

Problem 2475: Number of Unequal Triplets in Array

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

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:

$0 \leq i < j < k < \text{nums.length}$

$\text{nums}[i]$

,

$\text{nums}[j]$

, and

$\text{nums}[k]$

are

pairwise distinct

.

In other words,

$\text{nums}[i] \neq \text{nums}[j]$

,

$\text{nums}[i] \neq \text{nums}[k]$

, and

$\text{nums}[j] \neq \text{nums}[k]$

.

Return

the number of triplets that meet the conditions.

Example 1:

Input:

$\text{nums} = [4, 4, 2, 4, 3]$

Output:

3

Explanation:

The following triplets meet the conditions: - (0, 2, 4) because $4 \neq 2 \neq 3$ - (1, 2, 4) because $4 \neq 2 \neq 3$ - (2, 3, 4) because $2 \neq 4 \neq 3$ 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:
```

Python:

```
class Solution(object):  
    def unequalTriplets(self, nums):  
        """  
        :type nums: List[int]  
        :rtype: int  
        """
```

JavaScript:

```
/**  
 * @param {number[]} nums  
 * @return {number}  
 */  
var unequalTriplets = function(nums) {  
  
};
```

TypeScript:

```
function unequalTriplets(nums: number[]): number {  
  
};
```

C#:

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

C:

```
int unequalTriplets(int* nums, int numssSize) {  
  
}
```

Go:

```
func unequalTriplets(nums []int) int {  
    }  
}
```

Kotlin:

```
class Solution {  
    fun unequalTriplets(nums: IntArray): Int {  
        }  
        }  
}
```

Swift:

```
class Solution {  
    func unequalTriplets(_ nums: [Int]) -> Int {  
        }  
        }  
}
```

Rust:

```
impl Solution {  
    pub fn unequal_triplets(nums: Vec<i32>) -> i32 {  
        }  
        }  
}
```

Ruby:

```
# @param {Integer[]} nums  
# @return {Integer}  
def unequal_triplets(nums)  
  
end
```

PHP:

```
class Solution {  
  
    /**
```

```
* @param Integer[] $nums
* @return Integer
*/
function unequalTriplets($nums) {
}

}
```

Dart:

```
class Solution {
int unequalTriplets(List<int> nums) {
}

}
```

Scala:

```
object Solution {
def unequalTriplets(nums: Array[Int]): Int = {
}

}
```

Elixir:

```
defmodule Solution do
@spec unequal_triplets(nums :: [integer]) :: integer
def unequal_triplets(nums) do

end
end
```

Erlang:

```
-spec unequal_triplets(Nums :: [integer()]) -> integer().
unequal_triplets(Nums) ->
.
```

Racket:

```
(define/contract (unequal-triplets nums)
  (-> (listof exact-integer?) exact-integer?))
)
```

Solutions

C++ Solution:

```
/*
 * Problem: Number of Unequal Triplets in Array
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

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

    }
};
```

Java Solution:

```
/**
 * Problem: Number of Unequal Triplets in Array
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

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

    }
}
```

```
}
```

Python3 Solution:

```
"""
Problem: Number of Unequal Triplets in Array
Difficulty: Easy
Tags: array, hash, sort

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class Solution:

    def unequalTriplets(self, nums: List[int]) -> int:
        # TODO: Implement optimized solution
        pass
```

Python Solution:

```
class Solution(object):

    def unequalTriplets(self, nums):
        """
        :type nums: List[int]
        :rtype: int
        """
```

JavaScript Solution:

```
/**
 * Problem: Number of Unequal Triplets in Array
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/**
```

```
* @param {number[]} nums
* @return {number}
*/
var unequalTriplets = function(nums) {
};
```

TypeScript Solution:

```
/** 
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 * Difficulty: Easy
 * Tags: array, hash, sort
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function unequalTriplets(nums: number[]): number {
};
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C# Solution:

```
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 * Tags: array, hash, sort
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 */

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

C Solution:

```
/*
 * Problem: Number of Unequal Triplets in Array
 * Difficulty: Easy
 * Tags: array, hash, sort
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int unequalTriplets(int* nums, int numSize) {

}
```

Go Solution:

```
// Problem: Number of Unequal Triplets in Array
// Difficulty: Easy
// Tags: array, hash, sort
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
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func unequalTriplets(nums []int) int {

}
```

Kotlin Solution:

```
class Solution {
    fun unequalTriplets(nums: IntArray): Int {
        }

    }
}
```

Swift Solution:

```
class Solution {
    func unequalTriplets(_ nums: [Int]) -> Int {
```

```
}
```

```
}
```

Rust Solution:

```
// Problem: Number of Unequal Triplets in Array
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impl Solution {
    pub fn unequal_triplets(nums: Vec<i32>) -> i32 {
        }

    }
}
```

Ruby Solution:

```
# @param {Integer[]} nums
# @return {Integer}
def unequal_triplets(nums)

end
```

PHP Solution:

```
class Solution {

    /**
     * @param Integer[] $nums
     * @return Integer
     */
    function unequalTriplets($nums) {

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}
```

Dart Solution:

```
class Solution {  
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object Solution {  
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defmodule Solution do  
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