

**Problem 2.4      Most Ostentatiously Dressed Employee**

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Overview: Find the most frequently occurring element in a list.

Description: Moogler, the world's fastest search engine and provider of a host of web applications that have nothing to do with web search, is determined to reclaim its #1 position on Fortune's Best Companies to Work For list after being replaced by some upstart company that stores and manages network data. To improve the Moogler experience and generate more press, Moogler has decided to hold a company-wide beauty contest, in which each employee votes for which Moogler they find most attractive.

Unfortunately, California's first summer blackout of the year hit just as the program to tabulate results was running, permanently frying one of Moogler's indestructible servers and killing the program that was running.

You are interviewing for a software engineering position at Moogler, and as the final question, you have been asked to reconstruct the program that was used to determine the winner for the beauty contest. Do you have what it takes to become a Moogler?

Time Allocation: 1 second

Input: The first line contains two integers  $n$   $m$ , separated by a single space, where  $n$  is the number of votes that were cast, and  $m$  is the number of employees currently at Moogler. The next  $n$  lines each contain one positive integer  $j$ , representing a vote for Moogler's  $j$ -th employee.

Output: The output should consist of a single integer  $w$ , representing the employee number of the person with the most votes.

The output is to be formatted exactly like the sample output given below.

Assumptions:  $n$  will be an integer between 1 and  $m$ , inclusive.  
 $m$  will be an integer between 1 and 100,000, inclusive.  
Each  $j$  will be an integer between 1 and  $m$ , inclusive.  
There will be exactly one employee with the most votes.  
All input will be valid.

Sample Input #1:

```
9 15
11
2
5
2
7
10
3
7
7
```

Sample Output #1:

7

Sample Input #2:

```
9 10
1
2
3
2
2
3
1
1
1
```

Sample Output #2:

1