SSE Assignment 1a

Consider the program given in **buffer.c** invokes the function **fib**

(1) What does this program do?
(2) Describe a vulnerability in the program.
(3) Draw the stack layout for the given program.
(4) Write the contents of str before gets executes?
(5) Which are the registers used to add fib(n-1) + fib(n - 2)?
(6) If n is very large, it is likely to crash the program because the stack will overflow. Find the value of n which crashes your program. Estimate the size of your stack from this value of n.
    Hint: A naive idea will take too long. You may need to modify the program.
(7) FInd a way to increase the stack size for your program.