9. Given an array of integers nums, half of the integers in nums are odd, and the other half are even.

```
def partition_even_odd(nums):
  left = 0
  right = len(nums) - 1
  while left < right:
     while left < right and nums[left] % 2 == 0:
       left += 1
         while left < right and nums[right] % 2 != 0:
       right -= 1
         if left < right:
       nums[left], nums[right] = nums[right], nums[left]
       left += 1
       right -= 1
  return nums
nums = [3, 6, 12, 7, 9, 4, 10, 5]
sorted_nums = partition_even_odd(nums)
print(sorted_nums)
       [10, 6, 12, 4, 9, 7, 3, 5]
       === Code Execution Successful ===
TIME COMPLEXITY:-O(n)
```