1. There are four philosophers sitting around a round table. There are forks on the table, one between each pair of philosophers. The philosophers want to eat spaghetti from a large bowl in the center of the table. Unfortunately the spaghetti is of a particularly slippery type, and a philosopher needs both forks in order to eat it. The philosophers have agreed on the following protocol to obtain the forks: Initially philosophers think about philosophy, when they get hungry they do the following:

   - Take the left fork

   - Take the right fork and start eating

   - Return both forks simultaneously, and repeat from the beginning.

Build a SPIN model for this scenario.

Submission: A single (doc/pdf) file which will contain your code and screenshots of generated outputs (if any). The name of the file will be assignment-number_yourid (e.g., A6_U18XXXX).