

Status report 5:

What was done?

- Made working functions to merge a forest into one Huffman tree
- Made a broken function to generate the codes that should be associated with each character
- Switched from using linked-lists to store the forest, to using vectors to store the forest

What got in the way?

- I chose to use a linked list to hold all the trees, which caused segmentation fault issues and sorting problems when merging trees
- Switching to storing the forest of trees in a vector simplified the code and removed the segfault and sorting problems
- Trying to figure out what is wrong with my recursive code generation function, I might consider rewriting it or approaching it differently, since it only returns clearly wrong patterns of alternating 1s and 0s

What is planned for the following week?

- Fix the code generation issue
- Properly encode the file
- Flatten the Huffman tree
- Write tree and encoded data to file