Assignment 3

Due on 08/11 – 16, 2017

Project instructions:

1. Consider the graph shown on the first page, which is a directed graph.

   a. Draw the component graph.
   b. Find the flow in the component graph.
   c. Find the minimal flow in the component graph.
   d. Find the strong components of the graph.
   e. Find the weak components of the graph.

2. Consider the graph shown on the second page, which is an undirected graph.

   a. Draw the connected component graph.
   b. Find the flow in the connected component graph.
   c. Find the minimal flow in the connected component graph.
   d. Find the strong components of the graph.
   e. Find the weak components of the graph.

3. Consider the graph shown on the third page, which is a directed graph.

   a. Draw the component graph.
   b. Find the flow in the component graph.
   c. Find the minimal flow in the component graph.
   d. Find the strong components of the graph.
   e. Find the weak components of the graph.

4. Consider the graph shown on the fourth page, which is an undirected graph.

   a. Draw the connected component graph.
   b. Find the flow in the connected component graph.
   c. Find the minimal flow in the connected component graph.
   d. Find the strong components of the graph.
   e. Find the weak components of the graph.

5. Consider the graph shown on the fifth page, which is a directed graph.

   a. Draw the component graph.
   b. Find the flow in the component graph.
   c. Find the minimal flow in the component graph.
   d. Find the strong components of the graph.
   e. Find the weak components of the graph.