**C subset的描述**

1. keyword (關鍵字)

|  |  |
| --- | --- |
| **Token type** | **lexeme** |
| **INCLUDE\_** | #include <'(LETTER)\*'.h> |
| **PRINTF\_** | printf |
| **SCANF\_** | scanf |
| **MAIN\_** | main |
| **RETURN\_** | return |

1. data type (所支援的資料型態)

|  |  |
| --- | --- |
| **Token type** | **lexeme** |
| **INT\_TYPE** | int |
| **CHAR\_TYPE** | char |
| **VOID\_TYPE** | void |
| **FLOAT\_TYPE** | float |
| **SHORT\_TYPE** | short |
| **LONG\_TYPE** | long |
| **DOUBLE\_TYPE** | double |

3. program control flow

|  |  |
| --- | --- |
| **Token type** | **lexeme** |
| **WHILE\_** | while |
| **IF\_** | if |
| **ELSE\_** | else |
| **FOR\_** | for |
| **BREAK\_** | break |
| **CONTINUE\_** | continue |
| **SWTICH\_** | switch |
| **CASE\_** | case |
| **DEFAULT\_** | default |

4. program statement

|  |  |
| --- | --- |
| **Token type** | **Lexeme** |
| **EQ\_OP** | == |
| **LE\_OP** | <= |
| **GE\_OP** | >= |
| **LT\_OP** | < |
| **MT\_OP** | > |
| **NE\_OP** | != |
| **PLUS\_OP** | + |
| **MINUS\_OP** | - |
| **MULTI\_OP** | \* |
| **DIVID\_OP** | / |
| **MOD\_OP** | % |
| **PP\_OP** | ++ |
| **MM\_OP** | -- |
| **ADDRESS\_OP** | & |
| **POINTER\_OP** | \* |
| **PLUS\_E\_OP** | += |
| **MINUS\_E\_OP** | -= |
| **MULTI\_E\_OP** | \*= |
| **DIVID\_E\_OP** | /= |
| **MOD\_E\_OP** | %= |
| **AND\_OP** | && |
| **SL\_BRACK** | ( |
| **SR\_BRACK** | ) |
| **ML\_BRACK** | [ |
| **MR\_BRACK** | ] |
| **BL\_BRACK** | { |
| **BL\_BRACK** | } |
| **COMMA\_** | , |
| **SEMIC\_** | ; |
| **WS** | (' '|'\r'|'\t'|'\n'|'\r\n') |