```
%{
#include <stdio.h>
%}

%%

"int"|"float"|"char"|"if"|"else"|"while"|"for"|"return" {
    printf("KEYWORD: %s\n", yytext);
}

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

[+-/*%=] {
    printf("OPERATOR: %s\n", yytext);
}

[a-zA-Z][a-zA-Z0-9]* {
    printf("IDENTIFIER: %s\n", yytext);
}

[0-9]+ {
    printf("NUMBER: %s\n", yytext);
}

.|\n {  /* Ignore other characters */ }

%%

int main() {
    yylex();
    return 0;
}


INPUT:
int a = 10 + b;


OUTPUT:

KEYWORD: int
IDENTIFIER: a
SEPARATOR: =
NUMBER: 10
OPERATOR: +
IDENTIFIER: b
SEPARATOR: ;
```