WPF SUDOKU/PUZZLE GRAND PRIX 2022

WPF SUDOKU GP 2022 INSTRUCTION BOOKLET

ROUND 1

Puzzle authors:

Japan

Shinichi Aoki (青木 真一)

Yosuke Imai (今井 洋輔)

Kota Morinishi (森西 亨太)

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.

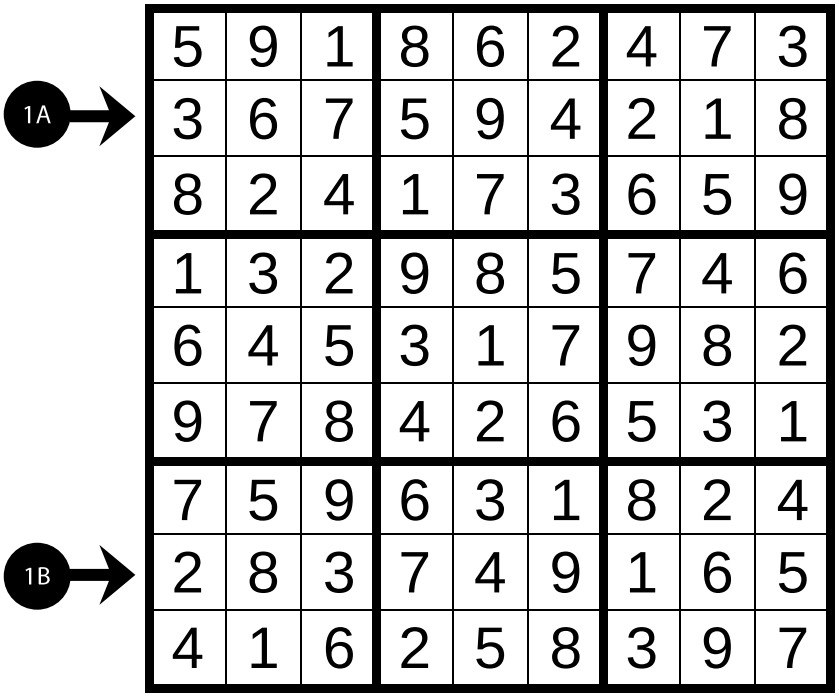
In the example, the two answer keys are:

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.

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TOTAL:		600

1-6 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

7 Irregular Sudoku

Place a digit from 1-9 in each empty cell in the grid such that each row, column and marked 9-cell region contains each digit exactly once.

Example

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

Solution

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

8 Non-Consecutive Sudoku

Apply classic sudoku rules. Digits 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

9 Clone Sudoku

Apply classic sudoku rules. Digits in the same place in both shaded figures must be identical.

Example

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

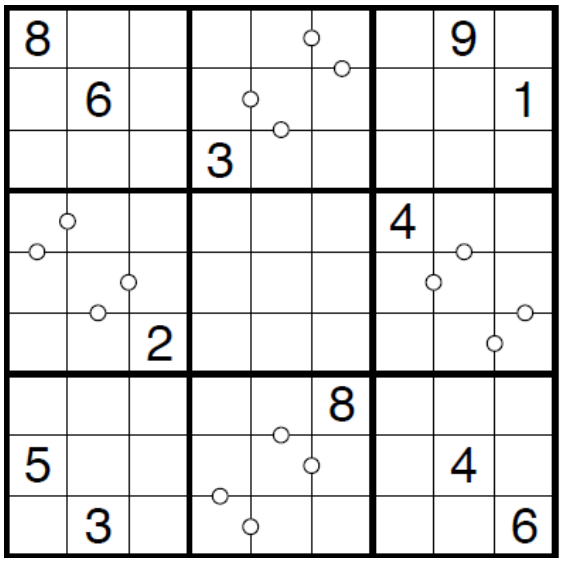
Solution

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

10 Consecutive Pairs Sudoku

Apply classic sudoku rules. If a circle is given between two adjacent cells, then the digits in those cells must be consecutive. Not all circles are given; adjacent cells without a circle may contain either consecutive numbers or non-consecutive numbers.

Example



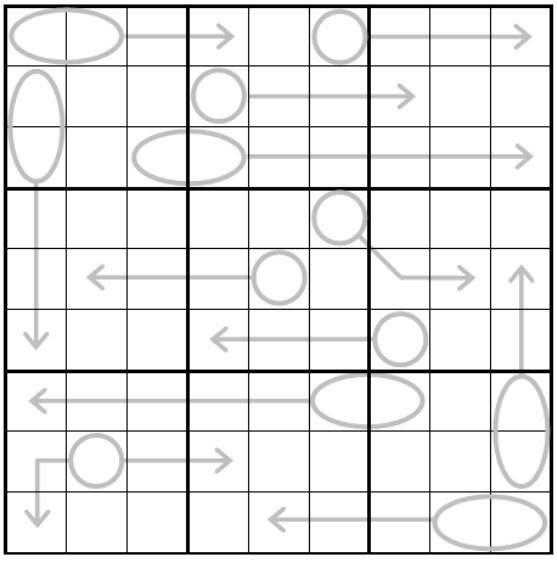
Solution

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

11 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 in ovals containing two cells are read top to bottom or left to right as a two-digit number which is equal to the sum of the numbers on the adjoining arrow. Digits may repeat on arrows.

Example



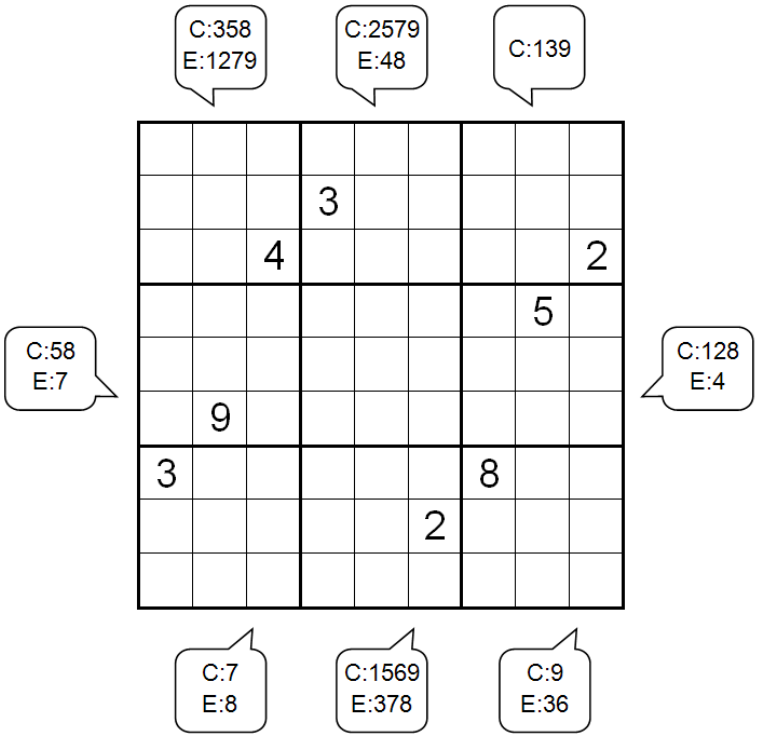
Solution

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

12 Corner/Edge Sudoku

Apply classic sudoku rules. Each speech balloon indicates C numbers which are in corner cells and E numbers which are in edge cells of the corresponding 3x3 box.

Example



Solution

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

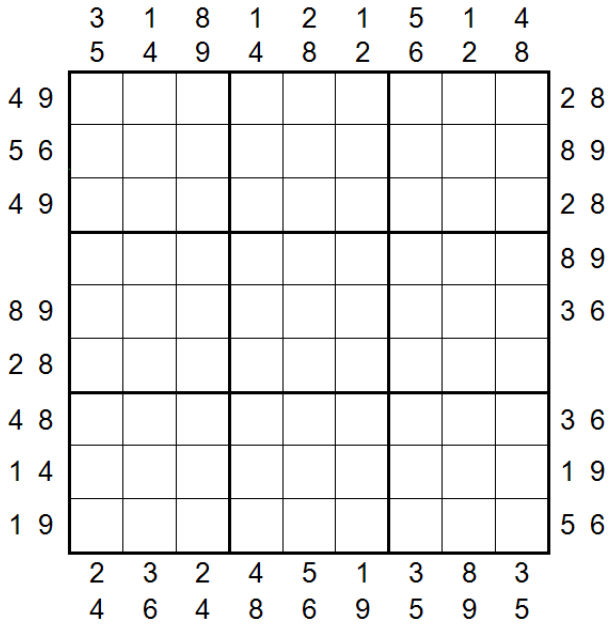
Note:

The coloured cells in the solution are for clarification only. In that 3x3 box the blue cells belong to the corner cells (C), the red cells belong to the edge cells (E).

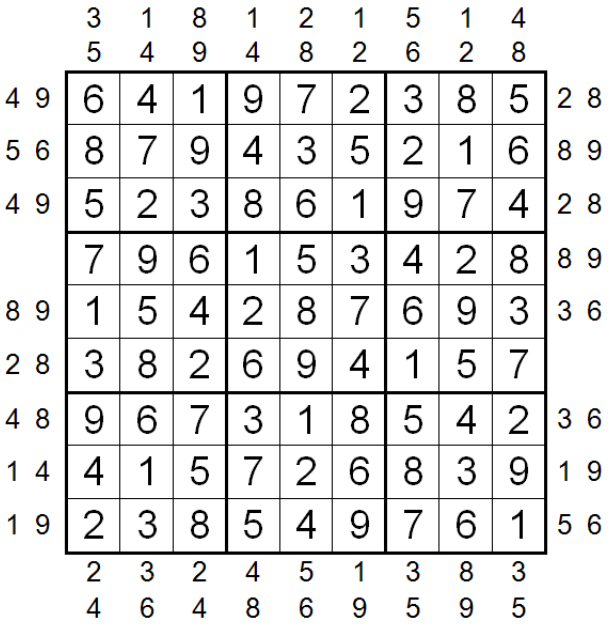
13 Descriptive Pairs Sudoku

Apply classic sudoku rules. For every pair of clues (X and Y) outside the grid at least one of the following is true:
1) X is in the Yth position in that direction;
2) Y is in the Xth position in that direction.

Example



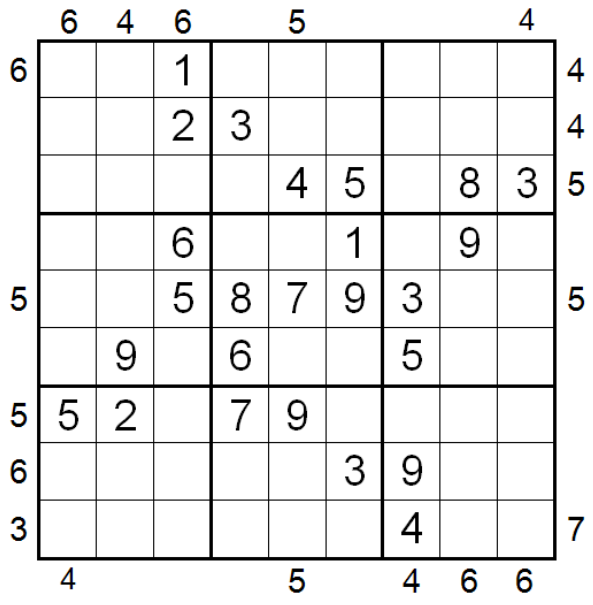
Solution



14 Bust Sudoku

Apply classic sudoku rules. A number (X) outside the grid is the minimum possible value for which the sum of the first X digits in the corresponding direction is greater than 21.

Example



Solution