C Subset Detail

Author: 406410035 資工三 秦紫頤

1. Keyword

   Data type declaration: int, char, void, unsigned, long, const, float, double, struct

   Statements: if, else, for, while, do, goto, typedef

2. Data type

   Include int, char, void, unsigned, long, const, float, double, struct

3. Comment Method

   Support both single line comment **//** and multiple lines **/* */**

4. Program execution

   All the function name is expressed by ID so multiple functions are permitted

5. Program control flow

   Support for, while, do-while, if-else

6. Program statement

   Mathematical calculation: +, -, *, /, %, ++, --, <<, >>

   Logical calculation: &&, ||

   Bits calculation: &, |, ^

   Comparison: <, <=, >, >=, !=, ==

   Ternary calculation: ?, :

   Statement use in structure: ->, .

   Assignment operators: =, +=, -=, *=, /=, %=, &=, |=, ^=

7. Extra

   Integer numbers: 1,10,100

   Floating point numbers: 1.2, .2, 1.

   Long, unsigned long: 0LL, 0uLL

   Literal: "This is a string"

   Character: 'c'

   Semicolon (;), new line (\n), whitspace

   Brackets,parenthesis: {}, [], ()

   C macro: #include, #define