**SUDOKU SOLVER**

**OBJECTIVE**

The objective was to create a program that can check if the entered Sudoku is solvable or not and if Sudoku is solvable than solve it using backtracking in C/C++.

**ABOUT**

The program is created in C++ language using dev C++.The program first ask the user to enter the Sudoku and then check if the Sudoku is correct or not the solve it if the Sudoku is found to be correct.

The program has six user defined functions each with different tasks and 3 header files.

1. Display() – This function display the Sudoku.
2. Input() – This function is used to input the values of Sudoku.
3. Checker1()- this function checks if the Sudoku is correct or not. It check in column and row for the duplicate value.
4. Checker2()- this function checks if the Sudoku is correct or not. It check in sub matrix for the duplicate value.
5. Validcheck()- This function checks if a value can be entered at a position or not.
6. Solver() – This function is called in main and calls validcheck() then assign the correct values to the empty spaces in the Sudoku using backtracking and recursion.

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