

# Problem 3591: Check if Any Element Has Prime Frequency

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 62.33%

**Paid Only:** No

**Tags:** Array, Hash Table, Math, Counting, Number Theory

## Problem Description

You are given an integer array `nums`.

Return `true` if the frequency of any element of the array is **prime**, otherwise, return `false`.

The **frequency** of an element `x` is the number of times it occurs in the array.

A prime number is a natural number greater than 1 with only two factors, 1 and itself.

**Example 1:**

**Input:** nums = [1,2,3,4,5,4]

**Output:** true

**Explanation:**

4 has a frequency of two, which is a prime number.

**Example 2:**

**Input:** nums = [1,2,3,4,5]

**Output:** false

**\*\*Explanation:\*\***

All elements have a frequency of one.

**\*\*Example 3:\*\***

**\*\*Input:\*\*** nums = [2,2,2,4,4]

**\*\*Output:\*\*** true

**\*\*Explanation:\*\***

Both 2 and 4 have a prime frequency.

**\*\*Constraints:\*\***

\* `1 <= nums.length <= 100` \* `0 <= nums[i] <= 100`

## Code Snippets

**C++:**

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

**Java:**

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

**Python3:**

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