시스템프로그래밍 (2020년도) HW #8 Loader

1	학번 _	201804r	<u> 74</u>	출석번호	113	이름	占时		
Relocatable Program for a SIC (Fig 3.6)									
5 10 15 20 25 30 35 40 45		0000 0000 0003 0006 0009 000C 000F 0012	COPY FIRST CLOOP	START STL JSUB LDA COMP JEQ JSUB J LDA	0000 RETADR RDREC LENGTH ZERO ENDFIL WRREC CLOOP EOF	140033 481039 000036 280030 300015 481061 3C0003 00002A	FFC		
50 50 50 50 65 70 75 85 90 95	(0018 001B 001E 0021 0024 0027 002A 002D 0030	EOF THREE ZERO RETADR	STA LDA STA JSUB LDL RSUB BYTE WORD WORD RESW	BUFFER THREE LENGTH WRREC RETADR C'EOF' 3 0	00002D 00002D 000036 481061 080033 4C0000 454F46 000003 000000	े १८ भन्भाय ० k		
100 105 110		0033 0036 0039	LENGTH BUFFER	RESW RESB	1 4096	1110 000 E 0	00 0000 D		
115		SUBROUTINE TO READ RECORD INTO BUFFER							
120 125 130 135 140 145 150 165 170 185 190 205 210 225 230 245 255	/1	1039 103C 103F 1042 1045 1048 104E 1051 1054 1057 105A 105D 105E 1061 1064 1067 106A 106D 1070 1073 1076 1079	WRREC WLOOP 7A 61 79 OUTPUT 107A	LDX LDA TD JEQ RD COMP JEQ STCH TIX JLT STX RSUB BYTE WORD E TO WRITE REC LDX TD JEQ LDCH WD TIX JLT RSUB BYTE Q LDCH RSUB BYTE D LDCH RSUB B	ZERO OUTPUT WLOOP BUFFER,X OUTPUT LENGTH WLOOP X'05' FIRST	040030 000030 E0105D 30103F D8105D 280030 301057 548039 2C105E 38103F 100036 4C0000 F1 001000 F1 001079 301064 508039 DC1079 2C0036 381064 4C0000 05	1000 + 8 1111 1110 0000 F E 0		
HCOP	Y	000000001							
TOOOOOO E FFC 140033 481079 000076 280070 300015 481061 300003 00002A 000039 00002D TOOOOE 15 EOO 000076 481061 080033 400000 454546 000003 000000 TOO! 059 0A 800 100036 40000 F1 001000 TOO! 061 19 FED 040070 E01099 301064 508039 001099 200076 781064 40000 05									
E QOQOOO									

Program Linking (Fig 3.8)

0000	PROGA	START EXTDEF EXTREF	0 LISTA, ENDA LISTB, ENDB, LISTC, ENDC	ni xbpr 0 000011 0010
		•	_	0 000011 0010
0020	REF1	LDA	LISTA Xbpe	03201D
0023	REF2	+LDT	LISTB+4 0/// 0/// 0001	77(100004)
0027	REF3	LDX	#ENDA-LISTA	050-014
		. 04		G 7 0 - 6 + 7 -
0040	LISTA	EQU	*	
		•		
0054	ENDA	EQU	*	
0054	REF4	WORD	ENDA-LISTA+LISTC 54-40	<u>_000014_</u>
0057	REF5	WORD	ENDC-LISTC-10 0-f	FEETT 6
005A	REF6	WORD	ENDC-LISTC+LISTA-1 40-1	00003E_
005D	REF7	WORD	ENDA-LISTA-(ENDB-LISTB)	000014
0060	REF8	WORD	LISTB-LISTA — 40 ECO	F-E-F-CO_
		END	REF1	
0000	DDOGD	CMADM	0	
0000	PROGB	START EXTDEF	LISTB, ENDB	
		EXTREF	LISTA, ENDA, LISTC, ENDC	
		·	HISTA, ENDA, HISTC, ENDC	
		•	l n	6210000
0036	REF1	+LDA	LISTA bV	0310000
003A	REF2	LDT	LISTA 60 LISTB+4 -3D #ENDA-LISTA 23	<u> </u>
003D	REF3	+LDX	#ENDA-LISTA -02	<u>D51 00000</u>
	•		7-1	
0060	LISTB	EQU	*	
	•	_		
0070	ENDB	EQU	*	
0070	REF4	WORD	ENDA-LISTA+LISTC	000000
0073	REF5	WORD	ENDC-LISTO-10 -(-A)	000000 FFFF 6
0076	REF6	WORD	ENDC-LISTC+LISTA-1	- ttt -
0079	REF7	WORD	ENDA-LISTA-(ENDB-LISTB)-/0	-1
007C	REF8	WORD	LISTB-LISTA	_EEEFE0_ _000160_
	END			
0000	PROGC	START	0	
		EXTDEF	LISTC, ENDC	
		EXTREF	LISTA, ENDA, LISTB, ENDB	
		•		
0018	REF1	+LDA	LISTA	<u> </u>
001C	REF2	+LDT	LISTB+4	771000 <i>0</i> 4
0020	REF3	+LDX	#ENDA-LISTA	D5100000_
	•			•
0030	LISTC	EQU	*	
0030		720		
0010	•			
0042	ENDC	EQU	*	<i>በለበ</i> ስኒካ
0042	REF4	WORD	ENDA-LISTA+LISTC	100070 -
0045	REF5	WORD	ENDC-LISTC-10 $\triangle \rightarrow /2 - A$	<i>000</i> 030 <u>00007</u> 00007
0048	REF6	WORD	ENDC-LISTC+LISTA-1 /2~/~//	<u> </u>
004B 004E	REF7	WORD WORD	ENDA-LISTA-(ENDB-LISTB)	<u> </u>
UU4E	REF8	WORD END	LISTB-LISTA	
		END		

Object Program of PROGA

```
DLISTA (MOVID ENDA DOUGY)

RLISTB ENDB LISTC ENDC:

T 00020 6A 0320 | D 77/0000 40500/4

:
T 000054 OF 0000 (4 TITTE 0000) F 0000 (4 FFFFCO)

M 00024 OF +LISTD

M 000054 OB +LISTC

M 00005A OB -LISTC

M 00005A OB -LISTB

M 00005D OB -LISTB

M 00006D OB - PROGA
```

E000020