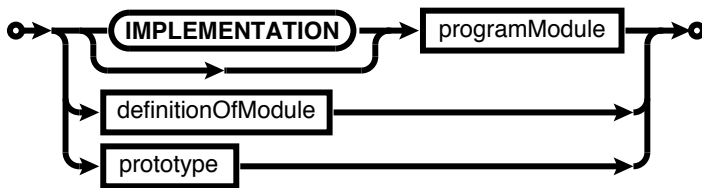


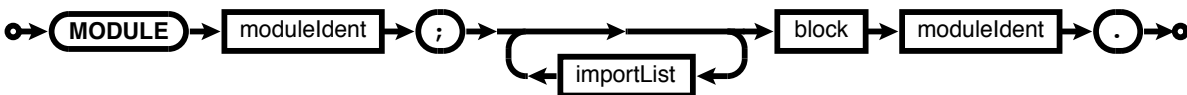
## Appendix B: Syntax Diagrams

### B.1 Non-Terminal Symbols

#### #1 Compilation Unit



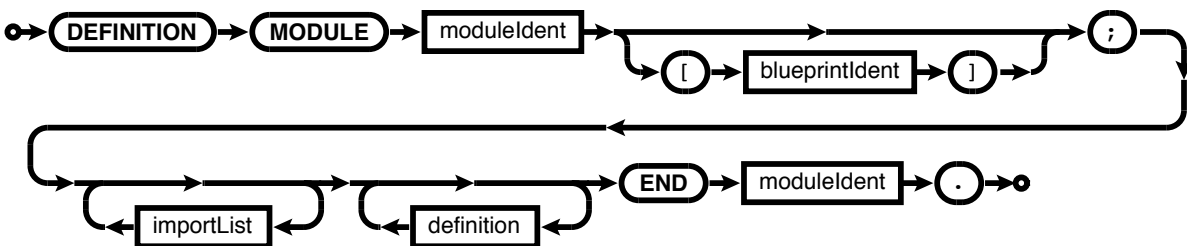
#### #2 Program Module



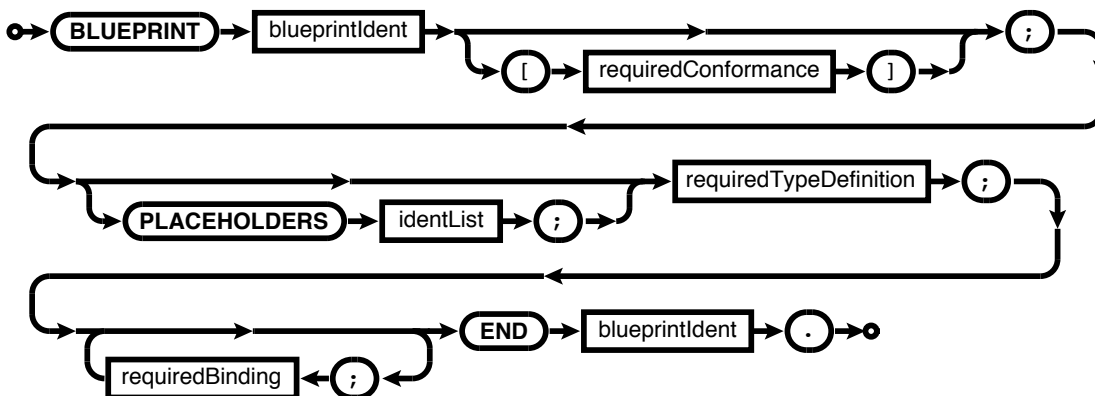
#### #2.1 Module Identifier



#### #3 Definition Of Module



#### #4 Blueprint



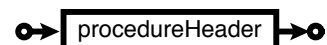
#### #4.1 Blueprint Identifier



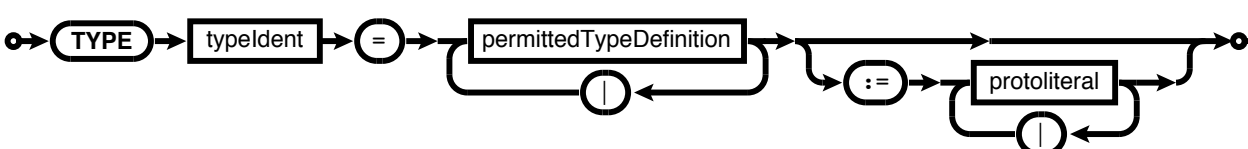
#### #4.2 Required Conformance

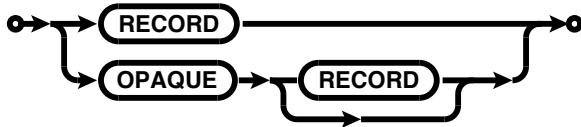
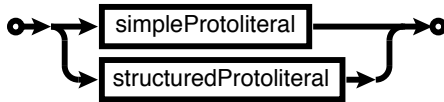
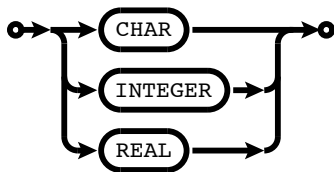
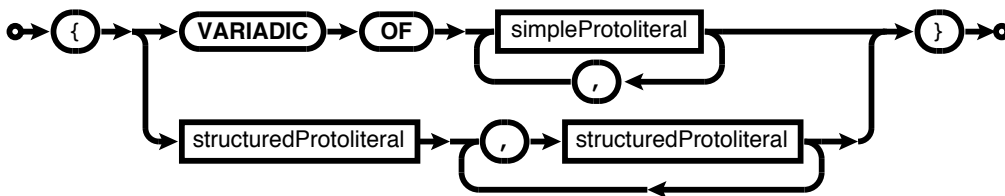
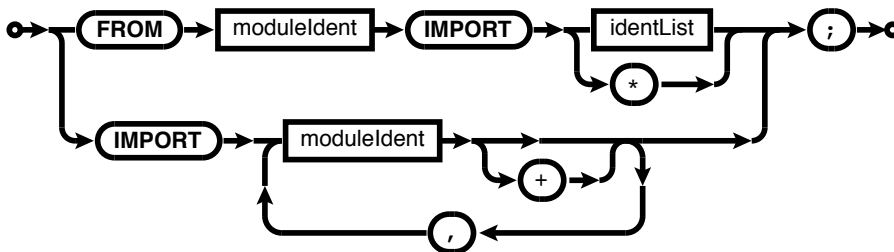
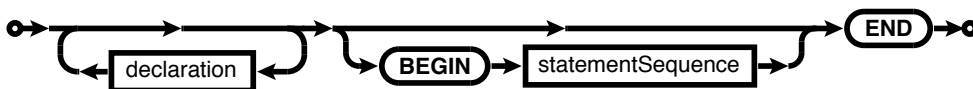
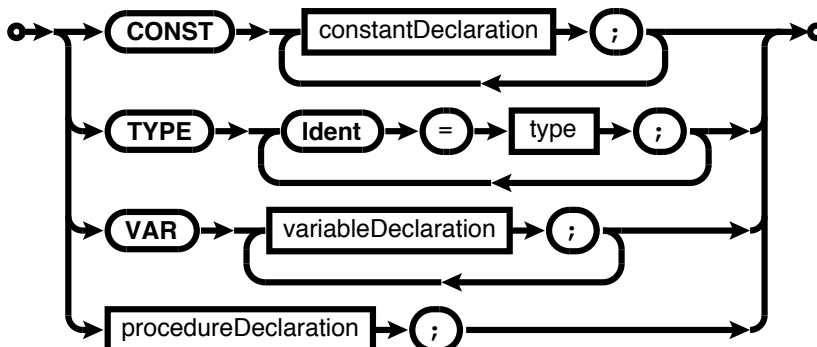


#### #4.3 Required Binding



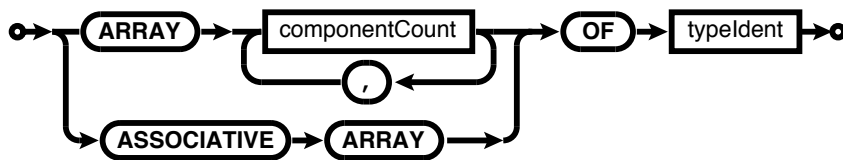
#### #5 Required Type Definition



**#6 Permitted Type Definition****#7 Proto-Literal****#7.1 Simple Proto-Literal****#8 Structured Proto-Literal****#9 Import List****#10 Block****#11 Declaration**



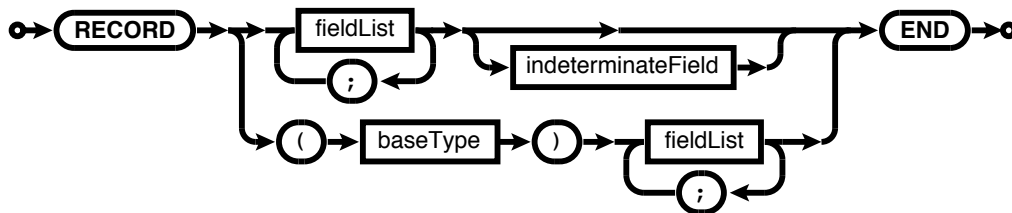
## #17 Array Type



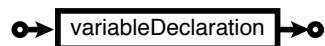
## #17.1 Component Count



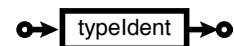
## #18 Record Type



## #18.1 Field List



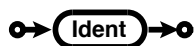
## #18.2 Base Type



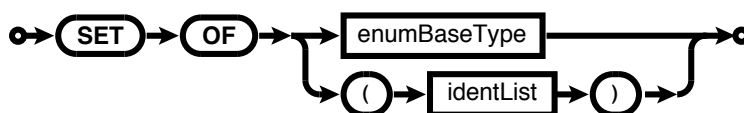
## #19 Indeterminate Field



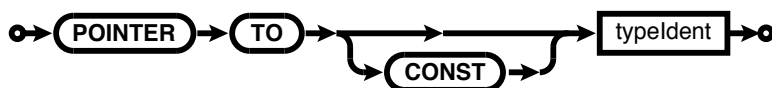
## #19.1 Discriminant Field



## #20 Set Type



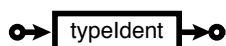
## #21 Pointer Type



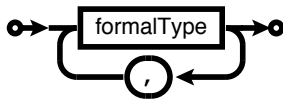
## #22 Procedure Type



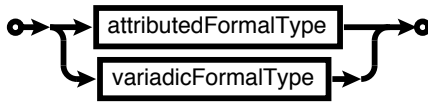
## #22.1 Returned Type



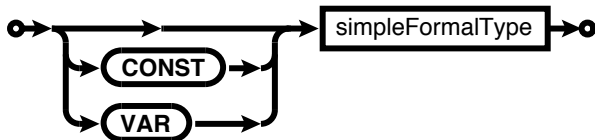
## #23 Formal Type List



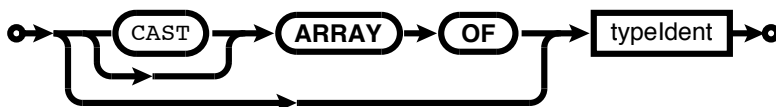
## #24 Formal Type



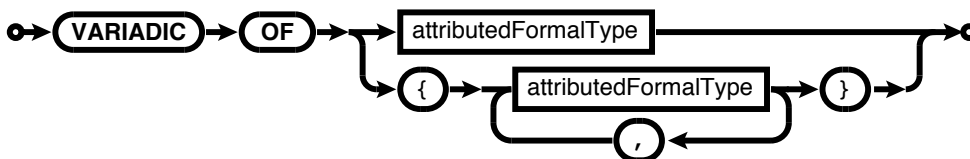
## #25 Attributed Formal Type



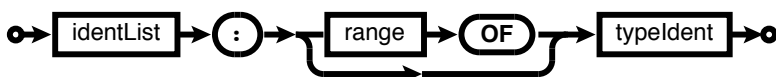
## #26 Simple Formal Type



## #27 Variadic Formal Type



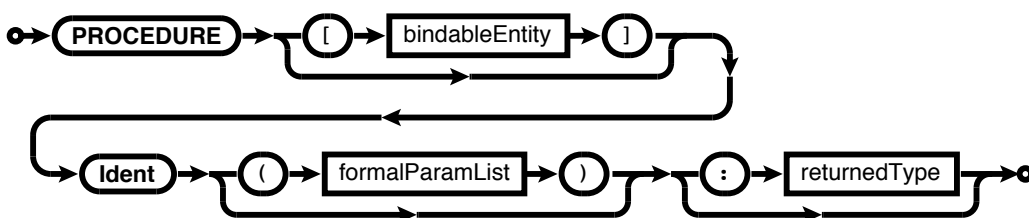
## #28 Variable Declaration



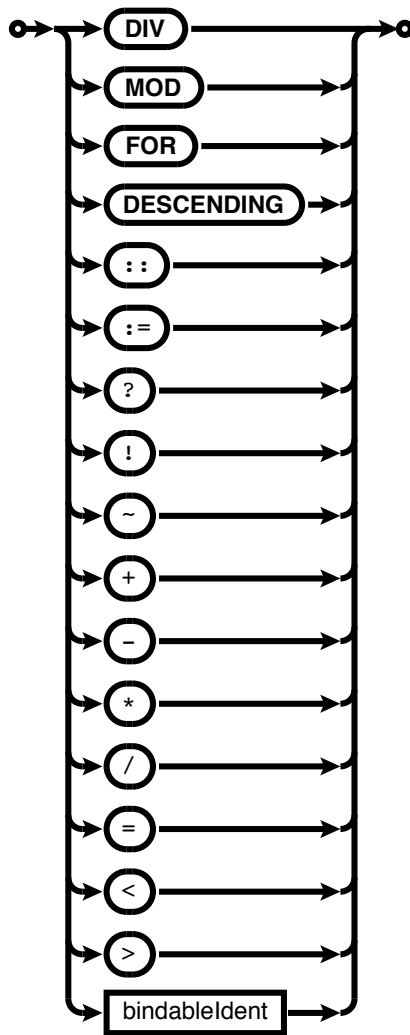
## #29 Procedure Declaration



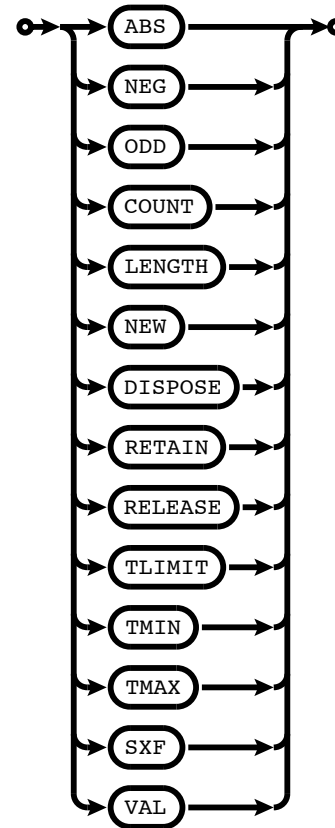
## #30 Procedure Header



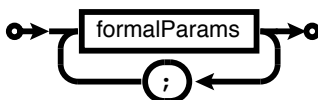
## #31 Bindable Entity



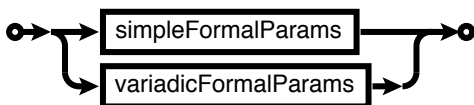
## #31.1 Bindable Identifier



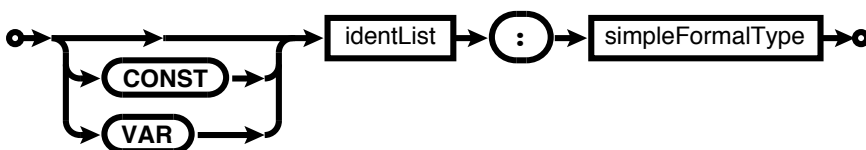
## #32 Formal Parameter List



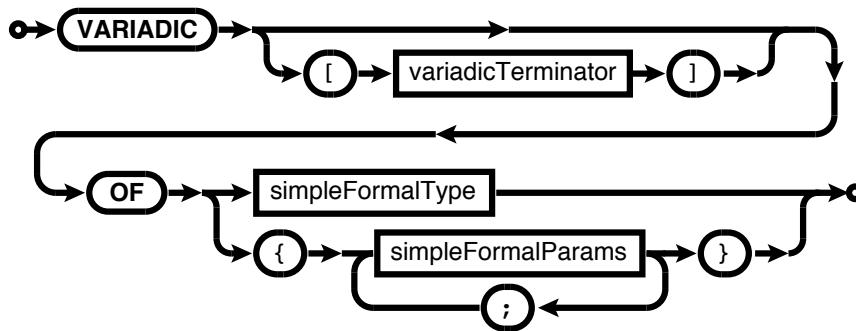
## #33 Formal Parameters



## #34 Simple Formal Parameters



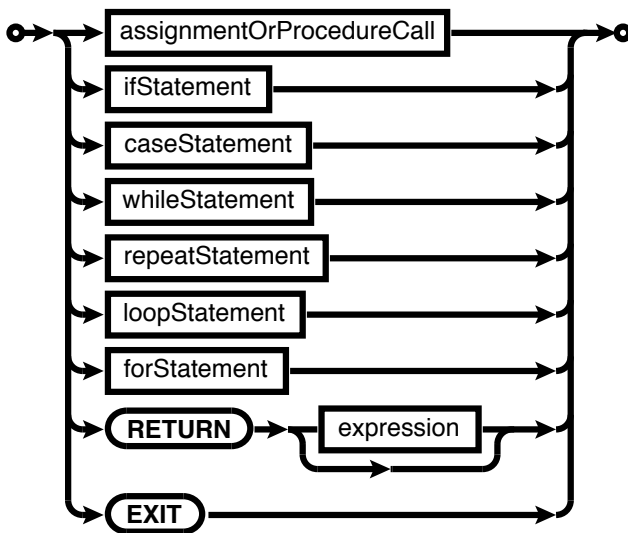
## #35 Variadic Formal Parameters



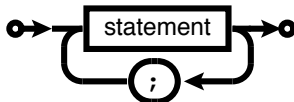
## #35.1 Variadic Terminator



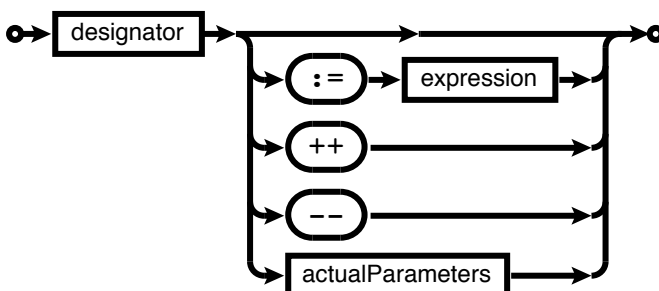
## #36 Statement



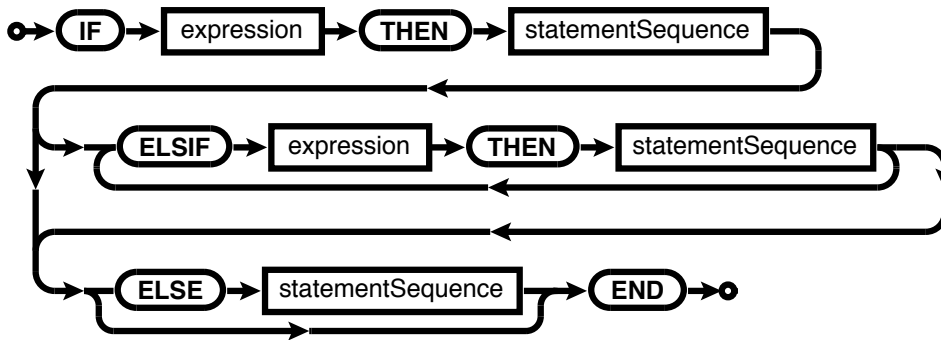
## #37 StatementSequence



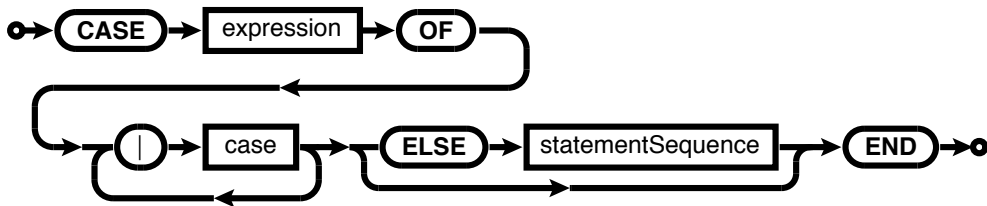
## #38 Assignment Or Procedure Call



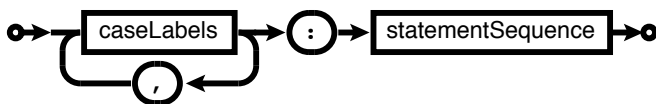
## #39 IF Statement



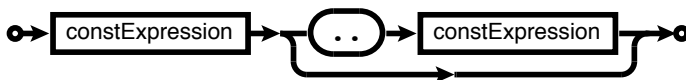
## #40 CASE Statement



## #41 Case



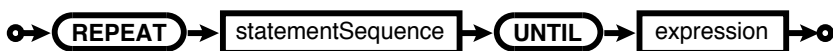
## #42 Case Labels



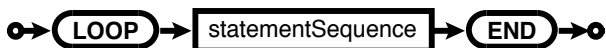
## #43 WHILE Statement



## #44 REPEAT Statement

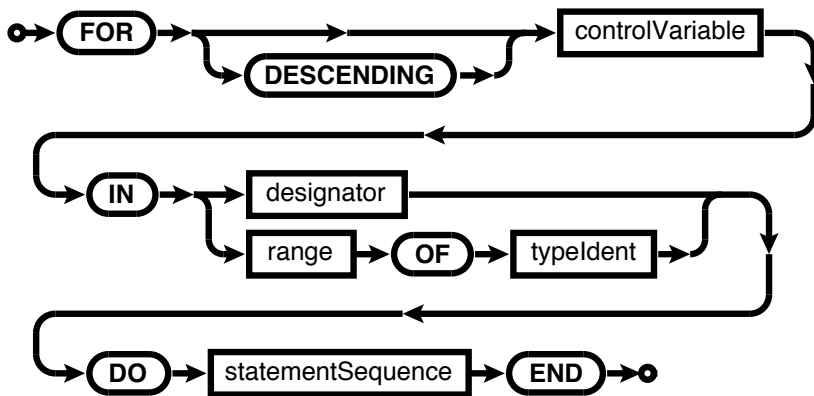


## #45 LOOP Statement





## #46 FOR Statement



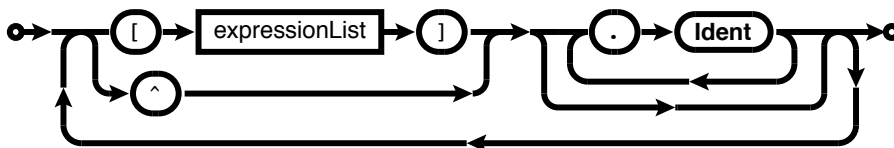
## #46.1 Control Variable



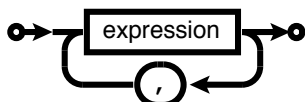
## #47 Designator



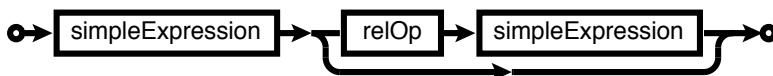
## #48 Designator Tail



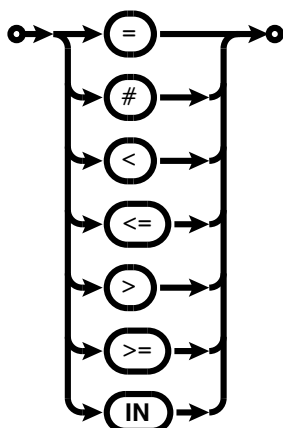
## #49 Expression List



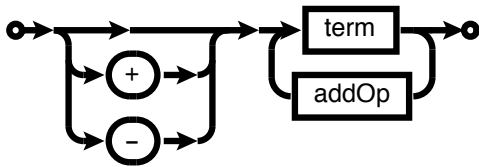
## #50 Expression



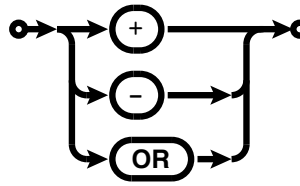
## #50.1 Relational Operator



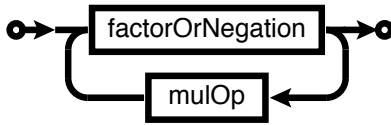
## #51 Simple Expression



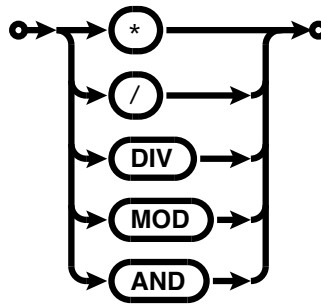
## #51.1 Add Operator



## #52 Term



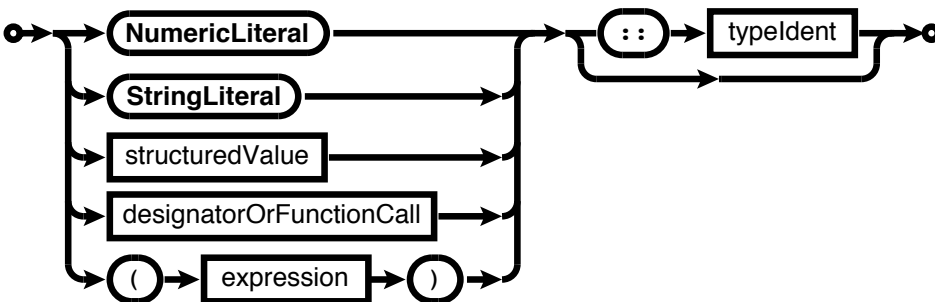
## #52.1 Multiply Operator



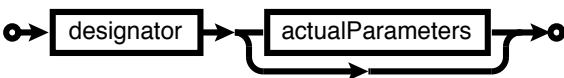
## #53 Factor Or Negation



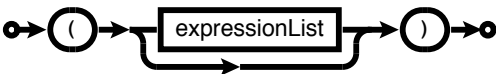
## #54 Factor



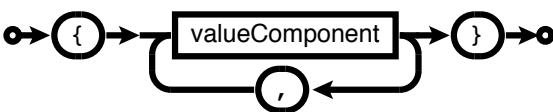
## #55 Designator Or Function Call

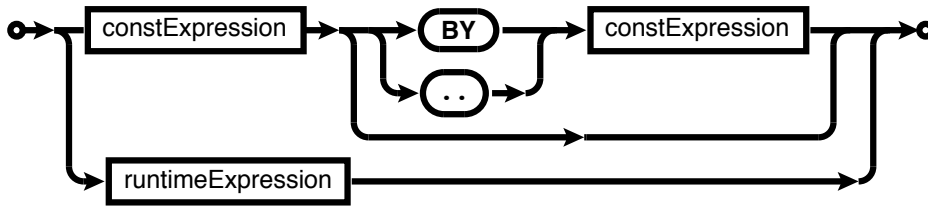
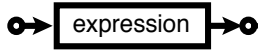
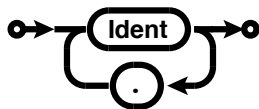
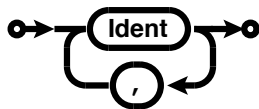


## #56 Actual Parameters



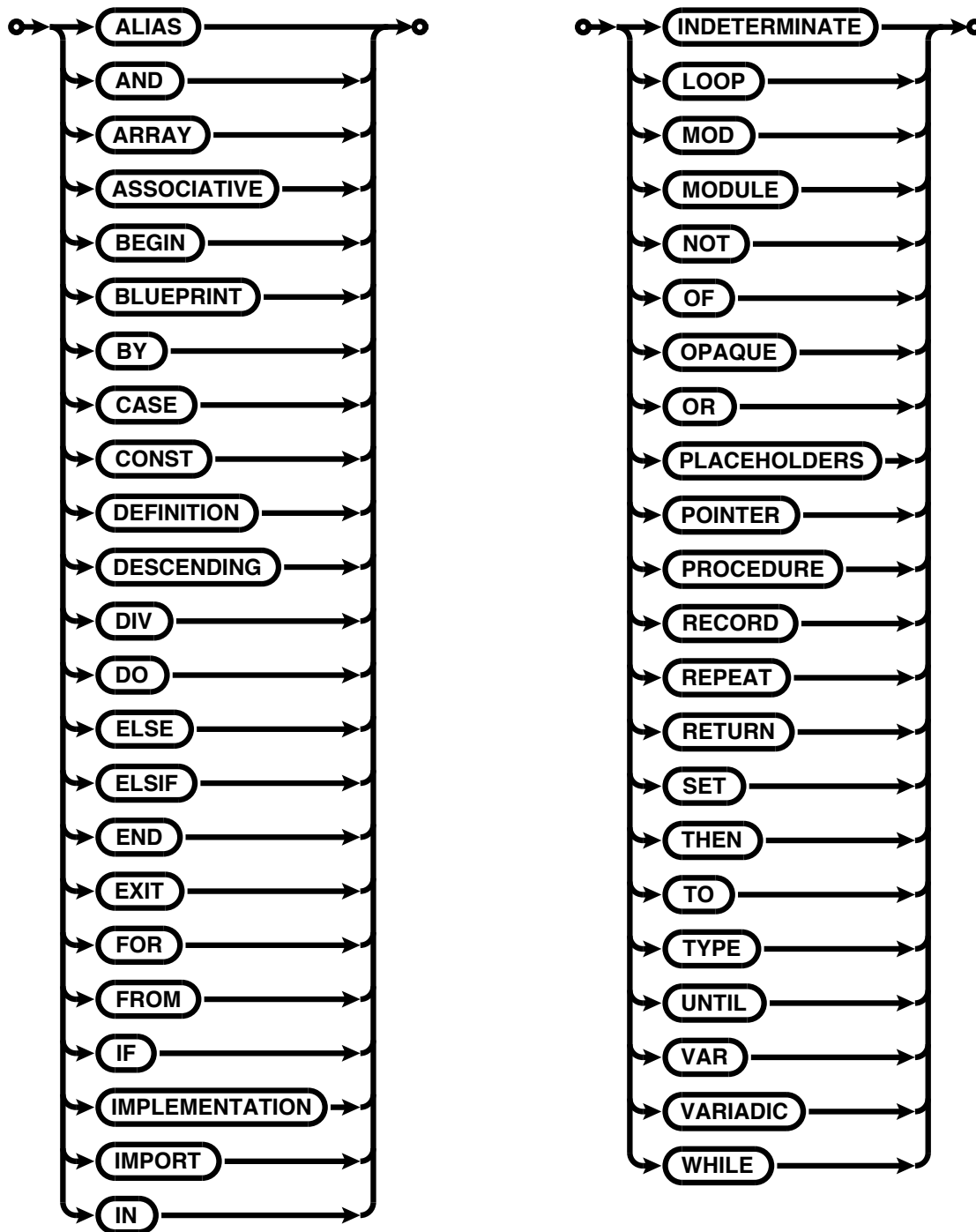
## #57 Structured Value



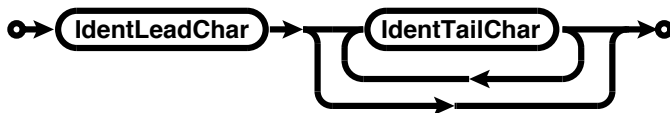
**#58 Value Component****#58.1 Runtime Expression****#59 Qualified Identifier****#60 Identifier List**

## B.2 Terminal Symbols

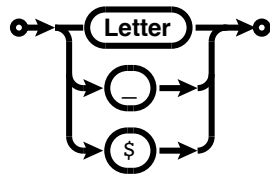
### #1 Reserved Words



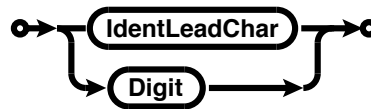
## #2 Identifier



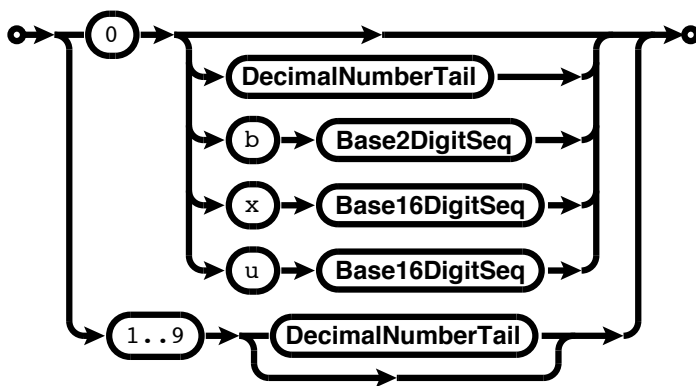
## #2.1 Identifier Leading Character



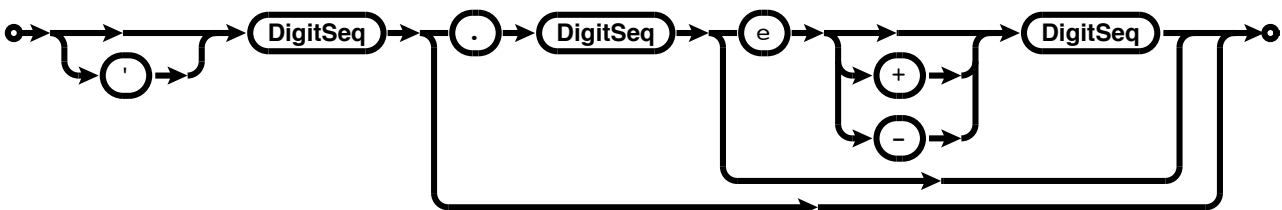
## #2.2 Identifier Tail Character



## #3 Numeric Literal



## #3.1 Decimal Number Tail



## #3.2 Digit Sequence



## #3.2b Digit Group



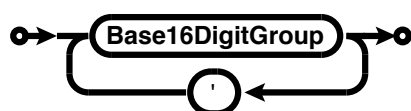
## #3.3 Base-2 Digit Sequence



## #3.3b Base-2 Digit Group

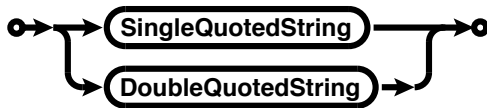
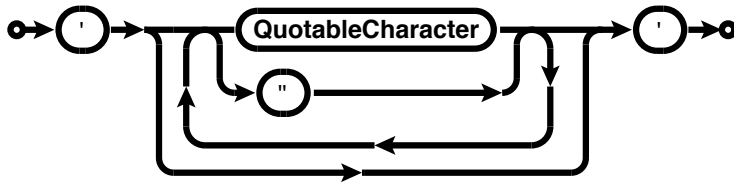
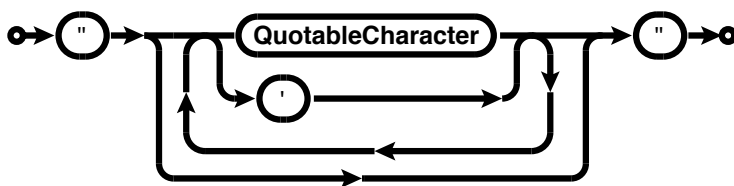
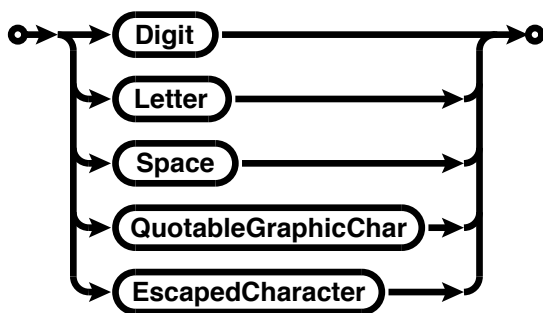
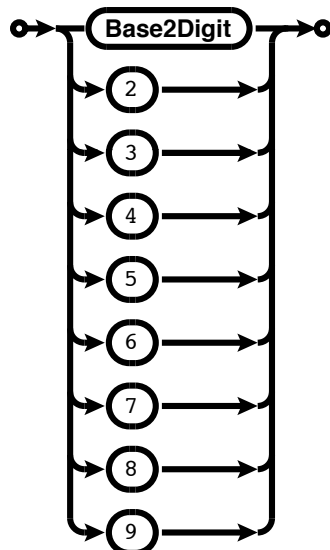
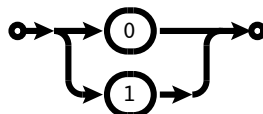
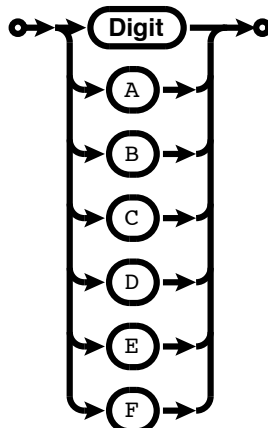
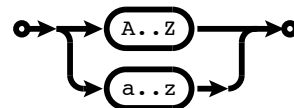


## #3.4 Base-16 Digit Sequence

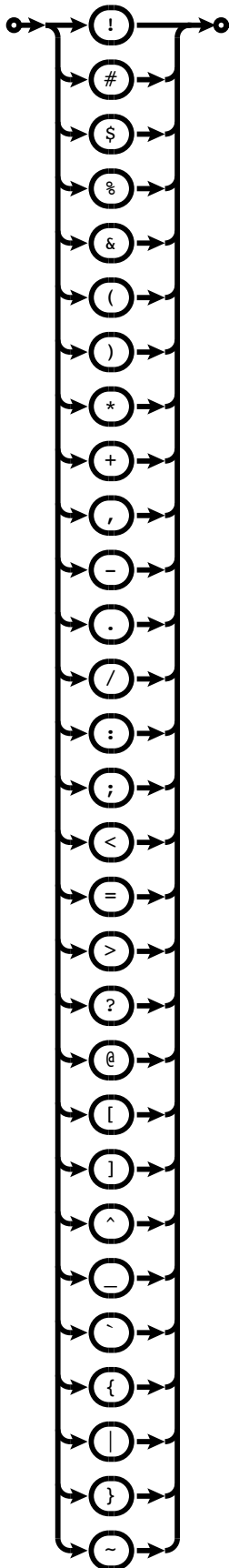
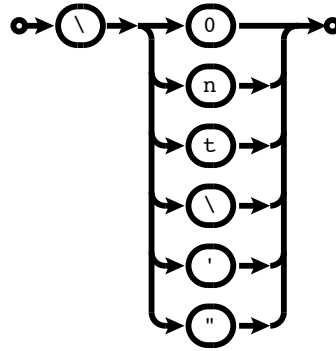


## #3.4b Base-16 Digit Group



**#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(32)

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

## B.3 Ignore Symbols

### #1 Whitespace



#### #1.1 ASCII Tabulator

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

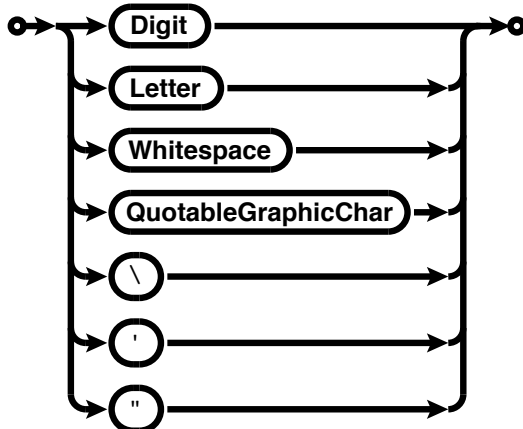
### #2 Single-line Comment



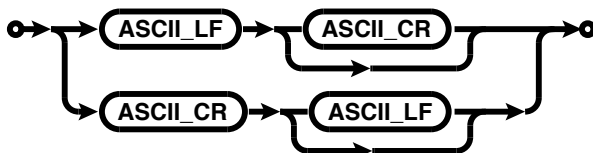
### #3 Multi-line Comment



#### #3.1 Comment Character



### #4 End Of Line Marker



#### #4.1 ASCII Line Feed

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

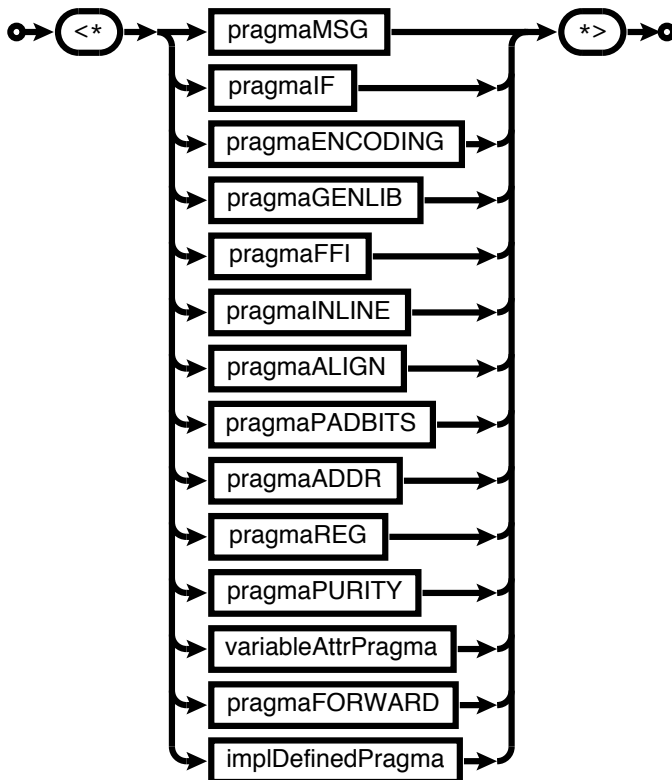
#### #4.2 ASCII Carriage Return

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

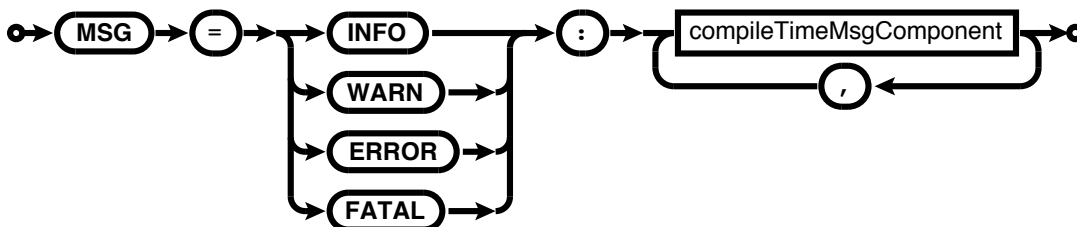


## B.4 Pragma Grammar

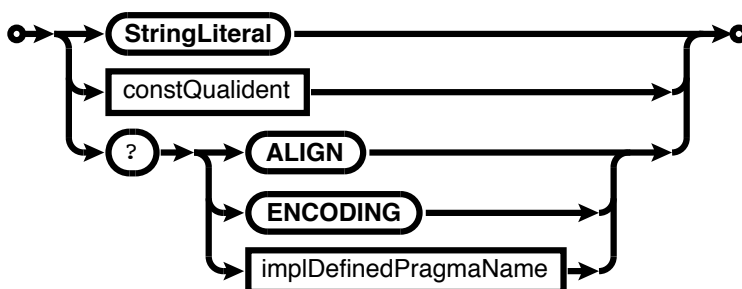
### #1 Pragma



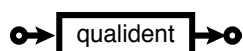
### #2 Body Of Compile Time Message Pragma



### #3 Compile Time Message Component

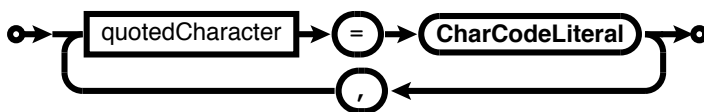
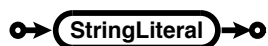
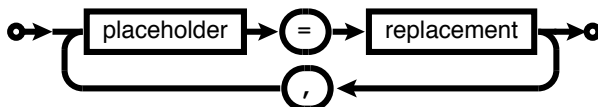
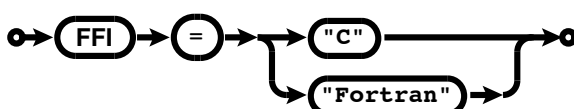
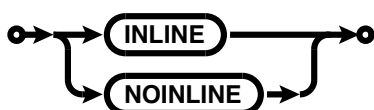
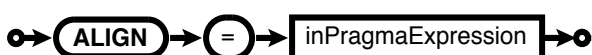


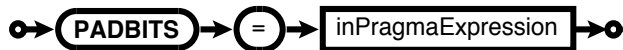
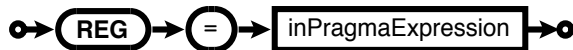
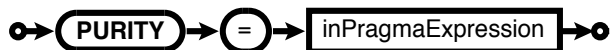
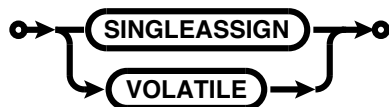
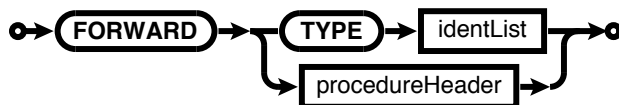
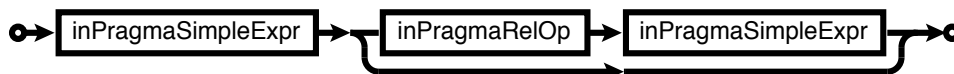
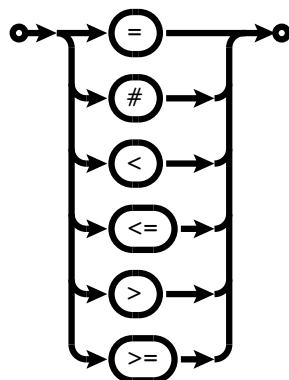
#### #3.1 Constant Qualified Identifier

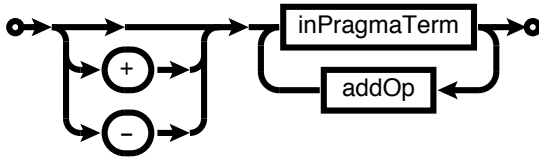
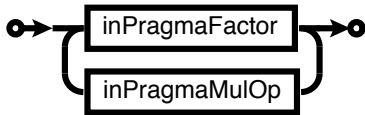
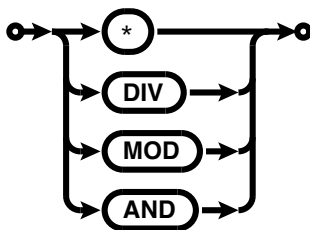
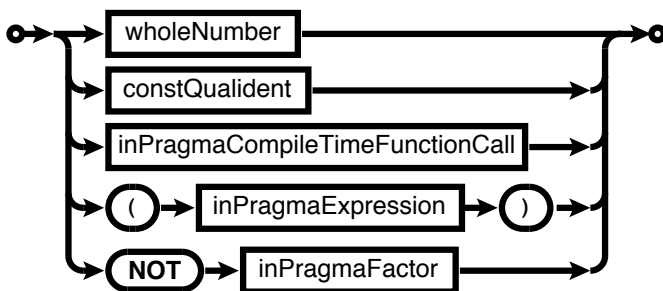


#### #3.2 Implementation Defined Pragma Name



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