



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 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 Java 8



```

9  import java.util.stream.*;
10 import static java.util.stream.Collectors.joining;
11 import static java.util.stream.Collectors.toList;
12
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         int ans=0;
28
29         for(int i=0; i<ar.size(); i++){
30             for(int j=i+1; j<ar.size(); j++){
31                 if((ar.get(i) + ar.get(j))%k==0){
32                     ans++;
33                 }
34             }
35         }
36         return ans;
37     }
38 }
39
40
41 public class Solution {
42     public static void main(String[] args) throws IOException {
43         BufferedReader bufferedReader = new BufferedReader(new InputStreamReader
44         (System.in));

```

Line: 65 Col: 1

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☒ Test case 0

☒ Test case 1

Compiler Message

Success

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Input (stdin)

163

2132612

Expected Output

15

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