

Project 1: Warm-up Project

Important Dates

Due: ~~Monday 2/01~~ **Tuesday 2/02** by 10pm.

Questions?

Send questions to **537-help@cs.wisc.edu** (or, of course, visit us in person during office hours!). If the question is about your code, copy all of your code into your handin directory (details below) and include your login in your email (you are free to modify the contents of your handin directory prior to the due date). Also include all other relevant information, such as cutting and pasting what you typed and the results from the screen. In general, the more information you give, the more we can help.

Overview

There are two parts to this project:

- [Sorting](#): to be done on the lab machines (macaroni-*, adeline-*, galapagos-*, king-*), so you can learn more about programming in C on a typical UNIX-based platform (Linux)
- [Kernel Intro](#): to be done in our xv6 hacking environment, so you can learn more about what actually goes on in a real kernel.

Click on the above links to learn more about what you should do. **READ EACH CAREFULLY!**

Notes

Before beginning: Read [this tutorial](#). It has some useful tips for programming in the C environment.

This project should be done alone. Copying code (from others) is considered cheating. Read [this](#) for more info on what is OK and what is not. Please help us all have a good semester by not doing this.

Handing It In

For the C/Linux part of this project (sorting), you should turn in one file, called `fastsort.c`. We will compile it in the following way:

```
shell% gcc -O -Wall -o fastsort fastsort.c
```

so make sure it compiles in such a manner. You should copy this file into your

handin directory into the subdirectory called `linux` .

The handin directory is `~cs537-1/handin/login/p1` where `login` is your login. For example, Remzi's login is `remzi` , and thus he would copy his beautiful code into `~cs537-1/handin/remzi/p1` . Copying of these files is accomplished with the `cp` program, as follows:

```
shell% cp fastsort.c ~cs537-1/handin/remzi/p1/linux/
```

For the `xv6` part of the project, copy all of your source files (but not `.o` files, please, or binaries!) into the `xv6/` subdirectory of your `p1` directory. A simple way to do this is to copy everything into the destination directory, then type `make` to make sure it builds, and then type `make clean` to remove unneeded files.

```
shell% cp -r . ~cs537-1/handin/remzi/p1/xv6
shell% cd ~cs537-1/handin/remzi/p1/xv6
shell% make
shell% make clean
```

Finally, into your `p1` directory, please include a `README` file. In there, describe what you did a little bit. There is no particular requirement for the length of the `README`; just get in the habit of writing a little bit about what you did, so that another human could understand it.