Queue using 2 Stacks AZ101

? Ask Doubt

Time-Limit: 1 sec Score: 100.00/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100

Description

Implement a queue using 2 stacks. You will be given the following type of Q queries:

1. push x - add x to the queue
2. pop - pop the front element of the queue, you also have to print the element you have popped.
3. front - find the element at the front of the queue

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer Q - the number of queries

Each of the next Q lines contain the queries.

Output Format

For each test case, print the required queries.

Constraints

$1 \le T \le 10^6$

$1 \le Q \le 10^6$

$1 \le X \le 10^6$

It is guaranteed that the sum of Q over all test cases does not exceed 10^6.

Sample Input 1

Copy

```
1
7
push 3
push 5
pop
front
push 7
pop
pop
```

C++14[GCC]

Submit

```
1
```