

GRAMMAR BAIL-IN

<i>Program</i>	<code>:= Block*</code>
<i>Block</i>	<code>:= @ TypeList @ Identifier ((ϵ DeclarationList)) { CommandList return ExpressionList ; }</code>
<i>CommandList</i>	<code>:= Command*</code>
<i>Command</i>	<code>:= if \$ Expression \$ { CommandList } (ϵ else { CommandList }) loop \$ (ϵ Expression) \$ { CommandList } Declaration ; Assignment ; Function ;</code>
<i>DeclarationList</i>	<code>:= Declaration (: Declaration)*</code>
<i>Declaration</i>	<code>:= Type Identifier (ϵ [IntegerLiteral]) (, Identifier (ϵ [IntegerLiteral]))*</code>
<i>ExpressionList</i>	<code>:= Expression (, Expression)*</code>
<i>Assignment</i>	<code>:= IdentifierList <- ExpressionList</code>
<i>IdentifierList</i>	<code>:= IdentifierItem (, IdentifierItem)*</code>
<i>IdentifierItem</i>	<code>:= Identifier (ϵ [Expression])</code>
<i>Expression</i>	<code>:= Quaternary (ϵ OperatorQ Expression)</code>
<i>Quaternary</i>	<code>:= Tertiary (ϵ OperatorT Quaternary)</code>
<i>Tertiary</i>	<code>:= Secondary (ϵ OperatorS Tertiary)</code>
<i>Secondary</i>	<code>:= Primary (ϵ OperatorP Secondary)</code>
<i>Primary</i>	<code>:= IdentifierItem IntegerLiteral (Expression) Function</code>
<i>Function</i>	<code>:= @ (readBool writeBool readChar writeChar readInt writeInt Identifier) ((ϵ ExpressionList))</code>
<i>Operator</i>	<code>:= ++ -- ** // %% ^^ >= <= << >> == <> && ## !& ! !#</code>
<i>TypeList</i>	<code>:= Type (, Type)*</code>
<i>Type</i>	<code>:= int bool</code>
<i>IntegerLiteral</i>	<code>:= A-Z a-z 0-9 TRUE FALSE</code>