Assignment 17

Automata & Theory of Computation

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

$\delta(q_0, a) = (q_1, a, R)$ → 같이 인식도 가능

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

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

$\delta(q_3, a) = (q_4, a, R)$

$\delta(q_4, b) = (q_4, b, R)$

$\delta(q_3, \square) = (q_5, \square, L$또는$R)$ → $aaaa^*$: b가 나온지 알아야 되기 때문에

$\delta(q_4, \square) = (q_5, \square, L$또는$R)$ → $aaaa^*b^*$