

Divisible Sum Pairs

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Problem

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Given an array of integers and a positive integer k , determine the number of (i, j) pairs where $i < j$ and $ar[i] + ar[j]$ is divisible by k .

Example

$ar = [1, 2, 3, 4, 5, 6]$

$k = 5$

Three pairs meet the criteria: $[1, 4]$, $[2, 3]$, and $[4, 6]$.

Function Description

Complete the divisibleSumPairs function in the editor below.

divisibleSumPairs has the following parameter(s):

- int n: the length of array ar
- int ar[n]: an array of integers
- int k: the integer divisor

Returns

- int: the number of pairs

Input Format

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

The second line contains n space-separated integers, each a value of $arr[i]$.

Constraints

- $2 \leq n \leq 100$
- $1 \leq k \leq 100$
- $1 \leq ar[i] \leq 100$

Sample Input

STDIN	Function
6 3	n = 6, k = 3
1 3 2 6 1 2	ar = [1, 3, 2, 6, 1, 2]

Sample Output

5

Explanation

Here are the 5 valid pairs when $k = 3$:

- $(0, 2) \rightarrow ar[0] + ar[2] = 1 + 2 = 3$
- $(0, 5) \rightarrow ar[0] + ar[5] = 1 + 2 = 3$
- $(1, 3) \rightarrow ar[1] + ar[3] = 3 + 6 = 9$
- $(2, 4) \rightarrow ar[2] + ar[4] = 2 + 1 = 3$
- $(4, 5) \rightarrow ar[4] + ar[5] = 1 + 2 = 3$

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Difficulty	Easy
Max Score	100
Submitted By	27008

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Language

C#

1

using System.CodeDom.Compiler;

2

using System.Collections.Generic;

3

using System.Collections;

4

using System.ComponentModel;

Line: 57 Col: 1

 Upload Code as File

☐ Test against custom input

Run Code

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