

# Problem 2422: Merge Operations to Turn Array Into a Palindrome

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 68.85%

**Paid Only:** Yes

**Tags:** Array, Two Pointers, Greedy

## Problem Description

You are given an array `nums` consisting of **positive** integers.

You can perform the following operation on the array **any** number of times:

\* Choose any two **adjacent** elements and **replace** them with their **sum**. \* For example, if `nums = [1,2,3,1]`, you can apply one operation to make it `[1,5,1]`.

Return **the minimum** number of operations needed to turn the array into a **palindrome**.

**Example 1:**

**Input:** `nums = [4,3,2,1,2,3,1]` **Output:** 2 **Explanation:** We can turn the array into a palindrome in 2 operations as follows: - Apply the operation on the fourth and fifth element of the array, `nums` becomes equal to `[4,3,2,3,1]`. - Apply the operation on the fifth and sixth element of the array, `nums` becomes equal to `[4,3,2,3,4]`. The array `[4,3,2,3,4]` is a palindrome. It can be shown that 2 is the minimum number of operations needed.

**Example 2:**

**Input:** `nums = [1,2,3,4]` **Output:** 3 **Explanation:** We do the operation 3 times in any position, we obtain the array `[10]` at the end which is a palindrome.

**Constraints:**

```
*`1 <= nums.length <= 105` *`1 <= nums[i] <= 106`
```

## 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:
```