

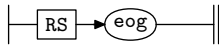
1. LR1_SP2 grammar.

A LR1 GRAMMAR FROM DAVID SPECTOR SIGPLAN VOL 23 NO 12 DEC/88

2. Fsm Clr1_sp2_fsm class.

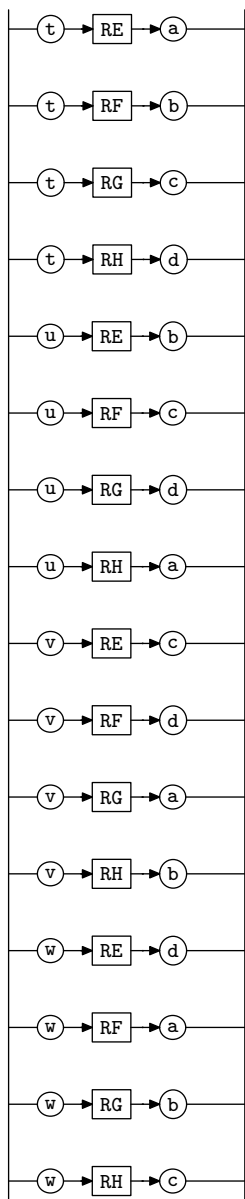
3. Rlr1_sp2 rule.

Rlr1_sp2



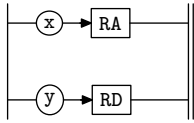
4. RS rule.

RS



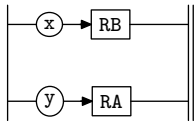
5. RE rule.

RE



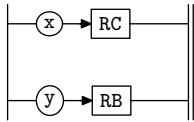
6. RF rule.

RF



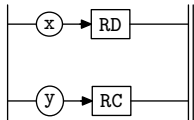
7. RG rule.

RG



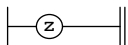
8. RH rule.

RH



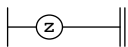
9. RA rule.

RA



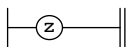
10. RB rule.

RB



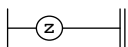
11. RC rule.

RC



12. RD rule.

RD



13. First Set Language for O_2^{linker} .

```
/*
  File: lr1_sp2.fsc
  Date and Time: Tue Sep 16 13:30:26 2014
*/
transitive      n
grammar-name    "lr1_sp2"
name-space      "NS_lr1_sp2"
thread-name     "Clr1_sp2_fsm"
monolithic      y
file-name       "lr1_sp2.fsc"
no-of-T         569
list-of-native-first-set-terminals 1
  raw_t
end-list-of-native-first-set-terminals
list-of-transitive-threads 0
end-list-of-transitive-threads
list-of-used-threads 0
end-list-of-used-threads
fsm-comments
"test out lr1"
```

14. Lr1 State Network.

\Rightarrow						State: 1 state type: ^s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	RS		2	3	1	t			1 2 8
c	RS		2	4	1	t			1 2 10
c	RS		2	1	1	t			1 2 4
c	RS		2	2	1	t			1 2 6
c	RS		2	5	1	u			1 11 13
c	RS		2	6	1	u			1 11 15
c	RS		2	8	1	u			1 11 19
c	RS		2	7	1	u			1 11 17
c	RS		2	9	1	v			1 20 22
c	RS		2	10	1	v			1 20 24
c	RS		2	12	1	v			1 20 28
c	RS		2	11	1	v			1 20 26
c	RS		2	13	1	w			1 29 31
c	RS		2	14	1	w			1 29 33
c	RS		2	15	1	w			1 29 35
c	RS		2	16	1	w			1 29 37
c	Rlr1.sp2		1	1	1	RS <u>eog</u>			1 38 39

\Rightarrow^t						State: 2 state type: ^s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	RE		3	1	1	x			2 40 42
c	RH		6	1	1	x			2 40 45
c	RF		4	1	1	x			2 40 43
c	RG		5	1	1	x			2 40 44
c	RE		3	2	1	y			2 46 51
c	RG		5	2	1	y			2 46 49
c	RF		4	2	1	y			2 46 48
c	RH		6	2	1	y			2 46 50
t	RS		2	1	2	RE <u>a</u>			1 3 4
t	RS		2	2	2	RF <u>b</u>			1 5 6
t	RS		2	3	2	RG <u>c</u>			1 7 8
t	RS		2	4	2	RH <u>d</u>			1 9 10

\Rightarrow^{RE}						State: 3 state type: ^s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	RS		2	1	3	a			1 4 4

\Rightarrow^a						State: 4 state type: ^r			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	RS		2	1	4				1 0 4 1

\Rightarrow^{RF}						State: 5 state type: ^s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	RS		2	2	3	b			1 6 6

\Rightarrow^b						State: 6 state type: ^r			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	RS		2	2	4				1 0 6 1

\Rightarrow^{RG}						State: 7 state type: s		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	3	3	c		1 8 8
\Rightarrow^c							State: 8 state type: r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	3	4			1 0 8 1
\Rightarrow^{RH}							State: 9 state type: s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	4	3	d		1 10 10
\Rightarrow^d							State: 10 state type: r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	4	4			1 0 10 1
\Rightarrow^u							State: 11 state type: s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
c RE			3	1	1	x		11 52 53
c RH			6	1	1	x		11 52 56
c RF			4	1	1	x		11 52 54
c RG			5	1	1	x		11 52 55
c RE			3	2	1	y		11 57 62
c RG			5	2	1	y		11 57 60
c RF			4	2	1	y		11 57 59
c RH			6	2	1	y		11 57 61
t RS			2	5	2	RE \underline{b}		1 12 13
t RS			2	6	2	RF \underline{c}		1 14 15
t RS			2	7	2	RG \underline{d}		1 16 17
t RS			2	8	2	RH \underline{a}		1 18 19
\Rightarrow^{RE}							State: 12 state type: s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	5	3	b		1 13 13
\Rightarrow^b							State: 13 state type: r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	5	4			1 0 13 1
\Rightarrow^{RF}							State: 14 state type: s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	6	3	c		1 15 15
\Rightarrow^c							State: 15 state type: r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	6	4			1 0 15 1
\Rightarrow^{RG}							State: 16 state type: s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t RS			2	7	3	d		1 17 17

\Rightarrow^d						State: 17 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	7	4			1 0 17 1
\Rightarrow^{RH}						State: 18 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	8	3 a			1 19 19
\Rightarrow^a						State: 19 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	8	4			1 0 19 1
\Rightarrow^v						State: 20 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
c RE			3	1	1 x			20 63 64
c RH			6	1	1 x			20 63 67
c RF			4	1	1 x			20 63 65
c RG			5	1	1 x			20 63 66
c RE			3	2	1 y			20 68 73
c RG			5	2	1 y			20 68 71
c RF			4	2	1 y			20 68 70
c RH			6	2	1 y			20 68 72
t RS			2	9	2 RE <u>c</u>			1 21 22
t RS			2	10	2 RF <u>d</u>			1 23 24
t RS			2	11	2 RG <u>a</u>			1 25 26
t RS			2	12	2 RH <u>b</u>			1 27 28
\Rightarrow^{RE}						State: 21 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	9	3 c			1 22 22
\Rightarrow^c						State: 22 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	9	4			1 0 22 1
\Rightarrow^{RF}						State: 23 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	10	3 d			1 24 24
\Rightarrow^d						State: 24 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	10	4			1 0 24 1
\Rightarrow^{RG}						State: 25 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	11	3 a			1 26 26
\Rightarrow^a						State: 26 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	11	4			1 0 26 1

\Rightarrow^{RH}						State: 27 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	12	3 b			1 28 28
\Rightarrow^b						State: 28 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	12	4			1 0 28 1
\Rightarrow^w						State: 29 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
c RE			3	1	1 x			29 74 75
c RH			6	1	1 x			29 74 78
c RF			4	1	1 x			29 74 76
c RG			5	1	1 x			29 74 77
c RE			3	2	1 y			29 79 83
c RG			5	2	1 y			29 79 81
c RF			4	2	1 y			29 79 80
c RH			6	2	1 y			29 79 82
t RS			2	13	2 RE <u>d</u>			1 30 31
t RS			2	14	2 RF <u>a</u>			1 32 33
t RS			2	15	2 RG <u>b</u>			1 34 35
t RS			2	16	2 RH <u>c</u>			1 36 37
\Rightarrow^{RE}						State: 30 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	13	3 d			1 31 31
\Rightarrow^d						State: 31 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	13	4			1 0 31 1
\Rightarrow^{RF}						State: 32 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	14	3 a			1 33 33
\Rightarrow^a						State: 33 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	14	4			1 0 33 1
\Rightarrow^{RG}						State: 34 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	15	3 b			1 35 35
\Rightarrow^b						State: 35 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	15	4			1 0 35 1
\Rightarrow^{RH}						State: 36 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	16	3 c			1 37 37

\Rightarrow^c					State: 37 state type: r		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t RS			2	16 4			1 0 37 1
\Rightarrow^{RS}					State: 38 state type: s		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t Rlr1_sp2			1	1 2 eog			1 39 39
\Rightarrow^{eog}					State: 39 state type: r		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t Rlr1_sp2			1	1 3			1 0 39 2
\Rightarrow^x					State: 40 state type: s		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
c RA			7	1 1 z			40 41 41
c RB			8	1 1 z			40 41 41
c RC			9	1 1 z			40 41 41
c RD			10	1 1 z			40 41 41
t RE			3	1 2 RA			2 42 42
t RF			4	1 2 RB			2 43 43
t RG			5	1 2 RC			2 44 44
t RH			6	1 2 RD			2 45 45
\Rightarrow^z					State: 41 state type: r^2		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t RA			7	1 2			40 0 41 3
t RB			8	1 2			40 0 41 4
t RC			9	1 2			40 0 41 5
t RD			10	1 2			40 0 41 6
\Rightarrow^{RA}					State: 42 state type: r		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t RE			3	1 3			2 0 42 3
\Rightarrow^{RB}					State: 43 state type: r		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t RF			4	1 3			2 0 43 4
\Rightarrow^{RC}					State: 44 state type: r		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t RG			5	1 3			2 0 44 5
\Rightarrow^{RD}					State: 45 state type: r		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
t RH			6	1 3			2 0 45 6
\Rightarrow^y					State: 46 state type: s		
\leftarrow	rule	\rightarrow	R#	sr# Po	subrule element	\rightarrow	Brn Gto Red LA
c RA			7	1 1 z			46 47 47
c RB			8	1 1 z			46 47 47
c RC			9	1 1 z			46 47 47

c RD		10	1	1	z		46	47	47				
t RF		4	2	2	RA		2	48	48				
t RG		5	2	2	RB		2	49	49				
t RH		6	2	2	RC		2	50	50				
t RE		3	2	2	RD		2	51	51				
\Rightarrow^z						State: 47 state type: r^2							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RA			7	1	2					46	0	47	4
t RB			8	1	2					46	0	47	5
t RC			9	1	2					46	0	47	6
t RD			10	1	2					46	0	47	3
\Rightarrow^{RA}						State: 48 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RF			4	2	3					2	0	48	4
\Rightarrow^{RB}						State: 49 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RG			5	2	3					2	0	49	5
\Rightarrow^{RC}						State: 50 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RH			6	2	3					2	0	50	6
\Rightarrow^{RD}						State: 51 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RE			3	2	3					2	0	51	3
\Rightarrow^x						State: 52 state type: s							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
c RA			7	1	1	z				52	47	47	
c RB			8	1	1	z				52	47	47	
c RC			9	1	1	z				52	47	47	
c RD			10	1	1	z				52	47	47	
t RE			3	1	2	RA				11	53	53	
t RF			4	1	2	RB				11	54	54	
t RG			5	1	2	RC				11	55	55	
t RH			6	1	2	RD				11	56	56	
\Rightarrow^{RA}						State: 53 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RE			3	1	3					11	0	53	4
\Rightarrow^{RB}						State: 54 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RF			4	1	3					11	0	54	5
\Rightarrow^{RC}						State: 55 state type: r							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t RG			5	1	3					11	0	55	6

\Rightarrow^{RD}						State: 56 state type: r		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RH		6	1	3			11 0 56 3
\Rightarrow^y						State: 57 state type: s		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
c	RA		7	1	1	z		57 58 58
c	RB		8	1	1	z		57 58 58
c	RC		9	1	1	z		57 58 58
c	RD		10	1	1	z		57 58 58
t	RF		4	2	2	RA		11 59 59
t	RG		5	2	2	RB		11 60 60
t	RH		6	2	2	RC		11 61 61
t	RE		3	2	2	RD		11 62 62
\Rightarrow^z						State: 58 state type: r^2		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RA		7	1	2			57 0 58 5
t	RB		8	1	2			57 0 58 6
t	RC		9	1	2			57 0 58 3
t	RD		10	1	2			57 0 58 4
\Rightarrow^{RA}						State: 59 state type: r		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RF		4	2	3			11 0 59 5
\Rightarrow^{RB}						State: 60 state type: r		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RG		5	2	3			11 0 60 6
\Rightarrow^{RC}						State: 61 state type: r		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RH		6	2	3			11 0 61 3
\Rightarrow^{RD}						State: 62 state type: r		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RE		3	2	3			11 0 62 4
\Rightarrow^x						State: 63 state type: s		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
c	RA		7	1	1	z		63 58 58
c	RB		8	1	1	z		63 58 58
c	RC		9	1	1	z		63 58 58
c	RD		10	1	1	z		63 58 58
t	RE		3	1	2	RA		20 64 64
t	RF		4	1	2	RB		20 65 65
t	RG		5	1	2	RC		20 66 66
t	RH		6	1	2	RD		20 67 67
\Rightarrow^{RA}						State: 64 state type: r		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA

t RE		3	1	3				20	0	64	5
\Rightarrow^{RB}											
←	rule	→	R#	sr#	Po	←	State: 65 state type: r				
t RF			4	1	3		subrule element	→	Brn	Gto	Red LA
									20	0	65 6
\Rightarrow^{RC}											
←	rule	→	R#	sr#	Po	←	State: 66 state type: r				
t RG			5	1	3		subrule element	→	Brn	Gto	Red LA
									20	0	66 3
\Rightarrow^{RD}											
←	rule	→	R#	sr#	Po	←	State: 67 state type: r				
t RH			6	1	3		subrule element	→	Brn	Gto	Red LA
									20	0	67 4
\Rightarrow^y											
←	rule	→	R#	sr#	Po	←	State: 68 state type: s				
c RA			7	1	1 z		subrule element	→	Brn	Gto	Red LA
c RB			8	1	1 z				68	69	69
c RC			9	1	1 z				68	69	69
c RD			10	1	1 z				68	69	69
t RF			4	2	2 RA				20	70	70
t RG			5	2	2 RB				20	71	71
t RH			6	2	2 RC				20	72	72
t RE			3	2	2 RD				20	73	73
\Rightarrow^z											
←	rule	→	R#	sr#	Po	←	State: 69 state type: r^2				
t RA			7	1	2		subrule element	→	Brn	Gto	Red LA
t RB			8	1	2				68	0	69 6
t RC			9	1	2				68	0	69 3
t RD			10	1	2				68	0	69 4
									68	0	69 5
\Rightarrow^{RA}											
←	rule	→	R#	sr#	Po	←	State: 70 state type: r				
t RF			4	2	3		subrule element	→	Brn	Gto	Red LA
									20	0	70 6
\Rightarrow^{RB}											
←	rule	→	R#	sr#	Po	←	State: 71 state type: r				
t RG			5	2	3		subrule element	→	Brn	Gto	Red LA
									20	0	71 3
\Rightarrow^{RC}											
←	rule	→	R#	sr#	Po	←	State: 72 state type: r				
t RH			6	2	3		subrule element	→	Brn	Gto	Red LA
									20	0	72 4
\Rightarrow^{RD}											
←	rule	→	R#	sr#	Po	←	State: 73 state type: r				
t RE			3	2	3		subrule element	→	Brn	Gto	Red LA
									20	0	73 5
\Rightarrow^x											
←	rule	→	R#	sr#	Po	←	State: 74 state type: s				
c RA			7	1	1 z		subrule element	→	Brn	Gto	Red LA
c RB			8	1	1 z				74	69	69
									74	69	69

c RC		9	1	1	z		74	69	69
c RD		10	1	1	z		74	69	69
t RE		3	1	2	RA		29	75	75
t RF		4	1	2	RB		29	76	76
t RG		5	1	2	RC		29	77	77
t RH		6	1	2	RD		29	78	78
\Rightarrow^{RA}									
←	rule	→	R#	sr#	Po	←	State: 75 state type: r		
t RE			3	1	3		subrule element	→	Brn Gto Red LA
								29	0 75 6
\Rightarrow^{RB}									
←	rule	→	R#	sr#	Po	←	State: 76 state type: r		
t RF			4	1	3		subrule element	→	Brn Gto Red LA
								29	0 76 3
\Rightarrow^{RC}									
←	rule	→	R#	sr#	Po	←	State: 77 state type: r		
t RG			5	1	3		subrule element	→	Brn Gto Red LA
								29	0 77 4
\Rightarrow^{RD}									
←	rule	→	R#	sr#	Po	←	State: 78 state type: r		
t RH			6	1	3		subrule element	→	Brn Gto Red LA
								29	0 78 5
\Rightarrow^y									
←	rule	→	R#	sr#	Po	←	State: 79 state type: s		
c RA			7	1	1	z	subrule element	→	Brn Gto Red LA
c RB			8	1	1	z		79	41 41
c RC			9	1	1	z		79	41 41
c RD			10	1	1	z		79	41 41
t RF			4	2	2	RA		29	80 80
t RG			5	2	2	RB		29	81 81
t RH			6	2	2	RC		29	82 82
t RE			3	2	2	RD		29	83 83
\Rightarrow^{RA}									
←	rule	→	R#	sr#	Po	←	State: 80 state type: r		
t RF			4	2	3		subrule element	→	Brn Gto Red LA
								29	0 80 3
\Rightarrow^{RB}									
←	rule	→	R#	sr#	Po	←	State: 81 state type: r		
t RG			5	2	3		subrule element	→	Brn Gto Red LA
								29	0 81 4
\Rightarrow^{RC}									
←	rule	→	R#	sr#	Po	←	State: 82 state type: r		
t RH			6	2	3		subrule element	→	Brn Gto Red LA
								29	0 82 5
\Rightarrow^{RD}									
←	rule	→	R#	sr#	Po	←	State: 83 state type: r		
t RE			3	2	3		subrule element	→	Brn Gto Red LA
								29	0 83 6

15. Index.

eog: [3](#).
LR1_SP2: [1](#).
RA: [5](#), [6](#).
RA: [9](#).
RB: [6](#), [7](#).
RB: [10](#).
RC: [7](#), [8](#).
RC: [11](#).
RD: [5](#), [8](#).
RD: [12](#).
RE: [4](#).
RE: [5](#).
RF: [4](#).
RF: [6](#).
RG: [4](#).
RG: [7](#).
RH: [4](#).
RH: [8](#).
Rlr1_sp2: [3](#).
RS: [3](#).
RS: [4](#).

lr1_sp2 Grammar

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test out lr1

	Section	Page
LR1_SP2 grammar	1	1
Fsm Clr1_sp2_fsm class	2	1
<i>Rlr1_sp2</i> rule	3	1
RS rule	4	1
RE rule	5	2
RF rule	6	2
RG rule	7	2
RH rule	8	2
RA rule	9	2
RB rule	10	2
RC rule	11	2
RD rule	12	2
First Set Language for O_2^{linker}	13	3
Lr1 State Network	14	4
Index	15	13