Todayis Content

- Prefix Som

- Problems on pre fix Som

D Left Max, Right Max

- D Woder accumulated

- Max Suborray Problem

 $\frac{1}{\text{H}} \quad P_{0}^{\dagger} \left[i \right] = x$ $\int_{0}^{\infty} 0^{-1} i^{-1} dt$

Parlix Sum ?

P([7:

Q,

Observation

Q

S

e

val

$$\begin{bmatrix}
3, 6
\end{bmatrix}$$
 $\begin{bmatrix}
7, 6
\end{bmatrix}$
 $\begin{bmatrix}
7, 6
\end{bmatrix}$

Step 1: asy $\begin{bmatrix}
8, 6
\end{bmatrix}$

asy $\begin{bmatrix}
8, 6
\end{bmatrix}$
 $\begin{bmatrix}
8, 6
\end{bmatrix}$
 $\begin{bmatrix}
7, 6
\end{bmatrix}$

Pseudo Code

while
$$(0>0)$$
 d

11 s, e, val

 $arr [s] + s vol;$
 $ij (c! = (b-1))$ d

 $arr [c+1] - s vol;$
 3
 $0 - - i$
 $231 - 3 - 3 + 3$
 $0 - 2 - 6 - 6 - 3 - 9 - 9$
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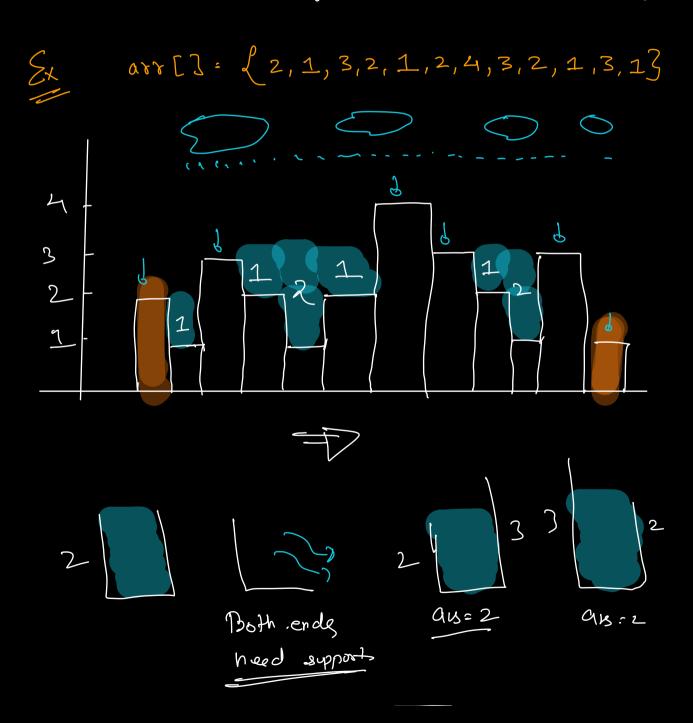
[0,1]

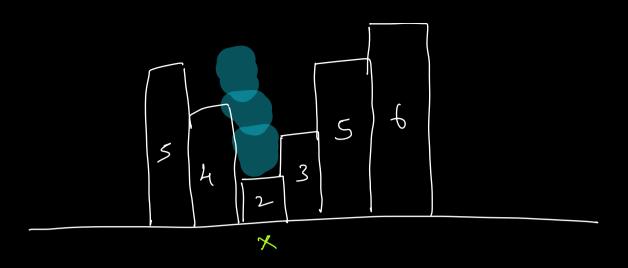
Q3 Find Pfm [i] = max of all Elemente from [0,i] $0.1 \quad 2.3 \quad 4.$ $0.1 \quad 2.3 \quad 4.$ $0.1 \quad 2.3 \quad 4.$ Tc: 0(n) lest o 1 2 3 4 mars Plm = [-5 1 2 3 3] ToDo Q4 Find SJm [i] = max of all Elements from [i, n-i] 0 1 2 3 4 ara = [-5, 1, 2, 3, 2] [3,4] S(m= [33332] RyhAMan TC:0(n)

(25) Rain water trapped

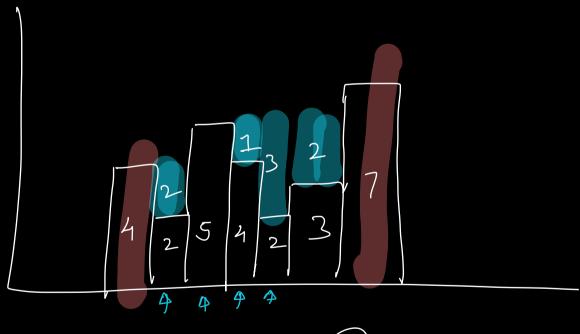
Given N arroy clements, where arr [i] represents height of the building.

Paetvon the amount of water teapped between building.





min Llefilmar, dighilmar 3 - height





Parudo Code // left_max G(n) 11 dight - max o(n) TC: O(n) Sc: 0(n) int are =0 for (int i=1; i~(n-1); i+1) 2 int support => min (left-mex [i-1] right-max [iti] int water => Suppost - ass[i]; (0<00) ars += weder;

return ars;

10:47

(36) Given N array Elements, Calculate Maximum Subarray Sum.

 \mathcal{E}_{X} arril = $\left\{-1, 4, 2, 8, -2, 3\right\}$ are = 15

Approach 1: TC: O(n3)

1 pprooch 2 : T(: 0 (n2)

Osiner Orthe Sum

: All element >0 Scenario 1 14 | 5 (b) => Scenario 2: All element < 0 Scenarios Max Subassay SUM Scenario 4 11 3-2 If sum 70, then carry sum

$$S = 0$$
 $a_{1} = I_{1} \times I_{1} \times I_{1} \times I_{2} \times I_{3} \times I_{4} \times I_{4} \times I_{5} \times I_{$

redusin are;

TODO

- 1) (an we find the indices of max Subarray.
- 2) Can you handle edge case in a different way.