Program
declarationlist

declaration
function defination
FUNC ID C Params) statement
ε
compound Statement
: Statementlist END
Statementlist Statement
Statementlist statement
Statement
inputstatement
datatype ID EQUALTO INPUT C constant) ;
int q =
"Enter a name."

output statement
Print C at variable)
value
Id

func-call-stmt
fun-vas-dec-list EQUALTO CALL
datatype ID = ID C args)
Int b
arglist
expression
Simple expression
and Expression
unasy expression
relexpression
sum expression
term
unexpression
factor
immutable
ID

declarationlist
declaration
function_defination
FUNC ID C PARAMS) Statement
factorial Paramlist
Data type ID
Int x

Compound statement
: Statement_list END
Statement-list statement
Statement statement
local-declaration 2
datatype Int_dec_list
int_dec
ID EQUALTO Initializes
NUM
1
3

Statement

immutable
ID

(2) → Statement

Iteration statement

FOR (For-datatype—dec ID EQUALTO Start : Start: Start) Statement

Datatype   =   NUM   ID   NUM   compound statement

int   1   %   +1   :   Statementlist   END

                                                                              Statement

                                                                         Expression statement ;

                                                              ID   EQUALTO   Simple Expression

                                                            . term   =   and Expression

                                                                                   Unary Expression

                                                                                        relop

                                                                                   Sum Expression

                                                                                          term

                                                                            term   MULOP   UNARYEXP

                                                                        Unary Exp   factor

                                                                          factor   immutable

                                                                       immutable   ID

                                                                            ID

③ → Statement
↓
return Statement ;
↓ |
return   ID
↓
temp