

# stack

26 April 2023 16:18

## 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) Check if stack is not full
- 2) Increment the top by 1
- 3) Insert the element at top position

Stack full condition ->  $\text{top} == \text{SIZE} - 1$

Arr[5]

[4]	90	116
[3]	70	112
[2]	30	108
[1]	20	104
[0]	10	100
top	[-1]	

Initialize the top to -1

## Pop :

- 1) Check if stack is not empty
- 2) Decrement the top by 1

Stack empty condition ->  $\text{top} == -1$

## Peek :

- 1) Check if stack is not empty
- 2) Return the value at top position