Report

Problem 1:

1. Promela code can be found in problem1.pml
2. The sequence logs for the specified trace are shown in 1B.txt and msc.ps and can be replicated by opening problem1.pml in ispin and clicking on (Re)Run in the Simulate/Replay tab with the random seed set to 123 (default). The description for this trace is as follows:
   1. Steps 0
3. The predicate moving(S) is true if and only if shuttle S is not currently on a track (i.e. the shuttle is currently stationed.

The predicate noLoad(S) is true if and only if shuttle S has no load (i.e. not carrying any people)

We define the following LTL property: ∀S GF(!moving(S) ∧ noLoad(S))

1. Can you find any additional problems in the system, by verifying other properties? Please state what property you verified and give a clear explanation of any errors you found.

Problem 2:

1. Promela code can be found in problem2.pml
2. Lorem ipsum dolor si amet
3. Can you find any additional problems in the protocol? Please state what property you verified and give clear explanation of any errors you found