

5/25 (화) - 4강 LR(k) Parsing 3

∂_k^* ... core는 변하지 않음, lookahead는 변함
 shift $a \in \Sigma$ reduce $A \rightarrow \alpha$

시작은

$[S' \rightarrow \cdot S, \epsilon]$ $\frac{\epsilon}{\epsilon}$

$[S' \rightarrow \cdot S, \$^k]$

X_k^* ... core는 변함, lookahead는 변하지 않음

Canonical Collection of set of LR(k) items: C_k
 (=set) (=LR(k) states)

LR(k) items
 LR(k) items, non-reduced

Algorithm Compute $M = (C_k, N, \Sigma, P, q_s, \emptyset) \rightarrow f.a.e.s\text{-tuple}$
 $q_s := \partial_k^*([S' \rightarrow \cdot S, \epsilon]); C_k := \{q_s\}; P := \emptyset;$
 repeat

repeat

for $q \in C_k$ and $X \in N \cup \Sigma$ do

$p := \partial_k^*(X_k^*(q)); C_k := C_k \cup \{p\}; P := P \cup \{q \cdot X \rightarrow p\}$ od;

$p \in \delta(q, X)$

until nothing is added to C_k .

Example LR(0) machine TP 3/P.