

# Problem 3115: Maximum Prime Difference

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 58.07%

**Paid Only:** No

**Tags:** Array, Math, Number Theory

## Problem Description

You are given an integer array `nums`.

Return an integer that is the \*\*maximum\*\* distance between the \*\*indices\*\* of two (not necessarily different) prime numbers in `nums` \_.\_

**Example 1:**

**Input:** nums = [4,2,9,5,3]

**Output:** 3

**Explanation:** `nums[1]`, `nums[3]`, and `nums[4]` are prime. So the answer is `|4 - 1| = 3`.

**Example 2:**

**Input:** nums = [4,8,2,8]

**Output:** 0

**Explanation:** `nums[2]` is prime. Because there is just one prime number, the answer is `|2 - 2| = 0`.

**Constraints:**

```
* `1 <= nums.length <= 3 * 105` * `1 <= nums[i] <= 100` * The input is generated such that the  
number of prime numbers in the `nums` is at least one.
```

## Code Snippets

### C++:

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

### Java:

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

### Python3:

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