CSE 1321 Lecture Test 1A

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 FIVE (5) 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)** What’s the Scoop? **(10 points)**

The local Ted & Barry’s ice cream parlor place has asked you to help them test an online ordering program. You are to determine which statement(s) will be written to the console that tells the employees which scoops of ice cream the customers have ordered based on the following code.

BEGIN MAIN

CREATE flavor ← 1

SWITCH (flavor)

CASE 1: PRINT “Chocolate ”

CASE 2: PRINTLINE “Butter Pecan ”

BREAK

CASE 3: PRINT “Strawberry ”

CASE 4: PRINTLINE “Vanilla ”

BREAK

CASE 5: PRINT “Rocky Road ”

BREAK

CASE 6: PRINT “Mint Chocolate Chip ”

DEFAULT: PRINTLINE “sundae.”

END SWITCH

END MAIN

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

**Question 2) All A Bored?** Settlers of Catan is a popular strategy board game where players collect resources and use them to "settle" on the Island of Catan.  Using resources like brick, lumber, wool, ore, and grain, players build roads, settlements, and cities in an attempt to earn victory points.  **(30 points)**

Write a complete program that asks the user to enter their dice roll value (a number between 2 and 12).  If the user's dice roll is seven, print "Congratulations, you've been robbed!"  Otherwise, print "Whew!  That was close!"

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝

**Question 3)** What is your type? **(15 points)**

In module 2, we talked a lot about data types. List all eight primitive (simple) data types.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 4)** Order Up! **(15 points)**

Each operator below has a box under it. Fill in the order of how the following expressions are evaluated by the computer as an Integer, as well as the solution for the equation.

Part 1: ( ( 6 / 2 ) / 2) + (5 % 2) + 2

Solution

Part 2: 8 / 4 + 3 % 2

Solution

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

**Question 5)** I'm not like a regular Professor.  I'm a cool Professor. **(10 points)**

Write a complete program (including MAIN) that prompts the user for a day of the week and a color, reads those values in, and prints out the following message: "On [day]s we wear [color]."

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝

**Use this box for any extra space you need for a previous question. Make sure to indicate which language and question you are continuing.**

Answer is in: Pseudocode ⃝ C# ⃝ Java ⃝ C++ ⃝