⟨program⟩ ::= ⟨primary⟩ | ⟨program⟩
⟨primary⟩ ::= ⟨def⟩ | ⟨statement⟩
⟨def⟩ ::= "def" ⟨whitespace⟩ ⟨proc iden⟩ ⟨EOL⟩ ⟨pblock⟩ ⟨EOL⟩ "ENDPROC" ⟨EOL⟩
⟨pblock⟩ ::= ⟨statement⟩ | ⟨local⟩ | ⟨statement⟩ ⟨EOL⟩ ⟨pblock⟩ | ⟨local⟩ ⟨EOL⟩ ⟨pblock⟩
⟨local⟩ ::= "LOCAL" ⟨whitespace⟩ ⟨typed identifier⟩
⟨statement⟩ ::= ⟨let⟩ | ⟨if⟩ | ⟨while⟩ | ⟨for⟩ | ⟨case⟩ | ⟨goto⟩ | ⟨dim⟩ | ⟨print⟩ |
    ⟨input⟩ | ⟨statement⟩ ":" ⟨statement⟩
⟨let⟩ ::= "LET" ⟨whitespace⟩ ⟨typed identifier⟩ ⟨whitespace⟩ "=" ⟨whitespace⟩
    ⟨expression⟩
⟨if⟩ ::= "IF" ⟨whitespace⟩ ⟨expression⟩ ⟨whitespace⟩ "THEN" ⟨whitespace⟩ ⟨statement⟩ |
    "IF" ⟨whitespace⟩ ⟨expression⟩ ⟨whitespace⟩ "THEN" ⟨whitespace⟩ ⟨statement⟩ "ELSE"
    ⟨whitespace⟩ ⟨statement⟩ | "IF" ⟨whitespace⟩ ⟨expression⟩ ⟨whitespace⟩ "THEN" ⟨EOL⟩
    ⟨block⟩ ⟨EOL⟩ "ELSE" ⟨EOL⟩ ⟨block⟩ ⟨EOL⟩ "ENDIF"
⟨while⟩ ::= "WHILE" ⟨whitespace⟩ ⟨expression⟩ ⟨EOL⟩ ⟨block⟩ ⟨EOL⟩ "ENDWHILE"
⟨for⟩ ::= ⟨for header⟩ ⟨EOL⟩ ⟨block⟩ ⟨EOL⟩ "NEXT" ⟨whitespace⟩ ⟨typed identifier⟩
⟨for header⟩ ::= "FOR" ⟨whitespace⟩ ⟨typed identifier⟩ ⟨whitespace⟩ "=" ⟨whitespace⟩
    ⟨expression⟩ ⟨whitespace⟩ ⟨for to⟩ ⟨whitespace⟩ ⟨for step⟩
⟨type⟩ ::= "%" | "$" | ""
⟨typed identifier⟩ ::= ⟨identifier⟩ ⟨type⟩
⟨proc iden⟩ ::= "PROC" ⟨identifier⟩
⟨identifier⟩ ::= ⟨letter⟩ ⟨identifier cont.⟩
⟨identifier cont.⟩ ::= "" | ⟨letter⟩ | ⟨digit⟩ | "_" | ⟨letter⟩ ⟨identifier cont.⟩ |
    ⟨digit⟩ ⟨identifier cont.⟩ | "_" ⟨identifier cont.⟩
⟨whitespace⟩ ::= ⟨SP⟩ | ⟨TAB⟩ | ⟨SP⟩ ⟨whitespace⟩ | ⟨TAB⟩ ⟨whitespace⟩