280. Wiggle Sort

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

Input: `nums = [3,5,2,1,6,4]` **Output:** One possible answer is [3,5,1,6,2,4]

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When i is odd, nums[i] >= nums[i-1]

When i is an even number, nums[i] <= nums[i-1]

According to its parity, compare it with its corresponding condition, and if it doesn’t match, just swap the position with the previous number.

```java
public class Wiggle_Sort {


    public class Solution {

        public void wiggleSort(int[] nums) {
            if (nums.length <= 1) {
                return;
            }
            for (int i = 1; i < nums.length; ++i) {
                if (    (i % 2 == 1 && nums[i] < nums[i - 1])
                        || (i % 2 == 0 && nums[i] > nums[i - 1])
                    ) {

                    swap(nums, i, i - 1);
                }
            }
        }
    }
```