

```
FUNCTION -> TYPE VARNAME(FARG){INNER}
INNER -> COMMENT INNER |
LOOP INNER |
CONDITIONALINNER |
VARDEFINNER |
STRUCT INNER |
FCALL INNER |
RETURN INNER |
;|
e |
INPUT INNER |
OUTPUT INNER |
MATH INNER |
ASSIGN INNER
VARNAME -> *VARNAME | &VARNAME | IDENTIFIER BRACKET
BRACKET -> BRACKET[INTMATH] | e
MARG -> MARG TYPE VARNAME, | e
FARG -> MARG TYPE VARNAME
VARDEF ->TYPE MVAR VARNAME; |
TYPE MVAR VARNAME = CONST; |
TYPE MVAR VARNAME = FCALL; |
TYPE MVAR VARNAME = RMATH; |
```

```
TYPE MVAR VARNAME = VARNAME; |
TYPE MVAR VARNAME = {MCONST CONST};
MVAR -> MVAR VARNAME, |
MVAR VARNAME = CONST, |
MVAR VARNAME = FCALL, |
MVAR VARNAME = RMATH, |
MVAR VARNAME = VARNAME, |
MVAR VARNAME = MCONST, |
e
MCONST -> MCONST CONST, | e
OPERATOR ->+
-|
*|
/|
&|
^|
П
%
MATH -> VARNAME = RMATH; |
;|
TYPE VARNAME = RMATH; |
VARNAME OPERATOR=RMATH; |
VARNAME++; |
```

VARNAME;
++VARNAME;
VARNAME;

RMATH = VARNAME
FCALL
VARNAME++
VARNAME
++VARNAME
VARNAME
(RMATH)
!RMATH
CONST
RMATH OPERATOR RMATH

INTMATH -> VARNAME
FCALL
(INTMATH)
!INTMATH
INTCONST
INTMATH OPERATOR INTMATH
VARNAME++
VARNAME
++VARNAME
VARNAME

CONDITIONAL->IFN SWITCHN

IFN -> if(COND){INNER}ELSE RELATIONALOPERATOR ->>| < ==| !=| <=| >= COND->(COND) COND&&COND | COND||COND| !COND | RMATH | COND RELATIONAL OPERATOR COND ELSE -> elif (COND) {INNER} ELSE | else {INNER} | e SWITCHN -> switch(COND){SWITCHINNER} SWITCHINNER -> case CONST:{INNER} SWITCHINNER | case CONST: INNER SWITCHINNER | default:{INNER} WODEFAULT| default: INNER WODEFAULT|

e

```
WODEFAULT -> case CONST:{INNER} WODEFAULT |
case CONST: INNER WODEFAULT
e
ARGT -> MARGT RMATH
MARGT -> MARGT RMATH, | e
FCALL -> VARNAME(ARGT)
LOOP -> FOR | WHILE
FL1-> MATH | e
FL2-> COND | e
FL3 -> VARNAME = RMATH |
TYPE VARNAME = RMATH
VARNAME OPERATOR = RMATH |
VARNAME++|
VARNAME--|
++VARNAME
--VARNAME
FOR -> for(FL1FL2; FL3){INNER}
WHILE->while(COND){INNER}
DOWHILE -> do{INNER}while(COND);
```