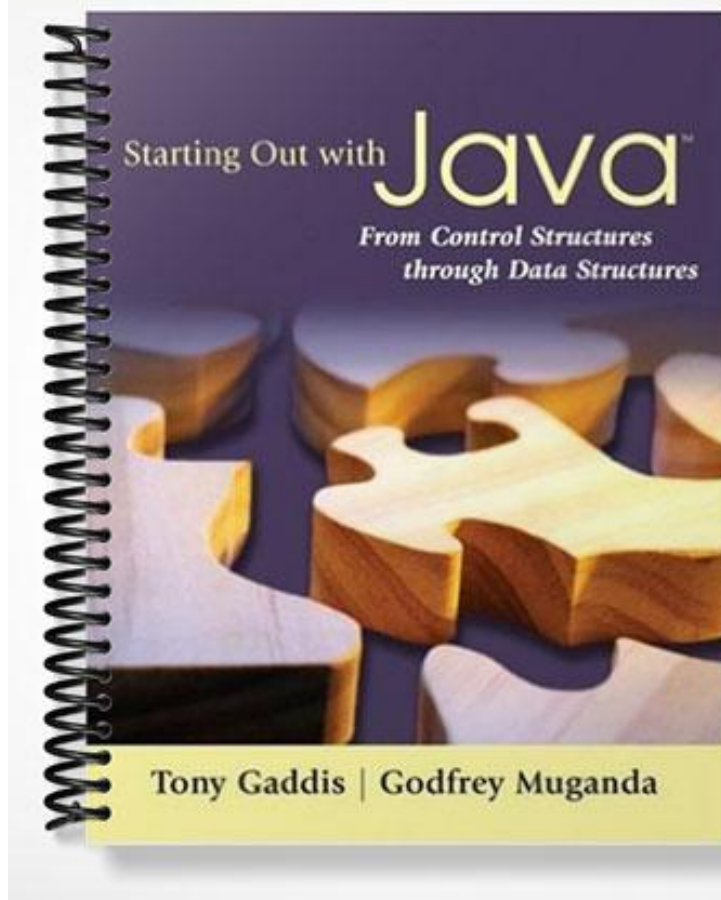


TEST BANK



Starting Out with

Java™

*From Control Structures
through Data Structures*

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1) To compile a program named, First, use the following command

- A) `java-source 1.5 First.java`
- B) `javac-source 1.5 First`
- C) `javac First.java`
- D) `compile First.javac`

Answer: C

2) A Java program must have at least one

- A) Class definition
- B) Variable
- C) Comment
- D) `System.out.println()`; statement

Answer: A

3) All Java lines of code end with semicolons.

Answer: True False

4) The _____ is normally considered the standard output and standard input devices, and usually refer to the monitor and keyboard.

- A) CRT
- B) CPU
- C) secondary storage devices
- D) console

Answer: D

5) 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 Dwarf");  
System.out.println("Adelle, the Albino");
```

- A) The top three winners are
Jody, the Giant
Buffy, the Dwarf
Adelle, the Albino
- B) The top three winners are
Jody, the Giant\nBuffy, the DwarfAdelle, the Albino
- C) The top three winners are Jody, the Giant\nBuffy, the DwarfAdelle, and the Albino
- D) The top three winners are
Jody, the Giant
Buffy, the DwarfAdelle, the Albino

Answer: D

6) A(n) _____ is a value that is written into the code of a program.

- A) literal
- B) assignment statement
- C) variable
- D) operator

Answer: A

7) 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.

Answer: D

8) 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.

Answer: B

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

Answer: True False

10) Which of the following is not a primitive data type?

- A) short
- B) long
- C) float
- D) String

Answer: D

11) 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)

```
double v;  
v = 1.0f;
```

Answer: C

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

```
pay = 2,583.44;
```

Answer: True False

13) The boolean data type may contain values in the following range of values

- A) True/False
- B) -128 to +127
- C) -2,147,483,648 to +2,147,483,647
- D) -32,768 to +32,767

Answer: A

14) 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

Answer: C

15) What is the result of the following statement?

$10 + 5 * 3 - 20$

- A) -5
- B) 5
- C) 25
- D) -50

Answer: B

16) What is the result of the following statement?

$25/4 + 4 * 10 \% 3$

- A) 19
- B) 5.25
- C) 3
- D) 7

Answer: D

17) Which of the following will correctly convert the data type, if x is an integer and y is a double?

- A) `x = <int>y;`
- B) `x = int y;`
- C) `x = (int)y;`
- D) `x = y;`

Answer: C

18) What will be displayed as a result of executing the following code?

```
int x = 5, y = 20;
x *= y;
y% =x;
System.out.println("x = " + x + ", y = " + y);
```

- A) x = 5, y = 20
- B) x = 25, y = 4
- C) x = 100, y = 0
- D) x = 100, y = 20

Answer: D

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

Answer: True False

20) What will be 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

Answer: D

21) In the following Java statement what is the value of 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

Answer: B

22) 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 25 characters.

Answer: D

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

Answer: True False

24) 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);
        int value3 = 16;
    }
}
```

- A) 9
45
16
- B) 94516
- C) 9 45 16
- D) Nothing, this is an error

Answer: D

25) Which of the following is not a valid comment statement?

- A) // comment 1
- B) /* comment 2 */
- C) */ comment 3 /*
- D) /** comment 4

Answer: C

26) When saving a Java source file, save it with an extension of

- A) .javac
- B) .class
- C) .src
- D) .java

Answer: D

27) In Java the variable named One is the same as the variable named ONE.

Answer: True False

28) Every Java application program must have

- A) a class named MAIN
- B) a method named main
- C) comments
- D) integer variables

Answer: 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");

Answer: C

30) To display the output on the next line, you can use the println method or use the escape sequence, _____, in the print method.

- A) \n
- B) \r
- C) \t
- D) \b

Answer: A

31) A(n) _____ is a named storage location in the computer's memory.

- A) literal
- B) constant
- C) variable
- D) operator

Answer: C

32) What would be displayed as a result of the following code, assuming x has been declared an integer?

```
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.

Answer: D

33) Identifiers and class names are examples of variables.

Answer: True False

34) Variables are classified according to their _____.

- A) value
- B) data type
- C) names
- D) location in the program

Answer: B

35) The primitive data types only allow a(n) _____ to hold a single value.

- A) variable
- B) object
- C) class
- D) literal

Answer: A

36) If x has been declared an integer, int x;, which of the following is invalid?

- A) x = 0;
- B) x = -58932;
- C) x = 1,000;
- D) x = 592;

Answer: C

37) Given double r;, which of the following is invalid?

- A) r = 326.75;
- B) r = 9.4632e15;
- C) r = 9.4632E15;
- D) r = 2.9X106;

Answer: D

38) 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

Answer: B

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

Answer: True False

40) What is the result of the following statement?

$25 - 7 * 3 + 12/3$

- A) 6
- B) 8
- C) 10
- D) 12

Answer: B

41) What is the result of the following statement?

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

- A) 7
- B) 8
- C) 12
- D) 105

Answer: A

42) To convert from one data type to another you must use casting

- A) when you are converting from a lower-ranked value to a higher-ranked value
- B) when you are converting from a higher-ranked value to a lower-ranked value
- C) always
- D) never

Answer: B

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

```
int x = 15, y = 20, z = 32;
x *= y;
y -= z;
z% = 16;
System.out.println("x = " + x + ", y = " + y, " z = " +z);
```

- A) x = 15, y = 20, z = 32
- B) x = 35, y = 52, z = 48
- C) x = 300, y = -12, z = 2
- D) x = 300, y = -12, z = 0

Answer: D

44) A(n) _____ is a variable whose content is read only and cannot be changed during the program's execution of the program.

- A) operator
- B) literal
- C) named constant
- D) reserved word

Answer: C

45) 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.

Answer: D

46) 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";`

Answer: D

47) 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 = y
msg has 19 characters.
- D) I am enjoying java.
I AM ENJOYING JAVA.
i am enjoying java.
Character at index x = o
msg has 19 characters.

Answer: D

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

Answer: True False

49) Which of the following is not 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 /**

Answer: C

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

Answer: True False

