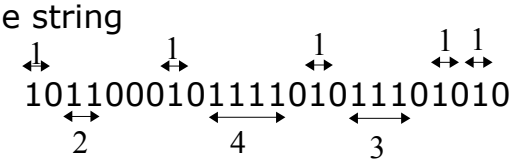
EECS 2032

LAB 5
Fall 2019

In this lab, you will write programs using loops and strings

Problem 1

Write a program to the maximum run of 1's in a string of 1 and 0's
For example, consider the string



There are 8 groups of 1's. 5 of them contains a single 1, and the other three contains runs of 2,4,3. The maximum run is 4

Specifications

Your program reads from the standard input one string terminated by a white space.

If the string contains any character other than 1 or 0, your program prints "invalid string" without the quotes followed by a new line then quits.

Otherwise, your program prints one integer, that the maximum run of 1's followed by a new line and quits.

Submit the file as submit 2032 LAB5 lab5_1.c

Problem 2

Write a program to read an integer and display an integer that is formed by reversing the digits in the integer you read.

For example 34516 becomes 61543

Specifications

Read one integer, display one integer followed by a new line
You should be able to read up to the maximum size of unsigned long long

Submit as submit 2032 LAB5 lab5_2.c