

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. # NULL:.

RNULL 1.2

3. # op:.

Rmust_directive 1.2 Rdirective 1.2

4. - > :.

Rvector 1.2

5. :::

Rdbl_colon 1.2

6. NS_cweb_or_c_k::TH_cweb_or_c_k:.

Rdirective_cweb_k.epi 2.3 Rweb_k.epi 1.3

7. NS_dbl_colon::TH_dbl_colon:.

Rdbl_colon 1.3

8. NS_identifier::TH_identifier:.

RNULL 1.3 Rth_name 1.3 Rmust_directive 1.3 Rdirective 1.3

9. NS_lint_balls::TH_lint_balls:.

Rlint.epi 1.3

10. NS_o2_sdc::TH_o2_sdc:.

Rsyntax_code 1.3

11. NS_parallel_oper::TH_parallel_oper:.

Rstart_thread 1.3

12. NS_rhs_bnd::TH_rhs_bnd:.

Rmust_eos 1.3 Rcalled_thd.eos 1.3 Rcalled_proc.eos 1.3

13. NS_rhs_component::TH_rhs_component:.

RForRcomponent 1.3 Rchained_dispatcher 1.3

14. NS_rtn_component::TH_rtn_component::

Rrtnd_T 1.3

15. NS_subrule_vector::TH_subrule_vector::

Rvector 1.3

16. NULL thread::

Rrtnd_T 2.3 Rrtnd_T 4.3 Rns 1.3 Rns 2.3 Rdbl_colon 2.3 Rth_name 2.3 Rcalled_proc_op 1.3 RTorRcomponent 2.3 RTorRcomponent 3.3 Rchained_dispatcher 2.3 Rchained_dispatcher 3.3 Rmust_eos 3.3 Rmust_directive 2.3 Rdirective 2.3 Rsyntax_code 2.3 Rdirective_cweb_k_epi 3.3 Rdirective_cweb_k_epi 4.3 Rweb_k_epi 2.3 Rweb_k_epi 3.3

17. RNULL::

Rcalled_thread 2.1 Rcalled_proc_name 2.1

18. RTorRcomponent::

RTorRcomponents 1.1 RTorRcomponents 2.2

19. RTorRcomponents::

RTorRcomponents_epi 2.1 RTorRcomponents 2.1

20. RTorRcomponents_epi::

Rrhs_expr 1.1

21. Rbal_called_proc_expr::

Rrhs_expr 4.3 Rrhs_expr 5.3

22. Rbal_thread_expr::

Rrhs_expr 2.3 Rrhs_expr 3.3

23. Rcalled_proc_eos::

Rrhs_expr 4.6 Rrhs_expr 5.8

24. Rcalled_proc_name::

Rbal_called_proc_expr 1.3

25. Rcalled_proc_op::

Rrhs_expr 4.1 Rrhs_expr 5.1

26. Rcalled_thd_eos:.

Rrhs_expr 2.6 Rrhs_expr 3.8

27. Rcalled_thread:.

Rbal_thread_expr 1.3

28. Rchained_dispatcher:.

Rrhs_expr 3.6 Rrhs_expr 5.6

29. Rclose_brace:.

Rpotential_directives 2.5

30. Rcommon_comments:.

Rsubrule_def 1.3

31. Rweb_k_epi:.

Rcommon_comments 1.2

32. Rdbl_colon:.

Rcalled_thread 1.2 Rcalled_proc_name 1.2

33. Rdirective:.

Rmaybe_directive_phrase 1.3 Rmaybe_directive_phrase 2.1 Rdirective_phrase 1.4

34. Rdirective_cweb_k_epi:.

Rmust_directive_phrase 1.1 Rmaybe_directive_phrase 1.1 Rdirective_phrase 1.2

35. Rlint_epi:.

Rcommon_comments 1.1 Rcommon_comments 1.3 Rrhs_expr 1.5 Rrhs_expr 2.2 Rrhs_expr 2.4 Rrhs_expr 2.7 Rrhs_expr 2.9 Rrhs_expr 3.2 Rrhs_expr 3.4 Rrhs_expr 3.7 Rrhs_expr 3.9 Rrhs_expr 3.11 Rrhs_expr 4.2 Rrhs_expr 4.4 Rrhs_expr 4.7 Rrhs_expr 4.9 Rrhs_expr 5.2 Rrhs_expr 5.4 Rrhs_expr 5.7 Rrhs_expr 5.9 Rrhs_expr 5.11 Rbal_thread_expr 1.2 Rbal_called_proc_expr 1.2 RTorRcomponents 1.2 RTorRcomponents 2.3 Rpotential_directives 2.2 Rpotential_directives 2.6 Rmust_directive_phrase 1.2 Rmust_directive_phrase 1.5 Rmaybe_directive_phrase 1.2 Rmaybe_directive_phrase 1.5 Rmaybe_directive_phrase 2.3 Rdirective_phrase 1.1 Rdirective_phrase 1.3 Rdirective_phrase 1.6

36. Rmaybe_directive_phrase:.

Rmaybe_directive_phrases 1.1 Rmaybe_directive_phrases 2.2

37. Rmaybe_directive_phrases:.

Rmaybe_more_directives 2.1 Rmaybe_directive_phrases 2.1

38. Rmaybe_more_directives::

Rpotential_directives 2.4

39. Rmust_directive::

Rmust_directive_phrase 1.3

40. Rmust_directive_phrase::

Rpotential_directives 2.3

41. Rmust_eos::

Rrhs_expr 1.3

42. Rns::

Rcalled_thread 1.1 Rcalled_proc_name 1.1

43. Rpotential_codeblk::

Rrhs_expr 1.4 Rrhs_expr 2.8 Rrhs_expr 3.10 Rrhs_expr 4.8 Rrhs_expr 5.10

44. Rpotential_directives::

Rpotential_codeblk 1.1

45. Rrhs_expr::

Rsubrule_def 1.4

46. Rrtnd_T::

Rbal_thread_expr 1.1 Rbal_called_proc_expr 1.1

47. Rstart_thread::

Rrhs_expr 2.1 Rrhs_expr 3.1

48. Rsyntax_code::

Rmust_directive_phrase 1.4 Rmaybe_directive_phrase 1.4 Rmaybe_directive_phrase 2.2 Rdirective_phrase 1.5

49. Rth_name::

Rcalled_thread 1.3 Rcalled_proc_name 1.3

50. Rvector::

Rsubrule_def 1.1

51. T-in-stbl:.

Rrtnd_T 1.2 RTorRcomponent 2.2 Rchained_dispatcher 2.2

52. ϵ :.

RTorRcomponents_epi 1.1 Rpotential_directives 1.1 Rmaybe_more_directives 1.1 Rdirective_cweb_k_epi 1.1
Rcweb_k_epi 4.1

53. comment:.

Rdirective_cweb_k_epi 4.2 Rcweb_k_epi 3.2

54. comment-overrun:.

Rdirective_cweb_k_epi 3.2 Rcweb_k_epi 2.2

55. cweb-comment:.

Rdirective_cweb_k_epi 2.2 Rcweb_k_epi 1.2

56. eosubrule:.

Rmust_eos 1.2 Rcalled_thd_eos 1.2 Rcalled_proc_eos 1.2

57. identifier:.

Rns 1.2 Rth_name 1.2

58. lint:.

Rlint_epi 1.2

59. rule-in-stbl:.

RTorRcomponent 1.2 Rchained_dispatcher 1.2

60. syntax-code:.

Rsyntax_code 1.2

61. {:.

Rpotential_directives 2.1

62. |.:.

Rsubrule_def 1.2 Rrhs_expr 1.2 Rrhs_expr 2.5 Rrhs_expr 3.5 Rrhs_expr 4.5 Rrhs_expr 5.5 Rlint_epi 2.1

63. |?:.

Rrtnd_T 2.2 Rrtnd_T 3.1 Rns 2.2 Rns 3.1 Rdbl_colon 2.2 Rdbl_colon 3.1 Rth_name 2.2 Rth_name 3.1 RTorRcomponent 3.2 Rchained_dispatcher 3.2 Rmust_eos 2.1 Rmust_eos 3.2 Rcalled_thd_eos 2.1 Rcalled_proc_eos 2.1 Rmust_directive 2.2 Rmust_directive 3.1 Rclose_brace 1.1 Rdirective 2.2 Rsyntax_code 2.2

64. |τ|:

Rcalled_proc_op 1.2

65. |||:

Rvector 1.1 Rstart_thread 1.1 Rstart_thread 1.2 Rrtnd_T 1.1 Rrtnd_T 2.1 Rrtnd_T 4.1 Rrtnd_T 4.2 RNULL 1.1 Rns 1.1 Rns 2.1 Rdbl_colon 1.1 Rdbl_colon 2.1 Rth_name 1.1 Rth_name 2.1 Rcalled_proc_op 1.1 RTorRcomponent 1.1 RTorRcomponent 2.1 RTorRcomponent 3.1 Rchained_dispatcher 1.1 Rchained_dispatcher 2.1 Rchained_dispatcher 3.1 Rmust_eos 1.1 Rmust_eos 3.1 Rcalled_thd_eos 1.1 Rcalled_proc_eos 1.1 Rmust_directive 1.1 Rmust_directive 2.1 Rdirective 1.1 Rdirective 2.1 Rsyntax_code 1.1 Rsyntax_code 2.1 Rlint_epi 1.1 Rdirective_cweb_k_epi 2.1 Rdirective_cweb_k_epi 3.1 Rdirective_cweb_k_epi 4.1 Rweb_k_epi 1.1 Rweb_k_epi 2.1 Rweb_k_epi 3.1

66. }:

Rclose_brace 2.1

67. Grammar Rules's First Sets.

68. *Rsubrule_def* # in set: 1.
|||

69. *Rvector* # in set: 1.
|||

70. *Rcommon_comments* # in set: 2.
|. | |||

71. *Rrhs_expr* # in set: 2.
|. | |||

72. *Rstart_thread* # in set: 1.
|||

73. *Rbal_thread_expr* # in set: 2.
|? | |||

74. *Rrtnd_T* # in set: 2.
|? | |||

75. *Rcalled_thread* # in set: 2.
|? | |||

76. RNULL # in set: 1.
|||

77. *Rns* # in set: 2.
|? | |||

78. *Rdbl_colon* # in set: 2.
|? | |||

79. *Rth_name* # in set: 2.
|? | |||

80. *Rcalled_proc_op* # in set: 1.
|||

81. *Rbal_called_proc_expr* # in set: 2.
|? | |||

82. *Rcalled_proc_name* # in set: 2.
|? | |||

83. *RTorRcomponents_epi^ε* # in set: 1.
|||

84. *RTorRcomponents* # in set: 1.
|||

85. *RTorRcomponent* # in set: 1.
| | |
86. *Rchained_dispatcher* # in set: 1.
| | |
87. *Rmust_eos* # in set: 2.
| ? | | | |
88. *Rcalled_thd_eos* # in set: 2.
| ? | | | |
89. *Rcalled_proc_eos* # in set: 2.
| ? | | | |
90. *Rpotential_codeblk*^ε # in set: 1.
{
91. *Rpotential_directives*^ε # in set: 1.
{
92. *Rmust_directive_phrase* # in set: 2.
| . | | | |
93. *Rmust_directive* # in set: 2.
| ? | | | |
94. *Rclose_brace* # in set: 2.
| ? | }
95. *Rmaybe_more_directives*^ε # in set: 2.
| . | | | |
96. *Rmaybe_directive_phrases* # in set: 2.
| . | | | |
97. *Rmaybe_directive_phrase* # in set: 2.
| . | | | |
98. *Rdirective_phrase* # in set: 2.
| . | | | |
99. *Rdirective* # in set: 1.
| | |
100. *Rsyntax_code* # in set: 1.
| | |
101. *Rlint_epi* # in set: 2.
| . | | | |
102. *Rdirective_cweb_k_epi*^ε # in set: 1.
| | |

103. Rweb.k.epi^ε # in set: 1.

|||

104. 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.

105. Rsubrule_def.

```
1 Rvector |.| Rcommon_comments Rrhs_expr
```

```
▷ 1 4 5 6 13
```

106. Rvector.

```
1 ||| - > NS_subrule_vector::TH_subrule_vector
```

```
▷ 1 2 3
```

107. Rcommon_comments.

```
1 Rlint_epi Rweb.k.epi Rlint_epi
```

```
▷ 5 57 58 59
```

108. Rrhs_expr.

```
1 RTorRcomponents_epi |.| Rmust_eos Rpotential_codeblk Rlint_epi
```

```
▷ 6 47 48 49 50 51
```

```
2 Rstart_thread Rlint_epi Rbal_thread_expr Rlint_epi |.| Rcalled_thd_eos Rlint_epi
Rpotential_codeblk Rlint_epi
```

```
▷ 6 14 15 16 17 18 28 29 30 31
```

```
3 Rstart_thread Rlint_epi Rbal_thread_expr Rlint_epi |.| Rchained_dispatcher
Rlint_epi Rcalled_thd_eos Rlint_epi Rpotential_codeblk Rlint_epi
```

```
▷ 6 14 15 16 17 18 19 20 21 22 23 27
```

```
4 Rcalled_proc_op Rlint_epi Rbal_called_proc_expr Rlint_epi |.| Rcalled_proc_eos
Rlint_epi Rpotential_codeblk Rlint_epi
```

```
▷ 6 32 33 34 35 36 43 44 45 46
```

```
5 Rcalled_proc_op Rlint_epi Rbal_called_proc_expr Rlint_epi |.| Rchained_dispatcher
Rlint_epi Rcalled_proc_eos Rlint_epi Rpotential_codeblk Rlint_epi
```

```
▷ 6 32 33 34 35 36 37 38 39 40 41 42
```

109. Rstart_thread.

```
1 ||| ||| NS_parallel_oper::TH_parallel_oper
```

```
▷ 6 7 9
```

110. Rbal_thread_expr.

```
1 Rrtned_T Rlint_epi Rcalled_thread
  ▷ 15 65 66 72
```

111. Rrtned_T.

```
1 ||| T-in-stbl NS_rtn_component::TH_rtn_component
  ▷ 15 61 64
  ▷ 33↗61
2 ||| |?| NULL
  ▷ 15 61 62
  ▷ 33↗61
3 |?|
  ▷ 15 60
  ▷ 33↗60
4 ||| ||| NULL
  ▷ 15 61 63
  ▷ 33↗61
```

112. Rcalled_thread.

```
1 Rns Rdbl_colon Rth_name
  ▷ 66 74 75 80
2 RNULL
  ▷ 66 73
```

113. RNULL.

```
1 ||| # NULL NS_identifier::TH_identifier
  ▷ 66 68 71
  ▷ 96↗68
```

114. Rns.

```
1 ||| identifier NULL
  ▷ 66 68 70
  ▷ 96↗68
2 ||| |?| NULL
  ▷ 66 68 69
  ▷ 96↗68
3 |?|
  ▷ 66 67
  ▷ 96↗67
```

115. Rdbl_colon.

```

1 ||| :: NS_dbl_colon::TH_dbl_colon
  ▷ 74 116 118
  ▷ 98 ↗116
2 ||| |?| NULL
  ▷ 74 116 117
  ▷ 98 ↗116
3 |?|
  ▷ 74 115
  ▷ 98 ↗115

```

116. Rth_name.

```

1 ||| identifier NS_identifier::TH_identifier
  ▷ 75 77 79
  ▷ 99 ↗77
2 ||| |?| NULL
  ▷ 75 77 78
  ▷ 99 ↗77
3 |?|
  ▷ 75 76
  ▷ 99 ↗76

```

117. Rcalled_proc_op.

```

1 ||| |t| NULL
  ▷ 6 7 10

```

118. Rbal_called_proc_expr.

```

1 Rrtnd_T Rlint_epi Rcalled_proc_name
  ▷ 33 95 96 101

```

119. Rcalled_proc_name.

```

1 Rns Rdbl_colon Rth_name
  ▷ 96 98 99 100
2 RNULL
  ▷ 96 97

```

120. RTorRcomponents_epi.

```

1 ε
  ▷ 6
2 RTorRcomponents
  ▷ 6 52

```

121. RTorRcomponents.

```

1 RTorRcomponent Rlint.epi
  ▷ 6 55 56
2 RTorRcomponents RTorRcomponent Rlint.epi
  ▷ 6 52 53 54

```

122. RTorRcomponent.

```

1 ||| rule-in-stbl NS_rhs_component::TH_rhs_component
  ▷ 6 7 12
  ▷ 52 110↗12
2 ||| T-in-stbl NULL
  ▷ 6 7 11
  ▷ 52 110↗11
3 ||| |?| NULL
  ▷ 6 7 8
  ▷ 52 110↗8

```

123. Rchained_dispatcher.

```

1 ||| rule-in-stbl NS_rhs_component::TH_rhs_component
  ▷ 18 82 85
  ▷ 36 103↗85
2 ||| T-in-stbl NULL
  ▷ 18 82 84
  ▷ 36 103↗84
3 ||| |?| NULL
  ▷ 18 82 83
  ▷ 36 103↗83

```

124. Rmust_eos.

```

1 ||| eosubrule NS_rhs_bnd::TH_rhs_bnd
  ▷ 48 107 109
2 |?|
  ▷ 48 106
3 ||| |?| NULL
  ▷ 48 107 108

```

125. Rcalled_thd_eos.

```

1 ||| eosubrule NS_rhs_bnd::TH_rhs_bnd
  ▷ 18 82 86
  ▷ 20 87↗86
2 |?|
  ▷ 18 81
  ▷ 20↗81

```

126. Rcalled_proc_eos.

```

1 ||| eosubrule NS_rhs_bnd::TH_rhs_bnd
  ▷ 36 103 104
  ▷ 38 105↗104
2 |?|
  ▷ 36 102
  ▷ 38↗102

```

127. Rpotential_codeblk.

```

1 Rpotential_directives
  ▷ 22 94
  ▷ 29↗94
  ▷ 40↗94
  ▷ 44↗94
  ▷ 49↗94

```

128. Rpotential_directives.

```

1 €
  ▷ 22
  ▷ 29
  ▷ 40
  ▷ 44
  ▷ 49
2 { Rlint_epi Rmust_directive_phrase Rmaybe_more_directives Rclose_brace Rlint_epi
  ▷ 22 88 89 90 91 92 93
  ▷ 29↗88
  ▷ 40↗88
  ▷ 44↗88
  ▷ 49↗88

```

129. Rmust_directive_phrase.

```

1 Rdirective_cweb_k_epi Rlint_epi Rmust_directive Rsyntax_code Rlint_epi
  ▷ 89 123 124 125 126 127

```

130. Rmust_directive.

```

1 ||| # op NS_identifiser::TH_identifiser
  ▷ 124 145 147
2 ||| |?| NULL
  ▷ 124 145 146
3 |?|
  ▷ 124 144

```

131. Rclose_brace.

```

1 |?|
  ▷ 91 142
2 }
  ▷ 91 143

```

132. Rmaybe_more_directives.

```

1 ε
  ▷ 90
2 Rmaybe_directive_phrases
  ▷ 90 131

```

133. Rmaybe_directive_phrases.

```

1 Rmaybe_directive_phrase
  ▷ 90 141
2 Rmaybe_directive_phrases Rmaybe_directive_phrase
  ▷ 90 131 132

```

134. Rmaybe_directive_phrase.

```

1 Rdirective_cweb_k_epi Rlint_epi Rdirective Rsyntax_code Rlint_epi
  ▷ 90 136 137 138 139 140
  ▷ 131 ↗136
2 Rdirective Rsyntax_code Rlint_epi
  ▷ 90 133 134 135
  ▷ 131 ↗133

```

135. Rdirective.

```

1 ||| # op NS_identififer::TH_identififer
  ▷ 90 128 130
  ▷ 131 ↗128
  ▷ 137 151 ↗130
2 ||| |?| NULL
  ▷ 90 128 129
  ▷ 131 ↗128
  ▷ 137 151 ↗129

```

136. Rsyntax_code.

```

1 ||| syntax-code NS_o2_sdc::TH_o2_sdc
  ▷ 125 148 150
  ▷ 133 ↗148
  ▷ 138 ↗148
2 ||| |?| NULL
  ▷ 125 148 149
  ▷ 133 ↗148
  ▷ 138 ↗148

```

137. Rlint_epi.

```
1 ||| lint NS_lint_balls::TH_lint_balls
```

```
▷ 5 24 25
```

```
▷ 14 ↗24
```

```
▷ 16 ↗24
```

```
▷ 19 ↗24
```

```
▷ 21 ↗24
```

```
▷ 23 ↗24
```

```
▷ 28 ↗24
```

```
▷ 30 ↗24
```

```
▷ 32 ↗24
```

```
▷ 34 ↗24
```

```
▷ 37 ↗24
```

```
▷ 39 ↗24
```

```
▷ 41 ↗24
```

```
▷ 43 ↗24
```

```
▷ 45 ↗24
```

```
▷ 50 ↗24
```

```
▷ 53 ↗24
```

```
▷ 55 ↗24
```

```
▷ 58 ↗24
```

```
▷ 65 ↗24
```

```
▷ 88 ↗24
```

```
▷ 92 ↗24
```

```
▷ 95 ↗24
```

```
▷ 123 ↗24
```

```
▷ 126 ↗24
```

```
▷ 134 ↗24
```

```
▷ 136 ↗24
```

```
▷ 139 ↗24
```

```
2 |. |
```

```
▷ 5 26
```

```
▷ 14 ↗26
```

```
▷ 16 ↗26
```

```
▷ 19 ↗26
```

```
▷ 21 ↗26
```

```
▷ 23 ↗26
```

```
▷ 28 ↗26
```

```
▷ 30 ↗26
```

```
▷ 32 ↗26
```

```
▷ 34 ↗26
```

```
▷ 37 ↗26
```

```
▷ 39 ↗26
```

```
▷ 41 ↗26
```

```
▷ 43 ↗26
```

```
▷ 45 ↗26
```

```
▷ 50 ↗26
```

```
▷ 53 ↗26
```

```
▷ 55 ↗26
```

```
▷ 58 ↗26
```

```
▷ 65 ↗26
```

- ▷ 88^{↗26}
- ▷ 92^{↗26}
- ▷ 95^{↗26}
- ▷ 123^{↗26}
- ▷ 126^{↗26}
- ▷ 134^{↗26}
- ▷ 136^{↗26}
- ▷ 139^{↗26}

138. Rdirective_cweb_k_epi.

```
1 ε
  ▷ 89
  ▷ 90
  ▷ 131
2 ||| cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k
  ▷ 89 119 121
  ▷ 90 128↗121
  ▷ 131 128↗121
3 ||| comment-overflow NULL
  ▷ 89 119 122
  ▷ 90 128↗122
  ▷ 131 128↗122
4 ||| comment NULL
  ▷ 89 119 120
  ▷ 90 128↗120
  ▷ 131 128↗120
```

139. Rweb_k_epi.

```
1 ||| cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k
  ▷ 57 111 113
2 ||| comment-overflow NULL
  ▷ 57 111 114
3 ||| comment NULL
  ▷ 57 111 112
4 ε
  ▷ 57
```


140. 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

$\subset 3^r$	$6^{s/r}$	8^r	9^r	10^r	11^r	12^r	13^r	$22^{s/r}$	25^r	26^r	27^r	$29^{s/r}$	31^r	
$40^{s/r}$	42^r	$44^{s/r}$	46^r	$49^{s/r}$	51^r	$52^{s/r}$	54^r	56^r	$57^{s/r}$	59^r	60^r	62^r	63^r	
64^r	67^r	69^r	70^r	71^r	72^r	73^r	76^r	78^r	79^r	80^r	81^r	83^r	84^r	85^r
86^r	$89^{s/r}$	$90^{s/r^2}$	93^r	94^r	97^r	100^r	101^r	102^r	104^r	106^r	108^r	109^r		
112^r	113^r	114^r	115^r	117^r	118^r	120^r	121^r	122^r	127^r	129^r	130^r			
$131^{s/r^2}$	132^r	135^r	140^r	141^r	142^r	143^r	144^r	146^r	147^r	149^r	150^r			

141. Lr1 State's Follow sets and reducing lookahead sets.

Notes on Follow set expressions:

1) The "follow set" for rule uses its literal name and tags its grammar rule rank number as a superscript. Due to space limitations, part of the follow set information uses the rule's literal name while the follow set expressions refers to the rule's rank number. This \langle rule name, rule rank number \rangle tuple allows you the reader to decipher the expressions. Transitions are represented by S_xR_z whereby S is the LR1 state identified by its "x" subscript where other transient calculations occur within the LR1 state network. R indicates the follow set rule with the subscript "z" as its grammar rank number that contributes to the follow set.

The \nearrow^x symbol indicates that a merge into state "x" has taken place. That is, the reduced subrule that depends on this follow set finds its follow set in 2 places: its birthing state that generated the sequence up to the merged into state, and the birthing state that generated the "merged into" state. So the rule's "follow set" calculation must also continue its calculation within the birth state generating the "x merged into" state.

State: 1 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rsubrule_def¹

Local follow set yield:

eog, x00, x01, x02, x03, x04, x05, x06, x07, x08, x09, x0a, x0b, x0c, x0d, x0e, x0f, x10, x11, x12, x13, x14, x15, x16, x17, x18, x19, x1a, x1b, x1c, x1d, x1e, x1f, , !, ", #, \$, %, &, ', (,), *, +, ,, -, ., /, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, :, ;, <, =, >, ?, @, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, [, \,], ^, _ , ' , a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, {, |, }, , x7f, x80, x81, x82, x83, x84, x85, x86, x87, x88, x89, x8a, x8b, x8c, x8d, x8e, x8f, x90, x91, x92, x93, x94, x95, x96, x97, x98, x99, x9a, x9b, x9c, x9d, x9e, x9f, xa0, xa1, xa2, xa3, xa4, xa5, xa6, xa7, xa8, xa9, xaa, xab, xac, xad, xae, xaf, xb0, xb1, xb2, xb3, xb4, xb5, xb6, xb7, xb8, xb9, xba, xbb, xbc, xbd, xbe, xbf, xc0, xc1, xc2, xc3, xc4, xc5, xc6, xc7, xc8, xc9, xca, xcb, xcc, xcd, xce, xcf, xd0, xd1, xd2, xd3, xd4, xd5, xd6, xd7, xd8, xd9, xda, xdb, xdc, xdd, xde, xdf, xe0, xe1, xe2, xe3, xe4, xe5, xe6, xe7, xe8, xe9, xea, xeb, xec, xed, xee, xef, xf0, xf1, xf2, xf3, xf4, xf5, xf6, xf7, xf8, xf9, xfa, xfb, xfc, xfd, xfe, xff, option-t, option-p, option-err, esc-seq, eol, basic-char, raw-char, comment, ws, angled-string, c-literal, c-string, xc-str, unquoted-string, file-inclusion, identifier, int-no, # raw-characters, # lr1-constant-symbols, # error-symbols, # ***, # AD, # AB, # parallel-lambda-boundary, # arbitrator-code, # parallel-parser, # parallel-thread-function, # parallel-control-monitor, # fsm, # fsm-id, # fsm-filename, # fsm-namespace, # fsm-class, # fsm-version, # fsm-date, # fsm-debug, # fsm-comments, # terminals, # T-enumeration, # filename, # name-space, # sym-class, # rules, # lhs, # user-declaration, # user-prefix-declaration, # user-suffix-declaration, # constructor, # destructor, # op, # failed, # user-implementation, # user-imp-tbl, # user-imp-sym, # constant-defs, # terminals-refs, # terminals-suffix, # lrk-suffix, - > , # NULL, ::, block, syntax-code, fsm-class-phrase, fsm-phrase, parallel-parser-phrase, T-enum-phrase, terminal-def, table-entry, sym-tbl-report-card, terminals-phrase, error-symbols-phrase, lr1-k-phrase, rc-phrase, rule-lhs-phrase, parallel-monitor-phrase, rule-def, rules-phrase, subrule-def, subrules-phrase, T-in-stbl, referred-T, rule-in-stbl, referred-rule, transitive, grammar-name, thread-name, monolithic, no-of-T, list-of-native-first-set-terminals, end-list-of-native-first-set-terminals, list-of-transitive-threads, end-list-of-transitive-threads, emitfile, preamble, end-preamble, T-alphabet, end-T-alphabet, file-of-T-alphabet, T-attributes, tth-in-stbl,

thread-attributes, th-in-stbl, kw-in-stbl, la-express-source, eosubrule, called thread eosubrule, null call thread eosubrule, cweb-comment, grammar-phrase, cweb-marker, lint, list-of-used-threads, end-list-of-used-threads, nested files exceeded, no end-of-code, no cmd-lne-data, no filename, bad filename, bad filename to output grammar header, bad filename to output cpp, bad filename to output sym, bad filename to output tbl, bad filename to output enumeration header, bad filename for Errors vocabulary header, bad filename for Errors vocabulary implementation, bad cmd-opt, bad int-no, bad int-no range, no int present, bad eos, bad esc, comment-overflow, bad char, bad univ-seq, improper closing of rules construct, no identifier present, no directive present, duplicate directive, no syntax-code present, no open-parenthesis, no close-parenthesis, no fsm-id-present, no fsm-id-string present, no fsm-filename present, no fsm-filename id present, no comma present, no key-value present in definition, no fsm-namespace present, no fsm-namespace id present, no fsm-class present, no fsm-version present, no fsm-version string present, no fsm-date present, no fsm-date string present, no fsm-debug present, no fsm-debug string present, no fsm-comments present, no fsm-comments string present, invalid fsm-debug value, no parallel-thread-function, no parallel-control-monitor, no parallel thread function, no parallel-la-boundary, no parallel-la-boundary-expr, no ***, no parallel-code, no parallel-code-syntax-code, not an arbitration-code keyword, no open-brace, no close-brace, no constant-defs-directive present, no file-name present, no file-name-id present, no name-space present, no name-space-id present, no constant-defs-code present, no constant-defs keyword present, no terminal-def-code present, no symbol definition present, duplicate-entry in alphabet, already defined AB tag, already defined AD tag, improper directive, no sym-class present, no sym-class id present, zero len symbol, stbl full, stbl char-pool full, dup-entry in symtable, subscript out-of-range, stbl scope-stk overflow, stbl scope-stk underflow, stbl context-buf-overflow, report-card-ptr-0, bad pos of t def, dup ? sufx directive, bad pos of terminals-refs, terminals-refs duplicate, no rule name present, no sub rule present, undefined terminal in subrule, unknown symbol type in stbl, subrule overrun, stbl has entry but not a rule, no file-of-T-alphabet, emitfile kw not present, preamble kw not present, no preamble source code, no end-preamble present, command line chaffe, T-alphabet kw not present, T-alphabet file not present, no end-T-alphabet present, no T in T-alphabet list, rotten chr in T-alphabet, no transitive present, no grammar-name present, no name-space, no file-name kw present, no thread-name present, no monolithic present, no no-of-T present, no list-of-native-terminals, no list-of-transit..., no Ts in T-alphabet, linker's transitive value not n or y, linker's monolithic value not n or y, no grammar-name value, no name-space value, no thread-name value, no file-name value, no-of-T value not present, no # in list-of-native-term..., no end-list-of-native..., no end-list-of-trans..., # T in list not eq, # threads in list not eq, thread xrefed, but not defed, T in list not defined in T-alphabet, transitive list thread not defined by fsc files, thread defined by another fsc file, thread in stbl but subscript badly set, token found in stbl but not a kw, no # in list-of-trans..., re-compile grammar: bad T-alphabet, fsc file does not exist, file-name file does not exist, T-alphabet file does not exist, emitfile file does not exist, emitfile file not present, fsc file not present, file of T-alphabet not present, O2 epsilon badly gened: 0 items in fsc lists, O2 epsilon: T present, but no T list, rule not found in stbl, T not found in stbl, bad directive, bad term in la expr, removal of term against empty set in la expr, bad operator la expr: not a + or -, not a lhs kw, no parallel-la-bndary expr, duplicate fsm phrase, duplicate parallel-parse phrase, duplicate T.enum phrase, duplicate error phrase, duplicate raw character phrase, duplicate lrk phrase, duplicate terminal phrase, duplicate rule phrase, T not returned from a thread, not a namespace id in thread expr, not a thread name id in expr, bad thread expr, not :: in thread expr, bad term in subrule expr, ? ended subrule expr, not an eosr in subrule expr, invalid logical name, invalid logical value, duplicate logical name, missing terminals-refs kw, missing terminals-sufx kw, not a terminal definition, missing lrk-sufx kw, rule does not gen T strings - sick grammar, misplaced

or missing fsm phrase, misplaced or missing T enumeration phrase, misplaced or missing lrk phrase, misplaced or missing rc phrase, misplaced or missing errors phrase, misplaced or missing terminals phrase, misplaced or missing rules phrase, rule used but undefined, rule already defined, la expression calculates an empty set, no closing brace ending rules defs, use of T outside Rules's construct, not a kw to start the top/down parse construct, use of Non-terminal (rule) outside Rules's construct, misplaced or misspelt Rule or T outside of Rules defs, not a Rule in chained dispatcher expr, Empty file no grammar constructs present, term not a lhs or parallel-control-monitor kw.

```
← Follow set Rule → ← follow set symbols contributors →
Rvector2 R1.1.1
Local follow set yield:
|.|.

```

State: 5 Follow Set contributors, merges, and transitions

```
← Follow set Rule → ← follow set symbols contributors →
Rcommon_comments3 R1.1.3
Local follow set yield:
|.|, |.|.

```

```
← Follow set Rule → ← follow set symbols contributors →
Rlint_epi34 R3.1.1 R3.1.2
Local follow set yield:
|.|, |.|.

```

State: 6 Follow Set contributors, merges, and transitions

```
← Follow set Rule → ← follow set symbols contributors →
Rrhs_expr4 R1.1.4 S1R1
Local follow set yield:

```

```
← Follow set Rule → ← follow set symbols contributors →
Rstart_thread5 R4.3.1 R4.2.1
Local follow set yield:
|.|, |.|.

```

```
← Follow set Rule → ← follow set symbols contributors →
Rcalled_proc_op13 R4.4.1 R4.5.1
Local follow set yield:
|.|, |.|.

```

```
← Follow set Rule → ← follow set symbols contributors →
RTorRcomponents_epi16 R4.1.1
Local follow set yield:
|.|.

```

```
← Follow set Rule → ← follow set symbols contributors →
RTorRcomponents17 R17.2.1 R16.2.1 S6R16
Local follow set yield:
|.|.

```

```
← Follow set Rule → ← follow set symbols contributors →
RTorRcomponent18 R17.1.1 ↗52
Local follow set yield:
|.|, |.|.

```

State: 14 Follow Set contributors, merges, and transitions

```
← Follow set Rule → ← follow set symbols contributors →
Rlint_epi34 R4.3.2 R4.2.2

```

Local follow set yield:

|?|, |||.

State: 15 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rbal_thread_expr⁶ R_{4.3.3} R_{4.2.3}

Local follow set yield:

|||, |.|.

← Follow set Rule → ← follow set symbols contributors →

Rrtnd_T⁷ R_{6.1.1} ↗³³

Local follow set yield:

|||, |.|.

State: 16 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint_epi³⁴ R_{4.3.4} R_{4.2.4}

Local follow set yield:

|.|.

State: 18 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rchained_dispatcher¹⁹ R_{4.3.6} ↗³⁶

Local follow set yield:

|||, |.|.

← Follow set Rule → ← follow set symbols contributors →

Rcalled_thd_eos²¹ R_{4.2.6} ↗²⁰

Local follow set yield:

|||, |.|.

State: 19 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint_epi³⁴ R_{4.3.7}

Local follow set yield:

|?|, |||.

State: 20 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rcalled_thd_eos²¹ R_{4.3.8}

Local follow set yield:

|||, |.|.

State: 21 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint_epi³⁴ R_{4.3.9} R_{4.3.10}

Local follow set yield:

|||, |.|, {.

State: 22 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rpotential_codeblk²³ R_{4.3.10} ↗⁴⁹ ↗⁴⁴ ↗⁴⁰ ↗²⁹

Local follow set yield:

|||, |.|.

← Follow set Rule → ← follow set symbols contributors →
 Rpotential_directives²⁴ R_{23.1.1} ↗⁴⁹ ↗⁴⁴ ↗⁴⁰ ↗²⁹ S₂₂R₂₃
 Local follow set yield:

State: 23 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.3.11} ↗¹³⁶ ↗¹²³ ↗⁹⁵ ↗¹³⁹ ↗¹³⁴ ↗¹²⁶ ↗⁸⁸ ↗⁶⁵ ↗⁴³ ↗³⁹
 ↗³⁷ ↗³⁴ ↗³² ↗²⁸ ↗⁹² ↗²¹ ↗¹⁹ ↗¹⁶ ↗¹⁴ ↗⁵⁸
 ↗⁵ ↗⁵⁵ ↗⁵³ ↗⁵⁰ ↗⁴⁵ ↗⁴¹ ↗³⁰ S₆R₄

Local follow set yield:

State: 28 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.2.7} R_{4.2.8}
 Local follow set yield:
 | | |, |. |, {.

State: 29 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rpotential_codeblk²³ R_{4.2.8}
 Local follow set yield:
 | | |, |. |.

← Follow set Rule → ← follow set symbols contributors →
 Rpotential_directives²⁴ R_{23.1.1} S₂₉R₂₃
 Local follow set yield:

State: 30 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.2.9} S₆R₄
 Local follow set yield:

State: 32 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.4.2} R_{4.5.2}
 Local follow set yield:
 |? |, | | |.

State: 33 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rrtnd_T⁷ R_{14.1.1}
 Local follow set yield:
 | | |, |. |.

← Follow set Rule → ← follow set symbols contributors →
 Rbal_called_proc_expr¹⁴ R_{4.4.3} R_{4.5.3}
 Local follow set yield:
 | | |, |. |.

State: 34 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.4.4} R_{4.5.4}
 Local follow set yield:
 |.|.

State: 36 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rchained_dispatcher¹⁹ R_{4.5.6}
 Local follow set yield:
 |||, |.|.

← Follow set Rule → ← follow set symbols contributors →
 Rcalled_proc_eos²² R_{4.4.6} ↗³⁸
 Local follow set yield:
 |||, |.|.

State: 37 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.5.7}
 Local follow set yield:
 |?|, |||.

State: 38 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rcalled_proc_eos²² R_{4.5.8}
 Local follow set yield:
 |||, |.|.

State: 39 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.5.9} R_{4.5.10}
 Local follow set yield:
 |||, |.|, {.

State: 40 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rpotential_codeblk²³ R_{4.5.10}
 Local follow set yield:
 |||, |.|.

← Follow set Rule → ← follow set symbols contributors →
 Rpotential_directives²⁴ R_{23.1.1} S₄₀R₂₃
 Local follow set yield:

State: 41 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.5.11} S₆R₄
 Local follow set yield:

State: 43 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{4.4.7} R_{4.4.8}

Local follow set yield:

|||, |.|, {.

State: 44 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rpotential_codeblk²³ R_{4.4.8}

Local follow set yield:

|||, |.|.

← Follow set Rule → ← follow set symbols contributors →

Rpotential_directives²⁴ R_{23.1.1} S₄₄R₂₃

Local follow set yield:

State: 45 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint_epi³⁴ R_{4.4.9} S₆R₄

Local follow set yield:

State: 48 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rmust_eos²⁰ R_{4.1.3} R_{4.1.4}

Local follow set yield:

|||, |.|, {.

State: 49 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rpotential_codeblk²³ R_{4.1.4}

Local follow set yield:

|||, |.|.

← Follow set Rule → ← follow set symbols contributors →

Rpotential_directives²⁴ R_{23.1.1} S₄₉R₂₃

Local follow set yield:

State: 50 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint_epi³⁴ R_{4.1.5} S₆R₄

Local follow set yield:

State: 52 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

RTorRcomponent¹⁸ R_{17.2.2}

Local follow set yield:

|||, |.|.

State: 53 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint_epi³⁴ R_{17.2.3} S₆R₁₇

Local follow set yield:

State: 55 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{17.1.2} S_6 R_{17}$
 Local follow set yield:

State: 57 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{3.1.2}$
 Local follow set yield:
 | | | , | . | .

State: 58 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{3.1.3} S_5 R_3$
 Local follow set yield:

State: 65 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{6.1.2}$
 Local follow set yield:
 | ? | , | | | .

State: 66 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{6.1.3} S_{15} R_6$
 Local follow set yield:

← Follow set Rule → ← follow set symbols contributors →
 $R_{8.2.1} \nearrow^{96} S_{66} R_8$
 Local follow set yield:

← Follow set Rule → ← follow set symbols contributors →
 $R_{8.1.1} \nearrow^{96}$
 Local follow set yield:
 | ? | , | | | .

State: 74 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{8.1.2} \nearrow^{98}$
 Local follow set yield:
 | ? | , | | | .

State: 75 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{8.1.3} \nearrow^{99} S_{66} R_8$
 Local follow set yield:

State: 88 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{24.2.2}
 Local follow set yield:
 | | | , | . | .

State: 89 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rmust_directive_phrase²⁵ R_{24.2.3} R_{24.2.4}
 Local follow set yield:
 | ? | , | | | , | . | , } .

← Follow set Rule → ← follow set symbols contributors →
 Rdirective_cweb_k_epi³⁵ R_{25.1.1} ↗⁹⁰
 Local follow set yield:
 | | | , | . | .

State: 90 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rmaybe_more_directives²⁸ R_{24.2.4}
 Local follow set yield:
 | ? | , } .

← Follow set Rule → ← follow set symbols contributors →
 Rmaybe_directive_phrases²⁹ R_{28.2.1} R_{29.2.1} S₉₀ R₂₈
 Local follow set yield:
 | | | , | . | .

← Follow set Rule → ← follow set symbols contributors →
 Rmaybe_directive_phrase³⁰ R_{29.1.1} S₉₀ R₂₉
 Local follow set yield:

← Follow set Rule → ← follow set symbols contributors →
 Rdirective³² R_{30.2.1} ↗¹³⁷ ↗¹³¹
 Local follow set yield:
 | | | .

← Follow set Rule → ← follow set symbols contributors →
 Rdirective_cweb_k_epi³⁵ R_{30.1.1} ↗¹³¹
 Local follow set yield:
 | | | , | . | .

State: 91 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rclose_brace²⁷ R_{24.2.5}
 Local follow set yield:
 | | | , | . | .

State: 92 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{24.2.6} S₂₂ R₂₄
 Local follow set yield:

State: 95 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{14.1.2}

Local follow set yield:

|?|, |||.

State: 96 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 RNULL⁹ R_{15.2.1} S₉₆R₁₅

Local follow set yield:

← Follow set Rule → ← follow set symbols contributors →
 Rns¹⁰ R_{15.1.1}

Local follow set yield:

|?|, |||.

← Follow set Rule → ← follow set symbols contributors →
 Rcalled_proc_name¹⁵ R_{14.1.3} S₃₃R₁₄

Local follow set yield:

State: 98 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rdbl_colon¹¹ R_{15.1.2}

Local follow set yield:

|?|, |||.

State: 99 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rth_name¹² R_{15.1.3} S₉₆R₁₅

Local follow set yield:

State: 123 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{25.1.2}

Local follow set yield:

|?|, |||.

State: 124 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rmust_directive²⁶ R_{25.1.3}

Local follow set yield:

|||.

State: 125 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rsyntax_code³³ R_{25.1.4} ^{↗¹³⁸} ^{↖¹³³}

Local follow set yield:

|||, |.|.

State: 126 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint_epi³⁴ R_{25.1.5} S₈₉R₂₅

Local follow set yield:

State: 131 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{maybe_directive_phrase}}^{30} R_{29.2.2} \nearrow^{90} S_{90} R_{29}$
 Local follow set yield:

← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{directive}}^{32} R_{30.2.1}$
 Local follow set yield:
 | | |.

← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{directive_cweb_k_epi}}^{35} R_{30.1.1}$
 Local follow set yield:
 | | |, | . |.

State: 133 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{syntax_code}}^{33} R_{30.2.2}$
 Local follow set yield:
 | | |, | . |.

State: 134 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{lint_epi}}^{34} R_{30.2.3} S_{131} R_{30}$
 Local follow set yield:

State: 136 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{lint_epi}}^{34} R_{30.1.2}$
 Local follow set yield:
 | | |.

State: 137 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{directive}}^{32} R_{30.1.3}$
 Local follow set yield:
 | | |.

State: 138 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{syntax_code}}^{33} R_{30.1.4}$
 Local follow set yield:
 | | |, | . |.

State: 139 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{\text{lint_epi}}^{34} R_{30.1.5} S_{131} R_{30}$
 Local follow set yield:

142. **Common Follow sets.**

143. **LA set: 1.**

|.|.

144. **LA set: 2.**

|r|, |.|.

145. LA set: 3.

eog, x00, x01, x02, x03, x04, x05, x06, x07, x08, x09, x0a, x0b, x0c, x0d, x0e, x0f, x10, x11, x12, x13, x14, x15, x16, x17, x18, x19, x1a, x1b, x1c, x1d, x1e, x1f, , !, ", #, \$, %, &, ', (,), *, +, ,, -, ., /, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, :, ;, <, =, >, ?, @, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, [, \,], ^, _ , ' , a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, {, |, }, , x7f, x80, x81, x82, x83, x84, x85, x86, x87, x88, x89, x8a, x8b, x8c, x8d, x8e, x8f, x90, x91, x92, x93, x94, x95, x96, x97, x98, x99, x9a, x9b, x9c, x9d, x9e, x9f, xa0, xa1, xa2, xa3, xa4, xa5, xa6, xa7, xa8, xa9, xaa, xab, xac, xad, xae, xaf, xb0, xb1, xb2, xb3, xb4, xb5, xb6, xb7, xb8, xb9, xba, xbb, xbc, xbd, xbe, xbf, xc0, xc1, xc2, xc3, xc4, xc5, xc6, xc7, xc8, xc9, xca, xcb, xcc, xcd, xce, xcf, xd0, xd1, xd2, xd3, xd4, xd5, xd6, xd7, xd8, xd9, xda, xdb, xdc, xdd, xde, xdf, xe0, xe1, xe2, xe3, xe4, xe5, xe6, xe7, xe8, xe9, xea, xeb, xec, xed, xee, xef, xf0, xf1, xf2, xf3, xf4, xf5, xf6, xf7, xf8, xf9, xfa, xfb, xfc, xfd, xfe, xff, option-t, option-p, option-err, esc-seq, eol, basic-char, raw-char, comment, ws, angled-string, c-literal, c-string, xc-str, unquoted-string, file-inclusion, identifier, int-no, # raw-characters, # lr1-constant-symbols, # error-symbols, # ***, # AD, # AB, # parallel-la-boundary, # arbitrator-code, # parallel-parser, # parallel-thread-function, # parallel-control-monitor, # fsm, # fsm-id, # fsm-filename, # fsm-namespace, # fsm-class, # fsm-version, # fsm-date, # fsm-debug, # fsm-comments, # terminals, # T-enumeration, # file-name, # name-space, # sym-class, # rules, # lhs, # user-declaration, # user-prefix-declaration, # user-suffix-declaration, # constructor, # destructor, # op, # failed, # user-implementation, # user-imp-tbl, # user-imp-sym, # constant-defs, # terminals-refs, # terminals-suffix, # lrk-suffix, - > , # NULL, ::, block, syntax-code, fsm-class-phrase, fsm-phrase, parallel-parser-phrase, T-enum-phrase, terminal-def, table-entry, sym-tbl-report-card, terminals-phrase, error-symbols-phrase, lr1-k-phrase, rc-phrase, rule-lhs-phrase, parallel-monitor-phrase, rule-def, rules-phrase, subrule-def, subrules-phrase, T-in-stbl, referred-T, rule-in-stbl, referred-rule, transitive, grammar-name, thread-name, monolithic, no-of-T, list-of-native-first-set-terminals, end-list-of-native-first-set-terminals, list-of-transitive-threads, end-list-of-transitive-threads, emitfile, preamble, end-preamble, T-alphabet, end-T-alphabet, file-of-T-alphabet, T-attributes, tth-in-stbl, thread-attributes, th-in-stbl, kw-in-stbl, la-express-source, eosubrule, called thread eosubrule, null call thread eosubrule, cweb-comment, grammar-phrase, cweb-marker, lint, list-of-used-threads, end-list-of-used-threads, nested files exceeded, no end-of-code, no cmd-lne-data, no filename, bad filename, bad filename to output grammar header, bad filename to output cpp, bad filename to output sym, bad filename to output tbl, bad filename to output enumeration header, bad filename for Errors vocabulary header, bad filename for Errors vocabulary implementation, bad cmd-opt, bad int-no, bad int-no range, no int present, bad eos, bad esc, comment-overflow, bad char, bad univ-seq, improper closing of rules construct, no identifier present, no directive present, duplicate directive, no syntax-code present, no open-parenthesis, no close-parenthesis, no fsm-id-present, no fsm-id-string present, no fsm-filename present, no fsm-filename id present, no comma present, no key-value present in definition, no fsm-namespace present, no fsm-namespace id present, no fsm-class present, no fsm-version present, no fsm-version string present, no fsm-date present, no fsm-date string present, no fsm-debug present, no fsm-debug string present, no fsm-comments present, no fsm-comments string present, invalid fsm-debug value, no parallel-thread-function, no parallel-control-monitor, no parallel thread function, no parallel-la-boundary, no parallel-la-boundary-expr, no ***, no parallel-code, no parallel-code-syntax-code, not an arbitration-code keyword, no open-brace, no close-brace, no constant-defs-directive present, no file-name present, no file-name-id present, no name-space present, no name-space-id present, no constant-defs-code present, no constant-defs keyword present, no

terminal-def-code present, no symbol definition present, duplicate-entry in alphabet, already defined AB tag, already defined AD tag, improper directive, no sym-class present, no sym-class id present, zero len symbol, stbl full, stbl char-pool full, dup-entry in sym-table, subscript out-of-range, stbl scope-stk overflow, stbl scope-stk underflow, stbl context-buf-overflow, report-card-ptr-0, bad pos of t def, dup ? sufx directive, bad pos of terminals-refs, terminals-refs duplicate, no rule name present, no sub rule present, undefined terminal in subrule, unknown symbol type in stbl, subrule overrun, stbl has entry but not a rule, no file-of-T-alphabet, emitfile kw not present, preamble kw not present, no preamble source code, no end-preamble present, command line chaffe, T-alphabet kw not present, T-alphabet file not present, no end-T-alphabet present, no T in T-alphabet list, rotten chr in T-alphabet, no transitive present, no grammar-name present, no name-space, no file-name kw present, no thread-name present, no monolithic present, no no-of-T present, no list-of-native-terminals, no list-of-transit..., no Ts in T-alphabet, linker's transitive value not n or y, linker's monolithic value not n or y, no grammar-name value, no name-space value, no thread-name value, no file-name value, no-of-T value not present, no # in list-of-native-term..., no end-list-of-native..., no end-list-of-trans..., # T in list not eq, # threads in list not eq, thread xrefed, but not defed, T in list not defined in T-alphabet, transitive list thread not defined by fsc files, thread defined by another fsc file, thread in stbl but subscript badly set, token found in stbl but not a kw, no # in list-of-trans..., re-compile grammar: bad T-alphabet, fsc file does not exist, file-name file does not exist, T-alphabet file does not exist, emitfile file does not exist, emitfile file not present, fsc file not present, file of T-alphabet not present, O2 epsilon badly gened: 0 items in fsc lists, O2 epsilon: T present, but no T list, rule not found in stbl, T not found in stbl, bad directive, bad term in la expr, removal of term against empty set in la expr, bad operator la expr: not a + or -, not a lhs kw, no parallel-la-bndary expr, duplicate fsm phrase, duplicate parallel-parse phrase, duplicate T_enum phrase, duplicate error phrase, duplicate raw character phrase, duplicate lrk phrase, duplicate terminal phrase, duplicate rule phrase, T not returned from a thread, not a namespace id in thread expr, not a thread name id in expr, bad thread expr, not :: in thread expr, bad term in subrule expr, ? ended subrule expr, not an eosr in subrule expr, invalid logical name, invalid logical value, duplicate logical name, missing terminals-refs kw, missing terminals-sufx kw, not a terminal definition, missing lrk-sufx kw, rule does not gen T strings - sick grammar, misplaced or missing fsm phrase, misplaced or missing T enumeration phrase, misplaced or missing lrk phrase, misplaced or missing rc phrase, misplaced or missing errors phrase, misplaced or missing terminals phrase, misplaced or missing rules phrase, rule used but undefined, rule already defined, la expression calculates an empty set, no closing brace ending rules defs, use of T outside Rules's construct, not a kw to start the top/down parse construct, use of Non-terminal (rule) outside Rules's construct, misplaced or misspelt Rule or T outside of Rules defs, not a Rule in chained dispatcher expr, Empty file no grammar constructs present, term not a lhs or parallel-control-monitor kw.

146. LA set: 4.

|?|, eog, |r|, |.|, x00, x01, x02, x03, x04, x05, x06, x07, x08, x09, x0a, x0b, x0c, x0d, x0e, x0f, x10, x11, x12, x13, x14, x15, x16, x17, x18, x19, x1a, x1b, x1c, x1d, x1e, x1f, , !, ", #, \$, %, &, ', (,), *, +, ,, -, ., /, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, :, ;, <, =, >, ?, @, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, [, \,], ^, _, ` , a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, {, |, }, , x7f, x80, x81, x82, x83, x84, x85, x86, x87, x88, x89, x8a, x8b, x8c, x8d, x8e, x8f, x90, x91, x92, x93, x94, x95, x96, x97, x98, x99, x9a, x9b, x9c, x9d, x9e, x9f, xa0, xa1, xa2, xa3, xa4, xa5, xa6, xa7, xa8, xa9, xaa, xab, xac, xad, xae, xaf, xb0, xb1, xb2, xb3, xb4, xb5, xb6, xb7, xb8, xb9, xba, xbb, xbc, xbd, xbe, xbf, xc0, xc1, xc2, xc3, xc4, xc5, xc6, xc7, xc8, xc9, xca, xcb, xcc, xcd, xce, xcf, xd0, xd1, xd2, xd3, xd4, xd5, xd6, xd7, xd8, xd9, xda, xdb, xdc, xdd, xde, xdf, xe0, xe1, xe2, xe3, xe4, xe5, xe6, xe7, xe8, xe9, xea, xeb, xec, xed, xee, xef, xf0, xf1, xf2, xf3, xf4, xf5, xf6, xf7, xf8, xf9, xfa, xfb, xfc, xfd, xfe, xff, option-t, option-p, option-err, esc-seq, eol, basic-char, raw-char, comment, ws, angled-string, c-literal, c-string, xc-str, unquoted-string, file-inclusion, identifier, int-no, # raw-characters, # lr1-constant-symbols, # error-symbols, # ***, # AD, # AB, # parallel-la-boundary, # arbitrator-code, # parallel-parser, # parallel-thread-function, # parallel-control-monitor, # fsm, # fsm-id, # fsm-filename, # fsm-namespace, # fsm-class, # fsm-version, # fsm-date, # fsm-debug, # fsm-comments, # terminals, # T-enumeration, # file-name, # name-space, # sym-class, # rules, # lhs, # user-declaration, # user-prefix-declaration, # user-suffix-declaration, # constructor, # destructor, # op, # failed, # user-implementation, # user-imp-tbl, # user-imp-sym, # constant-defs, # terminals-refs, # terminals-suffix, # lrk-suffix, - > , # NULL, ::, block, syntax-code, fsm-class-phrase, fsm-phrase, parallel-parser-phrase, T-enum-phrase, terminal-def, table-entry, sym-tbl-report-card, terminals-phrase, error-symbols-phrase, lr1-k-phrase, rc-phrase, rule-lhs-phrase, parallel-monitor-phrase, rule-def, rules-phrase, subrule-def, subrules-phrase, T-in-stbl, referred-T, rule-in-stbl, referred-rule, transitive, grammar-name, thread-name, monolithic, no-of-T, list-of-native-first-set-terminals, end-list-of-native-first-set-terminals, list-of-transitive-threads, end-list-of-transitive-threads, emitfile, preamble, end-preamble, T-alphabet, end-T-alphabet, file-of-T-alphabet, T-attributes, tth-in-stbl, thread-attributes, th-in-stbl, kw-in-stbl, la-express-source, eosubrule, called thread eosubrule, null call thread eosubrule, cweb-comment, grammar-phrase, cweb-marker, lint, list-of-used-threads, end-list-of-used-threads, nested files exceeded, no end-of-code, no cmd-lne-data, no filename, bad filename, bad filename to output grammar header, bad filename to output cpp, bad filename to output sym, bad filename to output tbl, bad filename to output enumeration header, bad filename for Errors vocabulary header, bad filename for Errors vocabulary implementation, bad cmd-opt, bad int-no, bad int-no range, no int present, bad eos, bad esc, comment-overrun, bad char, bad univ-seq, improper closing of rules construct, no identifier present, no directive present, duplicate directive, no syntax-code present, no open-parenthesis, no close-parenthesis, no fsm-id-present, no fsm-id-string present, no fsm-filename present, no fsm-filename id present, no comma present, no key-value present in definition, no fsm-namespace present, no fsm-namespace id present, no fsm-class present, no fsm-version present, no fsm-version string present, no fsm-date present, no fsm-date string present, no fsm-debug present, no fsm-debug string present, no fsm-comments present, no fsm-comments string present, invalid fsm-debug value, no parallel-thread-function, no parallel-control-monitor, no parallel thread function, no parallel-la-boundary, no parallel-la-boundary-expr, no ***, no parallel-code, no parallel-code-syntax-code, not an arbitration-code keyword, no open-brace, no close-brace, no constant-defs-directive present, no file-name present, no file-name-id present, no name-space present, no name-space-id present, no constant-defs-code present, no constant-defs keyword present, no

terminal-def-code present, no symbol definition present, duplicate-entry in alphabet, already defined AB tag, already defined AD tag, improper directive, no sym-class present, no sym-class id present, zero len symbol, stbl full, stbl char-pool full, dup-entry in symtable, subscript out-of-range, stbl scope-stk overflow, stbl scope-stk underflow, stbl context-buf-overflow, report-card-ptr-0, bad pos of t def, dup ? sufx directive, bad pos of terminals-refs, terminals-refs duplicate, no rule name present, no sub rule present, undefined terminal in subrule, unknown symbol type in stbl, subrule overrun, stbl has entry but not a rule, no file-of-T-alphabet, emitfile kw not present, preamble kw not present, no preamble source code, no end-preamble present, command line chaffe, T-alphabet kw not present, T-alphabet file not present, no end-T-alphabet present, no T in T-alphabet list, rotten chr in T-alphabet, no transitive present, no grammar-name present, no name-space, no file-name kw present, no thread-name present, no monolithic present, no no-of-T present, no list-of-native-terminals, no list-of-transit..., no Ts in T-alphabet, linker's transitive value not n or y, linker's monolithic value not n or y, no grammar-name value, no name-space value, no thread-name value, no file-name value, no-of-T value not present, no # in list-of-native-term..., no end-list-of-native..., no end-list-of-trans..., # T in list not eq, # threads in list not eq, thread xrefed, but not defed, T in list not defined in T-alphabet, transitive list thread not defined by fsc files, thread defined by another fsc file, thread in stbl but subscript badly set, token found in stbl but not a kw, no # in list-of-trans..., re-compile grammar: bad T-alphabet, fsc file does not exist, file-name file does not exist, T-alphabet file does not exist, emitfile file does not exist, emitfile file not present, fsc file not present, file of T-alphabet not present, O2 epsilon badly gened: 0 items in fsc lists, O2 epsilon: T present, but no T list, rule not found in stbl, T not found in stbl, bad directive, bad term in la expr, removal of term against empty set in la expr, bad operator la expr: not a + or -, not a lhs kw, no parallel-la-bndary expr, duplicate fsm phrase, duplicate parallel-parse phrase, duplicate T enum phrase, duplicate error phrase, duplicate raw character phrase, duplicate lrk phrase, duplicate terminal phrase, duplicate rule phrase, T not returned from a thread, not a namespace id in thread expr, not a thread name id in expr, bad thread expr, not :: in thread expr, bad term in subrule expr, ? ended subrule expr, not an eosr in subrule expr, invalid logical name, invalid logical value, duplicate logical name, missing terminals-refs kw, missing terminals-sufx kw, not a terminal definition, missing lrk-sufx kw, rule does not gen T strings - sick grammar, misplaced or missing fsm phrase, misplaced or missing T enumeration phrase, misplaced or missing lrk phrase, misplaced or missing rc phrase, misplaced or missing errors phrase, misplaced or missing terminals phrase, misplaced or missing rules phrase, rule used but undefined, rule already defined, la expression calculates an empty set, no closing brace ending rules defs, use of T outside Rules's construct, not a kw to start the top/down parse construct, use of Non-terminal (rule) outside Rules's construct, misplaced or misspelt Rule or T outside of Rules defs, not a Rule in chained dispatcher expr, Empty file no grammar constructs present, term not a lhs or parallel-control-monitor kw.

147. LA set: 5.

|?|, |r|.

148. LA set: 6.

|?|, }.

149. LA set: 7.

|r|, |.|, {.

150. LA set: 8.

$\{?, |x|, |.|, \}$.

151. LA set: 9.

$|x|$.

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subrule_def_idx.w

Date: January 14, 2015 at 15:42

File: subrule_def_idx.w

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- > :	4	1
:::	5	1
NS_cweb_or_c_k::TH_cweb_or_c_k:	6	1
NS_dbl_colon::TH_dbl_colon:	7	1
NS_identifier::TH_identifier:	8	1
NS_lint_balls::TH_lint_balls:	9	1
NS_o2_sdc::TH_o2_sdc:	10	1
NS_parallel_oper::TH_parallel_oper:	11	1
NS_rhs_bnd::TH_rhs_bnd:	12	1
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