AQ5.7: Activity Question 7 - Not Graded

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

The following pseudocode is executed using the "Scores" dataset.

1

pairList = []

2

while(Table 1 has more rows){

3

Read the first row X in Table 1

4

if(X.Mathematics > X.Physics){

5

pairList = pairList ++ [[X.Mathematics, X.Physics]]

6

}

7

else{

8

pairList = pairList ++ [[X.Physics, X.Mathematics]]

9

}

10

Move row X to Table 2

11

}

***1 point***

What will **first(first(pairList))** respresent at the end of the execution? It is a Multiple Select Question (MSQ).

Mathematics marks of the student in the first row of Table 1

Physics marks of the student in the first row of Table 1

Mathematics marks of the student in the first row of Table 1 if Mathematics marks of student is more than Physics marks

Physics marks of the student in the first row of Table 1 if the Physics marks of student is more than Mathematics marks

***1 point***

What will **first(first(pairList))** represent at the end of the execution if the Mathematics and Physics marks of the student in first row are same? It is a Multiple Select Question (MSQ).

Mathematics marks of the student in the first row of Table 1

Physics marks of the student in the first row of Table 1

Could be either Mathematics or Physics marks of the student in the first row of Table 1

Could be either Mathematics or Physics marks of the student in the last row of Table 1

***1 point***

What will be the value of **C** at the end of the execution of following pseudocode?

1

A = [1, 2, 3, 4, 5]

2

B = [5, 4, 3, 2, 1]

3

C = []

4

foreach x in A {

5

foreach y in B {

6

if(x-y == 2){

7

C = C ++ [[x, y]]

8

}

9

}

10

}

C = [[3, 1], [4, 2], [5, 3]]

C = [[5, 3], [4, 2], [3, 1]]

C = [[1, 3], [2, 4], [3, 5]]

C = [[1, 3], [2, 4], [3, 5], [3, 1], [4, 2], [5, 3]]

***1 point***

Let **L** be a list as shown below and **A** == 'F' be a True statement, then choose the correct options. It is a Multiple Select Question (MSQ).

1

L = [[2, 'M', "Chennai"], [4, 'F', "Madurai"], [11, 'M', "Bengaluru"], [10, 'F', "Chennai"]]

1

A = first(rest(first(rest(L))))

1

A = last(init(first(rest(L))))

1

A = first(rest(last(L)))

1

A = last(init(last(L)))

***1 point***

What will be the value of **idList** at the end of execution of following pseudocode?

1

L = [[2, 'M', "Chennai"], [4, 'F', "Madurai"], [11, 'M', "Bengaluru"], [10, 'F', "Chennai"]]

2

idList = []

3

while(length(L) > 1){

4

x = first(L)

5

M = rest(L)

6

while(length(M) > 0){

7

y = first(M)

8

if(last(x) != last(y) and first(rest(x)) != last(init(y))){

9

idList = idList ++ [[first(x), first(y)]]

10

}

11

M = rest(M)

12

}

13

L = rest(L)

14

}

**idList** = [[2, 4], [4, 11], [11, 10]]

**idList** = [[2, 4], [4, 11]]

**idList** = [[4, 11], [11, 10]]

**idList** = [[4, 11]]