

1. Grammar symbols: Used cross reference.

Reference of each grammar's symbol used within each rule's productions. The index uses the tripple: rule name, its subrule no, and the symbol's position within the symbol string.

2. Ra:.

Rs1 1.2 Rs1 3.2

3. Rb:.

Ra 1.1

4. Rs1:.

Rs 1.1

5. a:.

Rs1 1.1 Rs1 2.1

6. b:.

Rs1 3.1 Rs1 4.1

7. c:.

Rs1 1.3 Rs1 4.3

8. d:.

Rs1 2.3 Rs1 3.3

9. eog:.

Rs 1.2

10. g:.

Rs1 2.2 Rs1 4.2 Rb 1.1

11. Grammar Rules's First Sets.**12. R_s # in set: 2.**

a b

13. R_{s1} # in set: 2.

a b

14. R_a # in set: 1.

g

15. R_b # in set: 1.

g

16. LR State Network.

List of productions with their derived LR state lists. Their subrule number and symbol string indicates the specific production being derived. The “▷” symbol indicates the production's list of derived states from its closed state. Multiple lists within a production indicate 1 of 2 things:

1) derived string that could not be merged due to a lr(1) conflict

2) partially derived string merged into another derived lr states

A partially derived string is indicated by the “merged into” symbol ↗ used as a superscript along with the merged into state number.

17. R_s .

1 R_{s1} eog
▷ 1 12 13

18. R_{s1} .

1 a R_a c
▷ 1 2 5 6
2 a g d
▷ 1 2 3 4
3 b R_a d
▷ 1 7 10 11
4 b g c
▷ 1 7 8 9

19. R_a .

1 R_b
▷ 2 14
▷ 7 15

20. R_b .

1 g
▷ 2 3
▷ 7 8

21. List of reducing states.

The following legend indicates the type of reducing state.

Points 2–4 are states that must meet the lr(1) condition:

- 1) r — only 1 production reducing
- 2) r^2 — 2 or more reducing productions
- 3) s/r — shift and 1 reducing production
- 4) s/r^2 — shift and multiple reducing productions

$\subset 3^{s/r} 4^r 6^r 8^{s/r} 9^r 11^r 13^r 14^r 15^r$

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23. Common Follow sets.

24. LA set: 1.

c.

25. LA set: 2.

eog.

26. LA set: 3.

d.

27. LA set: 4.

eolr.

28. Index.

R_1 --- Rs : 17.

R_2 --- $Rs1$: 18.

R_3 --- Ra : 19.

R_4 --- Rb : 20.

Ra : 14.

Rb : 15.

Rs : 12.

$Rs1$: 13.

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Date: January 2, 2015 at 11:26

File: dp_1_idx.w

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