

ASM

**END OF PASS 1

**END OF PASS 2

0800		1		ORG \$0800	
0800	20 58 FC	2	START	JSR \$FC58	; Clear screen
0803	20 2D 08	3		JSR INITBNM	
0806	A2 00	4		LDX #0	
0808	20 3A 08	5	LOOP	JSR CALCTRM	
080B	20 75 08	6		JSR MULFOUR	
080E	8A	7		TXA	
080F	29 01	8		AND #1	
0811	F0 06	9		BEQ DOADD	
0813	20 9E 08	10		JSR DOSUB	
0816	4C 1C 08	11		JMP NEXTK	
0819	20 8E 08	12	DOADD	JSR ADDTMP	
081C	E8	13	NEXTK	INX	
081D	E0 0A	14		CPX #10	
081F	D0 04	15		BNE DOTOUT	
0821	20 AE 08	16		JSR PRNDIG	
0824	60	17		RTS	
0825	A9 2E	18	DOTOUT	LDA #'. '	
0827	20 ED FD	19		JSR \$FDED	
082A	4C 08 08	20		JMP LOOP	
082D	A0 00	21	INITBNM	LDY #0	
082F	A9 00	22	CLRA	LDA #0	
0831	99 00 04	23		STA \$0400,Y	
0834	C8	24		INY	
0835	C0 40	25		CPY #64	
0837	D0 F6	26		BNE CLRA	
0839	60	27		RTS	
083A	8A	28	CALCTRM	TXA	
083B	8D ED 08	29		STA TEMP	
083E	0E ED 08	30		ASL TEMP	
0841	AD ED 08	31		LDA TEMP	
0844	18	32		CLC	
0845	69 01	33		ADC #1	
0847	8D EA 08	34		STA DIVSOR	
084A	A0 00	35		LDY #0	
084C	A9 00	36	CLRTMP	LDA #0	
084E	99 00 05	37		STA \$0500,Y	
0851	C8	38		INY	
0852	C0 40	39		CPY #64	
0854	D0 F6	40		BNE CLRTMP	
0856	A9 01	41		LDA #1	
0858	8D 00 05	42		STA \$0500	
085B	A0 00	43		LDY #0	
085D	A9 00	44	DIVLOP	LDA #0	
085F	85 86	45		STA \$86	; ZPHI
0861	B9 00 05	46		LDA \$0500,Y	
0864	85 85	47		STA \$85	; ZPLO
0866	AE EA 08	48		LDX DIVSOR	
0869	20 C1 08	49		JSR DIVSR	
086C	99 00 05	50		STA \$0500,Y	
086F	C8	51		INY	
0870	C0 40	52		CPY #64	
0872	D0 E9	53		BNE DIVLOP	
0874	60	54		RTS	
0875	A0 3F	55	MULFOUR	LDY #63	
0877	18	56		CLC	
0878	B9 00 05	57	MULLOP	LDA \$0500,Y	
087B	8D ED 08	58		STA TEMP	
087E	0E ED 08	59		ASL TEMP	
0881	0E ED 08	60		ASL TEMP	
0884	AD ED 08	61		LDA TEMP	

LISA 2.5

0887	99	00	05	62		STA	\$0500,Y
088A	88			63		DEY	
088B	10	EB		64		BPL	MULLOP
088D	60			65		RTS	
088E	A0	3F		66	ADDTMP	LDY	#63
0890	18			67		CLC	
0891	B9	00	05	68	ADDLOP	LDA	\$0500,Y
0894	79	00	04	69		ADC	\$0400,Y
0897	99	00	04	70		STA	\$0400,Y
089A	88			71		DEY	
089B	10	F4		72		BPL	ADDLOP
089D	60			73		RTS	
089E	A0	3F		74	DOSUB	LDY	#63
08A0	38			75		SEC	
08A1	B9	00	04	76	SUBLOP	LDA	\$0400,Y
08A4	F9	00	05	77		SBC	\$0500,Y
08A7	99	00	04	78		STA	\$0400,Y
08AA	88			79		DEY	
08AB	10	F4		80		BPL	SUBLOP
08AD	60			81		RTS	
08AE	AD	00	04	82	PRNDIG	LDA	\$0400
08B1	C9	0A		83		CMP	#10
08B3	B0	06		84		BCS	BADOUT
08B5	69	30		85		ADC	#\$30
08B7	20	ED	FD	86		JSR	\$FDED
08BA	60			87		RTS	
08BB	A9	3F		88	BADOUT	LDA	#`?`
08BD	20	ED	FD	89		JSR	\$FDED
08C0	60			90		RTS	
08C1	8E	EB	08	91	DIVSR	STX	NUMDV
08C4	A0	10		92		LDY	#16
08C6	A9	00		93		LDA	#0
08C8	8D	EC	08	94		STA	QUOT
08CB	06	85		95	DIVLP2	ASL	\$85
08CD	26	86		96		ROL	\$86
08CF	2E	EC	08	97		ROL	QUOT
08D2	38			98		SEC	
08D3	A5	86		99		LDA	\$86
08D5	ED	EB	08	100		SBC	NUMDV
08D8	90	05		101		BCC	SKPDIV
08DA	85	86		102		STA	\$86
08DC	EE	EC	08	103		INC	QUOT
08DF	88			104	SKPDIV	DEY	
08E0	D0	E9		105		BNE	DIVLP2
08E2	AD	EC	08	106		LDA	QUOT
08E5	8D	E9	08	107		STA	REMAIN
08E8	60			108		RTS	
08E9	00			109	REMAIN	BYT	0
08EA	00			110	DIVSOR	BYT	0
08EB	00			111	NUMDV	BYT	0
08EC	00			112	QUOT	BYT	0
08ED	00			113	TEMP	BYT	0
08EE				114		END	

***** END OF ASSEMBLY

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