10. Sort the array so that whenever nums[i] is odd, i is odd, and whenever nums[i] is even, i is even. Return any answer array that satisfies this condition.

```
def sort_array(nums):
  even\_index = 0
  odd_index = 1
  while even_index < len(nums) and odd_index < len(nums):
    while even_index < len(nums) and nums[even_index] % 2 == 0:
      even_index += 2
         while odd_index < len(nums) and nums[odd_index] % 2 == 1:
      odd_index += 2
         if even_index < len(nums) and odd_index < len(nums):
      nums[even_index], nums[odd_index] = nums[odd_index], nums[even_index]
         even_index += 2
    odd_index += 2
  return nums
nums = [4, 2, 5, 7]
result = sort_array(nums)
print(result)
output: === Code Execution Successful ===
TIME COMPLEXITY:-O(n)
```