Stack - last in first out

$arr[5]$

[4]		116
[3]		112
[2]		108
[1]		104
[0]	10	100

top

[-1]

$arr[top] = 10$

stack full =
$top == SIZE - 1$.

pop ()
① $arr[top] = 0;$
② $top--$

$top = top + 1$
$-1 + 1$
$top = 0.$

$arr[0] = 10$ ✗
$arr[top] = 10$
$[P.S \rightarrow top = data]$

push ()
① Increment the top
② Insert the data at
the top position
$arr[top] = data.$

3 basic operations of stack
1) Push -> add the element on the stack
2) Pop -> delete the element from the stack
3) Peek -> check the current element

Push :
1) Increment the top by 1
2) Insert the element at top position

Pop :
1) Decrement the top by 1

Peek :
1) Return the value at top position

Stack empty condition :
top == -1

Stack full condition :
top == SIZE-1

10   20   ③30   → add_last } ✓

10   20   → delete last } ✓

③30   20   10   → add_first }
                → delete_first }