

This project asks you to find a minimum spanning tree in a graph.

In Spring 2009, the Women's Professional Soccer (WPS) league will start its first season. The initial seven teams are located in:

Bay Area, CA (assume San Jose, CA)

Boston, MA

Chicago, IL

Los Angeles, CA

New Jersey/New York (assume Somerset, NJ)

St. Louis, MO

Washington, DC

- (a) Find the distances between each pair of cities that the team will play in and draw the weighted complete graph with vertices the locations of each of the seven teams and the edges labeled with the distance between the cities.
- (b) Find a minimum spanning tree for your graph and draw it.
- (c) In the minimum spanning tree, find the length of the path from New Jersey/New York to the Bay Area. Compare to the direct distance between the two cities.