**[Absolute difference divisible by K](https://practice.geeksforgeeks.org/problems/e0059183c88ab680b2f73f7d809fb8056fe9dc43/1)**

Given an array of integers of size **n** and an integer **k**, find all the pairs in the array whose absolute difference is divisible by k.  
  
**Example 1:**

**Input:**

n = 3

arr[] = {3, 7, 11}

k = 4

**Output:**

3

**Explanation:**

(11-3) = 8 is divisible by 4

(11-7) = 4 is divisible by 4

(7-3) = 4 is divisible by 4

**Example 2:**

**Input:**

n = 4

arr[] = {1, 2, 3, 4}

k = 2

**Output :**

2

**Explanation:**

Valid pairs are (1,3), and (2,4).

**Your Task:**  
You don't need to read input or print anything. Your task is to complete the function **countPairs()** which takes integers n, array arr[ ], integer k as input parameters and returns the number of pairs whose absolute difference is divisible by k.  
**Note:**The answer may be large so use 64-bit integer.

**Expected Time Complexity:** O(n + k)  
**Expected Auxiliary Space:** O(k)

**Constraints:**  
2 ≤ n ≤ 105  
1 ≤ k,arr[i] ≤ 105