Assignment #1

ECS 40 - Introduction to Software Development
Winter Quarter, 2009

**Due Date:** Thursday, January 15, 2009

**The Problem**

Below is a map of a subway system for a fictitious city and the routes connecting them.

![Subway Map](image)

Each station is labeled with a letter (A-L), and the lines represent paths between the stations.

A certain traveler, who seems to have an unlimited amount of time, must travel from station A to station L daily, and wishes to know all the possible routes that she can take. Her only restriction is that, on a certain day, she cannot traverse any of the paths (represented by a line in the picture) between two stations more than once.

Find all the possible routes. How many days will it be before she must repeat a route?

**Late Policy**

Assignments are graded on a 50-point basis. A five-point penalty will be assessed for each late day (weekends count as one day). The assignment must be complete.
when turned in, or it will be given a score of zero, and returned to the student. Assignments must be turned in electronically.

The student should check the class policies on the course web site (http://idav.ucdavis.edu/~joy/ecs40) and review how assignments are graded.