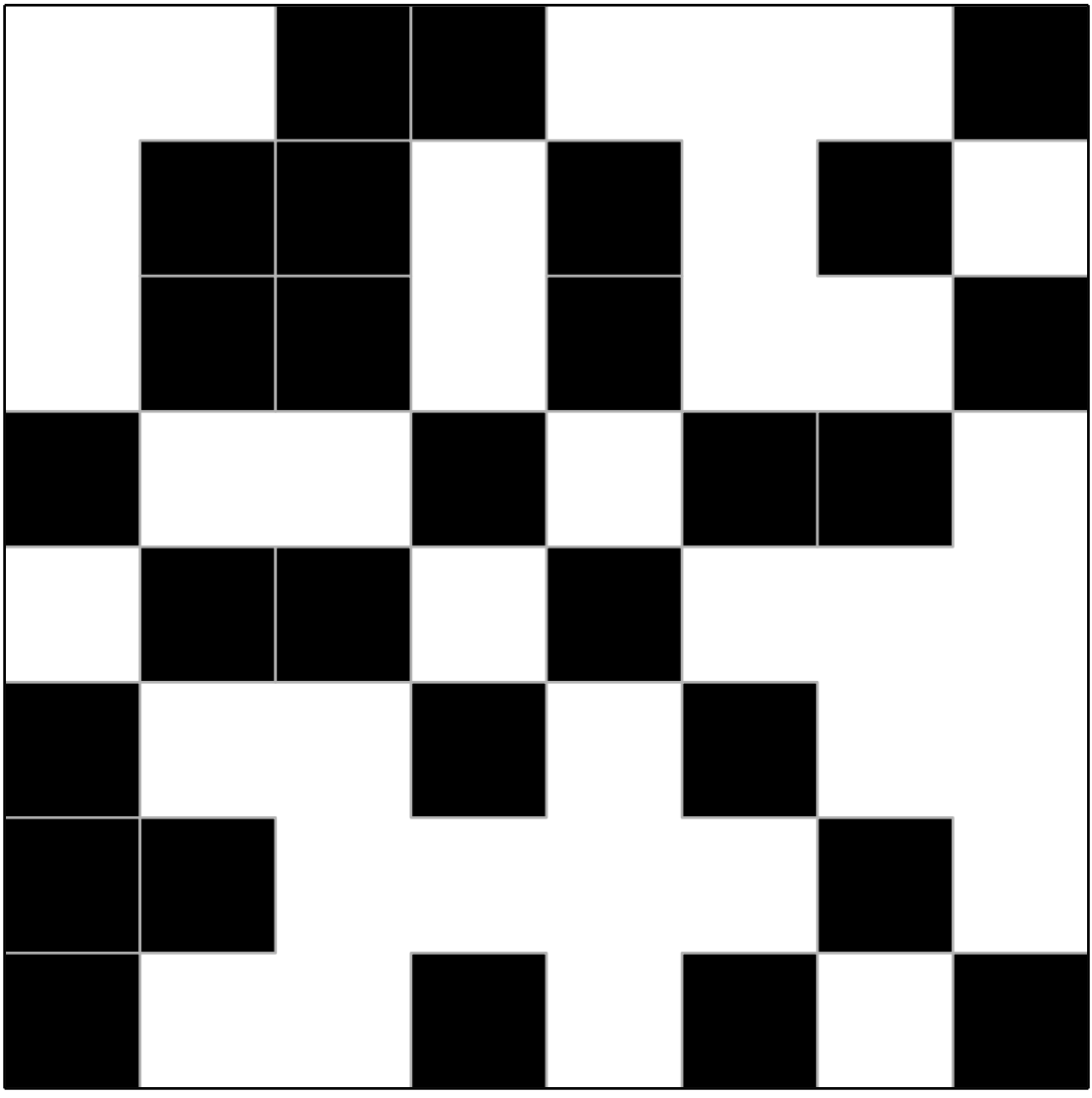
lib3_powell-05 8x8 (28) con: 4, var: 4



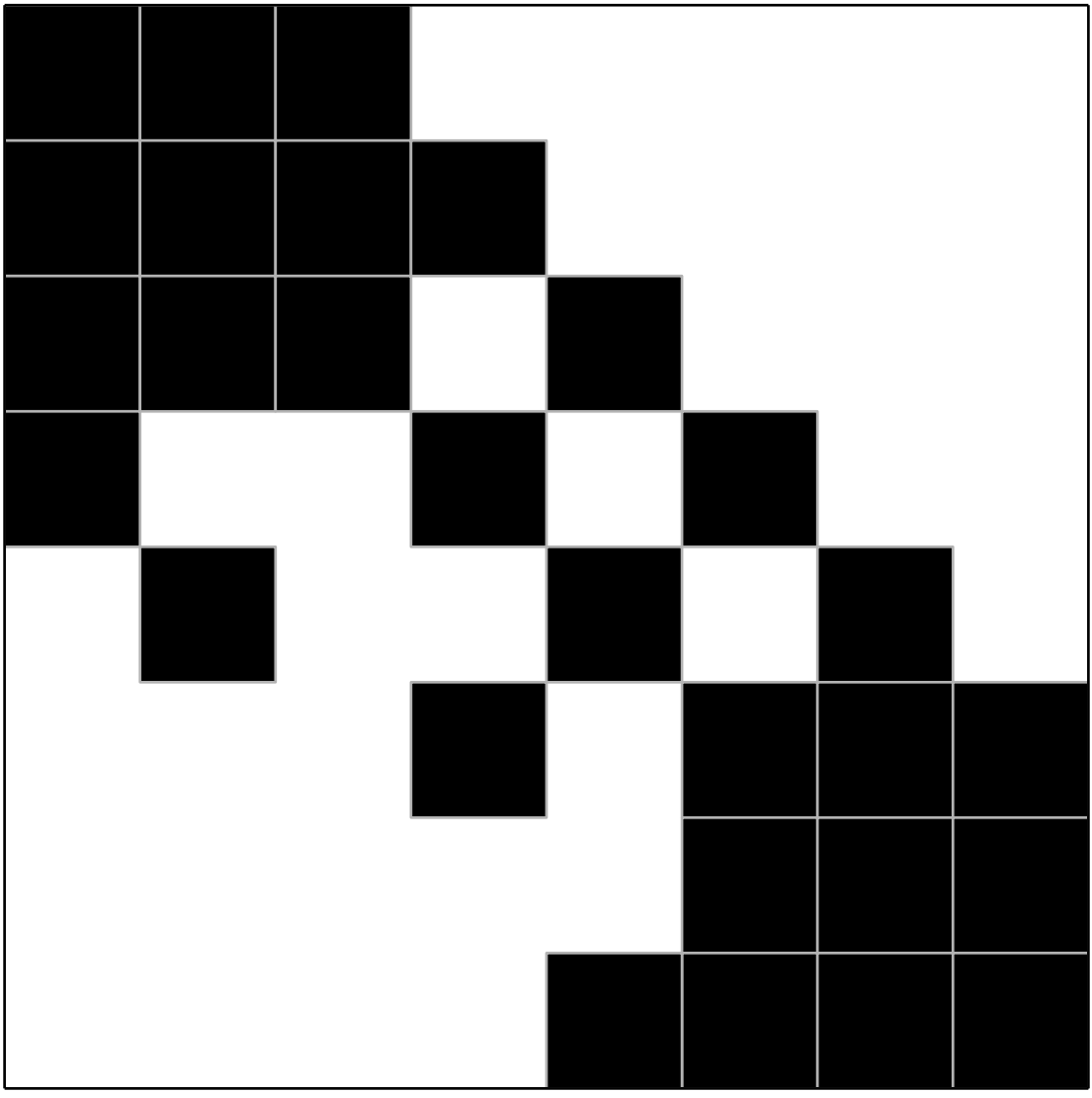
lib3_powell-05, cost: 2, diff: 2, explored: 0, time: 0.00s, M



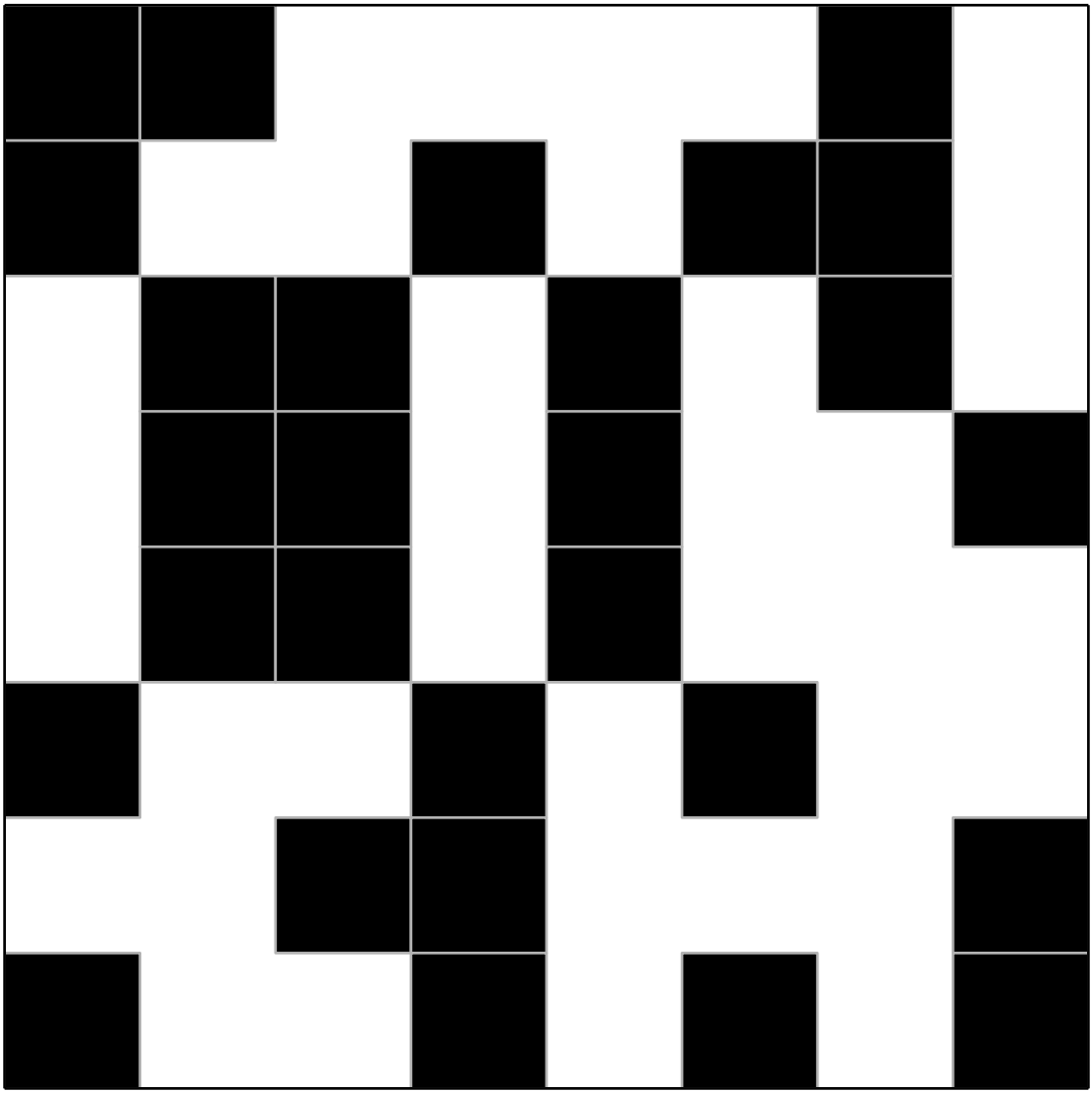
lib3_powell-06 8x8 (28) con: 4, var: 4



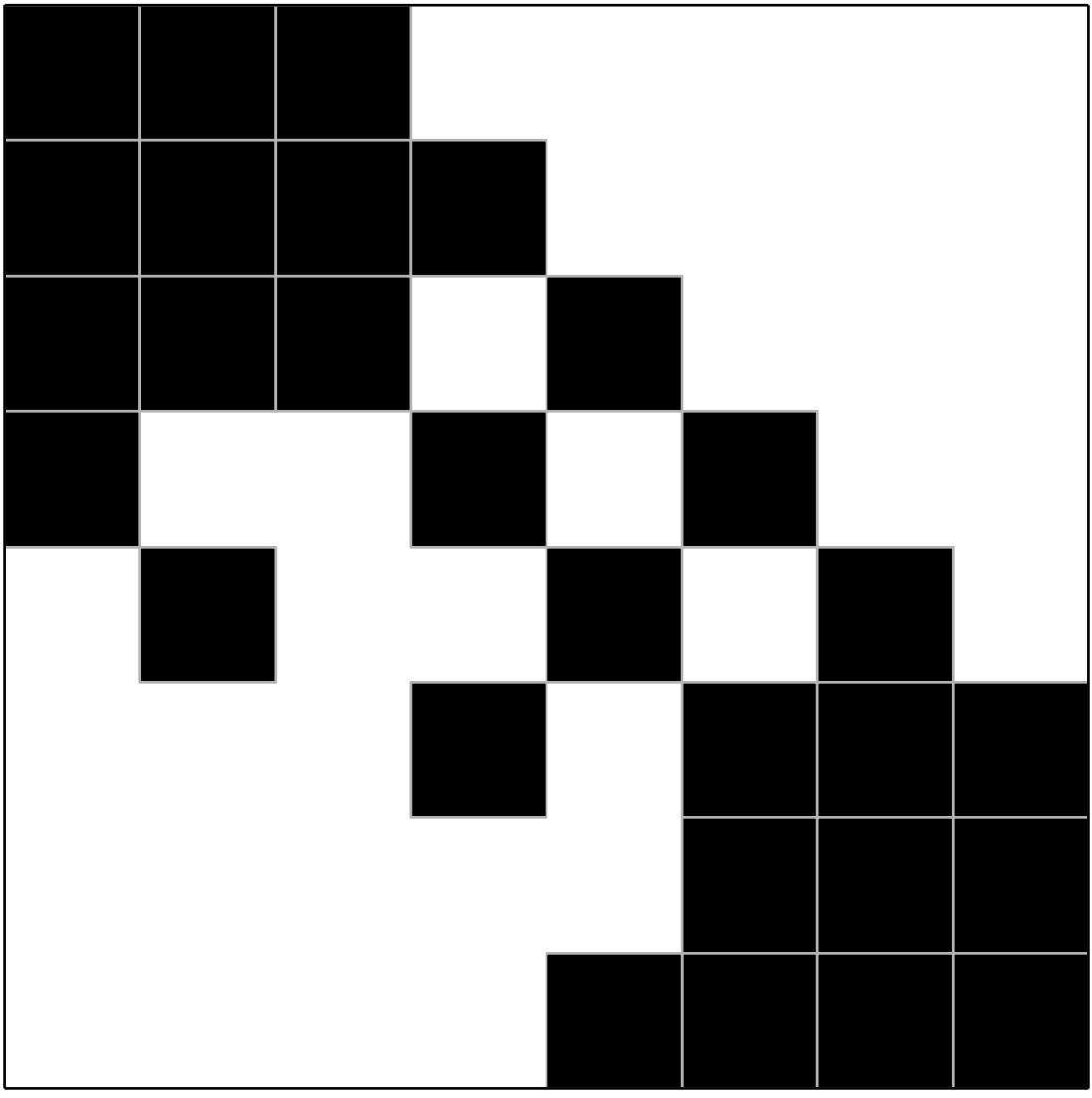
lib3_powell-06, cost: 2, diff: 2, explored: 2, time: 0.00s

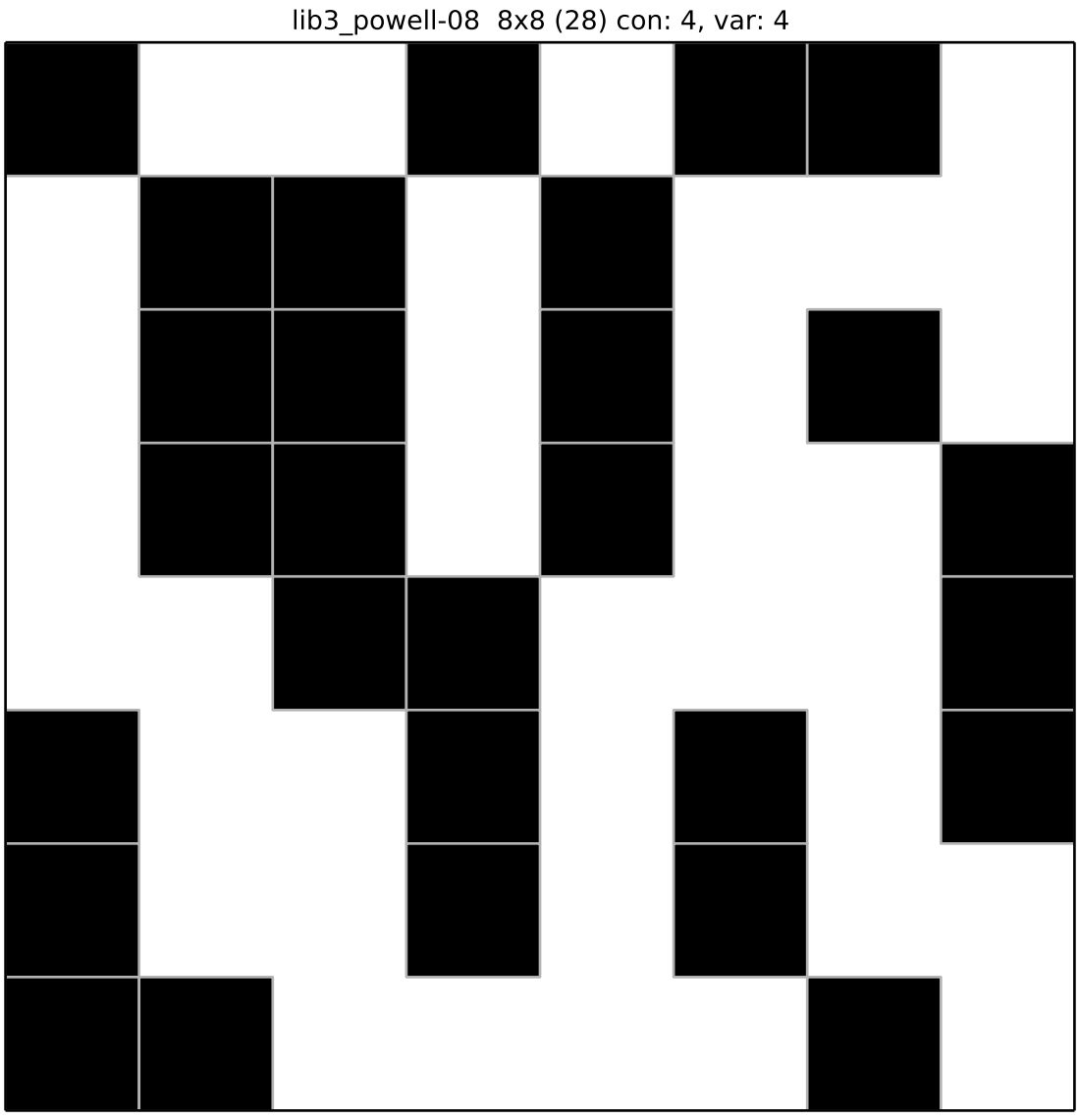


lib3_powell-07 8x8 (28) con: 4, var: 4

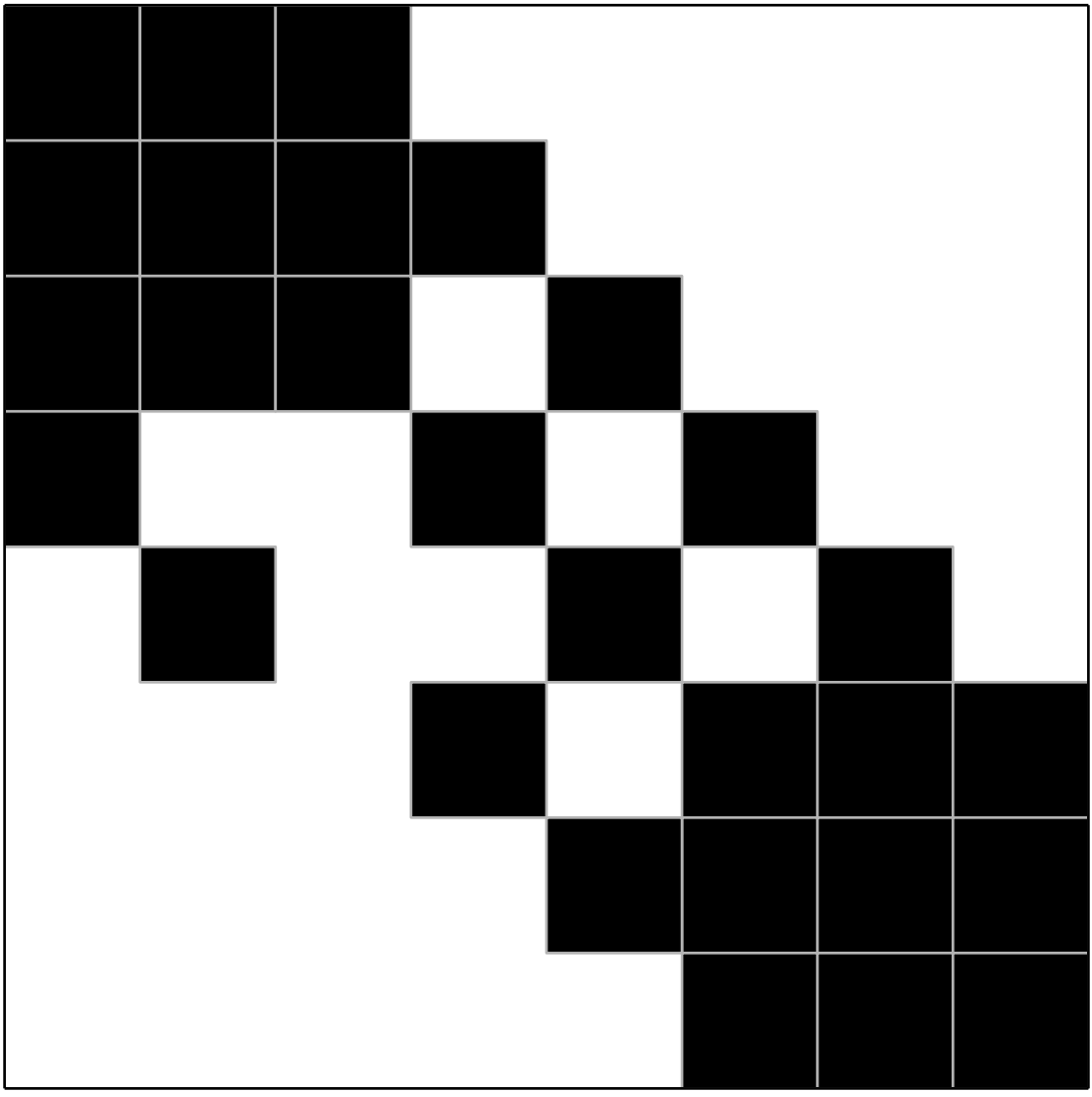


lib3_powell-07, cost: 2, diff: 2, explored: 2, time: 0.00s

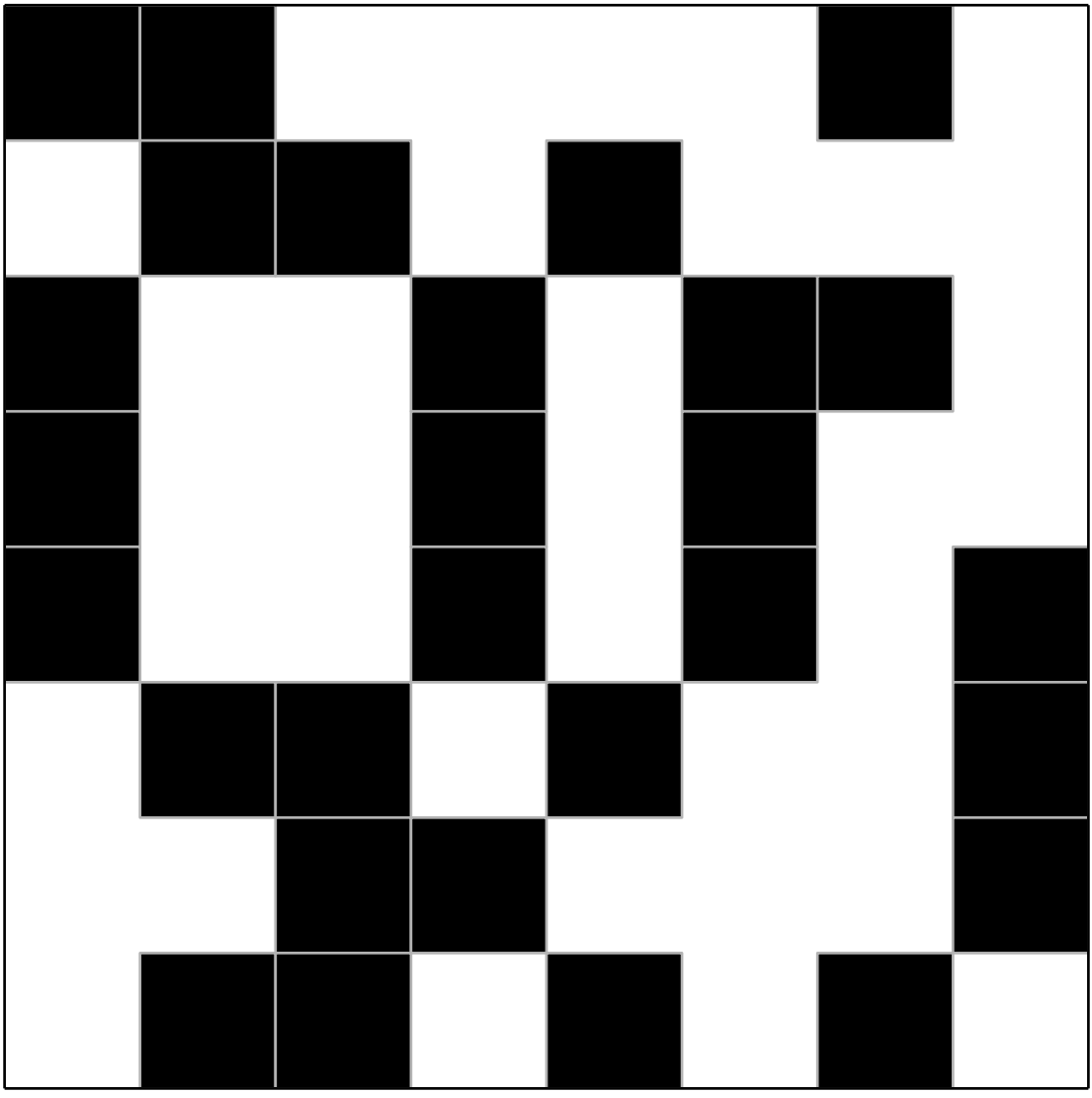



lib3_powell-08 8x8 (28) con: 4, var: 4

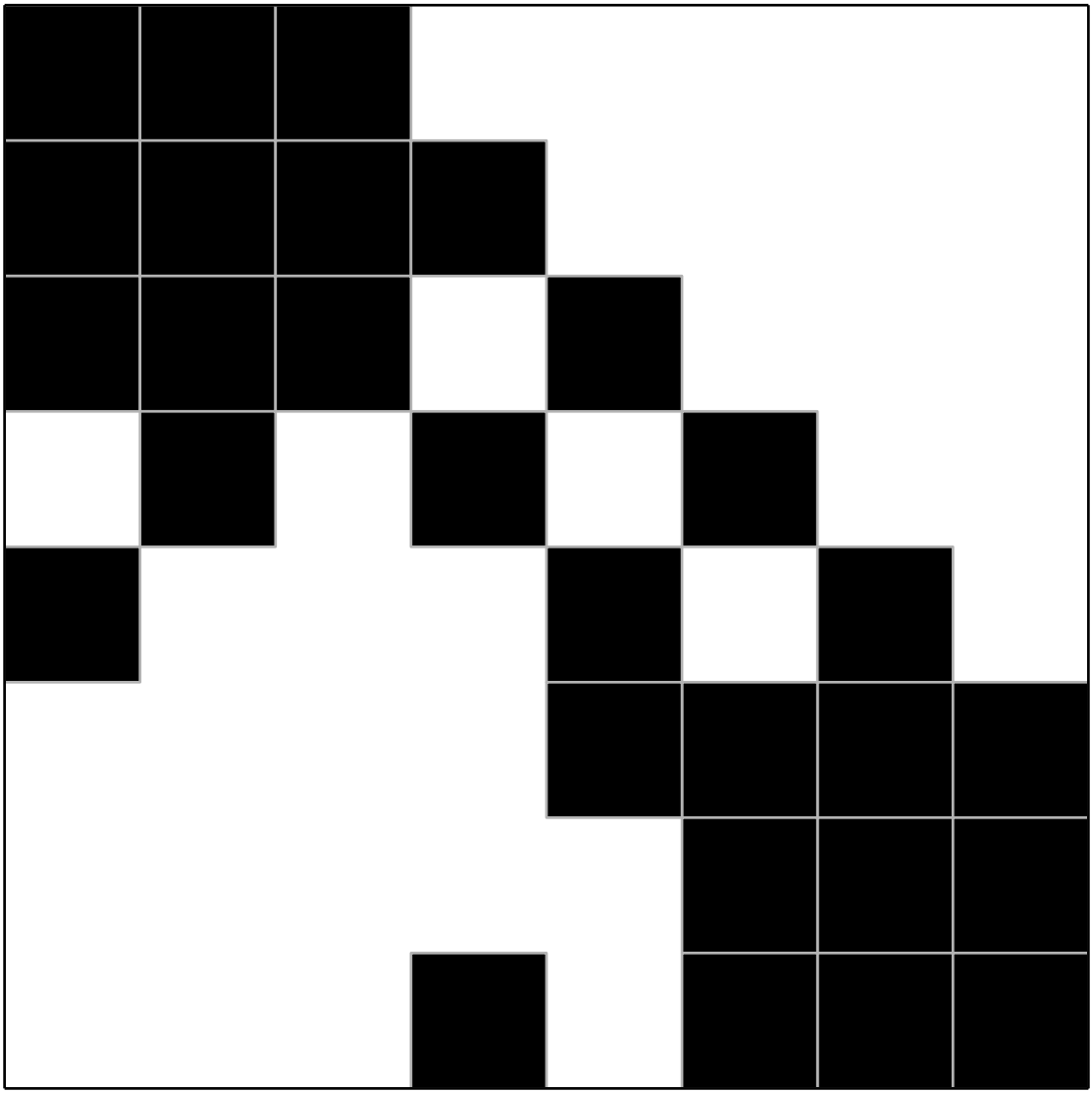
lib3_powell-08, cost: 2, diff: 2, explored: 0, time: 0.00s, M



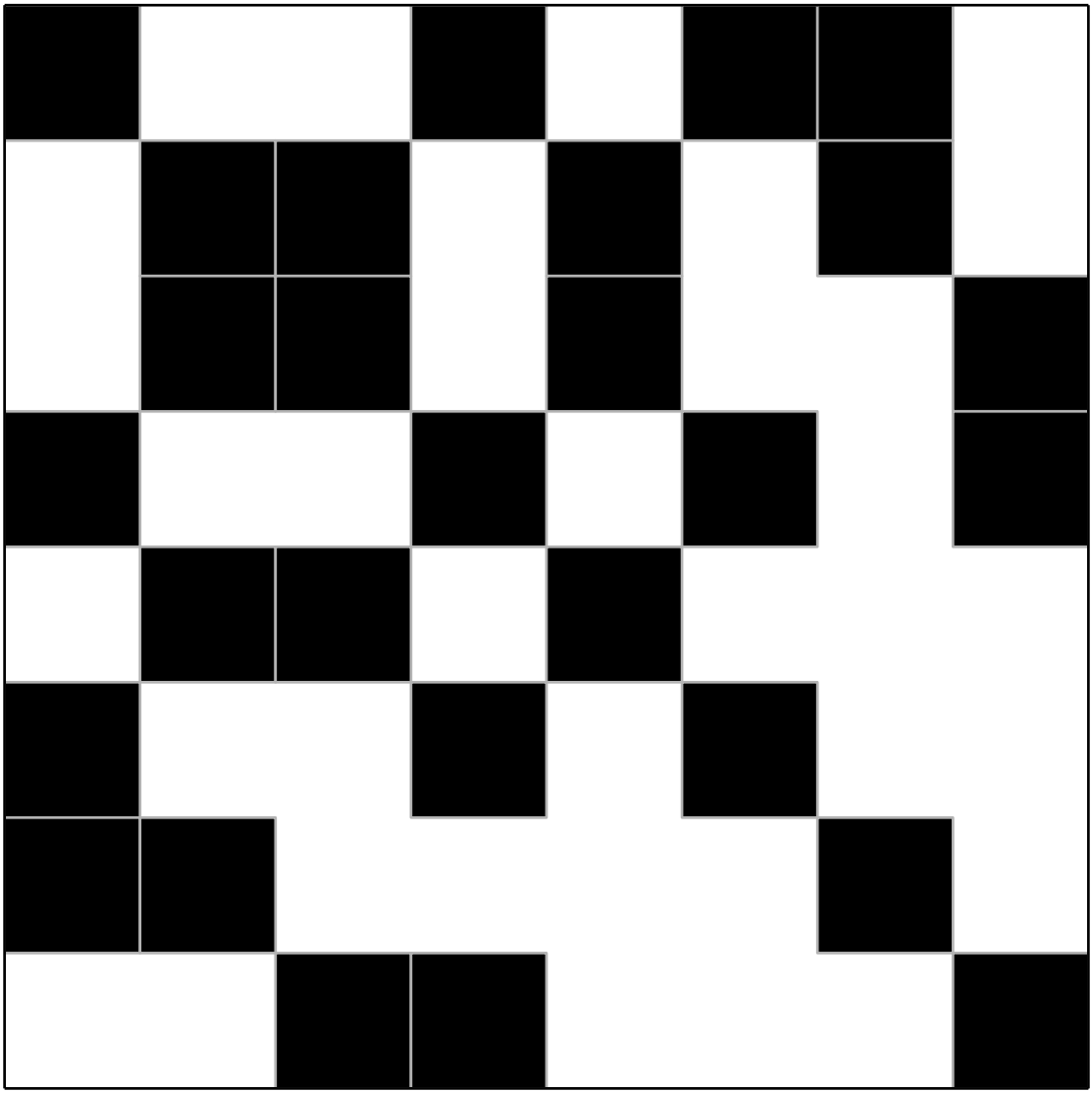
lib3_powell-09 8x8 (28) con: 4, var: 4

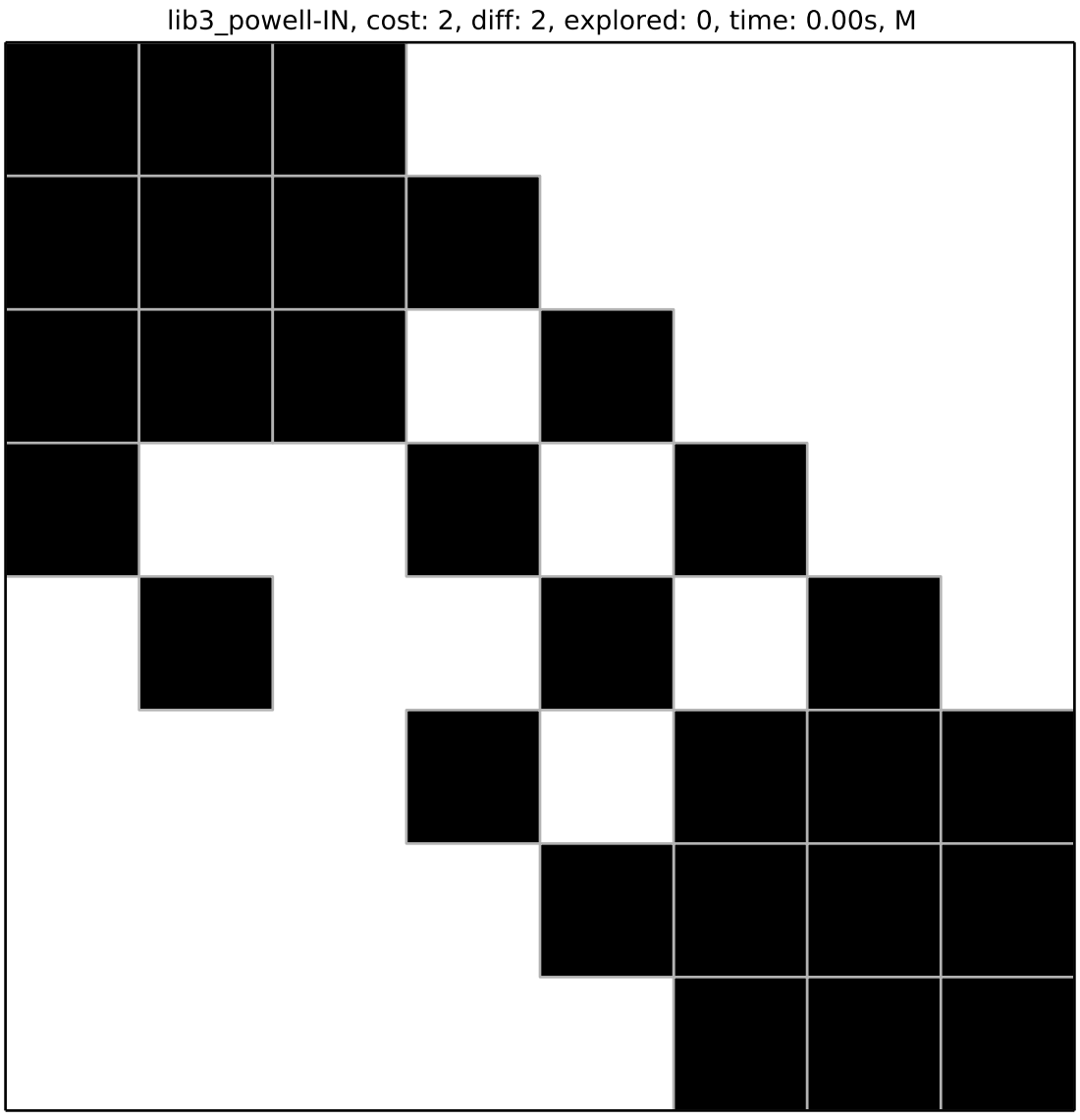


lib3_powell-09, cost: 2, diff: 2, explored: 2, time: 0.00s

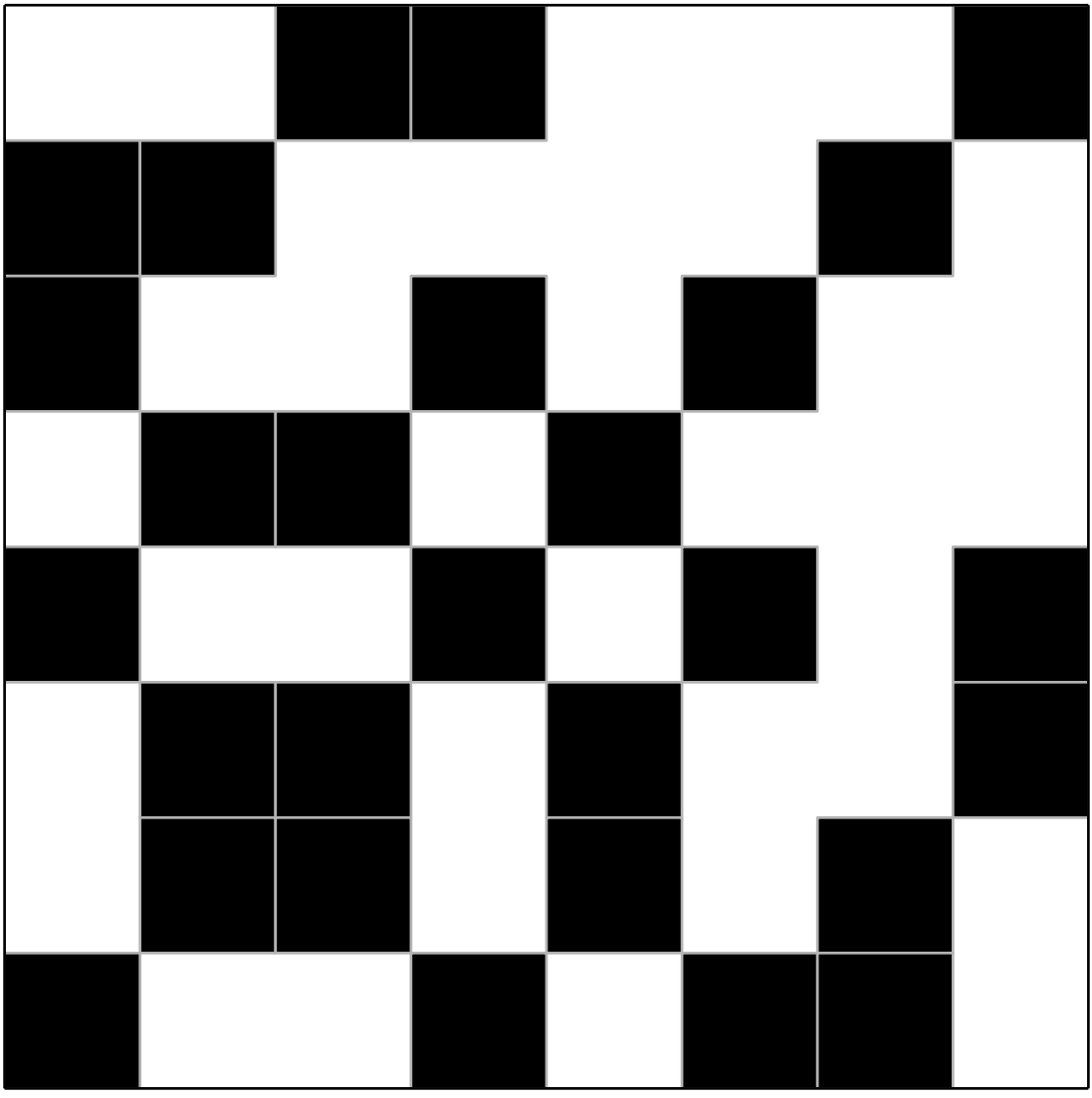


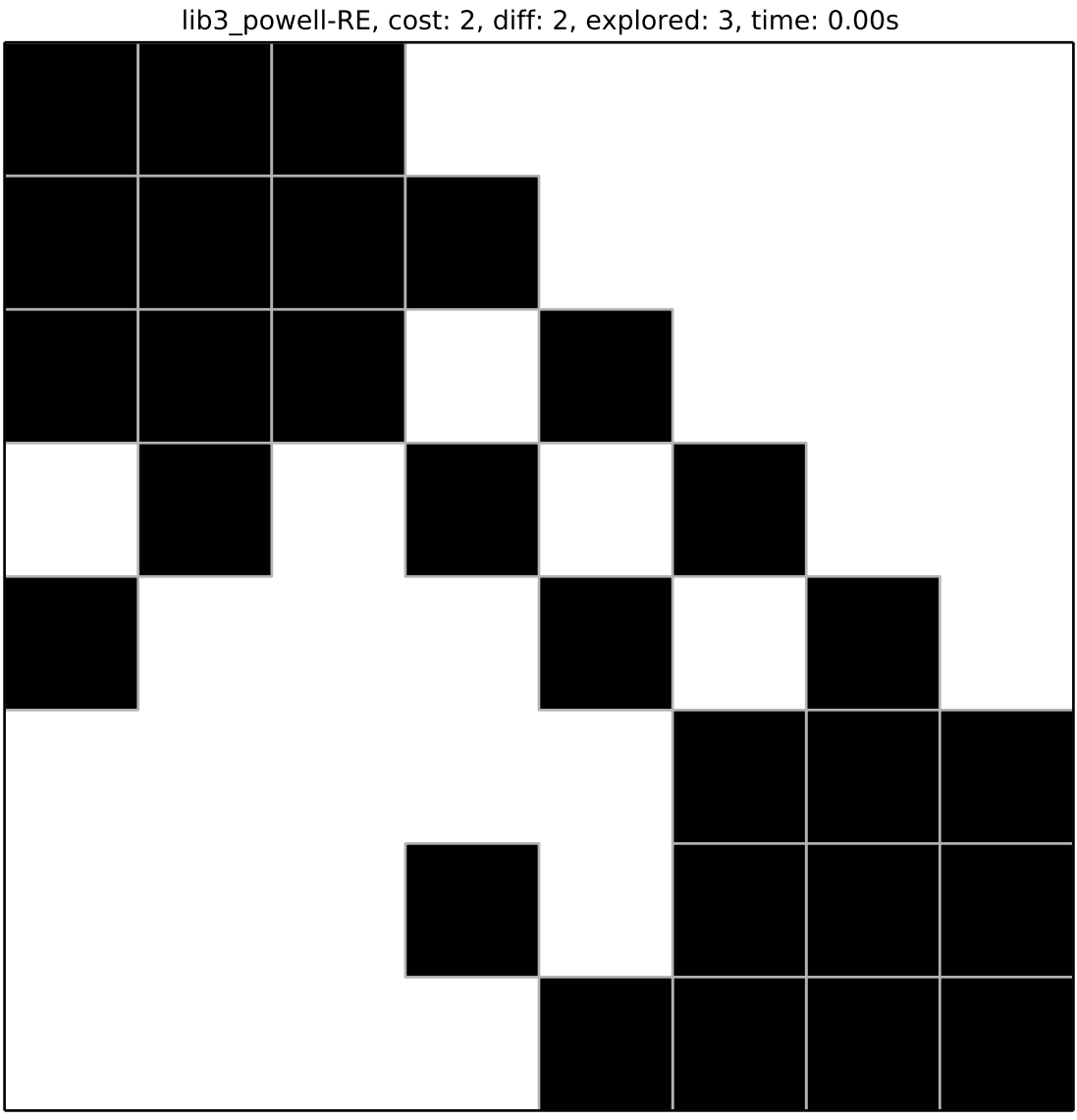
lib3_powell-IN 8x8 (28) con: 4, var: 4



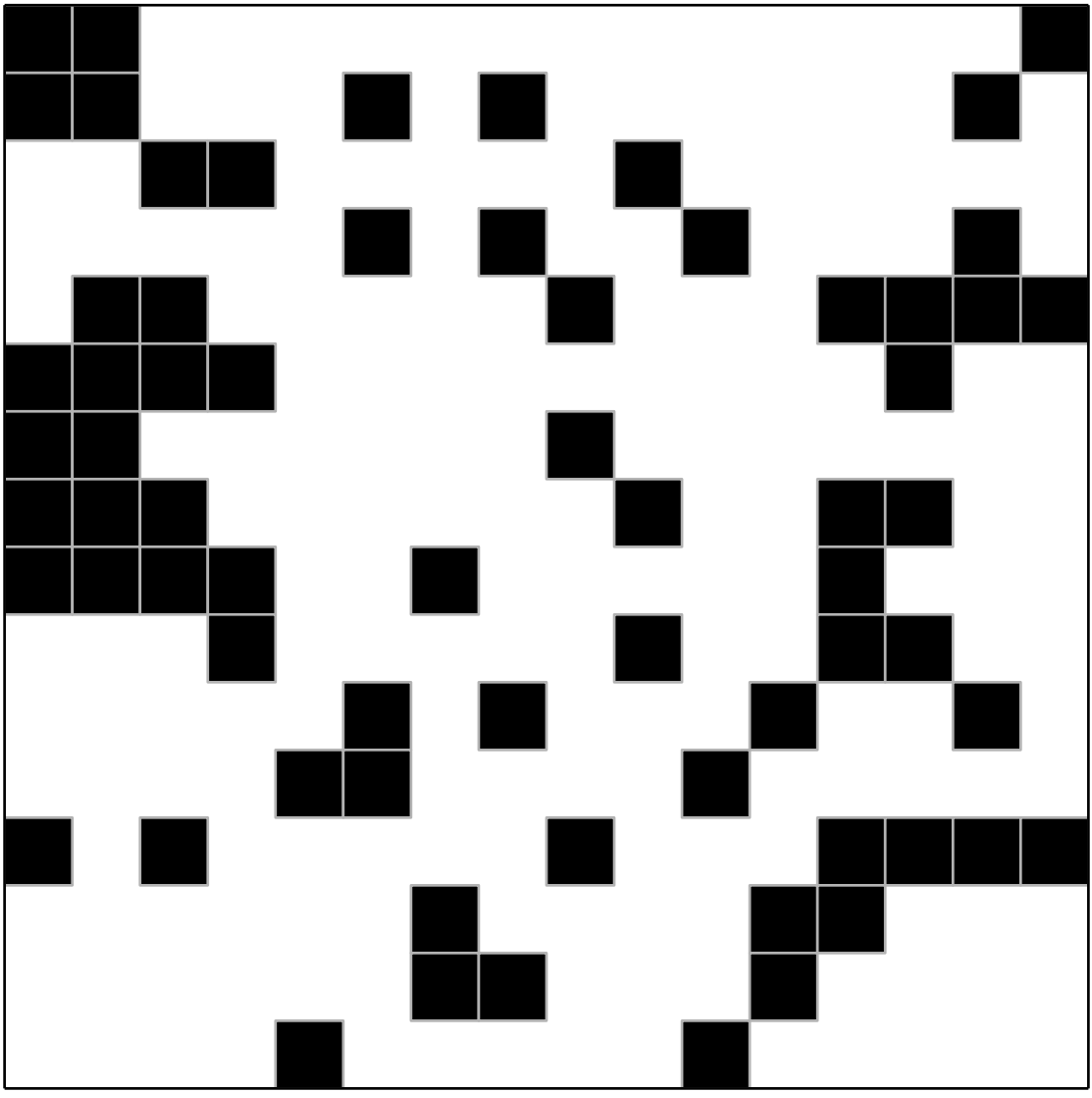

lib3_powell-IN, cost: 2, diff: 2, explored: 0, time: 0.00s, M

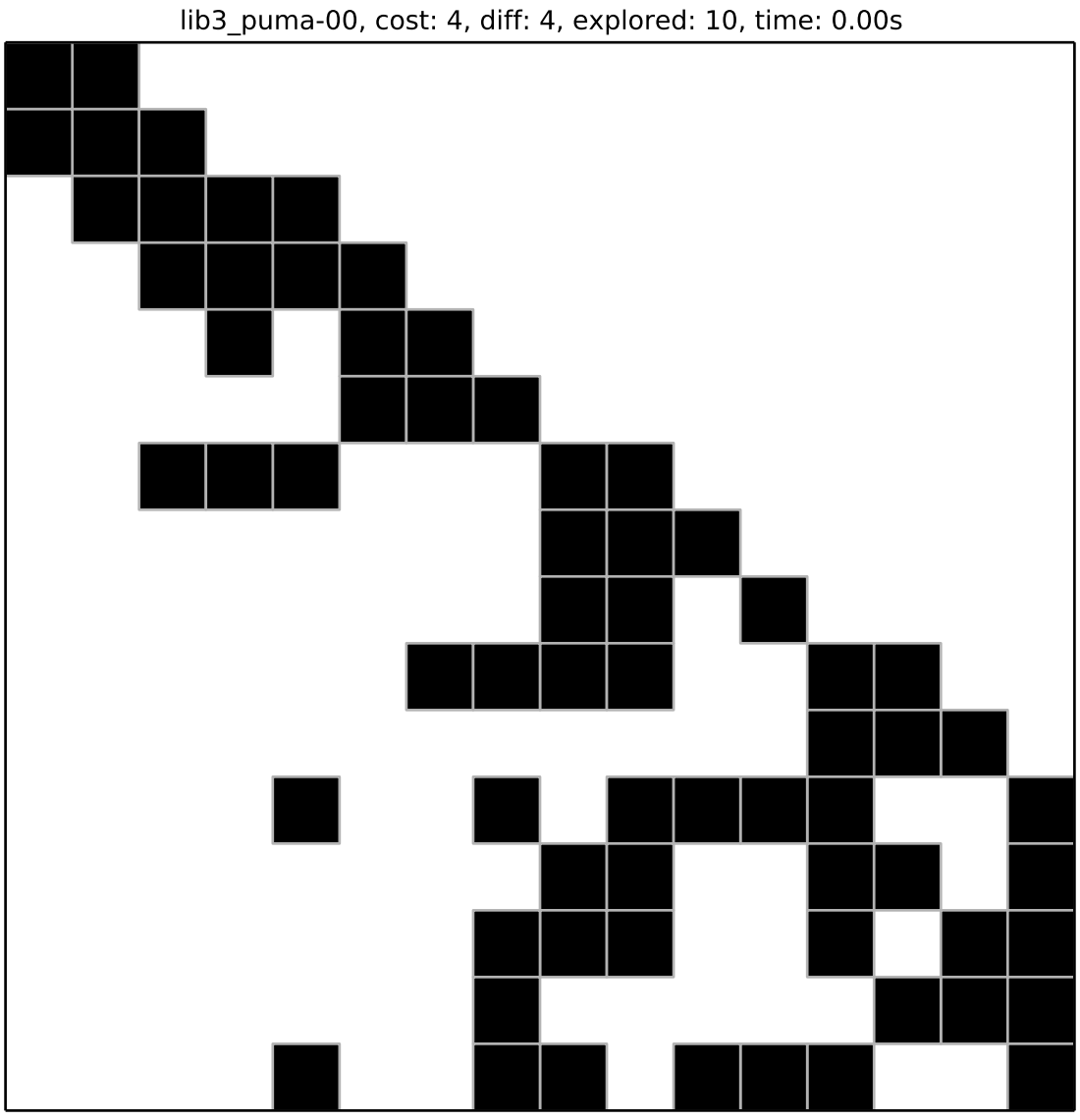
lib3_powell-RE 8x8 (28) con: 4, var: 4



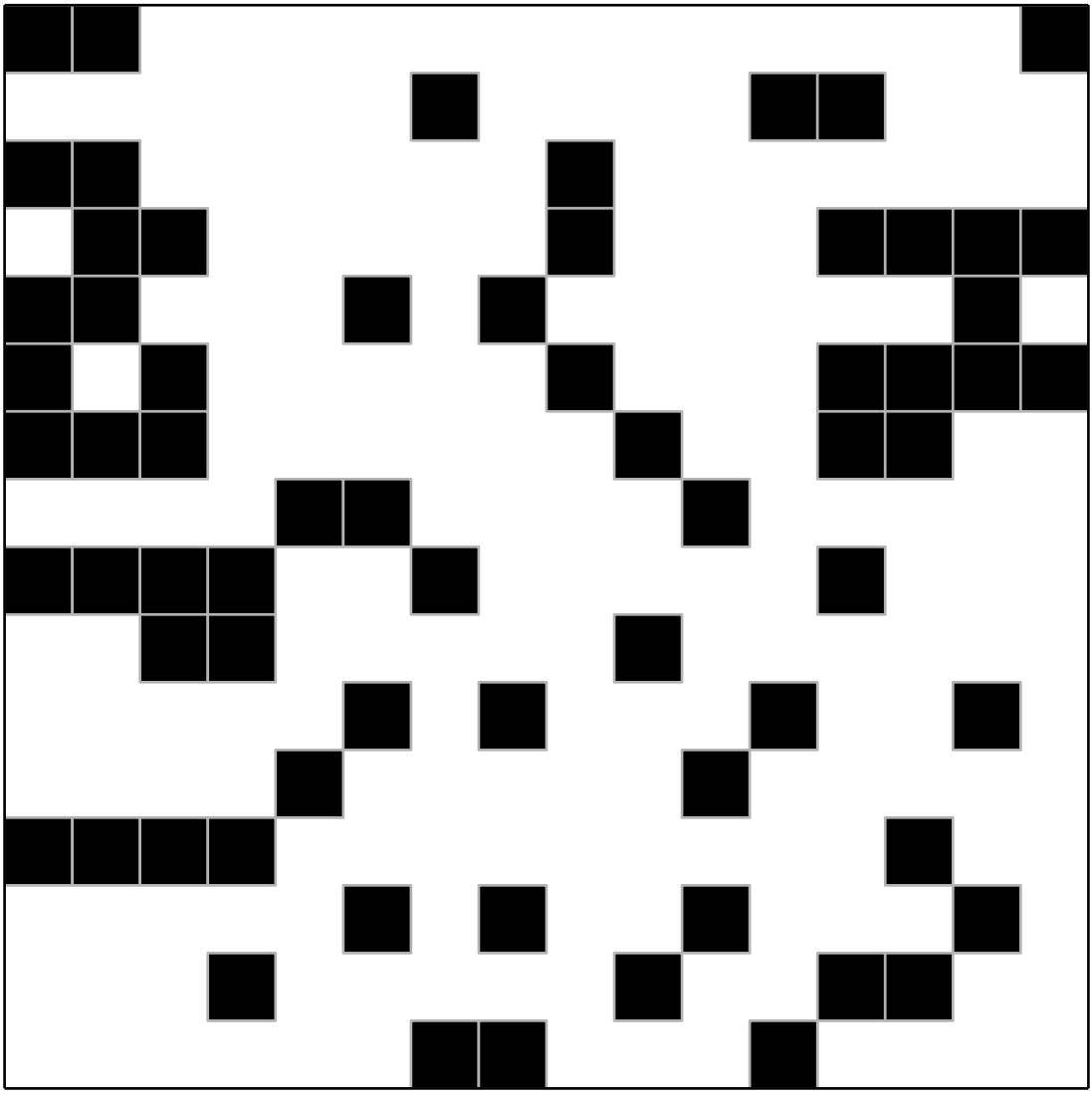

lib3_powell-RE, cost: 2, diff: 2, explored: 3, time: 0.00s

lib3_puma-00 16x16 (68) con: 8, var: 8




lib3_puma-00, cost: 4, diff: 4, explored: 10, time: 0.00s

lib3_puma-01 16x16 (68) con: 8, var: 8



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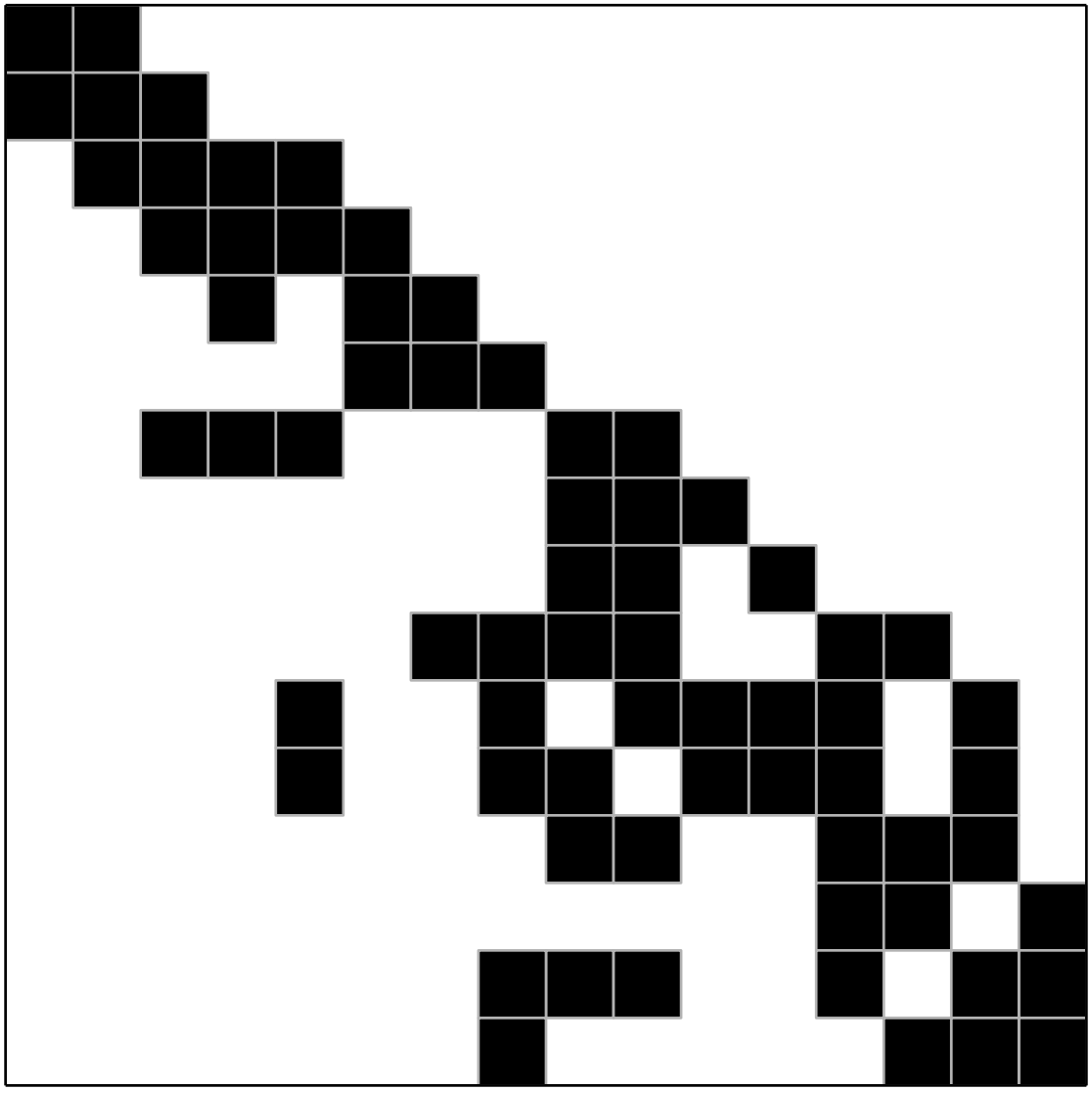
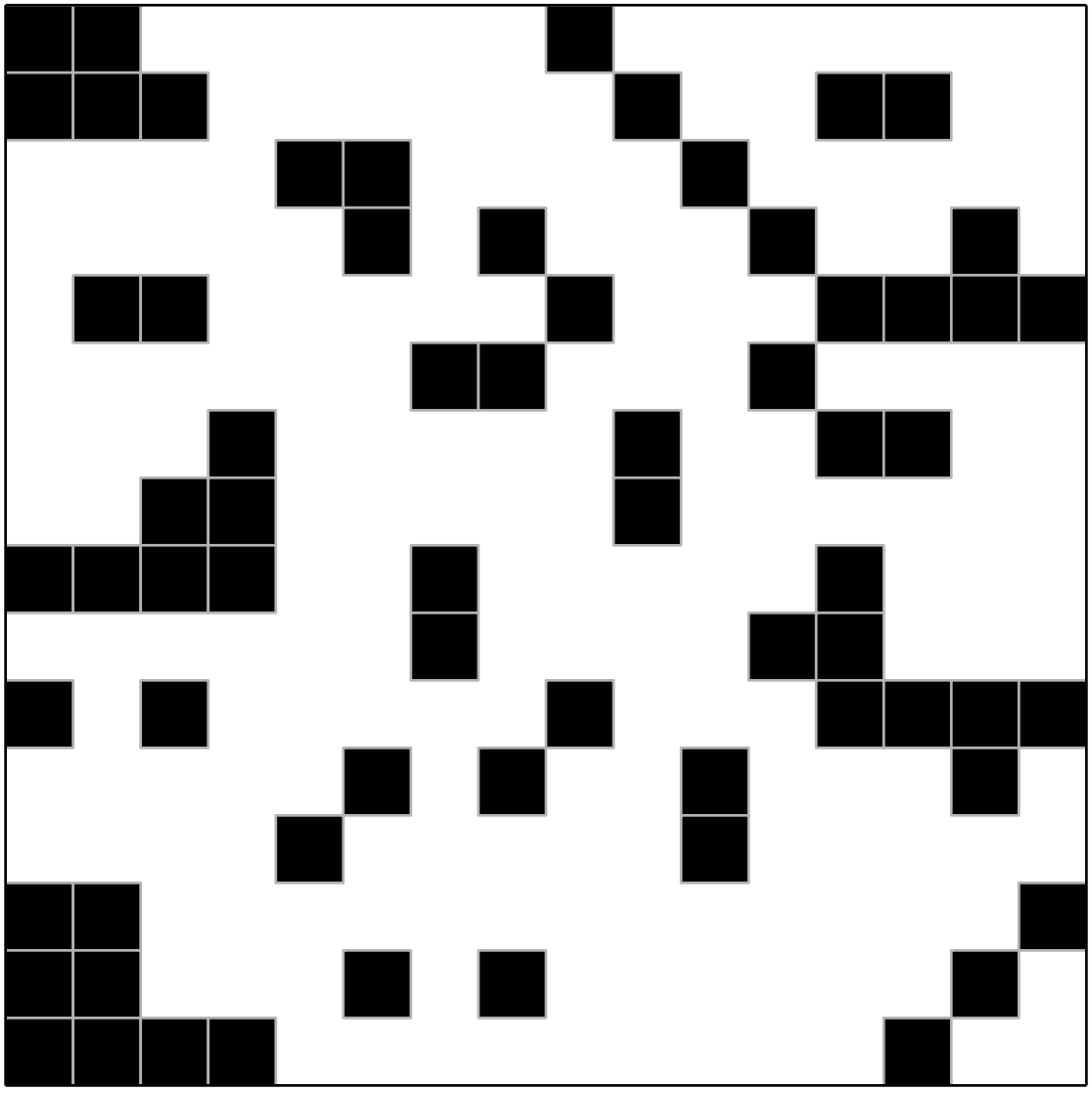
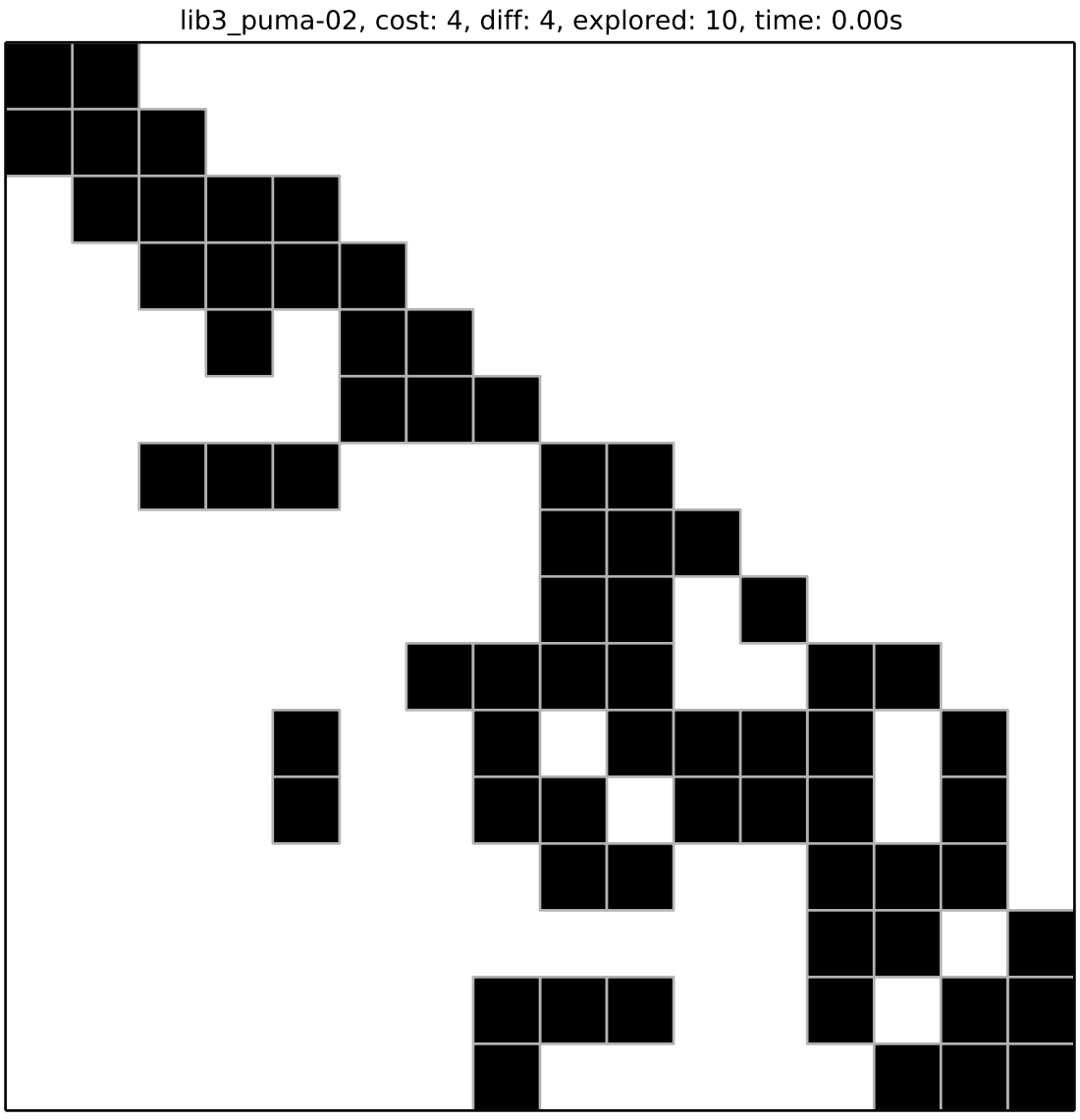


lib3_puma-02 16x16 (68) con: 8, var: 8

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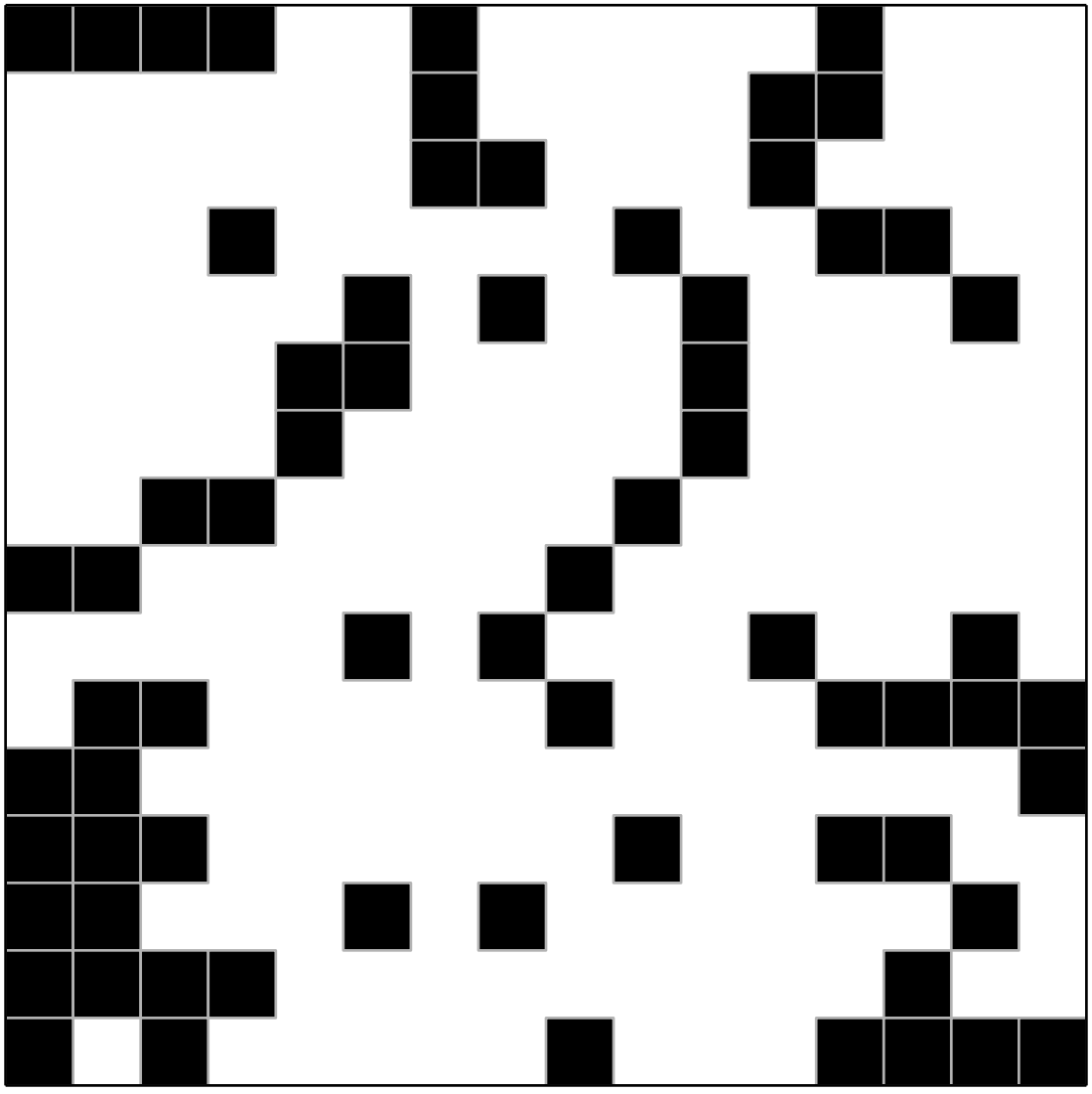
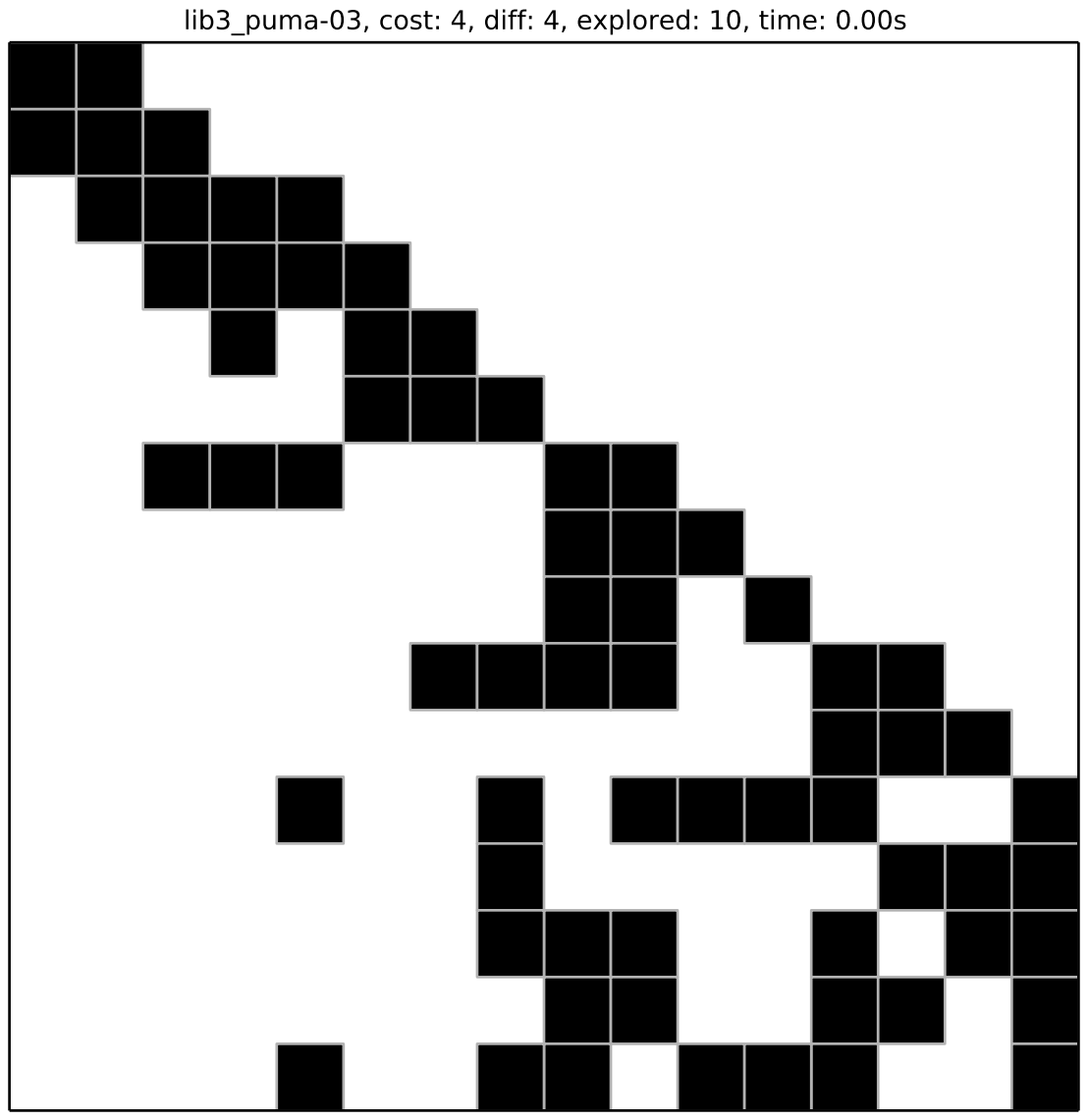
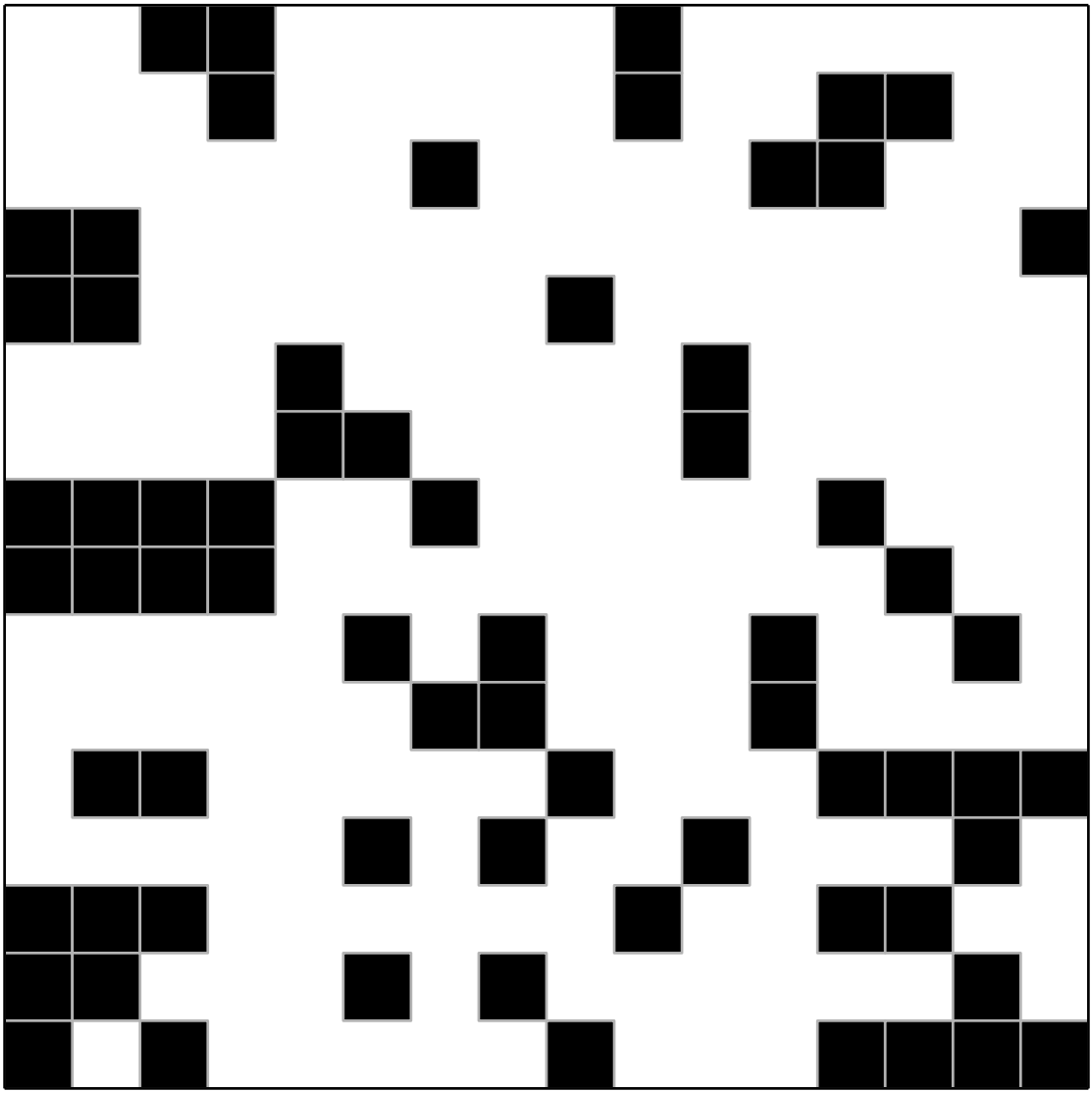
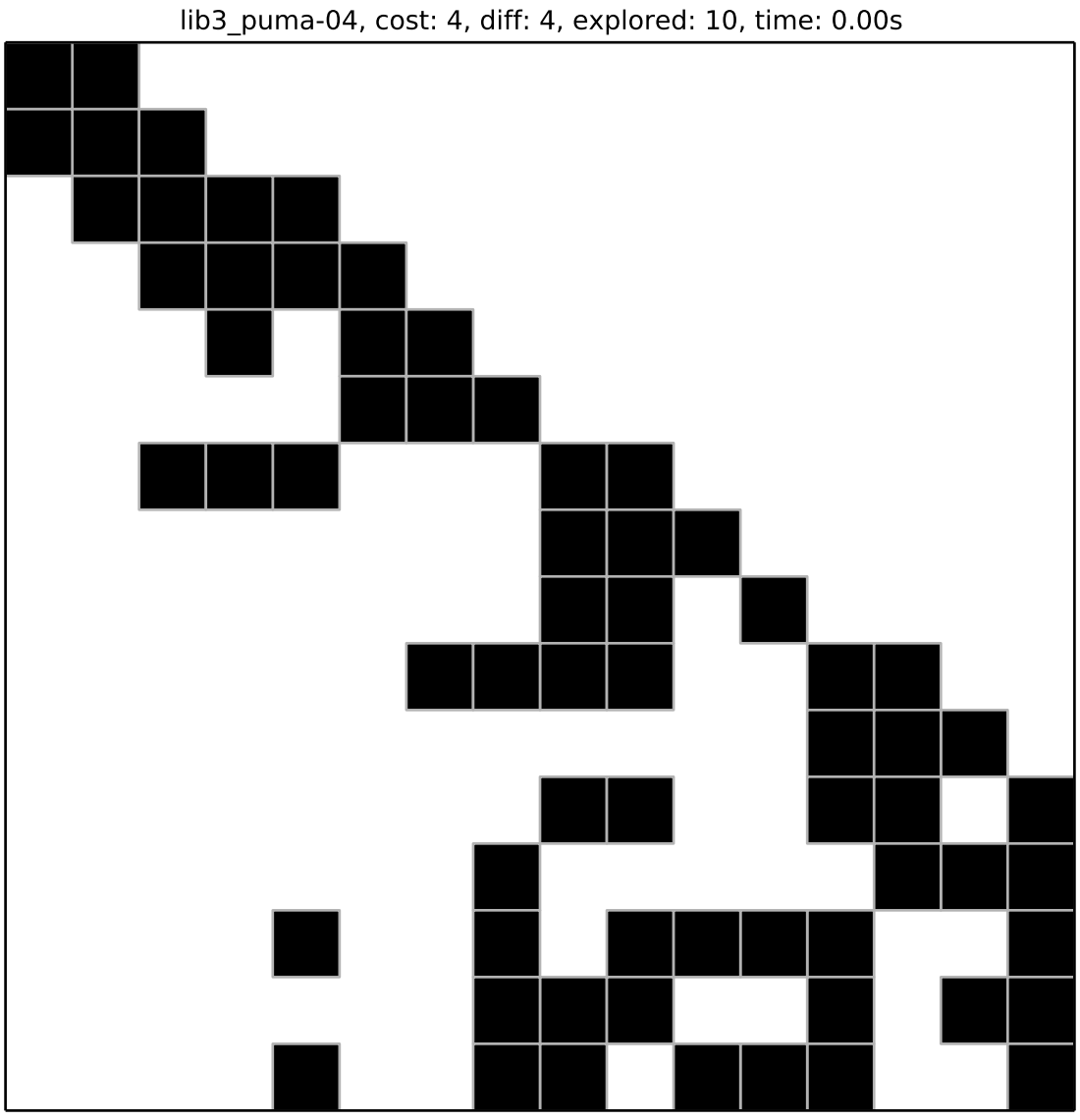
lib3_puma-03 16x16 (68) con: 8, var: 8




lib3_puma-03, cost: 4, diff: 4, explored: 10, time: 0.00s

lib3_puma-04 16x16 (68) con: 8, var: 8

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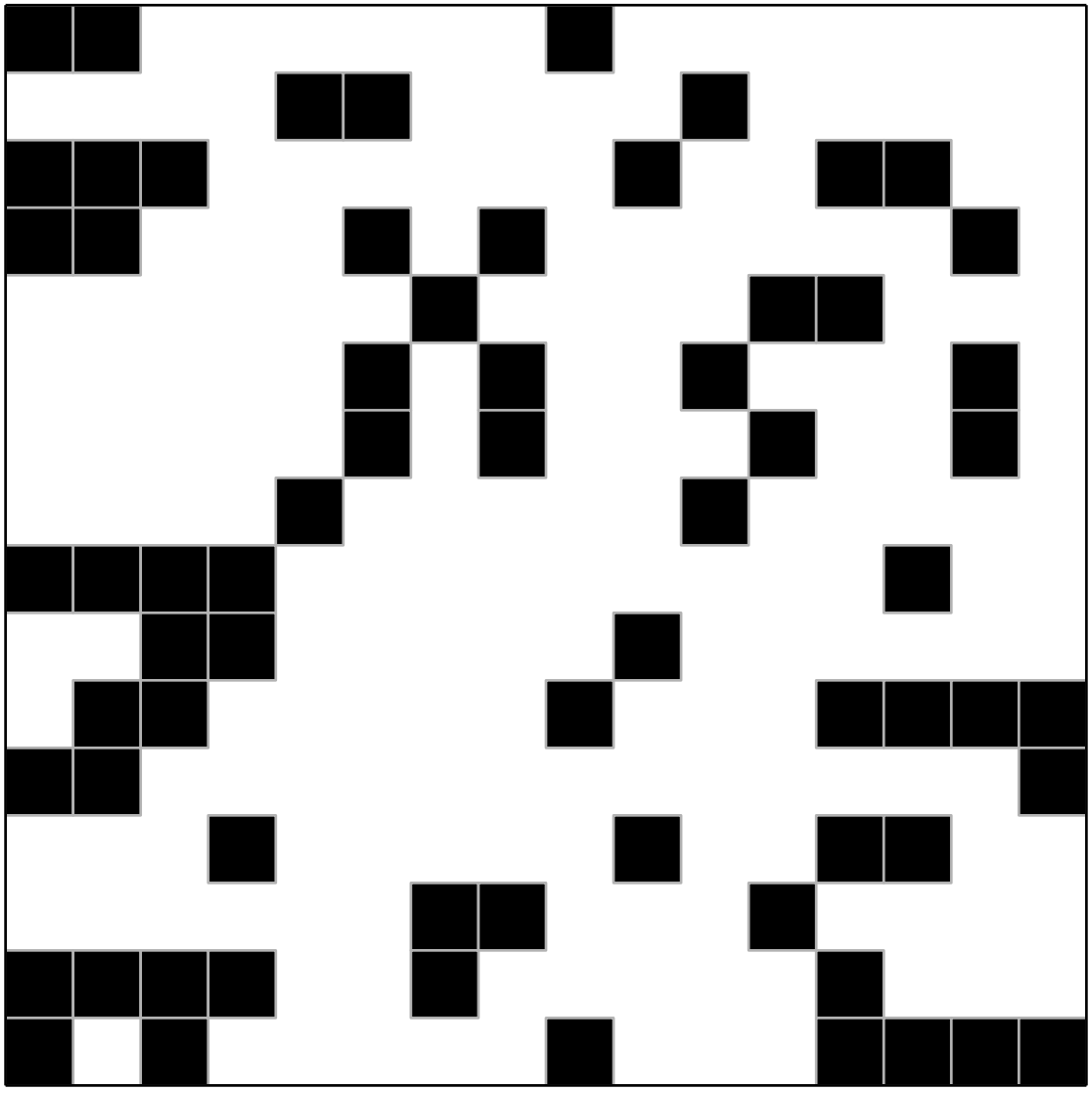
lib3_puma-05 16x16 (68) con: 8, var: 8



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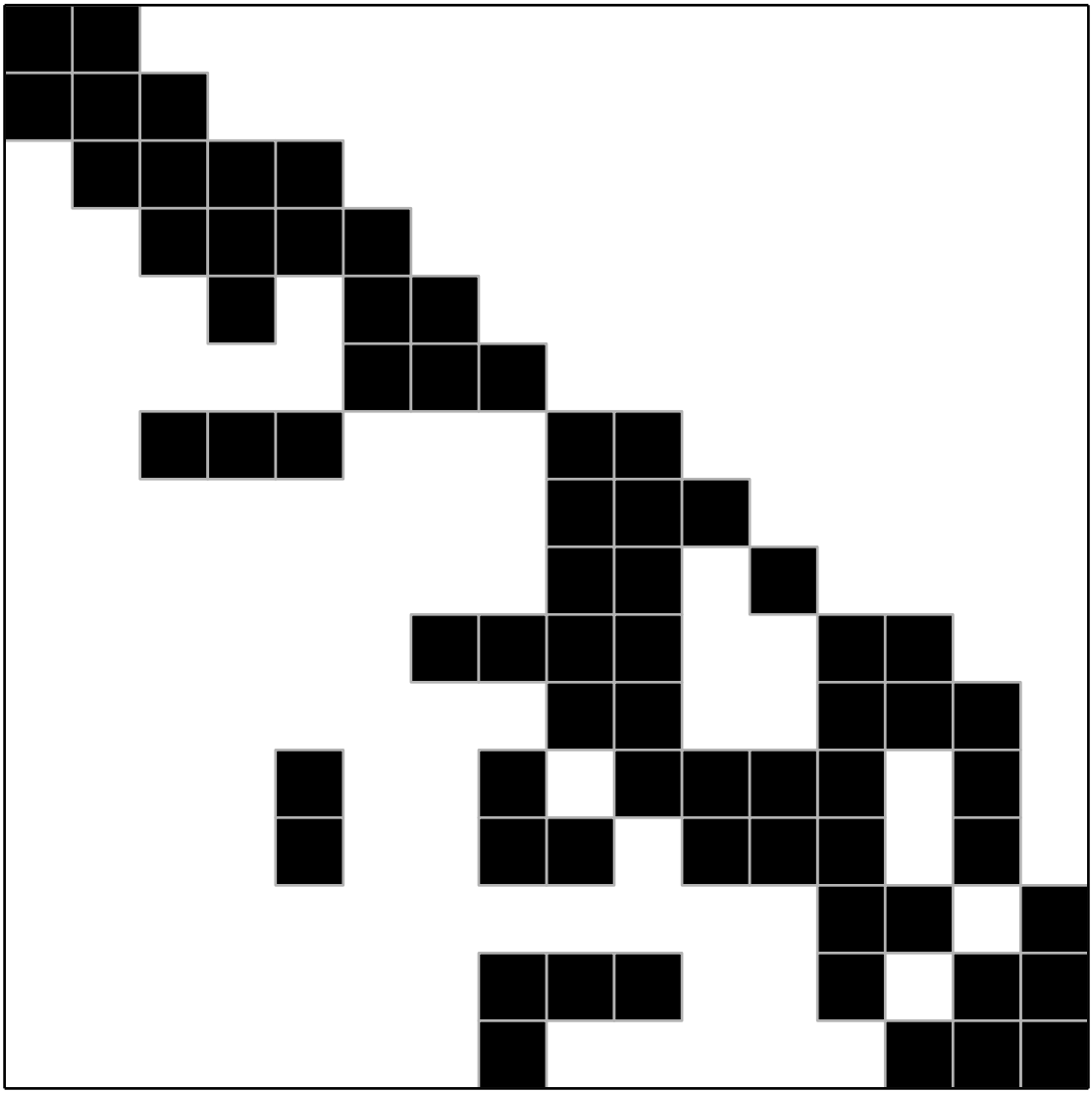
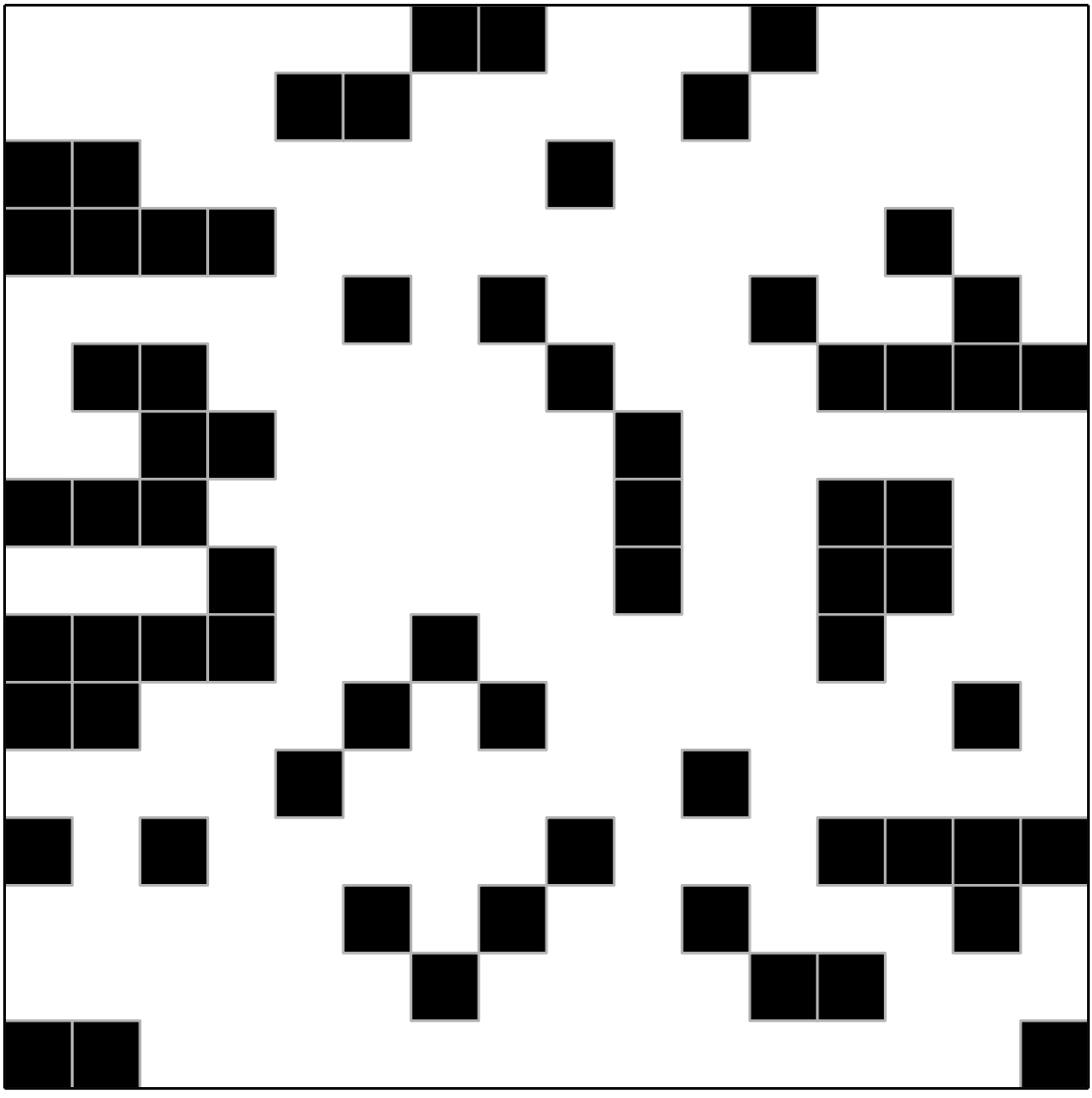


lib3_puma-06 16x16 (68) con: 8, var: 8



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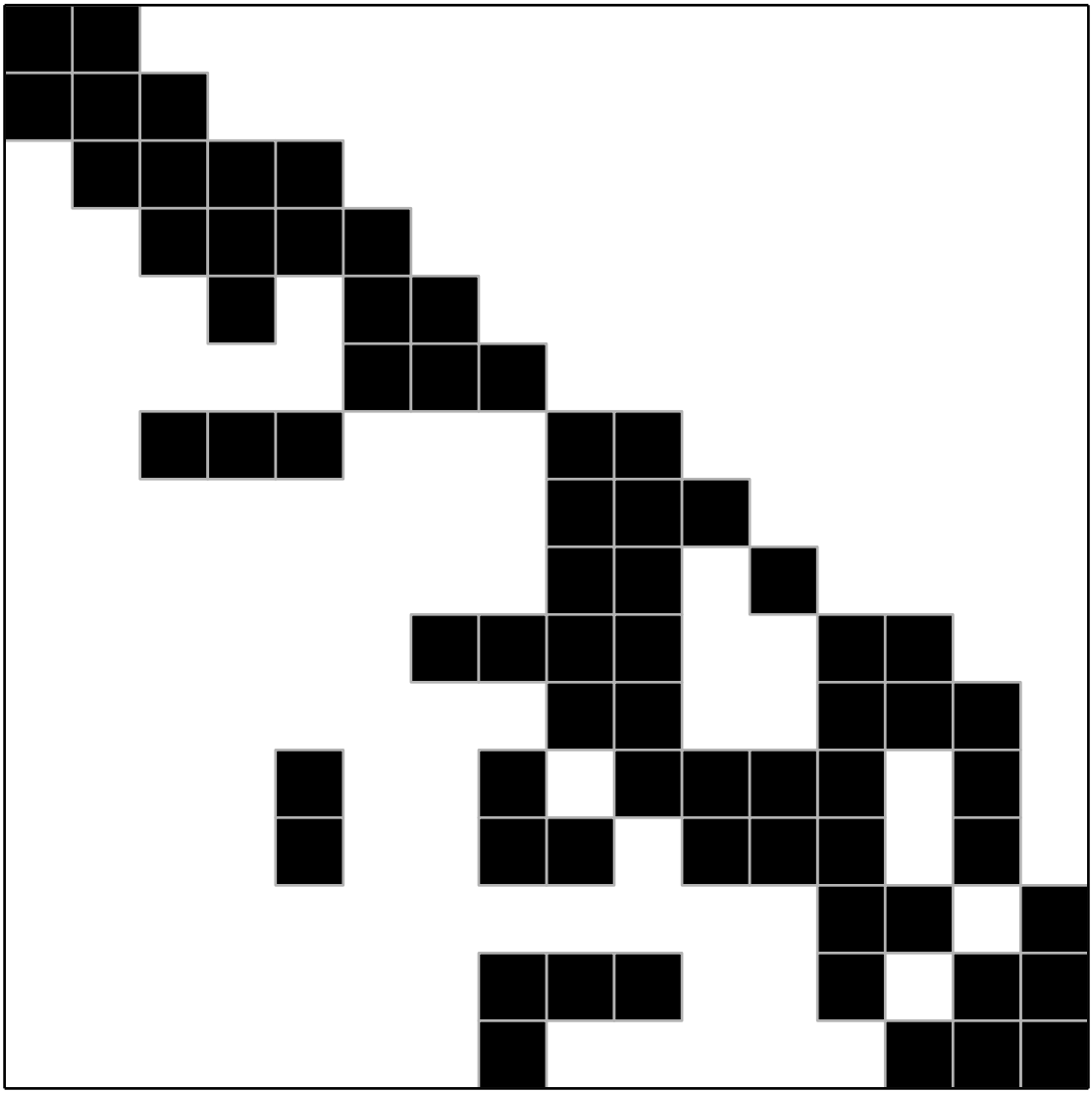
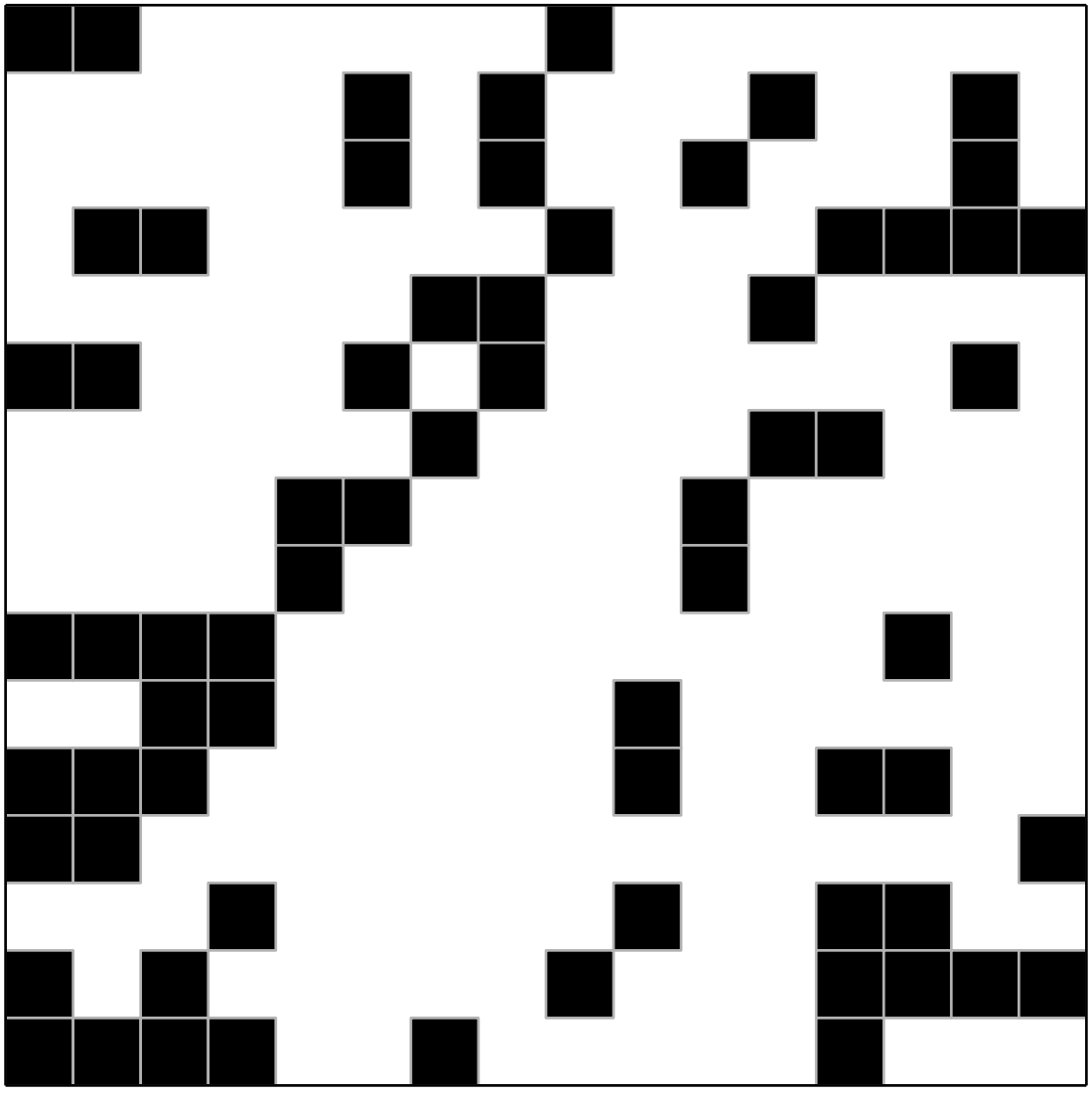
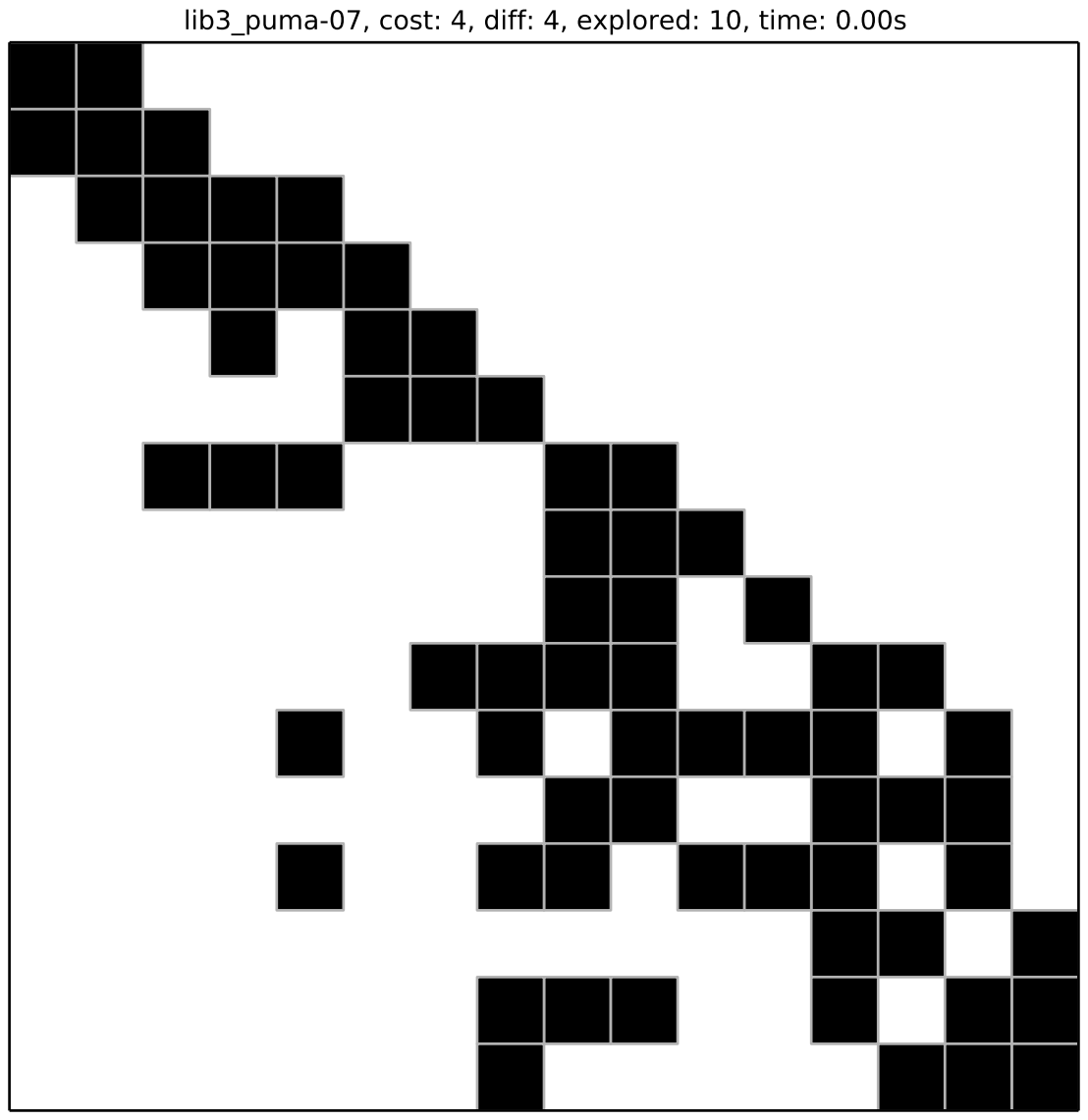


lib3_puma-07 16x16 (68) con: 8, var: 8

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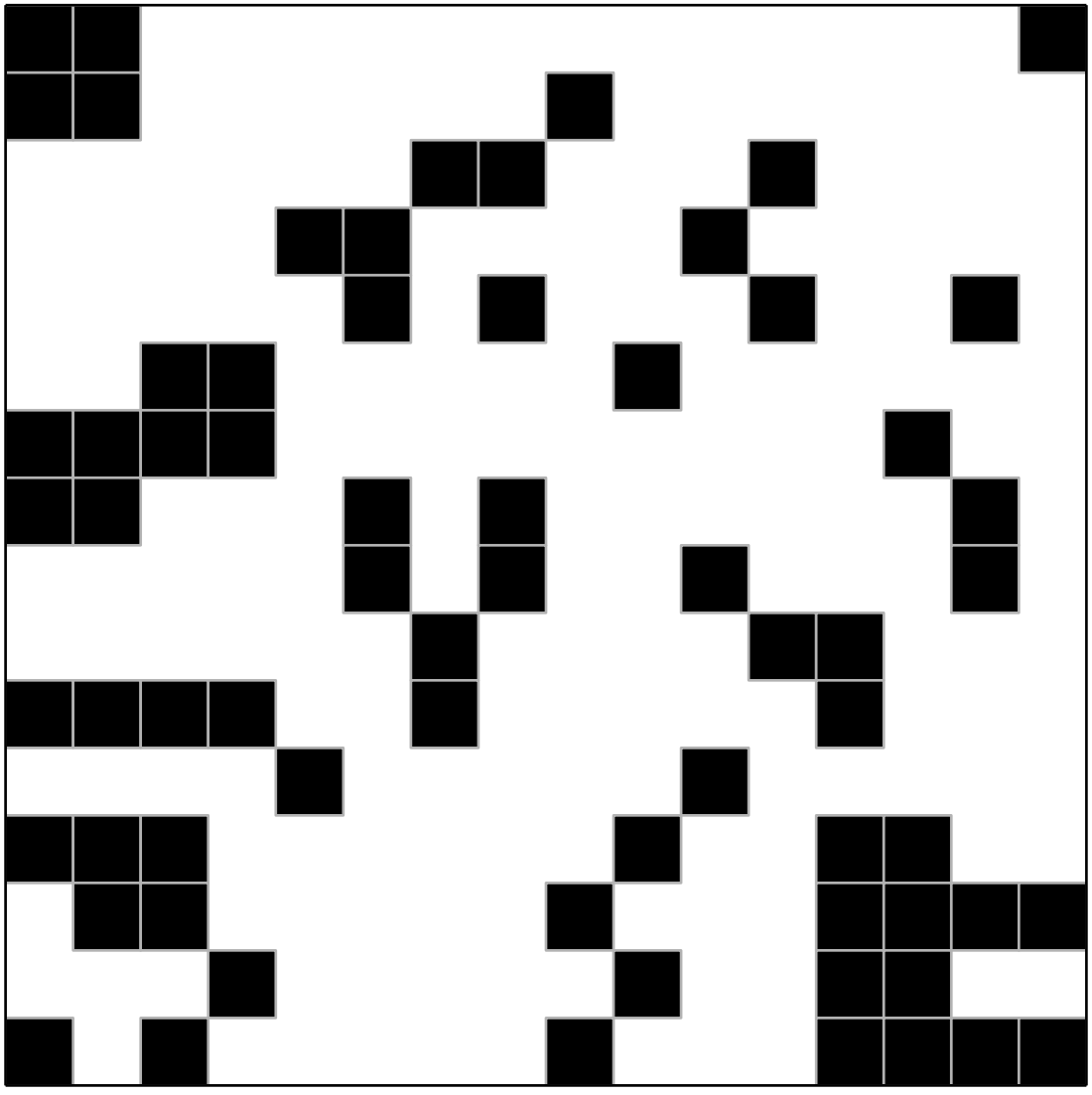
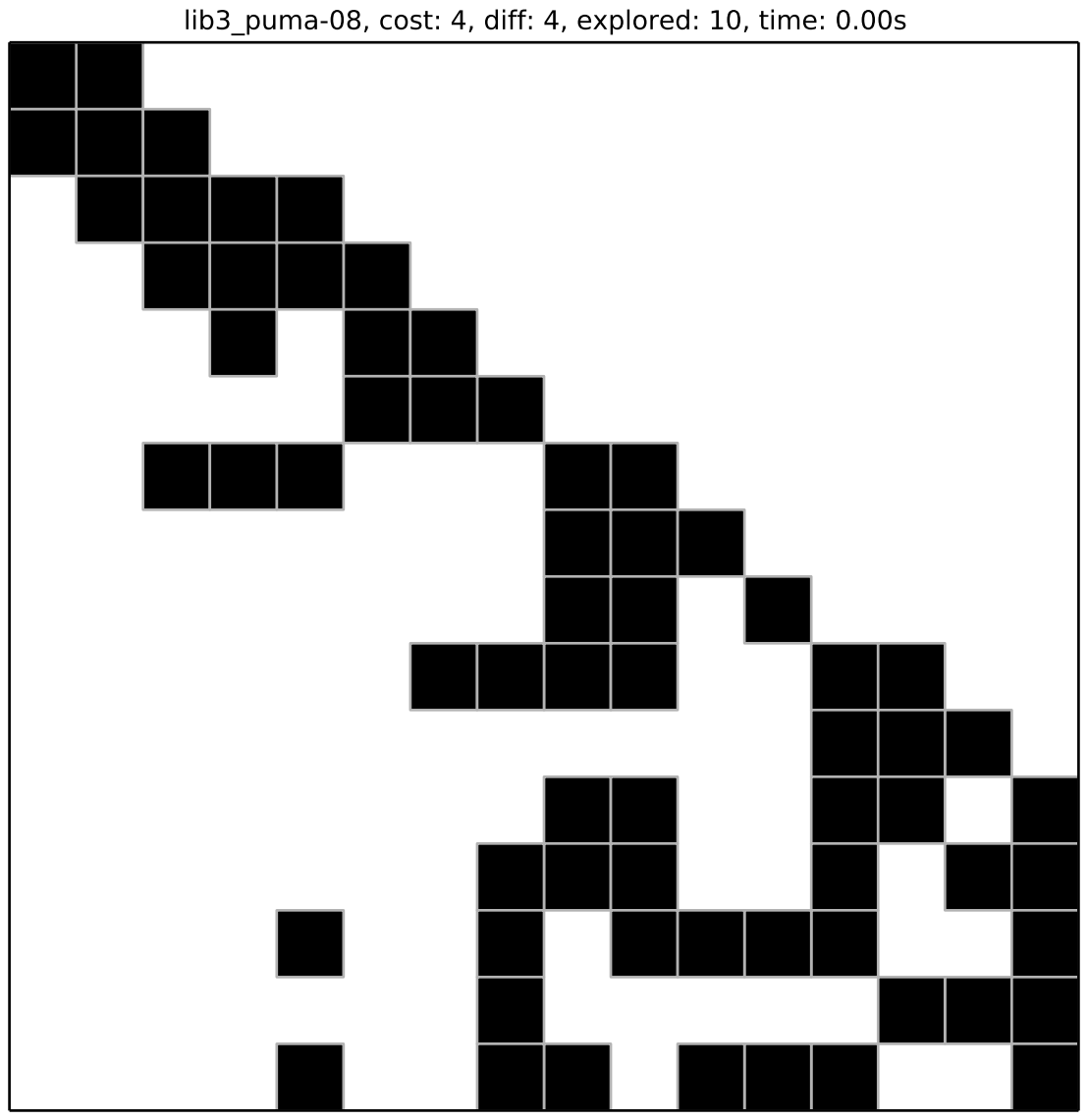
lib3_puma-08 16x16 (68) con: 8, var: 8

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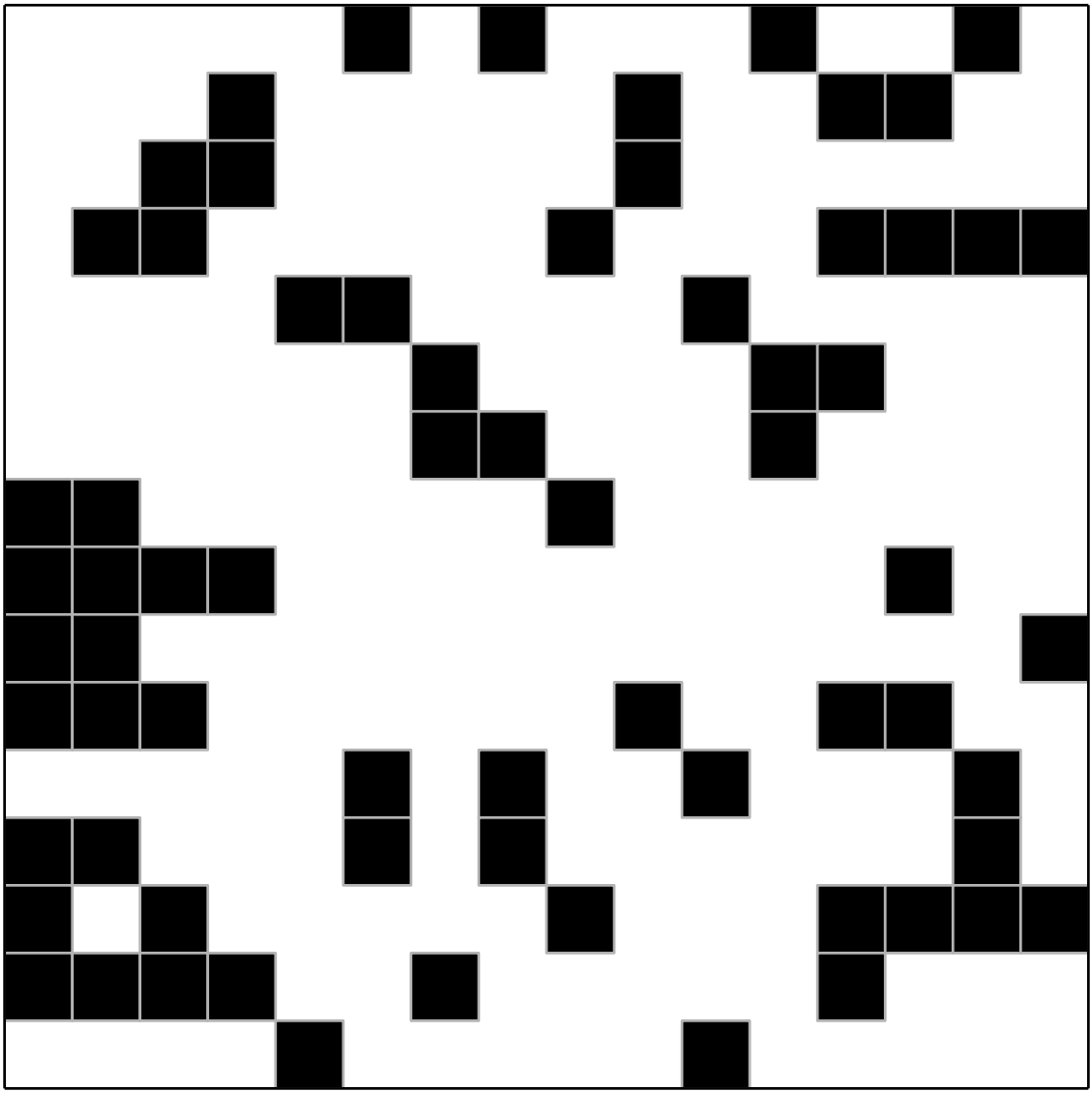
lib3_puma-09 16x16 (68) con: 8, var: 8



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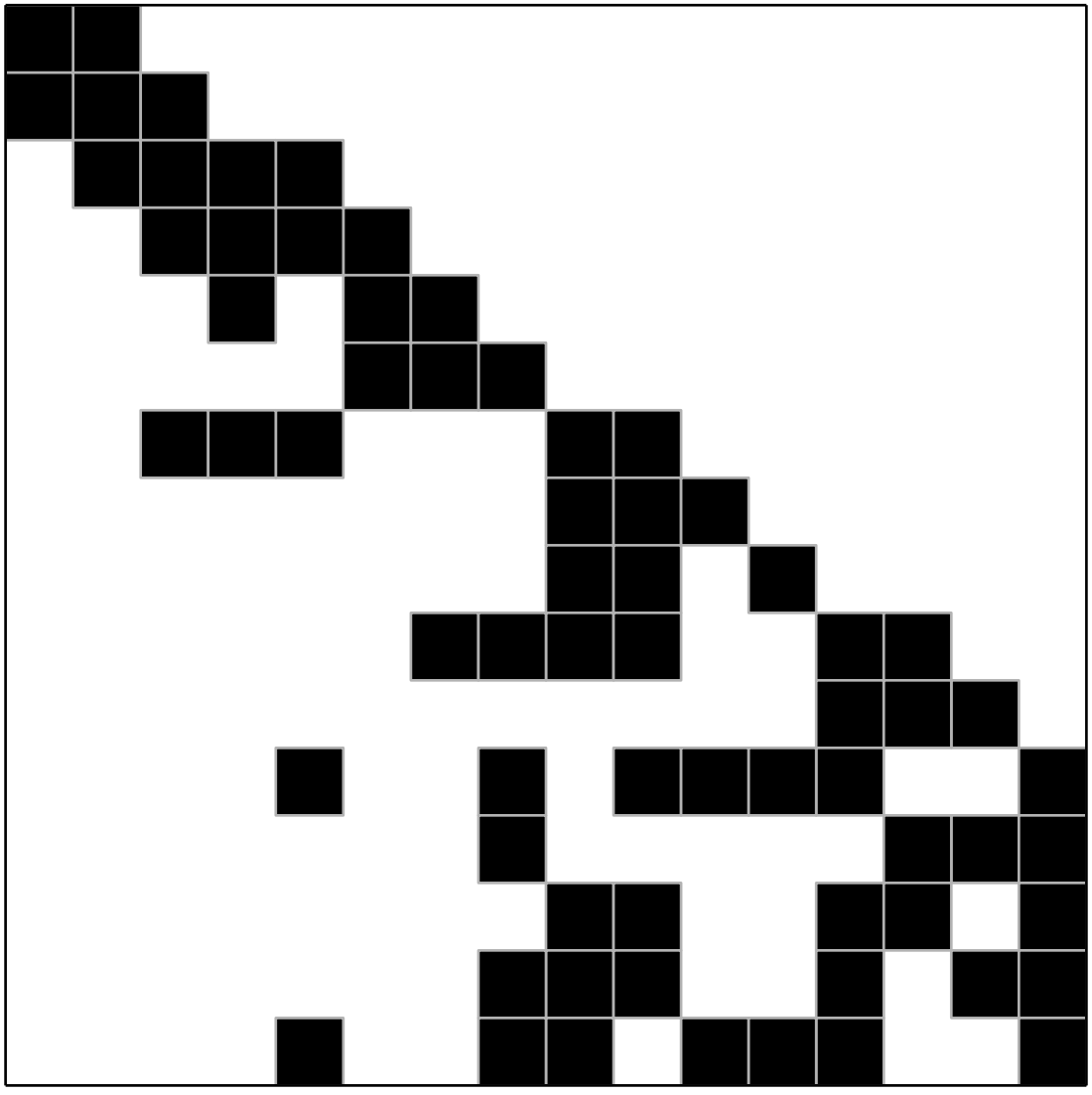
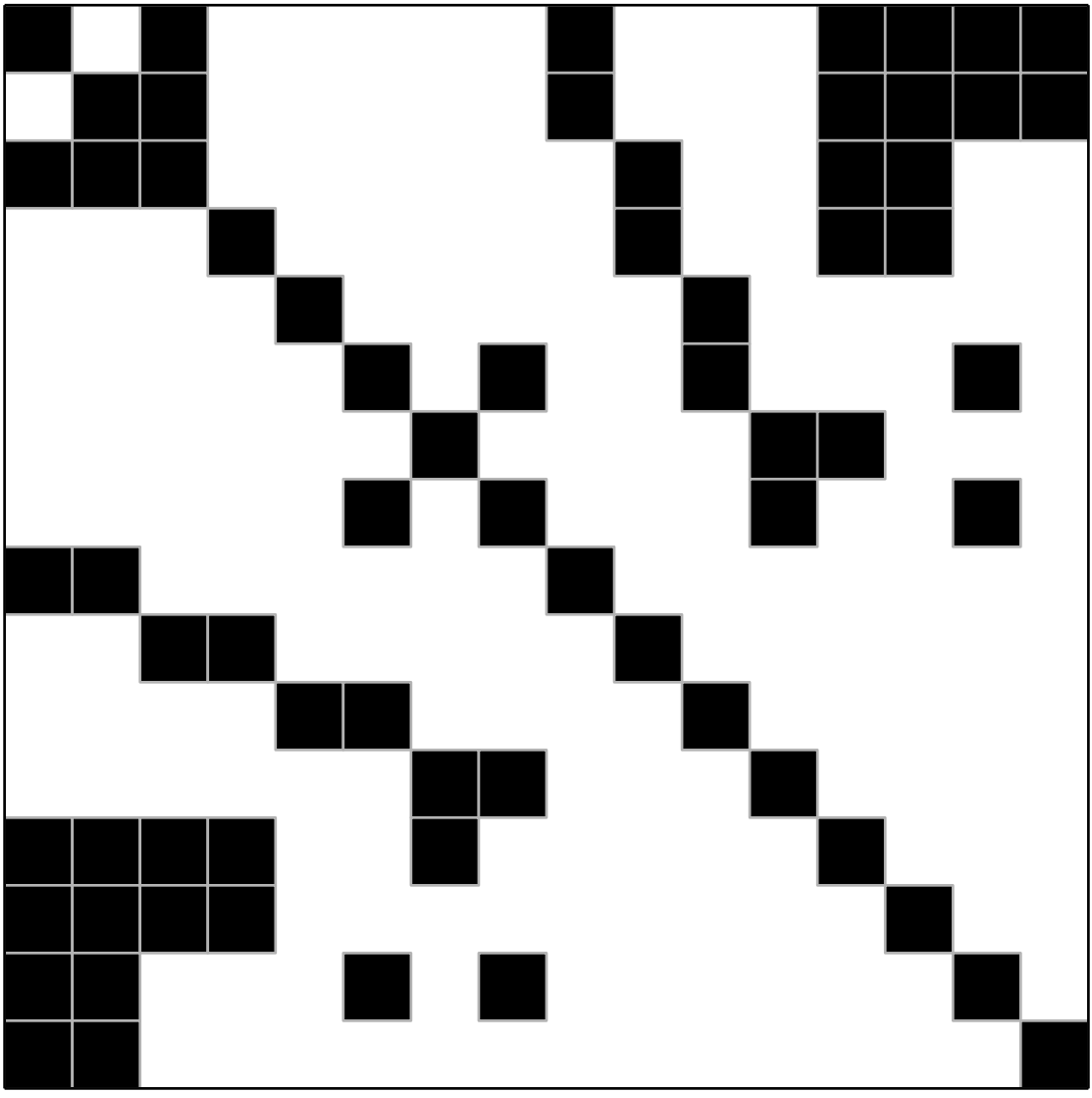
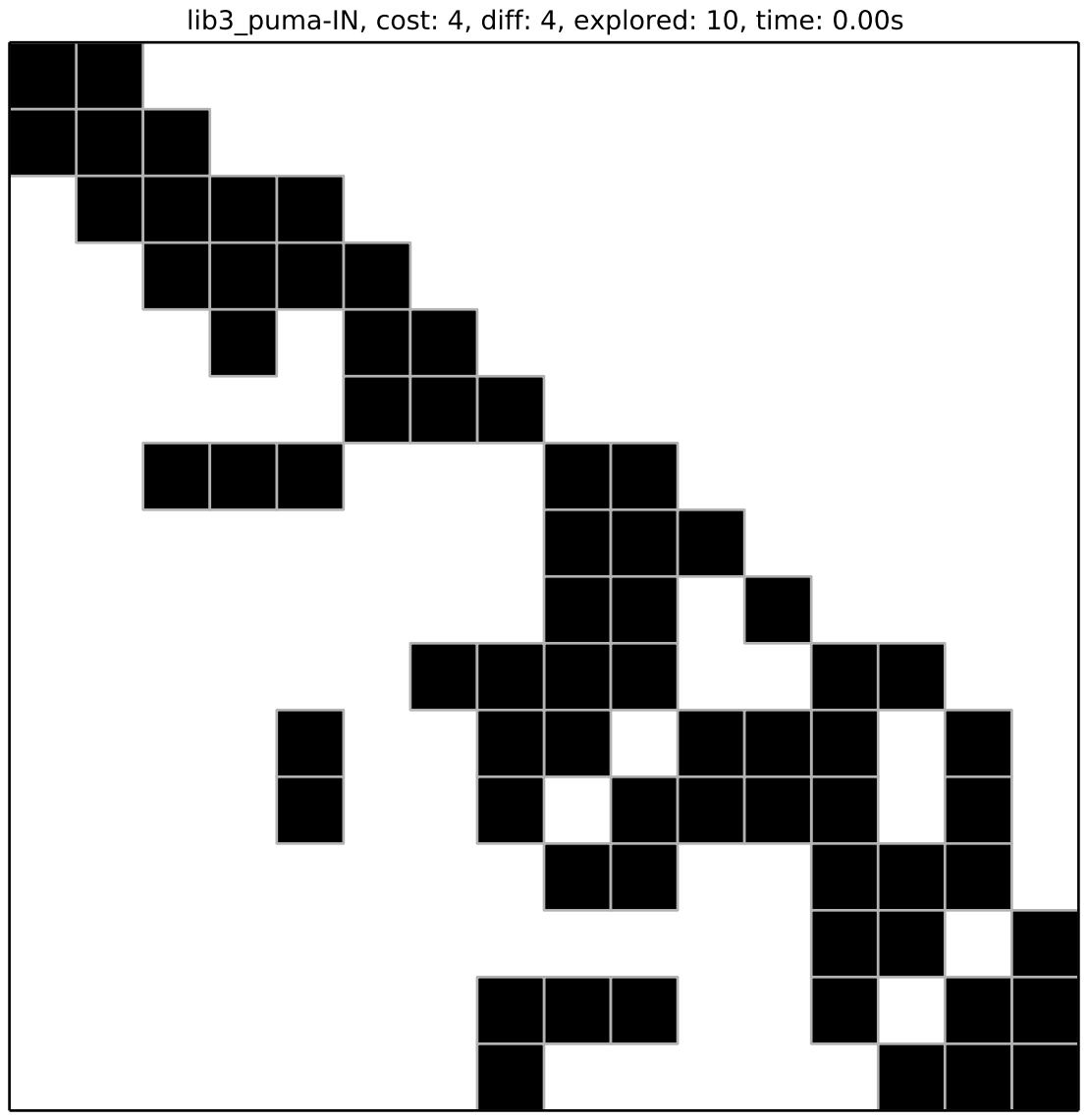



lib3_puma-IN 16x16 (68) con: 8, var: 8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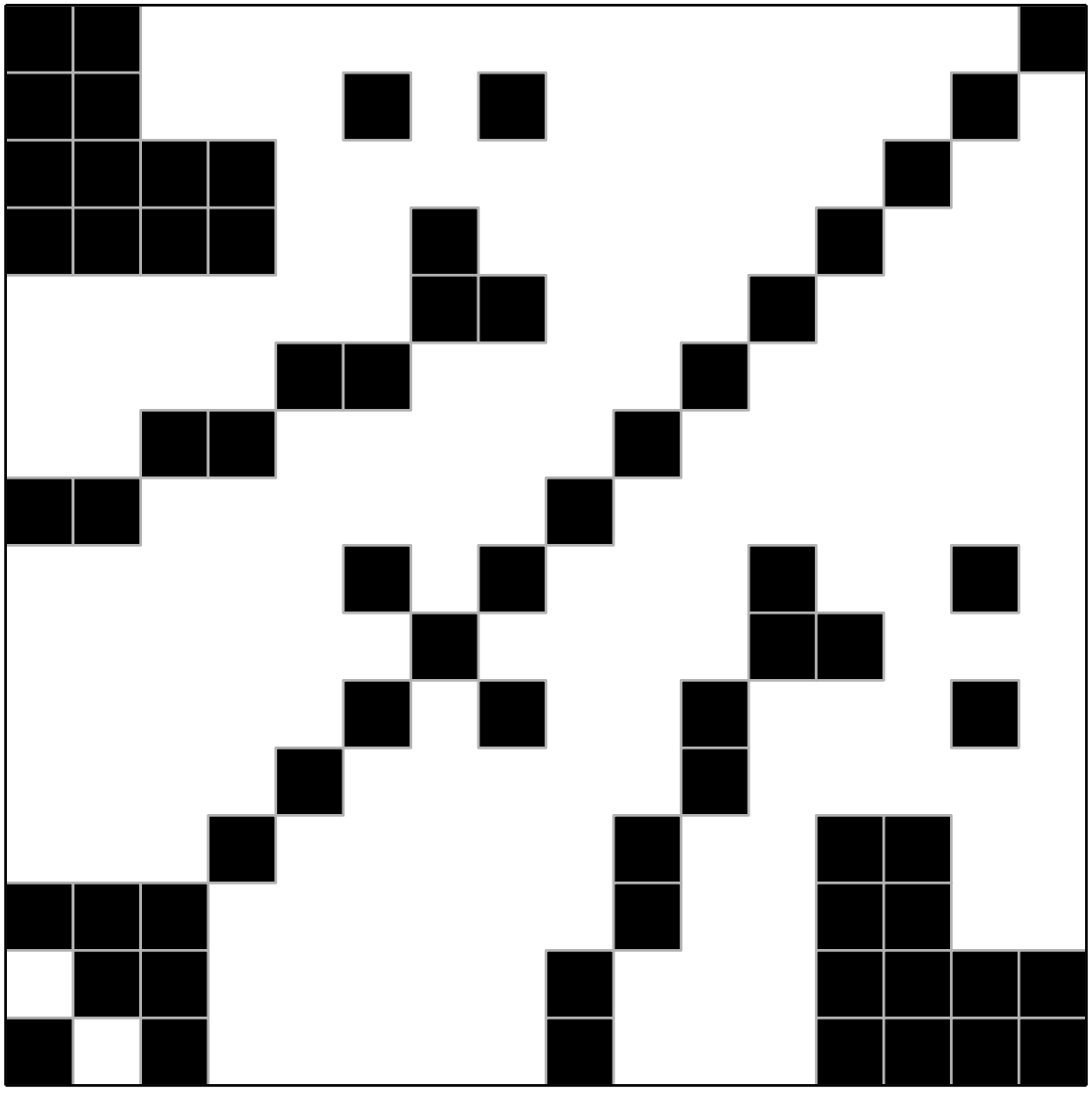
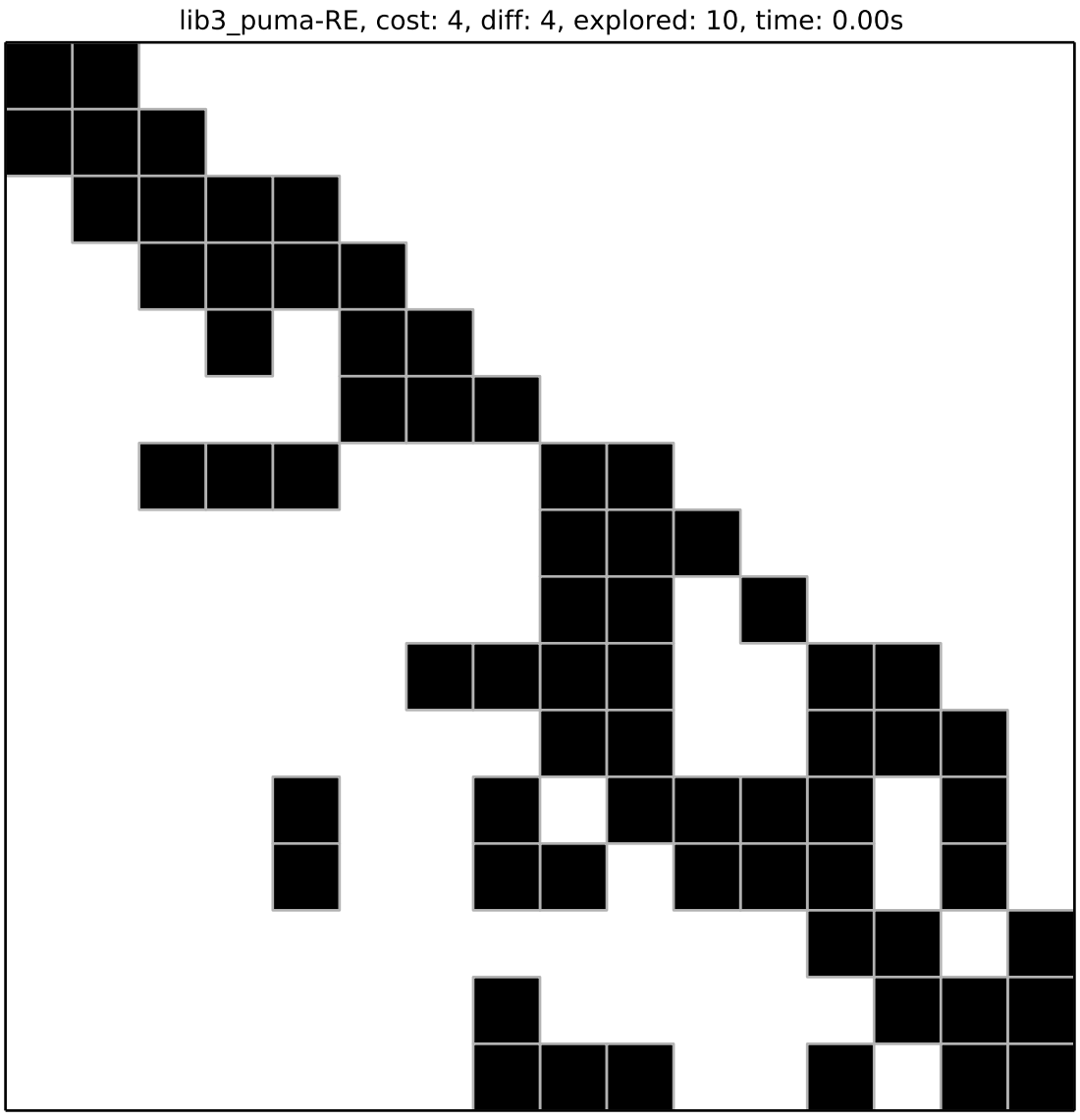
lib3_puma-RE 16x16 (68) con: 8, var: 8

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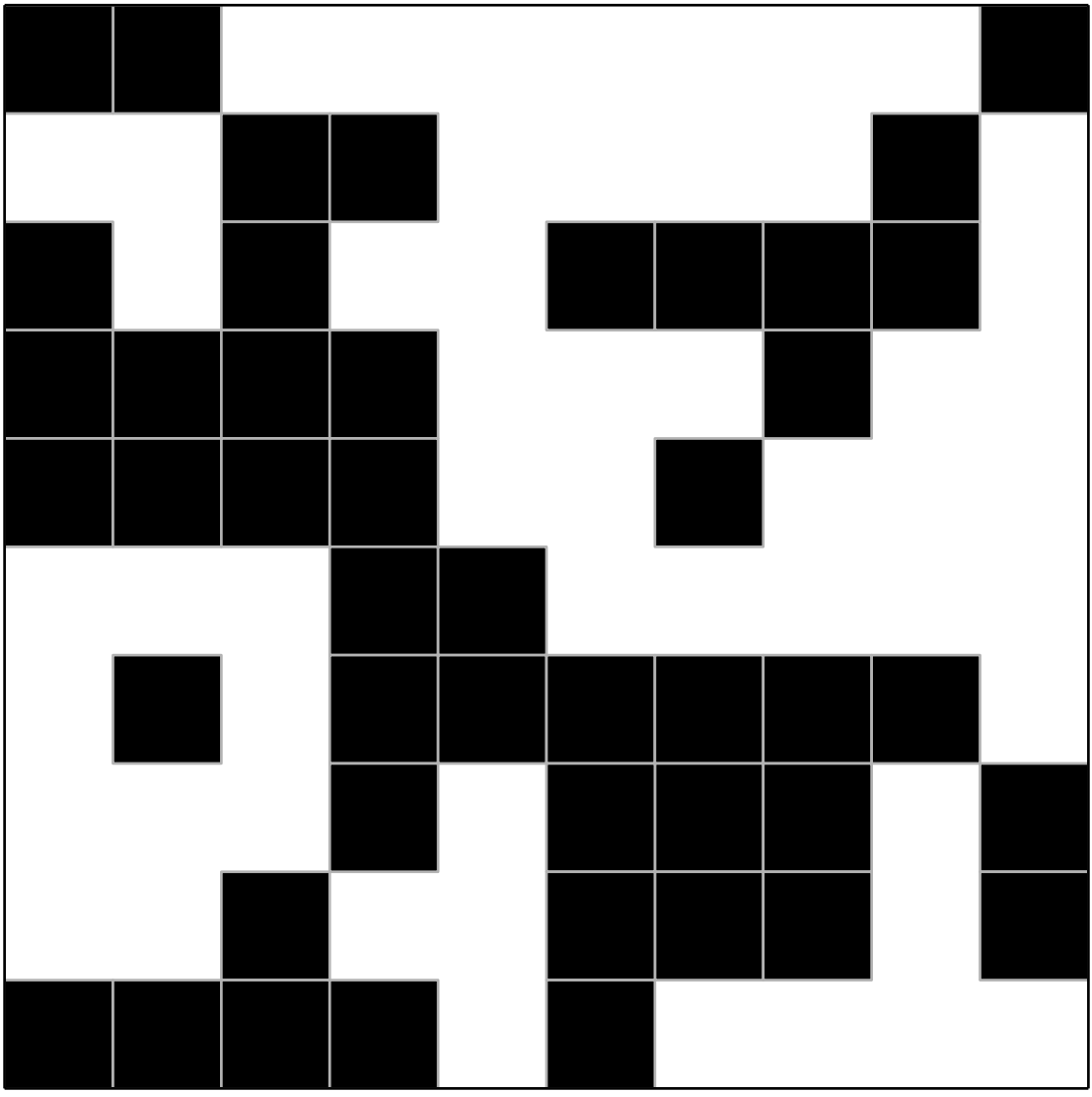
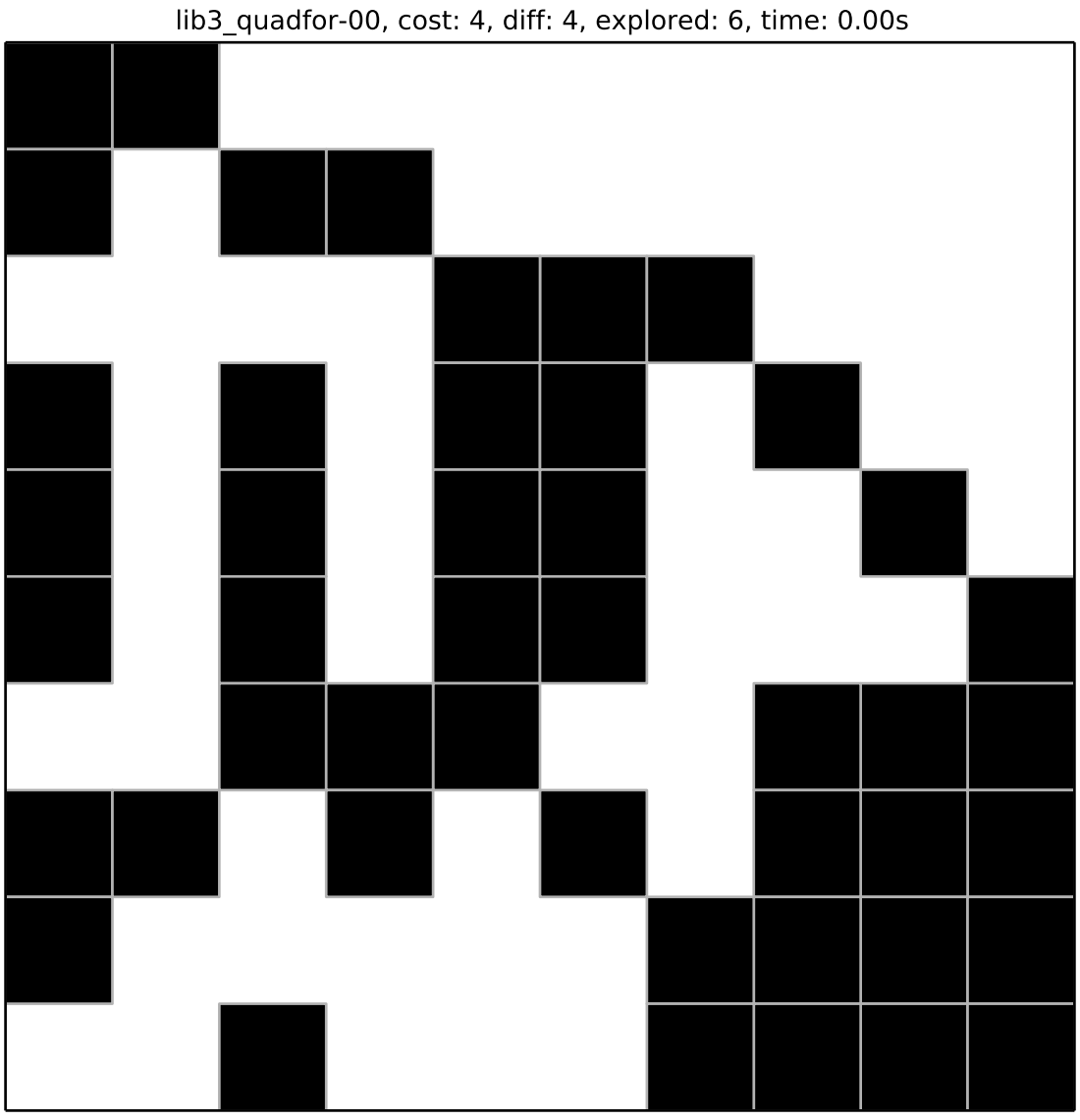
lib3_quadfor-00 10x10 (46) con: 6, var: 4

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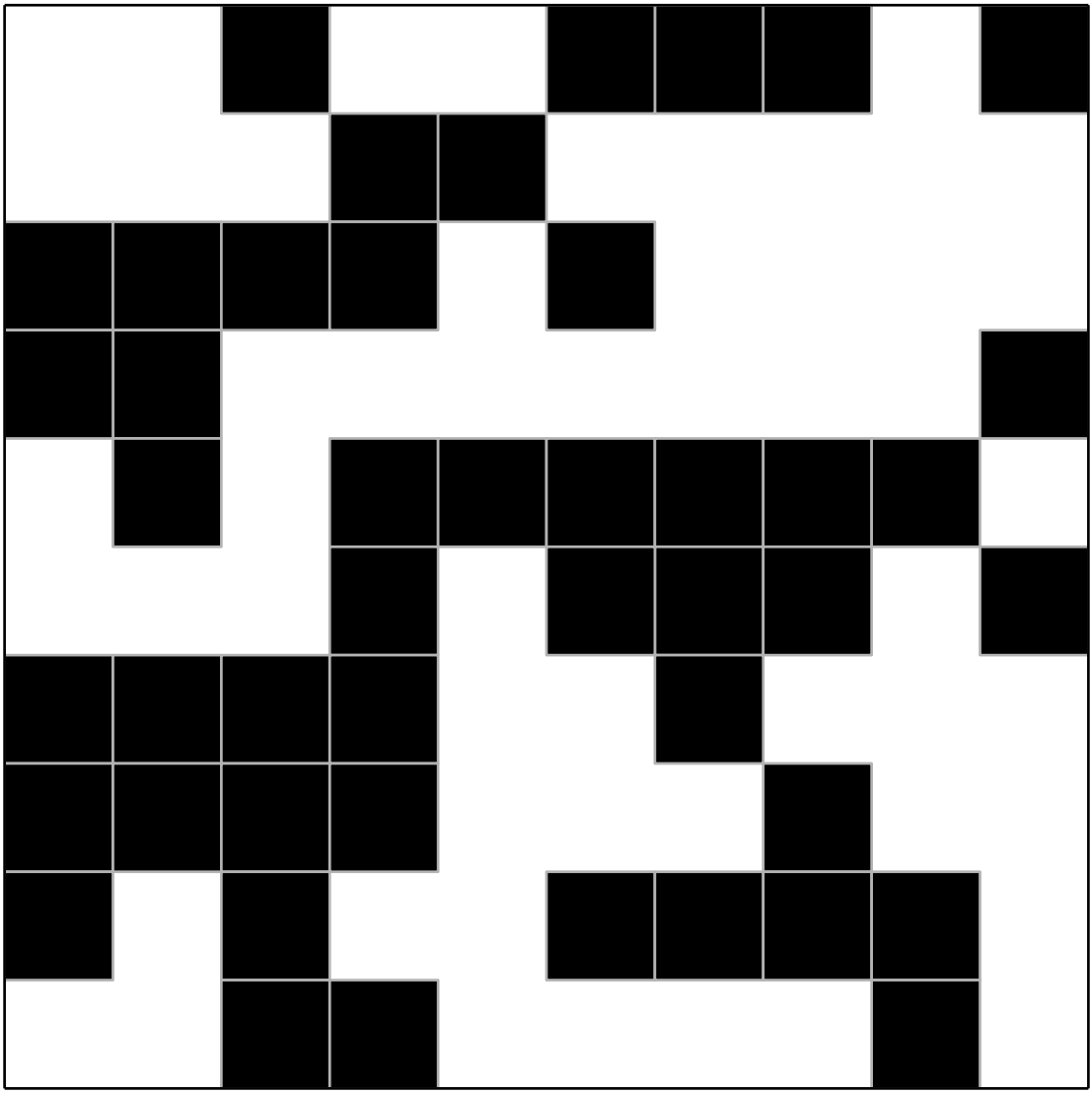
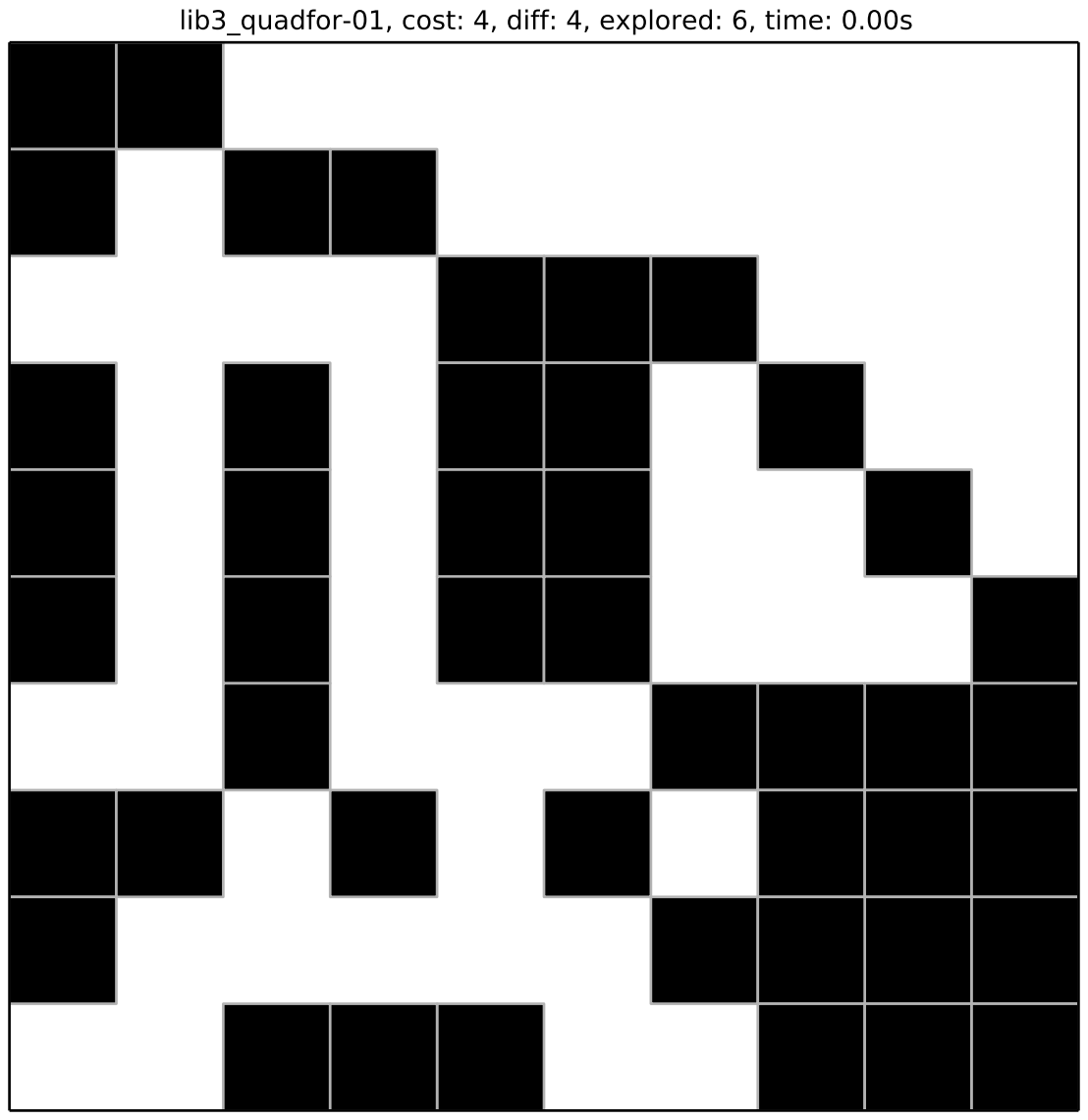
lib3_quadfor-01 10x10 (46) con: 6, var: 4

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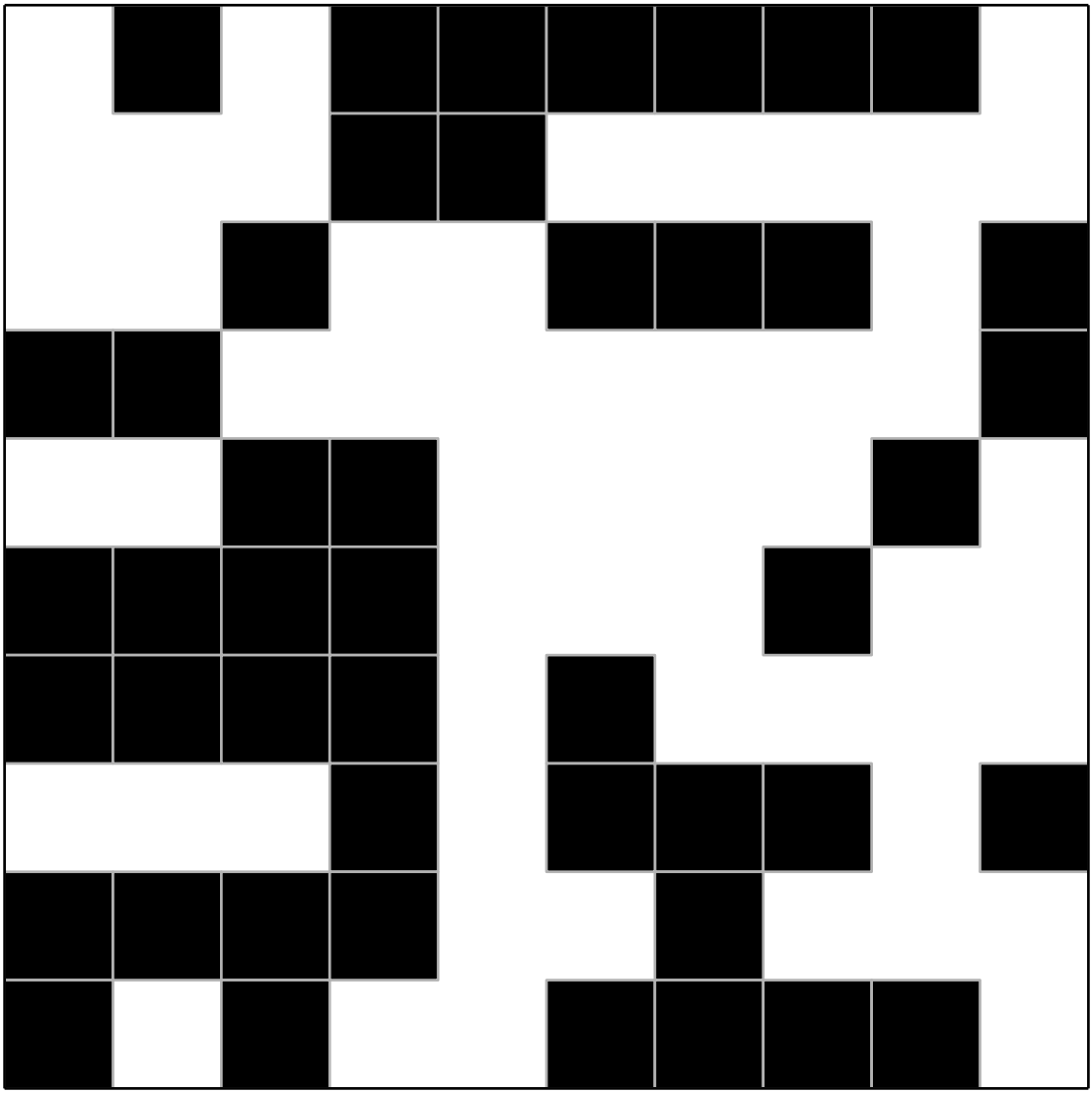
lib3_quadfor-02 10x10 (46) con: 6, var: 4



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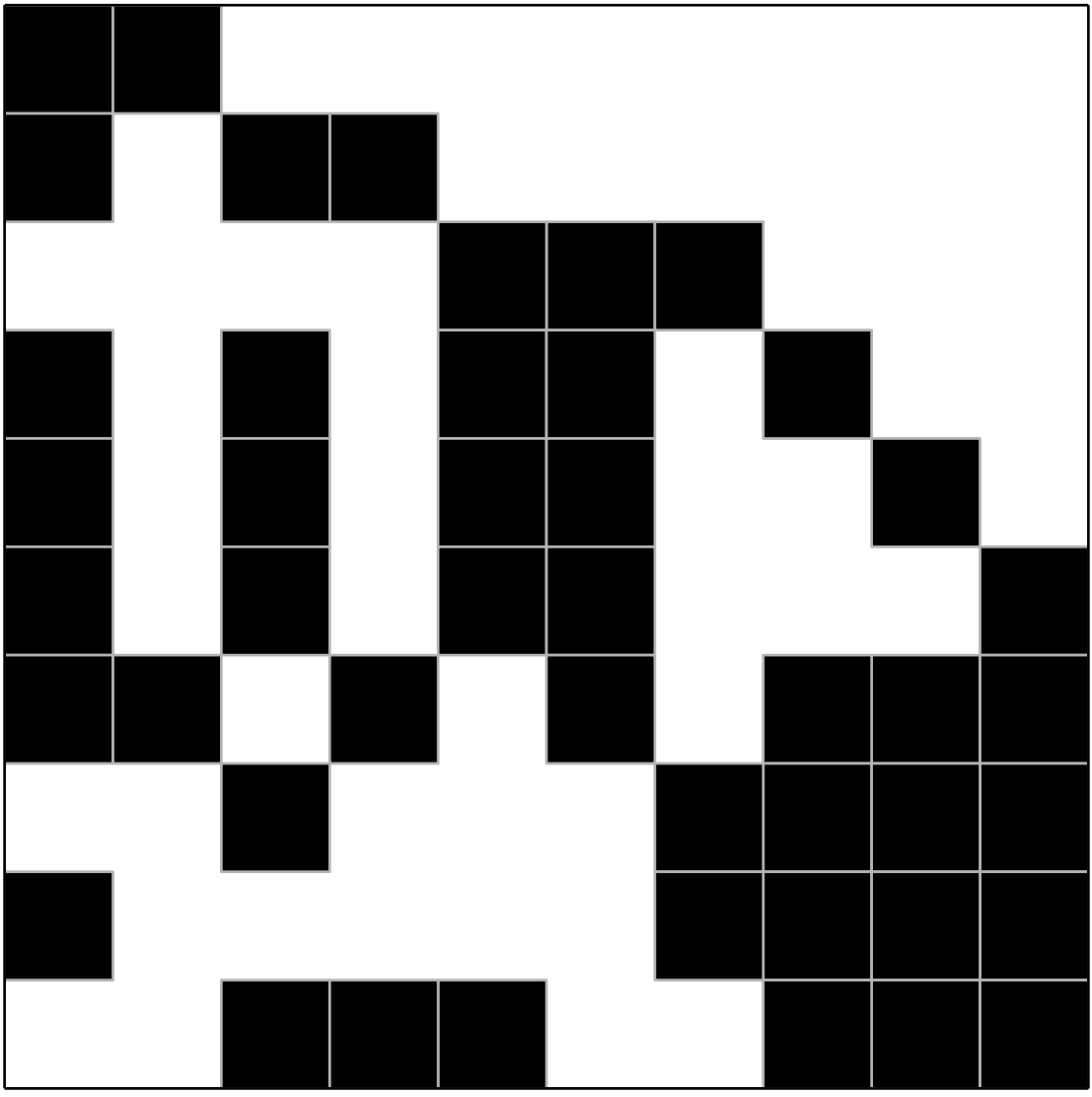
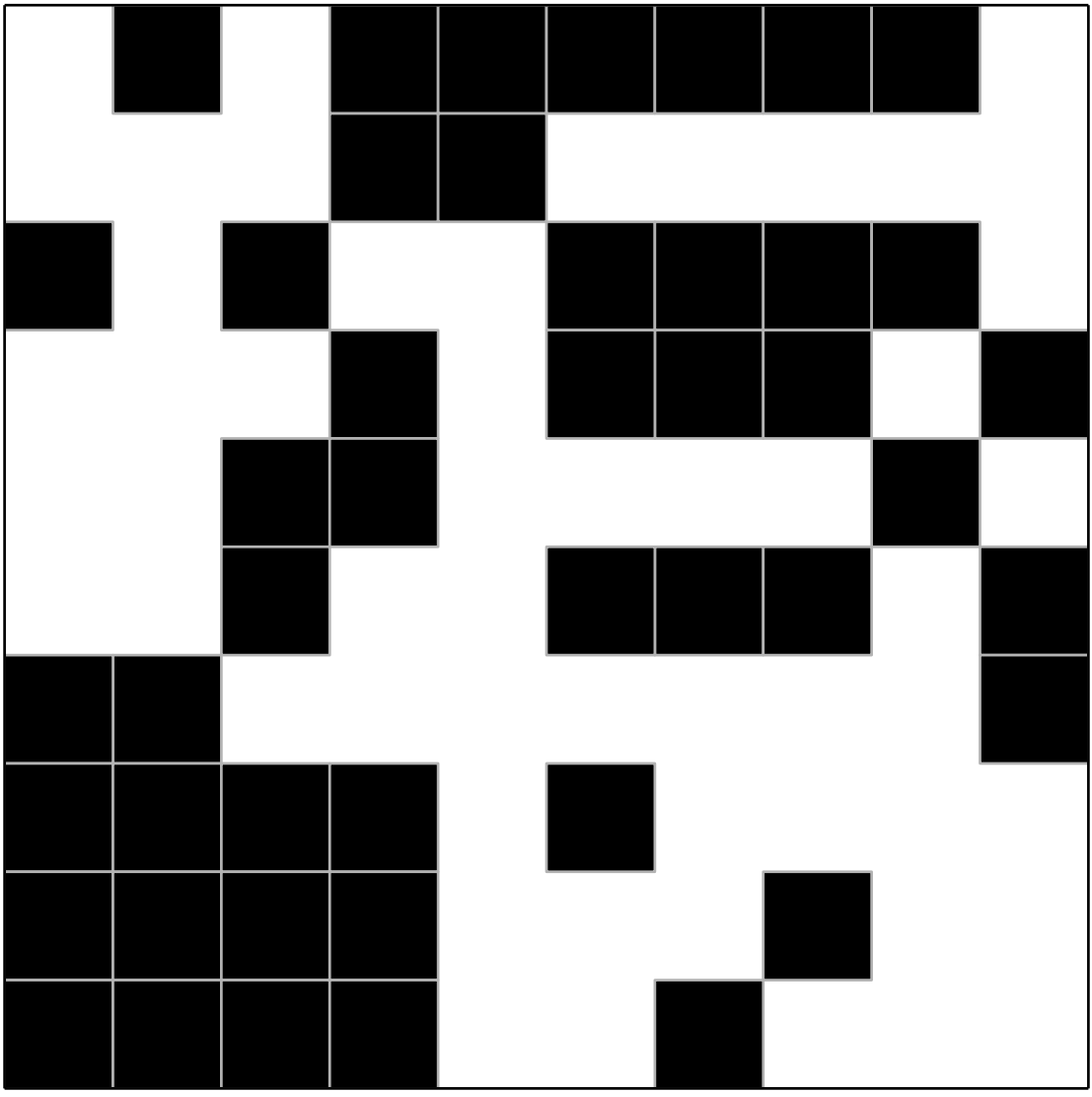
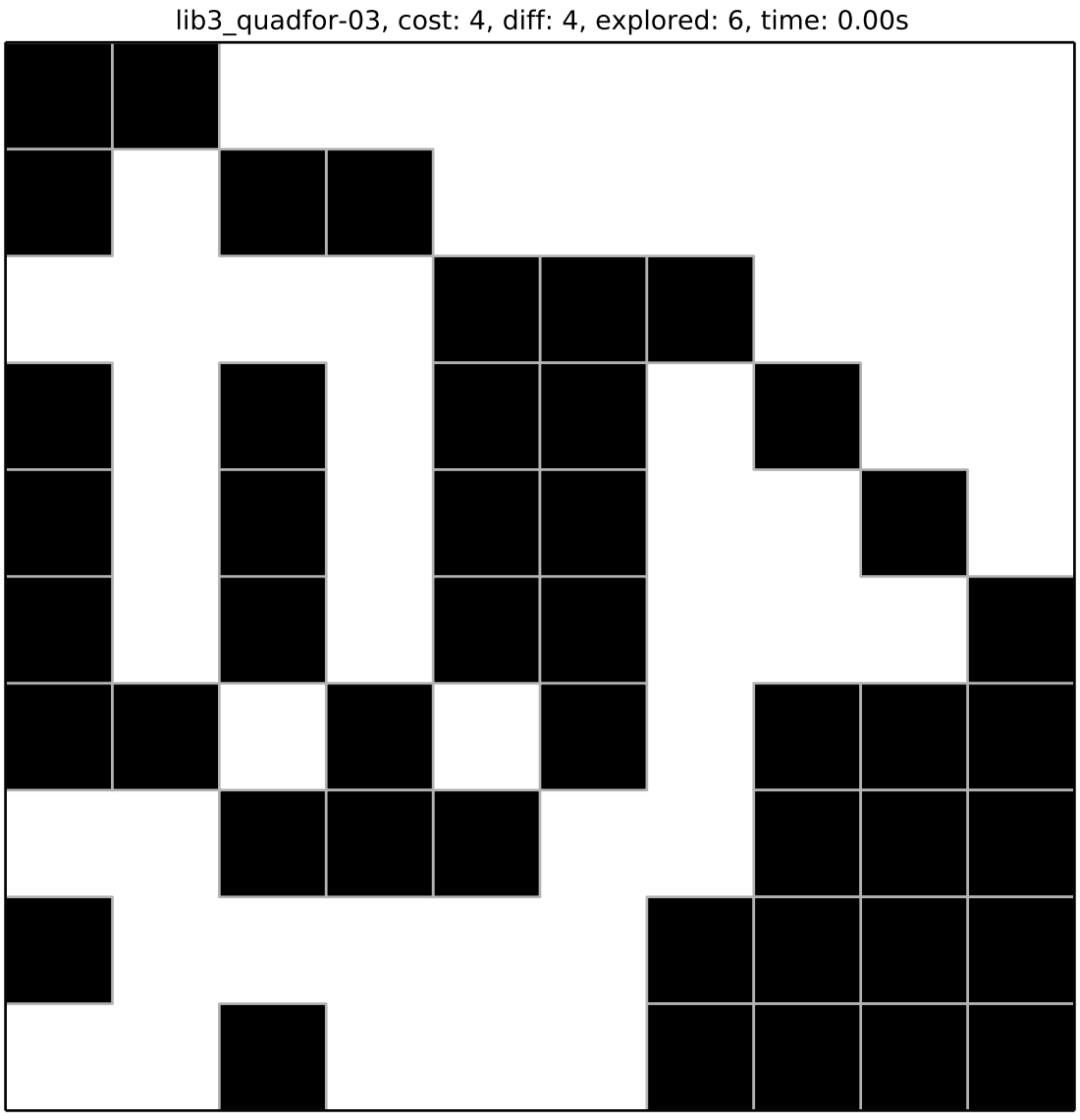


lib3_quadfor-03 10x10 (46) con: 6, var: 4

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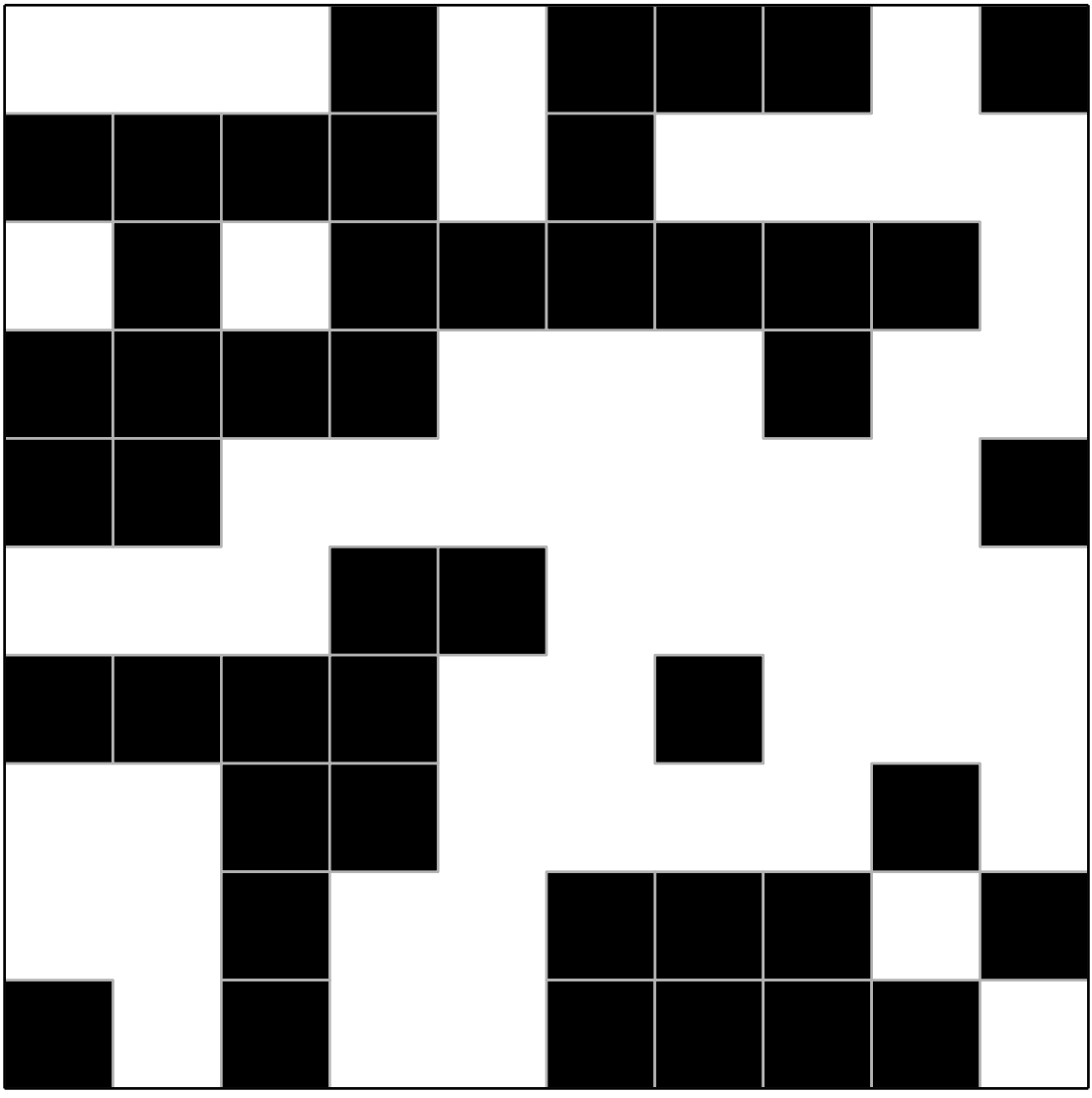
lib3_quadfor-04 10x10 (46) con: 6, var: 4



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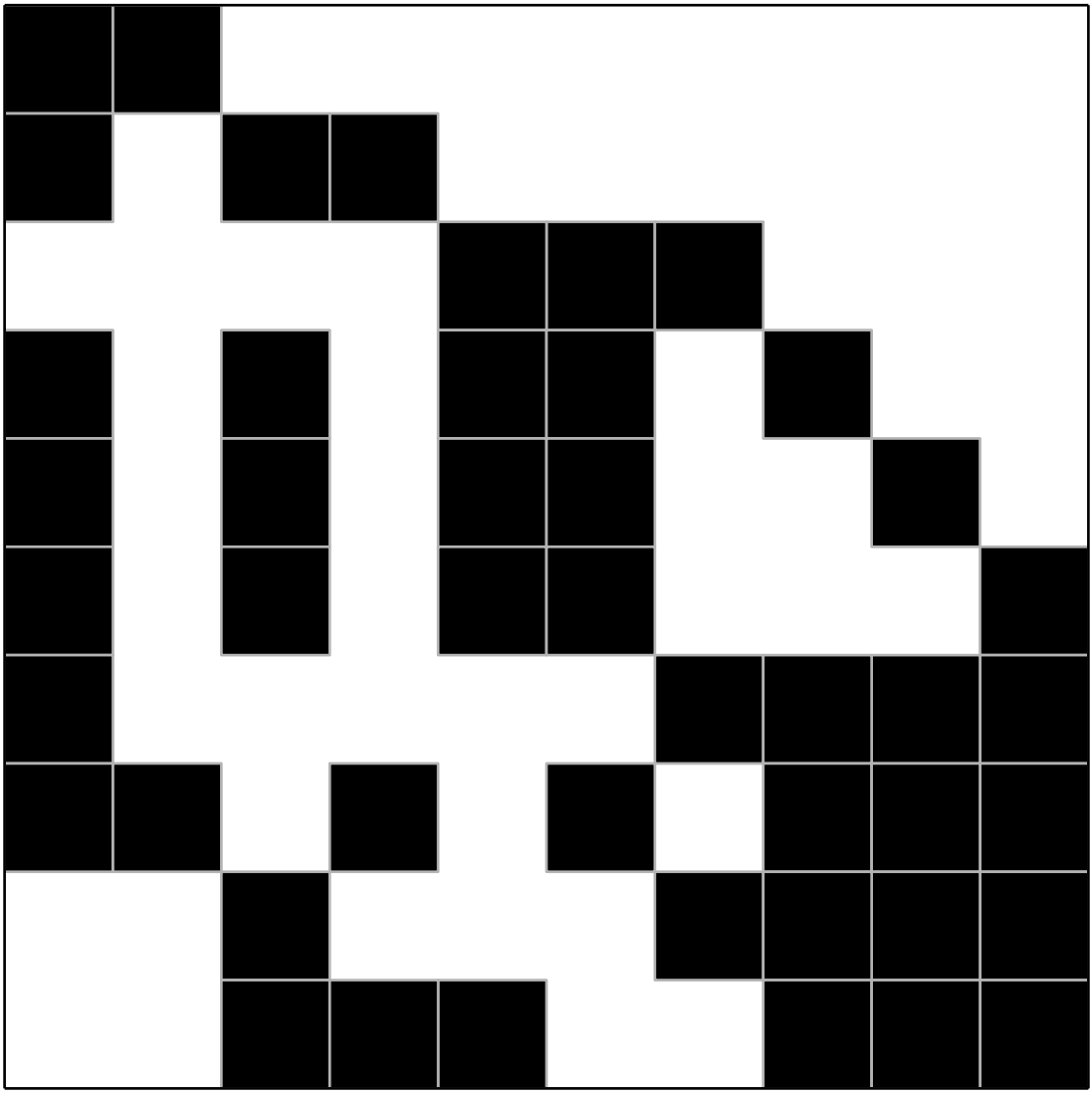

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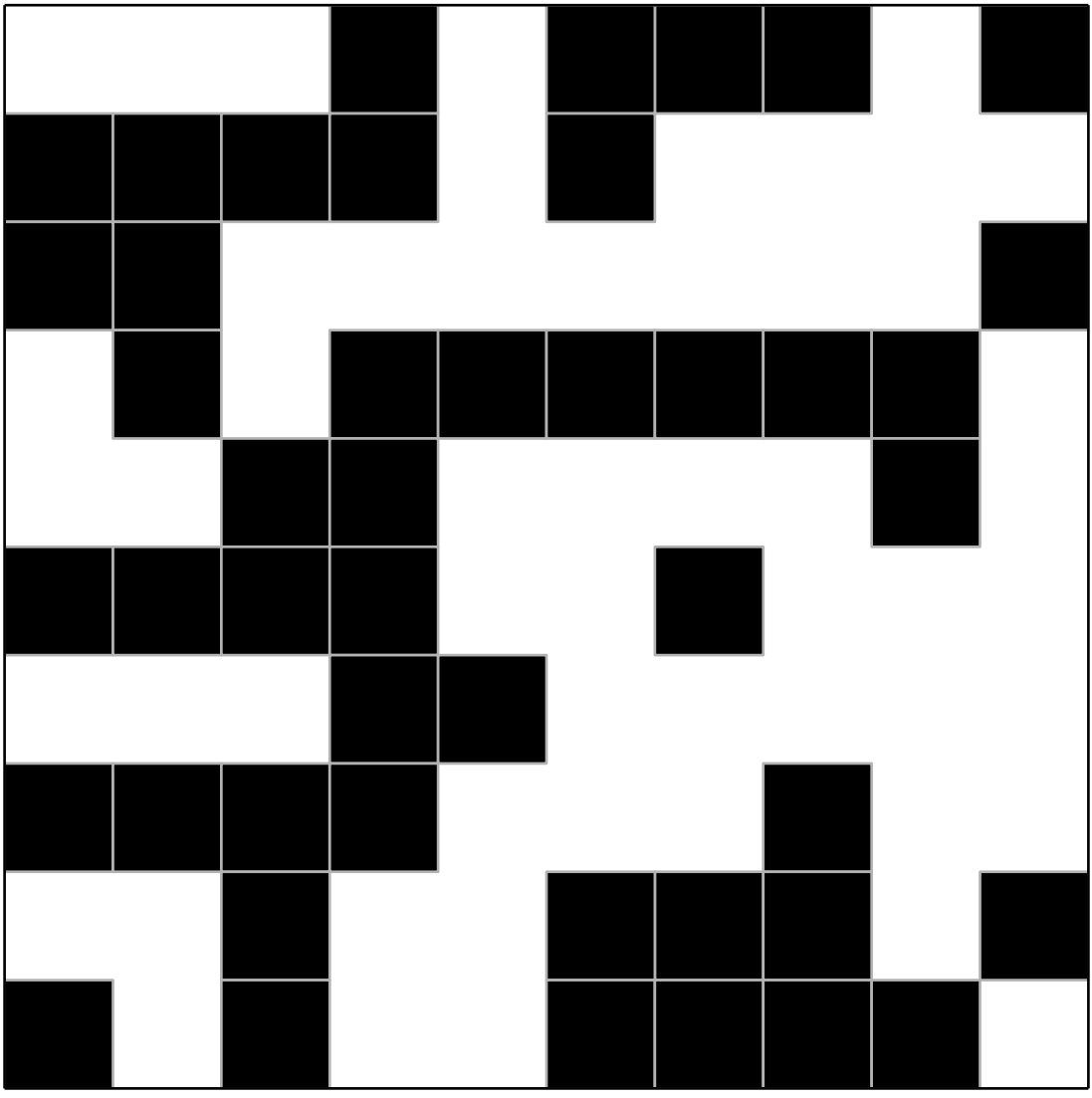

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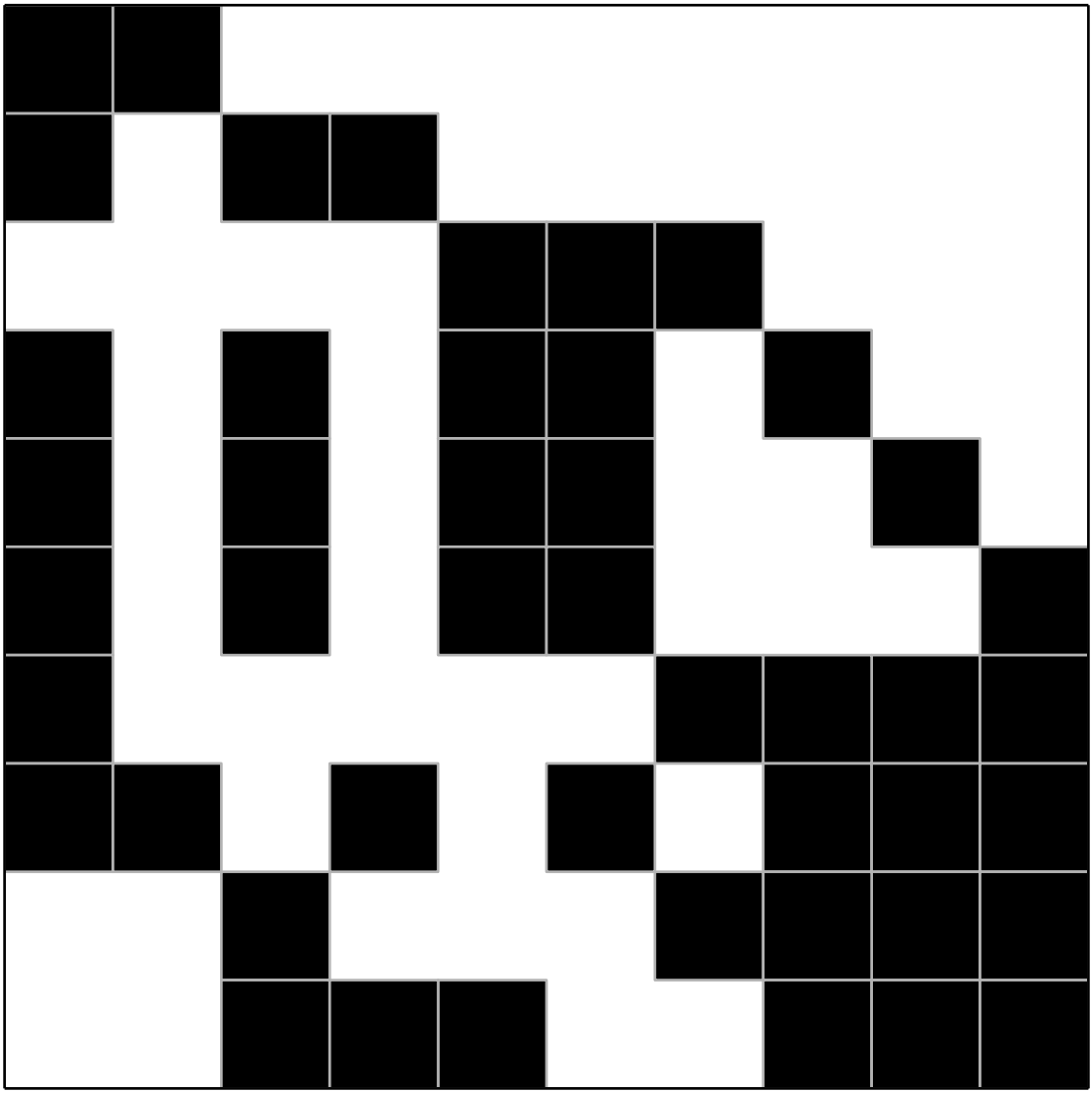
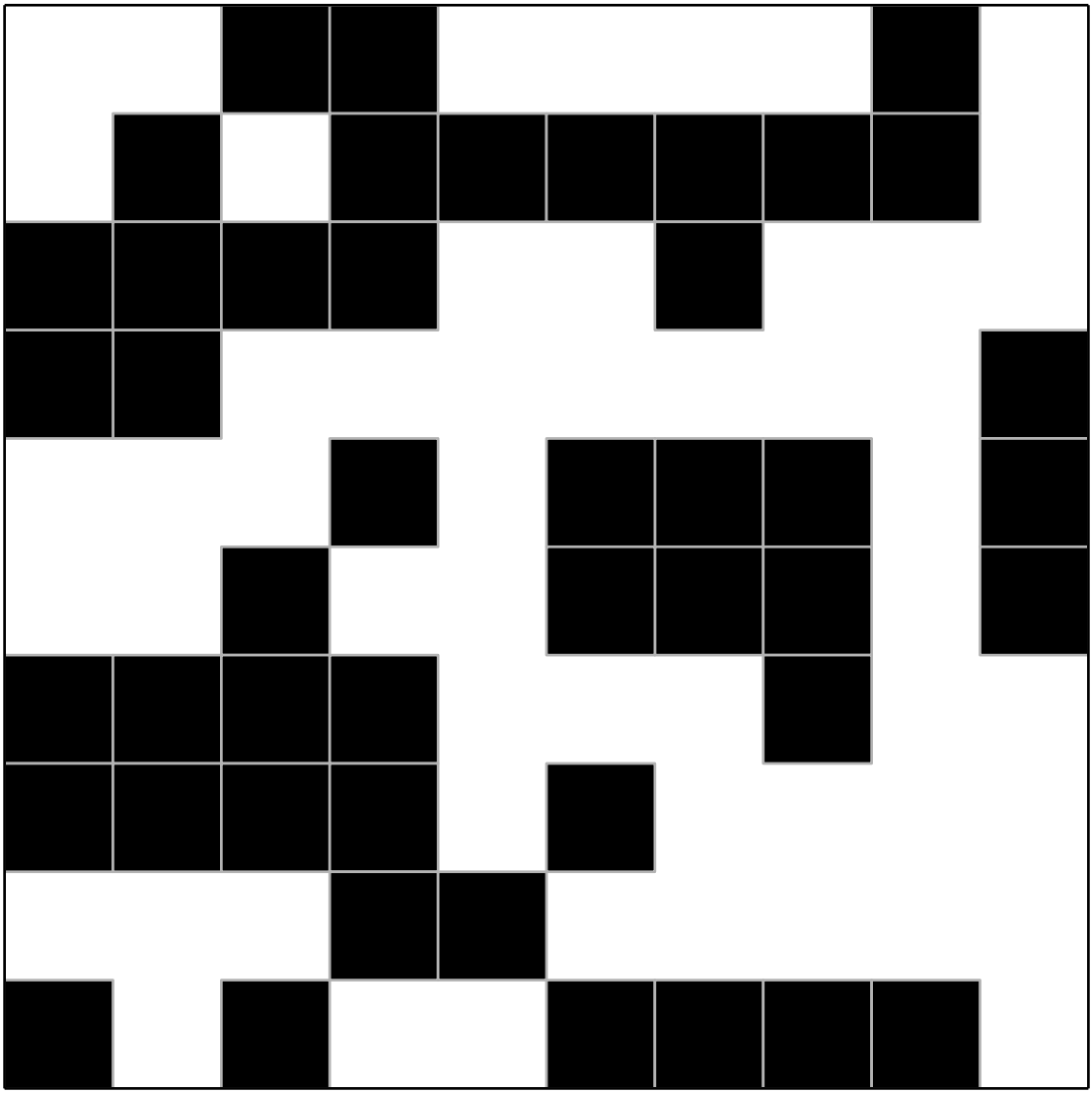


lib3_quadfor-06 10x10 (46) con: 6, var: 4



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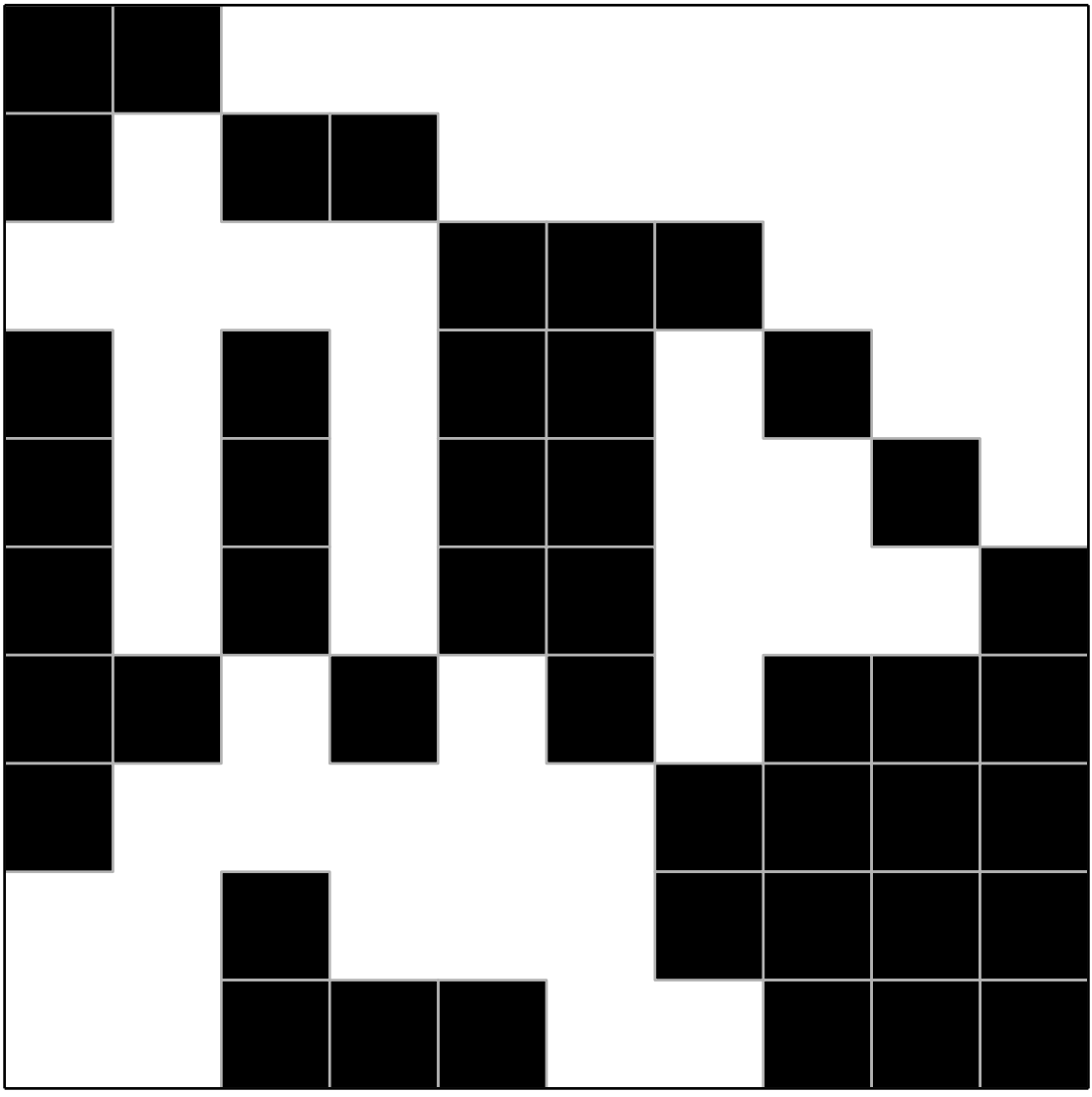
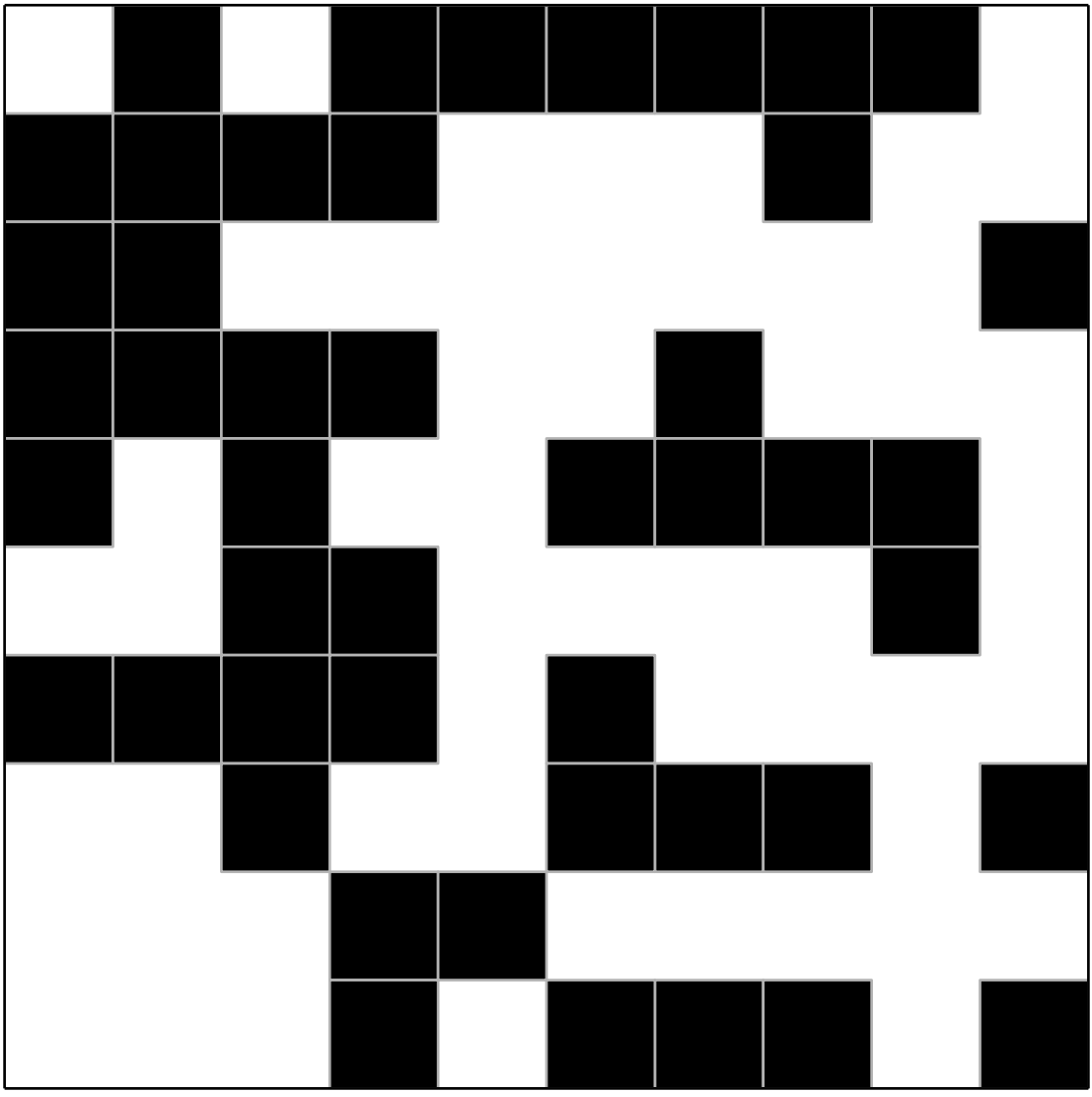
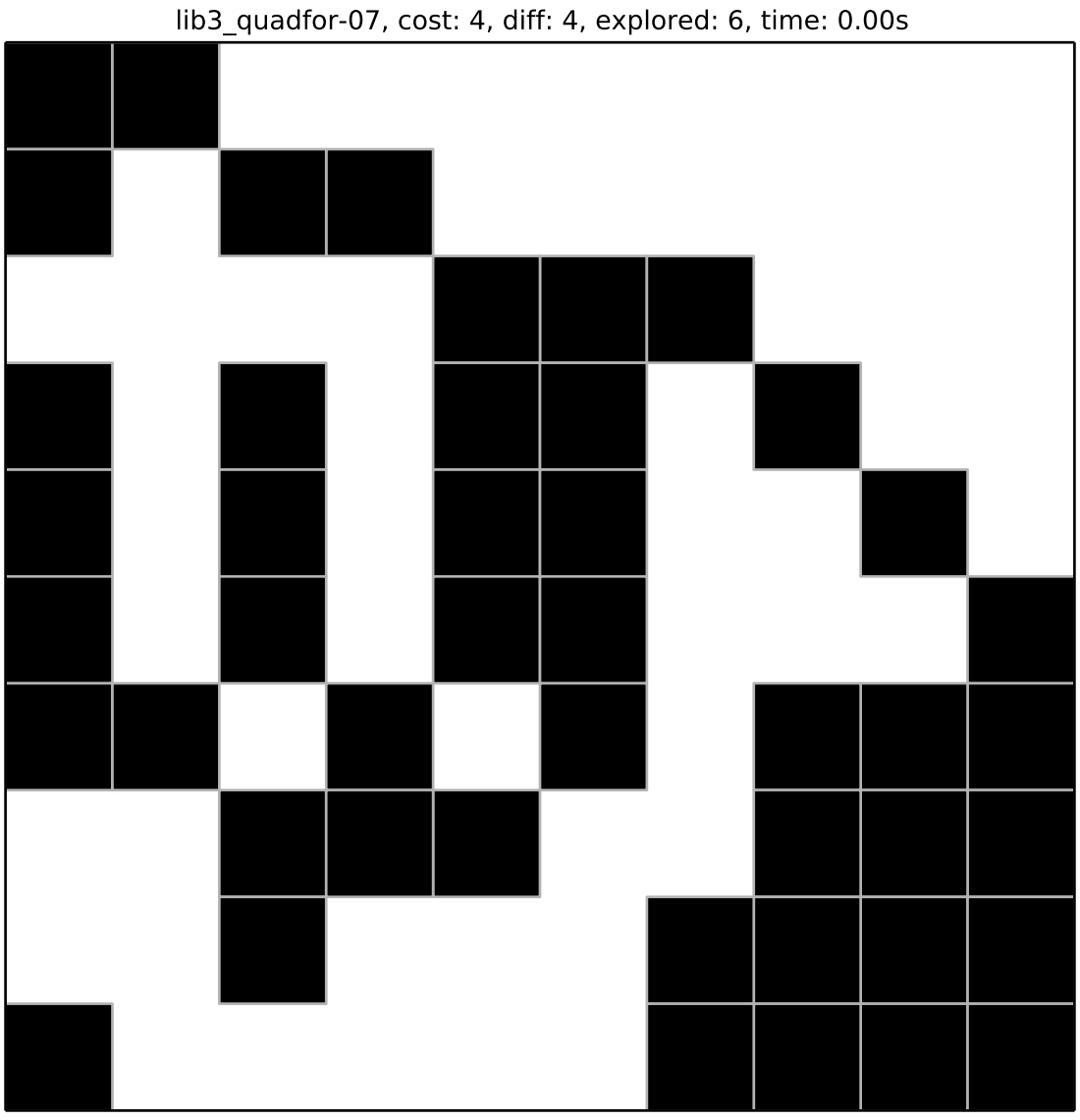


lib3_quadfor-07 10x10 (46) con: 6, var: 4

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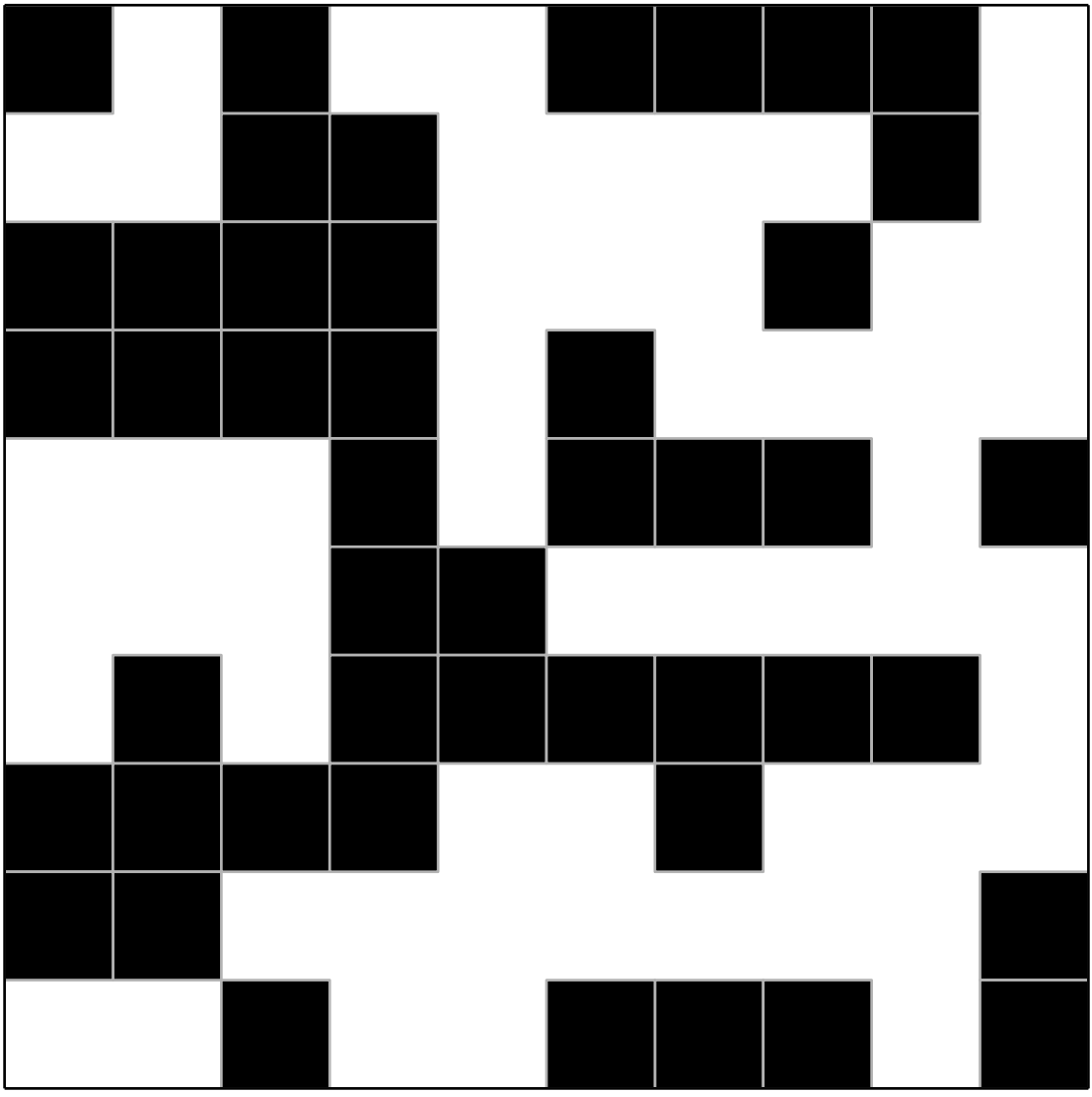
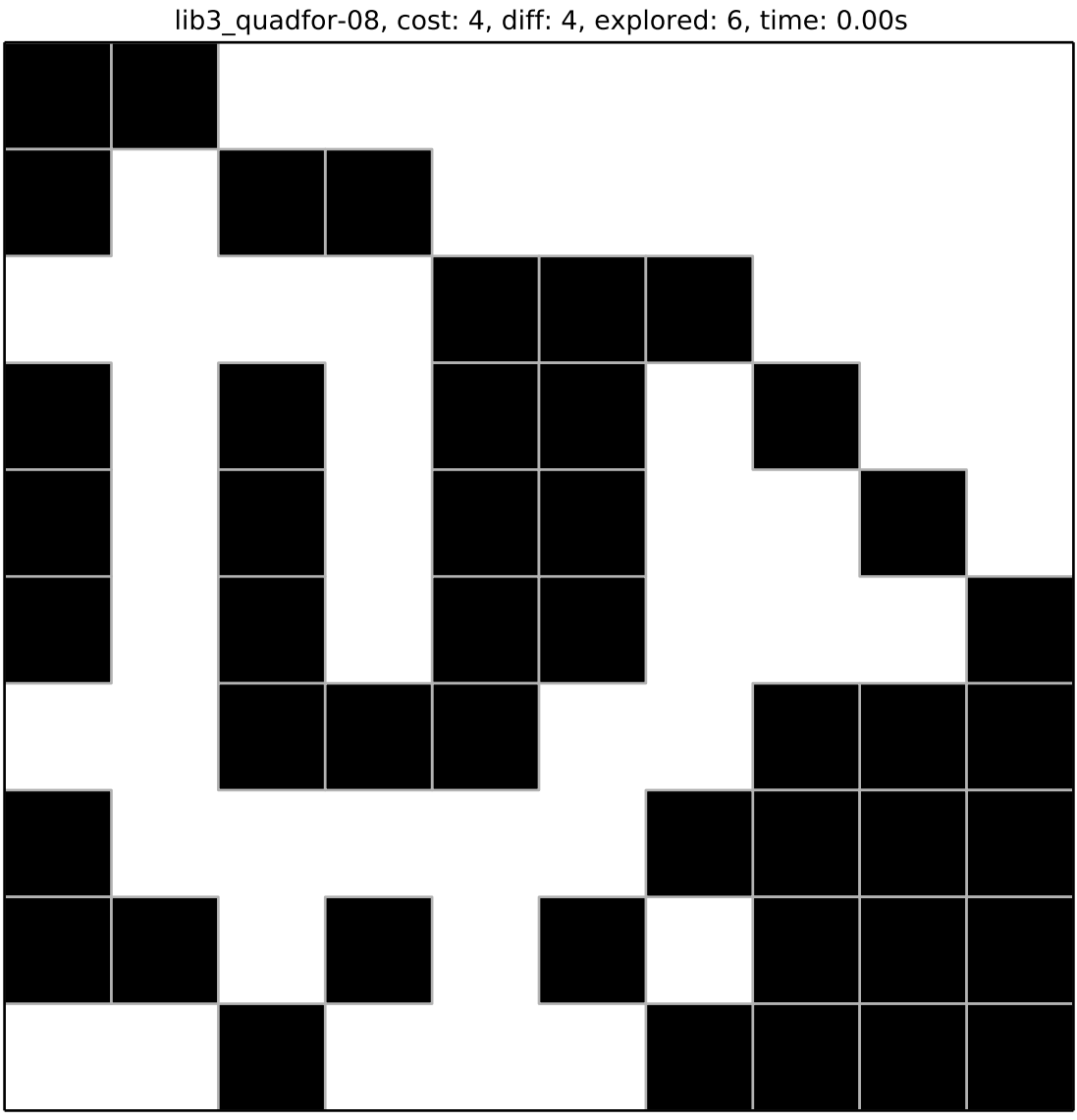
lib3_quadfor-08 10x10 (46) con: 6, var: 4

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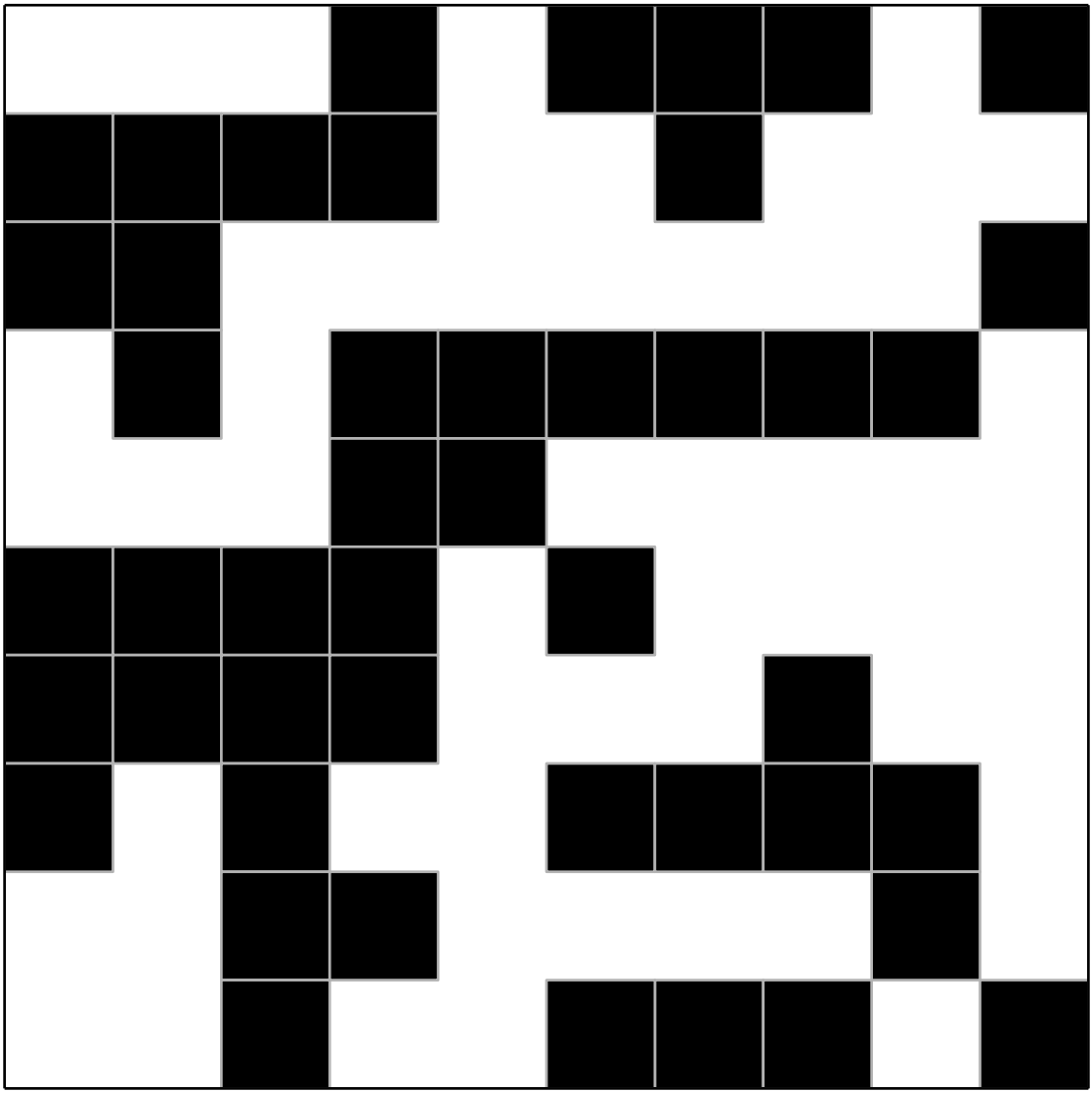
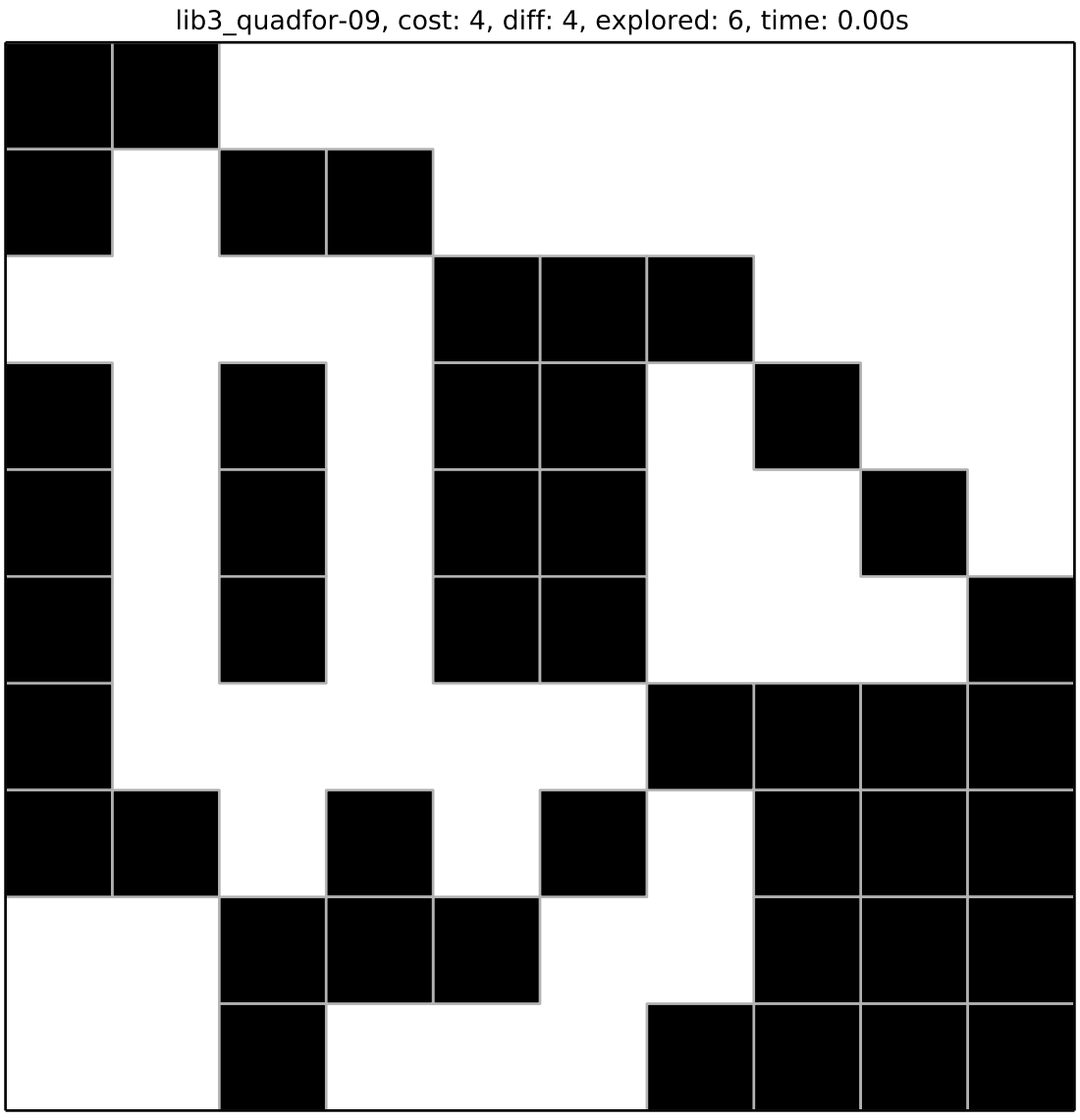
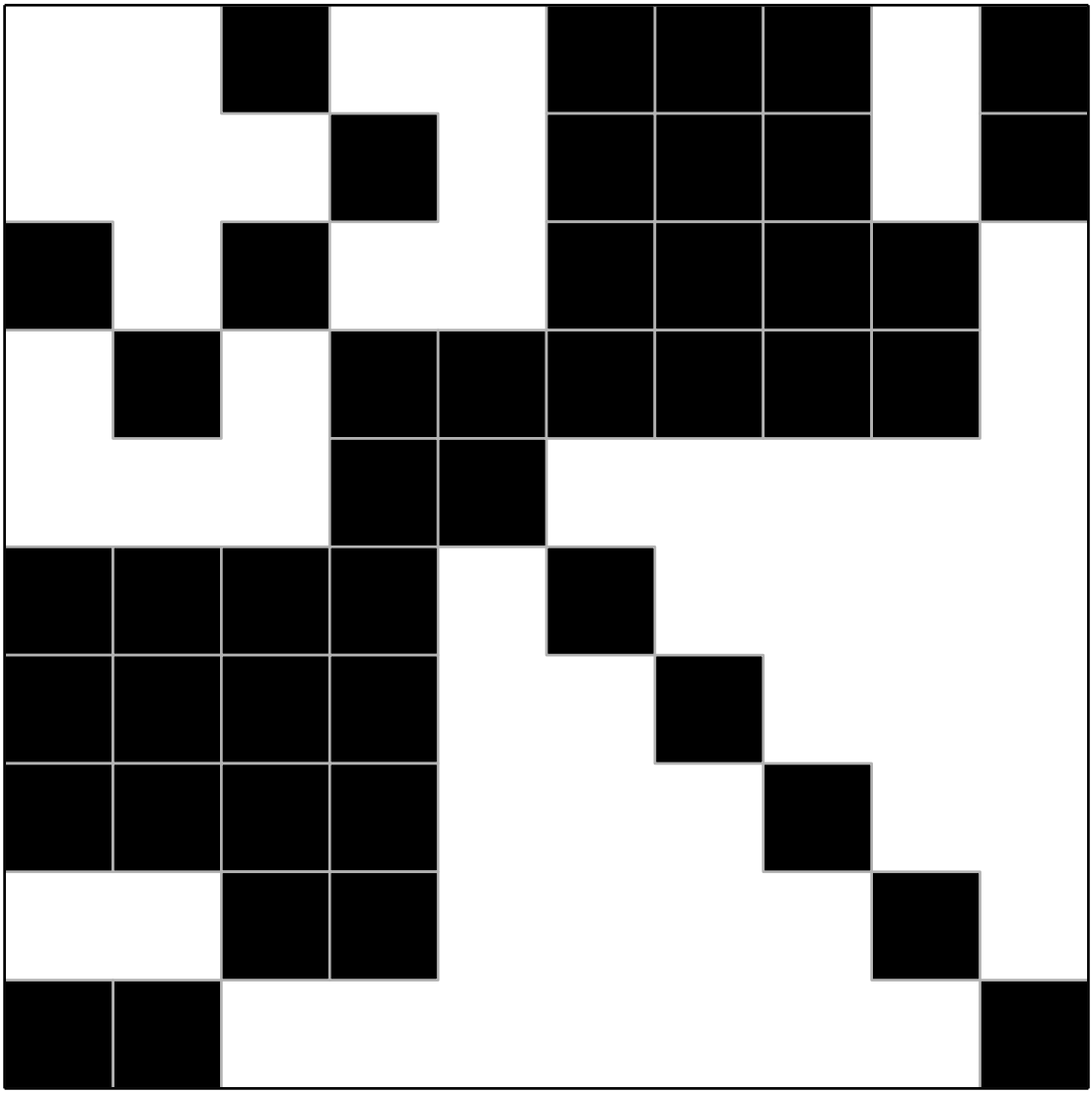
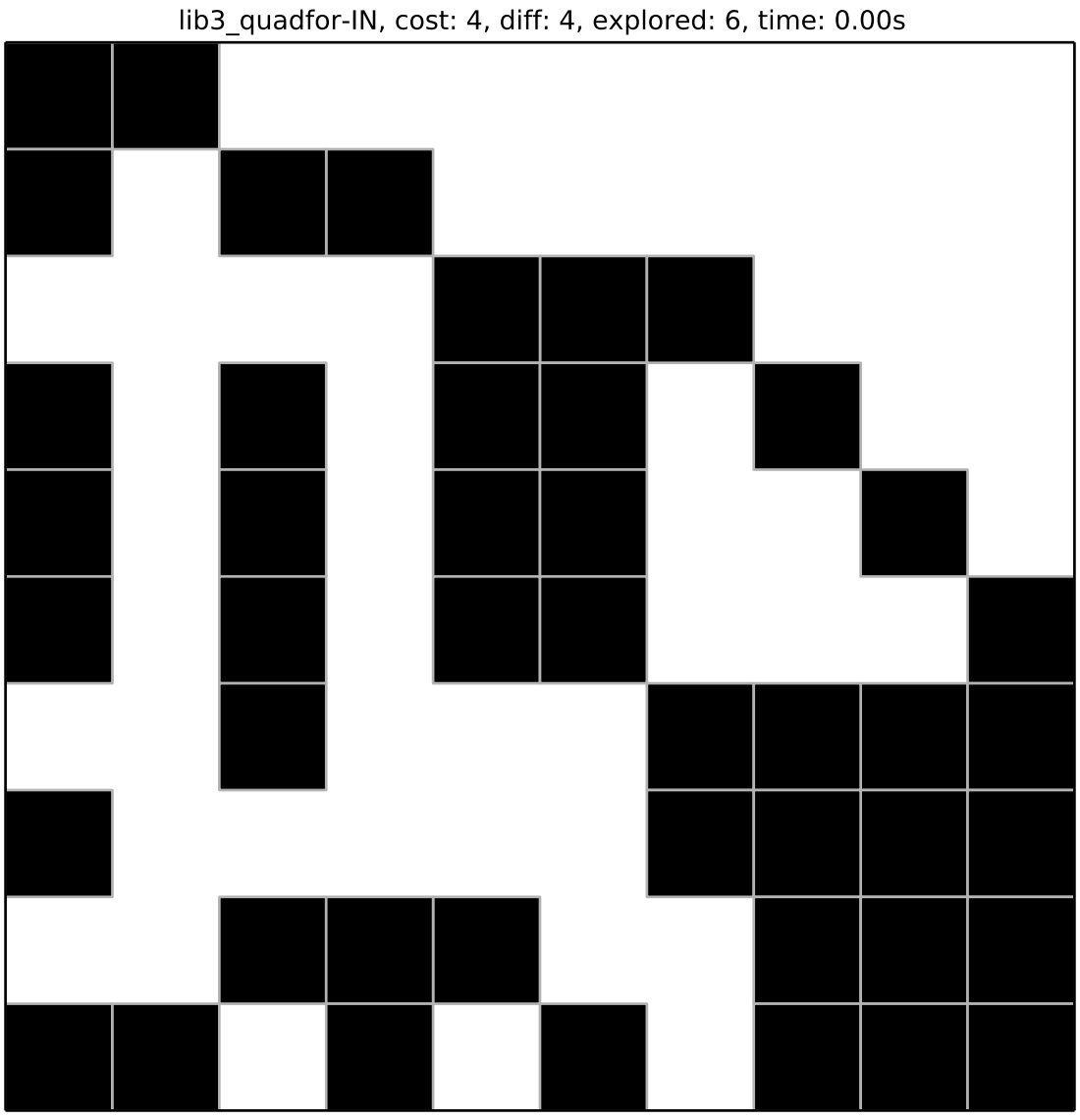
lib3_quadfor-09 10x10 (46) con: 6, var: 4



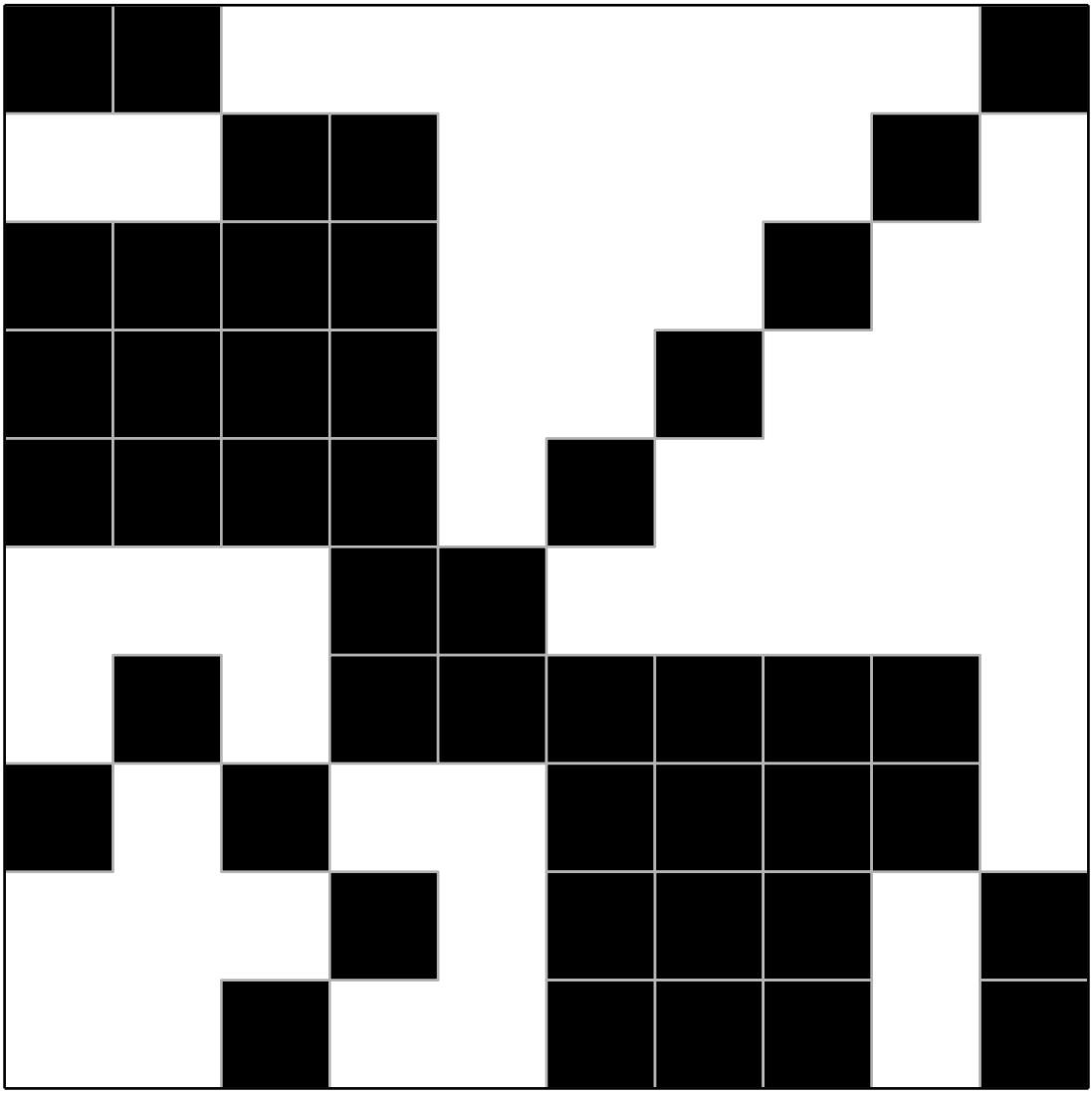

lib3_quadfor-09, cost: 4, diff: 4, explored: 6, time: 0.00s

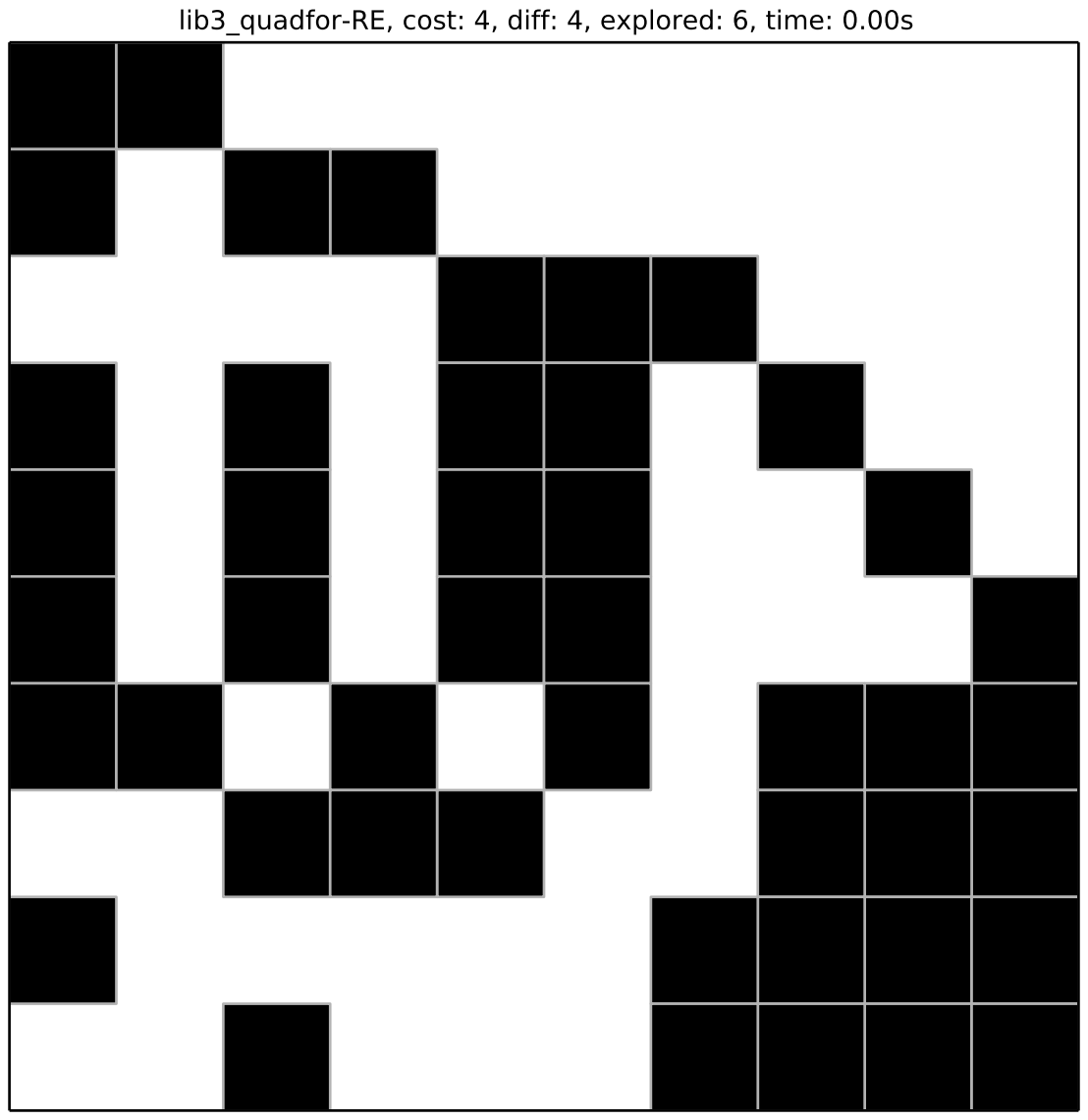
lib3_quadfor-IN 10x10 (46) con: 6, var: 4



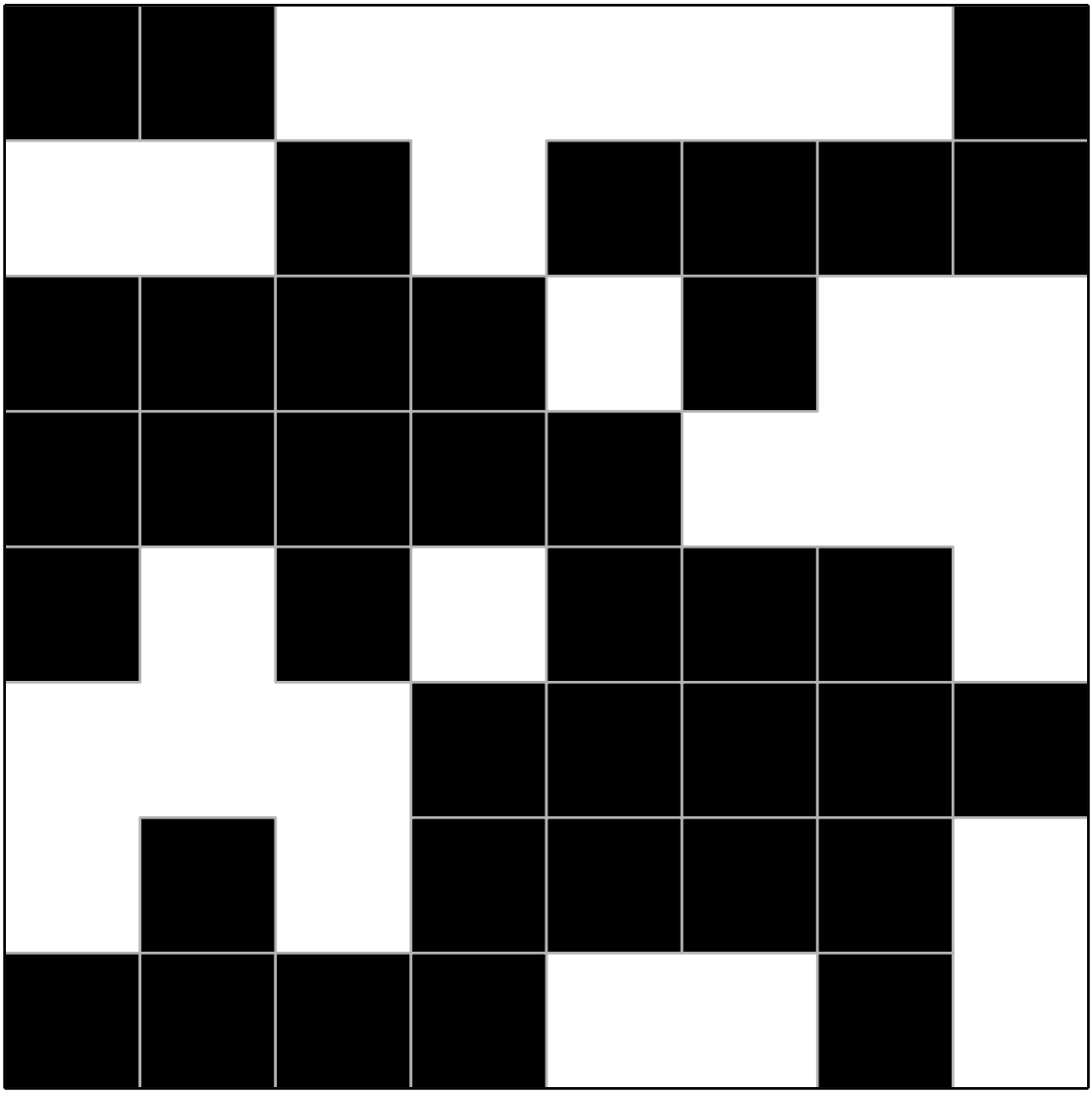

lib3_quadfor-IN, cost: 4, diff: 4, explored: 6, time: 0.00s

lib3_quadfor-RE 10x10 (46) con: 6, var: 4

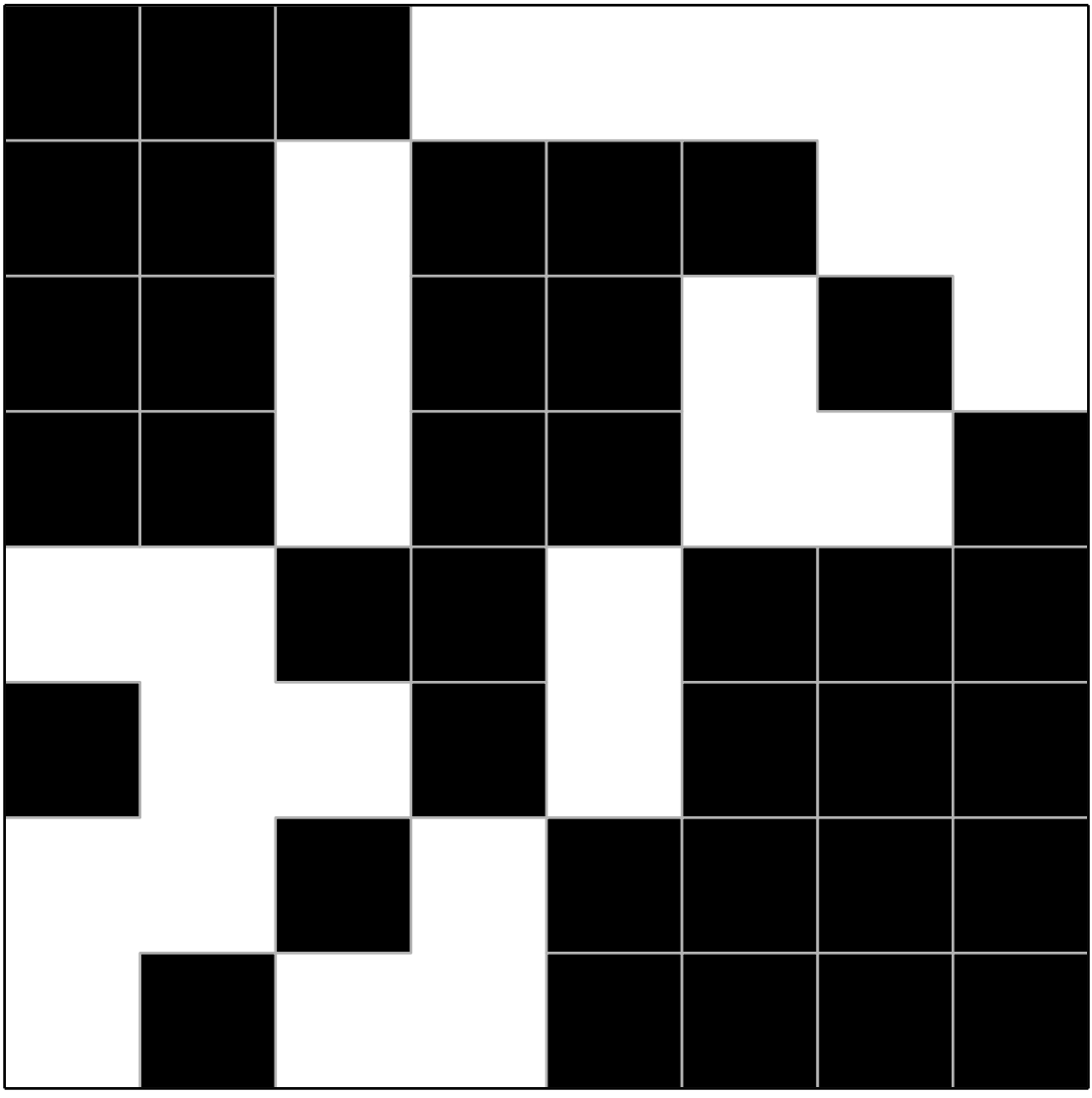



lib3_quadfor-RE, cost: 4, diff: 4, explored: 6, time: 0.00s

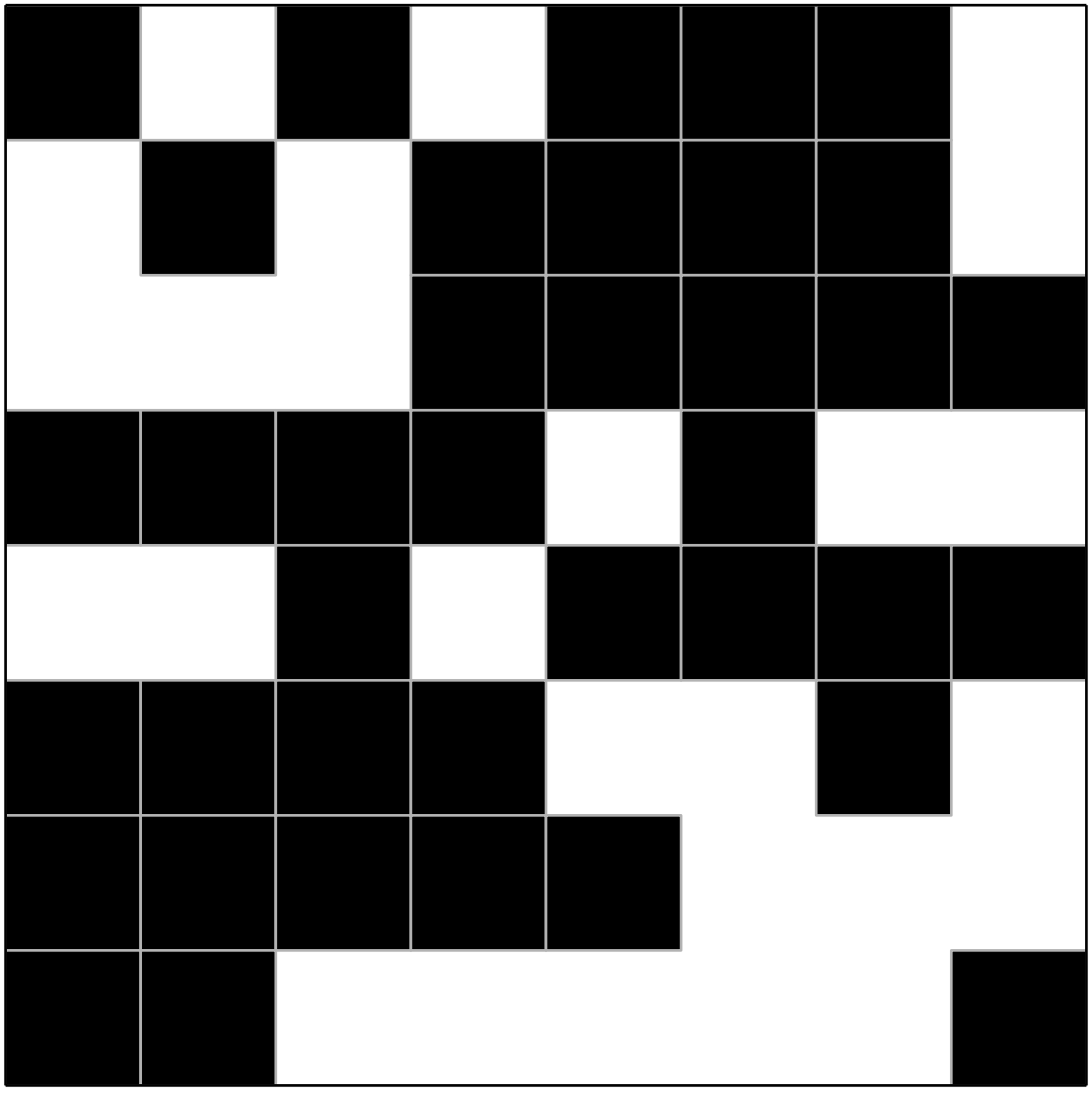
lib3_quadfor2-00 8x8 (38) con: 4, var: 4



lib3_quadfor2-00, cost: 4, diff: 4, explored: 2, time: 0.00s



lib3_quadfor2-01 8x8 (38) con: 4, var: 4



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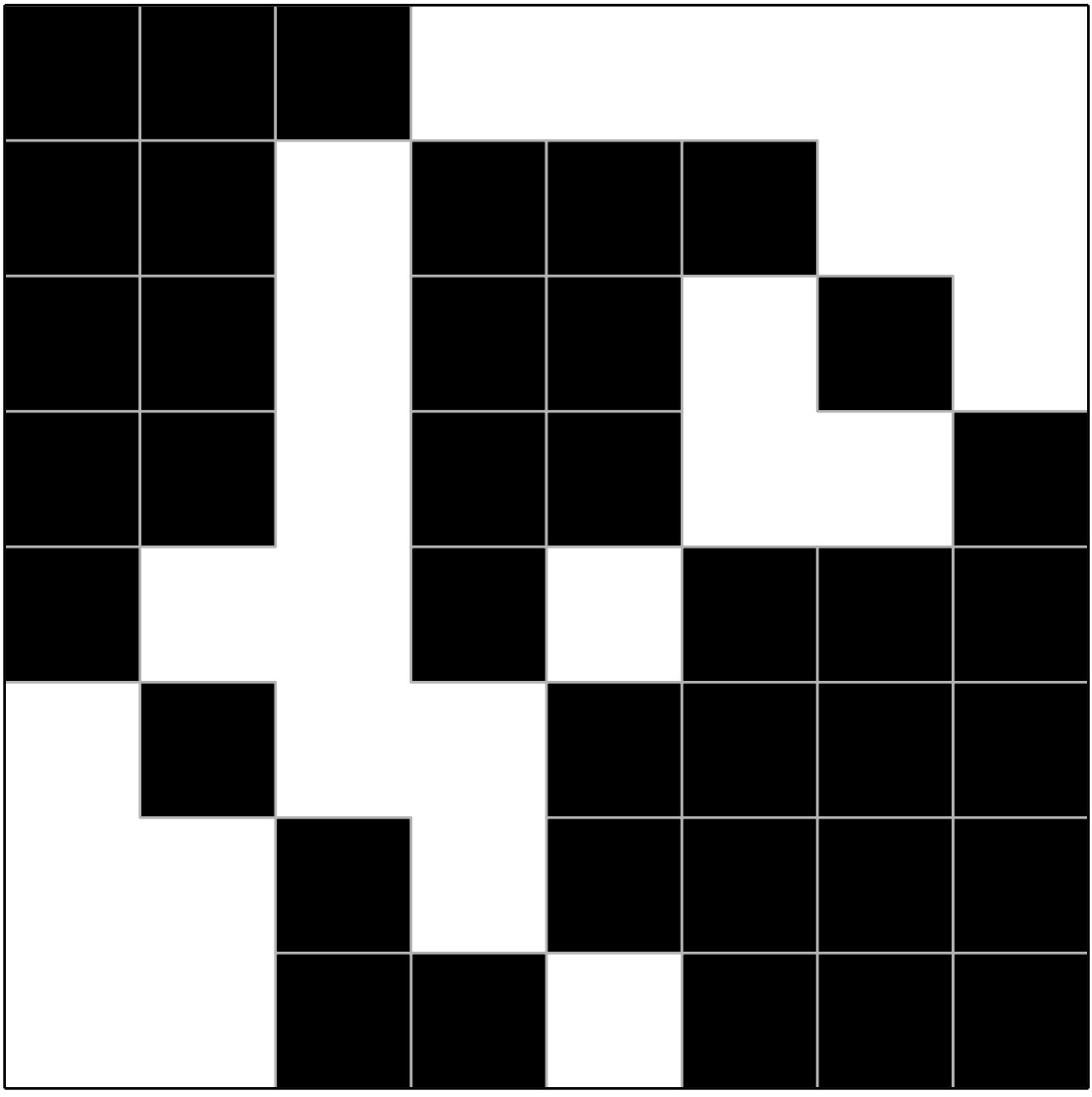
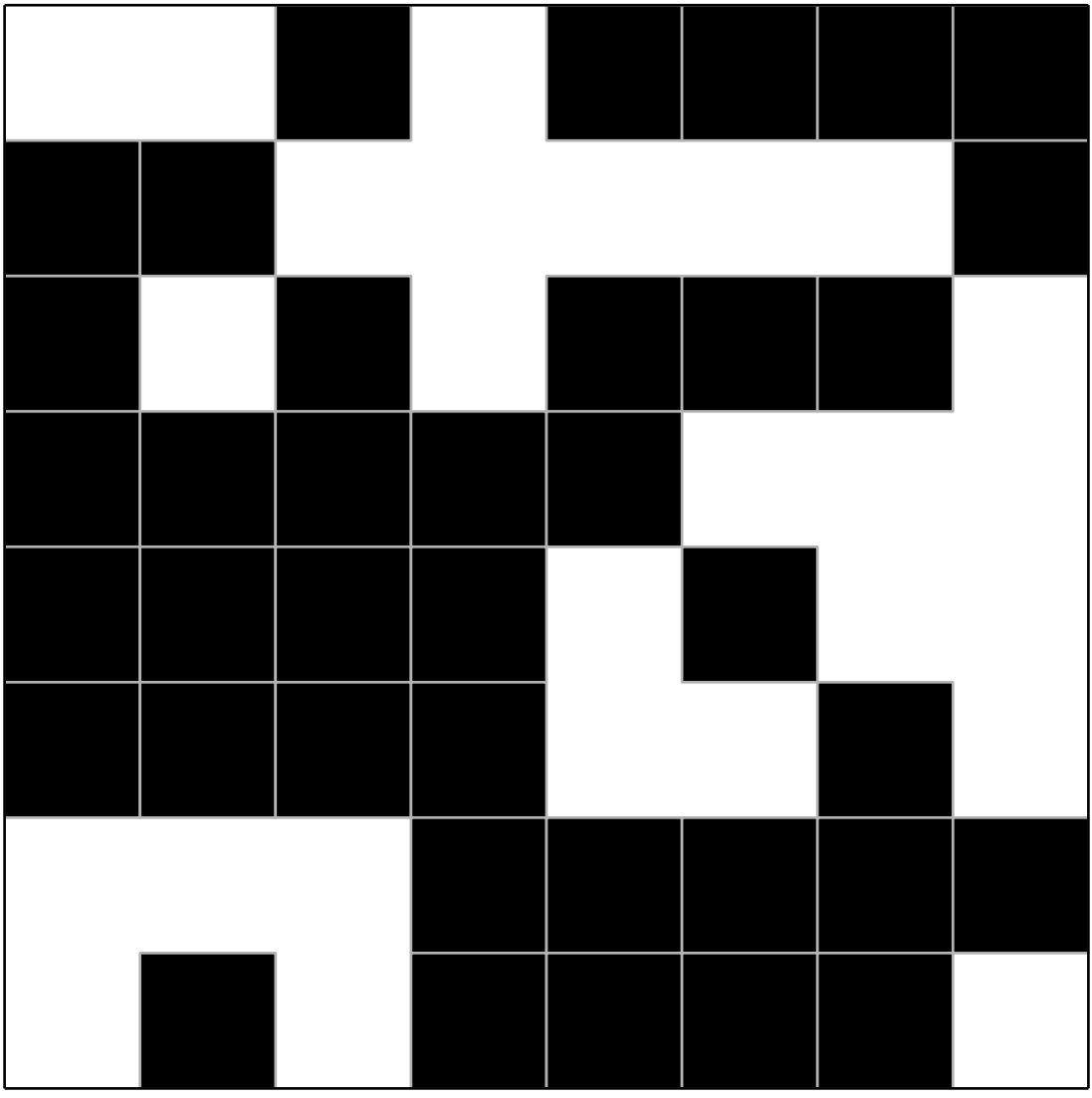
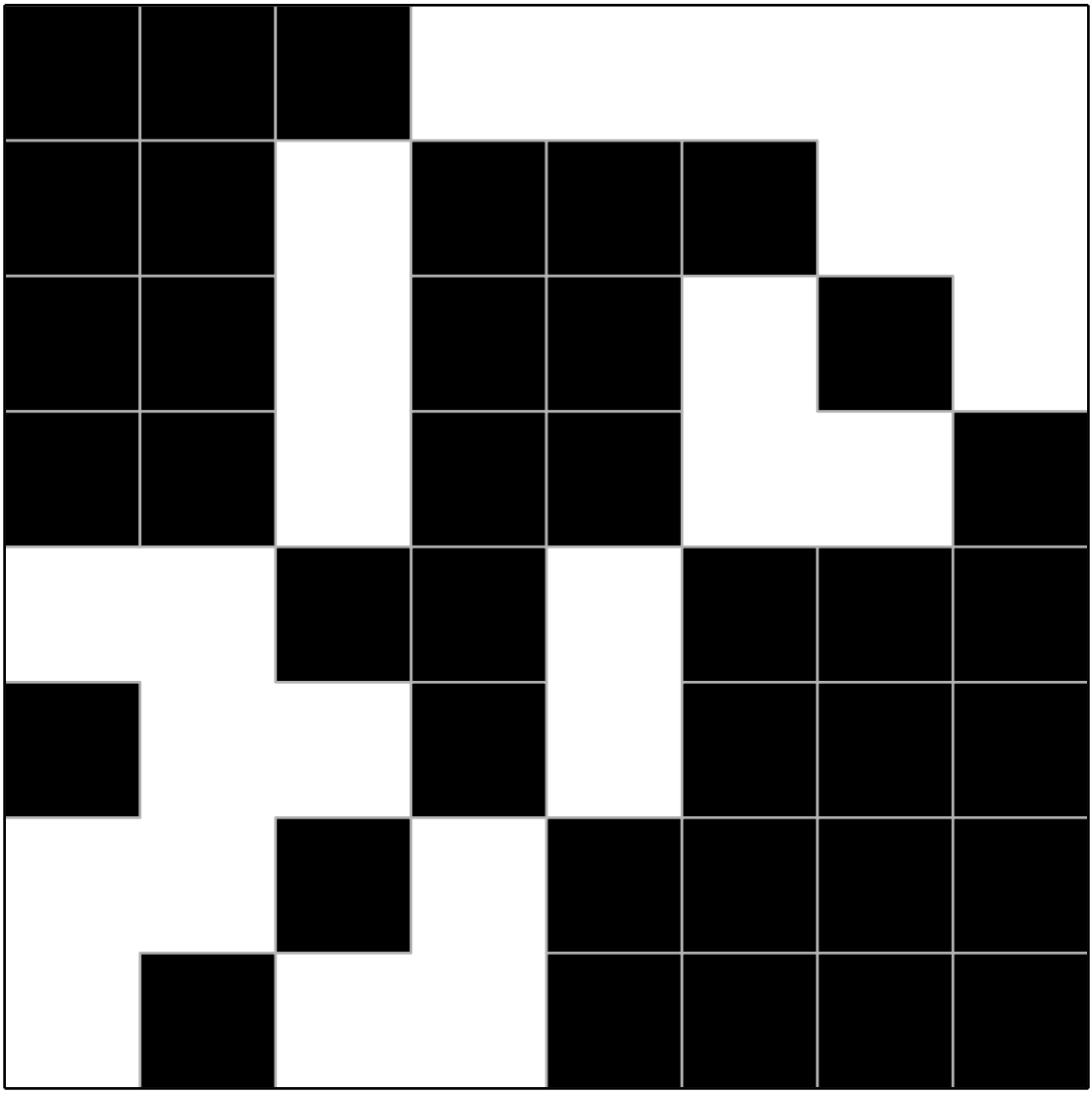


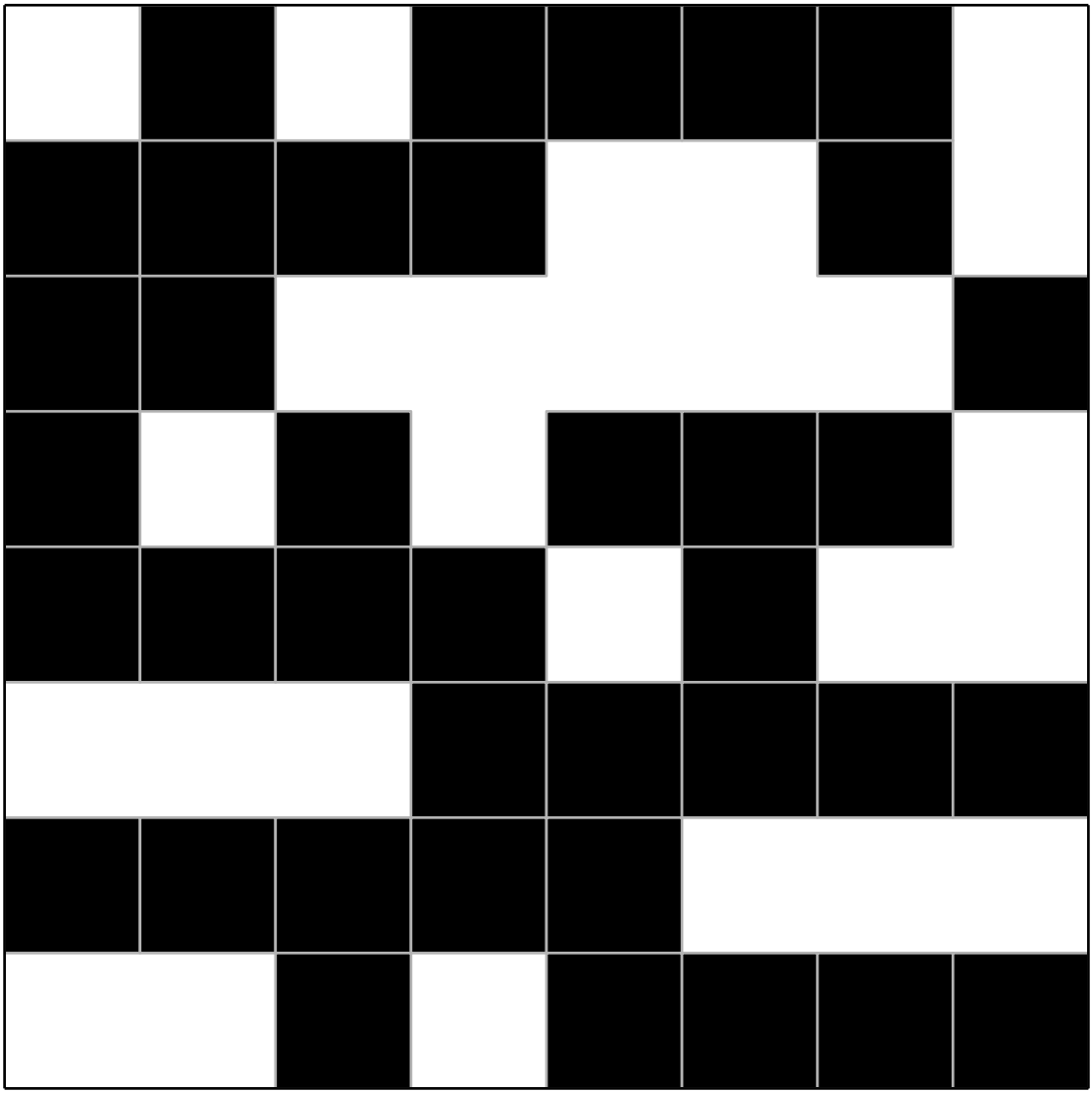
lib3_quadfor2-02 8x8 (38) con: 4, var: 4



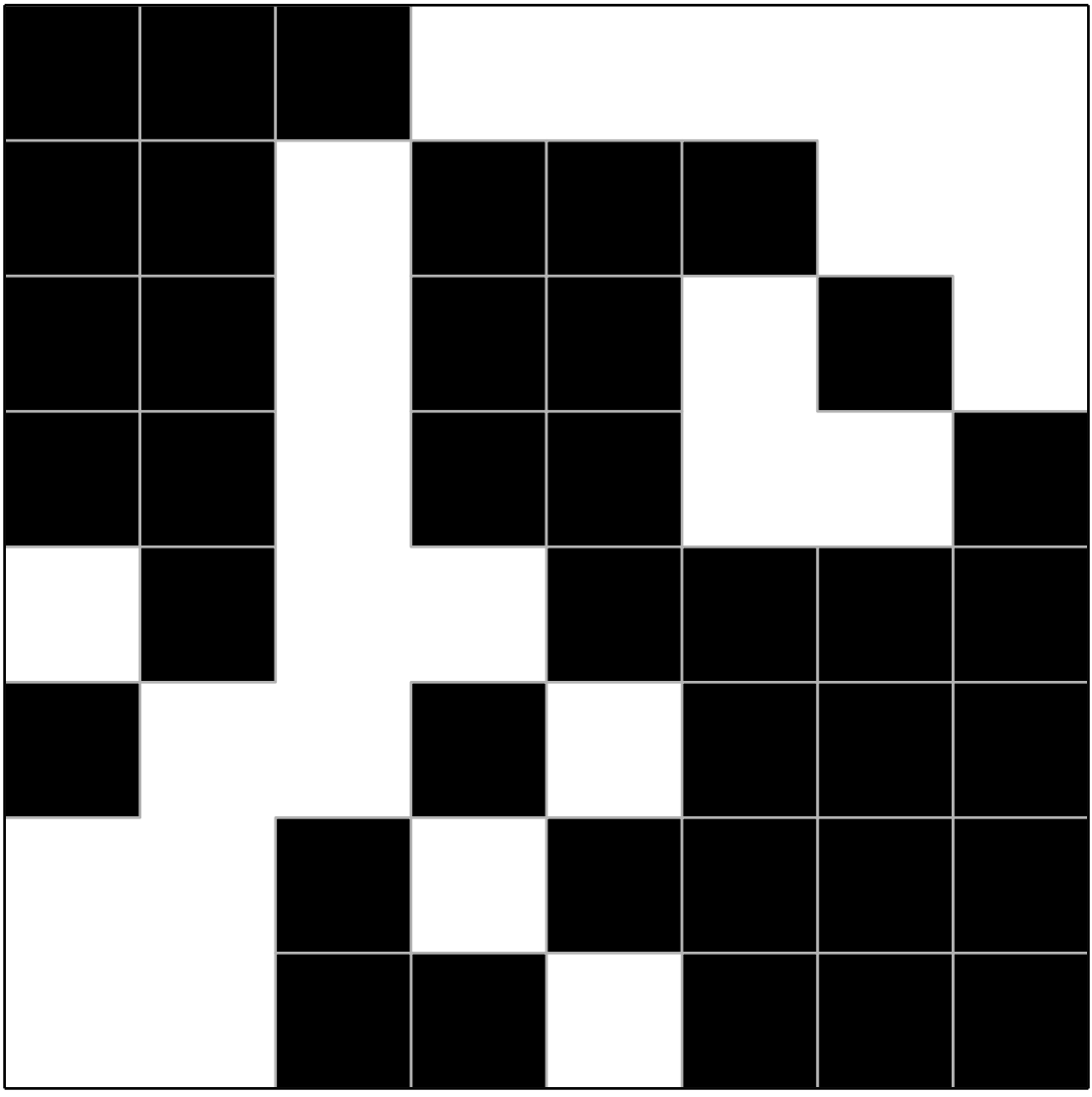
lib3_quadfor2-02, cost: 4, diff: 4, explored: 2, time: 0.00s



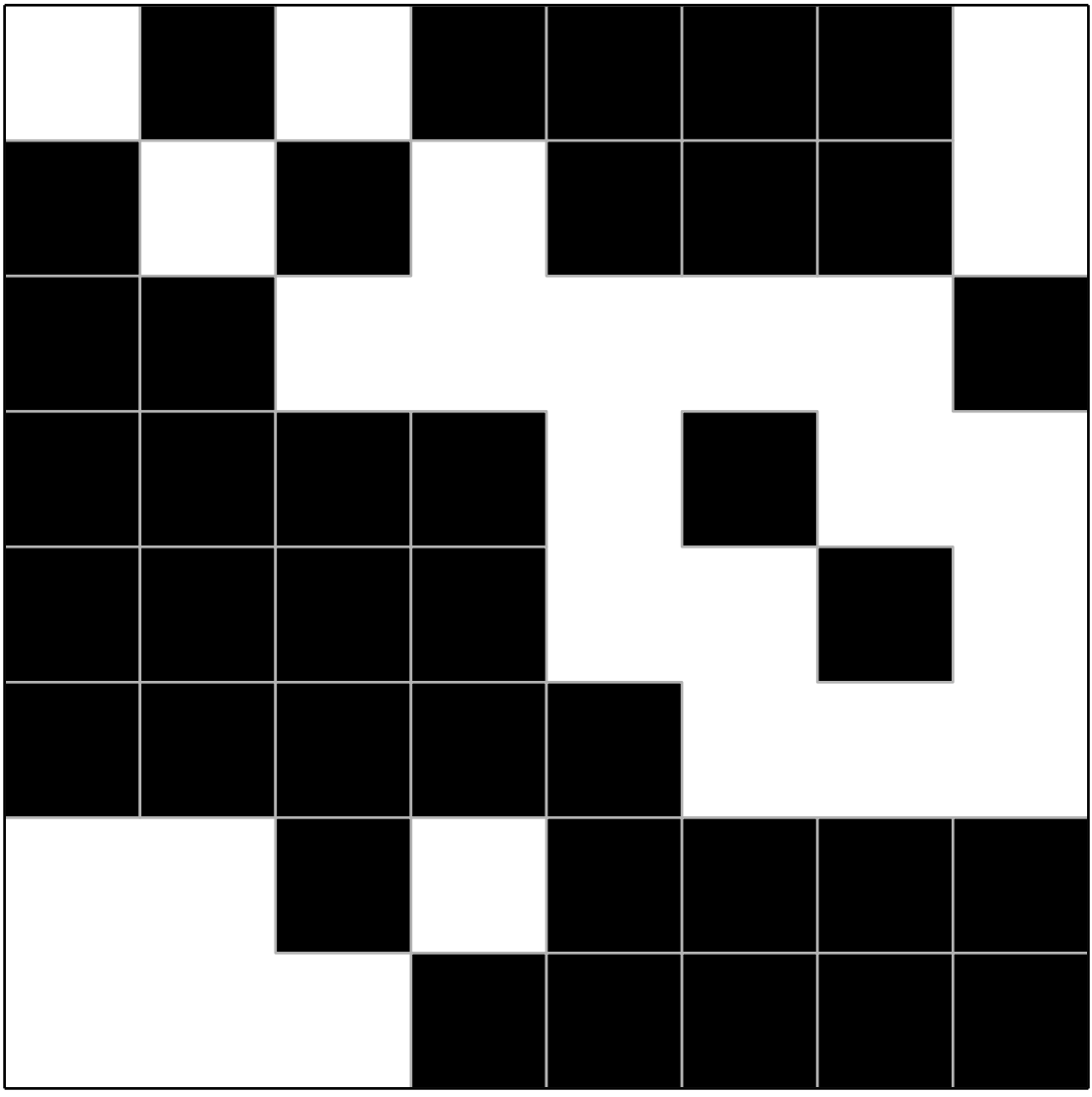
lib3_quadfor2-03 8x8 (38) con: 4, var: 4



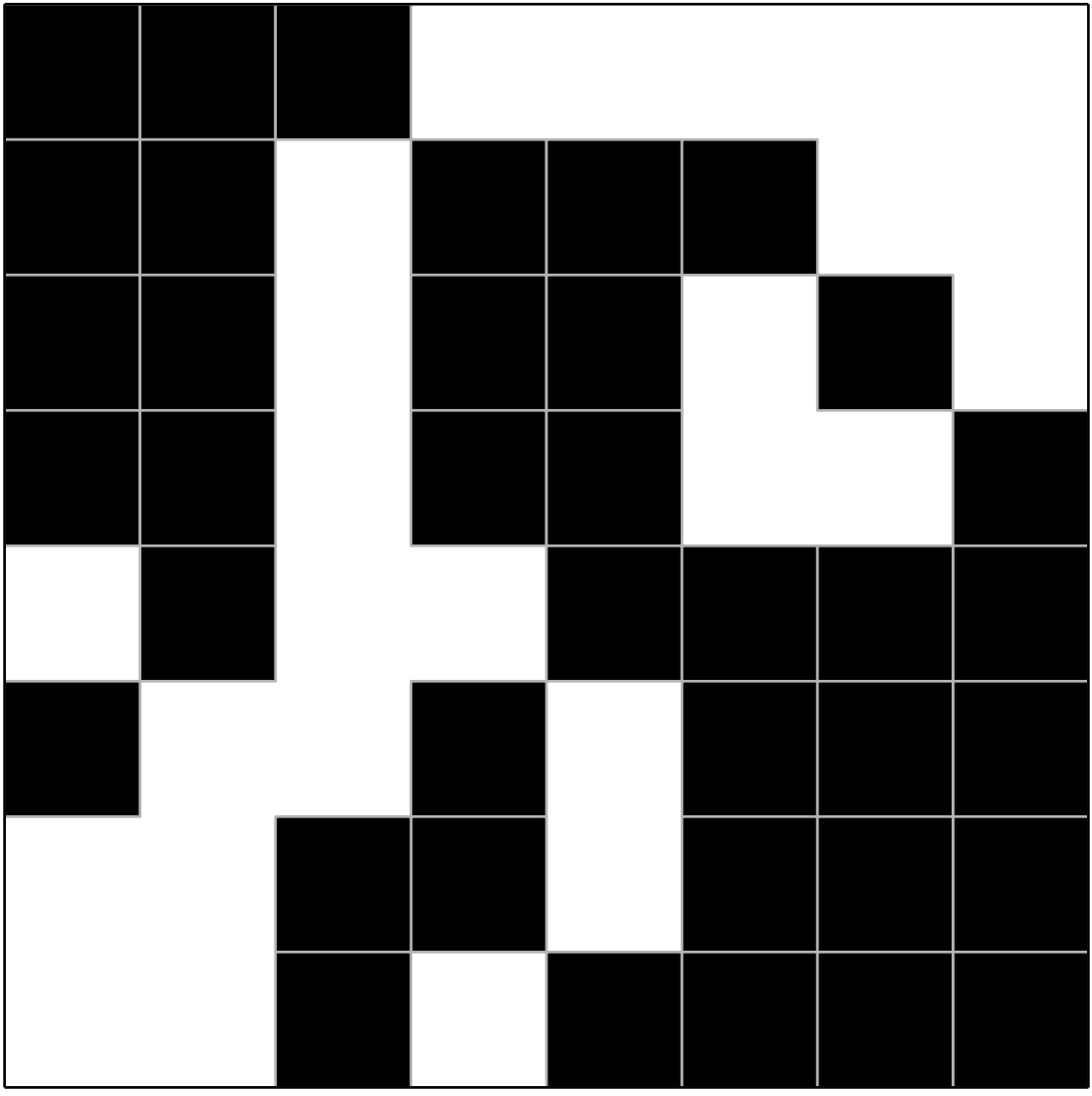
lib3_quadfor2-03, cost: 4, diff: 4, explored: 2, time: 0.00s



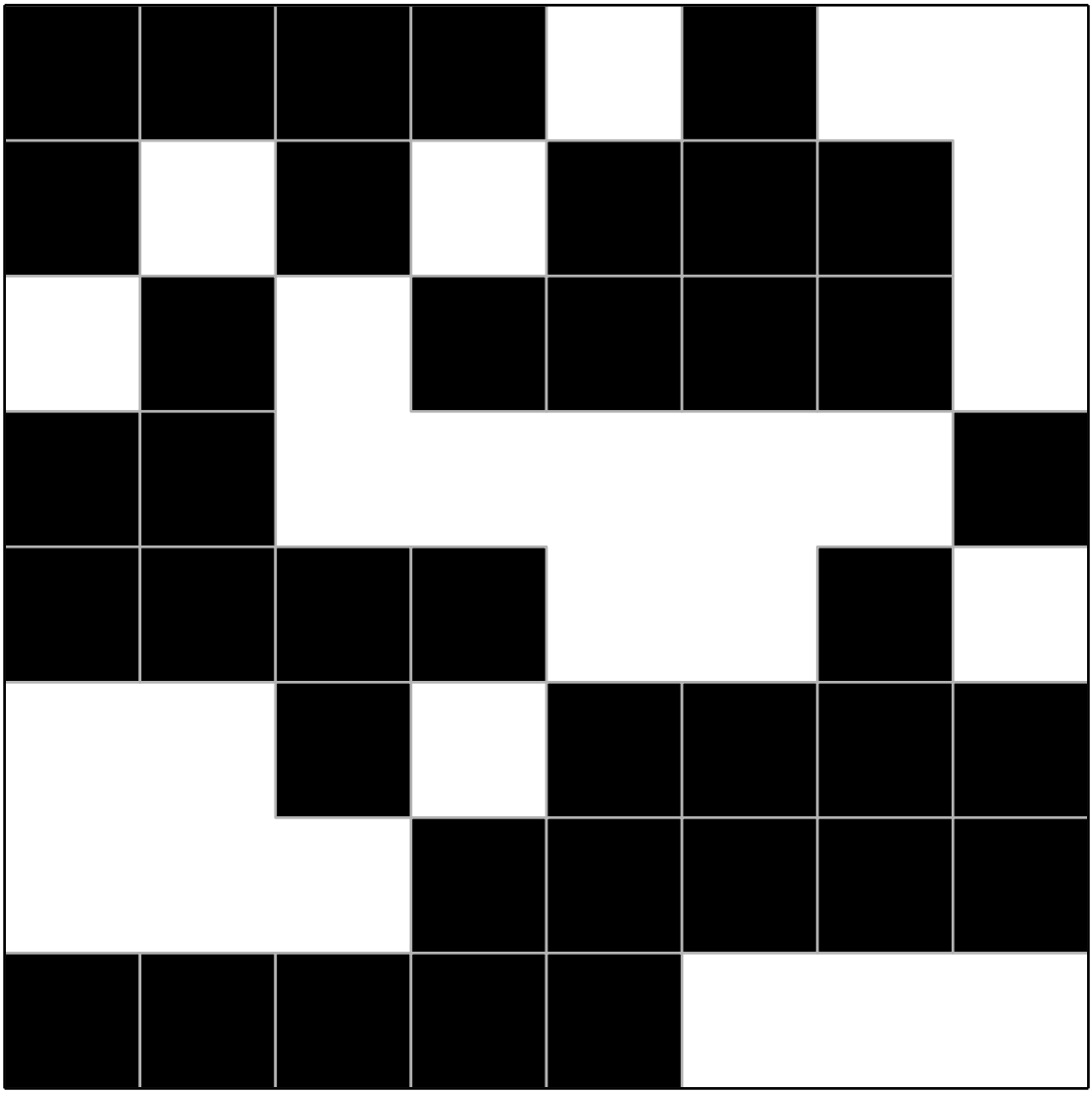
lib3_quadfor2-04 8x8 (38) con: 4, var: 4

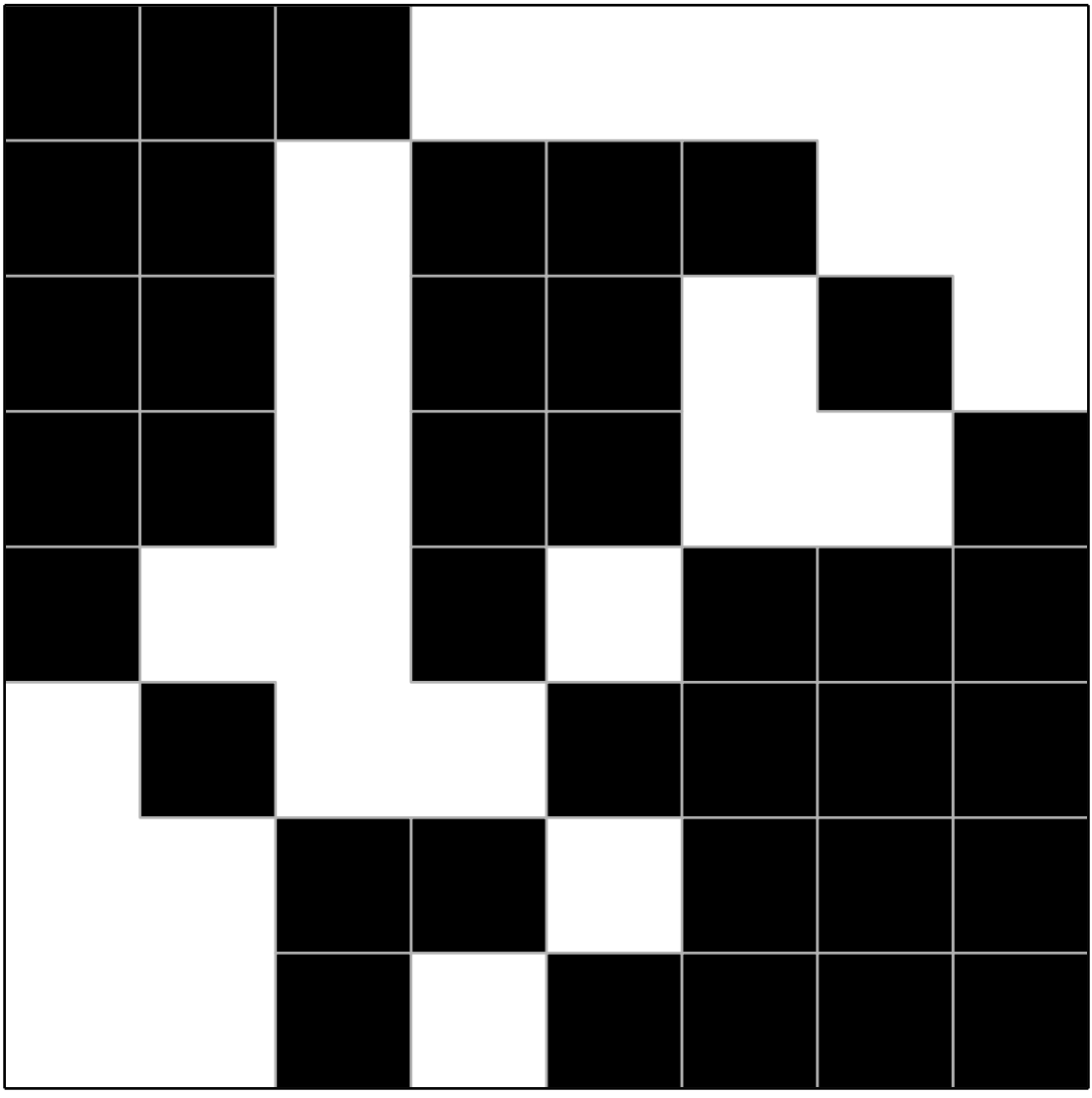


lib3_quadfor2-04, cost: 4, diff: 4, explored: 2, time: 0.00s

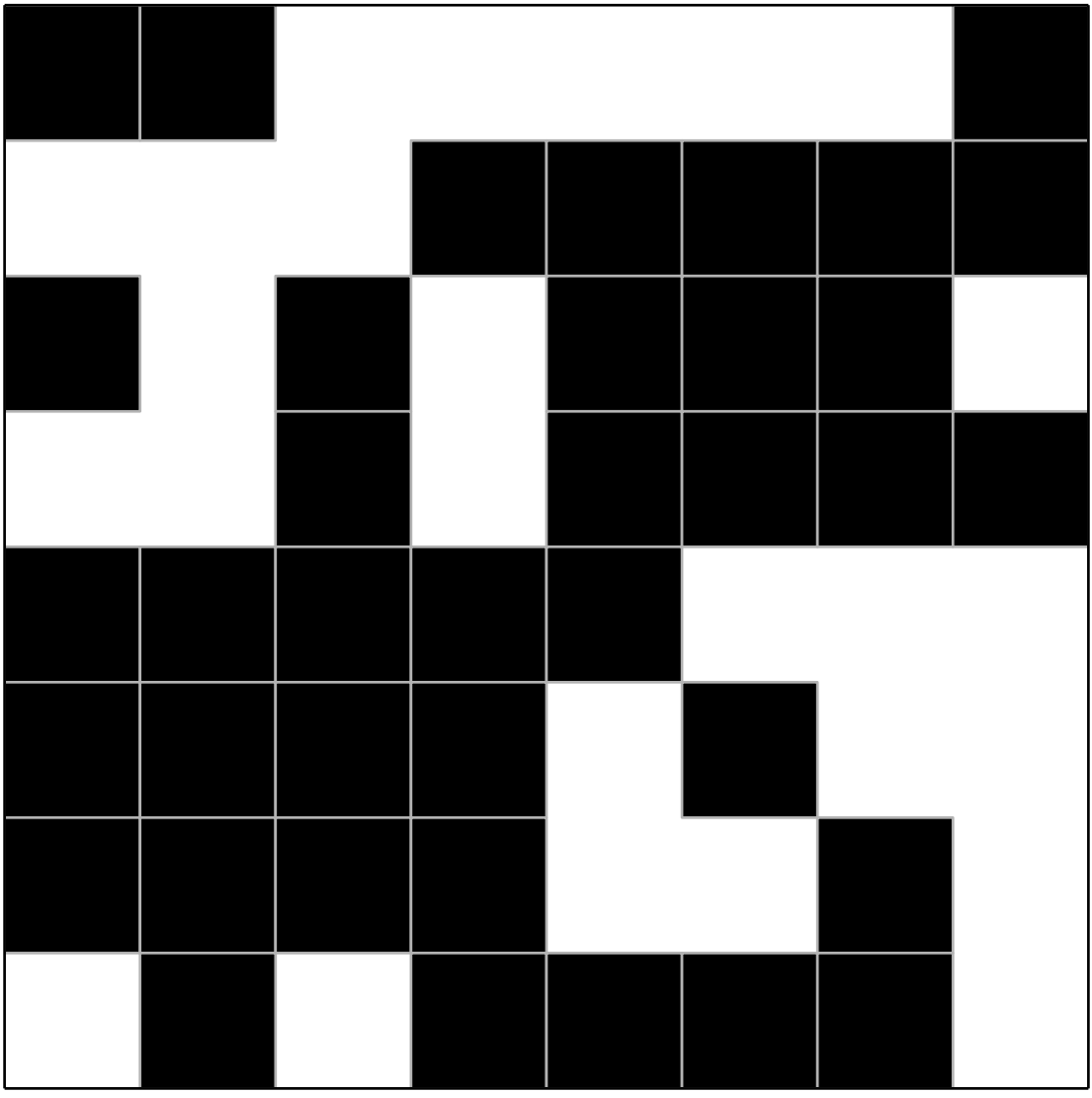


lib3_quadfor2-05 8x8 (38) con: 4, var: 4

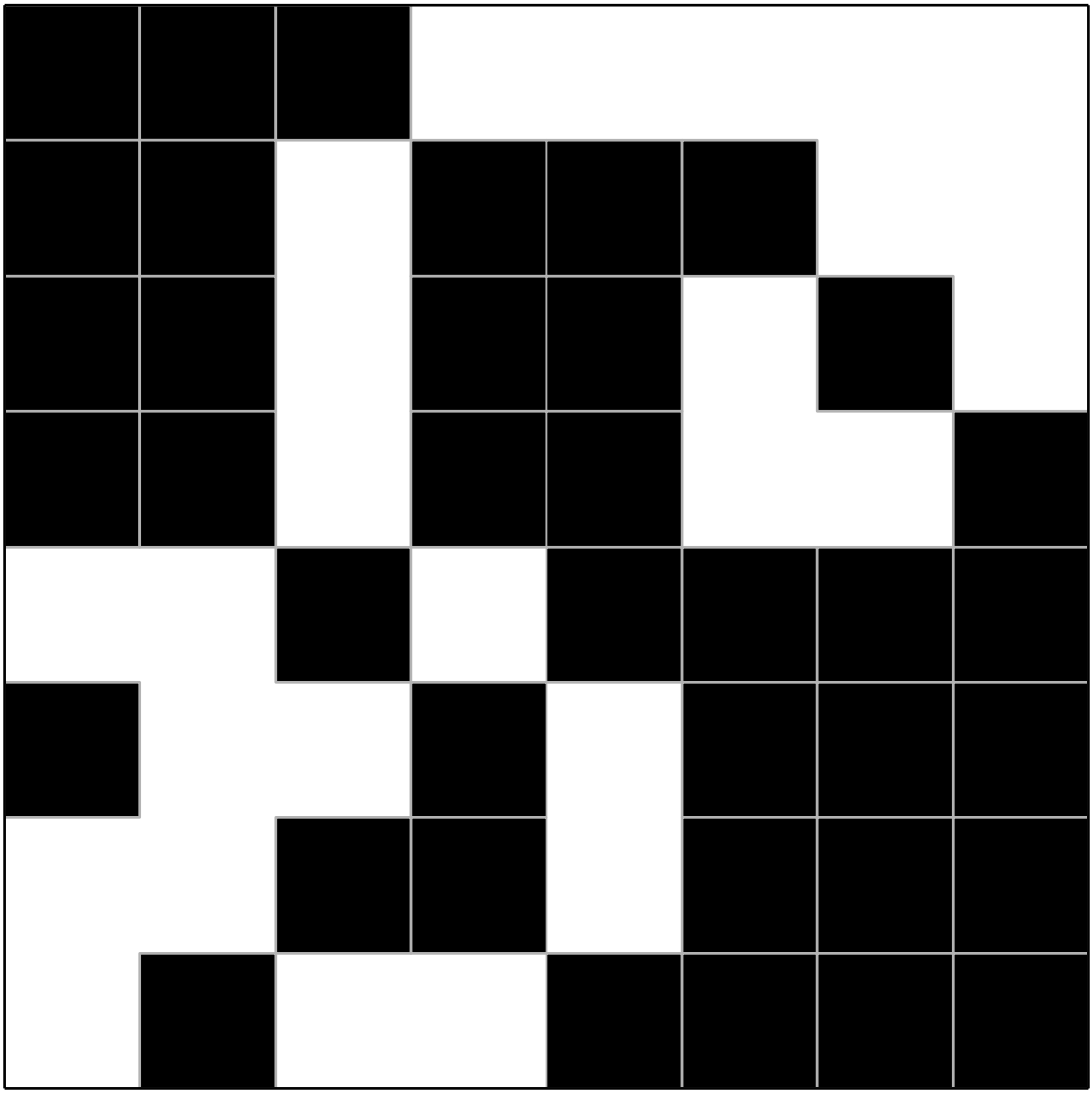



lib3_quadfor2-05, cost: 4, diff: 4, explored: 2, time: 0.00s

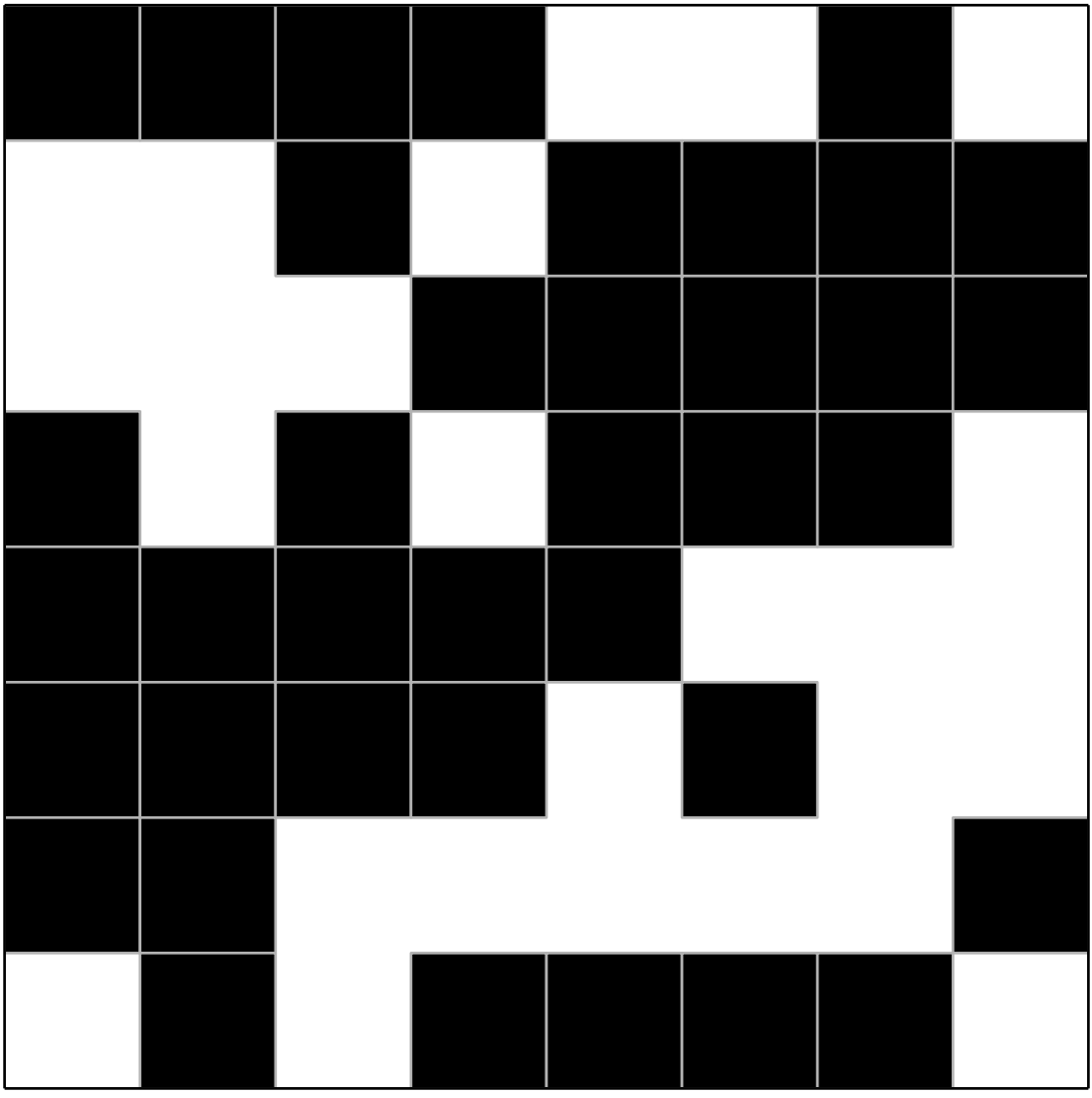
lib3_quadfor2-06 8x8 (38) con: 4, var: 4



lib3_quadfor2-06, cost: 4, diff: 4, explored: 2, time: 0.00s



lib3_quadfor2-07 8x8 (38) con: 4, var: 4



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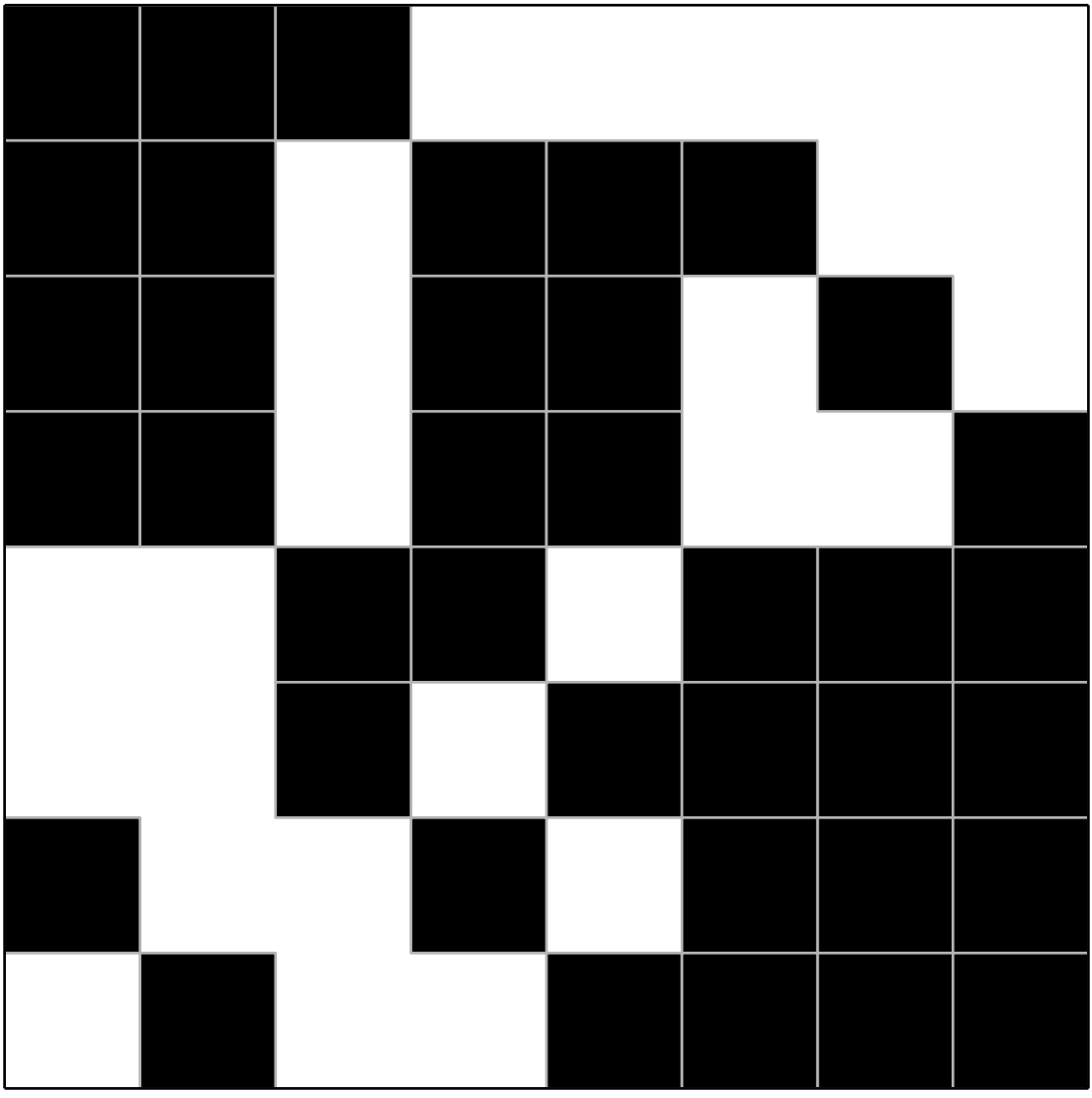
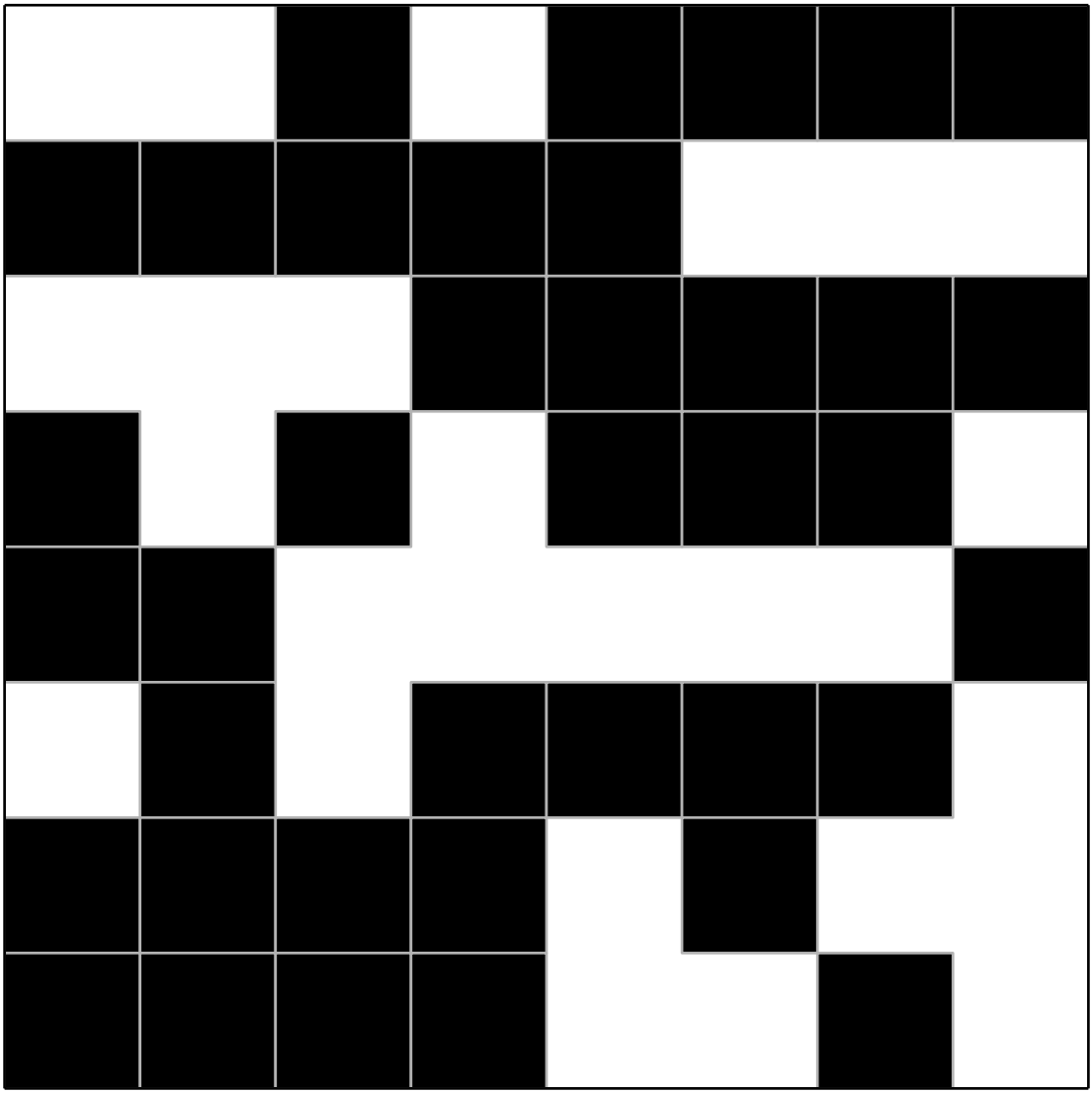


lib3_quadfor2-08 8x8 (38) con: 4, var: 4



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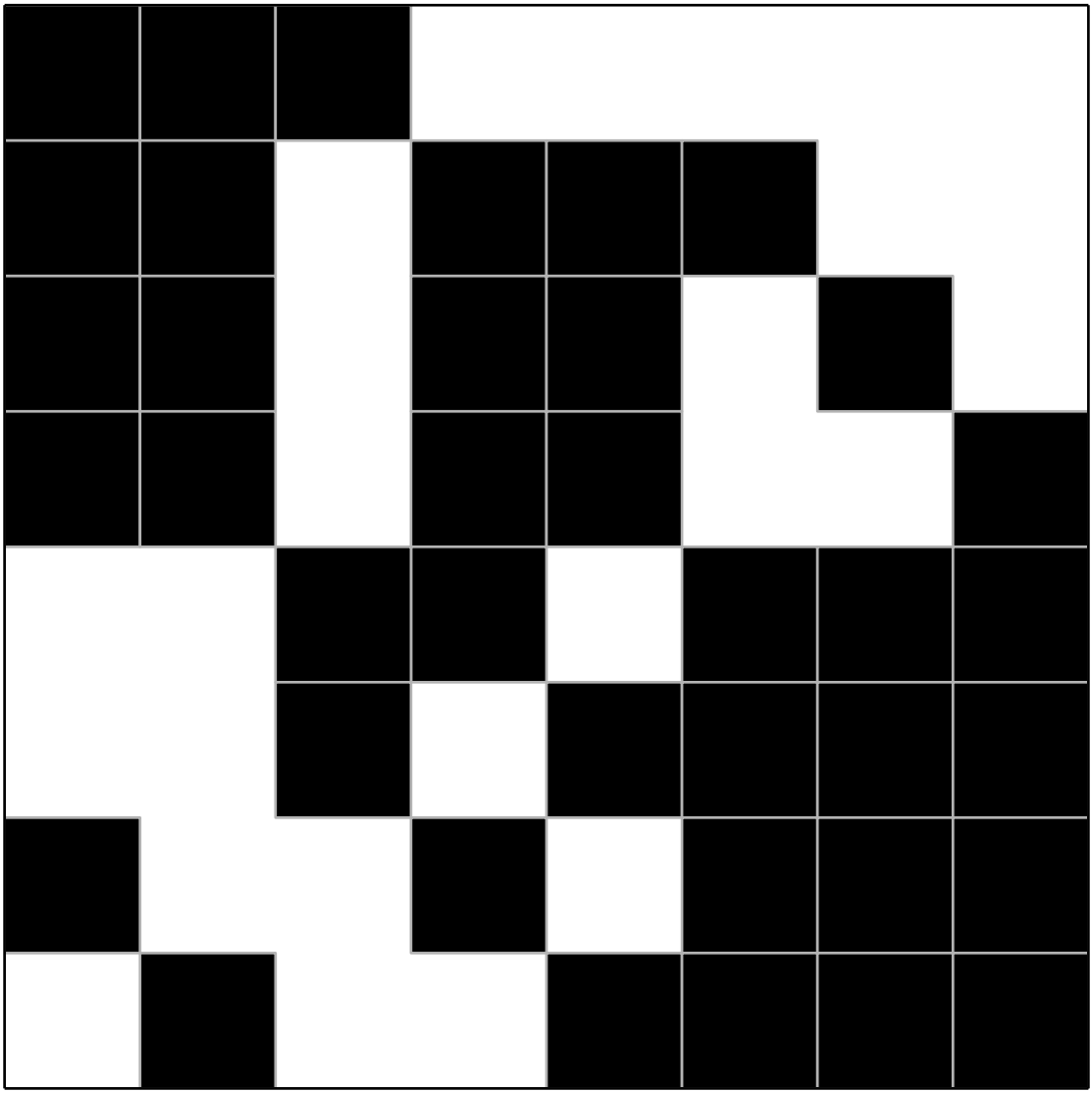
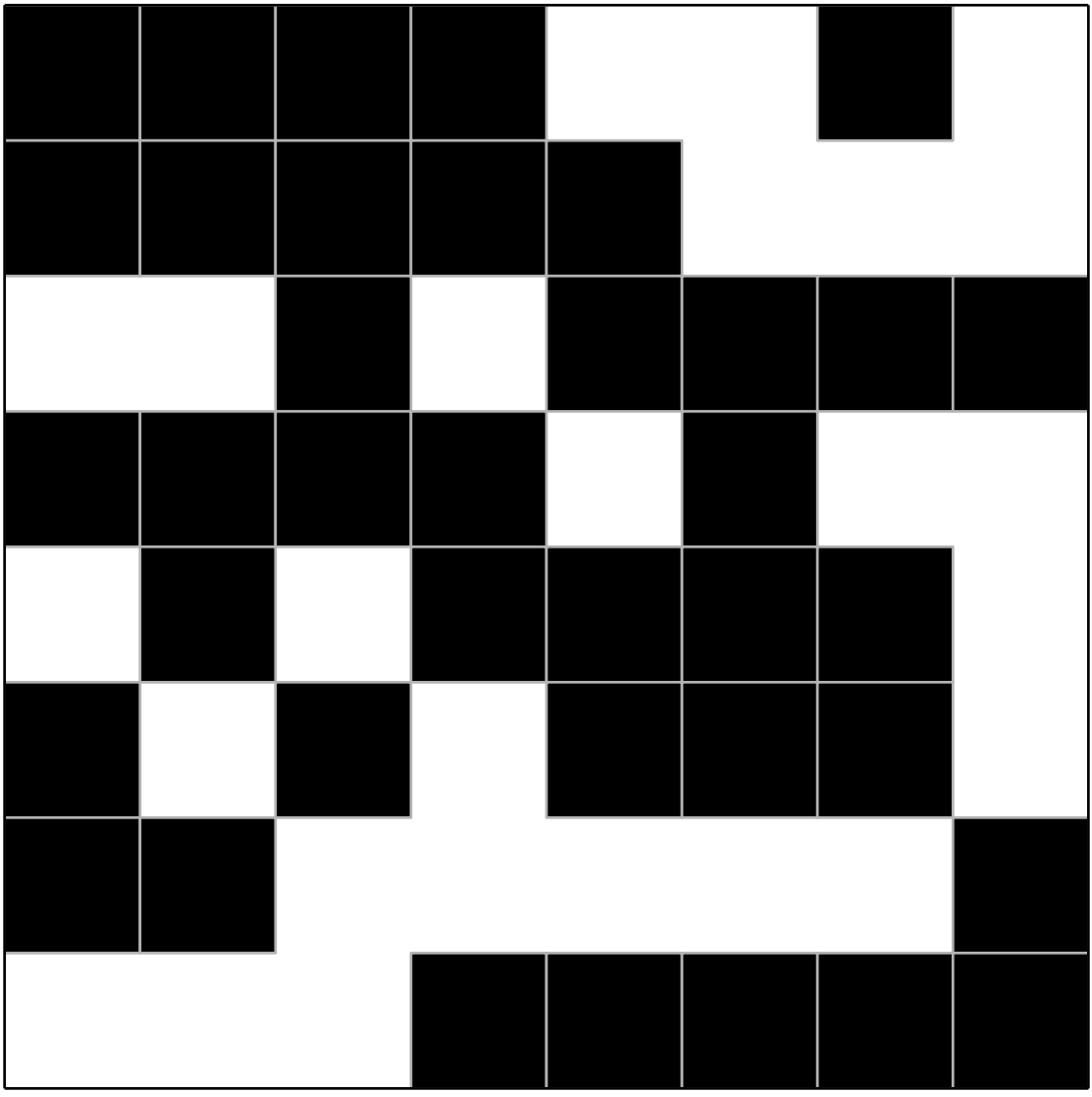


lib3_quadfor2-09 8x8 (38) con: 4, var: 4



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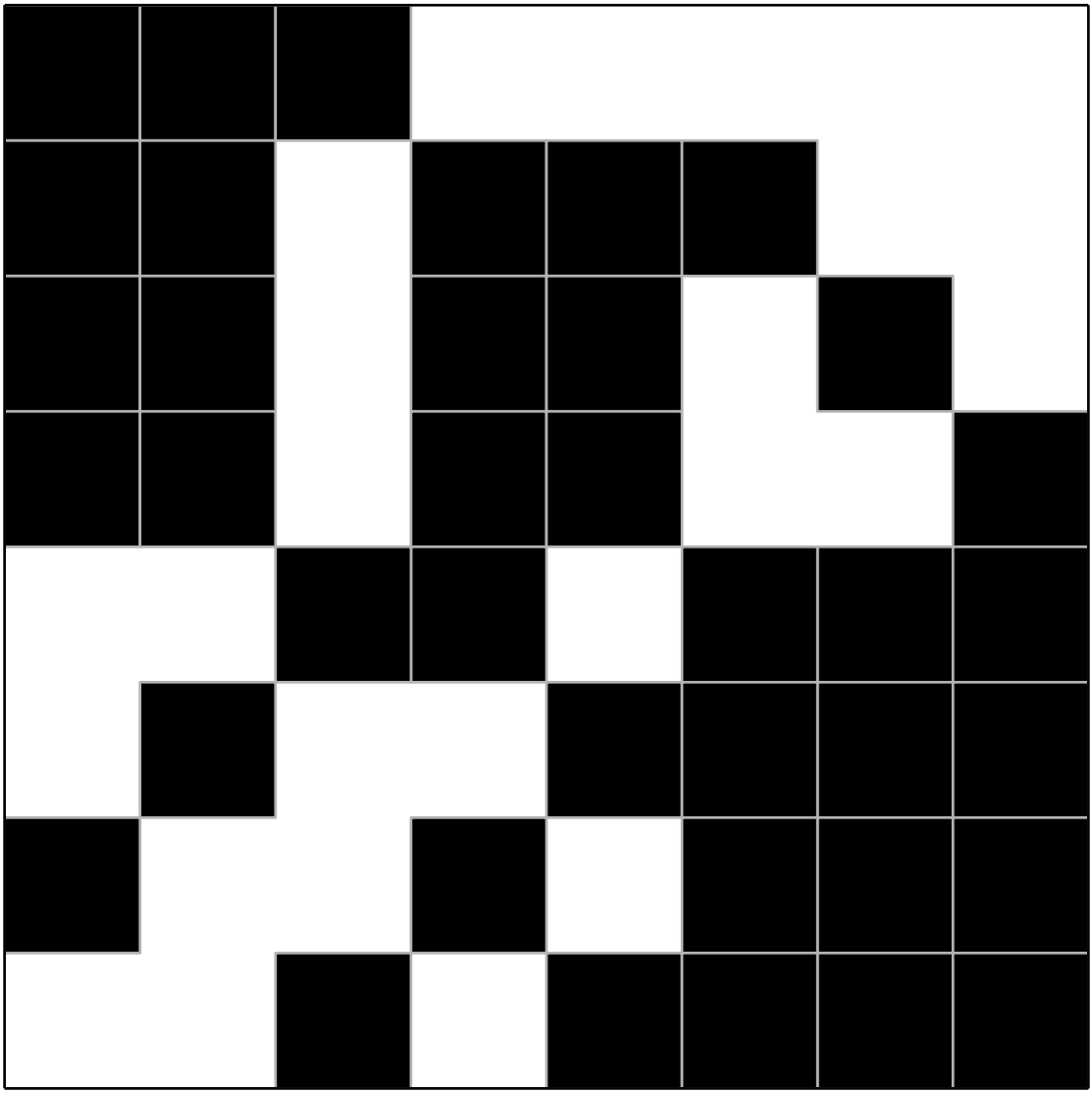
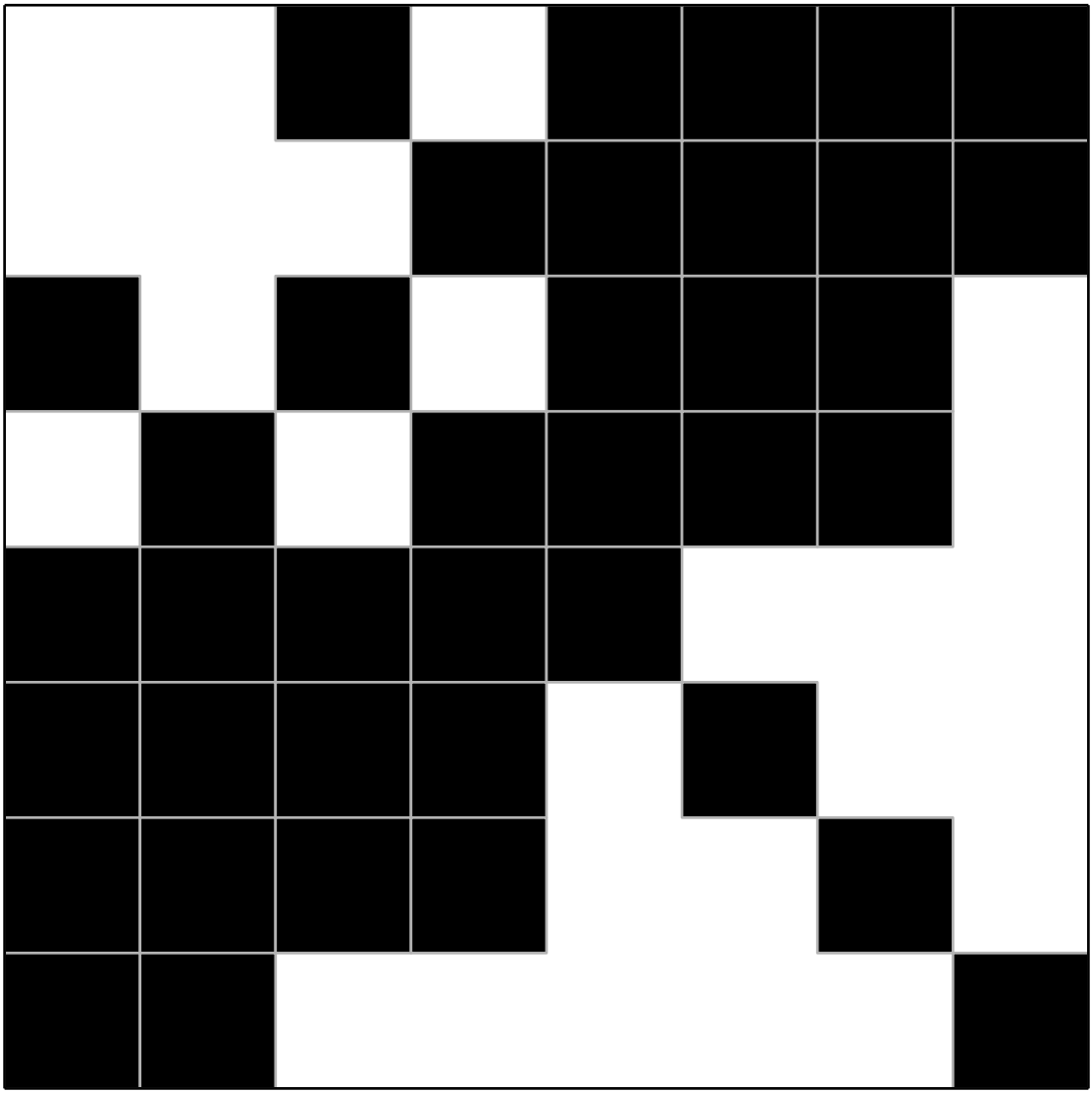


lib3_quadfor2-IN 8x8 (38) con: 4, var: 4



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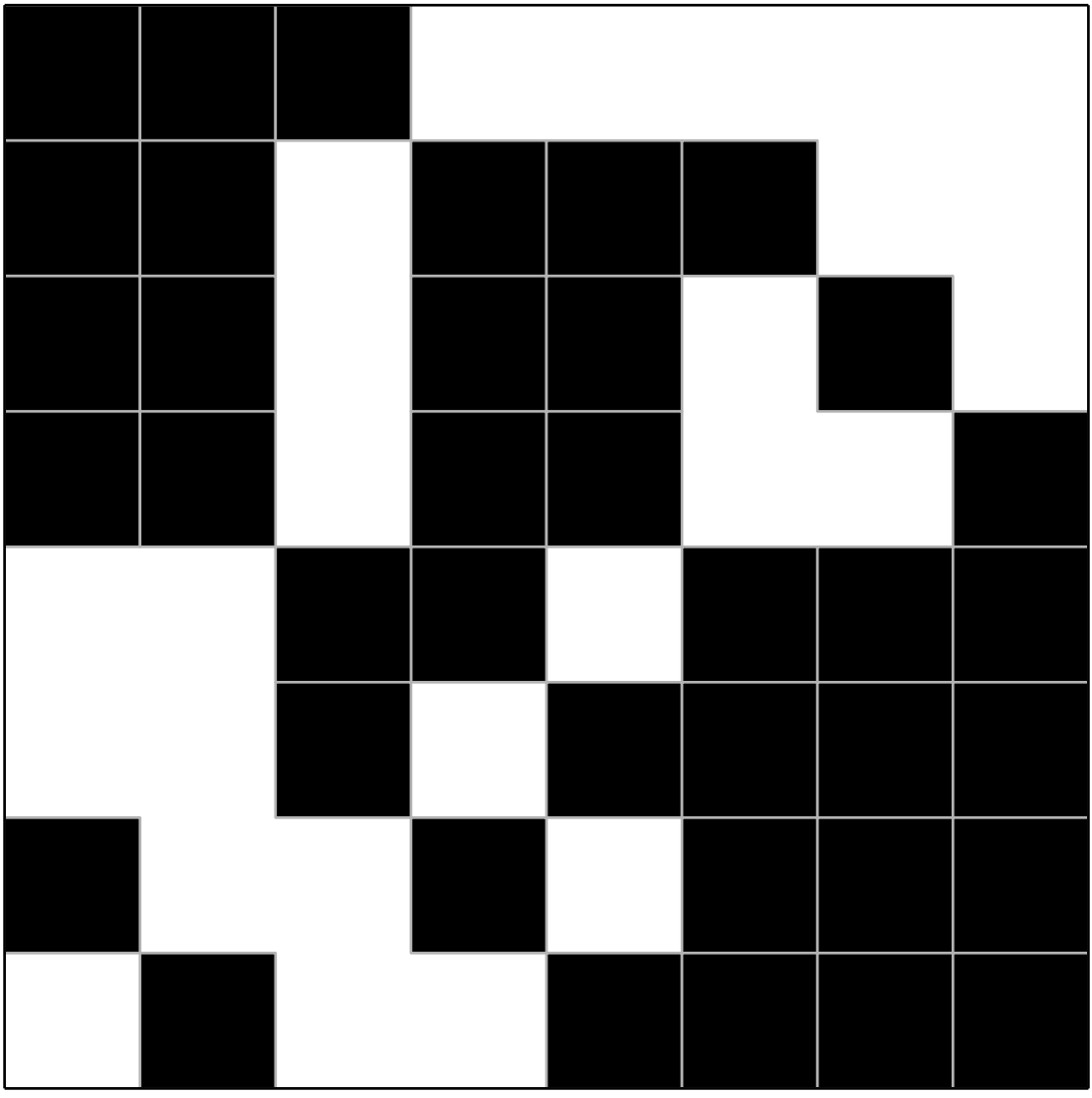
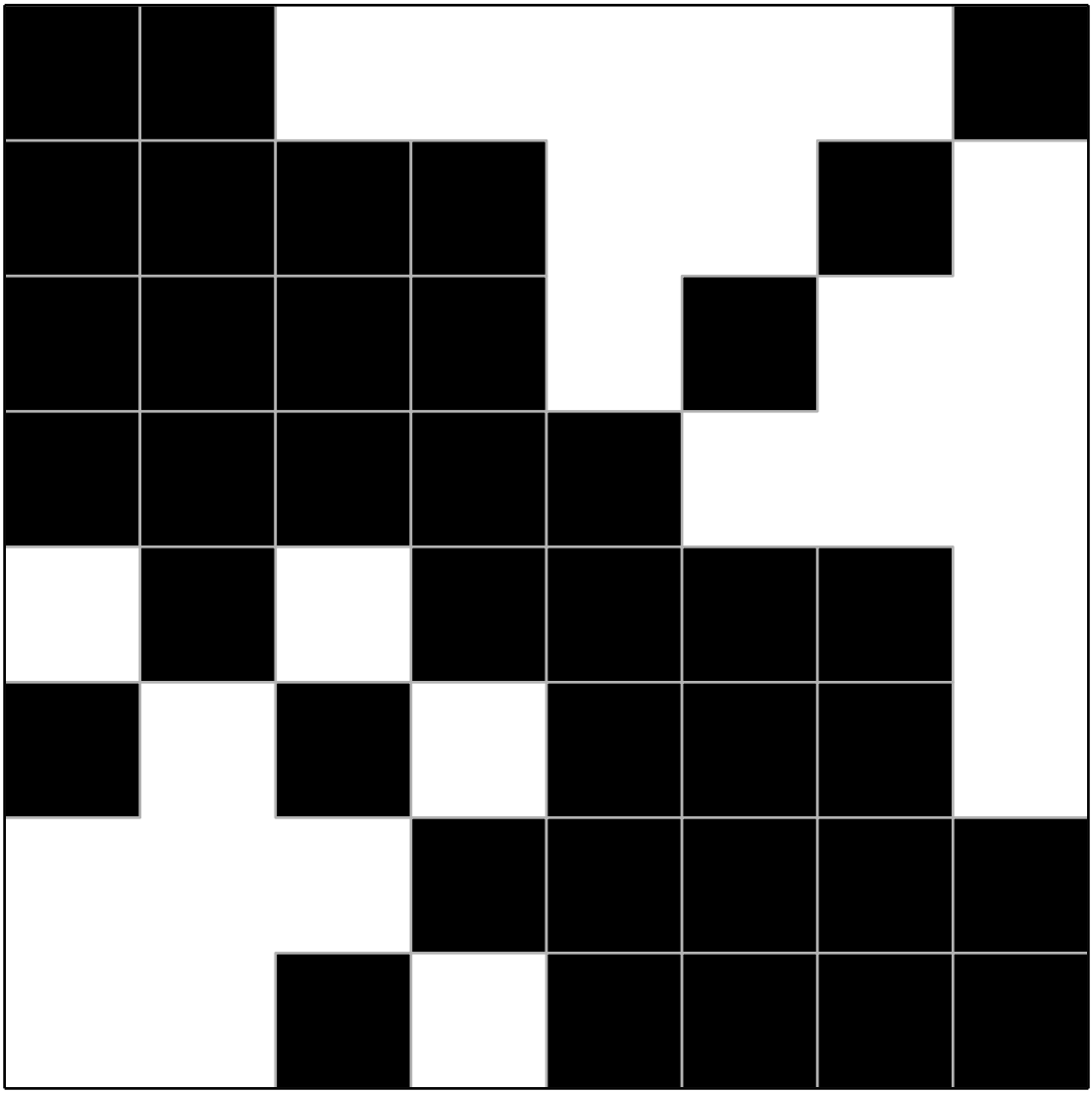


lib3_quadfor2-RE 8x8 (38) con: 4, var: 4



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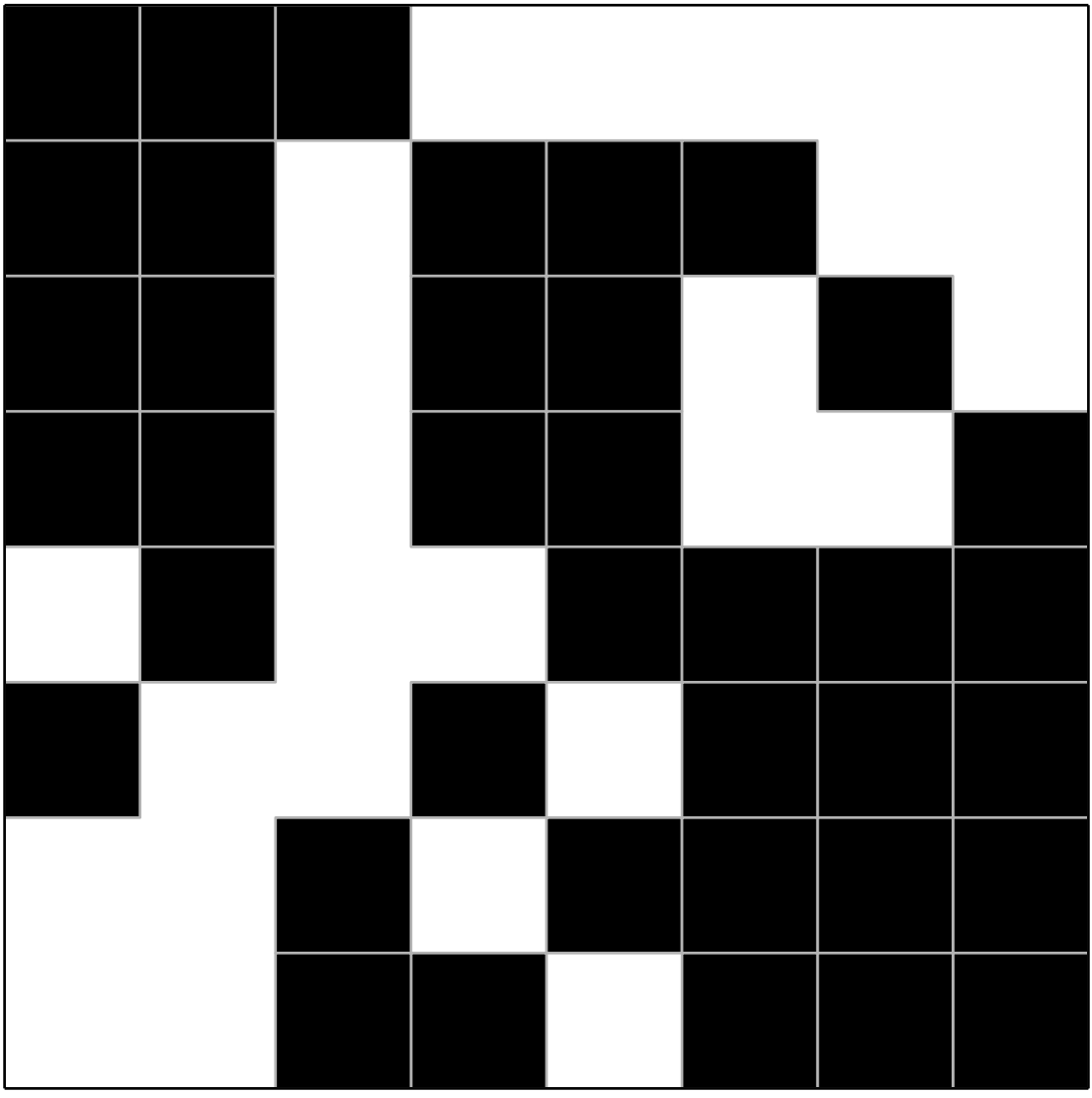
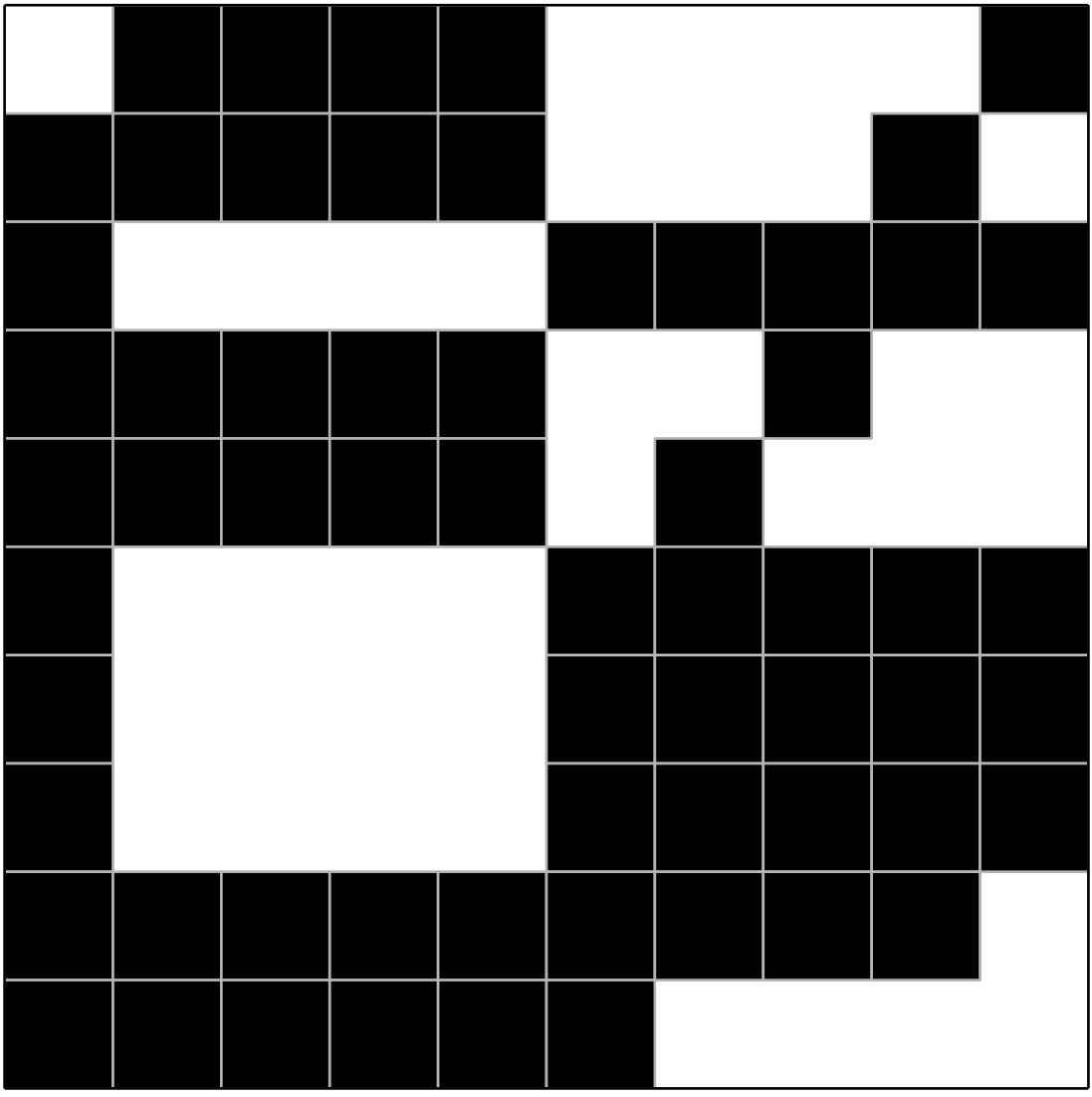
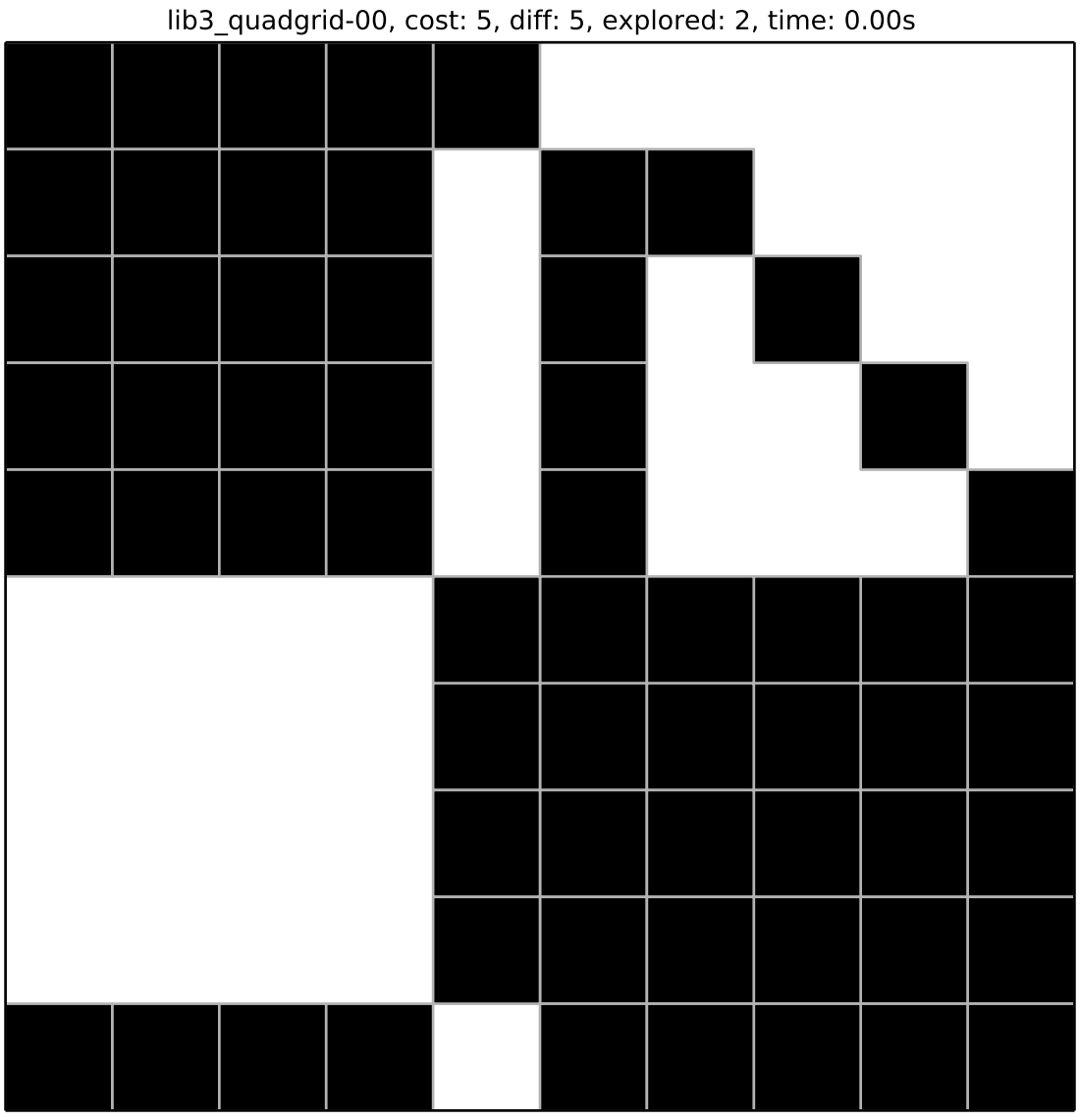


lib3_quadgrid-00 10x10 (62) con: 5, var: 5

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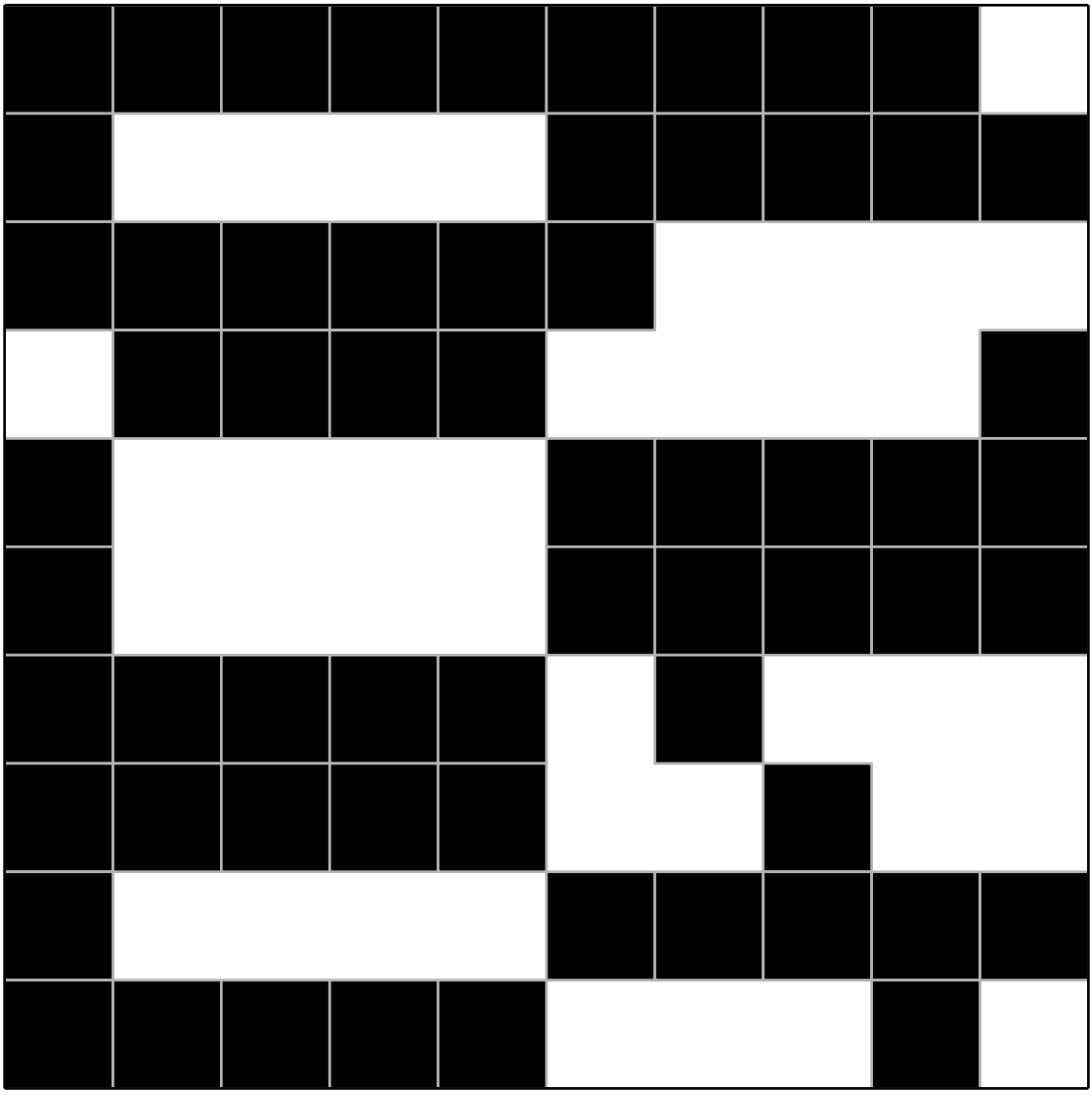
lib3_quadgrid-01 10x10 (62) con: 5, var: 5



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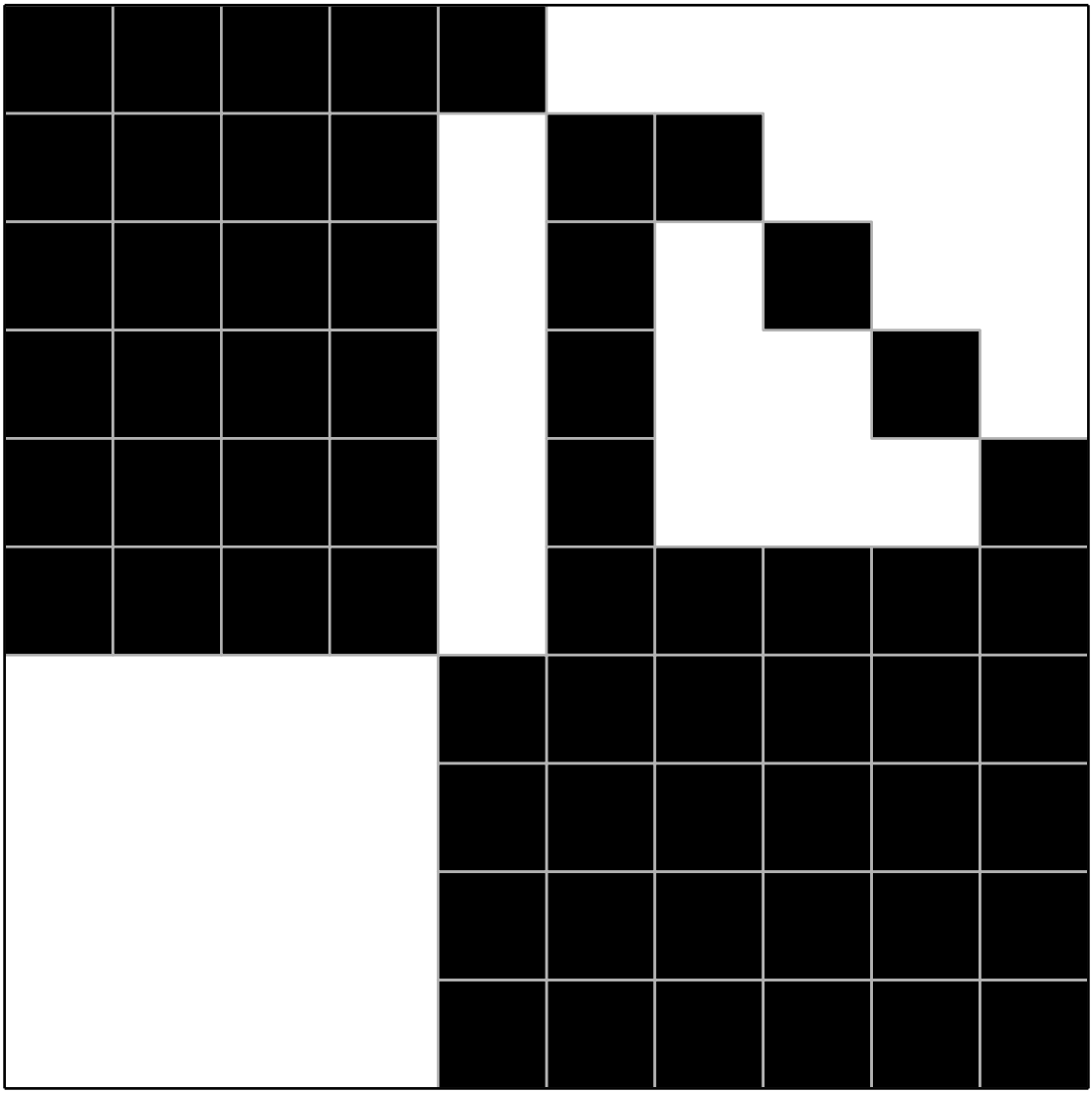
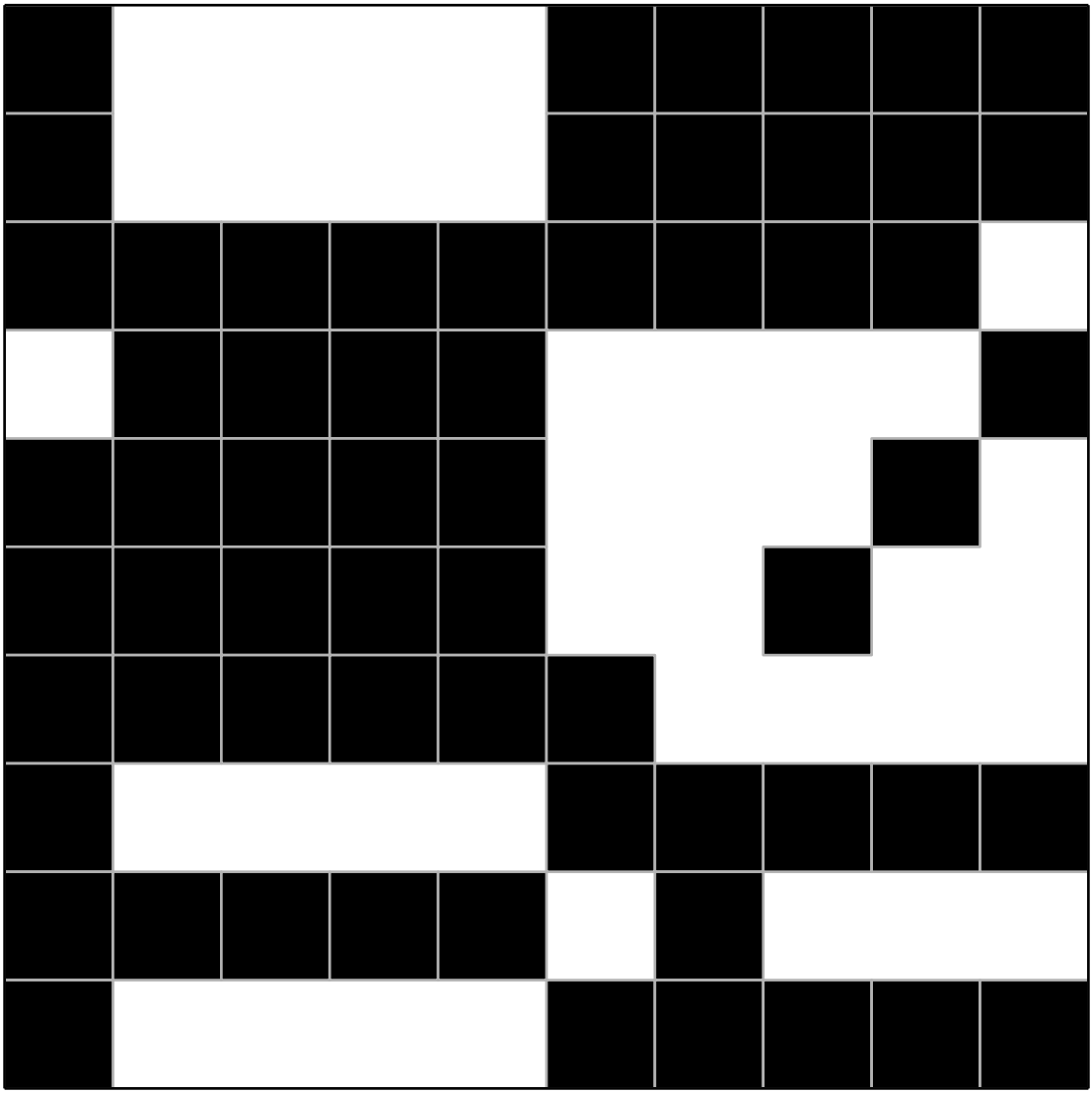


lib3_quadgrid-02 10x10 (62) con: 5, var: 5



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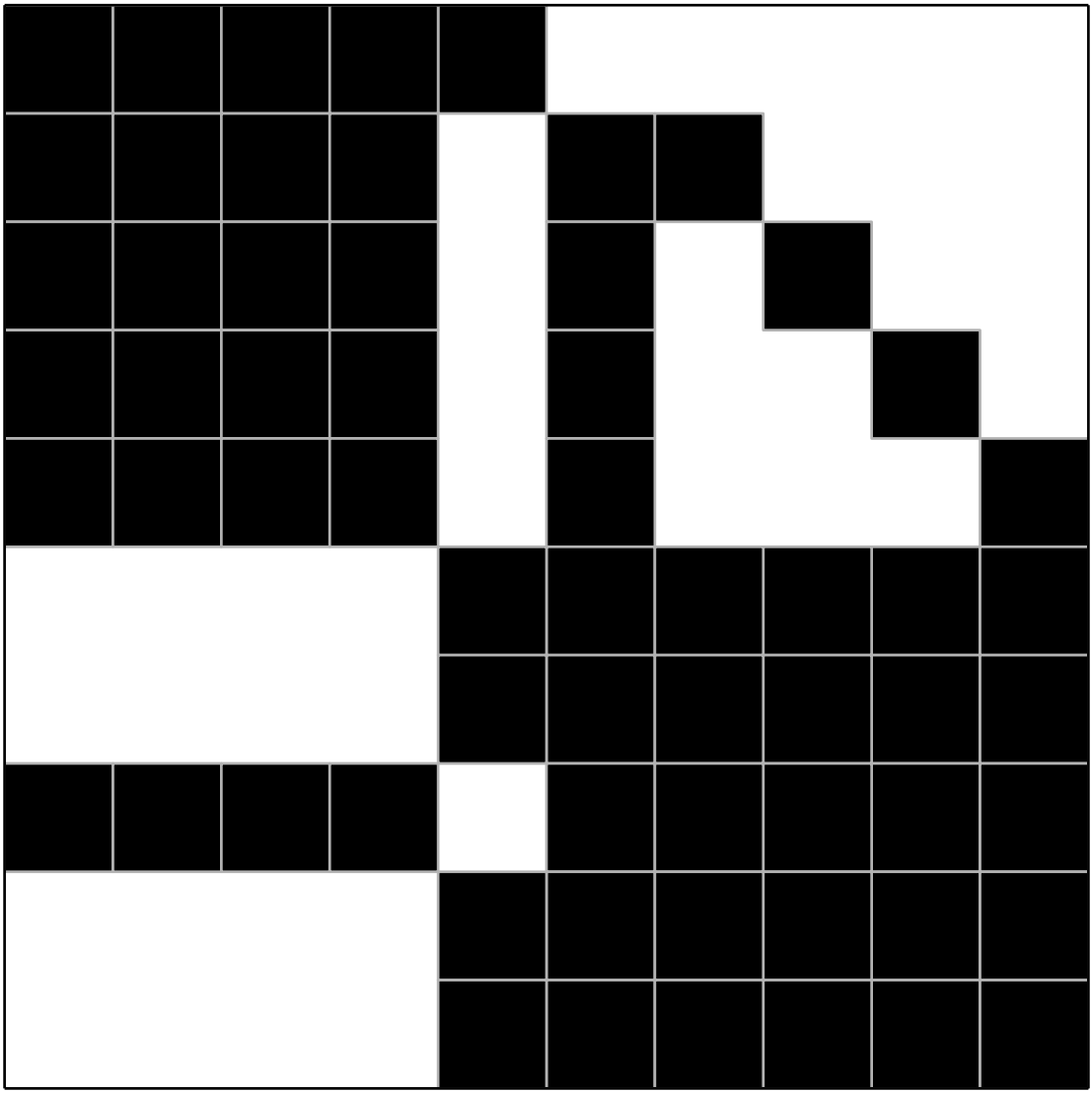
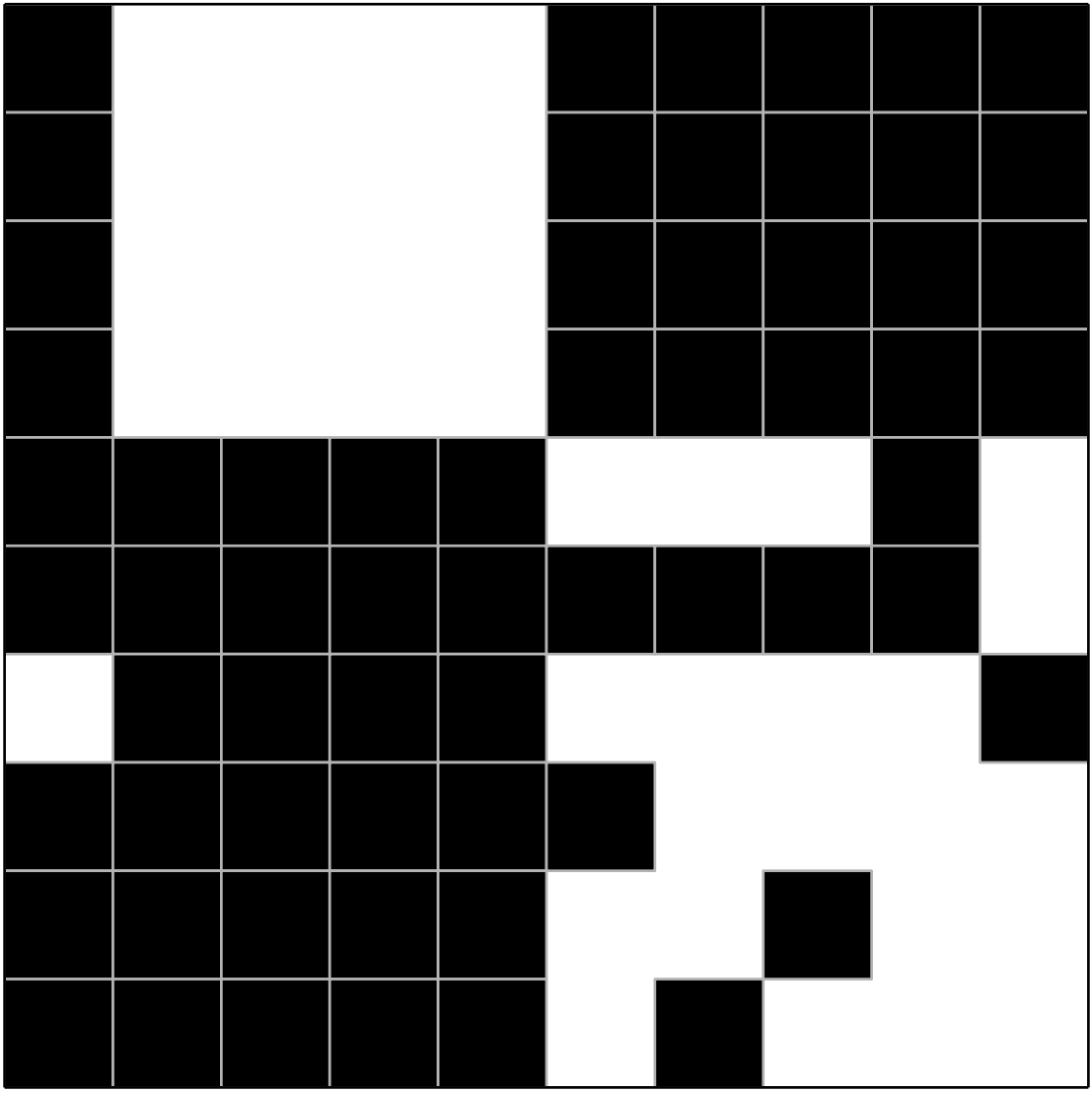
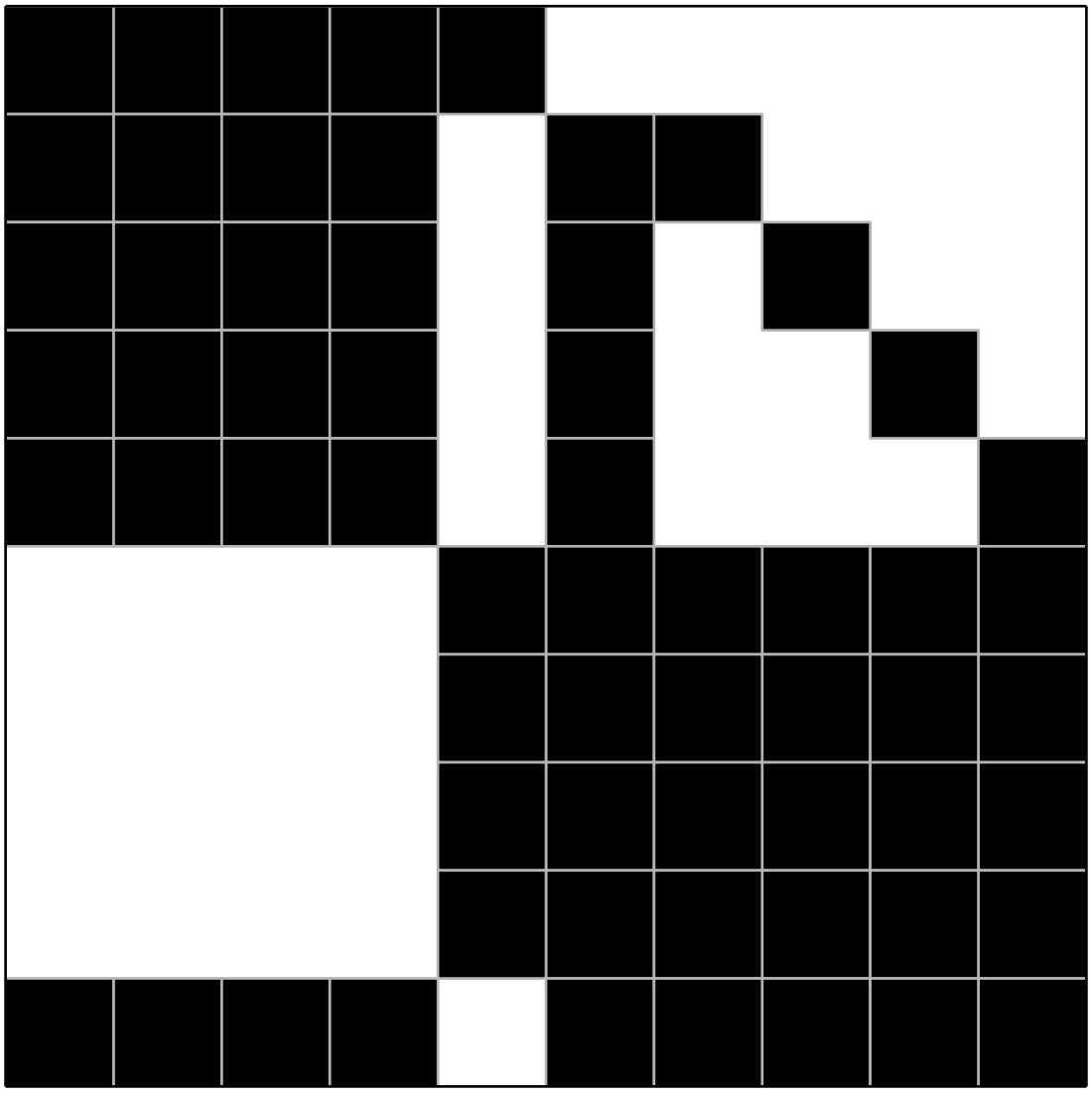


lib3_quadgrid-03 10x10 (62) con: 5, var: 5

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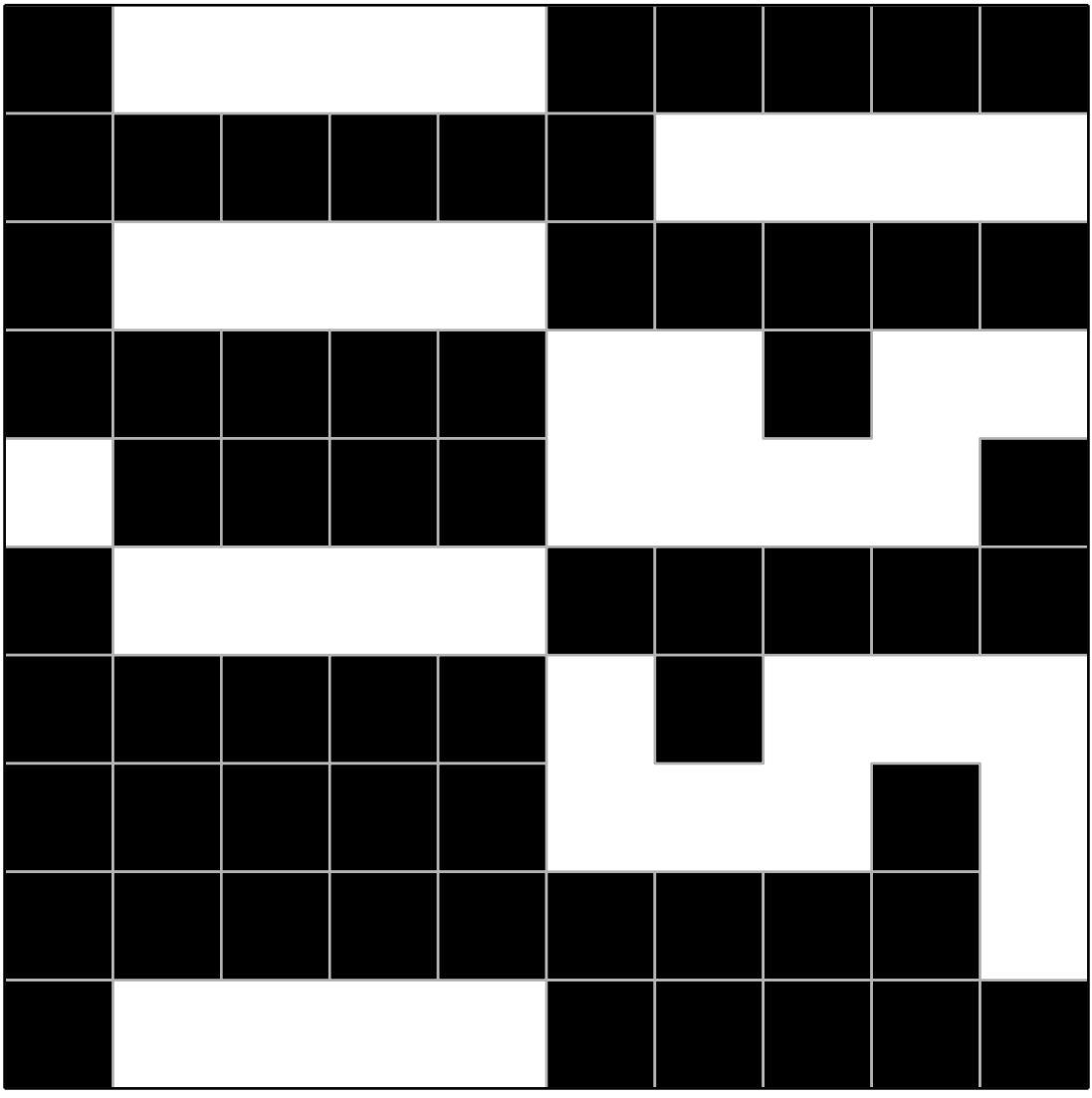
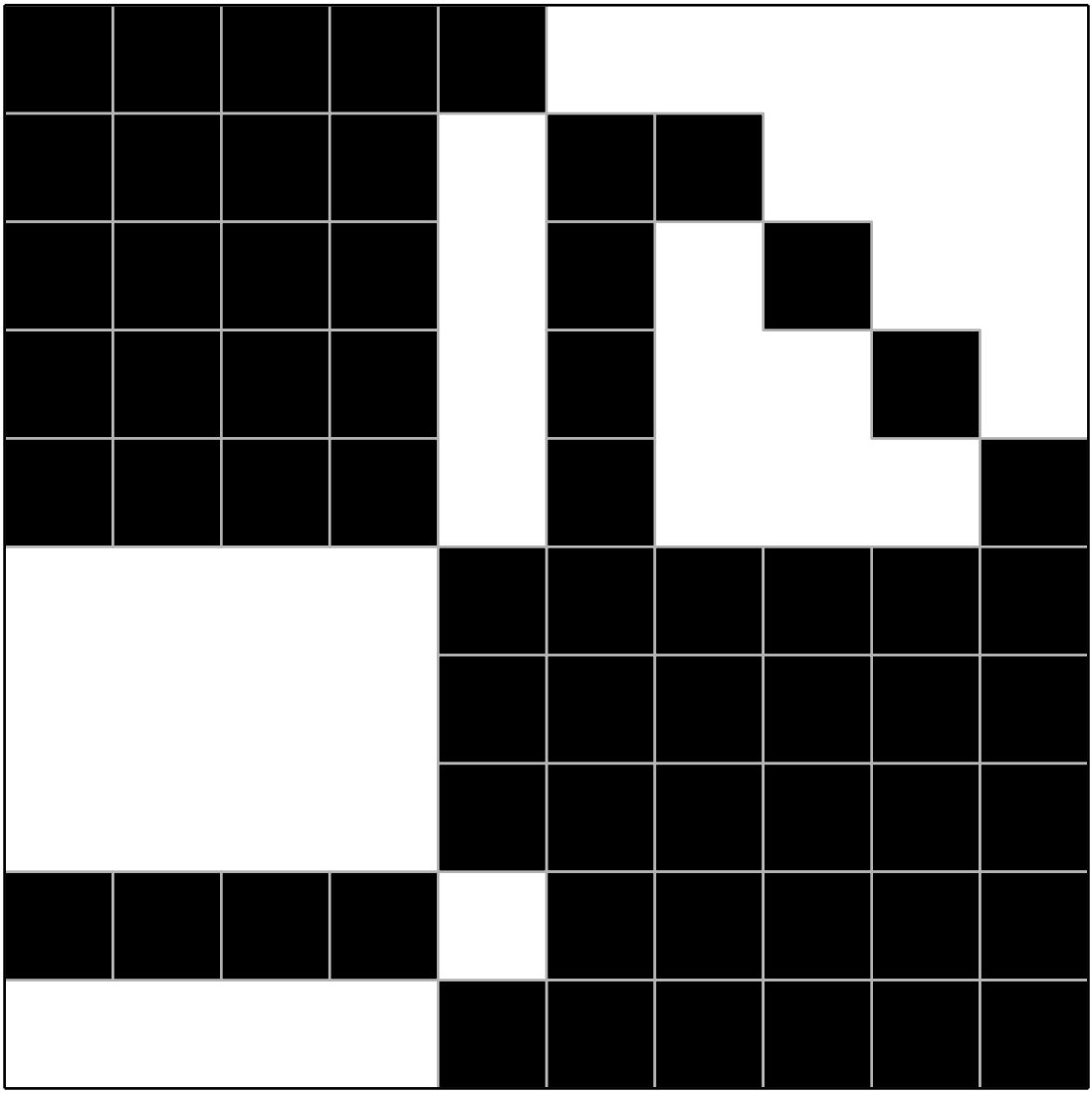
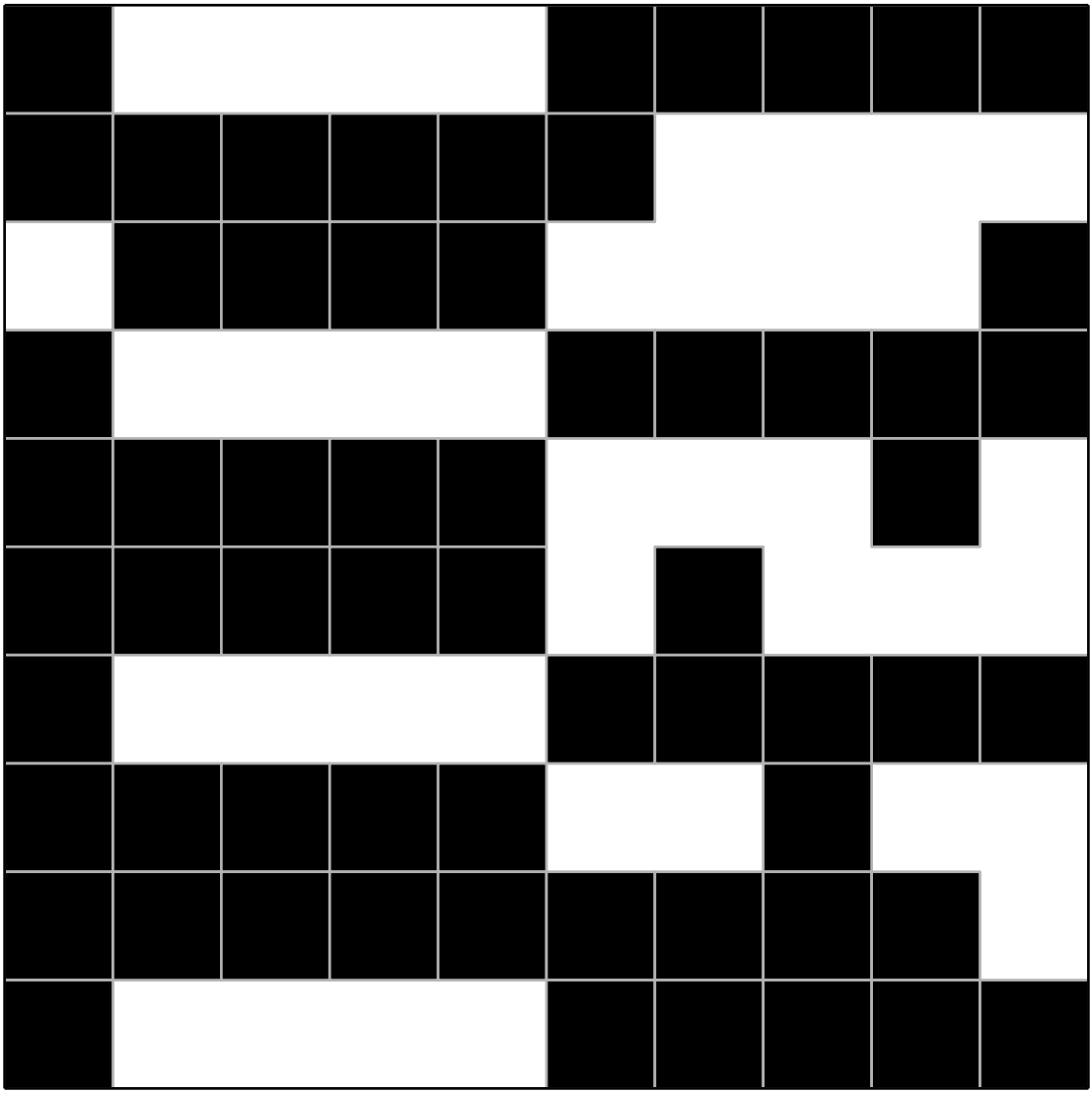
lib3_quadgrid-04 10x10 (62) con: 5, var: 5



lib3_quadgrid-04, cost: 5, diff: 5, explored: 2, time: 0.00s



lib3_quadgrid-05 10x10 (62) con: 5, var: 5



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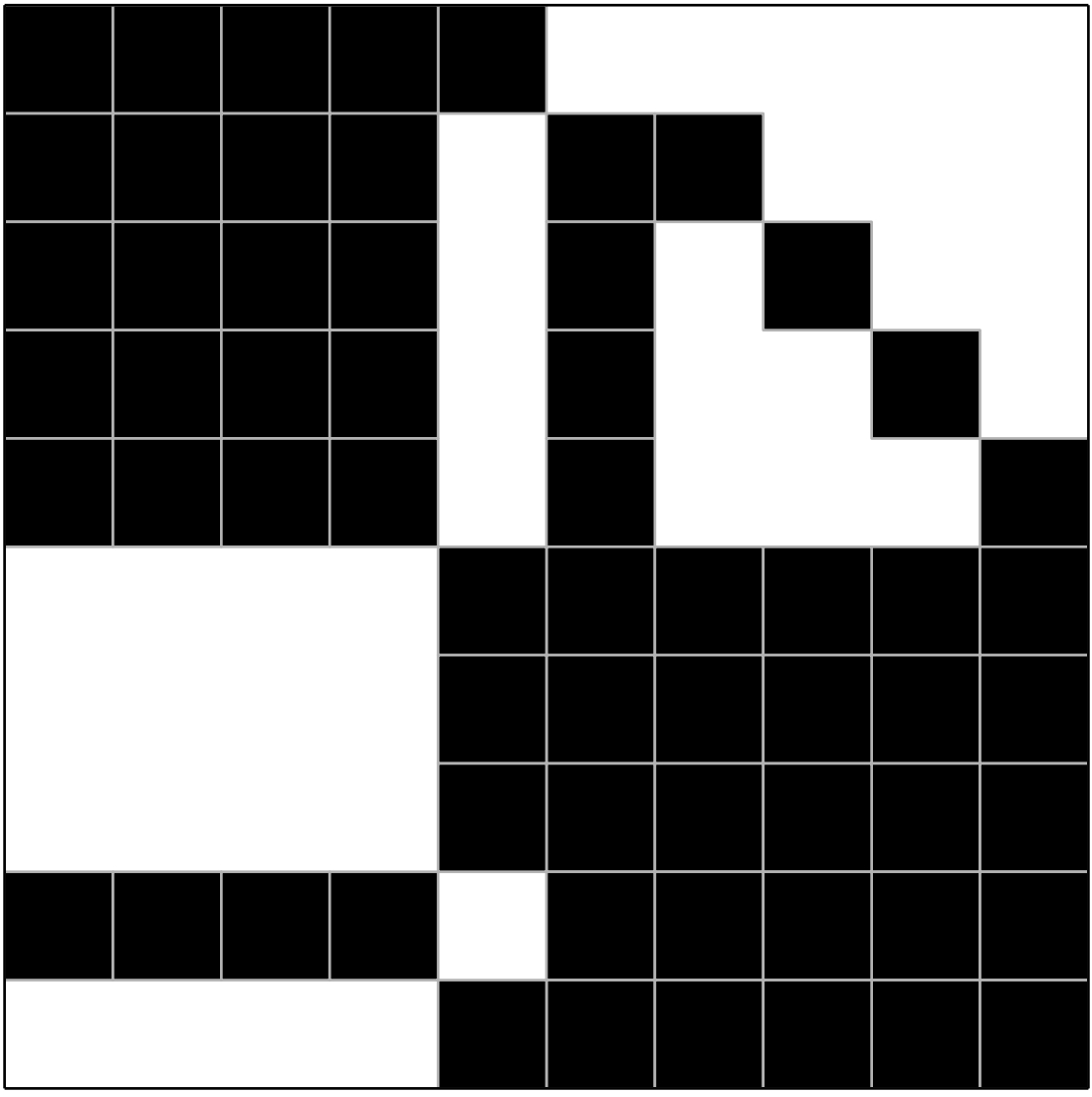
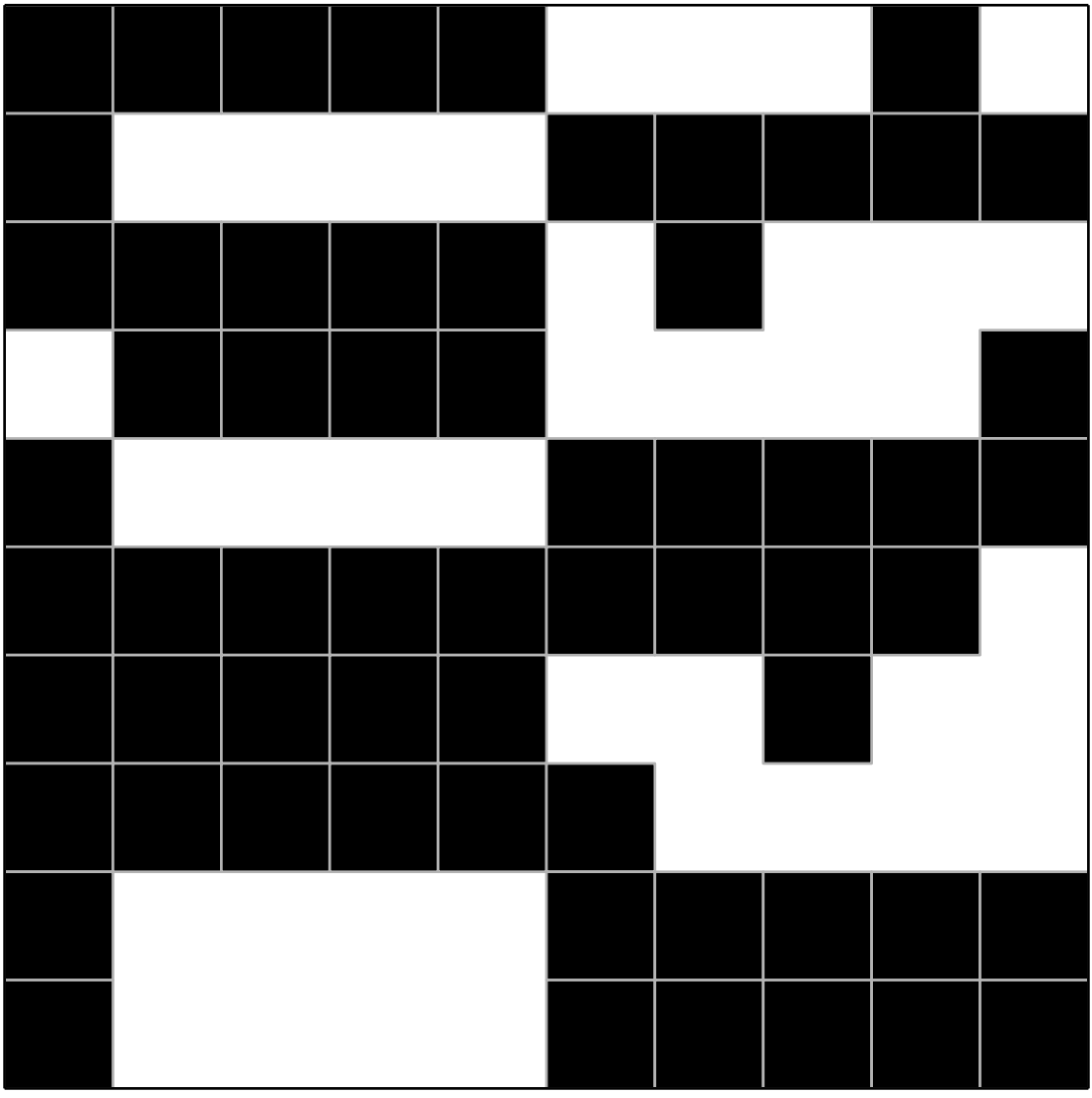
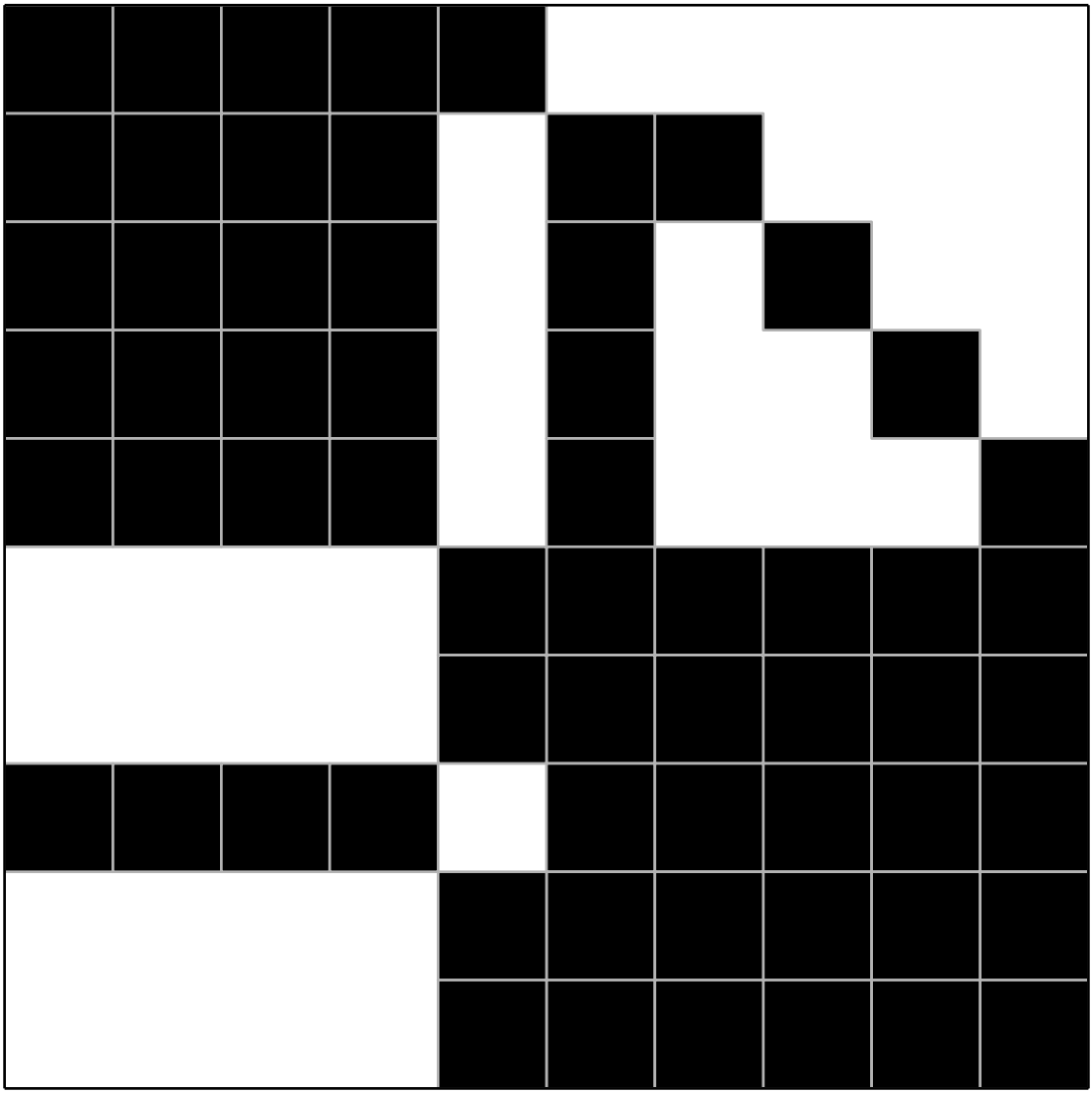


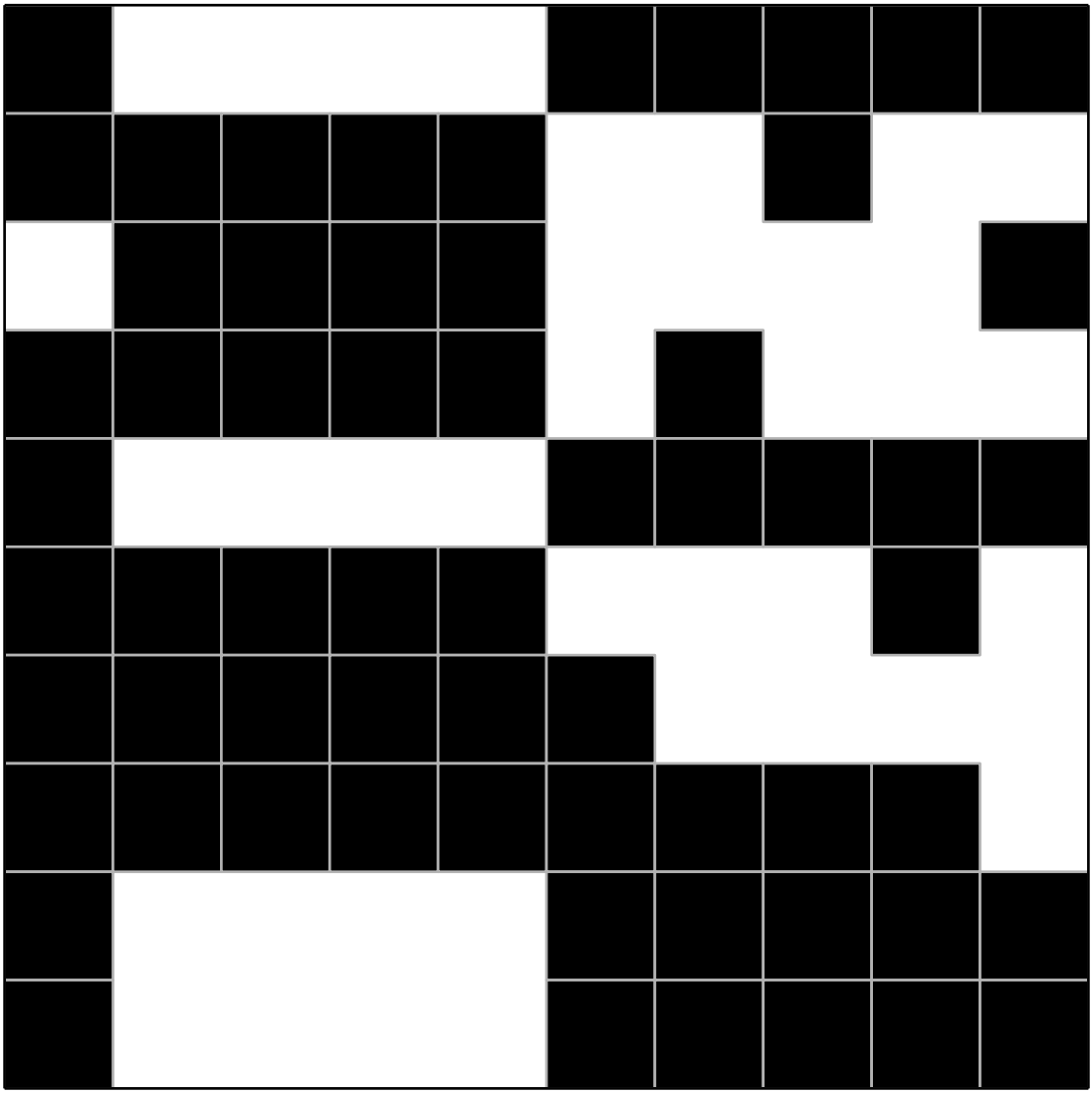
lib3_quadgrid-06 10x10 (62) con: 5, var: 5



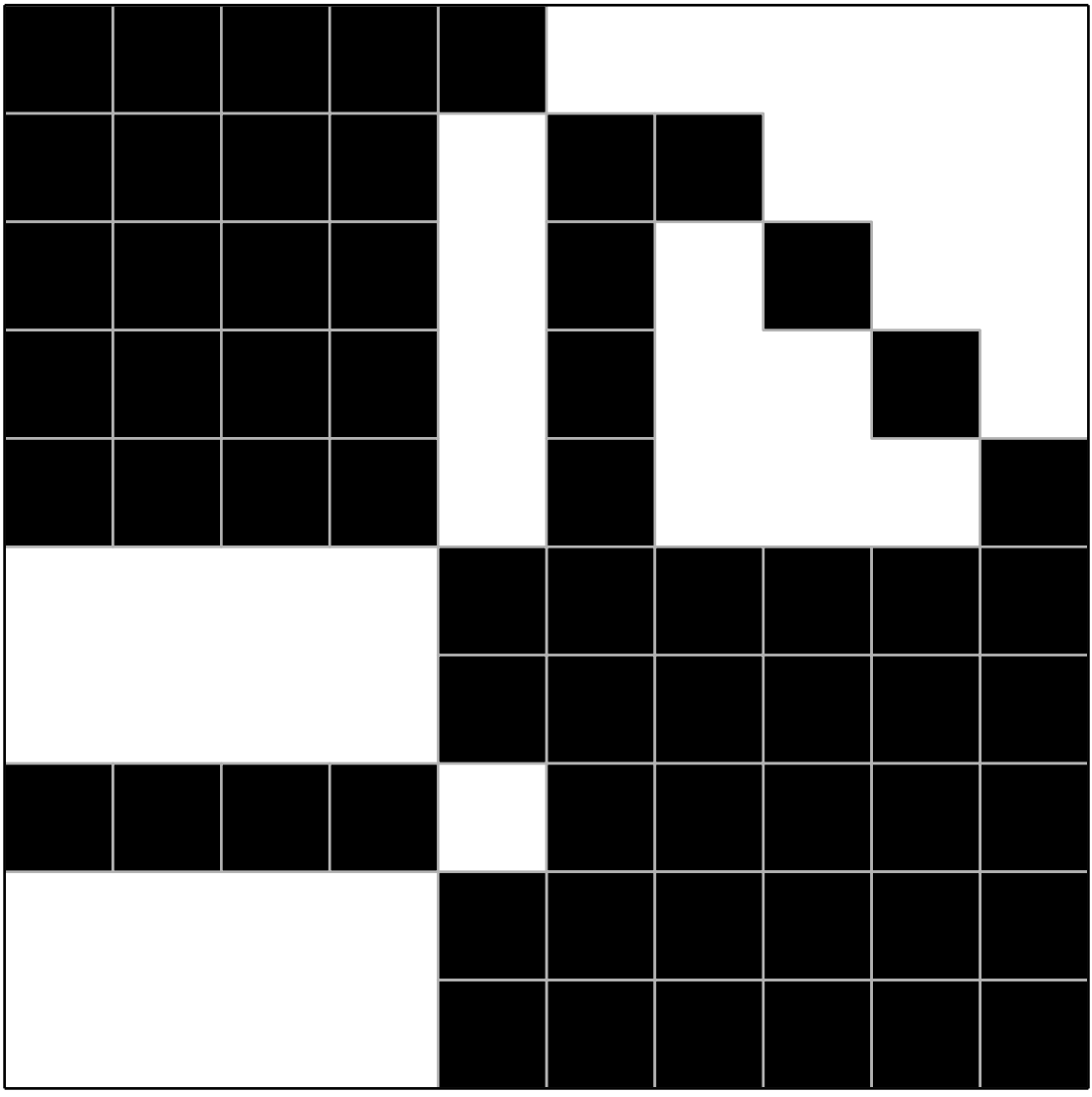
lib3_quadgrid-06, cost: 5, diff: 5, explored: 2, time: 0.00s



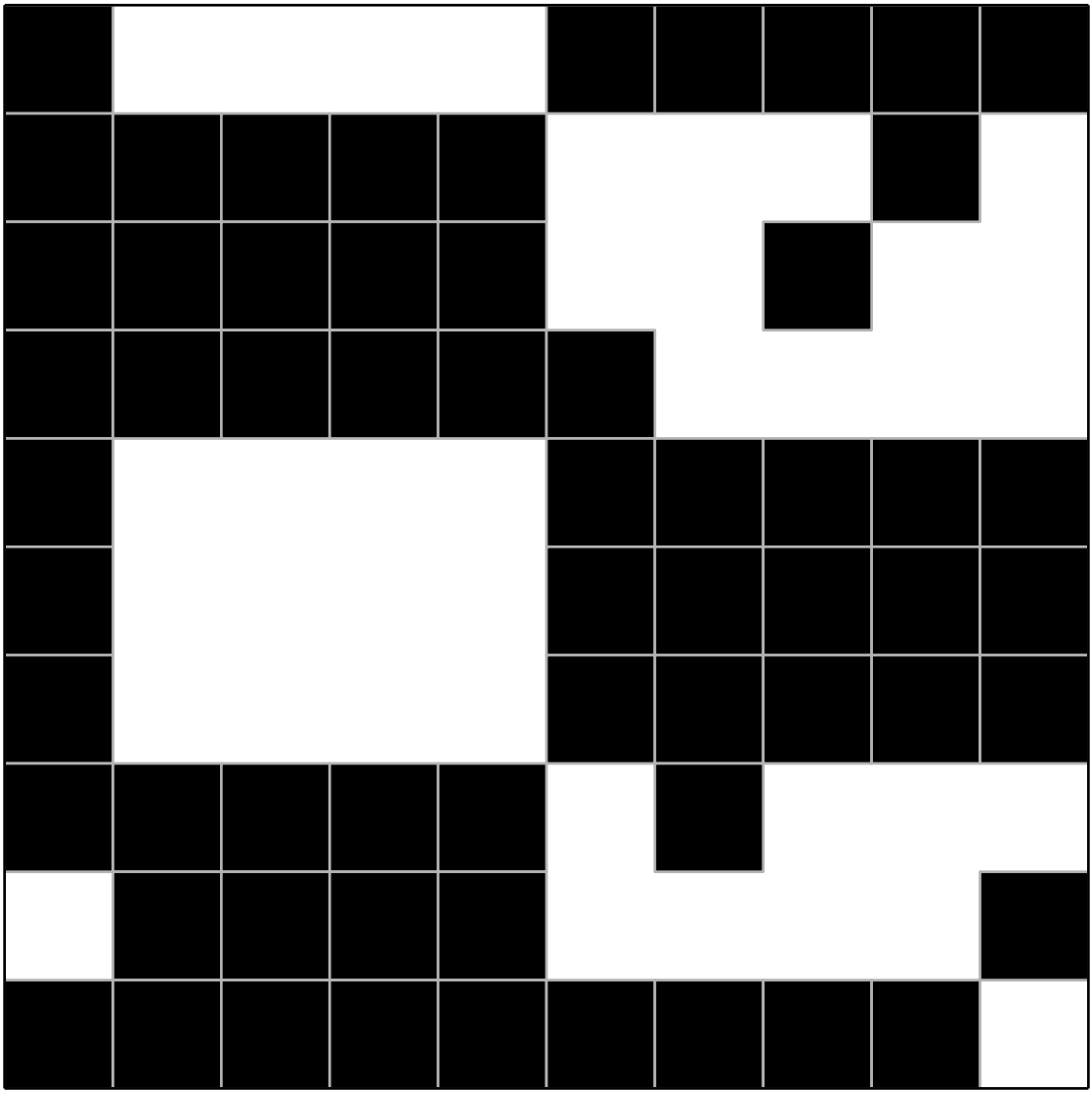
lib3_quadgrid-07 10x10 (62) con: 5, var: 5

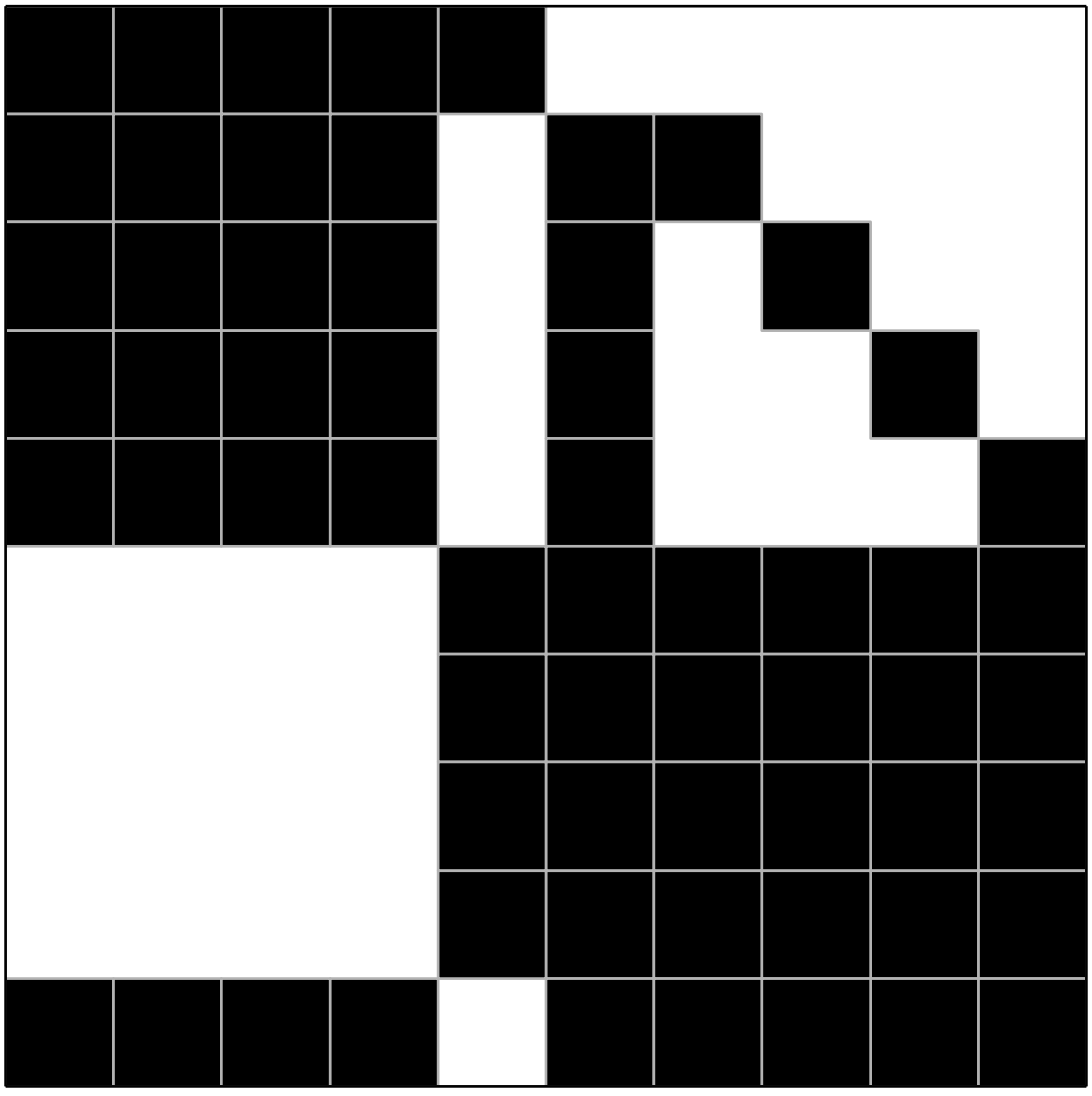


lib3_quadgrid-07, cost: 5, diff: 5, explored: 2, time: 0.00s



lib3_quadgrid-08 10x10 (62) con: 5, var: 5

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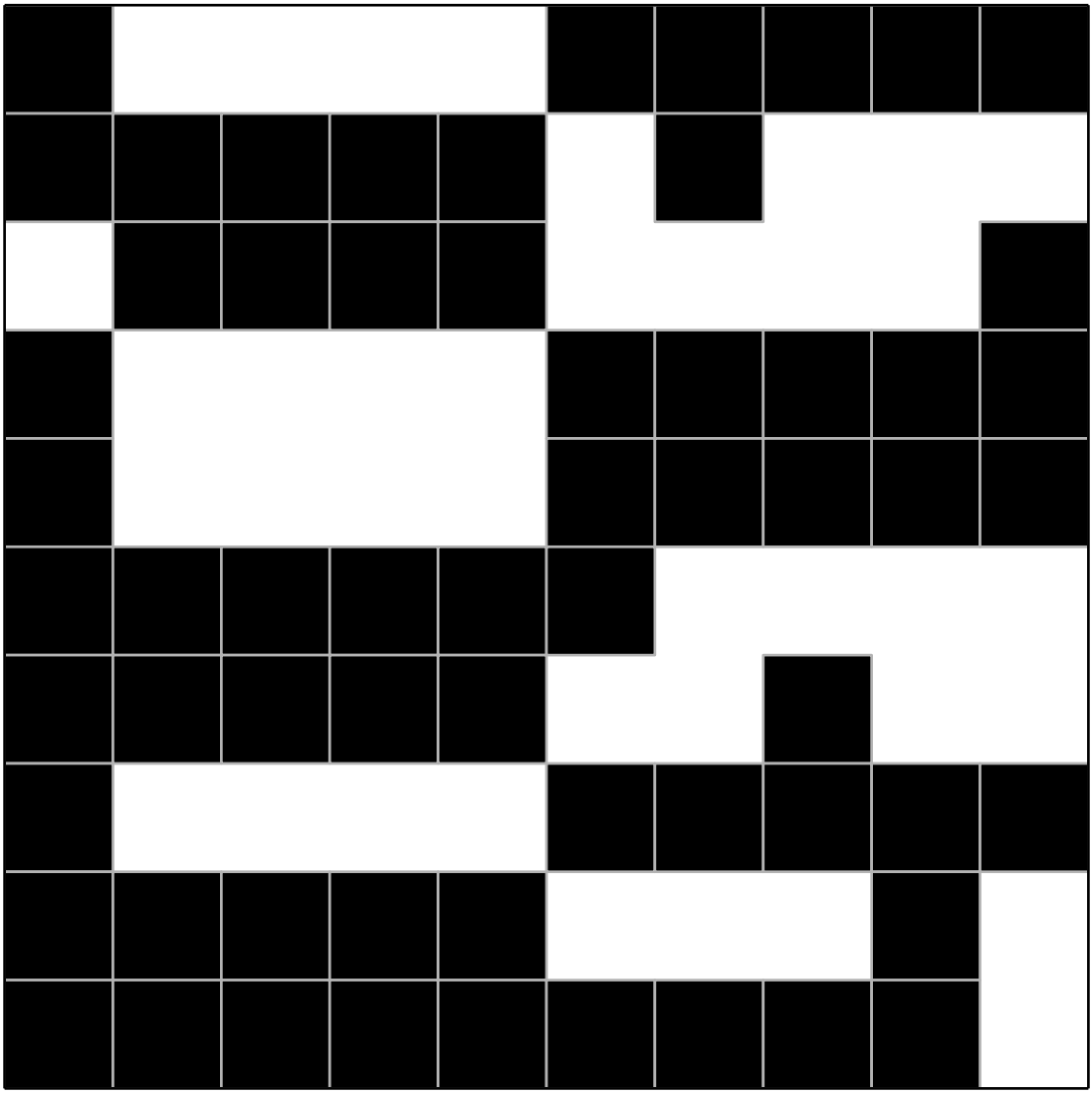
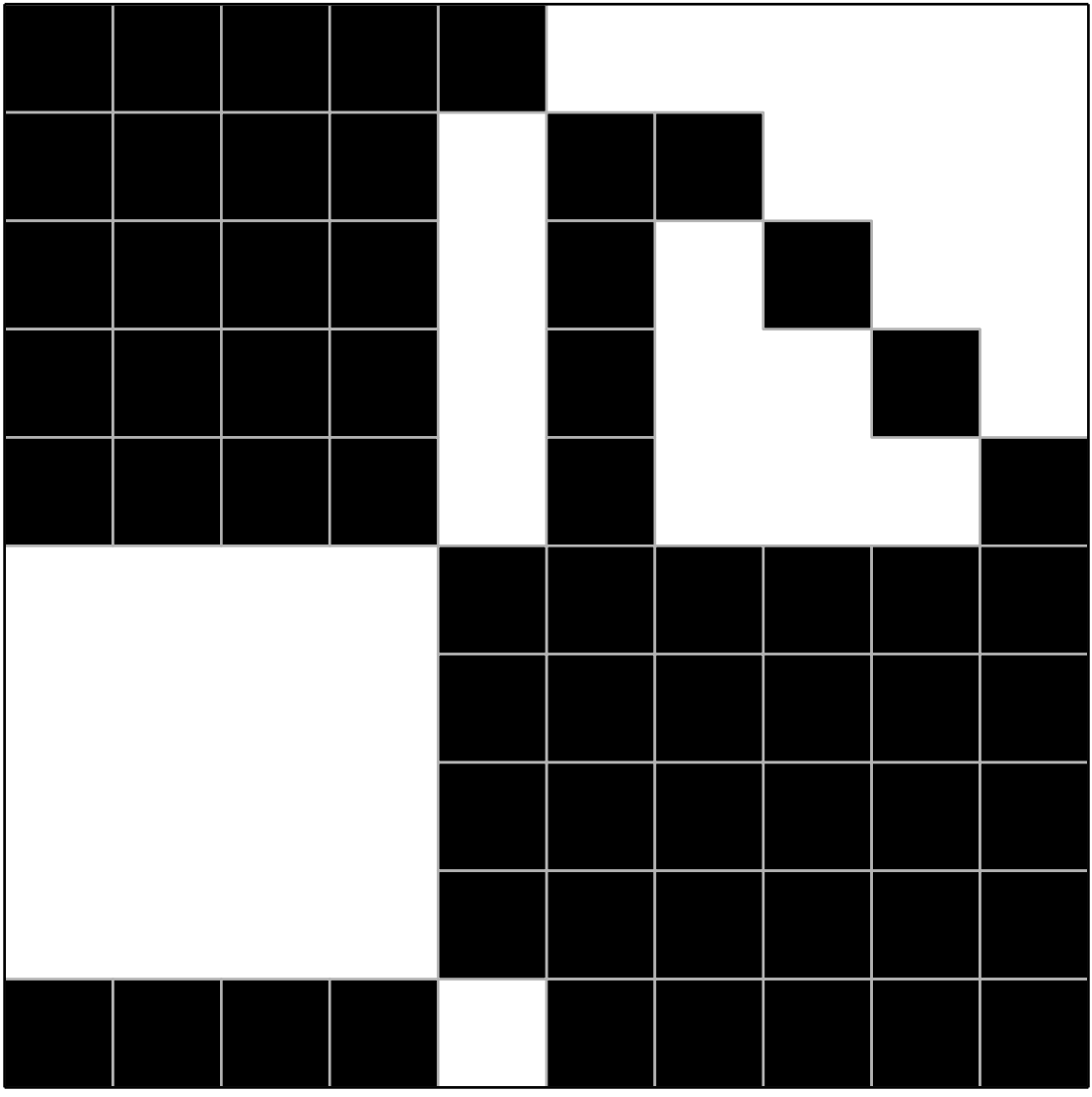
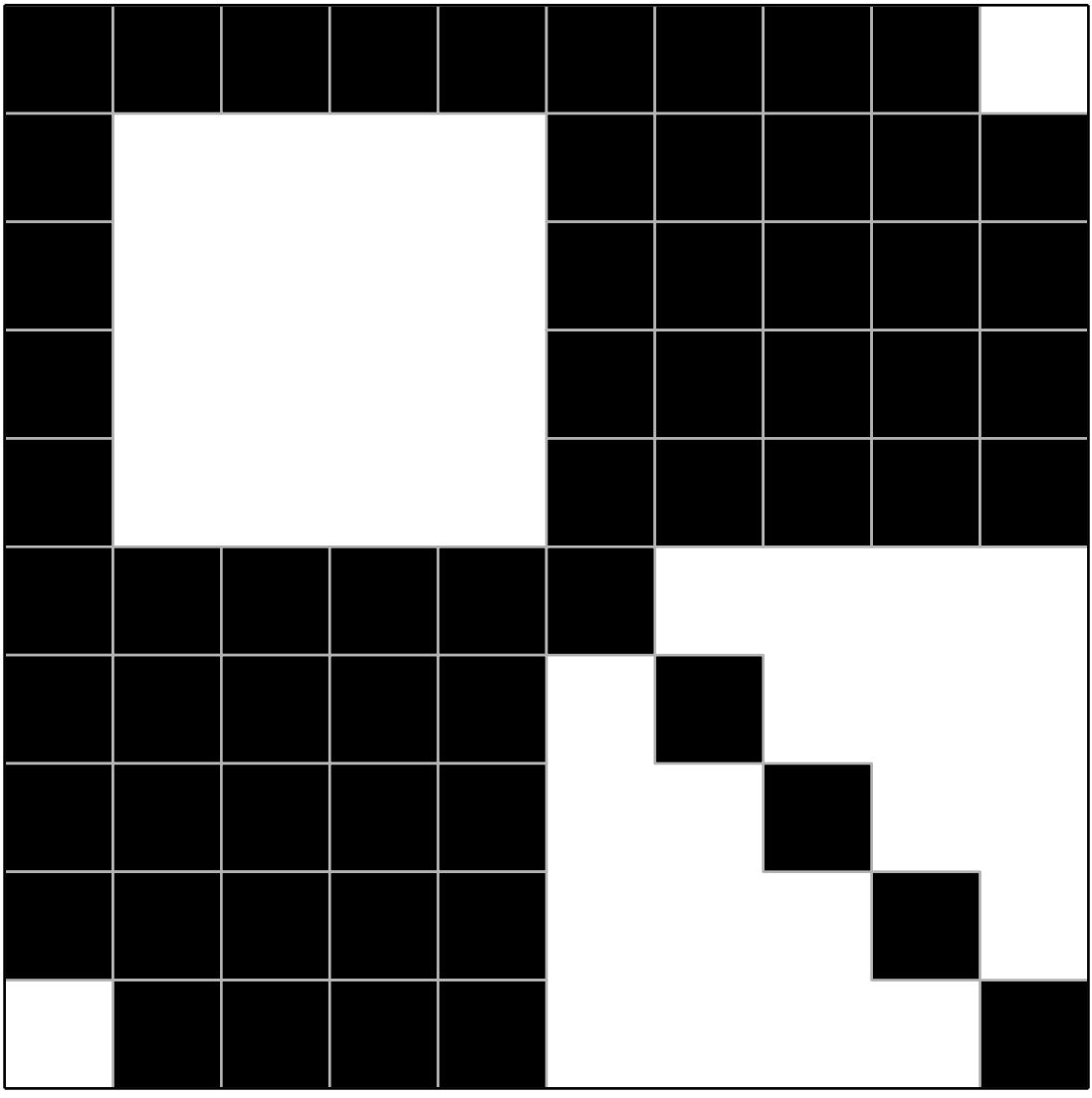
lib3_quadgrid-09 10x10 (62) con: 5, var: 5



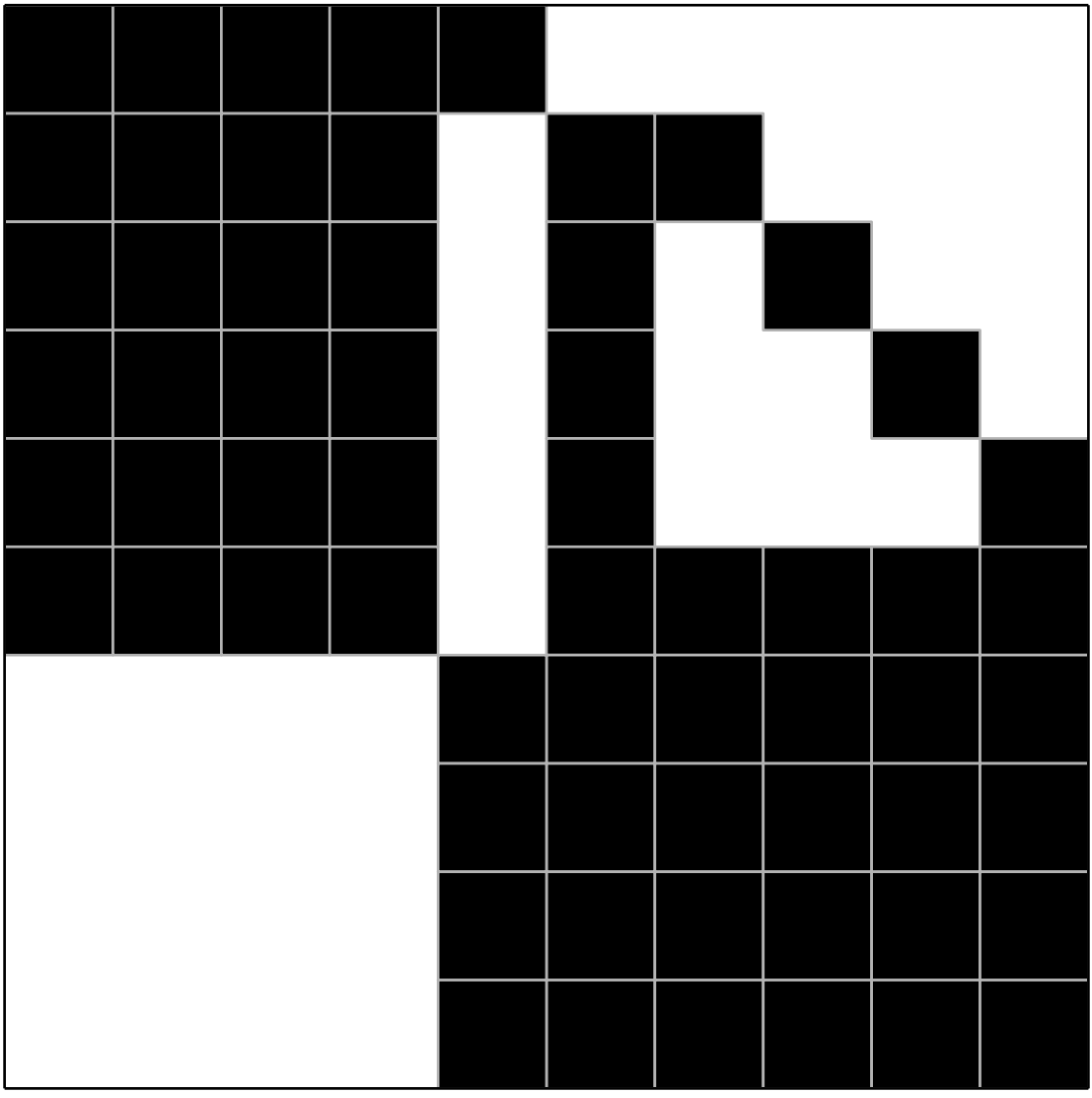
lib3_quadgrid-09, cost: 5, diff: 5, explored: 2, time: 0.00s



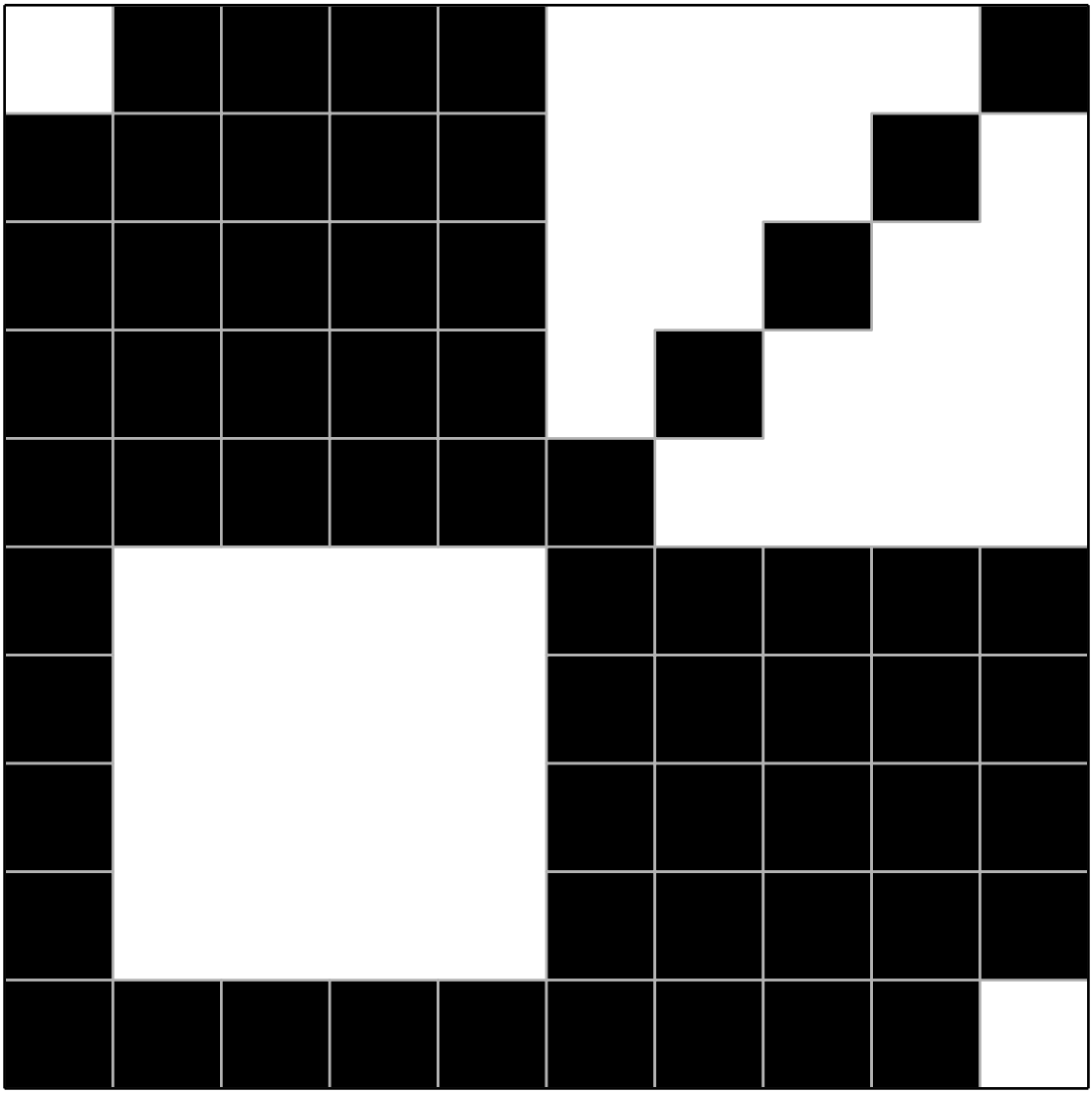
lib3_quadgrid-IN 10x10 (62) con: 5, var: 5



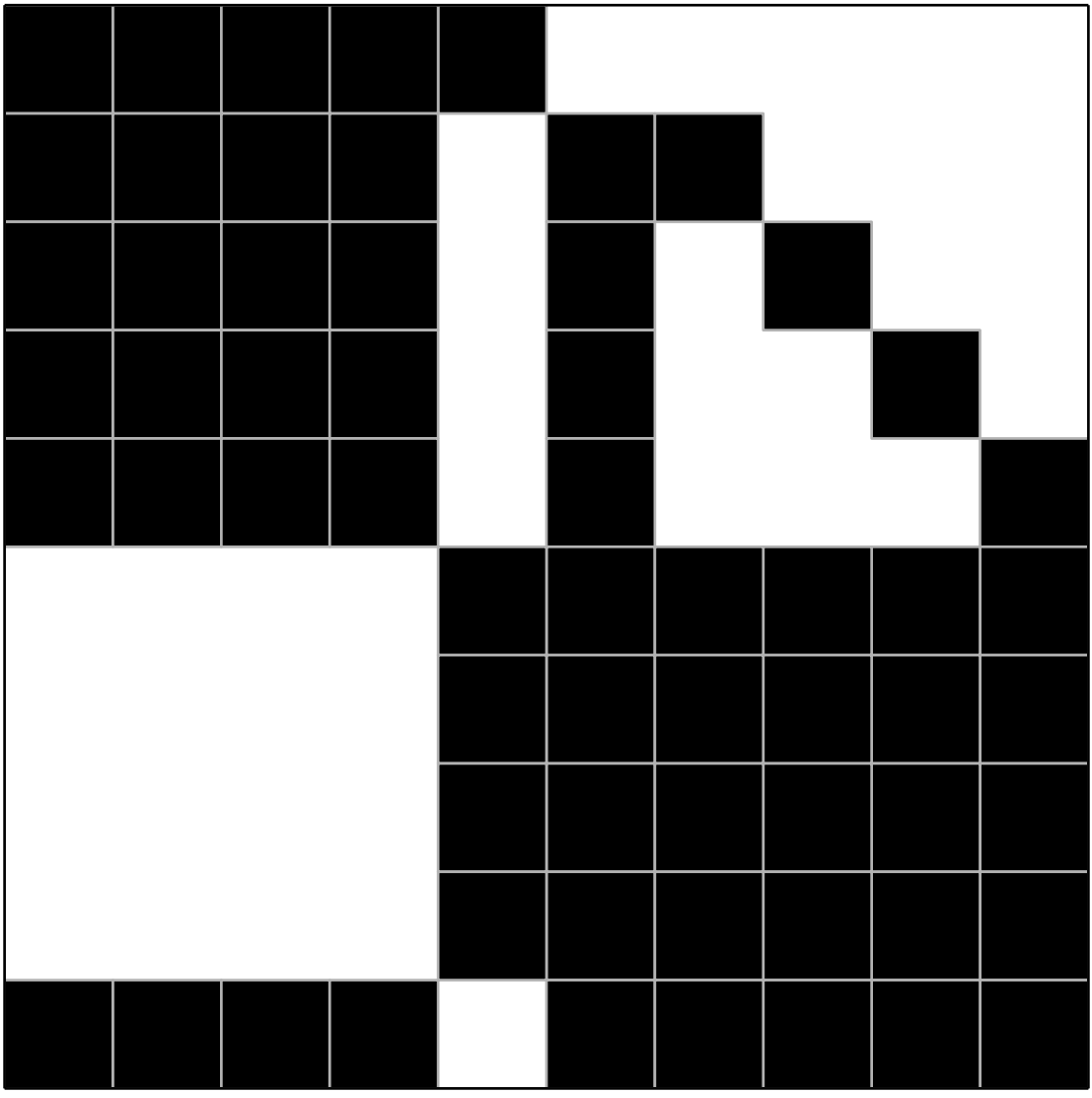
lib3_quadgrid-IN, cost: 5, diff: 5, explored: 2, time: 0.00s



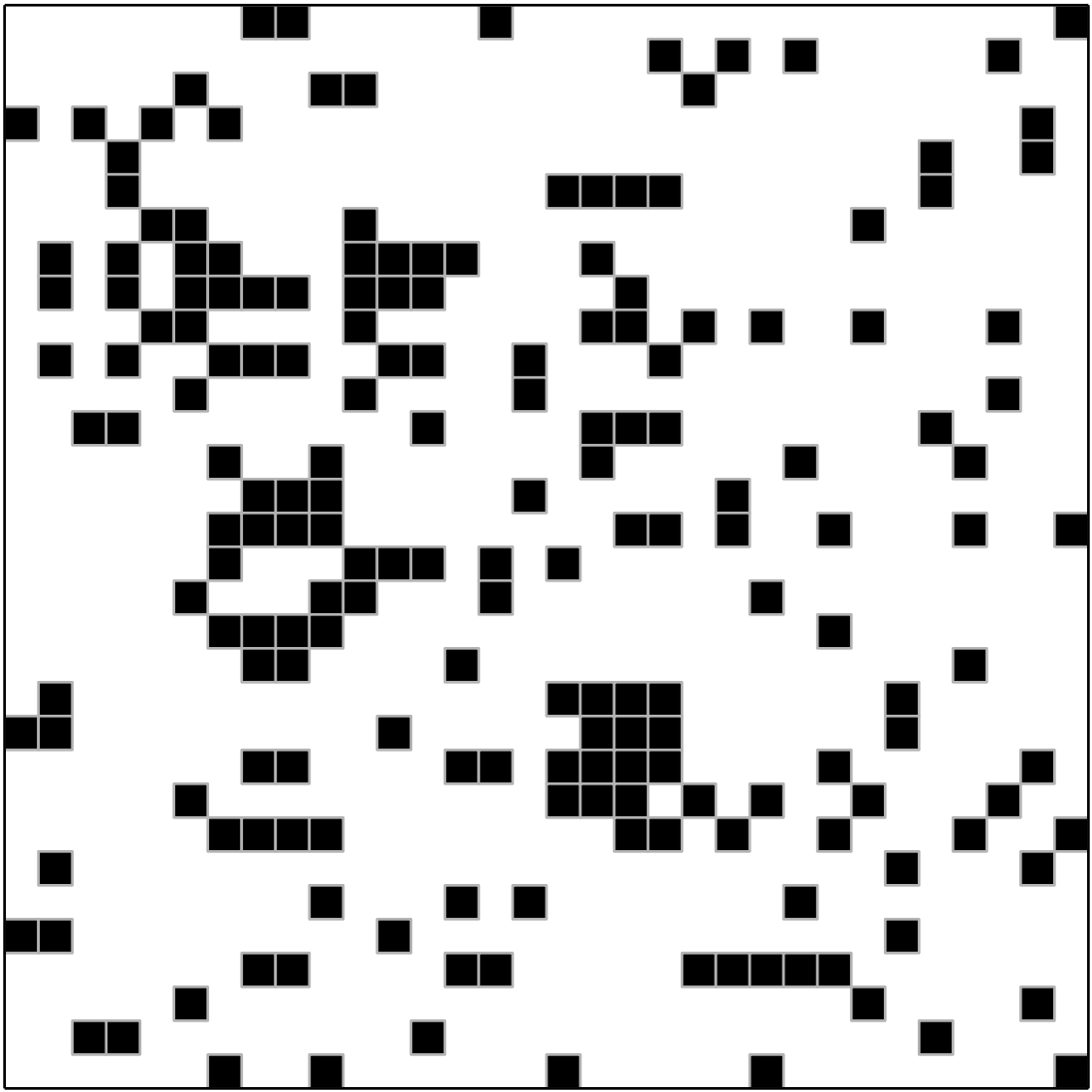
lib3_quadgrid-RE 10x10 (62) con: 5, var: 5

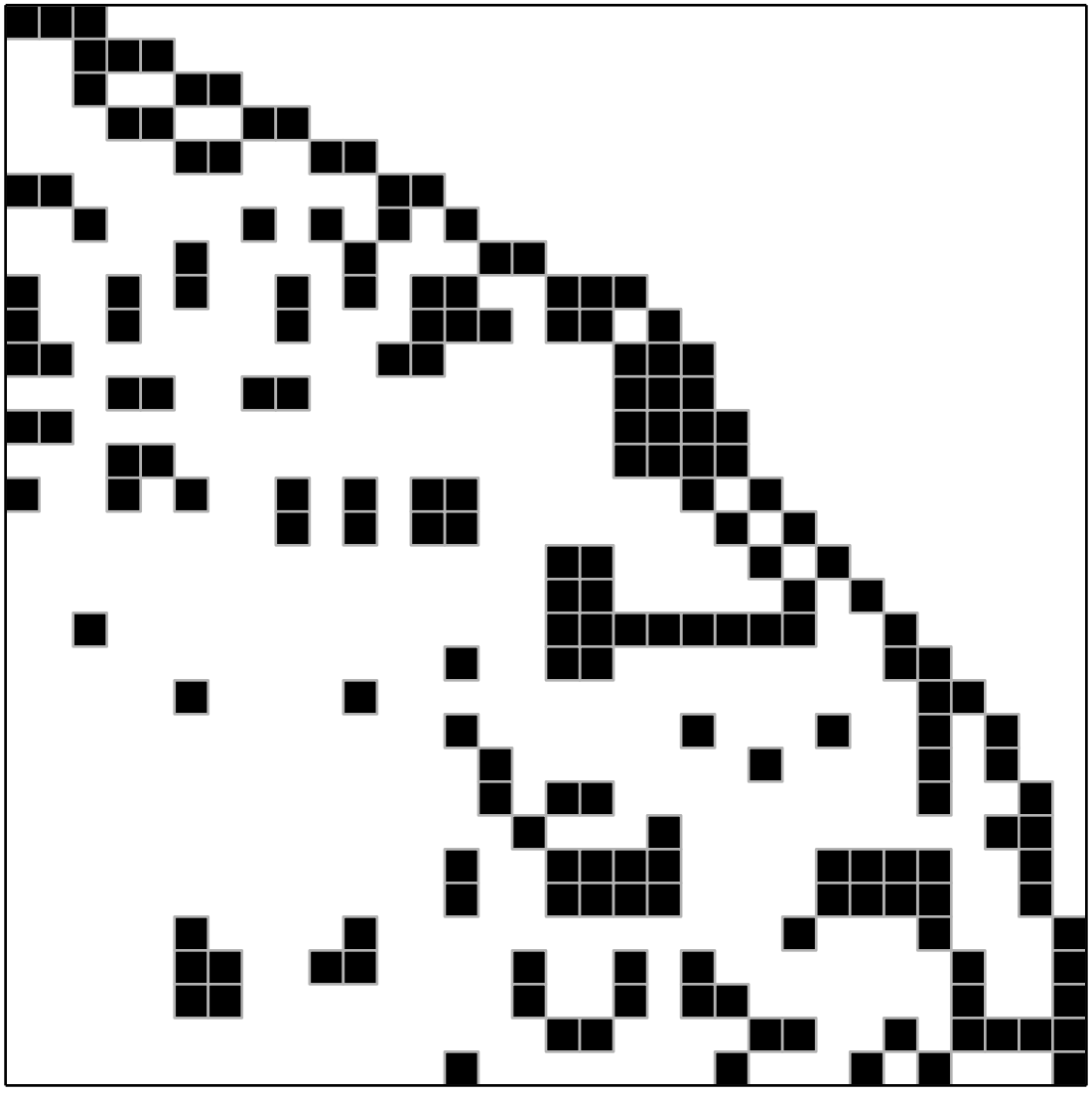


lib3_quadgrid-RE, cost: 5, diff: 5, explored: 2, time: 0.00s

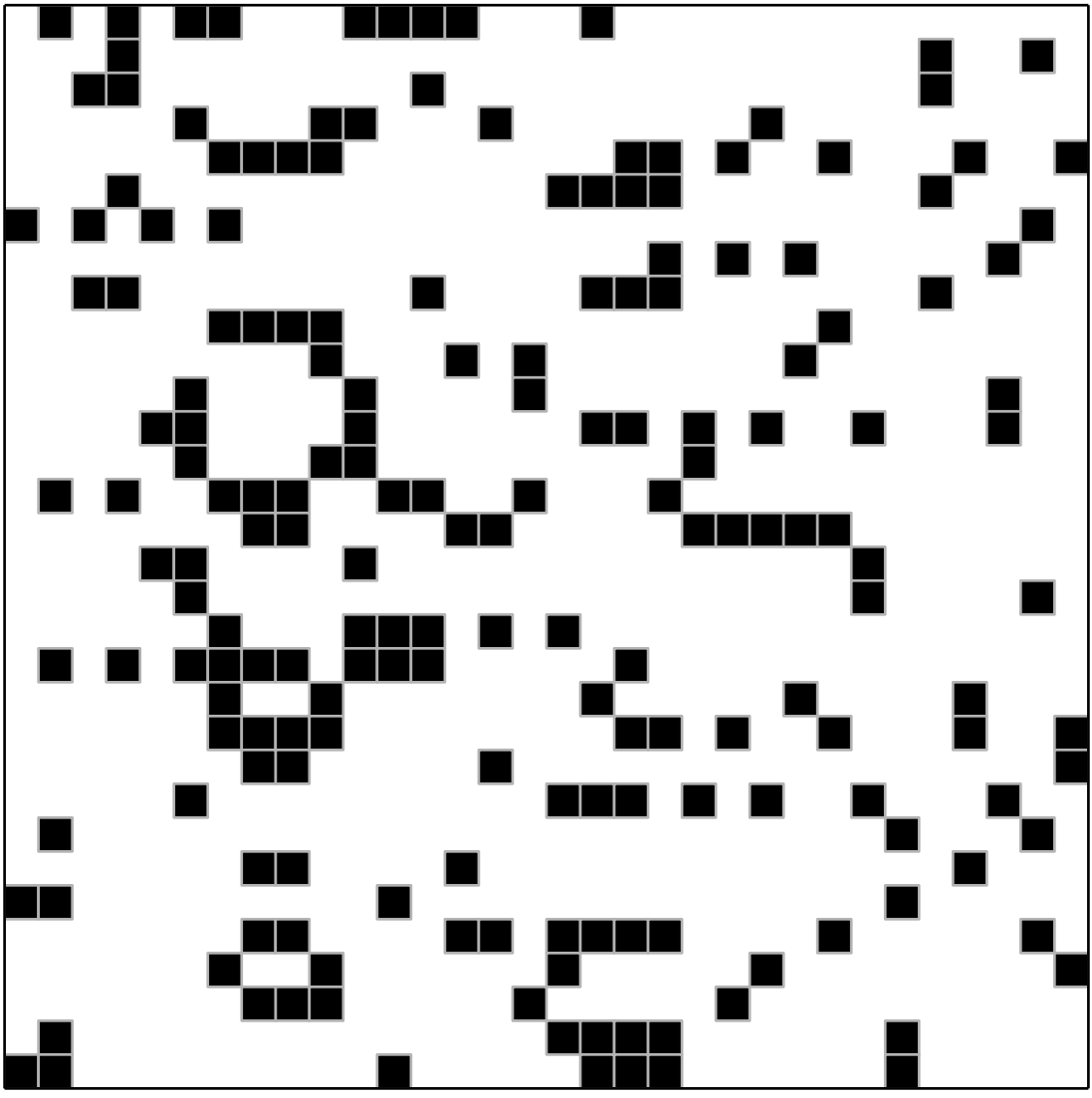


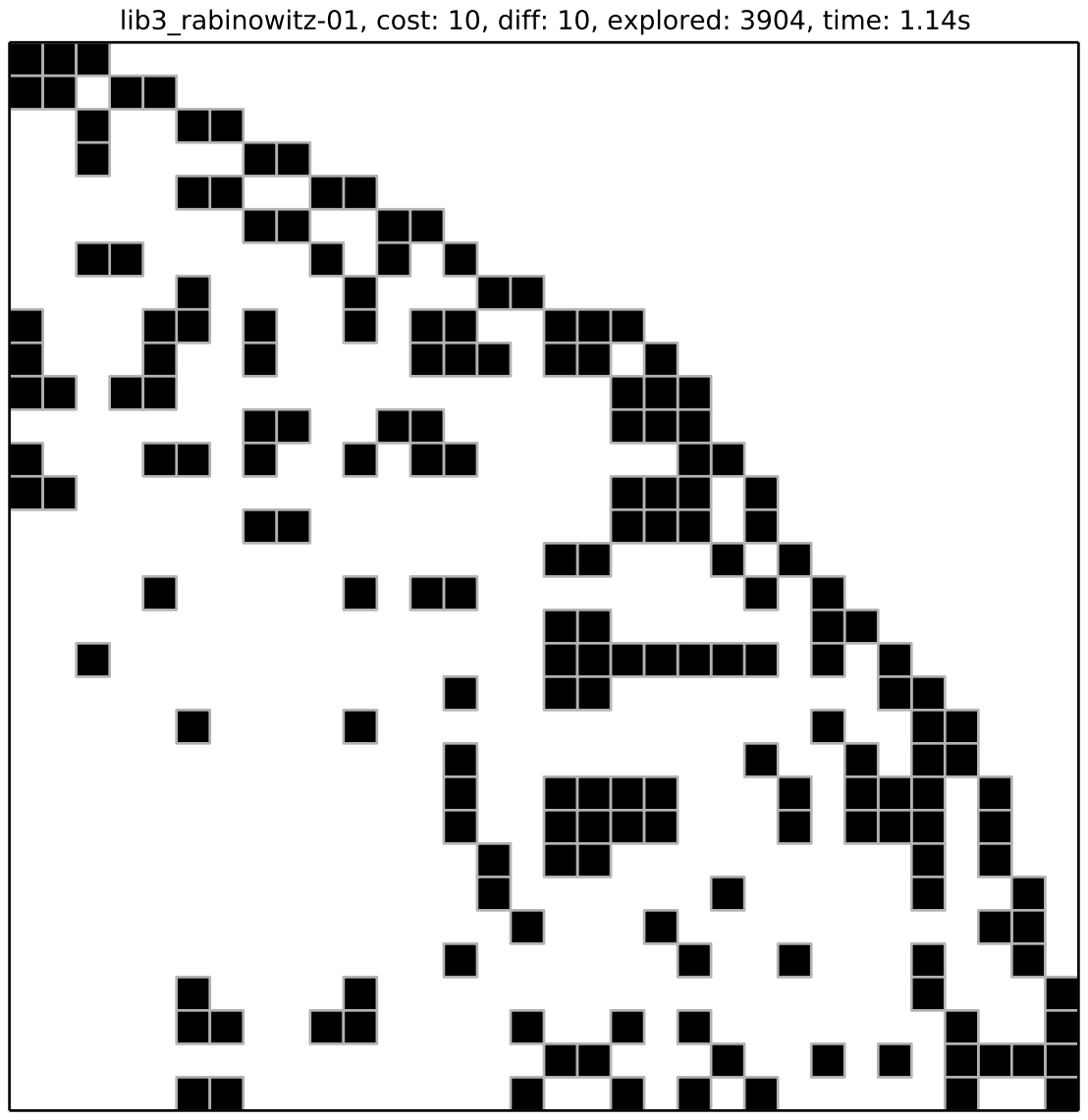
lib3_rabinowitz-00 32x32 (191) con: 16, var: 16



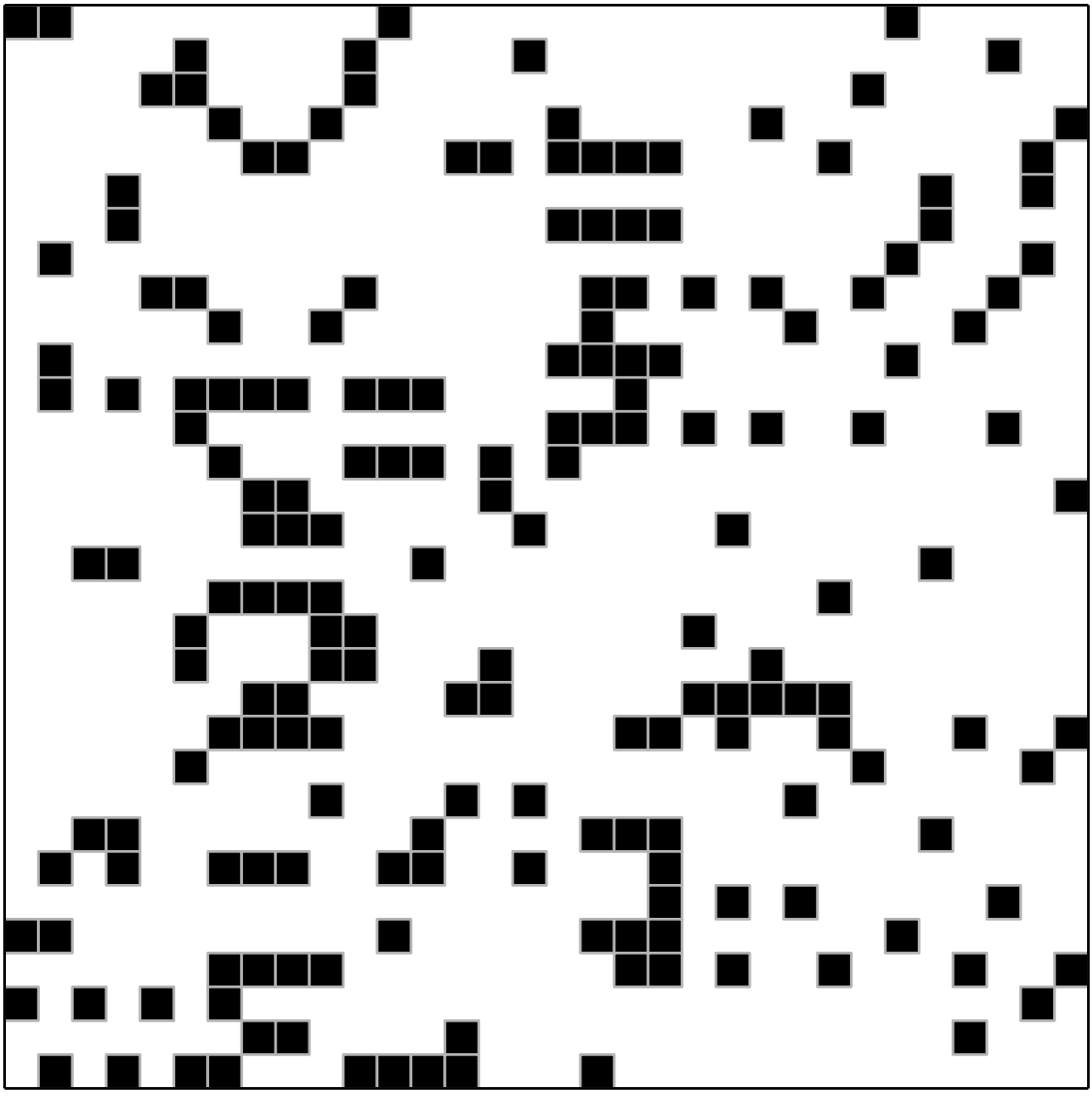

lib3_rabinowitz-00, cost: 10, diff: 10, explored: 3920, time: 1.15s

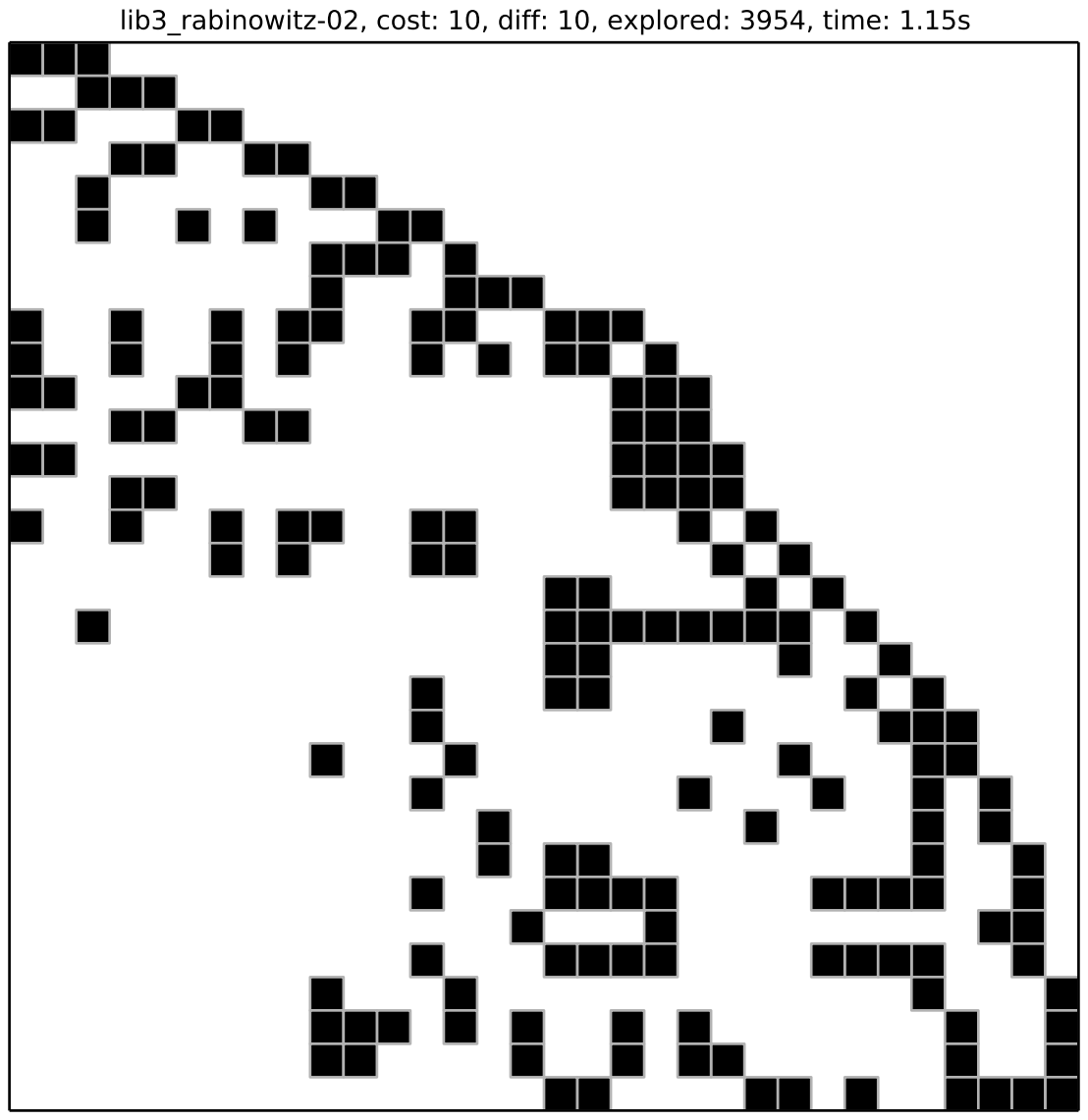
lib3_rabinowitz-01 32x32 (191) con: 16, var: 16



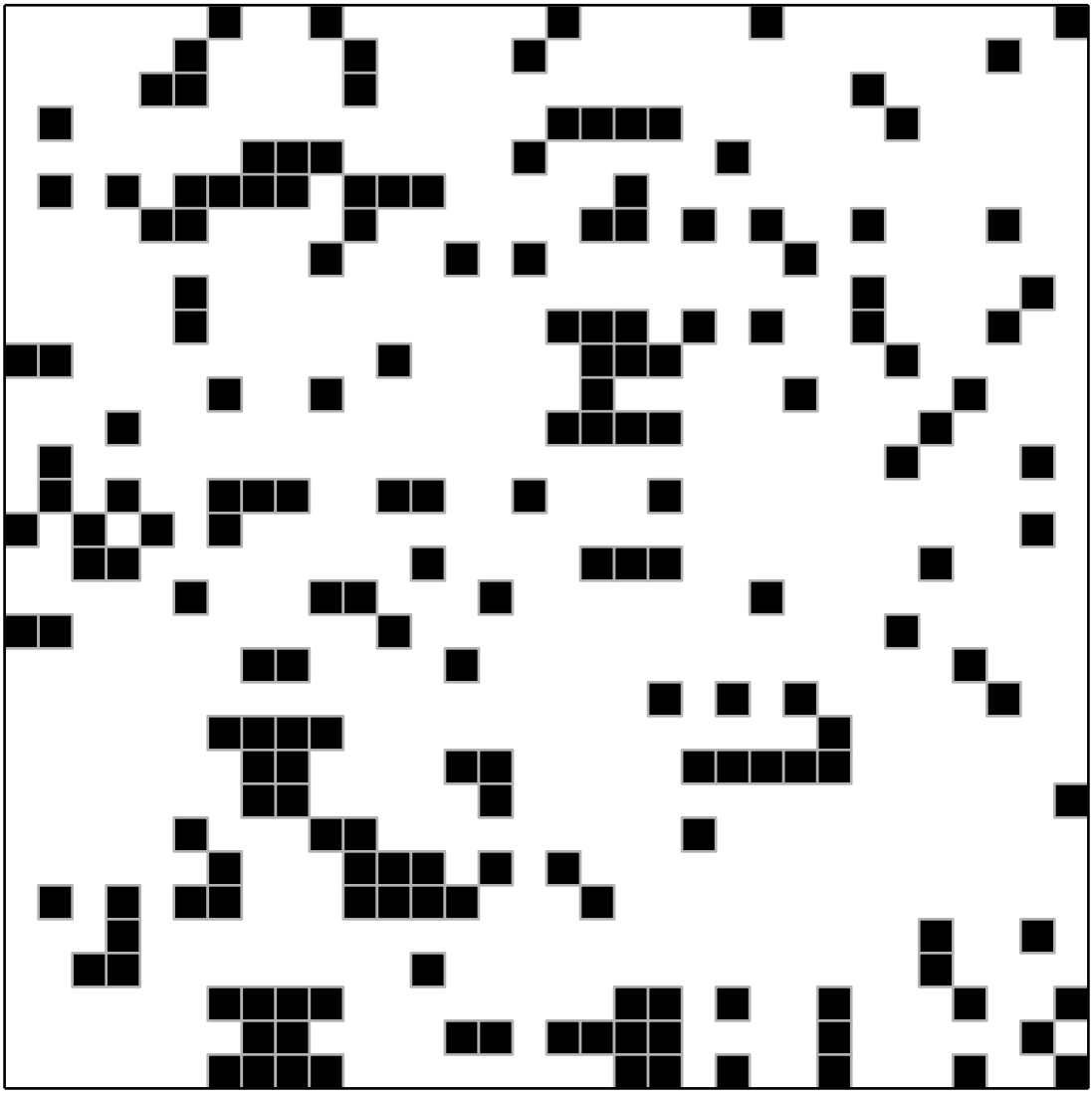

lib3_rabinowitz-01, cost: 10, diff: 10, explored: 3904, time: 1.14s

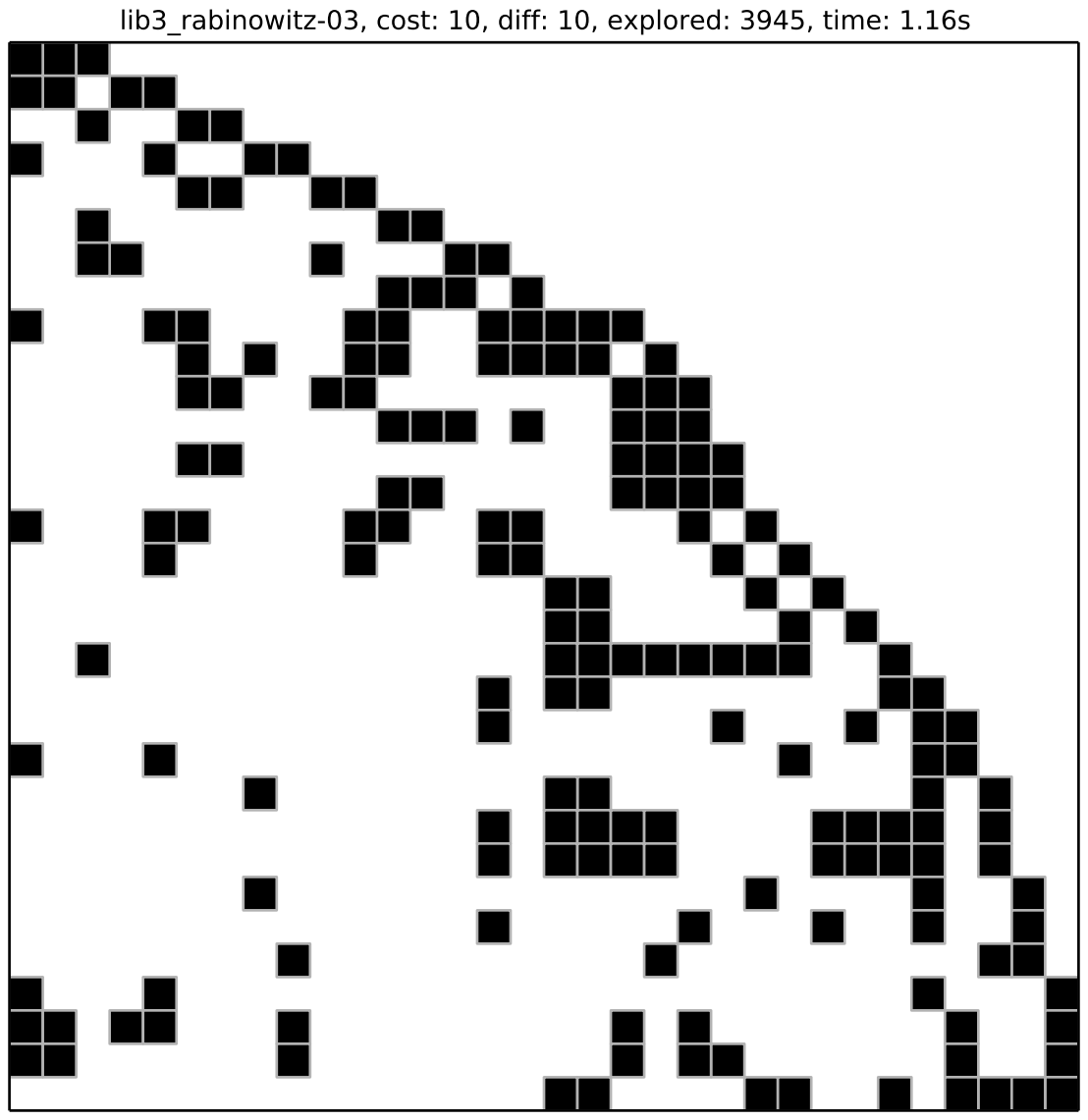
lib3_rabinowitz-02 32x32 (191) con: 16, var: 16



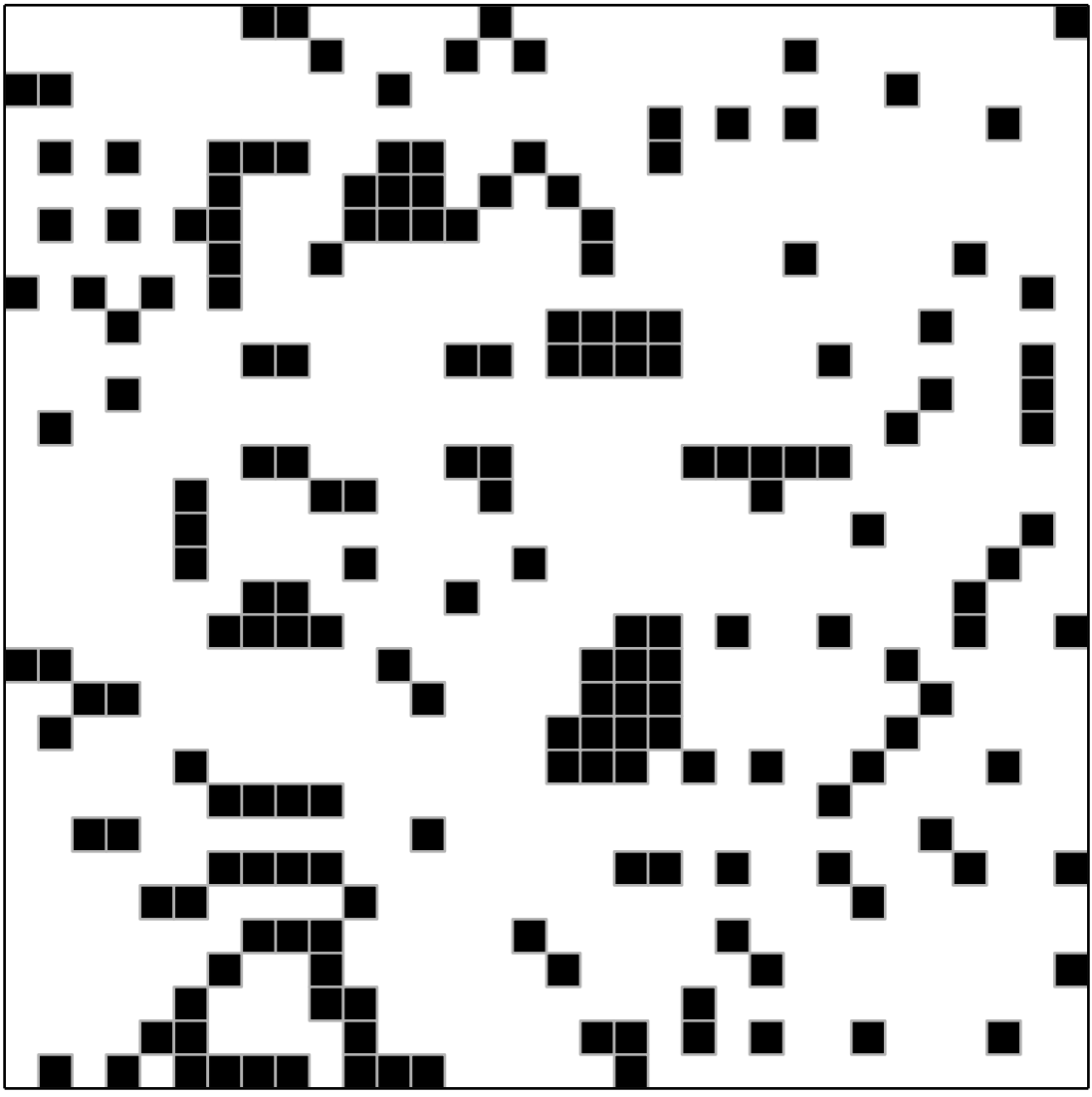

lib3_rabinowitz-02, cost: 10, diff: 10, explored: 3954, time: 1.15s

lib3_rabinowitz-03 32x32 (191) con: 16, var: 16

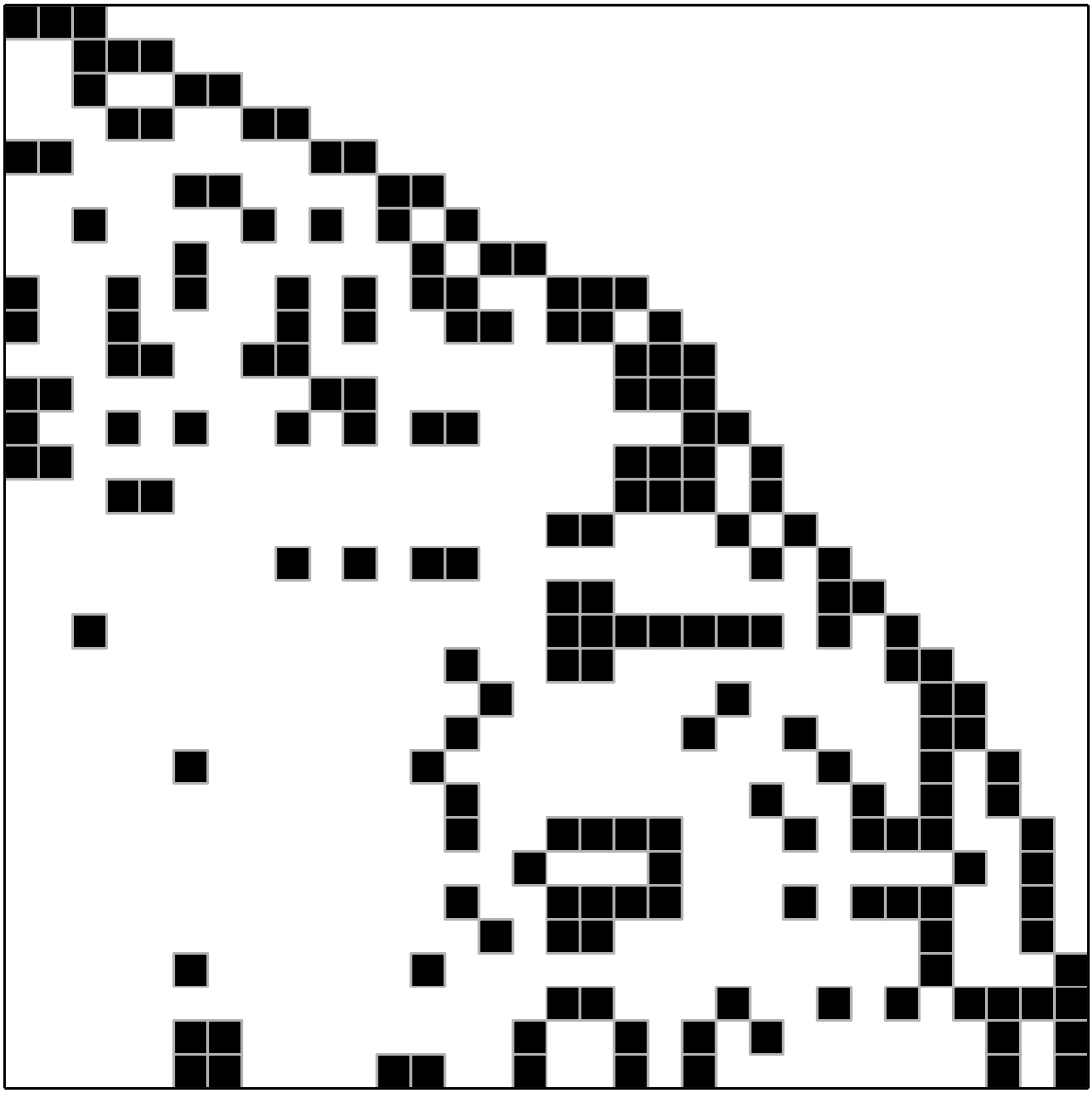



lib3_rabinowitz-03, cost: 10, diff: 10, explored: 3945, time: 1.16s

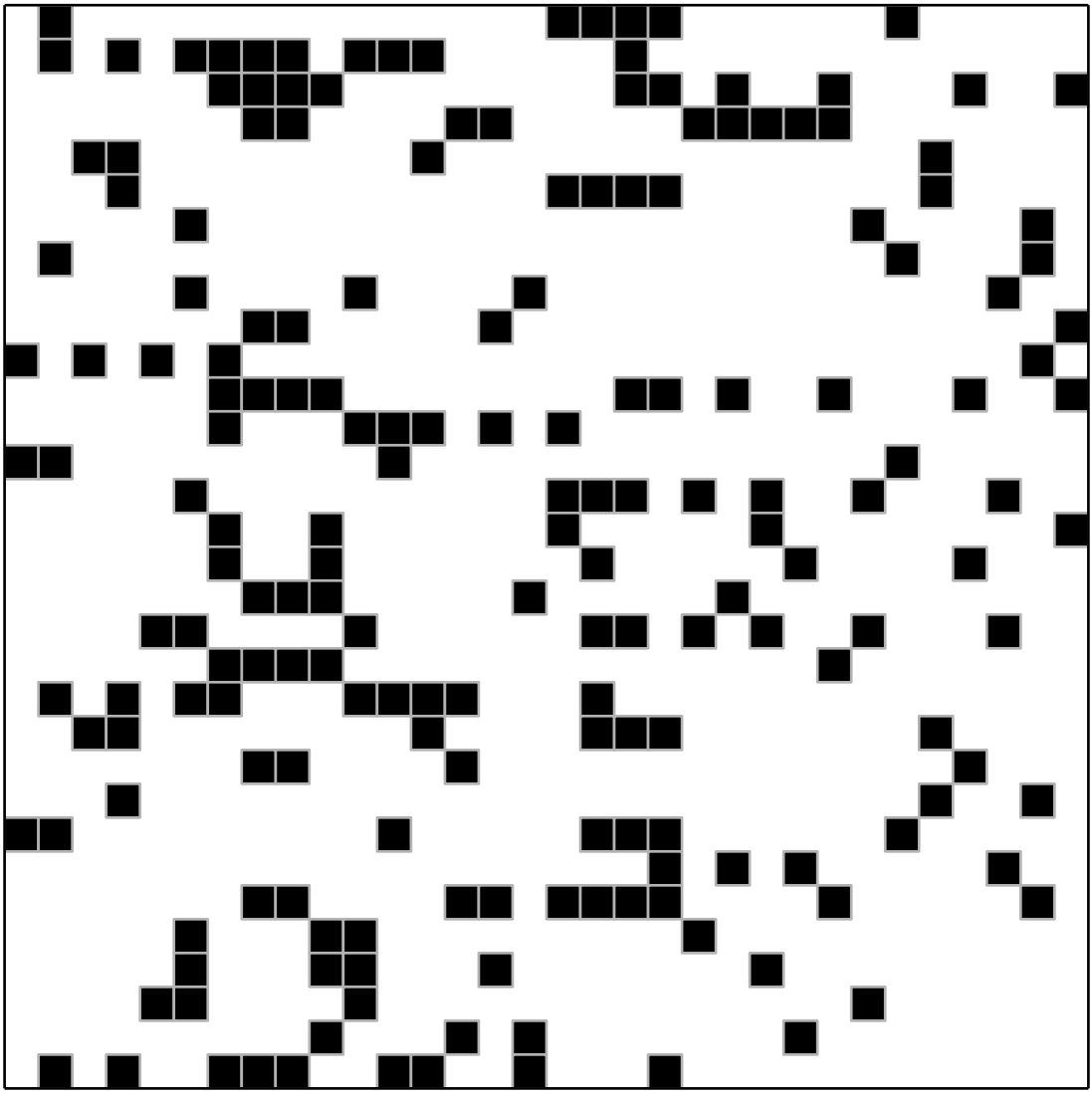
lib3_rabinowitz-04 32x32 (191) con: 16, var: 16

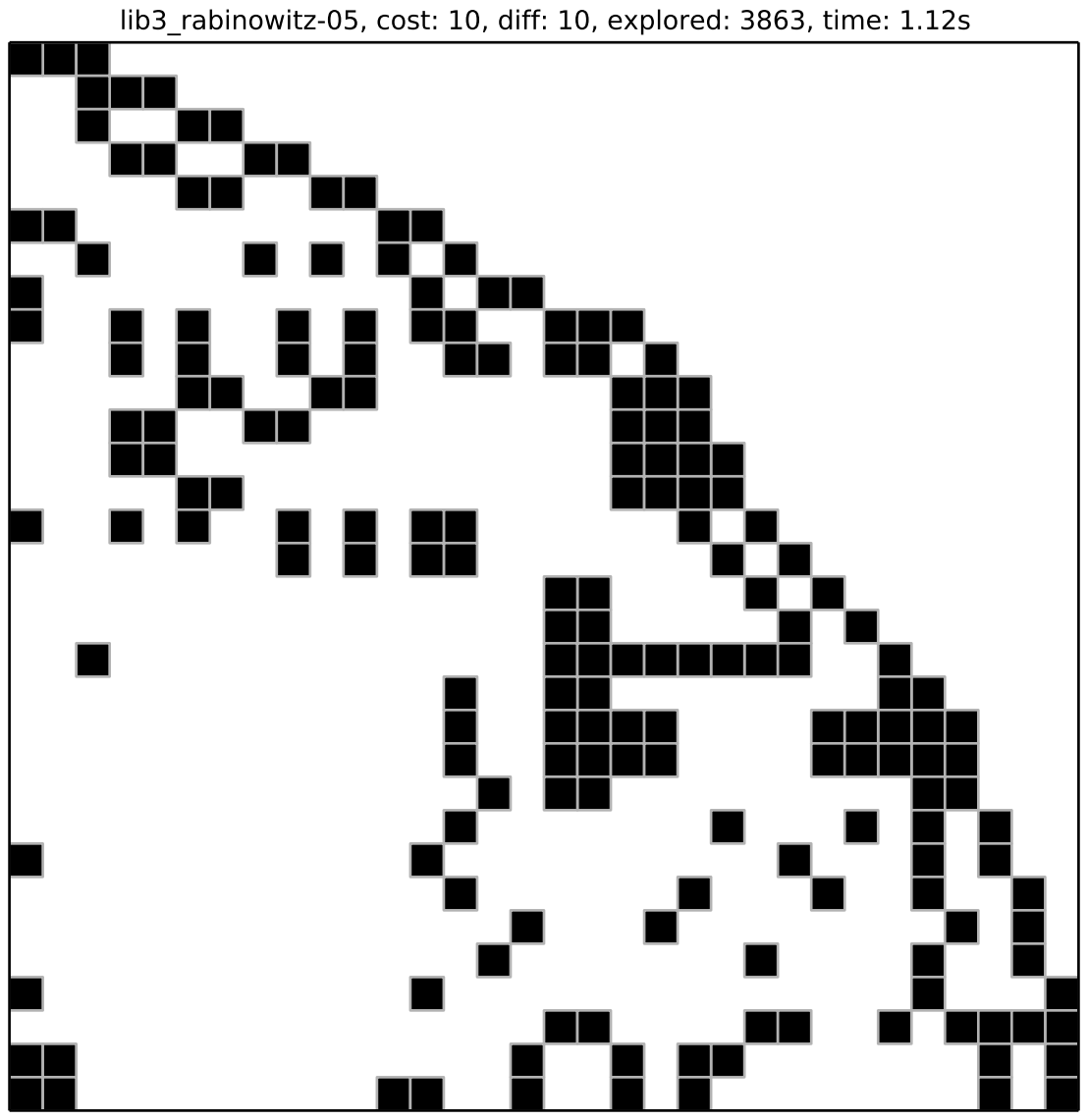


lib3_rabinowitz-04, cost: 10, diff: 10, explored: 3924, time: 1.15s

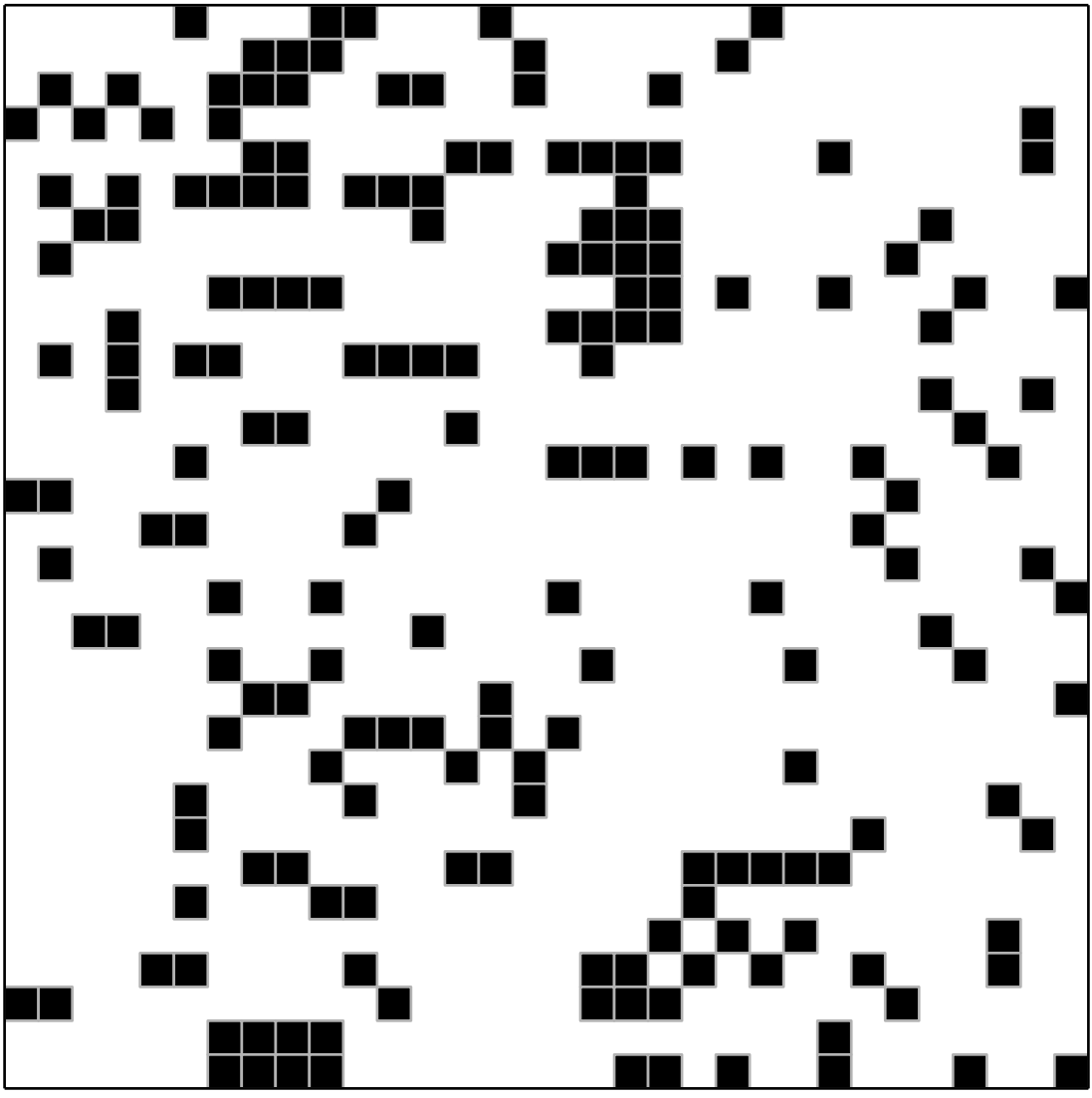


lib3_rabinowitz-05 32x32 (191) con: 16, var: 16

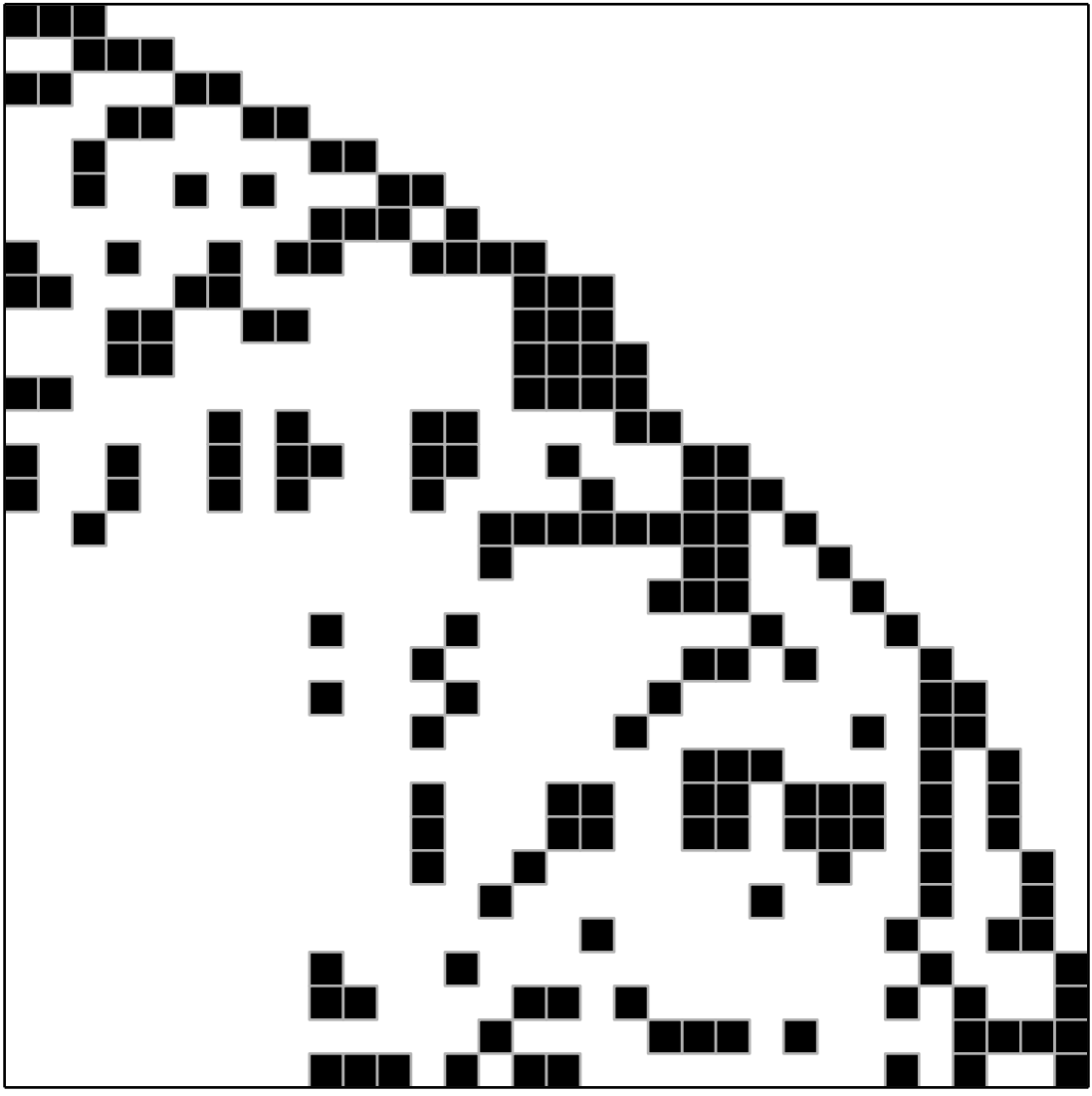



lib3_rabinowitz-05, cost: 10, diff: 10, explored: 3863, time: 1.12s

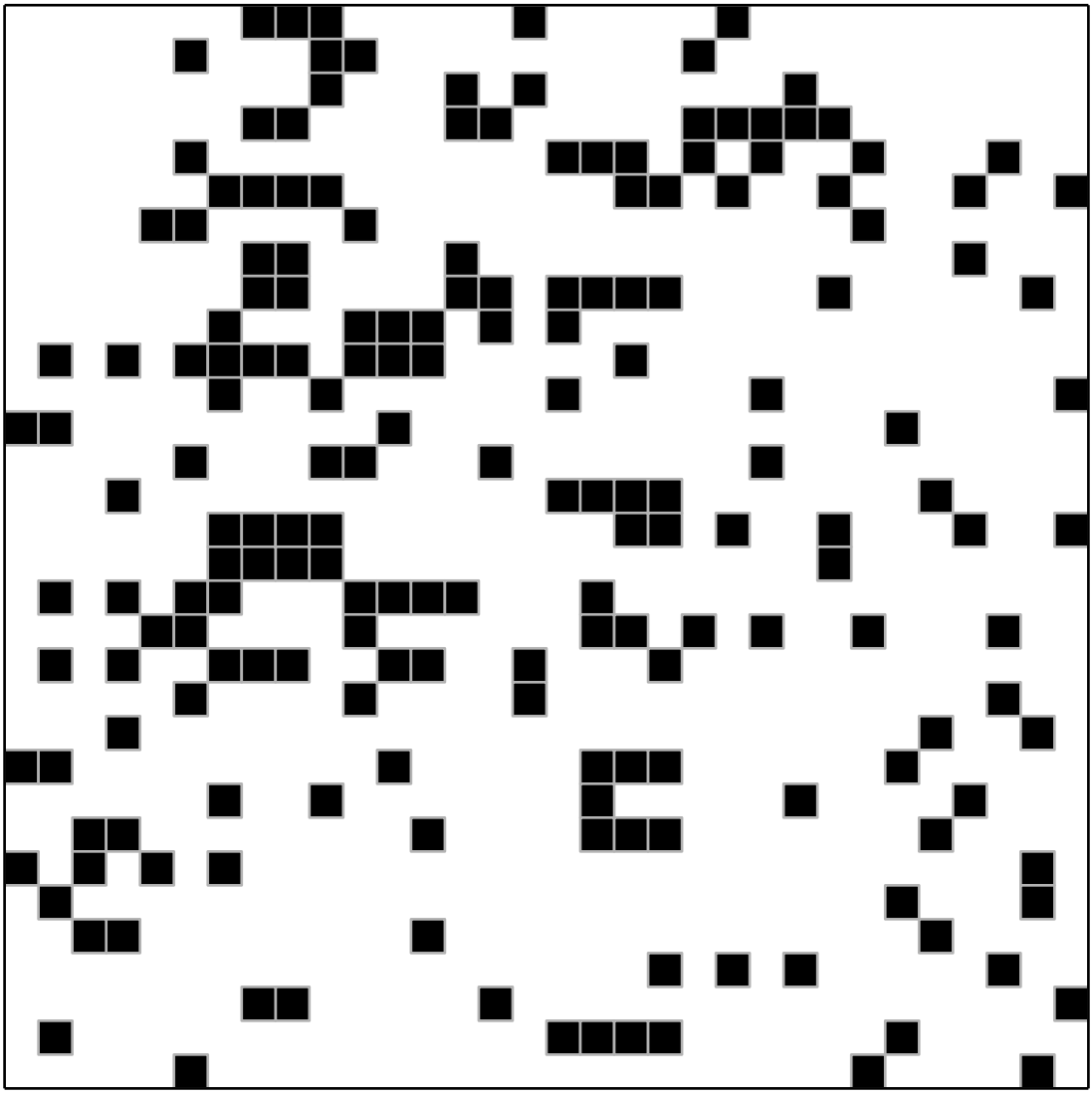
lib3_rabinowitz-06 32x32 (191) con: 16, var: 16



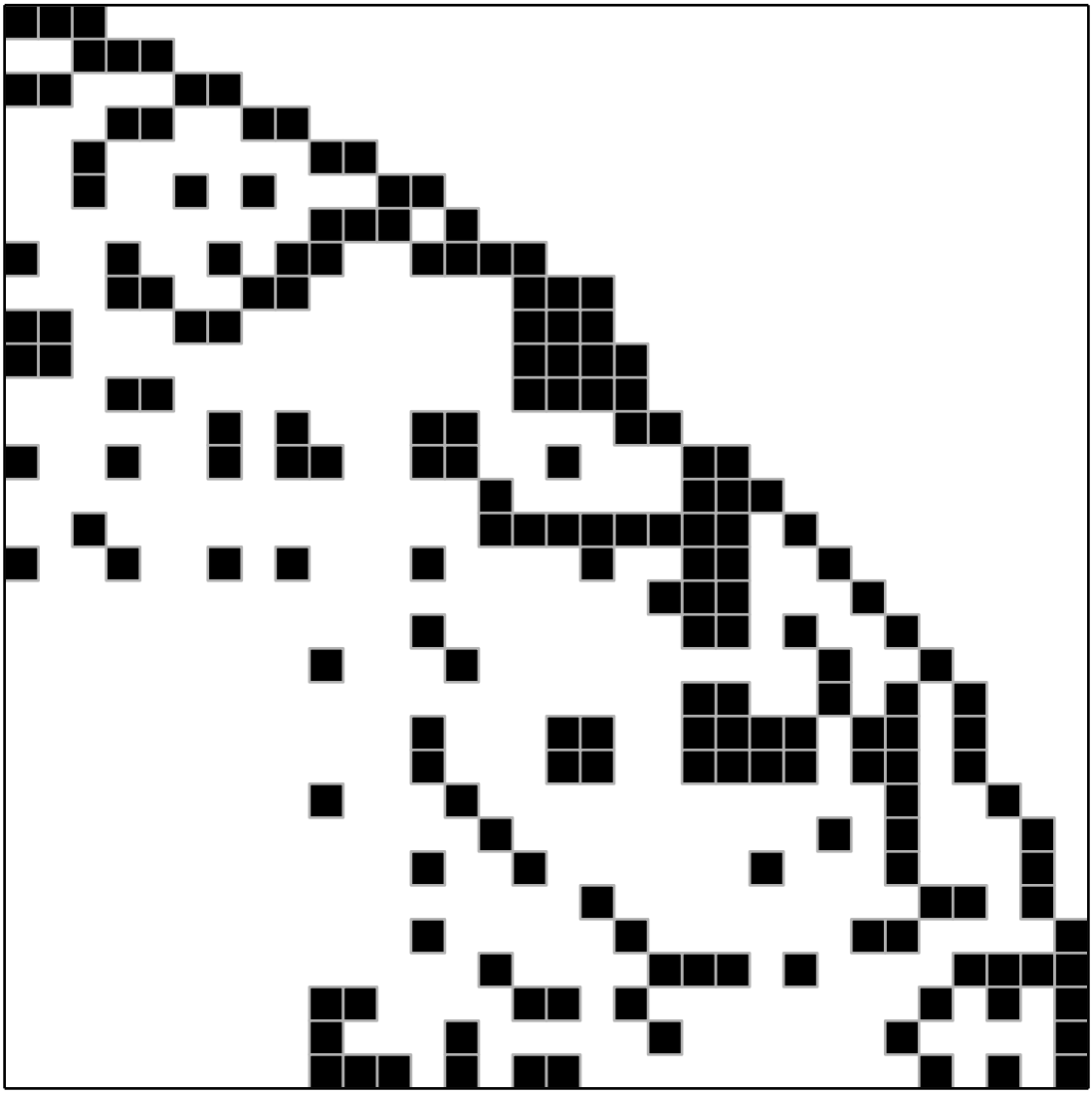
lib3_rabinowitz-06, cost: 10, diff: 10, explored: 3946, time: 1.15s



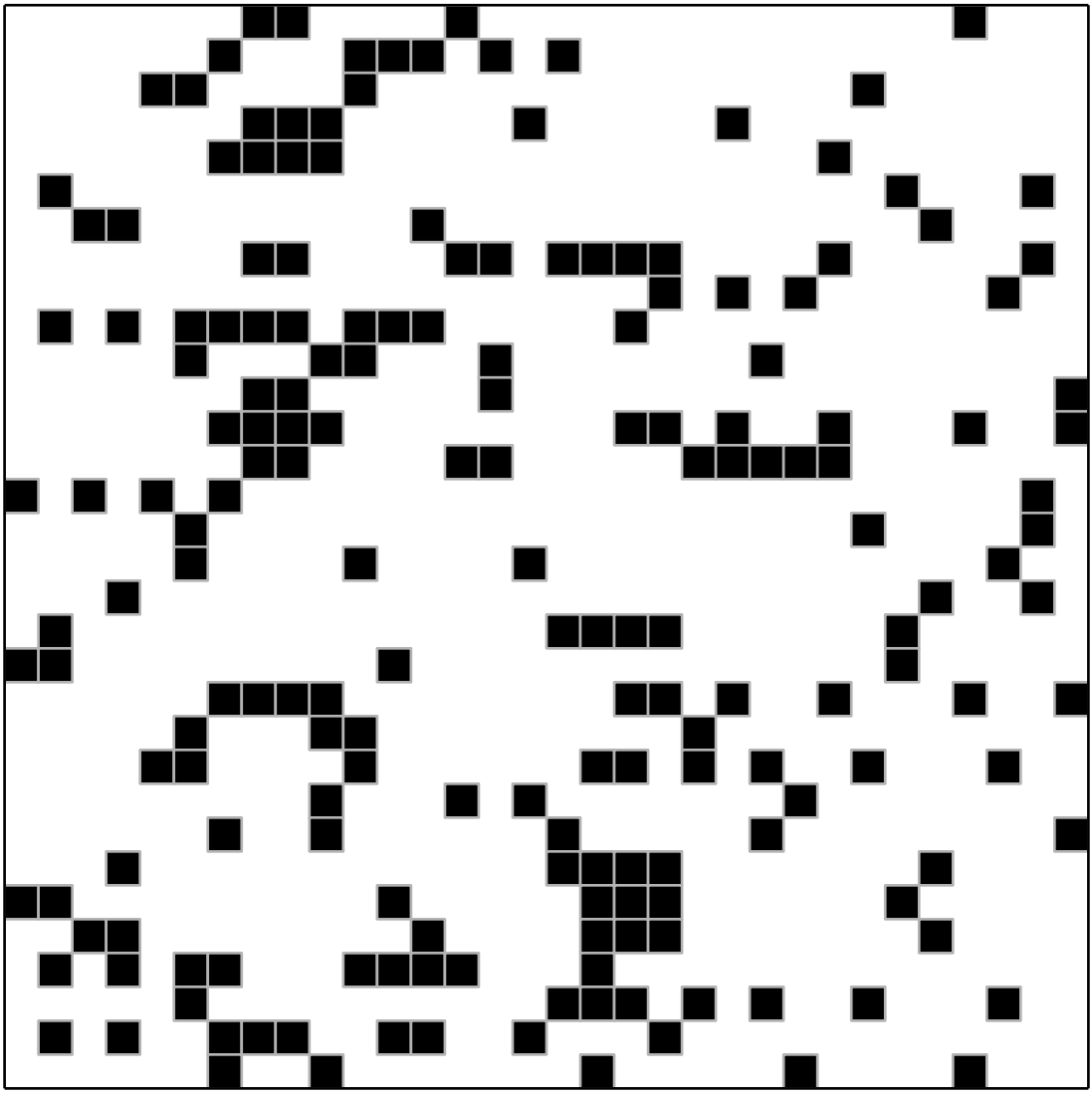
lib3_rabinowitz-07 32x32 (191) con: 16, var: 16

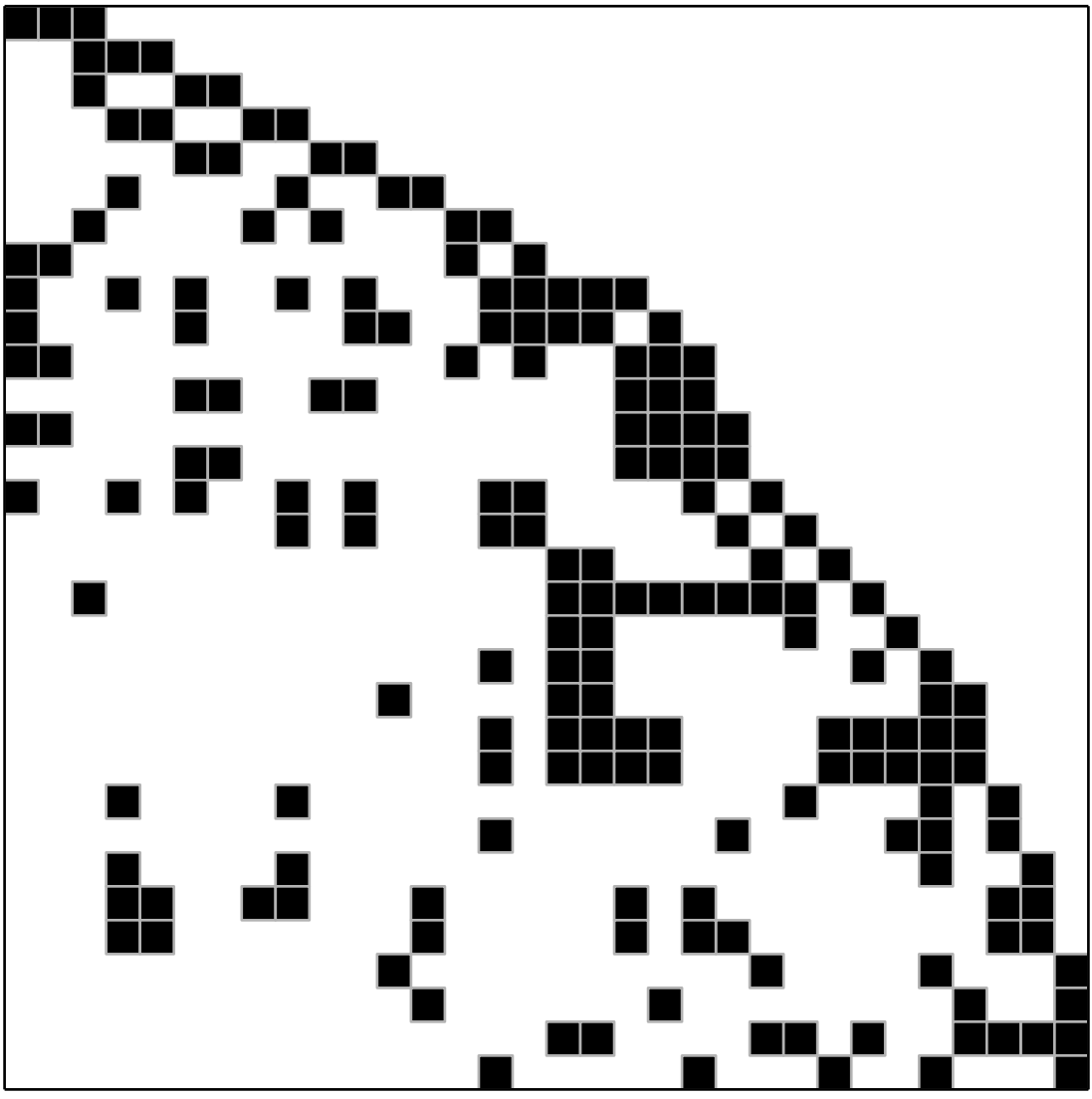


lib3_rabinowitz-07, cost: 10, diff: 10, explored: 3964, time: 1.15s

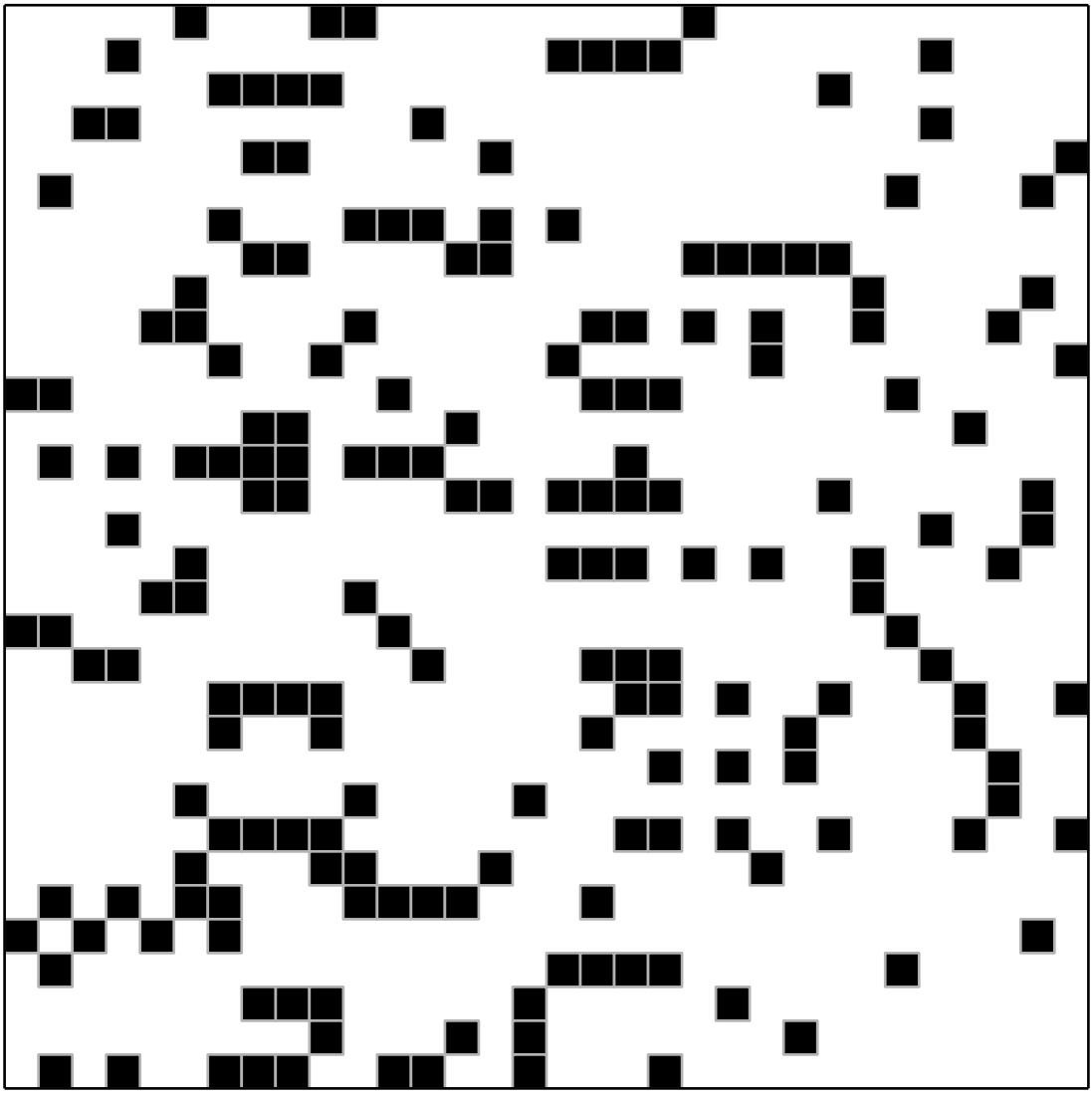


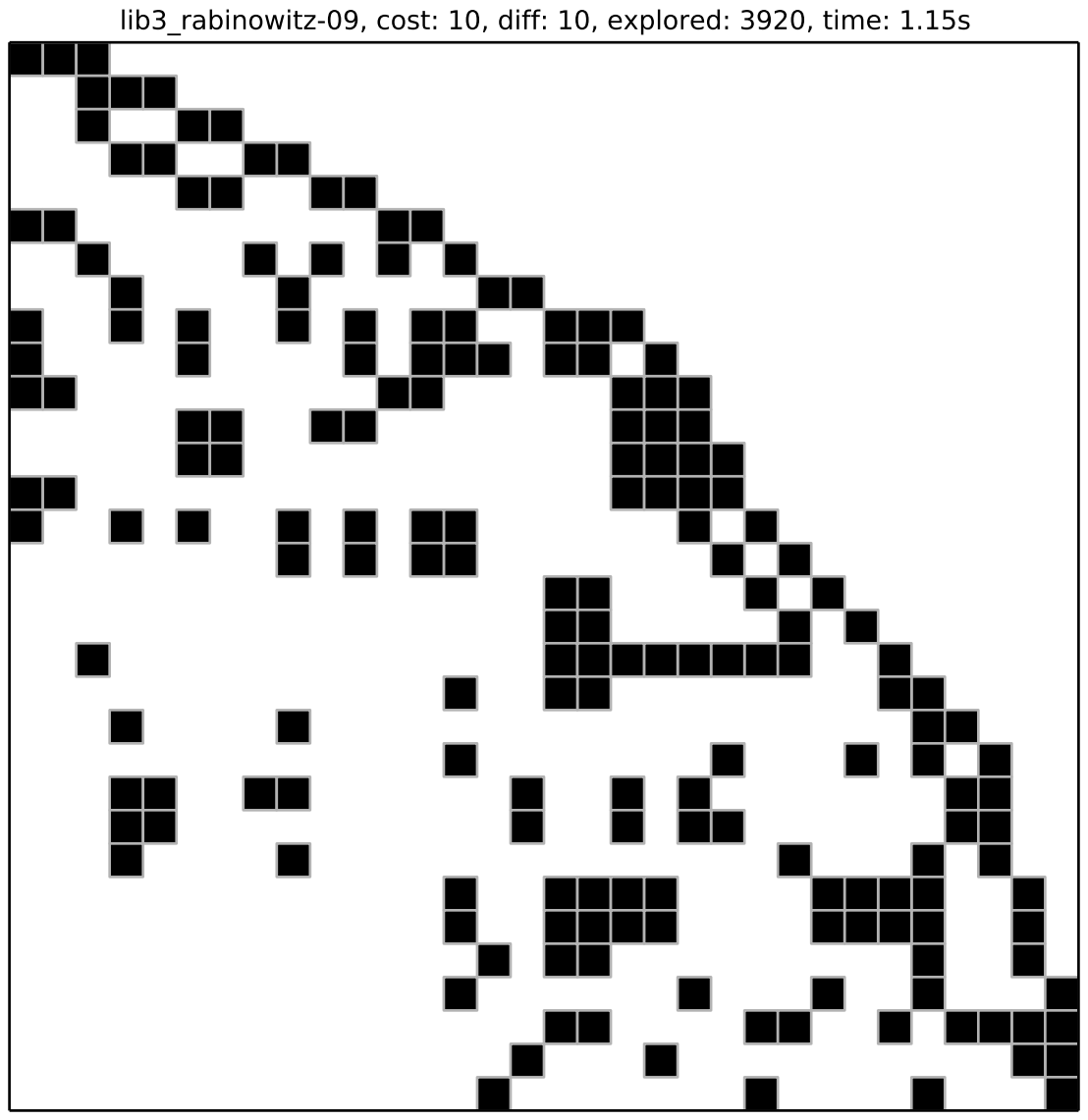
lib3_rabinowitz-08 32x32 (191) con: 16, var: 16

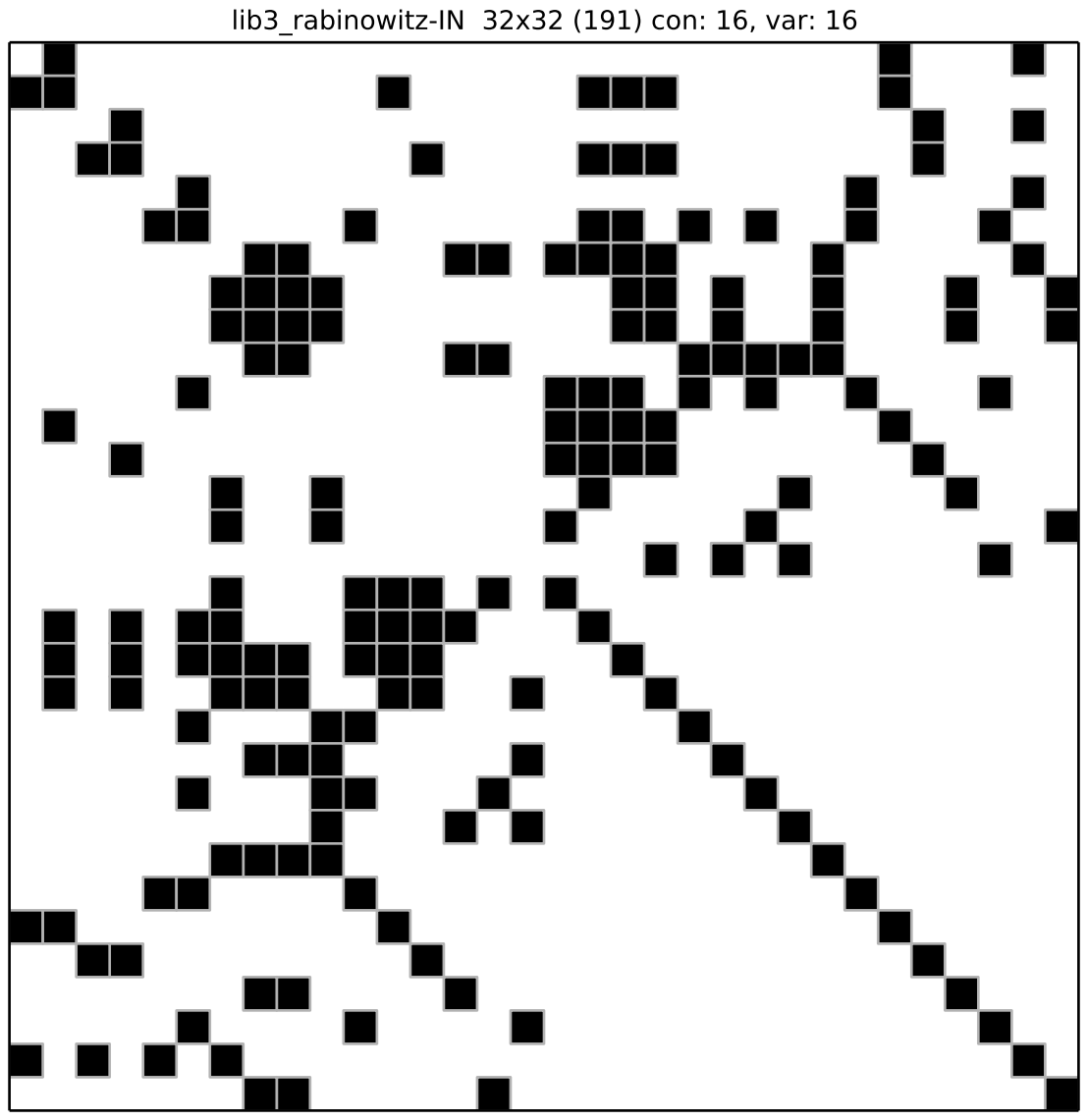



lib3_rabinowitz-08, cost: 10, diff: 10, explored: 3871, time: 1.13s

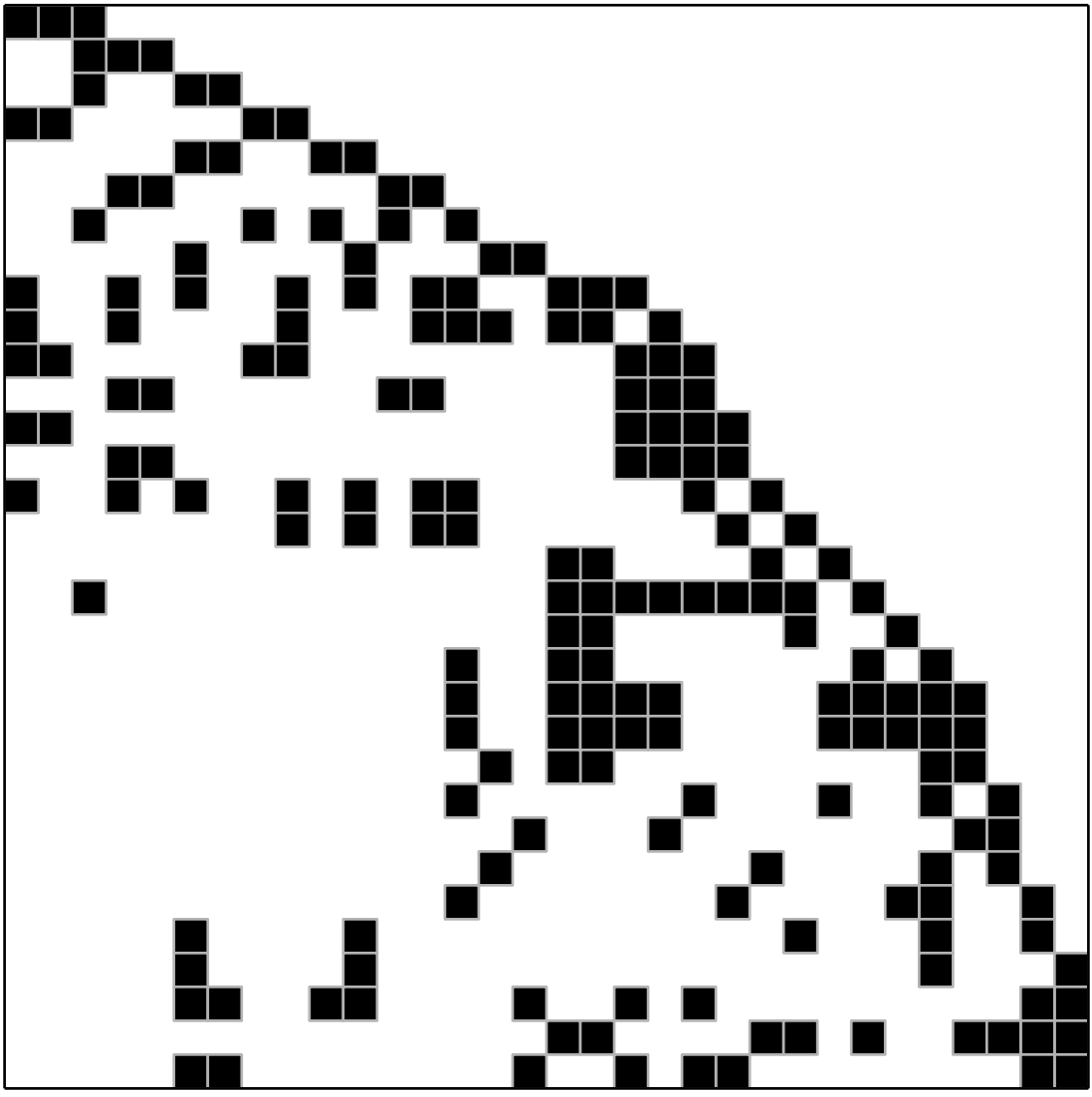
lib3_rabinowitz-09 32x32 (191) con: 16, var: 16



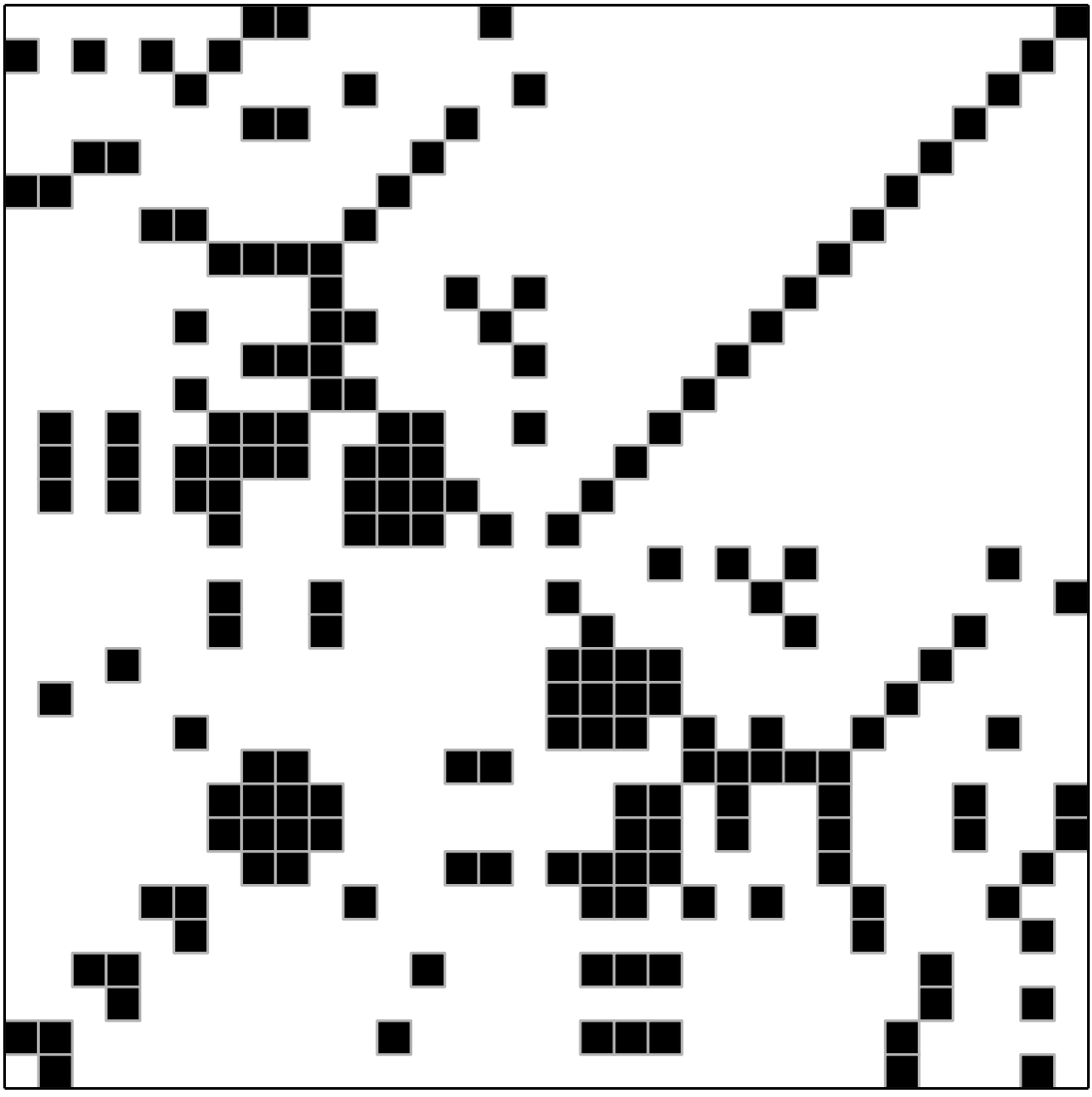

lib3_rabinowitz-09, cost: 10, diff: 10, explored: 3920, time: 1.15s

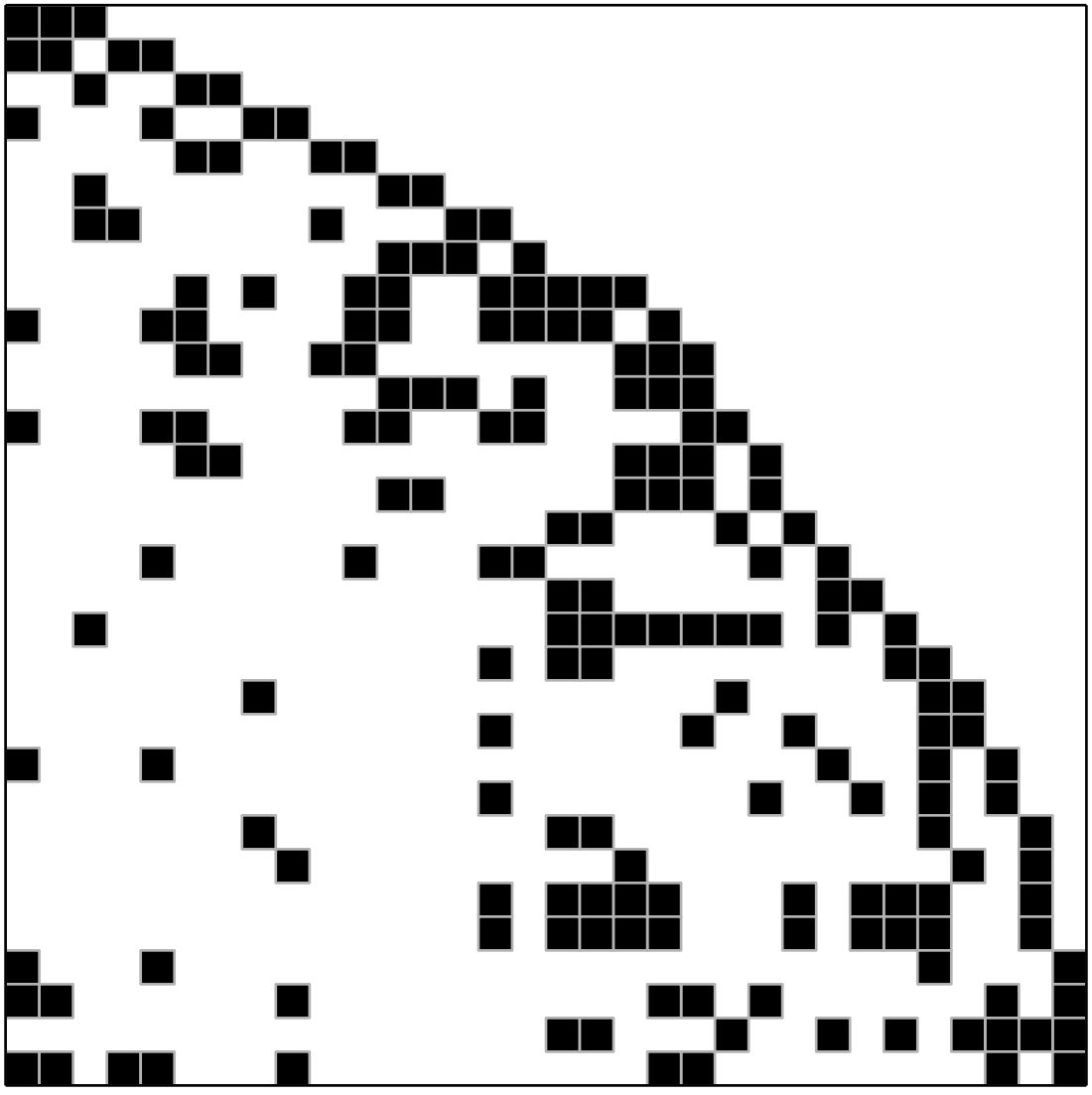

lib3_rabinowitz-IN 32x32 (191) con: 16, var: 16

lib3_rabinowitz-IN, cost: 10, diff: 10, explored: 3934, time: 1.15s

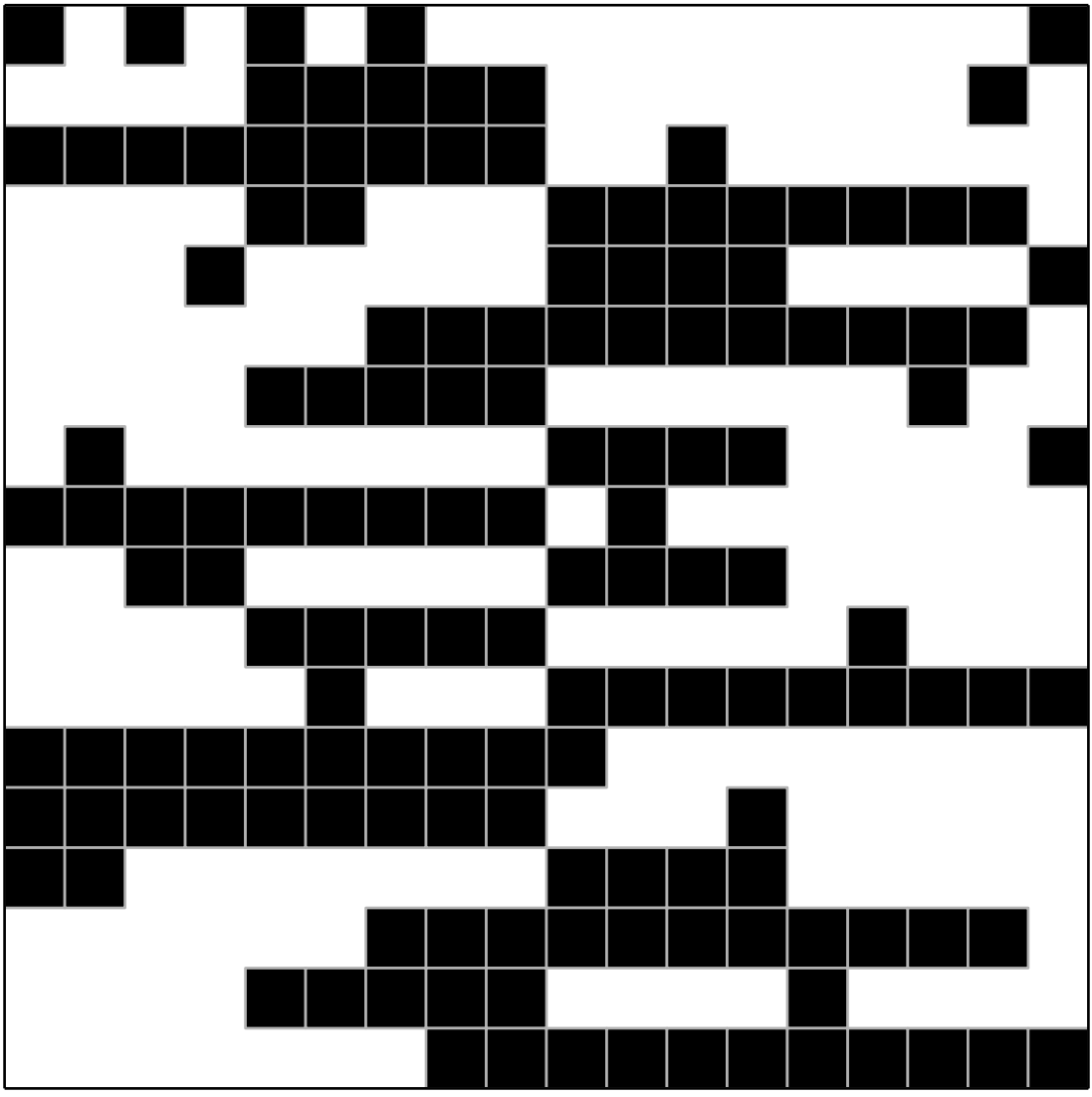


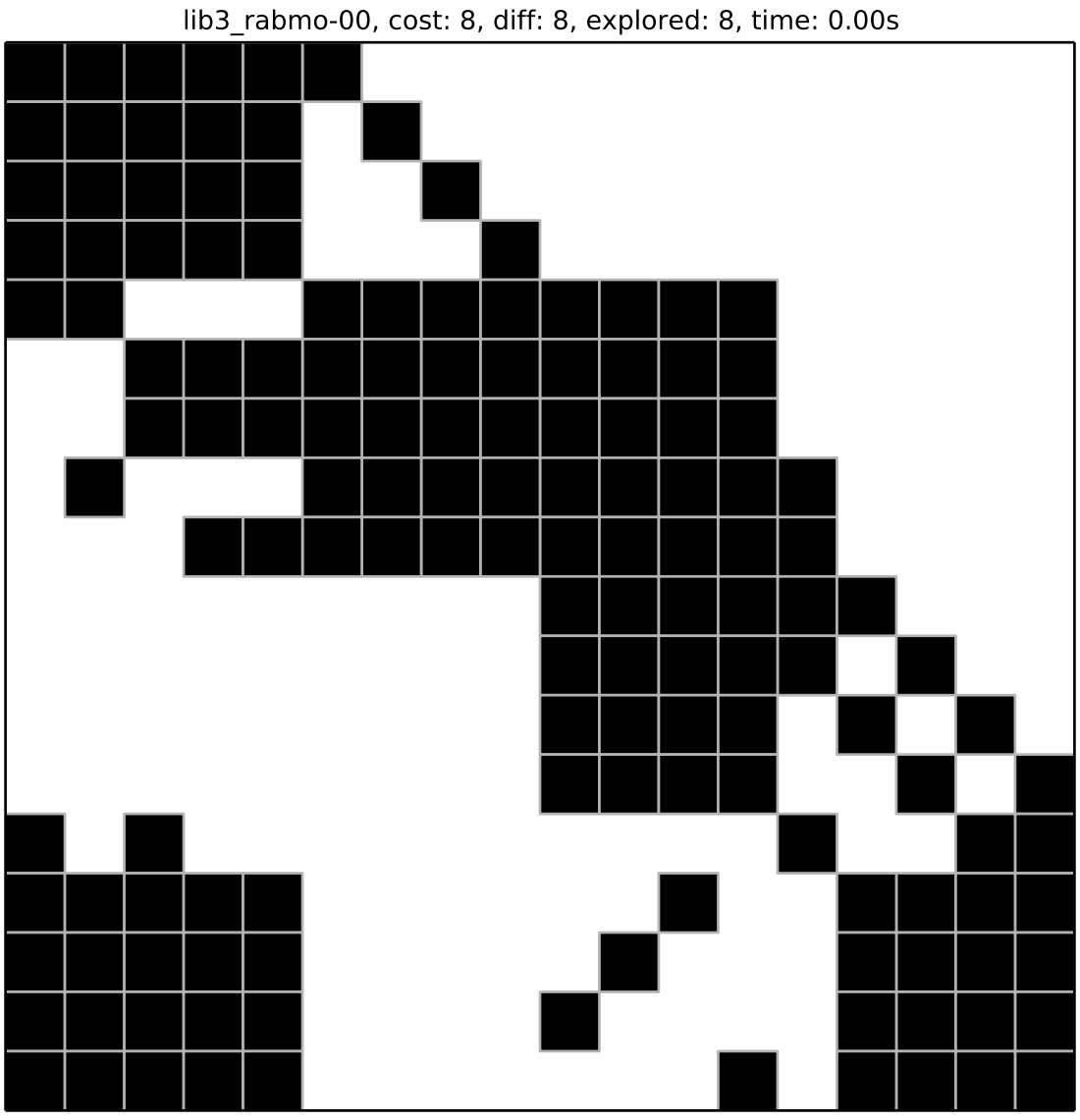
lib3_rabinowitz-RE 32x32 (191) con: 16, var: 16



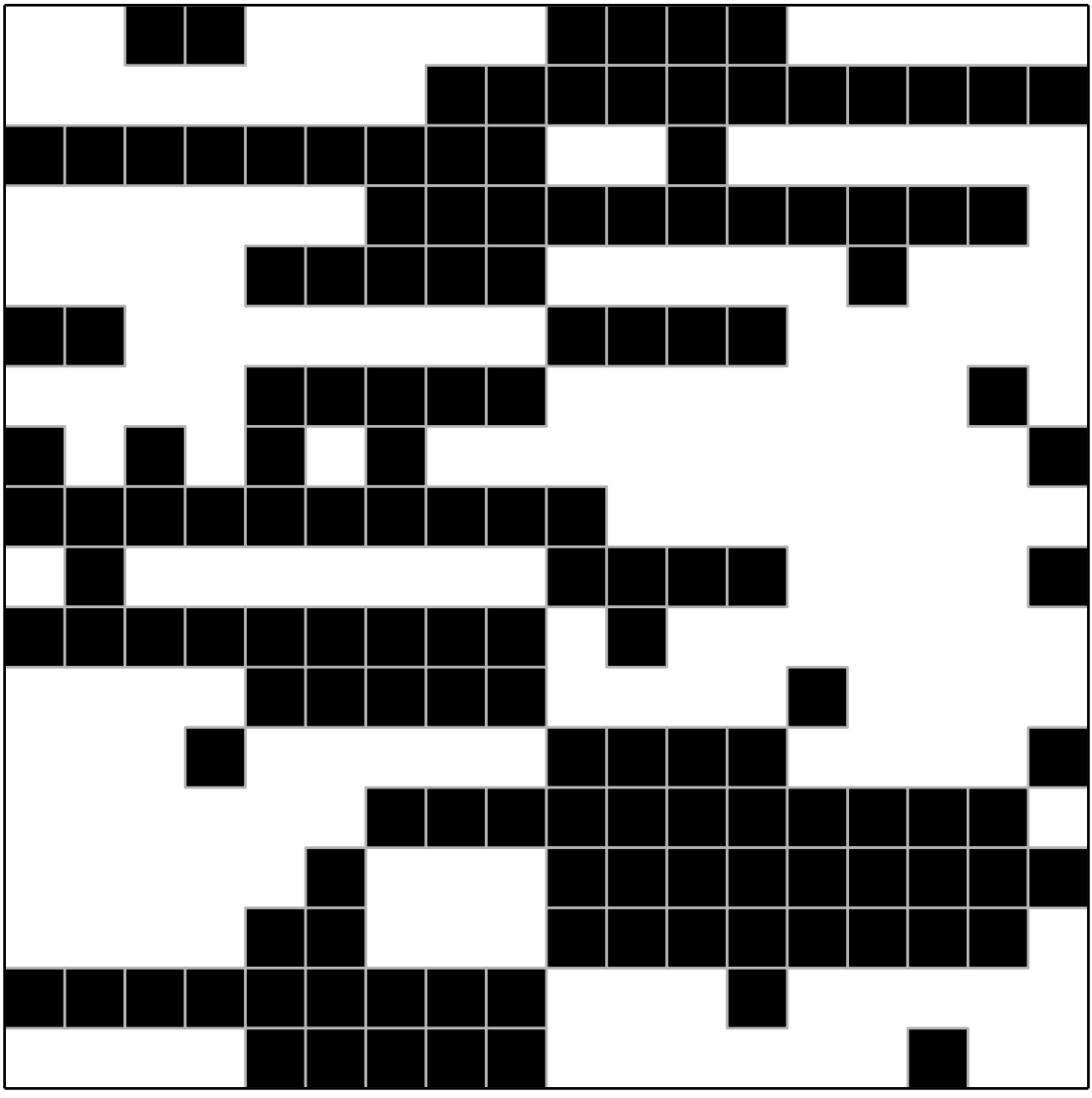

lib3_rabinowitz-RE, cost: 10, diff: 10, explored: 3950, time: 1.15s

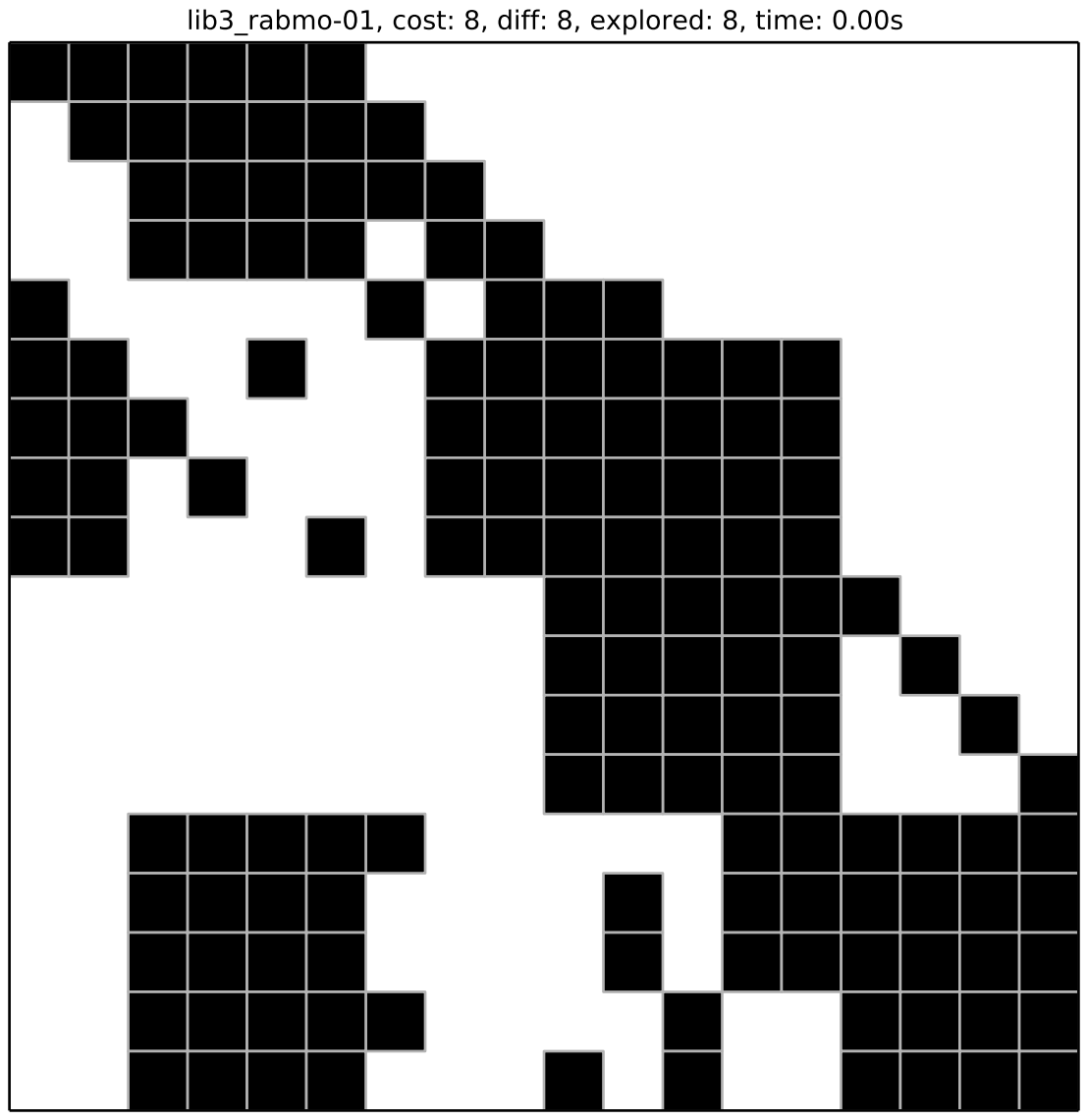
lib3_rabmo-00 18x18 (146) con: 9, var: 9




lib3_rabmo-00, cost: 8, diff: 8, explored: 8, time: 0.00s

lib3_rabmo-01 18x18 (146) con: 9, var: 9

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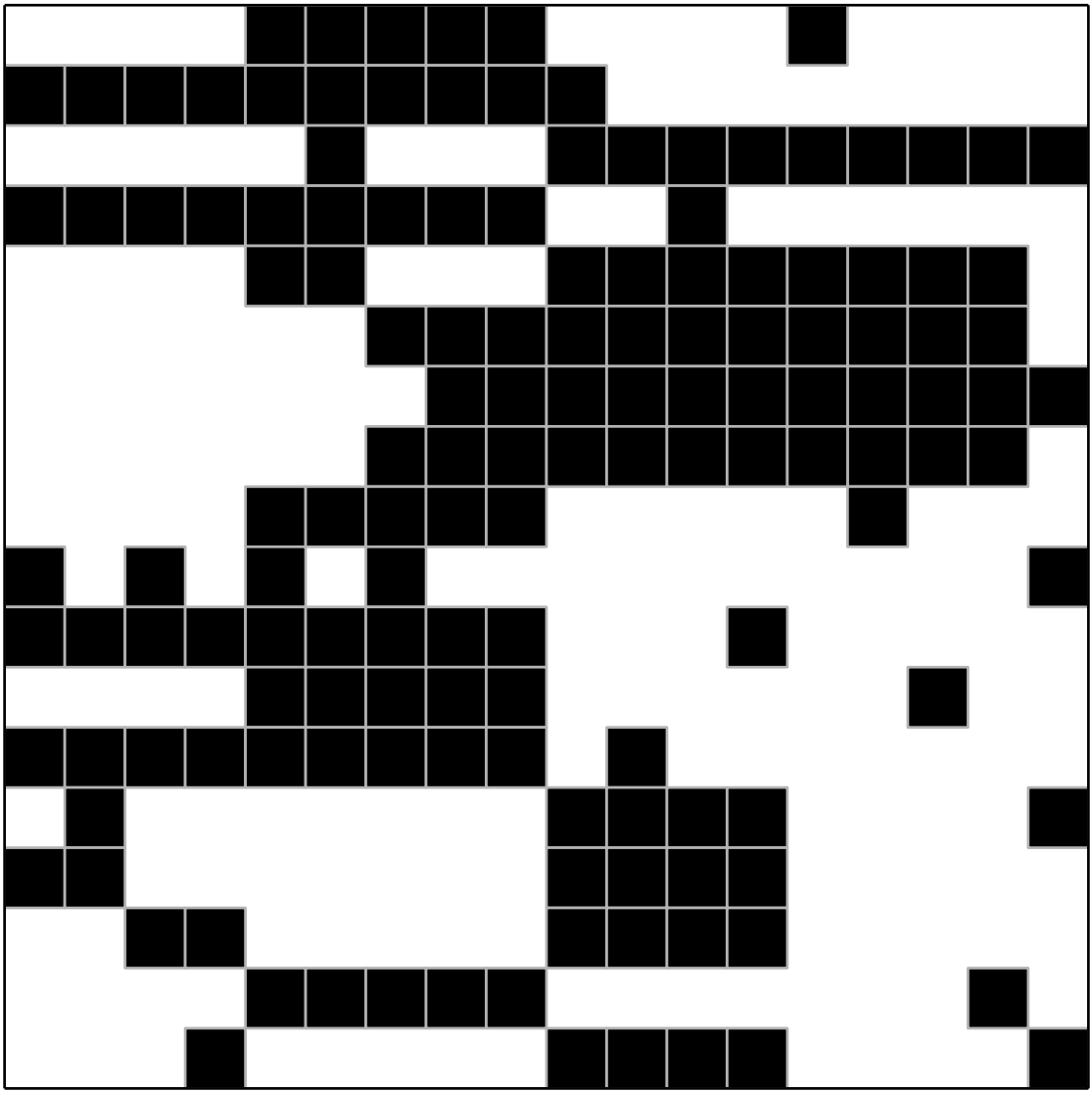
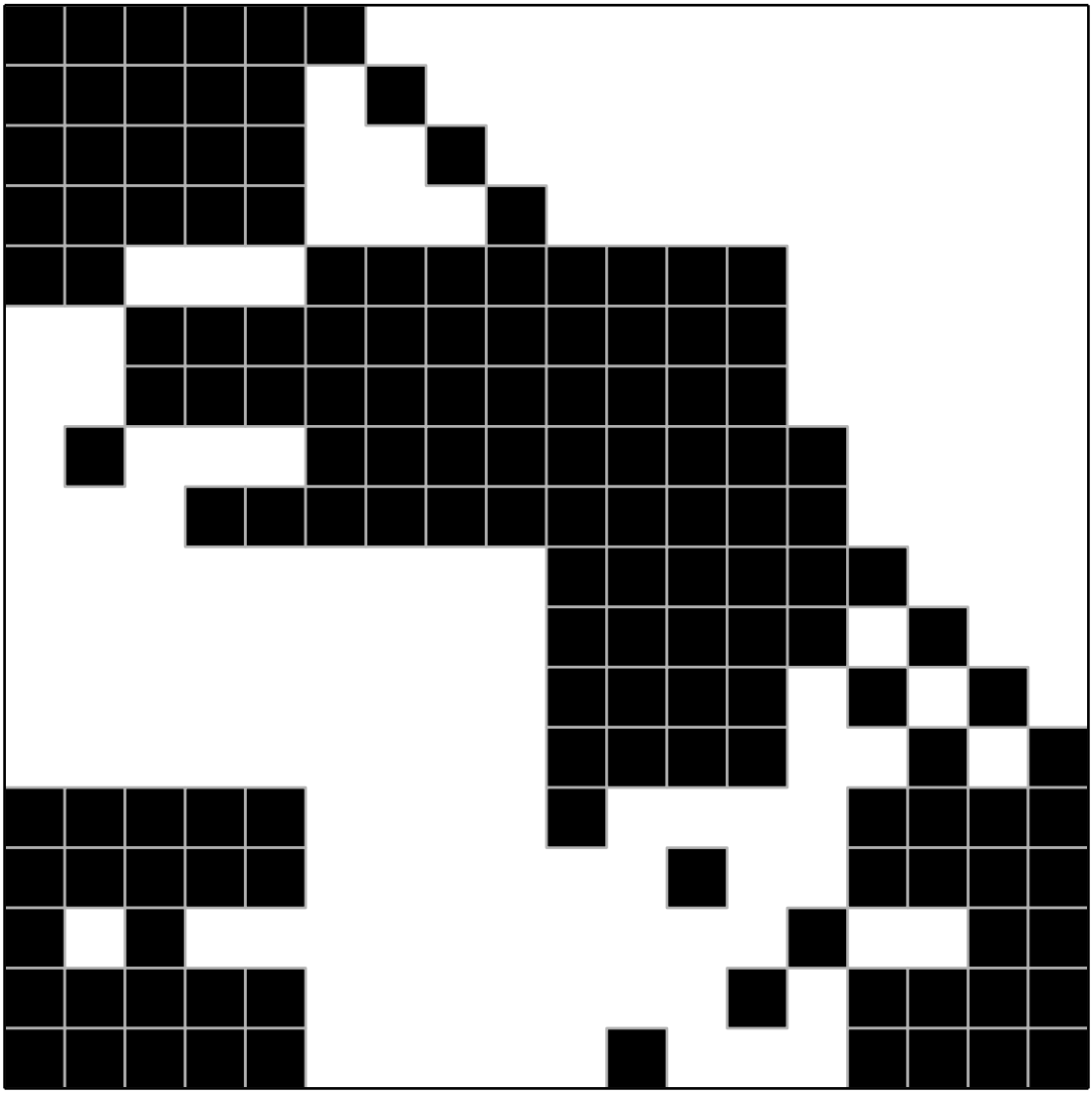
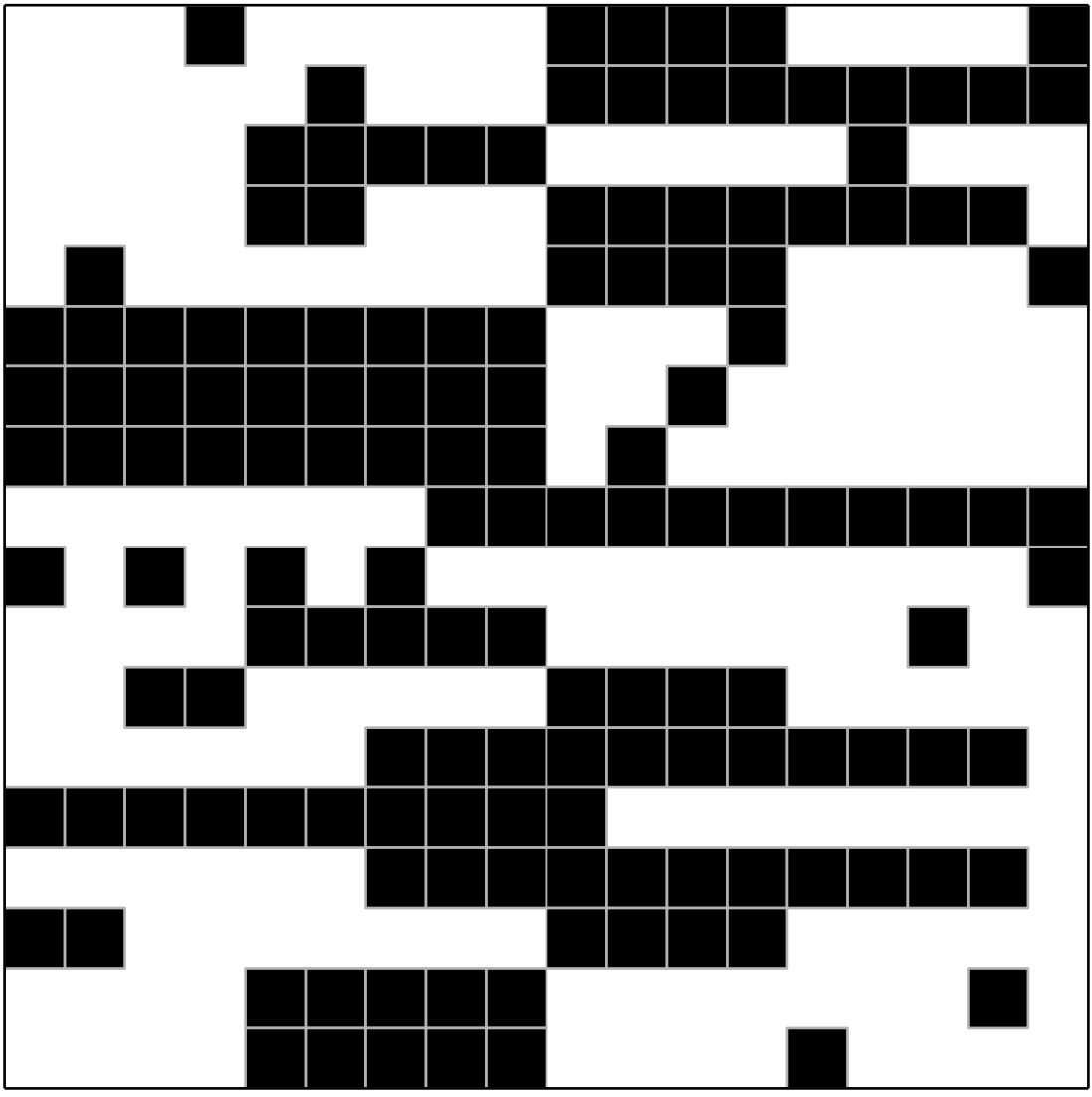
lib3_rabmo-02 18x18 (146) con: 9, var: 9



lib3_rabmo-02, cost: 8, diff: 8, explored: 8, time: 0.00s



lib3_rabmo-03 18x18 (146) con: 9, var: 9



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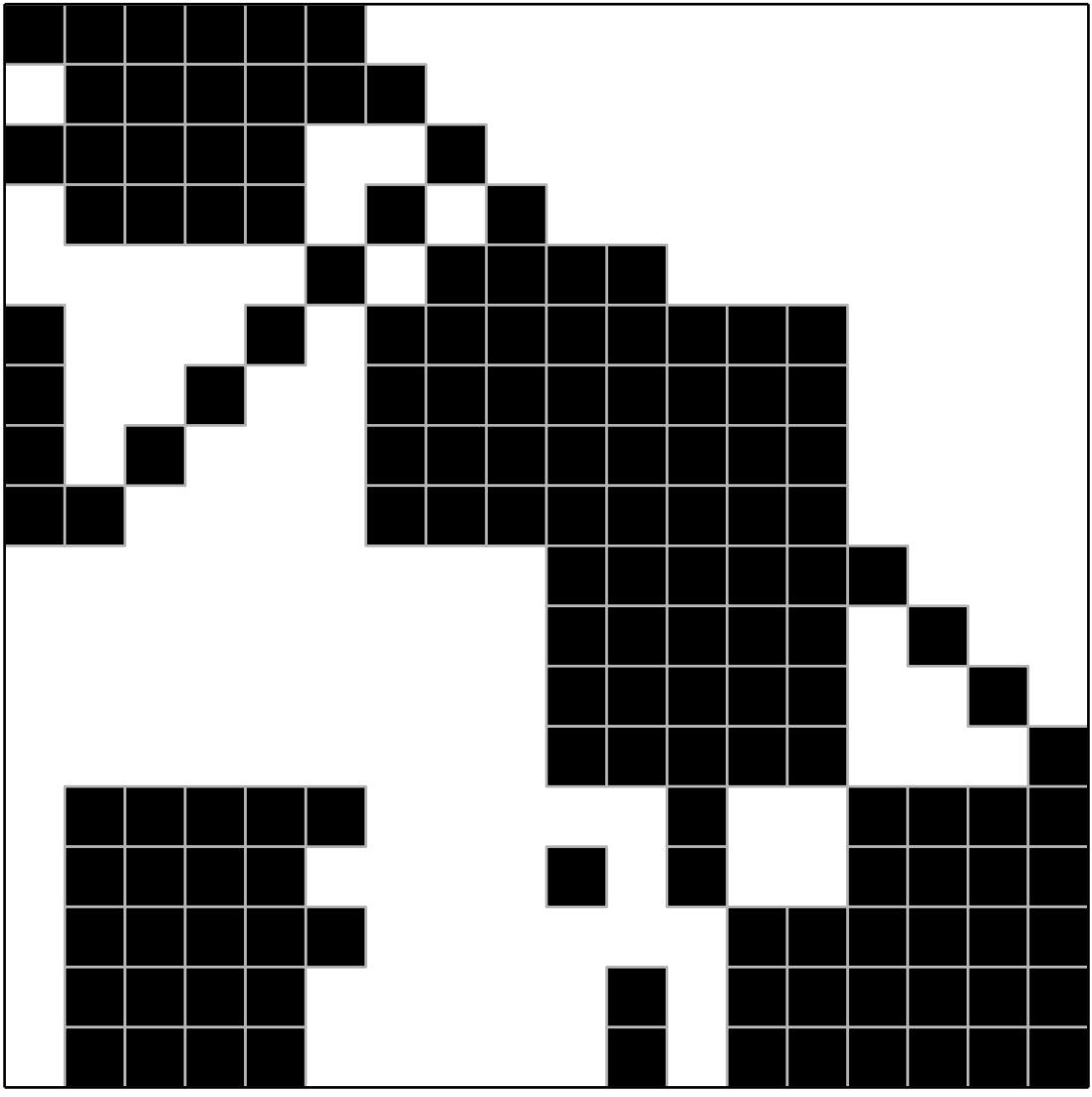
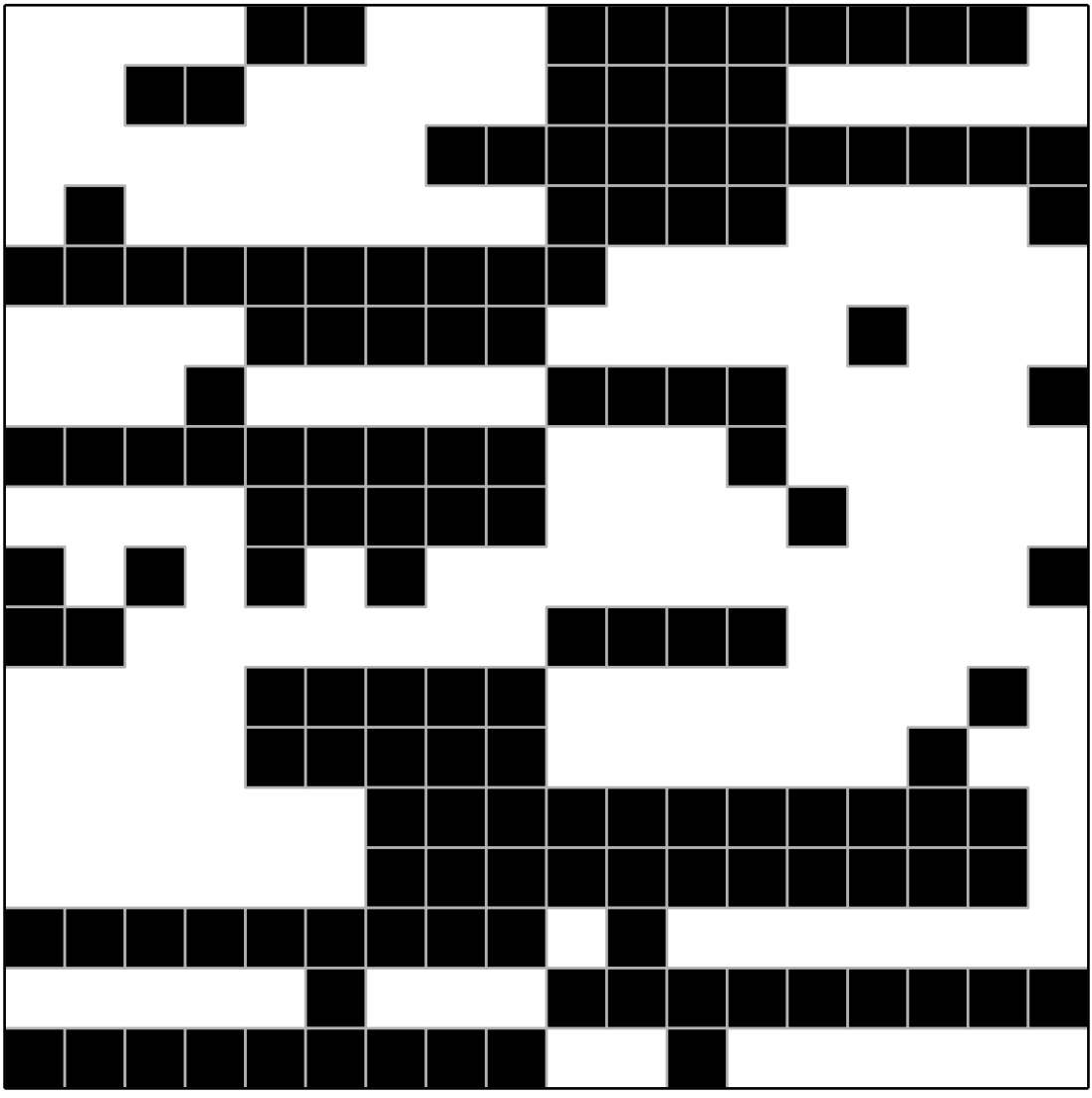


lib3_rabmo-04 18x18 (146) con: 9, var: 9



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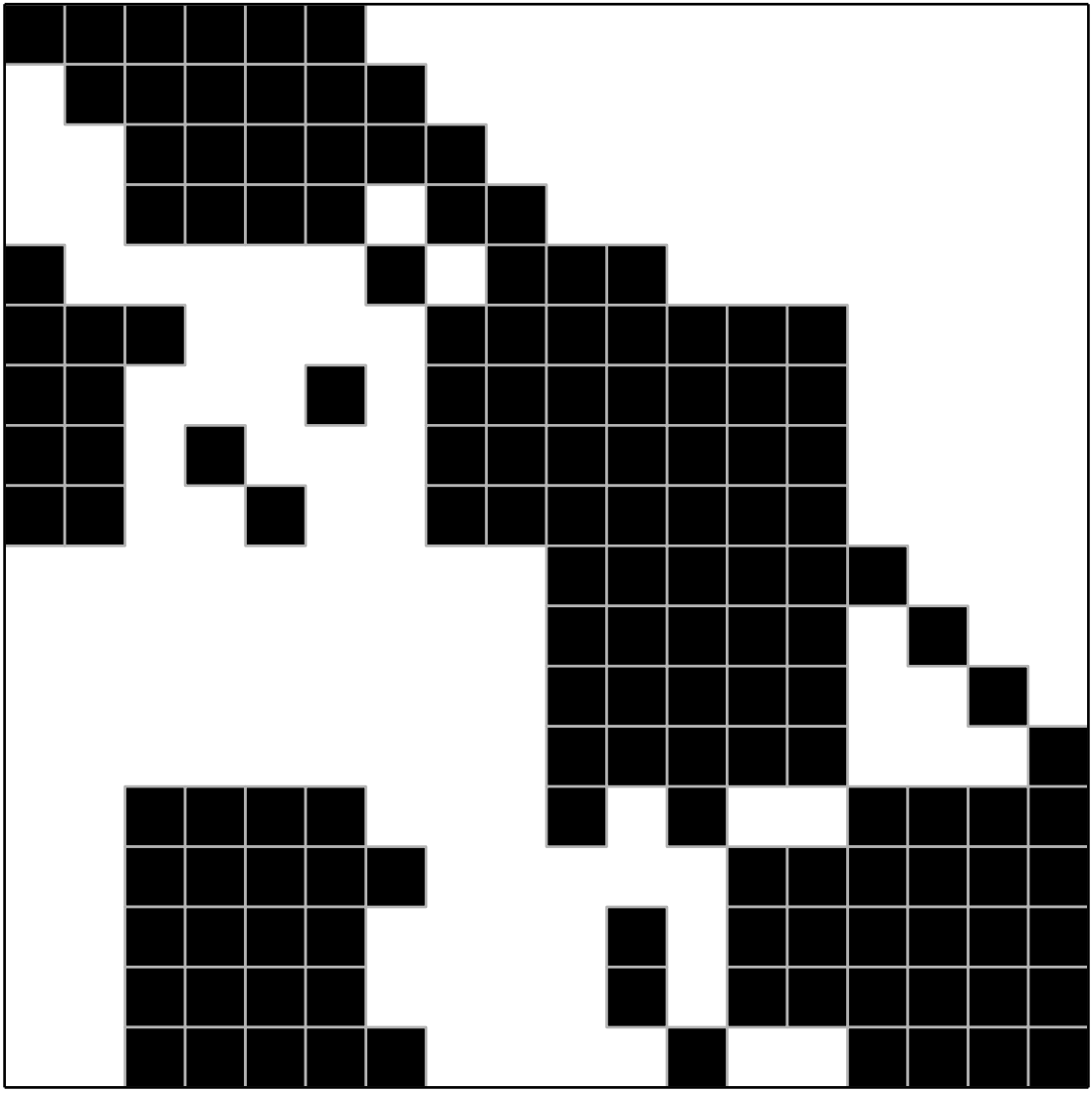
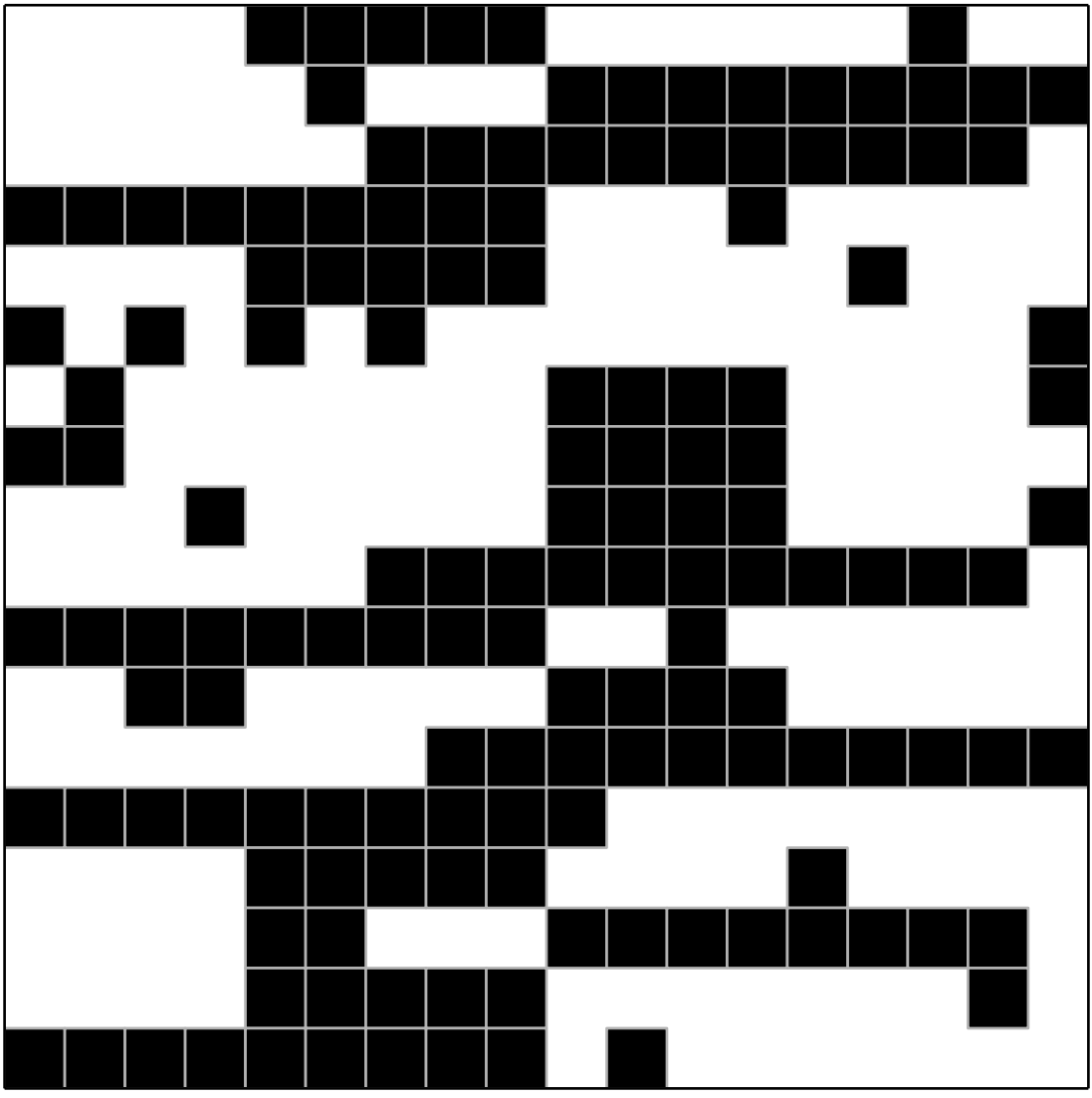


lib3_rabmo-05 18x18 (146) con: 9, var: 9



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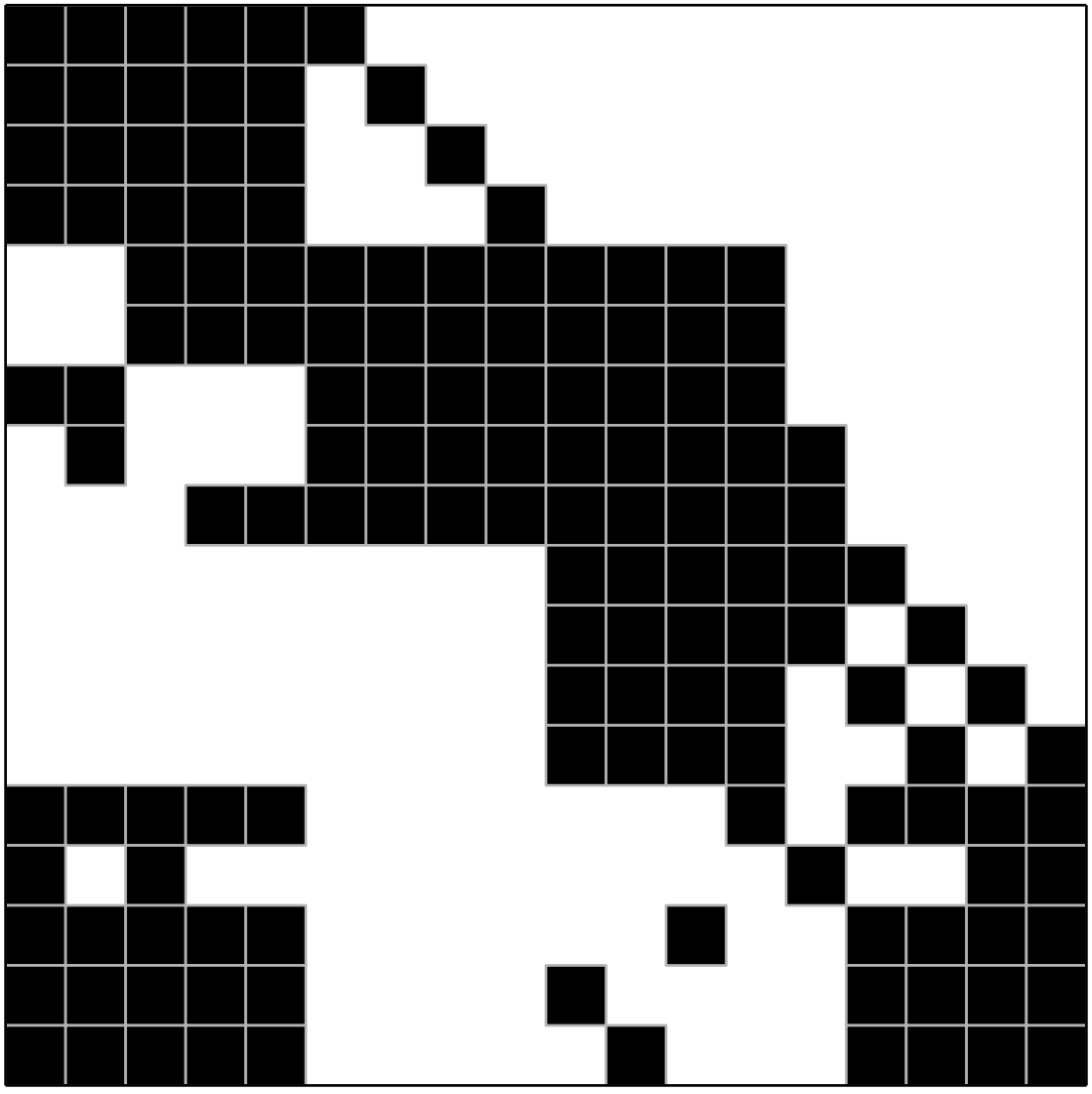
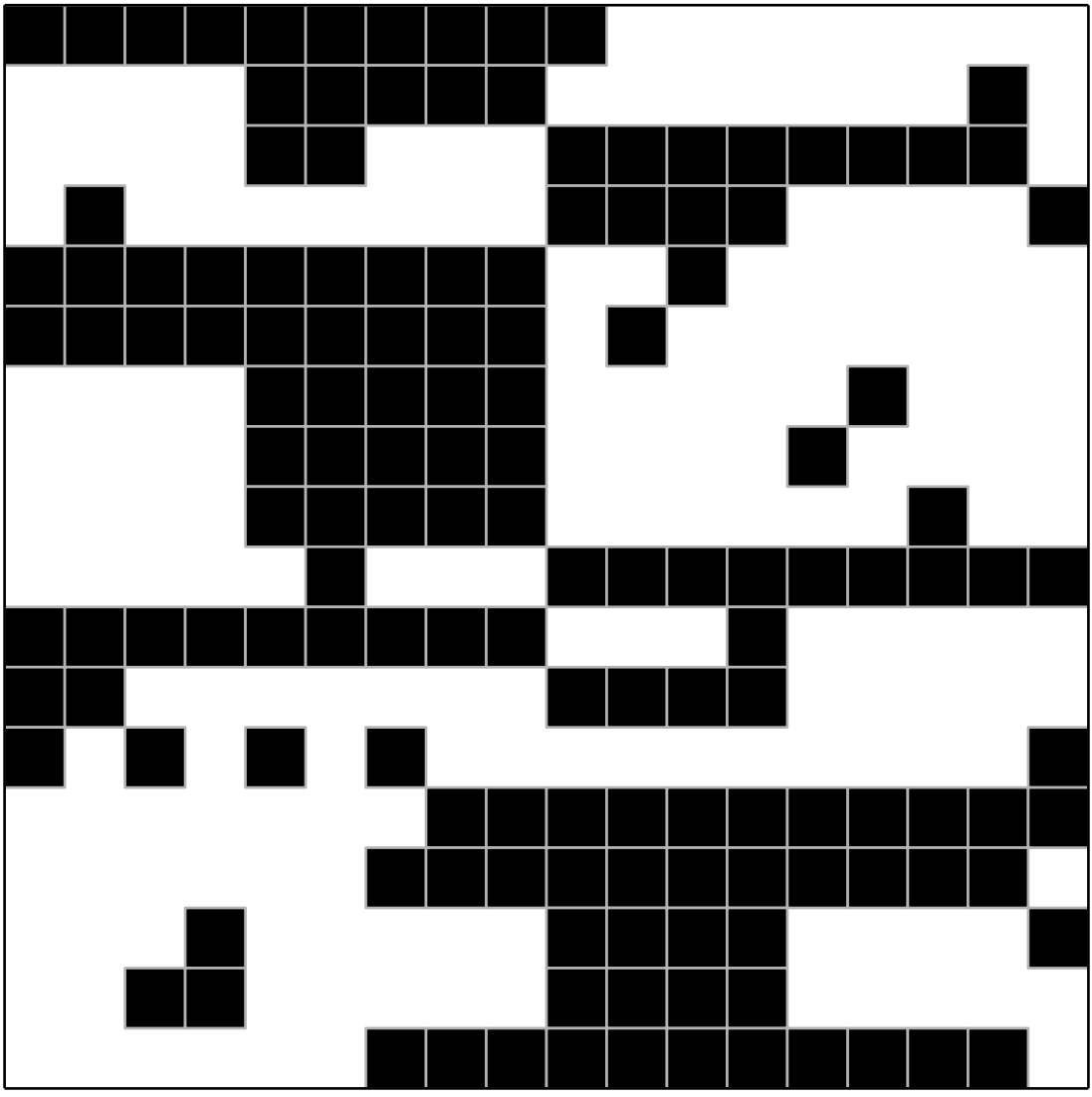
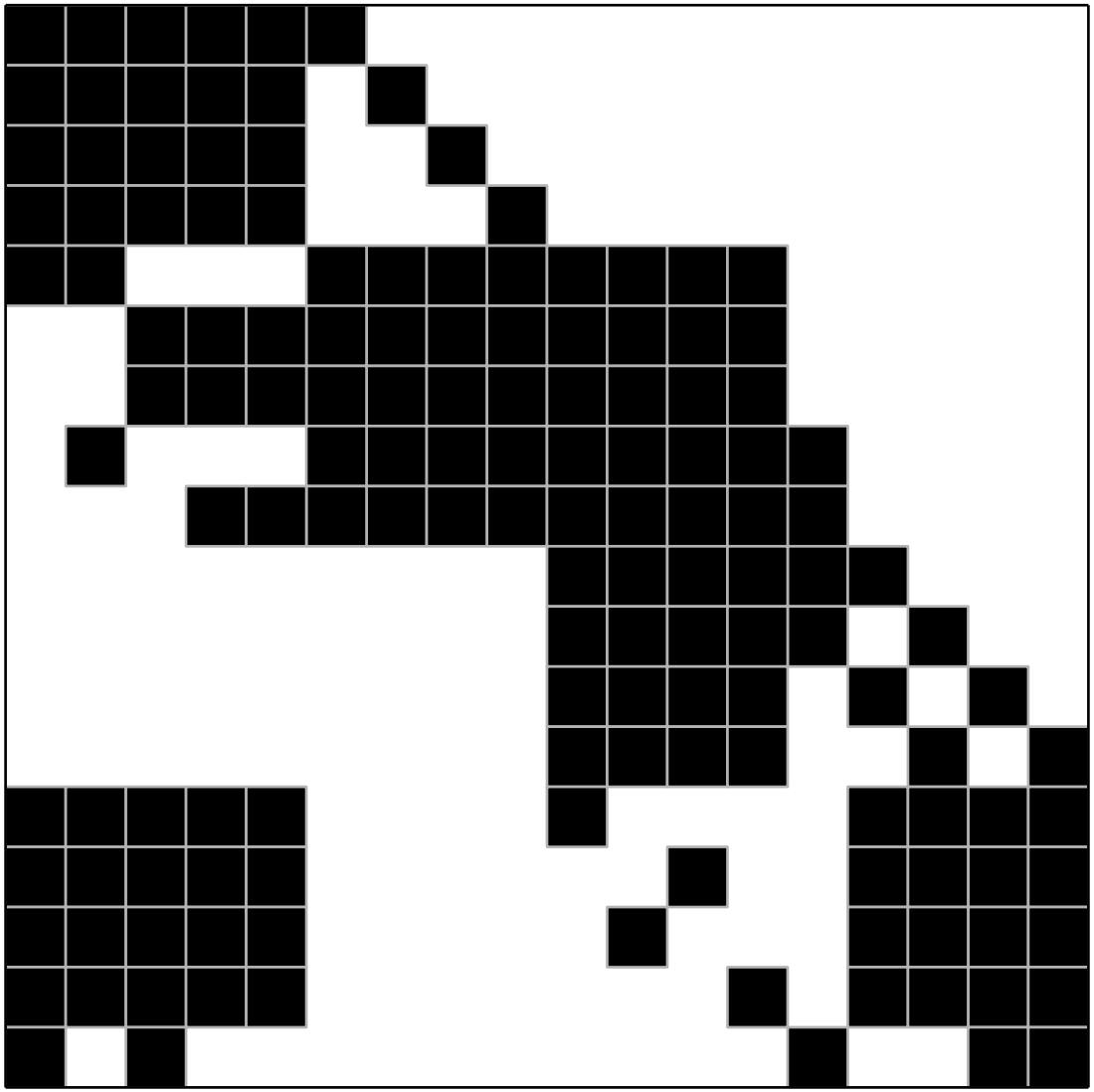


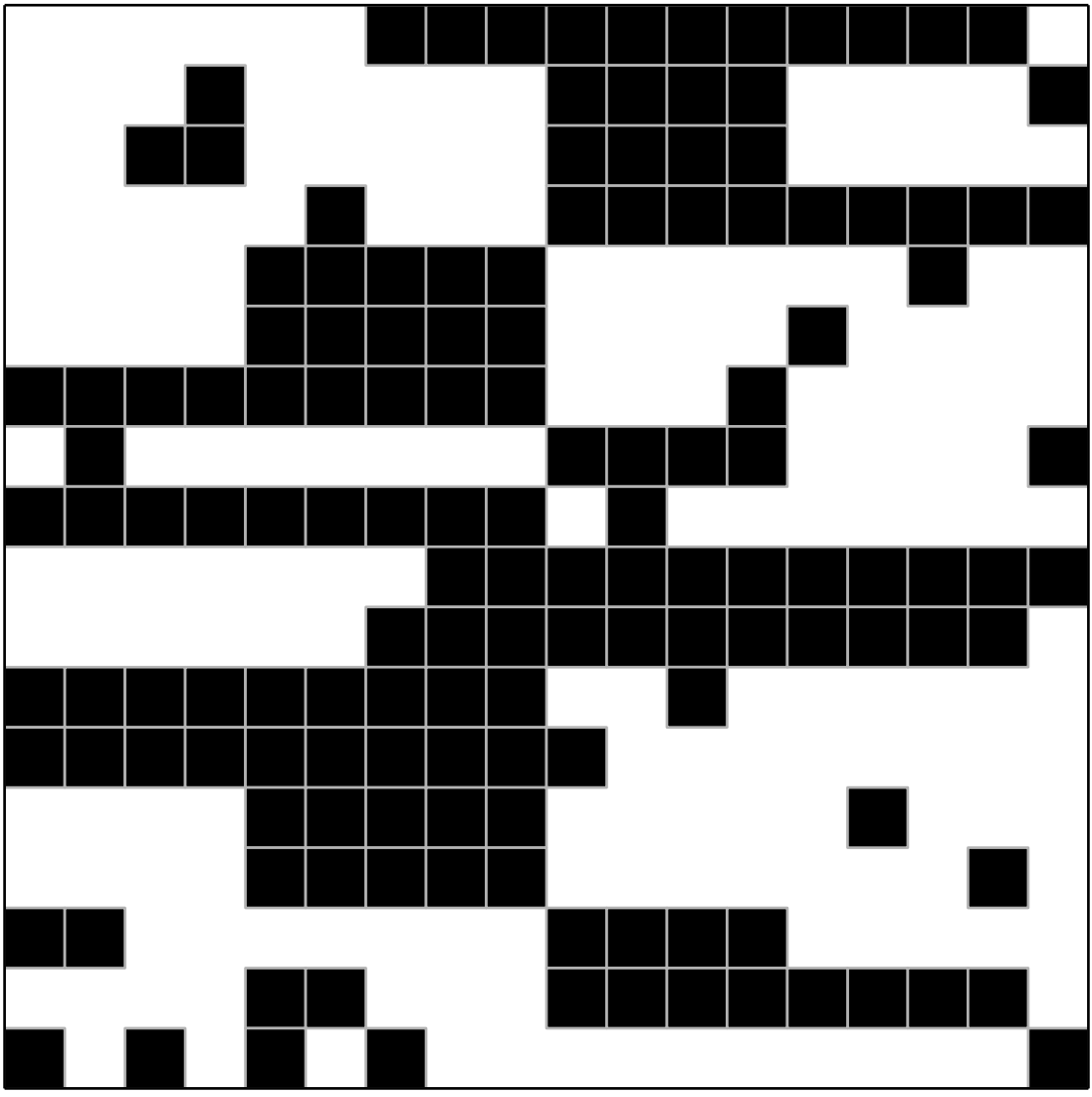
lib3_rabmo-06 18x18 (146) con: 9, var: 9



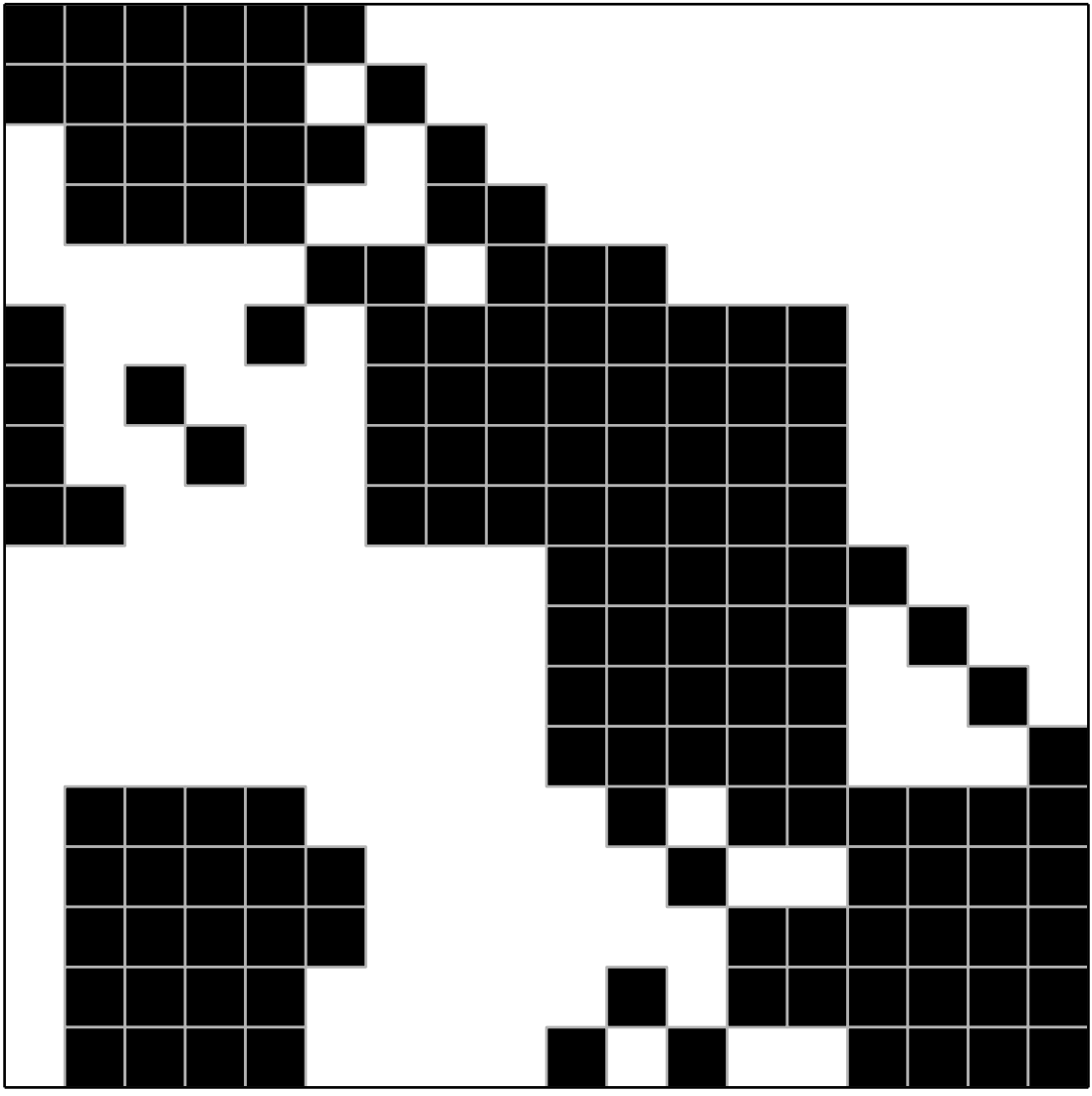
lib3_rabmo-06, cost: 8, diff: 8, explored: 8, time: 0.00s



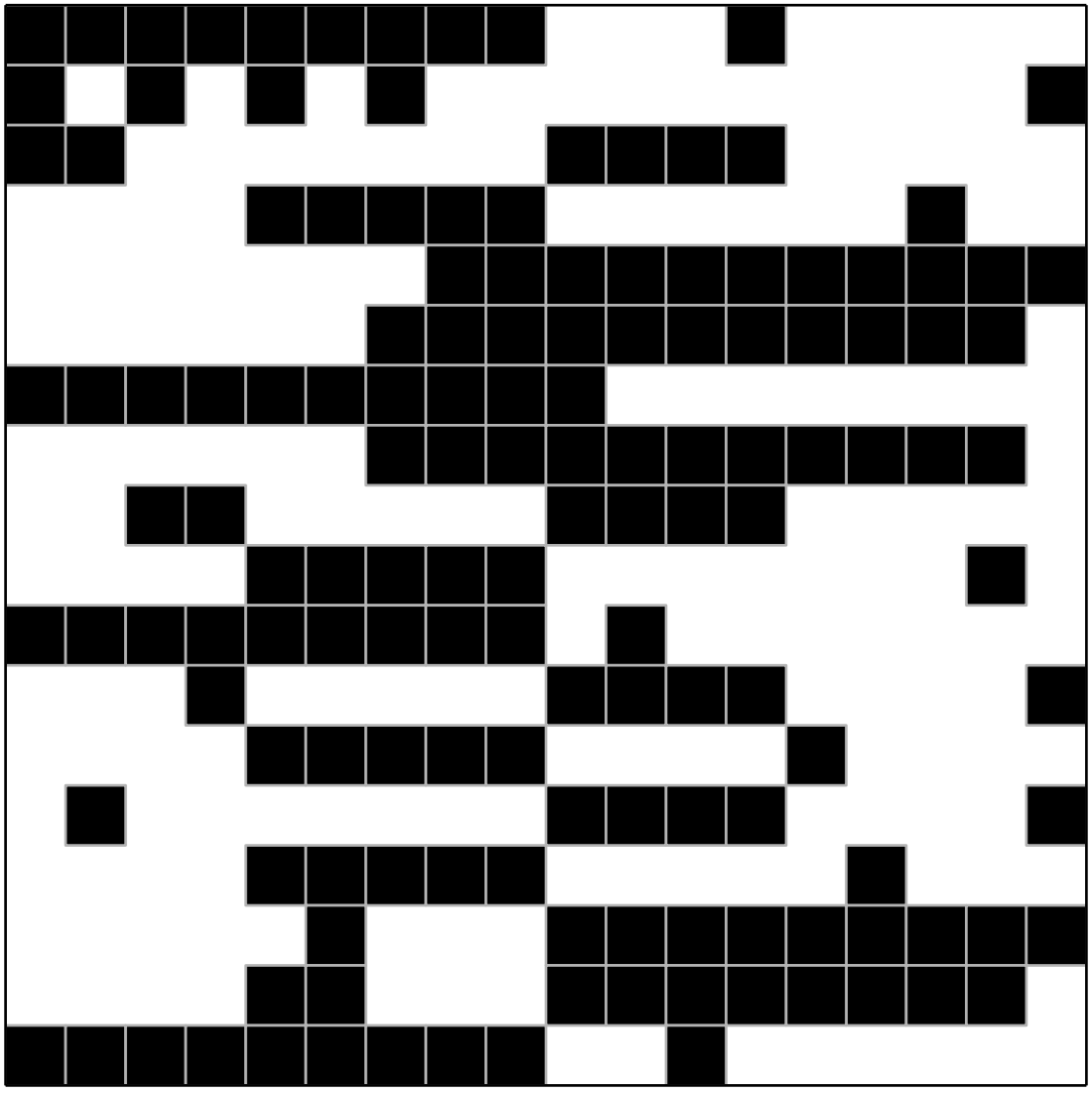
lib3_rabmo-07 18x18 (146) con: 9, var: 9



lib3_rabmo-07, cost: 8, diff: 8, explored: 8, time: 0.00s



lib3_rabmo-08 18x18 (146) con: 9, var: 9



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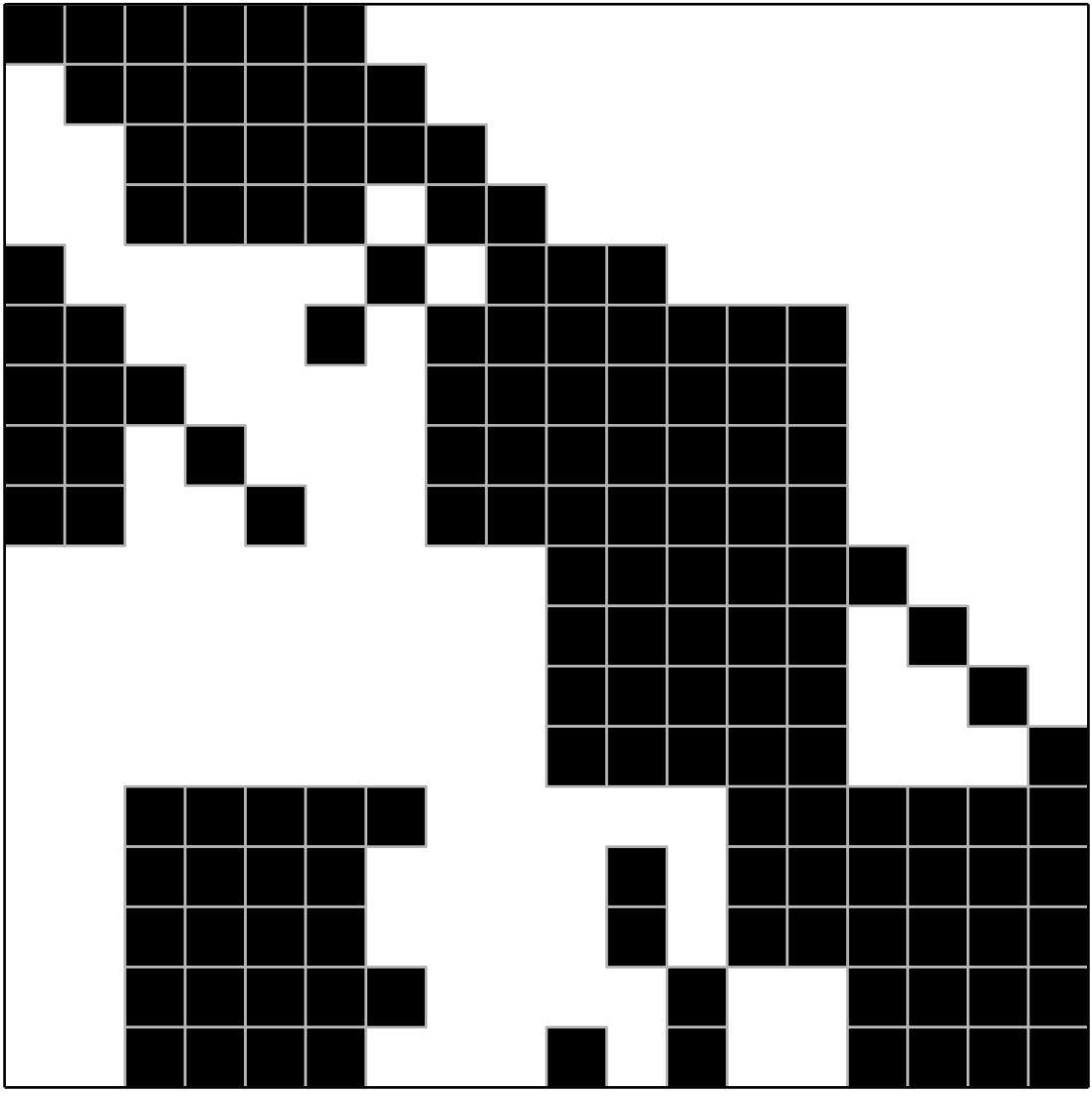
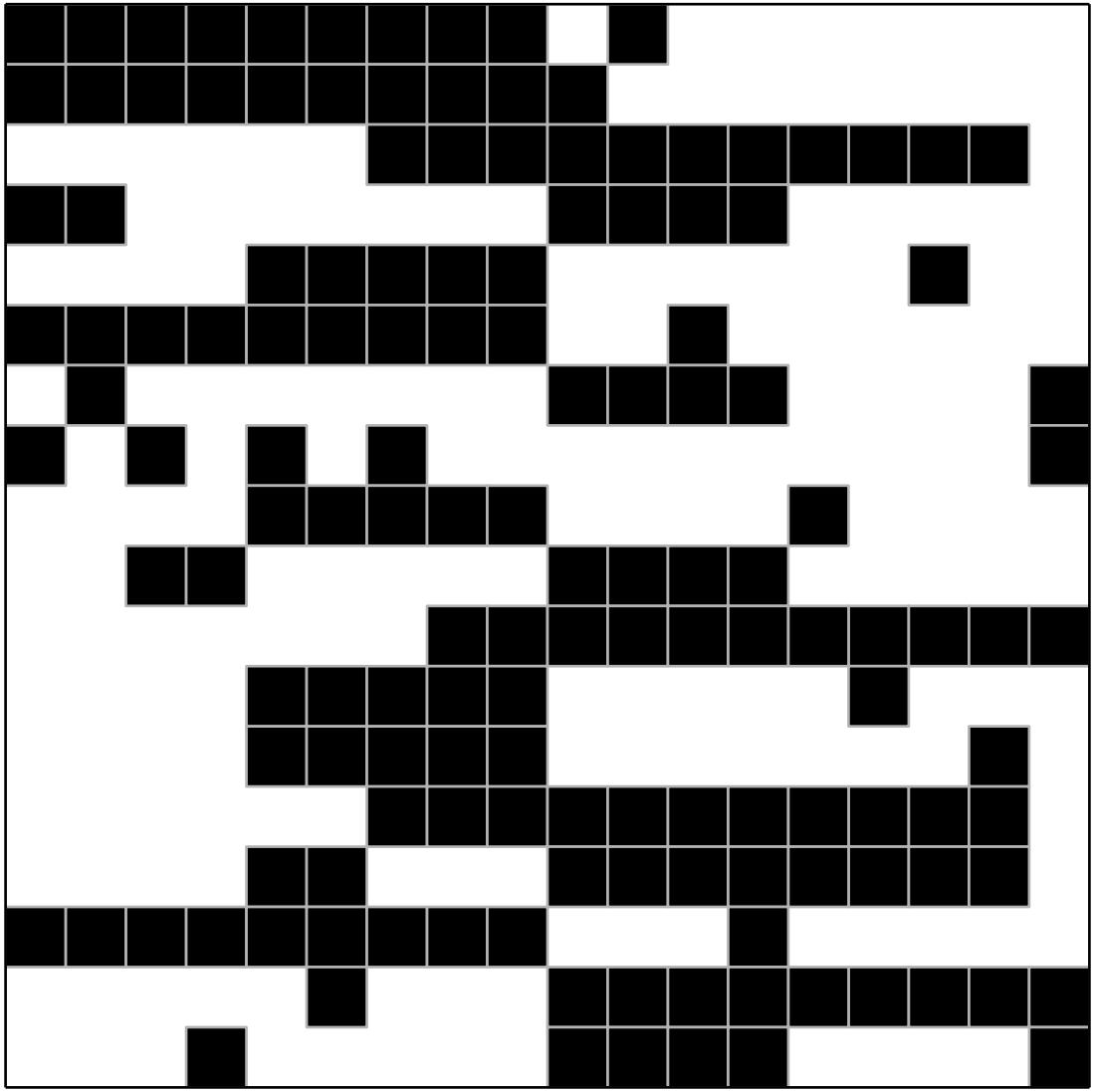


lib3_rabmo-09 18x18 (146) con: 9, var: 9



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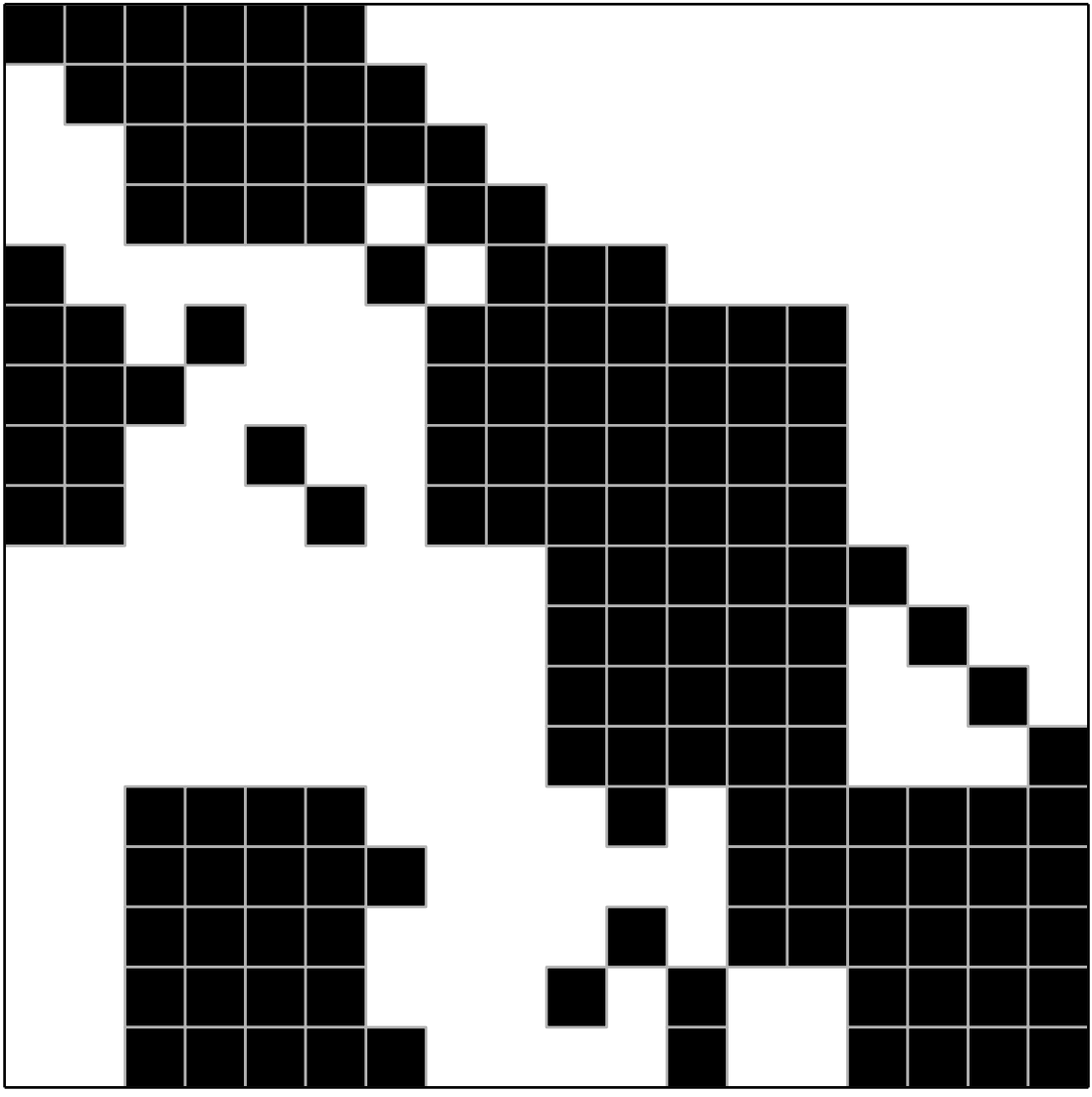
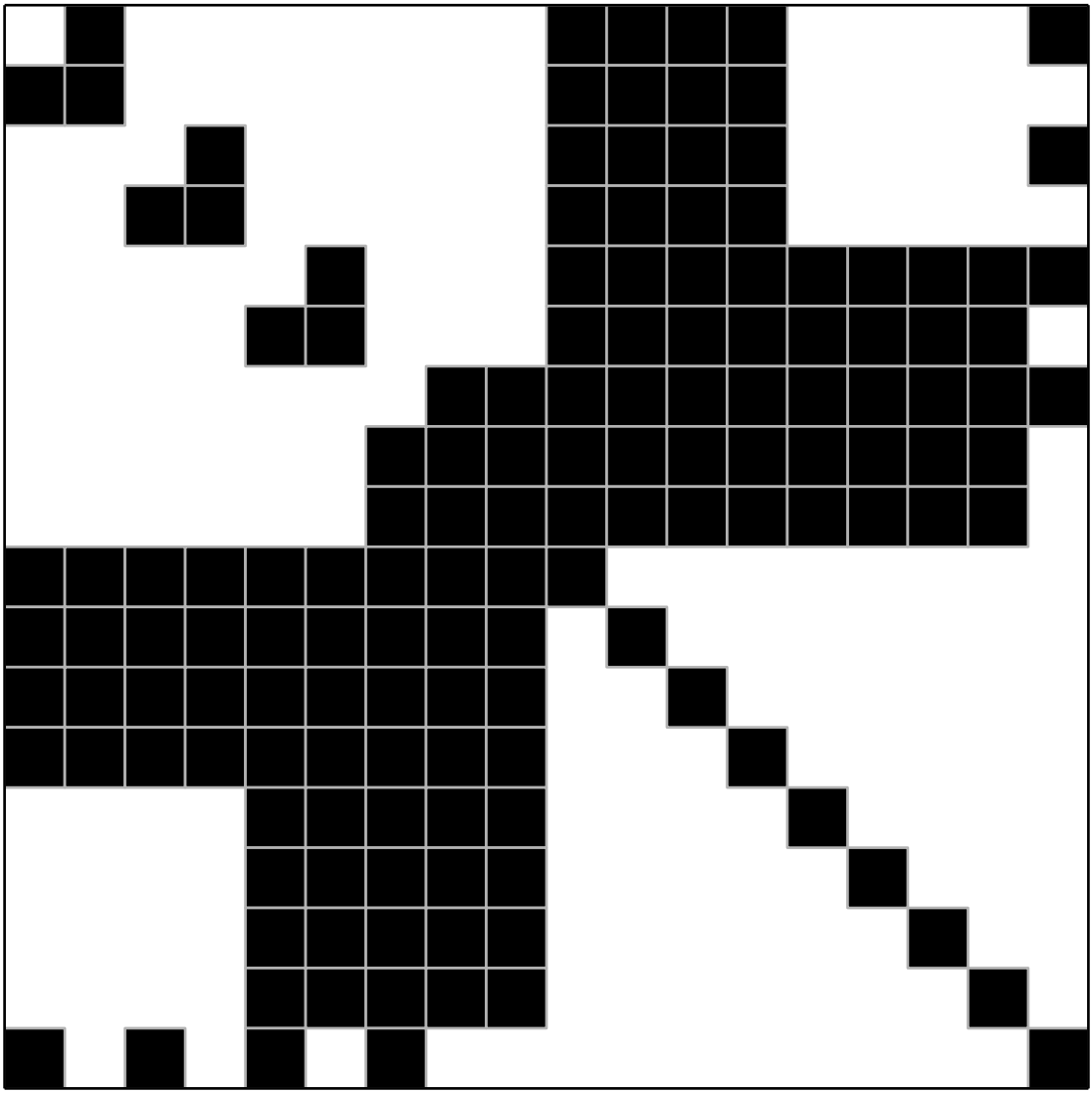
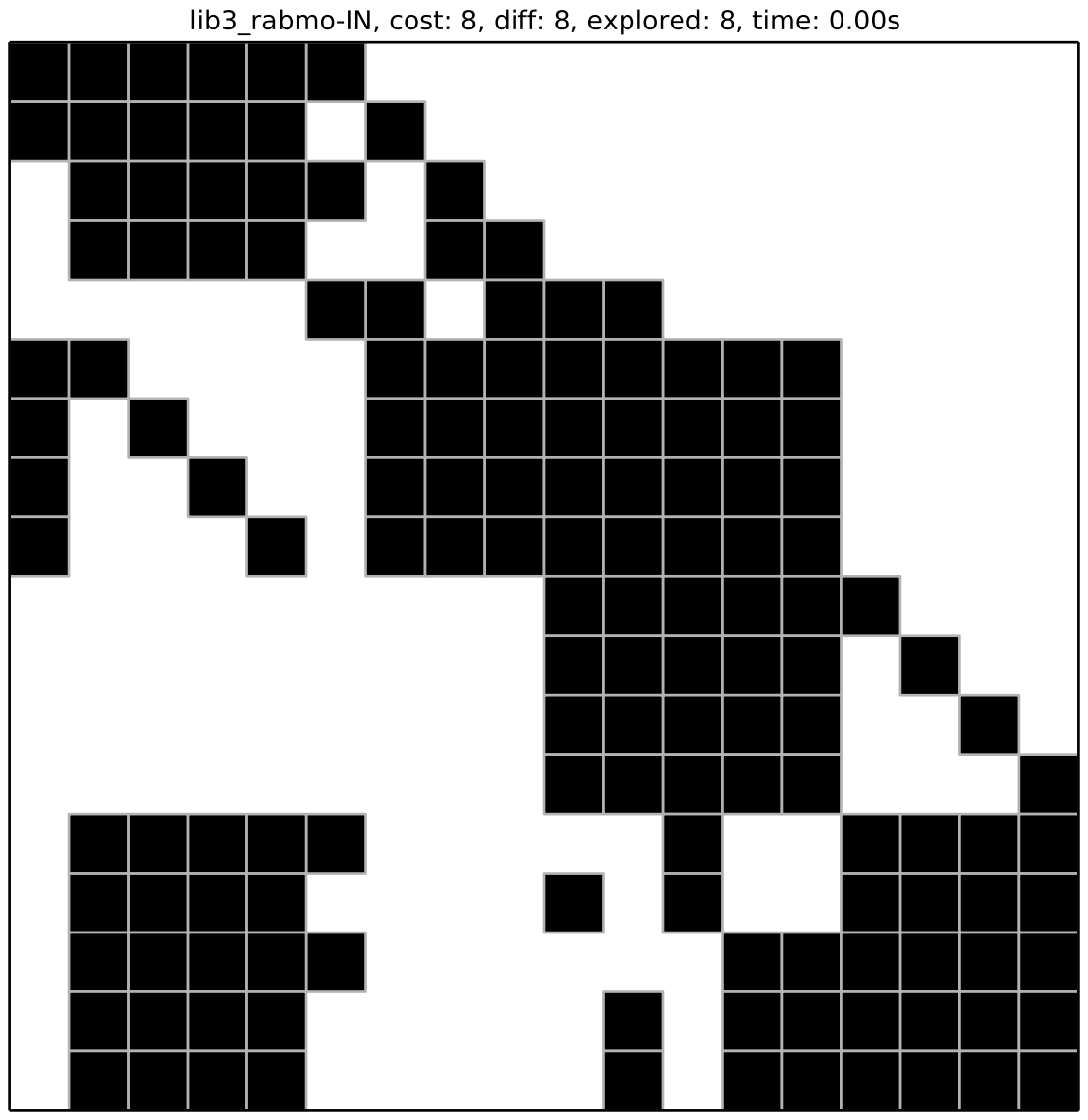


lib3_rabmo-IN 18x18 (146) con: 9, var: 9

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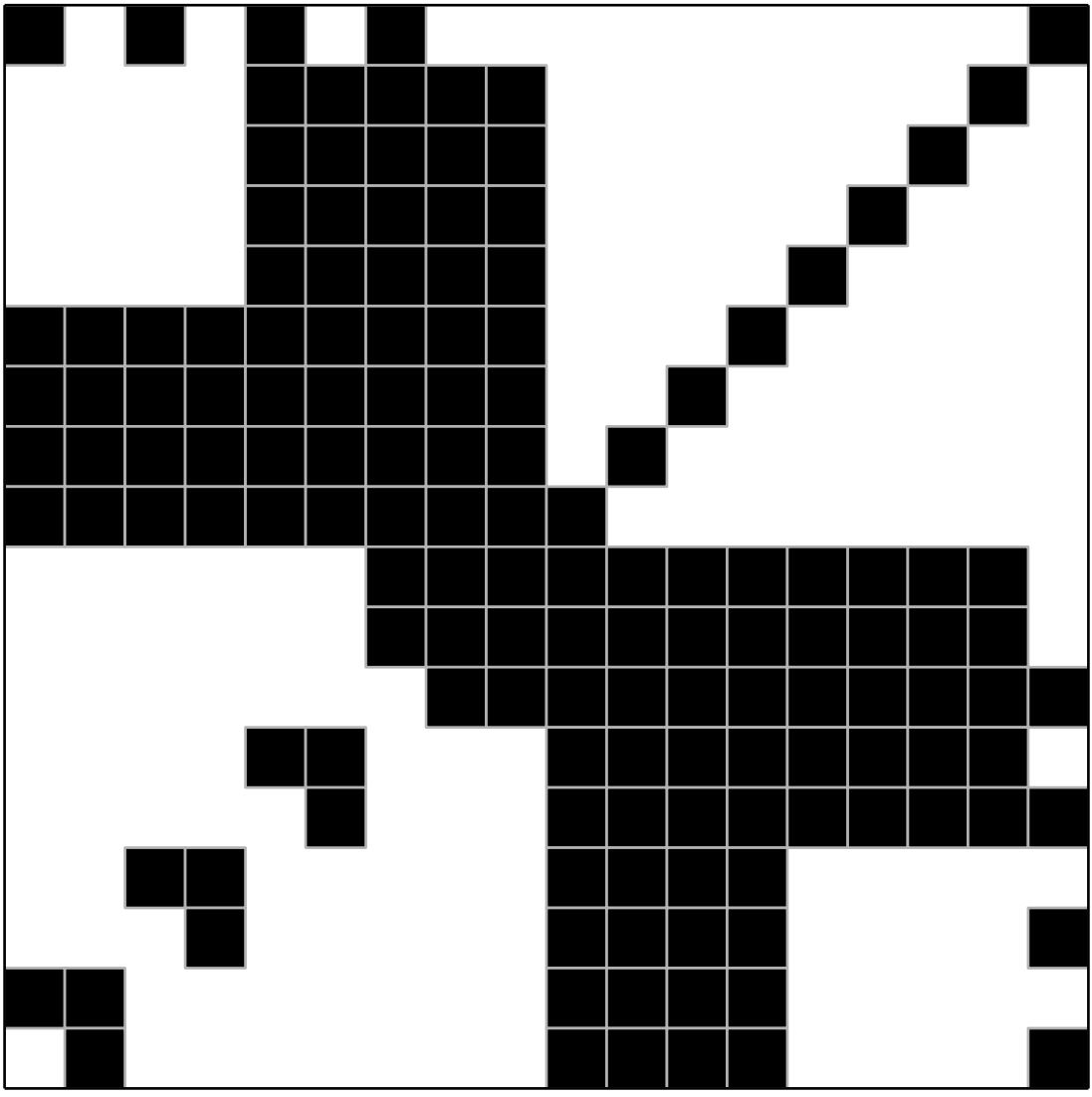

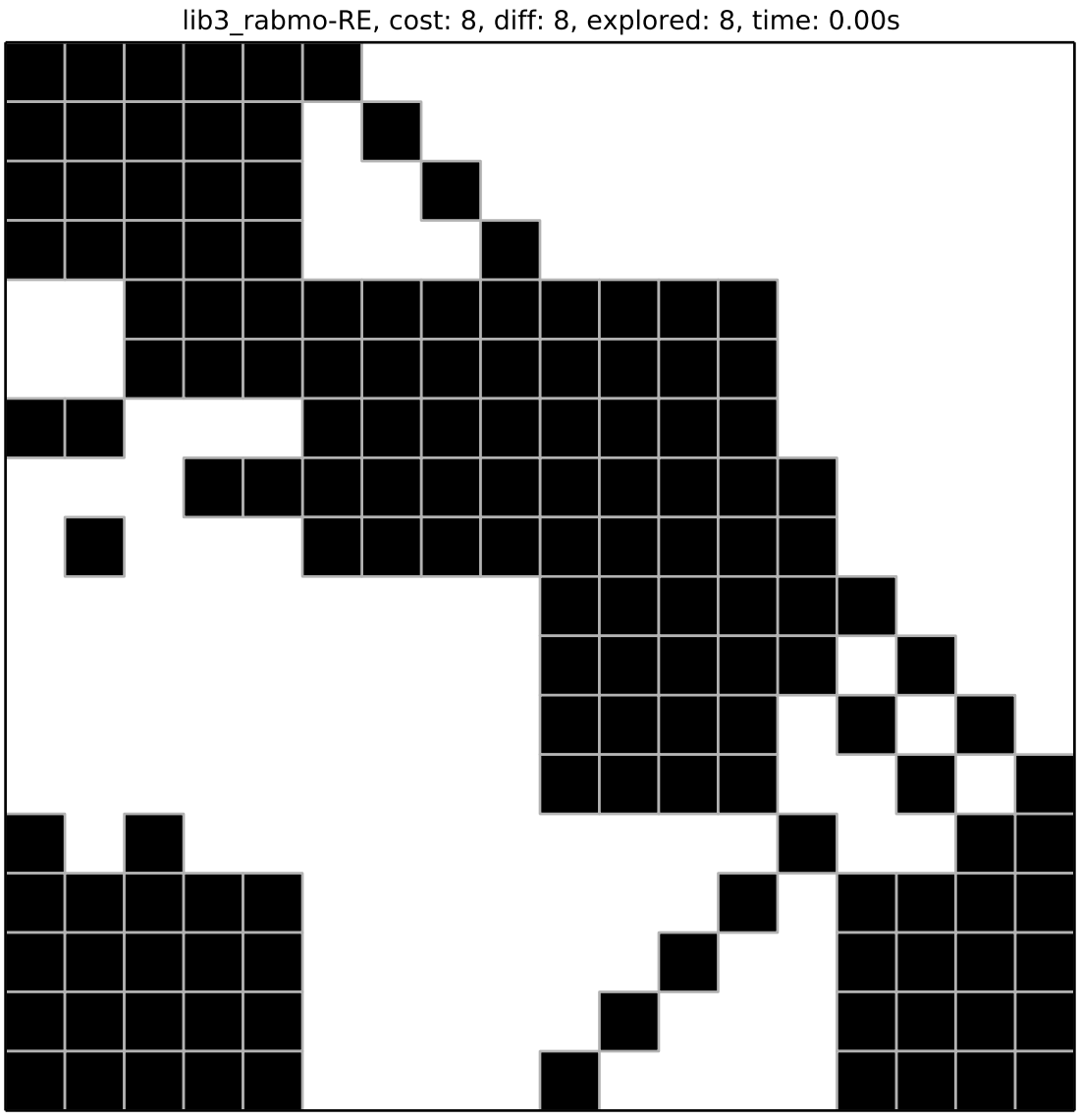
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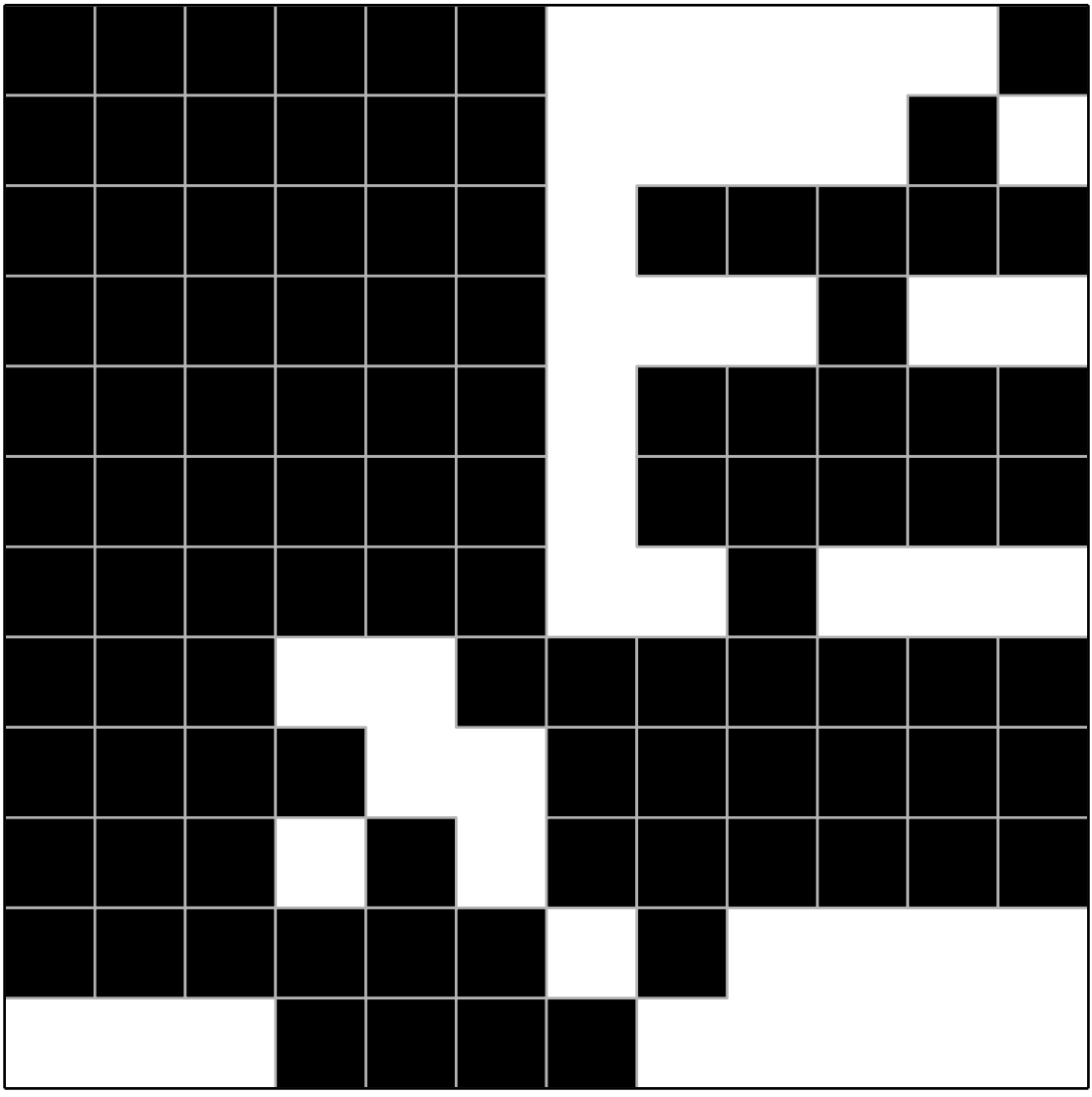
lib3_rbpl-00 12x12 (102) con: 6, var: 6



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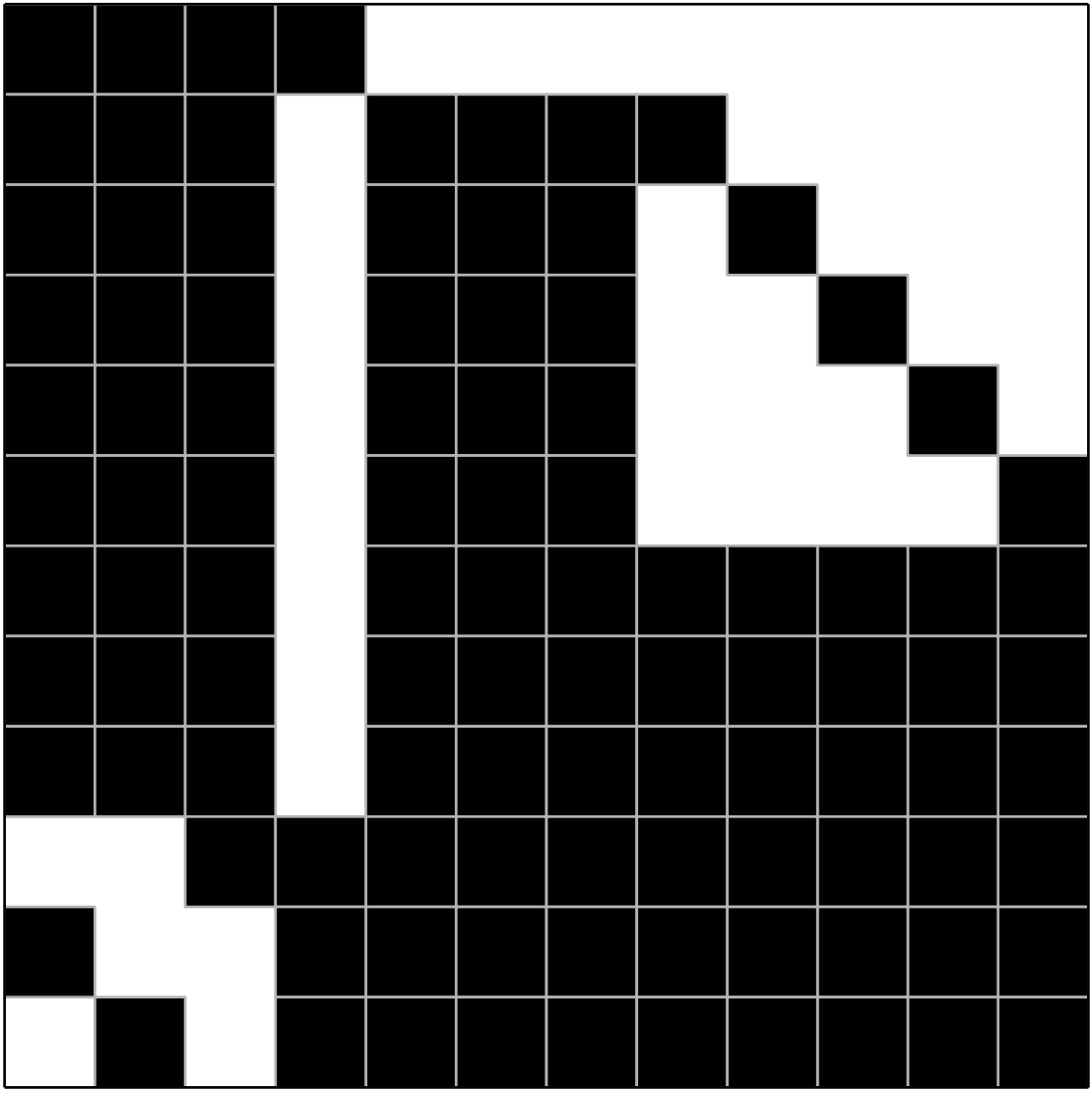
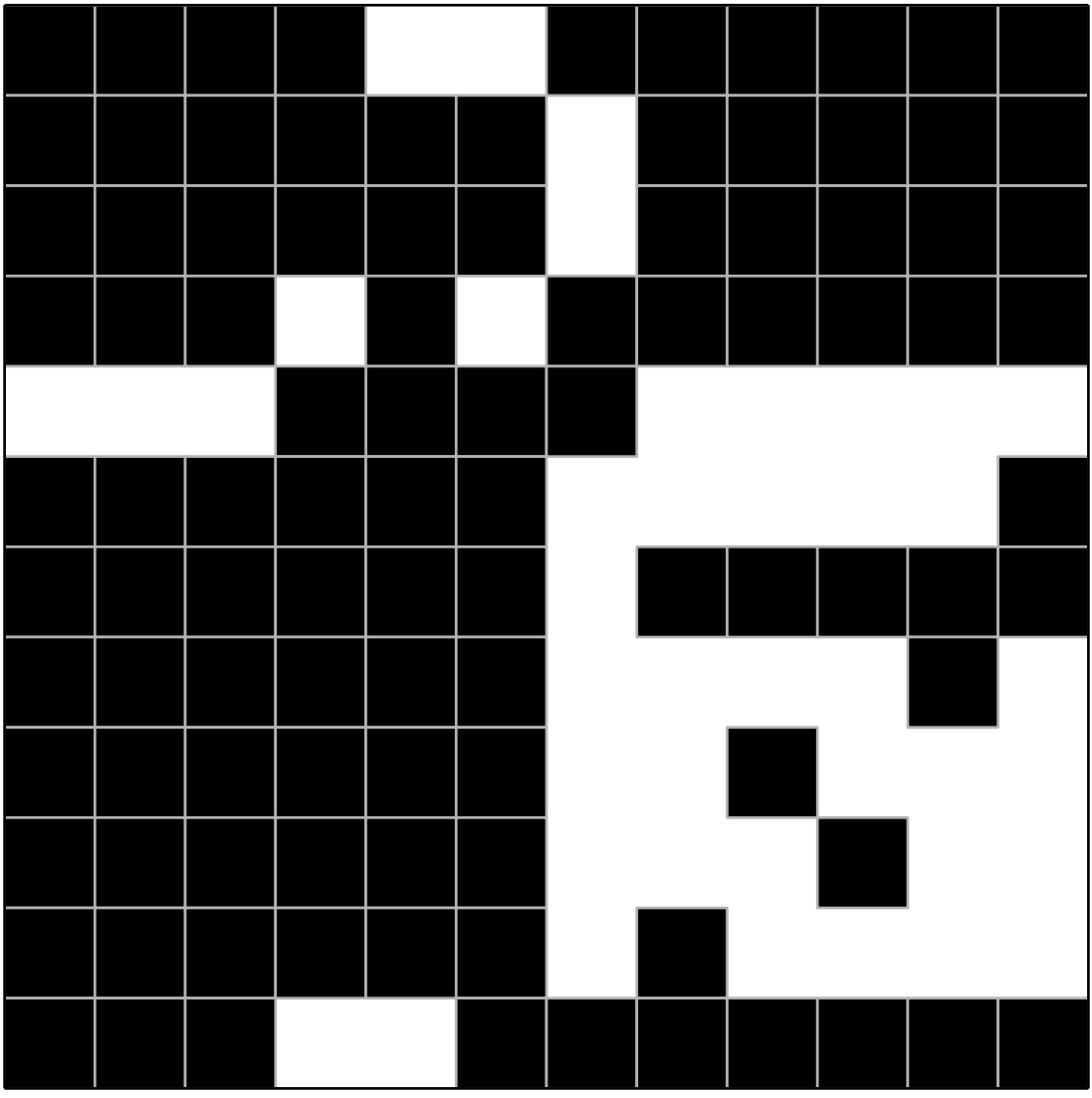
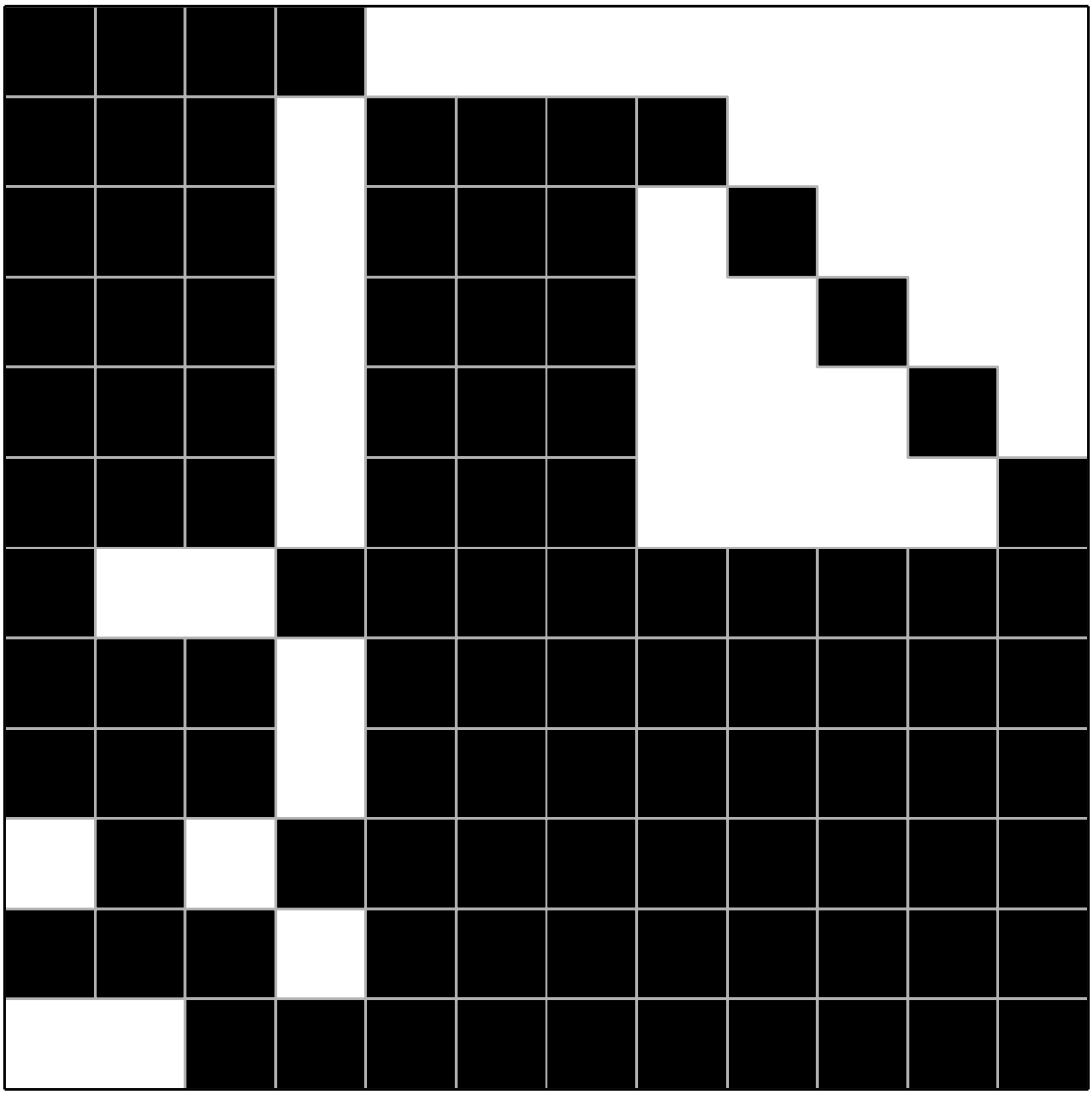


lib3_rbpl-01 12x12 (102) con: 6, var: 6

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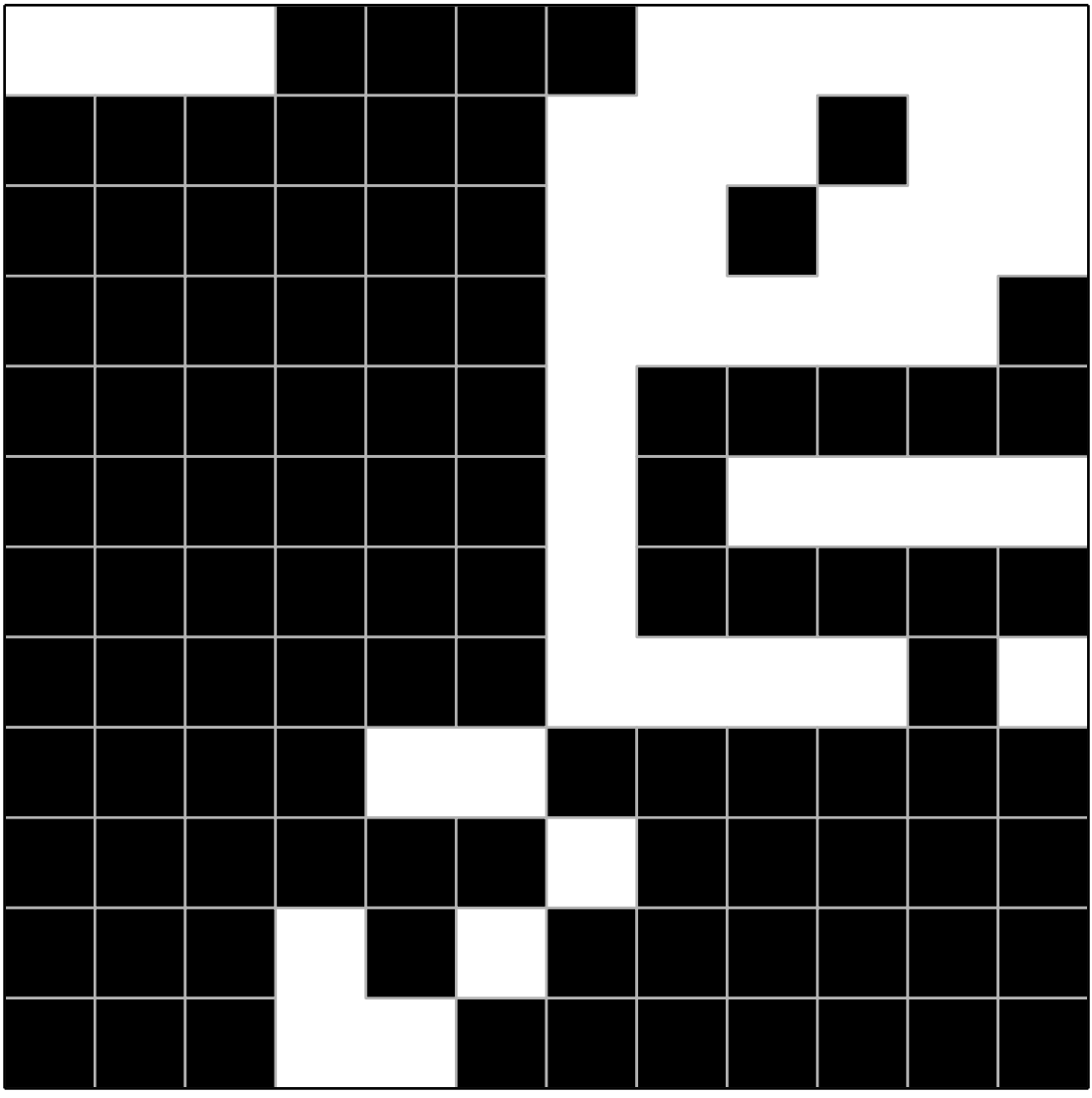
lib3_rbpl-02 12x12 (102) con: 6, var: 6



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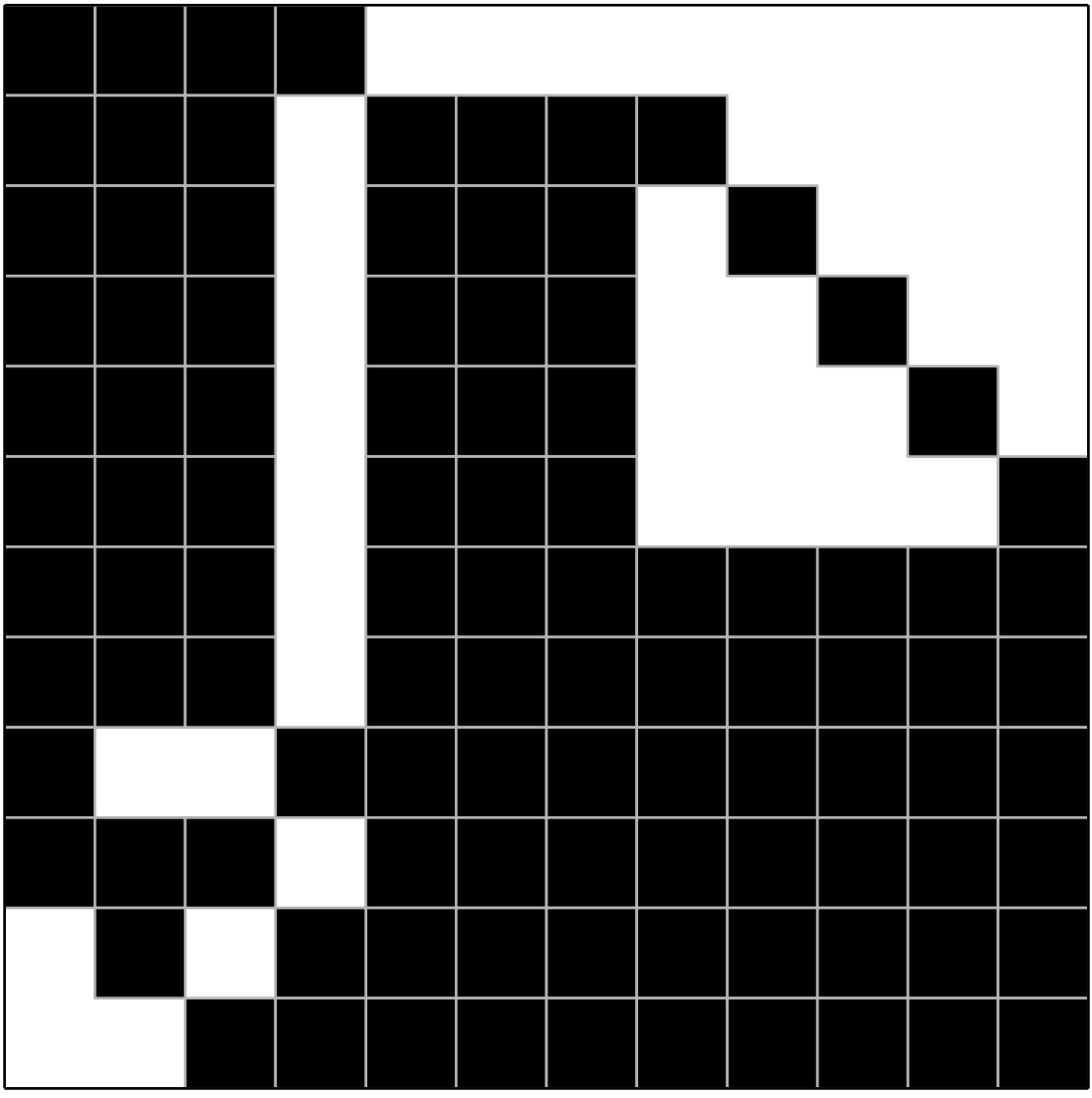
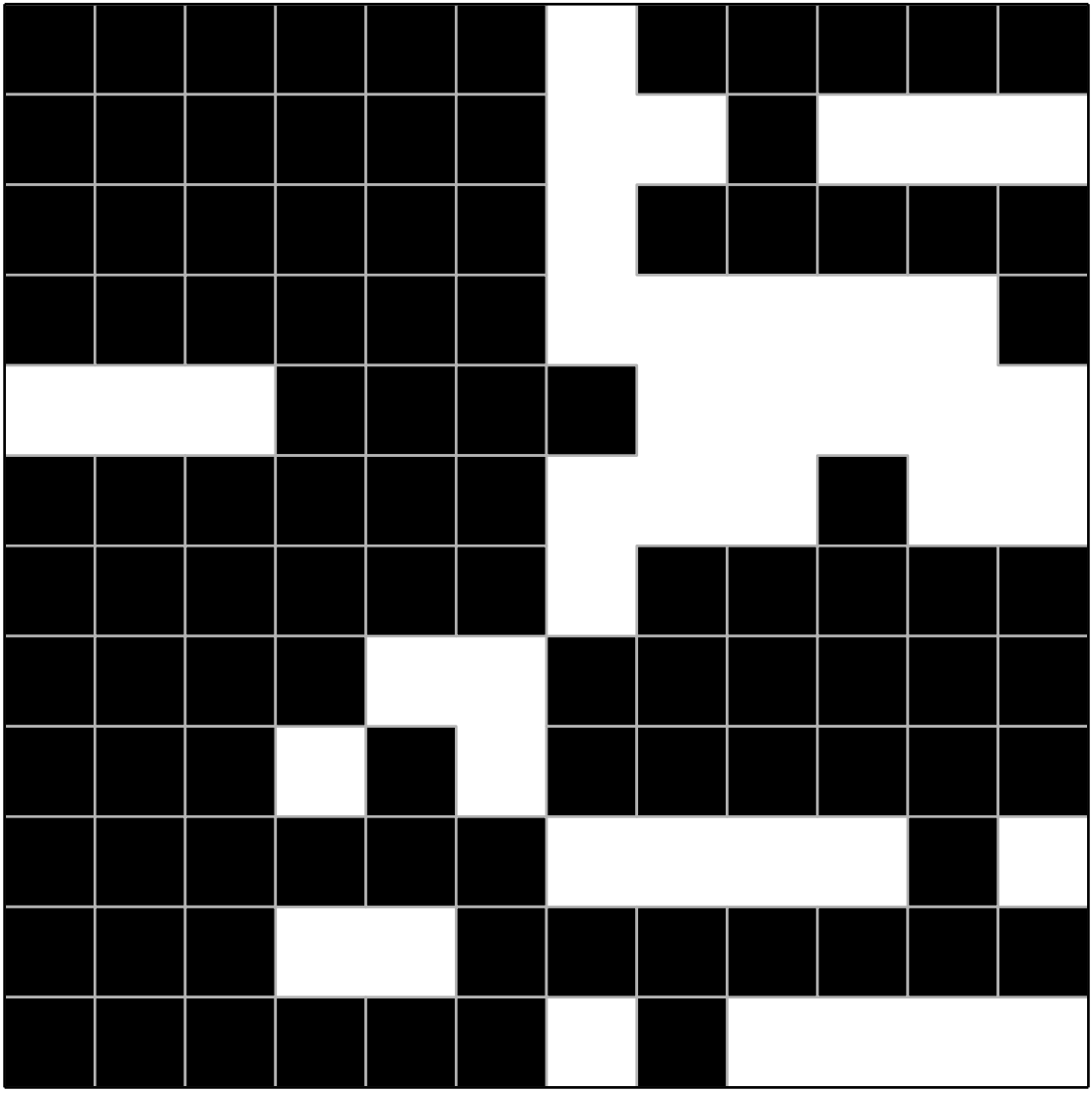


lib3_rbpl-03 12x12 (102) con: 6, var: 6



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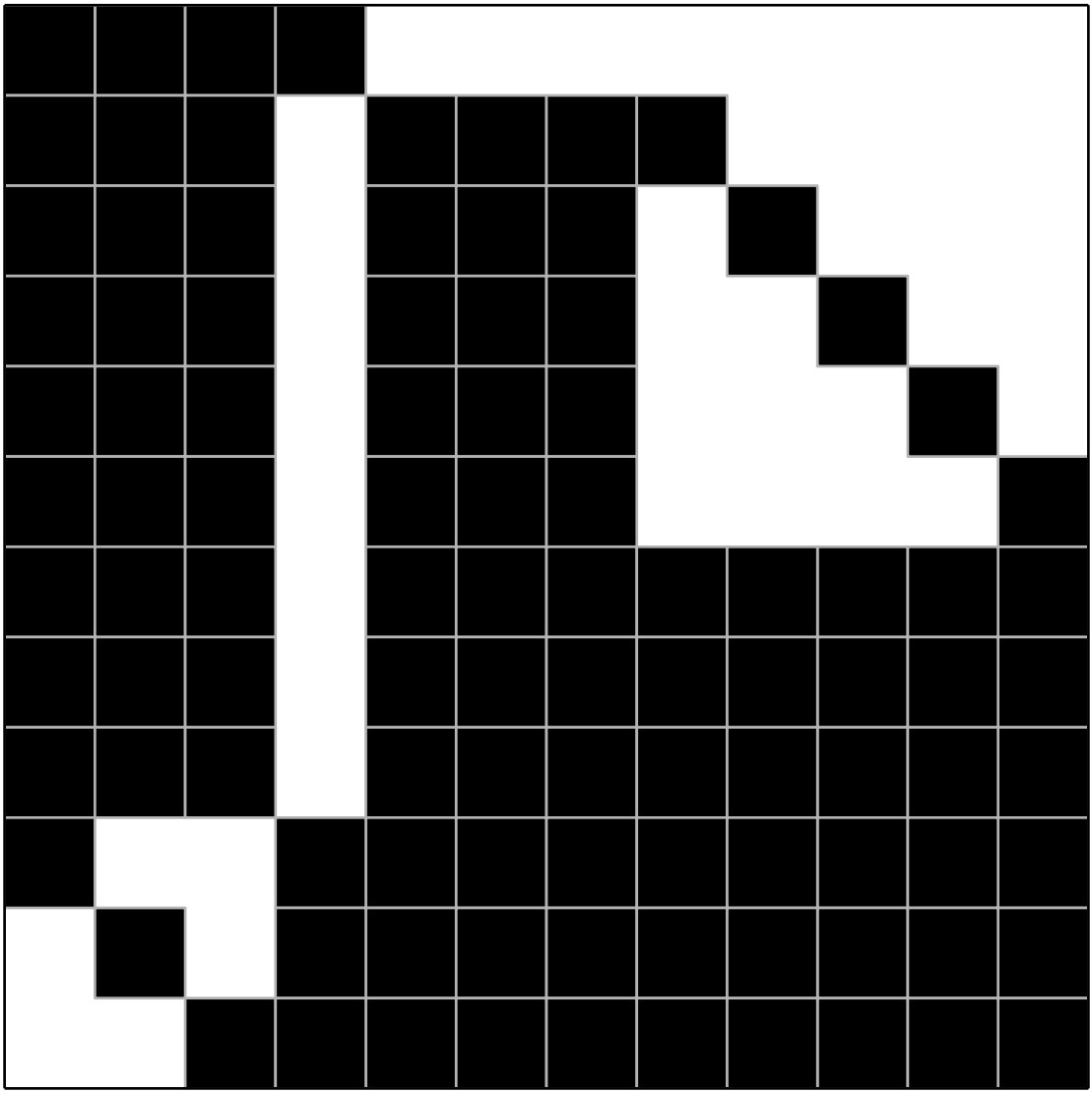
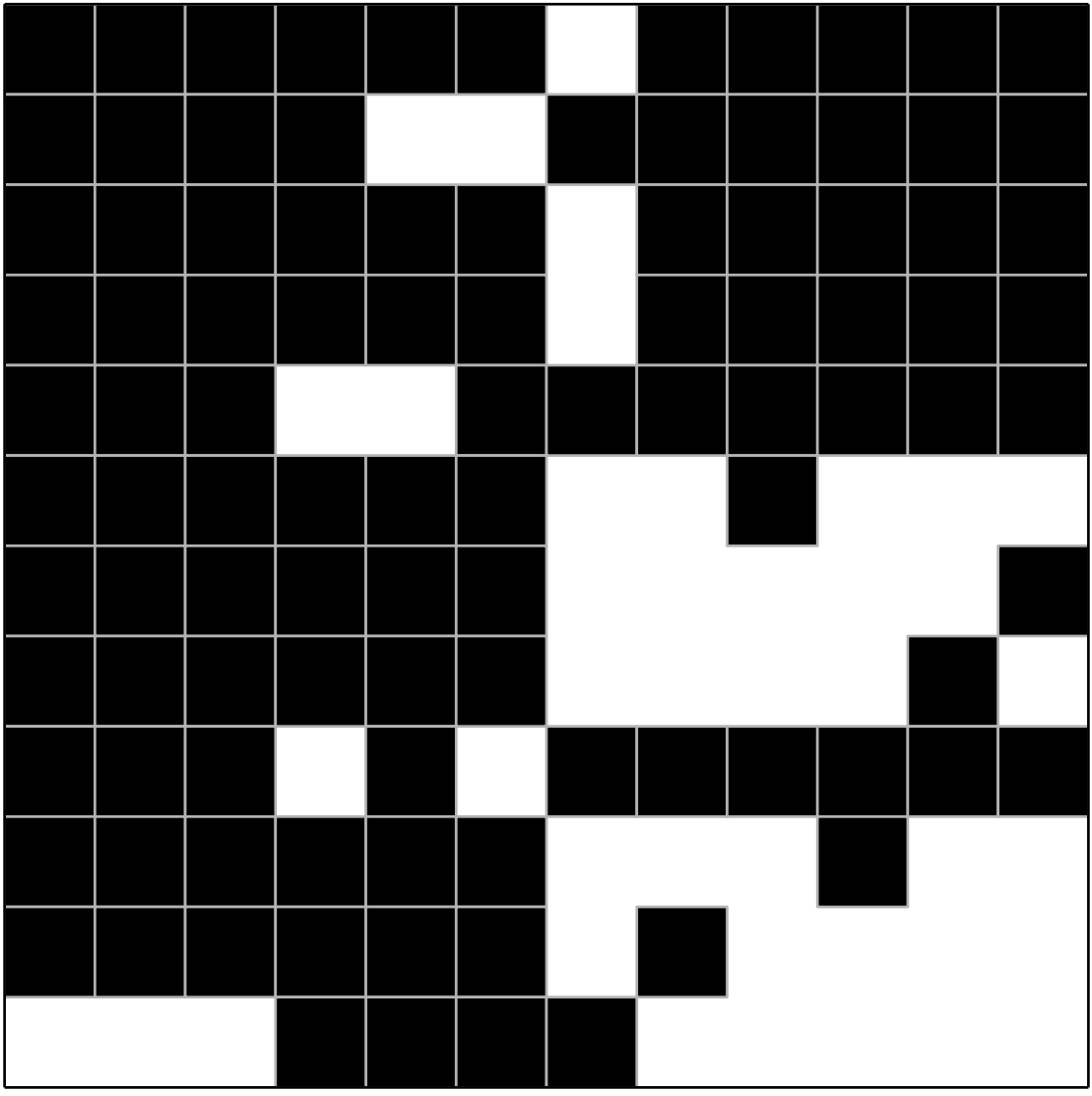
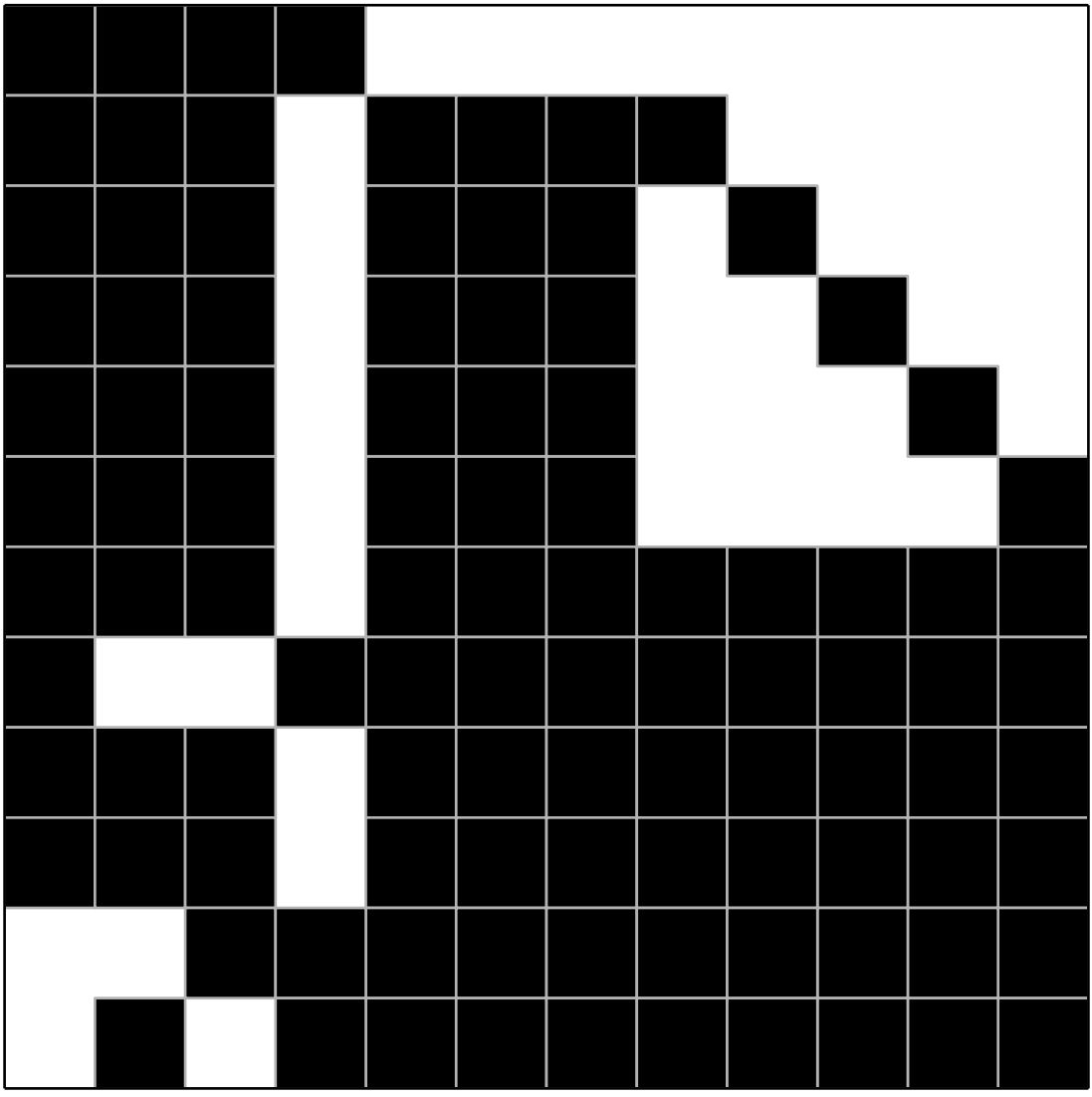


lib3_rbpl-04 12x12 (102) con: 6, var: 6



lib3_rbpl-04, cost: 6, diff: 6, explored: 2, time: 0.00s



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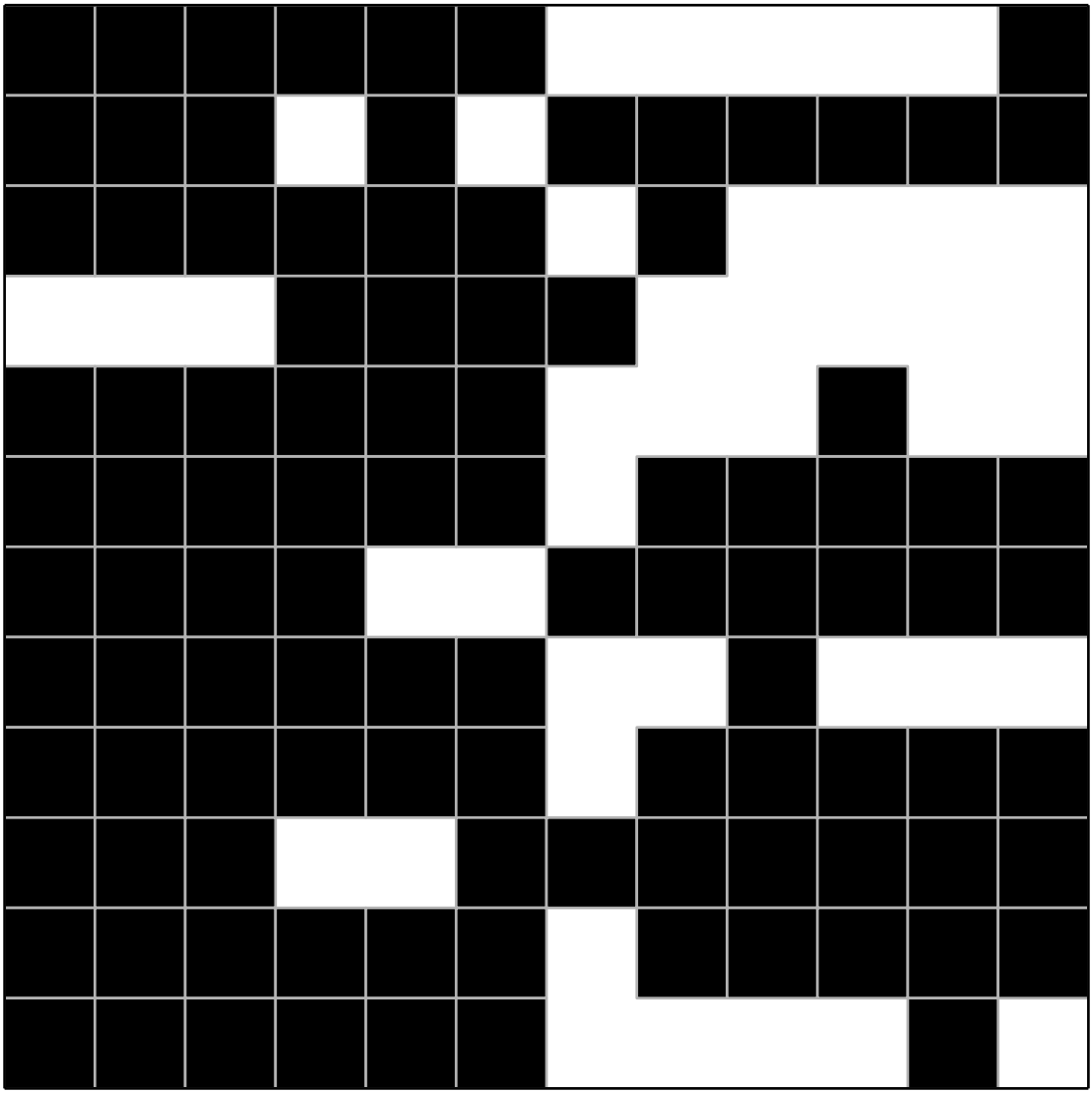

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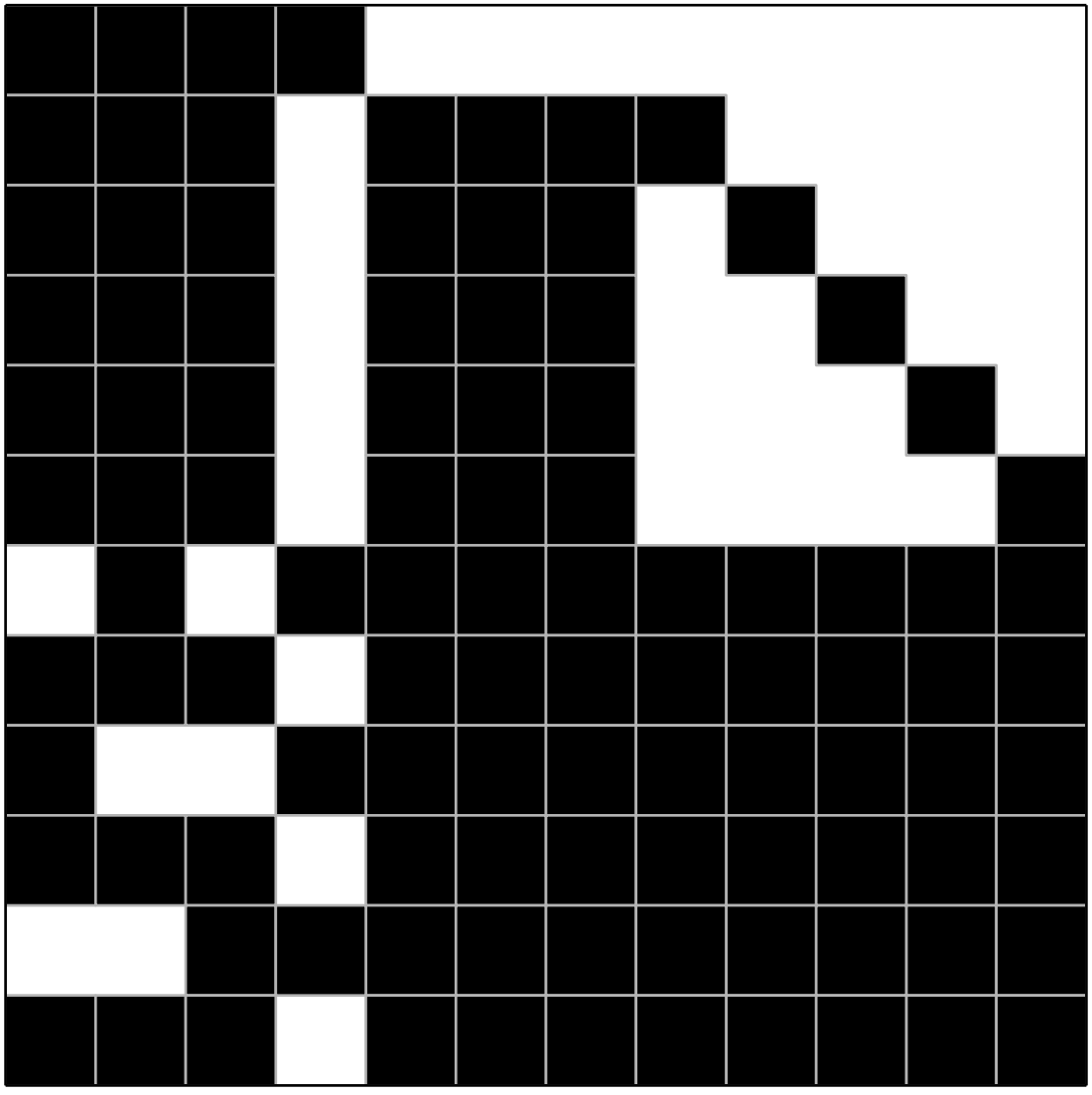

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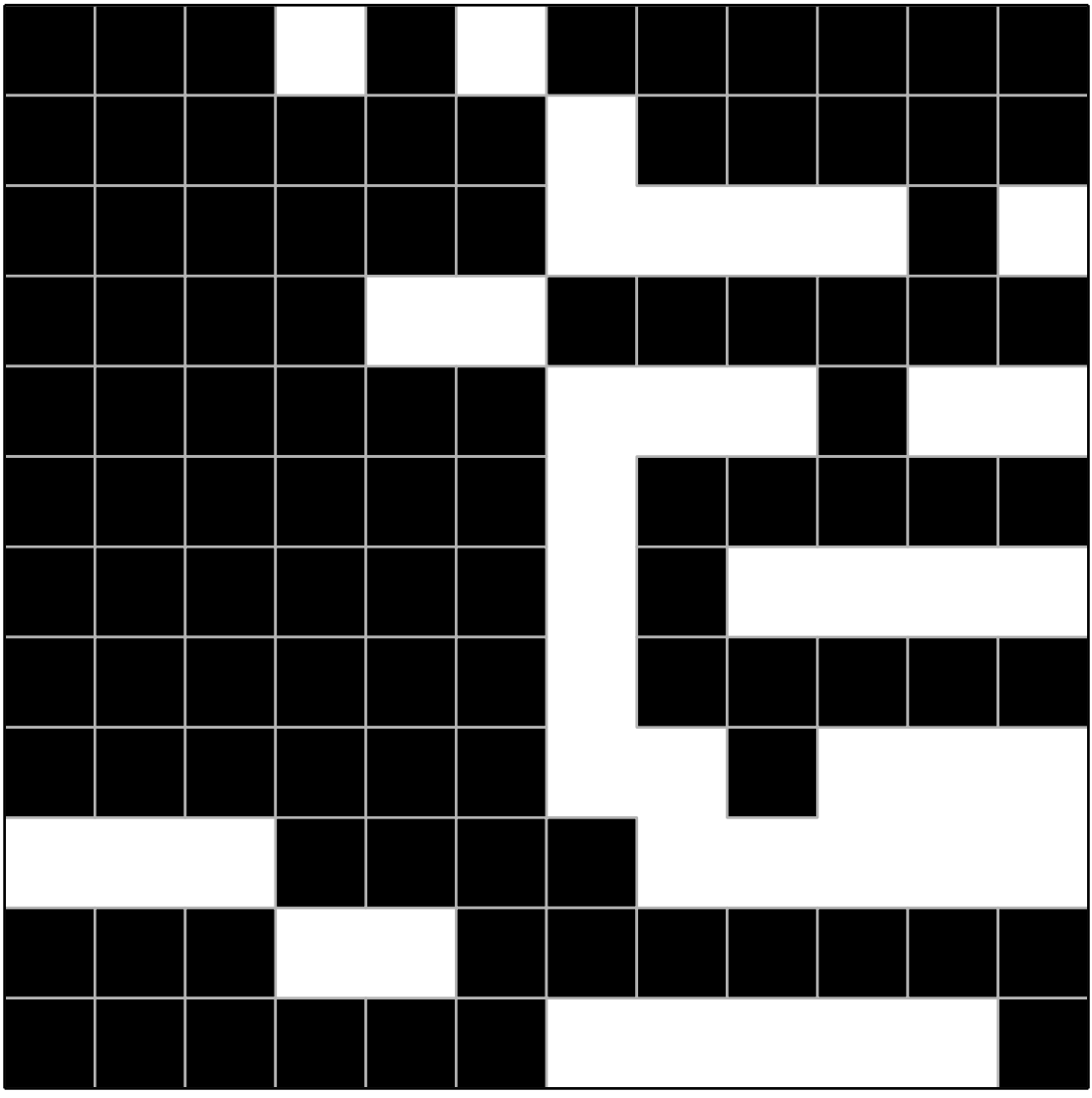

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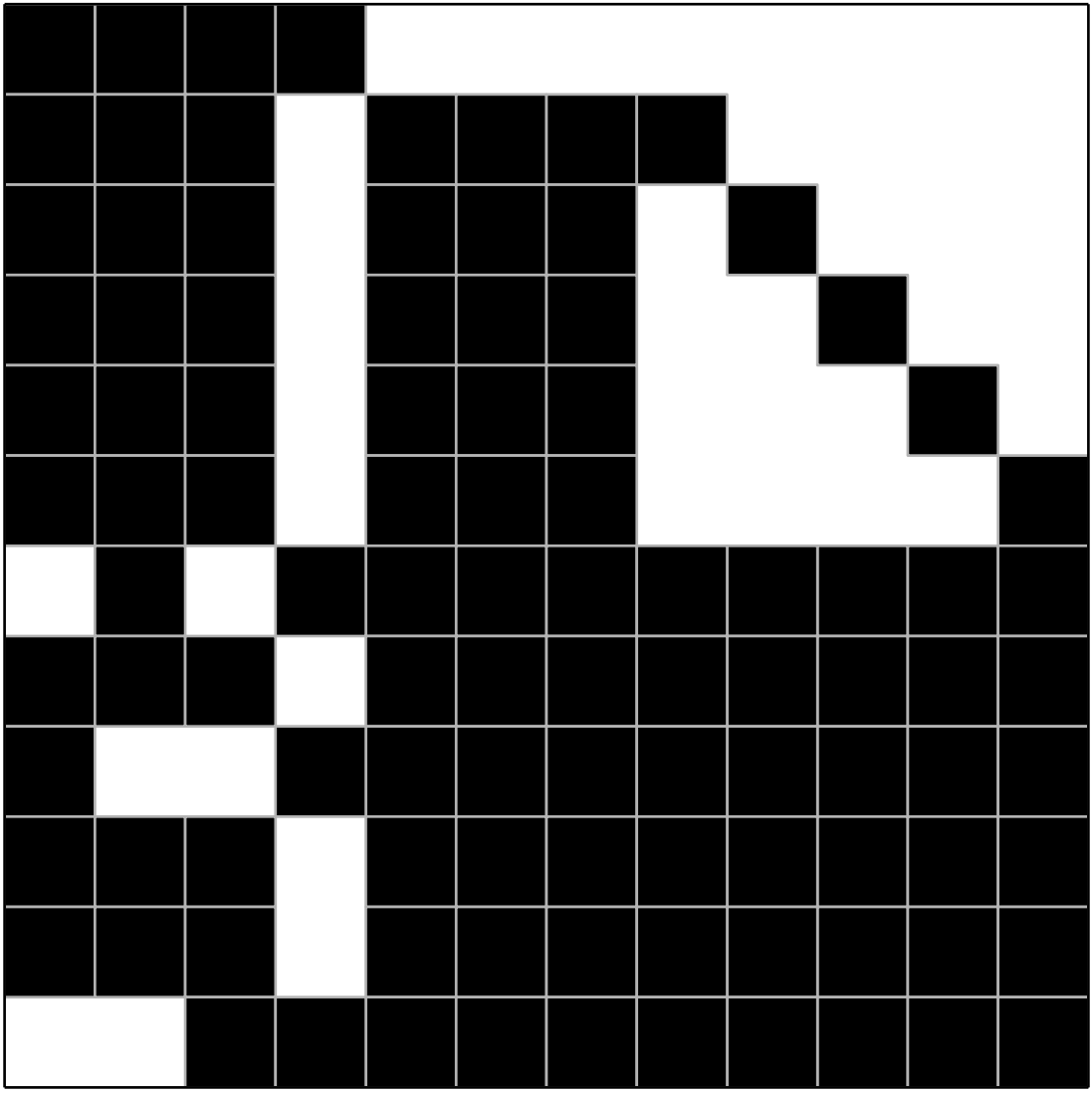
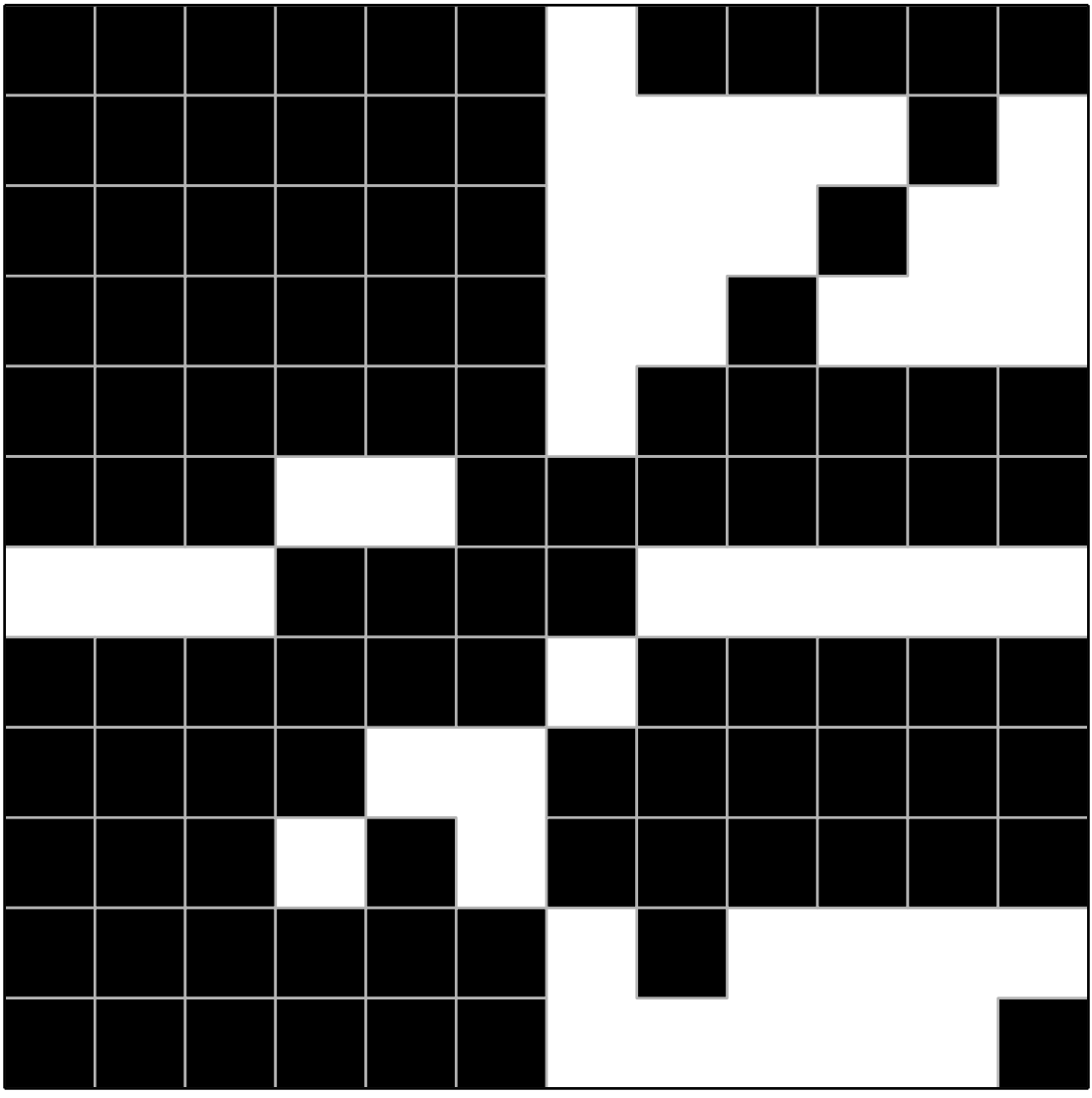


lib3_rbpl-07 12x12 (102) con: 6, var: 6



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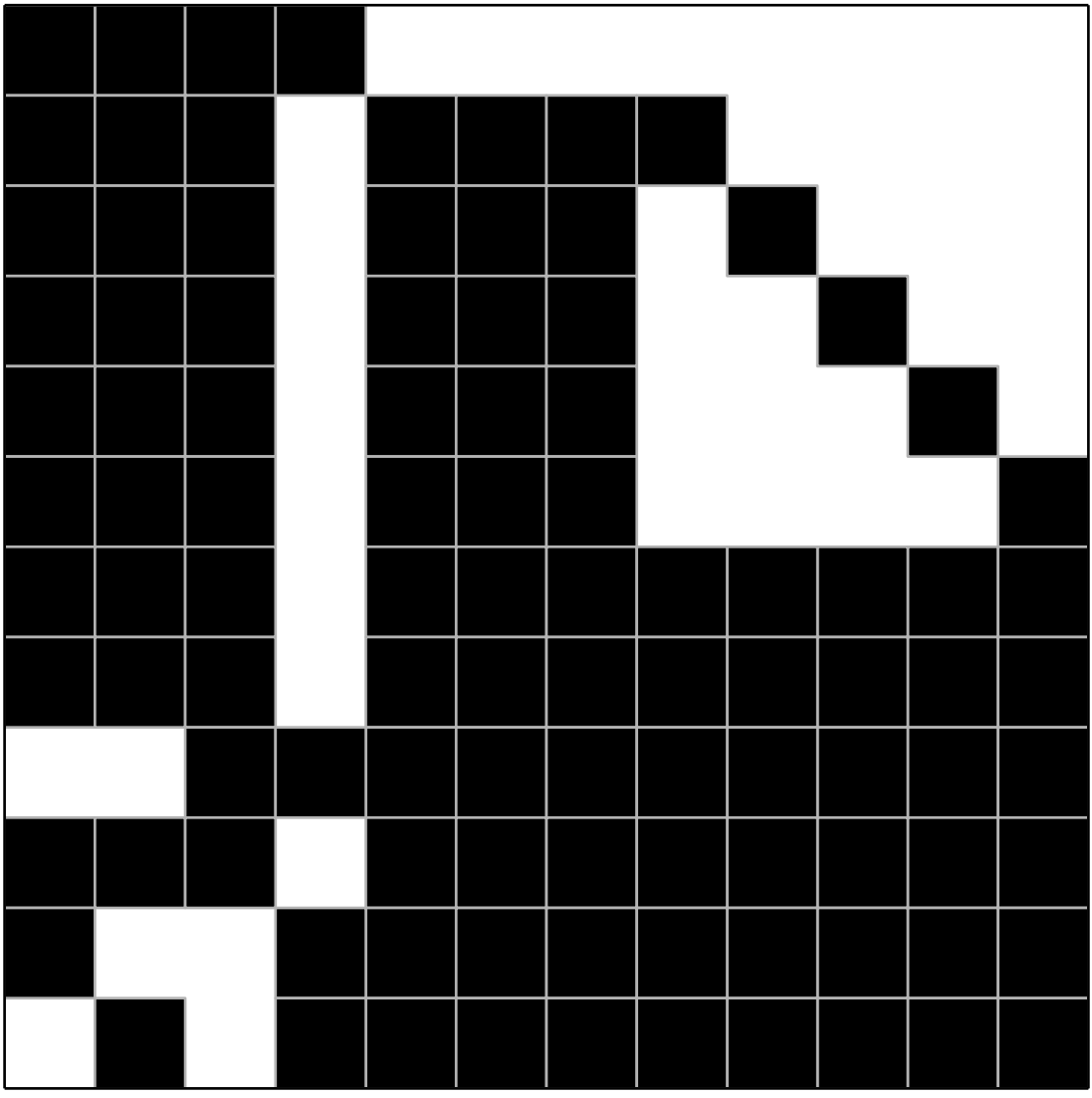

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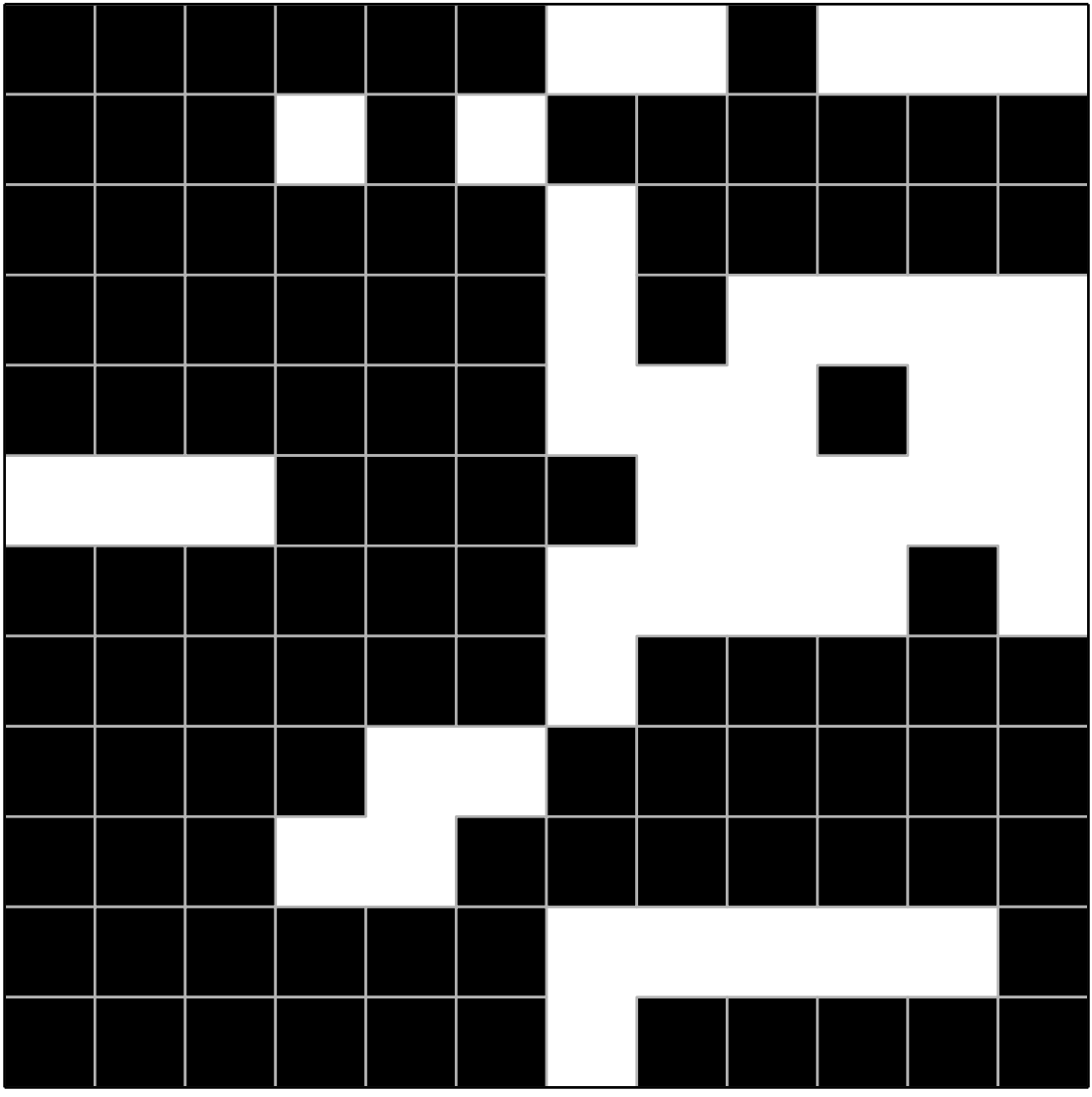

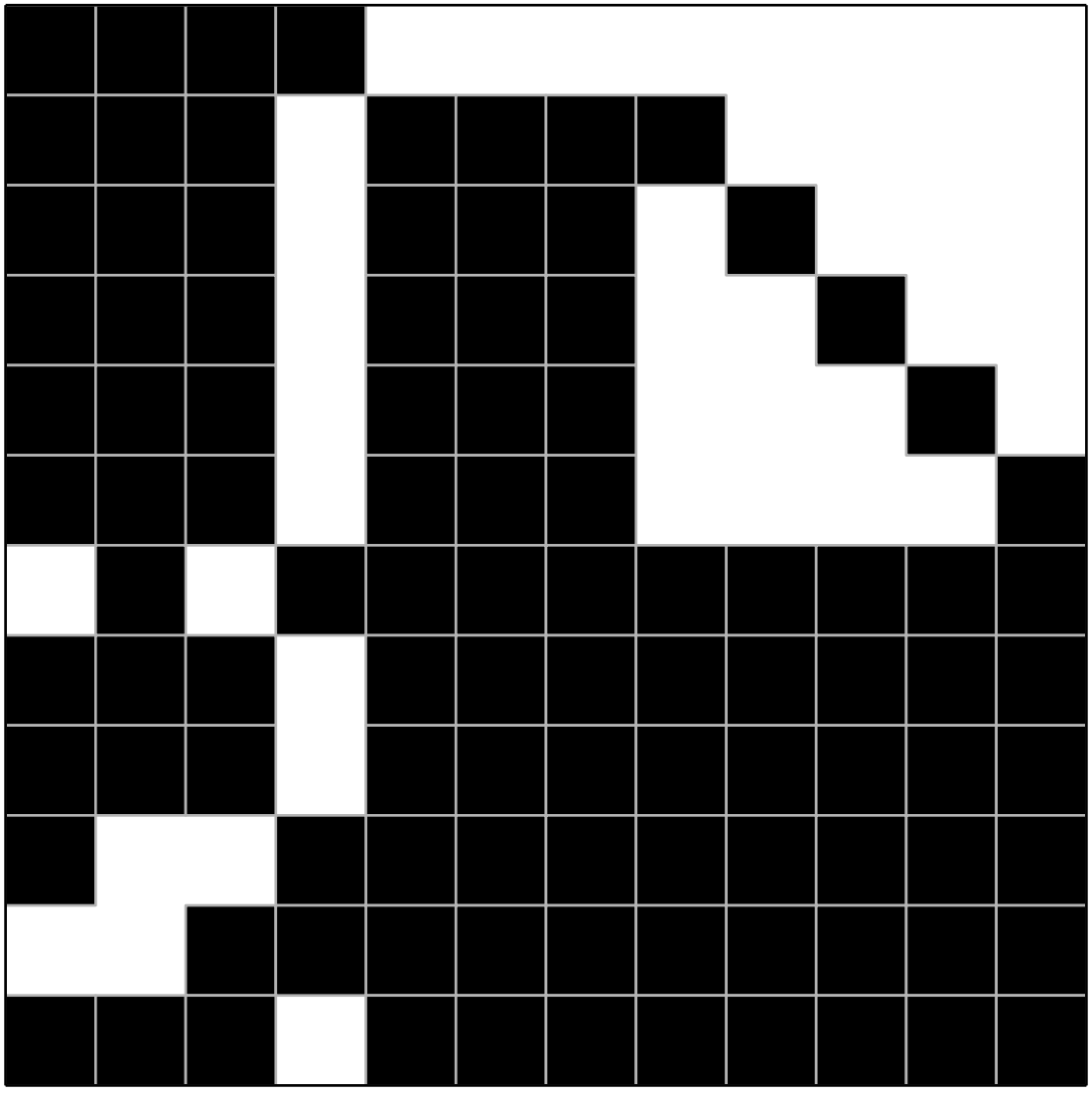
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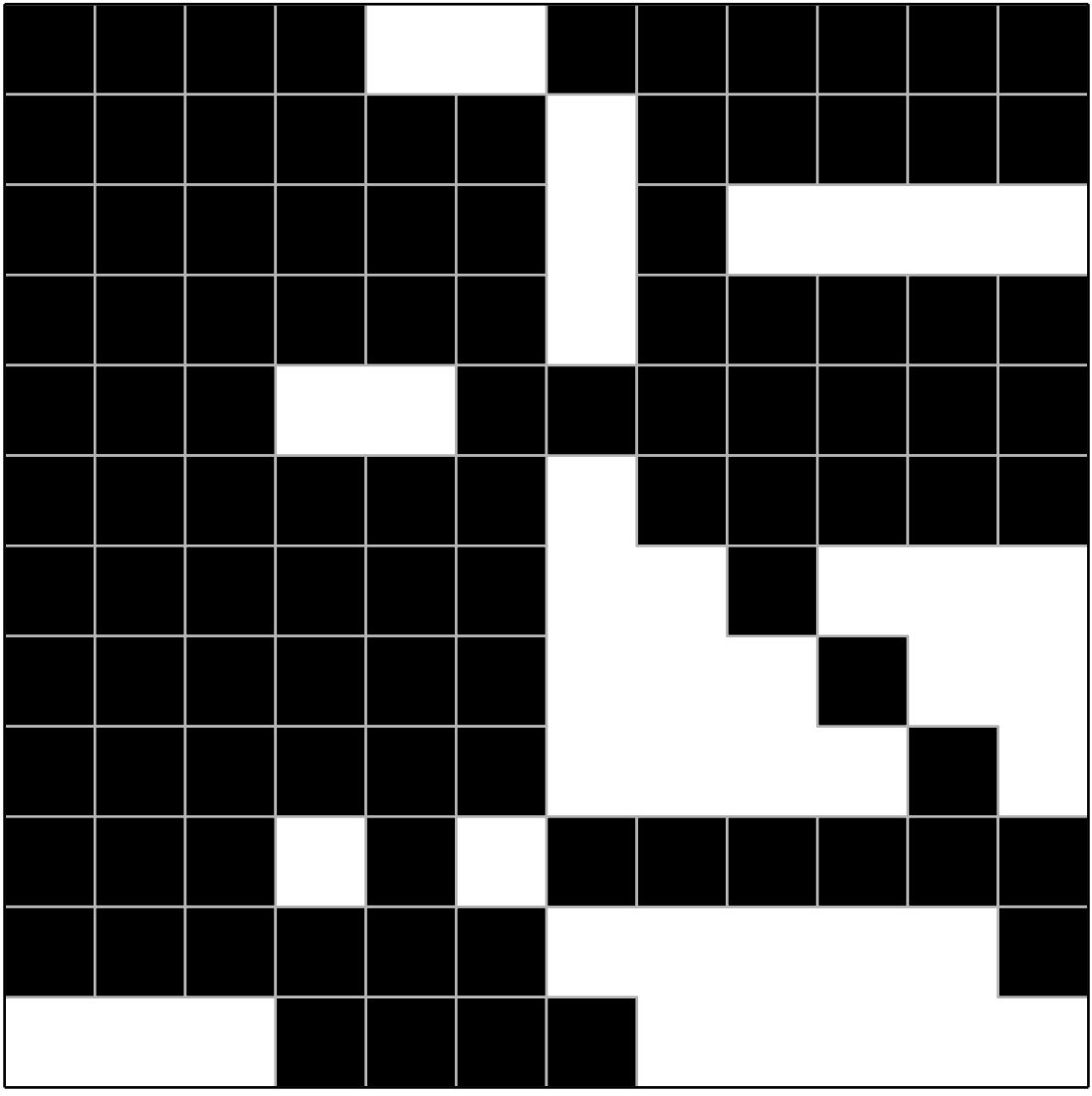

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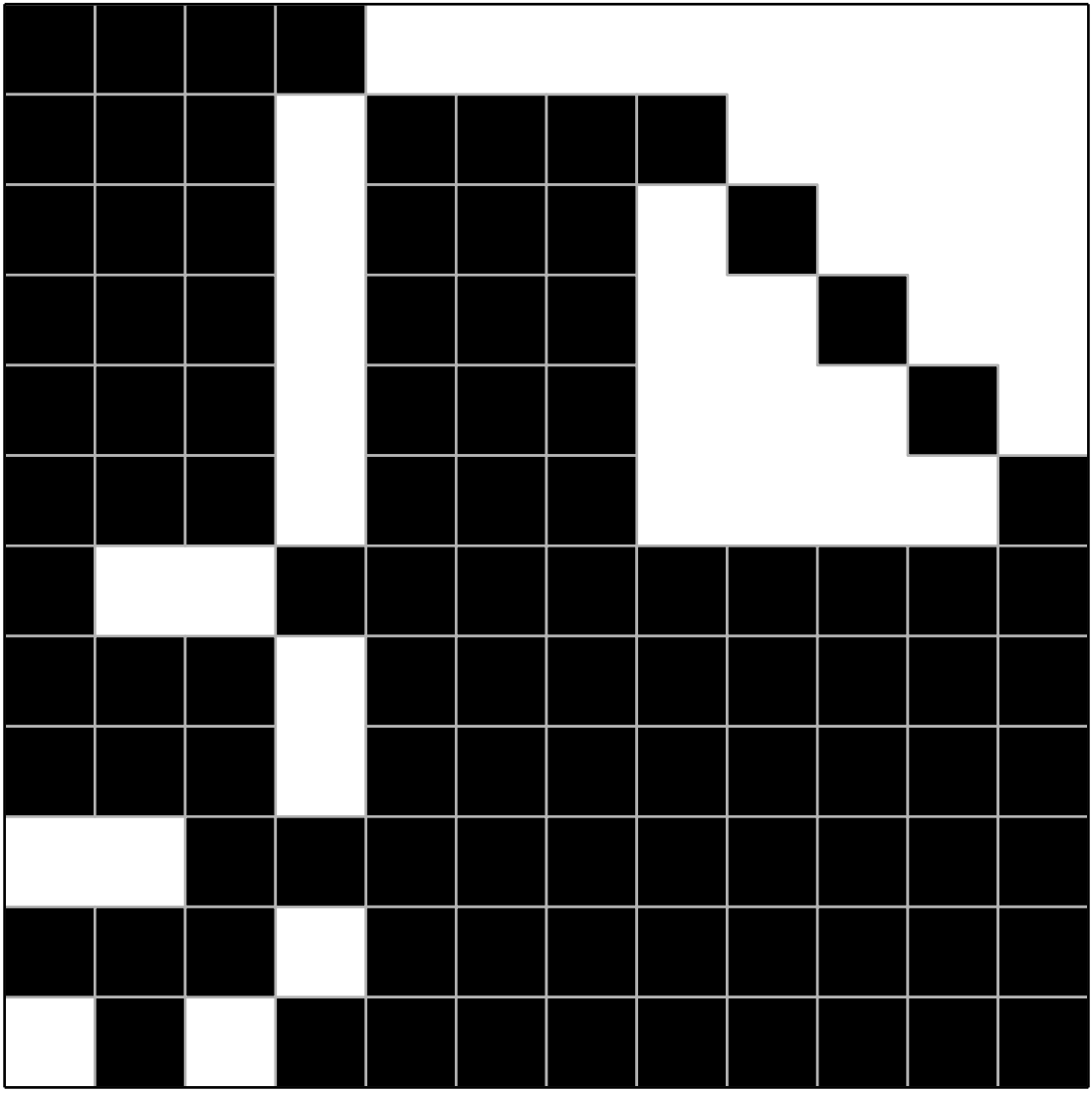

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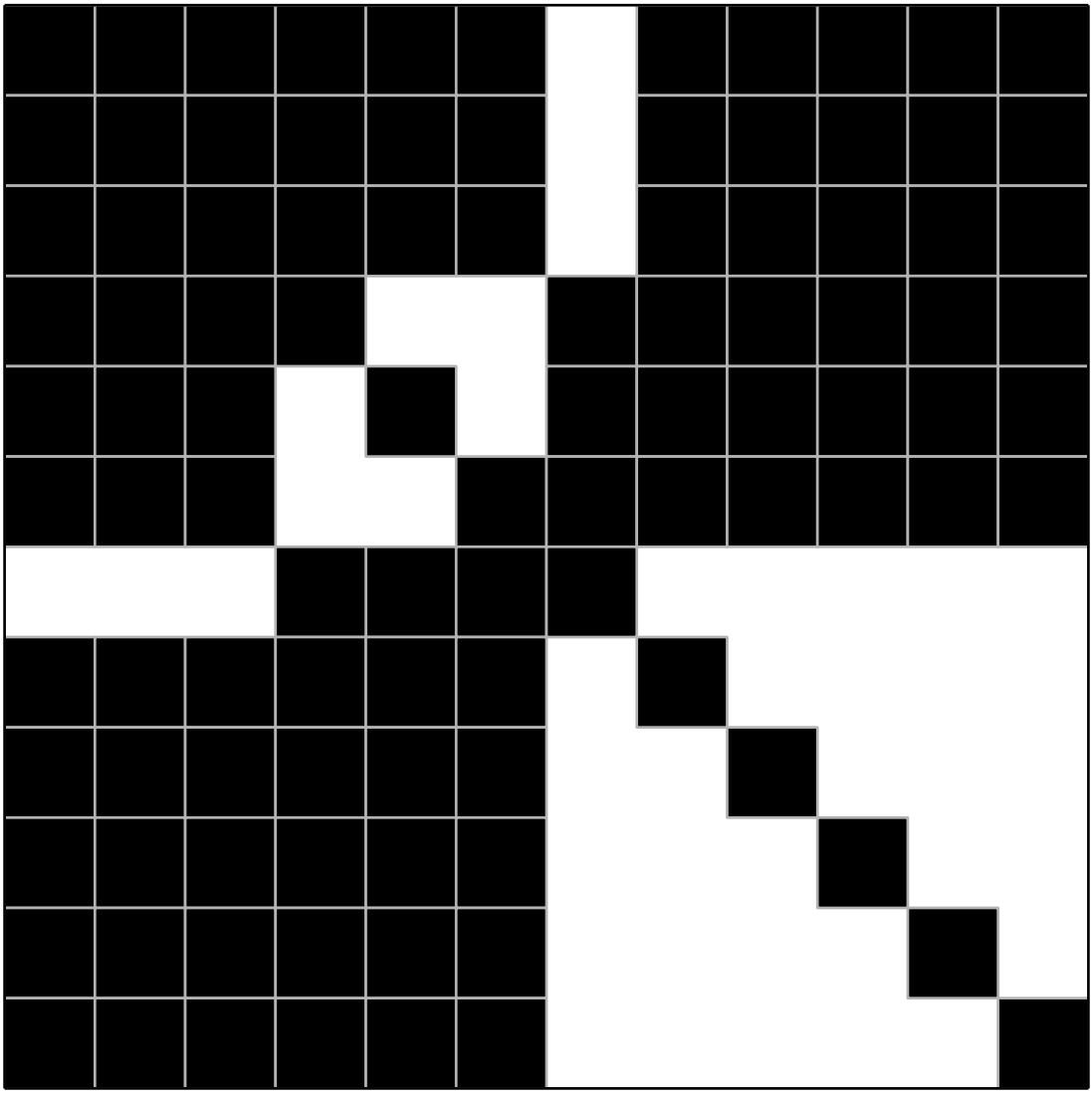

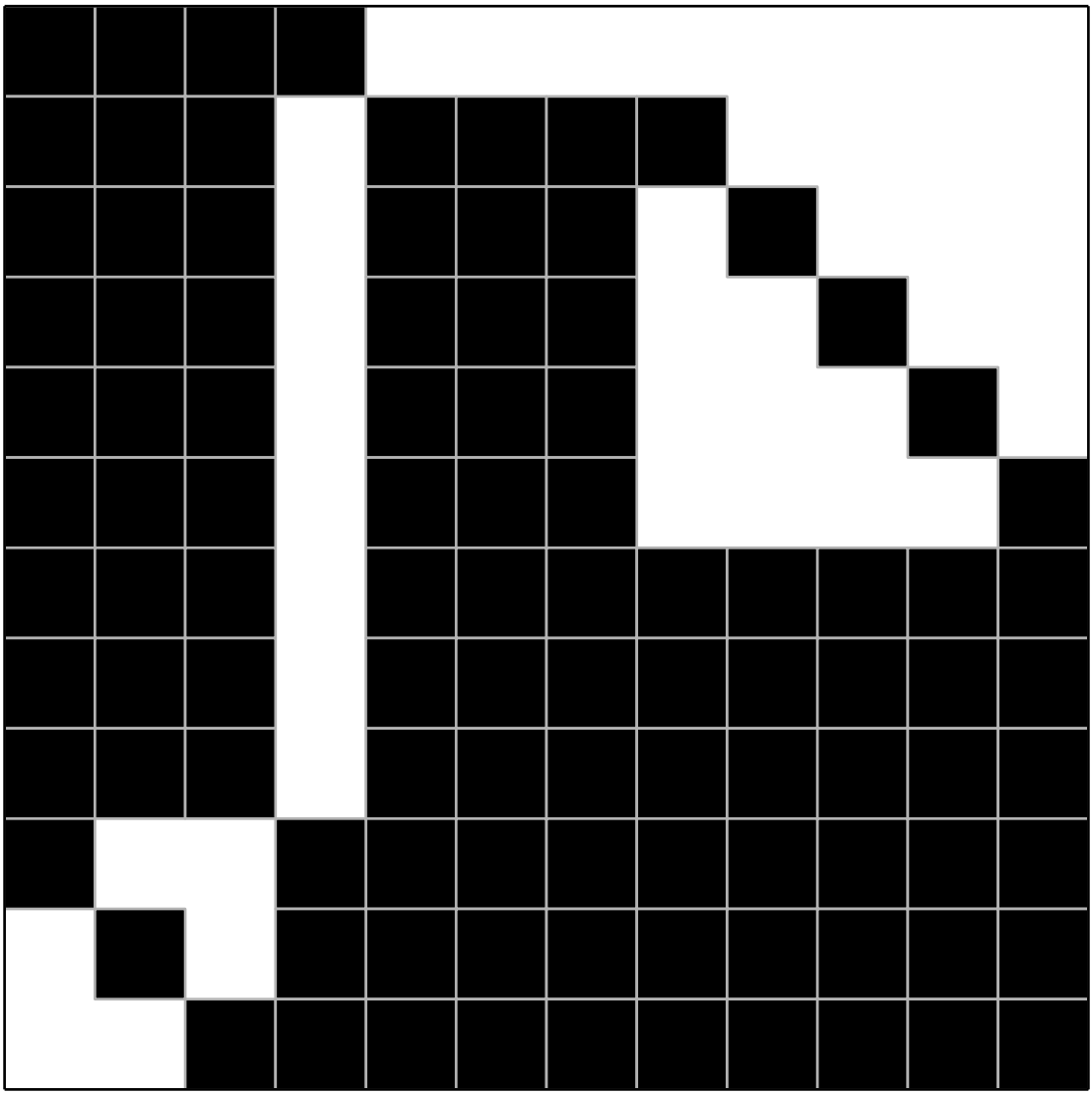
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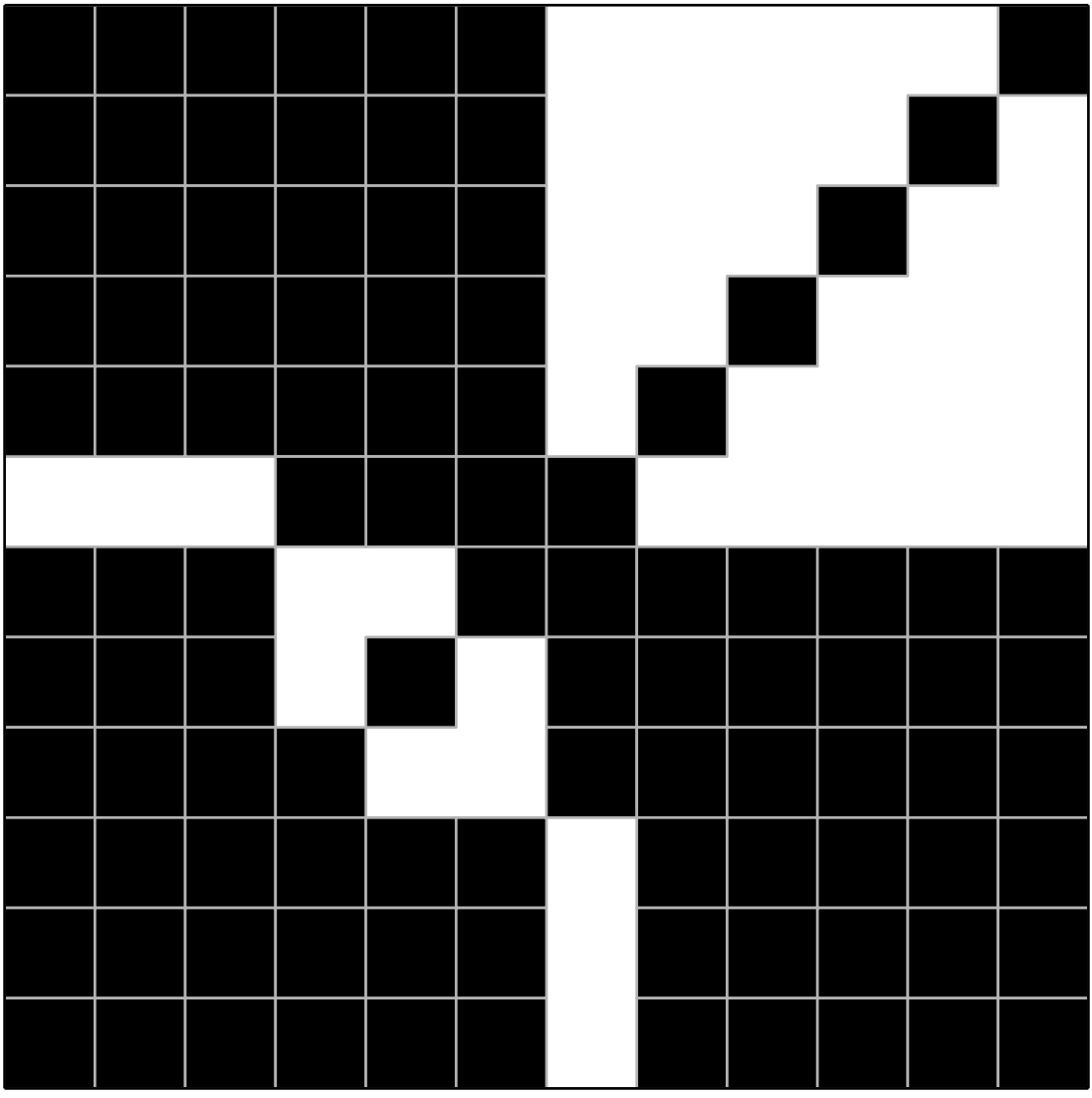

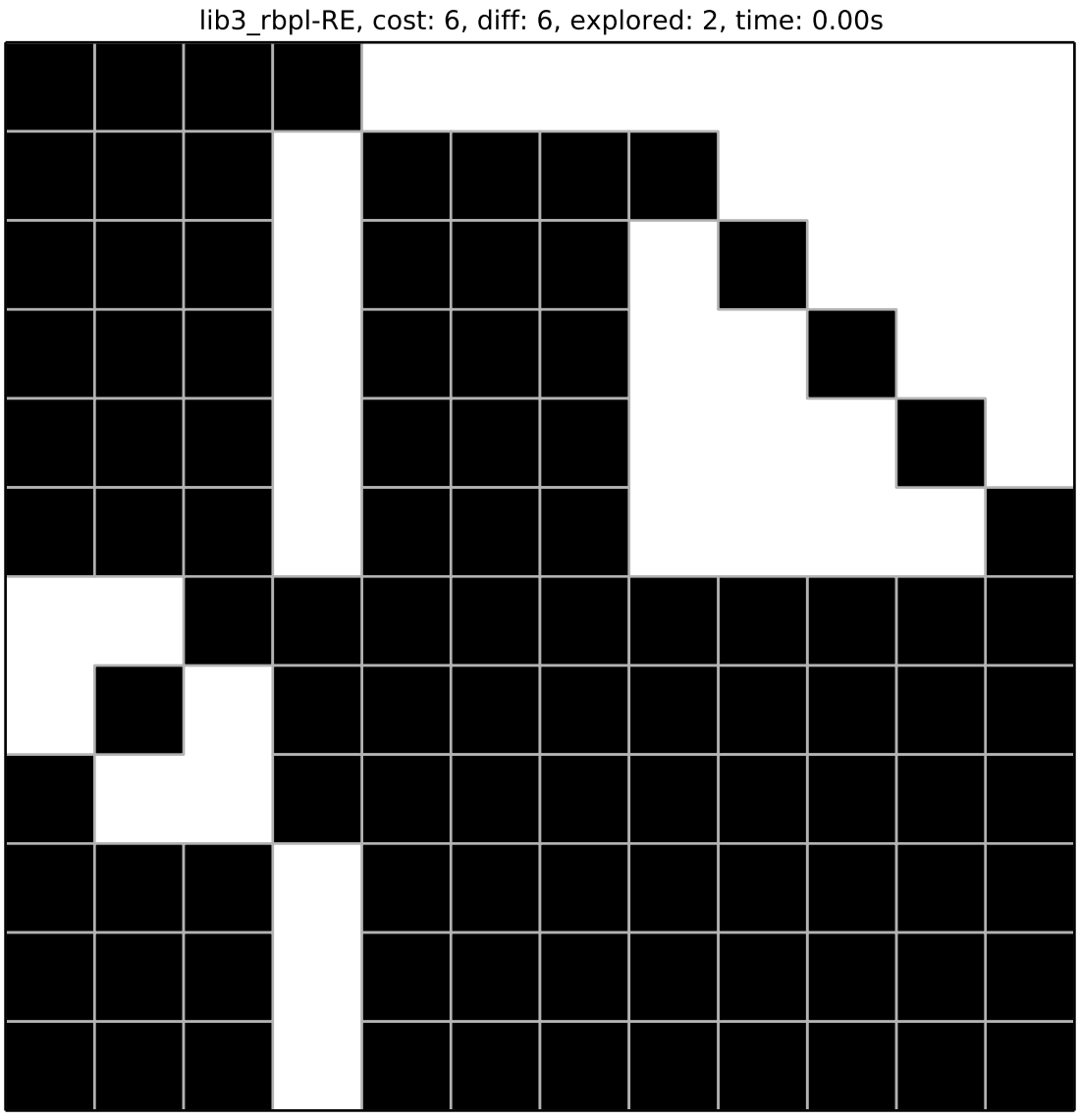
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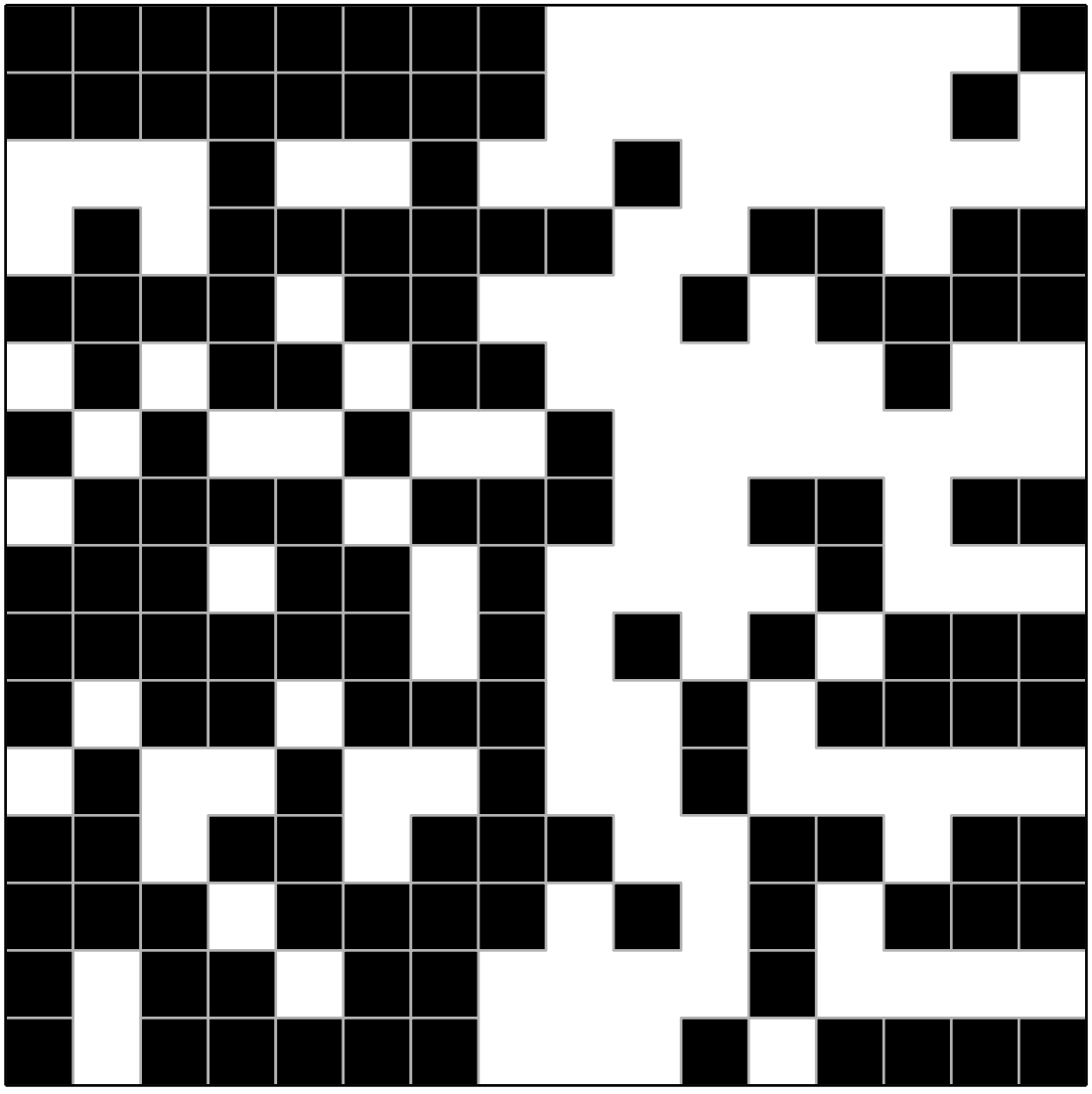
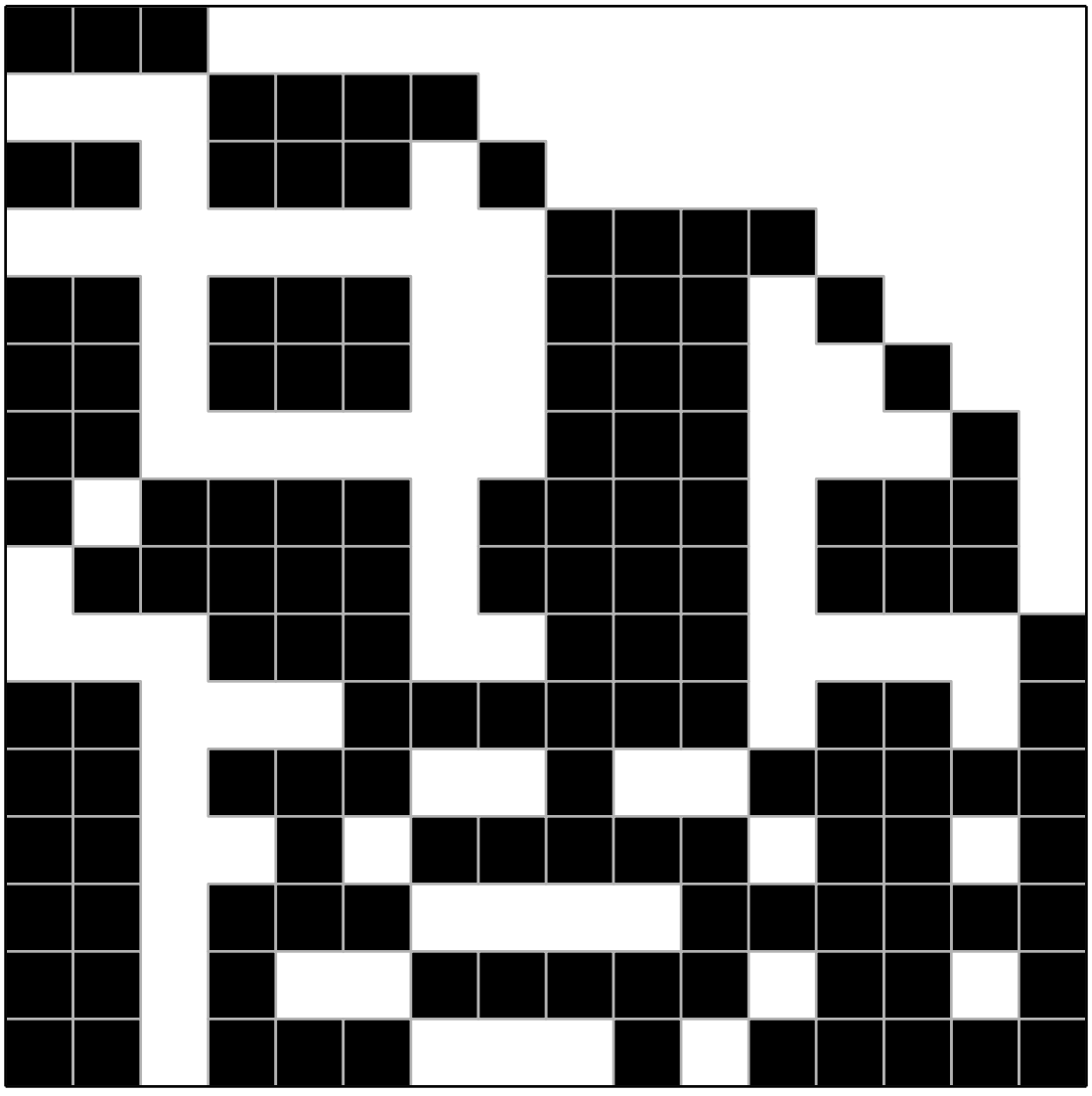
lib3_rbpl24-00 16x16 (138) con: 8, var: 8

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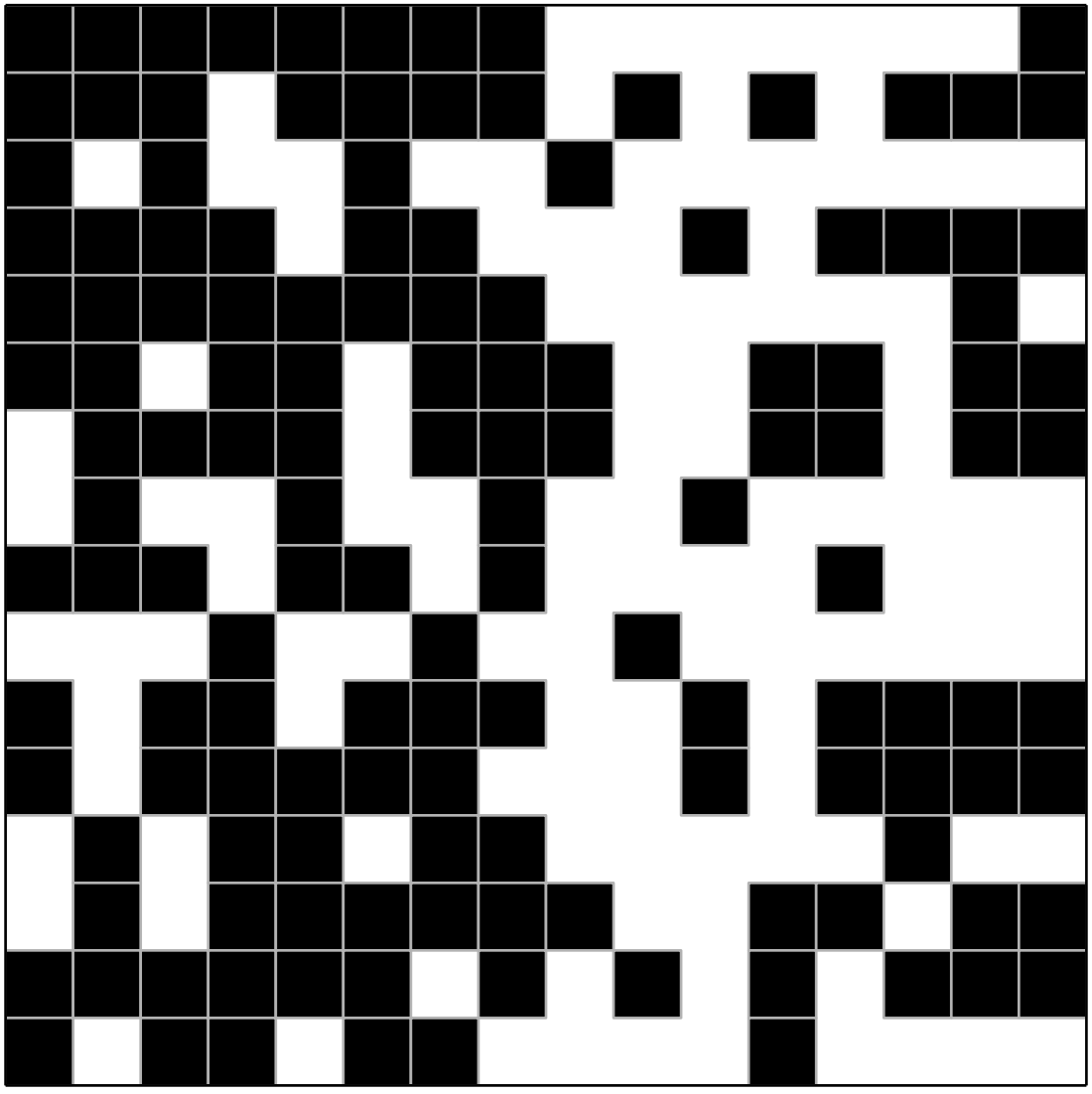
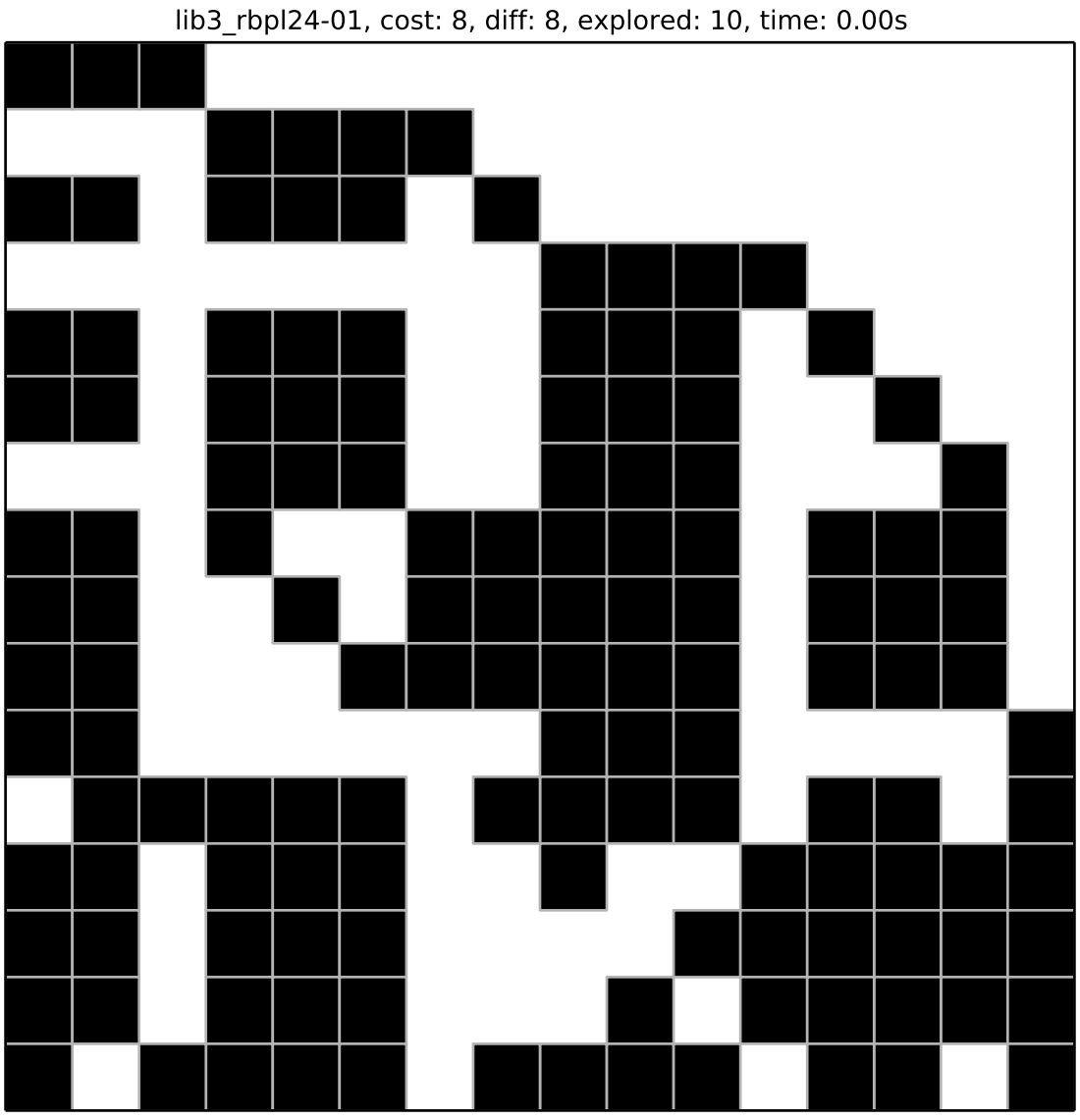
lib3_rbpl24-01 16x16 (138) con: 8, var: 8

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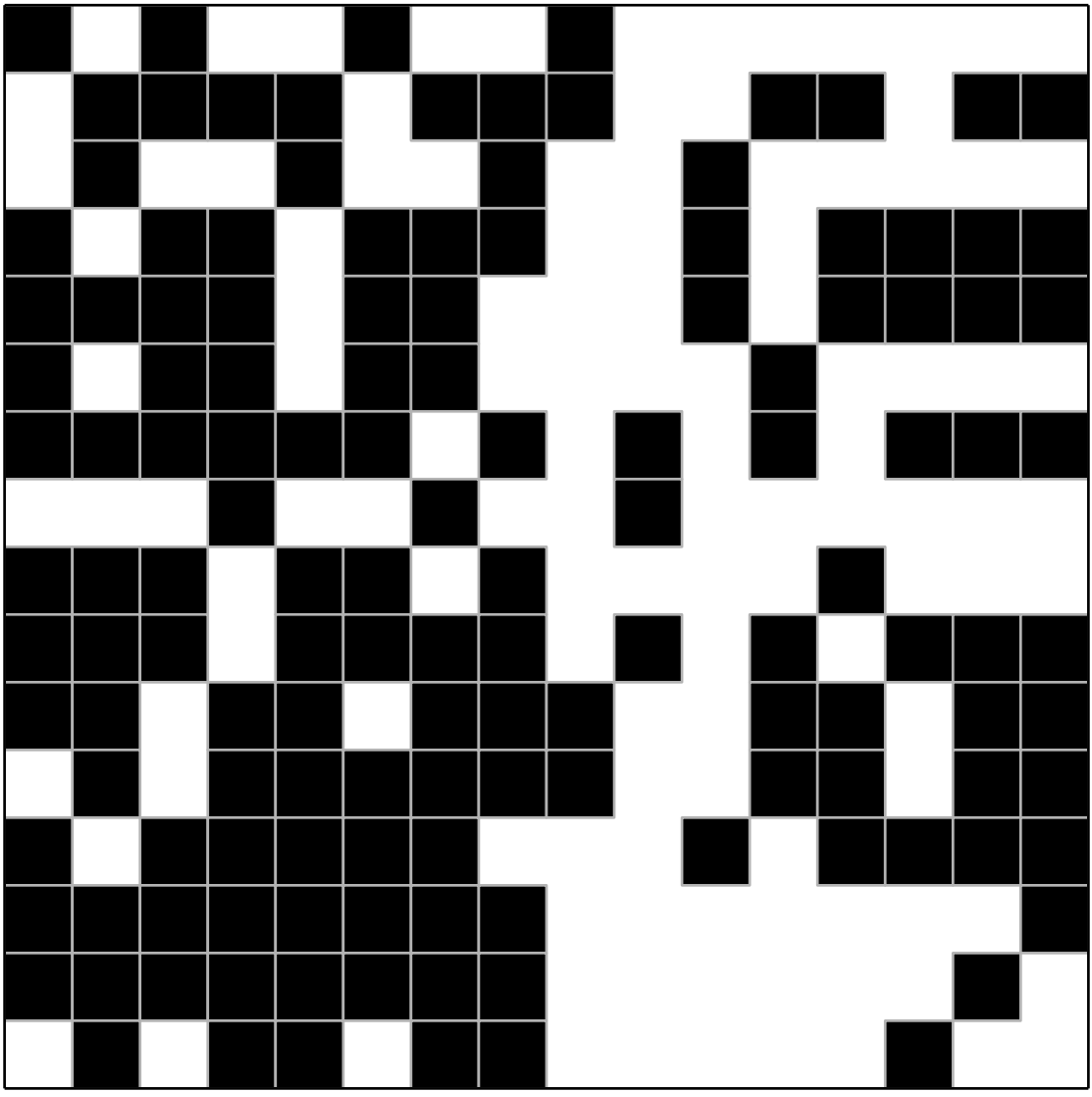
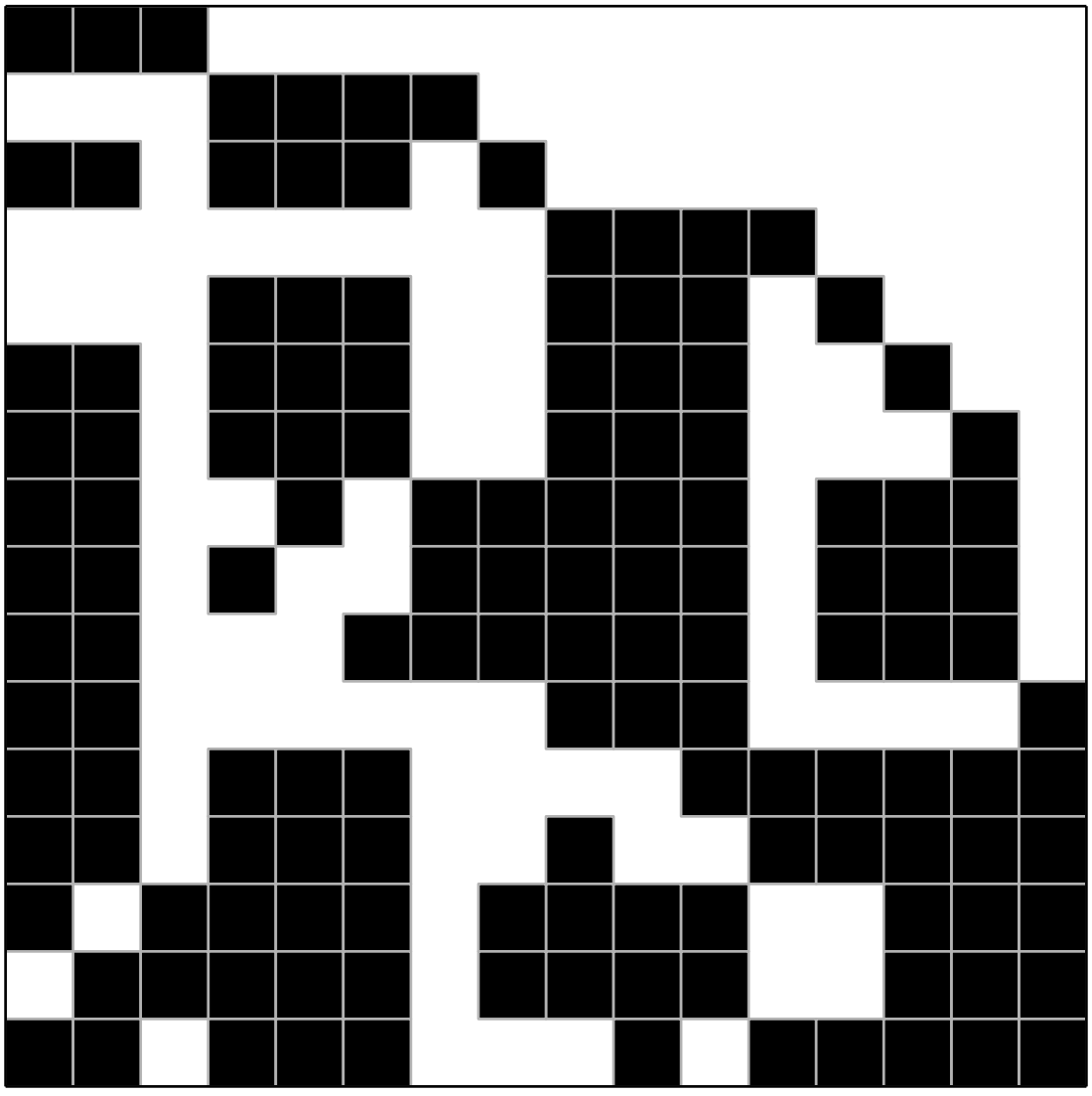
lib3_rbpl24-02 16x16 (138) con: 8, var: 8

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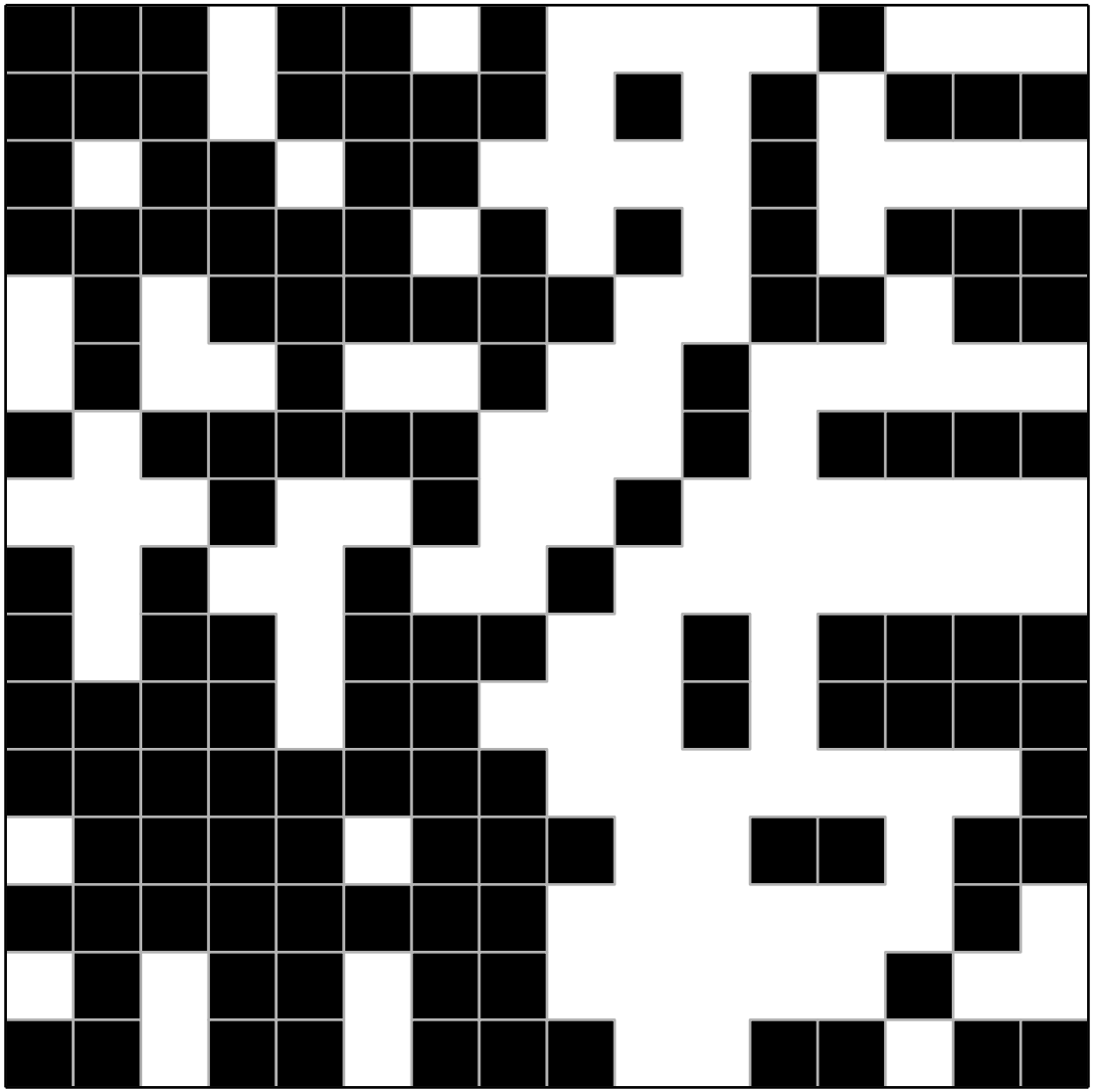

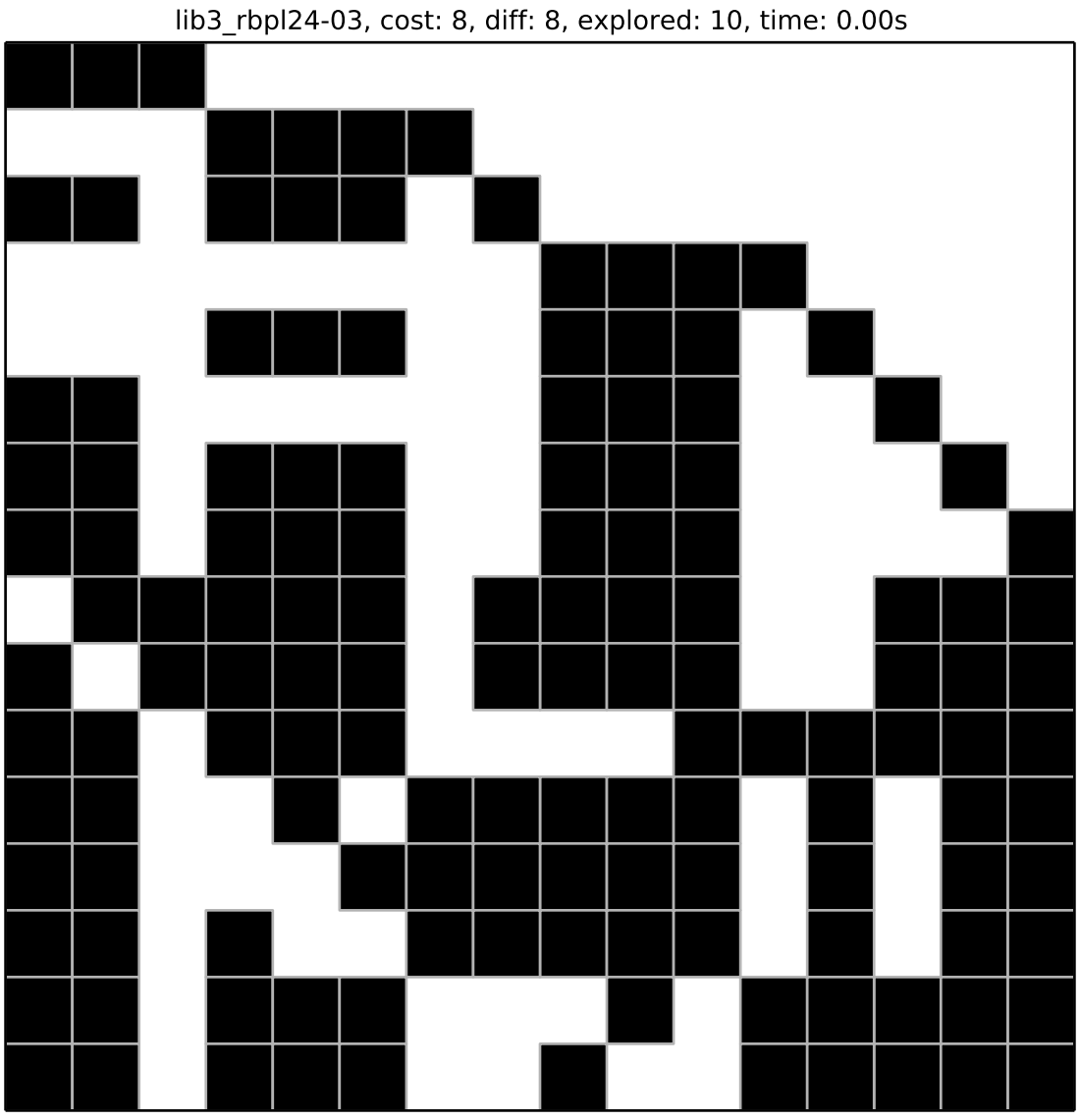
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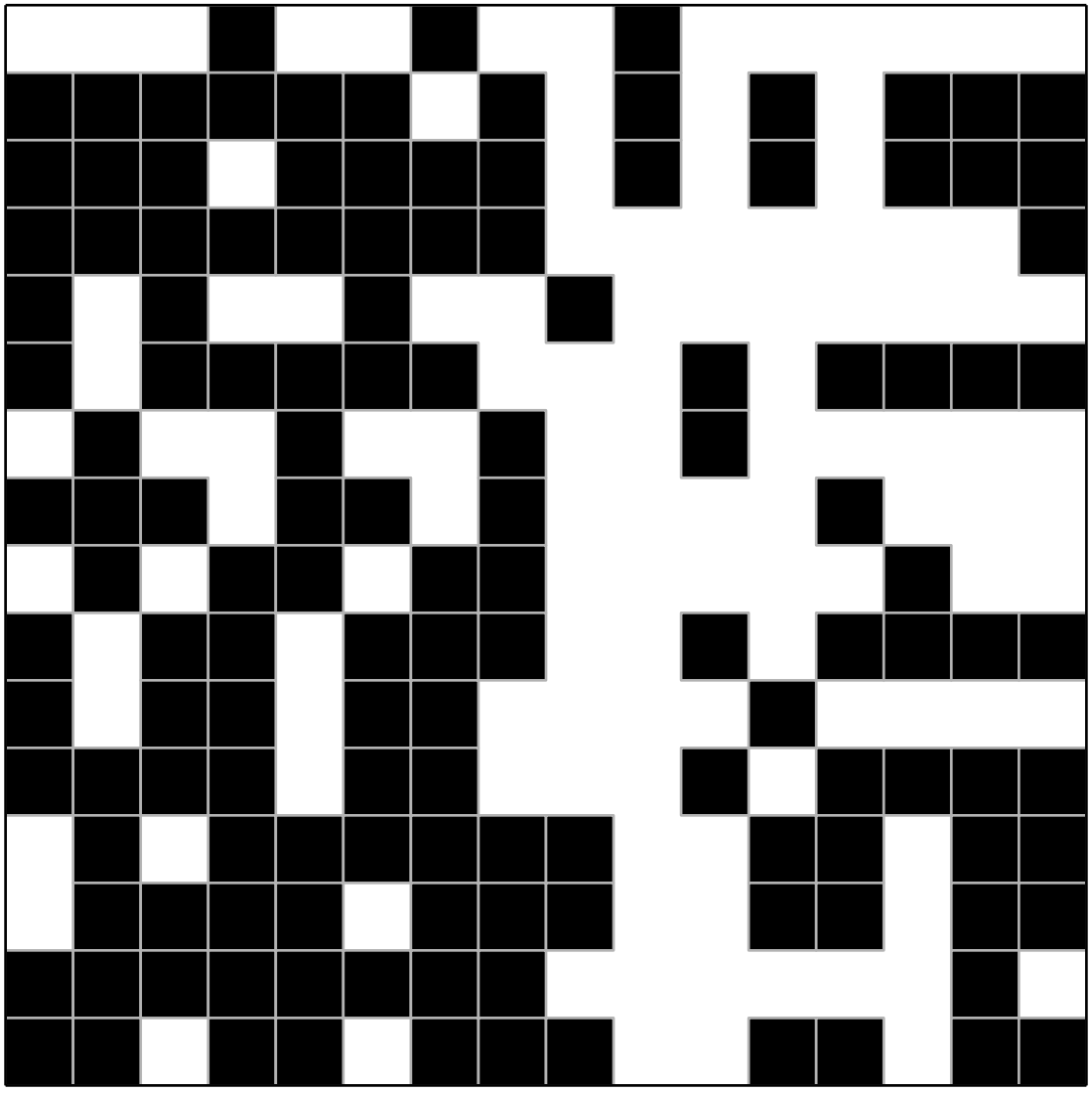

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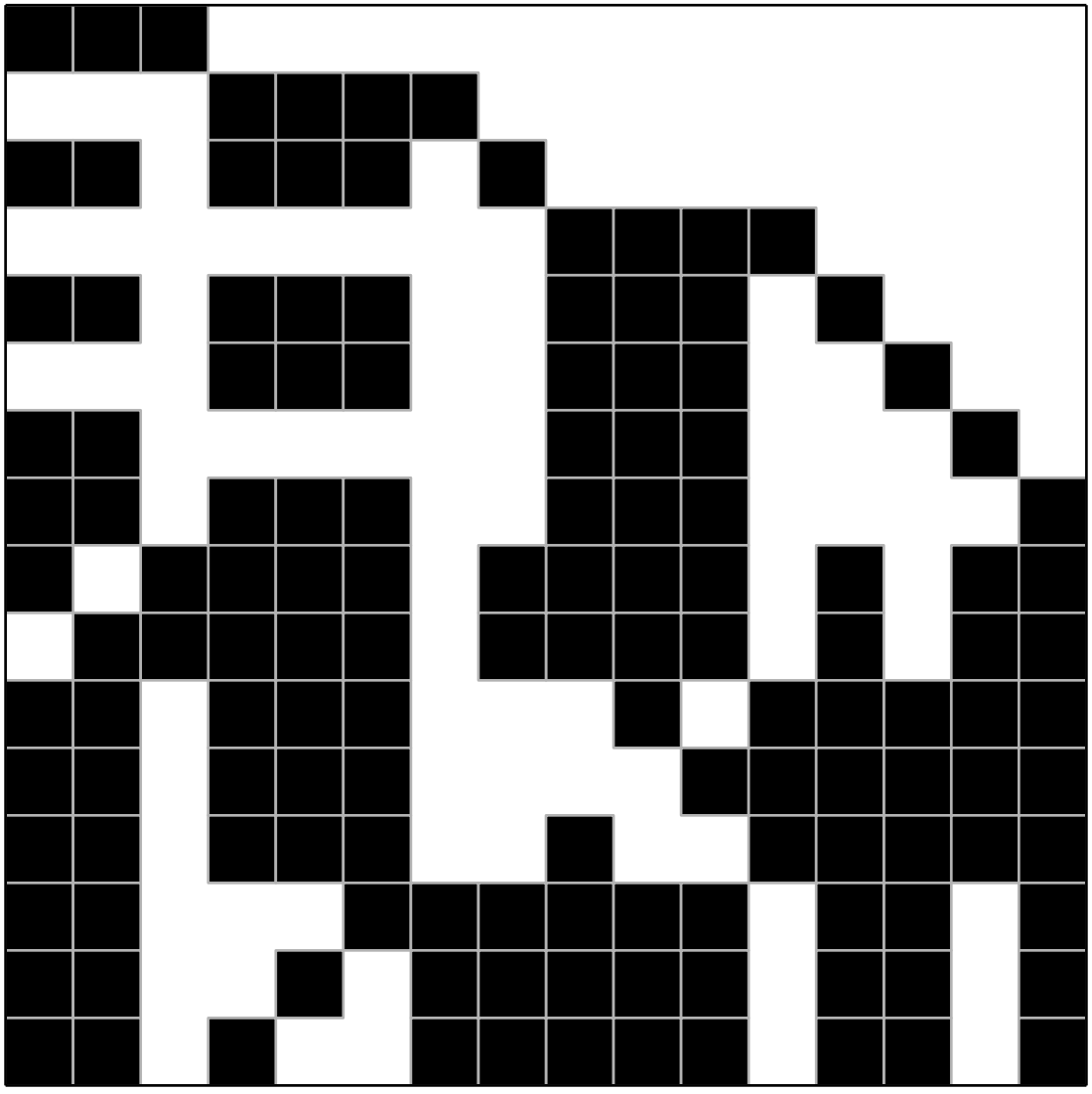

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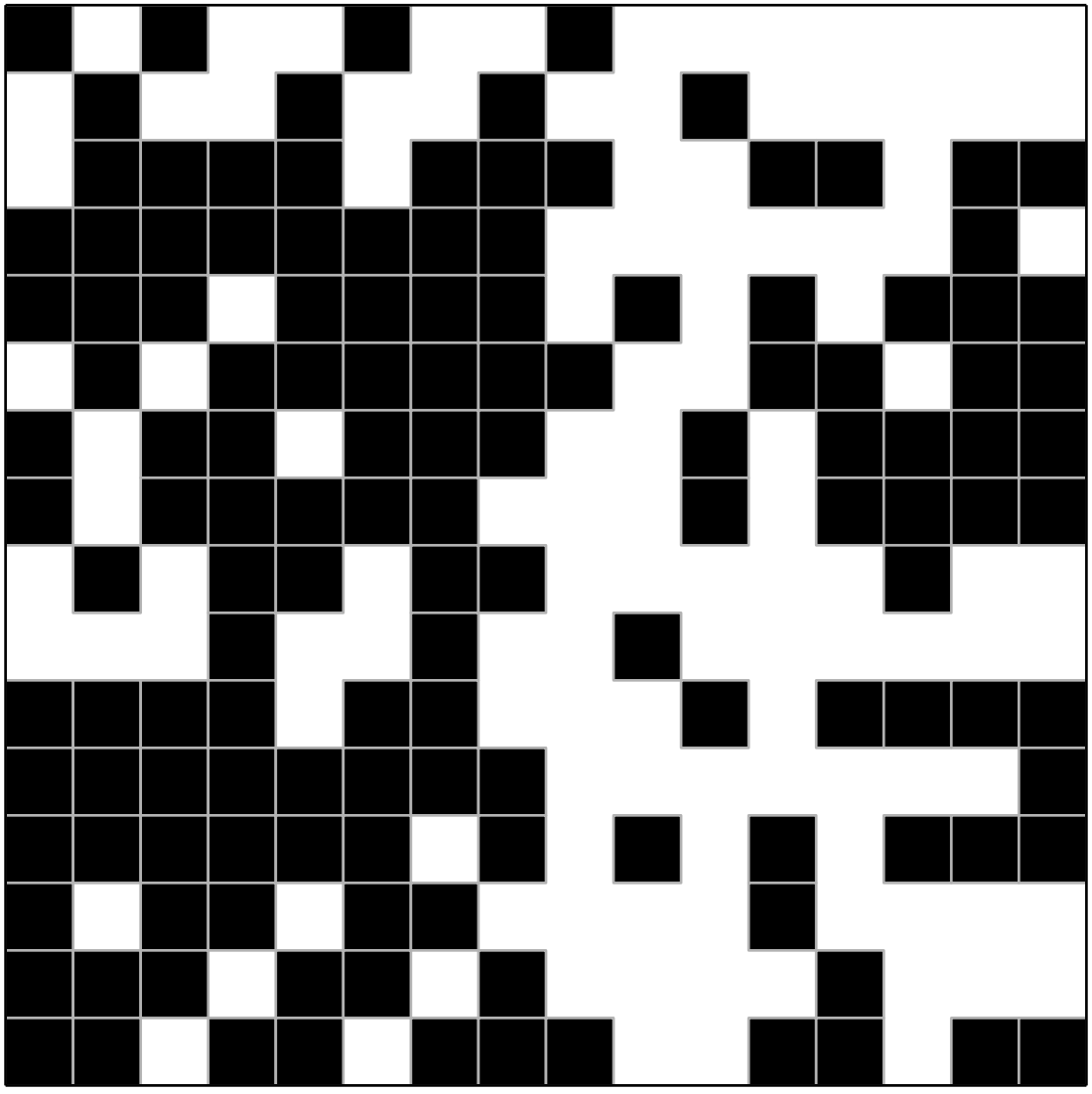

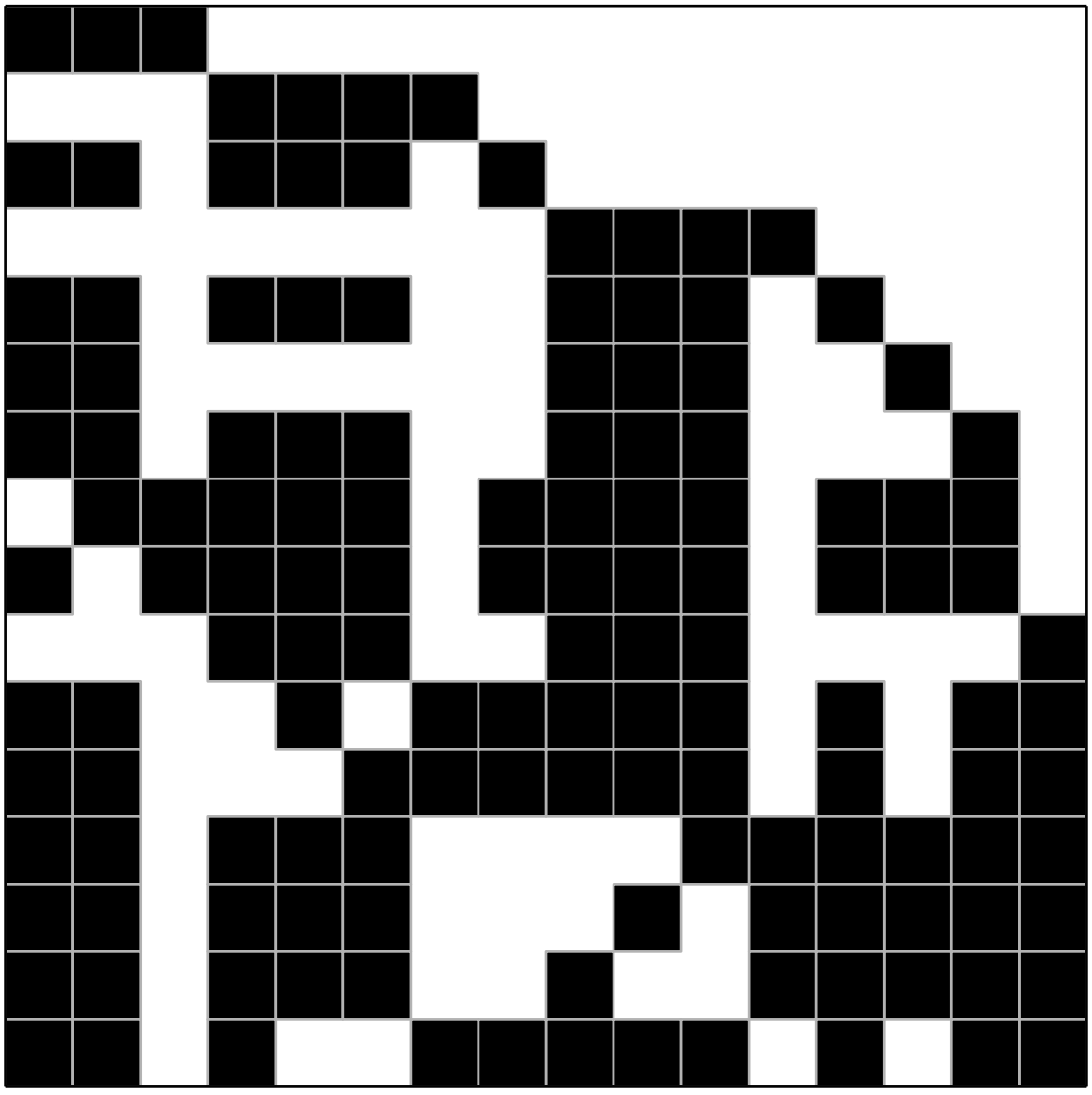
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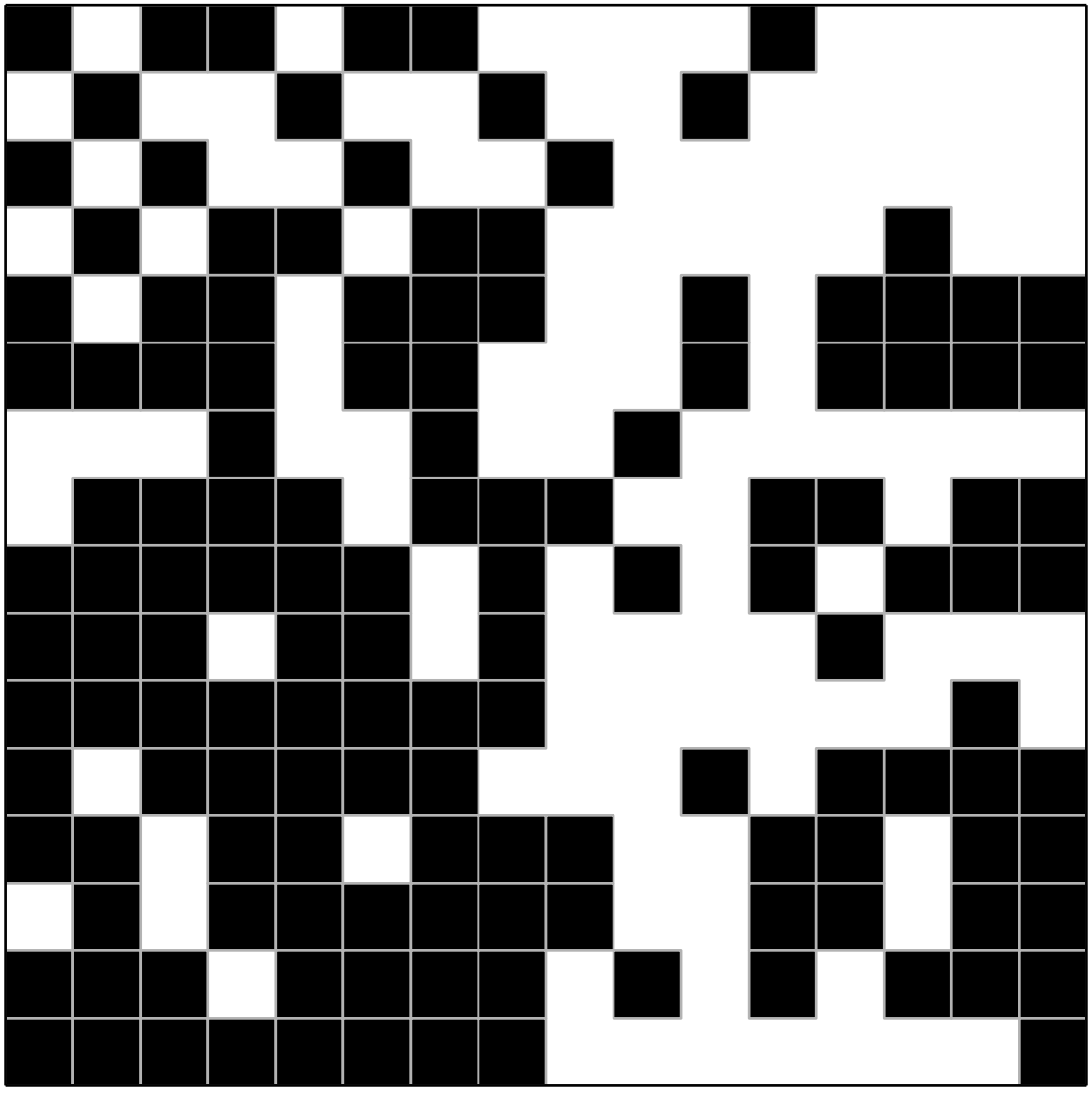

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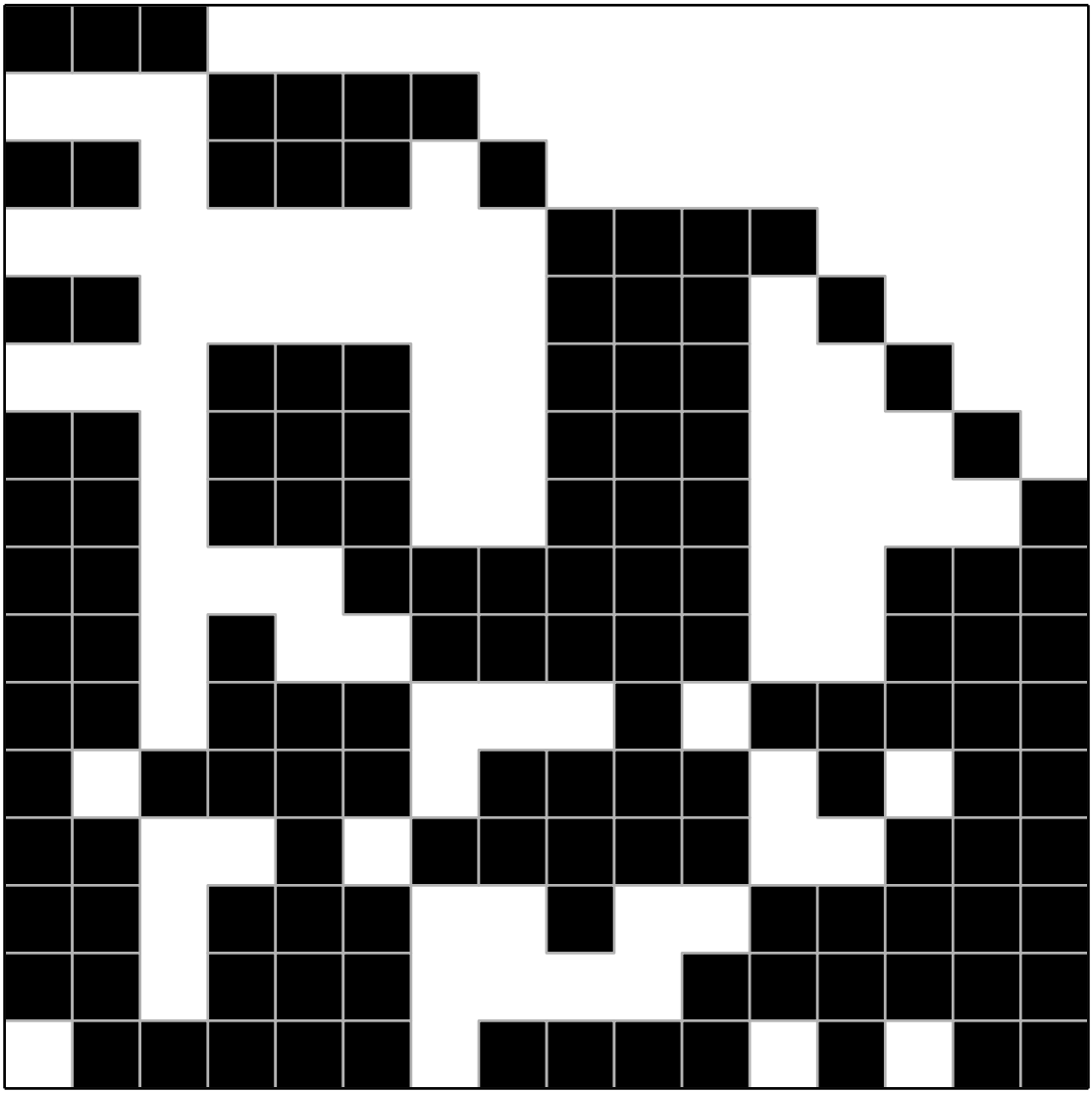
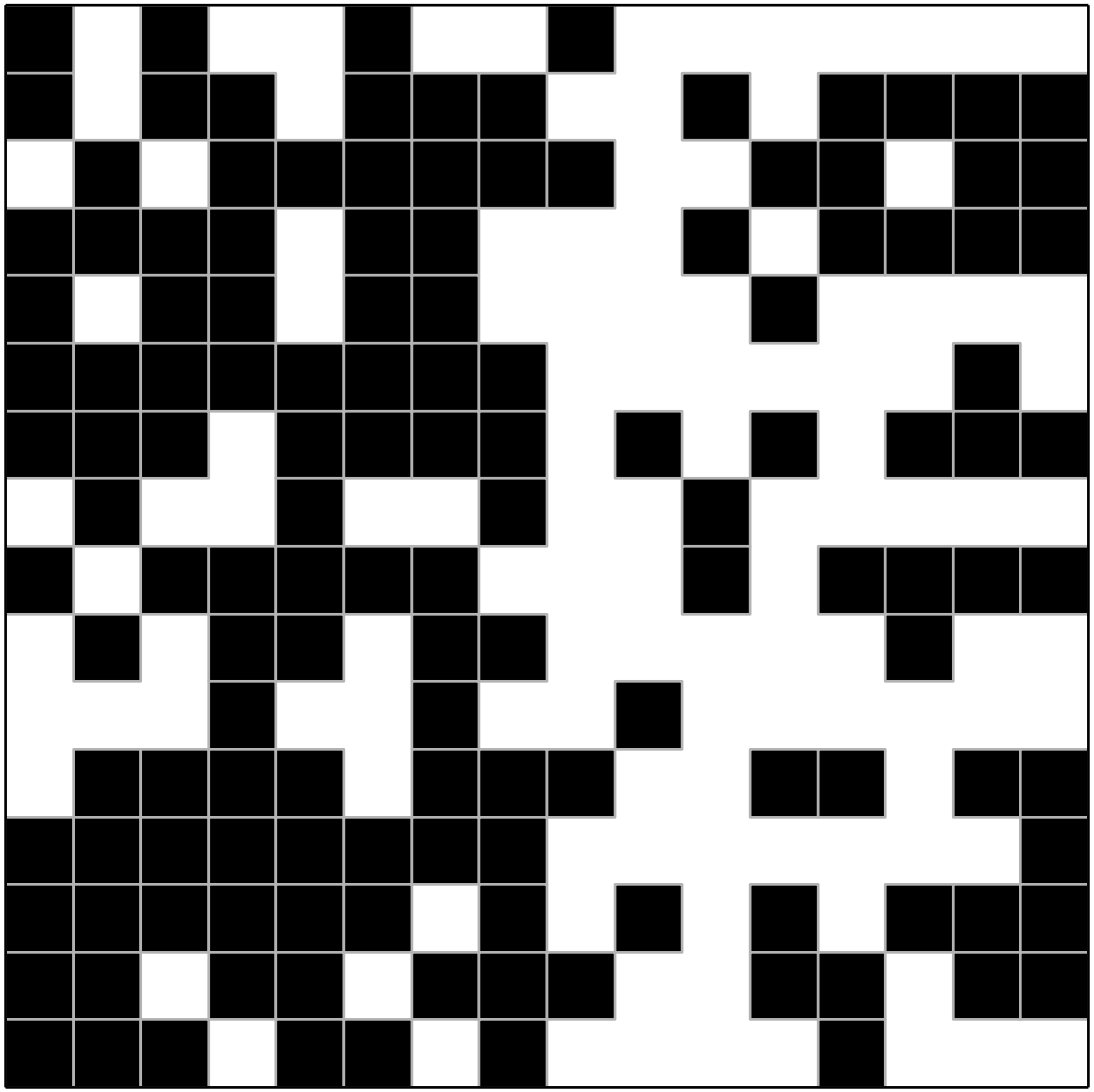
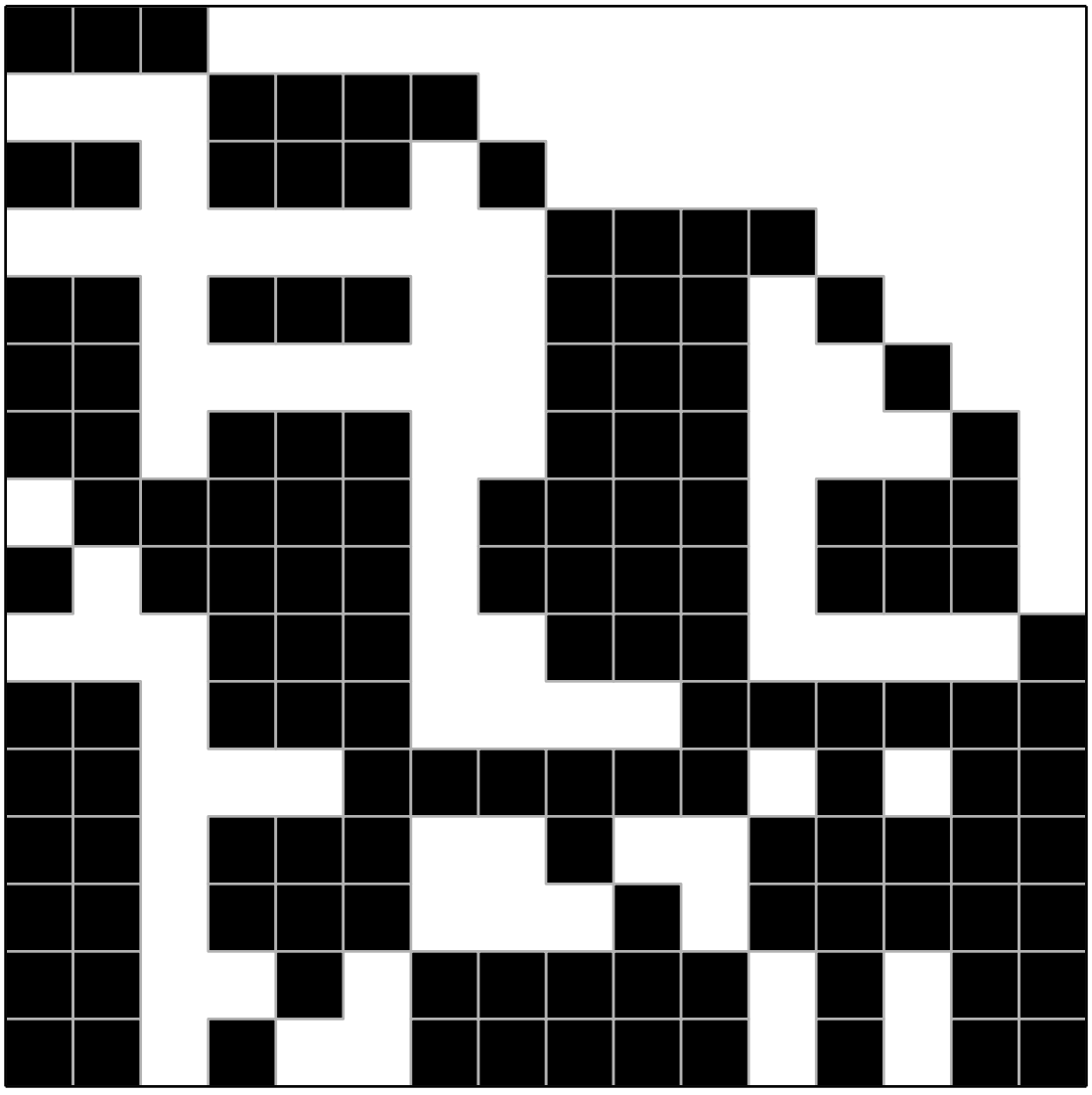


lib3_rbpl24-07 16x16 (138) con: 8, var: 8

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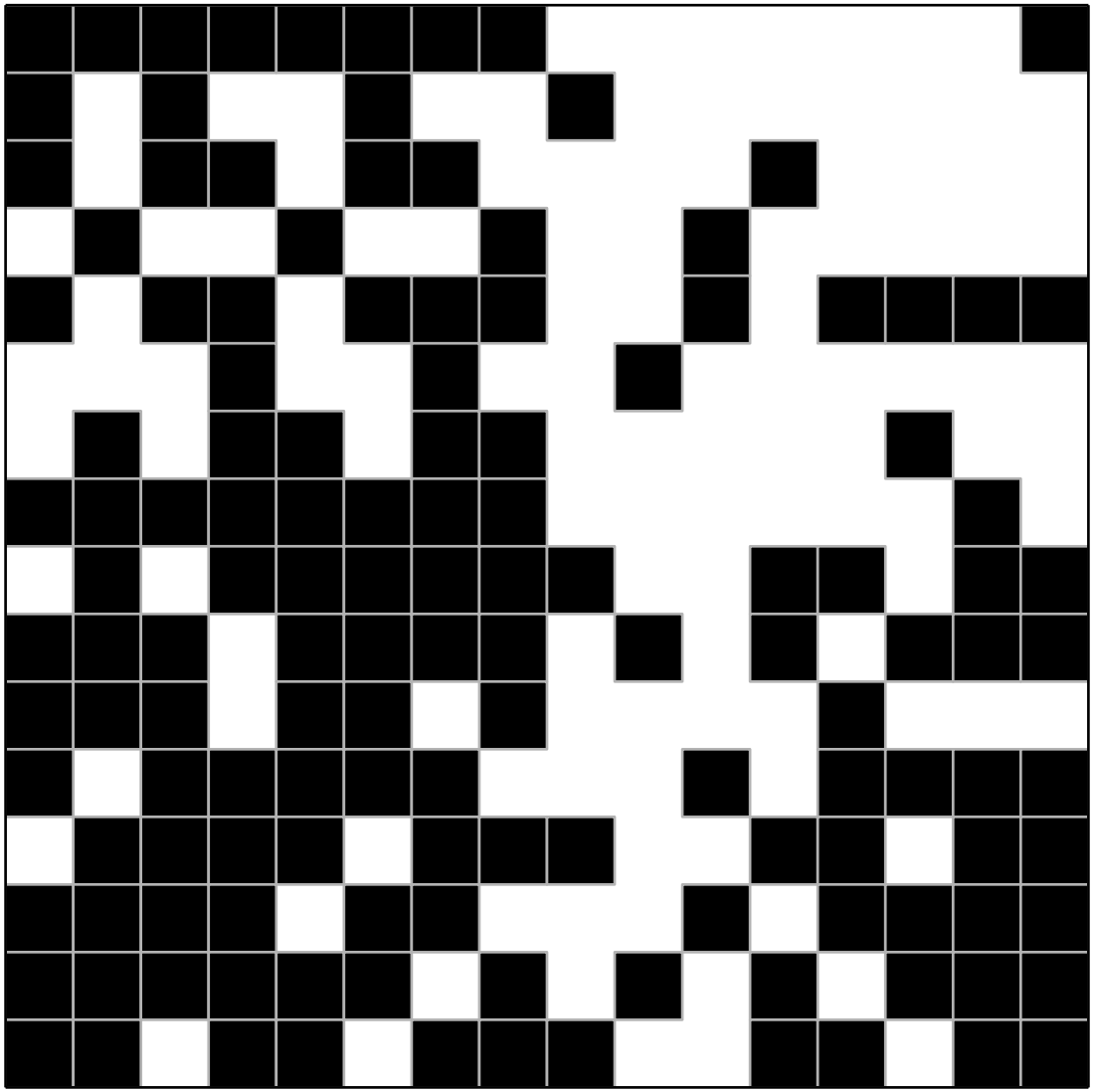
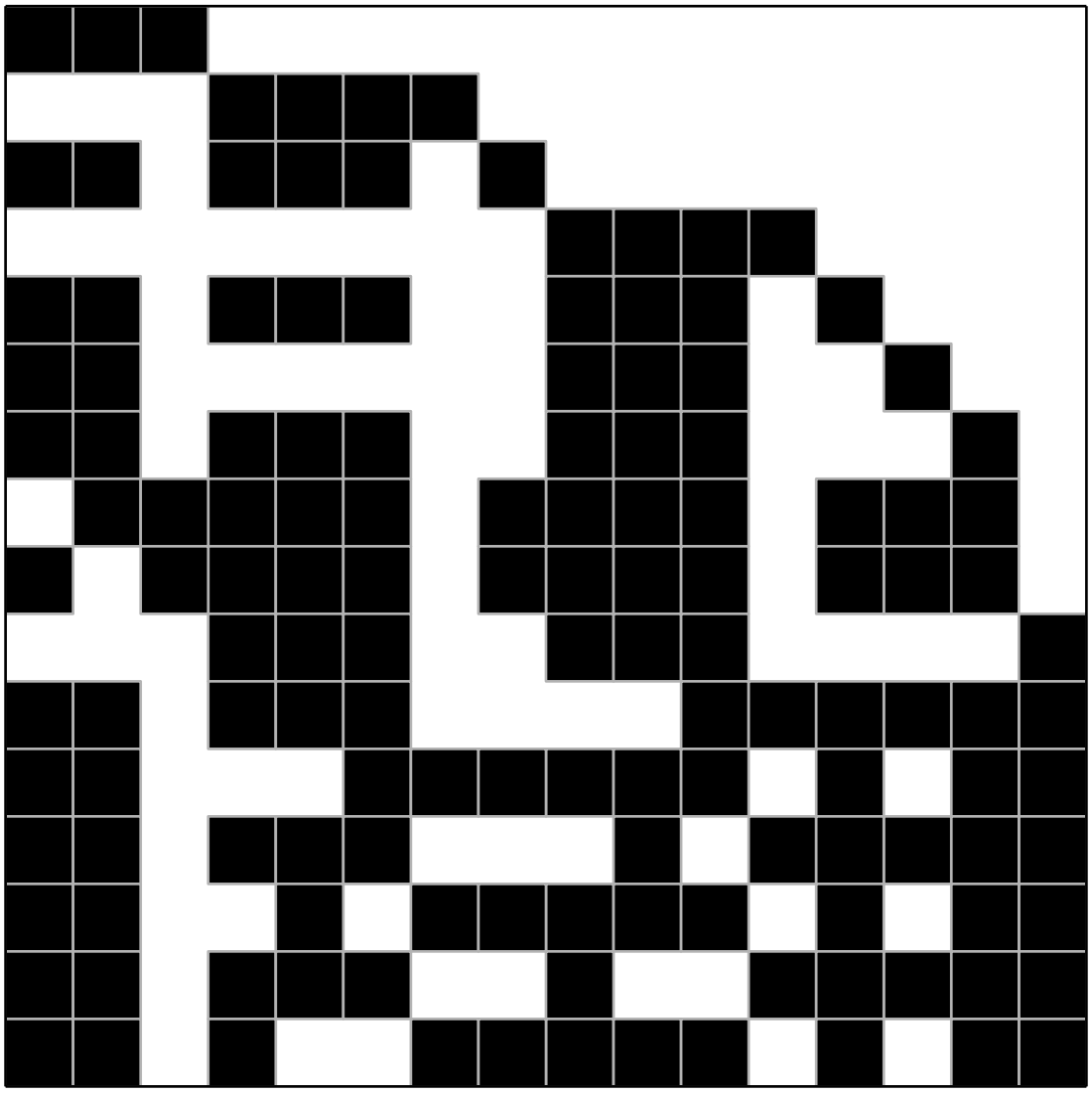
lib3_rbpl24-08 16x16 (138) con: 8, var: 8

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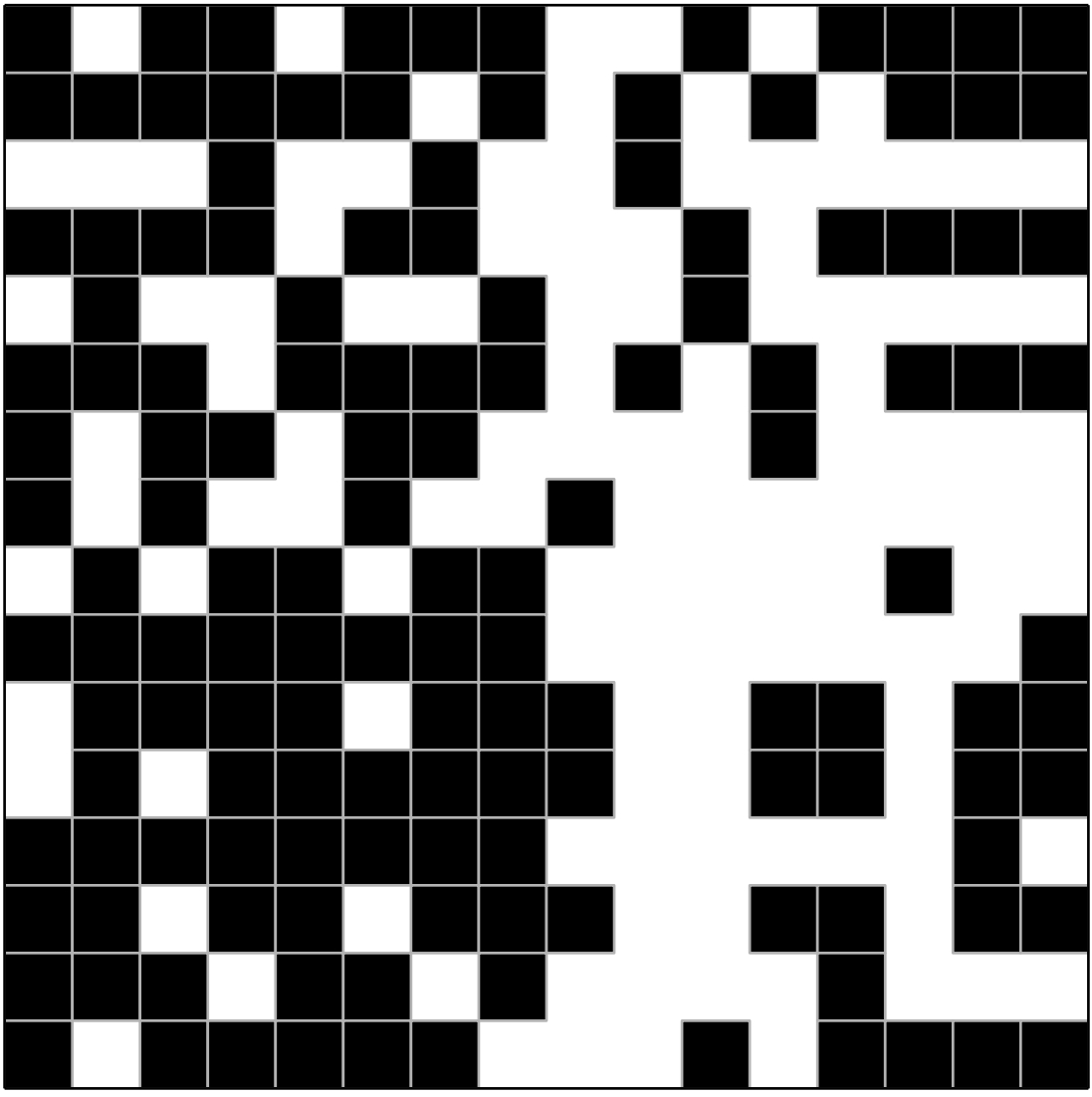

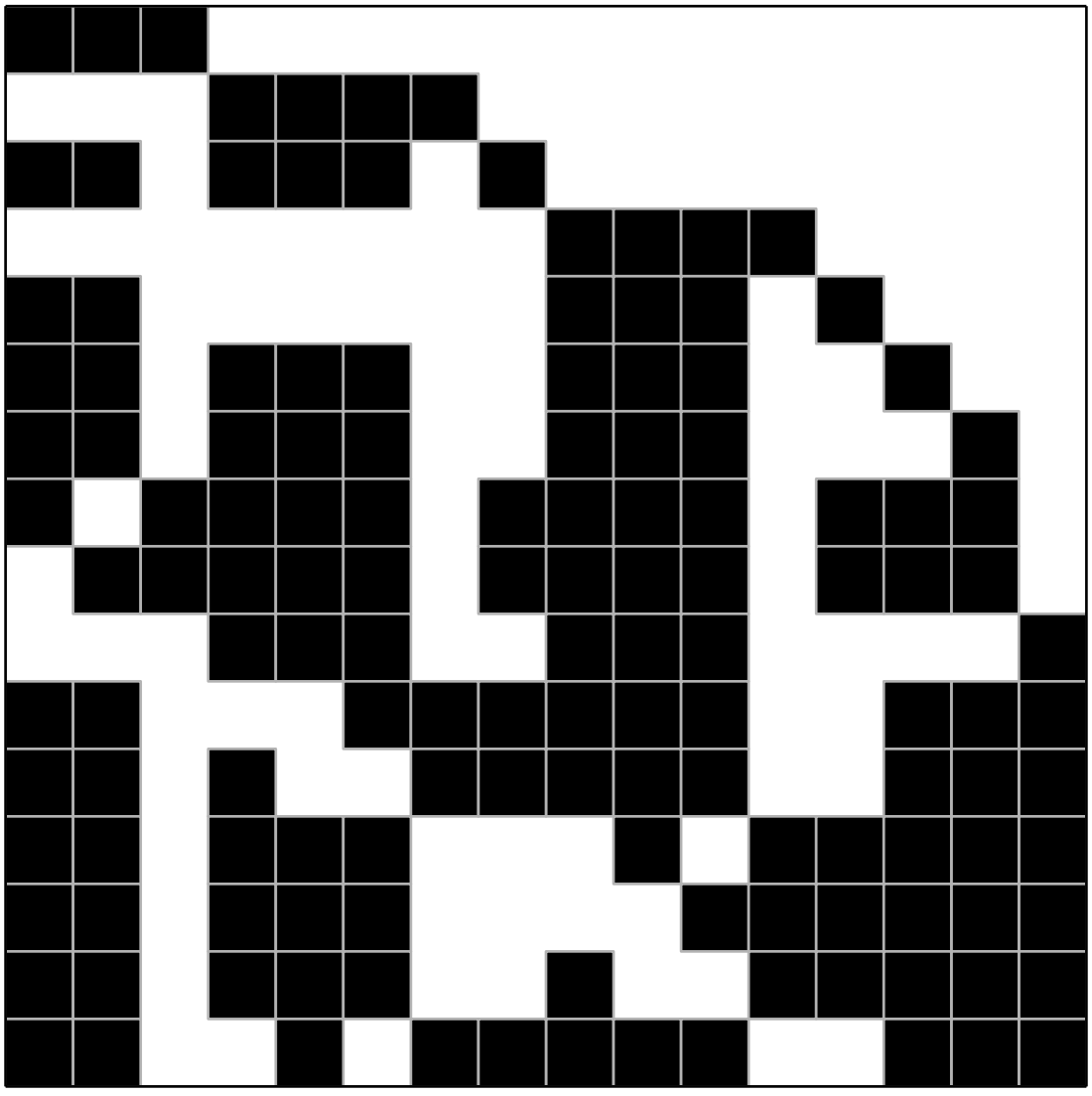
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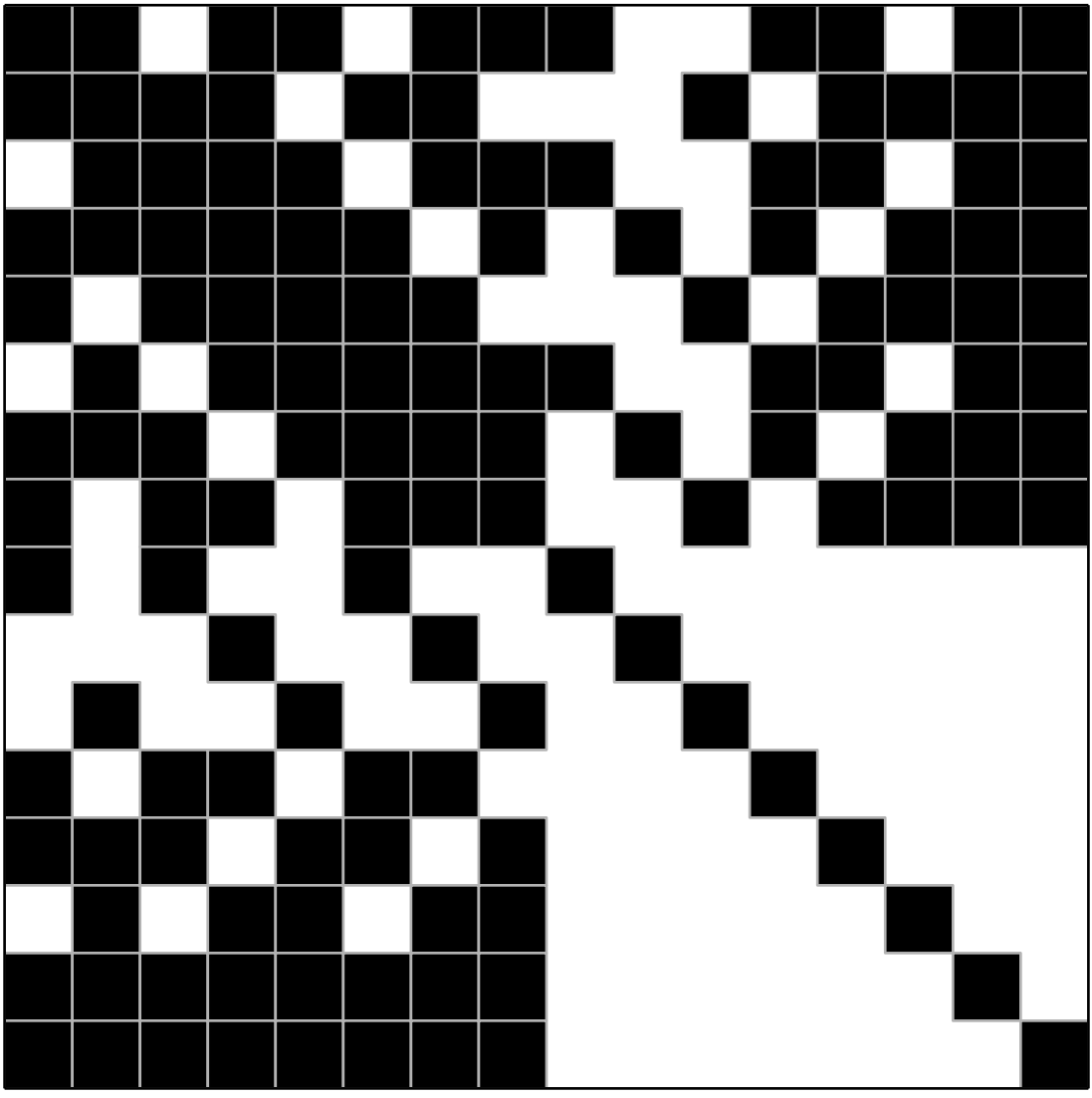
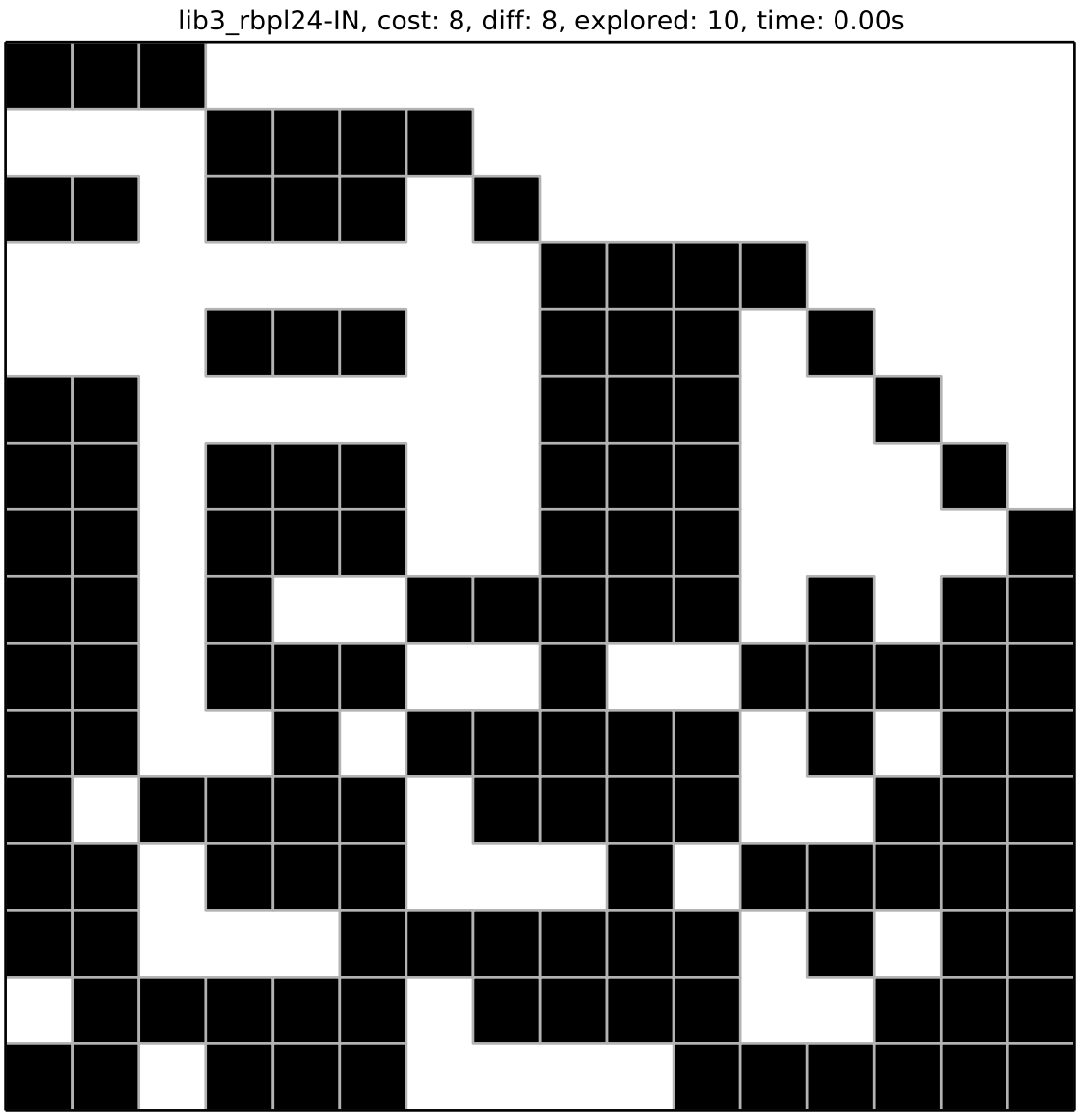
lib3_rbpl24-IN 16x16 (138) con: 8, var: 8

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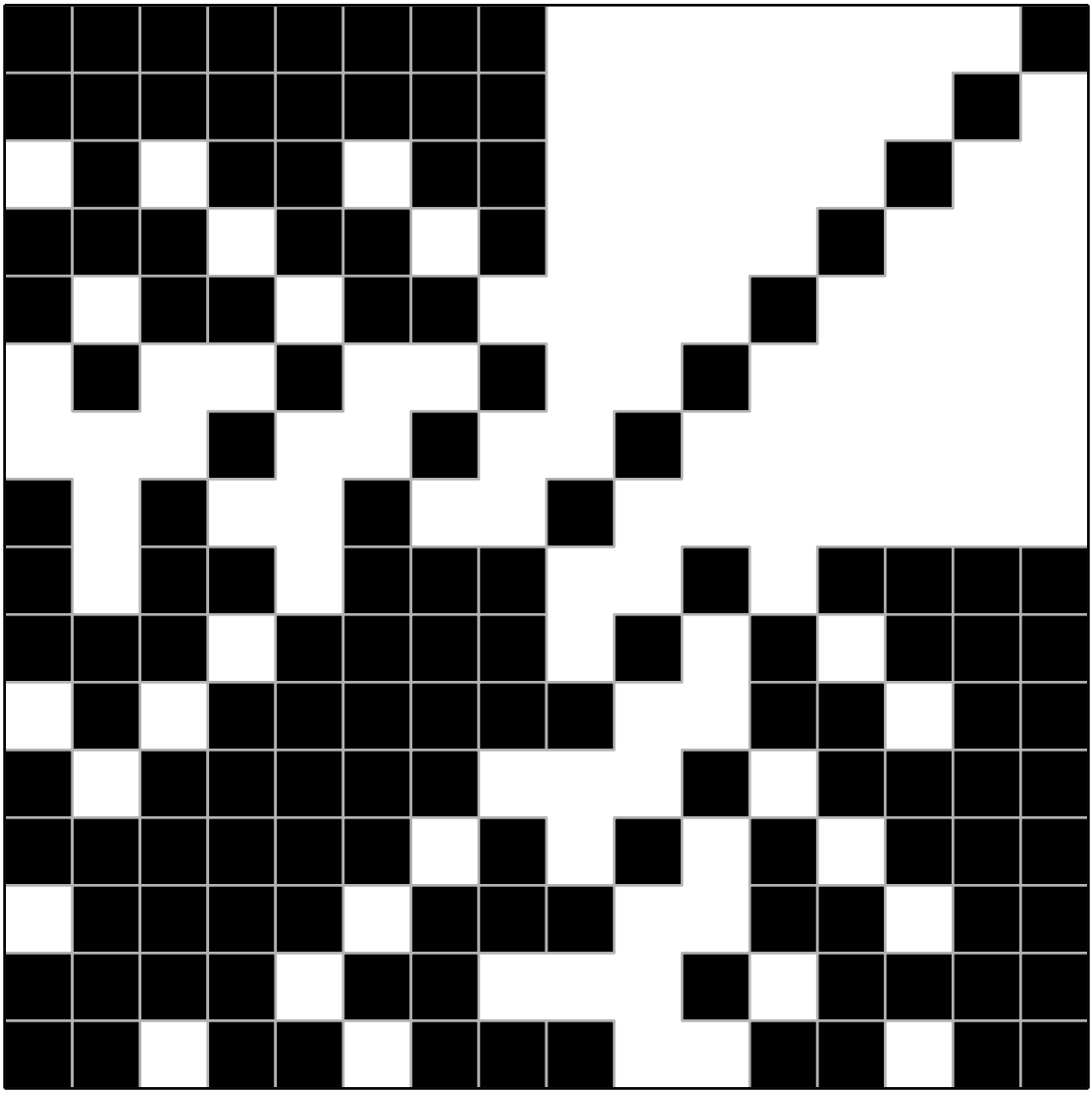

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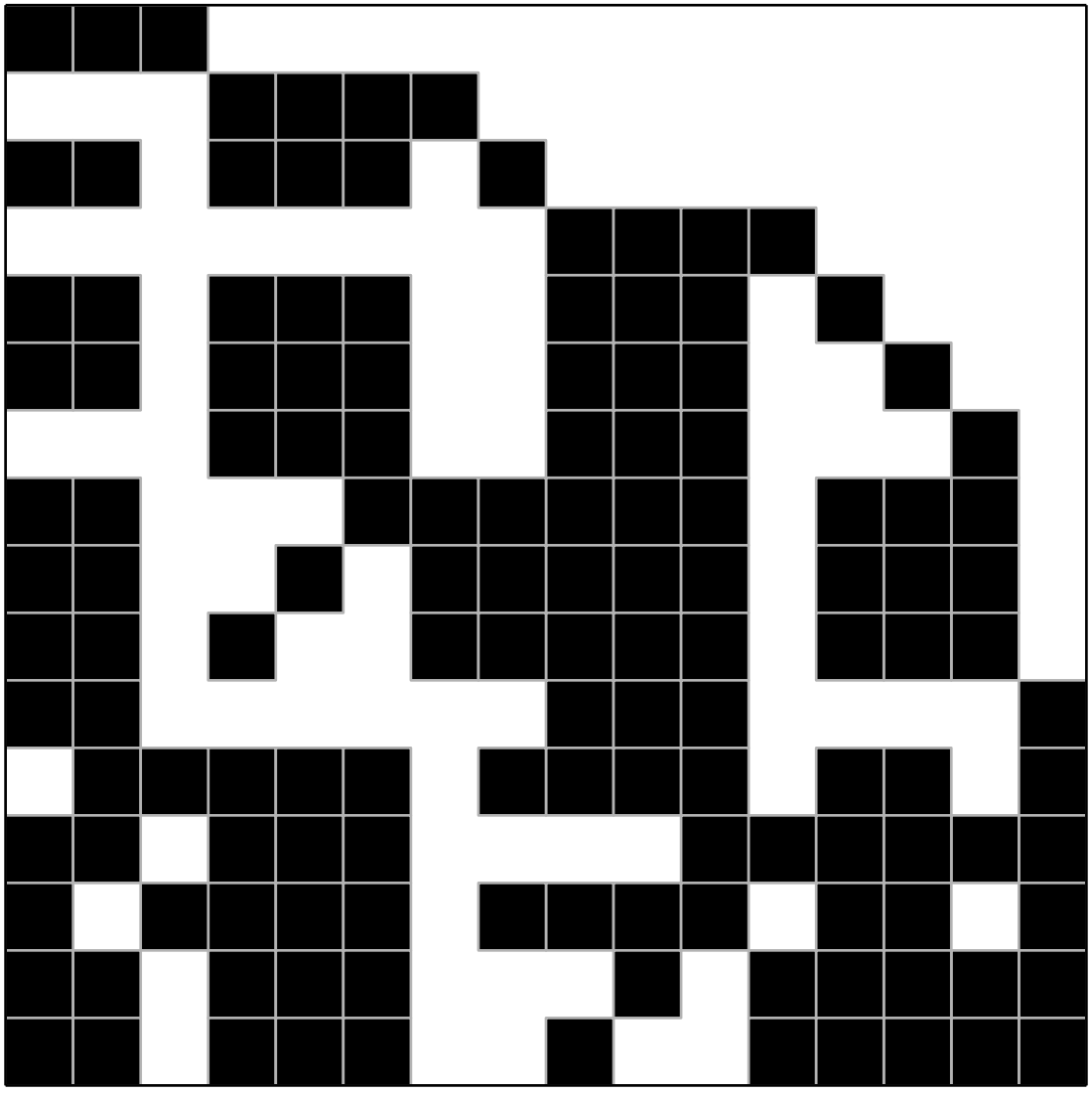
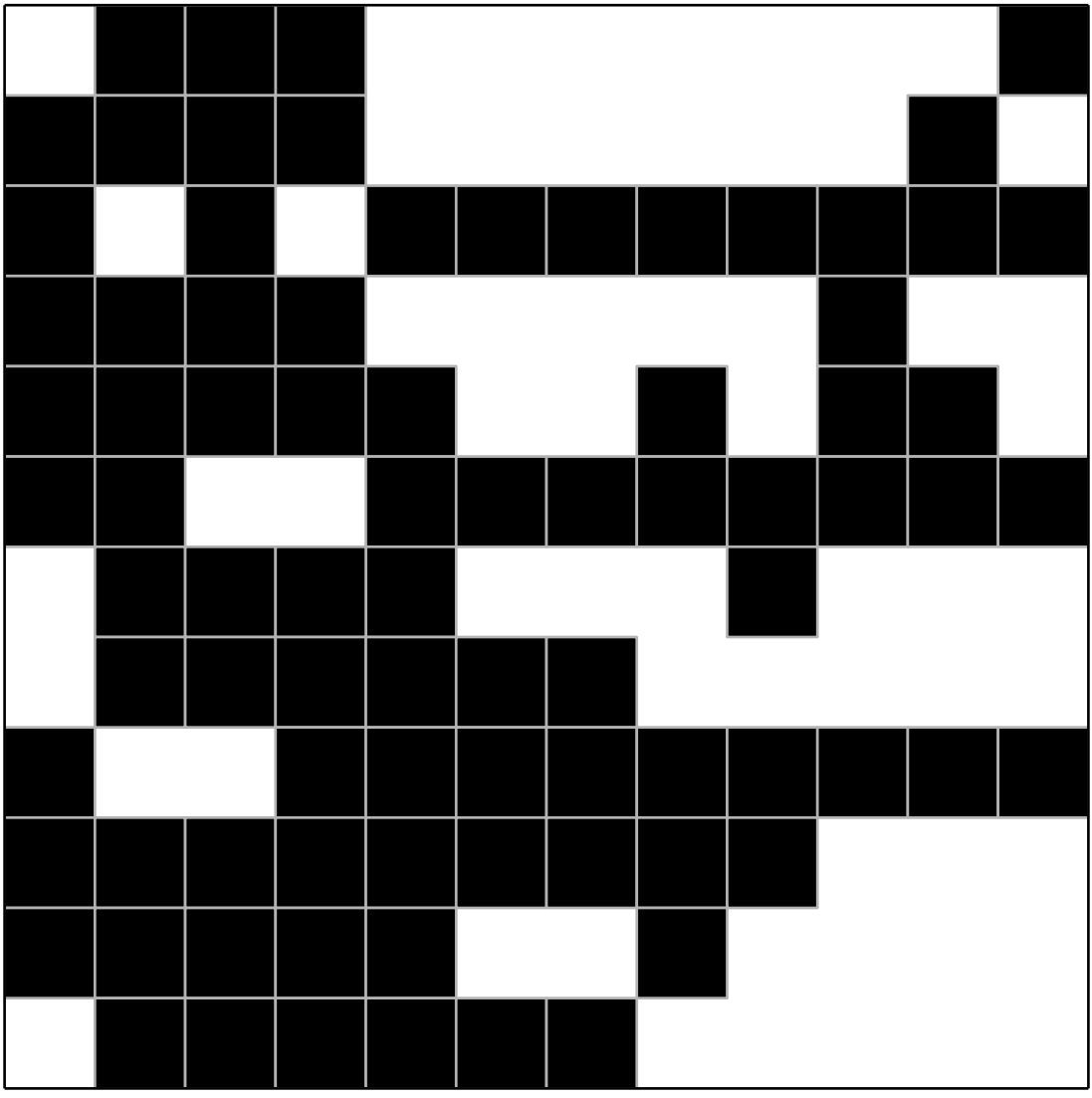
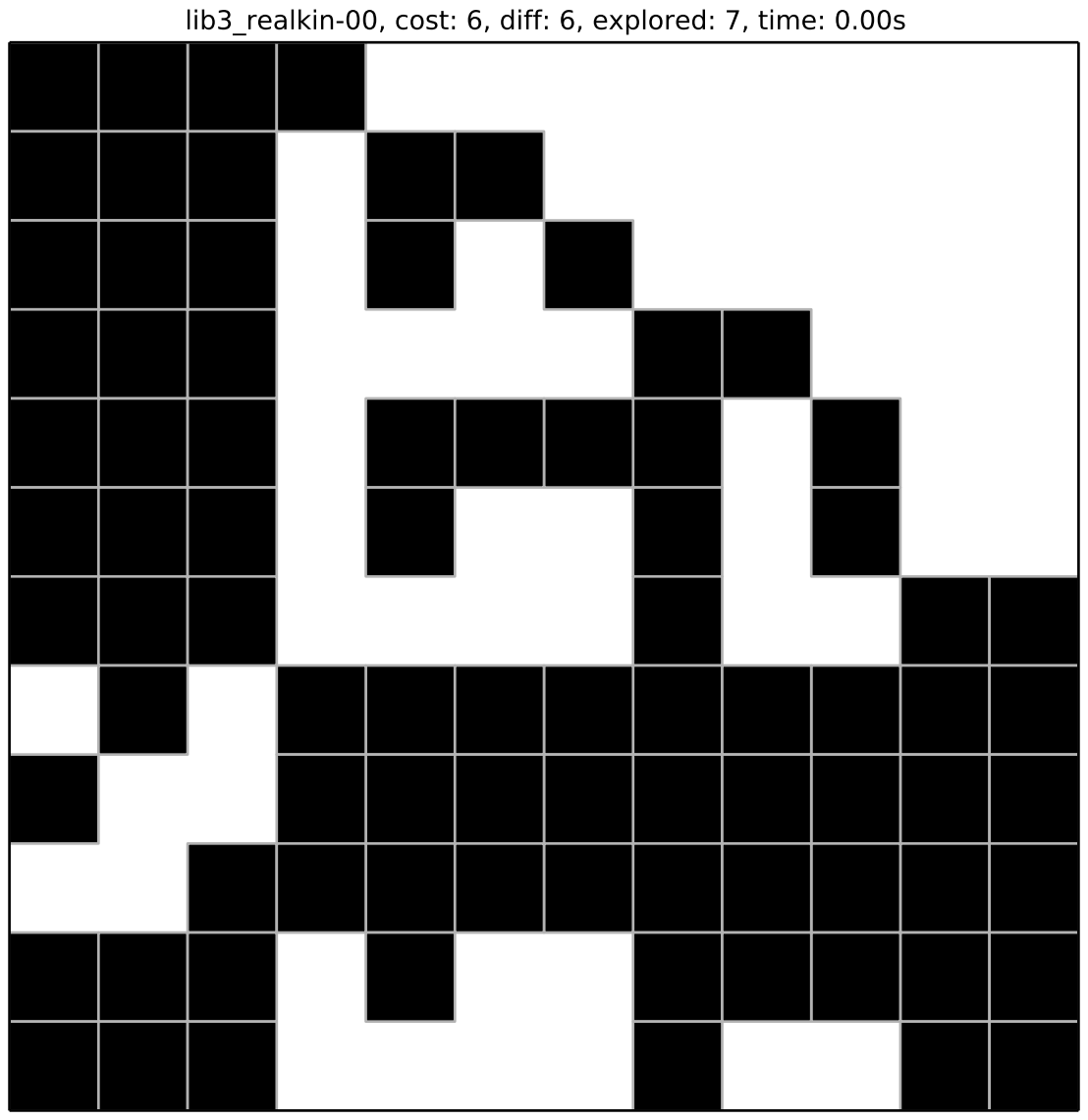


lib3_realkin-00 12x12 (84) con: 6, var: 6

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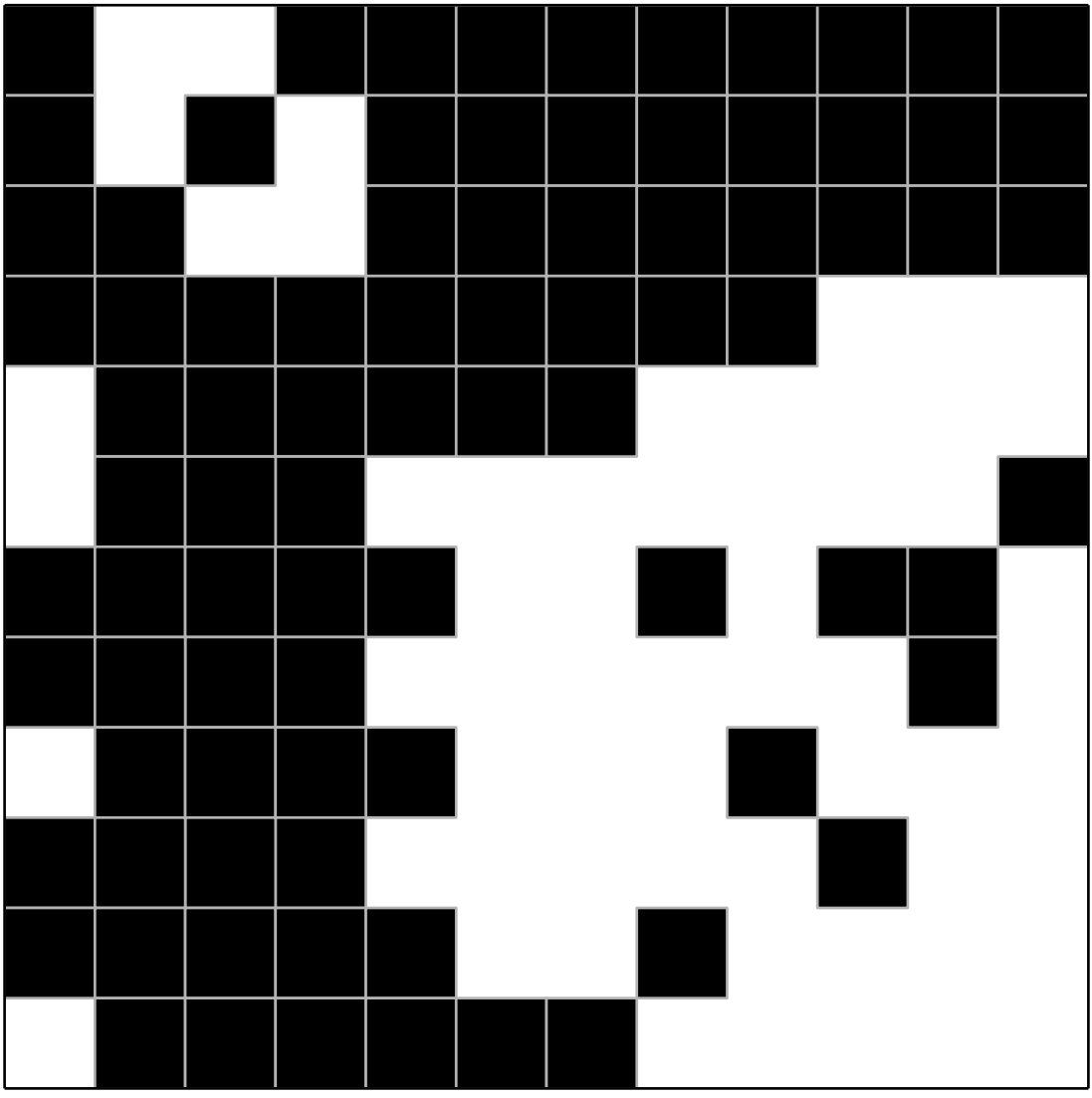
lib3_realkin-01 12x12 (84) con: 6, var: 6



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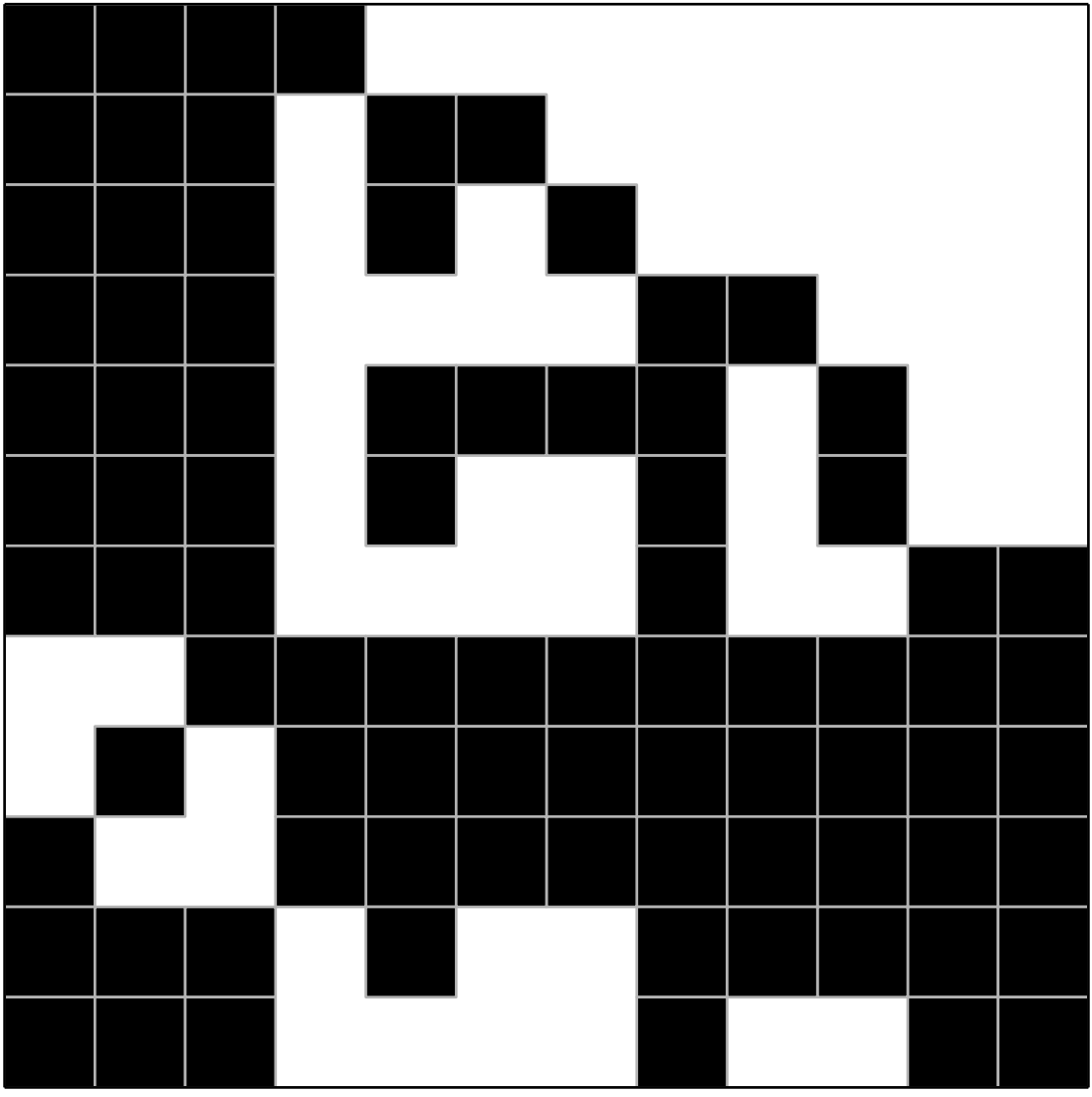
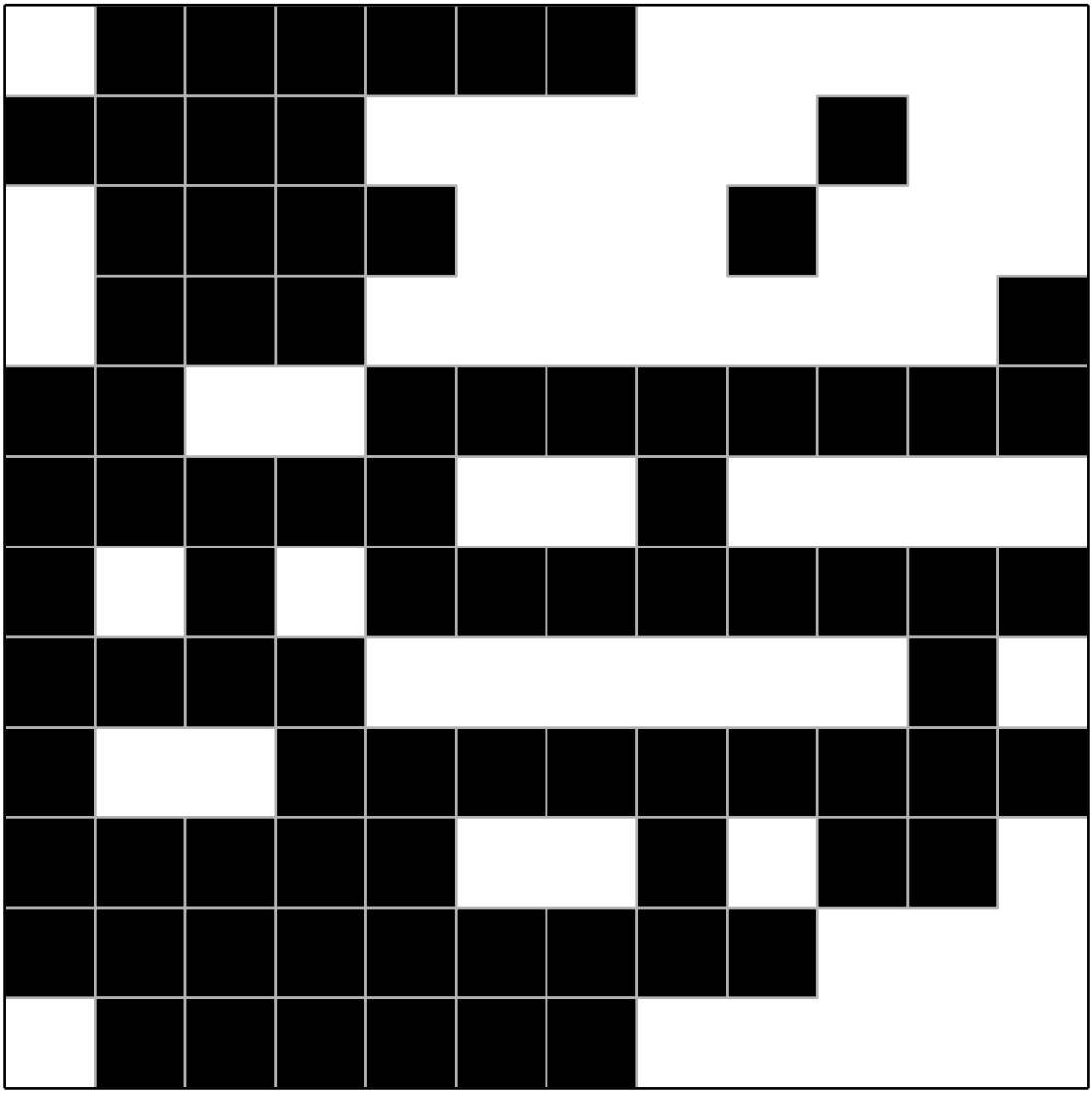
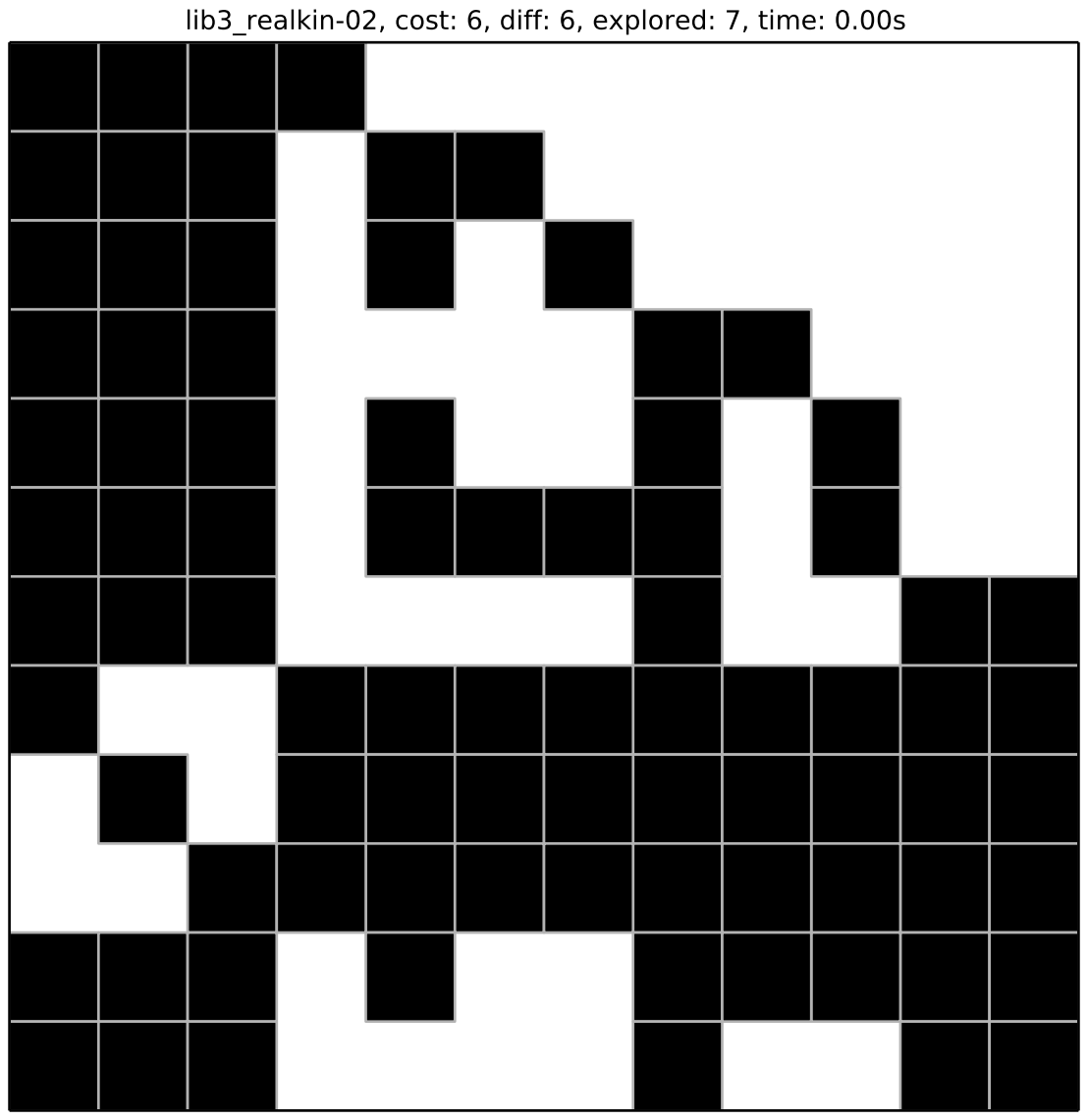


lib3_realkin-02 12x12 (84) con: 6, var: 6

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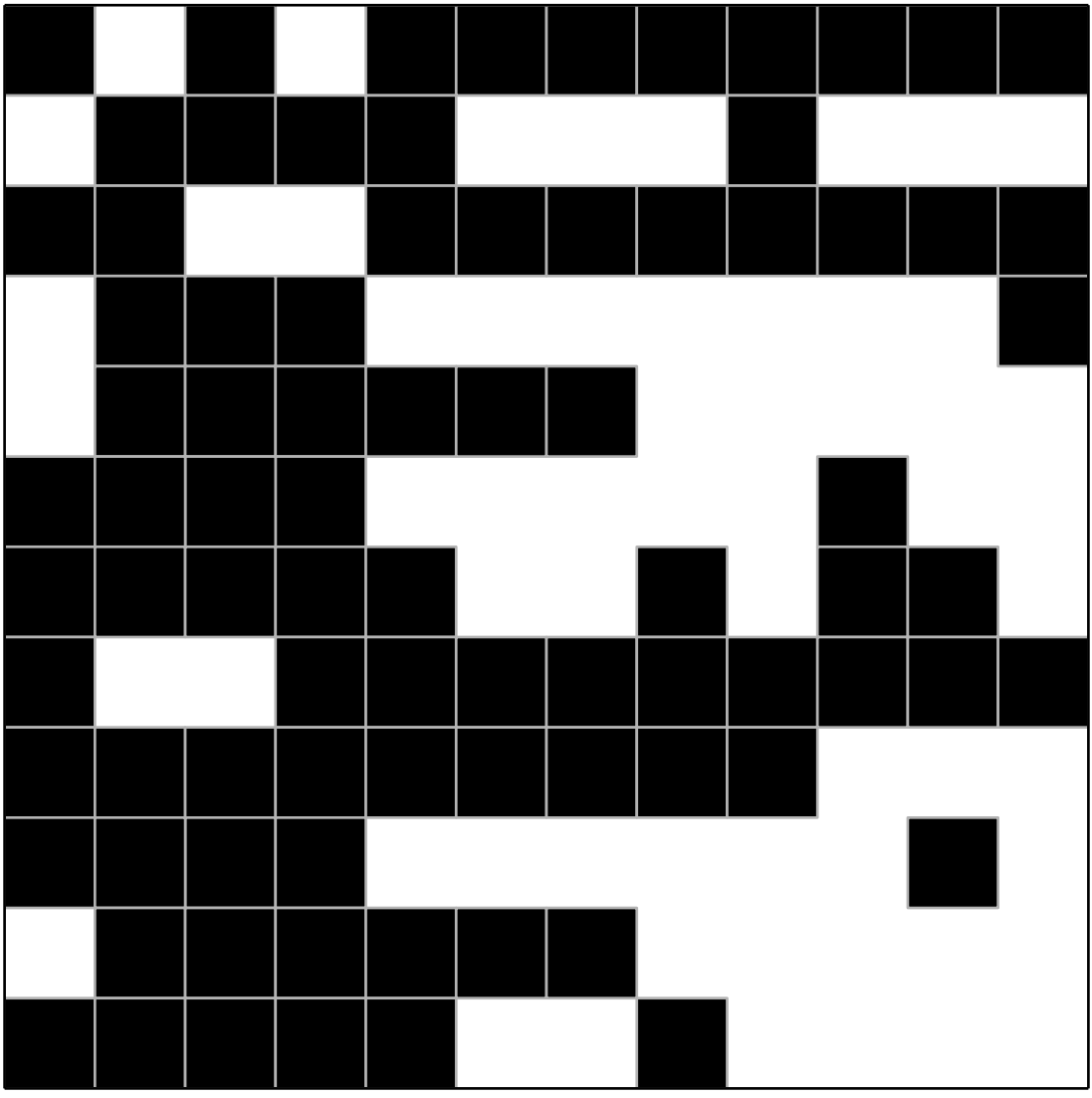
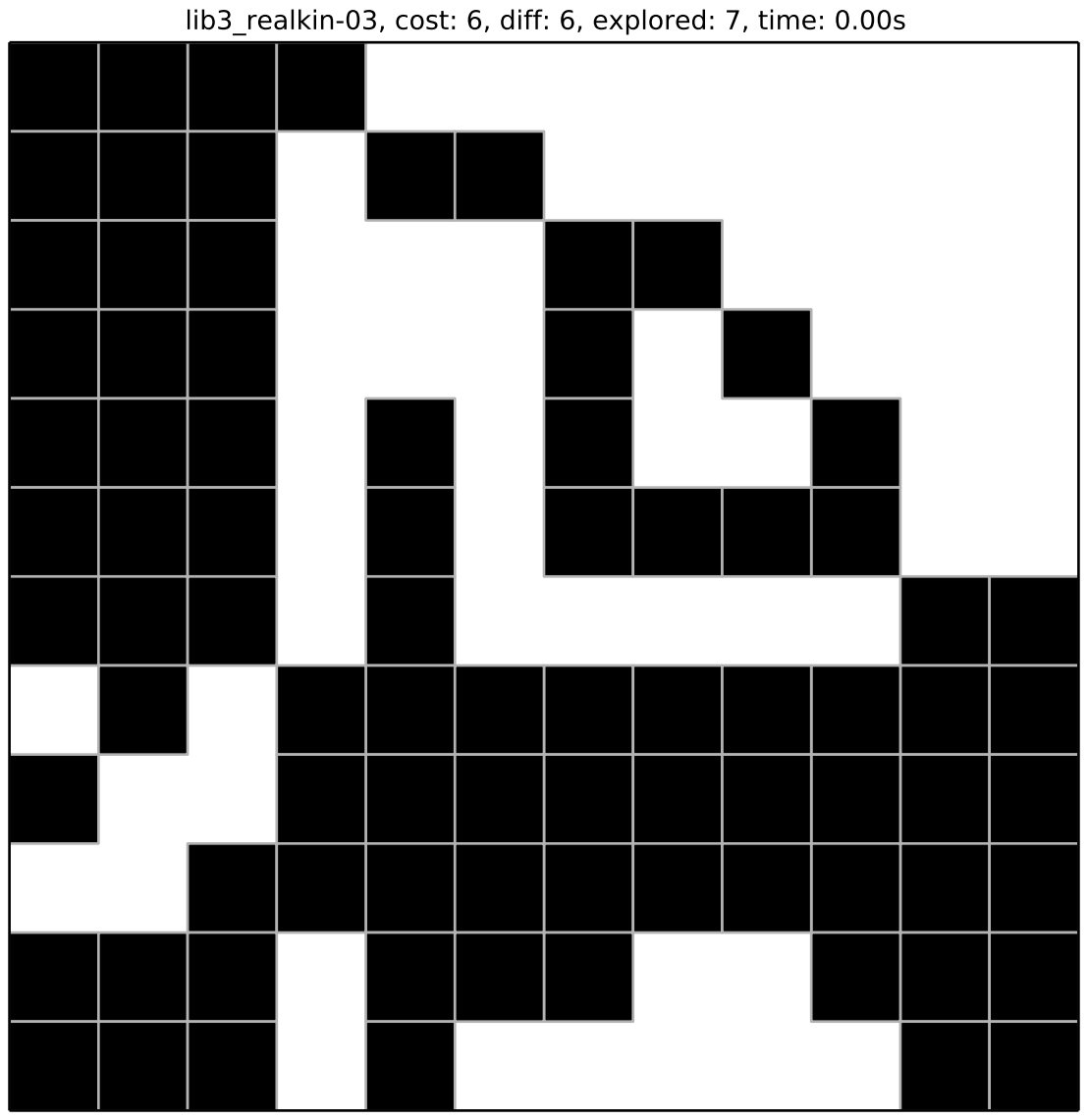
lib3_realkin-03 12x12 (84) con: 6, var: 6

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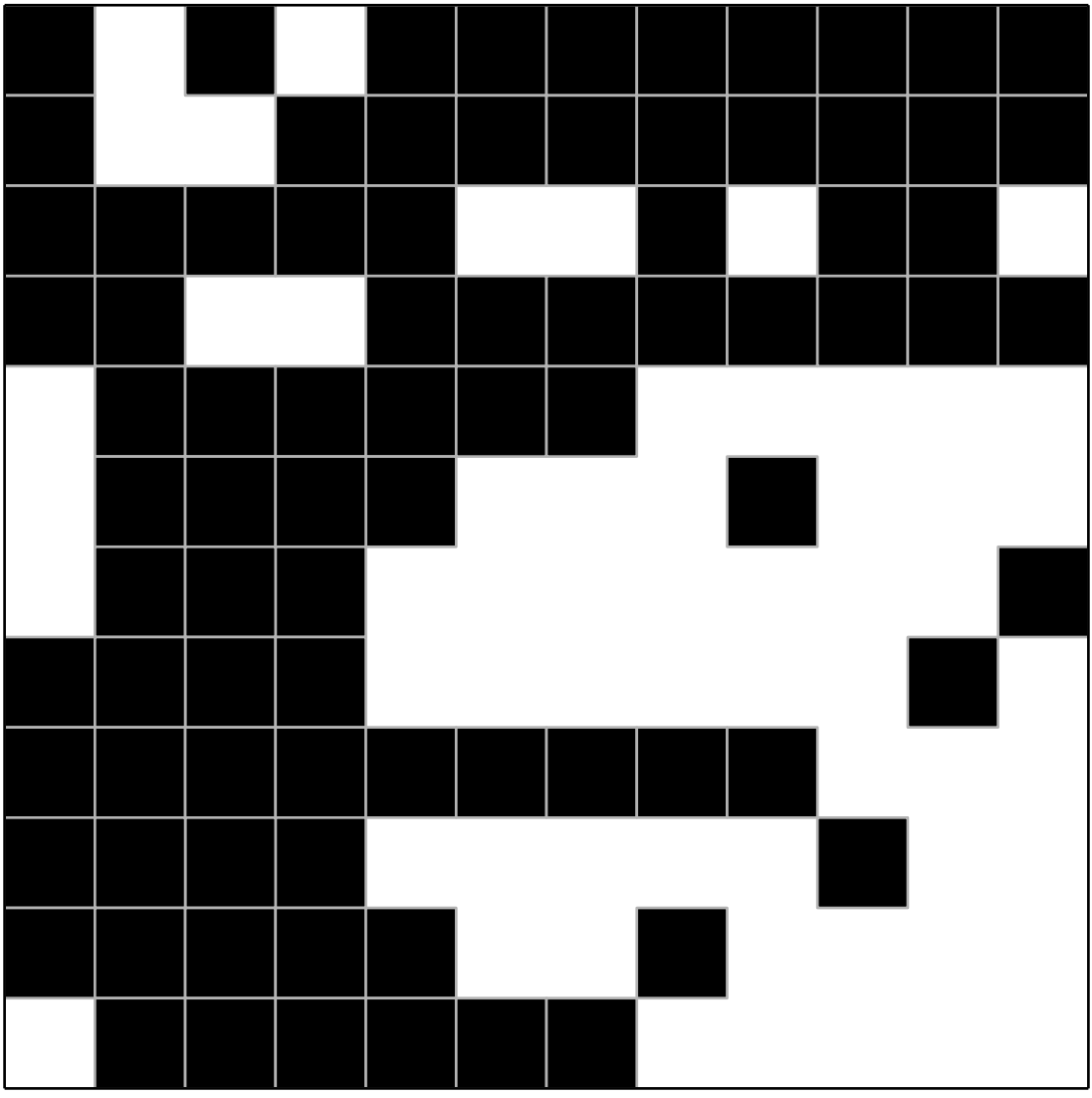
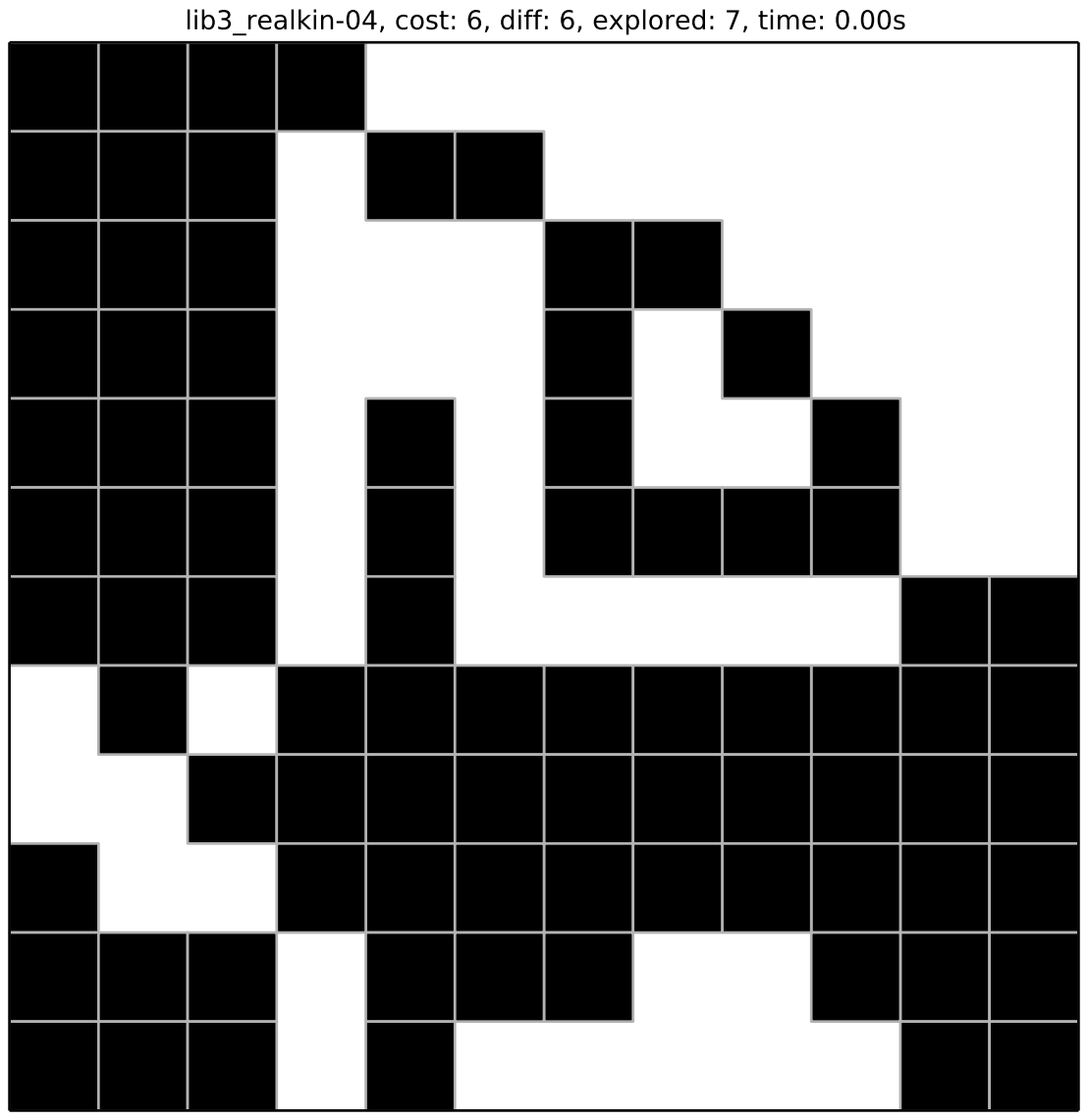
lib3_realkin-04 12x12 (84) con: 6, var: 6

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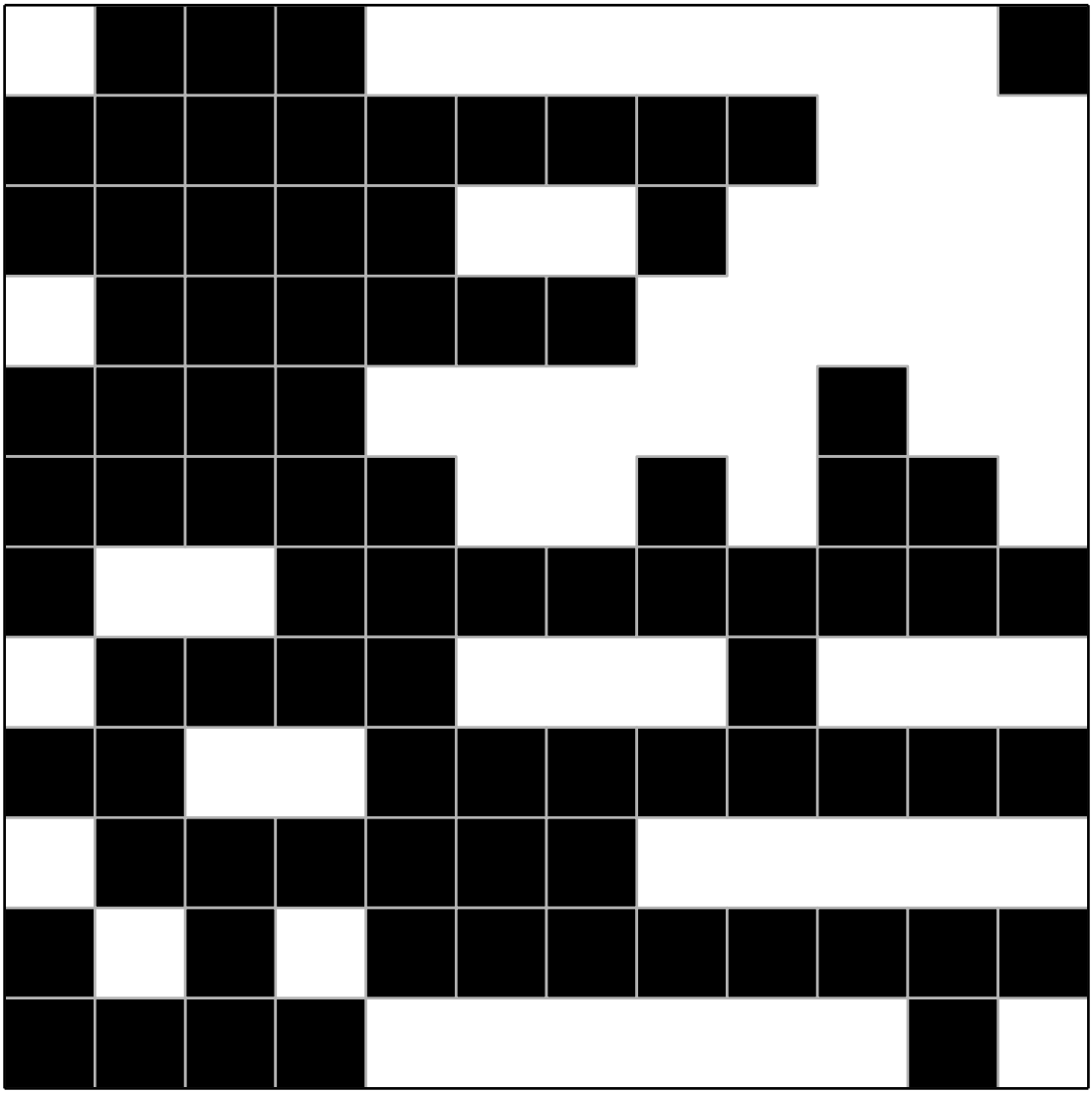
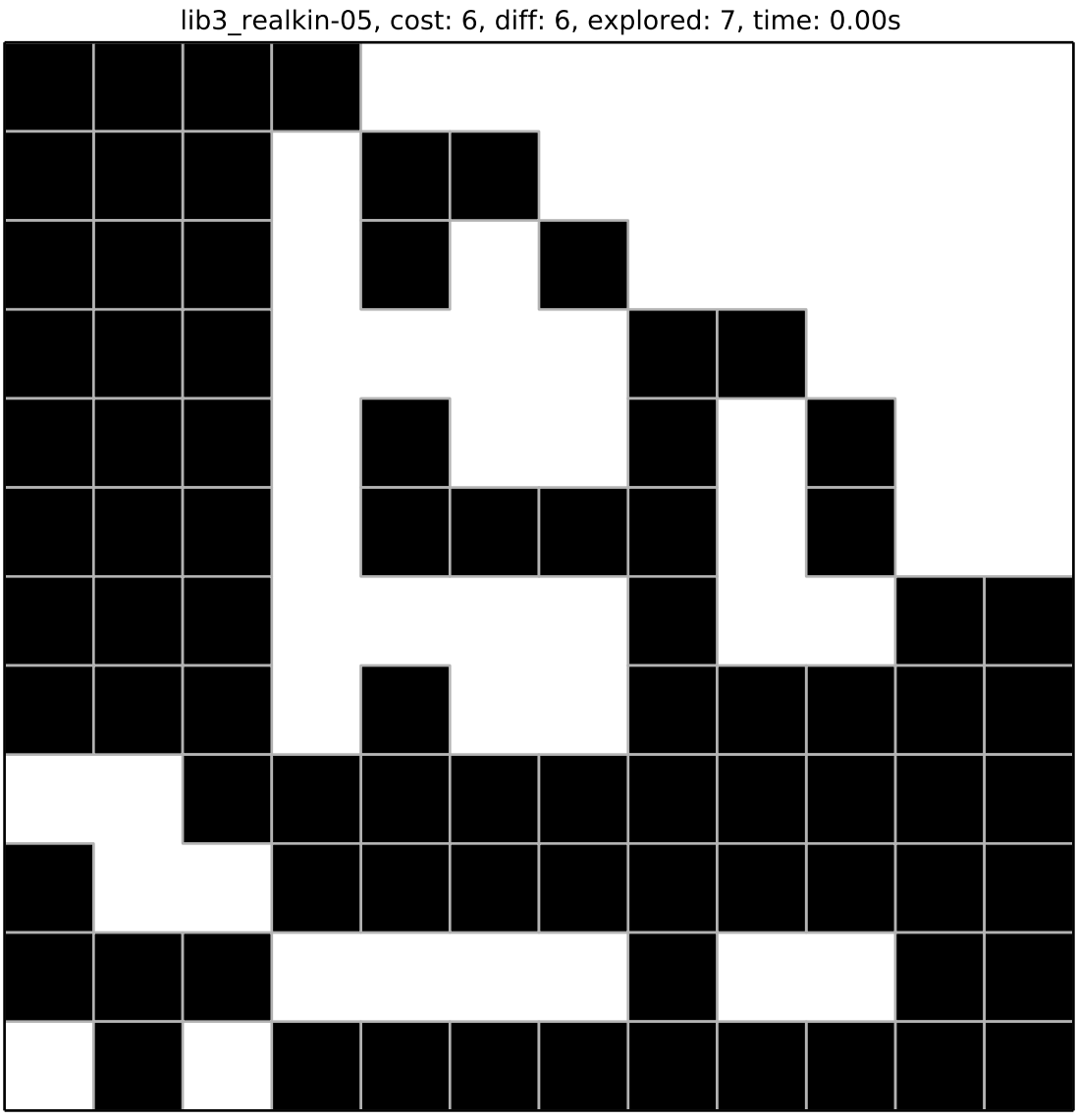
lib3_realkin-05 12x12 (84) con: 6, var: 6

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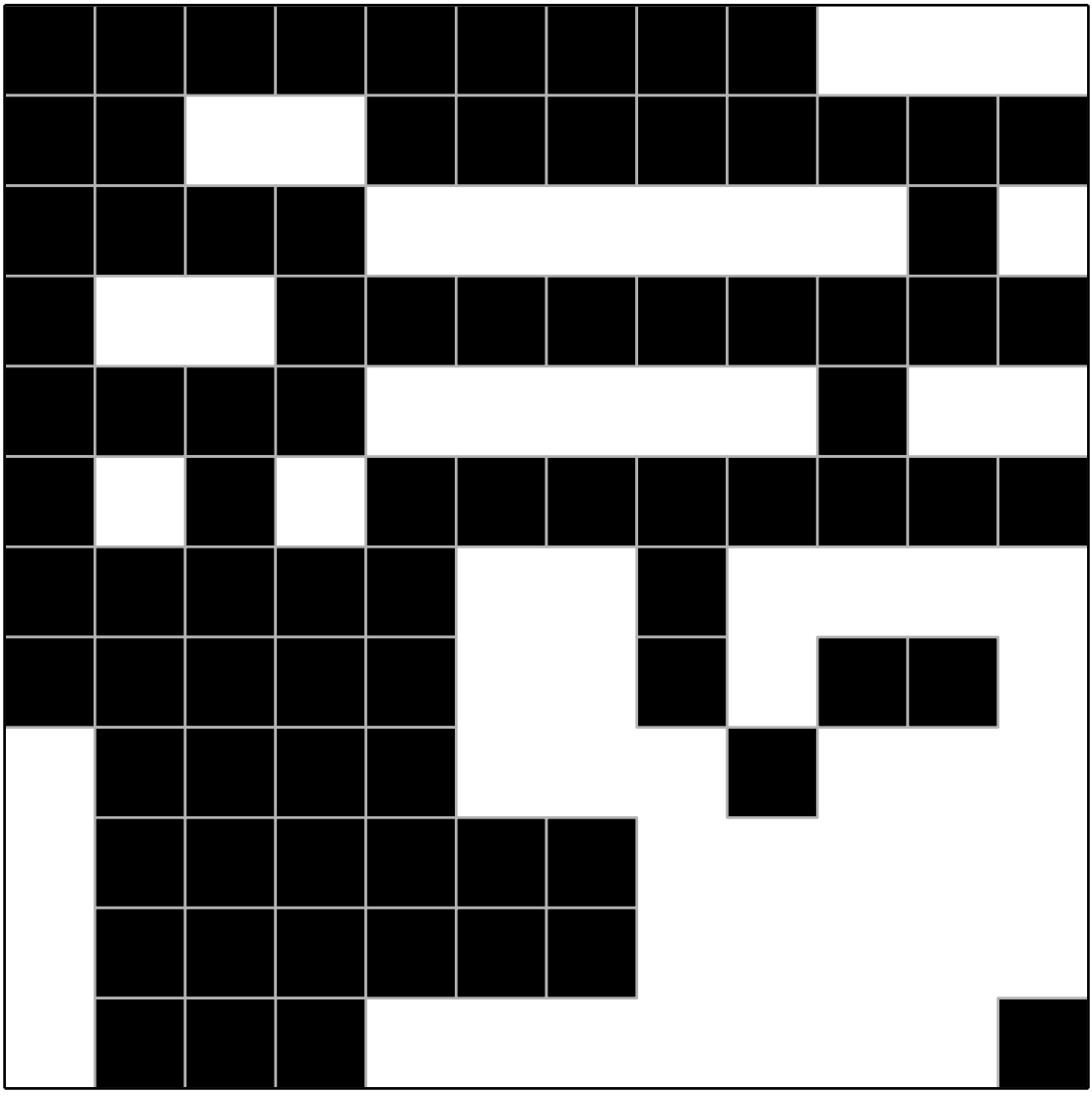
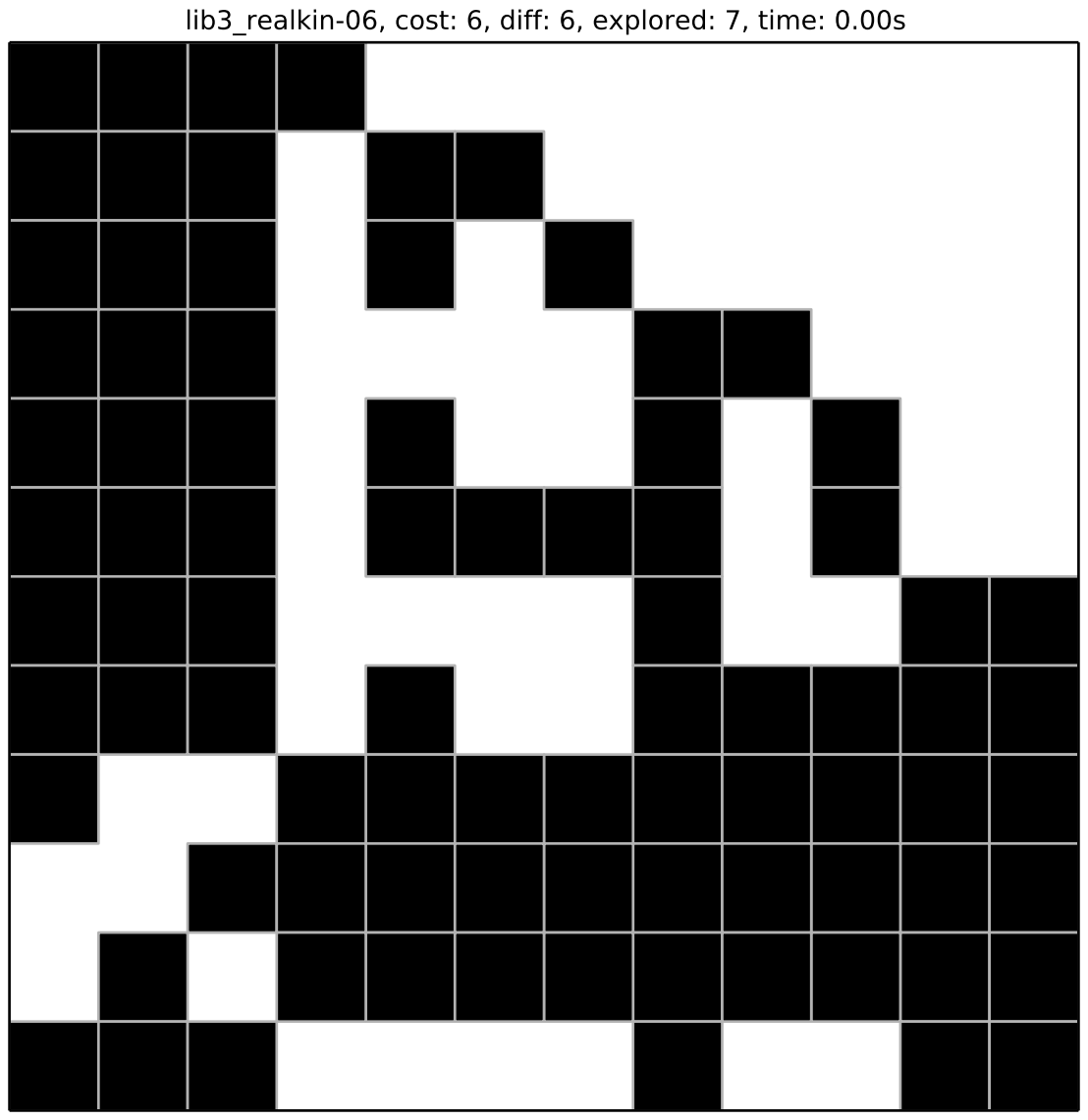
lib3_realkin-06 12x12 (84) con: 6, var: 6

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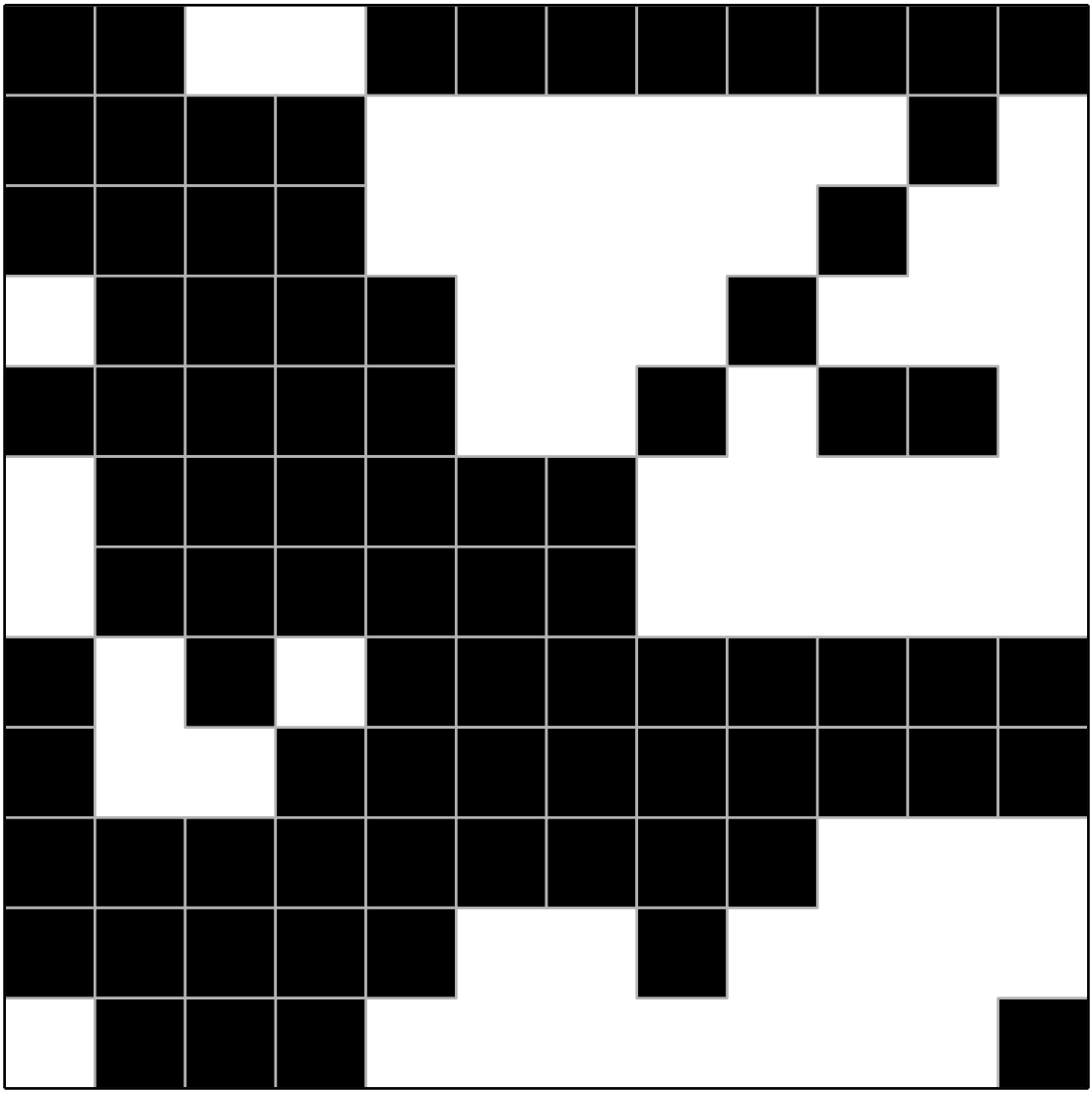
lib3_realkin-07 12x12 (84) con: 6, var: 6



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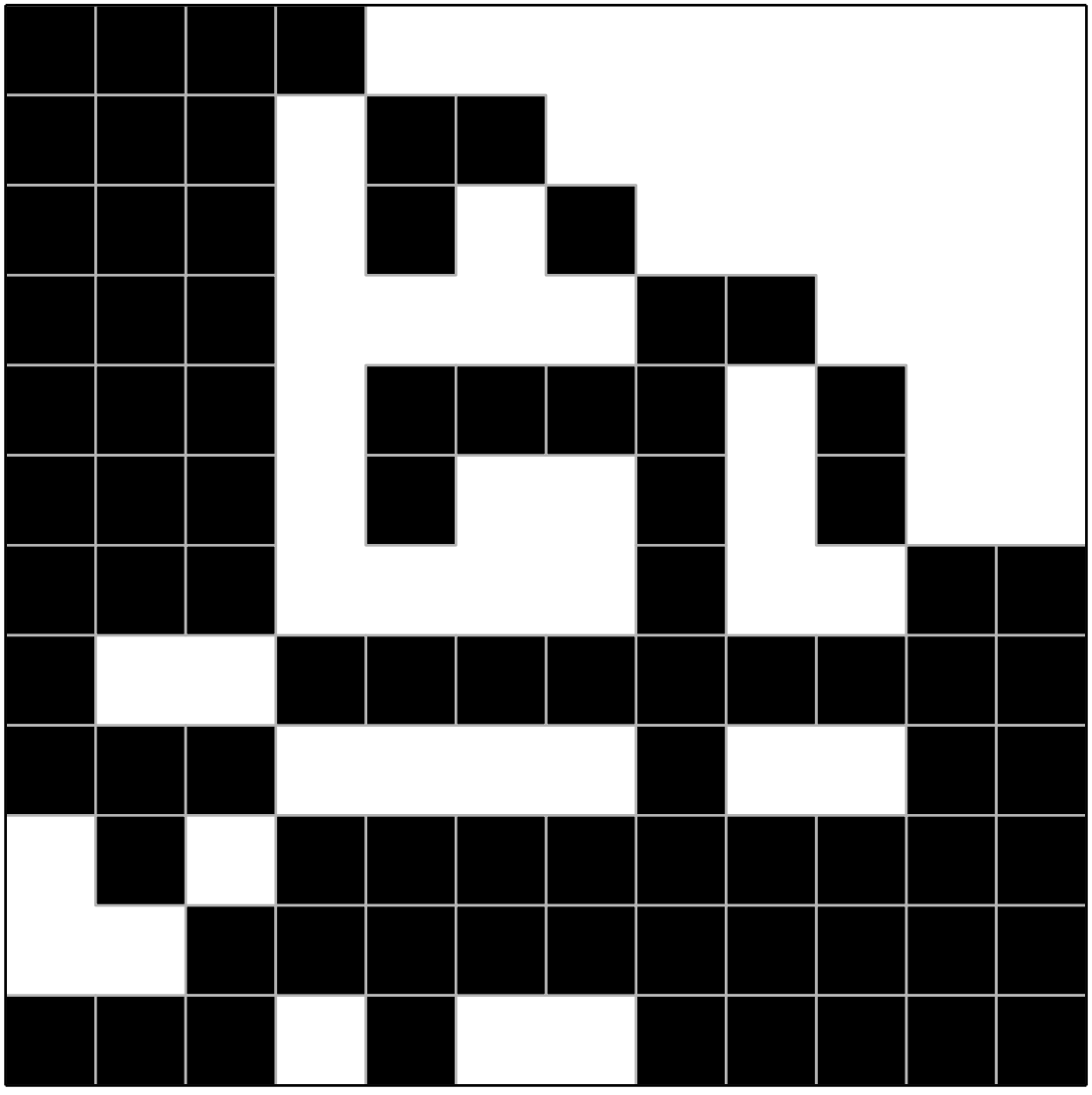

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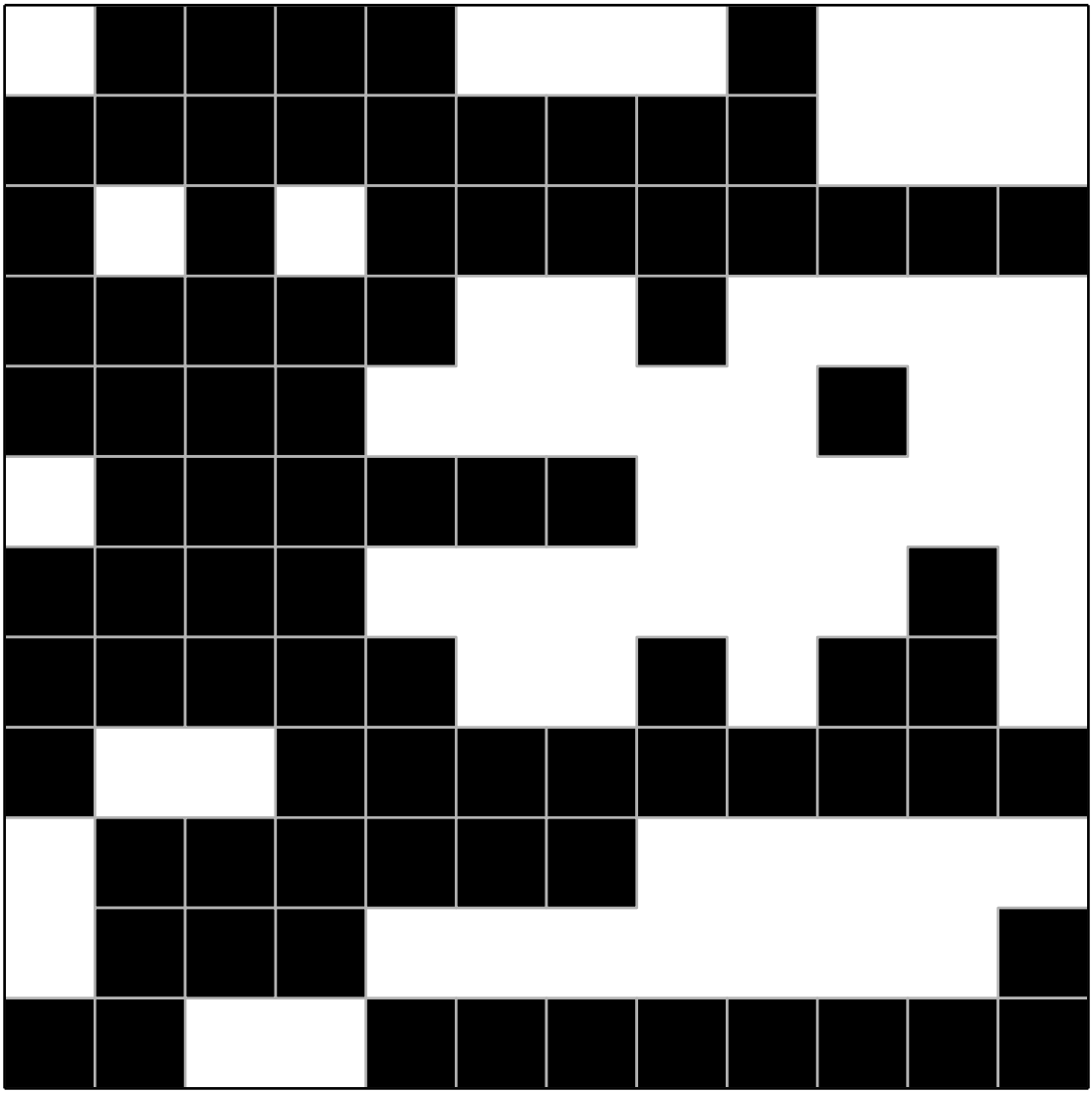

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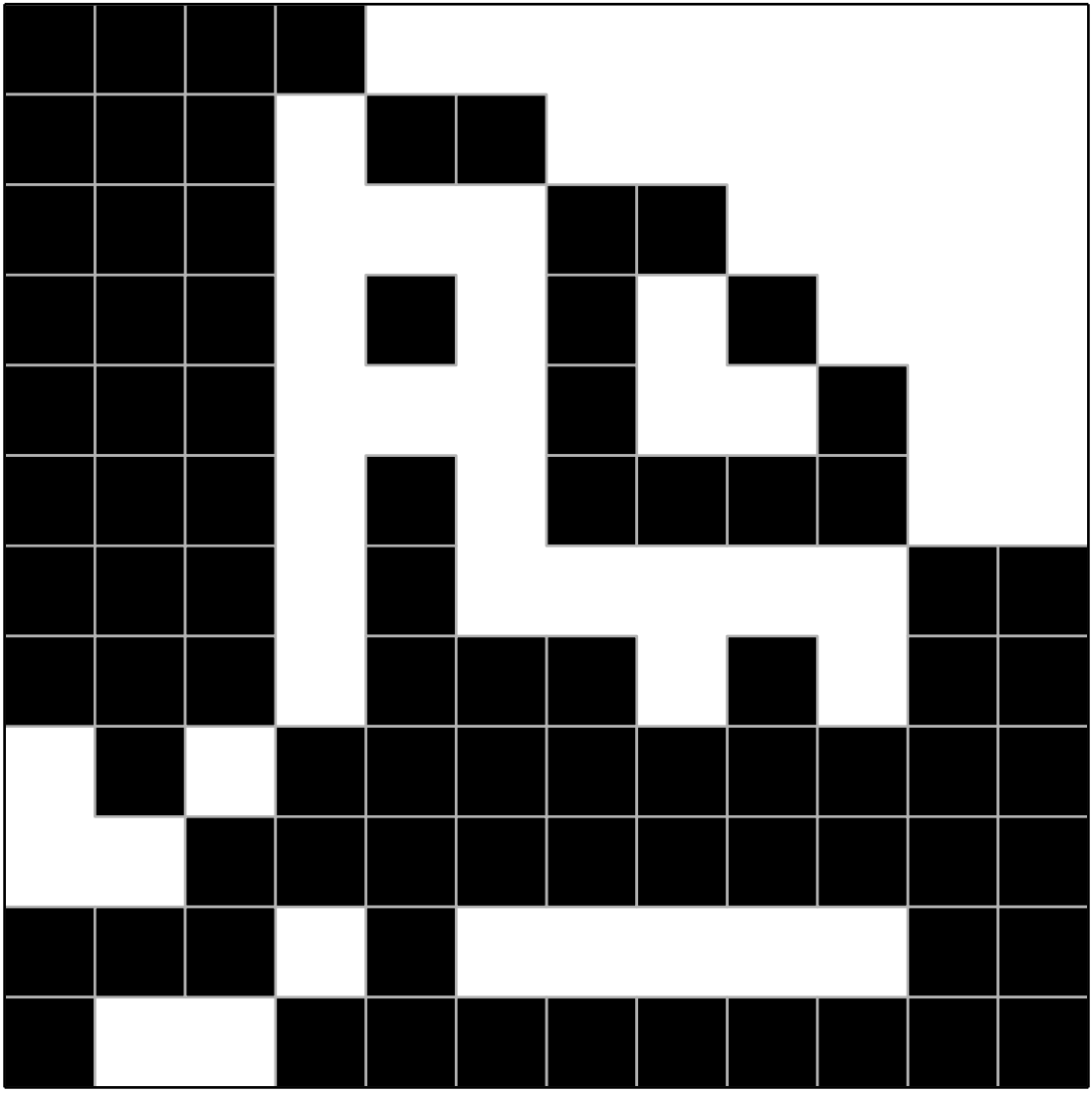

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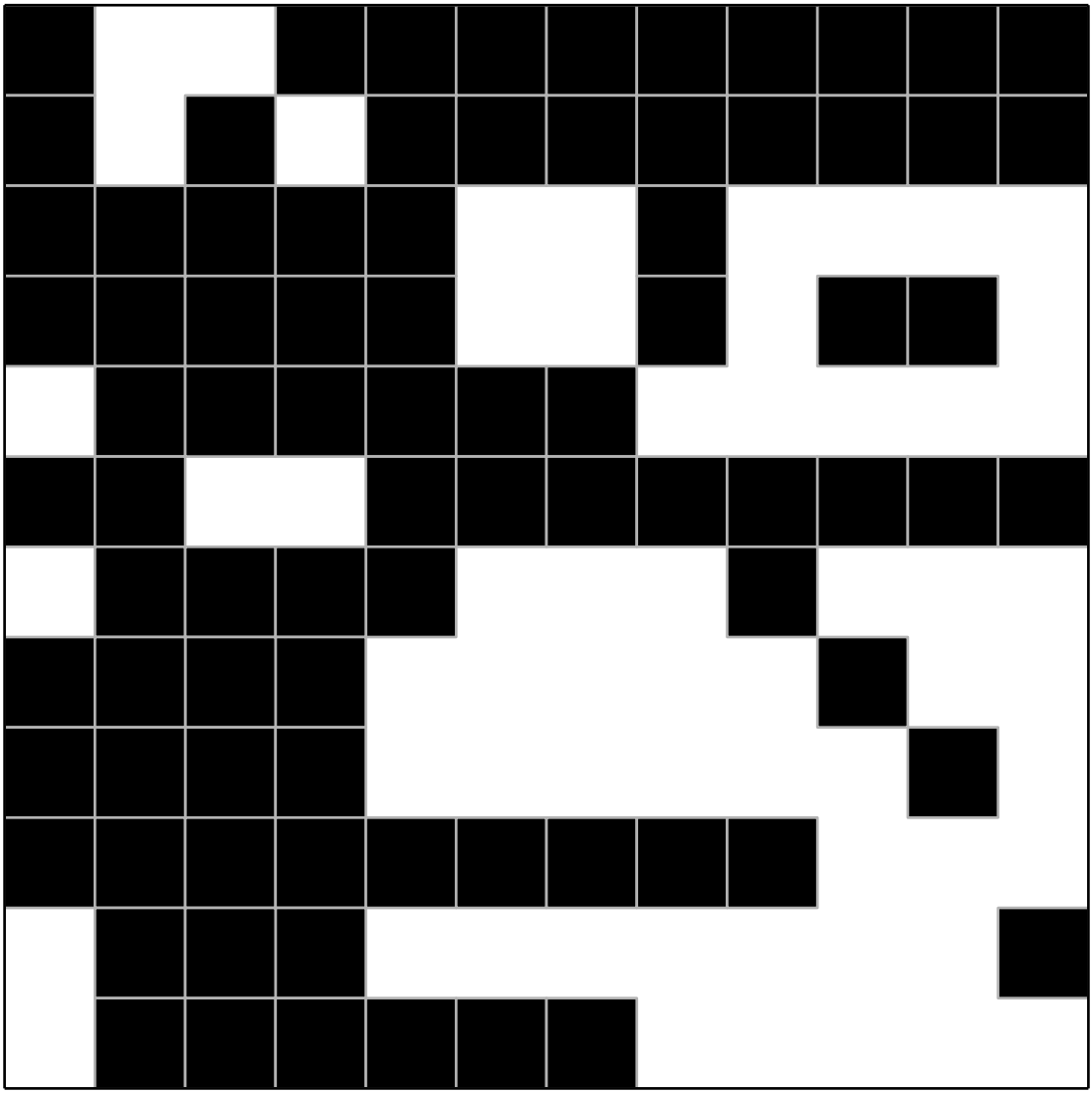

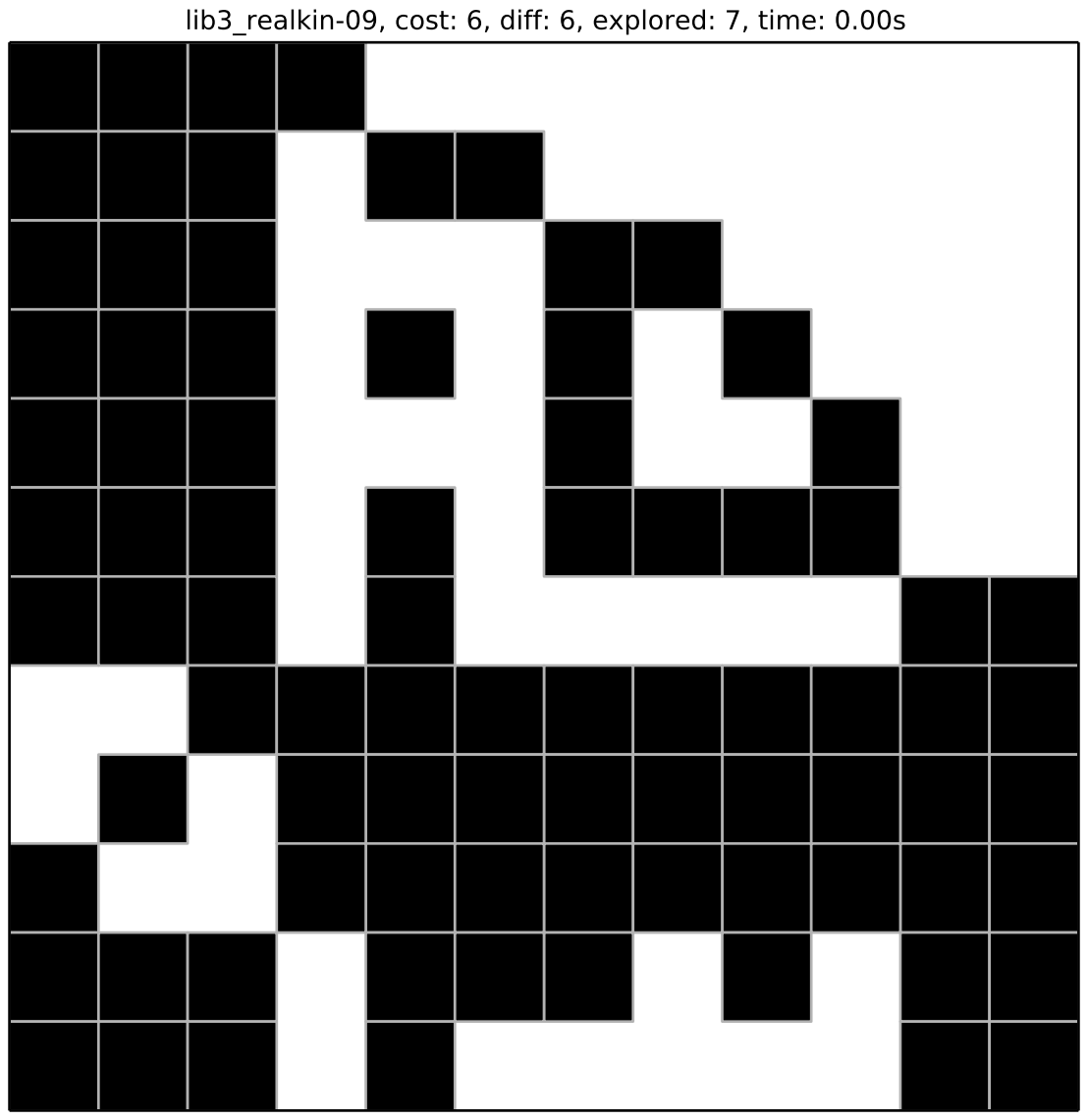
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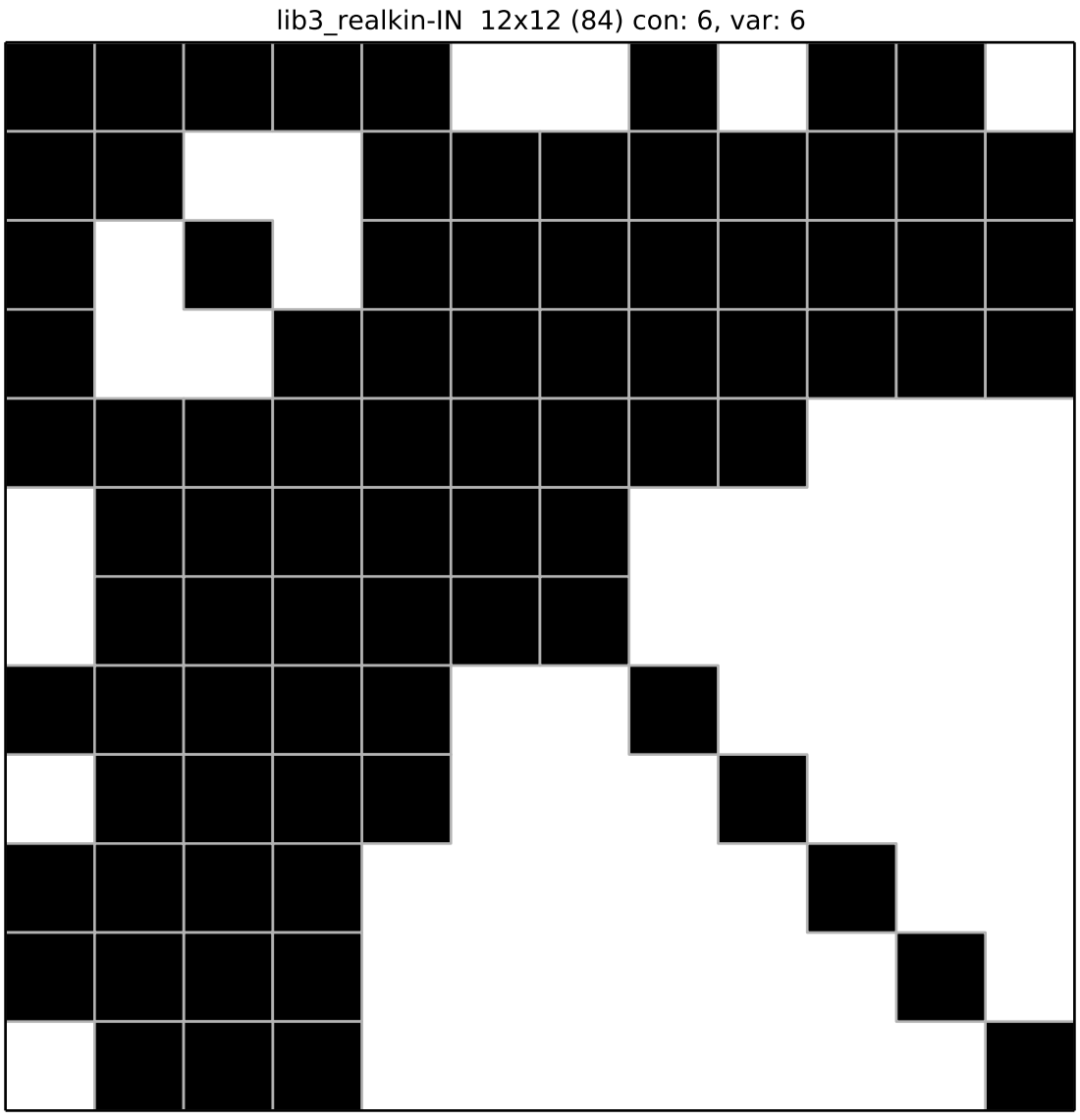
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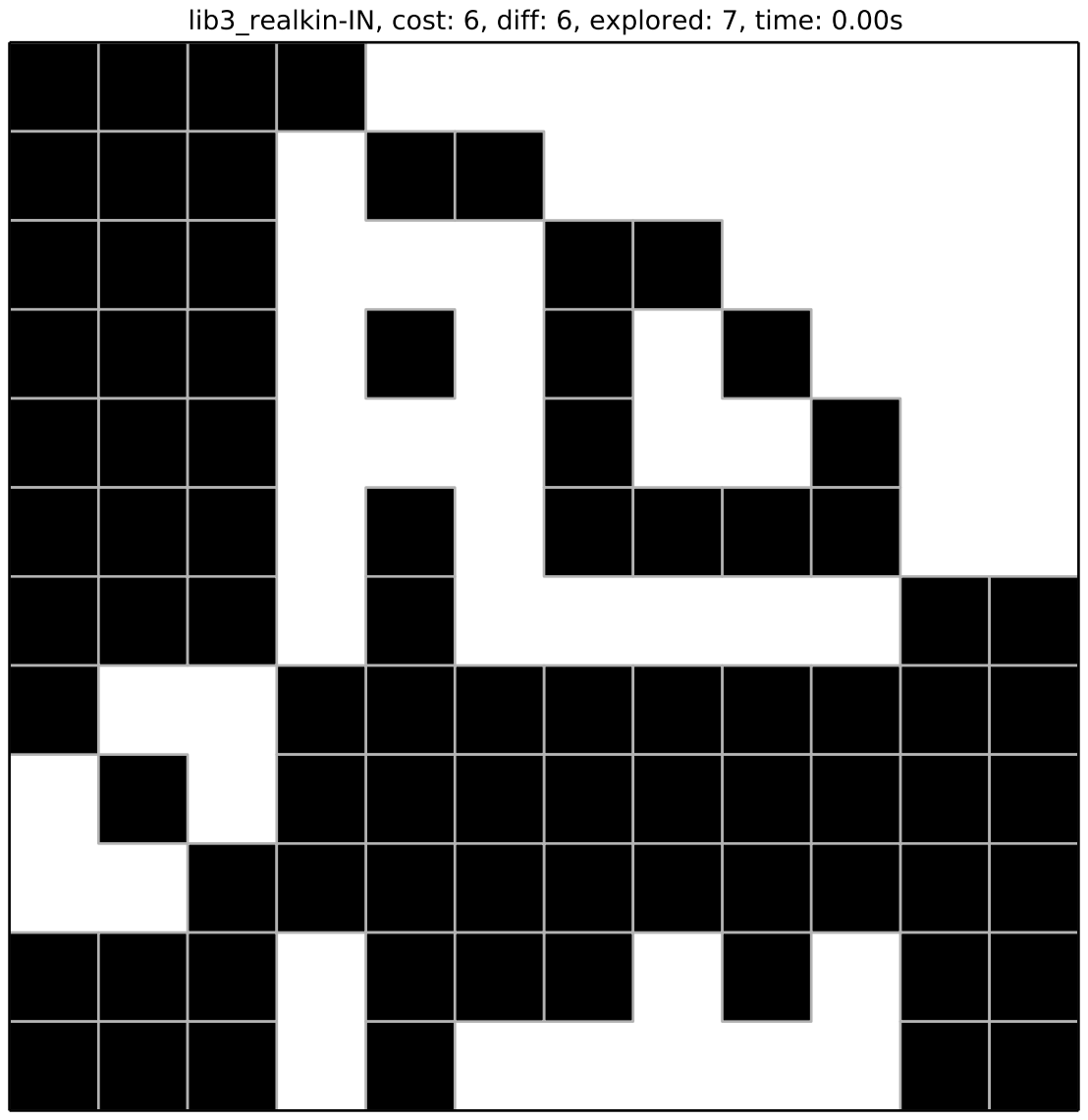
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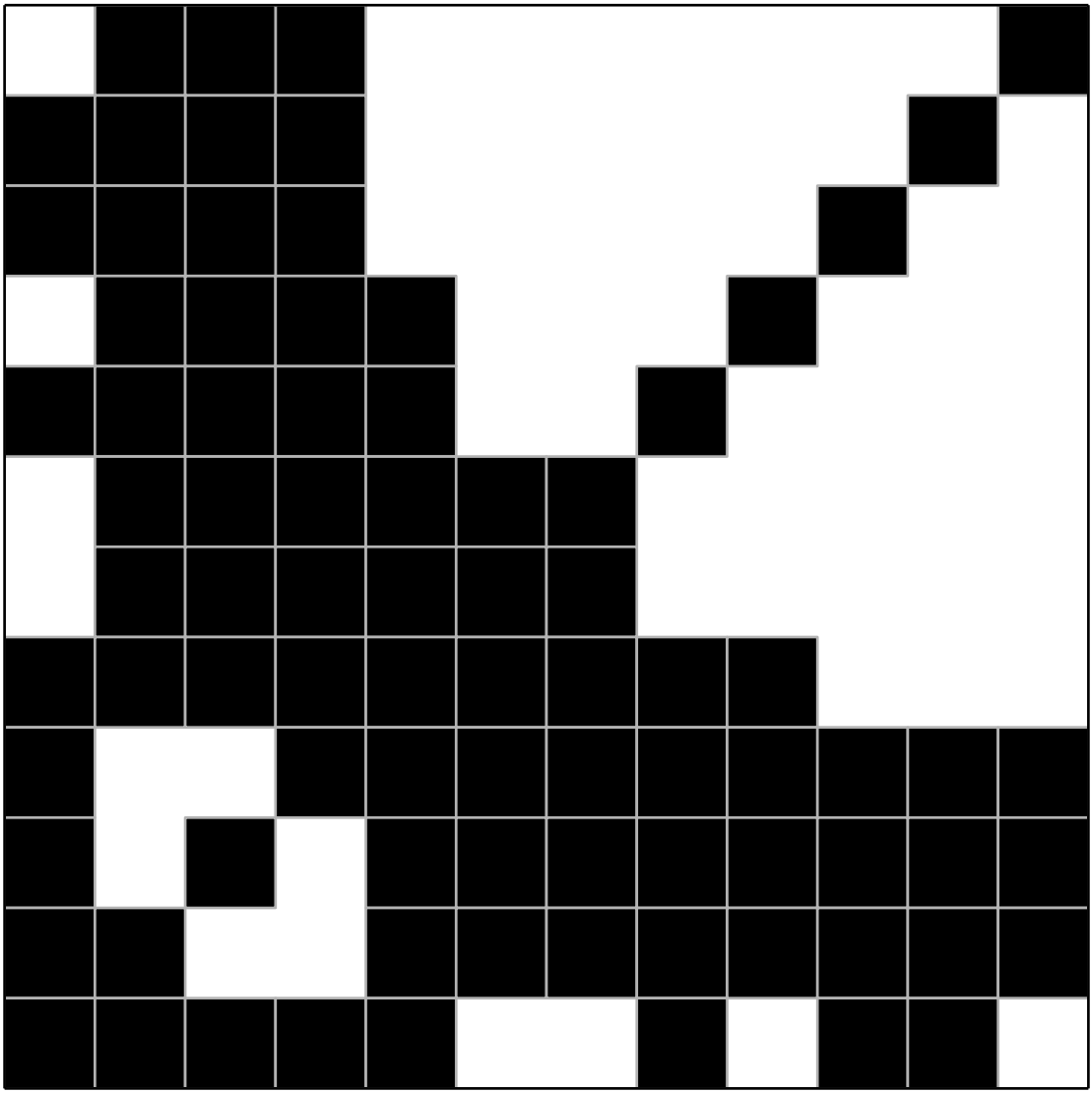

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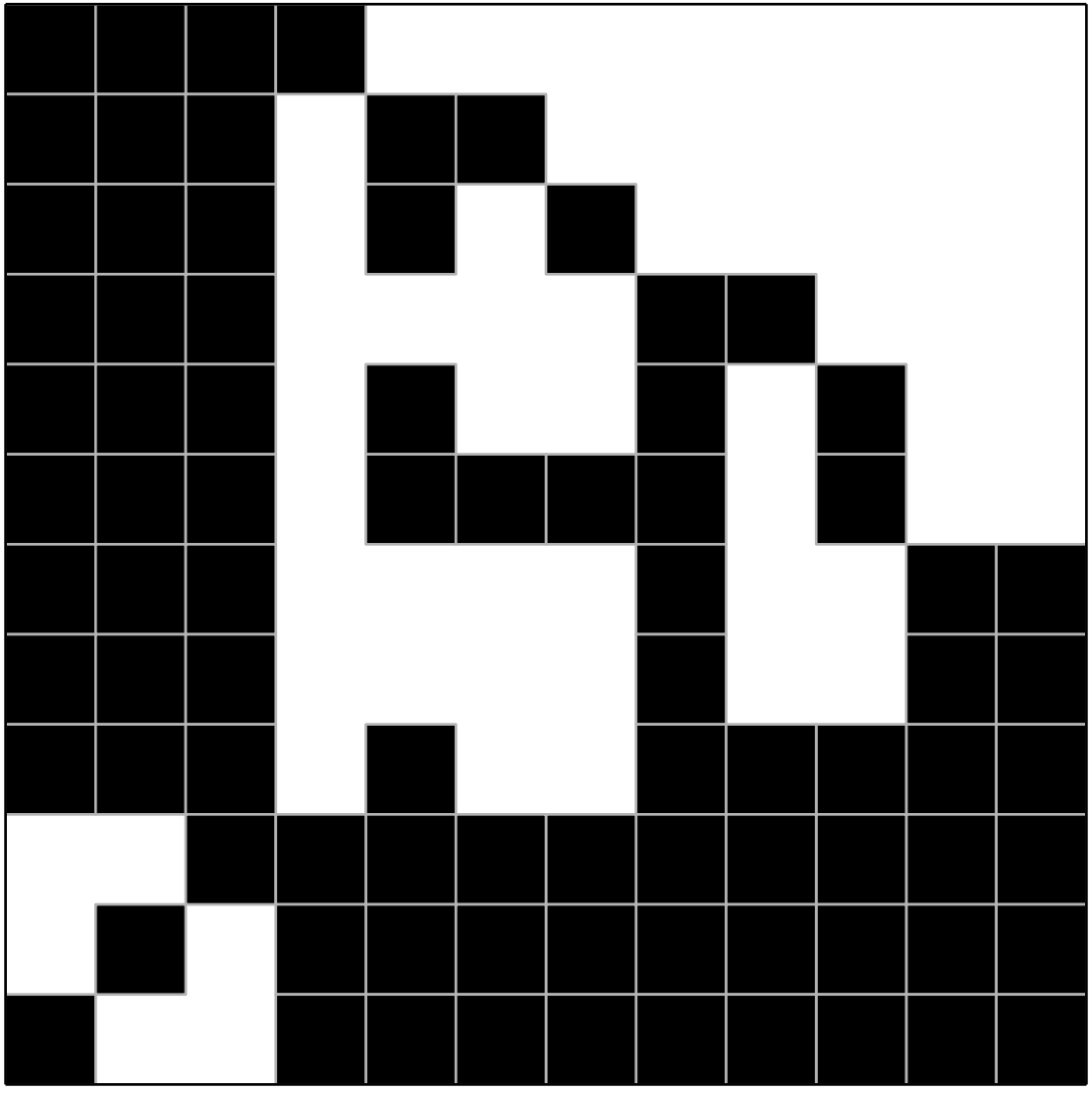
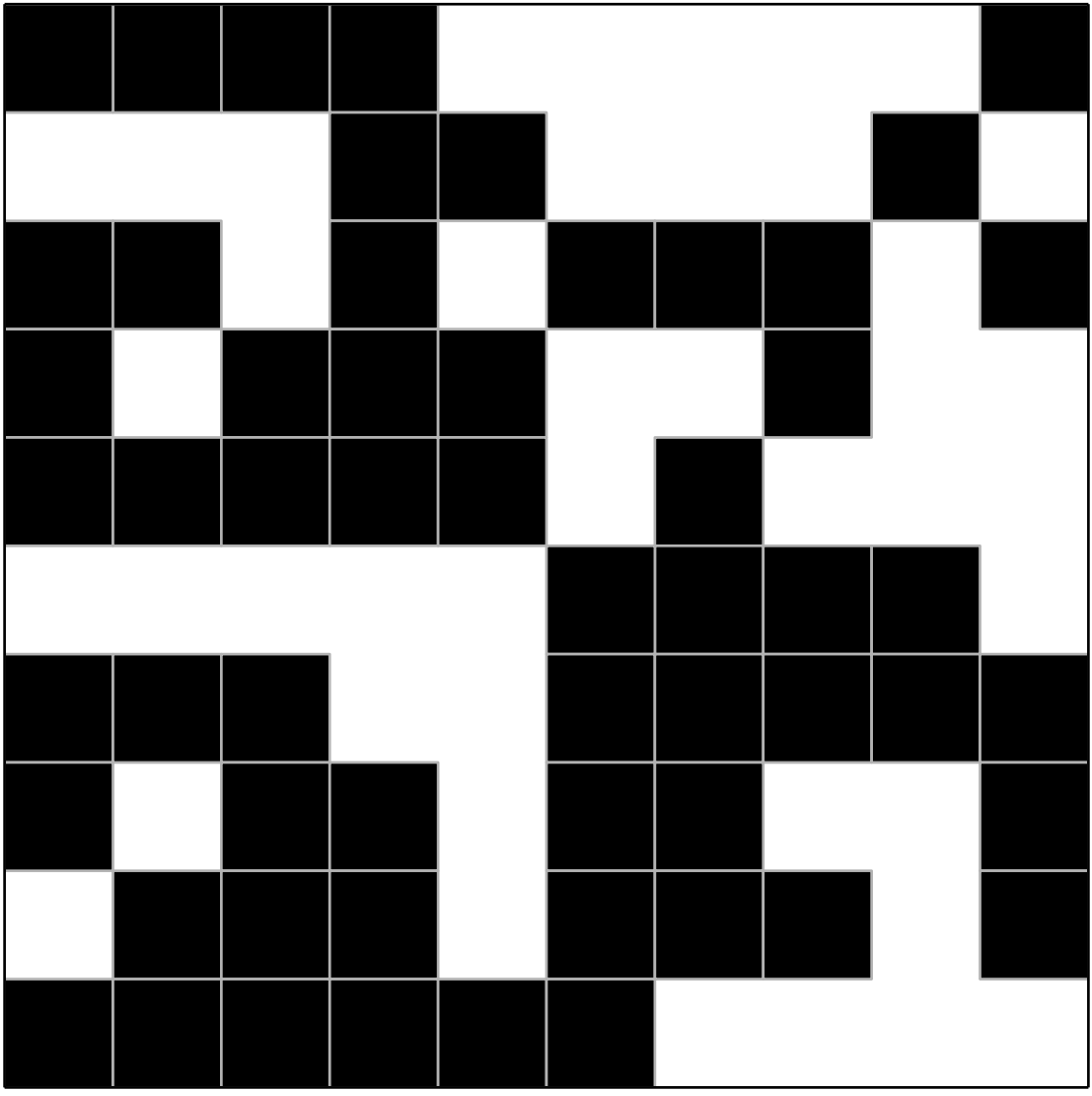


lib3_redeco5-00 10x10 (57) con: 5, var: 5



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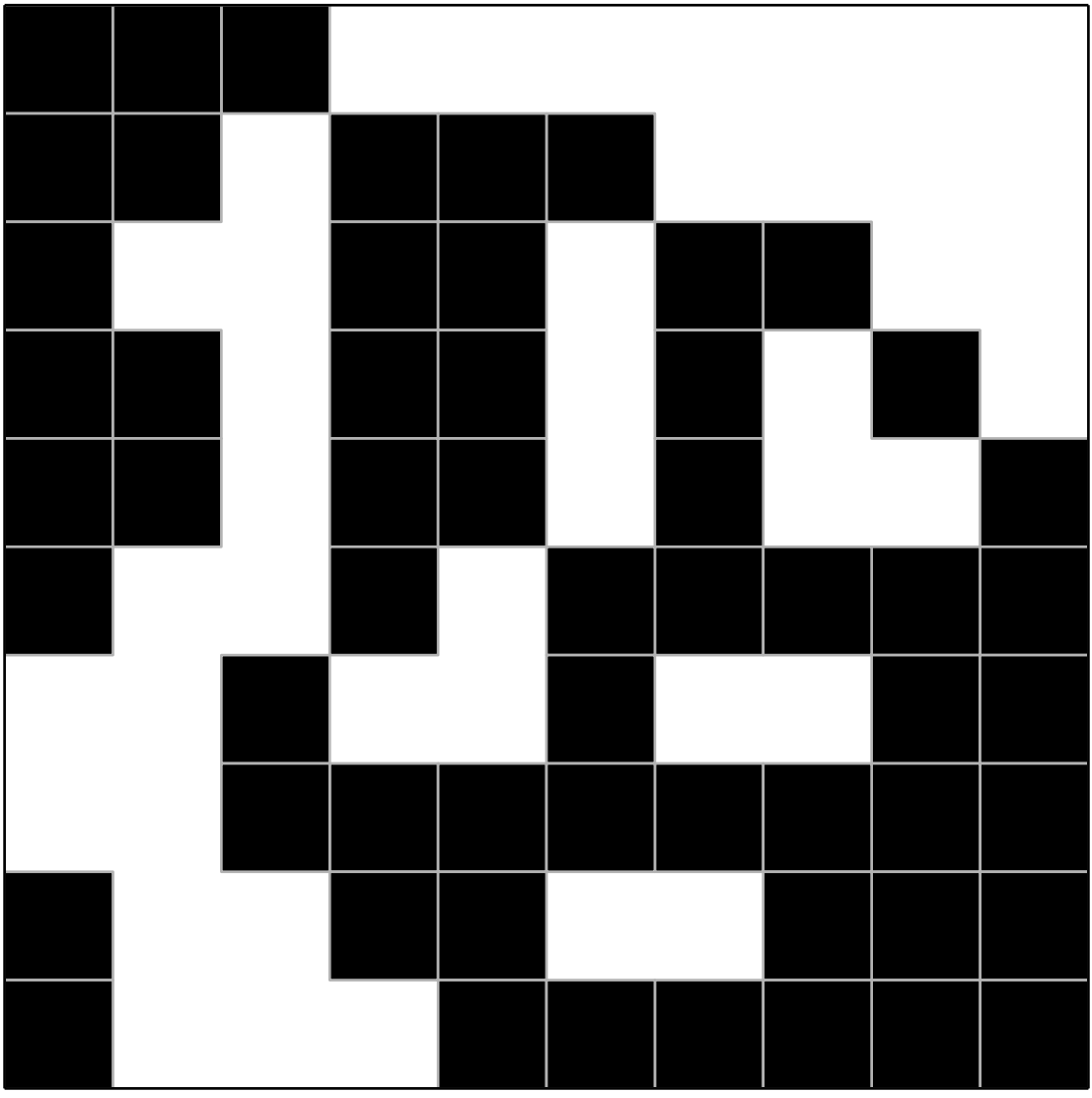

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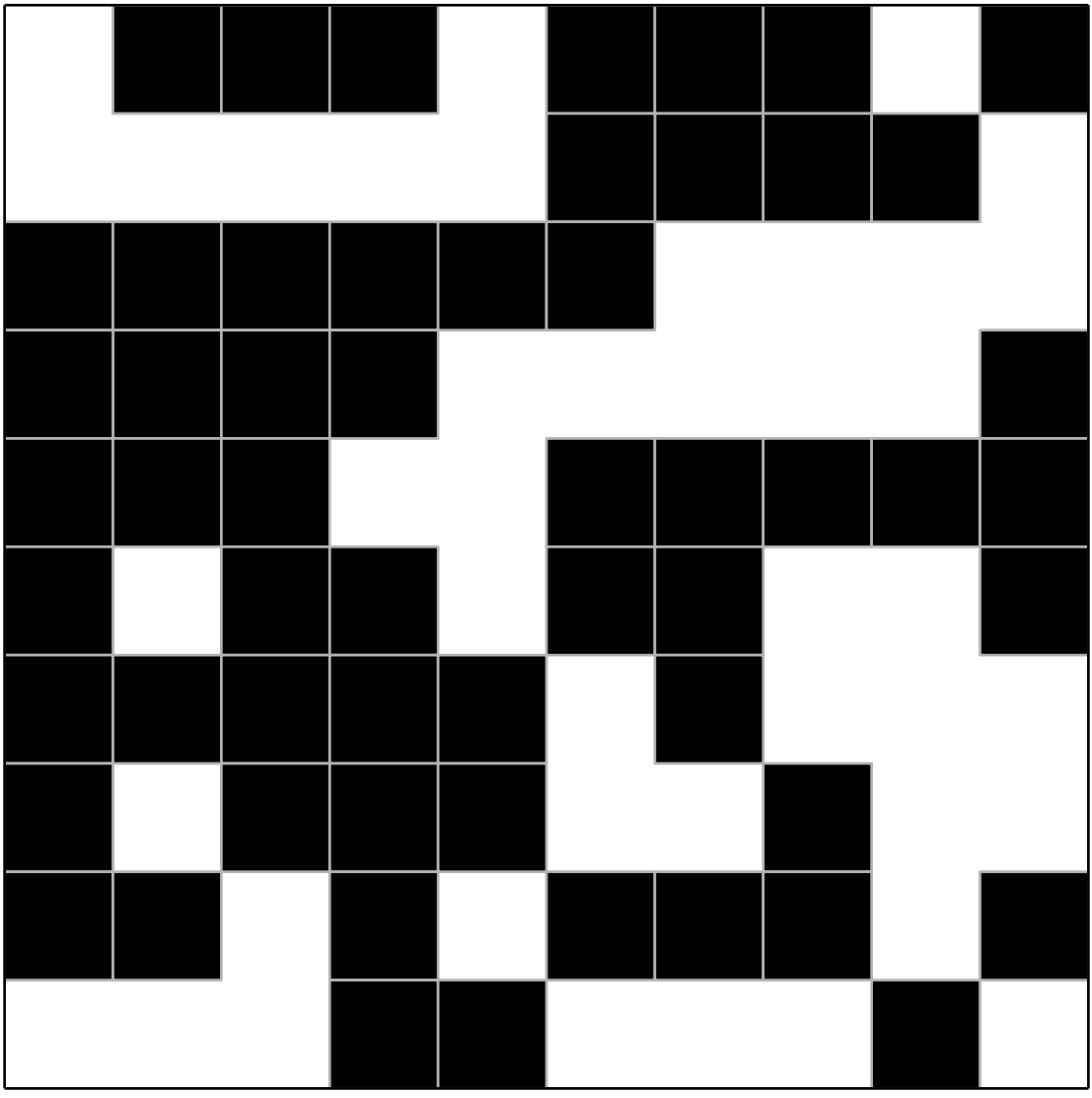

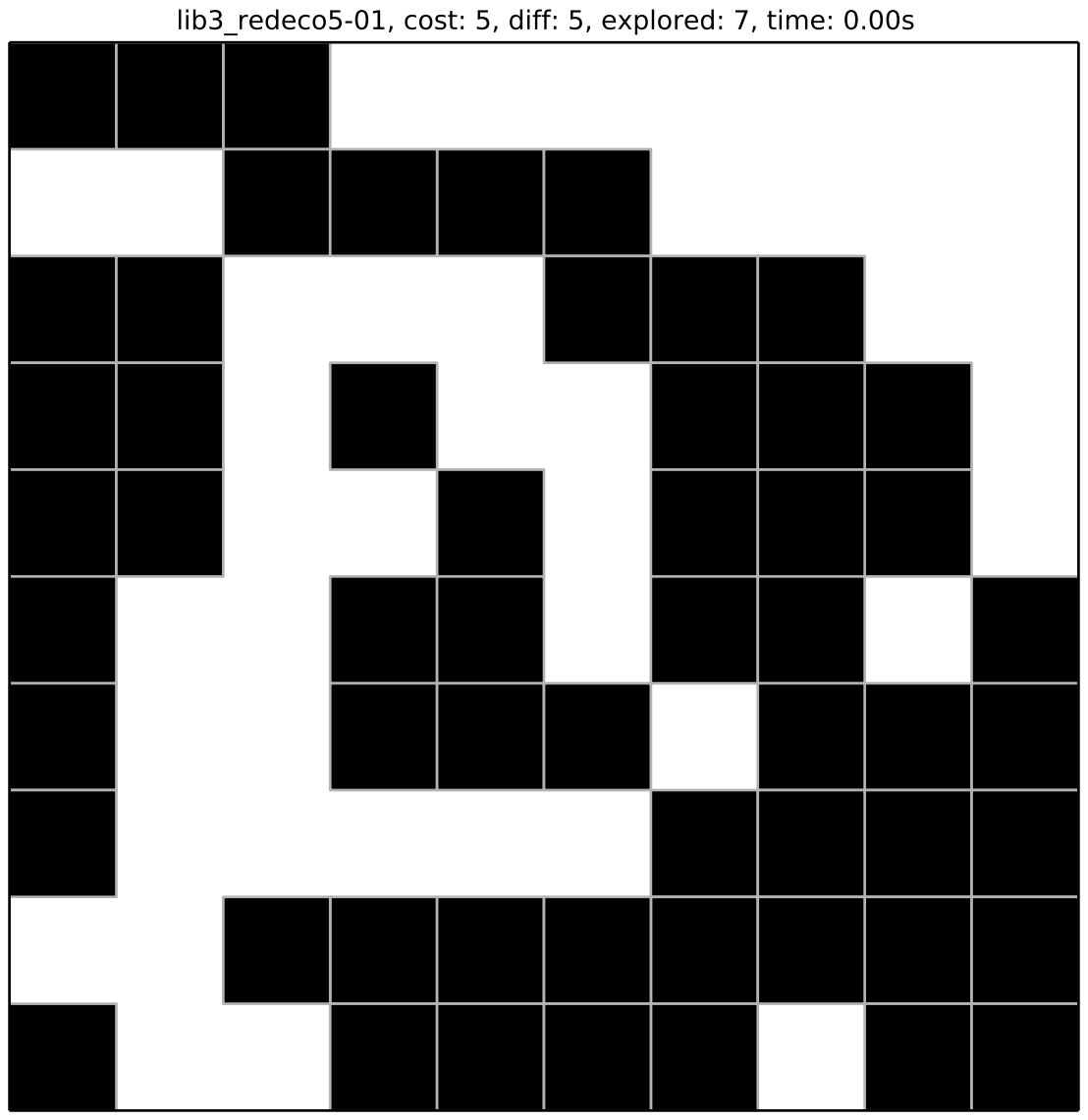
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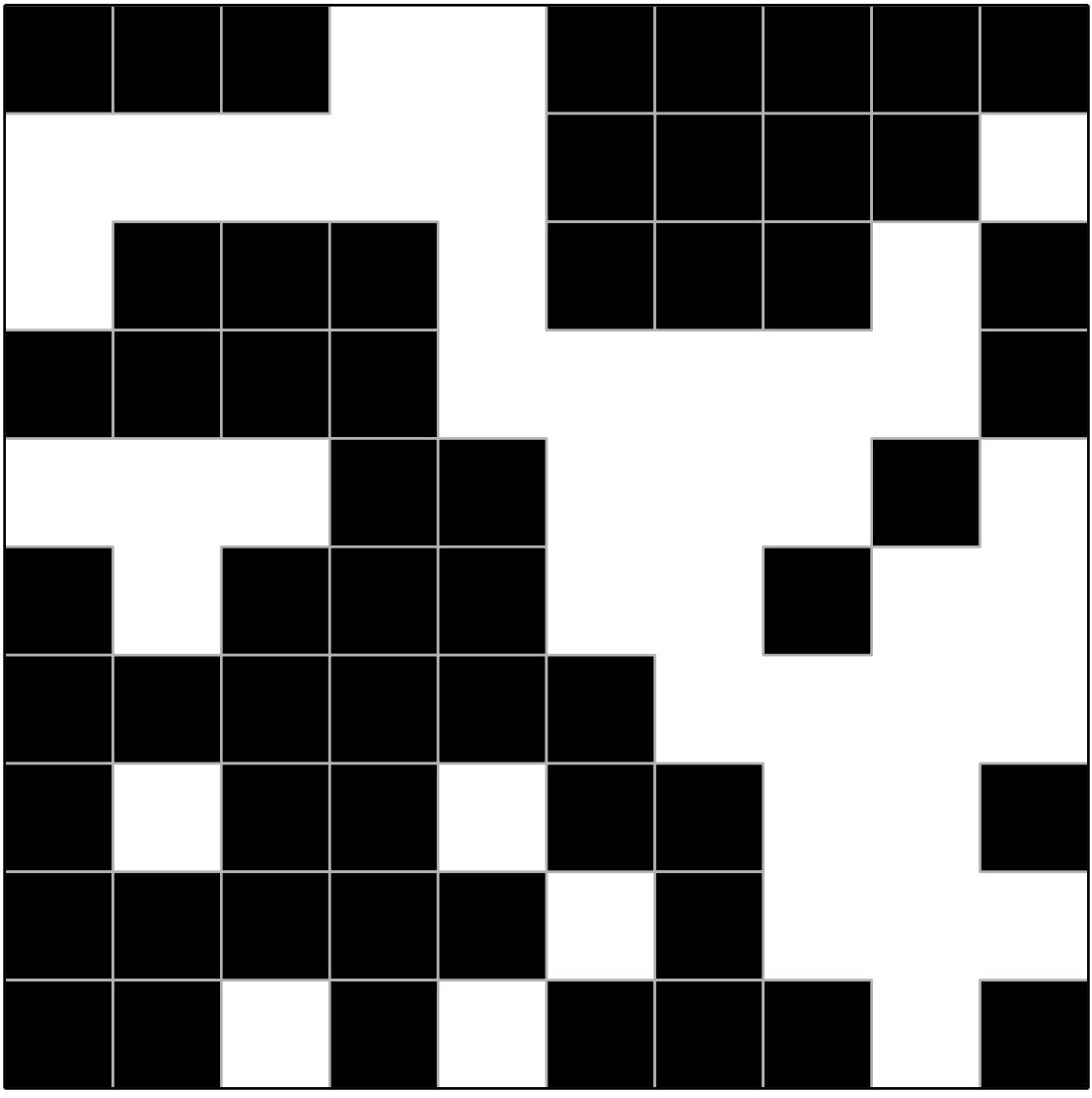

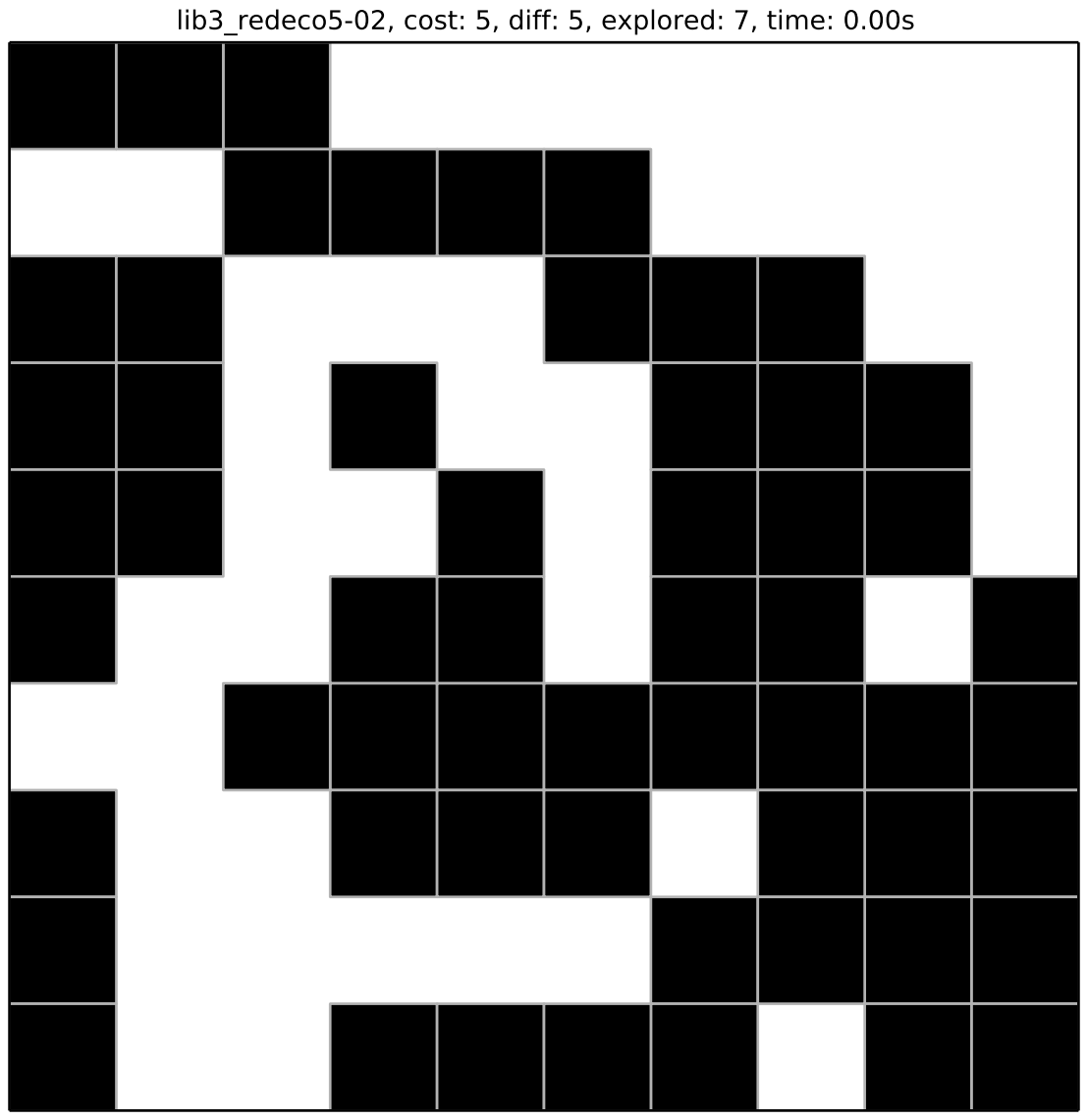
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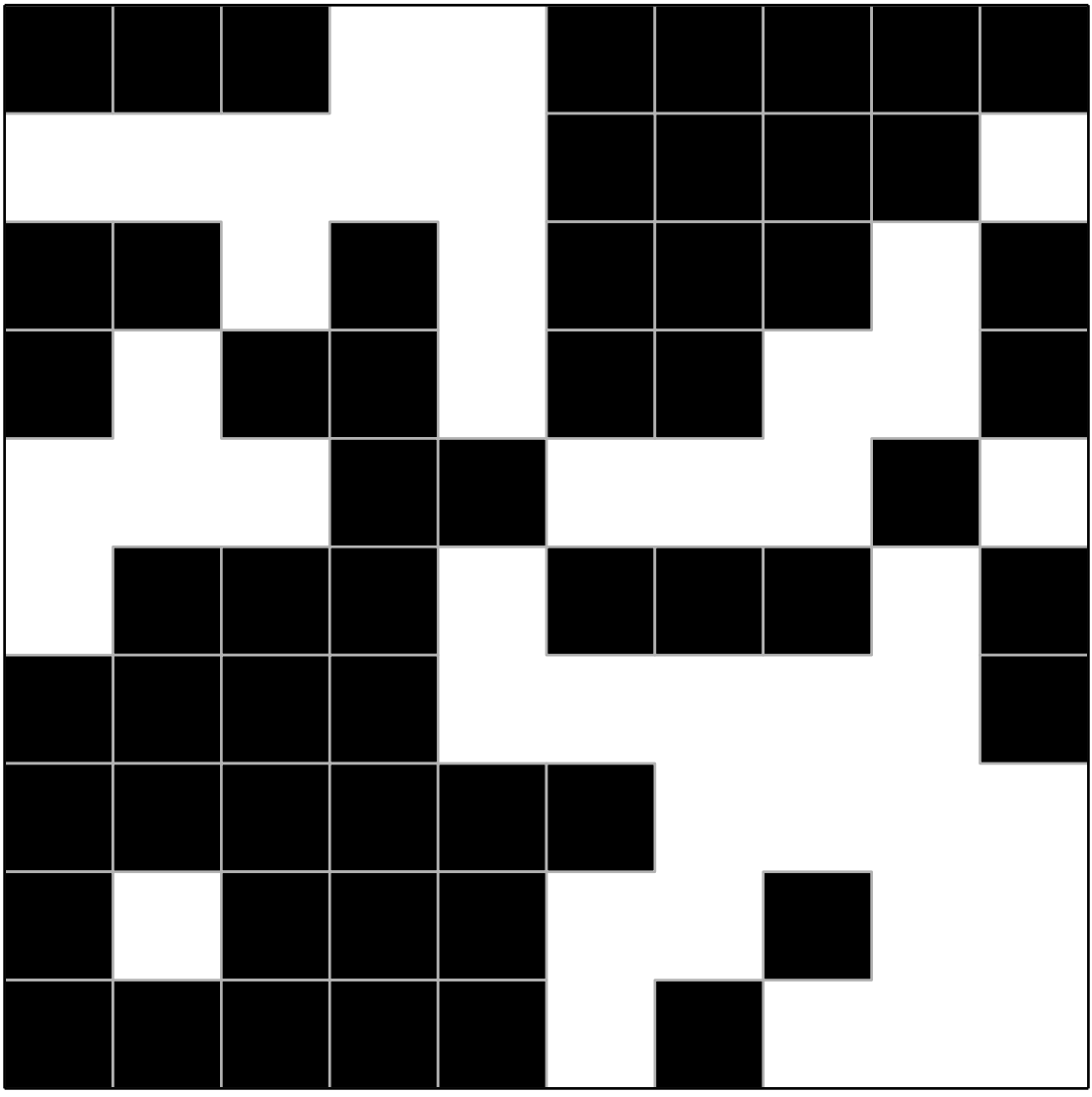

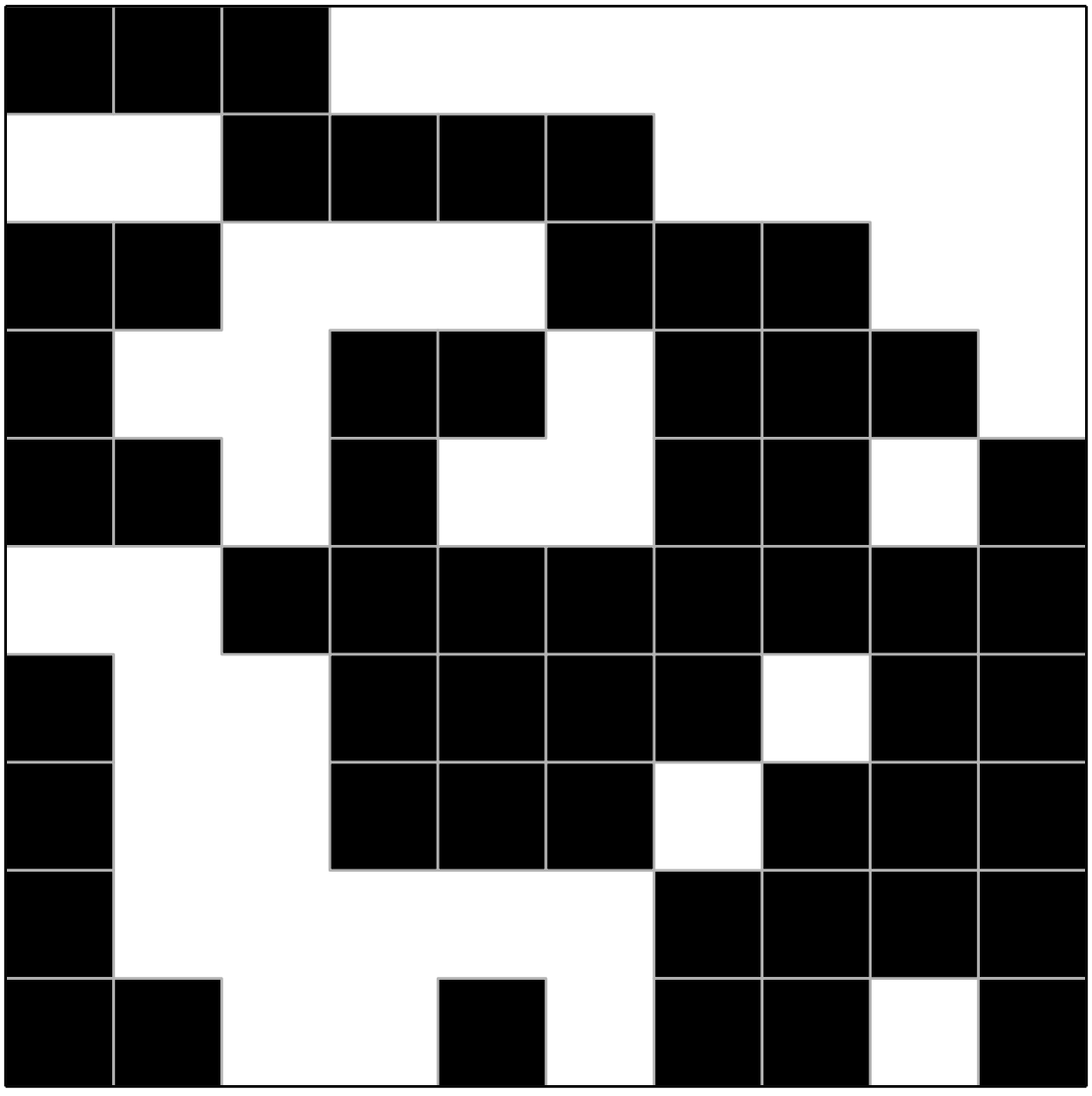
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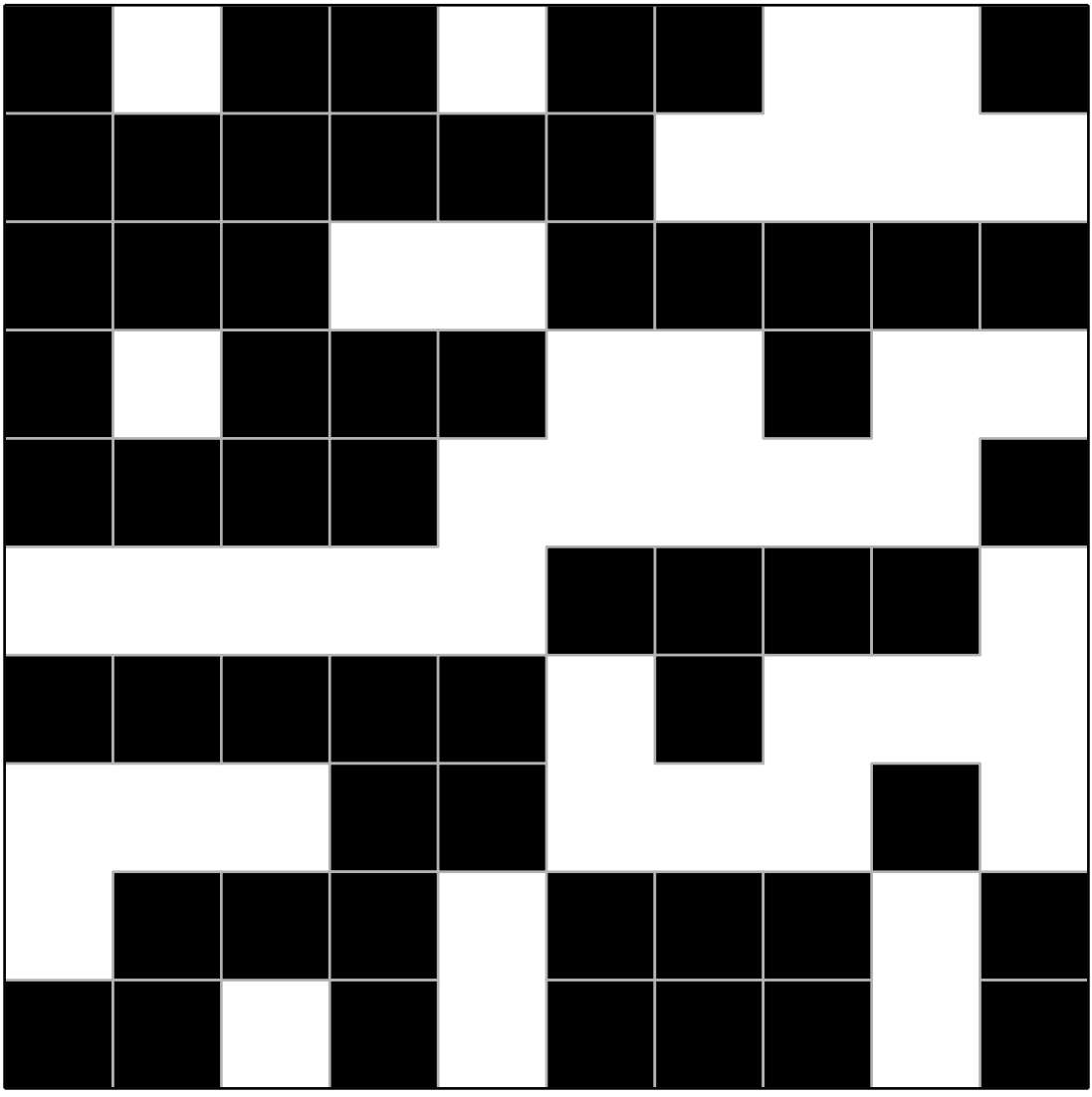

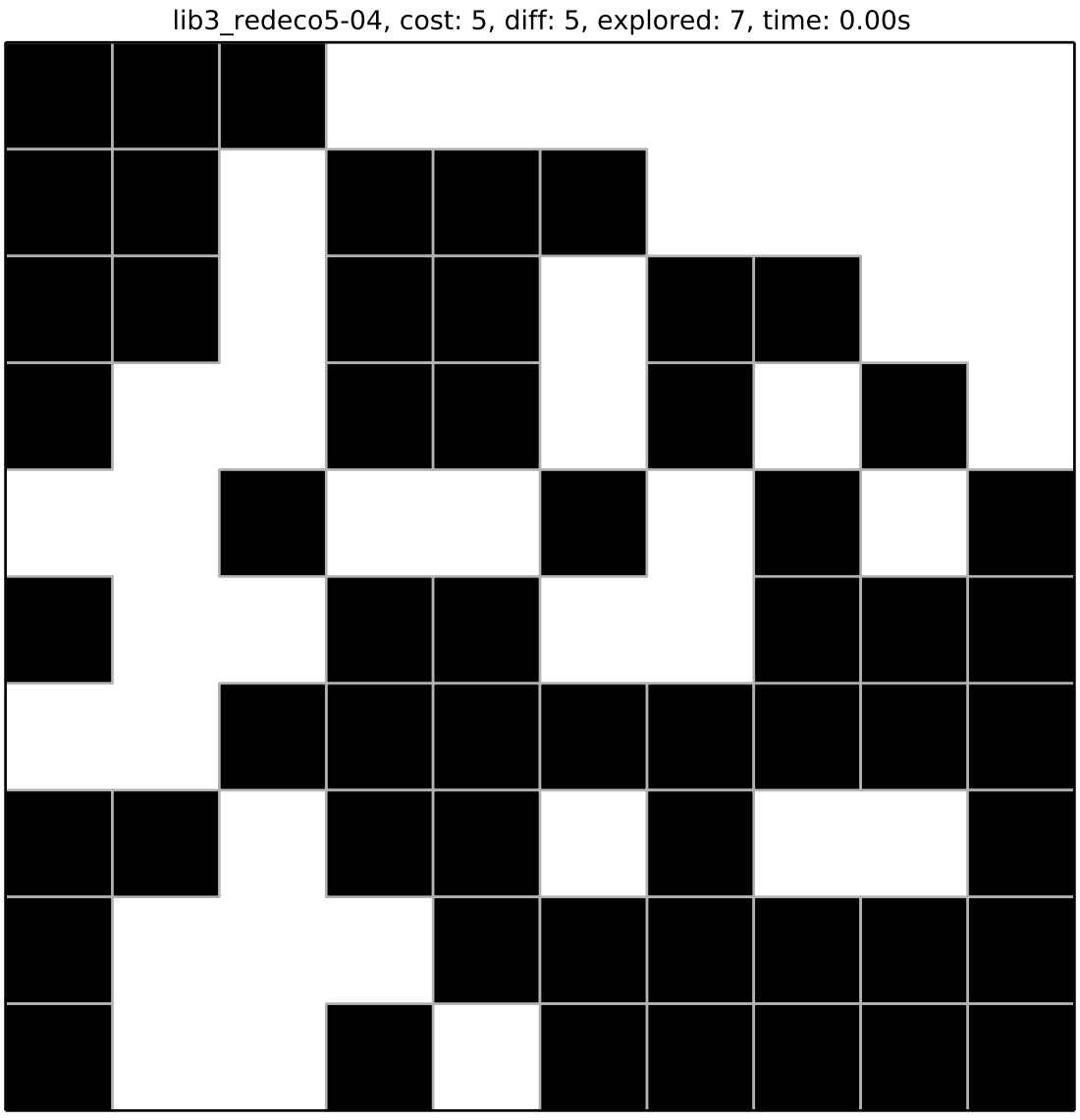
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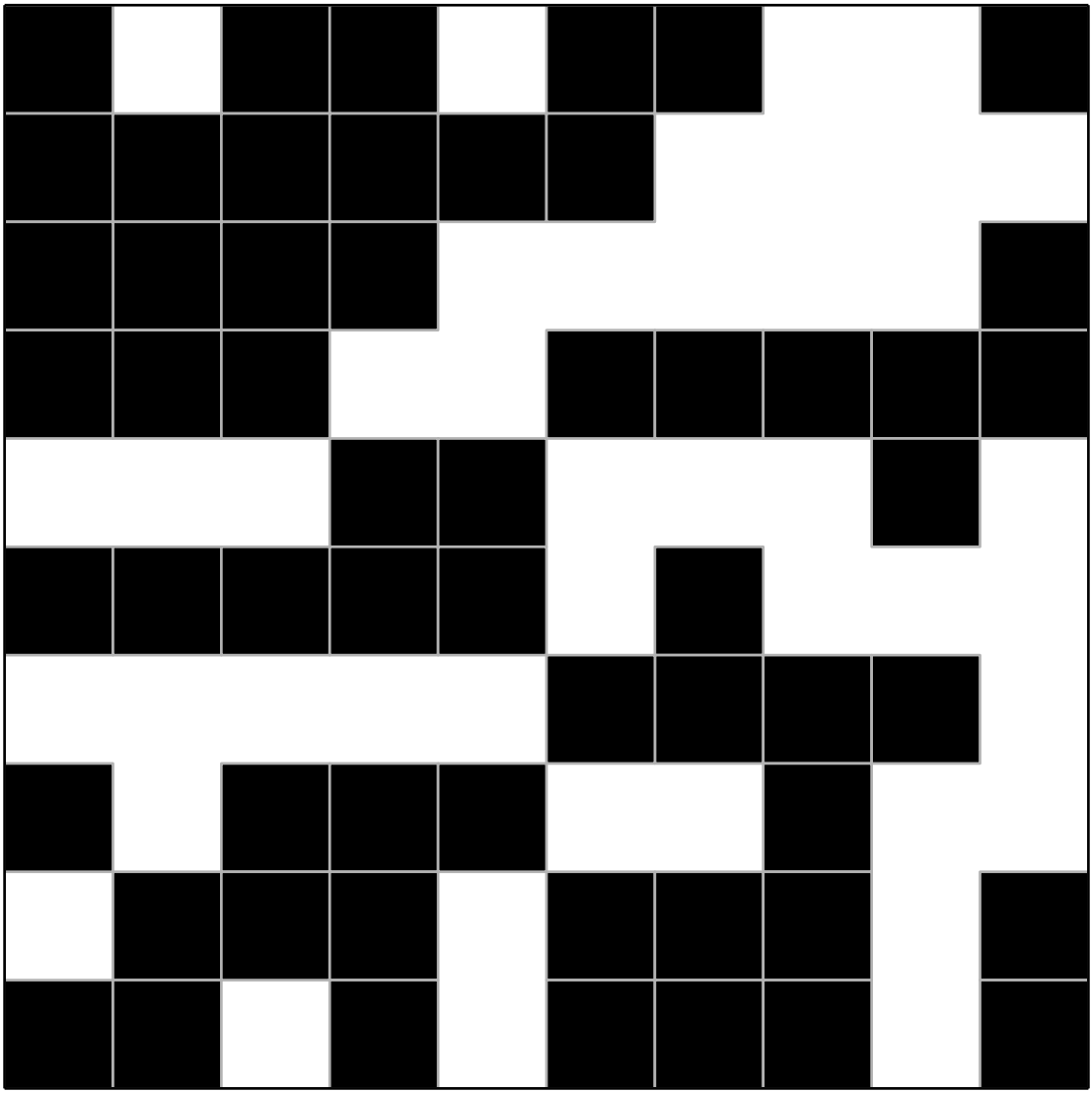

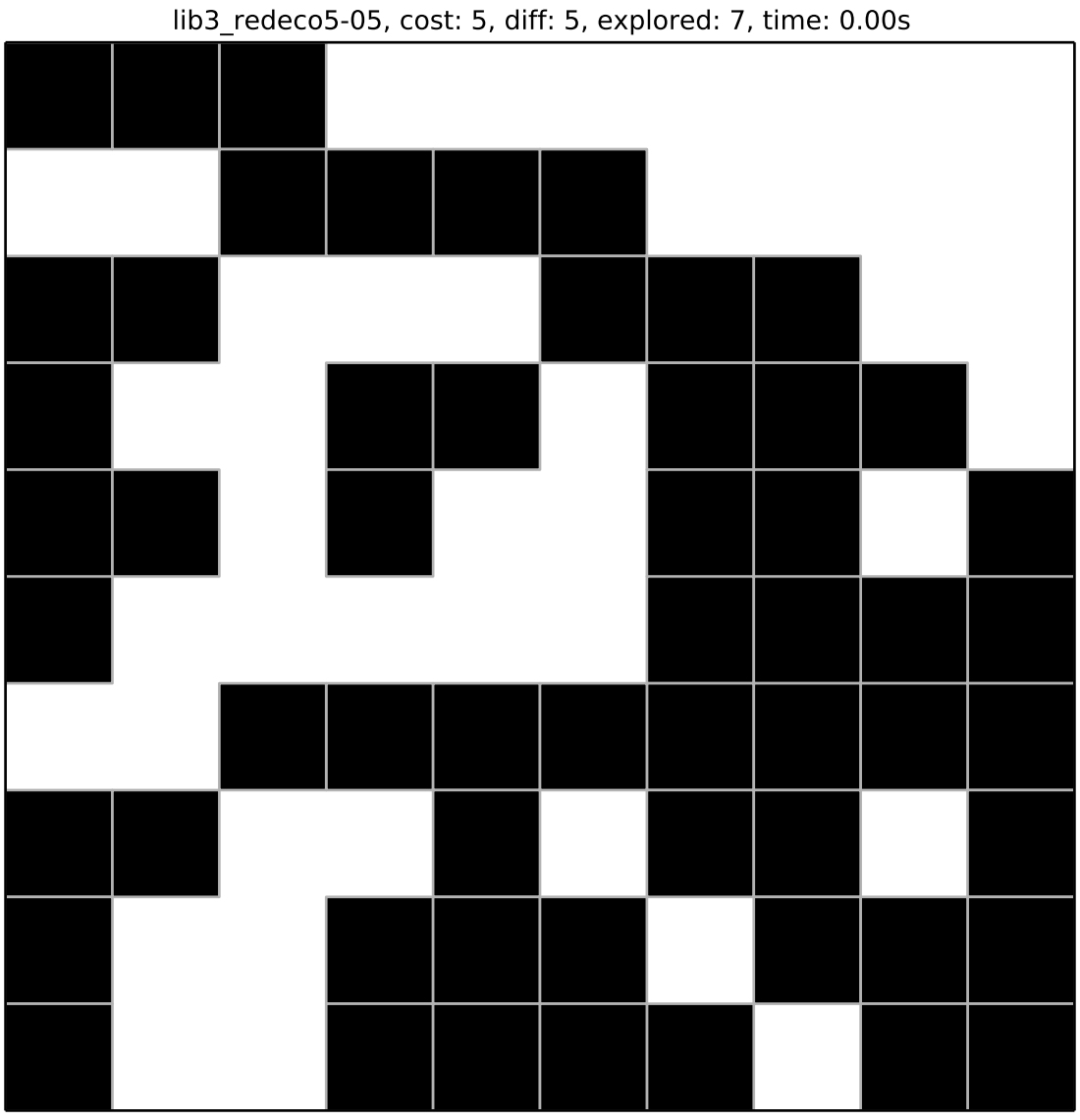
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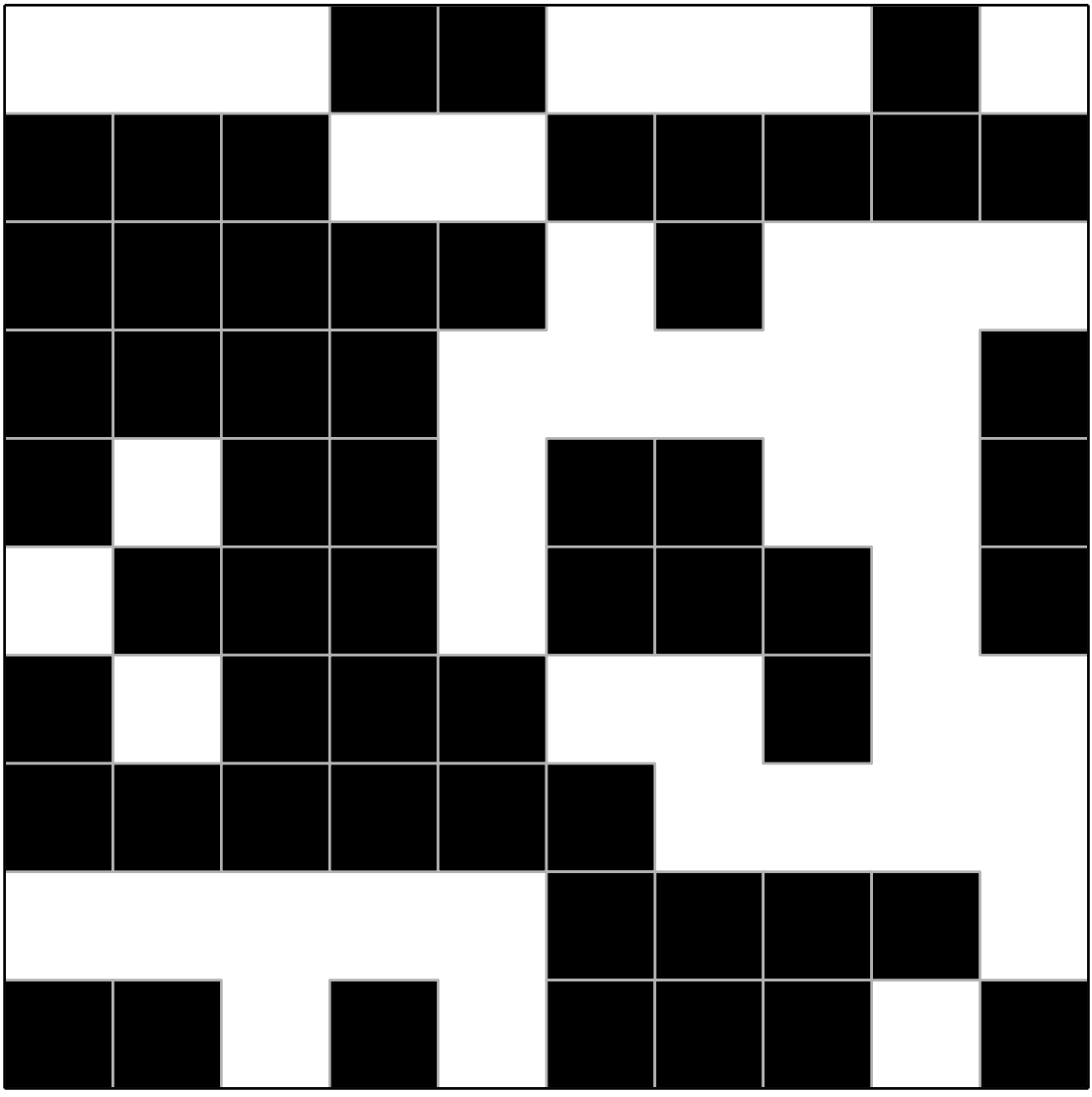

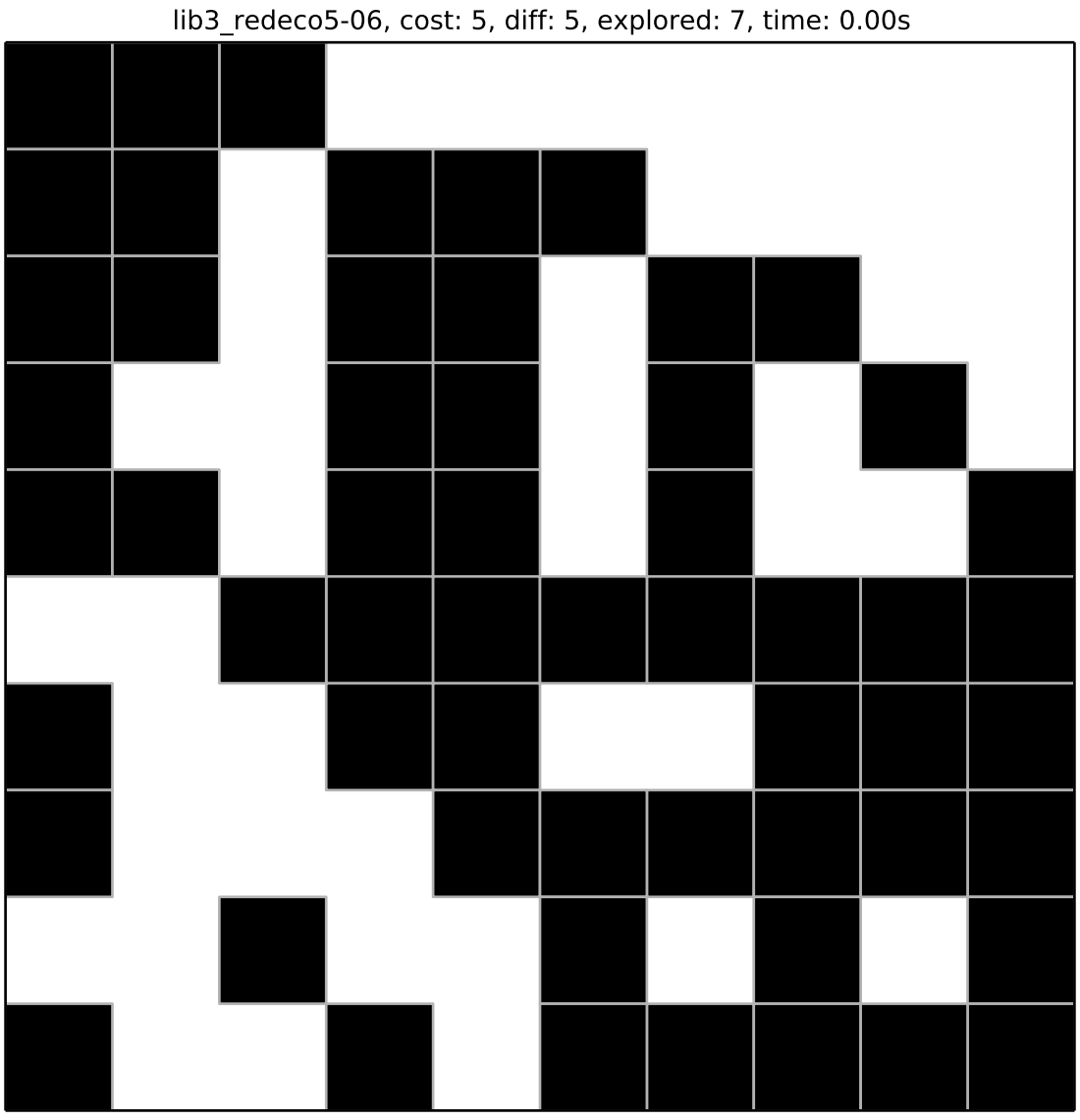
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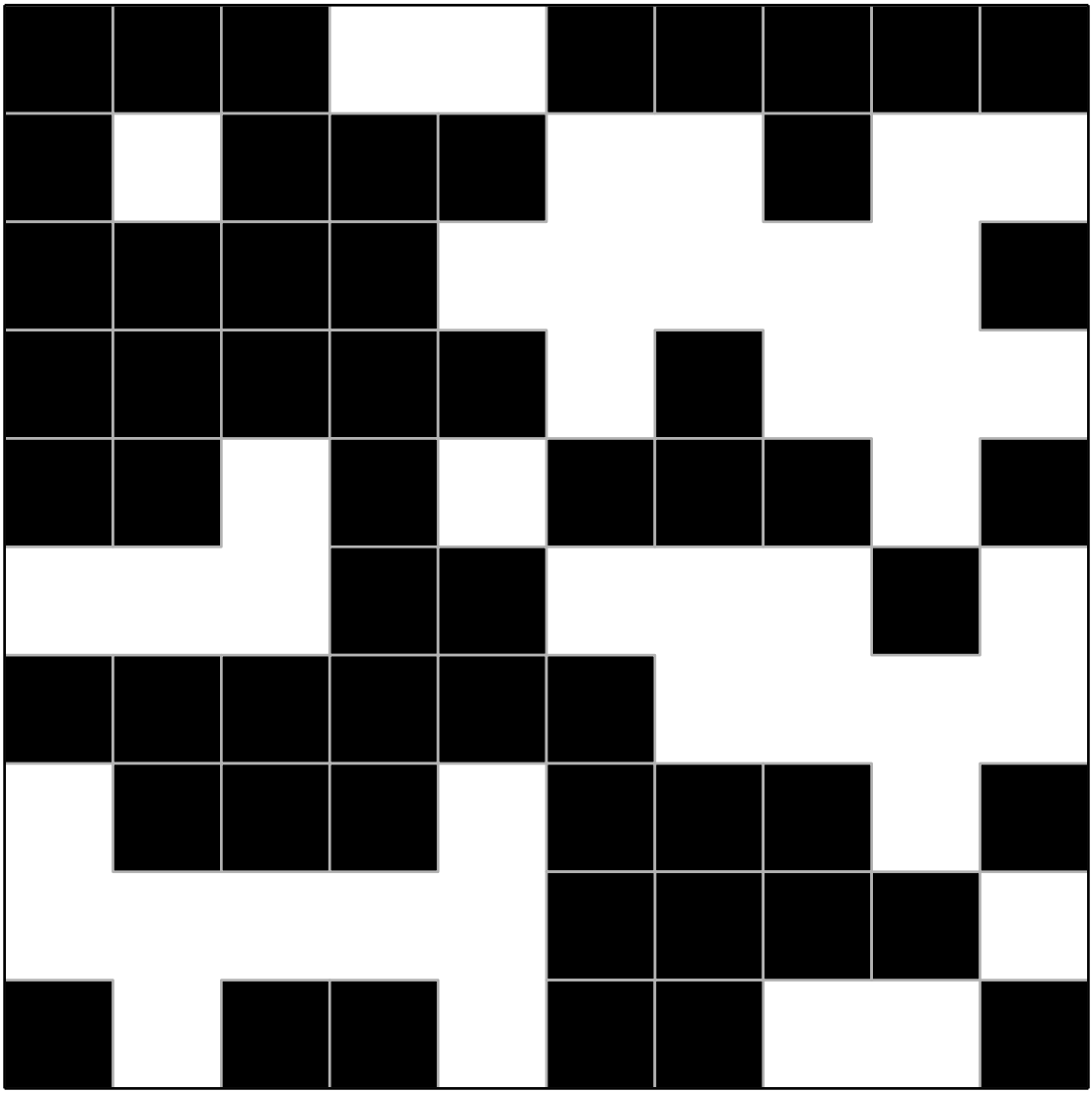
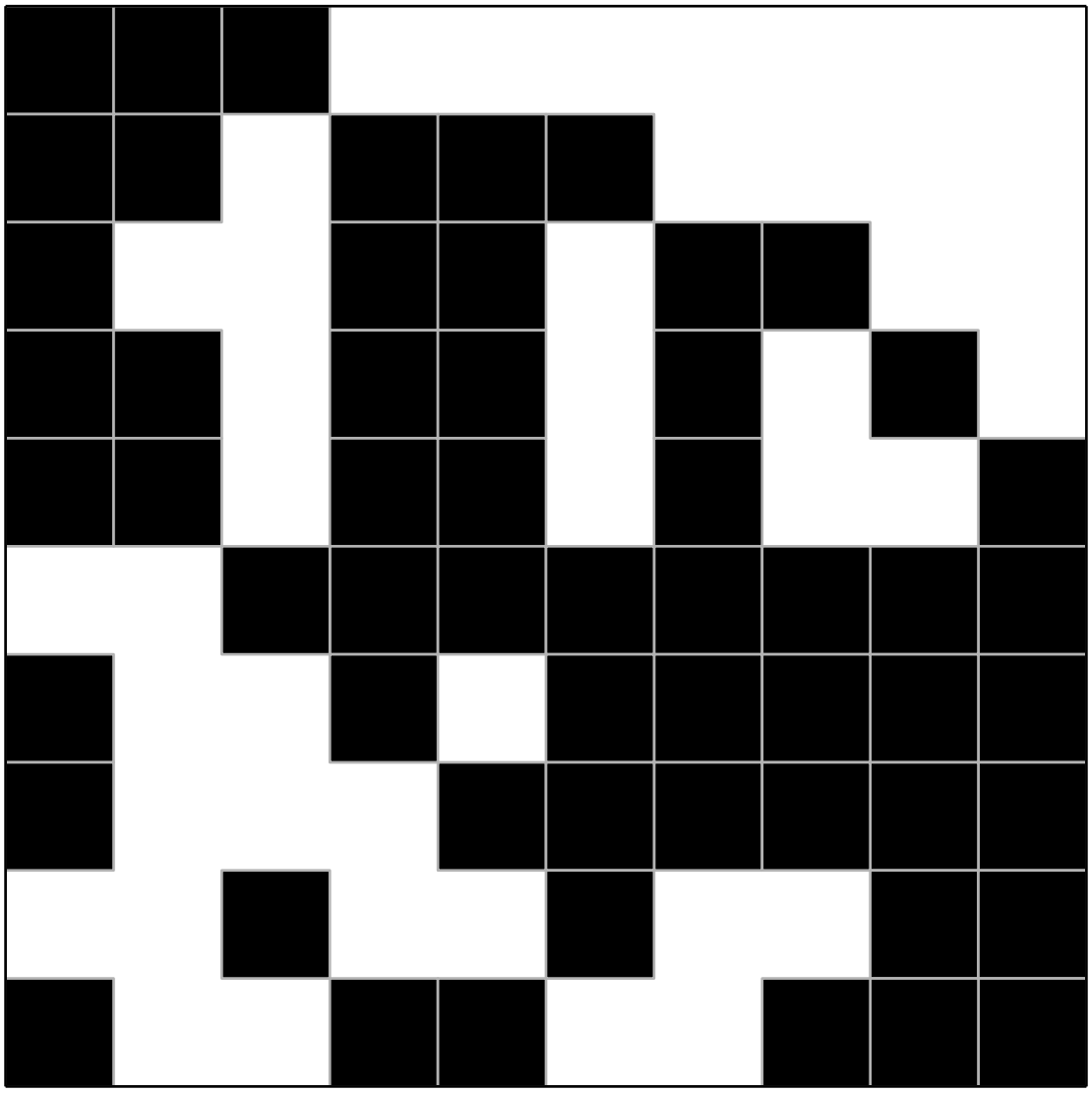
lib3_redeco5-07 10x10 (57) con: 5, var: 5

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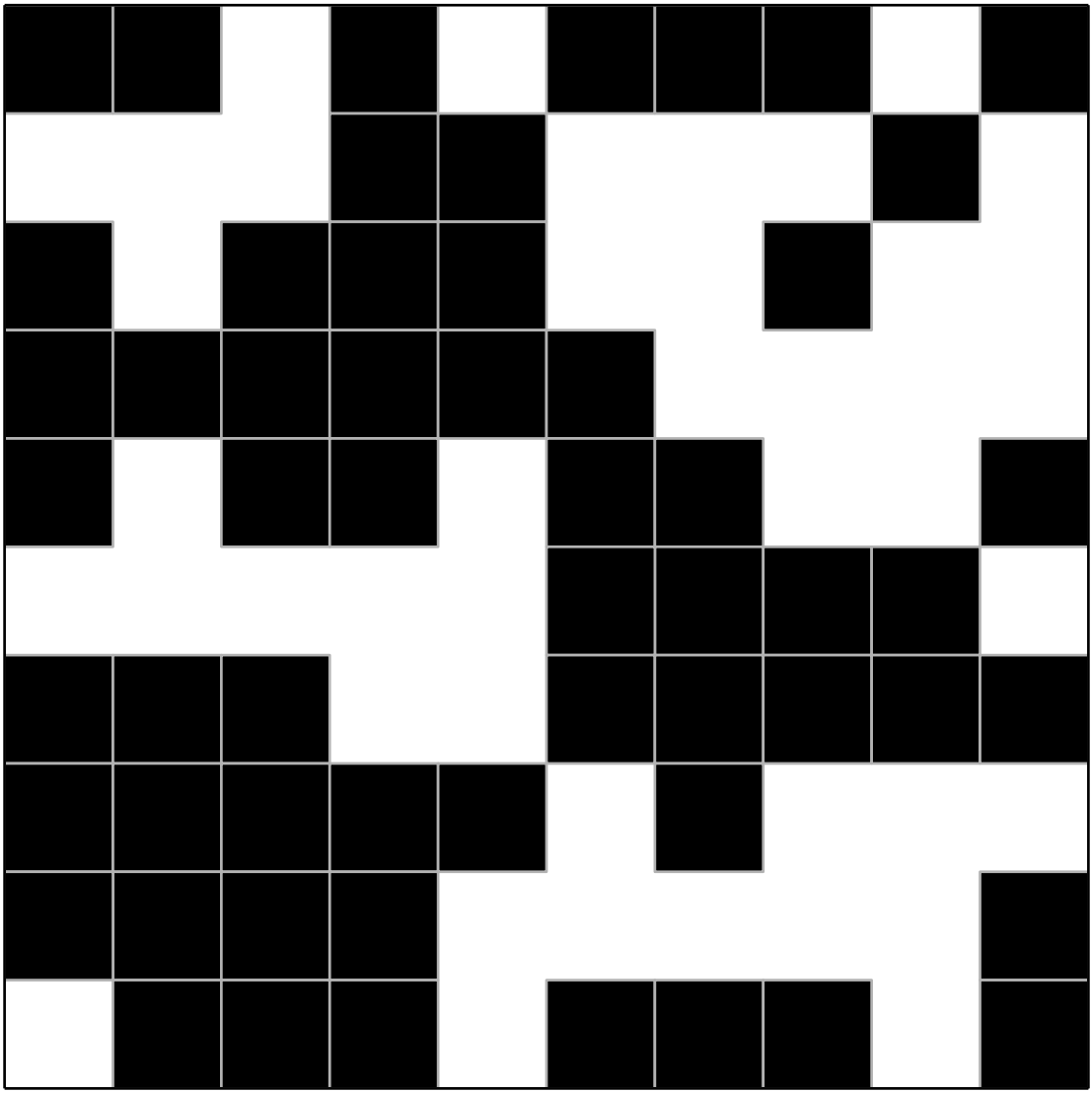
lib3_redeco5-08 10x10 (57) con: 5, var: 5



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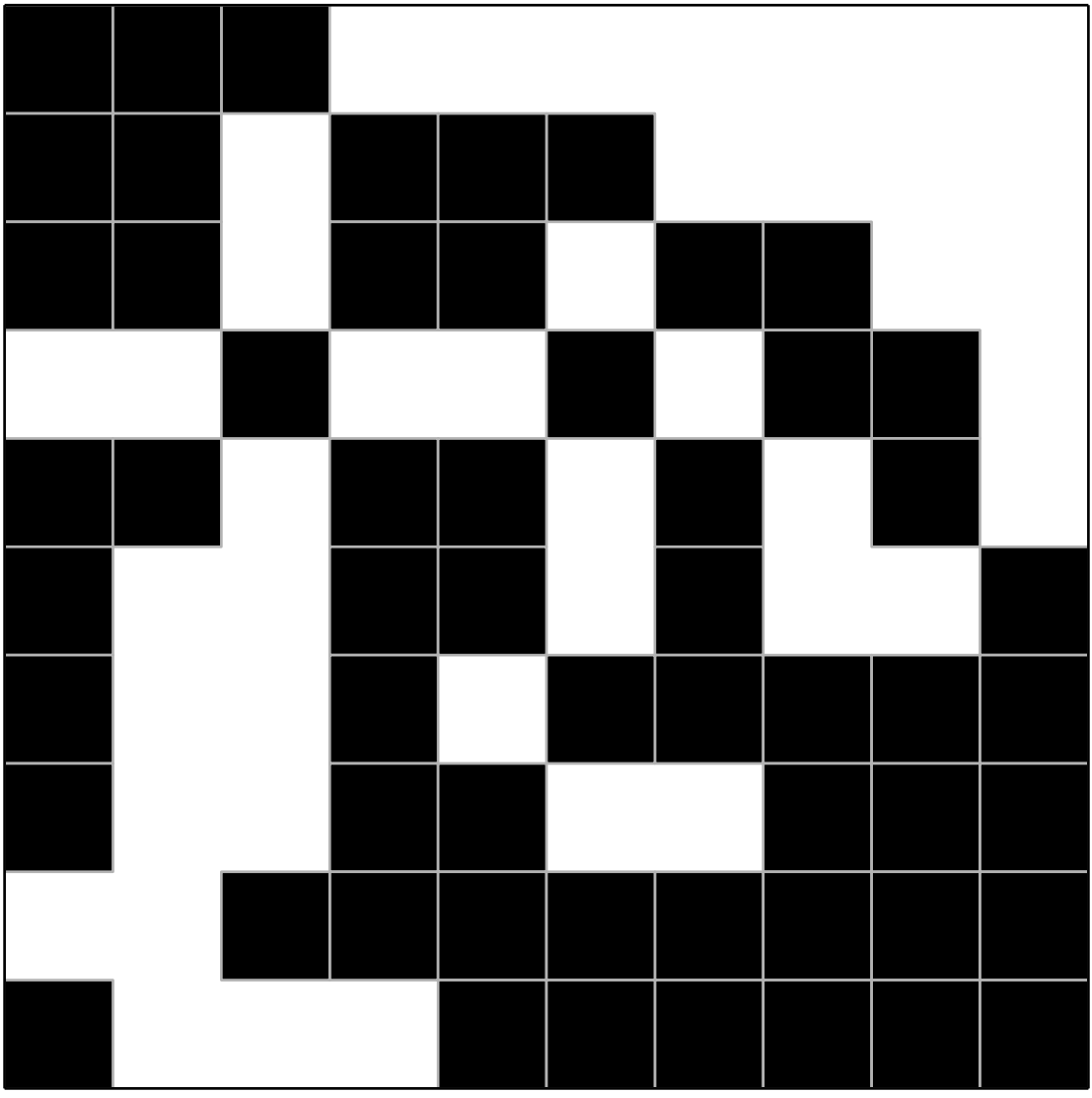

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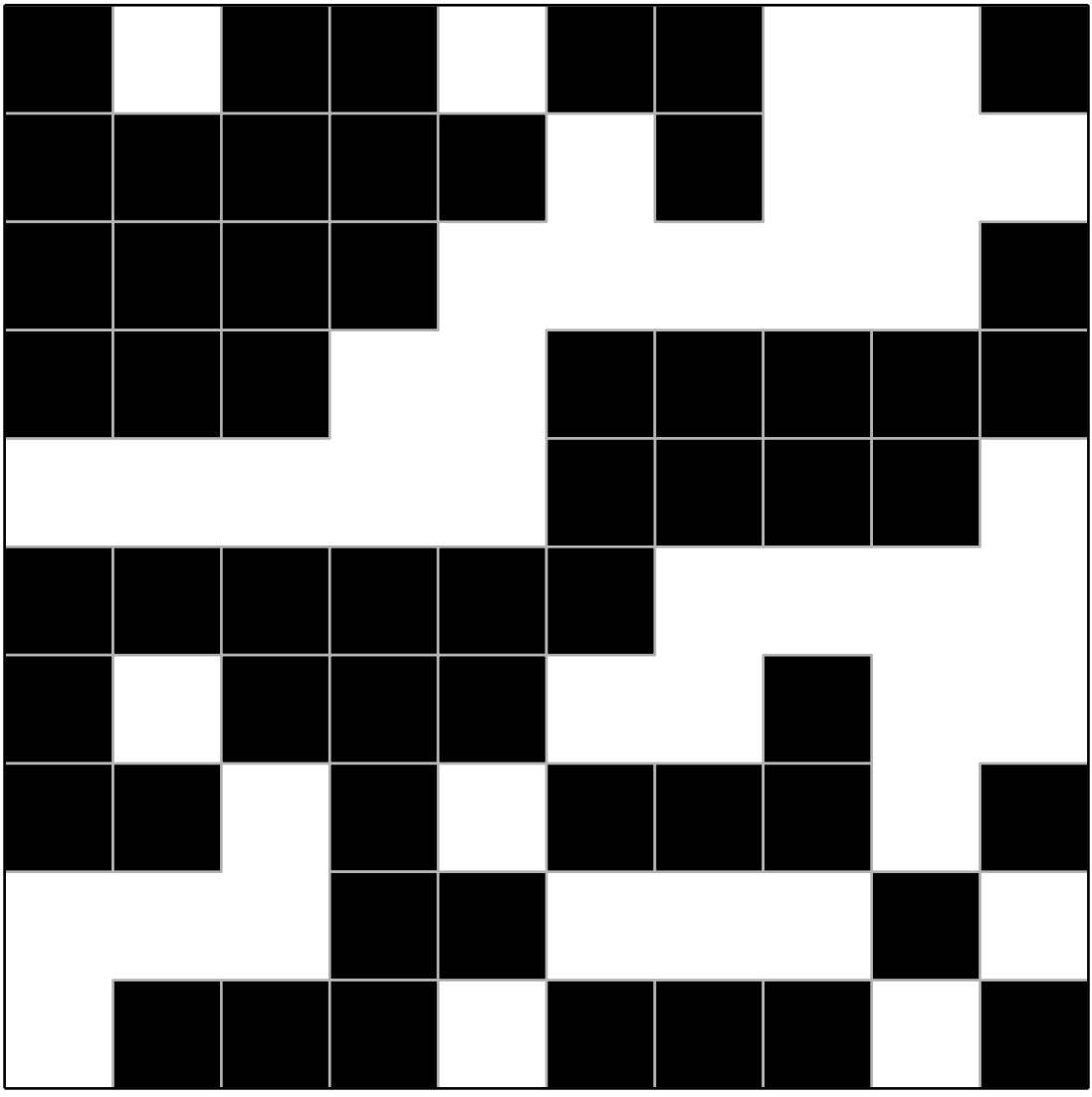

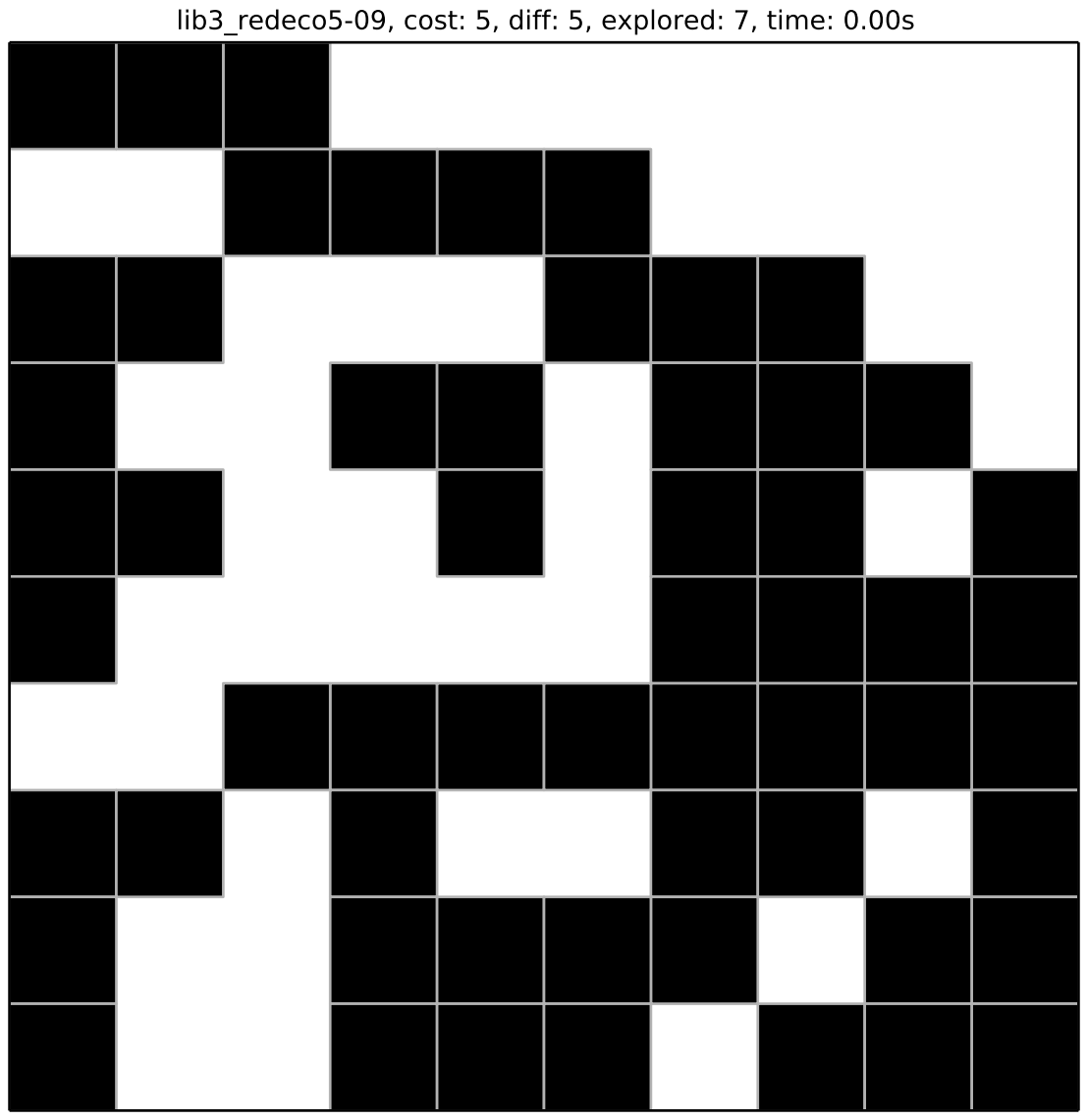
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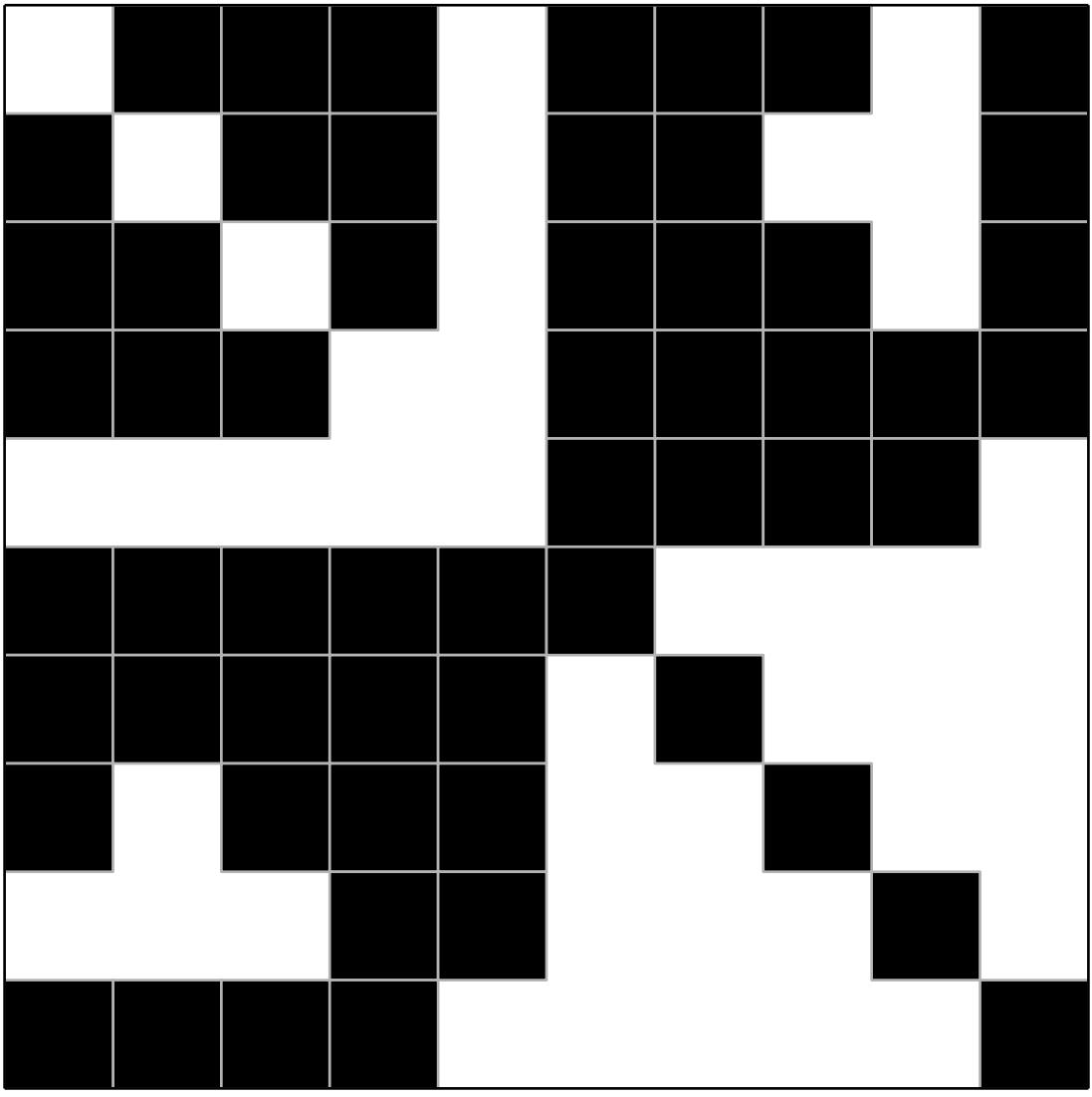
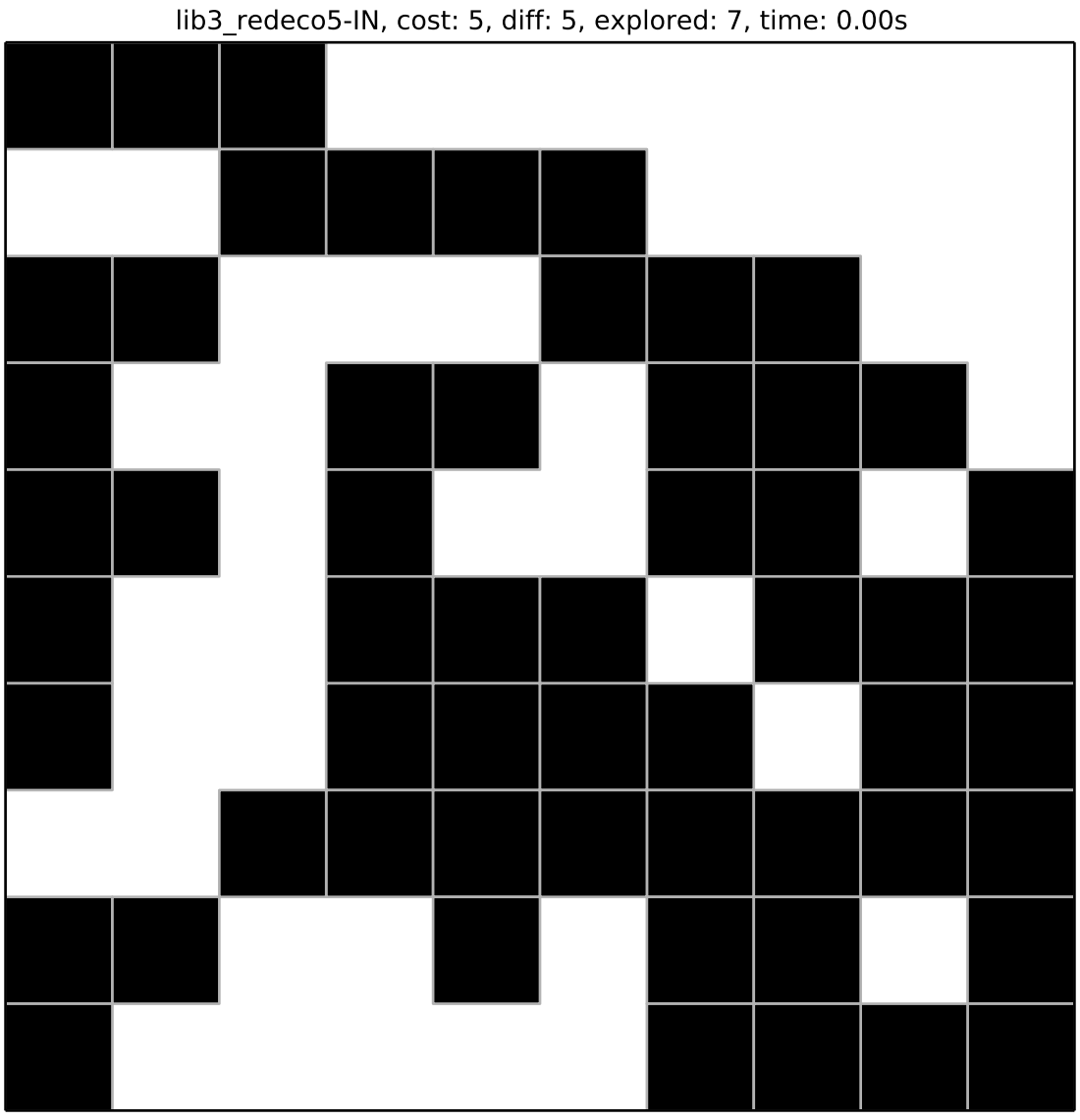
lib3_redeco5-IN 10x10 (57) con: 5, var: 5

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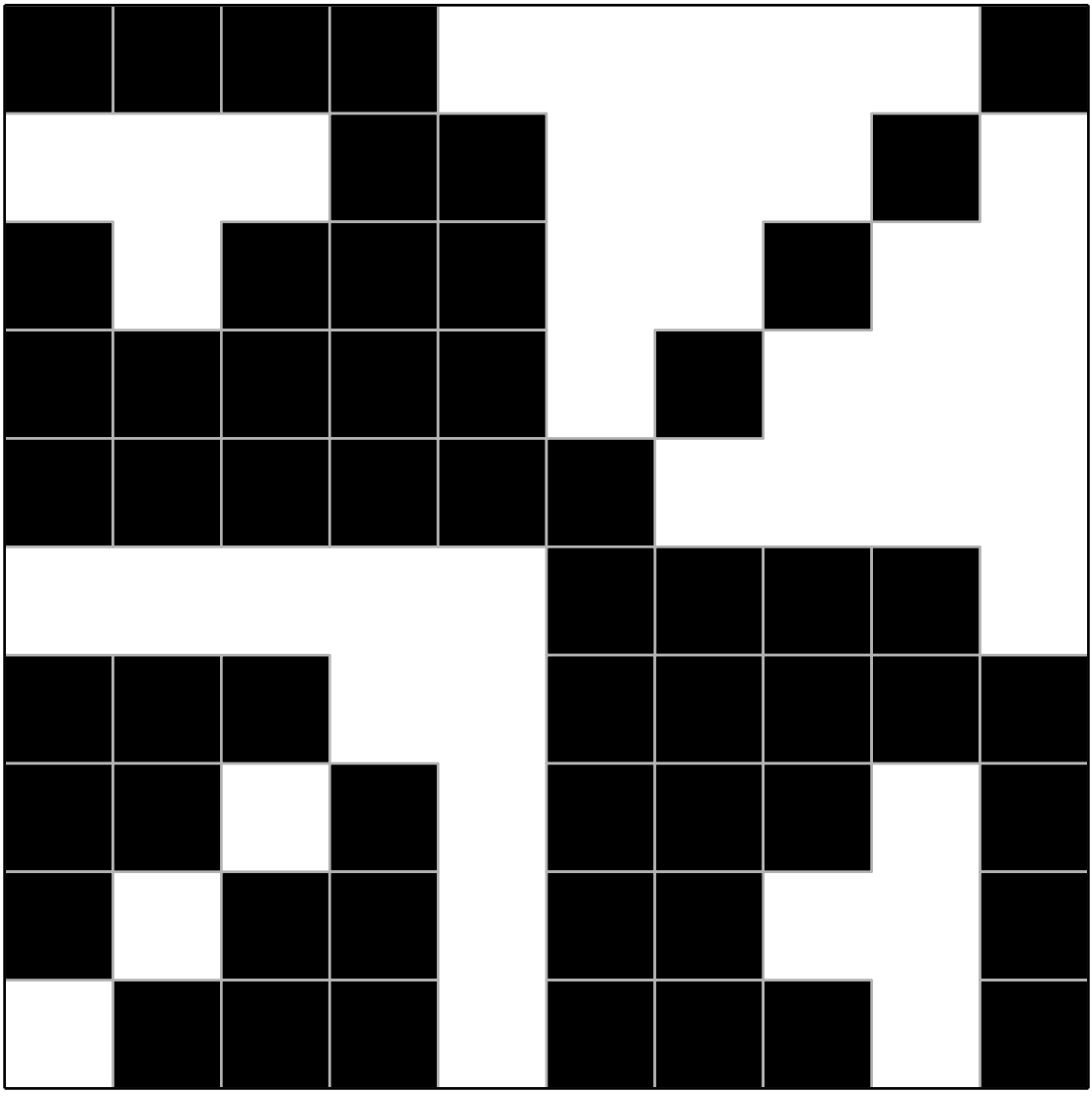
lib3_redeco5-RE 10x10 (57) con: 5, var: 5



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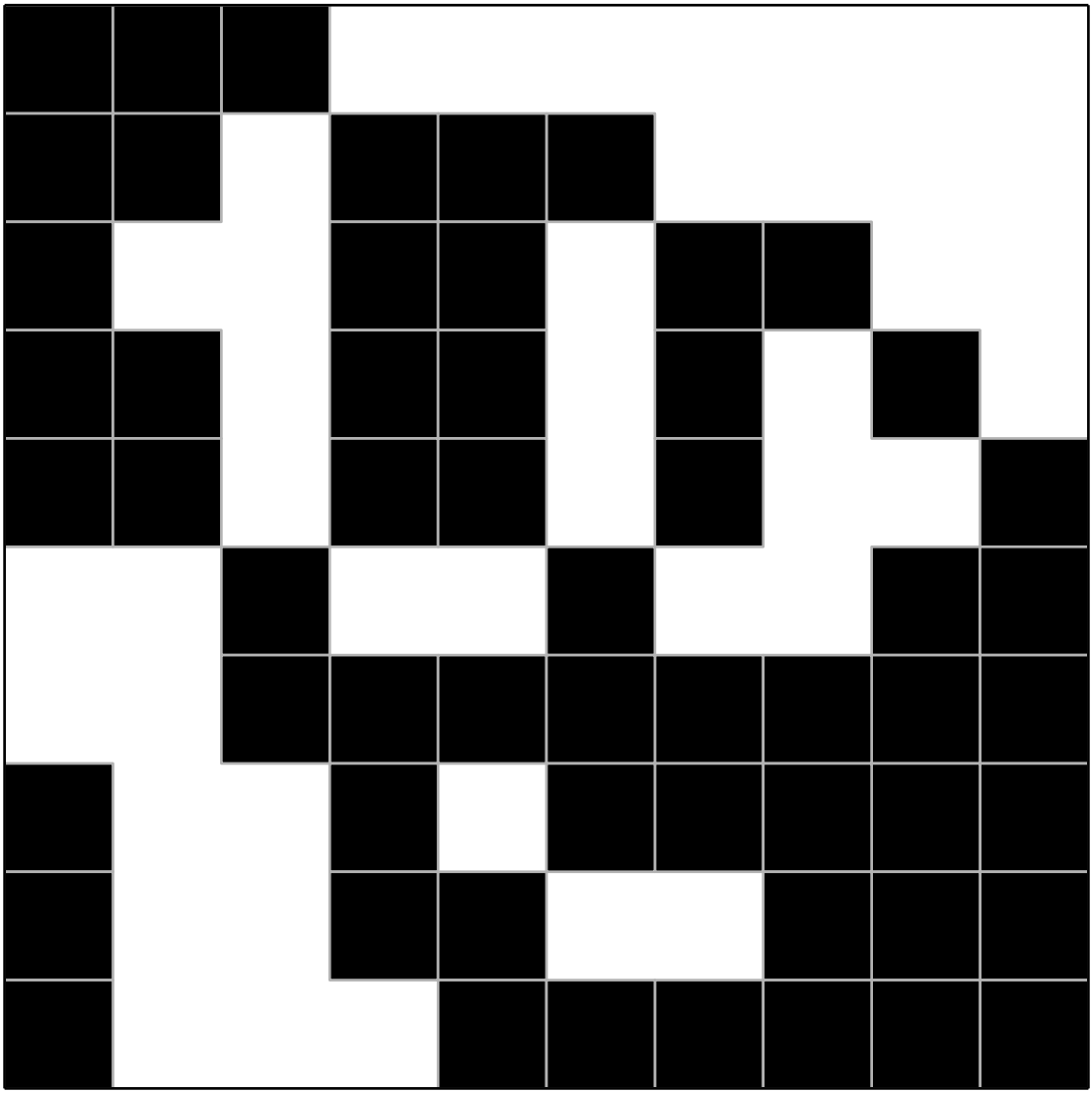
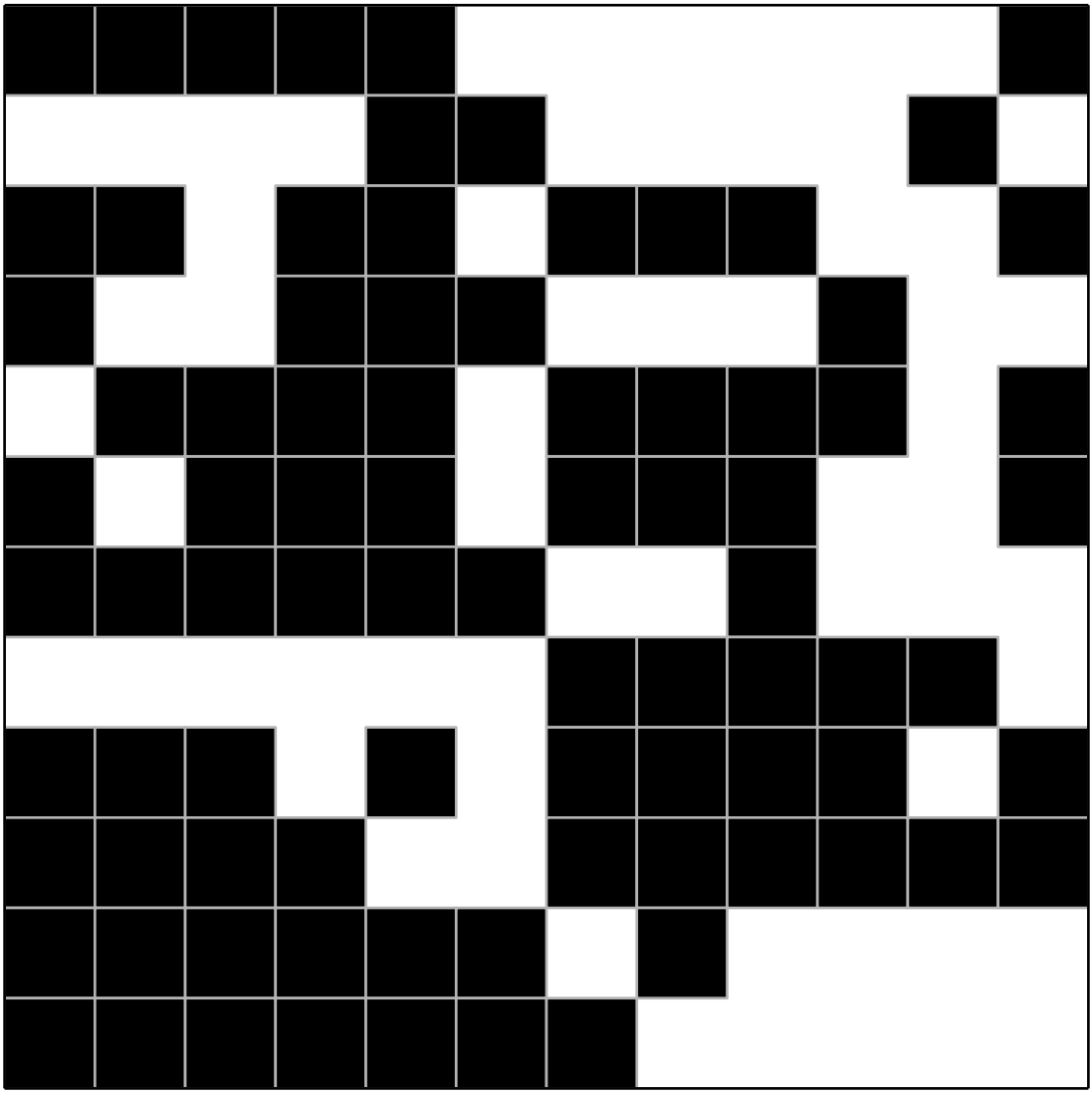


lib3_redeco6-00 12x12 (84) con: 6, var: 6



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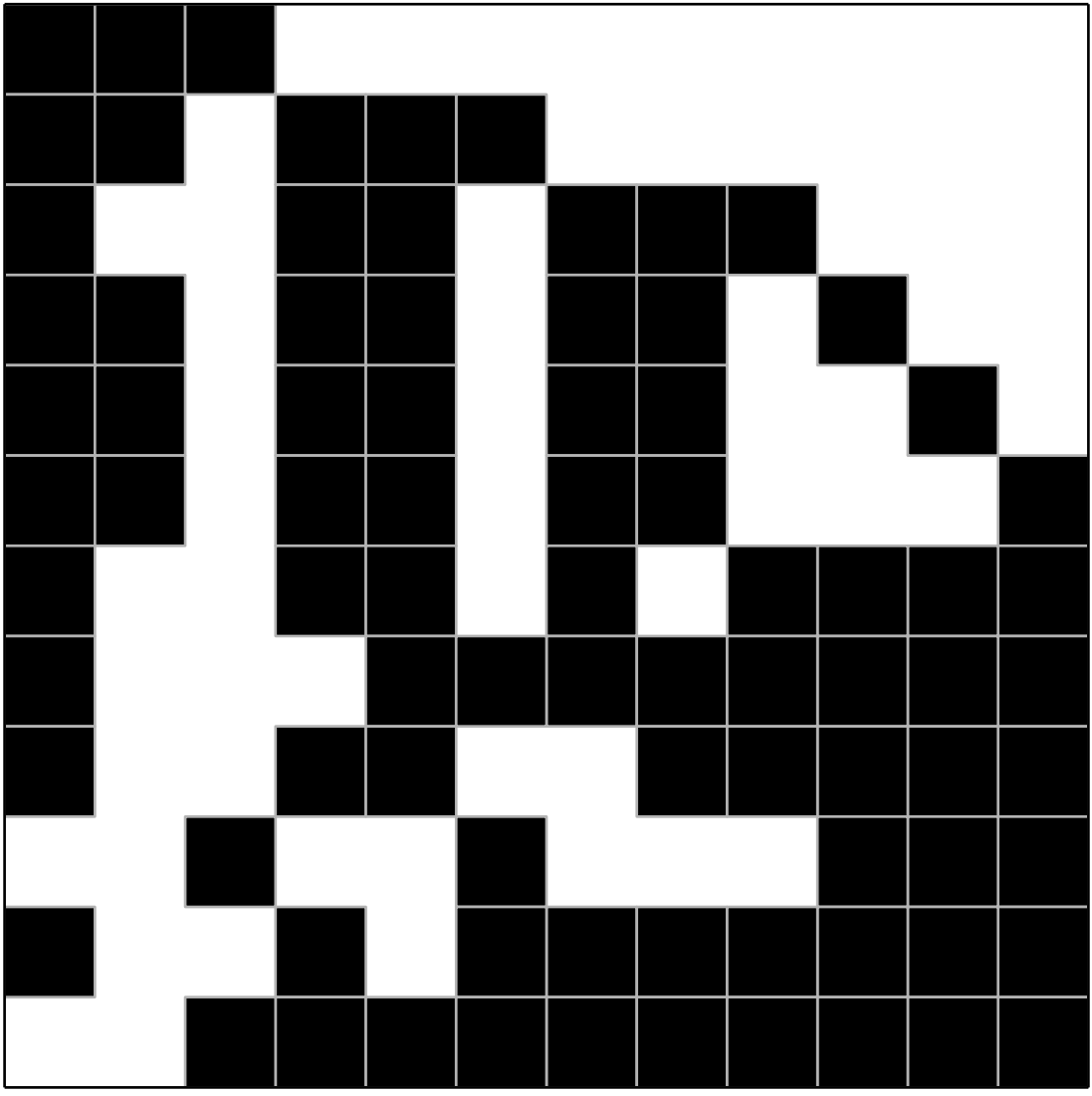
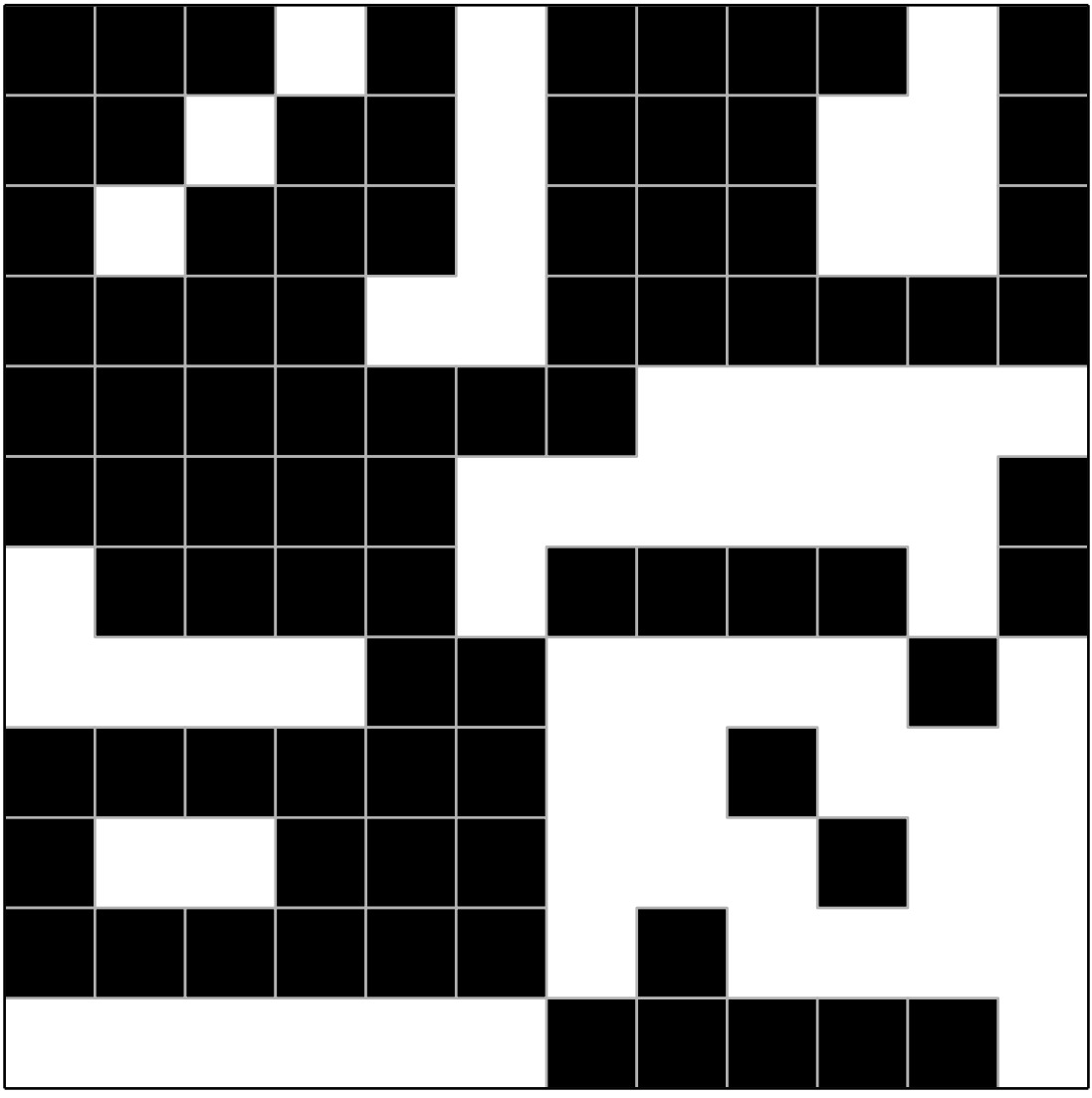
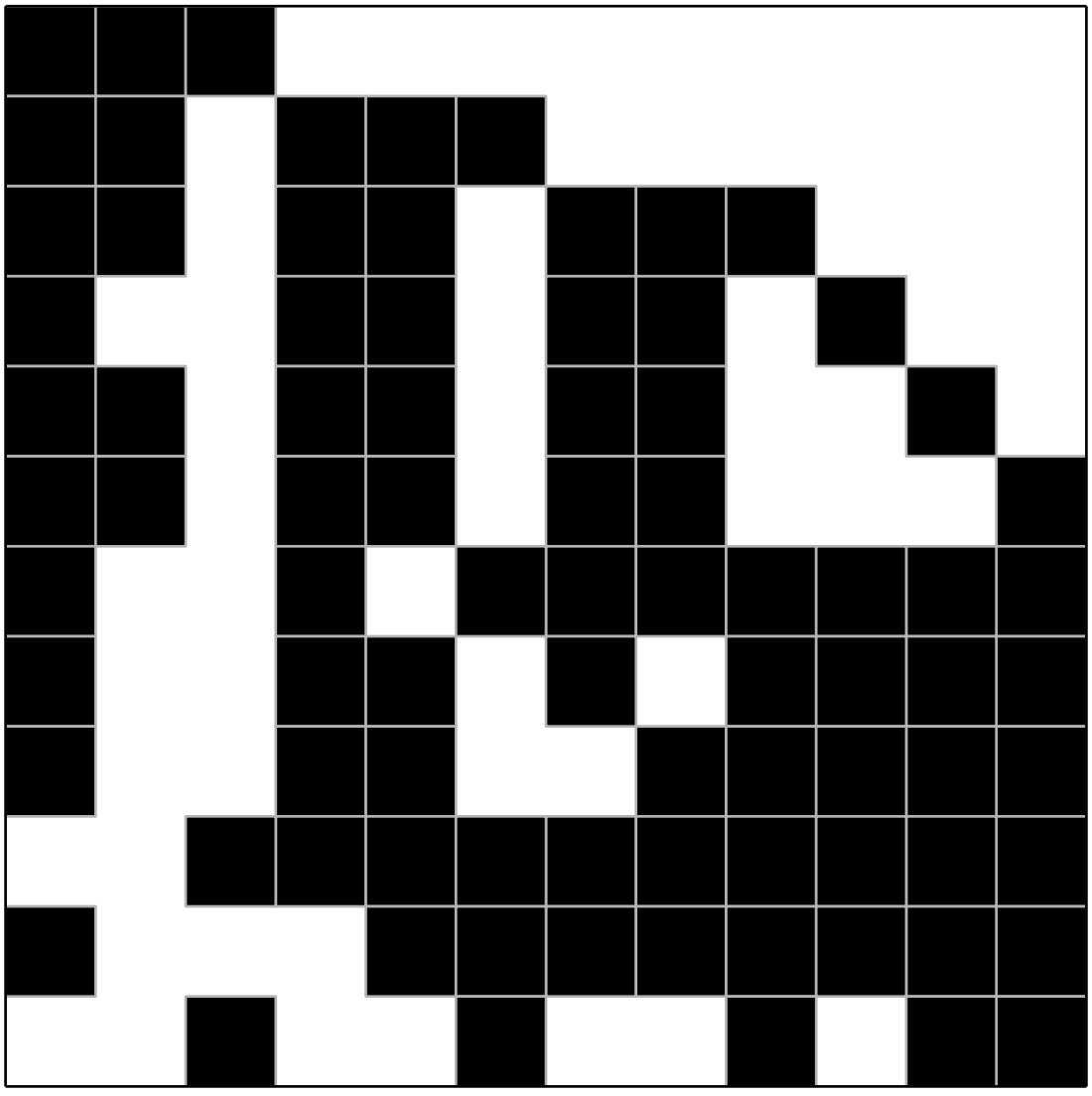


lib3_redeco6-01 12x12 (84) con: 6, var: 6

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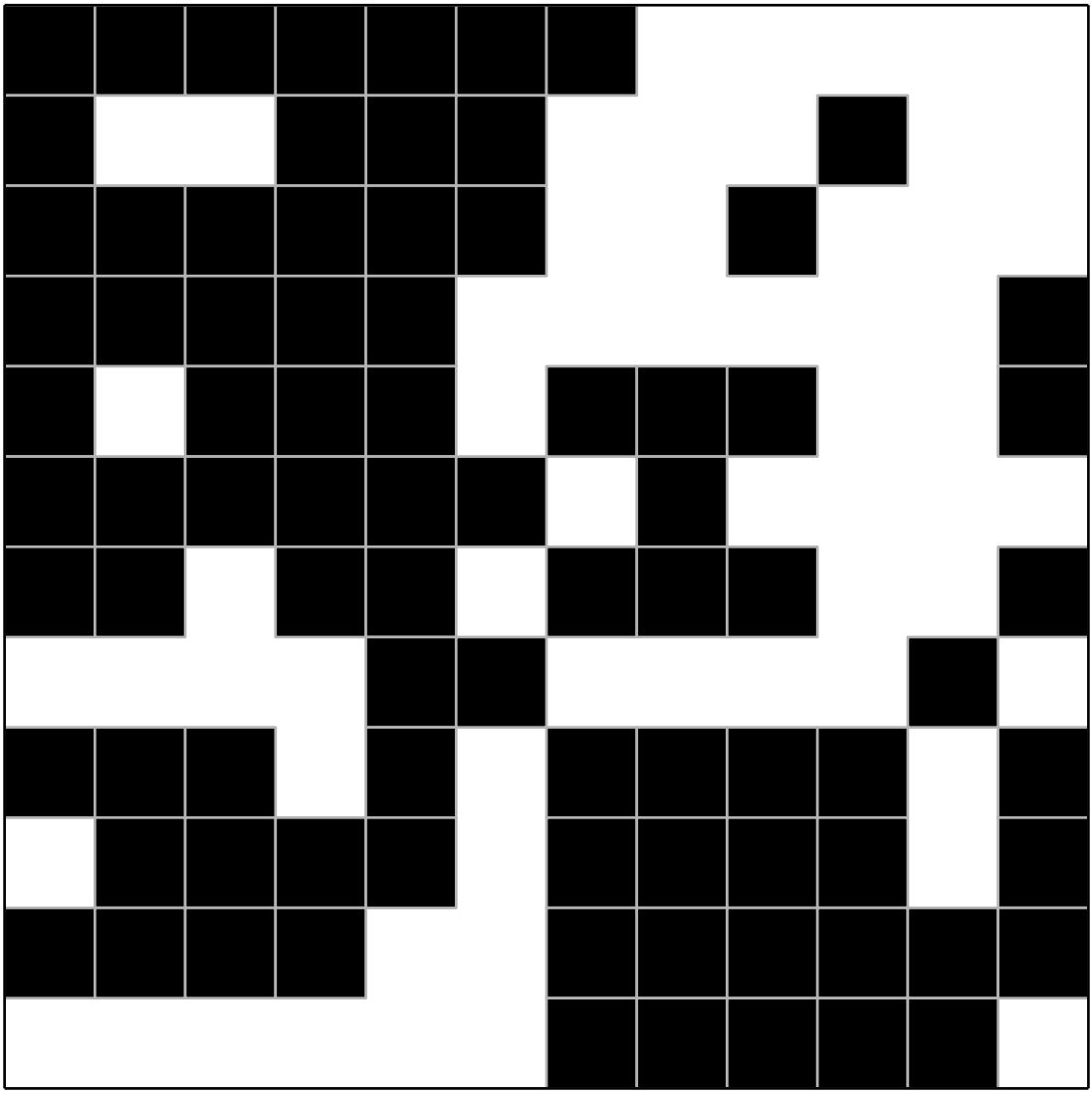
lib3_redeco6-02 12x12 (84) con: 6, var: 6



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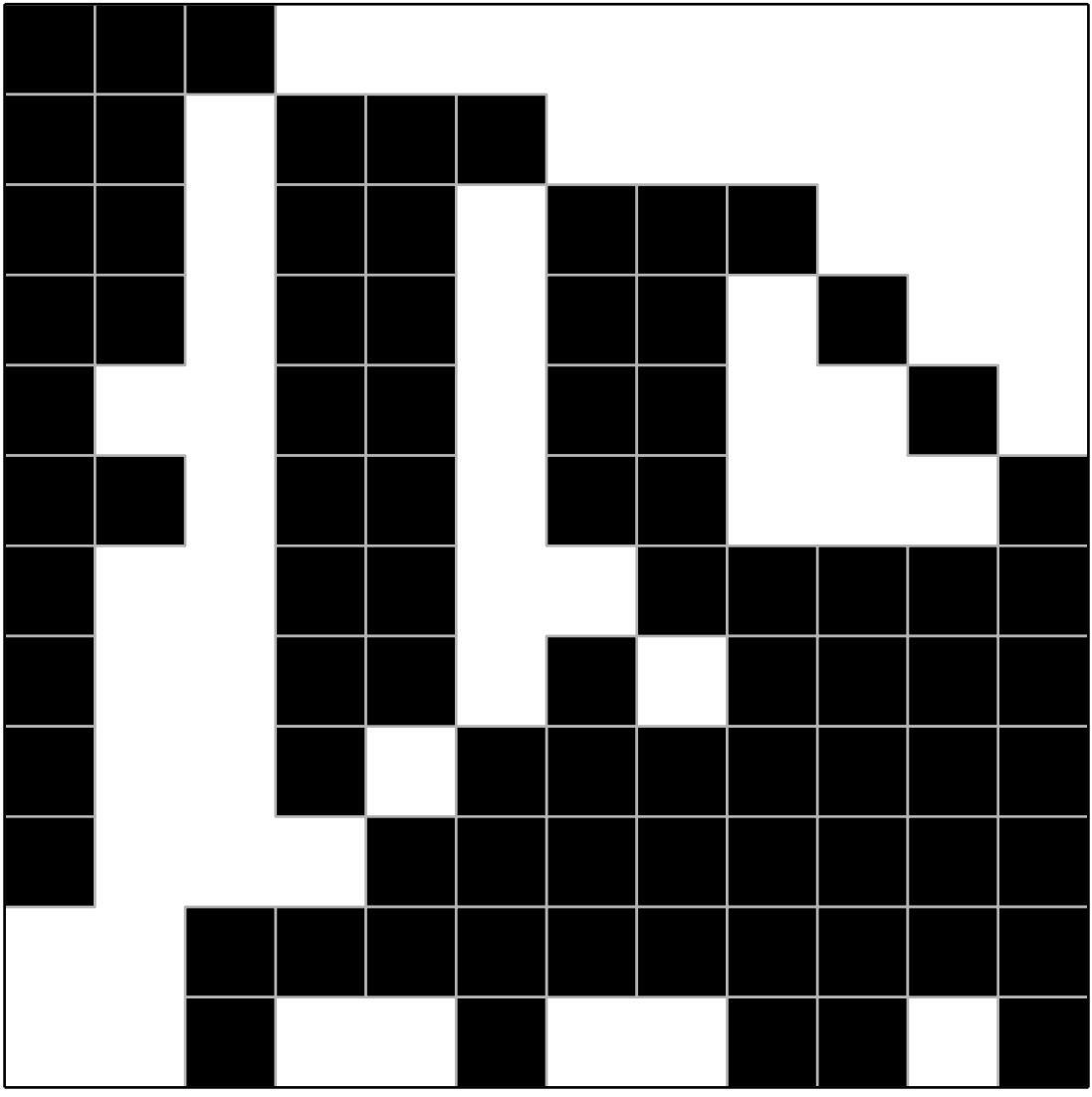
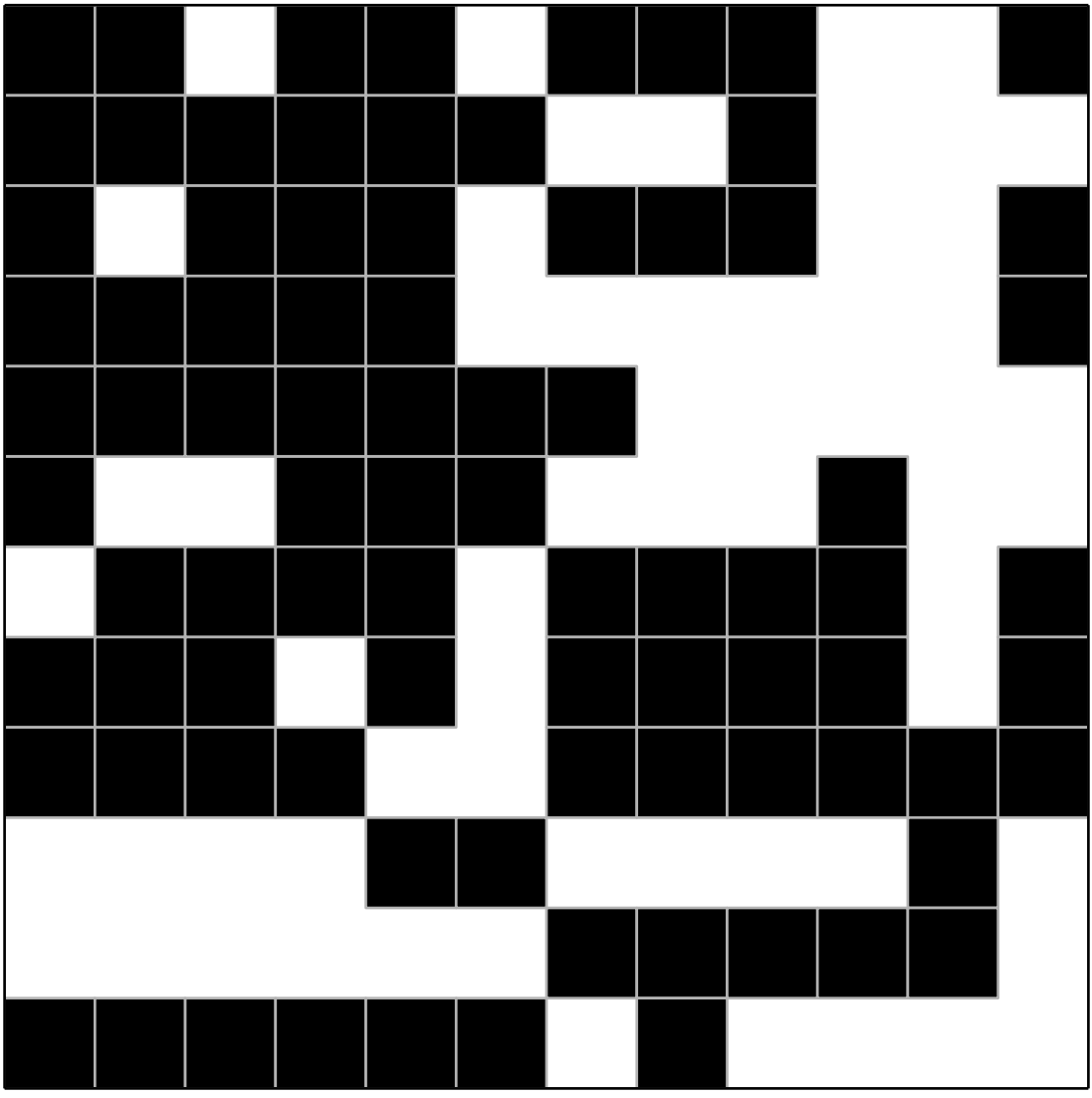


lib3_redeco6-03 12x12 (84) con: 6, var: 6



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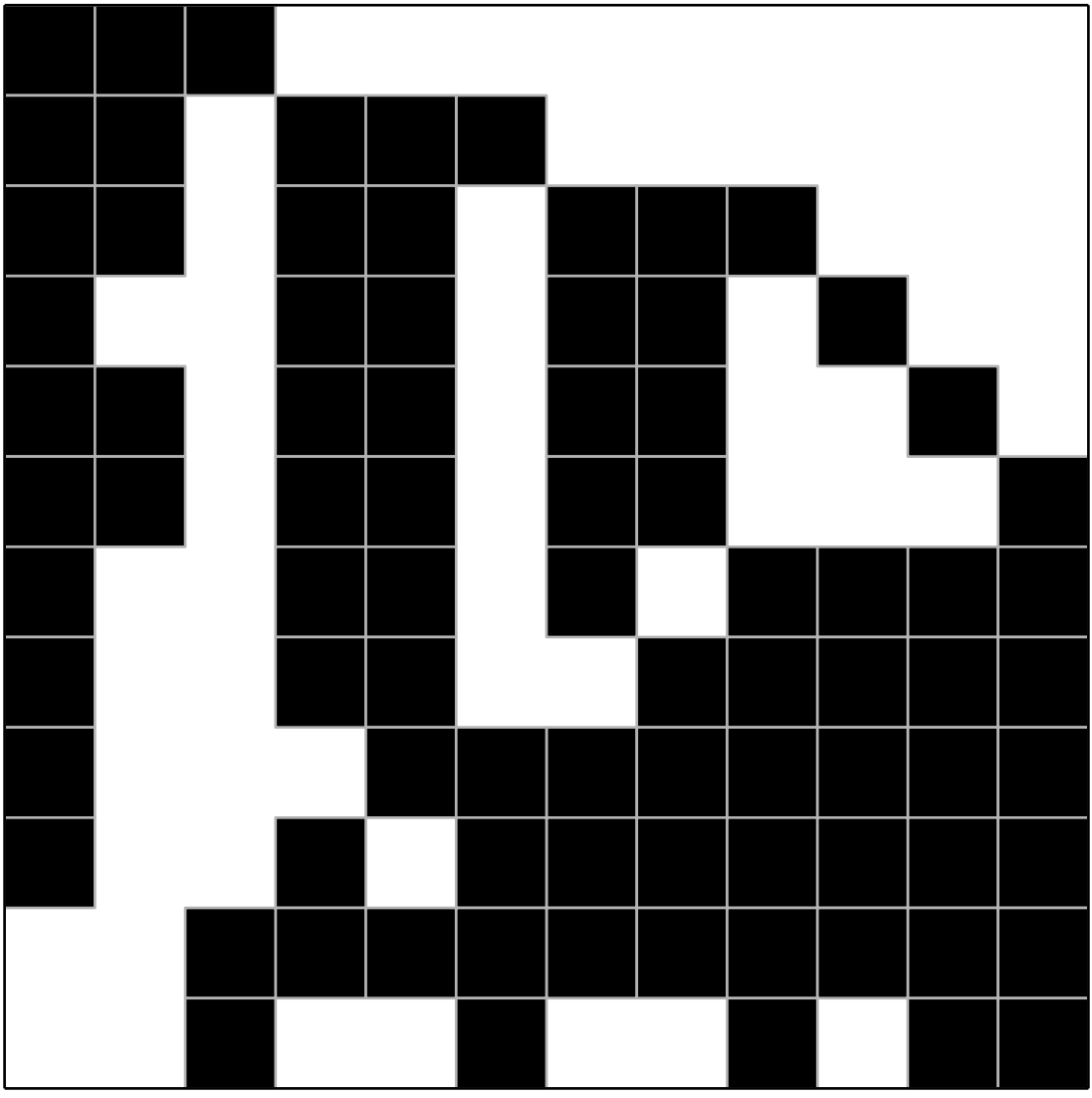
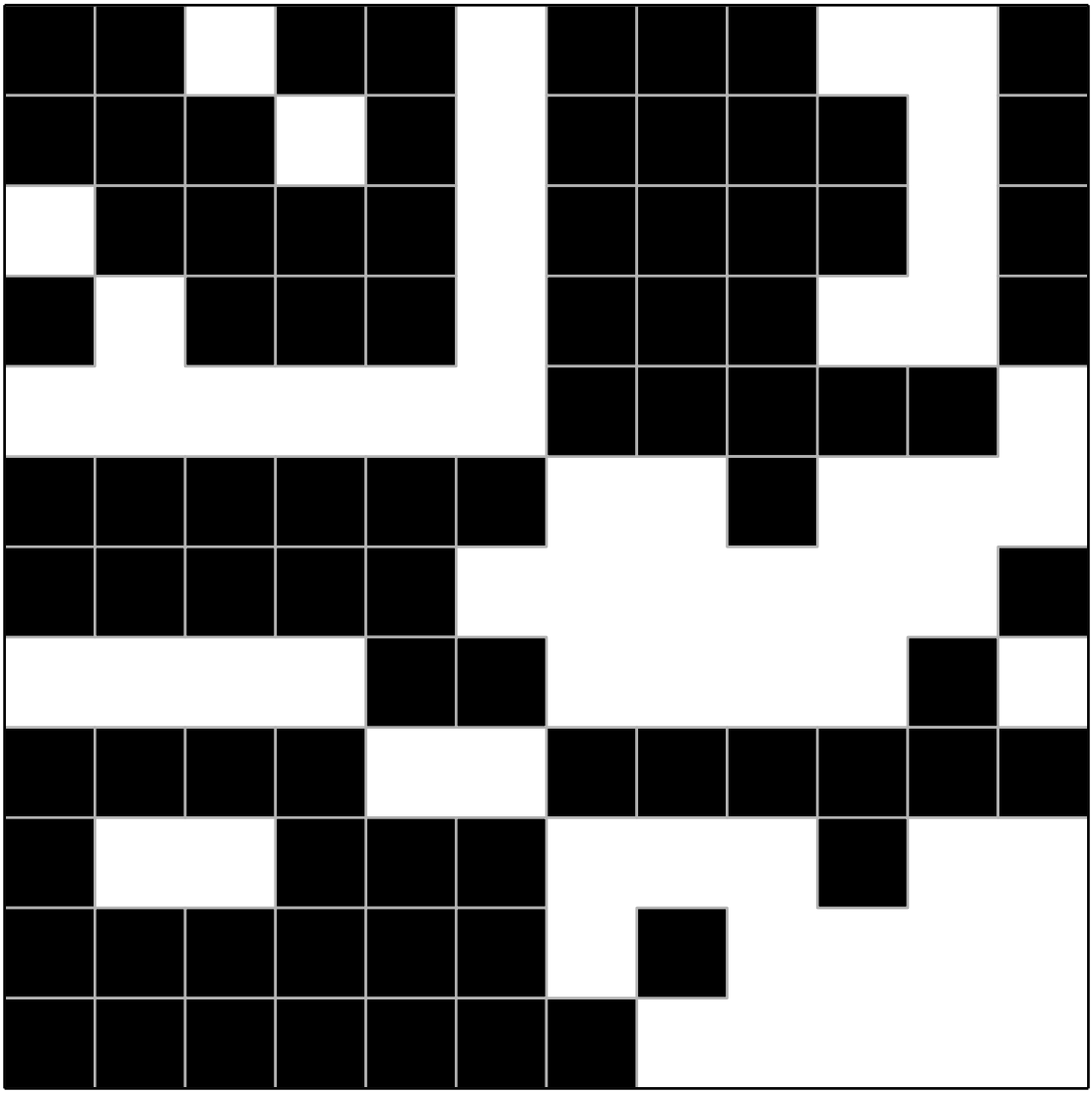
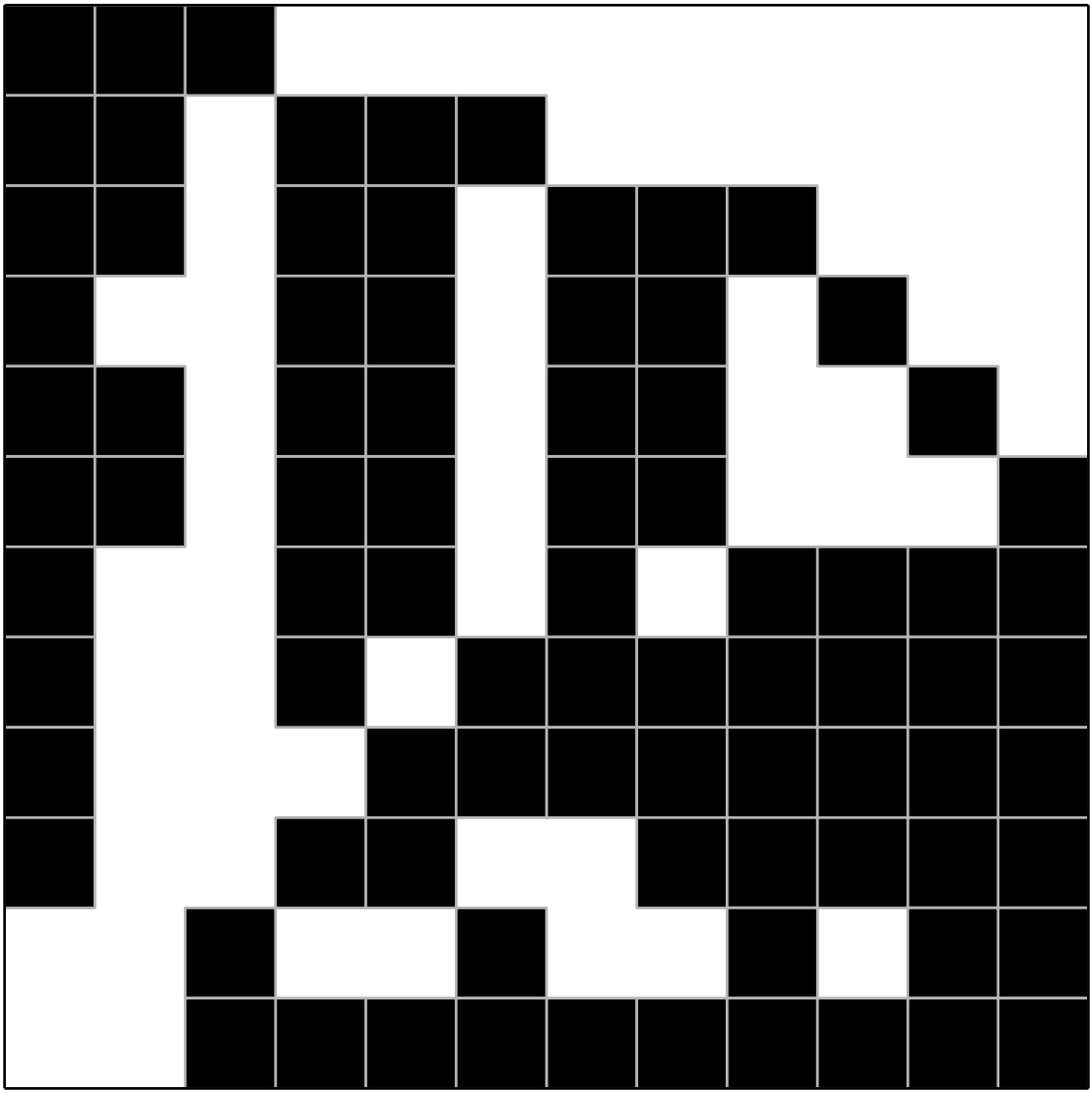
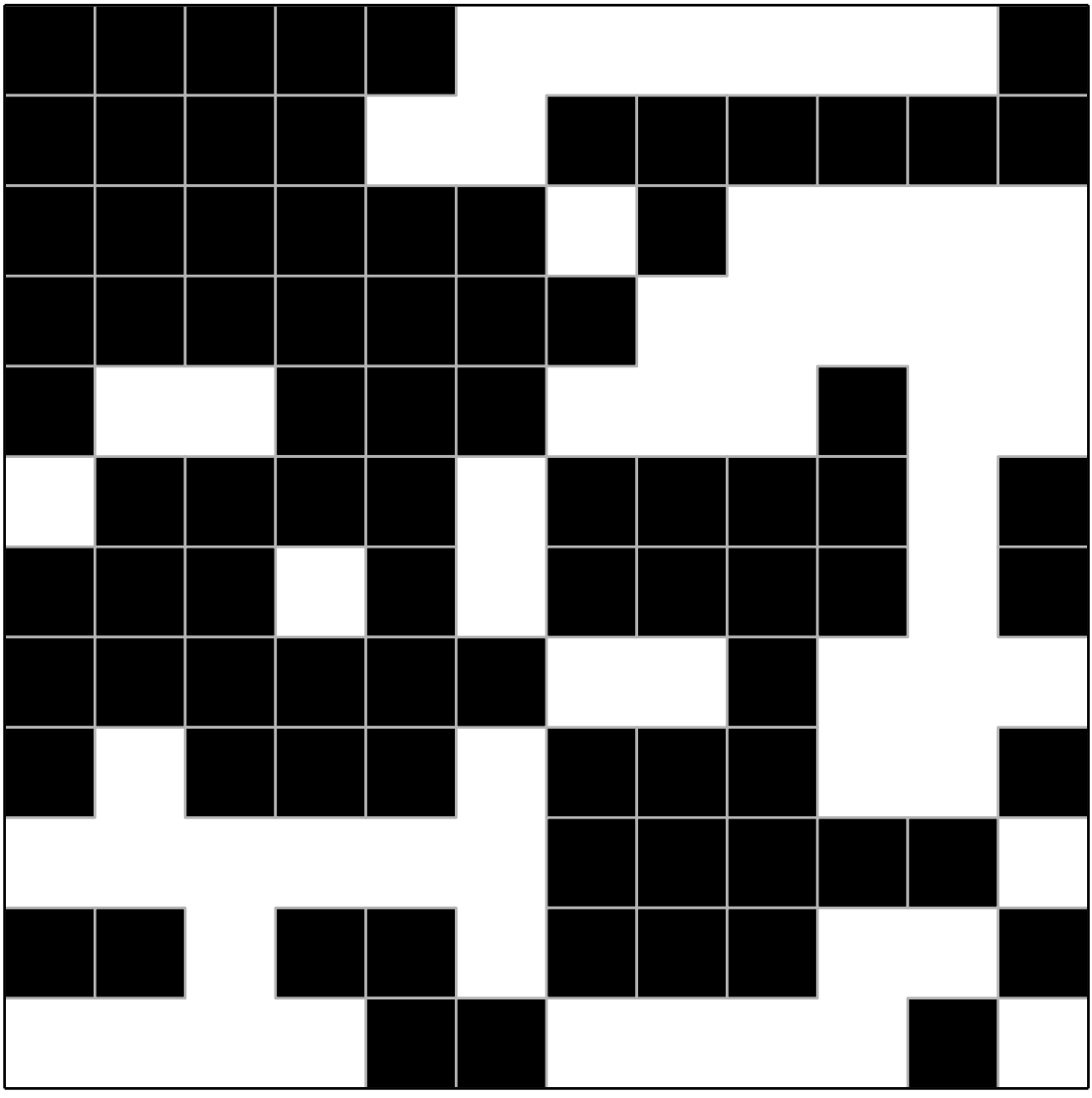


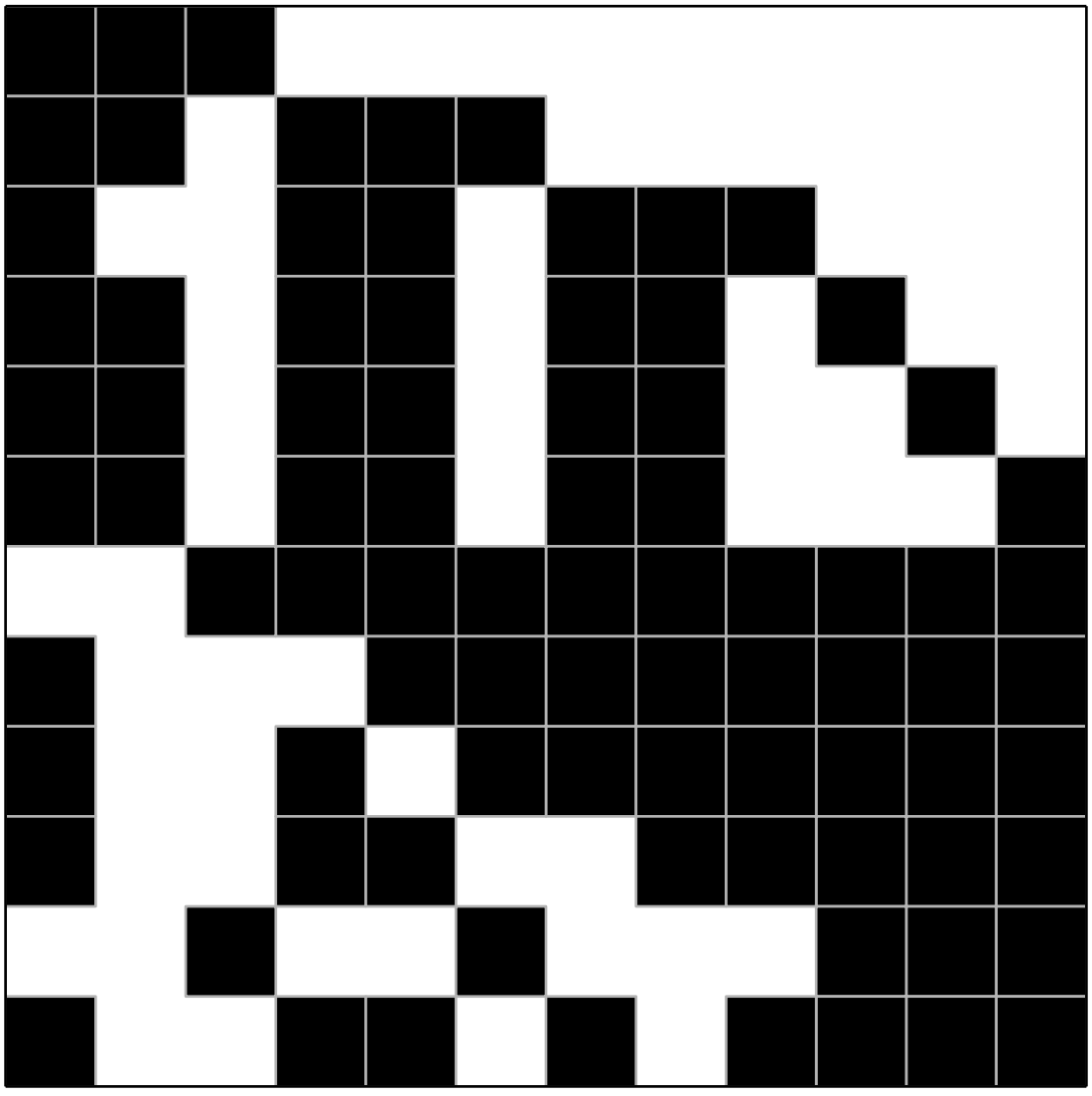
lib3_redeco6-04 12x12 (84) con: 6, var: 6




lib3_redeco6-04, cost: 6, diff: 6, explored: 8, time: 0.00s

lib3_redeco6-05 12x12 (84) con: 6, var: 6

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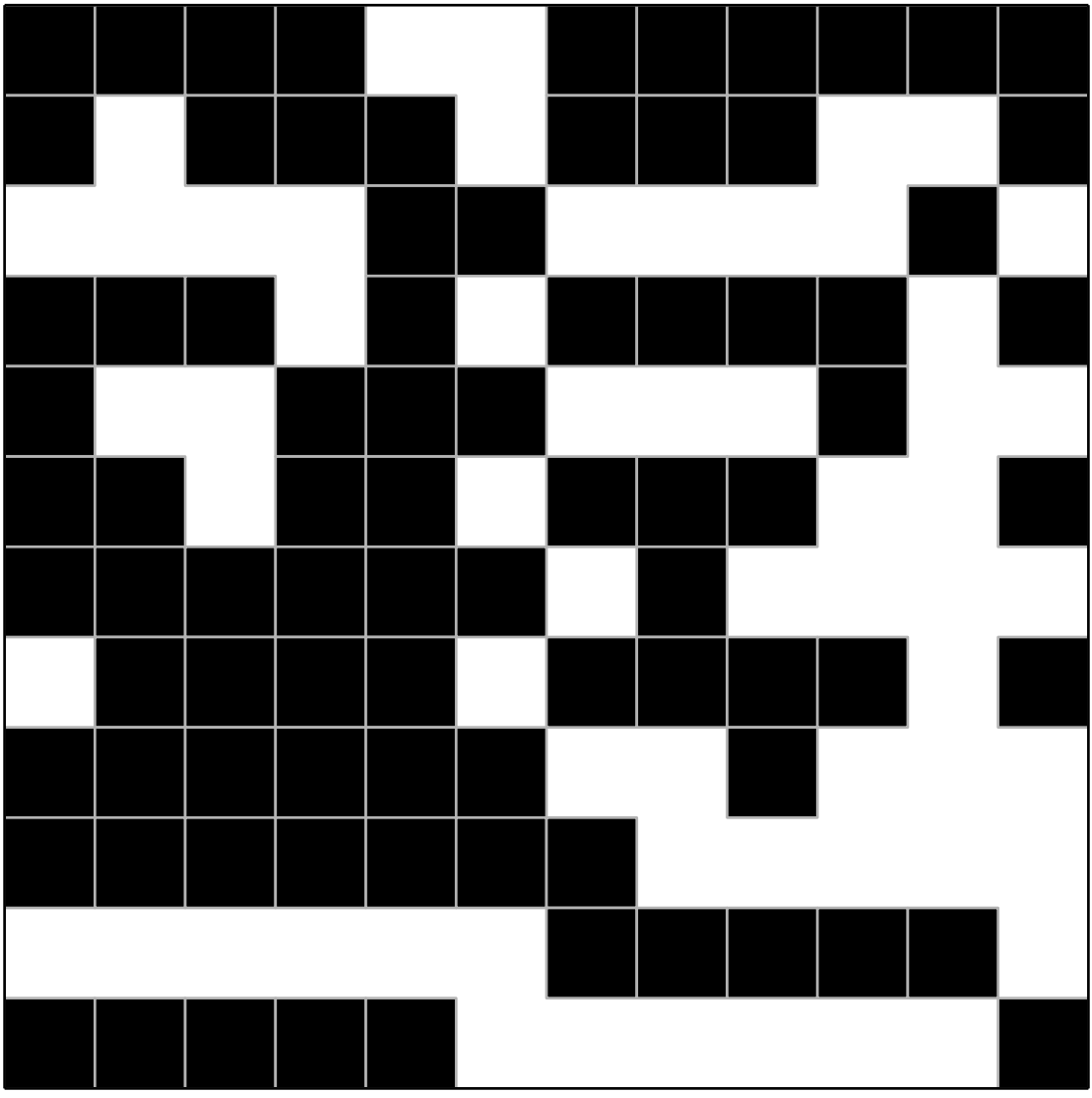
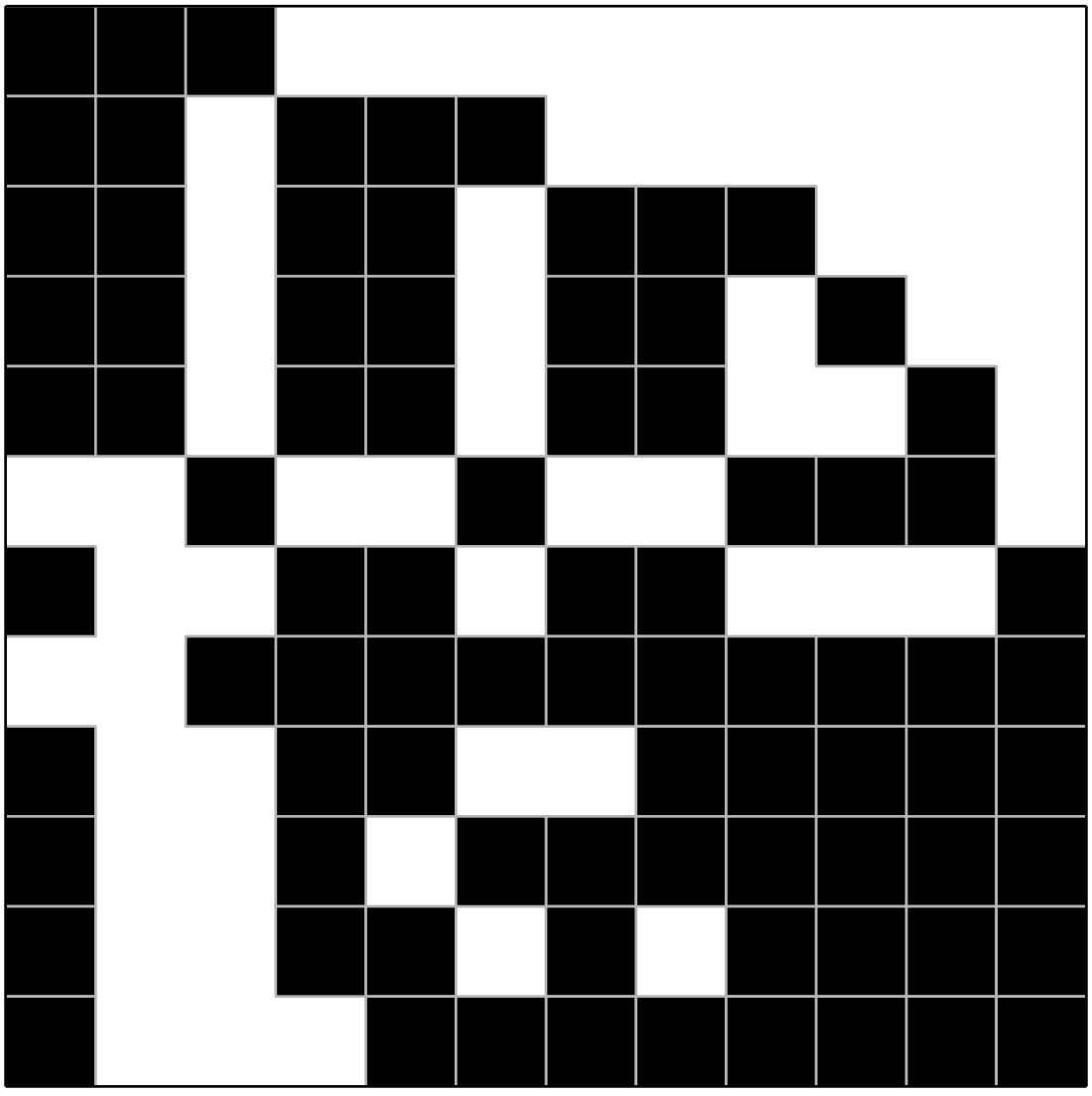
lib3_redeco6-06 12x12 (84) con: 6, var: 6

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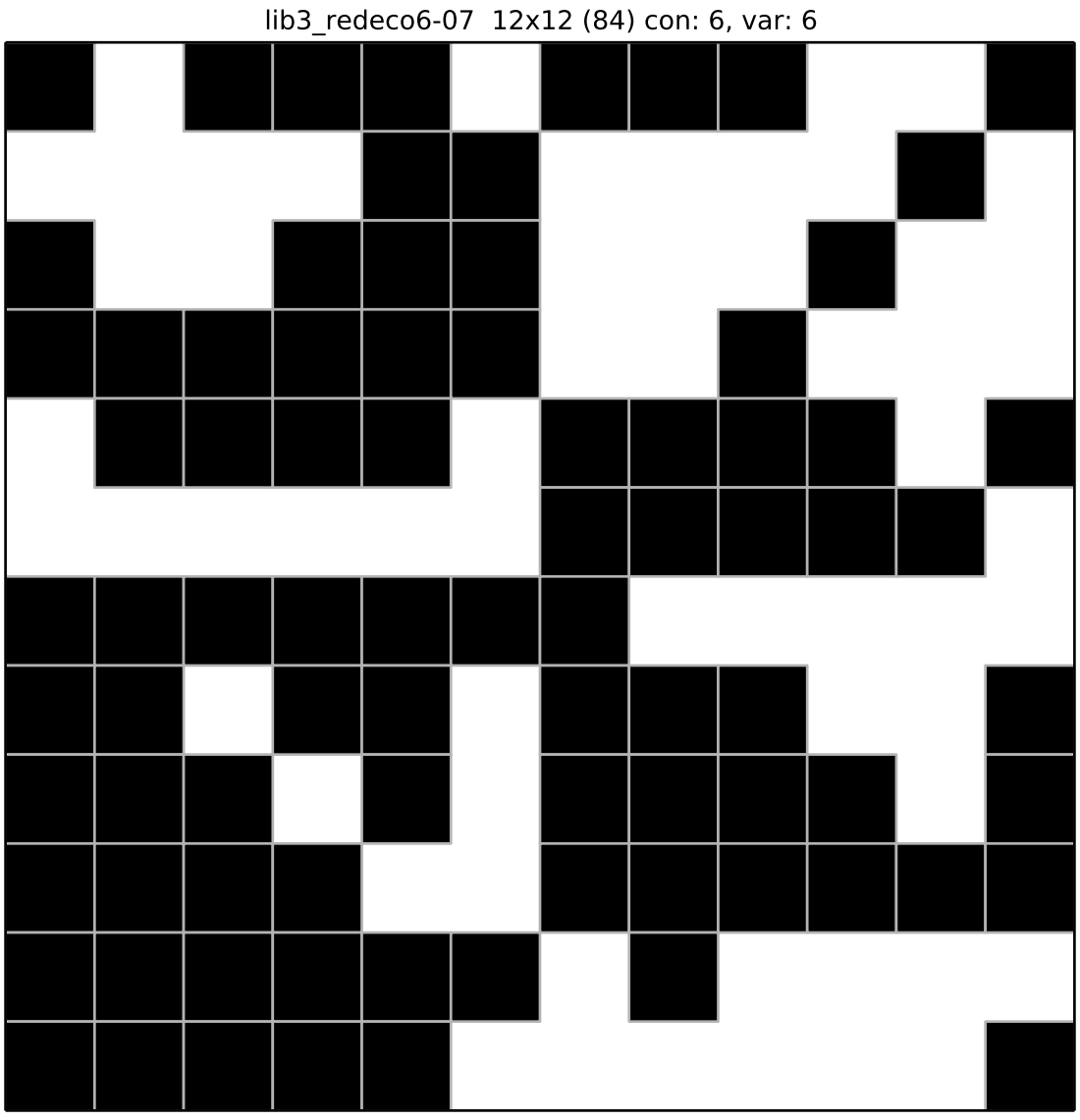
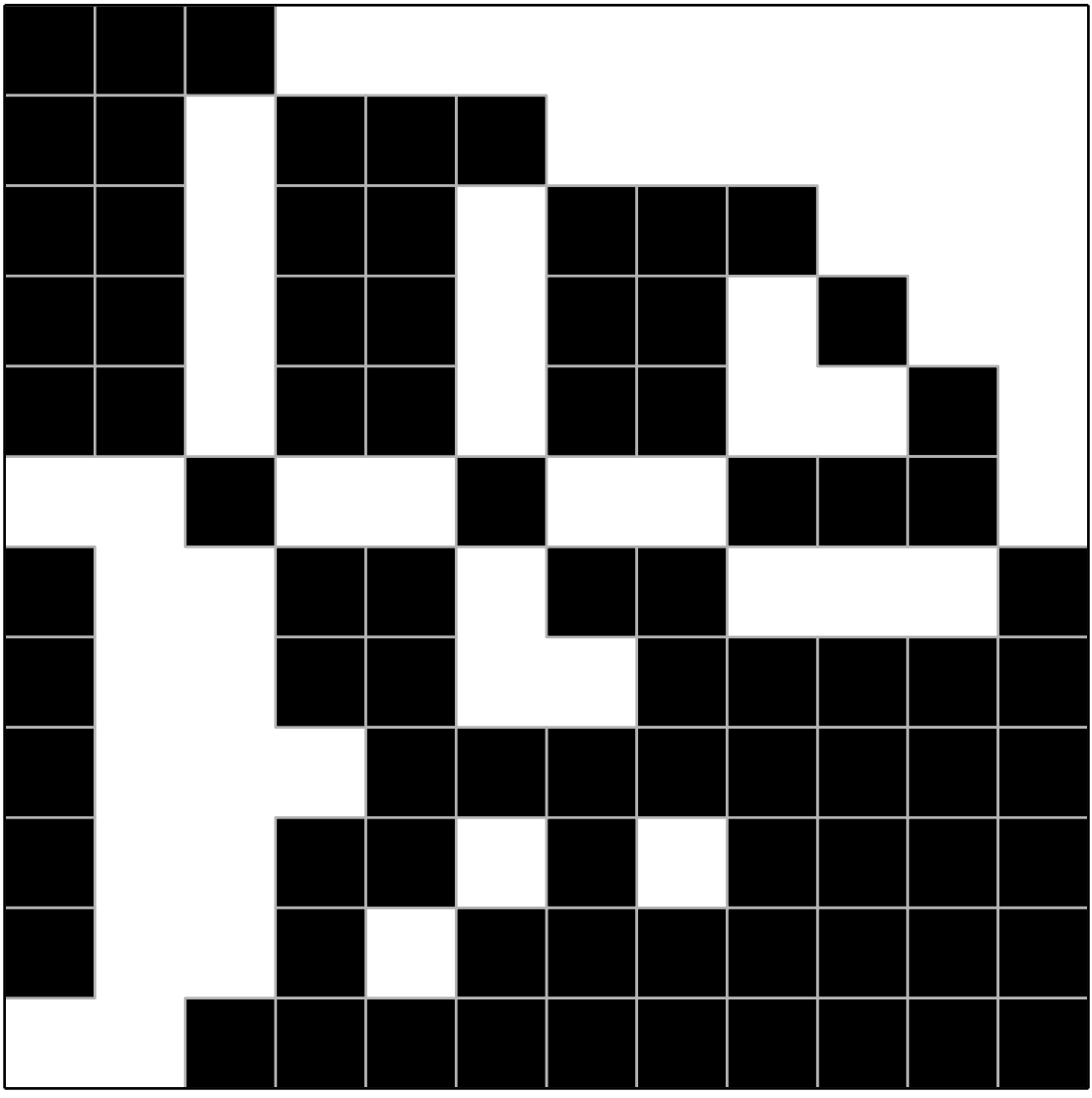

lib3_redeco6-07 12x12 (84) con: 6, var: 6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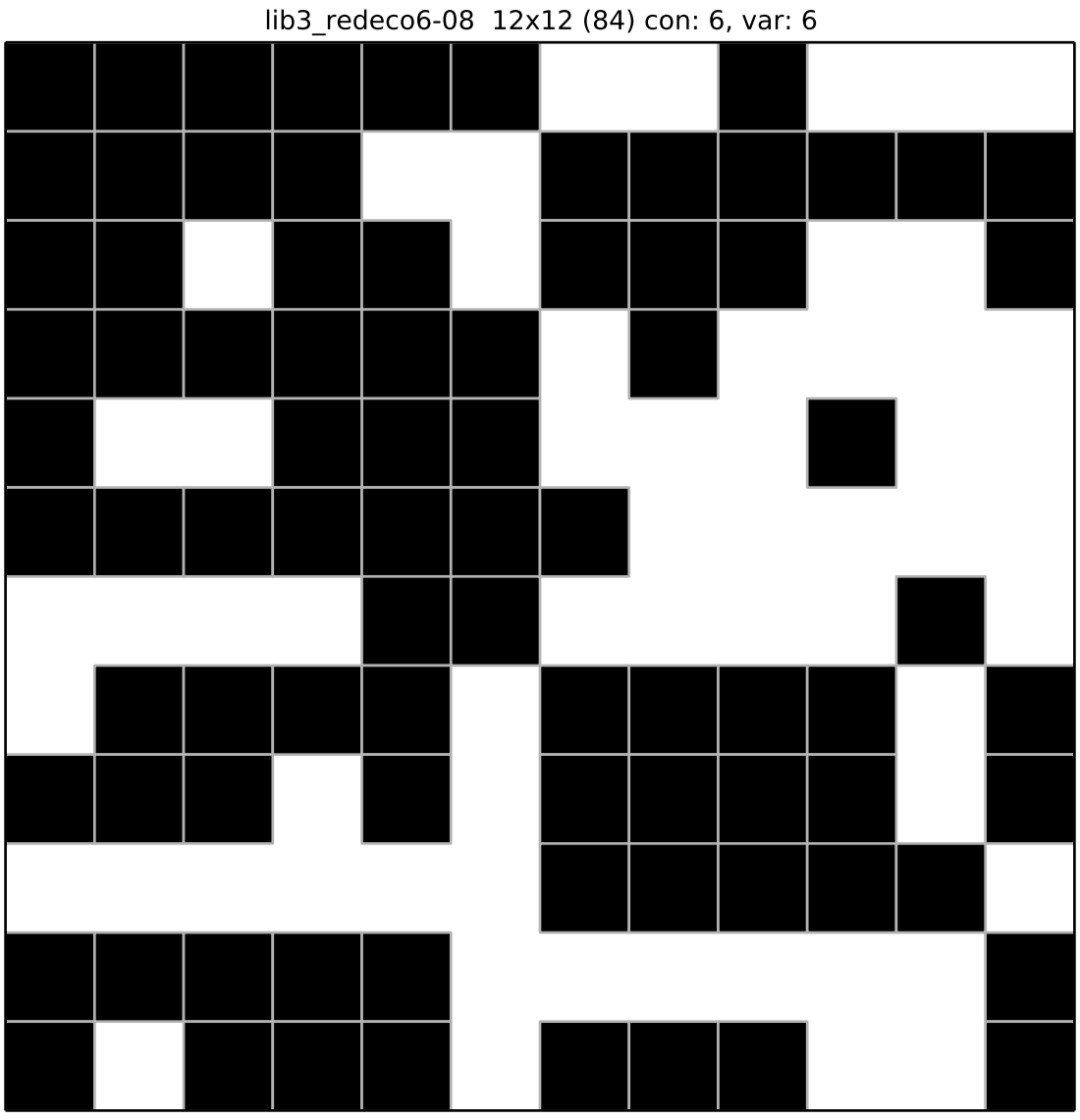
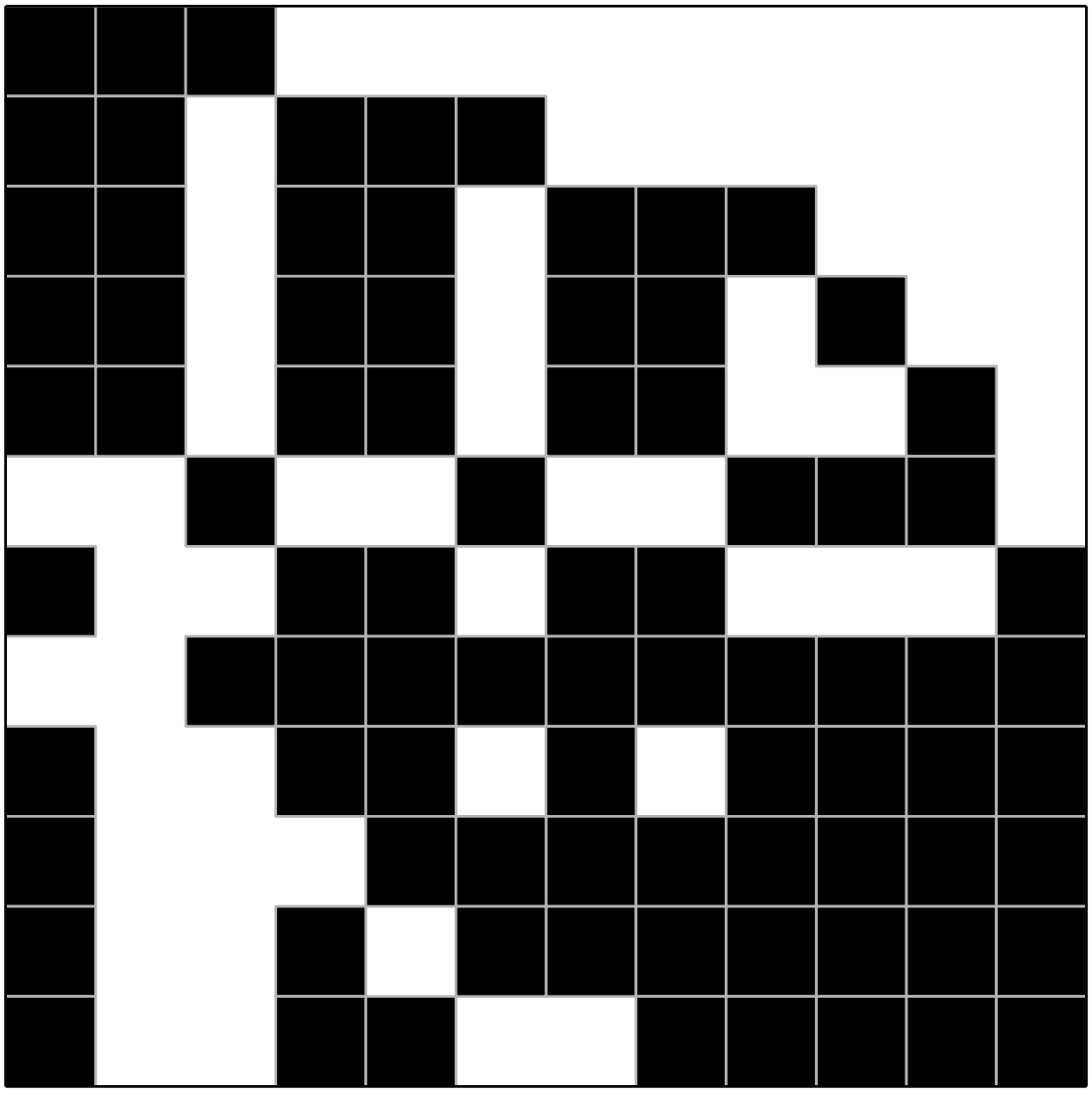

lib3_redeco6-08 12x12 (84) con: 6, var: 6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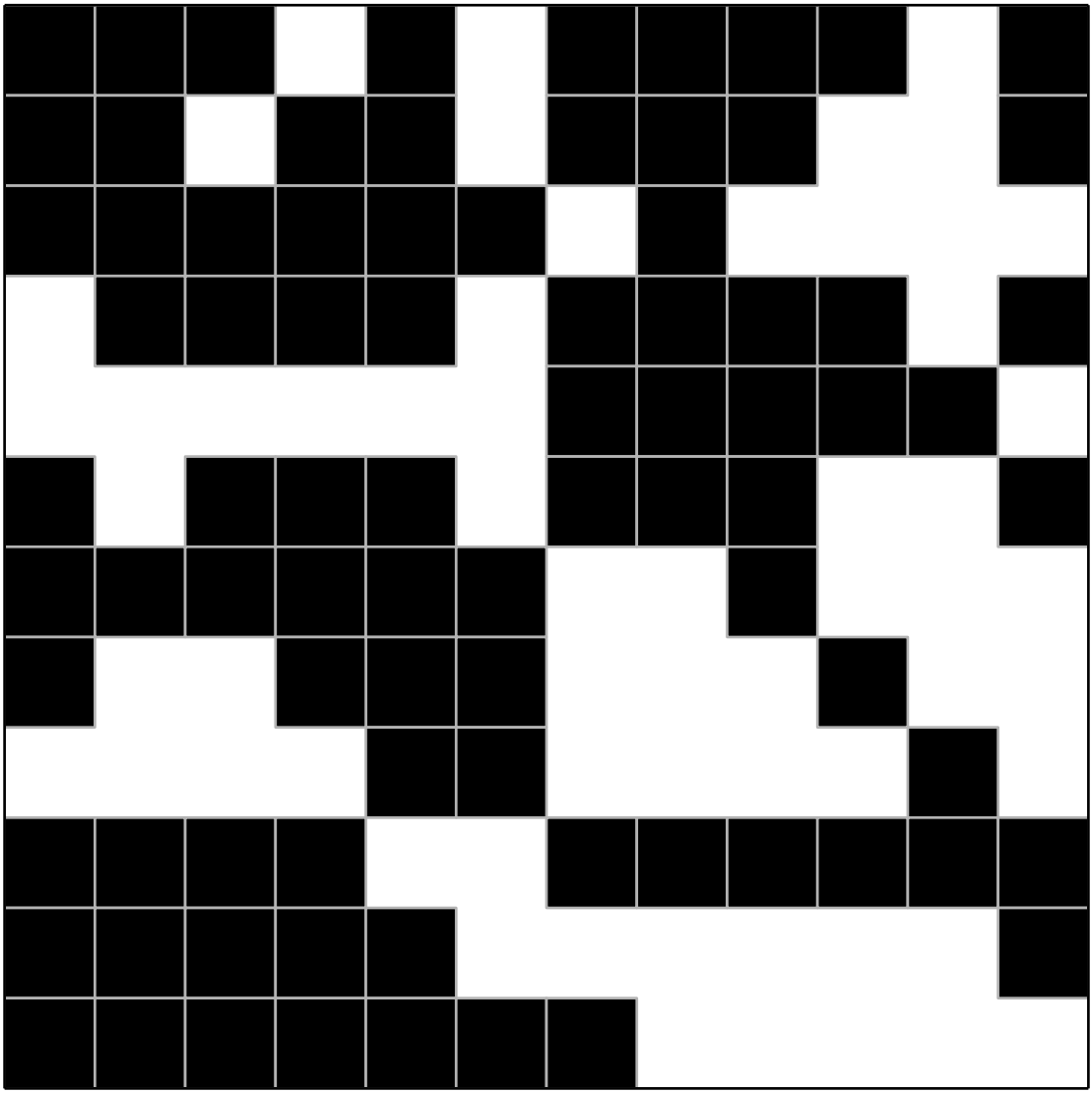
lib3_redeco6-09 12x12 (84) con: 6, var: 6



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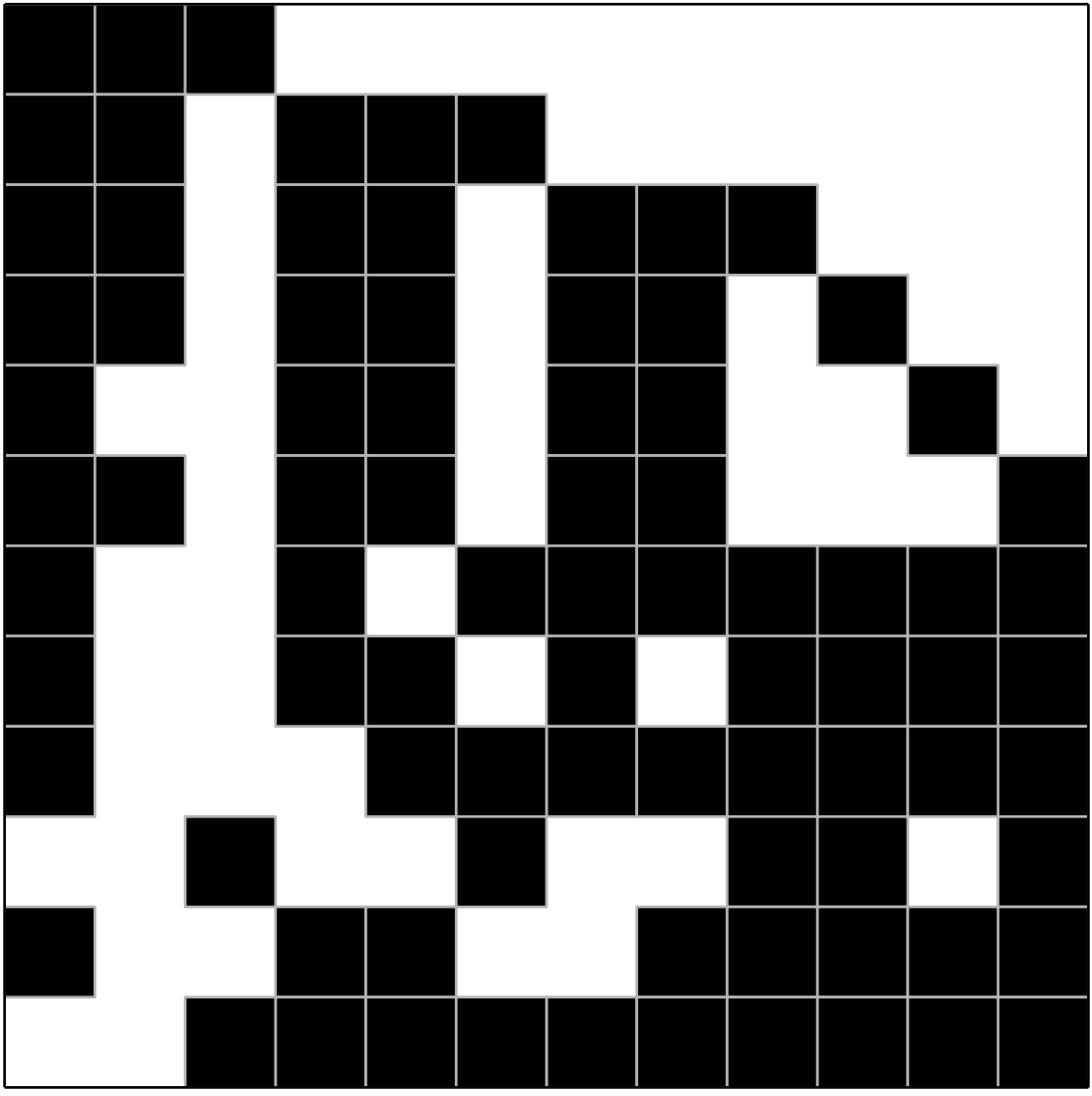

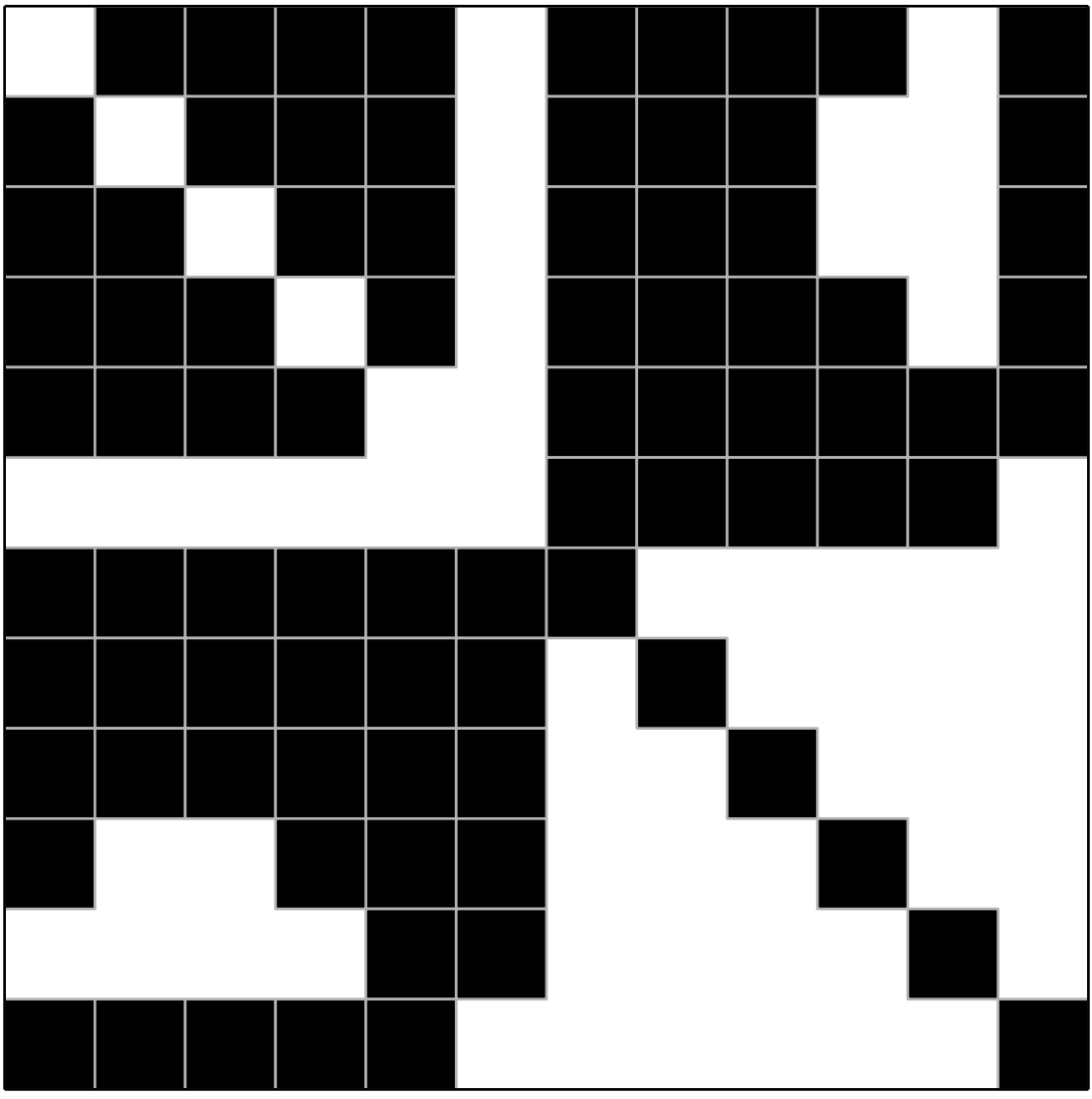
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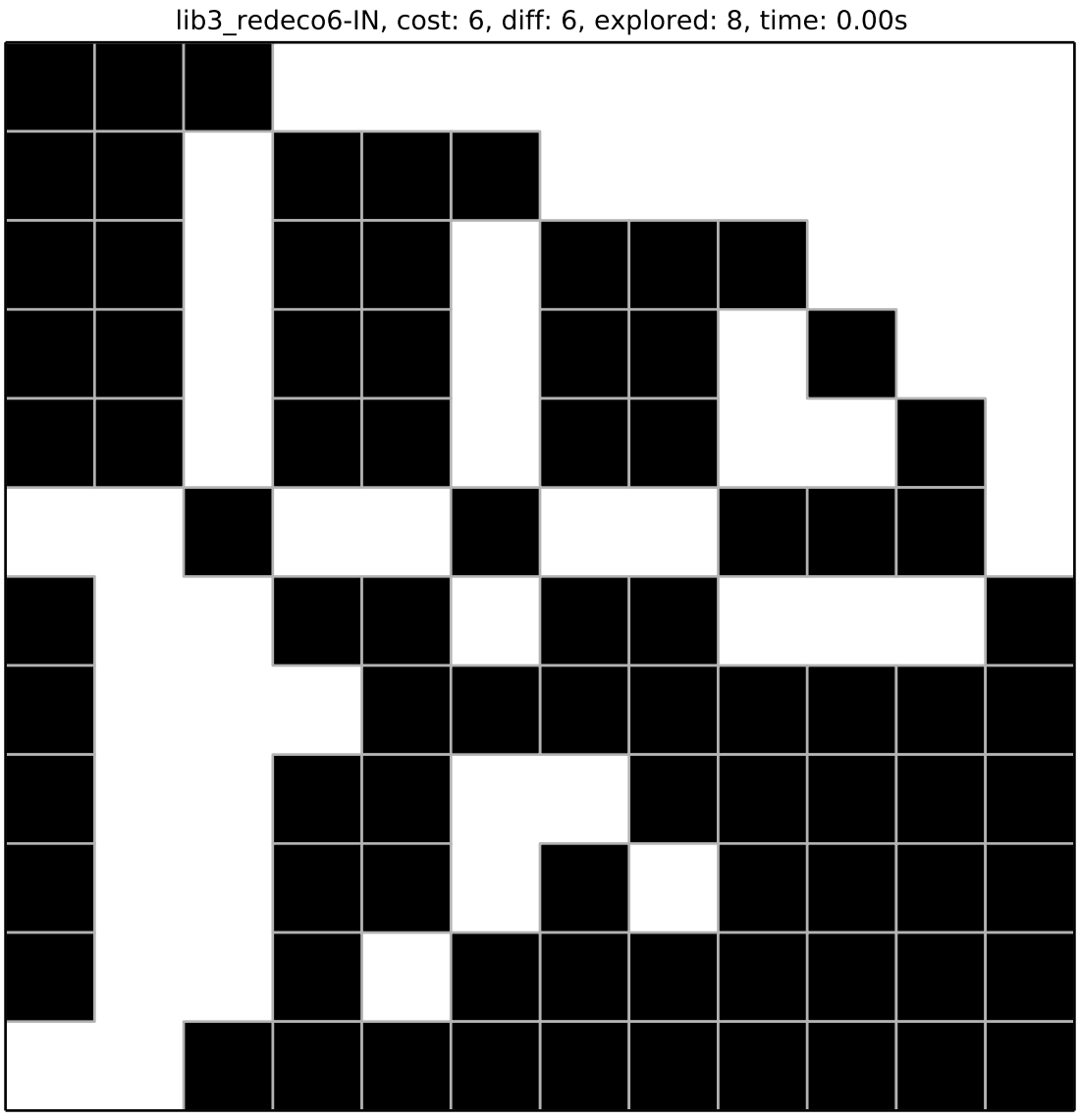
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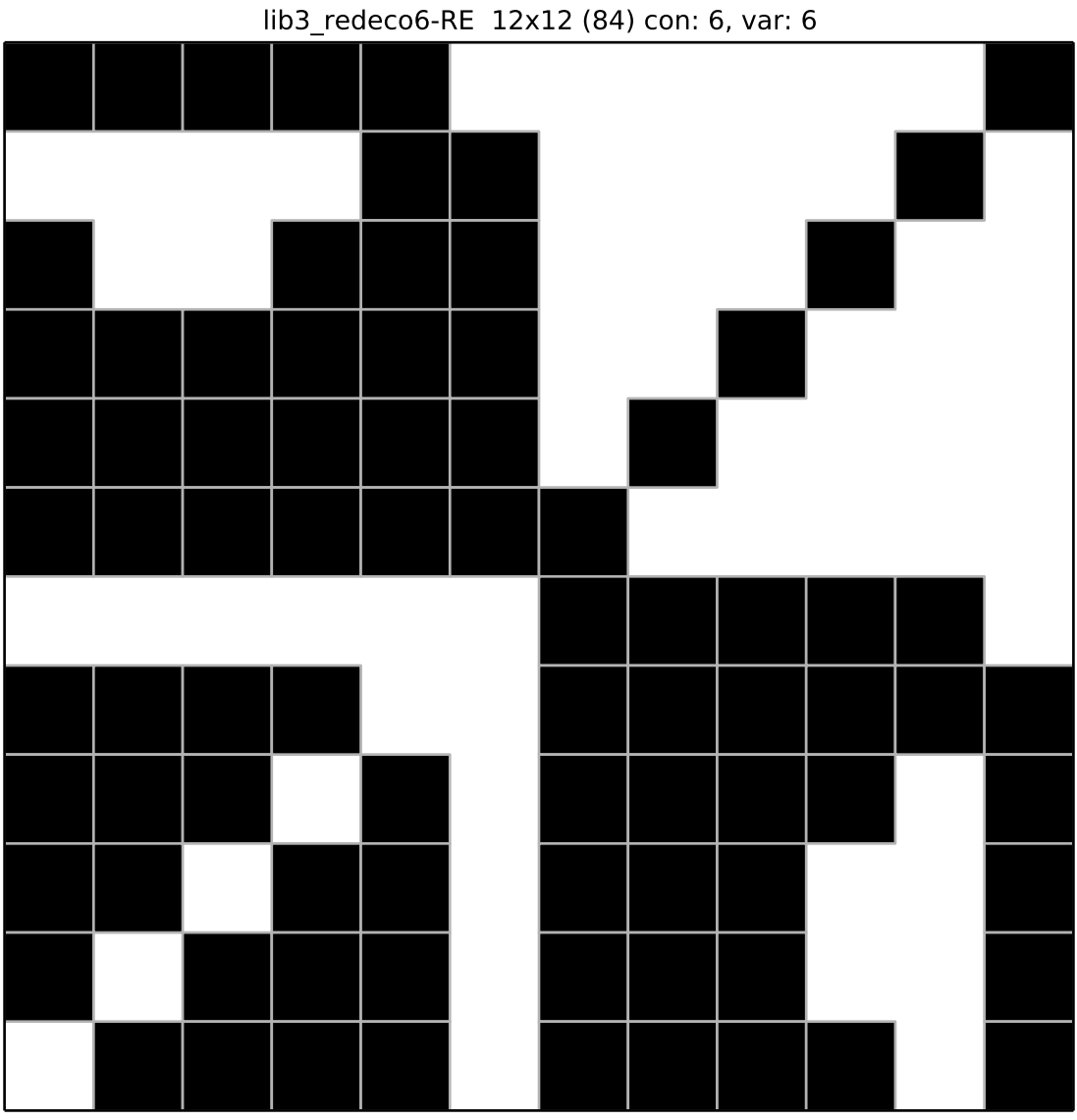
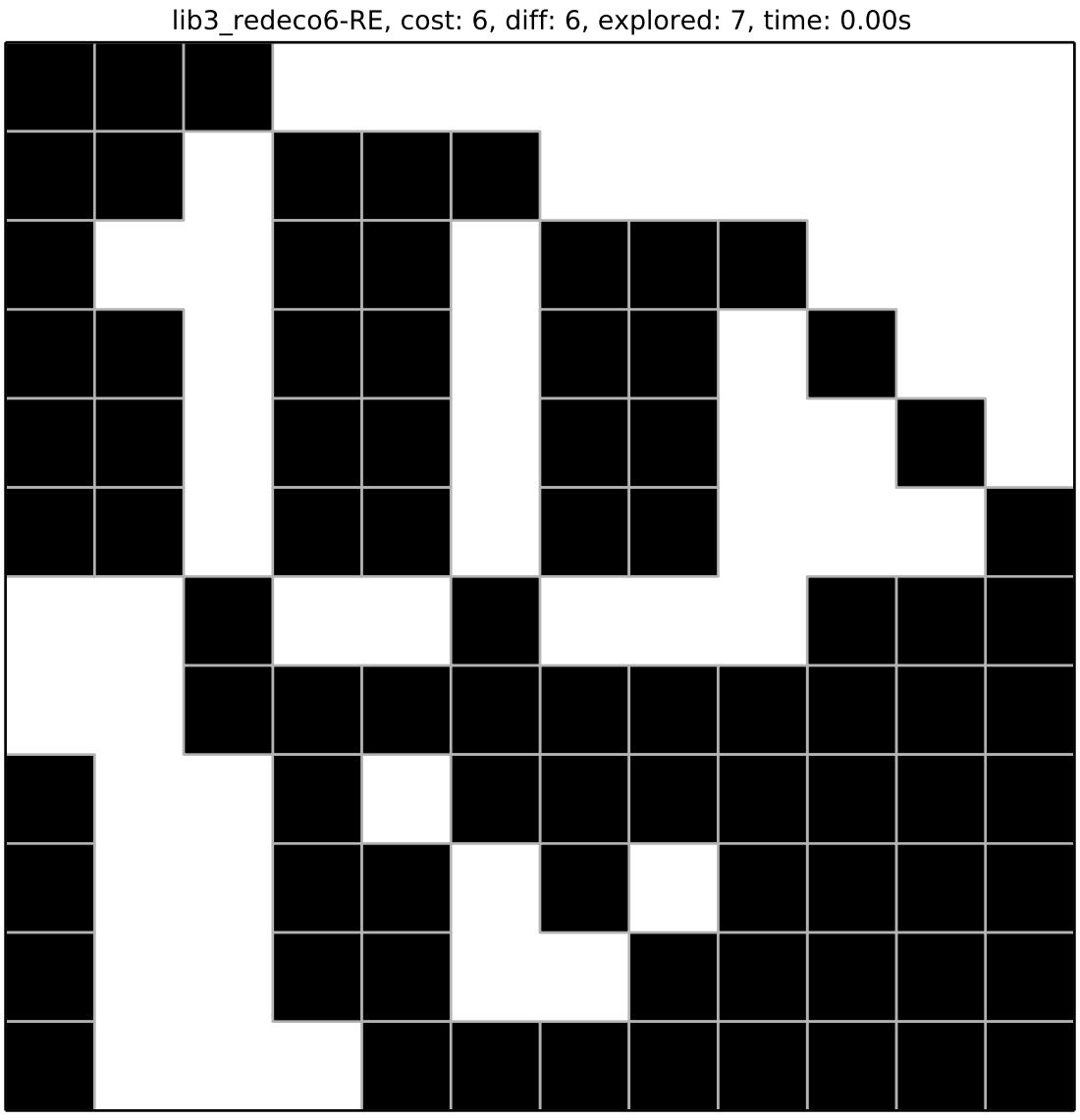

lib3_redeco6-RE 12x12 (84) con: 6, var: 6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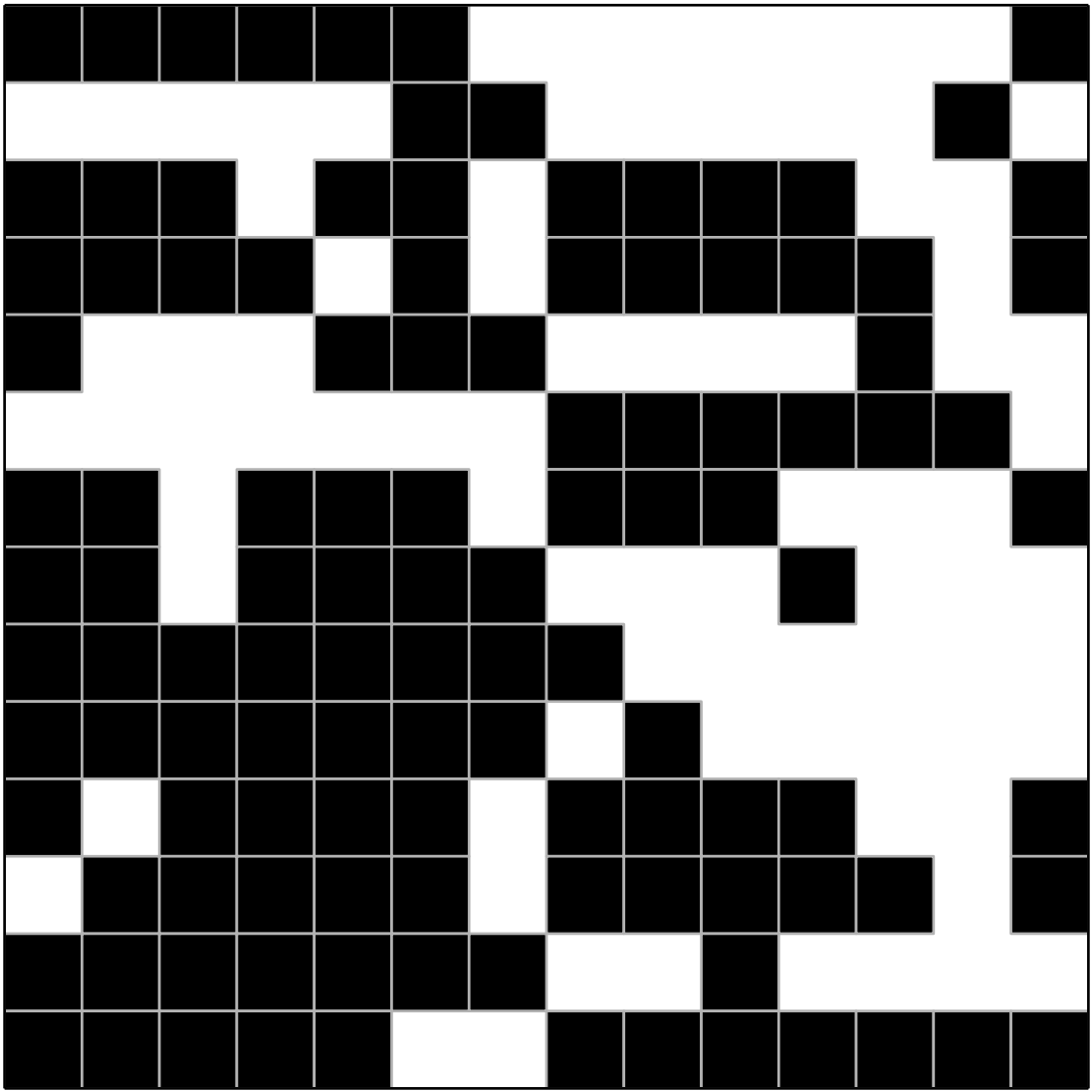
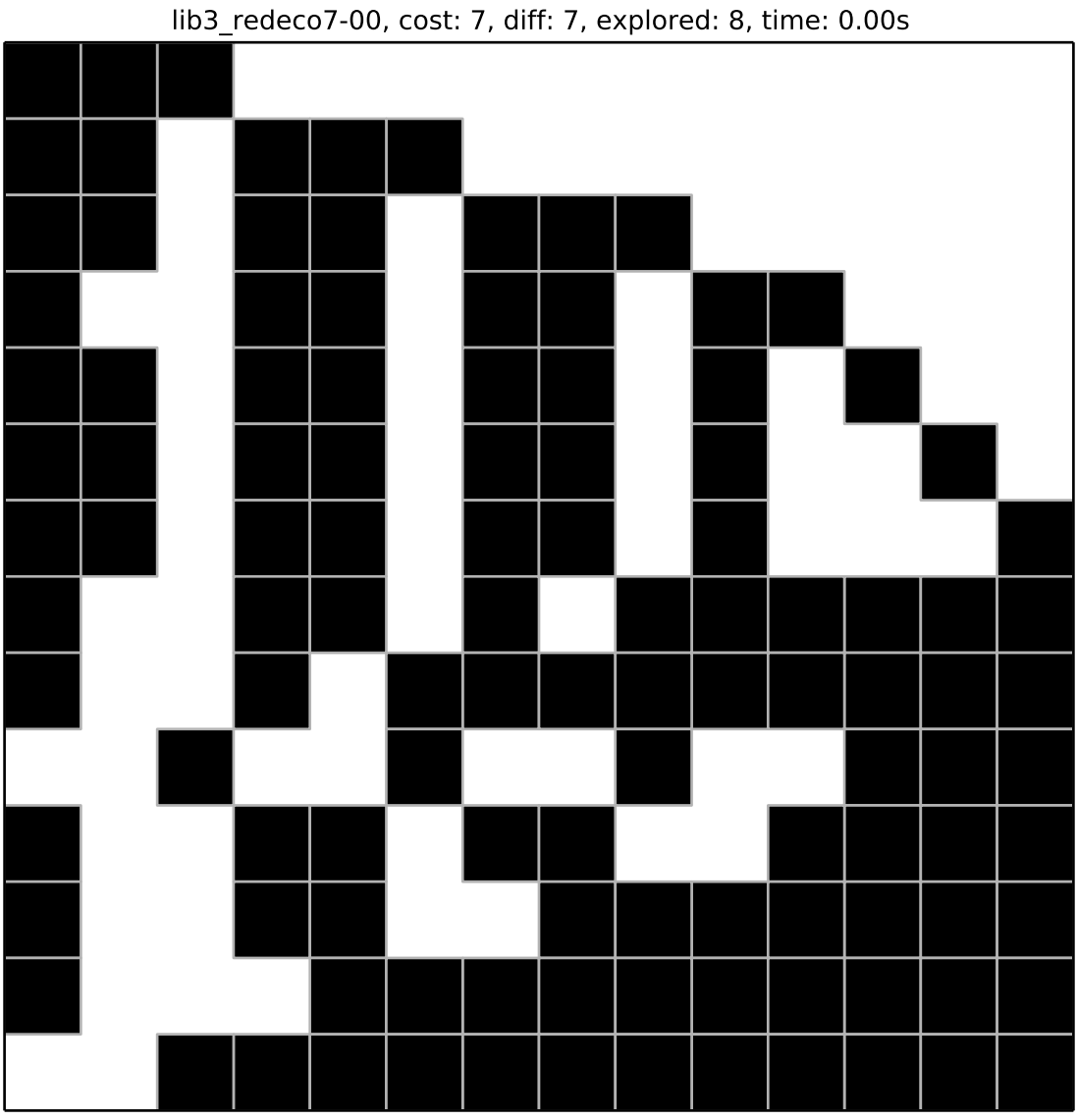
lib3_redeco7-00 14x14 (115) con: 7, var: 7

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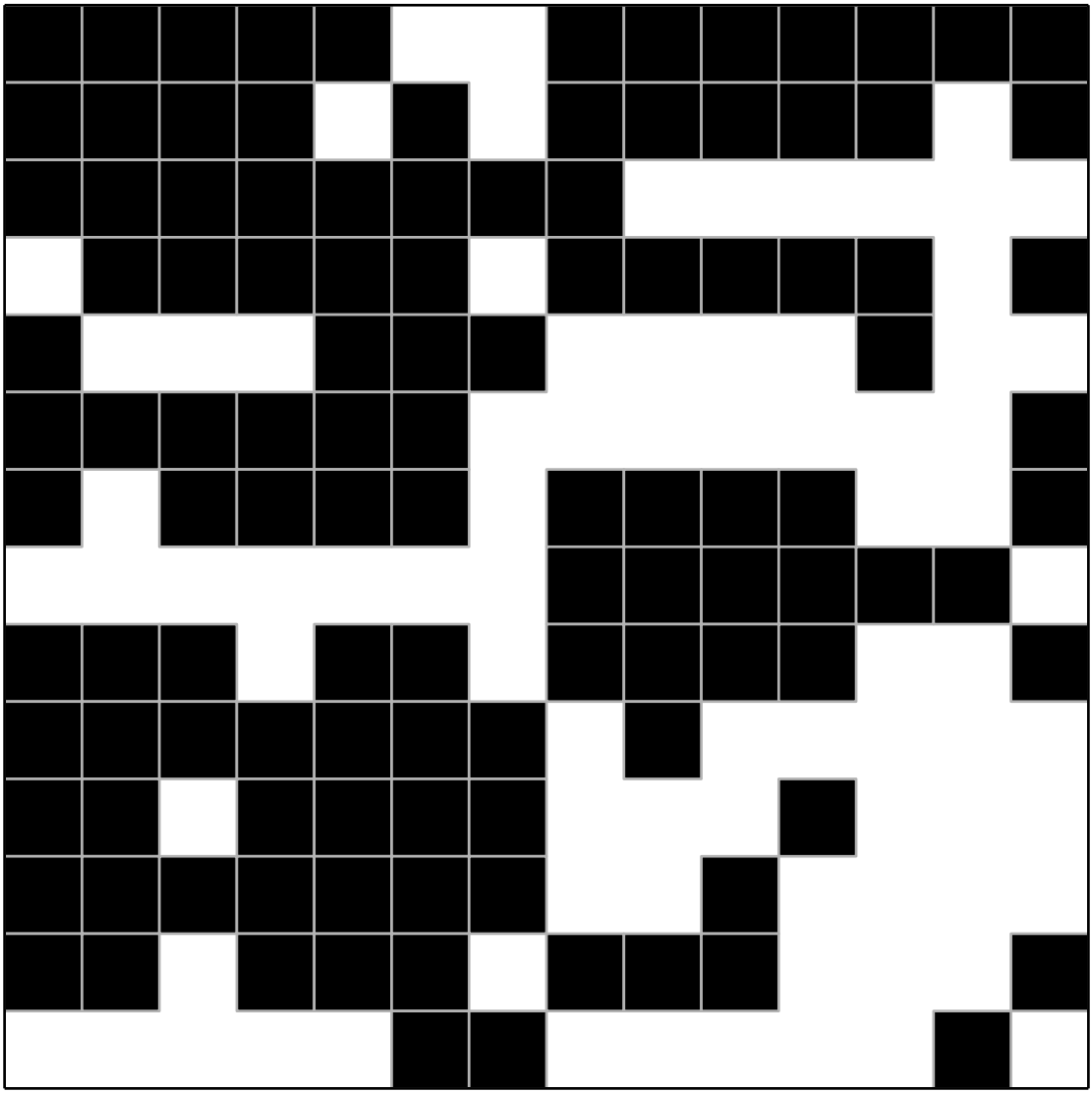
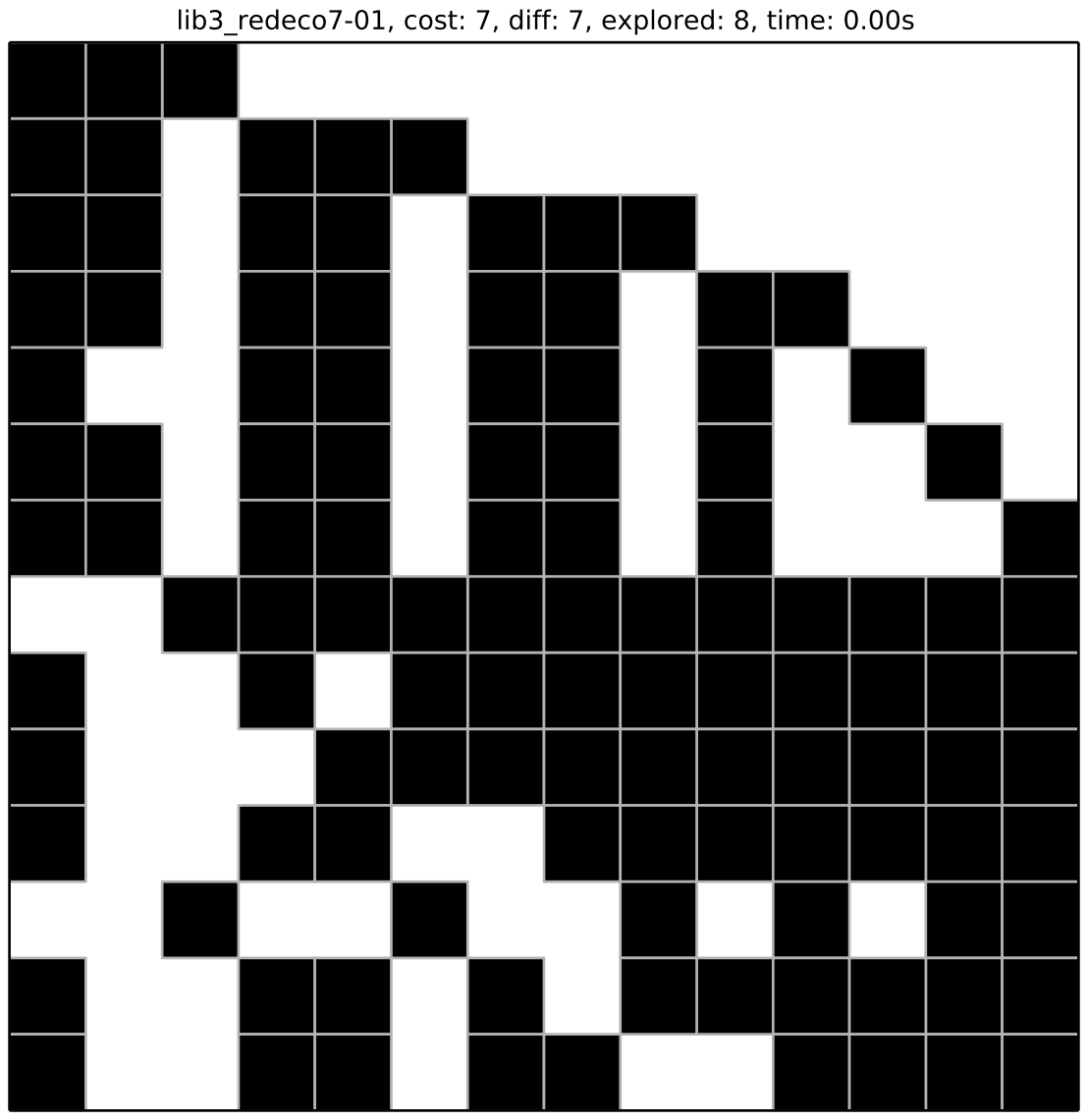
lib3_redeco7-01 14x14 (115) con: 7, var: 7

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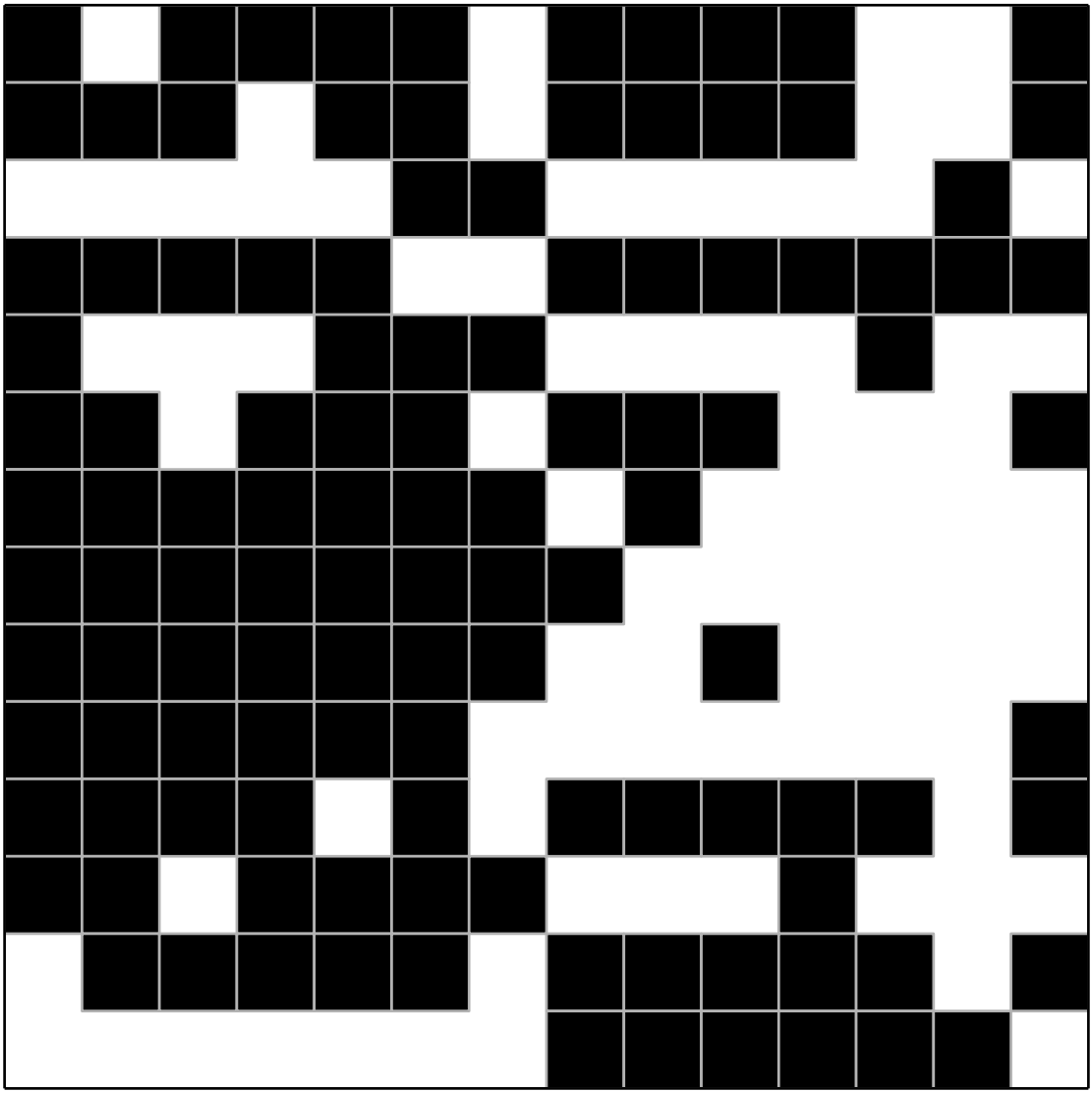
lib3_redeco7-02 14x14 (115) con: 7, var: 7



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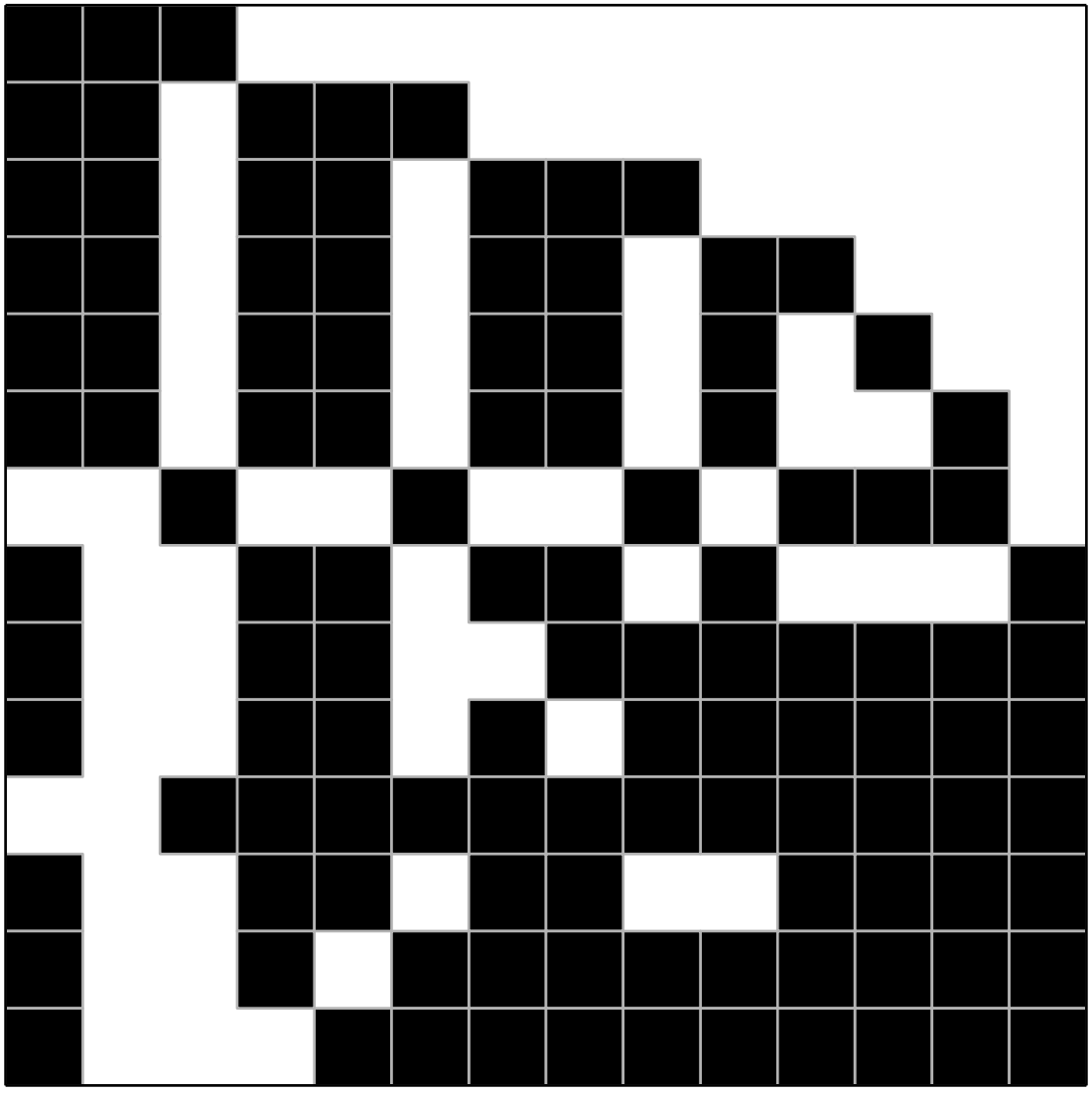
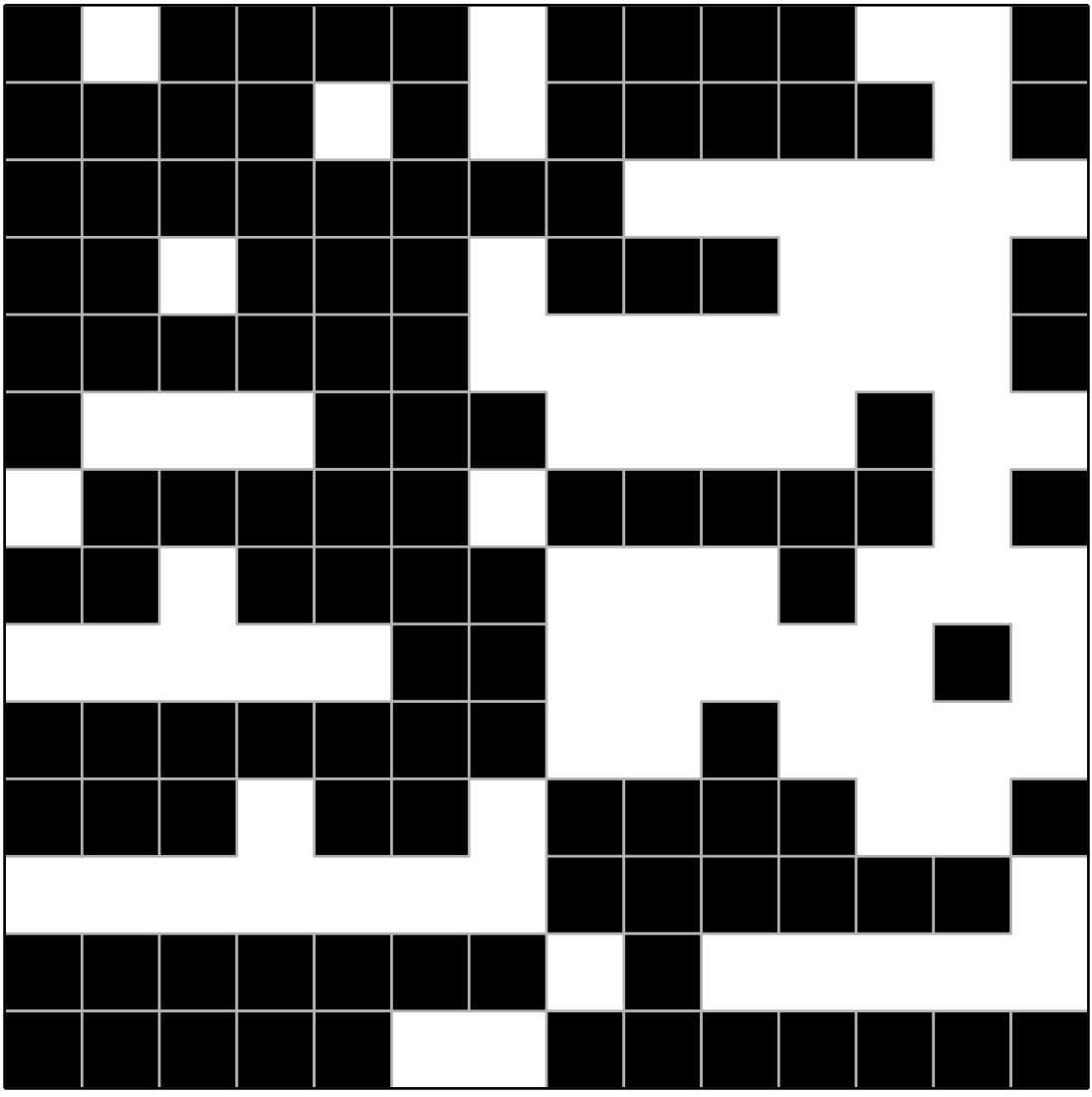
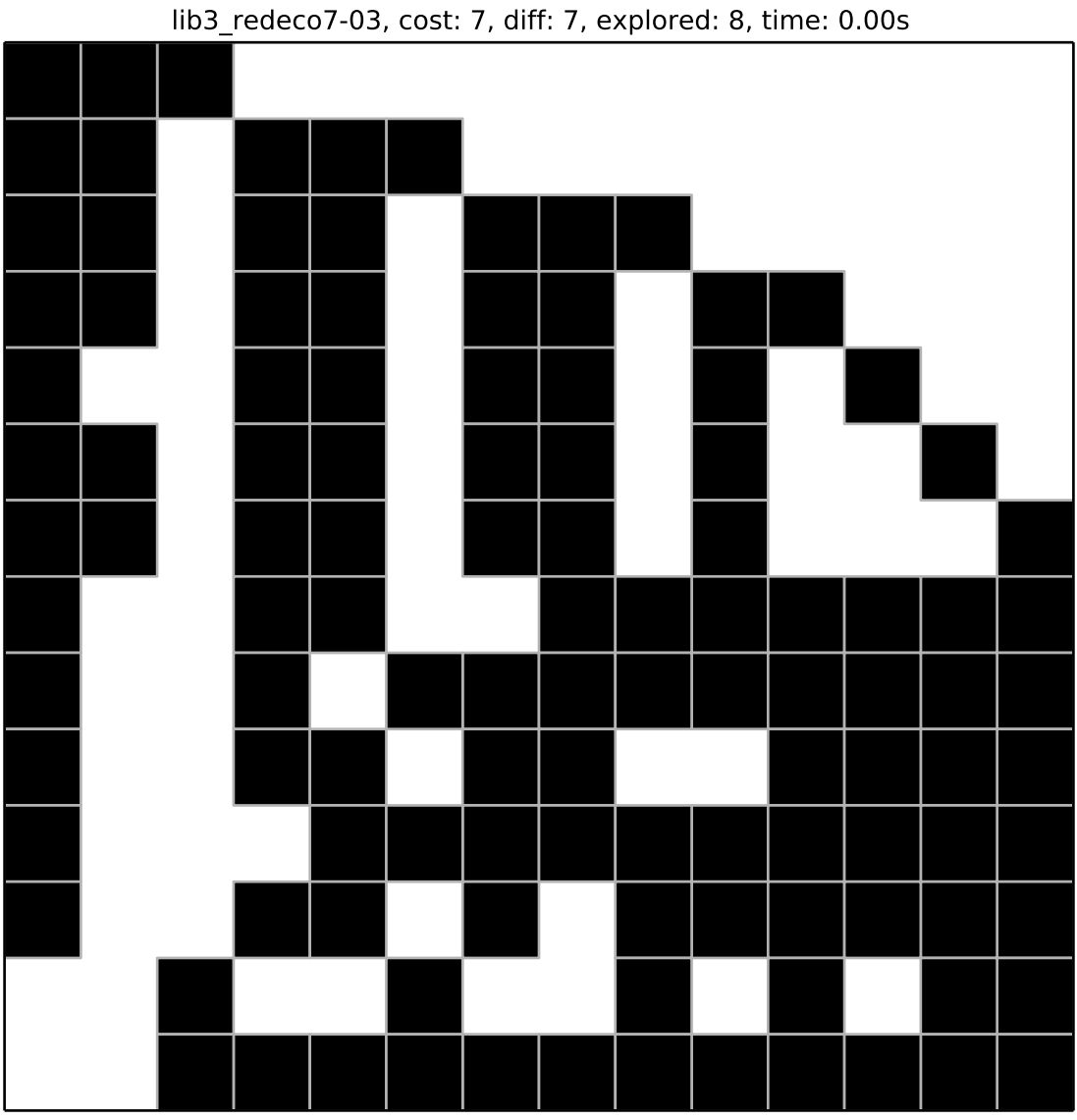


lib3_redeco7-03 14x14 (115) con: 7, var: 7

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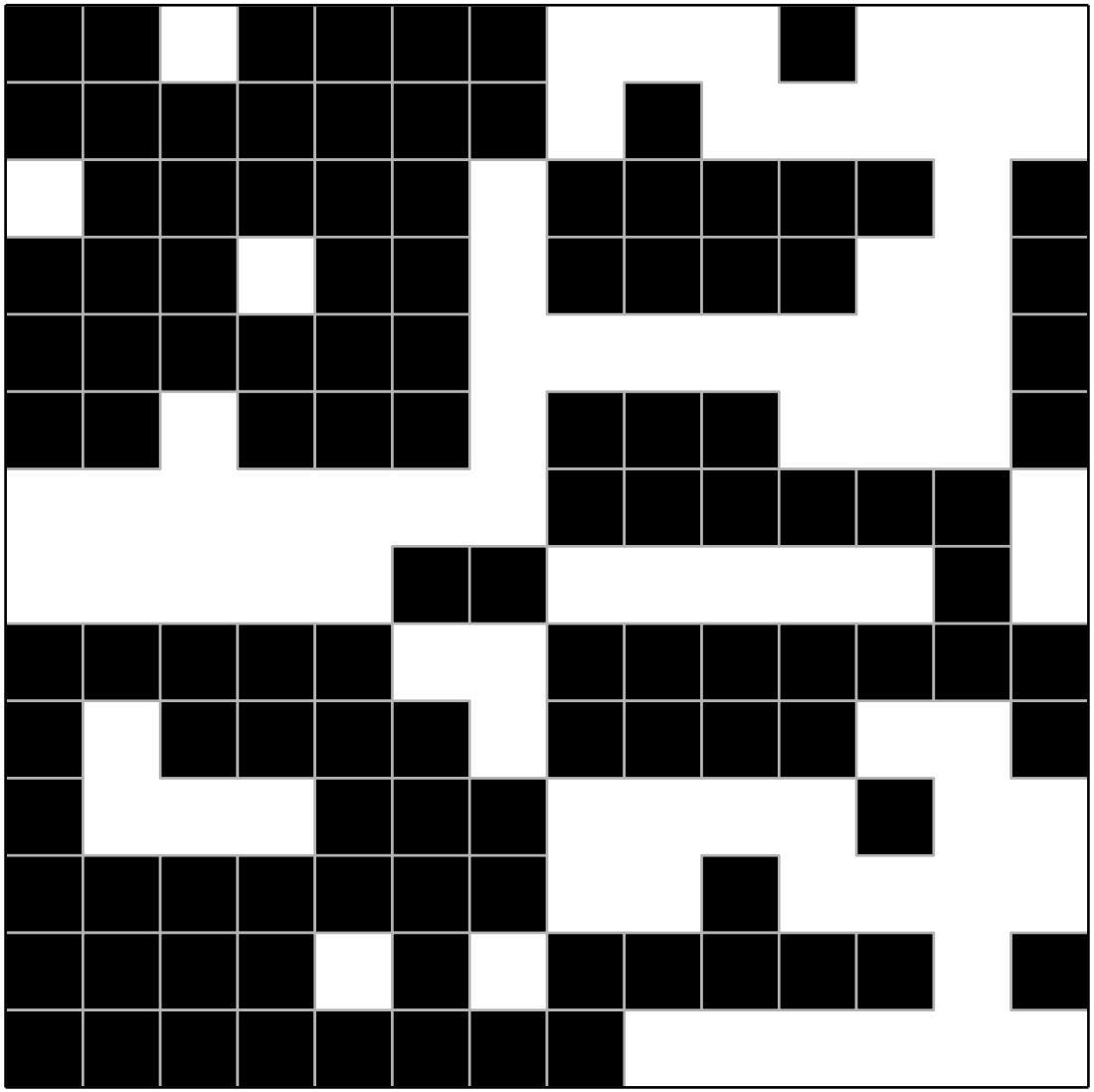
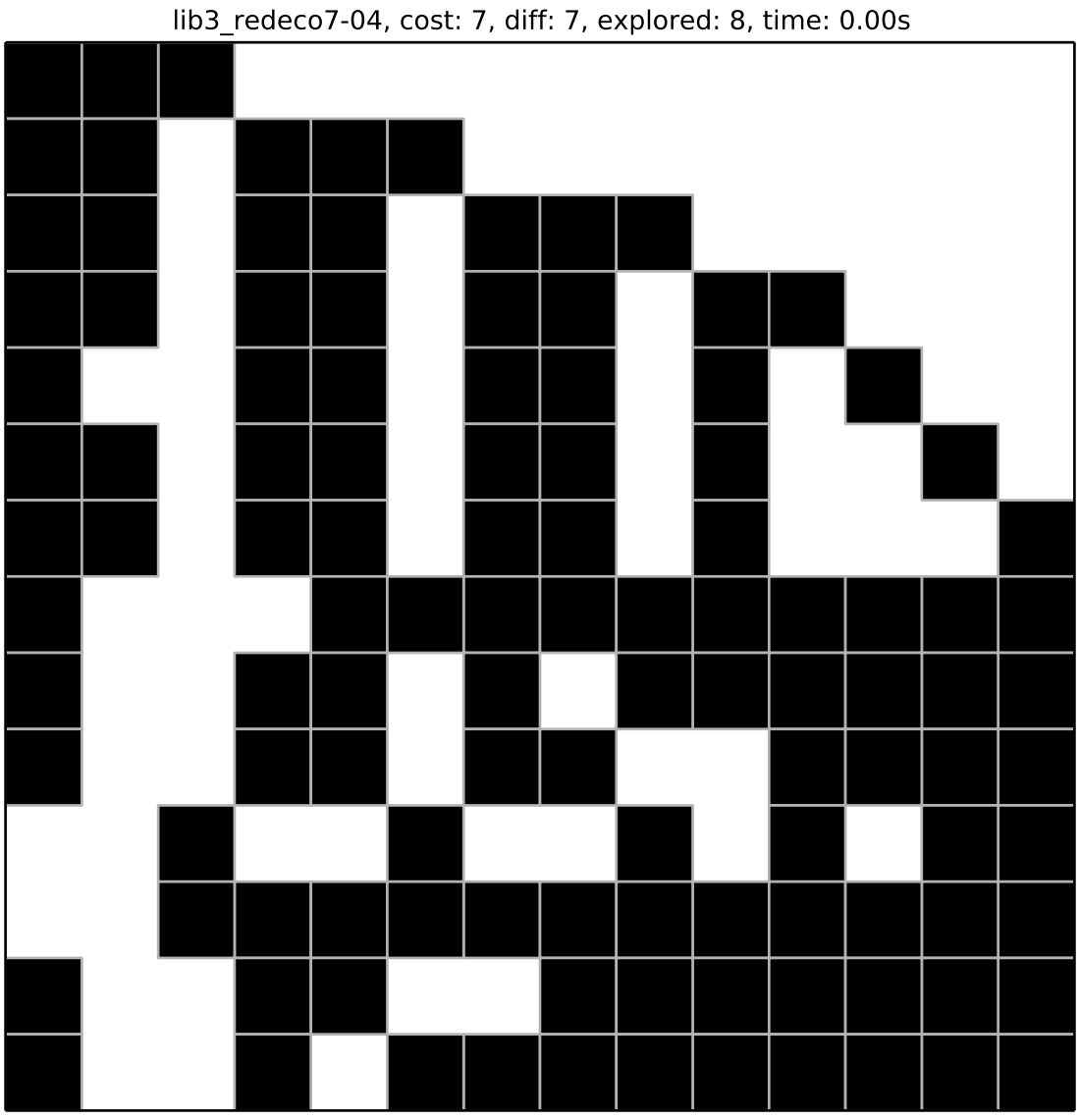
lib3_redeco7-04 14x14 (115) con: 7, var: 7

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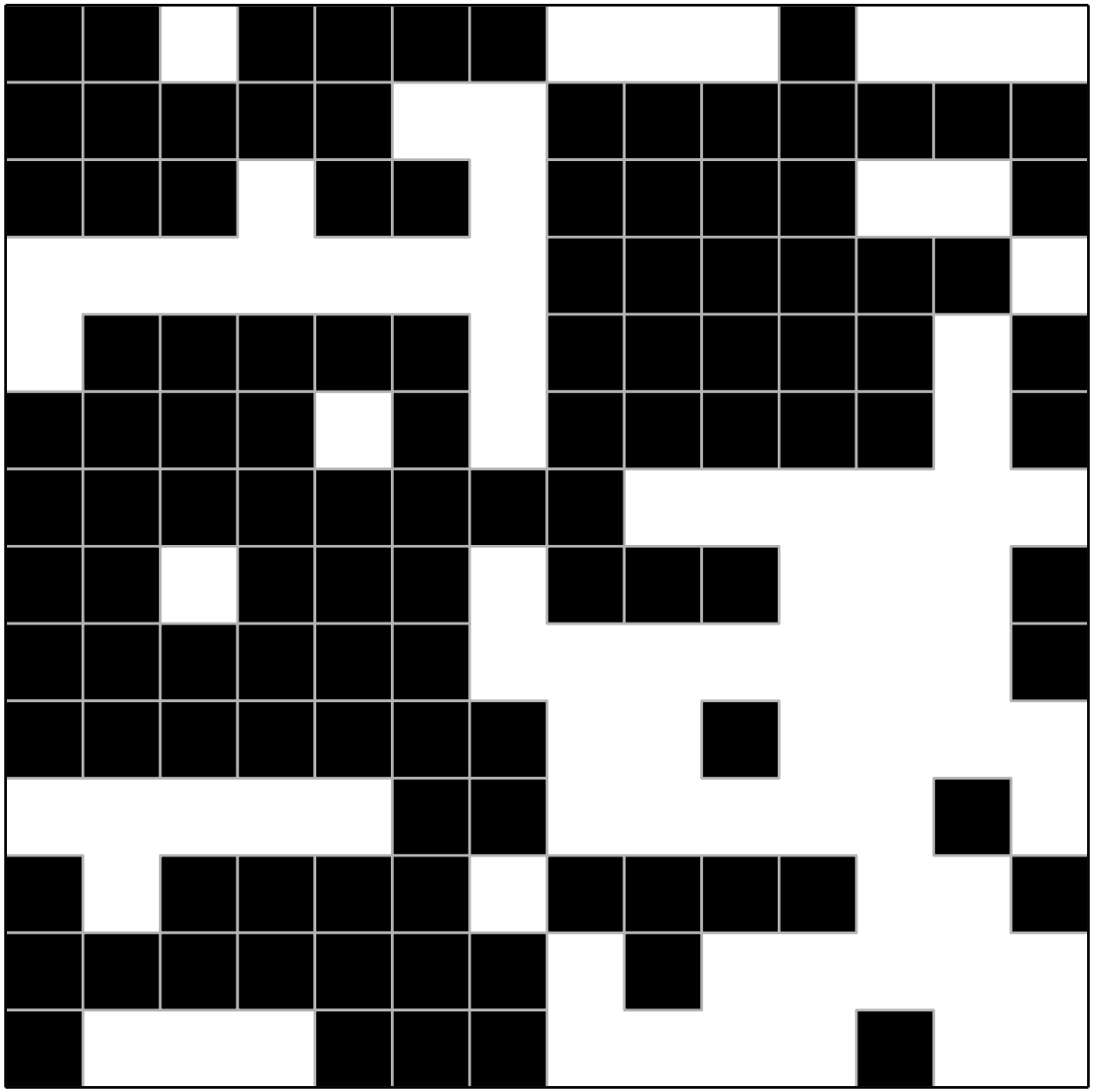
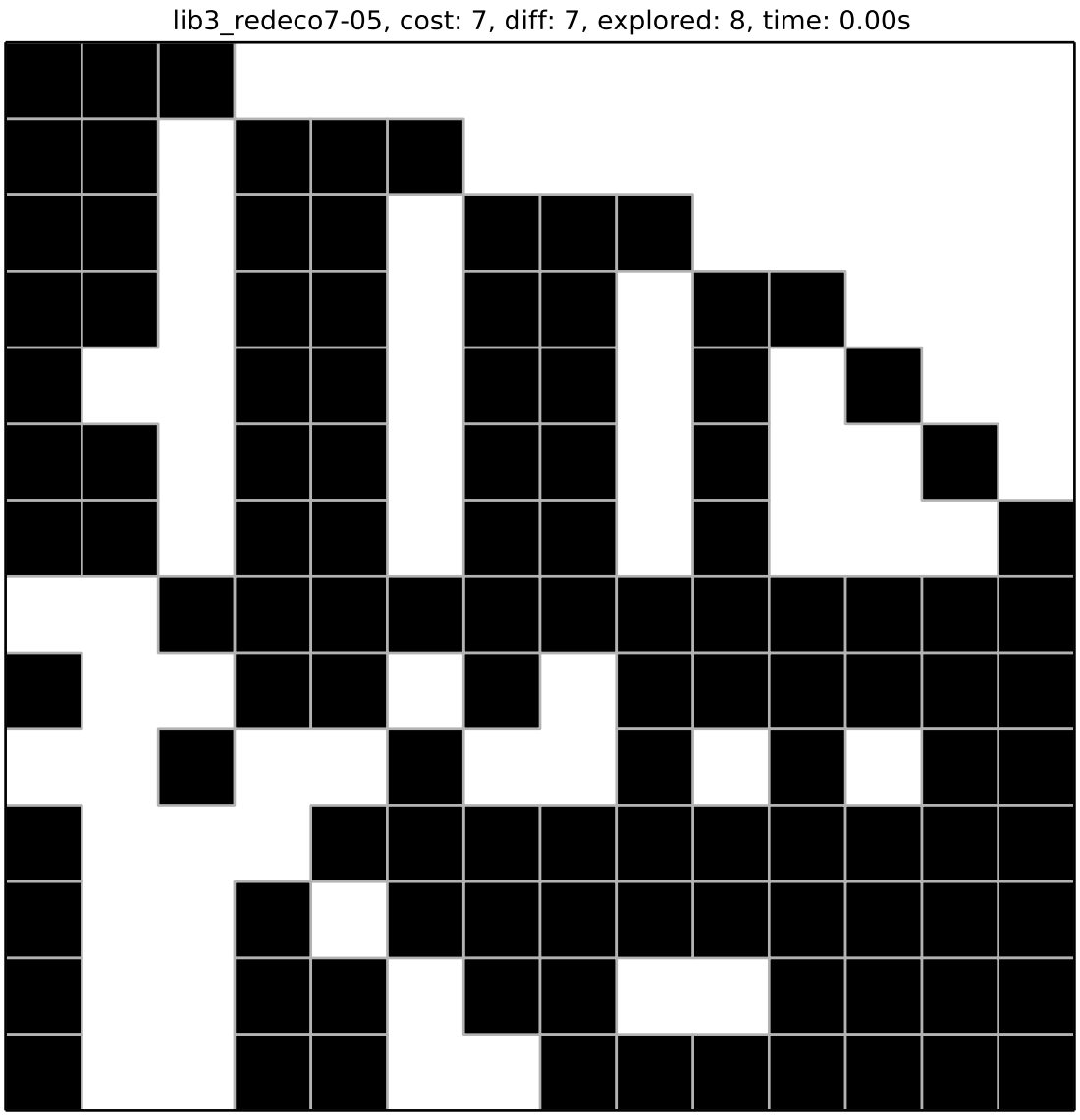
lib3_redeco7-05 14x14 (115) con: 7, var: 7

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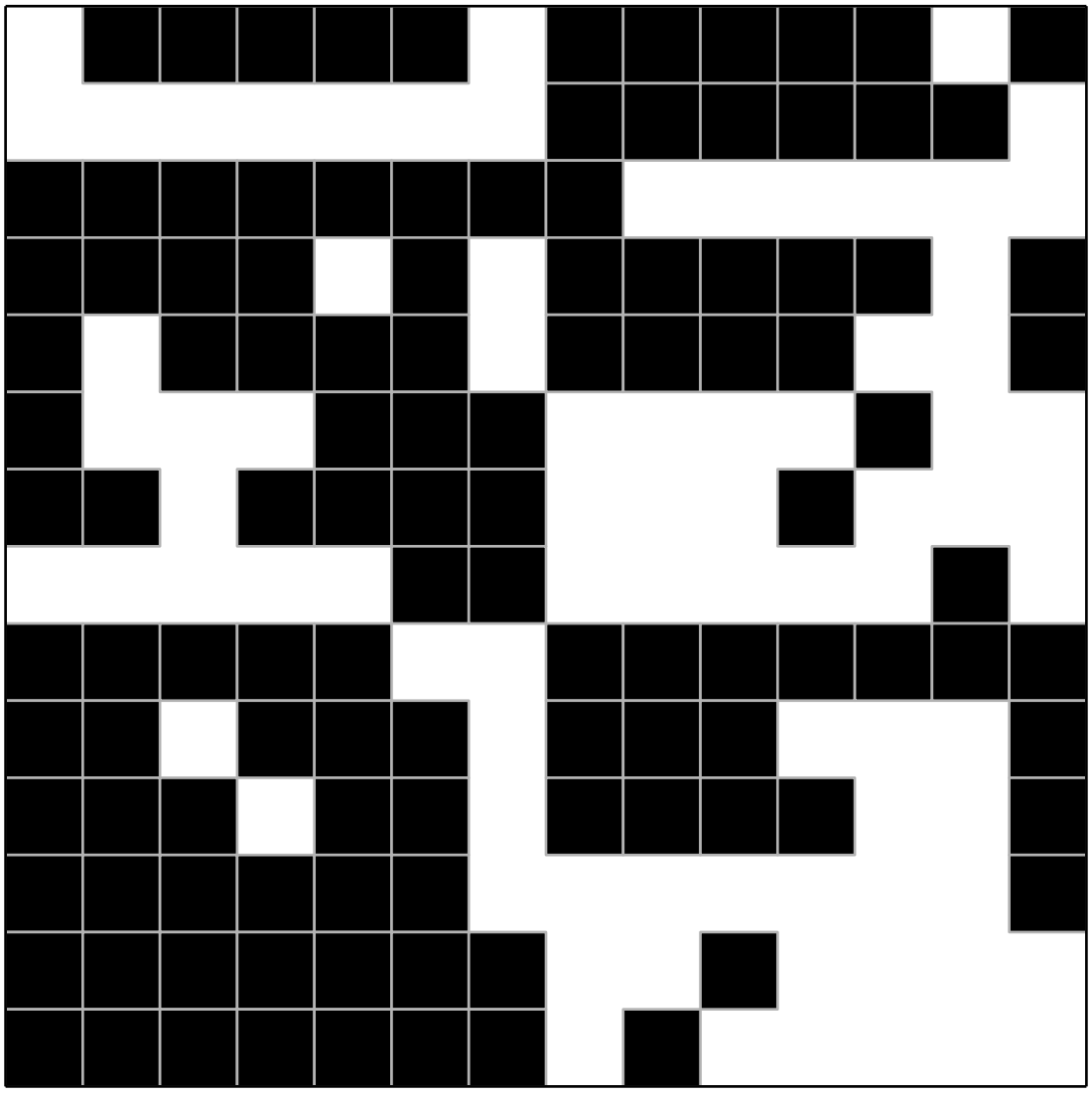
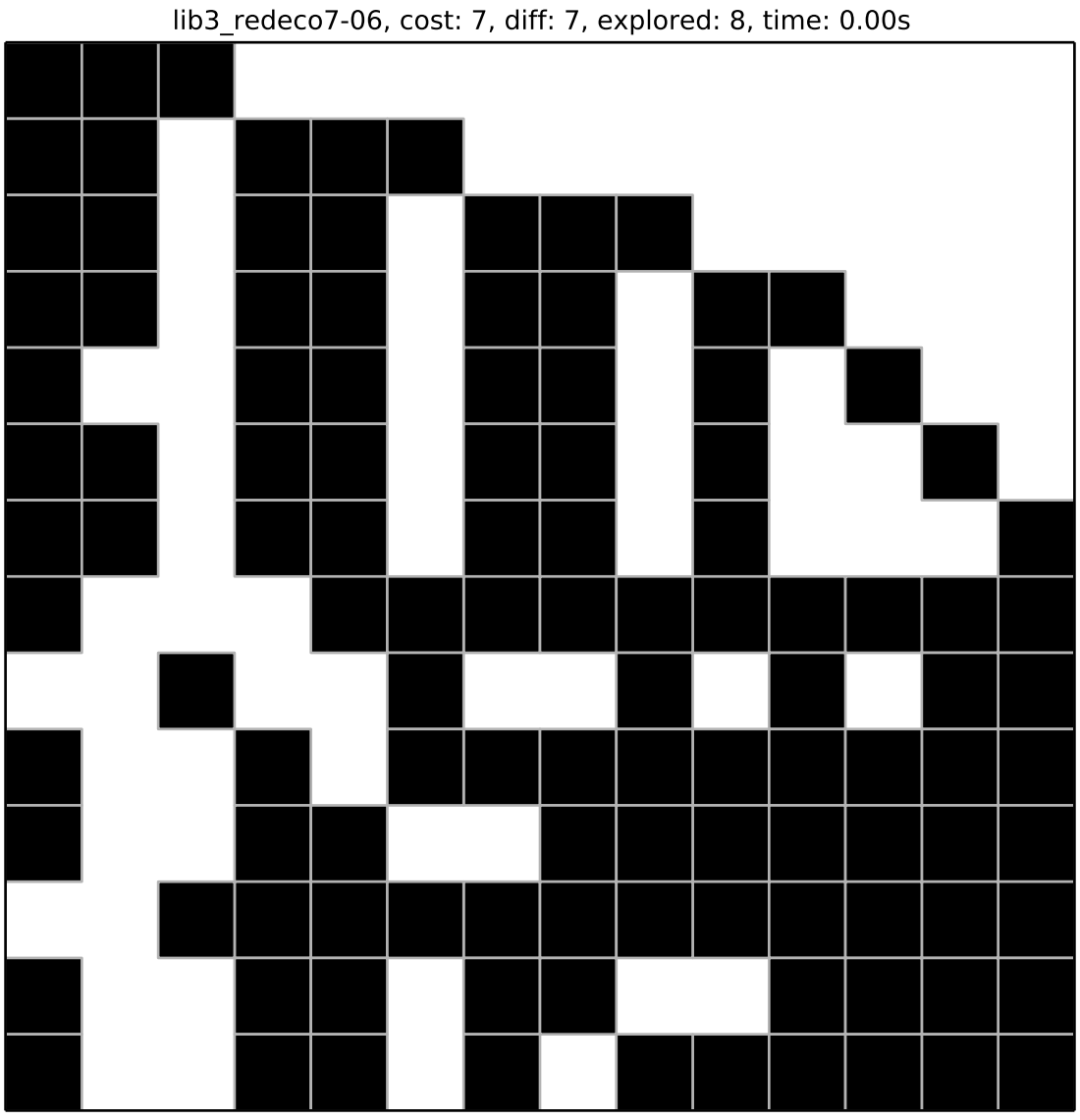

lib3_redeco7-06 14x14 (115) con: 7, var: 7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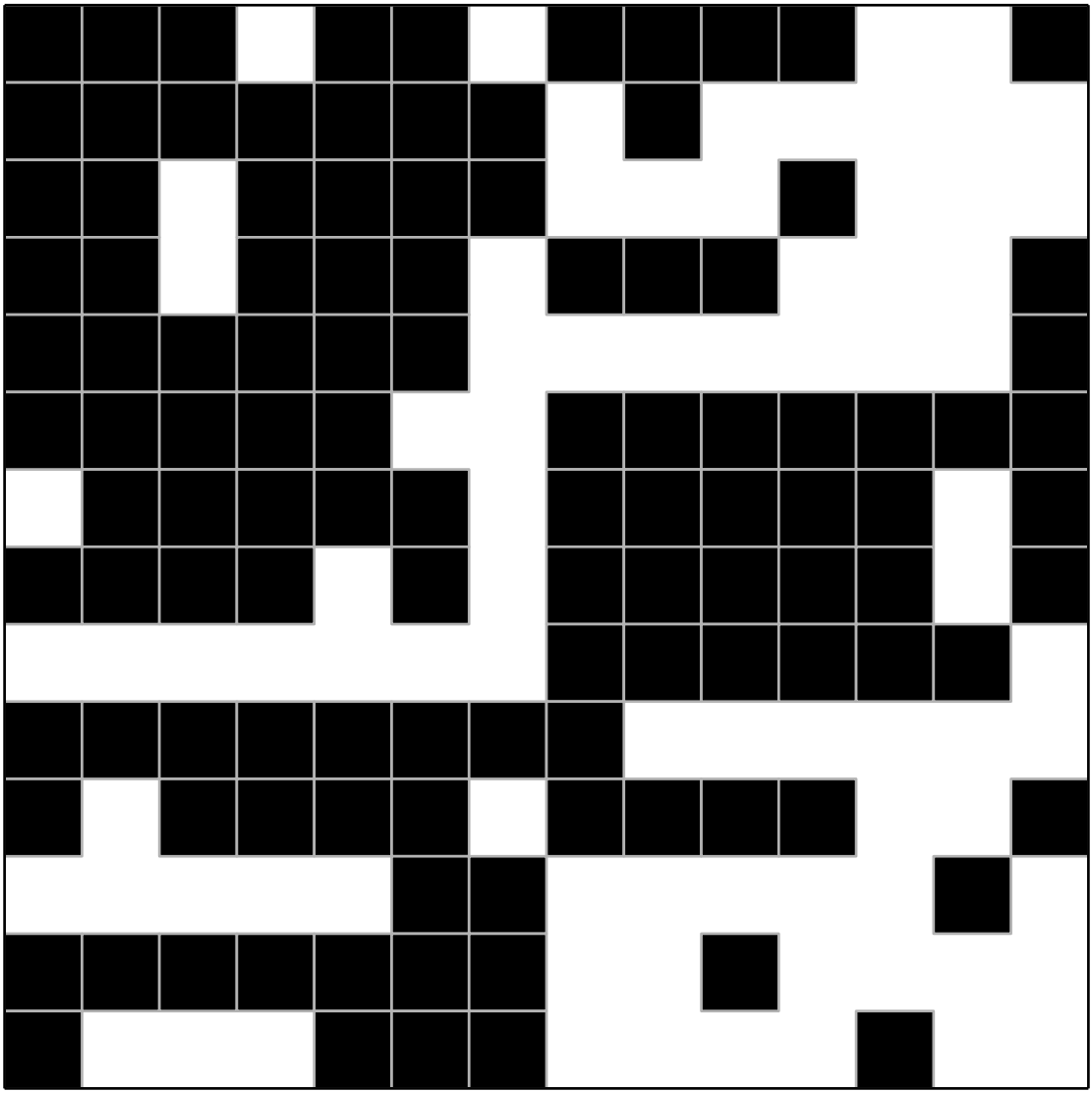
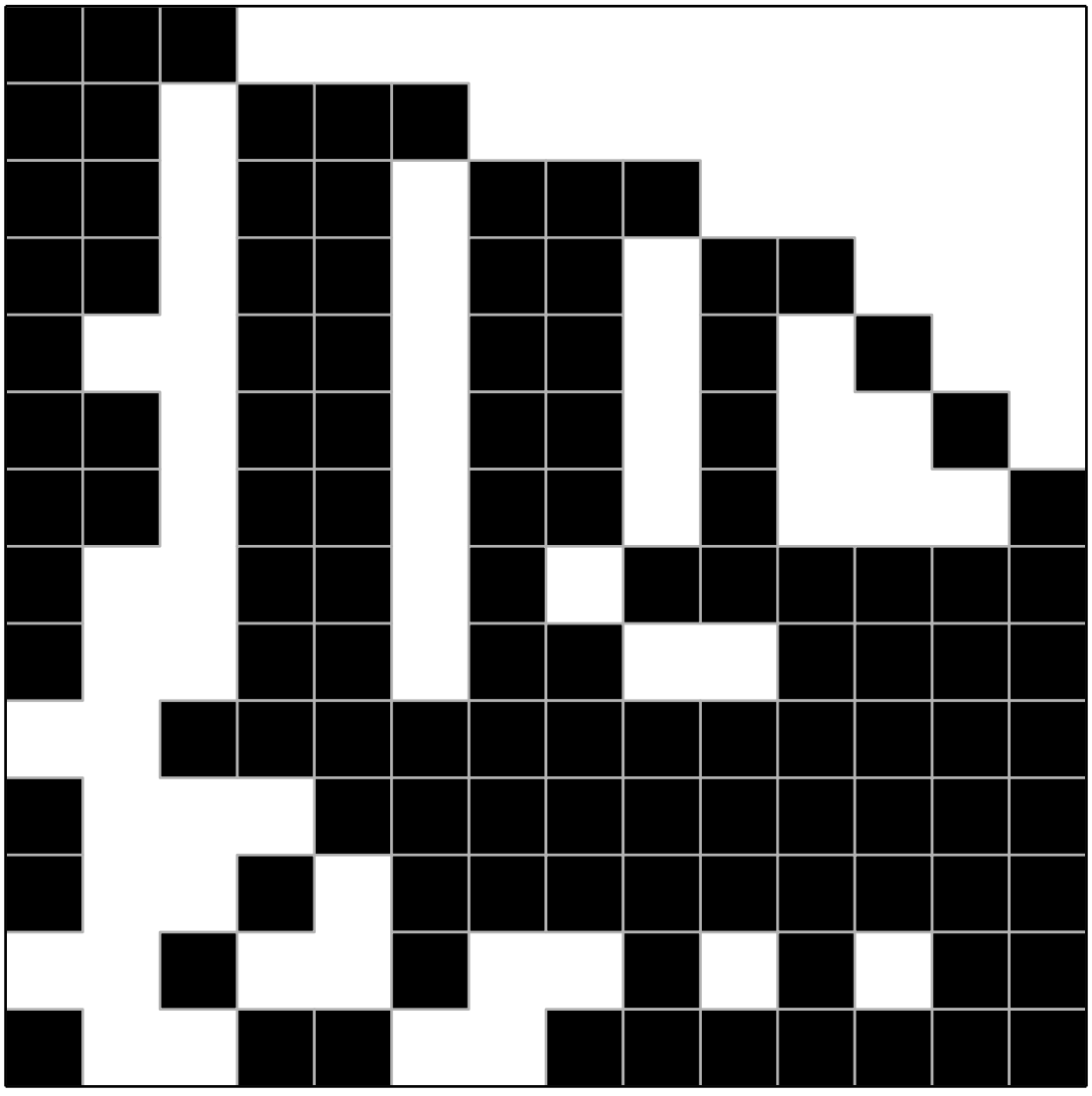
lib3_redeco7-07 14x14 (115) con: 7, var: 7

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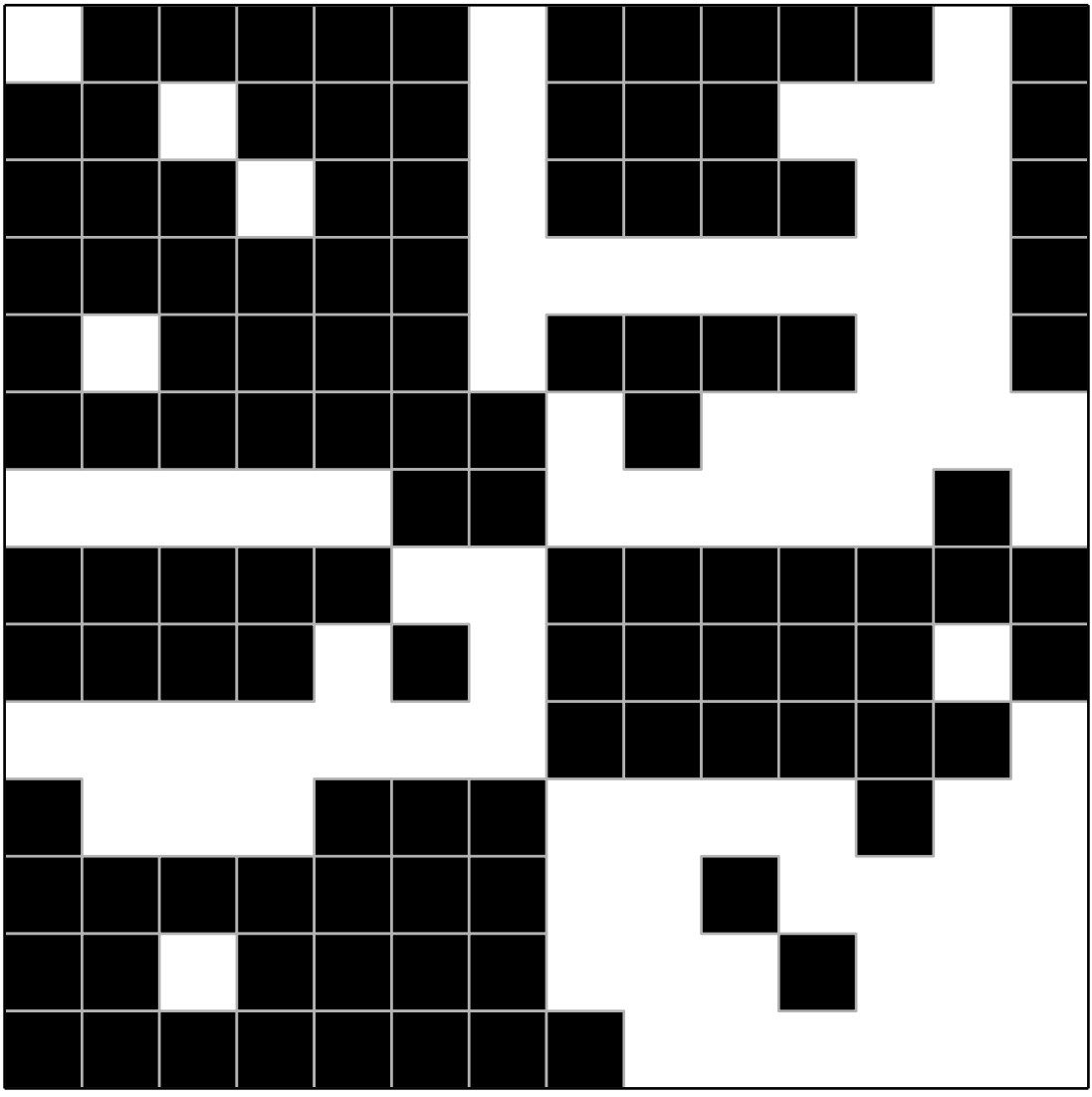
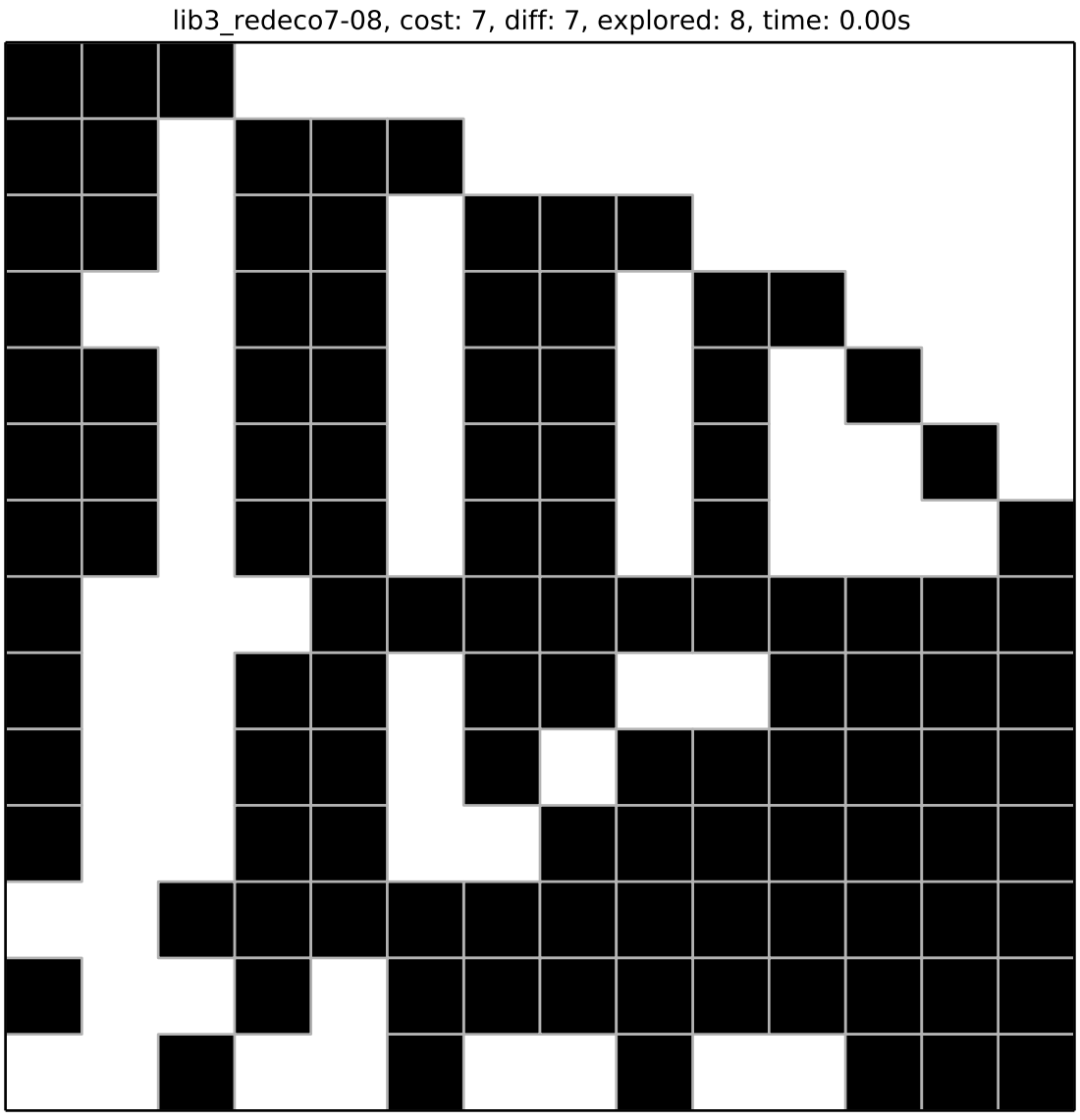
lib3_redeco7-08 14x14 (115) con: 7, var: 7

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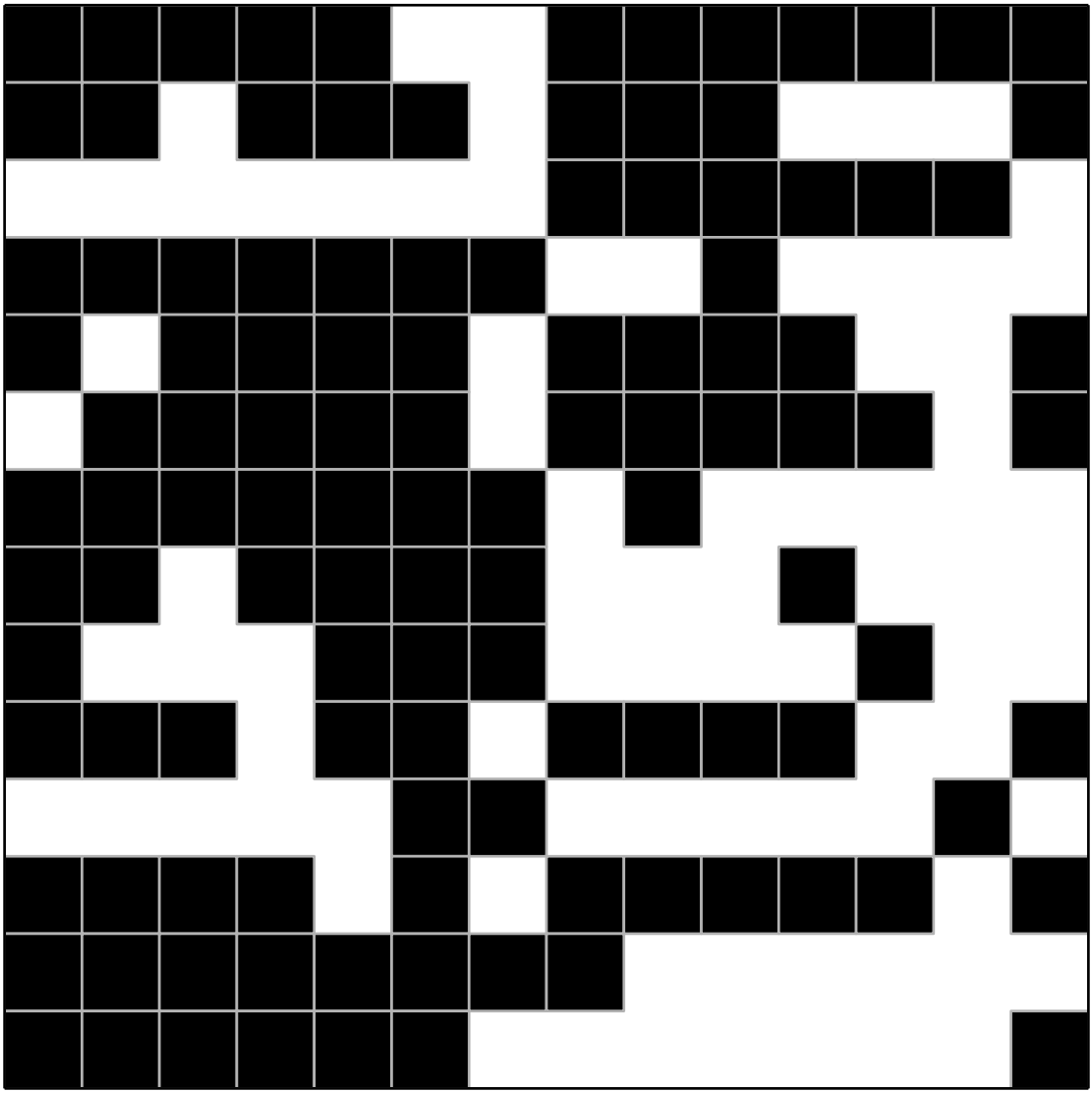
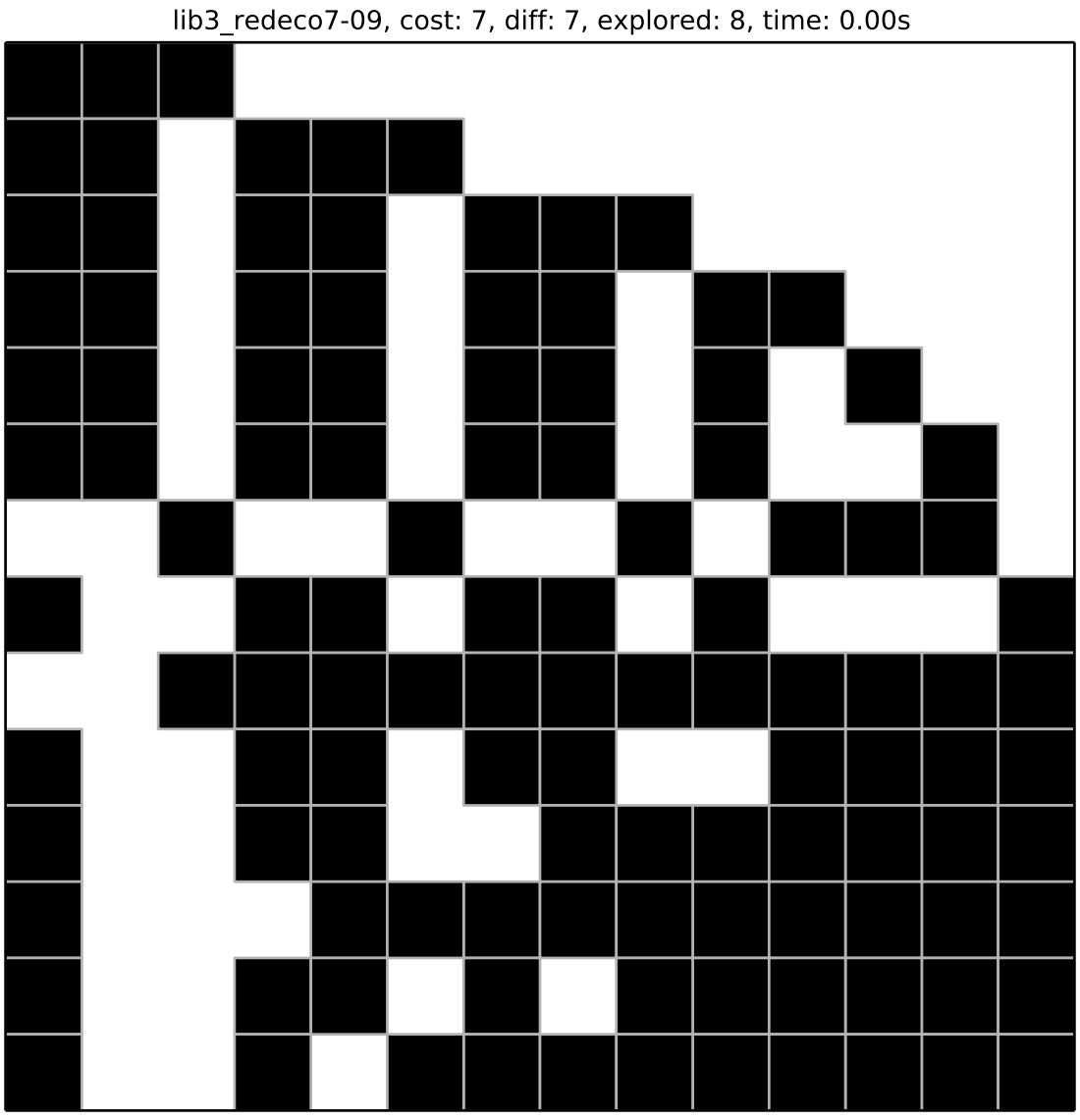
lib3_redeco7-09 14x14 (115) con: 7, var: 7

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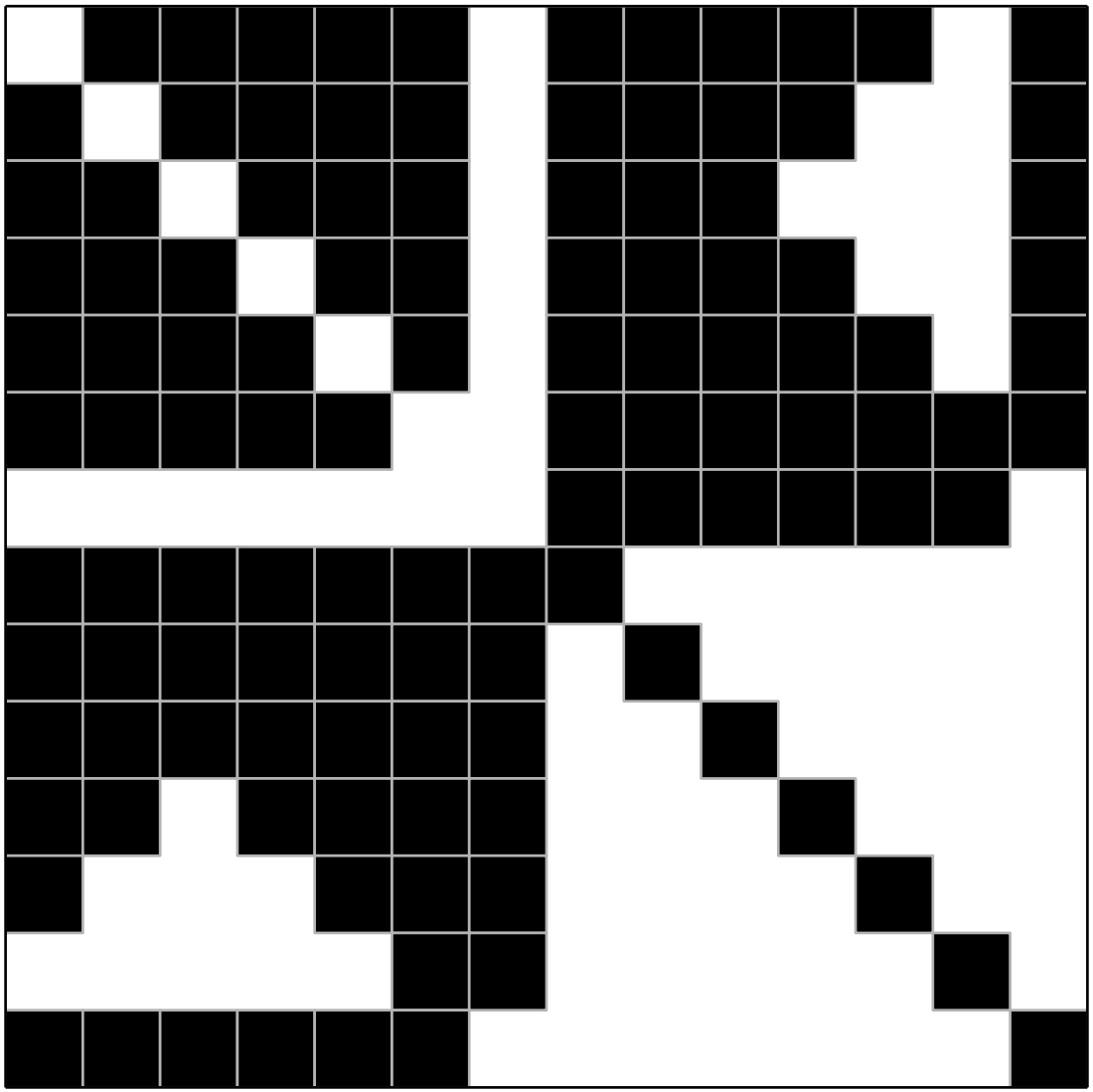
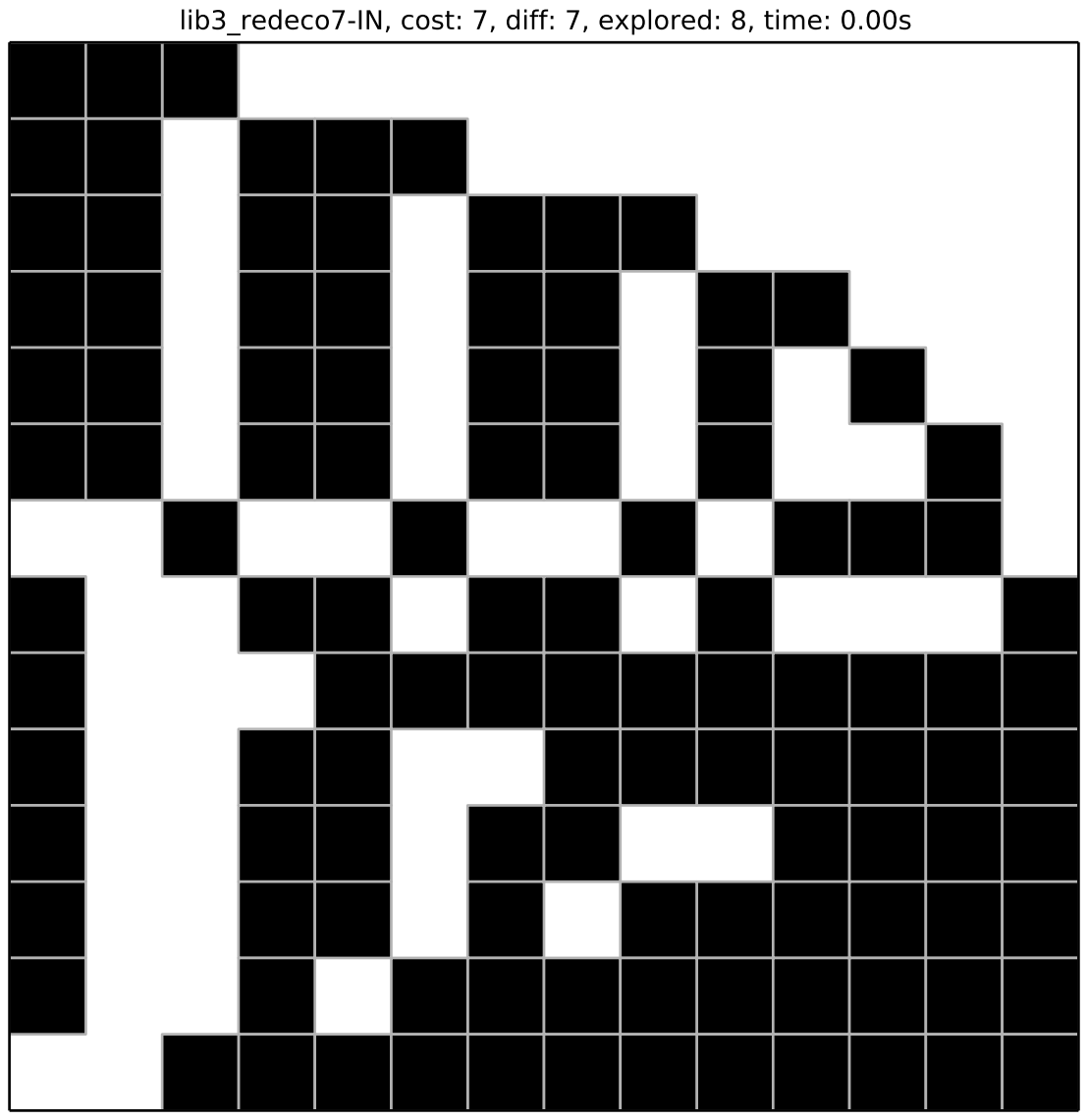

lib3_redeco7-IN 14x14 (115) con: 7, var: 7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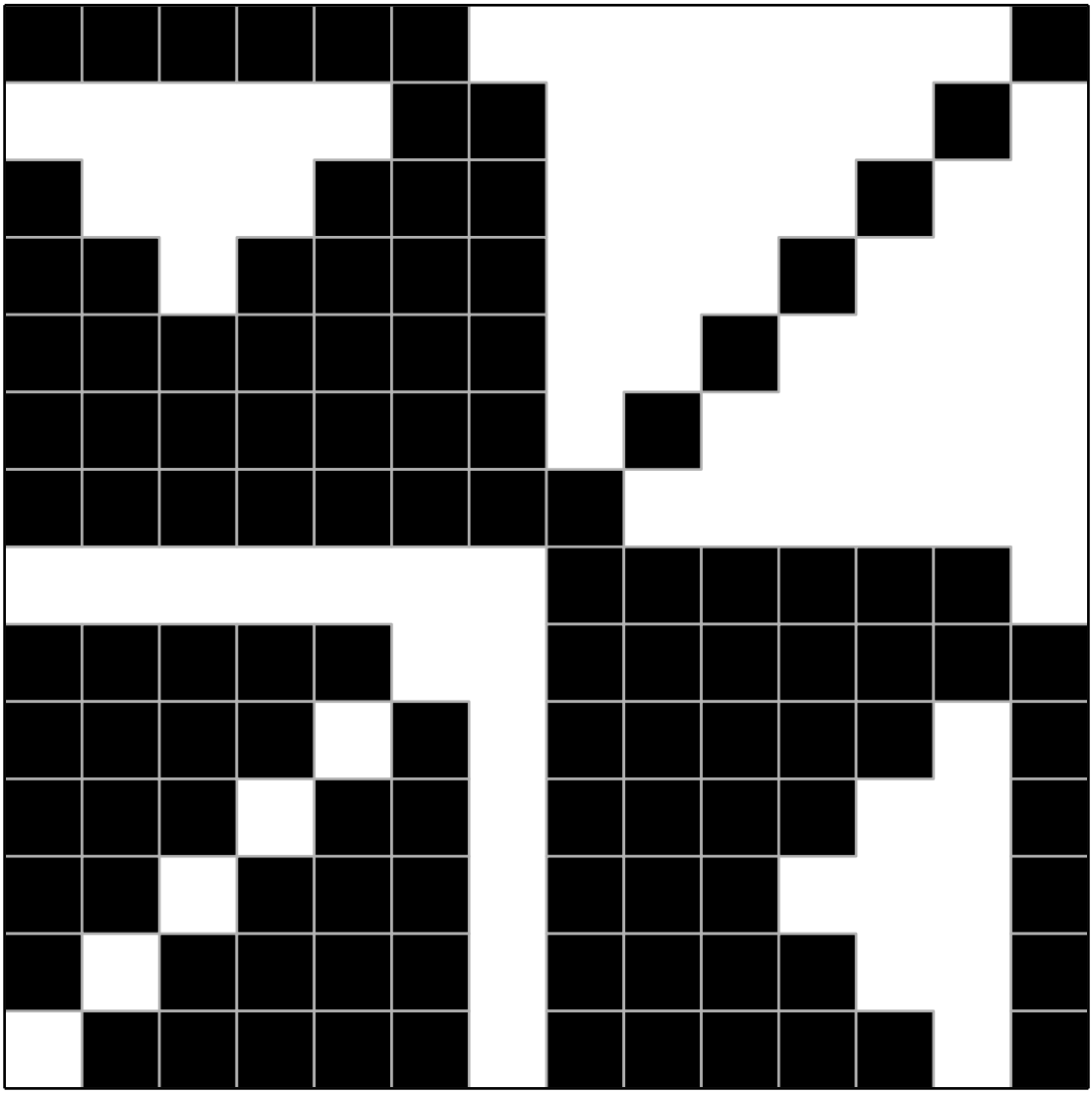
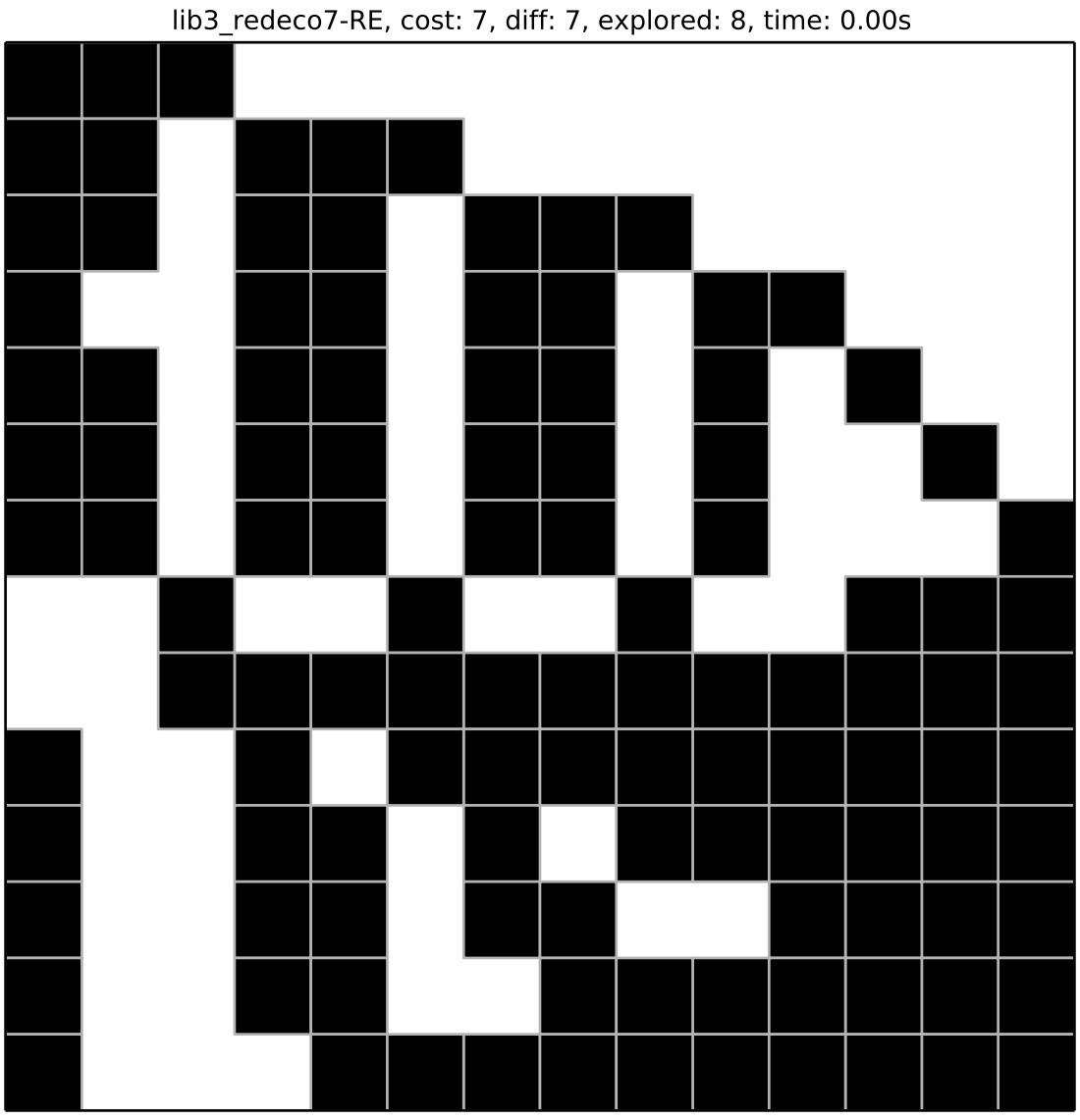
lib3_redeco7-RE 14x14 (115) con: 7, var: 7

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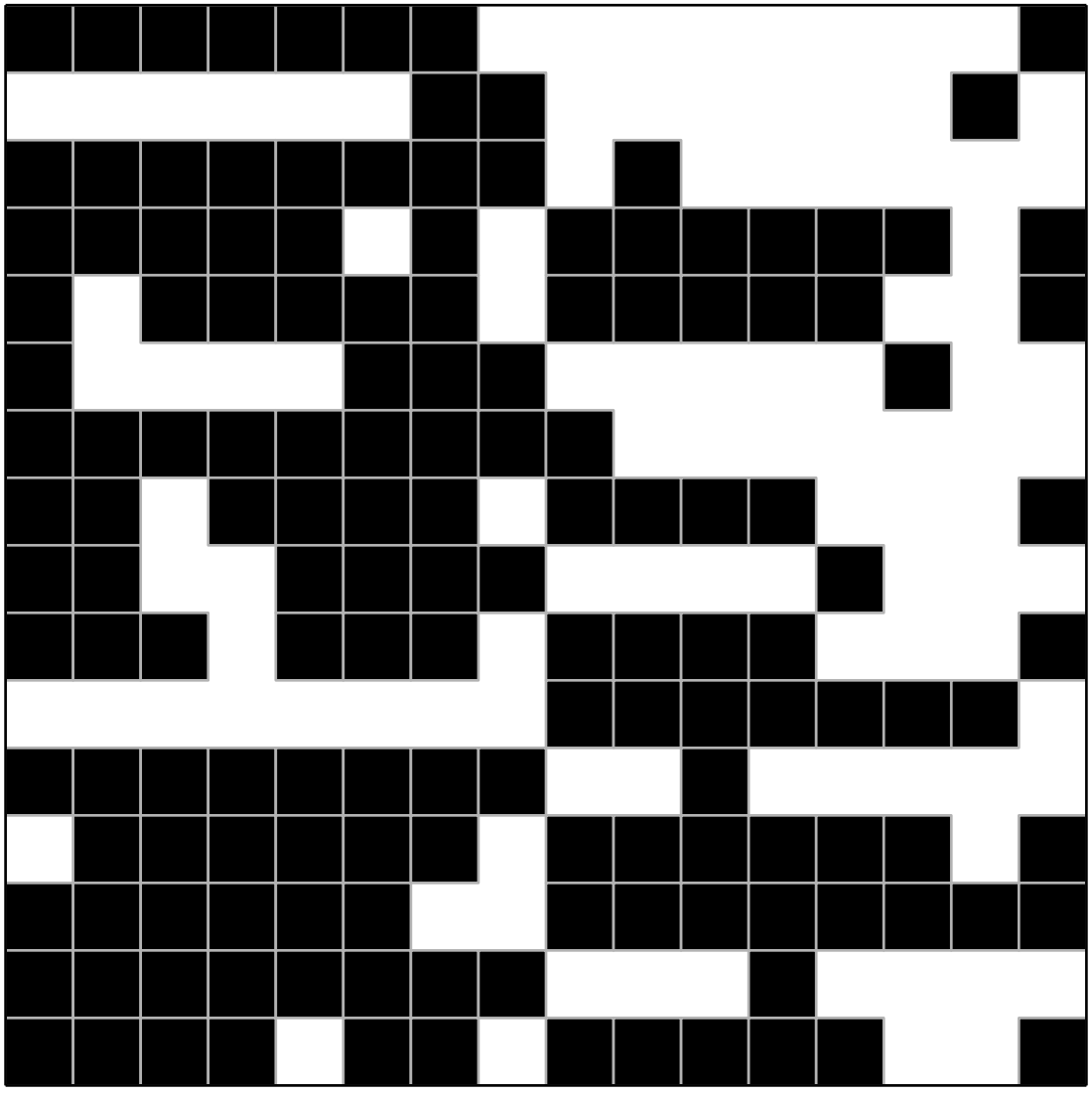
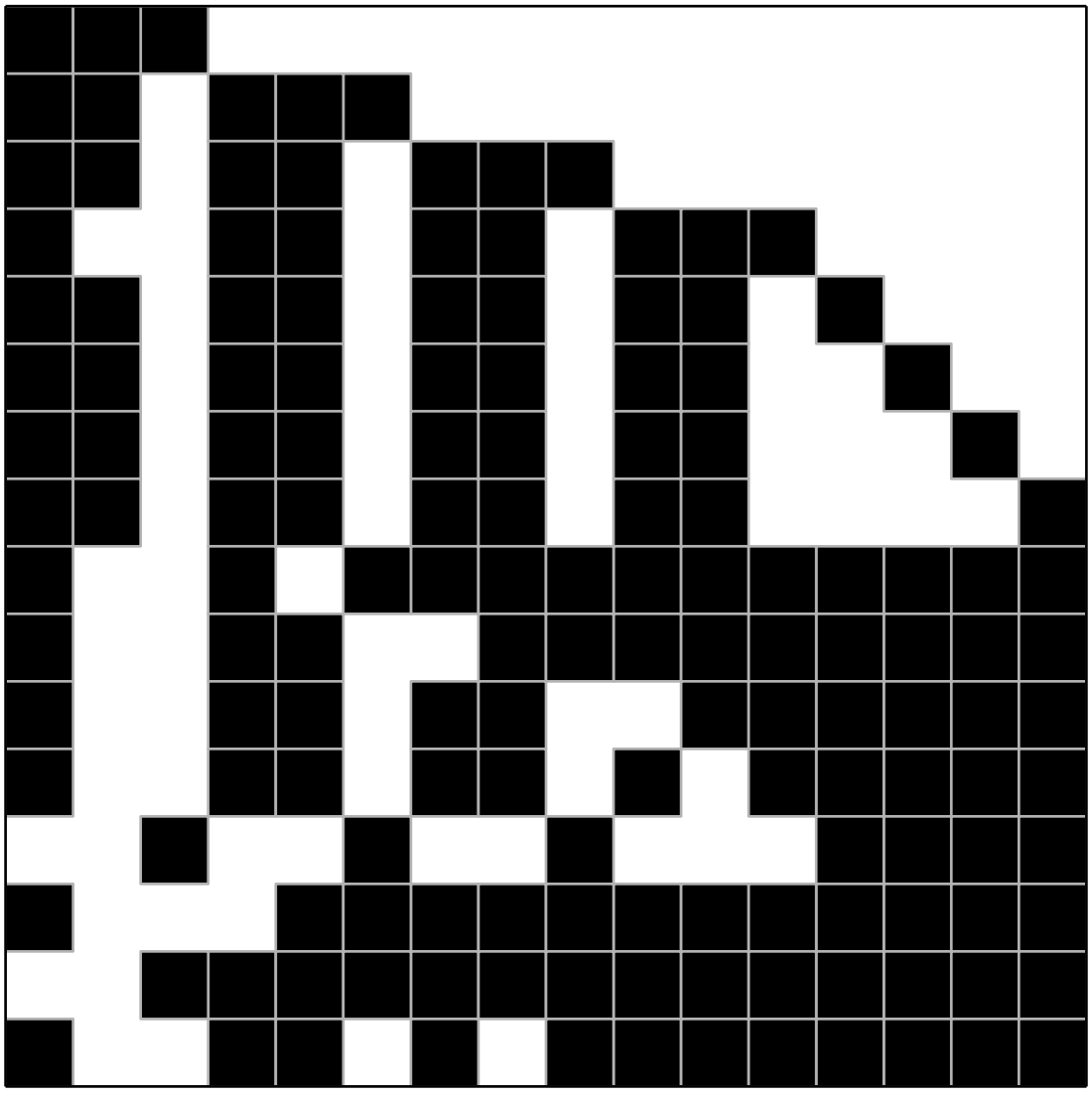
lib3_redeco8-00 16x16 (152) con: 8, var: 8

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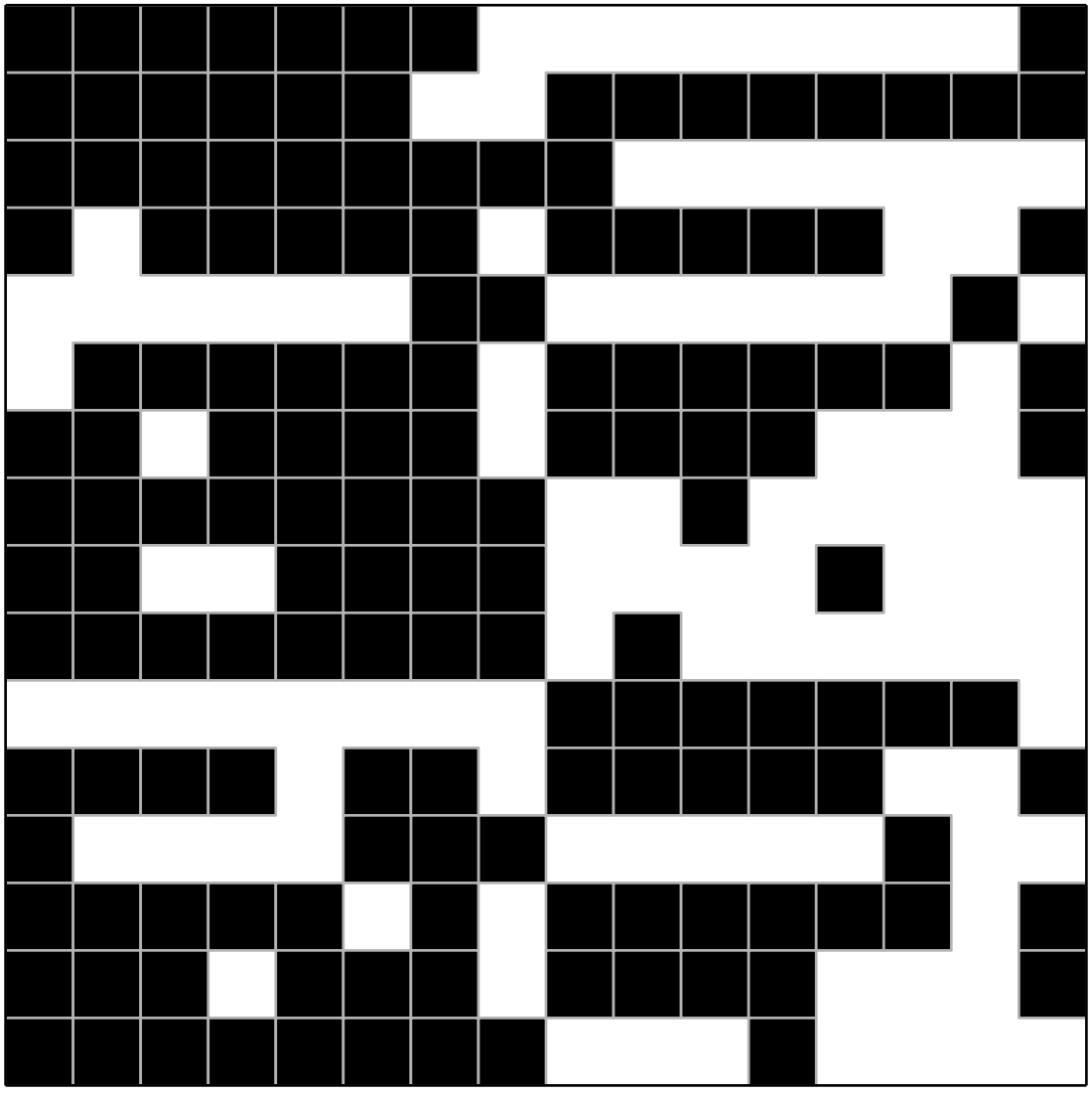
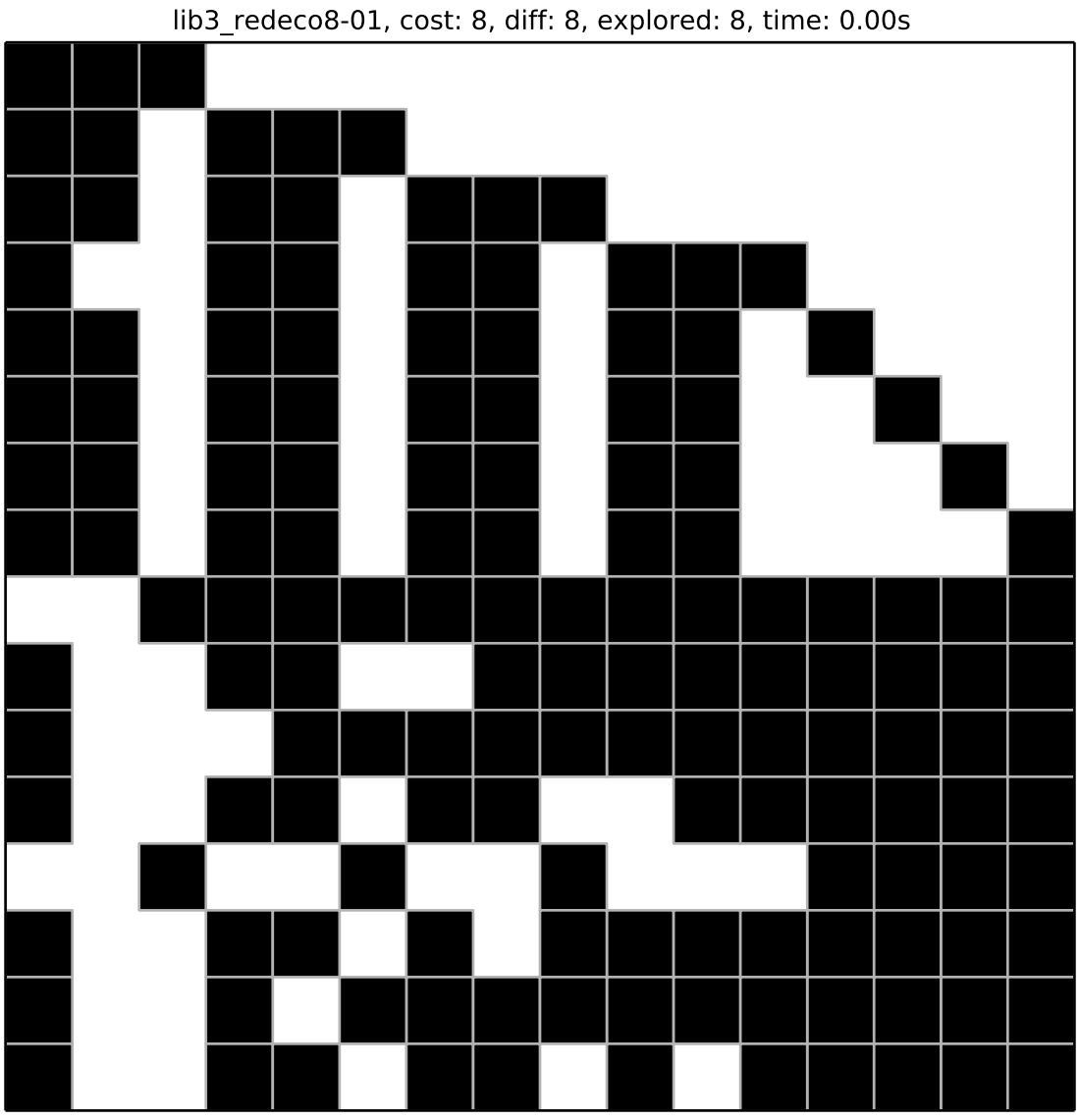
lib3_redeco8-01 16x16 (152) con: 8, var: 8

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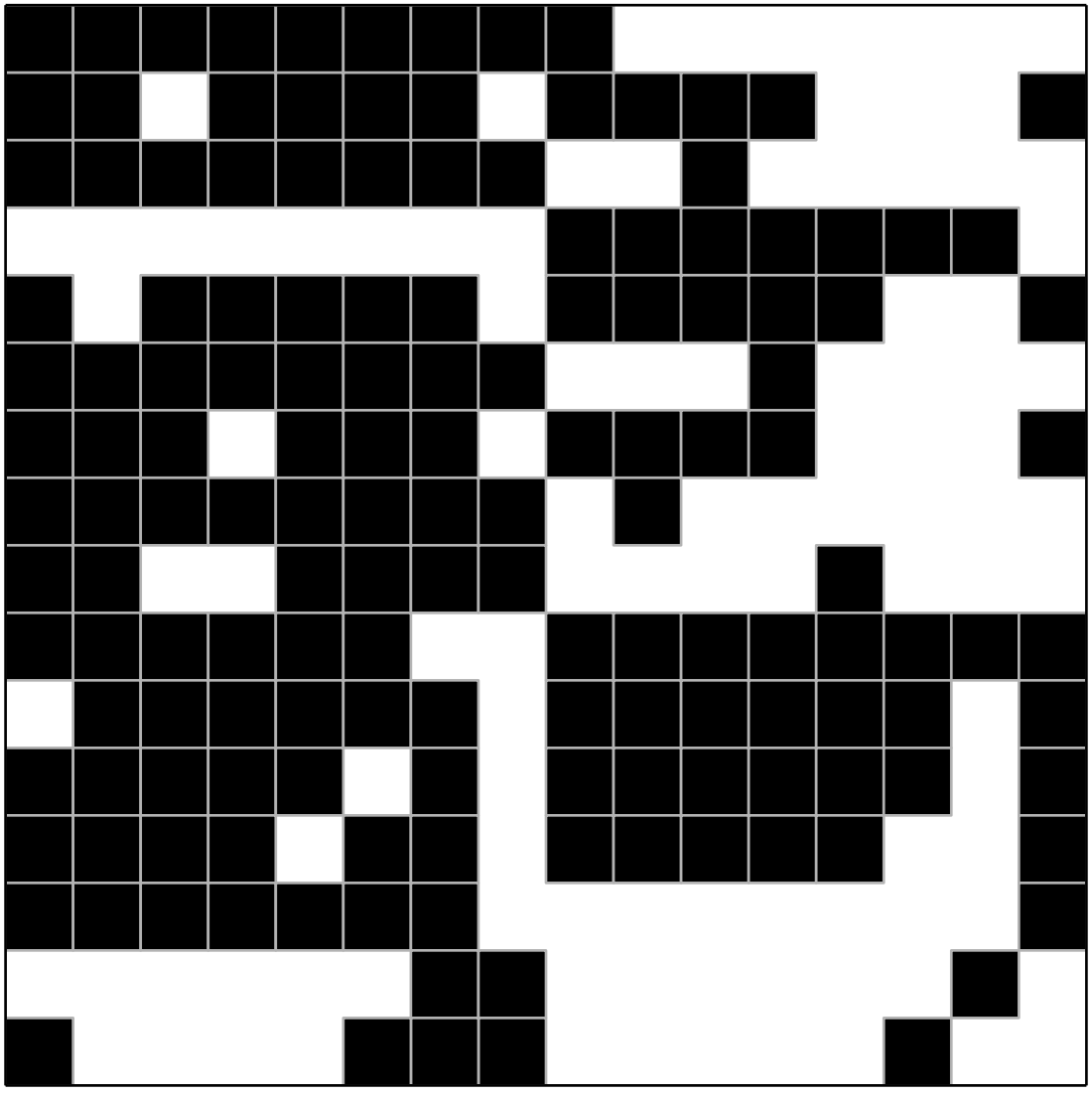
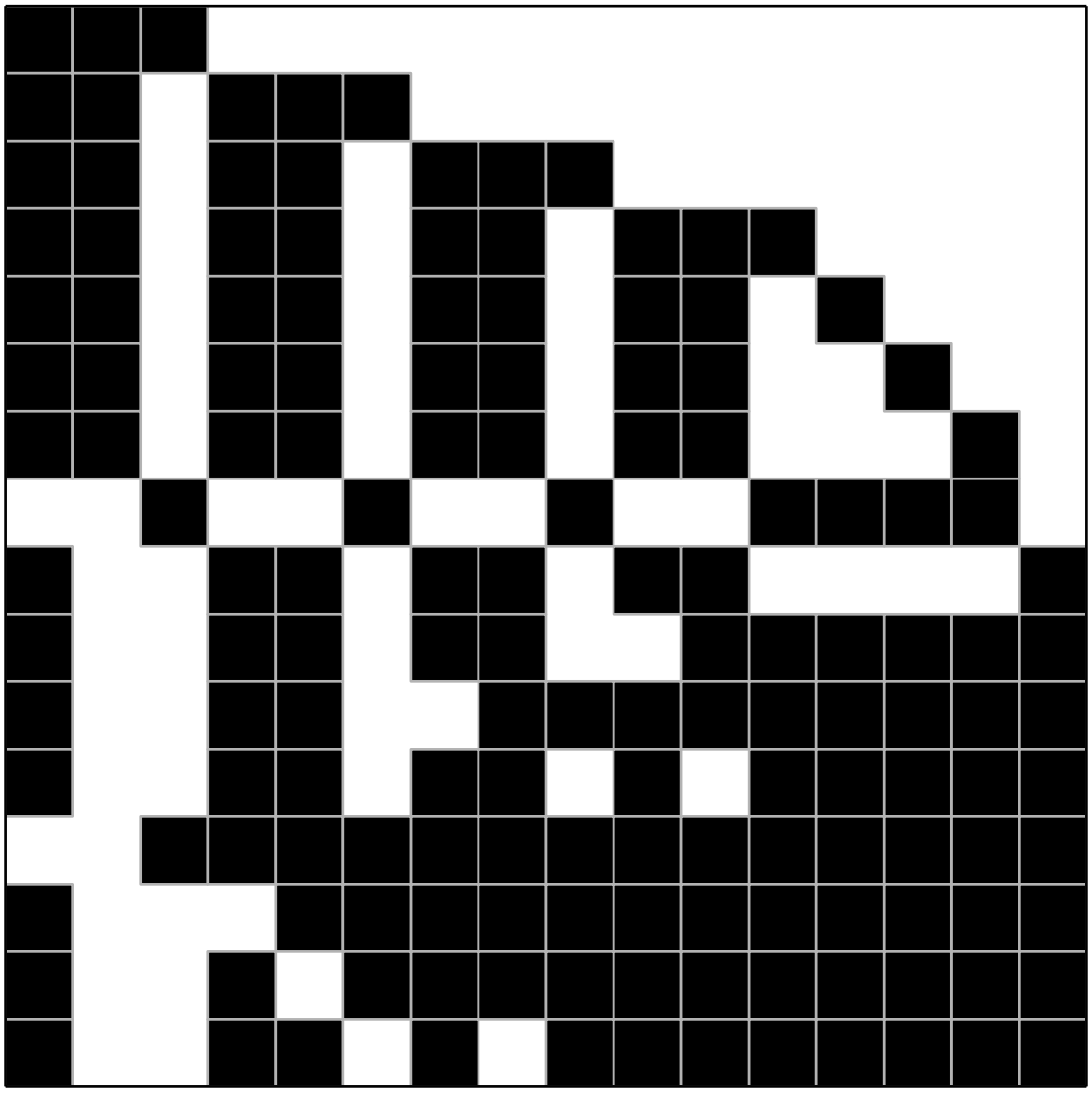
lib3_redeco8-02 16x16 (152) con: 8, var: 8

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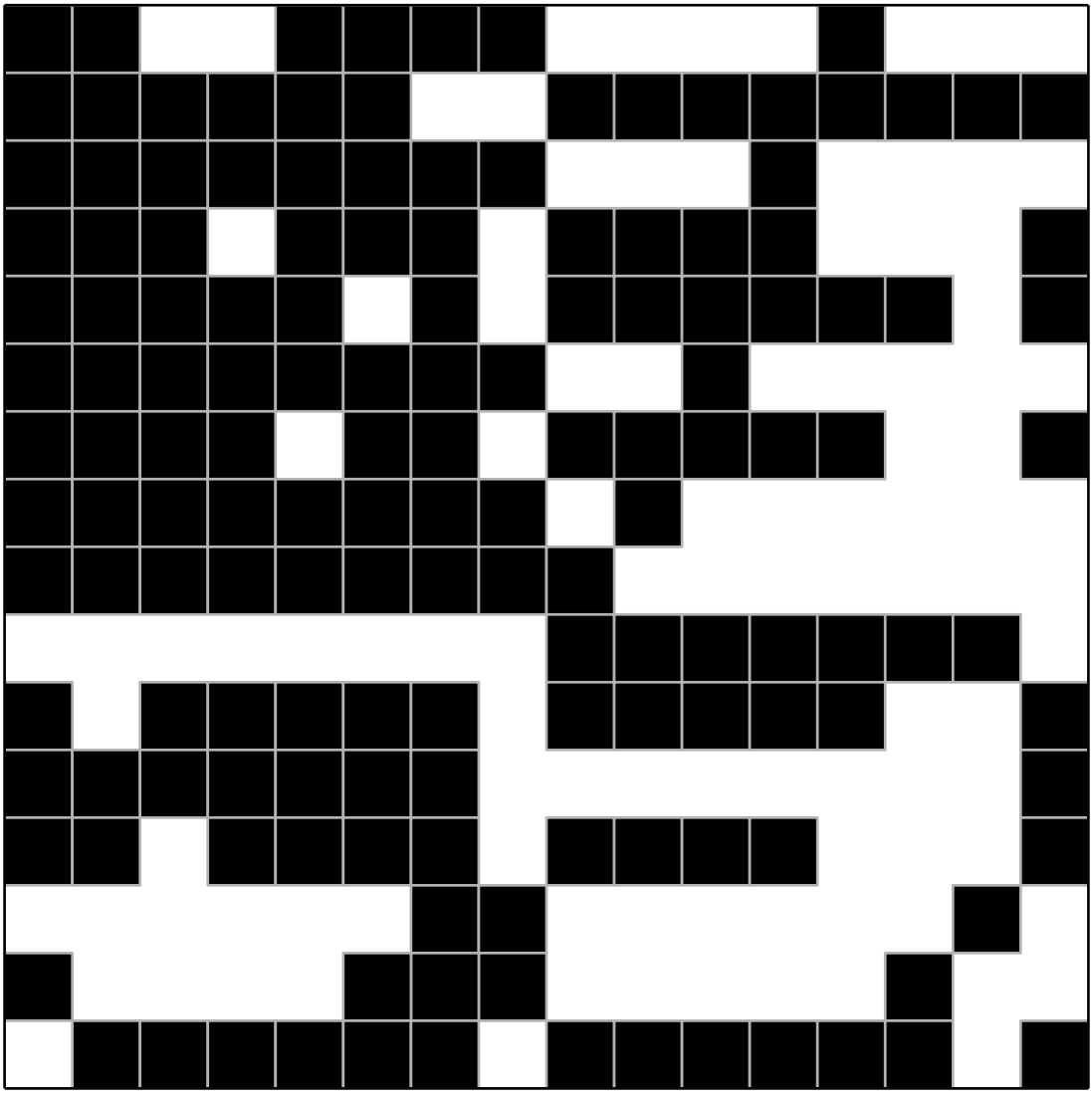
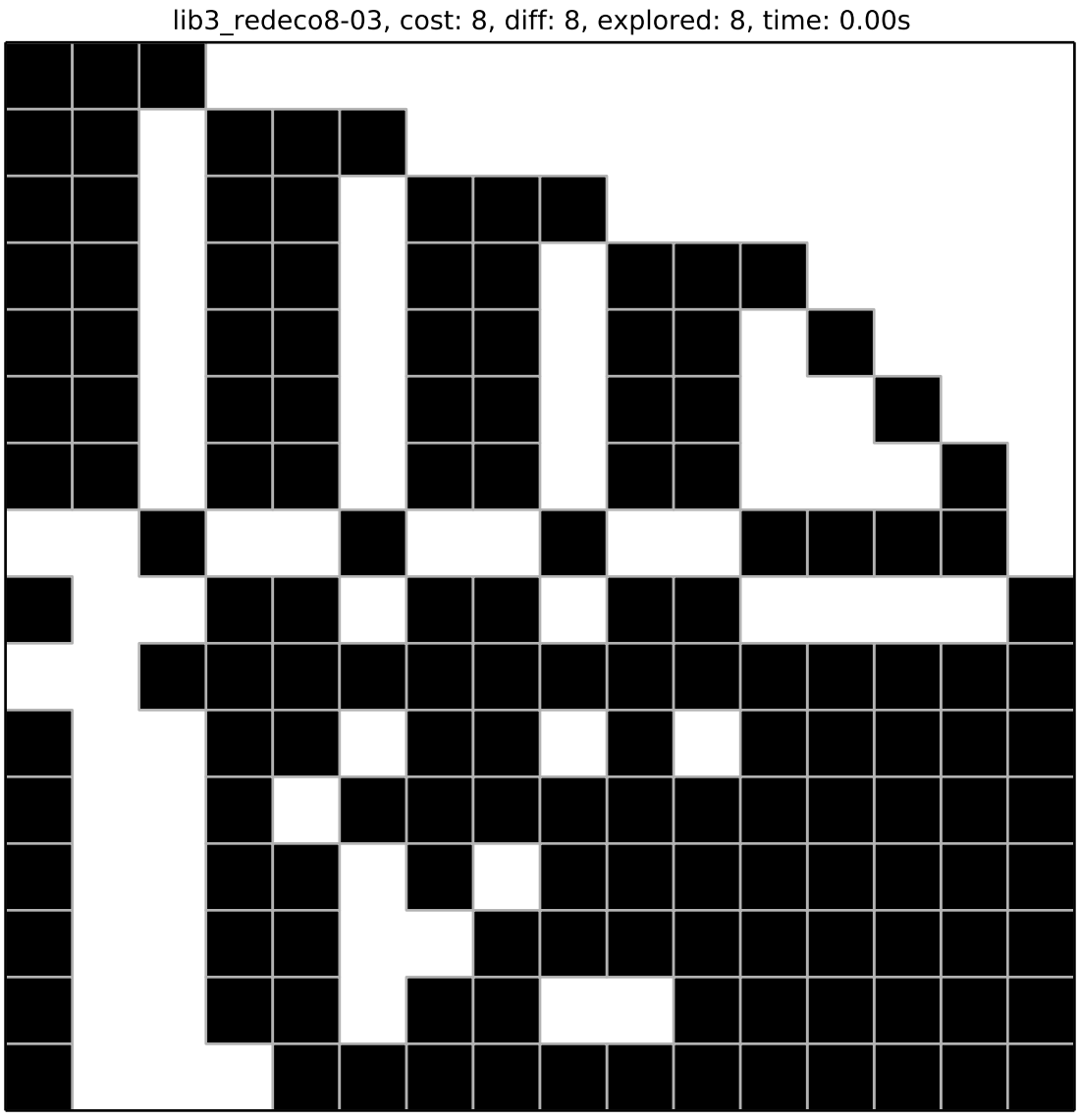
lib3_redeco8-03 16x16 (152) con: 8, var: 8

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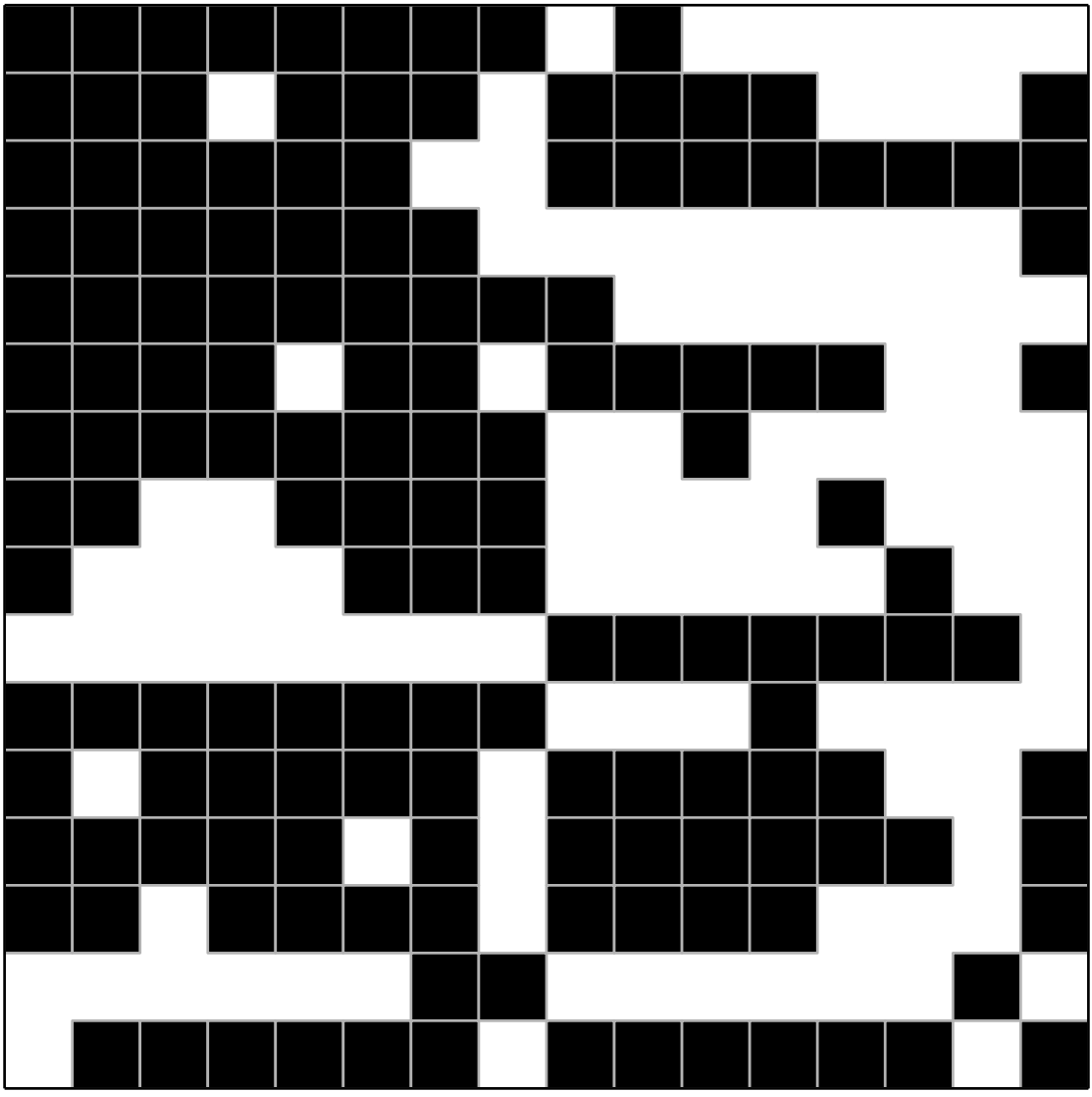
lib3_redeco8-04 16x16 (152) con: 8, var: 8



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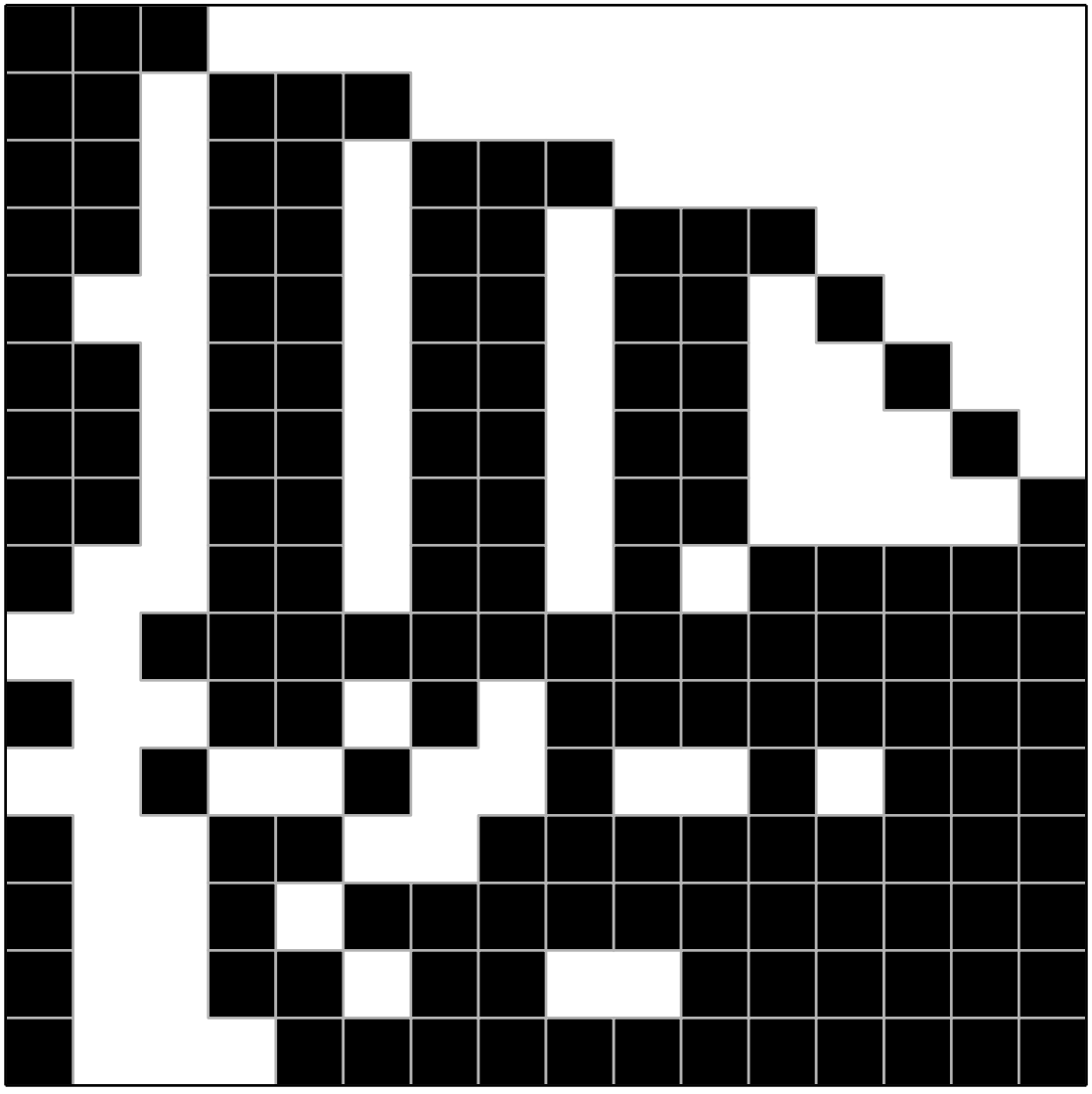
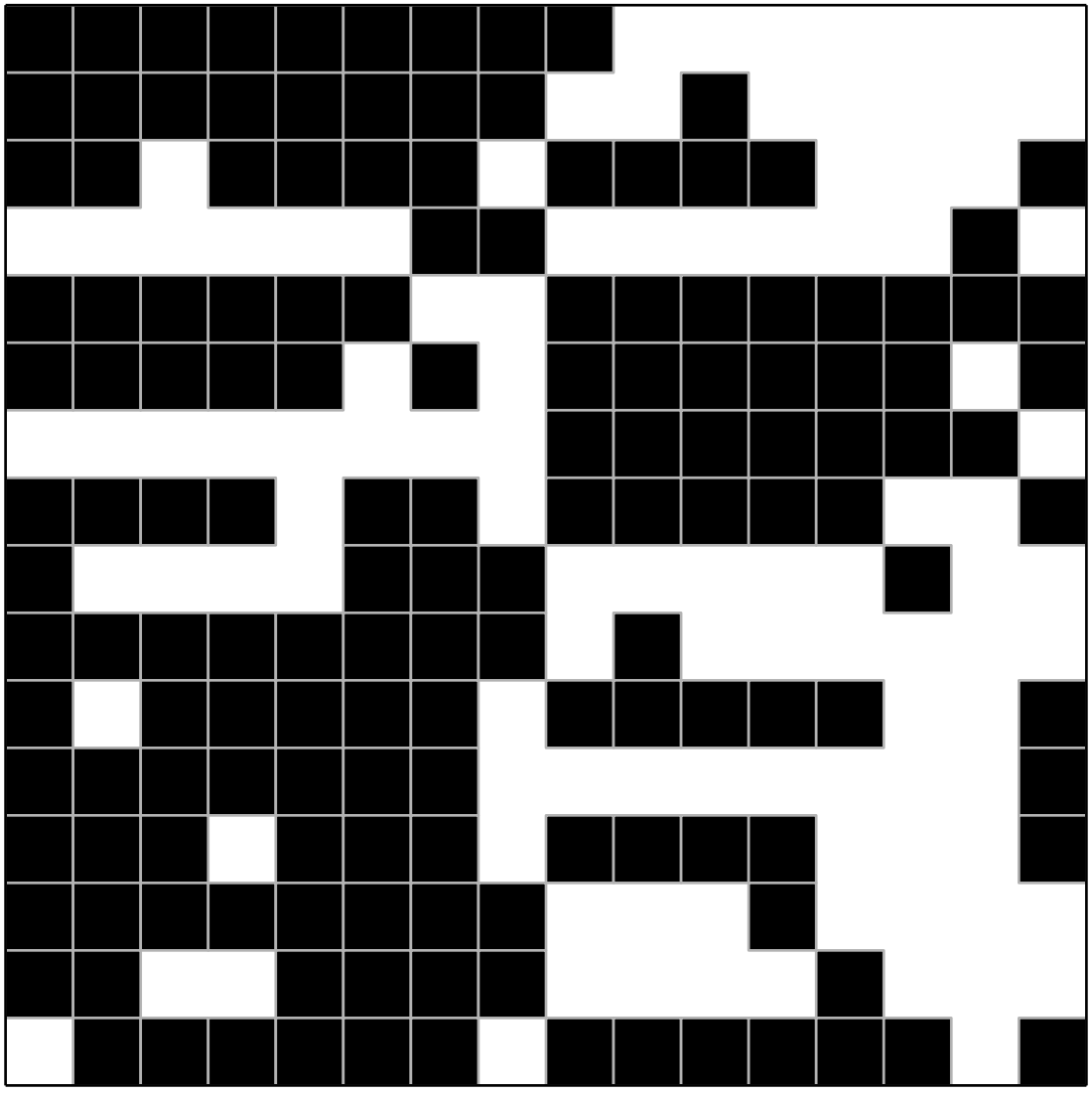
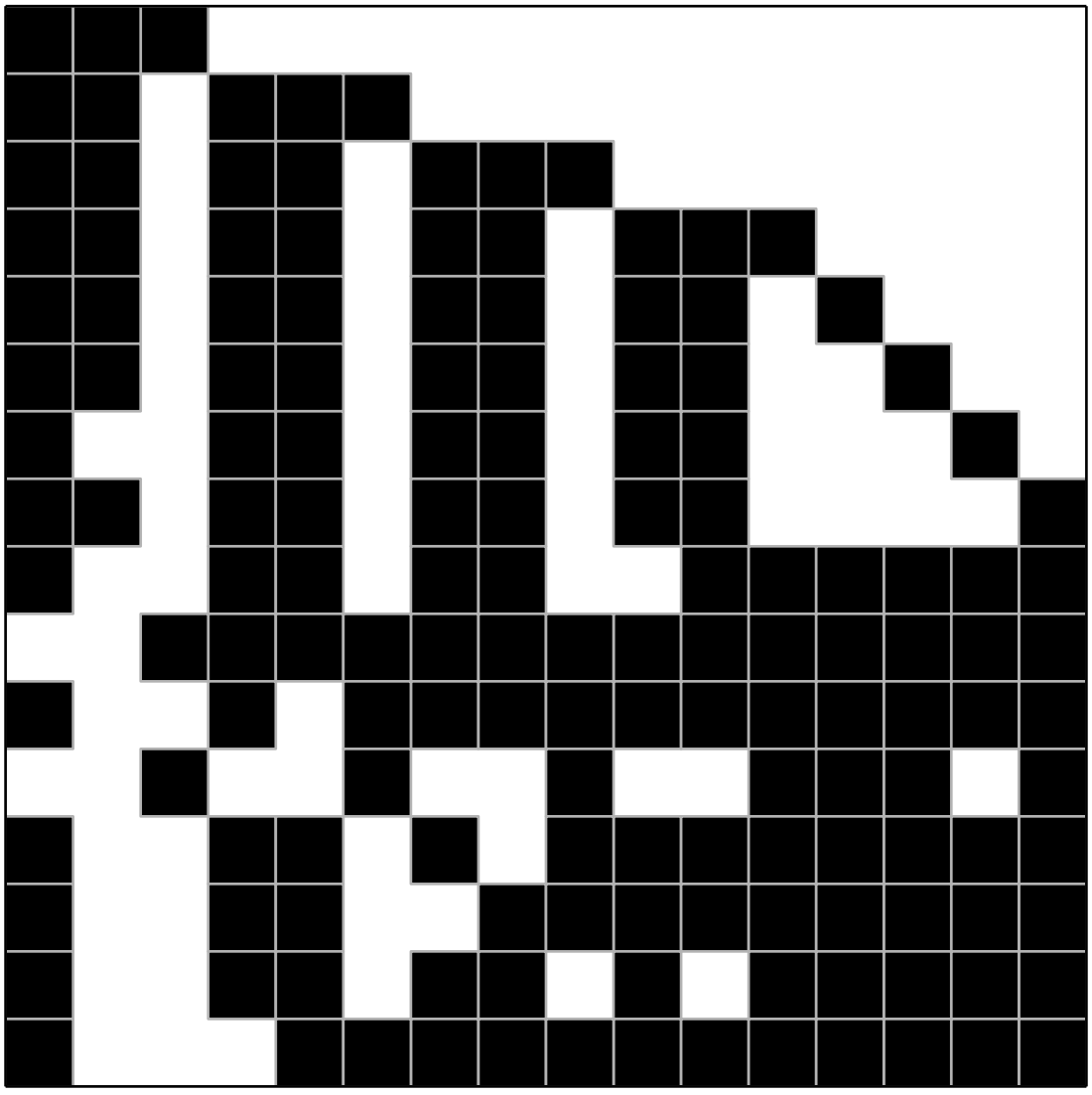


lib3_redeco8-05 16x16 (152) con: 8, var: 8

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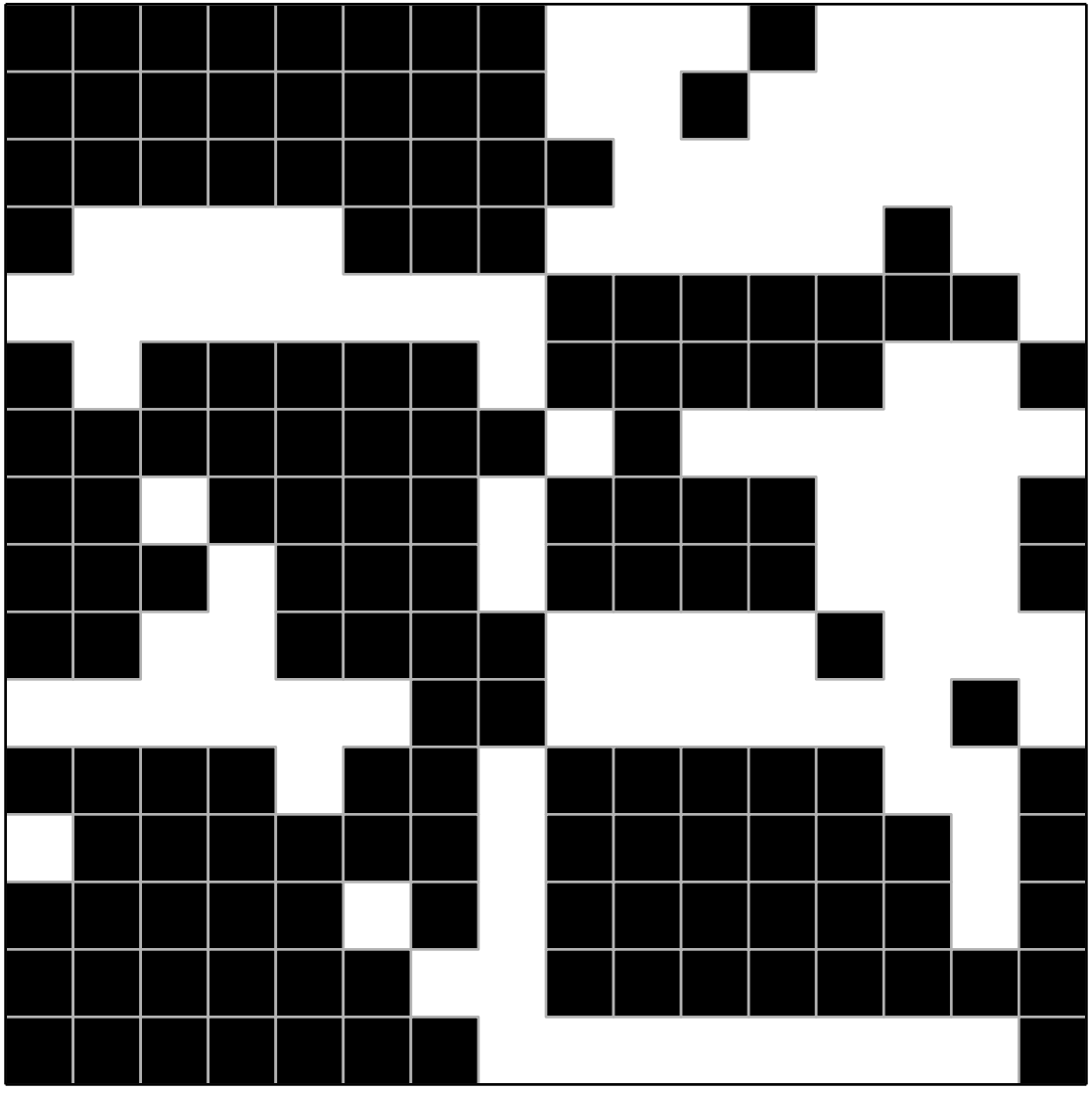
lib3_redeco8-06 16x16 (152) con: 8, var: 8



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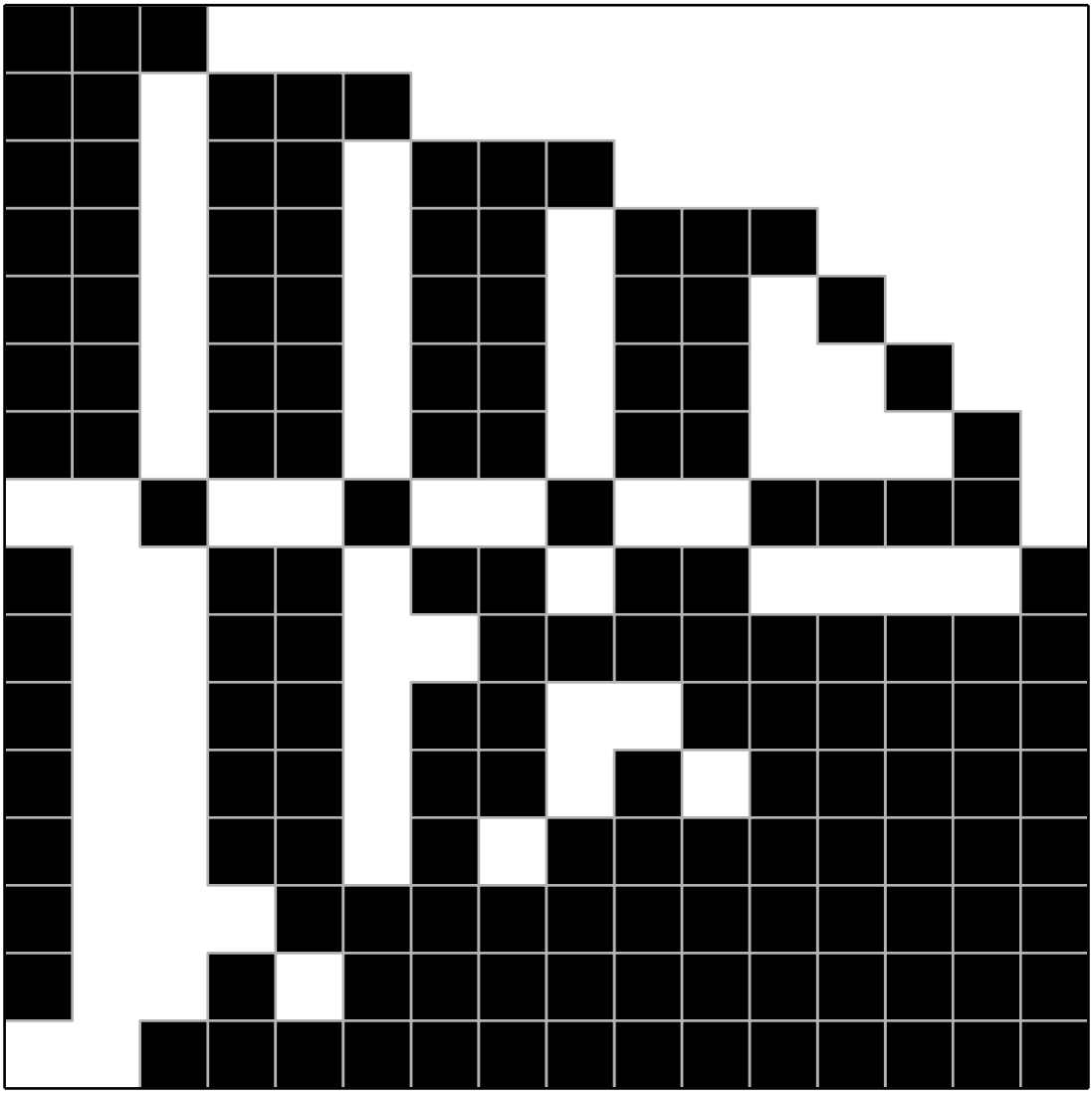
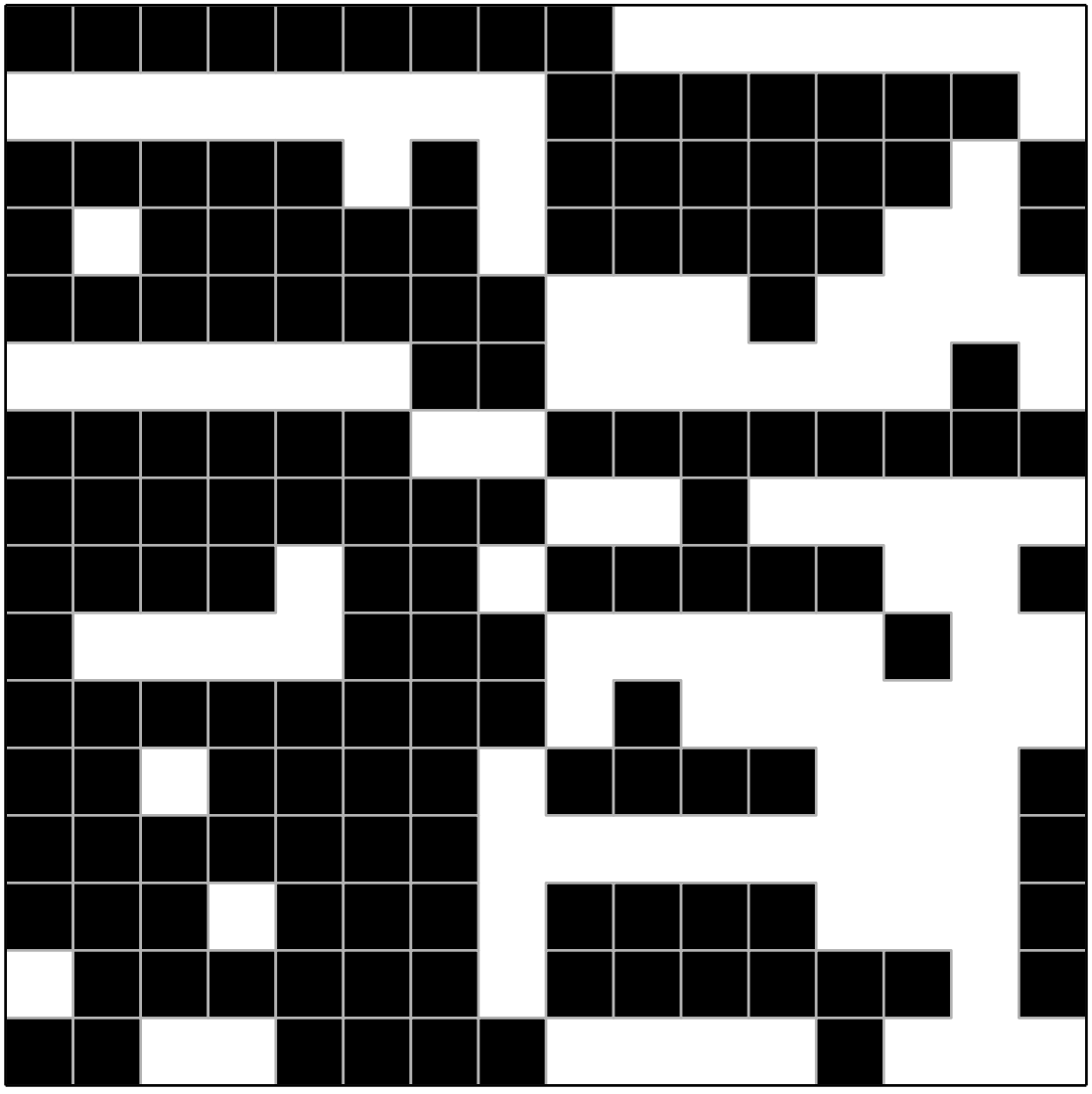
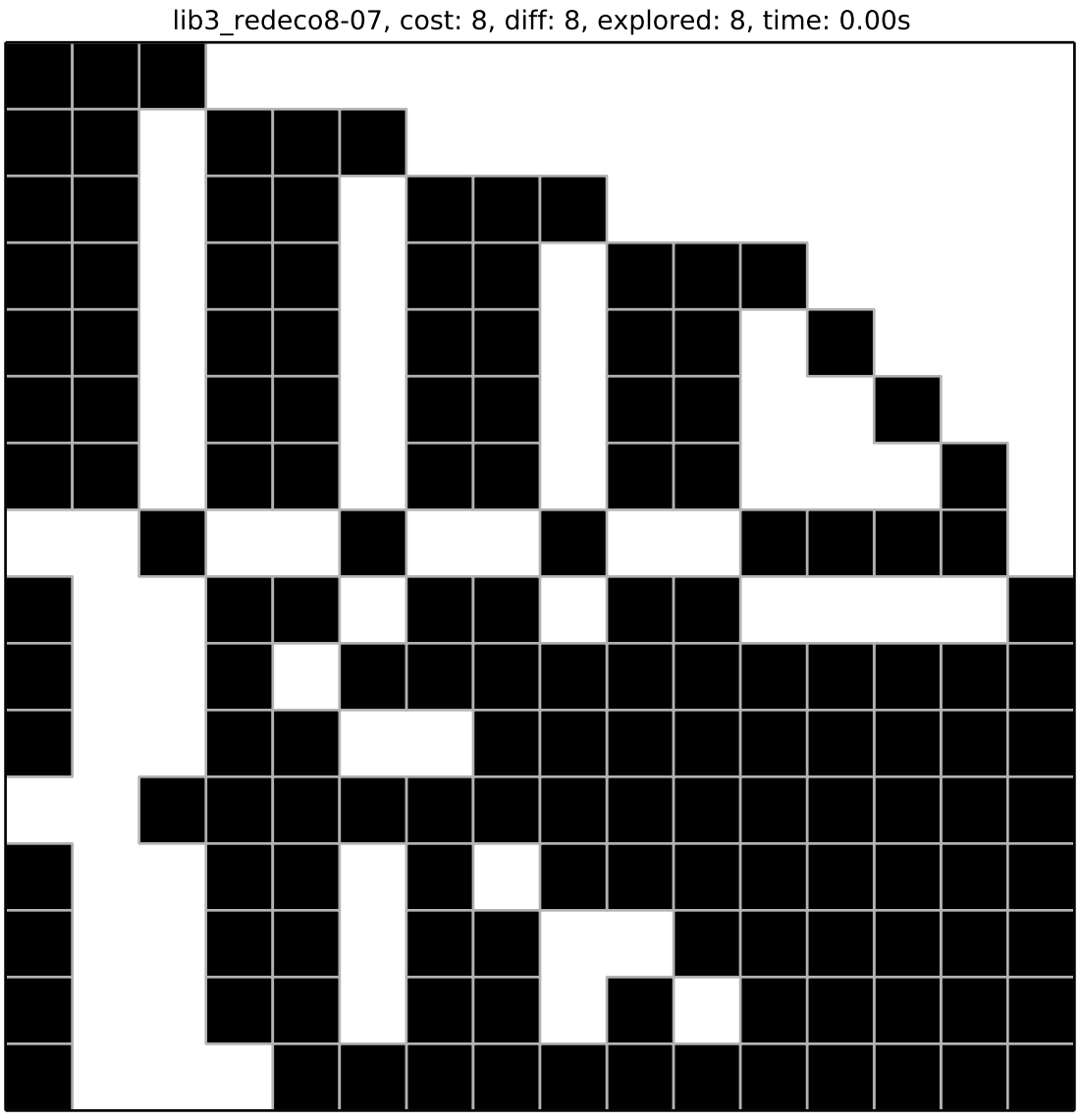


lib3_redeco8-07 16x16 (152) con: 8, var: 8

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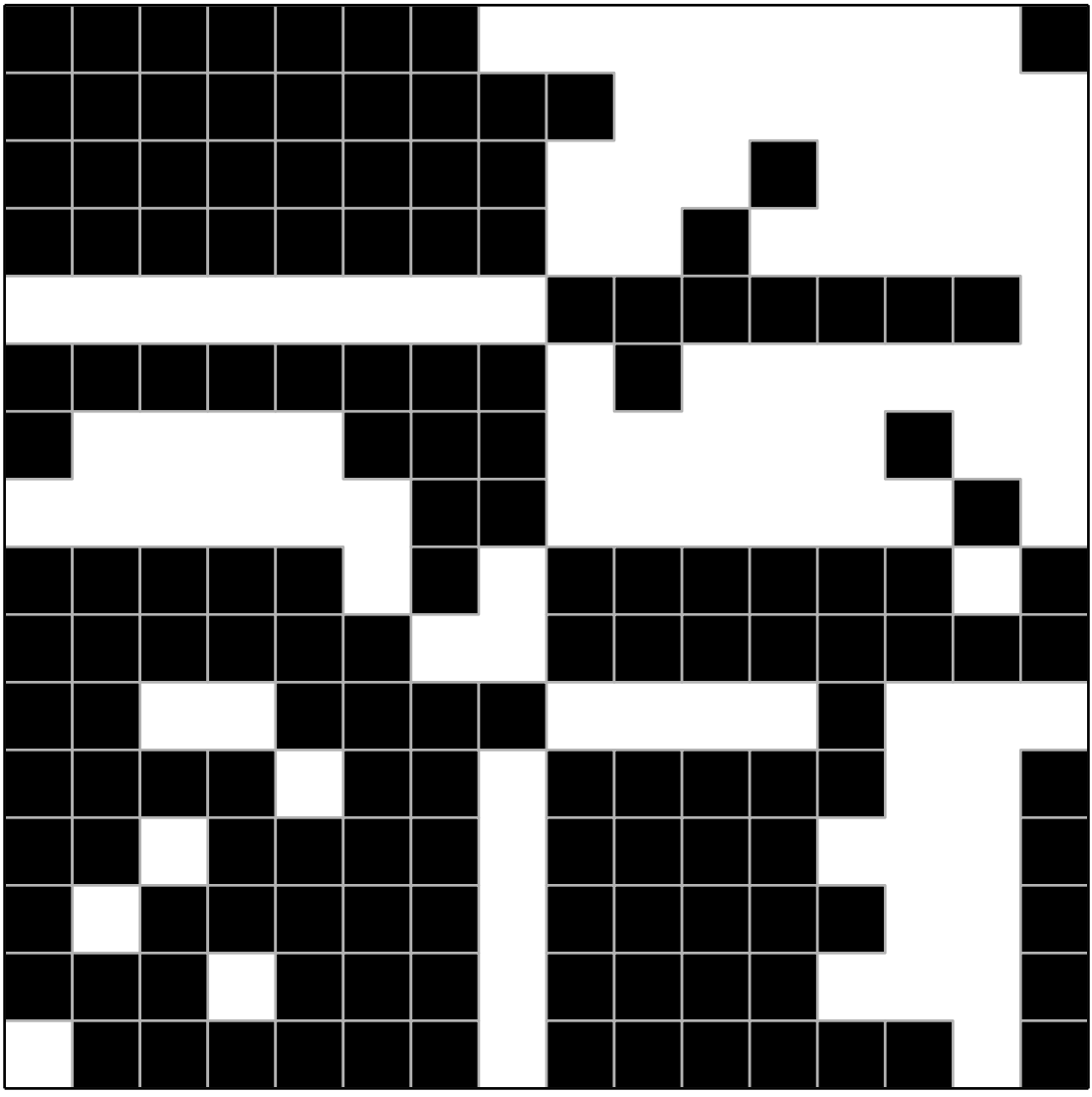
lib3_redeco8-08 16x16 (152) con: 8, var: 8



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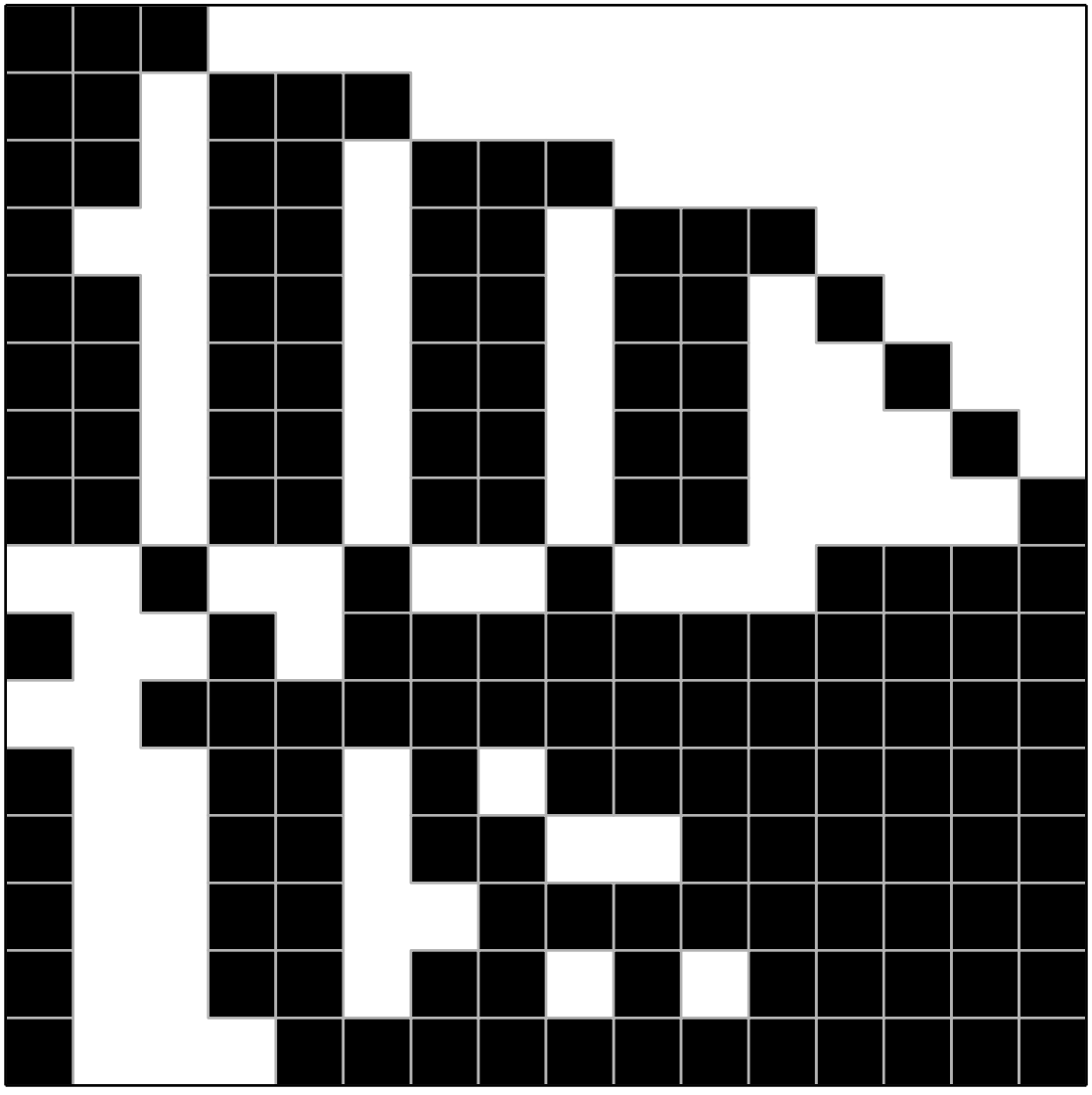
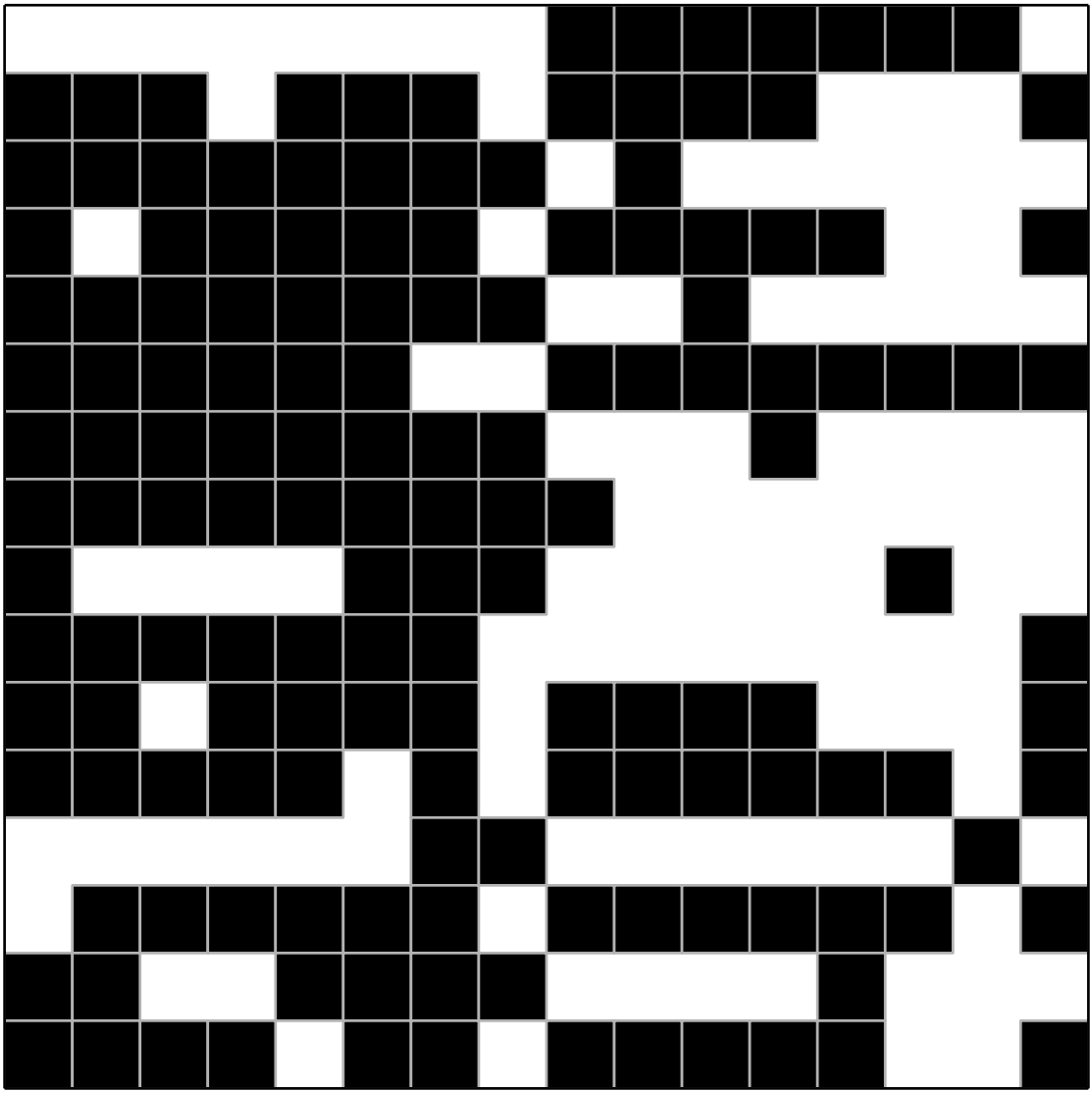
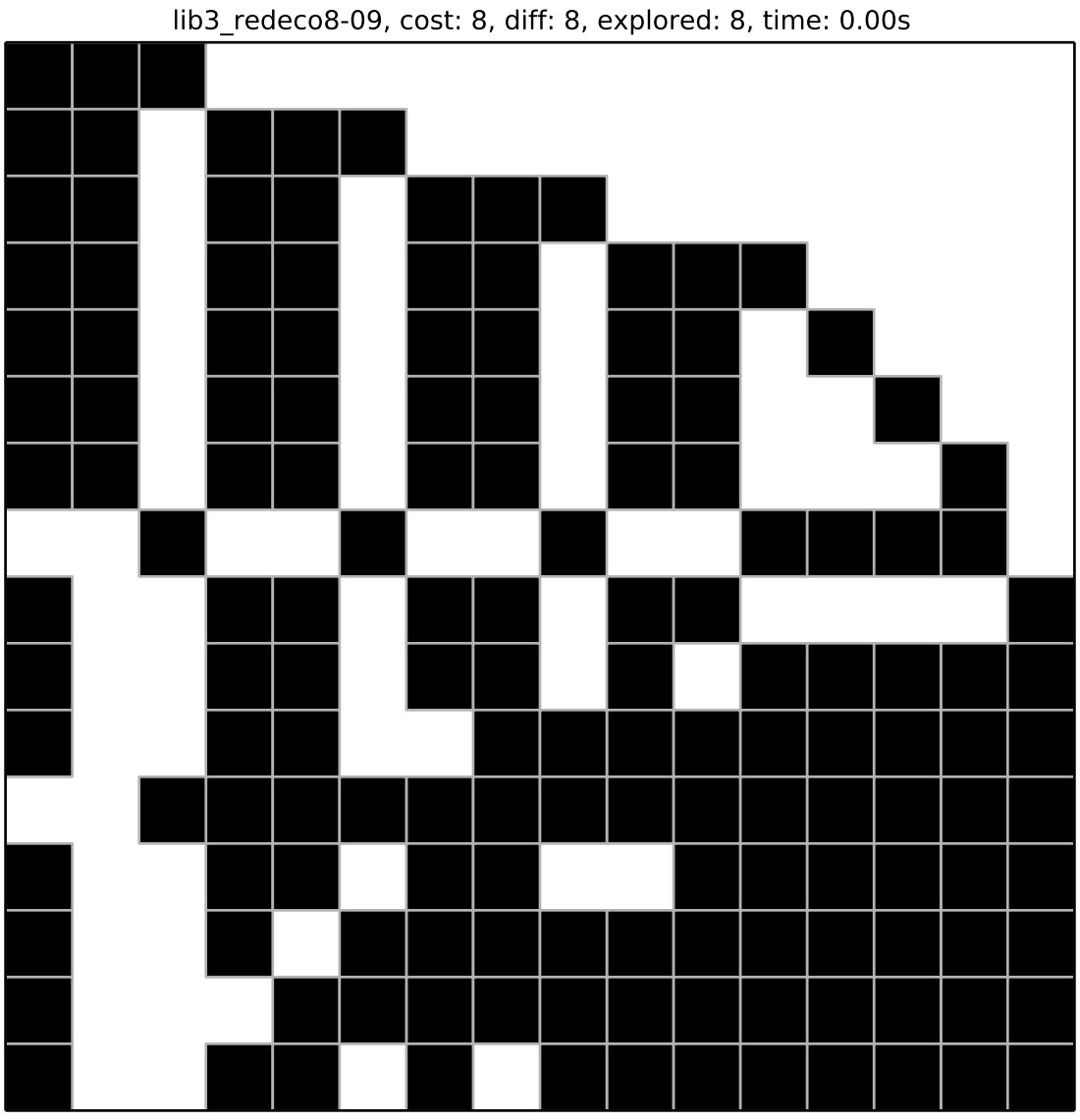


lib3_redeco8-09 16x16 (152) con: 8, var: 8

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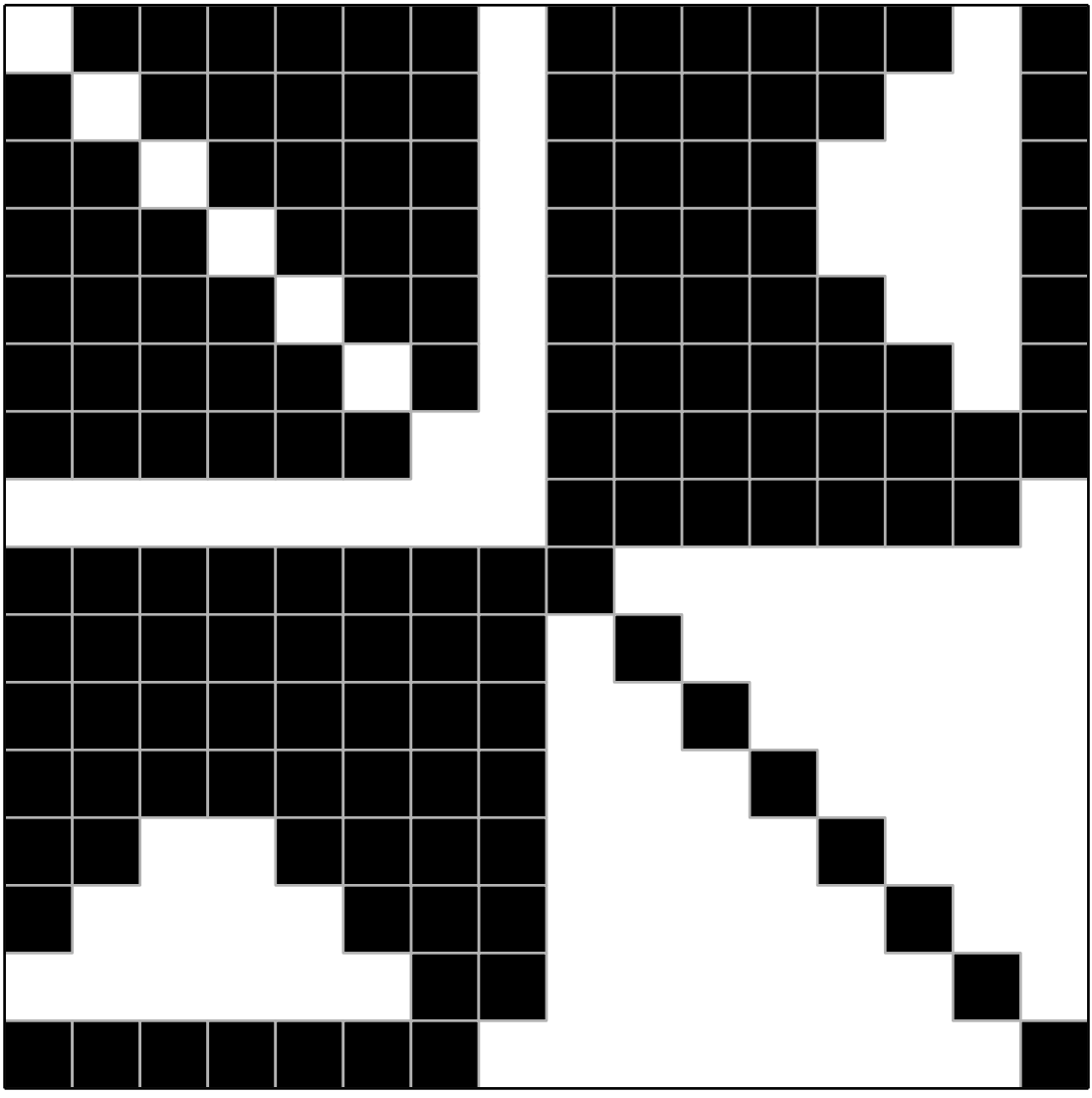
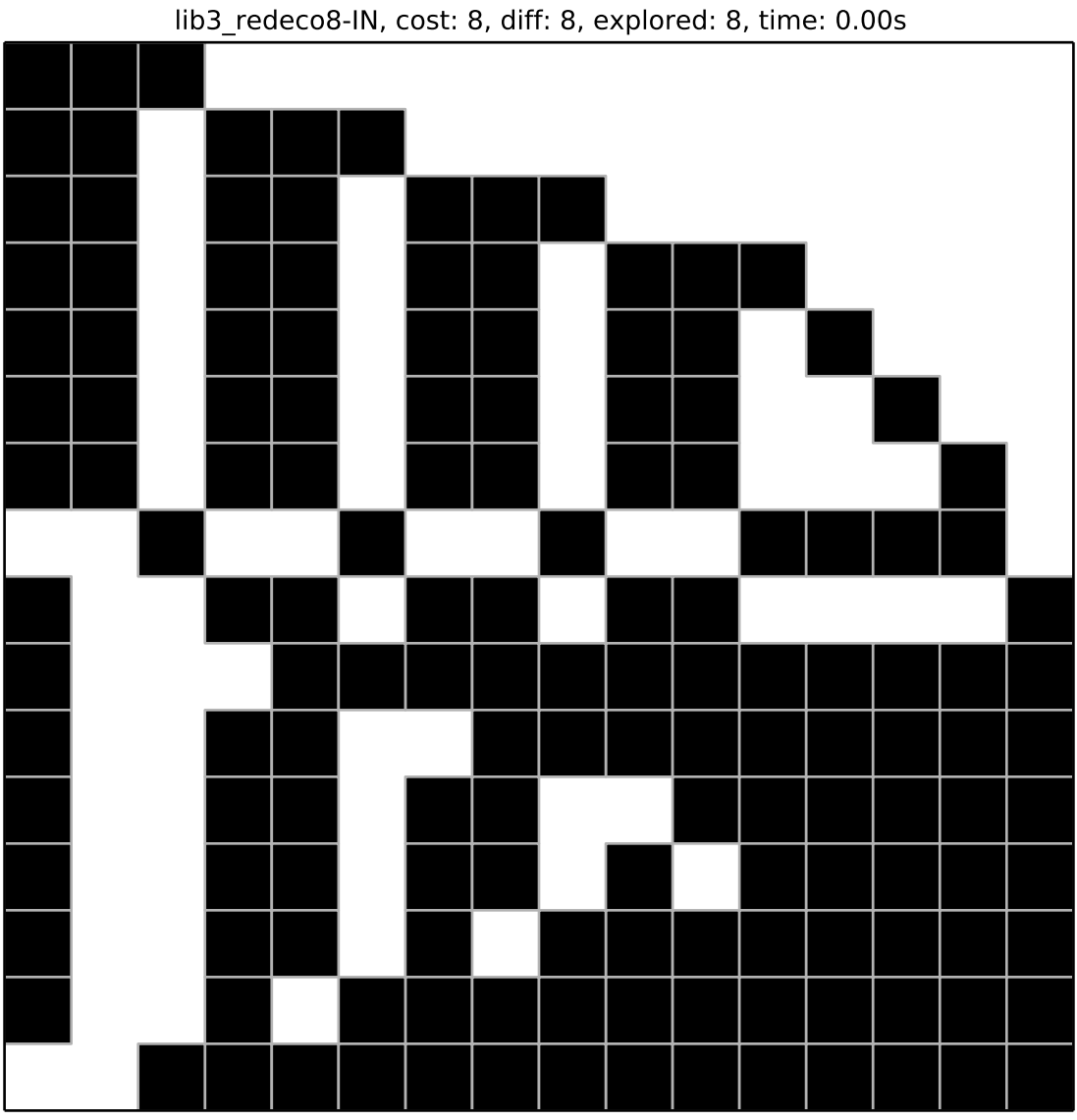
lib3_redeco8-IN 16x16 (152) con: 8, var: 8

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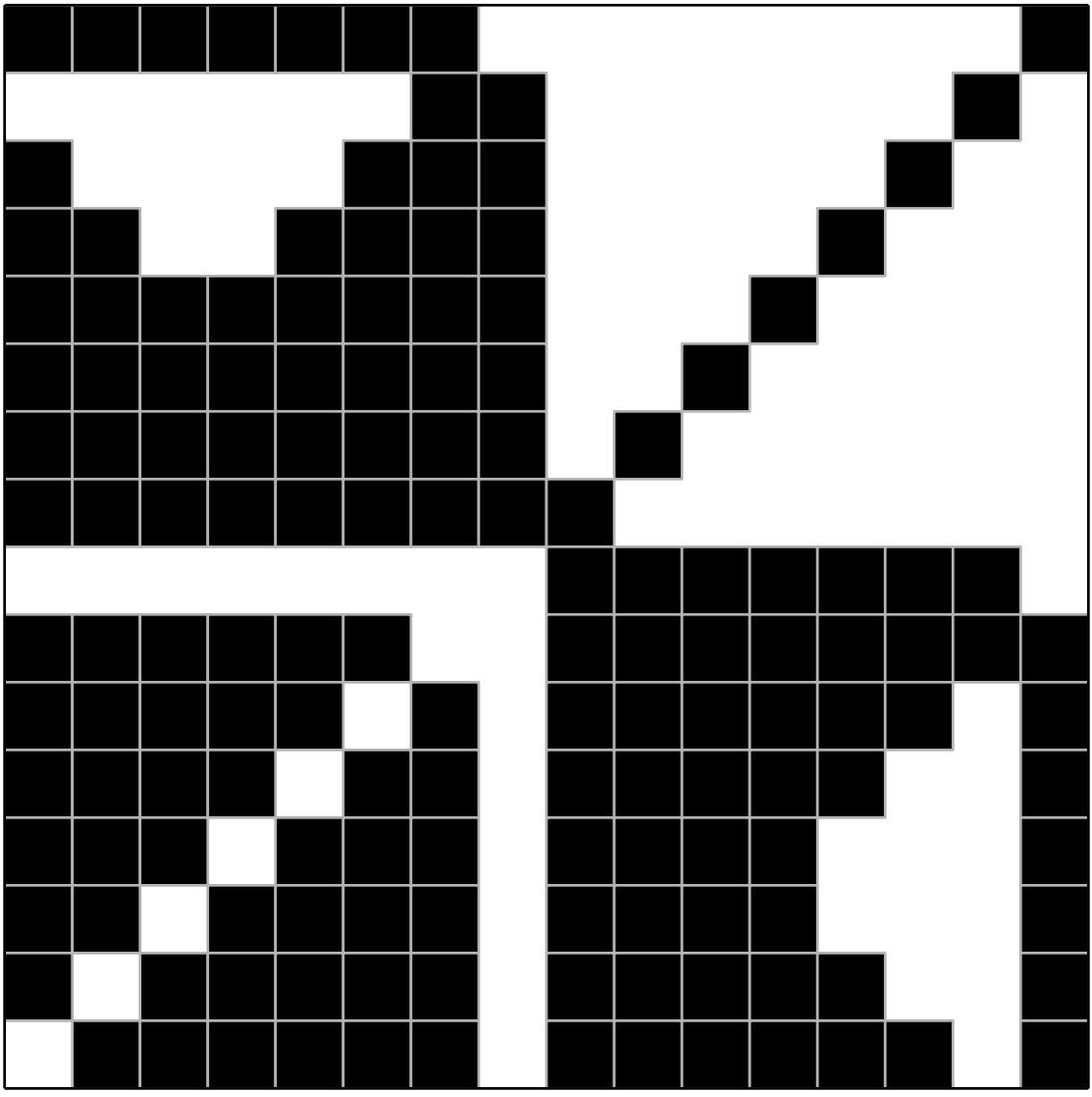
lib3_redeco8-RE 16x16 (152) con: 8, var: 8



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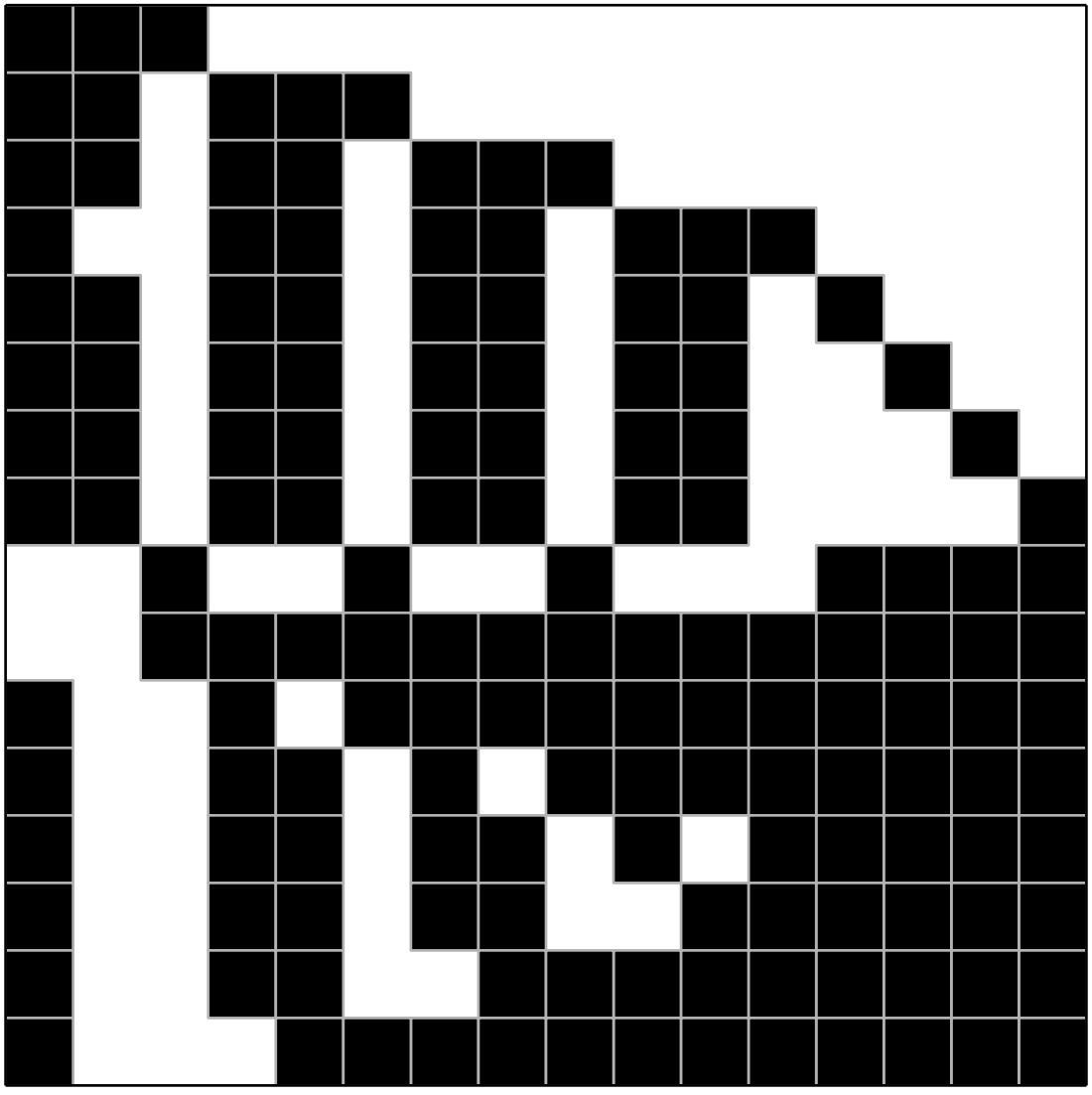
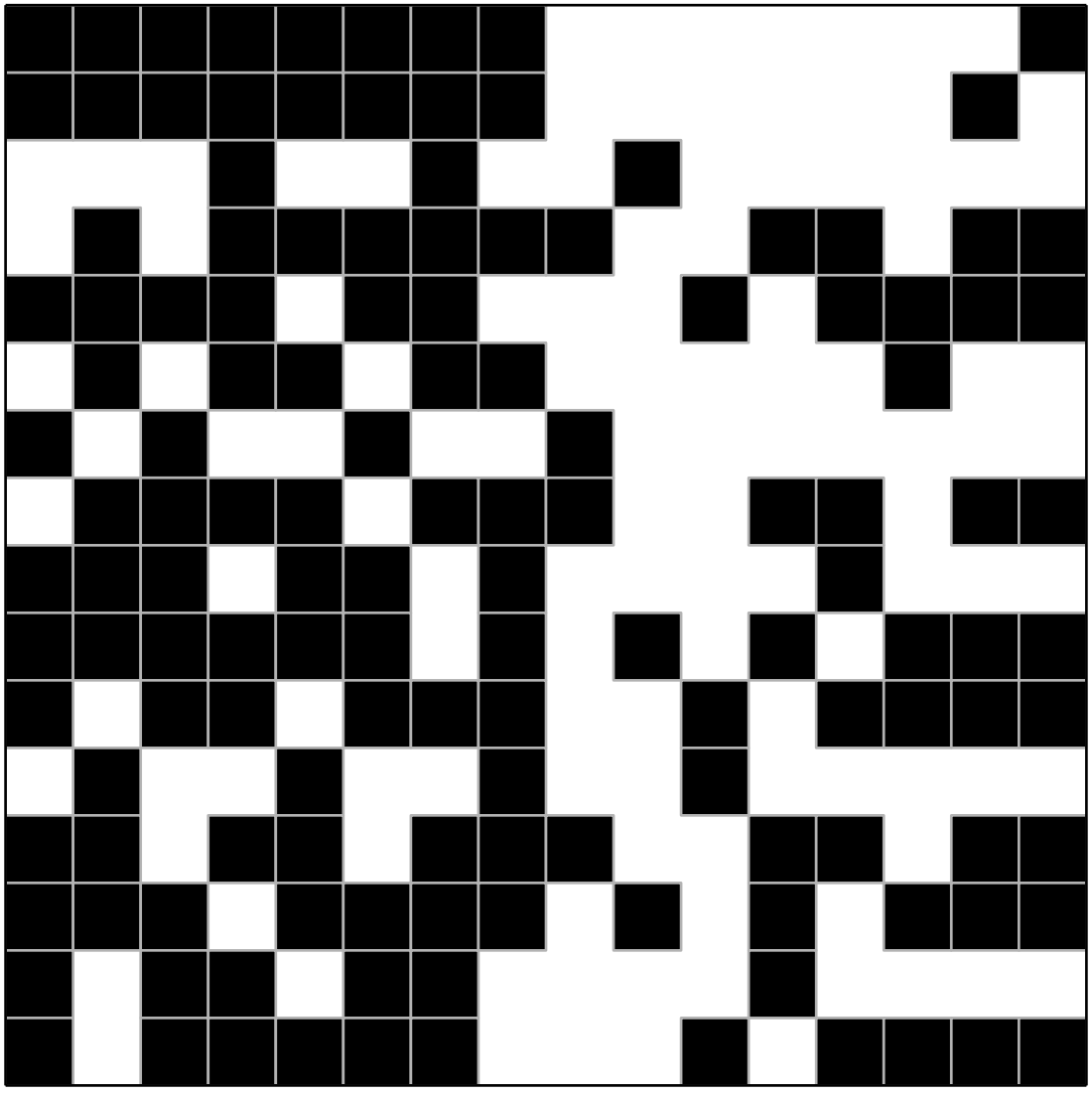
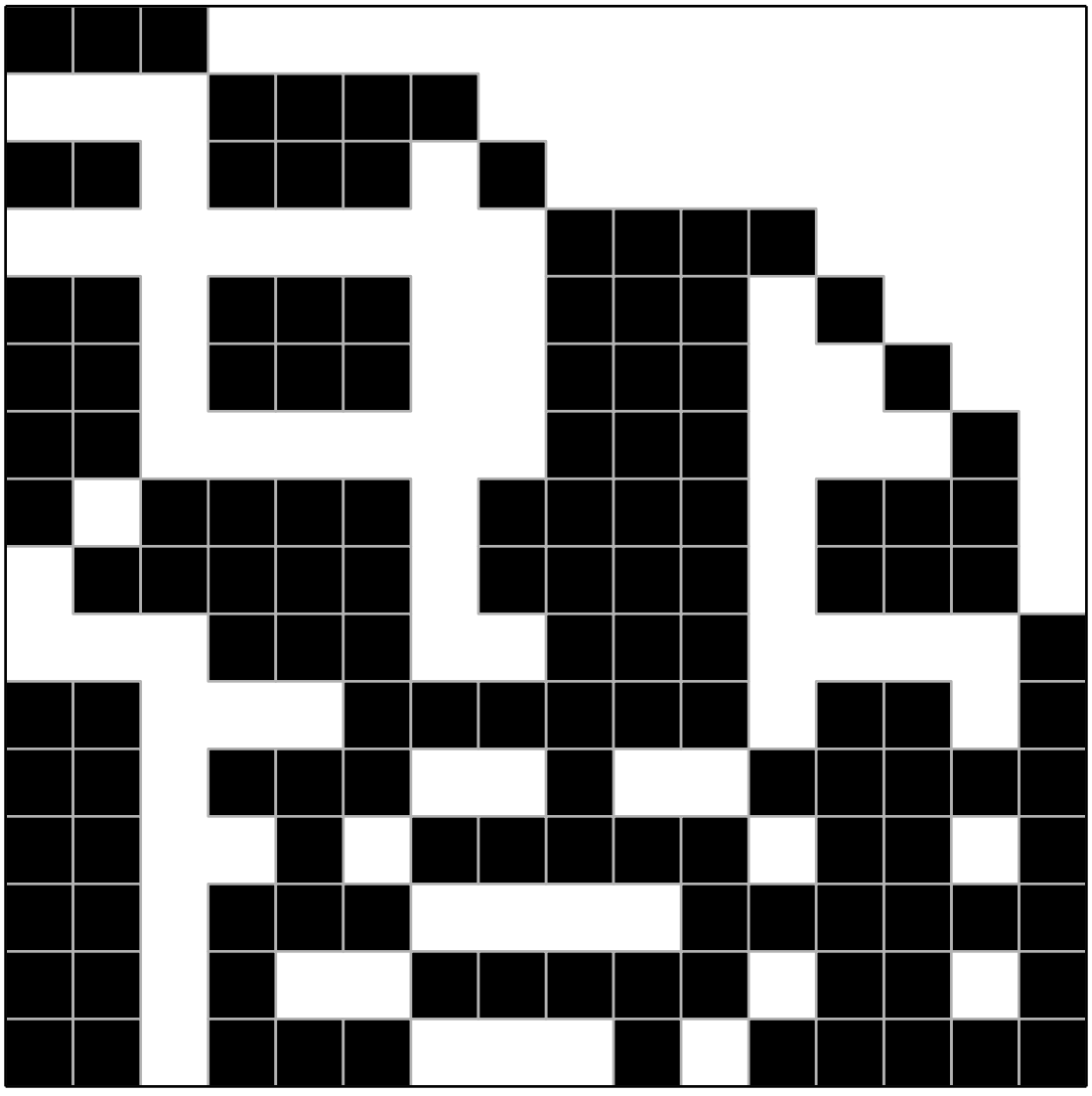


lib3_rouillerrobot-00 16x16 (138) con: 8, var: 8

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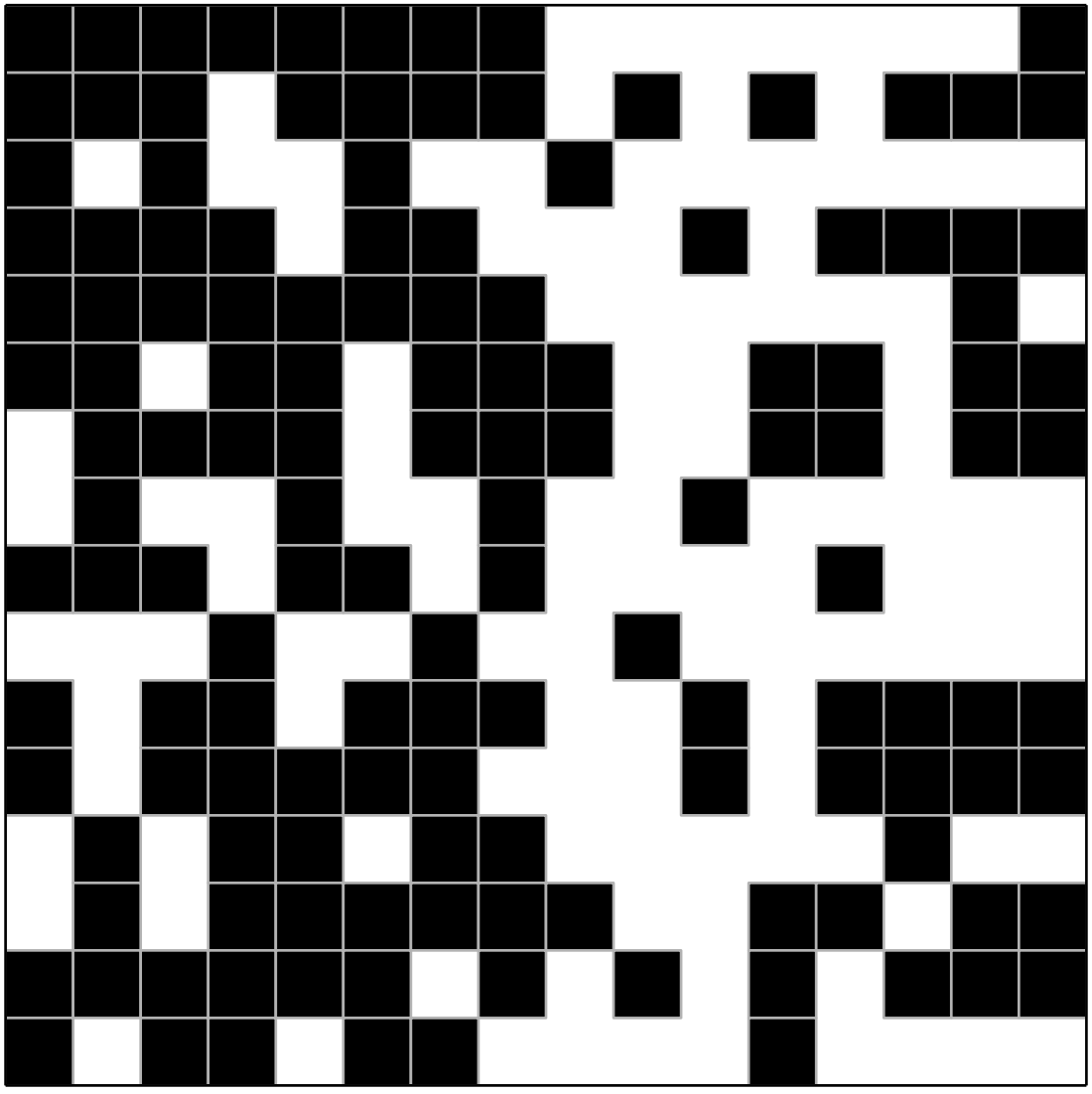
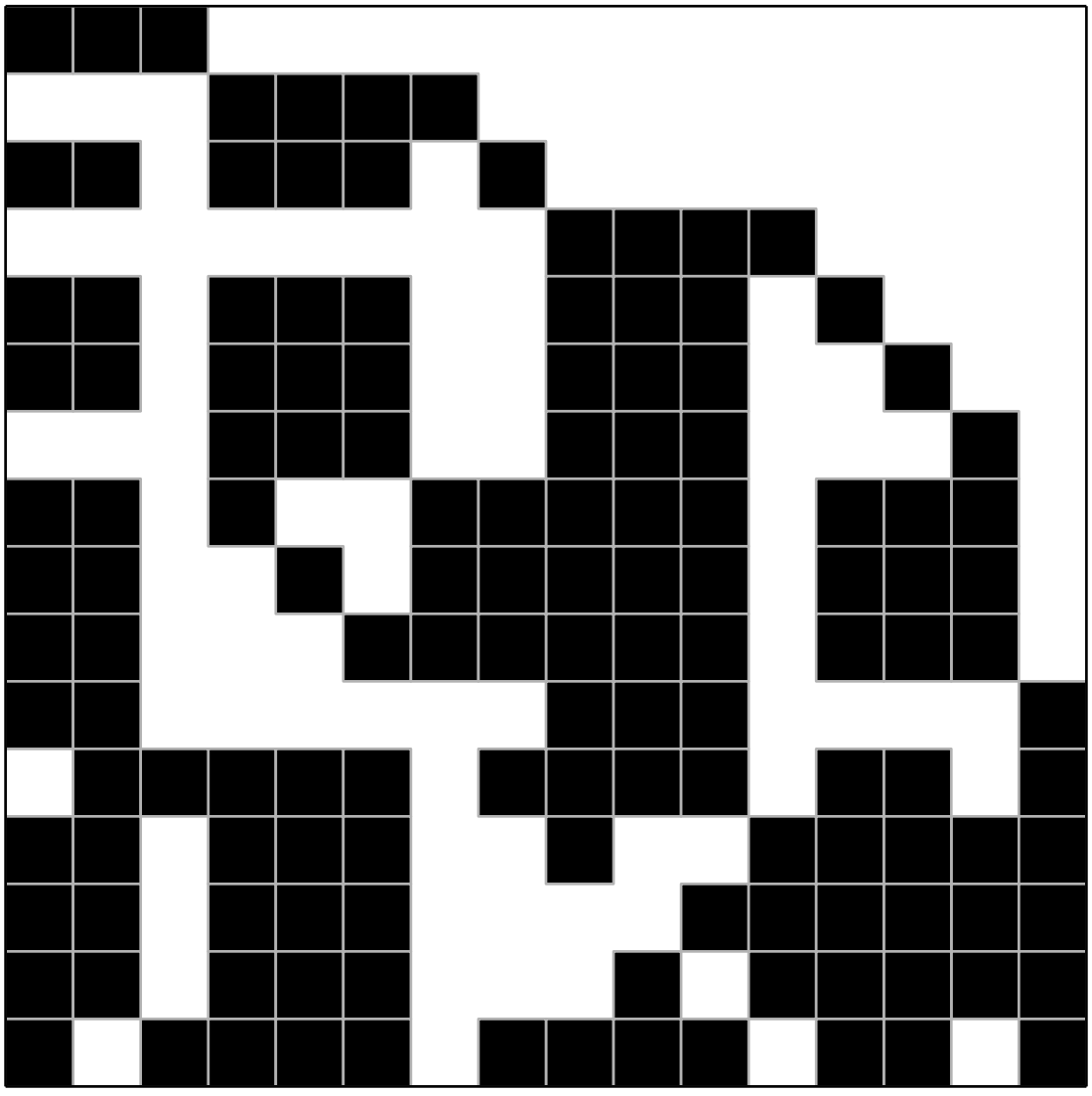
lib3_rouillerrobot-01 16x16 (138) con: 8, var: 8

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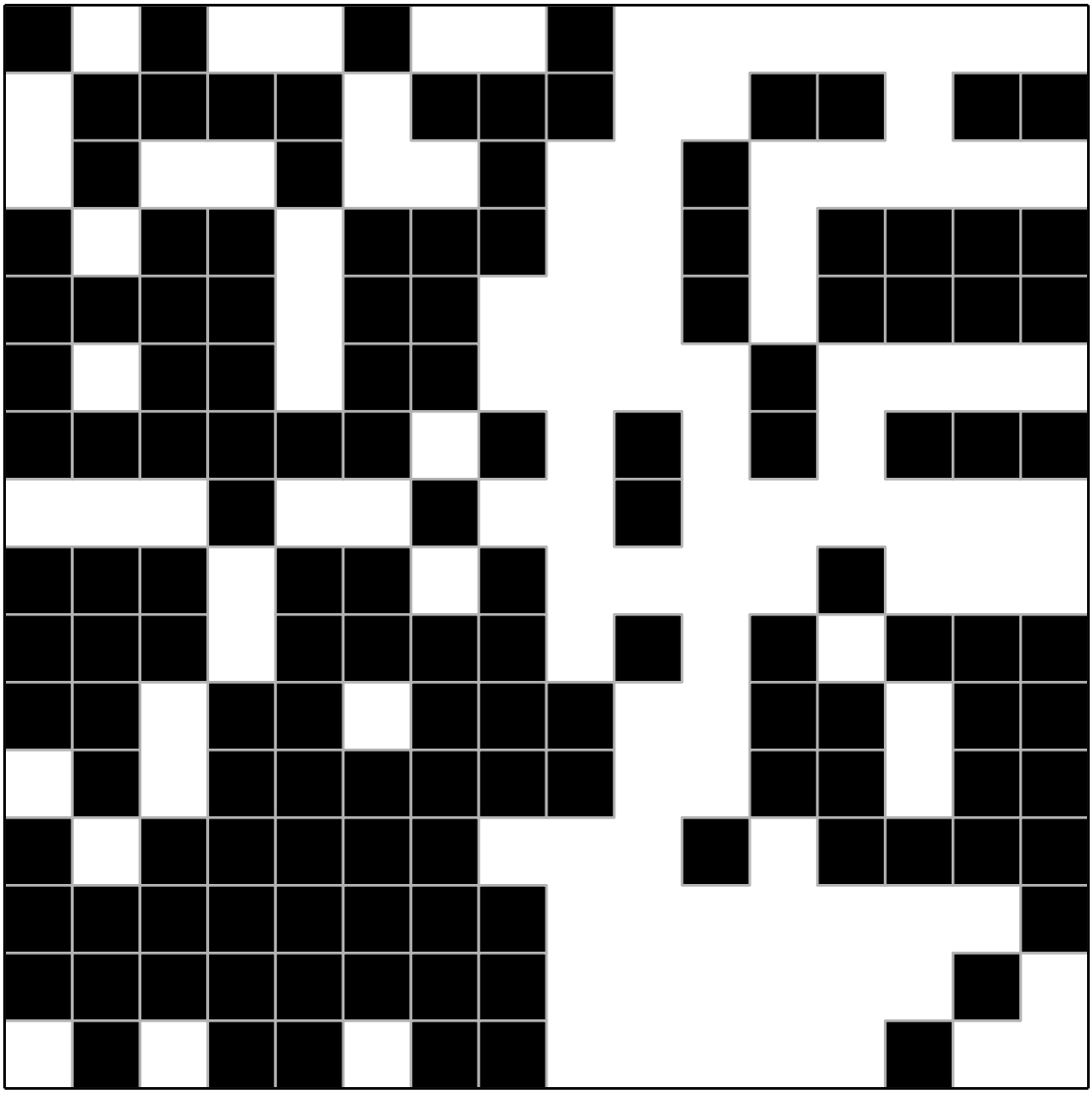
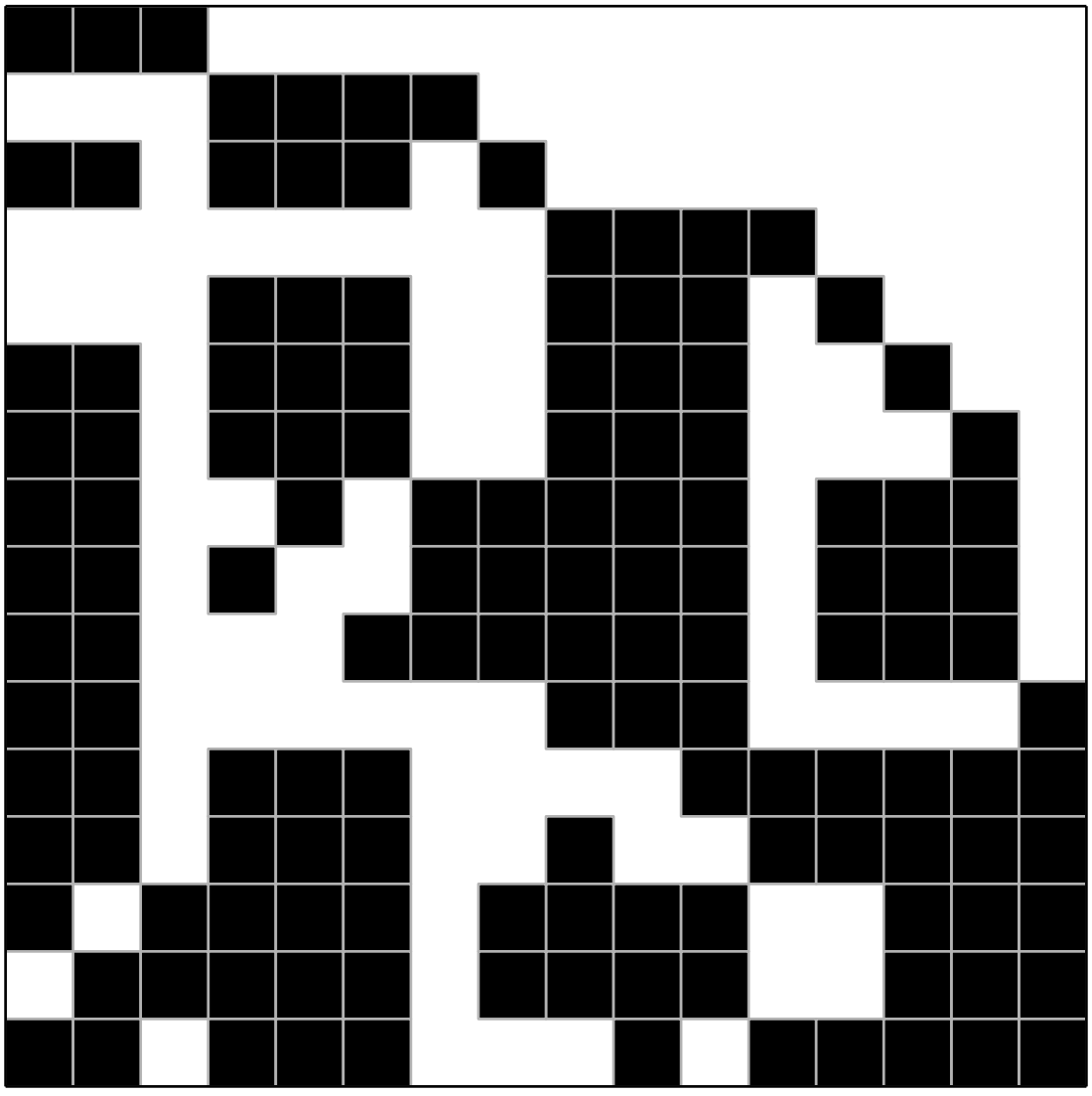
lib3_rouillerrobot-02 16x16 (138) con: 8, var: 8

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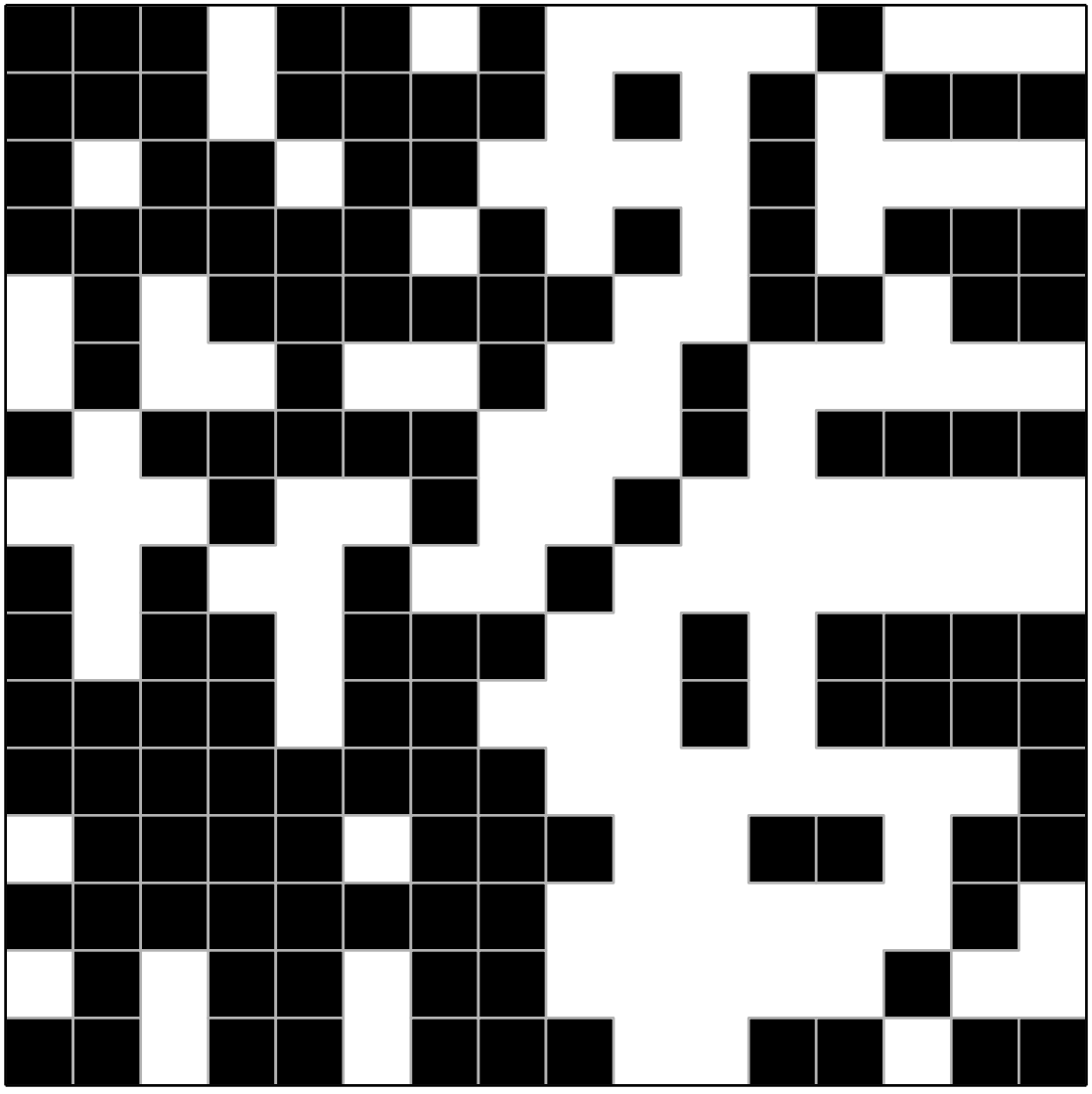
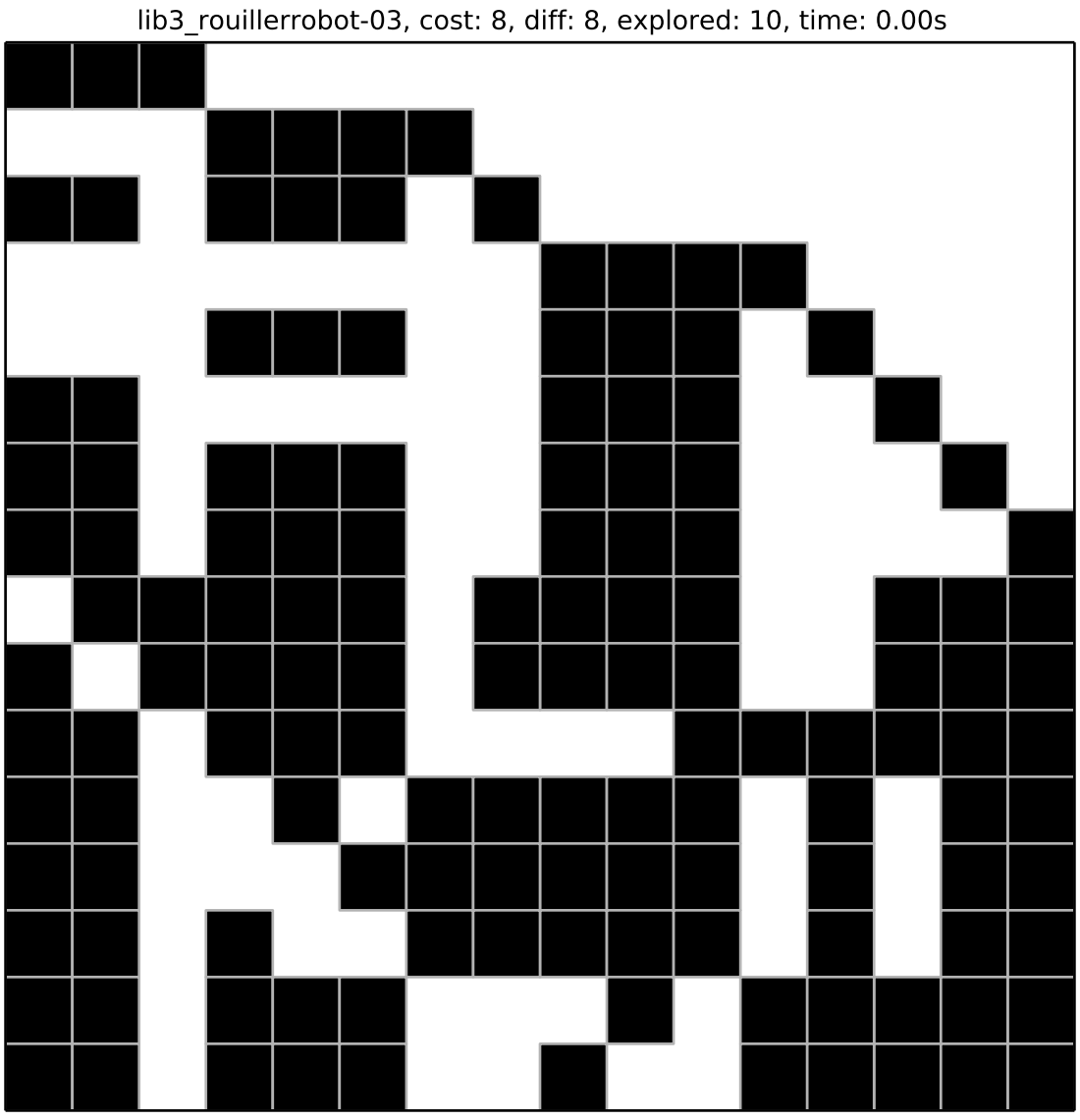
lib3_rouillerrobot-03 16x16 (138) con: 8, var: 8

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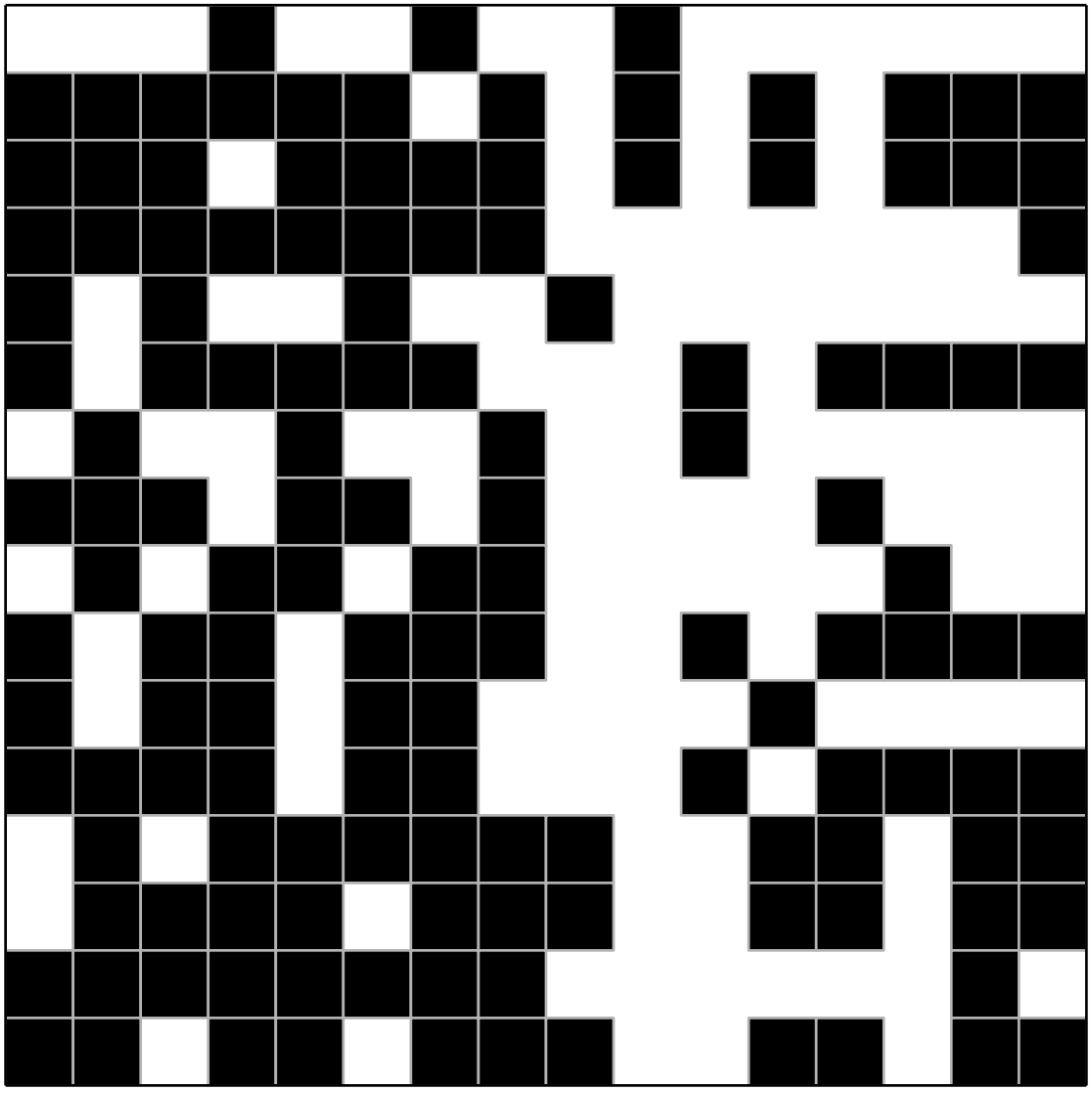
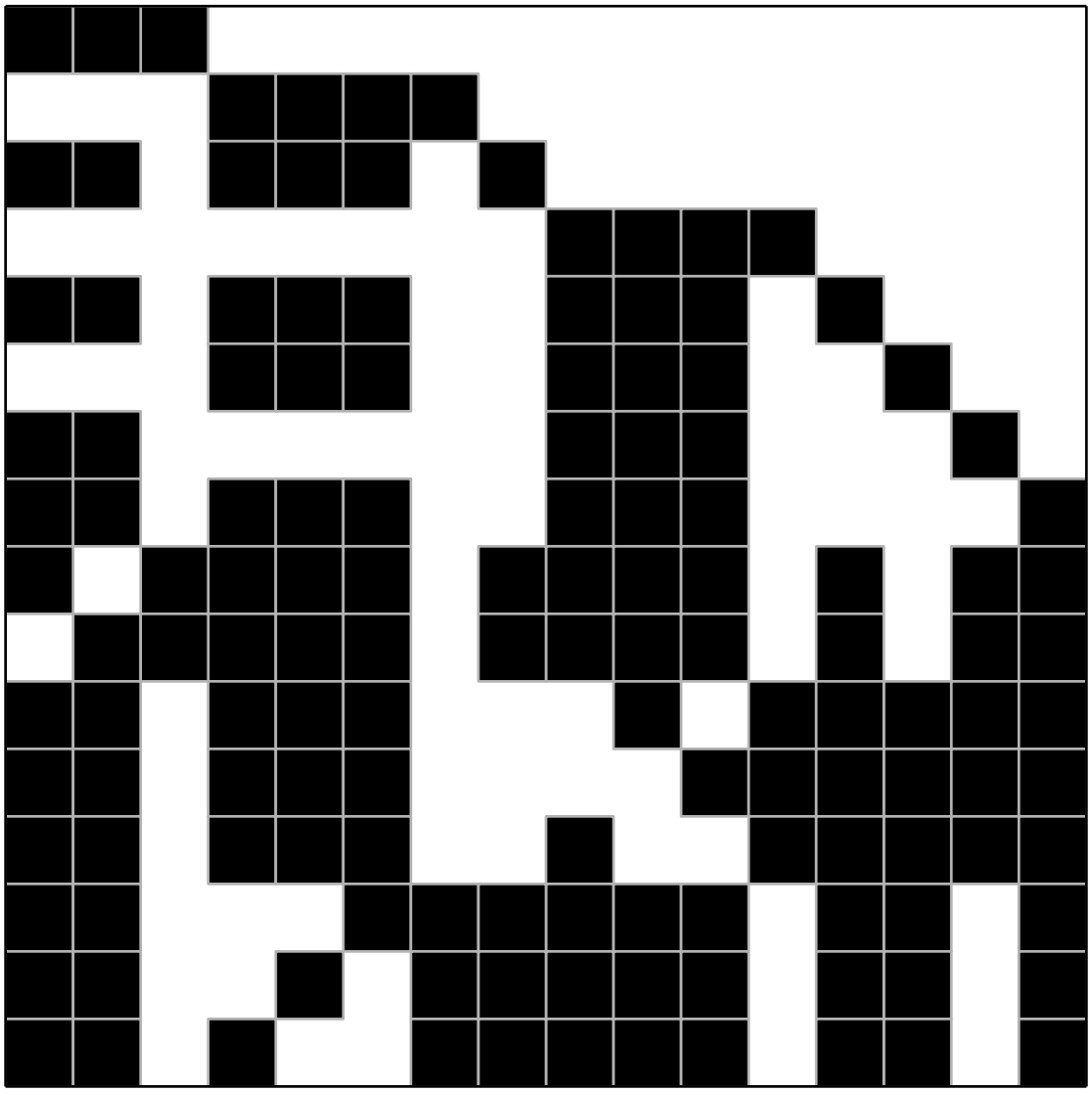
lib3_rouillerrobot-04 16x16 (138) con: 8, var: 8

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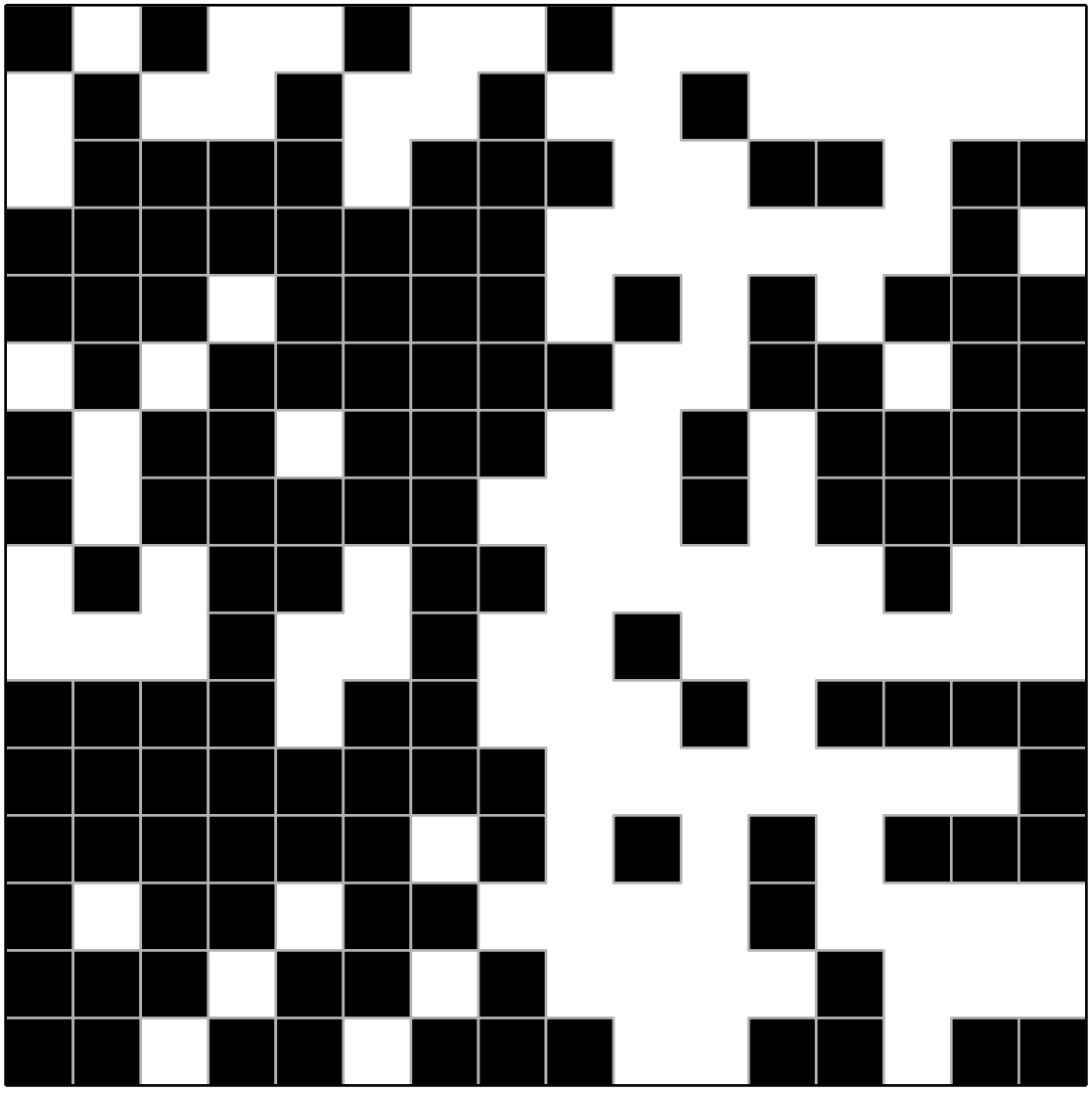
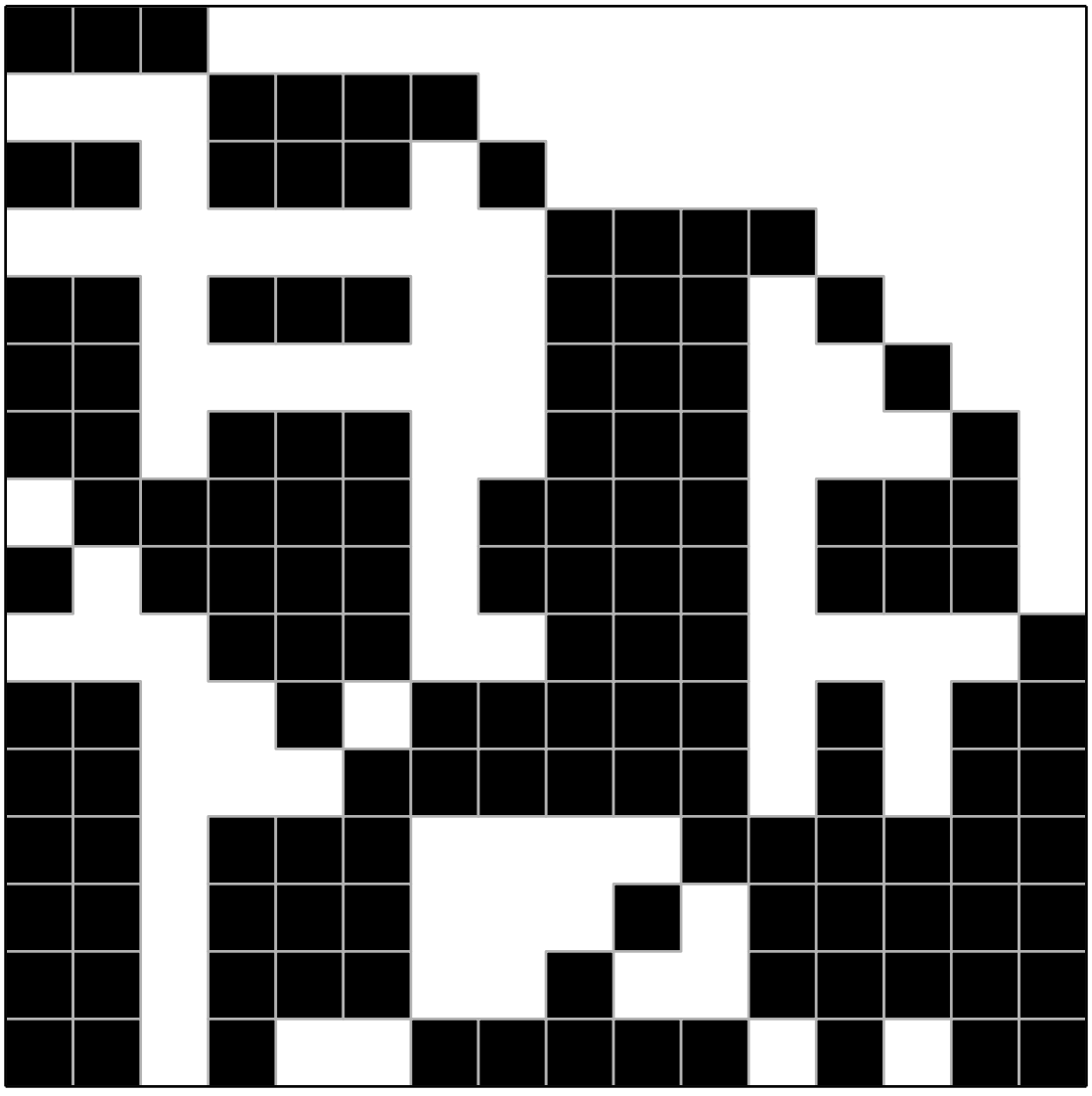
lib3_rouillerrobot-05 16x16 (138) con: 8, var: 8

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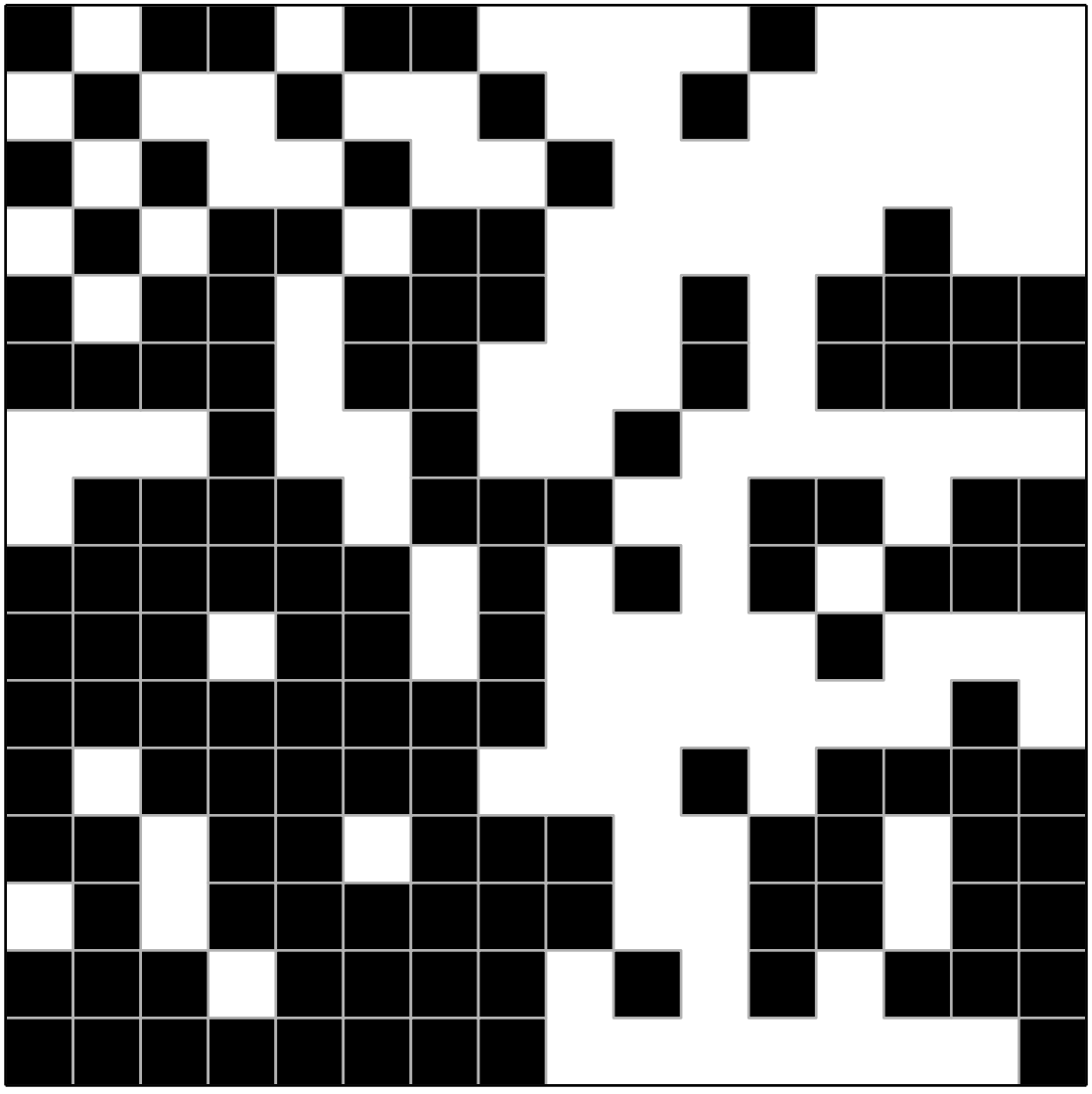
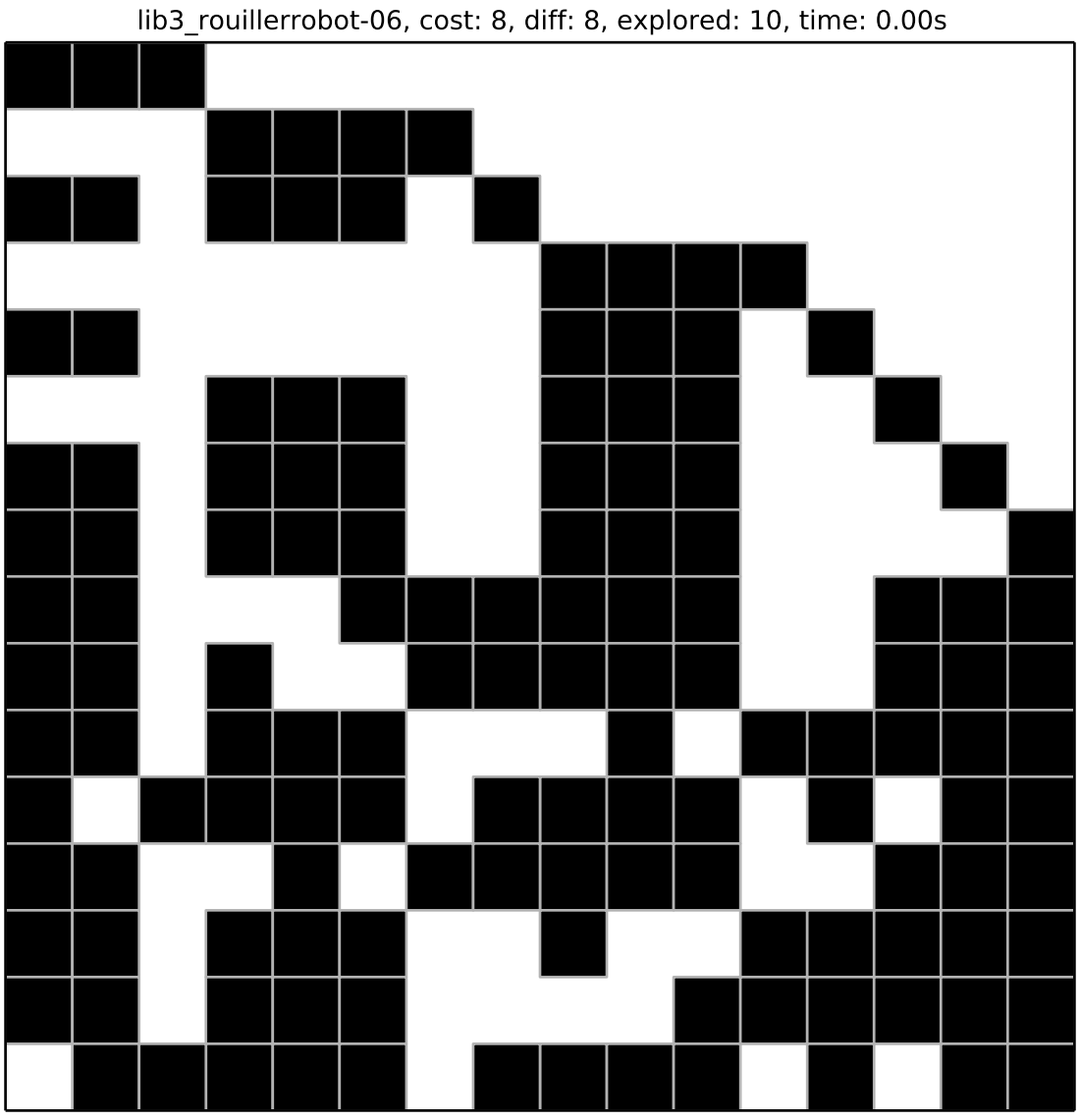
lib3_rouillerrobot-06 16x16 (138) con: 8, var: 8

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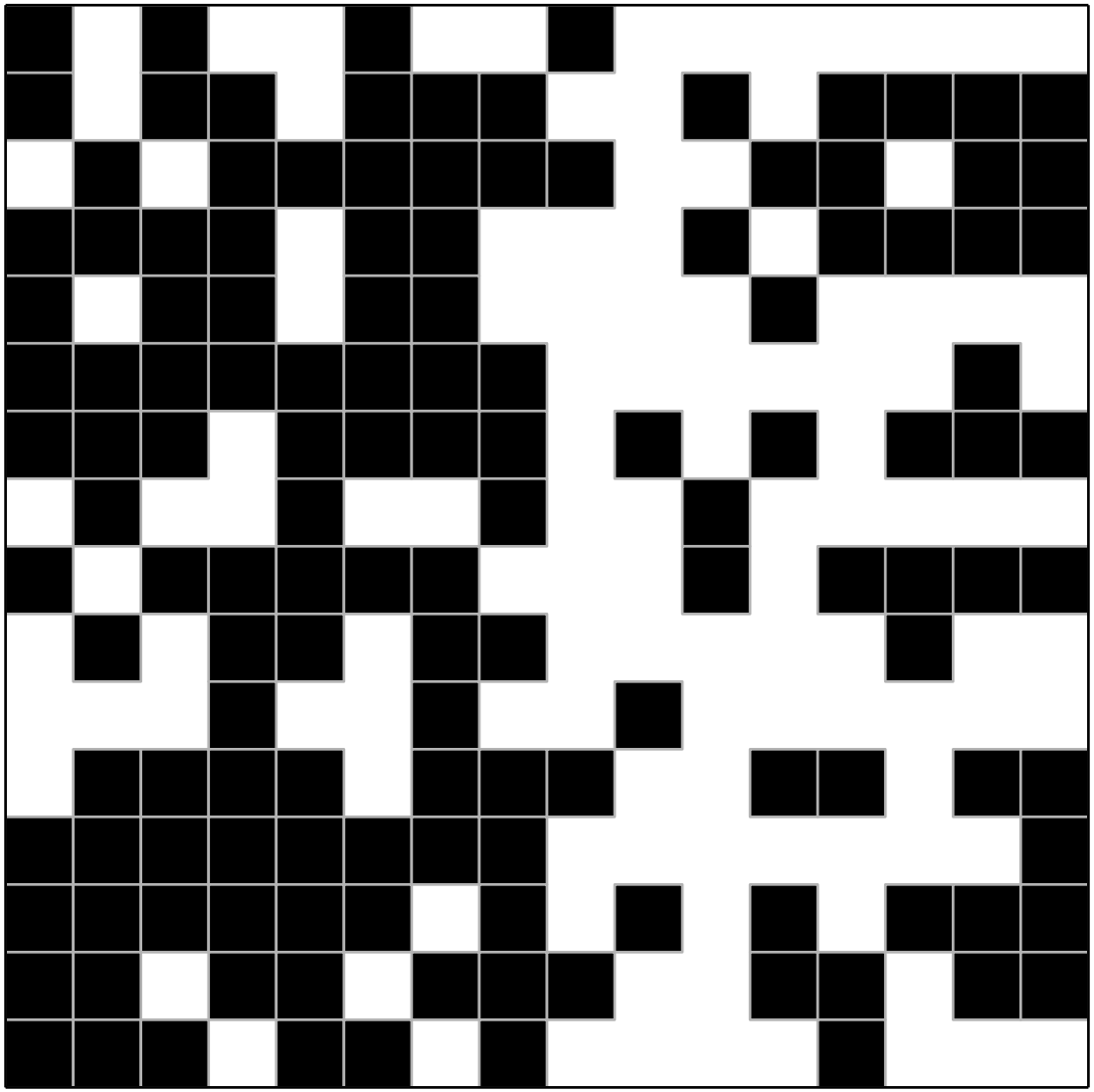
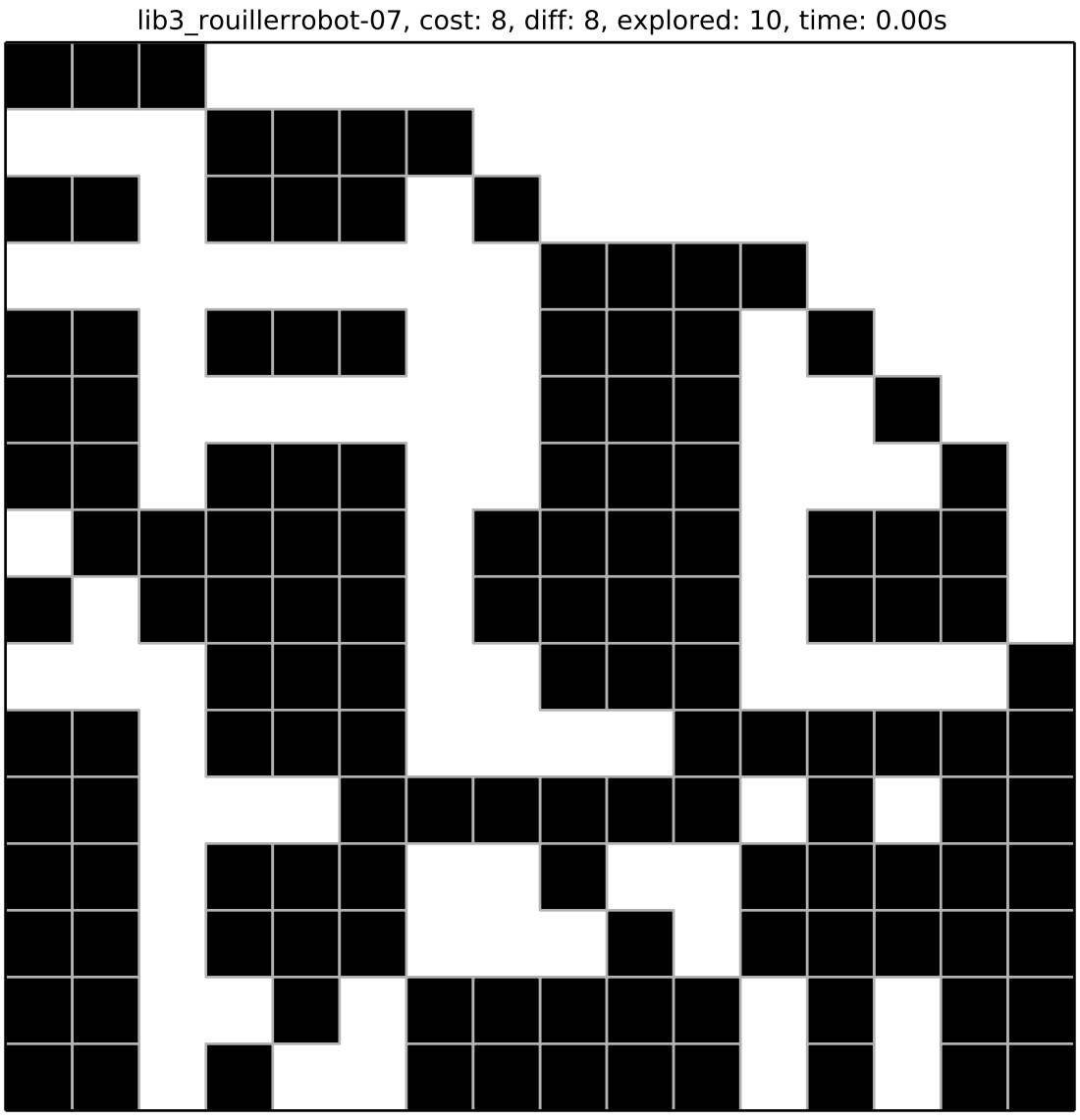
lib3_rouillerrobot-07 16x16 (138) con: 8, var: 8

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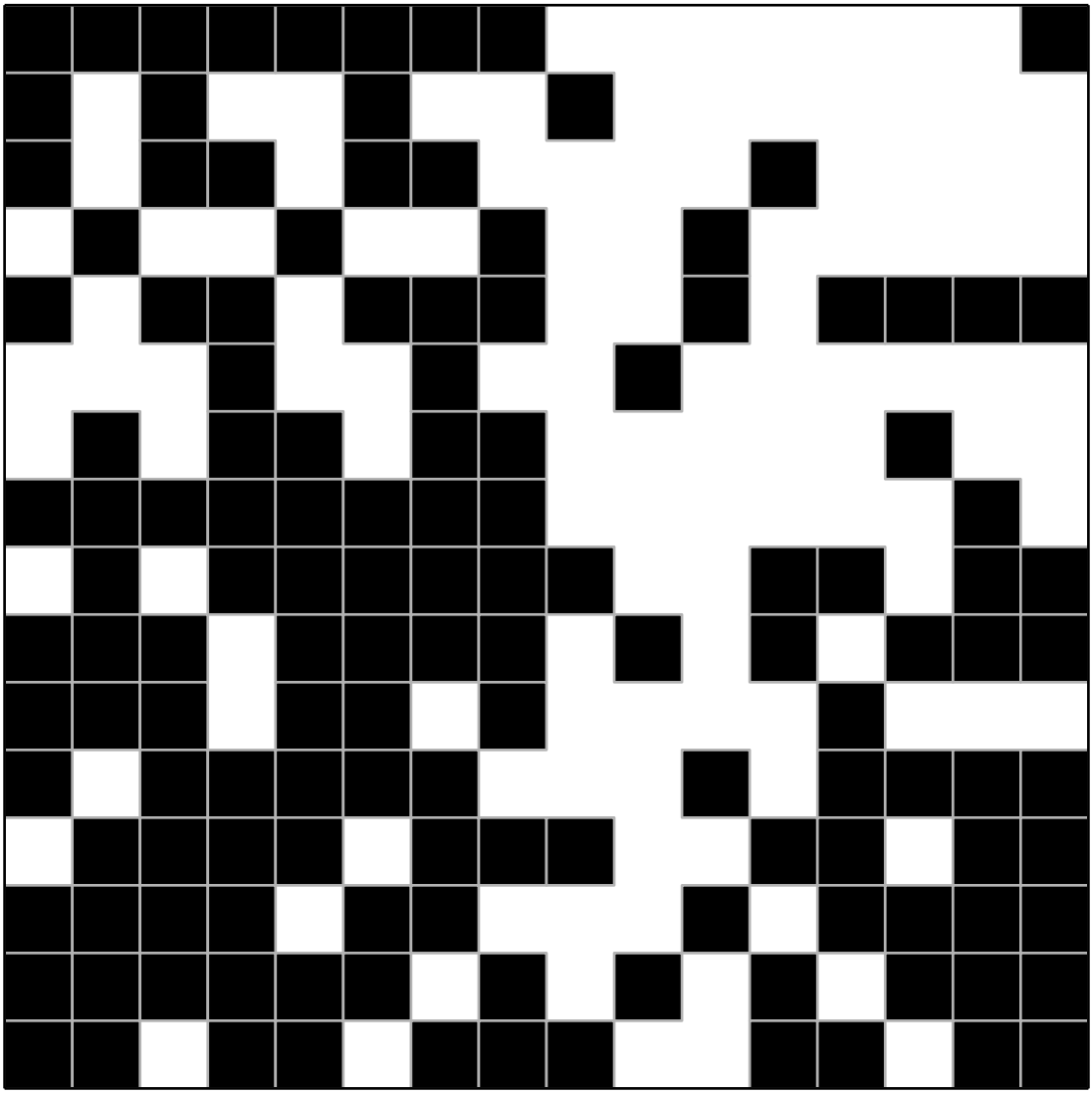
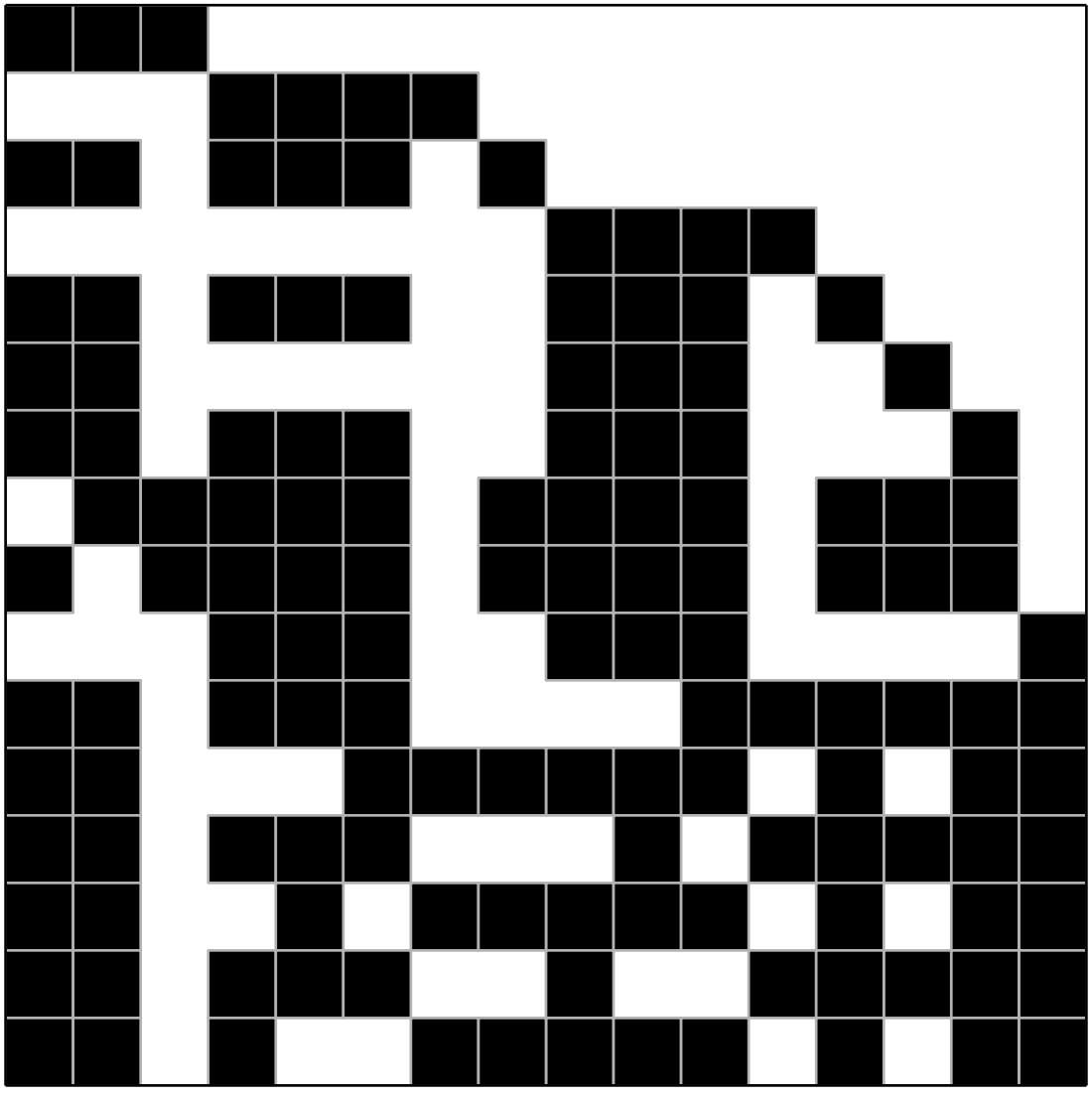
lib3_rouillerrobot-08 16x16 (138) con: 8, var: 8

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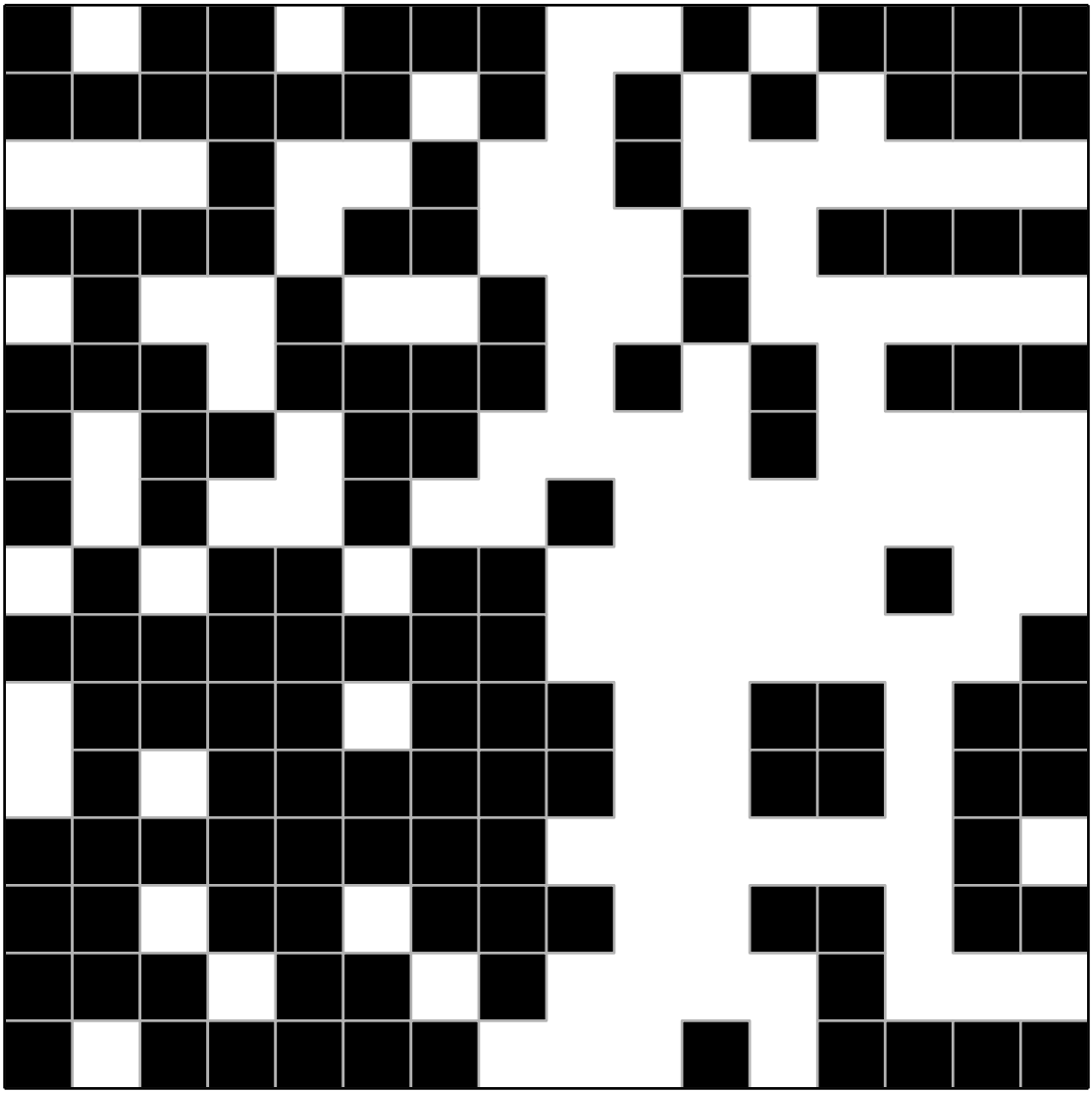
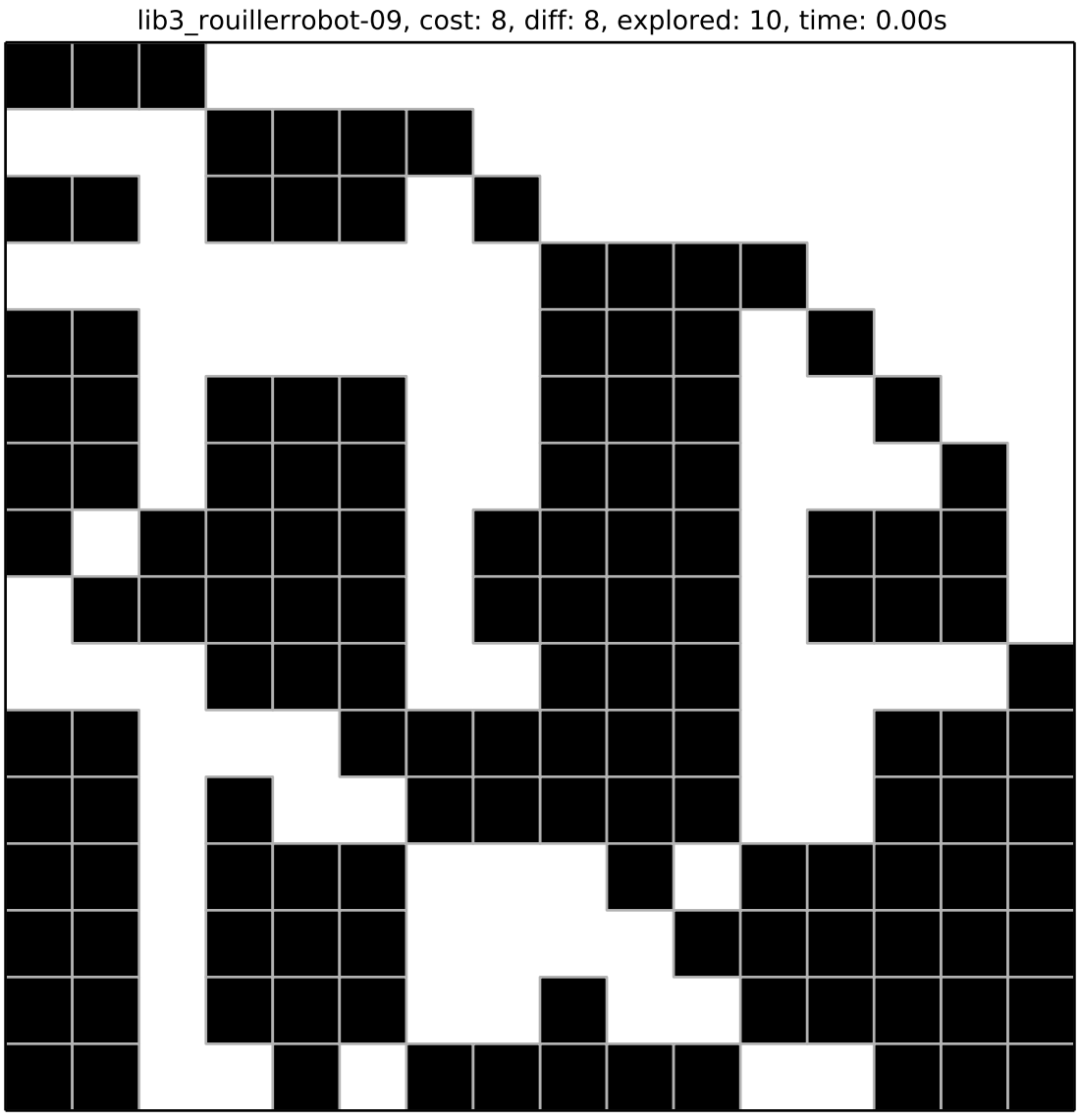
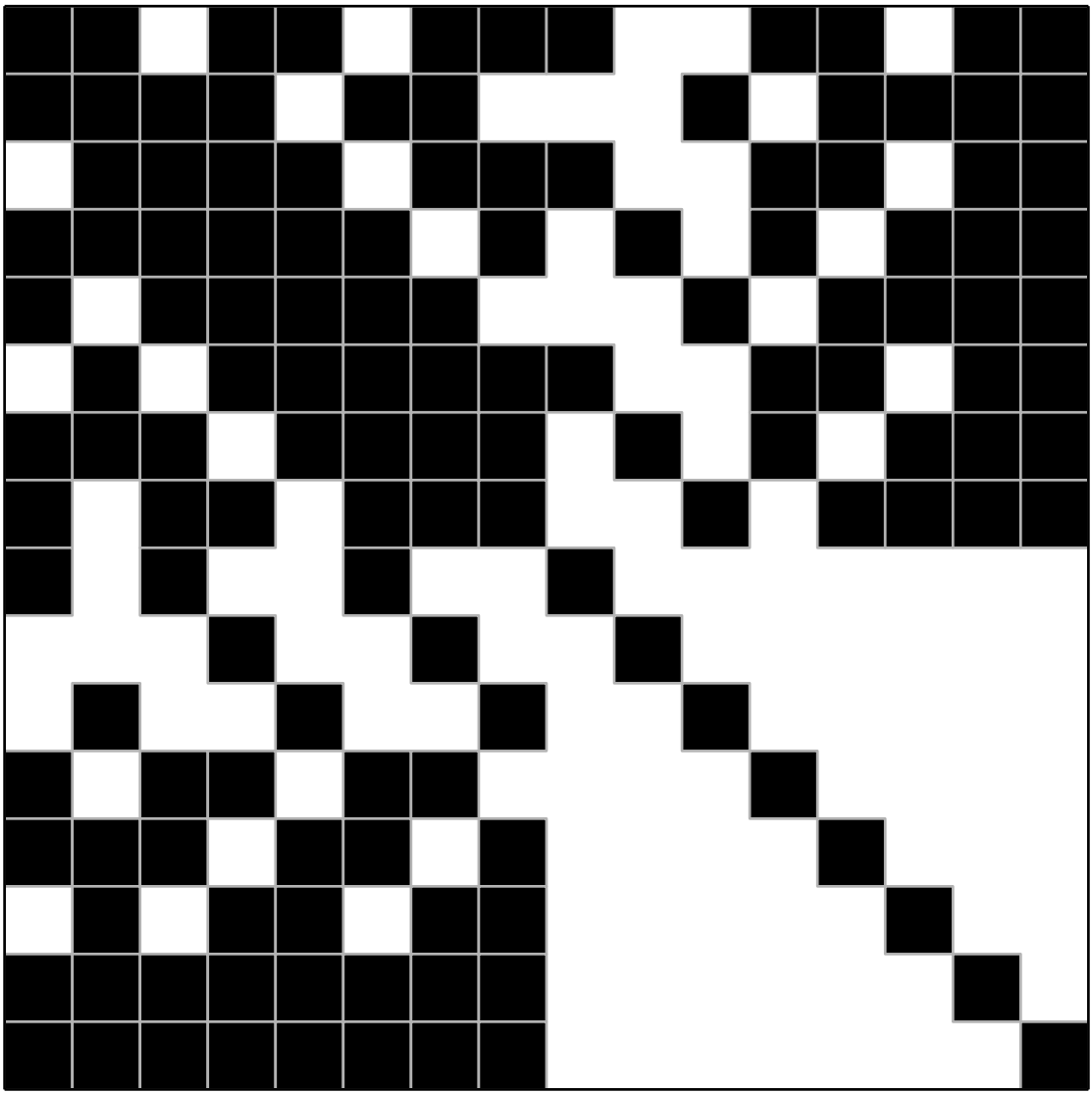
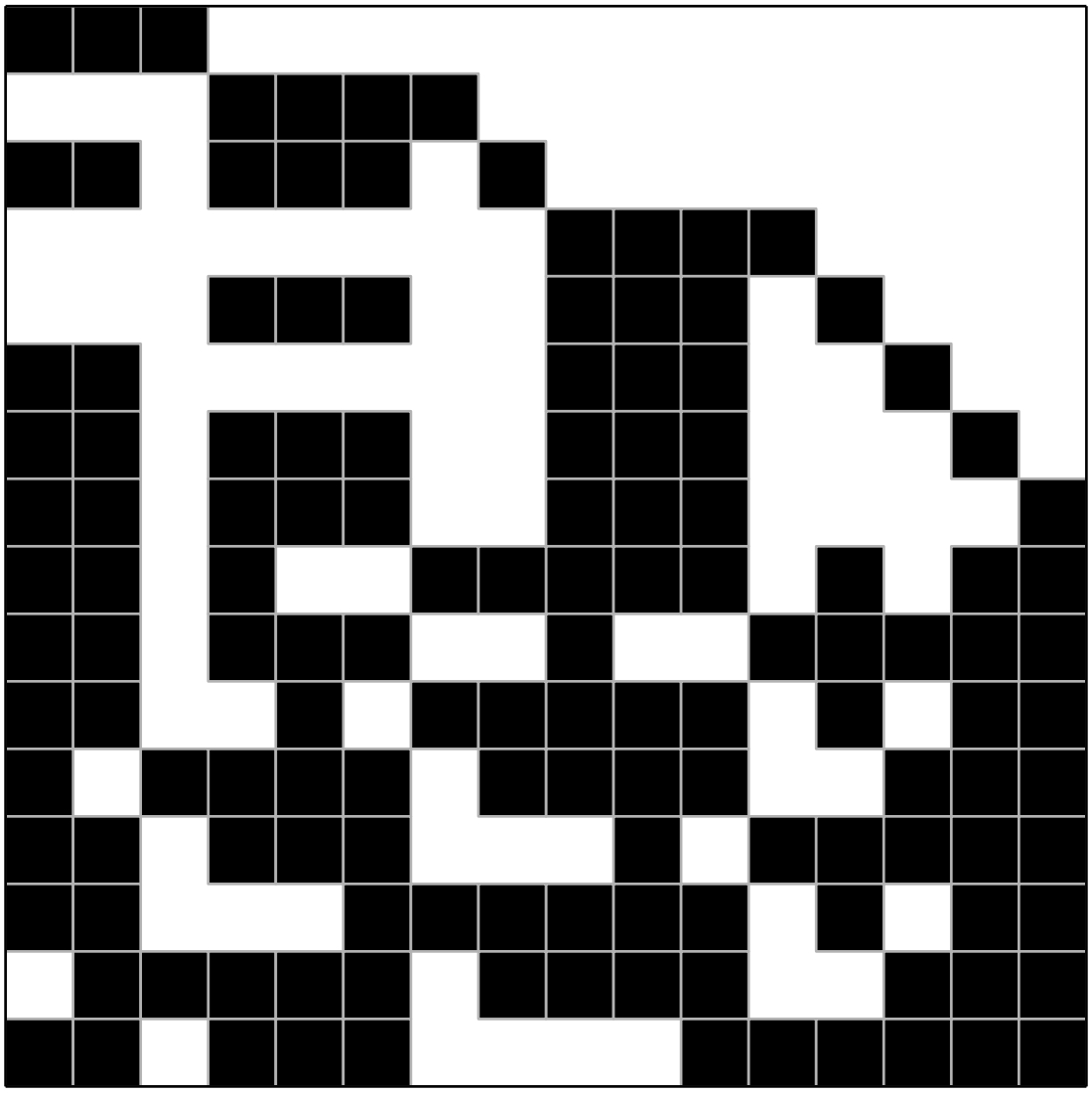
lib3_rouillerrobot-09 16x16 (138) con: 8, var: 8

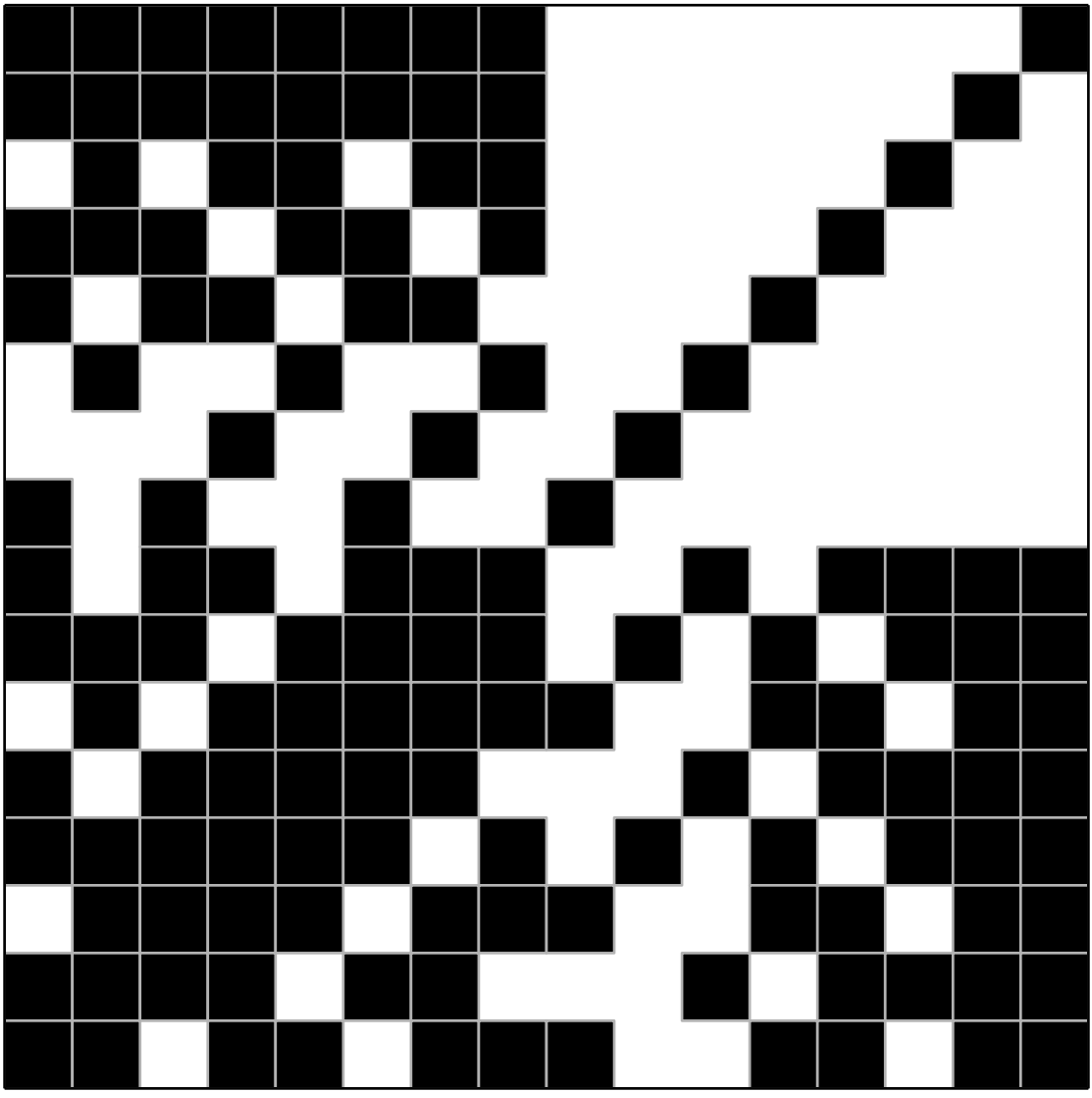


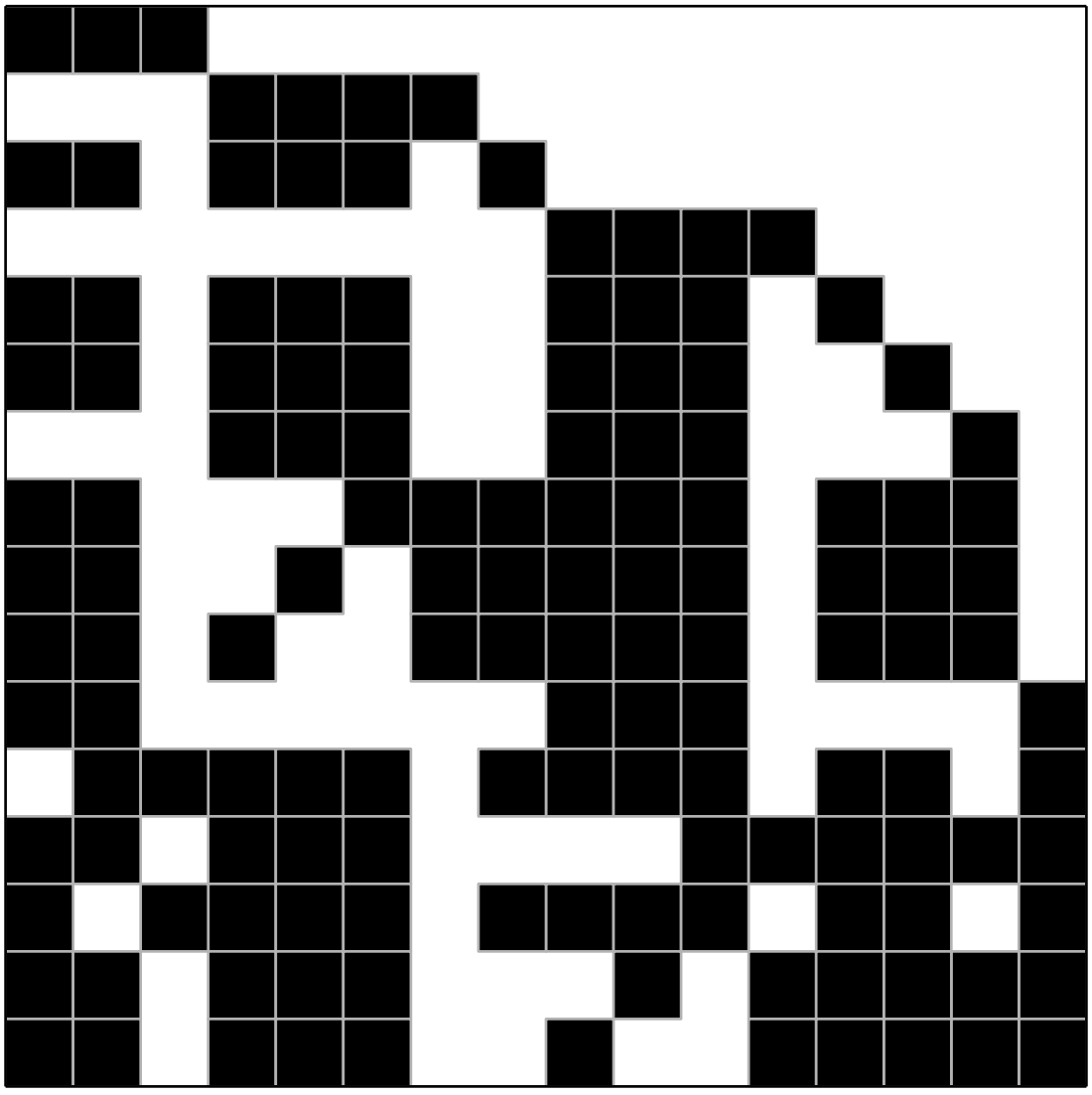

lib3_rouillerrobot-09, cost: 8, diff: 8, explored: 10, time: 0.00s


lib3_rouillerrobot-IN 16x16 (138) con: 8, var: 8

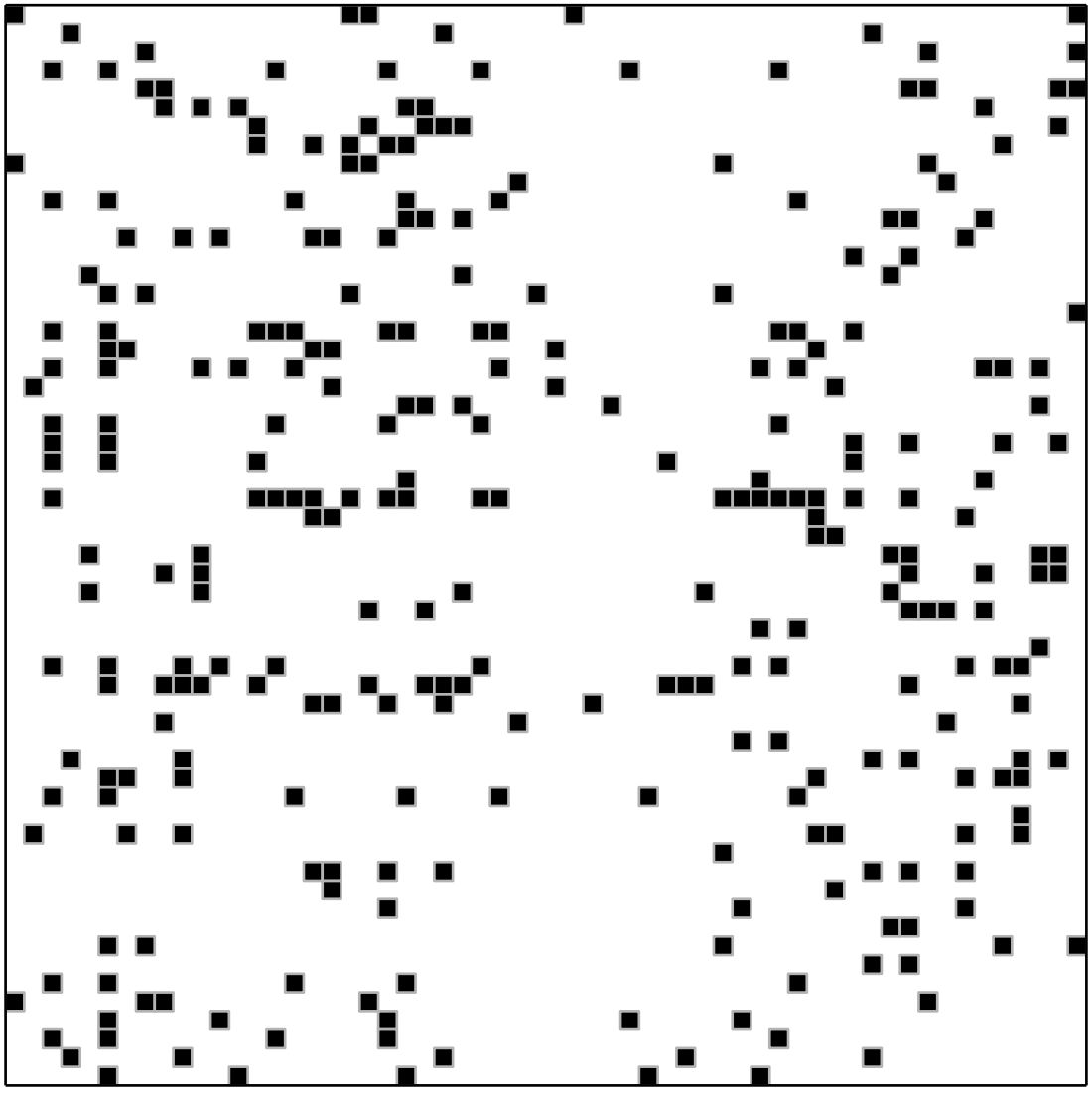

lib3_rouillerrobot-IN, cost: 8, diff: 8, explored: 10, time: 0.00s

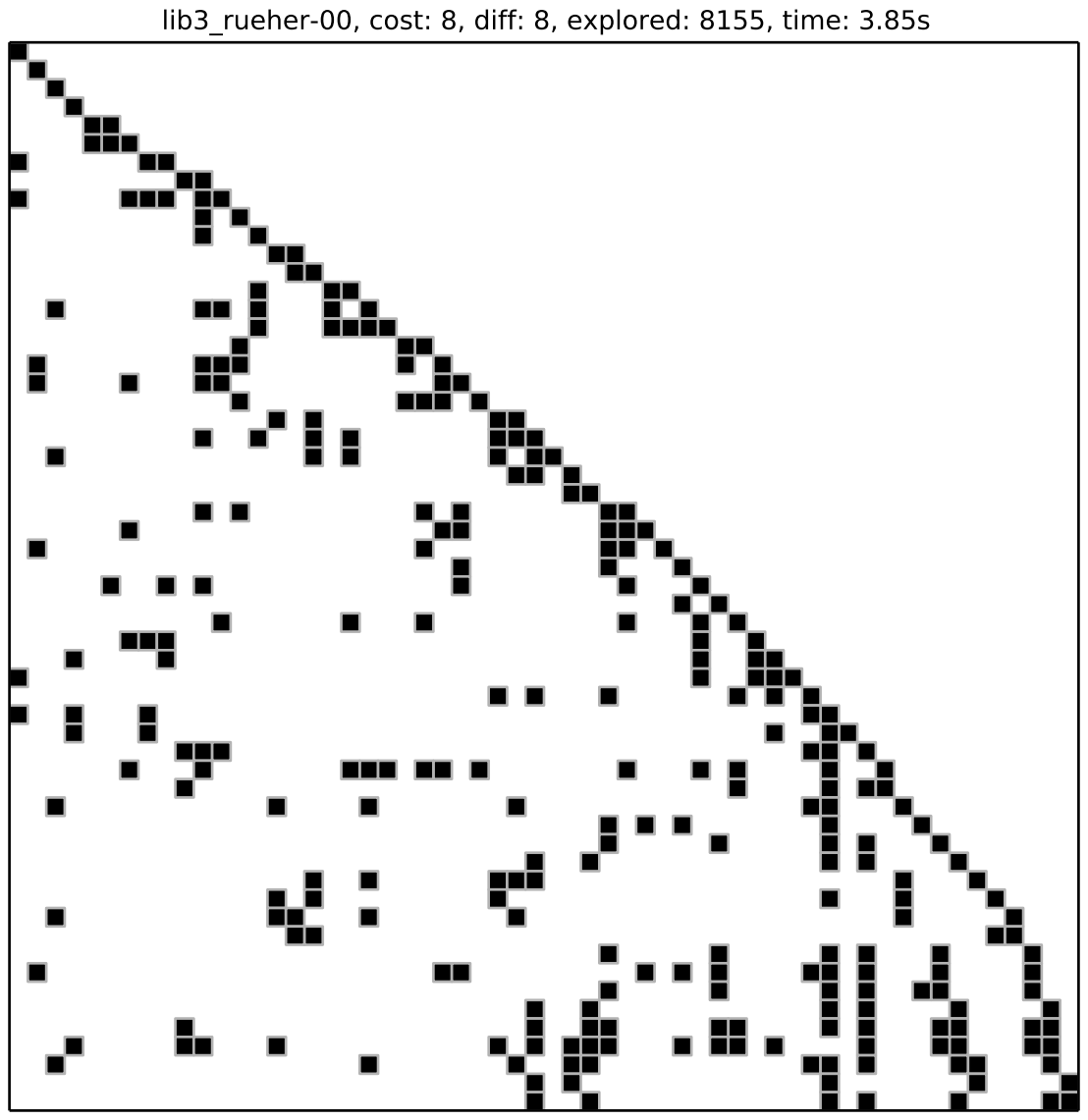
lib3_rouillerrobot-RE 16x16 (138) con: 8, var: 8



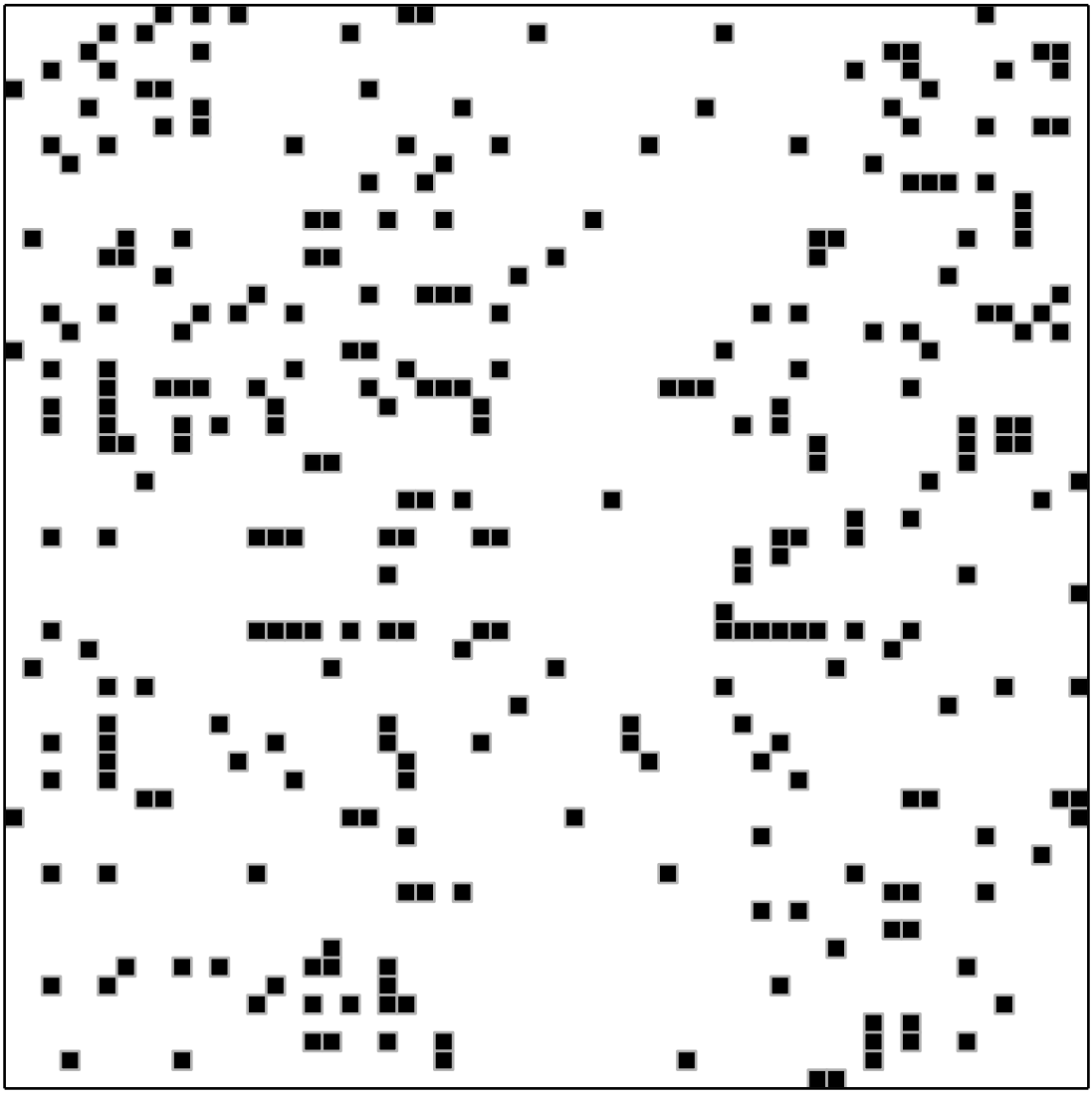

lib3_rouillerrobot-RE, cost: 8, diff: 8, explored: 10, time: 0.00s

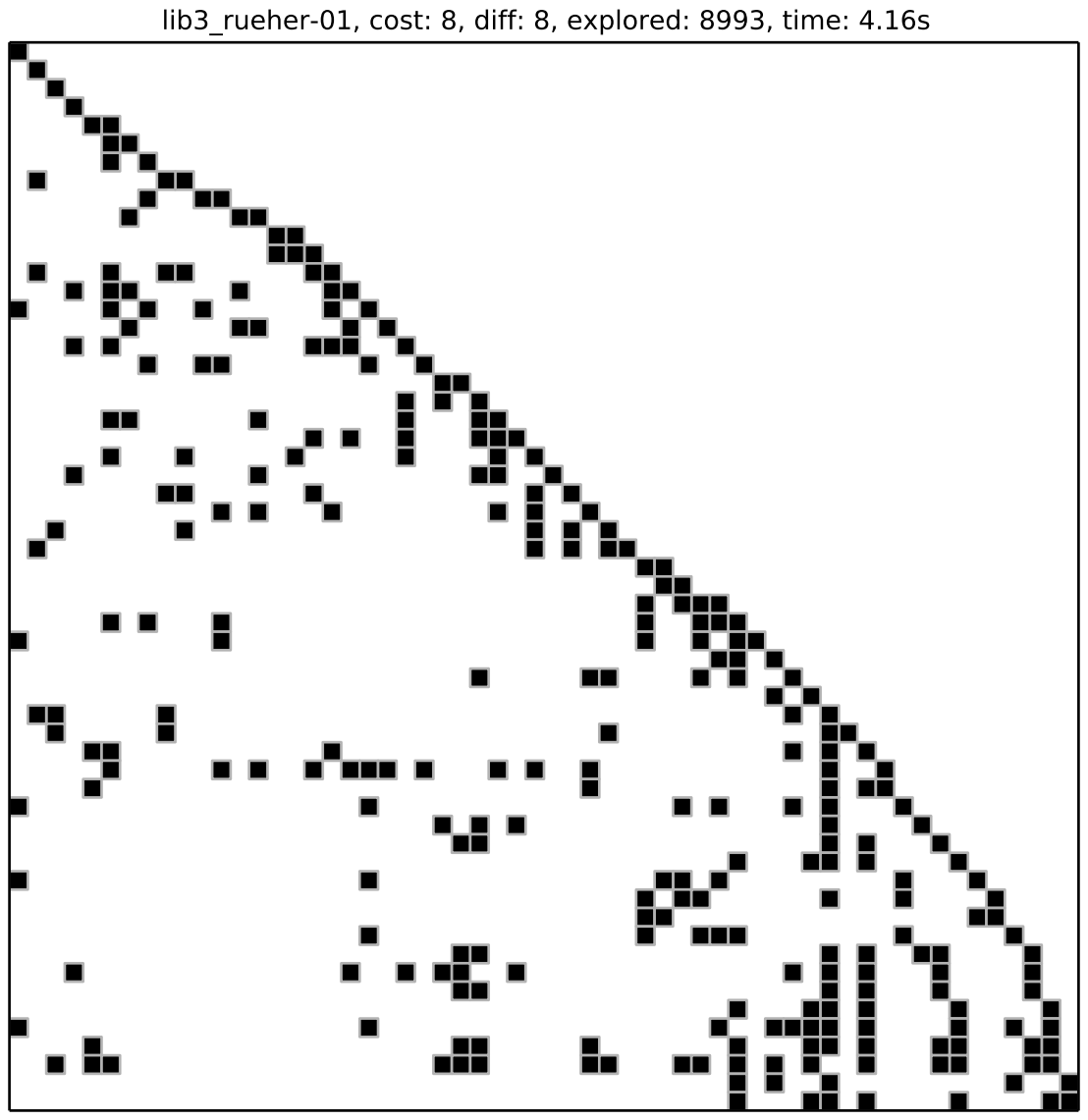
lib3_rueher-00 58x58 (302) con: 20, var: 38



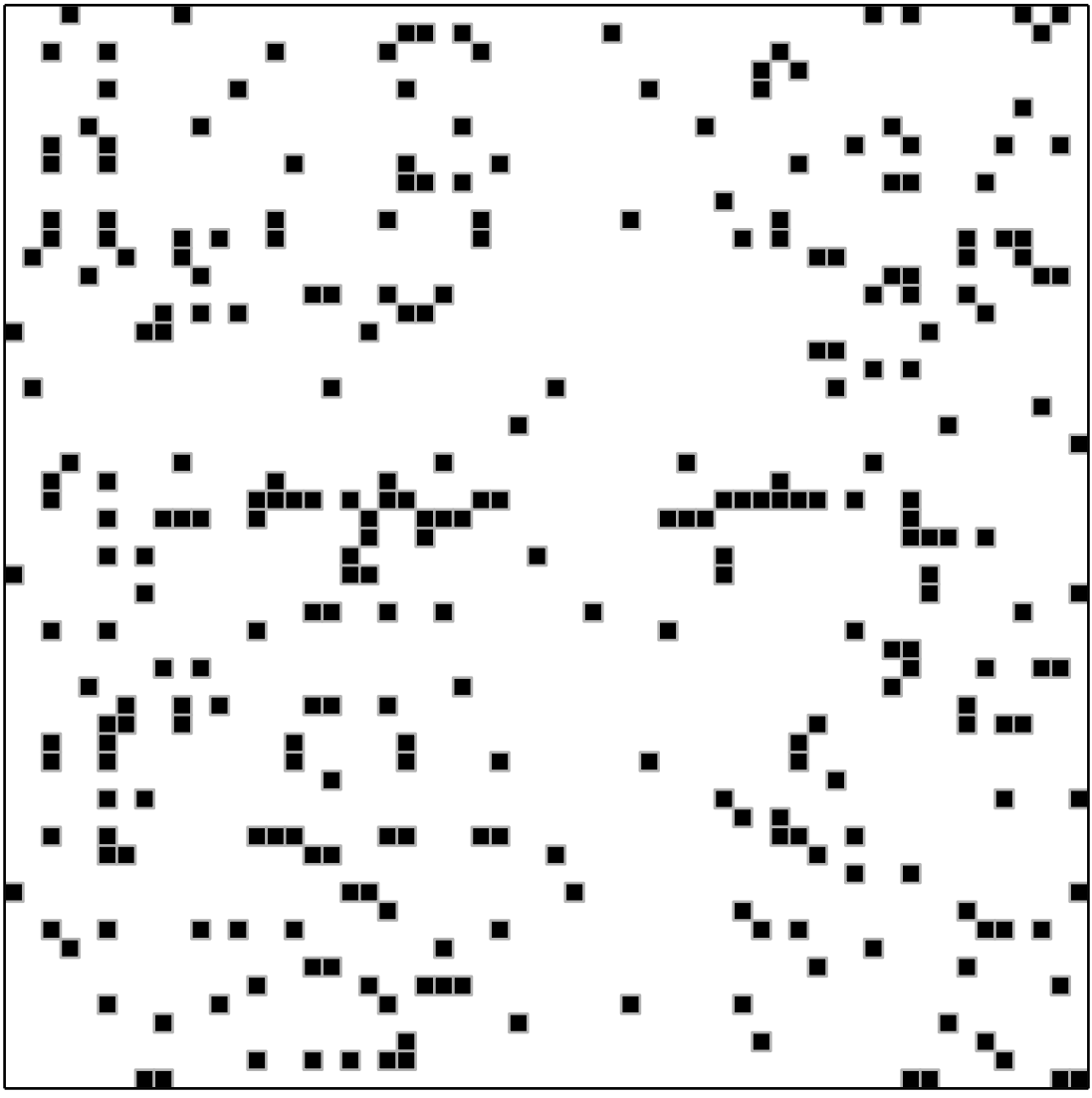

lib3_rueher-00, cost: 8, diff: 8, explored: 8155, time: 3.85s

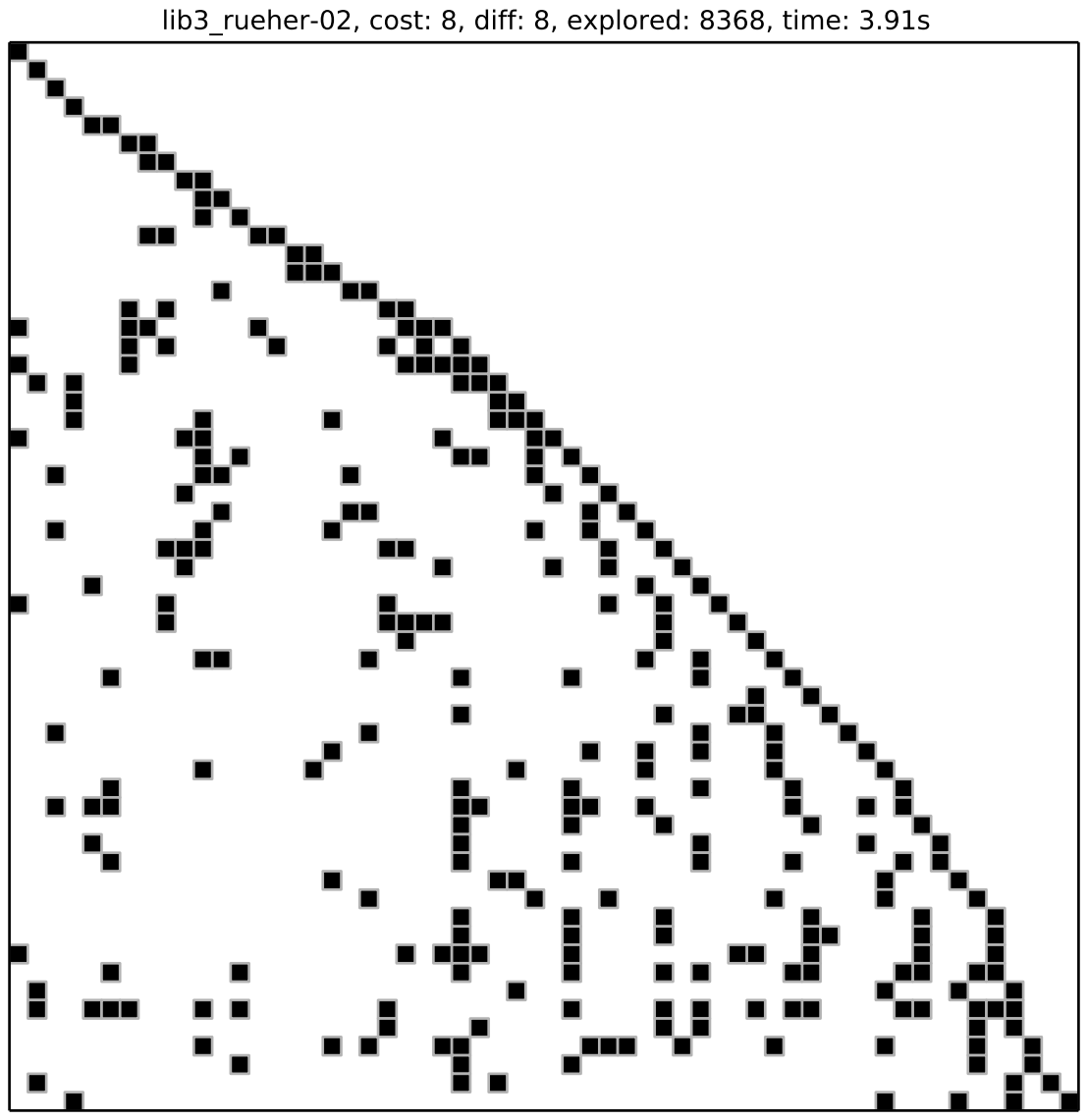
lib3_rueher-01 58x58 (302) con: 20, var: 38

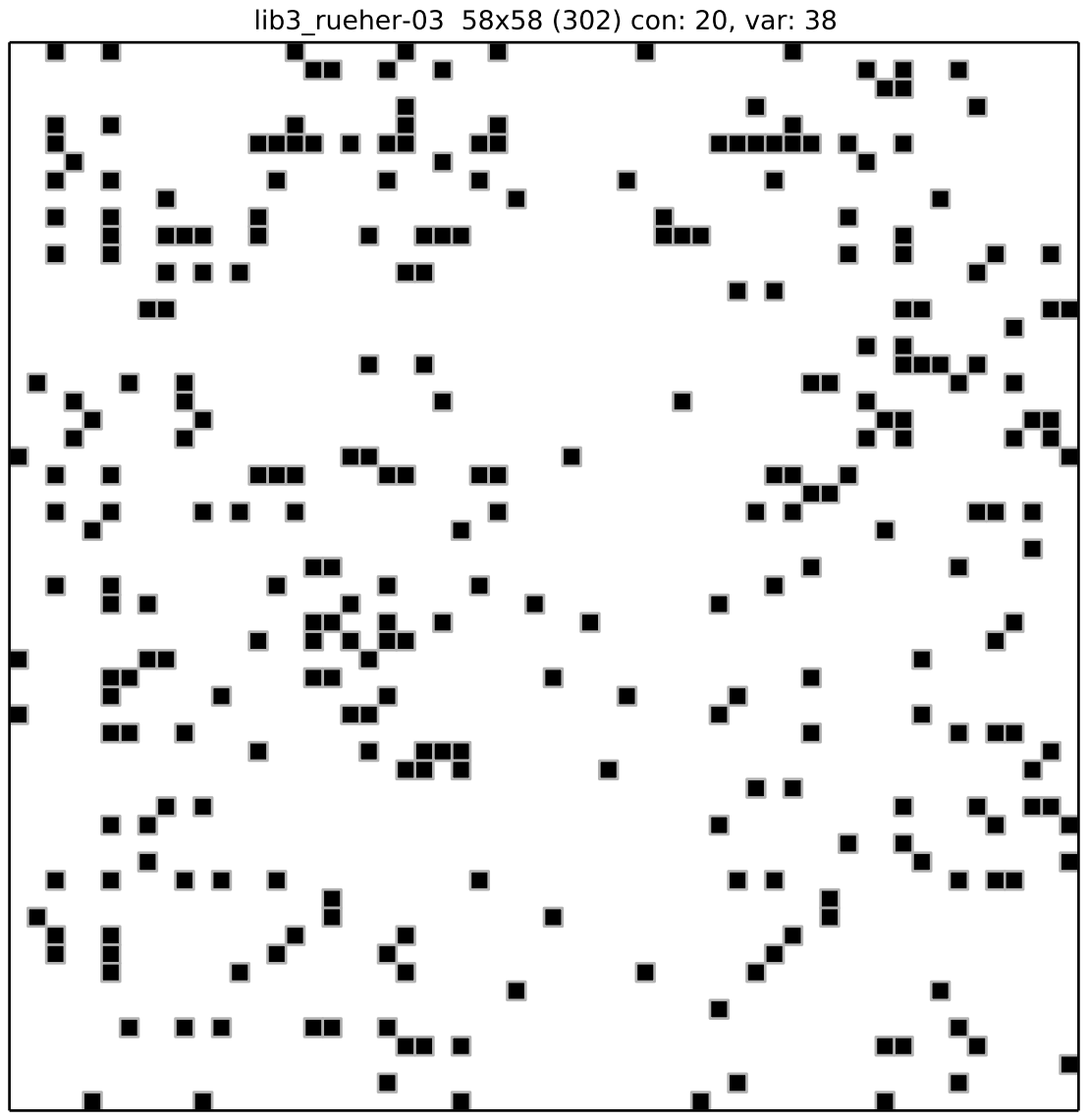


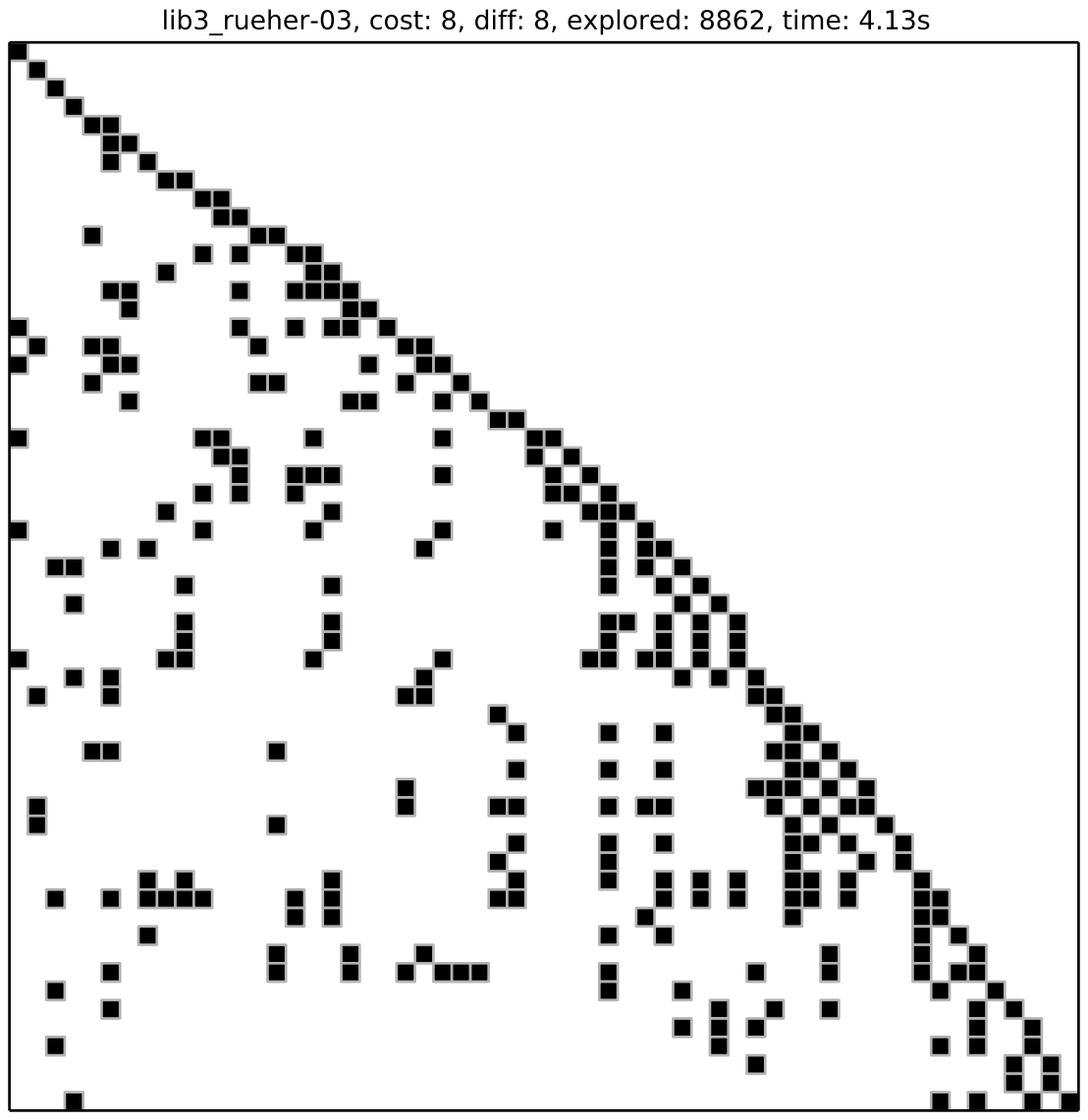

lib3_rueher-01, cost: 8, diff: 8, explored: 8993, time: 4.16s

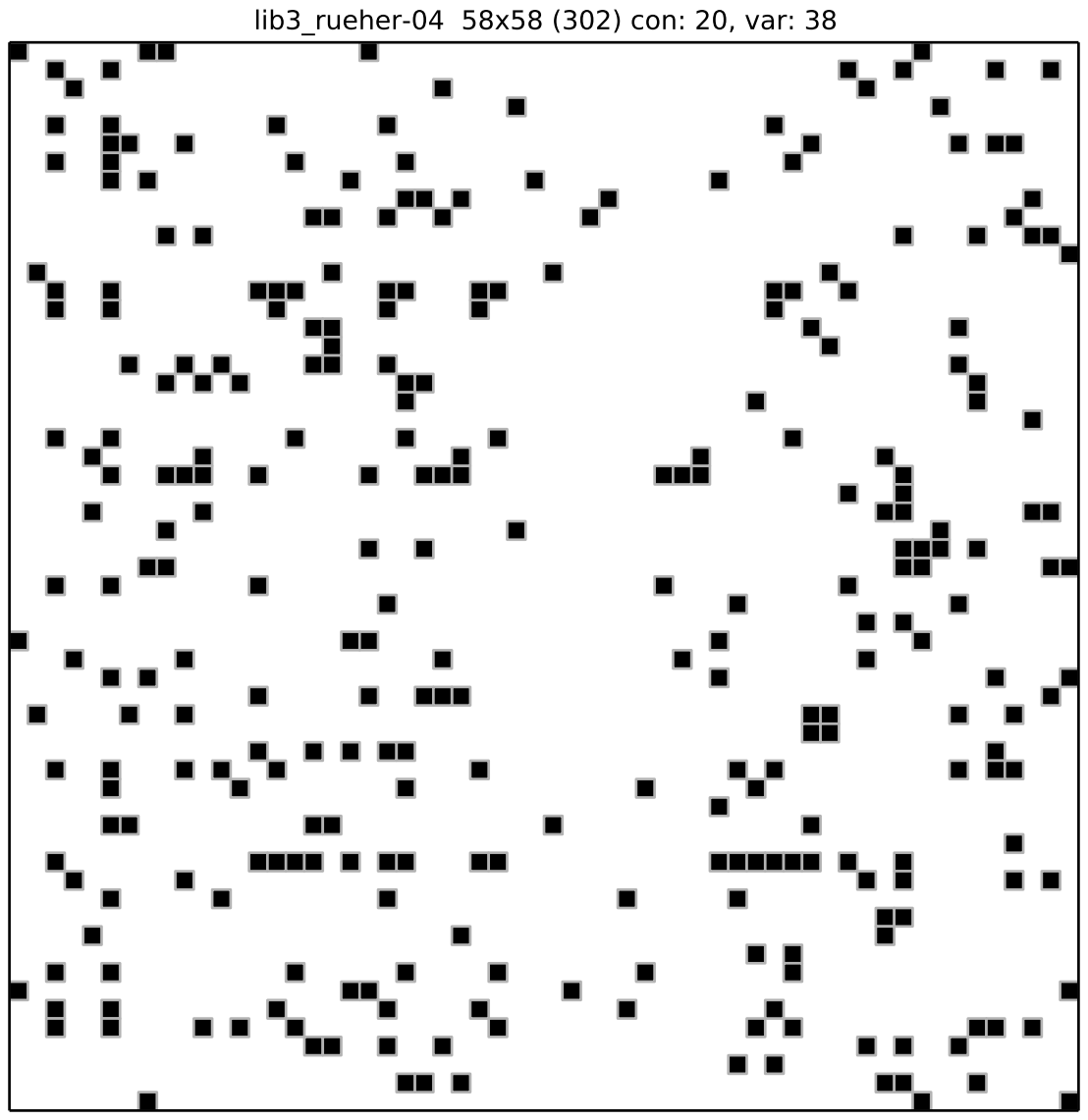
lib3_rueher-02 58x58 (302) con: 20, var: 38

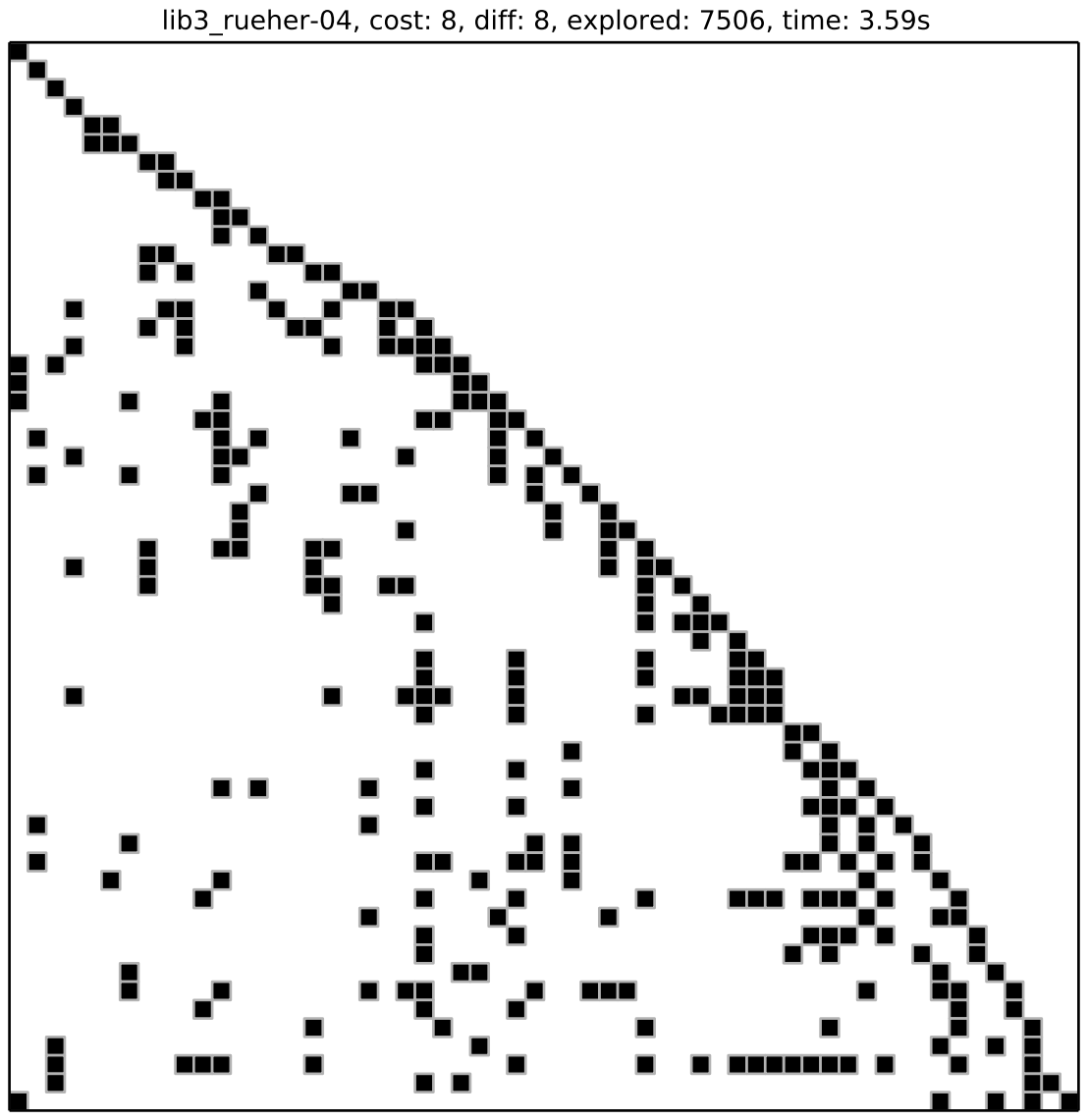



lib3_rueher-02, cost: 8, diff: 8, explored: 8368, time: 3.91s

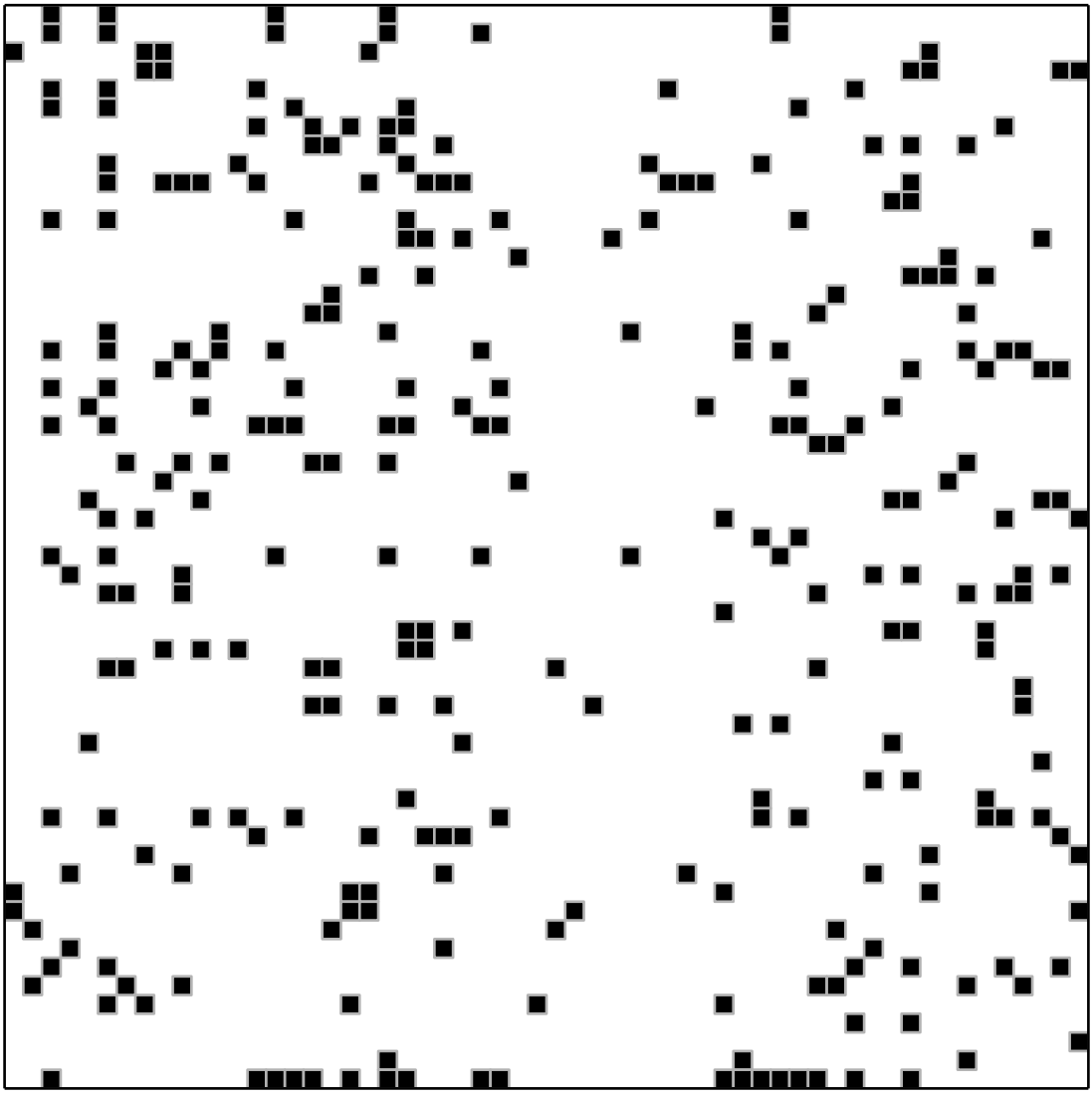

lib3_rueher-03 58x58 (302) con: 20, var: 38

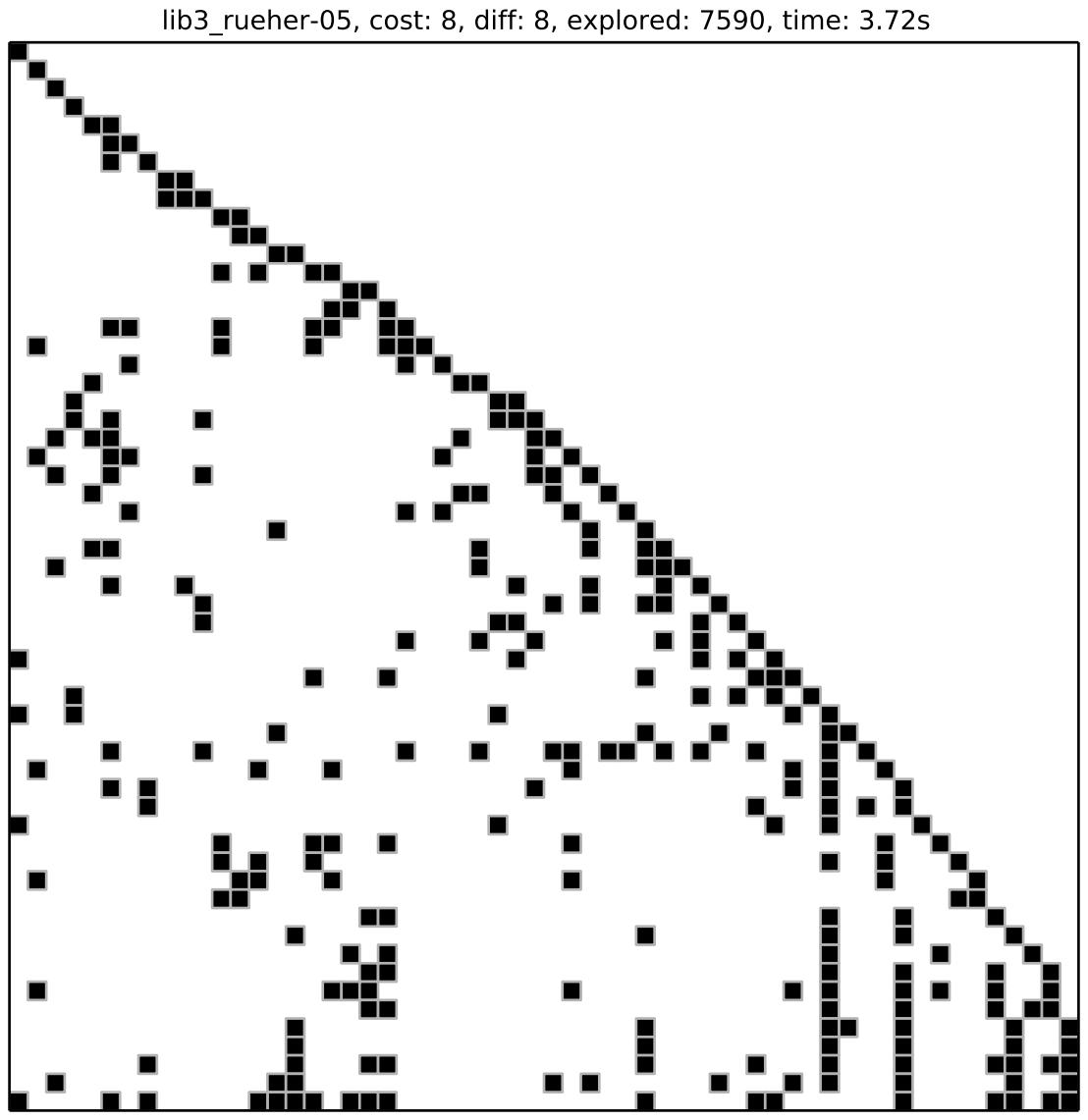

lib3_rueher-03, cost: 8, diff: 8, explored: 8862, time: 4.13s


lib3_rueher-04 58x58 (302) con: 20, var: 38

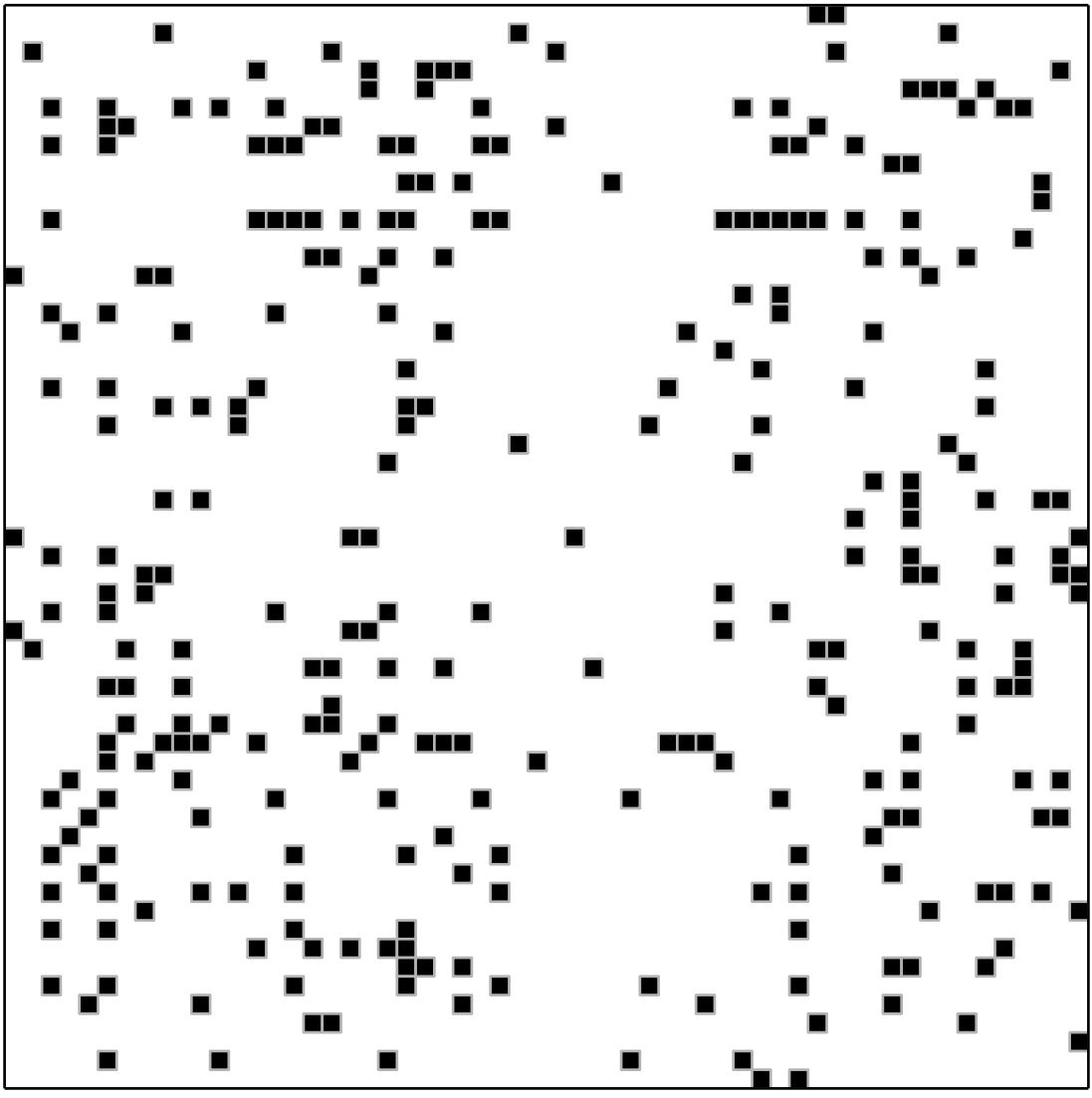

lib3_rueher-04, cost: 8, diff: 8, explored: 7506, time: 3.59s

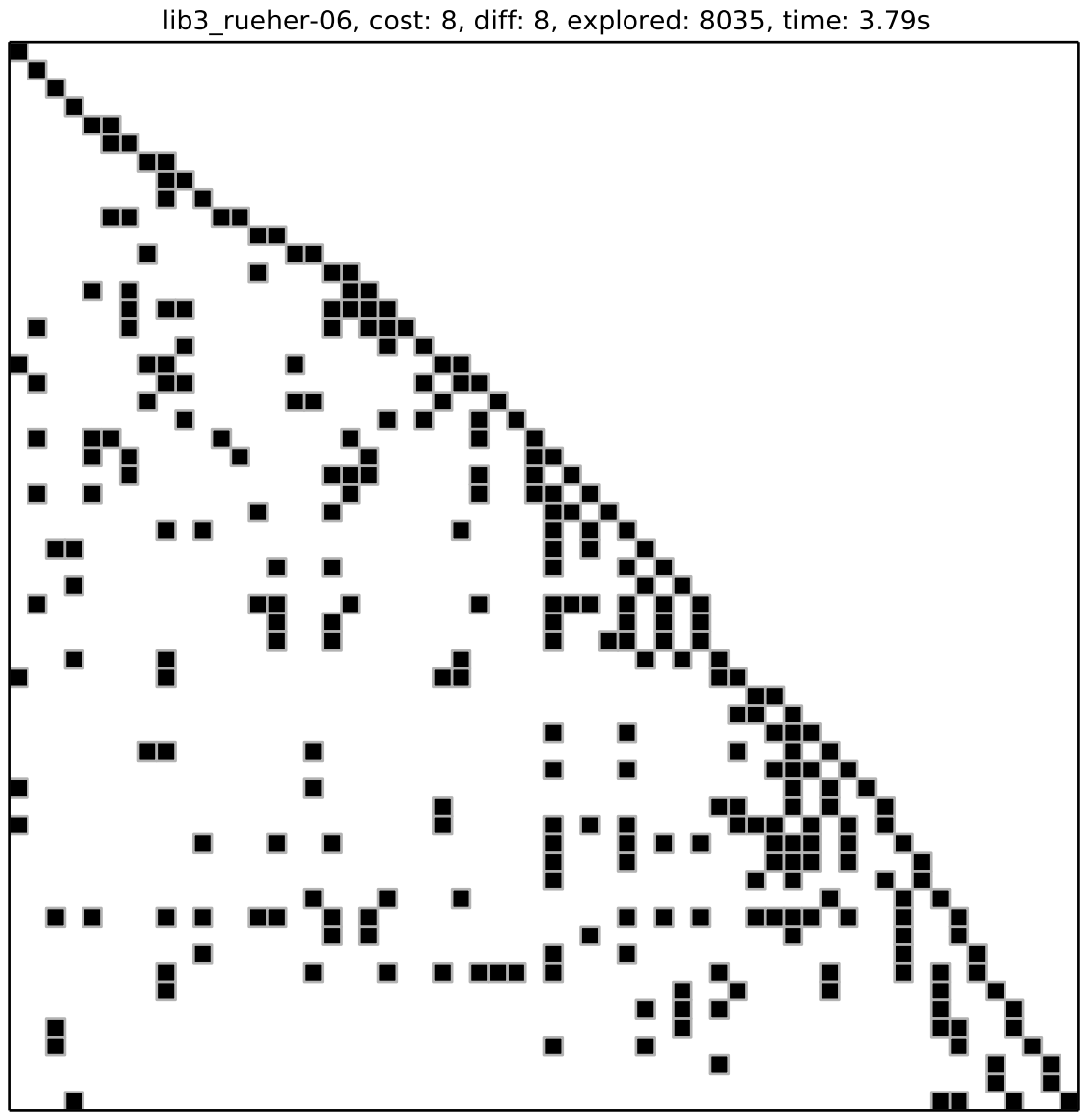
lib3_rueher-05 58x58 (302) con: 20, var: 38



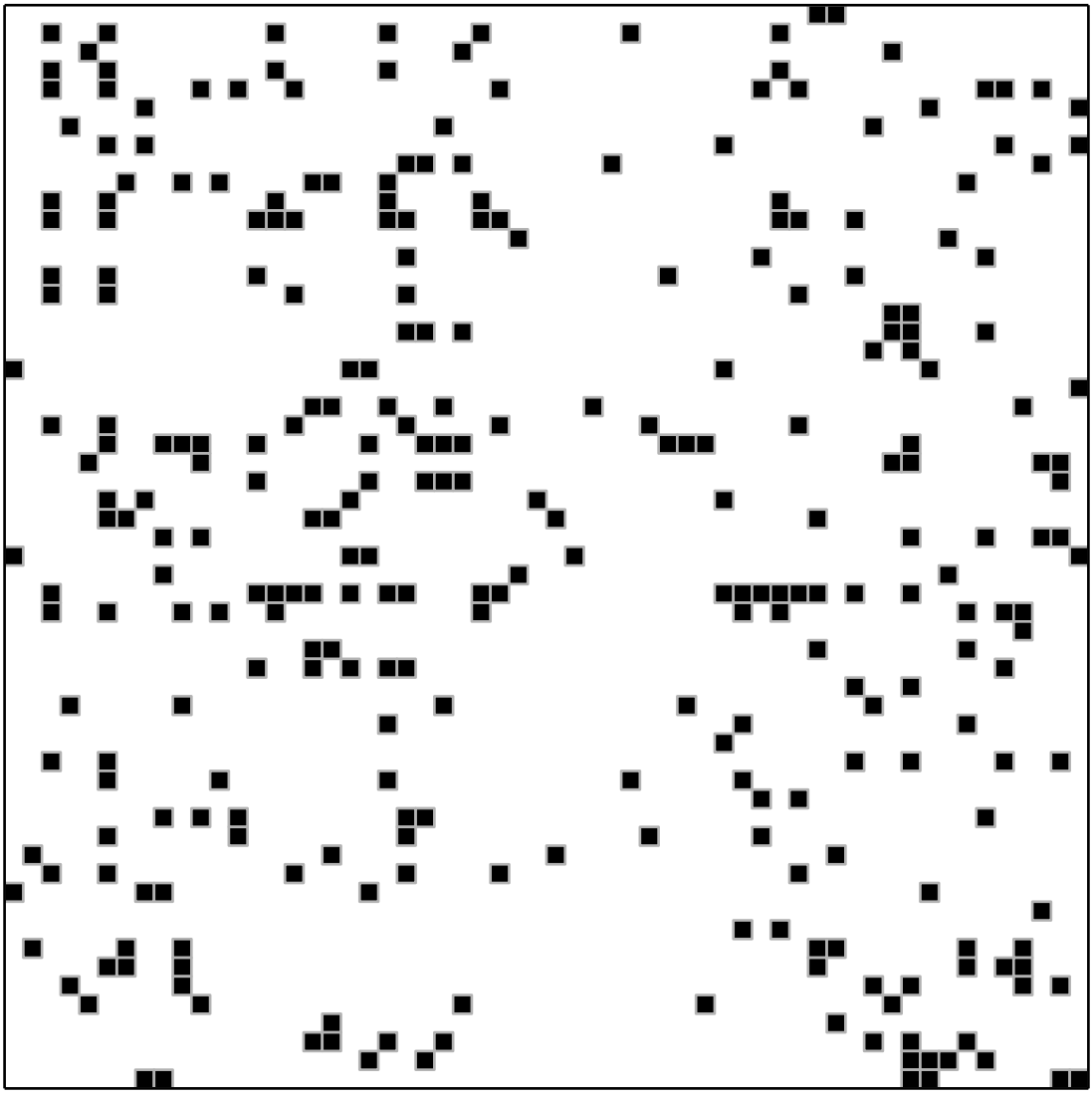

lib3_rueher-05, cost: 8, diff: 8, explored: 7590, time: 3.72s

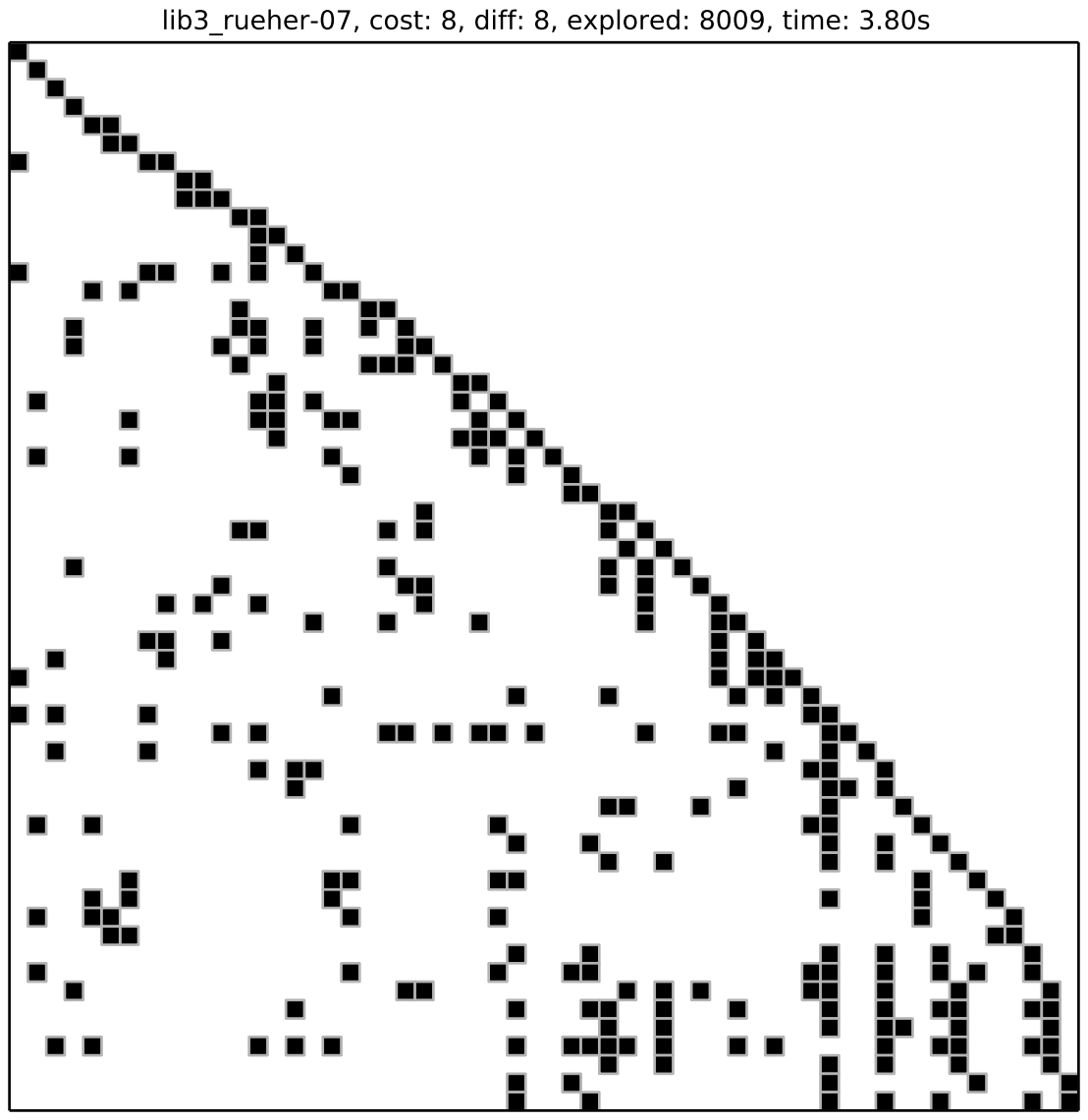
lib3_rueher-06 58x58 (302) con: 20, var: 38



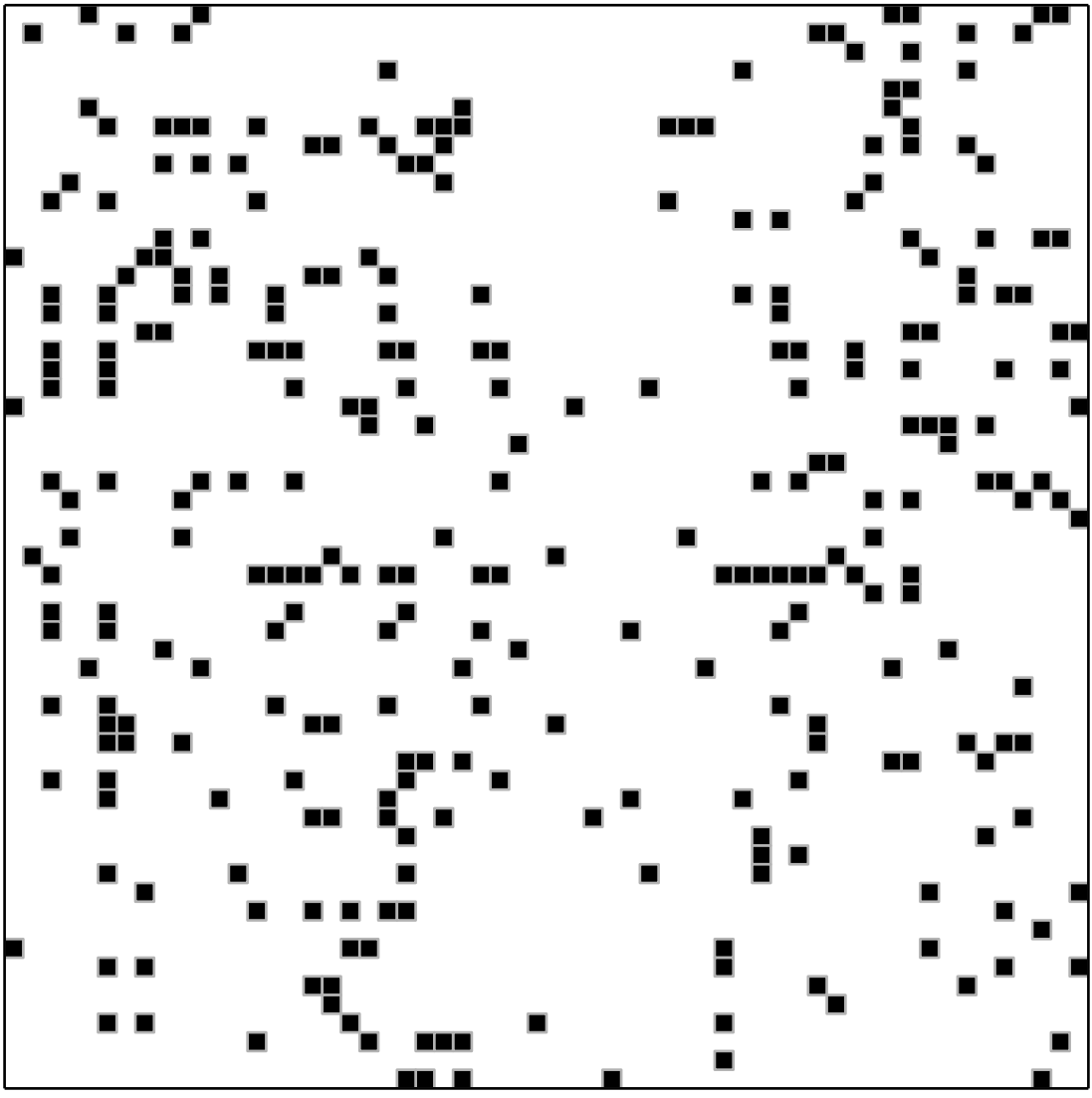

lib3_rueher-06, cost: 8, diff: 8, explored: 8035, time: 3.79s

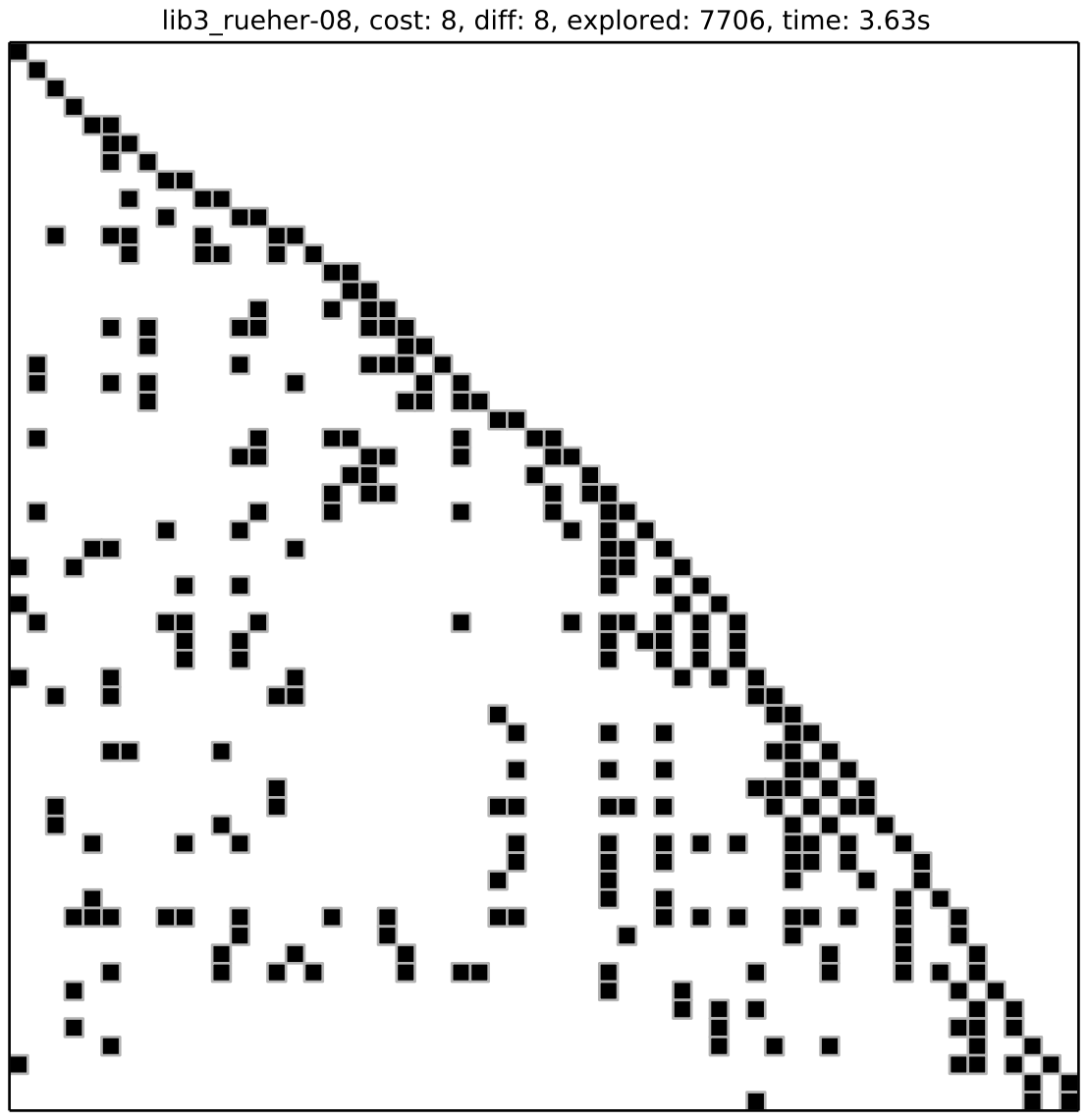
lib3_rueher-07 58x58 (302) con: 20, var: 38

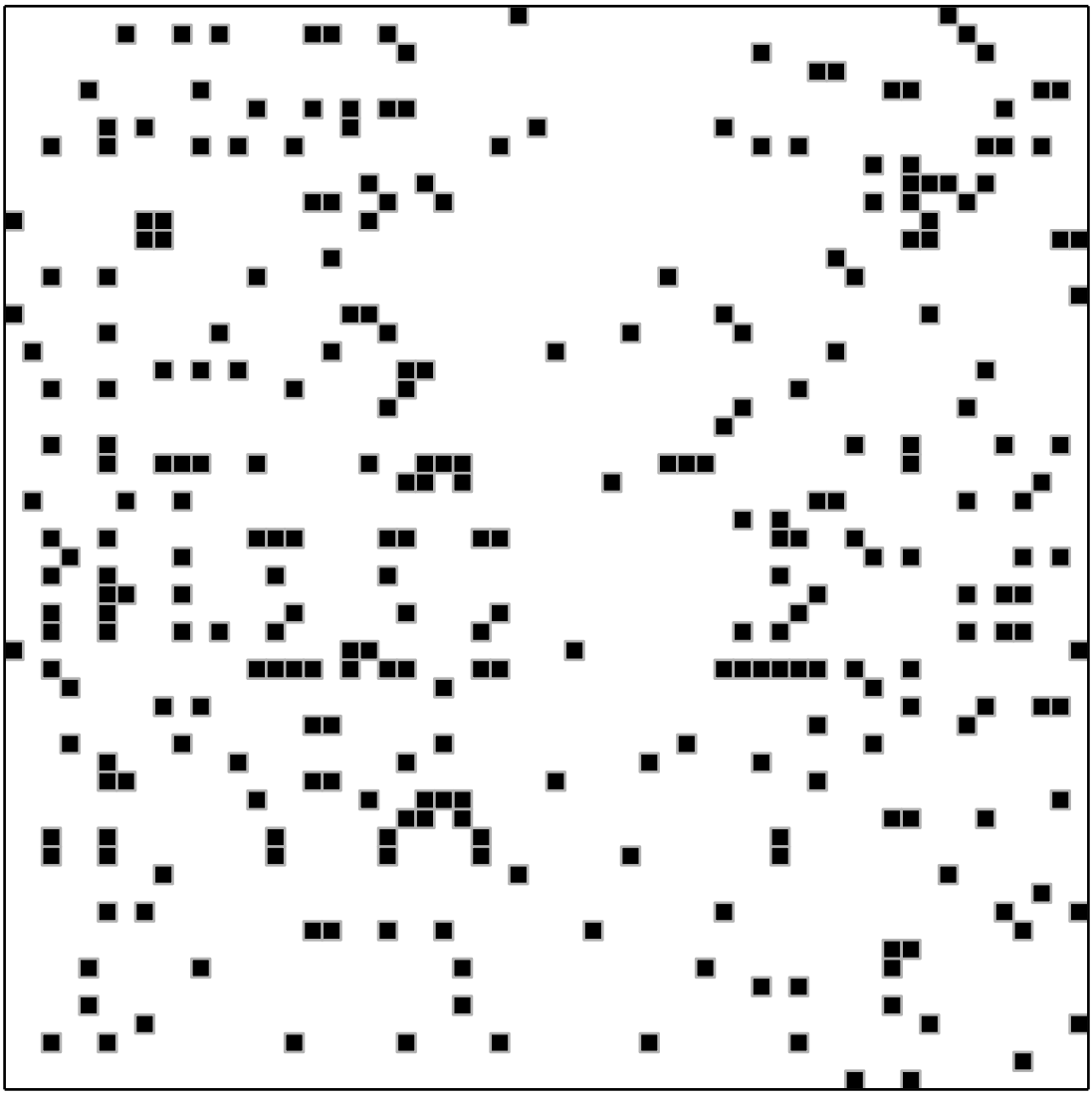


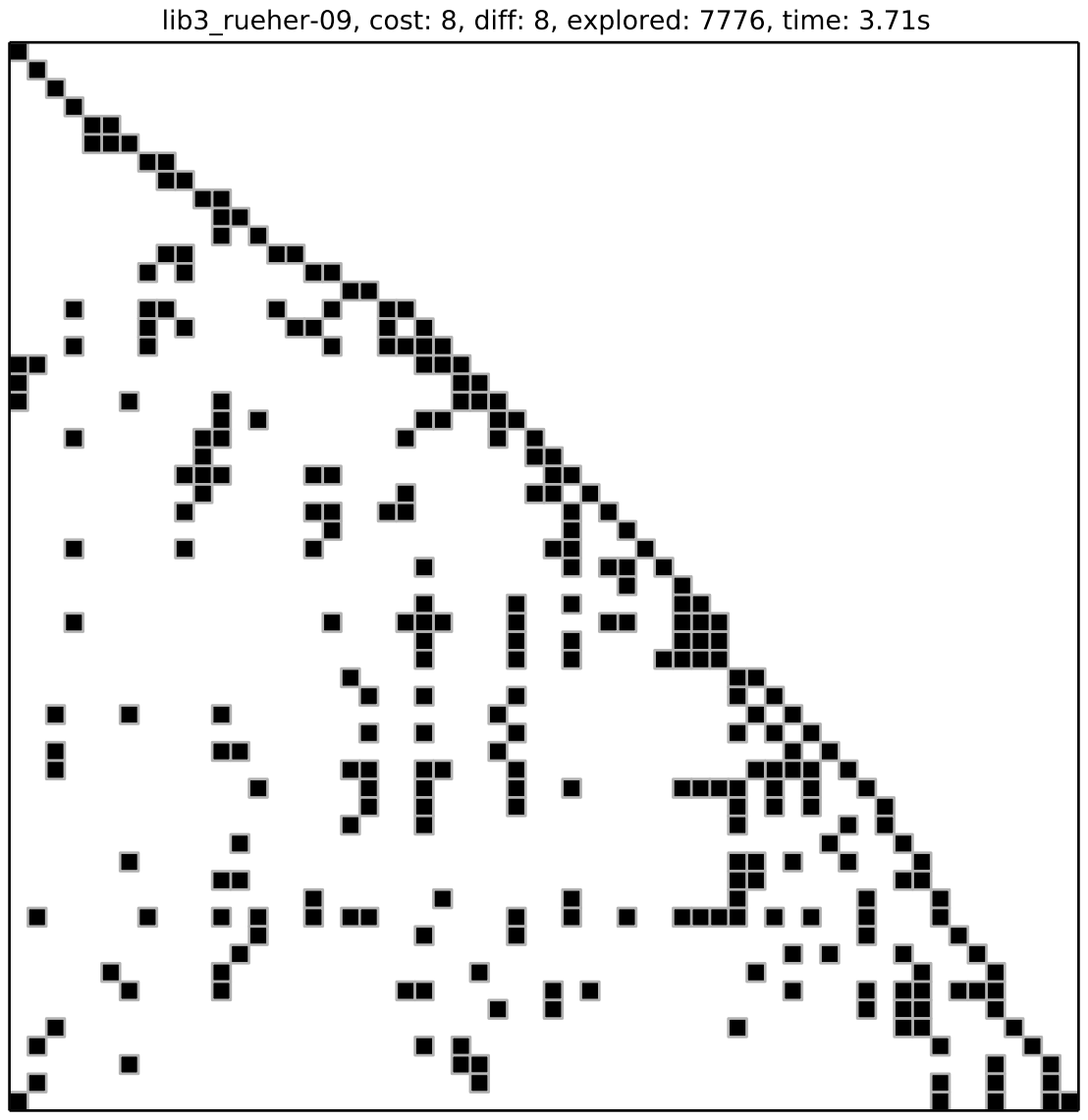

lib3_rueher-07, cost: 8, diff: 8, explored: 8009, time: 3.80s

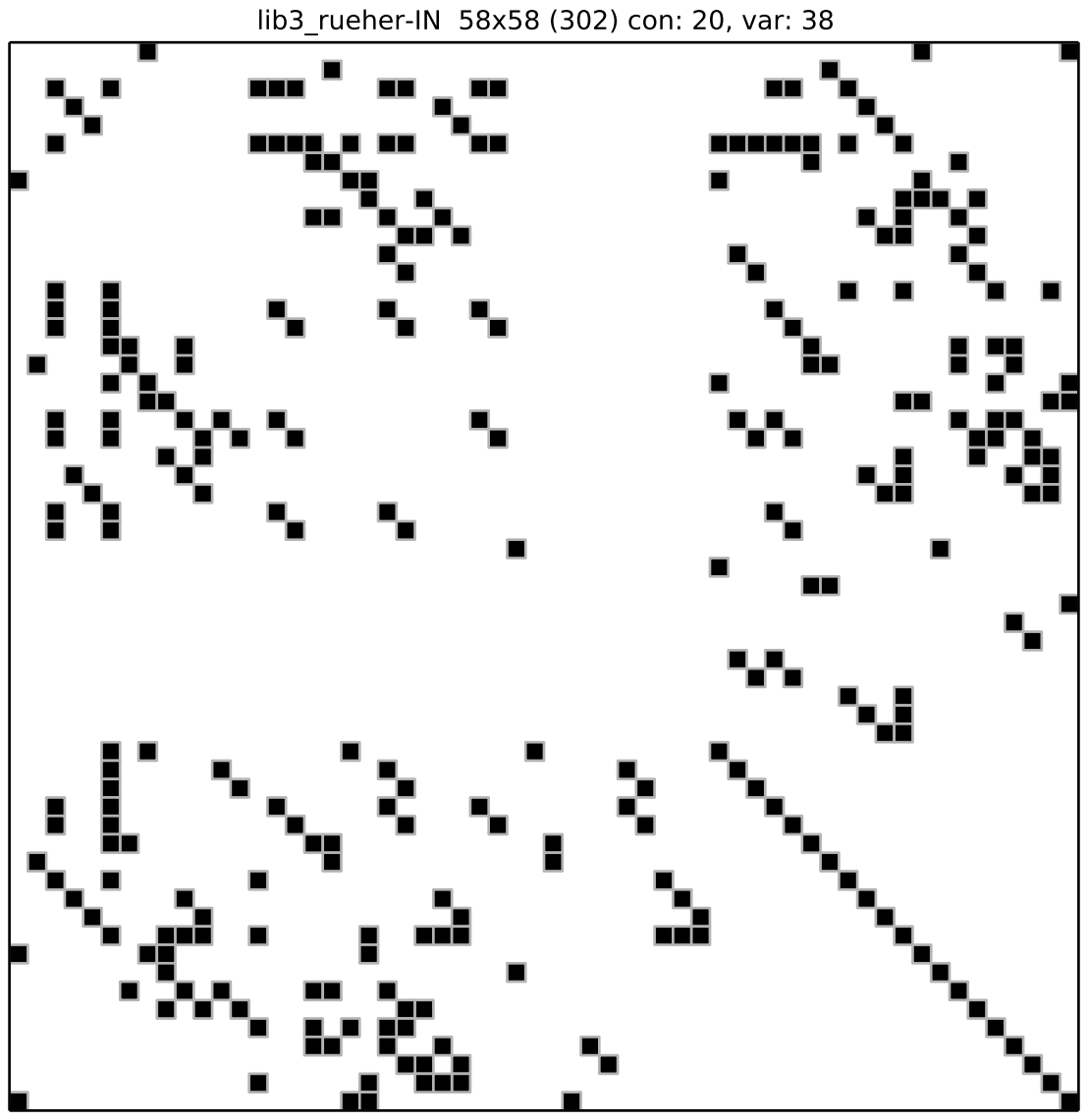
lib3_rueher-08 58x58 (302) con: 20, var: 38

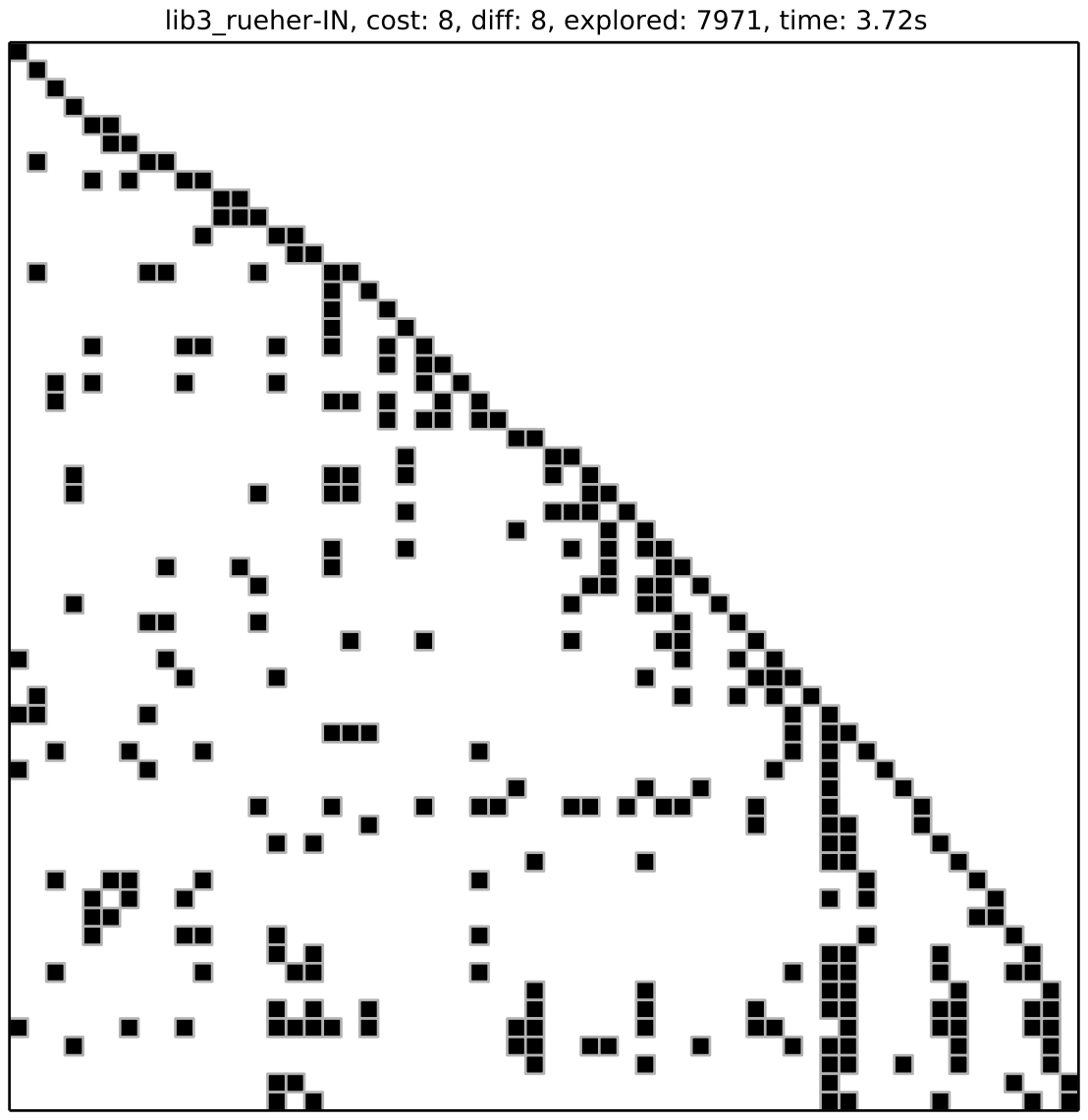



lib3_rueher-08, cost: 8, diff: 8, explored: 7706, time: 3.63s

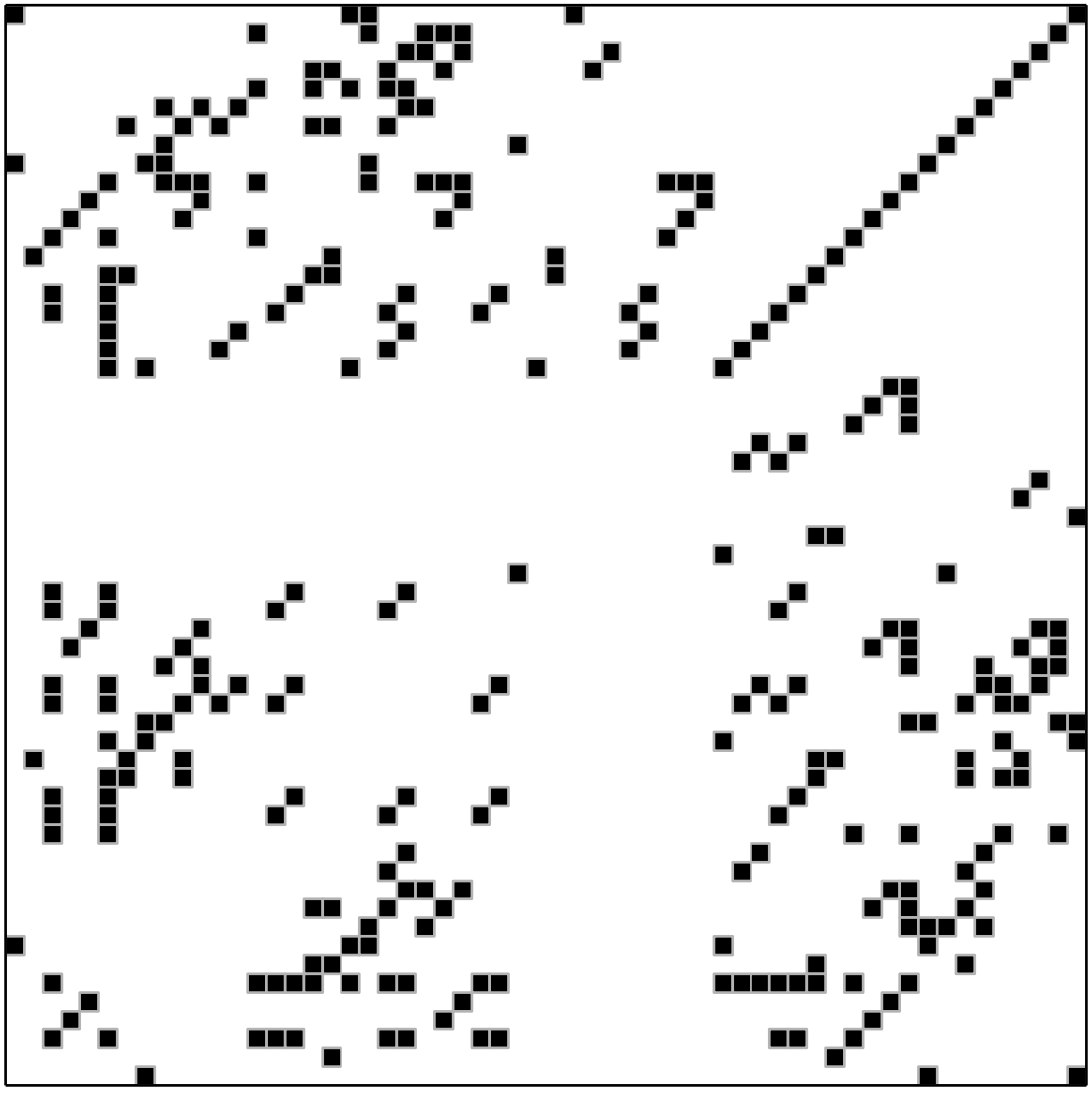

lib3_rueher-09 58x58 (302) con: 20, var: 38

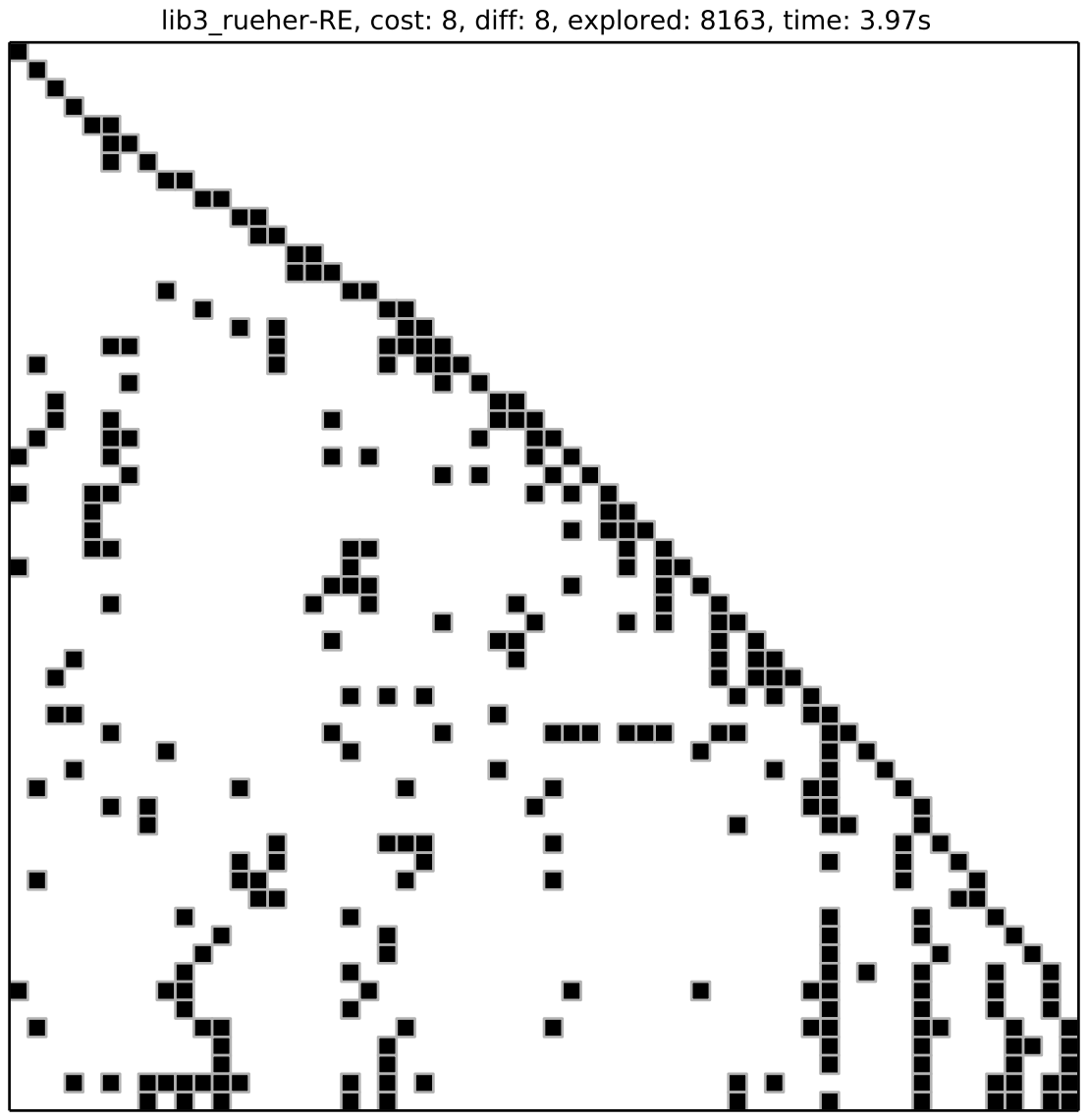

lib3_rueher-09, cost: 8, diff: 8, explored: 7776, time: 3.71s


lib3_rueher-IN 58x58 (302) con: 20, var: 38

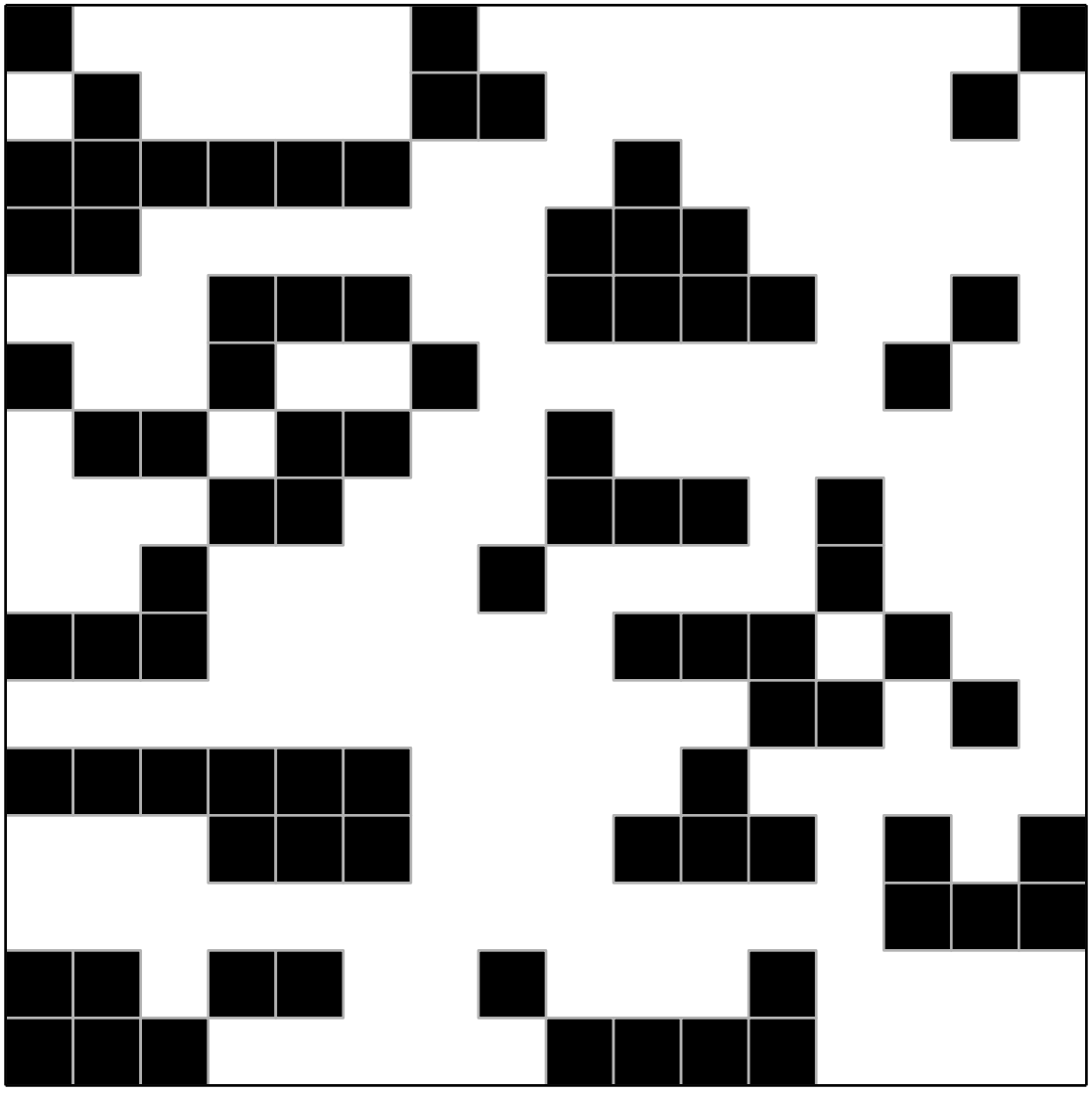

lib3_rueher-IN, cost: 8, diff: 8, explored: 7971, time: 3.72s

lib3_rueher-RE 58x58 (302) con: 20, var: 38

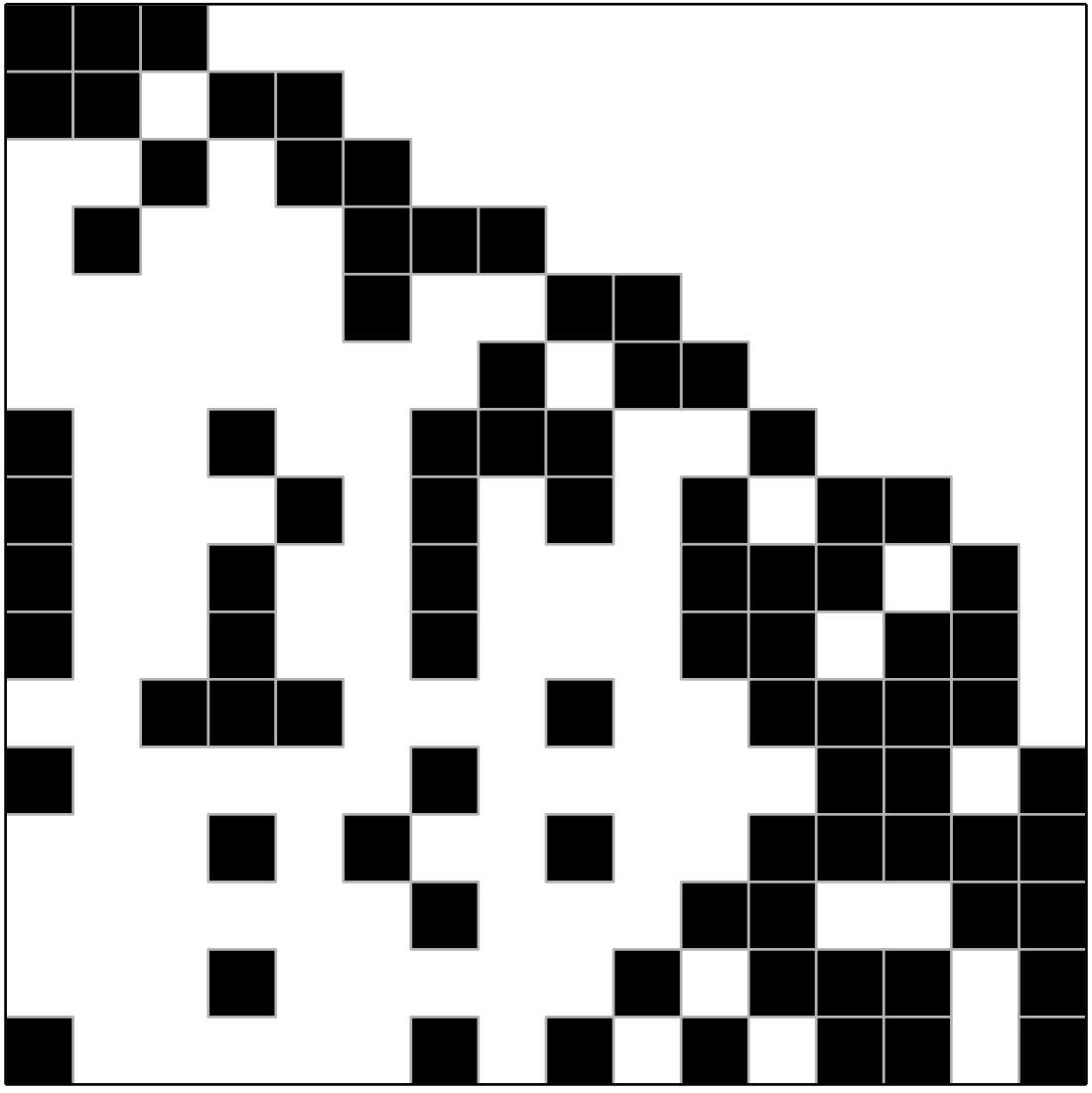



lib3_rueher-RE, cost: 8, diff: 8, explored: 8163, time: 3.97s

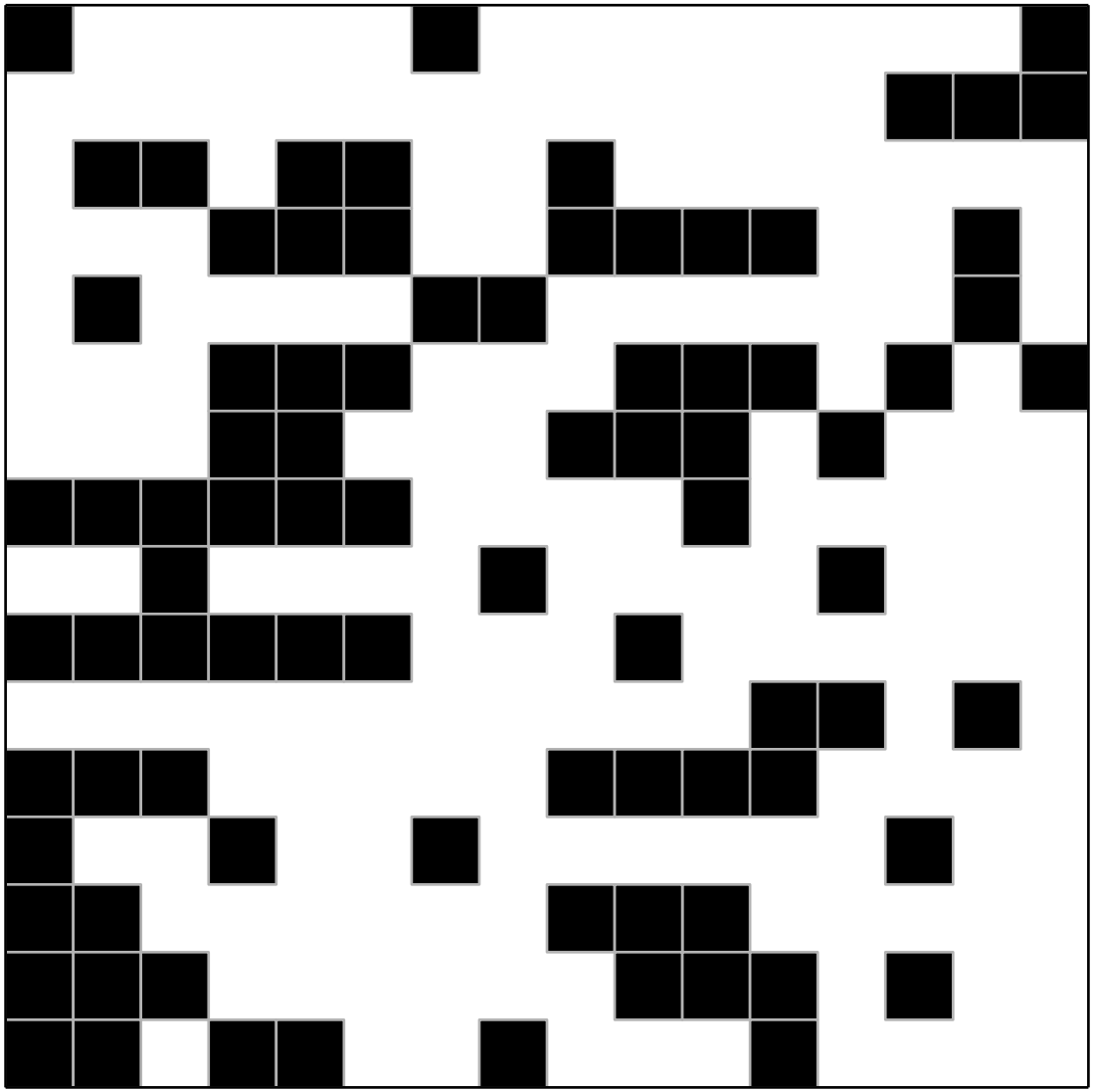
lib3_s9_1-00 16x16 (86) con: 8, var: 8



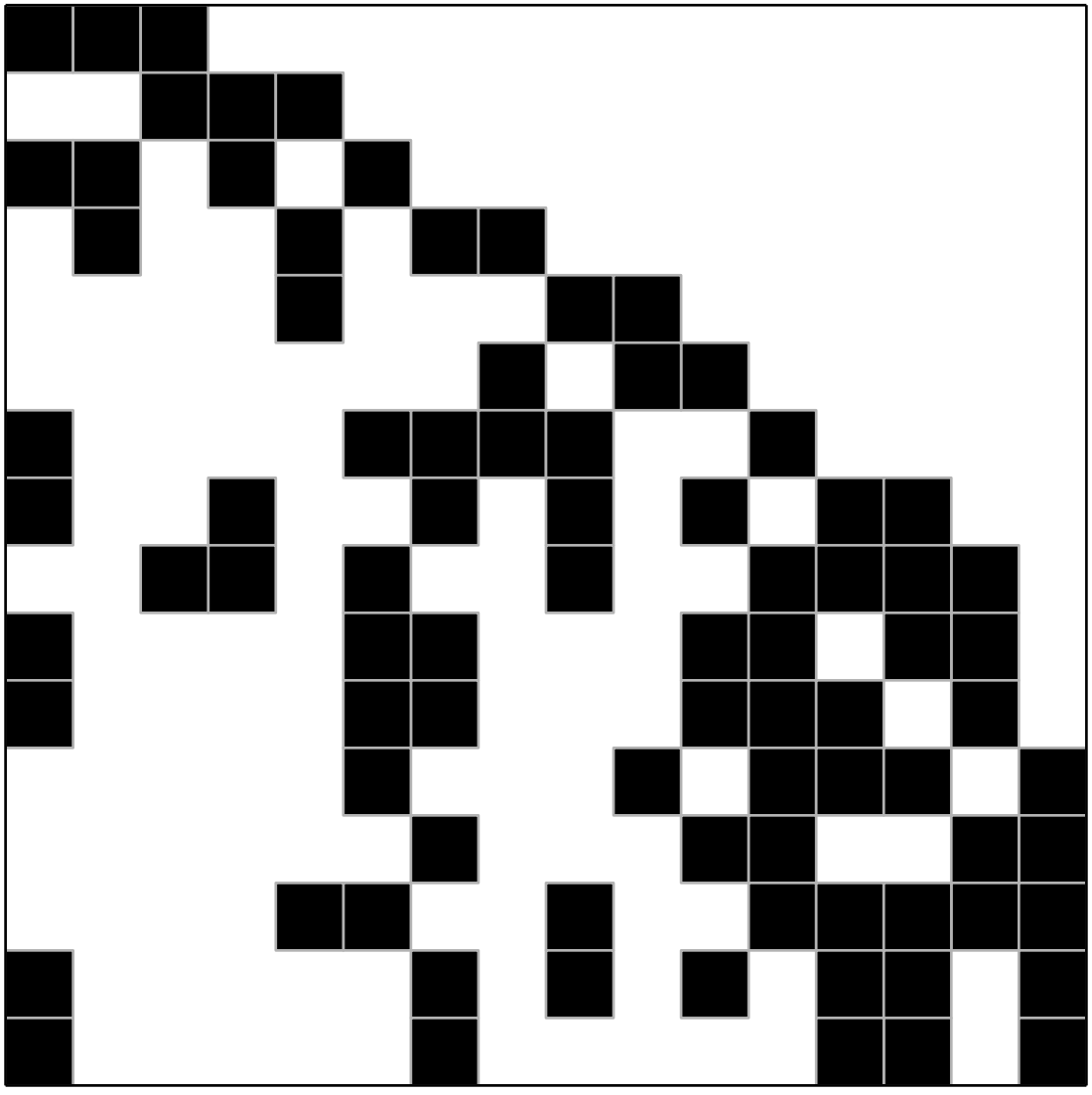
lib3_s9_1-00, cost: 6, diff: 6, explored: 39, time: 0.01s



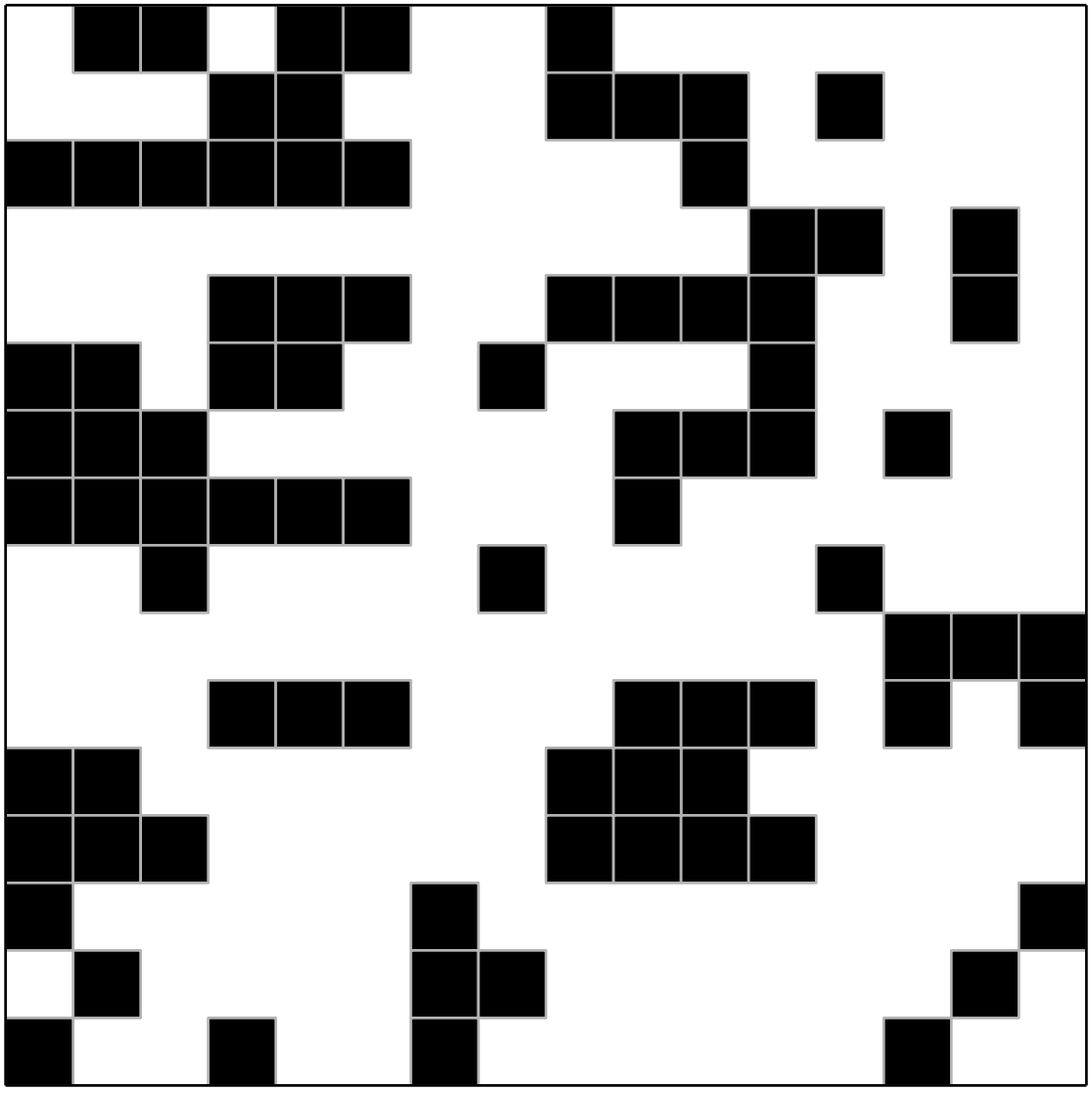
lib3_s9_1-01 16x16 (86) con: 8, var: 8

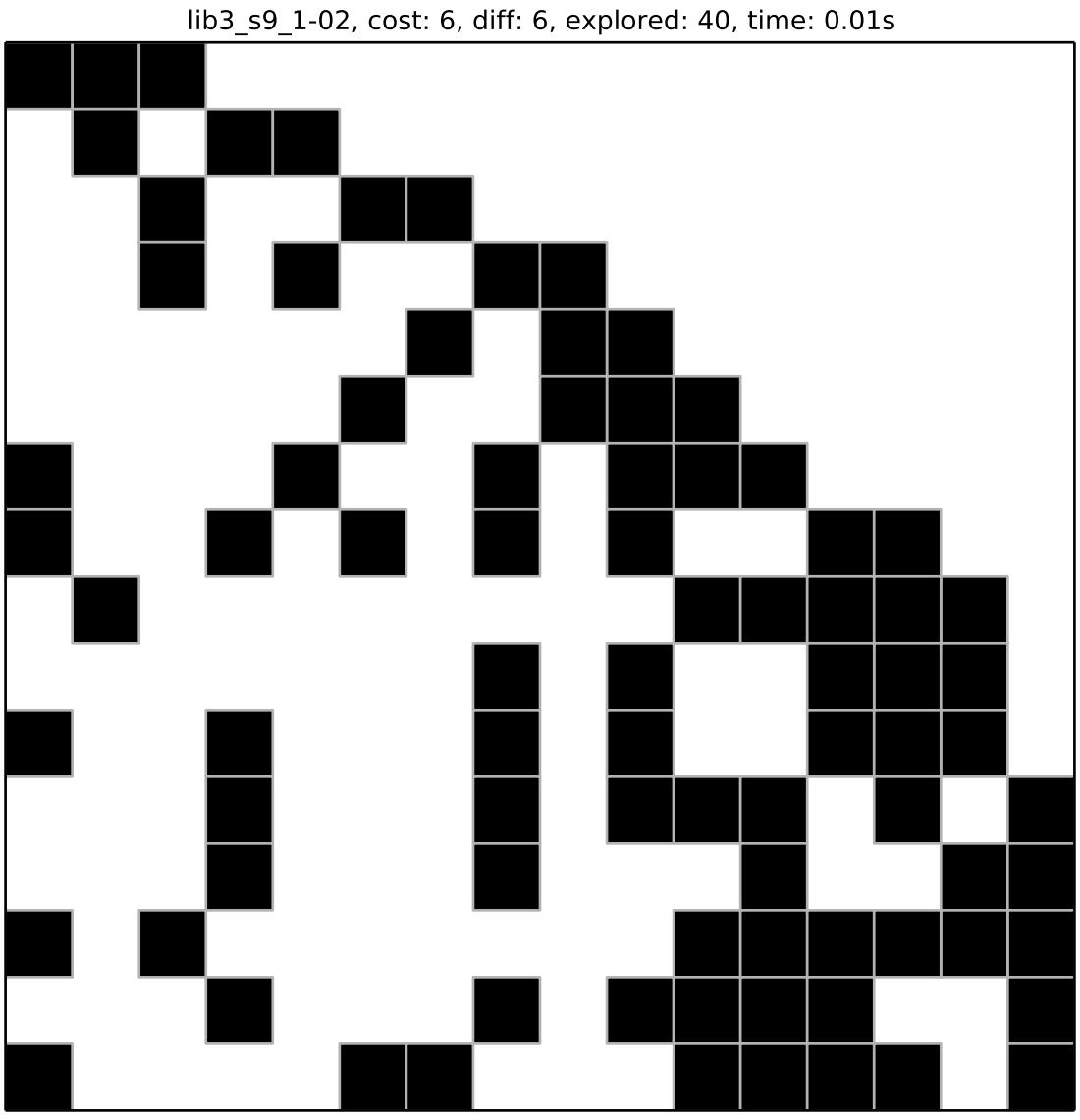


lib3_s9_1-01, cost: 6, diff: 6, explored: 38, time: 0.01s

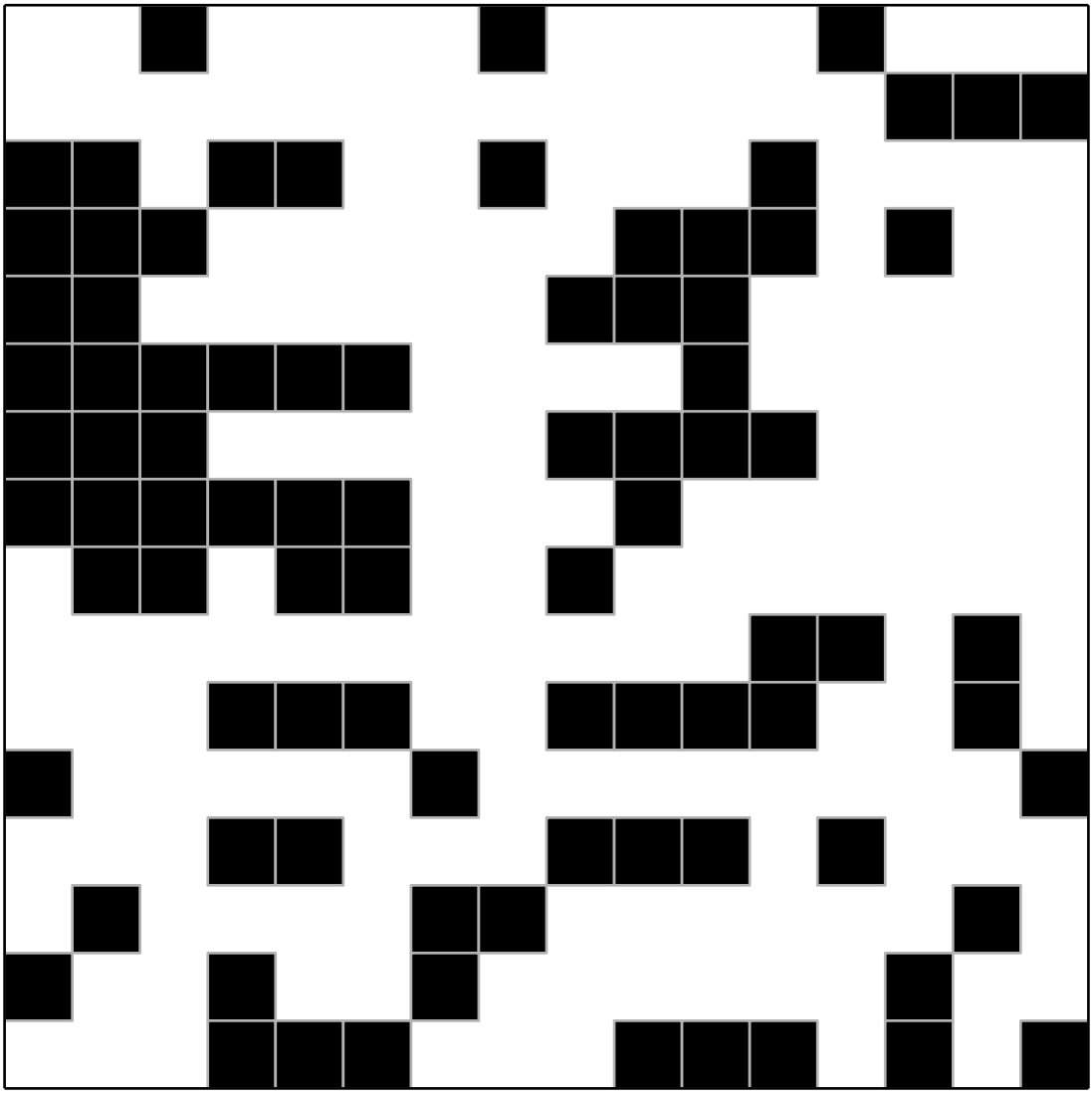


lib3_s9_1-02 16x16 (86) con: 8, var: 8

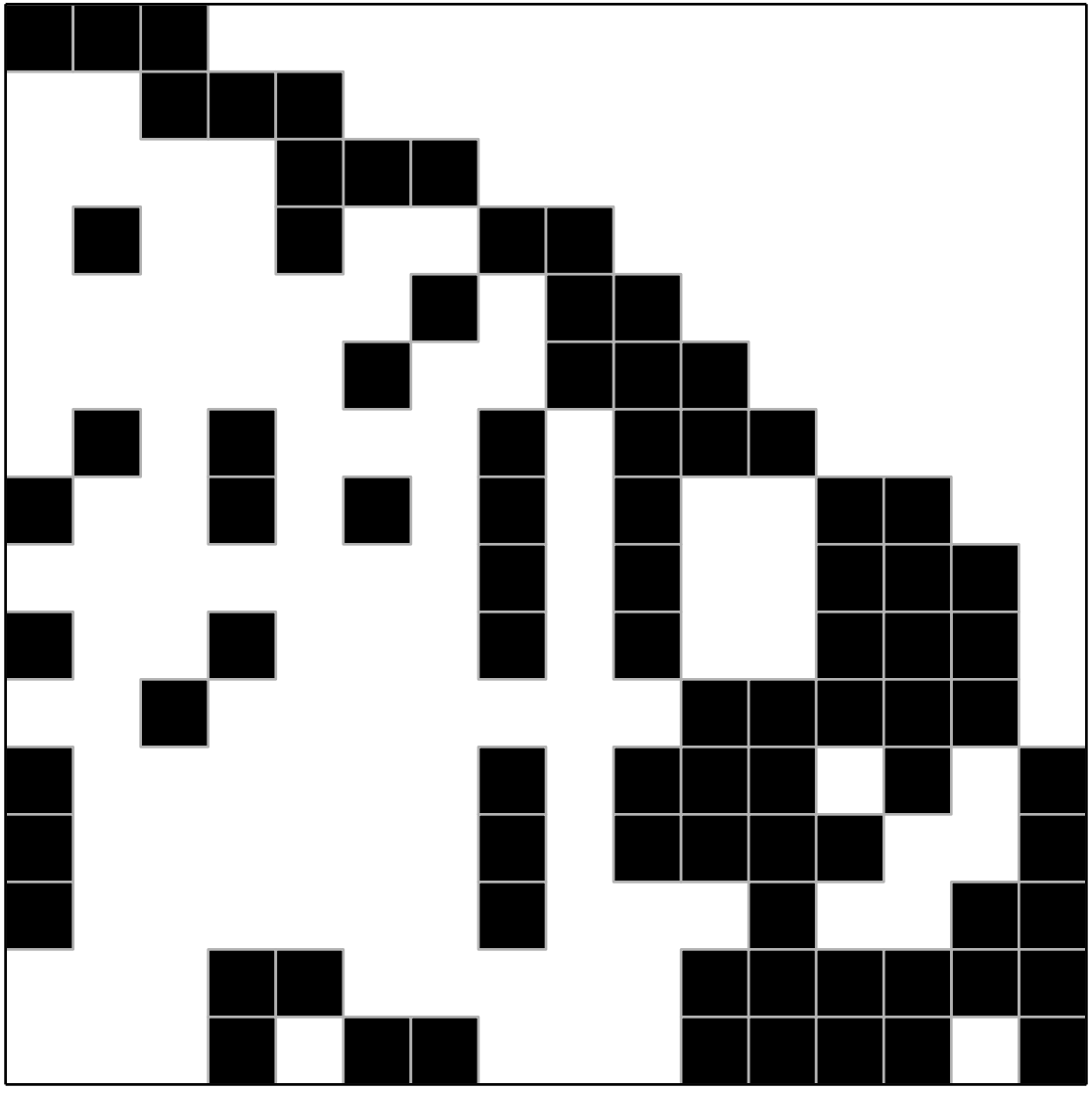



lib3_s9_1-02, cost: 6, diff: 6, explored: 40, time: 0.01s

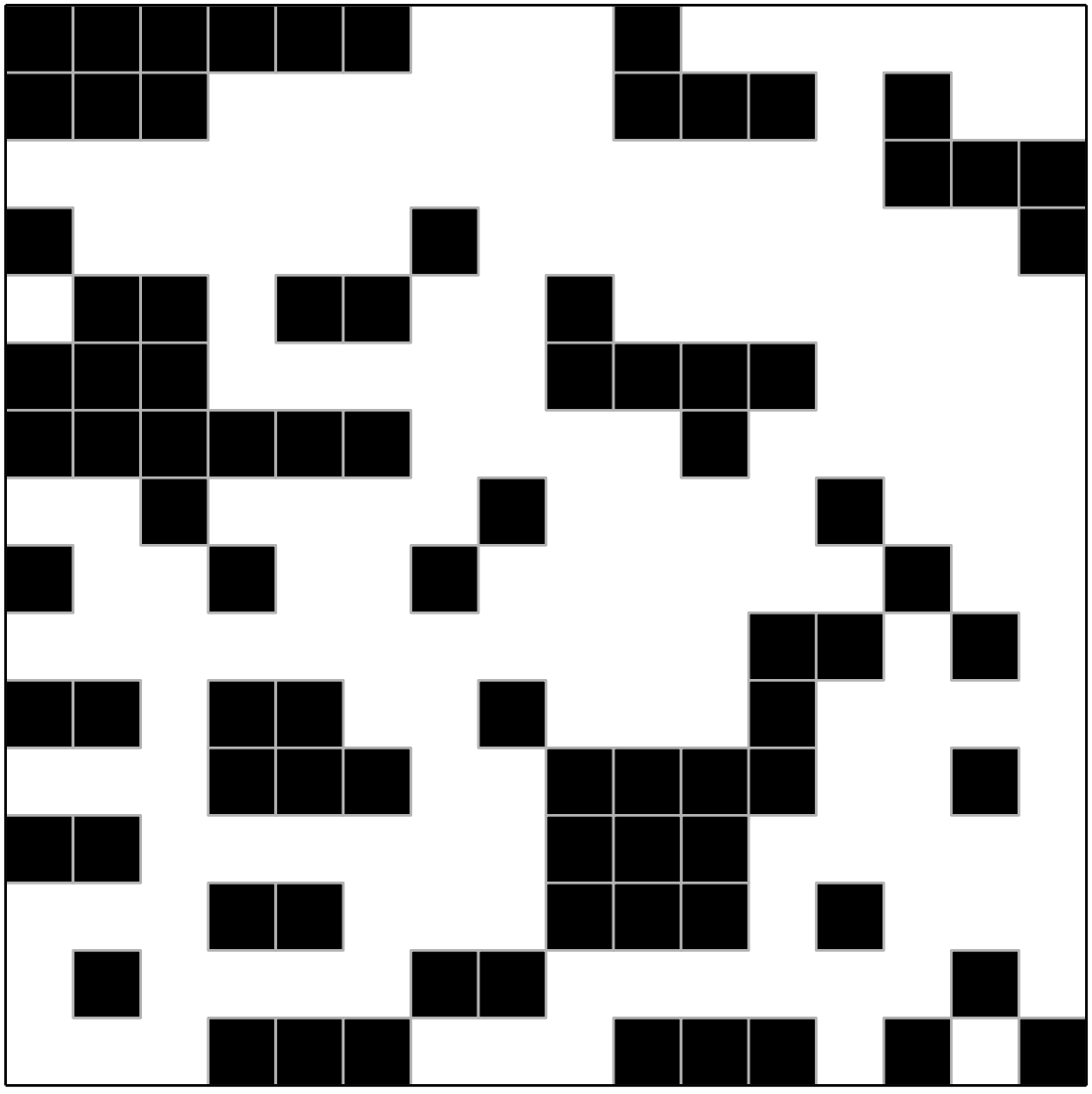
lib3_s9_1-03 16x16 (86) con: 8, var: 8



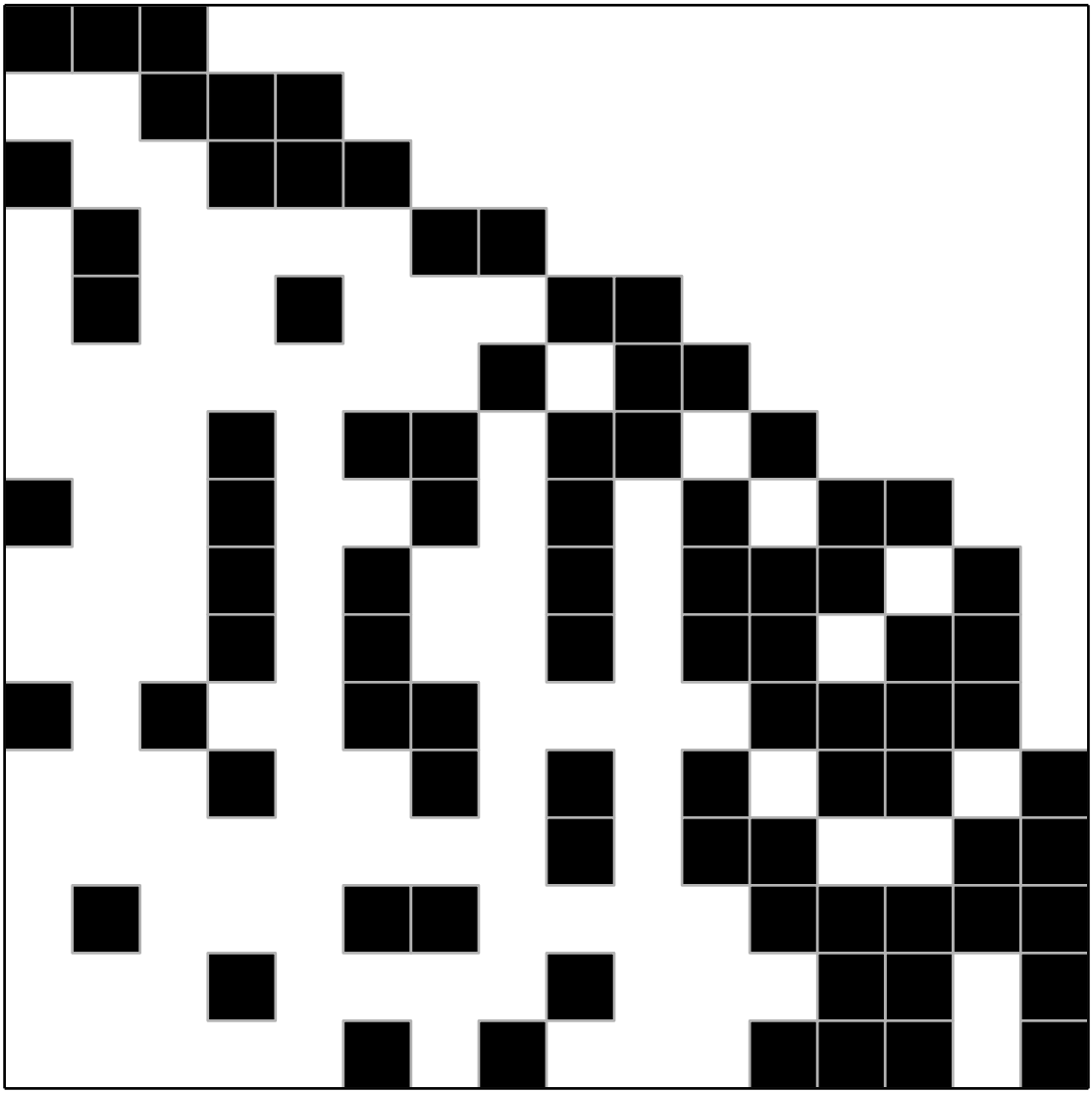
lib3_s9_1-03, cost: 6, diff: 6, explored: 39, time: 0.01s



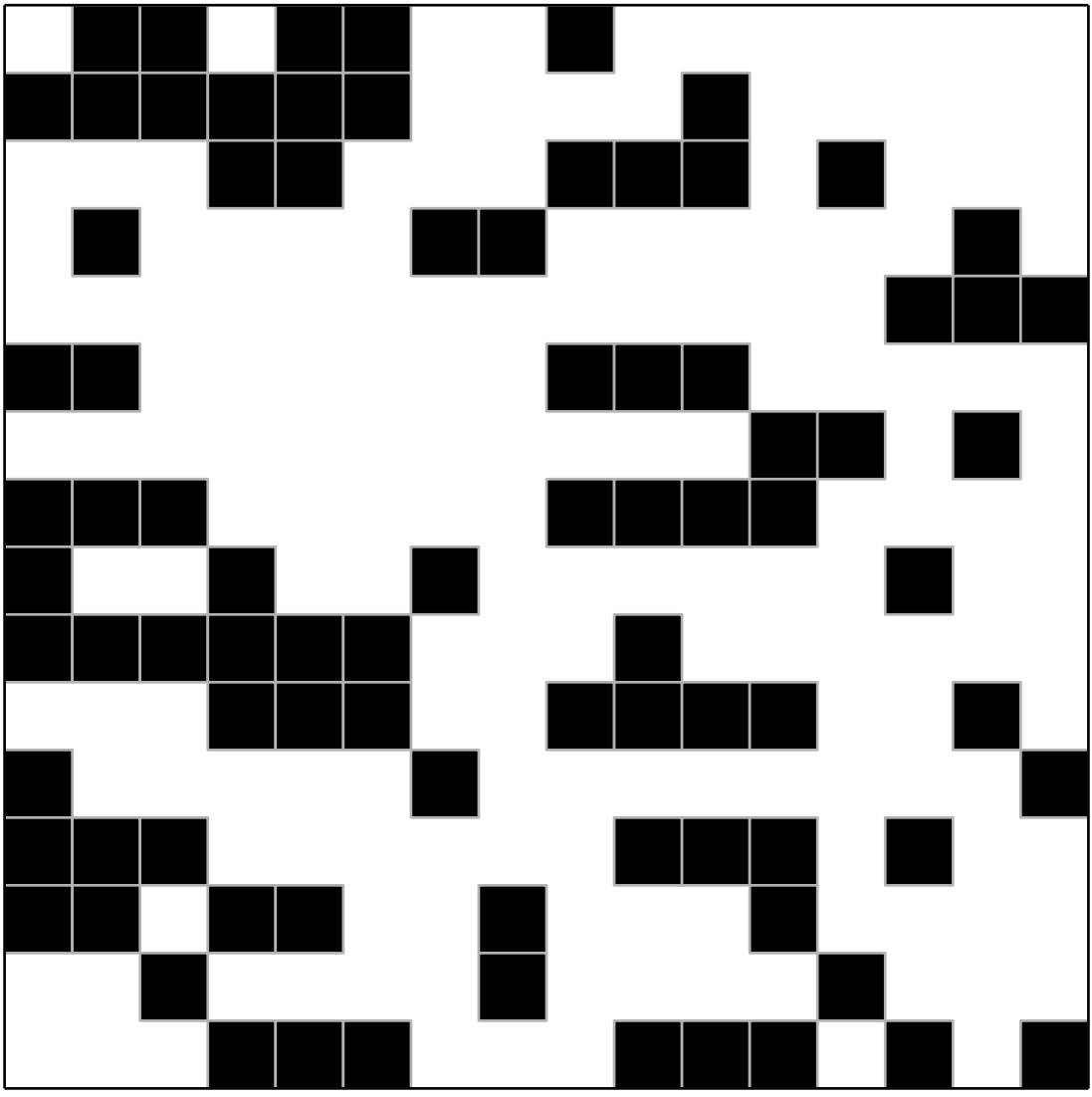
lib3_s9_1-04 16x16 (86) con: 8, var: 8



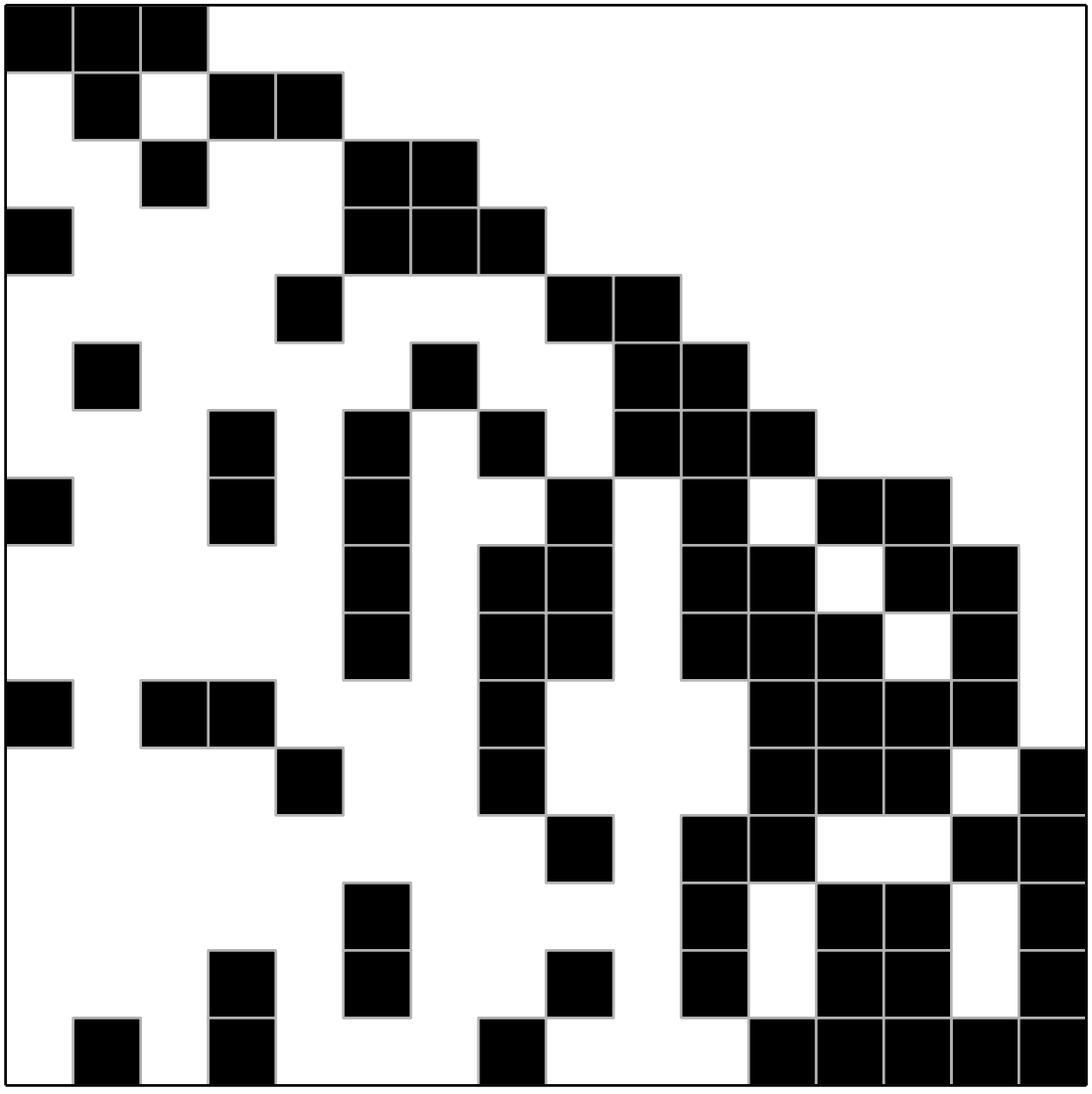
lib3_s9_1-04, cost: 6, diff: 6, explored: 39, time: 0.01s



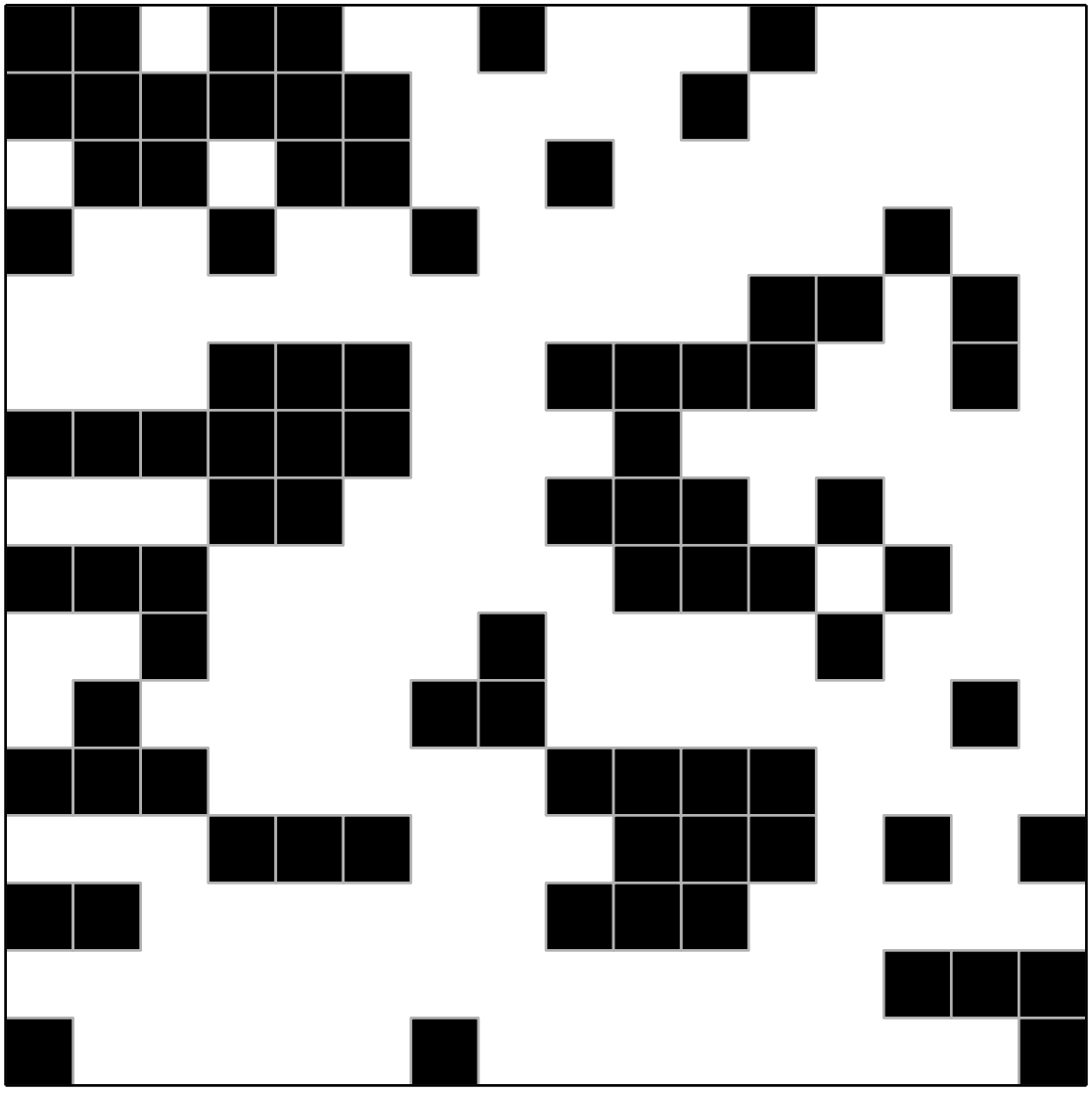
lib3_s9_1-05 16x16 (86) con: 8, var: 8

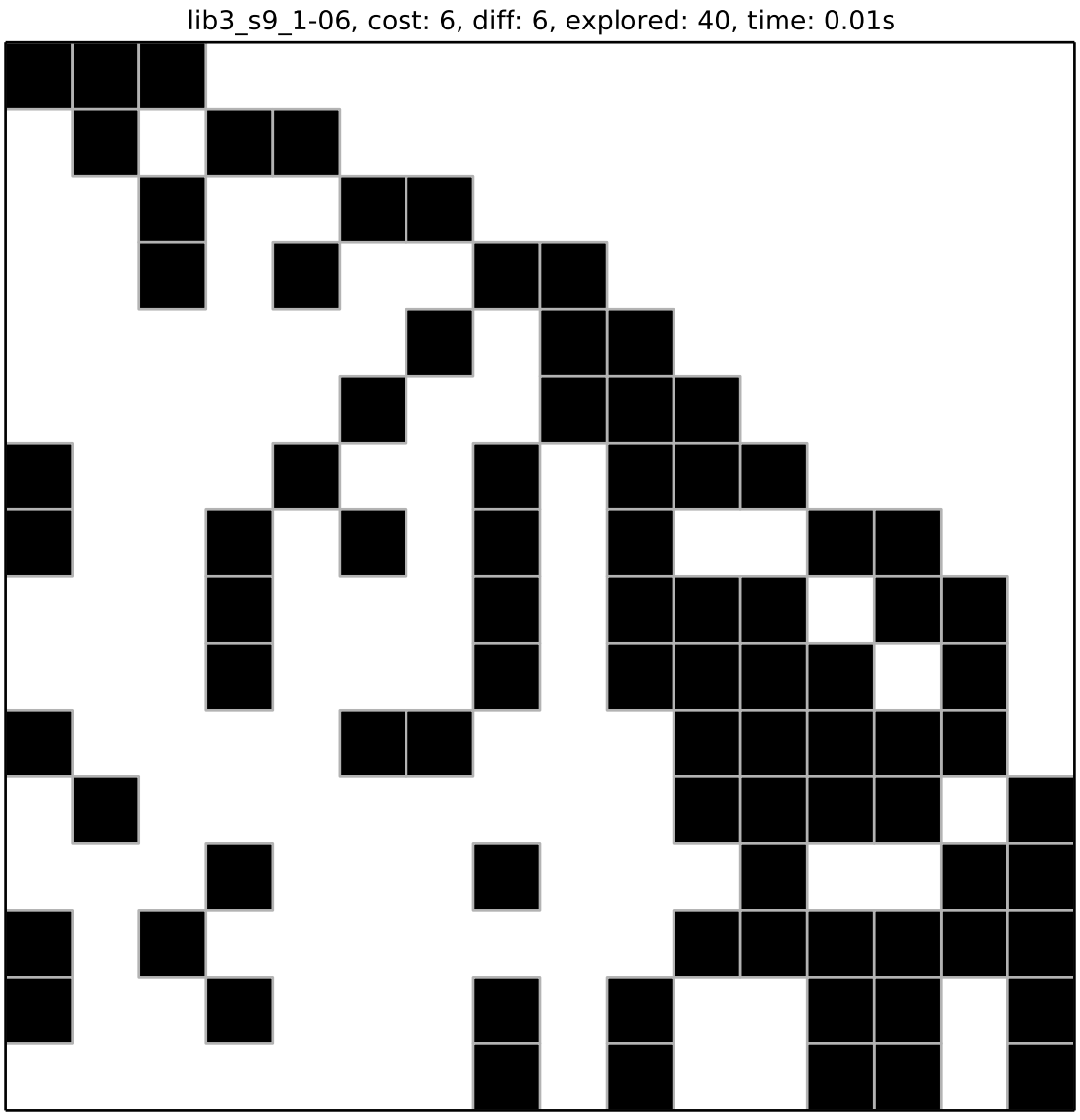


lib3_s9_1-05, cost: 6, diff: 6, explored: 41, time: 0.01s

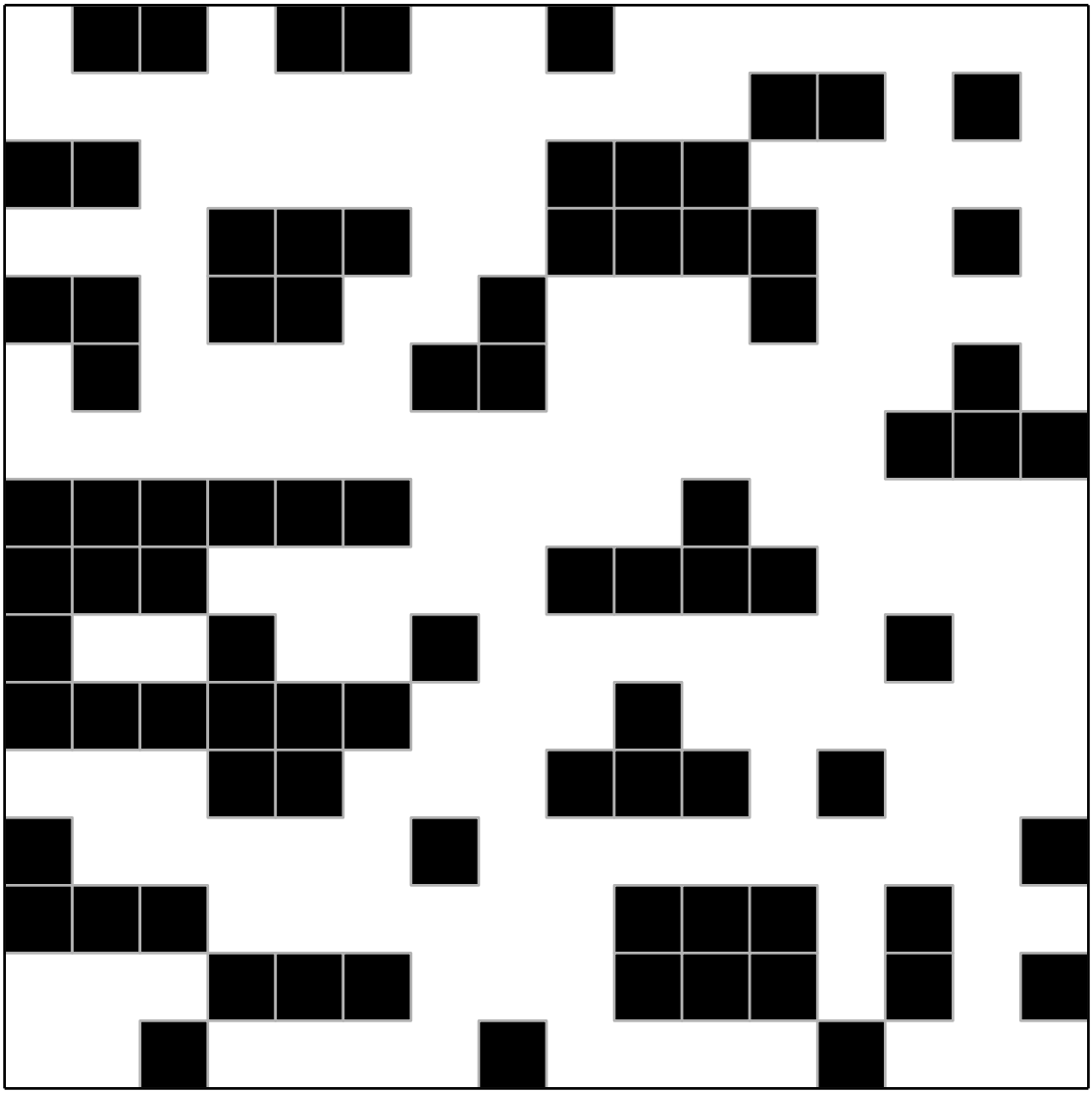


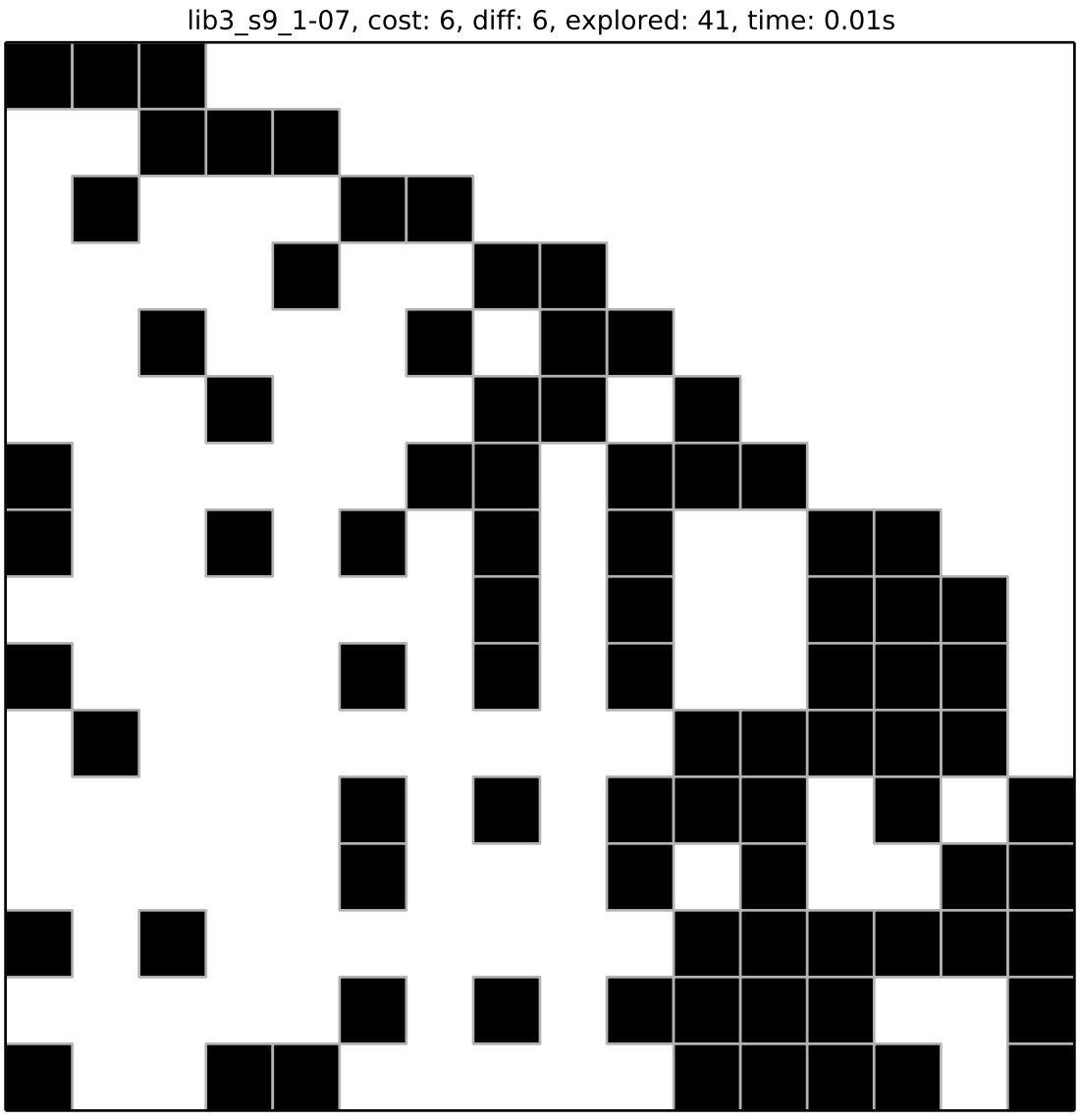
lib3_s9_1-06 16x16 (86) con: 8, var: 8



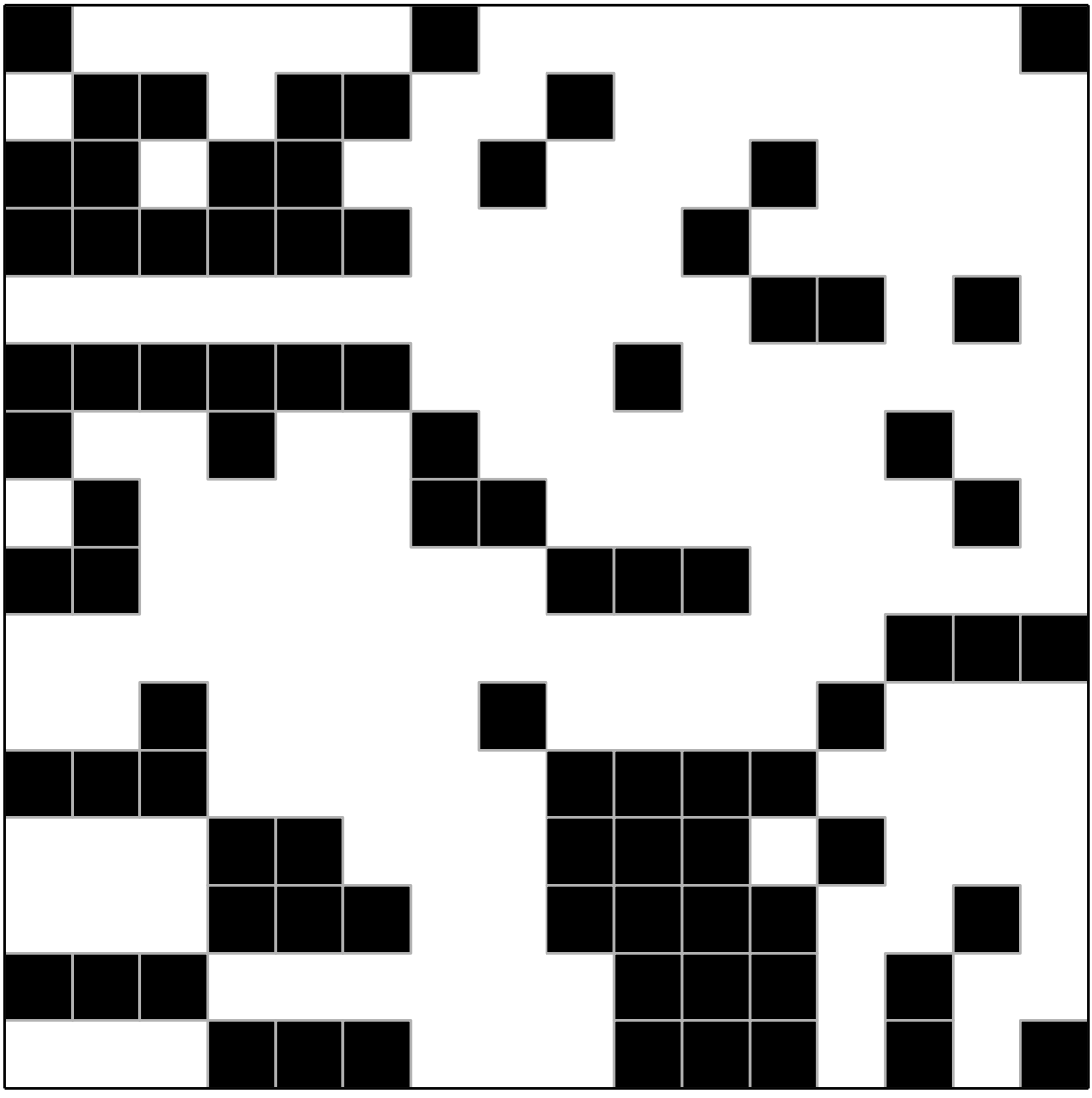

lib3_s9_1-06, cost: 6, diff: 6, explored: 40, time: 0.01s

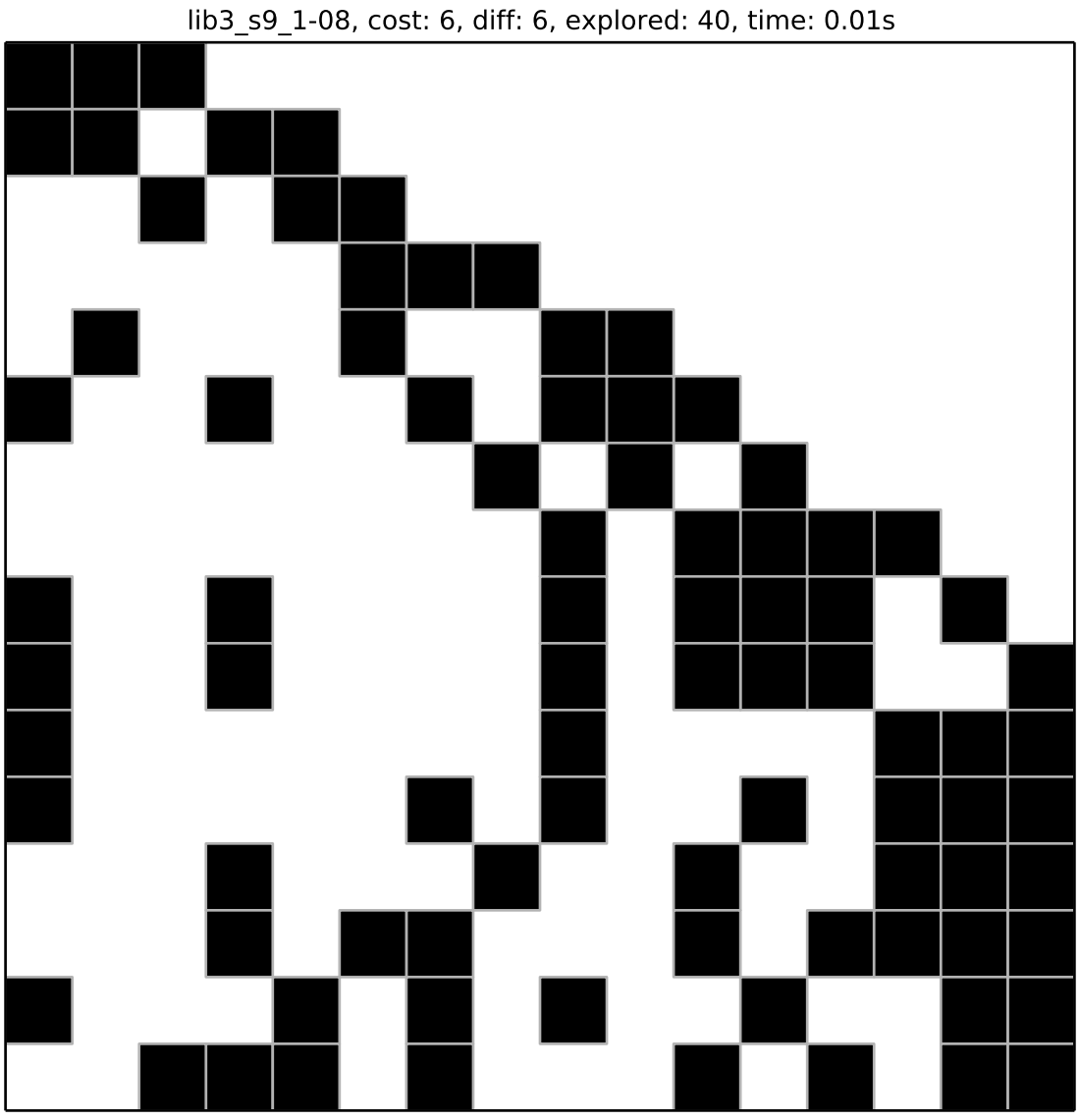
lib3_s9_1-07 16x16 (86) con: 8, var: 8




lib3_s9_1-07, cost: 6, diff: 6, explored: 41, time: 0.01s

lib3_s9_1-08 16x16 (86) con: 8, var: 8

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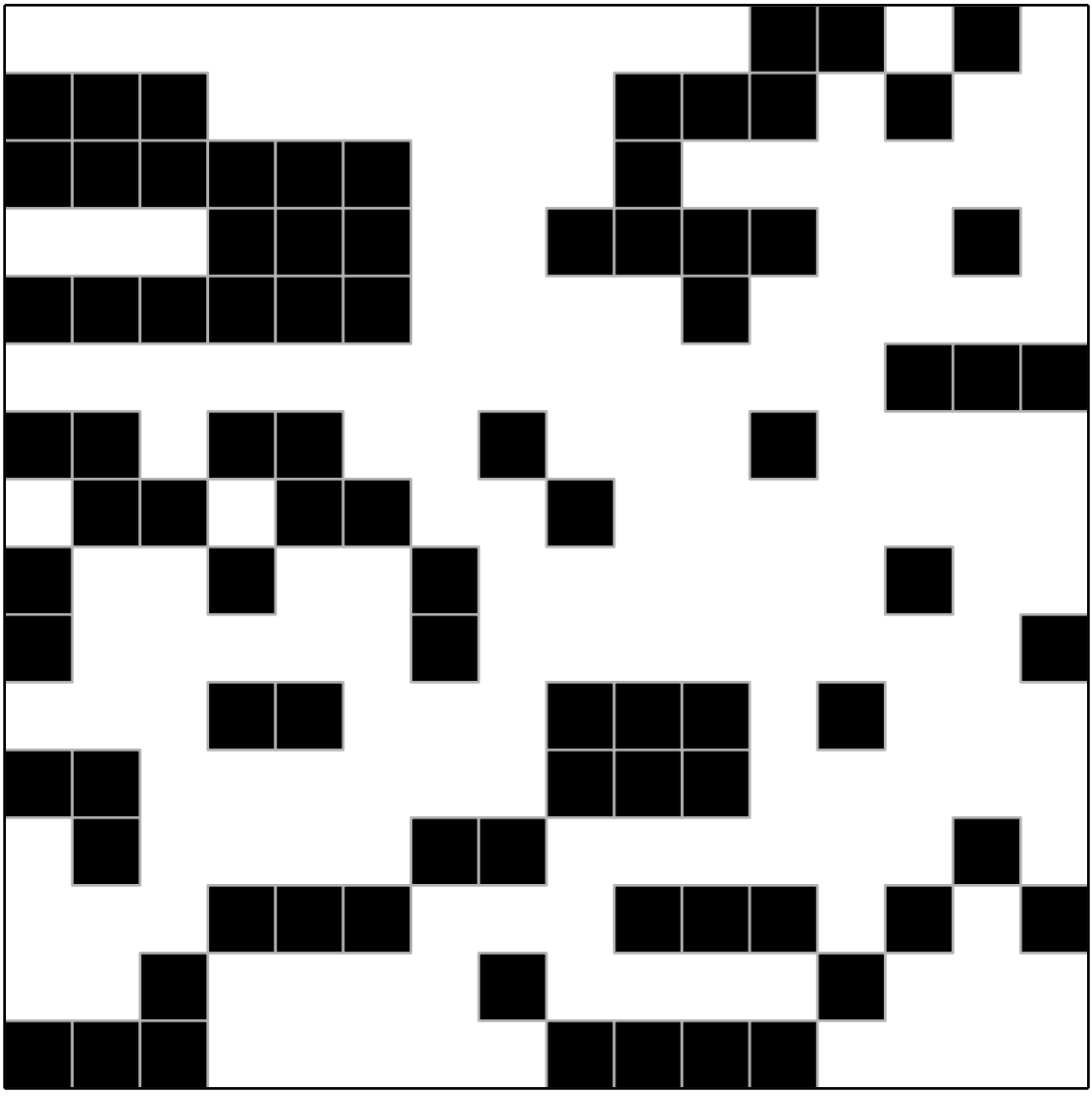
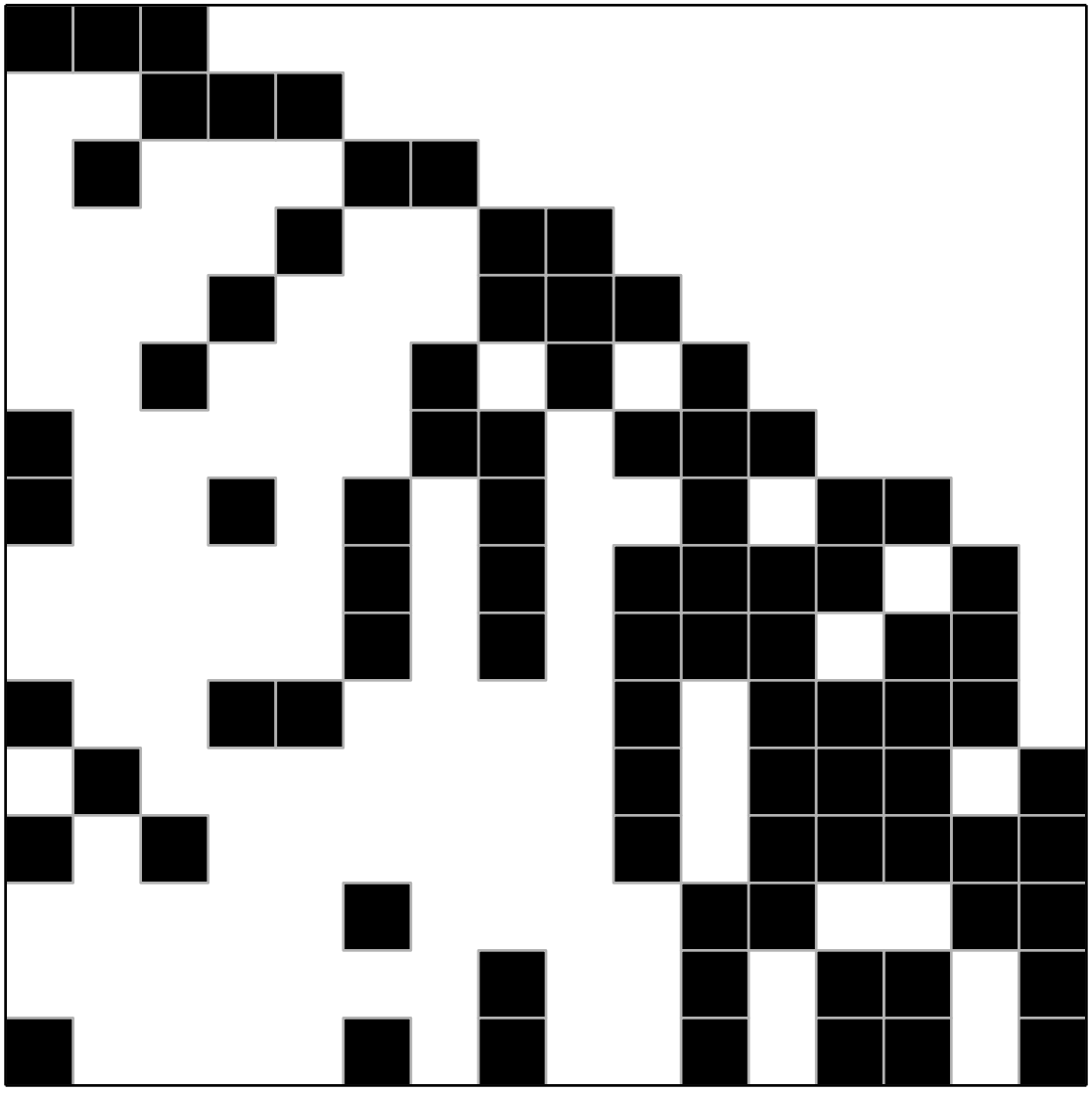
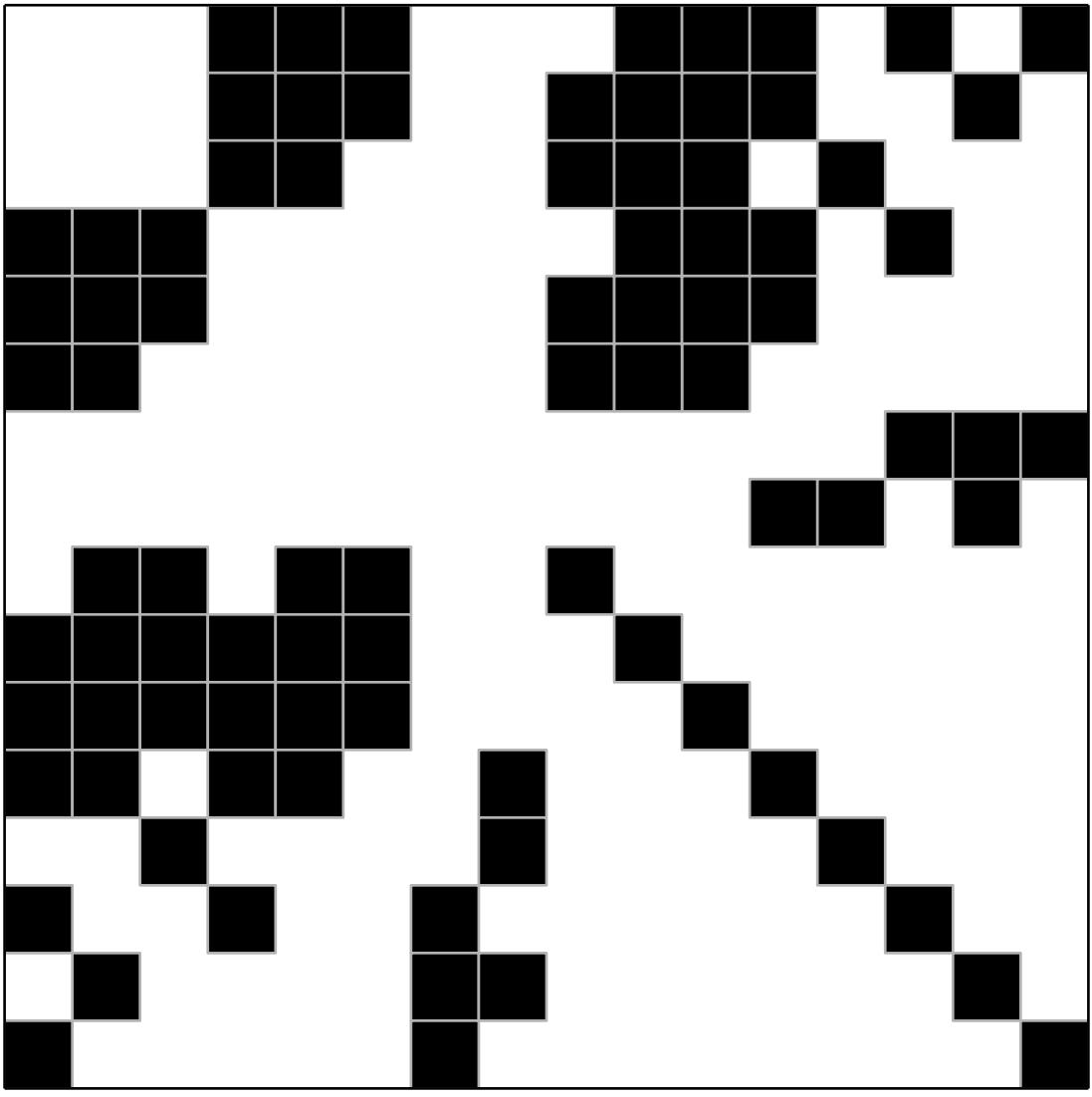
lib3_s9_1-09 16x16 (86) con: 8, var: 8



lib3_s9_1-09, cost: 6, diff: 6, explored: 41, time: 0.01s



lib3_s9_1-IN 16x16 (86) con: 8, var: 8



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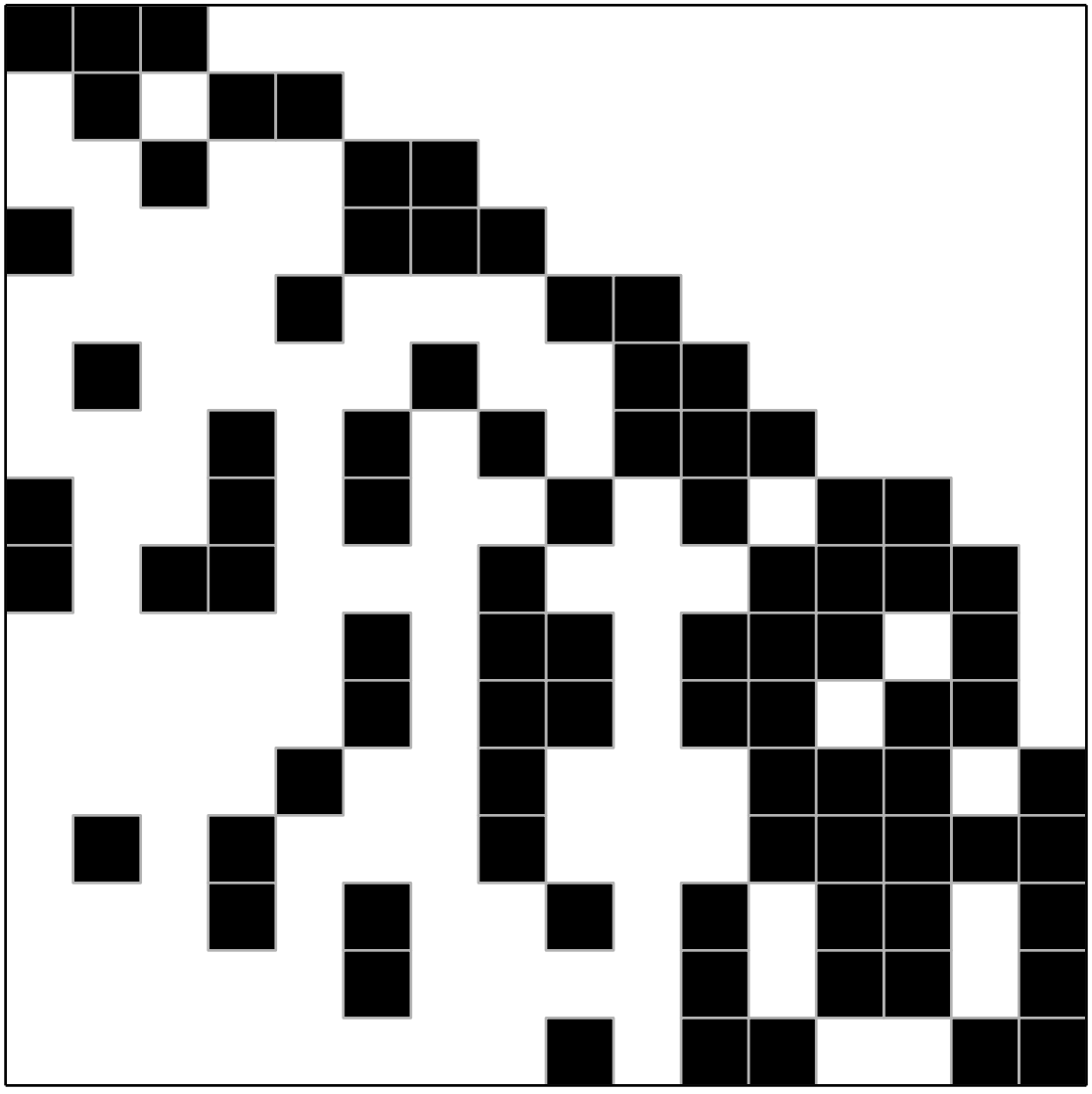
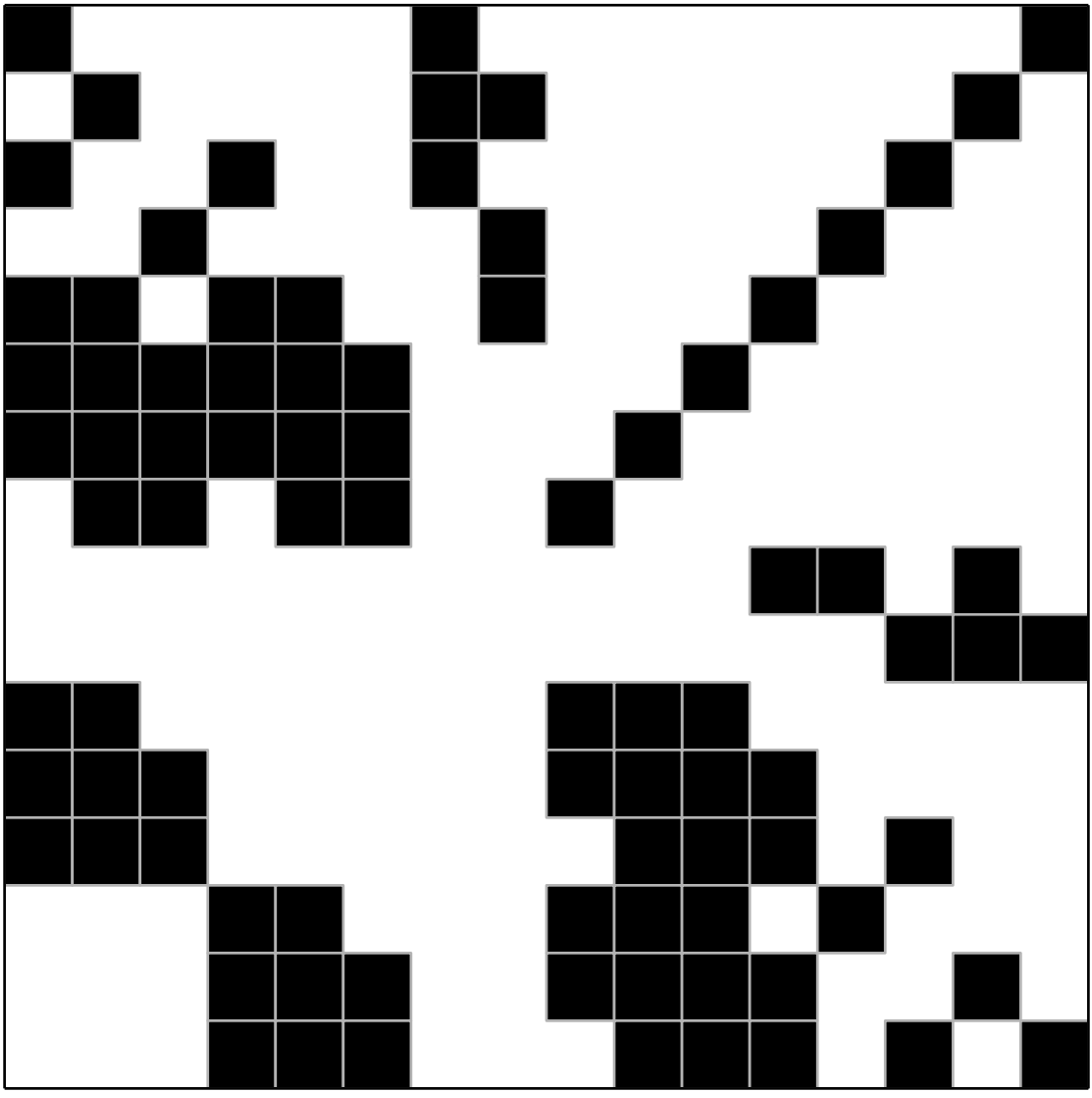


lib3_s9_1-RE 16x16 (86) con: 8, var: 8



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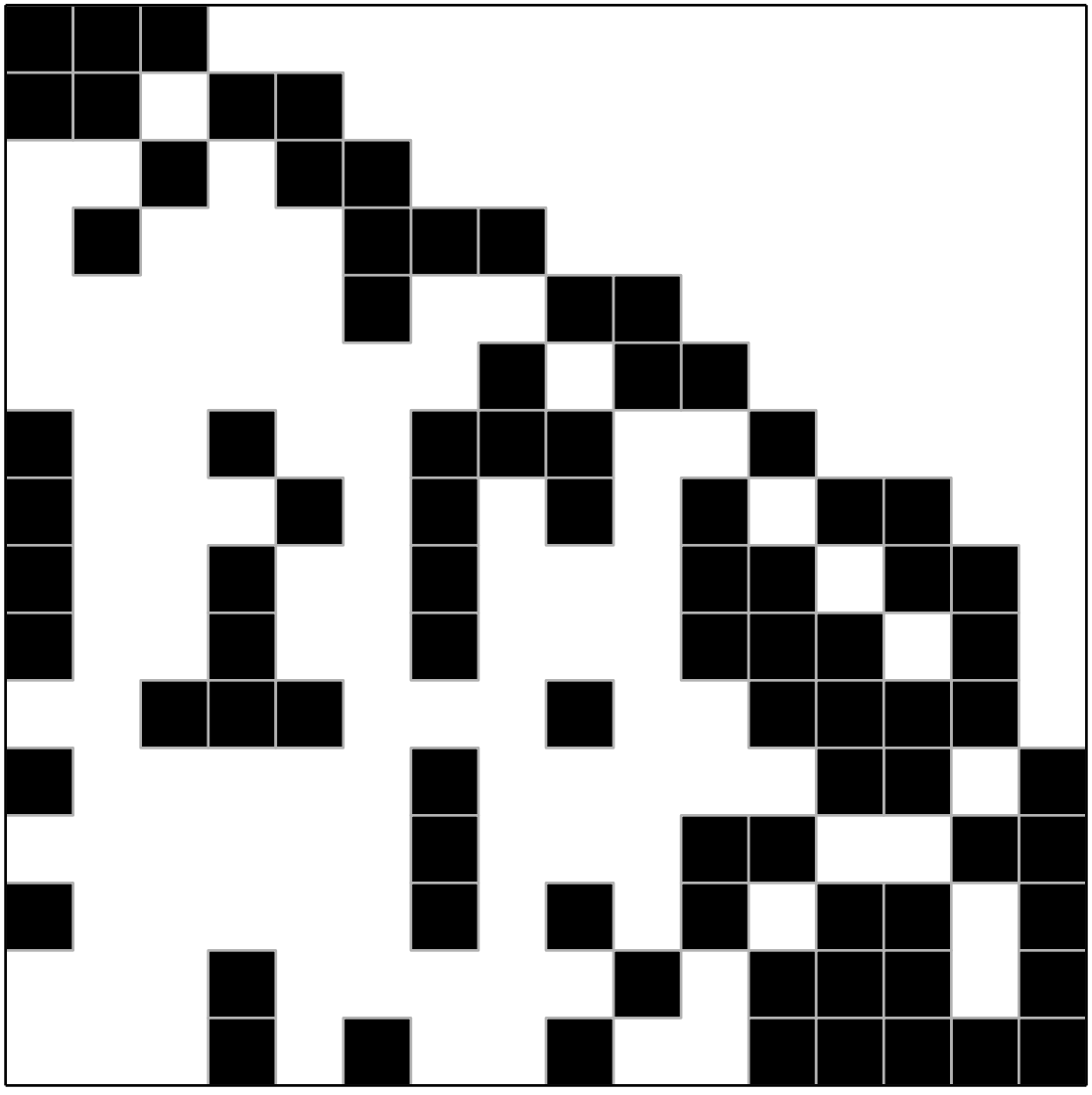
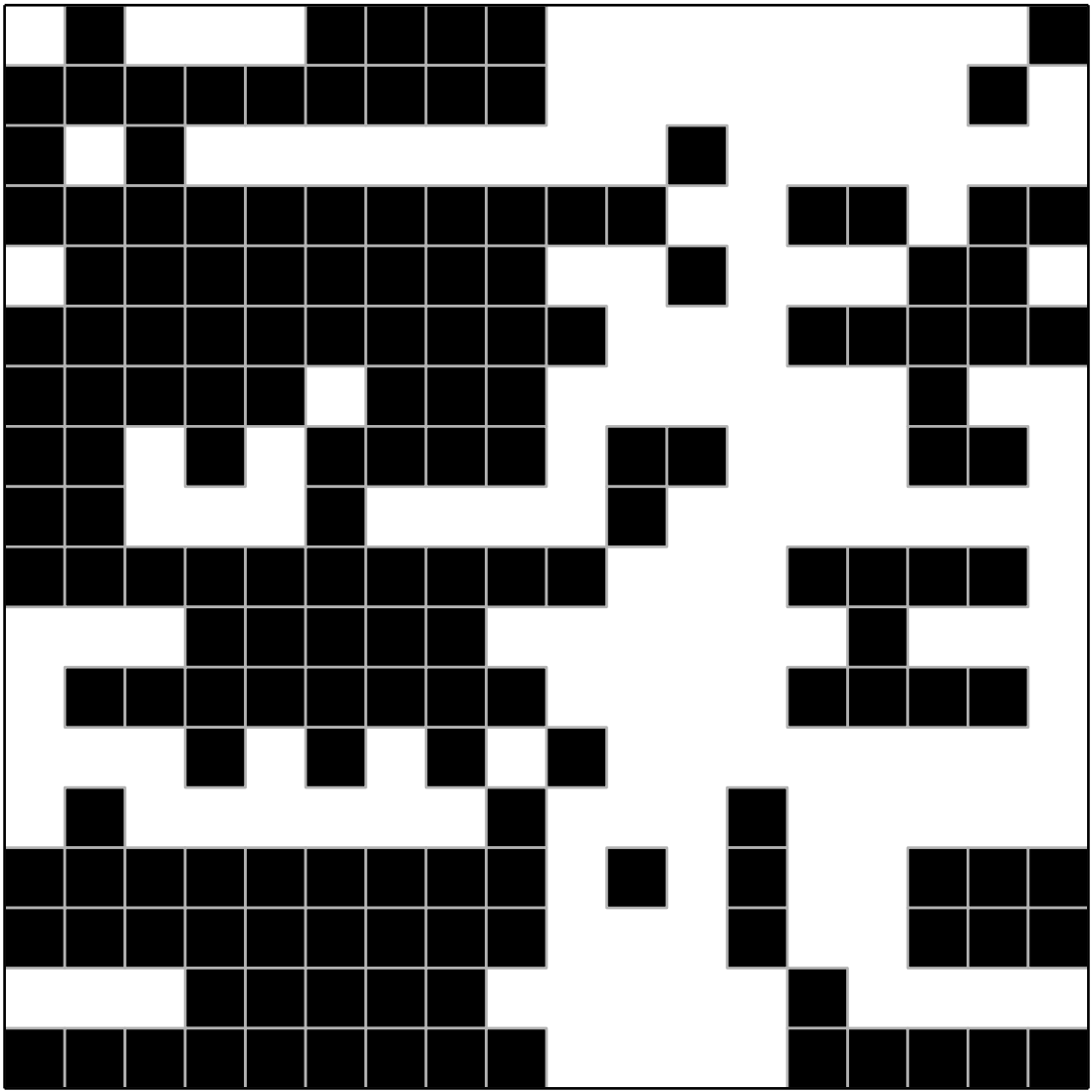
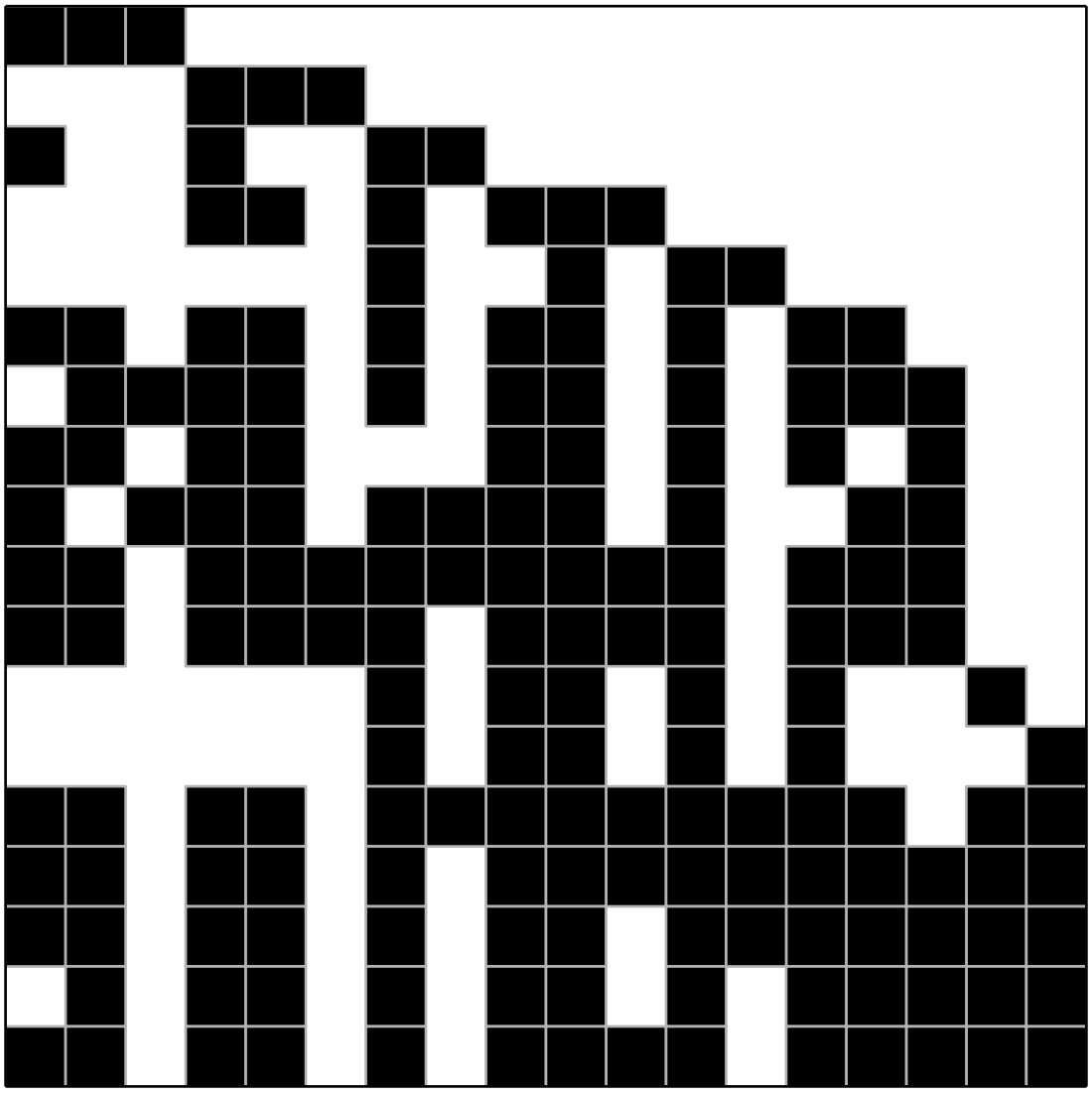
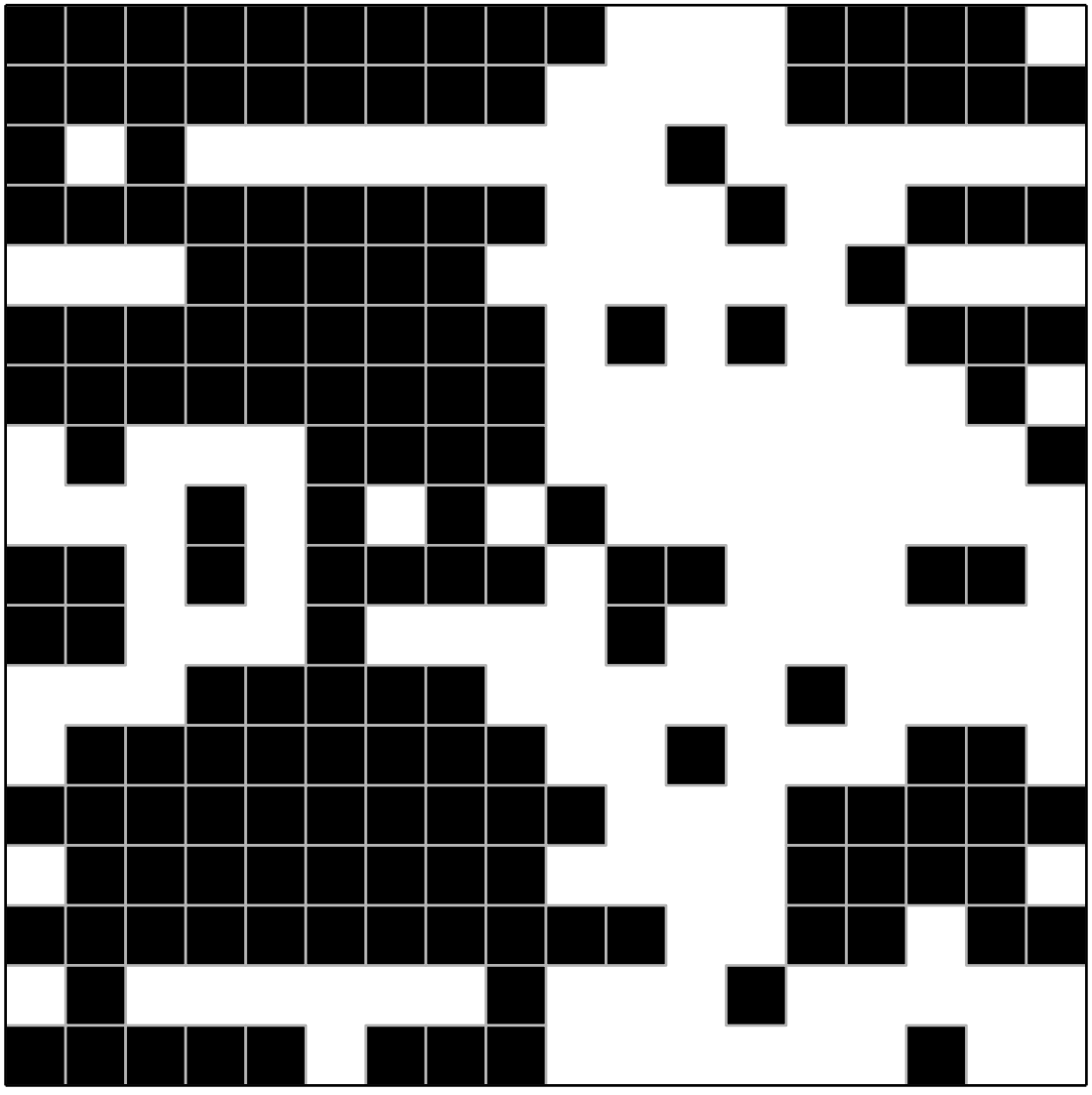


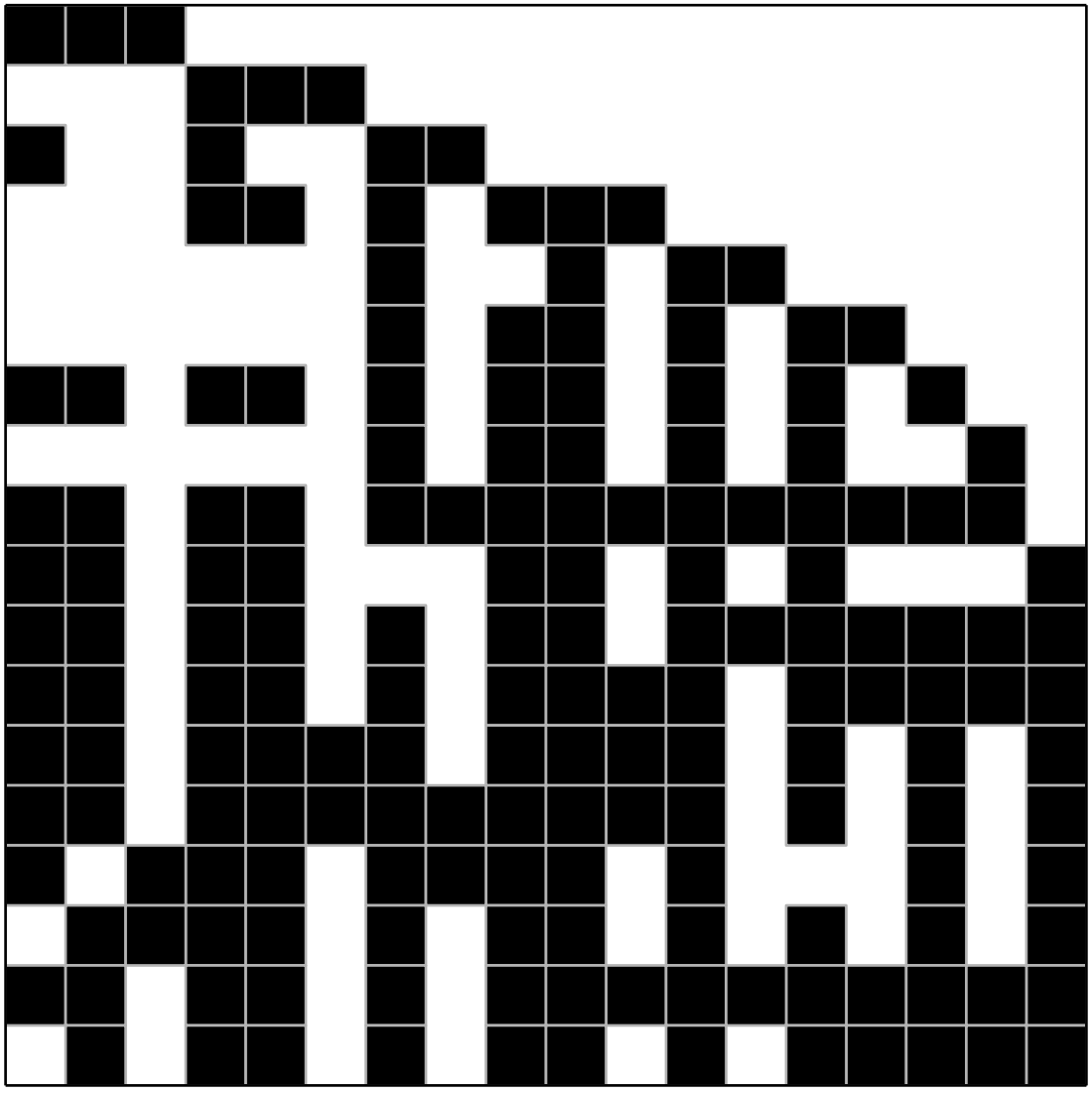
lib3_seyfertfilter-00 18x18 (170) con: 9, var: 9



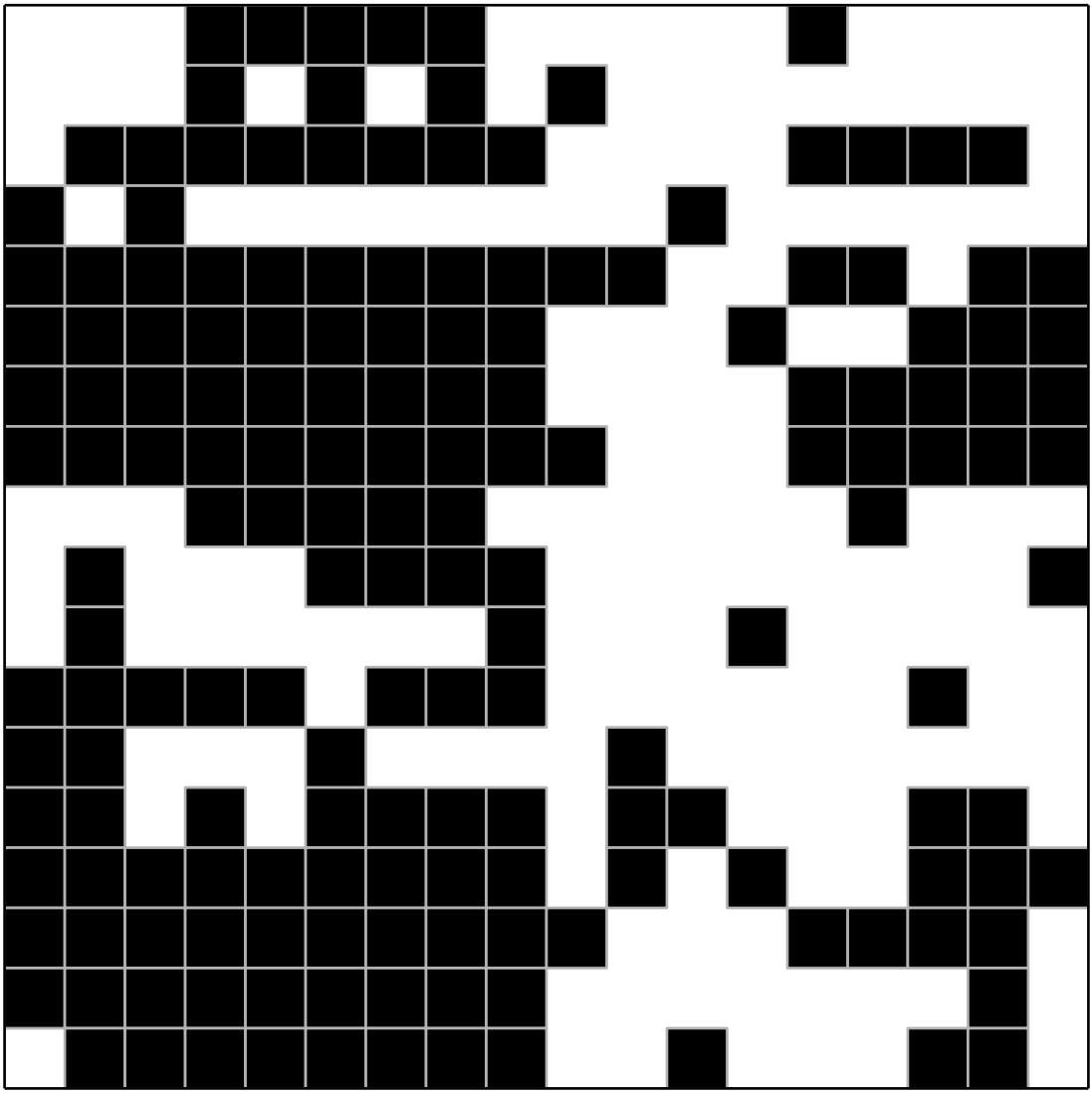

lib3_seyfertfilter-00, cost: 9, diff: 9, explored: 69, time: 0.02s

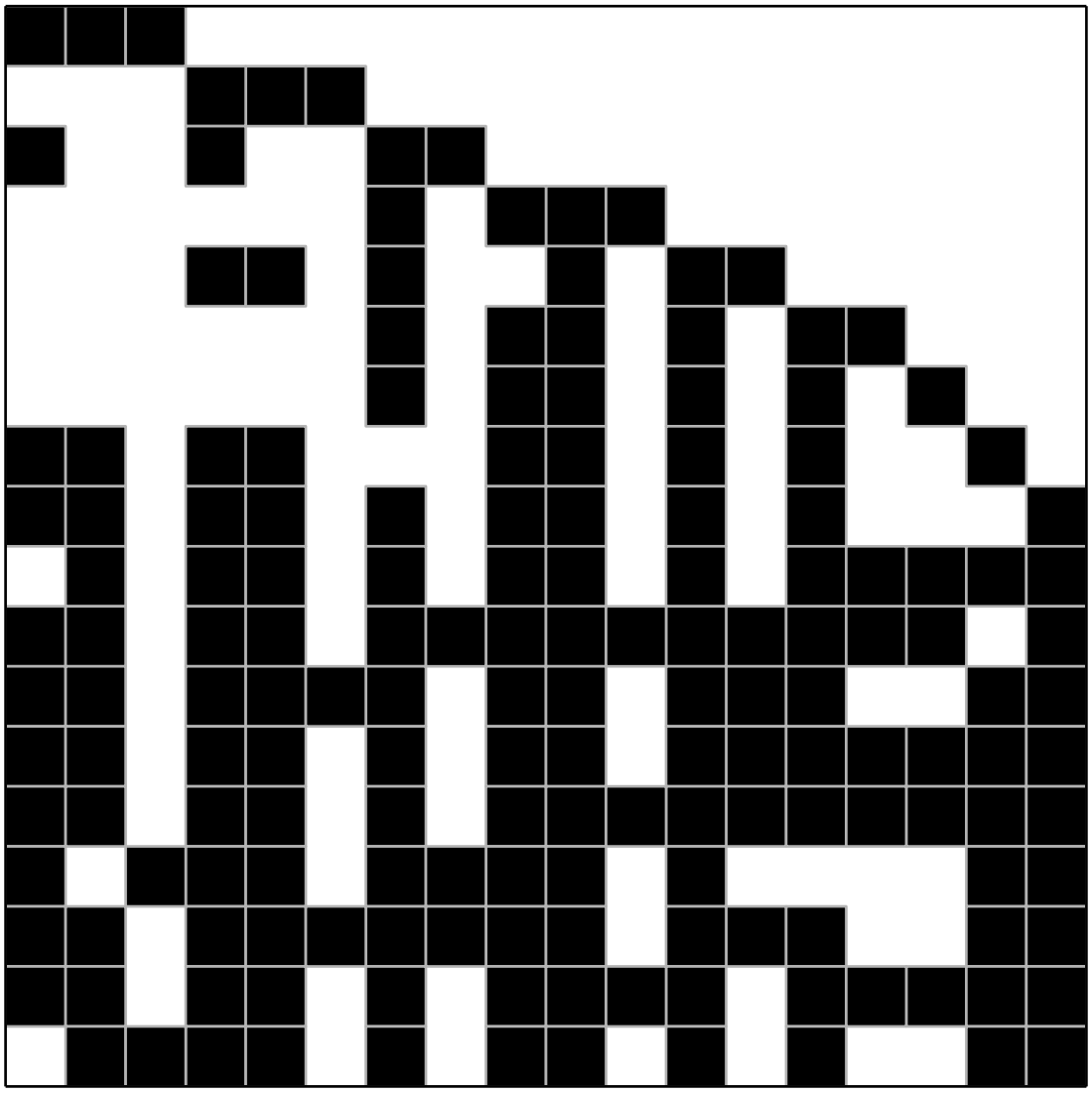
lib3_seyfertfilter-01 18x18 (170) con: 9, var: 9




lib3_seyfertfilter-01, cost: 9, diff: 9, explored: 70, time: 0.02s

lib3_seyfertfilter-02 18x18 (170) con: 9, var: 9

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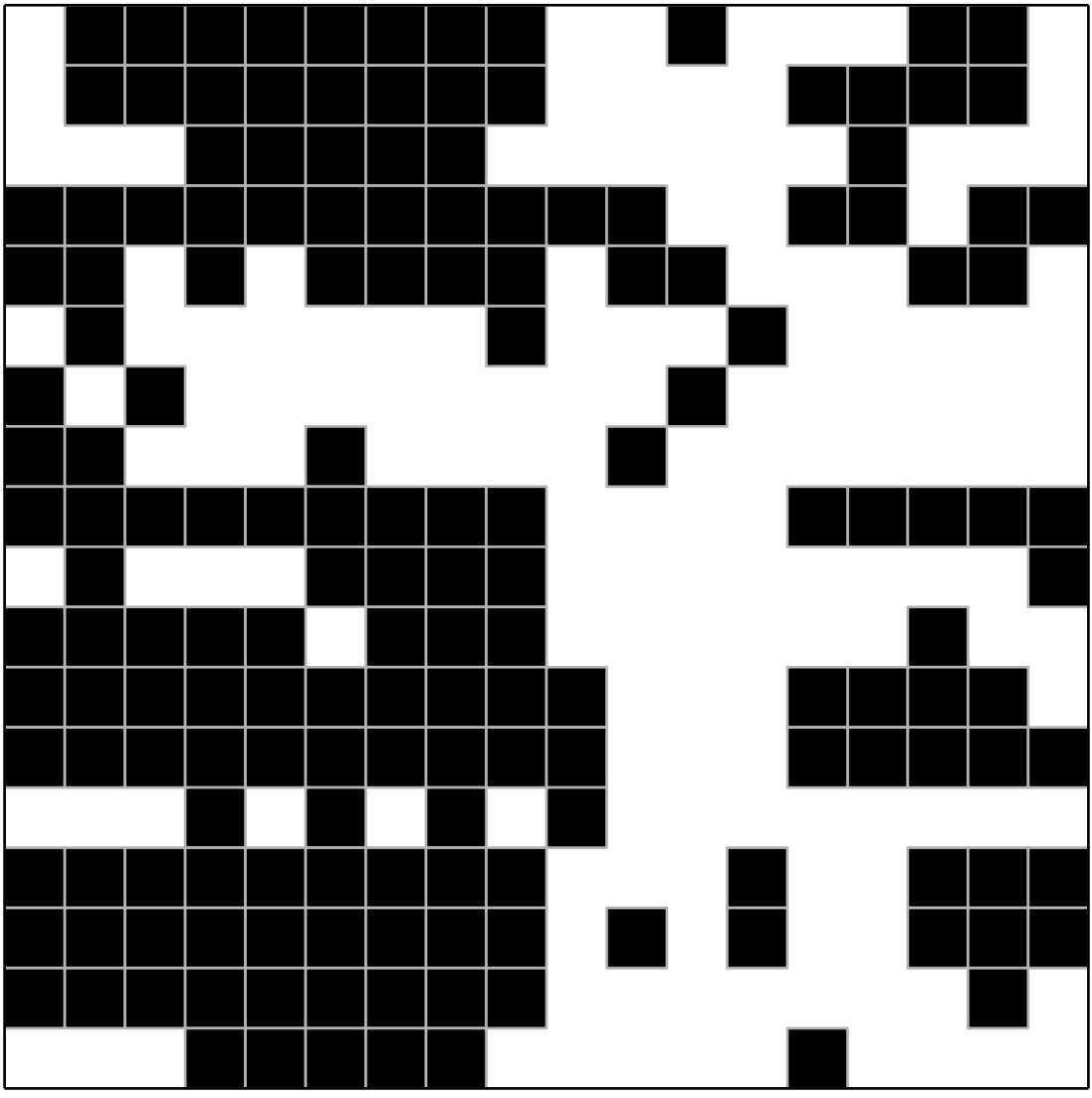
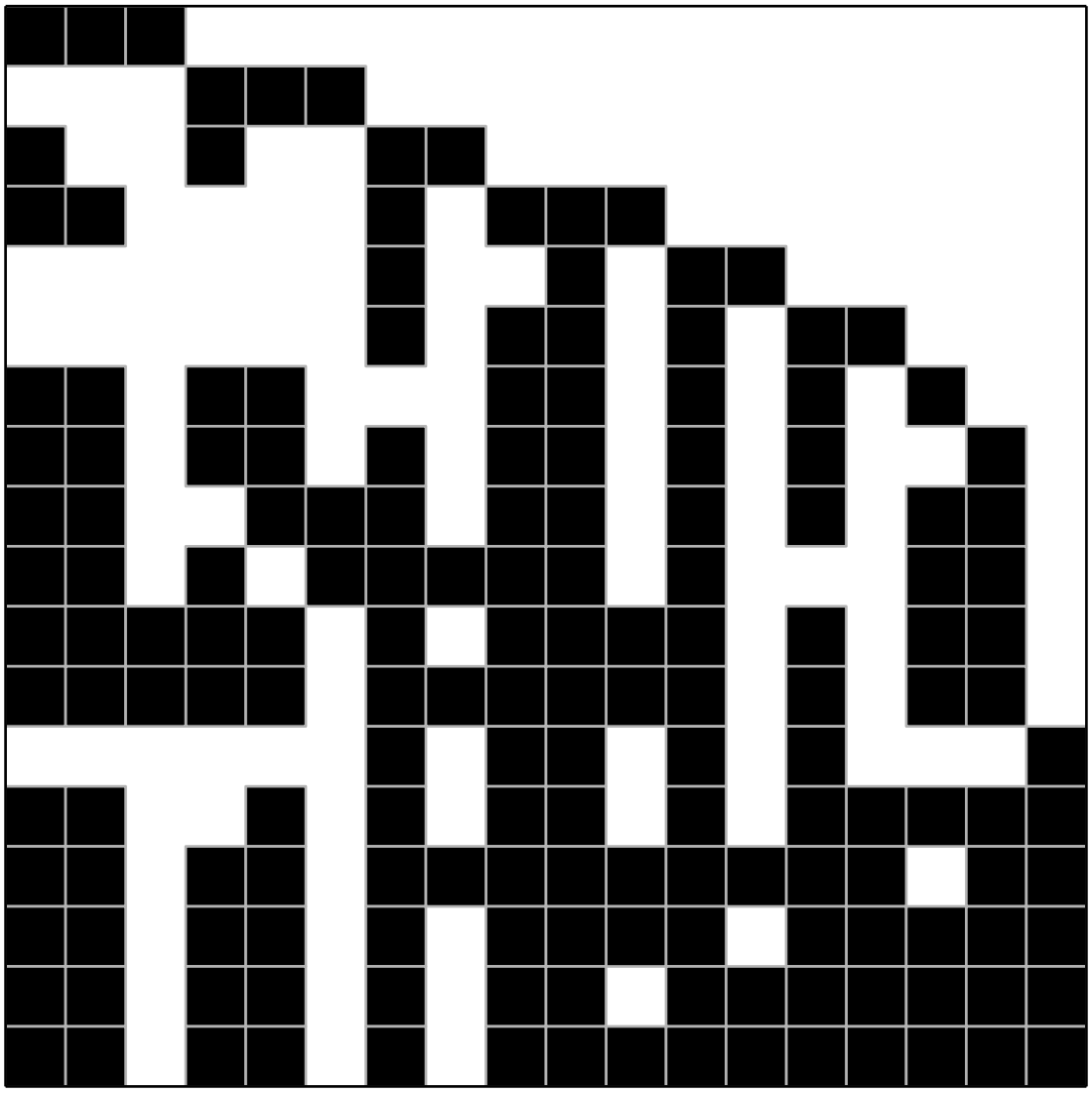
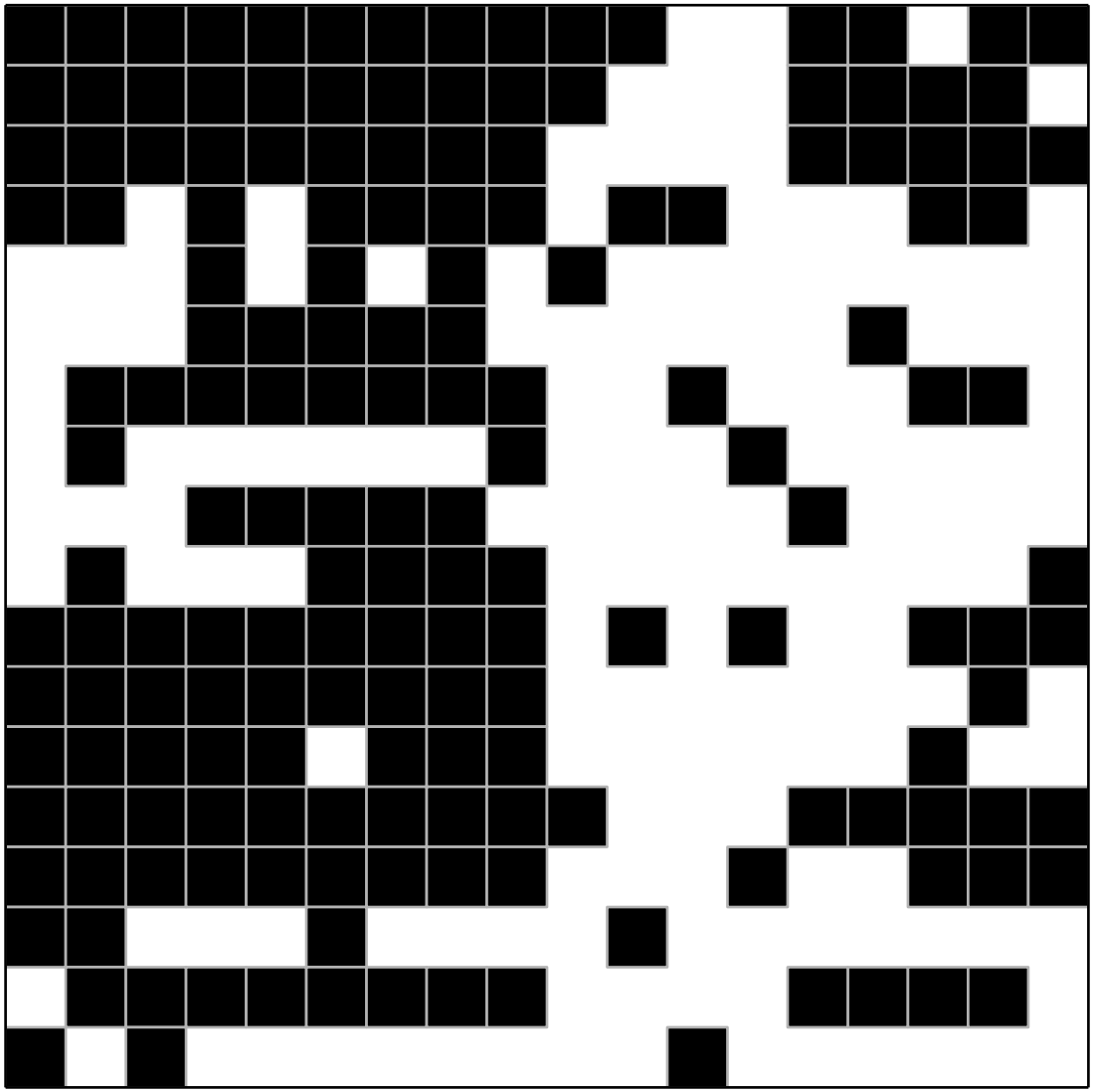
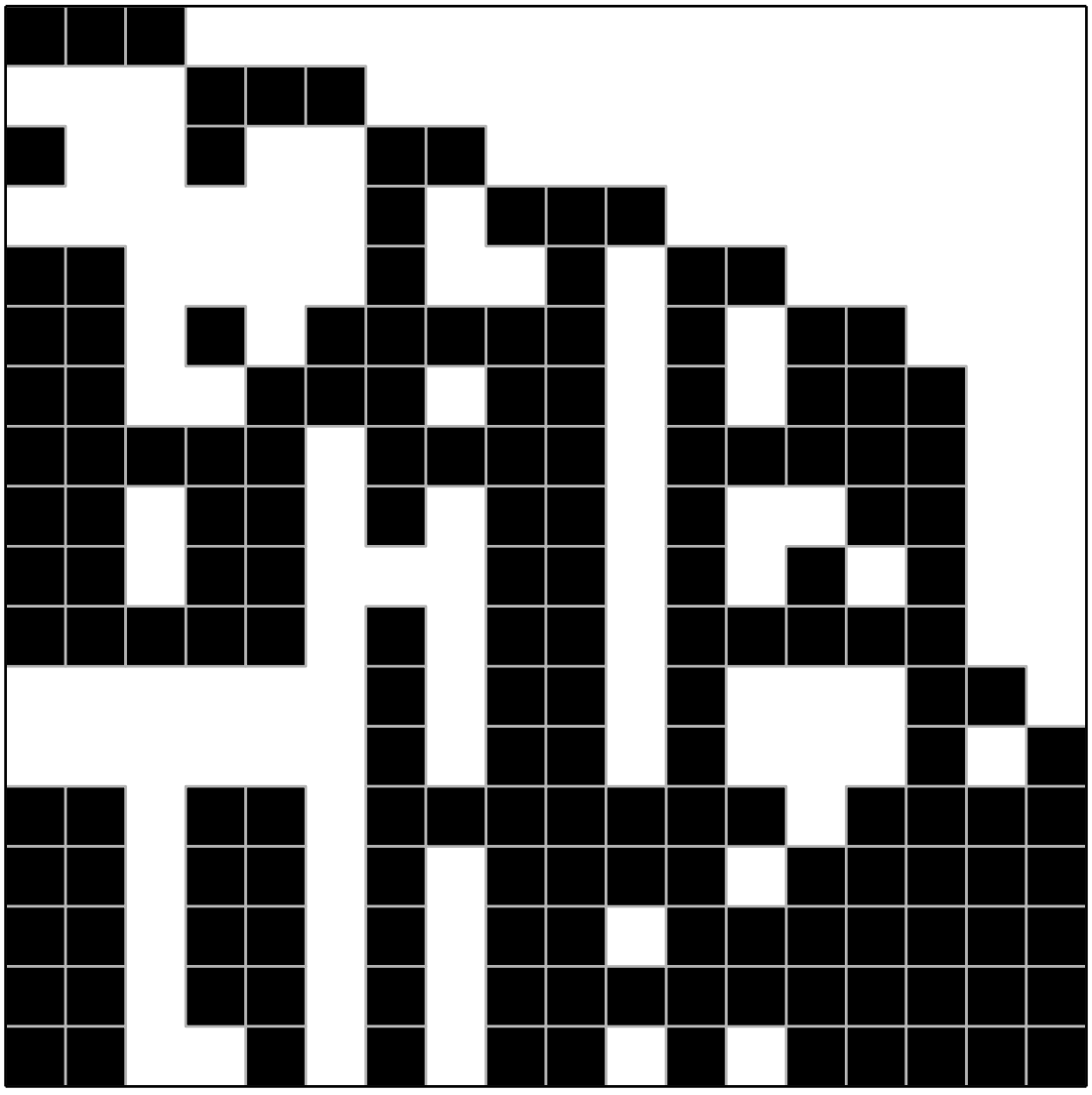
lib3_seyfertfilter-03 18x18 (170) con: 9, var: 9




lib3_seyfertfilter-03, cost: 9, diff: 9, explored: 69, time: 0.02s

lib3_seyfertfilter-04 18x18 (170) con: 9, var: 9

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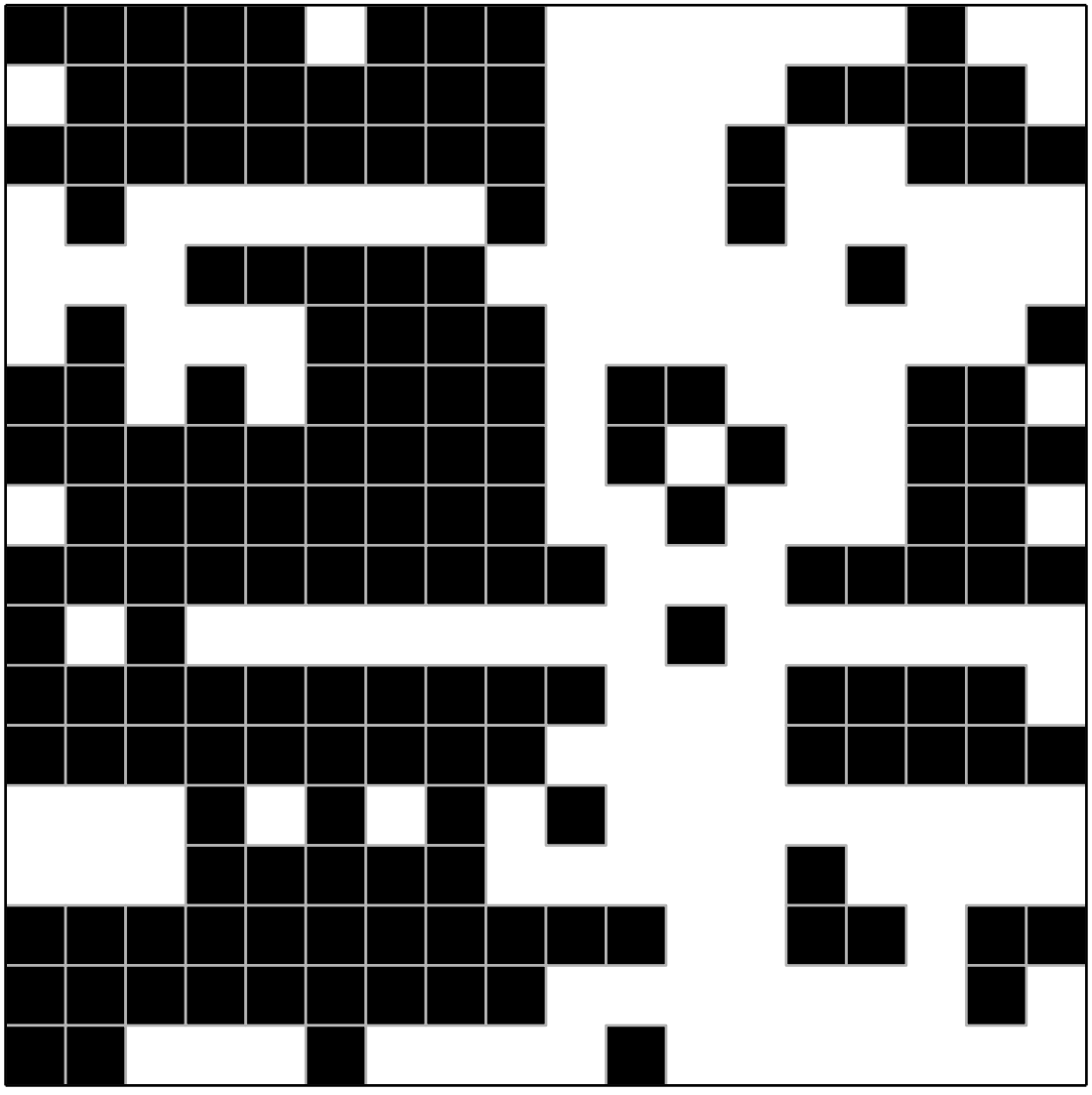
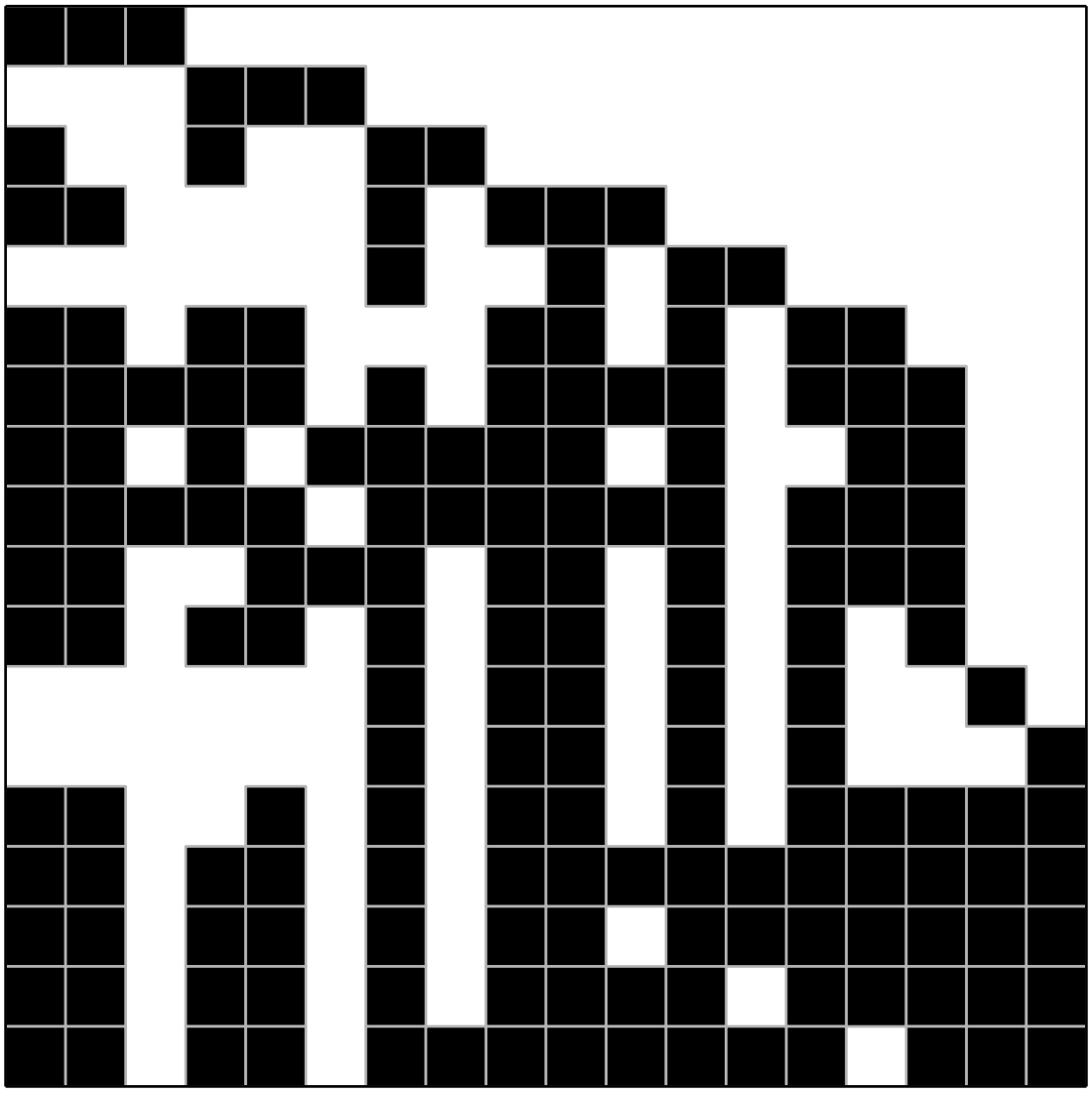
lib3_seyfertfilter-05 18x18 (170) con: 9, var: 9

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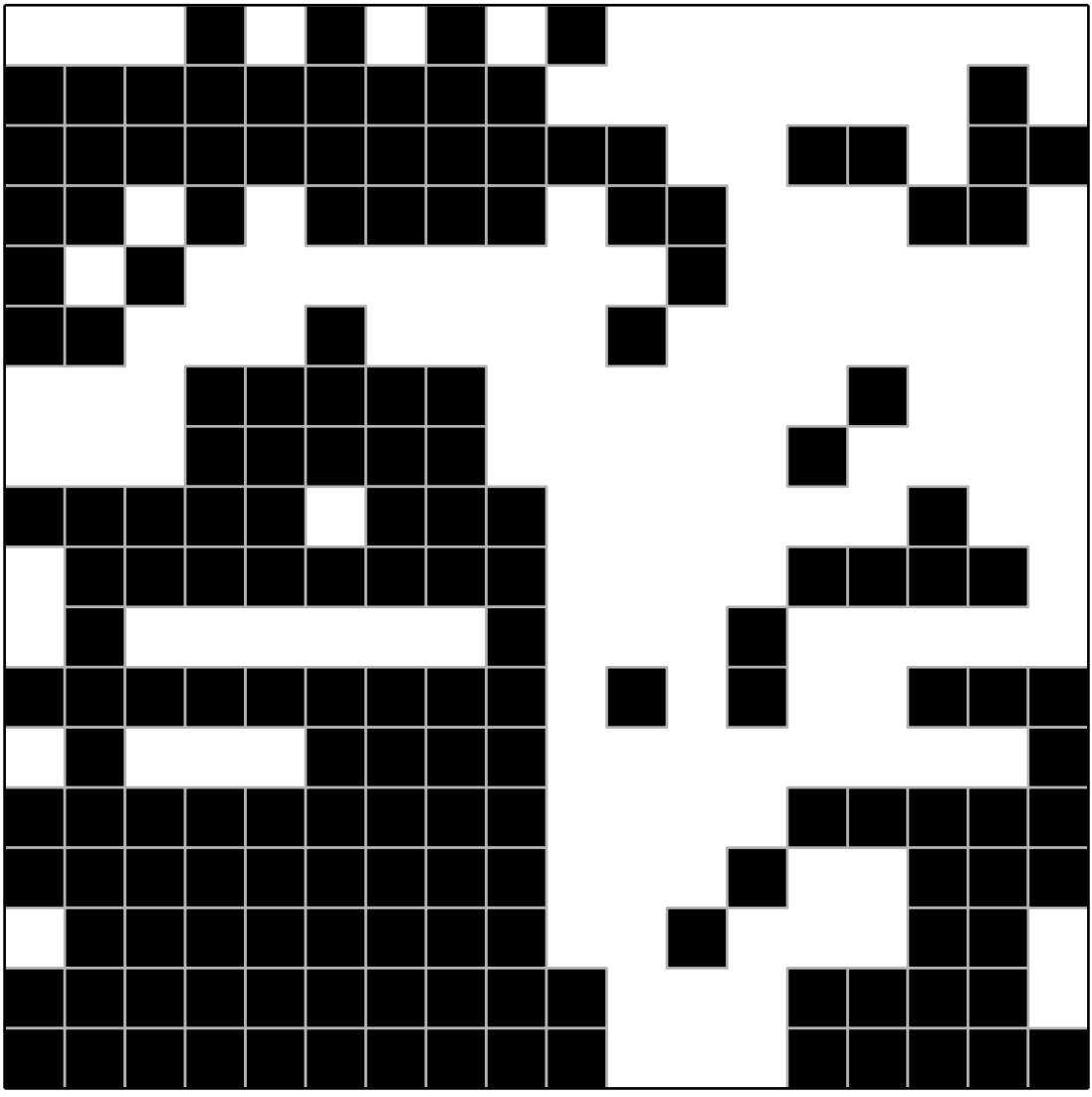
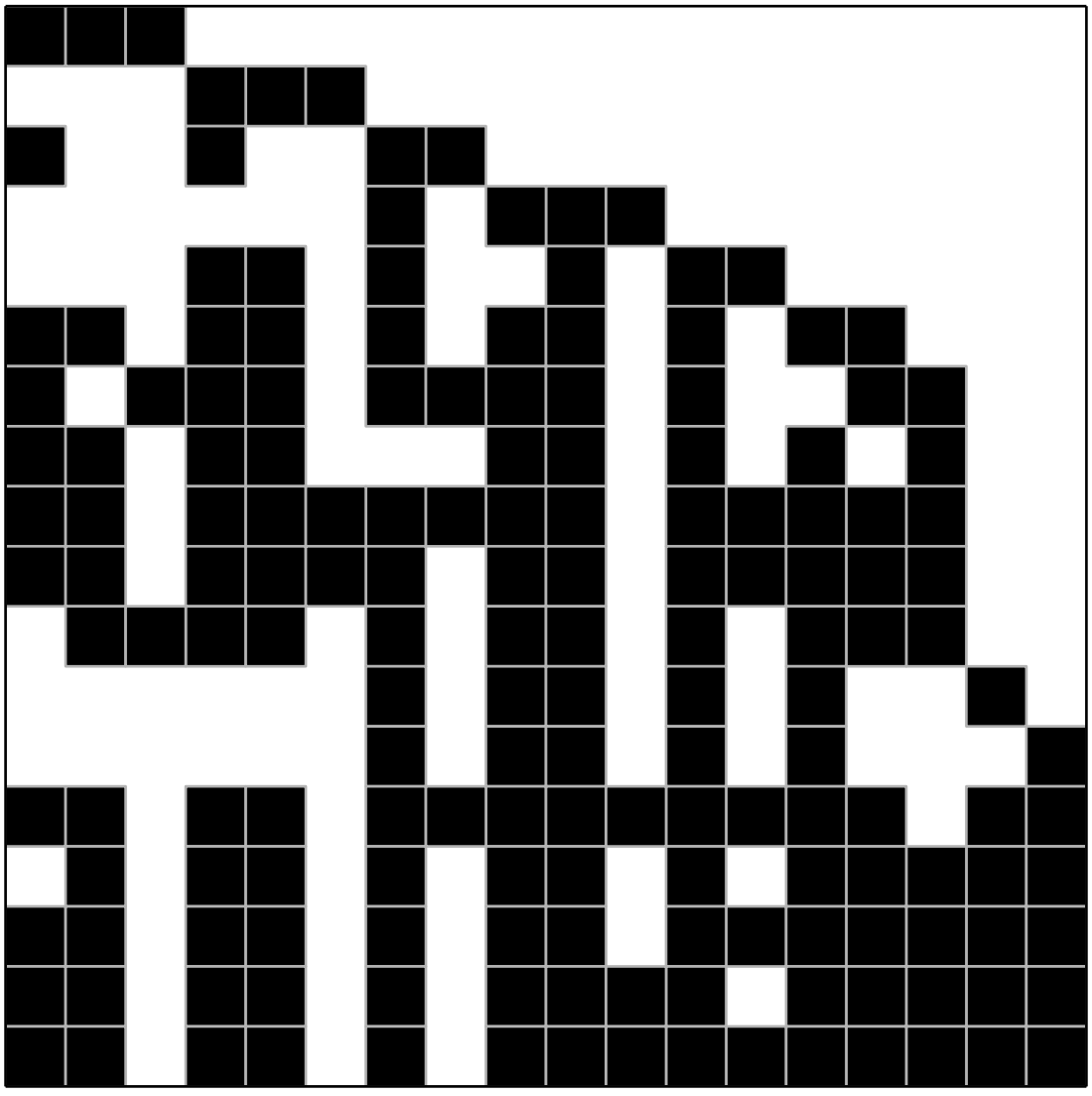
lib3_seyfertfilter-06 18x18 (170) con: 9, var: 9

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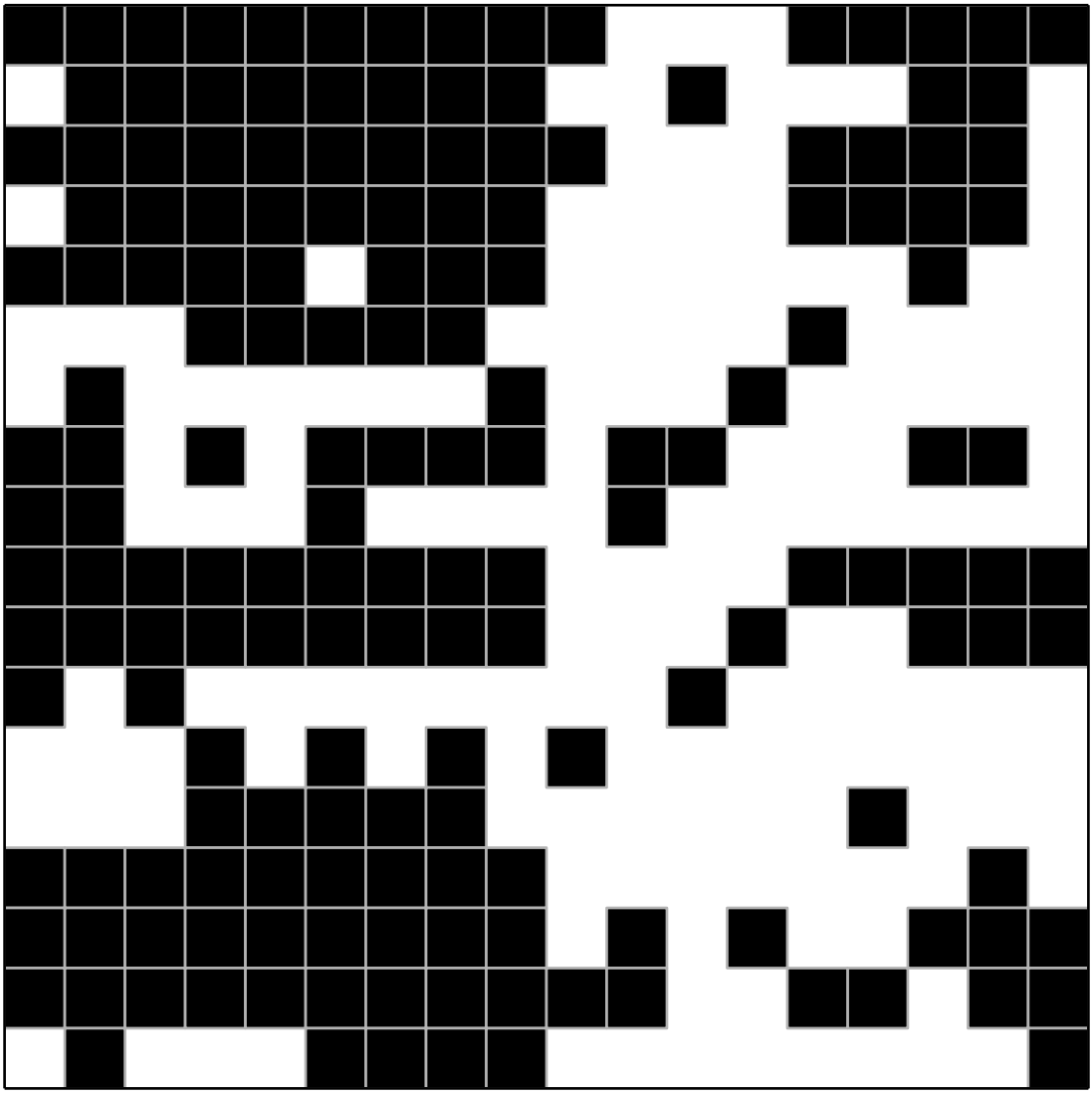
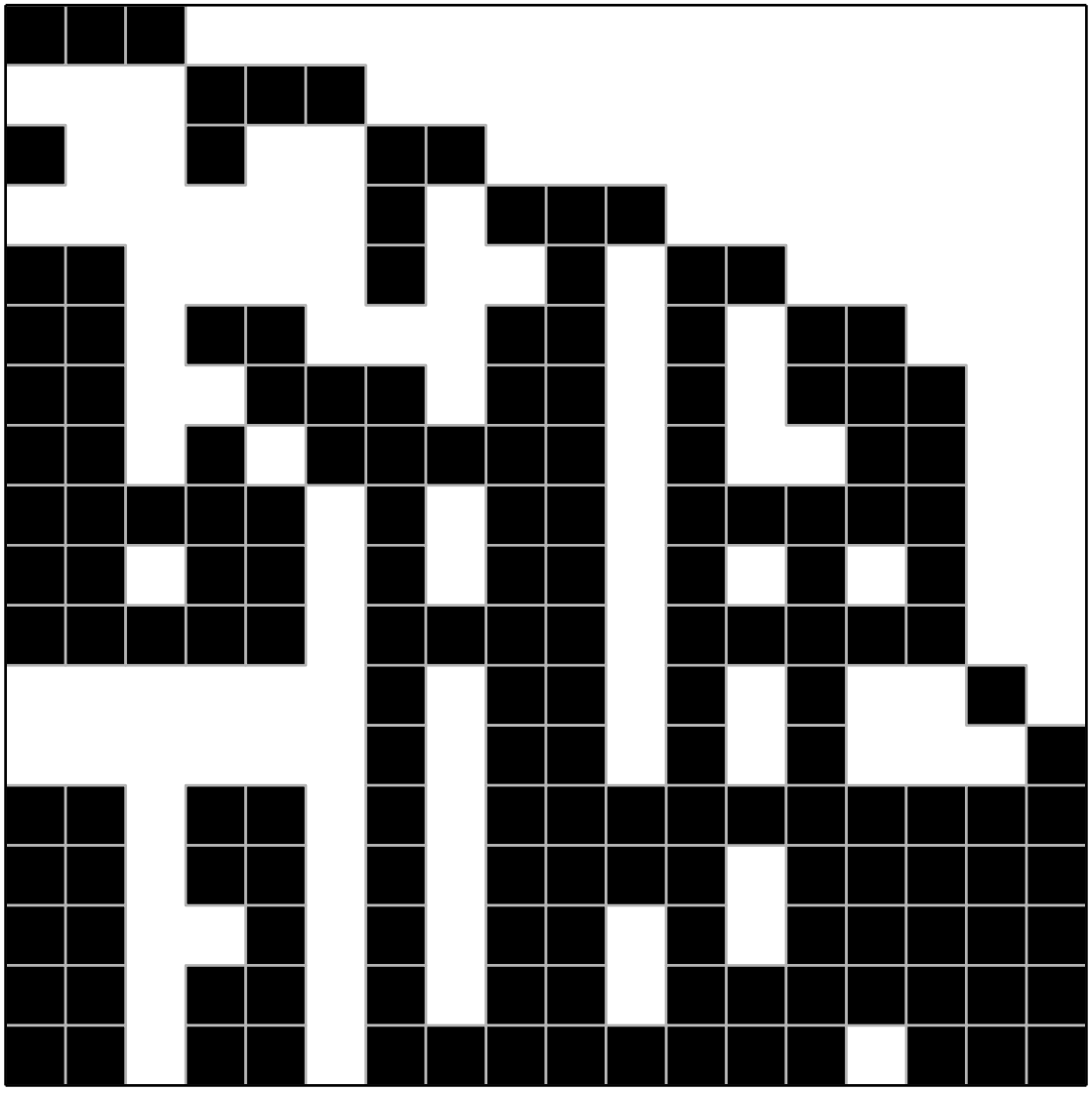
lib3_seyfertfilter-07 18x18 (170) con: 9, var: 9

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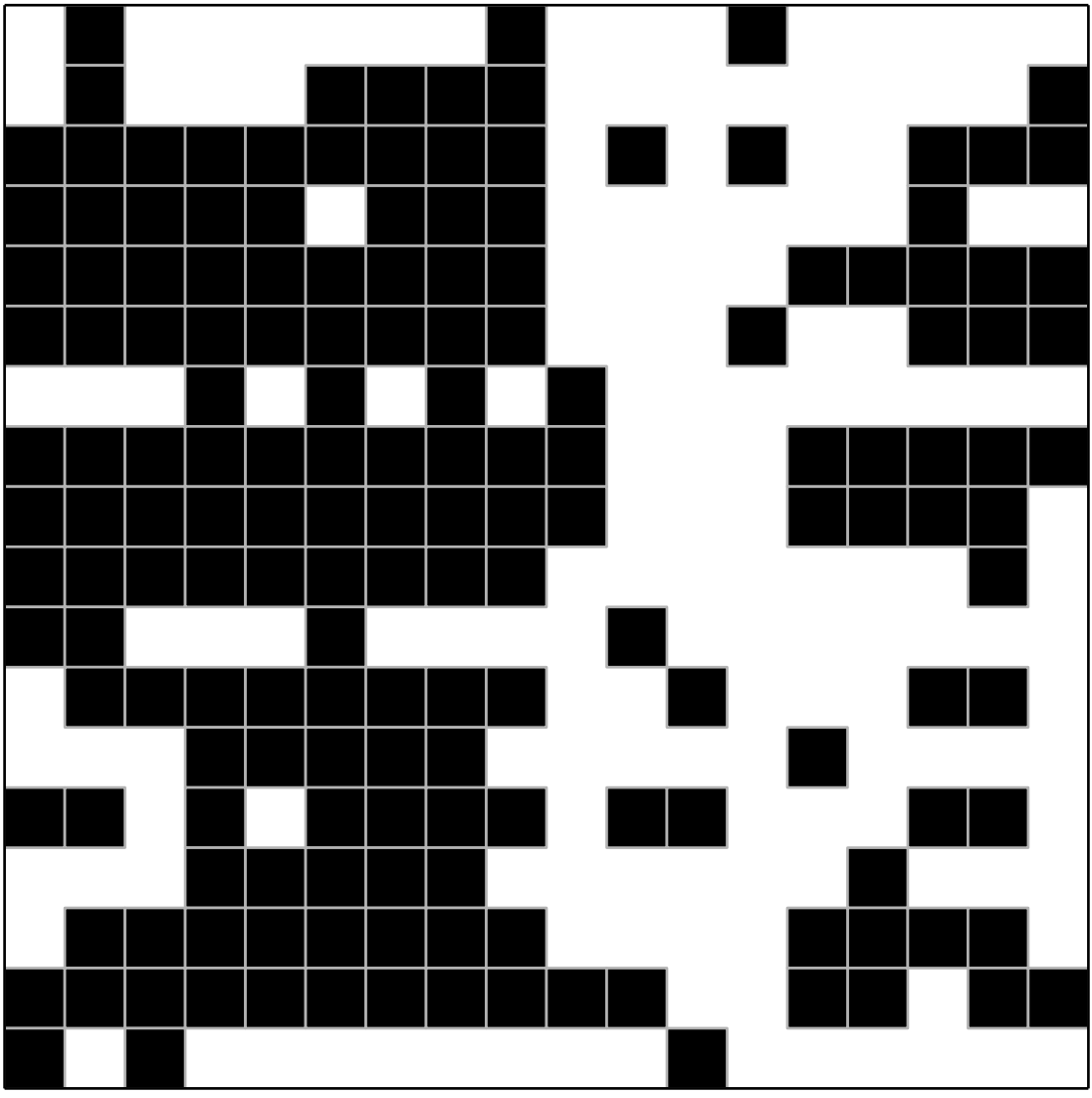
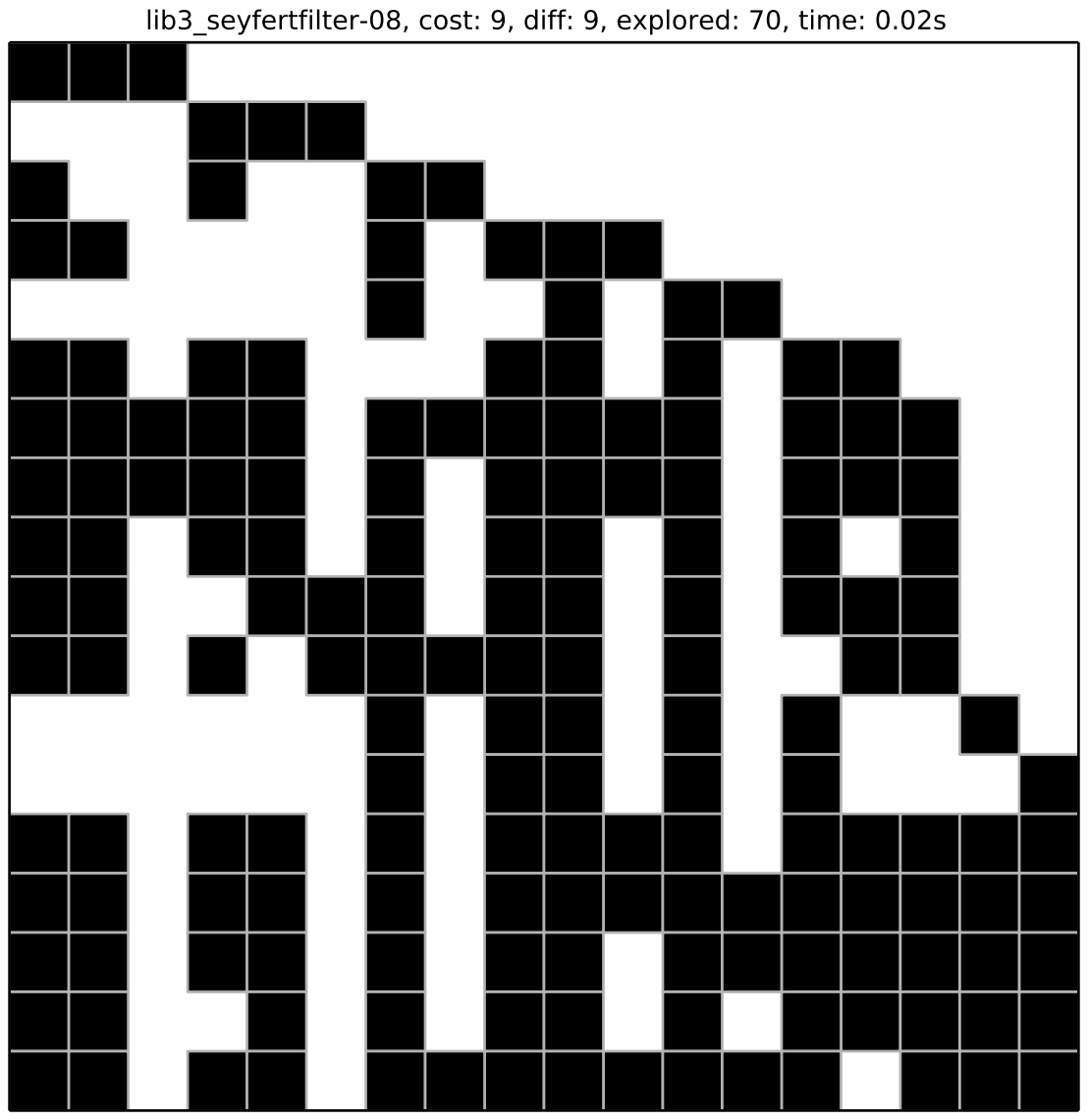
lib3_seyfertfilter-08 18x18 (170) con: 9, var: 9

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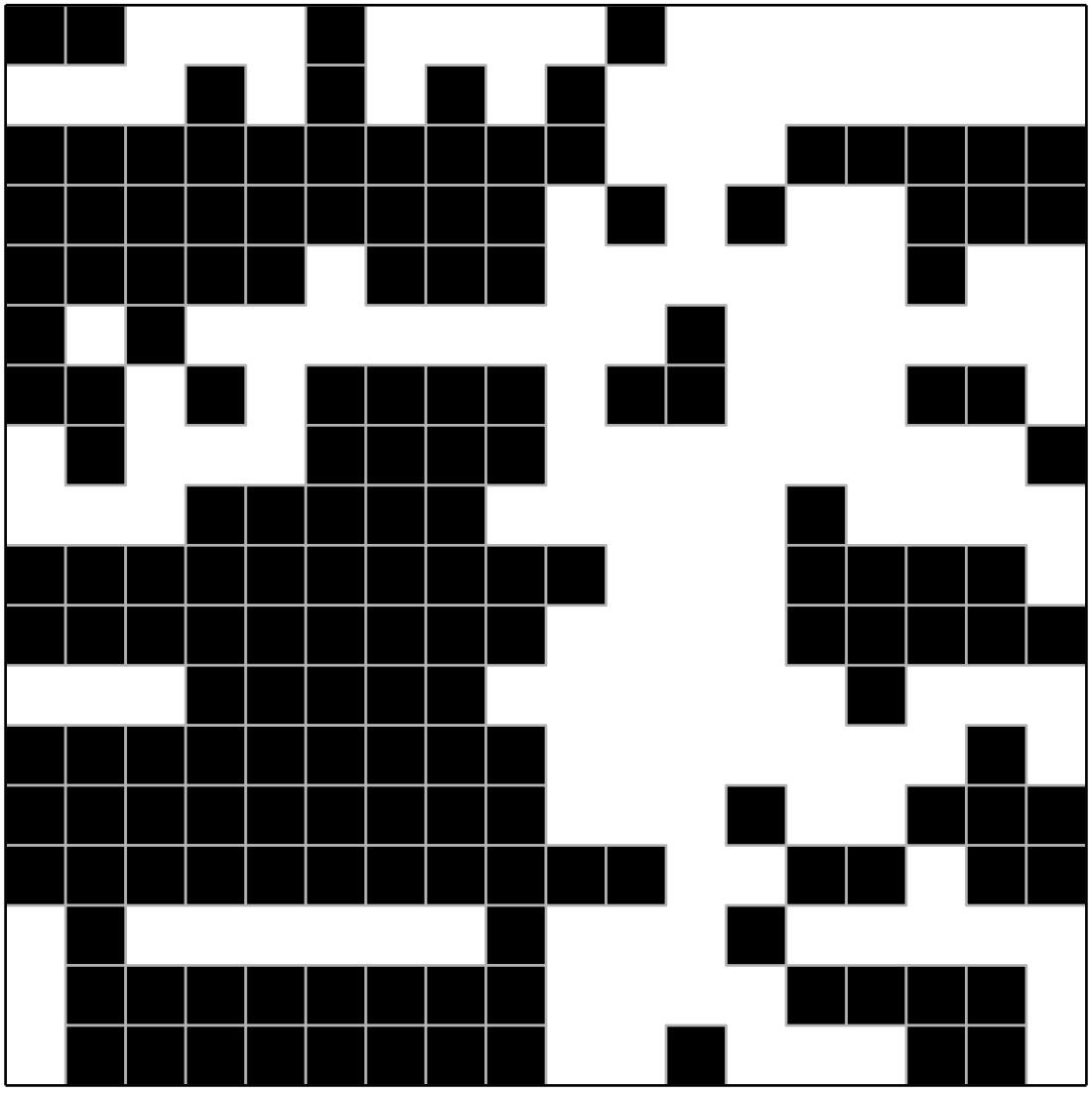
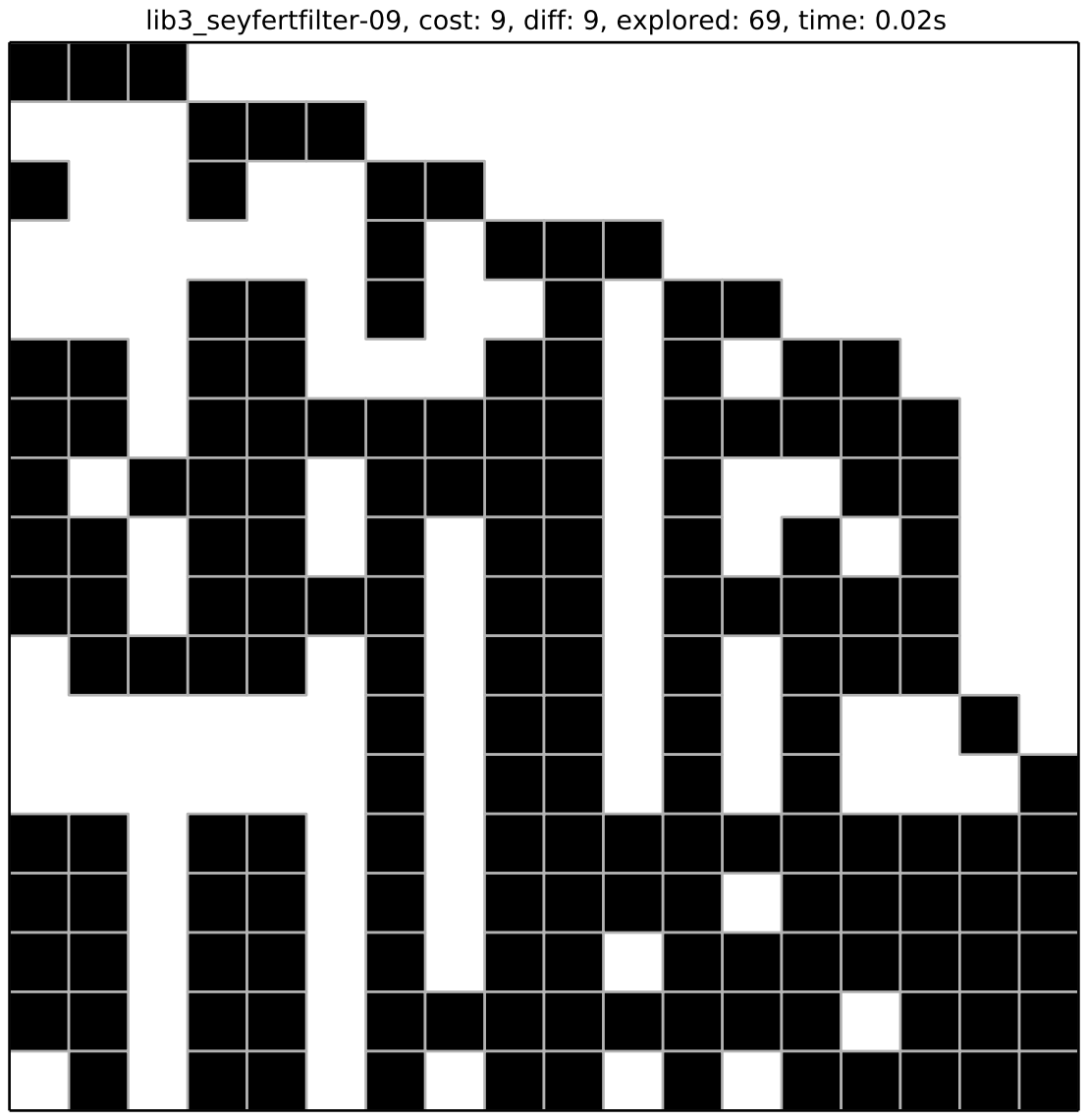
lib3_seyfertfilter-09 18x18 (170) con: 9, var: 9

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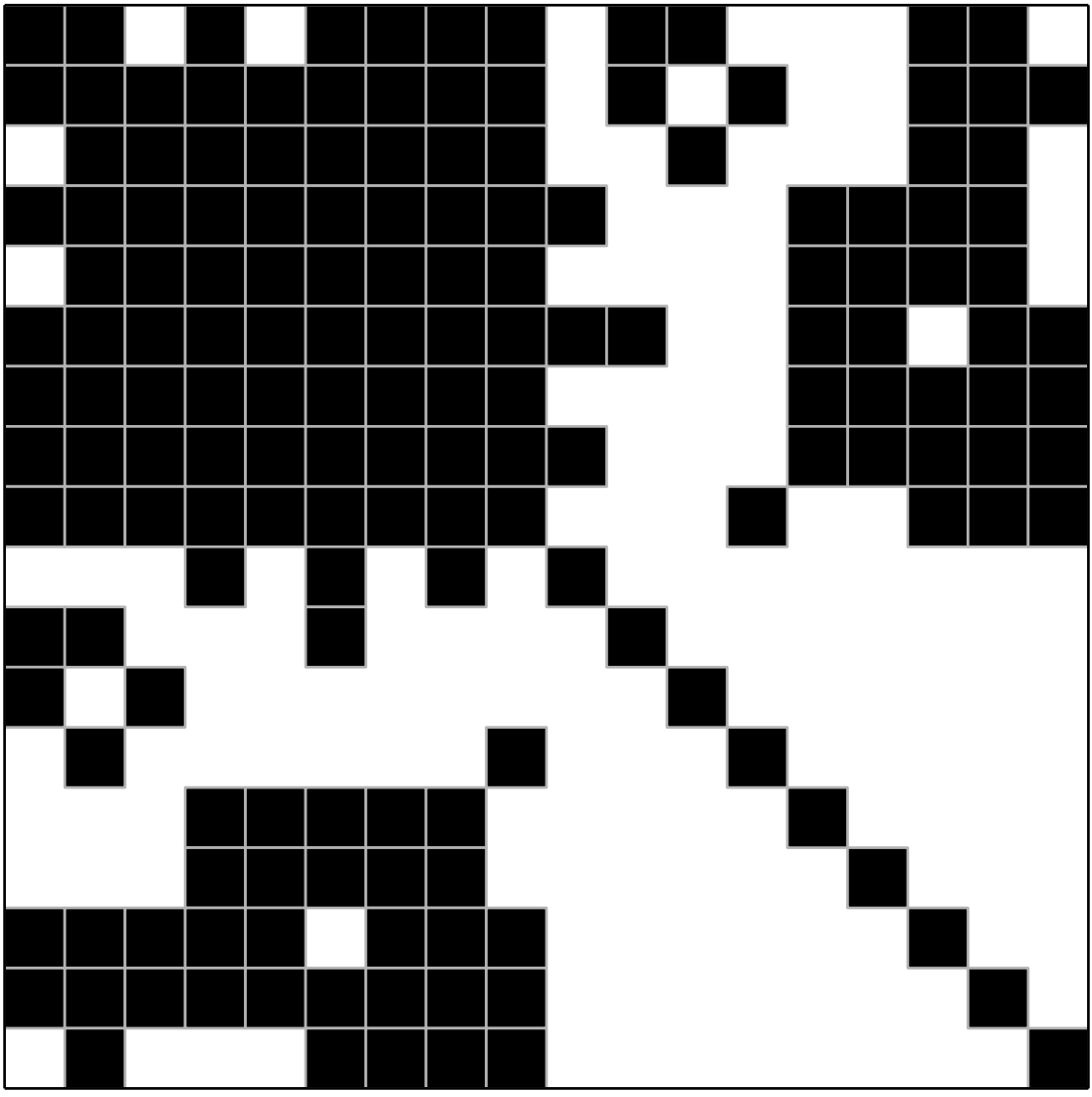
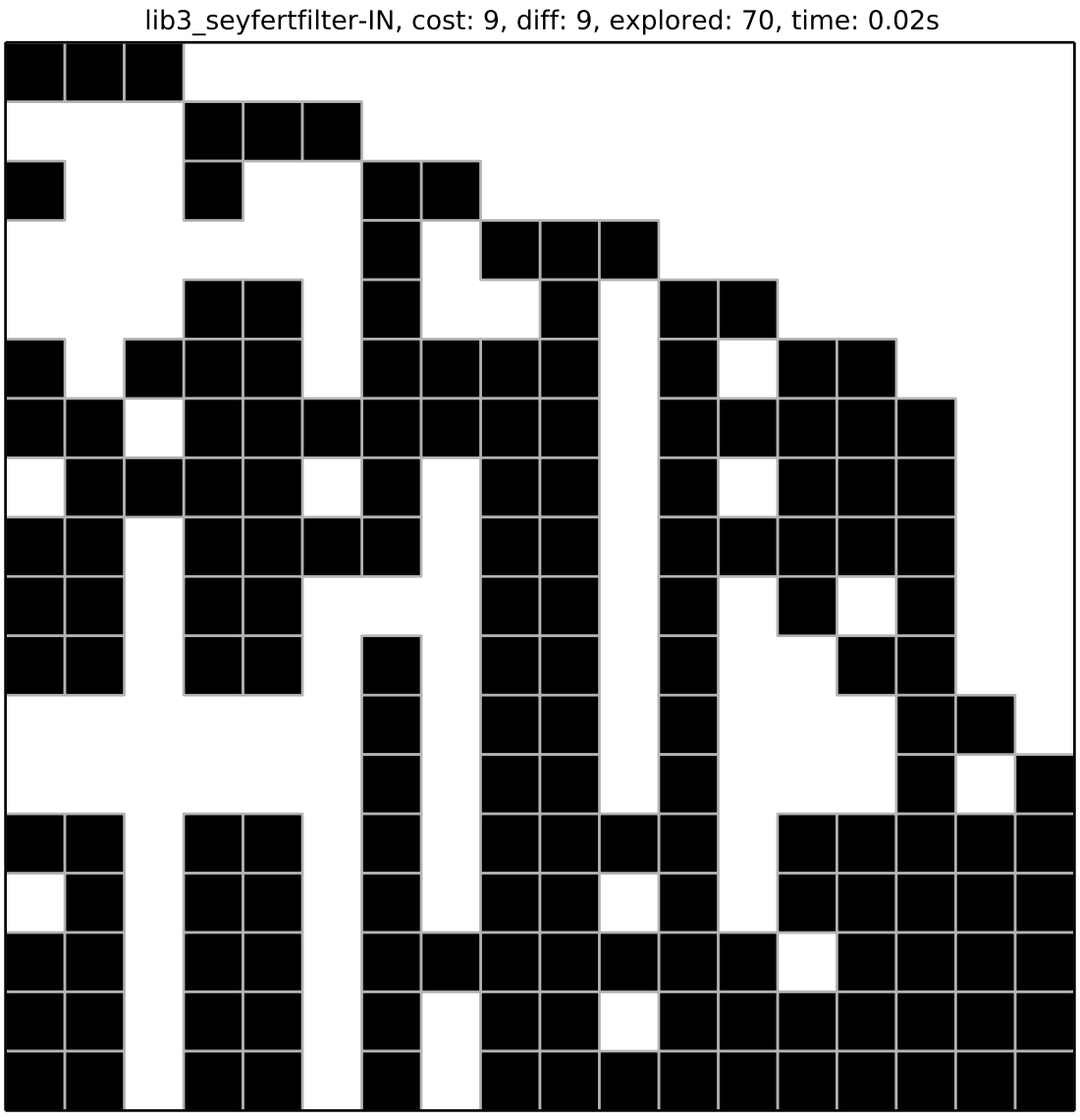
lib3_seyfertfilter-IN 18x18 (170) con: 9, var: 9

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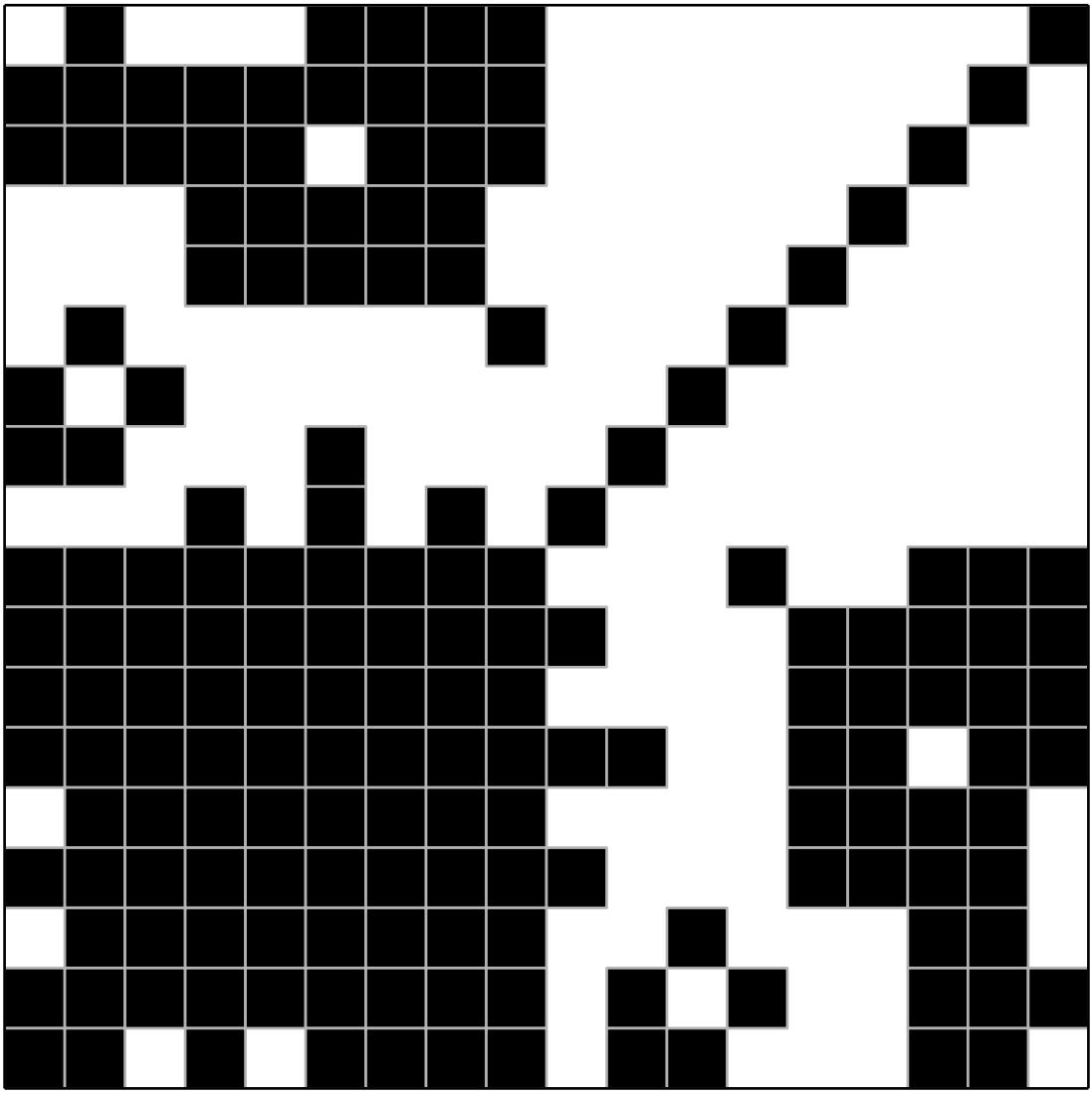
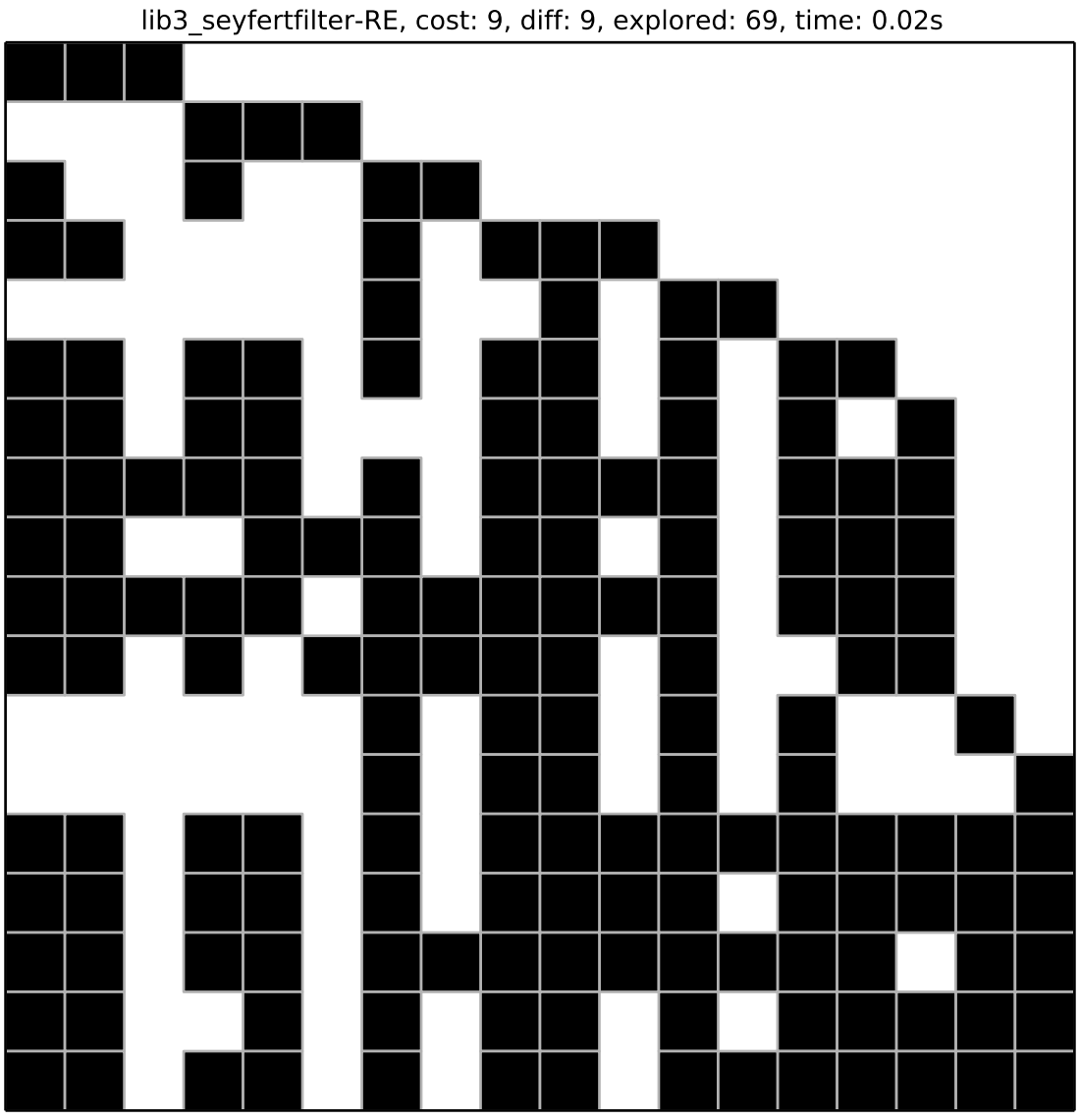
lib3_seyfertfilter-RE 18x18 (170) con: 9, var: 9

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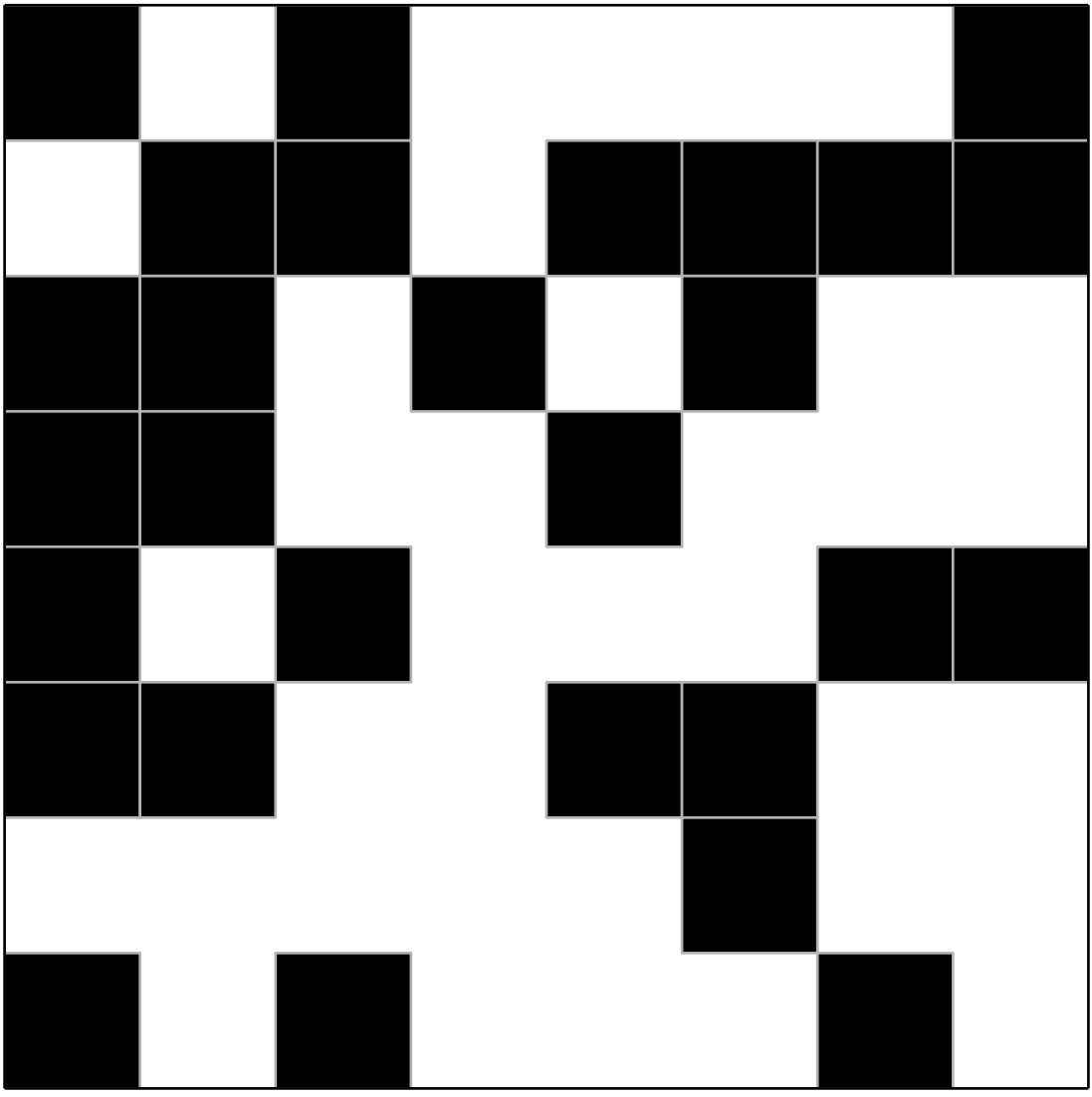
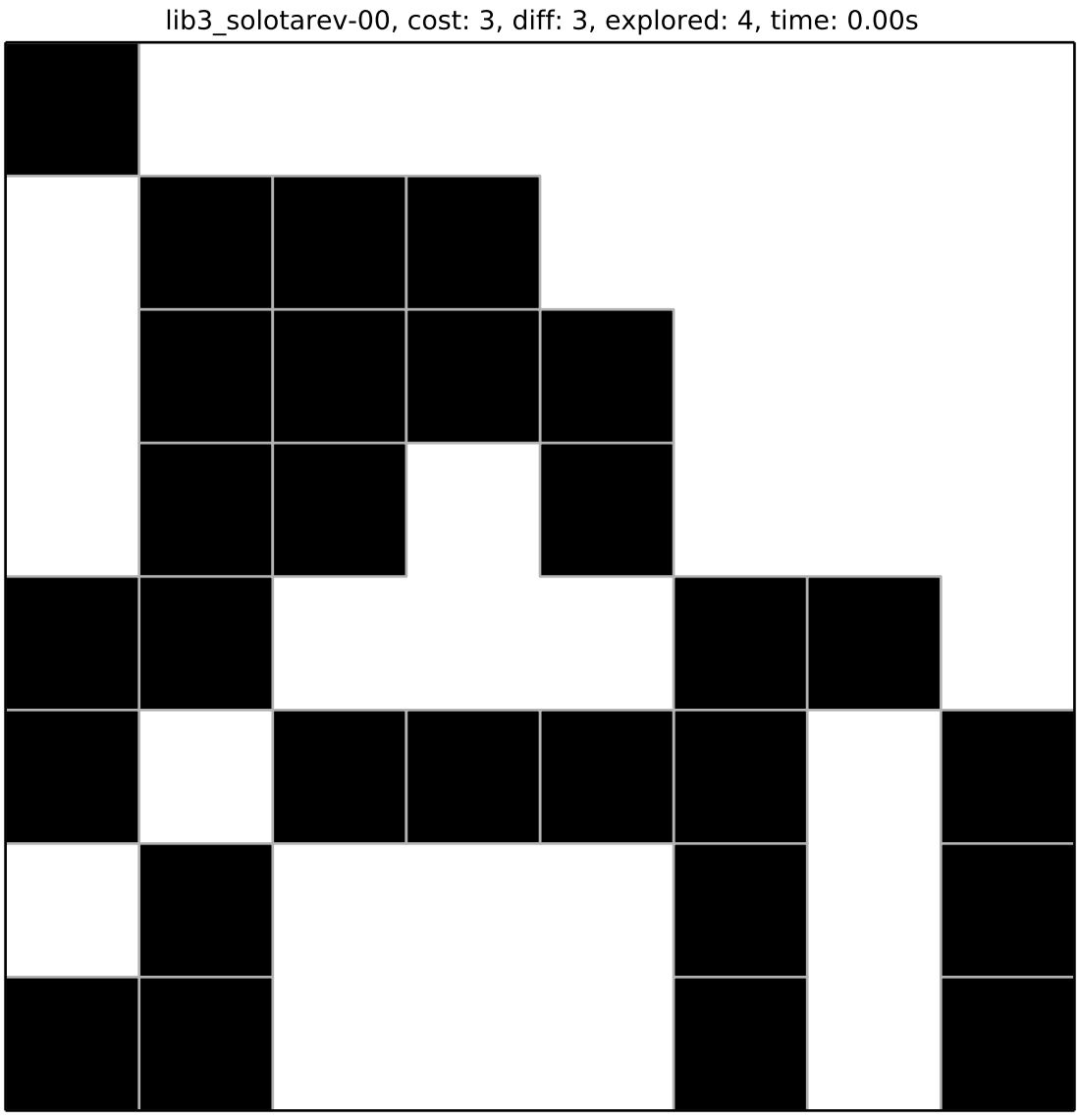
lib3_solotarev-00 8x8 (28) con: 4, var: 4

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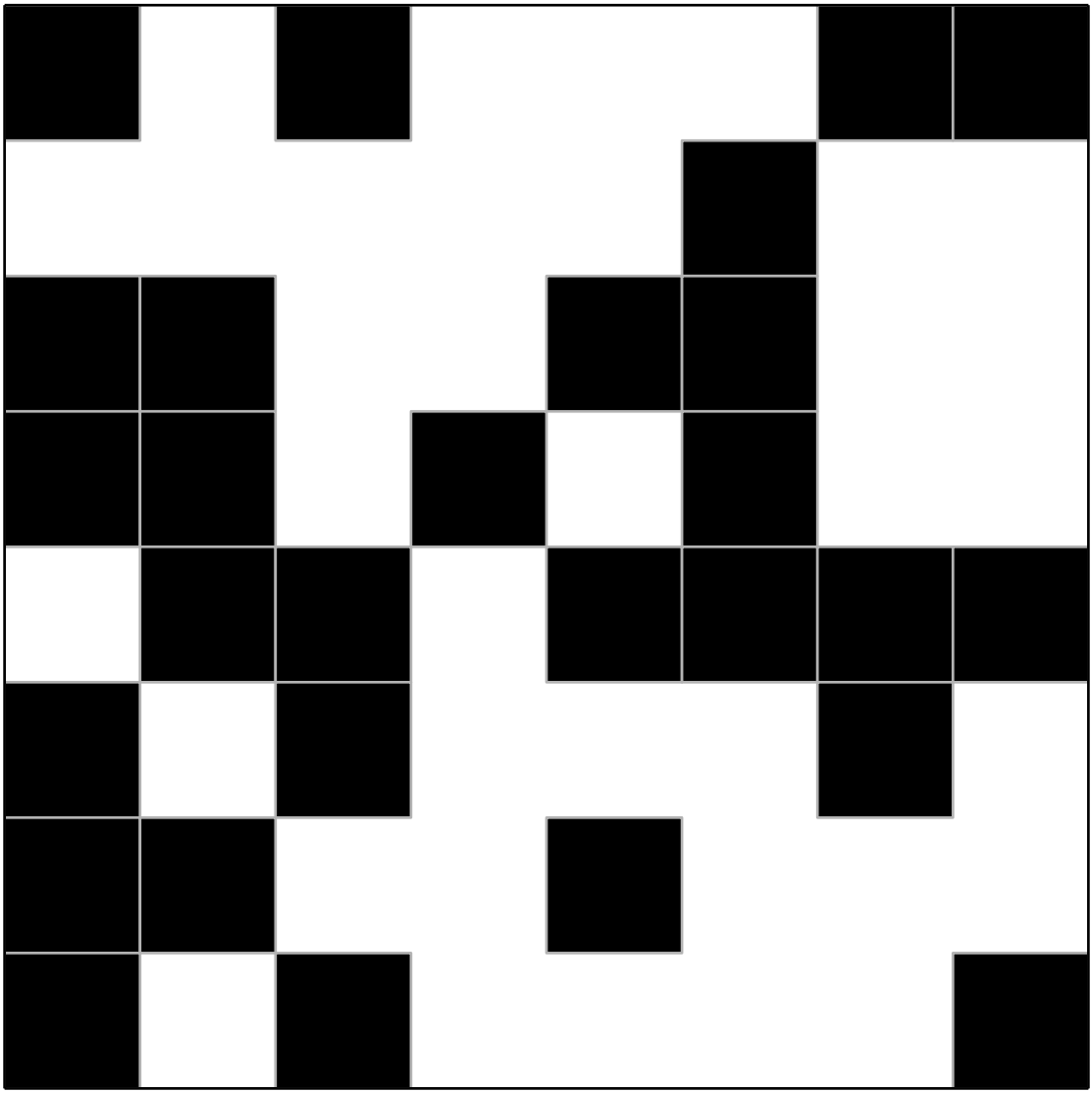
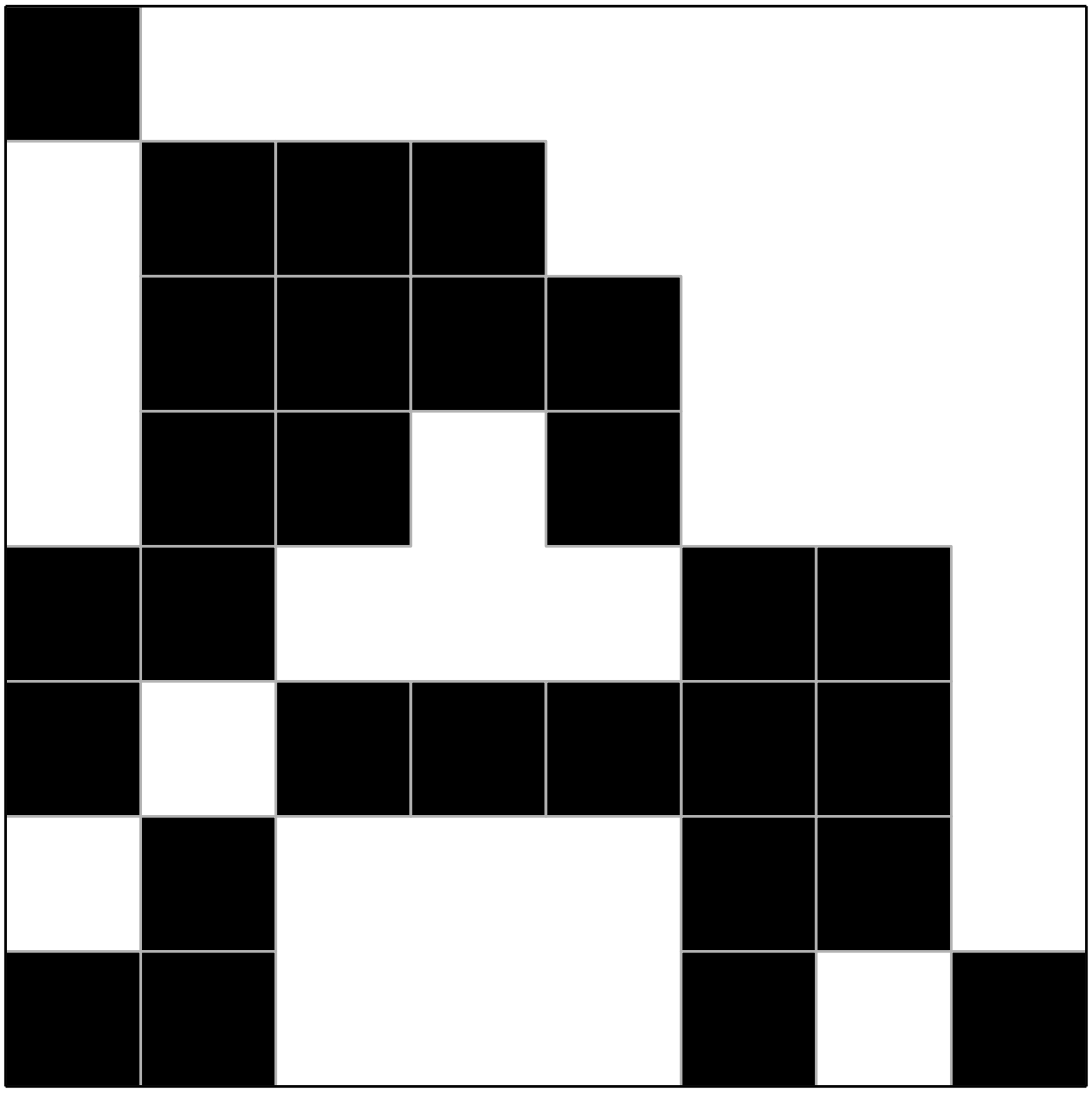
lib3_solotarev-01 8x8 (28) con: 4, var: 4

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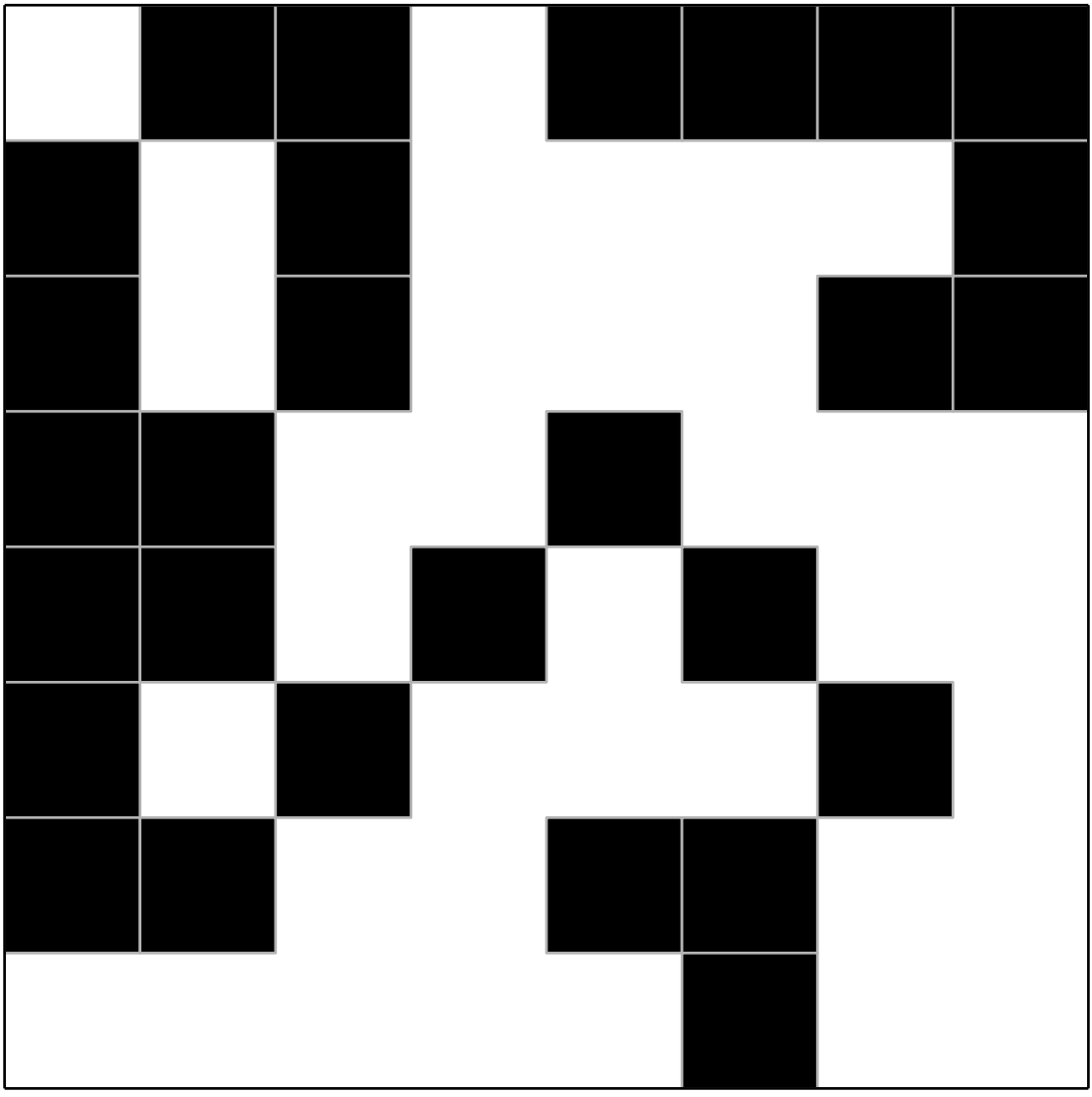
lib3_solotarev-02 8x8 (28) con: 4, var: 4



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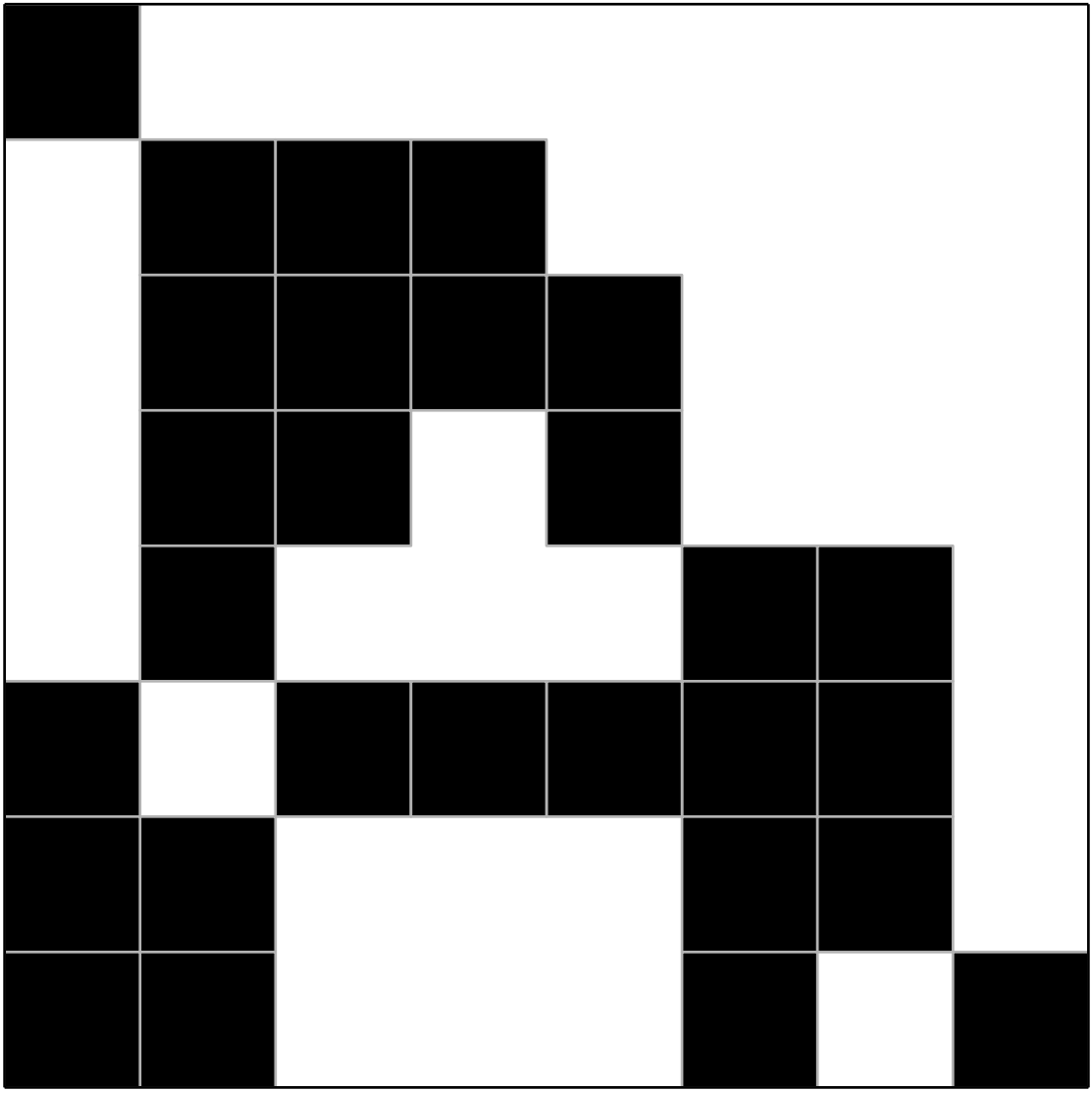
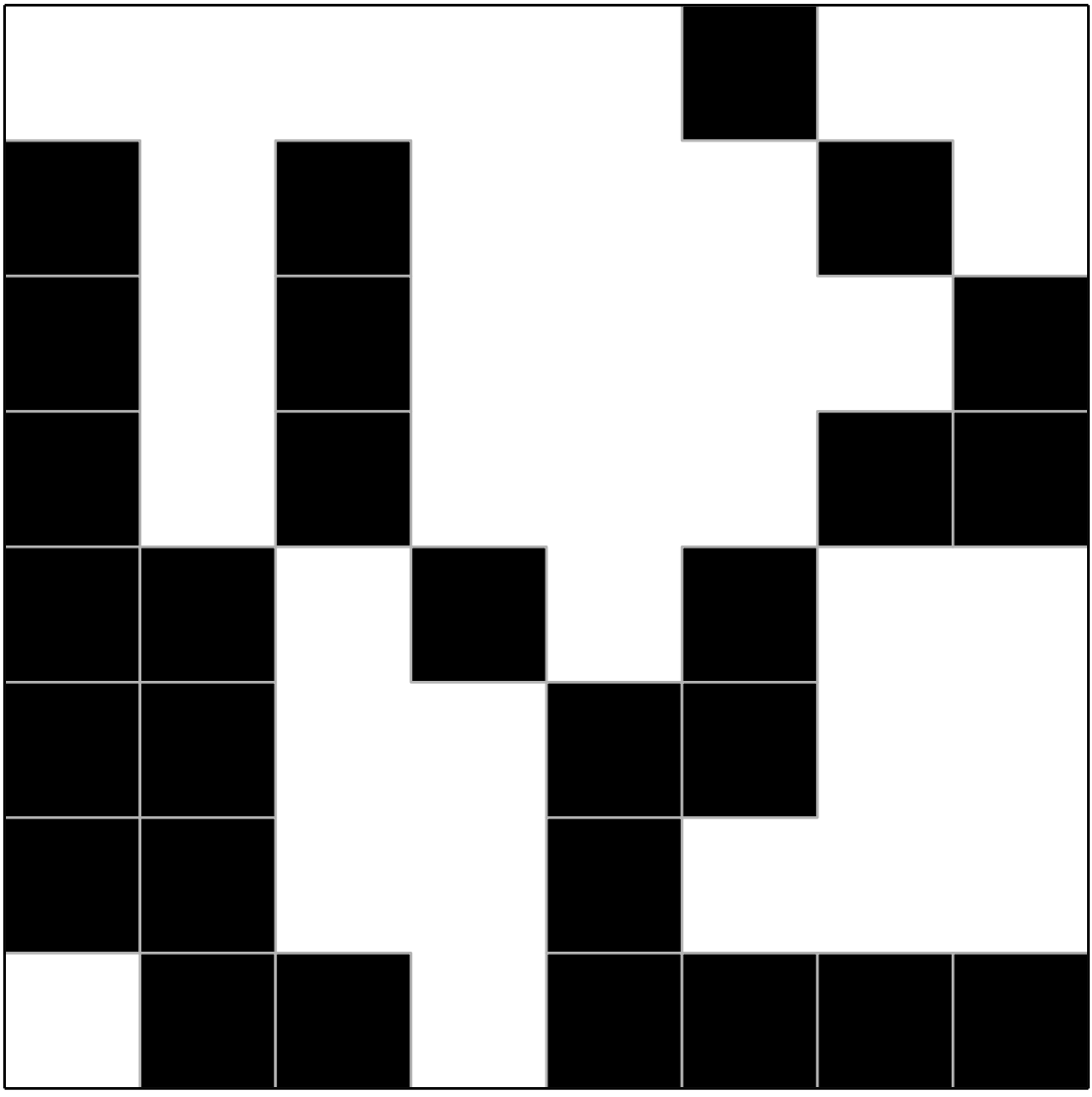


lib3_solotarev-03 8x8 (28) con: 4, var: 4



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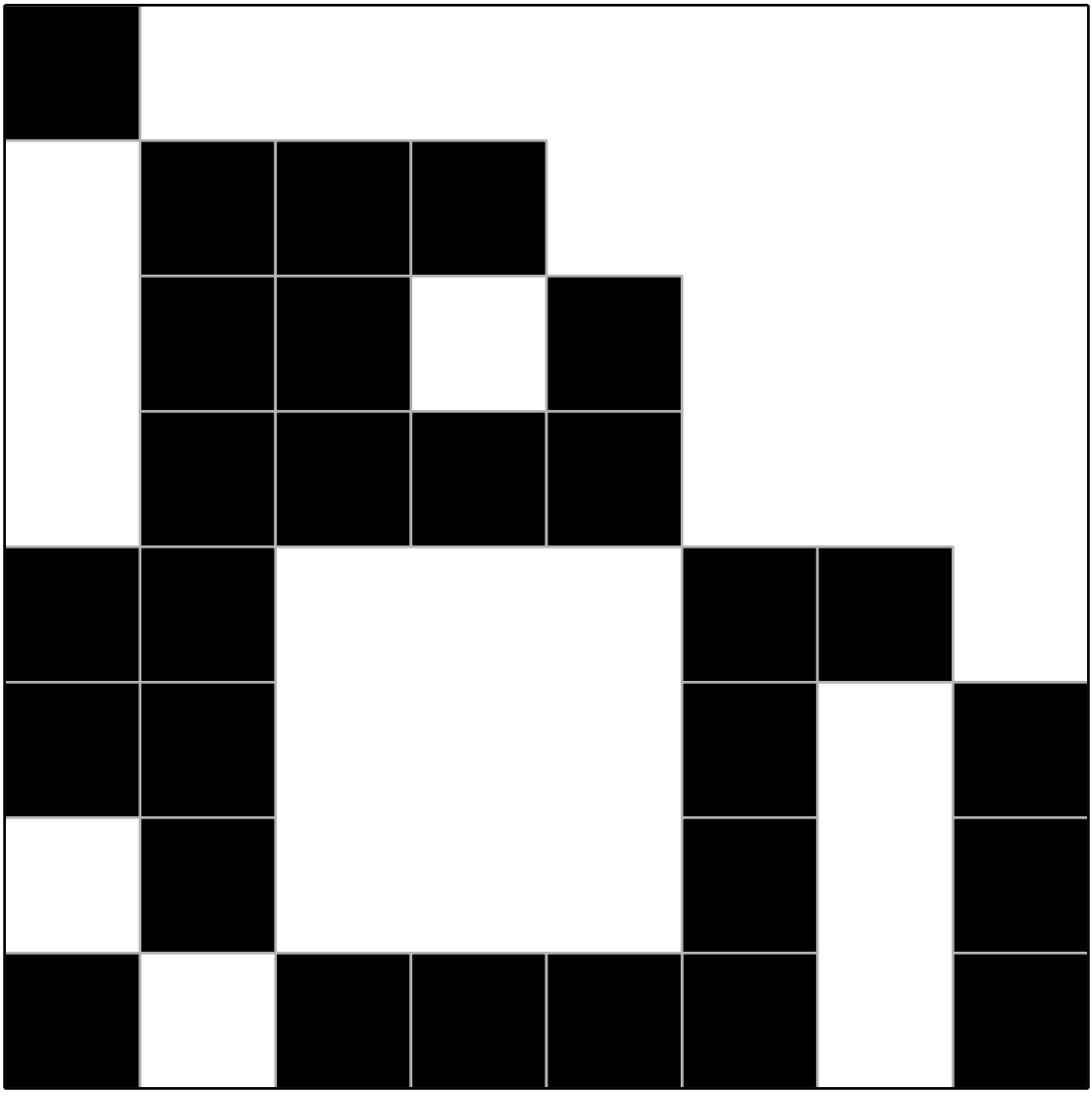
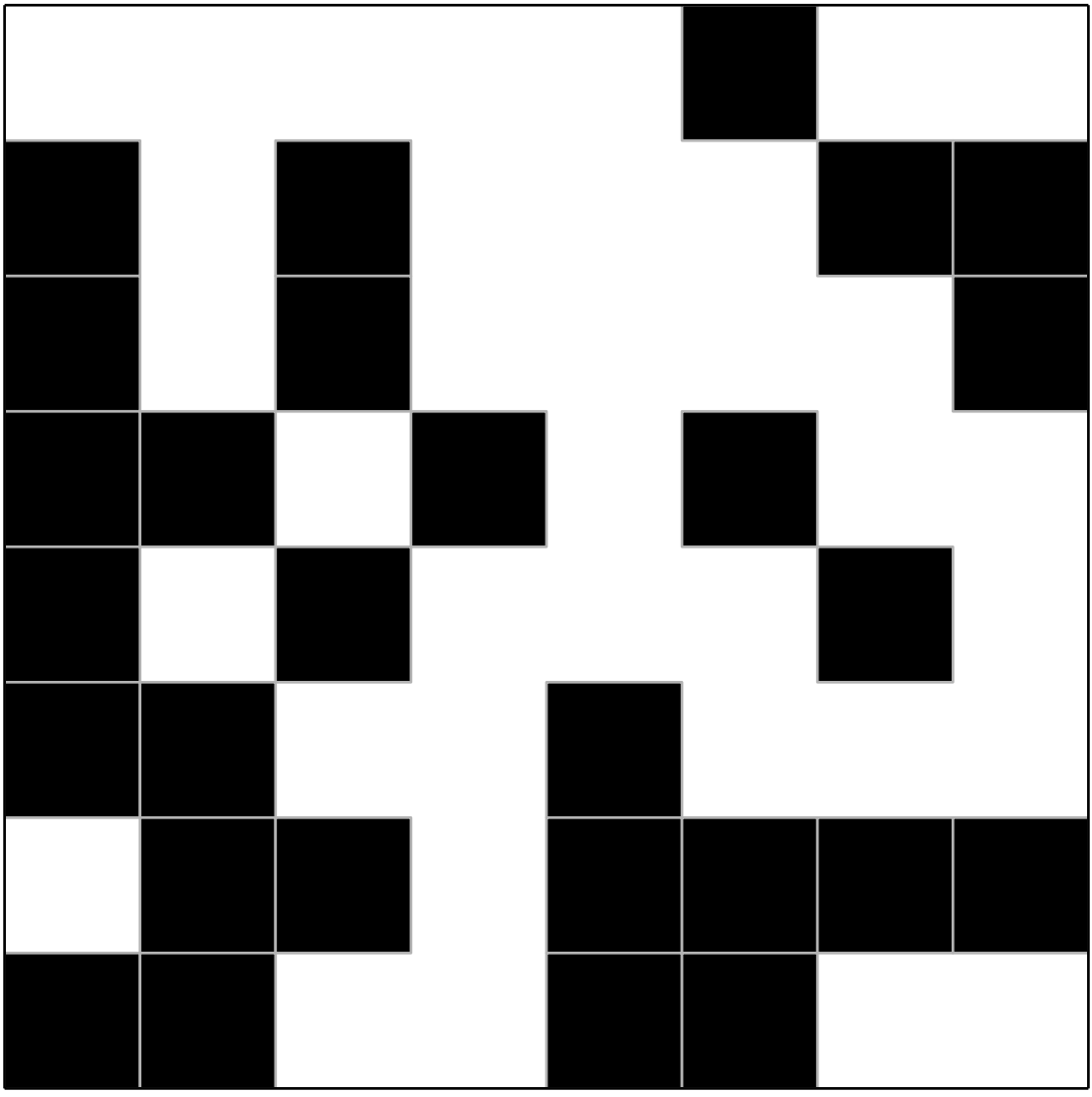
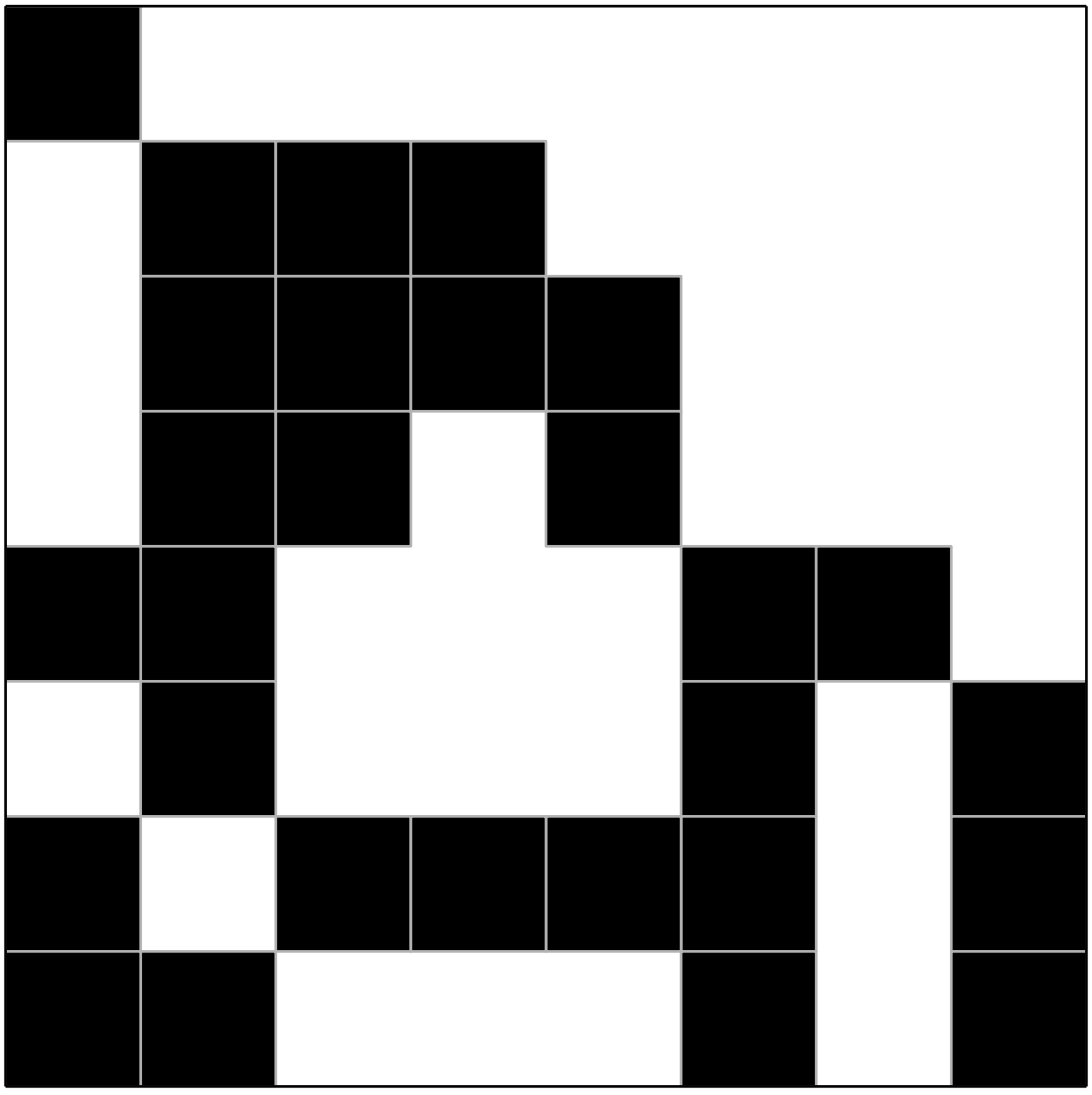


lib3_solotarev-04 8x8 (28) con: 4, var: 4

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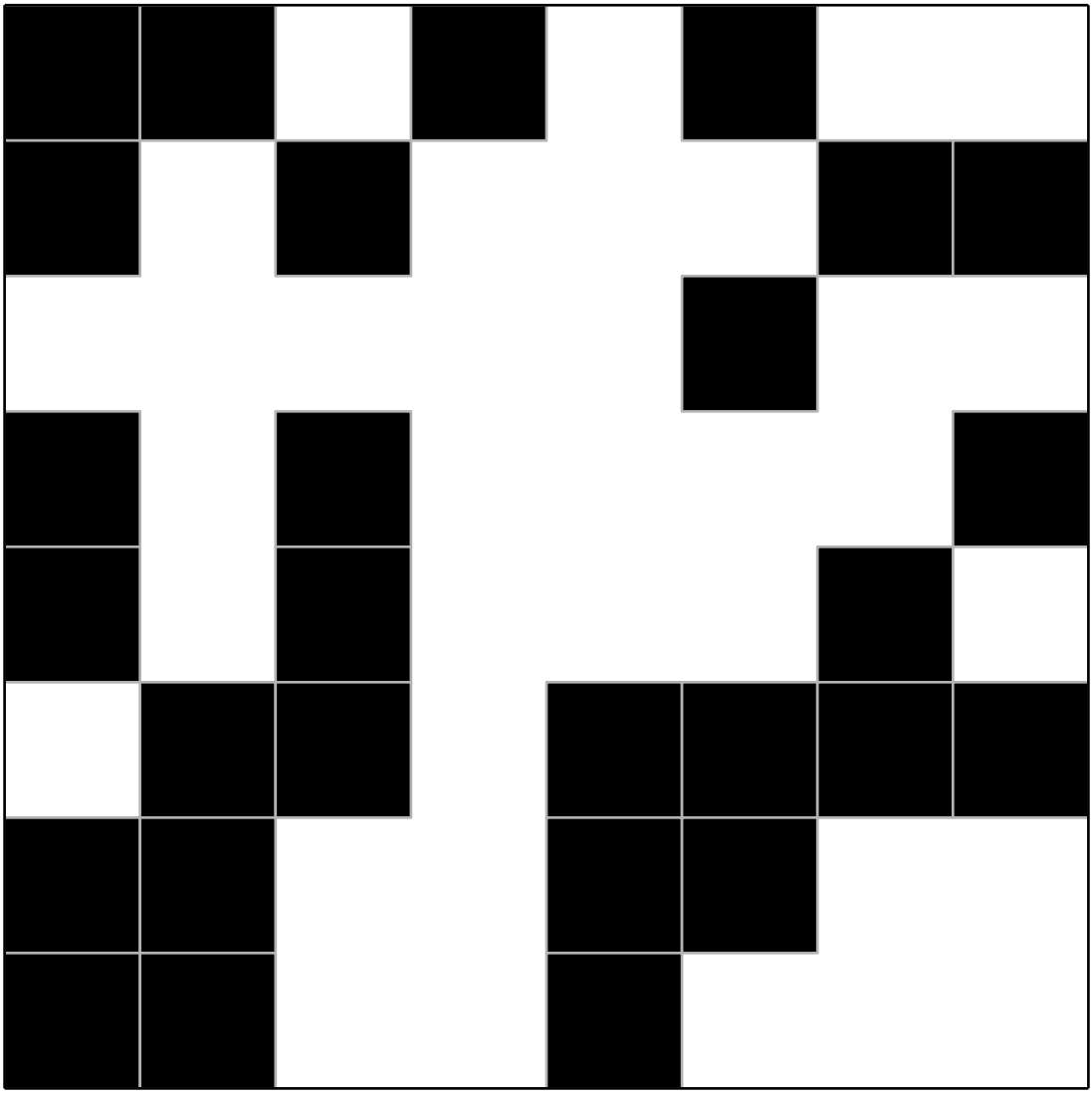
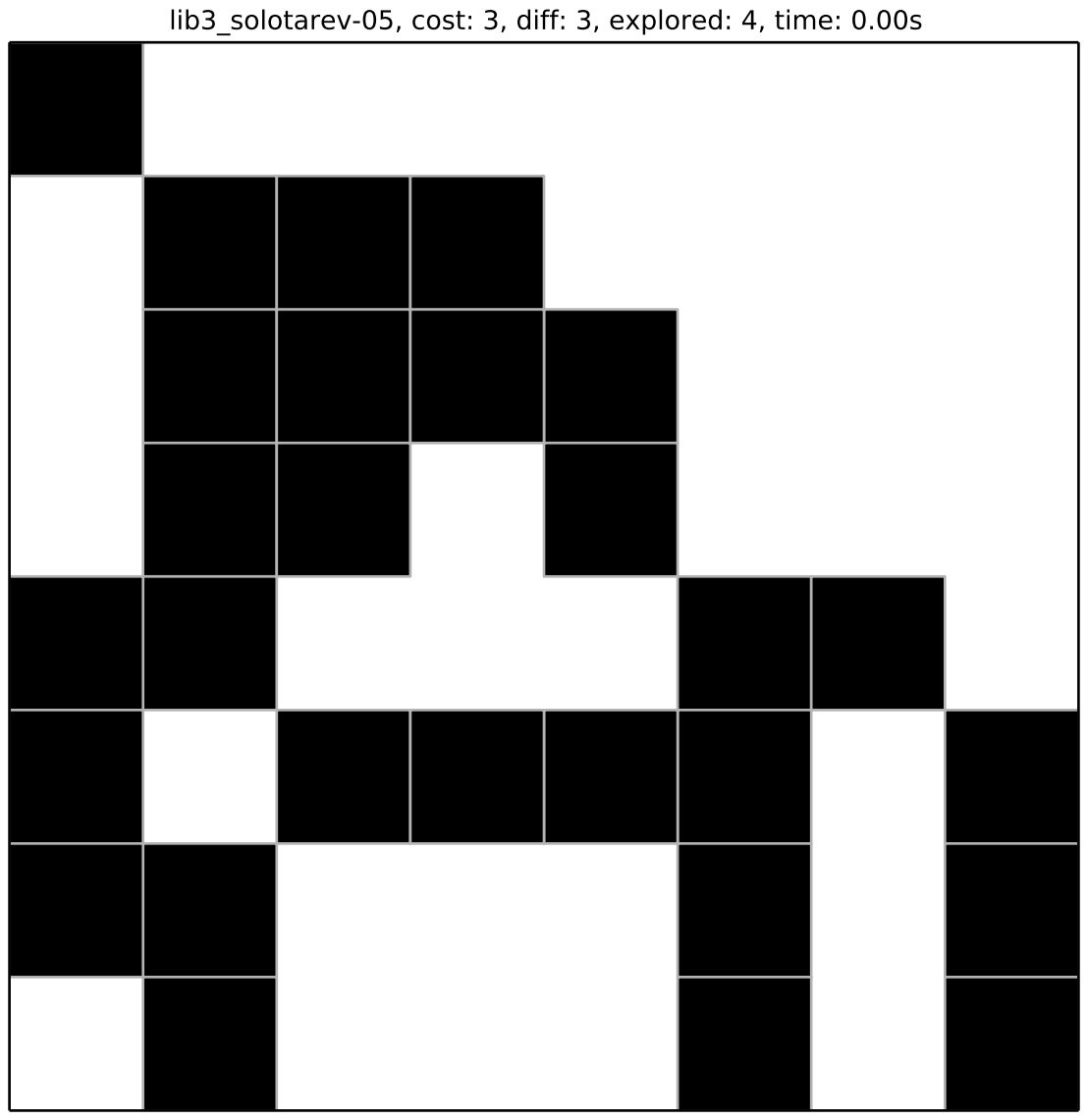
lib3_solotarev-05 8x8 (28) con: 4, var: 4

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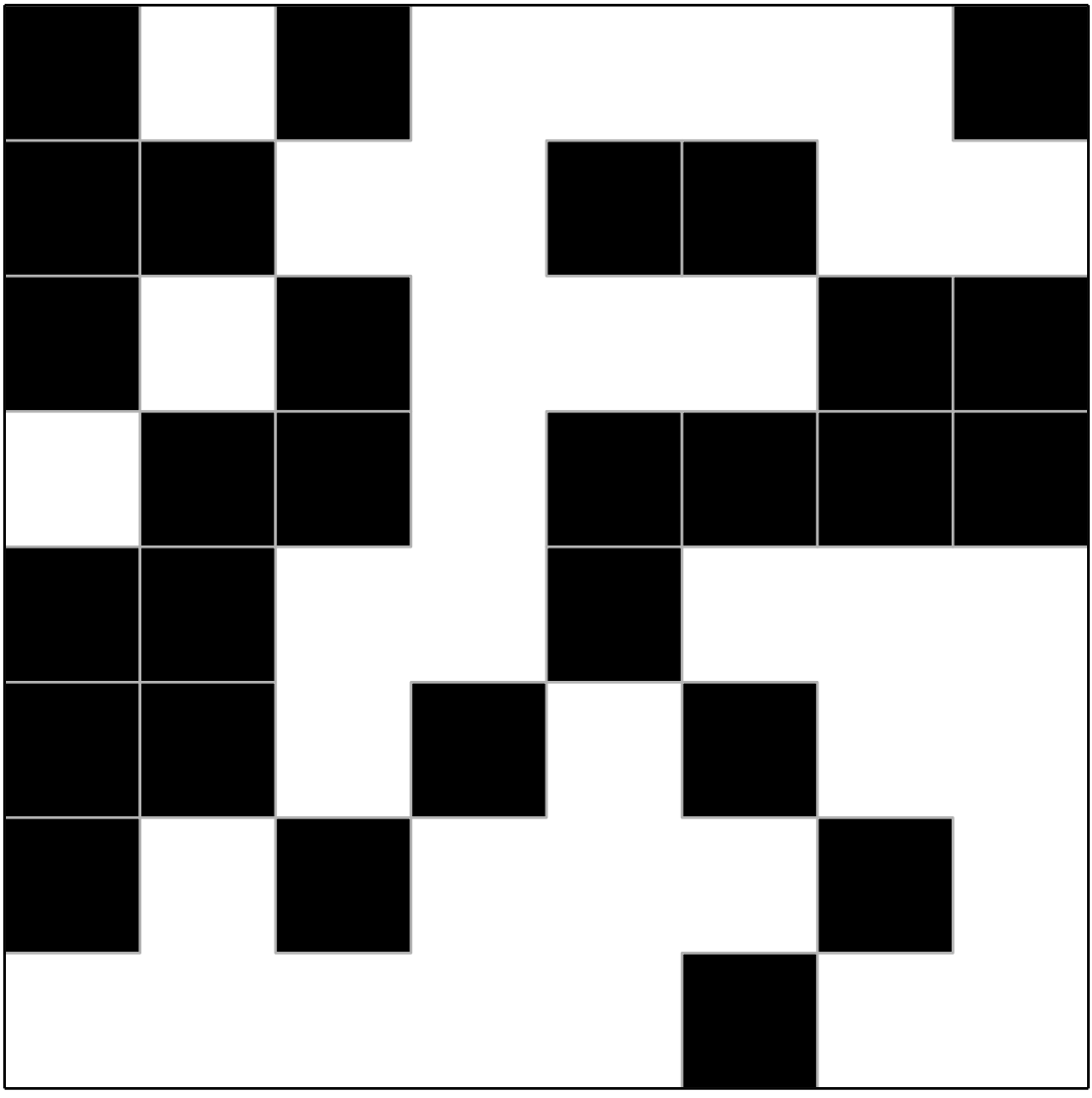
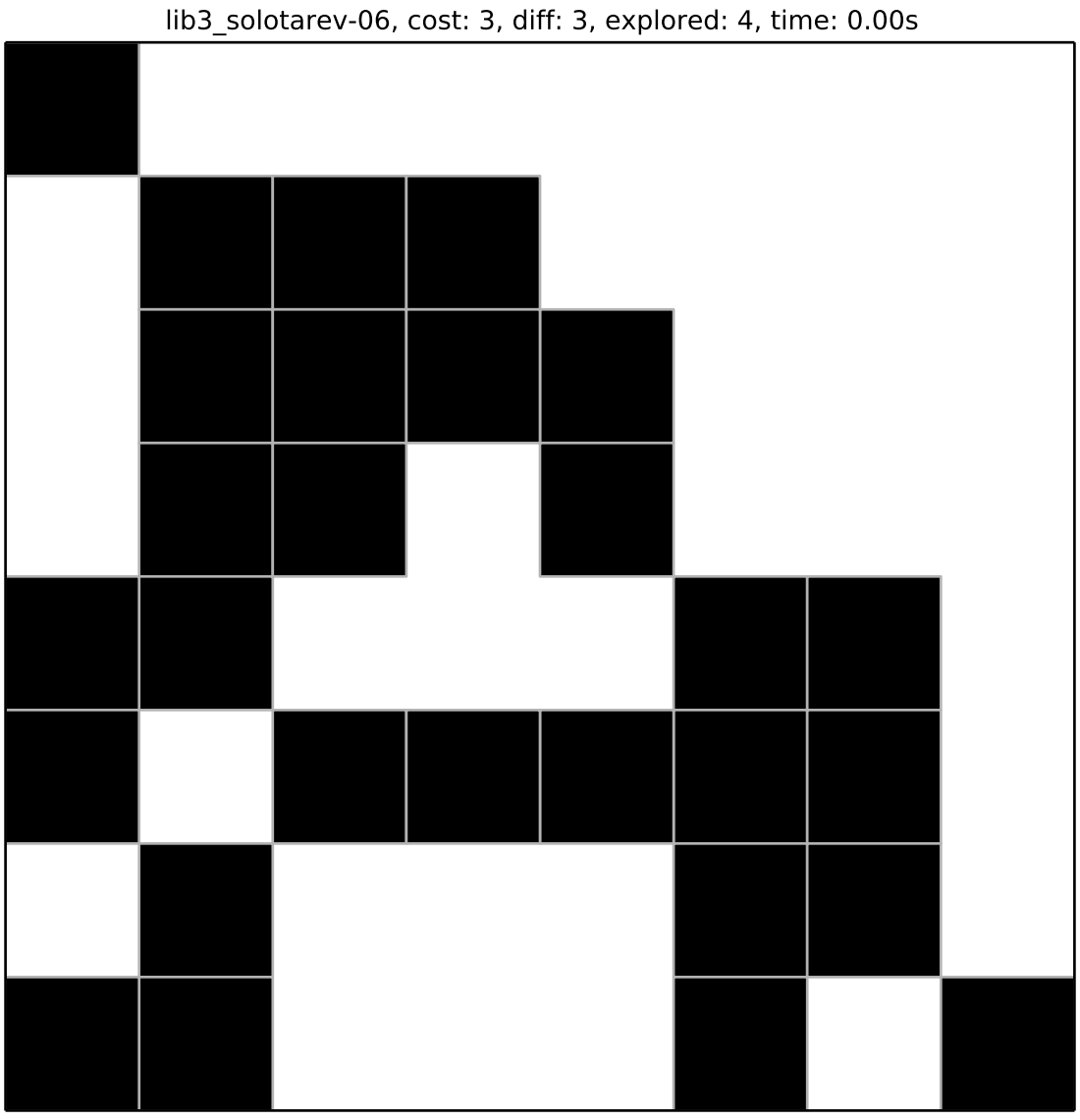
lib3_solotarev-06 8x8 (28) con: 4, var: 4

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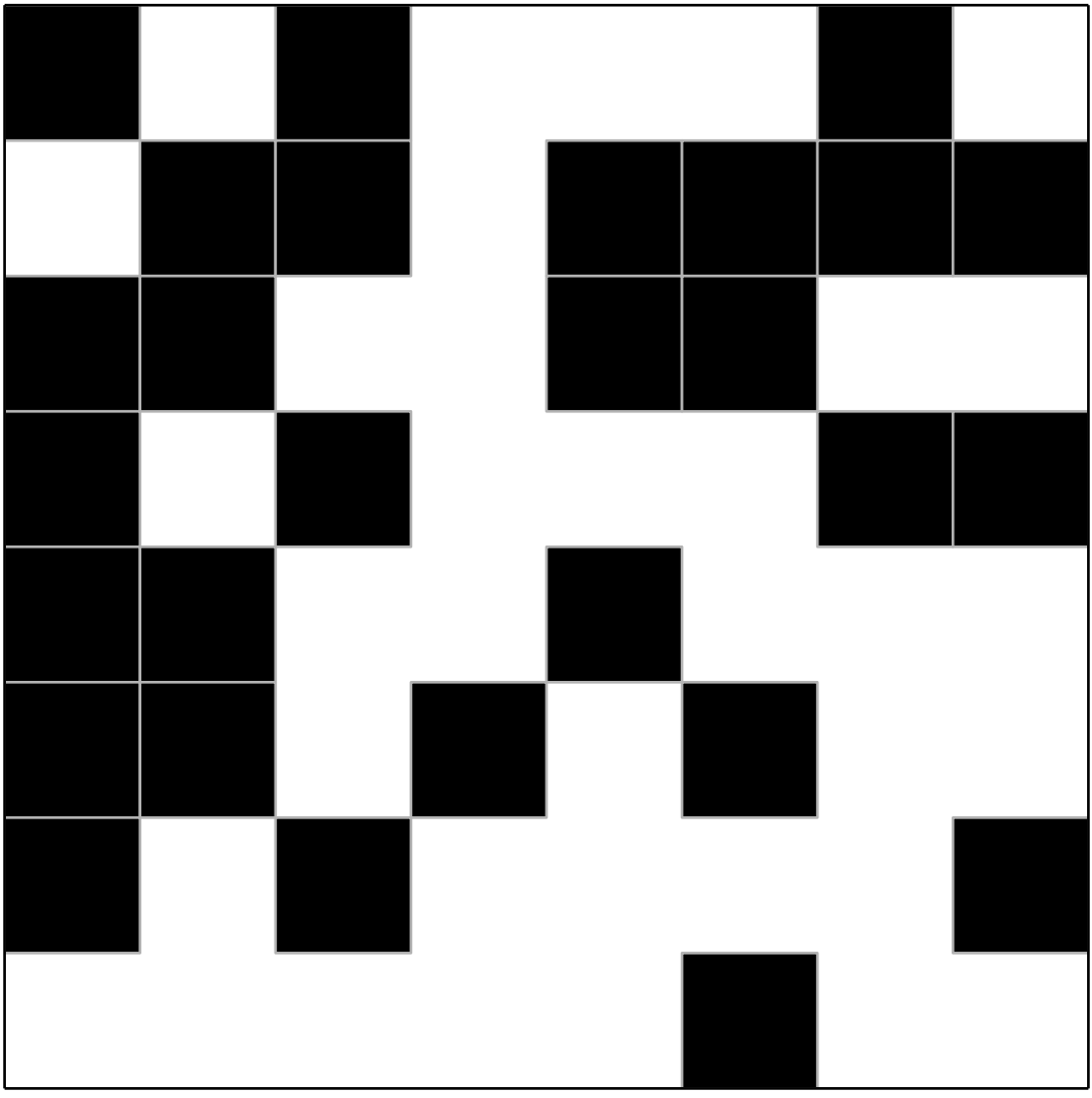
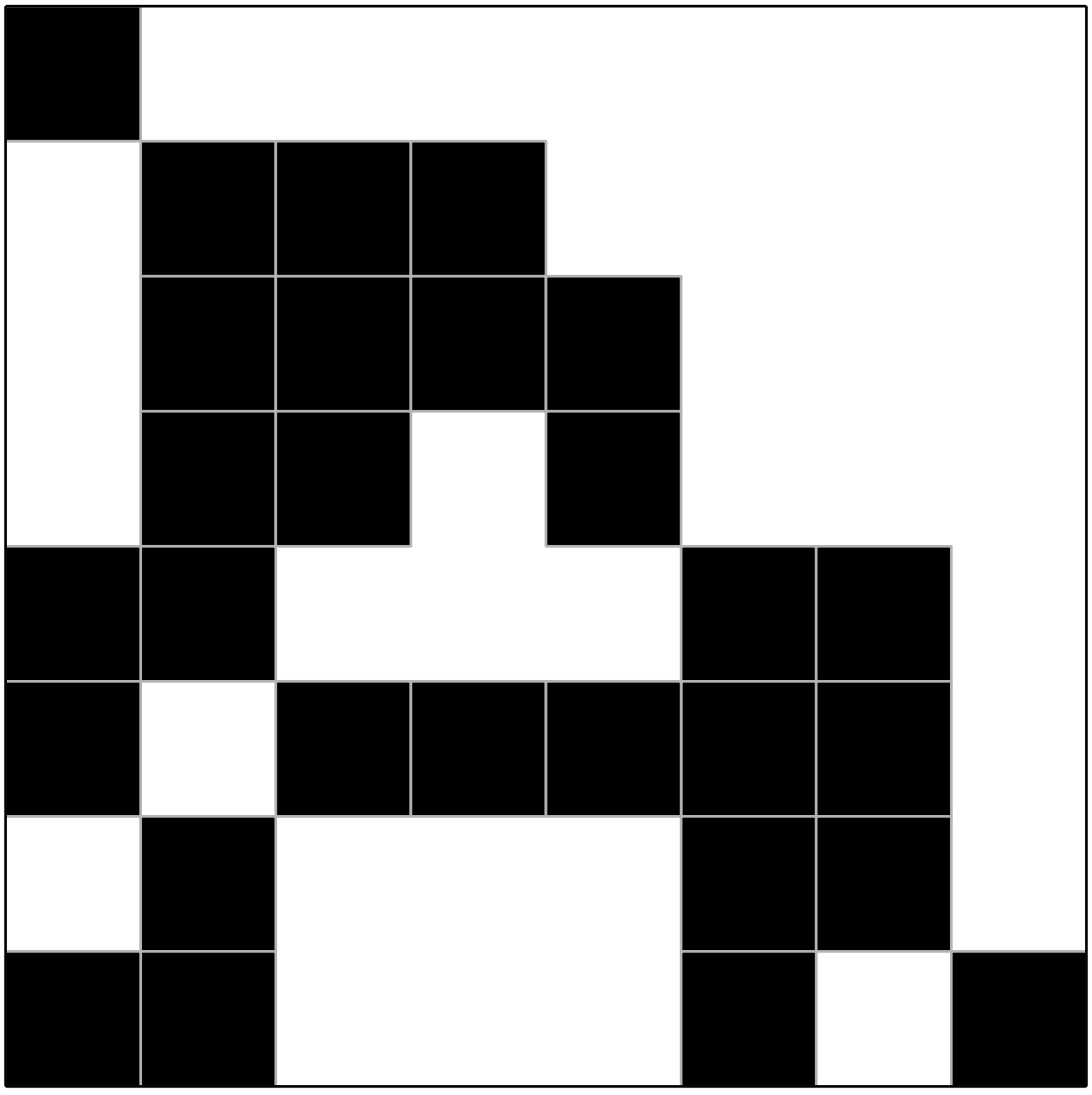
lib3_solotarev-07 8x8 (28) con: 4, var: 4

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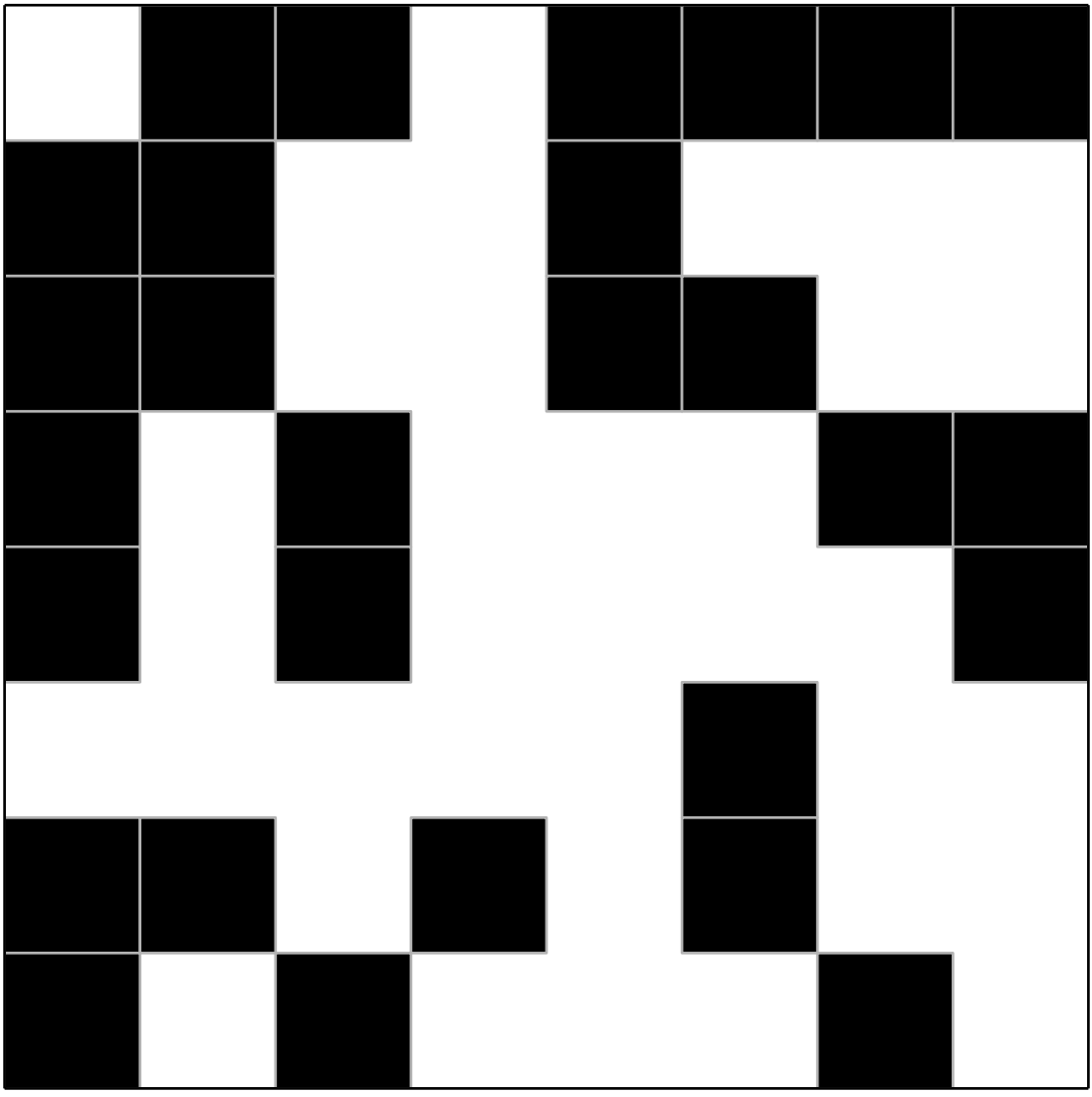
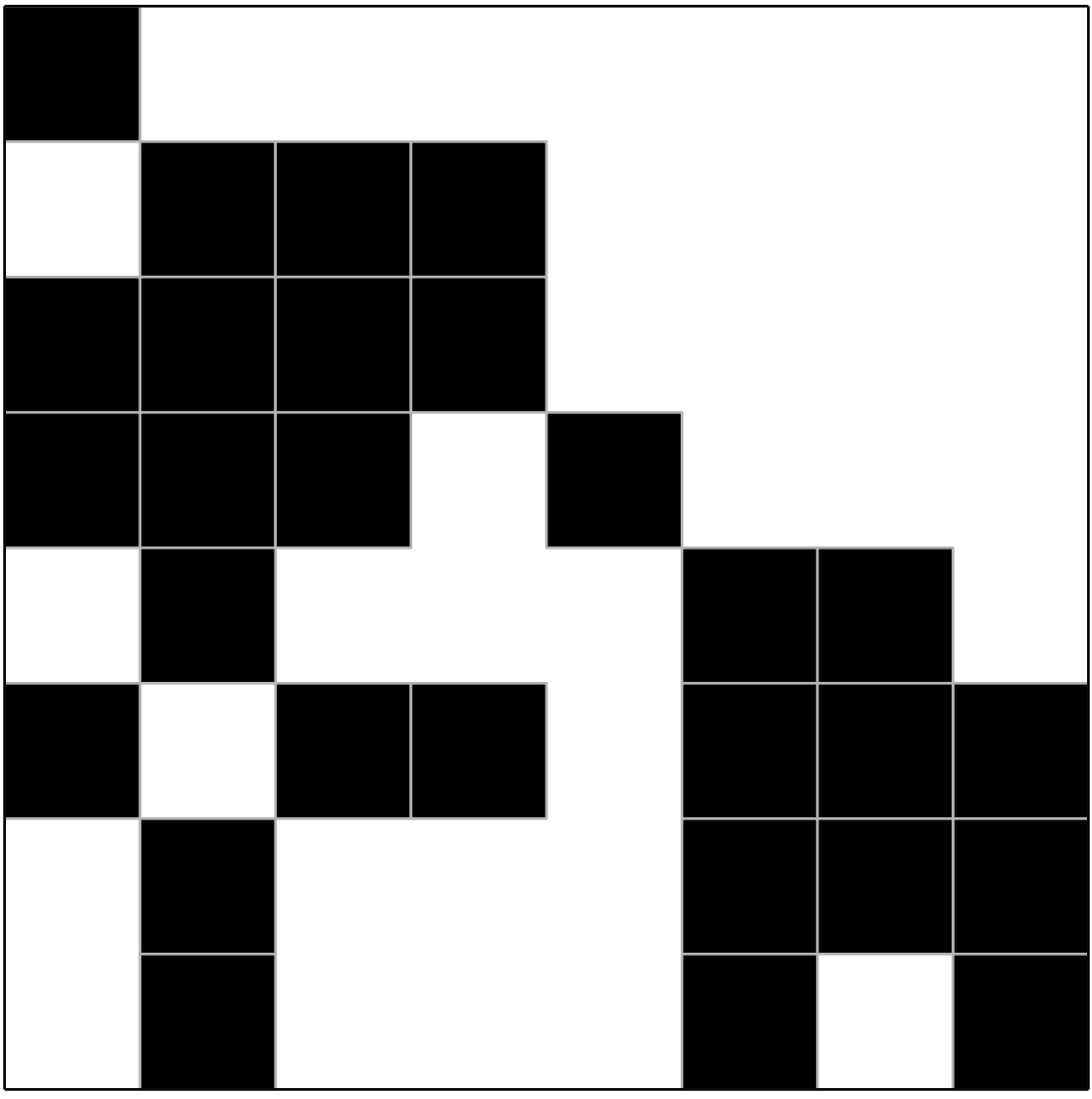
lib3_solotarev-08 8x8 (28) con: 4, var: 4

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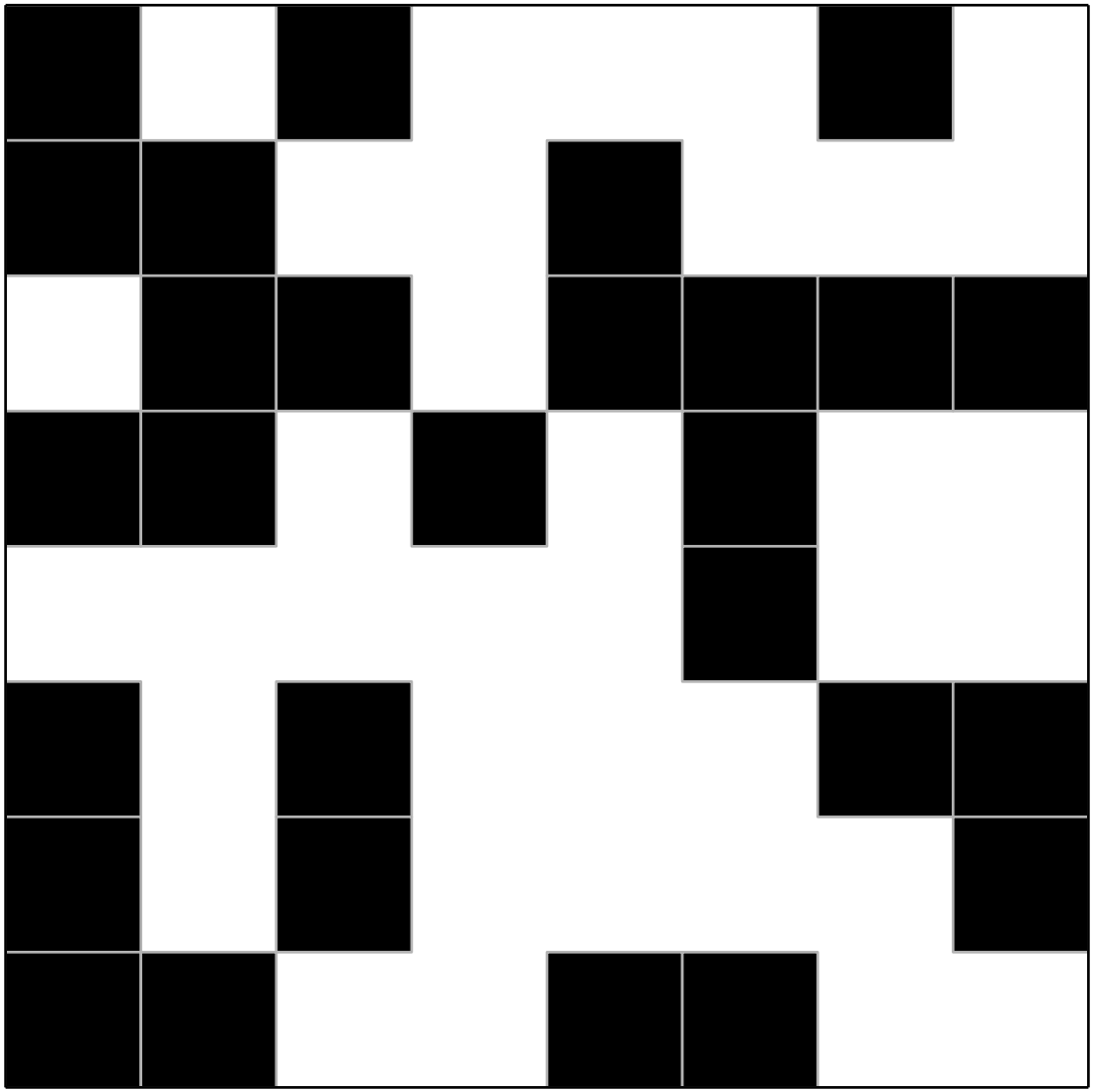
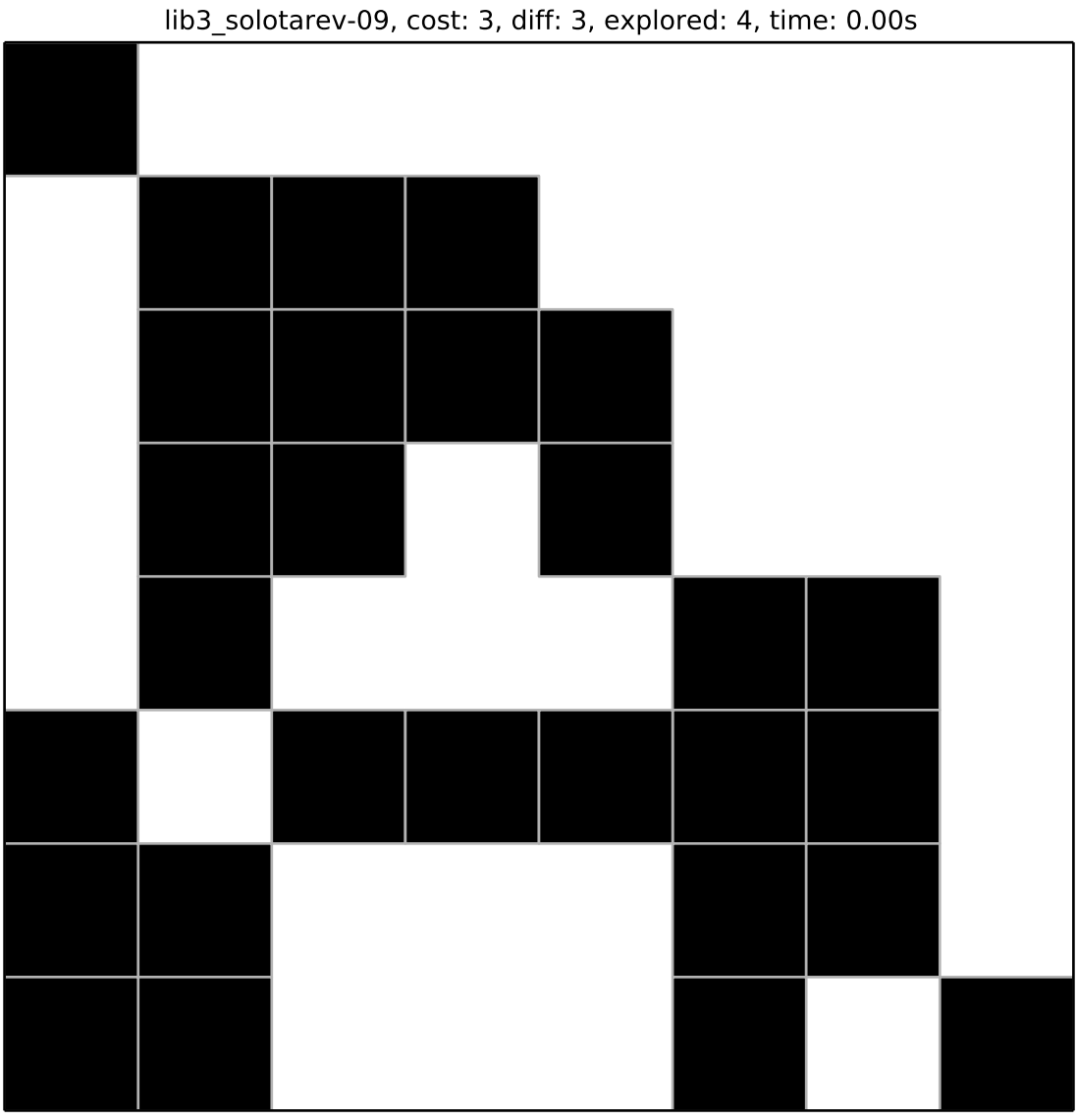
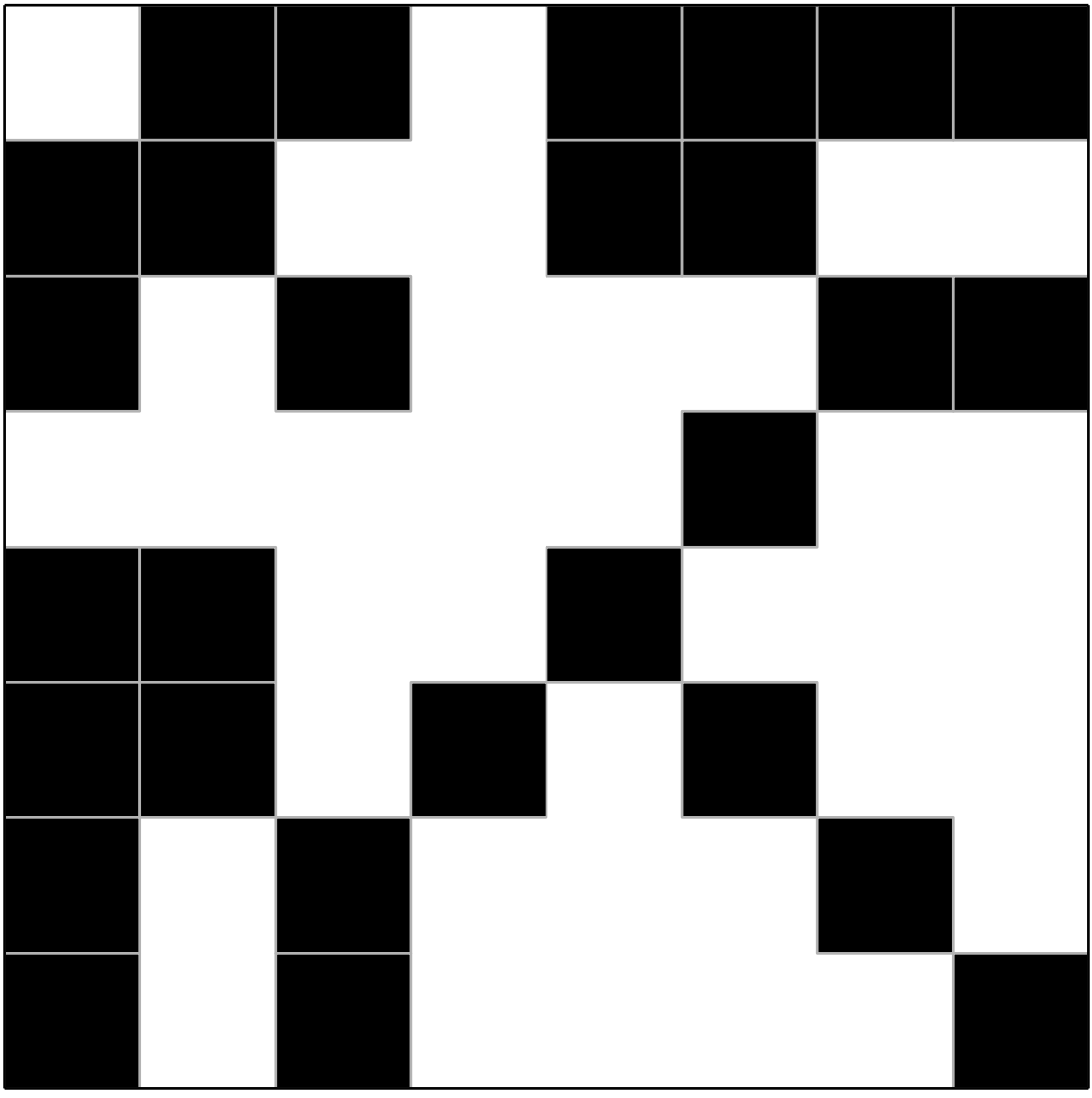
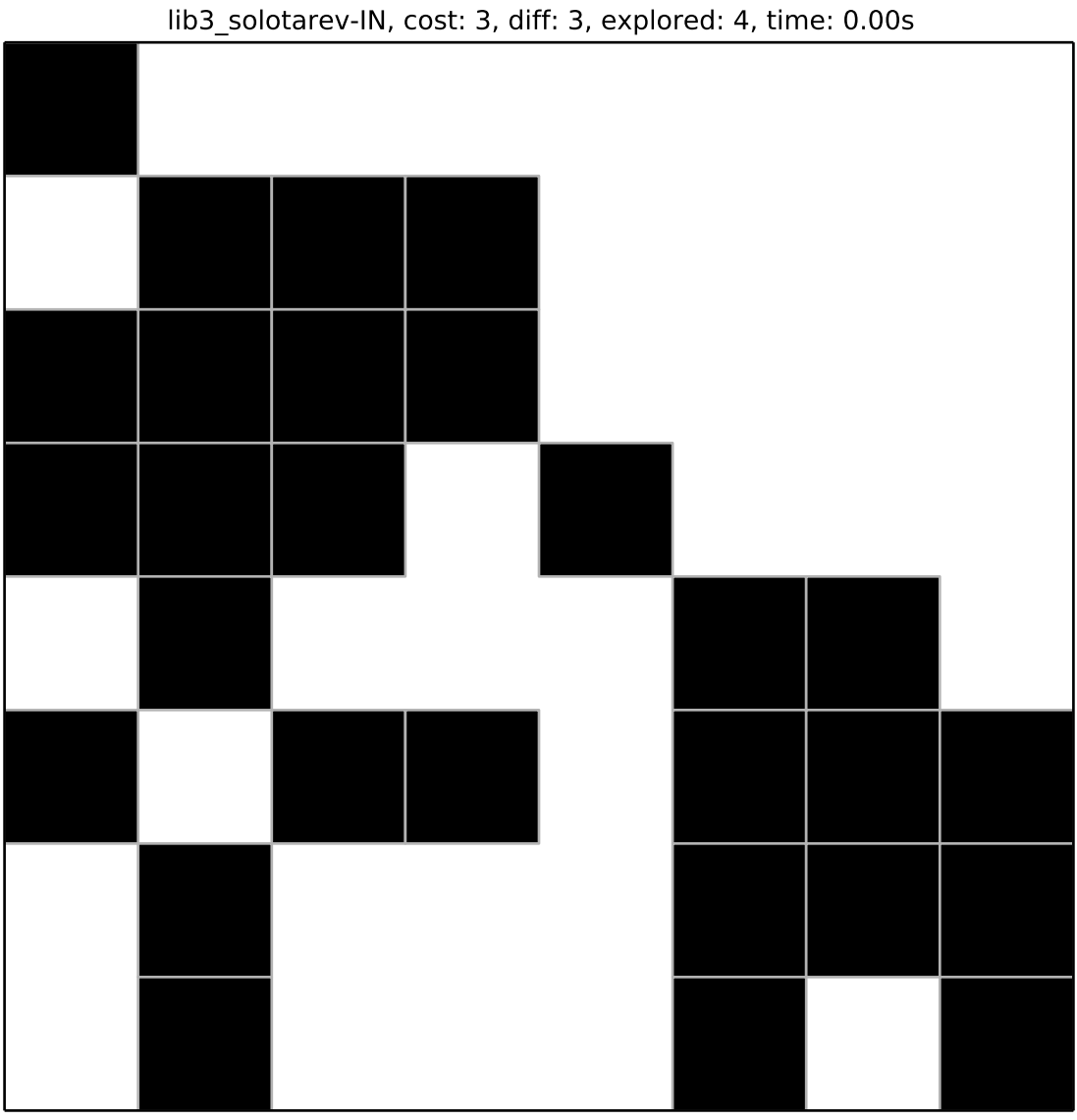
lib3_solotarev-09 8x8 (28) con: 4, var: 4



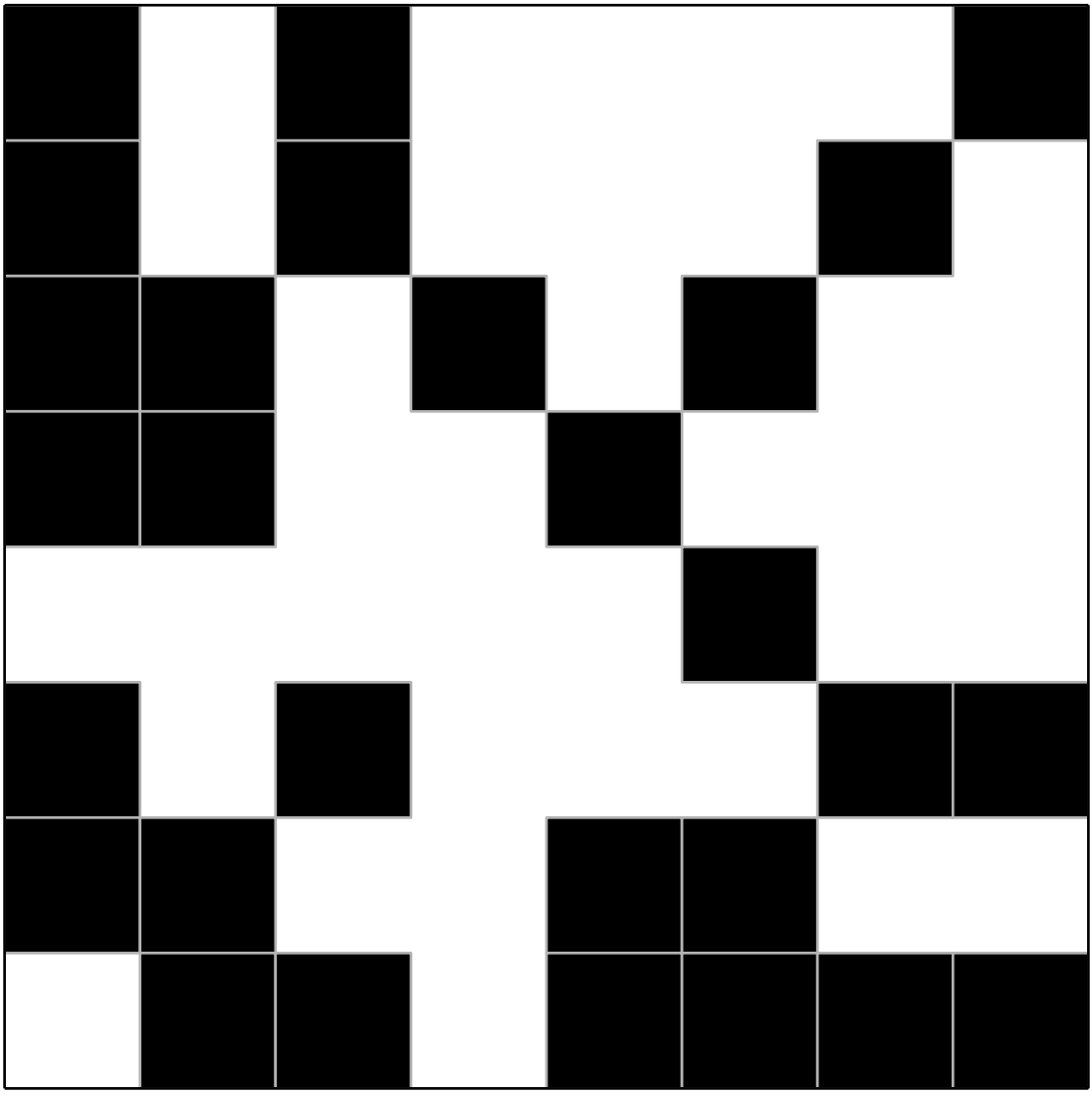

lib3_solotarev-09, cost: 3, diff: 3, explored: 4, time: 0.00s

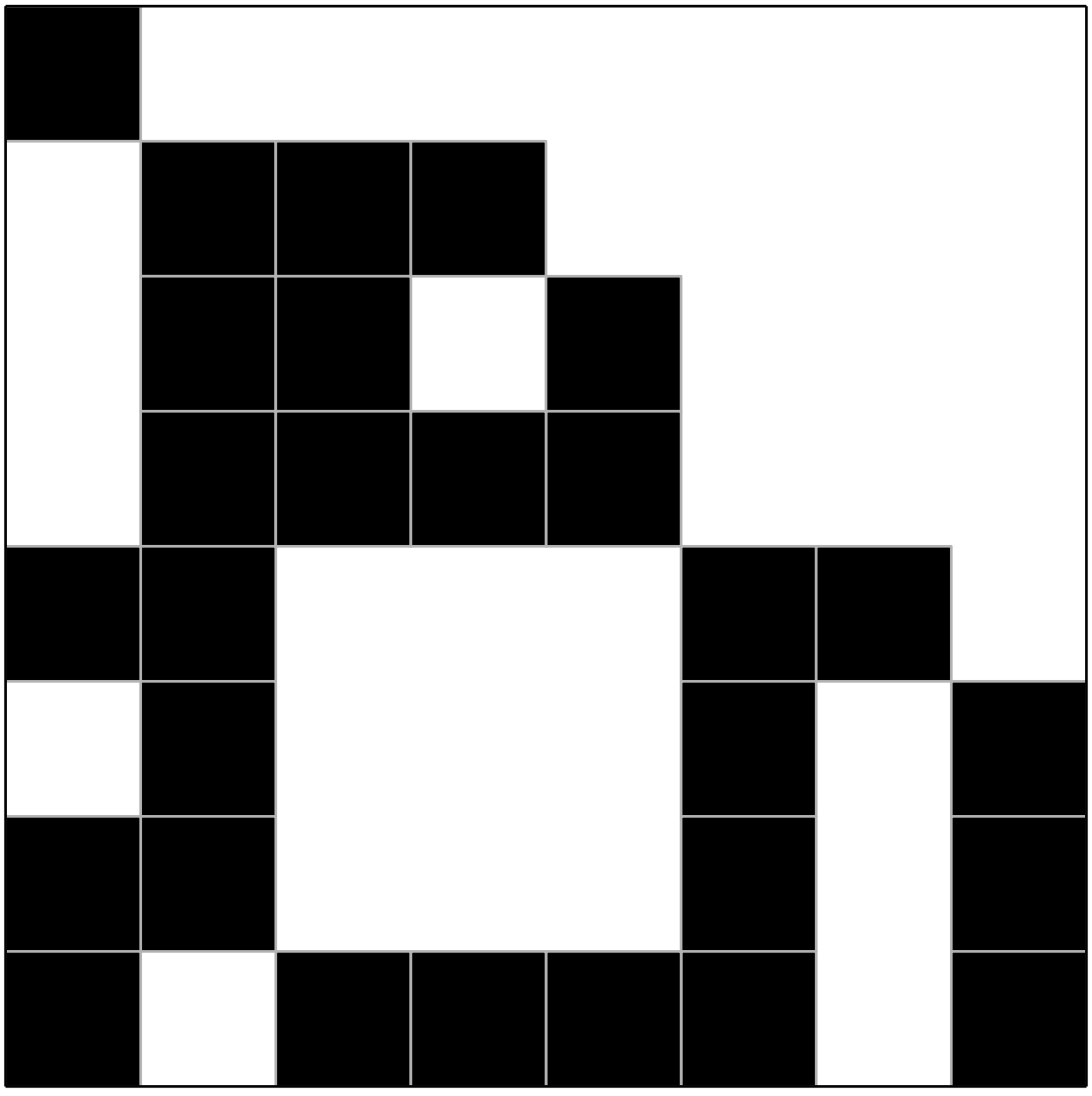
lib3_solotarev-IN 8x8 (28) con: 4, var: 4



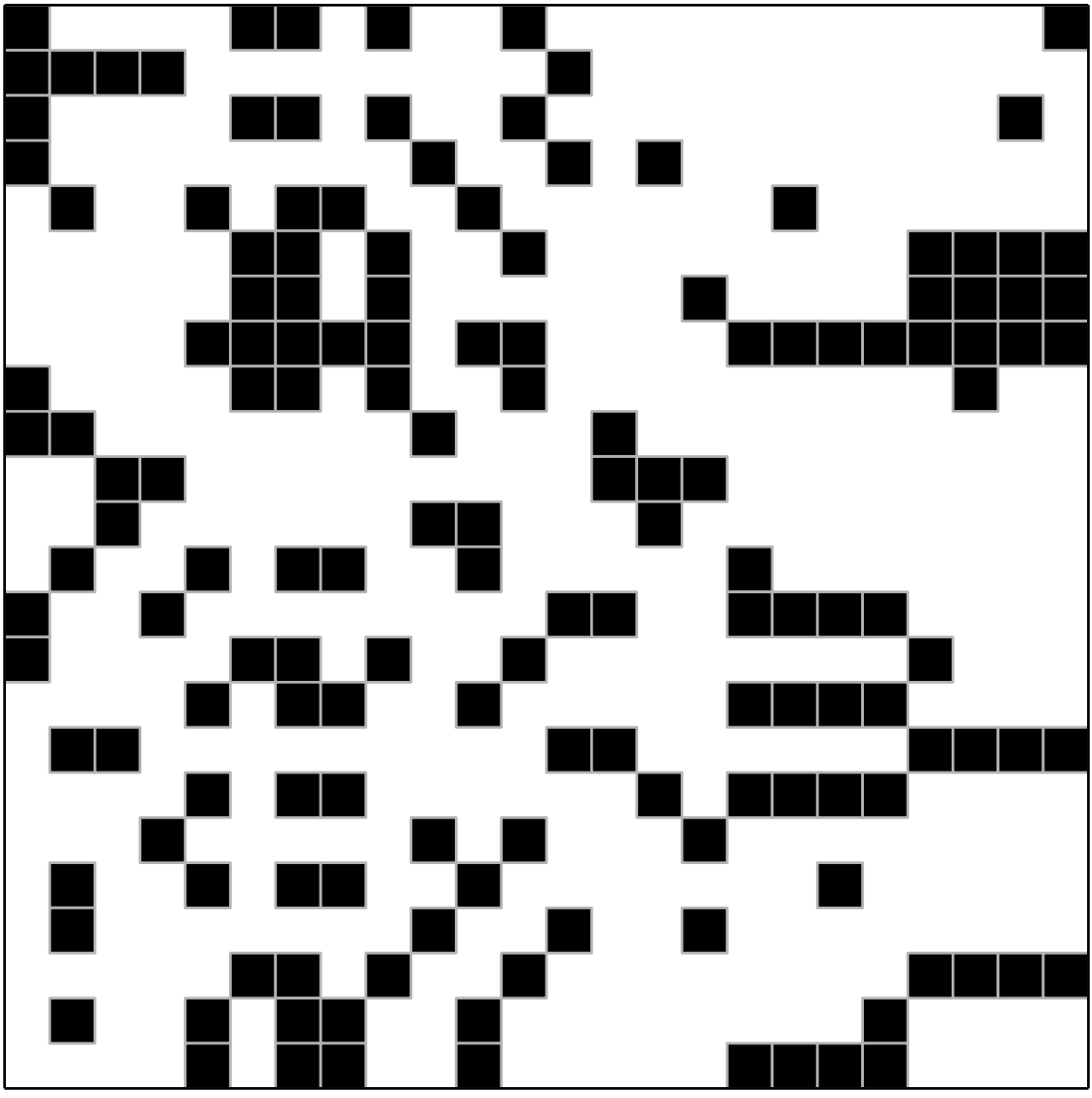

lib3_solotarev-IN, cost: 3, diff: 3, explored: 4, time: 0.00s

lib3_solotarev-RE 8x8 (28) con: 4, var: 4

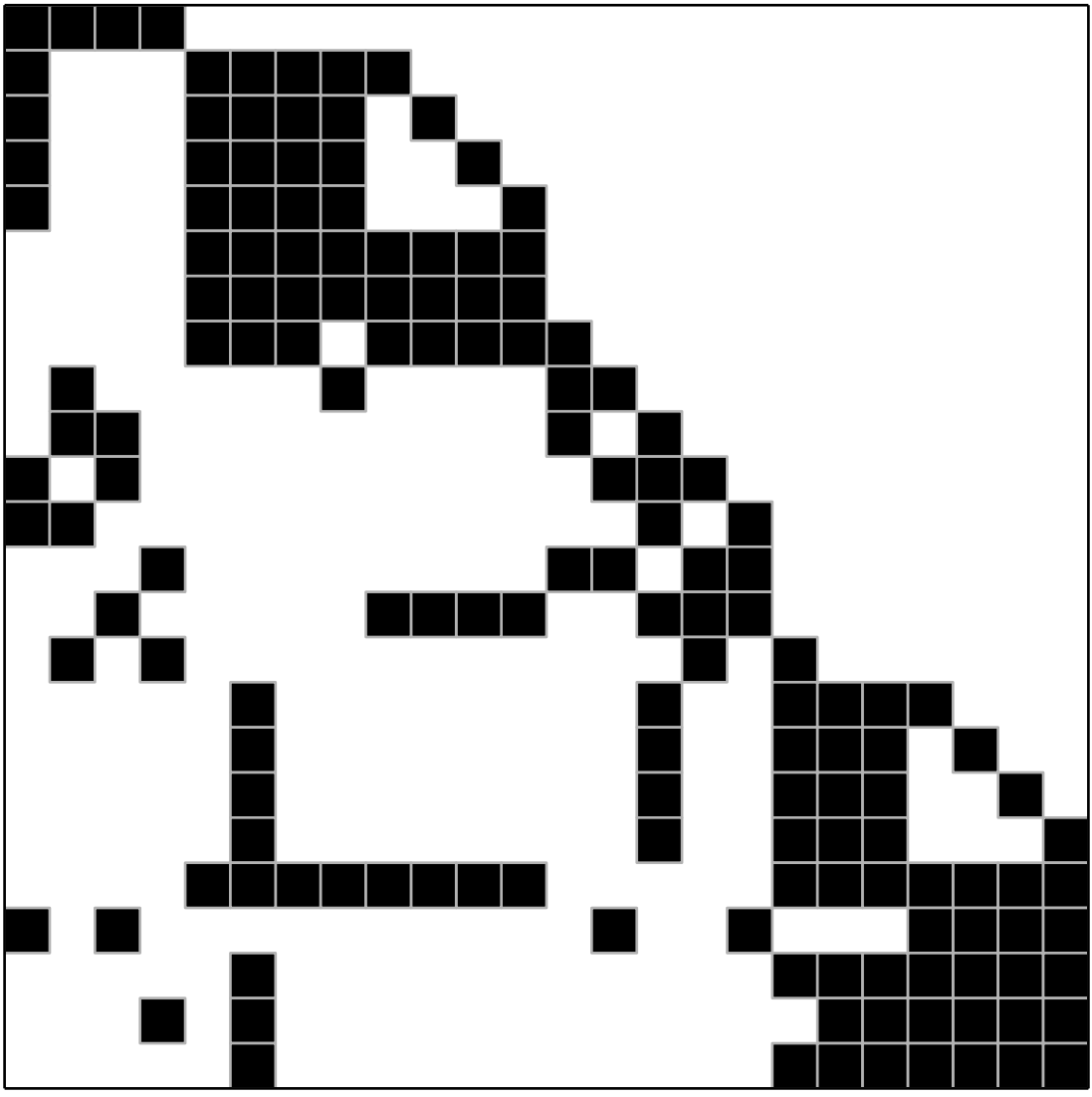



lib3_solotarev-RE, cost: 3, diff: 3, explored: 4, time: 0.00s

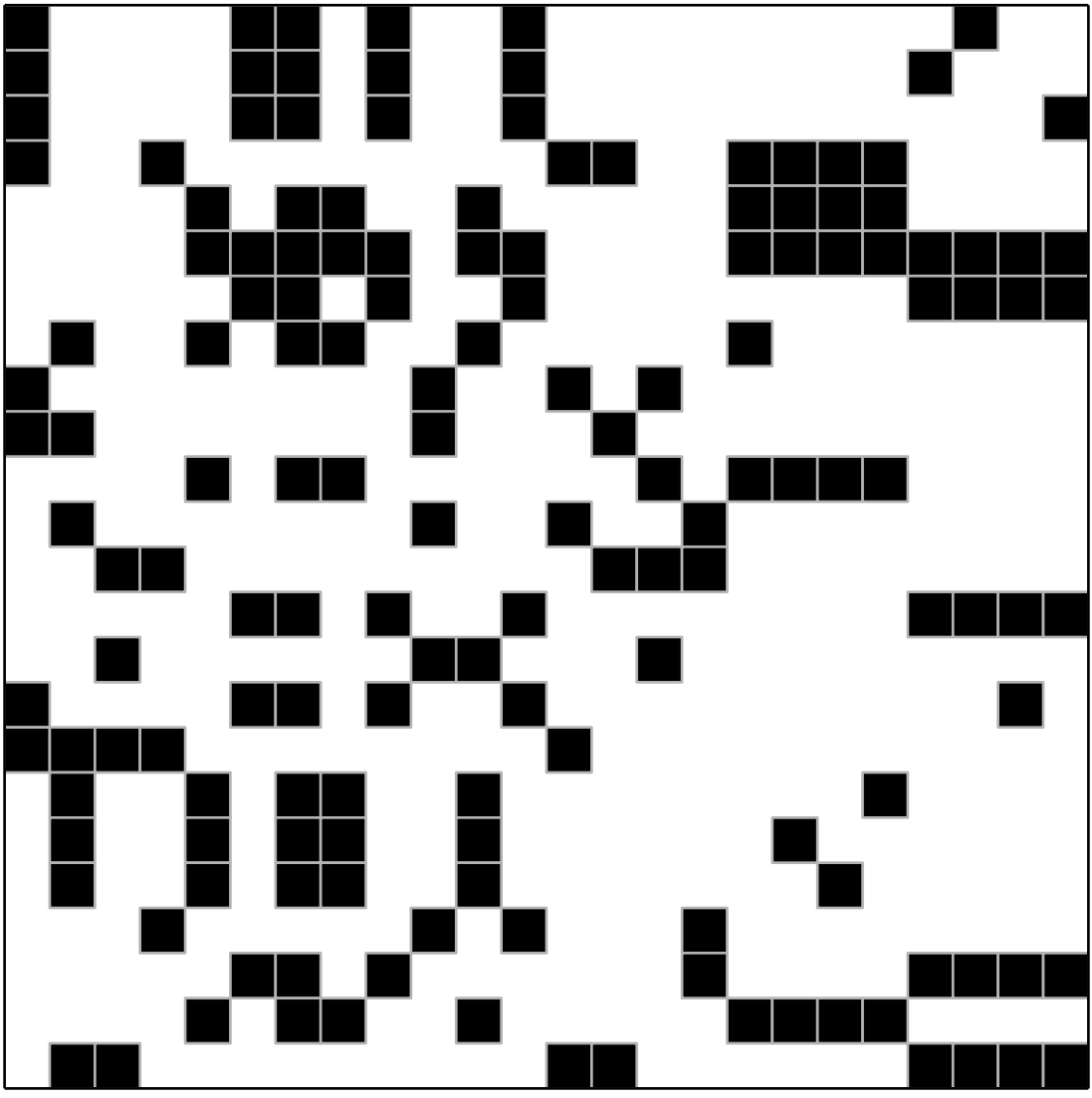
lib3_transistor-00 24x24 (157) con: 12, var: 12



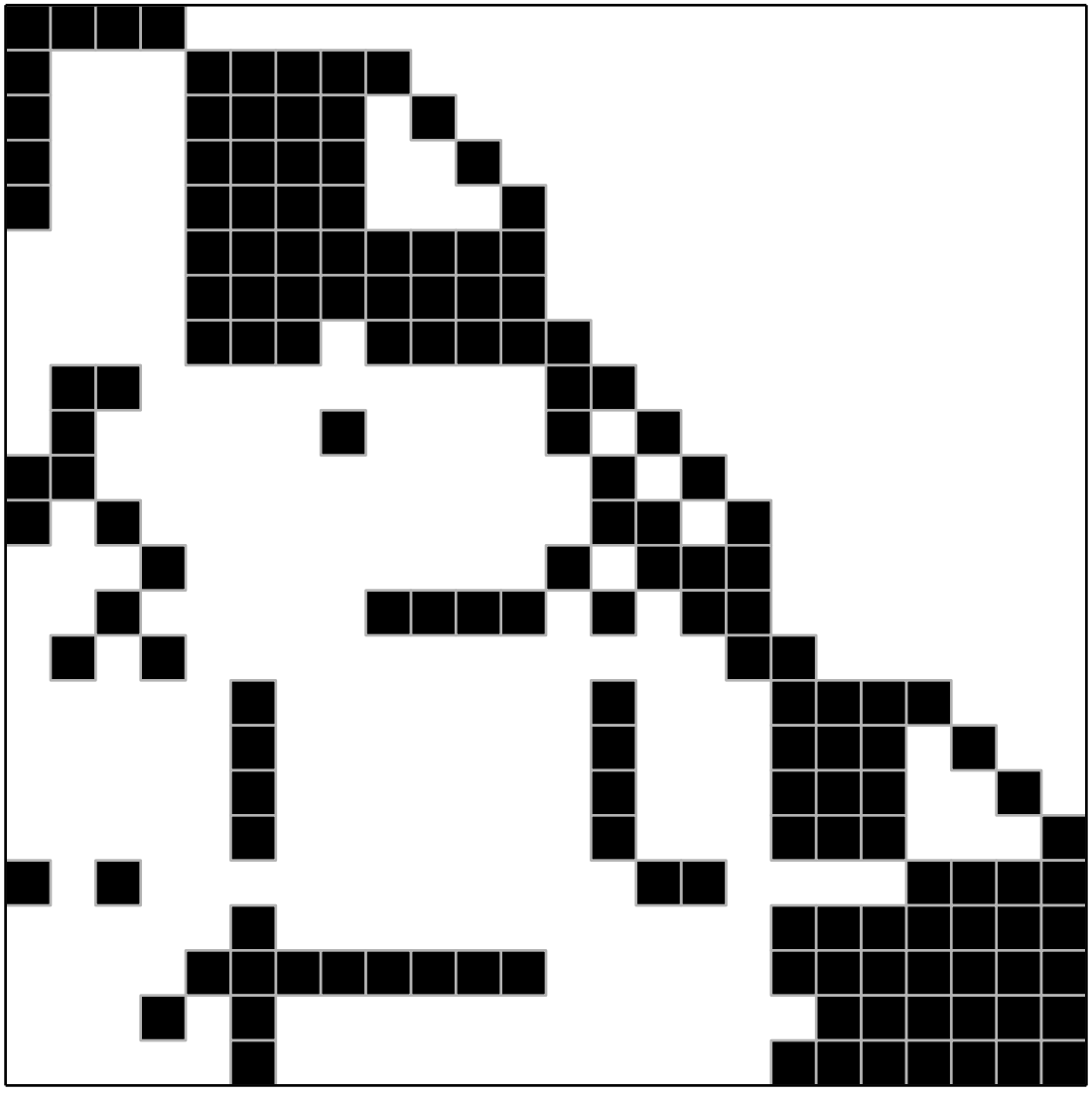
lib3_transistor-00, cost: 9, diff: 9, explored: 49, time: 0.02s



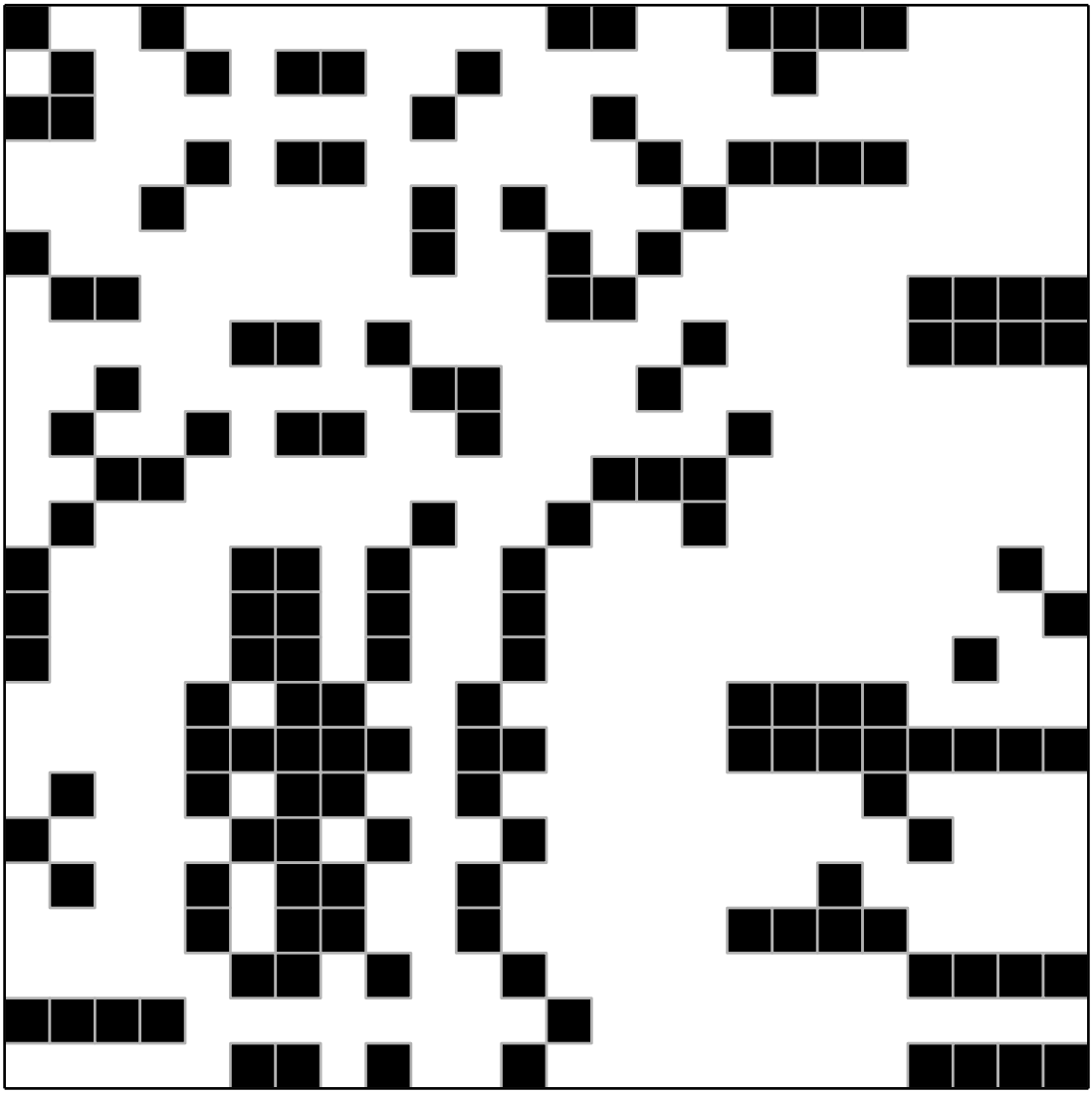
lib3_transistor-01 24x24 (157) con: 12, var: 12



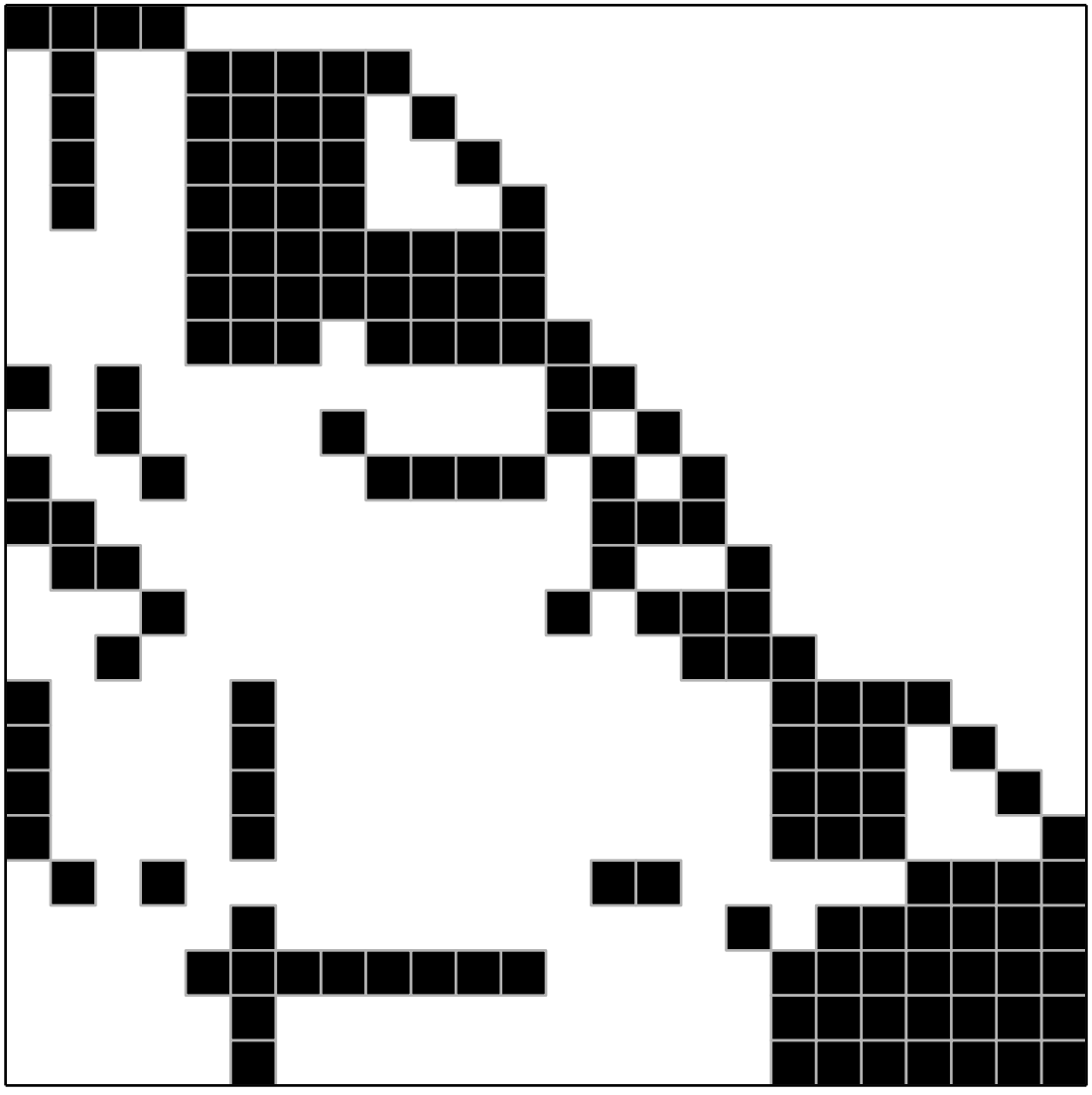
lib3_transistor-01, cost: 9, diff: 9, explored: 50, time: 0.02s



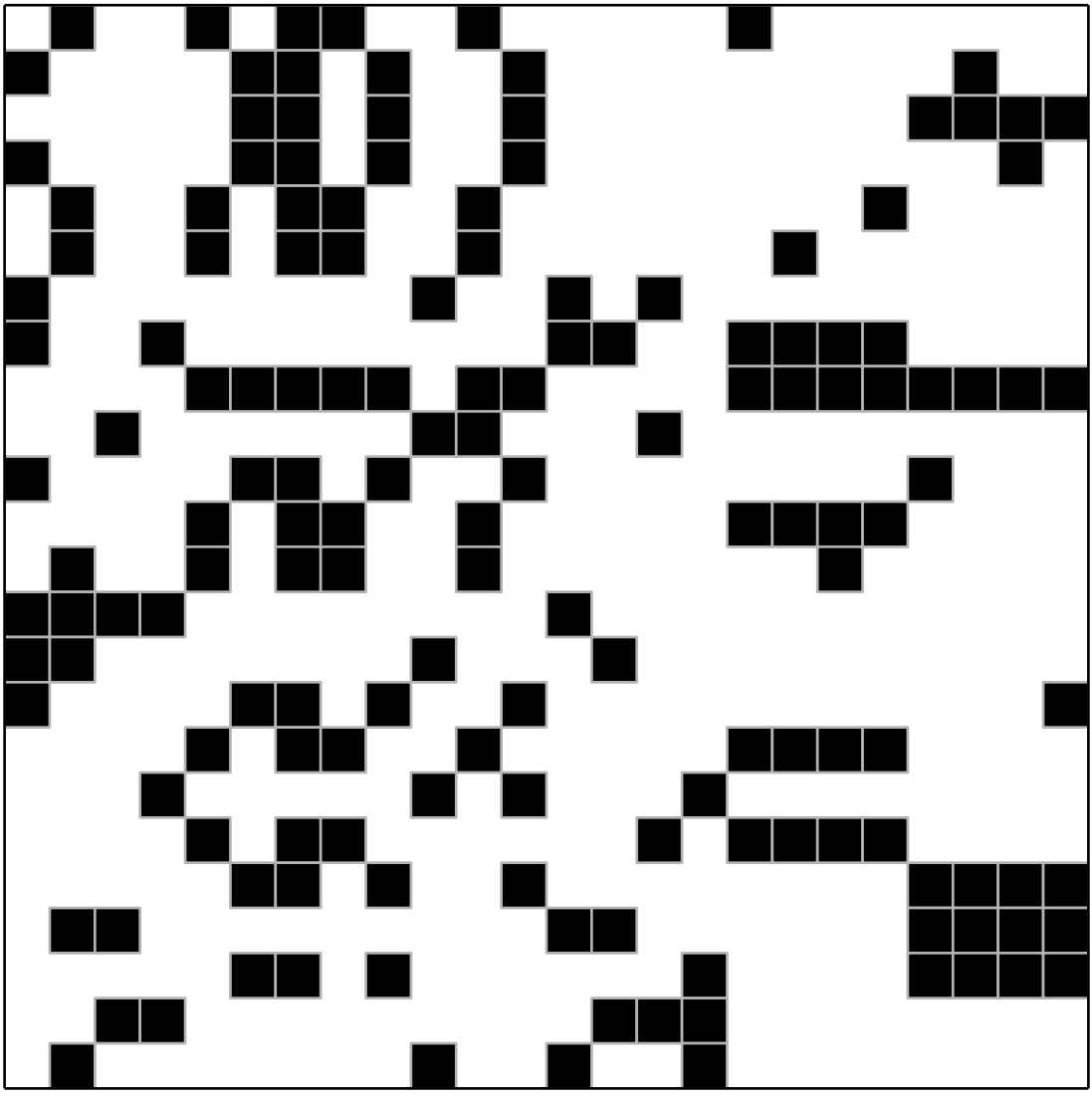
lib3_transistor-02 24x24 (157) con: 12, var: 12



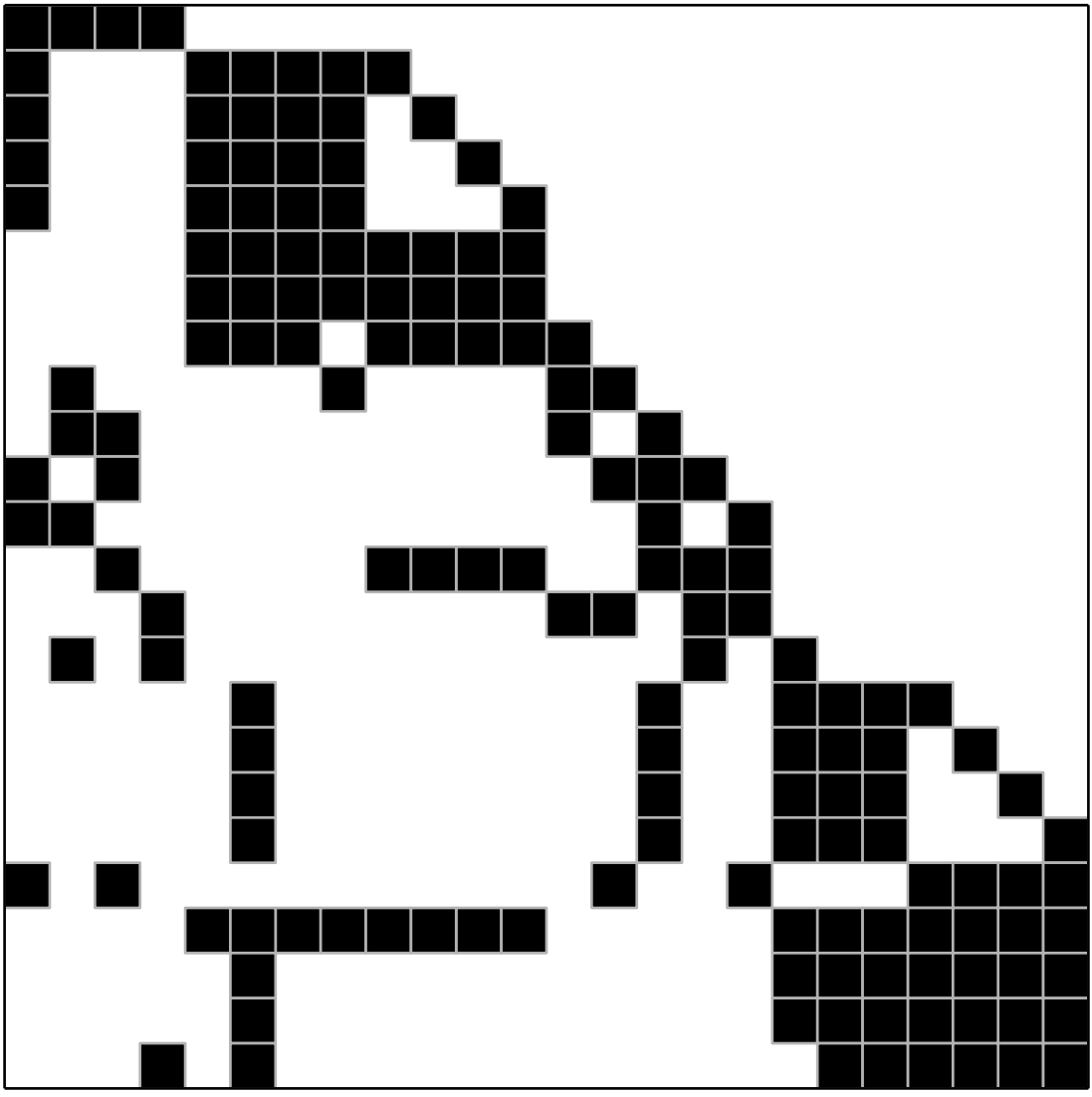
lib3_transistor-02, cost: 9, diff: 9, explored: 50, time: 0.02s

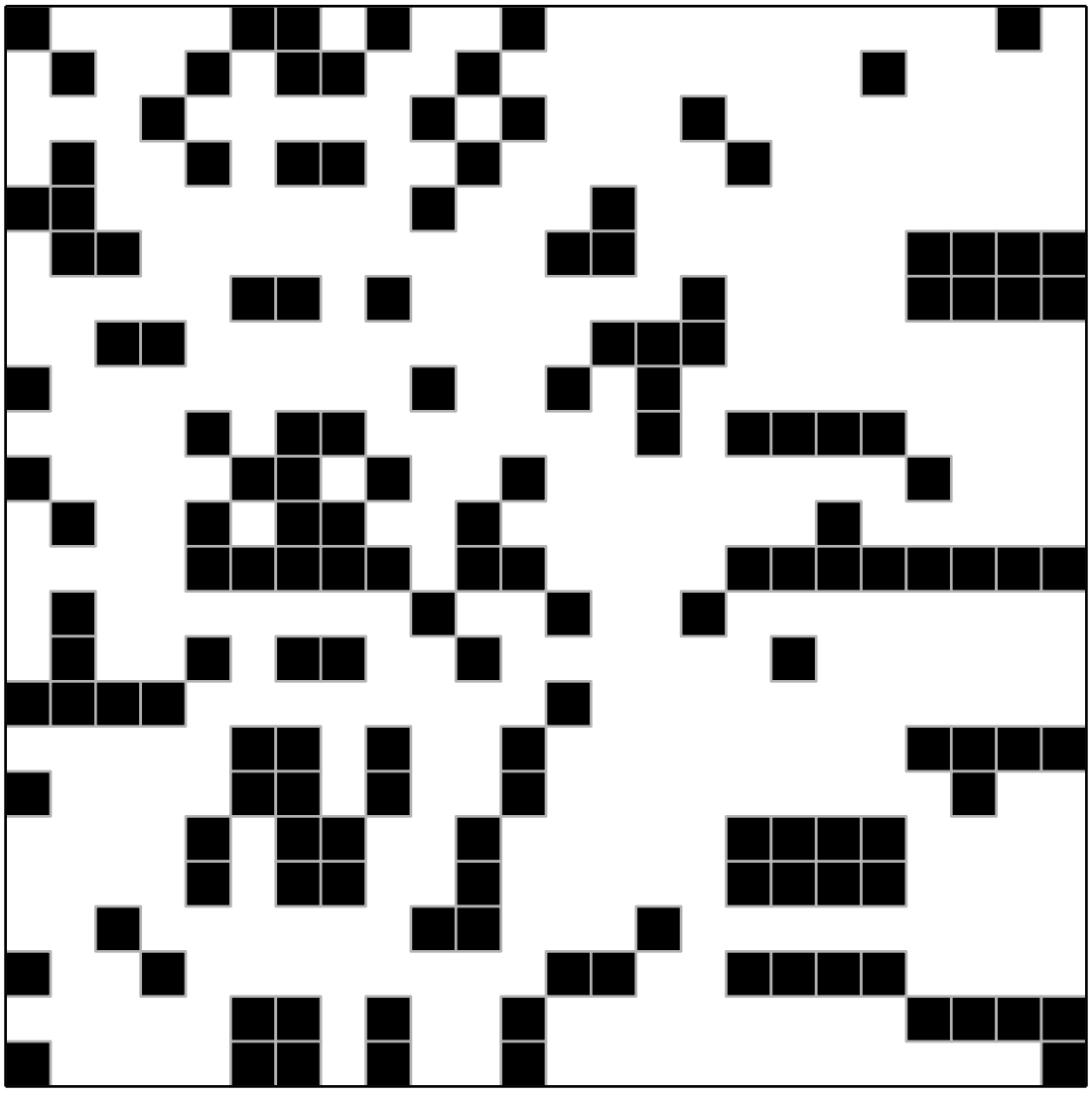


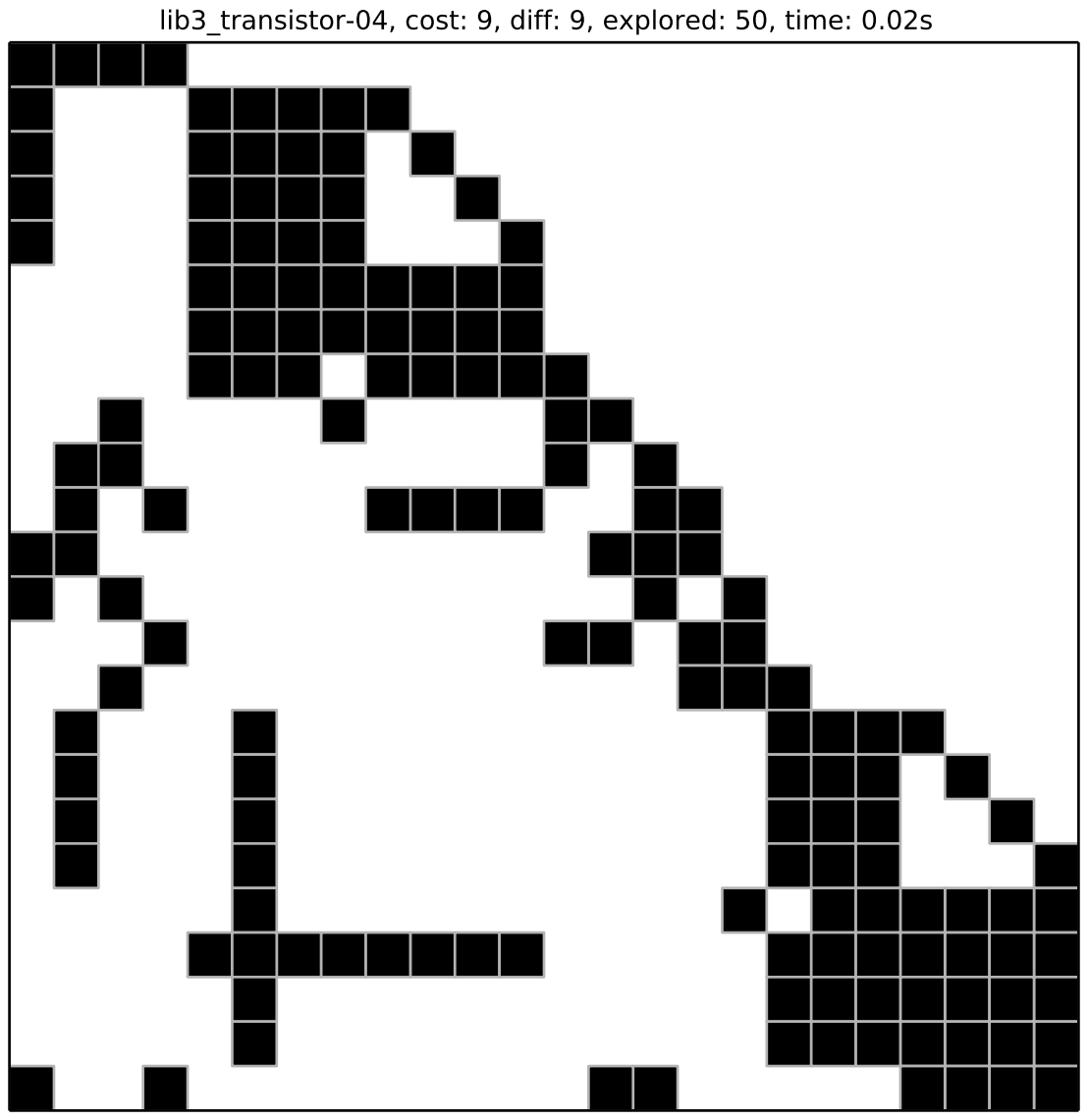
lib3_transistor-03 24x24 (157) con: 12, var: 12

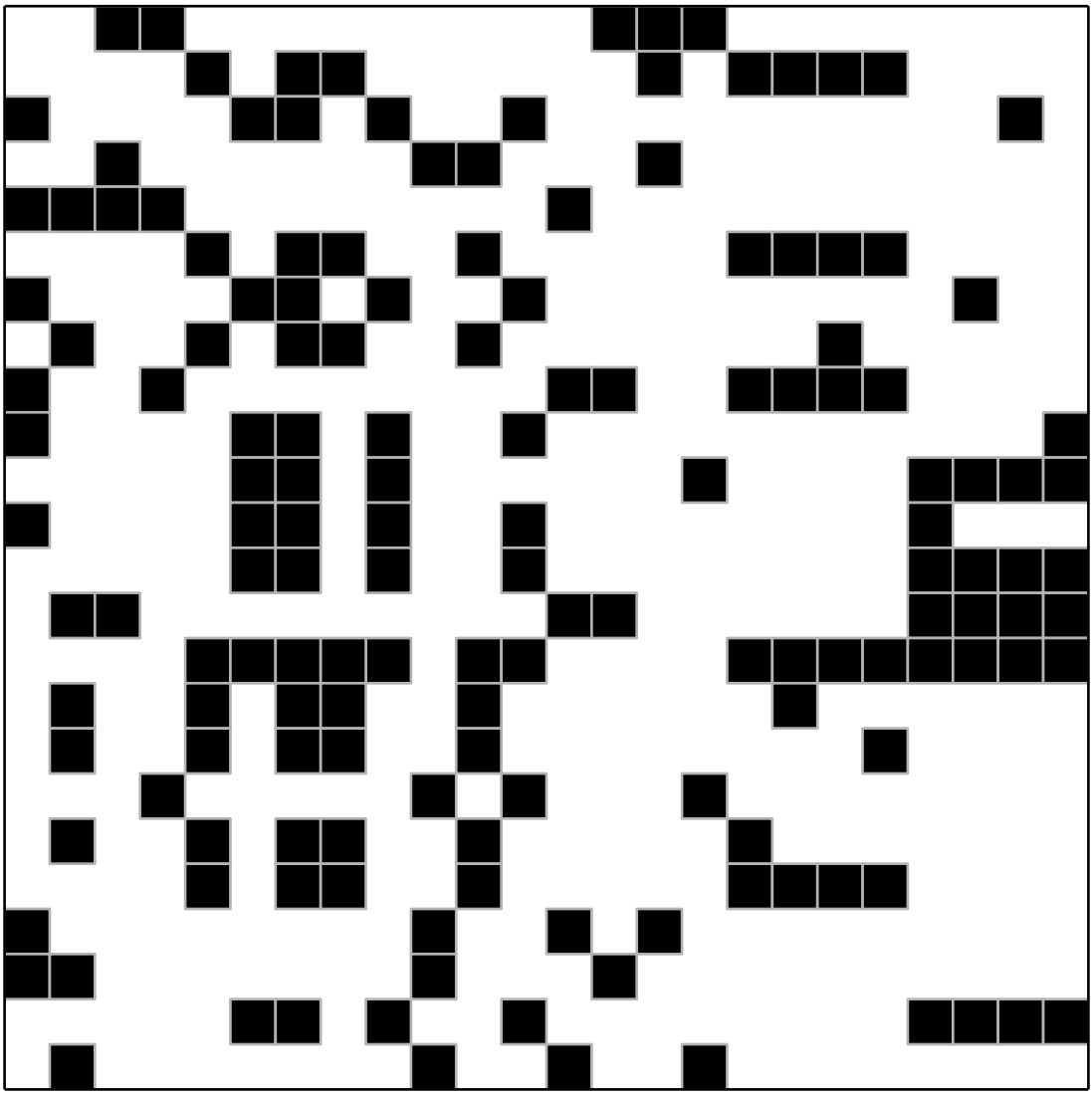


lib3_transistor-03, cost: 9, diff: 9, explored: 49, time: 0.02s

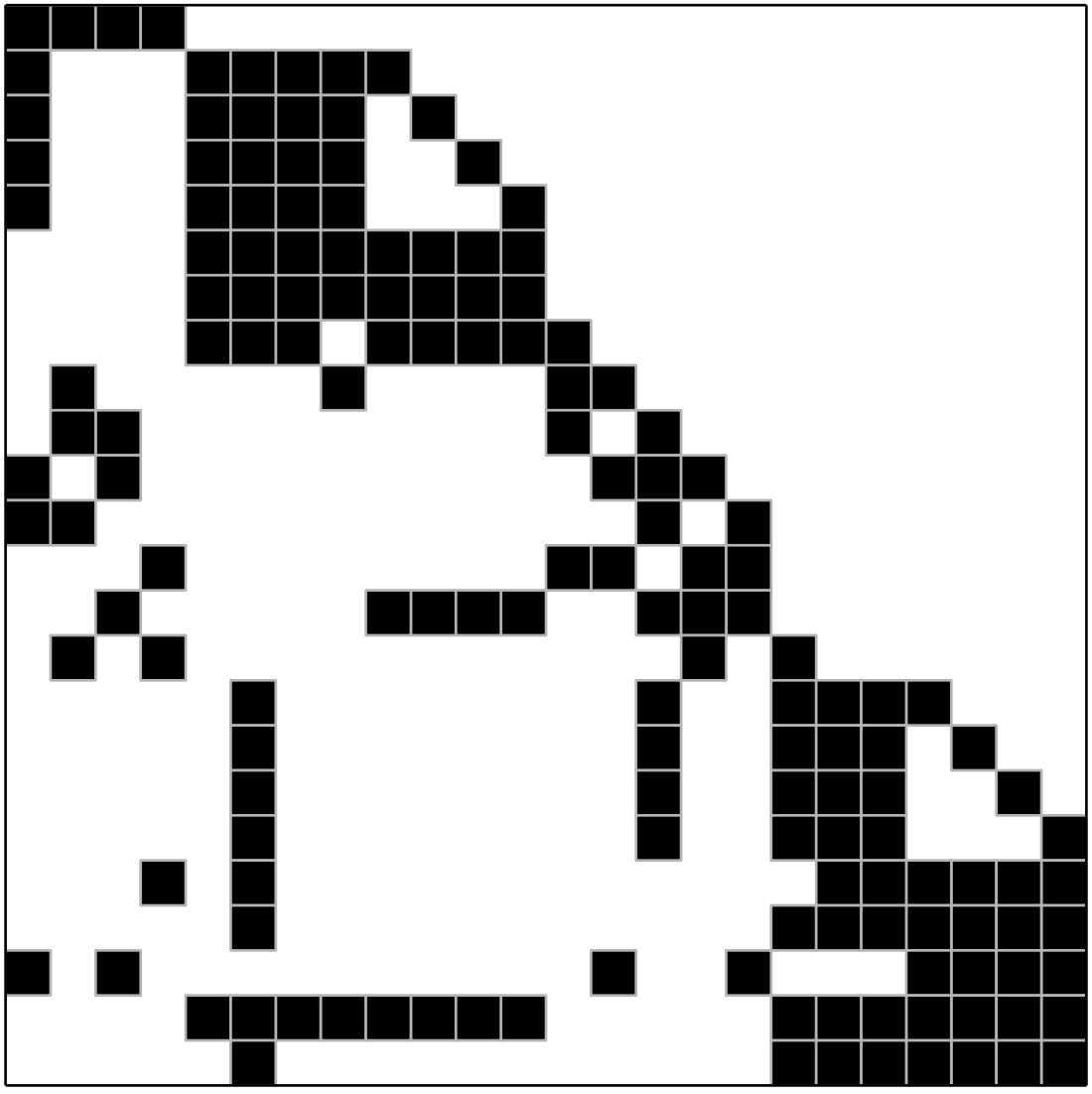


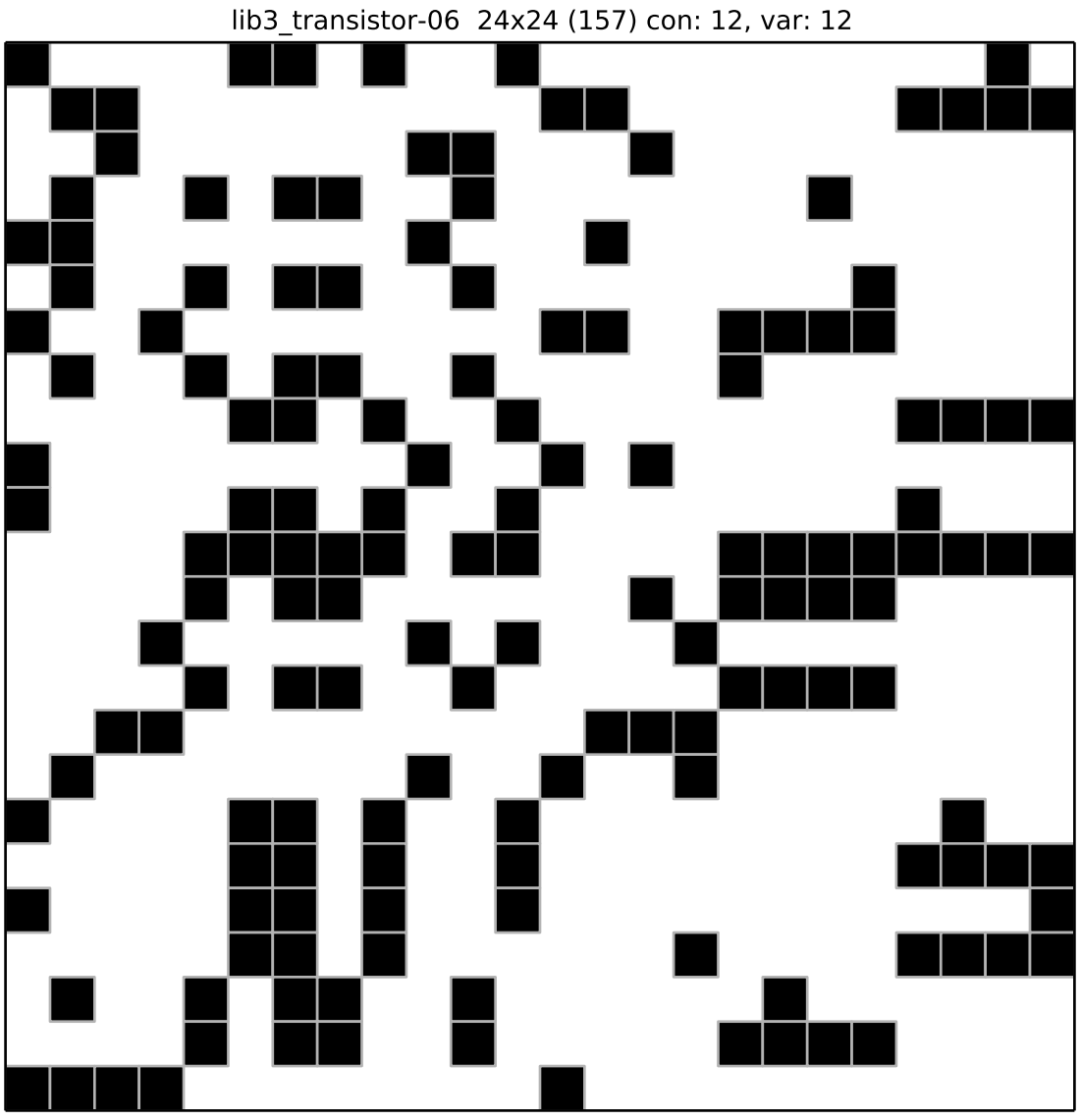

lib3_transistor-04 24x24 (157) con: 12, var: 12


lib3_transistor-04, cost: 9, diff: 9, explored: 50, time: 0.02s

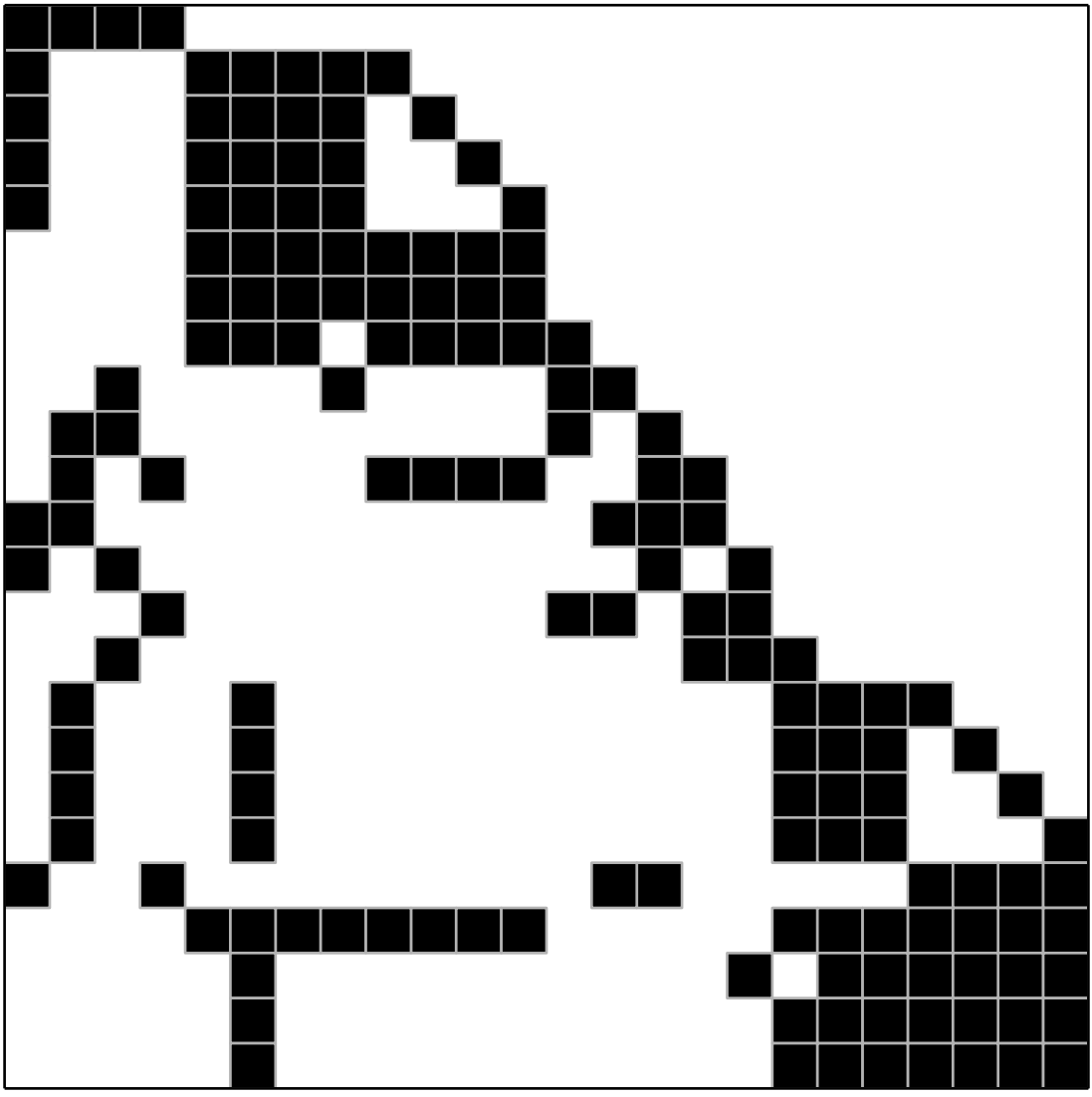

lib3_transistor-05 24x24 (157) con: 12, var: 12

lib3_transistor-05, cost: 9, diff: 9, explored: 47, time: 0.02s

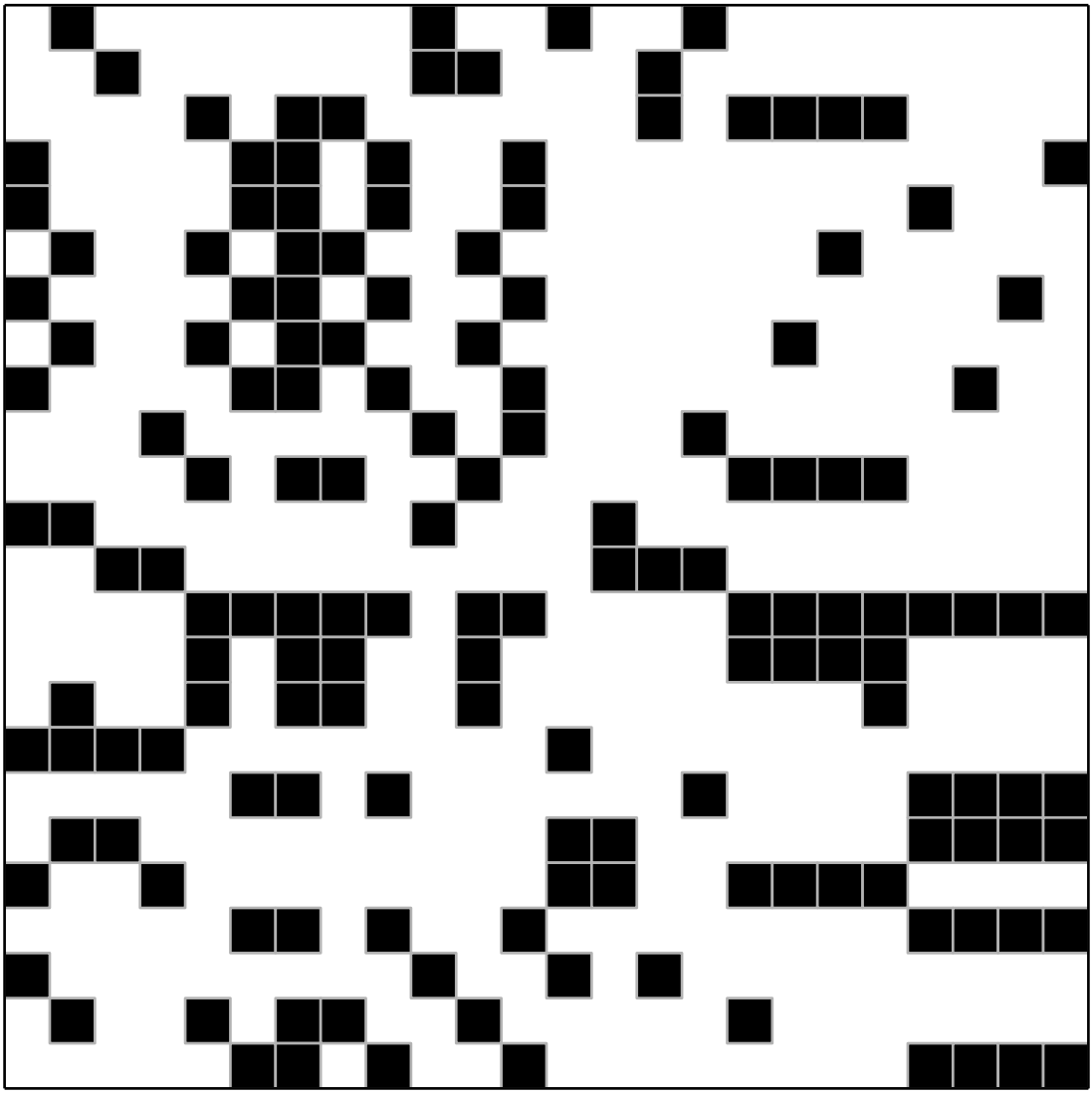



lib3_transistor-06 24x24 (157) con: 12, var: 12

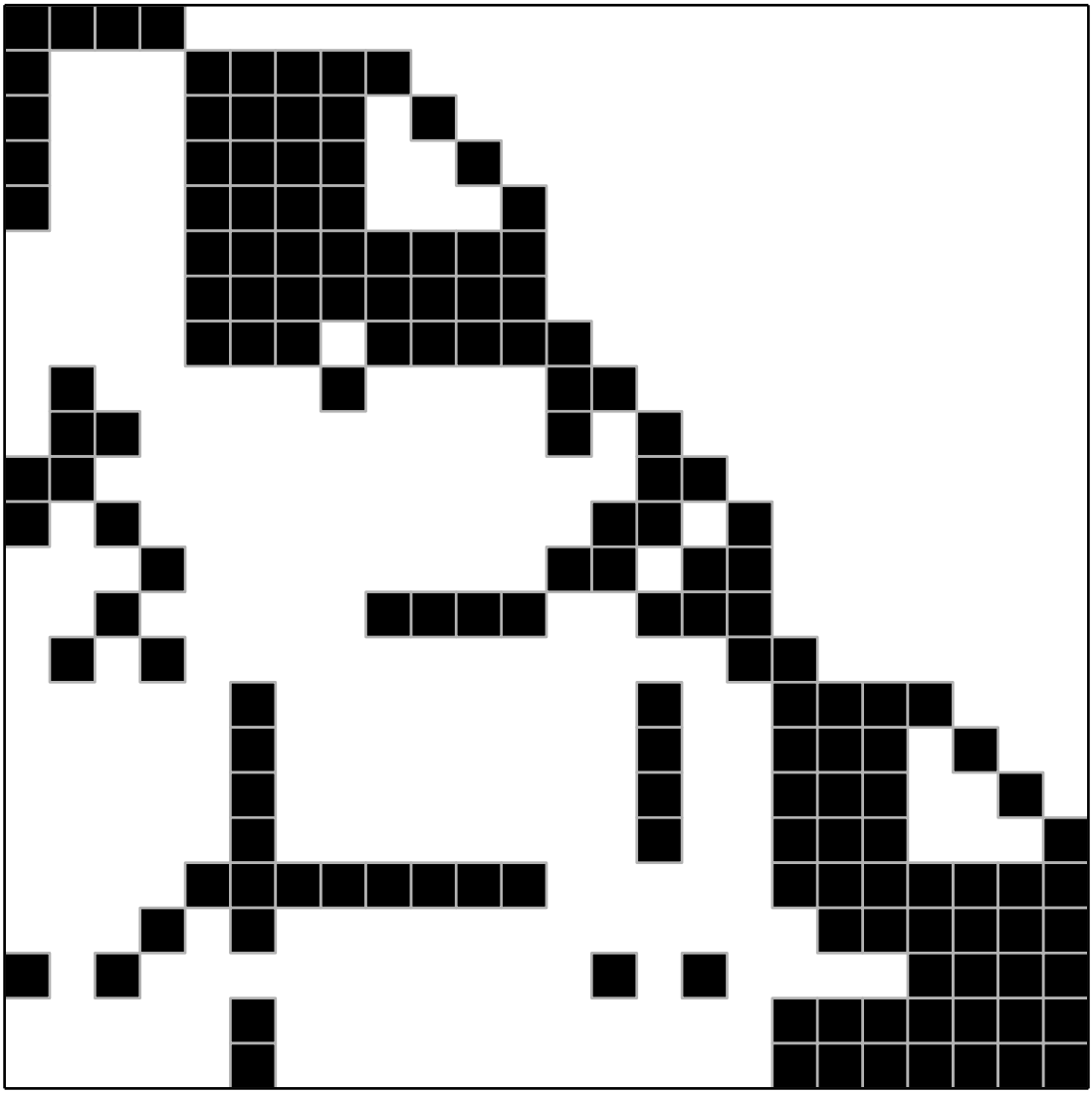
lib3_transistor-06, cost: 9, diff: 9, explored: 50, time: 0.02s

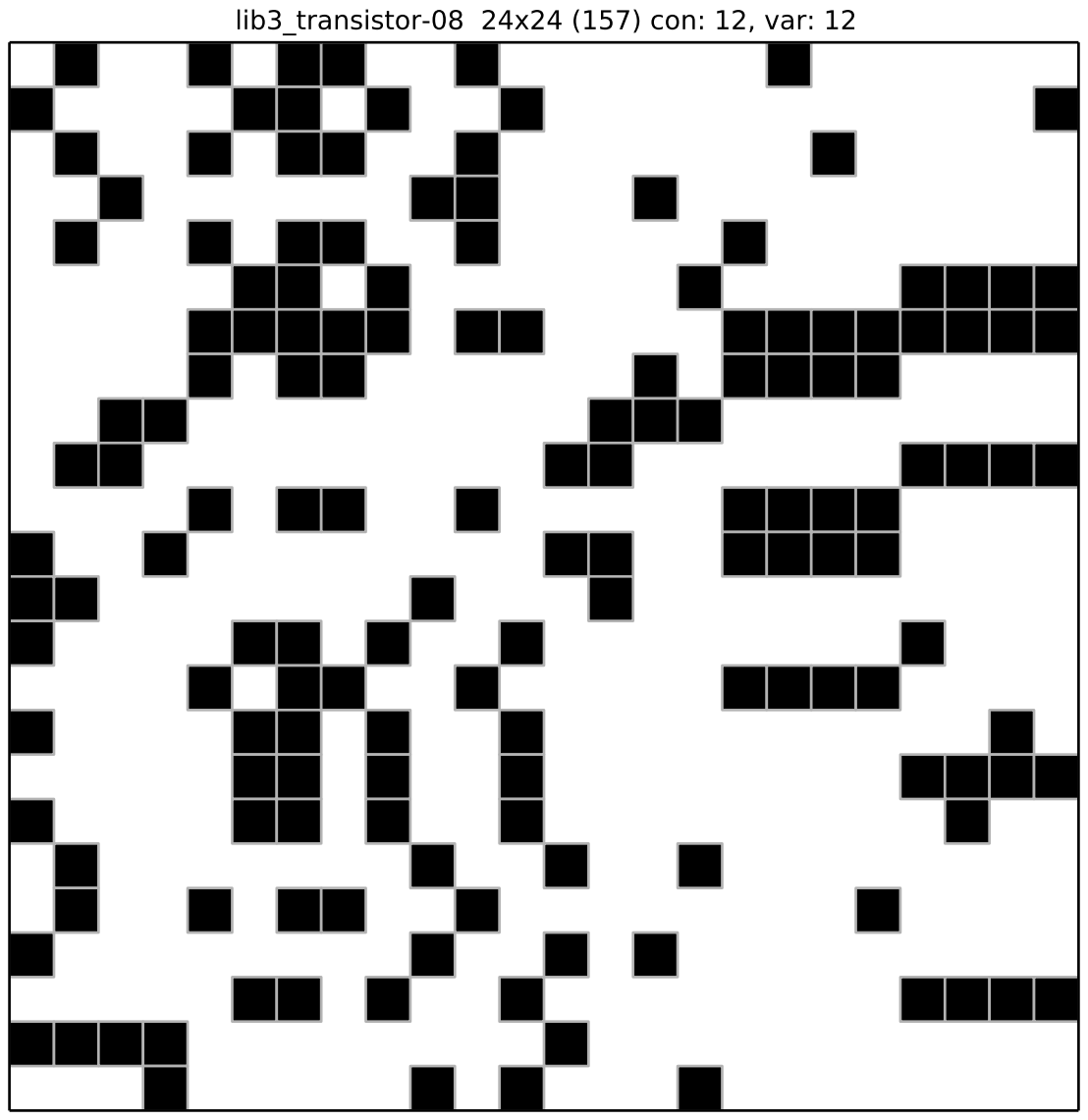


lib3_transistor-07 24x24 (157) con: 12, var: 12

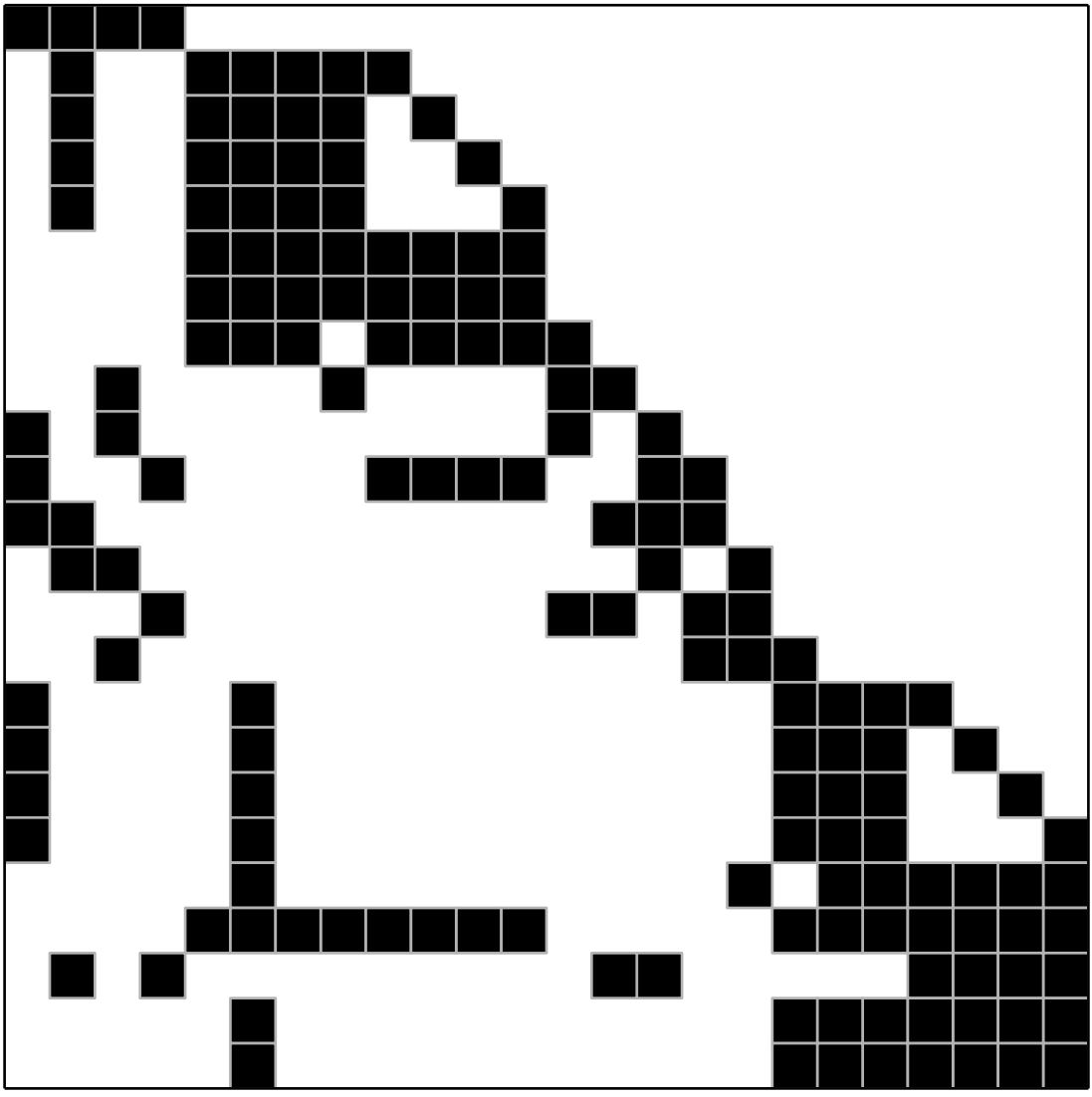


lib3_transistor-07, cost: 9, diff: 9, explored: 51, time: 0.02s

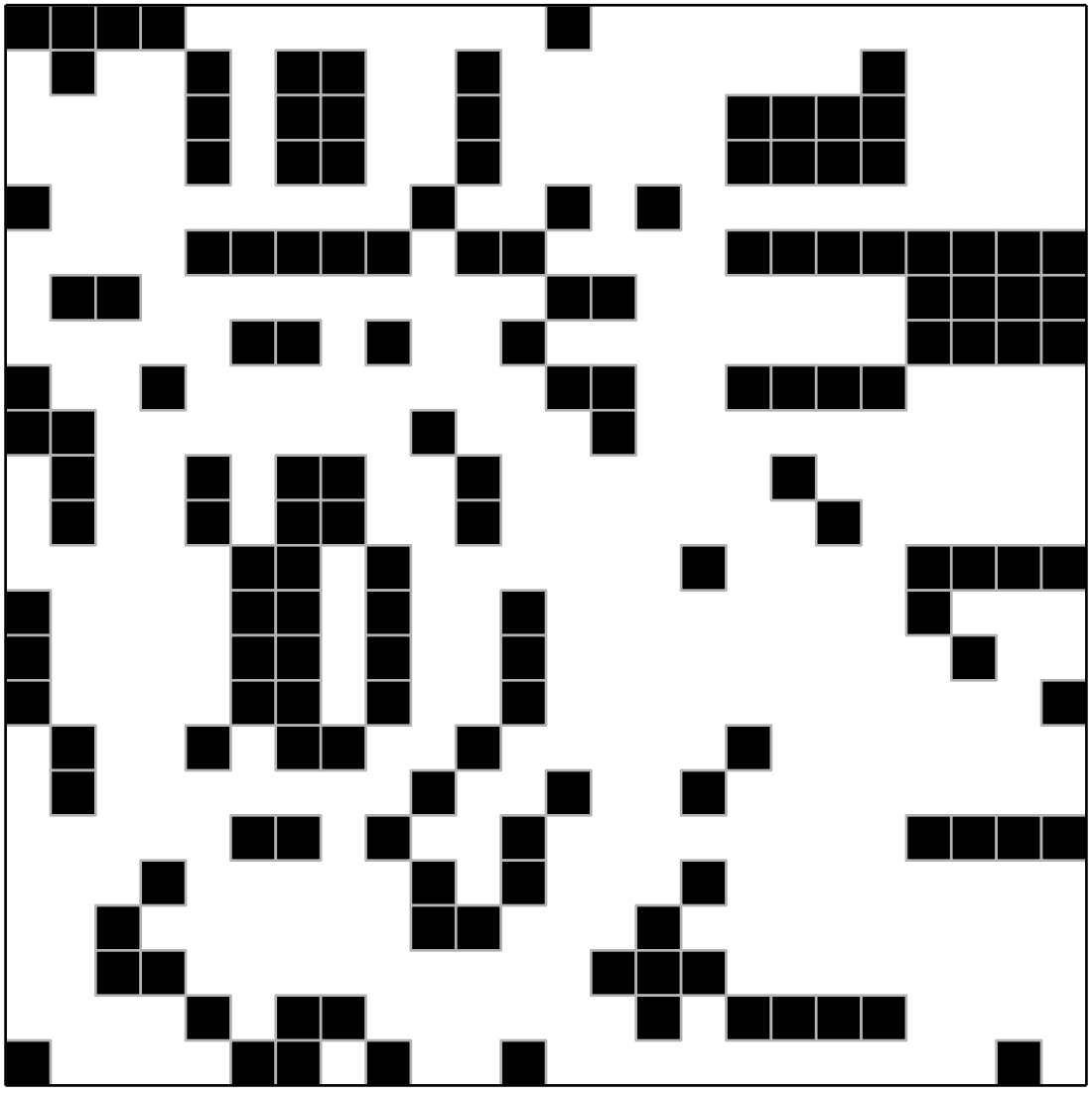


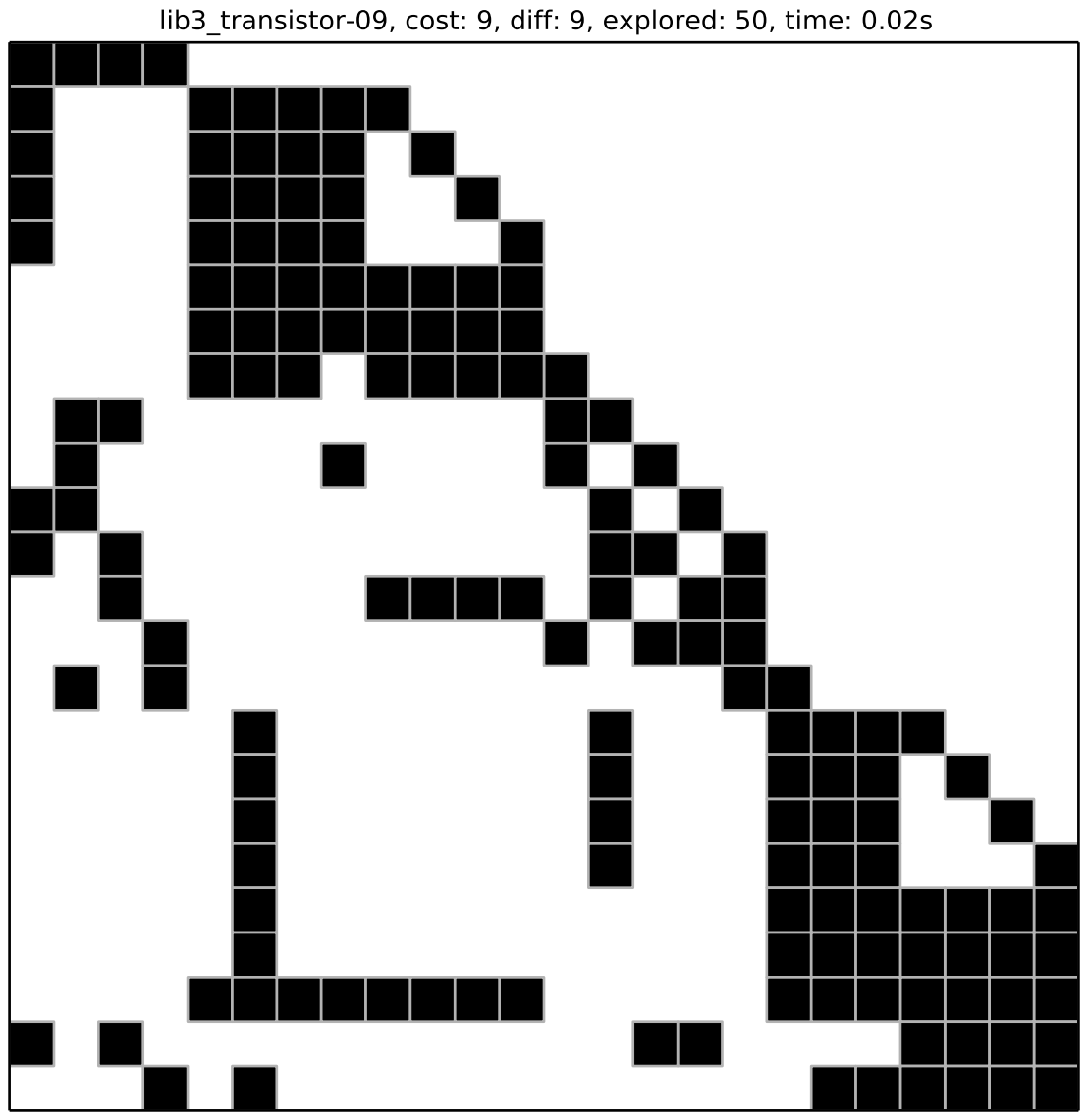

lib3_transistor-08 24x24 (157) con: 12, var: 12

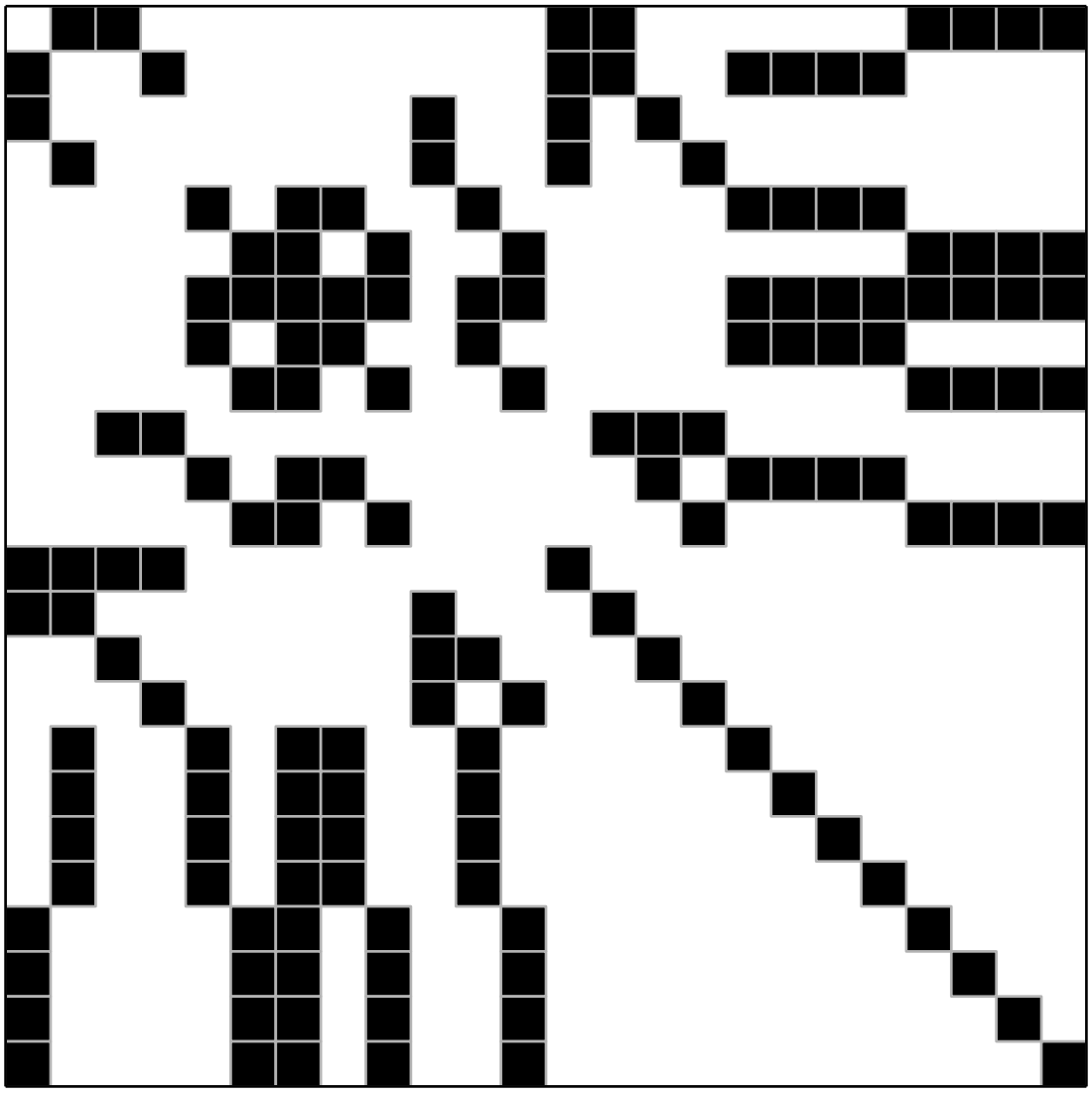
lib3_transistor-08, cost: 9, diff: 9, explored: 50, time: 0.02s



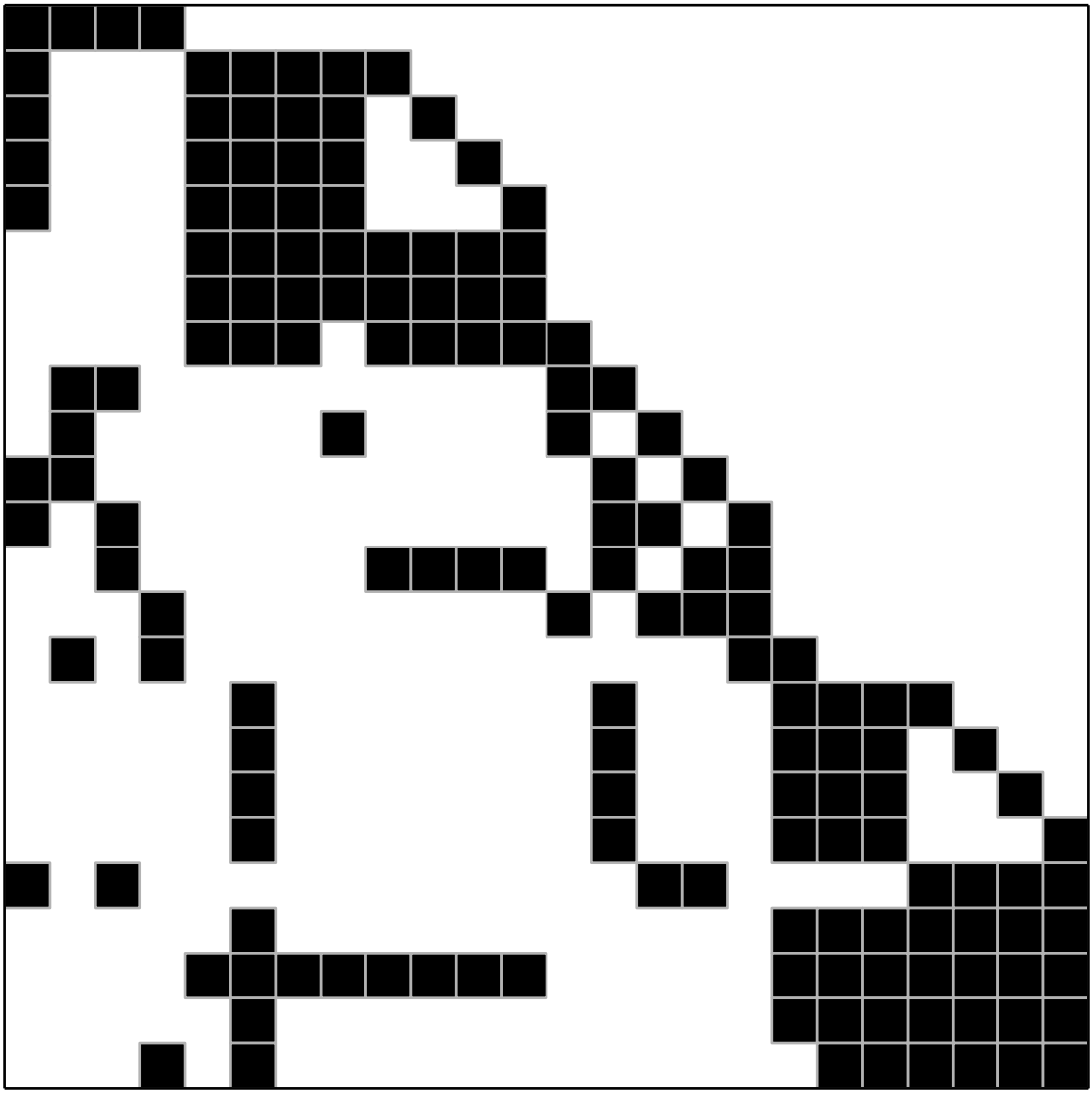
lib3_transistor-09 24x24 (157) con: 12, var: 12

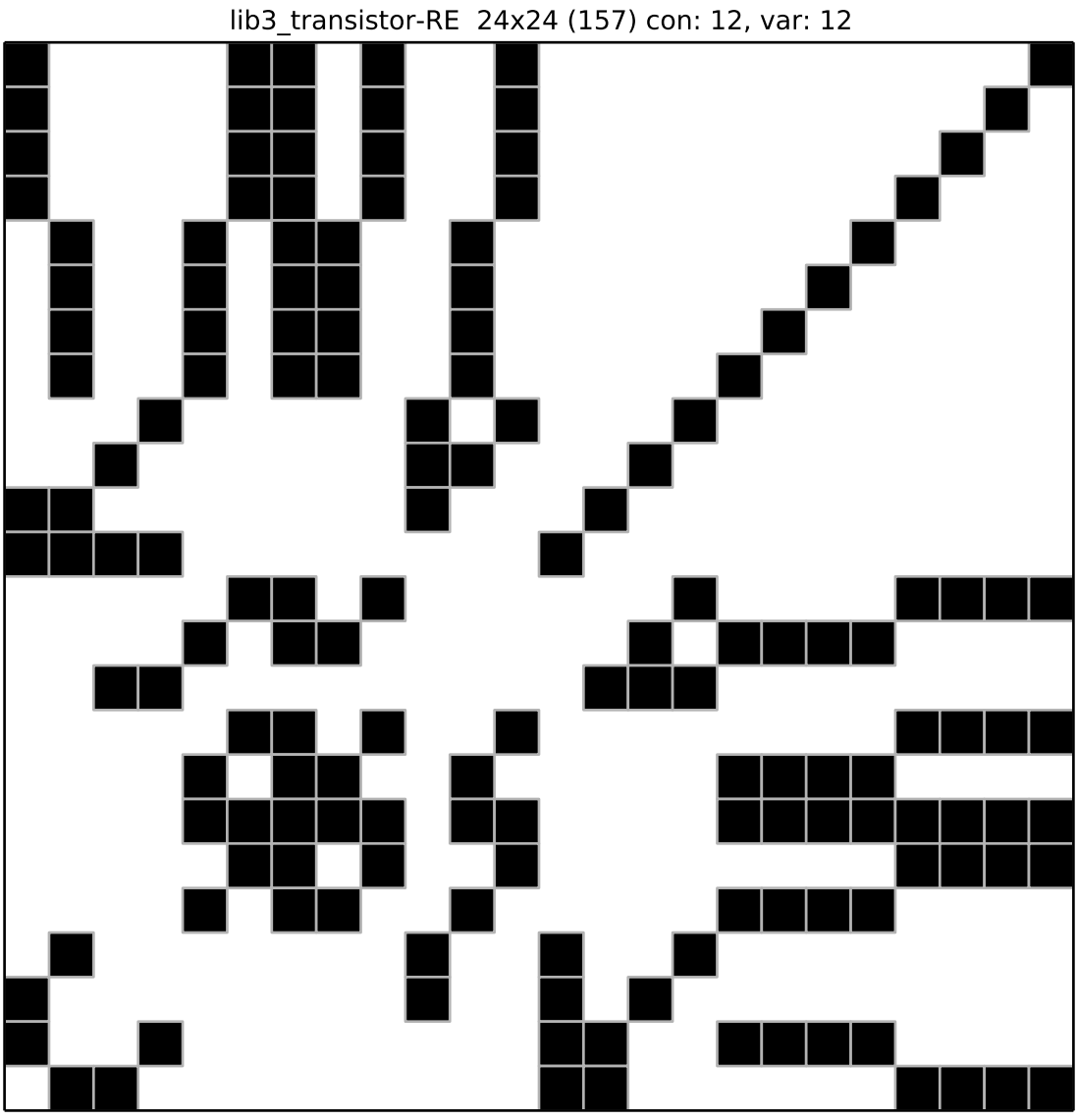


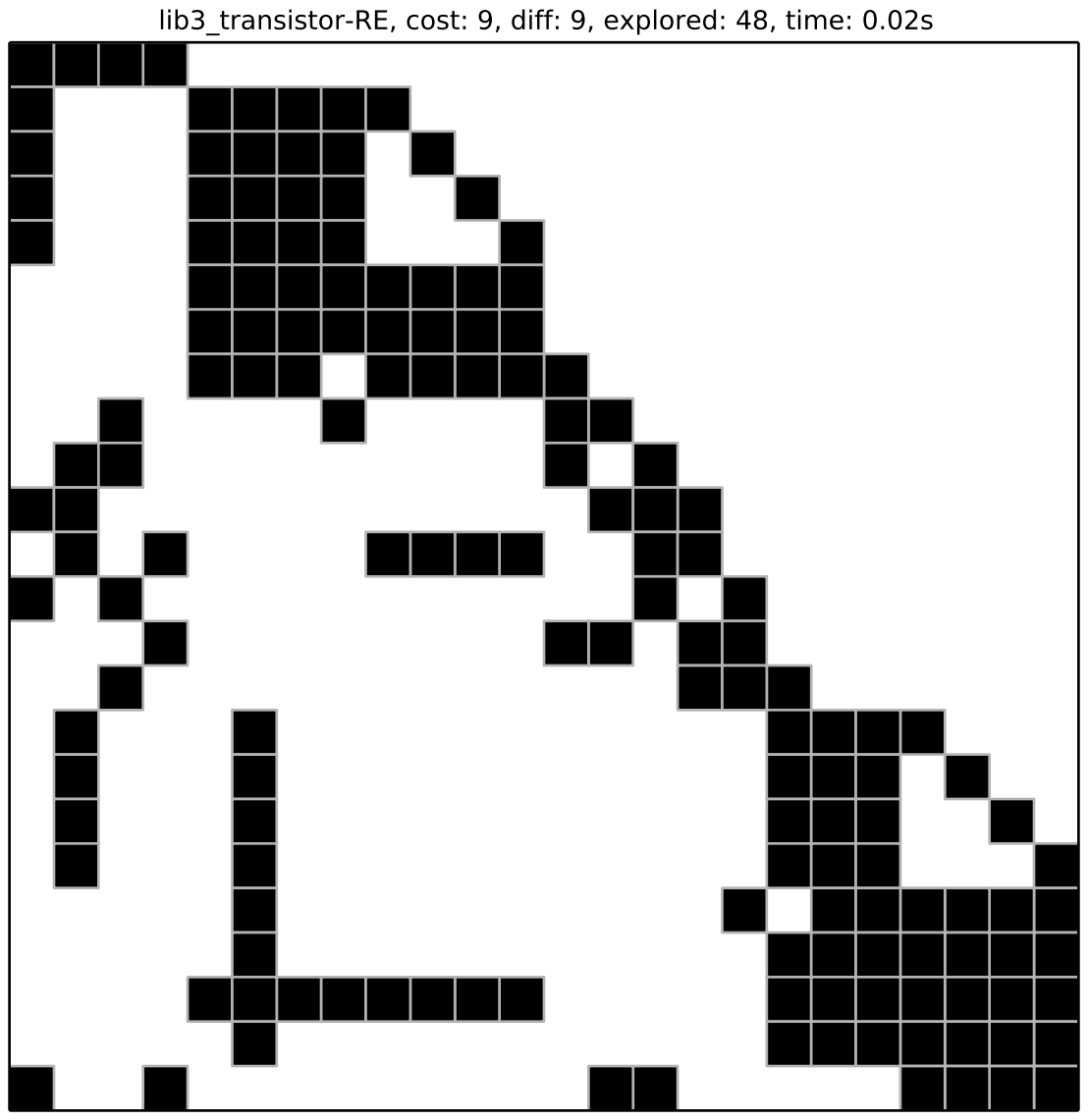

lib3_transistor-09, cost: 9, diff: 9, explored: 50, time: 0.02s


lib3_transistor-IN 24x24 (157) con: 12, var: 12

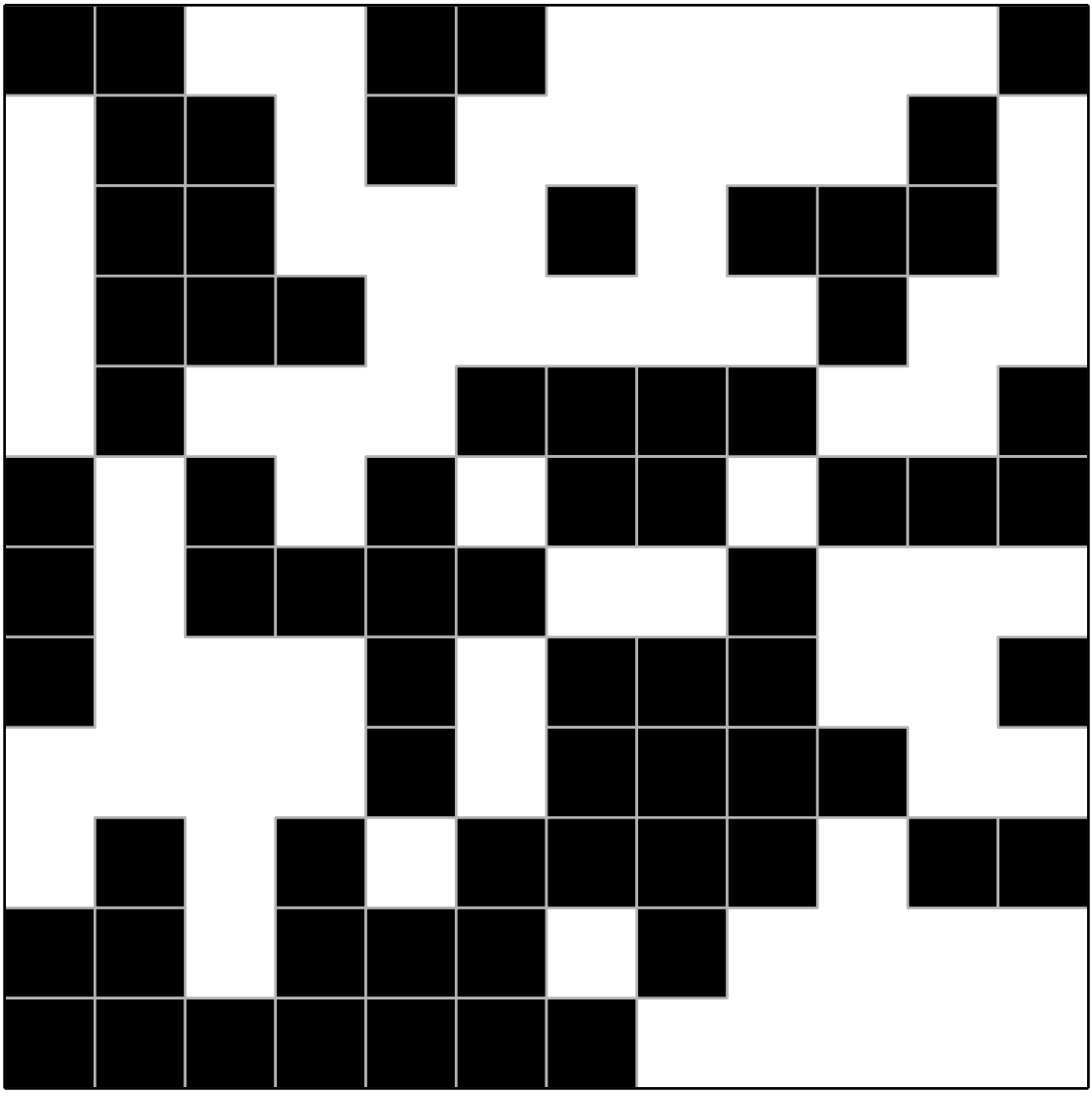
lib3_transistor-IN, cost: 9, diff: 9, explored: 54, time: 0.02s

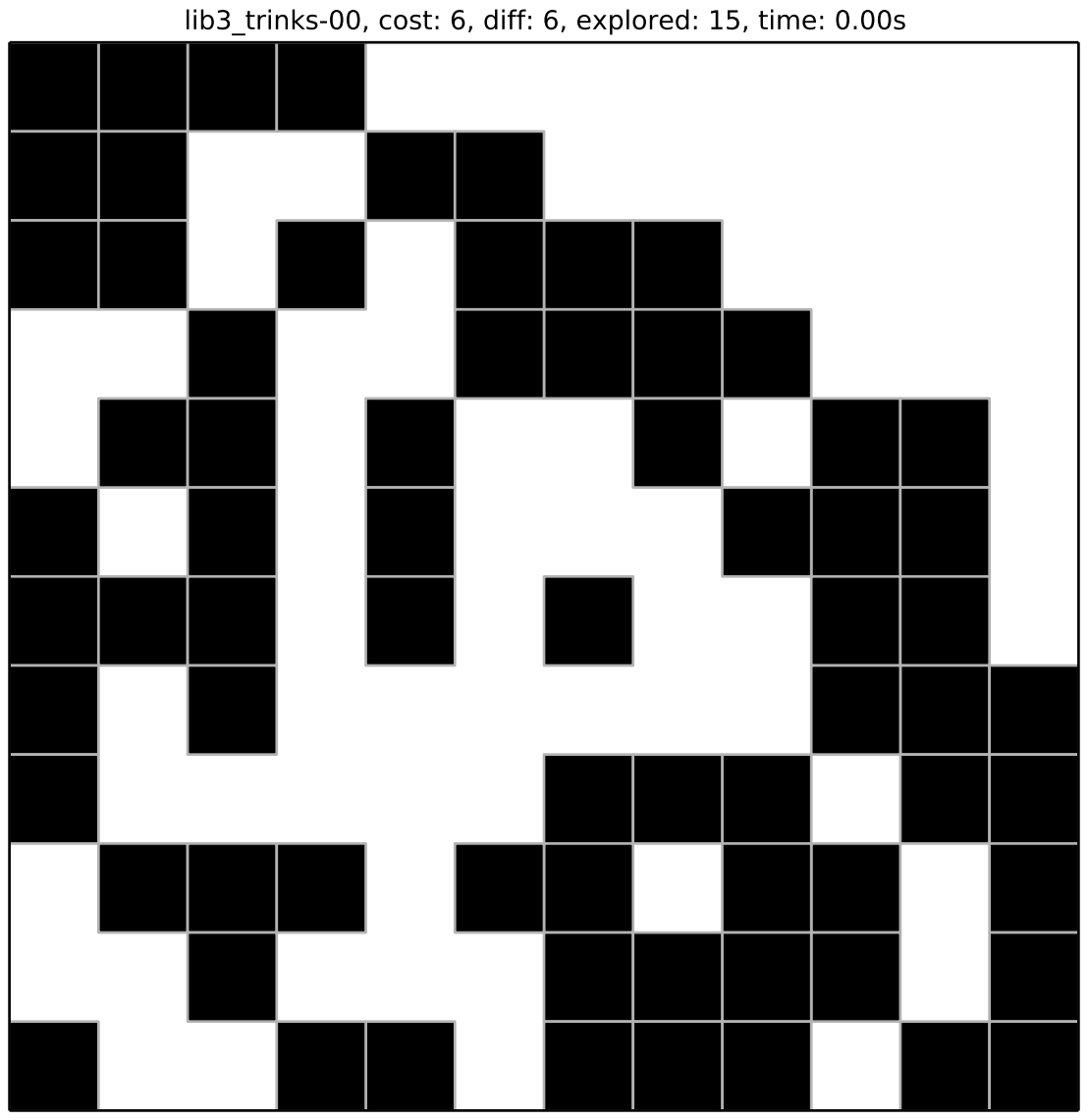


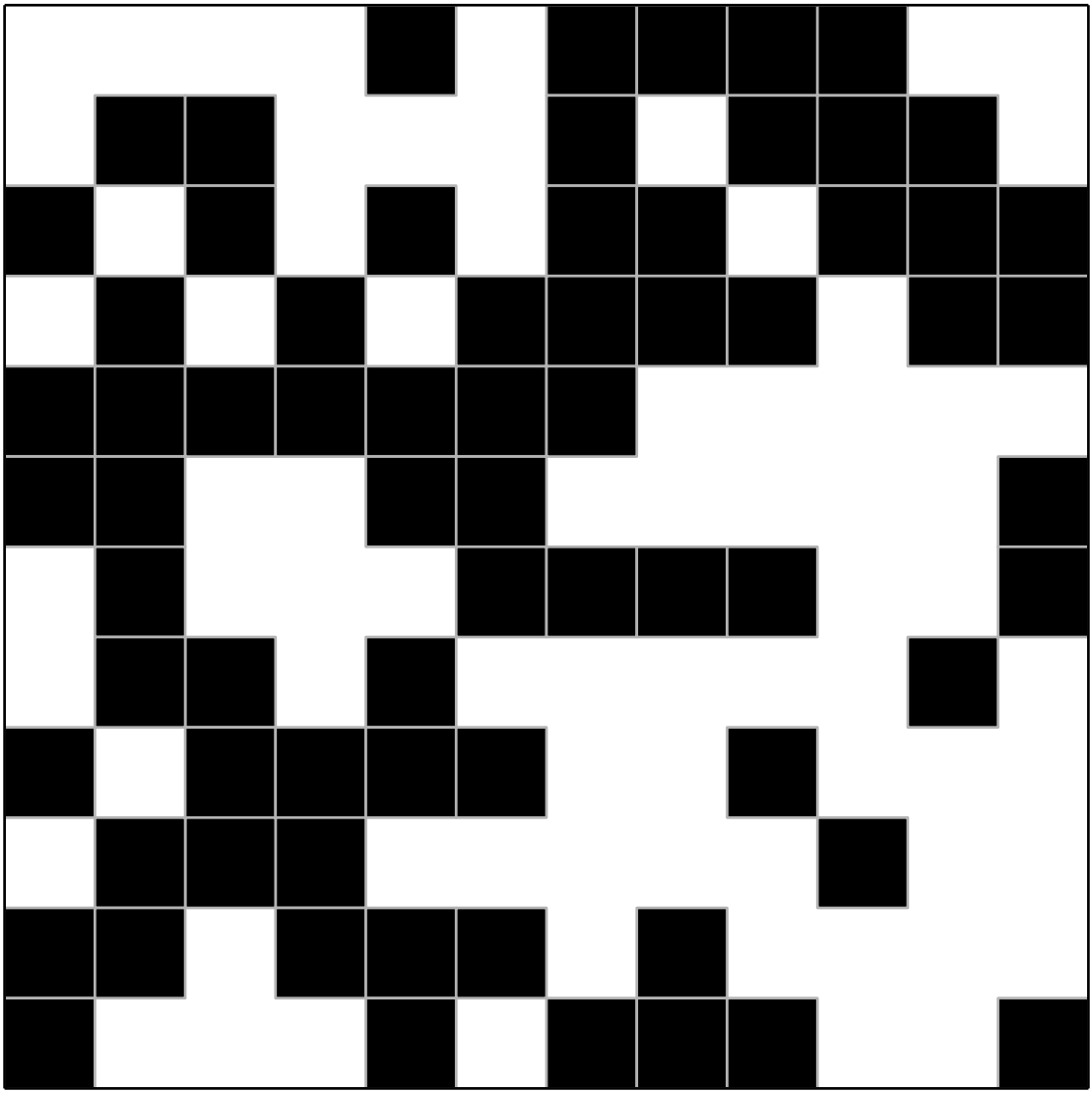

lib3_transistor-RE 24x24 (157) con: 12, var: 12


lib3_transistor-RE, cost: 9, diff: 9, explored: 48, time: 0.02s

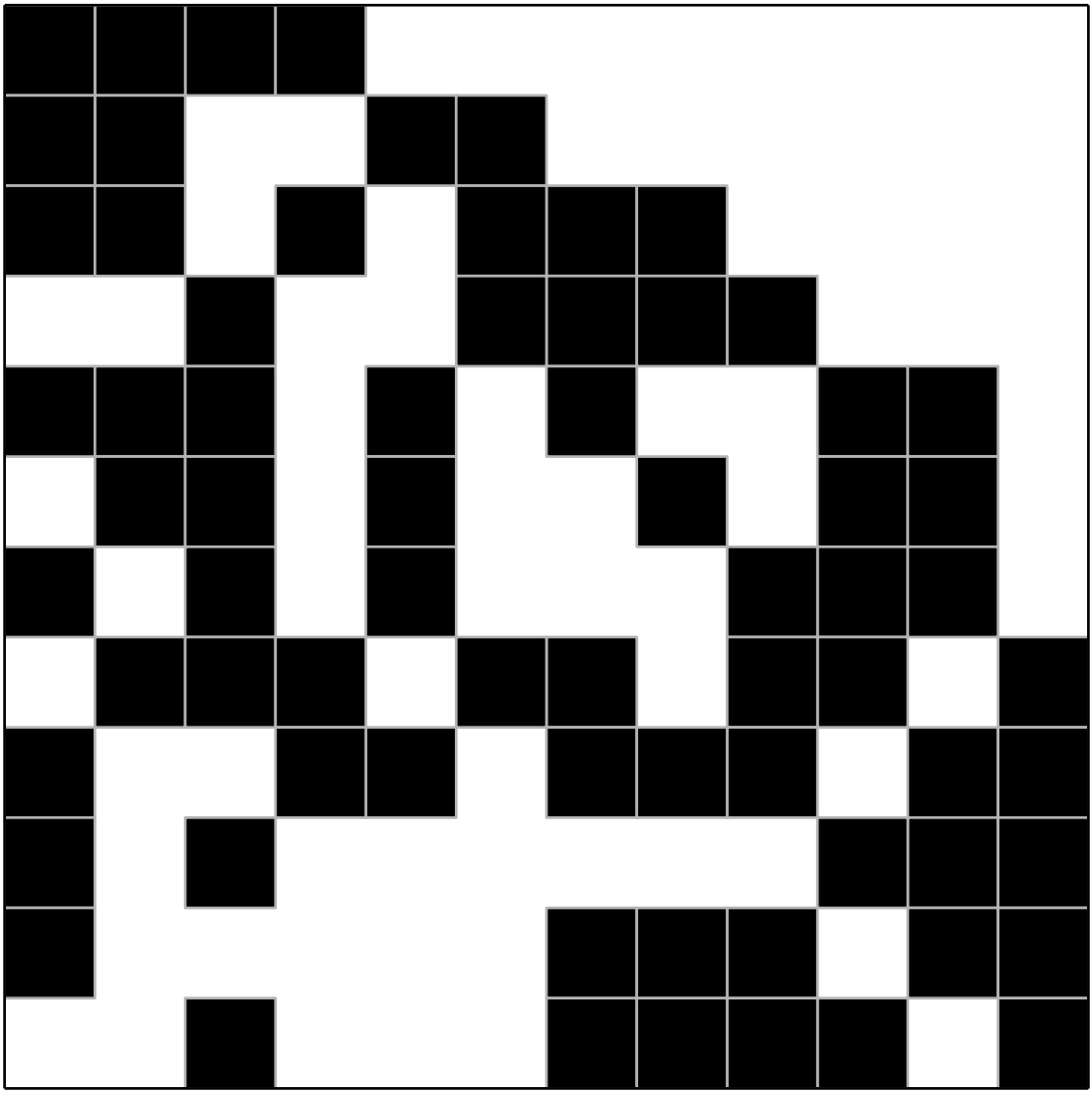
lib3_trinks-00 12x12 (71) con: 6, var: 6



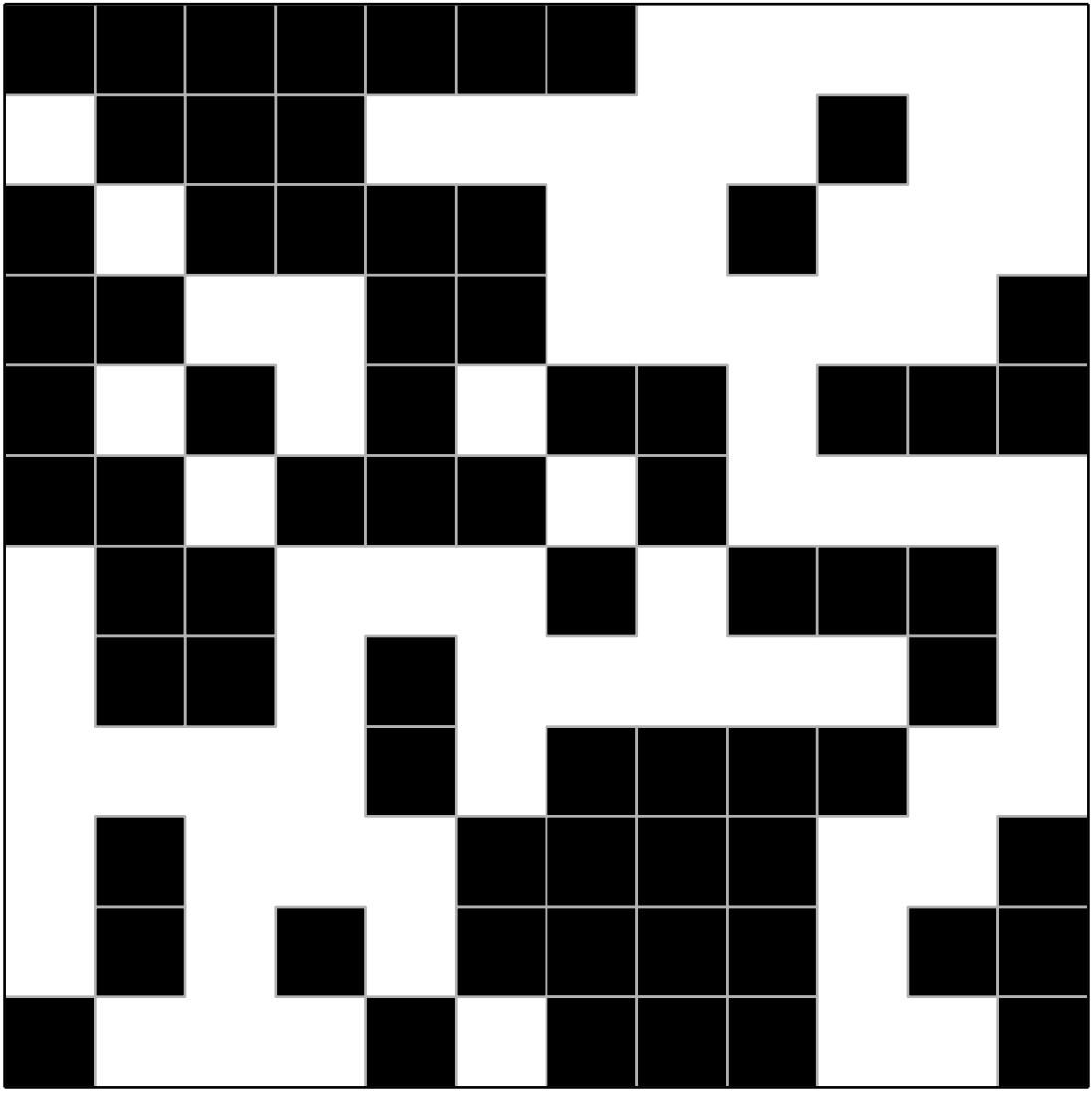

lib3_trinks-00, cost: 6, diff: 6, explored: 15, time: 0.00s

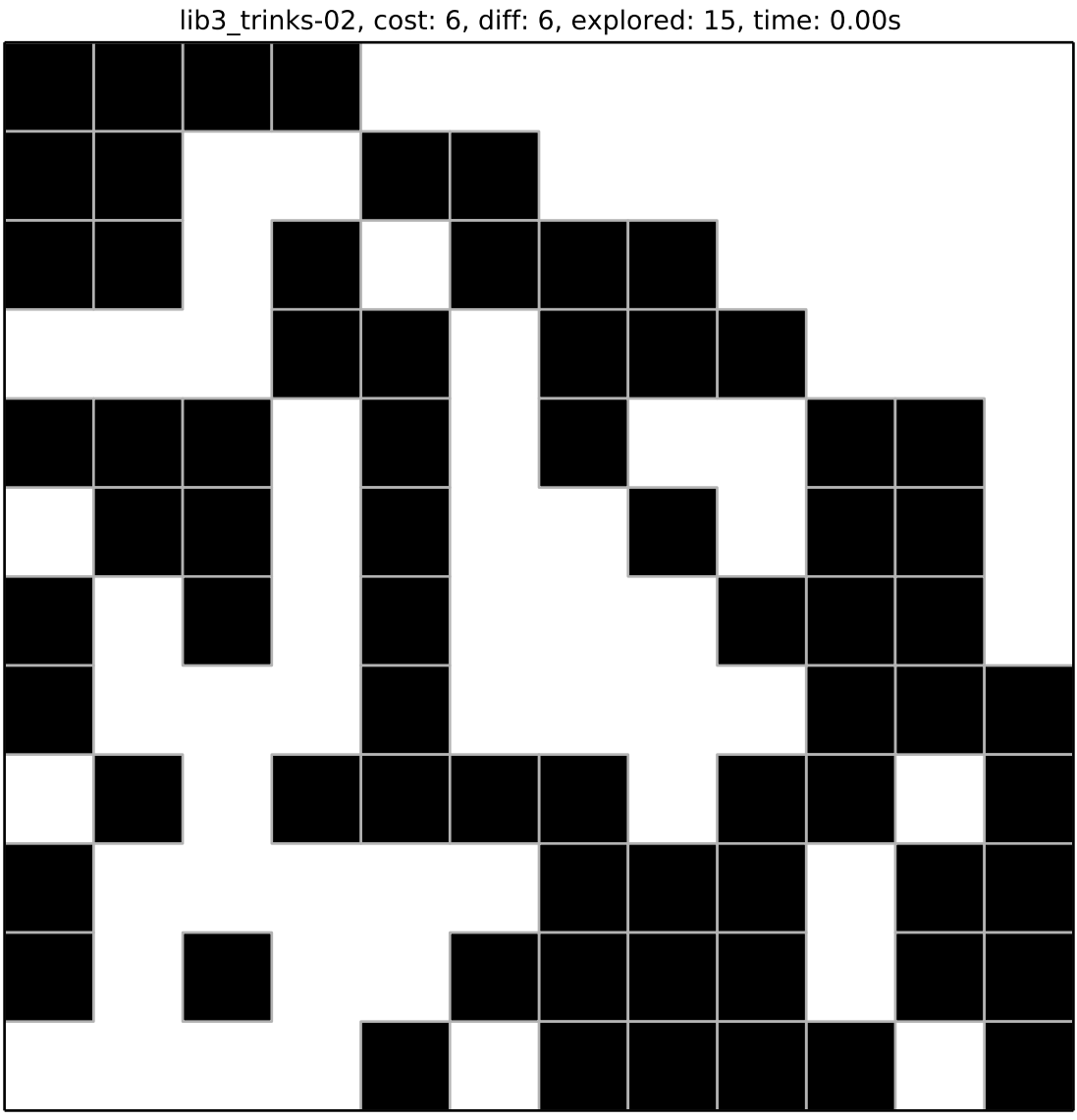

lib3_trinks-01 12x12 (71) con: 6, var: 6

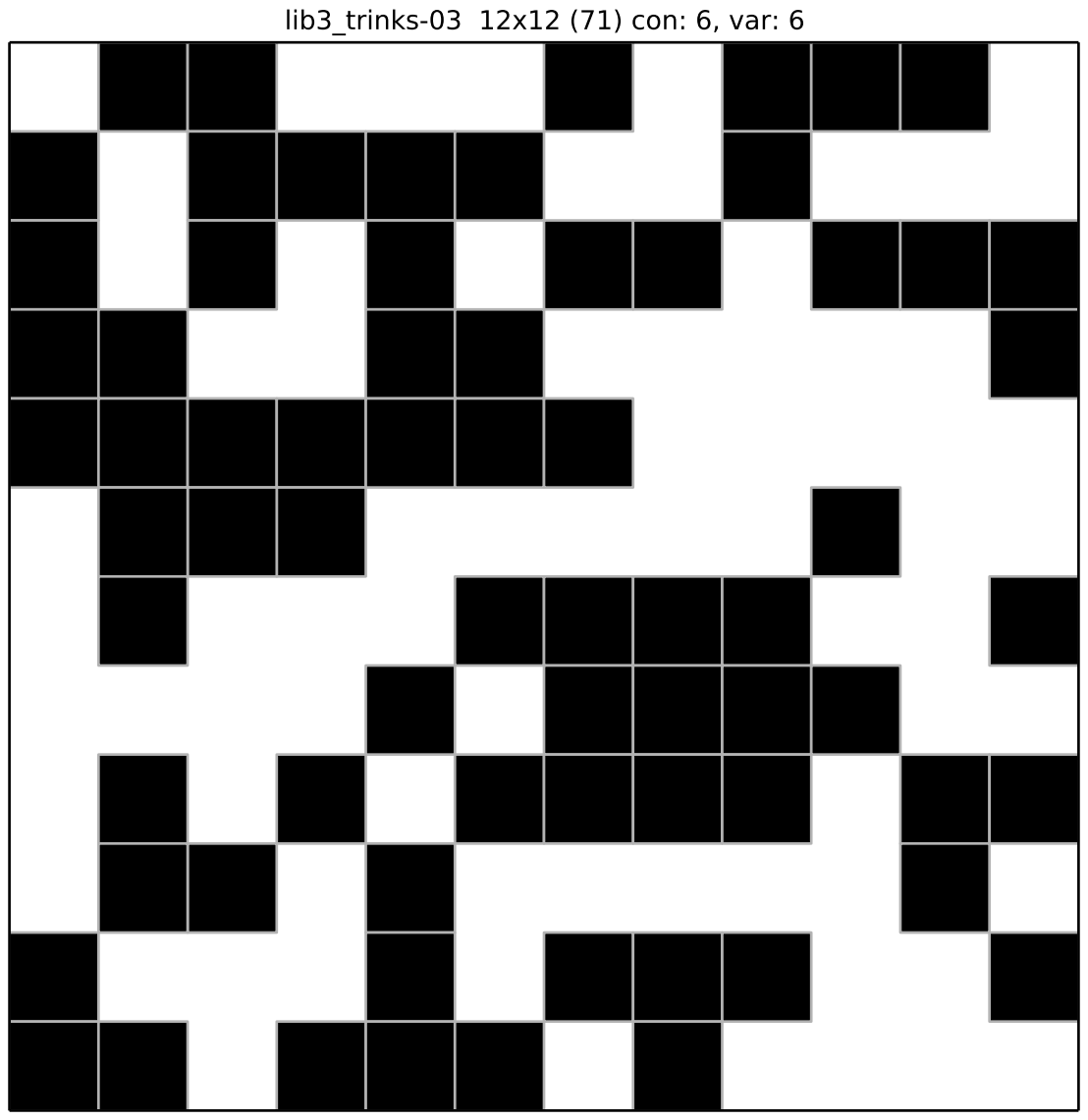
lib3_trinks-01, cost: 6, diff: 6, explored: 15, time: 0.00s



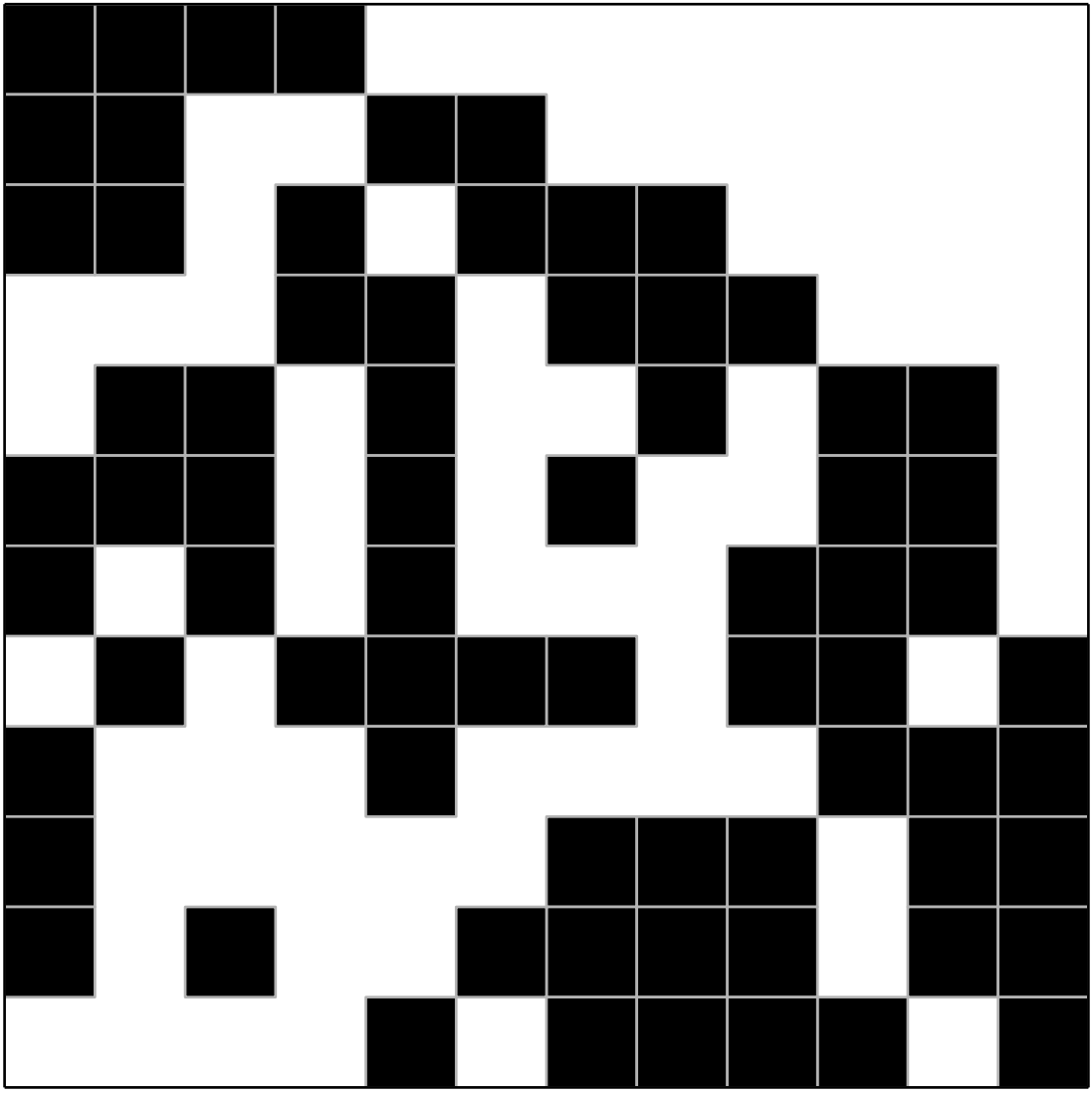
lib3_trinks-02 12x12 (71) con: 6, var: 6



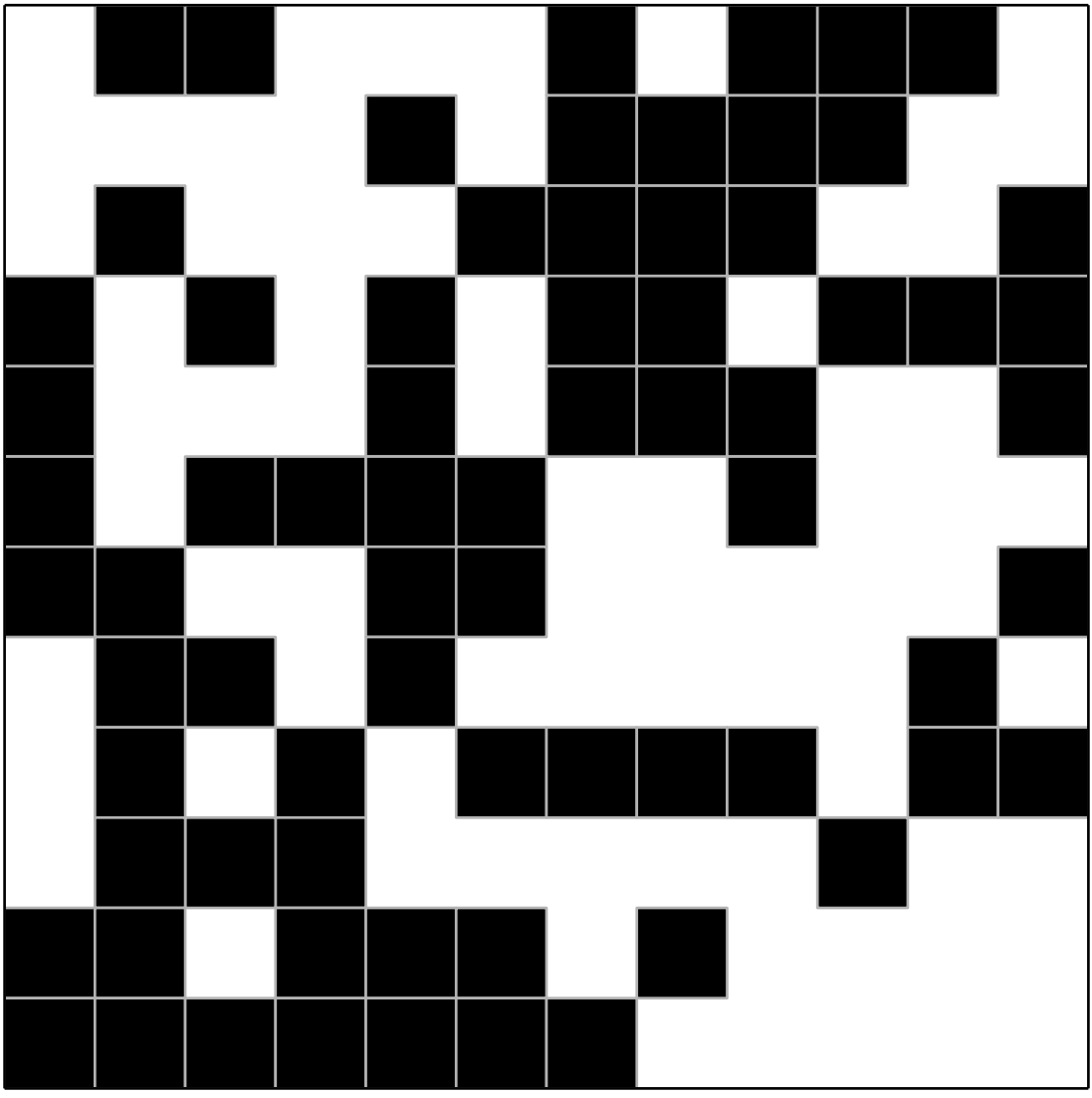

lib3_trinks-02, cost: 6, diff: 6, explored: 15, time: 0.00s


lib3_trinks-03 12x12 (71) con: 6, var: 6

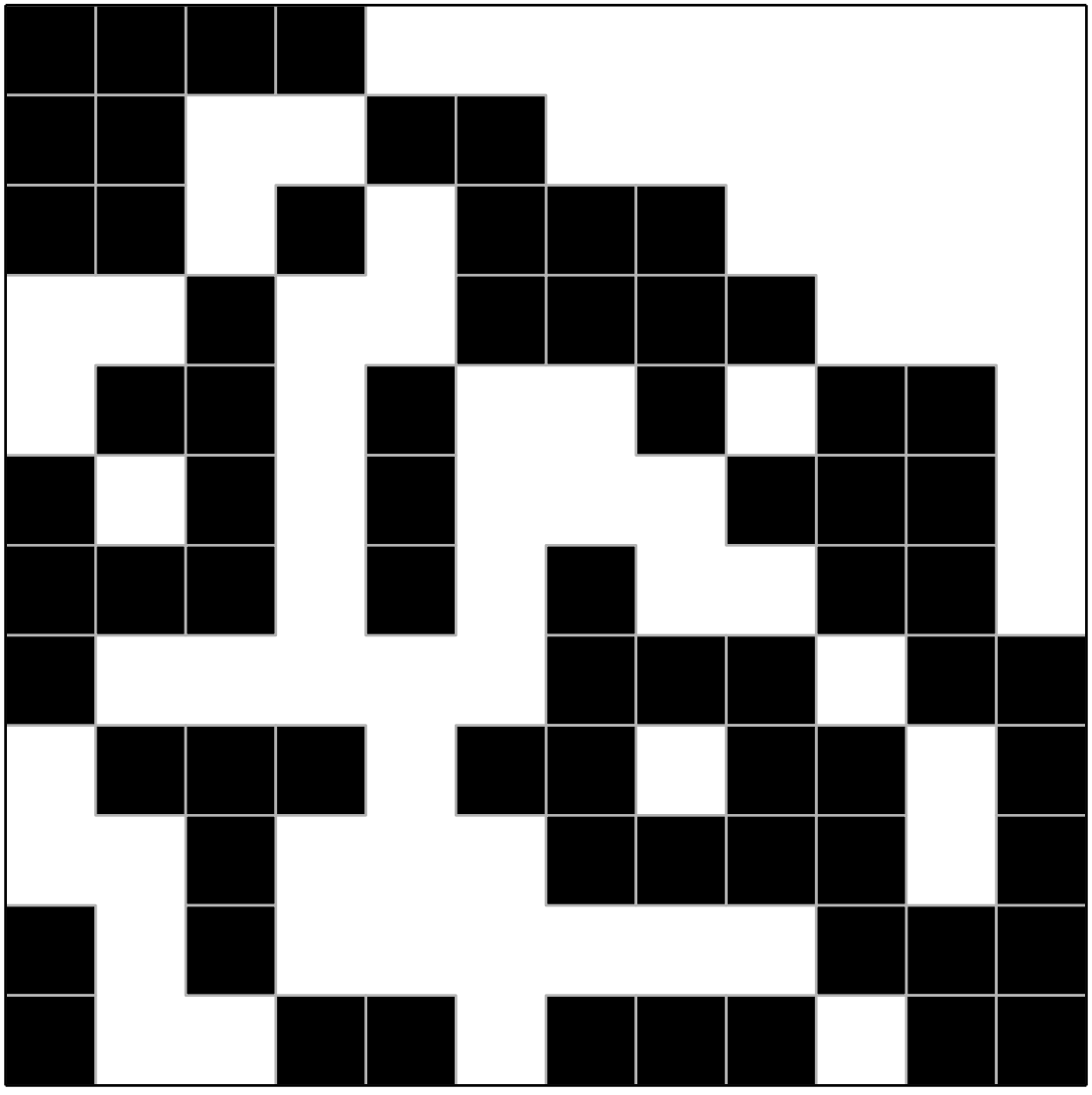
lib3_trinks-03, cost: 6, diff: 6, explored: 15, time: 0.00s



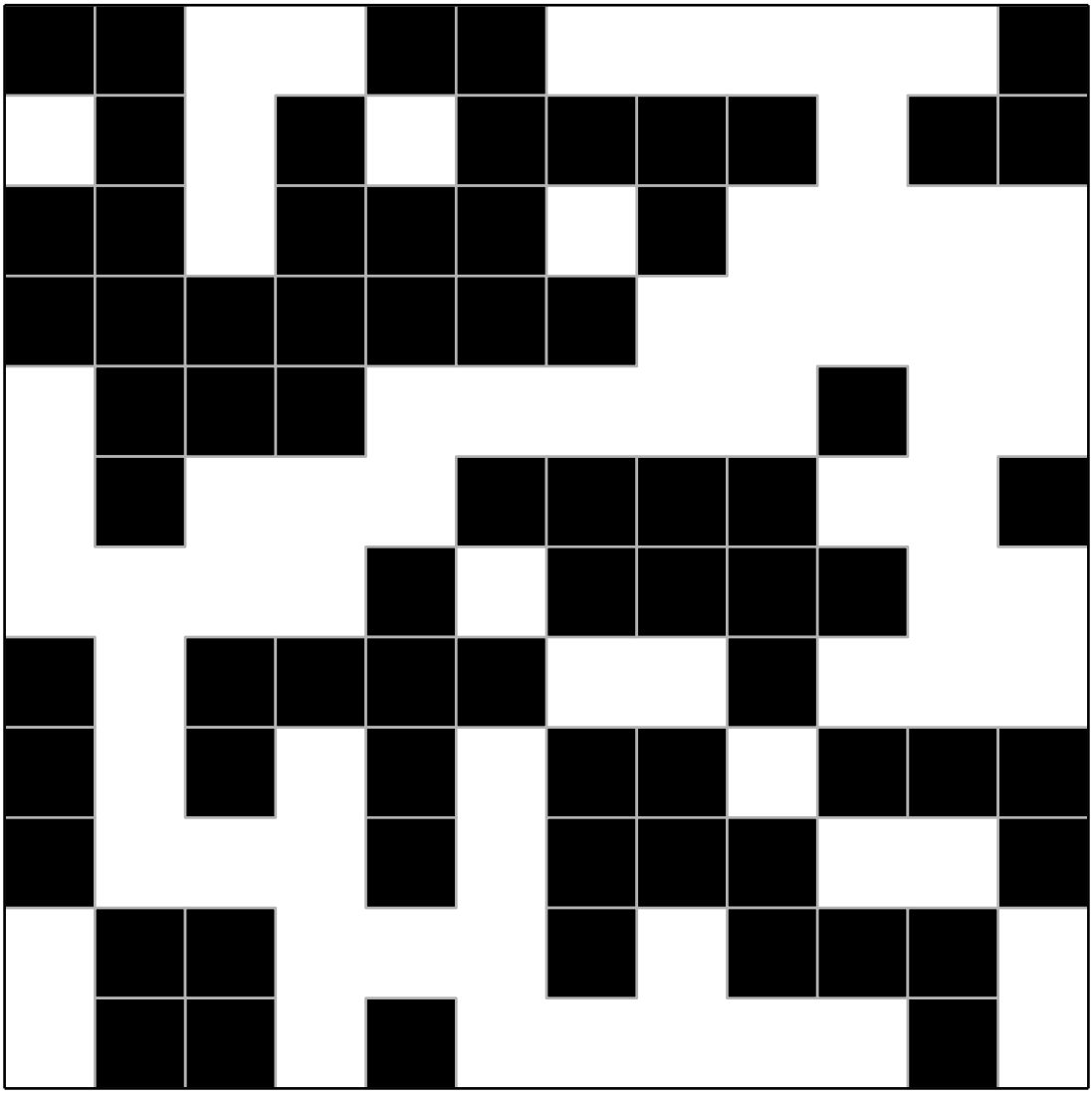
lib3_trinks-04 12x12 (71) con: 6, var: 6

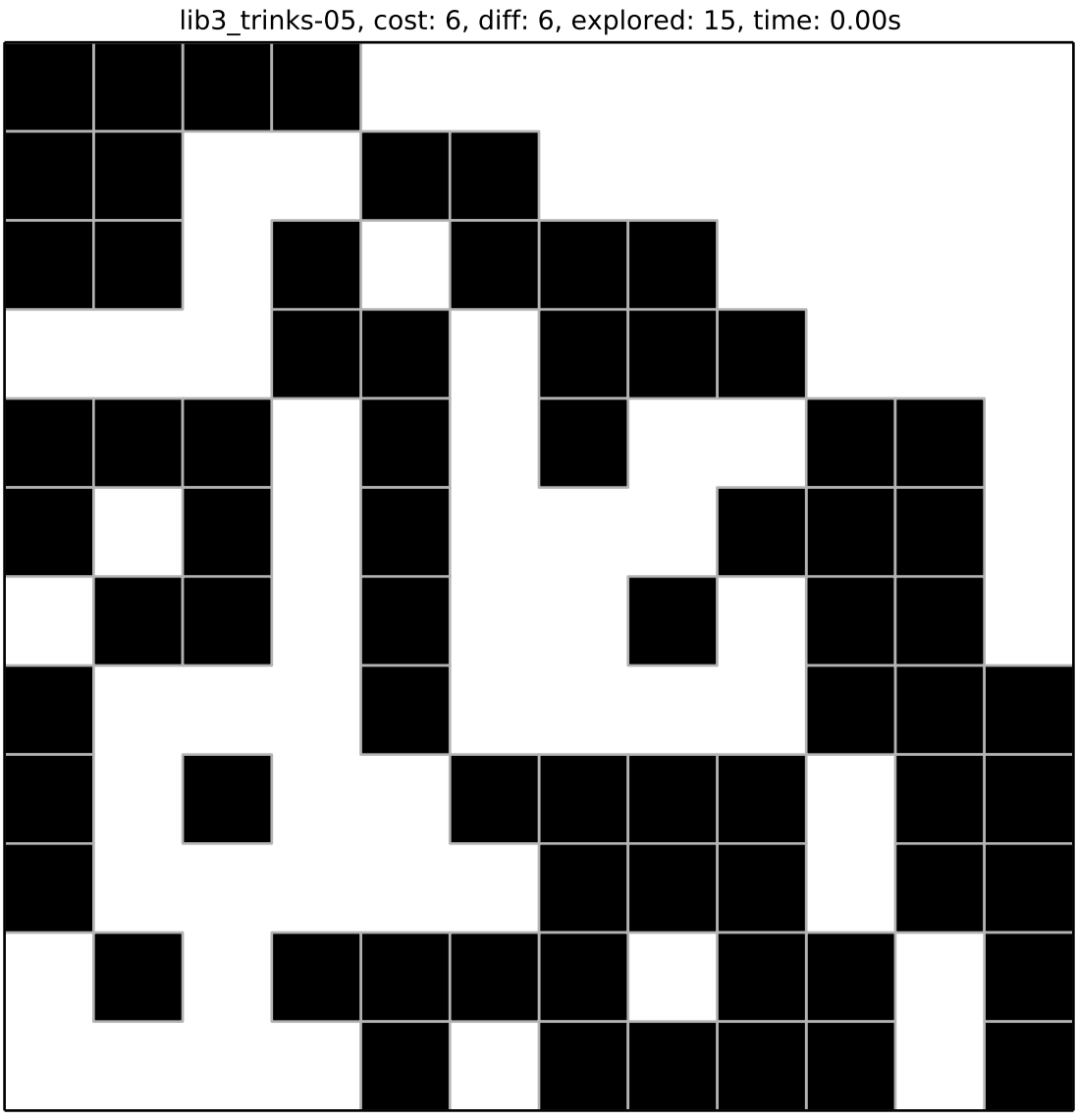


lib3_trinks-04, cost: 6, diff: 6, explored: 15, time: 0.00s

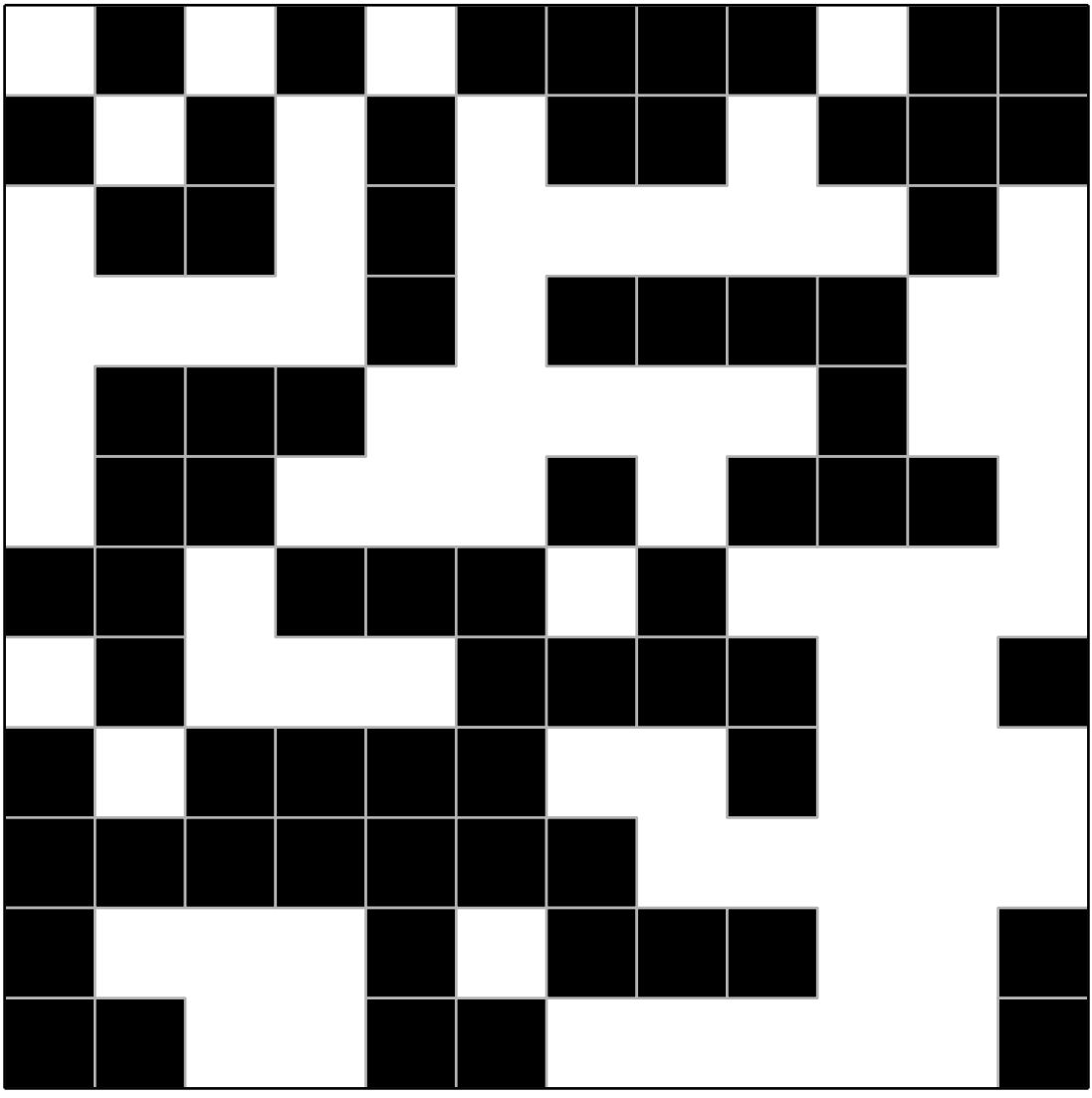


lib3_trinks-05 12x12 (71) con: 6, var: 6

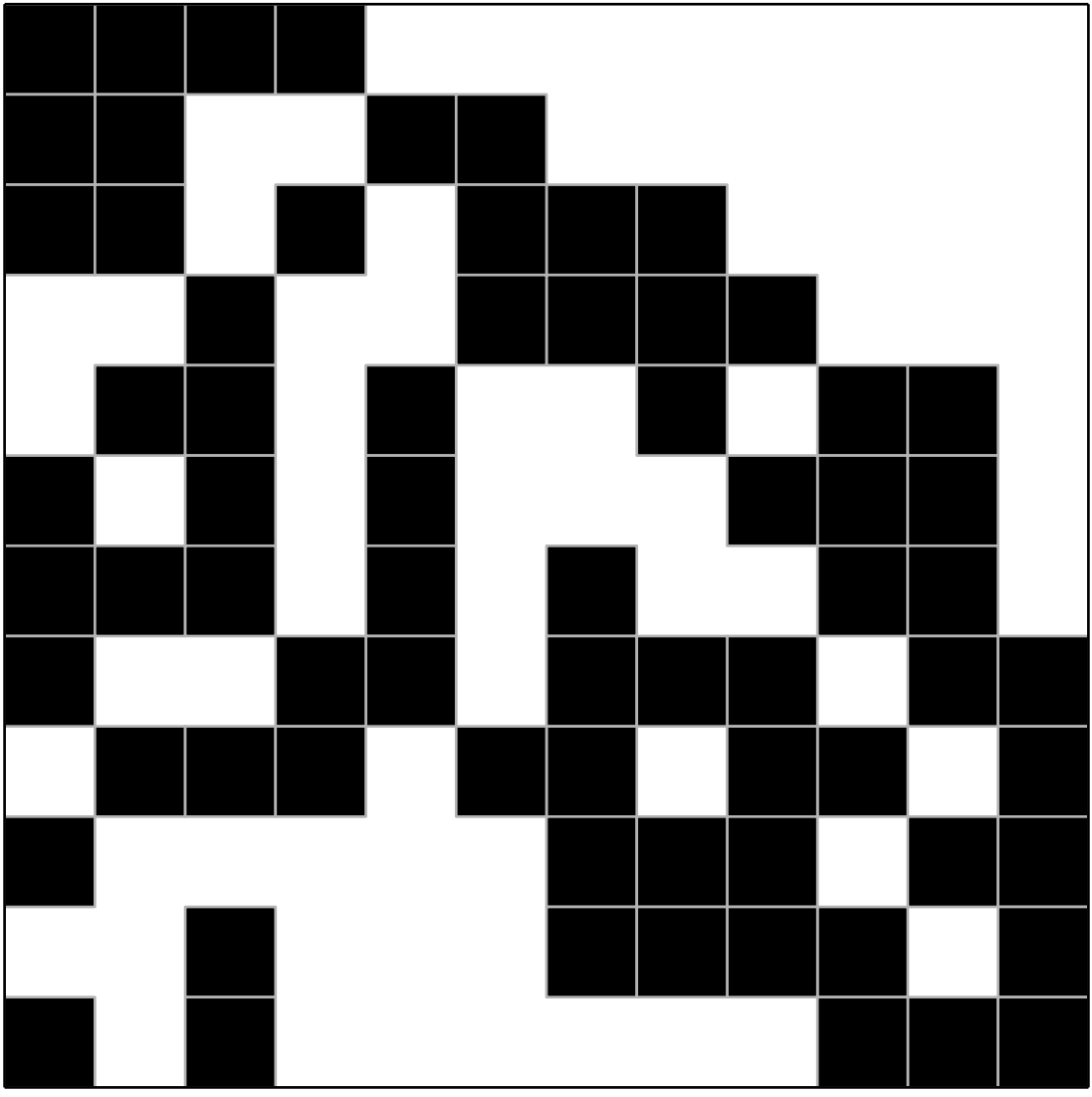



lib3_trinks-05, cost: 6, diff: 6, explored: 15, time: 0.00s

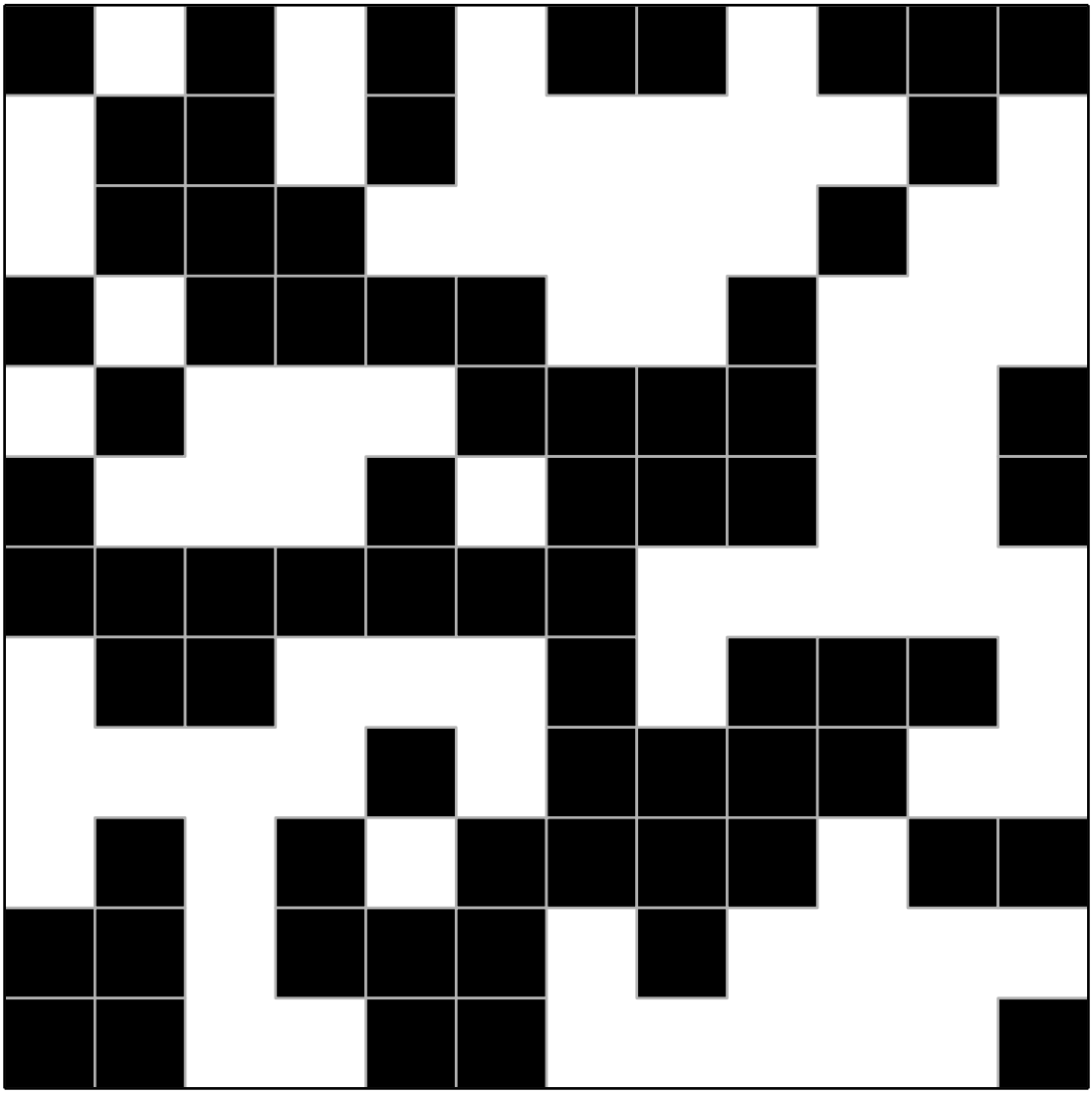
lib3_trinks-06 12x12 (71) con: 6, var: 6



lib3_trinks-06, cost: 6, diff: 6, explored: 15, time: 0.00s



lib3_trinks-07 12x12 (71) con: 6, var: 6



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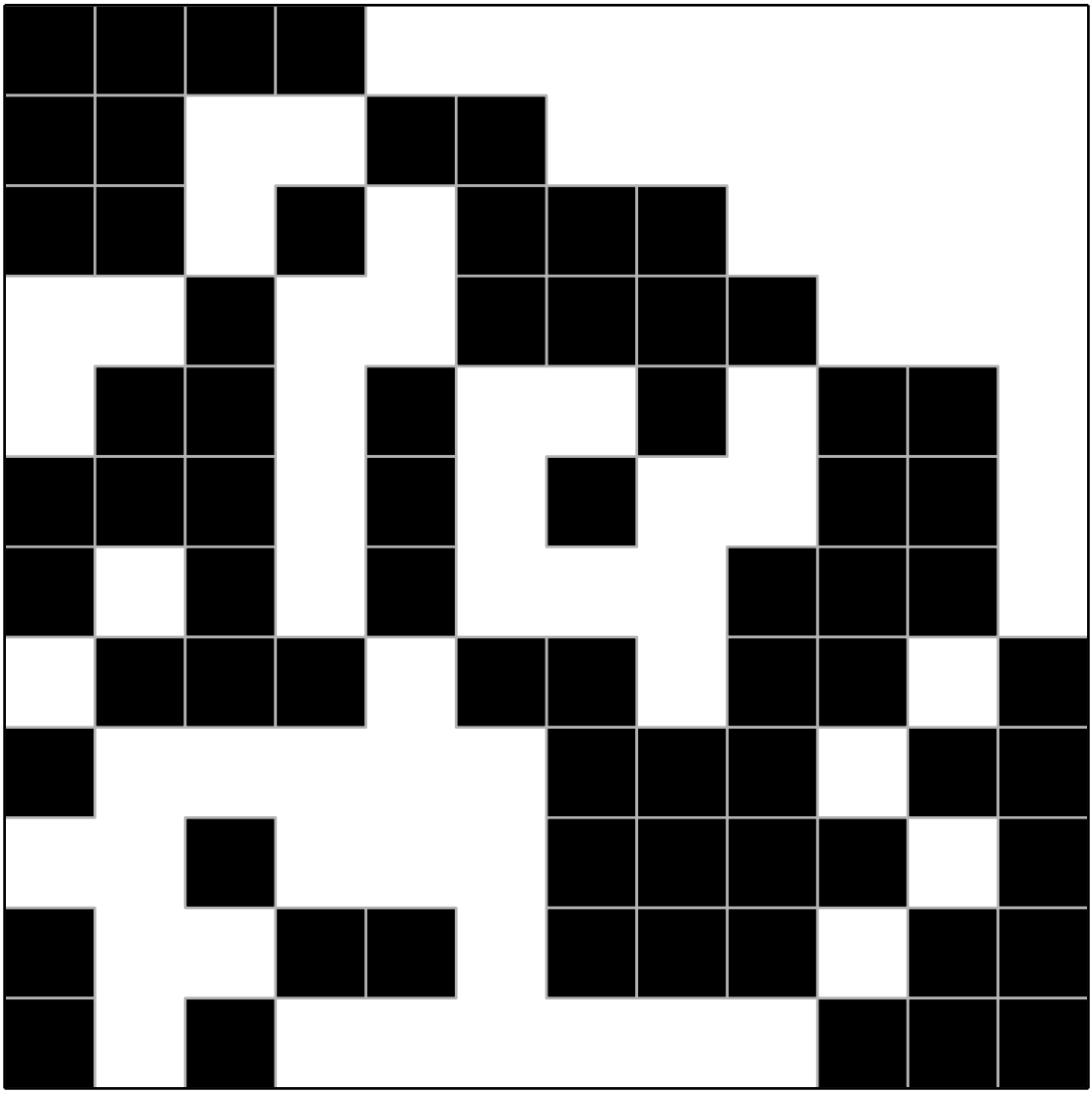
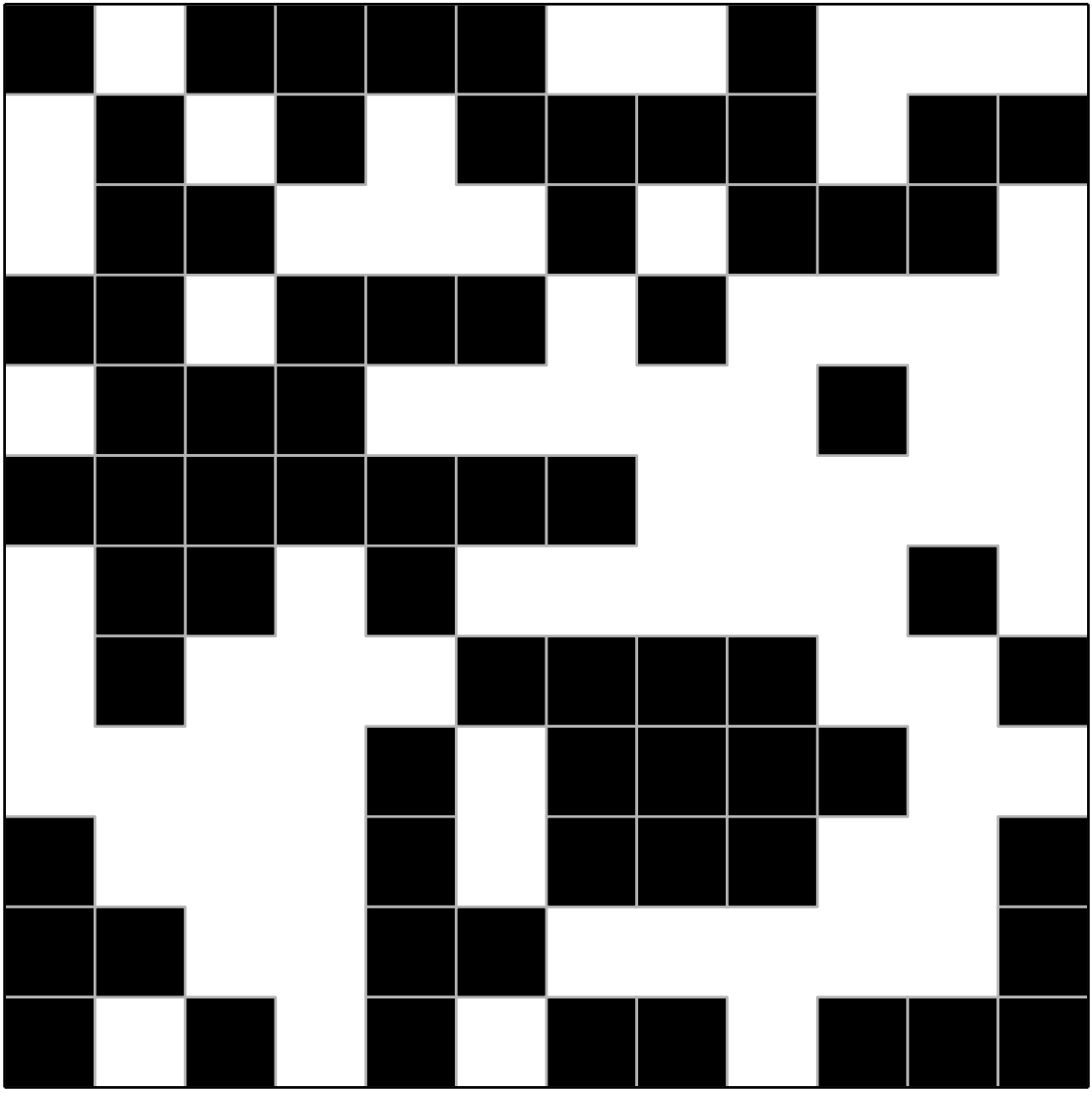
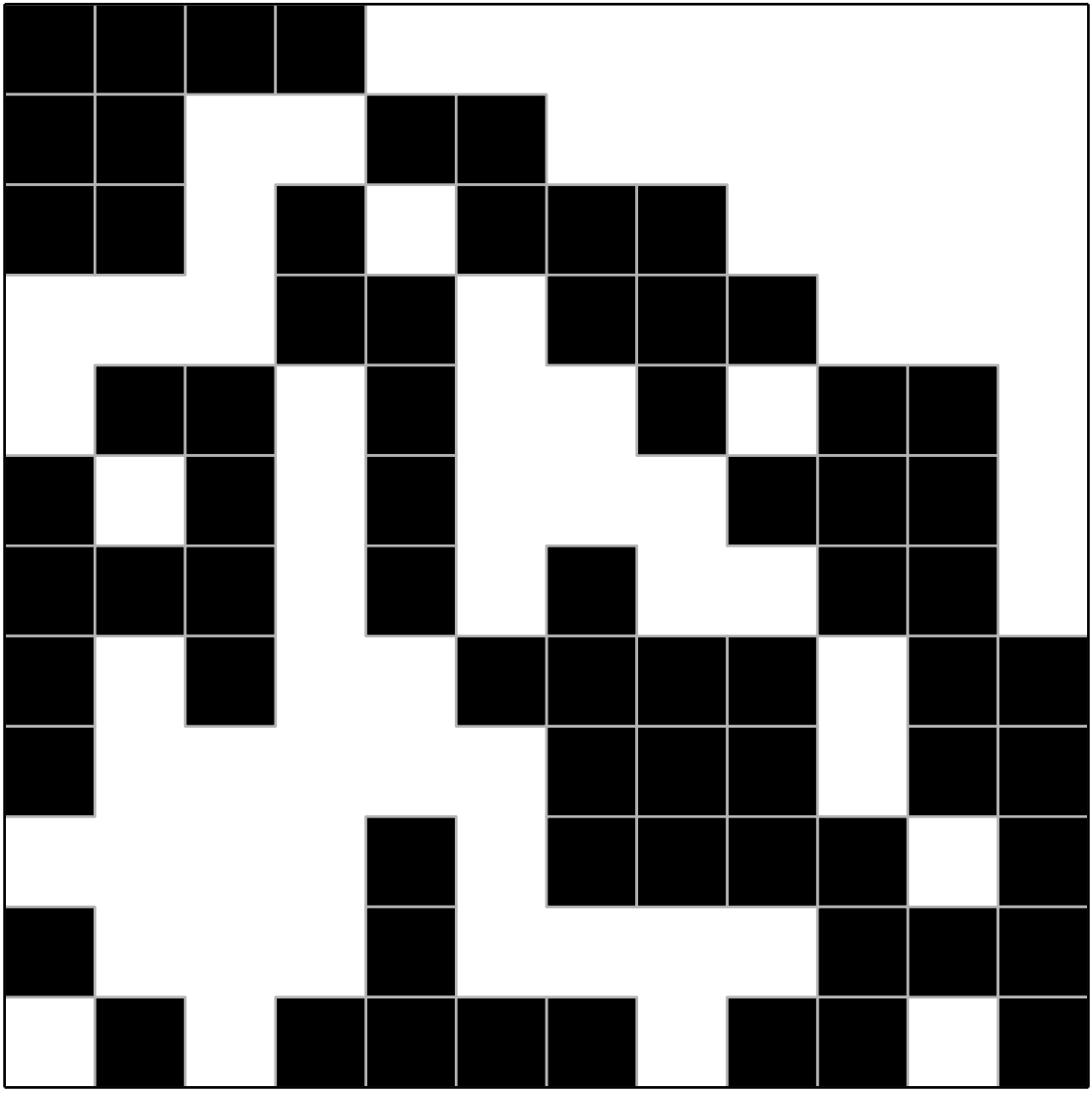
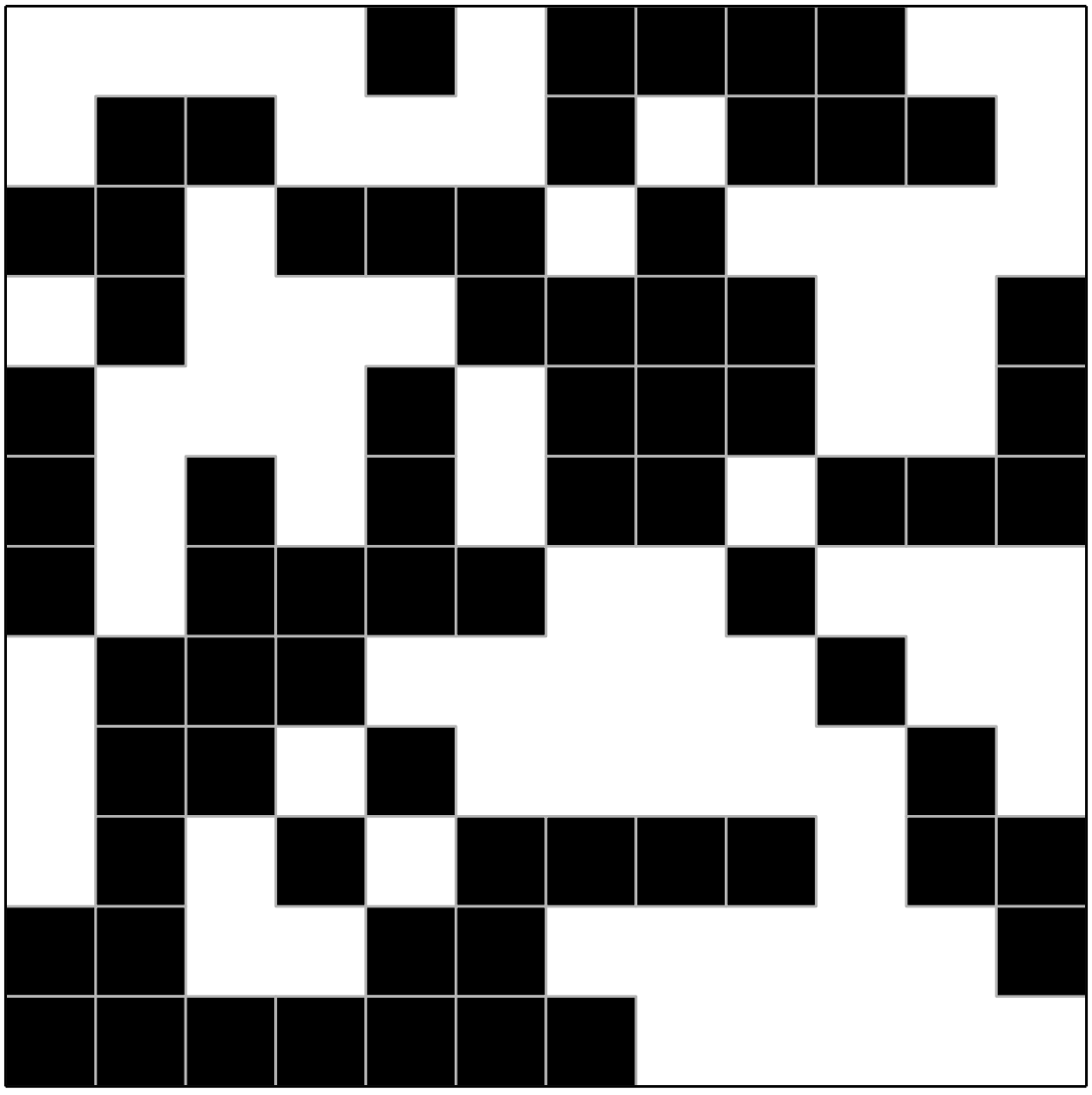


lib3_trinks-08 12x12 (71) con: 6, var: 6

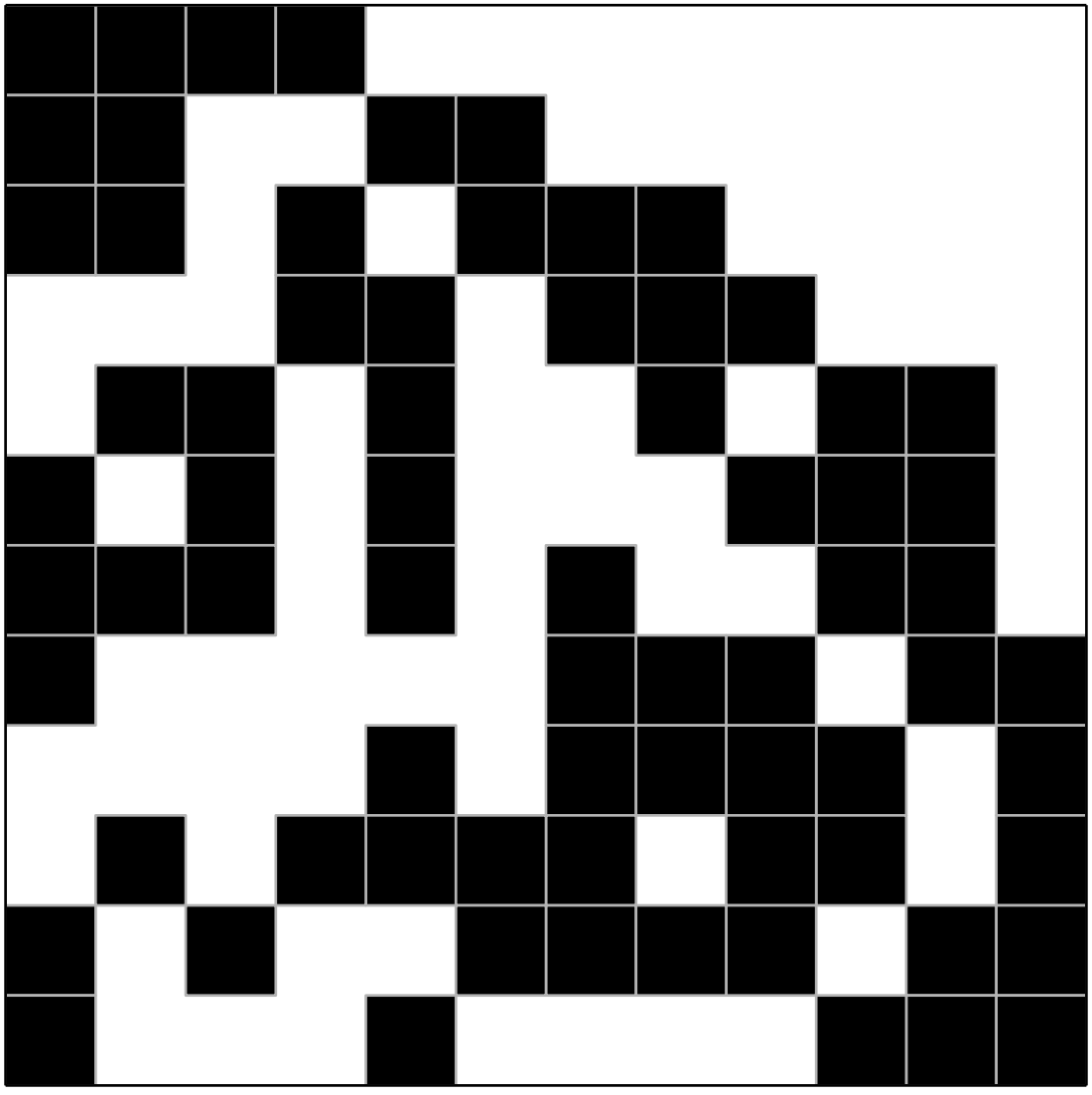


lib3_trinks-08, cost: 6, diff: 6, explored: 15, time: 0.00s

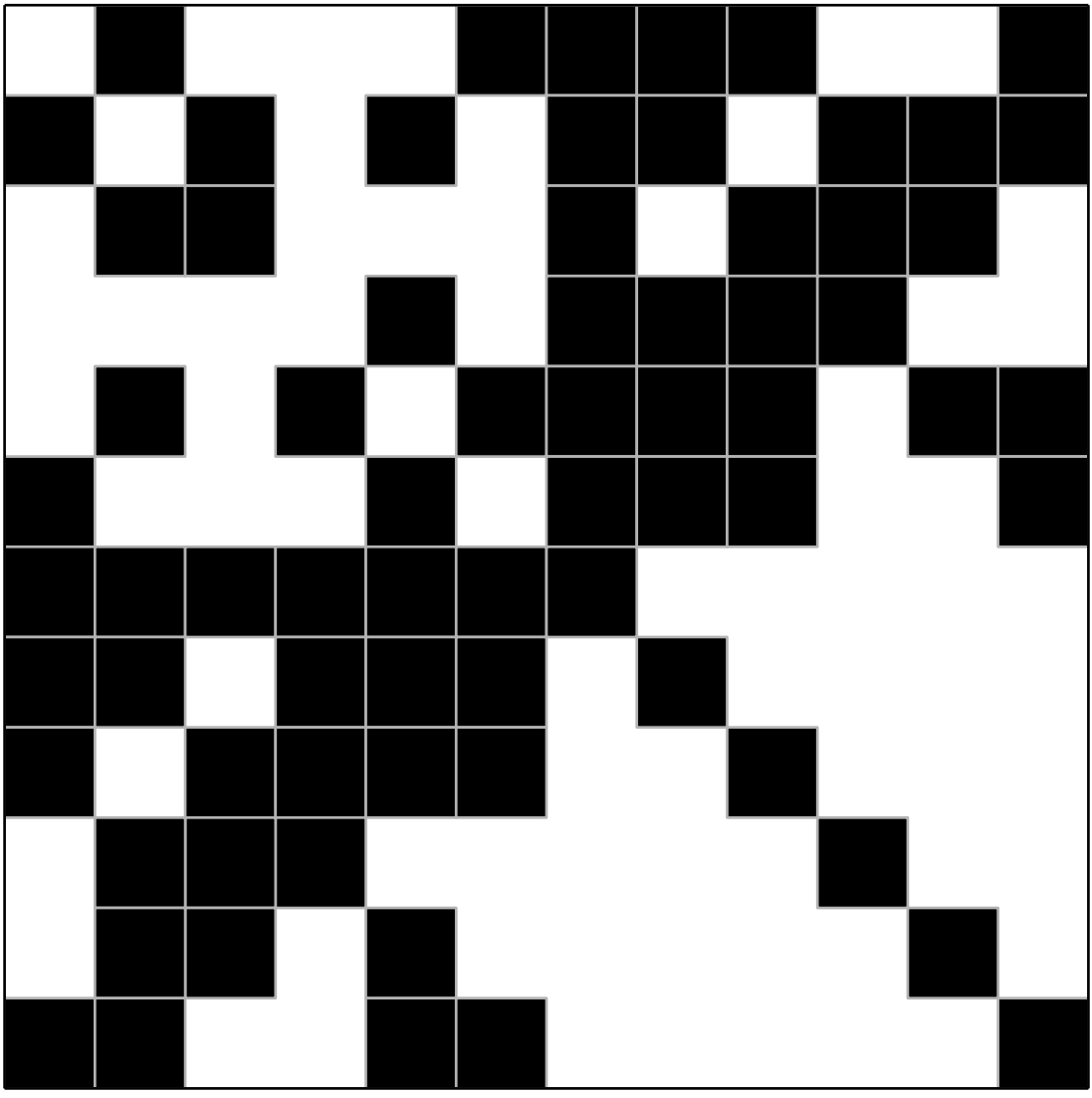



lib3_trinks-09 12x12 (71) con: 6, var: 6

lib3_trinks-09, cost: 6, diff: 6, explored: 15, time: 0.00s



lib3_trinks-IN 12x12 (71) con: 6, var: 6



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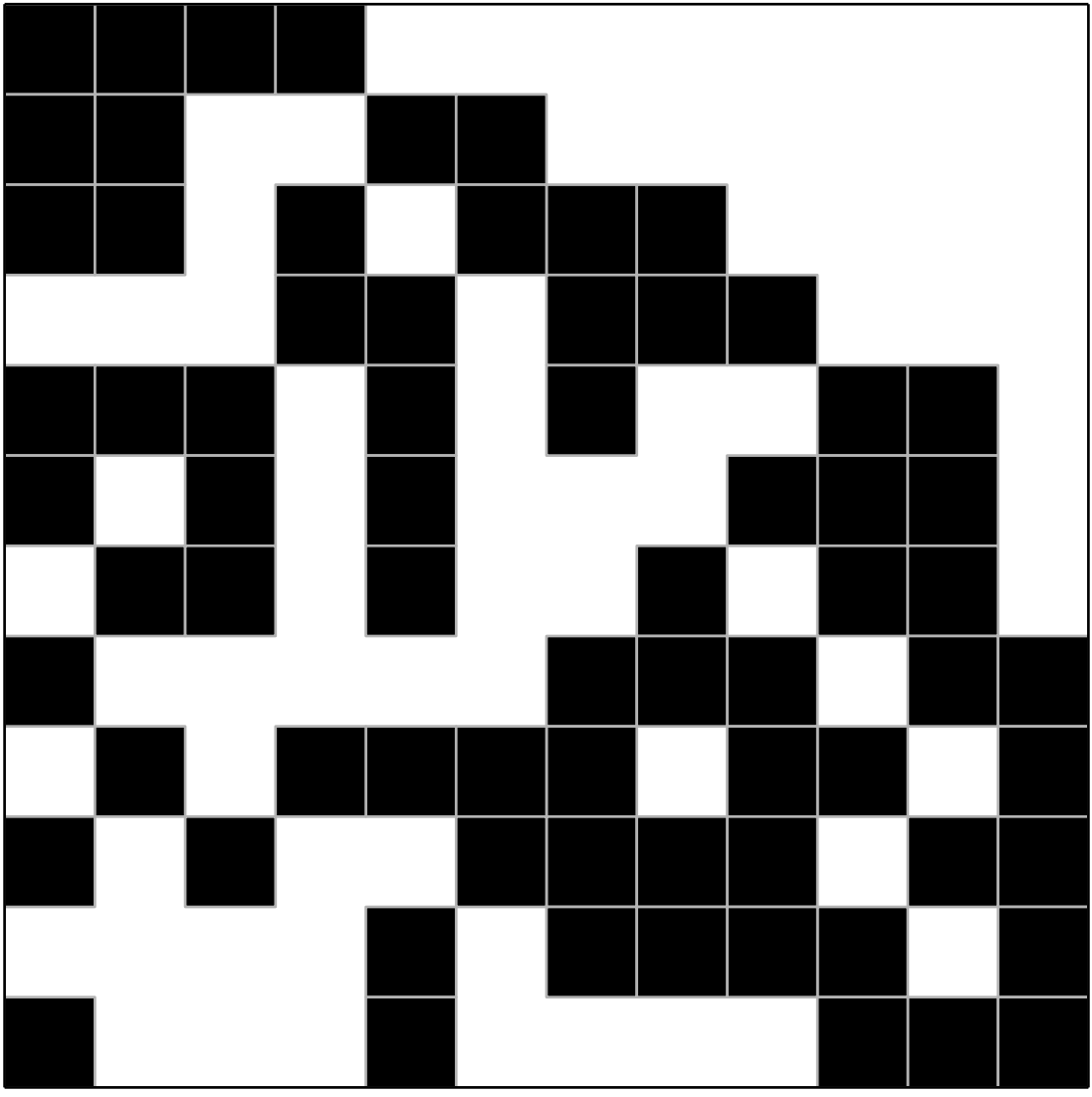

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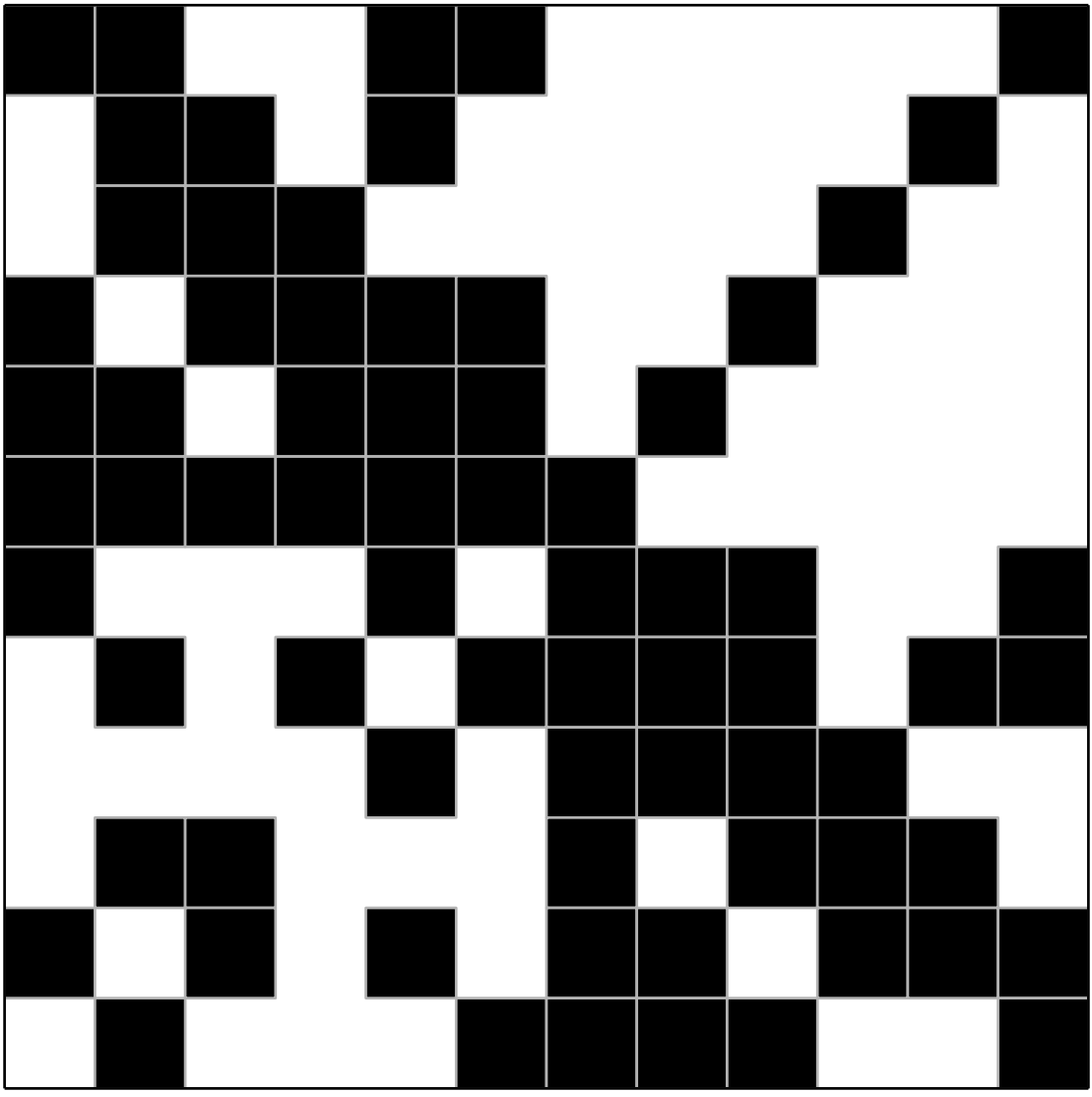

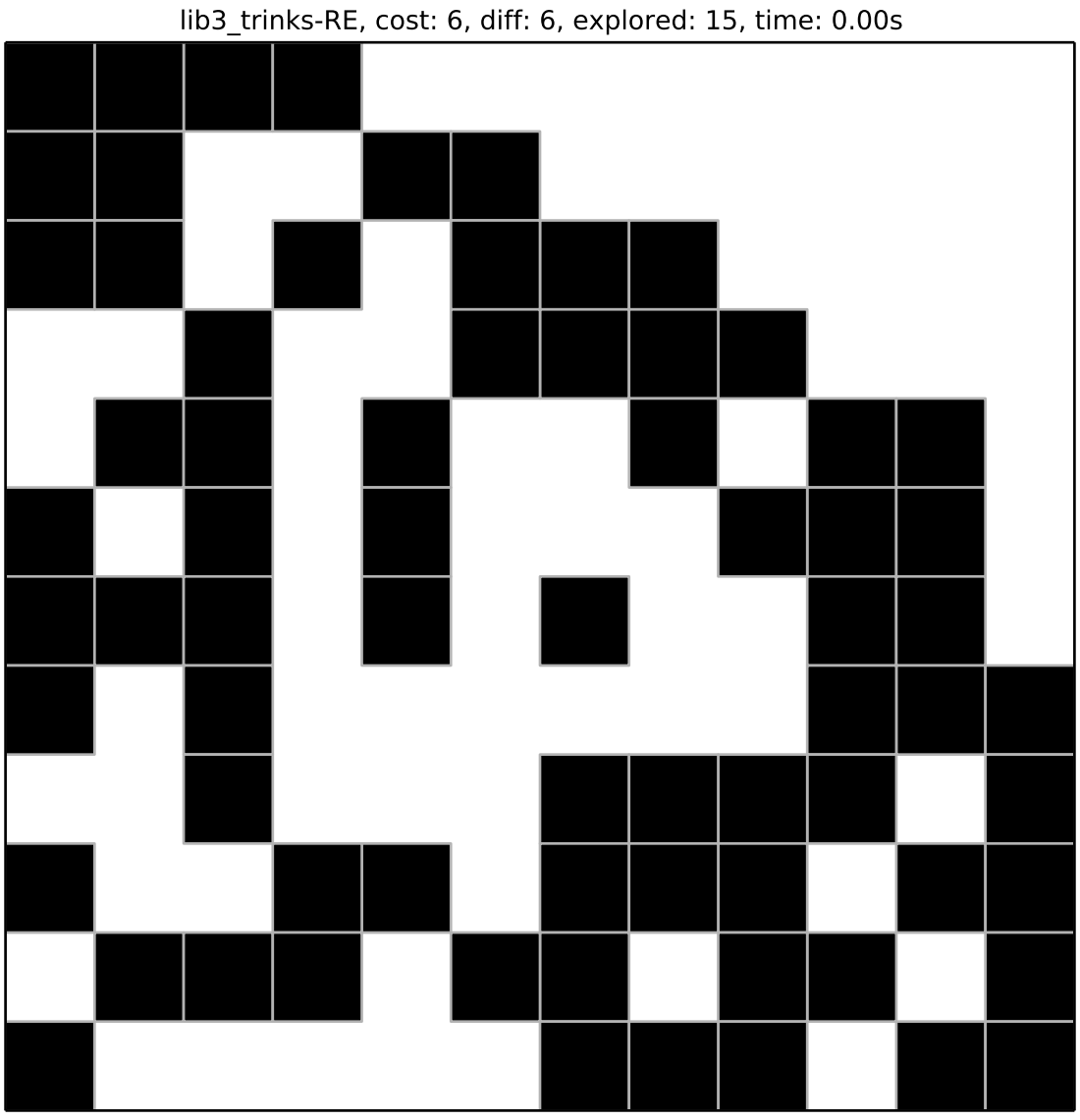
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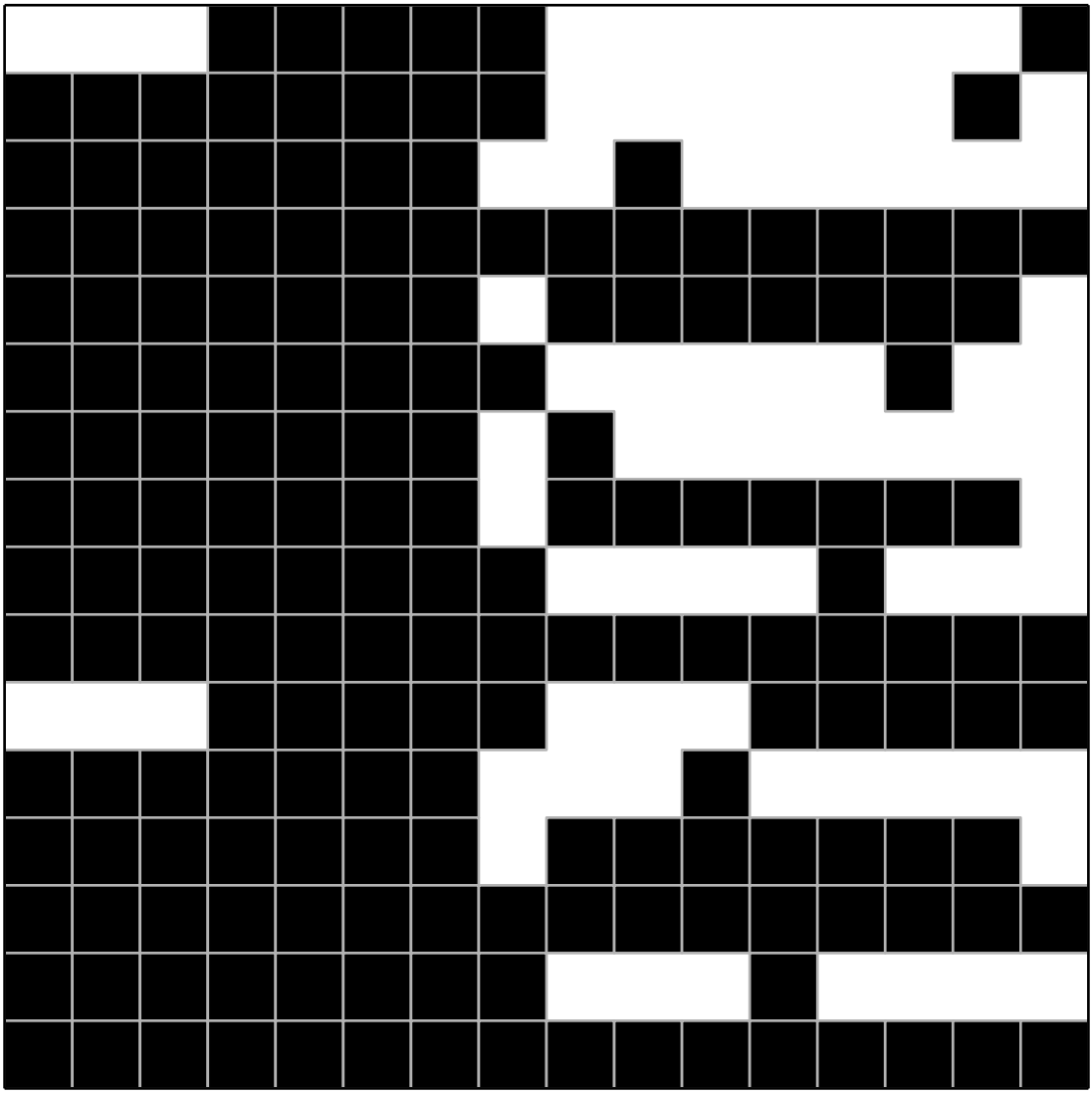
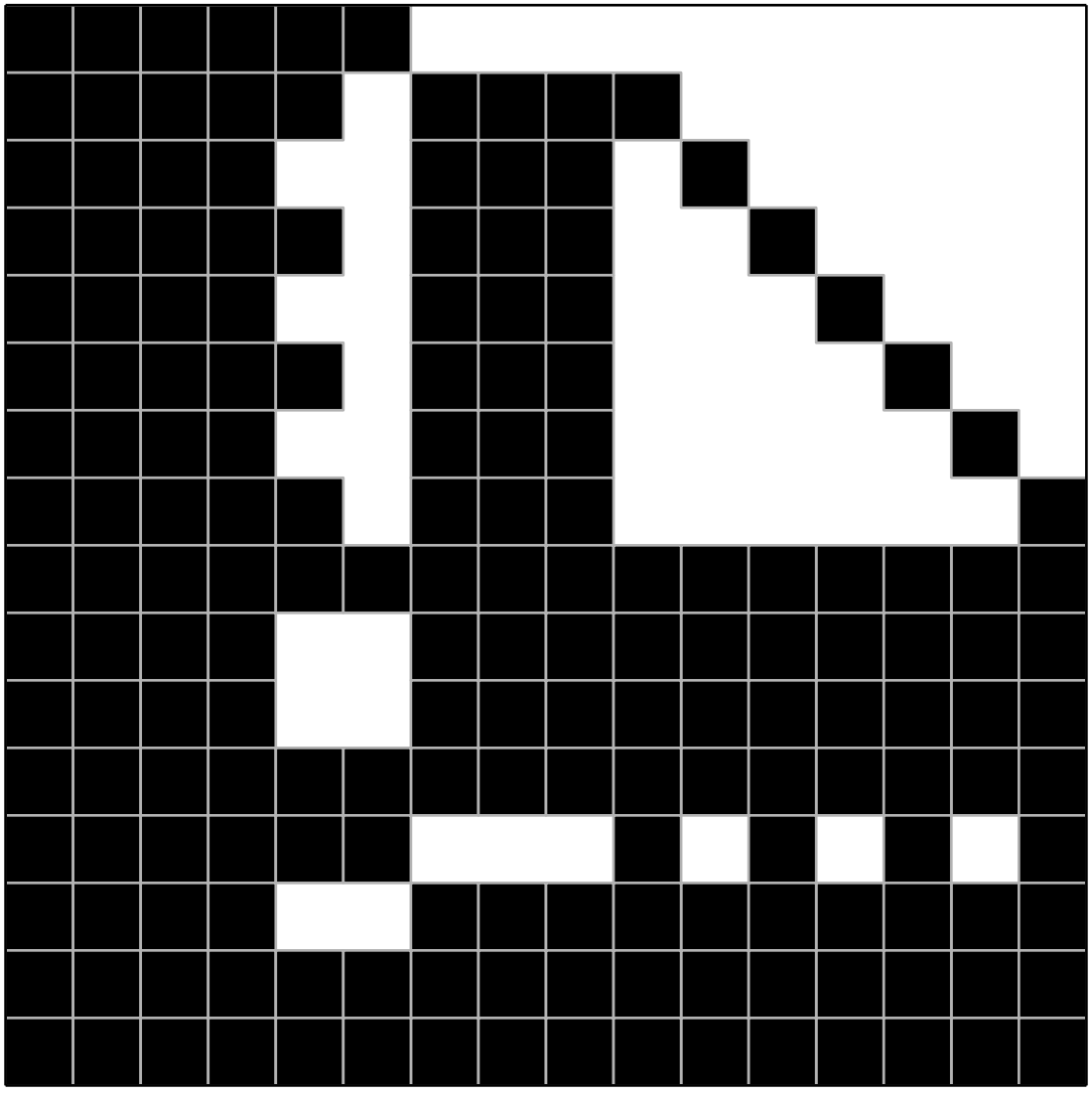
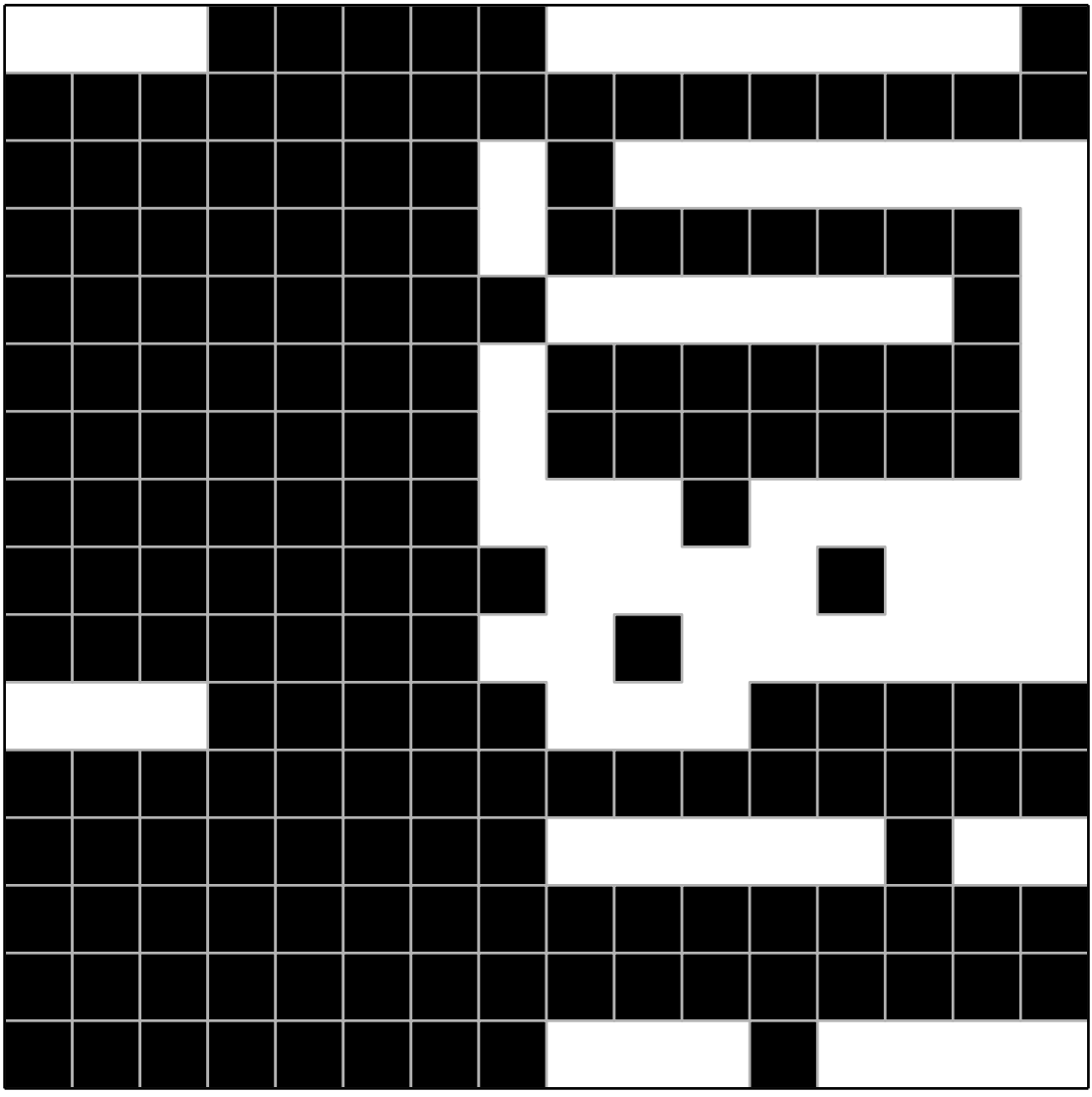
lib3_virasoro-00 16x16 (182) con: 8, var: 8



lib3_virasoro-00, cost: 8, diff: 8, explored: 3, time: 0.00s



lib3_virasoro-01 16x16 (182) con: 8, var: 8



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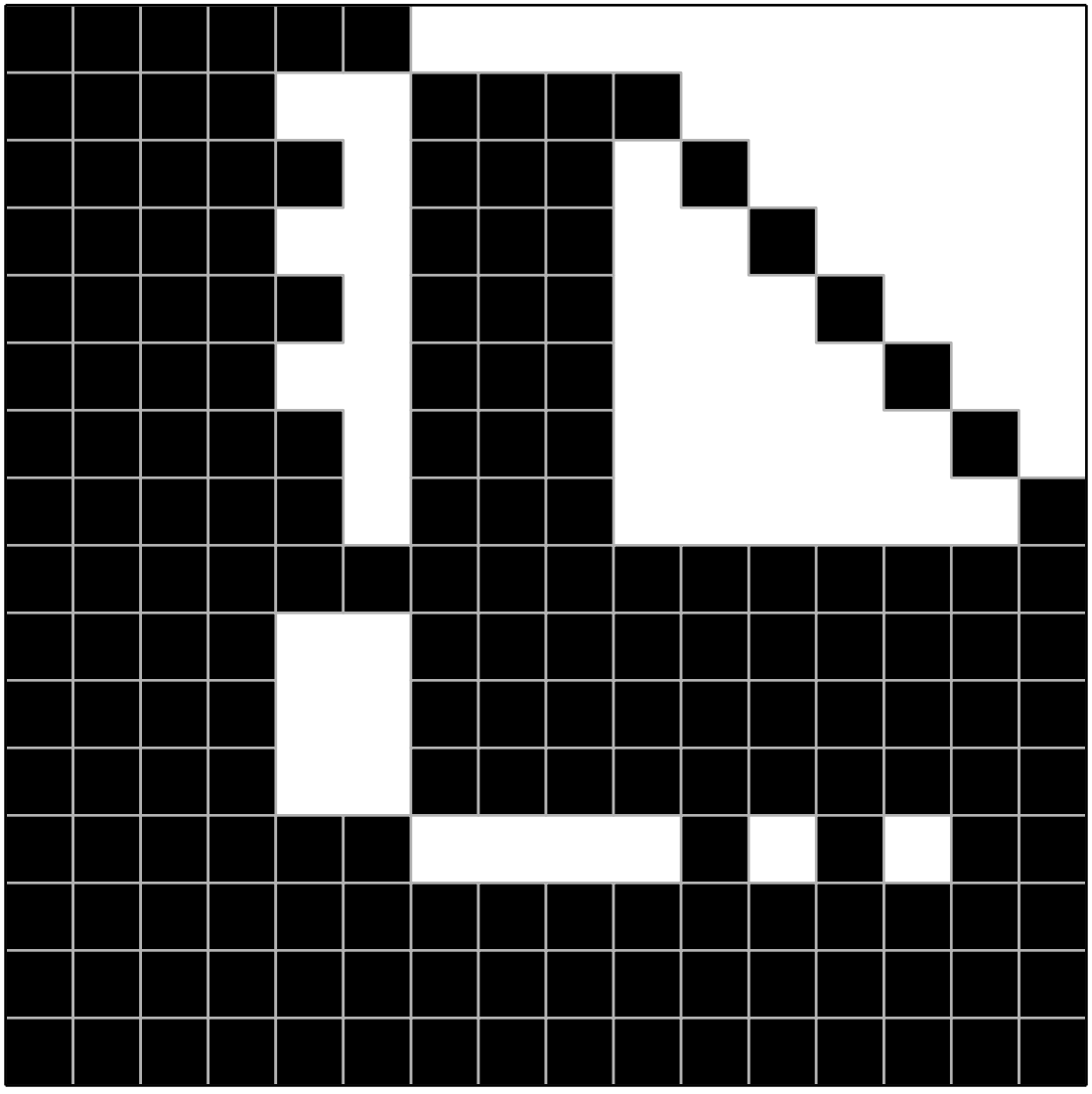
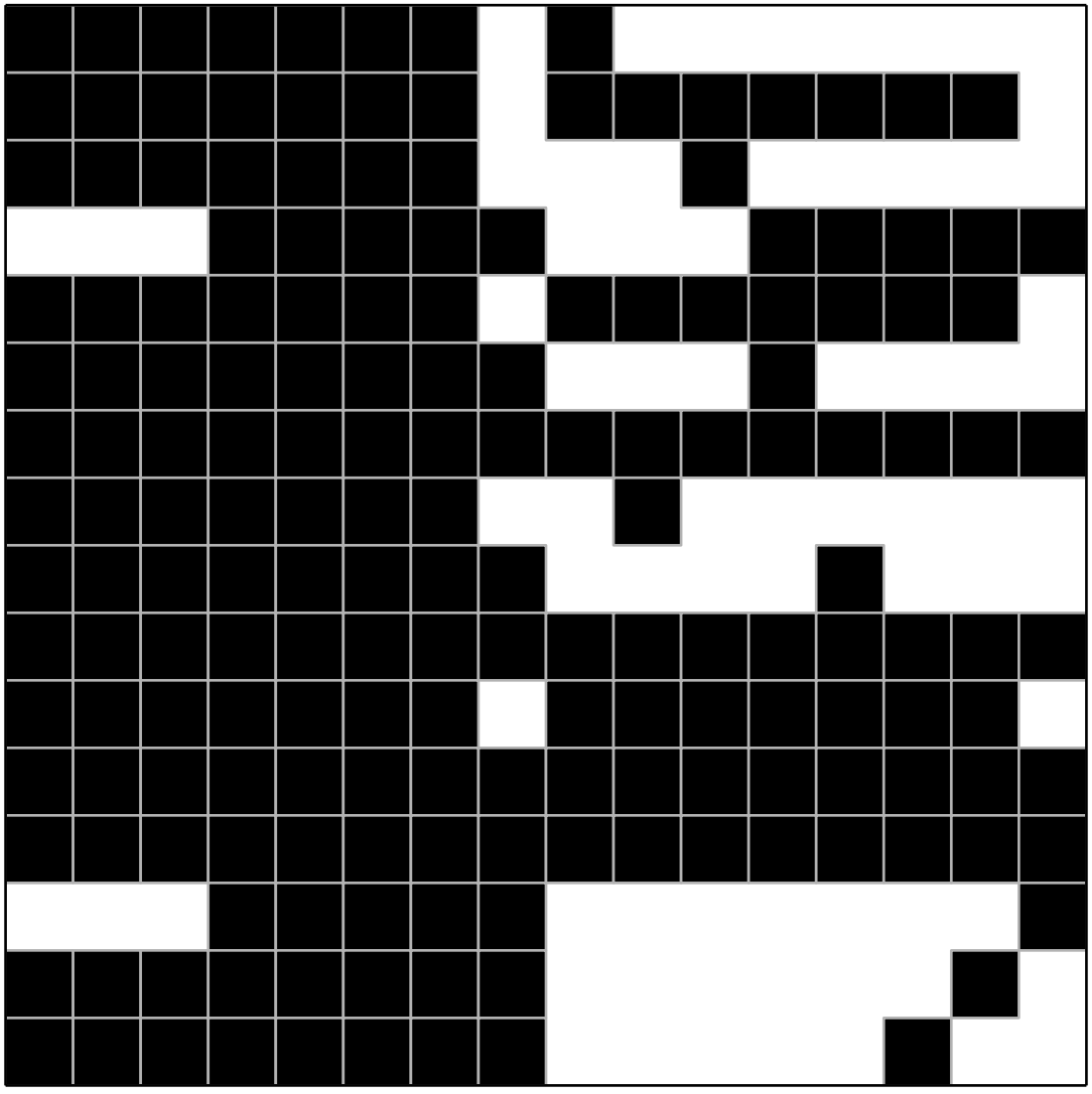


lib3_virasoro-02 16x16 (182) con: 8, var: 8



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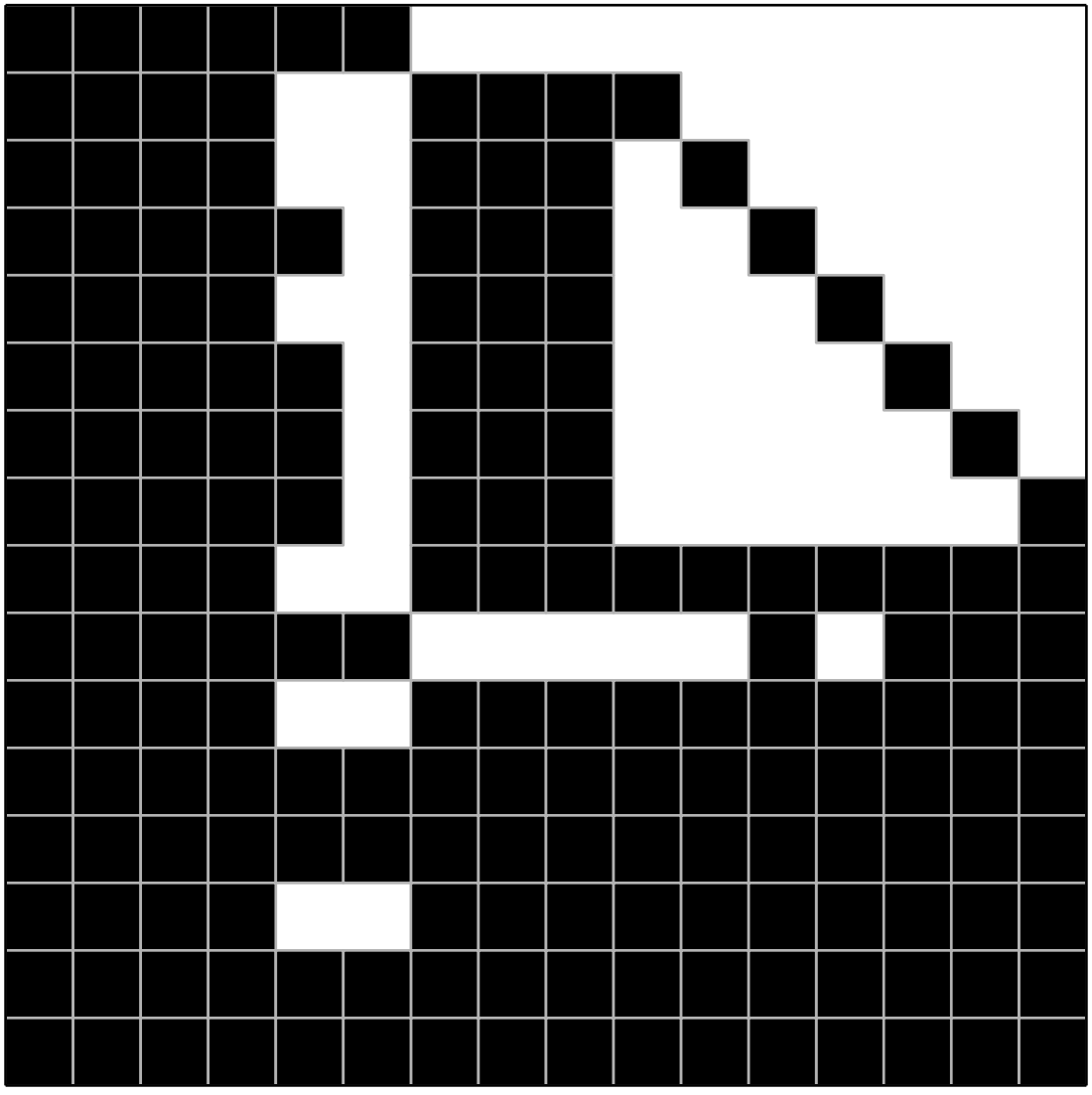
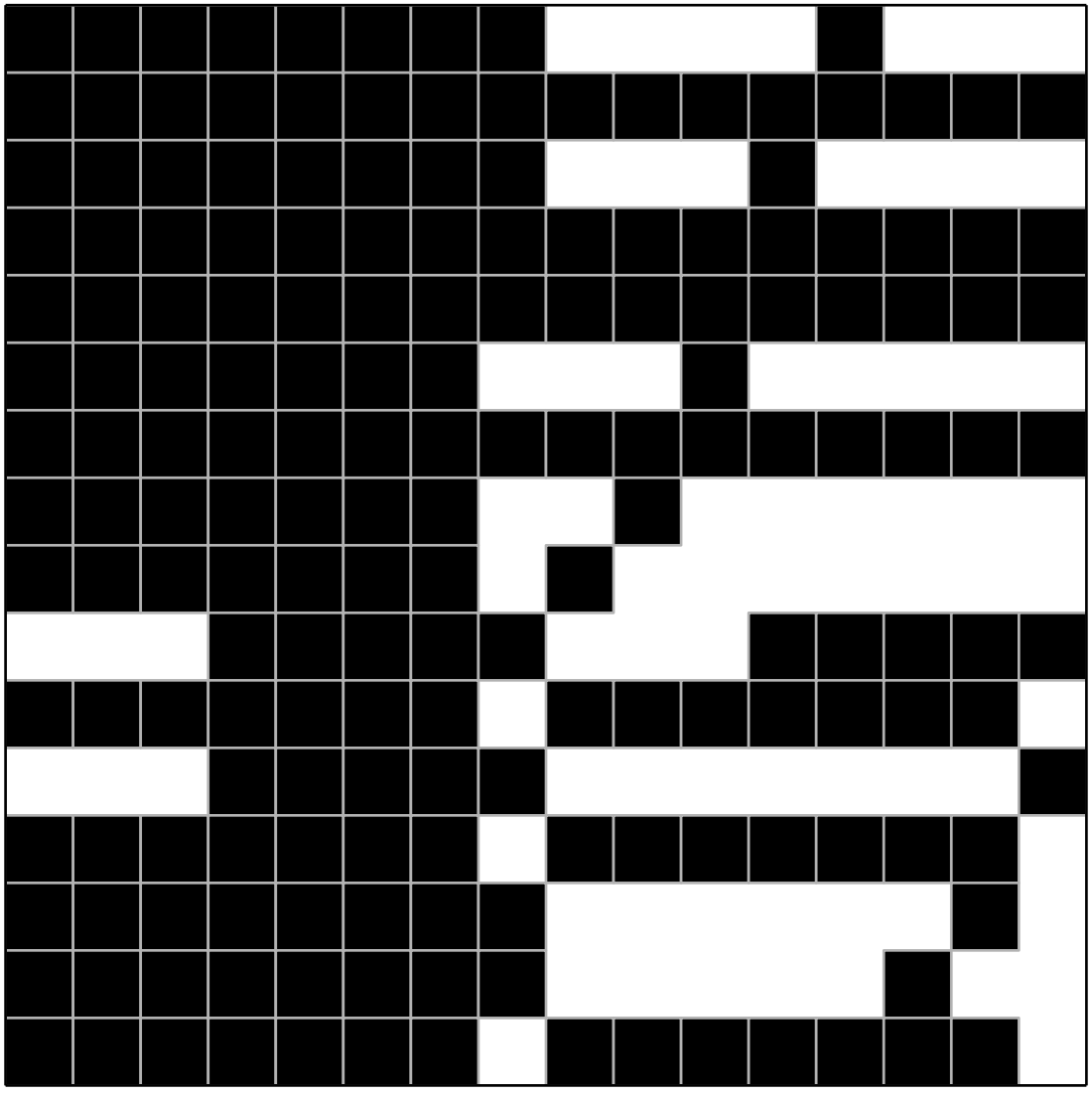


lib3_virasoro-03 16x16 (182) con: 8, var: 8



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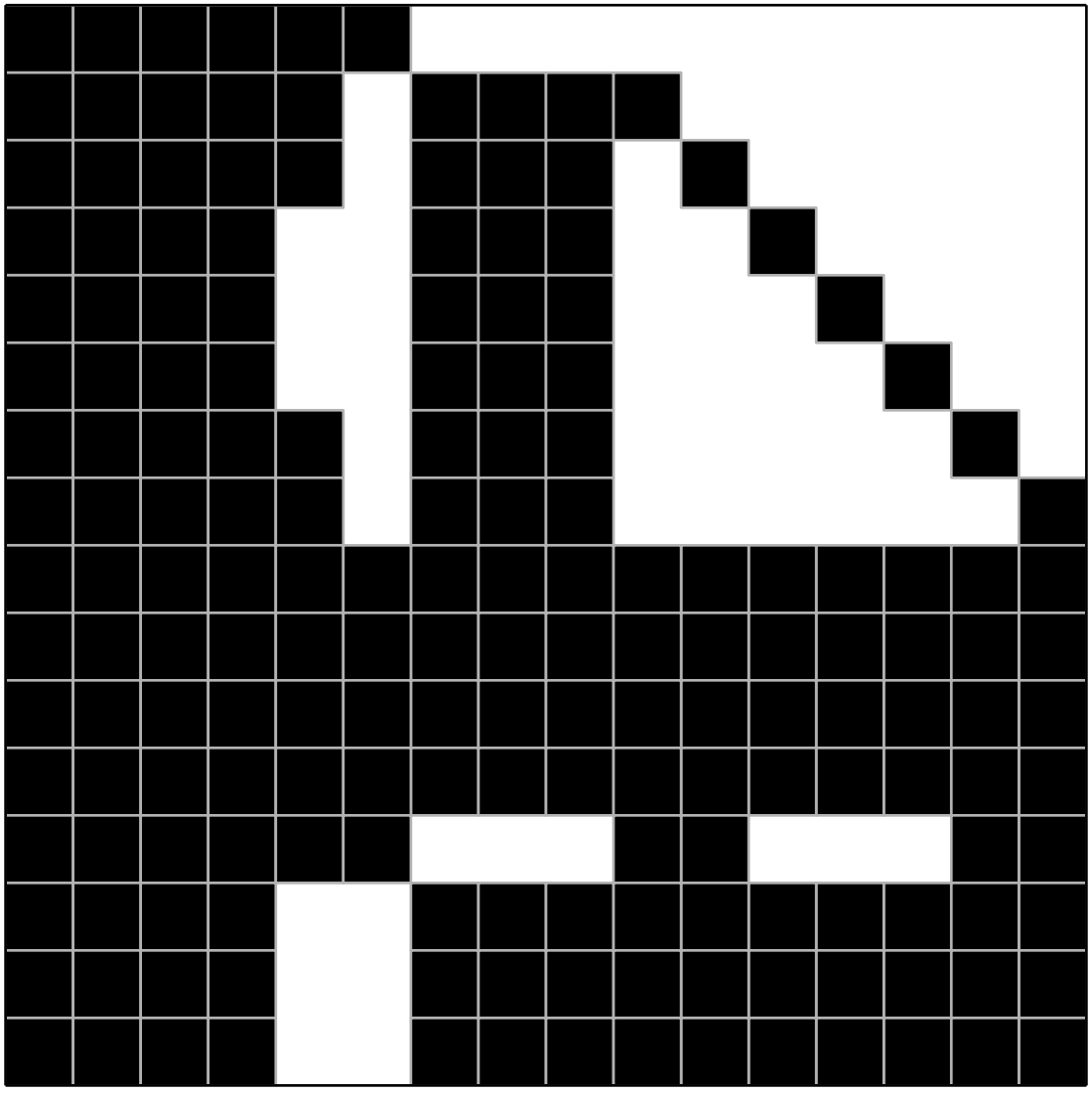
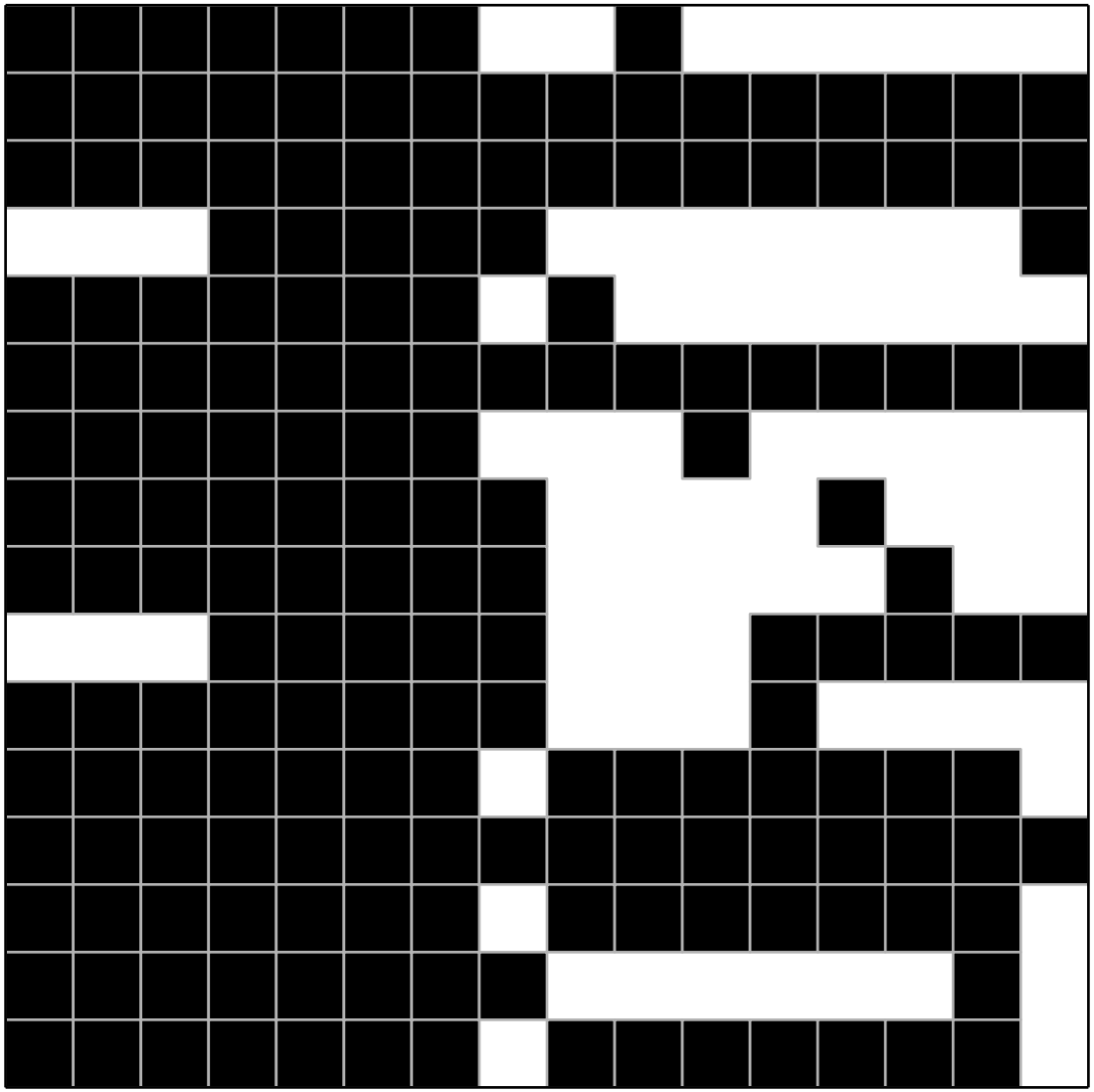
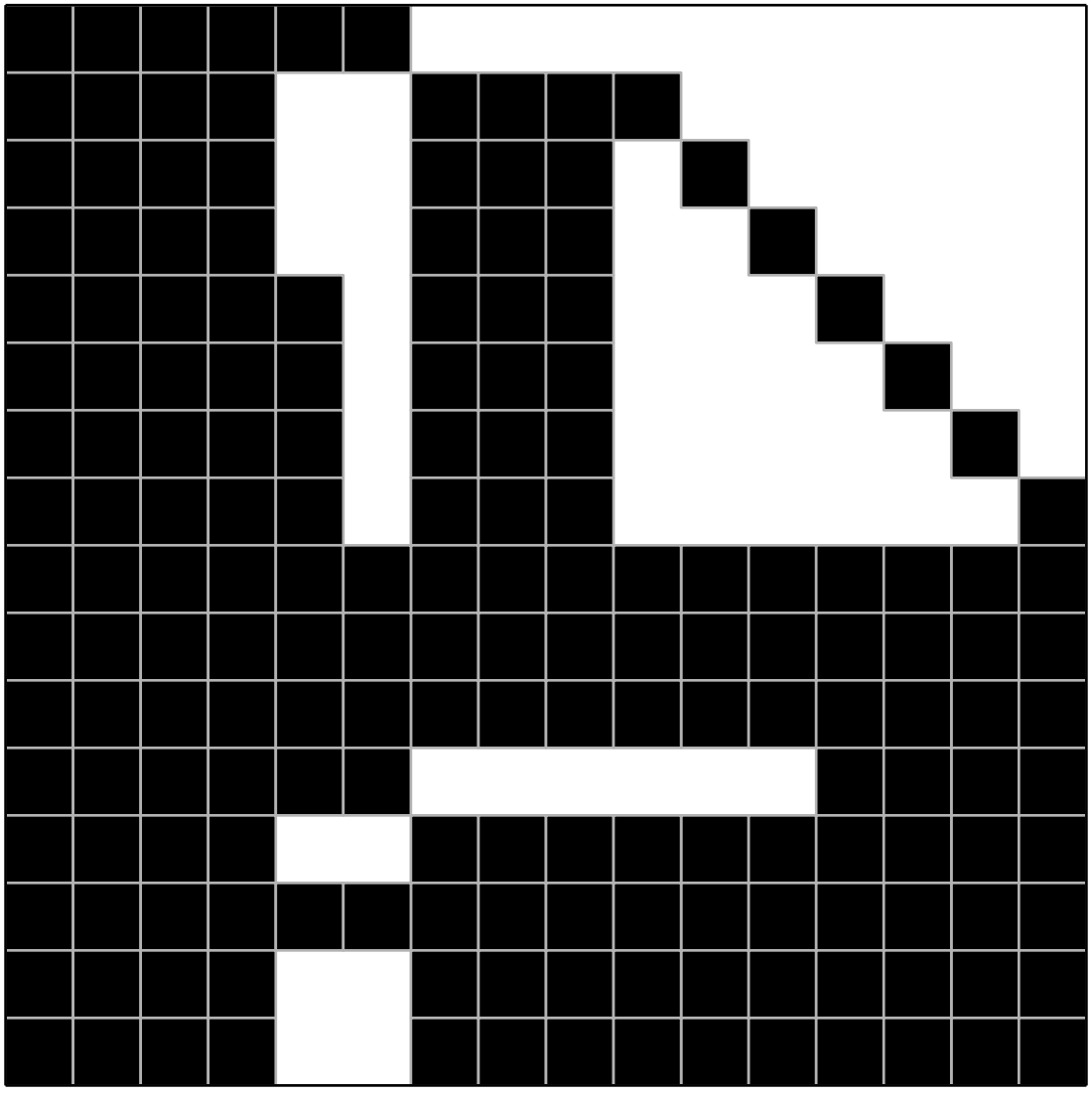


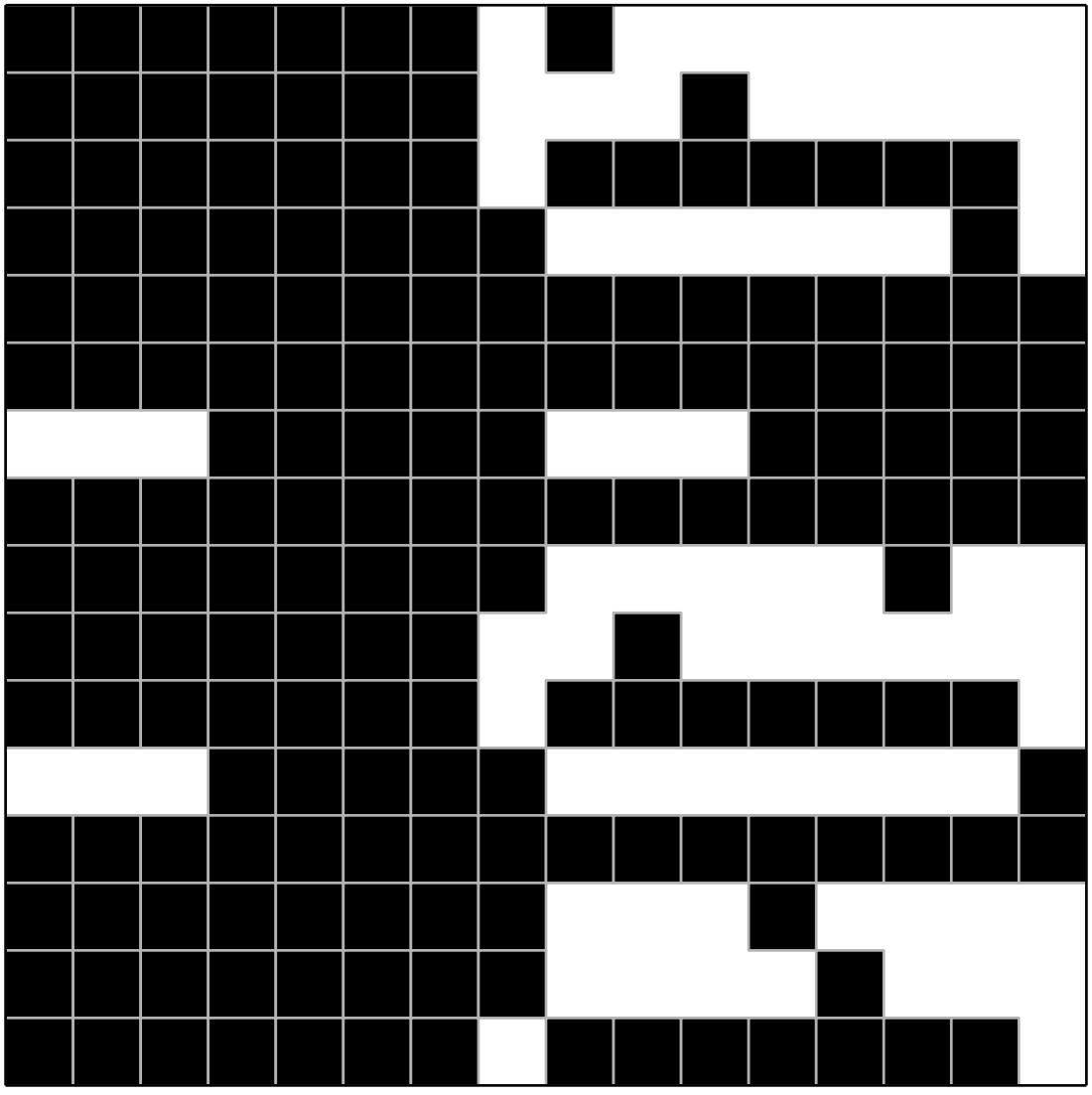
lib3_virasoro-04 16x16 (182) con: 8, var: 8

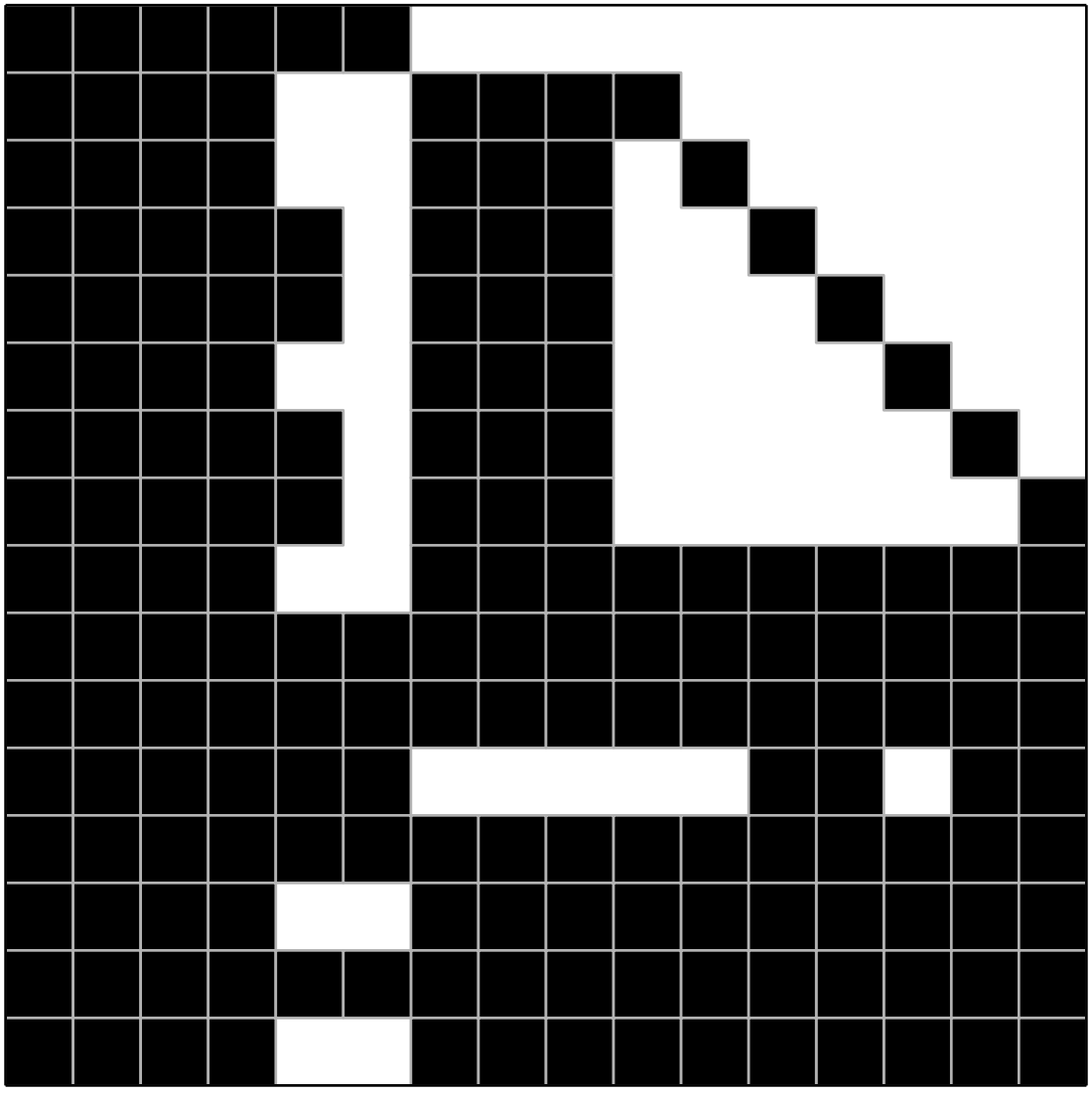


lib3_virasoro-04, cost: 8, diff: 8, explored: 3, time: 0.00s



lib3_virasoro-05 16x16 (182) con: 8, var: 8

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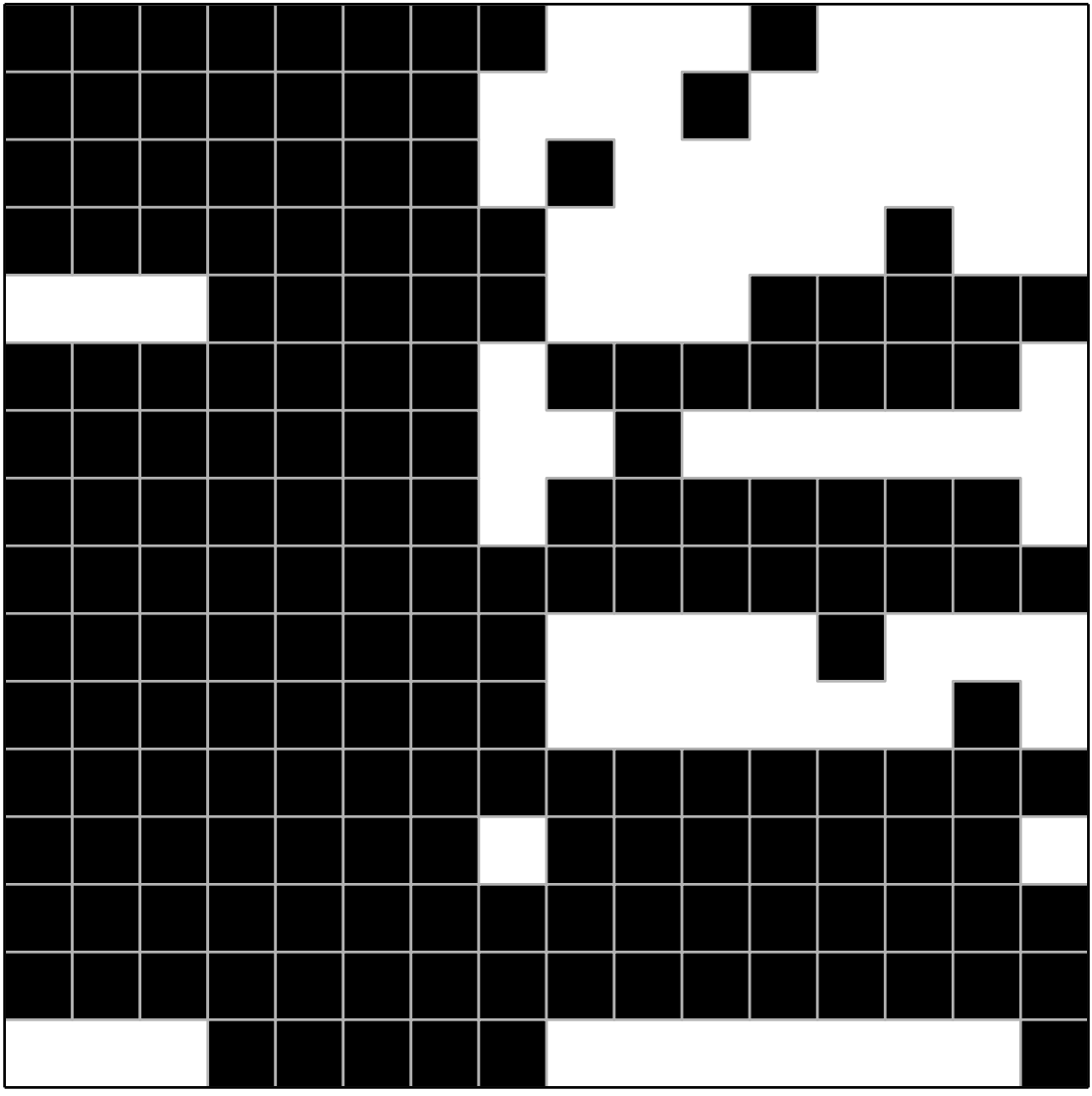
lib3_virasoro-06 16x16 (182) con: 8, var: 8



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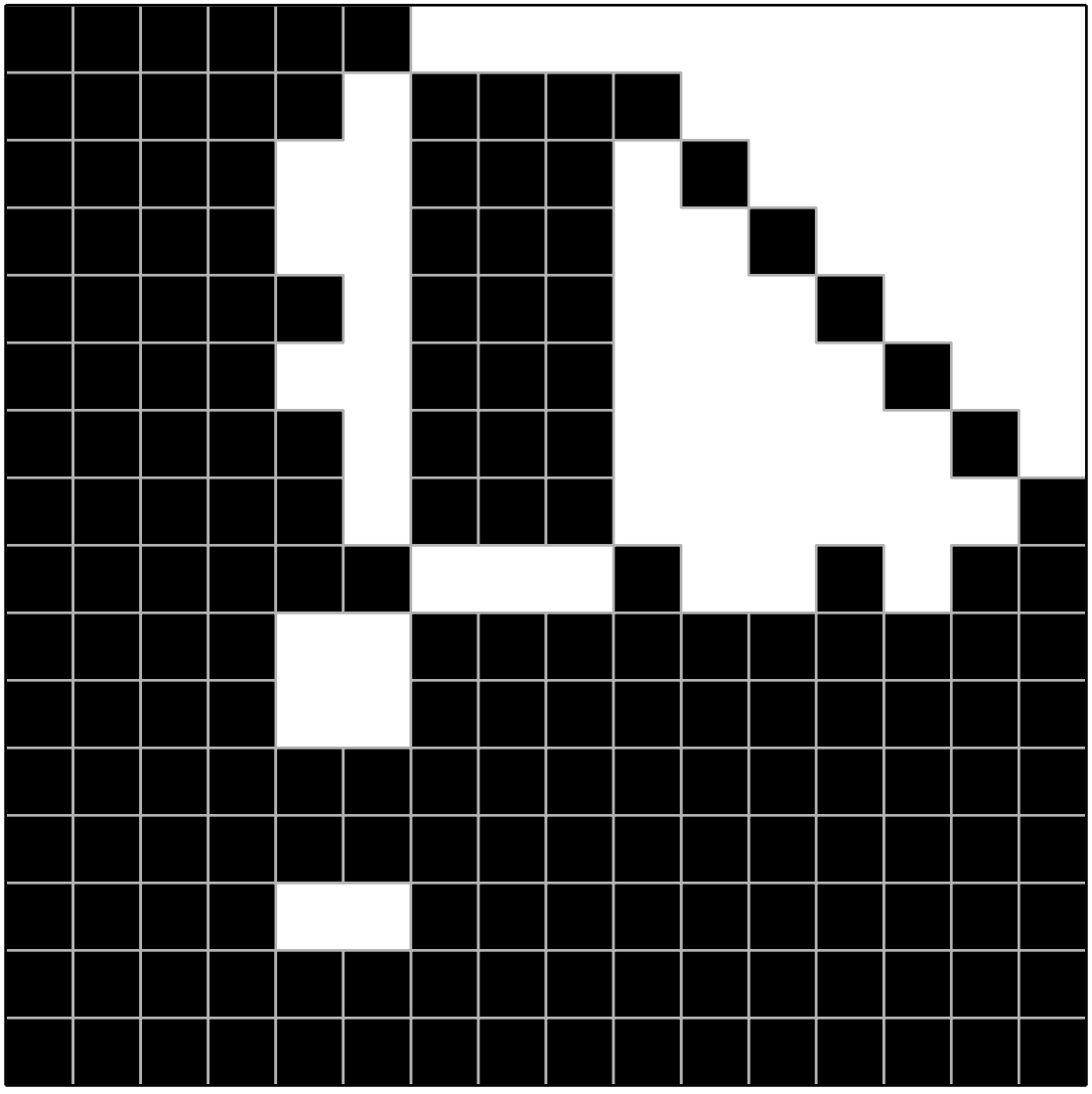
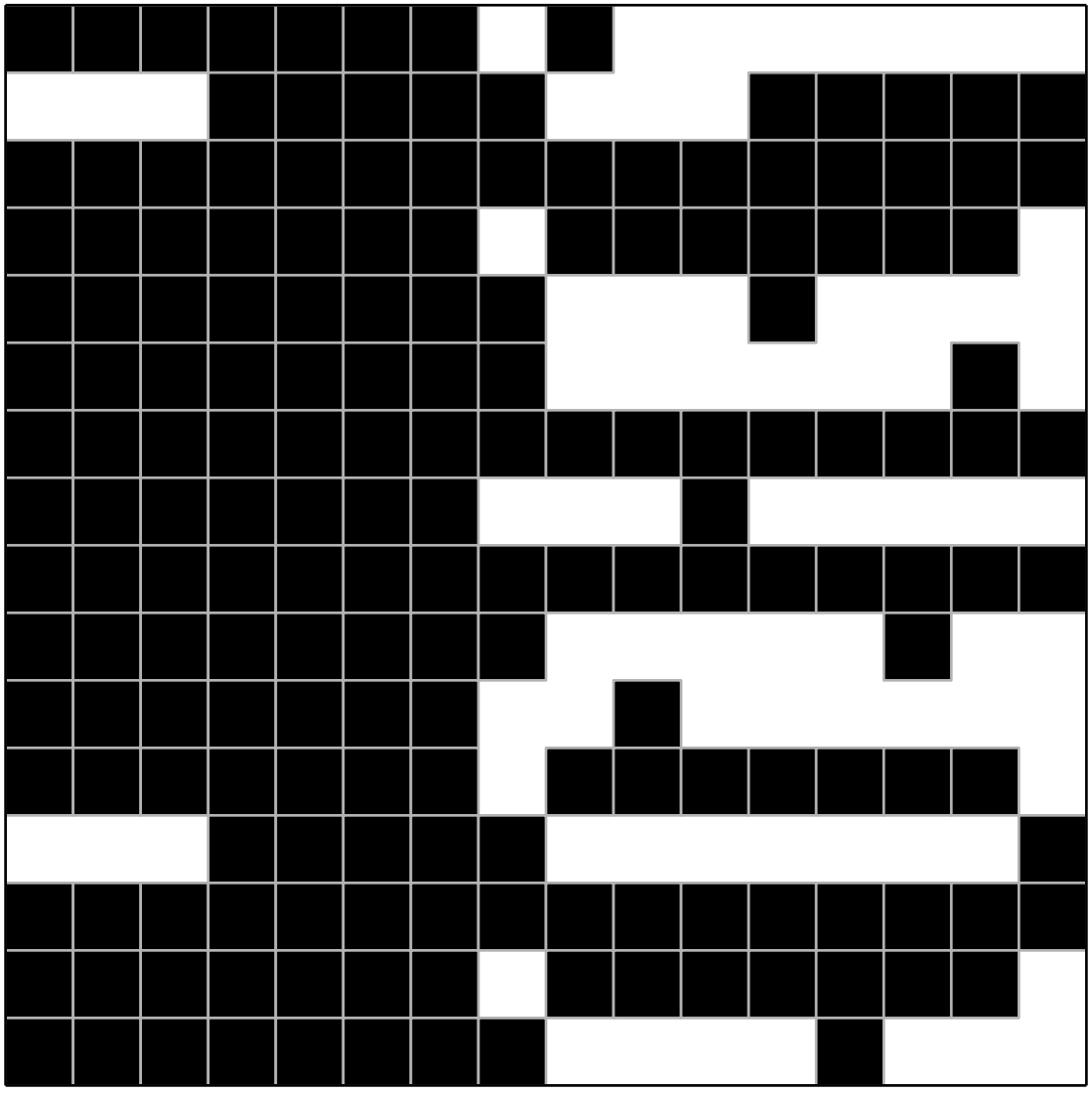


lib3_virasoro-07 16x16 (182) con: 8, var: 8



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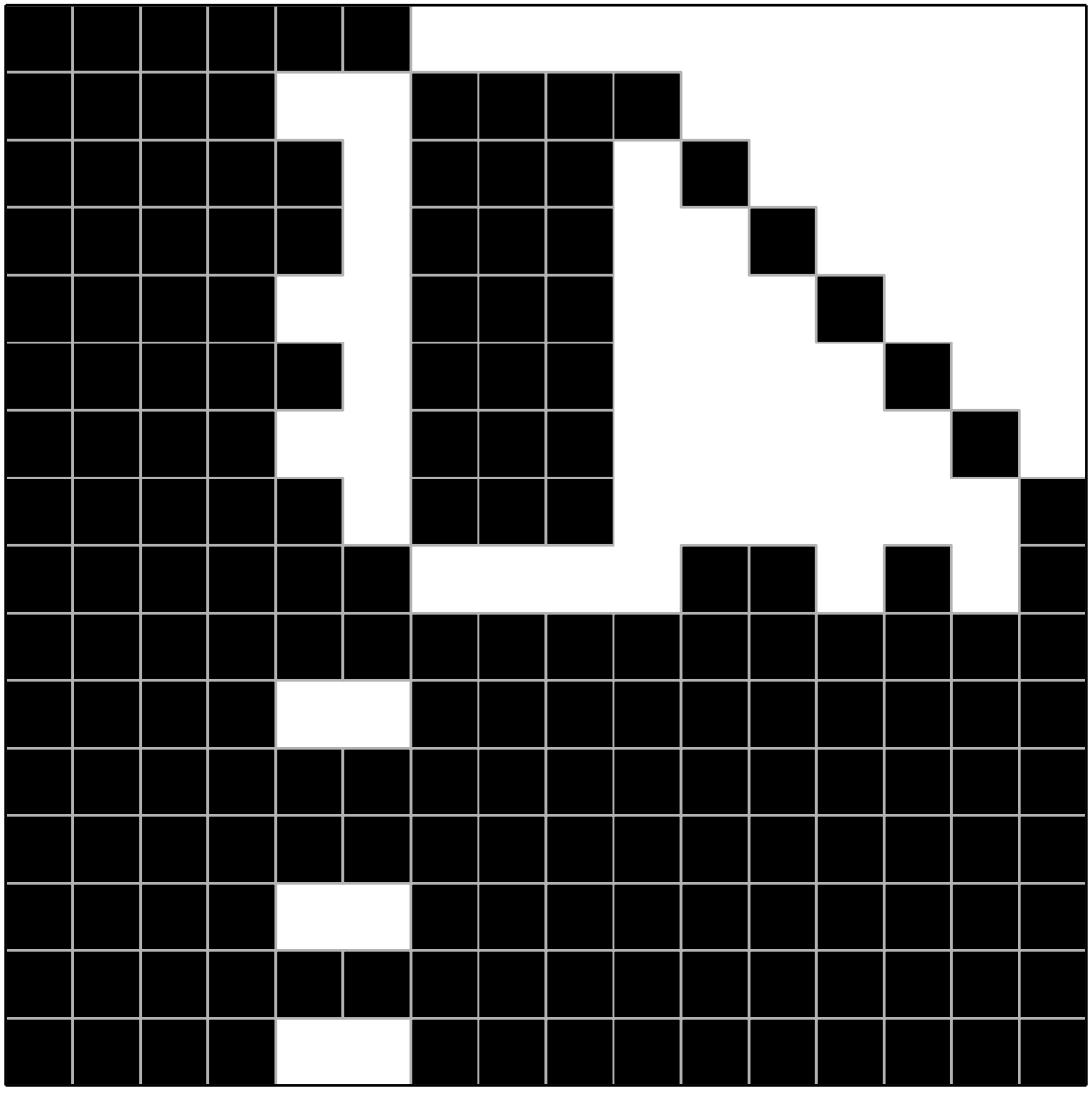
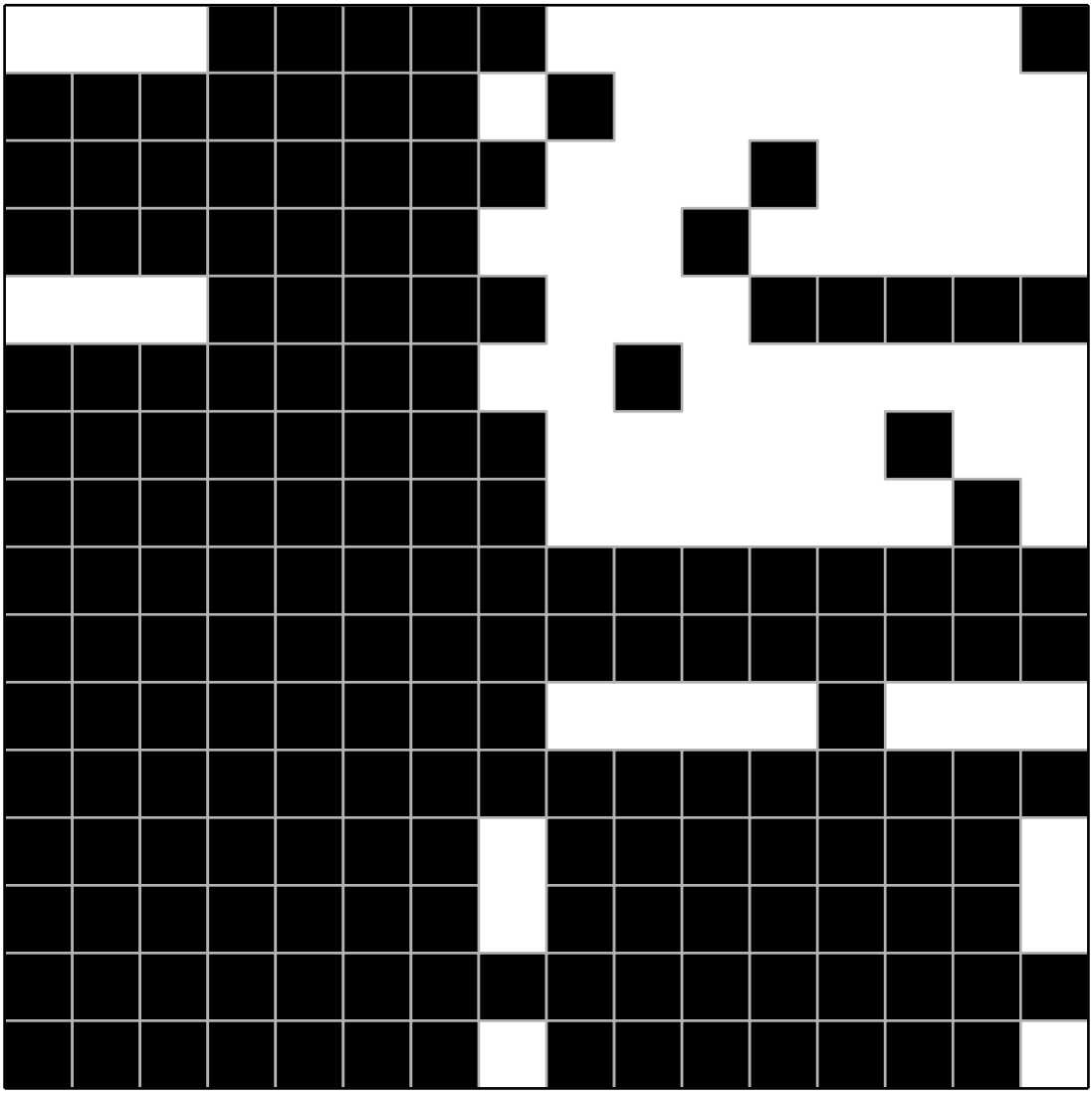


lib3_virasoro-08 16x16 (182) con: 8, var: 8



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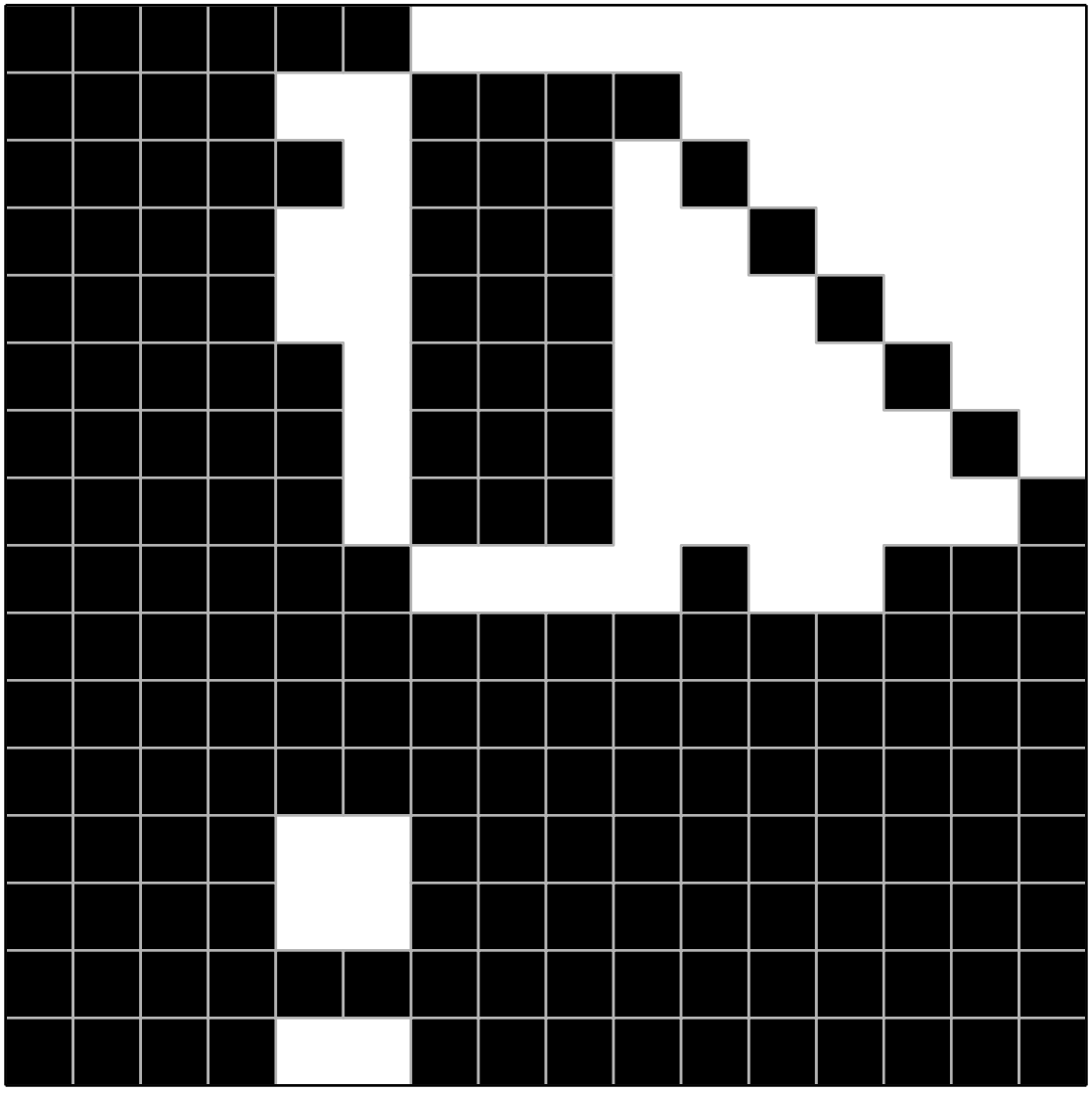

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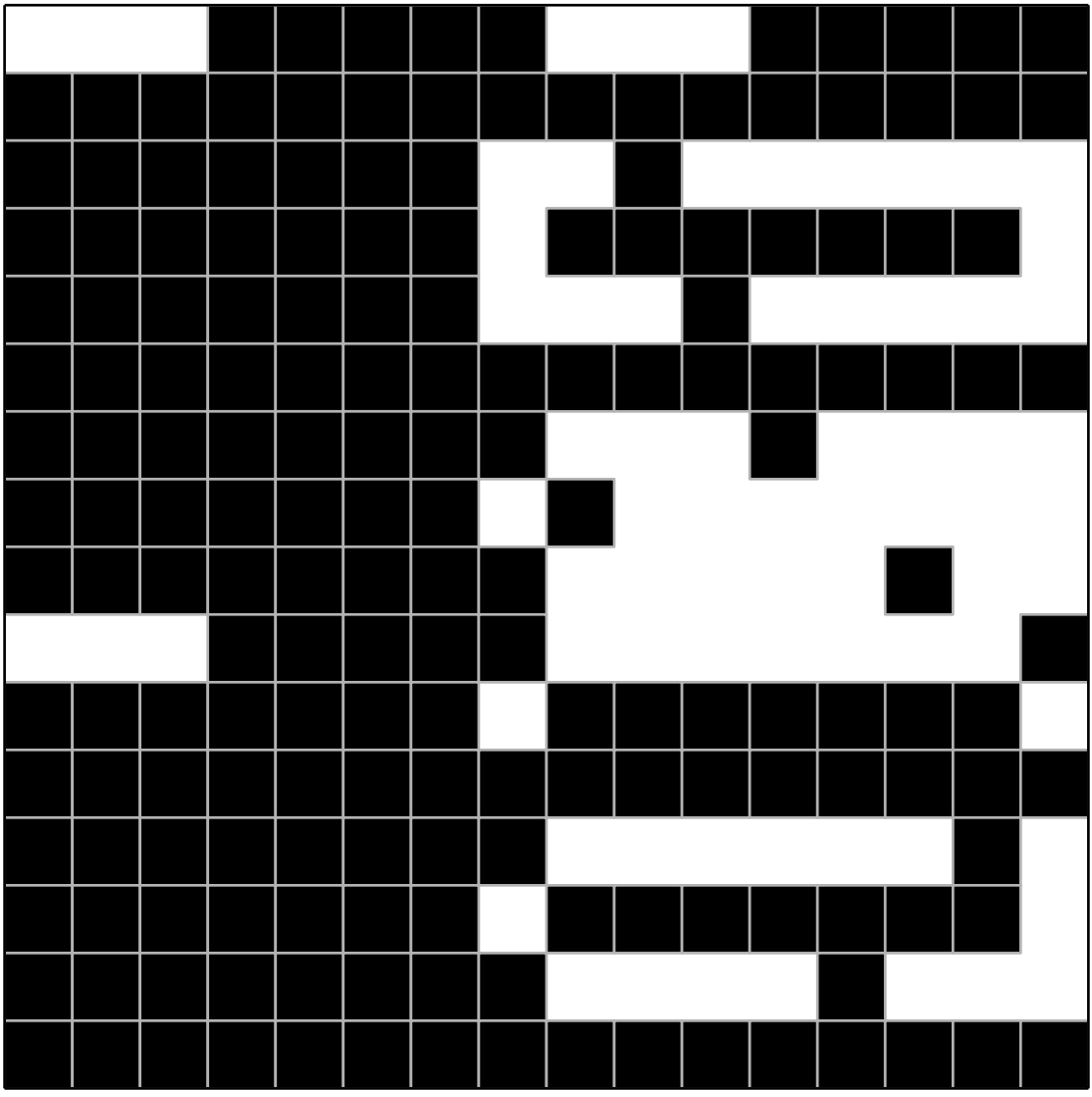

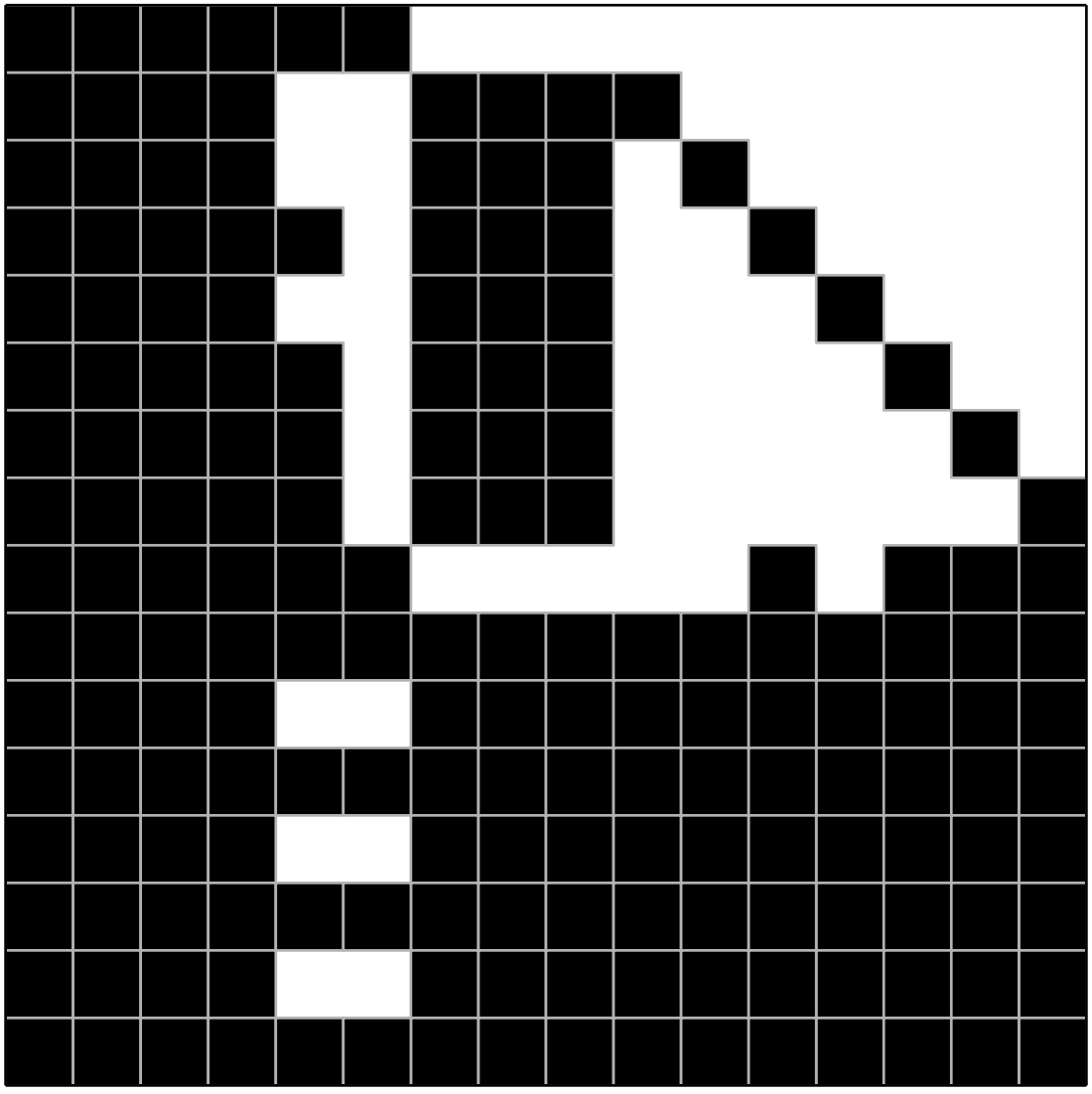
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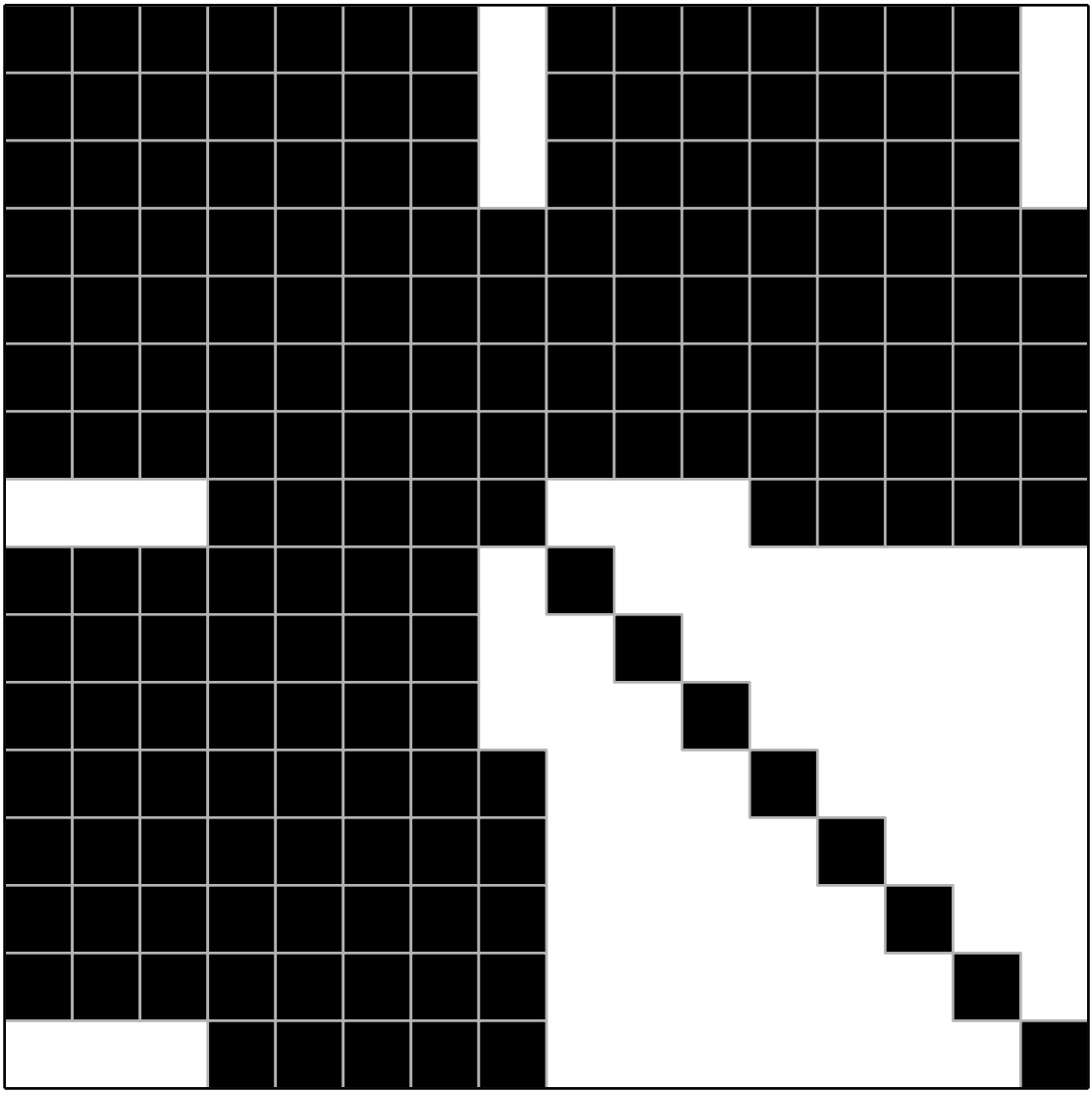
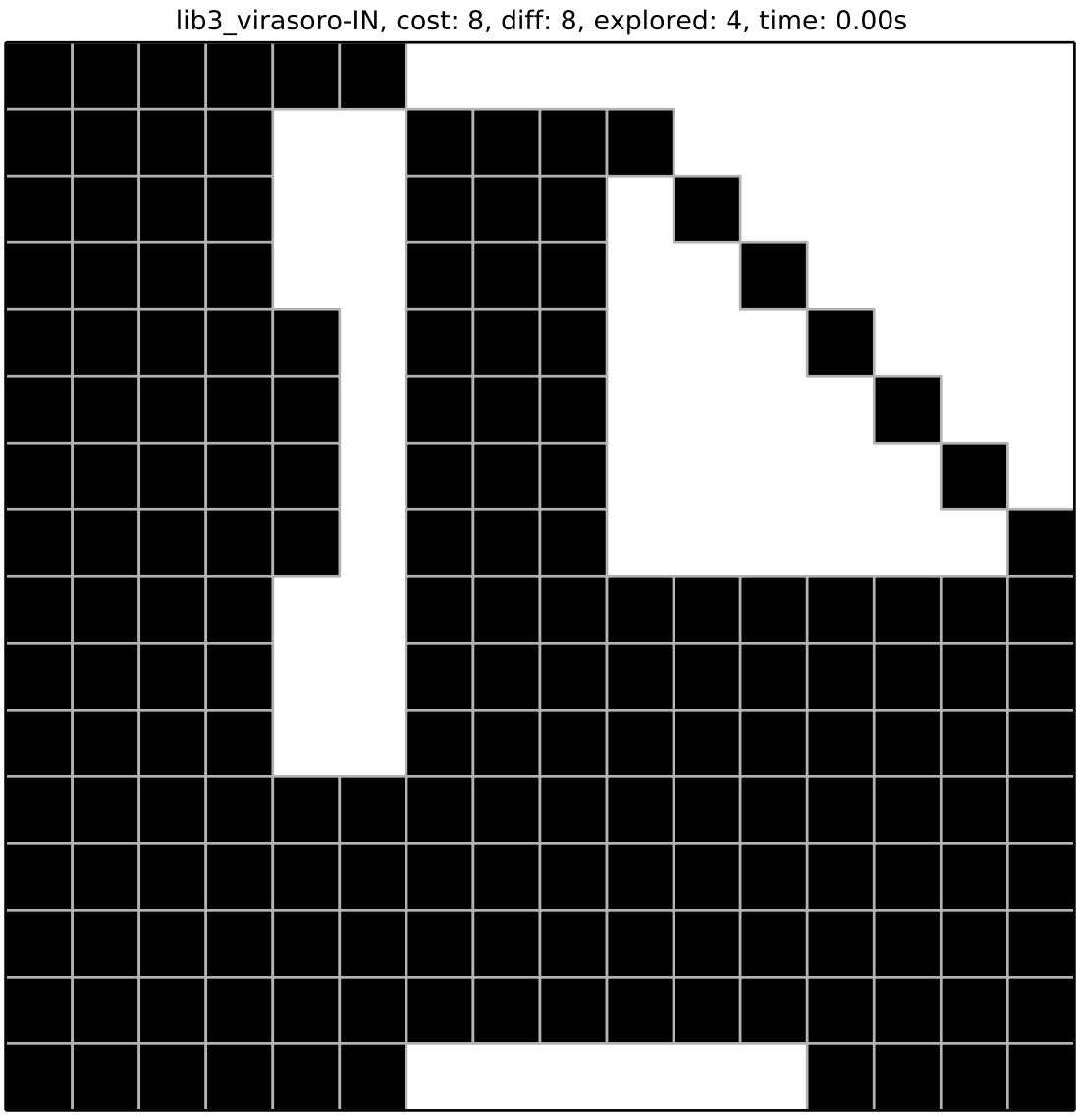
lib3_virasoro-IN 16x16 (182) con: 8, var: 8

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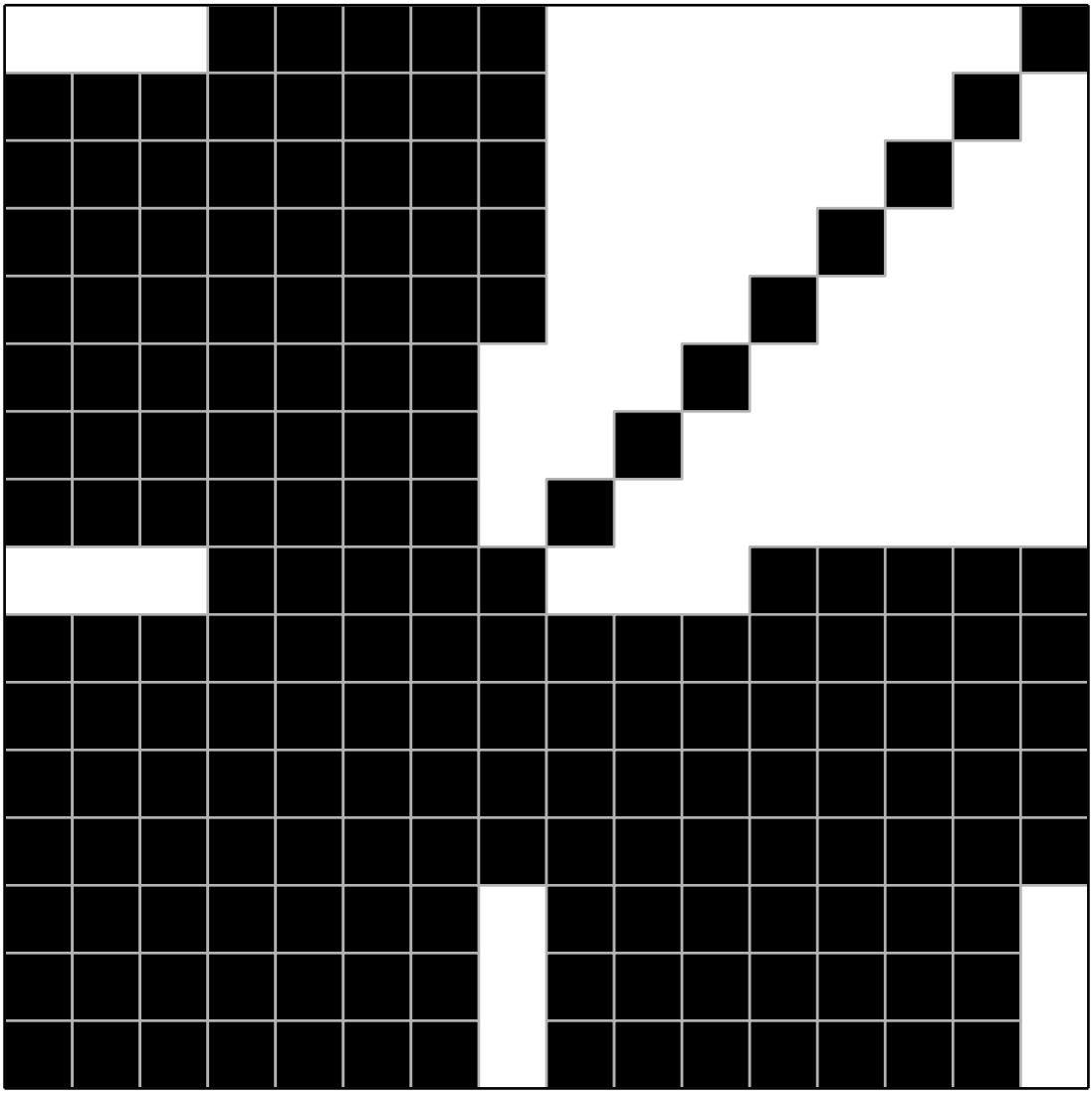
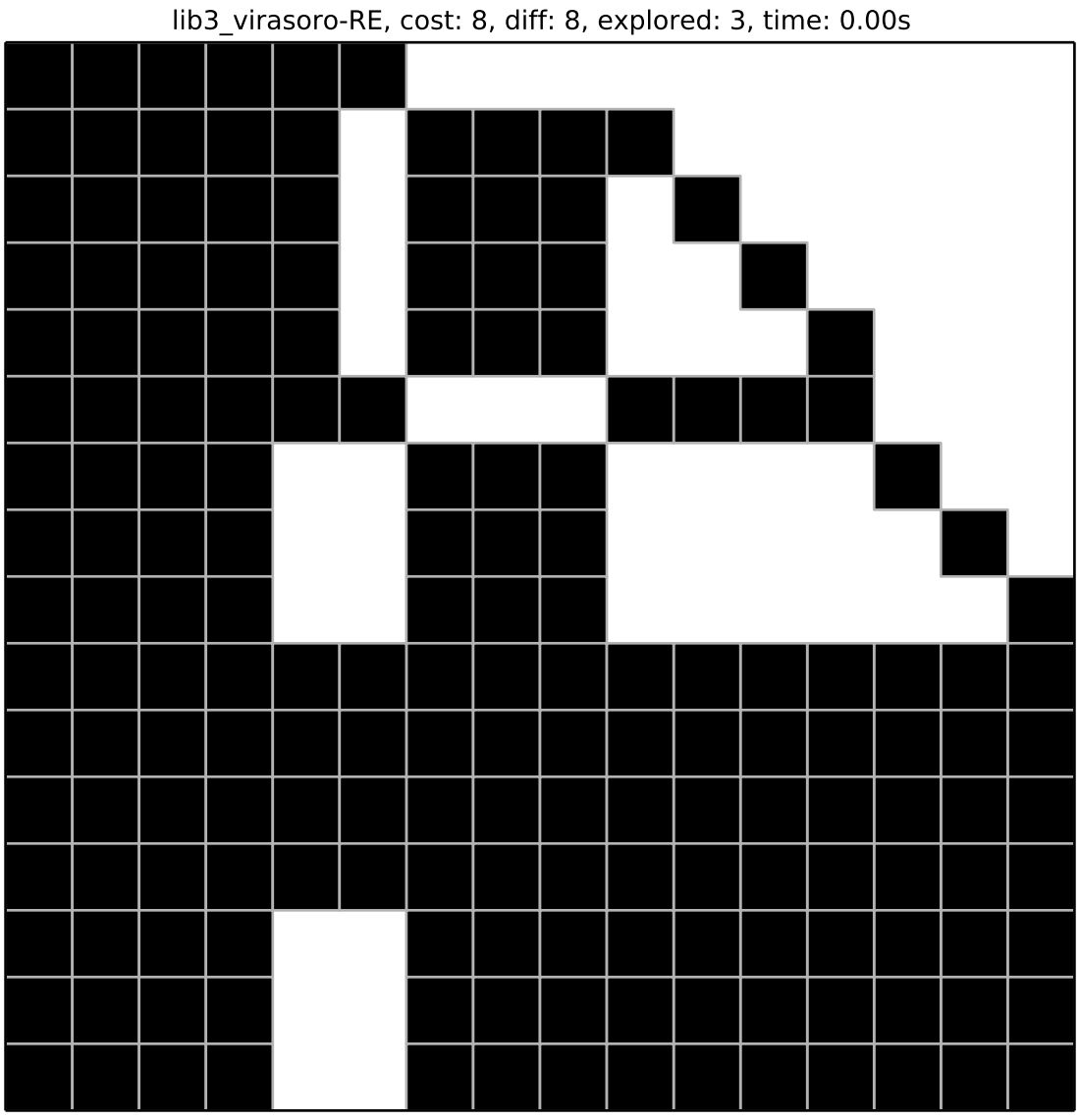
lib3_virasoro-RE 16x16 (182) con: 8, var: 8

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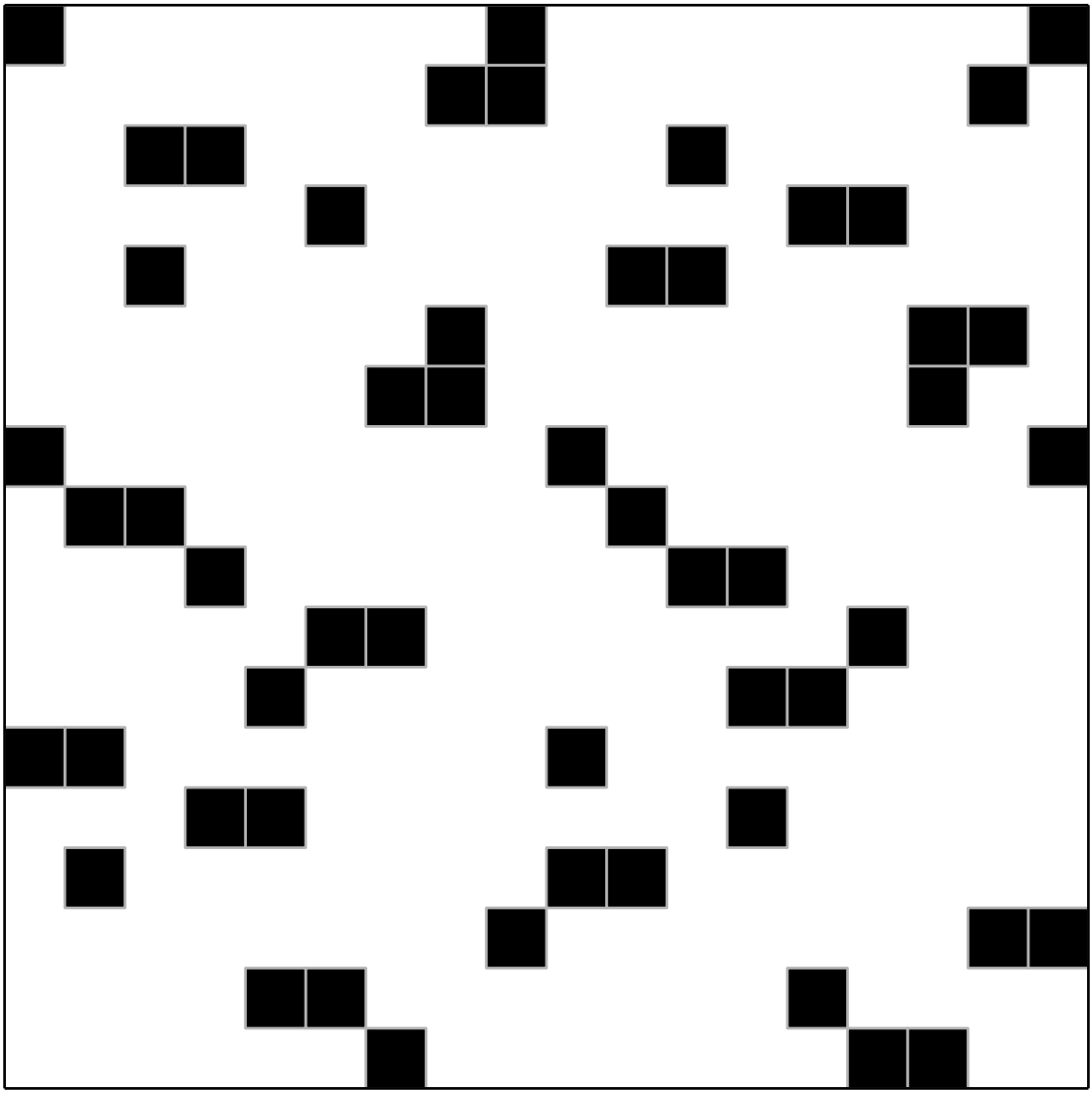
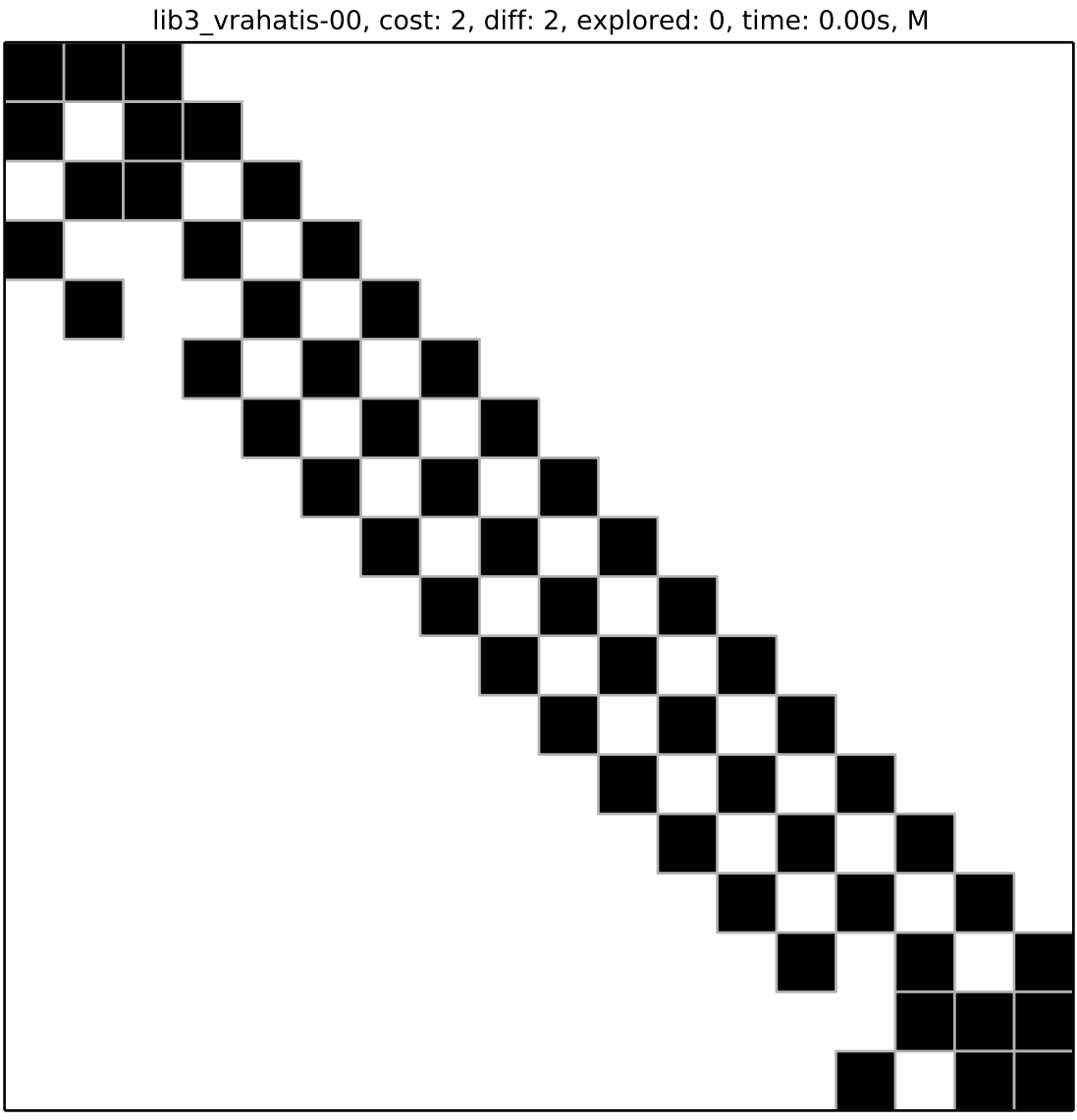
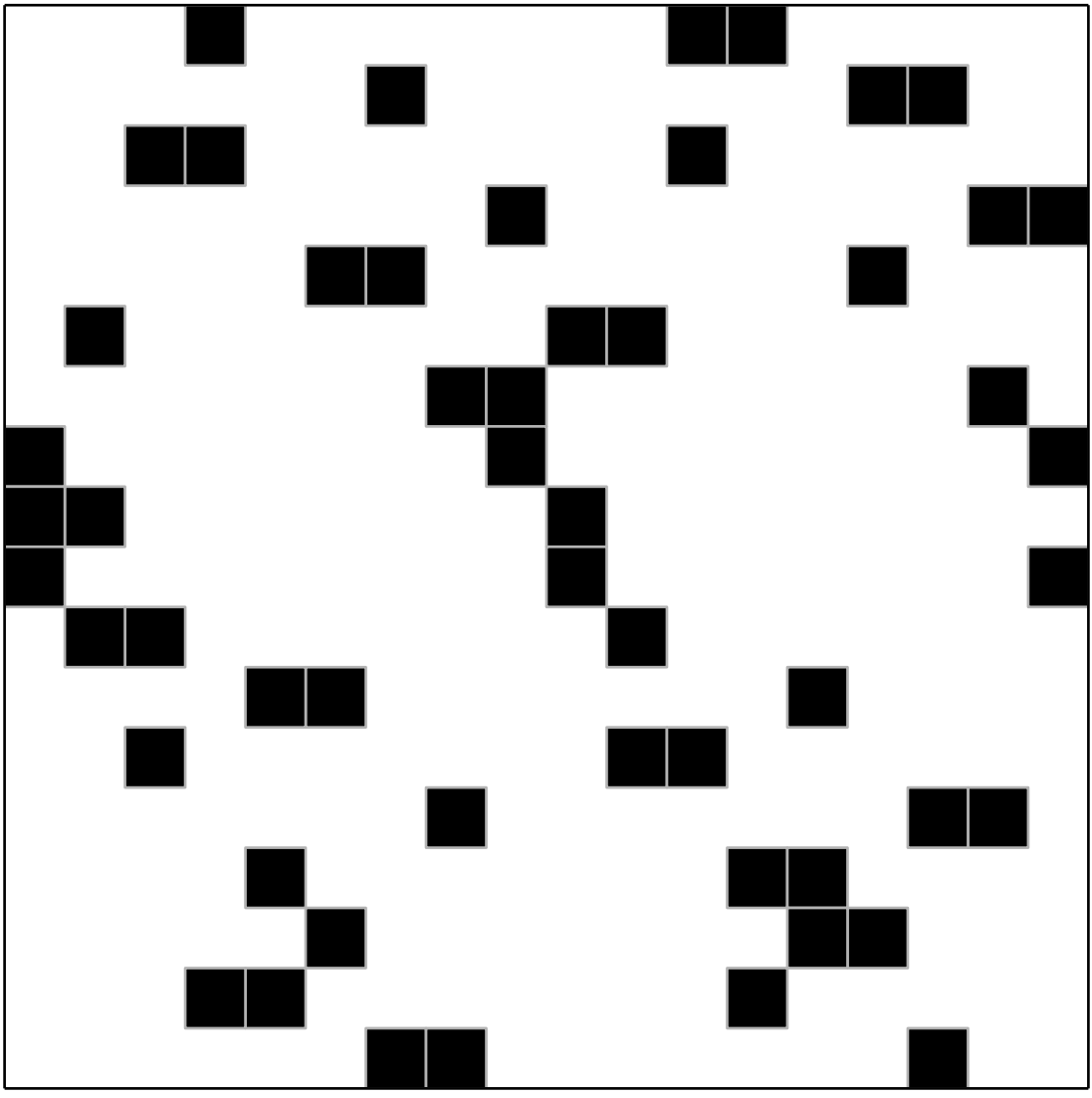
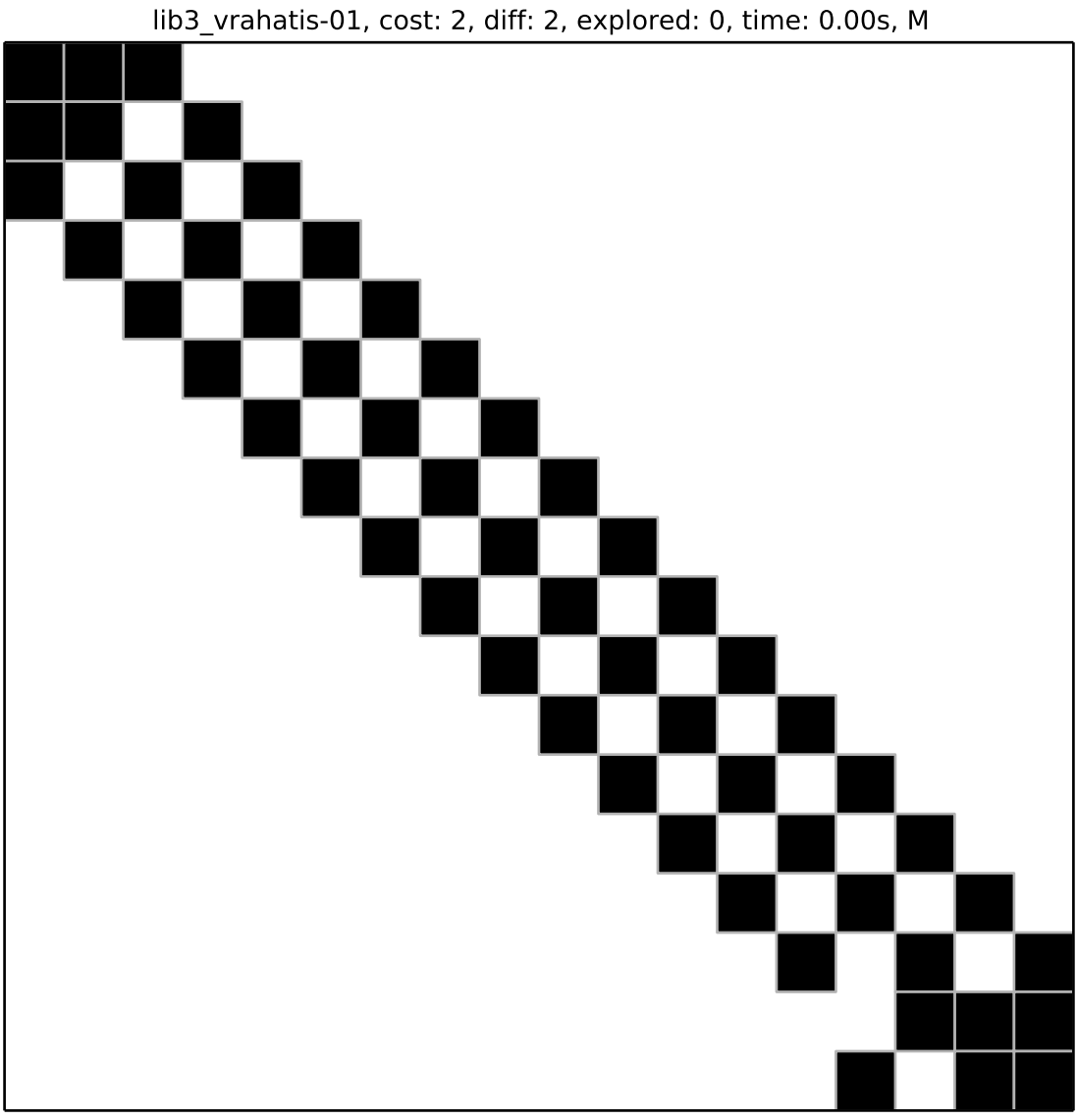
lib3_vrahatis-00 18x18 (54) con: 9, var: 9




lib3_vrahatis-00, cost: 2, diff: 2, explored: 0, time: 0.00s, M

lib3_vrahatis-01 18x18 (54) con: 9, var: 9

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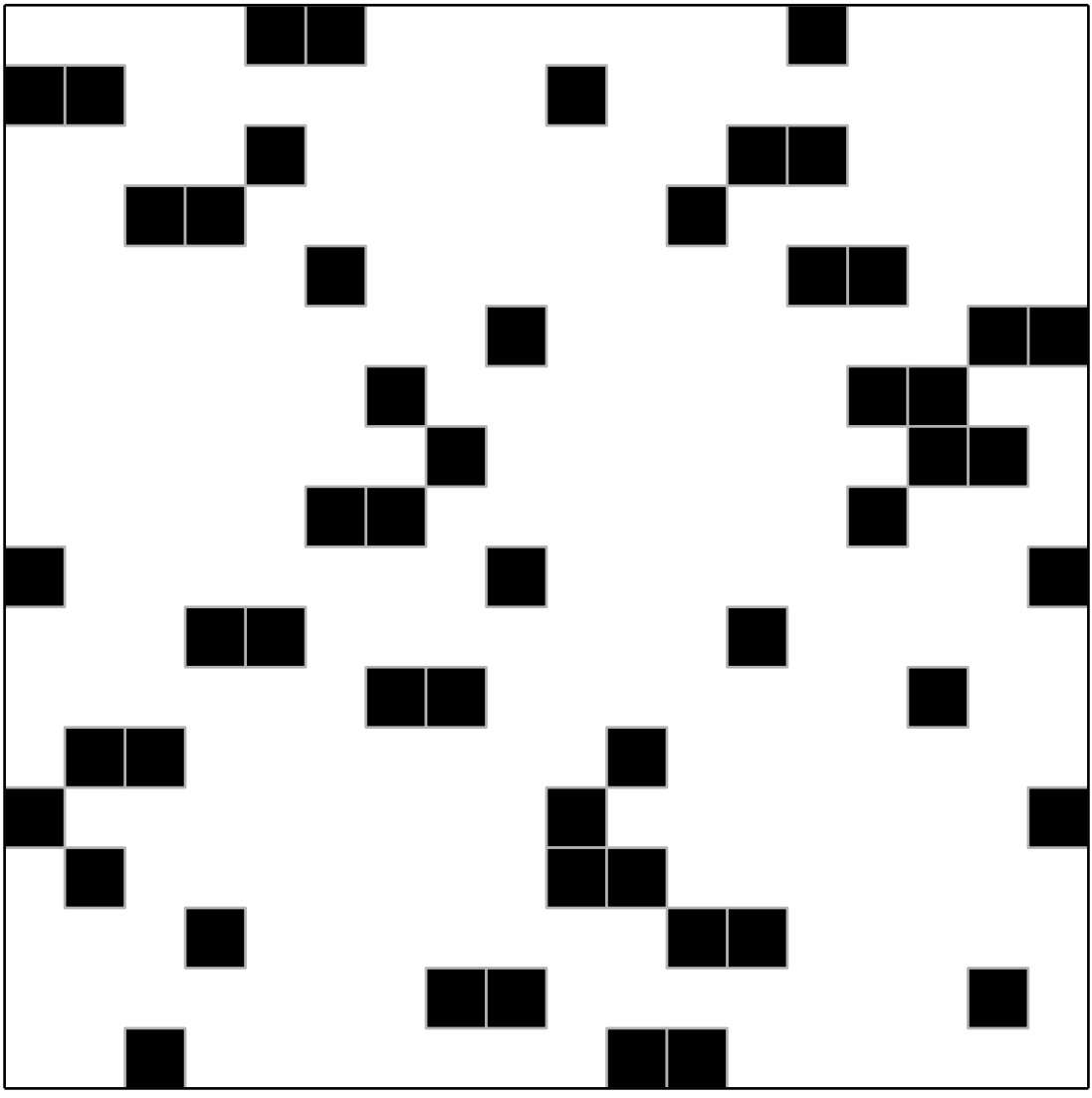
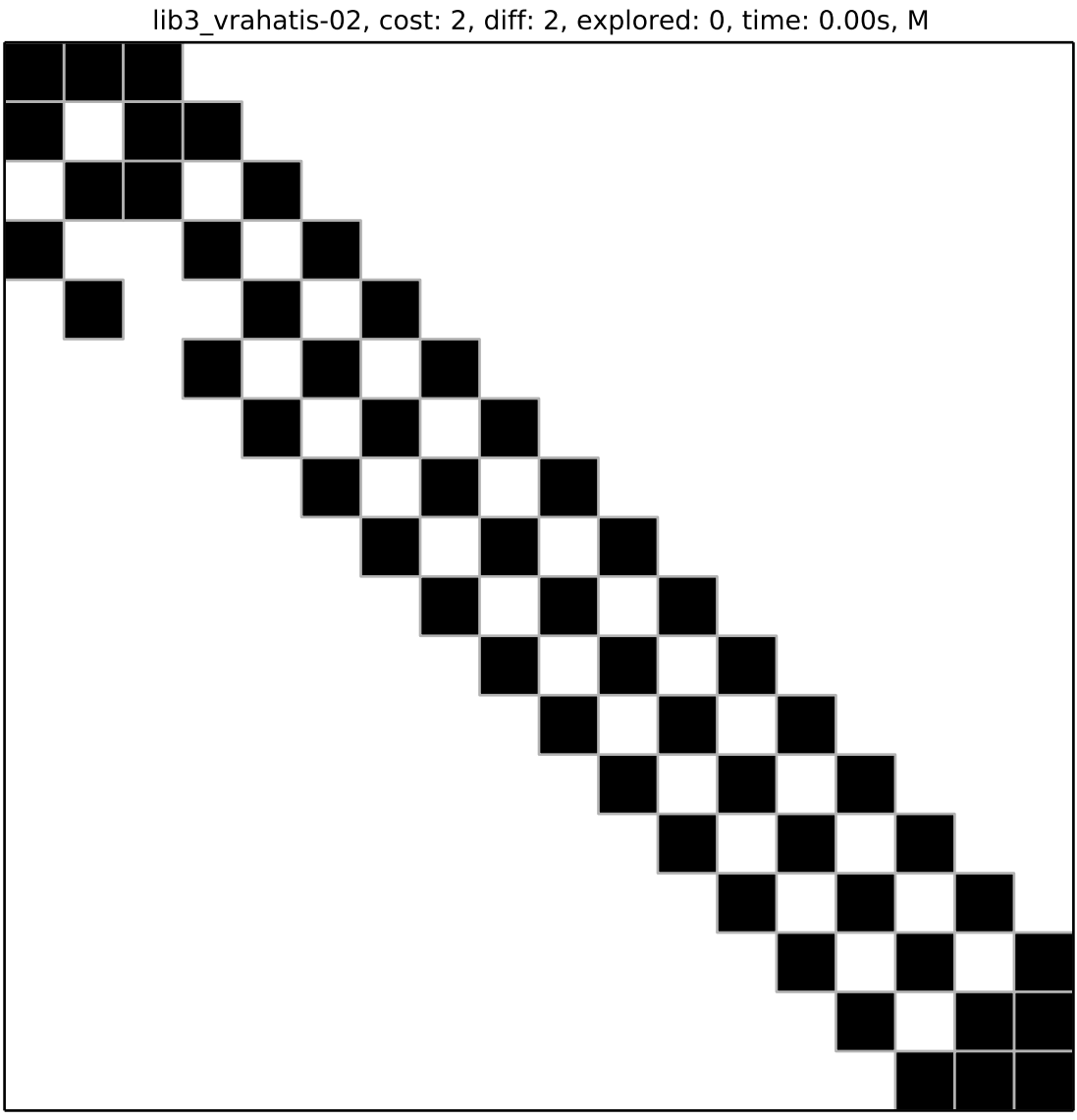
lib3_vrahatis-02 18x18 (54) con: 9, var: 9

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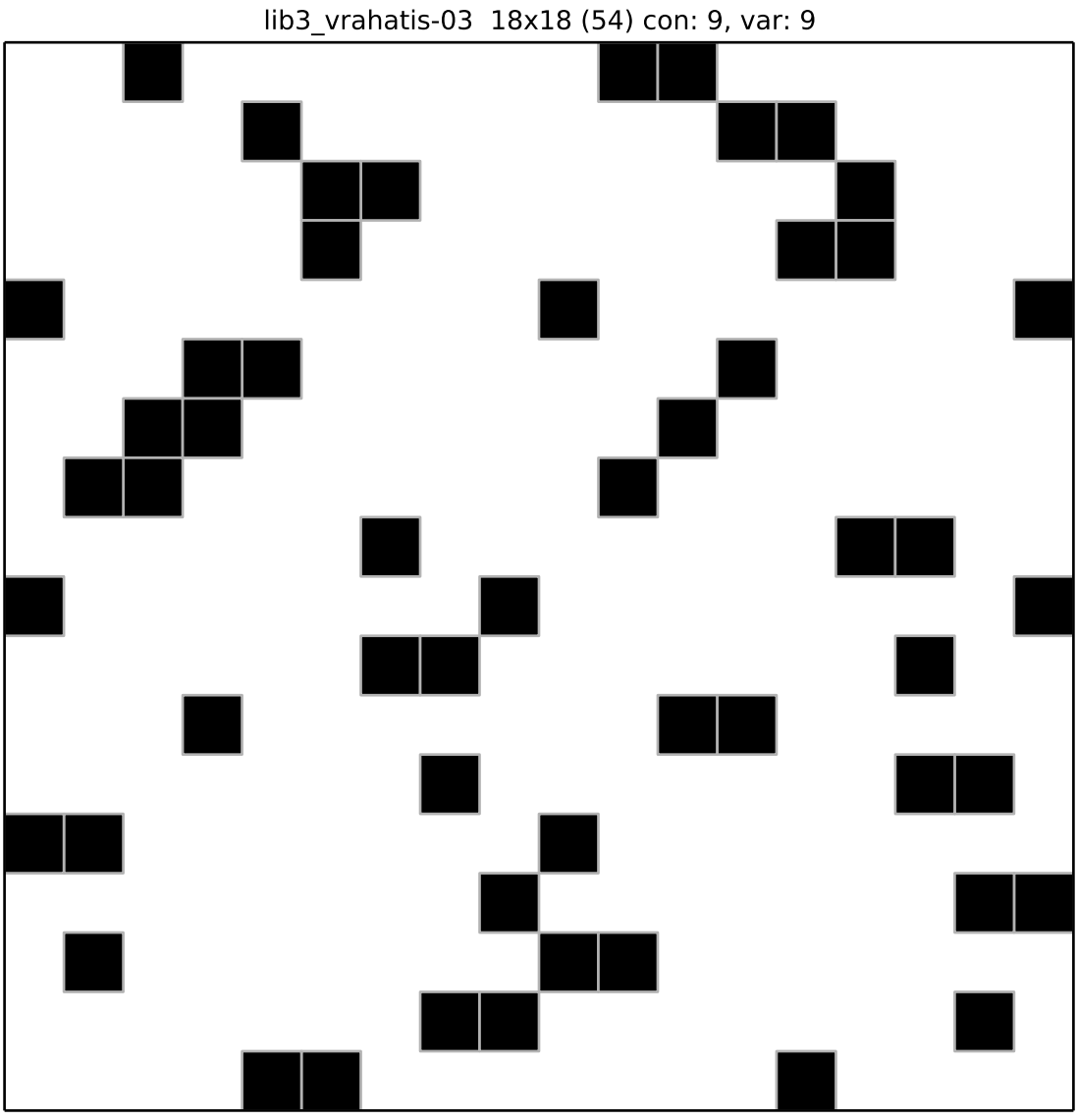
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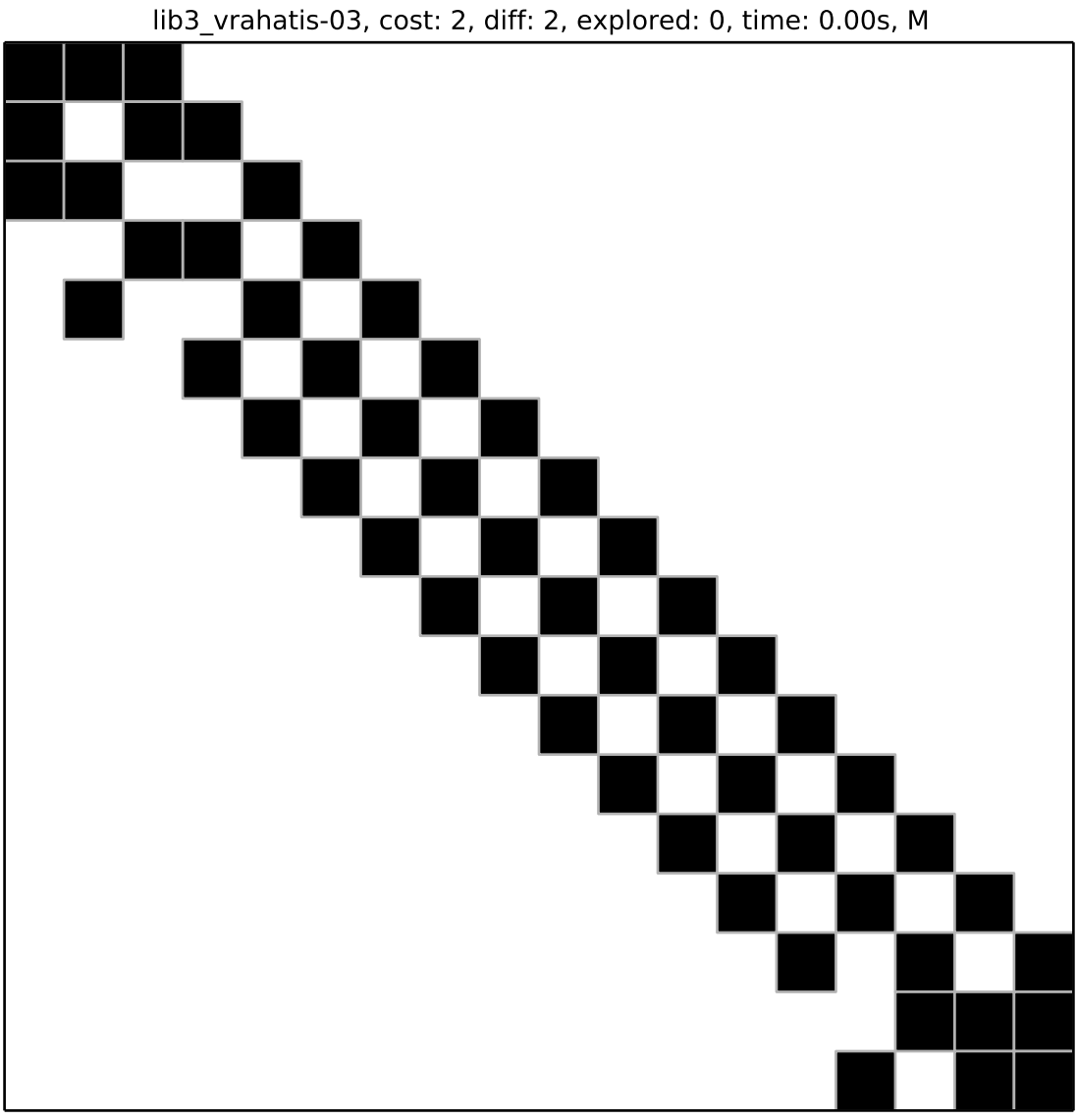
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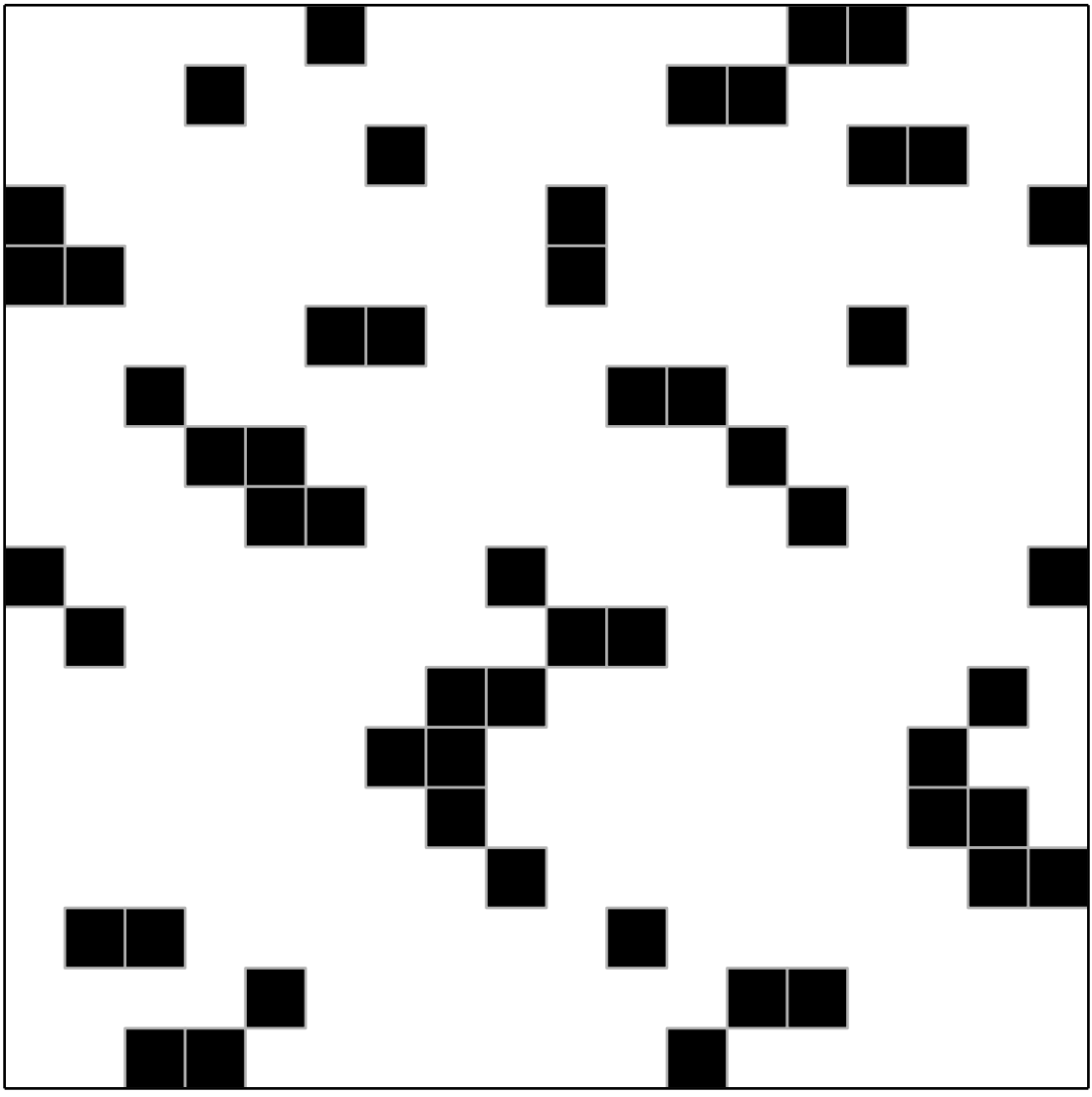
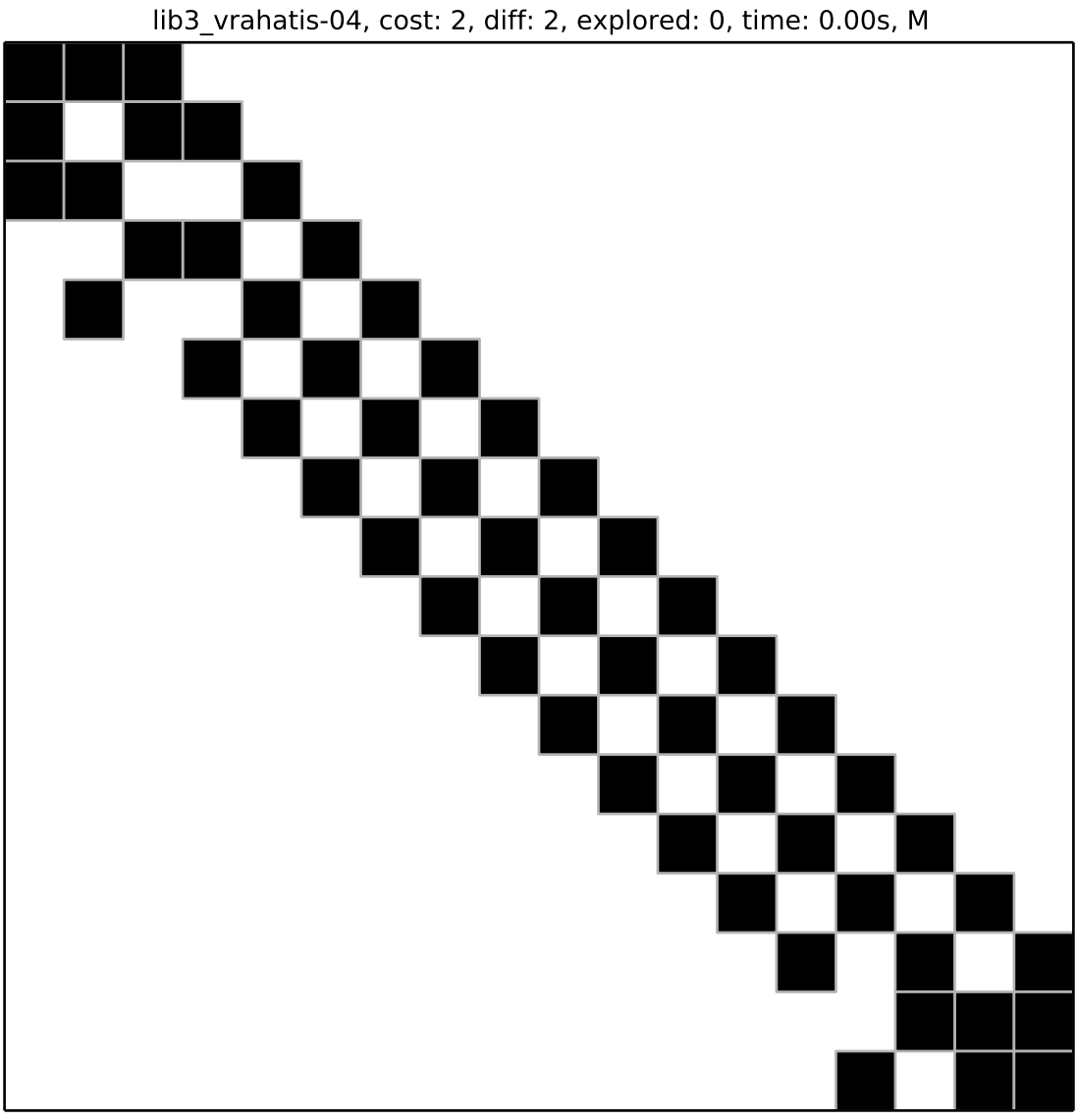
lib3_vrahatis-04 18x18 (54) con: 9, var: 9

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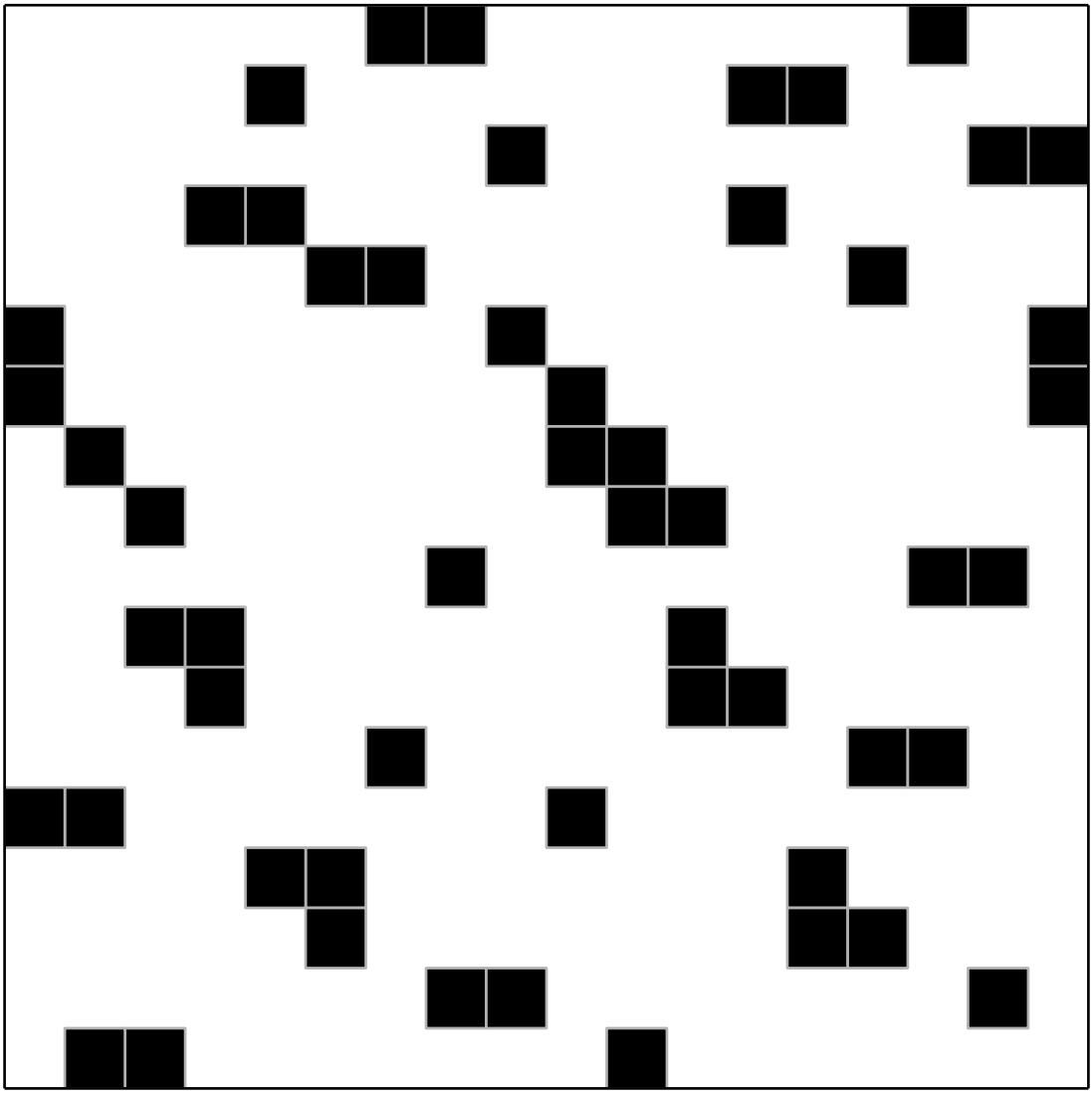
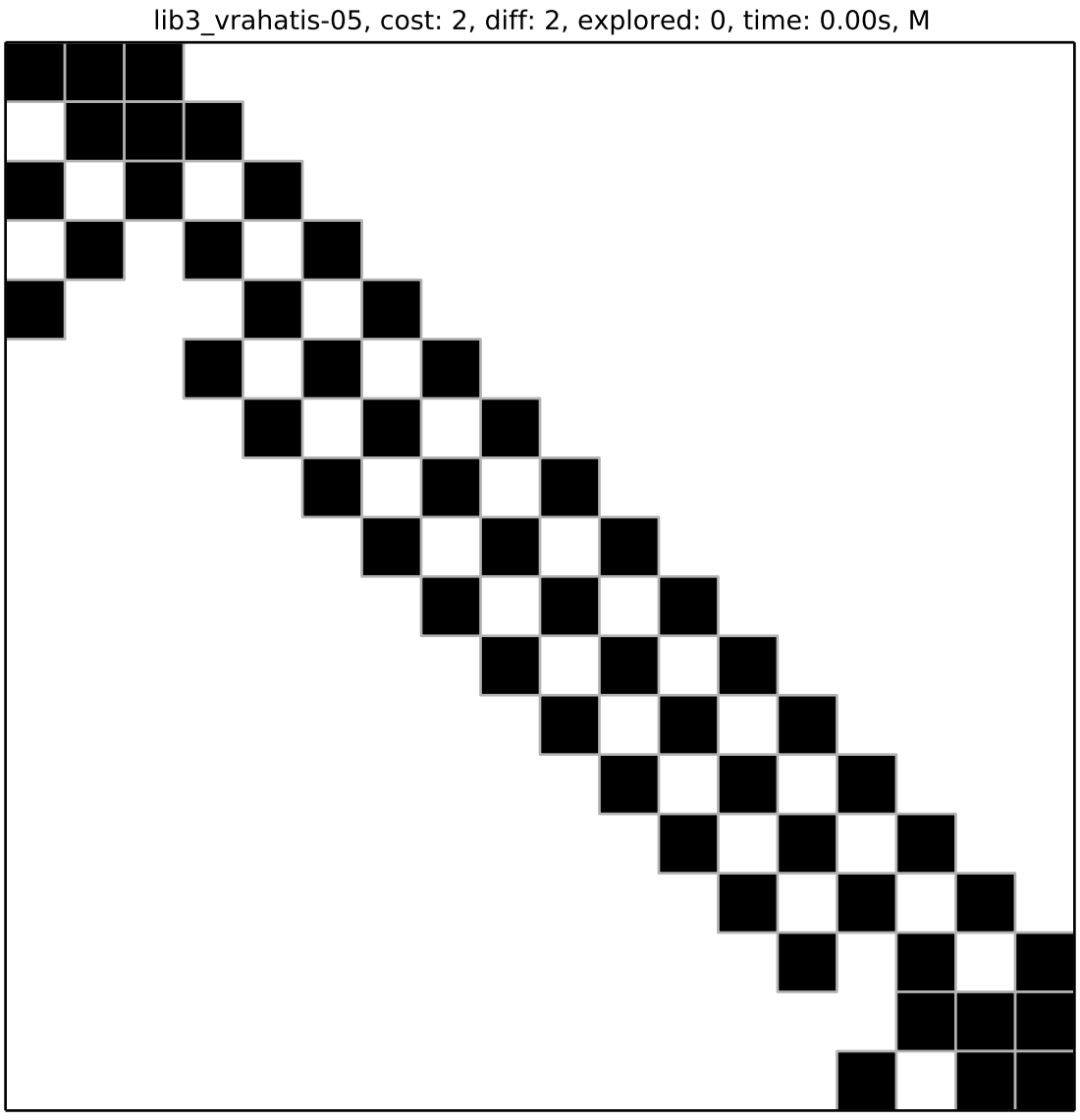
lib3_vrahatis-05 18x18 (54) con: 9, var: 9

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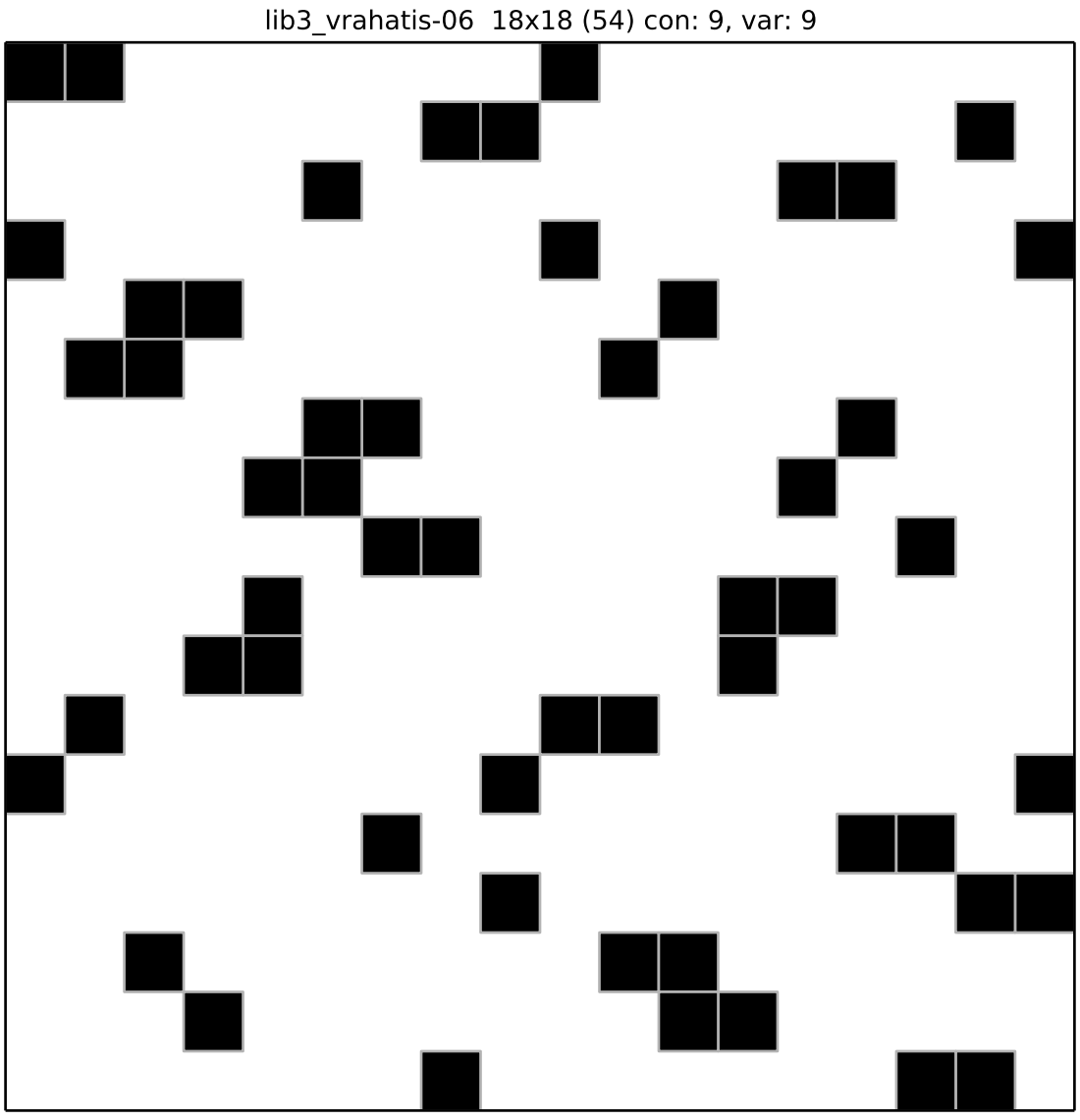
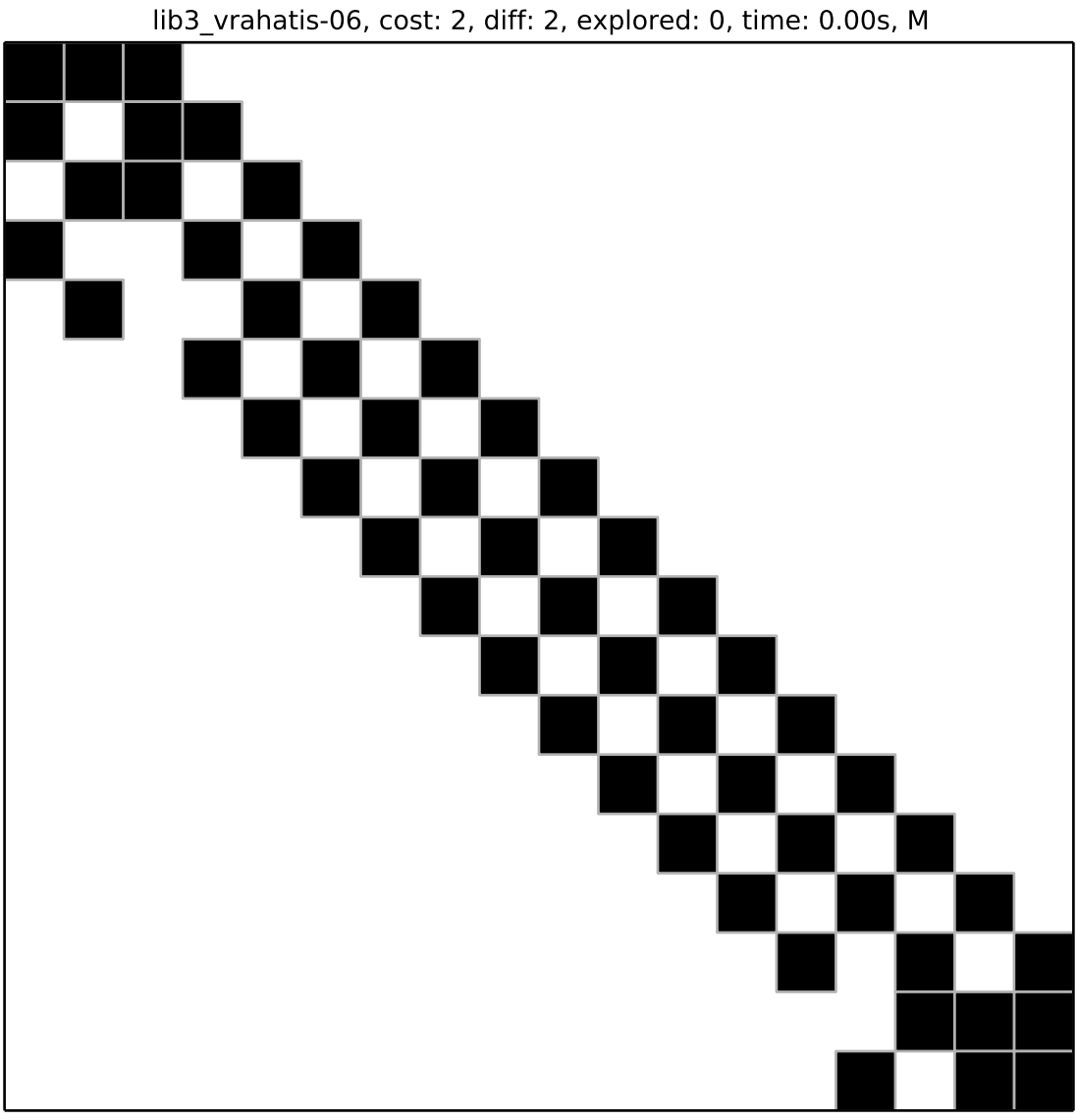

lib3_vrahatis-06 18x18 (54) con: 9, var: 9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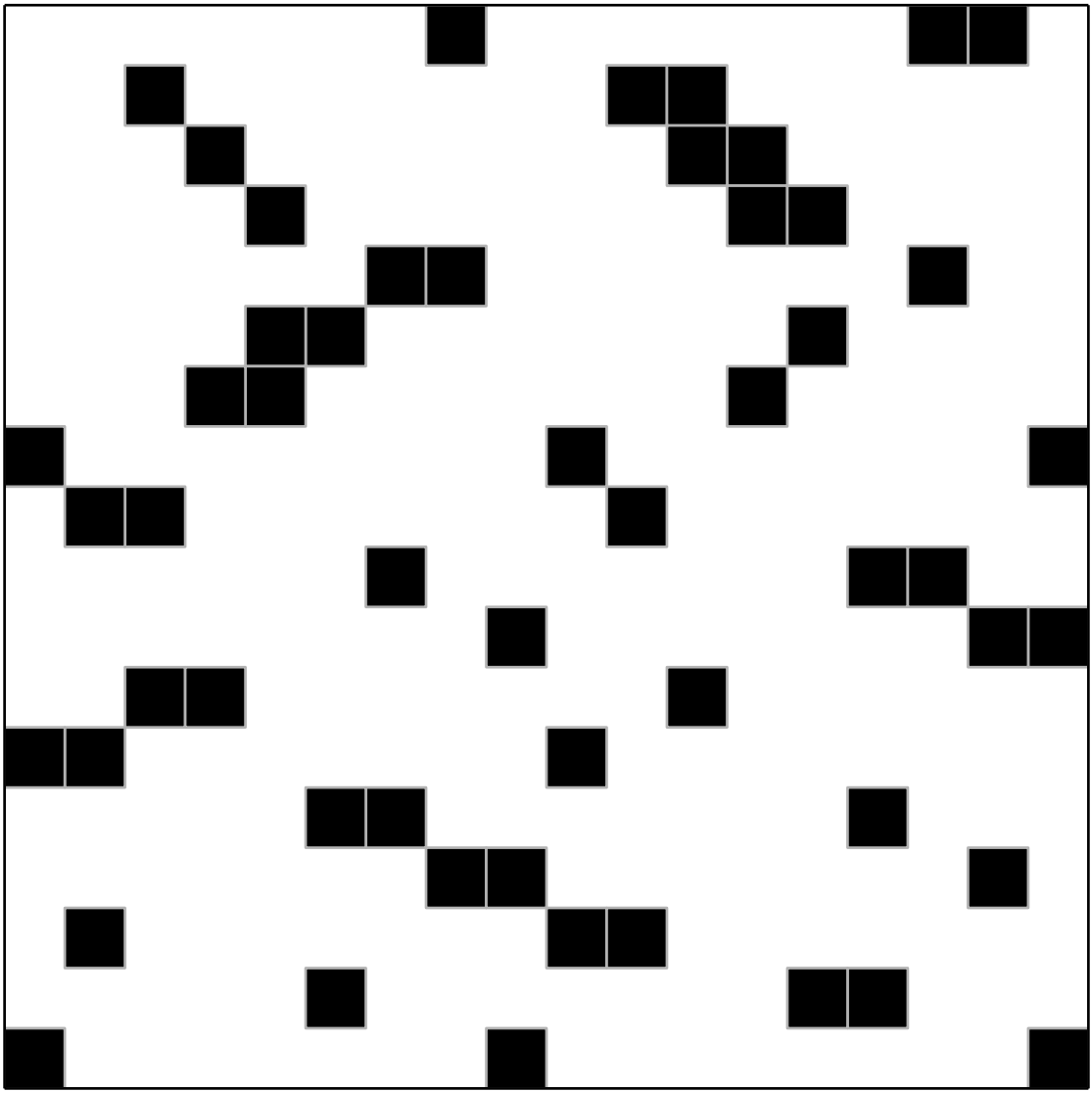
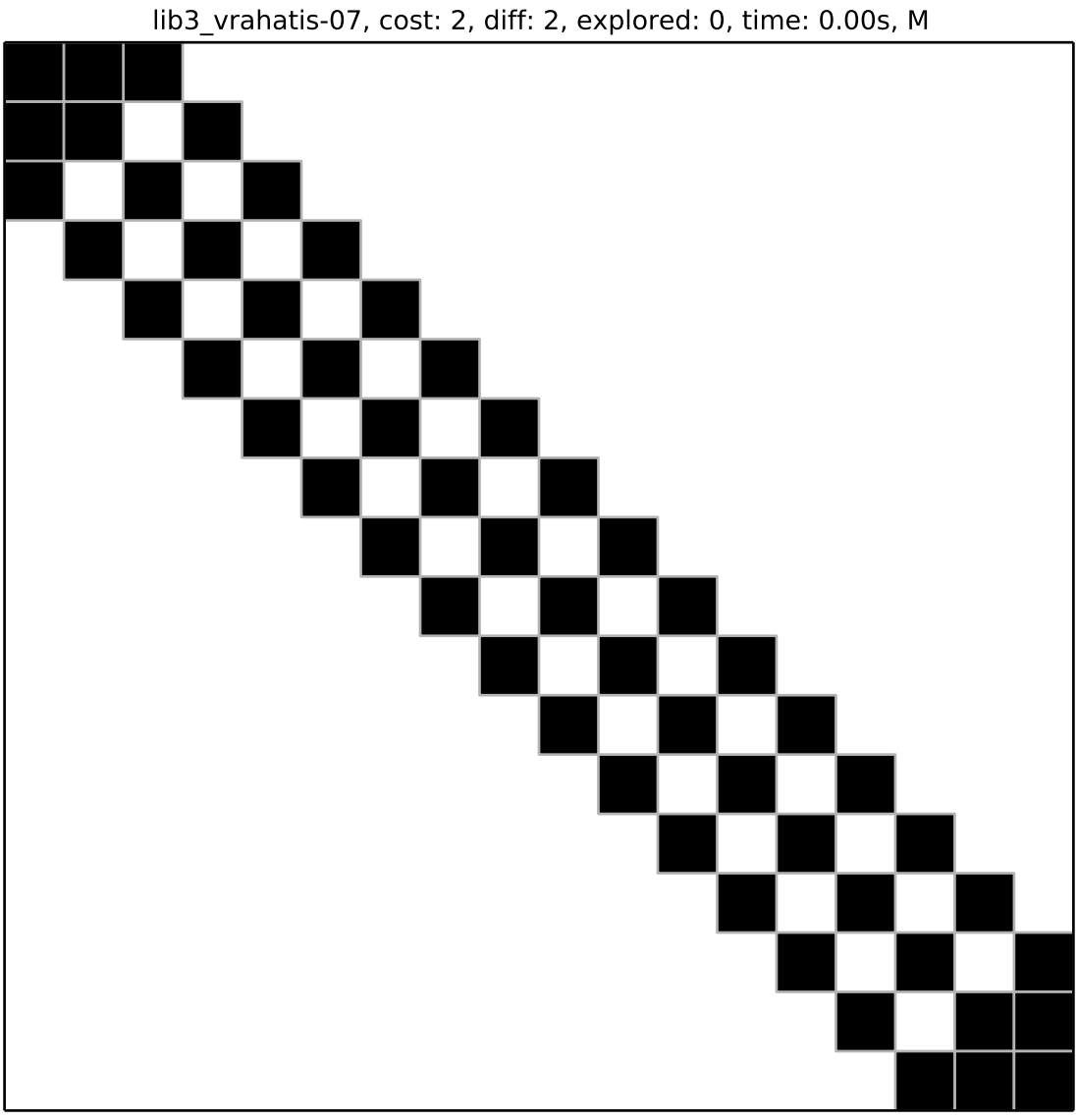
lib3_vrahatis-07 18x18 (54) con: 9, var: 9

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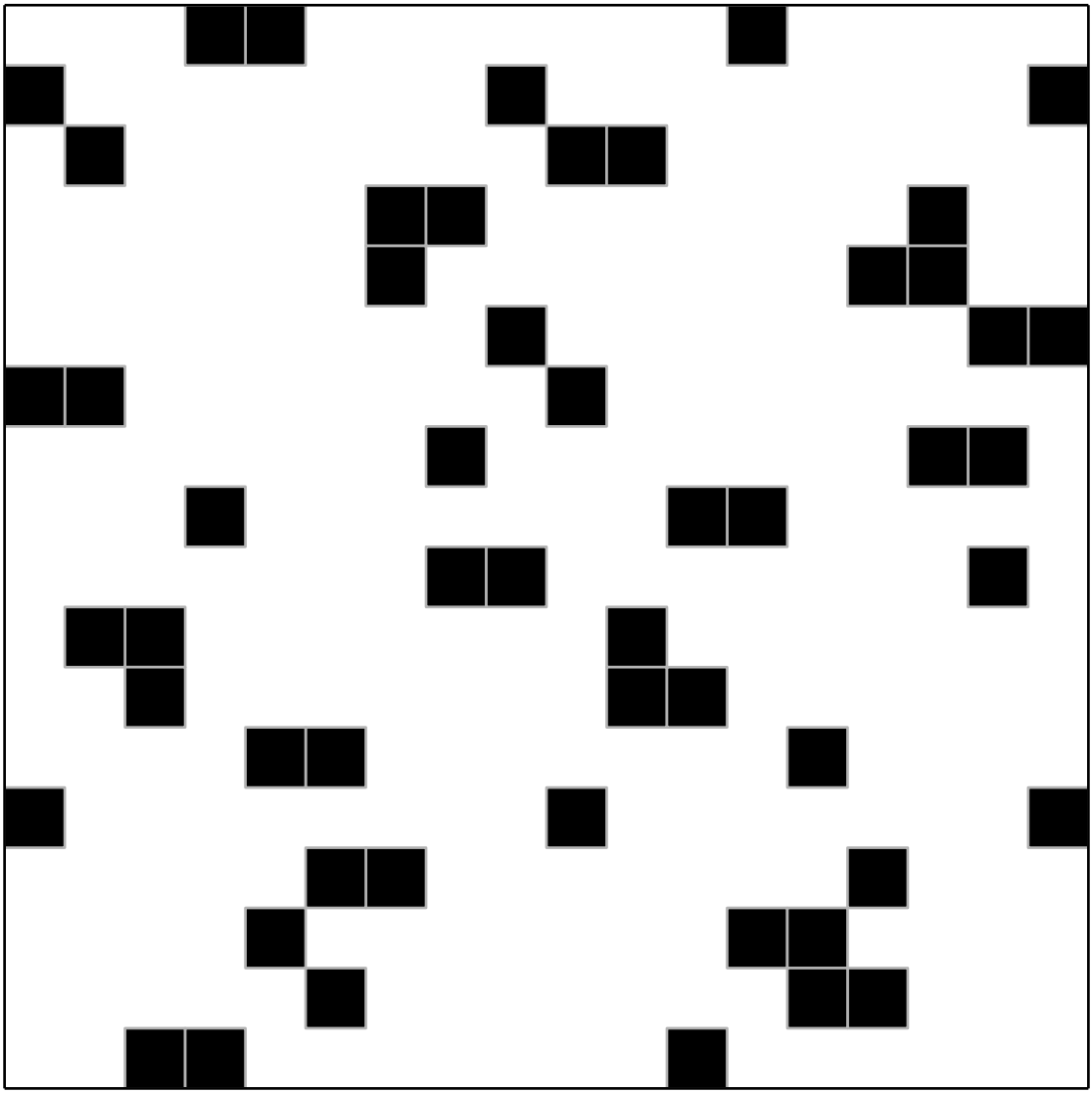
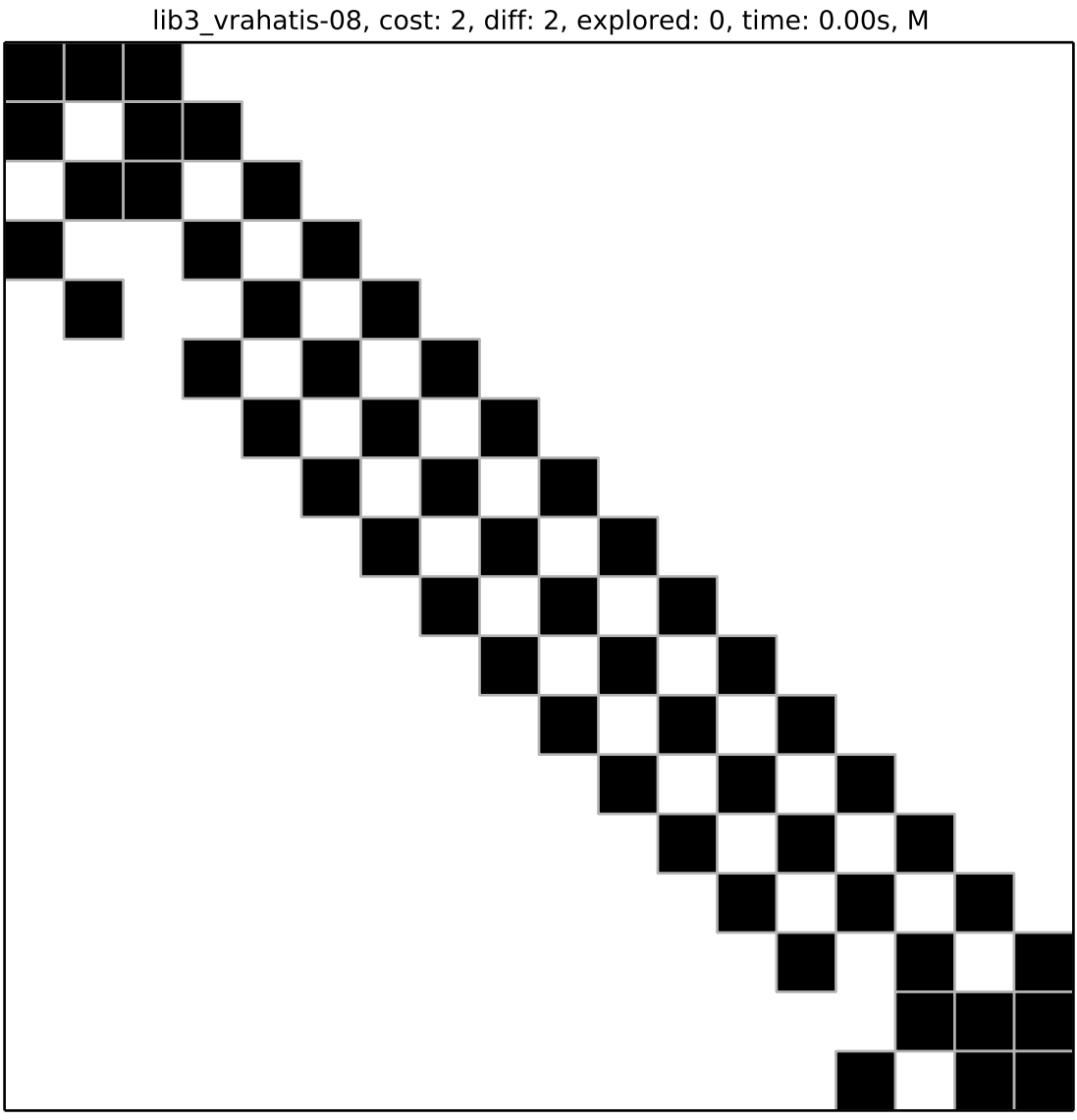
lib3_vrahatis-08 18x18 (54) con: 9, var: 9

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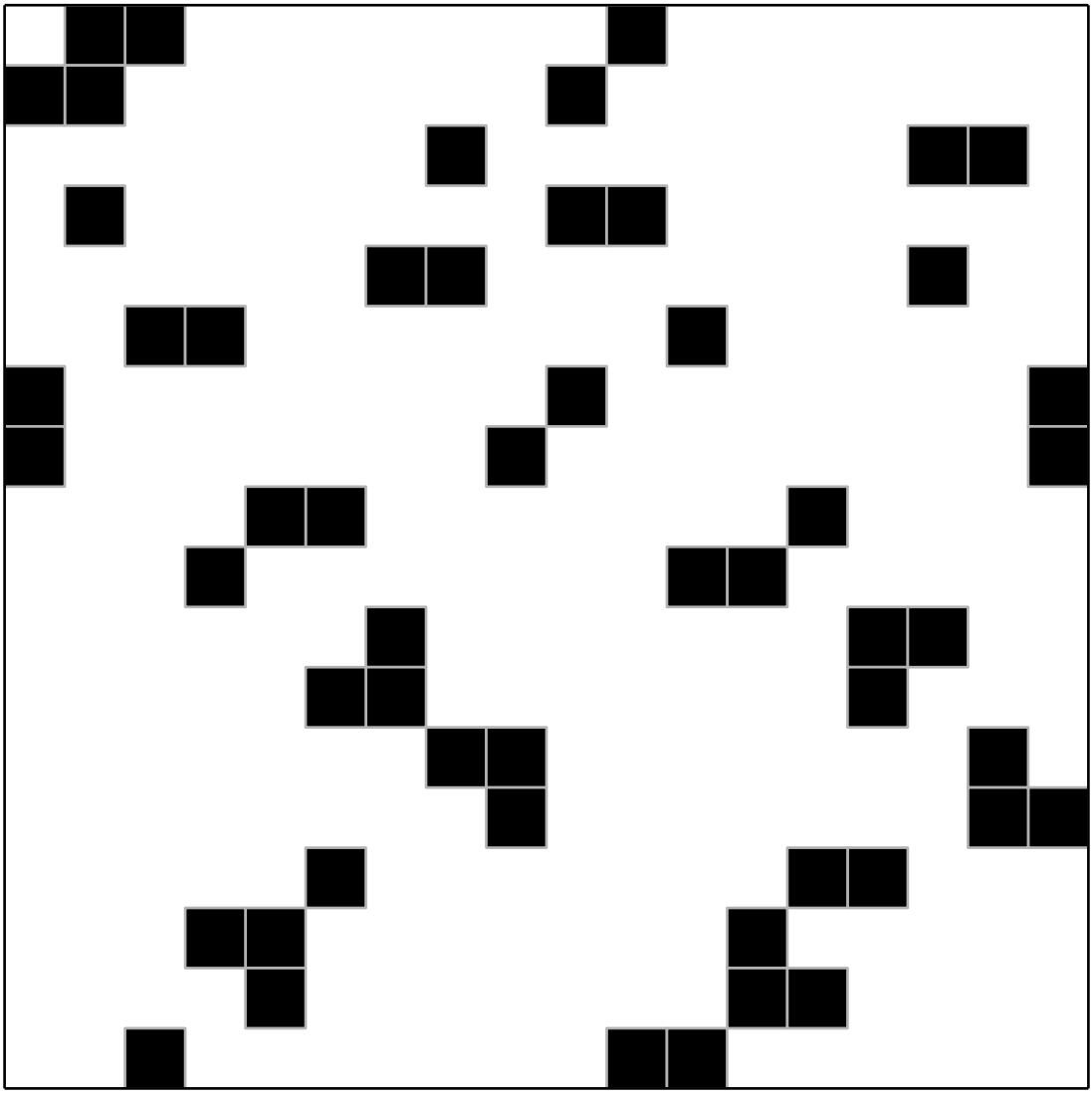
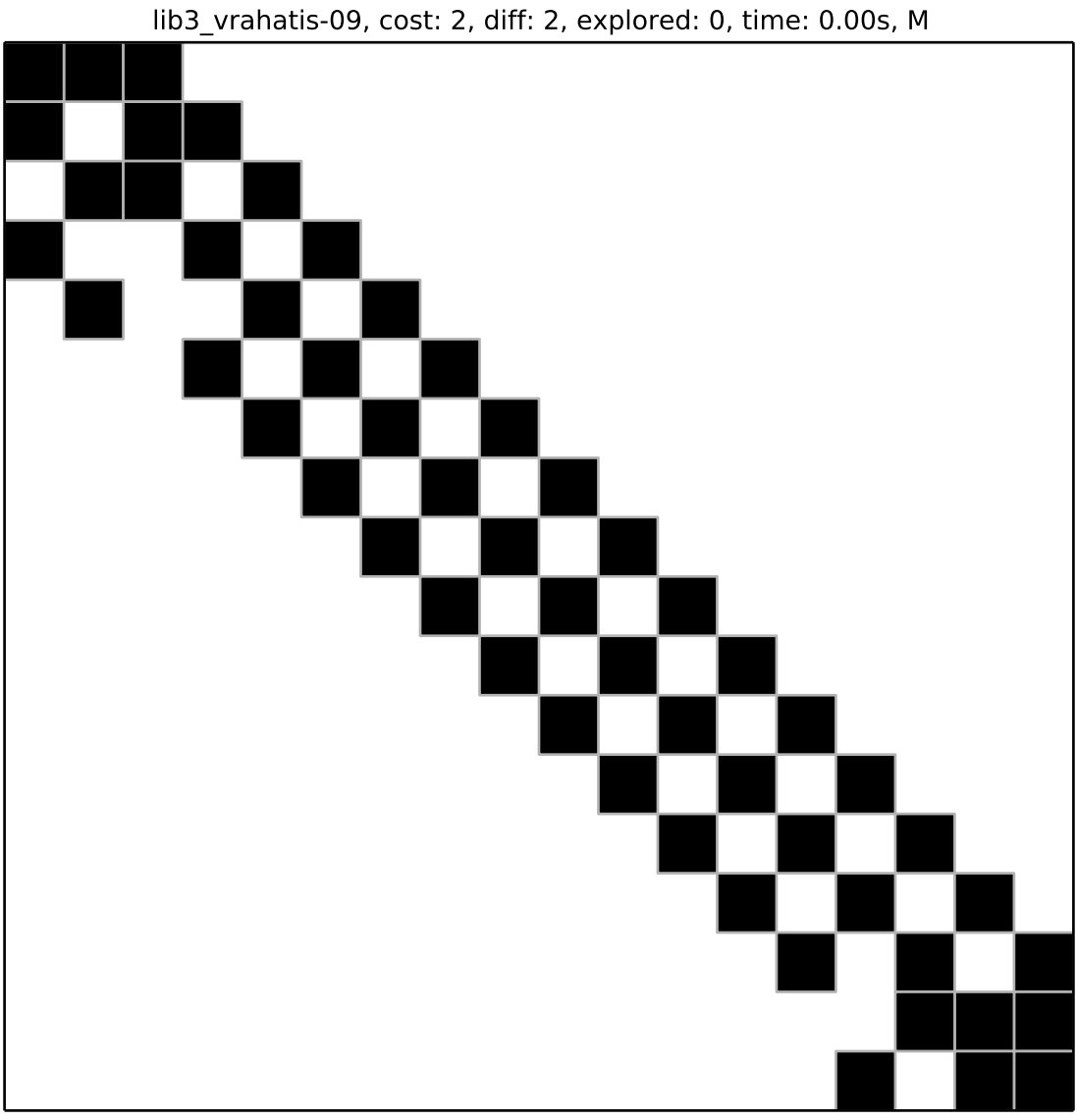
lib3_vrahatis-09 18x18 (54) con: 9, var: 9

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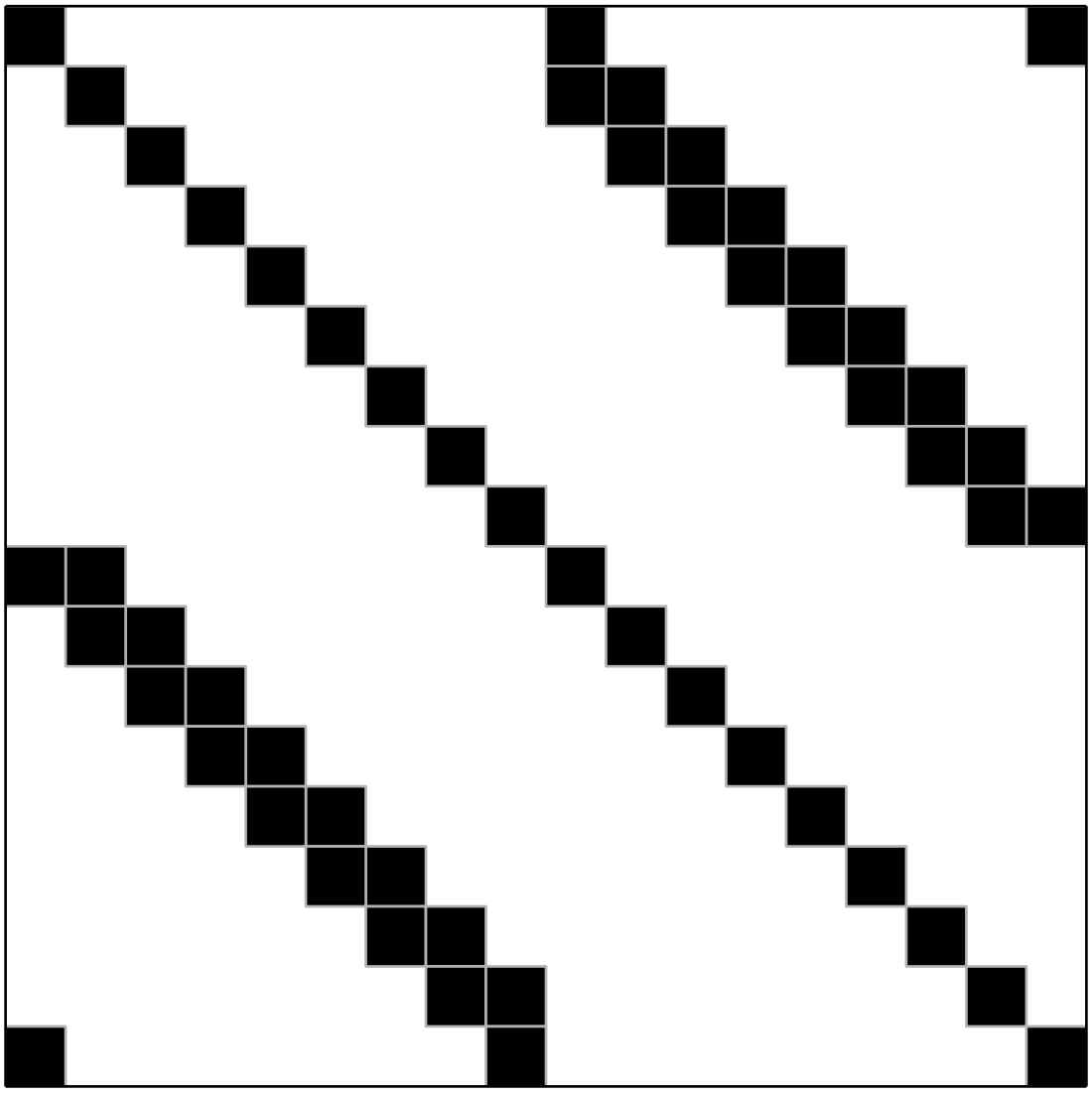
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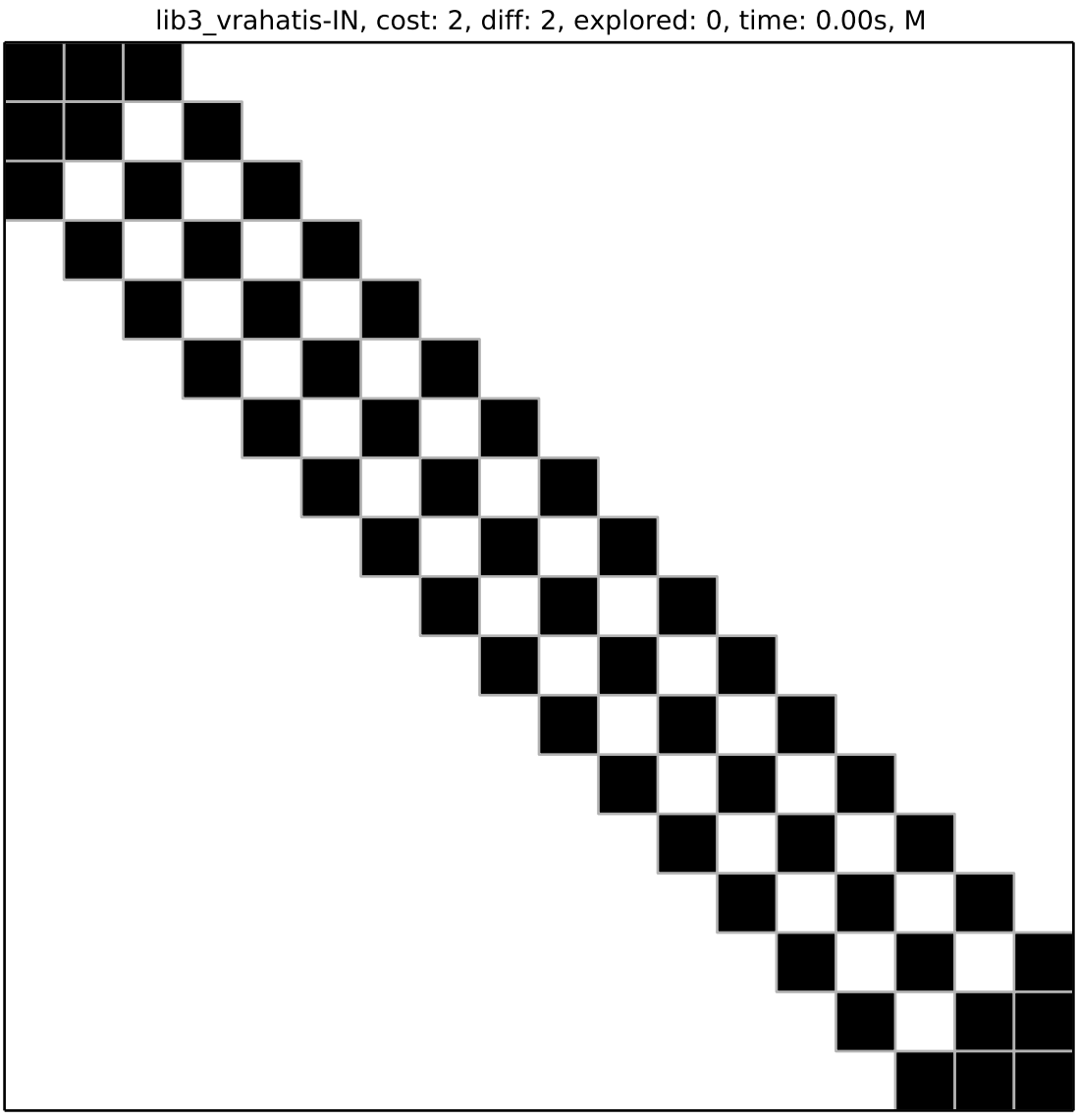
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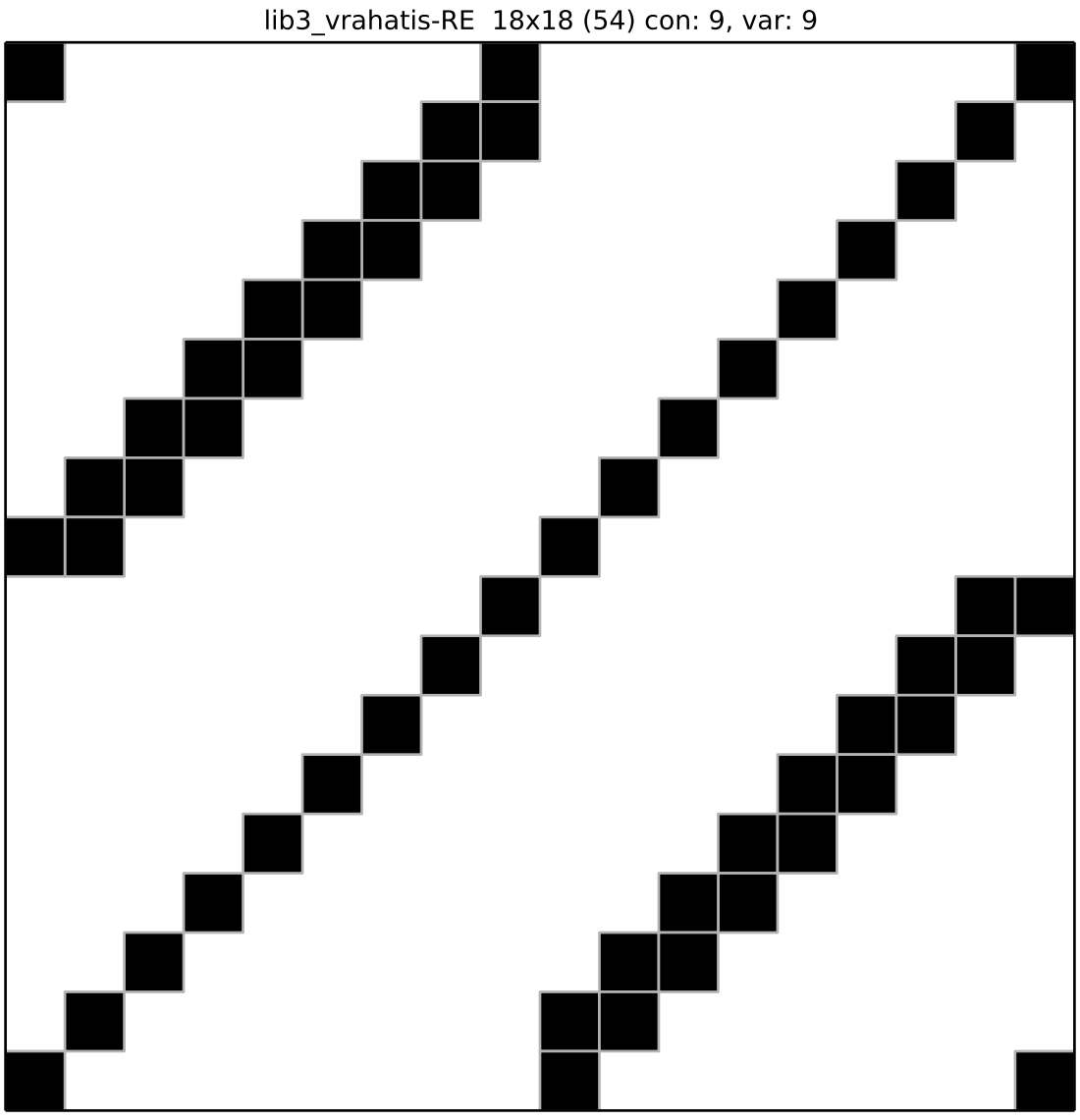
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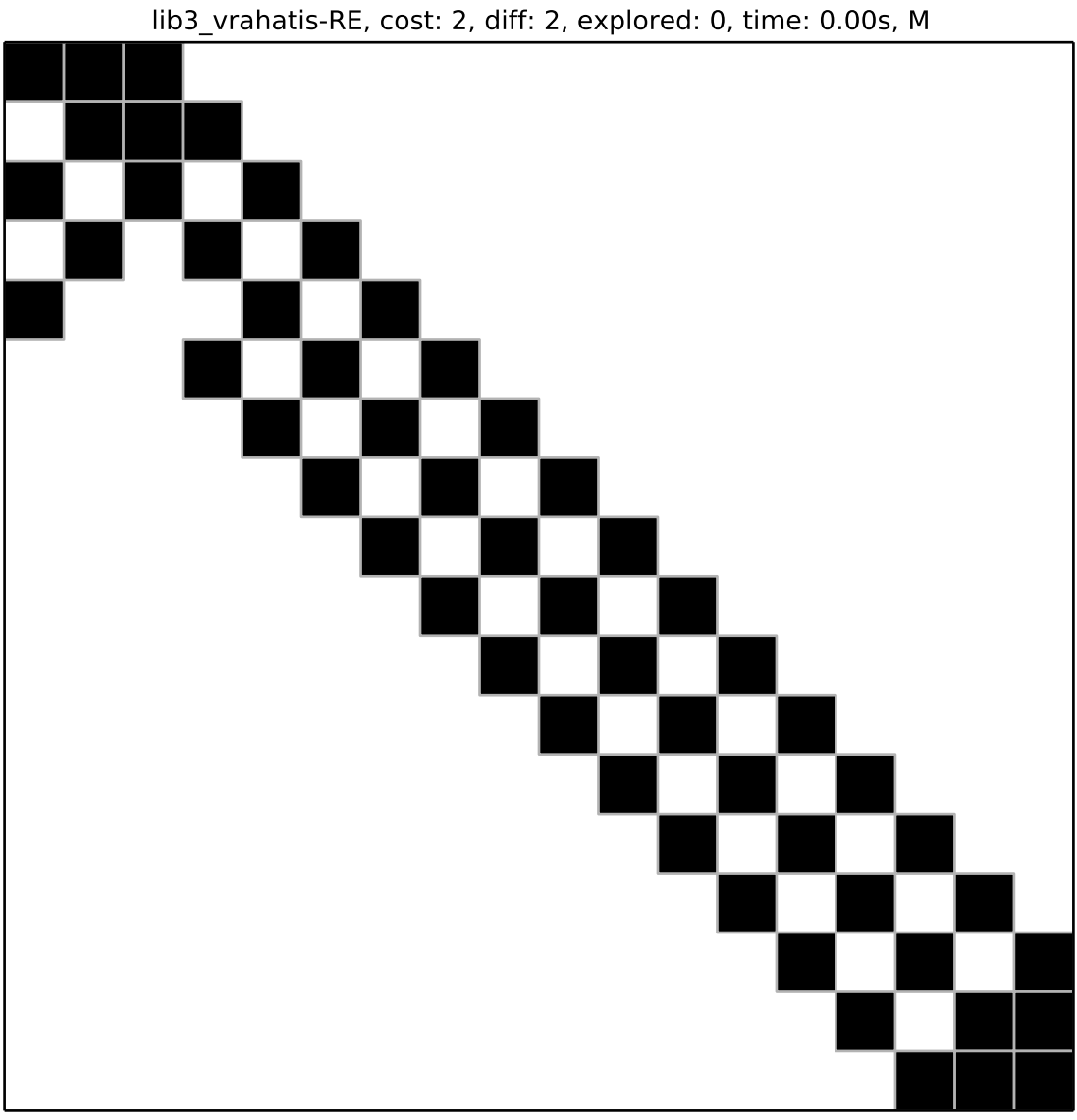
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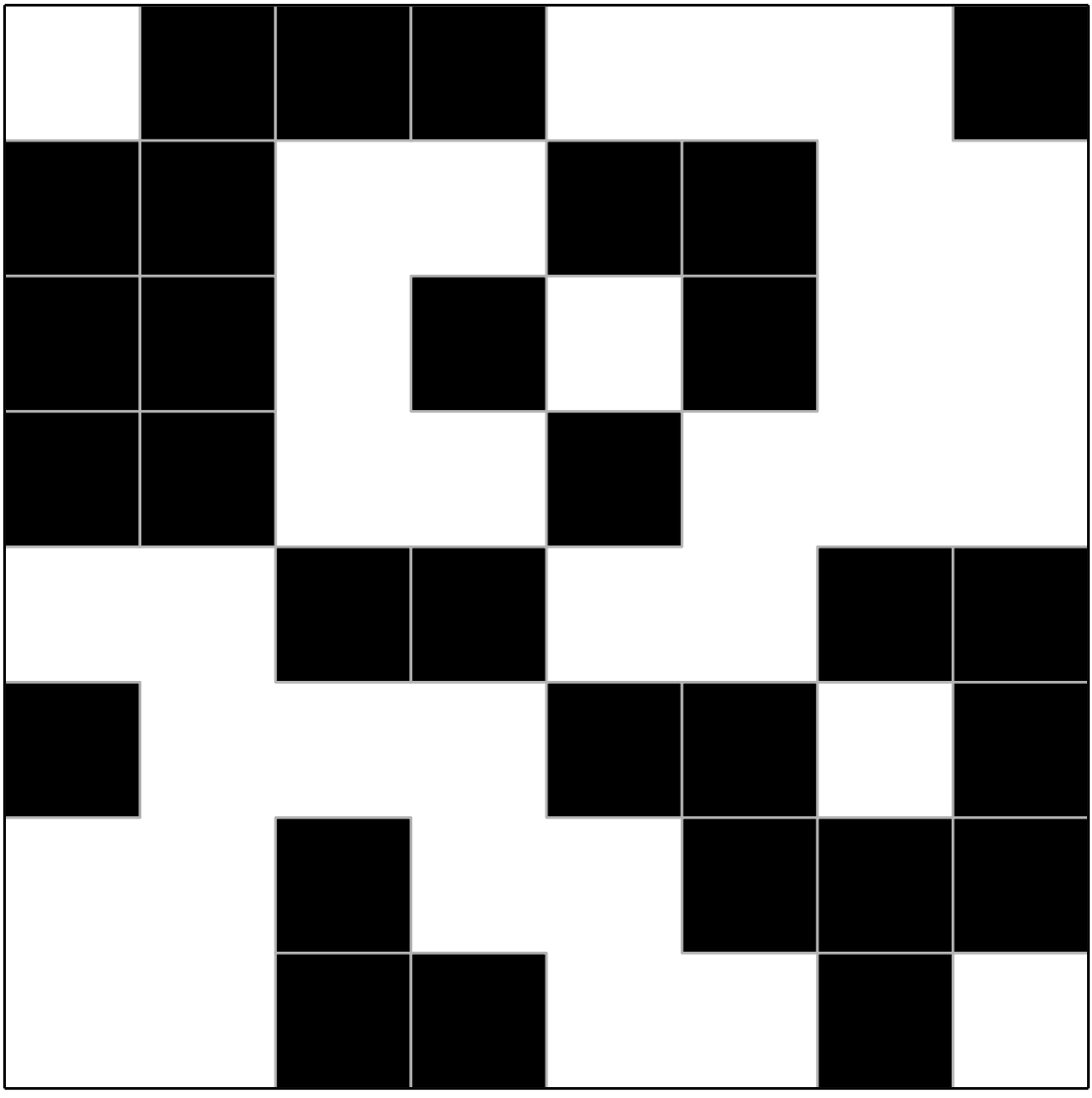
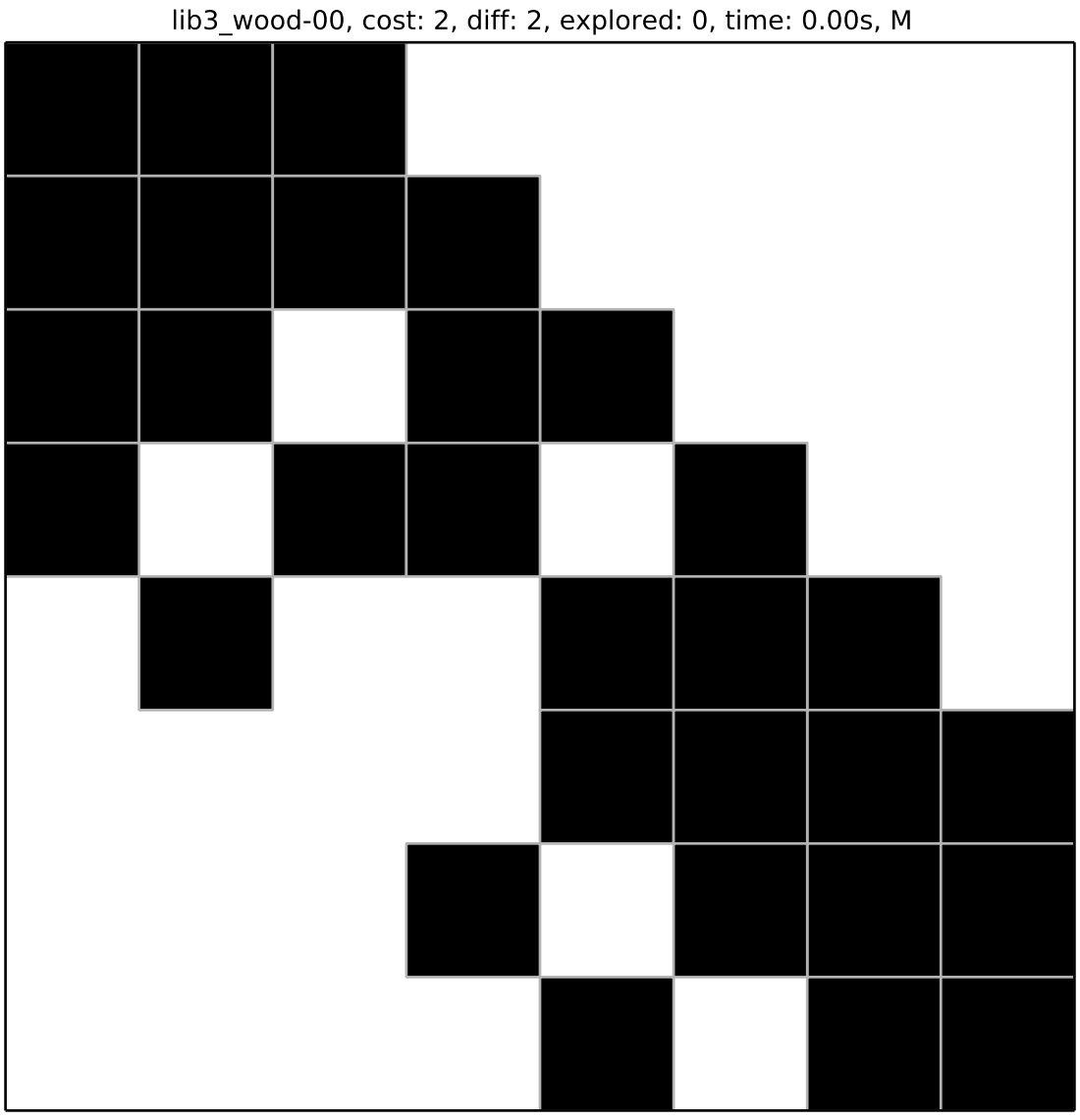
lib3_wood-00 8x8 (30) con: 4, var: 4

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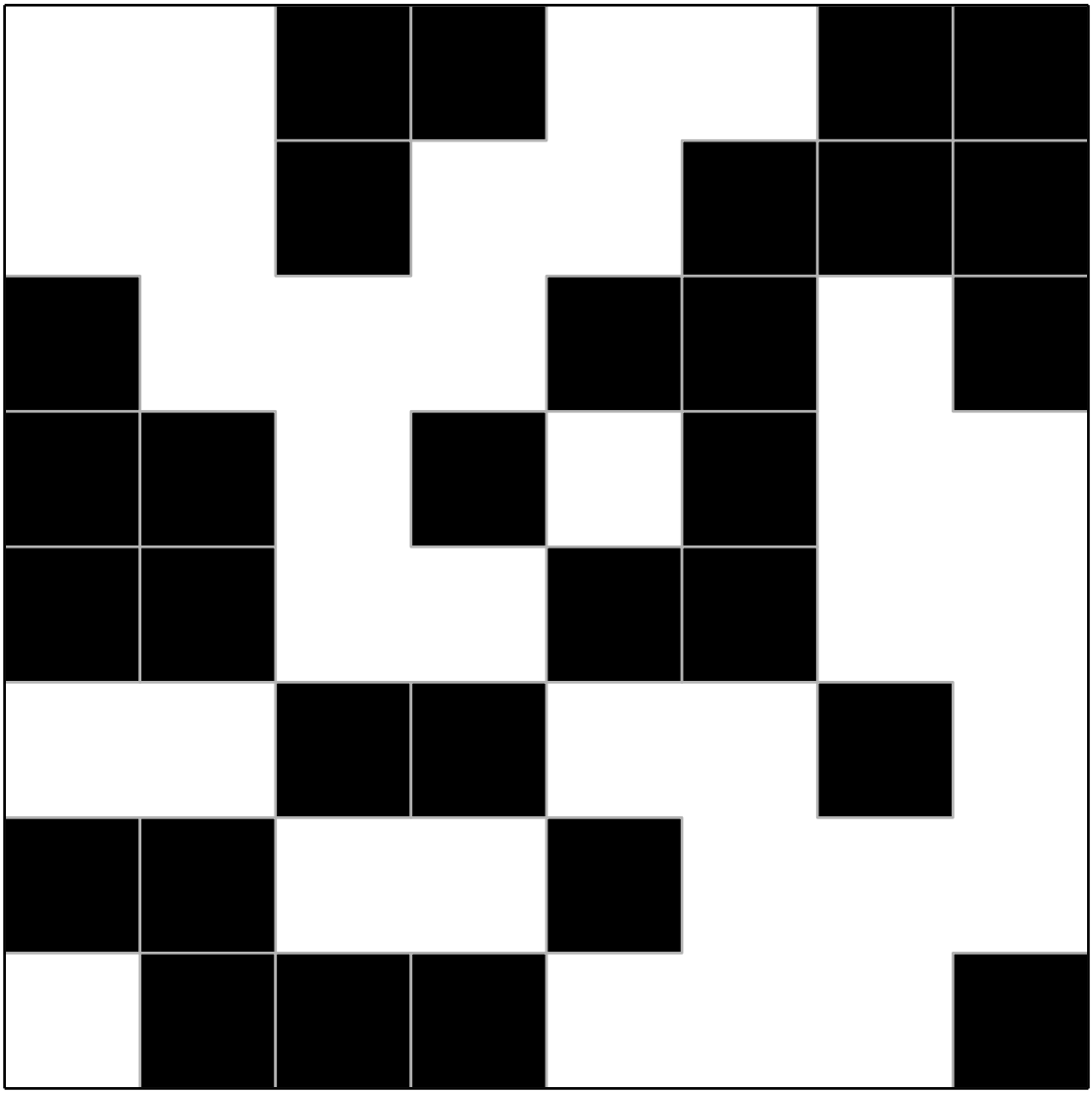
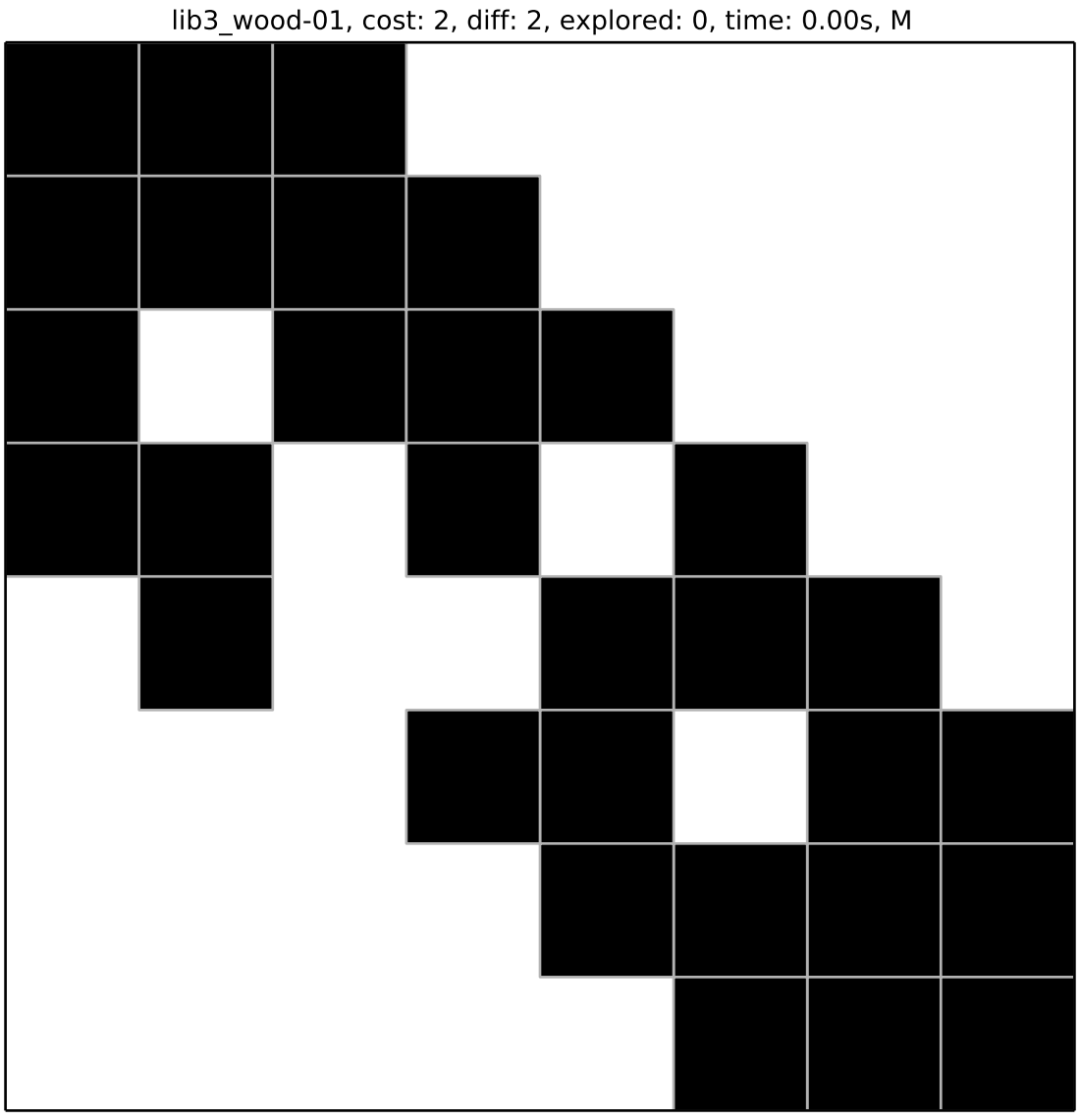
lib3_wood-01 8x8 (30) con: 4, var: 4

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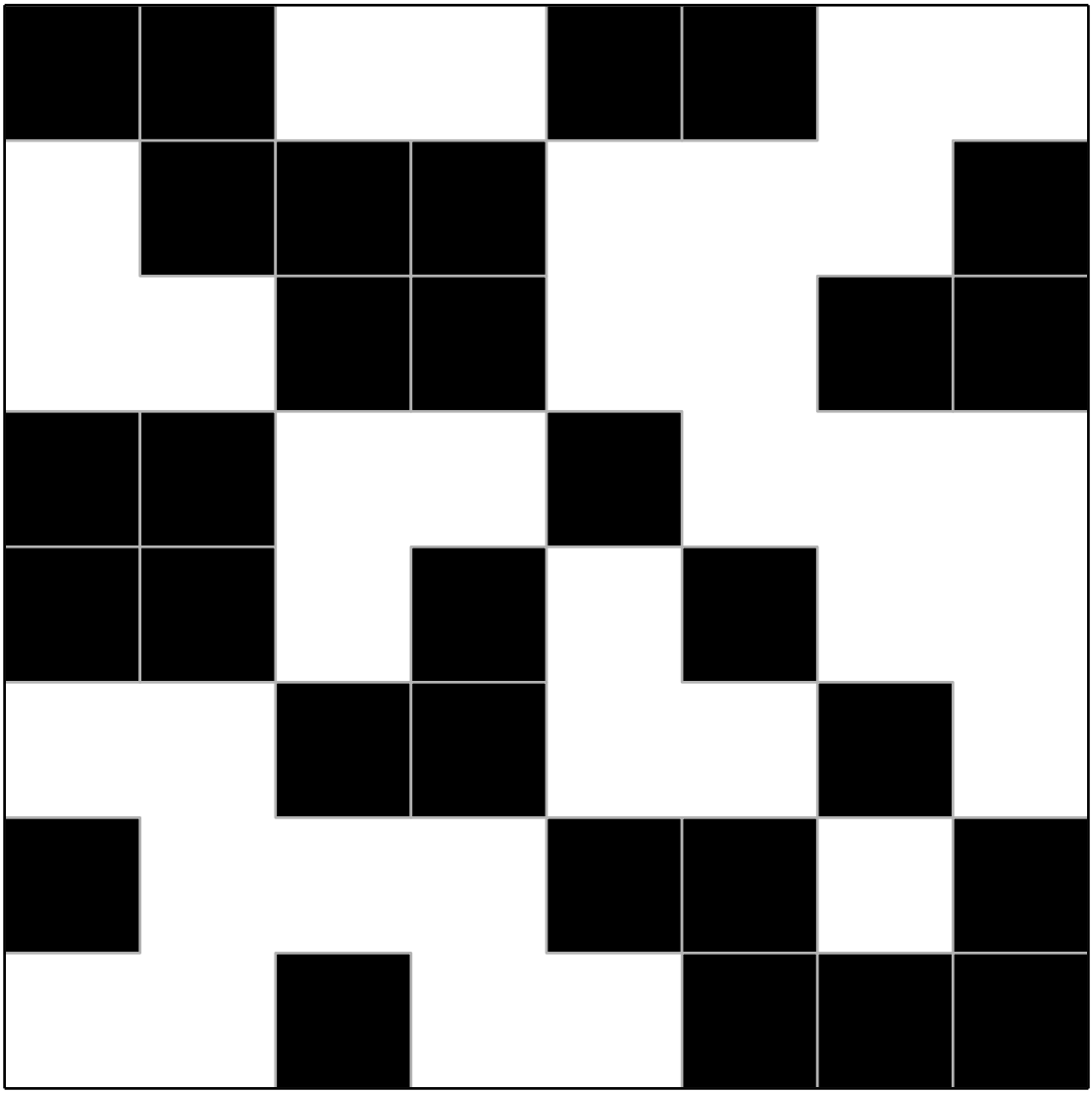
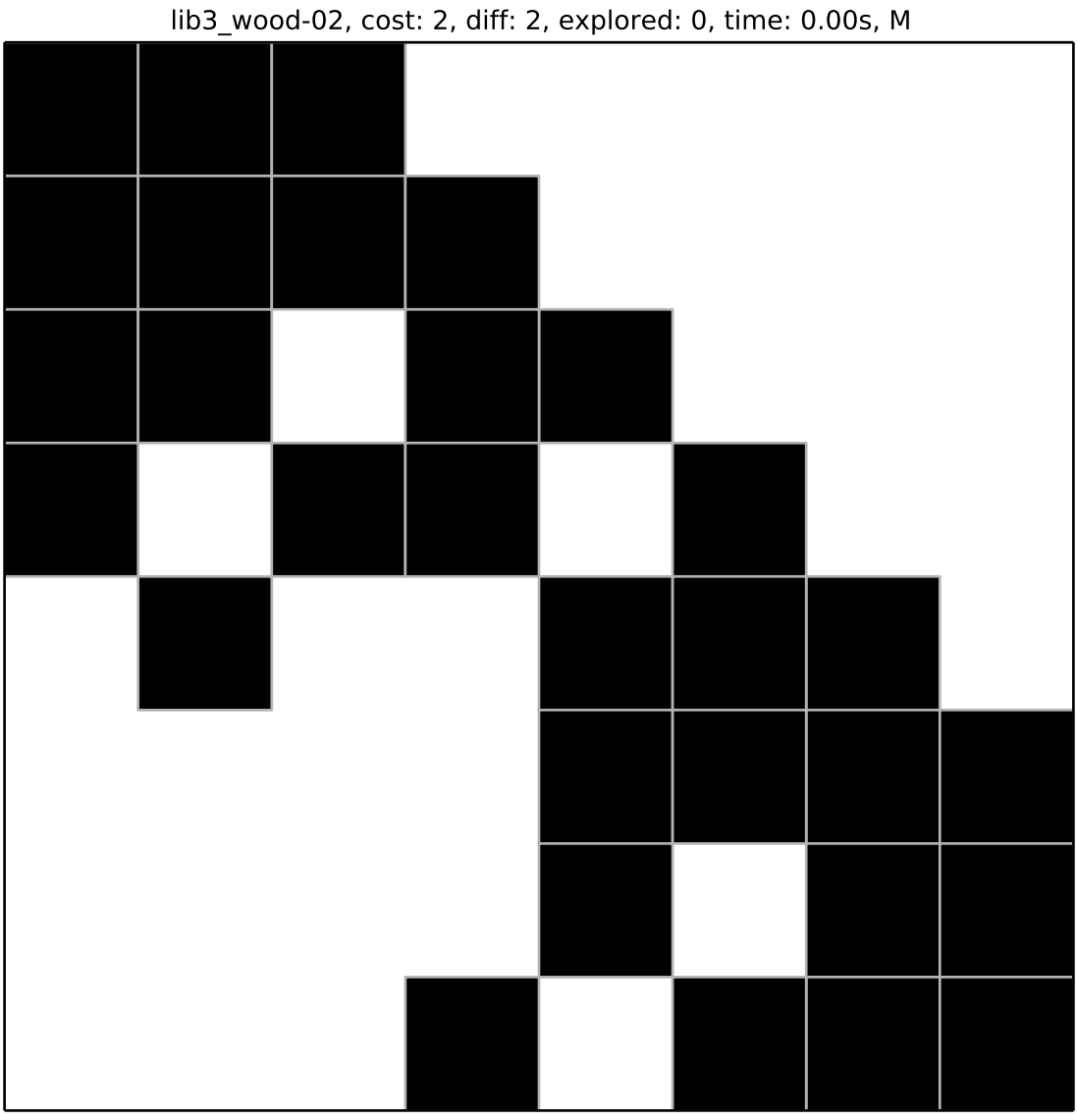
lib3_wood-02 8x8 (30) con: 4, var: 4

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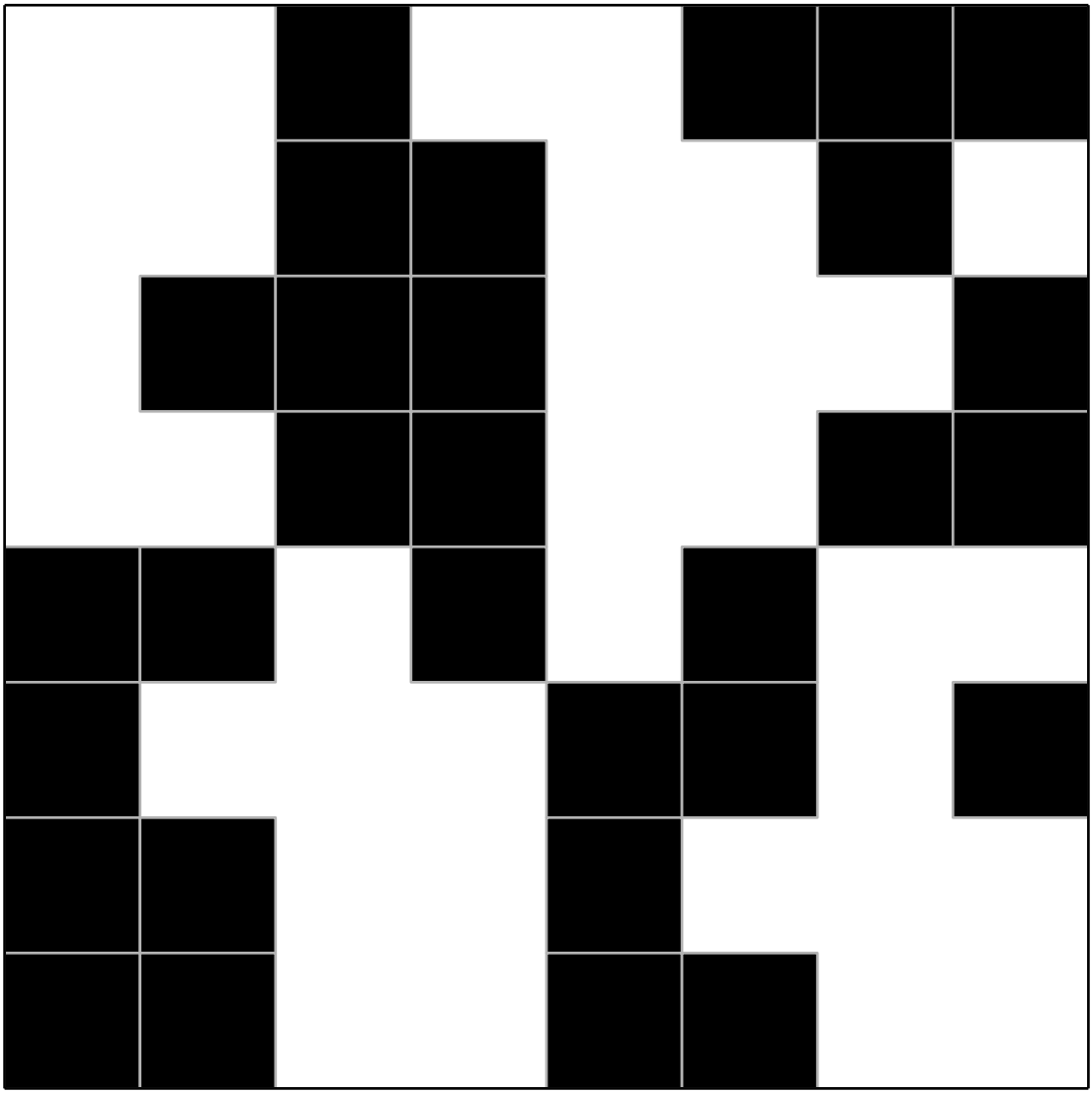
lib3_wood-03 8x8 (30) con: 4, var: 4



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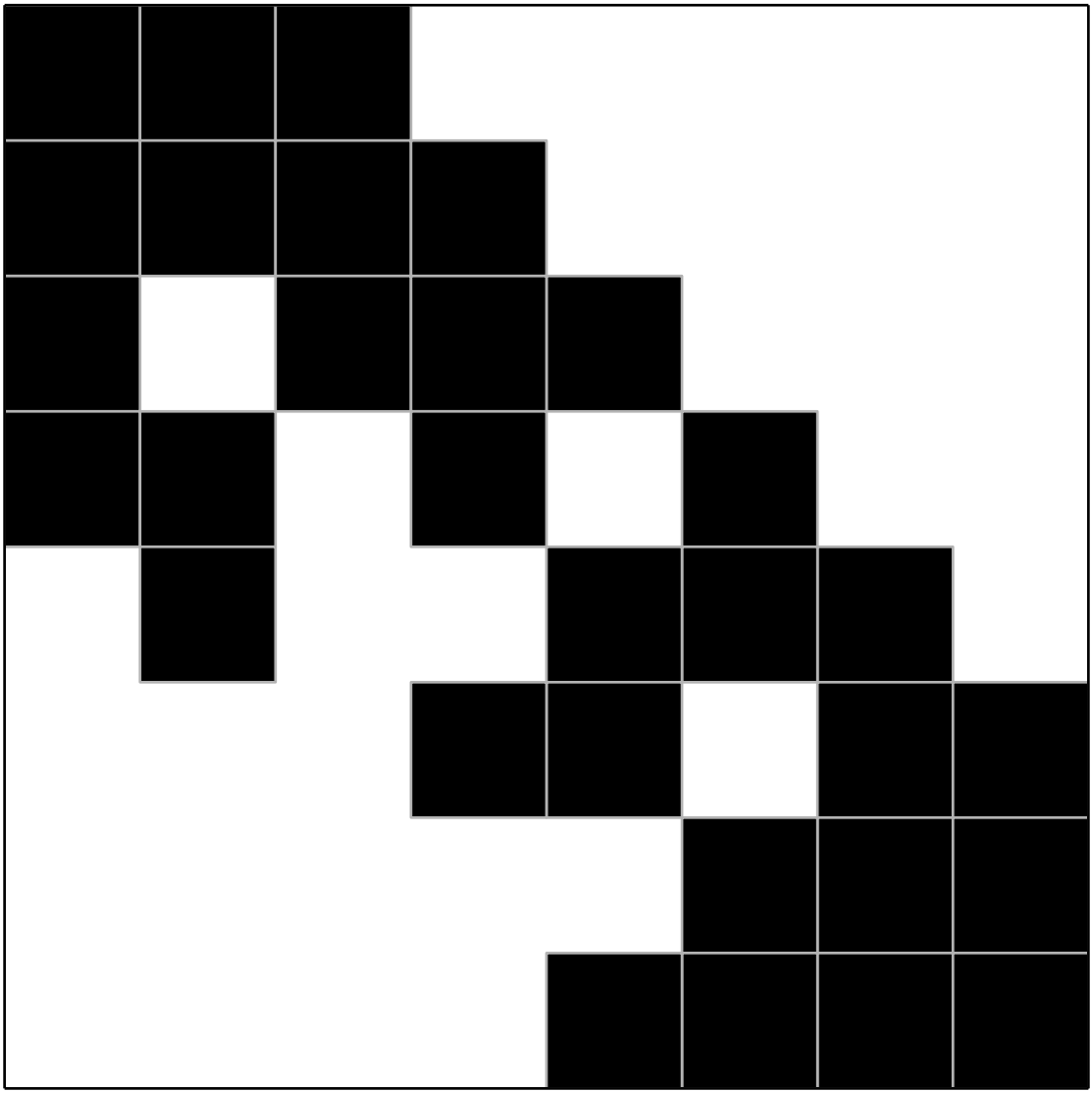
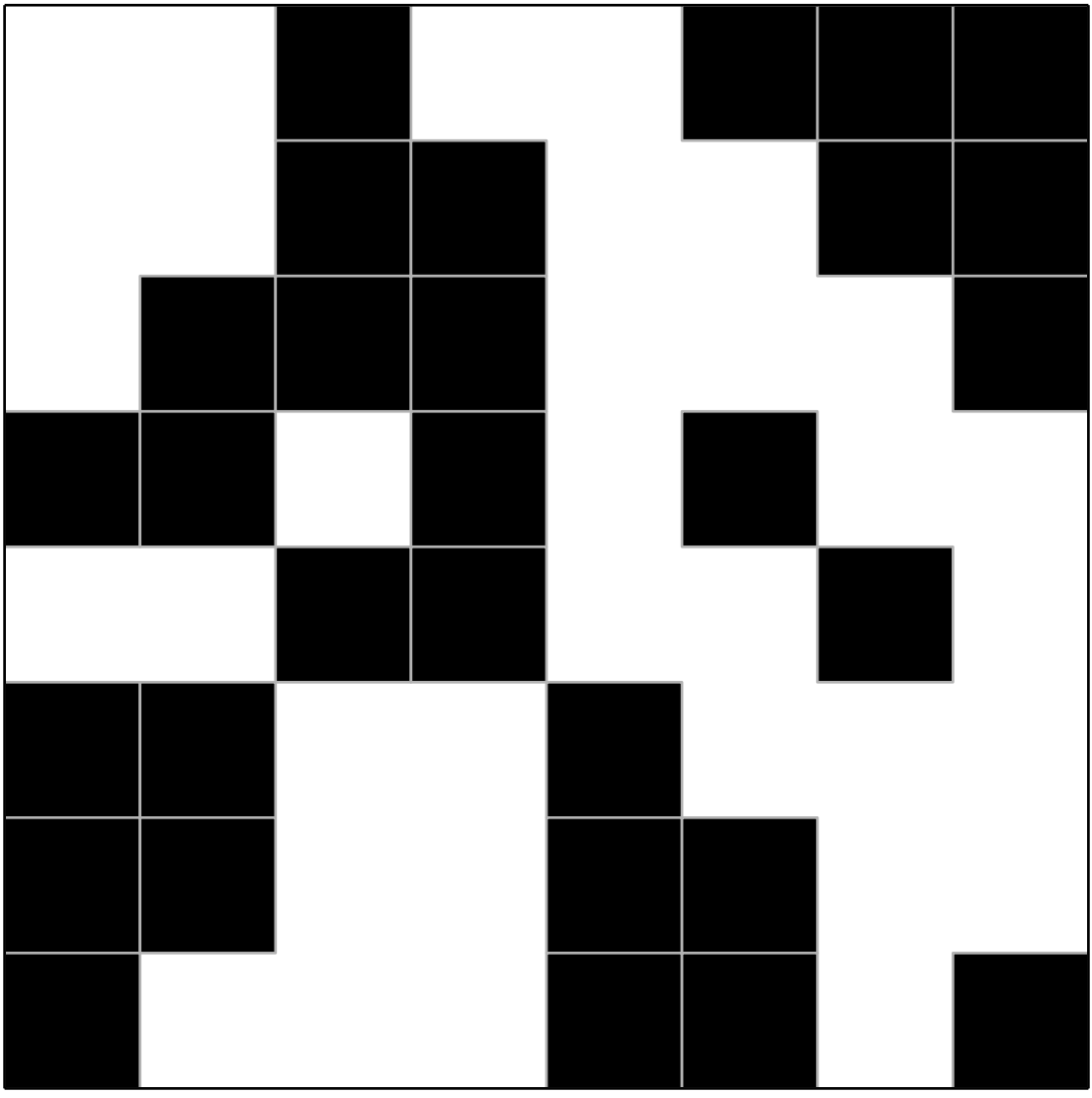
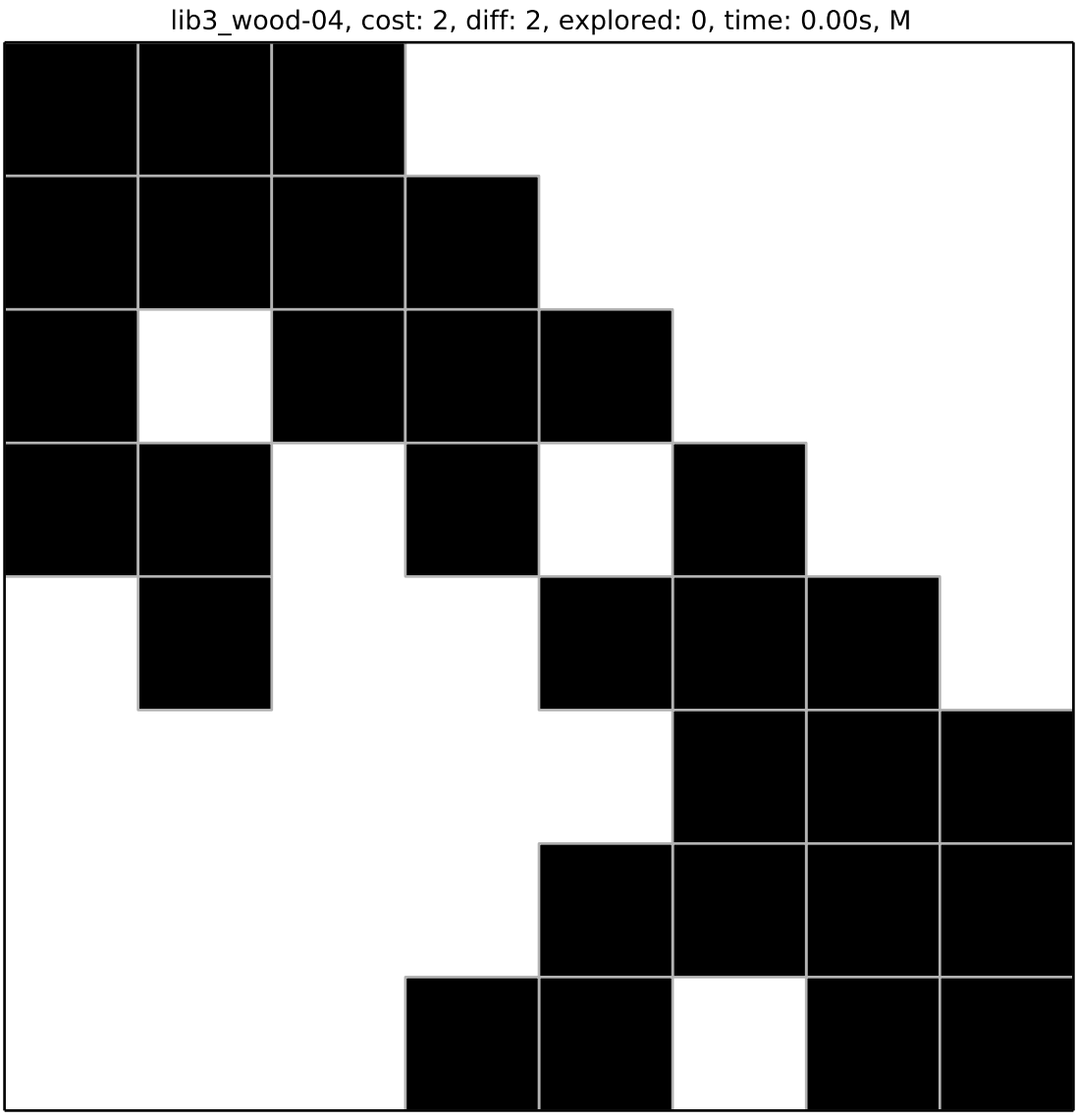


lib3_wood-04 8x8 (30) con: 4, var: 4

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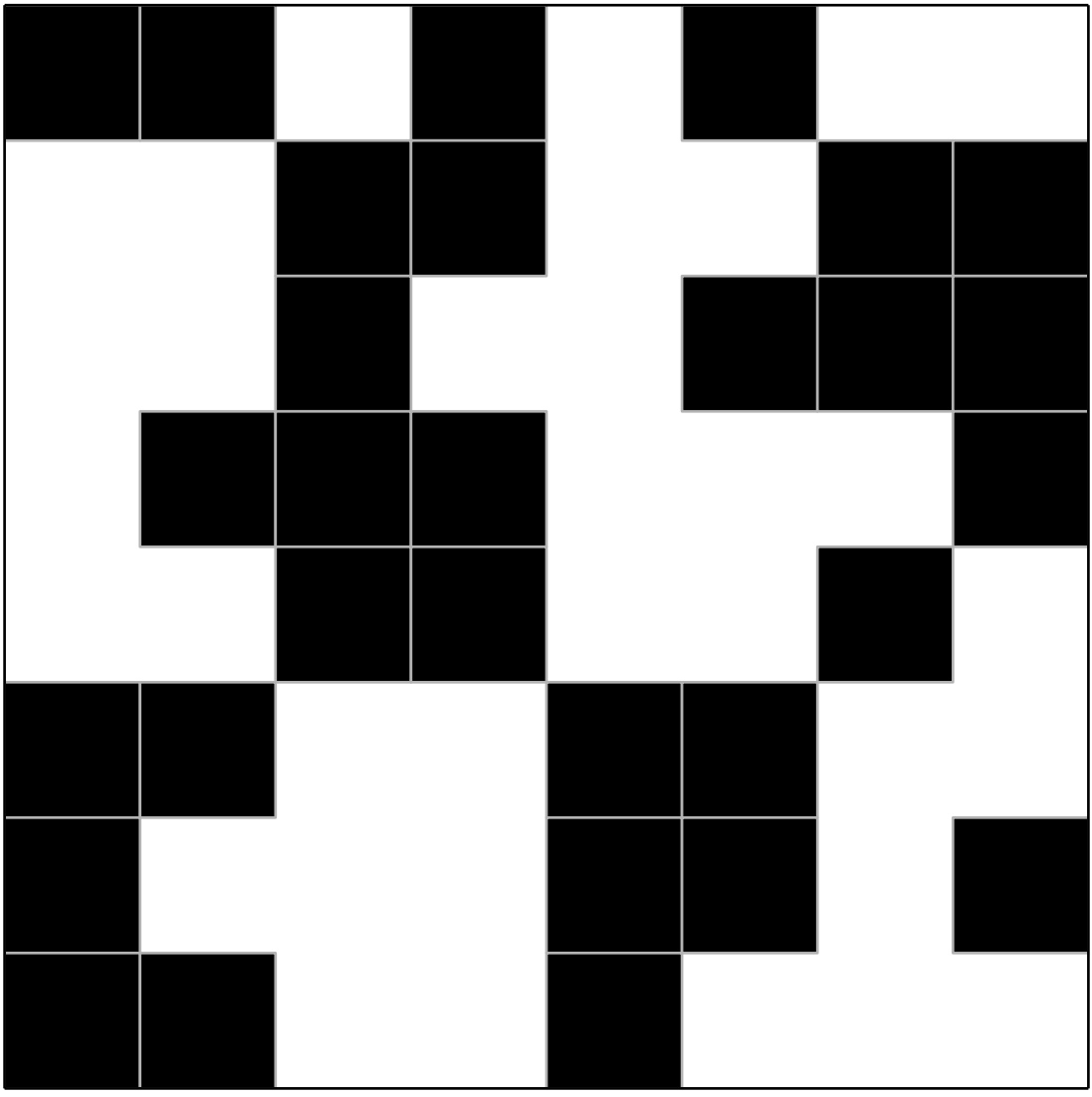
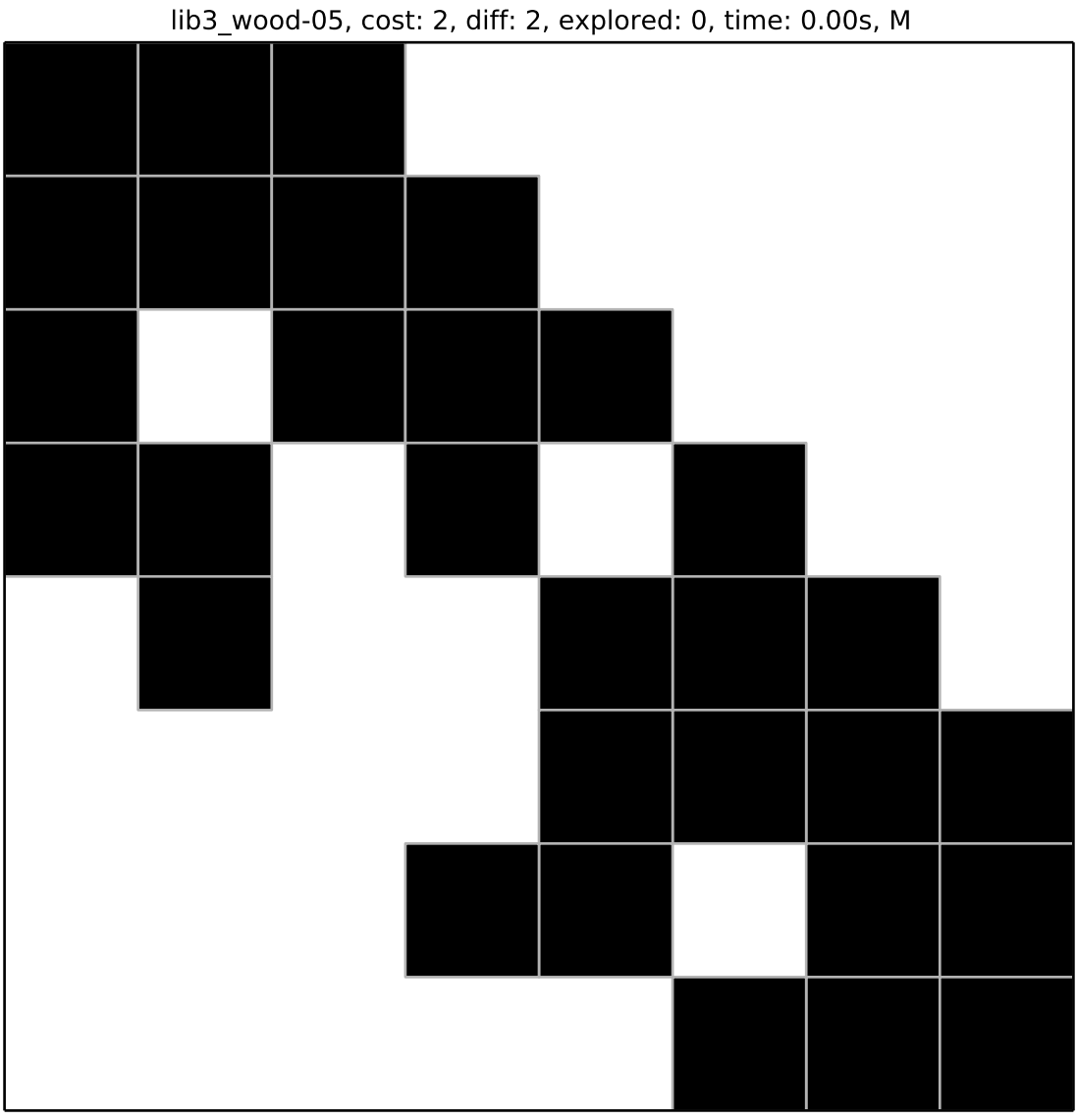
lib3_wood-05 8x8 (30) con: 4, var: 4

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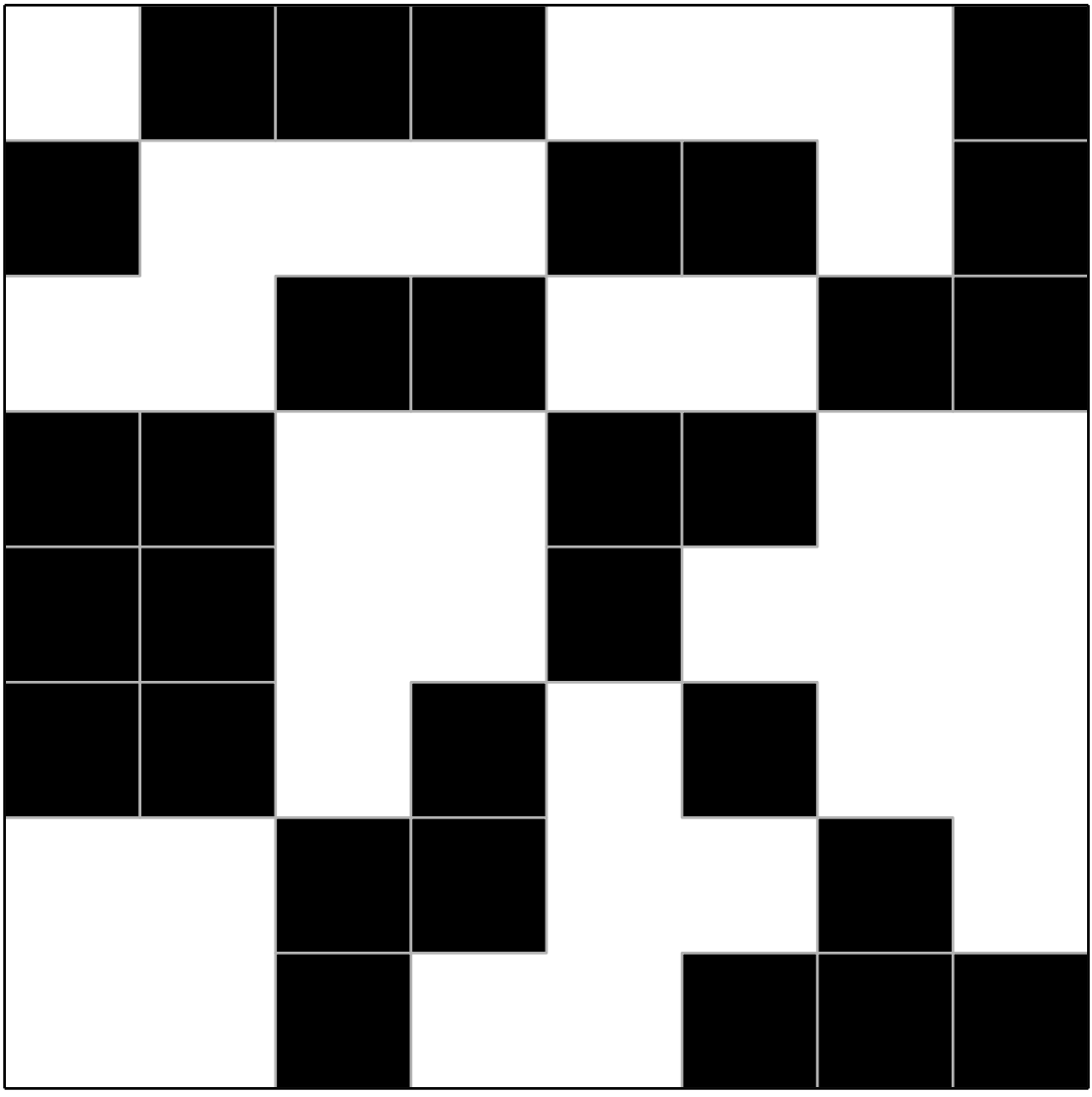

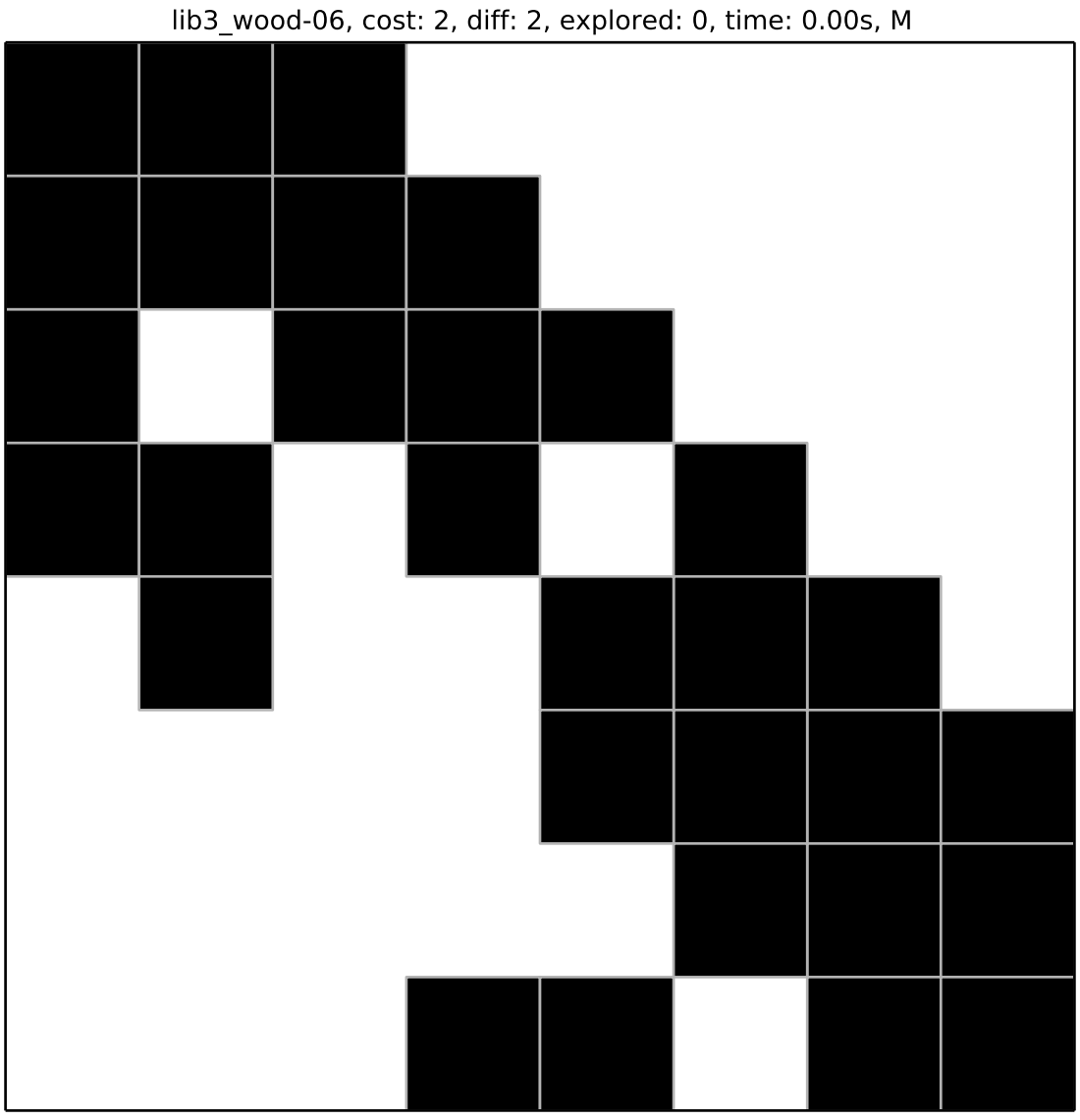
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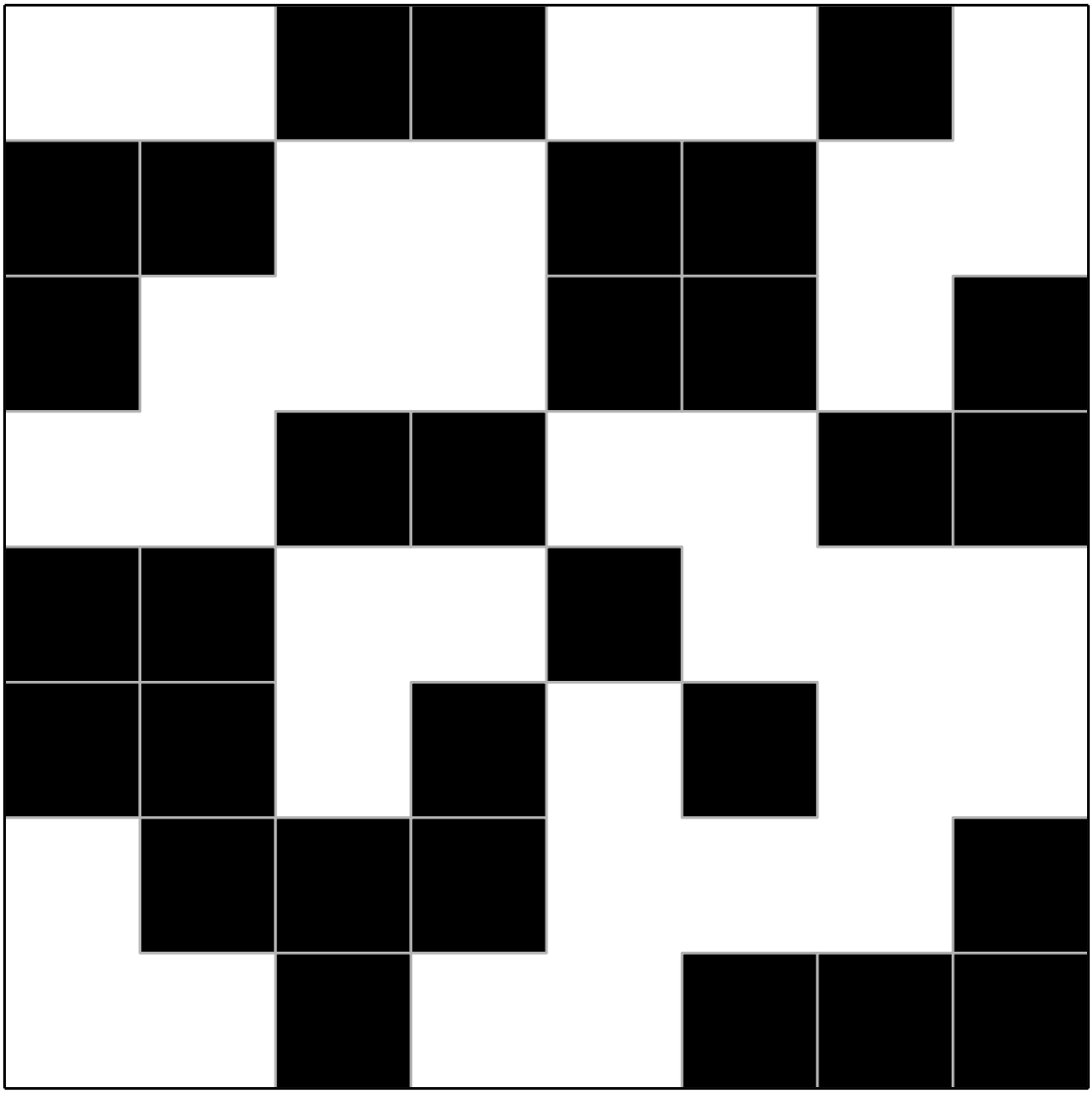
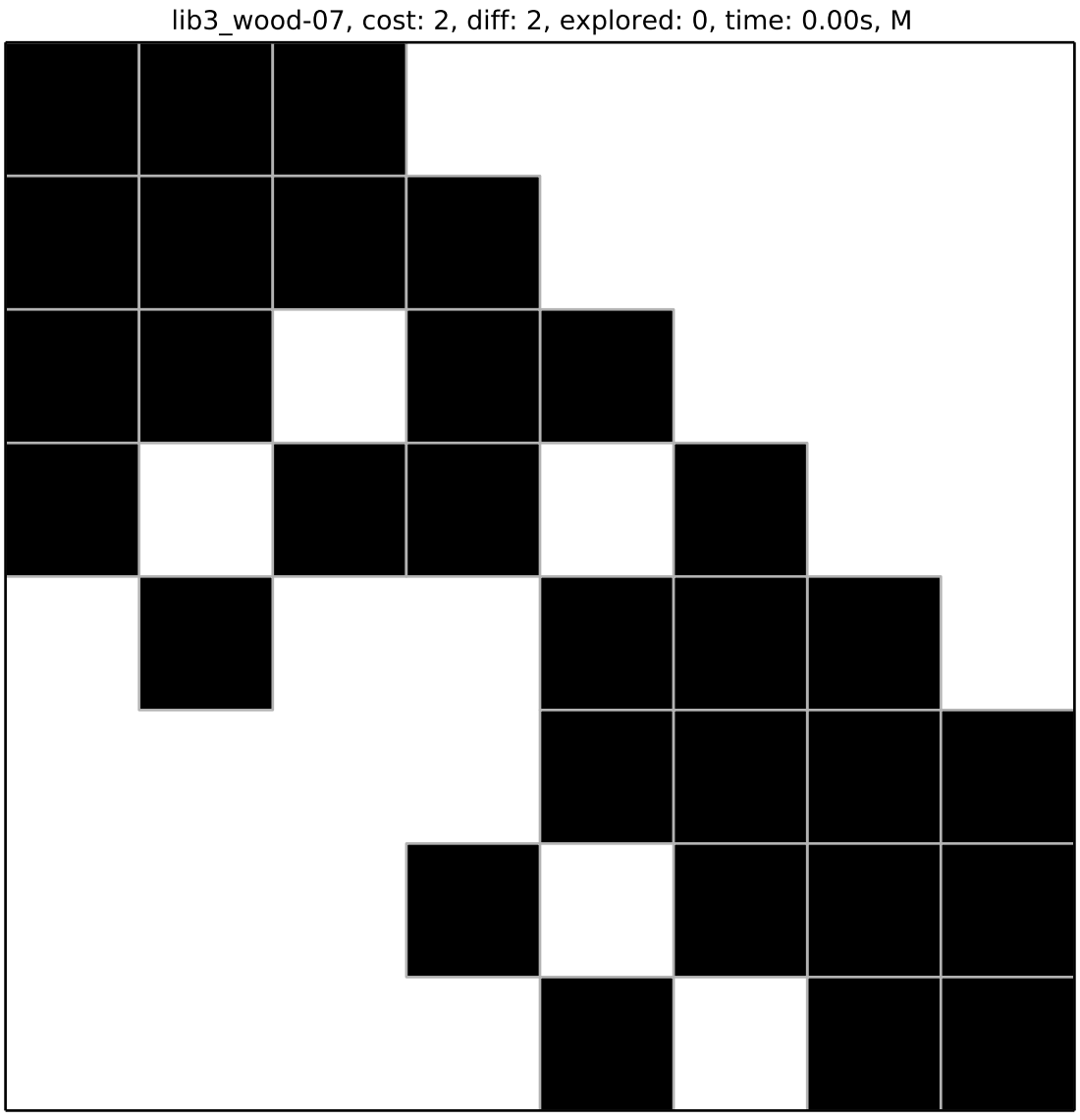
lib3_wood-07 8x8 (30) con: 4, var: 4

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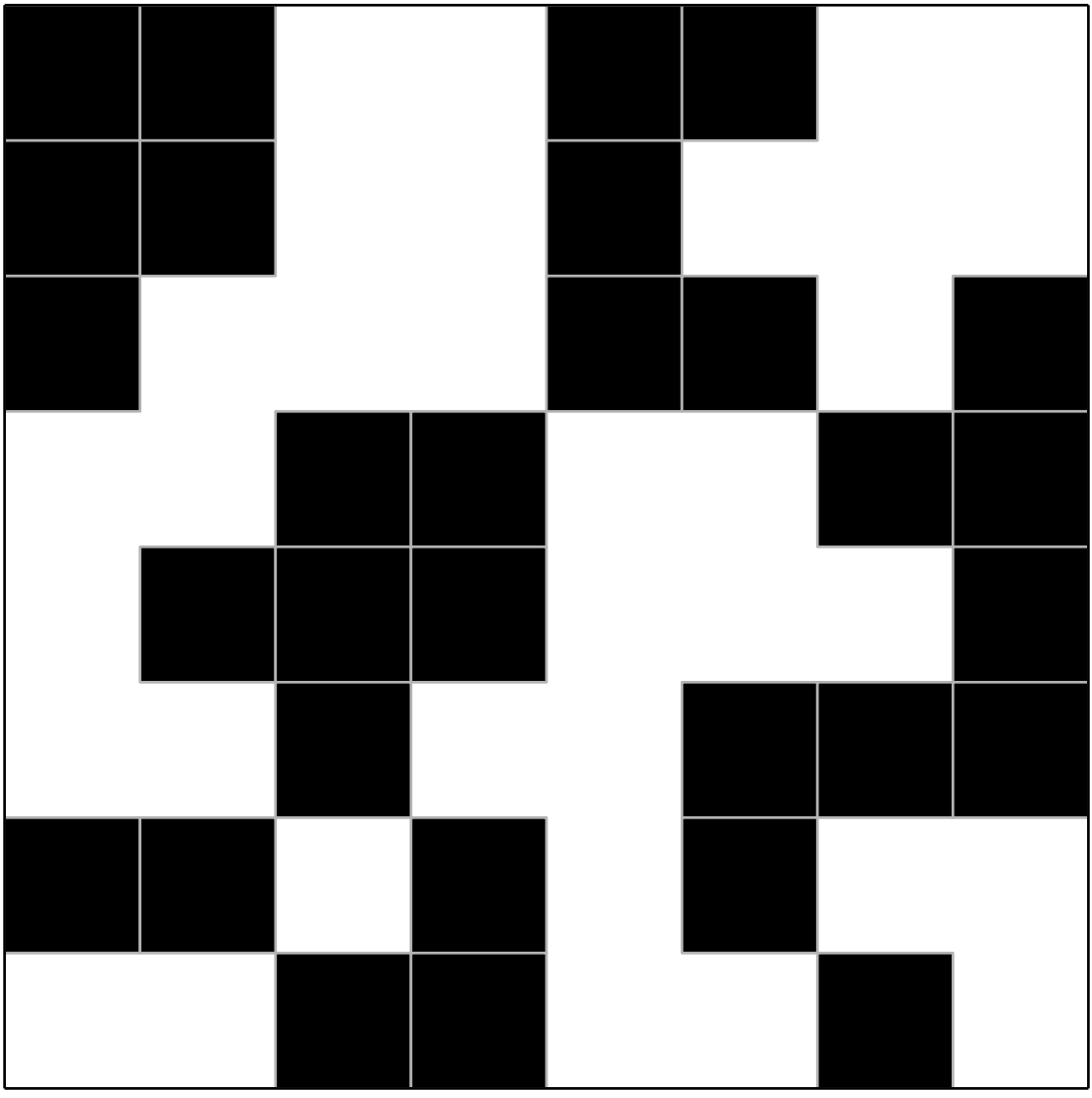
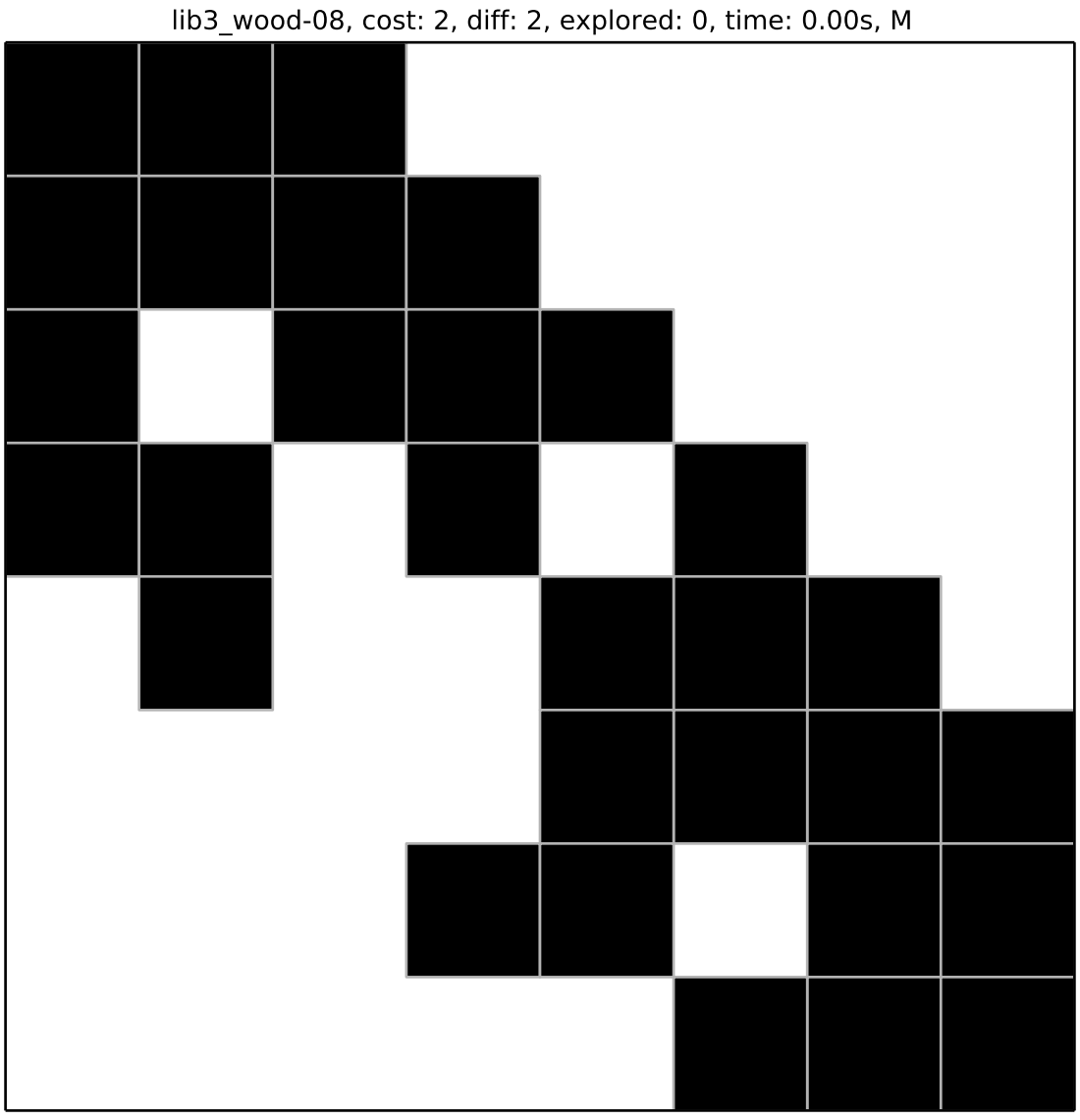
lib3_wood-08 8x8 (30) con: 4, var: 4

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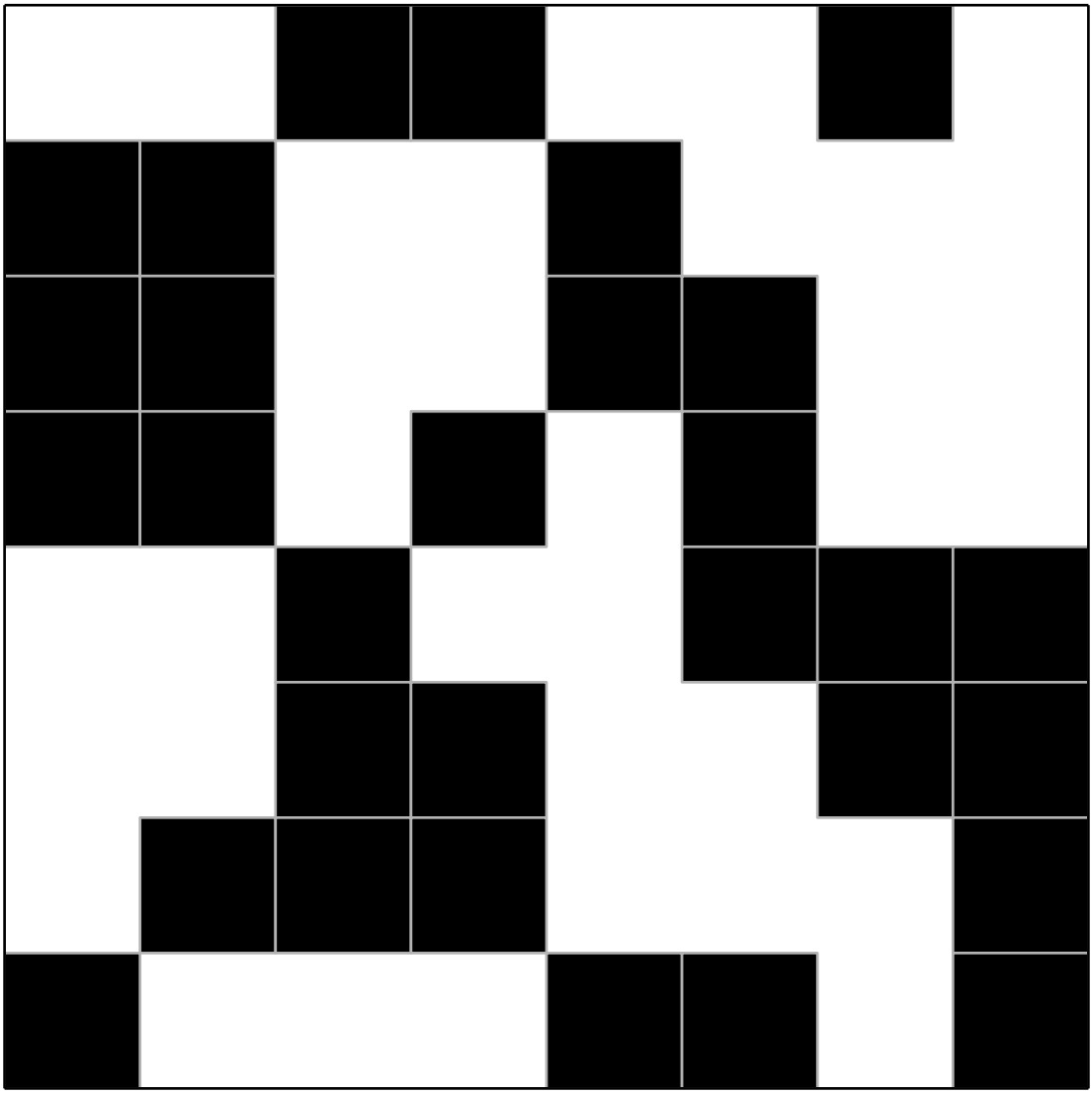

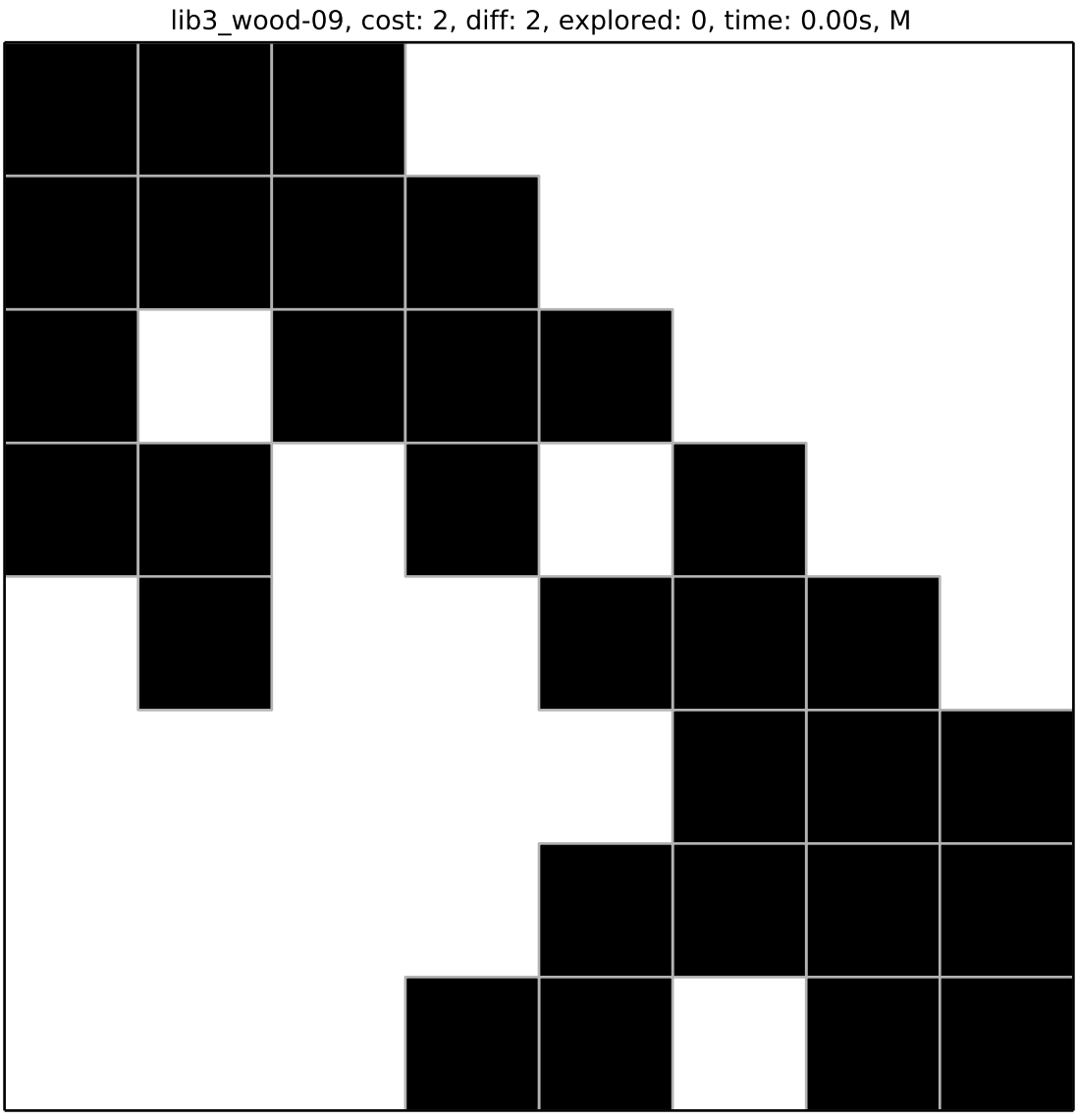
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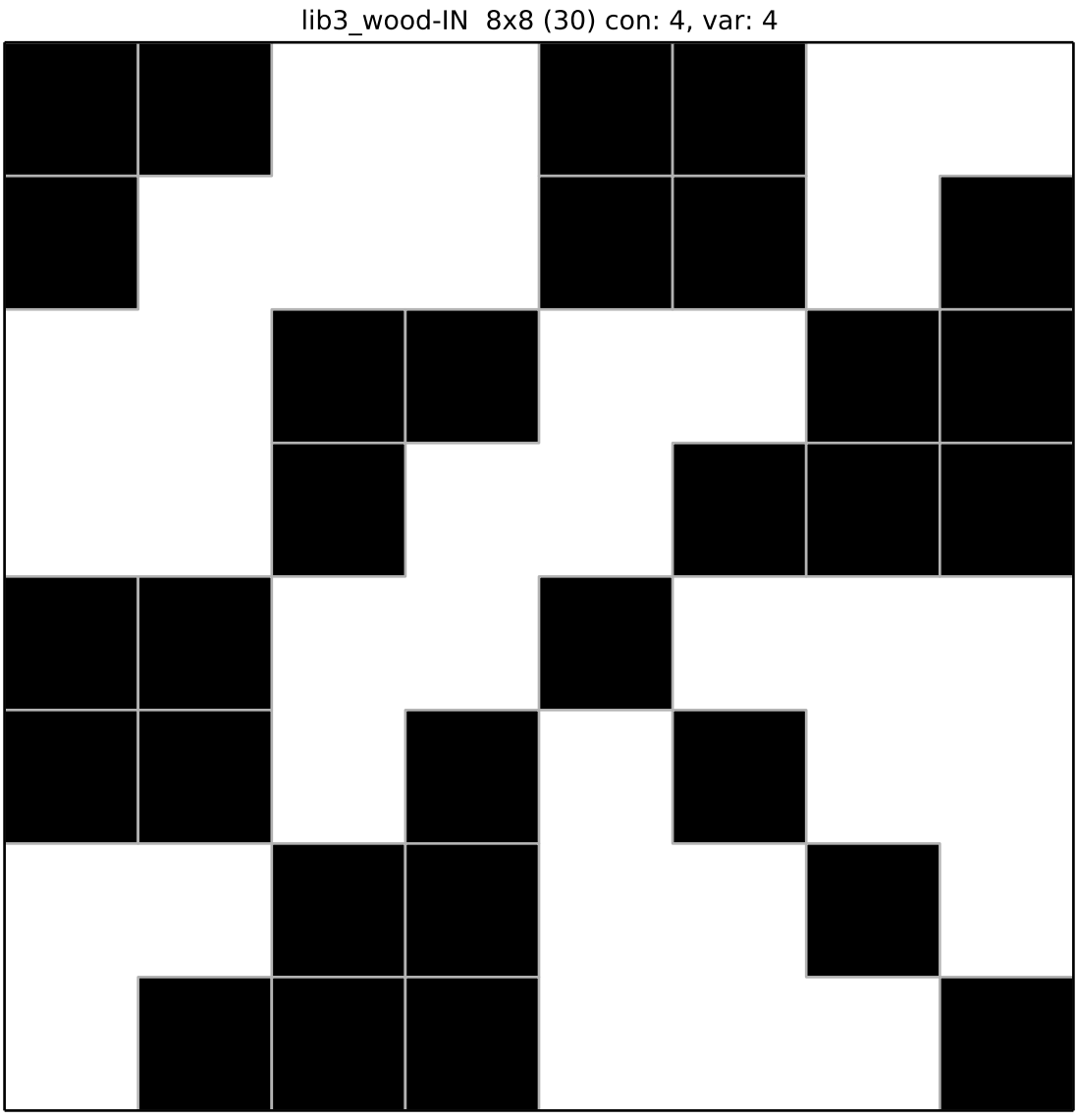
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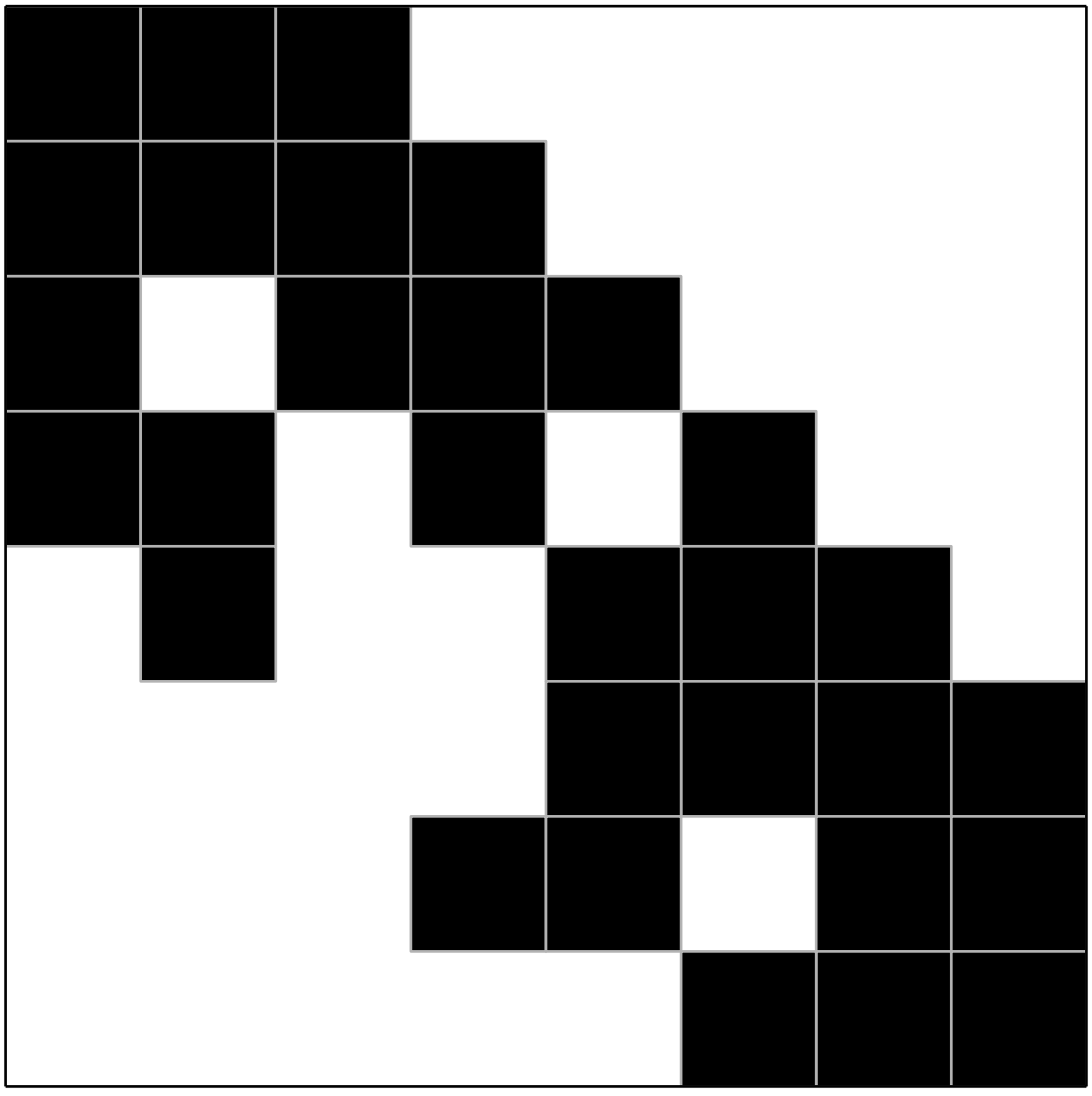
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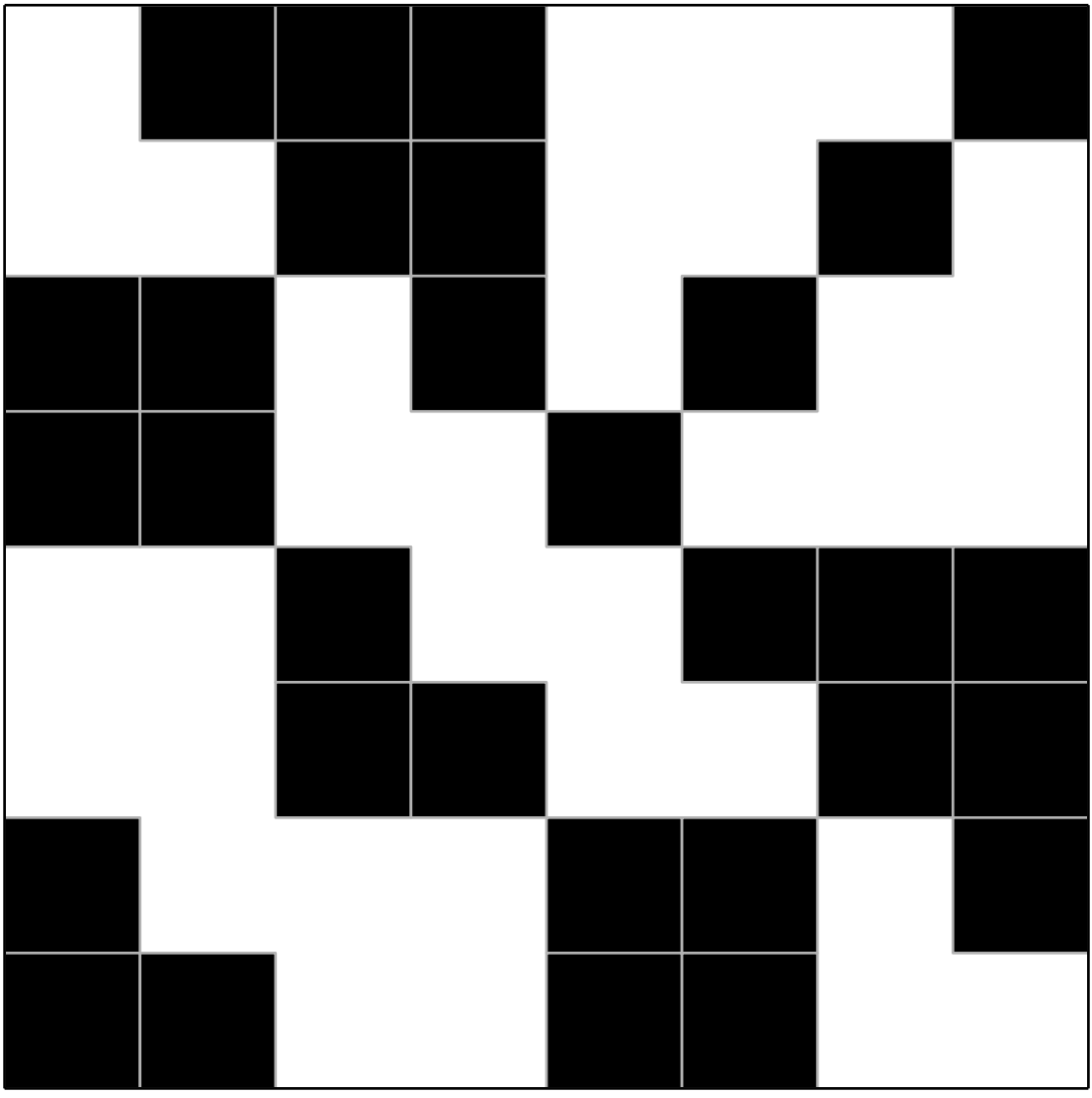

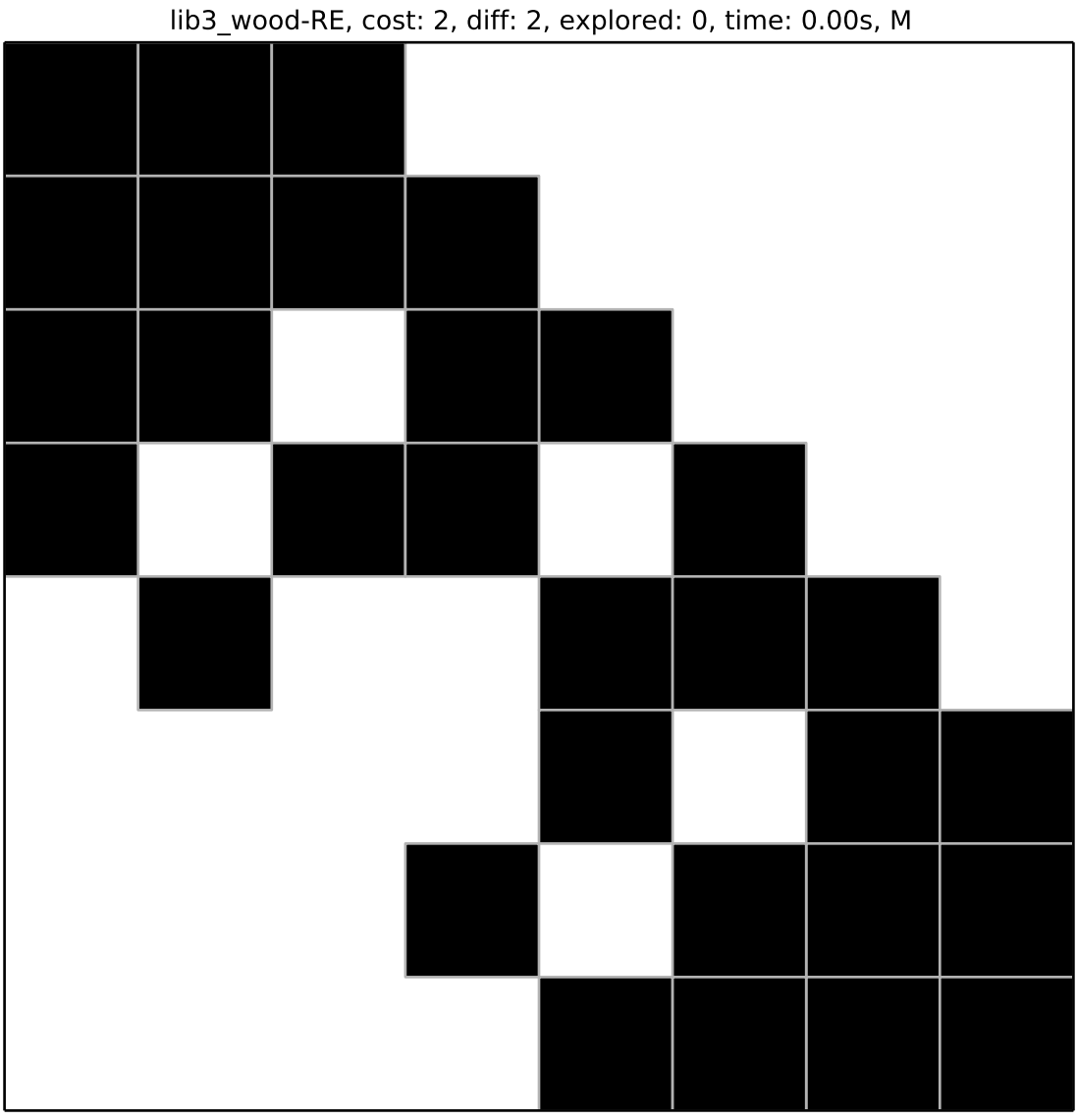
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