Validate Sudoku Board [LeetCode](https://leetcode.com/problems/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:**

**Input:** board =

[["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"]]

**Output:** true

**Example 2:**

**Input:** board =

[["8","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"]]

**Output:** false

**Approach 1: Function to check if a Sudoku board is valid**

**Function Purpose:**

Check if a given Sudoku board is valid.

**Explanation:**

* **isPossible Function:**
  + Checks if placing a value at a specific position is valid in the Sudoku grid.
  + Validates the value in the current row, column, and the 3x3 subgrid.
* **isValidSudokuHelper Function:**
  + Iterates through each cell in the board.
  + Temporarily removes each non-empty cell value for validation.
  + Calls **isPossible** to check the validity of each placement.
  + Restores the removed value after validation.
  + Returns true if all placements are valid.
* **isValidSudoku Function:**
  + Initializes the validation process by calling **isValidSudokuHelper**.
  + Returns true if the board is valid.

**Time Complexity:**

* **The time complexity is O(1) because the size of the Sudoku board is fixed.**

**Space Complexity:**

* **The space complexity is O(1) as no additional space is used that scales with the input size.**