NIKOLI SELECTION –

EXTRA MARATHON PUZZLES

Solvers are once again reminded that **it is highly recommended that you do not attempt solving the marathon puzzles before correctly solving the first part of the test!** The marathon puzzles are weighted with a much lower points per solving minute value, and any time bonus is calculated from the last correctly submitted answer from the main part of the test.

There are 3 marathon puzzles in this booklet: **Slitherlink**, **Heyawake** and **Yajilin**. The points are awarded in the following way. For one correctly submitted puzzle, **50 points** will be awarded. For two, **105 points** will be awarded and if all three are correctly submitted there is a total of **170 points** on offer.

MARATHON #1: SLITHERLINK

Draw a single closed loop in the grid, travelling horizontally and vertically between the lattice points. The loop must not intersect/overlap itself. Numbers in some cells of the grid indicate how many edges of that cell are contained in the loop.

MARATHON #2: HEYAWAKE

Shade some cells in the grid. The grid is divided up into rooms. If a room is marked by a number, then there must be that many shaded cells within it. Shaded cells must not share an edge, and the remaining unshaded cells must form a connected area via horizontal or vertical paths. The unshaded cells must not traverse more than two rooms in a horizontal or vertical straight line.

MARATHON #3: YAJILIN

Draw a single closed loop in the grid, travelling horizontally and vertically through the centres of each empty cell it passes through. The loop must not intersect/overlap itself. Any empty cell the loop does not pass through must be shaded in. Shaded cells must not share an edge. Some cells have numbered clues; these indicate how many cells in the given direction are to be shaded.

MARATHON #1: SLITHERLINK (FENCES)

Answer key: enter the number of cells inside the loop in each marked column.

A ↓   B ↓

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2 0 2 2    1 2 2 2    3 2    3 2          1 3                                    2      2
3       2    1       2                    1 2        2 2        3 2 2 0 2 2 1      2      2
2          3       1      1 1    3 3                      1    2                    2      3
1      3 1    2 0 1 1    3                  2 3 1    0    1    1 2 3        1      2 2 1
2                    2    2 2 1 1    1        2    1    1    1    1
1 2    2        3        3 1        0        1    2                1    1 0 2    0 3 2 2
2      3 1 1 3    1                  3    0    3 2 2 1    3                2        2
1                2    2 2 0 1                        2    2 1 3                    0
3 2 1 3    1 3        0        1        3 3 3 1        2              2 3 3 1    2 2
2      3    1            1    2    3 2 2    3    0    1      3
3        0    3    3    2 2 1    0      2              1    1    1
3    0 2 1 2              3            2 3 3 3      0        2          0 2    2 3 1 3
1            2 1 1    1                  1 2 1 3      1                  1
2      3            3    1 3 1 0    2    1                  2    3 2 2 0        0
1 3 1 2    3 1 3    2                0    2        2        2 3        1      2    1 1
2    2    0    1    2      1    3 2 1 3    1                      1
3 2 1    2    1 2 2    2    3    1 2 3 2                1    3 3 1 3    0 1    3
3    1                2    1              3 1    1 1    2        3            1
2    1    1 0 2 1 3 1 0    2 3      2 1                2        2    2      1
2    2                    2 1        1 3    0 2    2 2 2 1    2 1 2 2
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MARATHON #2: HEYAWAKE

Answer key: enter the number of shaded cells in each marked room ABCDGEFGHI.

Answer key: enter how many times the loop makes a 90° turn in each of the marked columns.