

## Macarons

***This question is graded for 1%.***

### Problem Statement

The local bakery has a new item on the menu: numbered macarons. Every macaron has a random number printed on the top half. The macarons are packaged in boxes, where they are arranged side by side.

Tom has bought a box of numbered macarons from the bakery. As a math enthusiast, he is only interested in eating contiguous subsequences of macarons where the sum of the numbers of the macaron is divisible by a divisor  $d$ . Can you help Tom to count all possible subsequences fulfilling this criterion?

### Input

The first line of input contains two space separated integers  $n$  ( $1 \leq n \leq 50000$ ), the number of macarons in the box and  $d$  ( $1 \leq d \leq 1000000$ ). The following line contains  $n$  space separated integers where each integer is between 1 and  $10^9$  inclusive, and each integer represents the number on each macaron.

### Output

Output a single integer, which is the number of contiguous subsequences of macarons with a number sum divisible by  $d$ .

### Sample Input 1

4 10

1 2 3 3

### Sample Output 1

0

### Sample Input 2

5 4

2 1 2 1 2

### Sample Output 2

2

### Explanation

For Sample Input 1, no subsequences have a sum divisible by 10. For Sample Input 2, there are two possible subsequences with a sum divisible by 4: (2,1,2,1,2) and (1,2,1).