Que 6 – Minimum ~~Maximum~~ Falling Path Sum

Que. 1 Why ~~are~~ we not applying Greedy?

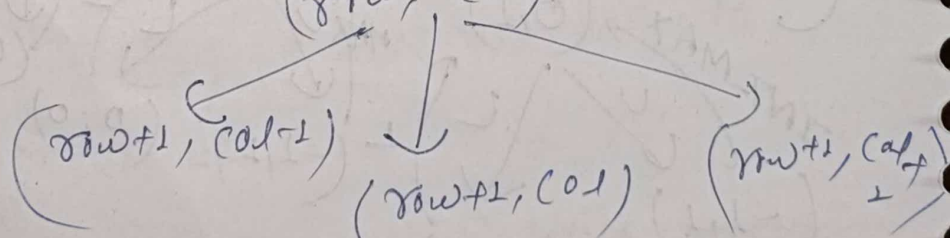
⇒ Bcz the law of uniformity. i.e, in Greedy approch we missed out some overall optimal answer geting subproblems.

Que. 2 Why are we apply recursion?

⇒ Bcz we have to try all the possible ways.

step 1: Represent in the term of index

step 2: Try/Do all stuffs on that index i.e. (row, col)



Step 3: If question ask get max/min then take max/min of all stuff

max((row+1, col-1), (row+1, col), (row+1, col+1))

Recursive Tree :-

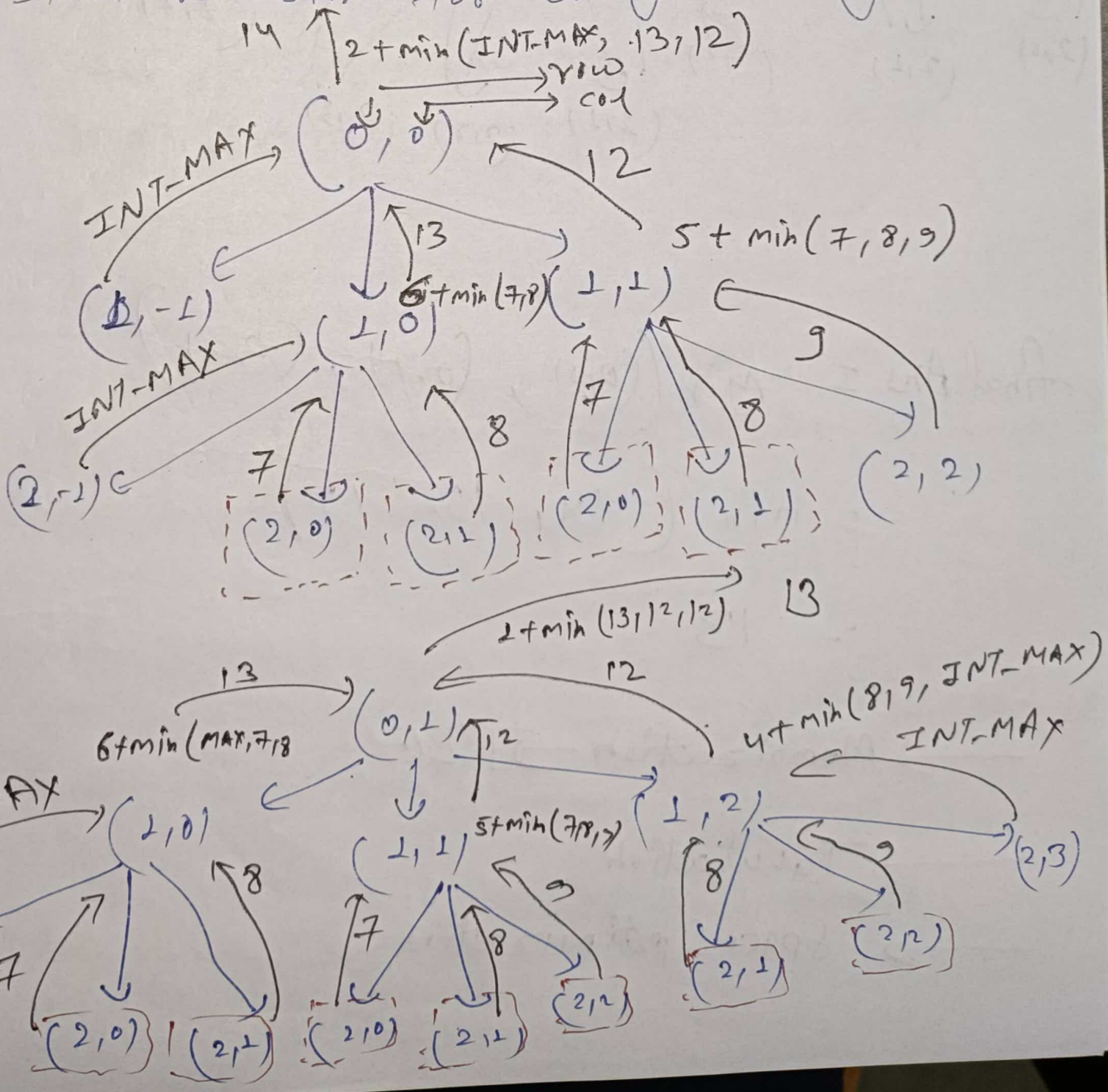
Recursive Tree is always Top-Down Bcz from top we go down.

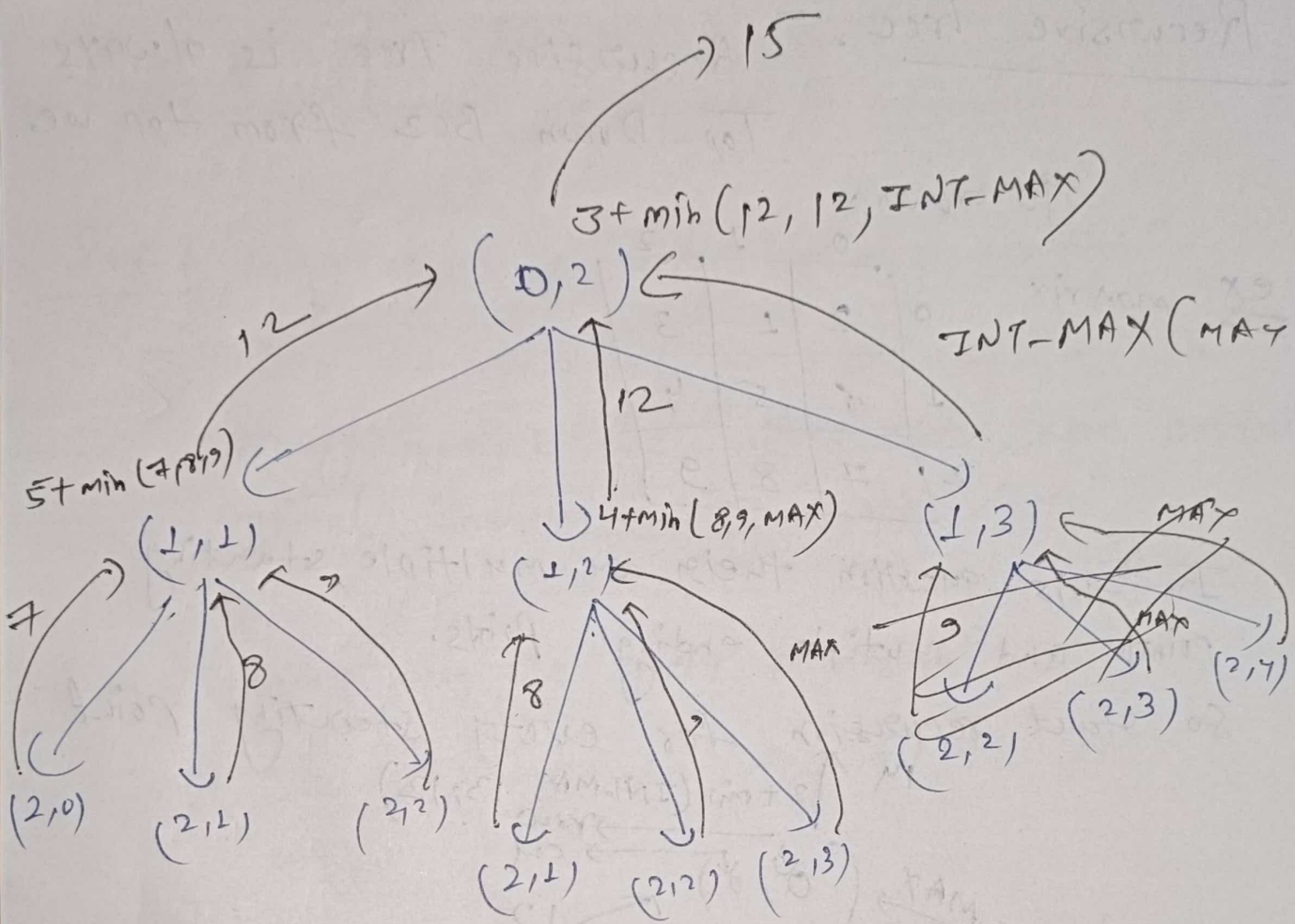
ex matrix

	0	1	2
0	2	1	3
1	6	5	4
2	7	8	9

In this question their are multiple starting points and multiple ending points.

So start recursion for every starting point





finalAns = min((0,0), (0,1), (0,2))

= min(14, 13, 15)

= 13

→ Memoization → TLE

→ Tabulation

→ Space Optimization