

Student: Sam Plant

ID: 21309892

Data Structures and Algorithms

Critical Reflection

Week 4 – Task B

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**Analysis of tasks**

What went well

Successfully implemented searching the lexicographically largest entry within the tree and retrieving the lowest common ancestor of two user input entries. There are some error filtering concerning the search queries of the two queries wish to find the LCA for, whether the ancestor is within the tree or not.

Encountered difficulties

To find the LCA was the most challenging when working with a stack. The issue encountered was to find the common ancestor within the tree, this required identification of the parents of each entry and in which branching of the tree from the root the two entries reside. This was difficult to implement particularly with larger trees as the distance between two entries could span up to the root + 1 node.

**Difficulty assessment**

**Improvement/Reflection**