```
Program → program Stmt list end . eof
Stmt_list → Stmt ; Stmt_list
              | ∈
Stmt \rightarrow id_p = Expr_q \{MOV\}_{q,p}
  | if Expr_p compare_c Expr_q \{TST\}_{p,q,c,L} \{JMP\}_L then \{LBL\}_L Stmt \{LBL\}_L L \leftarrow lalloc
   | while \{LBL\}_L Expr_p compare_c Expr_q \{TST\}_{p,q,c,L} \{JMP\}_L do \{LBL\}_L Stmt \{JMP\}_L \{LBL\}_L L \leftarrow lalloc
Expr_{D} \rightarrow Term_{Q} Moreterms_{Q,D}
Moreterms_{p,q} \rightarrow + Term_{t} \{ADD\}_{p,t,r} Moreterms_{r,q}
                                                                                                        r \leftarrow talloc
                  - Termt {SUB}p,t,r Moretermsr,q
                                                                                                        r \leftarrow talloc
                                                                                                        q \rightarrow p
Term_{p} \rightarrow Factor_{q} Morefactors_{q,p}
Morefactors_{p,q} \rightarrow *Factor_{t} \{MUL\}_{p,t,r} Morefactors_{r,q}
                                                                                                        r \leftarrow talloc
                     / Factort {DVD}p,t,r Morefactorsr,q
                                                                                                        r \leftarrow talloc
                     | div Factort {DIV}p,t,r Morefactorsr,q
                                                                                                        r \leftarrow talloc
                     mod Factort {MOD}p,t,r Morefactorsr,q
                                                                                                        r \leftarrow talloc
                        €
                                                                                                        q \leftarrow p
Factor_{p} \rightarrow Base_{p} \wedge Factor_{t} \{EXP\}_{p,t,r}
                                                                                                        r \leftarrow talloc
               Basep
Base_p \rightarrow # Value_p \{PLS\}_{p,r}
                                                                                                        r \leftarrow talloc
            ~ Valuep {NEG}p,r
                                                                                                        r \leftarrow talloc
           Valuep
Value_p \rightarrow (Expr_p)
              id_{\mathfrak{p}}
              num_D
```