





1 Classic Sudoku [14 points]

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.

\longrightarrow			6					4	
		5	9			4	3		
				8		2	9		
	3				6				9
		1						5	
$\stackrel{\text{1B}}{\longrightarrow}$	7				4				2
			3	1		5			
			4	9			6	3	
		8					7		

2 Classic Sudoku [22 points]

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.

-									
	2	1			7	4		3	9
					6				5
						5			
	3					9	8		
\longrightarrow		9	7				5	1	
			2	7					3
\longrightarrow				4					
	4				5				
	9	5		2	1			8	7







3 Classic Sudoku [24 points]

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.

	4		3					5	
\rightarrow				4					
	5				8	2		1	
				5			7	3	2
					2				
3B	2	4	9			1			
		7		6	4				9
						9			
		1					6		3

4 Classic Sudoku [30 points]

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.

Ī									
		6			2				5
4A		3	7			5			
						9	3		4
	3		9						
	2		5		4		6		3
							8		2
4B ->	7		1	3					
				5			7	8	_
	8				1			3	







5 Classic Sudoku [35 points]

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.

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

6 Classic Sudoku [65 points]

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.

ı									
		2		9				7	5
$\stackrel{\text{6A}}{\longrightarrow}$			9						
	8		7	5			9	3	
		4				2			
		7			9			4	
$6B \rightarrow$				8				1	
		3	4			5	7		2
							7		
	2	8				9		6	

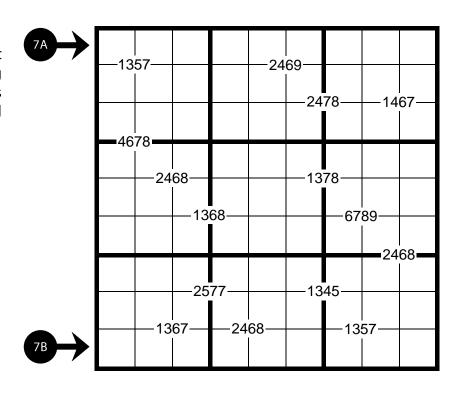






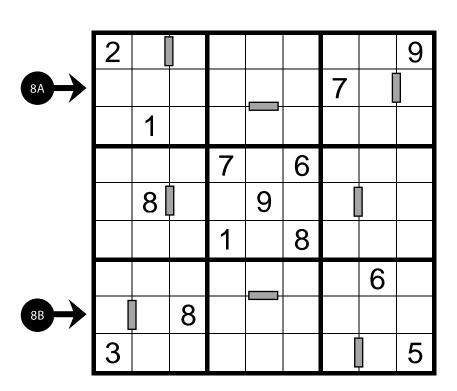
7 Quadruple Sudoku [29 points]

Apply classic sudoku rules. At some intersections of two crossing grid lines, a set of four digits is given. These digits must be placed in the four adjacent cells.



8 Consecutive Sudoku [42 points]

Apply classic sudoku rules. Adjacent cells containing consecutive digits are marked. Adjacent cells with no marking must not contain consecutive digits.



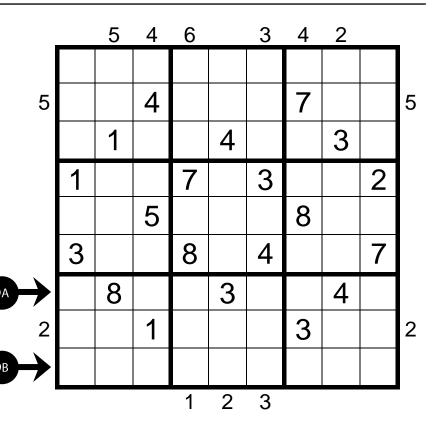






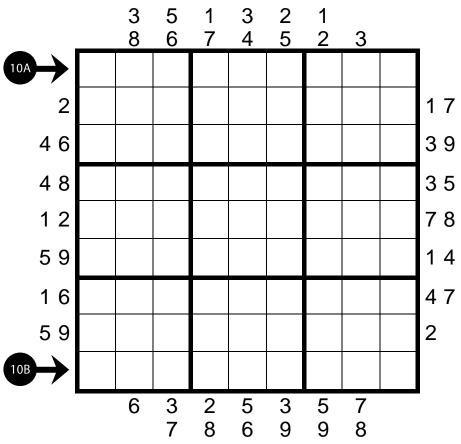
9 Skyscrapers Sudoku [21 points]

Apply classic sudoku rules. Each digit represents the height of a building. The clues outside the grid indicate the number of buildings visible from the corresponding direction. A taller building will hide any shorter buildings behind it.



10 Outside Sudoku [51 points]

Apply classic sudoku rules. The digits outside the grid must appear within the first three cells in the corresponding direction.



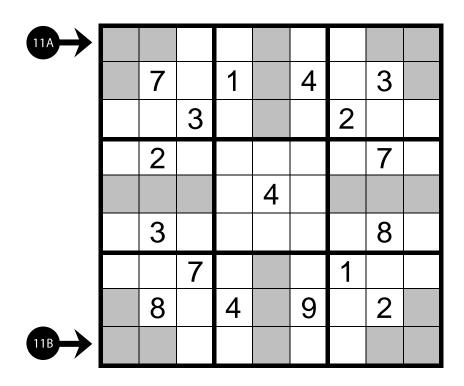






11 Renban Sudoku [29 points]

Apply classic sudoku rules. The digits placed in each shaded region must form a consecutive, non-repeating set.



12 Touchy Sudoku [32 points]

Apply classic sudoku rules. Each digit touches horizontally or vertically at least one consecutive digit.

-									
				1			9		
			1			7			
		5			2				8
	3			8				6	
			5				8		
12A		7				5			1
	6				8			5	
				3			1		
12B			3			1			







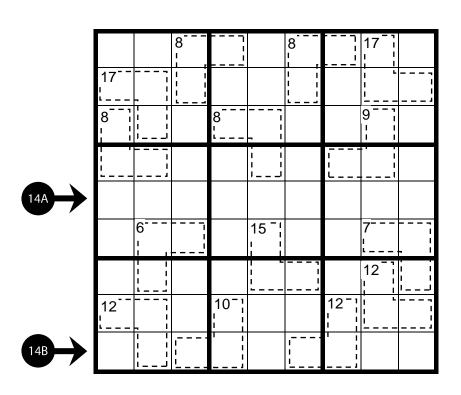
13 Rank Sudoku [40 points]

Apply classic sudoku rules. A digit 'X' in a circle means that the digit in the cell is the X-th smallest number in the corresponding cage. Digits cannot repeat within a cage.

	1	 	1	3	1		9		4
					6		8		
	3		3	;:			7	6	5
				! ! ! !		2	6		 -
	2			· · · · · · · · · · · · · · · · · · ·		3			
13A ->						 			1
	1	2	3			,	2	 	4
13B			4		3				
	9		5		4	1			

14 Killer Sudoku [92 points]

Apply classic sudoku rules. The digits placed in each marked cage must sum to the total given in its top-left. Digits must not repeat in cages.









15 Wildcard Sudoku [24 points]

Apply classic sudoku rules. One digit acts as a wildcard. Cells with '>' symbol contain digits greater than the wildcard. Cells with '<' symbol contain digits lesser than the wildcard. It is part of solving to determine the wildcard.

	>		4	5		>	٧	2	7
	7				٧			6	
			\	V	7	\	Λ		9
15A		V			>				3
	1		6	V	5	<	>		4
15B	3				Λ		7	^	
	5		٧	\	6	٧	4		
		8			V				6
	6	1	٧	^		9	8		\

16 Determinant Sudoku [50 points]

Apply classic sudoku rules. 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.

