

Lab 1 Report

For this lab, I'm using the **VIM** editor.

- 1) I was able to copy the twelve lines from the beginning of the simple.c file by first entering command mode, which was reached by hitting "Escape" after being in insert mode. Afterwards, I typed "12yy" which is the command to yank 12 lines from the current location in the file. Next, I created a.c by typing:

```
vim a.c
```

With this file created, I then entered command mode once again, and hit "p" in order to paste the lines into the file. I repeated this for b.c and c.c in order to achieve the desired result.

- 2) In order to open two different files on the same screen with vim, I first opened a file on the command line, with

```
vim simple.c
```

Next, I entered command mode and typed "Ctrl + W", then "v" to split the screen vertically. I am now able to edit both files, and I can switch between them by typing "Ctrl + W", and then "w" to swap windows.

- 3) This can be easily accomplished with ctags. In order to initialize the tags, I typed:

```
ctags -R
```

Once this was created, I entered vim after putting my cursor over the desired method for which I wanted to go to the definition, I typed "Ctrl + J". After reviewing the definition of the method, I was able to return to where I left by typing "Ctrl + t". After I returned, I could simply pick back up where I left off.

- 4) This is doable by using the search and replace functionality of vim. I ended up using the command

```
:%s /\s\st+
```

This command searches the whole file, searches for white space, and the \s+ component is responsible for selecting multiple occurrences. After running the command, all the leading whitespace in the entire file is eliminated.

- 5) I was able to find and replace the strings "Bill Self" with "basketball genius Bill Self" by typing the following command:

```
:%s /Bill Self/basketball genius Bill Self/g
```

This command parses the whole file because I used the "%" modifier, and then checks multiple occurrences per line.

Next, I typed

```
:set textwidth=80
```

Then, I entered "gqG" in order to format the entire file.