4/5(목) 계117p Chap5 Parsing.

parser < Test if ~~the~~ a string is the sentence $x \in L(G)$?

$x \in L(G)$ → parse tree

$p: \Sigma^* \to P^*$ $\quad G=(N,\Sigma,P,S)$

$\pi = p_t(x)$

parse p_t sentence

Top-Down은 tree를 지난다

Left to Right Scan with Leftmost Derivation

parser 추측과 검증

Guess - verify parser → Deterministic

~~Produce~~ (Produce-Shift)

shift-reduce parser → "

LL(k) parser - Chap 7

LR(k) parser - Chap 6

Left to Right Scan with Rightmost Derivation in Reversed Order!

Bottom-Up은 tree를 지난다.

5.1 Pushdown Automata $(Q \cup \Sigma \cup \{\$, |\}, \gamma, P)$

$\$\gamma_s | w\$ \Rightarrow \$\gamma | \$ \quad \gamma \in F$

end marker, delimiter

$\xi \in P \quad \xi = (\alpha | xy \to \beta | y)$

α: stack string, x: remained input string

$\alpha, \beta \in Q^*$

$x, y = \Sigma^*$

Top ↓ Bottom

Guess-verify Parser

Guess A as α $(A \to \alpha \in P)$ $\quad A| \to {}^{R}\alpha| \in P$ $\quad A$를 α라고 추측 $(A \to \alpha \in P)$

verify a $(a \in \Sigma)$ $\quad a|a \to | \in P$ $\quad a$를 확인 $(a \in \Sigma)$