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Starting Out with C++ from Control Structures to Objects, 8e (Gaddis) Chapter 2 Introduction to C++

2.1	Multiple Choice Questions
1) In	a C++ program, two slash marks (//) indicate:
A) Th	ne end of a statement
	e beginning of a comment
	ne end of the program
-	ne beginning of a block of code
	one of the above
Ansv	ver: B
2) A	statement that starts with a # symbol is called a:
A) Co	omment
B) Fu	nction
C) Pr	eprocessor directive
D) Ke	ey word
E) No	one of the above
Ansv	ver: C
3) Fo	r every opening brace in a C++ program, there must be a:
A) St	ring literal
B) Fu	nction
C) Va	nriable
D) Cl	osing brace
E) No	one of the above
Ansv	ver: D
4) Th	e is/are used to display information on the computer's screen.
A) O	pening and closing braces
B) Op	pening and closing quotation marks
C) c	out object
D) Ba	nckslash
E) No	one of the above
Ansv	ver: C
	e causes the contents of another file to be inserted into a program.
A) Ba	nckslash
B) Po	und sign
C) Se	micolon

D) #include directive E) None of the above

Answer: D

6) represent storage locations in the computer's memory.
A) Literals
B) Variables
C) Comments
D) Integers
E) None of the above
Answer: B
7) These are data items whose values do not change while the program is running.
A) Literals
B) Variables
C) Comments
D) Integers
E) None of the above
Answer: A
Allswei. A
8) You must have a for every variable you intend to use in a program.
A) purpose
B) definition
C) comment
D) constant
E) None of the above
Answer: B
9) Of the following, which is a valid C++ identifier?
A) June1997
B) employee number
C) department
D) myExtraLongVariableName
E) All of the above are valid identifiers.
Answer: E
10) The numeric data types in C++ can be broken into two general categories:
A) numbers and characters
,
B) singles and doubles C) integer and floating point
C) integer and floating point
D) real and unreal
E) None of the above
Answer: C
44) P. 11 . 1 . 1
11) Besides decimal, two other number systems you might encounter in C++ programs are:
A) Octal and Fractal
B) Hexadecimal and Octal
C) Unary and Quaternary
D) Base 7 and Base 9
E) None of the above
Answer: B

quotation marks.	
A) double, single B) triple, double	
C) open, closed	
D) single, double	
E) None of the above	
Answer: D	
13) In memory, C++ automatically places a at the end of string literals.	
A) Semicolon	
B) Quotation marks	
C) Null terminator	
D) Newline escape sequence	
E) None of the above	
Answer: C	
14) Which escape sequence causes the cursor to move to the beginning of the current line?	
A) \n	
B) \t	
C) \a	
D) \b	
E)\r	
Answer: E	
15) What is the modulus operator?	
A) +	
B) *	
C) &	
D) %	
E)	
Answer: D	
16) Which data type typically requires only one byte of storage?	
A) short	
B) int	
C) float	
D) char	
E) double	
E) doubte	

cout << 4 * (15 / (1 + 3)) << endl;
A) 15 B) 12 C) 63 D) 72 E) None of these Answer: B
18) In programming terms, a group of characters inside a set of quotation marks is called a(n): A) String literal B) Variable C) Operation D) Statement E) None of the above Answer: A
19) This is used to mark the end of a complete C++ programming statement. A) Pound Sign B) Semicolon C) Data type D) Void E) None of the above Answer: B
20) Which character signifies the beginning of an escape sequence? A) // B) / C) \ D) # E) { Answer: C
21) must be included in any program that uses the cout object. A) Opening and closing braces B) The header file iostream C) Comments D) Escape sequences E) None of the above Answer: B

17) What is the output of the following statement?

- 22) If you use a C++ key word as an identifier, your program will:
- A) Execute with unpredictable results
- B) not compile
- C) understand the difference and run without problems
- D) Compile, link, but not execute
- E) None of the above

Answer: B

23) What is the value of cookies after the execution of the following statements?

```
int number = 38, children = 4, cookies;
cookies = number % children;
```

- A) 2
- B) 0
- C) 9
- D) .5
- E) None of these

Answer: A

- 24) This function in C++ allows you to identify how many bytes of storage on your computer system an integer data value requires.
- A) len
- B) bytes
- C) f(x)
- D) int
- E) sizeof

Answer: E

- 25) Character constants in C++ are always enclosed in _____.
- A) [brackets]
- B) "double quotation marks"
- C) 'single quotation marks'
- D) {braces}
- E) (parentheses)

Answer: C

- 26) These are used to declare variables that can hold real numbers.
- A) Integer data types
- B) Real data types
- C) Floating point data types
- D) Long data types
- E) None of the above

Answer: C

27) The float data type is considered	, precision, and the double data type is considere
precision.	
A) single, double	
B) float, double	
C) integer, double	
D) short, long	
-	
E) None of the above	
Answer: A	
20) A	
28) A variable whose value can be either true o	r Talse is of this data type.
A) binary	
B) bool	
C) T/F	
D) float	
E) None of the above	
Answer: B	
29) Which of the following correctly consolidates	the following declaration statements into one
statement?	
int $x = 7$;	
int $y = 16;$	
int $z = 28;$	
16 00	
A) int $x = 7$; $y = 16$; $z = 28$;	
B) int $x = 7$ $y = 16$ $z = 28$;
C) int x, y, $z = 7$, 16, 28	
D) int $x = 7$, $y = 16$, $z = 28$;	
E) None of these will work.	
Answer: D	
30) A variable's is the part of the progra	am that has access to the variable.
A) data type	
B) value	
C) scope	
D) reach	
E) None of the above	
Answer: C	
31) Every complete C++ program must have a	
A) comment	 ·
B) function named main	
•	
C) preprocessor directive	
D) symbolic constant	
E) cout statement	
Answer: B	

```
32) This control sequence is used to skip over to the next horizontal tab stop.
```

- **A)** \n
- **B)** \h
- C) \t
- D) \a
- E) \ '

Answer: C

- 33) Which one of the following would be an illegal variable name?
- A) dayOfWeek
- B) 3dGraph
- C) _employee_num
- D) June1997
- E) itemsorderedforthemonth

Answer: B

34) Look at the following program and answer the question that follows it.

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

Which line(s) in this program cause output to be displayed on the screen?

- A) 13 and 14
- B) 8 and 9
- C) 14
- D) 13
- E) 15

Answer: C

```
35) 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;
Answer: B
36) What will the following code display?
      cout << "Monday";</pre>
      cout << "Tuesday";</pre>
      cout << "Wednesday";</pre>
A) Monday
  Tuesday
  Wednesday
B) Monday Tuesday Wednesday
C) MondayTuesdayWednesday
D) "Monday"
  "Tuesday"
  "Wednesday"
Answer: C
37) What will the following code display?
      int number = 7;
      cout << "The number is " << "number" << endl;</pre>
A) The number is 7
B) The number is number
```

C) The number is7
D) The number is 0

Answer: B

38) What will the following code display?

```
int x = 0, y = 1, z = 2;
cout << x << y << z << endl;
```

- A) 0 1 2
- B) 0 1 2
- C) xyz
- **D)** 012

Answer: D

39) What will the following code display?

```
cout << "Four\n" << "score\n";
cout << "and" << "\nseven";
cout << "\nyears" << " ago" << endl;</pre>
```

- A) Four score and seven years ago
- $B) \; \mbox{Four score} \; \mbox{and seven} \; \mbox{years ago} \; \mbox{}$
- C) Four
 score
 and seven
 years ago
- D) Four score and seven years ago

Answer: A

40) What will the following code display?

```
cout << "Four " << "score ";
cout << "and " << "seven/n";
cout << "years" << "ago" << endl;</pre>
```

- A) Four score and seven yearsago
- B) Four score and seven years ago
- C) Four score and seven/nyearsago
- D) Four score and seven yearsago Answer: C

41) What will the following code display?

```
cout << "Four" << "score" << endl;
cout << "and" << "seven" << endl;
cout << "years" << "ago" << endl;</pre>
```

- A) Four score and seven years ago
- B) Four score and seven years ago
- C) Fourscoreandsevenyearsago
- D) Fourscore andseven yearsago Answer: D

42) Assume that a program has the following variable definition:

```
char letter;
```

Which of the following statements correctly assigns the character Z to the variable?

- A) letter = Z;
- B) letter = "Z";
- C) letter = 'Z';
- D) letter = (Z);

Answer: C

43) What will the value of x be after the following statements execute?

int x;
$$x = 18 / 4;$$

- A) 4.5
- B) 4
- C) 0
- D) unknown

Answer: B

44) What will the value of x be after the following statements execute?

int x;
$$x = 18.0 / 4;$$

- A) 4.5
- B) 4
- C) 0
- D) unknown

Answer: A

45) What will the value of x be after the following statements execute?

- A) 0.45
- B) 4
- C) 2
- D) unknown

Answer: C

46) Assuming you are using a system with 1-byte characters, how many bytes of memory will the following string literal occupy?
"William"
A) 7 B) 14 C) 8 D) 1 Answer: C
47) The first step in using the string class is to #include the header file. A) iostream B) cctype C) cmath D) string E) None of the above Answer: D
48) Assume that a program has the following string object definition:
string name;
<pre>Which of the following statements correctly assigns a string literal to the string object? A) name = Jane; B) name = "Jane"; C) name = 'Jane'; D) name = (Jane); Answer: B</pre>
49) 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. A) L B) <int> C) I D) LL E) None of the above Answer: D</int>
50) In C++ 11, the tells the compiler to determine the variable's data type from the initialization value. A) auto key word B) #include preprocessor directive C) variable's name D) dynamic_cast key word E) None of the above Answer: A

2.2 True/False Questions

1) True/False: When typing in your source code into the computer, you must be very careful since most of your C++ instructions, header files, and variable names are case sensitive.

Answer: TRUE

2) True/False: A preprocessor directive does not require a semicolon at the end.

Answer: TRUE

3) True/False: The C++ language requires that you give variables names that indicate what the variables

are used for.
Answer: FALSE

4) True/False: A variable called "average" should be declared as an integer data type because it will probably hold data that contains decimal places.

Answer: FALSE

5) True/False: Escape sequences are always stored internally as a single character.

Answer: TRUE

6) True/False: Floating point constants are normally stored in memory as doubles.

Answer: TRUE

7) True/False: C++ does not have a built in data type for storing strings of characters.

Answer: TRUE

8) True/False: If you do not follow a consistent programming style, your programs will generate

compiler errors. Answer: FALSE

9) True/False: When writing long integer literals or long long integer literals in C++ 11, you can use either an uppercase or lowercase L.

Answer: TRUE

10) True/False: C++ 11 introduces an alternative way to define variables, using the template key word and an initialization value.

Answer: FALSE