



Grammar

LR(0) Table

	\$	x	u	v	A	B	C	D
0	r(D → &epsilon;)	r(D → &epsilon;)/s6	r(D → &epsilon;)	r(D → &epsilon;)/s5	s4	s3	s2	s1
1	r(B → D)/r(C → D)	r(B → D)/r(C → D)	r(B → D)/r(C → D)	r(B → D)/r(C → D)				
2			s10					
3	r(A → B)	r(A → B)	r(A → B)	r(A → B)				
4	acc	acc	acc	acc				
5	r(D → &epsilon;)	r(D → &epsilon;)/s6	r(D → &epsilon;)	r(D → &epsilon;)		s9	s8	s1

6	$r(D \rightarrow \epsilon)$	$r(D \rightarrow \epsilon)/s6$	$r(D \rightarrow \epsilon)$	$r(D \rightarrow \epsilon)$				s7
7	$r(D \rightarrow x D)$	$r(D \rightarrow x D)$	$r(D \rightarrow x D)$	$r(D \rightarrow x D)$				
8	$r(A \rightarrow v C)$	$r(A \rightarrow v C)$	$r(A \rightarrow v C)$	$r(A \rightarrow v C)$				
9			s11					
10	$r(A \rightarrow C u)$	$r(A \rightarrow C u)$	$r(A \rightarrow C u)$	$r(A \rightarrow C u)$				
11	$r(A \rightarrow v B u)$	$r(A \rightarrow v B u)$	$r(A \rightarrow v B u)$	$r(A \rightarrow v B u)$				

SLR(1) Table

	\$	x	u	v	A	B	C	D
0	$r(D \rightarrow \epsilon)$	s6	$r(D \rightarrow \epsilon)$	s5	s4	s3	s2	s1
1	$r(B \rightarrow D)/r(C \rightarrow D)$		$r(B \rightarrow D)/r(C \rightarrow D)$					
2			s10					
3	$r(A \rightarrow B)$							
4	acc							
5	$r(D \rightarrow \epsilon)$	s6	$r(D \rightarrow \epsilon)$			s9	s8	s1
6	$r(D \rightarrow \epsilon)$	s6	$r(D \rightarrow \epsilon)$					s7
7	$r(D \rightarrow x D)$		$r(D \rightarrow x D)$					
8	$r(A \rightarrow v C)$							
9			s11					
10	$r(A \rightarrow C u)$							
11	$r(A \rightarrow v B u)$							

The grammar is not LR(0) because:

- shift/reduce conflict in state 0.
- reduce/reduce conflict in state 1.
- shift/reduce conflict in state 5.
- shift/reduce conflict in state 6.

Neither is it SLR(1) because:

- reduce/reduce conflict in state 1.

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