

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

STRING [""]^[^\n]*[""]

IDENTIFIER [a-zA-Z]+[a-zA-Z0-9]*

%%

{INTEGER} printf("An integer: %s (%d)\n", yytext, atoi(yytext));

"init"|"as"|"integer"|"read"|"print"|"check"|"else"|"or"|"and"|"loop"|"format" printf("A reserved word: %s\n", yytext);

{IDENTIFIER} printf("An identifier: %s\n", yytext);

"+"|"-"|"/"|"%"|"="|"*"|"<="|"=="|"<>"|">="|"<"|>" printf("An operator: %s\n", yytext);

"(")|")"|";"|","|"{"|"}"|"["|"]" printf("A separator: %s\n", yytext);

{STRING} printf("A string: %s\n", yytext);

[\t\n]+ /* eat up whitespace */

%%

main(argc, argv)

int argc;

char **argv;

{

 ++argv, --argc; /* skip over program name */

 if (argc > 0)

```
        yyin = fopen( argv[0], "r" );
    else
        yyin = stdin;
    yylex();
}

#ifdef yywrap
    yywrap() { return 1; }
#endif
```