WPF SUDOKU/PUZZLE GRAND PRIX 2019

WPF SUDOKU GP 2019 INSTRUCTION BOOKLET

ROUND 8

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Organised by

WORLD PUZZLE FEDERATION

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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

1A →	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
1B →	2	8	3	7	4	9	1	6	5
	4	1	6	2	5	8	3	9	7

Version:

This is version 1 of the instruction booklet.

Points:

1	Classic Sudoku	16
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11	Non-Consecutive Sudoku	55
12	Symmetric Product Sums Sudoku	72
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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 Argyle Sudoku

Apply classic sudoku rules. Every marked diagonal line contains each digit no more than once.

Example

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

Solution

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

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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 Clone Sudoku

Apply classic sudoku rules. Digits in the same place in both shaded figures must be identical.

Example

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

Solution

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

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10 Odd/Even Sudoku

Apply classic sudoku rules. Digits in circles must be odd and digits in squares must be even.

Example

Solution

11 Non-Consecutive Sudoku

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

Example

Solution

12 Symmetric Product Sums Sudoku

Apply classic sudoku rules. Each rectangular region is of size 2xn and the number in the circle is the sum of the products of all 180-degree symmetric pairs of digits within the region. Digits may be repeated within a rectangular region.

Note: For your better understanding see sample on the next page.

Example

Solution

13 Killer Little Killer Sudoku

Apply classic sudoku rules. The digits placed in each marked cage must sum to the total given in its top-left. Digits must not repeat in cages. Numbers along the arrows indicate the sum of the digits in the corresponding direction.

Example

Solution

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12 Symmetric Product Sums Sudoku

Sample:

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

$1\times8+2\times7+3\times6+4\times5=60$

$2\times2+4\times7+3\times5+8\times3=71$