Modifying Programs

Week 3

Laboratory

Getting Set up

- Download coreutils-7.6 to your home directory
- Download the patch to your home directory
- Untar and Unzip it
 - tar -xvf coreutils-7.6.tar.gz
- Make a directory coreutilsInstall in your home directory (this is where you'll be installing coreutils)

Compiling

- Go into coreutils-7.6 directory. This is what you just unzipped.
- Read the INSTALL file on how to configure "make," particularly the --prefix flag.
- Run the configure script so that when everything is done, coreutils will be installed in the directory ~/coreutilsInstall
- Compile it: make
- Install it: make install

Applying the Patch

- Use the link provided
- Copy the patch code to a text editor, VIM or EMACS, and save it, name doesn't matter
- Move patch code to the coreutils directory
- Use "patch -p1 -fuzz=5 < patchfilename"</p>
- Recompile it: make

Homework

Running Python scripts

- Make sure it has executable permission: chmod +x randline.py
- Run it

./randline.py -n 2 filename

n: is an option indicating the number of lines to write

2: is an argument to n (you can use any number)

Filename: is a program argument

Use ./randline.py -h for full usage options

Python Tuples and Lists

- months = ('January', 'February', 'March', 'April', 'May', 'June',
 'July', 'August', 'September', 'October', 'November', 'December')
- months[1] = February
- cats = ['Tom', 'Snappy', 'Kitty', 'Jessie', 'Chester']
- cats.append('Catherine')
- del cats[1]

Python Dictionaries

- phonebook = {'Andrew Parson':8806336, 'Emily Everett':6784346, 'Peter Power':7658344, 'Lewis Lame':1122345}
- phonebook.has_key('Andrew Parson')
- del phonebook['Andrew Parson']
- phonebook['New Guy'] = 1111111
- names = phonebook.keys()
- numbers = phonebook.values()
- More info http://docs.python.org/tutorial/datastructures.html