ANKARA UNIVERSITY

COMPUTER ENGINEERING DEPARTMENT

Computer Programming II

Spring 2022-23

LAB2 Quiz
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The Fibonacci sequence is a sequence where the next term is the sum of the previous two terms. The first two terms of the Fibonacci sequence are 0 followed by 1. Fibonacci sequence goes like 0,1,1,2,3,5,8,13,21,34.
Write a program that finds the n'th(n.) number of Fibonacci Series according to input n. Also print the stars (*) on each line and write the n. number next to stars. The number of stars must be equal to belonging line number. For first row, you should print one star and Fibonacci number which is 0, for second row you should print two stars and Fibonacci number which is 1. This order should continue until the given number of n is reached. If the input is equal to 0 you should print “Error”. Please check the I/O files for better understanding.

I/O Format:

Input format: Integer number

Output format: Stars and Fibonacci number
n. Fibonacci number

Example:

Input:

0

Output:

Error

Input:

1

Output:

* 0

1. element is 0

Input:

7

Output:

* 0

* * 1

* * * 1

* * * * 2

* * * * * 3

* * * * * * 5

* * * * * * * 8

7. element is 8

Submission:

1- Name your C source file as <student_id>.c; replace <student_id> with your student id number.

2- Upload your C file using the interface provided in e-kampüs course page.

Compiling Process

Compiling your program and to use the input file

//normal compile process
gcc yourfilename.c -o yourprogramname

//running compiled program
./yourprogramname

//to use .txt file as input
./yourprogramname<input.txt

// to use .txt file as input and to print the results to .txt file
./yourprogramname<input.txt>output.txt

// to compare two files
diff -w filename1 filename2

Please, PAY ATTENTION TO THE I/O FORMAT!