Problem 324: Wiggle Sort II

Problem Information

Difficulty: Medium
Acceptance Rate: 36.40%
Paid Only: No
Tags: Array, Divide and Conquer, Greedy, Sorting, Quickselect

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

Example 2:

Input: nums = [1,3,2,2,3,1] **Output:** [2,3,1,3,1,2]

Constraints:

* `1 <= nums.length <= 5 * 104` * `0 <= nums[i] <= 5000` * It is guaranteed that there will be an answer for the given input `nums`.

Follow Up: Can you do it in `O(n)` time and/or **in-place** with `O(1)` extra space?

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.
"""
```