

# JD521\_FA1

**Due** Feb 15 at 11:59pm**Points** 61**Questions** 30**Available** Feb 10 at 8am - Feb 15 at 11:59pm 6 days**Time Limit** 90 Minutes**Allowed Attempts** 5[Take the Quiz Again](#)

## Attempt History

|        | Attempt                   | Time       | Score        |
|--------|---------------------------|------------|--------------|
| LATEST | <a href="#">Attempt 1</a> | 55 minutes | 43 out of 61 |

Score for this attempt: **43** out of 61

Submitted Feb 10 at 11:16pm

This attempt took 55 minutes.

### Question 1

2 / 2 pts

Which two import statements will allow for the import of the HashMap class?

Correct!

☒ import Java.util.\*;☐ import java.util.hashMap;

Correct!

☒ import java.util.HashMap;☐ import java.util.HashMap.\*;

### Question 2

2 / 2 pts

Which statement would designate that your file belongs in the package com.ocajexam.utilities?

**Correct!**

- ☐ package com.ocajexam.utilities.\*;
- ☐ pack com.ocajexam.utilities;
- ☒ package com.ocajexam.utilities;
- ☐ package Com.ocajexam.utilities.\*

**Question 3****0 / 2 pts**

Which of the following is the only Java package that is imported by default?

- ☐ java.io
- ☐ java.util
- ☐ java.awt
- ☒ java.lang

**Correct Answer****You Answered****Question 4****2 / 2 pts**

The JCheckBox and JComboBox classes belong to which package?

- ☒ javax.swing
- ☐ java.swing
- ☐ javax.awt
- ☐ java.awt

**Correct!**

**Question 5****2 / 2 pts**

Which package contains the Java Collections Framework?

- ☐ java.io
- ☐ java.utils
- ☐ java.net
- ☒ java.util

**Correct!****Question 6****2 / 2 pts**

The Java Basic I/O API contains what types of classes and interfaces?

- ☐ Collection API and data streams
- ☐ Internationalization
- ☐ RMI, JDBC, and JNDI
- ☒ Data streams, serialization, and file system

**Correct!****Question 7****2 / 2 pts**

Which API provides a lightweight solution for GUI components?

- ☐ AWT and Swing
- ☒ Swing

**Correct!**

☐ Abstract Window Toolkit

☐ AWT

### Question 8

2 / 2 pts

When apply naming conventions, which Java elements should start with a capital letter and continue on using the camel case convention?

☐ Package names

☐ Constant names

☒ Class names

☒ Interface names

☐ Object

Correct!

Correct!

### Question 9

2 / 2 pts

When organizing the elements in a class, which order is preferred?

☐ Methods, constructors, data members

☐ Data members, methods, constructors

☒ Data members, constructors, methods

☐ Constructors, data members, methods

☐ Constructors, methods, data members

Correct!

**Question 10****2 / 2 pts**

Which usage represents a valid way of compiling a Java class?

☐ javac MainClass.source☐ java MainClass.class☒ javac MainClass.java☐ javac MainClass**Correct!****Question 11****0 / 2 pts**

Which two command-line invocations of the Java interpreter return the version of the interpreter?

☒ java --version☐ java -version ProgramName☐ java ProgramName -version☒ java -version**You Answered****Correct Answer****Correct!****Question 12****2 / 2 pts**

Which two command-line usages appropriately identify the classpath?

☒ javac -cp /project/classes/ MainClass.java**Correct!**

**Correct!**

- ☒ javac -classpath /project/classes/ MainClass.java
- ☐ javac -sp /project/classes/ MainClass.java
- ☐ javac -classpaths /project/classes/ MainClass.java

**Question 13****2 / 2 pts**

Which is not a type of statement?

- ☐ Iteration statement
- ☒ Propagation statement
- ☐ Conditional statement
- ☐ Assignment statement

**Correct!****Question 14****2 / 2 pts**

What type of statement is the following equation:  $y = (m \cdot x) + b$ ?

- ☐ Conditional statement
- ☐ Assertion statement
- ☒ Assignment statement
- ☐ Assertion statement

**Correct!****Question 15****0 / 2 pts**

Which statements correctly declare boolean variables?

Correct!

☒ Boolean isValid = true;

☐ boolean isValid = 1;

You Answered

☒ boolean isValid = TRUE;

Correct Answer

☐ boolean isValid = new Boolean (true);

### Question 16

2 / 2 pts

Given x is declared with a valid integer, which conditional statement will not compile?

Correct!

☒ if (x == 0) {} elseif (x == 1) {System.out.println("Valid Statement");}

☐ if (x == 0) ; else if (x == 1){} else {};

☐ if (x == 0) {System.out.println("False Statement");}

☐ if (x == 0) {System.out.println("True Statement");}

### Question 17

0 / 2 pts

A switch statement works with which wrapper class/reference type(s)?

You Answered

☒ Int

☐ none

**Correct Answer**☐ Character**Correct!**☒ Byte**Question 18****0 / 2 pts**

Given

```
public class Dinner {  
    public static void main (String[] args)  
    {  
        boolean isKeeperFish = false;  
        if (isKeeperFish = true) {  
            System.out.println("Fish for dinner");  
        } else {  
            System.out.println("Take out for dinner");  
        }  
    }  
}
```

What will be the result of the application's execution?

**Correct Answer**☐ Fish for dinner will be printed.☐ dinner for fish will be printed.☐ A compilation error will occur.**You Answered**☒ Take out for dinner will be printed.**Question 19****0 / 2 pts**

Which keyword is part of a transfer of control statement?



You Answered

☒ If

Correct Answer

☐ return☐ assert☐ do

## Question 20

2 / 2 pts

Given:

```
public class ArithmeticResultsOutput {  
    public static void main (String[] args) {  
        int i = 0;  
        int j = 0;  
        if (i++ == ++j) {  
            System.out.println("True: i=" + i + ", j=" + j);  
        } else {  
            System.out.println("False: i=" + i + ", j=" + j);  
        }  
    }  
}
```

What will be printed to standard out?

☐ False: i=0, j=1☐ True: i=0, j=1☐ True: i=1, j=1☒ False: i=1, j=1

Correct!

## Question 21

2 / 2 pts

Given the following Java code segment, what will be printed, considering the usage of the modulus operators?

```
System.out.print(49 % 26 % 5 % 1);
```

☐ 23

☐ 3

☐ 1

☒ 0

Correct!

## Question 22

2 / 2 pts

Given

```
public class BooleanResultsOutput {  
    public static void main (String[] args) {  
        boolean booleanValue1 = true;  
        boolean booleanValue2 = false;  
        System.out.print(!(booleanValue1 & !booleanValue2) + ", ");  
        System.out.print(!(booleanValue1 | !booleanValue2)+ ", ");  
        System.out.print(!(booleanValue1 ^ !booleanValue2));  
    }  
}
```

What will be printed, considering the usage of the logical Boolean operators?

☐ true, false, true

☒ false, false, true

☐ false, true, true

☐ true, true, true

Correct!

**Question 23****2 / 2 pts**

Given:

```
public class ArithmeticResultsOutput {
    public static void main (String[] args) {
        int i1 = 100; int j1 = 200;
        if ((i1 == 99) & (--j1 == 199)) {
            System.out.print("Value1: " + (i1 + j1) + " ");
        } else {
            System.out.print("Value2: " + (i1 + j1) + " ");
        }
        int i2 = 100; int j2 = 200;
        if ((i2 == 99) && (--j2 == 199)) {
            System.out.print("Value1: " + (i2 + j2) + " ");
        } else {
            System.out.print("Value2: " + (i2 + j2) + " ");
        }
        int i3 = 100; int j3 = 200;
        if ((i3 == 100) | (--j3 == 200)) {
            System.out.print("Value1: " + (i3 + j3) + " ");
        } else {
            System.out.print("Value2: " + (i3 + j3) + " ");
        }
        int i4 = 100; int j4 = 200;
        if ((i4 == 100) || (--j4 == 200)) {
            System.out.print("Value1: " + (i4 + j4) + " ");
        } else {
            System.out.print("Value2: " + (i4 + j4) + " ");
        }
    }
}
```

What will be printed to standard out?

**Correct!**

- ☒ Value2: 299 Value2: 300 Value1: 299 Value1: 300
- ☐ Value1: 300 Value1: 299 Value2: 300 Value2: 299
- ☐ Value2: 300 Value2: 300 Value1: 300 Value1: 300

☐ Value1: 299 Value1: 300 Value2: 299 Value2: 300

## Question 24

2 / 2 pts

Given the following code segment:

```
public void validatePrime() {
    long p = 17496; // 'prime number' candidate
    Double primeSquareRoot = Math.sqrt(p);
    boolean isPrime = true;
    for (long j = 2; j <= primeSquareRoot.longValue(); j++) {
        if (p % j == 0) {
            // Print divisors
            System.out.println(j + "x" + p / j);
            isPrime = false;
        }
    }
    System.out.println("Prime number: " + isPrime);
}
```

Which of the following is true? Hint: 17496 is not a prime number.

☐

The code will not compile since the expression `(p % j == 0)` should be written as `((p % j) == 0)`.

☐

The code will not compile due to a syntactical error somewhere in the code.

☐

Divisors will be printed to standard out (for example, 2x8478, and so on), along with "Prime number: 0" as the final output.

**Correct!**

☒

Divisors will be printed to standard out (for example, 2x8478, and so on), along with Prime number: false as the final output.

**Question 25****0 / 2 pts**

Given:

```
public class EqualityTests {  
    public static void main (String[] args) {  
        Integer value1 = new Integer("312");  
        Integer value2 = new Integer("312");  
        Object object1 = new Object();  
        Object object2 = new Object();  
        Object object3 = value1;  
    }  
}
```

Which expressions evaluate to true?

You Answered

☒ object1.equals(object2)☐ value1.equals(object1)

Correct!

☒ value1.equals(object3)

Correct Answer

☐ value1.equals(value2)**Question 26****2 / 2 pts**

Given

```
System.out.print(3 + 3 + "3");  
System.out.print(" and ");  
System.out.println("3" + 3 + 3);
```

What will be printed to standard out?

☐ 333 and 63☐ 63 and 63

**Correct!**☐ 333 and 333☒ 63 and 333**Question 27****0 / 2 pts**

Which statement is false about the toString method?

**Correct Answer**☐

The toString method must return the object's state information in the form of a string.

☐

The toString method is commonly overridden.

☐

The toString method is a method of the Object class.

**You Answered**☒

The toString method returns a string representation of the object.

**Question 28****2 / 2 pts**

Given

```
String tenCharString = "AAAAAAAAAA";  
System.out.println(tenCharString.replace("AAA", "LLL"));
```

What is printed to the standard out?

☐

LLLAAAAAAAA

☐

LLLLLLLLLL

**Correct!**☒

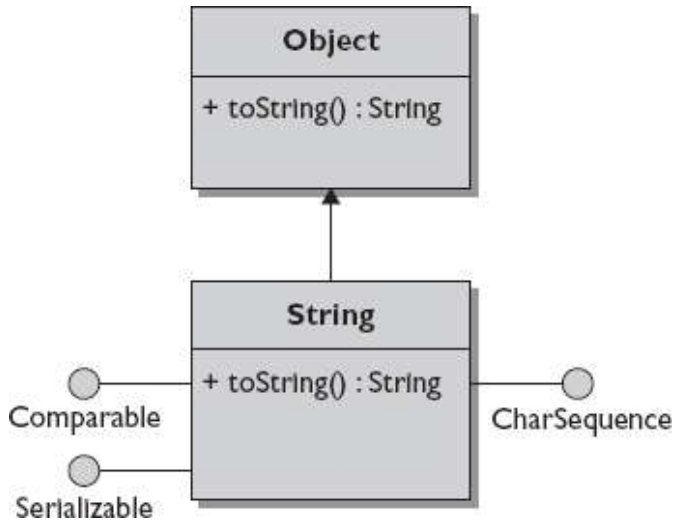
LLLLLLLLLLA

☐ AAAAAAAAAA

### Question 29

1 / 3 pts

Consider the following illustration. Which statements, also represented in the illustration, are true?



Correct Answer

☐ The toString method is publicly accessible.

Correct!



The String class implements the Comparable, Serializable, and CharSequence interfaces.

You Answered

☒ The String class implements the Object interface.

Correct!



The toString method overrides the toString method of the Object class, allowing the String object to return its own string.

### Question 30

2 / 2 pts

Given:

```
String name1 = new String ("Benjamin");  
StringBuilder name2 = new StringBuilder ("Benjamin");  
System.out.println(name2.equals(name1));
```

Are the String and StringBuilder classes of comparable types? Select the correct statement.

☐ The String and StringBuilder classes are comparable types.

☒ The String and StringBuilder classes are incomparable types.

**Correct!**

Quiz Score: **43** out of 61