WPF SUDOKU/PUZZLE GRAND PRIX 2019

WPF SUDOKU GP 2019 INSTRUCTION BOOKLET

ROUND 2

Puzzle authors:
Poland
Jan Mrozowski
Łukasz Bożykowski
Piotr Gdowski

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.

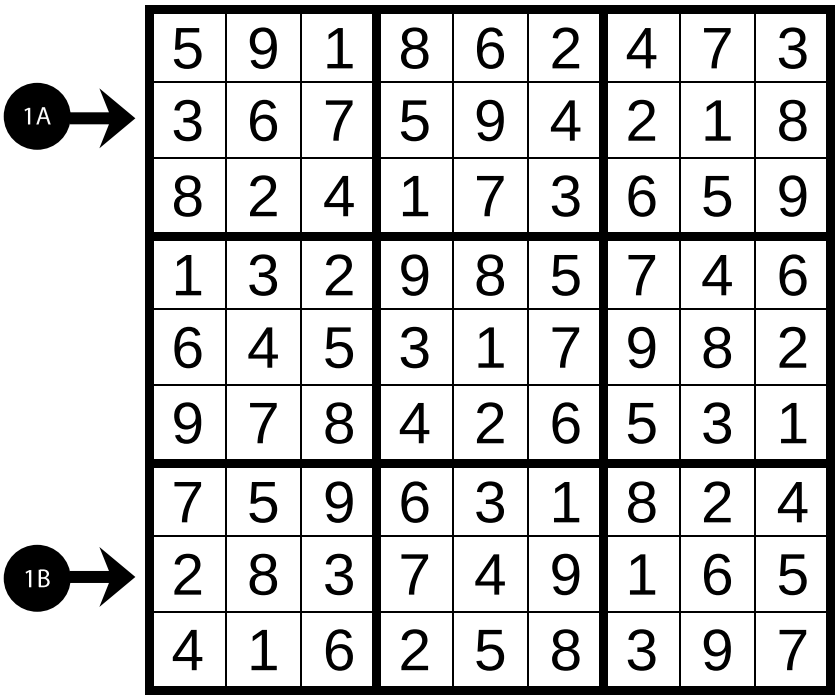
In the example, the two answer keys are:

1A: 367594218
1B: 283749165

All puzzles will use digits 1-9 in the submission.

Submission Page:

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



Version:

This is version 1 of the instruction booklet.

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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 Diagonal Sudoku

Apply classic sudoku rules. Each marked diagonal must also contain each digit from 1-9 exactly once.

Example

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

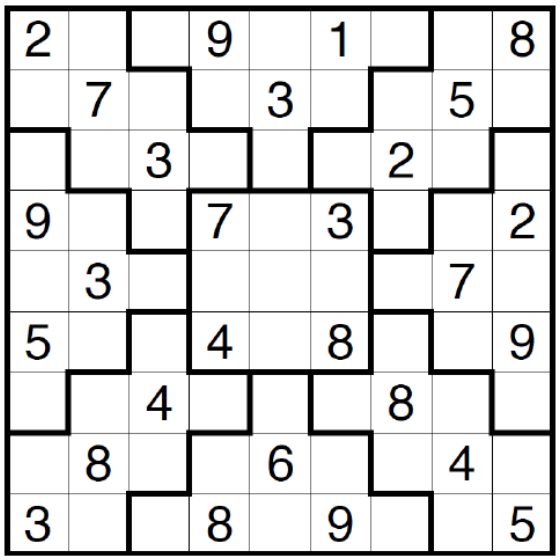
Solution

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

7 Irregular Sudoku

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

Example



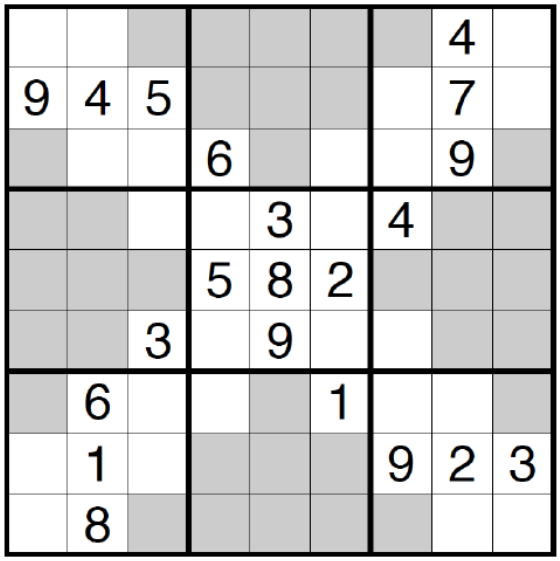
Solution

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

8 Extra Regions Sudoku

Apply classic sudoku rules. Each of the shaded regions must also contain each digit from 1-9 exactly once.

Example



Solution

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

9 Quad Sums Sudoku

Apply classic sudoku rules. A circle at a corner implies that one digit is the sum of the remaining three digits at that corner. Not all possible dots are given; four digits sharing a corner without a circle may contain one digit which is the sum of the remaining three digits.

Example

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

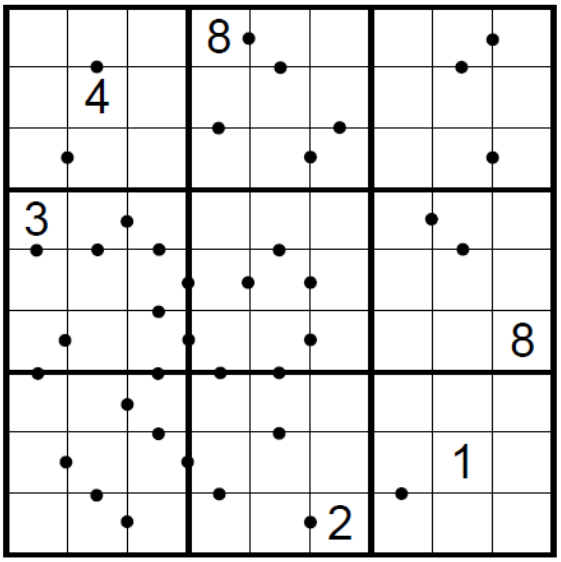
Solution

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

10 Prime Sums Sudoku

Apply classic sudoku rules. A dot means that the sum of the digits in the two neighbouring cells is a prime number. All possible dots are given.

Example



Solution

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

11 Divisible by Three Sudoku

Apply classic sudoku rules. Inside each 3x3 box all sums created by three horizontally or vertically adjacent digits must be divisible by 3.

Example

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

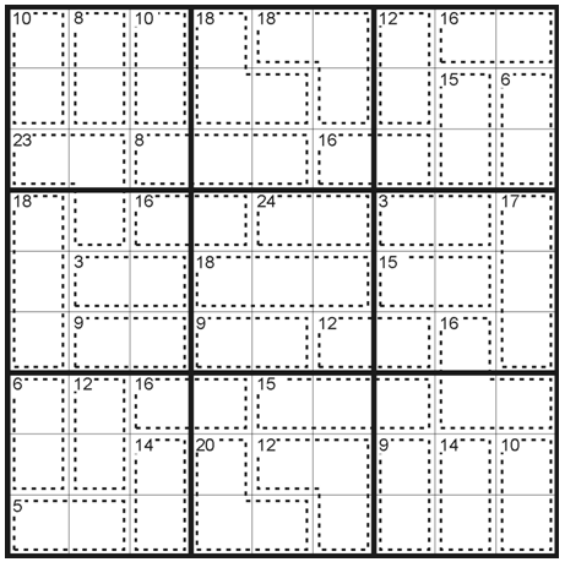
Solution

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

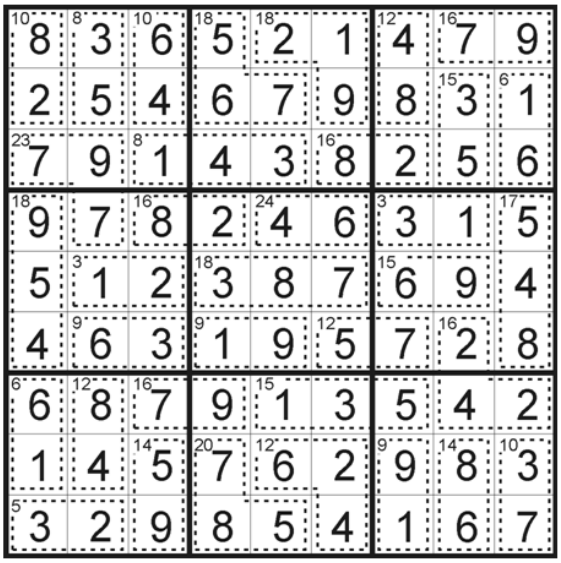
12 Sum or Product Killer Sudoku

Apply classic sudoku rules. The number in each cage shows either the sum or the product (or both) of all digits inside the cage. Digits **may be repeated** within a cage.

Example



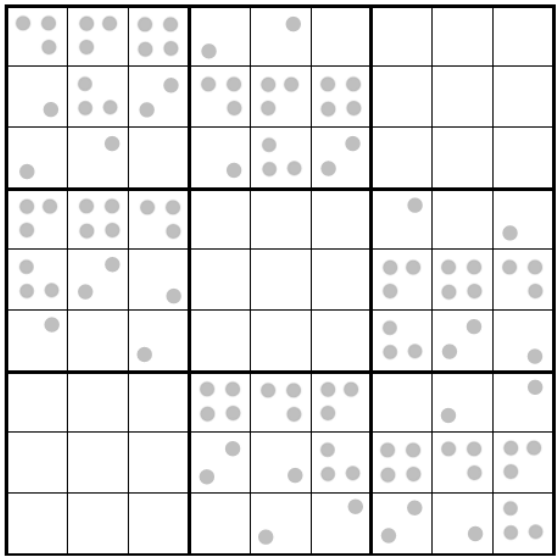
Solution

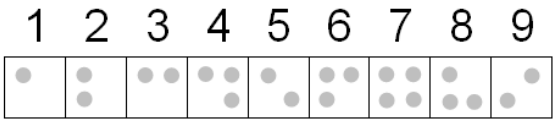


13 Braille Sudoku

Apply classic sudoku rules. The dots given inside some cells form part (or all) of the Braille representation of the digit.

Example





Solution

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