Divisible Sum Pairs *

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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 ${f 2}$ space-separated integers, ${m n}$ and ${m k}$.

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

Constraints

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

Sample Input

Sample Output

5

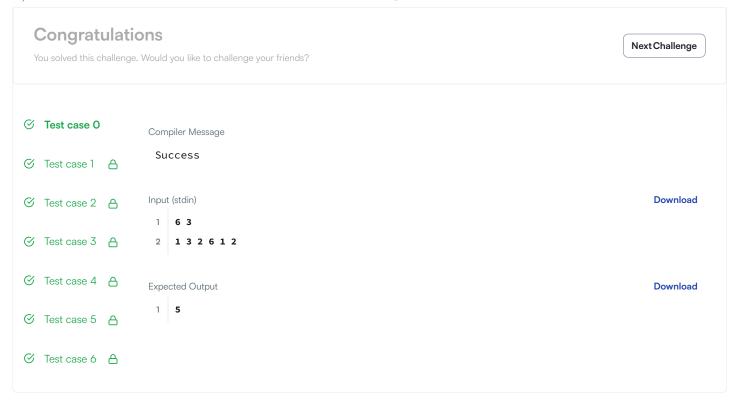
Explanation

Here are the ${\bf 5}$ valid pairs when ${\bf \textit{k}}={\bf 3}$:

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

```
• (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
                                                                                                                     22
      1
          #!/bin/python3
      2
      3
          import math
      4
          import os
      5
          import random
          import re
      7
          import sys
      8
      9
     10
          # Complete the 'divisibleSumPairs' function below.
     11
          # The function is expected to return an INTEGER.
     12
          # The function accepts following parameters:
     13
     14
          # 1. INTEGER n
             2. INTEGER k
     15
          # 3. INTEGER_ARRAY ar
     16
     17
     18
          def divisibleSumPairs(n, k, ar):
     19
     20
               # Write your code here
               count = 0
     21
               for i in range(len(ar)):
     22
                   for j in range(i+1, len(ar)):
     23
                       if (ar[i] + ar[j]) % k == 0:
     24
                           count += 1
     25
     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])
                                                                                                             Line: 44 Col: 1
EMACS
                                                                                                                   Submit Code
                                                                                                       Run Code
 \triangle Upload Code as File
                      Test against custom input
You have earned 10.00 points!
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 38%
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