Introduction to the C++ Language

REVIEW QUESTIONS

EXERCISES

- 1. The purpose of a library file, such as iostream, is to store a program's source code.
 - **b.** False
- 3. Logical data in C++ is generally represented by integer values.
 - **b.** False
- **5.** Which of the following statements about the structure of a C++ program is false?
 - **b.** Declaration sections contain instructions to the computer.
- 7. Which of the following identifiers is not valid?
 - d. \$salesAmount
- **9.** Which of the following statements about characters is true?
 - a. Each character has a unique binary value.
- 11. Which of the following statements about a constant are true?
 - c. Like variables, constants have a type and may be named.
- **12.** Which of the following statements about files is false?
 - **b.** The keyboard is usually not buffered.
- **13.** The following are not character constants:
 - **b.** 'bb'
 - c. "C"
- **15.** The following are not floating-point constants::
 - c. 'a'
 - d. pi
 - **e.** 40

```
17. The following are not valid identifiers:
   b. not valid — Starts with number
  c. not valid — Reserved word
   e. not valid — Hyphen is illegal
19. The following lines must be changed:
      line 1:
                 #include <iostream>
      add
                 using namespace std;
                cout << "Hello World\n";</pre>
      line 4:
      line 6: } // main
21. The following lines must be changed:
      add
             4: #include <iostream>
      line 6: int
                       а;
      line 7: float b;
line 8: char c;
line 10: Printing variables before initialization.
23. The following lines must be changed:
      add
             4: #include <iostream>
      add
              5: using namespace std;
      line 6: int
                         a;
      line 7: char
                         b;
                                     // We recommend
                 char
                         c;
                                     // One definition/line
                 char
                         d;
                                     // 'd' declared twice
      line 8: double e;
                 float f;
      // Printing variables before initialization
      line 10: cout << a;
      line 11: cout << b << c << d;
      line 12: cout << e << f;
25.
   /* Print four lines with increasing asterisks.
          Written by:
          Date:
   */
   #include <iostream>
  using namespace std;
   int main ()
      cout << "*\n";
cout << "**\n";
cout << "**\n";</pre>
      cout << "****\n";
      return 0;
      // main
   }
27.
   /* This program prints 5 numbers.
          Written by:
          Date:
   #include <iostream>
  using namespace std;
   int main ()
      int a = 1;
```

PROBLEMS

```
int b = 10;
       int c = 100;
        int d = 1000;
       int e = 10000;

cout << a << ' ' << b << ' ' << c << ' ' << d << ' ' << e << endl;
       return 0;
   } // main
29. Code variable definitions:
   a. short code;
   b. const float sales Tax = 0.0825;
   c. double sum = 0.0;
31.
   /* Read and print an integer and a float.
           Written by:
           Date:
   */
   #include <iostream>
       using namespace std;
   int main ()
       cout << "Enter quantity and unit price: \n";</pre>
       int quantity;
        cin >> quantity;
        float unitPrice;
       cin >> unitPrice;
       cout << "\nYou entered:\n";
cout << "Quantity: " << quantity << endl;
cout << "Unit Price: " << unitPrice << endl;</pre>
       return 0;
   } // main
```

Chapter 2: Introduction to the C++ Language