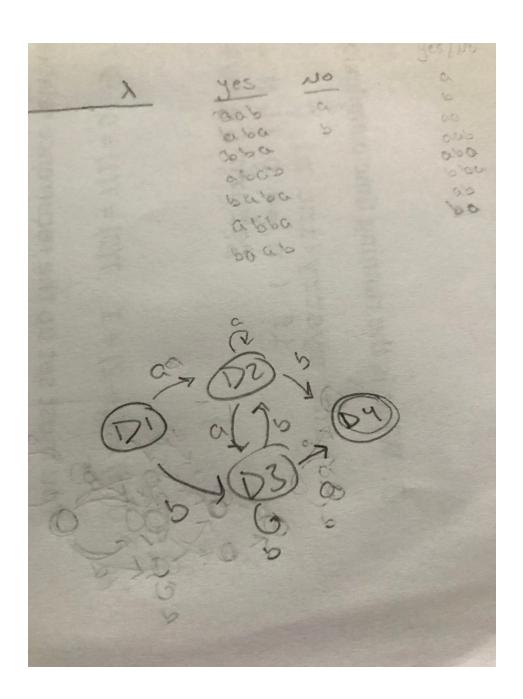
Avaree Warrick Compiler Design Assignment 2 (a/2/c) (cc)

(a16)* (a616a) 2.2 (016 2000



3. I ended up not finishing this one but here is my code so far...

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

%%

```
[ \t\n\r]
                                                       {}
"{"[^"}"]*"}"
                                                      {}
                                                { printf("IDENTIFIER\t%s\n",yytext); }
[A-Za-z_][A-Za-z_0-9]*
[0-9]+
                                                        { printf("INTEGER\t\t%d\n",atoi(yytext)); }
NIL|Nil|nil
                                                      { printf("NIL\n"); }
"&"[^"&"]*"&"
                                                      { printf("STRING CONSTANT %s\n",yytext); }
":="
                                                         { printf("ASSIGNMENT\n"); }
"="
                                                           { printf("EQUALS\n"); }
";"
","
":"
                                                           { printf("SEMICOLON\n"); }
                                                           { printf("COMMA\n"); }
                                                           { printf("COLON\n"); }
                                                         { printf("RANGE\n"); }
                                                           { printf("PERIOD\n"); }
"("
                                                           { printf("BEGIN PAREN\n"); }
")"
                                                           { printf("END PAREN\n"); }
"["
                                                           { printf("BEGIN BRACKET\n"); }
                                                           { printf("END BRACKET\n"); }
PROGRAM | Program | program \\
                                                { printf("PROGRAM\n"); }
CONST|Const|const
                                                              { printf("CONST\n"); }
                                                    { printf("TYPE\n"); }
TYPE|Type|type
VAR|Var|var
                                                     { printf("VAR\n"); }
PROCEDURE|Procedure|procedure
                                              { printf("PROCEDURE\n"); }
FUNCTION|Function|function
                                              { printf("FUNCTION\n"); }
BEGIN|Begin|begin
                                                   { printf("BEGIN\n"); }
END|End|end
                                                       { printf("END\n"); }
IF|If|if
                                                   { printf("IF\n"); }
THEN|Then|then
                                                    { printf("THEN\n"); }
                                                   { printf("ELSE\n"); }
ELSE|Else|else
NOT|Not|not
                                                   { printf("NOT\n"); }
AND|And|and
                                                       { printf("AND\n"); }
OR|Or|or
                                                       { printf("OR\n"); }
REPEAT|Repeat|repeat
                                         { printf("REPEAT\n"); }
UNTIL|Until|until
                                                   { printf("UNTIL\n"); }
FOR|For|for
                                                       { printf("FOR\n"); }
TO|To|to
                                              { printf("TO\n"); }
DOWNTO|Downto|downto
                                                  { printf("DOWNTO\n"); }
WHILE|While|while
                                                   { printf("WHILE\n"); }
DO|Do|do
                                                       { printf("DO\n"); }
                                           { printf("WITH\n"); }
WITH|With|with
CASE|Case|case
                                                   { printf("CASE\n"); }
OF|Of|of
                                                       { printf("OF\n"); }
"<"
                                                           { printf("LESS THAN\n"); }
                                                   { printf("LESS THAN EQUAL TO\n"); }
                                                           { printf("GREATER THAN\n"); }
                                                { printf("GREATER THAN EQUAL TO\n"); }
">="
                                                   { printf("NOT EQUAL TO\n"); }
                                                           { printf("PLUS\n"); }
                                                           { printf("MINUS\n"); }
                                                           { printf("MULTIPLICATION\n"); }
                                                           { printf("DIVISION\n"); }
                                                       { printf("INTEGER DIVISION\n"); }
DIV|Div|div
\mathsf{MOD}|\mathsf{Mod}|\mathsf{mod}
                                                   { printf("INTEGER MODULUS\n"); }
IN|In|in
                                                       { printf("IN\n"); }
PACKED|Packed|packed
                                                  { printf("PACKED\n"); }
ARRAY|Array|array
                                                   { printf("ARRAY\n"); }
                                                       { printf("SET\n"); }
SET|Set|set
                                         { printf("RECORD\n"); }
RECORD|Record|record
```

```
int yywrap () { return(1); }
int main ()
{
  yylex();
  return(EXIT_SUCCESS);
```

It wouldn't compile and I wasn't sure how to fix the little errors it was giving me every time I tried to fix it.