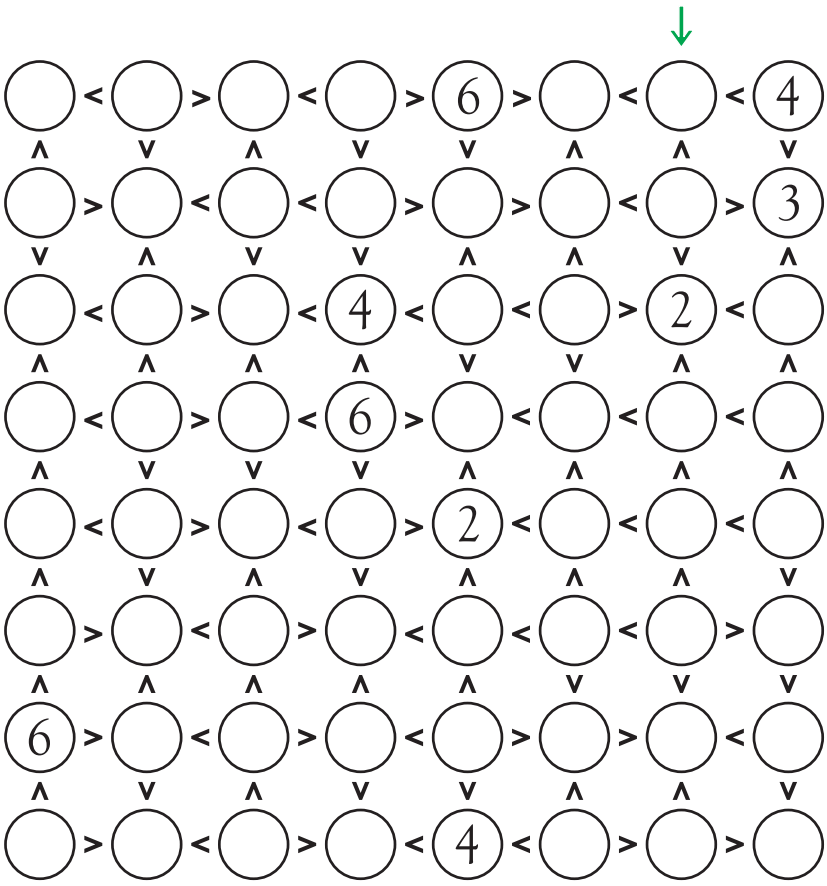
1. FUTOSHIKI

33 pt

Place numbers from 1 to 8 in circles such that every row and column contains each number exactly once. Inequality constraints must be satisfied.

Answer format: Write the 8 digits of marked column from top to bottom.

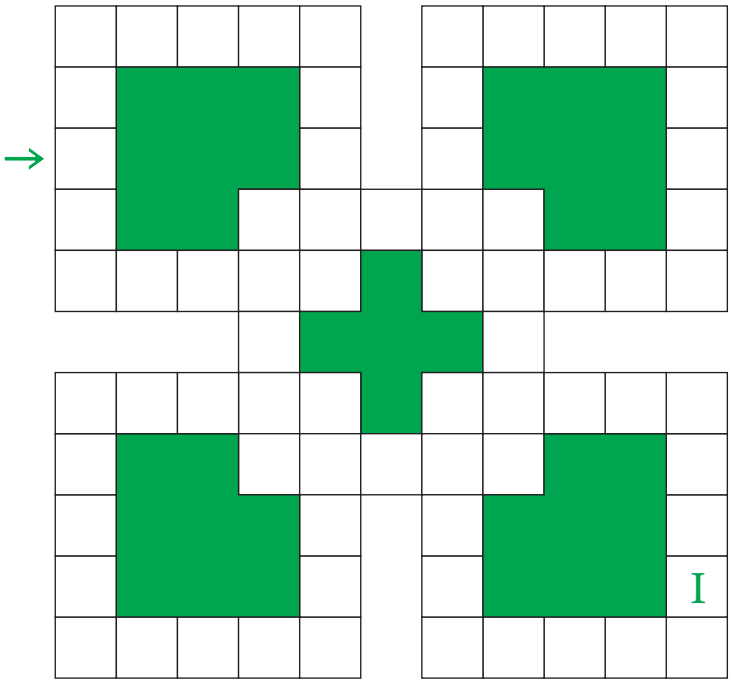


2. DIWORD

43 pt

Place in the grid all words from left to right and from top to bottom. Write two letters in each cell. One letter (first or second) is given.

EDINOVERKA
KALIBROVKA
KARIKATURA
KATOLICIZM
KATORZANKA
KAULOFRINA
LIBRETTIST
LITERATURA
NAPRASLINA
OTSEBATINA
OTSTIKOVKA
RADIKALIZM
RADIOTOCKA
RADIOVOLNA
RECIDIVIST
RELIGIOVED
STAZIROVKA
STEKLOTARA
STILISTIKA
STROPILINA

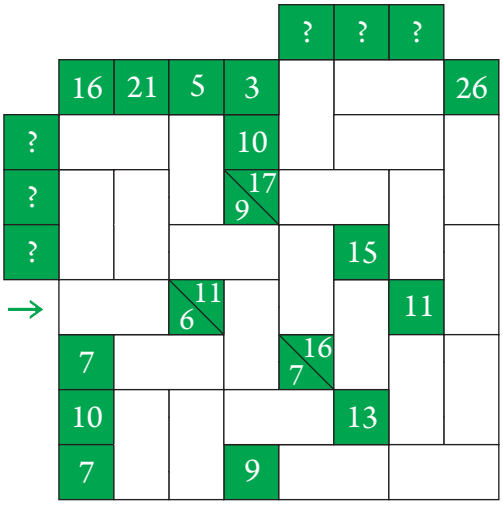


Answer format: Write the 8 letters of marked row from left to right.

КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

3. DIKURO 8 pt

Fill in the white cells with digits 1-8. The sum of digits in continuous one row/column equal to the number at the beginning of row/column. The digits in one sum cannot repeat.

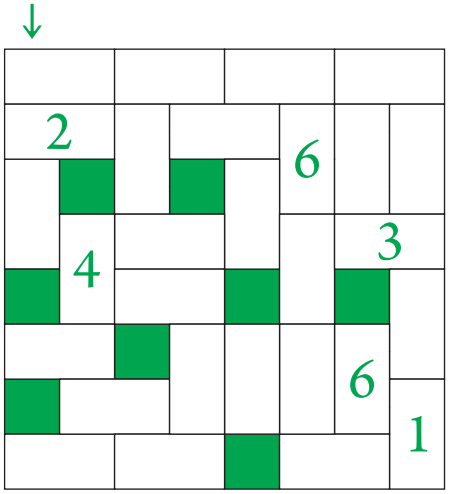


Answer format: Write the content (5 digits) of marked row from left to right.

4. DIMAGIC 11 pt

Fill in all white cells with digits 1-6 which cannot repeat in rows and columns.

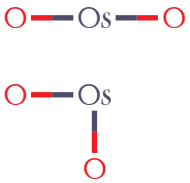
Answer format: Write the content (5 digits) of marked column from top to bottom.



5. DIOXIDES 22 pt

Place letter "s" in 16 cells with letter "O". Cells with Os (osmium atom) cannot touch each other not even diagonally. These, along with the 2 other oxygen atoms O, will form 16 osmium dioxides having the given shapes.

O	O	O	O	O	O	O	O
O	O			O	O	O	O
O	O	O		O			O
O		O	O	O			O
O	O	O		O	O	O	O
		O	O	O	O	O	
O	O		O	O		O	
O	O	O	O	O	O	O	



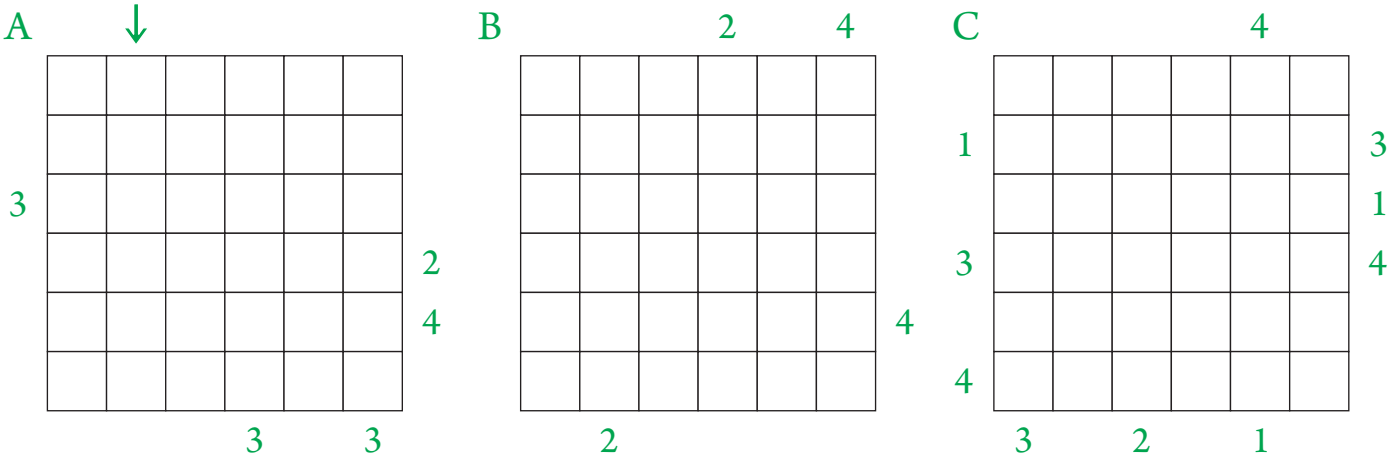
Answer format: Write the number of right-angled dioxides.

КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

6. FIRS

65 pt

Every row and column of each grid must contain firs of different heights from 1 to 6. Numbers outside the grid show the quantity of the firs visible in the corresponding directions: fir is visible if no higher firs before it. Every year all firs with height of 6 are chopped down. On the grid A there is the forest before chopping. On the B – after 1 year: all trees are higher on 1 and firs of height 1 instead of chopped trees. On the grid C the forest 1 more year later: again all trees are higher and new firs instead of chopped.

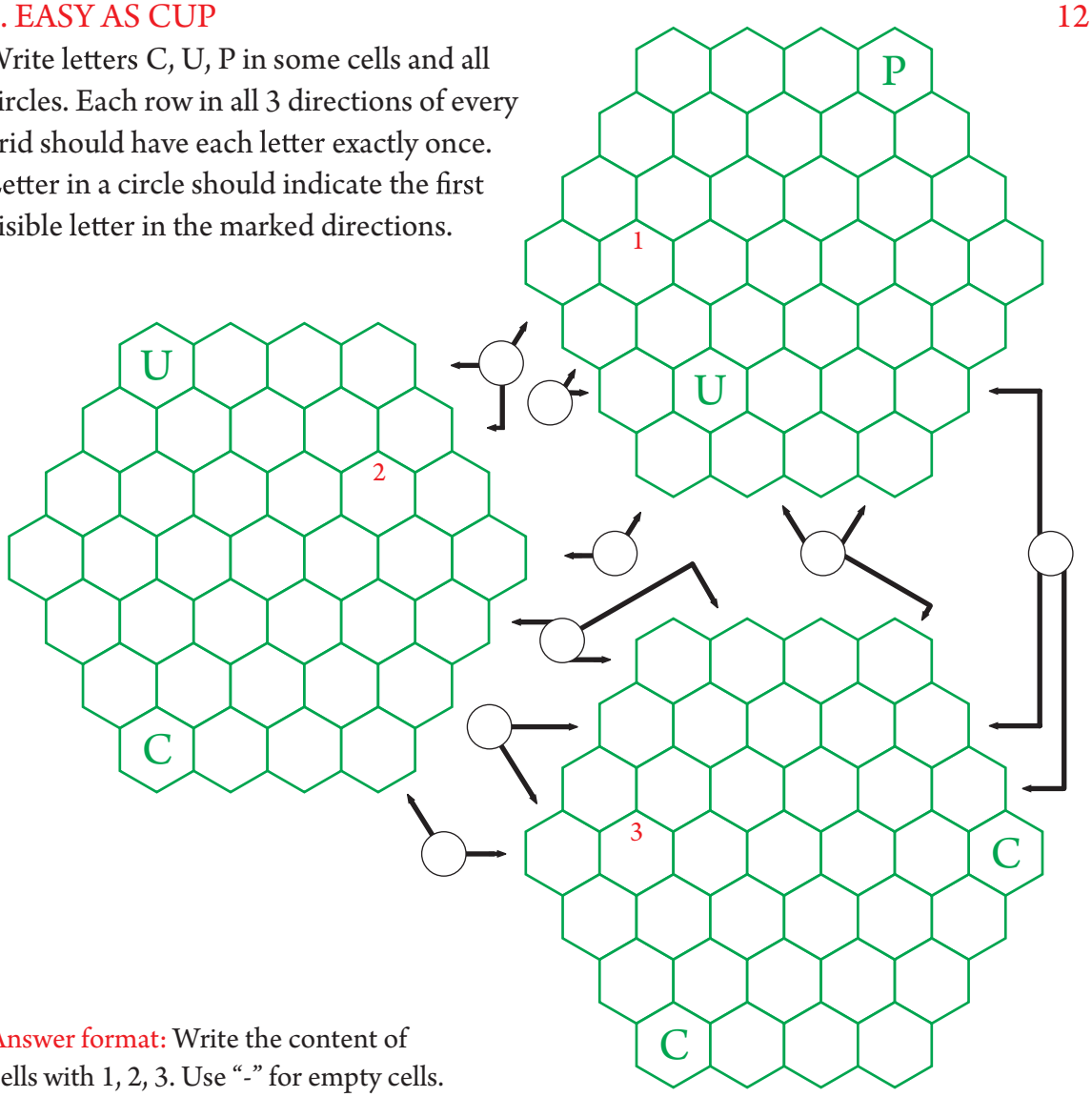


Answer format: Write the content of marked column from top to bottom.

7. EASY AS CUP

12 pt per each grid

Write letters C, U, P in some cells and all circles. Each row in all 3 directions of every grid should have each letter exactly once. Letter in a circle should indicate the first visible letter in the marked directions.



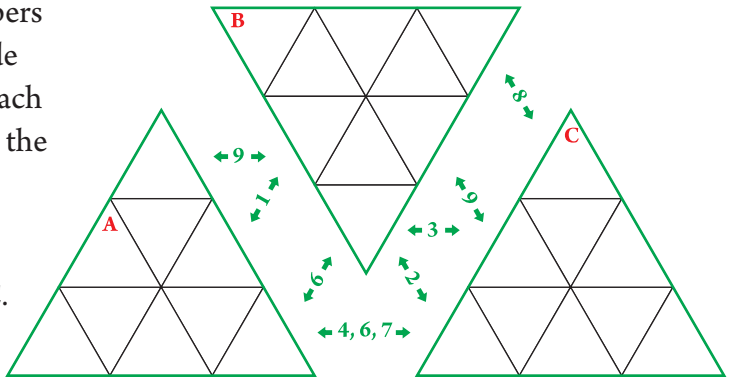
Answer format: Write the content of cells with 1, 2, 3. Use "-" for empty cells.

КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

8. TRIAD

10 pt per each grid

Place in the triangular cells of every grid the numbers from 1 to 9, each once. In cells with a common side may write only numbers that differ by at least 3. Each number outside of the grids show that it will meet the arrows directions (in two nearest grids).

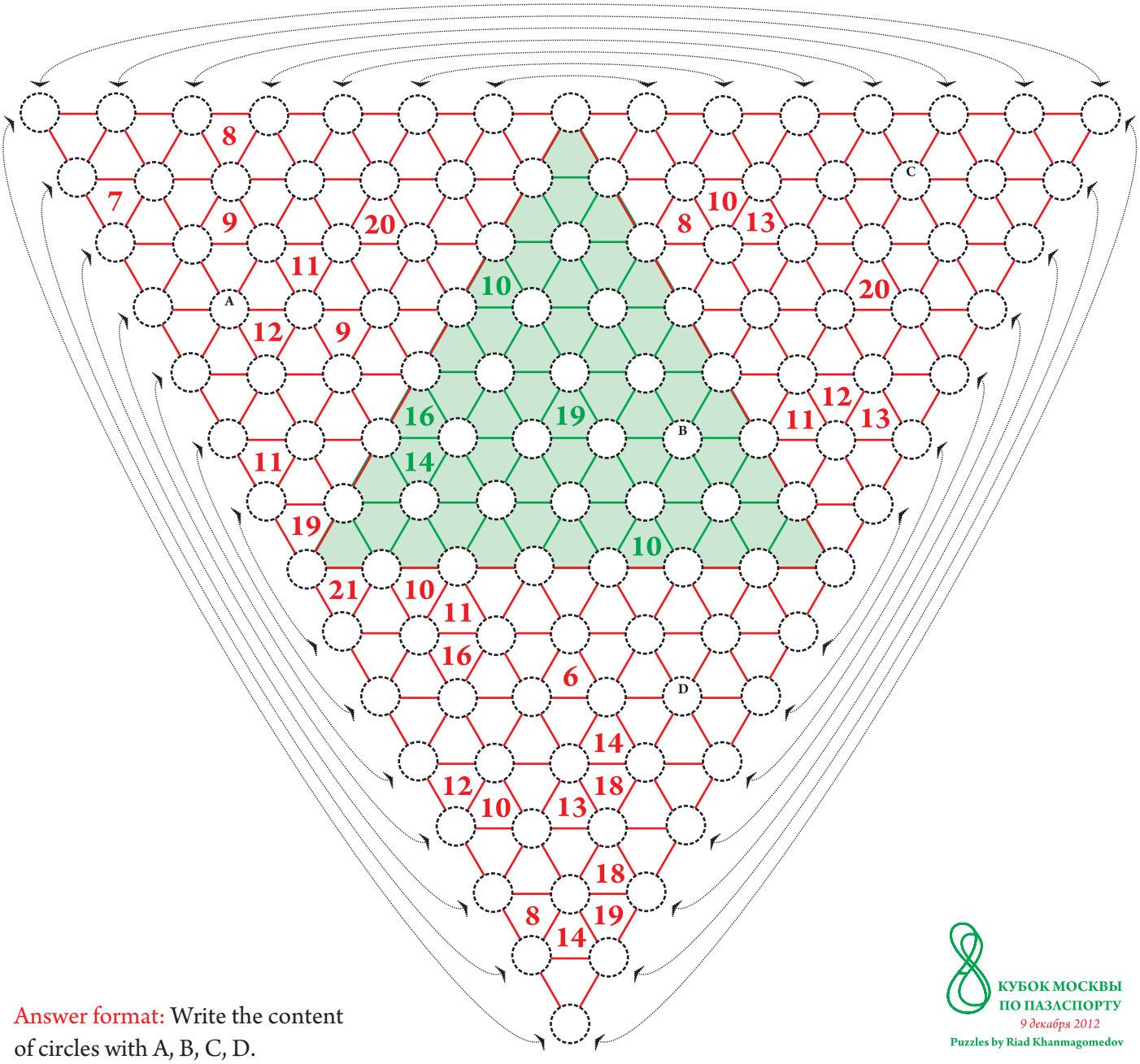


Answer format: Write the content of cells with A, B, C.

9.TRID ON TETRAHEDRON

18 pt per each grid

On each face of tetrahedron solve puzzle Trid: Write digits 1 to 8 into the circles. Digits in one line should be different. Each number in a triangle equals to the sum of digits in the triangle's vertices.
Circles on the edges of tetrahedron are shared for two Trids, and on his tops – for three. The arrows indicate the pair of circles that overlap each other when gluing a tetrahedron.



Answer format: Write the content of circles with A, B, C, D.

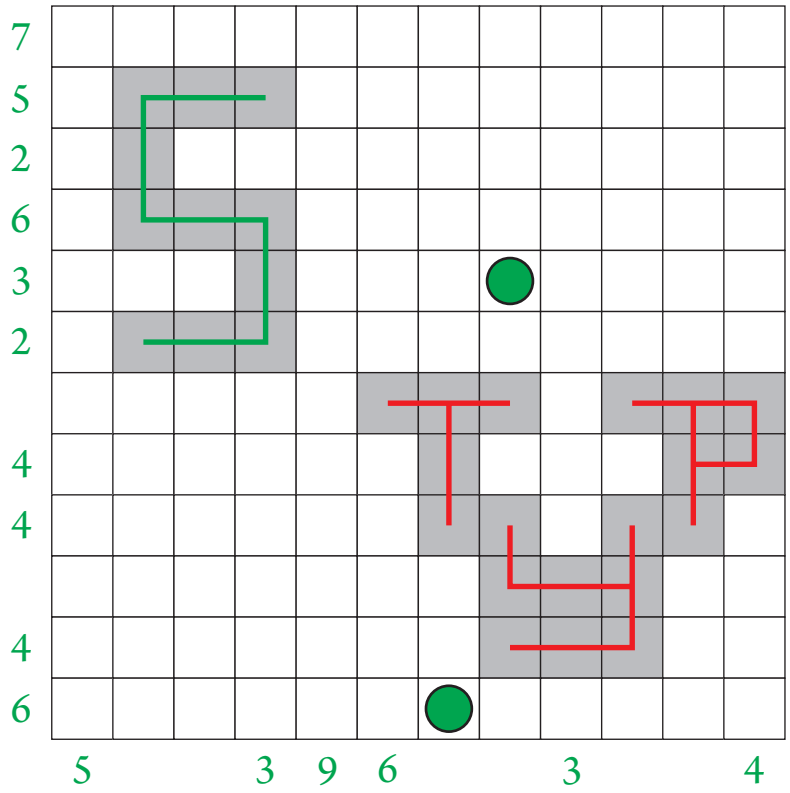
КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

10. SNAKE

13 + 15 pt

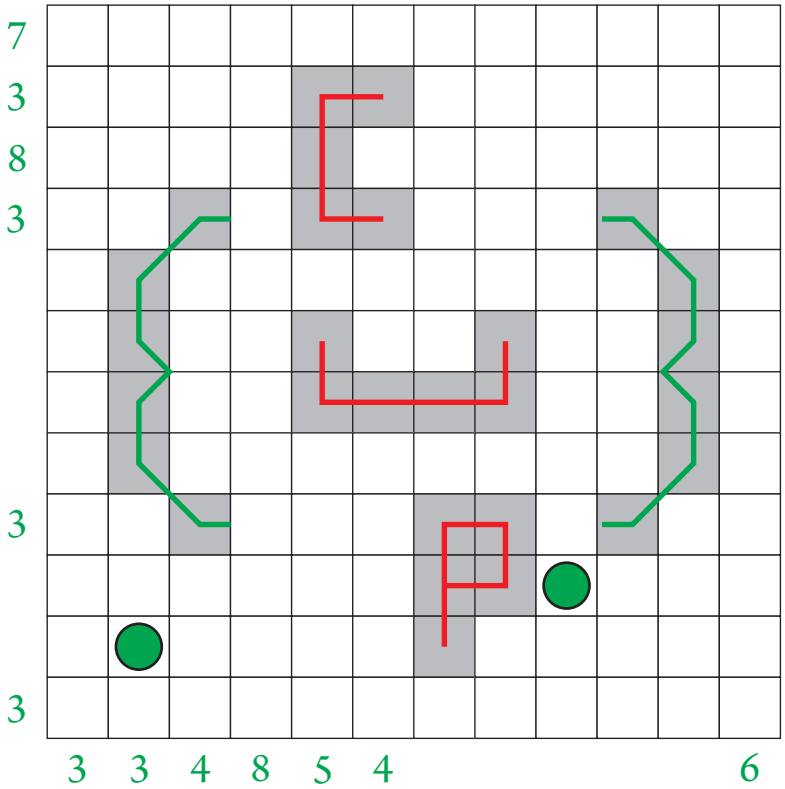
Locate in white cells a snake, 45 cells long, that travels horizontally and vertically without touching itself. Its head and tail a marked by circles. Numbers outside the grid indicate the amount of snake segments in corresponding directions.

1



Answer format: Write the number of snake turns.

2

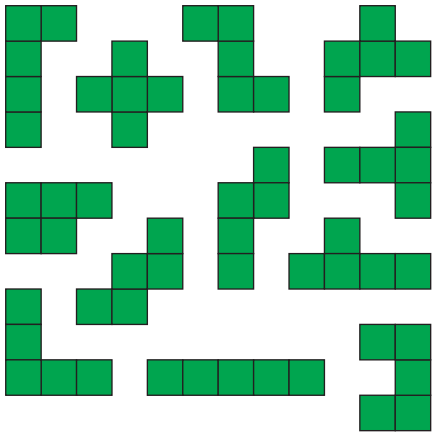


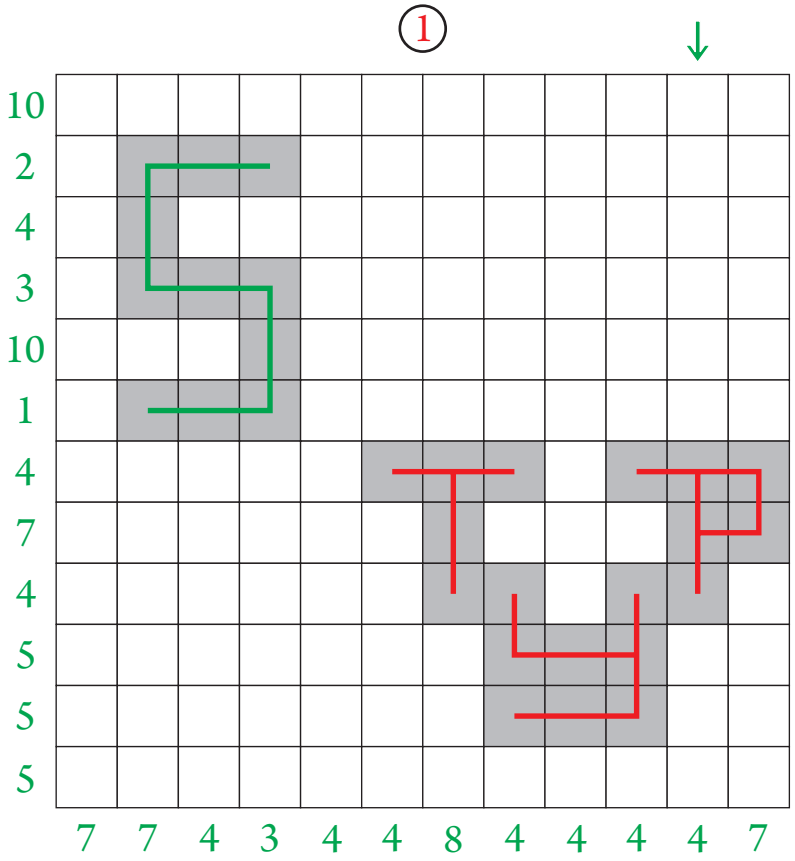
КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

11. PENTOMINO

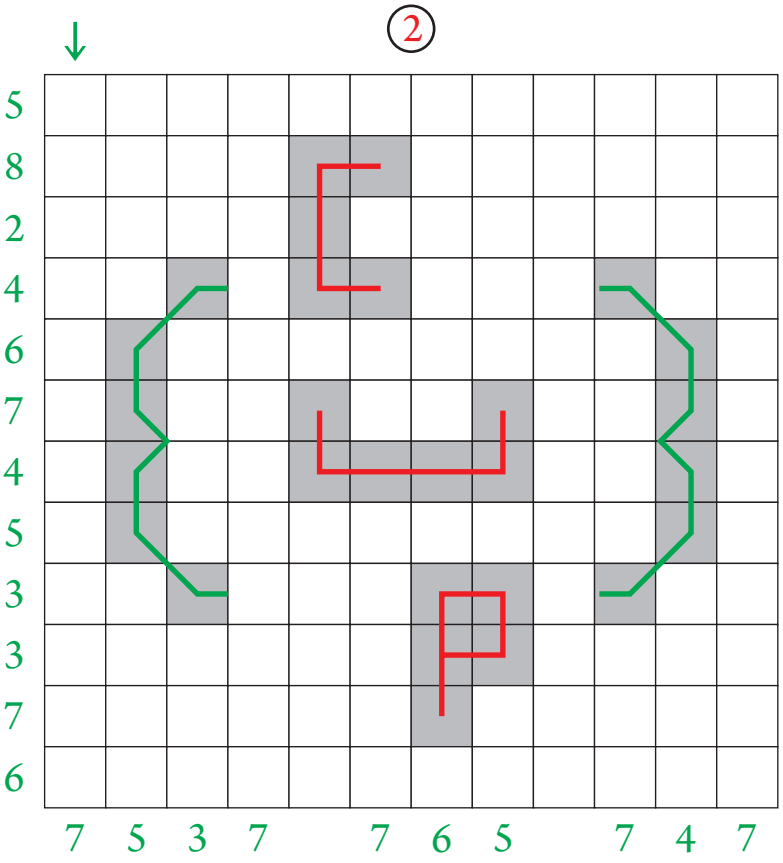
36 + 61 pt

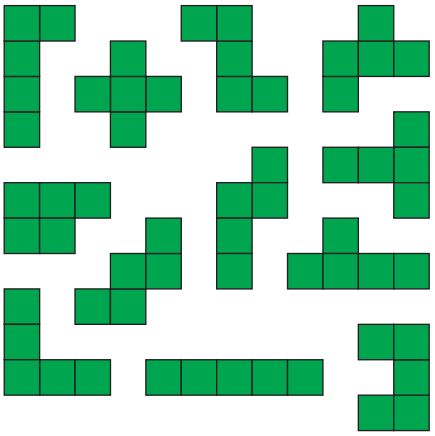
Place the given pentominoes in the white cells. Pentominoes may be rotated but not mirrored. They cannot touch each other, not even diagonally. Numbers outside the grid show how many cells are occupied by the pentominoes in corresponding directions.





Answer format: Write the content of marked column from top to bottom. Use "P" for cells which occupied by the pentaminoes, "-" for each other cell.





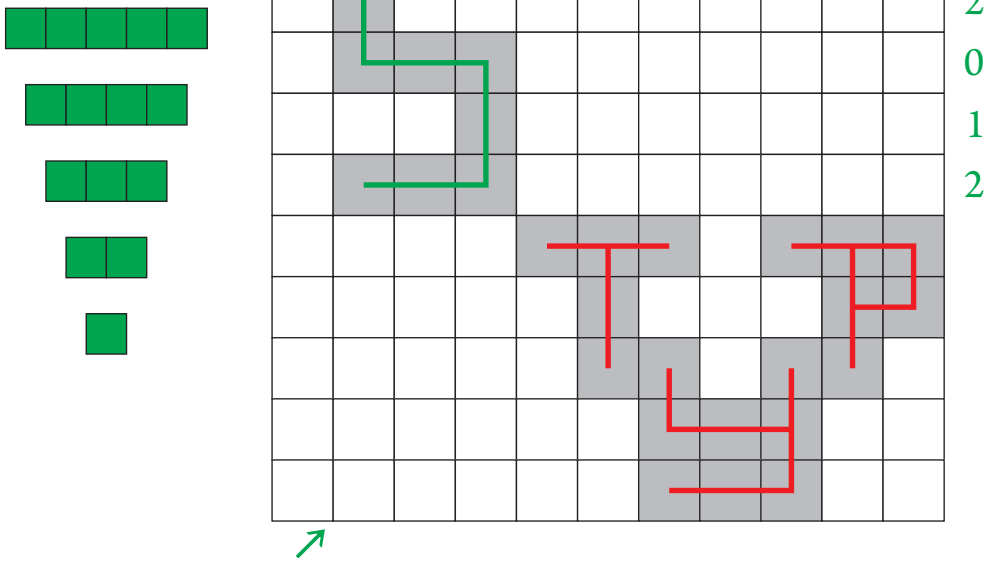
КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

12. FIVE SHIPS

10 + 22 pt

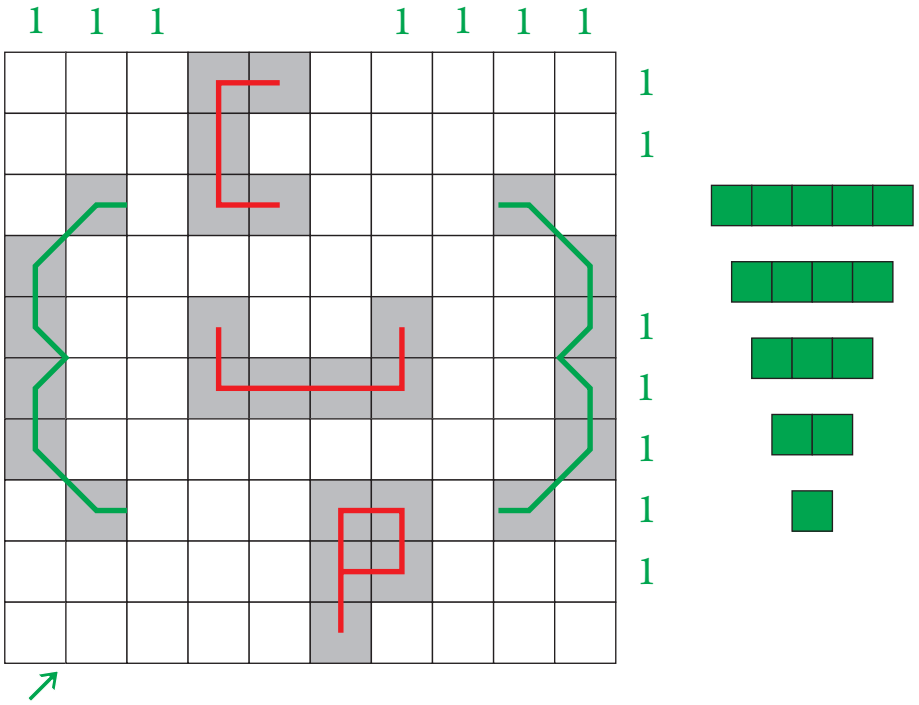
Place the given fleet in the white cells. Ships may be rotated. They cannot touch each other, not even diagonally. Numbers outside the grid show how many cells are occupied by the ships in corresponding directions.

①



Answer format: Write the dimensions of all ships in marked diagonal from bottom to top.

②



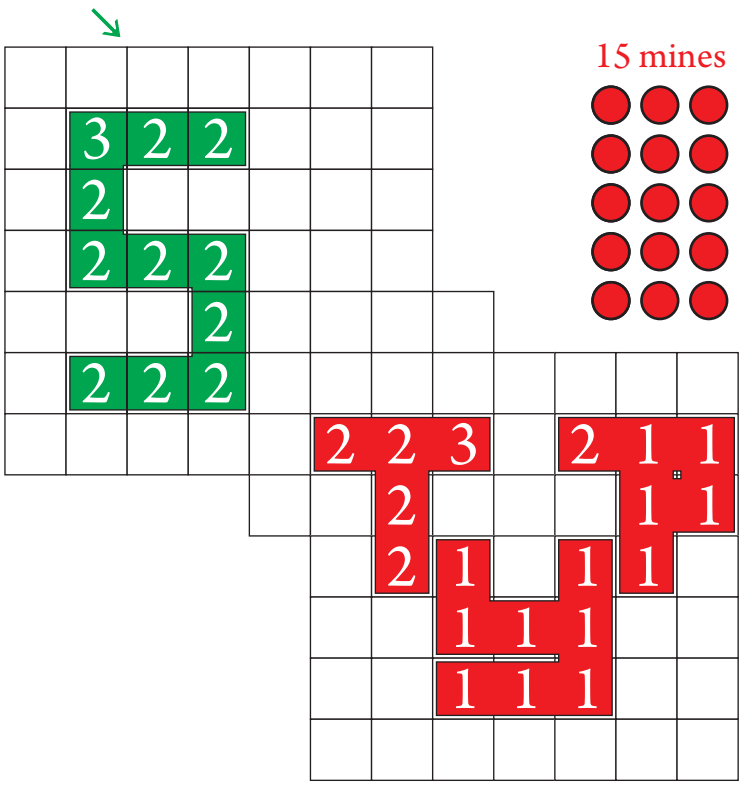
КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov

13. MINESWEEPER

13 + 10 pt

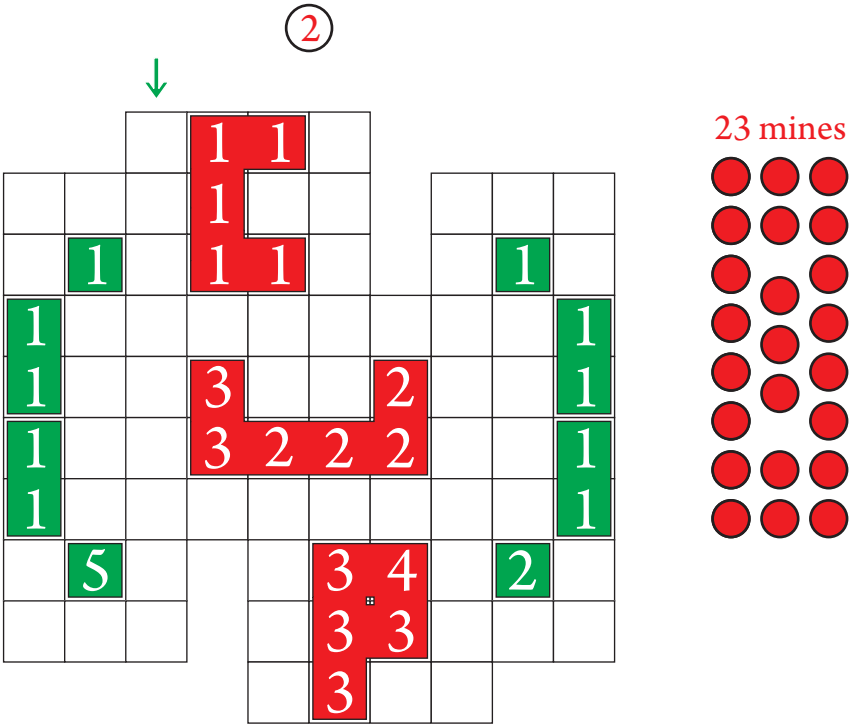
Locate the given mines in the grid, one mine per cell. Its cannot occupy cells with digits. Each number in the grid show how many mines are located in the horizontally, vertically and diagonally adjacent empty cells.

① 15 mines



Answer format: Write the quantity of mines in marked direction.

② 23 mines



КУБОК МОСКВЫ ПО ПАЗЛСПОРТУ
9 декабря 2012
Puzzles by Riad Khanmagomedov