# Count distinct elements in every window

Given an array of integers and a number K. Find the count of distinct elements in every window of size K in the array.

**Example 1:**

**Input:**

N = 7, K = 4

A[] = {1,2,1,3,4,2,3}

**Output:** 3 4 4 3

**Explanation:** Window 1 of size k = 4 is

1 2 1 3. Number of distinct elements in

this window are 3.

Window 2 of size k = 4 is 2 1 3 4. Number

of distinct elements in this window are 4.

Window 3 of size k = 4 is 1 3 4 2. Number

of distinct elements in this window are 4.

Window 4 of size k = 4 is 3 4 2 3. Number

of distinct elements in this window are 3.

**Example 2:**

**Input:**

N = 3, K = 2

A[] = {4,1,1}

**Output:** 2 1

**Your Task:**
Your task is to complete the function **countDistinct()** which takes the array A[], the size of the array(N) and the window size(K) as inputs and returns an array containing the count of distinct elements in every contiguous window of size K in the array A[].

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

**Constraints:**
$1 <= K <= N <= 10^5$
$1 <= A[i] <= 10^5$ , for each valid i