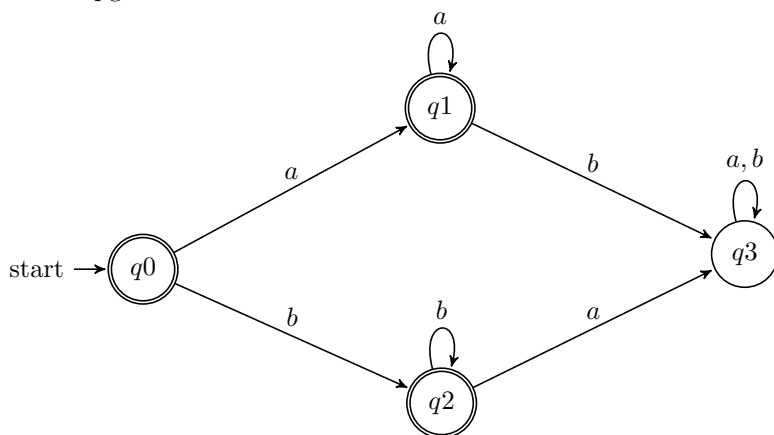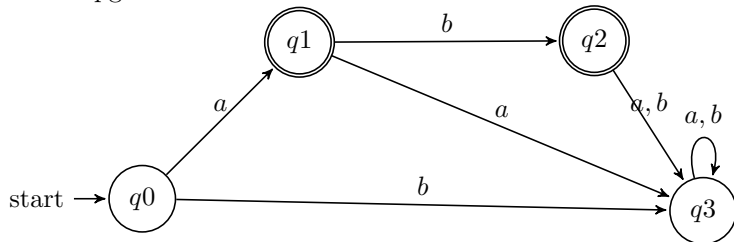NOTE: This pdf is a bunch of tests of constructions used in 105 class. It is a direct conversion of automata from flapjs to latex using the Latex export system.
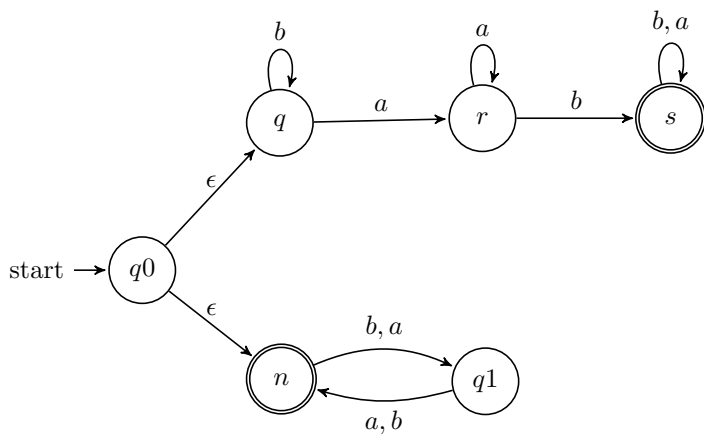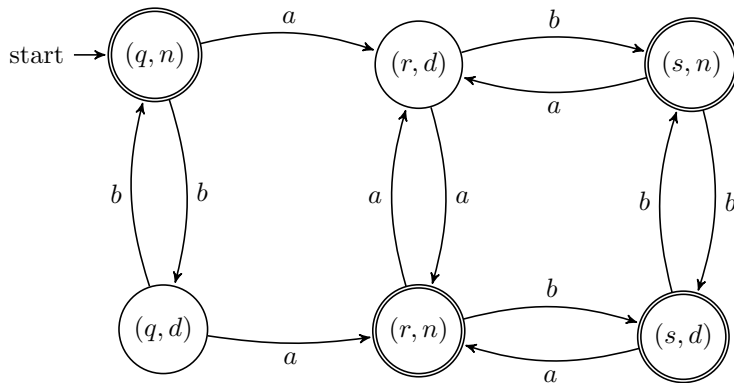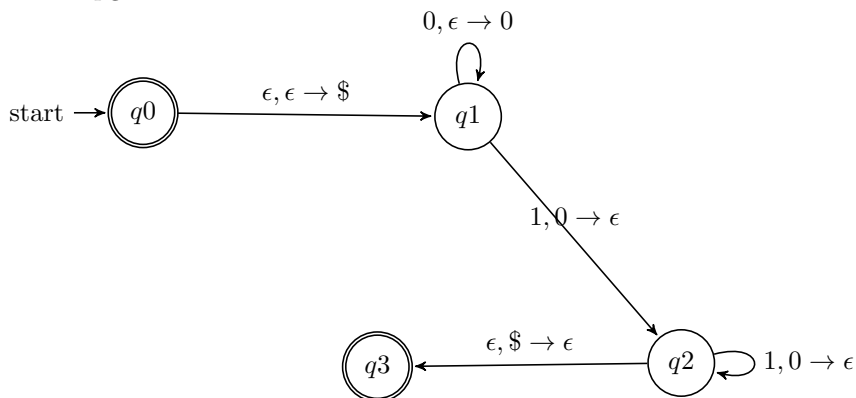
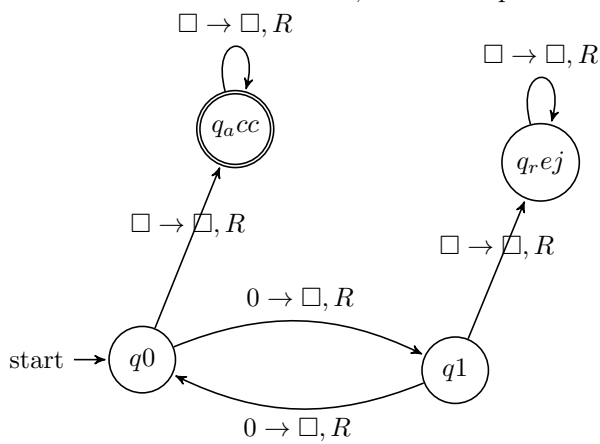1. Week 1 pg. 12

2. Week 1 pg. 13

3. Week 2 pg. 5

4. Week 2 pg. 6

start → (q, n) —a→ (r, d) —b→ (s, n)

(r, d) —a→ (s, n) ... a

(q, n) ⇄ (q, d) with b, b

(r, d) ⇄ (r, n) with a, a

(s, n) ⇄ (s, d) with b, b

(q, d) —a→ (r, n)

(r, n) —b→ (s, d)

(s, d) —a→ (r, n)

5. Week 4 pg. 3

$0, \epsilon \to 0$

start → q0 —$\epsilon, \epsilon \to \$$→ q1

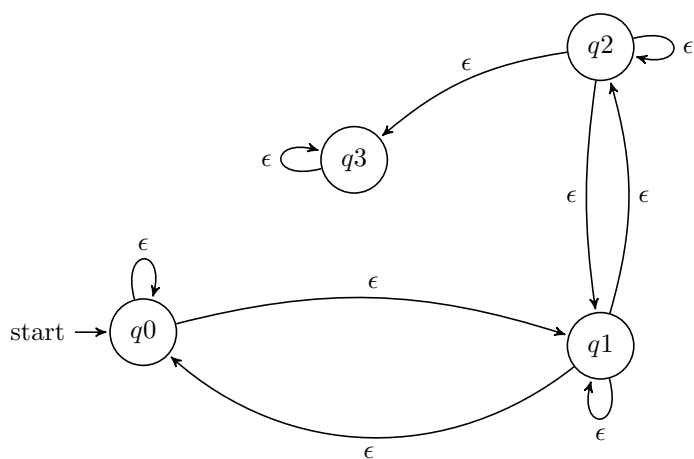q1 —$1, 0 \to \epsilon$→ q2

q2 —$\epsilon, \$ \to \epsilon$→ q3

q2: $1, 0 \to \epsilon$

6. Week 5 pg. 9
TODO: overlapping labels for self loops
TODO: for state names with _, should wrap following in brackets

$\square \to \square, R$

q_acc

$\square \to \square, R$

q_rej

$\square \to \square, R$

$\square \to \square, R$

start → q0 —$0 \to \square, R$→ q1

q1 —$0 \to \square, R$→ q0

7. Weird test of self loop positions

2

8. Single state machine