AQ5.5: Activity Question 5 - Not Graded

**This assignment will not be graded and is only for practice.**

**Question (1 - 3)**  
  
Let **L** be a list and  
  
1. **length(L)** returns the number of elements in **L**. For example **length**([1, 4, 6]) returns 3  
2. **first(L)** returns the first element of list **L**. For example **first**([1, 4, 6]) returns 1  
3. **rest(L)** returns a list after removing the first element of **L**. For example **rest**([1, 4, 6]) returns [4, 6]

Consider the given procedure.

1

Procedure isInOrder(L)

2

while(length(L) >= 2){

3

ele1 = first(L)

4

restList = rest(L)

5

ele2 = first(restList)

6

if(ele1 < ele2){

7

return(False)

8

}

9

L = restList

10

}

11

return(True)

12

End isInOrder

13

​

***1 point***

Let **Loi** be a list of positive integers, then **isInOrder**(**Loi**) will return True if:

Elements of **Loi** are in ascending order

Elements of **Loi** are in descending order

Elements of **Loi** are either in ascending or in descending order

Elements of **Loi** are neither in ascending nor in descending order

***1 point***

If the conditional statement in line 6 is replaced with

1

if(ele1 > ele2)

then **isInOrder**(**Loi**) will return True if:

Elements of **Loi** are in ascending order

Elements of **Loi** are in descending order

Elements of **Loi** are either in ascending or in descending order

Elements of **Loi** are neither in ascending nor in descending order

***1 point***

If the conditional statement in line 6 is replaced with

1

if(ele1 == ele2)

then **isInOrder**(**Loi**) will return True if:

Elements of **Loi** are in ascending order

Elements of **Loi** are in descending order

Elements of **Loi** are unique

Elements of **Loi** are equal