

DATA ANALYSIS AND ALGORITHMS

Project Topic :- Sudoku (Puzzle-solving)



Group Details



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Features Of The Game

- Theme Changing
- Hints at certain stages
- Register and create a profile

ALGORITHMS TO BE USED

Backtracking

Time Complexity

For every unassigned index, there are 9 possible options so the time complexity is $O(9^{(n*n)})$.

The time complexity remains the same but checking if a number is safe to use is much faster, $O(1)$

Space Complexity

To Store the output array a matrix is needed, and 3 extra arrays of size n are needed for the bitmasks.

Thank You!