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?