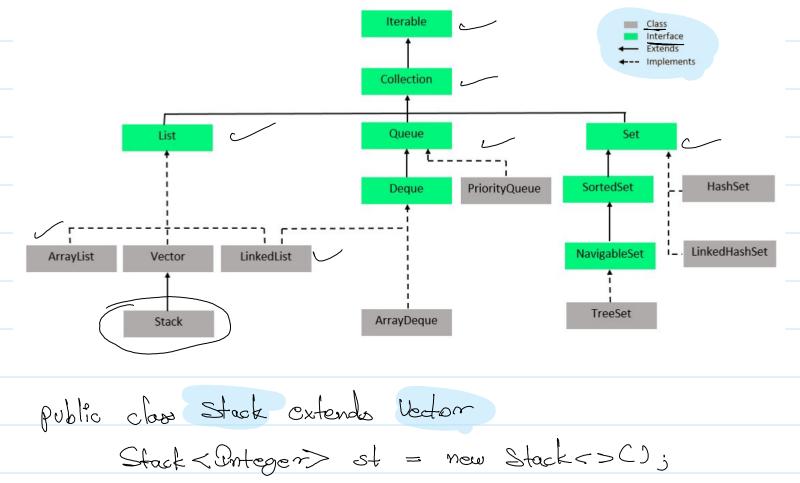
 ٨	N
	L .1
Hac	10

Arrays - [-,-,-] Fixed Size
Ovet & Set -00(1)
Array list - Dynamic Array
Stack - 2PPO (last in Pinet out)
Stacker of book - Example
4
Add, Cret, Remove
Gy Remove
Add Got Remove
Add 1
2) Add 2 - O and (2)
DAdd 2 - O and 2 - Add 1 - Add
Add - Push
Got - Peck - Main Methods of Stack
Remove _ s Pop losh, Peck, Pop, 23e

Note - Java Coblection framework provides the impl.



Stack < Integer> st = new Stack < > C);

st. purk (2);

st. peck ();

st. remove ();

```
Stack<Integer> st = new Stack<();

st.push(item: 1);

st.push(item: 2);

st.push(item: 3);

st.push(item: 5);

st.push(item: 6);

st.push(item: 7);

Integer pop = st.pop();

System.out.println(pop);

System.out.println(st.peek());
```

A)	Ch	ock	for	dupli	cate	produ	cketu	
		\mathcal{C}	1+2)+	-CC4-	(CZ+			
			5	00				
				uta				
	b)	C	1+2)	4 CL	1 tor)) –€	Palse	o _
					()	2		

Example => ((1+2)+(4+5))	
Took for open brockets	* 4
2) As soon as we got the clasing	4 4
bracket, then pop till we not came	67
ocross any opening brocket & then Pop that opening bracket too.	No Dupkates

Example -0 (1+2) + ((4+0))

((1+2)) + (+5)

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```
String data = "((1+2)+(4+5))"; //True
Stack<Character> st = new Stack ◇(); ~ & tack
char ch = data.charAt(\underline{i}); -\infty (\mathbb{I}) \mathbb{I}
   if (ch = ')') { ~ Condition Closing bracket
       if (st.peek()='(') { o found the open in bracket or soon as we enter.
          System.out.println(true); //Duplicates Found
          return; - Returning.
       } else { ___ Not found the concument opening
          while(st.peek()≠'(') {
                             opening bracket
              st.pop();
          st.pop(); - Pop that opening bracket too.
   } else { _ Spening bracket
                     - s Push that to the Stack
       st.push(ch);
```

