

HEAPIFY

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✓ Points: 100 (partial)② Time limit: 1.0s■ Memory limit: 64M

✓ Allowed languages

Problem Statement

You are required to implement a min heap. You are given Q queries. The queries can be of the following types:

- 1 X This query type inserts the element X into the min heap.
- 2 This query type removes the minimum element from the min heap.
- 3 This query type prints the minimum element of the minimum heap.

Clarification

All testcases are valid. You won't be asked to delete or print the min element from a empty heap.

Input Format

Each test case consists of q queries. The description of the test cases is as follows:

- The first line of each test case will contain one integer q representing the number of queries.
- Following would be q lines of queries, each having an integer a, spcifying the type of the query and integers x, if query is of 1st type.

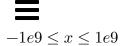
Output Format

Print the minimum element in the heap whenever the query is of 3rd type in seperate line.

Constraints

proudly powered by **DMOJ** | English (en)

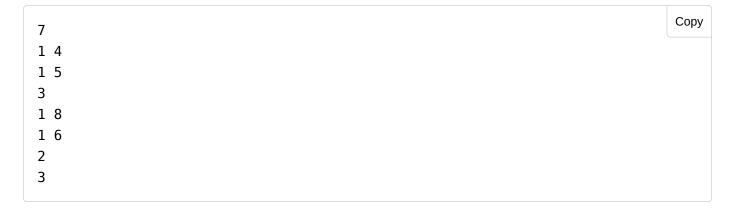
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Sample Testcase

Input



Output

4 5

Clarifications

Request clarification

No clarifications have been made at this time.

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