



THE UNIVERSITY OF ZAMBIA

SCHOOL OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

ENG 2139 - ASSIGNMENT No 1 ON RECURSIVE FUNCTIONS

Q1. The Fibonacci numbers are generated by setting $F_0=0$, $F_1=1$, and then using the recursive formula: $F_n = F_{n-1} + F_{n-2}$

Write a C++ recursive function that can compute the Fibonacci sequence of any unsigned long number. You should then call this recursive function from your main function in which you will request the user to input an unsigned long number of their choice, then you read it and pass it to the Fibonacci C++ recursive function.

Your result will be displayed with a message "You entered the number: 'value of n', and its Fibonacci sequence is: 'the return value of Fibonacci C++ recursive function'".

[10 Marks]

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