



WPF
SUDOKU/PUZZLE
GRAND PRIX
2014

WPF SUDOKU GP 2014 INSTRUCTION **BOOKLET**

ROUND 1



Puzzle authors:

Turkey

Salih Alan, Hatice Esra Aydemir

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.

All puzzles will use digits 1-9 in the submission, with one exception:

Sudoku 12 - Sudoku with Stars: Use X for stars. (423X7X165 for row 1 of the example)

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

This is version 2 of these instructions; the following changes have been made since version 1:
Easy as ABC Sudoku has been removed, leaving the contest 14 sudoku puzzles in length.
The Final Point table has been assigned (see below).

Points:

1	Classic Sudoku	26
2	Classic Sudoku	28
3	Classic Sudoku	44
4	Classic Sudoku	46
5	Classic Sudoku	55
6	Classic Sudoku	78
7	Diagonal Sudoku	31
8	Outside Sudoku	46
9	Renban Group Sudoku	52
10	Consecutive Sudoku	42
11	Extra Region Sudoku	36
12	Sudoku with Stars	55
13	Determinant Sudoku	26
14	Crossnumber Sudoku	35

TOTAL: **600**



1-6 Classic Sudoku

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

Example

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

Solution

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

7 Diagonal Sudoku

Apply classic sudoku rules. Additionally, each digit appears exactly once in the two main diagonals.

Example

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

Solution

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

8 Outside Sudoku

Apply classic sudoku rules. Additionally, digits given outside the grid must appear in the first region (three cells) in that row/column.

Example

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

Solution

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

9 Renban Group Sudoku

Apply classic sudoku rules. Additionally, each grey region contains a set of consecutive digits, with no constraint on the order of the digits.

Example

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

Solution

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



10 Consecutive Sudoku

Apply classic sudoku rules. Additionally, if a black dot is given between two adjacent cells, then the two numbers in those cells must be consecutive. If a black dot is not given, the two digits cannot be consecutive.

Example

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

Solution

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

11 Extra Region Sudoku

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

Example

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

Solution

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

12 Sudoku with Stars

Place either a digit from 1 to 7 or a star in each empty cell, so that each digit appears exactly once in each row, column and outlined region. There must be exactly two stars in each row, column and outlined region. Stars cannot be placed in adjacent cells that touch even at a corner.

Example

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

Solution

4	2	3	★	7	★	1	6	5
5	★	6	1	2	4	3	★	7
3	6	7	★	5	★	2	1	4
7	★	1	5	4	3	6	2	★
2	3	5	6	★	7	★	4	1
1	4	★	2	3	6	5	7	★
★	5	4	7	6	1	★	3	2
6	1	★	4	★	2	7	5	3
★	7	2	3	1	5	4	★	6

13 Determinant Sudoku

Apply classic sudoku rules. Additionally, the determinants of 2×2 matrices are given in the center of the four cells. The determinant of a 2×2 matrix is $a \times d - b \times c$, where a is the top left, b is the top right, c is bottom left and d is the bottom right element.

Example

1		2		3		4		5
				2				
	6						3	
					1			
5		4				3		2
				2				
	5						2	
2		3		4		5		6

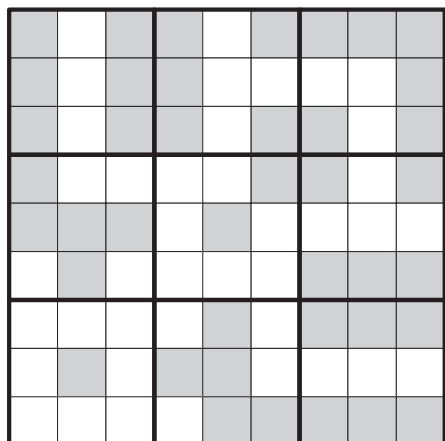
Solution

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

14 Crossnumber Sudoku

Fill in the white cells with the given number words, reading from left to right or from top to bottom. Each word will be used exactly once. Then solve the sudoku following classic sudoku rules.

Example



2431 7168
2637 8491
4316 8495
4931 8627
5876 8629
6517 8651
6798 9518

Solution

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