Leet Code

Day-21 Q-02 Sudoku Solver

Write a program to solve a Sudoku puzzle by filling the empty cells.

A sudoku solution must satisfy all of the following rules:

- 1. Each of the digits 1-9 must occur exactly once in each row.
- 2. Each of the digits 1-9 must occur exactly once in each column.
- 3. Each of the digits 1-9 must occur exactly once in each of the 9 3x3 sub-boxes of the grid.

Empty cells are indicated by the character '.'.

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

A sudoku puzzle...

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

...and its solution numbers marked in red.

Note:

• The given board contain only digits 1-9 and the character '.'.

- You may assume that the given Sudoku puzzle will have a single unique solution.
 The given board size is always 9x9.