Proposed Data Structures

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Graphs – This will be the backbone of our project which will be used to link separate cities and locations of interest. A graph is a good choice for this because it is able to determine other nodes adjacent to it with O(1); Graphs also make more sense from a maps point of view with how they layout and their branching order.

Arraylist – This would be used inside the nodes of the graph to contain additional information to be stored about the location. This can then be used for either calculations or to display information back to the user via the GUI.