

# CSE2031

## lab test 1

Friday Oct. 30, 2009

- Write a program that reads an integer in a line by itself ( $n$ ), then the next line reads  $n$  integers and display the maximum and minimum numbers. The numbers are displayed as the minimum right justified in 4 digits followed by 2 spaces, then the maximum right justified in 4 digits (no new line after the maximum).

Submit as submit 2031 m1 m1.c

- Extend your last program to repeat the operation until it reads a value of  $n=0$ . In this case every max min is on a separate line, again no new line after the last one

Submit as submit 2031 m2 m2.c

- Write a C program that reads a sequence of 6 floating points numbers on one line. The program examines the sequence if it is arithmetic sequence, geometric sequence, or non at all. The program should display one of three words followed by a new line, these words are ARITHMETIC, GEOMETRIC, NON.

An arithmetic sequence is a sequence of numbers such that difference of any two successive members of the sequence is a constant, for example -4 -1 2 5 8 ...

A geometric sequence is a sequence of numbers such that any number except the first one is found by multiplying the previous number by a fixed non zero constant, for example 0.5 1.5 4.5 13.5, ...

Submit as submit 2031 m3 m3.c