F3		MAC MAC	GATES/ALLEN/DAVIDOFF 6#SEP=64 Ø3:11		MACRO 47(113) 03:12 10-SEP-75 PAGE 17 PRINT CODE							
	3740				54400	SUBTTL	PRINT CO	DE				
	3742				54440	IFN	LPTSW. <					
	3743											
	3744				54460	LPRINT:	STA	A, 1	SAY NON ZERO			
				000000		ALCOHOLD .		PRTFLG>	SAVE AWAY			
	3745	004407			54500	NEWCHR:		н				
	3746	004410		000327	54520	MORPR:			GET ANOTHER CHARACTER			
	3747	004411			54540	PRINT:	JZ	CRDO	IF WE SEE A TERMINATOR			
	3748	004412*		004523								
	3749	004413	000000	004405*								
	3750				54560				JGO TYPE A CRLF			
	3751	004414	001000	000310	54580	PRINTC:	RZ		THERE AFTER SEEING TAB(X) OR , OR ;			
	3752				54600				IN WHICH CASE A TERMINATOR DOES NOT			
	3753				54620				MEAN WE SHOULD TYPE A CRLF			
	3754				54640				JBUT JUST RETURN			
	3755				54660	IFE	STRING,	<				
	3756				54680		CPI	34	A TERMINATING QUOTE?			
	3757				54700		CZ	STROUI				
	3758				54720		JZ	NEWCHR>	; A QUOTATION JUST PRINT IT			
	3759	004415		000376	54740		CPI	TABTK				
	3760	004416		000240								
	3761	004417	001000	000312	54760		JZ	TABER	THE TAB FUNCTION?			
	3762	004420	000000	004577								
	3763	004421*	000000	004412*								
	3764				54780	IFN	LENGTH.	<				
	3765	994422	001000	000376	54800		CPI	SPCTK				
	3766	004423*		000242								
	3767	004424	001000	000312	54820		JZ	TABER>	THE SPC FUNCTION?			
	3768	0044251		004577*					,			
	3769	004426		004420								
	3770	004427			54840		PUSH	н	SAVE THE TEXT POINTER			
	3771	004430*			54860		CPI	44	70072 100 1007 1007			
	3772	004431*		000054								
	3773	004432*			54880		JZ	COMPRY	IIS IT A COMMA?			
	3774	004433*		004553*	21000			40	710 11 11 00111111			
	3775			004425*								
	3776	004435		000376	54900		CPI	59	IS IT A ";"			
	3777	004436		000073	34,00		•		,			
	3778	004437		000312	54920		JZ	NOTABR				
	3779	004440		004637	34760							
	3780	004441		004433*								
	3781	004442		000301	54940		POP	В	IGET RID OF OLD TEXT POINTER			
	3782	0044431		000315	54960		CALL	FRMEVL	BACK UP ONE CHARACTER AND READ THAT ONE			
	3783	004444		005336	34700				A DUCK OF CHANACIEN AND MEND INNI ONE			
	3784	004445		004440'								
	3785	204443	200000	OD444D.	54980				JAGAIN SO THE CONDITION CODES ARE RIGHT			
	3786				55000				EVALUATE THE FORMULA			
	3787	004446	antaga	000053	55020		DCX	н	BACKUP FROM TERMINATOR			
	3788		001000				PUSH	H				
		884447	001000	000343	55040	TEN			SAVE TEXT POINTER			
	3789				55060	IFN IFE	STRING,					
	3790			000715	55062	TLE	LENGTH-		ACCOUNT OF HAVE A CERTIC			
	3791	004450		000315	55064		CALL	GETYPE	SEE IF WE HAVE A STRING			
	3792	004451	000000	006307								

3	MCS 8080		LLEN/DAVIDOFF	PRINT			SEP=75 PAGE 17=1	
3793	004452*	000000	004444*					
3794	0044531		000312	55066		JZ	STRUON>	IIF SO, PRINT SPECIALY
3795	004454	999999	004507					
3796			004451					
3797				55068	IFN	LENGTH-		
3798				55080		LDA	VALTYP	
3799				55100		ORA	A	
3800				55120		JNZ	STRDON>>	WAS IT A STRING FORMULA?
3801	004456*	001000	000315	55140		CALL	FOUT	MAKE A NUMBER INTO A STRING
3802			000000×	33140		OHEL		THATE A HONDEN THIS A CINTAG
3803			004454*					
3804	224400	999999	864434	55160	IFE	STRING,	CALL STROUTS	FIF STRINGS OFF JUST OUTPUT IT
3805				55180	IFN	STRING,		TIE STRINGS OFF JUST OUTFUL IT
		001000	202715		TEM			THINE IN A STOLLE
3806			000315	55200		CALL	STRLIT	MAKE IT A STRING
3807	004462		007637					
3808			004457*	55220			F. C. C	LOST THE DOTHES
3809			000052	55220		LHLD	FACLO	IGET THE POINTER
3810			001637					
3611	004466	000000	004462*					
3812				55240	IFN	LPTSW, <		
3813				55260		LDA	PRTFLG	
3814				55280		DRA	A	
3815				55300		JZ	ISTTY	ILPT OR TTY?
3816				55320		LDA	LPTPOS	
3817				55340		ADD	м	
3818				55360		CPI	LPTLEN	WILL THIS NUMBER OVERLAP?
3819				55380		JMP	LINCHK	
3820				55400	ISTTY:>			
3821	004467		000072	55420		LDA	TTYPOS	ISEE WHERE WE ARE
3855	004470		000047 *					
3823		000000	004465*					
3824	004472	001000	000206	55440		ADD	м	ADD THIS LENGTH
3825	0044730	001000	000376	55460		CPI	LINLEN	SEE IF GREATER THAN THE LINE LENGTH
3826	004474*	000000	000110					
3827			004474*	55480	LINPT3==	::.=1		
3828	004475	001000	000324	55500	LINCHK:	CNC	CRDO	; IF SO CRLF
3829	004476*	000000	004523*					
	004477		004470					
3831	004500*	001000	000315	55520		CALL	STRPRT>	PRINT THE NUMBER
3832			007746					
3833			004476*					
3834			000076	55540		MVI	A," "	ALWAYS END WITH A SPACE
3835			000040					
3836			000337	55560		OUTCHR		
3837				55580	IFN	STRING,		
3838				55590	IFE	LENGTH-		
3839	004506*	001000	000267	55595		ORA	A	TURN OFF THE ZERO FLAG
3840	004507*		000314	55597	STROON:		STRPRT>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3841	004510		007746*	22311			• 1	
3842			004501*					
3643	004211.	000000	004201	55598	IFN	LENGTH-		
3844				55599	47.14	XRA	· ·	
3845				55600	STRDON:		STRPRT>>	JUST PRINT STRINGS
				DODEC	SIKDON:	CIVE.	OINFRI	AND I LUINI SIKINGS

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			LLEN/DAVIDOFF			3:12 10=	SEP=75 PAGE 17-2	
F 3	MAC	6=SEP=	64 03:11	PRINT	CODE			
3846	004512*	001000	000341	55620		POP	н	
3847	0045131	001000	000303	55640		JMP	MORPR	PRINT SOME MORE
3848	004514	000000	004410*					
3849			004510*					
3850			000066	55660	FININL:	MVI	M, Ø	IPUT A ZERO AT THE END OF BUF
3851	004517		000000					
3852			000041	55680		LXI	H. BUFMIN	SETUP POINTER
3853			001430	33000			,	TOCTOR POZNIEN
3854			004514*					
3855	004366	000000	004514	55700	CRDO:	IFN	LPTSW. <	
3856				55720	CKDO.	LDA	PRTFLG	
3857				55740		ORA	A	
3858				55760		JNZ	PRINTW>	
3859	0045231	201000	000076	55780				
				33/00		MVI	A, 13	
3860			000015	25000			TTWDOS	
3861	004525		000065	55800		STA	TTYPOS	MAKE TTYPOS LESS THAN LINE LENGTH
3862			000047					
3863	004527	999999	004521*					
3864				55820				ISO CROO DOESN'T GET CALLED AGAIN
3865			000337	55840		OUTCHR		
3866			000076	55860		MVI	A,10	
3867	004532		000012					
3868	004533*	001000	000337	55880		OUTCHR		
3869	004534*	001000	000072	55900	CRFIN:	LDA	NULCNT	GET NUMBER OF NULLS
3870	004535*	000000	000046					
3871	004536*	000000	004526*					
3872	004537*	001000	000075	55920	PRTNUL:	DCR	A	
3873			000062	55940		STA	TTYPOS	JEVENTUALLY SETUP TTYPOS=0
3874			000047*					
3875			004535*					
3876			000310	55960		RZ		; ALL NULLS DONE [A] =0
3877				55980				SOME ROUTINES DEPEND ON CROO
3878				56000				JAND CRFINS RETURN (A) =0 AND Z TRU
3879	004544*	801888	000365	56020		PUSH	PSW	ISAVE THE COUNT
3880			000257	56040		XRA	A	;[A] = A NULL
3881			000337	56060		DUTCHR	-	ISEND IT OUT
3882			000361	56080		POP	PSW	RESTORE THE COUNT
3883			000303	56100		JMP	PRINUL	LOOP PRINTING NULLS
3884			004537	30100		a rir		LEGG. LUTHITUD HOLLS
3885			004541					
3886		000000	004341	56120	IFE	STRING,		
3887							Н	
				56140	STROUI:			
3888				56160	STROUT:		A,M	
3889				56180		ORA	A	CHECK FOR END OF LINE
3890				56200		RZ		LET IT END THAT WAY
3891				26550		INX	Н	
3892				56240		CPI	34	JA TERMINATING GUDTE?
3893				56260		RZ		DONE IF SO
3894				56280		OUTCHR		PRINT THE CHARACTER IN [A]
3895				56300		CPI	CR	JIF IT'S A CARRIAGE RETURN
3896				56320		CZ	CROO	ITYPE LINE-FEED AND SET (TTYPOS) =0
3897				56340		JMP	STROUT>	PRINT MORE CHARACTERS
3898								

	MCS 8080		LLEN/DAVIDOFF		47(113) 0	3:12 10-	SEP-75 P	AGE 17=3
3	MAC	6=SEP=	64 03:11	PRINT	CODE			
3899				56380	COMPRT:	IFN	LPTSW. <	
3900				56400		LDA	PRTFLG	JOUTPUT TO THE LINE PRINTER?
3901				56420		DRA	A	INON-ZERO MEANS YES
3902				56440		JZ	ISCTTY	INO, DO TELETYPE COMMA
3903				56460		LDA	LPTPOS	GET LINE PRINTER POSITION
3904				56480	NI PROCE			D>-1>*CLMWID>; POSITION BEYOND WHICH THERE ARE
3905				56500	MEFFUSE		ENTERNI	INO MORE COMMA FIELDS, SO
3906				56520		CPI	NLPPOS	COMMA JUST DOES A "CROO"
3907						JMP	CHKCOM	
				56540			CHKCUH	JUSE TELETYPE CHECK
3908				56560	ISCTTY:			
3909			000072	56580		LDA	TTYPOS	GET TELETYPE POSITION
3910			000047					
3911		000000	004551					
3912			000070	56600	NUTPOS=	=<< <linl< td=""><td>EN/CLMWI</td><td>D&gt;=1&gt;*CLMWID&gt;; POSITION BEYOND WHICH THERE ARE</td></linl<>	EN/CLMWI	D>=1>*CLMWID>; POSITION BEYOND WHICH THERE ARE
3913				56620				IND MORE COMMA FIELDS
3914	004556	001000	000376	56640		CPI	NUTPOS	ISO ALL COMMA DOES IS A "CROO"
3915		000000	000070					
3916			004557	56660	LINPT4=	=:.=1		FIXED UP BY "TERMINAL WIDTH" QUESTIO
3917	004560*	001000	000324	56680	CHKCOM:	CNC	CRDO	TYPE CRLF
3918	004561	000000	004523*					
3919			004554*					
3920			000322	56700		JNC	NUTABR	JAND QUIT IF BEYOND THE LAST COMMA FI
3921			004637					
3922			004561*					
3923			000326	56720	MORCOM:	SILT	CLMWID	JGET (A) MODULUS CLMHID
3924			000016	JUILE		001	CEITHAD	ART IN HODDEDO CENTED
3925			000322	56740		JNC	MORCOM	
3926			004566	30740		3110	Honcon	
3927			004564*					
3928			000057	56760		CMA		WE WANT TO FILL
		001000	000001	56780		LNA		
3929				56800				THE PRINT POSITION OUT
3930								ITO AN EVEN CLMWID, SO
3931				56820				WE PRINT CLMWID- (A) MOD CLMWID SPACE
3932			000303	56840		JMP	SAPAS	GO PRINT (A)+1 SPACES
3933			004626					
3934		000000	004571					
3935								
3936				56880	TABER:			
3937		001000	000365	56900	IFN	LENGTH,		PSW>   REMEMBER IF [A] =SPCTK OR TABTK
3938				56920	IFE	LENGTH,	<	
3939				56940		CALL	INTIDX>	; INTEGERIZE A FORMULA INTO (D,E)
3940				56960	IFN	LENGTH,		
3941		001000	000315	56980		CALL	GTBYTC>	GET VALUE INTO (E)
3942			011017					
3943			004575*					
3944			000317	57000		SYNCHK	")"	
3945			000051					
3946			000053	57020		DCX	н	
3947	22.4063		000000	57040	IFN	LENGTH,		
3948	004606*	801000	000361	57060	**	POP	PSW	JGET BACK SPCTK OR TABTK
3949			000376	57080		CPI	SPCTK>	JWAS IT SPCTK?
3950			000242	3,000		0.1	OF CINE	AND II OFFICE
2220		001000	000242	57100		PUSH	н	ISAVE THE TEXT POINTER
3951								

3	MAC		LLEN/DAVIDOFF 64 03:11	PRINT		3:12 10=	SEP=75 PAGE 17-	.4
-		0-061-	04 05.11		LODE			
3952				57120	IFN	LENGTH,		
3953		001000		57140		MOV	A,E	FOR "SPC" PUT THE FORMULA
3954	904613			57160		JZ	ASPAC>	IVALUE IN [A]
3955	004614							
3956	004615	000000	004601*					
3957				57180	IFN	LPTSW, <		
3958				57200		LDA	PRTFLG	;LINE PRINTER OR TTY?
3959				57220		ORA	A	INON-ZERO MEANS LPT
3960				57240		JZ	TTYIST	
3961				57260		LDA	LPTPOS	GET LINE PRINTER POSITION
3962				57280		JMP	DOSIZT>	
3963	004616			57300	TTYIST:	LDA	TTYPOS	GET TELETYPE PRINT POSITION
3964	004617	000000						
3965	004620	909000	004614*					
3966	004621			57320	DOSIZT:	CMA		PRINT [E] = [A] SPACES
3967	004622*	001000	000203	57340		ADD	E	
3968	004623*	001000	000322	57360		JNC	NOTABR	; IF NEGATIVE, DON'T PRINT ANY
3969	004624	000000	004637					
3970	004625*	000000	004617					
3971				57380				ISPACES
3972	004626	001000	000074	57400	ASPA2:	INR	A	
3973	004627	001000	000107	57420	ASPAC:	MOV	B . A	(B) = NUMBER OF SPACES TO PRINT
3974	004630	001000	000076	57440		MVI	A . " "	I (A) = SPACE
3975	004631							
3976	004632	001000	000337	57460	REPOUT:	OUTCHR		PRINT (A)
3977	004633*	001000	000005	57480		DCR	8	DECREMENT THE COUNT
3978	004634*	001000	000302	57500		JNZ	REPOUT	
3979	004635*	000000	004632*					
3980	004636	000000	004624*					
3981	004637*	001000	000341	57520	NOTABR:	POP	н	PICK UP TEXT POINTER
3982	004640*	001000	000327	57540		CHRGET		JAND THE NEXT CHARACTER
3983		001000		57560		JMP	PRINTC	JAND SINCE WE JUST PRINTED
3984	004642	999999	004414*					
3985		999999						
3986				57580				; SPACES, DON'T CALL CROO
3987				57600				IF IT'S THE END OF THE LINE
3988				57620	PAGE			The same of the same

BASIC MCS 8080 GATES/ALLEN/DAVIDOFF MACRO 47(113) 03112 10-SEP-75 PAGE 18

F3		MAC	6=SEP=	64 03:11	INPUT A	NO READ	CODE		
3	989				57640	SUBTTL	INPUT AND	READ CODE	
	990				57660	IFN	LENGTH, <		
	991	004644	000000	000077	57680			FROM START"	
	992	004645*		000122					
	993	004646*		000105					
	994	004647		000104					
	995		000000						
	996	004651		000040					
	997	004652		000106					
	998	004653		251000					
	999	004654		000117					
	000	004655		000115					
	001	004656		000040					
	500	004657		000123					
	003	004660		000124					
. 4	004	004661		000101					
4	005	004662		000122					
	006	004663		000124					
	007	0046631		000324					
	899	004664		000015	57700		ACRLF		
	009		000000						
	010		000000		57720		0		
	011				57740	,			
	012				57760	I HERE	NHEN THE	DATA THAT WAS	TYPED IN OR IN "DATA" STATEMENTS
	013				57780				"INPUT" WE START AGAIN.
	014				57800				ERROR AT THE DATA LINE
	015				57820	1			
	016	004667*	001000	000072	57840	TRMNOK:	LDA	FLGINP	WAS IT READ OR INPUT?
	017	004670		001602*					
	018	004671		004642*					
4	019	004672*		000267	57860		ORA	A	:ZERO=INPUT
4	020	0046731	001000	000302	57880		JNZ	DATSNE	GIVE ERROR AT DATA LINE
	021	004674*		002064*					
4	055	004675	999999	004670*					
	023				57900		POP	8	GET RID OF THE POINTER INTO THE VARIABLE LIST
	024	004676	001000	000301					
	025	004677		000041	57920		LXI	H, TRYAGN	
	026	004700		004644*			1000000		
	027	004701		004674*					
	850	004702		000315	57940		CALL	STROUT	PRINT "PREDO FROM START"
	029	004703		007743					
	030		000000						
	031	004705		000052	57960		LHLD	TEMP	START ALL OVER BY GOING BACK
	032		000000		000				7011111 100 01011 11 10011
	033		000000						
	034	004710		000311	57980		RET>		ITO NEWSTT POINTING AT THE START OF
	035	00-1110	001000	000011	57982				JOF THE "INPUT" STATEMENT
	036	004711			58000	INPUT:			70
	037				58020	IFN	LENGTH, <		
	038	004711	001000	000376	58040			34	; IS IT A GUOTE?
	039	004712		000042	30070				
	040			3-00	58060	IFN	CONTRW, <		
	041	0047131	001000	000076	58080			A.0	JBE TALKATIVE

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	CS 8080 MAC		LLEN/DAVIDOFF				SEP#75 PAGE 1	0=1
3	MAL	6=SEP=	64 03:11	INPUT	AND READ	CODE		
4042	004714*	000000	000000					
4043	004715	001000	000062	58100		STA	CNTWFL>	FORCE OUTPUT
4044	004716*		001541					
4045	004717							
4046	0047201		000302	58120		JNZ	NOTOTI	JIF NOT NO MESSAGE
4047	004721		004735	30120		0.112		AT HOT HO HEODAGE
4048	004722		004716*					
4049		000000	004110	58140	IFN .	STRING		
4050	004723*	001000	000315	58160	AFN .	CALL	STRLTI	MAKE THE MESSAGE A STRING
4051	004724		007640*	30160		CALL	SIKLII	MAKE THE MESSAGE A STRING
4052	004725		004721*					
4053	004726		000317	58180		SYNCHK	59	; MUST END WITH SEMI-COLON
4054	004727		000073			_		
4055	004730		000345	58200		PUSH	H	REMEMBER WHERE IT ENDED
4056	004731"		000315	58220		CALL	STRPRT	PRINT IT OUT
4057	004732		007746*					
4058	004733		004724					
4059	004734	001000	000341	58240		POP	H>	
4060				58260	IFE	STRING	<	
4061				58280		CALL	STROUI	
4062				58300		SYNCHK		; ENDS WITH SEMI=COLON
4063	004735	001000	000345	58320	NOTQTI:		H	
4864				58340	IFE	FUNCTS.		
4065				58360		LHLD	CURLIN	; IS IT DIRECT?
4066				58380		MVI	E,ERRID	IF SO "ILLEGAL DIRECT" ERROR
4067				58400		INX	H	IDIRECT MEANS THAT
4068				58420		MOV		CURLIN=65535
							A,L	
4069				58440		ORA	H	ADDED ONE AND GOT 0?
4070				58460	TEN	JZ	ERROR>	IF SO, GO COMPLAIN
4071			202715	58480	IFN	FUNCTS,		
4072	004736		000315	58500		CALL	ERRDIR>	JUSE COMMON ROUTINE SINCE DEF
4073	004737		007532					
4074	004740	000000	004732*					
4075				58520				IDIRECT IS ALSO ILLEGAL
4076	004741		000315	58540	GETAGN:	CALL	GINLIN	TYPE "?" AND INPUT A LINE OF TEXT
4077	004742		002522					
4078	004743		004737					
4079	004744	001000	000043	58560	IFN	LENGTH,	<inx h<="" td=""><td>; IF NO INPUT WE QUIT</td></inx>	; IF NO INPUT WE QUIT
4080	004745	001000	000176	58580		MOV	A,M	
4081	004746*		000267	58600		ORA	A	
4082	004747		000053	58620		DCX	H	
4083	004750*		000301	58640		POP	В	ITAKE OFF SINCE MAYBE LEAVING
4084	004751		000312	58660		JZ	STPEND	JIF EMPTY LEAVE
4085	004752		003500'					
4086	004753		004742*					
4087	004754		000305	58680		PUSH	8>	PUT BACK SINCE DIDNAT LEAVE
4088	004755		000303	58700		JMP	INPCON	ILOI DUCK GIVE DIDALI FEMAL
4089			000303	30/00		o mr	THE COM	
	004756							
4090	004757		004752*					
4091	004760		000345	58720	READ:	PUSH	н	SAVE THE TEXT POINTER
4092	004761		000052	58740		LHLD	DATPTR	IGET LAST DATA LOCATION
4093	004762		001627*					
4094	004763*		004756*					

BASIC 3	MCS 8080		ALLEN/DAVIDOFF		47 (113) 2 AND READ		SEP-75 PAGE 1	8=2
-								
4095	004764*		000366	58760		XWD	*01000,*0366	
4096	004765		000257	58780	INPCON:		A	SET FLAG THAT THIS IS AN INPUT
4097	004766		000062	58800		STA	FLGINP	ISTORE THE FLAG
4098	004767		001602*					
4099	004770	000000	004762*					
4100				58820	1			
4101				58840				AND READ STATEMENTS;
4102				58860				DATA (IE THE NUMBERS BEING FETCHED)
4103				58880	; AND A	NOTHER P	POINTS TO THE	LIST OF VARIABLES
4104				58900	;			
4105				58920	; THE P	DINTER I	INTO THE DATA	ALWAYS STARTS POINTING TO A
4106				58940	; TERMI	NATOR	A , : OR END	=OF-LINE
4107				58960	;			
4108	004771*	001000	000343	58980		XTHL		; (H,L) = VARIABLE LIST POINTER
4109				58982				IDATA POINTER GOES ON THE STACK
4110	004772		000001	59000		XWD	-01000,1	"LXI B," OVER THIS CHECK
4111	004773*	001000	000317	59020	LOPOT2:	SYNCHK	44	MAKE SURE THERE IS A ","
4112			000054					
4113	004775*	001000	000315	59040		CALL	PTRGET	FREAD THE VARIABLE LIST
4114	004776		006505*					THE PROPERTY OF THE PARTY OF TH
4115	004777		004767*					
4116				59060				JAND GET THE POINTER TO A VARIABLE INTO (
4117	005000*	001000	000343	59080		XTHL		PUT THE VARIABLE LIST POINTER ONTO THE
4118	000000	001000		59100				ISTACK AND TAKE THE
4119				59120				JUATA LIST POINTER OFF
4120				59140	;			17.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
4121				59160	NOTE	AT THIS	POINT WE HAVE	A VARIABLE WHICH WANTS DATA
4122				59180			ST GET DATA OR	
4123				59200	1			
4124	005001*	001000	000325	59220		PUSH	D	ISAVE THE POINTER TO THE VARIABLE WE
4125		001010		59240			-	JARE ABOUT TO SET UP WITH A VALUE
4126	005002*	001000	000176	59260		MOV	A.M	ISINCE THE DATA LIST POINTER ALWAYS POINT
4127				59280				AT A TERMINATOR LETS READ THE
4128				59300				TERMINATOR INTO (A) AND SEE WHAT
4129				59320				IT IS
4130	005003	001000	000376	59340		CPI	44	
4131	005004*		000054	- / 340				
4132			000312	59360		JZ	DATBK	A COMMA SO A VALUE MUST FOLLOW
4133			005025*	27300			961011	In demin of a three light recent
4134	005007*		004776*					
4135	663681	000000	004110	59380	IFE	LENGTH,		
4136				59400	41.6	ORA .	, `_A	IN THE 4K VERSION
4136				59420		JNZ	SNERR>	DATA MUST BE ALONE ON A LINE
4138	005010	001000	000072	59440		LDA	FLGINP	SEE WHAT TYPE OF STATEMENT THIS WAS
4139		000000		37440			. Colui	TOLE MAN TIPE OF STRILLING THE WAS
4149			005006					
4140			000267	59460		ORA	A	
	003013	601000	NENCOL	59480	IFE	LENGTH.		
4142					IFE	INX		ADDING AT BOTHTON TO HEYT LINE
4143				59500			H	POINT AT POINTER TO NEXT LINE
4144				59520		JNZ	DATEND>	IF IT IS A READ GO
4145			000303	59540	****	LENGTH		SEARCH FOR ANOTHER DATA STATEMENT
4146			000302	59560	IFN	LENGTH,	, < JNZ DATL	UP>
4147	005015	000000	005163					