

Assignment 2

Automata & Theory of Computation

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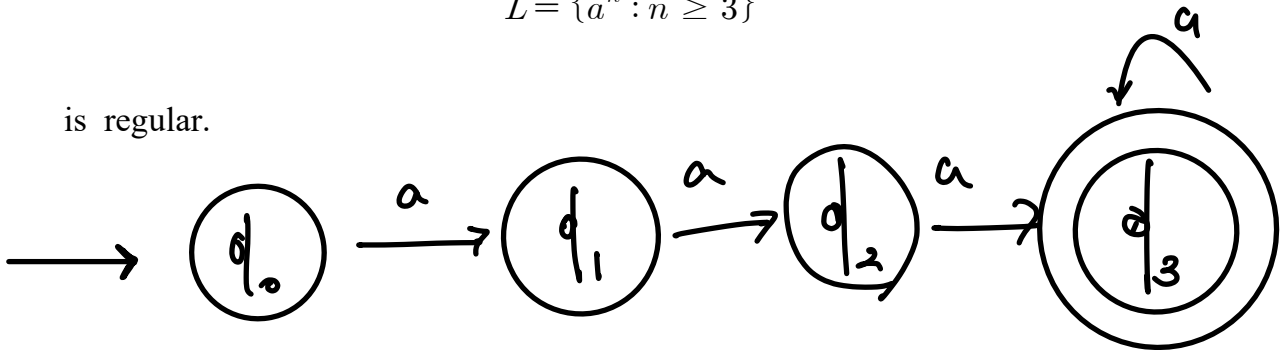
Name: 김지현

1. Show that the language

$a^3 a^* \dots$

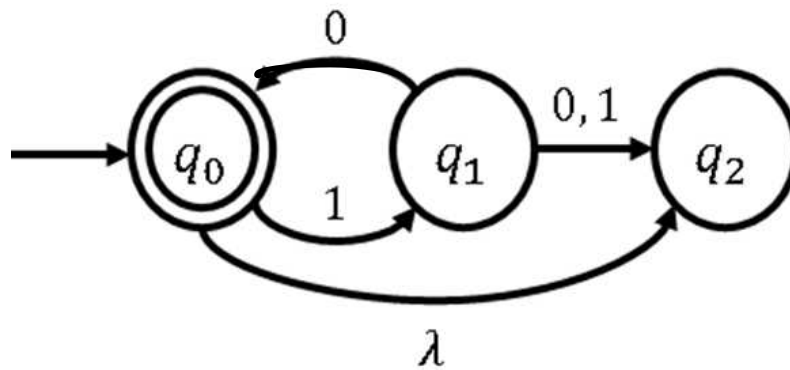
$$L = \{a^n : n \geq 3\}$$

is regular.



DFA that accepts Language L
exists. So, Language L is
regular

2. From the following nfa, find $\delta^*(q_0, 1011)$ and $\delta^*(q_1, 01)$.



(1) $\delta^*(q_0, 1011)$

$\{q_2\}$

(2) $\delta^*(q_1, 01)$

$\{q_1\}$