

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:
```