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- **##** Problems
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- Ranbx101109107 ▼

**Submissions** 

View Contest

Information

2000MS

256MB

Standard IO

ta\_redleaf

Hidden

100

Show

ID

Time Limit

IO Mode

Level

Score

Tags

Created By

Memory Limit

**III** Rankings

- About ∨
  - 1  $\times$  : Insert number x
  - 2 : Remove an element with smallest value in the heap. If the heap is already empty, ignore this command.
  - 3 : Report the smallest number in the heap. If the heap is already empty, print "EMPTY" (without quotation mark).

### Input

The first line contains an integer q, being the number of operations.

The following q lines are the operations described in the problem statements.

#### Restrictions

- $1 \le q \le 2 \cdot 10^6$
- $-10^9 \le x \le 10^9$

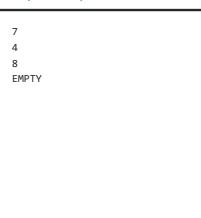
## Output

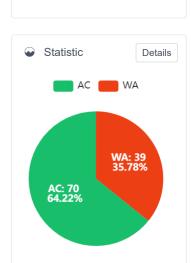
For each query with type 3, print the answer in one line.

# Sample Input 1 🖹

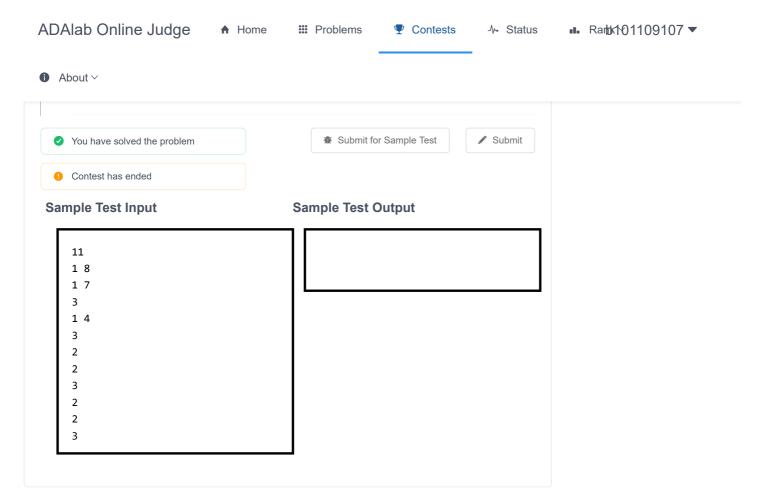
11
1 8
1 7
3
1 4
3
2
2
3
3 2 2
2
3

# Sample Output 1





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6					
1					
L					



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