# Test Bank for C++ How to Program Early Objects Version 9th Edition by Deitel

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

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#### 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! ';
b. std::cout << "Hello
world! ";
c. std::cout << "Hello world! ";
d. std::cout << Hello world!;
ANS: c. std::cout << "Hello world!;</pre>
```

```
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++ ";
    b. std::cout << '++ is fun';</pre>
```

```
c. std::cout << "\"C++ is fun\"";
d. std::cout << C++ is fun;
ANS: a. std::cout << "Thisis fun\rC++ ";</pre>
```

# 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 ";
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?

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";
b. std::cout << "hello";
    std::cout << "hello";
    std::cout << "hello";
    std::cout << "there";
d. std::cout << "there";
std::cout << " there";
ANS:d.std::cout << "hello";
    std::cout << " there";
</pre>
```

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