CSE 1321 Lecture Test 2A

Fall 2019

1. **DO NOT OPEN YOUR TEST UNTIL TOLD TO DO SO.**
2. Nothing may be on your desk except the exam, your photo ID (REQUIRED), and your writing utensil(s).
3. **THERE ARE FOUR (4) QUESTIONS AND AN EXTRA CREDIT QUESTION ON THIS TEST. CHECK EACH PAGE TO MAKE SURE YOU HAVE ALL QUESTIONS!**
4. Student has 40 minutes to complete the exam
5. Student MAY NOT use notes or books
6. **Please make sure to check the corresponding language box for each question:**
   1. Pseudocode answers should be clearly explained enough that a reader could take the answer and turn it into source code with minimal interpretation.
   2. Source code must be exact source code (include all required symbols, syntax, and indentation). It should be written to where a compiler would allow that code to run without any changes from the reader.
7. Student is not allowed any electronic devices (including but not limited to: earbuds, headphones, cell phones, tablets, laptops, watches, etc.) that can be used to look up or store answers.
8. If you’re wearing a hat with a brim, turn it backwards or remove it. You may not wear a hood.
9. All answers are to be your own, without the assistance of others
10. Partial credit will be given where appropriate
11. **You must put your KSU ID# (and only KSU ID#) on every page of the test after this cover page.**

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student KSU ID#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student NetID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 1) Method Madness (20 points)**

METHOD trickOrTreat (parameters:  candy)

BEGIN

CREATE treat ← 26

SWITCH candy

                                CASE “Tootsie Roll”:  treat ++

                                CASE “Candy Corn”:  treat += 2

                                BREAK

                                CASE “Twizzlers”:  treat -= 2

                                CASE “Dots”: treat --

                                CASE “Kit Kat”: treat \*= 2

                END SWITCH

                                RETURN treat

END METHOD

**Given the code above, write a method call for the method (assume that each parameter is a String).  Then determine that method’s output given the arguments that you pass.**

|  |  |
| --- | --- |
| Method Call |  |

|  |  |
| --- | --- |
| Exact Output |  |

**Question 2) Method Writing (40 points)**

1. Write a METHOD to print out this menu of topping choices for Candy Apples at a fair:
   1. Sprinkles
   2. Peanuts
   3. Chocolate Chips
2. Write a METHOD that prompts the user to make a selection as an **Integer** and returns the user’s selection from the menu as a **String**.
3. Write the MAIN program that calls the Selection Method after calling the Print Menu method and then prints a statement verifying which topping they selected.

**Print Menu Method:**

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝

**Selection Method:**

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝

**MAIN METHOD:**

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝

**Extra Space – indicate which method you are continuing**

PrintMenu Method ⃝ Selection Method ⃝ Main Method ⃝

**Question EC)** Extra credit:Draw a picture or tell us a joke. **(1 point)**

**Question 3) DOing that thing you do!** Print the exact output from the following code: **(20 points)**

BEGIN MAIN

CREATE teamH = 0, teamV = 0, mercy = false

DO

teamH +=7

teamV += 3

IF (teamH >= (teamV + 20))

mercy = true

END IF

WHILE (mercy == false)

END WHILE

PRINTLINE(“Final Score: “ + teamH + “ to “ + teamV)

END MAIN

Write the exact (including spacing and new lines, if any) output:

**Question 4) FORmula 1:** Write a FOR loop (just the loop) to print out the following sequence of numbers: **(20 points)**

**5 10 15 20 25 30 35 40 45 50**

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝