/\* scanner for a SWAHILI programming language \*/

%{

/\* need this for the call to atof() below \*/

#include <math.h>

%}

DIGIT [0-9]

ID [a-z][a-z0-9]\*

%%

{DIGIT}+ {

printf("An integer: %s (%d)\n", yytext,

atoi(yytext));

}

\"(\\.|[^"\\])\*\" {

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

KUTO|ANZA|MWISHO|NAMBARI|KAMBA|ANDIKA {

printf( "A keyword: %s\n", yytext );}

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

":)"|":(" printf( "An operator: %s\n", yytext );

"{"[^}\n]\*"}"

[ \t\n]+

. printf( "Unrecognized character: %s\n", yytext );

%%

int 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();

}