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

Auxiliary Grammar

$S'_0 \rightarrow S_0$.

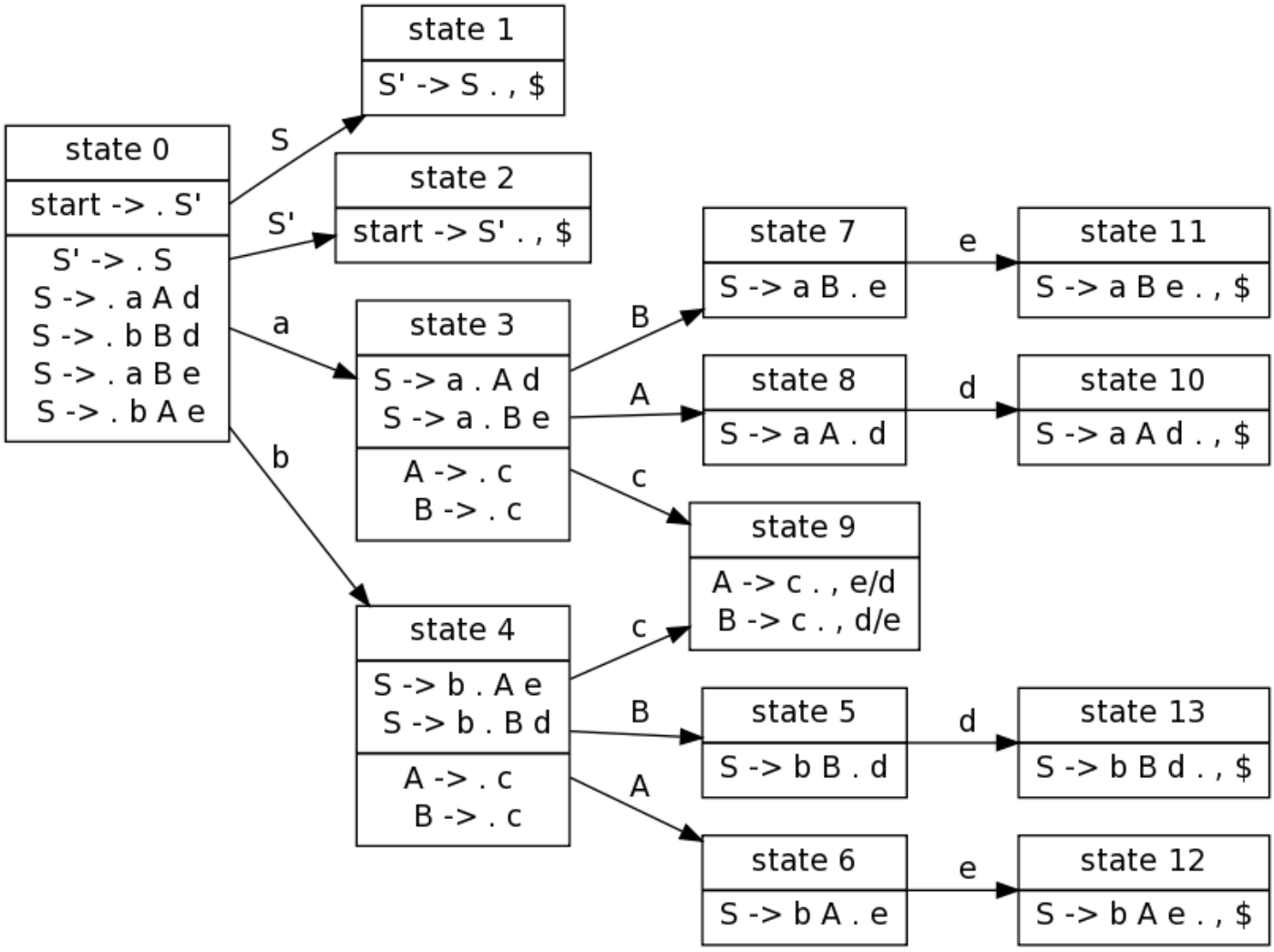
$S_0 \rightarrow$ a A_3 d
| b B_4 d
| a B_3 e
| b A_4 e .

$A_3 \rightarrow$ c .

$B_3 \rightarrow$ c .

$A_4 \rightarrow$ c .

$B_4 \rightarrow$ c .



Grammar

S' → S .

S → a A d
| b B d
| a B e
| b A e .

A → c .

B → c .

LALR(1) Table

	$	c	e	b	a	d	S'	S	A	B
0				s4	s3		s2	s1		
1	r(S' → S)									
2	acc									
3		s9							s8	s7
4		s9							s6	s5
5						s13				
6			s12							

7			s11							
8						s10				
9			r(A → c)/r(B → c)			r(A → c)/r(B → c)				
10	r(S → a A d)									
11	r(S → a B e)									
12	r(S → b A e)									
13	r(S → b B d)									

It is not LALR(1) because:

- reduce/reduce conflict in state 9.

Return home to enter a new grammar.