WPF SUDOKU/PUZZLE
GRAND PRIX
2015

WPF SUDOKU GP 2015
INSTRUCTION BOOKLET

ROUND 5

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Organised by

WORLD PUZZLE FEDERATION

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General Answer Format:

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

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

Examples: These examples are a mix of sudoku from the Serbain authors and from past Sudoku GP rounds.

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

This is version 1 of these instructions.

Points:

1	Classic Sudoku	20
2	Classic Sudoku	25
3	Classic Sudoku	30
4	Classic Sudoku	30
5	Classic Sudoku	55
6	Odd Sudoku	25
7	Anti-Knight Sudoku	25
8	Fortress Sudoku	105
9	Extra Region Sudoku	40
10	Thermo-Sudoku	50
11	Neighbor Sums Sudoku	30
12	Serbian Irregular Sudoku	55
13	Diagonal Consecutive Sudoku	45
14	Diagonal Sum is Nine Sudoku	65

TOTAL: **600**

1-5 Classic Sudoku

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in every row, column, and outlined 3×3 region.

Example

1A →

1B →

Solution

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

1B →

6 Odd Sudoku

Apply Classic Sudoku rules. Additionally, all digits in the grey cells must be odd.

Example

6A →

6B →

Solution

6A →

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

6B →

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7 Anti-Knight Sudoku

Apply Classic Sudoku rules. Additionally, no two identical digits can be a chess knight's move away from each other (as shown in the diagram to the right).

	×		×	
×				×
		1		
×				×
	×		×	

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

7A

7B

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

7A

7B

8 Fortress Sudoku

Apply Classic Sudoku rules. Additionally, each digit in a shaded cell must be larger than any digit in an unshaded cell that it shares an edge with.

Example

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

8A

8B

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

8A

8B

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9 Extra Region Sudoku

Apply Classic Sudoku rules. Additionally, each digit appears exactly once in each of the extra shaded regions.

Example

9A →

9B →

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

Solution

9A →

9B →

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

10 Thermo-Sudoku

Apply Classic Sudoku rules. Additionally, some thermometers are in the grid. Digits on a thermometer are strictly increasing from the round bulb.

Example

10A →

10B →

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

Solution

10A →

10B →

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

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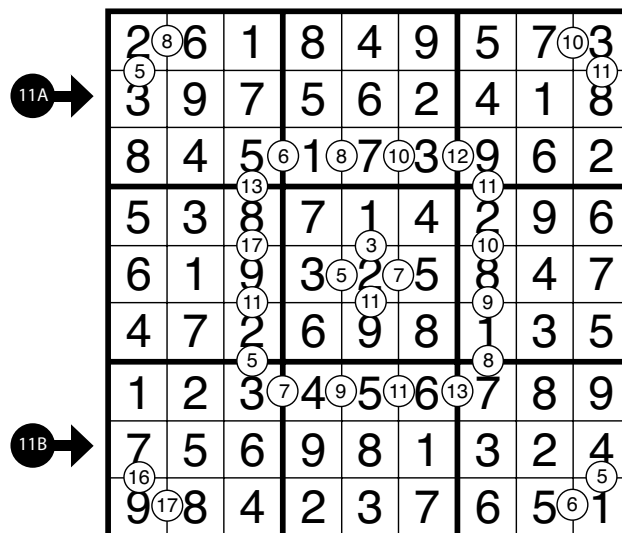SUDOKU/PUZZLE
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11 Neighbor Sums Sudoku

Apply Classic Sudoku rules. Additionally, some edges are marked with the sums of the digits in the adjacent cells.
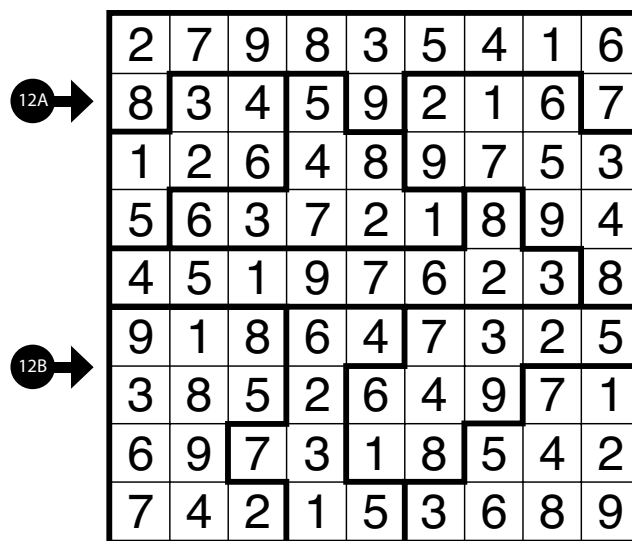
Example

Solution

11A

11B
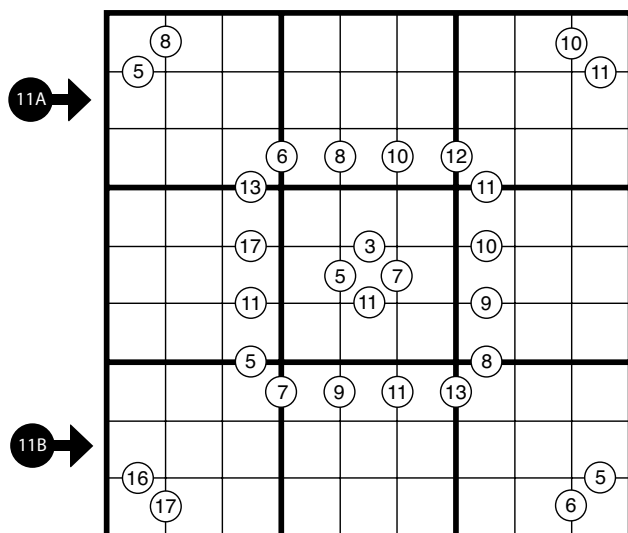
12 Serbian Irregular Sudoku

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in every row and column. In bold regions of size N ≤ 9, the digits 1 to N must appear exactly once. In bold regions of size N > 9, the (N-9) largest digits will appear twice while the remaining digits will appear once. For example, a region with 11 cells will contain the digits 1, 2, 3, 4, 5, 6, 7, 8, 8, 9, 9, with the two largest digits, 8 and 9, repeated.

Example

Solution

12A

12B

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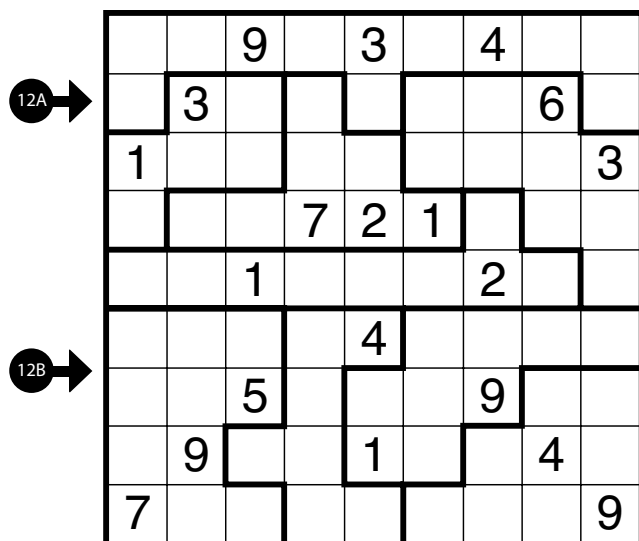
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13 Diagonal Consecutive Sudoku

Apply Classic Sudoku rules. Additionally, all pairs of diagonally adjacent cells containing consecutive digits are marked by a line. (This means that all diagonally adjacent cells without a line cannot contain consecutive digits.)

Example

Solution

14 Diagonal Sum is Nine Sudoku

Apply Classic Sudoku rules. Additionally, all pairs of diagonally adjacent cells containing digits that sum to nine are marked by a line. (This means that all diagonally adjacent cells without a line cannot contain digits that sum to nine.)

Example

Solution