<pascal_like compiler=""></pascal_like>
1. Lexical #1
\$ cd
\$ mkdir pascal-like
\$ cd pascal-like
\$ flex pascal-like.l
\$ gcc -o pascal-like lex.yy.c -lfl
\$ gcc -o -DPRINT pascal-like lex.yy.c -lfl
\$ ./pascal-like
:=
begin
end
if
then
else
while
do
^Z

2. Lexical #2

- BNF -> bison

\$ flex pascal-like.l \$ bison pascal-like.y 3. Conflict/Shift error debug \$ bison pascal-like.y \$ bison -v pascal-like.y \$ Is -I \$ vi pascal-like.output : set number \$ vi pascal-like.y : expr binaryOp expr expr : value binaryOp expr expr \$ bison -v pascal-like.y \$ vi pascal-like.output :/State 32 \$ vi pascal-like.y

expr : expr binaryOp expr

```
: value binaryOp expr
expr
$ bison -v pascal-like.y
$ vi pascal-like.output
:/State 32
                : if condition then statement
if_statement
                 | if condition then statement else statement
->
if_statement
                : if condition then statement
$ bison -v pascal-like.y
4. flex bison together
$ vi pascal-like.y
G > a
#include "lex.yy.c"
$ flex pascal-like.l
$ bison pascal-like.y
$ gcc -o parser pascal-like.tab.c -lfl
$ vi pascal-like.l
```

```
TOKEN(begin) -> TOKEN(begin_T)
TOKEN(end) -> TOKEN(end_T)
TOKEN(if) -> TOKEN(if_T)
TOKEN(then) -> TOKEN(then_T)
TOKEN(else) -> TOKEN(else_T)
TOKEN(while) -> TOKEN(while_T)
TOKEN(do) -> TOKEN(do_T)
$ vi pascal-like.y
begin -> begin_T
end -< end_T
$ flex pascal-like.l
$ bison pascal-like.y
$ gcc -o parser pascal-like.tab.c -lfl
$ cp arith.c pascal-like.c
$ gcc -o parser pascal-like.tab.c pascal-like.c -lfl
$ vi pascal-like.y
int main()
#if YYDEBUG == 1
```