

spec2-2

<program> \Rightarrow <function>

<function> \Rightarrow <typename> <identifier> (<argument-list>) <block>

<argument-list> \Rightarrow <argument-list> , <argument>

<argument-list> \Rightarrow <argument>

<argument> \Rightarrow <typename> <identifier>

<argument> \Rightarrow <void>

<statement-list> \Rightarrow <statement-list> <statement>

<statement-list> \Rightarrow ϵ

<statement> \Rightarrow <expression> ;

<statement> \Rightarrow <typename> <variable-list> ;

<statement> \Rightarrow <if-statement>

<statement> \Rightarrow <while-statement>

<while-statement> \Rightarrow while (<expression>) <block>

<if-statement> \Rightarrow if (<expression>) <block>

<block> \Rightarrow <statement>

<block> \Rightarrow { <statement-list> }

<variable-list> \Rightarrow <identifier>

<variable-list> \Rightarrow <variable-list> , <identifier>

<expression> \Rightarrow <term>

<expression> \Rightarrow (<expression>)

<expression> \Rightarrow <expression> <operator> <term>

<typename> \Rightarrow <int>

<typename> \Rightarrow <double>

<operator> \Rightarrow +

<operator> \Rightarrow -

<operator> \Rightarrow *

<operator> \Rightarrow /

<operator> \Rightarrow =

<operator> \Rightarrow ==

<operator> \Rightarrow >

<operator> \Rightarrow <

<term> \Rightarrow <integer>

<term> \Rightarrow <real>

<term> \Rightarrow <identifier>