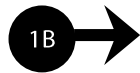
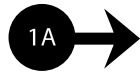




1 Classic Sudoku [28 points]

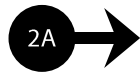
Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 box contains each number exactly once.



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

2 Classic Sudoku [30 points]

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 box contains each number exactly once.



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

**3 Classic Sudoku [41 points]**

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 box contains each number exactly once.

3A →

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

3B →

4 Classic Sudoku [37 points]

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 box contains each number exactly once.

4A →

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

4B →



5 Classic Sudoku [29 points]

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 box contains each number exactly once.

5A →

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

5B →

6 Cloned Shape Sudoku

[37 points]

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.

6A →

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

6B →

7 Ratio Sudoku [55 points]

Apply classic sudoku rules. Numbers placed in adjacent cells must satisfy the given ratios.

7A →
 7B →

			$\frac{1}{4}$	$\frac{3}{4}$			
$\frac{1}{2}$		$\frac{4}{5}$					$\frac{1}{3}$
	$\frac{3}{8}$		$\frac{3}{7}$				
$\frac{1}{2}$	$\frac{1}{4}$						
							$\frac{1}{2}$
					$\frac{5}{7}$		
				$\frac{1}{2}$		$\frac{1}{3}$	
$\frac{1}{2}$						$\frac{1}{8}$	$\frac{1}{3}$
			$\frac{2}{3}$	$\frac{2}{3}$			

8 X-Sums Sudoku [47 points]

Apply classic sudoku rules. The clues outside the grid indicate the sum of the first X numbers placed in the corresponding direction, where X is equal to the first number placed in that direction.

8A →
 8B →

									8
1									
			4	6					
5									22
			5	1					
9									
									36
			22	27	32				



9 Sum Nine Sudoku [28 points]

Apply classic sudoku rules. Adjacent cells containing numbers with the sum 9 are marked with a rhombus. Adjacent cells with no marking must not contain numbers with the sum 9.

9A →

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

9B →

10 Antikinght Sudoku

[46 points]

Apply classic sudoku rules. Numbers placed in cells related by a chess Knight's move must be different.

10A →

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

10B →

11 Diagonal Skyscrapers

Sudoku [69 points]

Apply classic sudoku rules. Each number represents the height of a building. The clues outside the grid indicate the number of buildings visible from the corresponding direction. A higher building will hide any lower buildings behind it. Each marked diagonal must also contain each number from 1-9 exactly once.

4 3 1 2 4 3

11A → 3

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

3 3 1 4 2

11B →

12 Average Arrows Sudoku

[87 points]

Apply classic sudoku rules. The number placed in a cell with a circle must be the arithmetic mean of the digits along the path of each arrow. Numbers may repeat on an arrow (including the circle).

12A →

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

12B →



13 Dead or Alive Arrows Sudoku

[66 points]

Apply classic sudoku rules. There are some white and grey arrows in the grid. The digit placed in the cell with white arrow must not repeat in the direction of the arrow. The digit placed in the cell with grey arrow is repeated at least once in the direction of the arrow.

13A →

13B →

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