Fact.cpp

```
1/*************************
2 * AUTHOR
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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 * factNum
      This function will calculate the factNumorial of user's number.
15 *
16 *
      returns integer -> factNumorial of the target number
19 int Fact(int userInp) //IN & PROCESS - user's input
20 {
21
22
     /*******
23
     * VARIABLE *
24
     **********/
25
26
     long long factNum;
                        //PROCESS & OUT - factNumorial of user input number
27
28
     /******
29
     * INITIALIZE *
30
      ***********/
31
32
     factNum = userInp;
33
34
     //if statement for user input
35
     if(userInp == 0 || userInp == 1)
36
     {
        factNum = 1;
37
38
        return factNum;
39
     }
40
     else
41
42
     {
43
        factNum = factNum * Fact(userInp - 1);
44
        return factNum;
45
     }
46 }
47
```