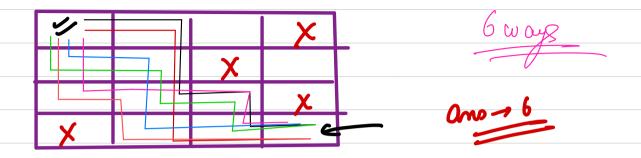
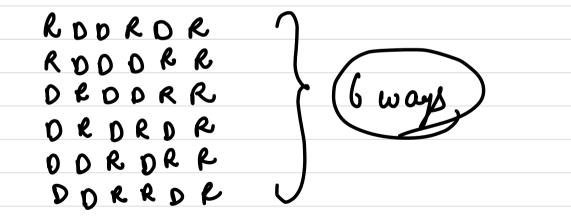
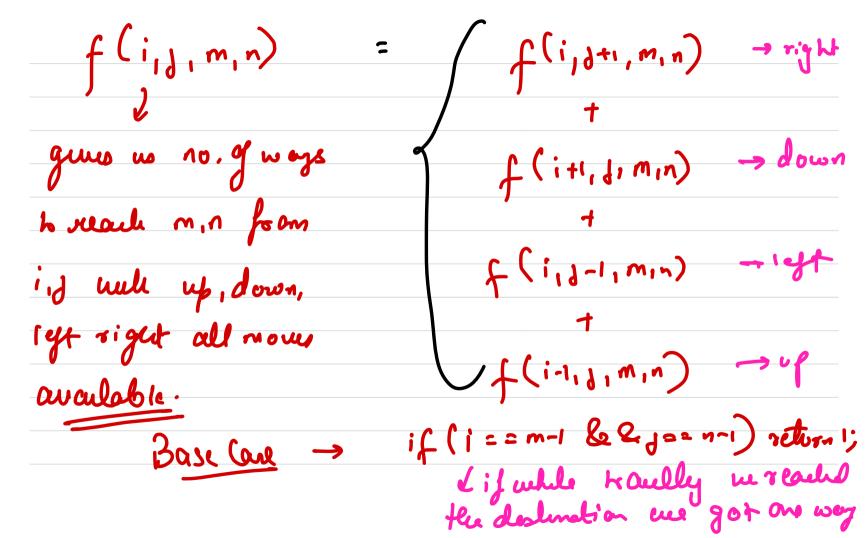
In Criven a grid with few blocked cells and few open cells: We are standing on the top left of the grid and want to reach the bottom rught: In one move from any cell, we can go to the cell on up, down, left or right direction. Count the no. of ways h reach bottom right.



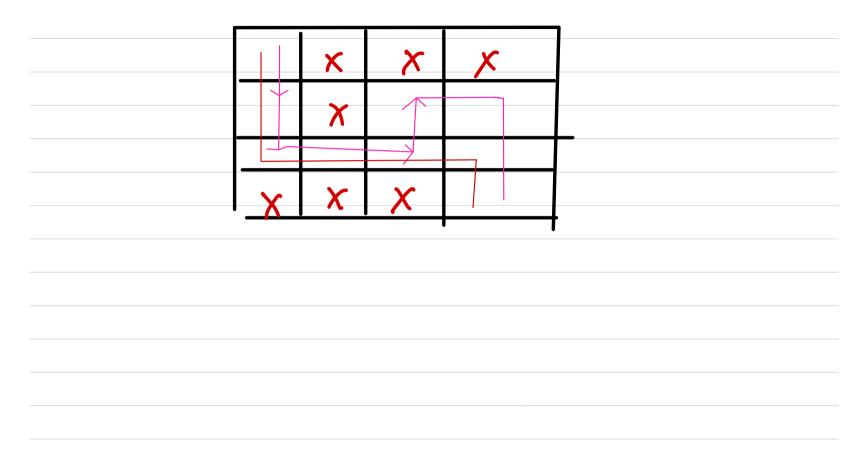


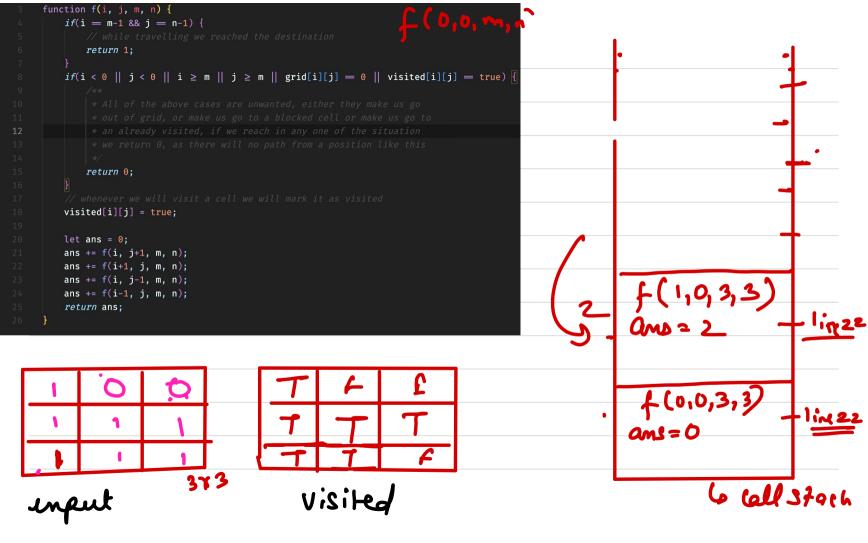
⇒ Observations →) from a cell (i,d), assum un go siget (i,d41) Now from (i,j+1) we cannot go left. o thereuse a cycle cuill be generaled- So, une will not go back to the parent cell. How to achieve the 2?

We can say that, if we keep a grid where Cuery cell that we touch in a fath is marked visited, then for that both an will rever 90 back again on a visited cell-



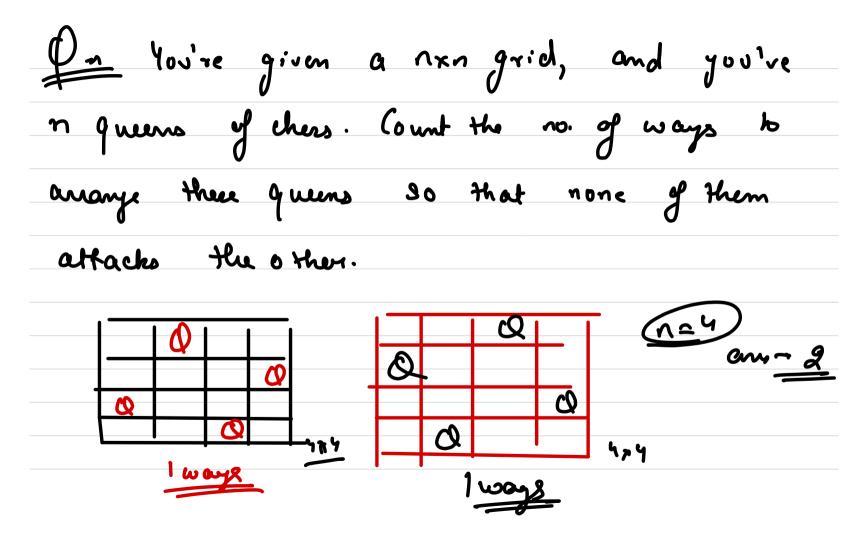
if (ico or jco or ism or jsn or visited [i][j]==brue or grid[i][j]==0)(
retu==0; If any of the above conditions hold true, then une mell be outside of the grid: or on a un wanted cell, so no. 9 ways to reach dest mell be 0; 9, :d[:)[j] -0 -610eked -1 - 0pm

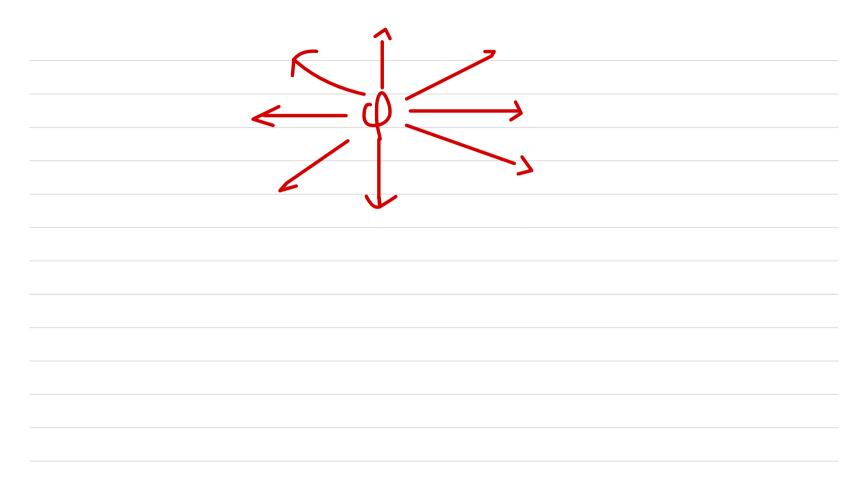




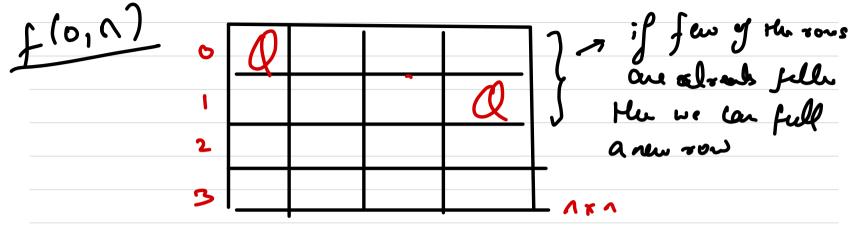
Backtracky

Backtrackey is a way of saley of problems in which we trouble lowards our ans & make changes in state : Irrespective of the fact that whethe me got a valid ans or rot, me will revert the changes done in the state.





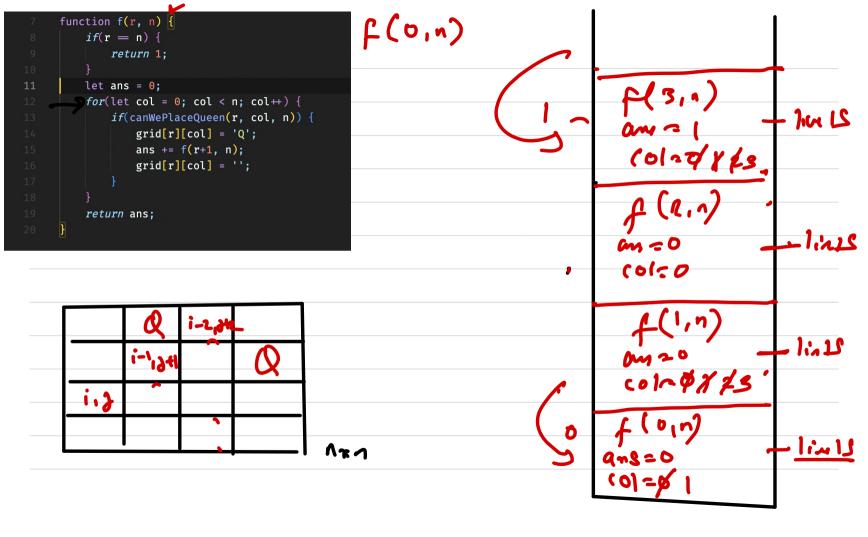
observations i) if we have noquement that we have to flave, en e non board, then on each row we can place at most 1 quem: That means on every row we are bound to place a quem-

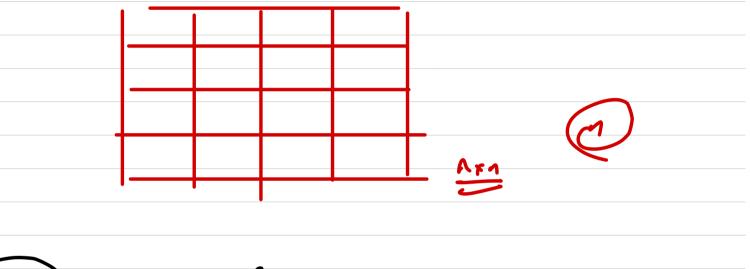


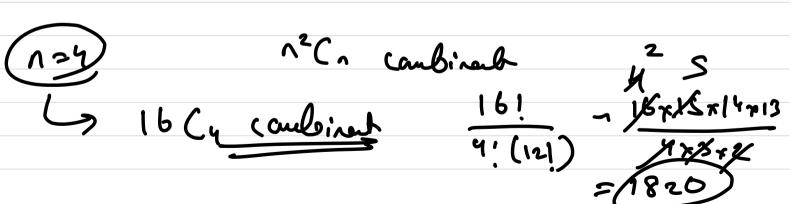
we will go to the neut row, if and only if we have flaced the puer on the ament row.

placequen on the rt row

> f (r+1, n) the fue places the quen from the of the row







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			ccusia.		