



WPF
SUDOKU/PUZZLE
GRAND PRIX
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WPF SUDOKU GP 2018
INSTRUCTION **BOOKLET**

ROUND 4

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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>

Version:

This is version 1 of the instruction booklet.

Points:

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TOTAL:

600

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

**1-5 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

6 Diagonal Sudoku

Apply classic sudoku rules. Each marked diagonal must also contain each digit from 1-9 exactly once.

Example

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

Solution

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



7 Search Nine Sudoku

Apply classic sudoku rules. Some arrows are marked in the grid. Each arrow points to the digit 9 in the respective row or column. The digit in the cell with the arrow is the distance from this cell to the corresponding digit 9.

Example

→					1			←
				2	3	8		
			3	6	9	2	7	
				4	8	6		
					5			
		↑						
	↑	→	→					
↓	→	→	→	↓				
	↑	↑	↑					
3		→						5

Solution

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

8 Fortress Sudoku

Apply classic sudoku rules. A number placed in a shaded cell must be strictly greater than numbers 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 Thermo Sudoku

Apply classic sudoku rules. Starting at the "bulb", digits placed along each marked thermometer must form a strictly increasing sequence.

Example

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

Solution

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

10 Cloned Shapes Sudoku

Apply classic sudoku rules. Each shape is cloned, including the digits it contains, without rotating or mirroring. The position of the digits inside each shape is fixed - the same digits have to be placed at the same positions inside the identical shapes. The digit may appear more than once in a shape.

Example

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

Solution

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



11 Perfect Squares Sudoku

Apply classic sudoku rules. If two horizontally or vertically adjacent cells (read from left to right and from top to bottom) form a two-digit perfect square, it is marked by a gray square. All two-digit perfect squares are marked.

Example

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

Solution

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

12 Double Kropki Sudoku

Apply classic sudoku rules. Adjacent cells containing numbers whose difference is 2 are marked with a white rhombus. Adjacent cells containing numbers whose ratio is 4 are marked with a black rhombus. Adjacent cells with no marking must not contain numbers either whose difference is 2 or whose ratio is 4.

Example

Solution

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



13 Inner Frame Sum Sudoku

Apply classic sudoku rules. Numbers outside the grid represents sum of 2nd, 3rd and 4th digit in the corresponding direction.

Example

	21	16	8	9	15	18	15	16	17	
19	3									16
12		9							3	17
11			5							20
10										12
10			3		2		7			20
14	9									11
21							3			10
21		7							6	12
17	5									17
	12	16	20	20	18	12	12	9	16	

Solution

	21	16	8	9	15	18	15	16	17	
19	3	4	8	7	6	9	2	5	1	16
12	7	9	1	2	5	8	6	3	4	17
11	6	2	5	4	1	3	8	9	7	20
10	8	5	2	3	9	7	1	4	6	12
10	4	6	3	1	2	5	7	8	9	20
14	9	1	7	6	8	4	5	2	3	11
21	2	8	4	9	7	6	3	1	5	10
21	1	7	9	5	3	2	4	6	8	12
17	5	3	6	8	4	1	9	7	2	17
	12	16	20	20	18	12	12	9	16	