

A.1.7 Punctuators

(6.4.6) *punctuator*: one of

```
[ ] ( ) { } . ->
++ -- & * + - ~ !
/ % << >> < > <= >= == != ^ | && ||
? : :: ; ...
= *= /= %= += -= <<= >>= &= ^= |=
, # ##
<: :> <% %> %: %::
```

A.1.8 Header names

(6.4.7) *header-name*:

```
< h-char-sequence >
" q-char-sequence "
```

(6.4.7) *h-char-sequence*:

```
h-char
h-char-sequence h-char
```

(6.4.7) *h-char*:

any member of the source character set except
the new-line character and >

(6.4.7) *q-char-sequence*:

```
q-char
q-char-sequence q-char
```

(6.4.7) *q-char*:

any member of the source character set except
the new-line character and "

A.1.9 Preprocessing numbers

(6.4.8) *pp-number*:

```
digit
. digit
pp-number identifier-continue
pp-number ' digit
pp-number ' nondigit
pp-number e sign
pp-number E sign
pp-number p sign
pp-number P sign
pp-number .
```

A.2 Phrase structure grammar

A.2.1 Expressions

(6.5.1) *primary-expression*:

```
identifier
constant
string-literal
( expression )
generic-selection
```

(6.5.1.1) *generic-selection*:

```
_Generic ( assignment-expression , generic-assoc-list )
```

(6.5.1.1) *generic-assoc-list*:

```
generic-association
generic-assoc-list , generic-association
```

(6.5.1.1) *generic-association*:

type-name : *assignment-expression*
default : *assignment-expression*

(6.5.2) *postfix-expression*:

primary-expression
postfix-expression [*expression*]
postfix-expression (*argument-expression-list*_{opt})
postfix-expression . *identifier*
postfix-expression -> *identifier*
postfix-expression ++
postfix-expression --
compound-literal

(6.5.2) *argument-expression-list*:

assignment-expression
argument-expression-list , *assignment-expression*

(6.5.2.5) *compound-literal*:

(*storage-class-specifiers*_{opt} *type-name*) *braced-initializer*

(6.5.2.5) *storage-class-specifiers*:

storage-class-specifier
storage-class-specifiers *storage-class-specifier*

(6.5.3) *unary-expression*:

postfix-expression
++ *unary-expression*
-- *unary-expression*
unary-operator *cast-expression*
sizeof *unary-expression*
sizeof (*type-name*)
alignof (*type-name*)

(6.5.3) *unary-operator*: one of

& * + - ~ !

(6.5.4) *cast-expression*:

unary-expression
(*type-name*) *cast-expression*

(6.5.5) *multiplicative-expression*:

cast-expression
multiplicative-expression * *cast-expression*
multiplicative-expression / *cast-expression*
multiplicative-expression % *cast-expression*

(6.5.6) *additive-expression*:

multiplicative-expression
additive-expression + *multiplicative-expression*
additive-expression - *multiplicative-expression*

(6.5.7) *shift-expression*:

additive-expression
shift-expression << *additive-expression*
shift-expression >> *additive-expression*

(6.5.8) *relational-expression*:

shift-expression
relational-expression < *shift-expression*
relational-expression > *shift-expression*
relational-expression <= *shift-expression*
relational-expression >= *shift-expression*

(6.5.9) *equality-expression*:

relational-expression
equality-expression **==** *relational-expression*
equality-expression **!=** *relational-expression*

(6.5.10) *AND-expression*:

equality-expression
AND-expression **&** *equality-expression*

(6.5.11) *exclusive-OR-expression*:

AND-expression
exclusive-OR-expression **^** **AND-expression**

(6.5.12) *inclusive-OR-expression*:

exclusive-OR-expression
inclusive-OR-expression **|** *exclusive-OR-expression*

(6.5.13) *logical-AND-expression*:

inclusive-OR-expression
logical-AND-expression **&&** *inclusive-OR-expression*

(6.5.14) *logical-OR-expression*:

logical-AND-expression
logical-OR-expression **||** *logical-AND-expression*

(6.5.15) *conditional-expression*:

logical-OR-expression
logical-OR-expression **?** *expression* **:** *conditional-expression*

(6.5.16) *assignment-expression*:

conditional-expression
unary-expression *assignment-operator* *assignment-expression*

(6.5.16) *assignment-operator*: one of

= ***=** **/=** **%=** **+=** **-=** **<<=** **>>=** **&=** **^=** **|=**

(6.5.17) *expression*:

assignment-expression
expression **,** *assignment-expression*

(6.6) *constant-expression*:

conditional-expression

A.2.2 Declarations

(6.7) *declaration*:

declaration-specifiers *init-declarator-list*_{opt} **;**
attribute-specifier-sequence *declaration-specifiers* *init-declarator-list* **;**
static_assert-declaration
attribute-declaration

(6.7) *declaration-specifiers*:

declaration-specifier *attribute-specifier-sequence*_{opt}
declaration-specifier *declaration-specifiers*

(6.7) *declaration-specifier*:

storage-class-specifier
type-specifier-qualifier
function-specifier

(6.7) *init-declarator-list*:

init-declarator
init-declarator-list **,** *init-declarator*