10/14(화) 학습, Chap.4 정규언어의 성질

학습 목표) DFA.

TP 작성.

Mealy/Moore Machine

$M_0 = (Q, \Sigma, \Pi, \delta, \lambda, q_0)$ → DFA, FAEL 등등

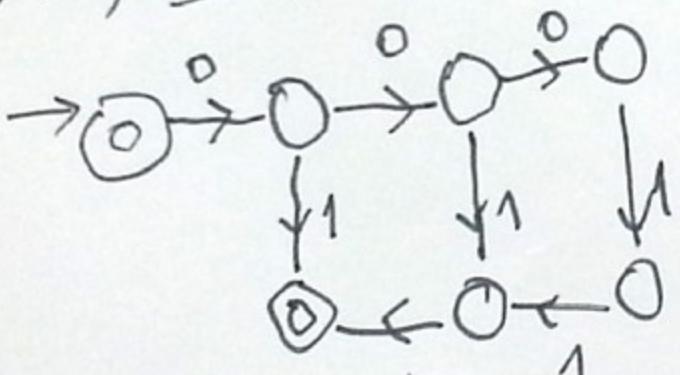
$\lambda : Q \to \Pi$.

$M_e = ($ " $)$

$\lambda_{M_e} : Q \times \Sigma \to \Pi$.

Chap.4 Properties of Regular Languages.

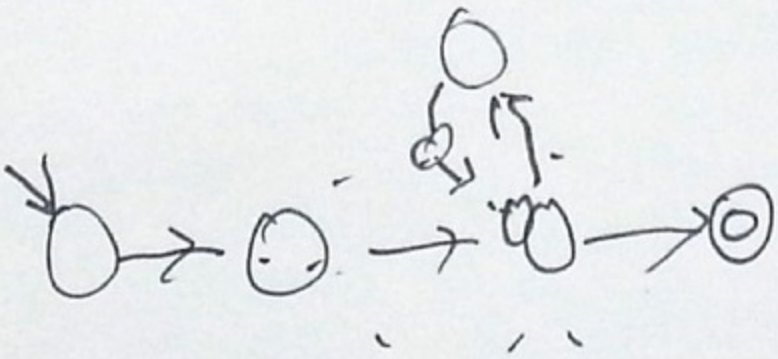
$0^i 1^n$; $n \geq 0$. → $S \to 0S1 \mid \varepsilon$



Infinite state Automata

Pumping Lemma for regular languages (strings)

∵ Infinite language with finite states.



$x y^* z$.

$St \to S \mid SVC \mid SVOO$

Chap.5 Context-Free Grammars

Def CFG $G=(N,\Sigma,P,S)$

1. N ... nonterminal symbols (a set of)

2. Σ ... terminal symbols (a set of) where $N \cap \Sigma = \emptyset$.

3. P ... a set of productions (rule) (A,α) or $A \to \alpha$

$A \in N, \quad \alpha \in (N \cup \Sigma)^*$

4. $S \in N$.