

```

/* 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();
}

```