Chapter 2 Introduction to Java Applications

Section 2.2 Your First Program in Java: Printing a Line of Text

2.2 Q1: End-of-line comments that should be ignored by the compiler are denoted using

- a. Two forward slashes (//).
- b. Three forward slashes (///).
- c. A slash and a star (/*).
- d. A slash and two stars (/**).

```
ANS: a. Two forward slashes ( // ).
```

2.2 Q2: Which of the following is not a valid Java identifier?

- a. my Value
- b. \$ AAA1
- c. width
- d. m x

ANS: a. my Value (Identifiers may not contain blanks).

2.2 Q3: Which of the following cannot cause a syntax error to be reported by the Java compiler?

- a. Mismatched {}
- b. Missing */ in a comment that begins with /*
- c. Missing;
- d. An extra blank line.

ANS: d. An extra blank line.

2.2 Q4: Which of the following does not contain a syntax error?

- a. System.out.println('Hello world!'):
- c. System.out.println("Hello world!");
- d. System.out.println(Hello world!);

```
ANS: c. System.out.println( "Hello world!" );
```

Compiling and Executing Your First Java Application

2.2 Q5: Which command compiles the Java source code file Welcome.java?

- a. cd Welcome.java
- b. javac Welcome.java
- c. java Welcome.java
- d. compile Welcome.java

```
ANS: b. javac Welcome.java
```

2.2 Q6: Which command executes the Java class file Welcome.class?

- a. java welcome
- b. java Welcome.class
- c. java Welcome
- d. run Welcome.class

ANS: c. java Welcome (Note that you must use the same capitalization as the class name.)

Section 2.3 Modifying Your First Java Program

Displaying a Single Line of Text with Multiple Statements

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2.3 Q1: Which is the output of the following statements?
<pre>System.out.print("Hello ");</pre>
<pre>System.out.println("World");</pre>
a. Hello World
b. HelloWorld
c. Hello
World
d. World
Hello
ANS: a. Hello World

Displaying Multiple Lines of Text with a Single Statement

2.3 Q2: Which of the following is the escape character?

a. * b. ∖ c. ∖n d. " ANS: b. \

2.3 Q3: Which of the following statements will print a single line containing "hello there"?

```
a. System.out.println( "hello" );
System.out.println( " there" );
b. System.out.println( "hello" , " there" );
c. System.out.println( "hello" );
System.out.print( " there" );
d. System.out.print( "hello" );
        System.out.println( " there" );
ANS: d. System.out.print( "hello" );
    System.out.println( " there" );
```

2.3 Q4: Which of the following escape sequences represents a carriage return?

a. ∖n. b. \r. c. \cr. d. ∖c.

ANS: b. \r.

2.3 Q5: Which of the following statements would display the phase Java is fun?

a. System.out.println("hellois fun\rJava "); b. System.out.println('Java is fun'); c. System.out.println("\"Java is fun\""); d. System.out.println(Java is fun);

ANS: a. System.out.println("hellois fun\rJava ");

Section 2.4 Displaying Text with printf

2.4 Q1: When method printf requires multiple arguments, the arguments are separated with

```
a. colons (:).
```

```
b. semicolons (;).
```

```
c. commas (,).
```

```
d. periods (.).
```

```
ANS: c. commas (,).
```

2.4 Q2: Which of the following statement displays Hello World?

```
a. System.out.printf( "%2s", "Hello " "World" );
b. System.out.printf( "%s %s", "Hello", "World" );
c. System.out.printf( "%s%s", "Hello, World" );
d. System.out.printf( "s% s%", "Hello", "World" );
ANS: b. System.out.printf( "%s %s", "Hello", "World" );
```

Section 2.5 Another Application: Adding Integers

2.5 Q1: Programs remember numbers and other data in the computer's memory and access that data through program elements called

- a. comments.
- b. messages.
- c. integers.
- d. variables.

ANS: d. variables.

Section 2.5.1 import Declarations

- 2.5.1 Q1: All import declarations must be placed
- a. inside the class declaration's body.
- b. before the class declaration.
- c. after the class declaration.
- d. all of the above will work.

ANS: b. before the class declaration.

2.5.1 Q2: Java's predefined classes are grouped into

- a. packets.
- b. declarations.
- c. Galleries.
- d. packages.
- ANS: d. packages.

Section 2.5.2 Declaring Class Addition

2.5.2 Q1: The filename for the public class that begins with public class Addition must be

- a. public.java.
- b. public.class.java.
- c. Addition.java.
- d. addition.java.
- ANS: c. Addition.java.

2.5.2 Q2 The body of each class declaration begins with _____ and ends with _____.

- e. (,).
- f. [,].
- g. {, }.

h. /, \.

ANS: g. {, }.

Section 2.5.3 Declaring and Creating a Scanner to Obtain User Input from the Keyboard

2.5.3 Q1: Which of the following is a variable declaration statement?

- a. int total;
- b. import java.util.Scanner;
- c. public static void main(String args[])
- d. // first string entered by user

ANS: a. int total;

2.5.3 Q2: A(n) _____ enables a program to read data from the user.

- a. printf.
- b. import declaration.
- c. Scanner.
- d. main.

ANS: c. Scanner.

Section 2.5.4 Declaring Variables to Store Integers

2.5.4 Q1: Which of the following is not a Java primitive type?

- a. char
- b. byte
- c. real
- d. double
- ANS: c. real

2.5.4 Q2: Which of the following statements is false?

- a. Primitive types are keywords.
- b. Primitive types must appear in all lowercase letters.
- c. Real numbers contain decimal points.
- d. Variable name identifiers must begin with a lowercase letter.

ANS: d. Variable name identifiers must begin with a lowercase letter. This is not required, but it is a convention.

Section 2.5.5 Prompting the User for Input

2.5.5 Q1: Which of the following statements is true?

- a. System.out.print("Enter your age: "); prompts the user to take action.
- b. Class names typically begin with a capital letter.
- c. Package java.lang is imported in every Java program.
- d. All of the above are true.

ANS: d. All of the above are true.

Section 2.5.6 Obtaining an int as Input from the User

2.5.6 Q1: Which of the following is a Scanner method for inputting an integer value?

- a. nextInteger
- b. integer
- c. nextInt
- d. int

ANS: c. nextInt.

2.5.6 Q2: Given the Java statement

number1 = input.nextInt();

in which number1 is an int and input is a Scanner, which of the following occurs if the user does not enter a valid int value?

- a. A compilation error occurs.
- b. The program continues executing and assigns the value 0 to number1.
- c. A runtime logic error occurs.
- d. None of the above.

ANS: c. A runtime logic error occurs.

Section 2.5.7 Prompting for and Inputting a Second int

(no questions; uses the same concepts as Sections 2.5.5 and 2.5.6)

Section 2.5.8 Using Variables in a Calculation

2.5.8 Q1: Portions of statements that contain calculations are called

- a. variables.
- b. constants.
- c. expressions.
- d. None of the above.

ANS: c. expressions.

2.5.8 Q2: Given the Java statement

sum = number1 + number2;

which of the following statements is *false*?

- a. It's an assignment statement.
- b. It calculates the sum of variables number1 and number2.
- c. The operands of the addition operator are number1 and number2.
- d. It assigns the value of number1 to sum.

ANS: d. It assigns the value of number1 to sum. Actually, it assigns the total of number1 and number2 to sum.

Section 2.5.9 Displaying the Result of the Calculation

2.5.9 Q1: The format specifier ______ is a placeholder for an int value.

- a. %n
- b. %d
- c. %int

d. %s ANS: b. %d

ANS: D. //

2.5.9 Q2: Optional parentheses in expressions are said to be

- a. redundant.
- b. binary operators.
- c. implied.
- d. declared.

ANS: a. redundant.

Section 2.5.10 Java API Documentation

(none)

Section 2.6 Memory Concepts

2.6 Q1: Which of the following statements does not alter the value stored in a memory location?
a. int a;
b. number = 12;
c. y = y + 2;
d. width = Integer.parseInt(input);
ANS: a. int a;

Section 2.7 Arithmetic

2.7 Q1: What is the value of result after the following Java statements execute (assume all variables are of type int)?

```
a = 4;
b = 12;
c = 37;
d = 51;
result = d % a * c + a % b + a;
a. 119
b. 51
c. 127
d. 59
ANS: a. 119
2.7 Q2: Which of the following is not an arithmetic operator?
```

a. + b. c. . d. % ANS: c. .

Section 2.8 Decision Making: Equality and Relational Operators

2.8 Q1: What will be output after the following Java statements have been executed (assume all variables are of type int)?

```
a = 4;
b = 12;
c = 37;
d = 51;
if ( a < b )
    System.out.println( "a < b" );
if ( a > b )
    System.out.println( "a > b" );
```

```
if ( d <= c )
          System.out.println( "d <= c" );</pre>
       if ( c != d )
          System.out.println( "c != d" );
a. a < b
   c != d
b. a < b
   d <= c
   c != d
c. a > b
   c != d
d. a < b
   c < d
   a != b
ANS: a. a < b
       c != d
```

2.8 Q2: Which of the following is not a compilation error?

- a. Neglecting to initialize a local variable in a method before it is used.
- b. Placing a semicolon at the end of the first line of an if statement.
- c. Omitting the left and right parenthesis for the condition of an if statement.
- d. All are compilation errors.

ANS: b. Placing a semicolon at the end of the first line of an if statement.

2.8 Q3: Each of the following is a relational or equality operator except:

- a. <=
- b. =! c. ==
- d. >

ANS: b. =!

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