Question **1**

Correct

Marked out of 10.00

You are given an array of N integers, A1, A2 ,..., AN and an integer K. Return the of count of distinct numbers in all windows of size K.

Formally, return an array of size N-K+1 where i'th element in this array contains number of distinct elements in sequence Ai, Ai+1 ,..., Ai+k-1.

Note: If K > N, return empty array.

Input:

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

K = 3

Output:

[2, 3, 3, 2]

Explanation

All windows of size K are

[1, 2, 1]

[2, 1, 3]

[1, 3, 4]

[3, 4, 3]

For example:

Input	Result
1 1 1 1 1 1 4	1 1 1
7 9 9 -3 0 1 -6 -9 7 -7 4 2 -7 -7 -4 -1 8 1 -4 6 0 -4 -7 2 -2 -8 -3 4 4 3 4 0 4 6 0 -7 -9 -7 -4 1 4 6 2 -6 -6 -2 0 1 -4 7 3 7 -3 8 -6 2 -4 -6 9 3 8 -3 6 -3 -5 7 9 2 2 5 -3 9 -9 -4 3 5 3 4 -8 8 -9 -7 4 6 7 -4 8 1 5 -5 6 -7 6 2 -3 0 3 -5 5 -1 4	3 3 4 4 4 4 4 4 4 3 3 3 3 4 4 4 4 4 3 4 4 4 4 4 3 3 2 3 3 3 3 4 4 3 3 4 4 4 4 4 3 3 3 4 4 4 4 3 3 4 4 4 4 3 4 4 4 4 4 3 3 4 4 4 3 3 3 4 4 4 4 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 3 3 4 4 4 4 4 4

Answer: (penalty regime: 0 %)

```
 1  n=list(map(int,input().split()))
 2  n1=int(input())
 3  l=[]
 4  l1=[]
 5  for i in range(len(n) - n1+1):
 6      res=n[i:i+n1]
 7      for j in res:
 8          if j not in l:
 9              l.append(j)
10      l1.append(len(l))
11      l.clear()
12  print(" ".join(str(x) for x in l1))
13
14
```

	Input	Expected	Got	
✔	1 1 1 1 1 1 4	1 1 1	1 1 1	✔
✔	7 9 9 -3 0 1 -6 -9 7 -7 4 2 -7 -7 -4 -1 8 1 -4 6 0 -4 -7 2 -2 -8 -3 4 4 3 4 0 4 6 0 -7 -9 -7 -4 1 4 6 2 -6 -6 -2 0 1 -4 7 3 7 -3 8 -6 2 -4 -6 9 3 8 -3 6 -3 -5 7 9 2 2 5 -3 9 -9 -4 3 5 3 4 -8 8 -9 -7 4 6 7 -4 8 1 5 -5 6 -7 6 2 -3 0 3 -5 5 -1 4	3 3 4 4 4 4 4 4 4 3 3 3 3 4 4 4 4 3 4 4 4 4 4 4 3 3 2 3 3 3 3 4 4 3 3 4 4 4 4 3 3 3 4 4 4 3 3 4 4 4 4 3 4 4 4 4 3 3 4 4 4 3 3 3 4 4 4 4 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 3 3 4 4 4 4 4	3 3 4 4 4 4 4 4 4 3 3 3 3 4 4 4 4 4 4 3 4 4 4 4 4 4 3 3 2 3 3 3 3 4 4 3 4 4 4 4 4 3 3 3 4 4 4 4 3 3 4 4 4 4 3 4 4 4 4 4 4 3 3 4 4 4 3 3 3 4 4 4 4 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 3 3 4 4 4 4 4 4	✔

Passed all tests! ✔