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

Priority Queue AZ101

? Ask Doubt

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

Memory: 256 MB Accepted Submissions: 100

Description

You are given Q queries and have to perform the following operations:

1. add x - add element x at the top of Priority Queue
2. remove - delete top element of the Priority Queue, if Priority Queue is not empty
3. print - print the element at top of the Priority Queue, if Priority Queue is not empty, otherwise print 0

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 ines contains queries.

Output Format

For each test case, print the required queries.

Constraints

$1 \le T \le 10^5$

$1 \le Q \le 10^5$

$1 \le X \le 10^6$

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

Sample Input 1

Copy

```
1
6
add 4
add 5
add 3
print
remove
print
```

Sample Output 1

Copy

C++14[GCC]

Submit

1

Typesetting math: 100%