Graded Assignment 3

Close

7) In the "Paragraph words" dataset, the procedure **CountLongNouns** counts the number of nouns that are longer than the average word length. Assume that the variable **Avg** holds the value of average word length. Choose the correct choice to complete the procedure. **5 points**

```
Procedure CountLongNouns()
while (Pile 1 has more rows) {
    Read the top card X from Pile 1
        **********************
        *      Fill the code      *
        **********************
    }
    Move X to Pile 2
}
```

○

```
if (X.LetterCount > Avg) {
    Count = Count + 1
}
```

○

```
if (X.PartOfSpeech == "Noun") {
    Count = Count + 1
}
```

○

```
if (X.LetterCount > Avg or X.PartOfSpeech == "Noun") {
    Count = Count + 1
}
```

◉

```
if (X.LetterCount > Avg and X.PartOfSpeech == "Noun") {
    Count = Count + 1
}
```

○ None of the above

2) The following pseudocode is executed using the "Scores" dataset. What will be the value of the variable **Z** at the end of the execution? [Note: Consider only two decimal places in all division operations.] ***4 points***

```
SumT = 0, SumM = 0, SumP = 0, SumC = 0
Count = 0
while (Pile 1 has more cards) {
    Read the top card X from Pile 1
    SumT = SumT + X.Total
    SumM = SumM + X.Mathematics
    SumP = SumP + X.Physics
    SumC = SumC + X.Chemistry
    Count = Count + 1
    Move X to Pile 2
}
A = SumT / Count
B = SumM / Count
C = SumP / Count
D = SumC / Count
Z = 0
if ((B + C + D) − A ≤ -1) {
    Z = -1
}
if ((B + C + D) − A ≥ 1) {
    Z = 1
}
```

- ○ -1
- ◉ 0
- ○ +1
- ○ None of the above

```
            SubC = SubC + 1
        }
        if (X.Physics < AvgP) {
            SubC = SubC + 1
        }
        if (X.Chemistry < AvgC) {
            SubC = SubC + 1
        }
        **********
        *   Fill the code   *
        **********
    }
    Move X to Table 2
}
```

○

```
if (SubC ≤ 1) {
    CountBA = CountBA + 1
}
```

○

```
if (SubC ≤ 1) {
    CountBA = 1
}
```

○

```
if (SubC == 1) {
    CountBA = 1
}
```

◉

```
if (SubC == 1) {
    CountBA = CountBA + 1
}
```

```
        A = A + 1
    }
    if (X.ShopName == "Big Bazaar" and X.TotalBillAmount > MBB) {
        B = B + 1
    }
    Move X to Pile 1
}
```

- **A** = Number of bills with total bill amount less than the average total bill amount
  B = Number of bills with total bill amount greater than the average total bill amount

- **A** = Number of bills from "Big Bazaar" with total bill amount greater than the average total bill amount of "Big Bazaar"
  B = Number of bills from "SV Stores" with total bill amount less than the average total bill amount of "SV Stores"

- **A** = Number of bills from "SV Stores" with total bill amount less than the average total bill amount of "SV Stores"
  B = Number of bills from "Big Bazaar" with total bill amount greater than the average total bill amount of "Big Bazaar"

- **A** = Number of bills with total bill amount greater than the average total bill amount
  B = Number of bills with total bill amount less than the average total bill amount

```
        if (X.TotalBillAmount < SecondT and X.TotalBillAmount > ThirdT) {
            ThirdT = X.TotalBillAmount
        }
        Move X to Pile 2
    }
    Count = 0
    while (Pile 2 has more cards) {
        Read the top card X from Pile 2
        **********************
        *      Fill the code      *
        **********************
        Move X to Pile 1
    }
```

○ if (X.TotalBillAmount < ThirdT) {
    Count = Count + 1
}

○
if (X.TotalBillAmount ≥ FirstT) {
    Count = Count + 1
}

○
if (X.TotalBillAmount > ThirdT) {
    Count = Count + 1
}

◉ if (X.TotalBillAmount ≥ ThirdT) {
    Count = Count + 1
}

○ None of the above

Graded Assignment 3

Clo

11) The following pseudocode is executed using the "Shopping bills" dataset. What will the values of **A**, **B** and **C** represent at the end of the execution? ***3 points***

```
A = 0, B = 0, C = 0
while (Pile 1 has more cards) {
    Read the top card X from Pile 1
    A, B, C = DoSomething(X, A, B, C)
    Move X to Pile 2
}

Procedure DoSomething(Y, A, B, C) {
    if (Y.ShopName == "SV Stores" and Y.TotalBillAmount > A) {
        A = Y.TotalBillAmount
    }
    if (Y.ShopName == "Big Bazaar" and Y.TotalBillAmount > B) {
        B = Y.TotalBillAmount
    }
    if (Y.ShopName == "Sun General" and Y.TotalBillAmount > C) {
        C = Y.TotalBillAmount
    }
    return ([A, B, C])
End DoSomething
```

- ○ Maximum total bill amount of each customer
- ◉ Maximum total bill amount of each shop
- ○ Shop name of the bill with maximum total bill amount
- ○ Maximum total bill amount