- Look at the java code and answer the following questions.

1- How many user-defined methods are defined in the code? Looking at their headers (signatures), can you specify what inputs and outputs they have? Do you see method overloading?

2- Can you write the output of this program? (For current time method, you don't need to calculate it, just write the current time)
public class Methods {

    public static int foo(int num) {
        System.out.println("Inside method foo. num is "+num);
        if (num % 2 == 1) { //odd number
            num++;
        } else {
            return 0;
        }
        System.out.println("return value is: "+num);
        return num;
    }

    public static int max (int a, int b) {
        if (a > b)
            return a;
        else
            return b;
    }

    public static String foo(double num) {
        if (num > 20) {
            return "BIGNUM";
        } else {
            return "littlenum";
        }
    }

    public static void displayCurrentTime() {

        // Obtain the total milliseconds since the midnight, Jan 1, 1970
        long totalMilliseconds = System.currentTimeMillis();

        // Obtain the total seconds since the midnight, Jan 1, 1970
        long totalSeconds = totalMilliseconds / 1000;

        // Compute the current second in the minute in the hour
        int currentSecond = (int)(totalSeconds % 60);

        // Obtain the total minutes
        long totalMinutes = totalSeconds / 60;

        // Compute the current minute in the hour
        int currentMinute = (int)(totalMinutes % 60);

        // Obtain the total hours
        long totalHours = totalMinutes / 60;

        // Compute the current hour
        int currentHour = (int)(totalHours % 24);

        // Display results
        System.out.println("Current time is "+currentHour+ ":"+currentMinute+ ":"+currentSecond+ " GMT");
    }
}
public static void main(String[] args) {
    System.out.println("Before method call");
    int x = foo(13);
    int y = foo(154);
    String z = foo(154.0);
    int a = max(24, 56);
    System.out.println("a: " + a);
    System.out.println("x: " + x + " y: " + y + " z: " + z);
    displayCurrentTime();
    System.out.println("After method call");
}