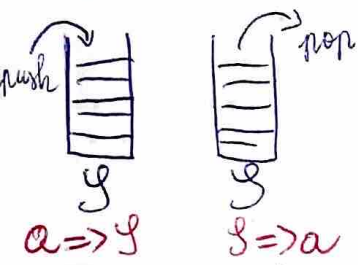
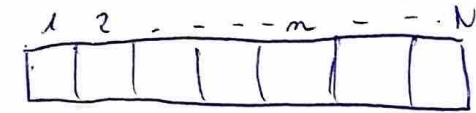


Stive



void push(a) T pop(a) {returneaza elementul sters}



$n = \text{nr. elemente stiva}$

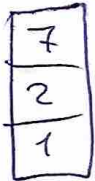
push(a):

```
if n=N then
    write "OVERFLOW"
    stop
endif
n++;
x[n]=a;
```

pop(a):

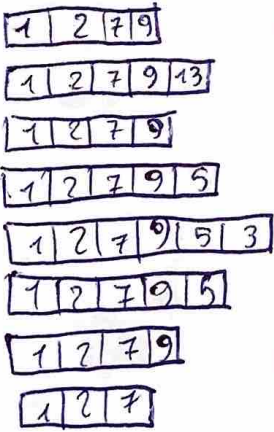
```
if n=0 then
    write "underflow"
    stop
endif
write x[n] "este elementul"
n--;
```

Se da stiva următoare:

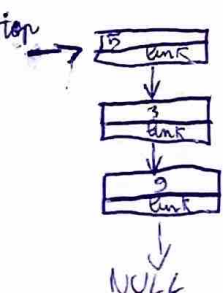


Să se scrie cum se modifică stiva după următoarele operații:

```
- push(9);
- push(13);
- pop();
- push(5);
- push(3);
- pop();
- pop();
- pop();
```



Alocare în lanțuri



```
struct Nod {
    T info;
    Nod* link;
};
Nod* top;
```

Operații de bază:

1) Accessare

if top != NULL write top -> info
else "UNDERFLOW"

2) Inserearea (push(a))

Nod* p;

p = New Nod;

if p=NULL -> "OVERFLOW" stop
endif

$P \rightarrow info = a;$
 $P \rightarrow link = top;$

$top = P;$

COZI

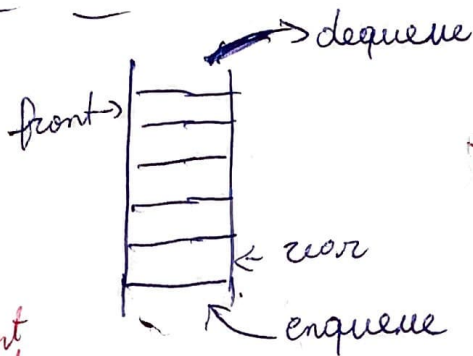
Fiecare element:



$Node * front;$ $Node * rear;$

$front \Rightarrow$ pointer prim element

$rear \Rightarrow$ pointer ultim element



$a \Rightarrow C$ enqueue(a)
 $C \Rightarrow a$ dequeue(a)

Operații de bază

1) Inserarea unui element enqueue(a);

```

if p = NULL then {
    Write "OVERFLOW";
    Stop;
}
endif
  
```

$P \rightarrow info = a;$

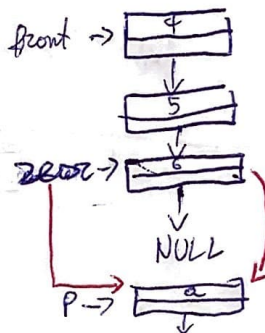
$P \rightarrow link = NULL$

if $rear \neq NULL$ then

$rear \rightarrow link = P;$

endif else $front = NULL;$

$rear = P;$



2) Ștergerea unui element dequeue(b);

if $front == NULL \ \&\& \ rear == NULL \{$

cout << "UNDERFLOW";

Exit;

}

$temp = front;$

$front = front \rightarrow link;$

cout << "elementul șters este" << $temp \rightarrow info;$

if $front == NULL \{$

$rear = NULL;$

}

delete temp;