

# Latihan 8

Consider a grammar below :

$S \rightarrow (L) \mid a$

$L \rightarrow L, S \mid S$

Question :

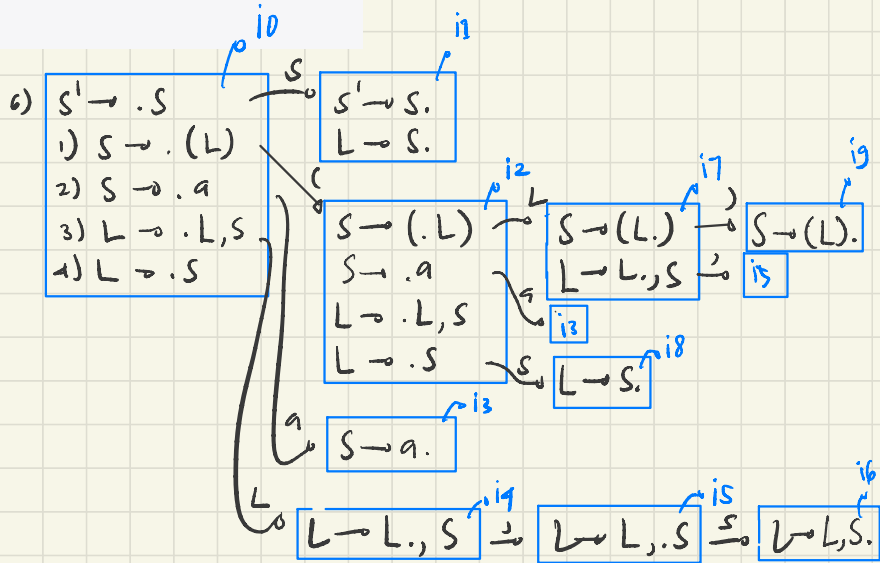
1. Construct an augmented grammar, and kernel/non-kernel item set
2. Construct Transition diagram for GOTO operation
3. Construct an SLR table
4. Check Input : SASS

- 1) ✓
- 2)  $S \rightarrow (L)$   
 $S \rightarrow a$   
 $L \rightarrow L, S$   
 $L \rightarrow S$

- 3)  $S' \rightarrow S$   
 $S \rightarrow (L)$   
 $S \rightarrow a$   
 $L \rightarrow L, S$   
 $L \rightarrow S$

- 4)  $S' \rightarrow S$   
 $S \rightarrow (L)$   
 $S \rightarrow a$   
 $L \rightarrow L, S$   
 $L \rightarrow S$

- 5)  $S' \rightarrow .S$   
 $S \rightarrow .(L)$   
 $S \rightarrow .a$   
 $L \rightarrow .L, S$   
 $L \rightarrow .S$



7) Follow

Soal :

$S \rightarrow (L) \mid a$

$L \rightarrow L, S \mid S$

Follow  $S = \{ \}$

Follow  $L = \{ , , \}$

0	(	)	,	9	S	L	\$
1	S2	R4	R4	S3	1	4	ACC
2				S3	8	7	R2
3							
4			S5				
5					6		
6		R3	R3				
7		S9	S5				
8		R4	R4				
9							A1

9) Stack

Stack 0\$	Input S9SS\$	Output 1 Rejected.
		