**Rat In a Maze**

You are given a N\*N maze with a rat placed at maze[0][0]. Find and print all paths that rat can follow to reach its destination i.e. maze[N-1][N-1]. Rat can move in any direc­tion ( left, right, up and down).

Value of every cell in the maze can either be 0 or 1. Cells with value 0 are blocked means rat can­not enter into those cells and those with value 1 are open.

You need to explore path in following order - Up , Down,Left,Right

#include<bits/stdc++.h>

void rathelper(int maze[][20],int n,int\*\* solution,int row,int col)

{

if(row==n-1 && col==n-1){

solution[row][col]=1;

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

{

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

{

cout<<solution[i][j]<<" ";

}

}

cout<<endl<<endl;

// solution[row][col]=0;

return;

}

if(row>=n || row<0 || col>=n || col<0 || solution[row][col]==1 || maze[row][col]==0){

return;

}

solution[row][col]=1;

rathelper(maze,n,solution,row-1,col);

rathelper(maze,n,solution,row+1,col);

rathelper(maze,n,solution,row,col-1);

rathelper(maze,n,solution,row,col+1);

solution[row][col]=0;

return;

}

void ratInAMaze(int maze[][20], int n){

int\*\* solution=new int\*[n];

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

{

solution[i]=new int[n];

}

//memset(solution,0,n\*n\*sizeof(int));

rathelper(maze,n,solution,0,0);

}