# 3618. Split Array by Prime Indices

Solved

Medium ♥ Topics ♠ Hint

You are given an integer array nums.

Split nums into two arrays A and B using the following rule:

- Elements at **prime** indices in nums must go into array A.
- All other elements must go into array B.

Return the **absolute** difference between the sums of the two arrays: |sum(A) - sum(B)|.

Note: An empty array has a sum of 0.

### Example 1:

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

Output: 1

### **Explanation:**

- The only prime index in the array is 2, so nums[2] = 4 is placed in array A.
- The remaining elements, nums[0] = 2 and nums[1] = 3 are placed in array B.
- sum(A) = 4, sum(B) = 2 + 3 = 5.
- The absolute difference is |4 5| = 1.

#### Example 2:

**Input:** nums = [-1,5,7,0]

Output: 3

## **Explanation:**

- The prime indices in the array are 2 and 3, so nums[2] = 7 and nums[3] = 0 are placed in array A.
- The remaining elements, nums[0] = -1 and nums[1] = 5 are placed in array B.
- sum(A) = 7 + 0 = 7, sum(B) = -1 + 5 = 4.
- The absolute difference is |7 4| = 3.

#### **Constraints:**

- 1 <= nums.length <= 10<sup>5</sup>
- -10<sup>9</sup> <= nums[i] <= 10<sup>9</sup>

Seen this question in a real interview before? 1/5

Yes No

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Topics	~
Array Math Number Theory Biweekly Contest 161	
Hint 1	~
Hint 2	~
Discussion (14)	V

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