## recursive-fuctions.cpp

```
1 /*********************************
2 * AUTHOR :Faris Hijazi
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4 * LAB #12 : Recursion Performance
5 * CLASS
         :CS1B
6 * SECTION :MW: 7:30pm
7 * DUE DATE :4/30/19
10 #include "header.h"
11 /********************************
12 * This function will find the factorial of an int, num recursively
14 * INPUT:
15 * num - long long integer
16 * OUTPUT:
17 *
     factorial of num
19 long long factorialR(long long num)
20 {
21
    if (num <= 1)
22
23
      return 1;
24
   }
25
   else
26
      return num*factorialR(num-1);
27
28
29 }
30
31 /**********************************
32 * This function will output the fibonachi number at num recursively
33 *-----
34 * INPUT:
35 * num - number of numbers in series to calculate
36 * OUTPUT:
37 * fibonachi number
39 long fibR(long num)
40 {
41
    if (num <= 1)
42
43
      return num;
44
45
    return fibR(num-1) + fibR(num-2);
46 }
```