

Below is the Context Free Grammar that the compiler is created for.

```
PROG → DEC | DEC; PROG
DEC → def ID (VARDEC) = E
VARDEC → ε | VARDECNE
VARDECNE → ID | VARDECNE, ID
ID → ... (identifiers)
INT → ... (Integers)
E → INT
  | ID
  | if E COMP E then E else E endif
  | (E BINOP E)
  | (E)
  | ID(ARGS)
  | skip
  | (E; E)
  | while E COMP E do E endwhile
  | repeat E until E COMP E endrepeat
  | ID := E
  | break
  | continue
ARGS → ε | ARGSNE
ARGSNE → E | ARGSNE, E
COMP → == | < | > | <= | >=
BINOP → + | - | * | /
```