

Test Bank for Starting Out with Java From Control Structures through Objects 6th Edition Gaddis 0133957055 9780133957051

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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
 - b. Demo.code
 - 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
 - c. javac First.java
 - d. compile First.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.
 - a. Standard output device
 - b. Central processing unit

- c. Secondary storage device
- d. Liquid crystal display

ANS: A

6. In Java, _____ must be declared before they can be used.
- a. Variables
 - b. Literals
 - c. Key words
 - 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 BarbarianAdelle, 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?

```
System.out.println("The quick brown fox" +
                  "jumped over the \n")
```

```
"slow moving hen.");
```

- 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?

```
10 + 5 * 3 - 20
```

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

ANS: B

19. What is the result of the following expression?

```
25 / 4 + 4 * 10 % 3
```

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

ANS: D

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

```
int x = 5, y = 20;  
x += 32;
```

```
y /= 4;  
System.out.println("x = " + x + ", y = " + y);
```

- 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?

```
final int x = 22, y = 4;  
y += x;  
System.out.println("x = " + x +  
                    ", y = " + y);
```

- a. x = 22, y = 4
- b. x = 22, y = 26
- c. x = 22, y = 88
- d. Nothing, this is an error

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?

```
int x = 6;  
String msg = "I am enjoying this class."  
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 this class.
I AM ENJOYING THIS CLASS.
i am enjoying this class.
Character at index x = e
msg has 24 characters.
- b. I am enjoying this class.
I AM ENJOYING THIS CLASS.
i am enjoying this class.
Character at index x = e
msg has 25 characters.
- c. I am enjoying this class.
I AM ENJOYING THIS CLASS.
i am enjoying this class.
Character at index x = n
msg has 24 characters.
- d. I am enjoying this class.
I AM ENJOYING THIS CLASS.
i am enjoying this class.
Character at index x = n
msg 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;
    }
}
```

- a. 9
45
16
- b. 94516

- c. 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`
 - c. `\t`
 - 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
- working with small integers
 - evaluating true/false conditions
 - working with very large integers
 - evaluating scientific notation

ANS: B

38. What is the result of the following expression?

$$25 - 7 * 3 + 12 / 3$$

- 6
- 8
- 10
- 12

ANS: B

39. What is the result of the following expression?

$$17 \% 3 * 2 - 12 + 15$$

- 7
- 8
- 12
- 105

ANS: A

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

```
int x = 15, y = 20, z = 32;
x += 12;
y /= 6;
z -= 14;
System.out.println("x = " + x +
                   ", y = " + y +
                   ", z = " + z);
```

- `x = 27, y = 3.333, z = 18`
- `x = 27, y = 2, z = 18`
- `x = 27, y = 3, z = 18`
- `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 = 99.0;
x = 54.3;
System.out.println("x = " + x );
```

- a. x = 54.3
- b. x = 99
- c. x = 153.3
- 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.
- b. 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 = o
msg 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()`
 - b. `nextInt()`
 - c. `getInt()`
 - d. `read_int()`

ANS: B

49. Which Scanner class method reads a String?

- a. readString()
- b. nextString()
- c. getString()
- d. nextLine()

ANS: D

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

- a. Byte.ParseByte
- b. Long.parseLong
- c. Integer.parseInt
- d. Double.parseDouble

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