

CS 360 100P

Minimum Spanning Trees

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Topics to learn

Please read up on the following subjects:

- Spanning trees
- Prim's algorithm
- Kruskal's algorithm

Tasks to perform

Implement Prim's algorithm for finding a minimum spanning tree in a given weighted, connected, and undirected graph. . Provide a mini-interpreter that can read in a graph, display the graph (using graphviz), and display a minimum spanning tree overlayed on the displayed graph (again using graphviz).

Use your Fibonacci heap as a priority queue.

Other concepts

Be able to describe to your mentor the complexity of each operation in the public interface of your classes using big Oh notation.

