# Another Contest 10 Problem 3 - Wesley's Anger Contest 7 Problem 3 - The Obligatory Rage Tree Problem

#### Time limit: 5.0s Memory limit: 1G

You are given an array of \$N\$ elements. Support the following two operations:

- UPDATE i v Set the element at index i to v.
- QUERY 1 r Output the maximum element of the subarray bounded by 1 and r.

#### Constraints

\$1 \le N, Q \le 10^6\$

\$1 \le i, l, r \le N\$

The array will only contain positive integers between \$1\$ and \$10^9\$ inclusive.

There will be at least one QUERY operation.

#### **Input Specification**

The first line contains two integers, \$N\$ and \$Q\$.

The next line contains \$N\$ integers, the elements of the array in order.

The next \$Q\$ lines contain one of the lines as formatted above.

## **Output Specification**

For each QUERY, output the maximum such element.

#### Sample Input

### Sample Output