CSE 211 - Data Structures

Labwork 4

Write a C++ class which implements an undirected graph using matrix representation. The class should have the following features:

1. A constructor which takes the number of vertices, and initializes the matrix. The matrix can be stored in any structure you want.

2. An insert function which modifies the matrix to add a new edge between the vertices provided as parameter.

3. A function which prints the vertices visited using debth-first traversal. Starting vertex should be provided as a parameter. Use an STL queue structure. When traversing, your function should choose the next smaller vertex. Also you should be careful about printing the visited vertices once.