# **Deletion và Queries**

Given an array of n positive integers and m queries. There are two types of queries that take the following form:

- 0 i:Delete element element at index i (value i will give the specific).
- 1 i: Output the value at index i.

Requests are made in order. If deletion fails, this request is ignored. Similarly, if there is no value at index i, output is -1.

## Input

The first line contains two integers n and m (n,  $m \le 10^4$ ).

The second line contains positive integers in the given array, each value not exceeded 10^9.

The next m lines are m queries in the given form. The indices in the queries are less than or equal to n.

## Output

Consists of many lines, the results of the second type queries

## **Example**

#### Input:

56

12698

0 1

1 1

12

0 0

#### **Output:**

6

9

-1 9