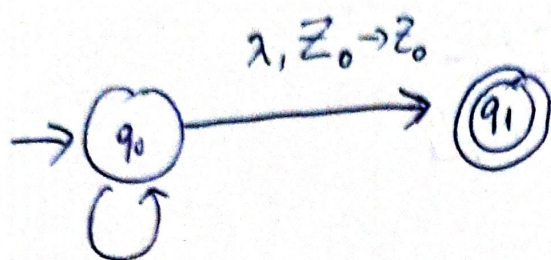


$$L_1 = \{ w 2 w^R \mid w \in \{0,1\}^* \}$$

$$P = \left( \{A, B, C\}; \{0, 1\}; \{z_0, 0, 1\}; \delta; \{A\}; \{z_0\}; \{C\} \right)$$

$$L_3 = \{ w \mid w \in \{0,1\}^* \text{ \& } |w|_0 = |w|_1 \}$$



$$1, Z_0 \rightarrow 1Z_0$$

$$0, Z_0 \rightarrow 0Z_0$$

$$1, 1 \rightarrow 11$$

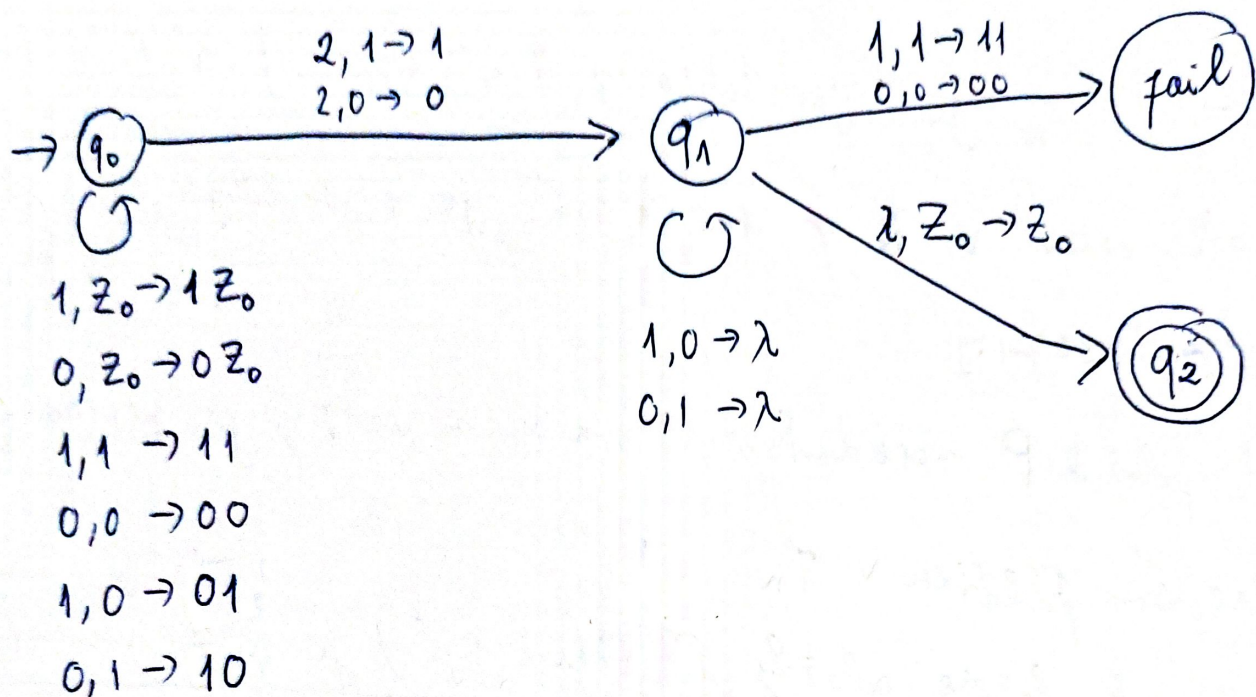
$$0, 0 \rightarrow 00$$

$$1, 0 \rightarrow \lambda$$

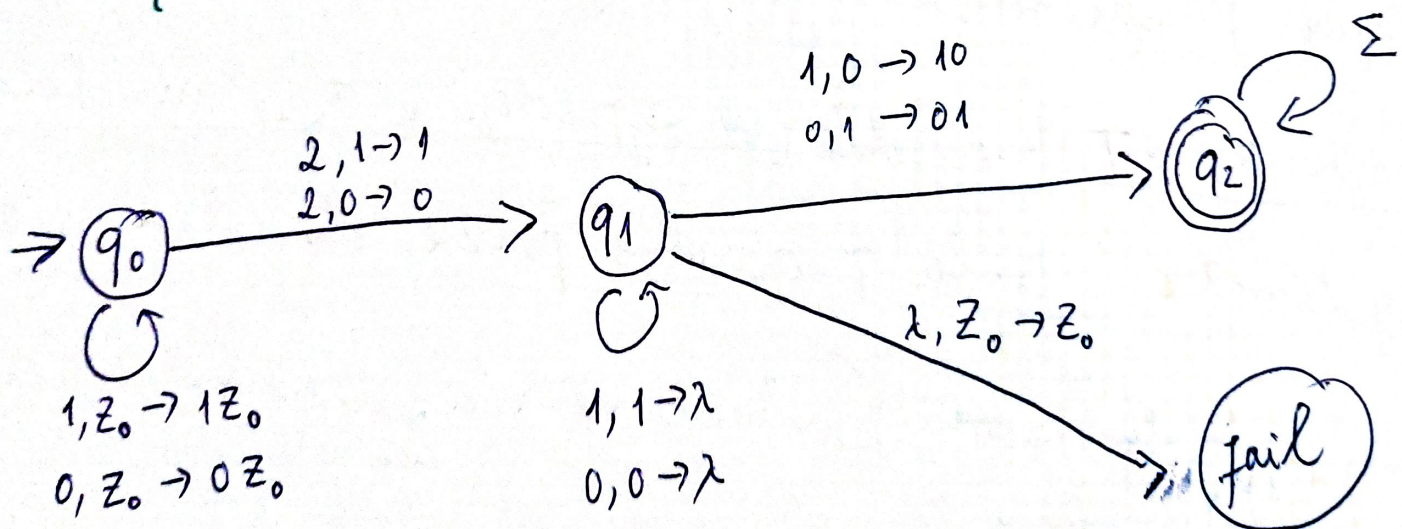
$$0, 1 \rightarrow \lambda$$

$$P = \left( \{q_0, q_1\}; \{0, 1\}; \{Z_0, 0, 1\}; \right. \\ \left. \delta; q_0; Z_0; \{q_1\} \right)$$

$$L_i = \{ u \sqcup v \mid u, v \in \{0,1\}^* \text{ \& } u[i] \neq v[i] \}$$



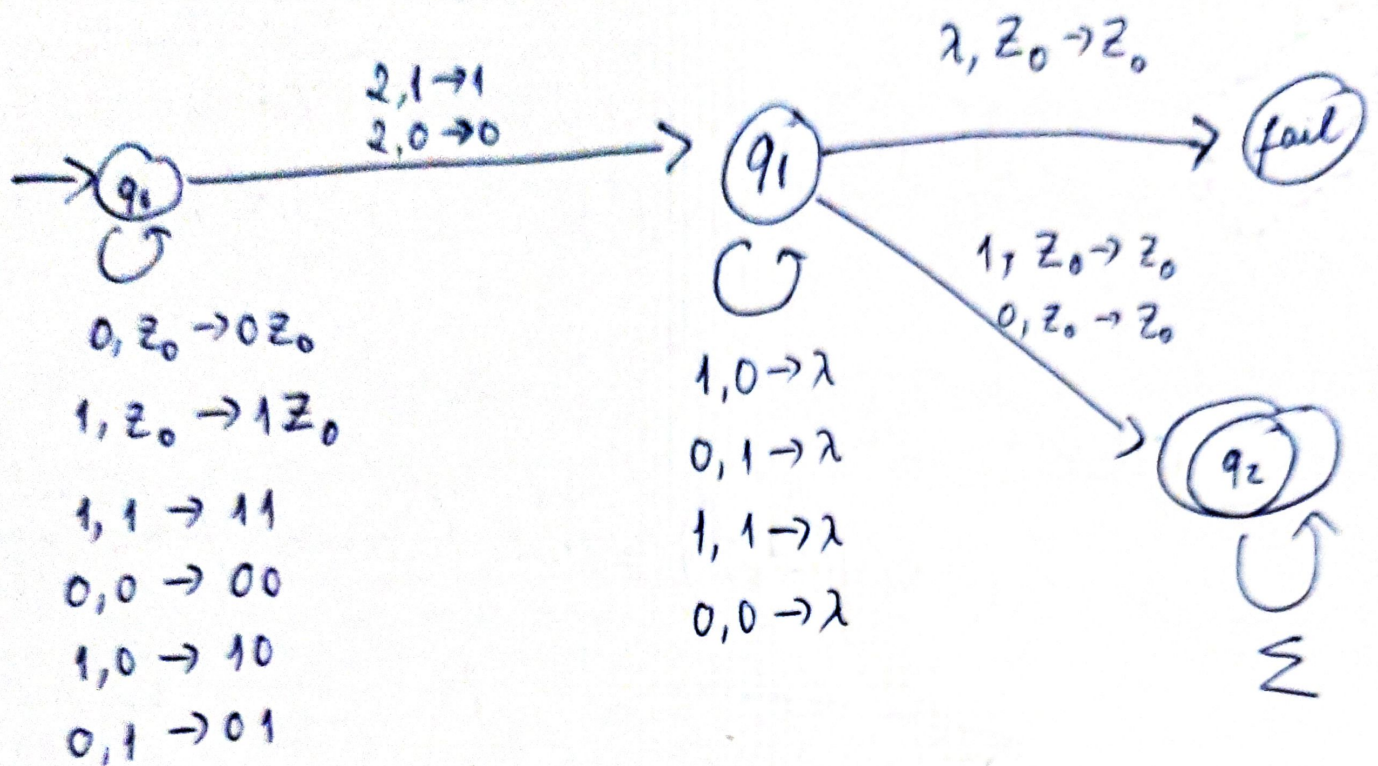
$$L_5 = \{ u \sqcup v^R \mid u, v \in \{0,1\}^* \text{ \& } u \neq v \}$$

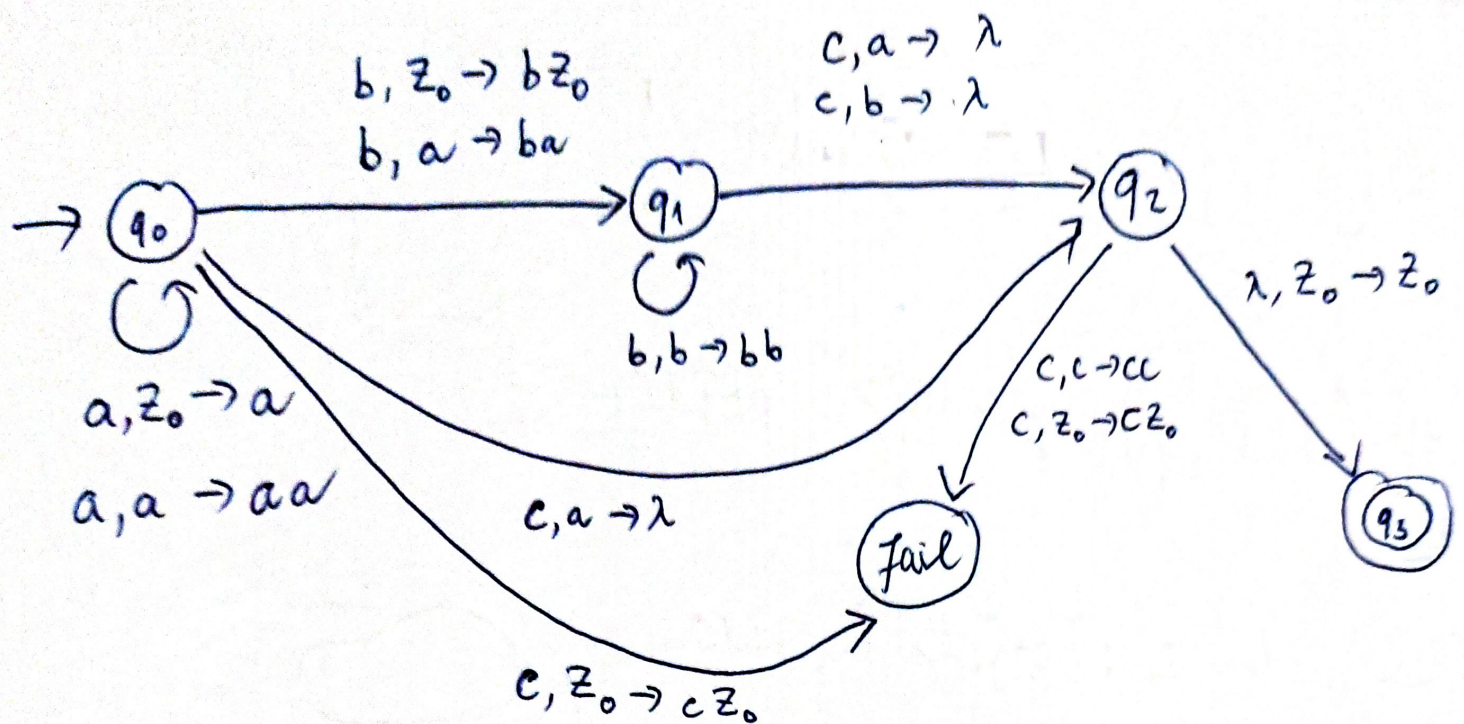


Tady když je  $u \sqcup v^R$  nebo  $u \sqcup v$   
 tak je to jedno ne?  
 Podle mě je stačí aby  $u \neq v$



$$L_4 = \{ u \geq v \mid u, v \in \{0,1\}^* \text{ \& } |u| \neq |v| \}$$





$$L_G = \{ a^i b^j c^{i+j} \mid i, j \in \mathbb{N}_0 \}$$

$$L_7 = \{ a^i b^j c^{i+j} \mid i, j = 0, 1, 2, \dots \}$$

$$a^n b^n c^{n^2} \in L_7$$

Rozdělím slovo na  $uxyzv$

Postupně budu rozebírat:

$$xz = \begin{bmatrix} a^k & a^l \\ a^k & b^l \\ b^k & b^l \\ b^k & c^l \\ c^k & c^l \end{bmatrix}$$

$$k+l \leq n$$