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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!'):
```
b.
```
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?

```
System.out.print("Hello ");
System.out.println("World");
```

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`?

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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 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`.

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Section 2.5.3 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 2.5.4 Declaring a Variable to Store an Integer and Obtaining an Integer from the Keyboard

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 Obtaining a Second Intege

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

```
int number1 = input.nextInt();
```

in which `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 2.5.6 Using Variables in a Calculation

2.5.8 Q1: Portions of statements that contain calculations are called
a. variables.
b. constants.

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c. expressions.
d. None of the above.
ANS: c. expressions.

2.5.8 Q2: Given the Java statement

```
int 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 2.5.7 Displaying the Calculation Result

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`

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 2.5.8 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`)?

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```
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");
}

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`

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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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