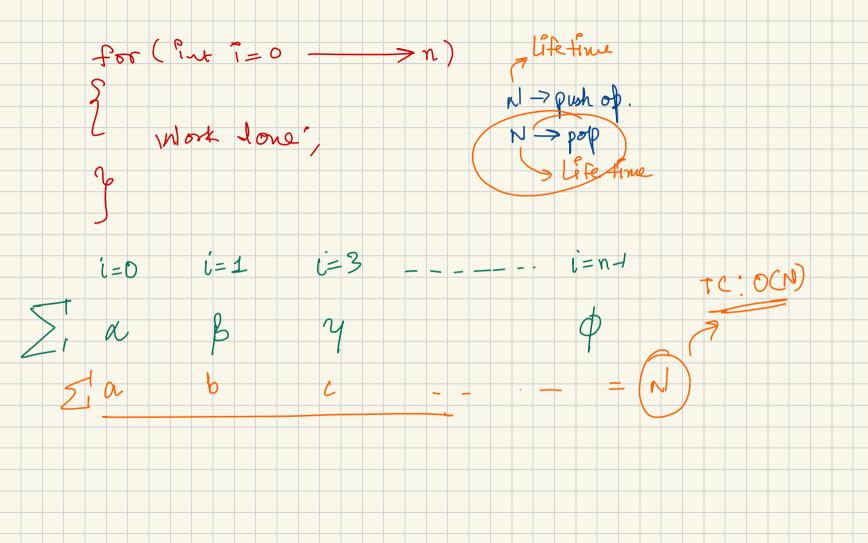


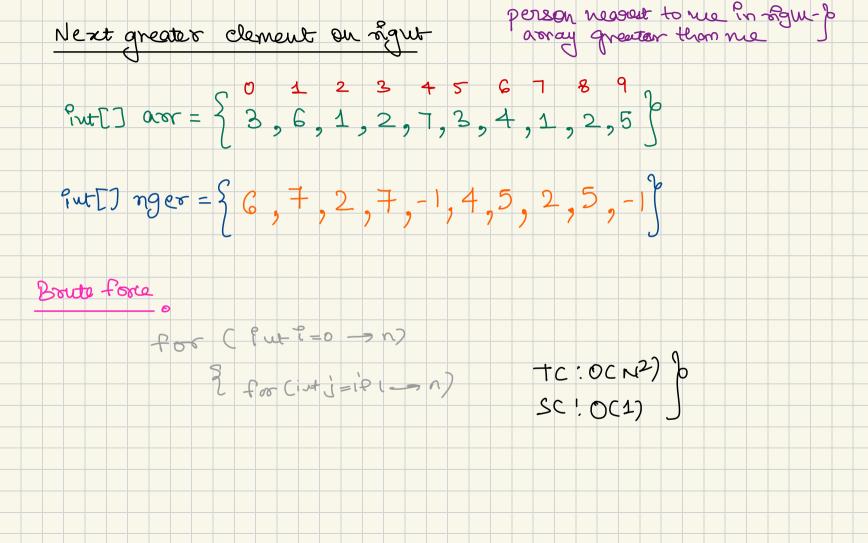
Stacks	
o unear data structure	
· LIFD ELaston, first out f	
poels () - pop()	
Push C	Agenda:
	(i) Extra Bracket
size()	2) Next greater dament on Regut
	3) Stock Span
	_ (4) Largest lustogram area
Stack	

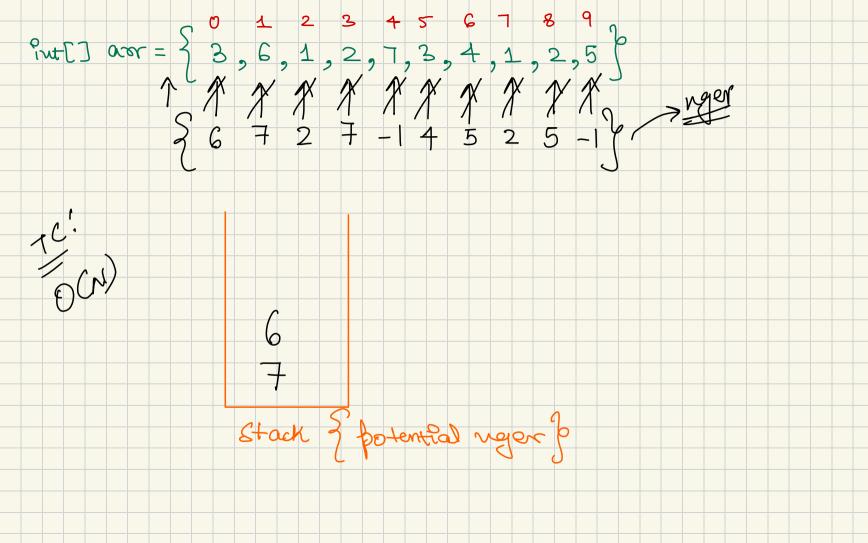
NOTE & Bracket Doirs Extra Brackets T(:0(N), SC:0(N) usul be always bolanced and in agrect No Extra Bracket string str = "(a+b)" = "((a+b))" YES Extra Bracket NOTE:
A broacket pour is useful ? +? + have a new expression inside = "(a+b) x (c+d+(exf)/())"
= "(a+b) x (c+d+(exf)/())"
) PES Extra Bracket = " ((a) +(b))" NO Extra Boacket

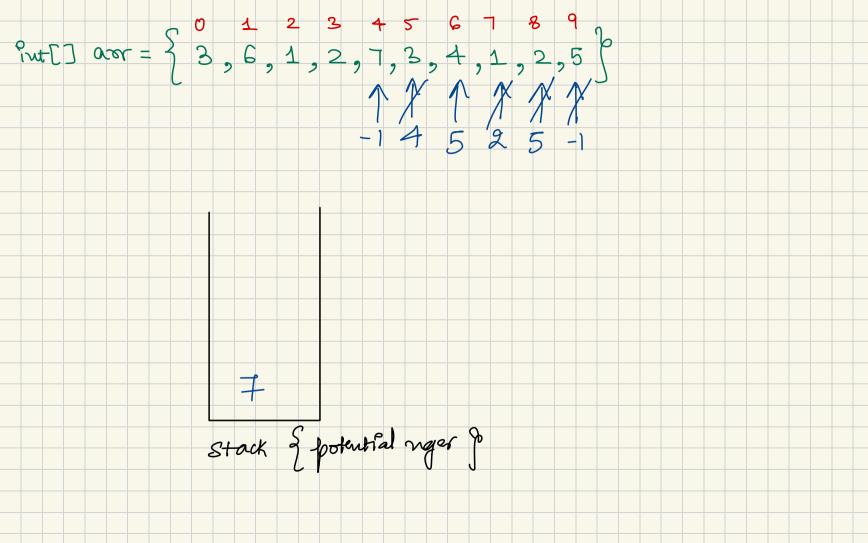
st = (a + (b + d + f - (m) + 0) * (b)())Closing Bracket toy to find corresponding No erg. removed, hence entre broder Ex slew Shows an emp. In blu Prence useful pair

str = " (((a+b) + (c)))" Extra Branket Post!





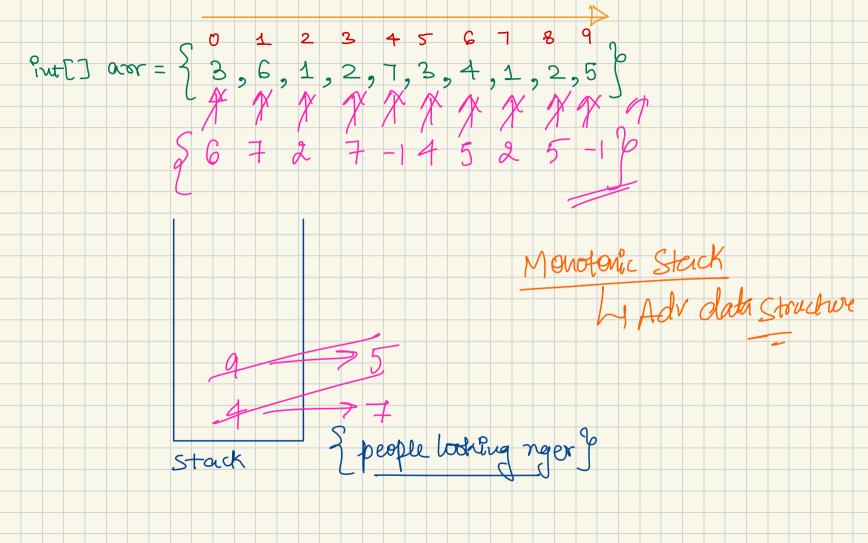




```
Put[] are = }
public static long[] nextLargerElement(fong[] /arr,
    // potential nger
  // potential nger

Stack<Long> st = new Stack<>(
    long[] nger = new long[n];
    //right to left
    for (int i = n - 1; i >= 0; i--) {
        long ele = arr[i];
                             ess potential ans in the stack
            st.pop();
        if (st.size() > 0) {
            nger[i] = -1;
    return nger;
```

Approach 2 . E var [] are = people looking for nges] Stack



B = reso []tui Stack

Stock Span Froblem $an[] = \{100, 80, 60, 70, 60, 75, 85\}$ span -> no. of consecutive day, Inc. werrent day stock
price cess than equal to current day price

 $+c:O(N^2)$ SC:O(1)

