

# 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:
```