Link to github: https://github.com/octaviaah/flcd

## lang.lxi

%option noyywrap

%option caseless

[0-9] DIGIT

\"[a-zA-Z0-9]\*\" WORD

0|[+-]?[1-9][0-9]\* INTEGER

CHARACTER \'[a-zA-Z0-9]\'

{WORD}|{INTEGER}|{CHARACTER} constant

[a-zA-Z][a-zA-Z0-9]\* identifier

%%

corner

player

referee

```
printf( "Reserved word: %s\n", yytext);
             printf( "Reserved word: %s\n", yytext);
cross
dribble
                   printf( "Reserved word: %s\n", yytext);
freekick
                   printf( "Reserved word: %s\n", yytext);
fulltime
                   printf( "Reserved word: %s\n", yytext);
             printf( "Reserved word: %s\n", yytext);
lineup
             printf( "Reserved word: %s\n", yytext);
score
             printf( "Reserved word: %s\n", yytext);
pass
```

printf( "Reserved word: %s\n", yytext);

printf( "Reserved word: %s\n", yytext);

```
printf( "Identifier: %s\n", yytext);
{identifier}
             printf( "Constant: %s\n", yytext);
{constant}
"{"
             printf( "Separator: %s\n", yytext);
"}"
             printf( "Separator: %s\n", yytext);
"("
             printf( "Separator: %s\n", yytext);
")"
             printf( "Separator: %s\n", yytext);
"."
             printf( "Separator: %s\n", yytext);
","
             printf( "Separator: %s\n", yytext);
":"
             printf( "Separator: %s\n", yytext);
";"
             printf( "Separator: %s\n", yytext);
"+"
             printf( "Operator: %s\n", yytext);
             printf( "Operator: %s\n", vytext);
"_"
             printf( "Operator: %s\n", yytext);
"*"
"/"
             printf( "Operator: %s\n", yytext);
"%"
             printf( "Operator: %s\n", yytext);
"="
             printf( "Operator: %s\n", yytext);
"<"
             printf( "Operator: %s\n", yytext);
"<<"
             printf( "Operator: %s\n", yytext);
"<="
             printf( "Operator: %s\n", yytext);
             printf( "Operator: %s\n", yytext);
">="
             printf( "Operator: %s\n", yytext);
```

```
">>"
             printf( "Operator: %s\n", yytext);
">"
             printf( "Operator: %s\n", yytext);
"ļ"
             printf( "Operator: %s\n", yytext);
"!="
             printf( "Operator: %s\n", yytext);
             printf( "Operator: %s\n", yytext);
"&&"
"||"
             printf( "Operator: %s\n", yytext);
"+="
             printf( "Operator: %s\n", yytext);
             printf( "Operator: %s\n", yytext);
"*="
             printf( "Operator: %s\n", yytext);
             printf( "Operator: %s\n", yytext);
"/="
[\t]+
[\n]+
[+-]?0[0-9]*
                          printf("Illegal integer at line \n");
[0-9]+[a-zA-Z_]+[a-zA-Z0-9_]* printf("Illegal identifier\n");
\'[a-zA-Z0-9]{2,}\'
                          printf("Character of length >=2 at line \n");
                          printf("Lexical error\n");
%%
int main( argc, argv )
int argc;
char **argv;
{
```

```
++argv, --argc;
      if (argc > 0)
      yyin = fopen( argv[0], "r" );
       else
       yyin = stdin;
      yylex();
}
p1.txt
player xa;
player ax;
pass >> ax;
cross (x <= 1) fulltime "not prime";</pre>
corner cross (x == 2) fulltime "prime";
corner cross (x % 2 == 0) fulltime "not prime";
dribble (player i = 3; i*i <= x; i += 2)
      cross (x % i == 0) fulltime "not prime";
```

fulltime "prime";

## p2.txt

```
player a, b, c, max;

max = 0;

pass >> a;

pass >> b;

pass >> c;

cross (a >= b && a >= c)

    max = a;

corner cross (b >= a && b >= c)

    max = b;

corner max = c;
```