

PROBLEM STATEMENT:

Create a graph ADT The Graph ADT will consist of a set of vertices's and a set of weighted edges. An enhanced user-friendly version of this program could be used for a variety of applications that include: managing travel routes for sales people with vertices's representing customer locations and edges representing the travel routes between locations with their associated costs. managing computer network configurations with vertices's representing computer sites and edges representing communication inks between computer sites with associated costs.

CODE:

The Network ADT must use an Adjacency List representation for the graph. The included struct and class definitions assume that an array or STL vector is being used for the Graph vertex list, with a linked edge list hanging off each array cell (for each vertex). The graph must be templated and include data attributes and member functions from the enclosed file ( network\_specs.txt ). These members functions must be implemented to the specs  
Supply a client program that demonstrates that your Graph ADT class works correctly for both an undirected graph and a directed graph. It should be menu driven

DELIVERABLES:

**18 March 2021 8:00am**

- A "Status Report" emailed to [streller@ecc.edu](mailto:streller@ecc.edu) with the subject cs232\_P2\_statusReport
1. This **must be** a pdf.
  2. the content will be a description of what you have completed as of 18 March 2021. (even if you haven't begun the project, you must state so and still submit the report)
  3. this report is, of course, part of the project grade.

**26 March 2021 6:00am**

A zipped file, called CS23\_P2\_yourLastName, submitted to blackboard CS232\_P2\_ANS

1. documented source code
2. user manual.
3. Programmer manual(s) (one for each class also)
4. release version executable

**As usual, any other file(s) submitted will receive a 5 point deduction for each file.**