Subset of C

1. keyword (關鍵字) ( C已經定義好的token )

|  |  |
| --- | --- |
| Token type | lexeme |
| INT | int |
| CHAR | char |
| VOID | void |
| FLOAT | float |
| DOUBLE | double |
| BOOL | bool |
| INCLUDE\_TYPE | #include <'(LETTER)\*'.h> |
| PRINTF\_TYPE | printf |
| SCANF\_TYPE | scanf |
| MAIN | mian |
| RETURN\_TYPE | return |
| SWITCH | switch |
| CASE | case |
| DEFAULT | default |
| BREAK | break |
| CONTINUE | continue |

1. data type (所支援的資料型態)

|  |  |
| --- | --- |
| Token type | lexeme |
| Floating\_point\_constant | float |
| STRING\_TYPE | “ ” |
| Integer\_constant | 數字 |

1. 註解方式
2. /\* \*/

4. program execution

(1)支援main

(2)支援多個副函式( INT, FLOAT, DOUBLE, CHAR )

5. program control flow

|  |  |
| --- | --- |
| Token type | lexeme |
| WHILE\_TYPE | while |
| IF\_TYPE | if |
| ELSE\_TYPE | else |
| FOF\_TYPE | for |
| SWITCH | switch |

6. program statement

|  |  |
| --- | --- |
| Token type | Lexeme |
| EQ\_OP | == |
| LE\_OP | <= |
| GE\_OP | >= |
| Less\_than\_OP | < |
| More\_than\_OP | > |
| NE\_OP | != |
| T\_ASSIGNMENT | = |
| mod | % |
| Pointer | \* |
| address | & |
| Overload\_op | \*=,/=,%=,+=,-= |
| Increment | ++ |
| Decrement | -- |
| T\_Left\_parenthesis | ( |
| T\_Right\_parenthesis | ) |
| T\_Left\_brace | { |
| T\_Righ\_brace | } |
| T\_ COMMA | , |
| T\_SEMICOLON | ; |
| WS | (' '|'\r'|'\t'|'\n') |