15/11/2017 HackerRank

















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Divisible Sum Pairs





Problem

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

Input Format

The first line contains $\mathbf{2}$ space-separated integers, \mathbf{n} and \mathbf{k} , respectively.

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

Constraints

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

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:

•
$$(0,2) \rightarrow a_0 + a_2 = 1 + 2 = 3$$

•
$$(0,5) \rightarrow a_0 + a_5 = 1 + 2 = 3$$

•
$$(1,3) \rightarrow a_1 + a_3 = 3 + 6 = 9$$

•
$$(2,4) \rightarrow a_2 + a_4 = 2 + 1 = 3$$

•
$$(4,5) \rightarrow a_4 + a_5 = 1 + 2 = 3$$

f ⊮ in

Submissions: 87116

Max Score:10

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Difficulty: Easy
Rate This Challenge:
☆☆☆☆☆
More

```
Current Buffer (saved locally, editable) & •
                                                                                             Java 7
                                                                                                                               \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
   import java.text.*;
 3
   import java.math.*;
   import java.util.regex.*;
 7 ▼ public class Solution {
 8
 9 ▼
         static int divisibleSumPairs(int n, int k, int[] ar) {
10
             // Complete this function
11
12
         public static void main(String[] args) {
13 ▼
14
             Scanner in = new Scanner(System.in);
15
             int n = in.nextInt();
16
             int k = in.nextInt();
17 ▼
             int[] ar = new int[n];
18 ▼
             for(int ar_i = 0; ar_i < n; ar_i++){</pre>
19 🔻
                 ar[ar_i] = in.nextInt();
20
             int result = divisibleSumPairs(n, k, ar);
21
22
             System.out.println(result);
23
         }
24
    }
25
                                                                                                                      Line: 1 Col: 1
                                                                                                          Run Code
                                                                                                                       Submit Code
                       Test against custom input
1 Upload Code as File
```

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