

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 $k = 3$:

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

```
16 # 3. INTEGER_ARRAY ar
17 #
18
19 def divisibleSumPairs(n, k, ar):
20     result = 0
21     for idx in range(len(ar)):
22         for jdx in range(idx+1, len(ar)):
23             if (ar[idx] + ar[jdx])% k == 0:
24                 result += 1
25     return result
26
27 if __name__ == '__main__':
28     fptr = open(os.environ['OUTPUT_PATH'], 'w')
29
30     first_multiple_input = input().rstrip().split()
31
32     n = int(first_multiple_input[0])
33
34     k = int(first_multiple_input[1])
35
36     ar = list(map(int, input().rstrip().split()))
37
38     result = divisibleSumPairs(n, k, ar)
39
40     fptr.write(str(result) + '\n')
41
42     fptr.close()
43
```

Line: 23 Col: 34

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Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

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```
1 6 3
2 1 3 2 6 1 2
```

Expected Output

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```
1 5
```