

Sudoku Solver

Try to solve the Sudoku Solver problem.

We'll cover the following ^

- Statement
- Example
- Understand the problem
- Figure it out!
- Try it yourself

Statement

Given a 9 x 9 sudoku board, solve the puzzle by completing the empty cells. The sudoku board is only considered valid if the rules below are satisfied:

- Each row must contain digits between 1–9, and there should be no repetition of digits within a row.
- Each column must contain digits between 1–9, and there should be no repetition of digits within a column.
- The board consists of 9 non-overlapping sub-boxes, each containing 3 rows and 3 columns. Each of these 3 x 3 sub-boxes must contain digits between 1–9, and there should be no repetition of digits within a sub-box.

Constraints:

- `board.length = 9`
- `board[i].length = 9`
- `board[i][j]` is a digit or `.`
- The input board is guaranteed to have one solution.

Example

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

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4 1 5 7

Problem

1 of 3



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Sudoku Solver

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Is the 9 x 9 sudoku board given below valid?

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

A) Yes

B) No

Submit Answer



Question 1 of 2
0 attempted



Reset Quiz ↺

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Note: As an additional challenge, we have intentionally hidden the solution to this puzzle.

 Drag and drop the cards to rearrange them in the correct sequence.

Else, we move to the next cell.



Backtrack if the solution is not yet present, and remove the last number from the cell.

Write down that number that is now present in the current row, column, and box.

One by one, place all numbers between 1 and 9 in the current cell, if that number isn't already present in the current row, column and 3x3 sub-box.

If we reach the last cell, that means we've successfully solved the sudoku.

Start iterating the board from the top left cell until we reach the first free cell.

Reset

Submit

Try it yourself

Implement your solution in the following coding playground.

Note: We have left the solution to this challenge as an exercise for you. You may try to translate the logic of the solved puzzle into a coded solution.



usercode > SolveSudoku.java

```
1 class SolveSudoku {
2     public static char[][] solveSudoku(char[][] board) {
3         // Write your code here
4         // you have to return the resultant board
5         return board;
6     }
7
8 }
```



Case 1 Case 2 Case 3

[illegible]

← Back

Next →

Matchsticks to Square

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