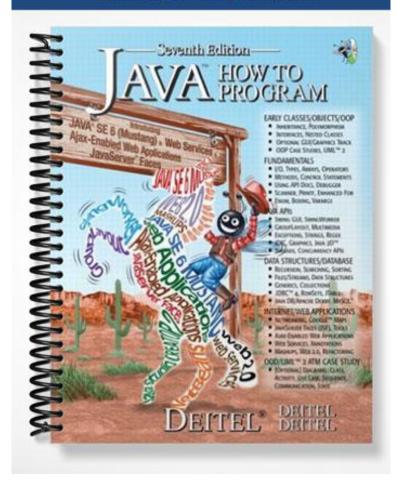
TEST BANK



Chapter 2 Introduction to Java Applications

Section 2.1 Introduction

```
(none)
```

Section 2.2 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 starts (/**).
- e. **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. Extra blank lines.

ANS: d. Extra blank lines.

2.2 Q4: Which of the following is not 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.javab. javac Welcome.java
- c. java Welcome.java
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```
d. compile Welcome.java
ANS: b. javac Welcome.java
2.2 Q6: Which command executes the Java class file Welcome.class?
a. javac Welcome.class
b. java Welcome.class
c. java Welcome
d. run Welcome.class
ANS: c. java Welcome
Section 2.3 Modifying Our First Java Program
Displaying a Single Line of Text with Multiple Statements
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 characters 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 carriage return?
e. \n.
f. \r.
```

g. \cr.

```
h. \c.
ANS: b. \r.

2.3 Q4: 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 ______.
```

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 Java Application: Adding Integers

- $2.5~Q1:~All~{ inport}~declarations~must~be~placed$
- a. inside the class declaration's body.
- b. before the class declaration.
- c. after the class declaration.

a. colons (:).
b. semicolons (;).
c. commas (,).
d. periods (.).
ANS: c. commas (,).

d. all of the above will work.

ANS: b. before the class declaration.

2.5 Q2: 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 Q3: A(n) _____ enables a program to read data from the user.

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```
a. printf.
b. import declaration.
c. Scanner.
d. main.
ANS: c. Scanner.
2.5 Q4: Which of the following is not a Java primitive type?
a. char b. byte
c. real
d. double
ANS: c. real
2.5 Q5: The format specifier ______ is a place-holder for an int value?
a. %a.
b. %d.
c. %int.
d. %s.
ANS: b. %d.
Java API Documentation
(none)
```

Section 2.6 Memory Concepts

2.6 Q1: Which of the following statements does not alter 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?

```
int a, b, c, d, result;
    a = 4;
    b = 12;
    c = 37;
    d = 51;
    result = d % a * c + a % b + a;
a. 119
b. 51
c. 127
```

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```
d. 59 ANS: a. 119
```

2.7 Q2: List the following operators in the order that they will be evaluated: -, *, /, +,
%. Assume that if two operations have the same precedence, the one listed first will be evaluated first.

```
a. +, -, /, *, %.
b. -, +, %, *, /.
c. -, *, %, +, /.
d. *, /, %, -, +.
ANS: d. *, /, %, -, +.
```

2.7 Q3: 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?

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

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- 2.8 Q2: Which of the following is not a syntax error?
- a. Neglecting to initialize a local variable in a method before it is used.
- b. Using a single equals sign instead of a double equals sign in the condition of an if statement.
- c. Placing a semicolon at the end of the first line of an if statement.
- d. Omitting the left and right parenthesis for the condition of an if statement.

ANS: c. 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. =!

Section 2.9 (Optional) Software Engineering Case Study: Examining the Requirements Document

Requirements Document

(none)

Analyzing the ATM System

- 2.9 Q1: Which of the following is the first stage of the software life cycle?
- a. design.
- b. implementation.
- c. requirements gathering.
- d. analysis.

ANS: c. requirements gathering.

Use Case Diagrams

- 2.9 Q2: The use case diagram models .
- a. the interactions between a system's client and its use case.
- b. each software life cycle stage in succession.
- c. each software life cycle by repeating one or more stages several times via use cases.
- d. the interactions between implementations and testing.

ANS: a. the interactions between a system's client and its use case.

- 2.9 Q3: Which of the following is not an actor of the ATM system?
- a. A user who views an account balance.
- b. A user who provides requirements for building the ATM system.
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- c. A user who withdraws cash from the ATM.
- d. A user who deposits funds into the ATM.

ANS: b. A user who provides requirements for building the ATM system.

Designing the ATM System

- 2.9 Q4: Which diagram models system structure?
- a. State machine diagram.
- b. Class diagram.
- c. Activity diagram.
- d. Sequence diagram.

ANS: b. Class diagram.

- 2.9 Q4: Which diagram is also called a collaboration diagram.
- a. State machine diagram.
- b. Communication diagram.
- c. Activity diagram.
- d. Sequence diagram.

ANS: b. Communication diagram.