# 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.

---------Fib.cs------------

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* Simple sample C# selection, showing stdin, stdout, static, cetera

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* Harry Plantinga, 9/2011

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ 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 <= 2) return 1;

else return Fib(n - 1) + Fib(n - 2);

}

}

}

# CS212 Program 1 – Grading Sheet Due date: Sept 9, 2023

**Name: Jacob Tocila Section: A Date turned in: Sept 8, 2023 Late? No**

Parts of the program I didn’t get to work:

I got the program to work without any major issues. I only struggled with learning the new syntax and brushing up on the while loop since I haven’t used one in a while.

Comments on this assignment:

I liked this project.

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| --- | --- | --- |
| • | Program compiles and runs (50) | \_\_\_\_\_ |
| • | Correctly compute floor(log log n) without using library functions (30) | \_\_\_\_\_ |
| • | Good programming style including comments as described (10) | \_\_\_\_\_ |
| • | Mechanics: turn in program grading sheet; submit electronically (10) | \_\_\_\_\_ |
|  | **Total** (100) | \_\_\_\_\_ |