



29 дэх удаагийн Логик Паззлын Дэлхийн Аварга Шалгаруулах Тэмцээнд (WSPC) оролцох үндсэн багийн сонгон шалгаруулалт



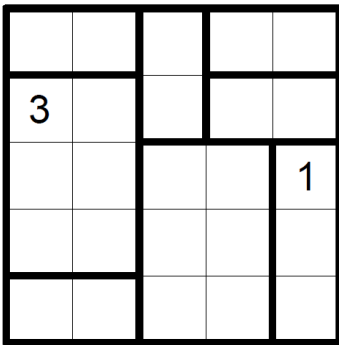
Бэлтгэл №5

2022/06/10

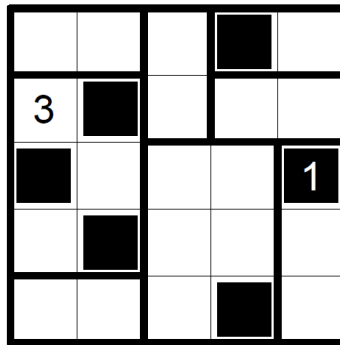
1. Heyawake

Shade some cells, so that shaded cells are not horizontally or vertically adjacent (they can touch each other diagonally) and all unshaded cells are connected. No horizontal or vertical sequence of unshaded cells can extend over more than two outlined regions. The numbers indicate how many cells in the respective region are shaded; the numbered cell itself can be shaded but the number remains valid.

Example



Solution

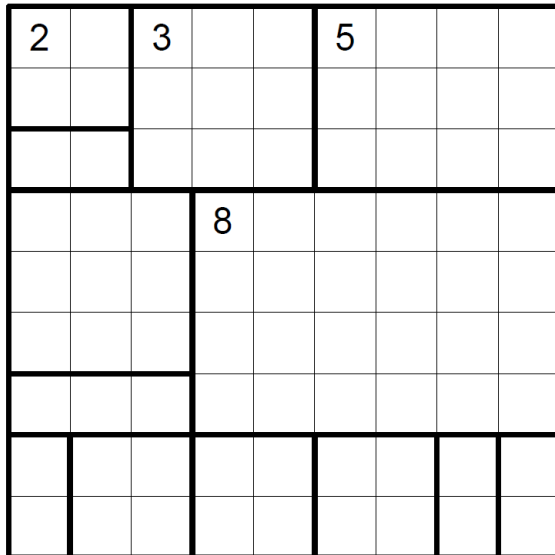


“Логик пазл, IQ тестүүд” гарын авлагын 64-р хуудас дахь Хэявакэгийн дүрмийн сүүлийн өгүүлбэр буруу байгааг анхаарна уу. Тус өгүүлбэрийг

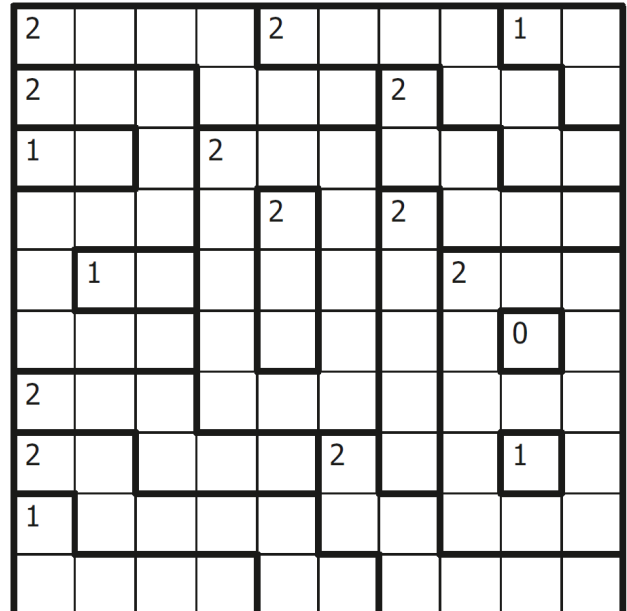
Хоёроос олон мужийг дамнан байрладаг дараалсан будагдаагүй нүднүүд байж болохгүй.

гэж засаж ойлгоорой.

1-1. 2.5 points



1-2. 6 points



2. Hidato

Fill in the whole grid with numbers so that each number from 1 to N (N will be given in a circle next to the grid) appears exactly once in the grid. Each pair of consecutive numbers (i.e. the numbers whose difference is exactly one) must be placed in a pair of orthogonally or diagonally adjacent cells.

Example

1		7	
5		9	
16		3	

16

Solution

1	6	7	8
5	2	9	10
16	4	3	11
15	14	13	12

2-1. 1.5 points

37

			13			
			30			
9	26	11		32		
			1			
		23		17	3	35
		6				
		19				

2-2. 4.5 points

	6		16		26		30	
4								75
		1		24		19		
13								78
		45		22		70		
43								64
		40		52		81		
37								62
	49		54		57		60	

81

3. LITS

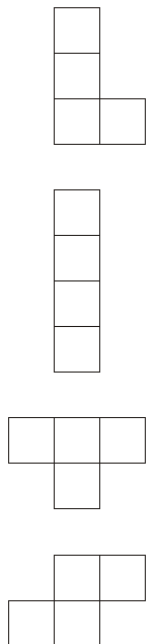
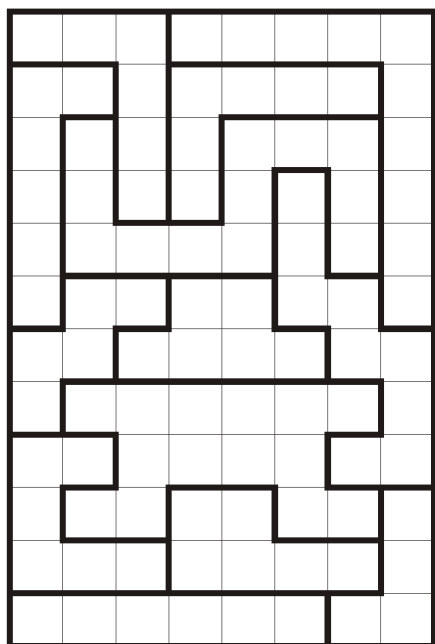
Shade 4 cells in each of the outlined regions so that they are orthogonally connected within each region, forming the shape of one of the letters L, I, T or S. Identical pieces may not touch each other orthogonally. The shapes can be rotated and/or mirrored, but they are still considered the same shape. All the shaded cells must be interconnected. Shaded cells cannot form a 2x2 square.

Example

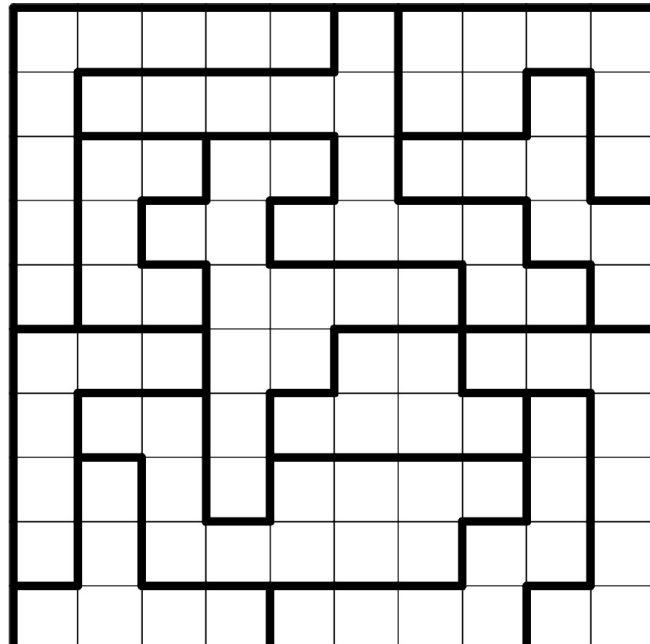
Solution

See puzzle 3-1 and 3-2 on page 3.

3-1. 2.5 points



3-2. 2.5 points



4. Minesweeper

Place some one-cell sized mines into the grid so that each number in the grid represents the number of mines in the diagonally or orthogonally neighbouring cells. Cells with numbers cannot contain mines and each cell can contain at most one mine.

Example

1				
		3		3
3				
				2
	1	3		

Solution

1			●	●
●		3	●	3
3	●			
	●		●	2
	1	3	●	





4-1. 1.5 points

2	3	1	4	2
2	4	3	2	2
4	5	3	3	3
3	6	4	5	1
2	3	1	3	1

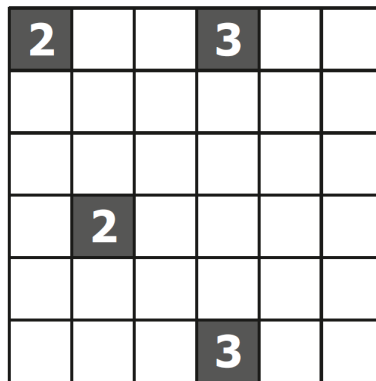
4-2. 2.5 points

	3			2	3			2
2		3		2		4		2
	4		1	2		7		
2			2		3			2
	4	3		4		3	2	
2			2		2			1
	2		2	2		2		
1		4		1		4		3
	1			2	1			3

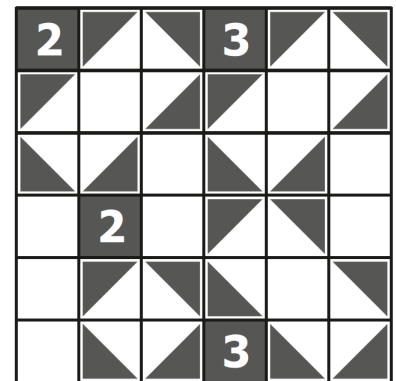
5. Shakashaka

Paint a right-angle triangle (, , , ) in some white cells, each triangle occupies exactly half of a cell. Some white cells may remain empty. A number in a grey/black cell indicates how many sides of triangles in orthogonally adjacent cells touch this cell. The remaining white space must form rectangular areas, oriented either horizontally, vertically or diagonally. Two white rectangles must not be orthogonally adjacent.

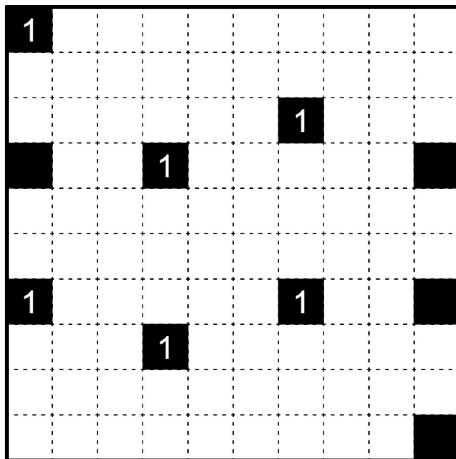
Example



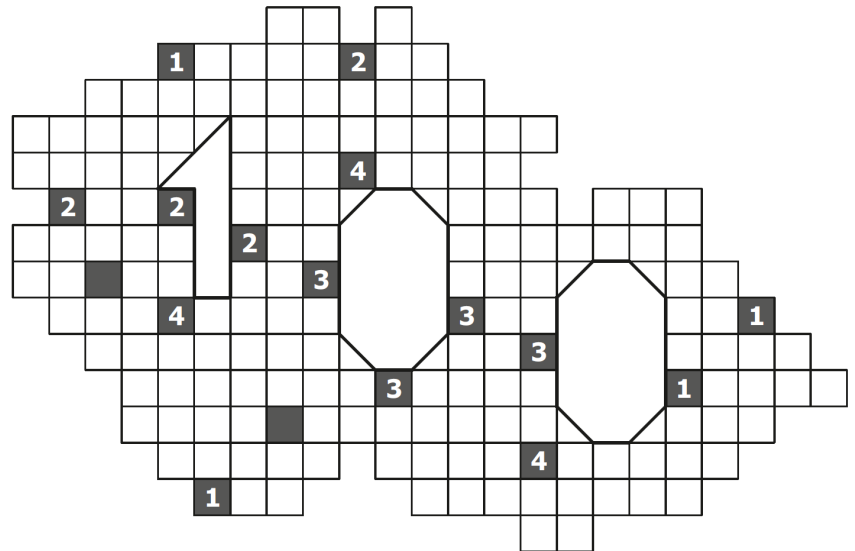
Solution



5-1. 4 points



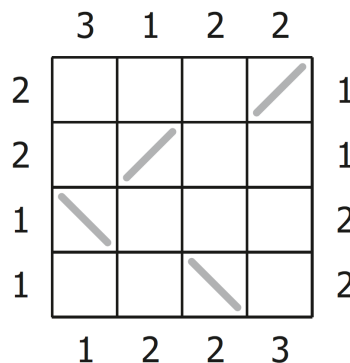
5-2. 7.5 points



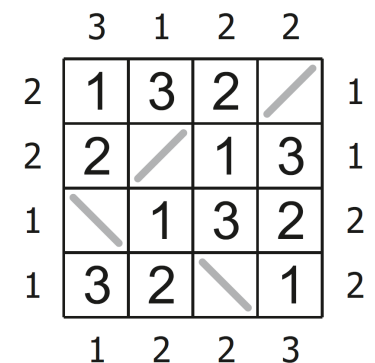
6. Skyscrapers with mirrors

Place numbers from 1-4 in puzzle 6-1 (1-5 in puzzle 6-2) in all the empty cells so that they do not repeat in rows and columns. These numbers represent heights of the buildings. In some of the cells you can find two-sided diagonal mirrors. The numbers around the grid indicate the number of buildings you can see from the given viewpoint, both in front of the mirror and reflected by the mirror. The building is visible only when it is higher than all the buildings in front of it.

Example

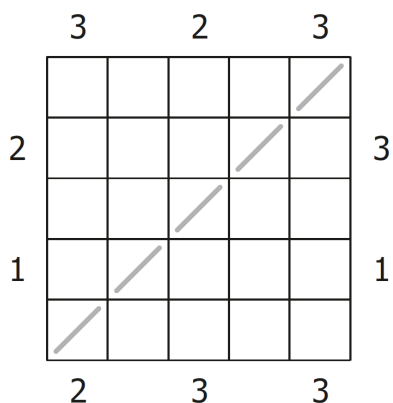


Solution

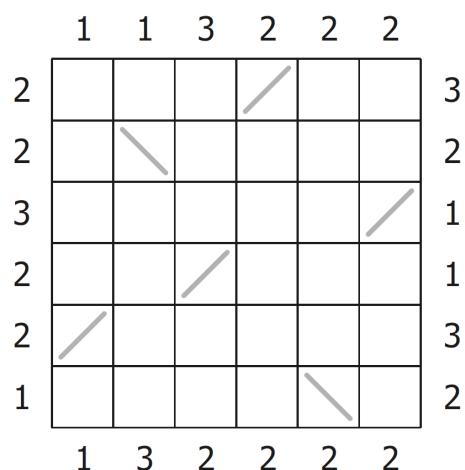


See puzzle 6-1 and 6-2 on page 5.

6-1. 1.5 points



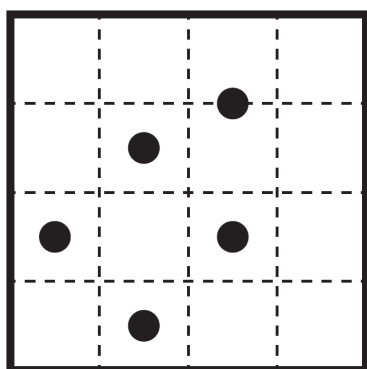
6-2. 4.5 points



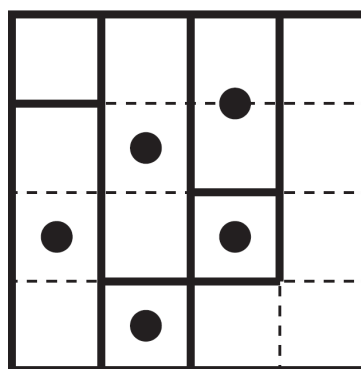
7. Spiral Galaxy

Divide the grid into 180° symmetrical regions along the gridlines. Each region must contain exactly one circle, which represents the central symmetry point of the region. All circles are given. Some cells may not be part of any region. All the used cells must together form a single connected area that is 180° symmetrical.

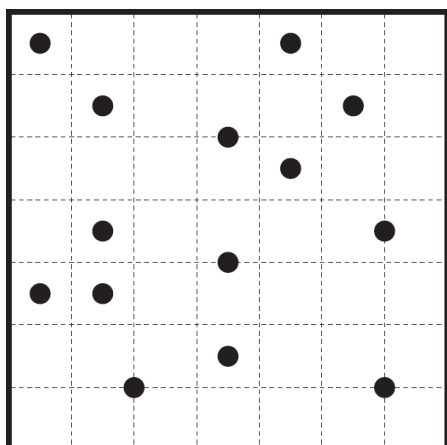
Example



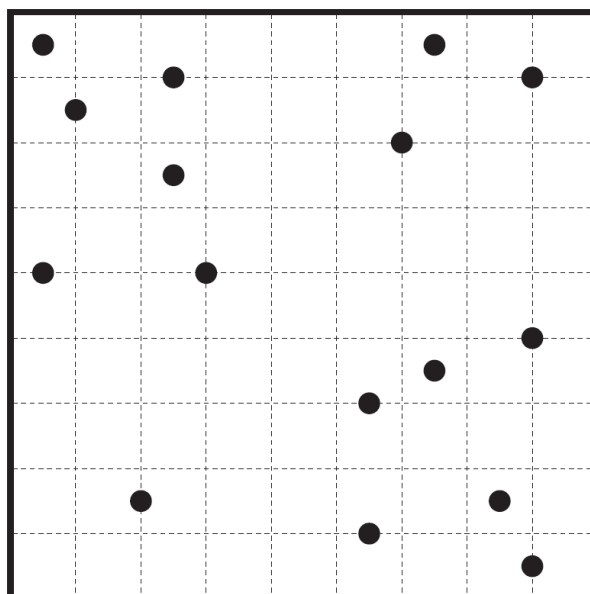
Solution



7-1. 2.5 points



7-2. 3 points



Бодолтоо VI/11-ний Бямба гарат 16:00-аас (УБ-ын цагаар) өмнө puzzle@iqcenter.mn мэйл рүү илгээнэ үү, баярлалаа.