

FloaJay

<i>Type</i>	→	int boolean <u>float</u>
<i>Term</i>	→	<u>Cast</u> { <i>MulOp</i> <u>Cast</u> } *
MulOp	→	'*' /
<u>Cast</u>	→	<u>(Type) Negation</u>

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<i>Program</i>	→	public class ID '{' <u><i>GlobalDeclarations</i></u> public static void main (String[] args) '{' <i>Declarations Statements</i> '}' <u><i>Procedures</i></u> '}'
<u><i>GlobalDeclarations</i></u>	→	<u><i>GlobalDeclaration *</i></u>
<u><i>GlobalDeclaration</i></u>	→	<u><i>static Type Identifiers ;</i></u>
<i>Declarations</i>	→	<i>Declaration *</i>
<i>Declaration</i>	→	<i>Type Identifiers ;</i>
<i>Type</i>	→	int boolean
<i>Identifiers</i>	→	ID { , ID } *
<i>Statements</i>	→	<i>Statement *</i>
<i>Statement</i>	→	; <i>Block</i> <i>Assignment</i> <i>IfStatement</i> <i>WhileStatement</i> <i>PrintStatement</i> <u><i>CallStatement</i></u> <u><i>ReturnStatement</i></u>
<i>Block</i>	→	'{' <i>Declarations Statements</i> '}'
<i>Assignment</i>	→	ID = <i>Expression</i> ;

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<u>IfStatement</u>	→	if (<i>Expression</i>) <i>Statement</i> { else <i>Statement</i> }
<u>WhileStatement</u>	→	while (<i>Expression</i>) <i>Statement</i>
<u>PrintStatement</u>	→	System.out.println (<i>Expression</i>) ;
<u>CallStatement</u>	→	<u>Identifier</u> (<i>ActParams?</i>) ;
<u>ActParams</u>	→	<u>Expression</u> { , <i>Expression</i> } *
<u>ReturnStatement</u>	→	return <i>Expression?</i> ;
<u>Expression</u>	→	<u>Conjunction</u> { <i>Conjunction</i> } *
<u>Conjunction</u>	→	<i>Relation</i> { && <i>Relation</i> } *
<u>Relation</u>	→	<i>Addition</i> { <i>RelOp</i> <i>Addition</i> } ?
<u>RelOp</u>	→	< <= > >= == !=
<u>Addition</u>	→	<i>Term</i> { <i>AddOp</i> <i>Term</i> } *
<u>AddOp</u>	→	+ -
<u>Term</u>	→	<i>Negation</i> { <i>MulOp</i> <i>Negation</i> } *
<u>MulOp</u>	→	'*' /
<u>Negation</u>	→	<i>NegOp?</i> <i>Factor</i>
<u>NegOp</u>	→	! -
<u>Factor</u>	→	ID LITERAL (<i>Expression</i>) <u>Call</u>

<u>Call</u>	→	<u>Identifier (ActParams ?)</u>
<u>Procedures</u>	→	<u>Procedure *</u>
<u>Procedure</u>	→	<u>static Return Type ID (FormParams?)</u> <u>'{ ' Declarations Statements '}'</u>
<u>Return Type</u>	→	<u>Type void</u>
<u>FormParams</u>	→	<u>FormParam { , FormParam } *</u>
<u>FormParam</u>	→	<u>Type ID</u>