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1885. Count Pairs in Two Arrays Premium
Medium ♥ Topics ② Companies ۞ Hint
Given two integer arrays nums1 and nums2 of length n, count the pairs of indices (i, j) such that i < j and nums1[i] + nums1[j] > nums2[i] + nums2[j].
Return the number of pairs satisfying the condition.
Example 1:
  Input: nums1 = [2,1,2,1], nums2 = [1,2,1,2]
  Output: 1
  Explanation: The pairs satisfying the condition are:
  -(0, 2) where 2 + 2 > 1 + 1.
Example 2:
  Input: nums1 = [1,10,6,2], nums2 = [1,4,1,5]
  Output: 5
  Explanation: The pairs satisfying the condition are:
  -(0, 1) where 1 + 10 > 1 + 4.
  - (0, 2) where 1 + 6 > 1 + 1.
  -(1, 2) where 10 + 6 > 4 + 1.
  -(1, 3) where 10 + 2 > 4 + 5.
  - (2, 3) where 6 + 2 > 1 + 5.
Constraints:

    n == nums1.length == nums2.length

• 1 <= n <= 10<sup>5</sup>
• 1 <= nums1[i], nums2[i] <= 10<sup>5</sup>
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Yes No
               Submissions 18.2K Acceptance Rate 60.5%
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O Hint 1
   We can write it as nums1[i] - nums2[i] > nums2[j] - nums1[j] instead of nums1[i] + nums1[j] > nums2[i] + nums2[j].
O Hint 2
   Store nums1[idx] - nums2[idx] in a data structure.
O Hint 3
   Store nums2[idx] - nums1[idx] in a different data structure.
O Hint 4
   For each integer in the first data structure, count the number of the strictly smaller integers in the second data structure with a larger index in the original array.
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