

Lab 4

Crafting a Compiler

8.1. Binary search trees are fast to insert and look up values and are fairly easy to implement. However, depending on the symbols that are inserted, the trees shape could become uneven and slow in some cases. Hash tables have the issue of having to deal with collisions, or two values hashing to the same location. They are faster to lookup and insert than binary search trees though. Trees of hash tables would likely be the most efficient option for symbol tables.