

EECS 2032

Lab 5 Fall 2020

In this lab we start with the C programming. You will design, code and test Simple C code using simple I/O, loops, and conditional statements. The lab should be submitted as **submit 2032 LAB5 file_name**

Problem 1

Write a c program that reads an integer (n) followed by n floating point numbers. The program then displays either YES or NO followed by a new line according to the following rule.

If the n numbers alternate in sign (positive to negative) display YES

If the numbers don't alternate, display NO

Note it doesn't matter if the first number is a positive or negative, they have just to alternate

Name the file lab5_1.c

Problem 2

Write a C program that reads data from the standard input (no restrictions on the data type) and prints an integer which is the number of characters read until the first space or tab. Followed by a new line. The integer should be written in 6 spaces right justified.

Name the file lab5_2.c

Problem 3

Write a C program that reads a sequence from the standard input. The sequence should some ASCII characters that may include letters, digits, special characters, spaces or tabs but not new lines.

The program should display three lines, each line contains one integer

First line, the length of the string

Second line, The number of spaces or tabs

Third line, the number of words (words are separated by one or more white space

Do not use any string function, and string function will result in 0 mark

Name the file lab5_3.c