```
generate [ LDL RETADR]
                generate [ RSUB]
                for each Ti variable used do
                   generate [Ti RESW
                                        1]
                insert [ J EXADDR] (jump to first executable instruction)
                   in bytes 3-5 of object program
                fix up forward references to Ti variables
                generate Modification records for external references
                generate [ END ]
generate [ START 0]
               generate [ EXTREF XREAD, XWRITE]
               generate [ STL RETADR]
               add 3 to LOCCTR {leave room for jump to first executable instruction}
               generate [RETADR
                                 RESW
<dec-list> ::= {either alternative}
                save LOCCTR as EXADDR (tentative address of first executable instruction)
<dec> ::= <id-list> : <type>
               for each item on list do
                   begin
                      remove S(NAME) from list
                      enter LOCCTR into symbol table as address for NAME
                      generate [S(NAME) RESW
                                               1]
                   end
               LISTCOUNT := 0
<type> ::= INTEGER
               {no code-generation action}
<stmt-list> ::= {either alternative}
               {no code-generation action}
```

Figure 5.20 Other code-generation routines for the grammar from Fig. 5.2.