

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  $(1 \leq x \leq 10^9)$  add x to the end of  $A$ .
- $pop$  : remove the smallest nummber in  $A$ .
- $top$  : print the smalest nummber 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  $q$   $(1 \leq q \leq 10^6)$ .

The next  $q$  lines contain the queries.

Output

Print the answer to the queries in separate lines

Example

inputCopy

10  
push 5  
top  
push 6  
top  
push 3  
top  
pop  
top  
pop  
top

outputCopy

5  
5  
3  
5  
6

ICPC Assiut University Training - Standard - Juniors Phase 1

Public

Participant

★

→ Group Contests

- Standard #5 (Bits , bit-masking )
- 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

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
<a href="#">226499491</a>	Oct/03/2023 23:58	Accepted