STACK
La Data Staucture
>> Linear De
-> Last In First Out (LIFO)
S S S S S S S S S S S S S S S S S S S
ag -> Call / Function Stack in memory
-s Undo (redo
-> Forward / Back in browser
Functions of stack
Posh - add at top 2
2 Pob = gamove from top = push(4)
2) Peek = pretvan top = bush(3) bush(5)
(i) size = actuans size of = boloc)
Is Empty > returns boolean depending on size

AggrayList 7 [1 (2 [3] 4] 5 remove First O(n) Add First O(n) Add Last O(1)
get O(1) remove Last 0(1) class Stack & Array List push (int item) {

list add (item);

remove Forst O(1) add First OLI) siemo ve Last O(n) add Last with tail 0(1)

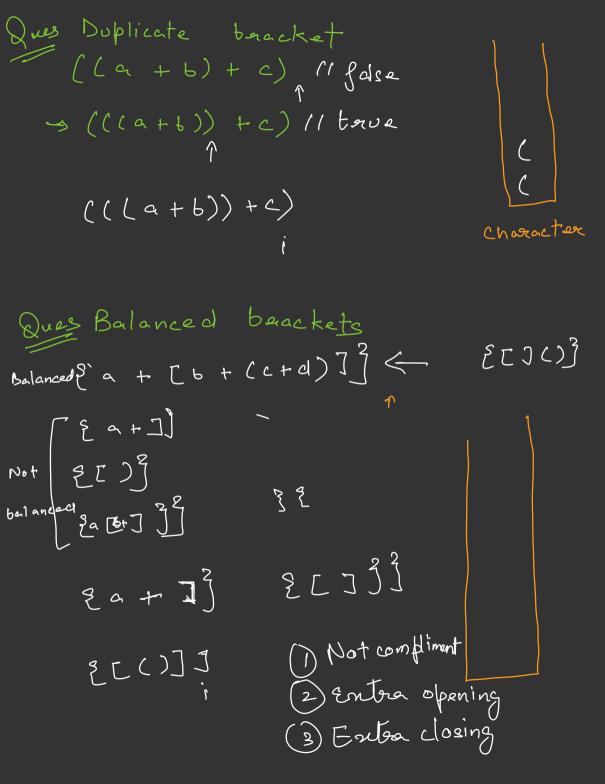
popc) bush(2) push (6)

push (u) return ar [t], push(s) peep()-> puch(7)

 $(3) \rightarrow (2) \rightarrow (1)$ 1) Push -> add Figst 2) Pop - aemove First 3 Peak - get First -> get Node (0) (4) Singe 3 Size = =0 (S) Is Empty bush (val) } asse [++ top] = Val 3 Pop () { top - -; oretvan coaltop+1); beek () { neturn ana [top];

Stack &

singe



Dues Next greater element on right -1 8 8 8 4 8 -1 11 6 S 1 4 8 8 8

while (one (st. pekc)] < andi)

E int ida = st.pop();

restidad = ana(i);

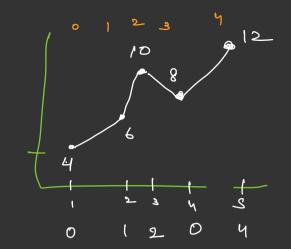
3

- | '

Ques Stack span

1) Next greater Josom left

2 coorldx - ngeldx -1



() ues	C2 (2 O	par		
D			1 2 1	<u> </u>
1	メ	1/	V	X
2	メ	×	V	X
3	×	X	V	~

2

0 1 2 3 2 1

.

$$(a + (b + c) + d) + e)$$
 $(a + (b + c) + d) + e$

