

## 280. Wiggle Sort

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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?

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