1. (15 points.) Repeat HW#2, problem #2(c) using SPNP. That is, write an SPNP program to calculate the system reliability at time 500 hours for the system defined in HW#2, problem #2(c). Show SPNP source code and outputs.

2. (25 points.) Repeat HW#2, problem #3 using SPNP. Show SPNP source code and outputs. (Hint: See case study 2 for a possible SPN model.)

3. (25 points.) Repeat HW#2, problem #4 using SPNP. That is, write an SPNP program to calculate the system throughput of the server subsystem, the population at the server subsystem, and the average response time per client at the server subsystem. Show SPNP source code and outputs.