Que. : Unique	Paths
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(1) why apply recupsion?

BCZ we have to try oill prossible ways to get answer so only seews we use recursion.

(2) How to write Recurance relection?

=) (i) Express in team of index here to is a 2D matrix so express in (i j)

(ii) Explose Do all stuffs on funt avid.

(iii) If Question is conth ways -> sym up 911 Max -) max (all the state

- Min -) Min (all the stuff

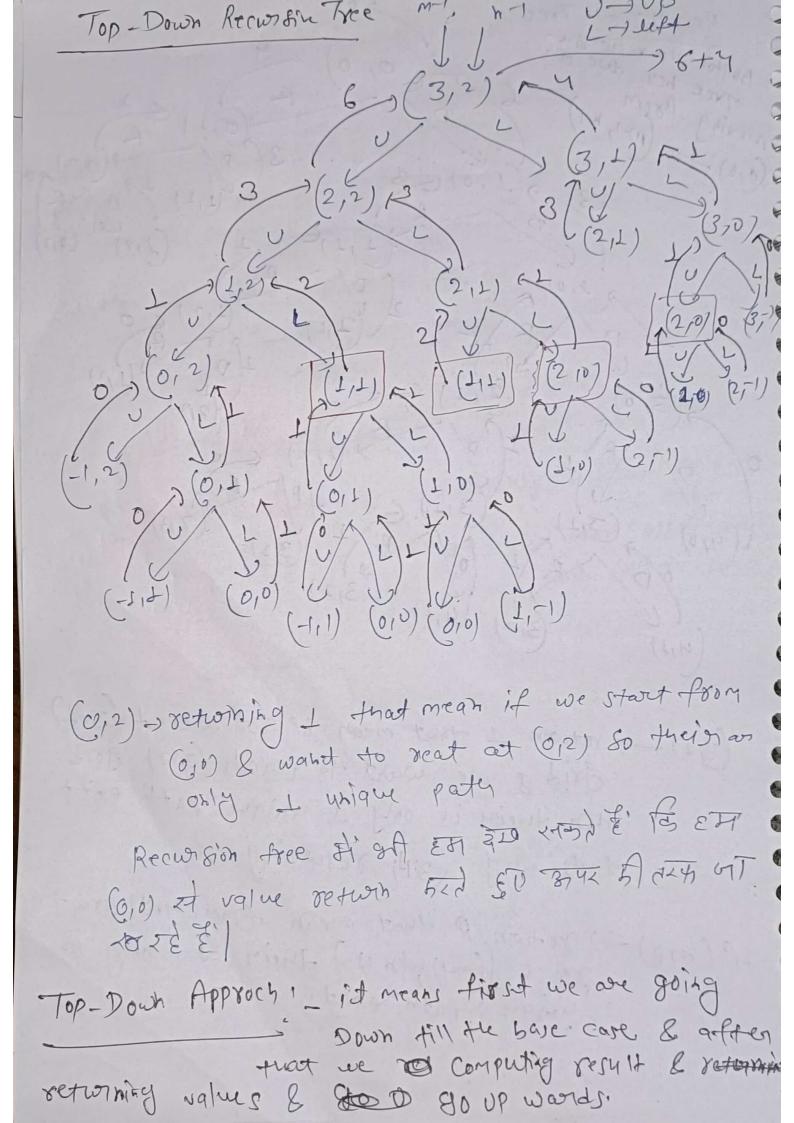
Take an example

m=4, n=3

20 Corid / 20 matrix

0	T	2
o 1 Stort		
(0,0)	(0,1)	(012)
1 (1,0)	(1,2)	(1,2)
	6 . 1	(2/2)
2 (2,0)	(312)	Destination
2		(312)
(4210)	311)	
1		

Recwisive Tree Dottom up recursive f(0,0) ~ y 3(2,0)63 3(0,2) (0,2) moving form (0,0) to (m-1, h-1) \$ 1,1) E (2,1) (2,1) CZ (2n) (2n) (311) (311) (312) (312) (312) (312) (411) (312) (411) (411) (411) (411) (411)- return I that mean if we are set (3+1) grid & we want to reach (312) grid ten their is only I unique path exist that's way (314) returning -Jeturn P that mean from (218) grit to reach ((M-1), (h-1)) their are only P unique path exist.



In Recursive Tree we can saw that their are multiple overlaping subproblems so we can apply Dynamic programming.

(1) first Decide tre Dota Structure.

So in order to apply DP first we have to use DP datastry cture i.e. what we ground use like 10 array, 20 wordy, map or something else.

=) HET EST ID wongy use of 57 HAND be ID away THE USE HANDE ETAT ET ALLIES 327 I Venaible change etat et allies 327 I venaible of Flant values of corruption ling and of EH ID coinay of shore of Hospital

But how over two veraibles men are changing simultaneously so we have to use changing so we can store the ans corresponding to (m, m) in this 2D coorage

2) Decide the Size of the dater stouctur.

20 00189 1900 (0l

yours ofom & cod= ofon

DP[m][m]

