HALAS League Online

October 26-29, 2012

Booklet

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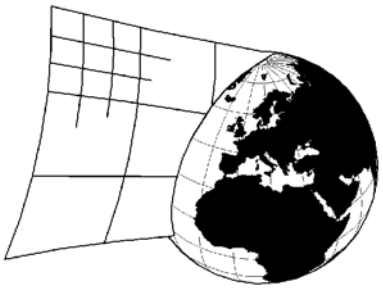

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October 26-29, 2012

Sudoku Round 1

the list of puzzles — the time to solve: 90 minutes

1.	Classic sudoku 6x6	?? points
2.	Classic sudoku 6x6	?? points
3.	Classic sudoku 6x6	?? points
4.	Classic sudoku 9x9	?? points
5.	Classic sudoku 9x9	?? points
6.	Classic sudoku 9x9	?? points
7.	Classic sudoku 9x9	?? points
8.	Classic sudoku 8x8	?? points
9.	Extraregion	?? points
10.	Odd sudoku	?? points
11.	Even sudoku	?? points
12.	Nonconsecutive	?? points
13.	Untouchable sudoku	?? points
14.	Disjoint groups	?? points
15.	Symetric unequal	?? points
16.	Antiknight	?? points
17.	Queens	?? points
18.	Quadro	?? points
19.	Touchy	?? points
20.	DuoDoku	?? points

total number of points: ???

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Sudoku Round 2

the list of puzzles — the time to solve: 90 minutes

1.	Irregular sudoku 7x7	?? points
2.	Irregular sudoku 8x8	?? points
3.	Snowflake	?? points
4.	Snowflake	?? points
5.	Triangles	?? points
6.	Triangles	?? points
7.	Star	?? points
8.	Star	?? points
9.	Dance Floor	?? points
10.	Parket	?? points
11.	Isosudoku	?? points
12.	Isosudoku	?? points
13.	3D sudoku	?? points
14.	3D sudoku	?? points
15.	Primrose	?? points
16.	Penrose	?? points
17.	SudoCurve	?? points
18.	Square Madness	?? points
19.	Shifted sudoku	?? points
20.	SudokuBall	?? points

total number of points: ???

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Puzzles Round 1

the list of puzzles — the time to solve: 90 minutes

1.	Sudokuro	?? points
2.	Sudokuro	?? points
3.	Sudokuro	?? points
4.	Domino	?? points
5.	Domino	?? points
6.	Domino	?? points
7.	Fences	?? points
8.	Fences	?? points
9.	Fences	?? points
10.	Five times five	?? points
11.	Five times five	?? points
12.	Five times five	?? points
13.	Easy as 2nd ABC	?? points
14.	Easy as 2nd ABC	?? points
15.	Easy as 2nd ABC	?? points
16.	Pyramid	?? points
17.	Pyramid	?? points
18.	Pyramid	?? points

total number of points: ???

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Puzzles Round 2

the list of puzzles — the time to solve: 90 minutes

1.	Sum between	?? points
2.	Sum between	?? points
3.	Sum between	?? points
4.	Skyscrapers	?? points
5.	Skyscrapers	?? points
6.	Skyscrapers	?? points
7.	Sum around	?? points
8.	Sum around	?? points
9.	Sum around	?? points
10.	Pentosnake	?? points
11.	Pentosnake	?? points
12.	Pentosnake	?? points
13.	Railway	?? points
14.	Railway	?? points
15.	Railway	?? points
16.	Password path	?? points
17.	Wordsearch	?? points
18.	Scrrabble	?? points

total number of points: ???

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Sudoku: Round 1

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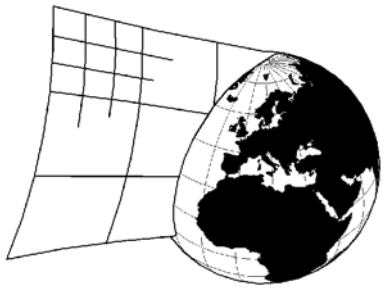

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Classic sudoku 6x6

Write a single digit from 1 to 6 into each cell so that no digit can be repeated in a row, column and marked 2x3 rectangle.

			5		
3	1				
			6		4
4		1			
				2	5
		3			

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

Classic sudoku 9x9

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.

	6		1		4			
2						4	6	
			5				8	
7		4		2				3
			9				4	
9						2		8
	2				7			
	1	5		8				6
			2		6		5	

5	6	8	1	9	4	3	7	2
2	9	1	8	7	3	4	6	5
3	4	7	5	6	2	1	8	9
7	8	4	6	2	1	5	9	3
1	5	2	9	3	8	6	4	7
9	3	6	7	4	5	2	1	8
6	2	9	4	5	7	8	3	1
4	1	5	3	8	9	7	2	6
8	7	3	2	1	6	9	5	4

Classic sudoku 8x8

Write a single digit from 1 to 8 into each cell so that no digit can be repeated in a row, column and marked 2x4 rectangle.

	2					7	
7		5			1		4
	5	4			2	8	
			5	4			
			1	7			
	3	8			6	2	
5		3			7		2
	1					5	

3	2	1	4	6	5	7	8
7	6	5	8	2	1	3	4
6	5	4	3	1	2	8	7
1	7	2	5	4	8	6	3
2	8	6	1	7	3	4	5
4	3	8	7	5	6	2	1
5	4	3	6	8	7	1	2
8	1	7	2	3	4	5	6

Extraregion

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Nine grey cells contain nine different digits.

	7			8			9	
			6		7			
2				1				3
	5	3				2	1	
			7		4			
	8	6				4	5	
8				6				2
			2		9			
	2			3			4	

6	7	5	3	8	2	1	9	4
3	9	1	6	4	7	8	2	5
2	4	8	9	1	5	7	6	3
4	5	3	8	9	6	2	1	7
9	1	2	7	5	4	6	3	8
7	8	6	1	2	3	4	5	9
8	3	9	4	6	1	5	7	2
5	6	4	2	7	9	3	8	1
1	2	7	5	3	8	9	4	6

Odd sudoku

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Grey cells contain odd digits only.

	9						7	5
6		2	7	1				
	7			6			1	
	1				4			
	6	9				7		4
			6					2
				8				
4		6					5	7
7				3	6		4	

1	9	3	2	4	8	6	7	5
6	8	2	7	1	5	4	3	9
5	7	4	3	6	9	2	1	8
2	1	7	8	9	4	5	6	3
3	6	9	1	5	2	7	8	4
8	4	5	6	7	3	1	8	2
9	5	1	4	8	7	3	2	6
4	3	6	9	2	1	8	5	7
7	2	8	5	3	6	9	4	1

Even sudoku

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Grey cells contain even digits only.

	8	2	1		9			
			6		2		5	
		9						
1					3		9	5
6								
		7					2	6
			3			6		8
8	9							7
	7			4	5			

5	8	2	1	7	9	3	6	4
4	1	3	6	8	2	7	5	9
7	6	9	5	3	4	2	8	1
1	2	8	7	6	3	4	9	5
6	4	5	9	2	8	1	7	3
9	3	7	4	5	1	8	2	6
2	5	1	3	9	7	6	4	8
8	9	4	2	1	6	5	3	7
3	7	6	8	4	5	9	1	2

Nonconsecutive

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
No pair of cells sharing an edge can contain consecutive digits.

	5			8				
3							2	
	6							
		8						7
			7		6		1	
		7						9
	4							
1							9	
	2			7				

7	5	2	4	8	3	9	6	1
3	8	4	9	6	1	7	2	5
9	6	1	5	2	7	4	8	3
6	3	8	1	9	4	2	5	7
2	9	5	7	3	6	8	1	4
4	1	7	2	5	8	6	3	9
8	4	9	6	1	5	3	7	2
1	7	3	8	4	2	5	9	6
5	2	6	3	7	9	1	4	8

Untouchable sudoku

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Cells with the same digit do not touch, not even diagonally.

		5			3		4	
2		3			6			
				1			2	6
9	3			6				
		4	3		7	2		
				9			8	3
3	4			8				
			4			6		5
	9		6			8		

8	6	5	9	2	3	1	4	7
2	1	3	7	4	6	9	5	8
4	7	9	5	1	8	3	2	6
9	3	2	8	6	4	5	7	1
1	8	4	3	5	7	2	6	9
6	5	7	2	9	1	4	8	3
3	4	6	1	8	5	7	9	2
7	2	8	4	3	9	6	1	5
5	9	1	6	7	2	8	3	4

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Disjoint groups

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Nine cells at the same position in a 3x3 box contain nine different digits.

5			7					4
				6		5		
	4		5		3			
		7				1		9
	2						3	
1		4				8		
			3		6		7	
		1		9				
2					7			1

5	8	3	7	2	1	9	6	4
7	1	2	9	6	4	5	8	3
9	4	6	5	8	3	7	1	2
6	5	7	8	3	2	1	4	9
8	2	9	1	4	5	6	3	7
1	3	4	6	7	9	8	2	5
4	9	5	3	1	6	2	7	8
3	7	1	2	9	8	4	5	6
2	6	8	4	5	7	3	9	1

Symmetric unequal

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
There are 40 pairs of cells symmetric according to a 180° rotation. Two digits in such two cells should be different.

			9		3			
		8				5		
	9						2	
7			5		4			2
		4		1		6		
	6		8		2		3	
3		2				7		8
	7						4	
1								9

5	2	7	9	4	3	8	1	6
6	3	8	1	2	7	5	9	4
4	9	1	6	8	5	3	2	7
7	1	3	5	6	4	9	8	2
2	8	4	3	1	9	6	7	5
9	6	5	8	7	2	4	3	1
3	5	2	4	9	1	7	6	8
8	7	9	2	5	6	1	4	3
1	4	6	7	3	8	2	5	9

Antiknight

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Two cells with the same digit cannot be connected with one chess-knight jump.

			4		3			
5								2
	4						9	
		7				1		
			5		6			
		5				8		
	3						8	
7								4
			8		1			

9	7	2	4	5	3	6	1	8
5	8	6	9	1	7	3	4	2
1	4	3	6	2	8	7	9	5
4	9	7	3	8	2	1	5	6
8	2	1	5	9	6	4	3	7
3	6	5	1	7	4	8	2	9
6	3	9	7	4	5	2	8	1
7	1	8	2	3	9	5	6	4
2	5	4	8	6	1	9	7	3

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Queens

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
All digits 9 represent chess queens, these queens do not attack each other.

	2		5		3		4	
7			8		6			5
		1				8		
	4			6			1	
			7		4			
	6			8			7	
1		5				4		8
	8		2		7		5	
		2				6		

6	2	8	5	9	3	7	4	1
7	3	4	8	1	6	2	9	5
9	5	1	4	7	2	8	6	3
8	4	7	9	6	5	3	1	2
5	1	3	7	2	4	9	8	6
2	6	9	3	8	1	5	7	4
1	7	5	6	3	9	4	2	8
3	8	6	2	4	7	1	5	9
4	9	2	1	5	8	6	3	7

Quadro

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
There is no 2x2 square in the grid with 4 digits of same parity.

4								8
		5	8		4	1		
	2			3			5	
	9			1			8	
		1	9		6	7		
	8			4			1	
	3			6			9	
		6	5		3	2		
5								6

4	7	3	2	5	1	9	6	8
9	6	5	8	7	4	1	2	3
1	2	8	6	3	9	4	5	7
6	9	4	7	1	2	3	8	5
3	5	1	9	8	6	7	4	2
7	8	2	3	4	5	6	1	9
2	3	7	1	6	8	5	9	4
8	4	6	5	9	3	2	7	1
5	1	9	4	2	7	8	3	6

Touchy

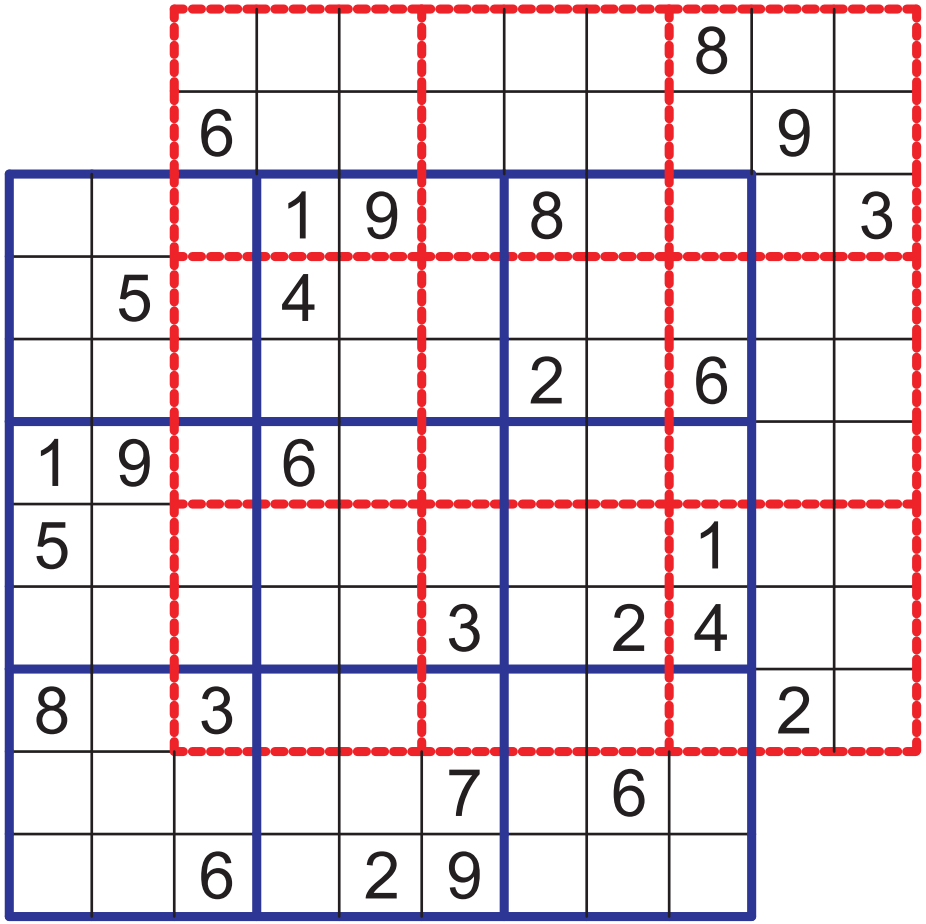
Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.
Each digit has at least one consecutive neighbour, in a cell sharing an edge.

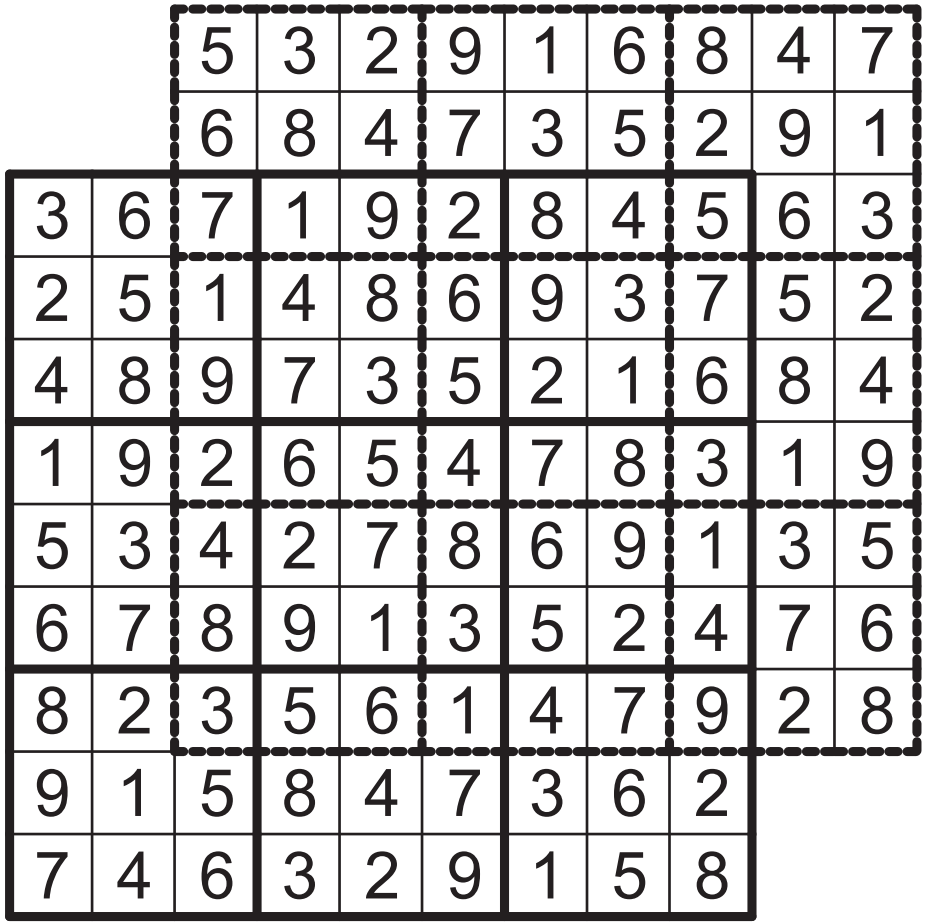
2	9				5			7
		4		6				8
			2				3	
6						2		
	1						7	
		3						1
	4				6			
8				9		7		
9			4				6	3

2	9	8	3	4	5	6	1	7
1	3	4	7	6	9	5	2	8
7	5	6	2	1	8	4	3	9
6	8	7	9	3	1	2	4	5
5	1	9	8	2	4	3	7	6
4	2	3	6	5	7	9	8	1
3	4	1	5	7	6	8	9	2
8	6	2	1	9	3	7	5	4
9	7	5	4	8	2	1	6	3

DuoDoku

The puzzle consists of two overlapping 9x9 Classics.





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Sudoku: Round 2

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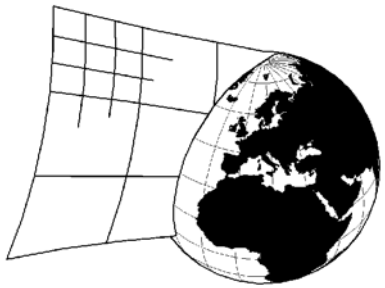

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Irregular sudoku

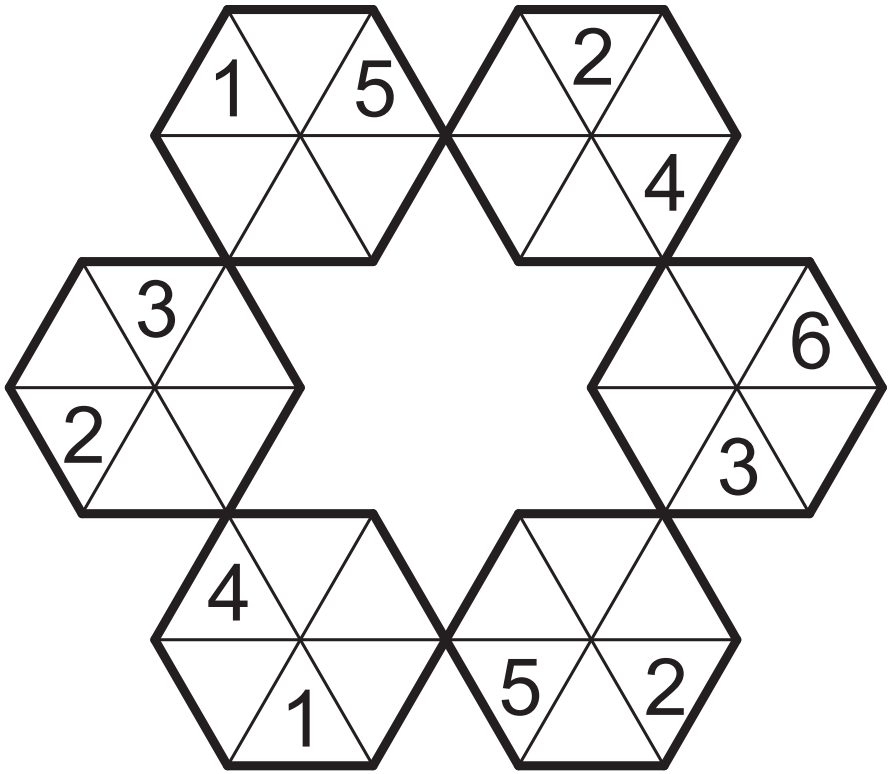
Write a single digit from 1 to 8 into each cell so that no digit can be repeated in a row, column and marked irregular region.

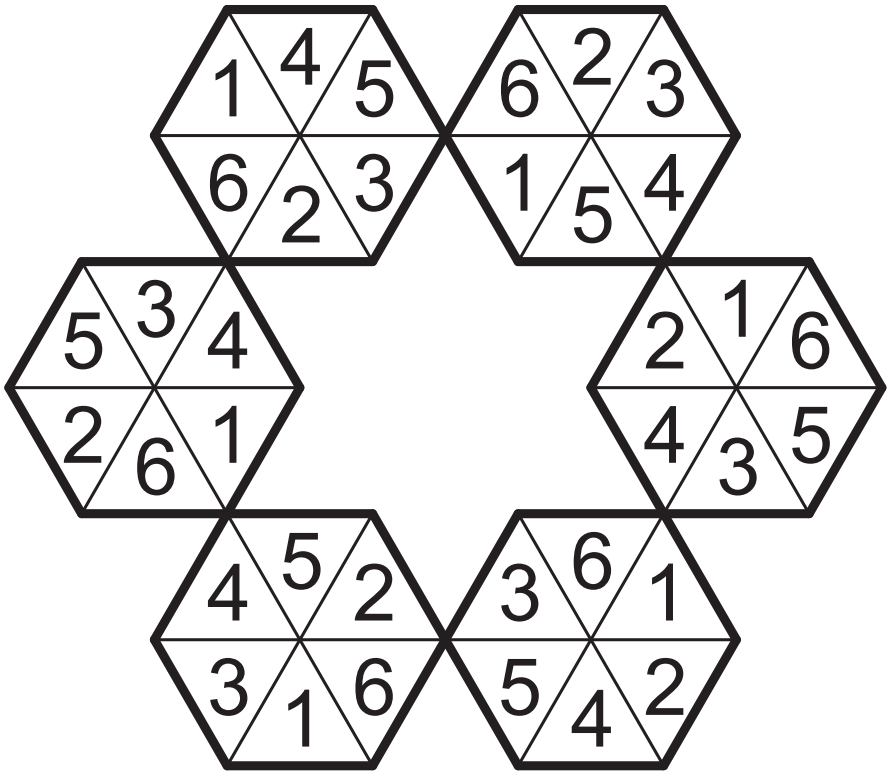
	2					1	
5	3					8	2
			5	6			
		6			3		
		2			5		
			1	7			
3	4					7	6
	5					3	

7	2	8	3	5	6	1	4
5	3	4	6	1	7	8	2
1	8	7	5	6	4	2	3
4	1	6	2	8	3	5	7
8	7	2	4	3	5	6	1
2	6	3	1	7	8	4	5
3	4	5	8	2	1	7	6
6	5	1	7	4	2	3	8

Snowflake

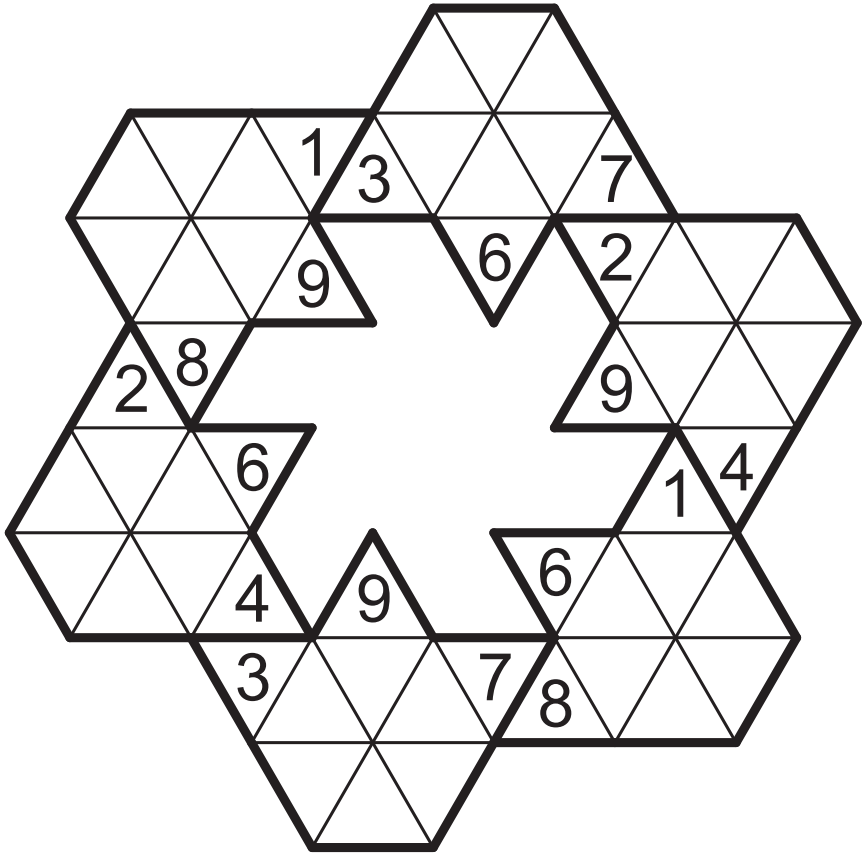
Write a single digit from 1 to 6 into each cell so that no digit can be repeated in marked hexagons and in rows of three directions.

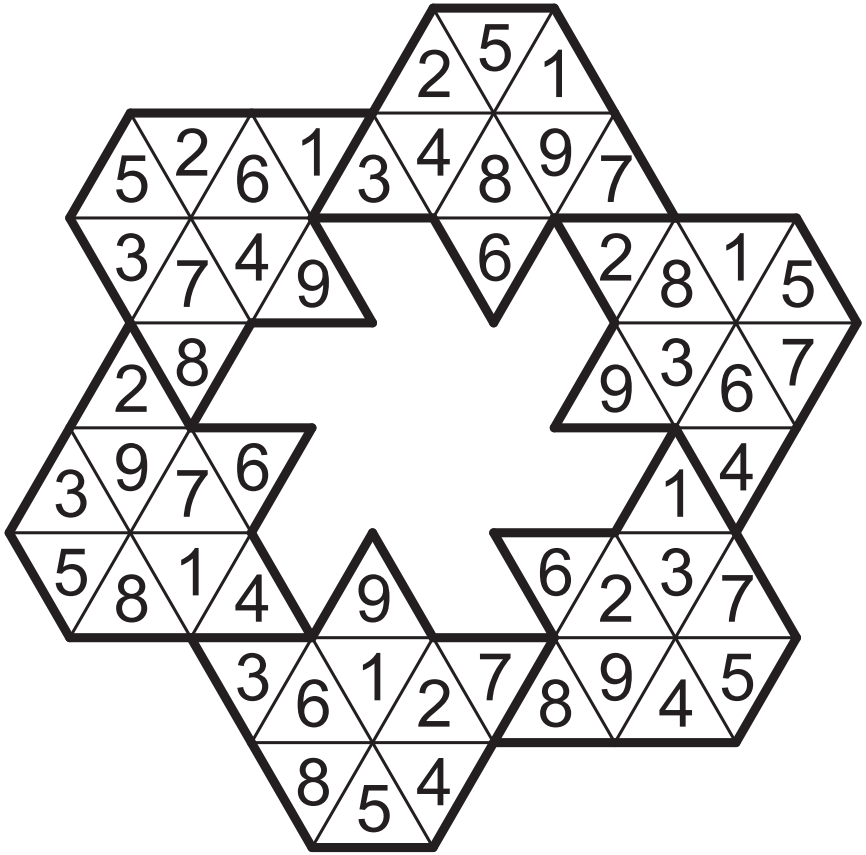




Triangles

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in marked areas and in rows of three directions.





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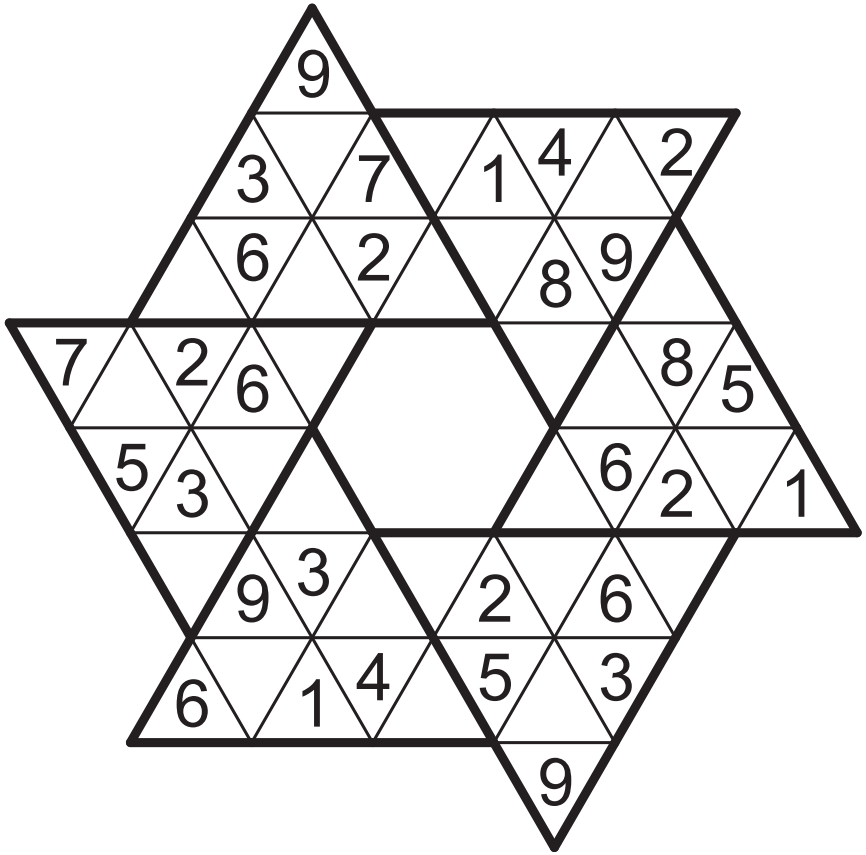
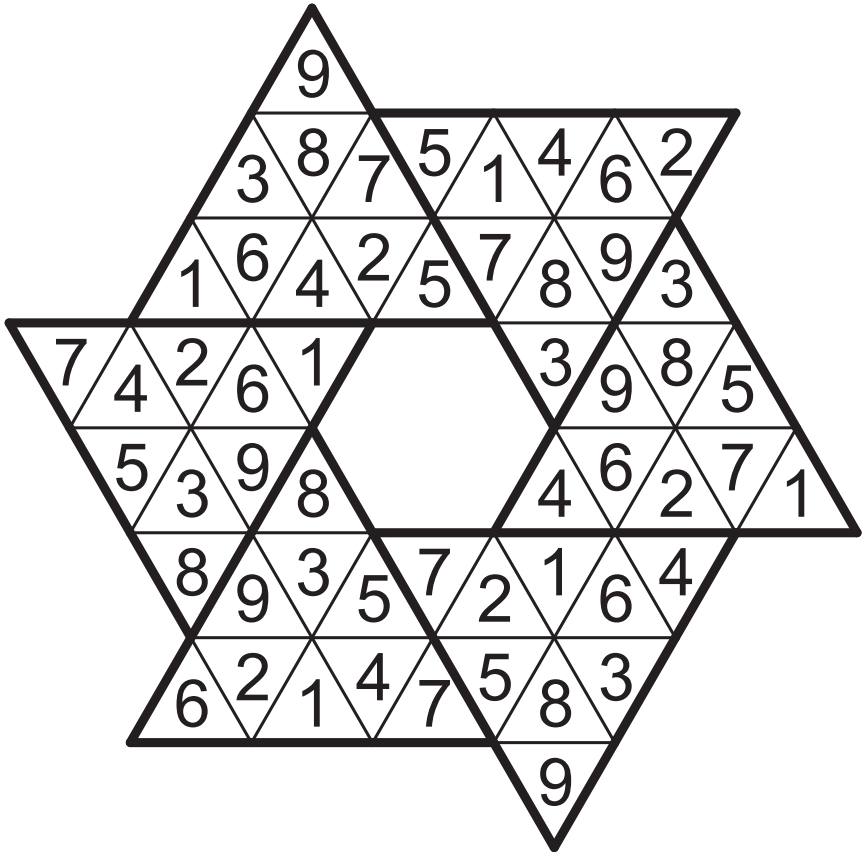
Star

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in marked big triangles and in rows of three directions.





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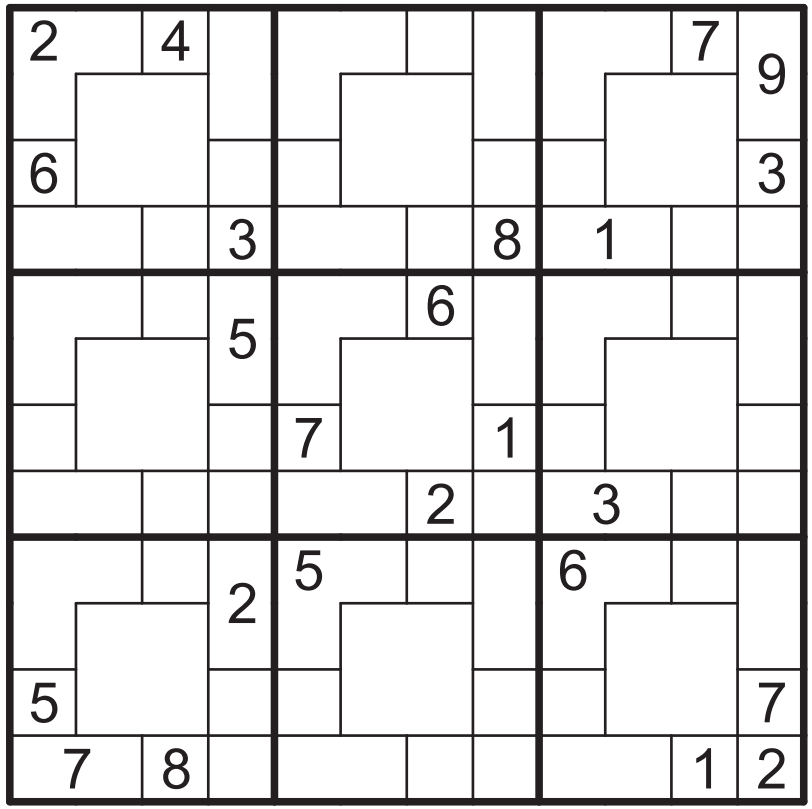
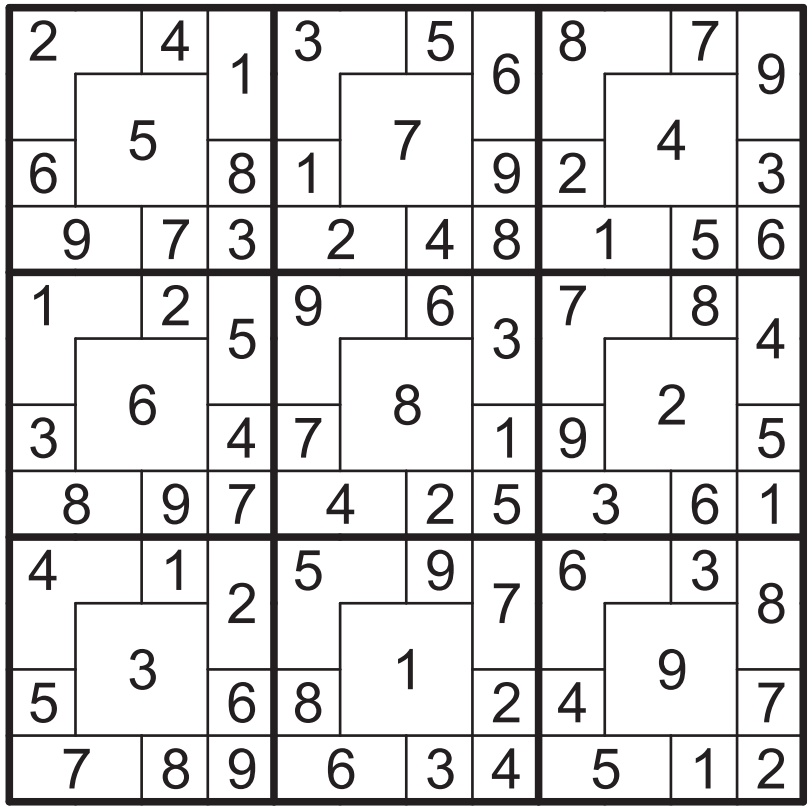
Parket

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked box.

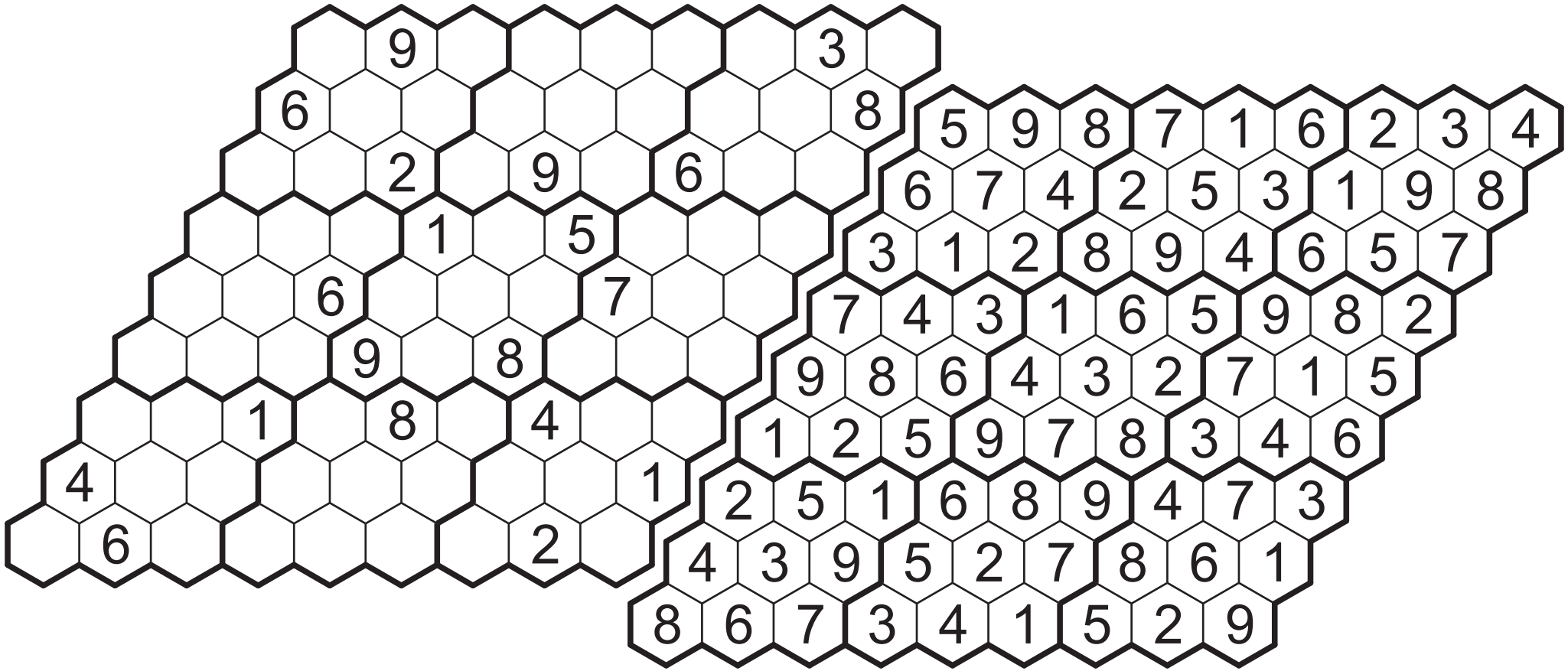
Be careful!
The actual competition puzzles will have slightly different shape. Read again the rules!





Isosudoku

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in marked areas and rows of three directions.



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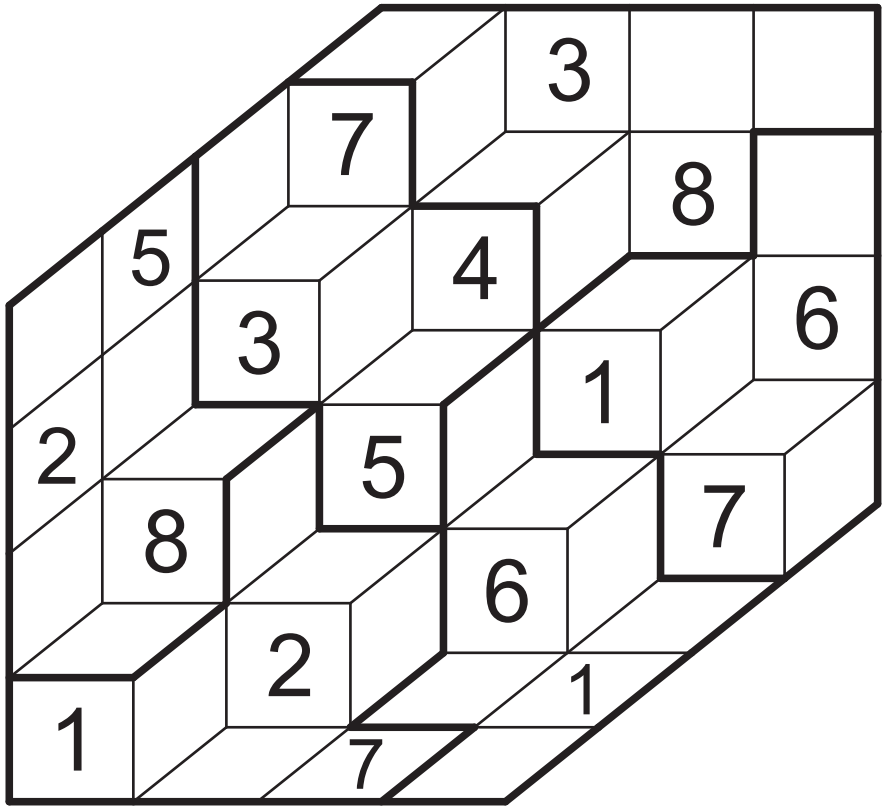
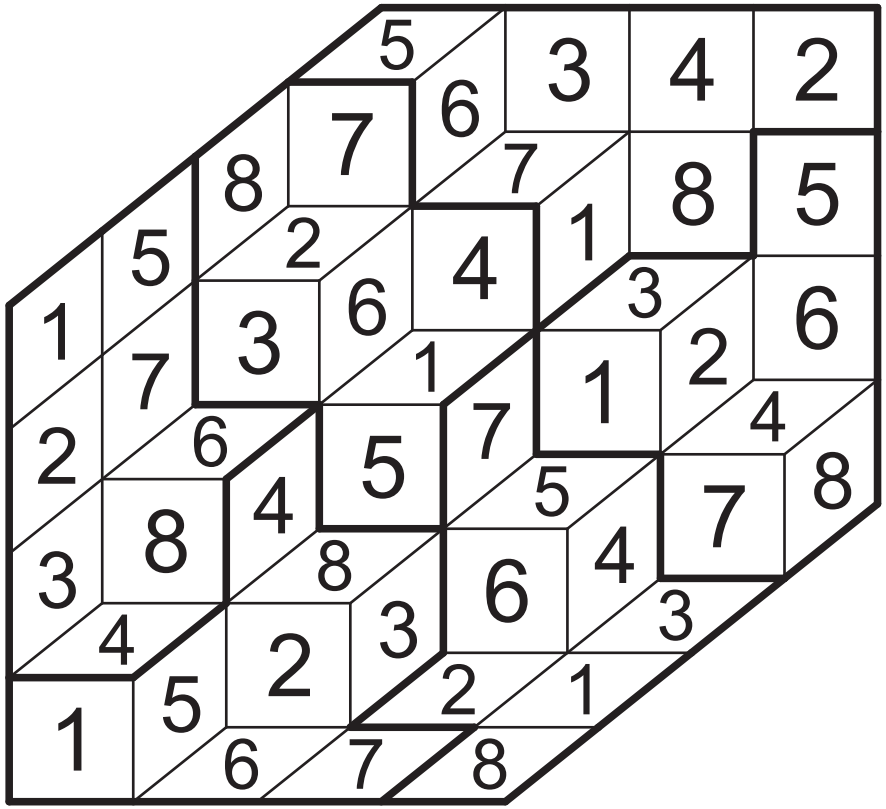
3D sudoku

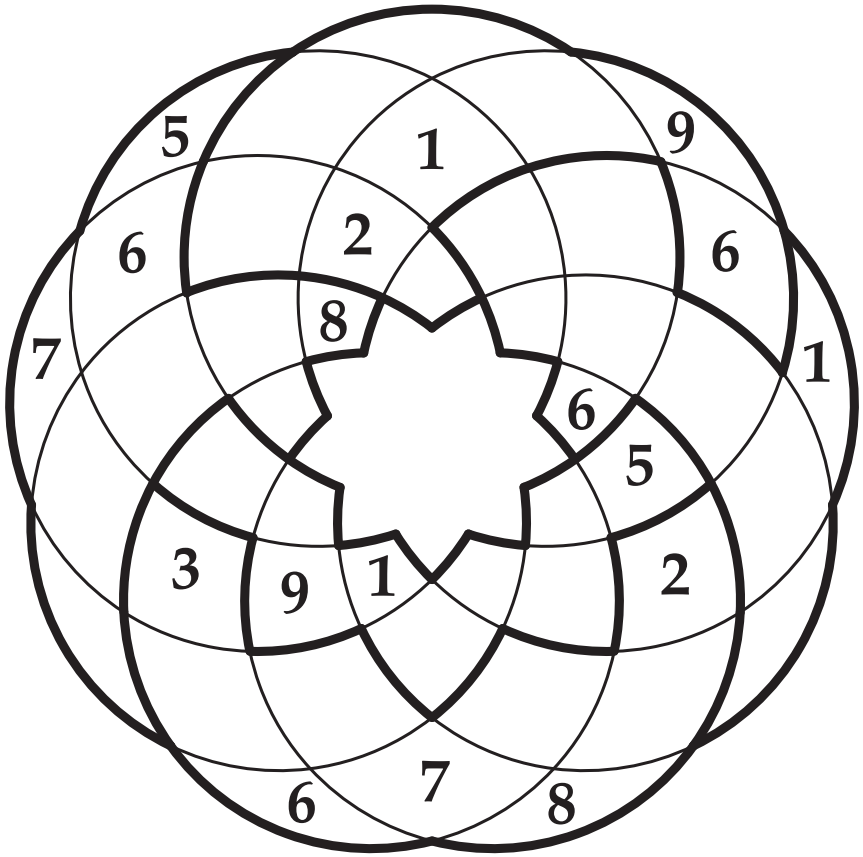
Write a single digit from 1 to 8 into each cell so that no digit can be repeated in marked areas and rows of three directions. (Each row consists of 8 quadrilaterals sharing opposite edges.)

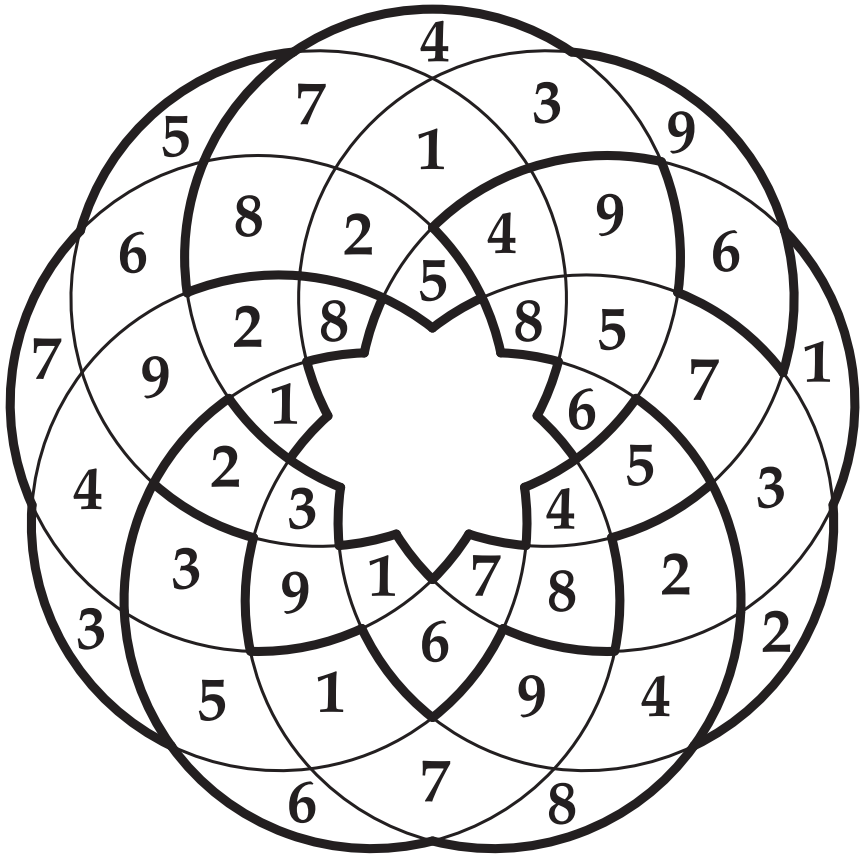




Primrose

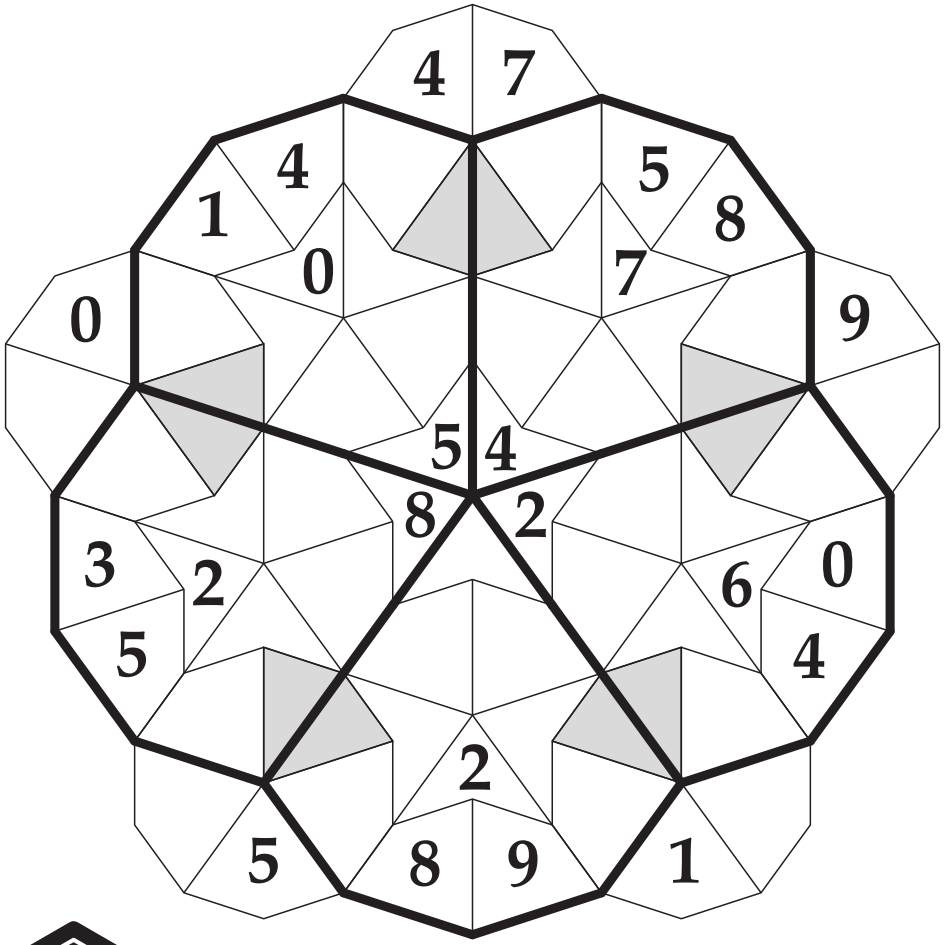
Write a single digit from 1 to 9 into each cell so that no digit can be repeated in marked areas. The nine cells touching the inside edge of nine circles contain also all digits 1 to 9.

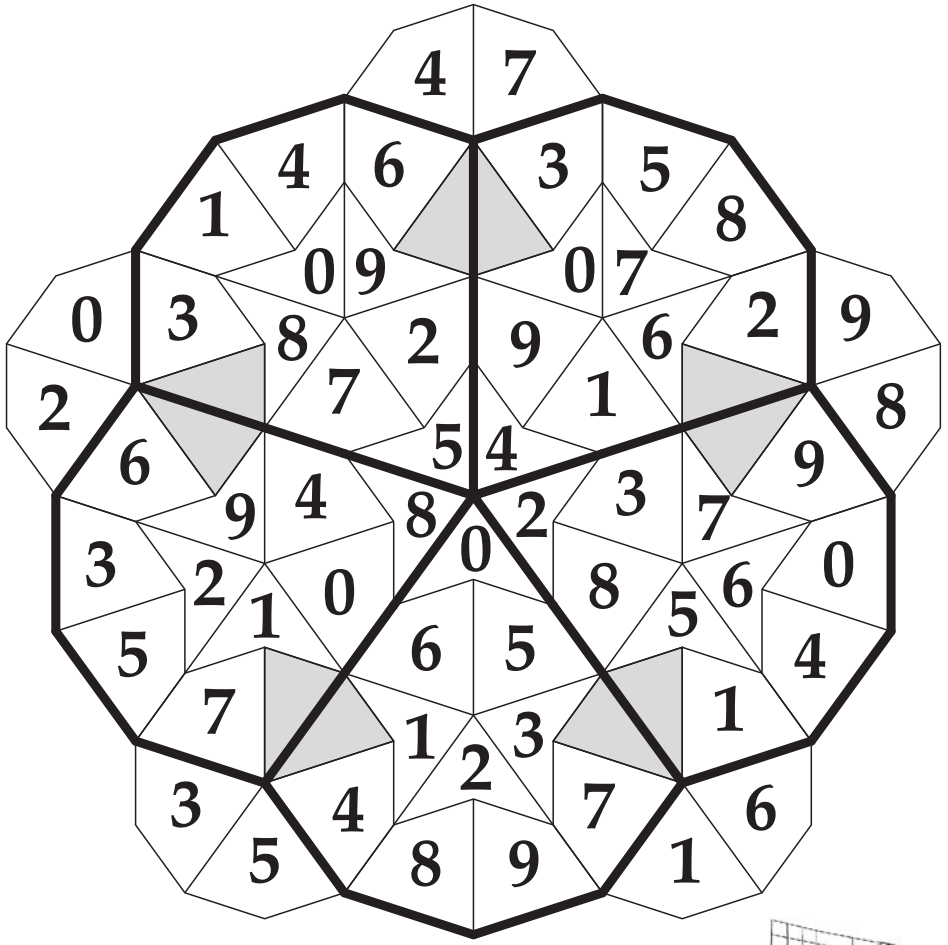




Penrose

The digits 0-9 appear once in each of the 5 outlined regions and each of the 10 “rows.” A “row” follows the opposite side of each quadrilateral.





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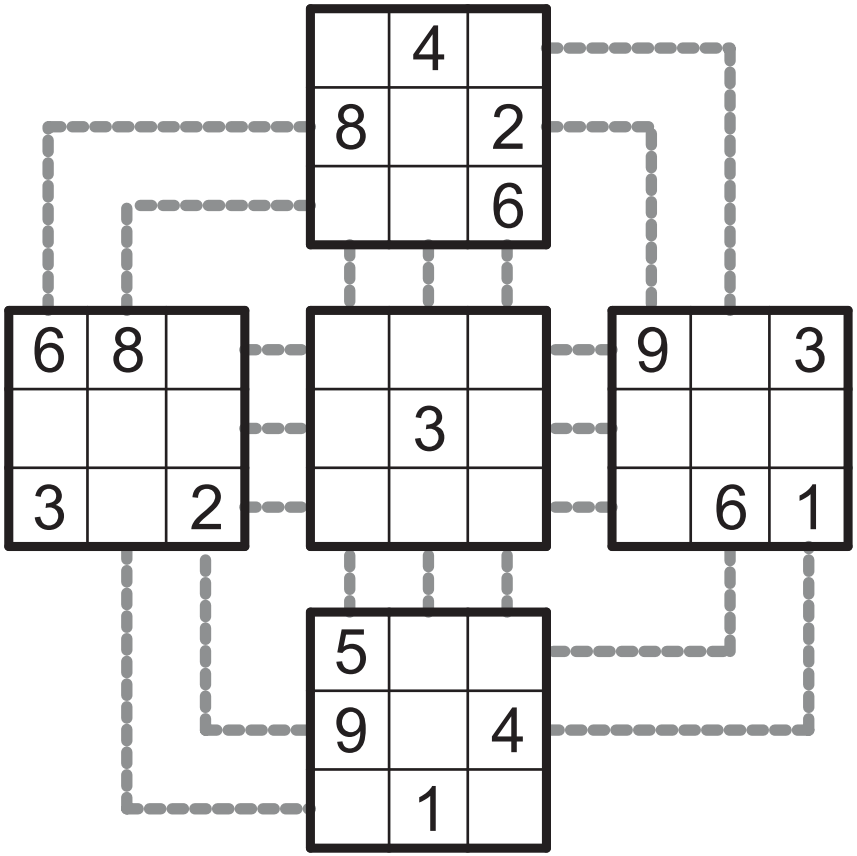
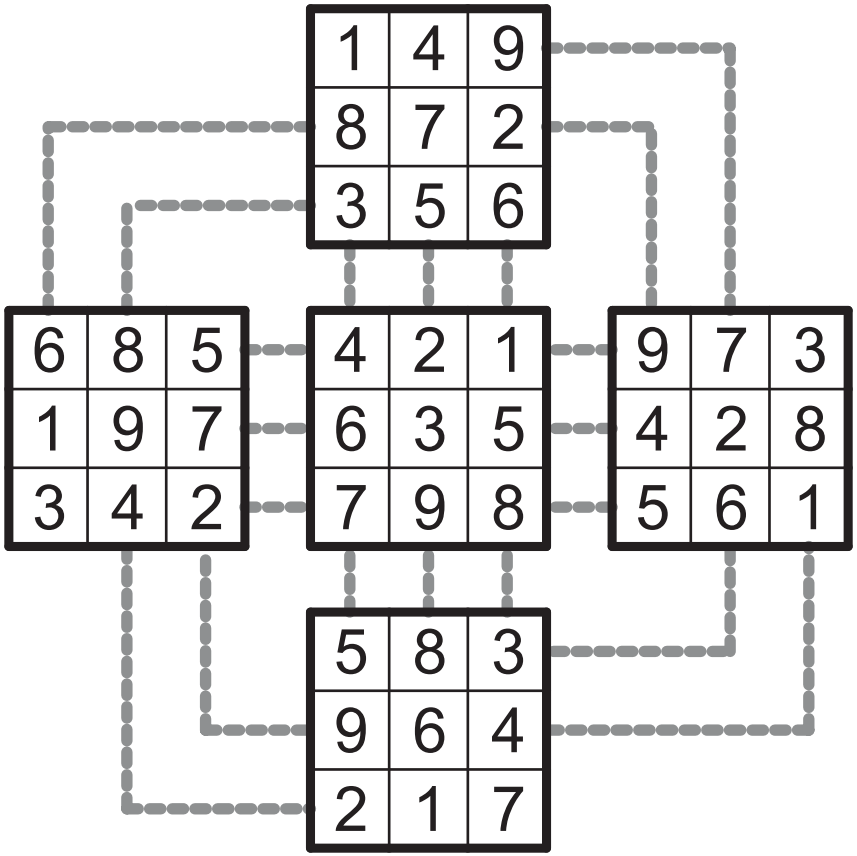
SudoCurve

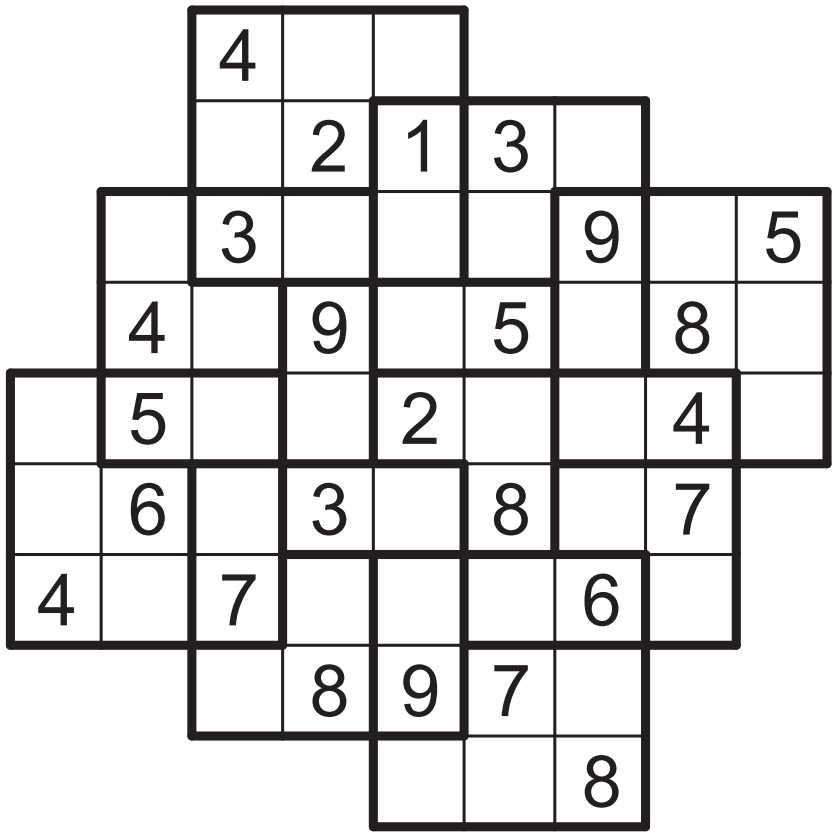
The digits 1-9 appear once in each of the six 3×3 boxes and 12 bent "rows" (indicated by light curved lines). All "rows" contain exactly 9 cells.

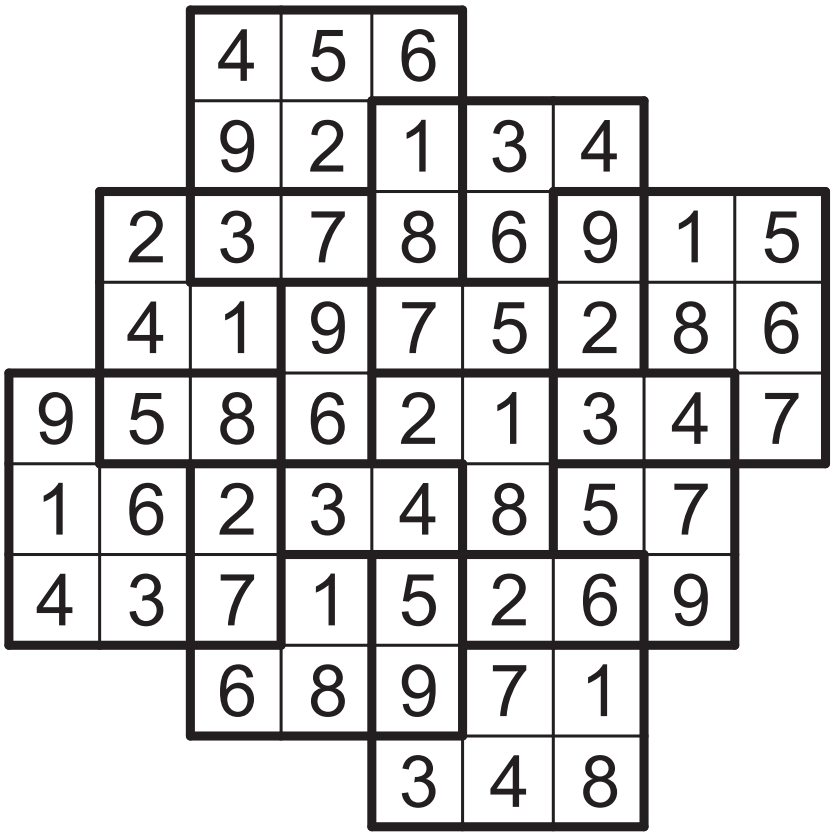




Square Madness

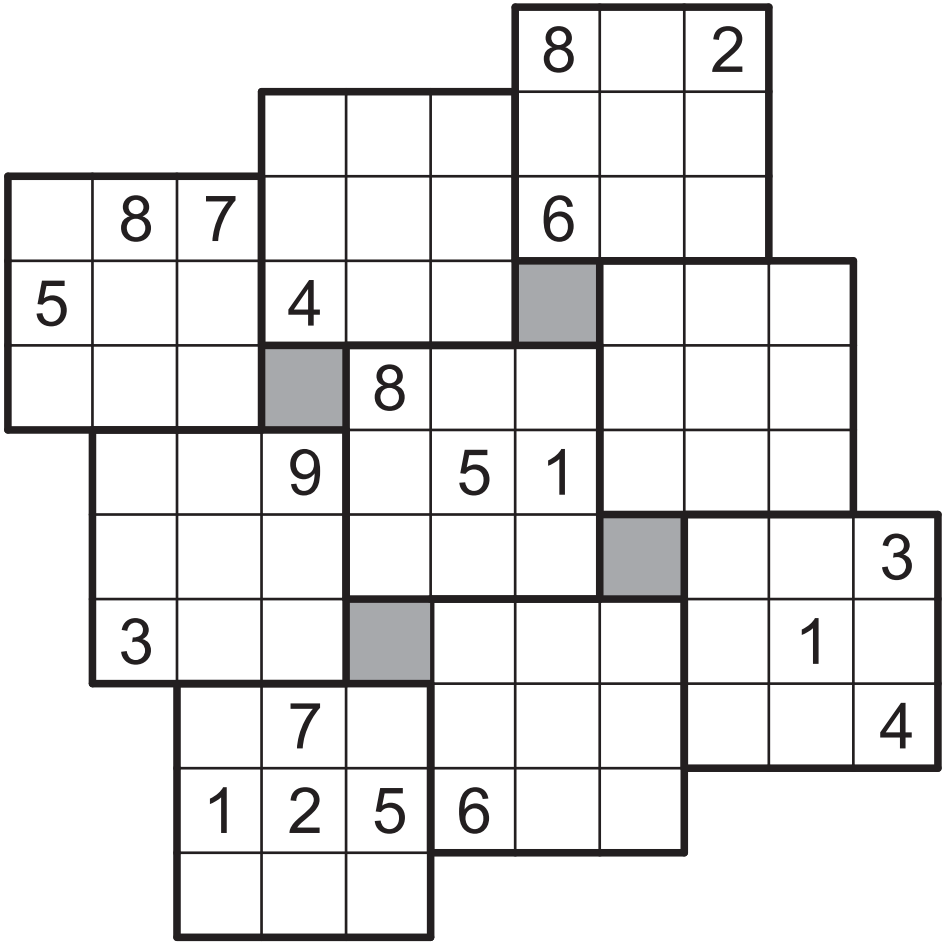
Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.

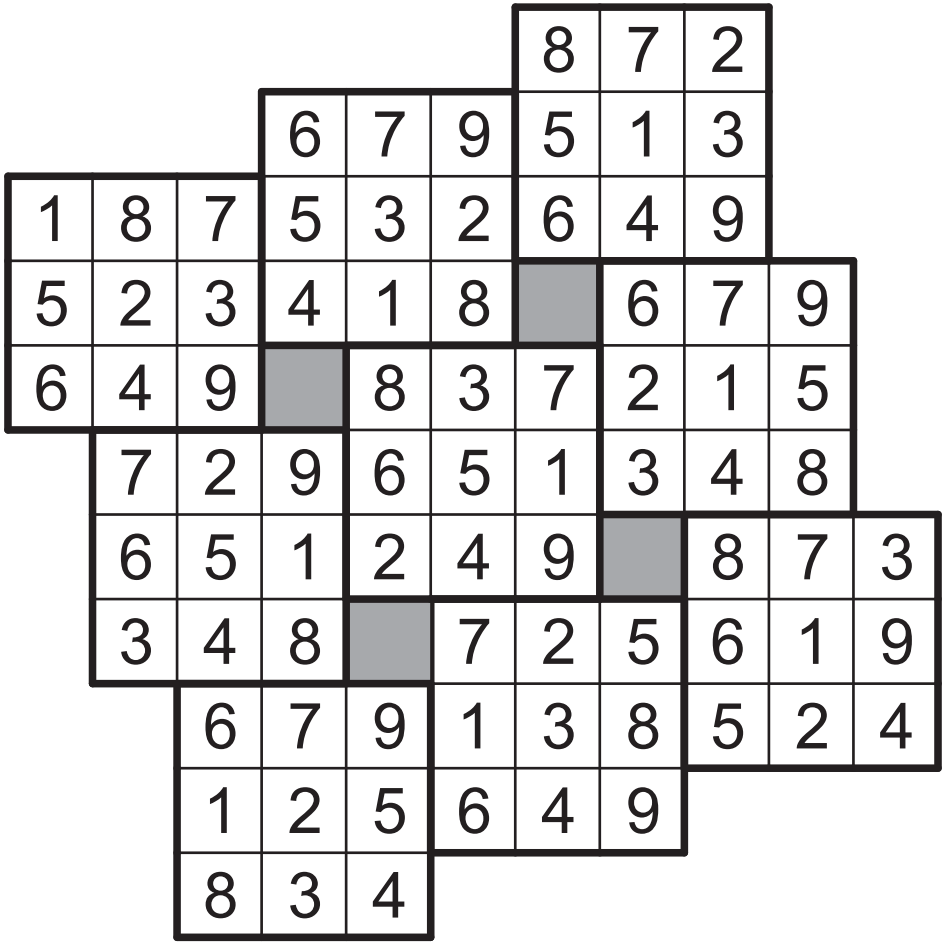




Shifted sudoku

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in a row, column and marked 3x3 box.





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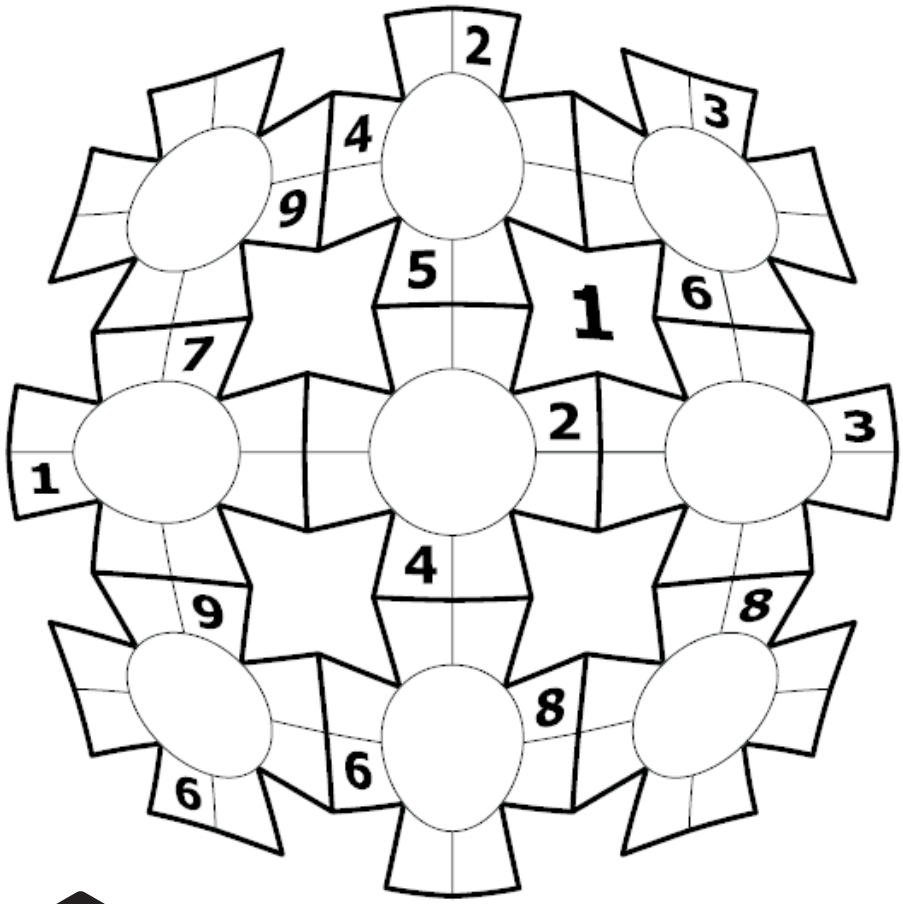
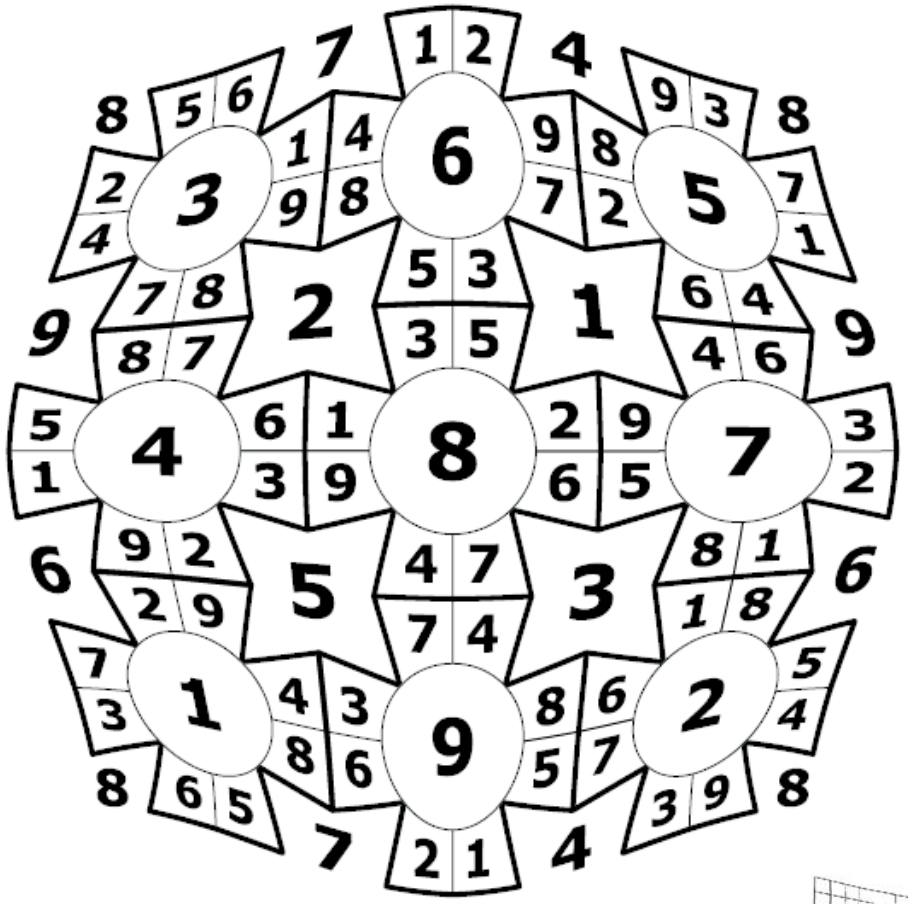
SudokuBall

Fill in the grid so that every row, column (six smaller cells and three bigger circles or stars), outlined figures (eight smaller cells and a bigger circle), nine bigger circles and nine bigger stars contain the digits 1 through 9. The grid is toroidal.





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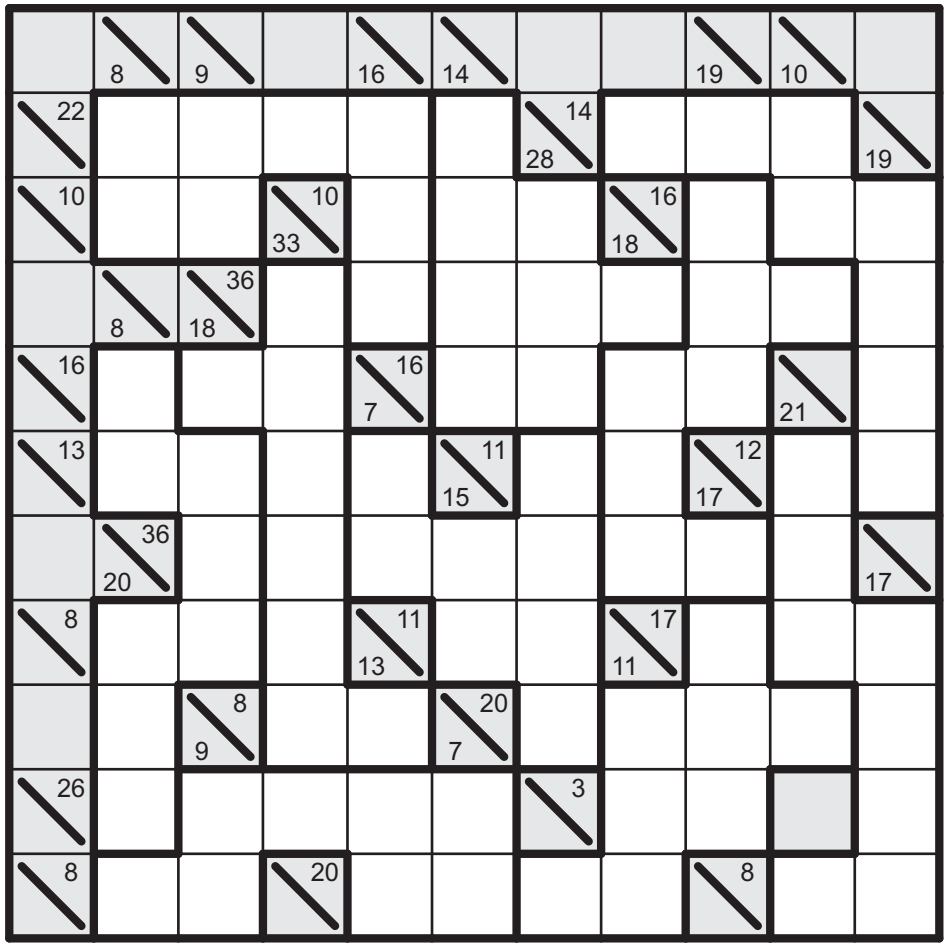
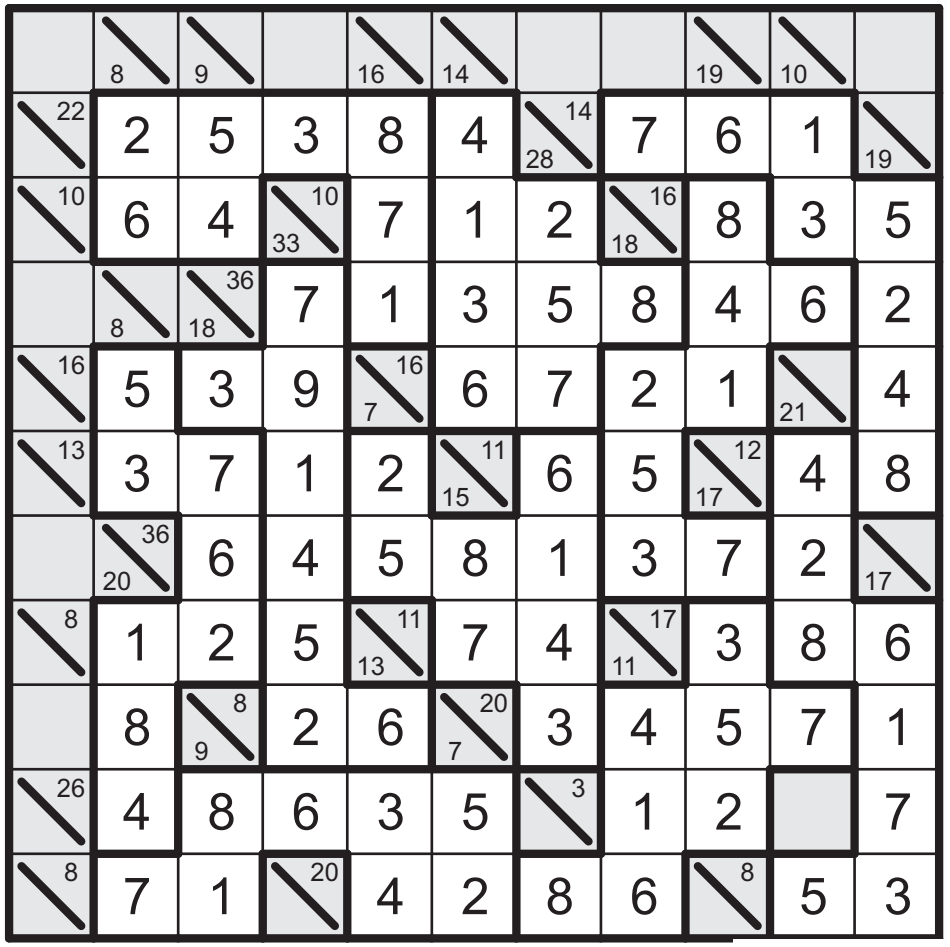
Sudokuro

Write a single digit from 1 to 8 into each cell so that no digit can be repeated in a row, column and marked irregular region.
Sums are given for some groups of cells.





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Domino

Place all given dominoes into the grid without overlapping.

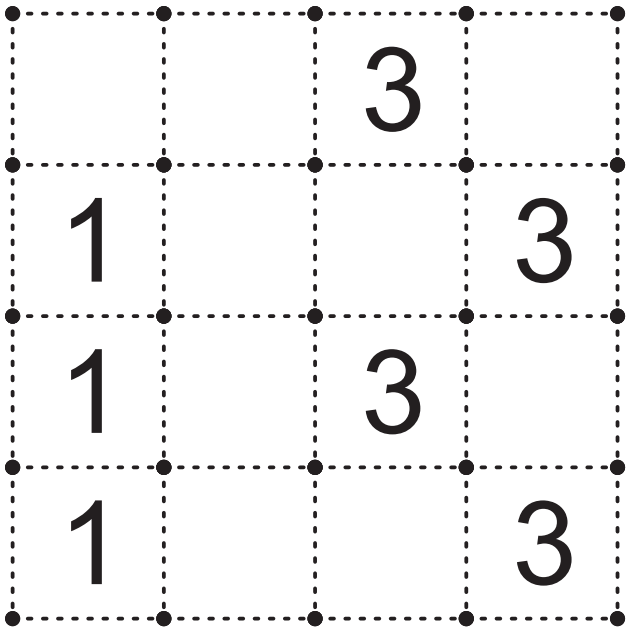
3	2	4	2	5
1	2	1	1	2
5	2	1	4	1
5	3	4	5	5
3	2	4	3	4
3	4	1	3	5

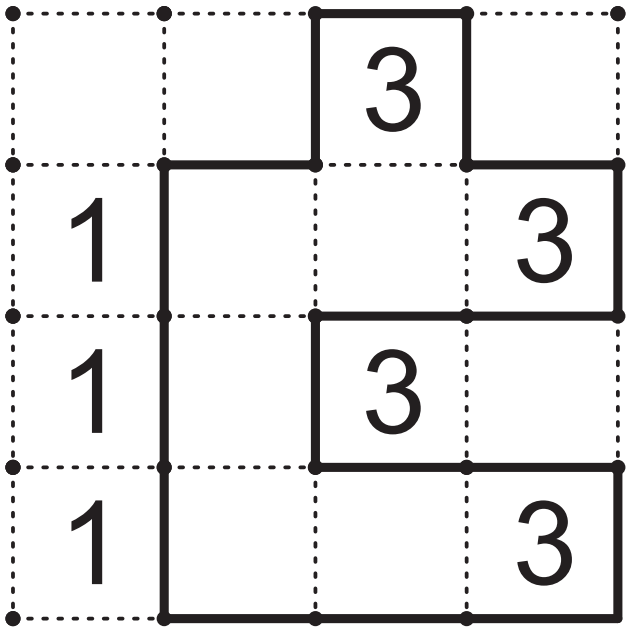
1	1	1	2	1	3
1	4	1	5	2	2
2	3	2	4	2	5
3	3	3	4	3	5
4	4	4	5	5	5

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

Fences

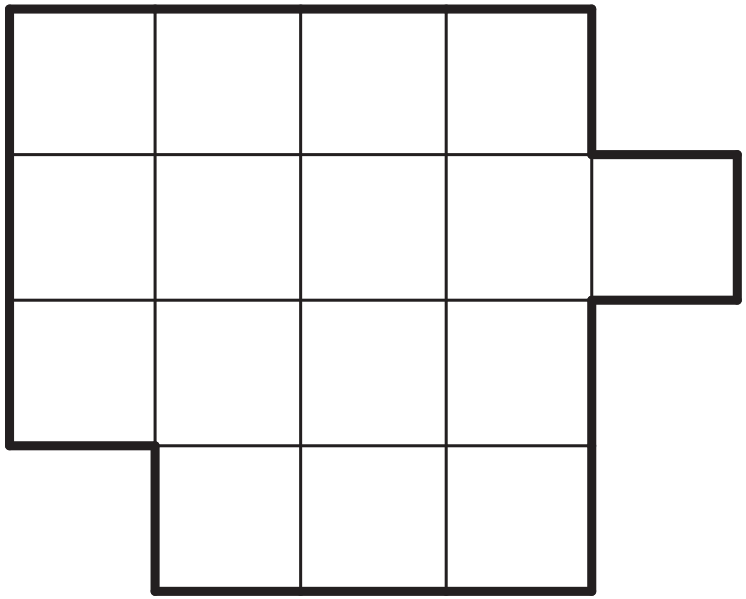
Draw a single closed loop using given grid lines. Numbers in some cells show how many neighbouring edges are used by the loop.

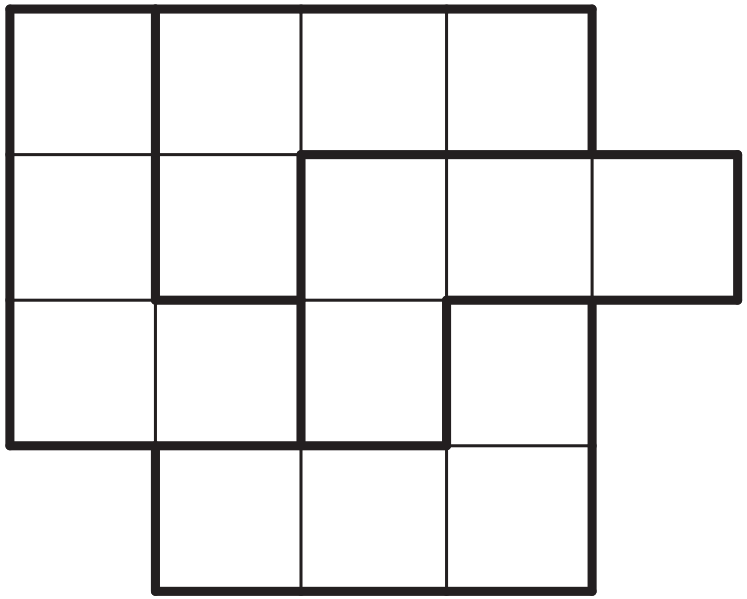




Five times five

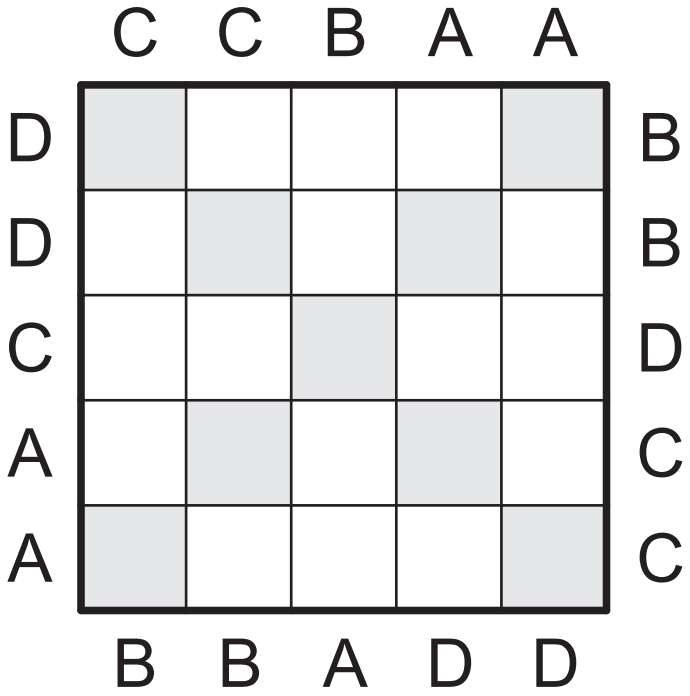
Divide the given shape into 5 identical parts. (Parts can be rotated and/or mirrored.)
In booklet: Four identical parts, you cannot mirror.

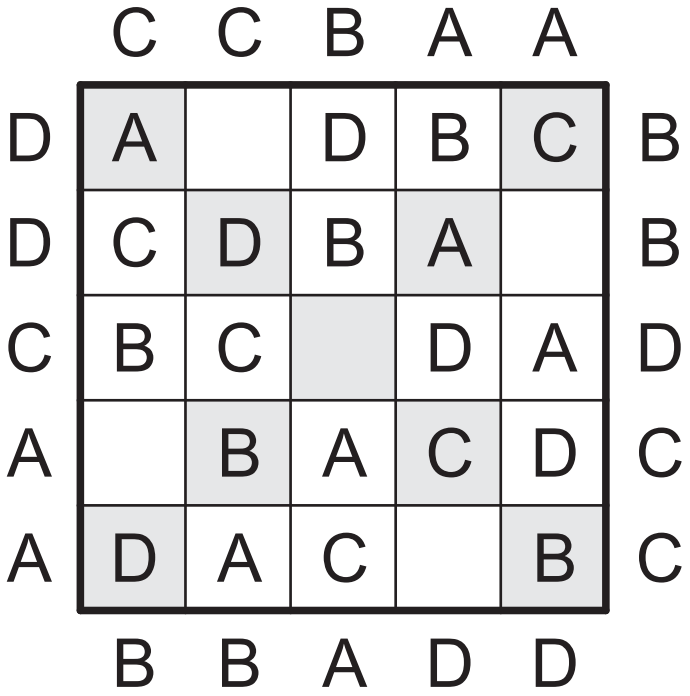




Easy as 2nd ABC

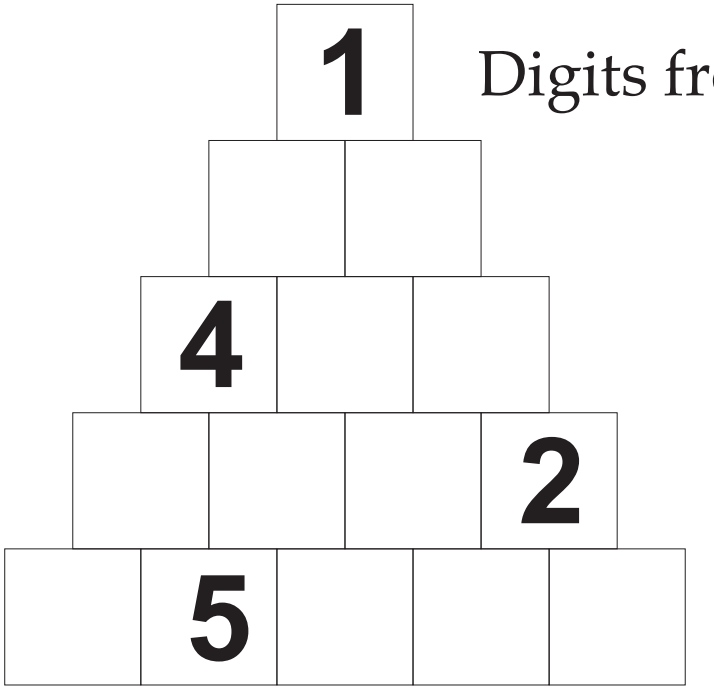
Write a single letter from the given range into some cells so that each letter appears once in each row and column. Letters outside the grid show the seconds letter from a corresponding direction.
In booklet: Letters A to D, moreover the grid is diagonal.



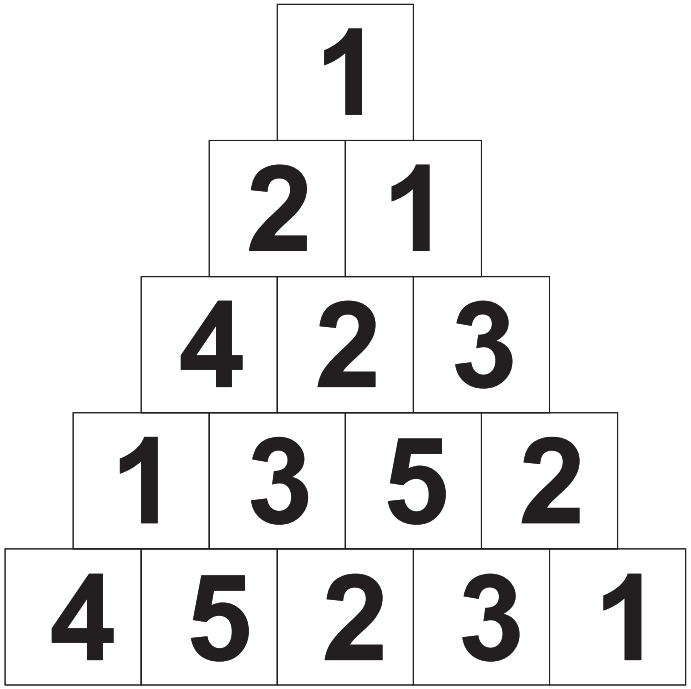


Pyramid

Write a single digit from given range into each cell so that no digit can be repeated in a row. Digit in an upper row is sum or difference of two digits bellow it.



Digits from 1 to 5



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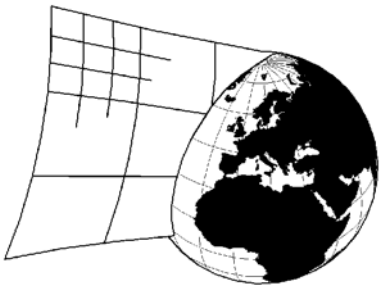
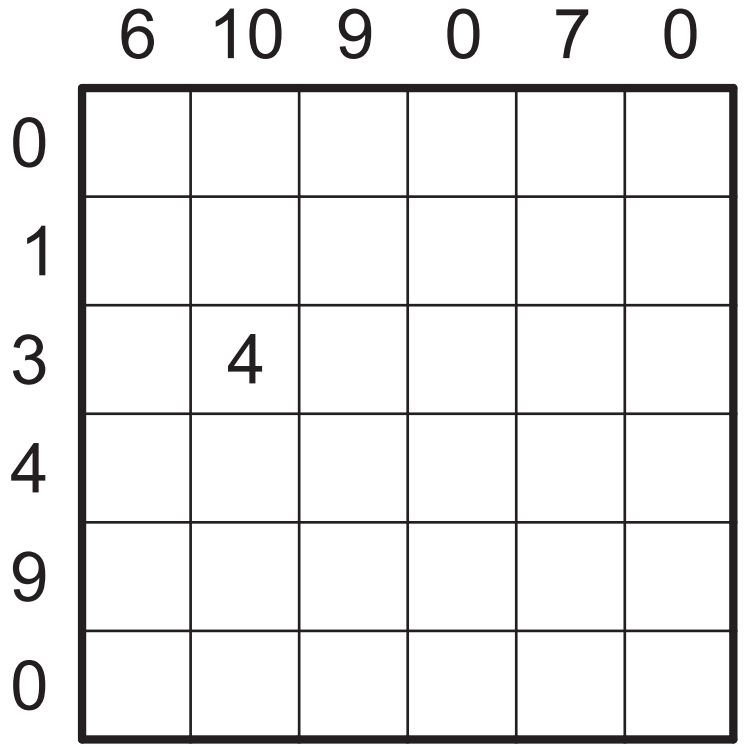
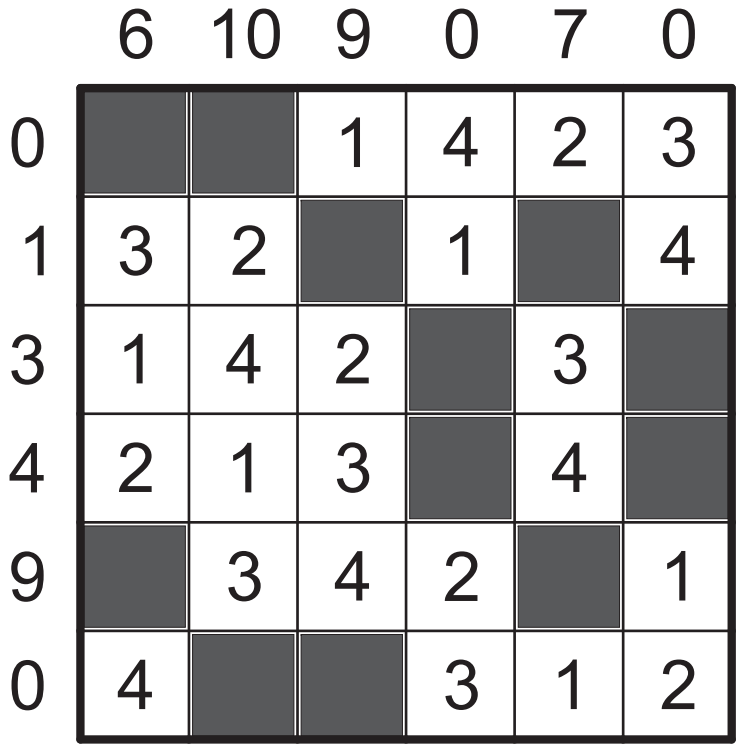


Sum between

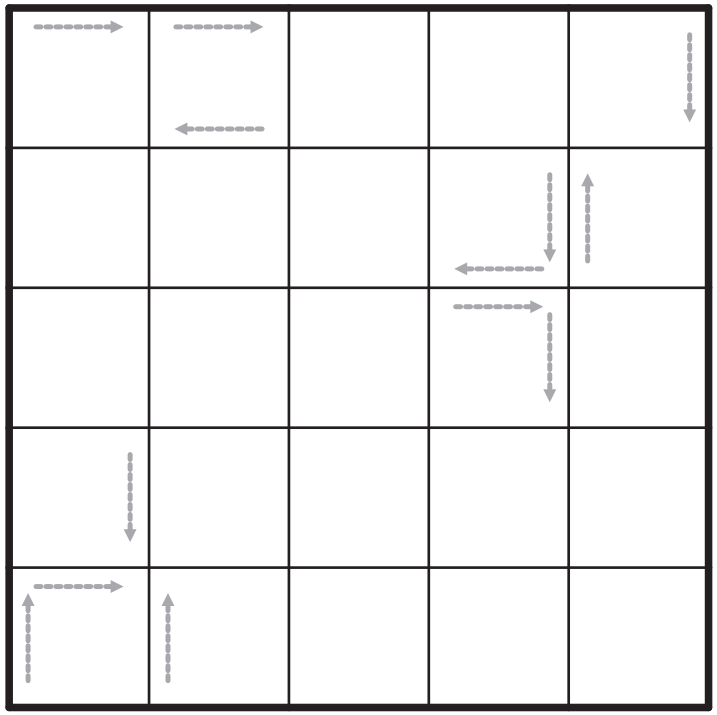
Blacken 12 cells in the grid so that there will be exactly two black cells in each row and column. Fill in the remaining empty cells with digits 1 to 4 so that no digit can be repeated in a row and column. Sums of digits between black cells are given for each row and column. (If there are given digits in the grid, you cannot blacken their cells.)





Skyscrapers

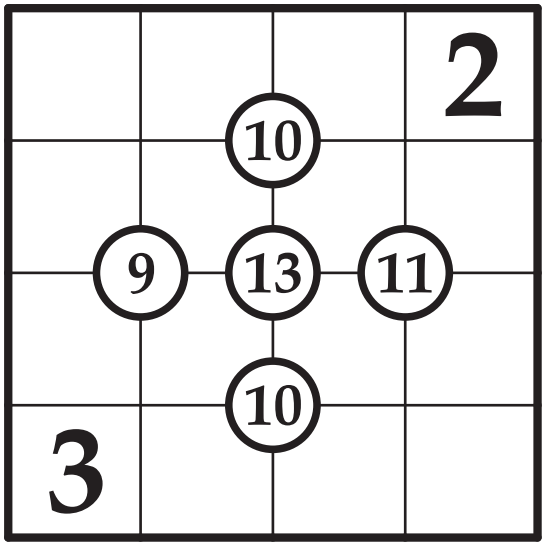
Write a single digit from 1 to 6 into each cell so that no digit can be repeated in a row and column.
All digits represent heights of skyscrapers.
There is an arrow in a cell if and only if the digit in this cell also represent the number of visible skyscrapers in some direction.

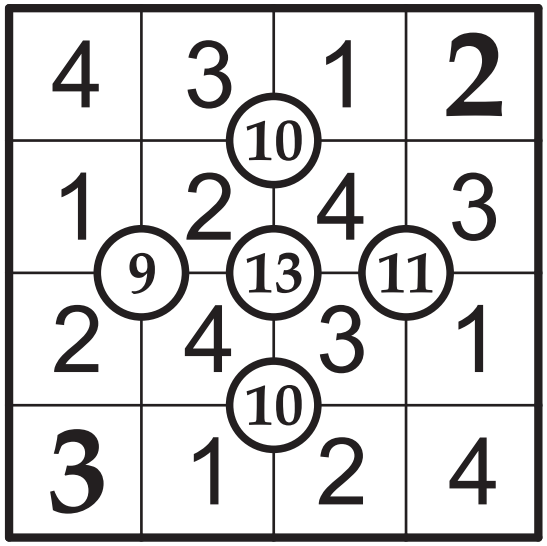


2	1	5	3	4
5	3	4	2	1
4	5	3	1	2
1	4	2	5	3
3	2	1	4	5

Sum around

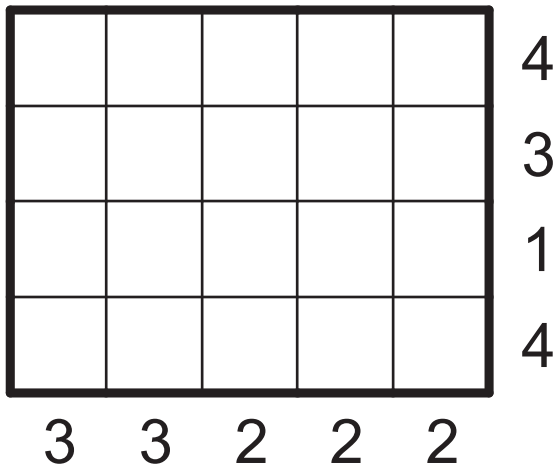
Write a single digit from 1 to 4 into each cell so that no digit can be repeated in a row and column. Numbers in circles show the sum of 4 digits around the circle.

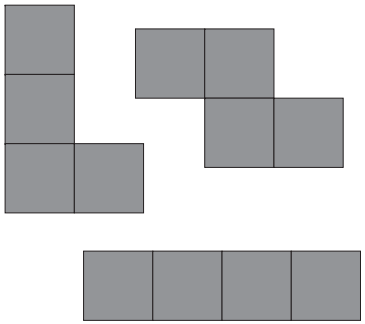


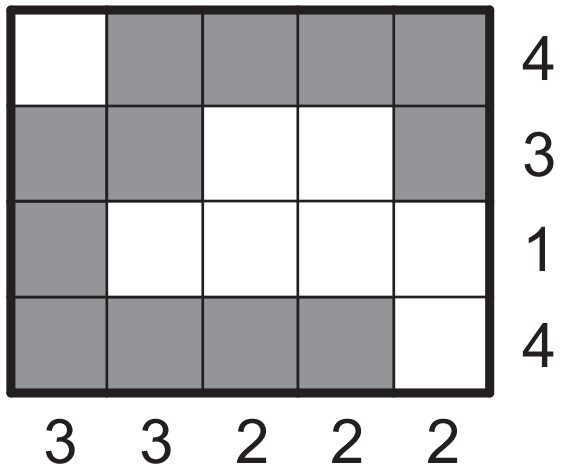


Pentosnake

Place 7 different pentominoes into the grid to form a snake 35 cells long, not touching itself, not even diagonally. Numbers outside the grid show number of cells used by the snake in corresponding row or column.
In booklet: A snake formed by 3 tetrominoes.

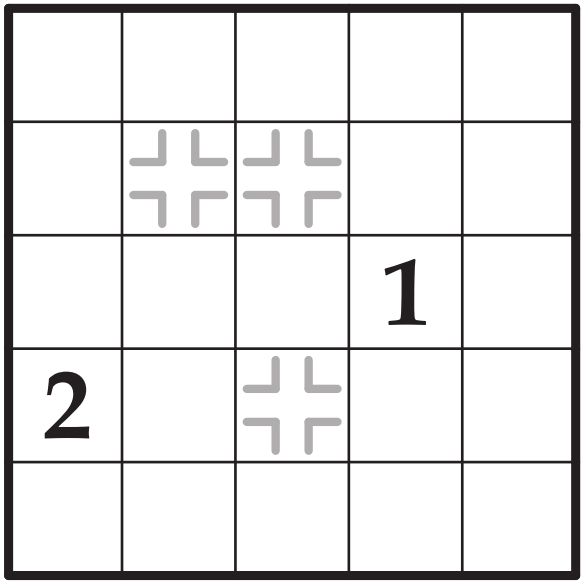


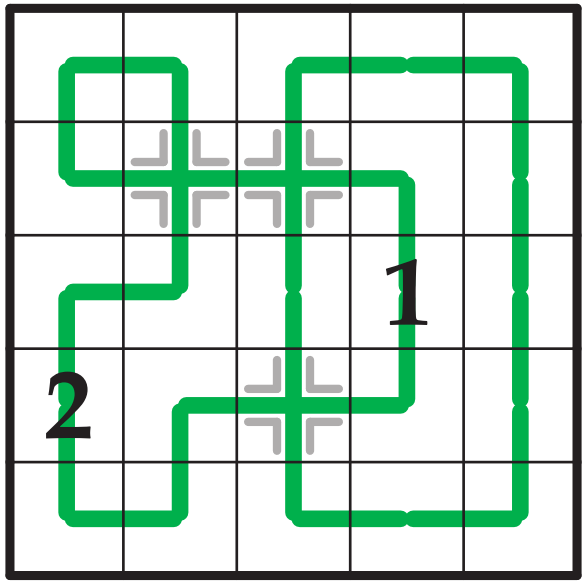




Railway

Draw a single closed loop in the grid, visiting all cells. All places where the loop crosses itself are marked. The railway loop should go straight through all numbered stations, you should visit them in order and return from the highest number back to station number 1.





Password path

Find a path from a top left corner to a bottom right, connecting neighbouring cells horizontally, vertically or diagonally. The path does not cross itself and visits all cells. Along your path you should read characters in order E-U-R-O-2-O-1-2-E-U-...

Wordsearch

Fill the empty cells with appropriate letter to be able to read all given words in one of eight directions.

Scrabble

Place all the given words to the grid in cris-cros style.