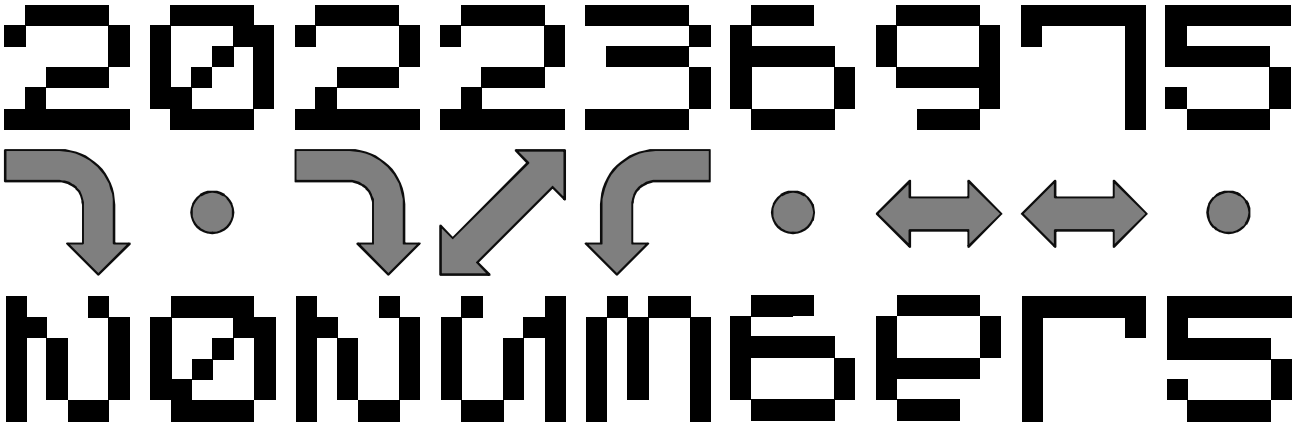


LMI Monthly test **ANSWERS** 26th - 28th May 2012

Timing 120minutes

Points Table Total: 850pts

Curve data	1	20pts
75pts	2	55pts
Trio cut	1	35pts
100pts	2	65pts
No numbers field	1	35pts
100pts	2	65pts
It's yours	1	40pts
105pts	2	65pts
Synchronized Maze	1	25pts
105pts	2	80pts
No numbers loop	1	50pts
145pts	2	95pts
B&W Matchmaker	40pts x5 + 20pts	
220pts	(5 puzzle grids + Non used grid)	

Author Xevs (Ko Okamoto)

Test solvers gorogoro
POTS

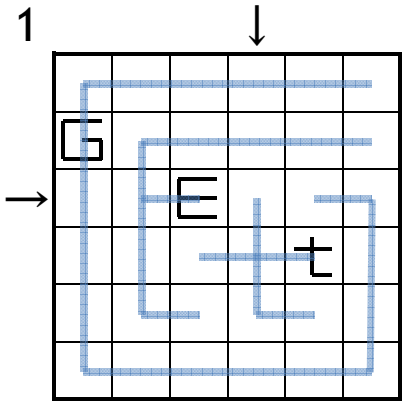
Expected time	110
prepare	5
	1
	6
	3
	4
	3
	6
	3
	5
	1
	12
	7
	21
determine	5
Masyu	3
B&W	4
S&M	5
Not alone	4
Signal loop	2
submit	10

Curve data 20 + 55 pts

Make some figures by drawing lines so that each figure goes through just one clue. All the cells will be visited by lines.
Each clue shows how the lines of the figure upon it turns or connects without any rotation or reflection.
(The clues do NOT inply lengths of any part of the line)
Different figures do not share same cell.

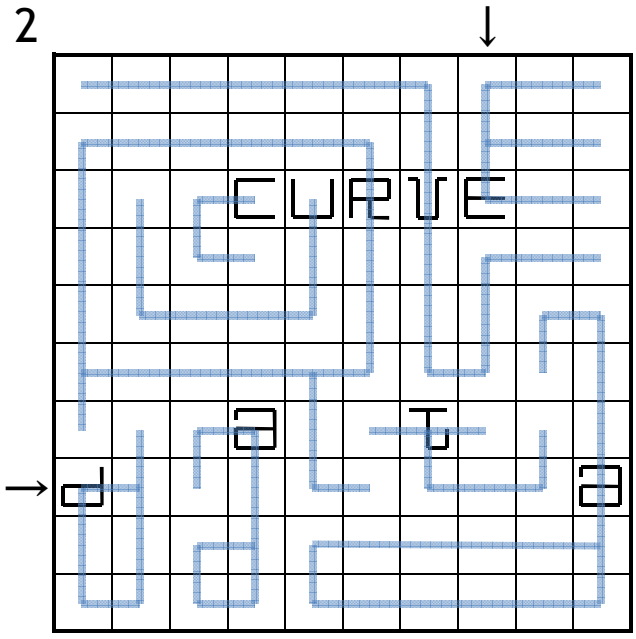
Answer Key
Enter the lengths of line segments along the marked row or column.
Enter "0" for row/column with no line segments.

1



Key: 11, 2

2



Key: 112, 22

R's placement is very limited by V's shape.
Hollows (top left of "d" and bottom left of "t") take very important roles.

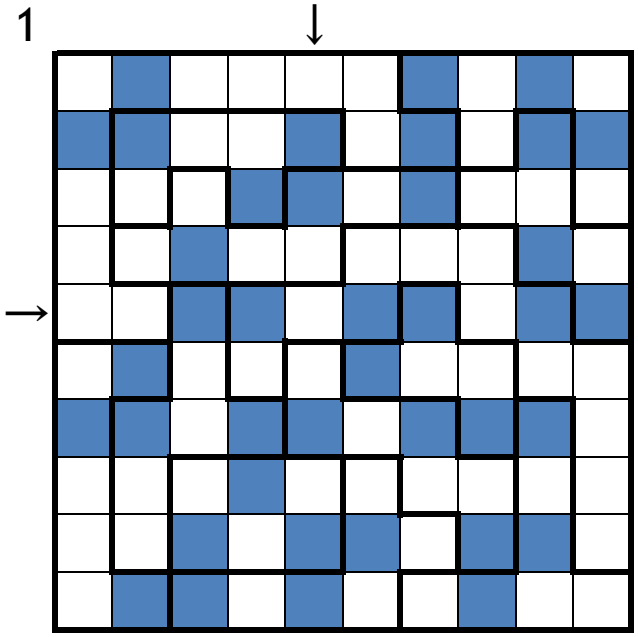
Trio cut

35 + 65 pts

Paint some cells black to make some triominos so that each triomino will be cut twice by thick lines.
Each region bordered by thick lines should have three painted cells.

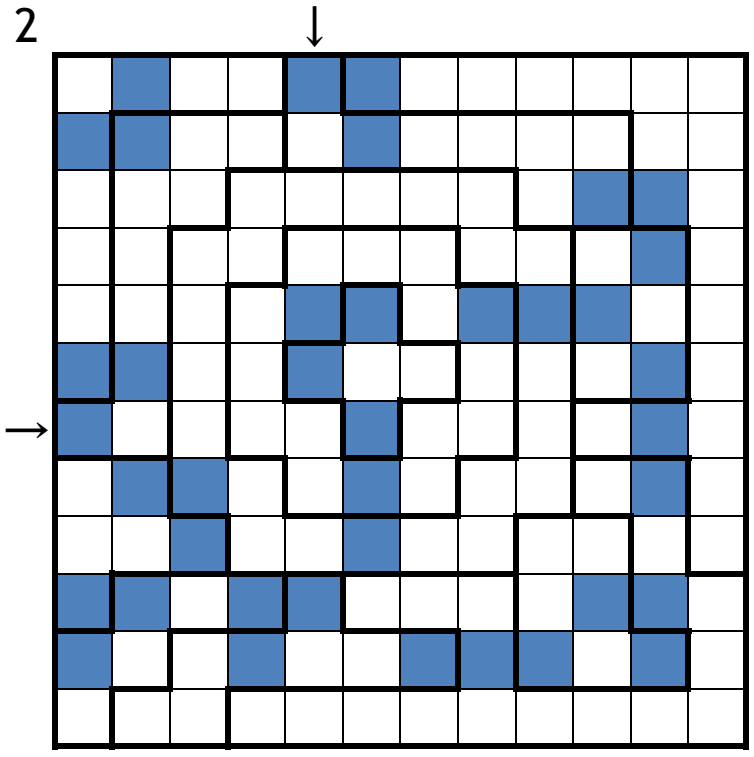
Answer Key
Enter the numbers of continuous cells with poliominos along the marked line.
Enter "0" for row/column with no poliominos..

1



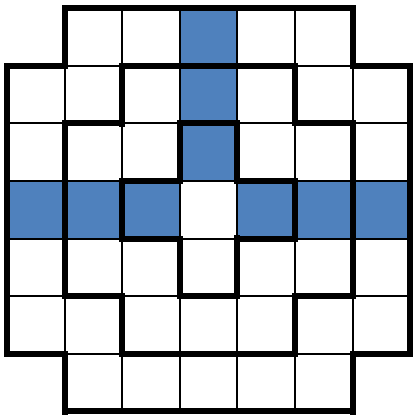
Key: 222, 212

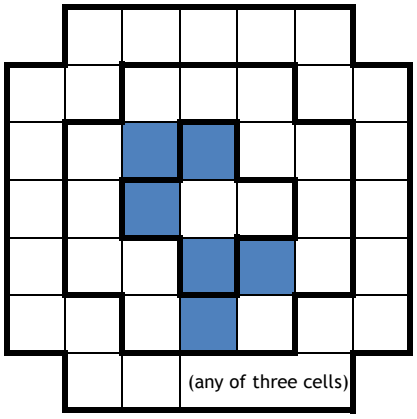
2



Key: 111, 121

The center 3 regions themselves
have a few possibilities to put triominoes.
The two other orientations are shown below.

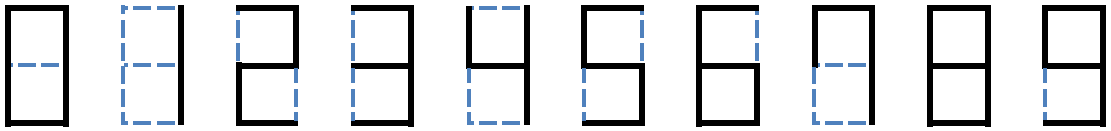




No numbers field

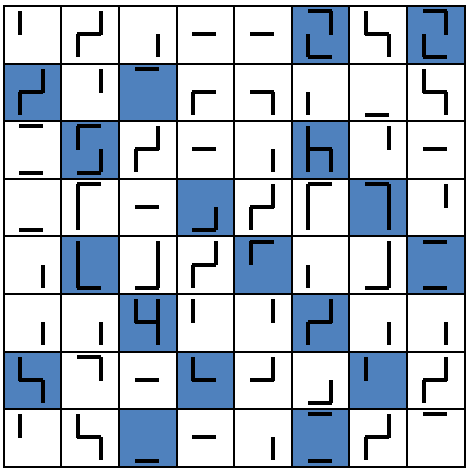
40 + 65 pts

Blacken some cells so that all unblackened cells will be connected virtically or holizontally.
Blackened cells can't touch each other vertically or horizontally.
In each row or column, figures of the unblackened cells can't form a number (listed below) when combined all together.



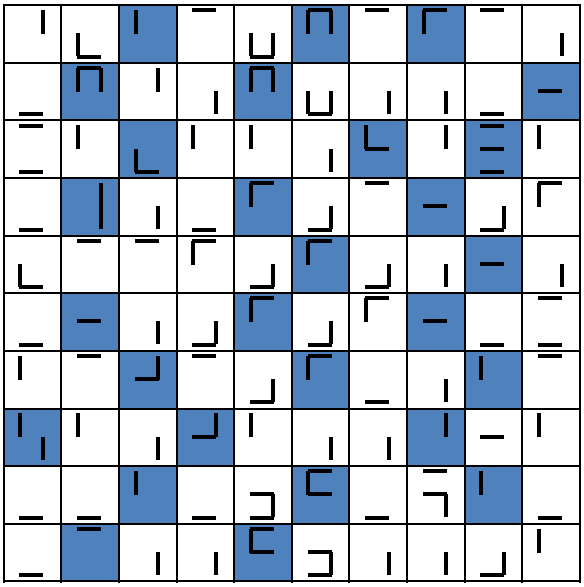
Answer Key
Enter the numbers of blackened cells of each row from top to bottom.

1



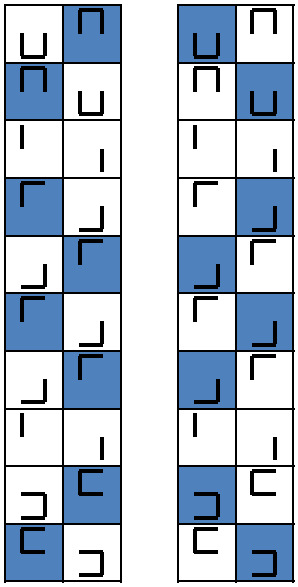
Key: 22223232

2



Key: 3333233332

The very center two columns has just 2 possibilities. That's the first step.



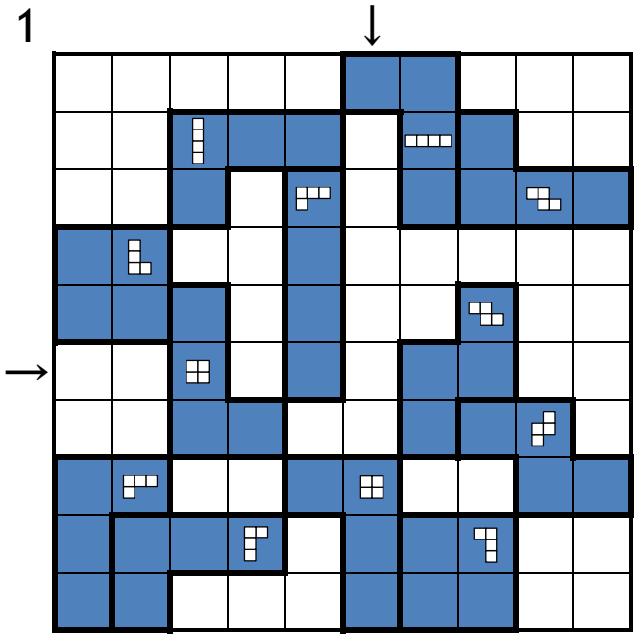
It's yours

40 + 65 pts

Put some pairs of polyominos in the grid so that each polyomino has one clue inside it.
The paired polyominos will touch each other, and a pair of polyominos cannot touch another pair of polyominos.
A clue in a polyomino show the shape of the other polyomino of the pair with no rotation or revlection.

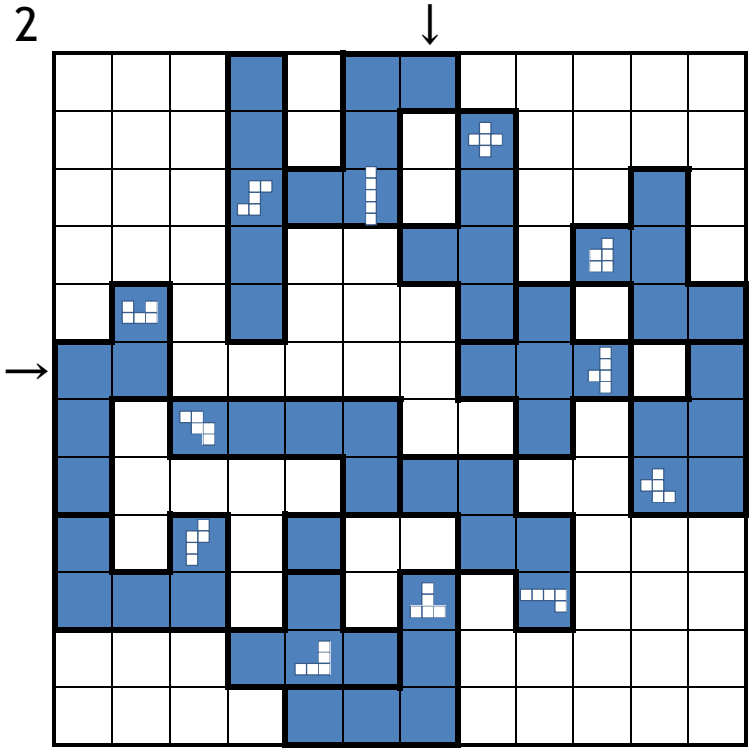
Answer Key
Enter the numbers of continuous cells with polyominos along the marked line.
Enter "0" for row/column with no polyominos.

1



Key: 112, 13

2



Key: 231, 1113

There are so many possible pairs
that easily overlooked in this problem.

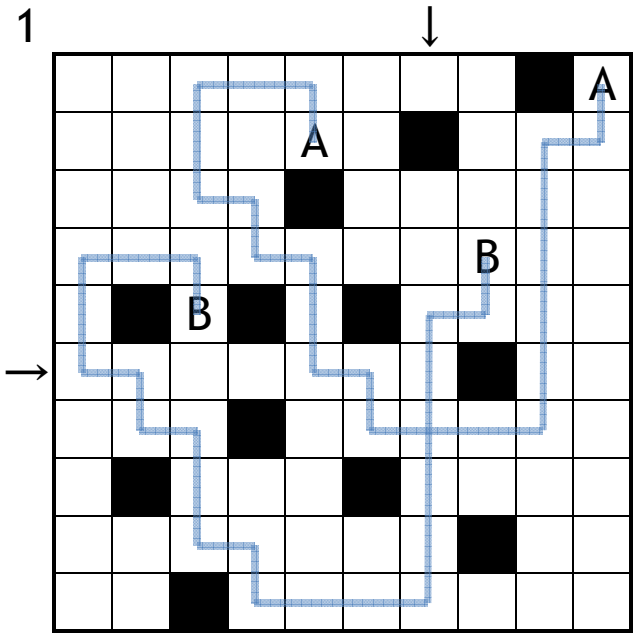
Synchronized maze

25 + 80 pts

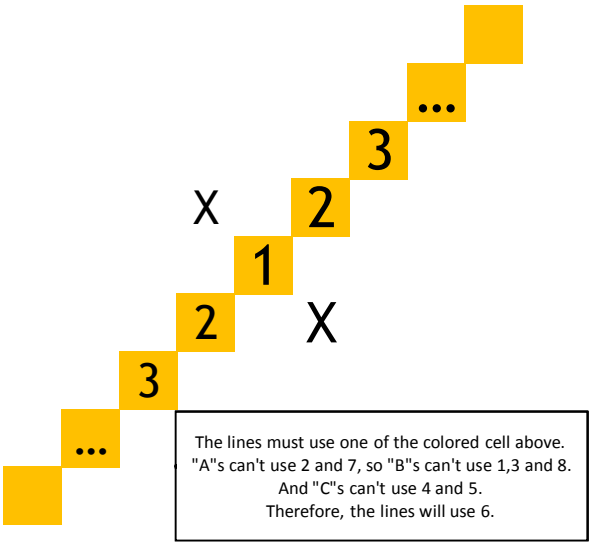
Connect pairs of the same alphabets with continuous lines.
Each of the line should form the same shape (with some rotation or reflection if necessary).
The lines can't go through blackened cells.
The lines may cross each other but otherwise can't share any cell.

Answer Key
Enter the lengths of line segments along the marked row or column.
Enter "0" for row/column with no line segments.

1

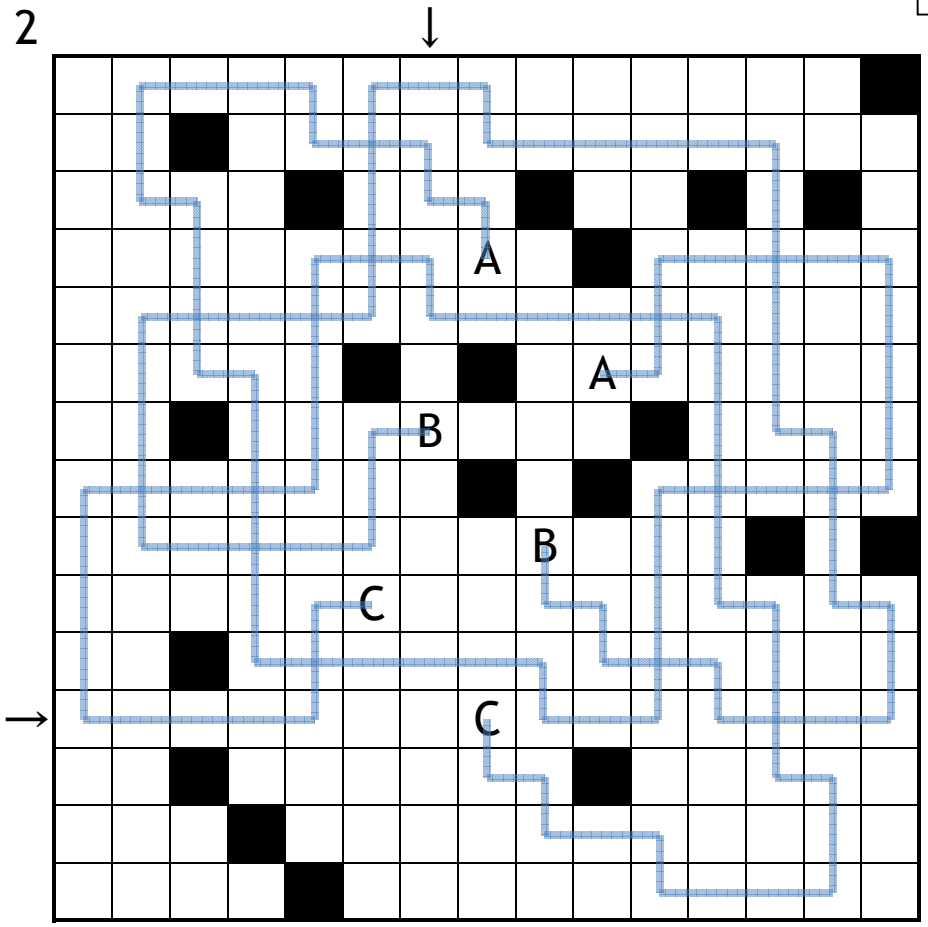


Key: 11, 5



The lines must use one of the colored cell above.
"A"s can't use 2 and 7, so "B"s can't use 1,3 and 8.
And "C"s can't use 4 and 5.
Therefore, the lines will use 6.

2

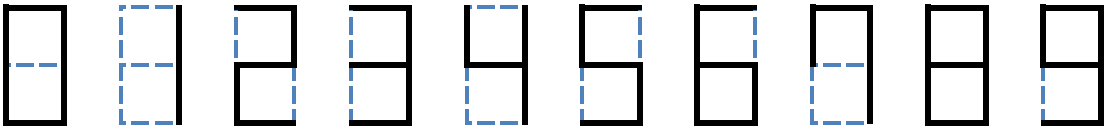


Key: 423, 11

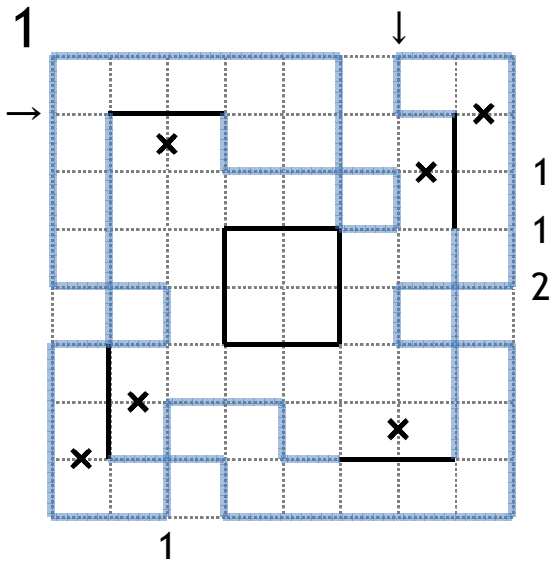
No numbers loop

50 + 95 pts

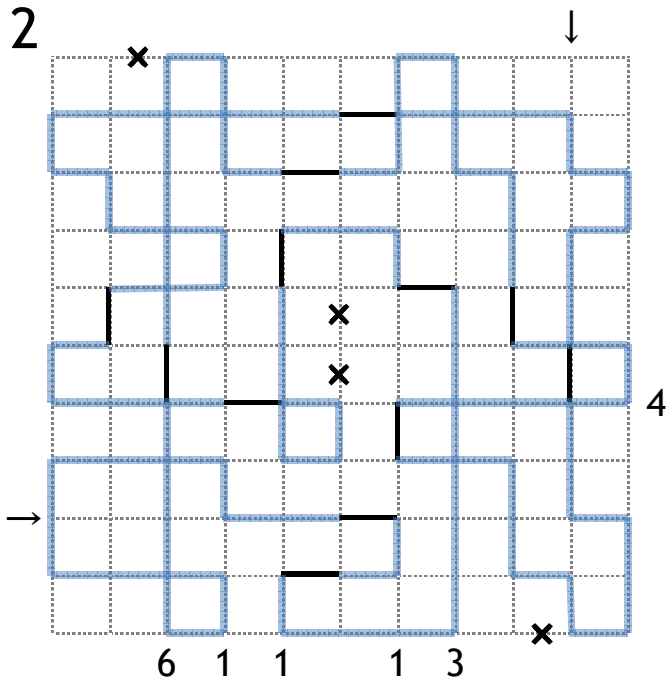
Draw a closed loop in the grid. The loop can cross itself but otherwise never visits any point twice.
In any of two adjacent squares, the line segment can't form a number in any orientation. (listed below).
Numbers outside the grid shows how many clossings exist along the direction.
Some parts of the loop are already drawn for you, and the loop can't go through a segments with "X".



Answer Key
Enter the lengths of line segments along the marked row or column.
Enter "0" for row/column with no line segments.

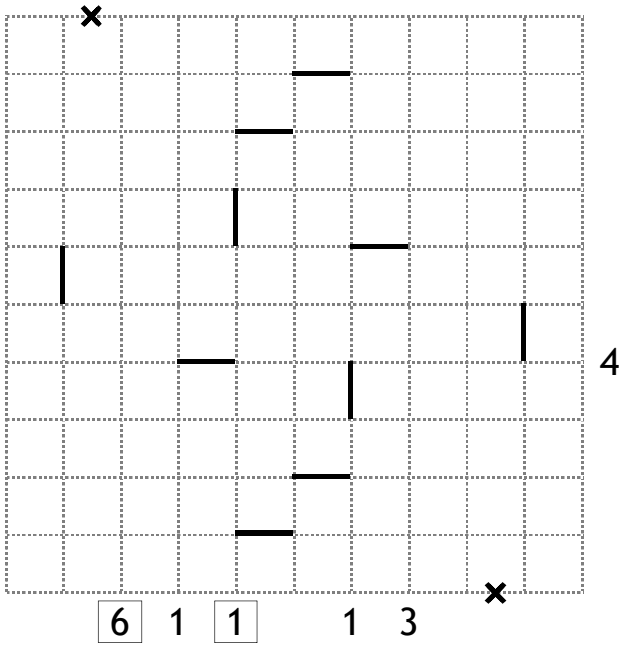


Key: 21, 111



Key: 31, 151

The "6" is the first step.
The next breakpoint is the second "1".
You have to solve very carefully to the final segment.
The first version of this problem is shown below.



Black & White Matchmaker 40 x5 + 25 pts

Match 5 of 6 grids with different puzzletypes and solve them. One grid will not be used.

Masyu — Draw a single loop that passes every cell with a circle.
In cells with black circles, the loop must make a 90-degree turn and goes straight in the
In cells with white circles, the loop must go straight and makes a 90-degree turn in at l

Black & white — Fill the grid with black or white circles so that all of the circles with same color will be
Circles with same color can't form a 2x2 square.

Sun & Moon — Draw a single loop that passes every cell.
The loop can't make turns between cells with circles of the same color,
and makes just one 90-degree turn between cells with circles of different colors.

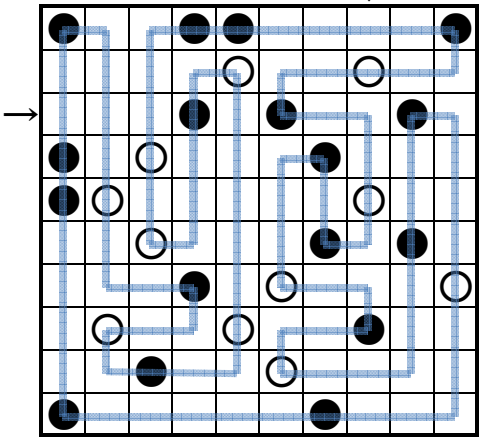
Not alone — Fill the grid with black or white circles so that each row or column has the same amount of black circles and white circles.
One circle of a color can't be sandwitched by circles of the other color virtically or holizontally.
An array of two or more circles of a same color may be sandwitched by circles of the other color virtically or holizontally.

Signal loop — Draw a single loop that passes every cell except cells with black circles.
The loop goes straight in cells with white circles.

[Sample order of determination]
1. "Signal loop" must be matched with D.
2. "Not alone" must be matched with F.
3. B can't be any of the rest puzzletypes.
4. C can't be "Masyu" or "Sun & Moon".

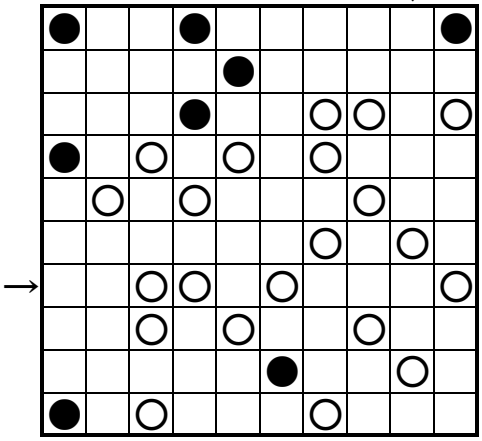
Answer Key: Enter the lengths of line segments along the marked row or column. Enter "0" for row/column with no line segments.
(for Masyu, Sun & Moon, and Signaled loop)
Enter the content of the marked row or column; using B for black circles, and W for white circles.
(for Black & white and Not alone)
Enter "X" for each marked row or column.
(for the non-used grid)

A Sun & Moon



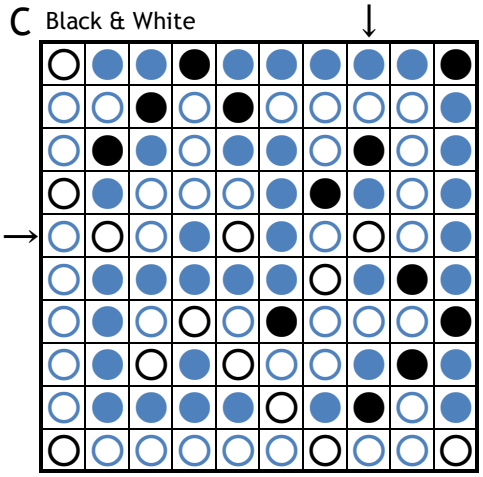
Key: 21, 31

B Not used



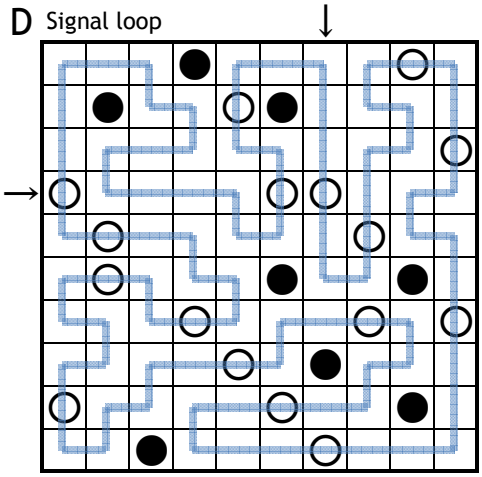
Key: X, X

C Black & White



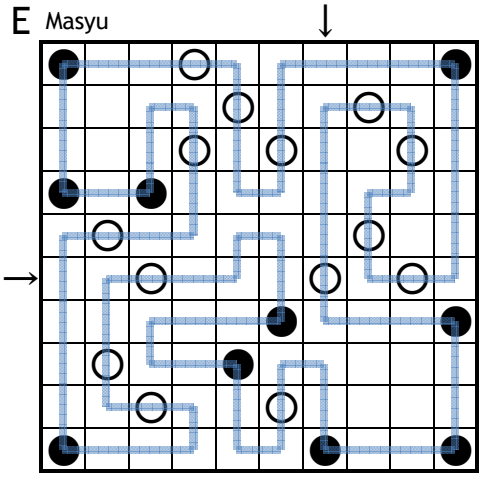
Key: WWWBWBWWWB, BWBBWBWBBW

D Signal loop



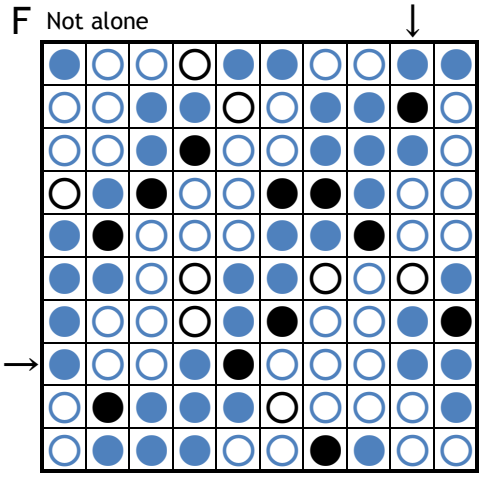
Key: 31, 5

E Masyu



Key: 32, 52

F Not alone



Key:BWWBBWWWBB, BBBWWWBBWW