2367. Number of Arithmetic Triplet

1 Info

Difficulty: Easy

Topics: Array, Hash Table, Two Pointers, Enumeration, Binary Search

Leetcode: 2367. Number of Arithmetic Triplet

You are given a **0-indexed**, **strictly increasing** integer array nums and a positive integer diff. A triplet (i, j, k) is an **arithmetic triplet** if the following conditions are met:

```
• i < j < k,
```

- nums[j] nums[i] == diff, and
- nums[k] nums[j] == diff.

Return the number of unique arithmetic triplets.

!≡ Example 1:

Input: nums = [0,1,4,6,7,10], diff = 3

Output: 2

Explanation:

(1, 2, 4) is an arithmetic triplet because both 7 - 4 == 3 and 4 - 1 == 3.

(2, 4, 5) is an arithmetic triplet because both 10 - 7 == 3 and 7 - 4 == 3.

Input: nums = [4,5,6,7,8,9], diff = 2

Output: 2

Explanation:

(0, 2, 4) is an arithmetic triplet because both 8 - 6 == 2 and 6 - 4 == 2.

(1, 3, 5) is an arithmetic triplet because both 9 - 7 == 2 and 7 - 5 == 2.

Constraints:

```
• 3 <= nums.length <= 200
```

• nums is strictly increasing.