C++ How to Program, 9/e Multiple Choice Test Bank

Chapter 2: Introduction to C++ Programming; Input/Output and Operators

```
Section 2.2 First Program in C++: Printing a Line of Text
2.2 Q1: End-of-line comments that should be ignored by the compiler are denoted using:
    a. Two forward slashes (//).
    b. Three forward slashes (///).
    c. A slash and a star (/*).
    d. A slash and two stars ( /** ).
ANS: a. Two forward slashes ( // ).
2.2 Q2: Which of the following does not cause a syntax error to be reported by the C++ compiler?
    a. Mismatched {}.
    b. Missing */ in a comment.
    c. Missing; at the end of a statement.
    d. Extra blank lines.
ANS: d. Extra blank lines.
2.2 Q3: Which of the following is not a syntax error?
   a. std::cout << 'Hello world!';</pre>
    b. std::cout << "Hello</pre>
                                 world! ";
    c. std::cout << "Hello world! ";</pre>
    d. std::cout << Hello world!;</pre>
ANS: c. std::cout << "Hello world! ";
2.2 Q4: The escape sequence for a newline is:
   a. \n
   b. \t
   c. \r
   d. ∖a
ANS: a. \n
2.2 Q5: Which of the following statements would display the phrase C++ is fun?
    a. std::cout << "Thisis fun\rC++ ";</pre>
   b. std::cout << '++ is fun';</pre>
    c. std::cout << "\"C++ is fun\"";</pre>
    d. std::cout << C++ is fun;</pre>
ANS: a. std::cout << "Thisis fun\rC++ ";
```

Section 2.3 Modifying Our First C++ Program

```
2.3 Q1: Which of the following is not a valid C++ identifier?
   a. my Value
   b. _AAA1
   c. width
```

ANS: a. my Value (Identifiers may not contain blanks)

2.3 Q2: Which is the output of the following statements?

```
std::cout << "Hello ";
std::cout << "World";</pre>
```

a. Hello World

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```
b. World Hello
    c. Hello
      World
    d. World
      Hello
ANS: a. Hello World
2.3 Q3: Which of the following is the escape character?
    b. \
    c. \n
    d.
ANS: b. \
2.3 Q4: Which of the following code segments prints a single line containing hello there with the
words separated by a single space?

    a. std::cout << "hello ";
        std::cout << " there";</li>
    b. std::cout << "hello", " there";</li>
    c. std::cout << "hello";
        std::cout << "there";</li>

    d. std::cout << "hello";
    std::cout << " there";</pre>
ANS: d. std::cout << "hello";
std::cout << " there";
Section 2.4 Another C++ Program: Adding Integers
2.4 Q1: Which of the following is a variable declaration statement?
    a. int total;
    b. #include <iostream>
    c. int main()
    d. // first string entered by user
ANS: a. int total;
2.4 Q2: The ______ object enables a program to read data from the user.
    a. std::cout.
    b. std::cin.
    c. std::cread.
    d. std::cget.
ANS:b. std::cin.
2.4 Q3: The assignment operator ______ assigns the value of the expression on its right to the
variable on its left.
    a. <-
    b.
        ->
    c. =
        #
    d.
ANS: c. =.
2.4 Q4: The std::end1 stream manipulator__
    a. inputs a newline.
    b. flushes the output buffer.
    c. outputs a newline and flushes the output buffer.
    d. terminates the program.
ANS: c. outputs a newline and flushes the output buffer.
```

Section 2.5 Memory Concepts

2.5 Q1: Which of the following statements does *not* overwrite a preexisting value stored in a memory location?

```
a. int a;
b. number = 12;
c. y = y + 2;
d. width = length;
```

ANS: a. int a;

2.5 Q2: Which of the following statements could potentially change the value of number 2?

```
a. std::cin >> number2;
b. sum = number1 + number2;
c. number1 = number2;
d. std::cout << number2;</li>
ANS: a. std::cin >> number2;
```

Section 2.6 Arithmetic

2.6 Q1: What is the value of result after the following C++ statements execute?

```
int a, b, c, d, result;
a = 4;
b = 12;
d = 51;
result = d % a * c + a % b + a;
```

- a. 119
- b. 51
- c. 127
- d. 59

ANS: a. 119.

2.6 Q2: In what order would the following operators be evaluated

Assume that if two operations have the same precedence, the one listed first will be evaluated first.

```
a. +, -, /, *, %
b. -, +, %, *, /
c. -, *, %, +, /
d. *, /, %, -, +
ANS: d. *, /, %, -, +
```

2.6 Q3: Which of the following is *not* an arithmetic operator?

- a. + b. c. =
- d. %

ANS: c. =

Section 2.7 Decision Making: Equality and Relational Operators

2.7 Q1: What will be the output after the following C++ statements have been executed?

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```
int a, b, c, d;
         a = 4;
b = 12;
         c = 37;
d = 51;
         if ( a < b )
    cout << "a < b" << endl;</pre>
         if ( a > b )
   cout << "a > b" << endl;</pre>
         if ( d <= c ) cout << "d <= c" << endl;
         if ( c != d )
   cout << "c != d" << endl;</pre>
    a. a < b
         c != d
    b. a < b
         d <= c
         c != d
        a > b
         c != d
        a < b
         c < d
         a != b
ANS: a. a < b
         c != d
```

- 2.7 Q2: Which of the following is a compilation error?
 - a. Neglecting to declare a local variable in a function before it is used.
 - b. Using a triple equals sign instead of a double equals sign in the condition of an if statement.
 - c. Omitting the left and right parentheses for the condition of an if statement.
 - d. All of the above.

ANS: d. All of the above.

2.7 Q3: Each of the following is a relational or equality operator except:

a. <= b. =! c. == d. > ANS: b. =!