



## Grammar

$S' \rightarrow S \cdot$   
 $S \rightarrow A a$   
 $\quad | b A c$   
 $\quad | d c$   
 $\quad | b d a \cdot$   
 $A \rightarrow d \cdot$

LR(0) Table

	\$	d	a	b	c	S'	S	A
0		s5		s4		s3	s2	s1
1			s9					
2	r(S' → S)	r(S' → S)	r(S' → S)	r(S' → S)	r(S' → S)			
3	acc	acc	acc	acc	acc			
4		s8						s7
5	r(A → d)	r(A → d)	r(A → d)	r(A → d)	r(A → d)/s6			
6	r(S → d c)	r(S → d c)	r(S → d c)	r(S → d c)	r(S → d c)			
7					s11			
8	r(A → d)	r(A → d)	r(A → d)/s10	r(A → d)	r(A → d)			
9	r(S → A a)	r(S → A a)	r(S → A a)	r(S → A a)	r(S → A a)			
10	r(S → b d a)	r(S → b d a)	r(S → b d a)	r(S → b d a)	r(S → b d a)			
11	r(S → b A c)	r(S → b A c)	r(S → b A c)	r(S → b A c)	r(S → b A c)			

SLR(1) Table

	\$	d	a	b	c	S'	S	A
0		s5		s4		s3	s2	s1
1			s9					
2	r(S' → S)							
3	acc							

4		s8					s7
5			$r(A \rightarrow d)$		$r(A \rightarrow d)/s6$		
6	$r(S \rightarrow d c)$						
7					s11		
8			$r(A \rightarrow d)/s10$		$r(A \rightarrow d)$		
9	$r(S \rightarrow A a)$						
10	$r(S \rightarrow b d a)$						
11	$r(S \rightarrow b A c)$						

The grammar is not LR(0) because:

- shift/reduce conflict in state 5.
- shift/reduce conflict in state 8.

Neither is it SLR(1) because:

- shift/reduce conflict in state 5.
- shift/reduce conflict in state 8.

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