CS 2204: Homework #2

Assigned: September 20, 2005
Date Due: September 26, 2005, at beginning of class, in McB 133
What to turnin: A legible paper copy giving your answers

Write `egrep` commands to operate on an input file and

1. (2 points) Find all lines containing US postal abbreviations for states (you can assume that a postal abbreviation is two uppercase letters). For the example `sample.txt` file given, make sure that your pattern does not output line 18.

2. (1 point) Find all lines listing US city references. A US city reference is like 'Portland, OR', i.e., a word, followed by a comma, a space, and then a two-letter state abbreviation.

3. (2 points) Find all lines listing university courses. A university course is a word, followed by a space, followed by exactly four digits. For the example `sample.txt` file given, make sure that your pattern does not output line 13.

4. (1 point) Find all lines containing formatted dollar amounts. These begin with a '$', followed by a whole dollar amount (i.e., a succession of one or more digits), then a ".", and finally, exactly two digits denoting the cents.

5. (1 point) Find all lines mentioning people who have long names. A long name is defined to be one whose "last name" part is more than 10 characters. Recall the problem worked out in class that defines what a 'name' is. You merely have to modify that to insist that the last name part must be more than 10 characters.

6. (2 points) Find all lines containing badly started sentences. A well started sentence is one that begins with an uppercase character. Make sure your pattern outputs line 18, among possibly others. Notice that line 18 has two sentences and one of them is a badly started sentence.

7. (1 point) Find all blank lines, i.e., lines containing nothing.