//https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-k3101/1

**Maximum of all subarrays of size k**

Given an array arr[] of size N and an integer K. Find the maximum for each and every contiguous subarray of size K.

**Example 1:**

**Input:**

N = 9, K = 3

arr[] = 1 2 3 1 4 5 2 3 6

**Output:**

3 3 4 5 5 5 6

**Explanation:**

1st contiguous subarray = {1 2 3} Max = 3

2nd contiguous subarray = {2 3 1} Max = 3

3rd contiguous subarray = {3 1 4} Max = 4

4th contiguous subarray = {1 4 5} Max = 5

5th contiguous subarray = {4 5 2} Max = 5

6th contiguous subarray = {5 2 3} Max = 5

7th contiguous subarray = {2 3 6} Max = 6

**Example 2:**

**Input:**

N = 10, K = 4

arr[] = 8 5 10 7 9 4 15 12 90 13

**Output:**

10 10 10 15 15 90 90

**Explanation:**

1st contiguous subarray = {8 5 10 7}, Max = 10

2nd contiguous subarray = {5 10 7 9}, Max = 10

3rd contiguous subarray = {10 7 9 4}, Max = 10

4th contiguous subarray = {7 9 4 15}, Max = 15

5th contiguous subarray = {9 4 15 12},

Max = 15

6th contiguous subarray = {4 15 12 90},

Max = 90

7th contiguous subarray = {15 12 90 13},

Max = 90

**Your Task:**  
You dont need to read input or print anything. Complete the function **max\_of\_subarrays()** which takes the array, N and K as input parameters and returns a list of integers denoting the maximum of every contiguous subarray of size K.

**Expected Time Complexity:** O(N)  
**Expected Auxiliary Space:** O(k)

**Constraints:**  
1 ≤ N ≤ 105  
1 ≤ K ≤ N  
0 ≤ arr[i] ≤ 107