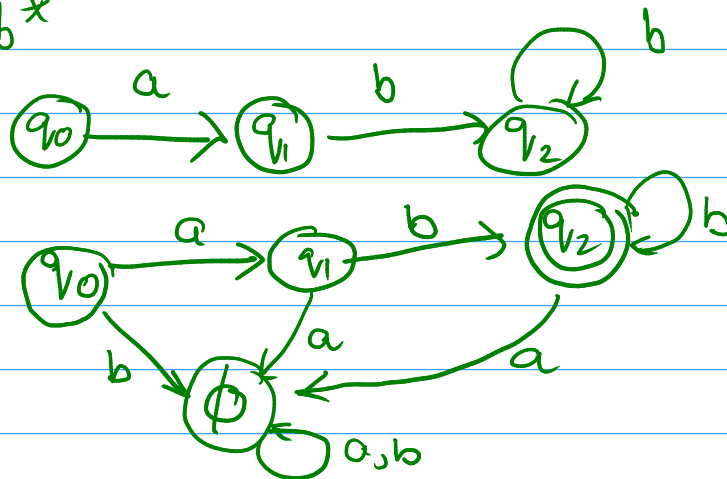
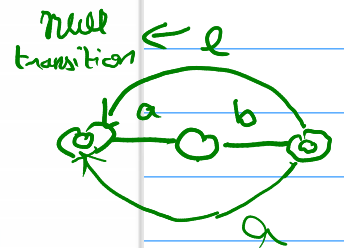
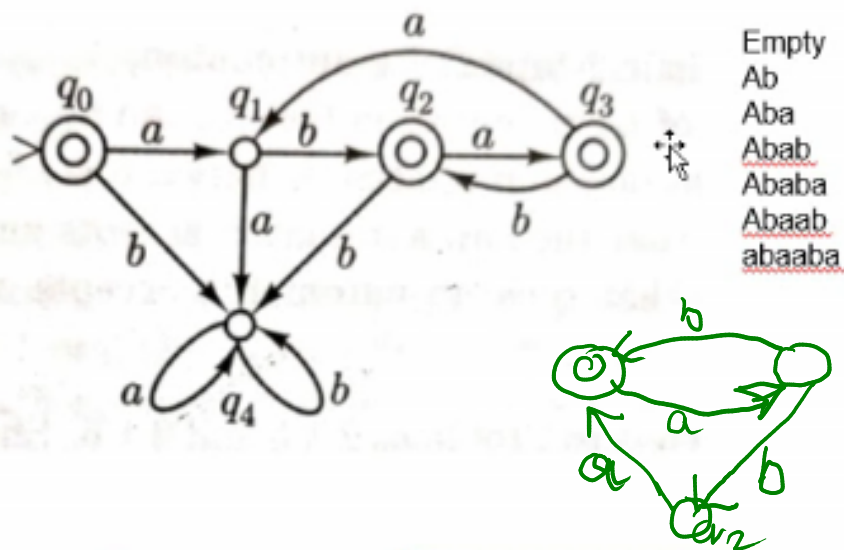


abb^*



A Deterministic Finite Automaton (DFA)

$(ab \cup aba)^*$



$$DFA = M = (K, \Sigma, \delta, s, F)$$

$$\delta: K \times \Sigma \rightarrow K$$

$$NFA = M (K, \Sigma, \Delta, s, F)$$

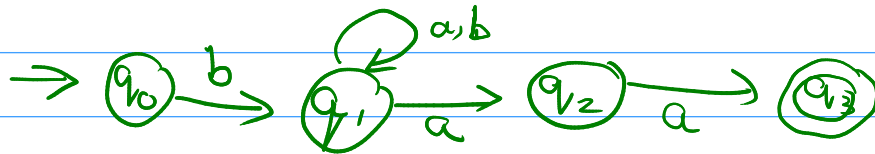
$$\Delta: K \times (\Sigma \cup \{0\}) \rightarrow K$$

Not realistic model for computers

Simple notation generalization, they simplify the model

$$\Sigma = \{a, b\}$$

$$L = \{bwaa \mid w \in \{a, b\}^*\}$$



NFA

$q_1 \rightarrow q_1$ or $q_1 \rightarrow q_2$

