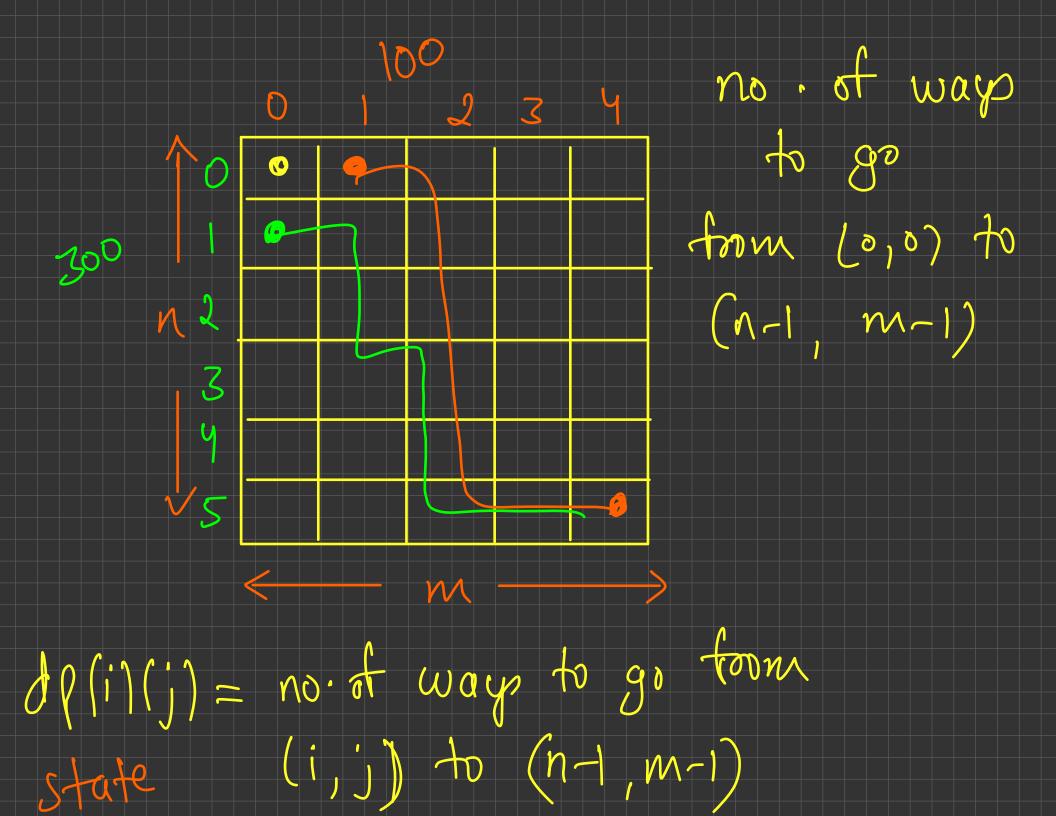


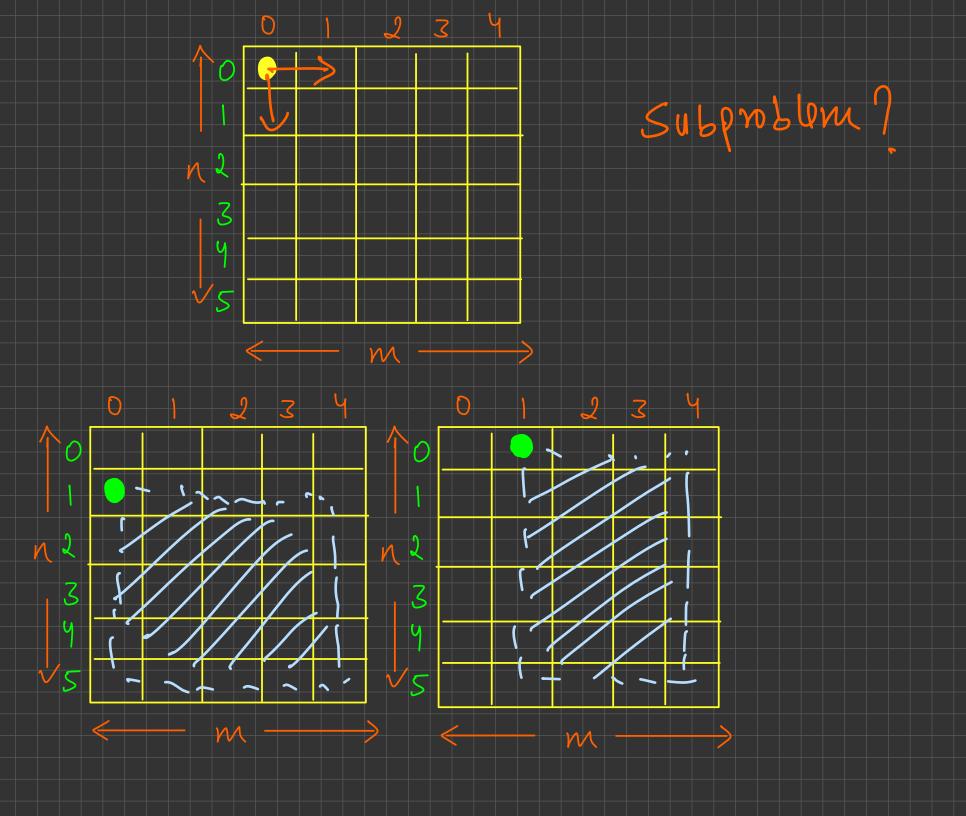
State

$$d \rho(i)(j) = min \quad sum \quad path \quad tom$$
 $d \rho(i)(j) = min \quad sum \quad path \quad tom$
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 $d \rho(i)(j) = min \quad sum \quad path \quad tom$

1/ ave Care $d\rho(n-1)(m-1) = grid(n-1)(m-1)$ Pinal subproblem dp(0)(0) = min sum path from (0,0) to (n-1,m-1)



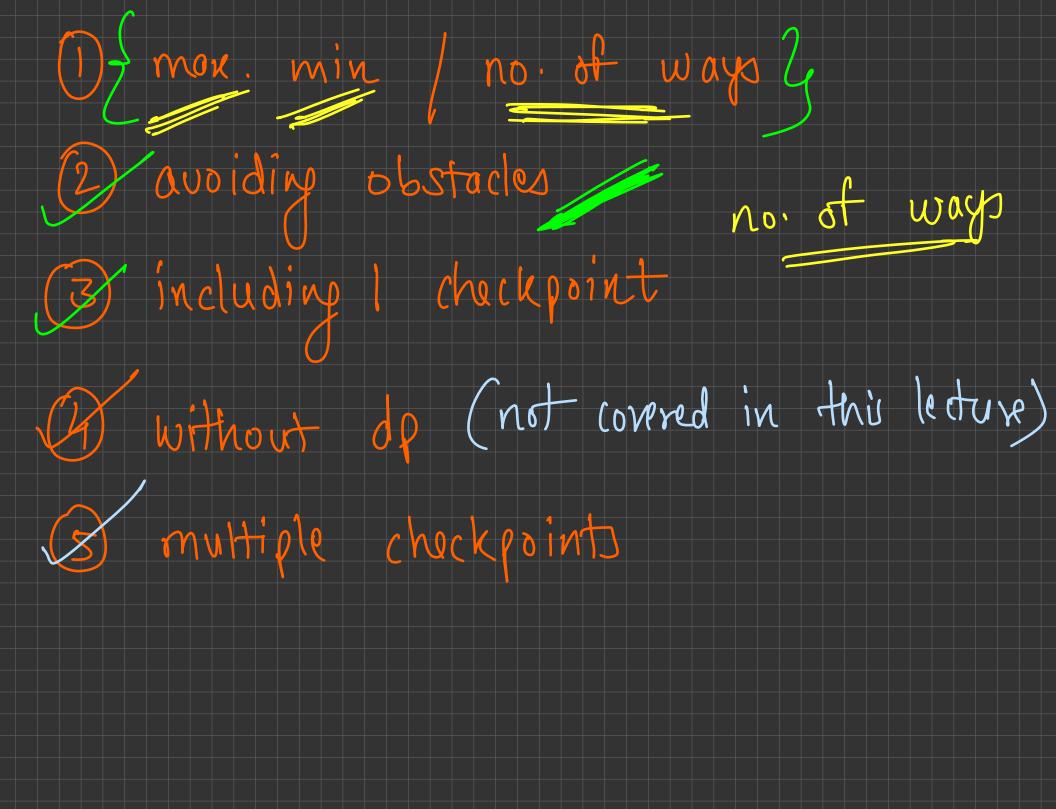
de (i+1)(j) + de (i)(j+1) transition $d\rho(n-1)(m-1) = 1$ Bar Case Final Subtroban! d [0) [0]

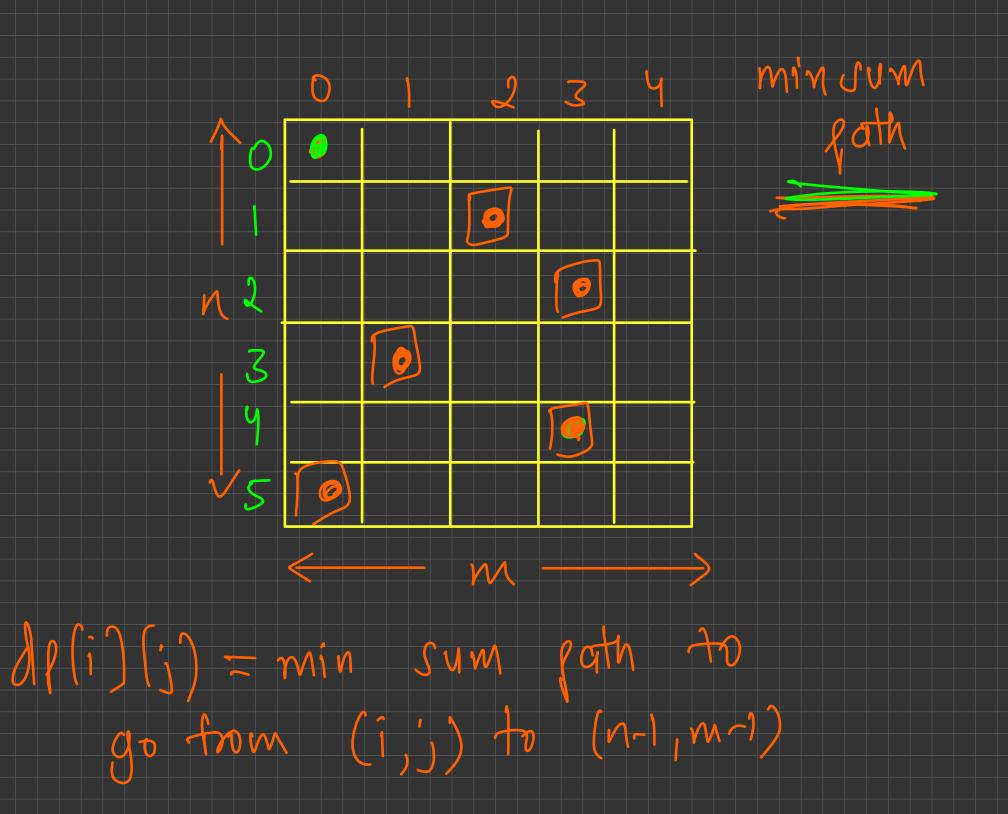


path from (0,0) to (n-1, m-1) dp(i)(i) = min sum path from (o,o) to (i,j)

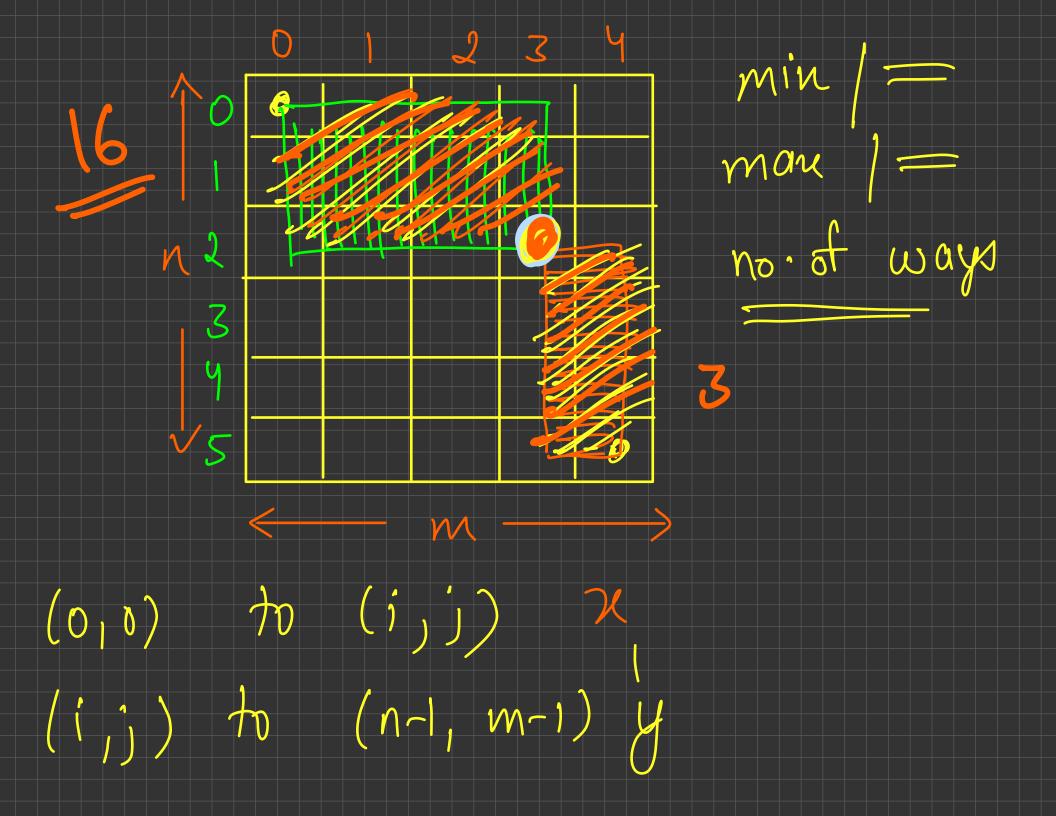
$$deli)(j) = min \int deli-1)(j) + gnid(i)(j)$$
Save case: $deliological deliological d$

Final Jubproblem: 27 (n-1) (m-1)



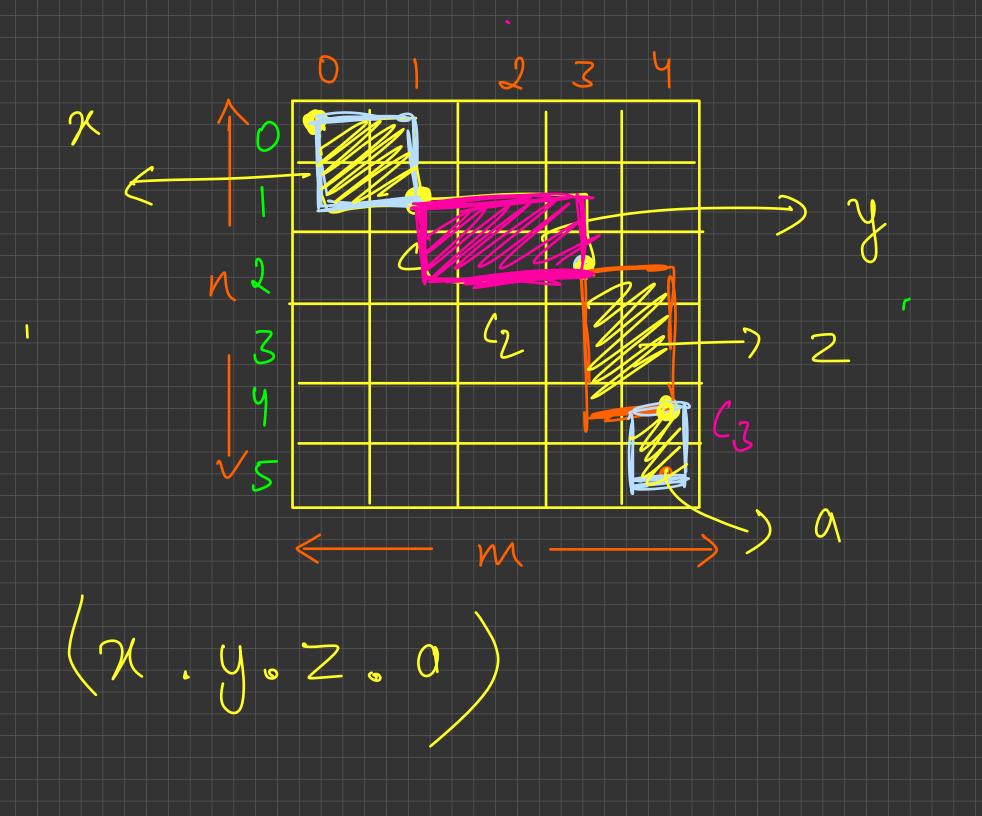


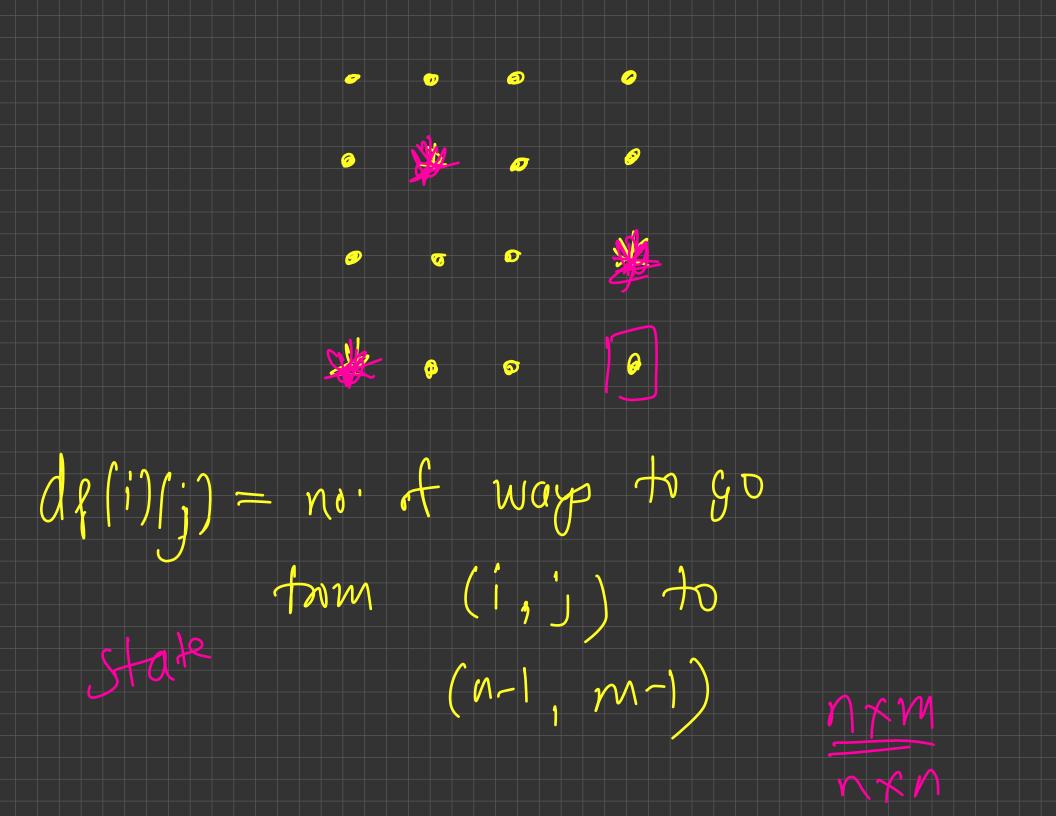
 $\frac{de(i)(j) = inf(i,j)}{de(i,j)} = is on$



and for (i,j) = x + y - grid(i))dellissis = min sum path from

(0,0) to (i,j) dp2 (i) (j) = min sum path trom (i,j) (n-1,m-1)Final ans = dp1(ci)(cj)+dp2(ci)(cj) — grid (c;)(c;)





 $d_{r}(i)_{j} = d_{r}(i+1)_{j} + d_{r}(i)_{j}$ $\theta \rho (n-1)(n-1) = 1000$ Base case) O Osstorle O(0)(0)(0)complexity: o(n2) complexity: o(n2) Space

