3/20(목) 제6강 Chap3. Regular Languages

Class of R.L's (type3)

finite lang.

closed under ∪, ∘, * → infinite

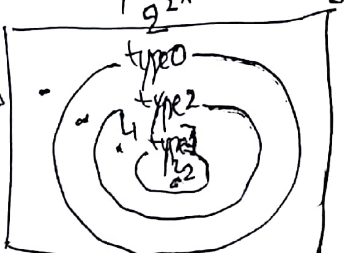
$L_1 = \{a^n b^n \mid n \ge 0\}$ → not regular (context free lang.)
- pumping lemma

$L_2 = \{a^* b^*\}$ – regular

$L_1 \subset L_2$ – Σ^*

~~$L_1 \supset L_2$~~

Chomsky's lang. Hierarchy



Three descriptions for R.L. → CFL
1. regular expressions
2. finite automata ⟶ pushdown automata (Parser)
3. regular grammars ⟶ Context-free grammar

※ Dijkstra's mini-language

if x≥y → m:=x
▯ x≤y → m:=y
fi

3.1 Regular Expression

Language description.