

Run[[Program]] =
 Execute[[Block]]
 HALT

Elaborate[[Declaration*]] =
 Elaborate[[Declaration₁]]
 Elaborate[[Declaration₂]]
 ...
 Elaborate[[Declaration_n]]

Elaborate[[var Identifier;]] =

Elaborate[[**func Identifier(IdList) Block return Expression;**]]=
 Elaborate[[**IdList**]]
 Execute[[**Block**]]
 Evaluate[[**Expression**]]
 RETURN (1) paramsize

Elaborate[[IdList]] =

```
Execute[[Statement*]] =  
    Execute[[Statement1]]  
    Execute[[Statement2]]  
    ...  
    Execute[[Statementn]]
```

Execute[[Expression;]] =
Evaluate[[Expression]]
POP 1

```

Execute[[if Expression then Statements1 else Statements2 fi;]] =
    Evaluate[[Expression]]
    JUMPIF (0) e
    Execute[[Statements1]]
    JUMP d
    e: Execute[[Statements2]]
    d:

```

Execute[[**while** Expression **do** Statements **od;**]] =

r: *Evaluate*[[Expression]]

 JUMPIF (0) d

Evaluate[[Statements]]

 JUMP r

d:

Execute[[**say** Expression;]] =

Evaluate[[Expression]]

 CALL putint

 CALL puteol

Evaluate[[**Identifier** := Expression]] =

Evaluate[[Expression]]

 STORE varoffset[varreg]

 LOAD varoffset[varreg]

Evaluate[[Expression₁ **Operator** Expression₂]] =

Evaluate[[Expression₁]]

Evaluate[[Expression₂]]

 CALL operator

Evaluate[[**-** Expression]] =

Evaluate[[Expression]]

 CALL neg

Evaluate[[**+** Expression]] =

Evaluate[[Expression]]

Evaluate[[IntegerLiteral]] =

 LOADL literal

Evaluate[[**Identifier**]] =

 LOAD varoffset[varreg]

Evaluate[[**Identifier**(ExpressionList)]] =

Evaluate[[ExpressionList]]

 CALL (funcreg) funcadr[CB]

Evaluate[[Expression (, Expression)*]] =

Evaluate[[Expression₁]]

Evaluate[[Expression₂]]

...

Evaluate[[Expression_n]]