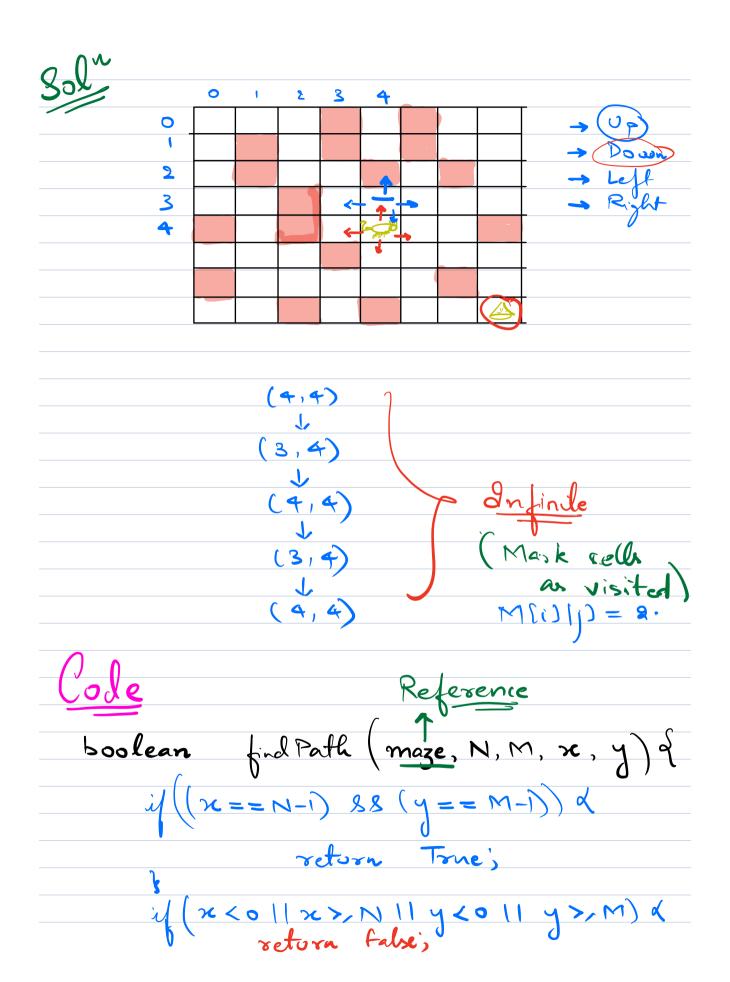
1) Rat in a maze
2) Entension
3) N d ween
Given a maze (2D matrix) (NXM)
D'anitial location of the mouse (x, y), 2) Location of cheese (N-1, M-1)
Return true of there emiss a path from the imital bootism to the cheese
M[i][j] (open) (bloked)
$(x-1,y)$ $(x,y-1) \leftarrow (x,y) \rightarrow (x,y+1)$ $(x+1,y)$
J′



```
\frac{1}{\sqrt{\max\{n\}[y]}} = \frac{1}{\sqrt{\max\{n\}[y]}} = \frac{2}{\sqrt{2}}
                  return false;
        maze[n][y] = 2;
      bool result = find Path (maze, NI, M, x-1, y)

find Path (maze, NI, M, x+1, y)

OR
                    find Path (maze, N, M, x, y+1)
                    find Path (maze, N, M, x, y-1);
     maze [x][y] = 0;
     return result;
                                      (MXM) or
      Rat in a maze.
      Given
                       of paths from start
Count the
```

to End s.t. the vat can est all the cheese present in the maze w/s Stepping on the same cell twice. in one path. No. of cheese extension a path. Globel => mage, N, M, Si, S, ei, ej, total Cheese cur cheese = 0 int Count Path (2, 3) x x<011 x>, N 11 y<011 y>, m) d return o', 4 if (maze[x][y] == 1 || maze[n][y] == 3) d return o', k

```
if ((x== ei) 88 (y== ej)) d
           if (curr Cheese = = total Cheese) 1
return 1;
if (maze [n] [y] = = 2) \propto

cur Cheese ++;
int temp = maze [n][y];
maze[n][y] = 3;
int are = count Path (x+1,y)
                count Path (x-1, y)
                 count Path (x, y+1)
                 count Path (x, y-1);
 maze [x][y] = temp;
if (maze [2][4] = = 2) < car Cheese --;
```

N Ducen Problem. Google Given a NXN chessboard

PB N Queens.

MS

Flight Arrange the gueens in the board

Paypel 8t.

Allole No queens targets any other

i gueen. N=1 N= 2

