

**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.

1A →

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

1B →

**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.

2A →

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

2B →

**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.

3A →

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

3B →

**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.

4A →

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

4B →

**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
					5		1	
					1		4	2
		4	2					
	3			7		1		8

5A →

5B →

**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.

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

6A →

6B →

**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.

7A →

1357	2469		
		2478	1467
4678			
	2468		1378
	1368		6789
			2468
	2577		1345
1367	2468		1357

7B →

**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.

8A →

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

8B →

### 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.

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

### 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.

		3	5	1	3	2	1		
		8	6	7	4	5	2	3	
10A									
2									1 7
4 6									3 9
4 8									3 5
1 2									7 8
5 9									1 4
1 6									4 7
5 9									2
10B									
		6	3	2	5	3	5	7	
			7	8	6	9	9	8	

**11 Renban Sudoku [29 points]**

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

11A →

	7		1		4		3	
		3				2		
	2						7	
				4				
	3						8	
		7				1		
	8		4		9		2	

11B →

**12 Touchy Sudoku [32 points]**

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

12A →

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

12B →

**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		
								①
1	2	3				②		④
		4		3				
9		5		4		①		

13A

→

13B

→

**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.

		8			8		17	
17								
8			8				9	
	6			15			7	
							12	
12			10			12		

14A

→

14B

→

**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.

15A →

15B →

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

**16 Determinant Sudoku [50 points]**

Apply classic sudoku rules. The determinants of 2x2 matrices are given in the center of the four cells. The determinant of a 2x2 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.

15A →

15B →

2								
				60				
								1
	10					40		
				50				
						80		
5				70				40
		40						
								3