

# OOPJ: CCEE Practice Quiz 1

Total points 20/30 ?

Duration: 30 Mins

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0 of 0 points

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Questions

20 of 30 points

✓ **What will the output of the code be?** \*

1/1

```
public class PrintTest {  
  
    public static void main(String[] args) {  
  
        System.out.print("Hello ");  
  
        System.out.println("World!");  
  
        System.out.printf("Number: %d", 10);  
  
    }  
  
}
```

- ☐ Hello World!Number: 10
- ☐ Hello World! Number: 10
- ☒ Hello World! \n Number: 10
- ☐ HelloWorld!Number: 10



✓ **What is the significance of using String... args instead of String[] args in the main method?** \*1/1

- ☐ It is an invalid syntax.
- ☐ It allows passing multiple string arguments in the command line.
- ☒ It does not affect functionality; both are equivalent.
- ☐ It prevents passing arguments to the program.



✗ What will happen when the code at Line 1 is executed? \*

0/1

```
public class Test {  
  
    public static void main(String[] args) {  
  
        String str = "abc";  
  
        int num = Integer.parseInt(str); // Line 1  
  
        System.out.println(num);  
  
    }  
  
}
```

- ☒ It will compile and print abc. ✗
- ☐ It will compile and print 0.
- ☐ It will throw a NumberFormatException.
- ☐ It will throw a NullPointerException.

Correct answer

- ☒ It will throw a NumberFormatException.

✗ What will happen when the code at Line 1 is executed? \*

0/1

```
public class Test {  
  
    public static void main(String[] args) {  
  
        String[] arr = new String[3];  
  
        arr[0] = "Java";  
  
        System.out.println(arr[1].toUpperCase()); // Line 1  
  
    }  
  
}
```

- ☐ It will compile and print null.
- ☐ It will compile and print JAVA.
- ☒ It will throw an ArrayIndexOutOfBoundsException. ✗
- ☐ It will throw a NullPointerException.

Correct answer

- ☒ It will throw a NullPointerException.

✓ Which of the following is a correct example of Widening Conversion in Java? \*1/1

- ☐ int i = 10; byte b = i;
- ☐ double d = 10.5; int i = d;
- ☒ float f = 10; double d = f; ✓
- ☐ long l = 100; int i = l;

✓ **Which of the following requires an explicit cast for Narrowing Conversion in Java?**

\*1/1

- ☒ double d = 100.25; int i = (int) d;
- ☐ int i = 50; long l = i;
- ☐ byte b = 100; int i = b;
- ☐ float f = 10.5F; double d = f;



✗ **Which of the following statements is true about the memory storage of a and b in the given code?**

\*0/1

```
public class Test {  
  
    public static void main(String[] args) {  
  
        int a = 10; // Line 1  
  
        String b = "Hello"; // Line 2  
  
    }  
  
}
```

- ☒ Both a and b are stored in the heap memory.
- ☐ a is stored in the stack memory, while b is stored in the heap memory.
- ☐ Both a and b are stored in the stack memory.
- ☐ a is stored in the heap memory, while b is stored in the stack memory.



Correct answer

- ☒ a is stored in the stack memory, while b is stored in the heap memory.

✓ **What are the default values of primitive and non-primitive data types in Java?** \*1/1

- ☐ Primitive types have default values of null, and non-primitive types have default values of 0.
- ☒ Primitive types have default values based on their type (e.g., 0 for int, false for boolean), and non-primitive types have null as their default value. ✓
- ☐ Both primitive and non-primitive types have null as their default value.
- ☐ Both primitive and non-primitive types have 0 as their default value.

✓ **What will be the output of this code?** \* 1/1

```
public class Test {  
  
    public static void main(String[] args) {  
  
        double d = 9.78;  
  
        int i = (int) d; // Line 1  
  
        System.out.println(i);  
  
    }  
  
}
```

- ☒ 9 ✓
- ☐ 9.78
- ☐ 10
- ☐ Error

✓ **Given the following Java class:**

\*1/1

```
public class Customer {  
  
    String customerName;  
  
    double accountBalance;  
  
  
    void deposit(double amount) {  
  
        if (amount > 0) {  
  
            accountBalance += amount;  
  
        }  
  
    }  
  
  
    static void setDefaultBalance(double defaultBalance) {  
  
        // This method should set a default balance for all customers  
  
    }  
  
}
```

**Which of the following statements is correct about customerName, accountBalance, and setDefaultBalance?**

- ☐ customerName and accountBalance are static variables; setDefaultBalance is a non-static method.
- ☒ customerName and accountBalance are instance variables; setDefaultBalance is a static method. ✓
- ☐ customerName is a static variable, accountBalance is a non-static variable, and setDefaultBalance is an instance method.
- ☐ Both customerName and accountBalance are static variables; setDefaultBalance is an instance method.

✓ **Given the following code snippet:** \*

1/1

```
public class Test {  
  
    public static void main(String[] args) {  
  
        System.out.print("Hello, ");  
  
        System.out.print("World!");  
  
    }  
  
}
```

**What is the role of out in this context?**

- ☒ out is an instance of the PrintStream class used for printing output to the console. ✓
- ☐ out is a method that formats the output before printing it to the console.
- ☐ out is a variable that stores the current state of the system.
- ☐ out is a class that handles file operations in Java.

✓ **1. The JVM divides memory into different regions such as the Heap, Stack, and Method Area.** \*1/1

**2. The Garbage Collector (GC) primarily manages the Stack memory.**

**3. The Method Area stores class metadata and static variables.**

**Which of the following statements is correct?**

- ☒ Only statements 1 and 3 are correct; the Garbage Collector manages the Heap memory, not the Stack. ✓
- ☐ All statements are correct.
- ☐ Only statement 1 is correct; the Garbage Collector does not manage the Method Area.
- ☐ Only statement 3 is correct; the Stack and Heap memory are not managed by the Garbage Collector.



✓ **Which of the following accurately describes the role of the JVM Execution Engine?** \*1/1

- ☐ It compiles Java bytecode into native machine code for execution on the host system.
- ☐ It translates Java source code into bytecode, which is then executed by the Java Compiler.
- ☒ It interprets or compiles Java bytecode into native machine code for execution, and manages runtime optimizations such as Just-In-Time (JIT) compilation. ✓
- ☐ It handles network communication and database interactions during Java application execution.

✗ **Which of the following statements about Java data types is correct? \*** 0/1

- ☐ The float data type has a higher precision than the double data type.
- ☐ char can hold any Unicode character and is stored as a 16-bit integer.
- ☐ The boolean data type can store multiple values like true, false, and null.
- ☒ The long data type is used to store decimal numbers with higher precision than float. ✗

Correct answer

- ☒ char can hold any Unicode character and is stored as a 16-bit integer.

✓ Which of the following option leads to the portability and security of Java? \*1/1

- ☒ Bytecode is executed by JVM
- ☐ The applet makes the Java code secure and portable
- ☐ Use of exception handling
- ☐ Dynamic binding between objects



✓ Which component of Java is responsible for running the compiled Java bytecode? \*1/1

- ☐ JDK
- ☒ JVM
- ☐ JRE
- ☐ JIT



✗ What is the default value of a boolean variable in Java? \* 0/1

- ☐ false
- ☐ true
- ☐ 0
- ☒ 1
- ☐ None of the above



Correct answer

- ☒ false

✓ What is the range of the short data type in Java? \*

1/1

- ☒ -32768 to 32767
- ☐ -128 to 127
- ☐ -2147483648 to 2147483647
- ☐ 0 to 65535



✓ What is the output of this pseudocode? \*

1/1

SET x = 10

IF x > 5

THEN PRINT "Greater"

ELSE PRINT "Lesser"

- ☒ Greater
- ☐ Lesser
- ☐ Error
- ☐ No output



✓ Identify the error in this code. \*

1/1

```
int[] nums = new int[2];
```

```
nums[0] = 1;
```

```
nums[1] = 2;
```

```
nums[2] = 3;
```

- ☒ Array index out of bounds
- ☐ Incorrect array declaration
- ☐ No error
- ☐ Compile time error



✗ Spot the mistake in this code snippet. \* 0/1

```
int i = 0; while(i < 5) { i++; } System.out.println(i);
```

- ☒ Infinite loop
- ☐ Syntax error
- ☐ No error
- ☐ Prints 0

✗

Correct answer

- ☒ No error

✓ In a 'switch-case' statement, what is the role of the 'break' keyword? \* 1/1

- ☐ To pause the execution
- ☒ To terminate the case block
- ☐ To skip to the next case
- ☐ To repeat the case block

✓

✗ What is the default value of a local variable in Java? \* 0/1

- ☒ 0
- ☐ null
- ☐ Undefined
- ☐ Compiler error

✗

Correct answer

- ☒ Compiler error

✗ Which of the following can be a valid value for a char data type? \*

0/1

- ☐ a) "A"
- ☒ b) 'A'
- ☐ c) 65
- ☐ d) Both b and c

✗

Correct answer

- ☒ d) Both b and c

✓ Char data type cannot store the following value: \*

1/1

- ☐ 'A'
- ☒ 65
- ☐ '\u0041'
- ☐ All of the above values can be stored in char data type

✓

✓ What is the output of the following program? \*

1/1

```
class Main {  
    public static void main(String[] args) {  
        int x = 7;  
        int y = 3;  
        System.out.println(x > y ? "x is greater" : "y is greater");  
    }  
}
```

☒ x is greater



☐ y is greater

☐ true

☐ false

✗ What is the output of the following program? \*

0/1

```
class MyClass {  
    public static void main(String[] args){  
        int a = 10;  
        System.out.println(++a++);  
    }  
}
```

☐ 10

☐ 11

☒ 12



☐ Compilation Error

Correct answer

☒ Compilation Error

✗ What is the output of the following program? \*

0/1

```
class Demo{  
    public static void main(String[] args){  
        int a = 10;  
        System.out.println(a++);  
        a++;  
    }  
}
```

☐ 10

☒ 11

☐ 12

☐ 13

✗

Correct answer

☒ 10

✓ What is the output of the following program? \*

1/1

```
class Demo{  
public static void main(String[] args){  
    int a = 0;  
    a +=5;  
    switch(a){  
        case 5: System.out.print("5");  
        case 10: System.out.print("10");break;  
        default: System.out.print("0");  
    }  
}  
}
```

- ☐ 5
- ☐ 10
- ☒ 510
- ☐ Compilation error





✓ What is the output of the following program?

\*

1/1

```
class Main{

    public static void main(String[] args){

        int a = 5;
        a +=5;
        switch(a){
            case 5: System.out.print("5");break;
            case 10: System.out.print("10");
                System.out.println(((a%2 ==0) ? "-even-" : "-odd-"));
                break;

            default: System.out.print("0");
        }

    }
}
```

- ☒ 10-even- ✓
- ☐ 10-even-0
- ☐ 10-odd
- ☐ Compilation Error

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