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Divisible Sum Pairs *

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.

Leaderboard

Example

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

Problem

$$k = 5$$

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

Function Description

Complete the divisibleSumPairs function in the editor below.

Submissions

divisibleSumPairs has the following parameter(s):

- ullet 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

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

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:

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



Author wanbo

Difficulty Easy

Max Score 100

Submitted By 27008

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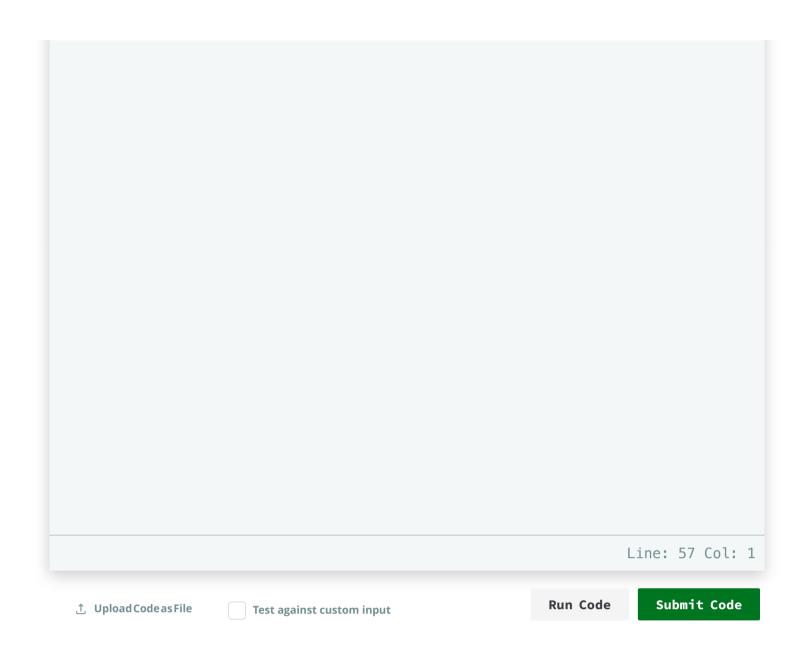
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