## Problem Statement

Ram was playing with an array when he got to know the existence of different patterns found in arrays. He wrote code for different kinds of patterns and enjoyed it a lot, one day he got stuck in a pattern and asked for your help.

He gave you an array let’s call it arr and asked you to find the number of pairs of (i,j) such that given a number k :

* 0<=i<j<=arr.length - 1
* arr[i] \* arr[j] is divisible by k.

Given an array and a number k, find the number of pairs of elements in the array such that their product is divisible by k.

Input Format

The first line contains a single integer, k.

The second line contains a single integer, n, representing the number of elements in the array.

The third line contains n integers, arr[i], representing the elements of the array.

Output Format

Print the number of pairs divisible by k.

Constraints

1 <= arr.length<= 105

1 <= arr[i], k <= 105

Sample Testcase 0

Testcase Input

3 5 1 2 3 4 5

Testcase Output

4

Explanation

The possible pairs of numbers which satisfy the given condition are (2,4), (1,4) , (4,5), (3,4) hence the number of pairings possible is 4.

import java.io.\*;

import java.util.\*;

import java.text.\*;

import java.math.\*;

import java.util.regex.\*;

class Main {

    public static void main(String[] args) {

        /\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

         Scanner sc = new Scanner(System.in);

        int k = sc.nextInt();

        int n = sc.nextInt();

        int[] arr = new int[n];

        for(int i = 0; i < n; i++) {

            arr[i] = sc.nextInt();

        }

        System.out.println(FindPairs(arr,k,n));

    }

    public static int FindPairs(int[] arr,int k,int n){

        int product=0;

        int count=0;

        for (int i = 0; i < arr.length; i++) {

            for (int j = i+1; j < arr.length; j++) {

            if(arr[i]\*arr[j]%k==0){

                count++;

            }

        }

        }

        return count;

    }

}