EECS2301E

Lab 5
Fall 2018

Lab Objectives

In this lab you will learn how to read from files and the use of loops and if statement in bash.

Problem 1

Write a C program that reads a sequence of numbers and display a message
1. The numbers a re red from the standard input.
2. The first number is the length of the sequence (n) followed by n numbers.
3. If n is 0 or negative, the program displays the message "Error_1" followed by a new line on the standard input.
4. If the length is shorter than n, it displays "Error_2" followed by a new line and quits.
5. The program inspects the list and display one of the following messages (every one of them is followed by a newline)
   - "Ascending" if the list is strictly ascending. That is every number is greater than the previous one for example 1 4 6 8 12 34
   - "Descending" if the list is strictly descending. That is every number is less than the previous one for example 78 34 29 15 8
   - "Not Descending" if the list is ascending. That is every number is greater than or equal the previous one 1 3 5 9 9 12 17
   - "Not Ascending" if the list is ascending. That is every number is less than or equal the previous one. For example 100 89 89 73 45 3
   - "EQUAL" this is the case when all the numbers are the same for example 5 5 5 5 5 5 5

Submit EECS2031E Lab_5 a1.c