

7. Which of the following grammars are LR(1)? Which are LALR(1)? Which are SLR(1)? In each case, justify your categorization.

b. $S \rightarrow ID := A ;$

$A \rightarrow ID := A$

$A \rightarrow E$

$E \rightarrow E + P$

$E \rightarrow P$

$P \rightarrow ID$

$P \rightarrow (A)$

d. $S \rightarrow ID := A ;$

$A \rightarrow \text{Pre } E$

$\text{Pre} \rightarrow \text{Pre } ID :=$

$\text{Pre} \rightarrow \lambda$

$E \rightarrow E + P$

$E \rightarrow P$

$P \rightarrow ID$

$P \rightarrow (A)$