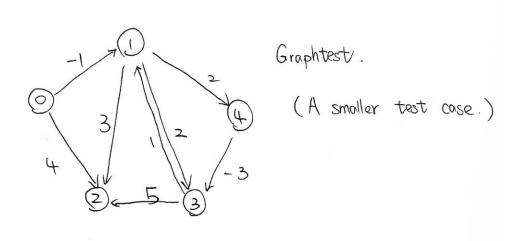
Assignment 5

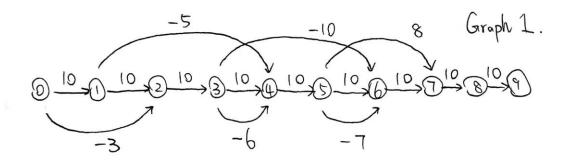
Course: CS 5343 Algorithm Analysis and Data Structures		Instructor: Prof. Neeraj Gupta	
Name: Yinglue Chen	NetID: yxc180006		Email: yxc180006@utdallas.edu

The method of my version of Bellman-Ford Algorithm is written as "public static List bellmanFordAlgorithm(int[][] graph, int startNode){}", in which "graph" means the adjacency matrix representing the graph, and startNode representing the starting node in this graph.

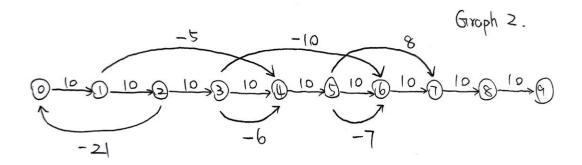
Before the actual graph I'm working on, I have a small test case to see if my program works, and it looks like this:



As for the graph that has at least 10 vertices and 15 edges, there are two different version. Both of them have negative weight edge, but only one of them has negative cycle.



(Graph 1 has negative weight edges but no negative cycle.)



(Graph 2 has negative weight edges and negative cycle.)

Here is the result after I run my program. (startNode is 0.)

