

Chapter 8: Loops

True/False

- T F 1. Structures that execute a block of code repeatedly are called loops.
- T F 2. The part of a for loop that increments a control variable is the counter expression.
- T F 3. While loops are also called conditional loops.
- T F 4. A while loop continues to execute as long as the control expression is true.
- T F 5. A loop that executes without ever breaking is called a recursive loop.

Fill-in-the-Blank

- 1. A for loop is one example of a(n) _____ structure.
- 2. A _____ loop will always execute the loop code at least once.
- 3. All loop structures test a(n) _____ expression to determine if the loop should continue.
- 4. A while loop that never terminates is called a(n) _____ loop.
- 5. A(n) _____ statement can be used to terminate a loop prematurely.

Multiple Choice

- 1. Which of the following for loop statements will never execute its associated code?
 - a. for (x = 0; x <= 5; x++)
 - b. for (x = 5; x != 5; x += 2)
 - c. for (x = 5; x <= 4; x *= 2)
 - d. for (x = 5; x > 10; x++)
- 2. While and do while loops are both considered
 - a. selection structures.
 - b. controlled structures.
 - c. iteration structures.
 - d. step structures.
- 3. The first parameter of a for loop is called the
 - a. control expression.
 - b. initializing expression.
 - c. step expression.
 - d. set-up expression.
- 4. Which of the following while loops is incorrect?
 - a. while (alpha <= 10)
 - b. while (alpha == true)
 - c. while (!alpha)
 - d. while (alpha == false);
- 5. The continue statement can be used in a while loop to
 - a. jump to the next iteration of the loop.
 - b. terminate the loop.
 - c. pause the loop for 1 second and then resume.
 - d. none of the above.