

PStA Sheet 04 – CrazyStation2

Please take a look at the provided code for your next task “CrazyStation2”.

In this three week exercise, traincars will be transported between different trainstations. Every car has a certain start station and a destination. Trains only drive one route. This route is defined by a station and the Centralstation. All cars have to be transported to the Centralstation first. At the Centralstation all wagons get assigned by priority to the appropriate train to reach their destination. Priority 1 is the highest priority, these cars have to be delivered first. There are different kinds of trains. Trains are distinguished by the number of wagons they can carry. As a result is it possible that cars will be left at the Centralstation if all trains on a specific route have the maximum number of attached cars. After all trains have arrived at their stations, the wagons get unloaded and listed so that it can be checked whether all wagons have arrived at the correct destination. If there are any cars left at the Centralstation another train will be borrowed to transport the remaining Cars to their destination.

What problems can be identified? Solve those problems or insufficiently programmed parts of the software using your knowledge of the lectures “List, Set and Map” and previous.