Syntax of Mini-Pascal (Welsh & McKeag, 1980) Syntax in recursive descent order
 procedure declaration part> <statement part> <variable declaration part> ::= <empty> | **var** <*variable declaration*>: { <variable declaration>; } <variable declaration> ::= <identifier > { , <identifier > } : <type> < type> ::= < simple type> | < array type><array type> ::= array [<index range>] of <simple type> <index range> ::= <integer constant> .. <integer constant> <simple type> ::= <type identifier> <type identifier> ::= <identifier> cedure declaration> ::= procedure <identifier> ; <block> <statement part> ::= <compound statement> <compound statement> ::= begin <statement> { ; <statement> } end <statement>::= <simple statement> | <structured statement> <read statement> | <write statement> <assignment statement> ::= <variable> := <expression> cedure statement> ::= cedure identifier> cedure identifier> ::= <identifier> <read statement> ::= read (<input variable> { , <input variable> }) <input variable> ::= <variable> <write statement> ::= write (<output value> { , <output value> }) <output value> ::= <expression> <structured statement>::= <compound statement> | <if statement> | <while statement> <if statement> ::= if <expression> then <statement> | **if** <*expression*> **then** <*statement*> **else** <*statement*> <while statement> ::= while <expression> do <statement> <expression> ::= <simple expression> <simple expression> <relational operator> <simple expression> <simple expression>::= <sign> <term> { <adding operator> <term> } <term> ::= <factor> { <multiplying operator> <factor> } <factor> ::= <variable> | <constant> | (<expression>) | not <factor> $< relational\ operator > : : = = | <> | < | <= | >= | >$ $\langle sign \rangle : := + | - | \langle empty \rangle$ $< adding\ operator > : : = + | - | or$ <multiplying operator> ::= * | div | and <variable> ::= <entire variable> | <indexed variable> <indexed variable>::= <array variable> [<expression>] <array variable> ::= <entire variable> <entire variable> ::= <variable identifier> <variable identifier> ::= <identifier> Lexical grammar <constant> : = <integer constant> | <character constant> | <constant identifier> <constant identifier> ::= <identifier> <identifier> ::= <letter> { <letter or digit> } <letter or digit> ::= <letter> | <digit> <integer constant> ::= <digit> { <digit> } <character constant> ::= '< any character other than '>' | '''' <letter> ::= a | b | c | d | e | f | g | h | i | j | k | 1 | m | n | o | p | q | r | s | t | u | v | w | x | y | z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | W | V | W | X | Y | Z <digit>::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 <special symbol> ::= + | - | * | = | <> | < | > | <= | >= | (|)|[|]|:=|.|,|;|:|..|div|or| and | not | if | then | else | of | while | do |

begin | end | read | write | var | array |

procedure | program

cpredefined identifier> ::= integer | Boolean | true | false