

Example P-Code file all.pcd

```
cup    0    L00000
cup    5    L00001
csp          rdb
csp          rdc
csp          rdi
csp          rdr
csp          rln
csp          wrb
L00019
csp          wrc
csp          wri
csp          wre
L00020 csp          wrf
csp          wrs
csp          wrt
csp          wln
csp          sqt
csp          ln
csp          exp
ent    sp    L00002
ent    ep    L00003
#define L00002 5
#define L00003 17
mst          0
mst          5
mst          1
rtn    b
rtn    c
rtn    i
rtn    r
rtn    p
equ    b
equ    c
equ    i
equ    r
equ    s
equ    t
neq    b
neq    c
neq    i
neq    r
neq    s
neq    t
grt    b
grt    c
grt    i
grt    r
```

grt s
grt t
geq b
geq c
geq i
geq r
geq s
geq t
les b
les c
les i
les r
les s
les t
leq b
leq c
leq i
leq r
leq s
leq t
adi
sbi
ngi
mpi
dvi
mod
abi
sqi
inc a
inc b
inc c
inc i
dec a
dec b
dec c
dec i
adr
sbr
ngr
mpr
dvr
abr
sqr
ior
and
xor
not
inn

```

uni
ntr
dif
cmp
sgs
ujp      L00005
xjp      L00006
fjp      L00007
tjp      L00008
flt
flo
trc
rnd
chr
ord
stp
lda      2      13
ldc      b      0
ldc      b      1
ldc      c      'a'
ldc      c      '!'
ldc      c      ""
ldc      i      54
ldc      i      -17
ldc      r      1.0
ldc      r      2e10
ldc      r      -1.602e-19
ldc      s      'Mary had a little lamb.'
ldc      s      'a'
ldi      a
ldi      b
ldi      c
ldi      i
ldi      r
ldi      s
ldi      t
lva      0      12
lvb      1      5
lvc      2      10
lvi      0      5
lvr      1      12
lvs      2      13
lvt      6      5
sti      a
sti      b
sti      c
sti      i
sti      r

```

```
sti    s
sti    t
ixa    4
ixa    16
ixa    1
```

Example trace file for P-Code file all.pcd
Token=(266,CUP_O,cup)
Token=(260,INTLIT,0)
Token=(258,LABEL,L00000)
#065 class2-operation->cup INTLIT LABEL
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#002 list->item
Token=(266,CUP_O,cup)
Token=(260,INTLIT,5)
Token=(258,LABEL,L00001)
#065 class2-operation->cup INTLIT LABEL
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(344,RDB_F,rdb)
#093 sdfunction->RDB
#059 class2-operation->csp stdfunction
csp(01) 0(00) rdb(0000)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(345,RDC_F,rdc)
#094 sdfunction->RDC
#059 class2-operation->csp stdfunction
csp(01) 0(00) rdc(0001)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(346,RDI_F,rdi)
#095 sdfunction->RDI
#059 class2-operation->csp stdfunction

csp(01) 0(00) rdi(0002)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(347,RDR_F,rdr)
#096 sdfunction->RDR
#059 class2-operation->csp stdfunction
csp(01) 0(00) rdr(0003)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(348,RLN_F,rln)
#097 sdfunction->RLN
#059 class2-operation->csp stdfunction
csp(01) 0(00) rln(0004)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(349,WRB_F,wrb)
#098 sdfunction->WRB
#059 class2-operation->csp stdfunction
csp(01) 0(00) wrb(0005)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(258,LABEL,L00019)
#009 label-list->LABEL
Token=(267,CSP_O,csp)
Token=(350,WRC_F,wrc)
#099 sdfunction->WRC
#059 class2-operation->csp stdfunction
csp(01) 0(00) wrc(0006)
#013 operation->class2-operation
#007 statement->label-list operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(351,WRI_F,wri)
#100 sdfuction->WRI
#059 class2-operation->csp stdfunction
csp(01) 0(00) wri(0007)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(352,WRE_F,wre)
#101 sdfuction->WRE
#059 class2-operation->csp stdfunction
csp(01) 0(00) wre(0008)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(258,LABEL,L00020)
#009 label-list->LABEL
Token=(267,CSP_O,csp)
Token=(353,WRF_F,wrf)
#102 sdfuction->WRF
#059 class2-operation->csp stdfunction
csp(01) 0(00) wrf(0009)
#013 operation->class2-operation
#007 statement->label-list operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(354,WRS_F,wrs)
#103 sdfuction->WRS
#059 class2-operation->csp stdfunction
csp(01) 0(00) wrs(000a)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(355,WRT_F,wrt)
#104 sdfuction->WRT
#059 class2-operation->csp stdfunction
csp(01) 0(00) wrt(000b)
#013 operation->class2-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(356,WLN_F,wln)
#105 sdfunction->WLN
#059 class2-operation->csp stdfunction
csp(01) 0(00) wln(000c)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(357,SQT_F,sqt)
#106 sdfunction->SQT
#059 class2-operation->csp stdfunction
csp(01) 0(00) sqt(000d)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(358,LN_F,ln)
#107 sdfunction->LN
#059 class2-operation->csp stdfunction
csp(01) 0(00) ln(000e)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(267,CSP_O,csp)
Token=(359,EXP_F,exp)
#108 sdfunction->EXP
#059 class2-operation->csp stdfunction
csp(01) 0(00) exp(000f)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(268,ENT_O,ent)
Token=(338,SP_R,sp)
#088 register->SP
Token=(258,LABEL,L00002)

#066 class2-operation->ent register INTLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(268,ENT_O,ent)
Token=(339,EP_R,ep)
#089 register->EP
Token=(258,LABEL,L00003)
#066 class2-operation->ent register INTLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(259,DEFINE,#define)
Token=(258,LABEL,L00002)
Token=(260,INTLIT,5)
#006 definition->DEFINE LABEL INTLIT
#005 item->definition
#003 list->list item

Token=(259,DEFINE,#define)
Token=(258,LABEL,L00003)
Token=(260,INTLIT,17)
#006 definition->DEFINE LABEL INTLIT
#005 item->definition
#003 list->list item

Token=(269,MST_O,mst)
Token=(260,INTLIT,0)
#047 class1-operation->mst intlrit
mst(03) 0(00) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(269,MST_O,mst)
Token=(260,INTLIT,5)
#047 class1-operation->mst intlrit
mst(03) 5(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(269,MST_O,mst)
Token=(260,INTLIT,1)
#047 class1-operation->mst intlit
mst(03) 1(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(270,RTN_O,rtn)
Token=(329,B_T,b)
#081 type->B
#048 class1-operation->rtn type
rtn(04) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(270,RTN_O,rtn)
Token=(330,C_T,c)
#082 type->C
#048 class1-operation->rtn type
rtn(04) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(270,RTN_O,rtn)
Token=(331,I_T,i)
#083 type->I
#048 class1-operation->rtn type
rtn(04) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(270,RTN_O,rtn)
Token=(332,R_T,r)
#084 type->R
#048 class1-operation->rtn type
rtn(04) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(270,RTN_O,rtn)
Token=(335,P_T,p)
#079 type->P
#048 class1-operation->rtn type
rtn(04) p(07) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(271,EQU_O,equ)
Token=(329,B_T,b)
#081 type->B
#049 class1-operation->equ type
equ(05) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(271,EQU_O,equ)
Token=(330,C_T,c)
#082 type->C
#049 class1-operation->equ type
equ(05) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(271,EQU_O,equ)
Token=(331,I_T,i)
#083 type->I
#049 class1-operation->equ type
equ(05) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(271,EQU_O,equ)
Token=(332,R_T,r)
#084 type->R
#049 class1-operation->equ type
equ(05) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation

#004 item->statement
#003 list->list item

Token=(271,EQU_O,eq)
Token=(333,S_T,s)
#085 type->S
#049 class1-operation->equ type
equ(05) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(271,EQU_O,eq)
Token=(334,T_T,t)
#086 type->T
#049 class1-operation->equ type
equ(05) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(272,NEQ_O,neq)
Token=(329,B_T,b)
#081 type->B
#050 class1-operation->neq type
neq(06) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(272,NEQ_O,neq)
Token=(330,C_T,c)
#082 type->C
#050 class1-operation->neq type
neq(06) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(272,NEQ_O,neq)
Token=(331,I_T,i)
#083 type->I
#050 class1-operation->neq type
neq(06) i(03) 0(0000)

#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(272,NEQ_O,neq)
Token=(332,R_T,r)
#084 type->R
#050 class1-operation->neq type
neq(06) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(272,NEQ_O,neq)
Token=(333,S_T,s)
#085 type->S
#050 class1-operation->neq type
neq(06) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(272,NEQ_O,neq)
Token=(334,T_T,t)
#086 type->T
#050 class1-operation->neq type
neq(06) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(273,GRT_O,grt)
Token=(329,B_T,b)
#081 type->B
#053 class1-operation->grt type
grt(07) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(273,GRT_O,grt)
Token=(330,C_T,c)
#082 type->C

#053 class1-operation->grt type
grt(07) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(273,GRT_O,grt)
Token=(331,I_T,i)
#083 type->I
#053 class1-operation->grt type
grt(07) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(273,GRT_O,grt)
Token=(332,R_T,r)
#084 type->R
#053 class1-operation->grt type
grt(07) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(273,GRT_O,grt)
Token=(333,S_T,s)
#085 type->S
#053 class1-operation->grt type
grt(07) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(273,GRT_O,grt)
Token=(334,T_T,t)
#086 type->T
#053 class1-operation->grt type
grt(07) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(274,GEQ_O,geq)

Token=(329,B_T,b)
#081 type->B
#054 class1-operation->geq type
geq(08) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(274,GEQ_O,geq)
Token=(330,C_T,c)
#082 type->C
#054 class1-operation->geq type
geq(08) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(274,GEQ_O,geq)
Token=(331,I_T,i)
#083 type->I
#054 class1-operation->geq type
geq(08) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(274,GEQ_O,geq)
Token=(332,R_T,r)
#084 type->R
#054 class1-operation->geq type
geq(08) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(274,GEQ_O,geq)
Token=(333,S_T,s)
#085 type->S
#054 class1-operation->geq type
geq(08) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement

#003 list->list item

Token=(274,GEO_O,geq)
Token=(334,T_T,t)
#086 type->T
#054 class1-operation->geq type
geq(08) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(275,LES_O,les)
Token=(329,B_T,b)
#081 type->B
#051 class1-operation->les type
les(09) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(275,LES_O,les)
Token=(330,C_T,c)
#082 type->C
#051 class1-operation->les type
les(09) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(275,LES_O,les)
Token=(331,I_T,i)
#083 type->I
#051 class1-operation->les type
les(09) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(275,LES_O,les)
Token=(332,R_T,r)
#084 type->R
#051 class1-operation->les type
les(09) r(04) 0(0000)
#012 operation->class1-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(275,LES_O,les)
Token=(333,S_T,s)
#085 type->S
#051 class1-operation->les type
les(09) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(275,LES_O,les)
Token=(334,T_T,t)
#086 type->T
#051 class1-operation->les type
les(09) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(276,LEQ_O,leq)
Token=(329,B_T,b)
#081 type->B
#052 class1-operation->leq type
leq(0a) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(276,LEQ_O,leq)
Token=(330,C_T,c)
#082 type->C
#052 class1-operation->leq type
leq(0a) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(276,LEQ_O,leq)
Token=(331,I_T,i)
#083 type->I
#052 class1-operation->leq type

leq(0a) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(276,LEQ_O,leq)
Token=(332,R_T,r)
#084 type->R
#052 class1-operation->leq type
leq(0a) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(276,LEQ_O,leq)
Token=(333,S_T,s)
#085 type->S
#052 class1-operation->leq type
leq(0a) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(276,LEQ_O,leq)
Token=(334,T_T,t)
#086 type->T
#052 class1-operation->leq type
leq(0a) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(277,ADI_O,adi)
#015 class0-operation->adi
adi(0b) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(278,SBI_O,sbi)
#016 class0-operation->sbi
sbi(0c) 0(00) 0(0000)
#011 operation->class0-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(279,NGI_O,ngi)
#017 class0-operation->ngi
ngi(0d) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(280,MPI_O,mpi)
#018 class0-operation->mpi
mpi(0e) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(281,DVI_O,dvi)
#019 class0-operation->dvi
dvi(0f) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(282,MOD_O,mod)
#020 class0-operation->mod
mod(10) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(283,ABI_O,abi)
#021 class0-operation->abi
abi(11) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(284,SQI_O,sqi)
#022 class0-operation->sqi
sqi(12) 0(00) 0(0000)
#011 operation->class0-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(285,INC_O,inc)
Token=(328,A_T,a)
#080 type->A
#057 class1-operation->inc type
inc(13) 0(00) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(285,INC_O,inc)
Token=(329,B_T,b)
#081 type->B
#057 class1-operation->inc type
inc(13) 1(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(285,INC_O,inc)
Token=(330,C_T,c)
#082 type->C
#057 class1-operation->inc type
inc(13) 2(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(285,INC_O,inc)
Token=(331,I_T,i)
#083 type->I
#057 class1-operation->inc type
inc(13) 3(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(286,DEC_O,dec)
Token=(328,A_T,a)
#080 type->A
#058 class1-operation->dec type

dec(14) 0(00) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(286,DEC_O,dec)
Token=(329,B_T,b)
#081 type->B
#058 class1-operation->dec type
dec(14) 1(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(286,DEC_O,dec)
Token=(330,C_T,c)
#082 type->C
#058 class1-operation->dec type
dec(14) 2(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(286,DEC_O,dec)
Token=(331,I_T,i)
#083 type->I
#058 class1-operation->dec type
dec(14) 3(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(287,ADR_O,adr)
#023 class0-operation->adr
adr(15) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(288,SBR_O,sbr)
#024 class0-operation->sbr
sbr(16) 0(00) 0(0000)
#011 operation->class0-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(289,NGR_O,ngr)
#025 class0-operation->ngr
ngr(17) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(290,MPR_O,mpr)
#026 class0-operation->mpr
mpr(18) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(291,DVR_O,dvr)
#027 class0-operation->dvr
dvr(19) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(292,ABR_O,abr)
#028 class0-operation->abr
abr(1a) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(293,SQR_O,sqr)
#029 class0-operation->sqr
sqr(1b) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(294,IOR_O,ior)
#030 class0-operation->ior
ior(1c) 0(00) 0(0000)
#011 operation->class0-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(295,AND_O,and)
#032 class0-operation->and
and(1d) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(296,XOR_O,xor)
#031 class0-operation->xor
xor(1e) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(297,NOT_O,not)
#033 class0-operation->not
not(1f) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(298,INN_O,inn)
#034 class0-operation->inn
inn(20) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(299,UNI_O,uni)
#035 class0-operation->uni
uni(21) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(300,NTR_O,ntr)
#036 class0-operation->ntr
ntr(22) 0(00) 0(0000)
#011 operation->class0-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(301,DIF_O,dif)
#037 class0-operation->dif
dif(23) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(302,CMP_O,cmp)
#038 class0-operation->cmp
cmp(24) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(303,SGS_O,sgs)
#039 class0-operation->sgs
sgs(25) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(304,UJP_O,ujp)
Token=(258,LABEL,L00005)
#060 class2-operation->ujp LABEL
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(305,XJP_O,xjp)
Token=(258,LABEL,L00006)
#063 class2-operation->xjp LABEL
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(306,FJP_O,fjp)
Token=(258,LABEL,L00007)
#061 class2-operation->fjp LABEL
#013 operation->class2-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(307,TJP_O,tjp)
Token=(258,LABEL,L00008)
#062 class2-operation->tjp LABEL
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(308,FLT_O,flt)
#040 class0-operation->flt
flt(2a) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(309,FLO_O,flo)
#041 class0-operation->flo
flo(2b) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(310,TRC_O,trc)
#042 class0-operation->trc
trc(2c) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(311,RND_O,rnd)
#043 class0-operation->rnd
rnd(2d) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(312,CHR_O,chr)
#044 class0-operation->chr
chr(2e) 0(00) 0(0000)
#011 operation->class0-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(313,ORD_O,ord)
#045 class0-operation->ord
ord(2f) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(314,STP_O,stp)
#046 class0-operation->stp
stp(30) 0(00) 0(0000)
#011 operation->class0-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(315,LDA_O,lda)
Token=(260,INTLIT,2)
Token=(260,INTLIT,13)
#067 class2-operation->lda INTLIT INTLIT
lda(31) 2(02) 13(000d)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(329,B_T,b)
#081 type->B
Token=(260,INTLIT,0)
#068 class2-operation->ldc type INTLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(329,B_T,b)
#081 type->B
Token=(260,INTLIT,1)
#068 class2-operation->ldc type INTLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement

#003 list->list item

Token=(316,LDC_O,ldc)
Token=(330,C_T,c)
#082 type->C
Token=(263,CHRLIT,'a')
#070 class2-operation->ldc type CHRLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(330,C_T,c)
#082 type->C
Token=(263,CHRLIT,'!')
#070 class2-operation->ldc type CHRLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(330,C_T,c)
#082 type->C
Token=(263,CHRLIT,"")
#070 class2-operation->ldc type CHRLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(331,I_T,i)
#083 type->I
Token=(260,INTLIT,54)
#068 class2-operation->ldc type INTLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(331,I_T,i)
#083 type->I
Token=(260,INTLIT,-17)
#068 class2-operation->ldc type INTLIT
#014 operation->class3-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(332,R_T,r)
#084 type->R
Token=(261,REALIT,1.0)
#069 class2-operation->ldc type REALIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(332,R_T,r)
#084 type->R
Token=(261,REALIT,2e10)
#069 class2-operation->ldc type REALIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(332,R_T,r)
#084 type->R
Token=(261,REALIT,-1.602e-19)
#069 class2-operation->ldc type REALIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(333,S_T,s)
#085 type->S
Token=(262,STRLIT,'Mary had a little lamb.')
#071 class2-operation->ldc type STRLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(316,LDC_O,ldc)
Token=(333,S_T,s)
#085 type->S
Token=(263,CHRLIT,'a')

#070 class2-operation->ldc type CHRLIT
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(328,A_T,a)
#080 type->A
#055 class1-operation->ldi type
ldi(33) a(00) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(329,B_T,b)
#081 type->B
#055 class1-operation->ldi type
ldi(33) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(330,C_T,c)
#082 type->C
#055 class1-operation->ldi type
ldi(33) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(331,I_T,i)
#083 type->I
#055 class1-operation->ldi type
ldi(33) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(332,R_T,r)

#084 type->R
#055 class1-operation->ldi type
ldi(33) r(04) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(333,S_T,s)
#085 type->S
#055 class1-operation->ldi type
ldi(33) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(317,LDI_O,ldi)
Token=(334,T_T,t)
#086 type->T
#055 class1-operation->ldi type
ldi(33) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(318,LVA_O,lva)
Token=(260,INTLIT,0)
Token=(260,INTLIT,12)
#072 class2-operation->lva INTLIT INTLIT
lva(34) 0(00) 12(000c)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(319,LVB_O,lvb)
Token=(260,INTLIT,1)
Token=(260,INTLIT,5)
#073 class2-operation->lvb INTLIT INTLIT
lvb(35) 1(01) 5(0005)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(320,LVC_O,lvc)
Token=(260,INTLIT,2)
Token=(260,INTLIT,10)
#074 class2-operation->lvc INTLIT INTLIT
lvc(36) 2(02) 10(000a)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(321,LVI_O,lvi)
Token=(260,INTLIT,0)
Token=(260,INTLIT,5)
#075 class2-operation->lvi INTLIT INTLIT
lvi(37) 0(00) 5(0005)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(322,LVR_O,lvr)
Token=(260,INTLIT,1)
Token=(260,INTLIT,12)
#076 class2-operation->lvr INTLIT INTLIT
lvr(38) 1(01) 12(000c)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(323,LVS_O,lvs)
Token=(260,INTLIT,2)
Token=(260,INTLIT,13)
#077 class2-operation->lvs INTLIT INTLIT
lvs(39) 2(02) 13(000d)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(324,LVT_O,lvt)
Token=(260,INTLIT,6)
Token=(260,INTLIT,5)
#078 class2-operation->lvt INTLIT INTLIT
lvt(3a) 6(06) 5(0005)
#014 operation->class3-operation
#008 statement->operation
#004 item->statement

#003 list->list item

Token=(325,STI_O,sti)
Token=(328,A_T,a)
#080 type->A
#056 class1-operation->sti type
sti(3b) a(00) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(325,STI_O,sti)
Token=(329,B_T,b)
#081 type->B
#056 class1-operation->sti type
sti(3b) b(01) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(325,STI_O,sti)
Token=(330,C_T,c)
#082 type->C
#056 class1-operation->sti type
sti(3b) c(02) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(325,STI_O,sti)
Token=(331,I_T,i)
#083 type->I
#056 class1-operation->sti type
sti(3b) i(03) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(325,STI_O,sti)
Token=(332,R_T,r)
#084 type->R
#056 class1-operation->sti type
sti(3b) r(04) 0(0000)
#012 operation->class1-operation

#008 statement->operation
#004 item->statement
#003 list->list item

Token=(325,STI_O,sti)
Token=(333,S_T,s)
#085 type->S
#056 class1-operation->sti type
sti(3b) s(05) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(325,STI_O,sti)
Token=(334,T_T,t)
#086 type->T
#056 class1-operation->sti type
sti(3b) t(06) 0(0000)
#012 operation->class1-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(326,IXA_O,ixa)
Token=(260,INTLIT,4)
#064 class2-operation->ixa INTLIT
ixa(3c) 0(00) 4(0004)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(326,IXA_O,ixa)
Token=(260,INTLIT,16)
#064 class2-operation->ixa INTLIT
ixa(3c) 0(00) 16(0010)
#013 operation->class2-operation
#008 statement->operation
#004 item->statement
#003 list->list item

Token=(326,IXA_O,ixa)
Token=(260,INTLIT,1)
#064 class2-operation->ixa INTLIT
ixa(3c) 0(00) 1(0001)
#013 operation->class2-operation
#008 statement->operation

#004 item->statement

#003 list->list item

#001 program->list