DISEÑO DE COMPILADORES BNF EC-Pascal

CAMPUS QUERÉTARO

1. Programs and blocks

2. Statements

```
statement-sequence ::= <statement> { ";" <statement> }

statement ::= [ <simple-statement> | <structured-statement> ]

simple-statement ::= [ <assignment-statement> | <IO-statement> ]

assigment-statement ::= <identifier> ":=" <expression>

IO-statement ::= [ <writeln-statement> | <readln-statement> ]

writeln-statement ::= "writeln" [ "(" <write-parameter-list> ")" ]

write-parameter-list ::= "(" parameter { "," <parameter> } ")"

parameter ::= <expression> | <identifier> |

readln-statement ::= "readln" [ "(" <identifier-list> ")" ]

structured-statement ::= <compound-statement> | <repetitive-statement> |

compound-statement ::= begin <statement-sequence> end "."

repetitive-statement ::= <while-statement> | <repeat-statement> | <for-statement>

while-statement ::= while <expression> do <statement>
```

3. Expressions

4. Variable and Identifier Categories

```
type ::= integer | real | boolean | string
identifier ::= <letter> { <letter> | <digit> }
```

5. Low Level Definitions

```
string ::= "'" <string-character> { string-character } "'"
string-character ::= <any-character-except-quote> | ""
constant ::= [ <sign> ]( <identifier> | <number>) | <string>
```