

PARSER EXAMPLE 2~~MAKEFILE~~

flex scanner.l

bison -d parser.y

gcc -o parser lex.yy.c parser.tab.c -lfl.

SCANNER.L

%.c

#include "parser.tab.h"

int lineno = 0;

%.?}

%.?.

[\t] { /* eat white spaces */ }

[a-zA-Z] [a-zA-Z]* { return ID; }

[0-9] [0-9]* { return NUMBER; }

[+-] { return OP; }

\n { ++lineno; return '\n'; }

• { printf("line no %d: unrecognized character '%c' \n",
 lineno, yytext[0]); }

COMPILER STATIC SOLVING

ex String operations on `yyerror`
can be reduced to variable access
instructions.

classmate

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PARSER.Y

%E

#include <stdio.h>

%}

%.

Goal: Expr '\n'

Expr: Expr OP Term

| Term

;

Term: NUMBER | ID,

%.%.%

`yyerror (char *s) {`

`printf (stderr, "error: %s\n", s);`

`}`

`main (int argc, char *argv) {`

`yyparse ();`

`printf ("Parsing Over\n");`

`}`