Starting Out With C++ From Control Structures To Objects 9th Edition Gaddis Test Bank

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Starting Out with C++ from Control Structures to Objects, 9e (Gaddis) Chapter 2 Introduction to C++

TRUE/FALSE

1. The preprocessor reads a program before it is compiled and only executes those lines beginning with **#** symbol.

ANS: T

2. Because C++ is case-sensitive, all programs must have a function called main or Main.

ANS: F

3. In programming, the terms "line" and "statement" always mean the same thing.

ANS: F

4. In C++, key words are written in all lowercase letters.

ANS: T

5. The preprocessor executes after the compiler.

ANS: F

6. A value is stored in a variable with an assignment statement.

ANS: T

7. Programming style refers to the way a programmer uses elements such as identifiers, spaces, and blank lines.

ANS: T

8. When typing your source code into the computer, you should be careful since most of your C++ instructions, header files, and variable names are case sensitive.

ANS: T

9. In C++ you are required to name your variables so they indicate the purpose they will be used for.

ANS: F

10. Escape sequences are always stored internally as a single character.

ANS: T

11. Floating point constants are normally stored in memory as doubles.

ANS: T

12. C++ does not have a built-in data type for storing strings of data.

ANS: T

13. A named constant is like a variable, but it its content cannot be changed while the program is running.

ANS: T

14. C++ 11 introduced an alternative way to define variables, using the **template** key word and an initialization value.

ANS: F

MULTIPLE CHOICE

- 1. In a C++ program, two slash marks (//) indicate
 - a. the end of a statement
 - b. the beginning of a comment
 - c. the end of a program
 - d. the beginning of a block of code
 - e. None of these

ANS: B

- 2. A statement that starts with a hashtag (or pound) symbol (#) is called a
 - a. comment
 - b. function
 - c. preprocessor directive
 - d. header file
 - e. None of these

ANS: C

- 3. For every opening brace $({})$ in a C++ program, there must be a
 - a. string literal
 - b. function
 - c. comment
 - d. closing brace
 - e. None of these

ANS: D

- 4. The ______ is(are) used to display information on the computer's screen.
 - a. opening and closing braces
 - b. opening and closing quotation marks

- c. cout object
- d. backslash
- e. None of these

ANS: C

5. In the following statement, the characters **Hello!** are a(n)

cout << "Hello!";</pre>

- a. variable
- b. string literal
- c. comment
- d. object
- e. None of these

ANS: B

6. The ______ causes the content of another file to be inserted into a program.

- a. cout object
- b. double slash (//)
- c. **#include** directive
- d. semicolon(;)
- e. None of these

ANS: C

- 7. Which of the following must be included in any program that uses the **cout** object?
 - a. opening and closing braces
 - b. the header file iostream
 - c. comments
 - d. a namespace
 - e. None of these

ANS: B

- 8. Character constants in C++ are always enclosed in
 - a. brackets (< >)
 - b. braces (**{ })**
 - c. single quotation marks (' ')
 - d. pound sign and semicolon (# ;)
 - e. Any of these

ANS: C

- 9. Every complete C++ program must have a
 - a. comment
 - b. function named main
 - c. symbolic constant
 - d. cout statement
 - e. None of these

ANS: B

10. In a **cout** statement, which of the following will advance the output position to the beginning of the next line?

```
a. endl or \n
b. endl or /n
c. \n or \t
d. \t or \b
e. \\ or \'
```

ANS: A

11. What will the following code display?

```
cout << "Monday";
cout << "Tuesday";
cout << "Wednesday";</pre>
```

- a. Monday
 Tuesday
 Wednesday
 b. Monday Tuesday Wednesday
- c. MondayTuesdayWednesday
- d. "Monday"
 "Tuesday"
 "Wednesday"
 e. "Monday" "Tuesday" "Wednesday"

ANS: C

12. What will the following code display?

```
int number = 23;
cout << "The number is " << "number" << endl;
a. The number is 23
b. The number is 23
c. The number is number
d. The number is null
e. The number is
ANS: C
```

13. What will the following code display?

```
cout << "Four\n" << "score\n";
cout << "and" << "\nseven";
cout << "\nyears" << " ago" << endl;
a. Four
score
and
seven
years ago
b. Four score and seven
years ago
c. Four
score
```

```
and seven
years ago
d. Four score
and seven
years ago
```

ANS: A

14. What will the following code display?

```
cout << "Roses " << "are red";
cout << "and " << "violets/n"
cout << "are" << "blue" << endl;
a. Roses are red
and violets
are blue
b. Roses are red and violets/nare blue
c. Roses are redand violets/nareblue
d. Roses are red and violets/n are blue
```

ANS: C

- 15. Which control sequence is used to skip over to the next horizontal tab stop?
 - a. **\n**
 - b. end1
 - c. \t
 - d. \b
 - e. \'

ANS: C

16. A(n) ______ represents a storage location in the computer's memory.

- a. literal
- b. variable
- c. comment
- d. integer
- e. None of these

ANS: B

- 17. Data items whose values do not change while the program is running are
 - a. literals
 - b. variables
 - c. characters
 - d. integers
 - e. None of these

ANS: A

- 18. A variable definition tells the computer
 - a. the variable's name and its value
 - b. the variable's data type and its value
 - c. the variable's name and the type of data it will hold
 - d. whether the variable is an integer or a floating-point number

e. None of these

ANS: C

- 19. You must have a ______ for every variable you intend to use in a program.
 - a. purpose
 - b. variable definition
 - c. memory space
 - d. literal value
 - e. None of these

ANS: B

20. Which of the following is *not* a valid C++ identifier?

```
a. April2018
b. employee_number
c. _luser
d. luser
e. theLittleBrownFoxWhoRanAway
```

ANS: D

21. What will the following code display?

```
int x = 23, y = 34, z = 45;
cout << x << y << z << endl;
a. 23 34 45
b. 23
    34
    45
c. xyz
d. 233445
ANS: D
```

- 22. The numeric data types in C++ can be broken into two general categories which are
 - a. numbers and characters
 - b. singles and doubles
 - c. integers and floating-point numbers
 - d. real and unreal numbers
 - e. numbers and literals

ANS: C

- 23. Besides the decimal number system that is most common (base 10), two other number systems that can be used in C++ programs are
 - a. octal and fractal
 - b. octal and hexadecimal
 - c. base 2 and base 4
 - d. base 2 and binary
 - e. None of these

ANS: B

- 24. A character literal is _____, whereas a string literal is _____
 - a. enclosed in quotation marks, enclosed in brackets
 - b. enclosed in brackets, enclosed in quotation marks
 - c. enclosed in double quotation marks, enclosed in single quotation marks
 - d. enclosed in single quotation marks, enclosed in double quotation marks
 - e. None of these

ANS: D

- 25. Which data type typically requires only one byte of storage?
 - a. short
 - b. int
 - c. float
 - d. char
 - e. string

ANS: D

- 26. In C++11, if you want an integer literal to be treated as a **long long int**, you can append ______ at the end of the number.
 - а. L
 - b. **<L** L>
 - c. LONG LONG
 - d. LL
 - e. **<LONG>**

ANS: D

- 27. The data type used to declare variables that can hold real numbers is
 - a. short
 - b. int
 - c. float
 - d. char
 - e. double

ANS: C

- 28. The **float** data type is considered ______ precision and the **double** data type is considered ______ precision.
 - a. single, double
 - b. double, single
 - c. floating-point, double
 - d. floating-point, integer
 - e. None of these

ANS: A

- 29. Which of the following statements correctly assigns the character **M** to the variable named **letter**?
 - a. letter = M
 b. letter = "M";
 c. letter = 'M';
 d. letter = (M);

```
e. letter = M;
```

ANS: C

30. Which of the following lines *must* be included in a program that has string variables?

```
a. #include (string class)
b. #include namespace std;
c. #include <string>
d. string var;
e. None of these
```

ANS: C

31. Assuming that a program has the following **string** object definition, which statement correctly assigns the string literal "**Jane**" to the **string** object?

```
string name;
a. name = Jane;
b. name = 'Jane';
c. name = "Jane";
d. name = <Jane>;
e. string name = {Jane};
```

ANS: C

32. In memory, C++ automatically places a(n) ______ at the end of string literals which ______.

- a. semicolon, indicates the end of the statement
- b. **\n**, indicates an escape sequence
- c. null terminator, marks the end of the string
- d. bracket, marks the end of the string
- e. None of these

ANS: C

33. Which of the following defines a double-precision floating-point variable named **payCheck**?

```
a. float payCheck;
```

```
b. double payCheck;
```

- c. payCheck double;
- d. Double payCheck;

ANS: B

- 34. The data type of a variable whose value can be either **true** or **false** is
 - a. int
 - b. binary
 - c. bool

```
d. Boolean
```

e. **T/F**

ANS: C

35. What will be the output after the following lines of code execute?

bool choice;

```
choice = true;
cout << "Your choice is " << choice << endl;
a. true
b. Your choice is true
c. Your choice is 1
d. Your choice is choice
e. None of these
ANS: C
```

36. Using C++11: What data type does the compiler determine for the variable **cost** in the following statement?

auto cost = 14.95; a. int

- b. double
- c. bool
- d. char
- e. string

ANS: B

- 37. A variable's ______ is the part of the program that has access to the variable.
 - a. data type
 - b. value
 - c. scope
 - d. assignment
 - e. None of these

ANS: C

38. What is the value stored in the variable myNum after the following assignment statement executes?

```
myNum = 23 % 5
a. 3
b. 4
c. 4.6
d. 115
e. None of these
```

- ANS: A
- 39. What is the value of **cookies** after the following statements execute?

```
int number = 38, children = 4, cookies;
cookies = number % children;
a. 2
b. 4
c. 9
d. 9.5
e. .5
ANS: A
```

40. What is the value of **number** after the following statements execute?

```
int number;
number = 18 / 4;
a. 4.5
b. 4
c. 2
d. 0
e. unknown
ANS: B
```

41. What is the value of **number** after the following statements execute?

```
int number;
number = 18 % 4 + 2;
a. 3
b. 4
c. 6.5
d. 0
e. unknown
ANS: B
```

42. What is output of the following statement?

```
cout << 4 * (15 / (1 + 3)) << endl;
a. 15
b. 12
c. 63
d. 72
e. None of these
ANS: B
```

43. Which part of the following line is ignored by the compiler?

```
double userName = "janedoe"; // user's name is janedoe
a. "janedoe"
b. user's name is
c. user's name is janedoe
d. //
e. None of these
```

ANS: C

```
44. A multi-line comment
```

- a. begins with /* and ends with */
- b. can be used to mark as many lines as desired as comments
- c. allows everything in the selected lines to be ignored
- d. All of these are true

ANS: D

45. Which of the following statements correctly defines a named constant named **TAX_RATE** that holds the value **0.075**?

```
a. double TAX_RATE = 0.075;
b. const TAX_RATE;
double TAX_RATE = 0.075;
c. const double TAX_RATE = 0.075;
d. double TAX_RATE;
const TAX_RATE = 0.075;
e. const TAX_RATE = 0.075;
ANS: C
```

46. Given the following program, which line(s) cause(s) output to be displayed on the screen?

```
1
          // This program displays my gross wages.
   2
          // I worked 40 hours and I make $20.00 per hour.
   3
          #include <iostream>
          using namespace std;
   4
   5
   6
          int main()
   7
          {
   8
             int hours;
   9
             double payRate, grossPay;
   10
              hours = 40;
   11
   12
              payRate = 20.0;
   13
              grossPay = hours * payRate;
              cout << "My gross pay is $" << grossPay << endl;</pre>
   14
   15
              return 0;
   16
          }
a. lines 13 and 14
b. lines 8 and 9
c. line 14
d. lines 14 and 15
e. line 15
ANS: C
```

MULTIPLE RESPONSE

- 1. Select all that apply. Which of the following statements is(are) true about named constants?
 - a. A named constant must be all uppercase.
 - b. The content of a named constant is read-only.
 - c. The value of a named constant cannot be changed while the program is running.
 - d. A named constant is defined using the **const** qualifier.
 - e. None of these

ANS: B, C, D

- 2. Select all that apply. Using C++11: Which of the following can be used to initialize an integer variable named **dozen** with the value of **12**?
 - a. int dozen = 12;
 - b. int dozen(12);

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c. int dozen = {12}; d. int dozen = (12); e. int dozen {12};

ANS: A, B, E