CSC 2310: PRINCIPLES OF COMPUTER PROGRAMMING
Lab 7

How to Submit
Please submit your answers to the lab instructor once you have completed.
Failure to submit will result in a **ZERO FOR THIS LAB. NO EXCEPTIONS**.

1. Consider the following method:

```
public static int mystery(int x, int y){
        if (x<y){
                return x;
        }else{
                return mystery(x-y,y);
        }
}
```

   What values are returned for each of the following calls?

   a. mystery(7,12)

   b. mystery(37,8)

   c. mystery(8,2)

2. Write a recursive method called printN() that takes one int parameter and prints the number from 1 to n. Do not use loops to print the numbers.

3. Write a recursive method called fib() that takes an int parameter and that prints the Fibonacci number at that location in the series. The Fibonacci sequence is a sequence of numbers in which the first two numbers are 1 and each subsequent number is sum of the previous two Fibonacci numbers. The sequence is 1,1,2,3,5,8,13,21, and so on. So fib(4) should print 3, fib(6) should print 8, fib(8) should print 21, fib(10) should print 55 and so on.