

IBM

H. Kolsky
Dept 910
Proj. 022-40,000

SHARE SYMBOLIC CODING FORM

FORM 12-6809-1

PROBLEM															
CODER										DATE		PAGE		OF	
H		LOCATION			OP			ADDRESS, TAG, DECREMENT				COMMENTS		IDENTIFICATION	
1	2	6	7	8	10	11	12					72	73	80	D
		ST2		LXD			TC, 1								
		DB		CLA			0, 1		LOC		AI IN X1				AI HTR OPCODE, 0, -AI+1
				PDX			0, 2		LOC		AI+1 IN X2				
				PAX			0, 4		OPCODE		IN X4				
				SXD			JB, 2		STORE		AI+1				
				TRA			0, 4		TR TO OP						
		AND		TXI			JH1, 1, 3		LOGICAL AND						-(Ai-3)
		JH1		SXD			BL1, 1								
				CLA			1, 2				$I_{im} = +1 - (-A_{i+1})$				
				PAX			0, 4				$-A_{im+2} \rightarrow X4$				
				CAL			0, 4				Gen Tj				
				SLW			NG								Temp.
				TXI			HM1, 2, -1				$I_{im-1} = (-I_{im}) - 1$				
		HM1		CLA			1, 2				$+1 + I_{im-1}$				
				PAX			0, 4				$-A_{im-1} + (2) \rightarrow X4$				
				CAL			NG								
				ANA			0, 4								
				SLW			NG								
				TXI			BL1, 2, -1				$(A_{i+1} + m)$				
		BL1		TXH			HM1, 2, 0				$D = -(A_{i-3})$				$X = -(A_{i+1} + m)$
				SLW			0, 2								
				LXD			JB, 1				STORE ANSWER IN OI				
				TRA			DB				AI+1 IN X1				

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CODER <i>J. Coche</i>						DATE <i>May 5, '58</i>			PAGE <i>3</i> OF		
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1	2	6	7	8	10	11	12		72	73	80
			PAX		0,4						
			CAL		NG						
			ORA		0,4		A+B				
			SLW		LG			Temp.			
			CAL		NG						
			ANA		0,4		A.B				
			COM		0		NOT A.B				
			ANA		LG		(A+B).(NOT A.B)				
			SLW		NG						
			TXI		BL3,2,-1						
	BL3		TXH		HM3,2,0						
			SLW		0,2		STORE ANSWER				
			LXD		JB,1						
			TRA		DB						
	DEL		CAL		-1,2		DELAY	(+ADD)+1			
			PAX		0,1						
			CAL		0,1						
			SLW		+2,2		STORE ANSWER				
			LXD		JB,1						
			TRA		DB						
	ADV		SXD		LG,1		ADVANCE OUTPUTS TO T AND C				Store Loc (45)
			CAL		-3,2						
			SLW		-2,2		0 TO T				
			COM		0						
			SLW		-1,2		NOT 0 TO C				

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1	2	6	7	8	10	11	12						72	73	80
					CLA		0, 2								
					PDX		0, 2	AI+1	TO	X	2		x ≤ D		
					PXD		0, 2						(A _{in}) ≤ (-A _{dr})		
					SUB		LG	TEST	IF	THRU					
					TNZ		ADV+1								
	OUT				PDX		0, 0	PREPARE	PRINT	LINE					
					SWT		1	SW 1	DOWN	NO	PRINT				
					CLA		L1								
					STO		PBIT								
					CLA		L1								
					SWT		2	SW 2	DOWN	NO	TAPE				
					CLA		L0								
					STO		TBIT								
					TZE		JC								
					CLA		PBIT								
	JC				TZE		DEC	SKIP	ALL	I/O					
					EXD		0, 0	SET	UP	PRINT	LINE				
					SLW		NG								
					LXD		L6, 2								
					LXD		L0, 5								
								PE	CLA	PTBL, 1					
	SE				CLA		0	SUB	TC2						
					TZE		BE	TMI	PE1						
					LDR		ONE	SUB	LX2						
	SET				CAL		NG	PE1	ADD	TC2					
								STA	SE						

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					LGL		6									
					SLW		NG									
					TIX		HE, 2, 1									
					SLW		PBLK, 4	STORE PRINT WORD.								
					TXI		JE, 4, 1									
				JE	TXH		HK, 4, 19	TR OUT TO PRINT								
					LXD		L6, 2									
				HE	CLA		PTBLK+1, 1									
					TZE		BET	TEST IF END OF PRINT TABLE								
					TXI		PE, 1, 1									
				BE	LDR		ZERO									
					TRA		SET									
				BET	LDR		BLNKS									
					TRA		SET									
				HK	CLA		MARK									
					ADD		LI									
					STO		NG									
					PXD		0, 0									
					LDR		NG									
					DVH		L10									
					STO		MARK									
					PDX		0, 1									
					CAL		PBLK+19									
					LRS		6									
					LDR		MKBLK, 1									

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1	2	6	7	8	10	11	12					72	73	80		
	L1					HTR	0, 0, 1									
	L0					HTR	0									
	TBIT					BSS	1									
	PBIT					BSS	1									
	LG					BSS	1									
	NG					BSS	1									
	JB					BSS	1									
	ONE					BCD	11									
	ZERO					BCD	10									
	L6					HTR	0, 0, 6									
	LX2					HTR	2									
						BCD	19									
						BCD	18									
						BCD	17									
						BCD	16									
						BCD	15									
						BCD	14									
						BCD	13									
						BCD	12									
						BCD	11									
	MKBLK					BCD	10									
	PBLK					BSS	20									
	TC					HTR	0, 0, -A1									
	HDI					BCD	OPROJ 7000 LOGIC SIMULATOR COCKEY + WOLSKY MAY 58									
	Z1					OCT	-377777777									
	TC1					HTR	ADV									

