



Internal Assessment Quiz on Java

Total points **86/100**

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✓ class test1 * 3/3

```
{  
    public static void main(String[] input)  
    {  
        var rupee = "";  
        loop:  
        do  
        {  
            rupee += "x";  
            break loop;  
        } while (true);  
        System.out.println(rupee);  
    }  
}
```

- ☒ x ✓
- ☐ does not compile
- ☐ infinite loop
- ☐ exception



✓ import java.util.*;
class test1
{
 int color;
 public static void main(String a[])
 {
 var list = new ArrayList<Integer>();
 list.add(100);
 list.add(99);
 list.add(88);
 var num = 77;
 list.removeIf(x -> {int keep = num; return x == keep;});
 System.out.println(list);
 }
}

*

3/3

What is the output?

- ☐ []
- ☐ [77]
- ☐ [100, 99]
- ☒ [100, 99, 88]
- ☐ [99, 88]



✗ class test1

*

0/4

```
{
    enum Season { SPRING, SUMMER, WINTER, FALL }
    public int getAverageTemperate(Season s)
    {
        switch (s)
        {
            default:
            case WINTER: return 30;
        }
    }
    public static void main(String[] input)
    {
        test1 t1 = new test1();
        Season s1 = Season.FALL ;
        int value = t1.getAverageTemperate(s1);
        System.out.println(value);
    }
}
```

☐ does not compile

☒ 30

✗

☐ exception

☐ FALL

Correct answer

☒ does not compile



✓ class test1

*

3/3

```
{
    public static void main(String... start)
    {
        int m = 0, n = 0;
        while (m < 5)
        {
            m++;
            if (m == 3)
                continue;
            switch (m)
            {
                case 0:
                case 1:
                    n++;
                default:
                    n++;
            }
        }
        System.out.println(m + " " + n);
    }
}
```

☒ 5 5☐ None☐ 4 6☐ 3 9

✓ `var line = new String("-");`
`var anotherLine = line.concat("-");`
`System.out.print(line == anotherLine);`
`System.out.print(" ");`
`System.out.print(line.length() + anotherLine.length());`

*

3/3

Output-

☐ true 2 2

☐ true 1 2

☒ false 3



☐ false 1 2



✓ How many lines does the following code output? *

3/3

```
public class Cars {  
    private static void drive() {  
        static {  
            System.out.println("static");  
        }  
        System.out.println("fast");  
        { System.out.println("faster"); }  
    }  
    public static void main(String[] args) {  
        drive();  
        drive();  
    }  
}
```

- ☐ One
- ☐ Two
- ☐ Three
- ☐ Four

☒ The code does not compile



✗ import java.util.*; * 0/4

```
class test1
{
    public static void main(String... start)
    {
        var quest = .....;
        for(var zelda : quest)
            System.out.print(zelda);
    }
}
```

Choose suitable for blank space.

- ☐ new int[] {2}
- ☐ new StringBuilder("2")
- ☐ List.of(abc)
- ☒ new String[A] ✗
- ☐ "Java"
- ☐ 12

Correct answer

- ☒ new int[] {2}



✓ class test1

*

3/3

```
{  
    public static void main(String... start)  
    {  
        var builder = "98765";  
        builder = builder.substring(4);  
        builder = builder.concat("234");  
        System.out.println(builder.charAt(2));  
    }  
}
```

Output?

☐ 1

☐ 2

☒ 3



☐ 4

☐ 5

☐ None



✗ What is the output of the following application? *

0/3

```
package holiday;
enum DaysOff
{
    Thanksgiving, PresidentsDay, ValentinesDay
}
public class Vacation
{
    public static void main(String... unused)
    {
        final DaysOff input = DaysOff.Thanksgiving;
        switch(input)
        {
            default:
            case ValentinesDay:
                System.out.print("1");
            case PresidentsDay:
                System.out.print("2");
        }
    }
}
```

☐ 1

☐ 2

☒ 12

✗

☐ The code does not compile

☐ The code compiles but throws an exception at runtime

☐ None of the above

Correct answer

☒ The code does not compile



- ✓ Given the following class structures, which lines can be inserted into the blank independently that would allow the class to compile? (Choose two.)

*3/3

```
public class Dinosaur {  
    class Pterodactyl extends Dinosaur {}  
    public void roar() {  
        var dino = new Dinosaur();  
        _____;  
    }  
}
```

- ☐ dino.Pterodactyl()
- ☐ Dinosaur.new Pterodactyl()
- ☒ dino.new Pterodactyl() ✓
- ☐ new Dino(). new Pterodactyl()
- ☐ new Dinosaur().Pterodactyl()
- ☐ new Dinosaur.Pterodactyl()

- ✓ Fill in the blanks: The operators _____, _____, _____, are listed in increasing level of operator precedence.

*3/3

- ☒ ==, *, ! ✓
- ☐ *, --, /
- ☐ !, *, %
- ☐ *, <, /



✓ What statement best describes the notion of effectively final in ^{*3/3} Java?

- ☐ A local variable that is marked final
- ☐ A static variable that is marked final
- ☒ A local variable whose primitive value or object reference does not change after it is initialized ✓
- ☐ A local variable whose primitive value or object reference does not change after a certain point in the method
- ☐ None of the above



✓ What is the output of the Computer program? *

3/3

```
class Laptop extends Computer {  
    public void startup() {  
        System.out.print("laptop-");  
    }  
}  
  
public class Computer {  
    public void startup() {  
        System.out.print("computer-");  
    }  
    public static void main(String[] args) {  
        Computer computer = new Laptop();  
        Laptop laptop = new Laptop();  
        computer.startup();  
        laptop.startup();  
    }  
}
```

☐ computer-laptop-

☐ laptop-computer-

☒ laptop-laptop-



☐ The code does not compile

☐ None



✓ class test1 * 3/3

```
{  
    public static void main(String[] input)  
    {  
        var plan = 1;  
        plan = plan++ + --plan;  
        if(plan==1)  
        {  
            System.out.print("Plan A");  
        } else  
        {  
            System.out.print("Plan B");  
        }  
    }  
}
```

☐ Does not compile

☐ Plan A

☒ Plan B ✓

☐ Exception



✓ What is the output of the Turnip class? *

3/3

```
package animal;
interface Gameltem
{
    int sell();
}
abstract class Vegetable implements Gameltem
{
    public final int sell() { return 5; }
}
public class Turnip extends Vegetable
{
    public final int sell() { return 3; }
    public static void main(String[] expensive)
    {   System.out.print(new Turnip().sell());
    }
}
```

- ☐ 3
- ☐ 5
- ☒ The code does not compile ✓
- ☐ The code compiles but throws an exception at runtime
- ☐ None of the above



✓ Fill in the blanks: A class _____ an interface and _____ an abstract class. An interface _____ another interface. *3/3

- ☐ extends, extends, implements
- ☐ extends, implements, extends
- ☐ extends, implements, implements
- ☒ implements, extends, extends ✓
- ☐ implements, extends, implements
- ☐ implements, implements, extends

✓ class test1 * 3/3

```
{  
    public static void main(String[] input)  
    {  
        final var GOOD = 100;  
        var score = 10;  
        switch (score)  
        {  
            default:  
            case 1: System.out.print(GOOD+1);  
        }  
    }  
}
```

- ☐ 100
- ☒ 101 ✓
- ☐ does not compile
- ☐ exception- cannot change final variable value



✓ class test1 * 3/3

```
{  
    void drive()  
    {  
        var speed = 0;  
        while (speed)  
            System.out.print(speed++);  
    }  
}
```

- ☒ The code does not compile. ✓
- ☐ The method completes with no output.
- ☐ The method prints 0 and then terminates.
- ☐ The method enters an infinite loop.
- ☐ None of the above



✓ class test1

*

3/3

```
{  
    public static void main(String[] input)  
    {  
        var value = 30;  
        int num = value;  
        switch(value)  
        {  
            case 30: num++;  
            case 40: num+=2;  
            default: num--;  
        }  
        System.out.print(num);  
    }  
}
```

☒ 32☐ 30☐ does not compile☐ exception

✓ class test1

*

3/3

```
{  
    public static void main(String[] input)  
    {  
        var order = List.of("Tea", "Coffee", "Cold Drink");  
        for (int type = 1; type < order.size();)  
        {  
            System.out.print(order.get(type) + "-");  
            if(type < order.size()) break;  
        }  
        System.out.print("end");  
    }  
}
```

- ☐ Tea-end
- ☒ Coffee-end
- ☐ Cold Drink-end
- ☐ Compile time error



✓ What access modifier is used to mark class members package-private? *3/3

- ☐ default
- ☐ friend
- ☐ protected
- ☐ private

☒ None



✓ What is the result of compiling and executing the following class? *3/3

```
public class ParkRanger
{
    int birds = 10;
    public static void main(String[] data)
    {
        var trees = 5;
        System.out.print(trees+birds);
    }
}
```

- ☐ It compiles and outputs 5.
- ☐ It compiles and outputs 15.
- ☒ It does not compile. ✓
- ☐ It compiles but throws an exception at runtime.



✓ class test1

*

3/3

```
{
    static int start = 2;
    final int end;

    test1(int x)
    {
        x = 4;
        end = x;
    }

    public void cal(int distance)
    {
        System.out.print(end-start+" ");
        System.out.print(distance);
    }

    public static void main(String... start)
    {
        new test1(10).cal(5*5);
    }
}
```

Output?

☒ 2 25☐ 8 5☐ 8 25☐ 2 5

✓ Which of the following modifiers can be applied to an abstract method? (Choose two.) *3/3

☐ final

☐ private

☒ public ✓

☐ default

☒ protected ✓

☐ concrete

✓ class test1 * 3/3

```
{  
    int color;  
    public static void main(String a[])  
    {  
        var color;  
        var line = new String("-");  
        var anotherLine = line.concat("-");  
    }  
}
```

Which line will cause a compile error?

☐ Line 2

☒ Line 6 ✓

☐ Line 8

☐ Line 1



✓ class test1

*4/4

```
{  
    public static void main(String[] input)  
    {  
        var Comp = new String[] { "ORACLE", "MICROSOFT",  
"GOOGLE" };  
        var Lang = new String[] { "Java", "C#", "Go" };  
        for ( int i=1, j=1; i<Comp.length && j<Lang.length; i++, j++)  
            System.out.print(Comp[i] + "-" + Lang[j]);  
    }  
}
```

☒ MICROSOFT-C# | GOOGLE-Go |



☐ ORACLE-Java | MICROSOFT-C#

☐ MICROSOFT-Java | ORACLE-C#

☐ does not compile

☐ exception



✗ Which set of modifiers, when added to a method within an interface, prevents it from being overridden by a class implementing the interface? *0/3

☒ const ✗

☒ final ✗

☒ static ✓

☐ private

☐ private static

Correct answer

☒ static

☒ private

✓ Which of the following lines of code are not permitted as the first line of a Java class file? (Choose two.) *3/3

☐ import rcac.*;

☐ //rcac Manager

☒ int facilityNumber; ✓

☐ package quizathon;

☐ /** Author: Cid */

☒ void produce() {} ✓



✓ class test1

*

3/3

```
{  
    public static void main(String[] input)  
    {  
        int alpha = 88;  
        long beta = 33;  
        if(alpha % 3 > 1 + 1)  
            beta++;  
        beta--;  
        System.out.print(beta);  
    }  
}
```

☐ 2

☒ 32



☐ 34

☐ 33

☐ does not compile



- ✓ Given the following code, what values inserted, in order, into the blank lines allow the code to compile? (Choose two.) *3/3

```
_____ agent;  
public _____ Banker {  
    private static _____ getMaxWithdrawal() {  
        return 10;  
    }  
}
```

☐ package, new, int

☒ package, class, long ✓

☐ import, class, null

☒ //, class, int ✓

☐ import, interface, void

☐ package, class, void

- ✓ Which statements about static methods of interface are correct? (Choose three.) *3/3

☐ A static interface method can be final.

☒ A static interface method can be declared private. ✓

☐ A static interface method can be package-private.

☒ A static interface method can be declared public. ✓

☐ A static interface method can be declared protected.

☒ A static interface method can be declared without an access modifier. ✓



✓ class test1 * 4/4

```
{  
    public static void main(String[] input)  
    {  
        int abc = 10;  
        final int xyz = 10;  
        switch(abc)  
        {  
            default:  
                System.out.print("Google");  
                break;  
            case xyz:  
                System.out.print("Amazon");  
        }  
    }  
}
```

☐ Google

☒ Amazon ✓

☐ does not compile

☐ exception

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