WPF SUDOKU/PUZZLE GRAND PRIX 2016

WPF SUDOKU GP 2016 INSTRUCTION BOOKLET

ROUND 2

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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.

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

1A → (row 2)
1B → (row 8)

Submission Page:

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

Version:

This is version 2 of the instruction booklet, fixing a printing error in the example for 14 Diagonal Frame.

Points:

1	Classic Sudoku	16
2	Classic Sudoku	18
3	Classic Sudoku	21
4	Classic Sudoku	25
5	Classic Sudoku	29
6	Classic Sudoku	36
7	Palindrome Sudoku	35
8	Anti-Knight Sudoku	45
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10	No Touch Sudoku	25
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12	Kropki Sudoku	27
13	Thermo Sudoku	75
14	Diagonal Frame Sudoku	42
15	Serbian Frame Sudoku	76
16	Fives Sudoku	71
	TOTAL:	**600**

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1-6 Classic Sudoku

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

Example

Solution

7 Palindrome Sudoku

Apply classic sudoku rules. Additionally, numbers placed along marked lines must form a palindromic sequence, e.g. 12344321.

Example

Solution

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8 Anti-Knight Sudoku

Apply classic sudoku rules. Additionally, numbers placed in cells related by a chess Knight's move (see the diagram) 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

9 Non-Consecutive Sudoku

Apply classic sudoku rules. Additionally, numbers 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

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10 No Touch Sudoku

Apply classic sudoku rules. Additionally, numbers placed in cells that meet diagonally at a point must be different.

Example

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

Solution

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

11 XV Sudoku

Apply classic sudoku rules. Additionally, adjacent cells containing numbers summing to 5 are marked with a "V"; adjacent cells containing numbers summing to 10 are marked with an "X". Adjacent cells with no marking must not contain numbers summing to 5 or 10.

Example

Solution

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

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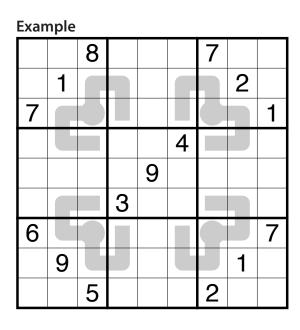WORLD PUZZLE FEDERATION

12 Kropki Sudoku

Apply classic sudoku rules. Additionally, adjacent cells containing consecutive numbers are marked with a white dot. Adjacent cells containing numbers whose ratio is 2 are marked with a black dot. Adjacent cells with no marking must not contain numbers that are neither consecutive nor whose ratio is 2. Adjacent cells containing 1 and 2 can be marked by a dot of either colour.

Example

Solution

13 Thermo Sudoku

Apply classic sudoku rules. Additionally, starting at the "bulb,'" numbers placed along each marked thermometer must form a strictly increasing sequence.

Example

Solution

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14 Frame-Diagonal Sudoku

Apply classic sudoku rules. Additionally, each marked diagonal must also contain each number from 1-9 exactly once. The clues outside the grid indicate the sum of the first 3 numbers placed in the corresponding direction.

Example

Solution

15 Serbian Frame Sudoku

Apply classic sudoku rules. Additionally, the clues outside the rows indicate the sum of the numbers to be placed in the 2nd and 3rd cells in the corresponding direction. The clues outside the columns indicate the sums of the numbers to be placed in the 3rd and 4th cells in the corresponding direction.

Example

Solution

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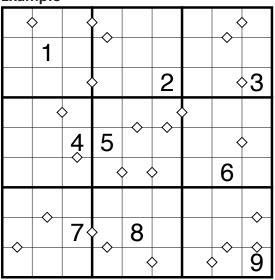GRAND PRIX
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16 Fives Sudoku

Apply classic sudoku rules. Additionally, adjacent cells containing numbers whose sum or difference is 5 are marked. Adjacent cells with no marking must not contain numbers whose sum or difference is 5.

Example

Solution