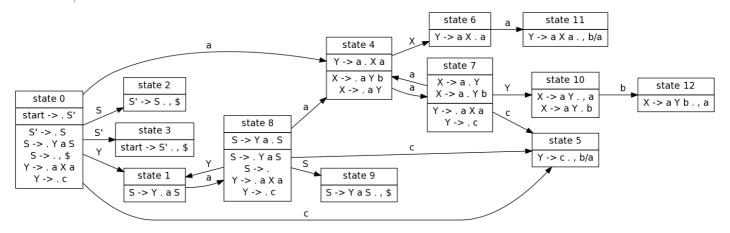
## The following is the auxiliary grammar (G'), as per Bermudez and Logothetis 1989:

## **Auxiliary Grammar**



## Grammar

## LALR(1) Table

	\$	c	a	b	S'	S	Y	X
0	$r(S \rightarrow \ε)$	s5	s4		s3	s2	s1	
1			s8					
2	$r(S' \to S)$							
3	acc							
4			s7					s6
5			$r(Y \rightarrow c)$	$r(Y \rightarrow c)$				
6			s11					
7		s5	s4				s10	
8		s5	s4			s9	s1	
9	$r(S \rightarrow Y a S)$							
10			$r(X \rightarrow a Y)$	s12				
11			$r(Y \rightarrow a X a)$	$r(Y \rightarrow a X a)$				
12			$r(X \rightarrow a Y b)$					

It is LALR(1).