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ID: 020022 Date: 10/14/2019 **Class: Computer Programming 2** 

Score: 38 / 44 (86.36%)

# **Chapter 5: Computer Programming 2**

## TRUE/FALSE



1. True/False: The increment and decrement operators can be used in mathematical expressions; however, they cannot be used in relational expressions.

**Points:** 1/1



2. True/False: A while loop is somewhat limited, because the counter can only be incremented by one each time through the loop.

**Points:** 1/1



3. True/False: An initialization expression may be omitted from the for loop if no initialization is required.

**Points:** 1/1



4. True/False: You may not use the break and continue statements within the same set of nested loops.

**Points:** 1/1



5. True/False: The condition that is tested by a while loop must be enclosed in parentheses and terminated with a semicolon.

**Points:** 1/1



6. True/False: You may not use the break statement in a nested loop.

**Points:** 1/1



7. True/False: An output file is a file that data is written to.

**Points:** 1/1



8. True/False: string objects have a member function named c\_str that returns the contents of the object formatted as a null-terminated C-string.

**Points:** 1 / 1

## **MULTIPLE CHOICE**



- 9. These are operators that add and subtract one from their operands.
  - a. plus and minus
  - b. ++ and --
  - c. binary and unary
  - d. conditional and relational
  - e. None of these

**Points:** 1 / 1



10. What is the output of the following code segment?

```
n = 1;
while (n <= 5)
    cout << n << ' ';
    n++;</pre>
```

- a. 1 2 3 4 5
- b. 1 1 1... and on forever
- c. 23456
- d. 1 2 3 4
- e. 2345

**Points:** 0 / 1



- 11. This operator increments the value of its operand, then uses the value in context.
  - a. prefix increment
  - b. postfix increment
  - c. prefix decrement
  - d. postfix decrement
  - e. None of these



- 12. The while loop has two important parts: an expression that is tested for a true or false value, and:
  - a. a statement or block that is repeated as long as the expression is true
  - b. a statement or block that is repeated only if the expression is false
  - c. one line of code that is repeated once, if the expression is true
  - d. a statement or block that is repeated once, if the expression is true

### **Points:** 1 / 1



- 13. The while loop is this type of loop.
  - a. post-test
  - b. pre-test
  - c. infinite
  - d. limited
  - e. None of these

### **Points:** 1 / 1



- 14. The statements in the body of a while loop may never be executed, whereas the statements in the body of a do-while loop will be executed:
  - a. at least once
  - b. at least twice
  - c. as many times as the user wishes
  - d. never
  - e. None of these

### **Points:** 1 / 1



- 15. A for statement contains three expressions: initialization, test, and
  - a. update
  - b. reversal
  - c. null
  - d. validation
  - e. None of these

## **Points:** 1 / 1



- 16. In a for statement, this expression is executed only once.
  - a. test
  - b. null
  - c. initialization
  - d. validation
  - e. None of these



- 17. You may define a \_\_\_\_\_ in the initialization expression of a for loop.
  - a. constant
  - b. function
  - c. variable
  - d. new data type
  - e. None of these

## **Points:**

1/1



- 18. A loop that is inside another loop is called:
  - a. an infinite loop
  - b. a pre-test loop
  - c. a post-test loop
  - d. a nested loop
  - e. None of these

## **Points:** 1 / 1



- 19. This statement may be used to stop a loop's current iteration and begin the next one.
  - a. break
  - b. terminate
  - c. re-iterate
  - d. continue
  - e. None of these

## **Points:** 0 / 1



- 20. When the increment operator precedes its operand, as in ++num1, the expression is in this mode.
  - a. postfix
  - b. prefix
  - c. preliminary
  - d. binary
  - e. None of these



21. Look at the following statement.

while 
$$(x++ < 10)$$

Which operator is used first?

a. ++

c. Neither. The expression is invalid.

b. <

**Points:** 0 / 1



- 22. The while loop contains an expression that is tested for a true or false value, and a statement or block that is repeated as long as the expression:
  - a. is false
  - b. is true
  - c. does not evaluate to true or false
  - d. evaluates to true or false
  - e. None of these





- 23. This is a special value that marks the end of a list of values.
  - a. constant
  - b. variable
  - c. loop
  - d. sentinel
  - e. None of these

**Points:** 1 / 1



24. What is the output of the following code segment?

$$n = 1;$$

- a. 1 2 3 4 5
- b. 1 1 1 ... and on forever
- c. 23456
- d. 1 2 3 4
- e. 2345



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- 25. The do-while loop is considered a(n) \_\_\_\_\_loop.
  - pre-test
  - b. post-test
  - c. infinite
  - d. limited
  - e. None of these

#### 1/1**Points:**



- 26. This is a pre-test loop that is ideal in situations where you do not want the loop to iterate if the condition is false from the beginning.
  - do-while
  - b. while
  - c. for
  - d. infinite
  - e. None of these

#### **Points:** 1/1



- 27. This statement causes a loop to terminate early.
  - stop
  - b. break
  - c. null
  - d. terminate
  - e. None of these

#### 1/1**Points:**



- 28. If you want a user to enter exactly 20 values, which loop would be the best to use?
  - a. do-while
  - b. for
  - c. while
  - d. infinite
  - e. None of these

#### 1/1 **Points:**



- 29. This statement may be used to stop a loop's current iteration and begin the next one.
  - a. break
  - b. terminate
  - c. return
  - d. continue
  - e. None of these

**Points:** 0/1

30. What will the following loop display?

```
int x = 0;
      while (x < 5)
           cout << x << endl;</pre>
           x++;
      }
a. 0
     1
     2
     3
      4
     5
b. 0
     1
     2
```

- 3 4
- c. 01 2 3 4
- The loop will display numbers starting at 0, for infinity.

**Points:** 1/1



31. What will the following code display?

```
int number = 6;
      cout << number++ << endl;</pre>
  6
                                   c. 7
a.
b. 5
                                   d. 0
```

**Points:** 1/1



32. What will the following code display?

```
int number = 6;
      cout << ++number << endl;</pre>
                                   c. 7
a. 6
b. 5
                                   d. 0
```

**Points:** 1/1



33. What will the following code display?

```
int number = 6;
int x = 0;
x = number--;
```

a. 6

c. 7

d. 0

b. 5**Points:** 

1/1



34. What will the following code display?

int number = 6  
int 
$$x = 0;$$
  
 $x = --number;$ 

a. 6

c. 7

b. 5

d. 0

**Points:** 1 / 1



35. To allow file access in a program, you must #include this header file.

a. file

c. fstream

b. fileaccess

d. cfile

**Points:** 1 / 1



36. This may be used to write information to a file.

- a. cout object
- b. pen object
- c. output object
- d. stream insertion operator
- e. None of these

**Points:** 1 / 1



37. To write data to a file, you define an object of this data type.

a. outputFile

c. fstream

b. ifstream

d. ofstream

**Points:** 1 / 1



38. To read data from a file, you define an object of this data type.

a. inputFile

c. fstream

b. ifstream

d. ofstream



39. Assuming outFile is a file stream object and number is a variable, which statement writes the contents of number to the file associated with outFile?

- a. write(outFile, number);
- c. outFile << number;</pre>
- b. outFile >> number;
- d. number >> outFile;

**Points:** 

1/1



40. Assuming dataFile is a file stream object, the statement:

- a. is illegal in C++
- b. needs a filename argument to execute correctly
- c. closes a file
- d. is legal but risks losing valuable data
- e. None of these

**Points:** 

1/1



41. How many times will the following loop display "Hello"?

a. 20

c. 21

b. 19

d. An infinite number of times

**Points:** 

1/1



42. How many times will the following loop display "Hello"?

a. 20

c. 21

b. 19

d. An infinite number of times

**Points:** 

1/1



43. How many times will the following loop display "Hello"?

a. 20

c 21

b. 19

d. An infinite number of times

**Points:** 

1/1

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44. How many times will the following loop display "Hello"?

for (int i = 20; i > 0; i--)
 cout << "Hello!" << endl;</pre>

a. 20

c. 21

b. 19

d. An infinite number of times