

TIRIAN TRAINS

Tirian Trains operates a local town train system within the Western Woods and an inter-town train system in Narnia. Tirian Trains are always on time. They are never late and are never delayed. Their business operations involve Train Maintenance, Routes and Trip Scheduling, and Ticket Sales.

Train Maintenance

Tirian Trains must keep a record of the maintenance history of each train. All trains operating in the locality of the Western Woods are S-series trains, while inter-town trains are A-series trains.

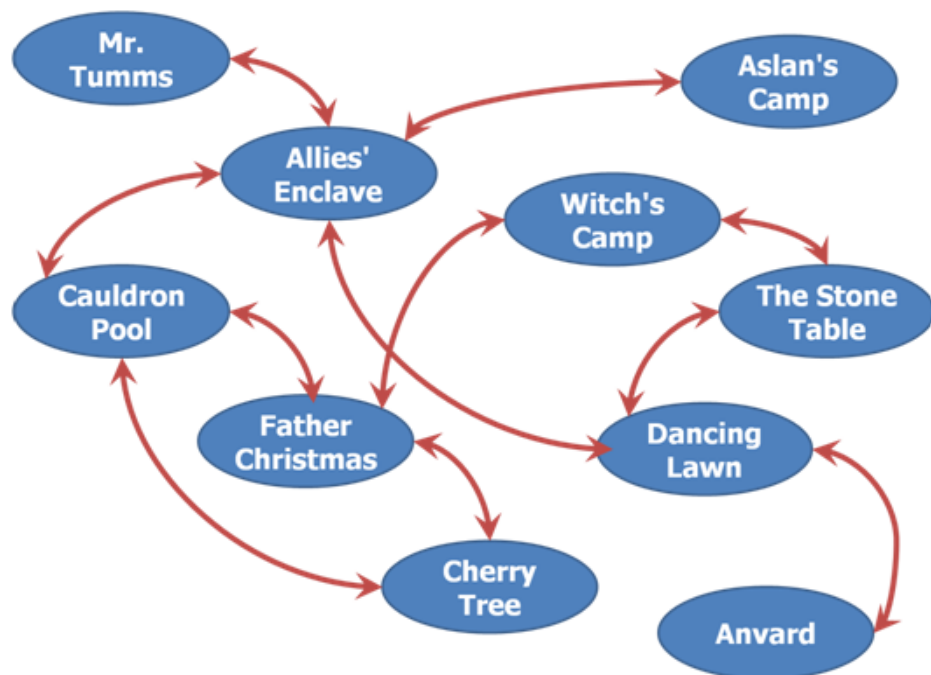
Train Maintenance			
Train ID: 451621		Model: S-393	
Max Speed (kph): 120	No. of Seats: 70	No. of Toilets: 7	
Reclining Seats: Yes	Folding Tables: Yes	Disability Access: Yes	
Luggage Storage: No	Vending Machines: Yes	Food Service: No	
Maintenance History			
Date	Crew in Charge	Tasks	Condition
Aug 01, 2016	B. Ramoh	Cleaning	Excellent
Sep 01, 2016	N. Khitsu	Replacement of brake discs	Very Good
Oct 01, 2016	C. Itson	Complete oil change	Excellent

Routes

The local train system in Western Woods runs in a clockwise direction, servicing four (4) stations in a loop. The travel time from one station to the next is always exactly five (5) minutes. All local town trips cost two (2) Lion coins, regardless of the origin and the destination. Over time, the price may change. In the future, stations may be added to the system.



The inter-town train system connects ten towns across the country, including Allies' Enclave, linking the town of Western Woods to nine (9) other towns. Inter-town routes run through each town station both ways (in and out). Travel time from one town to another is variable. Over time, stops may be added to the system.



Trip Scheduling

Trip schedules change on a daily basis. Passengers may search for trip schedules on the system for a specific origin to other destinations.

TRIP SCHEDULE: December 11, 2016						
Train #	Origin	Destination	Departure	Arrival	Duration	Cost
16176	Allies' Enclave	Cauldron Pool	09:41	11:48	2 hr 07 min	6 Lion coins
53157	Allies' Enclave	Dancing Lawn	12:48	16:48	4 hr 00 min	25 Lion coins

Ticket Sales

A passenger may repeatedly purchase a ticket for a single trip or a combination of trips to reach a specific destination. Tickets may be purchased in advance, if necessary.

TRAIN TICKET						
Customer ID: 7288				Date: Dec 11, 2016		
Last name: Grove		Given Name: Adam		Middle Initial: K		
Birth Date: Jun 01, 1972		Gender: Male		Total Cost: 26 Lion coins		
TRIP ITINERARY						
Train #	Origin	Destination	Departure	Arrival	Duration	Cost
16176	Allies' Enclave	Cauldron Pool	09:41	11:48	2 hr 07 min	6 Lion coins
23813	Cauldron Pool	Cherry Tree	12:00	18:30	8 hr 30 min	20 Lion coins

Note

In designing this system, there must be sufficient data structures to support the generation of reports in the future. For example, for any period of time (day, week, month, or year), Tirian Trains may generate reports on their ticket sales and train maintenance. They may also generate reports for the travel history for a specific passenger at any time.