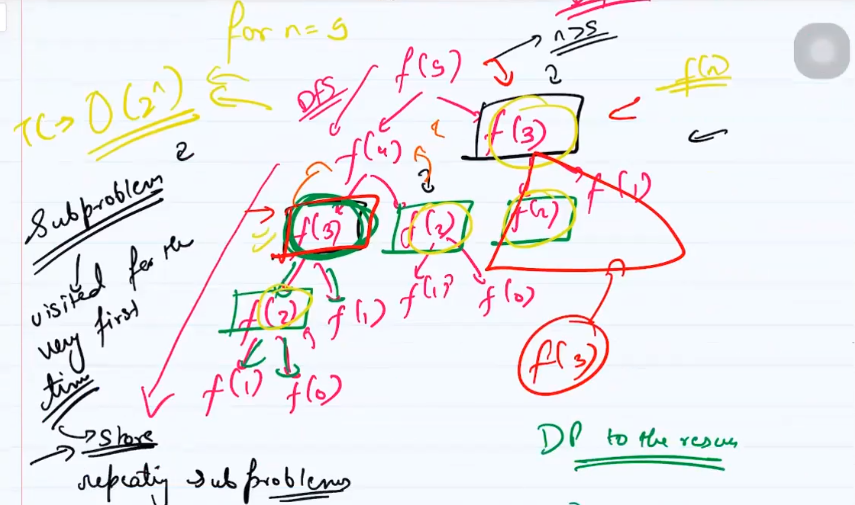
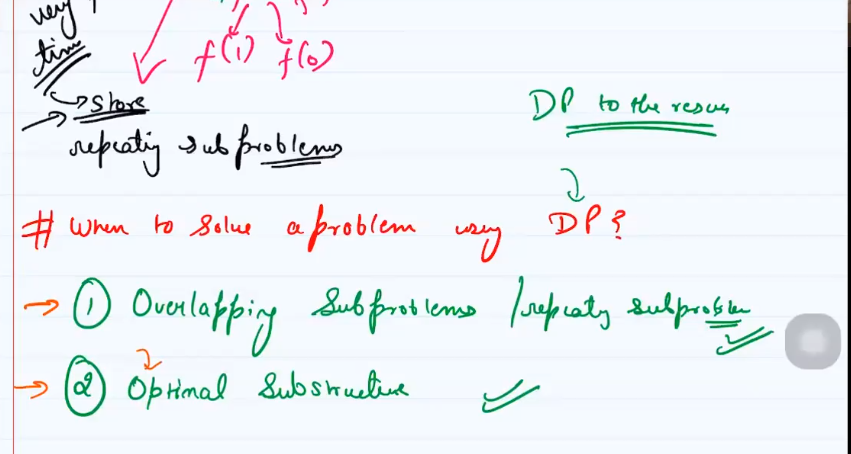
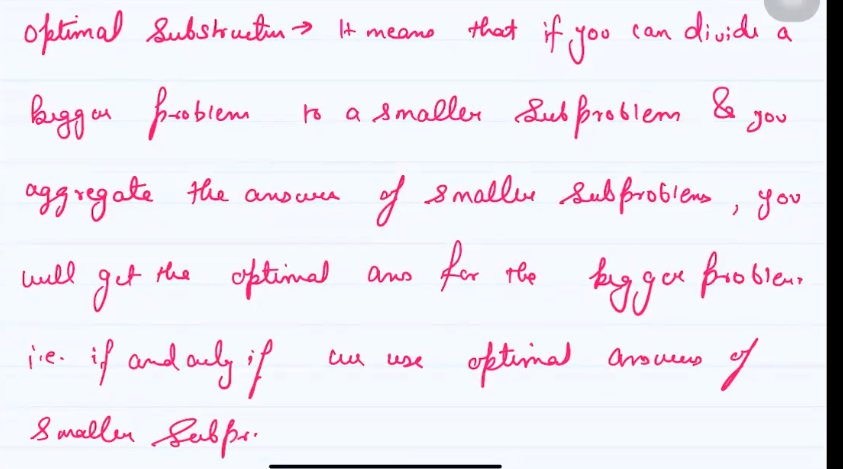
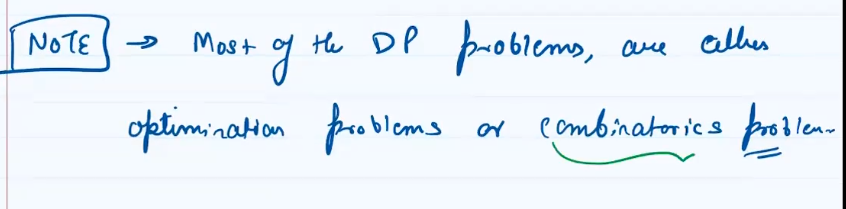
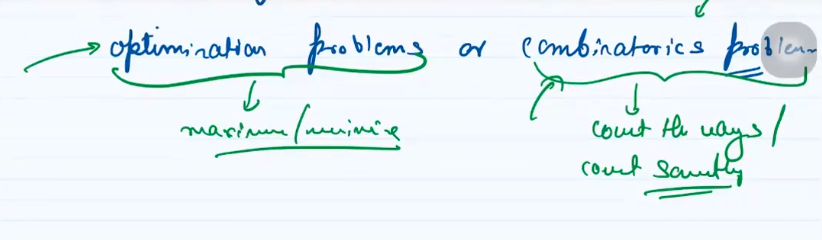
DYNAMIC PROGRAMMING 1

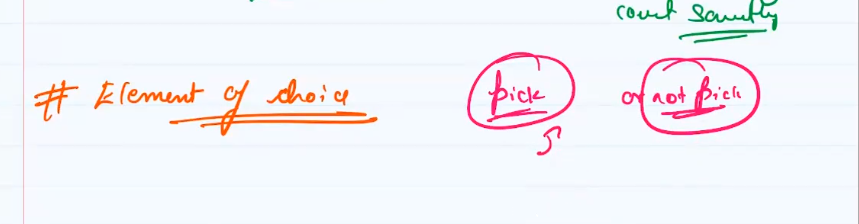


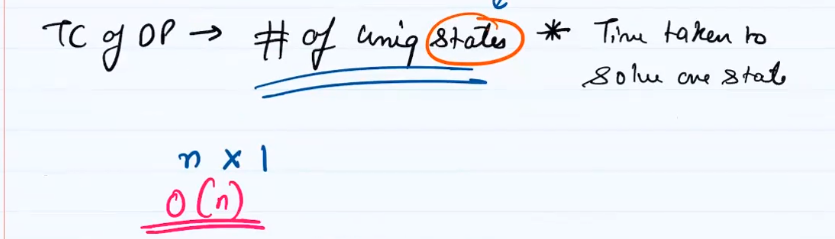








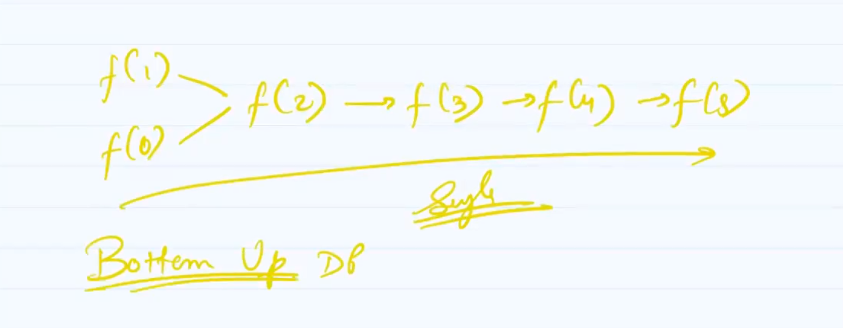






Top down generally recursive in Nature

Bottom up is generally iterative in Nature.







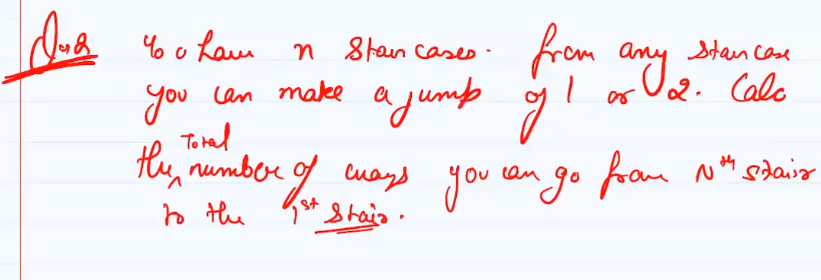
We can maintain a 2 element array and swap the number

WE can not do top down solution in constant space

1:14

Question 1 : Stair case problem

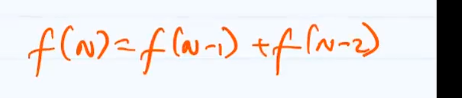
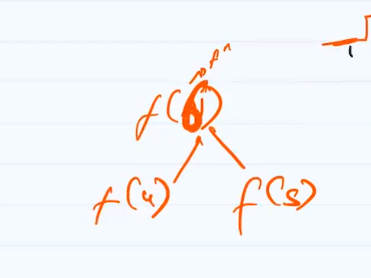
https://leetcode.com/problems/climbing-stairs/description/



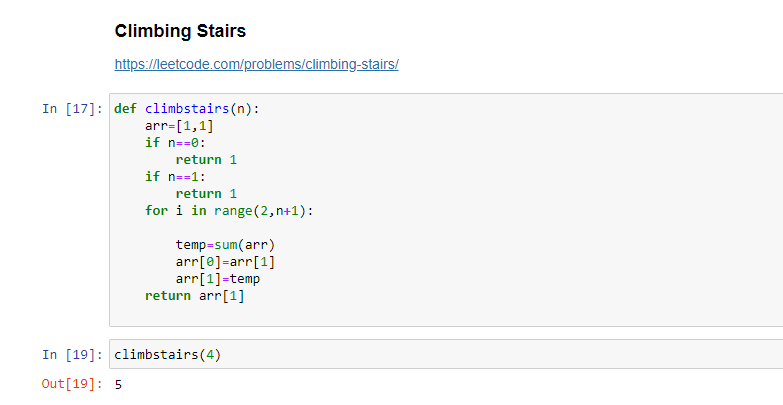


Problem is same to from 1st staircase to Nth stair case

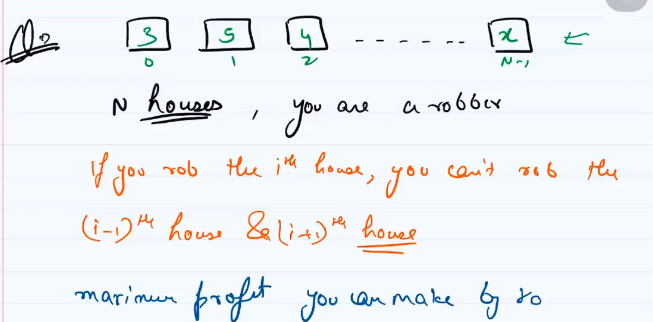
If I know how many ways I can go from 4th stair case to 1st and how many ways I can go from 5th staircase to 1st stair case then I can generate how many ways I can go from 6th staircase to 1st stair case



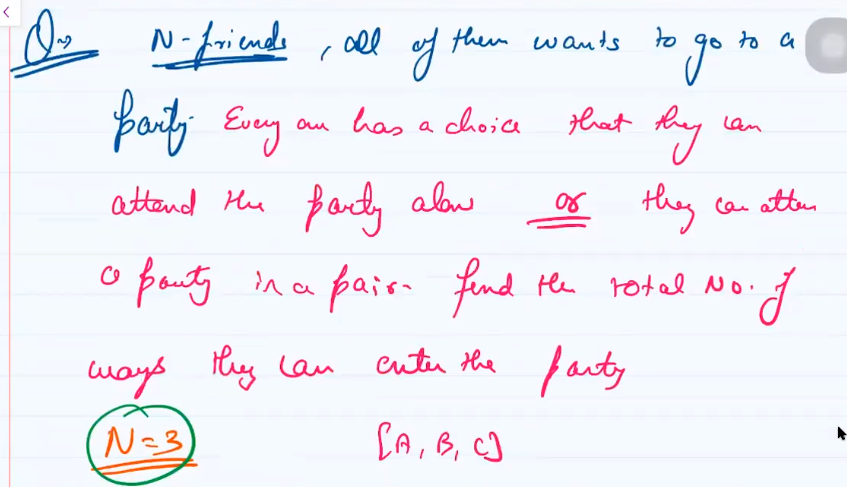




1:25

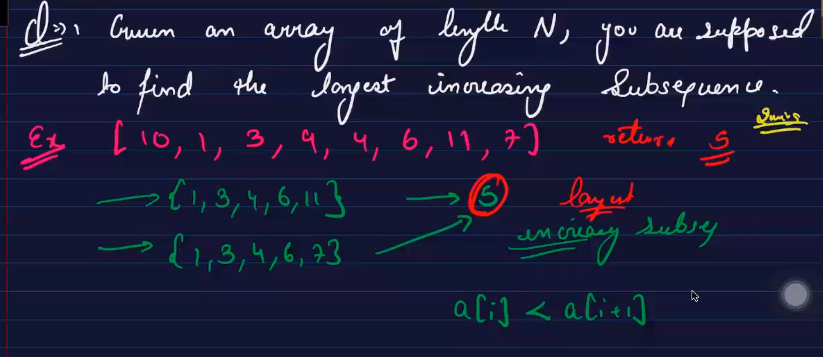


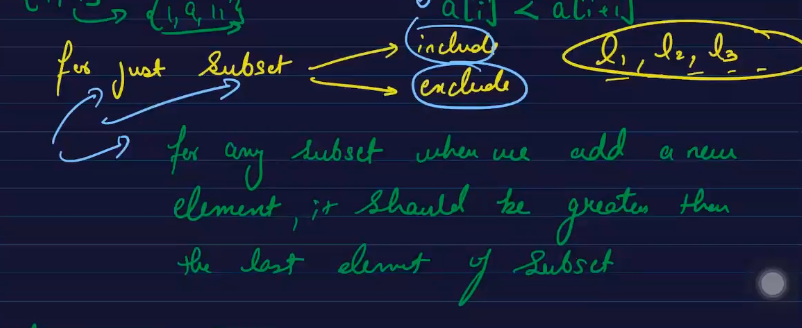


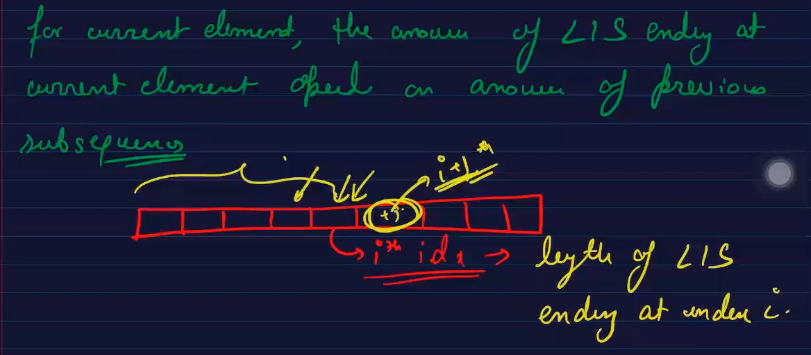


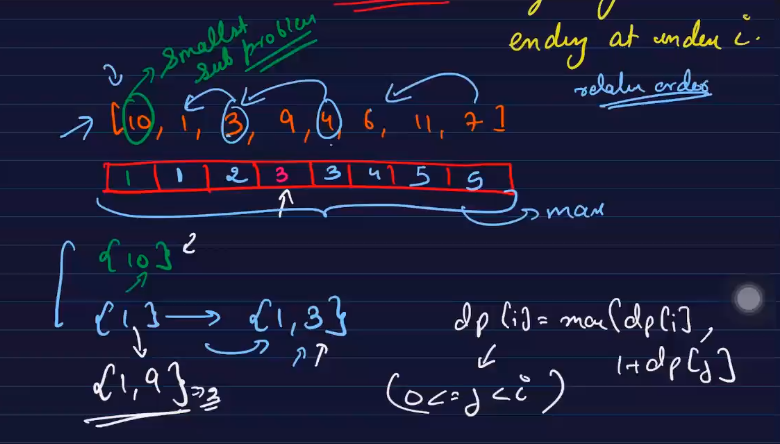
DYNAMIC PROGRAMMING 2

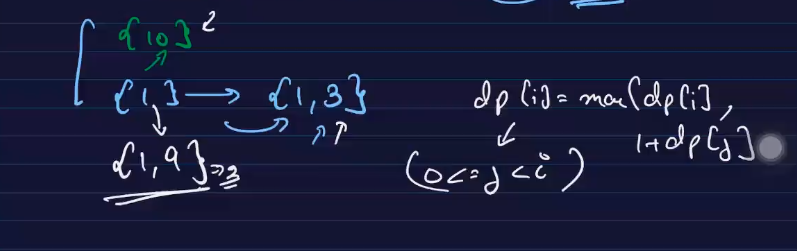
Find the longest increasing subsequence

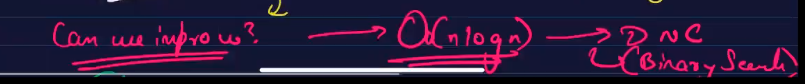






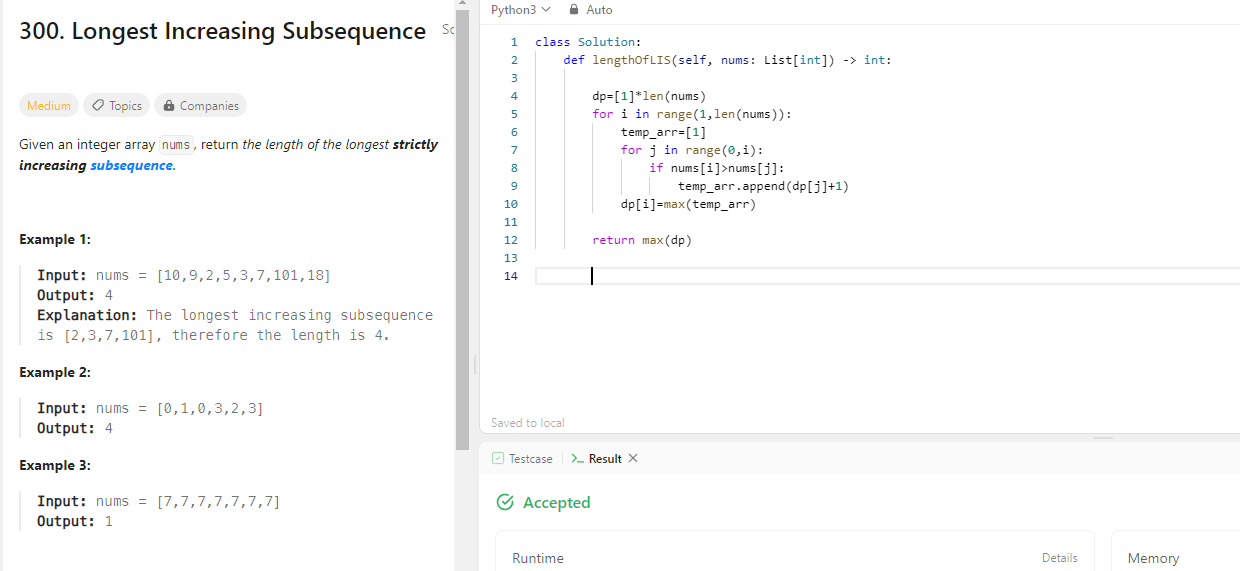


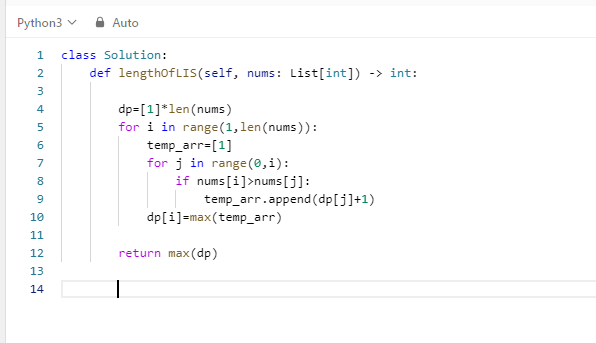




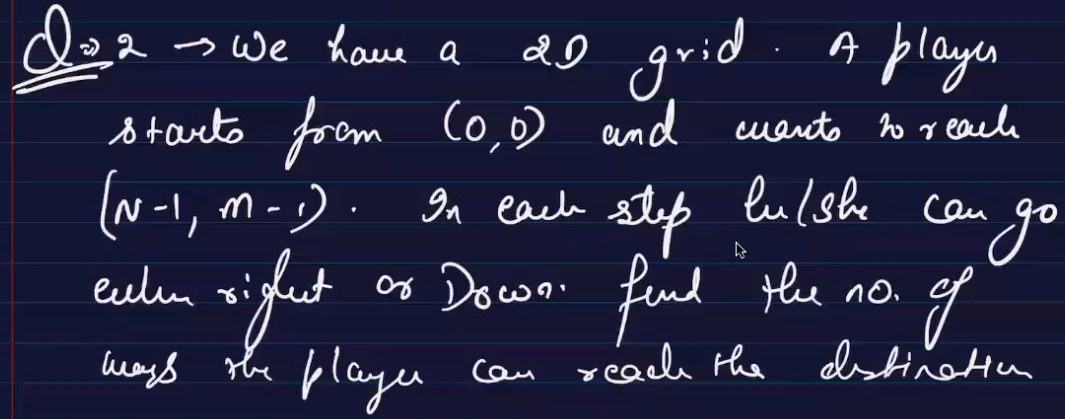
Home work how can you print the solution as well

<https://leetcode.com/problems/longest-increasing-subsequence/description/>

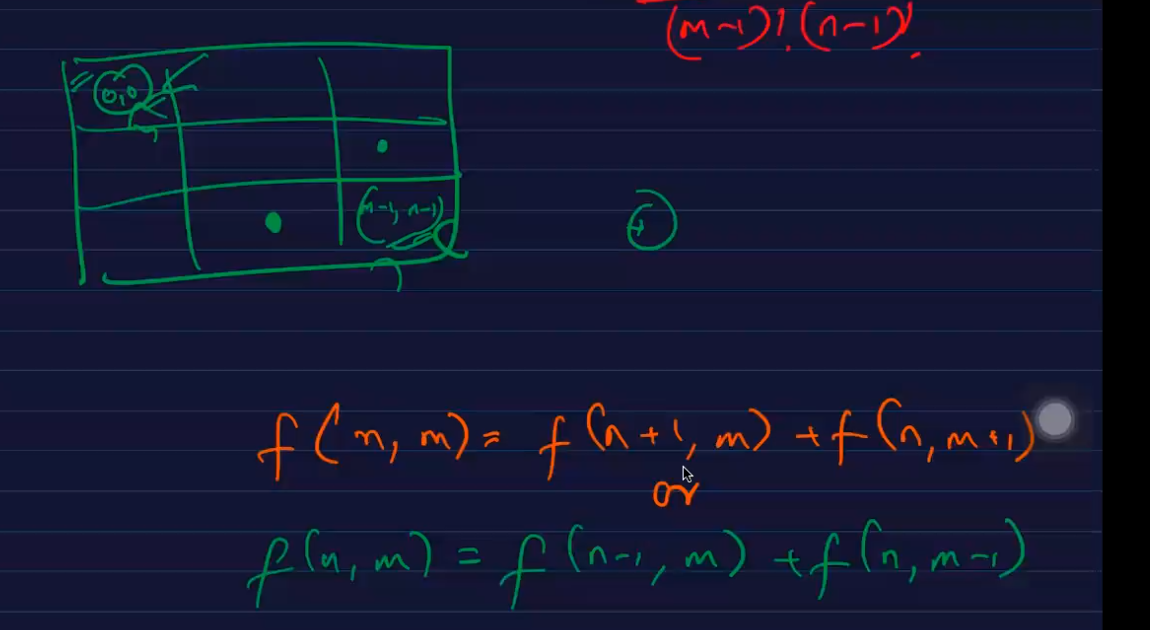


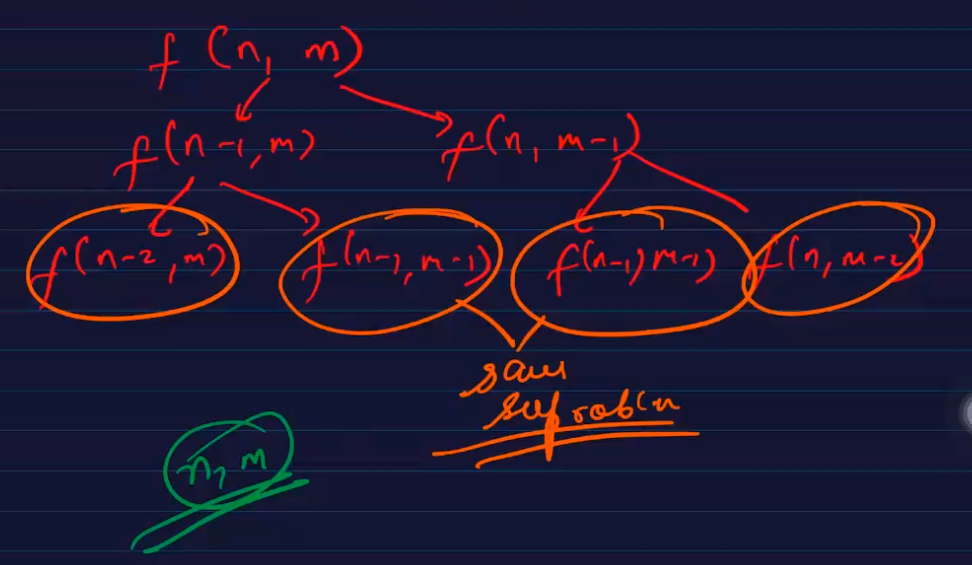


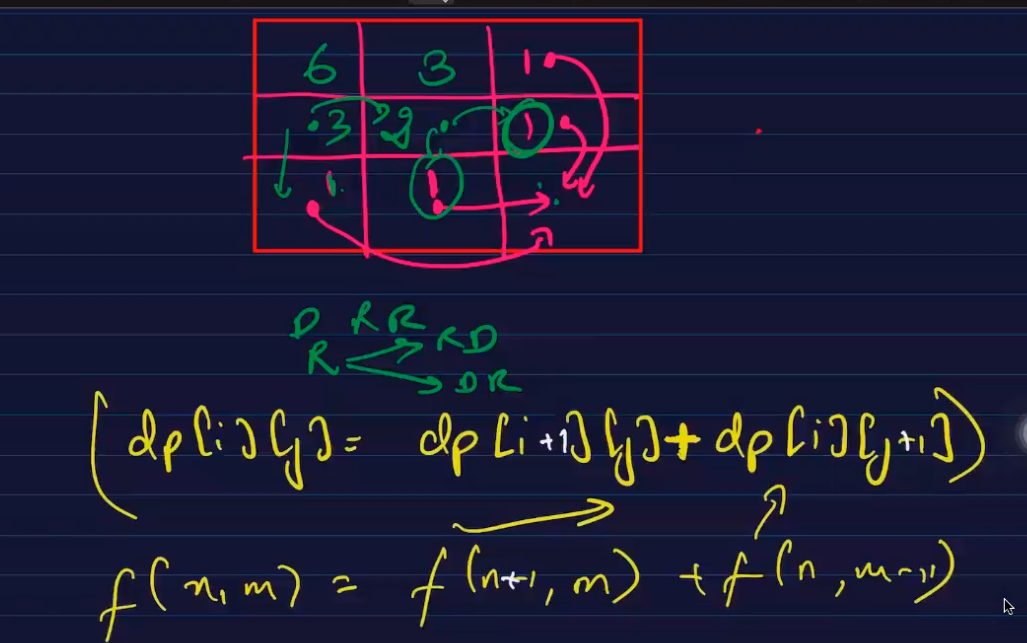
50:00

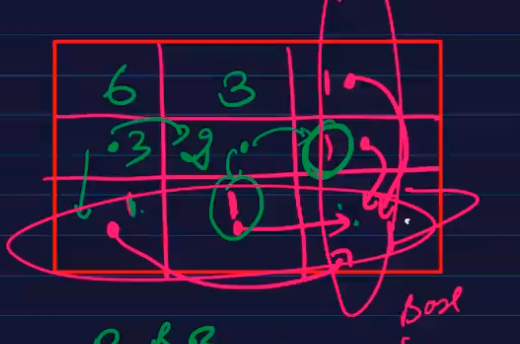


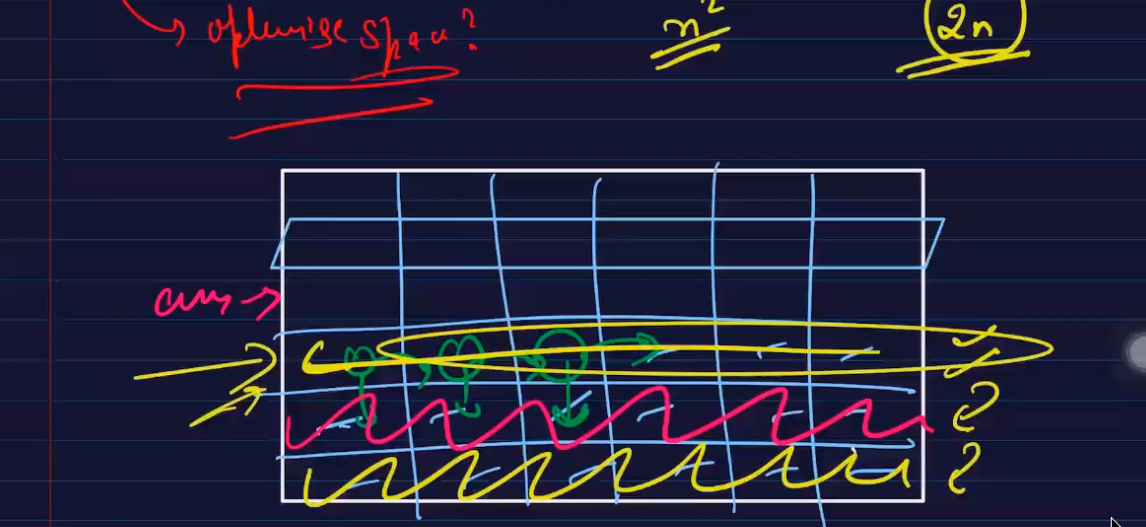




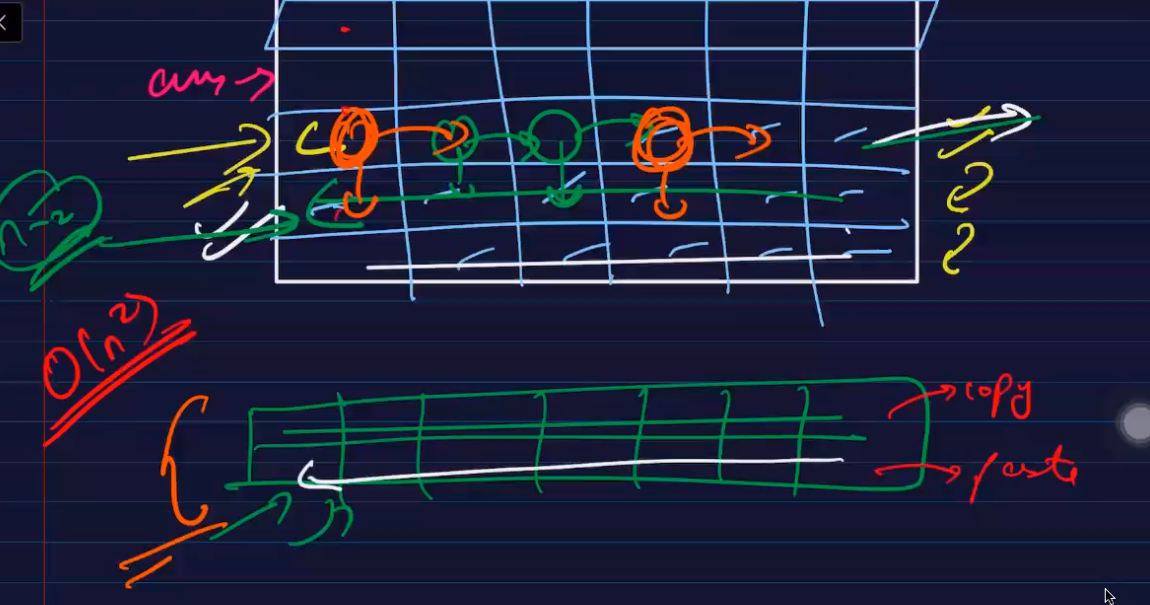








Instead of maintaining the n^2 array .You can maintain 2n array



Leetcode ; <https://leetcode.com/problems/unique-paths/>

