

Subarray and Sum

Description

Given an array of integers of length n and a positive integer K , the task is to find the count of the longest possible subarrays with the sum of its elements not divisible by K .

Input

Input Format

First line contains n and k separated by space

Second line contains strings of length n .

Constraints

$1 \leq n \leq 10^6$

$1 \leq k \leq 100$

Output

Print count of sub arrays.

Sample Input 1

```
4 3
2 3 4 6
```

Sample Output 1

```
1
```

Hint

Sample 1 Explanation

There is only one longest possible subarray of size 3 i.e. {3, 4, 6} having a sum 13, which is not divisible by $K = 3$.