# ADAlab Online Judge

♠ Home

## Problems

Contests

-/⊷ Status

■ Randx101109107 ▼

### ♠ About ∨

sliding your phone in some direction, your phone automatically capture each frame and merge them into a very long photo.



Usually people use this feature to take pictures of amazing views. However you are a student in data structure course, you are going to take pictures of an integer sequence. You see a beautiful long integer sequence  $a_1,a_2,\cdots,a_n$  and you know that at most k integers can stay in a single frame of your smartphone camera. You are curious about how many distinct integers are there in each frame.

In other words, given an integer sequence  $a_1, a_2, \dots, a_n$ , please output the number of distinct integers in each subarray with length k.

## Input

The first line contains two integers n and k.

The second line contains n integers  $a_1, a_2, \cdots, a_n$ .

#### Restrictions

- $1 < k < n < 10^6$
- ullet  $1 \leq a_i \leq 10^9$  for  $i=1,2,\cdots,n$

### Output

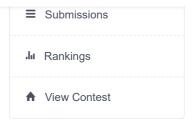
For each subarray with length k from the leftmost to the rightmost, please output the number of distinct integer in it.

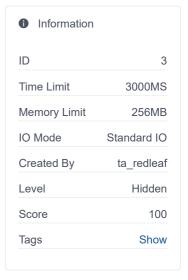
### Sample Input 1 🖹

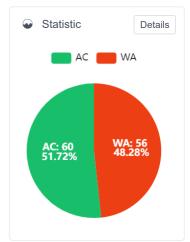


### Sample Output 1









<ul> <li>About ∨</li> <li>You have solved the problem</li> <li>Submit for Sample Test</li> <li>Submit</li> <li>Contest has ended</li> <li>Sample Test Input</li> <li>Sample Test Output</li> </ul>	ADAlab Online Judge	♠ Home	## Problems	▼ Contests	-⁄∿ Status	■ Ramb(101109107 ▼
• Contest has ended  Sample Test Input  Sample Test Output	<b>1</b> About ∨					
• Contest has ended  Sample Test Input  Sample Test Output						
• Contest has ended  Sample Test Input  Sample Test Output						
© Contest has ended  Sample Test Input  Sample Test Output						
• Contest has ended  Sample Test Input  Sample Test Output						
© Contest has ended  Sample Test Input  Sample Test Output						
© Contest has ended  Sample Test Input  Sample Test Output						
Sample Test Input  Sample Test Output	You have solved the problem			or Sample Test	Submit	
6 3	! Contest has ended					
	Sample Test Input		Sample Test (	Output		

ADAlab Online Judge
Powered by OnlineJudge Version: 20220706-3ff68