## C++ Programming From Problem Analysis to Program Design 6th Edition Malik Test Bank

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**Chapter 2: Basic Elements of C++** 

## **TRUE/FALSE**

- 1. In C++, reserved words are the same as predefined identifiers. ANS: F PTS: 1 REF: 36 2. The maximum number of significant digits in values of the double type is 15. ANS: T PTS: 1 REF: 42 3. The maximum number of significant digits in float values is up to 6 or 7. ANS: T PTS: 1 REF: 42 4. An operator that has only one operand is called a unique operator. ANS: F PTS: 1 REF: 45 5. If a C++ arithmetic expression has no parentheses, operators are evaluated from left to right. ANS: T PTS: 1 REF: 46 6. A mixed arithmetic expression contains all operands of the same type. ANS: F PTS: 1 REF: 49 7. Suppose a = 5. After the execution of the statement ++a; the value of a is 6. PTS: 1 ANS: T **REF: 70** 8. The escape sequence  $\rightarrow relation point to the beginning of the next line.$ ANS: F PTS: 1 **REF:** 78 9. A comma is also called a statement terminator. ANS: F PTS: 1 **REF: 90** 10. Suppose that sum is an int variable. The statement sum += 7; is equivalent to the statement sum = sum + 7; ANS: T PTS: 1 **REF: 95 MULTIPLE CHOICE** 
  - 1. The \_\_\_\_\_ rules of a programming language tell you which statements are legal, or accepted by the programming language.
    - a. semanticb. logicalc. syntaxd. grammatical

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|  | ANS: C   | PTS:      | 1                 | REF:     | 34  |
|--|--|-----------|-------------------|----------|---|
| 2.   | Which of the following<br>a. char<br>b. Char       | ng is a 1 | reserved word i   | c.       | CHAR  |
|  |  |           |                   | d.       |   |
|  | ANS: A   | PTS:      | 1                 | REF:     | 36  |
| 3.   | Which of the following                             | ng is a l | legal identifier? |          |   |
|  | <ul><li>a. program!</li><li>b. program_1</li></ul> |           |                   |          | lprogram<br>program 1                         |
|  | ANS: B   | PTS:      | 1                 | REF:     | 36  |
| 4 is a valid int value.                                      |  |           |                   |          |   |
|  | a. 46,259  |           |                   |          | 462.59  |
|  | <b>b.</b> 46259                                    |           |                   | d.       | -32.00  |
|  | ANS: B   | PTS:      | 1                 | REF:     | 39-40   |
| 5.   | is a valid cha:                                    | r value   | 2.                |          |   |
|  | a129   |           |                   |          | 128   |
|  | b. `A'   |           |                   |          | 129   |
|  | ANS: B   | PTS:      | 1                 | REF:     | 40  |
| 6.   | An example of a floa                               | ting poi  | int data type is  | ·        |   |
|  | a. int<br>b. char                                  |           |                   | с.<br>d. | double<br>short                               |
|  |  | DTC.      | 1                 |          |   |
|  | ANS: C   | PTS:      | 1                 | KEF:     | 41  |
| 7.   | The memory allocate                                | d for a   | float value is    | -        |   |
|  | a. two<br>b. four                                  |           |                   |          | eight<br>sixteen                              |
|  |  | PTS:      | 1                 | REF:     |   |
|  |  |           |                   |          |   |
| 8.   | The value of the expr a. $0.3$                     | ression   | 33/10, assur      | •        | oth values are integral data types, is<br>3.0 |
|  | <b>b.</b> 3  |           |                   |          | 3.3   |
|  | ANS: B   | PTS:      | 1                 | REF:     | 43-44   |
| 9.   | The value of the expr                              | ression   | 17 % 7 is         |          |   |
|  | a. 1   |           |                   | c.       |   |
|  | <b>b.</b> 2  |           |                   | d.       | 4   |
|  | ANS: C   | PTS:      | 1                 | REF:     | 43-44   |
| 10. The expression static_cast <int>(9.9) evaluates to</int> |  |           |                   |          |   |
|  | <b>a.</b> 9<br><b>b.</b> 10                        |           |                   |          | 9.9   |
|  |  |           |                   |          | 9.0   |
|  | ANS: A   | PTS:      | 1                 | REF:     | 51  |

11. The expression static cast<int>(6.9) + static cast<int>(7.9) evaluates to \_\_\_\_\_. a. 13 c. 14.8 b. 14 d. 15 ANS: A REF: 51 PTS: 1 12. The length of the string "computer science" is \_ \_\_\_\_. a. 14 c. 16 b. 15 d. 18 ANS: C PTS: 1 REF: 54 13. In a C++ program, one and two are double variables and input values are 10.5 and 30.6. After the statement cin >> one >> two; executes, \_\_\_\_\_ a. one = 10.5, two = 10.5c. one = 30.6, two = 30.6b. one = 10.5, two = 30.6d. one = 11, two = 31 REF: 64 ANS: B PTS: 1 14. Suppose that count is an int variable and count = 1. After the statement count++; executes, the value of count is . a. 1 c. 3 **b**. 2 d. 4 ANS: B PTS: 1 **REF: 70** 15. Suppose that alpha and beta are int variables. The statement alpha = --beta; is equivalent to the statement(s) \_\_\_\_\_. a. alpha = 1 - beta;b. alpha = beta -1;c. beta = beta - 1; alpha = beta; d. alpha = beta; beta = beta - 1; ANS: C PTS: 1 REF: 70-71 16. Suppose that alpha and beta are int variables. The statement alpha = beta--; is equivalent to the statement(s) . a. alpha = 1 - beta;b. alpha = beta - 1;c. beta = beta - 1; alpha = beta; d. alpha = beta; beta = beta - 1; REF: 70-71 ANS: D PTS: 1 17. Suppose that alpha and beta are int variables. The statement alpha = beta++; is equivalent to the statement(s) \_\_\_\_\_.

a. alpha = 1 + beta; b. alpha = alpha + beta; c. alpha = beta; beta = beta + 1; d. beta = beta + 1; alpha = beta; ANS: C PTS: 1 REF: 70-71

18. Suppose that alpha and beta are int variables. The statement alpha = ++beta; is equivalent to the statement(s) \_\_\_\_\_.

```
a. beta = beta + 1;
       alpha = beta;
    b. alpha = beta;
       beta = beta + 1;
    c. alpha = alpha + beta;
    d. alpha = beta + 1;
    ANS: A
                      PTS: 1
                                       REF: 70-71
19. Choose the output of the following C++ statement:
    cout << "Sunny " << '\n' << "Day " << endl;</pre>
    a. Sunny \nDay
    b. Sunny \nDay endl
    c. Sunny
       Day
    d. Sunny \n
       Day
                      PTS: 1
    ANS: C
                                       REF: 73
20. Which of the following is the newline character?
                                          c. \label{eq:classical}
    a. \r
    b. ∖n
                                          d. ∖b
    ANS: B
                      PTS: 1
                                       REF: 73
21. Consider the following code.
    // Insertion Point 1
    using namespace std;
    const float PI = 3.14;
    int main()
    {
         //Insertion Point 2
         float r = 2.0;
         float area;
         area = PI * r * r;
         cout << "Area = " << area <<endl;</pre>
         return 0;
     }
    // Insertion Point 3
    In this code, where does the include statement belong?
    a. Insertion Point 1
                                          c. Insertion Point 3
    b. Insertion Point 2
                                          d. Anywhere in the program
```

|     | ANS: A  | PTS:    | 1                | REF:         | 80  |
|-----|---|---------|------------------|--------------|---|
| 22. | are executables<br>a. Variables<br>b. Prompt lines                                  | stateme | nts that inform  | c.           | r what to do.<br>Named constants<br>Expressions                           |
|     | ANS: B  | PTS:    | 1                | REF:         | 91  |
| 23. | The declaration int<br>a. inta , b, c<br>b. int a,b,c;                              |         | , c; is equiv    | c.           | which of the following?<br>int abc;<br>int a b c;                         |
|     | ANS: B  | PTS:    | 1                | REF:         | 92  |
| 24. | Suppose that alpha<br>statement alpha *:<br>a. alpha = 5<br>b. alpha = 10<br>ANS: C | = bet   | a; executes, _   | <br>c.<br>d. | bles and alpha = 5 and beta = 10. After the<br>alpha = 50<br>alpha = 50.0 |
|     | ANS: C  | P15:    | 1                | REF:         | 94  |
| 25. | Suppose that sum a<br>sum += num exec<br>a. sum = 0<br>b. sum = 5                   |         |                  | c.           | and sum = 5 and num = 10. After the statement<br>sum = 10<br>sum = 15     |
|     | ANS: D  | PTS:    | 1                | REF:         | 95  |
| СОМ | PLETION   |         |                  |              |   |
| 1.  |   | is t    | the process of p | lanning      | g and creating a program.   |
|     | ANS:<br>Programming<br>programming  |         |                  |              |   |
|     | PTS: 1  | REF:    | 28               |              |   |
| 2.  | A(n)  |         | is a memory      | locatio      | n whose contents can be changed.  |
|     | ANS: variable   |         |                  |              |   |
|     | PTS: 1  | REF:    | 33               |              |   |
| 3.  | A(n)accomplishes someth   | ing.    | is a collectio   | n of sta     | tements, and when it is activated, or executed, it                        |
|     | ANS:<br>subprogram<br>sub program<br>sub-program<br>function                        |         |                  |              |   |

PTS: 1 REF: 34

| 4. |  | functions are those that have already been written and are provided as part of |  |  |  |
|----|--|--|--|--|--|
|    | the system.  |  |  |  |  |
|    | ANS:   |  |  |  |  |
|    | Predefined   |  |  |  |  |
|    | predefined   |  |  |  |  |
|    | Standard   |  |  |  |  |
|    | standard   |  |  |  |  |
|    | PTS: 1   | REF: 34  |  |  |  |
| 5. |  | rules determine the meaning of instructions.                                   |  |  |  |
|    | ANS:   |  |  |  |  |
|    | Semantic   |  |  |  |  |
|    | semantic   |  |  |  |  |
|    | PTS: 1   | REF: 34  |  |  |  |
| 6. |  | can be used to identify the authors of the program, give the date when the     |  |  |  |
|    | program is written or modified, give a brief explanation of the program, and explain the meaning of key statements in a program. |  |  |  |  |
|    |  |  |  |  |  |
|    | ANS:   |  |  |  |  |
|    | Comments   |  |  |  |  |
|    | comments   |  |  |  |  |
|    | PTS: 1   | REF: 34  |  |  |  |
| 7. | The smallest individu  | ual unit of a program written in any language is called a(n)                   |  |  |  |
|    |  |  |  |  |  |
|    | ANS: token   |  |  |  |  |
|    | PTS: 1   | REF: 35  |  |  |  |
| 8. | In a C++ program   | are used to separate special symbols, reserved words, and                      |  |  |  |
| 0. | identifiers.   |  |  |  |  |
|    | ANS:   |  |  |  |  |
|    | whitespaces  |  |  |  |  |
|    | whitespace   |  |  |  |  |
|    | white spaces   |  |  |  |  |
|    | white space  |  |  |  |  |
|    | PTS: 1   | REF: 37  |  |  |  |
| 9  | The  | type is C++ 's method for allowing programmers to create their own             |  |  |  |
| 2. | simple data types.   |  |  |  |  |
|    |  |  |  |  |  |
|    | ANS: enumeration   |  |  |  |  |

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|-----|-------------------------|------------------------------------|-------------------|--|--|
| 10. | The m                   | emory space fo                     | or a(n) _         |  | data value is 64 bytes.  |
|     | ANS:                    | long long                          |                   |  |  |
|     | PTS:                    | 1                                  | REF:              | 39   |  |
| 11. | The m                   | aximum numb                        | er of sig         | gnificant digits is ca                     | lled the   |
|     | ANS:                    | precision                          |                   |  |  |
|     | PTS:                    | 1                                  | REF:              | 42   |  |
| 12. |                         |                                    | •                 | pe is automatically be coercion is said to | changed to another data type, a(n)<br>o have occurred.         |
|     | ANS:                    | implicit                           |                   |  |  |
|     | PTS:                    | 1                                  | REF:              | 51   |  |
| 13. | A(n) _                  |                                    |                   | is a sequence of                           | zero or more characters.                                       |
|     | ANS:                    | string                             |                   |  |  |
|     | PTS:                    | 1                                  | REF:              | 53   |  |
| 14. | In C+-<br>locatio       | +, you can use                     | a(n)<br>ta is fix | ed throughout prog                         | to instruct a program to mark those memory gram execution.     |
|     | ANS:<br>named<br>consta | constant<br>nt                     |                   |  |  |
|     | PTS:                    | 1                                  | REF:              | 55   |  |
| 15. |                         | type is called<br>ne value at a ti |                   | ii   | f the variable or named constant of that type can store        |
|     | ANS:                    | simple                             |                   |  |  |
|     | PTS:                    | 1                                  | REF:              | 57   |  |