

```

%{

#include <math.h>

#include <stdio.h>

int lines = 0;

%}

%option noyywrap


NUMBER    0$|[-|+]?[1-9][0-9]*

STRING    \"[a-zA-Z0-9]*\"

CONSTANT  {NUMBER}|{STRING}

ID        [a-zA-Z][a-zA-Z0-9]*


%%


"if" {printf("Reserved word: %s\n", yytext);}

"while" {printf("Reserved word: %s\n", yytext);}

"integer" {printf("Reserved word: %s\n", yytext);}

"string" {printf("Reserved word: %s\n", yytext);}

"let" {printf("Reserved word: %s\n", yytext);}

"write" {printf("Reserved word: %s\n", yytext);}

"read" {printf("Reserved word: %s\n", yytext);}


":" {printf( "Separator: %s\n", yytext );}

";" {printf( "Separator: %s\n", yytext );}

"," {printf( "Separator: %s\n", yytext );}

```

```
". " {printf( "Separator: %s\n", yytext );}
```

```
"-"{NUMBER} {printf("An operator: -\nAn integer: %s\n", yytext + 1);}
```

```
"- " {printf("An operator: %s\n", yytext);}
```

```
"+"{NUMBER} {printf("An operator: +\nAn integer: %s\n", yytext + 1);}
```

```
"+" {printf("An operator: %s\n", yytext);}
```

```
"*"{NUMBER} {printf("An operator: *\nAn integer: %s\n", yytext + 1);}
```

```
"* " {printf("An operator: %s\n", yytext);}
```

```
"/"{NUMBER} {printf("An operator: /\nAn integer: %s\n", yytext + 1);}
```

```
"/ " {printf("An operator: %s\n", yytext);}
```

```
"="{NUMBER} {printf("An operator: =\nAn integer: %s\n", yytext + 1);}
```

```
"= " {printf("An operator: %s\n", yytext);}
```

```
"==" {printf( "Operator: %s\n", yytext );}
```

```
"(" {printf( "Separator: %s\n", yytext );}
```

```
")" {printf( "Separator: %s\n", yytext );}
```

```
"[" {printf( "Separator: %s\n", yytext );}
```

```
"]" {printf( "Separator: %s\n", yytext );}
```

```
"}" {printf( "Separator: %s\n", yytext );}
```

```
"{" {printf( "Separator: %s\n", yytext );}
```

```
">" {printf( "Operator: %s\n", yytext );}
```

```
{ID} {printf( "Identifier: %s\n", yytext );}
```

```
{CONSTANT} {printf( "Constant: %s\n", yytext);}
```

```
[ \t]+ /* elimina spatii */ {}
```

```
[\n]+ {lines++;}
```

```
[0][0-9]+ {printf("Illegal number at line %d\n", lines);}
```

```
[0-9]+[a-zA-Z][a-zA-Z0-9]* {printf("Illegal identifier at line %d\n", lines);}
```

```
. {printf("Illegal symbol at line\n");}
```

```
%%
```