CS321 - Notes

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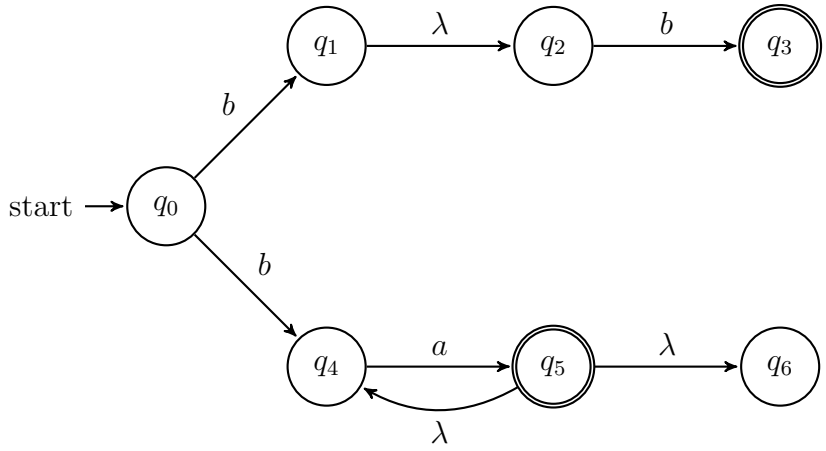
NFAs (Cont.)



Transition Functions

$$\delta^*(q_0, \lambda) = \{q_0\}$$
$$\delta^*(q_1, \lambda) = \{q_1, q_2\}$$
$$\delta^*(q_0, ba) = \{q_4, q_5, q_6\}$$
$$\delta^*(q_1, bbb) = \emptyset$$

Define $L(N)$, N is an NFA.
$L(N) = \{w : w \in \Sigma^*, \delta^*(q_0, w) \cap F \neq \emptyset\}$
There is at least one final state in the set can be written: $\delta^*(q_0, w) \cap F \neq \emptyset$ or $|\delta^*(q_0, w) \cap F| \geq 1$.

$L = \{ab, aba\}^*$

$\lambda \in Lababaab \qquad\qquad \in L$