Description | My Submissions | Hints/Editorial | AC Submissions | My Notes (0)

Stack Increments

? Ask Doubt

Time-Limit: 1 sec Score: 0/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100 Relevant For: AZ-201

Description

You have a box and you want to put numbers into it.
The capacity of the box is **n**. If the box has **n** numbers, no more numbers can be added to it.
Implement the **CustomStack** class :

1. **CustomStack(int n):** Initialises the object with n which is the maximum capacity of the box.
2. **void push(int x)** (1 <= x <= 1000) - Add x to the top of the box. If the box has already reached its capacity, do nothing.
3. **int pop() -** Return the number present on top of the box. Return -1 if the box is empty.
4. **void inc(int k, int val) -** (1 <= k <= 10^4, 0 <= val <= 1000) **-** Increment the bottom **k** numbers of the box by **val**. If there are less than **k** numbers in the box, just increment all the numbers.

Input Format

Your CustomStack object will be instantiated and called as such:

```
CustomStack* obj = new CustomStack(maxSize);
obj->push(x);
int param_2 = obj->pop();
obj->inc(k,val);
```

Output Format

Implement the **CustomStack** class.

Constraints

```
1 <= n <= 100000
1 <= q <= 100000  (total number of function calls)
1 <= x <= 1000
1 <= k <= 105
0 <= val <= 1000
```

Sample Input 1

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```
4 12
push 5
push 9
push 8
push 7
```

C++14[GCC]

Submit

```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4
```