# Applesoft: Problems with user-defined functions and CHAIN

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Security:       Everyone
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User defined functions in Applesoft may cause problems when the CHAIN command
is used.  When Applesoft encounters a DEF FN statement, an entry is made in
the simple variable table which points to the rest of the function in the
text of the program.  Strange and perhaps fatal things can happen if you use
this functon defined in the previous program without having the same image of
the function at the same memory locations.

The easy way around this problem is avoid using defined functions,
or re-define all of your defined functions in each of the chained modules.

```
 First program:                        Second program:

  5 REM  PROGRAM 1                       5 REM  PROGRAM 2
 10 DEF FN A(X)=X*X                     10 DEF FN A(X)=X*X
 20 PRINT FN A(2)                       20 PRINT FN A(2)
 30 PRINT CHR$(4);"BLOAD CHAIN,A520"    30 END
 40 CALL 520"PROGRAM 2"
```

Apple Tech Notes


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