

```
%{  
#include <stdio.h>  
%}  
  
%option noyywrap  
  
/* Patterns */  
  
OPERATOR  (\+|\|-|\*|\V|=|==|<|>|<=|>=|!=|&&|\||\|%)  
IDENTIFIER [A-Za-z_][A-Za-z0-9_]*  
CONSTANT  [0-9]+(\.[0-9]+)?  
COMMENT   (\V\[^\\n]*|(\^*([^\^*]\\*)*\^*/))
```

```
%%
```

```
{OPERATOR}  { printf("%s is an operator\n", yytext); }  
{IDENTIFIER} { printf("%s is an identifier\n", yytext); }  
{CONSTANT}  { printf("%s is a constant\n", yytext); }  
{COMMENT}   { printf("%s is a comment\n", yytext); }  
[ \\t\\r\\n]+  { /* Ignore whitespace */ }  
.       { printf("%s is not a recognized pattern\n", yytext); }
```

```
%%
```

```
int main(void)  
{  
    printf("Enter the expression:\n");
```

```
yylex();  
return 0;  
}
```