Problem 280: Wiggle Sort

Problem Information

Difficulty: Medium
Acceptance Rate: 68.35%
Paid Only: Yes
Tags: Array, Greedy, Sorting

Problem Description

Given an integer array `nums`, reorder it such that `nums[0] <= nums[1] >= nums[2] <= nums[3]...`.

You may assume the input array always has a valid answer.

Example 1:

Input: nums = [3,5,2,1,6,4] **Output:** [3,5,1,6,2,4] **Explanation:** [1,6,2,5,3,4] is also accepted.

Example 2:

Input: nums = [6,6,5,6,3,8] **Output:** [6,6,5,6,3,8]

Constraints:

* `1 <= nums.length <= 5 * 104` * `0 <= nums[i] <= 104` * It is guaranteed that there will be an answer for the given input `nums`.

Follow up: Could you solve the problem in `O(n)` time complexity?

Code Snippets

C++:

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

}
};
```

Java:

```
class Solution {
public void wiggleSort(int[] nums) {

}
}
```

Python3:

```
class Solution:
def wiggleSort(self, nums: List[int]) -> None:
"""
Do not return anything, modify nums in-place instead.
"""
```