https://course.acciojob.com/idle?question=6b0355db-2e09-4afa-8be 4-045d710113fb

- EASY
- Max Score: 30 Points
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Subarray sum divisible by k

Given an integer array nums and an integer k, print the number of non-empty subarrays that have a sum divisible by k.

A subarray is a contiguous part of an array.

Input Format

Input consists of two lines.

The first line contains two integers n (size of the array) and k.

The second line contains n spaced integers.

Output Format

Print count of subarrays divisible by k

Example 1



6 5

4 5 0 -2 -3 1

Output

7

Explanation

There are 7 subarrays with a sum divisible by k = 5:

[5]

[5, 0]

[5, 0, -2, -3]

[0]

[0, -2, -3]

[-2, -3]

Example 2

Input

4 2

4 5 0 -2

Output

4

Explanation

There are 4 subarrays with a sum divisible by k = 2:

[4]

[0]

[0 - 2]

[-2]

Constraints

```
1 <= nums.length <= 5 * 10^3
-10^4 <= nums[i] <= 10^4
2 <= k <= 10^4
```

Topic Tags

- Hashing
- Arrays

My code

```
// in java import java.io.*; import java.util.*; public class Main { public static void main(String[] args) throws Exception {
```

```
Scanner scn = new Scanner(System.in);
  int n = scn.nextInt();
   int m = scn.nextInt();
int c=0;
  int[] arr = new int[n];
  for (int i = 0; i < n; i++) {
    arr[i] = scn.nextInt();
  }
  for (int i = 0; i < arr.length; i++) {
    int sum=0;
    for (int j = i; j < arr.length; j++) {
       sum+=arr[j];
     int r=sum%m;
     if(r==0)
     C++;
  System.out.print(c);
}
```