905. Sort Array By Parity

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`
- ```
  nums.sort(key=lambda x: x%2)
          return nums
          #Method:2
          i = 0
          j = len(nums)-1
          while i<j:
              val1 = nums[i]
              val2 = nums[j]
              if val1%2!=0 and val2%2==0:
                  nums[i],nums[j] = nums[j],nums[i]
                  i = i+1
                  j = j-1
              elif val1%2!=0 and val2%2!=0:
                  j = j-1
              elif val1%2==0 and val2%2==0:
                  i = i+1
              elif val1%2==0 and val2%2!=0:
                  i = i+1
  ```
  ```

```
                j = j-1
        return nums
```