

**1. Copyright.**

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**2. *term\_def\_ph* grammar.**

parse terminal-def phrase.

**3. Fsm Cterm\_def\_ph class.****4. Cterm\_def\_ph constructor directive.**

⟨Cterm\_def\_ph constructor directive 4⟩ ≡  
*term\_def\_* = 0;

**5. Cterm\_def\_ph op directive.**

⟨Cterm\_def\_ph op directive 5⟩ ≡  
**if** (*term\_def\_* ≠ 0) {  
  **delete** *term\_def\_*;  
  *term\_def\_* = 0;  
}  
*term\_def\_* = **new** *T\_terminal\_def*;  
*term\_def\_*→*set\_rc*(\**parser\_*→*start\_token\_*, \_\_FILE\_\_, \_\_LINE\_\_);

**6. Cterm\_def\_ph user-declaration directive.**

⟨Cterm\_def\_ph user-declaration directive 6⟩ ≡  
**public: void** *add\_sdc\_to\_directive*(*CAbs\_lr1\_sym* \* *Dir*, *T\_syntax\_code* \* *Sdc*);  
  *T\_terminal\_def* \* *term\_def\_*;

**7. Cterm\_def\_ph user-implementation directive.**

⟨Cterm\_def\_ph user-implementation directive 7⟩ ≡  
**void** *Cterm\_def\_ph* :: *add\_sdc\_to\_directive*(*CAbs\_lr1\_sym* \* *Dir*, *T\_syntax\_code* \* *Sdc*) { **using namespace**  
  **NS\_yacco2\_T\_enum**;  
  **using namespace** **NS\_yacco2\_terminals**;  
  *yacco2* :: **INT** *eid* = *Dir*→*enumerated\_id\_*; **switch** (*eid*) { **case** *T\_Enum* :: *T\_T\_user\_declaration\_*: {  
    *T\_user\_declaration* \* *k* = (*T\_user\_declaration* \*) *Dir*;  
    *k*→*syntax\_code*(*Sdc*);  
    **break;** } **case** *T\_Enum* :: *T\_T\_constructor\_*: { *T\_constructor* \* *k* = (*T\_constructor* \*) *Dir*;  
    *k*→*syntax\_code*(*Sdc*);  
    **break;** } **case** *T\_Enum* :: *T\_T\_destructor\_*: { *T\_destructor* \* *k* = (*T\_destructor* \*) *Dir*;  
    *k*→*syntax\_code*(*Sdc*);  
    **break;** } **case** *T\_Enum* :: *T\_T\_op\_*: { *T\_op* \* *k* = (*T\_op* \*) *Dir*;  
    *k*→*syntax\_code*(*Sdc*);  
    **break;** } **case** *T\_Enum* :: *T\_T\_user\_implementation\_*: { *T\_user\_implementation* \* *k* = (  
      *T\_user\_implementation* \*) *Dir*;  
    *k*→*syntax\_code*(*Sdc*);  
    **break;** }  
  **default:**  
  {  
    *CAbs\_lr1\_sym* \* *sym* = **new** *Err\_improper\_directive*;  
    *sym*→*set\_rc*(\**Dir*, \_\_FILE\_\_, \_\_LINE\_\_);  
    *RSVP\_FSM*(*sym*);  
    *parser\_*→*set\_stop\_parse*(*true*);  
  }  
} }

### 8. Cterm\_def\_ph user-prefix-declaration directive.

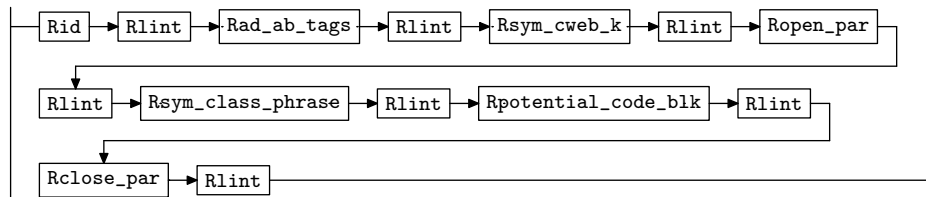
```

⟨ Cterm_def_ph user-prefix-declaration directive 8 ⟩ ≡
#include "lint_balls.h"
#include "identifier.h"
#include "c_string.h"
#include "t_def_delabort_tags.h"
#include "terminal_def_symclass.h"
#include "o2_sdc.h"
#include "yacco2_stbl.h"
#include "o2_externs.h"
#include "cweb_or_c_k.h"

```

### 9. Rterminal\_def\_phrase rule.

Rterminal\_def\_phrase



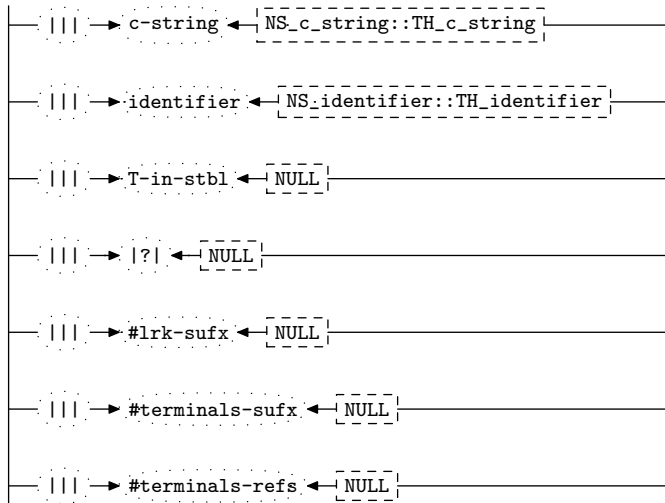
```

⟨ Rterminal_def_phrase subrule 1 op directive 9 ⟩ ≡
Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info__parser__fsm_tbl__;
RSVP(fsm-term_def-); /* add to global symbol table */
const char *skey = fsm-term_def->t_name()->c_str();
T_sym_tbl_report_card report_card;
T_in_stbl * tin = new T_in_stbl(fsm-term_def-, rule_info__parser__start_token__, rule_info__parser__);
STBL_T_ITEMS.push_back(tin);
using namespace yacco2_stbl;
add_sym_to_stbl(report_card, *skey, *tin, table_entry::defed, table_entry::terminal);
if (report_card.status_ ≠ T_sym_tbl_report_card::okay) {
    report_card.err_entry->set_rc(*rule_info__parser__start_token__, __FILE__, __LINE__);
    ADD_TOKEN_TO_ERROR_QUEUE(*report_card.err_entry-);
    rule_info__parser__set_stop_parse(true);
    return;
}
tin->stbl_idx(report_card.pos_);
fsm-term_def_ = 0;

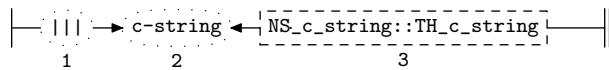
```

## 10. Rid rule.

Rid



## 11. Rid's subrule 1.



⟨Rid subrule 1 op directive 11⟩ ≡

```
Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info__parser__fsm_tbl__;
```

```
const char *skey = sf-p2__c_string()-c_str();
```

```
fsm-term_def-t_name(skey);
```

```
sf-p2__set_auto_delete(true);
```

```
T_sym_tbl_report_card report_card;
```

```
using namespace yacco2_stbl;
```

```
find_sym_in_stbl(report_card, *skey);
```

```
if (report_card.action_ ≡ T_sym_tbl_report_card::fnd) {
```

```
CAbs_lr1_sym * sym = new Err_dup_entry_in_sym_table;
```

```
sym-set_rc(*sf-p2__, __FILE__, __LINE__);
```

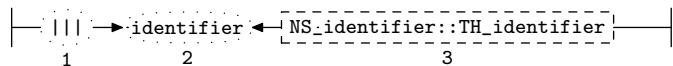
```
RSVP(sym);
```

```
rule_info__parser__set_stop_parse(true);
```

```
return;
```

```
}
```

## 12. Rid's subrule 2.



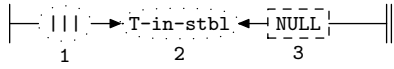
⟨Rid subrule 2 op directive 12⟩ ≡

```
Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info__parser__fsm_tbl__;
```

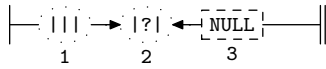
```
const char *skey = sf-p2__identifier()-c_str();
```

```
fsm-term_def-t_name(skey);
```

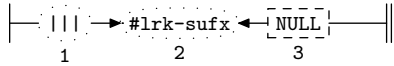
```
sf-p2__set_auto_delete(true);
```

**13. Rid's subrule 3.**

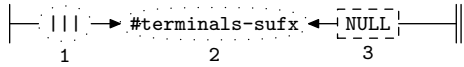
⟨Rid subrule 3 op directive 13⟩ ≡  
*CAbs\_lr1\_sym* \* *sym* = **new** *Err\_dup\_entry\_in\_sym\_table*;  
*sym*→*set\_rc*(\**sf*→*p2*→, \_\_FILE\_\_, \_\_LINE\_\_);  
*RSVP*(*sym*);  
*rule\_info*→*parser*→*set\_stop\_parse*(*true*);  
**return**;

**14. Rid's subrule 4.**

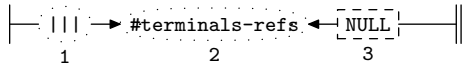
⟨Rid subrule 4 op directive 14⟩ ≡  
*RSVP*(*sf*→*p2*→);  
*rule\_info*→*parser*→*set\_stop\_parse*(*true*);

**15. Rid's subrule 5.**

⟨Rid subrule 5 op directive 15⟩ ≡  
*sf*→*p2*→*set\_auto\_delete*(*true*);  
*rule\_info*→*parser*→*set\_abort\_parse*(*true*);

**16. Rid's subrule 6.**

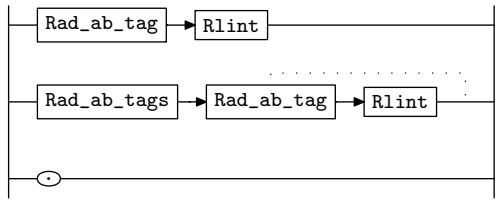
⟨Rid subrule 6 op directive 16⟩ ≡  
*sf*→*p2*→*set\_auto\_delete*(*true*);  
*rule\_info*→*parser*→*set\_abort\_parse*(*true*);

**17. Rid's subrule 7.**

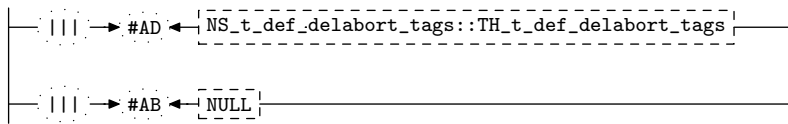
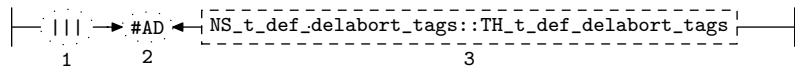
⟨Rid subrule 7 op directive 17⟩ ≡  
*sf*→*p2*→*set\_auto\_delete*(*true*);  
*rule\_info*→*parser*→*set\_abort\_parse*(*true*);

18. *Rad\_ab\_tags* rule.

Rad\_ab\_tags

19. *Rad\_ab\_tag* rule.

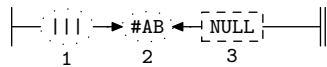
Rad\_ab\_tag

20. *Rad\_ab\_tag*'s subrule 1.

```

⟨Rad_ab_tag subrule 1 op directive 20⟩ ≡
  Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info__parser__fsm_tbl__;
  if (fsm→term_def_→autodelete() ≡ true) {
    CAbs_lr1_sym * sym = new Err_already_defined_AD;
    sym→set_rc(*sf→p2__, __FILE__, __LINE__);
    RSVP(sym);
    rule_info__parser__→set_stop_parse(true);
    return;
  }
  fsm→term_def_→autodelete(true);

```

21. *Rad\_ab\_tag*'s subrule 2.

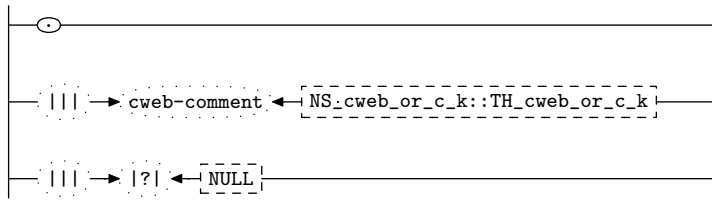
```

⟨Rad_ab_tag subrule 2 op directive 21⟩ ≡
  Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info__parser__fsm_tbl__;
  if (fsm→term_def_→autoabort() ≡ true) {
    CAbs_lr1_sym * sym = new Err_already_defined_AB;
    sym→set_rc(*sf→p2__, __FILE__, __LINE__);
    RSVP(sym);
    rule_info__parser__→set_stop_parse(true);
    return;
  }
  fsm→term_def_→autoabort(true);

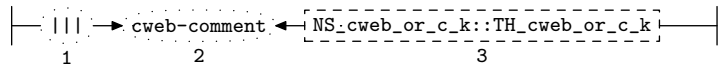
```

**22. Rsym\_cweb\_k rule.**

Rsym\_cweb\_k



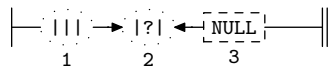
**23. Rsym\_cweb\_k's subrule 2.**



```

⟨ Rsym_cweb_k subrule 2 op directive 23 ⟩ ≡
  Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info__parser__fsm_tbl__ ;
  T_cweb_comment * k = sf-p2__ ;
  AST * cwebk_t_ = new AST(*k);
  AST * cweb_t_ = new AST();
  T_cweb_marker * cw = new T_cweb_marker(cweb_t_);
  AST::set_content(*cweb_t_, *cw);
  AST::join_pts(*cweb_t_, *cwebk_t_);
  cw-set_rc(*k, __FILE__, __LINE__);
  AST::set_content(*cweb_t_, *cw);
  fsm-term_def-add_cweb_marker(cw-ast());
  
```

**24. Rsym\_cweb\_k's subrule 3.**

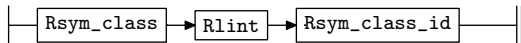


```

⟨ Rsym_cweb_k subrule 3 op directive 24 ⟩ ≡
  RSVP(sf-p2__);
  rule_info__parser__set_stop_parse(true);
  
```

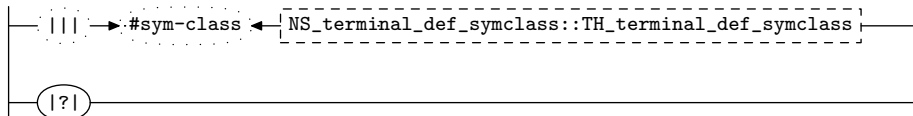
**25. Rsym\_class\_phrase rule.**

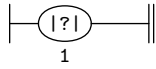
Rsym\_class\_phrase



**26. Rsym\_class rule.**

Rsym\_class

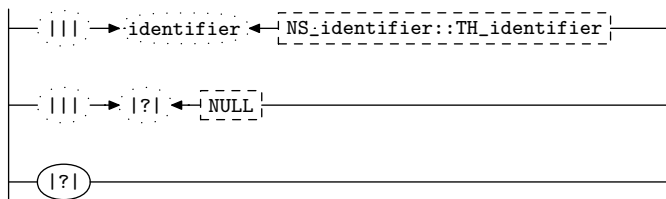
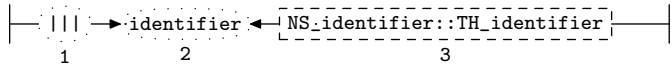


**27. *Rsym\_class*'s subrule 2.**

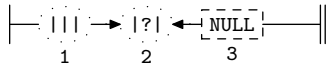
⟨ *Rsym\_class* subrule 2 op directive 27 ⟩ ≡  
`CAbs_lr1_sym * sym = new Err_no_sym_class_present;`  
`sym->set_rc(*rule_info_.parser->current_token(), __FILE__, __LINE__);`  
`RSVP(sym);`  
`rule_info_.parser->set_stop_parse(true);`

**28. *Rsym\_class\_id* rule.**

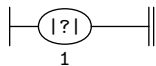
*Rsym\_class\_id*

**29. *Rsym\_class\_id*'s subrule 1.**

⟨ *Rsym\_class\_id* subrule 1 op directive 29 ⟩ ≡  
`Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info_.parser->fsm_tbl_;`  
`fsm->term_def->classsym(sf->p2->identifier()->c_str());`  
`sf->p2->set_auto_delete(true);`

**30. *Rsym\_class\_id*'s subrule 2.**

⟨ *Rsym\_class\_id* subrule 2 op directive 30 ⟩ ≡  
`sf->p2->set_auto_delete(true);`  
`CAbs_lr1_sym * sym = new Err_no_sym_class_id_present;`  
`sym->set_rc(*sf->p2, __FILE__, __LINE__);`  
`RSVP(sym);`  
`rule_info_.parser->set_stop_parse(true);`

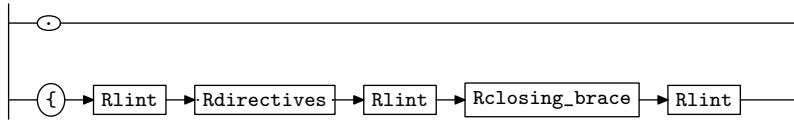
**31. *Rsym\_class\_id*'s subrule 3.**

⟨ *Rsym\_class\_id* subrule 3 op directive 31 ⟩ ≡  
`CAbs_lr1_sym * sym = new Err_no_sym_class_id_present;`  
`sym->set_rc(*rule_info_.parser->current_token(), __FILE__, __LINE__);`  
`RSVP(sym);`  
`rule_info_.parser->set_stop_parse(true);`



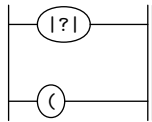
**32. Rpotential\_code\_blk rule.**

Rpotential\_code\_blk

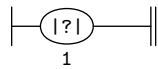


**33. Ropen\_par rule.**

Ropen\_par



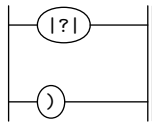
**34. Ropen\_par's subrule 1.**



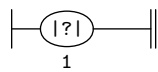
⟨Ropen\_par subrule 1 op directive 34⟩ ≡  
*CAbs\_lr1\_sym* \* *sym* = **new** *Err\_no\_open\_parenthesis*;  
*sym*→*set\_rc*(\**rule\_info*→*parser*→*current\_token*(), \_\_FILE\_\_, \_\_LINE\_\_);  
*RSVP*(*sym*);  
*rule\_info*→*parser*→*set\_stop\_parse*(*true*);

**35. Rclose\_par rule.**

Rclose\_par



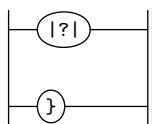
**36. Rclose\_par's subrule 1.**



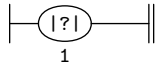
⟨Rclose\_par subrule 1 op directive 36⟩ ≡  
*CAbs\_lr1\_sym* \* *sym* = **new** *Err\_no\_close\_parenthesis*;  
*sym*→*set\_rc*(\**rule\_info*→*parser*→*current\_token*(), \_\_FILE\_\_, \_\_LINE\_\_);  
*RSVP*(*sym*);  
*rule\_info*→*parser*→*set\_stop\_parse*(*true*);

**37. Rclosing\_brace rule.**

Rclosing\_brace



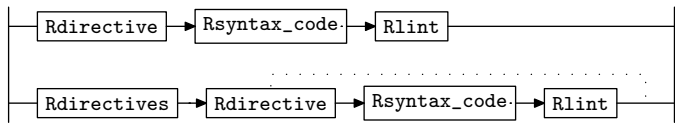
**38. Rclosing\_brace's subrule 1.**



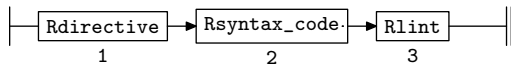
$\langle$  Rclosing\_brace subrule 1 op directive 38  $\rangle \equiv$   
 $C_{Abs\_lr1\_sym} * sym = \mathbf{new} \ Err\_no\_close\_brace;$   
 $sym \rightarrow set\_rc(*rule\_info\_parser \rightarrow current\_token(), \_FILE\_, \_LINE\_);$   
 $RSVP(sym);$   
 $rule\_info\_parser \rightarrow set\_stop\_parse(true);$

**39. Rdirectives rule.**

Rdirectives

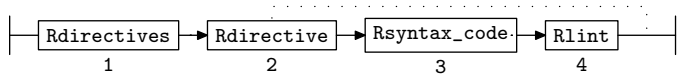


**40. Rdirectives's subrule 1.**



$\langle$  Rdirectives subrule 1 op directive 40  $\rangle \equiv$   
 $Rdirective * dir = sf-p1\_;$   
 $Rsyntax\_code * sdc = sf-p2\_;$   $Cterm\_def\_ph * fsm = ( Cterm\_def\_ph * ) rule\_info\_parser \rightarrow fsm\_tbl\_;$   
 $fsm \rightarrow add\_sdc\_to\_directive(dir \rightarrow directive_, sdc \rightarrow syntax\_code_);$

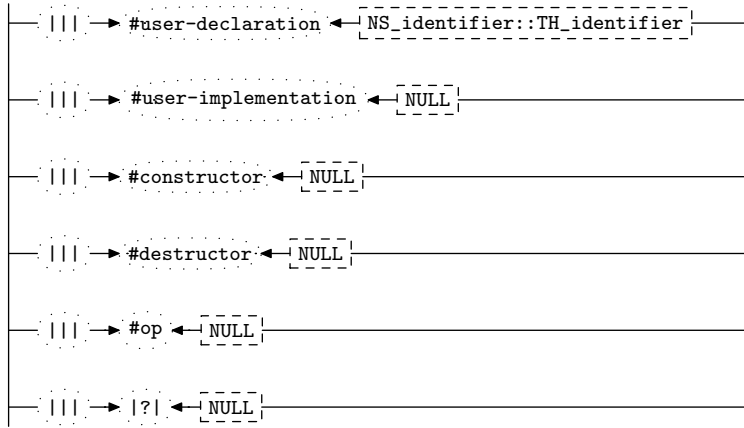
**41. Rdirectives's subrule 2.**



$\langle$  Rdirectives subrule 2 op directive 41  $\rangle \equiv$   
 $Rdirective * dir = sf-p2\_;$   
 $Rsyntax\_code * sdc = sf-p3\_;$   $Cterm\_def\_ph * fsm = ( Cterm\_def\_ph * ) rule\_info\_parser \rightarrow fsm\_tbl\_;$   
 $fsm \rightarrow add\_sdc\_to\_directive(dir \rightarrow directive_, sdc \rightarrow syntax\_code_);$

**42. Rdirective rule.**

Rdirective



**43. Rdirective op directive.**

```

⟨ Rdirective op directive 43 ⟩ ≡
  if (directive_ ≡ 0) return;
  Cterm_def_ph * fsm = ( Cterm_def_ph * ) rule_info_...parser_...fsm_tbl_;
  CAbs_lr1_sym * result = fsm->term_def->add_directive_to_map(directive_, rule_info_...parser_...);
  if (result ≡ 0) return; /* ok added */
  directive_>set_auto_delete(true); /* dup: delete when popped from stack */
  RSVP(result);
  rule_info_...parser_...>set_stop_parse(true);

```

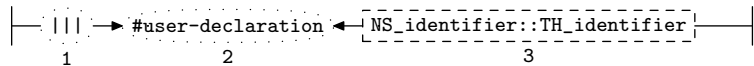
**44. Rdirective user-declaration directive.**

```

⟨ Rdirective user-declaration directive 44 ⟩ ≡
  CAbs_lr1_sym * directive_;

```

**45. Rdirective's subrule 1.**

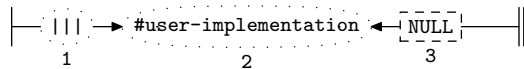


```

⟨ Rdirective subrule 1 op directive 45 ⟩ ≡
  directive_ = sf-p2_...;

```

**46. Rdirective's subrule 2.**

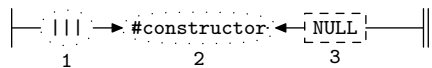


```

⟨ Rdirective subrule 2 op directive 46 ⟩ ≡
  directive_ = sf-p2_...;

```

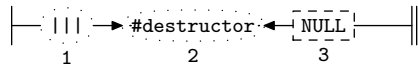
**47. Rdirective's subrule 3.**



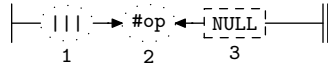
```

⟨ Rdirective subrule 3 op directive 47 ⟩ ≡
  directive_ = sf-p2_...;

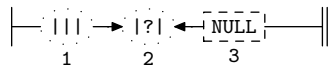
```

**48. *Rdirective's subrule 4.***

⟨Rdirective subrule 4 op directive 48⟩ ≡  
*directive\_ = sf-p2\_;*

**49. *Rdirective's subrule 5.***

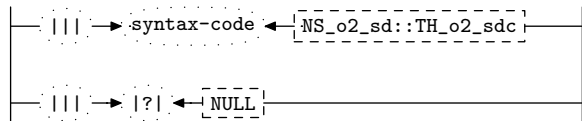
⟨Rdirective subrule 5 op directive 49⟩ ≡  
*directive\_ = sf-p2\_;*

**50. *Rdirective's subrule 6.***

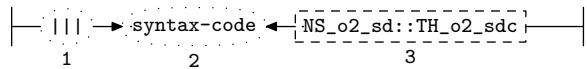
⟨Rdirective subrule 6 op directive 50⟩ ≡  
*directive\_ = 0;*  
*sf-p2\_→set\_auto\_delete(true);*  
*CAbs\_lr1\_sym \* sym = new Err\_bad\_directive;*  
*sym→set\_rc(\*sf-p2\_, \_\_FILE\_\_, \_\_LINE\_\_);*  
*RSVP(sym);*  
*rule\_info...parser\_→set\_stop\_parse(true);*

**51. *Rsyntax\_code rule.***

*Rsyntax\_code*

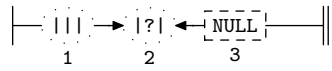
**52. *Rsyntax\_code user-declaration directive.***

⟨Rsyntax\_code user-declaration directive 52⟩ ≡  
*T\_syntax\_code \* syntax\_code\_;*

**53. *Rsyntax\_code's subrule 1.***

⟨Rsyntax\_code subrule 1 op directive 53⟩ ≡  
*syntax\_code\_ = sf-p2\_;*

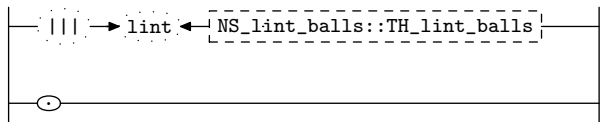
54. *Rsyntax\_code*'s subrule 2.



$\langle \text{Rsyntax\_code subrule 2 op directive 54} \rangle \equiv$   
`syntax_code_ = 0;`  
`RSVP(sf-p2_);`  
`rule_info_.parser--set_stop_parse(true);`

55. *Rlint* rule.

**Rlint**



**56. First Set Language for  $O_2^{linker}$ .**

```
/*
  File: term_def_ph.fsc
  Date and Time: Fri Jan  2 15:33:58 2015
*/
transitive      y
grammar-name    "term_def_ph"
name-space     "NS_term_def_ph"
thread-name    "TH_term_def_ph"
monolithic     n
file-name      "term_def_ph.fsc"
no-of-T        569
list-of-native-first-set-terminals 0
end-list-of-native-first-set-terminals
list-of-transitive-threads 2
  NS_identifier::TH_identifier
  NS_c_string::TH_c_string
end-list-of-transitive-threads
list-of-used-threads 7
  NS_c_string::TH_c_string
  NS_cweb_or_c_k::TH_cweb_or_c_k
  NS_identifier::TH_identifier
  NS_lint_balls::TH_lint_balls
  NS_o2_sd::TH_o2_sdc
  NS_t_def_delabort_tags::TH_t_def_delabort_tags
  NS_terminal_def_symclass::TH_terminal_def_symclass
end-list-of-used-threads
fsm-comments
"Parse a terminal symbol."
```

## 57. Lr1 State Network.

$\Rightarrow$					State: 1 state type: $s$				
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
c	Rid		2	1	1		c-string NS.c_string::TH.c_string		1 2 4
c	Rid		2	2	1		identifier NS.identifier::TH.identifier		1 2 5
c	Rid		2	3	1		T-in-stbl NULL		1 2 9
c	Rid		2	5	1		# lrk-sufx NULL		1 2 8
c	Rid		2	7	1		# terminals-refs NULL		1 2 6
c	Rid		2	4	1		?  NULL		1 2 3
c	Rid		2	6	1		# terminals-sufx NULL		1 2 7
c	Rterminal_def_phrase		1	1	1	Rid	<u>Rlint</u> <sup><math>\epsilon</math></sup> <u>Rad.ab.tags</u> <sup><math>\epsilon</math></sup> ...		1 10 30
$\Rightarrow$		arbitration-code: $\epsilon$					State: 2 state type: $s$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	4	2	?			1 3 3
t	Rid		2	1	2	c-string			1 4 4
t	Rid		2	2	2	identifier			1 5 5
t	Rid		2	7	2	# terminals-refs			1 6 6
t	Rid		2	6	2	# terminals-sufx			1 7 7
t	Rid		2	5	2	# lrk-sufx			1 8 8
t	Rid		2	3	2	T-in-stbl			1 9 9
$\Rightarrow$	?						State: 3 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	4	3				1 0 3 1
$\Rightarrow$	c-string						State: 4 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	1	3				1 0 4 1
$\Rightarrow$	identifier						State: 5 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	2	3				1 0 5 1
$\Rightarrow$	#terminals-refs						State: 6 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	7	3				1 0 6 1
$\Rightarrow$	#terminals-sufx						State: 7 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	6	3				1 0 7 1
$\Rightarrow$	#lrk-sufx						State: 8 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	5	3				1 0 8 1
$\Rightarrow$	T-in-stbl						State: 9 state type: $r$		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA
t	Rid		2	3	3				1 0 9 1
$\Rightarrow$	Rid						State: 10 state type: $s/r$		

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		16	2	1		ε		10	0	10	1
c	Rlint		16	1	1		lint NS_lint_balls::TH_lint_balls		10	29	16	
t	Rterminal_def_phrase		1	1	2	Rlint	<u>Rad.ab.tags</u> <sup>ε</sup> <u>Rlint</u> <sup>ε</sup> ...		1	11	30	
⇒ <i>Rlint</i> State: 11 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rad.ab.tags		3	3	1		ε		11	0	11	1
c	Rad.ab.tag		4	1	1		# AD NS_t_def_delabort_tags::TH_t_def_delabort_tags		11	31	14	
c	Rad.ab.tag		4	2	1		# AB NULL		11	31	15	
t	Rterminal_def_phrase		1	1	3	Rad.ab.tags	<u>Rlint</u> <sup>ε</sup> <u>Rsym_cweb.k</u> <sup>ε</sup> ...		1	12	30	
c	Rad.ab.tags		3	2	1	Rad.ab.tags	<u>Rad.ab.tag</u>		11	12	33	
c	Rad.ab.tags		3	1	1	Rad.ab.tag	<u>Rlint</u> <sup>ε</sup>		11	34	35	
⇒ <i>Rad.ab.tags</i> State: 12 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		16	2	1		ε		12	0	12	2
c	Rad.ab.tag		4	1	1		# AD NS_t_def_delabort_tags::TH_t_def_delabort_tags		12	13	14	
c	Rlint		16	1	1		lint NS_lint_balls::TH_lint_balls		12	13	16	
c	Rad.ab.tag		4	2	1		# AB NULL		12	13	15	
t	Rad.ab.tags		3	2	2	Rad.ab.tag	<u>Rlint</u> <sup>ε</sup>		11	32	33	
t	Rterminal_def_phrase		1	1	4	Rlint	<u>Rsym_cweb.k</u> <sup>ε</sup> <u>Rlint</u> <sup>ε</sup> ...		1	17	30	
⇒ <i>    arbitration-code: ε</i> State: 13 state type: <i>s</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rad.ab.tag		4	1	2	# AD			12	14	14	
t	Rad.ab.tag		4	2	2	# AB			12	15	15	
t	Rlint		16	1	2	lint			12	16	16	
⇒ <i>#AD</i> State: 14 state type: <i>r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rad.ab.tag		4	1	3				12	0	14	1
⇒ <i>#AB</i> State: 15 state type: <i>r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rad.ab.tag		4	2	3				12	0	15	1
⇒ <i>lint</i> State: 16 state type: <i>r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlint		16	1	3				12	0	16	2
⇒ <i>Rlint</i> State: 17 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rsym_cweb.k		5	1	1		ε		17	0	17	1
c	Rsym_cweb.k		5	2	1		cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k		17	36	38	
c	Rsym_cweb.k		5	3	1		?  NULL		17	36	37	
t	Rterminal_def_phrase		1	1	5	Rsym_cweb.k	<u>Rlint</u> <sup>ε</sup> <u>Ropen.par</u>		1	18	30	
⇒ <i>Rsym_cweb.k</i> State: 18 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		16	2	1		ε		18	0	18	3
c	Rlint		16	1	1		lint NS_lint_balls::TH_lint_balls		18	29	16	



t	Rterminal_def_phrase	1	1	6	Rlint	<u>Ropen_par</u>		1	19	30		
$\Rightarrow$ <i>Rlint</i>												
State: 19 state type: <i>s</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ropen_par		10	1	1		?		19	39	39	
c	Ropen_par		10	2	1		(		19	40	40	
t	Rterminal_def_phrase		1	1	7		Ropen_par <u>Rlint<sup>ε</sup> Rsym_class_phrase</u>		1	20	30	
$\Rightarrow$ <i>Ropen_par</i>												
State: 20 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		16	2	1		ε		20	0	20	4
c	Rlint		16	1	1		lint NS lint_balls::TH lint_balls		20	29	16	
t	Rterminal_def_phrase		1	1	8		Rlint <u>Rsym_class_phrase</u>		1	21	30	
$\Rightarrow$ <i>Rlint</i>												
State: 21 state type: <i>s</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rsym_class		7	2	1		?		21	41	41	
c	Rsym_class		7	1	1		# sym-class NS_terminal_def_symclass::TH_terminal_def_symclass		21	42	43	
t	Rterminal_def_phrase		1	1	9		Rsym_class_phrase <u>Rlint<sup>ε</sup> Rpotential_code_blk<sup>ε</sup> ...</u>		1	22	30	
c	Rsym_class_phrase		6	1	1		Rsym_class <u>Rlint<sup>ε</sup> Rsym_class_id</u>		21	44	50	
$\Rightarrow$ <i>Rsym_class_phrase</i>												
State: 22 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		16	2	1		ε		22	0	22	5
c	Rlint		16	1	1		lint NS lint_balls::TH lint_balls		22	29	16	
t	Rterminal_def_phrase		1	1	10		Rlint <u>Rpotential_code_blk<sup>ε</sup> Rlint<sup>ε</sup> ...</u>		1	23	30	
$\Rightarrow$ <i>Rlint</i>												
State: 23 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rpotential_code_blk		9	1	1		ε		23	0	23	6
c	Rpotential_code_blk		9	2	1		{		23	51	64	
t	Rterminal_def_phrase		1	1	11		Rpotential_code_blk <u>Rlint<sup>ε</sup> Rclose_par</u>		1	24	30	
$\Rightarrow$ <i>Rpotential_code_blk</i>												
State: 24 state type: <i>s/r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		16	2	1		ε		24	0	24	7
c	Rlint		16	1	1		lint NS lint_balls::TH lint_balls		24	29	16	
t	Rterminal_def_phrase		1	1	12		Rlint <u>Rclose_par</u>		1	25	30	
$\Rightarrow$ <i>Rlint</i>												
State: 25 state type: <i>s</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rclose_par		11	1	1		?		25	26	26	
c	Rclose_par		11	2	1		)		25	27	27	
t	Rterminal_def_phrase		1	1	13		Rclose_par <u>Rlint<sup>ε</sup></u>		1	28	30	
$\Rightarrow$ <i> ? </i>												
State: 26 state type: <i>r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rclose_par		11	1	2				25	0	26	2
$\Rightarrow$ <i>)</i>												
State: 27 state type: <i>r</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rclose_par		11	2	2				25	0	27	2

$\Rightarrow$ <i>Rclose_par</i>		State: 28 state type: <i>s/r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
c Rlint	16 2 1 $\epsilon$		28 0 28 2
c Rlint	16 1 1     lint NS_lint_balls::TH_lint_balls		28 29 16
t Rterminal_def_phrase	1 1 14 Rlint		1 30 30
$\Rightarrow$     <i>arbitration-code: <math>\epsilon</math></i>		State: 29 state type: <i>s</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rlint	16 1 2 lint		28 16 16
$\Rightarrow$ <i>Rlint</i>		State: 30 state type: <i>r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rterminal_def_phrase	1 1 15		1 0 30 2
$\Rightarrow$     <i>arbitration-code: <math>\epsilon</math></i>		State: 31 state type: <i>s</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rad_ab_tag	4 1 2 # AD		11 14 14
t Rad_ab_tag	4 2 2 # AB		11 15 15
$\Rightarrow$ <i>Rad_ab_tag</i>		State: 32 state type: <i>s/r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
c Rlint	16 2 1 $\epsilon$		32 0 32 1
c Rlint	16 1 1     lint NS_lint_balls::TH_lint_balls		32 29 16
t Rad_ab_tags	3 2 3 Rlint		11 33 33
$\Rightarrow$ <i>Rlint</i>		State: 33 state type: <i>r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rad_ab_tags	3 2 4		11 0 33 1
$\Rightarrow$ <i>Rad_ab_tag</i>		State: 34 state type: <i>s/r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
c Rlint	16 2 1 $\epsilon$		34 0 34 1
c Rlint	16 1 1     lint NS_lint_balls::TH_lint_balls		34 29 16
t Rad_ab_tags	3 1 2 Rlint		11 35 35
$\Rightarrow$ <i>Rlint</i>		State: 35 state type: <i>r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rad_ab_tags	3 1 3		11 0 35 1
$\Rightarrow$     <i>arbitration-code: <math>\epsilon</math></i>		State: 36 state type: <i>s</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rsym_cweb_k	5 3 2  ?		17 37 37
t Rsym_cweb_k	5 2 2 cweb-comment		17 38 38
$\Rightarrow$  ?		State: 37 state type: <i>r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rsym_cweb_k	5 3 3		17 0 37 1
$\Rightarrow$ <i>cweb-comment</i>		State: 38 state type: <i>r</i>	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rsym_cweb_k	5 2 3		17 0 38 1

$\Rightarrow$  ?					State: 39 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Ropen_par	10 1 2					19 0 39 4	
$\Rightarrow$ (					State: 40 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Ropen_par	10 2 2					19 0 40 4	
$\Rightarrow$  ?					State: 41 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class	7 2 2					21 0 41 4	
$\Rightarrow$     <i>arbitration-code: <math>\epsilon</math></i>					State: 42 state type: $s$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class	7 1 2 # sym-class					21 43 43	
$\Rightarrow$ # <i>sym-class</i>					State: 43 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class	7 1 3					21 0 43 4	
$\Rightarrow$ <i>Rsym_class</i>					State: 44 state type: $s/r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
c Rlint	16 2 1 $\epsilon$					44 0 44 4	
c Rlint	16 1 1     lint NS_lint_balls::TH_lint_balls					44 29 16	
t Rsym_class_phrase	6 1 2 Rlint <u><i>Rsym_class_id</i></u>					21 45 50	
$\Rightarrow$ <i>Rlint</i>					State: 45 state type: $s$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
c Rsym_class_id	8 3 1  ?					45 46 46	
c Rsym_class_id	8 1 1     identifier NS_identifier::TH_identifier					45 47 49	
c Rsym_class_id	8 2 1      ?  NULL					45 47 48	
t Rsym_class_phrase	6 1 3 Rsym_class_id					21 50 50	
$\Rightarrow$  ?					State: 46 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class_id	8 3 2					45 0 46 5	
$\Rightarrow$     <i>arbitration-code: <math>\epsilon</math></i>					State: 47 state type: $s$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class_id	8 2 2  ?					45 48 48	
t Rsym_class_id	8 1 2 identifier					45 49 49	
$\Rightarrow$  ?					State: 48 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class_id	8 2 3					45 0 48 5	
$\Rightarrow$ <i>identifier</i>					State: 49 state type: $r$		
← rule	→ R# sr# Po ←				subrule element	→ Brn Gto Red LA	
t Rsym_class_id	8 1 3					45 0 49 5	
$\Rightarrow$ <i>Rsym_class_id</i>					State: 50 state type: $r$		

← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
t Rsym_class_phrase	6 1 4		21 0 50 5
⇒{ State: 51 state type: $s/r$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
c Rlint	16 2 1	ε	51 0 51 8
c Rlint	16 1 1	lint NS_lint_balls::TH_lint_balls	51 29 16
t Rpotential_code_blk	9 2 2	Rlint <u>Rdirectives</u>	23 52 64
⇒ <u>Rlint</u> State: 52 state type: $s$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
c Rdirective	14 5 1	# op NULL	52 65 70
c Rdirective	14 2 1	# user-implementation NULL	52 65 71
c Rdirective	14 6 1	?  NULL	52 65 66
c Rdirective	14 1 1	# user-declaration NS_identifier::TH_identifier	52 65 67
c Rdirective	14 3 1	# constructor NULL	52 65 68
c Rdirective	14 4 1	# destructor NULL	52 65 69
t Rpotential_code_blk	9 2 3	Rdirectives <u>Rlint</u> <sup>ε</sup> <u>Rclosing_brace</u>	23 53 64
c Rdirectives	13 2 1	Rdirectives <u>Rdirective</u>	52 53 59
c Rdirectives	13 1 1	Rdirective <u>Rsyntax_code</u>	52 72 74
⇒ <u>Rdirectives</u> State: 53 state type: $s/r$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
c Rlint	16 2 1	ε	53 0 53 9
c Rdirective	14 5 1	# op NULL	53 75 70
c Rdirective	14 2 1	# user-implementation NULL	53 75 71
c Rdirective	14 6 1	?  NULL	53 75 66
c Rlint	16 1 1	lint NS_lint_balls::TH_lint_balls	53 75 16
c Rdirective	14 1 1	# user-declaration NS_identifier::TH_identifier	53 75 67
c Rdirective	14 3 1	# constructor NULL	53 75 68
c Rdirective	14 4 1	# destructor NULL	53 75 69
t Rdirectives	13 2 2	Rdirective <u>Rsyntax_code</u>	52 54 59
t Rpotential_code_blk	9 2 4	Rlint <u>Rclosing_brace</u>	23 60 64
⇒ <u>Rdirective</u> State: 54 state type: $s$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
c Rsyntax_code	15 2 1	?  NULL	54 55 56
c Rsyntax_code	15 1 1	syntax-code NS_o2_sd::TH_o2_sdc	54 55 57
t Rdirectives	13 2 3	Rsyntax_code <u>Rlint</u> <sup>ε</sup>	52 58 59
⇒    <u>arbitration-code</u> : ε State: 55 state type: $s$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
t Rsyntax_code	15 2 2	?	54 56 56
t Rsyntax_code	15 1 2	syntax-code	54 57 57
⇒ ?  State: 56 state type: $r$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
t Rsyntax_code	15 2 3		54 0 56 10
⇒ <u>syntax-code</u> State: 57 state type: $r$			
← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
t Rsyntax_code	15 1 3		54 0 57 10

$\Rightarrow$ <i>Rsyntax_code</i>					State: 58 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rlint	16	2	1	ε			58	0	58	10
c Rlint	16	1	1	lint NS_lint_balls::TH_lint_balls			58	29	16	
t Rdirectives	13	2	4	Rlint			52	59	59	
$\Rightarrow$ <i>Rlint</i>					State: 59 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirectives	13	2	5				52	0	59	10
$\Rightarrow$ <i>Rlint</i>					State: 60 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rclosing_brace	12	1	1	?			60	61	61	
c Rclosing_brace	12	2	1	}			60	62	62	
t Rpotential_code_blk	9	2	5	Rclosing_brace <u>Rlint</u> <sup>ε</sup>			23	63	64	
$\Rightarrow$ <i> ? </i>					State: 61 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rclosing_brace	12	1	2				60	0	61	6
$\Rightarrow$ <i>}</i>					State: 62 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rclosing_brace	12	2	2				60	0	62	6
$\Rightarrow$ <i>Rclosing_brace</i>					State: 63 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rlint	16	2	1	ε			63	0	63	6
c Rlint	16	1	1	lint NS_lint_balls::TH_lint_balls			63	29	16	
t Rpotential_code_blk	9	2	6	Rlint			23	64	64	
$\Rightarrow$ <i>Rlint</i>					State: 64 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rpotential_code_blk	9	2	7				23	0	64	6
$\Rightarrow$ <i>    arbitration-code: ε</i>					State: 65 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirective	14	6	2	?			52	66	66	
t Rdirective	14	1	2	# user-declaration			52	67	67	
t Rdirective	14	3	2	# constructor			52	68	68	
t Rdirective	14	4	2	# destructor			52	69	69	
t Rdirective	14	5	2	# op			52	70	70	
t Rdirective	14	2	2	# user-implementation			52	71	71	
$\Rightarrow$ <i> ? </i>					State: 66 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirective	14	6	3				52	0	66	8
$\Rightarrow$ <i>#user-declaration</i>					State: 67 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirective	14	1	3				52	0	67	8

$\Rightarrow$ <i>#constructor</i>					State: 68 state type: <i>r</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
t Rdirective	14 3 3						52 0 68 8	
$\Rightarrow$ <i>#destructor</i>					State: 69 state type: <i>r</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
t Rdirective	14 4 3						52 0 69 8	
$\Rightarrow$ <i>#op</i>					State: 70 state type: <i>r</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
t Rdirective	14 5 3						52 0 70 8	
$\Rightarrow$ <i>#user-implementation</i>					State: 71 state type: <i>r</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
t Rdirective	14 2 3						52 0 71 8	
$\Rightarrow$ <i>Rdirective</i>					State: 72 state type: <i>s</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
c Rsyntax_code	15 2 1      ?  NULL						72 55 56	
c Rsyntax_code	15 1 1     syntax-code NS_o2_sd::TH_o2_sdc						72 55 57	
t Rdirectives	13 1 2 Rsyntax_code <u>Rlint</u> <sup>ε</sup>						52 73 74	
$\Rightarrow$ <i>Rsyntax_code</i>					State: 73 state type: <i>s/r</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
c Rlint	16 2 1 ε						73 0 73 10	
c Rlint	16 1 1     lint NS_lint_balls::TH_lint_balls						73 29 16	
t Rdirectives	13 1 3 Rlint						52 74 74	
$\Rightarrow$ <i>Rlint</i>					State: 74 state type: <i>r</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
t Rdirectives	13 1 4						52 0 74 10	
$\Rightarrow$     <i>arbitration-code: ε</i>					State: 75 state type: <i>s</i>			
← rule	→ R# sr# Po ←				subrule element	→	Brn Gto Red LA	
t Rdirective	14 6 2  ?						53 66 66	
t Rdirective	14 1 2 # user-declaration						53 67 67	
t Rdirective	14 3 2 # constructor						53 68 68	
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t Rdirective	14 5 2 # op						53 70 70	
t Rdirective	14 2 2 # user-implementation						53 71 71	
t Rlint	16 1 2 lint						53 16 16	

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term\_def\_ph Grammar

Date: January 2, 2015 at 15:39

File: term\_def\_ph.lex

Ns: NS\_term\_def\_ph

Version: 1.0

Debug: false

Grammar Comments:

Type: Thread

Parse a terminal symbol.

1 element(s) in Lookahead Expression below

eolr

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