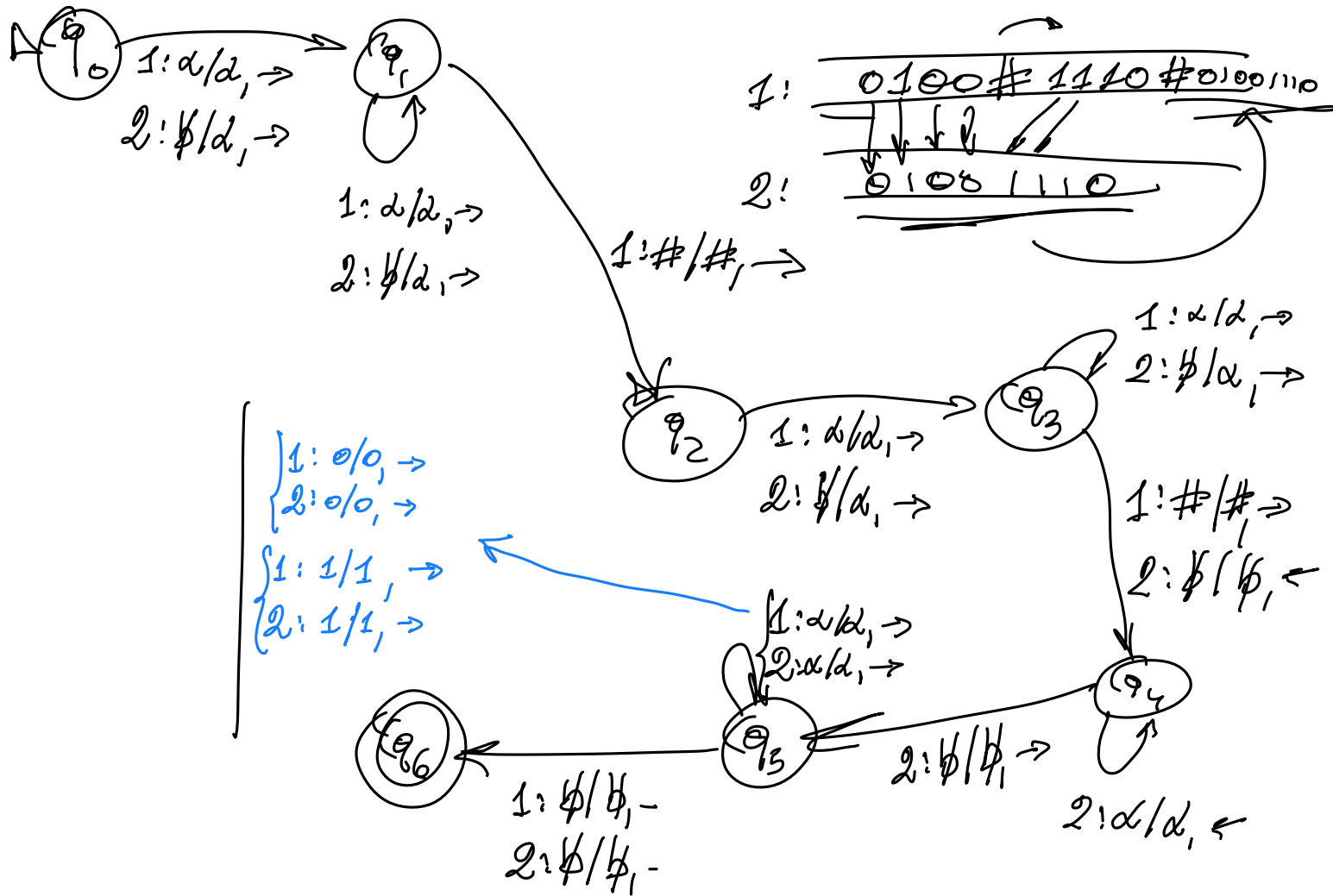


$$L = \{A \# B \# AB \mid A, B \in (0/1)^+\}$$

$$\alpha \in \{0, 1\}$$



$$\left[\begin{array}{l} 1: \beta/\beta, \rightarrow \\ 2: \alpha/d, \rightarrow \end{array} \right] \Rightarrow$$

$$\alpha, \beta \in \{0, 1\}$$

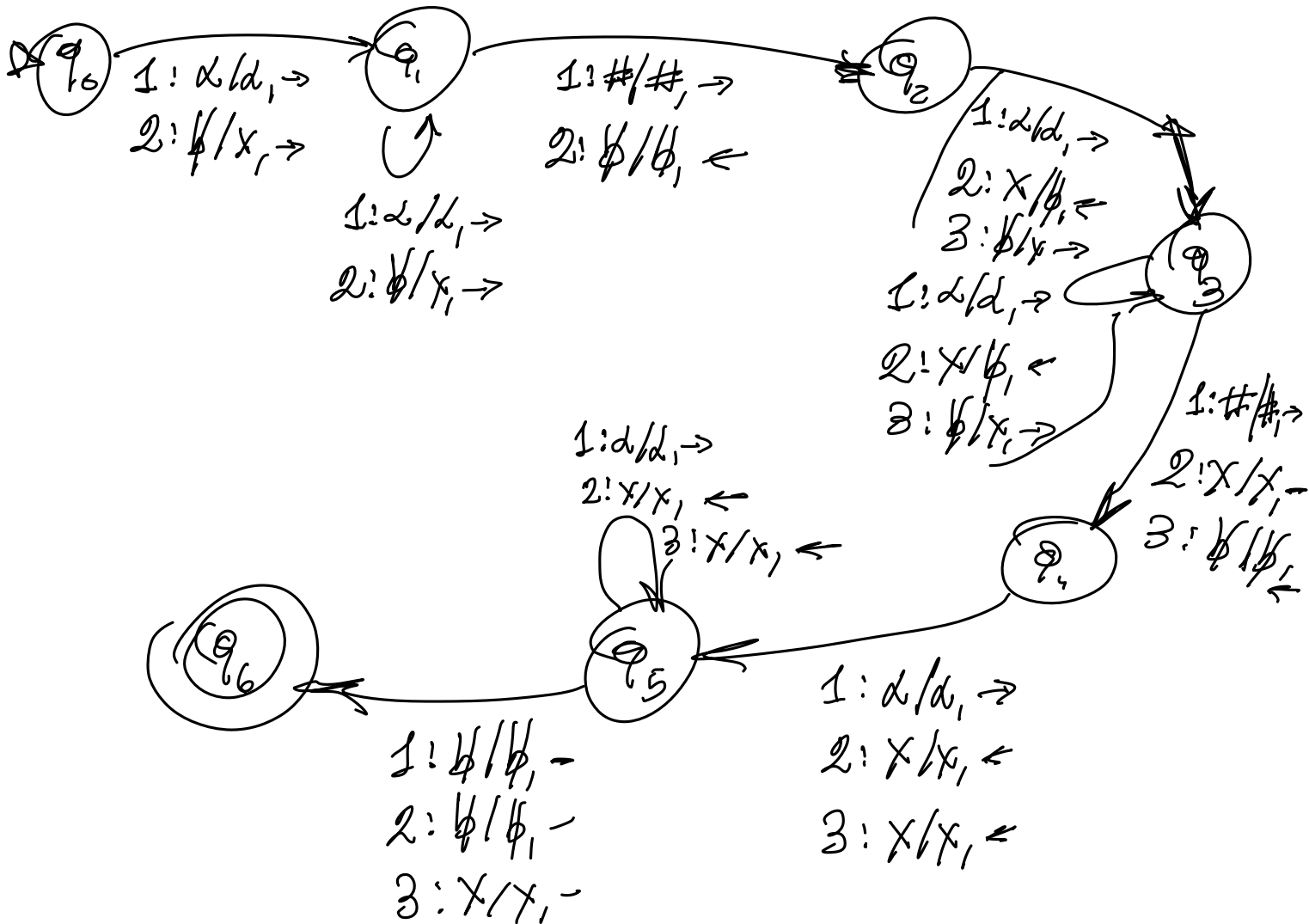
$$\begin{array}{l} 1: 0/0, \rightarrow \\ 2: 0/0, \rightarrow \\ 1: 0/0, \rightarrow \\ 2: 1/1, \rightarrow \\ 1: 1/1, \rightarrow \\ 2: 0/0, \rightarrow \\ 1: 1/1, \rightarrow \\ 2: 1/1, \rightarrow \end{array}$$

$$L = \{ A \# B \# C \mid A, B, C \in \{0,1\}^+, \\ |A| > |B| > |C|, |C| = |A| - |B| \}$$

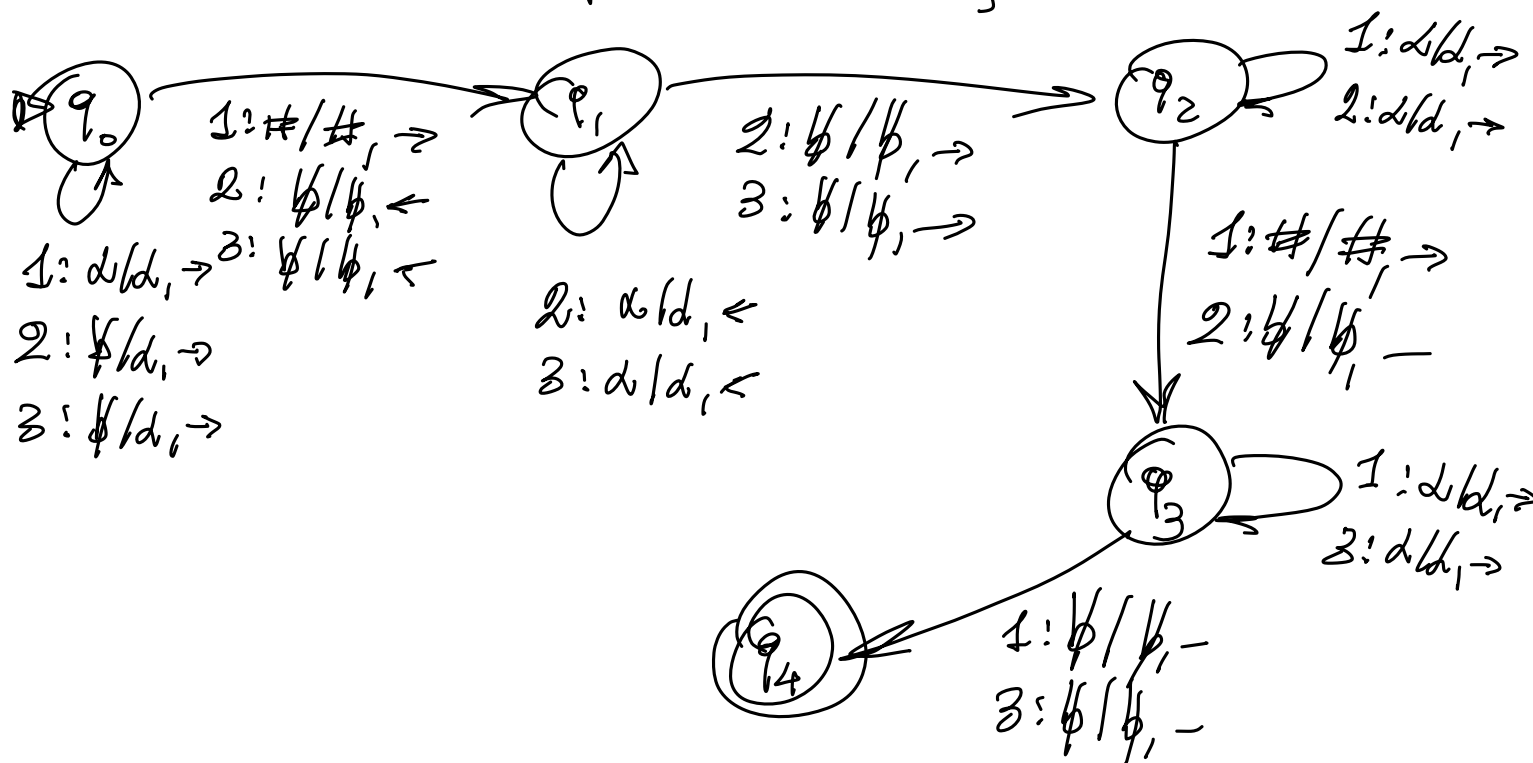
$w \parallel |w|$

$$a \in \{0, 1\}$$

1: 00100 # 011 # 01
 2: xxxxx
 3: xxx

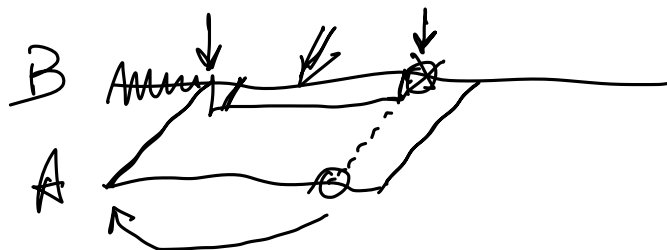


$$L = \{ W \# W \# W \mid W \in (0(1))^* \}$$

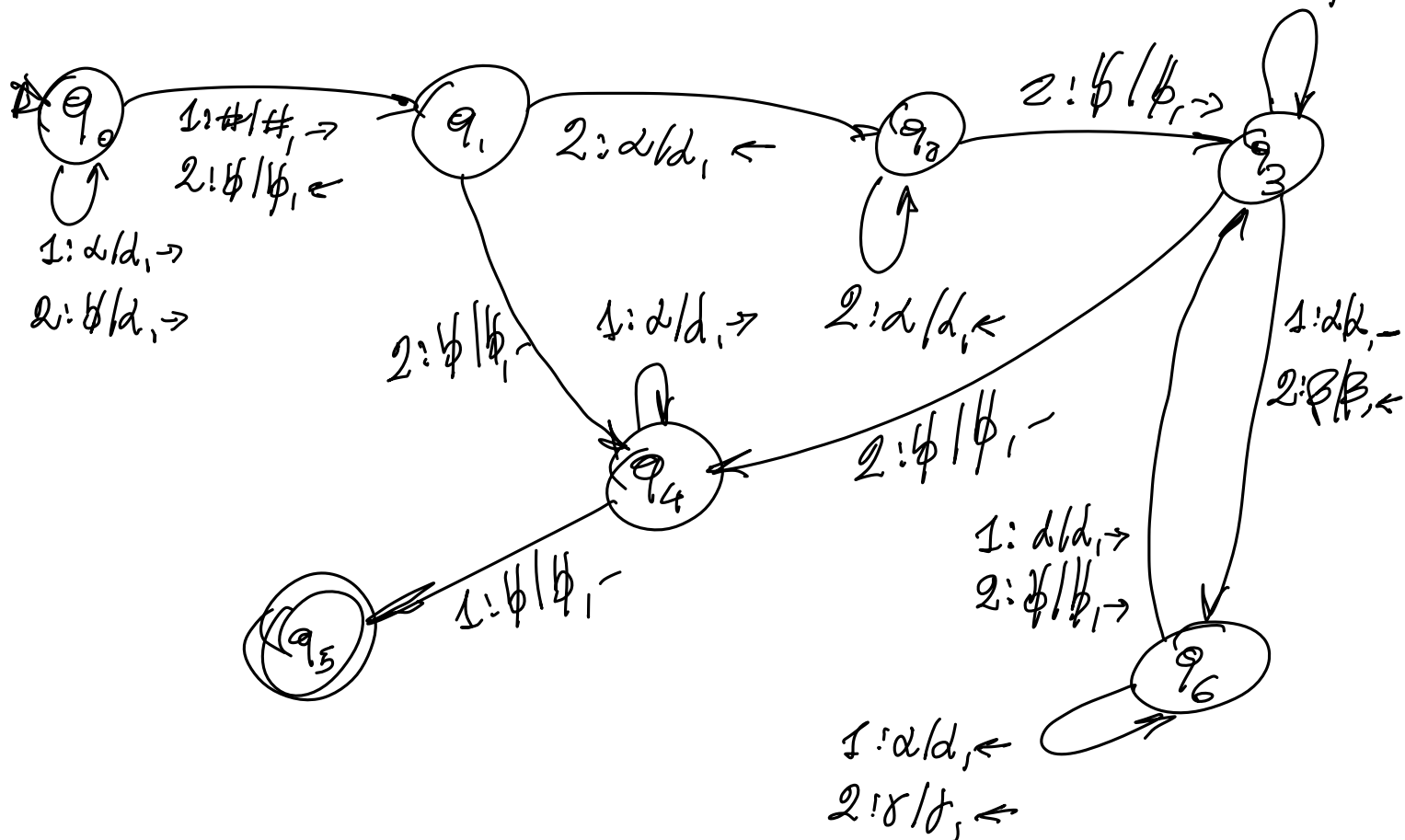


$$L = \{ A \# B \mid A, B \in (a/b)^*, A \subseteq B \}$$

$\underline{a a b \# b b a a b b b a}$



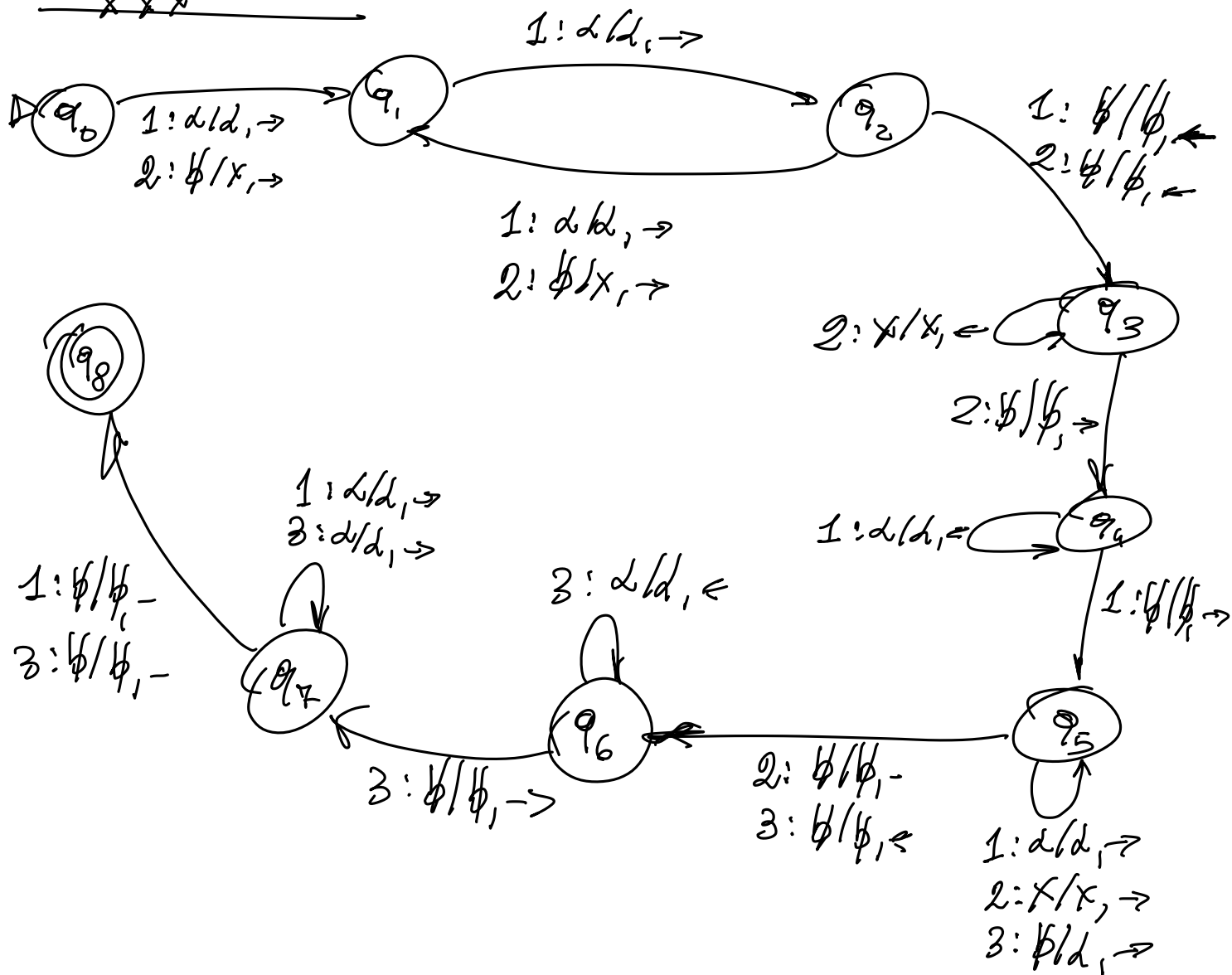
$\gamma, \alpha, \beta \in \{a, b\}$
 $\alpha \neq \beta$



$$L = \{ ww \mid w \in (0/1)^+ \}$$

1: 001001

2: xxx



$$L = \{ w \# A \mid w, A \in (0/1)^+, A = w \text{ OR } A = w^R \}$$