Spring 2017
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EECS 338 Assignment #1

(*30 Points*)

Due: January 30, 2017, Monday

The purpose of this assignment is for you to login to one of the virtual Linux machines (i.e., *eecslab-1, eecslab-2, eecslab-3, eecslab-4*), use a linux editor, code a C program, and run it via a *makefile.*

You are to compute and print the "next" Fibonacci number alternatively using the recursive formula

$$f_i = f_{i-1} + f_{i-2},$$

As you also know, Fibonacci numbers increase exponentially; and you can only print a small number of Fibonacci numbers. So, stop execution after, say, 15 iterations.

Remember to produce meaningful print statements like " *The Fibonacci number f_y is zzz*", etc., instead of just numbers.

Use the Unix shell command "*script*" to record the entire session.

You must use a *Makefile* to compile your assignment (see the recitation code page for numerous *Makefile* examples), and include the *Makefile* with your submission. You can develop your code on your own linux/Unix environment. However, do not forget that your program will be run and tested on the *eecslab-X* virtual machine, so make sure that it compiles there. Also include a file containing the output of your program, which you can obtain via redirecting standard out as in: *"./yourprogram &> output.txt"*

On the due date, submit your code, Makefile, and program output to Blackboard as a single zip file named "*as1.zip*"