25	RDBUFF	MACRO	&INDEV, &BUFADR, &RECL/TH	
30		CLEAR	X	CLEAR LOOP COUNTER
35		CLEAR	Α	
40		CLEAR	S	
45		+LDT	#4096	SET MAXIMUM RECORD LENGTH
50	\$LOOP	TO	=X'&INDEV'	TEST INPUT DEVICE
55		JEQ	\$LOOP	LOOP UNTIL READY
60		RD	=X'&INDEV'	READ CHARACTER INTO REG A
65		COMPR	A,S	TEST FOR END OF RECORD
70	•	JEQ	\$EXIT	EXIT LOOP IF EOR
75	:	STCH	&BUFADR,X	STORE CHARACTER IN BUFFER
80		TIXR	${f T}$	LOOP UNLESS MAXIMUM LENGTH
85		JLT	\$LOOP	HAS BEEN REACHED
90	\$EXIT	STX	&RECLTH	SAVE RECORD LENGTH
95		MEND		

(a)

	•	RDBUFF	F1, BUFFER, LEA	NGTH
30		CLEAR	X	CLEAR LOOP COUNTER
35		CLEAR	A	And the second s
40	÷ .	CLEAR	S	i.
45		+LDT	#4096	SET MAXIMUM RECORD LENGTH
50	\$AALOOP	TD	=X'F1'	TEST INPUT DEVICE
55		JEQ	\$AALOOP	LOOP UNTIL READY
60	.·	RD	=X'F1'	READ CHARACTER INTO REG A
65		COMPR	A,S	TEST FOR END OF RECORD
70	·w	JEQ	\$AAEXIT	EXIT LOOP IF EOR
75	.	STCH	BUFFER, X	STORE CHARACTER IN BUFFER
80	**	TIXR	Ţ	LOOP UNLESS MAXIMUM LENGTH
85		JLT	\$AALOOP	HAS BEEN REACHED
90	\$AAEXIT	STX	LENGTH	SAVE RECORD LENGTH

(b)

Figure 4.7 Generation of unique labels within macro expansion.