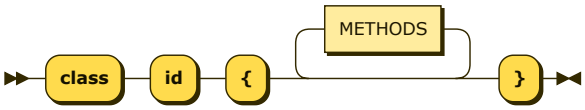
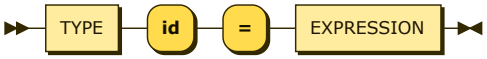
PROGRAM:




```
PROGRAM  ::= 'class' 'id' '{' METHODS* '}'
```

no references

VARIABLE:




```
VARIABLE ::= TYPE 'id' '=' EXPRESSION
```

referenced by:

- BODY
- FOR

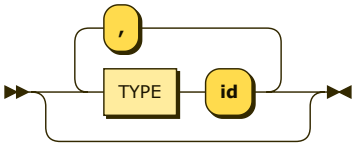
METHODS:


```
METHODS  ::= TYPE 'id' '(' PARAMS ')' '{' BODY '}'
```

referenced by:

- PROGRAM

PARAMS:




```
PARAMS   ::= ( TYPE 'id' ( ',' TYPE 'id' )* )?
```

referenced by:

- METHODS

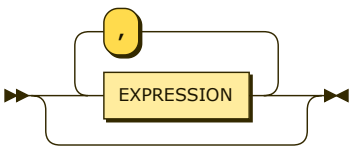
CALL_METHOD:


```
CALL_METHOD
         ::= 'id' '(' PARAM_VALUES ')'
```

referenced by:

- BODY

PARAM_VALUES:



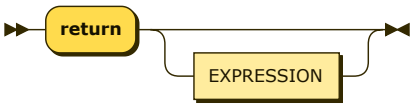

```
PARAM_VALUES
```

```
        ::= ( EXPRESSION ( ',' EXPRESSION )* )?
```

referenced by:

- CALL_METHOD

RETURN:

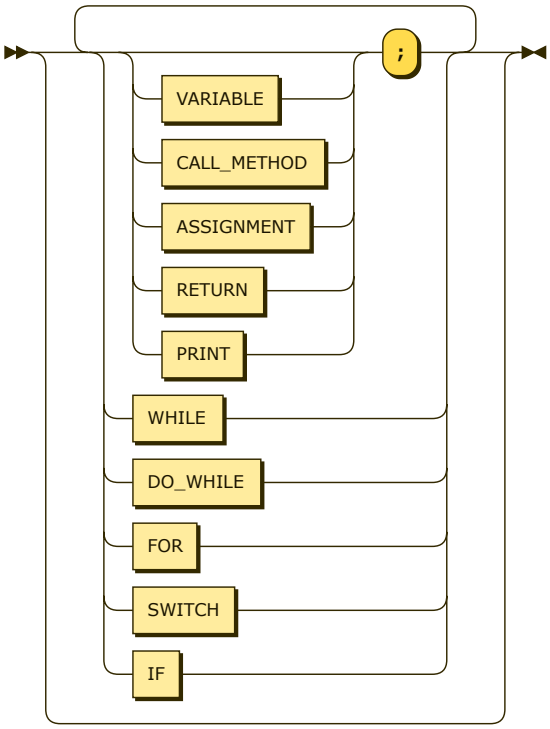



```
RETURN   ::= 'return' EXPRESSION?
```

referenced by:

- BODY

BODY:

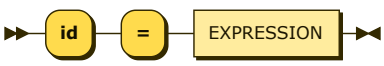



```
BODY     ::= ( ( VARIABLE | CALL_METHOD | ASSIGNMENT | RETURN | PRINT )? ';' | WHILE | DO_WHILE | FOR | SWITCH | IF )*
```

referenced by:

- DO_WHILE
- FOR
- IF
- METHODS
- SWITCH
- WHILE

ASSIGNMENT:

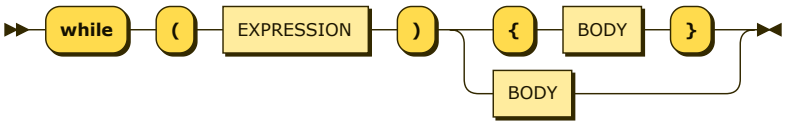



```
ASSIGNMENT
        ::= 'id' '=' EXPRESSION
```

referenced by:

- BODY
- FOR

WHILE:

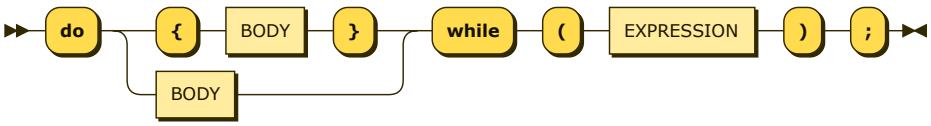



```
WHILE    ::= 'while' '(' EXPRESSION ')' ( '{' BODY '}' | BODY )
```

referenced by:

- BODY

DO_WHILE:

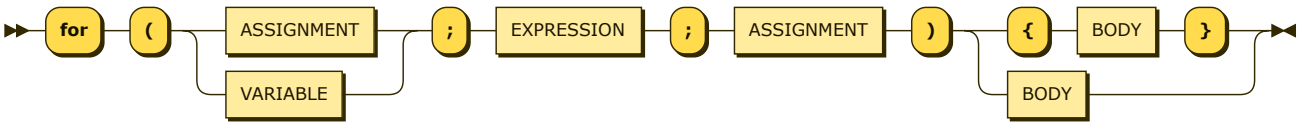



```
DO_WHILE ::= 'do' ( '{' BODY '}' | BODY ) 'while' '(' EXPRESSION ')' ';'
```

referenced by:

- BODY

FOR:

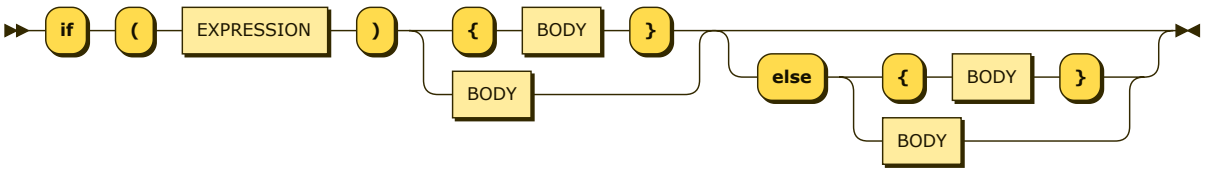



```
FOR      ::= 'for' '(' ( ASSIGNMENT | VARIABLE ) ';' EXPRESSION ';' ASSIGNMENT ')' ( '{' BODY '}' | BODY )
```

referenced by:

- BODY

IF:

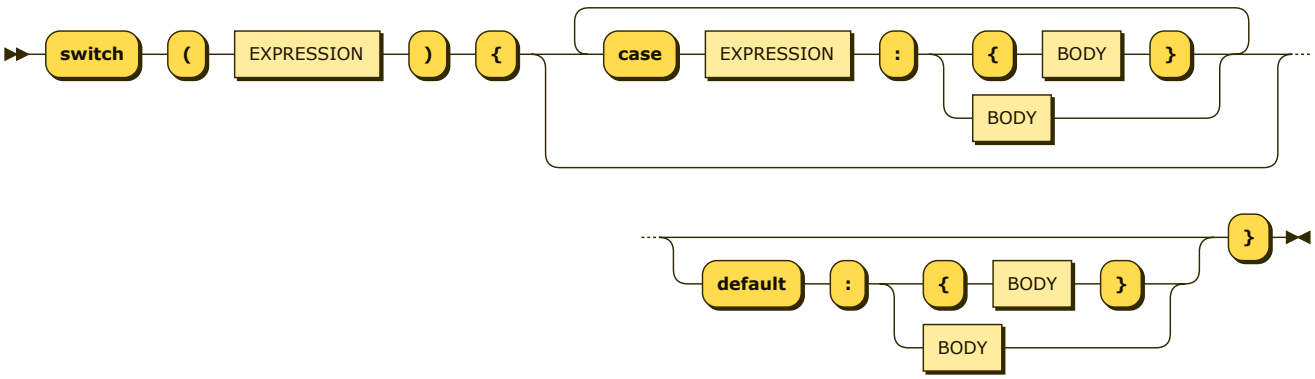



```
IF       ::= 'if' '(' EXPRESSION ')' ( '{' BODY '}' | BODY ) ( 'else' ( '{' BODY '}' | BODY ) )?
```

referenced by:

- BODY

SWITCH:

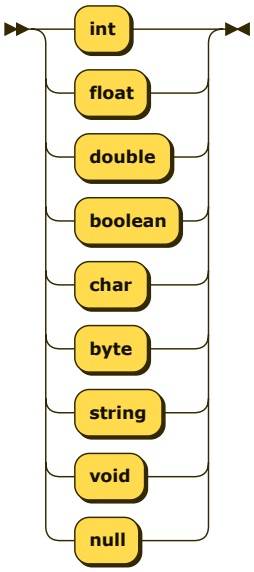


```
SWITCH   ::= 'switch' '(' EXPRESSION ')' '{' ( 'case' EXPRESSION ':' ( '{' BODY '}' | BODY ) )* ( 'default' ':' ( '{' BODY '}' | BODY ) )? '}'
```

referenced by:

- BODY

TYPE:




```
TYPE     ::= 'int'
           | 'float'
           | 'double'
           | 'boolean'
           | 'char'
           | 'byte'
           | 'string'
           | 'void'
           | 'null'
```

referenced by:

- METHODS
- PARAMS
- VARIABLE

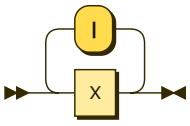
PRINT:


```
PRINT    ::= 'print' '(' EXPRESSION ')'
```

referenced by:

- BODY

EXPRESSION:



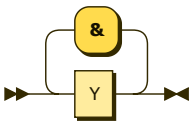

```
EXPRESSION
         ::= X ( '|' X )*
```

referenced by:

- ASSIGNMENT
- C
- DO_WHILE
- FOR
- IF

- PARAM_VALUES
- PRINT
- RETURN
- SWITCH
- VARIABLE
- WHILE

X:

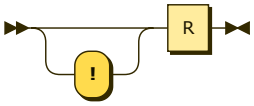



```
X        ::= Y ( '&' Y )*
```

referenced by:

- EXPRESSION

Y:

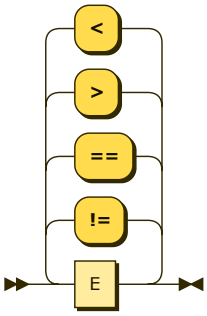



```
Y        ::= '!'? R
```

referenced by:

- X

R:

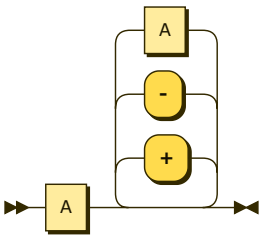



```
R        ::= E ( ( '!=' | '==' | '>' | '<' ) E )*
```

referenced by:

- Y

E:

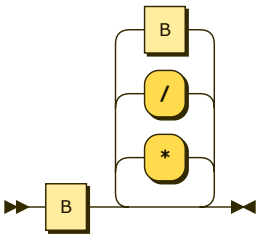



```
E        ::= A ( '+' | '-' | A )*
```

referenced by:

- R

A:

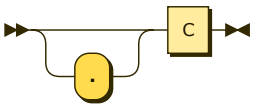



```
A       ::= B ( '*' | '/' | B )*
```

referenced by:

- E

B:

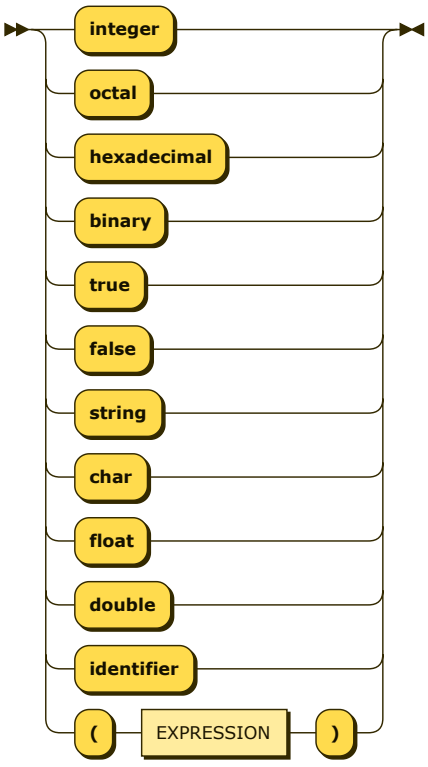



```
B       ::= '.'? C
```

referenced by:

- A

C:




```
C       ::= 'integer'
          | 'octal'
          | 'hexadecimal'
          | 'binary'
          | 'true'
          | 'false'
          | 'string'
          | 'char'
          | 'float'
          | 'double'
          | 'identifier'
          | '(' EXPRESSION ')'
```

referenced by:

- B

... generated by RR - Railroad Diagram Generator