

c_subset

token 支援:

type:

float

bool

int

key:

main

if

else

printf

while

for

判斷符號:

==

<=

>=

!=

<

>

其他運算元:

++

--

+=

--

*=

/=

其他:

ID Integer_constant

Floating_point_constant

STRING

WS:(' ' | '\t' | '\r' | '\n')

COMMENT

production rule 支援：

void main

宣告變數

基本+-* / 運算

printf() 可使用不定變數

if-then-else

while-loop

for-loop

type checking rules：

- (1) Each variable must be declared before it is used.
- (2) Each identifier can be only declared once.
- (3) The types of the operands of an operator must be the same.
- (4) The types of the two sides of an assignment must be the same.
- (5) ==、!=、>=、>、<=、<等運算的結果，其 type 為 boolean.
- (6) if-else、for-loop、while-loop constructs 的 condition 部分，其 type 必須是 boolean，否則為 type error.