239. Sliding Window Maximum

You are given an array of integers nums, there is a sliding window of size k which is moving from the very left of the array to the very right. You can only see the k numbers in the window. Each time the sliding window moves right by one position.

Return the max sliding window.

Example 1:

```
Input: nums = [1,3,-1,-3,5,3,6,7], k = 3
Output: [3,3,5,5,6,7]
Explanation:
Window position
                          Max
[1 3 -1] -3 5 3 6 7
                          3
1 [3 -1 -3] 5 3 6 7
                          3
1 3 [-1 -3 5] 3 6 7
                          5
1 3 -1 [-3 5 3] 6 7
                           5
1 3 -1 -3 [5 3 6] 7
                           6
1 3 -1 -3 5 [3 6 7]
                           7
```

Example 2:

```
Input: nums = [1], k = 1
Output: [1]
```

Constraints:

```
    1 <= nums.length <= 10<sup>5</sup>
    -10<sup>4</sup> <= nums[i] <= 10<sup>4</sup>
```

• 1 <= k <= nums.length