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 \le K \le N \le 10^5

1 \le A[i] \le 10^5, for each valid i
```

```
def countDistinct(self, arr, N, K):
    # Code here
    freq = {}
    for i in range(k):
```

```
freq[arr[i]] = freq.get(arr[i], 0) + 1
ans = []
j = 0
ans.append(len(freq))
for i in range(k, len(arr)):
    freq[arr[i]] = freq.get(arr[i], 0) + 1
    temp = arr[j]
    if freq[temp] == 1:
        del freq[temp]
    else:
        freq[temp] = freq[temp] - 1
    ans.append(len(freq))
    j = j + 1
return ans
```