Program 1: Lg Lg n

The purpose of this exercise is to get you started in C# by writing a simple C# program, compiling and running it, and turning in your source code and executable electronically. Please use Microsoft Visual Studio under Windows for development. You can do the projects for this class in the ulab machines booted in Windows. Note that you should save your project on a network drive, not the C: drive. Microsoft offers a free version of Visual Studio for Windows online.

Your program should compute floor(lg lg n) without using any special math library functions to compute lg. It should be a command-shell program like the example below (which uses a rather poor algorithm to compute the Nth Fibonacci number).

Turn in your program by zipping up your entire project directory and uploading that through the moodle assignment. Also turn in the program information sheet on the opposite side of this page.

Use good programming style, including comments as needed, consistent indentation, appropriate variable and function names, good organization, etc.

```
/****************************
 * Simple sample C# selection, showing stdin, stdout, static, cetera
 * Harry Plantinga, 9/2011
 ****************************
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text
namespace Fib
   class Program
       static void Main(string[] args)
          Console.WriteLine("Fantastic Fib Finder!");
          while (true)
              Console.Write("\nEnter N: ");
              long n = long.Parse(Console.ReadLine());
              long fib = Fib(n);
              Console.WriteLine("Fib(\{0\}) = \{1\}.", n, fib);
       }
       static long Fib(long n)
          if (n \le 2)
             return 1;
             return Fib(n - 1) + Fib(n - 2);
       }
   }
}
```

CS212 Program 1 – Grading Sheet Due date: _____

Name:	Section:	Date turned in:	Late?
Parts of the program I didn't go	et to work:		
Comments on this assignment:			
Program compiles and runs		der's Use	
Correctly compute floor(lo	g log n) withou	ut using library function	s (30)
Good programming style in	ncluding comm	nents as described (10)	
Mechanics: turn in program	n grading shee	t; submit electronically (
		T	otal (100)