

Chapter 6

상향식 파싱 알고리즘 - **Part II**

예 18: CLR(1) parsing (1/4)

■ 문법

1. $S \rightarrow L = R$ 2. $S \rightarrow R$ 3. $L \rightarrow * R$ 4. $L \rightarrow \text{id}$ 5. $R \rightarrow L$

■ Augmented grammar

0. $S' \rightarrow S$ 1. $S \rightarrow L = R$ 2. $S \rightarrow R$ 3. $L \rightarrow * R$ 4. $L \rightarrow \text{id}$ 5. $R \rightarrow L$

$S' \rightarrow .S, \$$

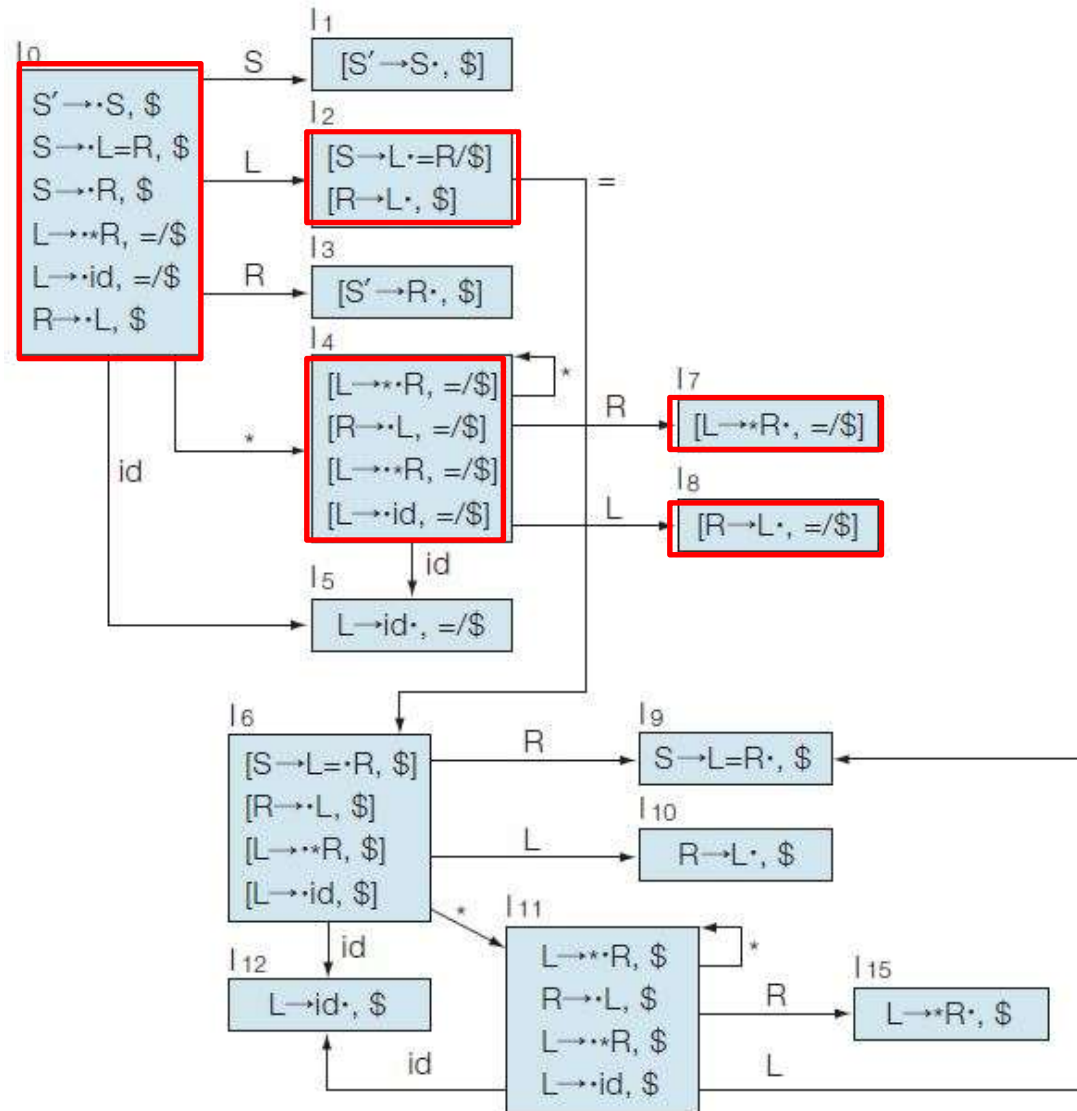


$S' \rightarrow .S, \$$
 $S \rightarrow .L=R, \$$
 $S \rightarrow .R, \$$

$L \rightarrow . * R, =$
 $L \rightarrow . \text{id}, =$

$R \rightarrow .L, \$$

예 18: CLR(1) parsing (2/4) – DFA of LR(1) items



$S' \rightarrow .S, \$$
 $S \rightarrow .L=R, \$$
 $S \rightarrow .R, \$$
 $L \rightarrow . * R, =/\$$
 $L \rightarrow .id, =/\$$
 $R \rightarrow .L, \$$



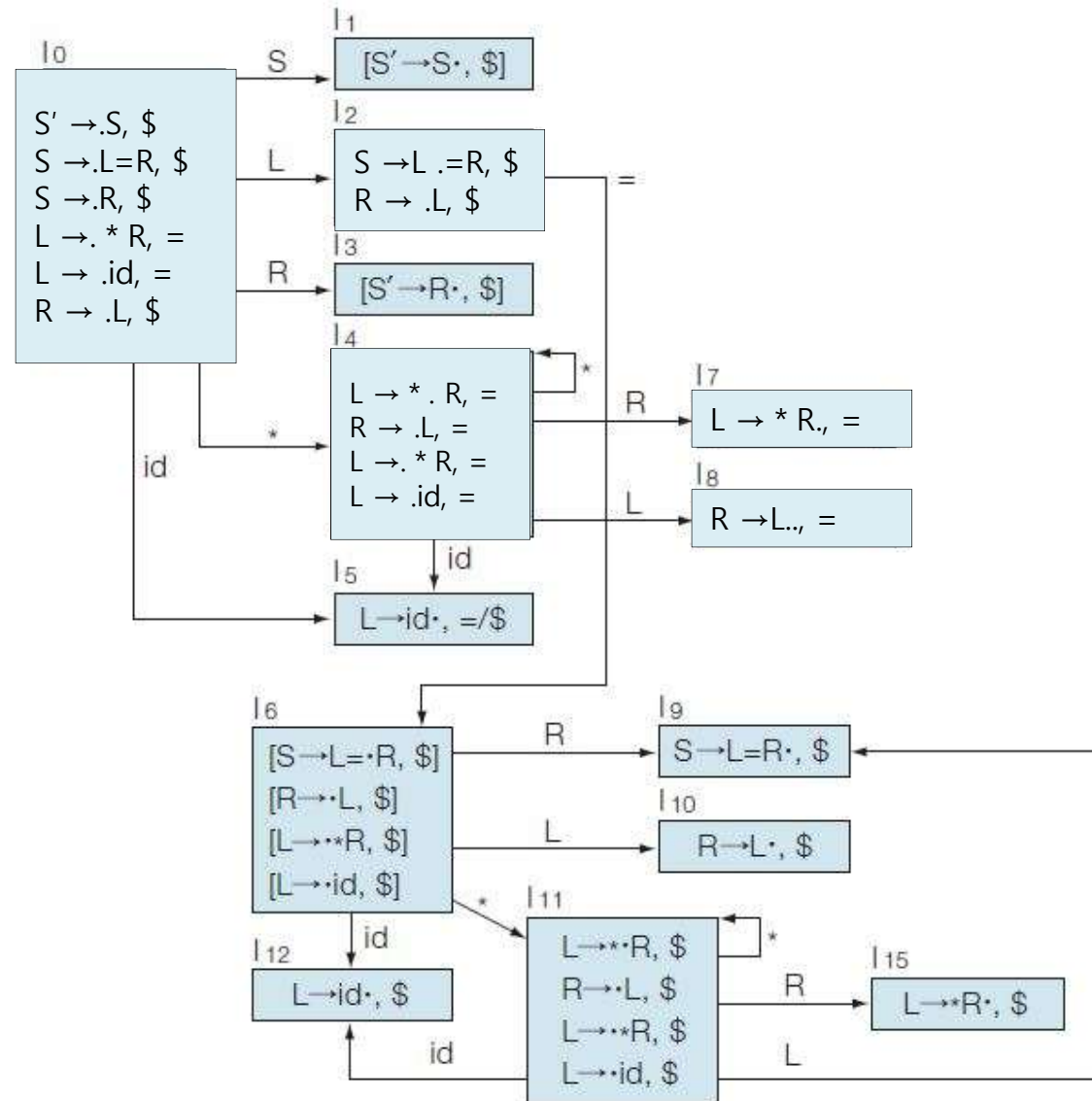
$S' \rightarrow .S, \$$
 $S \rightarrow .L=R, \$$
 $S \rightarrow .R, \$$
 $L \rightarrow . * R, =$
 $L \rightarrow .id, =$
 $R \rightarrow .L, \$$

$L \rightarrow * . R, =/\$$
 $R \rightarrow .L, =/\$$
 $L \rightarrow . * R, =/\$$
 $L \rightarrow .id, =/\$$



$L \rightarrow * . R, =$
 $R \rightarrow .L, =$
 $L \rightarrow . * R, =$
 $L \rightarrow .id, =$

예 18: CLR(1) parsing (2/4) – DFA of LR(1) items



예 18: CLR(1) parsing (1/4)

■ 문법

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$\text{FOLLOW}(L) = \{ =, \$ \}$

$\text{FOLLOW}(R) = \{ =, \$ \}$

$\text{FOLLOW}(S) = \{ \$ \}$