Program	\rightarrow	void main () { Declarations Statements }
Declarations	\rightarrow	$\varepsilon \mid Declarations \ Declaration$
Declaration	\rightarrow	Type Identifiers;
Type	\rightarrow	int boolean
Identifiers	\rightarrow	Identifier Identifiers, Identifier
Statements	\rightarrow	$\varepsilon \mid Statements \; Statement$
Statement	\rightarrow	; Block Assignment IfStatement WhileStatement
Block	\rightarrow	{ Statements }
Assignment	\rightarrow	Identifier = Expression;
$I\!f\!Statement$	\rightarrow	if (Expression) Statement
		if (Expression) Statement else Statement
While Statement	\rightarrow	while (Experssion) Statement
Expression	\rightarrow	Conjunction Expression Conjunction
Conjunction	\rightarrow	Relation
		Conjunction && Relation
Relation	\rightarrow	Addition
		Relation < Addition
		Relation <= Addition
		$Relation > Addition \mid$
		$Relation >= Addition \mid$
		$Relation == Addition \mid$
		Relation ! = Addition
Addition	\rightarrow	Term
		$Addition + Term \mid$
		Addition - Term
Term	\rightarrow	Negation
		Term * Negation
		Term / Negation
Negation	\rightarrow	Factor ! Factor
Factor	\rightarrow	$Identifier \mid Literal \mid (Expression)$

Program	\rightarrow	void main () '{' <i>Declarations Statements</i> '}'
Declarations	\rightarrow	{ Declaration }*
Declaration	\rightarrow	Type Identifiers;
Type	\rightarrow	int boolean
Identifiers	\rightarrow	Identifer { , Identifier }*
Statements	\rightarrow	{ Statement }*
Statement	\rightarrow	; $Block$ $Assignment$ $IfStatement$ $WhileStatement$
Block	\rightarrow	'{' Statements '}'
Assignment	\rightarrow	Identifier = Expression;
$I\!f\!Statement$	\rightarrow	if (<i>Expression</i>) Statement { else Statement } $_{opt}$
While Statement	\rightarrow	while (<i>Experssion</i>) Statement
Expression	\rightarrow	Conjunction { \sqcap Conjunction }*
Conjunction	\rightarrow	Relation { && Relation } $*$
Relation	\rightarrow	Addition [< <= > >= == ! =] Addition
Addition	\rightarrow	$Term \{ [+ -] Term \} *$
Term	\rightarrow	Negation $[*]$ Negation
Negation	\rightarrow	$\{ ! \}_{opt} Factor$
Factor	\rightarrow	$Identifier \mid Literal \mid (Expression)$