2. **Directions:** This is a closed book, closed notes examination. Place your answers in the space provided. The point value of each question is indicated. There are a total of 60 points. Your total out of 60 will be weighted to 100 points. You have 55 minutes for this examination.

1. (6 pts) What is the output produced by the following statements?

   ```java
   System.out.println("\"There are some \s and some //s\")
   System.out.println("'and some other\nstuff going on\n\in this output!\")
   "There are some \s and some //
   'and some other
   stuff going on
   \in this output!"
   ``

2. (9 pts) What is the output of the following Java program?

   ```java
   public class Confusing {
   public static void main(String[] args) {
      method3();
      method2();
      method3();
      method1();
   }
   public static void method1() {
      System.out.println("I am method 1.");
   }
   public static void method2() {
      method1();
      System.out.println("I am method 2.");
   }
   public static void method3() {
      method2();
      System.out.println("I am method 3.");
      method1();
   }
   }
   I am method 1.
   I am method 2.
   I am method 3.
   I am method 1.
   I am method 1.
   I am method 2.
   I am method 1.
   I am method 2.
   I am method 3.
   I am method 1.
   I am method 1.
3. (6 pts) What does each of the following expressions evaluate to?

a) \((2.5 + 3) / (11 \% 10) + .1\)  
5.6

b) \(89 / 10 \% 4 + 5.5\)  
5.5

c) \(2 + 6.2 + \text{"hello"}\)  
\text{"8.2hello"}

4. (6 pts) Complete the code in the loop body below so that it prints the following sequence of values exactly as shown:

\[17, 14, 11, 8, 5, 2, -1, -4, -7, -10,\]

```java
for(int i = 10; i >= 1; i) {
    // put your code below here
    System.out.print(3*i - 13 +", ");
}
```

5. (6 pts) What is the output of the following code segment?

```java
for (int i = 1; i <= 2; i++) {
    for (int j = 1; j <= 3; j++){
        for (int k = 1; k <= 4; k++)
            System.out.print("*");
    }
    System.out.print("!");
}
```

```
***********!************!
```
6. (9 pts) Write a code segment (not an entire method or a program!) to produce the following output. Assume that the number 5 is printed in the first column

```
  11111
  2222
  333
  44
  5
```

```java
for (int i = 1; i <= 5; i++) {
    for (int j = 6-i; j >= 1; j--)
        System.out.print(i);
    System.out.println();
}
```

7. (9 pts) Complete the following program by writing the method trimString(). This method takes two parameters, a String and an integer. It returns a new String with characters removed from the end of the String. The integer is the number of characters to remove. For example, the output of the following program should be

```
hello
Here is another String to trim
This is not trimmed at all
```

```java
public class Q7 {
    public static void main (String [] args) {
        System.out.println(trimString("hello there", 6));
        String longString =
            trimString("Here is another String to trim***", 3);
        System.out.println(longString);
        System.out.println(trimString("This is not trimmed at all", 0));
    }

    // write the method below here

    public static String trimString(String s, int n) {
        return s.substring(0, s.length() - n);
    }
}
```

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8. (9 pts) What is the output of the following program?

```java
import java.awt.*;

public class Q8 {

    public static void main (String [] args) {
        double d = 4.7;
        Point p = new Point(-2, 3);
        System.out.println(d);
        System.out.println(p);
        questionEight(p, d);
        System.out.println(d);
        System.out.println(p);
    }

    public static void questionEight(Point point, double d) {
        d = d + 3.2;
        point.translate(3, 3);
        System.out.println(d);
        System.out.println(point);
    }

}
```

4.7
java.awt.Point[x=-2,y=3]
7.9
java.awt.Point[x=1,y=6]
4.7
java.awt.Point[x=1,y=6]