**Count Distinct Element in Every K Size Window**

#include <bits/stdc++.h>

vector<int> countDistinctElements(vector<int> &arr, int k)

{

vector<int> ans;

unordered\_map<int,int> mp;

int n=arr.size();

int i=0,j=0;

while(j<n){

mp[arr[j]]++;

if(j-i+1<k){

j++;

continue;

}

if(j-i+1==k){

ans.push\_back(mp.size());

mp[arr[i]]--;

if(mp[arr[i]]==0){

mp.erase(arr[i]);

}

i++;

j++;

}

}

return ans;

}