**Description of the simulated environment**

**1. The network of railways.**

The railway network is defined by pairs of stations and distance between each pair.

The distance between stations is an integer number.

The amount of stations and the topology is not limited.

**2. Trains**

There are several trains travelling the railway network.

Train speed is equal to 1.

**3. The routes for trains**

For every train there is a route defined by the sequence of stations.

Every leg between two stations is a single track.

**4. Traffic**

All trains start simultaneously.

At the end of the route the train disappears.

**5. Configuration of the system**

The network is defined in text file(s)

The trains and routes are defined in text files.

**Task**

The task is to write a software program that implements the described behavior.

Program reads configurations files, check for configuration errors, report errors to the log file.

Program starts the simulation. If collision between trains happens the collision event is reported to the log file.

The trains that collide are removed from the simulation.

Any programming language can be used. Object Oriented approach is preferred.