

CS 2204 Lab 8

your name here (please print):

your student ID number here:

Create a subdirectory called `lab8` under your home directory. Perform any necessary work for this lab assignment in that directory. All files mentioned below are available from the web location <http://courses.cs.vt.edu/~cs2204/fall2005/assignments/> (just append the filename to the above URL to obtain the file).

1. (3 points) Recall what the `uniq` command does. Write a `gawk` script with similar functionality. For the sample input file `example.in`, `example1.out` shows what the output should be. You might find the `gawk` command `next` useful (do a `man gawk` to see what this does).
2. (4 points) Extend the `gawk` script that you wrote in the previous question but, this time, remove duplicate lines even if they are not adjacent lines in the file. So we are creating a more powerful command than `uniq`. For the sample input file `example.in`, `example2.out` shows what the output should be.

3. (3 points) Assume you are given a file of names and telephone numbers, such as in `oldphonenumbers.txt`. We would like to **sort** it by last name, then by first name, then by middle initial, and finally by the phone number, so that we get the output shown in `newphonenumbers.txt`. Write your **sort** command in the space below.