WPF
SUDOKU/PUZZLE
GRAND PRIX
2018

WPF SUDOKU GP 2018
INSTRUCTION BOOKLET

ROUND 2

Puzzle authors:
Estonia
Tiit Vunk
Rauno Pärnits

Organised by

World Puzzle Federation

General Answer Format:

Each Sudoku has two marked rows or columns. You need to submit all digits in the corresponding directions, from left to right or from top to bottom.

In the example, the two answer keys are:

1A: 367594218
1B: 283749165

All puzzles will use digits 1-9 in the submission, except puzzle 6 (9 different letters) and puzzle 10 (digits 0-9).

1A →

1B →

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

Submission Page:

http://gp.worldpuzzle.org/content/sudoku-gp

Version:

This is version 1 of the instruction booklet.

Points:

1	Classic Sudoku	15
2	Classic Sudoku	21
3	Classic Sudoku	24
4	Classic Sudoku	17
5	Classic Sudoku	34
6	Letter Sudoku	37
7	No Knight Step Sudoku	36
8	Fortress Sudoku	39
9	Sum 100 Sudoku	54
10	Missing Digit Sudoku	53
11	Odd Even Bridge Sudoku	63
12	Halved Squares Sudoku	98
13	LC Sudoku	67
14	Meandering Diagonals Sudoku	42
TOTAL:		600

1-5 Classic Sudoku

Place a digit from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each digit exactly once.

Example

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

Solution

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

6 Letter Sudoku

Place a letter in each empty cell in the grid such that each row, column and marked 3x3 box contains the same set of letters. There are no repeated letters in the set.

Note: In ths puzzle the answer keys consists of 9 letters.

Example

A		C				E		G
	B		C		E		F	
				D				
B		D				A		F
	I						H	
				F				
			I		A			
I		G		E		C		A
	H						B	

Solution

A	D	C	B	H	F	E	I	G
G	B	I	C	A	E	H	F	D
F	E	H	G	D	I	B	A	C
B	G	D	E	I	H	A	C	F
C	I	F	A	B	G	D	H	E
H	A	E	D	F	C	I	G	B
D	C	B	I	G	A	F	E	H
I	F	G	H	E	B	C	D	A
E	H	A	F	C	D	G	B	I

7 No Knight Step Sudoku

Apply classic sudoku rules. Digits placed in cells connected by a chess Knight's move must be different.

Example

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

Solution

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

8 Fortress Sudoku

Apply classic sudoku rules. A digit placed in a shaded cell must be strictly greater than digits placed in adjacent unshaded cells.

Example

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

Solution

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

9 Sum 100 Sudoku

Apply classic sudoku rules. The sum of numbers in the shaded cells in each row is exactly 100. Two adjacent shaded cells in the same row form a two-digit number.

Example

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

Solution

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

10 Missing Digit Sudoku

Place a digit from 0-9 in each empty cell. Digits in a row, column and 3x3 box must be different. The clues outside the grid indicate the digit that is not included in the corresponding row/column.

Example

	6	0		4	1	2		2	7
2			6	5		1	7		
5		3		0		6		9	
	2		9				6		4
4	5	9			8			6	3
6				2		9			
7	8	1			0			5	2
	3		0				1		5
1		2		8		0		4	
2			7	3		5	8		

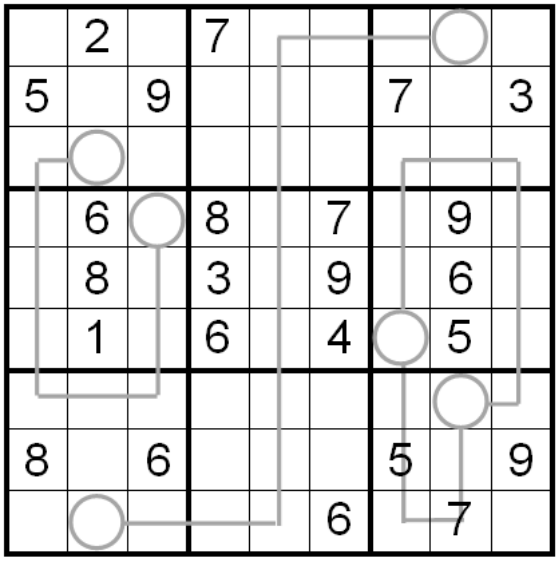
Solution

	6	0		4	1	2		2	7
2	4	8	6	5	9	1	7	3	0
5	7	3	1	0	4	6	2	9	8
	2	5	9	7	3	8	6	1	4
4	5	9	2	1	8	7	0	6	3
6	0	7	3	2	5	9	4	8	1
7	8	1	4	6	0	3	9	5	2
	3	6	0	9	2	4	1	7	5
1	9	2	5	8	7	0	3	4	6
2	1	4	7	3	6	5	8	0	9

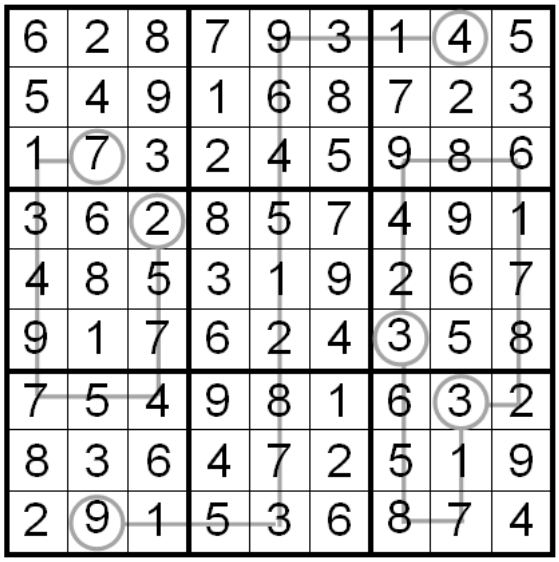
11 Odd Even Bridge Sudoku

Apply classic sudoku rules. Some circled cells are connected by a bridge. An odd digit in a circle denotes the number of odd digits on the bridge. An even digit in a circle equals the number of even digits on the bridge. The digits on the circles are not counted. If a circled cell is connected by more than one bridge, an odd/even digit in the cell denote the number of odd/even digits on **each** connected bridge (not the sum of all connected bridges).

Example



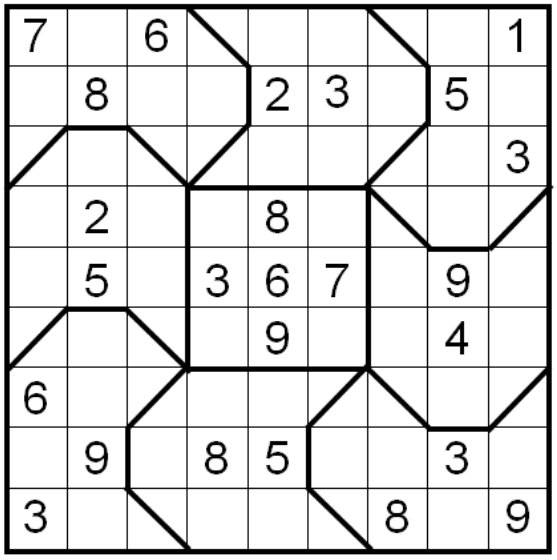
Solution



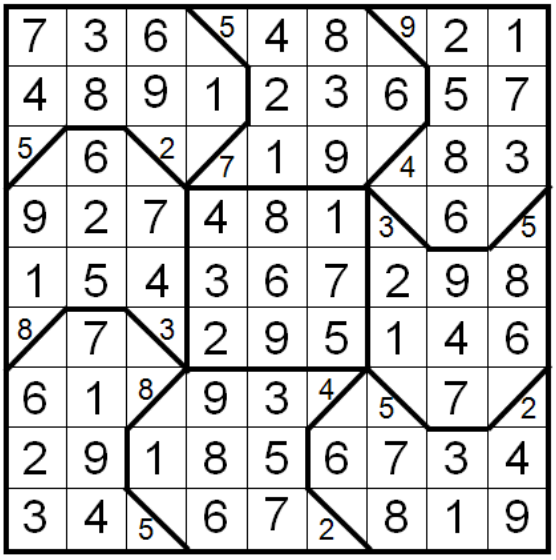
12 Halved Squares Sudoku

Place a digit from 1-9 in each empty cell in the grid such that each row, column and marked region contains each digit exactly once. Some cells are halved by one of the diagonals. For any such cell, exactly one of its two halves shall contain a digit. That digit is considered to belong to the row and column containing its cell, as well as to the region connected to the half cell the digit is in.

Example



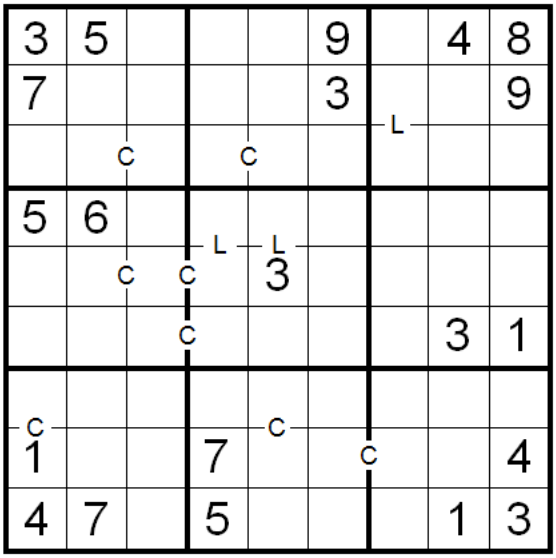
Solution



13 LC Sudoku

Apply classic sudoku rules. Whenever two adjacent numbers in a row or column add up to 50 or 100, this is marked by a letter L or C respectively, placed on the line separating the two numbers. Two-digit numbers are formed by combining adjacent digits (reading from left to right or top to bottom only). **All possible letters L and C are marked.** Row and column strings which would result in the letters L and C coinciding (e.g. 5248) will not occur.

Example



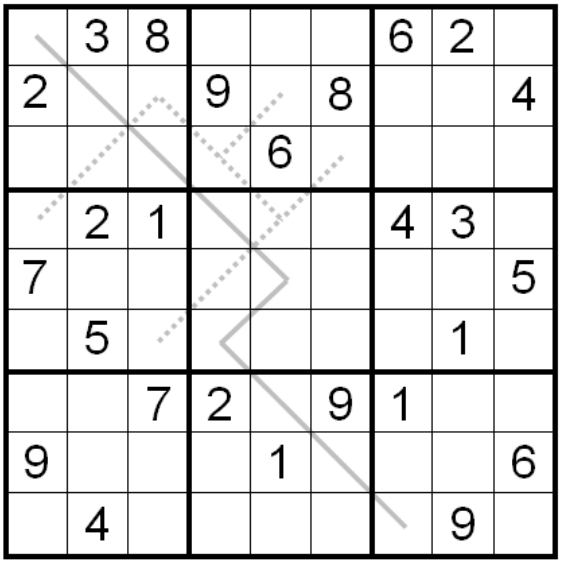
Solution

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

14 Meandering Diagonals Sudoku

Apply classic sudoku rules. In each set of cells connected by meandering diagonal lines each digit appears at most once.

Example



Solution

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