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985 . Assignment 4 - Finding Max (Deadline: 2019-10-12 23:59:59)

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Description

You are given an integer array $num[0..n-1]$ and several queries. There are two types of queries and each query contains three integers i , j and k .

For the first type of query ($i = 1$), you have to **modify** $num[j]$ to k .

For the second type of query ($i = 2$), you have to output the **maximum** element between indices j and k .

Input Format

The input begins with two integers n and m indicating the size of the integer array num and the number of queries respectively.

The next line contains n integers which are the elements of num .

Each of the following m lines contains three integers i , j and k indicating a query.

- $1 \leq n \leq 3 \times 10^5$
- $1 \leq m \leq 3 \times 10^5$
- $-10^9 \leq num[r] \leq 10^9, \forall r \in [0, n)$
- $0 \leq j \leq k \leq n-1$.

Output Format

For each query with $i = 2$, output the maximum element between indices j and k in one line.

Sample Input #1