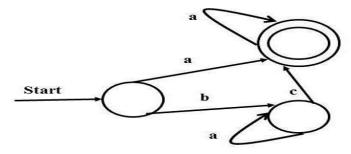
CSC610 Quiz2 2 points Student Name:

2.1 Write the regular expression for the following NFA:



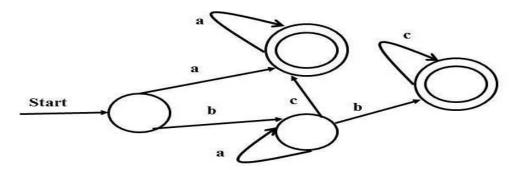
aa*+ba*ca*

2.2 Prove that $L_2 = \{ a*c \} \text{ is a regular language (by providing an automaton for } L_2 \}$.



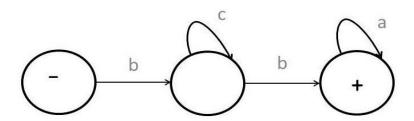
This NFA defines L_2 ; therefore, L_2 is a regular language.

2.3 Write the regular expression for the following NFA:



aa*+ba*ca*+ba*bc*

2.4 Prove that $L_4 = \{ bc*ba* \}$ is regular (by providing an automaton for L_4).



This NFA defines L_4 ; therefore, L_4 is regular.