Let's start at 9:02 PM

L65

Dynamic Programming: Mixed Problems 1

Join Discord - https://bit.ly/ly-discord

RECAP



Let's dive right into it

 Make the Fence Great Again

$$N^{2}$$
 3
 A^{2} $[2, 2, 3]$ \Rightarrow $[3, 2, 3]$
 B^{2} $[4, 1, 5]$ 4





Intuition Sai, aits, aits}



5 5 5 = 5 65 5 5 6 2) 5 7 6 6 5 7 7 6 5 7 9 5 8



ali] \Rightarrow 0 cost

ali] +1 \Rightarrow 1×b[i] cost

ali] +2 \Rightarrow 2 × b[i] cost

apli) = aus for a (i--- n-1) dþ[i][j] => ans for a [i - - - n-1]

0/1/2 given a [i] is going to be incremented

exactly j jimes.



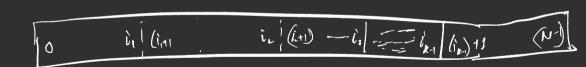
curlest = j + bli) f(i,j)future lost ~ f(i+1,0) = ali+1] // ali] +j
(0/2/2) (i+1,1) > a (i+1)+1 () f(i+1,2) = o(i+1]+2



Solution

Let's implement

2. Beautiful Partitioning





pre[i,] > 0fre[i2] > fre[i] pre[is] > pre[is] pre[ix-1] > pre[iz-s] pre [N-1] > prelied

U LearnYard

0 < [pre [i] < pre [i] -- -- pre[i] < pre[N-]

2) All preli] values are positive.
2) All preli] values should be less than pre[N-1]

3.) They should form an increasing subsequence (K-1)

Intuition _ - bre(N-2], bre(N-1]

fre [o], fre[i], __ vector cint > V; for (int 1 = 0; 1= n; ++i) pro(i] < pre(N-))

The (int 1 = 0; 1= n; ++i)

The (int 1 = if (L15(v) = K-1) 455

else NO;

LearnYard

Solution



Let's implement



Thank You!

Reminder: Going to the gym & observing the trainer work out can help you know the right technique, but you'll muscle up only if you lift some weights yourself.

So, PRACTICE, PRACTICE!

