

CpSc 207, Project 1 Spring, 2016; Dr. Conlon

The file *classlist.html* is an excerpt from a Web page that displays data about the students in this class. Write a shell script to strip out unneeded text and reformat the data to appear like the following:

#	Name	ID #	Reg Method	Level	Cred	Email
1	Chapin, Kayla M.	A00958444	Web	Undergrad	3.000	kmc1034
2	Ding, Anqi	A00934919	Web	Undergrad	3.000	axd1046
3	Fustich, Joshua J.	A00793728	Web	Undergrad	3.000	jxf1057
4	Gamble, Christopher G.	A01121965	Web	Undergrad	3.000	cgg1005
5	Gramsky, Alexander J.	A00852842	Web	Undergrad	3.000	ajg1009

(Include the entire class, not just the first five.)

- Columns should be separated by two spaces.
- Width of the *name* column should be determined by the longest name in the class.
- The first column should be three characters wide to allow for class sizes into the hundreds.
- Write your code as generically as possible, not for just this file. For example, do not write code containing any of the names from the class, and do not determine the width of the *name* column in advance of runtime.
- You might have to read ahead in the text to get specific information about regular expressions, *awk*, and *sed*.
- After the interpreter line, your code should contain heading comments in the following format:

```
# Author: <your name>
# Course: CpSc 207-01
# Instructor: Dr. Conlon
# Initiation date: March 4, 2016
#
# Purpose of program: <a brief description of the problem>
#
# Date of last modification: March 4, 2016
```
- Comment your code liberally, especially where the code might be difficult to understand.
- Indent to show structure. Be consistent in your indentation increments. 4 characters per increment is usually good.
- Restrict all lines to 80 characters, so there will be no line-wrapping upon the printing of your code listing (because line-wrapping obscures program structure).
- Print your listing from unix using the *lpr* command. Do not use a word-processor for this. This will give you 60 lines of 80 characters of a mono-spaced font per page.

On or before Monday, March 21, you must see me at my office to demonstrate significant working, although incomplete, code. This will be worth 15% of your grade for the project.

This project is due at 3 p.m., Tuesday, March 29. Submit this sheet, rubric side up, stapled to your code listing. The top of the rubric should be to the left. Staple in the upper-left corner (relative to portrait orientation). Thus, the staple should go above the text on every page.