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Clarusway



JS-CC-009: Sliding Window Maximum

Assignment Statement

• Time to put your newly learned skills to work!



- This is an interview question asked by Google.
- Given an array of integers and a number k, where 1 <= k <= length of the array, compute the maximum values of each subarray of length k.

Submit

• Students will push the solutions to their own public GitHub repos.

Learning Outcomes

At the end of the this coding challenge, students will be able to;

- Analyze a problem, identify and apply programming knowledge for appropriate solution.
- Demonstrate their knowledge of algorithmic design principles by using JavaScript and Python effectively.

Expected Outcome

For example;

```
given array = [10, 5, 2, 7, 8, 7] and k = 3, we should get: [10, 7, 8, 8], since: 10 = \max(10, 5, 2) 7 = \max(5, 2, 7) 8 = \max(2, 7, 8) 8 = \max(7, 8, 7)
```

Example 2;

```
Input: nums = [1,3,-1,-3,5,3,6,7], k = 3
Output: [3,3,5,5,6,7]
Explanation:
```

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Wi	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		

Problem Statement

- Make solution with JS
- Make solution with Python

□ Happy Coding
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