Bonus - 7 Final Problem Solving

The last one:/

RECAP



Let's get started!

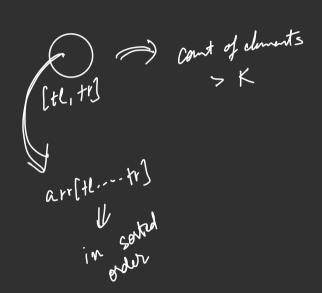


1. K-Query

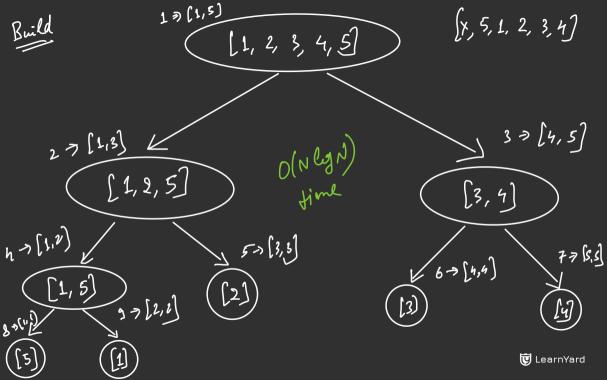
(KQUERY)

 (ℓ, r) (1,r) ali) ok a L Prefix Sum

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any log. N = log. N



Signent Tree (Merze Sort)

Binary Search

Let's implement

2. Subsequences

$$Nz = 5, Kz = 3$$

$$\begin{bmatrix} 1, 2, 3, 5, 4 \end{bmatrix}$$

Intuition / Solution

dp[i][l] >> No. of increasing subsequences of largth l s.t. the lost element is a[i]

ans = of [3][x]+ of [2](x) ---- + of [n][x]



$$\begin{array}{c} \text{ali} \\ \text{deli][l] = 0} \\ \text{if unite over all } \vec{j} \text{ s.t. } \vec{j} < i \text{ b.d. } \text{ali}] < a \text{ li}]: \\ \text{deli][l] + = deli][l-1] \end{array}$$



(i, e)

From the lift, I need sum of dp[i][l-i] velous for all such judices j s.t. a[j] < vel.

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N= 5, K=3

121 [1, 1, 1, 1, 1]

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!

