



Divisible Sum Pairs

by [wanbo](#)

Problem

Submissions

Leaderboard

Discussions

Editorial

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: 33838

Max Score: 10

Difficulty: Easy

Rate This Challenge:

★★★★★ Thanks!

Current Buffer (saved locally, editable)  

Python 2   

```
1  #!/bin/python
2
3  import sys
4
5
6  n,k = raw_input().strip().split(' ')
7  n,k = [int(n),int(k)]
8  a = map(int,raw_input().strip().split(' '))
9  count=0
10
11 for i in range(0,len(a)):
12     for j in range(i+1,len(a)):
13         if ((a[i]+a[j])%k)==0:
14             count = count+1
15
16 print(count)
```

Line: 16 Col: 12

 [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

[Next Challenge](#)

Copyright © 2016 HackerRank. All Rights Reserved

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)