

TINY Grammar:

program → *stmt-sequence*

stmt-sequence → *stmt-sequence* ; *statement* | *statement*

statement → *if-stmt* | *repeat-stmt* | *assign-stmt* | *read-stmt* | *write-stmt*

if-stmt → if *exp* then *stmt-sequence* end

 | if *exp* then *stmt-sequence* else *stmt-sequence* end

repeat-stmt → repeat *stmt-sequence* until *exp*

assign-stmt → *identifier* := *exp*

read-stmt → read *identifier*

write-stmt → write *exp*

exp → *simple-exp* *comparison-op* *simple-exp* | *simple-exp*

comparison-op → < | =

simple-exp → *simple-exp* *addop* *term* | *term*

addop → + | -

term → *term* *mulop* *factor* | *factor*

mulop → * | /

factor → (*exp*) | *number* | *identifier*