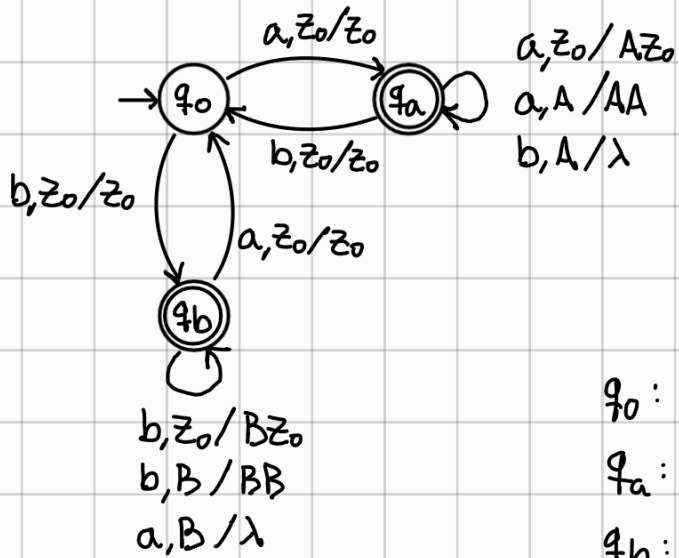


$$\mathcal{L} = \{w : w \in \{a,b\}^* \wedge |w|_a \neq |w|_b\}$$

$$A = \langle \{q_0, q_a, q_b\}, \{a, b\}, \{A, B, Z_0\}, \delta, q_0, Z_0, \{q_a, q_b\} \rangle$$



$$q_0: |w|_a = |w|_b$$

$$q_a: |w|_a > |w|_b$$

$$q_b: |w|_a < |w|_b$$