Wasfi Momen

CSC 2310 Lab

3 March 2016

Lab

1. Consider the following method:

public static int mystery(int x, int y) {

if (x<y){

return x;

}else{

return mystery(x-y,y);

}

}

a. mystery(7,12)

**7**

b. mystery(37,8)

**5**

c. mystery(8,2)

**0**

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

**public static void printN (int x) {**

**if (x > 1){**

**printN(x - 1);**

**}**

**System.out.println(x);**

**}**

1. Write a recursive method called fib() that takes an int parameter and that prints the Fibonnaci number at that location in the series. The Fibonnaci sequence is a sequence of fib(4) should print 3, fib(6) should print 8, and fib(8) should print 21.

**public static int fib (int x) {**

**if ( x = = 1 || x = = 0) {**

**return x;**

**} else {**

**return fib(x-1) + fib (x-2);**

**}**

**}**