WPF SUDOKU/PUZZLE GRAND PRIX 2019

WPF SUDOKU GP 2019 INSTRUCTION BOOKLET

ROUND 1

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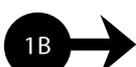
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General Answer Format:

Each Sudoku has two marked rows or columns (except in 15th puzzle). 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 2 of the instruction booklet.

Points:

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	TOTAL:	600

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1-6 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

7 Non-Consecutive Sudoku

Apply classic sudoku rules. Digits placed in adjacent cells must not be consecutive.

Example

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

Solution

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

8 Renban Sudoku

Apply classic sudoku rules. Digits placed in each shaded region must form a consecutive, non-repeating set.

Example

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

Solution

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

9 Battenburg Sudoku

Apply classic sudoku rules. Everywhere 2 odd and 2 even digits form a 2x2 chessboard pattern, a Battenburg marking is given. If there is no marking, the above pattern is not allowed.

Example

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

Solution

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

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10 Consecutive Chains Sudoku

Apply classic sudoku rules. Digits in the grey areas must form a chain of consecutive digits from 1 to 9 by moving horizontally or vertically from one cell to the next.

Example

Solution

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

11 Mathrax Sudoku

Apply classic sudoku rules. Some intersections are marked by number and operator (+, -, x, /) in a circle. The number is the result of the operation, applied to both pairs of diagonally opposite cells. An "E" or "O" in the circle indicates that all four adjacent digits are even or odd.

Example

Solution

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

12 Killer Sudoku

Apply classic sudoku rules. The digits placed in each marked cage must sum to the total given in its top-left. Numbers must not repeat in cages.

Example

Solution

13 Max Ascending Sudoku

Apply classic sudoku rules. Clues outside the grid indicate the length of the longest series of ascending digits in the corresponding direction.

Example

Solution

14 Big-Small Japanese Sums Sudoku

Apply classic sudoku rules. Clues outside the grid indicate the sums of groups of digits in the given order. Clues on top refer to groups of big digits (5-9). These groups are separated by at least one small digit (1-4). Clues on the left refer to groups of small digits, that are separated by at least one big digit.

Example

	8	15	12		5				
	14	7	6		15	17	9		18
	6	5	8		9	6	8	20	9
	7	8	9	35	6	12	18	15	8

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

Solution

	8	15	12		5				
	14	7	6		15	17	9		18
	6	5	8		9	6	8	20	9
	7	8	9	35	6	12	18	15	8

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

15 Overlapping Irregular Sudoku

Place the digits from 1 to 9 in every row and column of both overlapping grids and in every bold outlined area for the puzzle as a whole.

Note: There will be three answer keys for this puzzle, one of them consists of 15 digits.

Example

Solution

The original size of this puzzle is shown on the next page.

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15 Overlapping Irregular Sudoku