**Sudoku Solver**

Given a 9\*9 sudoku board, in which some entries are filled and others are 0 (0 indicates that the cell is empty), you need to find out whether the Sudoku puzzle can be solved or not i.e. return true or false.

bool check(int board[][9],int x,int y){

int start=x/3;

int end =y/3;

for(int k=0;k<9;k++){

if(board[k][y]==board[x][y] && x!=k)

return false;

}

for(int k=0;k<9;k++){

if(board[x][k]==board[x][y] && k!=y)

return false;

}

for(int i=3\*start;i<(3\*start+3);i++)

{

for(int j=3\*end;j<(3\*end+3);j++)

{

if((i!=x || j!=y ) && board[x][y]==board[i][j])

return false;

}

}

return true;

}

bool sudokuSolver(int board[][9]){

for(int i=0;i<9;i++)

{

for(int j=0;j<9;j++)

{

if(board[i][j]!=0)

{

if(!(check(board,i,j)))

return false;

}

}

}

return true;

}