Stacks => LIFO (Last on first Out) Redo Undo loop () { mulph Socially Recursion => Stacks Stack Operations 1) Push = Insert on Jop => 0(1) 2) Pop \Rightarrow Remove from top \Rightarrow O(1)3) Peck/Top >> Return top eliment / stack. while () 4) Is Empty() => Booken => Tone if

Stack is empty.

Given a string Remore all duplicate adjacent Characters from the given string. 1P => " a = 2000 = " a 2/2 y" 0/P -> ay → We can only sense pairs. aznazy = aznzy (1) Brute frace $S \Rightarrow \frac{az \times x^2y}{\sqrt{2}}$ a z z y N-2

a y N-4 (2) (3) (9) pallah

 $T.C. = O(n^2) \qquad (N)(N) = o(n^2)$)]()) } 9/1 T.c. = O(N)S.C. = 0 (N)

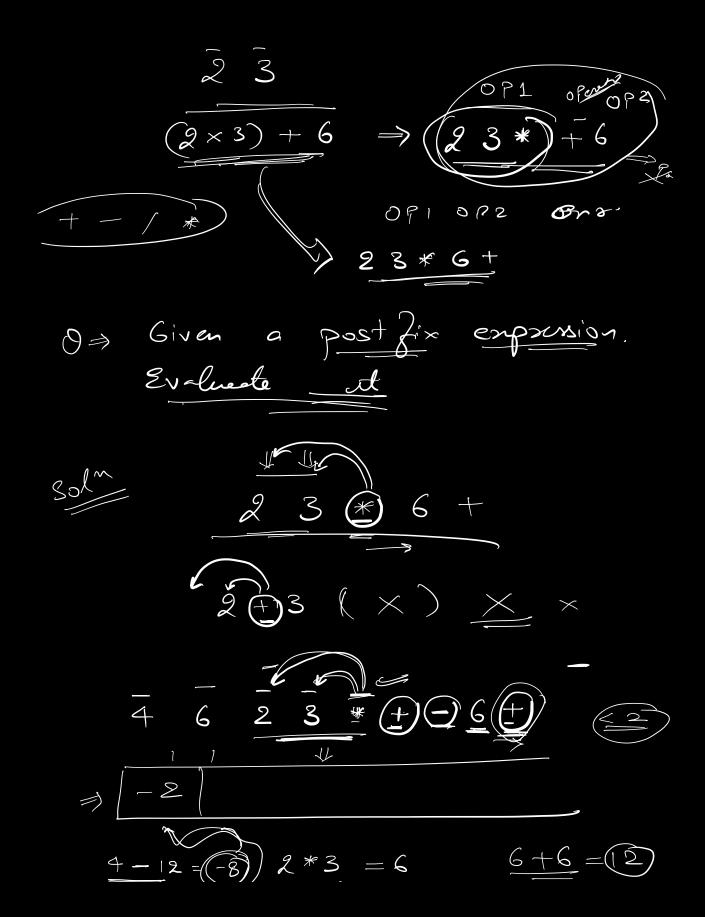
0-2

Evaluete an expression

operation

Operation

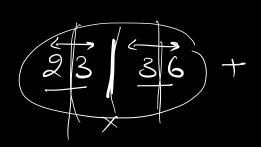
Operation

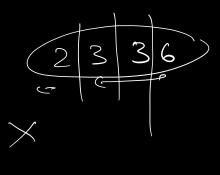


$$-8+6$$
 2 3 - $=-2$

$$\frac{4623*+-6+}{(4-(6+(2×3)))+6}$$

$$S \cdot C = O(N)$$





" 2 3 * "

$$M = (SC) = = (*) = (*) = (*) = (*)$$

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Necrest Smaller Element

Given on 1/P array.

for every element of the array,

find the nevert smaller element

to the left.

NSE => -1 4 4 -1 2

Solv

1) Brute force

for each element, travel to words

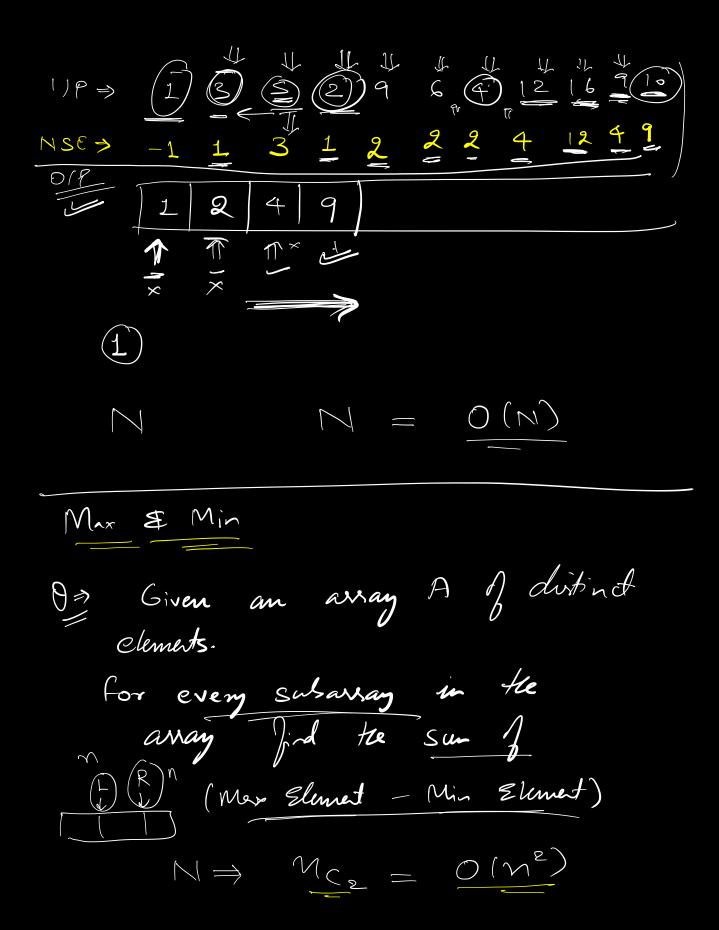
the left & find fle 1st element

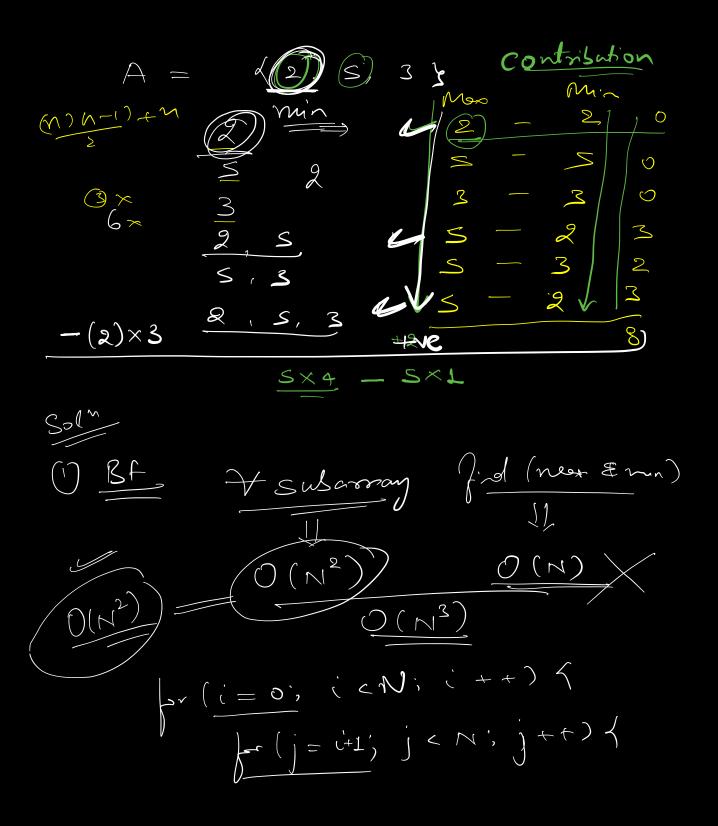
smeller than the convex element

T.C. = O(n2)

2) Observations

Observations





2) Contribution

Helenets, calculate contrisction 5 10 22 0

