

Assignment 4

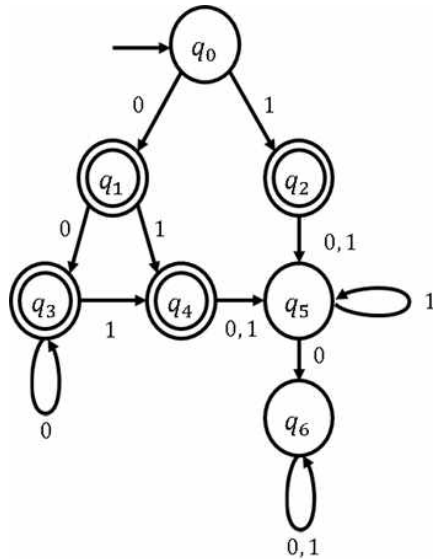
Automata & Theory of Computation

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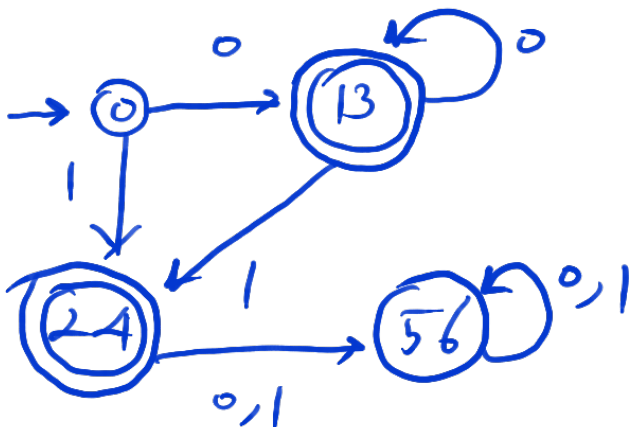
1. Partition the following dfa's state set into indistinguishable state sets, and reduce the following dfa to the minimal dfa.

(1)

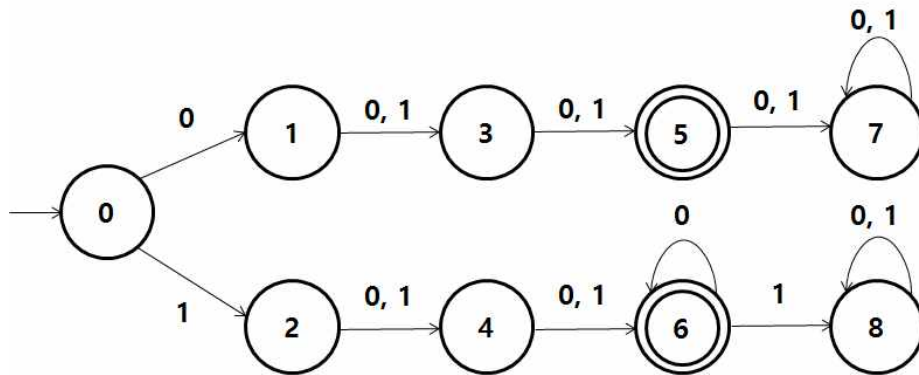


$\{q_0, q_5, q_6\}$, $\{q_1, q_2, q_3, q_4\}$

$\{q_0\}$, $\{q_5, q_6\}$, $\{q_1, q_3\}$, $\{q_2, q_4\}$



(2)



$\{0, 1, 2, 3, 4, 7, 8\}, \{5, 6\}$

$\{0, 1, 2, 7, 8\}, \{3, 4\}, \{5\}, \{6\}$

$\{0, 7, 8\}, \{1, 2\}, \{3, 4\}, \{5\}, \{6\}$

$\{0\}, \{7, 8\}, \{1, 2\}, \{3, 4\}, \{5\}, \{6\}$

$\{0\}, \{7, 8\}, \{1\}, \{2\}, \{3\}, \{4\}, \{5\}, \{6\}$

