CSE 1321 CSE 1321 Test 3A

Rutvik Dhira Marakana

TOTAL POINTS

94 / 100

QUESTION 1

Array - Unlucky Numbers 35 pts

- 1.1 Declare the Array 5 / 5
 - √ + 5 pts Correctly declared array.
 - + 0 pts Incorrectly declared array or unattempted.
- 1.2 Scan the array 20 / 30
 - \checkmark + 10 pts Correctly used a loop to scan the array. E.g.: for (i is 1 to less than myArray Length, i ++) or while (count < myArray Length) or FOREACH in myArray
 - + **10 pts** Correctly printed statement if 17 is not found after scanning array. E.g.: If (myArray[i] != 17) print ("Buona fortuna!")
 - \checkmark + 5 pts Correctly printed statement if 17 is not found while scanning array instead of after as the question states.
 - + **10 pts** Correctly printed statement if 17 is found after scanning array or broke from loop once found. E.g.: If (myArray[i] == 17) print ("Che Brutto!"), Else statement is also acceptable.
 - \checkmark + 5 pts Correctly printed statement if 17 is found while scanning array instead of after as the question states.
 - + **0 pts** Incorrect/Unattempted. E.g.: Did not scan the array correctly or at all.

QUESTION 2

- 2 SpyTurtle Class Declaration 43 / 45
 - √ + 5 pts Class keyword/Begin
 - + 2 pts End class
 - √ + 6 pts Attributes/variables declared
 - √ + 5 pts Constructor keyword
 - √ + 2 pts End constructor

- √ + 5 pts Appropriate pairing of parameters to variables in constructor
- √ + 6 pts Attributes initialized in the constructor
- √ + 5 pts DropMic method declared
- √ + 2 pts No parameters for DropMic
- \checkmark + 5 pts Number of mics decreased by 1 in the DropMic method
- √ + 2 pts End DropMic method
 - + 0 pts No credit
 - 1 pts DropMic shouldn't return a value
 - 3 pts Not the correct way to declare attributes
 - 2 pts Missing variable/attribute declaration
- 2 pts If passing parameters to the constructor, you should use them to initialize the attributes

QUESTION 3

- 3 Using Dog Class 20 / 20
 - \checkmark + 8 pts Properly declared and initialized two Dog objects.
 - + **4 pts** Dog objects are declared, but are missing necessary arguments.
 - + **0 pts** Dog objects are not properly declared.
 - √ + 4 pts Correctly called the eat method.
 - + 2 pts Called the eat method, but did not pass appropriate arguments.
 - + 0 pts Incorrect call for eat method.
 - √ + 4 pts Correctly called the bark method for each object.
 - + 0 pts Incorrect call(s) for bark method.
 - √ + 4 pts Correct output for both Dog objects.
 - + 2 pts Output provided for both dogs, but failed to increase the first dog's weight.
 - + 0 pts Incorrect output.
 - + 0 pts No submission.
 - + **0 pts** Output does not match the objects that were created.

QUESTION 4

4 Extra Credit 1/0

√ + 1 pts Correct

+ 0 pts Blank

QUESTION 5

5 Curve **5** / **0**

√ + 5 pts Correct

CSE 1321 Lecture Test 3 Cover Sheet

- 1) Print your Name, ID# and NetID on each page.
- 2) Student has 45 minutes to complete the exam
- 3) Student MAY NOT use notes or book
- 4) Student should write their code responses in Pseudocode in the Answer boxes on the test paper
- 5) Student is not allowed any electronic devices that can be used to look up or store answers. A standard calculator (non-graphing is acceptable)
- 6) Partial credit will be given.

Student Name: Rytwik Magakana
Student KSU ID#
Student NetID: 90makokan
Student Signature: Ruthile
Date: November 12

Student Name: Ruthik NetID: <u>Amarakan</u> KSU ID# 000844768

Q1 (35 points): UNLUCKY NUMBERS. Did you know that unlucky numbers vary around the world? For example, China's is 4, Japan's is 9, Italy's is 17, and Afghanistan's is 39. For this question, you will do two things. First, in pseudocode, you will declare an array of 1,000,000 numbers. Second, we're going to help Italy out and scan the array to make sure the number 17 doesn't appear in the array. Before you scan it in step 2, you can assume the array has been initialized with random numbers.

In pseudocode, declare an array of 1,000,000 numbers:

CREATE array numbers [1000000]

Using the array above, write pseudocode to scan the array – searching for the number 17. After scanning, if a 17 was found, print "Che brutto!" (How horrible!). If 17 isn't found, print "Buona fortuna!" (Good luck!). Try not to spend the rest of the day speaking with an Italian accent.

FOR (i \(1 \); i \(1000000 \); i \(i \); i \(1 \) THEN

IF (numbers [i] = = 17) THEN

PRINT 'Che brutto!"

ELSE

PRINT 'Buona fortuna!"

END FOR

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Q2 (45 points): The government is working on a TOP SECRET project and needs your help. They want you to prototype a SpyTurtle! They need to know where the turtle is at all times, so each turtle has an X and Y coordinate. The turtle can hold up to 10 microphones and has the ability to drop a microphone, decreasing the number of microphones by 1. For this question, you will write a class, class variables, and a constructor for the SpyTurtle. You will also write a method called "DropMic" that decreases the number of microphones by 1. Fill in the comments below.

// Start your class here CLASS SpyTwitle BEGIN // Put class attributes/variables here CREATE X CREATE MICROPHONES // Put constructor here. It should take in the starting X/Y position and initialize the variables Spy Twattle (22,4) BEGIN // Put method DropMic here METHON BEGIN microphones - microphones - 1 END

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Q3 (20 points): Imagine someone has written a Dog class for you with the following methods:
// Constructor Dog (parameters: name (string), weight (integer))
// Method1 – it makes the dog gain weight by a certain amount eat (parameter: amount_of_food (integer))
// Method 2 – prints out the name of the dog, a comma, and its weight bark (parameters: none)
// Declare two objects/variables of type Dog and initialize them correctly:
CREATE de 1 AS Dog // First Dog object de nous Dag ("Bauno", 45)
CREATE d2 AS Dog 1/ Second Dog object d2 < new Dog ("Dory", 37)
// Write the single statement to make the first Dog eat (an arbitrary amount of food)
d1. eat (30)
// Write the two statements to make both Dogs bark
d1. bark()
d2. bark ()
// Write the output of making both dogs bark here $Bsumg$, 75
DORM . 37

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Extra credit (+1 pt): Draw something.

