

SeriesFib.cpp

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1 /*****
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4 * ASSIGNMENT #4 : Assessing Recursion Performance
5 * CLASS        : CS 1B
6 * SECTION      : MW - 7:30 pm - 9:50 pm
7 * DUE DATE     : 11/26/2019
8 *****/
9
10 #include "MyHeader.h"
11
12 /*****
13 * SeriesFib
14 *   This function will calculate the fibonacci number of user's number
15 *   input
16 *
17 *   returns integer -> fibonacci result of the target number
18 *****/
19
20 int SeriesFib(int userInp) //IN & PROCESS - user's input
21 {
22     /*****
23     * VARIABLE *
24     *****/
25
26     long long fib; //PROCESS & OUT- fibonacci series of user input num
27
28
29     /*****
30     * INITIALIZE *
31     *****/
32
33     fib = userInp;
34
35     //if statement for 0 or 1 input
36     if(userInp == 0 || userInp == 1)
37     {
38         return fib;
39     }
40
41     else
42     {
43         fib = SeriesFib(fib - 1) + SeriesFib(fib - 2);
44         return fib;
45     }
46 }
47
48
49
50
```