Doanh Tran Caraballo

Efficiency Review Write -Up for Program 5

1) How well did the data structure selected perform for the assigned application?

The data structure selected was perfect for the assignment since we could connect different cities with short steps. We also implemented classes for the program to keep the data private. Overall, the efficiency was great as well as the design of the whole program.

2) Would a different data structure work better? If so, which one and why…

For this particular assignment, graph is probably the best option. And the reason why is that we could create an array of pointers in which each head pointer has a list.

3) What was efficient about your design and use of the data structure?

The interesting thing about my design was the graph itself. It helped with the run time performance and the optimization of memory.

4) What was not efficient?

I believe everything was efficient based on my current knowledge about graphs.

5) What would you do differently if you had more time to solve the problem

At this point, I will probably implement the breadth search with a queue and the depth search first with stack. Maybe next term we will implement it.