



WPF
SUDOKU/PUZZLE
GRAND PRIX
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WPF SUDOKU GP 2023
INSTRUCTION **BOOKLET**

ROUND 2

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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, except puzzle 6 where digits 1-8 will be used.



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

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



1-5 Classic Sudoku

Place a digit from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 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 Odd-Even-Big-Small Sudoku

Place a digit from 1-8 in each empty cell in the grid such that each row, column and marked 2x4 box contains each digit exactly once. The clues outside the grid indicate that the first two cells in the corresponding direction must contain digits matching the following description:

O = Odd digits {1, 3, 5, 7}; E = Even digits {2, 4, 6, 8}; B = Big digits {5, 6, 7, 8}; S = Small digits {1, 2, 3, 4}.

Example

	1				8		
S		2					
			3				S
E				4			
					5		B
		7				6	
E	S	O	S				

Solution

	2	8	3	7	5	6	4	1	
	5	1	4	6	7	8	2	3	
S	1	4	2	8	6	3	7	5	
	7	5	6	3	8	4	1	2	S
E	8	6	5	2	4	1	3	7	
	3	7	1	4	2	5	8	6	B
	4	3	7	5	1	2	6	8	
	6	2	8	1	3	7	5	4	
E	S	O	S						



7 Substitution Sudoku

Apply classic sudoku rules. A cell with a letter must contain a digit whose mapped word contains the corresponding letter.

Example

U	H	R		N	E	F	N	
				I	G		T	O
	N	N		T	E	T	F	N
		H		O	E		V	
			O					
H	S				F	R	O	X
		S				I	S	U
V		W		X	F		V	H
			H		S	R		I

- 1 - ONE
- 2 - TWO
- 3 - THREE
- 4 - FOUR
- 5 - FIVE
- 6 - SIX
- 7 - SEVEN
- 8 - EIGHT
- 9 - NINE

Solution

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

8 Arrow Sudoku

Apply classic sudoku rules. Each digit placed in a cell with a circle must be the sum of the digits placed in the cells that the adjoining arrow passes through. Digits may repeat on arrows.

Example

○	→	4	5			2	
↓		○	3			7	○
	8		9	6			
	6		5		↙		
5		↖	6		↘		7
		↗		4		5	
		4	9		7		↑
○	7		5	○			
1			2	7	←		○

Solution

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

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



11 Palindrome Sudoku

Apply classic sudoku rules. Digits along any grey line form a palindrome i.e. they read the same in both directions.

Example

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

Solution

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

12 Fortress Sudoku

Apply classic sudoku rules. A digit placed in a shaded cell must be strictly greater than digits placed in orthogonally 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



13 Extra Large Regions Sudoku

Apply classic sudoku rules. Every marked region must contain each digit from 1-9 exactly twice.

Example

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

Solution

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

14 Partitioned Sums Sudoku

Apply classic sudoku rules. Clues outside the grid indicate the sum of the digit(s) in the respective row or column, when the row or column is partitioned at certain points (not given), in the correct order. Clues are either given for the entire row or column, or not given at all.

Example

		23			9			30			12
		7			13			5			13
		15			23			10			20
7	8	14	16			3				9	
				2							8
				1							7
						7					
7	14	8	16					8			
										9	
				4							1
						5					2
8	16	7	14					6			3

Solution

		23			9			30			12	
		7			13			5			13	
		15			23			10			20	
7	8	14	16	7	4	3	1	6	8	9	5	2
				6	2	9	5	4	7	1	8	3
				1	8	5	3	9	2	6	4	7
				9	6	8	7	5	1	2	3	4
7	14	8	16	2	1	4	6	8	3	5	7	9
				5	3	7	4	2	9	8	1	6
				4	9	2	8	3	5	7	6	1
				3	5	1	9	7	6	4	2	8
8	16	7	14	8	7	6	2	1	4	3	9	5