TestLang grammar

Start symbol: Program

Program	::= DeclarationList
DeclarationList	::= DeclarationList declaration | Declaration
Declaration	::= VarDeclaration | OprDeclaration | ε
VarDeclaration	::= **Identifier: Type ;** | **Identifier: Type** = Literal**;** | CollectionDeclaration
CollectionDeclaration	::= **Identifier:** col <Type> { NumberLiteral }; | **Identifier:** col <Type> { **Identifier** }; | **Identifier:** col <Type> = CollectionLiteral;
OprDeclaration	::= **opr Identifier (** IdList **)** Block **send** Expression **;**
Type	::= number | letter | sate |col
Block	::= [VarDeclarations StatementsList]
IdList	::= **Identifier** IdListTail | Literal IdListTail | ε
IdListTail	::= **, Identifier** IdListTail |, Literal IdListTail | ε
StatementsList	::= Statement | StatementsList Statement

Statement	::= Expression **;** | ? (Expression) **Block** | **until** (Expression) **Block** | **out** <= Expression **;** | **in** => Expression **;** | ε
Expression	::= Primary | Expression **Operator** Primary
Primary	::= **Identifier** | **Identifier (** ExpressionList **)** | **Operator** Primary | **Literal** | **(** Expression **)**
Literal	::= NumberLiteral | LetterLiteral | StateLiteral | CollectionLiteral
CollectionLiteral	::= < IdList>
ExpressionList	::= Expression ExpressionListTail | ε
ExpressionListTail	::= **,** Expression ExpressionListTail | ε
Operator	::= + | - | * | / | >| | = | == | ! | & | | | -- | << | >> | // | ‘