

	JSUB	READ	CALL READ SUBROUTINE
	.		
	.		
	.		
READ	LDX	ZERO	SUBROUTINE TO READ 100-BYTE RECORD
RLOOP	TD	INDEV	INITIALIZE INDEX REGISTER TO 0
	JEQ	RLOOP	TEST INPUT DEVICE
	RD	INDEV	LOOP IF DEVICE IS BUSY
	STCH	RECORD,X	READ ONE BYTE INTO REGISTER A
	TIX	K100	STORE DATA BYTE INTO RECORD
	JLT	RLOOP	ADD 1 TO INDEX AND COMPARE TO 100
	RSUB		LOOP IF INDEX IS LESS THAN 100
	.		EXIT FROM SUBROUTINE
	.		
INDEV	BYTE	X'F1'	INPUT DEVICE NUMBER
RECORD	RESB	100	100-BYTE BUFFER FOR INPUT RECORD
			ONE-WORD CONSTANTS
ZERO	WORD	0	
K100	WORD	100	

(a)

	JSUB	READ	CALL READ SUBROUTINE
	.		
	.		
	.		
READ	LDX	#0	SUBROUTINE TO READ 100-BYTE RECORD
	LDT	#100	INITIALIZE INDEX REGISTER TO 0
RLOOP	TD	INDEV	INITIALIZE REGISTER T TO 100
	JEQ	RLOOP	TEST INPUT DEVICE
	RD	INDEV	LOOP IF DEVICE IS BUSY
	STCH	RECORD,X	READ ONE BYTE INTO REGISTER A
	TIXR	T	STORE DATA BYTE INTO RECORD
	JLT	RLOOP	ADD 1 TO INDEX AND COMPARE TO 100
	RSUB		LOOP IF INDEX IS LESS THAN 100
	.		EXIT FROM SUBROUTINE
	.		
	.		
INDEV	BYTE	X'F1'	INPUT DEVICE NUMBER
RECORD	RESB	100	100-BYTE BUFFER FOR INPUT RECORD

(b)