SeriesFibLoop.cpp

```
1 /*************************
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3 * STUDENT ID
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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
10 #include "MyHeader.h"
11
12 /*************************
13 * SeriesFibLoop
      This function will calculate the fibbinacci result number of
15 *
       user's number input using a loop
16 *
17 *
       returns integer -> fibbonacci result of the target number
20 int SeriesFibLoop(int userInp) //IN & PROCESS - user's input
21 {
22
     /******
23
     * VARIABLE *
24
     **********/
25
26
     //INTEGERS
27
28
     long long i;
                     //PROCESS & OUT - fibonacci series of user input num
     long long x;
29
                     //PROCESS - number for n - 1
                     //PROCESS - number for n - 2
30
     long long v;
31
     int z;
32
33
    /*********
34
     * INITIALIZE *
35
     ************/
36
37
     i = 1:
38
     x = 0;
     y = 1;
39
40
     z = 2;
41
42
     //While loop for number of times
43
     while (z <= userInp)</pre>
44
     {
45
        x = y;
46
        y = i;
47
48
        i = x + y;
49
50
        Z++;
51
     }
52
53
     //returns an integer to the main
54
     return i;
55
```

56 } 57