# Starting Out with Java From Control Structures through Objects 5th Edition Tony Gaddis Test Bank

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Gaddis: Starting Out with Java: From Control Structures through Objects, 5/e

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## Chapter 2

### MULTIPLE CHOICE

1.	Which one of the following would contain the translated Java byte code for a program named Demo?  a. Demo.java
	<ul><li>a. Demo.java</li><li>b. Demo.code</li></ul>
	c. Demo.class
	d. Demo.byte
	ANS: C
2.	To compile a program named First, use the following command:
	a. java First.java
	b. javac First
	<ul><li>c. javac First.java</li><li>d. compile First.javac</li></ul>
	u. compile rirec.javac
	ANS: C
_	
3.	A Java program must have at least one of these:  a. Class definition
	b. Variable
	c. Comment
	d. System.out.println(); statement
	ANS: A
4.	In Java, the beginning of a comment is marked with:
	a. //
	b. "" c. ;
	d. #
	ANS: A
5.	The term typically refers to the device that displays console output.
	<ul><li>a. Standard output device</li><li>b. Central processing unit</li></ul>
	c. Secondary storage device
	d. Liquid crystal display
	ANS: A
6.	In Java, must be declared before they can be used.
	a. Variables
	<ul><li>b. Literals</li><li>c. Key words</li></ul>
	d. Comments

ANS: A

7. If the following Java statements are executed, what will be displayed?

```
System.out.println("The top three winners are\n");
System.out.print("Jody, the Giant\n");
System.out.print("Buffy, the Barbarian");
System.out.println("Adelle, the Alligator");
```

a. The top three winners are

Jody, the Giant

Buffy, the Barbarian

Adelle, the Alligator

- b. The top three winners are
  - Jody, the Giant\nBuffy, the BarbarianAdelle, the Alligator
- c. The top three winners are Jody, the Giant\nBuffy, the BarbarianAdelle, and the Albino
- d. The top three winners are

Jody, the Giant

Buffy, the Barbarian Adelle, the Alligator

ANS: D

- 8. This is a value that is written into the code of a program.
  - a. literal
  - b. assignment statement
  - c. variable
  - d. operator

ANS: A

- 9. When the + operator is used with strings, it is known as the:
  - a. Assignment operator
  - b. String concatenation operator
  - c. Addition operator
  - d. Combined assignment operator

ANS: B

10. What would be printed out as a result of the following code?

- a. The quick brown fox jumped over the \nslow moving hen.
- b. The quick brown fox jumped over the slow moving hen.
- c. The quick brown fox jumped over the slow moving hen.
- d. Nothing. This is an error.

ANS: D

11. Which of the following is not a rule that must be followed when naming identifiers?

- a. The first character must be one of the letters a-z, A-Z, and underscore or a dollar sign.
- b. Identifiers can contain spaces.
- c. Uppercase and lowercase characters are distinct.
- d. After the first character, you may use the letters a-z, A-Z, the underscore, a dollar sign, or digits 0-9.

#### ANS: B

- 12. Which of the following cannot be used as identifiers in Java?
  - a. Variable names
  - b. Class names
  - c. Key words
  - d. All of the above
  - e. None of the above

#### ANS: C

- 13. In Java, it is standard practice to capitalize the first letter of:
  - a. Class names
  - b. Variable names
  - c. Key words
  - d. Literals

### ANS: A

- 14. Which of the following is not a primitive data type?
  - a. short
  - b. long
  - c. float
  - d. String

#### ANS: D

15. Which of the following is valid?

```
a. float y; y = 54.9;
```

b. float y;
 double z;
 z = 934.21;
 y = z;

c. float w; w = 1.0f;

d. float v; v = 1.0;

## ANS: C

- 16. The boolean data type may contain values in the following range of values
  - a. true or false

- b. -128 to + 127
- c. -2,147,483,648 to +2,147,483,647
- d. -32,768 to +32,767

#### ANS: A

- 17. Character literals are enclosed in \_\_\_\_\_; string literals are enclosed in \_\_\_\_\_.
  - a. single quotes; single quotes
  - b. double quotes; double quotes
  - c. single quotes; double quotes
  - d. double quotes; single quotes

#### ANS: C

18. What is the result of the following expression?

- a. -5
- b. 5
- c. 25
- d. -50

#### ANS: B

19. What is the result of the following expression?

- a. 19
- b. 5.25
- c. 3
- d. 7

ANS: D

20. What will be displayed as a result of executing the following code?

- a. x = 32, y = 4
- b. x = 9, y = 52
- c. x = 37, y = 5
- d. x = 160, y = 80

ANS: C

21. What will be the value of z as a result of executing the following code?

```
int x = 5, y = 28;
float z;
z = (float) (y / x);
a. 5.60
b. 5.6
c. 3.0
d. 5.0
```

ANS: D

22. What will be the displayed when the following code is executed?

ANS: D

23. In the following Java statement what value is stored in the variable name?

```
String name = "John Doe";
```

- a. John Doe
- b. The memory address where "John Doe" is located
- c. name
- d. The memory address where name is located

ANS: B

24. What will be displayed as a result of executing the following code?

a. I am enjoying this class.

I AM ENJOYING THIS CLASS.

i am enjoying this class. Character at index x = emsg has 24 characters.

- b. I am enjoying this class. I AM ENJOYING THIS CLASS. i am enjoying this class. Character at index x = emsg has 25 characters.
- c. I am enjoying this class. I AM ENJOYING THIS CLASS. i am enjoying this class. Character at index x = nmsg has 24 characters.
- d. I am enjoying this class. I AM ENJOYING THIS CLASS. i am enjoying this class. Character at index x = nmsg has 25characters.

ANS: D

25. What will be displayed as a result of executing the following code?

```
public class test
   public static void main(String[] args)
      int value1 = 9;
      System.out.println(value1);
      int value2 = 45;
      System.out.println(value2);
      System.out.println(value3);
      value = 16;
   }
  9
   45
```

- 16
- b. 94516
- 9 45 16
- d. Nothing, this is an error

ANS: D

26. Which of the following is not a valid comment statement?

```
a. // comment 1
b. /* comment 2 */
c. */comment 3 /*
d. /** comment 4 */
```

ANS: C

- 27. When saving a Java source file, save it with an extension of
  - a. .javac
  - b. .class
  - c. .src
  - d. .java

ANS: D

- 28. Every Java application program must have
  - a. a class named MAIN
  - b. a method named main
  - c. comments
  - d. integer variables

ANS: B

- 29. To print "Hello, world" on the monitor, use the following Java statement
  - a. SystemOutPrintln("Hello, world");
  - b. System.out.println{"Hello, world"}
  - c. System.out.println("Hello, world");
  - d. Print "Hello, world";

ANS: C

- 30. To display the output on the next line, you can use the println method or use this escape sequence in the print method.
  - a. \n
  - b. \r

  - d. \b

ANS: A

- 31. This is a named storage location in the computer's memory.
  - a. Literal
  - b. Constant
  - c. Variable
  - d. Operator

ANS: C

32. What would be displayed as a result of the following code?

```
int x = 578;

System.out.print("There are " + x + 5 + "\n" +  "hens in the hen house.");
```

a. There are 583 hens in the hen house.

- b. There are 5785 hens in the hen house.
- c. There are x5\nhens in the hen house.
- d. There are 5785 hens in the hen house.

ANS: D

- 33. Variables are classified according to their
  - a. value
  - b. data type
  - c. names
  - d. location in the program

ANS: B

- 34. The primitive data types only allow a(n) \_\_\_\_\_ to hold a single value.
  - a. variable
  - b. object
  - c. class
  - d. literal

ANS: A

- 35. If x has been declared an int, which of the following statements is invalid?
  - a. x = 0;
  - b. x = -58932;
  - c. x = 1,000;
  - d. x = 592;

ANS: C

- 36. Given the declaration double r;, which of the following statements is invalid?
  - a. r = 326.75;
  - b. r = 9.4632e15;
  - c. r = 9.4632E15;
  - d. r = 2.9X106;

ANS: D

- 37. Variables of the boolean data type are useful for
  - a. working with small integers
  - b. evaluating true/false conditions
  - c. working with very large integers
  - d. evaluating scientific notation

ANS: B

38. What is the result of the following expression?

25 - 7 \* 3 + 12 / 3

- a. 6
- b. 8
- c. 10
- d. 12

#### ANS: B

39. What is the result of the following expression?

- a. 7
- b. 8
- c. 12
- d. 105

ANS: A

40. What will be displayed after the following statements have been executed?

- a. x = 27, y = 3.333, z = 18
- b. x = 27, y = 2, z = 18
- c. x = 27, y = 3, z = 18
- d. x = 37, y = 14, z = 4

ANS: C

41. What will be the value of z after the following statements have been executed?

int 
$$x = 4$$
,  $y = 33$ ;  
double z;  
 $z = (double) (y / x)$ ;

- a. 8.25
- b. 4
- c. 8
- d. 8.0

ANS: D

- 42. This is a variable whose content is read only and cannot be changed during the program's execution.
  - a. operator
  - b. literal
  - c. named constant

d. reserved word

ANS: C

43. What will be displayed after the following statements have been executed?

```
final double x; x = 54.3; System.out.println("x = " + x); a. x = 54.3 b. x c. x = 108.6 d. Nothing, this is an error.
```

ANS: D

44. Which of the following is a valid Java statement?

```
a. String str = 'John Doe';
b. string str = "John Doe";
c. string str = 'John Doe';
d. String str = "John Doe";
```

ANS: D

45. What will be displayed as a result of executing the following code?

```
int x = 8;
String msg = "I am enjoying java.";
String msg1 = msg.toUpperCase();
String msg2 = msg.toLowerCase();
char ltr = msg.charAt(x);
int strSize = msg.length();
System.out.println(msg);
System.out.println(msg1);
System.out.println(msg2);
System.out.println("Character at index x = " + ltr);
System.out.println("msg has " + strSize + " characters.");
```

- a. I am enjoying java.
   I AM ENJOYING JAVA.
   i am enjoying java.
   Character at index x = j msg has 20 characters.
- I am enjoying java.
   I AM ENJOYING JAVA.
   i am enjoying java.
   Character at index x = o msg has 20 characters.
- c. I am enjoying java.

#### I AM ENJOYING JAVA.

i am enjoying java. Character at index x = 0msg has 19 characters.

d. I am enjoying java.

I AM ENJOYING JAVA.

i am enjoying java.

Character at index x = y

msg has 19 characters.

#### ANS: C

- 46. Which of the following does not describe a valid comment in Java?
  - a. Single line comments, two forward slashes //
  - b. Multi-line comments, start with /\* and end with \*/
  - c. Multi-line comments, start with \*/ and end with /\*
  - d. Documentation comments, any comments starting with / \* \* and ending with \* /

## ANS: C

- 47. Which of the following statements correctly creates a Scanner object for keyboard input?
  - a. Scanner kbd = new Scanner(System.keyboard);
  - b. Scanner keyboard(System.in);
  - c. Scanner keyboard = new Scanner(System.in);
  - d. Keyboard scanner = new Keyboard(System.in);

ANS: C

- 48. Which Scanner class method reads an int?
  - a. readInt()

c. getInt()

b. nextInt()

d. read int()

ANS: B

- 49. Which Scanner class method reads a String?
  - a. readString()

c. getString()

b. nextString()

d. nextLine()

ANS: D

- 50. Which one of the following methods would you use to convert a string to a double?
  - a. Byte.ParseByte

c. Integer.ParseInt

b. Long.ParseLong

d. Double.ParseDouble

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ANS: D

#### TRUE/FALSE

1. A Java program will not compile unless it contains the correct line numbers.

ANS: F

2. All Java statements end with semicolons.

ANS: F

3. Java is a case-insensitive language.

ANS: F

4. Although the dollar sign is a legal identifier character, you should not use it because it is normally used for special purposes.

ANS: T

5. Assuming that pay has been declared a double, the following statement is valid.

$$pay = 2,583.44;$$

ANS: F

6. Named constants are initialized with a value, that value cannot be changed during the execution of the program.

ANS: T

7. A variable's scope is the part of the program that has access to the variable.

ANS: T

8. In Java the variable named total is the same as the variable named Total.

ANS: F

9. Class names and key words are examples of variables.

ANS: F

10. Both character literals and string literals can be assigned to a char variable.

ANS: F

11. If the compiler encounters a statement that uses a variable before the variable is declared, an error will result.

ANS: T

12. Programming style includes techniques for consistently putting spaces and indentation in a program so visual cues are created.

ANS: T