



Divisible Pairs Sum



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Problem

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You are given an array of n integers, a_0, a_1, \dots, a_{n-1} , and a positive integer, k . Find and print the number of (i, j) pairs where $i < j$ and $a_i + a_j$ is evenly divisible by k .

Input Format

The first line contains 2 space-separated integers, n and k , respectively.

The second line contains n space-separated integers describing the respective values of a_0, a_1, \dots, a_{n-1} .

Constraints

- $2 \leq n \leq 100$
- $1 \leq k \leq 100$
- $1 \leq a_i \leq 100$

Output Format

Print the number of (i, j) pairs where $i < j$ and $a_i + a_j$ is evenly divisible by k .

Sample Input

```
6 3
1 3 2 6 1 2
```

Sample Output

```
5
```

Explanation

Here are the 5 valid pairs:

- $(0, 2) \rightarrow a_0 + a_2 = 1 + 2 = 3$
- $(0, 5) \rightarrow a_0 + a_5 = 1 + 2 = 3$
- $(1, 3) \rightarrow a_1 + a_3 = 3 + 6 = 9$
- $(2, 4) \rightarrow a_2 + a_4 = 2 + 1 = 3$
- $(4, 5) \rightarrow a_4 + a_5 = 1 + 2 = 3$





Submissions: 13744

Max Score: 20

Difficulty: Easy

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```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         string[] tokens_n = Console.ReadLine().Split(' ');
9         int n = Convert.ToInt32(tokens_n[0]);
10        int k = Convert.ToInt32(tokens_n[1]);
11        string[] a_temp = Console.ReadLine().Split(' ');
12        int[] a = Array.ConvertAll(a_temp, e => int.Parse(e));
13
14        int ans = 0;
15        for (int i = 0; i < n-1; i++)
16        {
17            for (int j = i + 1; j < n; j++)
18            {
19                if ((a[i] + a[j]) % k == 0)
20                {
21                    ans++;
22                }
23            }
24        }
25
26        Console.WriteLine(ans);
27
28        Console.ReadLine();
29
30    }
31 }
32
```

Line: 29 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0
✓ Test Case #3
✓ Test Case #6
✓ Test Case #9
✓ Test Case #12
✓ Test Case #15
✓ Test Case #18

✓ Test Case #1
✓ Test Case #4
✓ Test Case #7
✓ Test Case #10
✓ Test Case #13
✓ Test Case #16
✓ Test Case #19

✓ Test Case #2
✓ Test Case #5
✓ Test Case #8
✓ Test Case #11
✓ Test Case #14
✓ Test Case #17

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