

# Problem 2170: Minimum Operations to Make the Array Alternating

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 35.03%

**Paid Only:** No

**Tags:** Array, Hash Table, Greedy, Counting

## Problem Description

You are given a **0-indexed** array `nums` consisting of `n` positive integers.

The array `nums` is called **alternating** if:

$\text{nums}[i - 2] == \text{nums}[i]$ , where  $2 \leq i \leq n - 1$ .  $\text{nums}[i - 1] \neq \text{nums}[i]$ , where  $1 \leq i \leq n - 1$ .

In one **operation**, you can choose an index `i` and **change** `nums[i]` into **any** positive integer.

Return the minimum number of operations required to make the array alternating.

**Example 1:**

**Input:** `nums = [3,1,3,2,4,3]` **Output:** 3 **Explanation:** One way to make the array alternating is by converting it to `[3,1,3,1,3,1]`. The number of operations required in this case is 3. It can be proven that it is not possible to make the array alternating in less than 3 operations.

**Example 2:**

**Input:** `nums = [1,2,2,2,2]` **Output:** 2 **Explanation:** One way to make the array alternating is by converting it to `[1,2,1,2,1]`. The number of operations required in this case is 2. Note that the array cannot be converted to `[1,2,2,2,2]` because in this case `nums[0] == nums[1]` which violates the conditions of an alternating array.

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

`*`1` <= nums.length <= 105` *`1` <= nums[i] <= 105``

## Code Snippets

### C++:

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

### Java:

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

### Python3:

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