

```

                                sourceFile_NoErrors.txt
COPY      START    1000        COPY FILE FROM INPUT TO OUTPUT
FIRST     STL      RETADR      SAVE RETURN ADDRESS
CLOOP     JSUB      RDREC      READ INPUT RECORD
          LDA       LENGTH     TEST FOR EOF (LENGTH = 0)
          COMP      ZERO
          JEQ       ENDFIL     EXIT IF EOF FOUND
          JSUB      WRREC      WRITE OUTPUT RECORD
          J         CLOOP      LOOP
ENDFIL    LDA       EOF        INSERT END OF FILE MARKER
          STA       BUFFER
          LDA       THREE      SET LENGTH = 3
          STA       LENGTH
          JSUB      WRREC      WRITE EOF
          LDL       RETADR     GET RETURN ADDRESS
          RSUB
EOF        BYTE     C'EOF'
THREE     WORD      3
ZERO      WORD      0
RETADR    RESW      1
LENGTH    RESW      1        LENGTH OF RECORD
BUFFER    RESB      4096     4096-BYTE BUFFER AREA
.
.        SUBROUTINE TO READ RECORD INTO BUFFER
.
RDREC     LDX       ZERO        CLEAR LOOP COUNTER
          LDA       ZERO        CLEAR A TO ZERO
RLOOP     TD        INPUT       TEST INPUT DEVICE
          JEQ       RLOOP      LOOP UNTIL READY
          RD        INPUT       READ CHARACTER INTO REGISTAR A
          COMP      ZERO        TEST FOR END OF RECORD (X'00')
          JEQ       EXIT        EXIT LOOP IF EOF
          STCH      BUFFER,X     STORE CHARACTER IN BUFFER
          TIX       MAXLEN      LOOP UNLESS MAX LENGTH
          JLT       RLOOP      HAS BEEN REACHED
EXIT      STX       LENGTH     SAVE RECORD LENGTH
          RSUB                RETURN TO CALLER
INPUT     BYTE     X'F1'       CODE FOR INPUT DEVICE
MAXLEN    WORD      4096
.
.        SUBROUTINE TO WRITE RECORD FROM BUFFER
.
WRREC     LDX       ZERO        CLEAR LOOP COUNTER
WLOOP     TD        OUTPUT      TEST OUTPUT DEVICE
          JEQ       WLOOP      LOOP UNTIL READY
          LDCH      BUFFER,X     GET CHARACTER FROM BUFFER
          WD        OUTPUT      WRITE CHARACTER
          TIX       LENGTH     LOOP UNTIL ALL CHARACTERS
          JLT       WLOOP      HAVE BEEN WRITTEN
          RSUB                RETURN TO CALLER
OUTPUT    BYTE     X'05'       CODE FOR OUTPUT DEVICE
          END        FIRST

```