

Sample Lex file
 PL/306/2 language
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```
%{
#include "y.tab.h"

extern int lineNumber=1;

%}

D      [0-9]
L      [a-zA-Z$@#]
A      [a-zA-Z0-9_$@#]

%%

(d|D) (e|E) (c|C) (l|L) (a|A) (r|R) (e|E)      {return K_DECLARE; }
(e|E) (l|L) (s|S) (e|E)                         {return K_ELSE; }
(e|E) (n|N) (d|D)                               {return K_END; }
(e|E) (n|N) (d|D) (i|I) (f|F)                 {return K_ENDIF; }
(f|F) (l|L) (o|O) (a|A) (t|T)                 {return K_FLOAT; }
(g|G) (e|E) (t|T)                                {return K_GET; }
(g|G) (o|O) (t|T) (o|O)                          {return K_GOTO; }
(i|I) (f|F)                                     {return K_IF; }
(i|I) (n|N) (t|T) (e|E) (g|G) (e|E) (r|R)     {return K_INTEGER; }
(p|P) (r|R) (o|O) (c|C) (e|E) (d|D) (u|U) (r|R) (e|E) {return K_PROCEDURE; }
(p|P) (u|U) (t|T)                                {return K_PUT; }
(s|S) (k|K) (i|I) (p|P)                           {return K_SKIP; }
(s|S) (t|T) (a|A) (r|R) (t|T)                   {return K_START; }
(s|S) (t|T) (o|O) (p|P)                           {return K_STOP; }
(t|T) (h|H) (e|E) (n|N)                          {return K_THEN; }

{L}
{L}{A}|
{L}{A}{A}|
{L}{A}{A}{A}|
{L}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}|
{L}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A} {return T_IDENTIFIER; }
{L}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}{A}+ {return E_IDENTIFIER_LONG; }

{D}+          {return T_INTEGER; }
```

```

{D}+."{D}+
(~).*
{
    return T_FLOAT;
}

(:=)
{
    return O_ASSIGN;
}

"<"
{
    return '<';
}

">"
{
    return '>';
}

"="
{
    return '=';
}

"&"
{
    return '&';
}

"|"
{
    return '|';
}

"!"
{
    return '!';
}

"-"
{
    return '-';
}

"+"
{
    return '+';
}

"**"
{
    return '**';
}

"/"
{
    return '/';
}

"%"
{
    return '%';
}

"("
{
    return '(';
}

")"
{
    return ')';
}

","
{
    return ',';
}

";"
{
    return ';';
}

":"
{
    return ':';
}

[ \t] +
{
    lineNumber++;
}

[ \n] +
{
    return E_INV_CHAR;
}

.

%%
```