



HEAPIFY

Submit solution

All submissions
Best submissions

✓ Points: 100 (partial)② Time limit: 1.0s

Memory limit: 64M

✓ Allowed languages

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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:

- ullet 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.

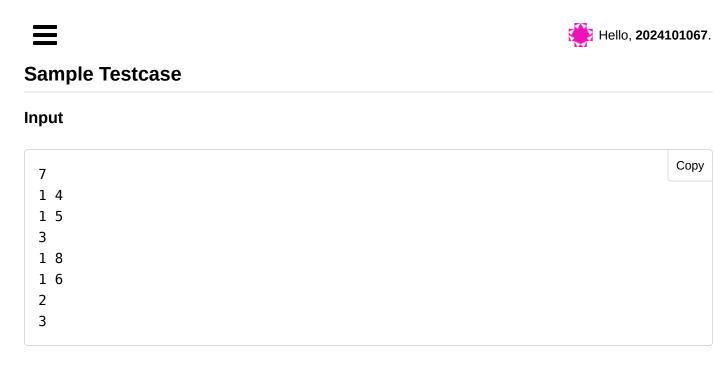
Constraints

 $1 < a < 10^6$

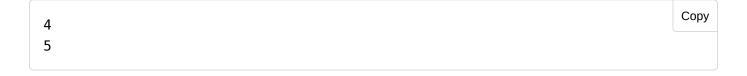
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Output



Clarifications

Request clarification

No clarifications have been made at this time.

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