Lab 8 (lex) Ternovan Darius-Daniel, 937/1 https://github.com/ternovandarius/FLCD

The lex is implemented as seen below:

```
%option noyywrap
%option caseless
letter [A-Za-z]
digit [0-9]
identifier {letter}[_a-zA-Z0-9]*
88
func {printf(
                                         );}
int {printf(
do {printf(
if {printf(
then {printf(
endif {printf(
return {printf(
endfunc {printf(
for {printf(
endfor {printf(
                                            ");}
in {printf(
                                  );}
     {printf(
     {printf(
     {printf(
     {printf(
    {printf(
    {printf(
     {printf(
     {printf(
     {printf(
     {printf(
     {printf(
     {printf(
     {printf(
    {printf(
     {printf(
     {printf(
    {printf(
{identifier} {printf("IDENTIFIER\n");}
```

We input p1.in:

```
func computeMin(int nr1, int nr2, int nr3) do
    int min = nr1;
    if (nr2 < min) then
        min = nr2;
    endif
    if (nr3 < min) then
        min = nr3;
    endif
    return min;
endfunc</pre>
```

The result of inputting p1.in into the lex is:

```
Reserved word: FUNCTION
IDENTIFIER
Separator: (
Reserved word: INTEGER
IDENTIFIER
Separator: ,
Reserved word: INTEGER
IDENTIFIER
Separator: ,
Reserved word: INTEGER
IDENTIFIER
Separator: )
Reserved word: DO
       Reserved word: INTEGER
IDENTIFIER
Operator: =
IDENTIFIER
Separator: ;
       Reserved word: IF
Separator: (
IDENTIFIER
Operator: <
IDENTIFIER
Separator: )
Reserved word: THEN
               IDENTIFIER
Operator: =
IDENTIFIER
Separator: ;
       Reserved word: ENDIF
       Reserved word: IF
Separator: (
IDENTIFIER
Operator: <
IDENTIFIER
Separator: )
Reserved word: THEN
               IDENTIFIER
Operator: =
IDENTIFIER
Separator: ;
       Reserved word: ENDIF
       Reserved word: RETURN
IDENTIFIER
Separator: ;
Reserved word: END FUNCTION
```