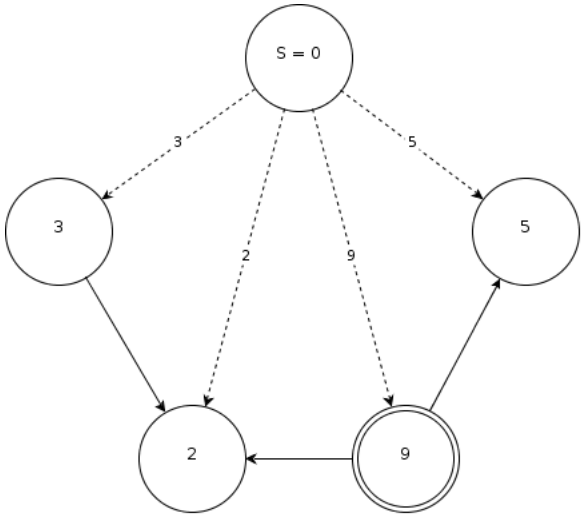
CSCD320 Homework 9, Winter 2012, Eastern Washington University. Cheney, Washington.

Name: Eric Fode **EWU ID:00530214**

Solution for Problem 1

In this case no more then the first node will have to be explored to find the shortest path.

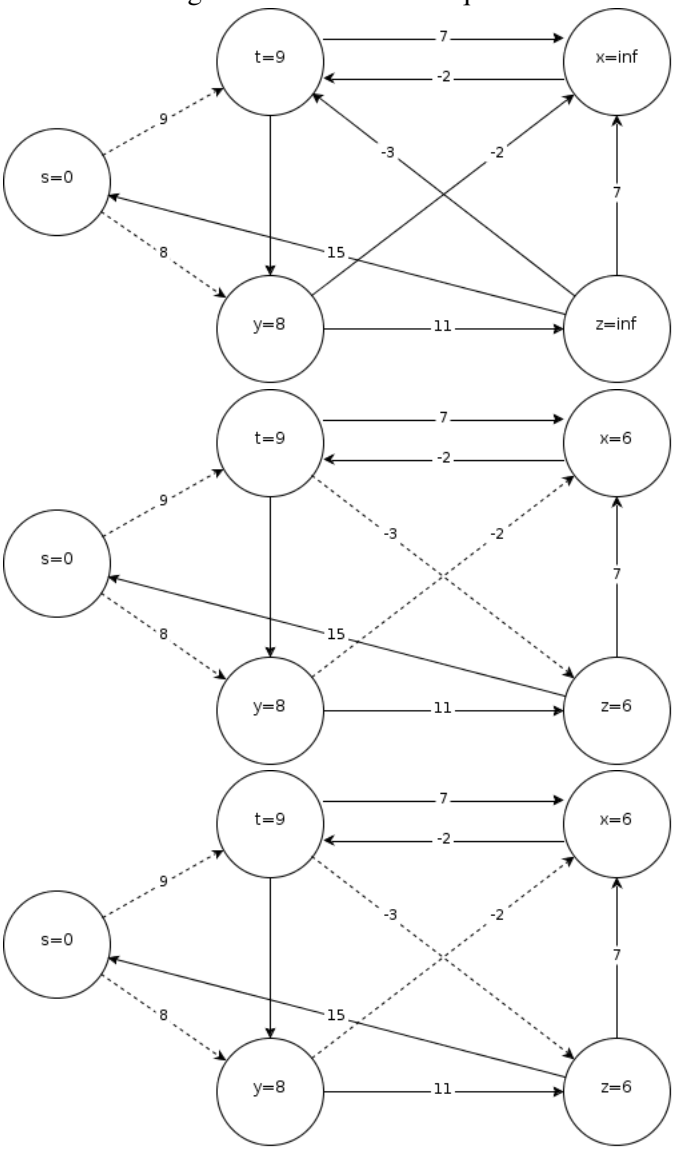


CSCD320 Homework 9, Winter 2012, Eastern Washington University. Cheney, Washington.

Name: Eric Fode **EWU ID:00530214**

Solution for Problem 2

Three sets of edge relaxation will be required to find the optimum paths.



Solution to problem 3

Use Warshall's algorithm.

1. Copy the adjacency matrix into another matrix called path.
2. Find in path every for every vertex the incoming and outgoing edges.
3. For every pair of edges associated with a vertex that is found put a 1 in the path matrix.
4. The transitive closure is trivial to extract from the path matrix.