Assignment 0

PLs Warmup

All Parts Due: 11:59 PM, Saturday, January 23, 2016 (i.e., very soon!)

Ideally, get it done by Friday.

You may work on this assignment by yourself, or with a partner. If you work with a partner, you both must read all the necessary readings.

If you’re working as a pair, time together as a pair is valuable, you should probably read the whole assignment and the assignment readings before you meet up as a pair to work on the assignment.

CS Wiki Registration

Register for the CS wiki (if you have not done so already) at http://www.cs.hmc.edu/wiki/TWiki/TWikiRegistration. There’s a link to this page in the WikiHowTo section of the course wiki (which is at http://www.cs.hmc.edu/cs131/).

Readings

Read the two PDF files provided in the homework area of the wiki, which are

1. A talk by Admiral Grace Hopper
2. An essay by Paul Graham

For each one, you will need to write an exactly 42-word summary of the most important or most interesting point(s). In addition, for the second one, you will need to briefly explain, in exactly 42 words, why you believe he is or is not correct.

Also, if you’ve not used Subversion before, read the SubversionHowTo on the wiki.

Working with Subversion

In this class, we use Subversion to manage assignment submissions. Our setup has protected subareas both for you and for every possible pairing with you and another member of the class. This setup allows us to see your work but should deny access to anyone else in the class. The process for setting up the assignment files is given in CopyingAssignmentFiles on the wiki, but for this assignment we’ll describe all the steps here in more detail.

1. **YOUR REPOSITORY’S URL**

   The URL for a student’s or student-pair’s CS 131 repository is (or rather will be, once you make it)

   https://svn.cs.hmc.edu/cs131/spring16/ours/«dirname»
where «dirname» is the name of your directory. When you work by yourself your directory name should just be your knuth userid. When you work as part of a pair, your directory name is formed by joining together each of your knuth userids, *in alphabetical order*, with a hyphen. Thus, if Mary Jones (mjones) and John Smith (jsmith) were working together, their group name would be jsmith–mjones.

Note that

- It’s https, not just http, and,
- Just because it is a URL doesn’t mean you’ll use your web browser for anything.

2. **Create the toplevel directory for yourself or your pair**

Create your directory in the course repository by running

```
svn mkdir -m "Create group" https://svn.cs.hmc.edu/cs131/spring16/ours/«dirname»
```

where «dirname» is your group’s name. The Subversion server requires a username and password; use your normal CS id and password (the one you use to log into the CS machines).

Then check out a working copy of your shared directory. Each student only has to do this step once (unless you decide to completely delete your working copy and check out a fresh copy, or choose to work on two unrelated machines, such as your dorm computer and one of the lab machines).

3. **Checkout Your Toplevel Directory**

Check out your own working copy of your shared repository by running the following commands:

```
mkdir -p ~/courses/cs131
chmod go-rwx ~/courses/cs131
cd ~/courses/cs131
svn checkout https://svn.cs.hmc.edu/cs131/spring16/ours/«dirname»
```

(If you’re part of a pair, each students should do this in their own account.)

4. **Clone the Assignment Directory and Files**

The rest of the exercise will take place in a provided directory, hw0. You don’t yet have a copy of that directory—you need to copy it from my distribution area in the CS 131 repository. To copy over the hw0 directory, *one person* should run

```
cd ~/courses/cs131/«dirname»
svn copy https://svn.cs.hmc.edu/cs131/spring16/given/hw0 hw0
svn commit -m "Copied over hw0 files"
cd hw0
```
If you’re working as part of a pair, the other person should then run the following commands for their working copy:

```
cd ~/courses/cs131/«dirname»
svn update
cd hw0
```

You might want to try running `svn update` before the other person commits just to see what happens, which should be nothing. You won’t ever see changes until they have been committed to the repository.

In the `hw0` directory, you should both find the file `responses.txt`.

5. **Write Your Answers**

   Edit `responses.txt` to contain your answers. Feel free to play with other Subversion commands until you’re happy with using Subversion.

6. **Commit Your Answers**

   Run `svn commit` to commit your answers, thereby submitting your homework.