

# Divisible Sum Pairs

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
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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  **$k = 3$** :

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