

**TEST BANK**



**C++** FOR ENGINEERS  
AND SCIENTISTS

GARY J. BRONSON

FOURTH EDITION

Copyrighted Material



b. modules d. procedures

ANS: B PTS: 1 REF: 45

2. \_\_\_\_ programs are easier to develop, correct, and modify than programs constructed in some other manner.

- a. Modular c. Sequential  
b. Handwritten d. Low-level

ANS: A PTS: 1 REF: 45

3. A \_\_\_\_ contains both data and functions appropriate for manipulating the data.

- a. segment c. class  
b. block d. function

ANS: C PTS: 1 REF: 47

4. A(n) \_\_\_\_ is a word the language sets aside for a special purpose and can be used only in a specified manner.

- a. codeword c. identifier  
b. keyword d. classname

ANS: B PTS: 1 REF: 47

5. The maximum number of characters in a function name is \_\_\_\_.

- a. 128 c. 512  
b. 256 d. 1024

ANS: D PTS: 1 REF: 47

6. A(n) \_\_\_\_ is a word designed as a memory aid.

- a. mnemonic c. reserved word  
b. keyword d. identifier

ANS: A PTS: 1 REF: 48

7. The `main()` function is referred to as a(n) \_\_\_\_ function because it tells other functions the sequence in which they execute.

- a. logical c. driver  
b. auxiliary d. class

ANS: C PTS: 1 REF: 48

8. Data transmitted to a function at runtime is referred to as the \_\_\_\_ of the function.

- a. return value c. body  
b. arguments d. structure

ANS: B PTS: 1 REF: 49

9. The \_\_\_\_ is an output object that sends data it receives to the standard display device.

- a. `out` c. `print`  
b. `cin` d. `cout`

ANS: D PTS: 1 REF: 50

10. Preprocessor commands begin with a \_\_\_\_ sign.

- a. `#` c. `//`



- a. manipulator
- b. escape sequence
- c. string
- d. char object

ANS: A                      PTS: 1                      REF: 72

20. A(n) \_\_\_\_ is simply a name the programmer assigns to refer to computer storage locations.
- a. constant
  - b. variable
  - c. expression
  - d. identifier

ANS: B                      PTS: 1                      REF: 79

21. A(n) \_\_\_\_ data value is considered a complete entity and can't be decomposed into a smaller data type supported by the language.
- a. composed
  - b. atomic
  - c. complex
  - d. real

ANS: B                      PTS: 1                      REF: 82

22. When a declaration statement is used to store a value into a variable, the variable is said to be \_\_\_\_.
- a. initialized
  - b. deleted
  - c. reserved
  - d. used

ANS: A                      PTS: 1                      REF: 83

23. The value stored in the variable is referred to as the variable's \_\_\_\_.
- a. address
  - b. location
  - c. data
  - d. contents

ANS: D                      PTS: 1                      REF: 86

24. To determine the address of a variable, we can use C++'s address operator, \_\_\_\_, which means "the address of."
- a. \*
  - b. =
  - c. &
  - d. !

ANS: C                      PTS: 1                      REF: 88

25. A common programming error consists of forgetting to separate data streams sent to `cout` with the insertion symbol, \_\_\_\_.
- a. <
  - b. >
  - c. >>
  - d. <<

ANS: D                      PTS: 1                      REF: 97

## COMPLETION

1. A program consists of subprograms, called \_\_\_\_\_, that are designed and developed to perform a specific task.

ANS: modules

PTS: 1                      REF: 46

2. In C++, a module can be a class or a(n) \_\_\_\_\_.

ANS: function

PTS: 1 REF: 46

3. In an object-oriented language, such as C++, a(n) \_\_\_\_\_ encapsulates both data and sets of operations.

ANS: class

PTS: 1 REF: 47

4. In a function header, the \_\_\_\_\_ before the function name defines the type of value the function returns when it has completed operating.

ANS: keyword

PTS: 1 REF: 49

5. Each \_\_\_\_\_ inside the function body must end with a semicolon (;).

ANS: statement

PTS: 1 REF: 50

6. The output object that sends data it receives to the standard display device, or console, is called \_\_\_\_\_.

ANS: cout

PTS: 1 REF: 50

7. The \_\_\_\_\_ and ostream classes provide the data declarations and methods used for data input and output, respectively.

ANS: istream

PTS: 1 REF: 51

8. C++ supports two types of comments: line and \_\_\_\_\_.

ANS: block

PTS: 1 REF: 57

9. A(n) \_\_\_\_\_ is defined as a set of values and a set of operations that can be applied to these values.

ANS:  
data type  
class

PTS: 1 REF: 60

10. In C++, a(n) \_\_\_\_\_ character changes the normal interpretation of the character following it and alters its meaning.

ANS: `escape`

PTS: 1                    REF: 52

11. The \_\_\_\_\_ data type is used to store single characters.

ANS: `char`

PTS: 1                    REF: 62

12. A(n) \_\_\_\_\_ data type allows negative values to be stored as well as zero and positive values.

ANS: `signed`

PTS: 1                    REF: 66

13. In C++, a(n) \_\_\_\_\_ is any combination of operators and operands that can be evaluated to yield a value.

ANS: `expression`

PTS: 1                    REF: 73

14. A(n) \_\_\_\_\_ statement names a variable and specifies the data type that can be stored in it.

ANS: `declaration`

PTS: 1                    REF: 80

15. Variables used to hold single-precision values are declared by using the keyword \_\_\_\_\_.

ANS: `float`

PTS: 1                    REF: 67

16. Every variable has three major items associated with it: its data type, the value stored in it, and its \_\_\_\_\_.

ANS: `address`

PTS: 1                    REF: 87

17. Forgetting to enclose a string sent to \_\_\_\_\_ with quotation marks is a common programming error.

ANS: `cout`

PTS: 1

REF: 97