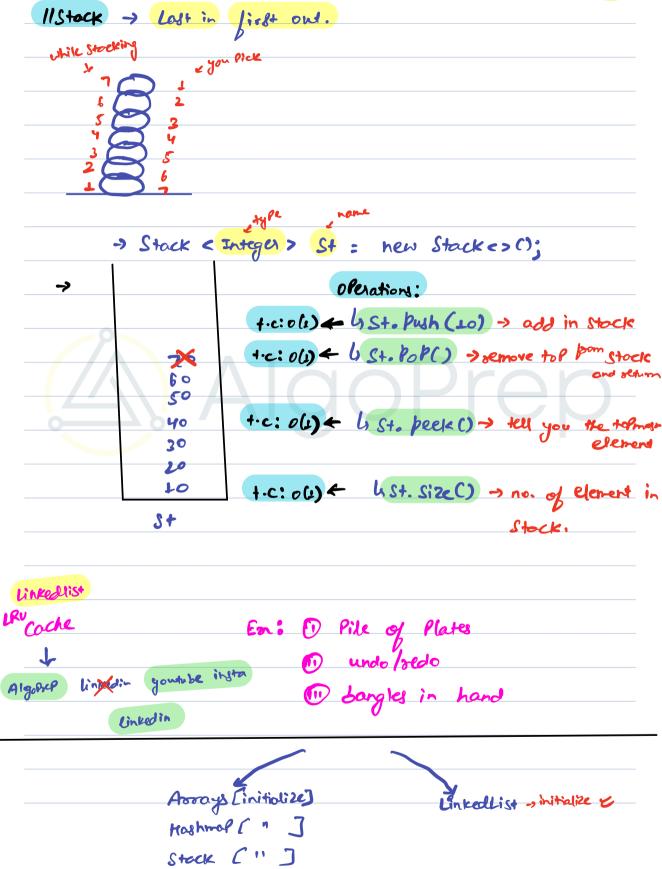




Today's agenda
Today's agenda b Stacks
b linkedlist as stack
Linkeaust as stack
6 Remove adjacent duflicate
Balanced Parentheles
6 Min Stock
2
ALCOPICO PICO



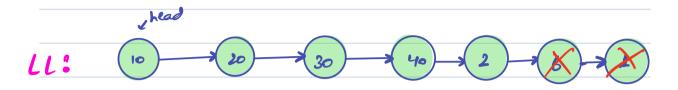


2000 Host



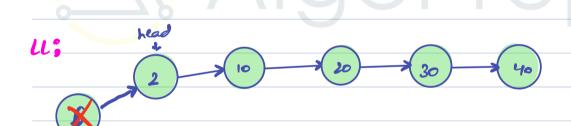
Illinkedlist as Btack

Lost in first out



2 6 1 POP() POP() 1 t

- 1) addlest -> O(N)
- 1 semore by O(N)



2 6 1 POP() POP()

add fiss + -> 0(1)



a) Remove adjacent duflicate						
adjacent characters. Return the final String.						
Ens: abbbbd -> ad						
En2: ab¤øde → ade						
En3: a & & b e > a be						
En4: ad CX8exxXX ed badceded En5: axxxx da bada						
· · · · · · · · · · · · · · · · · · ·						
En: "axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx						
in. WELDER WALKER						
<u> </u>						
a e d						
X X						
X						



119 suedo code

	Stoing Remove adjacent duplicate (Stoing 5)1	
	Stack < Character > St = new Stack <> ());
	for (int 1=0; i < S.length(); i++) { if (st. Size():=0) {	
T.C.: D(N) S.C.: O(N)	St. push (s. CharAt(i)), Continue;	
	if (S+. peek() == S.chorAt(?)) S+. pop()?	4
	3 else (S+. Push (s. Char A+ (i));	
	3	
	Char [] are: new char [st. size []; for lint i= are.length-1; i>=0; i) are [i] = St.pop();	t
	-> Convert are le String & seturn.	



Break till 9:45 pm
WAY AIGOPIED



Q) Valid Parentheses
by Given a Stoing with 'c' 'j' 'L' 'j' 'c' 'j', you have
to find whether the Stoing is balanced or not.
Note: balanced Strings:
O open brockets must be closed by the same type
of boocket.
S: ()(3 [] (()) → torre
S: ()(3E) > false
Opening brockets must be closed in correct order. S: [()] > false S: () (()) > false
s: [c)[]{3]{3
R



11 Psuedo Code

```
valiaborentheses (String 5) }
       boolean
                  Stack < Character > St : new Stack<> ();
                for (ind i:0; i < S. length (); i++) {
                              if (St. Size()::0) <
                                  St. push (S[i]);
Continue;
7C: O(N)
S.C. 0(n)
                           if (Stid =: 'c') | Stid =: 't') {
                                  St-pwh(srij);
                           else f
                                 else if (S[i] := '3'){
if (S+.peek () == '(' ) ( S+.pop(); }
                                 jelse Lochen jabe; 3
                                    if (s+-peek () = = 'C' ) ( s+-pop(); 3
                                   else Lochen Jale; 3
                      if (st. Size() = = 0) { return toue; }
else { return false; }
        3
```

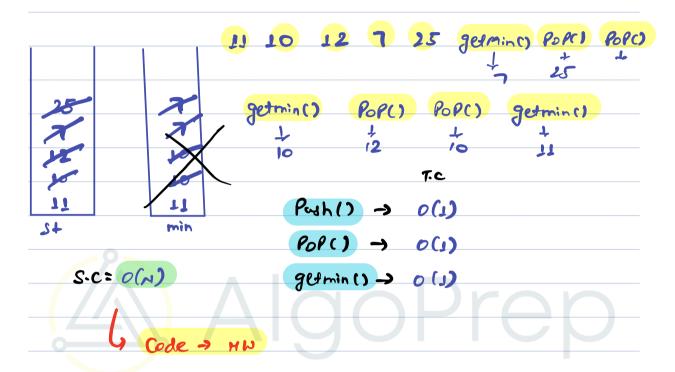


Q) Min Stack	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Posh ()	, Peek(), 5124	e C)	
Nomal	Stock -> Pol				
Min	Stock > get	emin() > n		of sto	rck
in stock	10 12	2 7 25	gemin ()	Popel	Polic
	getm	in ()			
	0 1				
28					
12 10	Alg	OF	Pre)
Wrong Ilidea 1					
<u> </u>	11 10 17	2 7 25	germina	Popel	Porc
			7	25	7
		Pop()	getmin ()		
25	1/2	10			
- X					
N					
11					
	\sim				
2nd min = 6 16 10)					
2nd min : 6 1610					



Correct ideal

lo use 2 Stacks



doubts

