11991   Easy Problem from Rujia Liu?

> *Though Rujia Liu usually sets hard problems for contests (for example, regional contests like Xi'an 2006, Beijing 2007 and Wuhan 2009, or UVa OJ contests like Rujia Liu's Presents 1 and 2), he occasionally sets easy problem (for example, 'the Coco-Cola Store' in UVa OJ), to encourage more people to solve his problems :D*

Given an array, your task is to find the k-th occurrence (from left to right) of an integer v. To make the problem more difficult (and interesting!), you'll have to answer m such queries.

Input

There are several test cases. The first line of each test case contains two integers n, m ($1 \le n, m \le 100,000$), the number of elements in the array, and the number of queries. The next line contains n positive integers not larger than 1,000,000. Each of the following m lines contains two integer k and v ($1 \le k \le n$, $1 \le v \le 1,000,000$). The input is terminated by end-of-file (EOF).

Output

For each query, print the 1-based location of the occurrence. If there is no such element, output '0' instead.

Sample Input

```
8 4
1 3 2 2 4 3 2 1
1 3
2 4
3 2
4 2
```

Sample Output

```
2
0
7
0
```