

## 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  $n$ ,  $m$  ( $1 \leq n, m \leq 100,000$ ), 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  $v$  ( $1 \leq k \leq n$ ,  $1 \leq v \leq 1,000,000$ ). The input is terminated by end-of-file (EOF). The size of input file does not exceed 5MB.

### 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
```

### Output for the Sample Input

```
2
0
7
0
```

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*Rujia Liu's Present 3: A Data Structure Contest Celebrating the 100th Anniversary of Tsinghua University*

*Special Thanks: Yiming Li*

*Note: Please make sure to test your program with the gift I/O files before submitting!*