Systems Programming AE1

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I completed the assessed exercise 1 coursework using the AVL tree implementation. The implementation compiles successfully without warnings or errors in C standard C17 on the university linux remote system. It also has no memory leaks when checked with valgrind.

The implementation for date.c works by creating a date struct with 3 ints for day, month and year.

The implementation for tldlist.c works by creating a normal avl tree, where each node represents a unique top level domain, with the amount of times the tld was present stored in the node too.

The iterator works by creating an array of pointers for each node in the tldlist structure. It stores the index for the current pointer it is on in the iterator struct.