ICPC Assiut University Community

Juniors Phase 1 Training ,Do Your Best



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP ICPC CHALLENGE 🛣

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

H. priority queue minimum

time limit per test: 2.0 s memory limit per test: 256 megabytes input: standard input output: standard output

You have an empty array A of integers, and q queries in the following format:

- $push \ x$: where $(1 \le x \le 10^9)$ add x to the end of A.
- pop: remove the smalest nummber in A.
- *top* : print the smalest number in *A*.

It's guaranteed that in the last 2 types of the query, A is not empty

Input

The first line of input contains an integer q ($1 \le q \le 10^6$).

The next q lines contain the queries.

Output

Print the answer to the queries in separate lines

Example



<u>ICPC Assiut University Training -</u> <u>Standard - Juniors Phase 1</u>

Public

Participant



→ Group Contests



- Standard #4 (Binary search , two pointers)
- Standard #3 (set , sorting, compare function , map)
- Standard #2 (binary search, stack, queue, deque, priority queue)
- Standard #1 (Frequency, prefix sum, vector, pair, struct)

Standard #2 (binary search, stack, queue, deque, priority queue)

Finished

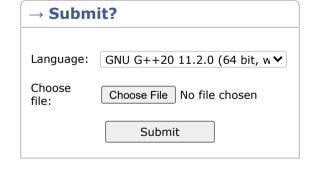
Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



→ Last submissions		
Submission	Time	Verdict
226499491	Oct/03/2023 23:58	Accepted