WPF
SUDOKU/PUZZLE
GRAND PRIX
2015

WPF SUDOKU GP 2015
INSTRUCTION BOOKLET

ROUND 6

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Organised by

World Puzzle Federation

WPF **SUDOKU** GP
ROUND 6

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WORLD PUZZLE FEDERATION

General Answer Format:

Each Sudoku has two marked rows. You need to submit all digits from left to right.

All puzzles will use digits 1-9 in the submission. Double Doku will have two twelve-digit entries with three digits from 1-9 repeating in the submission row.

Examples: These examples are a mix of sudoku from the Czech authors, from past Sudoku GP rounds, and from Thomas Snyder.

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

This is version 1 of these instructions.

Points:

1	Classic Sudoku	15
2	Classic Sudoku	20
3	Classic Sudoku	20
4	Classic Sudoku	25
5	Classic Sudoku	45
6	Double Doku	50
7	Renban Group Sudoku	45
8	Irregular Sudoku	45
9	Nonconsecutive Sudoku	45
10	Extra Region Sudoku	50
11	XV Sudoku	65
12	Little Killer Sudoku	65
13	Pyramidal Sudoku	30
14	Skyscraper Sudoku	80
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

		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 Double Doku
Apply Classic Sudoku rules. Additionally, there are two overlapping classic sudoku grids, and both must have valid solutions.

Example

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

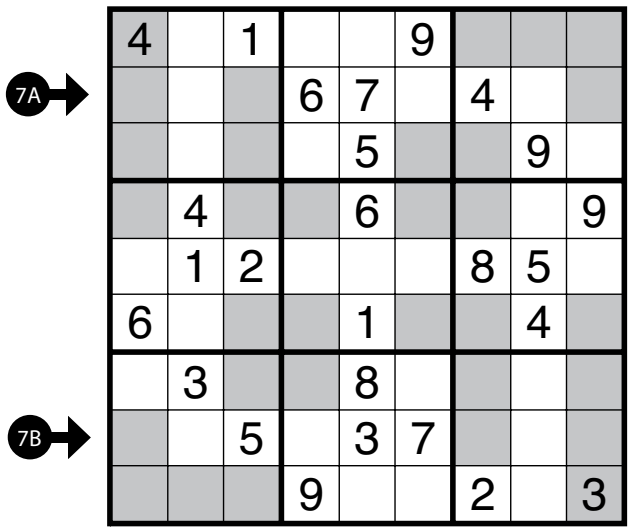
Solution

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

7 Renban Group Sudoku

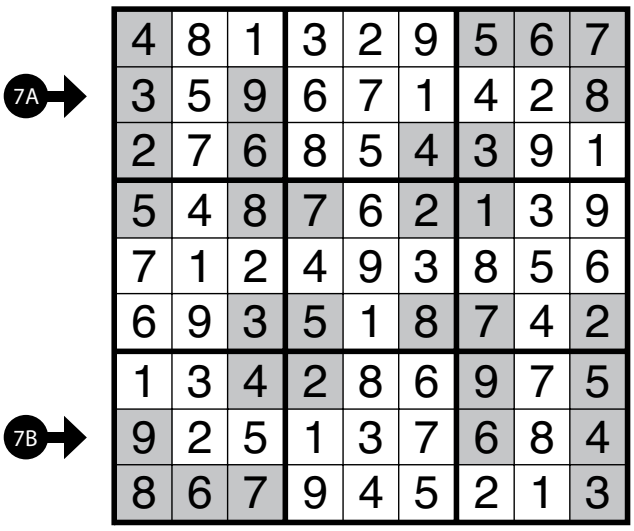
Apply Classic Sudoku rules. Additionally, each grey region contains a set of consecutive digits, with no constraint on the order of the digits.

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

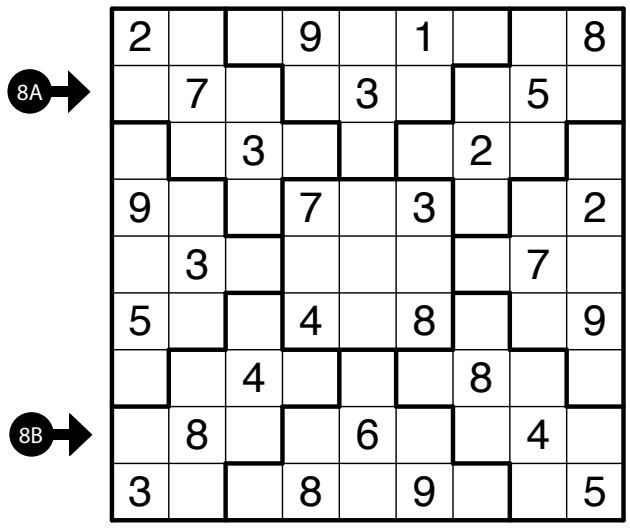


4	8	1	3	2	9	5	6	7
3	5	9	6	7	1	4	2	8
2	7	6	8	5	4	3	9	1
5	4	8	7	6	2	1	3	9
7	1	2	4	9	3	8	5	6
6	9	3	5	1	8	7	4	2
1	3	4	2	8	6	9	7	5
9	2	5	1	3	7	6	8	4
8	6	7	9	4	5	2	1	3

8 Irregular Sudoku

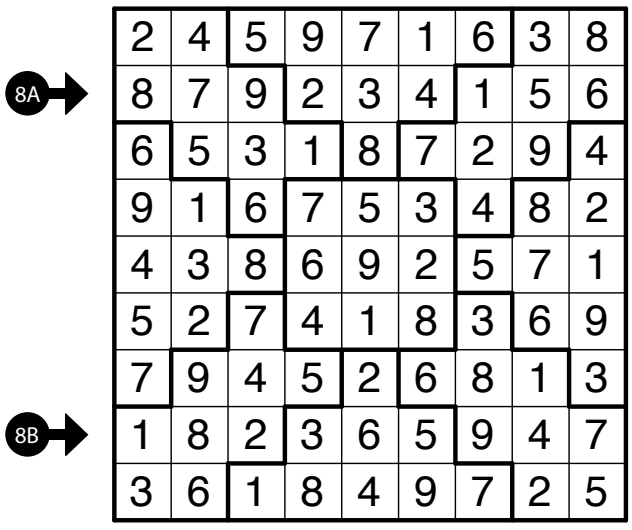
Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in every row, column, and outlined region.

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

9 Nonconsecutive Sudoku

Apply Classic Sudoku rules. Additionally, cells sharing an edge cannot contain digits differing by 1.

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

10 Extra Region Sudoku

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

Example

			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			

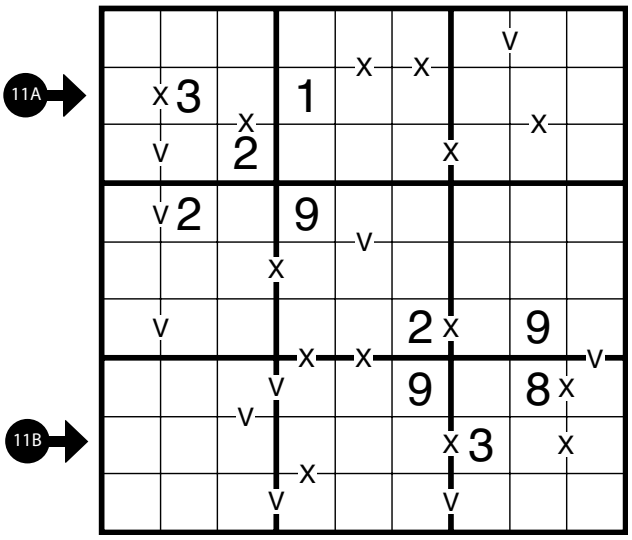
Solution

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

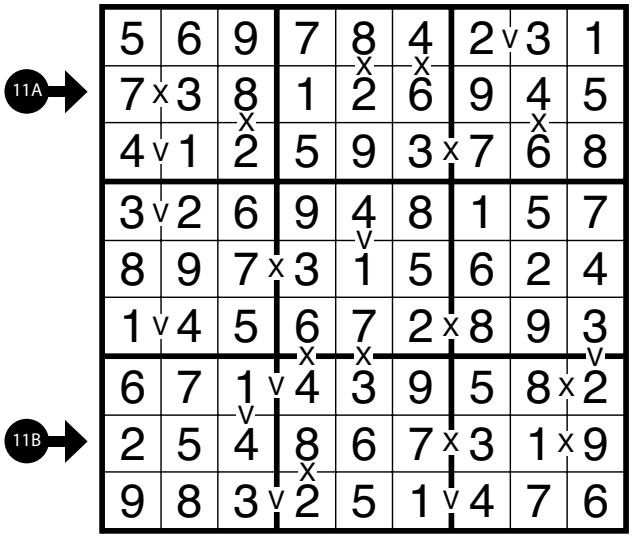
11 XV Sudoku

Apply Classic Sudoku rules. Additionally, if an X is given between two adjacent cells, the digits in those cells sum to 10. If a V is given between two adjacent cells, the digits in those cells sum to 5. If an X or V is not given, the two digits cannot sum to 5 or 10.

Example



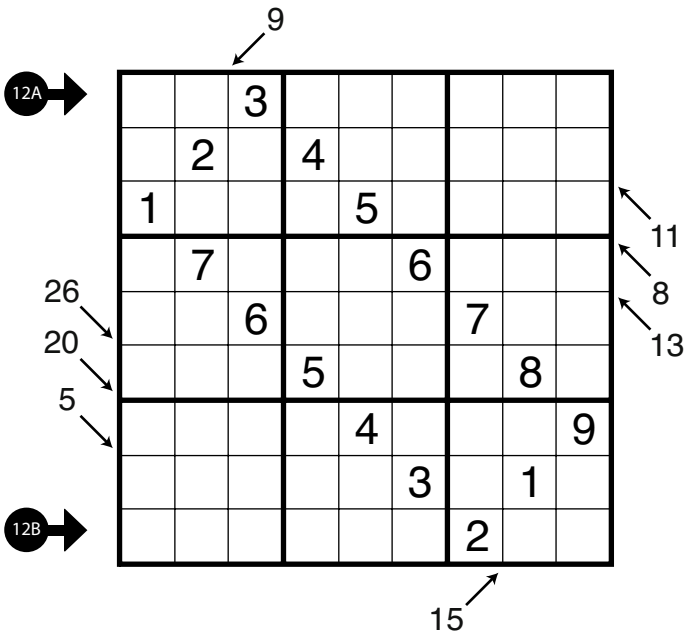
Solution



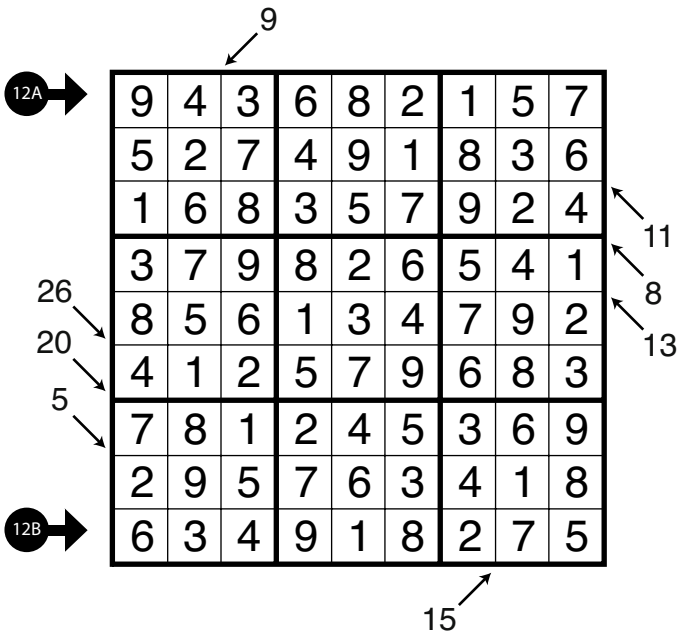
12 Little Killer Sudoku

Apply Classic Sudoku rules. Additionally, some numbered arrows outside the grid indicate the sum of the digits along that diagonal path. (Digits can repeat along a diagonal sum.)

Example



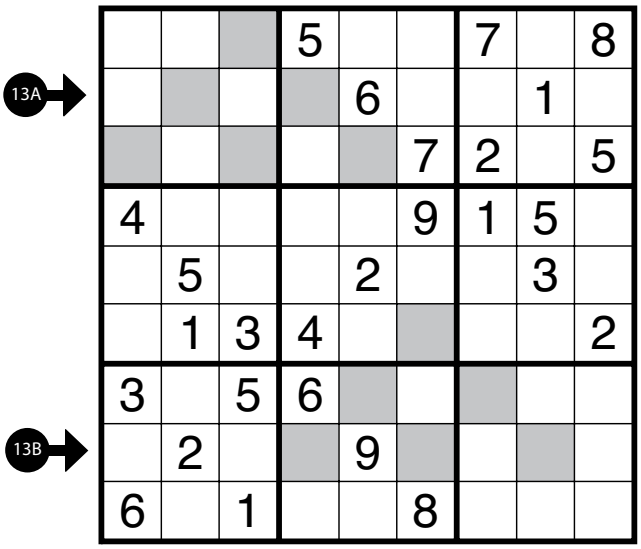
Solution



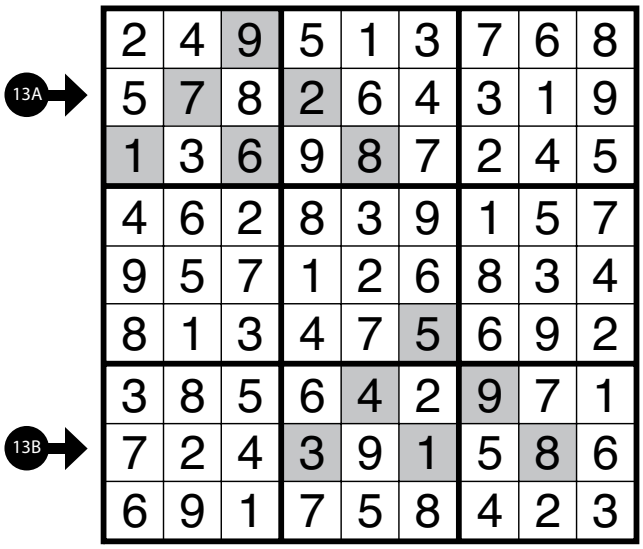
13 Pyramidal Sudoku

Apply Classic Sudoku rules. Additionally, there are some pyramids in the grid made out of grey cells. For each row above the base of the pyramid, each grey cell must equal either the sum or the difference of the two grey cells diagonally beneath it.

Example



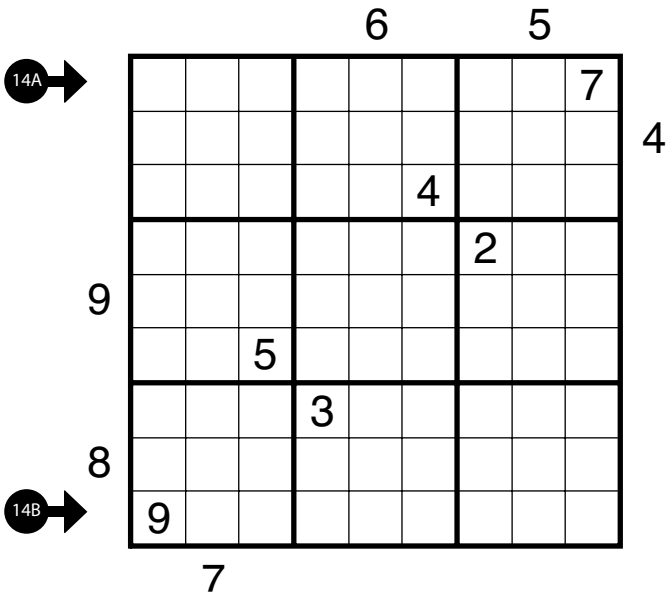
Solution



14 Skyscraper Sudoku

Apply Classic Sudoku rules. Additionally, each number in the grid represents the height of a building and the clues on the outside of the grid indicate how many buildings can be "seen" when looking from that direction. Taller buildings block the view of smaller buildings. (For example, if a row contained the numbers 169782354, then three buildings are seen from the left – 1, 6, and 9 – and four buildings from the right – 4, 5, 8, and 9.)

Example



Solution