


1. Program

Question 1

 Revisit Later

How to Attempt?

Decreasing sequence: Given an integer array, find the number of decreasing sequences in the array and the length of its longest decreasing sequence.

You are expected to complete the logic within the given function, where,

input1 represents the integer array and,

input2 represents the number of elements in the integer array

The function should set the **output1** variable to the number of decreasing sequences in the array, and set the **output2** variable to the length of the longest decreasing sequence in the array.

Example 1:

If **input1[]** = {11,3,1,4,7,8,12,2,3,7}

and **input2** = 10

output1 should be 2

output2 should be 3

Explanation:

In the given array **input1**, the decreasing sequences are "11,3,1" and "12,2", i.e. there are **two** decreasing sequences in the array, and so **output1** is assigned **2**. The first sequence i.e. "11,3,1" is the longer one containing **three** items, when compared to the second sequence "12,2" which contains 2 items. So, the length of the longest decreasing sequence **output2** = **3**.

Example 2:

If **input1[]** = {9}

and **input2** = 1

output1 should be 0

output2 should be 0

Example 3:

If **input1[]** = {12,51,100,212,15,12,7,3,57,300,312,78,19,100,102,101,99,74,0,-5}

and **input2** = 20

output1 should be 3

output2 should be 6

JAVA7

Compiler: Java - 1.7

```
4 // Read only region start
5 class UserMainCode
6 {
7
8     public class Result{
9         public final int output1;
10        public final int output2;
11
12        public Result(int out1, int out2){
13            output1 = out1;
14            output2 = out2;
15        }
16    }
17
18    public Result decreasingSeq(int[] input1,int input2){
19        // Read only region end
20        //Write code here...
21
22        int dcrCount = 0;
23        int longestLen = 0;
24        int spikeCount = 0;
25        boolean flag = false;
26
27        for (int i = 0; i < input2 - 1; i++) {
28            if (input1[i] > input1[i + 1]) {
29                if (flag == false) {
30                    flag = true;
31                    spikeCount++;
32                }
33
34                dcrCount++;
35                longestLen = dcrCount > longestLen ? dcrCount : longestLen;
36            } else {
37                if (flag == true) {
38                    flag = false;
39                    dcrCount = 0;
40                }
41            }
42        }
43    }
44 }
```

☐ Use Custom Input

Compile and Test

Submit Code

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Attempted: 1/1

Code Execution Code History

0/3 - Sample Test Cases Failed

✓ default3

CODE EXECUTION DETAILS

Time: 156 ms

Memory: 103812 kb

</> TEST CASE INFORMATION

Input

{12,51,100,212,15,12,7,3,57,300,312,78,19,100,102,101,99,74,0,-5},20

Expected Output

3,6

Actual Output

3,6

>_ CONSOLE OUTPUT

STANDARD ERROR/WARNING

None

✓ default2

✓ default

1. Program

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```
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
Attempted: 1/1  
if (!flag || true) {  
    flag = false;  
    dcrCount = 0;  
}  
  
if (spikeCount > 0) longestLen++;  
return new Result(spikeCount, longestLen);  
}
```

☐ Use Custom Input

Compile and Test

Submit Code

[Code Execution](#) [Code History](#)

0/6 - Graded Test Cases Failed

✓ TC 6

✓ TC 5

✓ TC 4

✓ TC 3

✓ TC 2

✓ TC 1