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Data Structures and Algorithms

Critical Reflection

Week - Task

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**Analysis of tasks**

What went well

The task was to allow addition of nodes and edges to a node graph. The programme was required to display all edges, all nodes, allow user to add edges between two given nodes, and add nodes to the graph. The addition of nodes and display of these features were simple, whereas adding an edge proved more difficult, however, was overcome.

Error catching was implemented with user input for adding a new node and catching if the new edge is between the two nodes.

Encountered difficulties

I did toy with the idea of removing edges and displaying all associated edges with a node, this was not necessarily hard to implement, however, was not the specification of the task so had to approach adding and displaying the edges in a way that was visual within a selection box. This was difficult initially with sorting out which was the parent of the edge, and which was the subsequent child. After some tampering this was easily fixed, and the output added both parent and child displayed.

**Difficulty assessment**

**Improvement/Reflection**