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129. Given a 0-indexed integer array nums of length n and an integer k, return the number of
pairs (i, j) where 0 \le i \le j \le n, such that nums[i] = nums[j] and (i * j) is divisible by k.
Example 1:
Input: nums = [3,1,2,2,2,1,3], k = 2
Output: 4
Example 2:
Input: nums = [1,2,3,4], k = 1
Output: 0
AIM: To find the interger array nums of length n and an integer
PROGRAM:
def count_pairs(nums, k):
  from collections import defaultdict
  n = len(nums)
  count = defaultdict(int)
  position = defaultdict(list)
  for idx, num in enumerate(nums):
     count[num] += 1
     position[num].append(idx)
  result = 0
  for num in count:
     freq = count[num]
     indices = position[num]
     for i in range(len(indices)):
       for j in range(i + 1, len(indices)):
          if (indices[i] * indices[j]) % k == 0:
            result += 1
  return result
nums1 = [3, 1, 2, 2, 2, 1, 3]
k1 = 2
print(count_pairs(nums1, k1))
nums2 = [1, 2, 3, 4]
k2 = 1
print(count_pairs(nums2, k2))
OUTPUT:
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TIME COMPLEXITY: O( n^2)