

# Divisible Sum Pairs



You are given an array of  $n$  integers,  $a_0, a_1, \dots, a_{n-1}$ , and a positive integer,  $k$ . Find and print the number of  $(i, j)$  pairs where  $i < j$  and  $a_i + a_j$  is evenly divisible by  $k$ .

## Input Format

The first line contains 2 space-separated integers,  $n$  and  $k$ , respectively.

The second line contains  $n$  space-separated integers describing the respective values of  $a_0, a_1, \dots, a_{n-1}$ .

## Constraints

- $2 \leq n \leq 100$
- $1 \leq k \leq 100$
- $1 \leq a_i \leq 100$

## Output Format

Print the number of  $(i, j)$  pairs where  $i < j$  and  $a_i + a_j$  is evenly divisible by  $k$ .

## Sample Input

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

## Sample Output

```
5
```

## Explanation

Here are the 5 valid pairs:

- $(0, 2) \rightarrow a_0 + a_2 = 1 + 2 = 3$
- $(0, 5) \rightarrow a_0 + a_5 = 1 + 2 = 3$
- $(1, 3) \rightarrow a_1 + a_3 = 3 + 6 = 9$
- $(2, 4) \rightarrow a_2 + a_4 = 2 + 1 = 3$
- $(4, 5) \rightarrow a_4 + a_5 = 1 + 2 = 3$