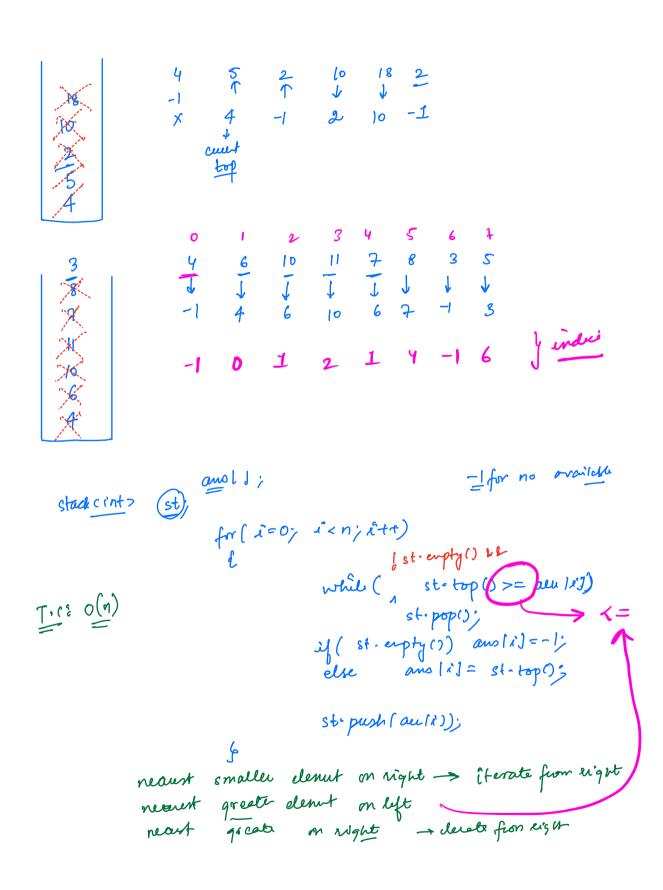
· Nearest Smaller Element

For every index i , Find the nearest element on left which is smaller than aer [i].

for every index i, travese from i-1→0
until you get a smaller cleu the au[4].

T.C: 0(n2)



for (i=0; i<n; i+t)

l st.enpty() bb

while (am lst-top()) = alu 1i])

st.pop();

if (st.enpty()) and [i]=-1; ans(1)=n;

else and [i]=st-top();

st.push(aysh);

 $e^{n^2 + n} = 0 \binom{n^2}{n^2}$

 $\leq \max_{s} = \sum_{i=0}^{n} \operatorname{court} \hat{n} \operatorname{how} \operatorname{many} \operatorname{auli} + \operatorname{auli}$ $\leq \max_{s} = \sum_{i=0}^{n} \operatorname{court} \hat{n} \operatorname{how} \operatorname{many} \operatorname{auli} + \operatorname{auli}$

$$\begin{bmatrix}
 2 & 13 & 8 & 5 & 4 & 7 \\
 2 & 13 & 8 & 5 & 4 & 7
 \end{bmatrix}$$

$$\begin{bmatrix}
 2 & 13 & 8 & 5 & 4 & 7
 \end{bmatrix}$$

$$\begin{bmatrix}
 1 & 1 & 1 & 1 \\
 2 & 7 & 5 & 1
 \end{bmatrix}$$

$$\begin{bmatrix}
 2 & 1 & 2 & 2 & 2 & 1 \\
 2 & 7 & 5 & 1 & 2 & 2 & 2 & 2 & 1
 \end{bmatrix}$$

nearest rapas

contribut of it elevet = (i-j) * (k-i) * auli)

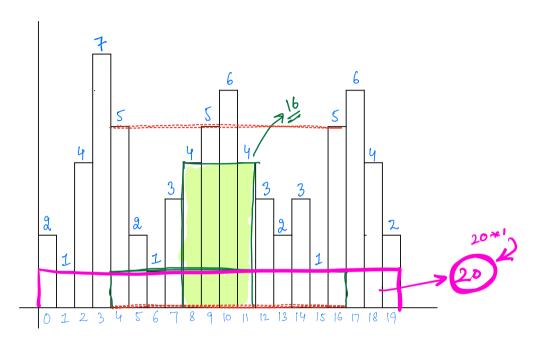
neaux layest inder

neaux layest inder

neaux layest inder

Il Bûld meant smaller ange for left keight ℓ and neart layer aways for left keight ℓ and ℓ and

tistogran - Eind the largest rectaja formed by continuojoces nistogran barso.



go to each bas -> fixing the height

afte of bar -> nearest small on left = l
nearest small on right = l

(1-l-1) * au [i]

max

 $\frac{8 + 5 + 4}{40 + 4 = 44}$ $\frac{1}{40} = 44$ operand op operand

0

precendence

operators

*,/

- LR associativity

Some precendence

calculate from

L to R

infix notation don't have order of

A+B execution of operative

operand operan op

AB+

Here operators in

$$\begin{array}{ccc}
\bullet & A + B \times C & \Rightarrow & ABC * + \\
& BC \times
\end{array}$$

$$\frac{(10+3) + 2 - (7-6) + (4+8)}{103+ 2 - 76- + 48+}$$

$$103+ 2 + - 76- 48+ 7$$

