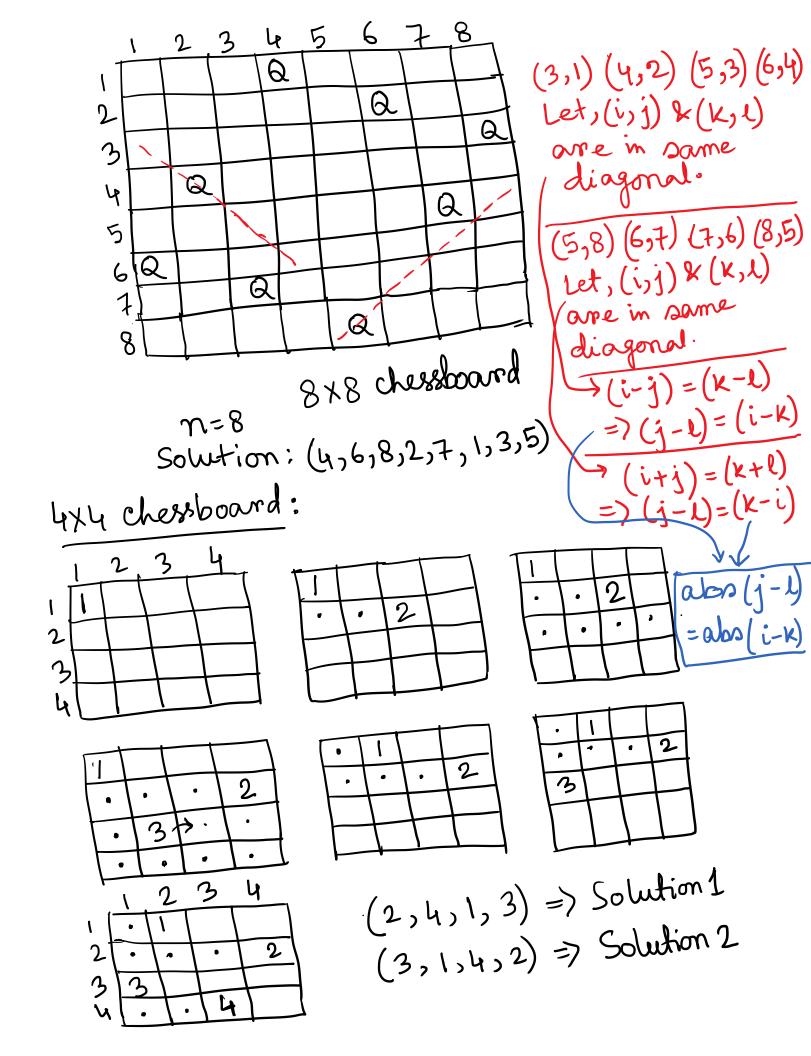
Backtracking -> Another algorithm find all solutions. design technique We will find all solutions.
(Brute force approach) Backtracking Balls: R G B State space tree: N-Queen's problem: Place n-queens in a nxn chersboard so that no two of them can attack. i.e no two of them are on the same rows column or diagonal.



Algorithm NQueens (x,n)
{// print all possible solutions using
// backtoneking for i:=1 to n do if (Place(k,i)) then Solution array if (x=n) then point (x[1:n]) else NQueens (K+1,77) Algorithm Place (K,i) 2 1/ returns toue if a is placed at kth row 1/ and ith column, otherwise returns false for j:=1 to (x-1) do // check for all previous. Zif ((x[i]=i) / in the same column or (Abs(x[j]-i) = Abs(j-k)) then return false return true