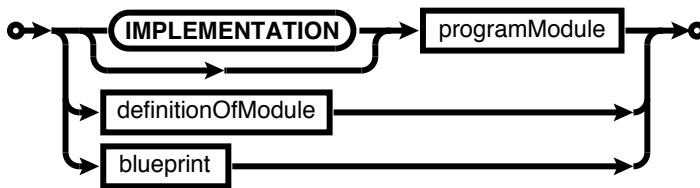


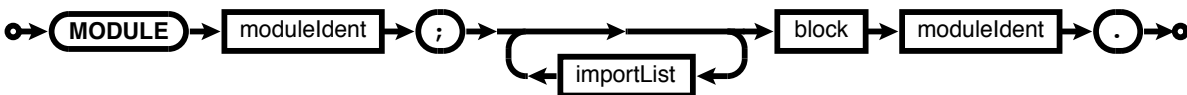
Appendix B: Syntax Diagrams

B.1 Non-Terminal Symbols

#1 Compilation Unit



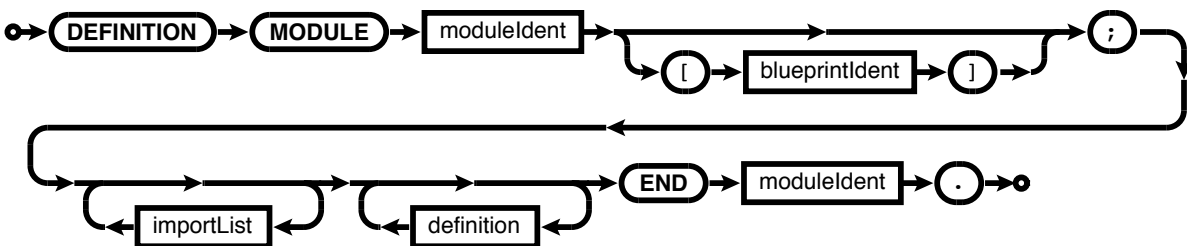
#2 Program Module



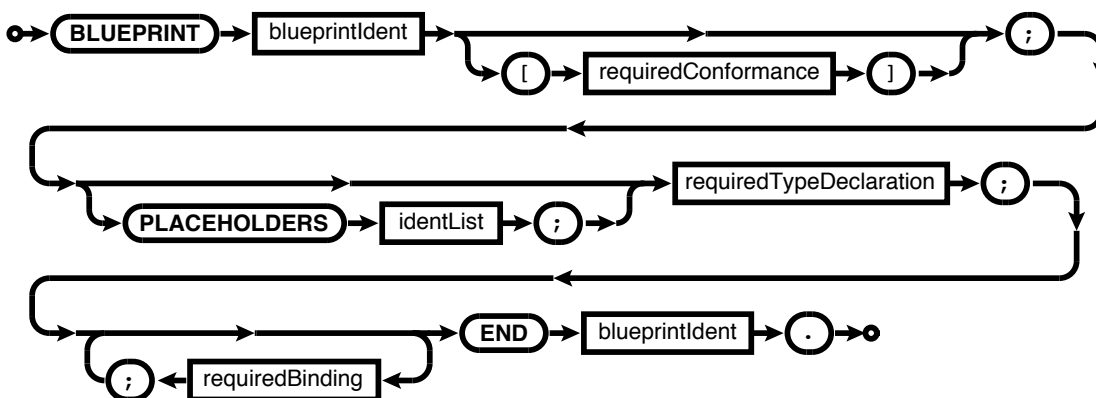
#2.1 Module Identifier



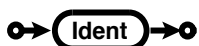
#3 Definition Of Module



#4 Blueprint



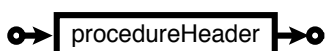
#4.1 Blueprint Identifier



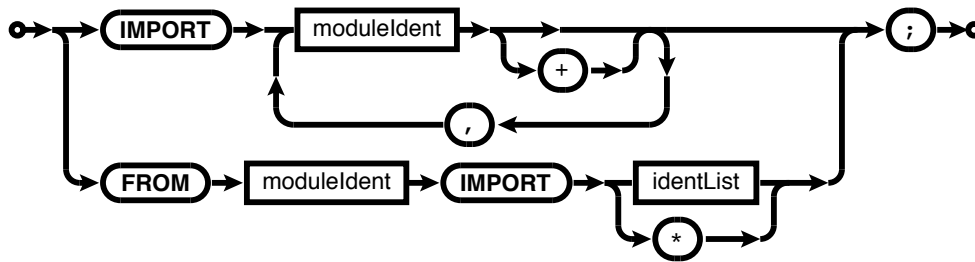
#4.2 Required Conformance



#4.3 Required Binding



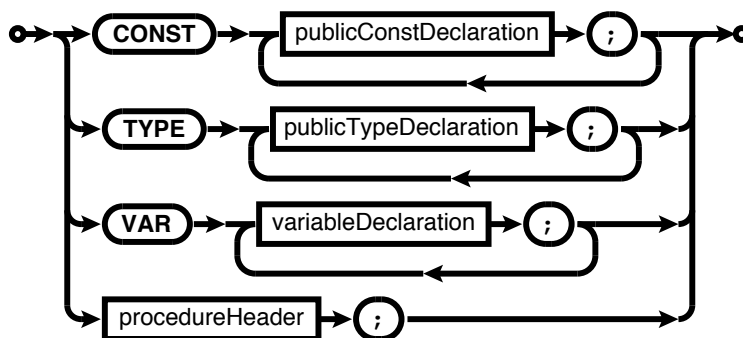
#5 Import List



#6 Block



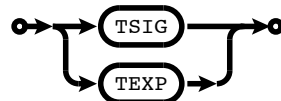
#7 Definition



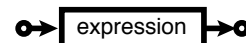
#8 Public Constant Declaration



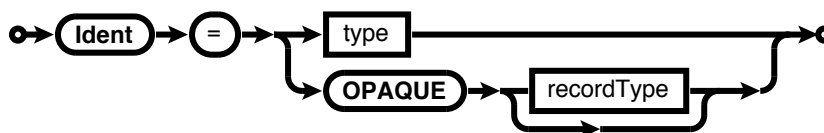
#8.1 CONST Bindable Identifier



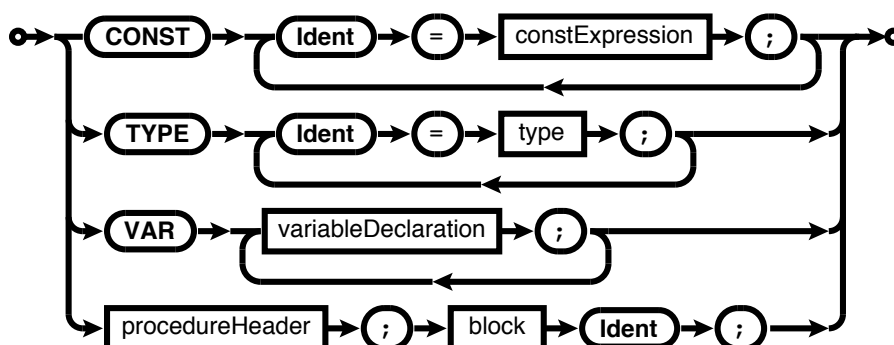
#8.2 Constant Expression

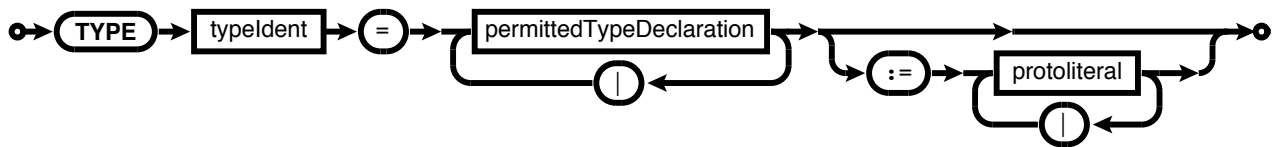
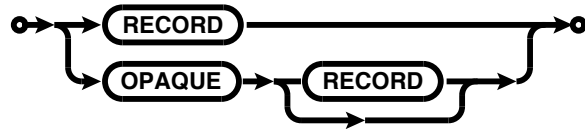
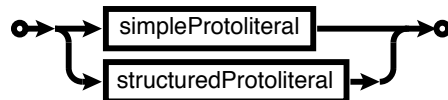
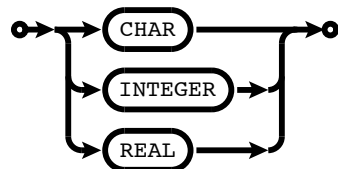
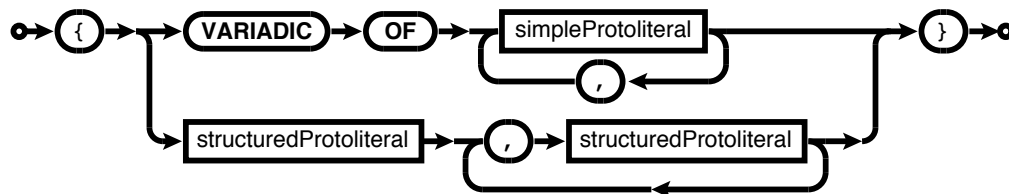
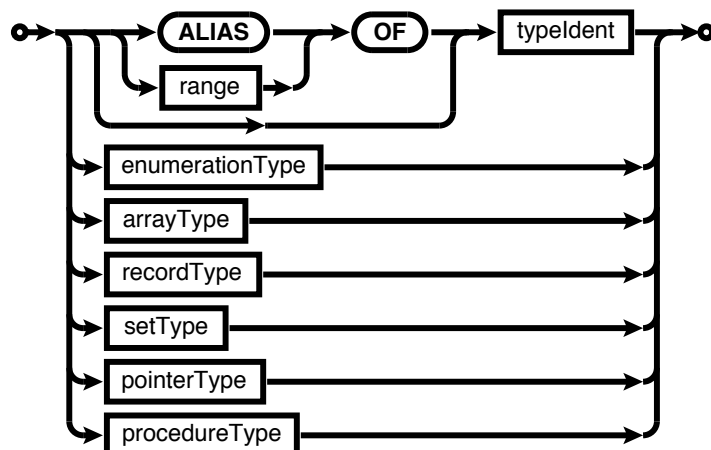
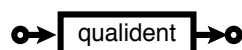


#9 Public Type Declaration



#10 Declaration

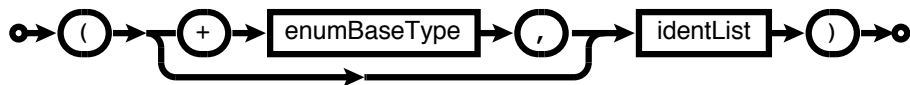


#11 Required Type Declaration**#12 Permitted Type Declaration****#13 Proto-Literal****#13.1 Simple Proto-Literal****#14 Structured Proto-Literal****#15 Type****#15.1 Type Identifier**

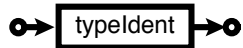
#16 Range



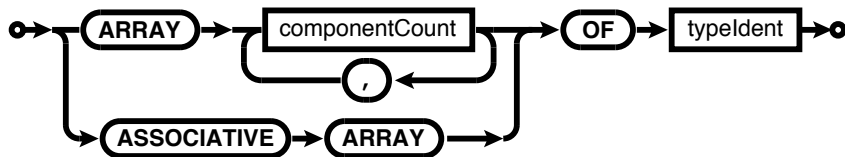
#17 Enumeration Type



#17.1 Enumeration Base Type



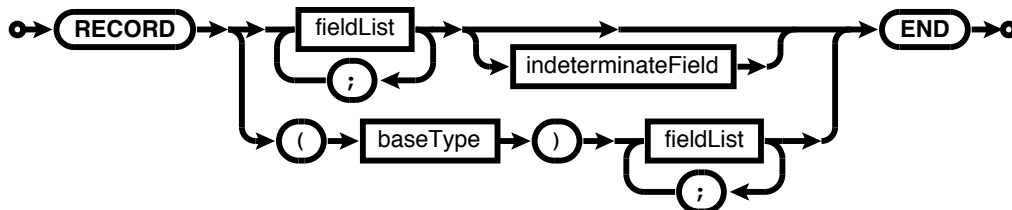
#18 Array Type



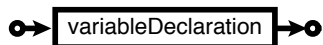
#18.1 Component Count



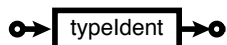
#19 Record Type



#19.1 Field List



#19.2 Base Type



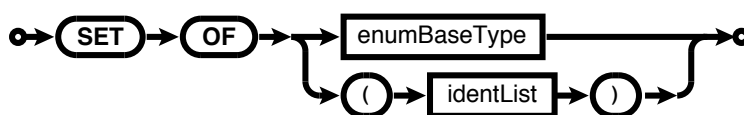
#20 Indeterminate Field



#20.1 Discriminant Field Identifier



#21 Set Type



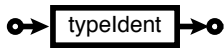
#22 Pointer Type



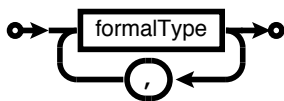
#23 Procedure Type



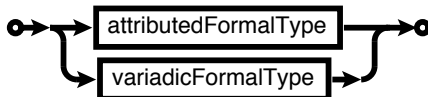
#23.1 Returned Type



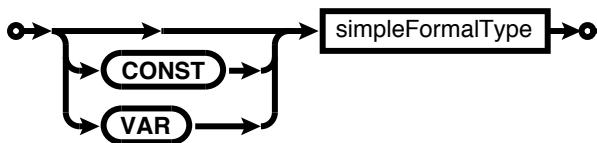
#24 Formal Type List



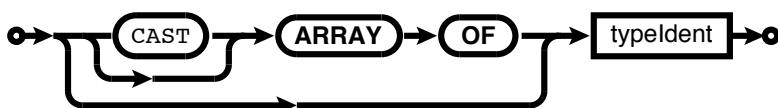
#25 Formal Type



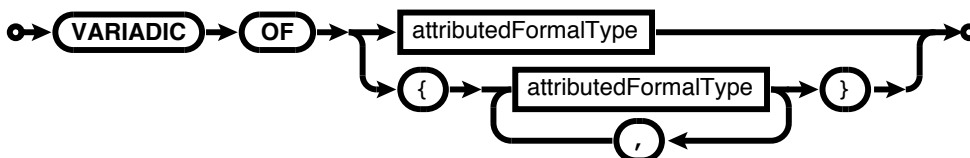
#26 Attributed Formal Type



#27 Simple Formal Type

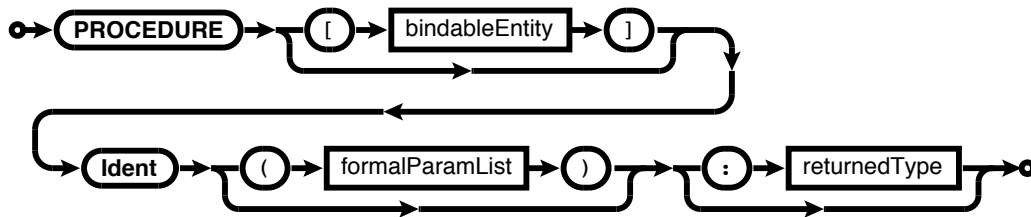
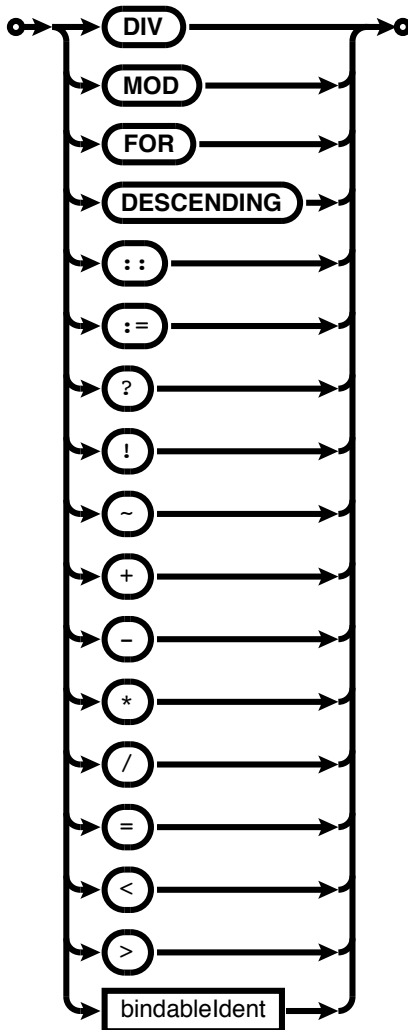
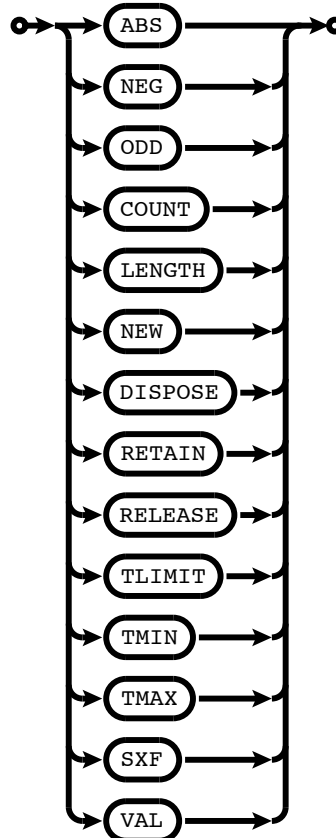
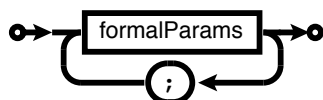
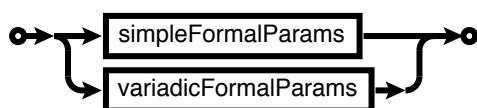


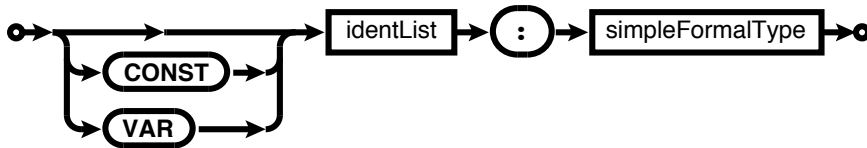
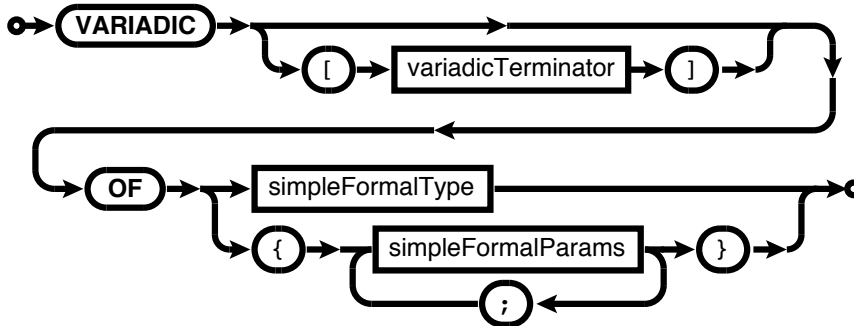
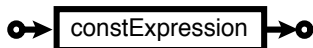
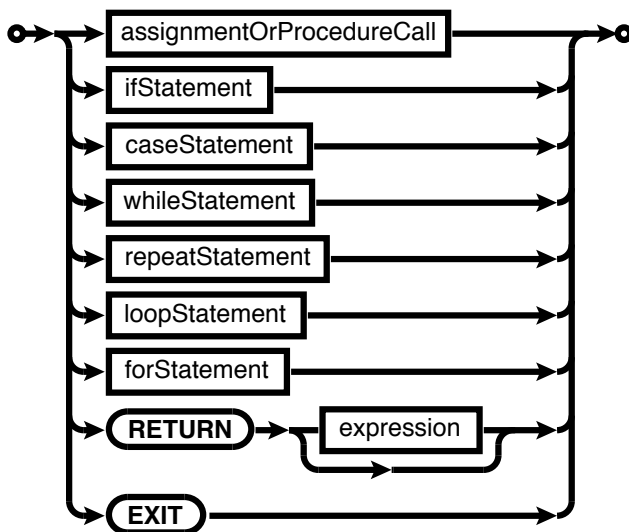
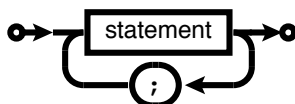
#28 Variadic Formal Type

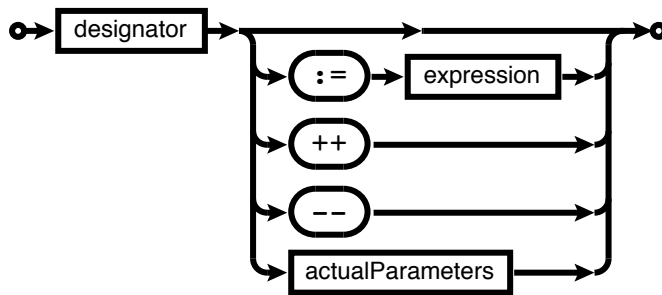
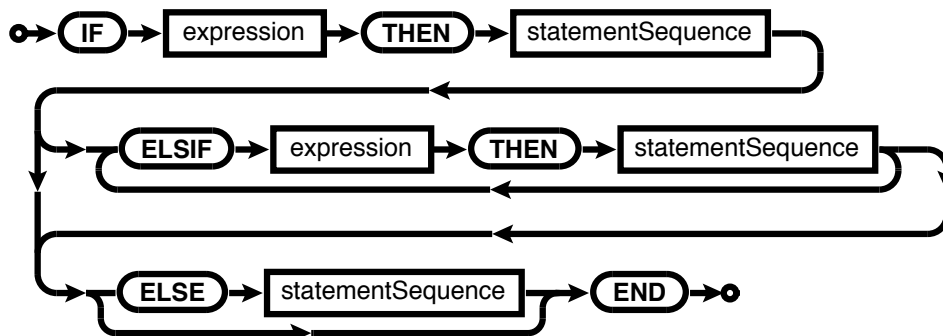
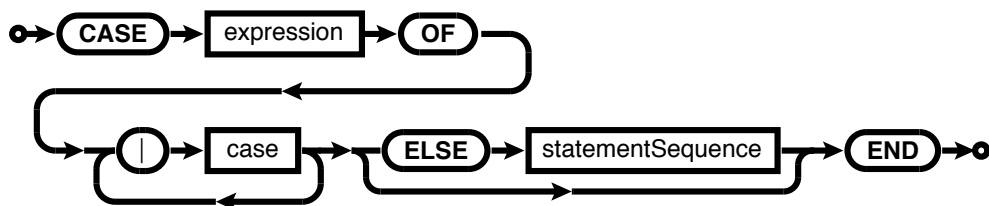
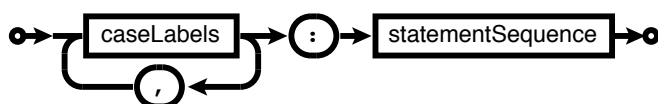
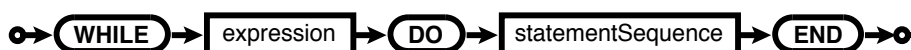
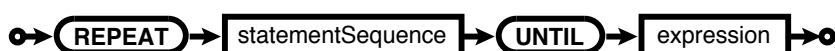
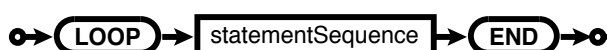


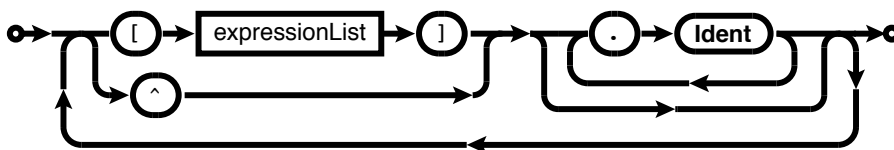
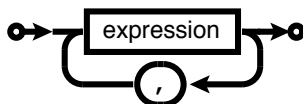
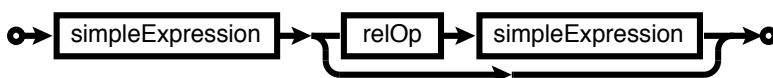
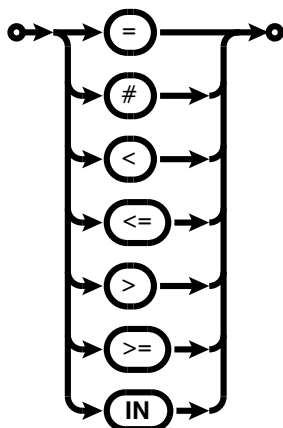
#29 Variable Declaration

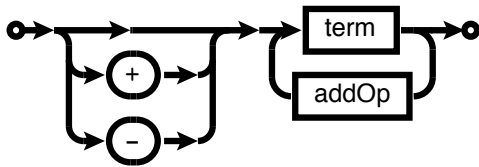
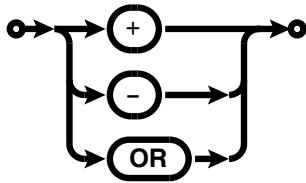
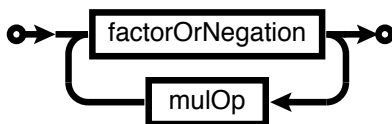
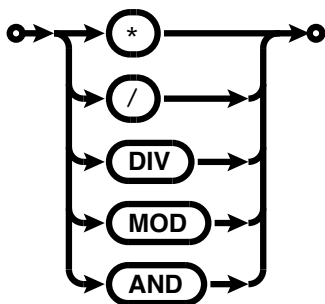
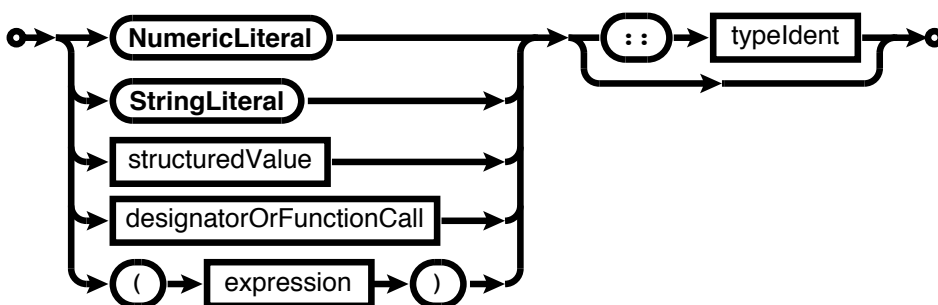


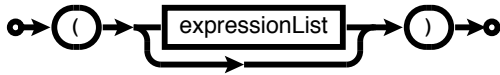
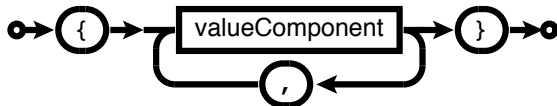
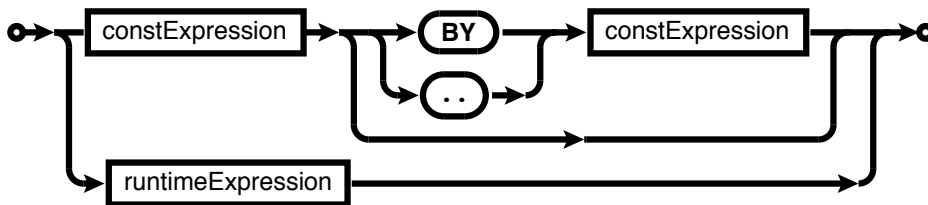
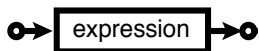
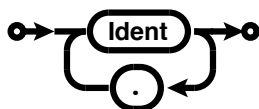
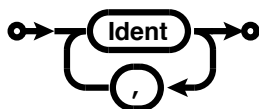
#30 Procedure Header**#31 Bindable Entity****#31.1 Bindable Identifier****#32 Formal Parameter List****#33 Formal Parameters**

#34 Simple Formal Parameters**#35 Variadic Formal Parameters****#35.1 Variadic Terminator****#36 Statement****#37 StatementSequence**

#38 Assignment Or Procedure Call**#39 IF Statement****#40 CASE Statement****#41 Case****#42 Case Labels****#43 WHILE Statement****#44 REPEAT Statement****#45 LOOP Statement**

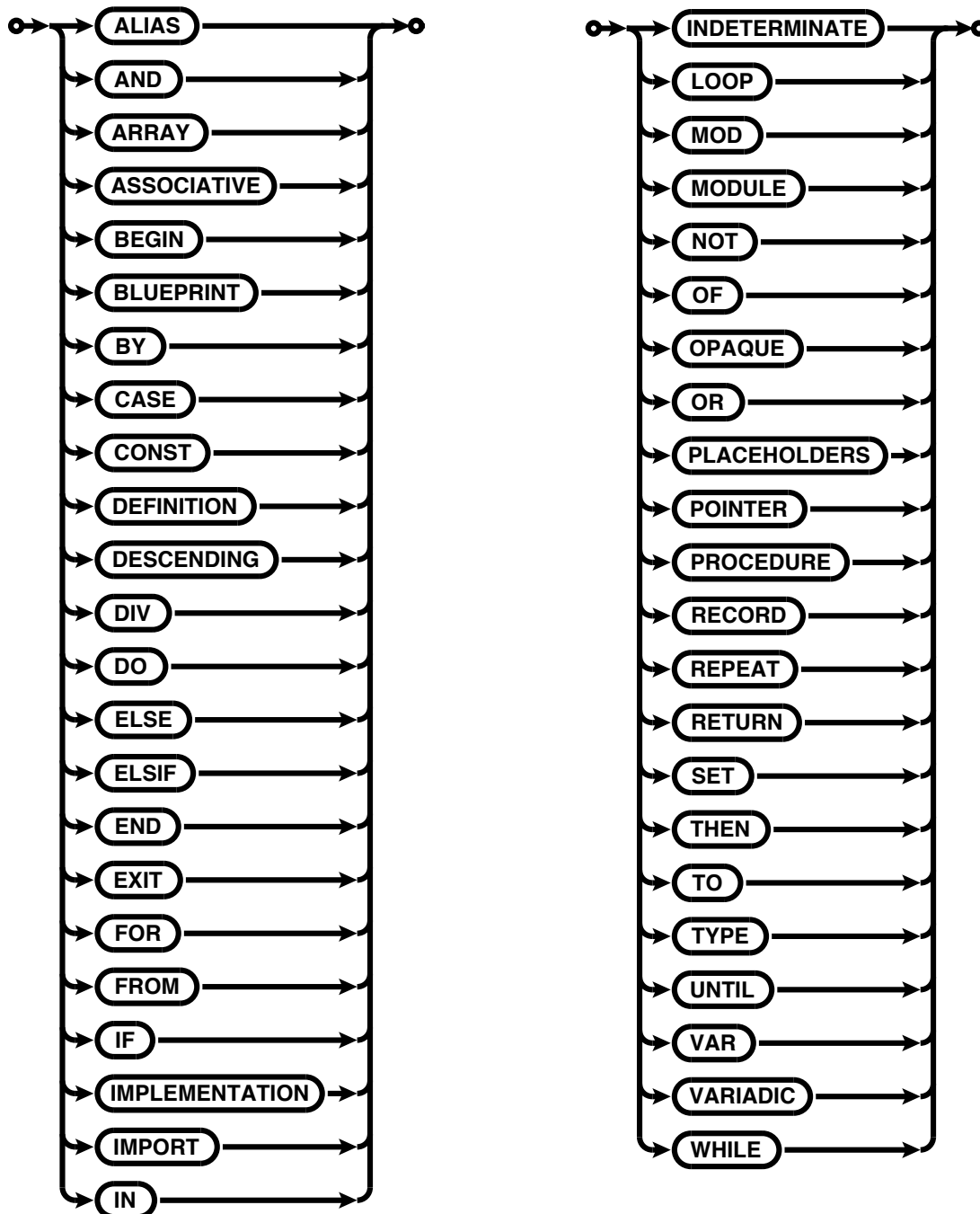
#46 FOR Statement**#46.1 Control Variable****#47 Designator****#48 Designator Tail****#49 Expression List****#50 Expression****#50.1 Relational Operator**

#51 Simple Expression**#51.1 Add Operator****#52 Term****#52.1 Multiply Operator****#53 Factor Or Negation****#54 Factor**

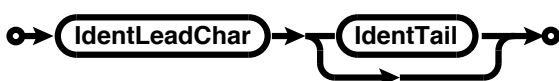
#55 Designator Or Function Call**#56 Actual Parameters****#57 Structured Value****#58 Value Component****#58.1 Runtime Expression****#59 Qualified Identifier****#60 Identifier List**

B.2 Terminal Symbols

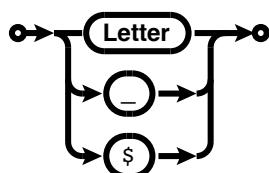
#1 Reserved Words



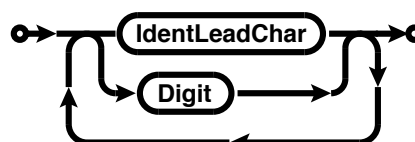
#2 Identifier

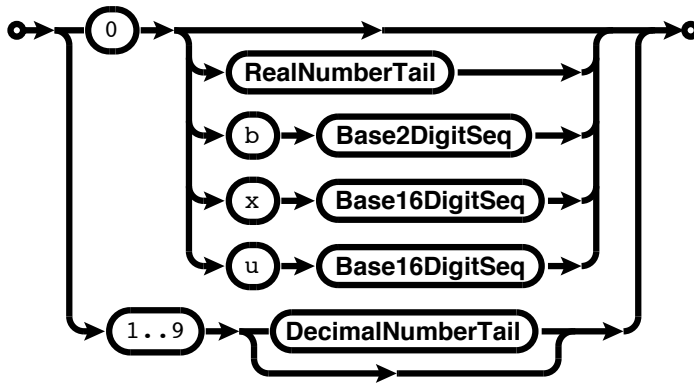
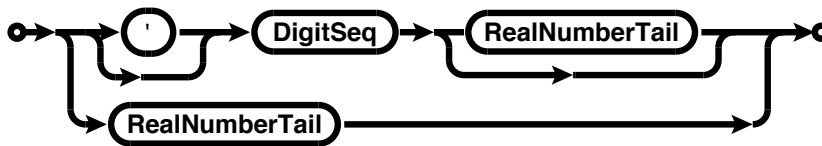
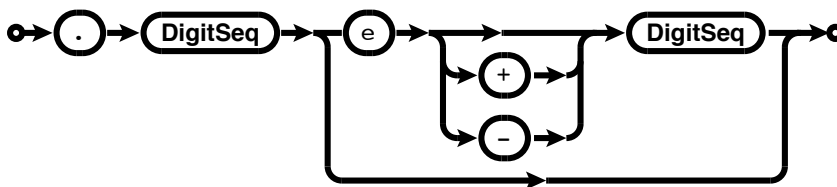
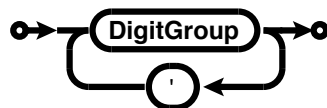
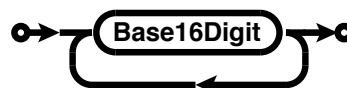


#2.1 Identifier Lead Character

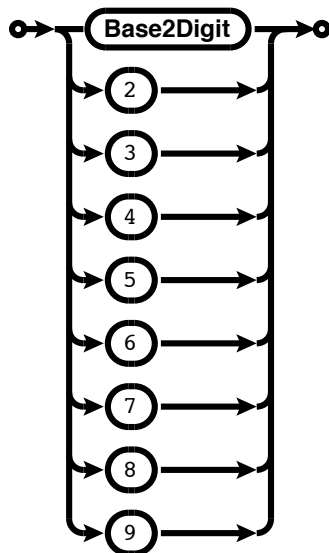


#2.2 Identifier Tail

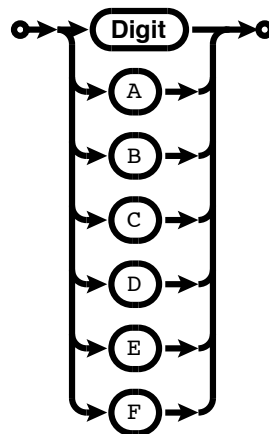


#3 Numeric Literal**#3.1 Decimal Number Tail****#3.2 Real Number Tail****#3.3 Digit Sequence****#3.3b Digit Group****#3.4 Base-2 Digit Sequence****#3.4b Base-2 Digit Group****#3.5 Base-16 Digit Sequence****#3.5b Base-16 Digit Group**

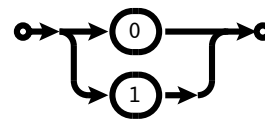
#3.6 Digit



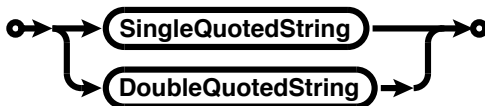
#3.7 Base-16 Digit



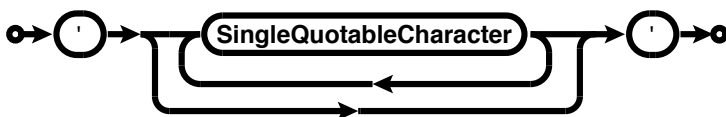
#3.8 Base-2 Digit



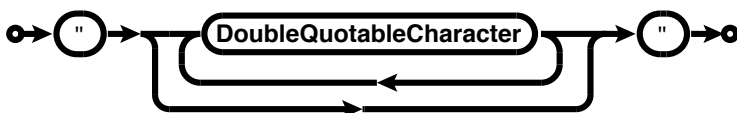
#4 String Literal



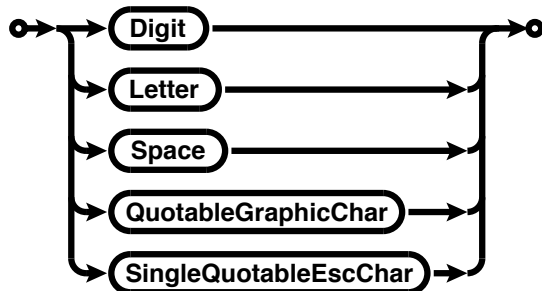
#4.1 Single Quoted String



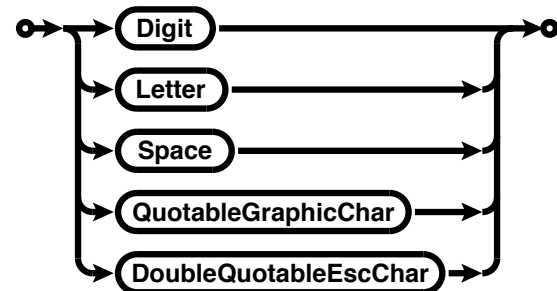
#4.2 Double Quoted String



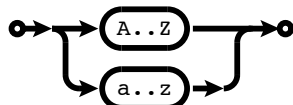
#4.3 Single Quotable Character



#4.4 Double Quotable Character

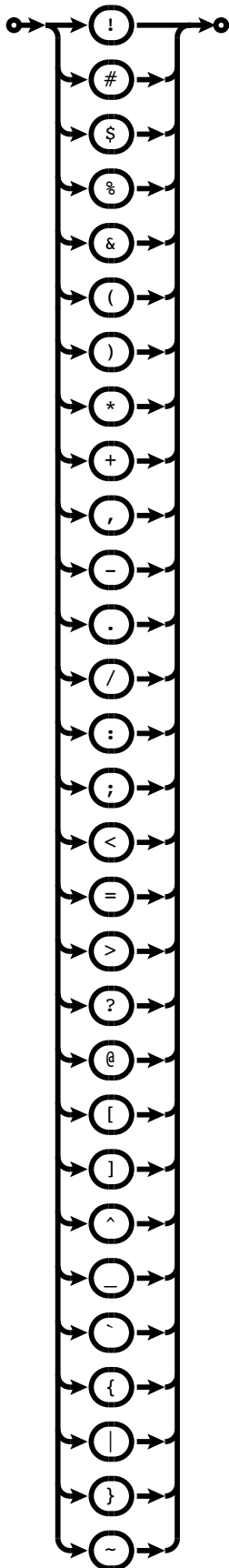
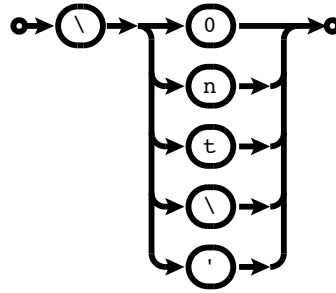
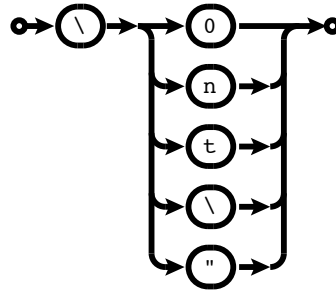


#4.5 Letter



#4.6 Space

CONST Space = CHR(32)

#4.7 Quotable Graphic Character**#4.8 Single Quotable Escaped Character****#4.9 Double Quotable Escaped Character**

B.3 Ignore Symbols

#1 Whitespace



#1.1 ASCII Tabulator

```
CONST ASCII_TAB = CHR(8)
```

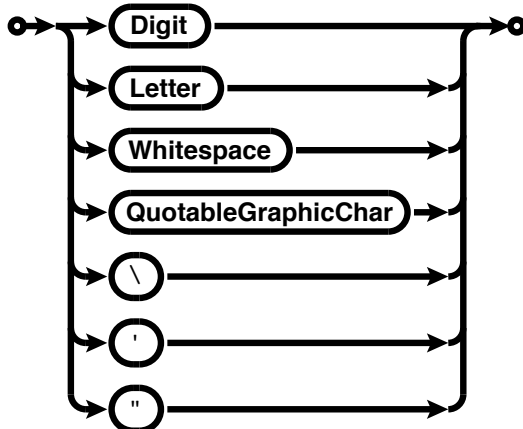
#2 Single-line Comment



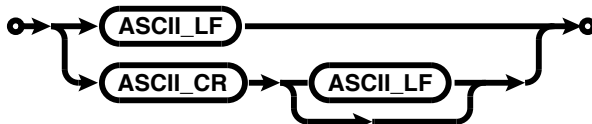
#3 Multi-line Comment



#3.1 Comment Character



#4 End Of Line Marker



#4.1 ASCII Line Feed

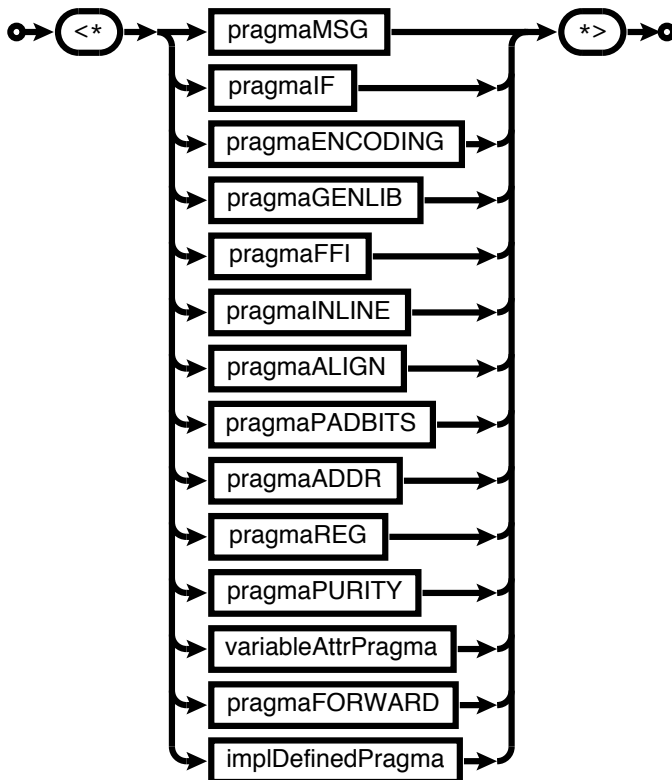
```
CONST ASCII_LF = CHR(10)
```

#4.2 ASCII Carriage Return

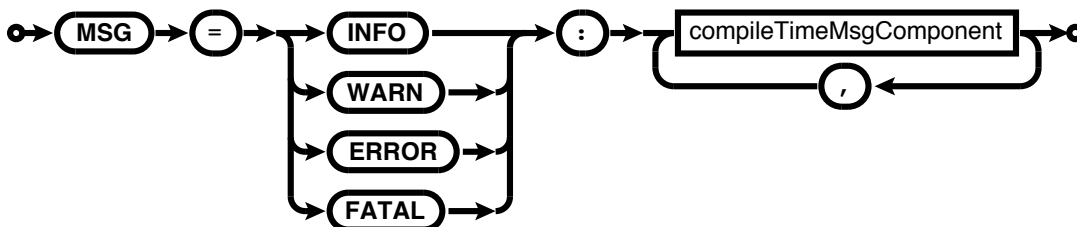
```
CONST ASCII_CR = CHR(13)
```


B.4 Pragma Grammar

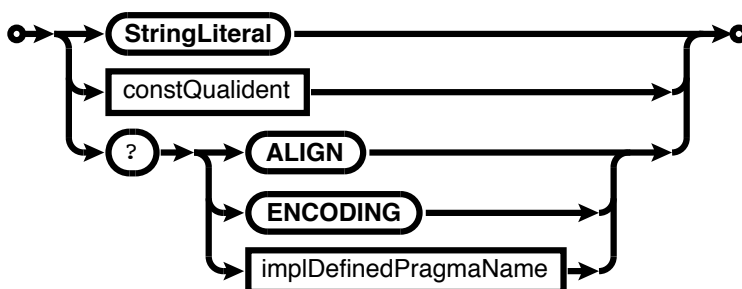
#1 Pragma



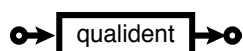
#2 Body Of Compile Time Message Pragma



#3 Compile Time Message Component

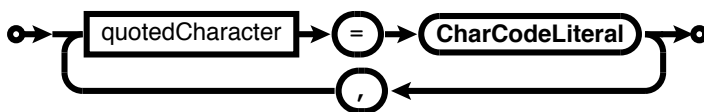
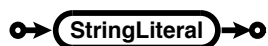
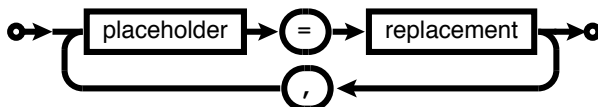
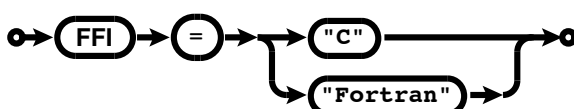
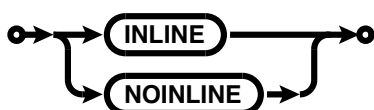
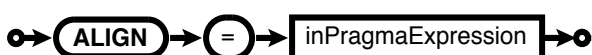


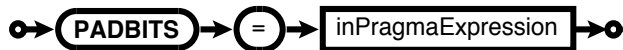
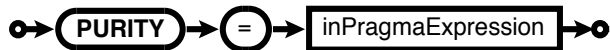
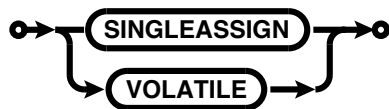
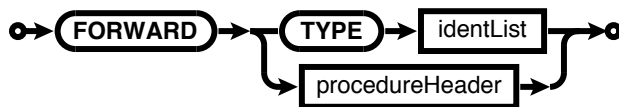
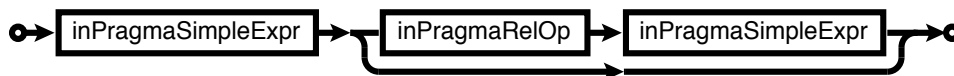
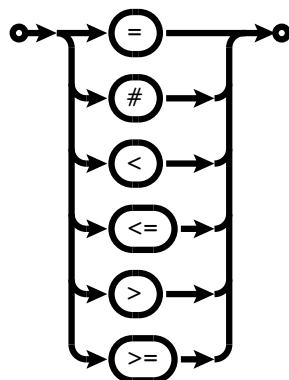
#3.1 Constant Qualified Identifier

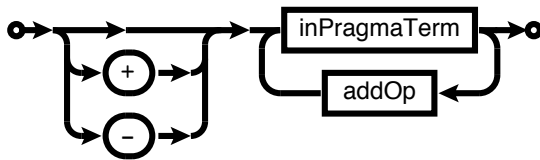
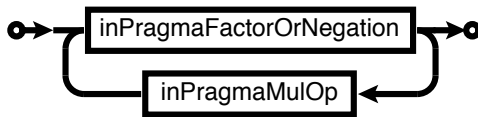
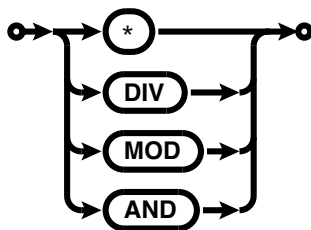
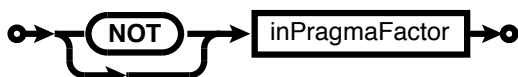
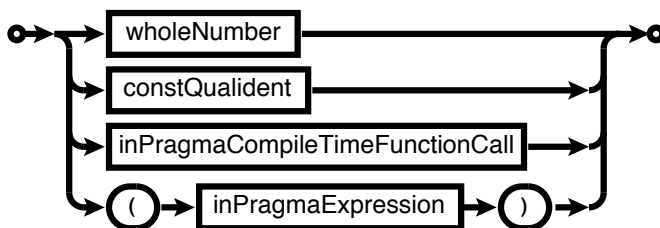


#3.2 Implementation Defined Pragma Name



#4 Body Of Conditional Compilation Pragma**#5 Body Of Character Encoding Pragma****#6 Code Point Sample List****#6.1 Quoted Character****#6.2 Character Code Literal****#7 Body Of Library Template Expansion Pragma****#8 Template Parameter List****#8.1 Placeholder****#8.2 Replacement****#9 Body Of Foreign Function Interface Pragma****#10 Body Of Procedure Inlining Pragma****#11 Body Of Memory Alignment Pragma**

#12 Body Of Bit Padding Pragma**#13 Body Of Memory Mapping Pragma****#14 Body Of Register Mapping Pragma****#15 Body Of Purity Attribute Pragma****#16 Body Of Variable Attribute Pragma****#17 Body Of Forward Declaration Pragma****#18 Body Of Implementation Defined Pragma****#19 In-Pragma Expression****#19.1 In-Pragma Relational Operator**

#20 In-Pragma Simple Expression**#21 In-Pragma Term****#21.1 In-Pragma Multiply Operator****#22 In-Pragma Factor Or Negation****#23 In-Pragma Factor****#23.1 Whole Number****#24 In-Pragma Compile-Time Function Call**