

## 239. Sliding Window Maximum

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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. 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 <= 105`
- `-104 <= nums[i] <= 104`
- `1 <= k <= nums.length`

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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 Hint 1

 Hint 2

 Hint 3

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