

Grammar for Compiler:

program = block

block = { statementlist }

statementlist = emptystatementlist | realstatementlist

emptystatementlist = \emptyset

realstatementlist = statement ; statementlist

statement = ifstatement | whilestatement |
printstatement | assignstatement | block

ifstatement = **if** expression **then** statement

whilestatement = **while** expression **do** statement

printstatement = **print** expression

assignstatement = identifier = expression

expression = identifier | number | binaryexpression

binaryexpression = (expression **binaryoperator** expression)