

This project initially was a problem for me as I was over complicating the solution. Initially I had intended to create a graph and to link the vertices together, however upon implementation of the graph I found it difficult to traverse. My original solution was based off of, <https://www.sanfoundry.com/cpp-program-represent-graph-using-linked-list/>, for reference. I will also provide a copy of my old attempt. Instead I referenced, <https://www.geeksforgeeks.org/traveling-salesman-problem-using-branch-and-bound-2/>, to help me find the solution to the problem. The reason for this change was because I was encouraged by the tutors in the engineering tutoring center that Professor Kostas had not intended this project to be very long and tedious, as it is a solved real world problem. My solution will paste all path variations in a text document alongside the most optimal path and weight.

The outputs were put into text file created by the program. There you will find all the paths taken, optimal solution, and the weight of the path.