

Project #5

Due Dates: Monday, November 23 at 11:59pm

Submit: eLearning

Late Policy: -10 points per hour late

Instructions: This is an individual assignment. All work should be your own.

Objective:

Work with graphs and Kruskals algorithm for minimum spanning trees.

Overview:

The pseudocode for Kruskals algorithm is given in the textbook to find a minimum spanning tree of a graph. Your program will find the minimum spanning tree among a set of cities in Texas.

Details:

Write a command-line program that uses Kruskal's algorithm to find a minimum spanning tree of a graph. The graph will be provided as a file named `assn9_data.csv`. The data in the file is in the form of an adjacency list.

You must use the author's `DisjSets` class without modifying it. You can either use one of the author's priority queue classes or you can use the `PriorityQueue` class provided in Java.

You should output each edge of your minimum spanning tree as the names of the two cities and the distance between them. You should also print the sum of all of the distances in the tree.

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`Kruskals.java`