5. CMSC 452 LECTURE QUICK FEEDBACK FOR MAR 27, 2014
Here is a non-graded exercise for me to understand your understanding of the class.

Name:

Consider the automaton in Figure 6.

![Automaton](image)

Fig. 6. A simple automaton.

**Exercise 1 (Labeling function).** Assuming that \( AP = \{p\} \), please give the complete labeling function \( L \):

\[
L(0) = \\
L(1) = \\
L(2) = \\
\]

**Exercise 2 (Formula satisfaction).** Does state 0 satisfy \( AF[p] \)?

**Exercise 3 (Formula satisfaction).** Does state 0 satisfy \( AG[p] \)?