# Chapter 2: Introduction to C++ Programming

### 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 statements 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++";</li>
  b. std::cout << '++ is fun';</li>
  c. std::cout << "\"C++ is fun\"";</li>

- 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
- d. m\_x

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

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

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

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```
a. Hello World
   b. World Hello
    c. Hello
     world
    d. World
     Hello
ANS: a. Hello World
2.3 Q3: Which of the following is the escape character?
   a. *
   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";</pre>
   b. std::cout << "hello" ,</pre>
                                        " there";
    c. std::cout << "hello";</pre>
       std::cout << "there"</pre>
    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::endl stream manipulator
    a. inputs a newline.
   b. flosses 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?

```
2.5 Q2: Which of the following statements co
a. std::cin >> number2;
b. sum = number1 + number2;
c. number1 = number2;
d. std::cout << number2;
ANS: a. std::cin >> number2;
```

#### **Section 2.6 Arithmetic**

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

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. =
```

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# 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?

```
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;</pre>
        if ( c != d )
    cout << "c != d" << endl;</pre>
    a. a < b
        c != d
    b. a < b
         d \ll 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. Placing a space between the symbols in the <= operator.
  - 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. = !