



SUDOKU SOLVER

Sudoku is a puzzle in which missing numbers are to be filled into a 9 by 9 grid of squares which are subdivided into 3 by 3 boxes so that every row, every column, and every box contains the numbers 1 through 9.

Sudoku is a puzzle based on a small number of very simple rules:

- Every square has to contain a single number
- Only the numbers from 1 through to 9 can be used
- Each 3×3 box can only contain each number from 1 to 9 once
- Each vertical column can only contain each number from 1 to 9 once
- Each horizontal row can only contain each number from 1 to 9 once

Add() -> to add the number to the sudoku

delete()-> to delete number from the sudoku

reset()-> to set the sudoku at it's initial stage

validate()-> to check whether the sudoku is valid i.e possible or not

DEMONSTRATION



```
File Edit Selection View Go Run Terminal Help solvesudoku.c - SUDOKU-C-Project - Visual Studio Code

EXPLORER
  OPEN EDITORS
    solvesudoku.c M
  SUDOKU-C-PROJECT
    README.md
    solvesudoku.c M
    solvesudoku.exe U

C solvesudoku.c M
C solvesudoku.c > ...
1  /* C Project --> SUDOKU */
2
3  #include<stdio.h>
4  #include<stdlib.h>

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

6 | 3 9 6 | 5 7 4 | 8 0 0 |
7 | 0 4 0 | 6 1 8 | 3 9 7 |
8 | 7 6 1 | 0 4 0 | 5 2 8 |
9 | 9 3 8 | 7 2 5 | 0 6 0 |

1. Press A to add a number
2. Press D to delete a number
3. Press V to validate Sudoku
4. Press R to Reset
5. Press Q to exit game
Enter your Choice:V

All the empty space are to be filled before validation
0 | 1 2 3 | 4 5 6 | 7 8 9 |
1 | 1 2 0 | 4 5 6 | 7 8 9 |
2 | 4 5 7 | 0 8 0 | 2 3 6 |
3 | 6 8 9 | 2 3 7 | 0 4 0 |
4 | 0 0 5 | 3 6 2 | 9 7 4 |
5 | 2 7 4 | 0 9 0 | 6 5 3 |
6 | 3 9 6 | 5 7 4 | 8 0 0 |
7 | 0 4 0 | 6 1 8 | 3 9 7 |
8 | 7 6 1 | 0 4 0 | 5 2 8 |
9 | 9 3 8 | 7 2 5 | 0 6 0 |

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