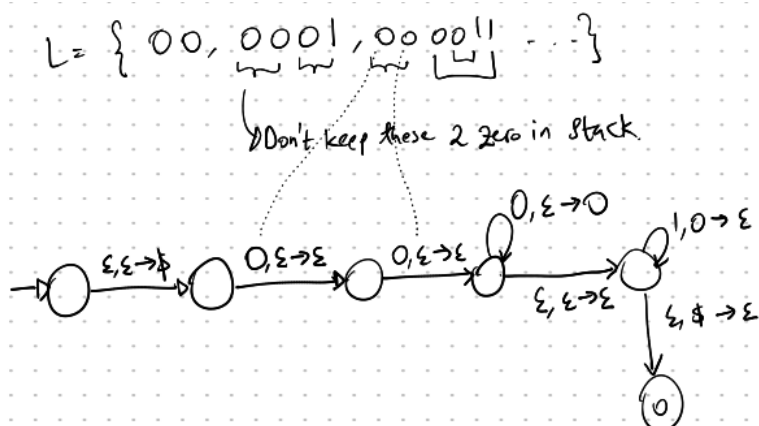
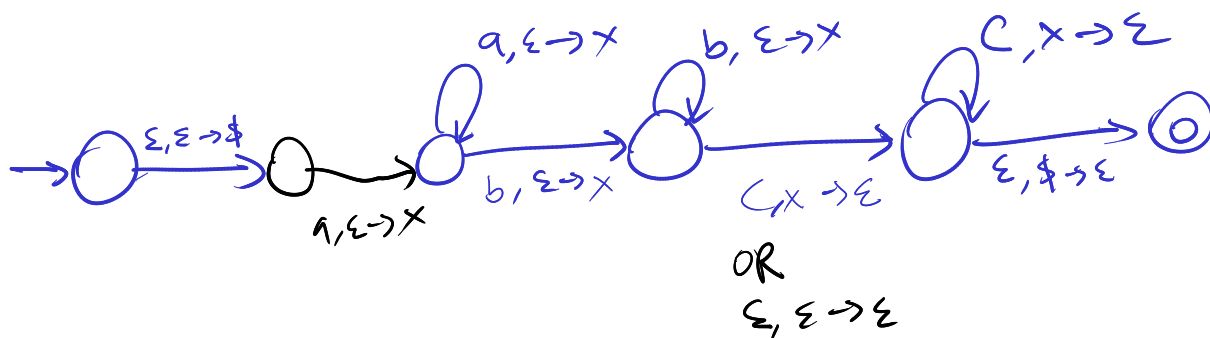


Constructing Pushdown Automata

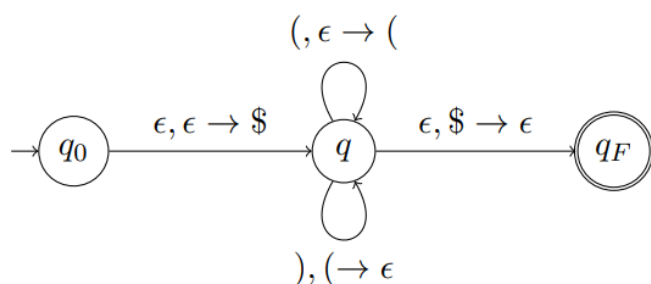
$$L = \{w \in \{0,1\}^* \mid w = 0^{n+2}1^n, n \geq 0\}$$



$$L = \{a^i b^j c^k \mid i, j, k \geq 1, i + j = k\}$$



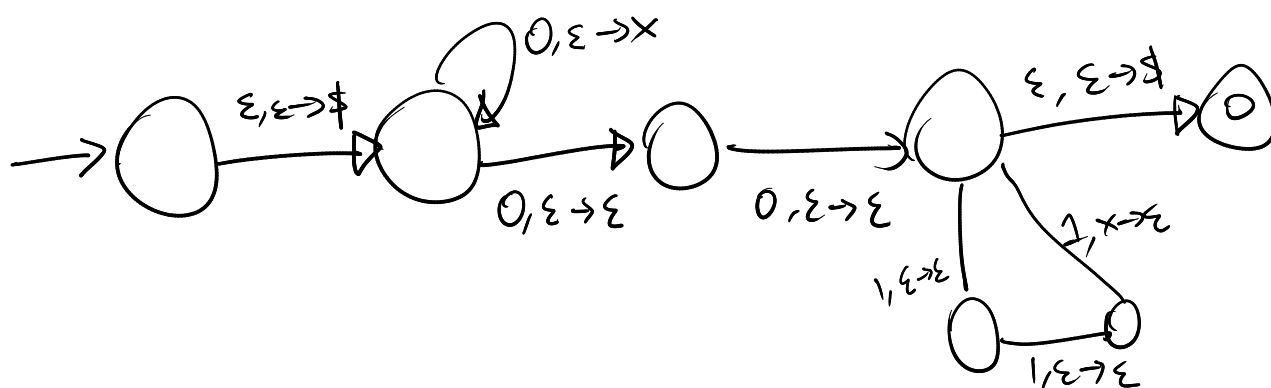
$$L = \{w \in \{ (,) \}^* : w \text{ is a valid parenthesis}\}$$



$$L = \{w \in \{0,1\}^* : 0^{n+2}1^{3n}, \text{ where } n \geq 0\}$$

$$0^{n+2}1^{3n} = 0^n 0^2 1^{3n}$$

$$L = \{00, 000111, 0000111111, \dots\}$$



Matching Parenthesis: PDA execution

