CSE 1321 CSE 1321 Test 2 B

Rutvik Dhira Marakana

TOTAL POINTS

97/90

QUESTION 1

1 Output from For Loops 15 / 15

- + **0 pts** incorrect answer, output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- √ + 15 pts correct
- + **12 pts** correct numbers showing but your rows and columns are inverted i.e. row 1 should be column 1, row 2 should be column 2, row 3 should be column 3, and row 4 should be column 4. (-3pts)
- + **12 pts** correct numbers showing but your columns should be rows. i.e. column 1 should be row 1, column 2 should be row 2, column 3 should be row 3, and column 4 should be row 4. (-3pts)
- + **12 pts** one column too many, column 5 should not exist (-3pts)
- + **12 pts** one row too many, row 5 should not exist (-3pts)
- + **9 pts** missing a 4th column (-3pts) and missing a 4th row (-3pts). output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- + **12 pts** did not include the printline, should have 4 rows not 1 row
- + **3 pts** incorrect answer, output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- + 9 pts incorrect answer, the question asks for "exact" output, which should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0. Your output is not exact (-3pts) and has no new-lines (should have 4 separate lines of output (-3pts)).
- + **12 pts** too many printlines, should have 4 rows not 1 column (-3pts), output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- + **12 pts** correct numbers showing but your rows and columns are inverted. You should have a 4 x 4 matrix not one long row (-3pts). Correct output should

- be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- + 3 pts not showing "exact output" (-3pts). Also, missing a 4th column and missing a 4th row. output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0 (-6pts)
- + 9 pts missing a 4th row (-3pts). and did not include the printline, should have 4 rows not 1 row (-3pts). Correct output should be row 1: 0.12.3, row 2: -1.0.12, row 3: -2.10.1, row 4: -3.2.10.
- + **8 pts** missing a 4th column (-3pts) and missing a 4th row (-3pts). output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0. comma's should be tabs (-1pts).
- + 8 pts missing a 4th column (-3pts) and missing a 4th row (-3pts). Also, not showing "exact" output (-2 pts). Correct output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- + **12 pts** missing the 4th row (-3pts). Correct output should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0
- + 8 pts incorrect answer, the question asks for "exact" output, which should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0. Your output is not exact (-4pts) and has no new-lines (should have 4 separate lines of output (-3pts)).
- + **12 pts** one row too many, row 5 should not exist (-3pts). output, which should be row 1: 0 1 2 3, row 2: -1 0 1 2, row 3: -2 -1 0 1, row 4: -3 -2 -1 0.

QUESTION 2

- 2 Sum While Loop Pseudocode 15 / 15
 - √ + 1 pts variable declared to hold sum and initialized
 - √ + 3 pts WHILE used
 - √ + 1 pts END WHILE included
 - √ + 2 pts Correct condition for WHILE to continue

looping

- √ + 3 pts Correct update of sum inside of loop
- √ + 2 pts Incremented counter inside of loop
- $\sqrt{+3}$ pts Correct logic for if A > B to print out 0

QUESTION 3

3 myMethod Output 20 / 20

- √ + 5 pts Output 0 1 correctly
- + **2.5 pts** Output 0 1 with extra output (new line, numbers or characters)
- √ + 2.5 pts Put newline after first method call
- √ + 5 pts Output 3 4 with space
- + **2.5 pts** Output 3 4 with extra output (new line, numbers or characters)
- √ + 2.5 pts Put newline after second method call
- √ + 5 pts Output 6
- + **2.5 pts** Output 6 with extra output (numbers or characters)
 - + 0 pts Incorrect/Unattempted

QUESTION 4

- 4 PrintNumbers For Loop Pseudocode 20 / 20
 - $\sqrt{+2}$ pts An integer variable (e.g., N) declared and initialize to 8
 - $\sqrt{+2}$ pts An integer counter (index) variable (e.g., I) declared and initialize it appropriately
 - \checkmark + 2 pts Correct condition to continue the FOR loop (e.g., an index variable I initialized to 2 and ended to be 8)
 - \checkmark + 2 pts Correct use of PRINT method with some spaces (e.g., PRINT N + " ")
 - $\sqrt{+2}$ pts Correct update of the variable N inside of loop (e.g., N = N + 2*I)
 - √ + 2 pts Putting the METHOD PrintNumbers and END PrintNumbers on place
 - √ + 2 pts Putting the FOR and ENDFOR on place
 - $\sqrt{+6}$ pts Print the series properly as 8 12 18 26 36
 - 48 62
 - + 0 pts Incorrect attempt

QUESTION 5

5 CheckLetter Method Pseudocode 20 / 20

- √ + 4 pts parameters correctly defined
- √ + 5 pts correct condition to check for vowel
- √ + 5 pts correct message
- √ + 1 pts METHOD
- √ + 1 pts END METHOD
 - + 2 pts IF
 - + 2 pts END IF
- √ + 2 pts CASE
- √ + 2 pts END CASE
 - + 0 pts Blank submission.
- + **0 pts** Submission does not meet any rubric requirements.

QUESTION 6

6 Curve 7 / 0

√ + 7 pts Correct

CSE 1321 Lecture Test 2 Cover Sheet

- 1) DO NOT TURN THE PAGE UNTIL TOLD TO BEGIN THE TEST.
- 2) Please print (legibly) your name, KSU NetID and KSU ID# on each page of the exam
- 3) Student has 45 minutes to complete the exam
- 4) Student MAY NOT use notes or book
- 5) Student should write their responses in Pseudocode in the Answer boxes on the test paper
- 6) Student is not allowed any electronic devices that can be used to look up or store answers. A standard calculator (non-graphing is acceptable)
- 7) Partial credit will be given.

Student Name: Rutvik Marakana
Student KSU ID# 000844 768
Student NetID: <u>Semaga Ran</u>
Student Signature: Russia
Date: 10/15/2018

Student Name: Rutvik Marakana NetID: Amarakan KSU ID# 000844 768

Q1 (15 points): What is the exact output of the following pseudocode segment?

```
FOR I from 1 to 4
     FOR J from 1 to 4
         PRINT((J-I) + "\t")
     ENDFOR
     PRINTLINE()
ENDFOR
```

```
Answer:
```

Student Name: Rothink

NetID: 3mg 4 Rom KSU ID# 0008474768

Q2 (15 points): Write pseudocode while loop to sum all the values between 2 integers (A & B, input by the user), including A and B, and print the resulting sum. A must be less than B, otherwise print 0.

Answer: READ user-input values for two integers and A
user-input of first integer
and 3
user-input of second integer sum - Sum + A A++ END WHILE PRINT "Sum of all values between + A+" and "+ B+" is"
+ sum

ELSE

M KSU ID# 000944769 Student Name: Q3 (20 points): What is the exact output of the following pseudocode segment? METHOD MAIN CALL myMethod (0,2)CALL myMethod (3,5) CALL myMethod (6,7) END MAIN METHOD myMethod(A,B) BEGIN WHILE (A < B)PRINT(A + " ") $A \leftarrow A + 1$ ENDWHILE PRINTLINE(); END myMethod Answer:

Student Name: Rutigia

NetID: 3/10/2004 KSU ID# 000844768

Q4 (20 points): Write a **pseudocode** method, called *PrintNumbers*, that prints out the following sequence of numbers. The method must use a **for-loop** to print the outputs.

HINT: "To get started: what's the pattern from number X to (X+1)? Does it apply to the next pair of numbers?"

8 12 18 26 36 48 62

Answer:

METHOD Paint Numbers ()

BEGIN
FOR (int i \to 0; i <= 6; i \to i \to t)

A \to a \to (2 \to i)

PRINT a \to a \to a \to 2

END Point Numbers ()

OM KSU ID# 0008447

Student Name: Rotal NetID: 9M

Q5 (20 points): Write a method, called *CheckLetter*. The method receives a letter as a parameter and returns whether the letter is a lowercase vowel (a, e, i, o, u) or not. Sample outputs are:

The entered letter is: a a is a vowel.

The entered letter is: b b is a vowel.

Answer: Check Letter (char c) PRINT "The entraced. char letter + c CASE lotton OF PRINT letter + " is not a youse RETURN