```
#15 Days of Coding Challenge
#Day 7
Sliding window maximum
#Leetcode 239
Solution:
class Solution {
public:
  vector<int> maxSlidingWindow(vector<int>& nums, int k) {
     int n=nums.size();
     vector<int> ans;
     deque<int> dq;
     for(int i=0;i< n;i++){
       if(!dq.empty() && dq.front()<=i-k) dq.pop_front();</pre>
       while(!dq.empty() && nums[dq.back()]<=nums[i]) dq.pop_back();</pre>
       dq.push_back(i);
       if(i>=k-1) ans.push_back(nums[dq.front()]);
     }
     return ans;
  }
};
Time Complexity: O(n)
Space Complexity: O(k)
```