

2475. Number of Unequal Triplets in Array

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`

