**Step 1:-Understand the problem**

1. Can we restate the problem in our own words?

We will have to find the maximum value in the sub array of the given particular sub-array of given size

1. What are the inputs that go into the problem?

Array/List

1. What are the outputs that come from the problem?

Array/List

1. Can the outputs be determined from the inputs? In other words do we have enough information to solve this problem?

Yes

1. What should I label the important piece of data that are the part of a problem?

Start 🡪 for the initial pointer.

End 🡪 for the end pointer.

Max 🡪 for the maximum of the sub-array.

**Step 2:-Explore examples**

1. Start with simple example.
2. **Input:**
3. N = 9, K = 3
4. arr[] = 1 2 3 1 4 5 2 3 6
5. **Output:**
6. 3 3 4 5 5 5 6
7. **Explanation:**
8. 1st contiguous subarray = {1 2 3} Max = 3
9. 2nd contiguous subarray = {2 3 1} Max = 3
10. 3rd contiguous subarray = {3 1 4} Max = 4
11. 4th contiguous subarray = {1 4 5} Max = 5
12. 5th contiguous subarray = {4 5 2} Max = 5
13. 6th contiguous subarray = {5 2 3} Max = 5
14. 7th contiguous subarray = {2 3 6} Max = 6

2. Progress to more complex examples.

This consists of time when there is no maximum value and then we will have to consider the whole subset.

3. Explore examples with empty

4. Explore the examples with invalid inputs

**Step 3:-Break it down**

**Step 4:-Solve/Simplify**

* Find the core difficulty.

How to find the answer when the max pops out and you have no answer in the

* Temporarily ignore that difficulty.
* Write a simplified solution
* Then incorporate that difficulty

I re-checked the whole sub-list instead of creating a new list because I felt that this saves more time

**Step 5:-Look back refractor**

1. Can we check the result?
2. Can we drive the result differently?

Yes, I could have had used deque instead.

1. Can we understand it at a glance?

Yes

1. Can we use the result or method for some other problem?
2. Can you improve the performance of your solution?
3. How other people solve this problem?