

УПРОЩЕННАЯ ЛЕКСИКА ЯЗЫКА C (ISO/IEC 9899:1999 (E))

Lexical elements

Syntax

token:

keyword

identifier

constant

string-literal

punctuator

Keywords

Syntax

auto

break

case

char

const

continue

default

do

double

else

enum

extern

float

for

goto

if

inline

int

long

register

restrict

return

short

signed

sizeof

static

struct

switch

typedef

union

unsigned

void

volatile

while

_Bool

_Complex

_Imaginary

Identifiers

Syntax

identifier:

nondigit

identifier digit
identifier nondigit:
nondigit: one of
 _ 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
digit: one of
 0 1 2 3 4 5 6 7 8 9

Constants

Syntax

constant:
integer-constant
floating-constant
enumeration-constant
character-constant

Integer constants

Syntax

integer-constant:
decimal-constant
octal-constant
hexadecimal-constant
decimal-constant:
nonzero-digit
decimal-constant digit
octal-constant:
 0
octal-constant octal-digit
hexadecimal-constant:
hexadecimal-prefix hexadecimal-digit
hexadecimal-constant hexadecimal-digit
hexadecimal-prefix: one of
 0x 0X
nonzero-digit: one of
 1 2 3 4 5 6 7 8 9
octal-digit: one of
 0 1 2 3 4 5 6 7
hexadecimal-digit: one of
 0 1 2 3 4 5 6 7 8 9
 a b c d e f
 A B C D E F

Floating constants

Syntax

floating-constant:
fractional-constant exponent-partopt
digit-sequence exponent-part
fractional-constant:
digit-sequenceopt . digit-sequence
digit-sequence .
exponent-part:
 e signopt digit-sequence
 E signopt digit-sequence

sign: one of
+ -
digit-sequence:
digit
digit-sequence digit

Character constants

Syntax

character-constant:
'c-char-sequence'
c-char-sequence:
c-char
c-char-sequence c-char
c-char:
any member of the source character set except the single-quote ' , backslash \, or
new-line character
escape-sequence
escape-sequence:
one of \' \" \? \\ \a \b \f \n \r \t \v

String literals

Syntax

string-literal:
"s-char-sequenceopt"
s-char-sequence:
s-char
s-char-sequence s-char
s-char:
any member of the source character set except the double-quote " , backslash \, or
new-line character
escape-sequence

Punctuators

Syntax

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