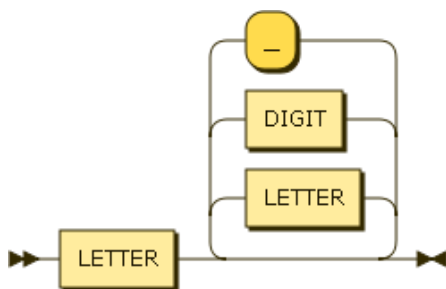


**program:**

program ::= classlist?

no references

**ident:**

ident ::= LETTER ( LETTER | DIGIT | '-' )\*

referenced by:

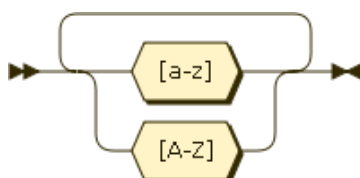
- [alocexpression](#)
- [classdecl](#)
- [lvalue](#)
- [methoddecl](#)
- [paramlist](#)
- [switchStat](#)
- [vardecl](#)

**DIGIT:**

DIGIT ::= [0-9]+

referenced by:

- [blockComment](#)
- [ident](#)
- [intLiteral](#)
- [lineComment](#)
- [stringLiteral](#)

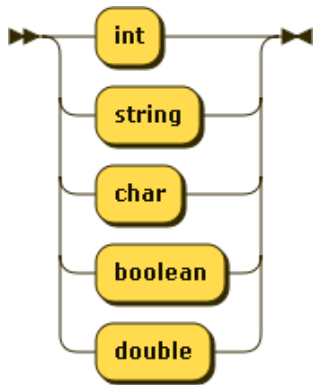
**LETTER:**

LETTER ::= [a-zA-Z]+

referenced by:

- [blockComment](#)
- [ident](#)
- [lineComment](#)
- [stringLiteral](#)

### primitivetype:



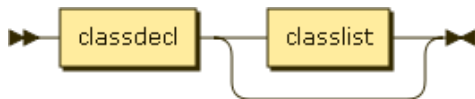
```

primitivetype
  ::= 'int'
    | 'string'
    | 'char'
    | 'boolean'
    | 'double'
  
```

referenced by:

- [alocexpression](#)
- [methoddecl](#)
- [paramlist](#)
- [vardecl](#)

### classlist:



```

classlist
  ::= classdecl classlist?
  
```

referenced by:

- [classbody](#)
- [classlist](#)
- [program](#)

### classdecl:



```

classdecl
  ::= 'class' ident ( 'extends' ident )? classbody
  
```

referenced by:

- [classlist](#)

### classbody:

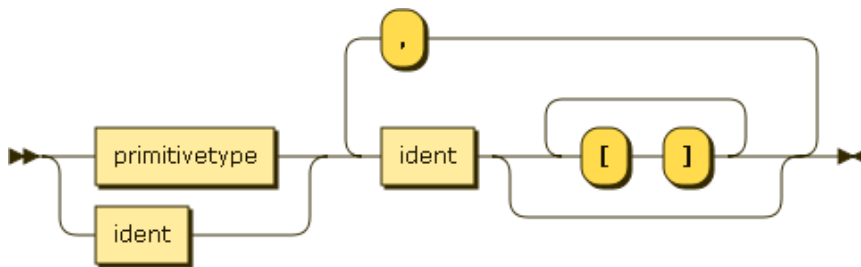


classbody  
 ::= '{' classlist? ( vardecl ';' ) \* constructdecl\* methoddecl\* '}'

referenced by:

- [classdecl](#)

### vardecl:



vardecl ::= ( primitivetype | ident ) ident ( '[' ']' ) \* ( ',' ident ( '[' ']' ) \* ) \*

referenced by:

- [classbody](#)
- [statement](#)

### constructdecl:

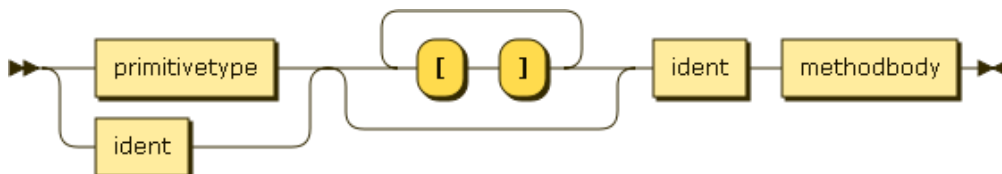


constructdecl  
 ::= 'constructor' methodbody

referenced by:

- [classbody](#)

### methoddecl:

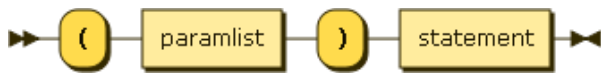


methoddecl  
 ::= ( primitivetype | ident ) ( '[' ']' ) \* ident methodbody

referenced by:

- [classbody](#)

### methodbody:

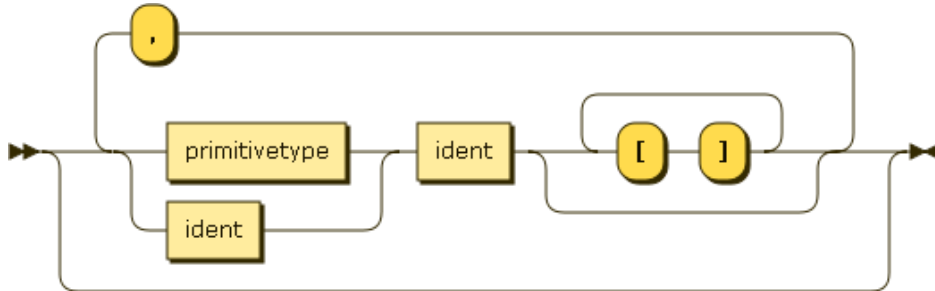


methodbody  
 ::= '(' paramlist ')' statement

referenced by:

- [constructdecl](#)
- [methoddecl](#)

### paramlist:

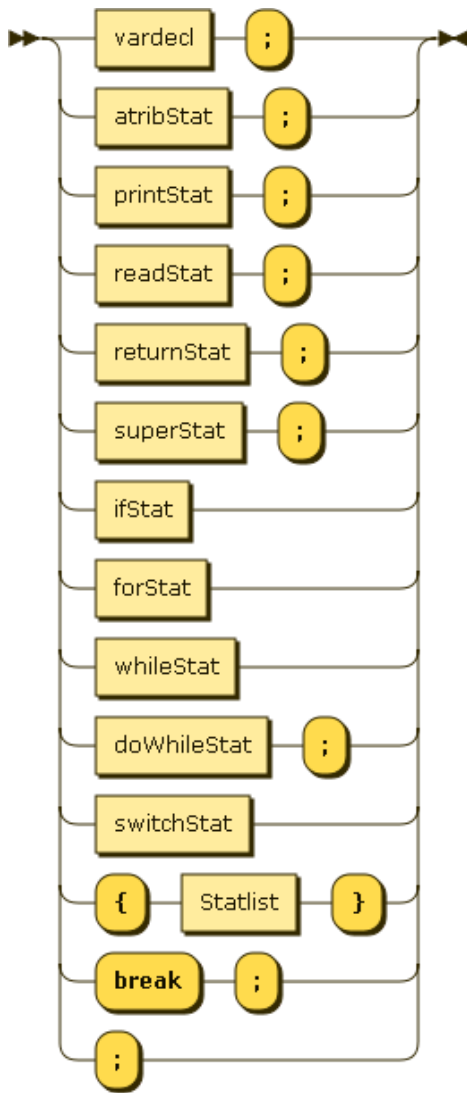


paramlist  
 ::= ( ( primitivetype | ident ) ident ( '[' ']' ) \* ( ',' ( primitivetype | ident ) ident ( '[' ']' ) \* ) \* ) ?

referenced by:

- [methodbody](#)

### statement:



statement

```

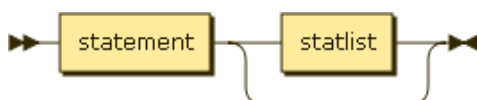
::= vardecl ';'
    | atribStat ';'
    | printStat ';'
    | readStat ';'
    | returnStat ';'
    | superStat ';'
    | ifStat
    | forStat
    | whileStat
    | doWhileStat ';'
    | switchStat
    | '{' statlist '}'
    | 'break' ';'
    | ';'

```

referenced by:

- [doWhileStat](#)
- [forStat](#)
- [ifStat](#)
- [methodbody](#)
- [statlist](#)
- [switchCaseStat](#)
- [whileStat](#)

**statlist:**

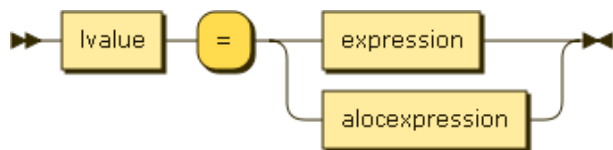


statlist ::= statement statlist?

referenced by:

- [statlist](#)

### atribStat:



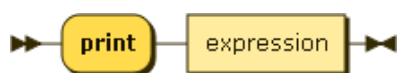
```

atribStat
  ::= lvalue '=' ( expression | alocexpression )
  
```

referenced by:

- [forStat](#)
- [statement](#)

### printStat:



```

printStat
  ::= 'print' expression
  
```

referenced by:

- [statement](#)

### readStat:



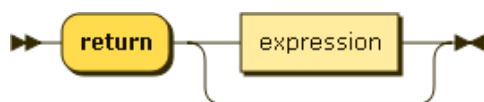
```

readStat ::= 'read' lvalue
  
```

referenced by:

- [statement](#)

### returnStat:



```

returnStat
  ::= 'return' expression?
  
```

referenced by:

- [statement](#)

### superStat:

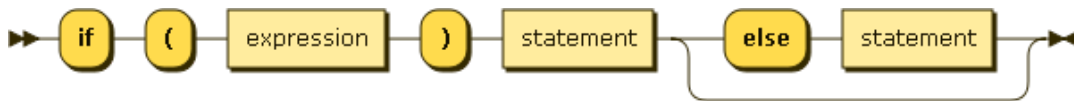


```
superStat
    ::= 'super' '(' arglist ')'
```

referenced by:

- [statement](#)

### ifStat:



```
ifStat ::= 'if' '(' expression ')' statement ( 'else' statement )?
```

referenced by:

- [statement](#)

### forStat:

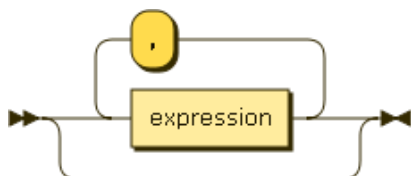


```
forStat ::= 'for' '(' atribStat? ';' expression? ';' atribStat? ')' statement
```

referenced by:

- [statement](#)

### arglist:

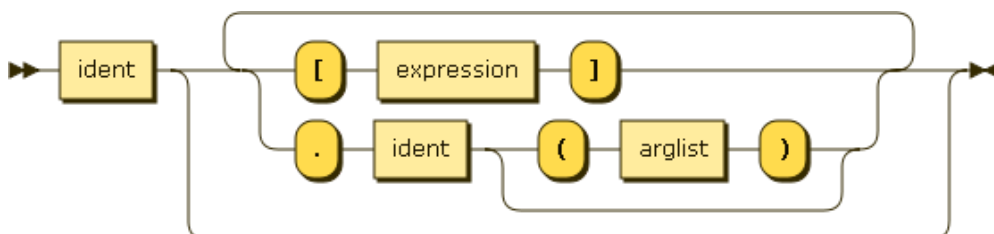


```
arglist ::= ( expression ( ',' expression )* )?
```

referenced by:

- [alocexpression](#)
- [lvalue](#)
- [superStat](#)

### lvalue:

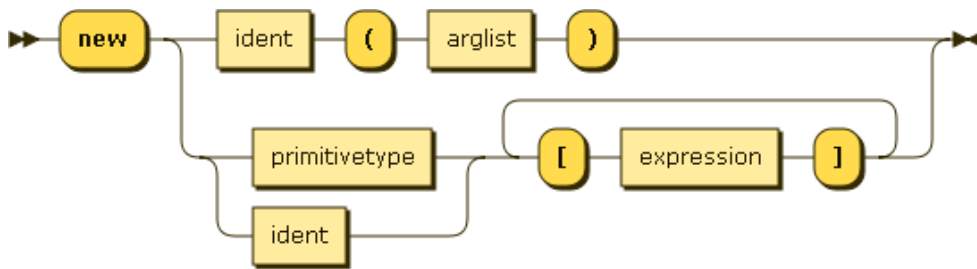


```
lvalue ::= ident ( '[' expression ']' | '.' ident '(' arglist ')' )? )*
```

referenced by:

- [atribStat](#)
- [factor](#)
- [readStat](#)

### alocexpression:



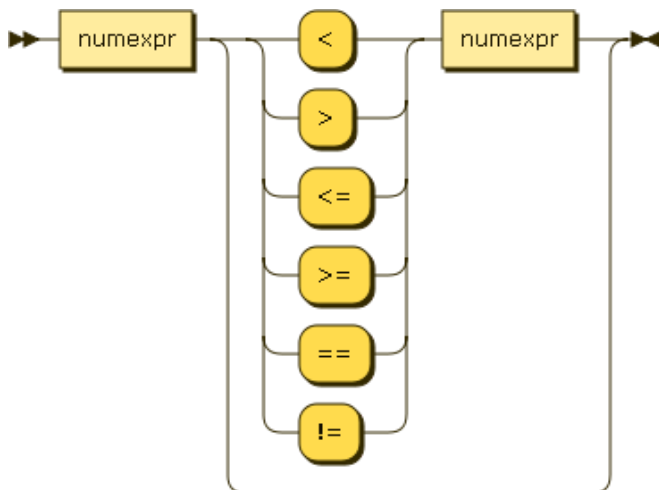
alocexpression

::= 'new' ( ident '(' arglist ')' | ( primitivetype | ident ) '[' expression ']' ( '[' expression ']' )\* )

referenced by:

- [atribStat](#)

### expression:



expression

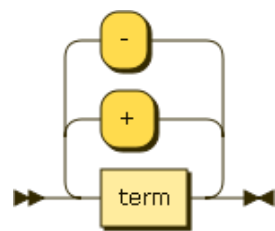
::= numexpr ( ( '<' | '>' | '<=' | '>=' | '==' | '!=' ) numexpr )?

referenced by:

- [alocexpression](#)
- [arglist](#)
- [atribStat](#)
- [doWhileStat](#)
- [factor](#)
- [forStat](#)
- [ifStat](#)
- [lvalue](#)
- [printStat](#)
- [returnStat](#)
- [whileStat](#)

### numexpr:



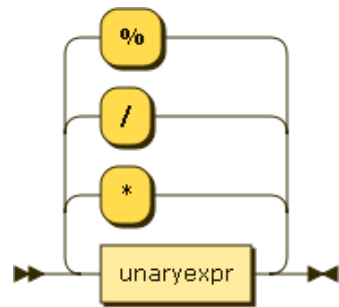


`numexpr ::= term ( ( '+' | '-' ) term )*`

referenced by:

- [expression](#)

**term:**

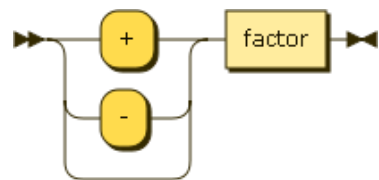


`term ::= unaryexpr ( ( '*' | '/' | '%' ) unaryexpr )*`

referenced by:

- [numexpr](#)

**unaryexpr:**

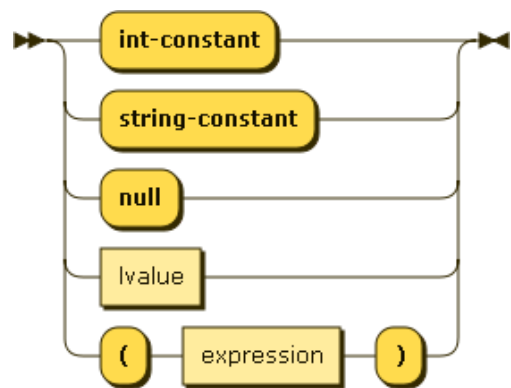


`unaryexpr ::= ( '+' | '-' )? factor`

referenced by:

- [term](#)

**factor:**



```

factor ::= 'int-constant'
        | 'string-constant'
        | 'null'
        | lvalue
        | '(' expression ')'

```

referenced by:

- [switchCaseStat](#)
- [unaryexpr](#)

### whileStat:



```

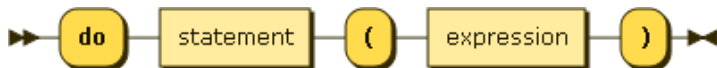
whileStat
    ::= 'while' '(' expression ')' statement

```

referenced by:

- [statement](#)

### doWhileStat:



```

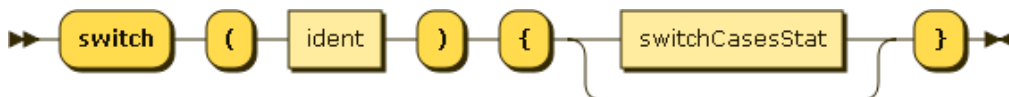
doWhileStat
    ::= 'do' statement '(' expression ')'

```

referenced by:

- [statement](#)

### switchStat:



```

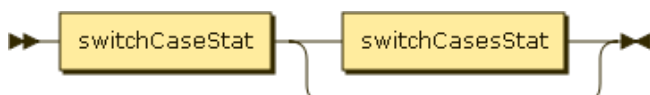
switchStat
    ::= 'switch' '(' ident ')' '{' switchCasesStat? '}'

```

referenced by:

- [statement](#)

### switchCasesStat:



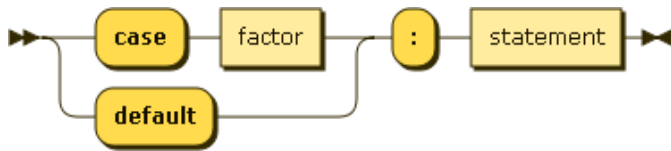
```

switchCasesStat
    ::= switchCaseStat switchCasesStat?

```

referenced by:

- [switchCasesStat](#)
- [switchStat](#)

**switchCaseStat:**

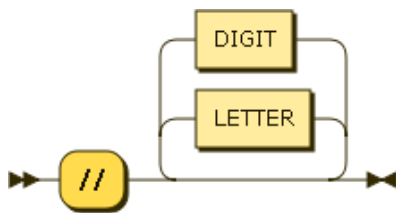
```

switchCaseStat
  ::= ( 'case' factor | 'default' ) ':' statement

```

referenced by:

- [switchCasesStat](#)

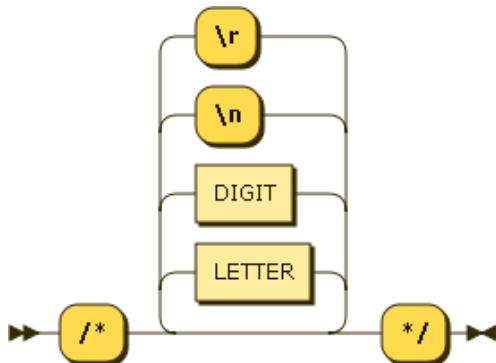
**lineComment:**

```

lineComment
  ::= '//' ( LETTER | DIGIT )*

```

no references

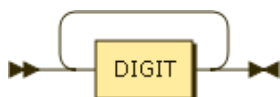
**blockComment:**

```

blockComment
  ::= '/*' ( LETTER | DIGIT | '\n' | '\r' )* '*/'

```

no references

**intLiteral:**

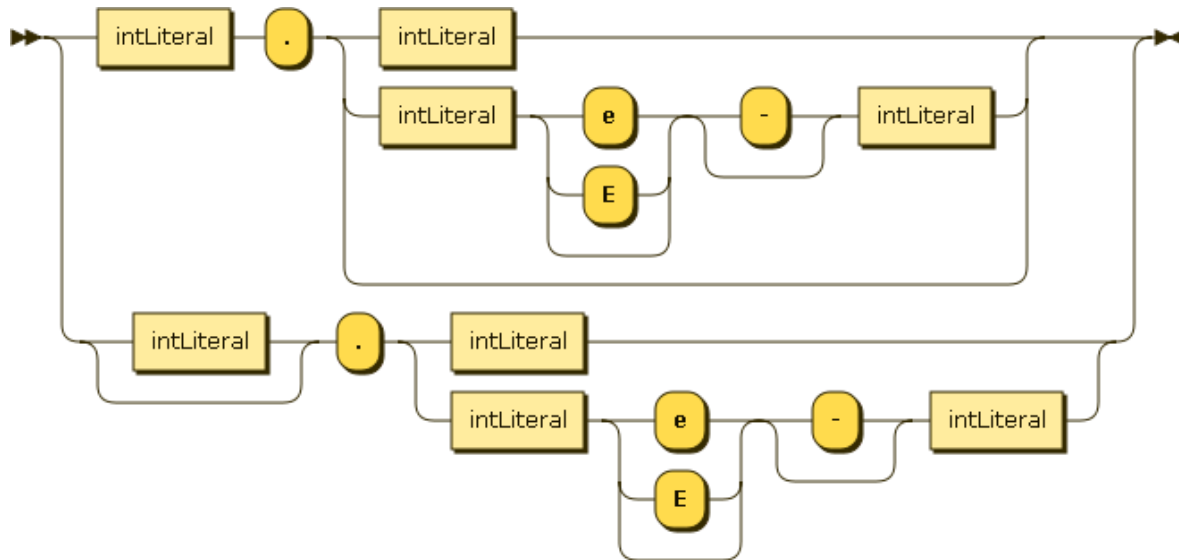
```

intLiteral
  ::= DIGIT DIGIT*

```

referenced by:

- [floatLiteral](#)

**floatLiteral:**

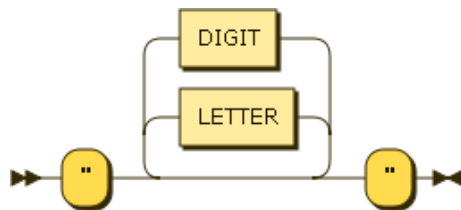
floatLiteral

```

::= intLiteral '.' ( intLiteral | intLiteral ( 'e' | 'E' )? '-'? intLiteral )?
    | intLiteral? '.' ( intLiteral | intLiteral ( 'e' | 'E' )? '-'? intLiteral )

```

no references

**stringLiteral:**

stringLiteral

```

::= '"' ( LETTER | DIGIT )* '"'

```

no references

... generated by [Railroad Diagram Generator](#)