



## Keep Max Give Min

Submit solution

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✓ Points: 100 (partial)

② Time limit: 1.0s

■ Memory limit: 256M

✓ Allowed languages

#### **Problem Statement**

You are initially given a empty array. You have to apply Q operations on it. Each operation is of one of the 2 types:

- 1. **PushifMax(value)**: Insert value into the container only if it is strictly greater than the current maximum value in the container.
- 2. GetMinAndPop: Retrieve the minimum value from the container and remove it.

#### **Input Format**

- The first line contains an integer Q ( $1 \le Q \le 2*10^5$ ), the number of operations.
- The next (Q) lines describe an operation:
  - "1 x": Perform **PushIfMax** operation, where x ( $1 \le x \le 10^9$ ) is the value to be inserted.
  - ["2"]: Perform **GetMinAndPop** operation.

## **Output Format**

• For each **GetMinAndPop** operation, print the removed minimum value on a new line. If the container is empty print -1 in a new line.

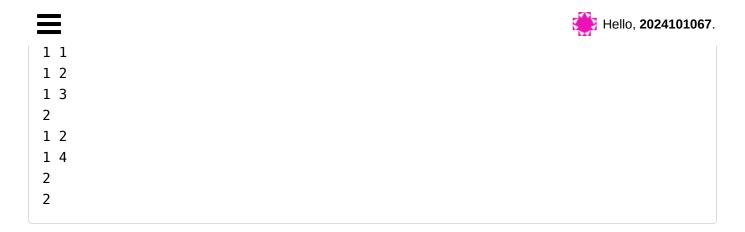
## **Example**

#### Input

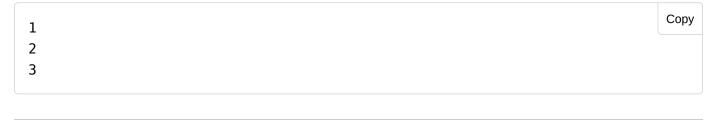
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#### Output



# Clarifications

Request clarification

No clarifications have been made at this time.

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