10	RDBUFF	MACRO &BUFADR, &RECLTH, &INDEV
15	**	
20	. •	MACRO TO READ RECORD INTO BUFFER
25	*	
30		CLEAR X CLEAR LOOP COUNTER
35		CLEAR A
40		CLEAR S
45		+LDT #4096 SET MAXIMUM RECORD LENGTH
50	\$LOOP	RDCHAR &INDEV READ CHARACTER INTO REG A
65	,	COMPR A,S TEST FOR END OF RECORD
70	y*	JEQ \$EXIT EXIT LOOP IF EOR
75		STCH &BUFADR, X STORE CHARACTER IN BUFFER
80		TIXR T LOOP UNLESS MAXIMUM LENGTH
85	18	JLT \$LOOP HAS BEEN REACHED
90	\$EXIT	STX &RECLIH SAVE RECORD LENGTH
95		MEND
	,	
, .		(a)
5	RDCHAR	MACRO &IN
10		
15	•	MACRO TO READ CHARACTER INTO REGISTER A
20	•	
25	,	TD =X'&IN' TEST INPUT DEVICE
30	*	JEQ *-3 LOOP UNTIL READY
35	·	RD =X'&IN' READ CHARACTER
40	•	MEND
	. :	

(b)

RDBUFF BUFFER, LENGTH, F1

(c)

Figure 4.11 Example of nested macro invocation.