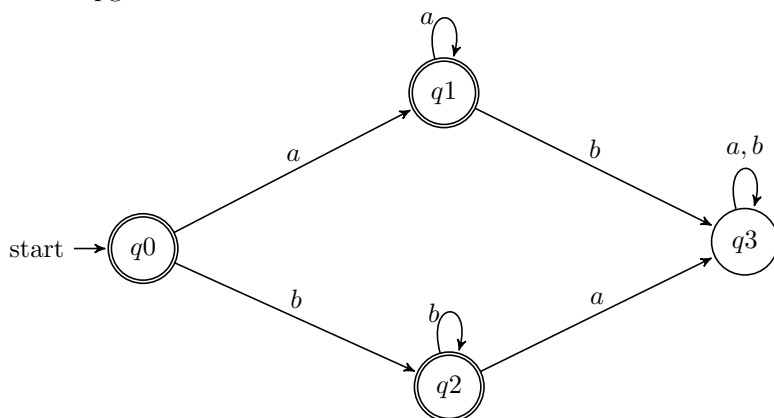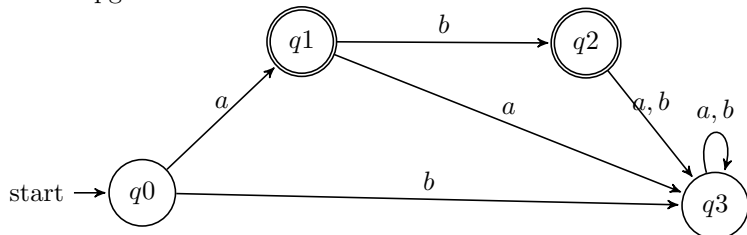NOTE: This pdf is a bunch of tests of constructions used in 105 class. It is a direct conversion of automata from flapjs to latex using the Latex export system.
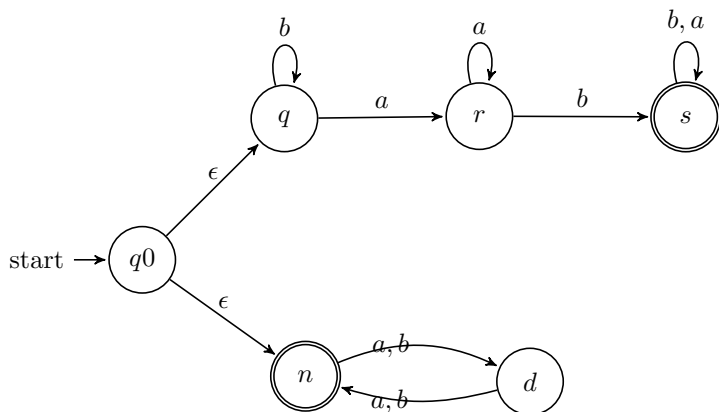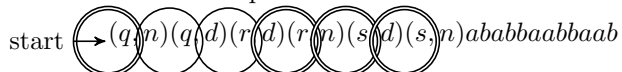
1. Week 1 pg. 12

2. Week 1 pg. 13

3. Week 2 pg. 5
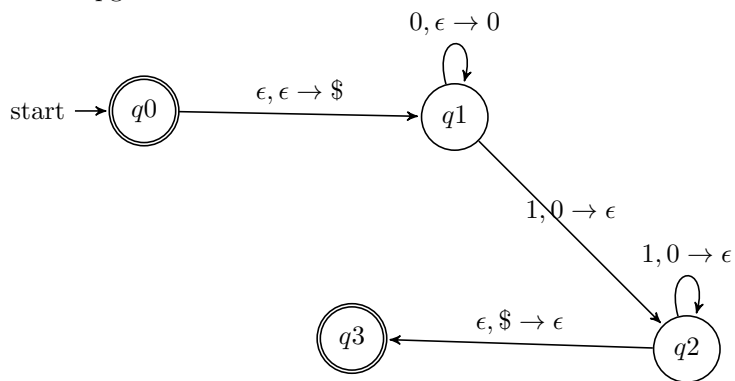   TODO: horizontally bend angles have label on the left

4. Week 2 pg. 6
   TODO: fix more complicated state names
   start $(q, n)(q, d)(r, d)(r, n)(s, d)(s, n)ababbaabbaab$

5. Week 4 pg. 3

start $\rightarrow$ $q0$ $\xrightarrow{\epsilon, \epsilon \rightarrow \$}$ $q1$

$q1$ self loop: $0, \epsilon \rightarrow 0$

$q1 \xrightarrow{1, 0 \rightarrow \epsilon} q2$

$q2$ self loop: $1, 0 \rightarrow \epsilon$

$q2 \xrightarrow{\epsilon, \$ \rightarrow \epsilon} q3$

6. Week 5 pg. 9
   TODO: overlapping labels for self loops

$q_a cc$ self loop: $\square \rightarrow \square, R$

$q_r ej$ self loop: $\square \rightarrow \square, R$

start $\rightarrow$ $q0$

$q0 \xrightarrow{\square \rightarrow \square, R} q_a cc$

$q0 \xrightarrow{0 \rightarrow \square, R} q1$

$q1 \xrightarrow{0 \rightarrow \square, R} q0$

$q1 \xrightarrow{\square \rightarrow \square, R} q_r ej$