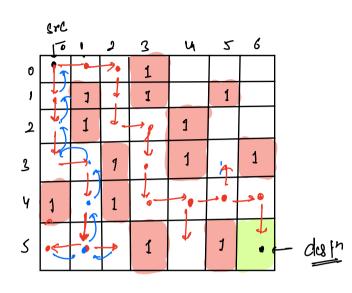
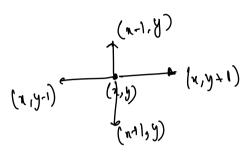
Rat in a More.

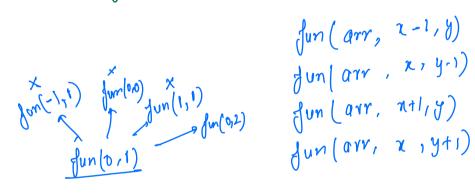
N-6, M=7



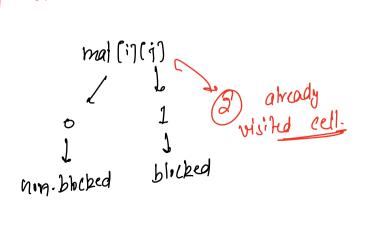


1 - blocker cell.

Bf. by out all the possibilities.



I don't visit the already visited cells.



```
boolean check [ i, j, mat [n](m], n, m) {
    if ( i = n-1 de j == m-1) freturn true }
    14 (120 | 1 + 20 | 1 = 2n | 1 = m) freturn falk?
    if [ mat[i][j] == ] || mat[i][j] ==2) f return falk }
         mat [i](j] = 2 :
            check [ i-1, j, mat, n, m) |
 return
            chick (i, j-1, mat, n, m) |
            check ( 1+1, 9, mat, n, m) 11
            check (1, j+1, maf, n, m)
Z
                                                           Chuck (0,0)
                           J.C → O(N*M)

S.C → O(N*M)
                                               (nde -1,0) (nck 0,-) chick (1,0)
                                   necursive
                                     stack
                                                          chick (0,0)
```

for all the pathy from sre to dust =0

undo the change.

for a single path from sre to dust =0

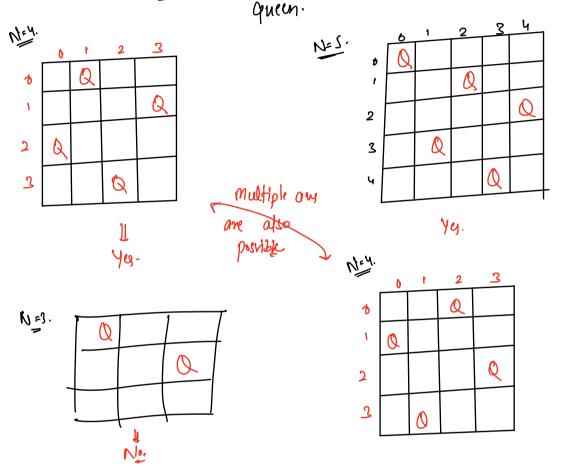
undo is not required.

1-up 2-left 2-doen 4- right

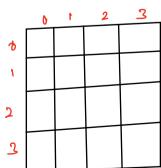
N Queens.

chusboard - N+N

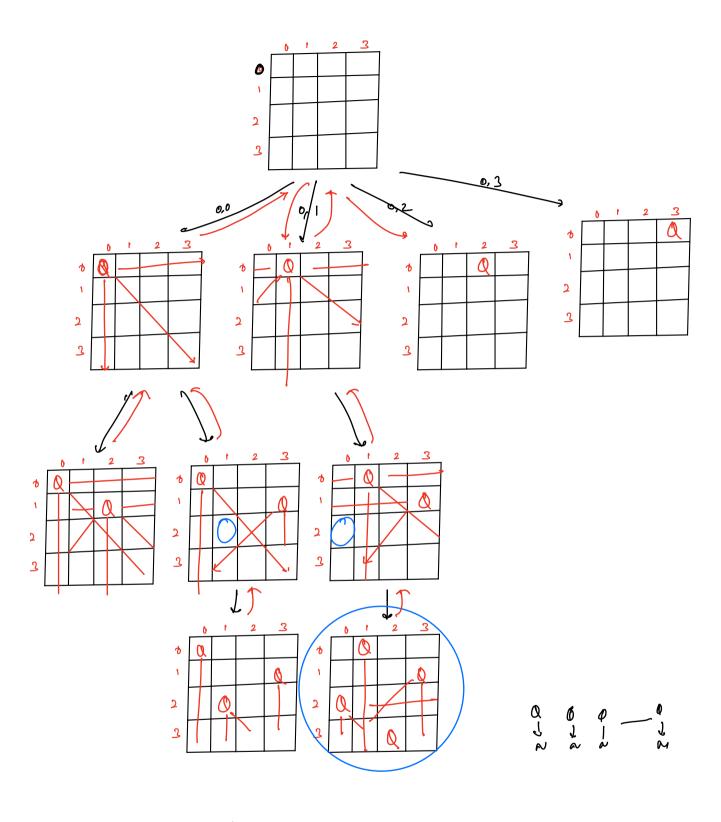
Al Queens. - such that no queen is killing another queen.



objer- We can't have more than I queen in a row.

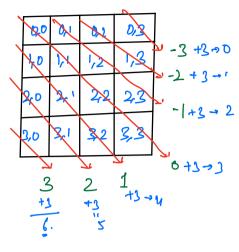


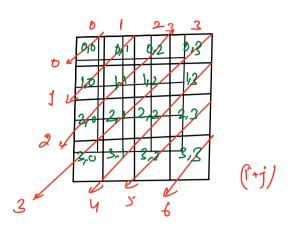
have N column available as options. for Every guer, we

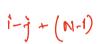


<u>d.j.</u> - (01[j] = hue:

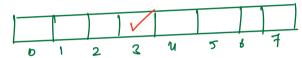
(i-j)



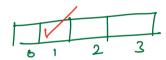




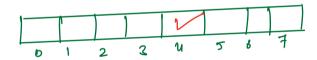




Cols-



d »



```
Nauerus ( i , mat 17(7, cols(7, antidiag(7, diag(7)))
      if (YOW = = N) { // print the current config. of matrix, return }
           for (j=0; j < N; j++) {
                 if (cols(j) = 1) and (i+j) = 1 and (i-j+N-i) = 1 and (i-j+N-i) = 1 continue;
                mat(i7(j) = 1 //put a quen af ii,j
                   Cols [j] = force
                  anti-day (i+j) = bou
                     dlag (i-j+N-1] = bou
                   Nauerns ( i+1, mat, 1011, antidag, diag)
                    mat(i7(j) = 0
                       cols[j] = falu
                     anti-day (i+j) = falu
                        dlag [i-j+N-1] = falk
                                     0th row- N
               T. L - O (N!)
```

<u>Sudoku</u>.

		1	2	3	ч	5	G	។	8
	<u>6</u>	3			7				
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-1				4	<u> </u>	<u>ح</u>			
8					8			7	9
ľ									

Solve Sudoku

isvalid.

No duplicocy.