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4. 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
       Explanation:
       There are 4 pairs that meet all the requirements:
       - nums[0] == nums[6], and 0 * 6 == 0, which is divisible by 2.
       - nums[2] == nums[3], and 2 * 3 == 6, which is divisible by 2.
       - nums[2] == nums[4], and 2 * 4 == 8, which is divisible by 2.
       - nums[3] == nums[4], and 3 * 4 == 12, which is divisible by 2.
       Example 2:
       Input: nums = [1,2,3,4], k = 1
       Output: 0
       Explanation: Since no value in nums is repeated, there are no pairs (i,j) that meet all
       the requirements.
A. Program:
         def countPairs(nums, k):
  n = len(nums)
  count = 0
  frequency_map = {}
  # Step 1: Build frequency map of elements in nums
  for num in nums:
    if num in frequency map:
       frequency_map[num] += 1
       frequency_map[num] = 1
  for i in range(n):
    for j in range(i + 1, n):
       if nums[i] == nums[j]:
         if (i * j) % k == 0:
            count += 1
  return count
nums = [3, 1, 2, 2, 2, 1, 3]
print(countPairs(nums, k)) # Output: 4
Output:
 4
=== Code Execution Successful ===
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Timecomplexity: O(n^2)