

# Problem E

## 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!