## Compiler HW1 0316219 林語新

platform:Linux workstation of cs / Mac OS X

abilities: 1. regular expression

- 2. "trigger" to figure whether the code is inside \\* \*\
- 3. linked list by structure to count the ids.

## sample input:

## bilut uetto morta void main() int a; double b; print "hello world"; a = 1+1;b = 1.23;if (a > 1){ b = b\*1.23e-1;#pragma token off/\* b C aaaaa\*/ aa **b**\*/ if (a > 1){ #pragma token on b = b\*1.23e-1;

## sample output:

```
<KW:void>
<id:main>
<delim:(>
<delim:)>
2:void main()
 <delim:{>
3:{
 <KW:int>
<id:a>
<delim:;>
4: int a;
 <KW:double>
<id:b>
<delim:;>
5: double b;
 <KW:print>
<string:hello world>
<delim:;>
6: print "hello world";
 <id:b>
<"=">
<float:1.23>
<delim:;>
10: b = 1.23;
<id:b>
<"=">
<"=">
<id:b>
<"%">
<id:b>
<"%">
<"scientific:1.23e-1>
<delim;;>

13:
b = b*1.23e-1;
 <delim:}>
14: }
 15:#pragma token off/*
 16:
 17:a
 19:c
 20:aaaaa*/
 21:/*
 22: aa
 24: if (a > 1){
 25:#pragma token on
<delim:}>
27: }
 <delim:}>
28:}
 frequencies of identifiers:
main 1
a 4
b 6
```