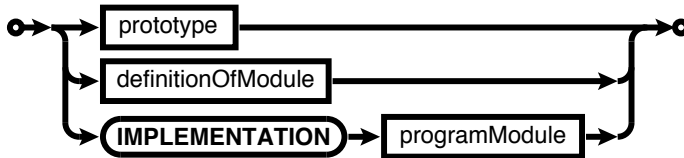


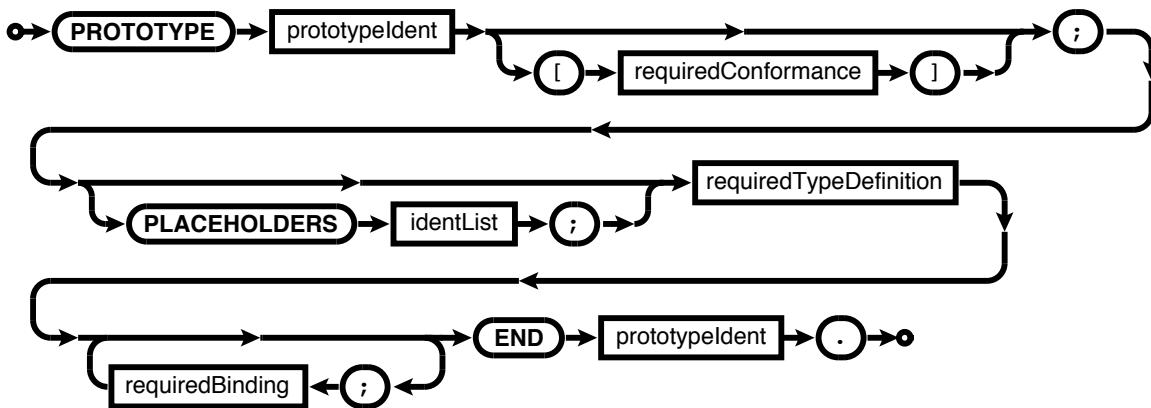
## Appendix B: Syntax Diagrams

### B.1 Non-Terminal Symbols

#### #1 Compilation Unit



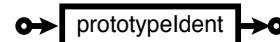
#### #2 Prototype Definition



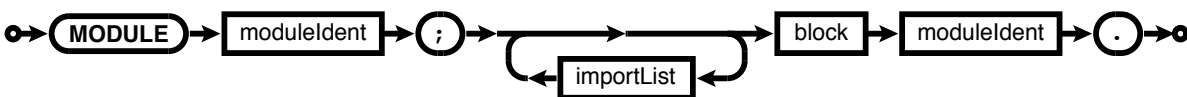
##### #2.1 Prototype Identifier



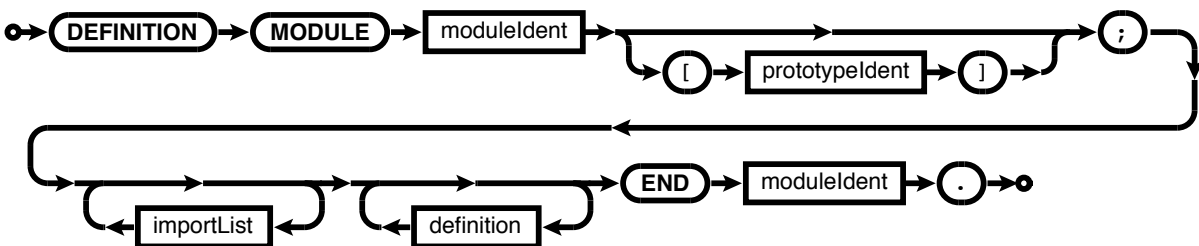
##### #2.2 Required Conformance



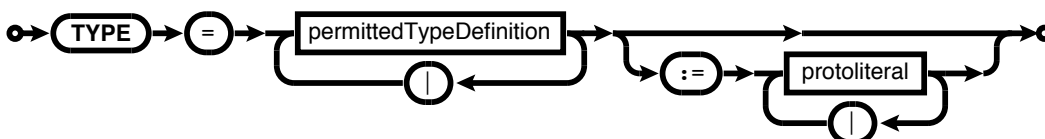
#### #3 Program Module

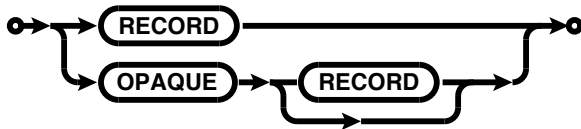
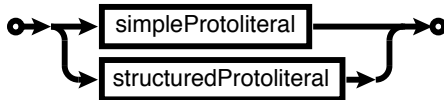
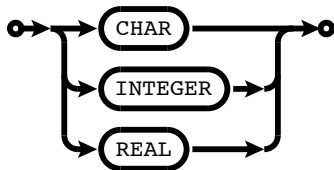
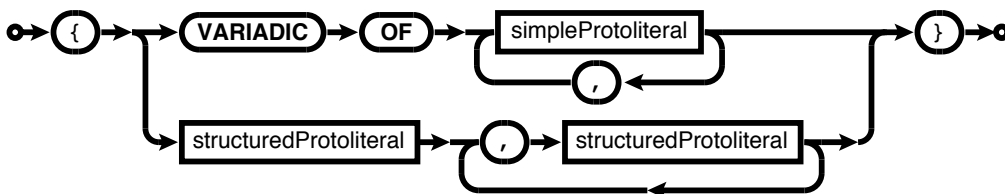
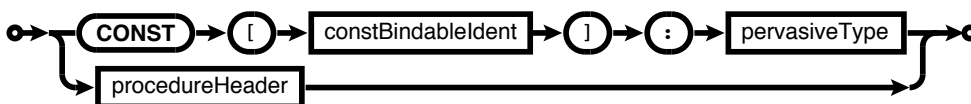
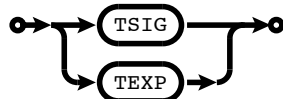
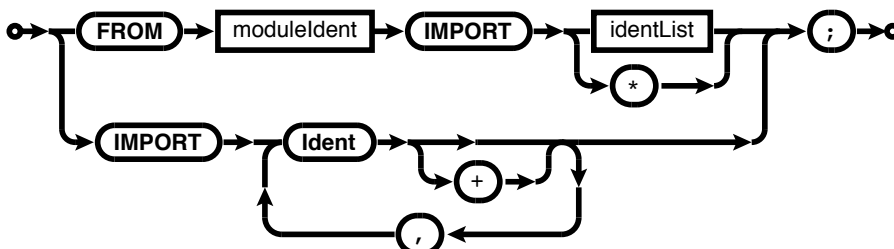
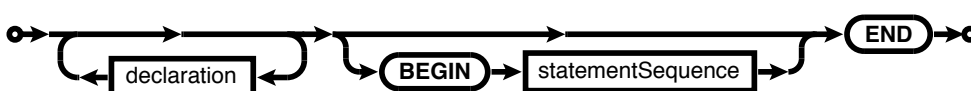


#### #4 Definition Of Module

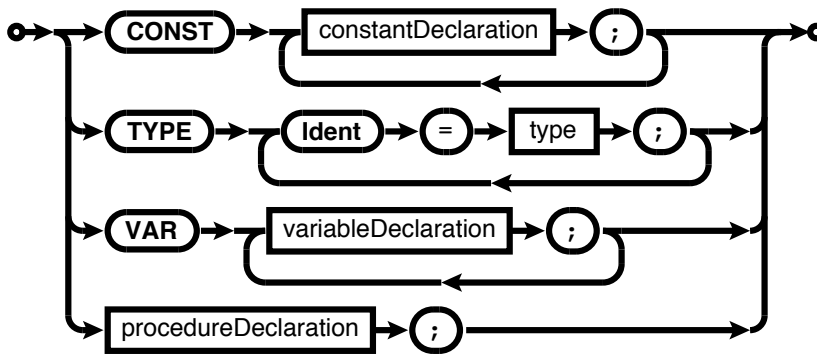


#### #5 Required Type Definition

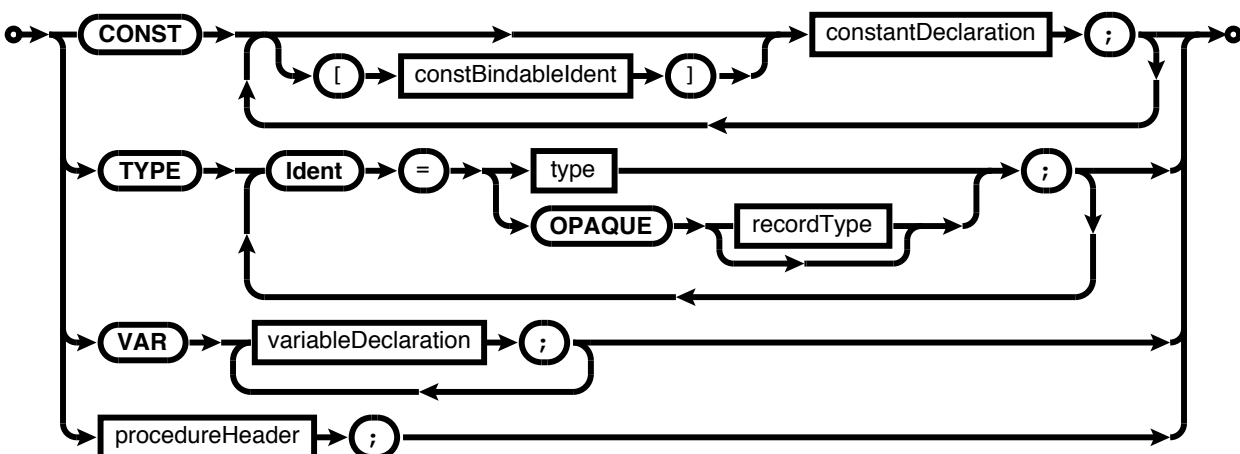


**#6 Permitted Type Definition****#7 Proto-Literal****#7.1 Simple Proto-Literal****#8 Structured Proto-Literal****#9 Required Binding****#9.1 CONST Bindable Identifier****#9.2 Pervasive Type****#10 Import List****#11 Block**

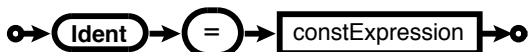
## #12 Declaration



## #13 Definition



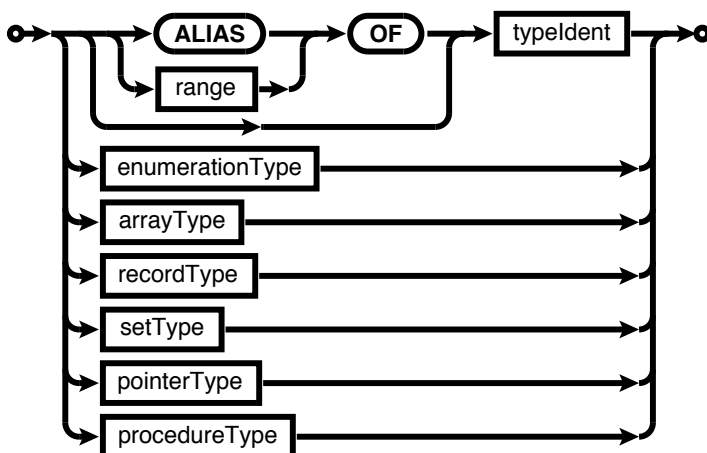
## #14 Constant Declaration



## #14.1 Constant Expression



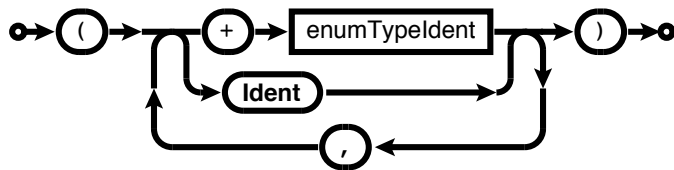
## #15 Type



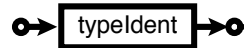
## #16 Range



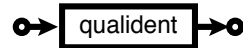
## #17 Enumeration Type



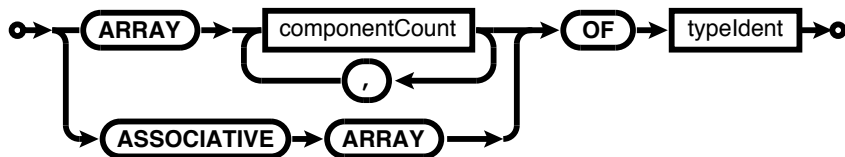
## #17.1 Enumeration Type Identifier



## #17.2 Type Identifier



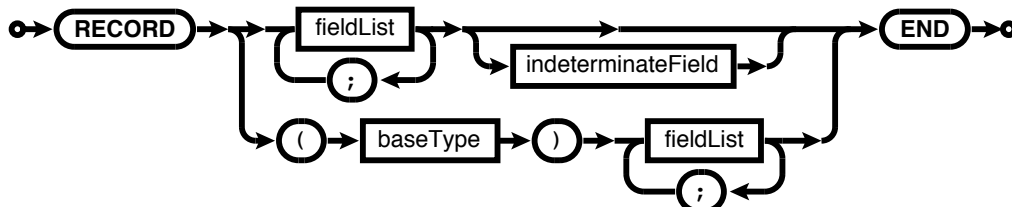
## #18 Array Type



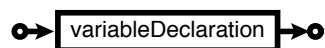
## #18.1 Component Count



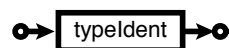
## #19 Record Type



## #19.1 Field List



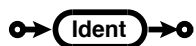
## #19.2 Base Type



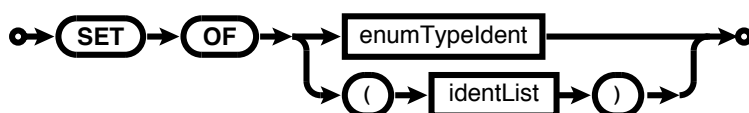
## #20 Indeterminate Field



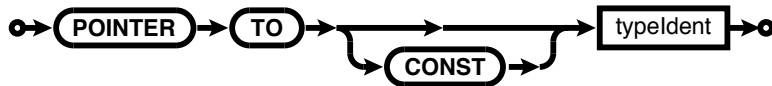
## #20.1 Discriminant Field



## #21 Set Type



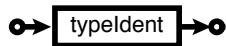
## #22 Pointer Type



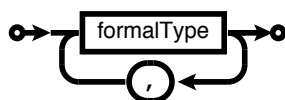
## #23 Procedure Type



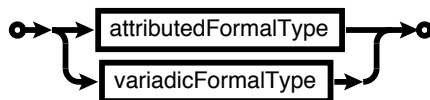
## #23.1 Returned Type



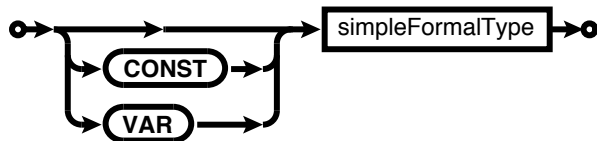
## #24 Formal Type List



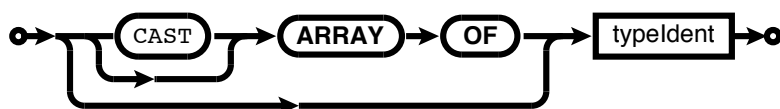
## #25 Formal Type



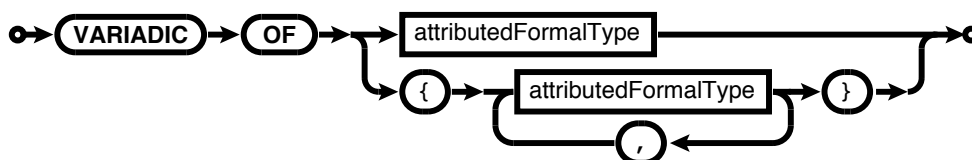
## #26 Attributed Formal Type



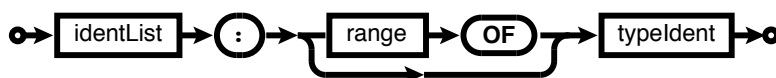
## #27 Simple Formal Type



## #28 Variadic Formal Type

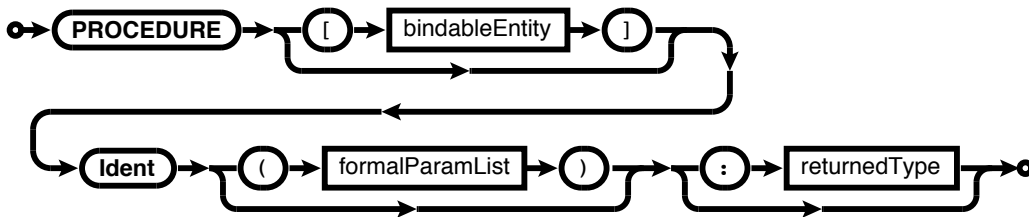
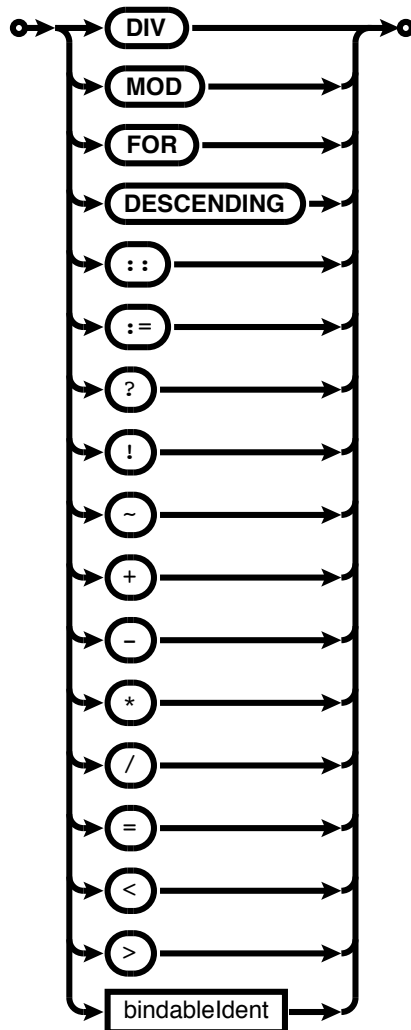
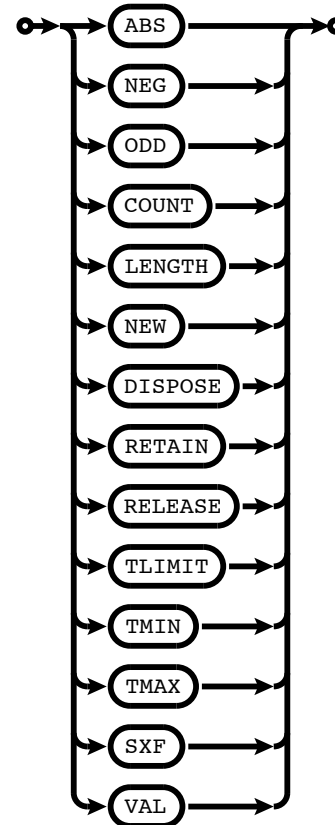
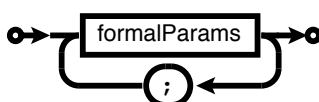
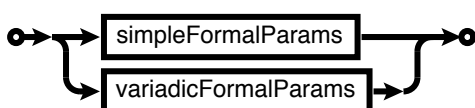


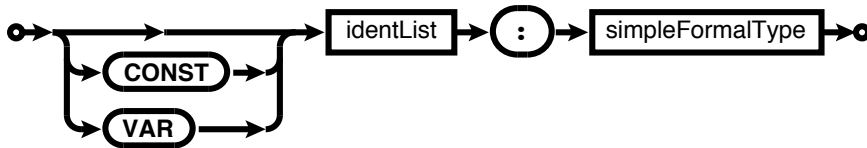
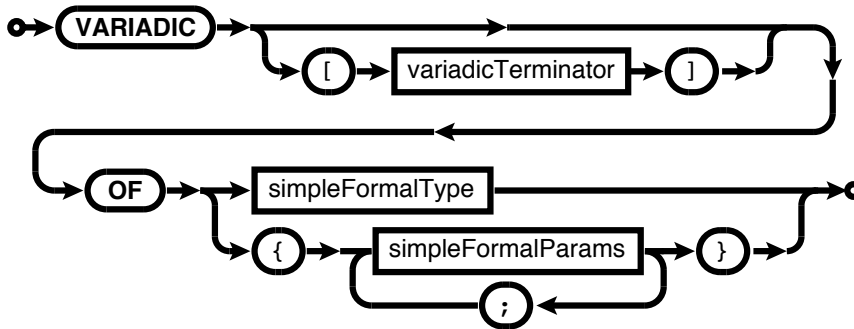
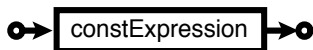
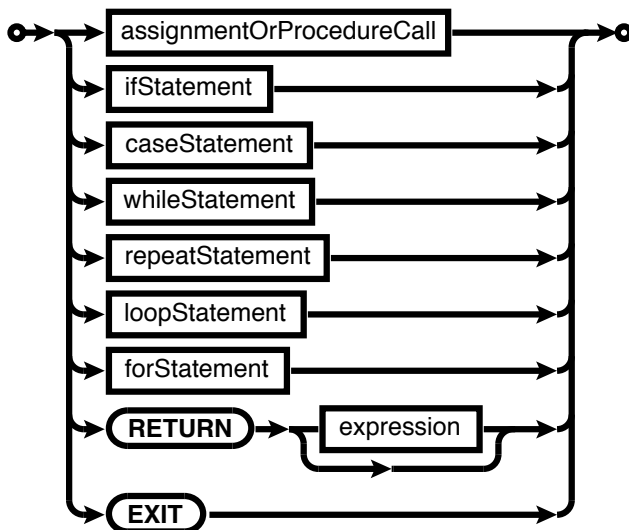
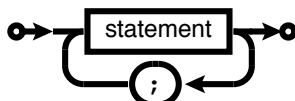
## #29 Variable Declaration

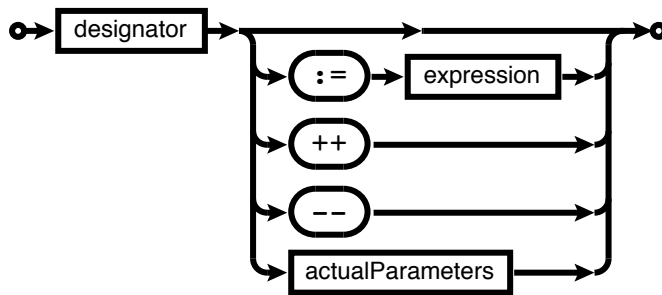
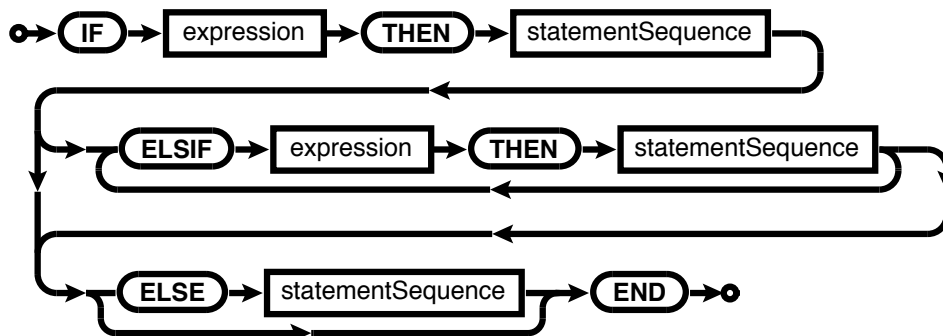
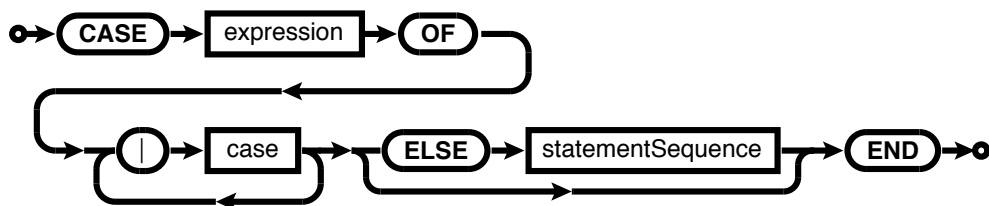
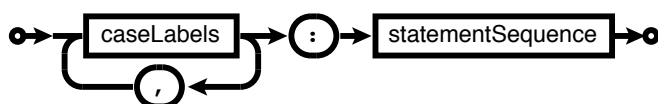
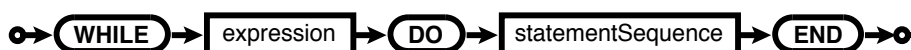
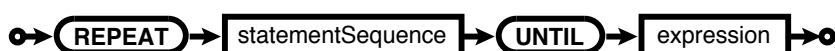


## #30 Procedure Declaration

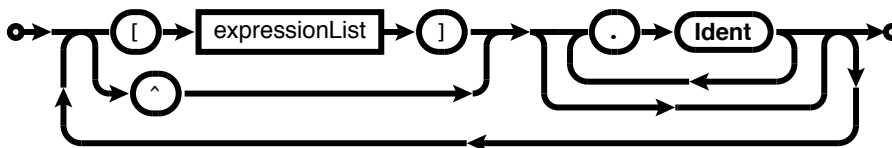
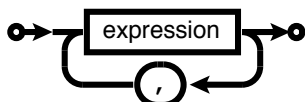
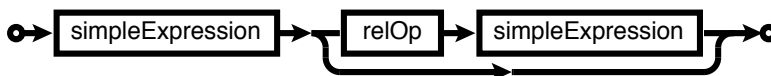
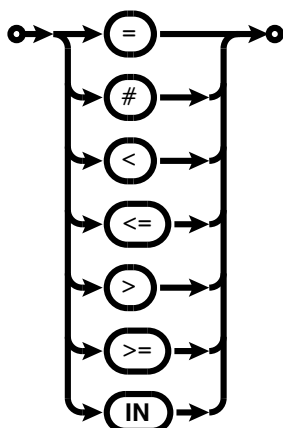


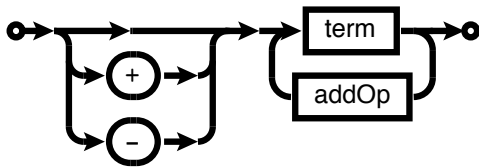
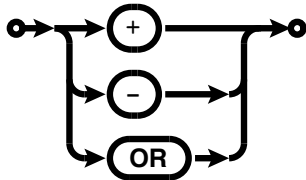
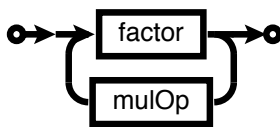
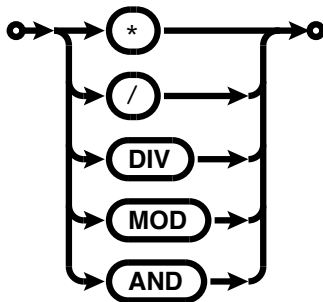
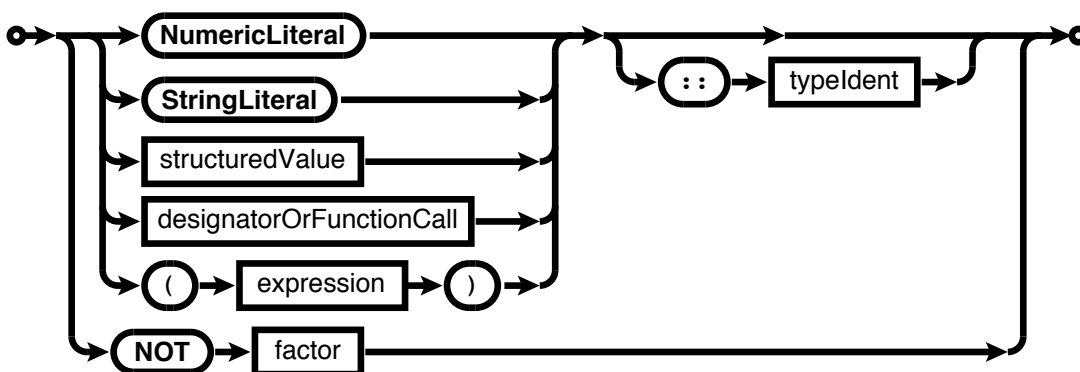
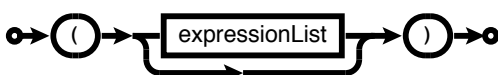
**#31 Procedure Header****#32 Bindable Entity****#32.1 Bindable Identifier****#33 Formal Parameter List****#34 Formal Parameters**

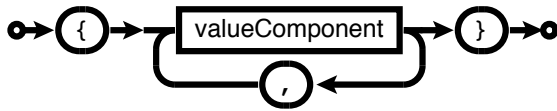
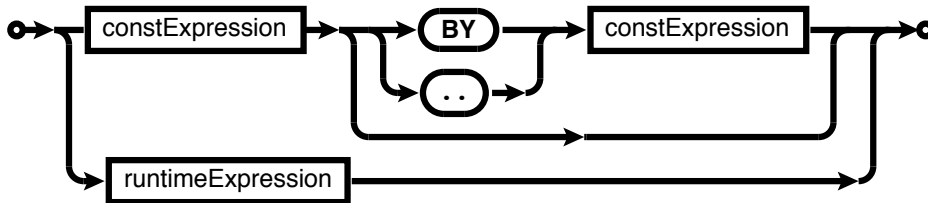
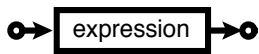
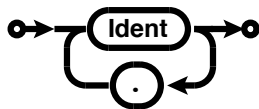
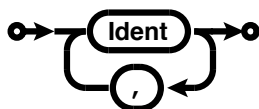
**#35 Simple Formal Parameters****#36 Variadic Formal Parameters****#36.1 Variadic Terminator****#37 Statement****#38 StatementSequence**

**#39 Assignment Or Procedure Call****#40 IF Statement****#41 CASE Statement****#42 Case****#43 Case Labels****#44 WHILE Statement****#45 REPEAT Statement****#46 LOOP Statement**



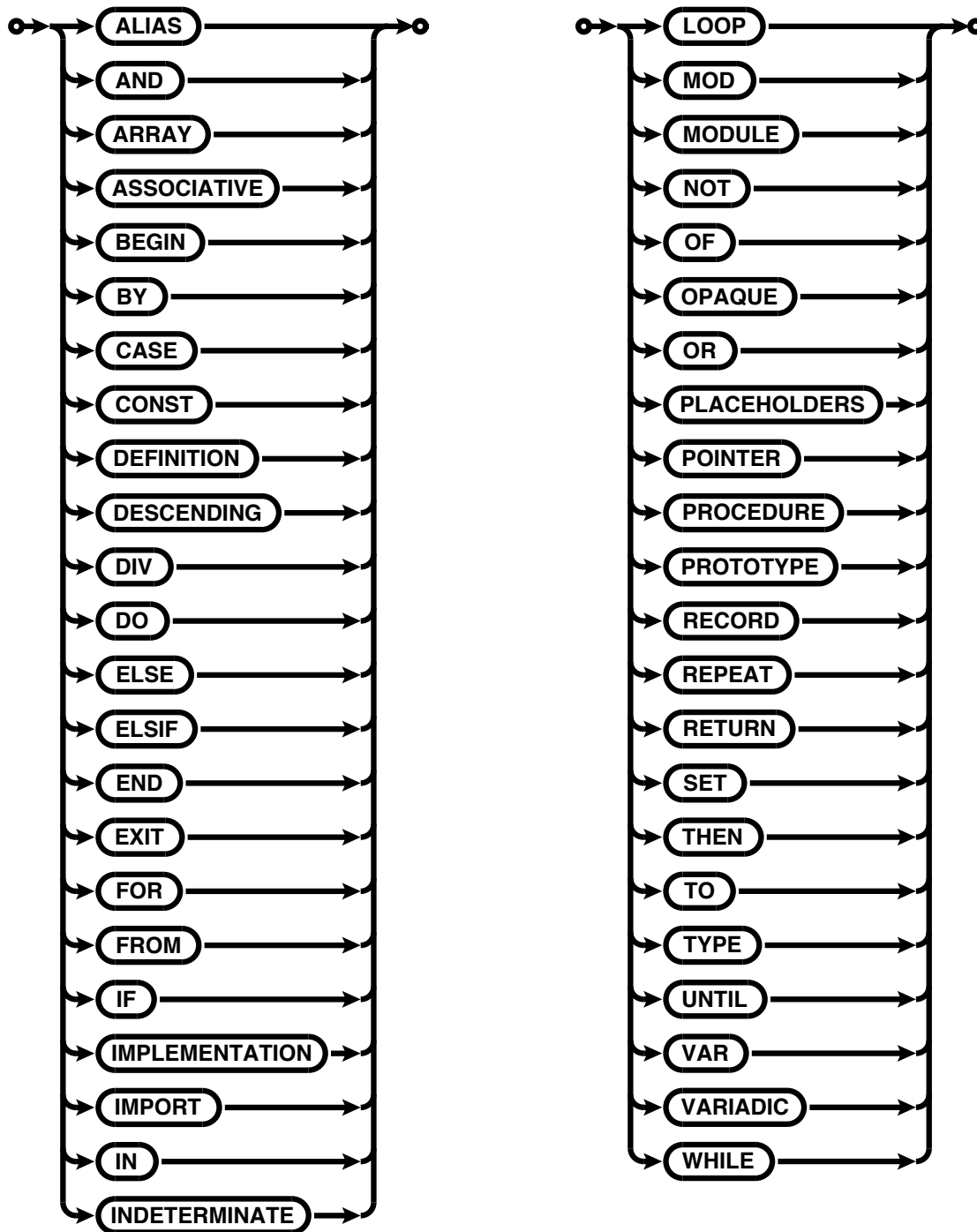
**#47 FOR Statement****#47.1 Control Variable****#48 Designator****#49 Designator Tail****#50 Expression List****#51 Expression****#51.1 Relational Operator**

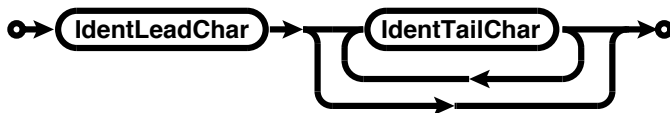
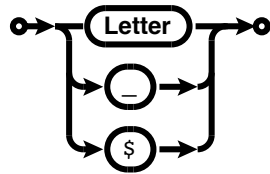
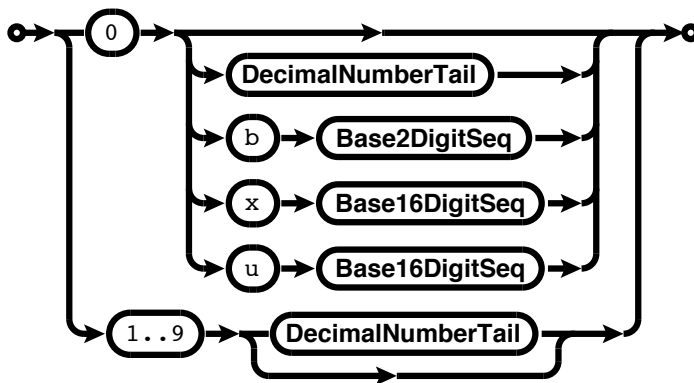
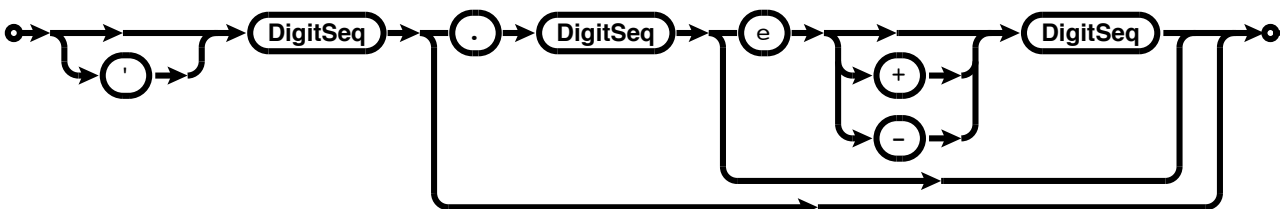
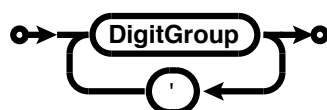
**#52 Simple Expression****#52.1 Add Operator****#53 Term****#53.1 Multiply Operator****#54 Factor****#55 Designator Or Function Call****#56 Actual Parameters**

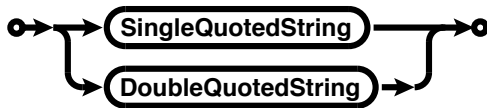
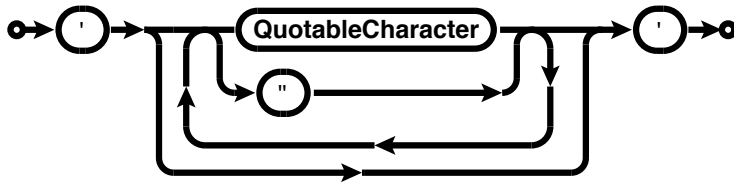
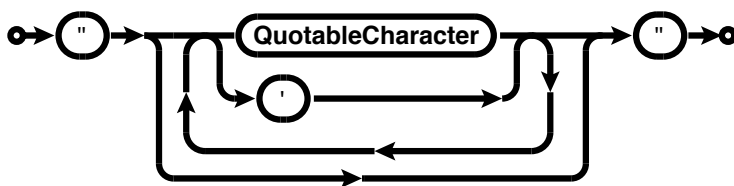
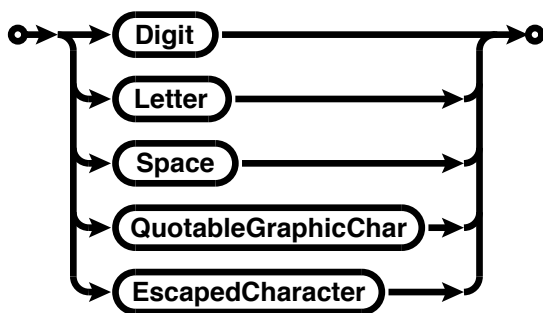
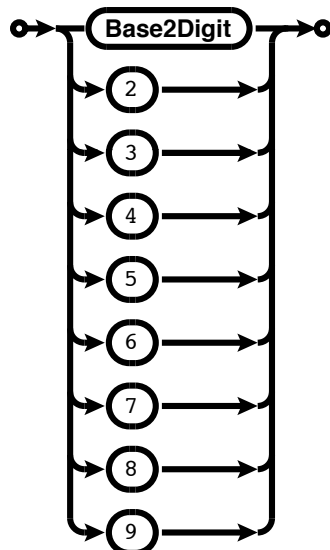
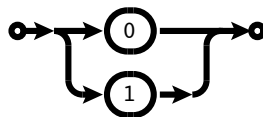
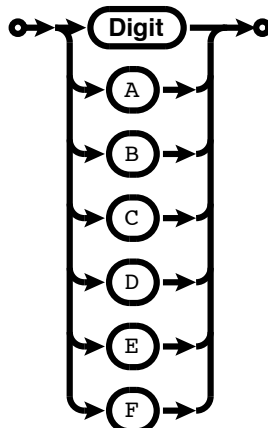
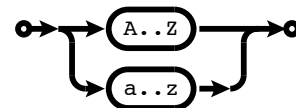
**#57 Structured Value****#58 Value Component****#58.1 Runtime Expression****#59 Qualified Identifier****#60 Identifier List**

## B.2 Terminal Symbols

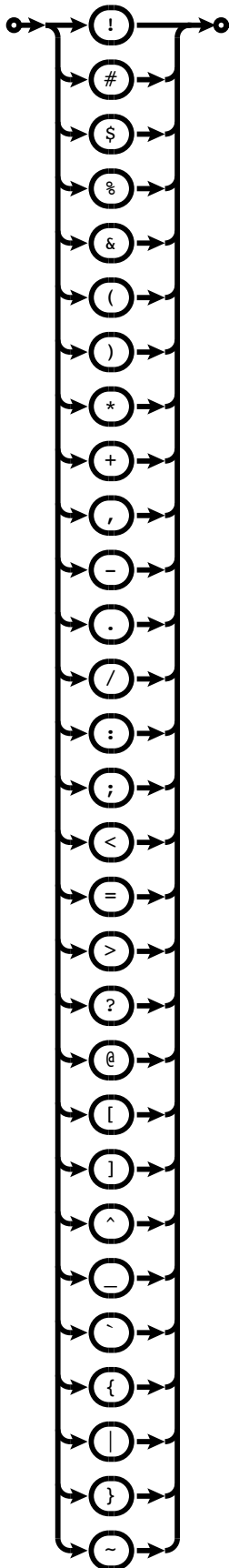
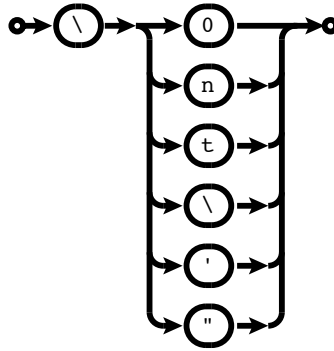
### #1 Reserved Words



**#2 Identifier****#2.1 Identifier Leading Character****#2.2 Identifier Tail Character****#3 Numeric Literal****#3.1 Decimal Number Tail****#3.2 Digit Sequence****#3.2b Digit Group****#3.3 Base-2 Digit Sequence****#3.3b Base-2 Digit Group****#3.4 Base-16 Digit Sequence****#3.4b Base-16 Digit Group**

**#4 String Literal****#4.1 Single Quoted String****#4.2 Double Quoted String****#4.3 Quotable Character****#4.4 Digit****#4.5 Base-2 Digit****#4.6 Base-16 Digit****#4.7 Letter****#4.8 Space**

CONST Space = CHR(20)

**#4.9 Quotable Graphic Character****#4.10 Escaped Character**

## B.3 Ignore Symbols

### #1 Whitespace



#### #1.1 ASCII Tabulator

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

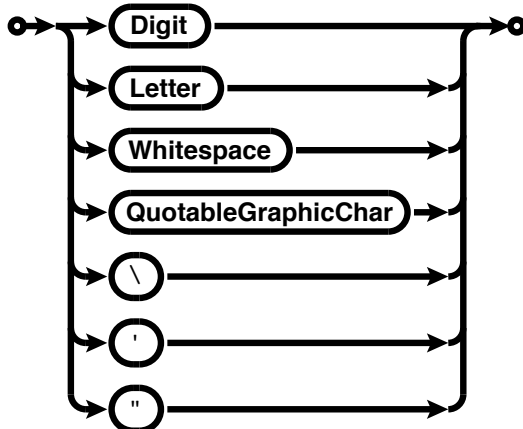
### #2 Single-line Comment



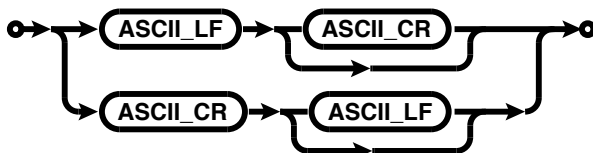
### #3 Multi-line Comment



#### #3.1 Comment Character



### #4 End Of Line Marker



#### #4.1 ASCII Line Feed

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

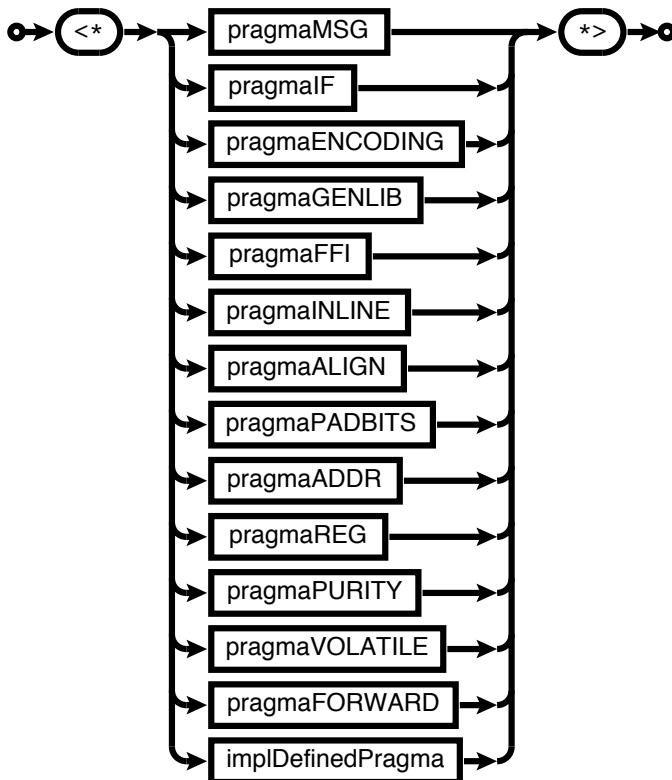
#### #4.2 ASCII Carriage Return

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

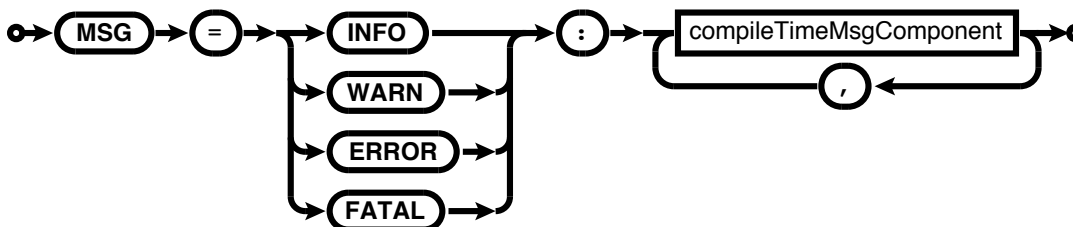


## B.4 Pragma Grammar

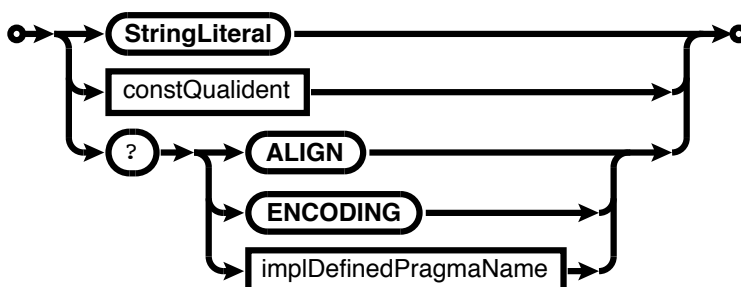
### #1 Pragma



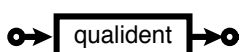
### #2 Body Of Compile Time Message Pragma



### #3 Compile Time Message Component

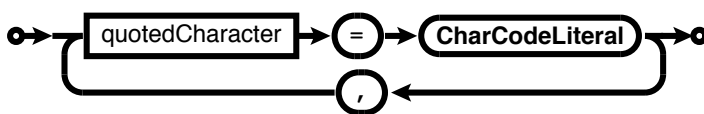
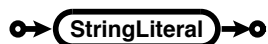
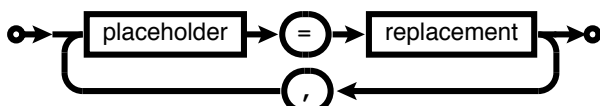
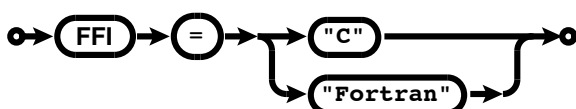


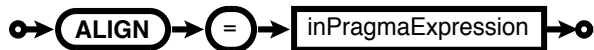
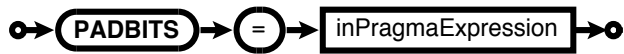
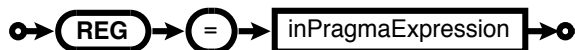
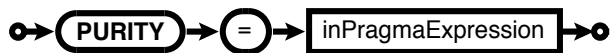
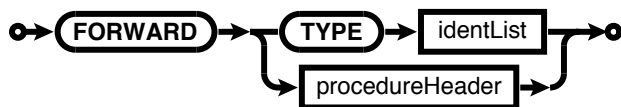
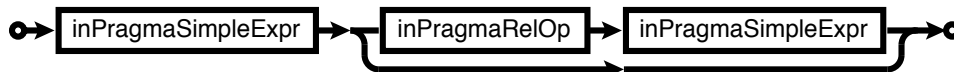
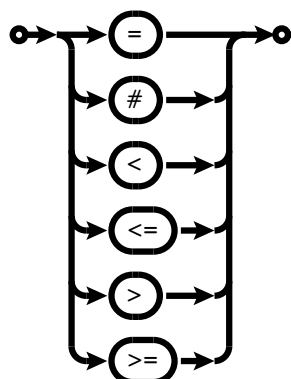
#### #3.1 Constant Qualified Identifier

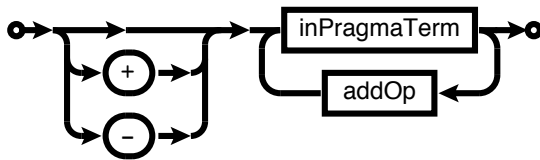
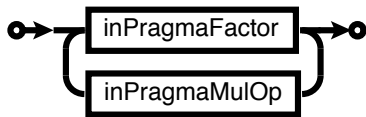
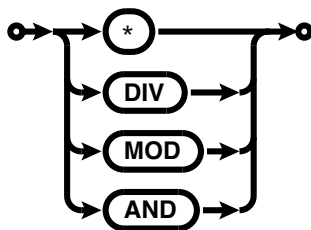
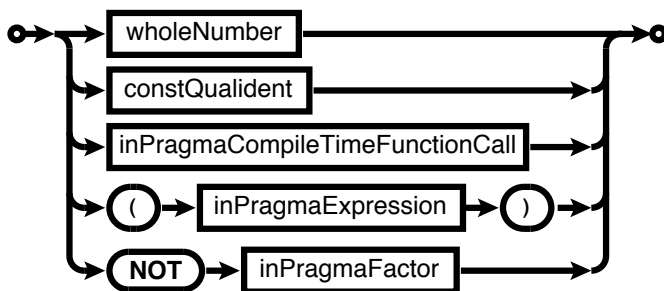


#### #3.2 Implementation Defined Pragma Name



**#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 Volatile 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****#22.1 Whole Number****#23 In-Pragma Compile-Time Function Call**