36. Valid Sudoku

Description

Determine if a [9 x 9] Sudoku board is valid. Only the filled cells need to be validated according to the following rules:

- 1. Each row must contain the digits 1-9 without repetition.
- 2. Each column must contain the digits 1-9 without repetition.
- 3. Each of the nine 3 x 3 sub-boxes of the grid must contain the digits 1-9 without repetition.

Note:

- A Sudoku board (partially filled) could be valid but is not necessarily solvable.
- Only the filled cells need to be validated according to the mentioned rules.

Example 1:

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

```
Input: board =
[["5","3",".","","","","","",""]
,["6",".","","","","","",""]
,[".","9","8",".","",","","",""]
,["8",".",".","8",".","","",""]
,["4",".",".","8",".","","","",""]
,[".","6",".",".","","","",""]
,[".","6",".","","","","","",""]
,[".","6",".","","","","","",""]
,[".","","","","","","","","",""]
Output: true
```

Example 2:

```
Input: board =
[["8","3",".","","","","","",""","""]
,["6",".","","","","","","","","",""]
,["8",".","","","","","","","","",""]
,["4",".","","","","","","","","",""]
,["7",".","","","","","","","","",""]
,["","","","","","","","","","","",""]
,["","","","","","","","","","","",""]
)Output: false
Explanation: Same as Example 1, except with the 5 in the top left corner being modified to 8. Since there are two 8's in the top left 3x3 subbox, it is invalid.
```

Constraints:

- board.length == 9
- board[i].length == 9
- board[i][j] is a digit [1-9] or ['.'].