

Problem 1885: Count Pairs in Two Arrays

Problem Information

Difficulty: Medium

Acceptance Rate: 60.30%

Paid Only: Yes

Tags: Array, Two Pointers, Binary Search, Sorting

Problem Description

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 <= 105` * `1 <= nums1[i], nums2[i] <= 105`

Code Snippets

C++:

```
class Solution {  
public:  
    long long countPairs(vector<int>& nums1, vector<int>& nums2) {  
  
    }  
};
```

Java:

```
class Solution {  
public long countPairs(int[] nums1, int[] nums2) {  
  
}  
}
```

Python3:

```
class Solution:  
    def countPairs(self, nums1: List[int], nums2: List[int]) -> int:
```