Assignment 17

Automata & Theory of Computation

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1. Construct a Turing machine that accepts the language $L = L(aaaa^*b^*)$.

ㄴ a가 최소 3개이상

$$\delta(q_0, a) = \delta(q_1, a, R)$$

$$\delta(q_1, a) = \delta(q_2, a, R)$$

$$\delta(q_2, a) = \delta(q_3, a, R)$$

a가 3개

$$\delta(q_3, a) = \delta(q_3, a, R) \quad - a^*$$

$$\delta(q_3, b) = \delta(q_4, b, R) \quad - a \rightarrow b 로 이동$$

$$\delta(q_4, b) = \delta(q_4, b, R) \quad - b^*$$

$$\delta(q_4, \square) = \delta(\boxed{q_5}, \square, R) \quad - b^* \rightarrow 종료$$

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$$\delta(q_3, \square) = \delta(q_5, \square, R) \quad - a^* \rightarrow 종료$$