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

G. priority queue maximum

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 greatest number in *A*.
- top: print the greatest 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

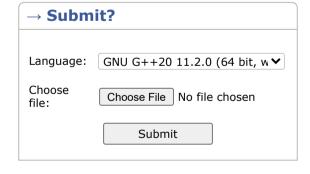
Practice



→ 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
226499182	Oct/03/2023 23:52	Accepted