

# Problem 2475: Number of Unequal Triplets in Array

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 73.00%

**Paid Only:** No

**Tags:** Array, Hash Table, Sorting

## Problem Description

You are given a \*\*0-indexed\*\* array of positive integers `nums`. Find the number of triplets `(i, j, k)` that meet the following conditions:

\* `0 <= i < j < k < nums.length` \* `nums[i]`, `nums[j]`, and `nums[k]` are \*\*pairwise distinct\*\*. \* In other words, `nums[i] != nums[j]`, `nums[i] != nums[k]`, and `nums[j] != nums[k]`.

Return \_the number of triplets that meet the conditions.\_

**Example 1:**

**Input:** nums = [4,4,2,4,3] **Output:** 3 **Explanation:** The following triplets meet the conditions: - (0, 2, 4) because 4 != 2 != 3 - (1, 2, 4) because 4 != 2 != 3 - (2, 3, 4) because 2 != 4 != 3 Since there are 3 triplets, we return 3. Note that (2, 0, 4) is not a valid triplet because 2 > 0.

**Example 2:**

**Input:** nums = [1,1,1,1,1] **Output:** 0 **Explanation:** No triplets meet the conditions so we return 0.

**Constraints:**

\* `3 <= nums.length <= 100` \* `1 <= nums[i] <= 1000`

## Code Snippets

### C++:

```
class Solution {  
public:  
    int unequalTriplets(vector<int>& nums) {  
  
    }  
};
```

### Java:

```
class Solution {  
    public int unequalTriplets(int[] nums) {  
  
    }  
}
```

### Python3:

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