C# Programming Homework Homework 05

Chapter 05, C# Step by Step

Readings

Read chapter 5 in the C# Step by Step book.

Discussion Questions

Answer the discussion questions in writing.

1. What is a compound assignment operator? How does it work?

It is an arithmetic operator followed by the assignment operator.

1. List all the compound assignment operators.

\*=, /=, %=, +=, -=

3. List two ways to increment a numeric variable by 5. List two ways to decrement a numeric variable by

50.

Num = Num + 5, Num += 5, Num = Num – 50, Num -=50

1. How long does a while loop run?

As long as the condition is true

1. What is an iteration variable? (Not in book)

The variable that is changed each iteration of a loop.

1. What happens if you don't change the loop variable in the body of the while loop block?

You have an infinite loop

7. How many parts does a for loop statement have? Can you omit any of them? Can you omit all of

them? What happens if you omit all of them?

Three. Yes. No. Infinite loop

8. How do you guarantee that a loop runs at least once?

By using a do statement

9. What does the break statement do?

Jump out the of the body of an iteration statement, exits the loop

10. What does the continue statement do?

Causes the program to perform the next iteration of the loop immediately

11. (Thought question) Can you think of any reason why you would want to have an infinite loop? An

“infinite loop" is a loop without an update variable that in effect runs forever. As you will see, these

kinds of loops are written intentionally to perform various kinds of tasks.

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