

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.

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
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[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`

Accepted **1M** | Submissions **2.2M** | Acceptance Rate **46.6%**