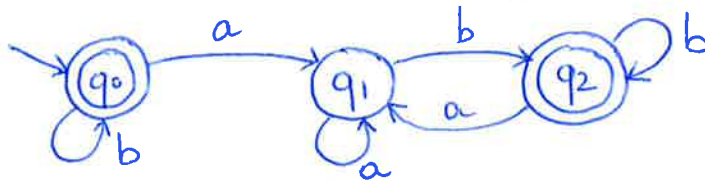


NAME:

Question 1. [5 points] Draw the diagram of the finite automaton for an automated door as we covered it in class on August 27, 2014. and give its formal description.

Question 2. [5 points] Consider the following finite automaton M:



(1) Give the formal definition of M.

(2) Is the string aabbab accepted by M? Justify your answer.