The Problem

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

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.

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

Details

This assignment is to be done in C++. Your result should have at least three classes (SubwaySystem, Station, and Track), with implementation and interfaces in separate files. No adjacency matrices here.
**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.