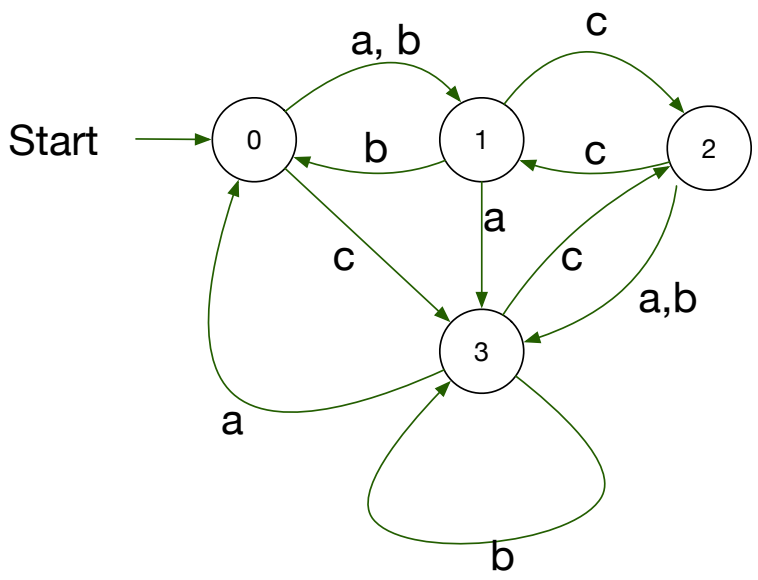
Quiz 1 — January 14, 2019

Please fill in the answers in Quiz 1 on D2L. The quiz is due ***before*** the first class.

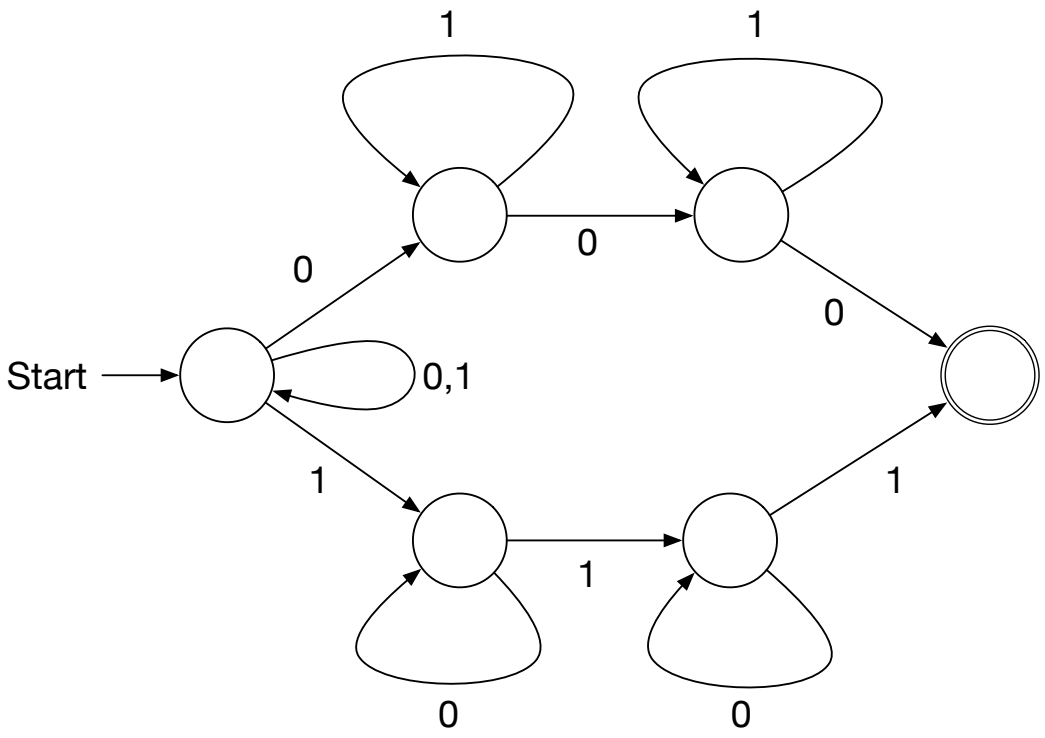


Given the following, deterministic finite automaton, determine

1. $\hat{\delta}(0,aaab)$
2. $\hat{\delta}(1,abcabc)$
3. $\hat{\delta}(2,cacac)$

Given the following, non-deterministic automaton, determine whether the following strings are accepted or not. The initial state is on the left and the only accepting state is on the right.

4. ϵ (the empty string)
5. 00010101
6. 01001
7. 101
8. 11
9. 1001010100010101010010001001000001010101011110101010101111100l101
10. 111


1
1
0
0
0
Start
0,1
1
1
1
0
0