

Construire la tabla de parsing LR(0) de:

$S \rightarrow ibtSe$

$S \rightarrow ibtSlSe$

$S \rightarrow S;I$

$S \rightarrow I$

$I \rightarrow a$

$I \rightarrow b$

# Construir la tabla de parsing LR(0) de:

- 1) Agregar una nueva producción inicial que llegue al simbolo inicial.
- 2) Enumerar desde cero las reglas de la gramática.

$$(0) S' \rightarrow S$$

$$(1) S \rightarrow ibtSe$$

$$(2) S \rightarrow ibtSlSe$$

$$(3) S \rightarrow S;I$$

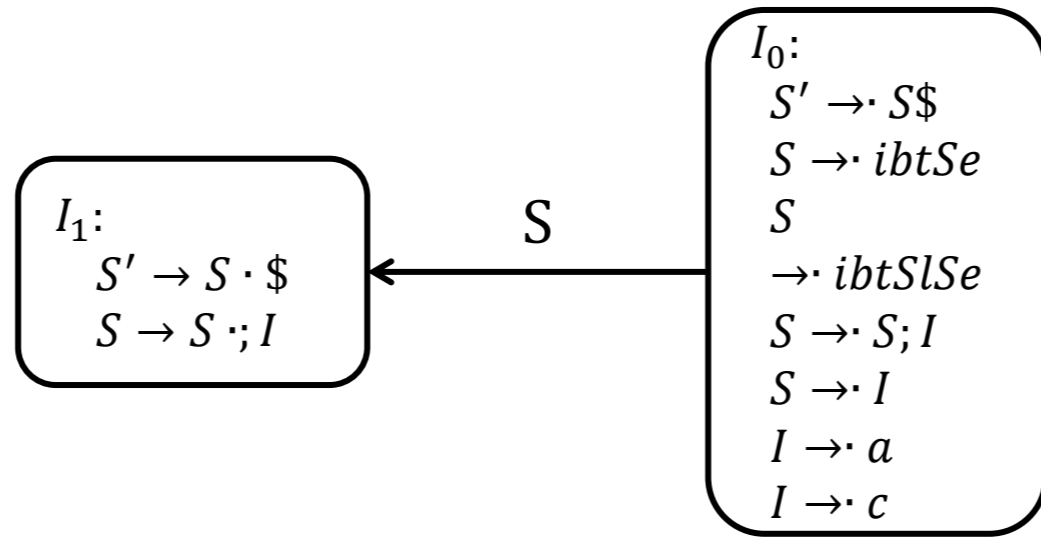
$$(4) S \rightarrow I$$

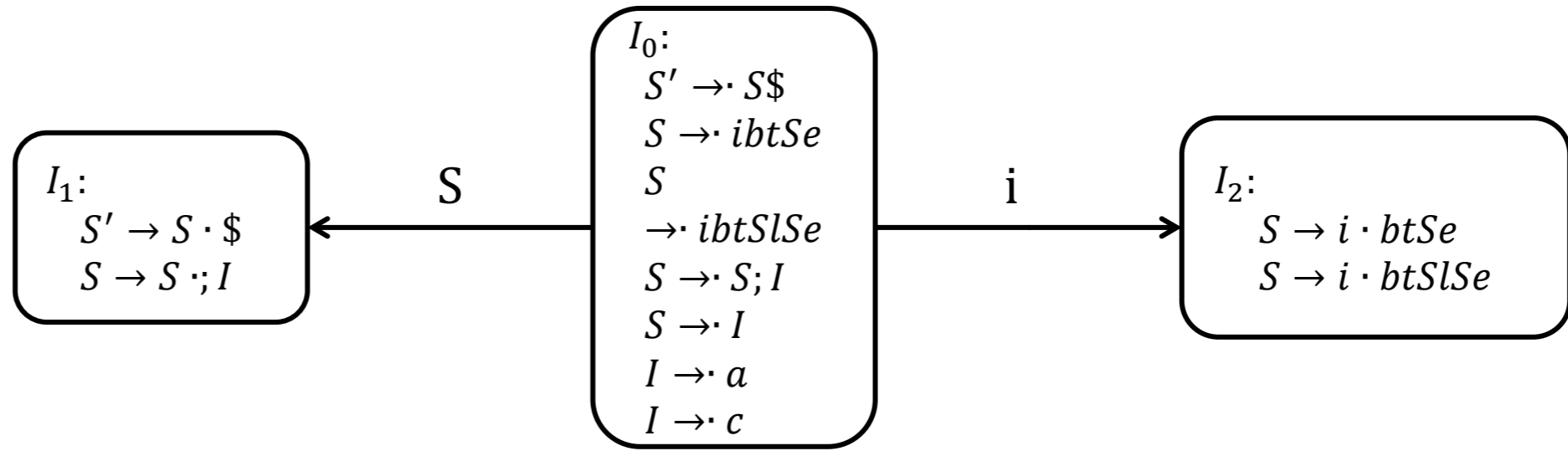
$$(5) I \rightarrow a$$

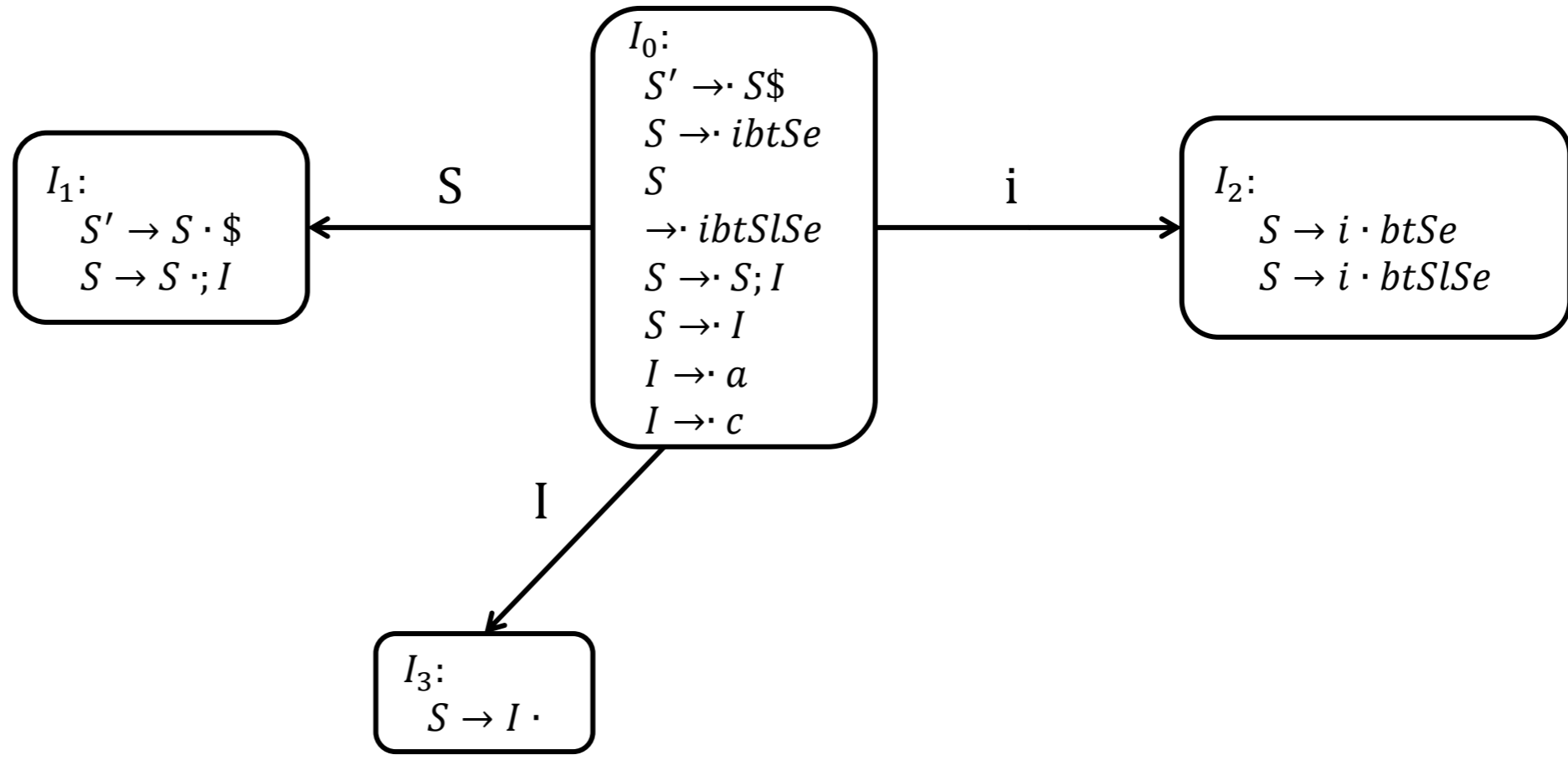
$$(6) I \rightarrow b$$

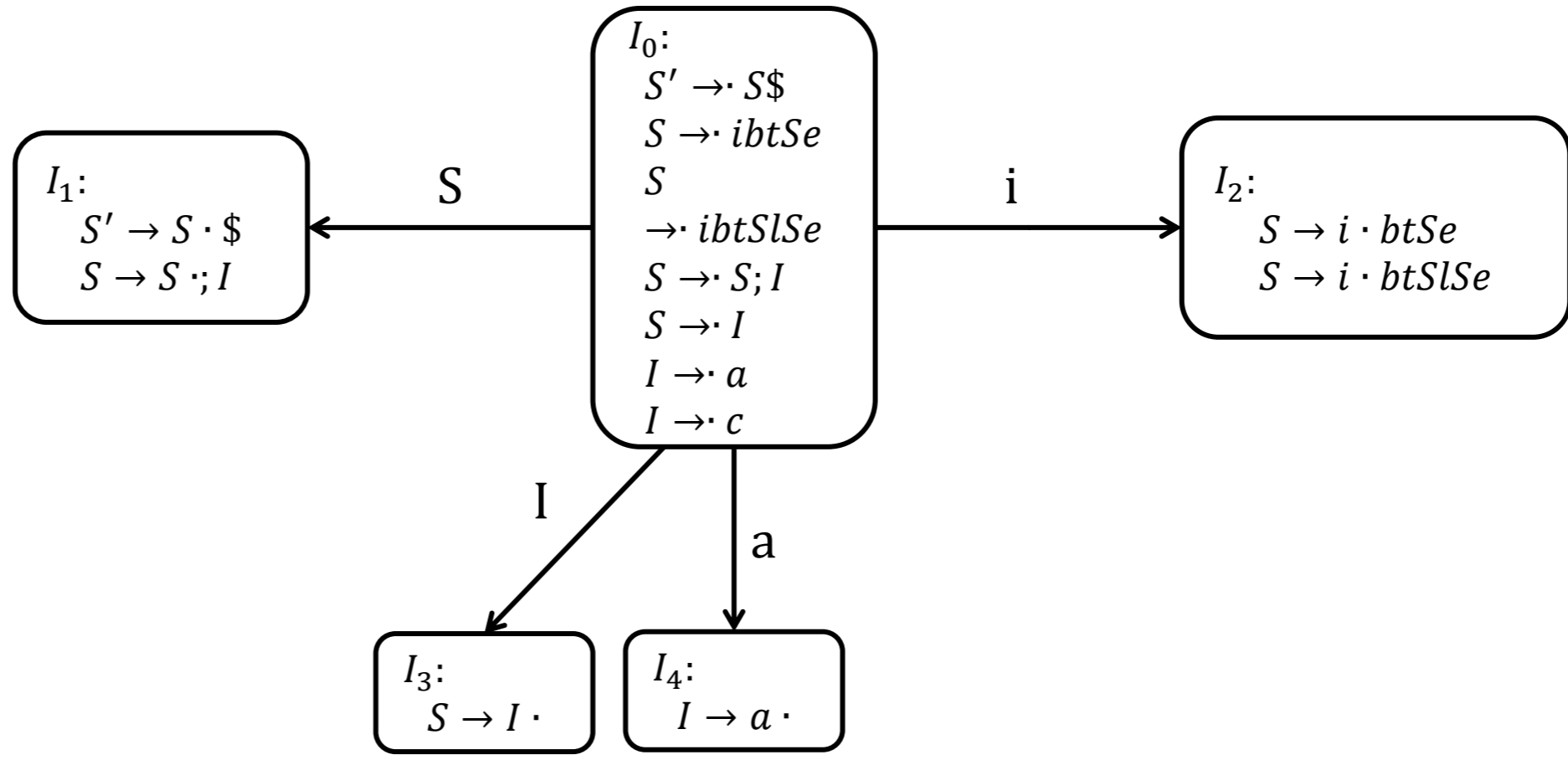
- 3) Construir el Autómata de Prefijos Viables

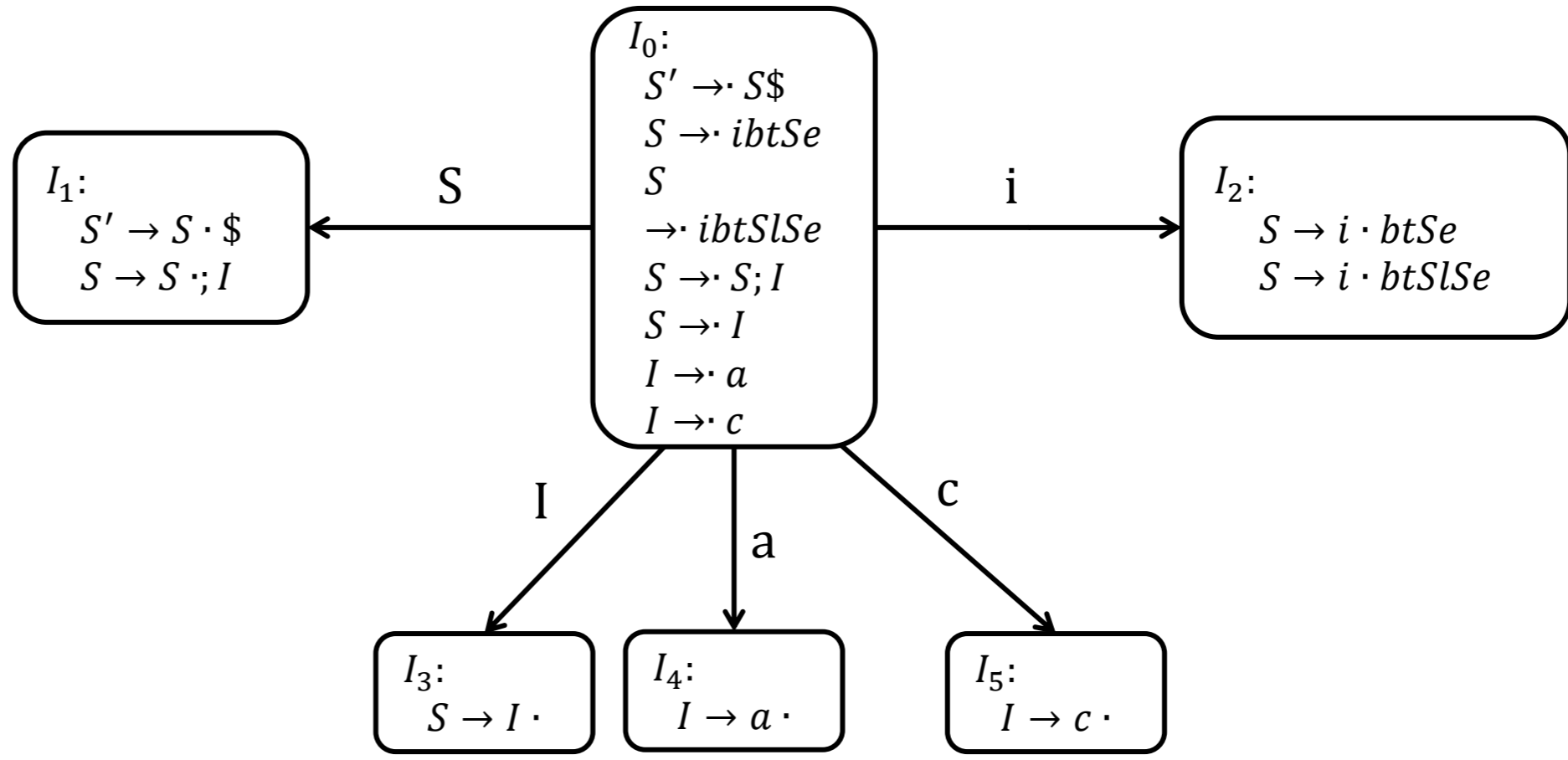
$I_0:$   
 $S' \rightarrow \cdot S\$$   
 $S \rightarrow \cdot ibtSe$   
 $S$   
 $\rightarrow \cdot ibtSlSe$   
 $S \rightarrow \cdot S;I$   
 $S \rightarrow \cdot I$   
 $I \rightarrow \cdot a$   
 $I \rightarrow \cdot c$



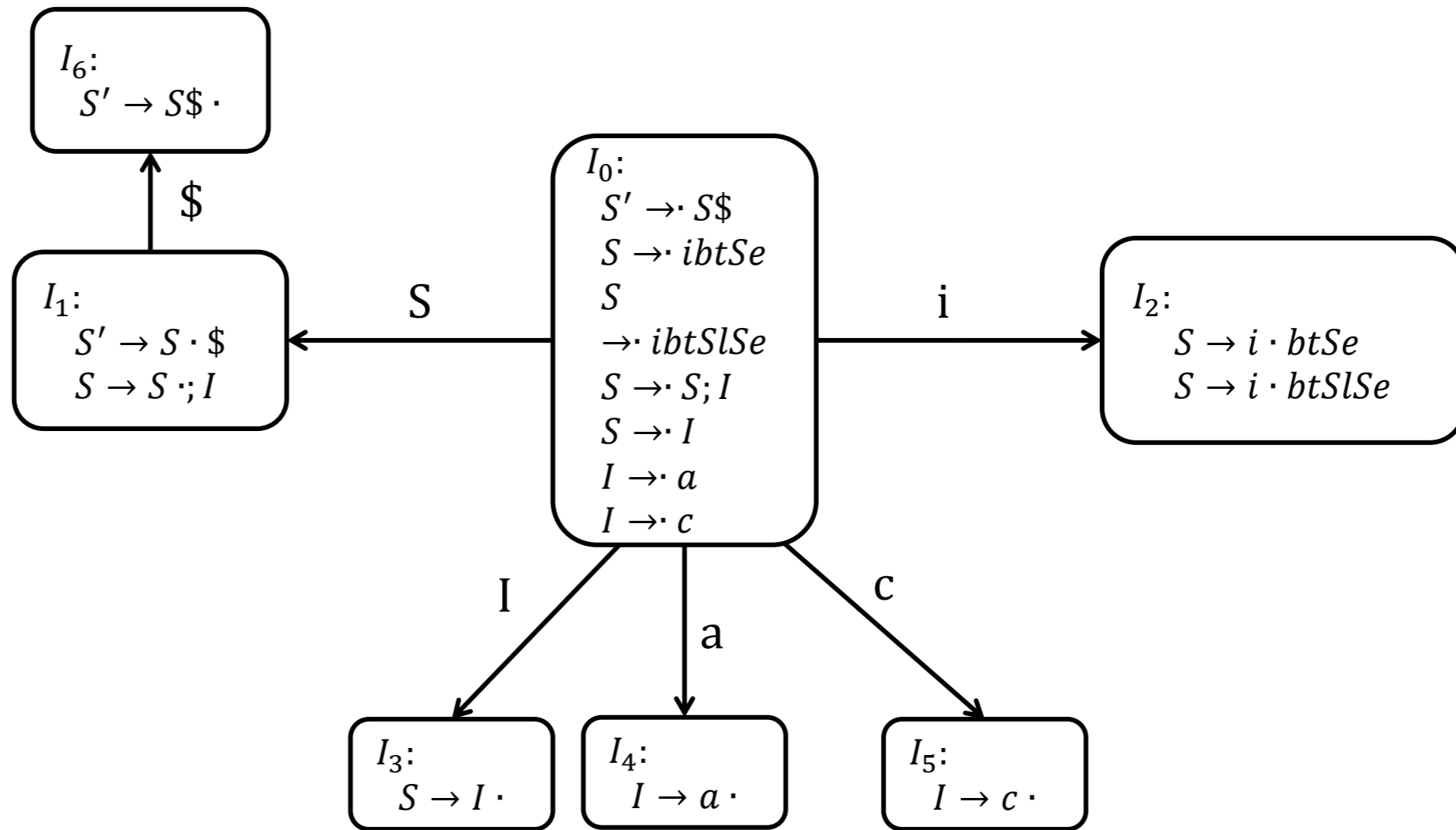


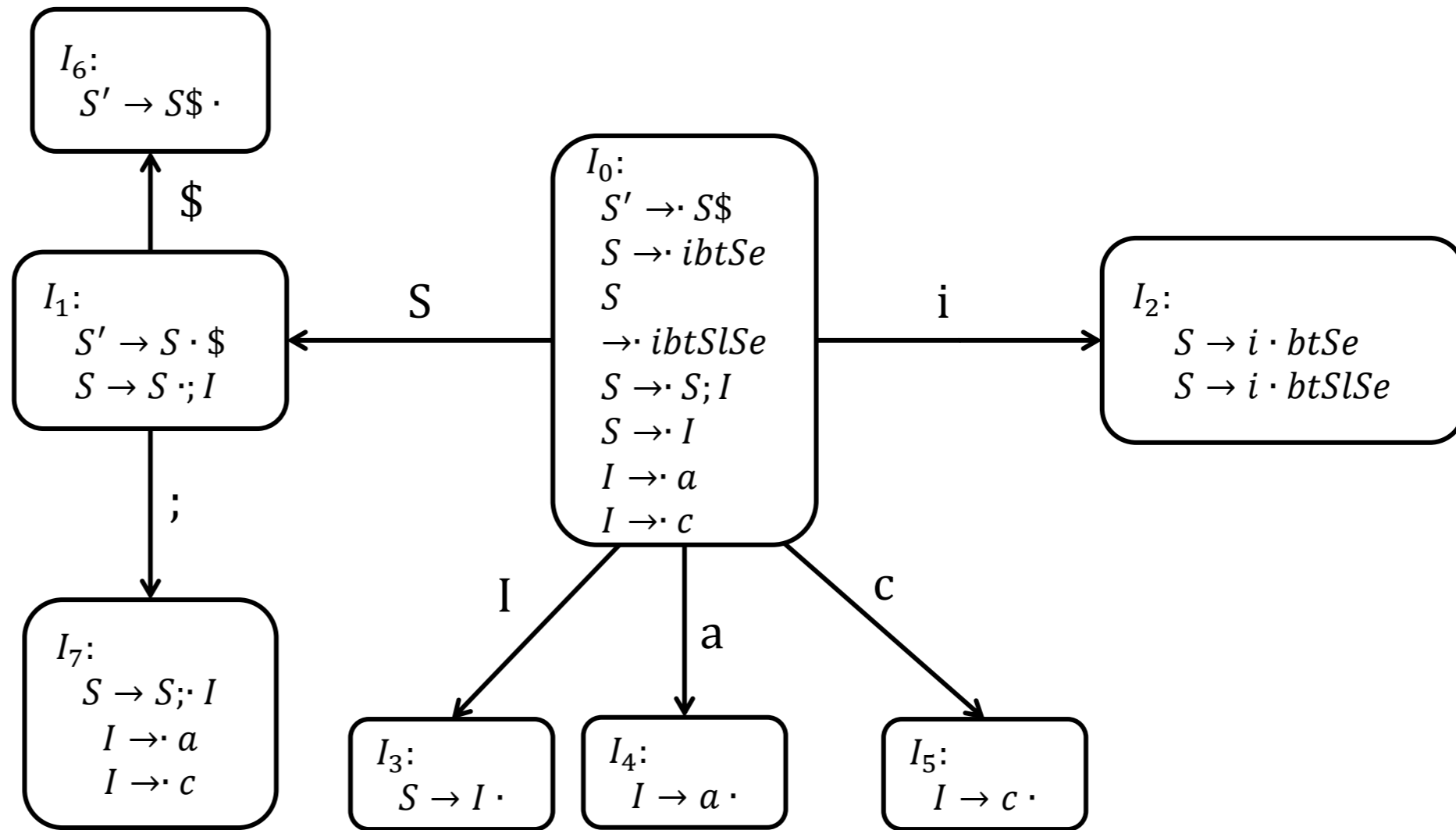


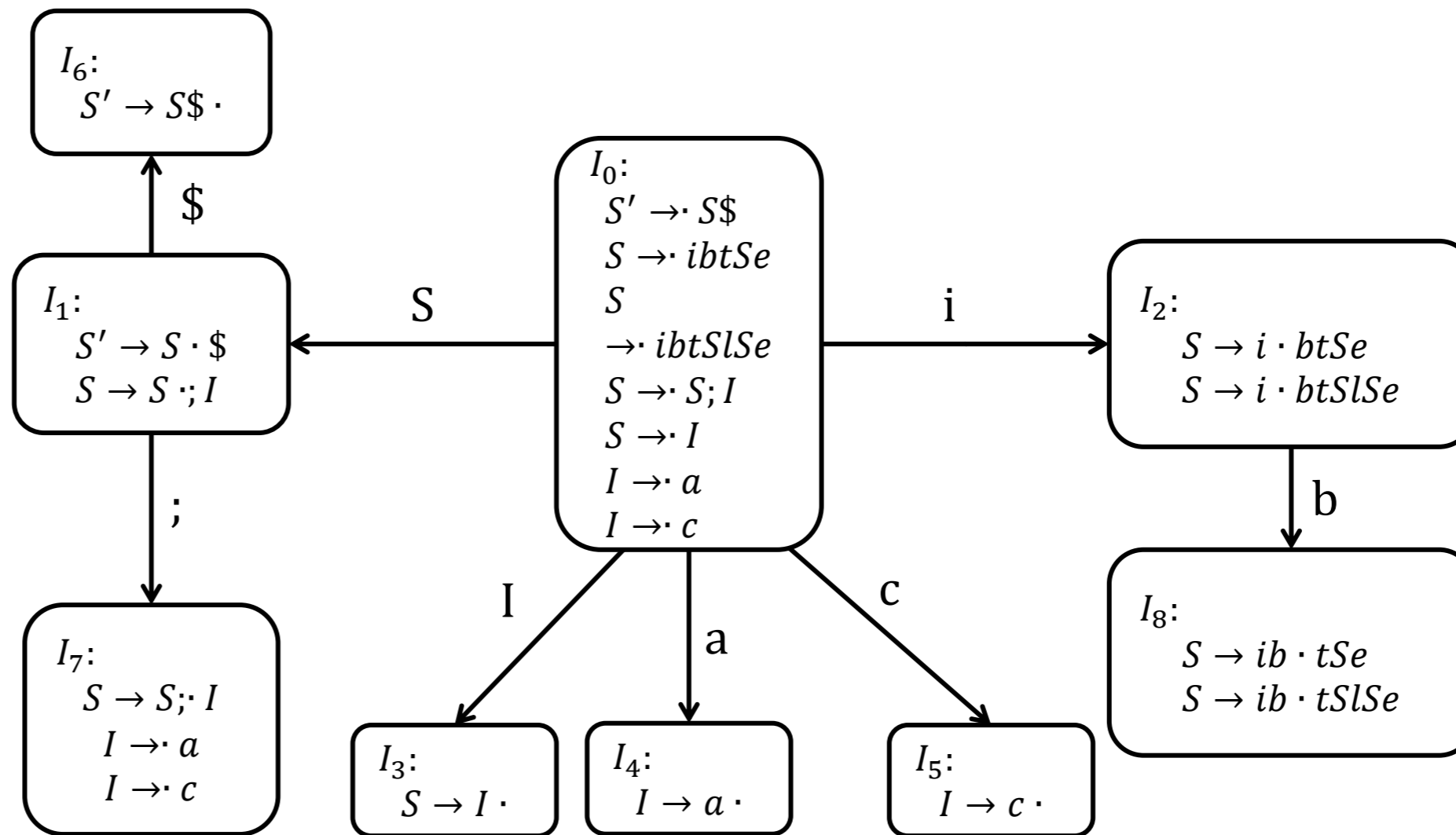


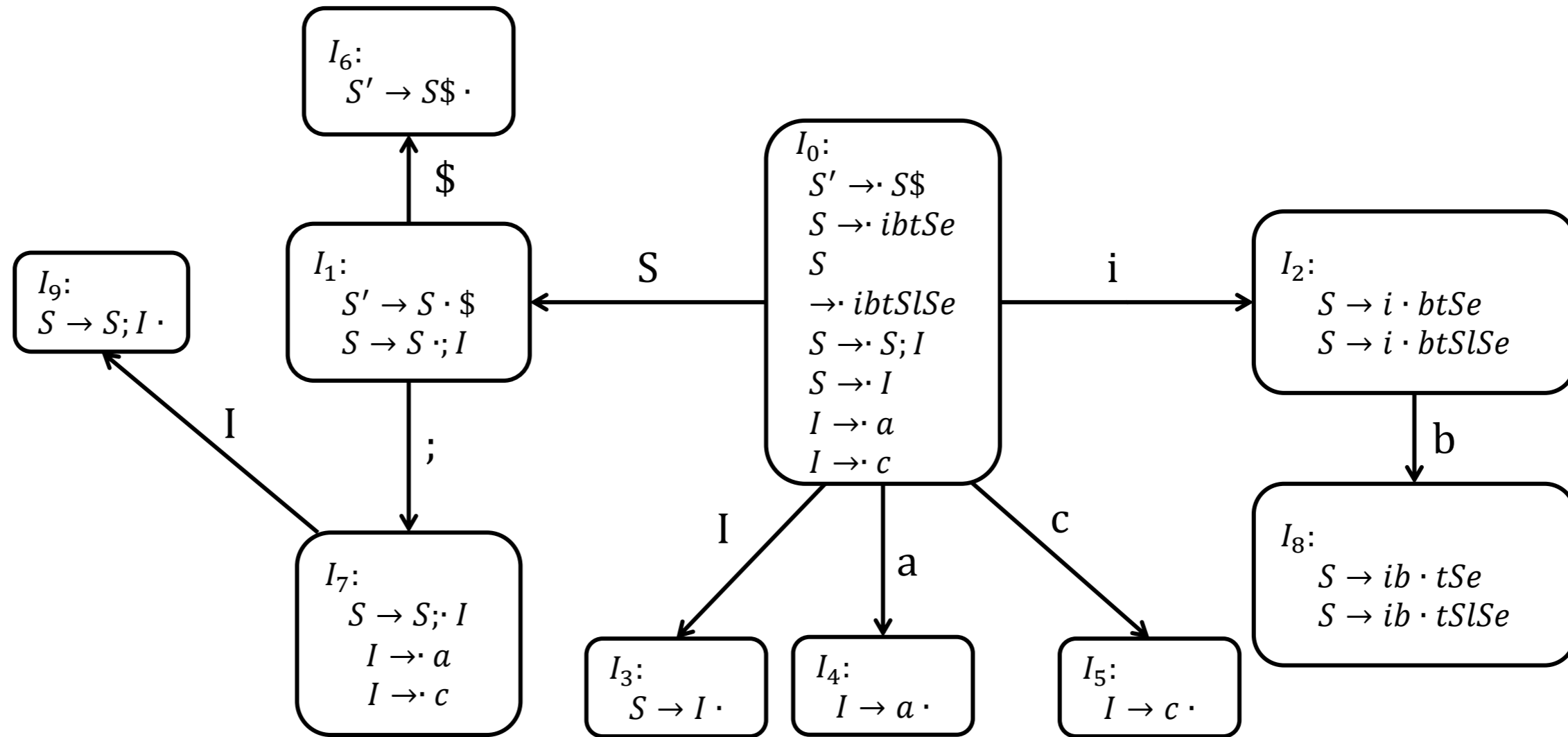


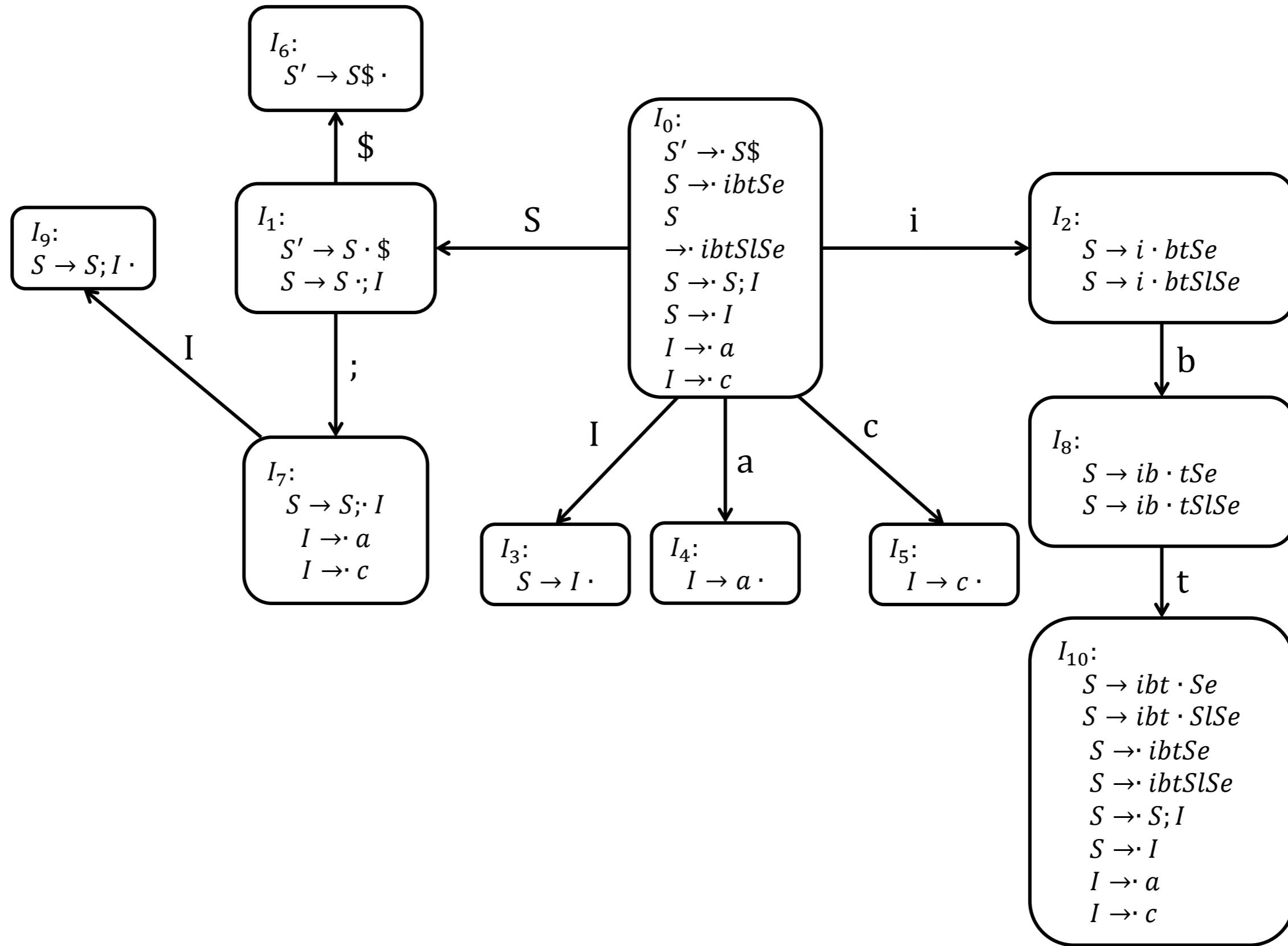


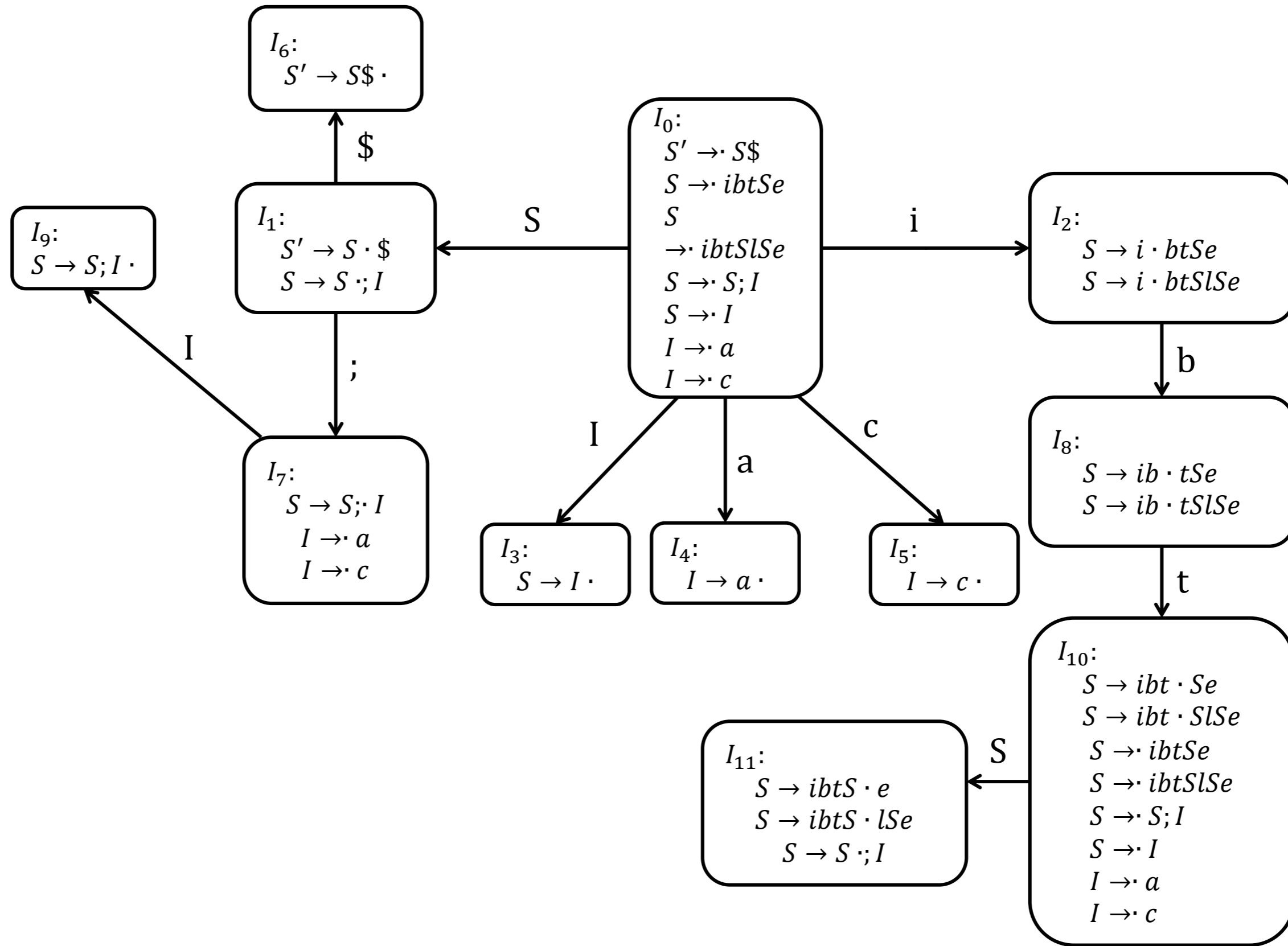


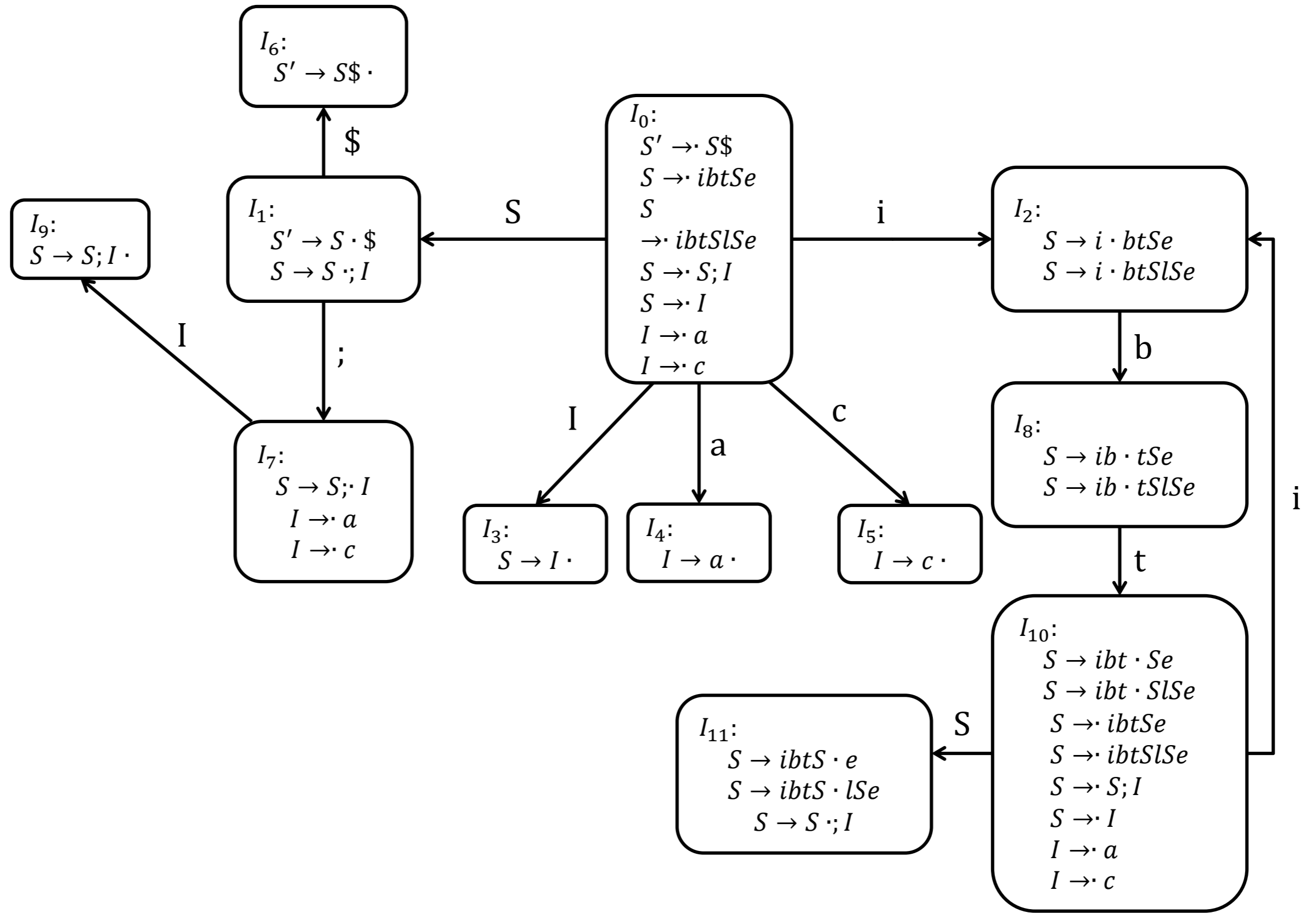


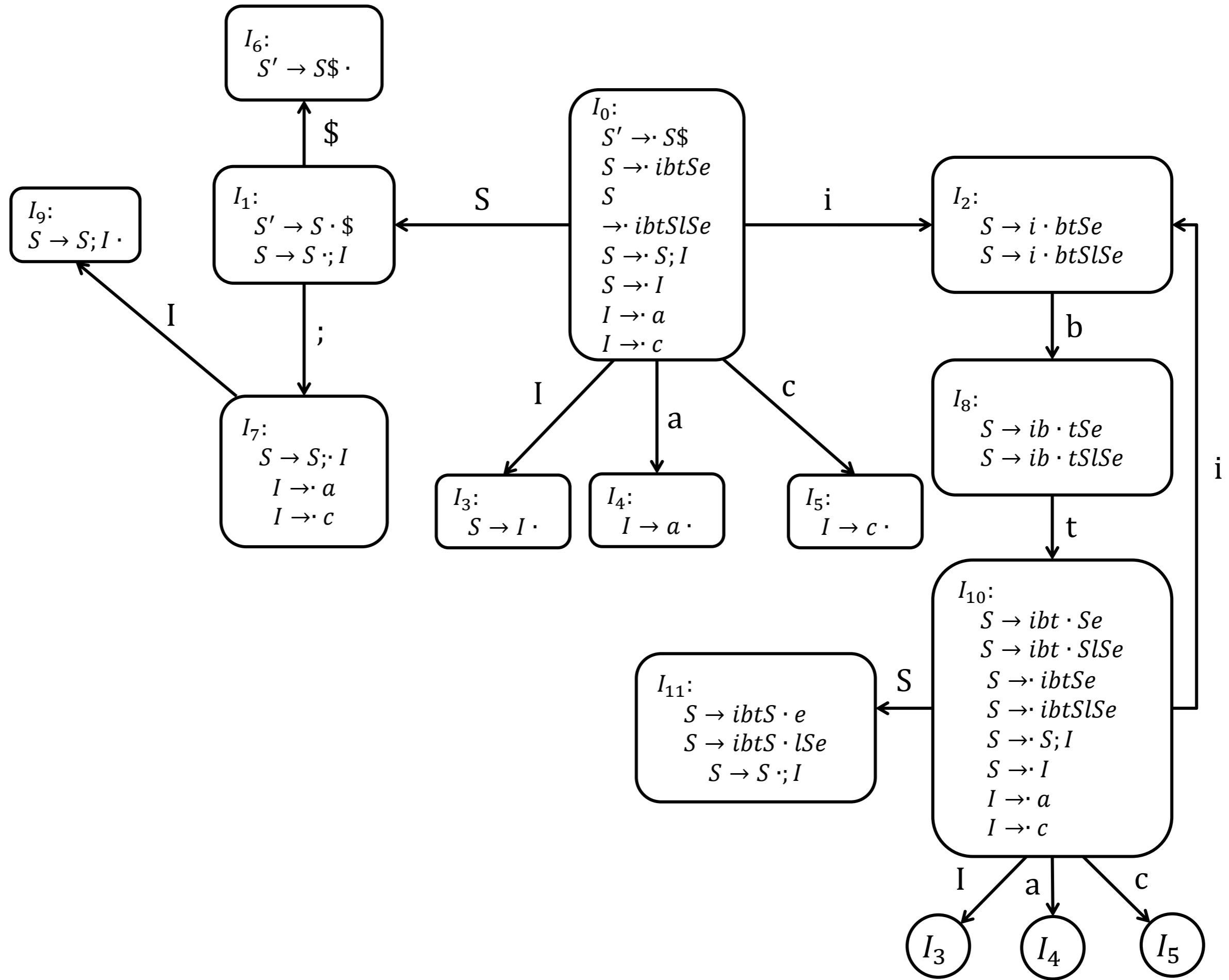




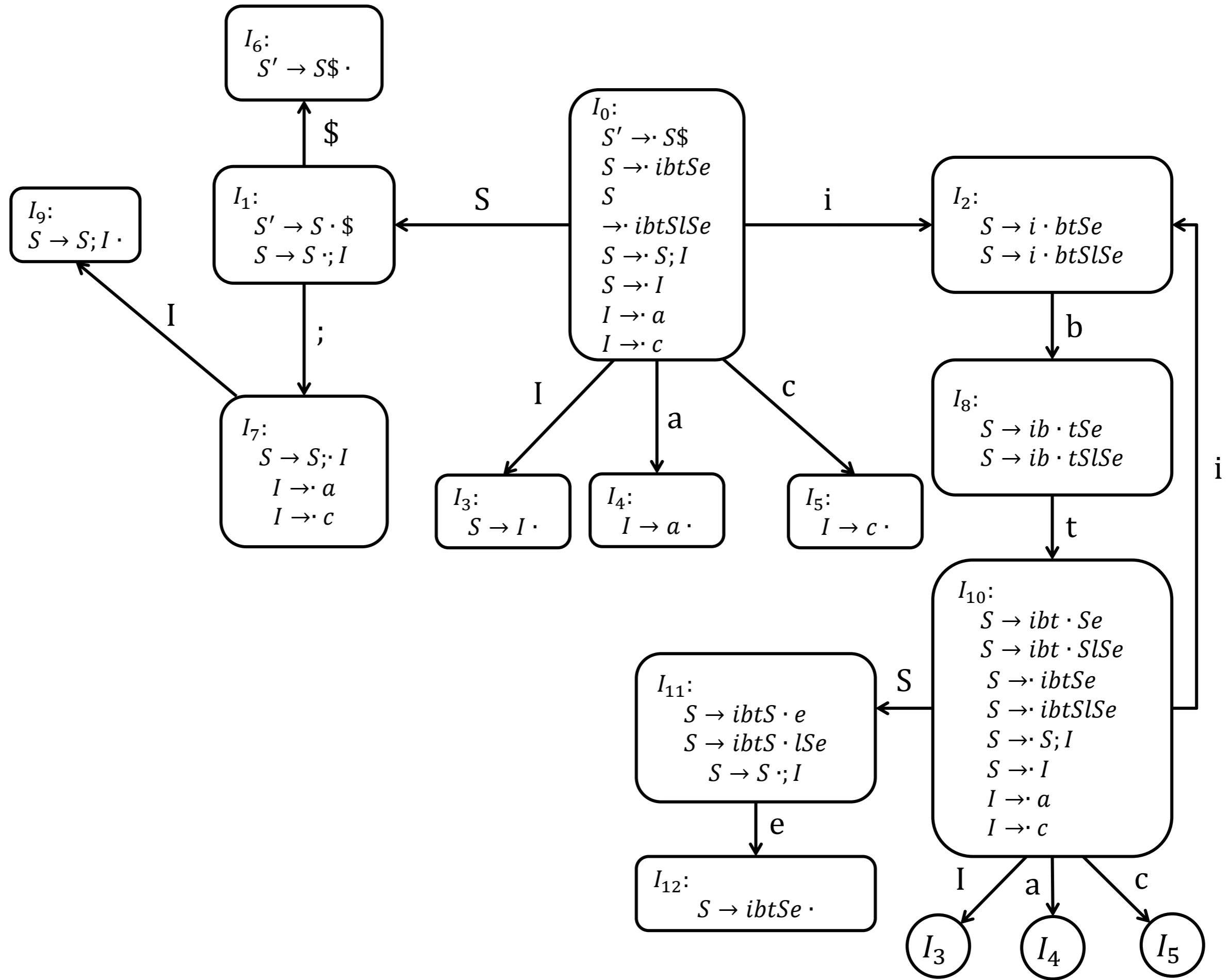


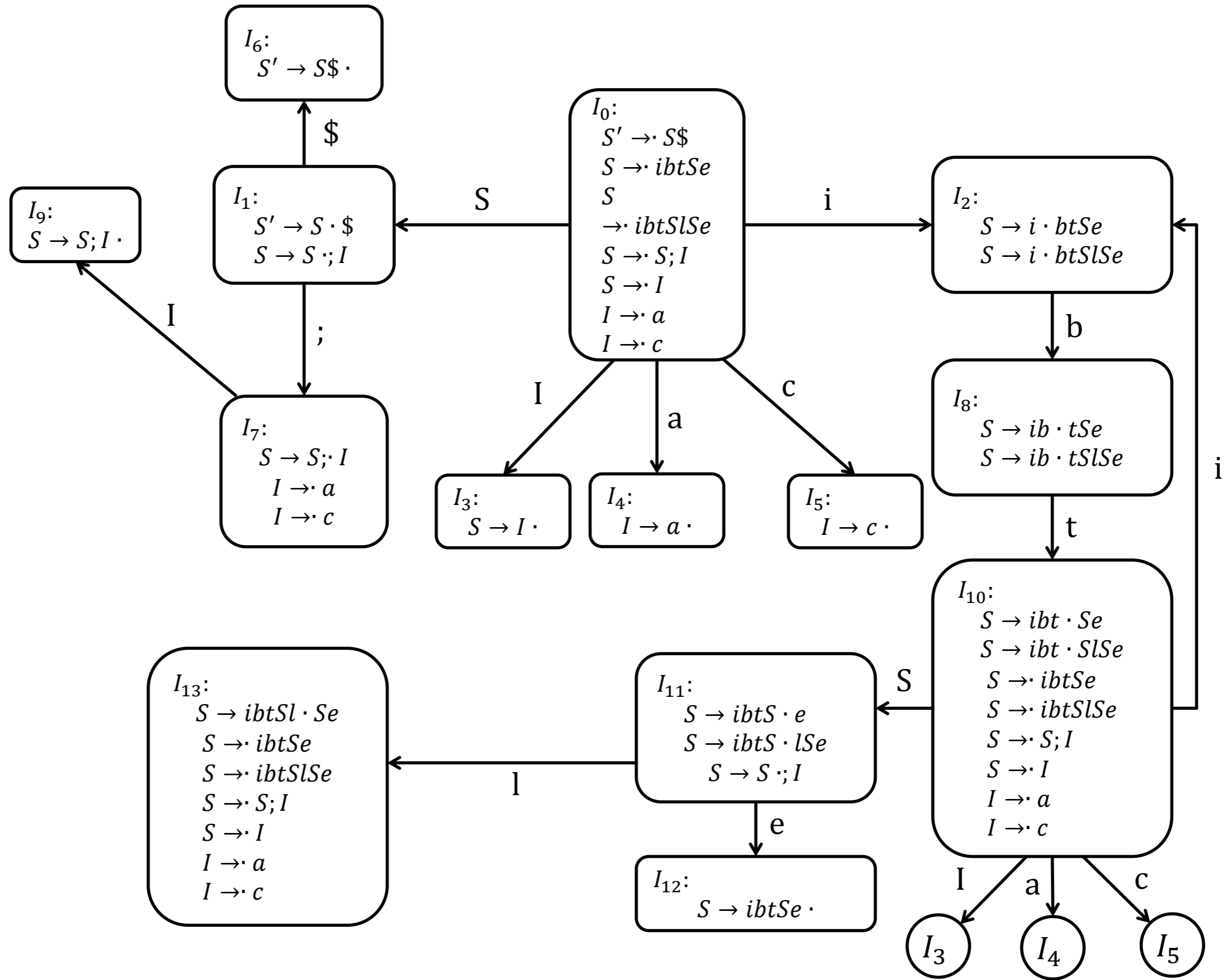


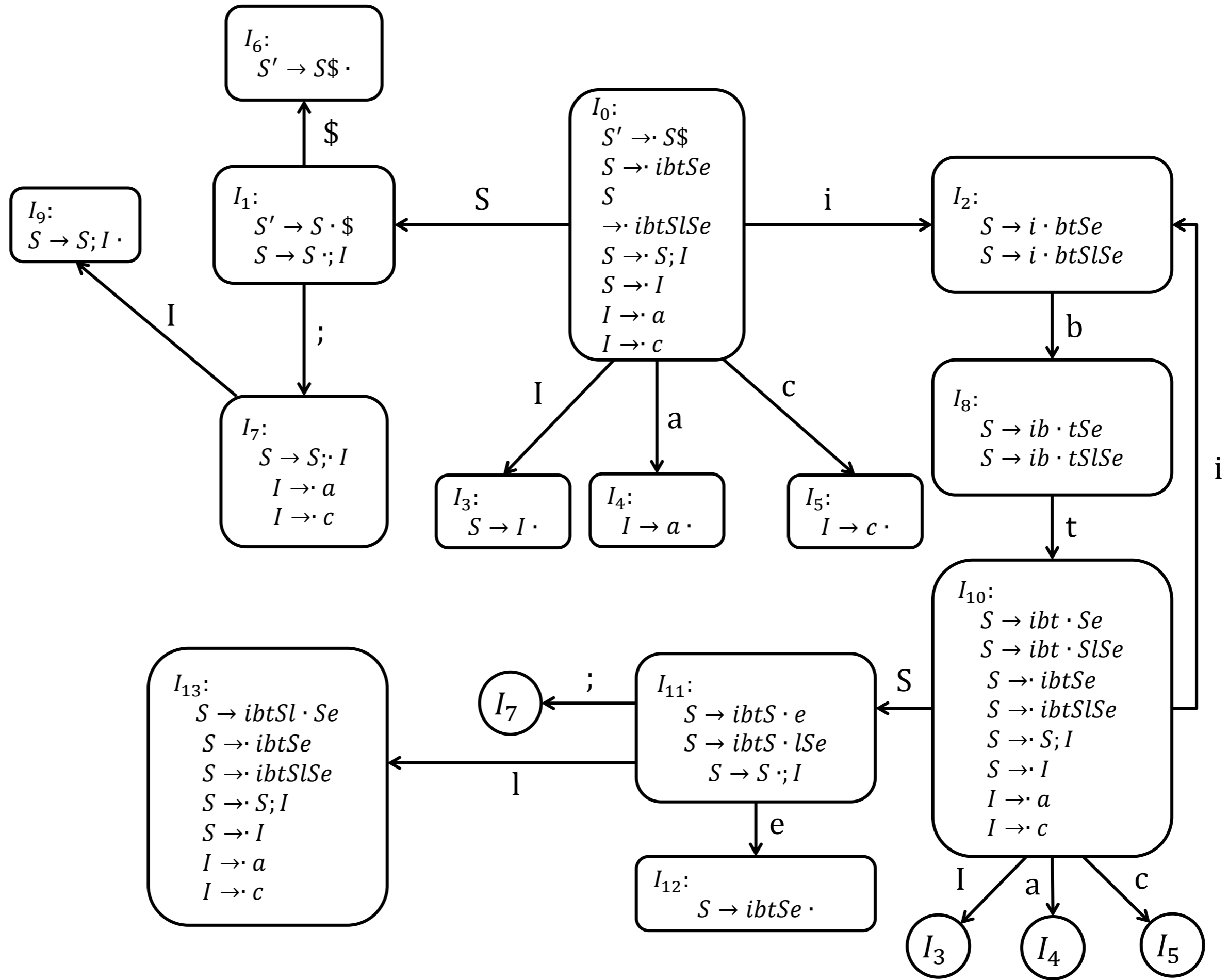


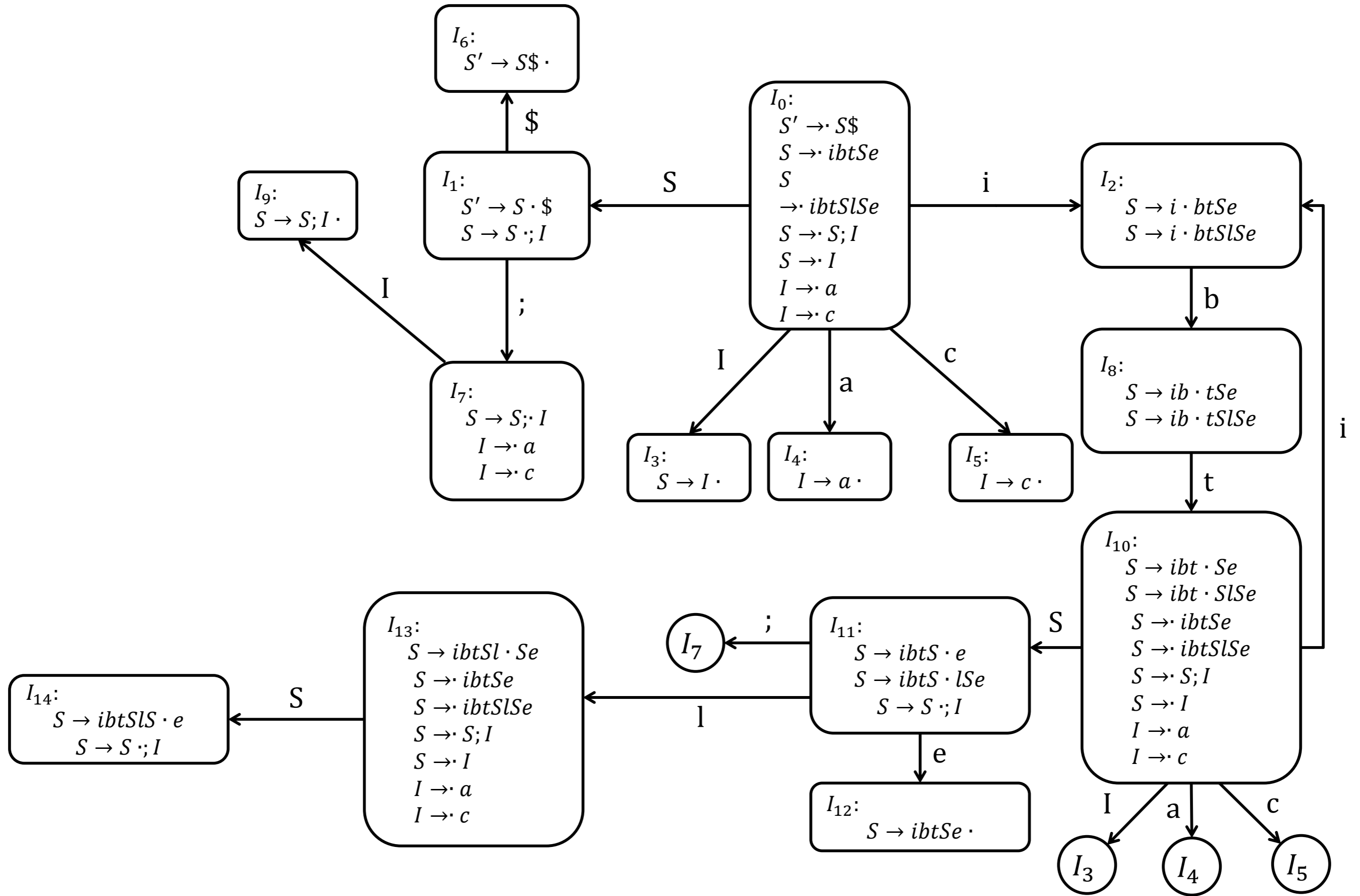


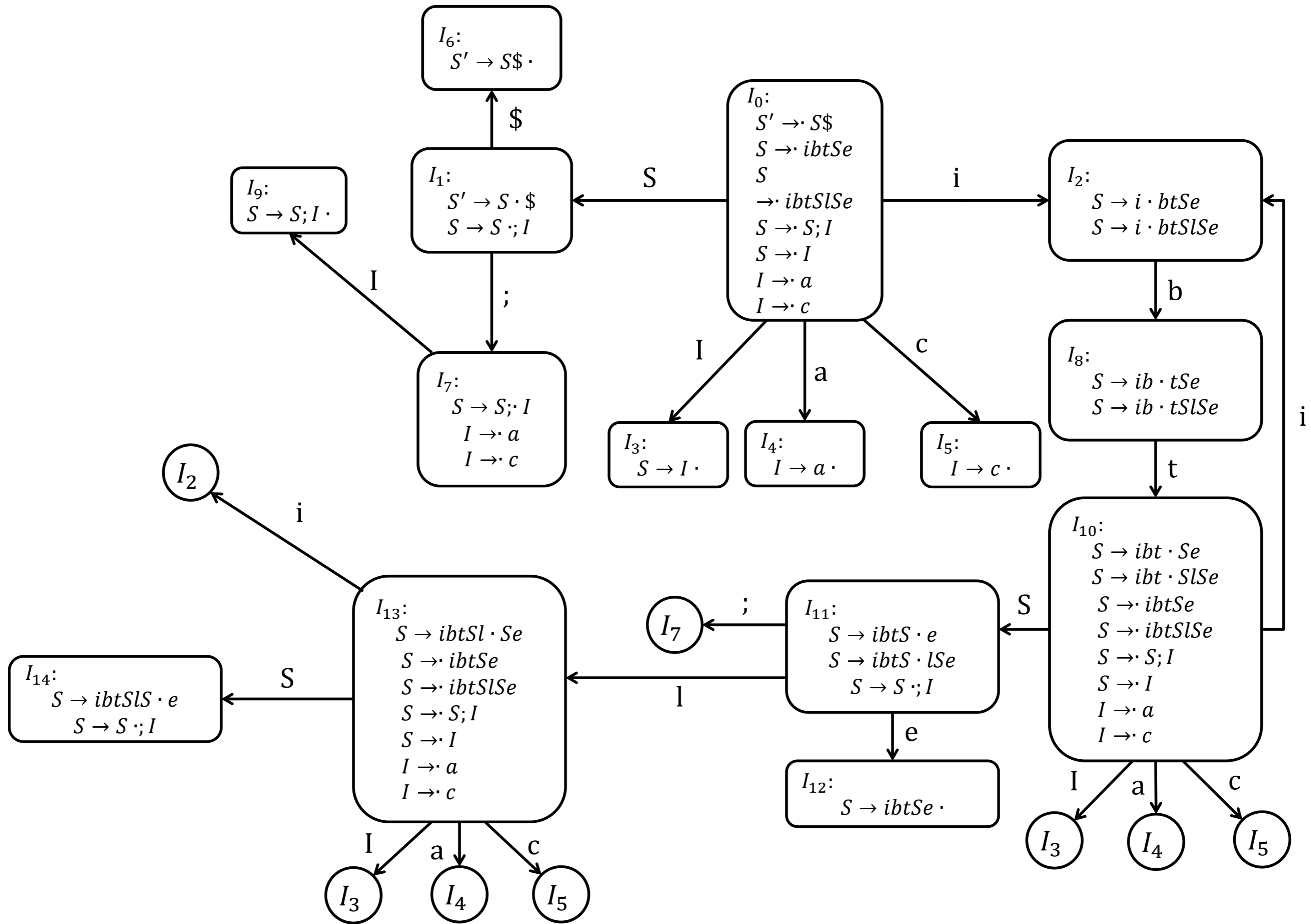


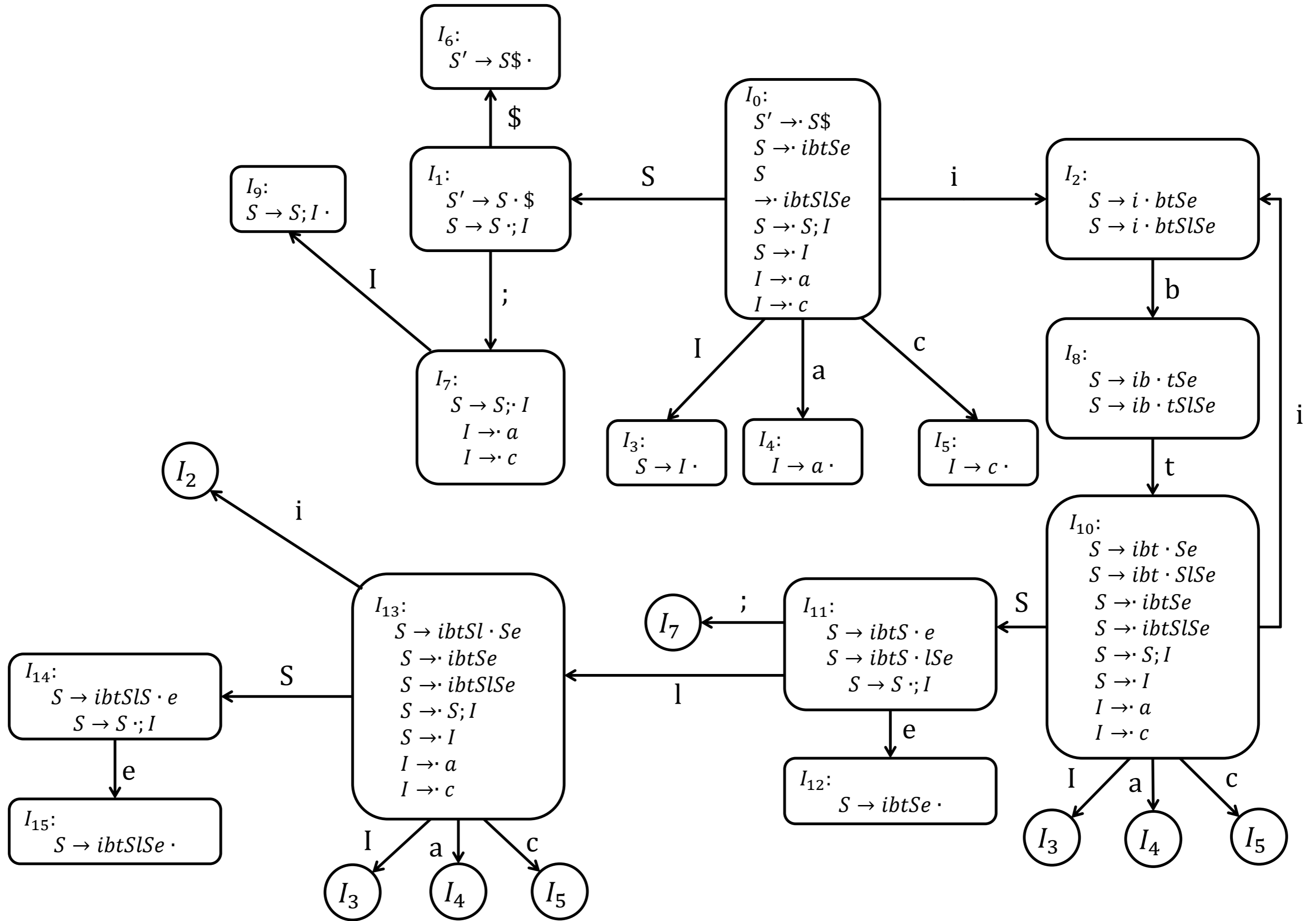


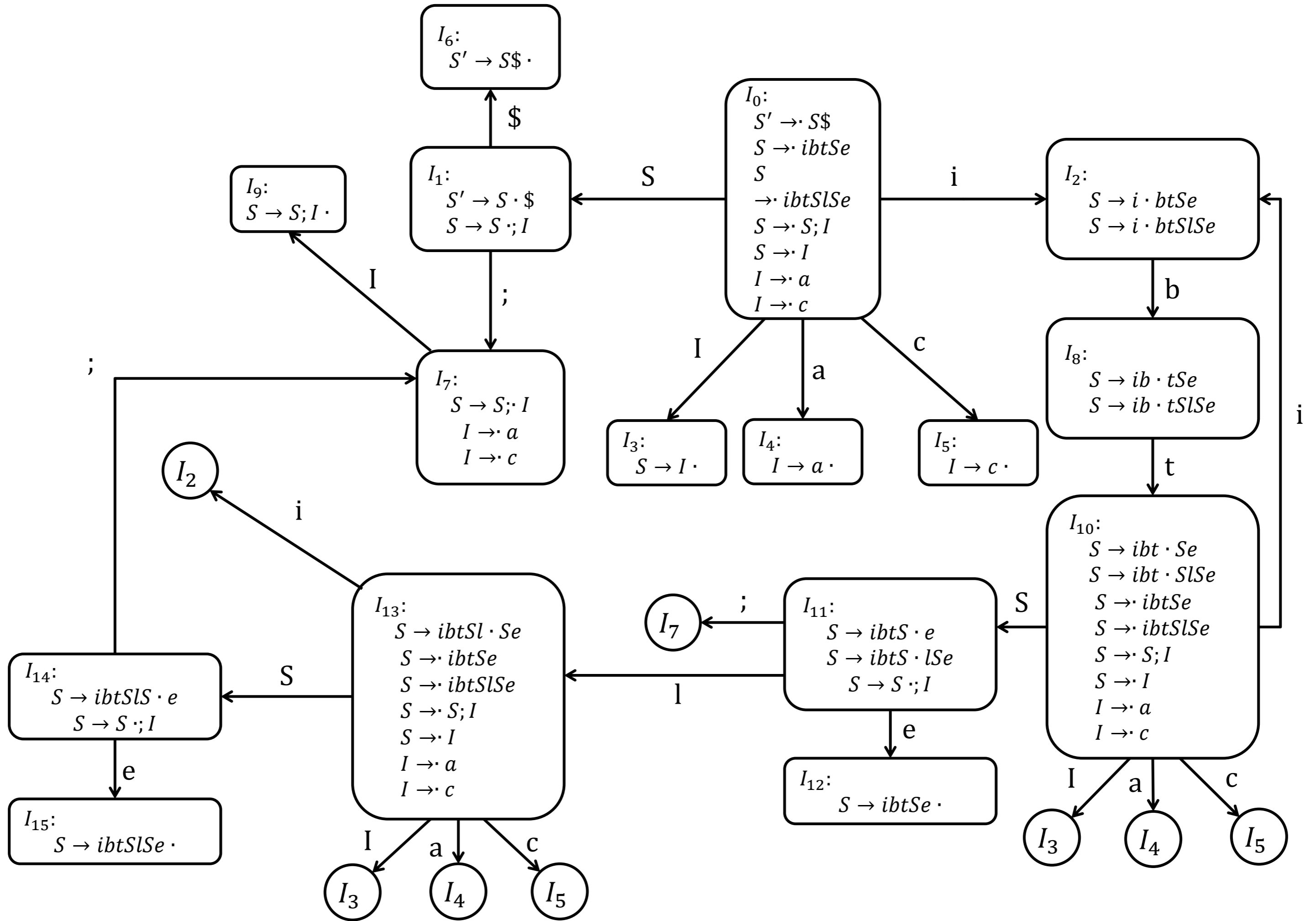


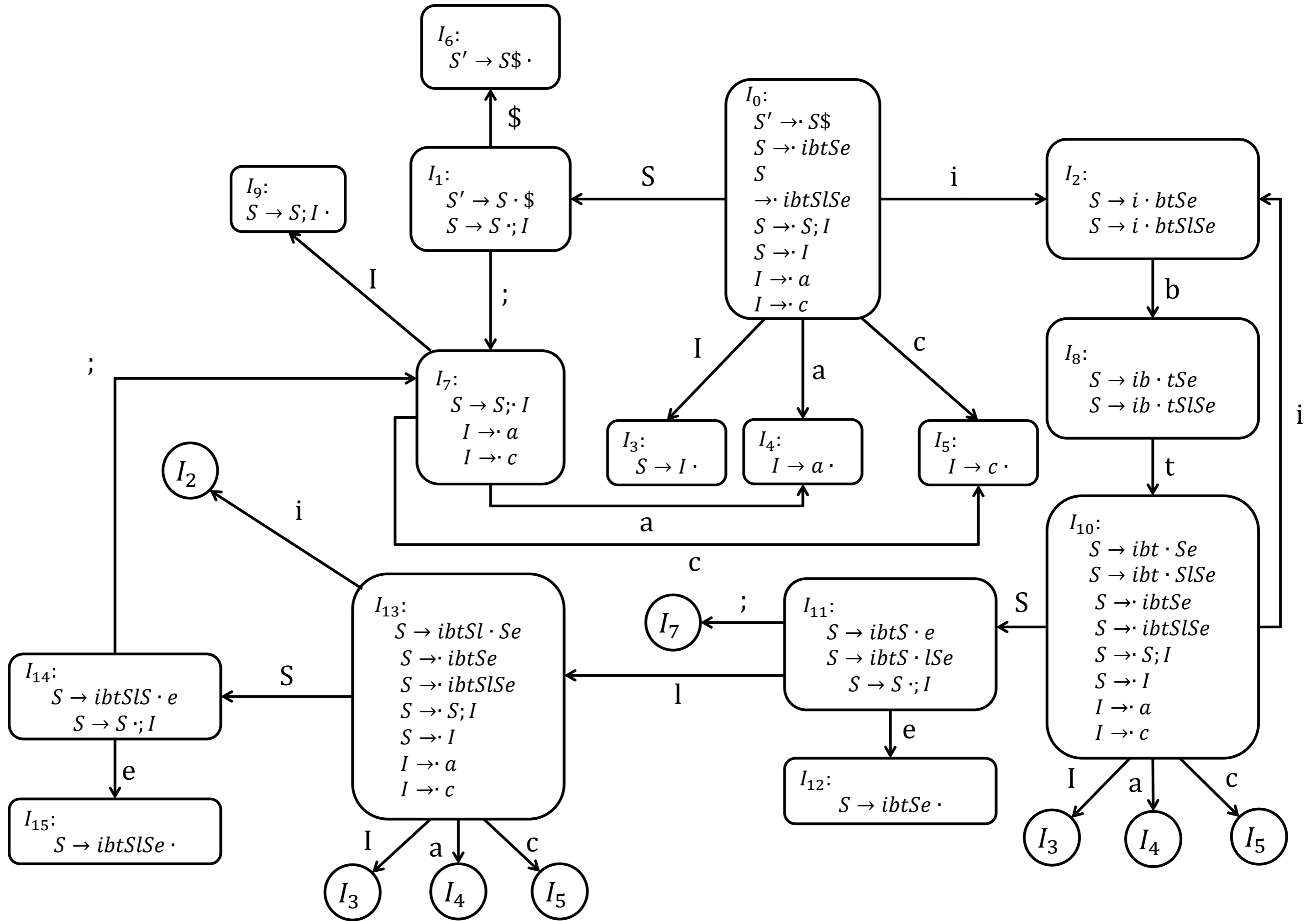
















ENTRADA	PILA	ACCIÓN
ibtalce\$	0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8

<b>ENTRADA</b>	<b>PILA</b>	<b>ACCIÓN</b>
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	

<b>ENTRADA</b>	<b>PILA</b>	<b>ACCIÓN</b>
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10

<b>ENTRADA</b>	<b>PILA</b>	<b>ACCIÓN</b>
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	



<b>ENTRADA</b>	<b>PILA</b>	<b>ACCIÓN</b>
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4

<b>ENTRADA</b>	<b>PILA</b>	<b>ACCIÓN</b>
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	



ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I



ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	reduce 2: S $\rightarrow$ ibtSlSe

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	reduce 2: S $\rightarrow$ ibtSlSe
\$	0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	reduce 2: S $\rightarrow$ ibtSlSe
\$	1,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	reduce 2: S $\rightarrow$ ibtSlSe
\$	1,0	shift 6



ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	reduce 2: S $\rightarrow$ ibtSlSe
\$	1,0	shift 6
\$	6,1,0	

ENTRADA	PILA	ACCIÓN
ibtalce\$	0	shift 2
btalce\$	2,0	shift 8
talce\$	8,2,0	shift 10
alce\$	10,8,2,0	shift 4
lce\$	4,10,8,2,0	reduce 5: I $\rightarrow$ a
lce\$	3,10,8,2,0	reduce 4: S $\rightarrow$ I
lce\$	11,10,8,2,0	shift 13
ce\$	13,11,10,8,2,0	shift 5
e\$	5, 13,11,10,8,2,0	reduce 6: I $\rightarrow$ c
e\$	3,13,11,10,8,2,0	reduce 4: S $\rightarrow$ I
e\$	14,13,11,10,8,2,0	shift 15
\$	15, 14,13,11,10,8,2,0	reduce 2: S $\rightarrow$ ibtSlSe
\$	1,0	shift 6
\$	6,1,0	ACEPTO