This programming project will give you experience with MPI using the Monte Carlo code shown in class. To get full credit on this programming project, you MUST use MPI appropriately.

To begin, log in to the OSCER Linux cluster, boomer.oscer.ou.edu, using PuTTY, as shown in the previous programming project. In class, you will be given sheet of paper describing an account with a user name and an ugly password. The procedure for logging in to boomer will be the same as for logging in to lincoln, kennedy or roosevelt, except that you should use the account name and password that you have been given in class.

The very first time that you log in to boomer with your new account, you should change your password as follows. At the Unix prompt, type

```
passwd
```

All Unix commands and inputs should be followed by pressing the [Enter] key, unless explicitly stated otherwise.

You will then be prompted to type your original (ugly) password. Enter it.

You will then be prompted to type your new password, which you must choose. The new password must be a combination of letters and digits, and must not contain any dictionary words, including words with intentional misspellings (e.g., replacing the letter L with the digit 1). Enter it. You will then be prompted to type your new password AGAIN. Enter it. If boomer refuses to accept your new password, then choose a better password and try again.

Once you have chosen the new password, you will not need to do so again; you will only need to set your new password ONCE.

Next, you’ll need to copy the materials you need from Dr. Neeman’s home directory to yours:

```
cd ~
cp -r ~hneeman/ChE5480/ .
```

Note the period at the end of the cp (copy) command; it means ”to the current working directory,” which will be your home directory (since the cd command, above, changes you to your home directory).

Next, change to your new ChE5480 directory:

```
cd ChE5480
```

Note that the directory name has one lower case letter, the h, and two upper case letters, the C and the E, but that it has no spaces.

You can then find detailed instructions about what to do in the file named README.txt.