statement statement statement statement statement

assignmentStatement assignmentStatement assignmentStatement assignmentStatement caseStatement

lhs = rhs lhs = rhs lhs = rhs lhs = rhs CASE expression OF expression statementList expression statementList expression expression expression statementList END write

variable expression variable expression variable expression variable expression simpleExpression simpleExpression statement statement simpleExpression statement statement simpleExpression simpleExpression simpleExpression statement statement

simpleExpression even simpleExpression odd simpleExpression prime simpleExpression term addOp term term assignmentStatement emptyStatement sign term assignmentStatement emptyStatement term term term assignmentStatement emptyStatement

term sign term sign term sign term factor factor factor lhs = rhs factor lhs = rhs factor factor factor lhs = rhs

factor factor factor factor variable number number variable expression number variable expression number number number variable expression

number number number number / unsignedNumber unsignedNumber simpleExpression unsignedNumber simpleExpression unsignedNumber unsignedNumber unsignedNumber simpleExpression

unsignedNumber unsignedNumber unsignedNumber unsignedNumber integerConstant integerConstant term integerConstant term integerConstant integerConstant integerConstant term

integerConstant integerConstant integerConstant integerConstant 1 1 factor 8 factor mulOp factor 5 7 4 factor mulOp factor

3 999 999 999 variable number variable number * variable

unsignedNumber unsignedNumber

integerConstant integerConstant

8 574

statement statement statement statement

writeStatement writeInStatement writeInStatement

expression statementList END write writeArgumentsOn writeIn writeArgumentsIn writeIn FOR assignmentStatement TO expression

simpleExpression statement statement writeArgumentListOn writeArgumentListIn lhs = rhs simpleExpression

term assignmentStatement emptyStatement writeArgumentList writeArgumentList variable expression term

factor lhs = rhs writeArgument writeArgument simpleExpression factor

number variable expression expression expression sign term number

number unsignedNumber simpleExpression simpleExpression simpleExpression factor unsignedNumber CASE expression OF expression statementList expression expression expression expression

integerConstant term term term number integerConstant simpleExpression simpleExpression statement statement simpleExpression simpleExpression simpleExpression simpleExpression

4 factor mulOp factor factor factor unsignedNumber TS term term compoundStatement emptyStatement sign term sign term term term

number * variable stringConstant variable integerConstant factor factor BEGIN statementList END factor factor factor factor

unsignedNumber j j := j 5 variable number statement statement number number number number

integerConstant j unsignedNumber assignmentStatement assignmentStatement unsignedNumber unsignedNumber unsignedNumber unsignedNumber

574 integerConstant lhs = rhs lhs = rhs integerConstant integerConstant integerConstant integerConstant

2 variable expression variable expression 4 2 9 4

even simpleExpression prime simpleExpression

term term

program
programHeader — block
PROGRAM TestCase — declarations — compoundStatement
BEGIN statementList END

statement
forStatement
DO

statement
caseStatement

CASE expression OF expression ... statementList
simpleExpression simpleExpression term term factor factor
variable number
unsignedNumber
integerConstant

BEGIN statementList END
statement statement
compoundStatement emptyStatement
assignmentStatement
lhs := rhs
variable expression
even simpleExpression prime simpleExpression
term term
factor factor
variable variable

expression simpleExpression term factor number unsignedNumber integerConstant
2 4 2 0 2 6 8 10 12 14

statement
caseStatement
statementList END
statement
compoundStatement
BEGIN statementList END
statement
assignmentStatement
lhs := rhs CASE expression OF expression expression
variable expression simpleExpression simpleExpression simpleExpression
odd simpleExpression term term term
term factor factor factor

sign term sign term sign term term term term term term term term
factor factor factor factor factor factor factor factor factor factor
number number number number number number number number number number
unsignedNumber
integerConstant
5 3 1 1 3 5 7 9 11 13 15

statement

compoundStatement

BEGIN statementList END

statement | statement | statement | statement

writeStatement | writeStatement | writeStatement | ifStatement

statementList END | write writeArgumentsOn | write writeArgumentsOn | write writeArgumentsOn | if expression THEN statement ELSE

statement | writeArgumentListOn | writeArgumentListOn | writeArgumentListOn | simpleExpression relOp simpleExpression | writeStatement

compoundStatement | writeArgumentList | writeArgumentList | writeArgumentList | term < > sign term | write writeArgumentsOn

BEGIN statementList END | writeArgument | writeArgument | writeArgument | factor | factor | writeArgumentListOn

statement | statement | expression | expression | fieldWidth | expression | variable | number | writeArgumentList

assignmentStatement | caseStatement | simpleExpression | simpleExpression | integerConstant | simpleExpression | even | unsignedNumber | writeArgument

lhs := rhs | CASE expression Of expression | expression | expression | expression | expression | expression | statementList END | term | term | 3 | term | integerConstant | expression | fieldWidth

variable | expression | simpleExpression | simpleExpression | simpleExpression | simpleExpression | simpleExpression | simpleExpression | statement | factor | factor | factor | 999 | simpleExpression | integerConstant

odd simpleExpression | term | term | term | term | term | term | assignmentStatement stringConstant | variable | stringConstant | term | 3

term | factor | factor | factor | factor | factor | factor | lhs := rhs | 'i ' | | ' even ' | factor

factor | variable | number | number | number | number | number | variable expression | variable

variable | | unsignedNumber | unsignedNumber | unsignedNumber | unsignedNumber | unsignedNumber | prime simpleExpression | even

| | integerConstant | integerConstant | integerConstant | integerConstant | integerConstant | | term

| | 2 | 3 | 5 | 7 | 11 | 13 | factor

statement
compoundStatement
BEGIN statementList END

writeln

statement | statement | statement | statement | statement | statement
writeStatement writeStatement writeStatement ifStatement writeStatement ifStatement
write writeArgumentsOn write writeArgumentsOn write writeArgumentsOn IF expression THEN statement ELSE statement write writeArgumentsOn IF expression THEN statement ELSE statement

writeArgumentListOn writeArgumentListOn writeArgumentListOn simpleExpression relOp simpleExpression writeStatement writeStatement writeArgumentListOn simpleExpression relOp simpleExpression writeStatement writeStatement

writeArgumentList writeArgumentList writeArgumentList term <= sign term write writeArgumentsOn write writeArgumentsOn writeArgumentList term < sign term write writeArgumentsOn write writeArgumentsOn

writeArgument writeArgument writeArgument factor factor writeArgumentListOn writeArgumentListOn writeArgument factor factor writeArgumentListOn writeArgumentListOn
expression expression fieldWidth expression variable number writeArgumentList writeArgumentList expression variable number writeArgumentList writeArgumentList
simpleExpression simpleExpression integerConstant simpleExpression even number writeArgument writeArgument simpleExpression odd number writeArgument writeArgument
statementList END term 3 term unsignedNumber writeArgument writeArgument term unsignedNumber writeArgument writeArgument
statement factor factor factor integerConstant expression fieldWidth expression factor integerConstant expression fieldWidth expression
assignmentStatement variable stringConstant stringConstant 999 simpleExpression integerConstant simpleExpression stringConstant 999 simpleExpression integerConstant simpleExpression
lhs := rhs '-=-' ':-even-=-' term 3 term '-odd-=-' term 3 term
variable expression factor factor factor factor
prime simpleExpression variable stringConstant variable stringConstant
term even '-' odd '-'
factor
variable

statement | statement
writelnStatement writelnStatement
writeln writeln writeArgumentsln
writeArgumentListln
writeArgumentList

statement | statement | statement | statement | statement | statement | statement writeArgument
ifStatement writeStatement ifStatement writelnStatement assignmentStatement assignmentStatement assignmentStatement expression
IF expression THEN statement ELSE statement write writeArgumentsOn IF expression THEN statement ELSE statement writeln lhs := rhs lhs := rhs lhs := rhs simpleExpression
simpleExpression relOp simpleExpression writeStatement writeStatement writeArgumentListOn simpleExpression relOp simpleExpression writeStatement writeStatement variable expression variable expression variable expression term
term <= sign term write writeArgumentsOn write writeArgumentsOn writeArgumentList term <= sign term write writeArgumentsOn write writeArgumentsOn even simpleExpression odd simpleExpression prime simpleExpression factor
factor factor writeArgumentListOn writeArgumentListOn writeArgument factor factor writeArgumentListOn writeArgumentListOn sign term sign term sign term stringConstant
variable number writeArgumentList writeArgumentList expression variable number writeArgumentList writeArgumentList '+' factor '+' factor '+' factor 'Done!'
odd unsignedNumber writeArgument writeArgument simpleExpression prime unsignedNumber writeArgument writeArgument number number number
integerConstant expression fieldWidth expression term integerConstant expression fieldWidth expression unsignedNumber unsignedNumber unsignedNumber
999 simpleExpression integerConstant simpleExpression factor 999 simpleExpression integerConstant simpleExpression integerConstant integerConstant integerConstant
term 3 term stringConstant term 3 term 999 999 999
factor factor '-prime-=-' factor factor
variable stringConstant variable stringConstant
odd '-' prime '-'