In-class Practice 8 (due 2020/3/19 in class)

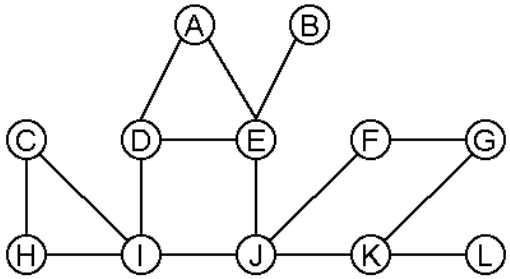
1. Finish graph.cpp by implementing the three functions: (1) `cut_vertices`, (2) `cut_edges`, and (3) `biconnected_components` in finding the cut vertices, cut edges, and biconnected components in the given graph. Write down the output below:

Cut vertices:

Cut edges:

Biconnected components:

2. Modify the adjacent list of the graph in the program to the following graph, and run your program to find the (1) cut vertices, (2) cut edges, and (3) biconnected components.



Cut vertices:

Cut edges:

Biconnected components:

3. Finish the spfa.cpp by implementing the two functions, `BellmanFord` and `SPFA`, to find the shortest paths to every vertex in two graphs (graph1.txt and graph2.txt), starting from vertex 0. Report the following:

	BellmanFord	SPFA
graph1.txt runtime		
graph2.txt runtime		

Name: uid: