

# Sudoku Solver - LeetCode

 [leetcode.com/problems/sudoku-solver](https://leetcode.com/problems/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 **'.'**.

A sudoku puzzle...

...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**.

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

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

