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Problem 4: Given an array of integers arr, 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 byone position. Return the **max sliding window**

from collections import deque

```
def max sliding window(arr, k):result = []
  window = deque()
  for i in range(len(arr)):
     if window and window[0] <= i - k:
       window.popleft()
     while window and arr[window[-1]] <= arr[i]:
       window.pop()
     window.append(i) if i
     >= k - 1:
       result.append(arr[window[0]])
  return result
arr = [4, 0, -1, 3, 5, 3, 6, 8]
k = 3
```

print(max_sliding_window(arr, k))

