

CS 2204: Homework #3

Assigned: September 26, 2005

Date Due: October 3, 2005, at beginning of class, in McB 133

What to turnin: A legible paper copy giving your answers

Assume you are given the same file `faculty.details` as in the Sep 26 lecture session (also available at: <http://courses.cs.vt.edu/~cs2204/fall2005/assignments/faculty.details>). Write `sed` commands to operate on this file and perform the following operations.

1. (1 point) Print every entry in a readable form, e.g., “so-so, whose office is at so-so, is teaching course so-so.”
2. (3 points) Faculty in Torgersen Hall work in bioinformatics, except for Godmar Back. Faculty in McBryde Hall, except for Dennis Kafura, work in HCI. These two faculty members work in operating systems. For each faculty line, put out a line after, listing their area of work.
3. (3 points) Learn what the `sed` command `y` does. Then, go through each line of `faculty.details` and capitalize every character appearing in it.
4. (3 points) Delete every alternate line. This is not directly possible with `sed` (at least, using what you know so far). Do a `cat -n` to get line numbers. Then pipe the output to `sed` which can use the line numbers to delete alternate lines (let us assume that the first line should be retained, so that all even number lines must be deleted). Make sure the final output does not have line numbers in it.