CSCI 39575 Project 1 Rubric: Graph Program

Description:

Select any idea or problem we studied in this course or in general graph theory and implement a program for it. It can’t be something simple like creating a graph data structure, it needs to be at least moderately interesting or challenging.

Some ideas:

Implementing two path algorithms and compare the running times (like Dijkstra and A\* Search for instance)

Implementing a simple version of a search engine (think Paige Ranker)

Determine the number of colors needed to color a graph (without one colored node touching another node of the same color)

Using BFS or a different graph search algorithm to show that a graph is symmetric or not

Showing whether a graph is [graphic](https://d3gt.com/unit.html?graphic-sequence#:~:text=A%20sequence%20of%20numbers%20is,sequence%20as%20its%20degree%20sequence.) or not

Rubric:

This project is worth 20 points and will be graded on these criteria:

**Originality** (3 points): your project shouldn’t be something ridiculously simple like implementing BFS, 3 points awarded for any attempt at an interesting topic

**Correctness** (5 points): your code should have no errors

**Solution** (2 points): Your code should implement the idea or solve the problem, 1 point awarded if clear effort made, 2 if the code solves the problem

**Question Set** (10 points): Answer the question set that will be provided after you finish writing your code. The question set will be available on Blackboard.