```
class Solution {
    public void wiggleSort(int[] nums) {
        int[] res = new int[nums.length];
        for (int i = 0; i < nums.length; i += 1){
            res[i] = nums[i];
        }
        Arrays.sort(res);
        int mid = (nums.length - 1) / 2;
        int end = nums.length-1;

        for (int i = 0; i < nums.length; i += 1) {
            if (i % 2 == 0) {
                nums[i] = res[mid--];
            } else {
                nums[i] = res[end--];
            }
        }
    }
}
```

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

Example 1:

```
Input: nums = [1, 5, 1, 1, 6, 4]
Output: One possible answer is [1, 4, 1, 5, 1, 6].
```

Example 2:

```
Input: nums = [1, 3, 2, 2, 3, 1]
Output: One possible answer is [2, 3, 1, 3, 1, 2].
```