



Divisible Sum Pairs ★

Problem

Submissions

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

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

Constraints

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

Sample Input

Sample Output

5

Explanation

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

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

•
$$(0,5) \rightarrow ar[0] + ar[5] = 1 + 2 = 3$$

•
$$(1,3) \rightarrow ar[1] + ar[3] = 3 + 6 = 9$$

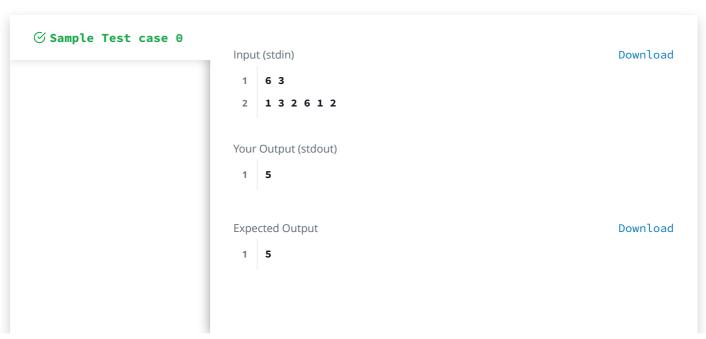
•
$$(2,4) o ar[2] + ar[4] = 2 + 1 = 3$$

•
$$(4,5) \rightarrow ar[4] + ar[5] = 1 + 2 = 3$$

```
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14
15
          /*
           * Complete the 'divisibleSumPairs' function below.
16
17
18
           * The function is expected to return an INTEGER.
19
           * The function accepts following parameters:
             1. INTEGER n
20
           * 2. INTEGER k
21
22
             INTEGER_ARRAY ar
23
           */
24
          public static int divisibleSumPairs(int n, int k, List<Integer> ar) {
25
26
          // Write your code here
28
              Collections.sort(ar);
29
              int c=0;
30
              for(int i=0;i<n;i++){</pre>
                   \quad \text{for(int } j\text{=}i\text{+}1; j\text{<}n; j\text{+}\text{+})\{
31
                       if((ar.get(i)+ar.get(j))%k==0){
32
33
                           c=c+1;
34
                   }
36
              }
37
              return c;
38
          }
39
40
                                                                                            Line: 32 Col: 39
                                                                             Run Code
                                                                                            Submit Code
Test against custom input
```

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.



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