

How to do all this firefly, sftp, ssh bullshit  
by Leeson  
for Mac

connect laptop to usb-ethernet dongle  
connect dongle to ethernet cable  
connect ethernet cable to firefly board  
connect firefly board to micro usb cable  
connect micro usb cable to power

open terminal

getting into the board:

```
ssh firefly@18.125.5.100
```

enter "firefly" for password

cool now you're in there; all usual linux commands apply (cd to move around, ls, etc.  
see bandit guide in my notes for more info)

getting files on laptop onto board:

open new terminal tab, because the existing one is "inside the board" and you need one  
that starts from "inside your laptop"

navigate to folder where files are (ex: CDA Computer Organization folder)

```
sftp firefly@18.125.5.100
```

enter "firefly" for password

to move the file "example.s" onto board, type:

```
put example.s
```

useful commands in the board:

```
rm *
```

when you edit a script on the laptop, just delete it from the board with rm, and reupload  
it via sftp put command

compiling:

how to get from example.s file to a command you can run and test

first way:

```
as -o example.o example.s
```

```
ld -o example example.o
```

doesn't always work, thus the second way (which also doesn't always work, hence first  
way)

second way:

```
gcc example.s -o example
```

I think you need to compile the second way (gcc) if using c++ library commands like  
scanf and printf. meaning the project should be compiled the second way.

running:

```
./example
```

getting ARM code from c file:

```
gcc example.c -S -o examplesource
```

What I've gathered from assignment 2 is that you can't rearrange the L# stuff and .LC# stuff, but you can rename them to normal words.