
Lab and Homework 02

Problem 1

Remember a factorial problem in the previous homework? Make a function named `factorial(n)` and try calling it from main function.

> Save to **L03_ex_01.c**

Problem 2

Make a recursive function to print n^{th} Fibonacci series, `fibonacci(n)`. Try using this function to print the first ten terms of the series.

> Save to **L03_ex_02.c**

Problem 3

Create the grading system for a school teacher.

- Teacher will input each student' score from keyboard. (So, you need to store scores in an array.)

- The grading criteria is simple:

>=80 gets A, >= 70 gets B, >= 60 gets C, >= 50 gets D, else F.

- The result would be printed as:

Student 1: score = 85.5, gets A

Student 2: score = 63.5, gets C

> Save to **L03_ex_03.c**

Problem 4 (optional)

Solve $\mathbf{Ax}=\mathbf{b}$ using Gaussian elimination. A test on 3 x 3 system would be enough.

You would find out more on the algorithm from [\[Wolfram\]](#) or [\[Wikipedia\]](#).

> Save to **L03_ex_04.c**

Zip and send it to puwis.ama@mahidol.ac.th. The due is at 08:00AM, 14 Feb 2019. Late penalty is similar to the previous homework.

Good luck and have fun.