4주-목 (9/27) FA

1. DFA $\delta_{DFA}: Q \times \Sigma \to Q$
2. $\delta_{부분}: Q \times \Sigma \to Q \cup \{\phi\}$
3. $\delta_{NFA}: Q \times \Sigma \to 2^Q$.
4. $\delta_{\varepsilon\text{-}NFA}: Q \times (\Sigma \cup \{\varepsilon\}) \to 2^Q$
5. $\delta_{EFA}: Q \times \Sigma^* \to 2^Q$.

DFA

dead state

$\delta'_{NFA}: 2^Q \times \Sigma \to 2^Q$.

$q_{0\text{-}DFA} = \varepsilon^*(\{q_0\}, q)$

$\delta_{DFA}: \delta_{\varepsilon\text{-}NFA} \circ \varepsilon^*$

$(= \varepsilon^*(\delta_{\varepsilon\text{-}NFA}(q, a)))$

$M = (Q, \Sigma, \delta, q_0, F)$ ⇀ DFA.

$R_M \subseteq \Sigma^* \times \Sigma^*$

$x R_M y$, if $\delta^*(q_0, x) = \delta^*(q_0, y)$

R_M is equivalent ⟷ partition

① state $q \in Q$.

② $\{x \mid \delta(q_0, x) = q\}$

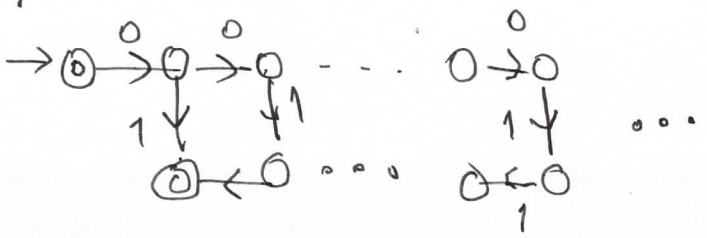
$[x]_{R_M} = \{x \mid x \in \Sigma^*\}$

⇕

$q \in Q$.

Integer ... infinite

$L = \{0^n 1^n \mid n \geq 0\}$



Regular expression (정규식) — 시간12

Finite Automata — 기계. 컴퓨터 프로그램.