AQ5.6: Activity Question 6 - Not Graded

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

***1 point***

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

Consider the procedure given below.

1

Procedure isInOrder(L)

2

while(length(L) >= 2){

3

ele1 = last(L)

4

initialList = init(L)

5

ele2 = last(initialList)

6

if(ele1 < ele2){

7

return(False)

8

}

9

L = initialList

10

}

11

return(True)

12

End isInOrder

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

Elements of **marksList** are in ascending order

Elements of **marksList** are in descending order

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

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

***1 point***

Let **explode(W)** returns a list of characters of word **W** in the same order as they are in the word. For example **explode**("thinking") returns ['t', 'h', 'i', 'n', 'k', 'i', 'n', 'g']. Consider the procedure given below.

1

Procedure isPalindrome(W)

2

L = explode(W)

3

while(length(L) >= 2){

4

ele1 = first(L)

5

ele2 = last(L)

6

if(ele1 != ele2){

7

return(False)

8

}

9

L = init(rest(L))

10

}

11

return(True)

12

End isPalindrome

13

​

**isPalindrome**(**W**) will return True if:

**W** is a palindrome

**W** is a palindrome and letter count of **W** is odd

**W** is a palindrome and letter count of **W** is even

**W** is not a palindrome

***1 point***

Consider the procedure give below.

1

Procedure doSomething(W)

2

L = explode(W)

3

while(length(L) >= 2){

4

ele1 = first(L)

5

ele2 = last(L)

6

if(ele1 == ele2){

7

return(True)

8

}

9

L = init(rest(L))

10

}

11

return(False)

12

End doSomething

**doSomething**("thinking") will return:

TRUE

FALSE