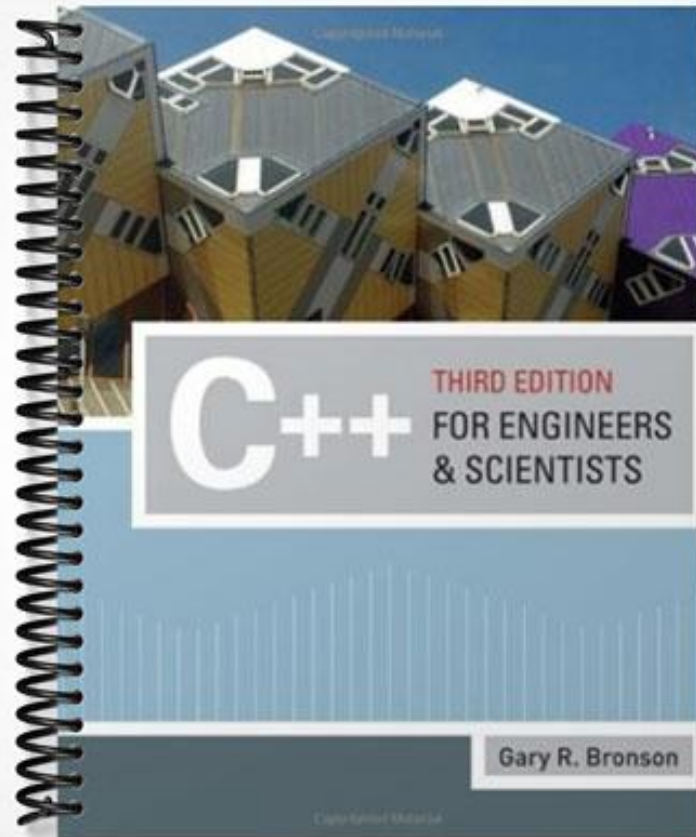


TEST BANK



C++

THIRD EDITION
**FOR ENGINEERS
& SCIENTISTS**

Gary R. Bronson

Ch02

True/False

Indicate whether the statement is true or false.

- 1. Modular programs are easier to develop, correct, and modify than programs constructed in some other manner.
- 2. In C++, modules can only be classes.
- 3. A function encapsulates both data and one or more sets of operations.
- 4. One important requirement for designing a good function is giving it a name that conveys some idea of what the function does.
- 5. Except for strings, double quotes, identifiers, and keywords, C++ ignores all white space.
- 6. C++ is a case-sensitive language.
- 7. The keyword before the function name defines the type of value the function returns when it has completed operating.
- 8. Each statement inside the function must end with a colon (:).
- 9. Programs in C++ can have more than one `main()` function.
- 10. The `istream` and `ostream` classes provide the data declarations and methods used for data input and output, respectively.
- 11. Preprocessor commands end with a semicolon.
- 12. In C++, the backslash (\) character provides an “escape” from the normal interpretation of the character following it and alters its meaning.
- 13. C++ supports two types of comments: line and block.
- 14. A data type is defined as a set of values and a set of operations that can be applied to these values.
- 15. C++ provides ten built-in integer data types.
- 16. The `int` data type is used to store single characters.
- 17. A signed data type permits storing negative values in addition to zero and positive values.
- 18. You cannot add and subtract character data and mix it with integer data to produce useful results.
- 19. An expression is any combination of operators and operands that can be evaluated to yield a value.
- 20. To name a variable and specify the data type that can be stored in it, you use declaration statements.
- 21. Variables used to hold single-precision values are declared by using the keyword `double`.
- 22. Although declaration statements can be placed anywhere in a function, typically they’re grouped together and placed after the function’s opening brace.
- 23. Every variable has three major items associated with it: its data type, the value stored in it, and its address.
- 24. Omitting the parentheses after `main()` is a common programming error.
- 25. Closing a string sent to `cout` with a double quote symbol is a common programming error.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 26. Programs with a structure consisting of interrelated segments, called ____, are arranged in a logical, easily understandable order to form an integrated and complete unit.
- a. blocks
 - b. modules
 - c. units
 - d. procedures
- ___ 27. ____ programs are easier to develop, correct, and modify than programs constructed in some other manner.
- a. Modular
 - b. Handwritten
 - c. Sequential
 - d. Low-level
- ___ 28. A ____ contains both data and functions appropriate for manipulating the data.
- a. segment
 - b. block
 - c. class
 - d. function
- ___ 29. A(n) ____ is a word the language sets aside for a special purpose and can be used only in a specified manner.
- a. codeword
 - b. keyword
 - c. identifier
 - d. classname
- ___ 30. The maximum number of characters in a function name is ____.
- a. 128
 - b. 256
 - c. 512
 - d. 1024
- ___ 31. A(n) ____ is a word designed as a memory aid.
- a. mnemonic
 - b. keyword
 - c. reserved word
 - d. identifier
- ___ 32. The `main()` function is referred to as a(n) ____ function because it tells other functions the sequence in which they execute.
- a. logical
 - b. auxiliary
 - c. driver
 - d. class
- ___ 33. Data transmitted to a function at runtime is referred to as the ____ of the function.
- a. return value
 - b. arguments
 - c. body
 - d. structure
- ___ 34. The ____ is an output object that sends data it receives to the standard display device.
- a. `out`
 - b. `cin`
 - c. `print`
 - d. `cout`
- ___ 35. Preprocessor commands begin with a(n) ____ sign.
- a. `#`
 - b. `!`
 - c. `//`
 - d. `*/`
- ___ 36. ____ in C++ are any combination of letters, numbers, and special characters enclosed in quotation marks.
- a. Arrays
 - b. Strings
 - c. Enums
 - d. Objects
- ___ 37. The newline escape sequence is ____.
- a. `\l`
 - b. `\r`
 - c. `\n`
 - d. `\t`
- ___ 38. ____ are explanatory remarks made in a program.
- a. Comments
 - b. Strings
 - c. Escape sequences
 - d. Classes
- ___ 39. A ____ begins with two slashes (`//`) and continues to the end of the line.

- a. program comment
b. function comment
c. block comment
d. line comment
- ___ 40. A(n) ___ is an acceptable value for a data type.
a. primitive value
b. literal
c. built-in value
d. class value
- ___ 41. The three most important and common integer types used in most applications are `int`, `char`, and _____.
a. `long int`
b. `unsigned char`
c. `bool`
d. `long`
- ___ 42. The C++ operator ___ provides the number of bytes used to store values for any data type named in the operator's parentheses.
a. `size()`
b. `sizeof()`
c. `length()`
d. `lengthof()`
- ___ 43. A(n) ___ number, more commonly known as a real number, can be the number zero or any positive or negative number that contains a decimal point.
a. boolean
b. integer
c. `long int`
d. floating-point
- ___ 44. A(n) ___ is an item used to manipulate how the output stream of characters is displayed.
a. manipulator
b. escape sequence
c. string
d. char object
- ___ 45. A(n) ___ is simply a name the programmer assigns to refer to computer storage locations.
a. constant
b. variable
c. expression
d. identifier
- ___ 46. 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
- ___ 47. 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
- ___ 48. The value stored in the variable is referred to as the variable's _____.
a. address
b. location
c. data
d. contents
- ___ 49. To determine the address of a variable, we can use C++'s address operator, ____, which means "the address of."
a. *
b. =
c. &
d. !
- ___ 50. A common programming error consists of forgetting to separate data streams sent to `cout` with the insertion symbol, _____.
a. <
b. >
c. >>
d. <<

Ch02

Answer Section

TRUE/FALSE

1.	ANS: T	PTS: 1	REF: 44
2.	ANS: F	PTS: 1	REF: 44
3.	ANS: F	PTS: 1	REF: 44
4.	ANS: T	PTS: 1	REF: 45
5.	ANS: T	PTS: 1	REF: 54
6.	ANS: T	PTS: 1	REF: 46
7.	ANS: T	PTS: 1	REF: 46
8.	ANS: F	PTS: 1	REF: 46
9.	ANS: F	PTS: 1	REF: 46
10.	ANS: T	PTS: 1	REF: 48
11.	ANS: F	PTS: 1	REF: 48
12.	ANS: T	PTS: 1	REF: 50
13.	ANS: T	PTS: 1	REF: 55
14.	ANS: T	PTS: 1	REF: 58
15.	ANS: F	PTS: 1	REF: 59
16.	ANS: F	PTS: 1	REF: 60
17.	ANS: T	PTS: 1	REF: 64
18.	ANS: F	PTS: 1	REF: 68
19.	ANS: T	PTS: 1	REF: 70
20.	ANS: T	PTS: 1	REF: 78
21.	ANS: F	PTS: 1	REF: 78
22.	ANS: T	PTS: 1	REF: 78
23.	ANS: T	PTS: 1	REF: 85
24.	ANS: T	PTS: 1	REF: 94
25.	ANS: F	PTS: 1	REF: 94

MULTIPLE CHOICE

26.	ANS: B	PTS: 1	REF: 43
27.	ANS: A	PTS: 1	REF: 44
28.	ANS: C	PTS: 1	REF: 45
29.	ANS: B	PTS: 1	REF: 45
30.	ANS: D	PTS: 1	REF: 45
31.	ANS: A	PTS: 1	REF: 46
32.	ANS: C	PTS: 1	REF: 46
33.	ANS: B	PTS: 1	REF: 46
34.	ANS: D	PTS: 1	REF: 48
35.	ANS: A	PTS: 1	REF: 48
36.	ANS: B	PTS: 1	REF: 50
37.	ANS: C	PTS: 1	REF: 50
38.	ANS: A	PTS: 1	REF: 55

39.	ANS: D	PTS: 1	REF: 55
40.	ANS: B	PTS: 1	REF: 58
41.	ANS: C	PTS: 1	REF: 59
42.	ANS: B	PTS: 1	REF: 62
43.	ANS: D	PTS: 1	REF: 65
44.	ANS: A	PTS: 1	REF: 70
45.	ANS: B	PTS: 1	REF: 76
46.	ANS: B	PTS: 1	REF: 79
47.	ANS: A	PTS: 1	REF: 82
48.	ANS: D	PTS: 1	REF: 85
49.	ANS: C	PTS: 1	REF: 86
50.	ANS: D	PTS: 1	REF: 95