

## CSE 1321 Spring 2019 – Assignment 1 Template

Step 1: Read the Problem Solving Guide thoroughly. First, you have to understand the process. You must use this method to write the pseudocode for assignment 1 - pseudocode.

Step 2: Complete Assignment 1 - pseudocode based on the guide, use the following template to write your answers:

### **The problem:**

Problem 1- Write a pseudocode algorithm that performs the following:

- a) Read in 5 separate numbers from the user.
- b) Calculate the average of the five numbers.
- c) Find the smallest (minimum) and largest (maximum) of the five entered numbers.
- d) Write out the results found from steps b and c with a message describing what the results were.

### **Initial Plan:**

Have User enter numbers then have program divide the sum of the numbers by 5. Have program to pull out and print the integers with the minimum and max values to the screen.

### **Execution and Evaluation:**

BEGIN MAIN

PRINT "Please enter a number."

READ numOne

PRINT "Please enter another number."

READ numTwo

PRINT "Please enter a third number."

READ numThree

PRINT "Please enter yet another number."

READ numFour

PRINT "Please enter one last number."

READ numFive

PRINT "The average of the numbers that you entered is:", (numOne + numTwo + numThree + numFour + numFive)/5

PRINT "The largest number you entered was:", max(numOne, numTwo, numThree, numFour, numFive)

PRINT "The smallest number you entered was:", min(numOne, numTwo, numThree, numFour, numFive)

END MAIN

#### **Revised Plan:**

Create variable for average

#### **Execution and Evaluation:**

BEGIN MAIN

PRINT "Please enter a number."

READ numOne

PRINT "Please enter another number."

READ numTwo

PRINT "Please enter a third number."

READ numThree

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PRINT "Please enter yet another number."
READ numFour
PRINT "Please enter one last number."
READ numFive
average <- (numOne + numTwo + numThree + numFour + numFive)/5

PRINT "The average of the numbers that you entered is:", average
PRINT "The largest number you entered was:", max(numOne, numTwo, numThree, numFour, numFive)
PRINT "The smallest number you entered was:", min(numOne, numTwo, numThree, numFour, numFive)
```

Step 3: Complete the evaluation below:

Q1: Did the pseudocode exercise help you to understand the requirements and solve the problem faster?

- ☐ Yes
- ☐ No<-
- ☐ Other

Q2: Do you think that you could have fewer challenges with the assignments if this guide was introduced to you at the beginning of the semester?

- ☐ Yes
- ☐ No<-
- ☐ Other

Q3: What did you like about this pseudocode guide and the iterative method of solving problems?

Your Response: The problem was fine, the expectations just need to be clearly stated.

Q4: What can be improved about this pseudocode guide?

Your response: Teach the syntax that you expect out of pseudocode. .