

Problem 2563: Count the Number of Fair Pairs

Problem Information

Difficulty: Medium

Acceptance Rate: 52.75%

Paid Only: No

Tags: Array, Two Pointers, Binary Search, Sorting

Problem Description

Given a **0-indexed** integer array `nums` of size `n` and two integers `lower` and `upper`, return `_` the number of fair pairs.

A pair `(i, j)` is **fair** if:

`0 ≤ i < j < n`, and `lower ≤ nums[i] + nums[j] ≤ upper`

Example 1.

Input: `nums = [0,1,7,4,4,5]`, `lower = 3`, `upper = 6` **Output:** 6 **Explanation:** There are 6 fair pairs: (0,3), (0,4), (0,5), (1,3), (1,4), and (1,5).

Example 2.

Input: `nums = [1,7,9,2,5]`, `lower = 11`, `upper = 11` **Output:** 1 **Explanation:** There is a single fair pair: (2,3).

Constraints:

`1 ≤ nums.length ≤ 105`
`1 ≤ nums.length == n`
`-109 ≤ nums[i] ≤ 109`
`-109 ≤ lower ≤ upper ≤ 109`

Code Snippets

C++:

```
class Solution {  
public:  
    long long countFairPairs(vector<int>& nums, int lower, int upper) {  
  
    }  
};
```

Java:

```
class Solution {  
    public long countFairPairs(int[] nums, int lower, int upper) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def countFairPairs(self, nums: List[int], lower: int, upper: int) -> int:
```