

# Problem 905: Sort Array By Parity

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 76.37%

**Paid Only:** No

**Tags:** Array, Two Pointers, Sorting

## Problem Description

Given an integer array `nums`, move all the even integers at the beginning of the array followed by all the odd integers.

Return `any array` that satisfies this condition.

**Example 1:**

**Input:** `nums = [3,1,2,4]` **Output:** `[2,4,3,1]` **Explanation:** The outputs `[4,2,3,1]`, `[2,4,1,3]`, and `[4,2,1,3]` would also be accepted.

**Example 2:**

**Input:** `nums = [0]` **Output:** `[0]`

**Constraints:**

`1 <= nums.length <= 5000` `0 <= nums[i] <= 5000`

## Code Snippets

**C++:**

```
class Solution {
public:
    vector<int> sortArrayByParity(vector<int>& nums) {
```

```
}  
};
```

### Java:

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

### Python3:

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