



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 $k = 3$:

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

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Language

Java 8



```
13 class Result {
14
15     /*
16      * Complete the 'divisibleSumPairs' function below.
17      *
18      * The function is expected to return an INTEGER.
19      * The function accepts following parameters:
20      * 1. INTEGER n
21      * 2. INTEGER k
22      * 3. INTEGER_ARRAY ar
23      */
24
25     public static int divisibleSumPairs(int n, int k, List<Integer> ar) {
26         // Write your code here
27
28         Collections.sort(ar);
29         int c=0;
30         for(int i=0;i<n;i++){
31             for(int j=i+1;j<n;j++){
32                 if((ar.get(i)+ar.get(j))%k==0){
33                     c=c+1;
34                 }
35             }
36         }
37         return c;
38     }
39 }
40 }
```

Line: 32 Col: 39

[Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congratulations!

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

✓ Sample Test case 0

Input (stdin)

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1	6 3
2	1 3 2 6 1 2

Your Output (stdout)

1	5
---	---

Expected Output

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1	5
---	---

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