Line **Source statement**

```
 5     COPY      START   0               COPY FILE FROM INPUT TO OUTPUT
10     FIRST     STL     RETADR          SAVE RETURN ADDRESS
12               LDB     #LENGTH         ESTABLISH BASE REGISTER
13               BASE    LENGTH
15     CLOOP     +JSUB   RDREC           READ INPUT RECORD
20               LDA     LENGTH          TEST FOR EOF (LENGTH = 0)
25               COMP    #0
30               JEQ     ENDFIL          EXIT IF EOF FOUND
35               +JSUB   WRREC           WRITE OUTPUT RECORD
40               J       CLOOP           LOOP
45     ENDFIL    LDA     EOF             INSERT END OF FILE MARKER
50               STA     BUFFER
55               LDA     #3              SET LENGTH = 3
60               STA     LENGTH
65               +JSUB   WRREC           WRITE EOF
70               J       @RETADR         RETURN TO CALLER
80     EOF       BYTE    C'EOF'
95     RETADR    RESW    1
100    LENGTH    RESW    1               LENGTH OF RECORD
105    BUFFER    RESB    4096            4096-BYTE BUFFER AREA
110    .
115    .         SUBROUTINE TO READ RECORD INTO BUFFER
120    .
125    RDREC     CLEAR   X               CLEAR LOOP COUNTER
130              CLEAR   A               CLEAR A TO ZERO
132              CLEAR   S               CLEAR S TO ZERO
133              +LDT    #4096
135    RLOOP     TD      INPUT           TEST INPUT DEVICE
140              JEQ     RLOOP           LOOP UNTIL READY
145              RD      INPUT           READ CHARACTER INTO REGISTER A
150              COMPR   A,S             TEST FOR END OF RECORD (X'00')
155              JEQ     EXIT            EXIT LOOP IF EOR
160              STCH    BUFFER,X        STORE CHARACTER IN BUFFER
165              TIXR    T               LOOP UNLESS MAX LENGTH
170              JLT     RLOOP             HAS BEEN REACHED
175    EXIT      STX     LENGTH          SAVE RECORD LENGTH
180              RSUB                    RETURN TO CALLER
185    INPUT     BYTE    X'F1'           CODE FOR INPUT DEVICE
195    .
200    .         SUBROUTINE TO WRITE RECORD FROM BUFFER
205    .
210    WRREC     CLEAR   X               CLEAR LOOP COUNTER
212              LDT     LENGTH
215    WLOOP     TD      OUTPUT          TEST OUTPUT DEVICE
220              JEQ     WLOOP           LOOP UNTIL READY
225              LDCH    BUFFER,X        GET CHARACTER FROM BUFFER
230              WD      OUTPUT          WRITE CHARACTER
235              TIXR    T               LOOP UNTIL ALL CHARACTERS
240              JLT     WLOOP             HAVE BEEN WRITTEN
245              RSUB                    RETURN TO CALLER
250    OUTPUT    BYTE    X'05'           CODE FOR OUTPUT DEVICE
255              END     FIRST
```