

**2015 Fall COT 4210 Quiz #0**

**Date: 8/27/2015**

**Name:** \_\_\_\_\_

1) Draw a DFA over the alphabet  $\{0, 1\}$  that accepts all strings of length 2 or greater that have different starting and ending characters. For example, the strings 000001111, 01010101 and 1000010 should be accepted by your DFA but 00, 01111110 and 11111101 should not be accepted by your DFA. To get full credit, please clearly denote each of the five components of your DFA: set of states, start state, transition function and set of accept states. (Also, your transitions must indicate that the alphabet is  $\{0, 1\}$ .)