# Written Assignment 2

For each Event Graph, be sure to carefully define all parameters and state variables. Draw your Event Graphs neatly and clearly.

1. Create an Event Graph model of the multiple server queue, but replace the state variable S, the number of available servers, with a state variable that represents the number of *busy* servers.
2. Create an Event Graph model of the multiple server queue using only one state variable, the number of customers in the system. *Hint*: it is ok for an event to be in the model that doesn’t change any state variable.[[1]](#footnote-1)

1. Consider defining the state variable to be L, the total number of customers in the system. Be careful when defining your edge conditions! [↑](#footnote-ref-1)