



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 $k = 3$:

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

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

Change Theme

Language

Python 3



```

1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'divisibleSumPairs' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts following parameters:
14 # 1. INTEGER n
15 # 2. INTEGER k
16 # 3. INTEGER_ARRAY ar
17 #
18
19 def divisibleSumPairs(n, k, ar):
20     # Write your code here
21     count = 0
22     for i in range(len(ar)):
23         for j in range(i+1, len(ar)):
24             if (ar[i] + ar[j]) % k == 0:
25                 count += 1
26     return count
27
28 if __name__ == '__main__':
29     fptr = open(os.environ['OUTPUT_PATH'], 'w')
30
31     first_multiple_input = input().rstrip().split()
32
33     n = int(first_multiple_input[0])
34

```

EMACS

Line: 44 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

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38%

618.8/850




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✔ Test case 0

Compiler Message

✔ Test case 1 

Success

✔ Test case 2 

Input (stdin)

Download

1	6 3
2	1 3 2 6 1 2


✔ Test case 3 

✔ Test case 4 

Expected Output

Download

1	5
---	---

✔ Test case 5 

✔ Test case 6 