Prerequisites:

* C Writing and running programs
* Process management
* Windows have WSL

Skills:

S: Basic Shell

B: Basic GNU Utils Commands

D: Reading documentation

P: package management – installing and searching for packages

F: File System management: File system hierarchy, Home directory, users, groups, Hidden files, CRUD files, nano/vim/emacs

Grep and piping

* find a package to convert images to ascii art

SHELL and FS Conventions / Abstractions

AS: PATH variable, Builtins, Environment variables (review)

C: Conventions: Dotfiles, ~ as HOME,

FS: File System Conventions / Abstractions: dotfiles, Hierarchy, Config files, Logs, where to put binaries, using symlinks

* Add program to PATH (either install in /usr/local/bin, add current location to PATH, or create symlink in /usr/local/bin to actual program)
* Locate apt log file
* login command offers a message of the day, change this

Advanced

* Text manipulation (glob, regex)
* Compression
* Networking
* Shell scripts
* Init System (systemd)
* Design a package manager and a Shell

**Basics Information Commands and Documentation (B, D)**

uname, which, man

**Installing Packages**

**Creating Files and Navigation (B, R, F)**

**Installing aptitude and**

**Image manipulation**

1. Install files with curl
2. Find a package to edit images
3. Read the documentation for how to edit

My Favorite Commands!

**Git**

1. Read the manpage, make a basic repository
2. Important part: Finding the

**Basic Networking**

curl. nc, wget, ping, ifconfig

**GREP**

Memcached Challenge

**Understanding the System By Learning How to Create Certain Aspects**

* Package manager
* Shell