

SimpleRecursion.java

```
1 /*
2  * Written by JJ Shepherd
3  */
4 import java.util.Scanner;
5 public class SimpleRecursion {
6
7     public static void main(String[] args) {
8
9         //countDown(5);
10        System.out.println(factorial(3));
11    }
12    public static void countDown(int i)
13    {
14        if(i < 0)
15            return;
16        System.out.println(i);
17        countDown(i-1);
18    }
19    public static int factorial(int number)
20    {
21        if(number <= 0)
22            return 1;
23        else
24            return number * factorial(number-1);
25    }
26    public static int gcd(int a, int b)
27    {
28        if(b == 0)
29            return a;
30        else
31            return gcd(b,a%b);
32    }
33    public static int fibo(int number)
34    {
35        if(number == 1 || number == 2)
36            return 1;
37        else
38            return fibo(number-1) + fibo(number-2);
39    }
40
41 }
42
```