

## CS 330 - Graph Traversal Problems

Download and import the Graph project into Eclipse.

1. Draw the graph in the input file `tinyG.txt` and determine the order that vertices will be visited using *dfs* starting at vertex 0. Verify your result by running the code.
2. Complete the method `connectedComponent` which should print the vertices that are contained in each of the connected components of the graph. You will want to use *dfs* to do so. Test your code on `tinyG.txt`
3. Make a small modification to the code so that the graphs now have directed rather than undirected edges. Then complete the code for determining if a graph contains a cycle using a modified *dfs*. Test your code on `graph1.txt`, `graph2.txt`, and `graph3.txt`.