FactLoop.cpp

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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 * FactLoop
      This function will calculate the factorial number of user's number
15 *
      input using a loop
16 *
17 *
      returns integer -> factorial result of the target number
20 int FactLoop(int userInp) //IN & PROCESS - user's input
21 {
22
23
     /******
24
     * VARIABLE *
25
     *********/
26
27
28
     long long factTot; //PROCESS & OUT - factorial of the user input number
29
     int i;
                  //PROCESS - loop LCV
30
31
     //if statement for 1 or 0 input
     if(userInp == 0 || userInp == 1)
32
33
     {
34
        factTot = 1;
35
        return factTot;
     }
36
37
38
     else
39
40
        for(i = 2; i <= userInp ; i++)</pre>
41
        {
42
           factTot = factTot * i;
43
44
45
        //returns an integer to the main
46
        return factTot;
     }
47
48 }
49
50
```