In the Morse Code Project, I learned to implement trees and how trees are useful in the real world. With trees, it makes it very easy to convert morse code into readable English text. Of course it’s possible to do this by just matching text to a dictionary, but that’s slower because you need to go through a dictionary. Using trees is a lot faster because you know exactly where the letter is by the morse code.

I had some issues with checking to go left or right when adding and fetching on a tree early on because I had nested if statement with elses without curly brackets. I guess that confused the jvm and gave me a lot of null pointer exceptions. Once I added the curly brackets, it worked as intended. I also had some issues reading text from files at first, because it was cutting off some data when processing, but I was able to fix that by just adding a space in the code from the file.

I had some issues afterwards with JFileChooser due to JOptionPane being crap on Java 8 on Mac. I tried to recreate the getFile method in the test files with JavaFX, but I kept getting some thread errors, so I ended up using the original swing method instead. This still gives issues on my mac, but it works.