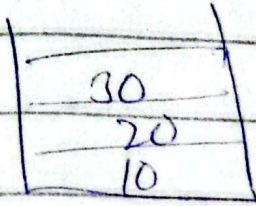


# Stack

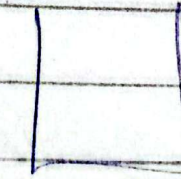
Bucket like Data structure  
LIFO (Last In first Out)



push(10)

push(20)

push(30)



pop(30)

pop(20)

pop(10)

→ Function

• pop()

• push()

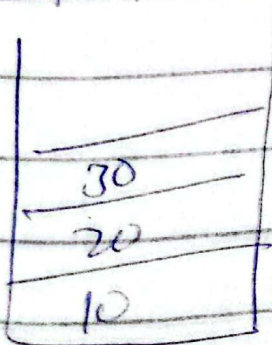
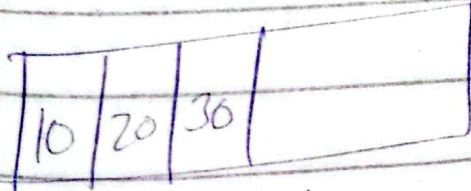
• top()

= T.C (1)

→ Stack using Array/Vector

code → vector — behaviour of vector (stack)

```
class stack {  
    vector<int> v;
```



push → v.push\_back(val)  
stack

pop → return v[v.size()-1]  
stack

pop → v.pop\_back()  
stack.



## Stack using Linked List

head is Important  
list enters ll

push = ll.pushfront(val)

top  
stack = ll.front()

30
20
10



pop = ll.popfront()  
stack

Q2 SH

we header file <stack>

All the remaining functions remain same