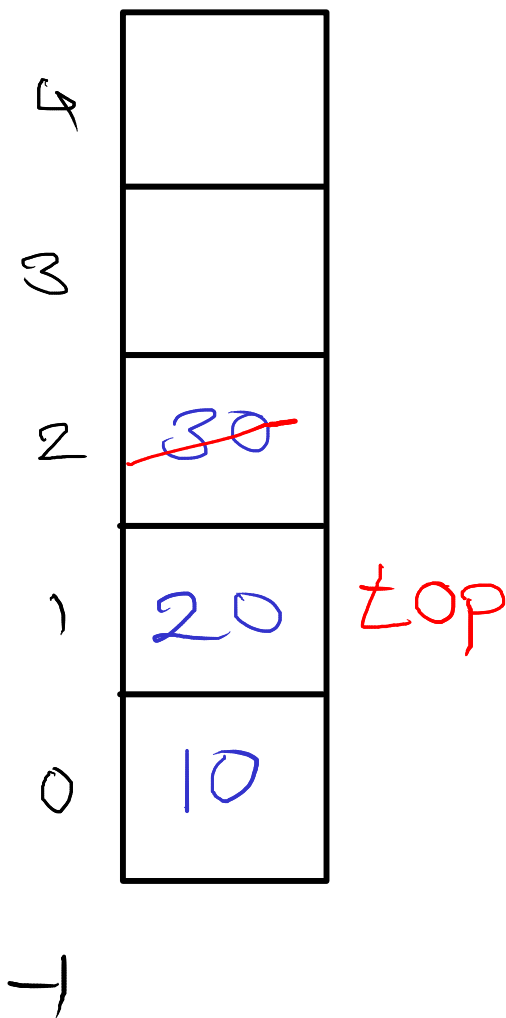


Stack

- stack is a linear data structure which store similar type of data
 - insert and remove is allowed from only one end (top)
 - stack works on the principle of "Last In First Out"(LIFO).
- top will always point to last inserted data



Operations:

1. Insert/Add/push:

- reposition top (inc)
- add value at top index

2. Remove/Delete/pop:

- reposition top (dec)

3. Peek/collect:

- read data from top index

Time Complexity:

push/pop/peek can be performed in $O(1)$ time.

Condition:

- Empty: $top == -1$
- Full: $top == SIZE - 1$