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Dashboard > Data Structures > Heap > QHEAP1

Points: 25 Rank: 183204





Problem

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This question is designed to help you get a better understanding of basic heap operations.

You will be given queries of 3 types:

- "1 v" Add an element v to the heap.
- "2 v" Delete the element v from the heap.
- "3" Print the minimum of all the elements in the heap.

NOTE: It is guaranteed that the element to be deleted will be there in the heap. Also, at any instant, only distinct elements will be in the heap.

Input Format

The first line contains the number of queries, Q.

Each of the next Q lines contains a single query of any one of the 3 above mentioned types.

Constraints

$$1 \le Q \le 10^5$$

$$-10^9 \leq v \leq 10^9$$

Output Format

For each query of type 3, print the minimum value on a single line.

Sample Input

- 5
- 1 4
- 1 9
- 3 2 4
- 2 4

Sample Output

4

9

Explanation

After the first 2 queries, the heap contains $\{4,9\}$. Printing the minimum gives 4 as the output. Then, the 4^{th} query deletes 4 from the heap, and the 5^{th} query gives 9 as the output.

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 ${\color{red}\textbf{Submissions:}}\underline{10249}$

Max Score:25

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Difficulty: Easy

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                                                                                            Java 7
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 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼ public class Solution {
 8
        public static void main(String[] args) {
 9 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
   }
12
                                                                                                                      Line: 1 Col: 1
                      ☐ Test against custom input
                                                                                                         Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

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