

# 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:

$3 \leq \text{nums.length} \leq 100$

$1 \leq \text{nums}[i] \leq 1000$

## 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 numsSize) {

}
```

**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
 * 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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 */

/**
```



```

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

};

```

### TypeScript 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
 */

function unequalTriplets(nums: number[]): number {

};

```

### 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
 */

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

    }
}

```

### 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)
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 */

int unequalTriplets(int* nums, int numsSize) {

}
```

### 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)
// Space Complexity: O(n) for hash map

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  
// 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  
  
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) {  
  
    }  
}
```

### Dart Solution:

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

### Scala Solution:

```
object Solution {  
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defmodule Solution do  
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-spec unequal_triplets(Nums :: [integer()]) -> integer().  
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