

## Count distinct elements in every window

Difficulty: Easy

Accuracy: 41.83%

Submissions: 148K+

Points: 2

Given an integer array `arr[]` and a number `k`. Find the count of distinct elements in every window of size `k` in the array.

### Examples:

**Input:** `arr[] = [1, 2, 1, 3, 4, 2, 3]`, `k = 4`

**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.

**Input:** `arr[] = [4, 1, 1]`, `k = 2`

**Output:** `[2, 1]`

**Explanation:** Window 1 of size `k = 2` is 4 1. Number of distinct

1 // } Driver Code Ends

```
37 class Solution {
38     ArrayList<Integer> countDistinct(int arr[], int k) {
39         int count = 0;
40         int n = arr.length;
41         ArrayList<Integer> list = new ArrayList<>();
42         for(int i=0; i<=n-k; i++){
43             HashSet<Integer> set = new HashSet<>();
44             int j = i;
45
46             while(j < i+k){
47                 set.add(arr[j]);
48                 j++;
49             }
50             list.add(set.size());
51         }
52         return list;
53     }
54 }
55 }
```

[Custom Input](#)

Compile &amp; Run

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