Java
getting started

Installation

A development environment has been made available to you via remote login. The environment is a headless, command-line interface that runs GNU/Linux. Your remote development environment will run Oracle's implementation of the Java platform: *version 8, update 71*. You may do all of your development remotely or, if you're not comfortable with a command-line interface, you may do your development locally and upload your source code.

You can download the *Java Development Kit* (JDK) through Oracle's website and then follow the installation guide. If you decide to work on your machine and upload your code, it is recommended you download **Java SE Development Kit 8u71**. As mentioned previously, this is what will be running on your remote development environment and hence, what will be used while testing your assignments.

Integrated Development Environments (IDE)

You may use IDE's, if you wish; however, all assignments will be submitted electronically via the class webserver. This means that you should probably be somewhat comfortable with a command line interface so that you can test your code within the context of the webserver.

notnotbc.org

You will be assigned a username and password in order to login to your remote environment via ssh protocol. Usernames will be your first name, followed by a period, followed by the first letter of your last name. Passwords will initially be set to your PID; however, you will be required to change them upon your first login.

Microsoft Windows users can download a very lightweight ssh client called **PuTTY**. The interface will allow you to specify a hostname, a protocol, and a port number. In our case:

    The hostname is **notnotbc.org**
    The protocol is **ssh**
    The port number is **3120**

Upon establishing a connection, you will be prompted for your username and password.

Mac OS X users have a built in terminal application. Through the terminal you may execute a command to establish an ssh connection with a remote server. The following command will establish such a connection with the class server:

```
ssh -p 3120 username@notnotbc.org
```

Upon establishing a connection, you will be prompted for your password.

File Transfer is certainly permitted. As mentioned previously, if you are not comfortable developing in a command line setting you may do your development on your machine and then upload your code to the server. You may do so through the command line, if you are comfortable or via a GUI application called **CyberDuck**.