BASIC M	S 8080	GATES/A	LLEN/DAVIDOFF	MACRO	47(113) 0	3:12 10-	SEP-75 PAGE 1	8=3
F3	MAC		64 03:11		AND READ			
4148	005016*	опония	005011*					
4149	005017		000076	59580		MVI	A, "?"	
	005020	000000	000077	2.200				
4151			000337	59600		OUTCHR		JOOUBLE PROMPT WHEN WE NEED MORE INPUT
4152			000315	59620		CALL	QINLIN	JGET A WHOLE LINE AFTER TYPING "?"
4153			0025224					your a mode game at the first to
	005024*		005015*					
4155	oosbr.	000000	003015	59640				THE DATA NOW STARTS AT THE BEGINNING
4156				59660				OF THE BUFFER
4157				59680				AND GINLIN LEAVES [H,L] =BUF
	005025*			59700	DATBK:			TAND BINEIN CERTES INTERTOOR
4159	003053			59720	IFE	LENGTH,	<pop d<="" td=""><td>POP OFF POINTER TO THE VARIABLE</td></pop>	POP OFF POINTER TO THE VARIABLE
4160				59740	11.6	INX	H	FUDGE CHARACTER POINTER
4161				59760		CALL	REDINP>	FREAD A VALUE USING "LET" CODE
4162				59780	IFN	LENGTH,		THERE A TREES DOING CET COSE
4163				59800	IFN	STRING		
4164	005025	001000	000072	59820	11.11	LDA	VALTYP	ISEE IF ITS NUMERIC OR STRING
4165	005026		001543*	37020				Your T. Tie wouthite ou giving
4166	005027		005023*					
4167	DODGE	000000	003000	59840	IFE	LENGTH.	.2.4	
	005030*	001000	000376	59860	11.6	CPI	3	IS IT A STRING ?
4169	005031		000003	3,000		0.1	,	110 11 H OINTHO .
4170	005032*		000365	59880		PUSH	PSW	ISAVE THE TYPE INFORMATION
4171			000302	59900		JNZ	NUMINS>	; IF NUMERIC, USE FIN TO GET IT
	005034		005070	37700		3142	HOHIHOP	III NOMEKIC, OSE FIN TO BET IT
	005035		005026					
4174	663633	000000	MADREO.	59920	IFN	LENGTH-	- 2 -	
4175				59940	TLIA	ORA	A	
4176				59960		JZ	NUMINS>	INPUT A NUMBER IF NUMERIC
4177				59980		32	MONTHO	JONLY THE VARAIBLE TYPE IS
4178				60000				CHECKED SO AN UNQUOTED STRING
4179				98858				ICAN BE ALL DIGITS
4180	005036*	001000	000327	60040		CHRGET		TOAN BE ALL DIGITS
4181	005037		000127	60060		MOV	D.A	ASSUME QUOTED STRING
4182	005040		000107	60080		MOV	B, A	SETUP TERMINATORS
4183	005041		000376	60100		CPI	34	QUOTE ?
4184	005042		000042	00100		GF I	34	10001E 1
4185	005043		000312	60120		JZ	NOWGET	JTERMINATORS OK
4186	005044		005053*	00150		32	MUMBET	TIERHINATURS ON
4187	005045*		005034*					
4188	005046		000056	60140		MVI	D,":"	JUNGUOTED STRING TERMINATORS
4189	005047		000072	00140			., .	AUGGOIDA GIUTUR IRUITURIONO
4190	005050		000006	60160		MVI	8,44	JARE COLON AND COMMA
4191			000054	90100			5,44	Aur Cofou Mun Coulum
4192	003031.	000000	00000	60180		DCX	н	IBACKUP SINCE START CHARACTER MUST BE INCLUDED
4193	005052*	001000	000053	90190		OU.		ADMONDS STATE START CHARACTER HOST DE INCLUDES
4194	000005.	001000	000000	60200				IN THE QUOTED STRING CASE WE DON'T WANT TO
4195				60550				JINCLUDE THE STARTING OR ENDING QUOTE
4195	005053*	001000	000315	60240	NOWGET:	CALL	STRLT2	MAKE A STRING DESCRIPTOR FOR THE VALUE
4196	005054	903000	007643*	98548	HONGELI	CAGL	SINGIE	THANK A STATES DESCRIPTOR FOR THE VALUE
4198	005055		005044*					
4199	003033.	000000	003044	60242				JAND COPY IF NECESSARY
4200				60260	IFE	LENGTH.	-3 -	MAN COFT IF NECESSART
						FEMBIH.	1613	

4201 0 4202 0 4203 0 4204 0 4205 0 4206 0 4206 0 4207 0 4208 0 4209 0 4210 0 4211 0 4212 0 4213 0 4213 0 4215 4216 0	005056* 005057* 005057* 005060* 005060* 005060* 0050605* 005065* 005065* 005067* 005070* 005070* 005070*	001000 001000 001000 0010000 001000 001000 001000 001000 001000 001000 001000 001000 001000	64 03111 000361 000353 00001 005077 005054 000343 000325 000305 004157 005061 000327 000360 0005066	1NPUT 60280 60320 60340 60360 60380 60400	AND READ DOASIG:	POP XCHG LXI XTHL PUSH JMP	PSW> H,STRDN2 D INPCOM>	JPOP OFF THE TYPE INFORMATION J(0,E)=TEXT POINTER JRETURN LOC J(M,L)=PLACE TO STORE VARIABLE VALUE JTEXT POINTER GOES UN JOO ASSIGNMENT
4202 8 4203 8 4204 8 4206 8 4206 8 4208 8 4208 8 4211 8 4212 8 4213 8 4214 8 4215 4 4217 8	005057* 005060* 005062* 005063* 005064* 005066* 005066* 005070* 005070* 005071* 005073*	001000 001000 000000 001000 001000 001000 001000 001000 001000 001000 001000 001000	920353 92041 925077 925054 920343 920325 920157 925061 920327 920315 920000*	60320 60340 60360 60380 60400		XTHL PUSH JMP	H,STRDN2	(O,E) = TEXT POINTER FRETURN LOC (H,L) = PLACE TO STORE VARIABLE VALUE TEXT POINTER GOES ON
4202 8 4203 8 4204 8 4206 8 4206 8 4208 8 4208 8 4211 8 4212 8 4213 8 4214 8 4215 4 4217 8	005057* 005060* 005062* 005063* 005064* 005066* 005066* 005070* 005070* 005071* 005073*	001000 001000 000000 001000 001000 001000 001000 001000 001000 001000 001000 001000	920353 92041 925077 925054 920343 920325 920157 925061 920327 920315 920000*	60320 60340 60360 60380 60400		XTHL PUSH JMP	0	;[0,E]=TEXT POINTER ;return loc ;[1,L]=Place to store variable value ;text pointer goes on
4204 0 4205 0 4206 0 4208 0 4208 0 4210 0 4212 0 4212 0 4213 0 4214 0 4215 4 4215 0 4217 0	005061 005062 005063 005063 005065 005066 005066 005067 005072 005073	000000 000000 001000 001000 001000 001000 000000	000041 005077' 005054' 000343 000325 000303 004157' 005061' 000327 000315	60360 60380 60400	NUMINS:	XTHL PUSH JMP	0	JRETURN LOC J[H,L]=PLACE TO STORE VARIABLE VALUE JIEXT POINTER GGES ON
4205 8 4206 8 4208 8 4208 8 4210 8 4211 8 4211 8 4213 8 4214 8 4215 4 4215 4 4217 8	005062° 005063° 005064° 005066° 005066° 005070° 005071° 005071° 005073° 005073°	998989 931999 931999 901999 902999 902999 901999 901999 902999	005054* 000343 000325 000303 004157* 005061* 000327 000315	60380 60400 60420	NUMINS:	JMP CHRGET		TEXT POINTER GOES ON
4205 8 4206 8 4208 8 4208 8 4210 8 4211 8 4211 8 4213 8 4214 8 4215 4 4215 4 4217 8	005062° 005063° 005064° 005066° 005066° 005070° 005071° 005071° 005073° 005073°	998989 931999 931999 901999 902999 902999 901999 901999 902999	000343 000325 000303 004157* 005061* 000327 000315	60380 60400 60420	NUMINS:	JMP CHRGET		TEXT POINTER GOES ON
4207 4208 4209 4210 4211 4212 4213 4214 4215 4216 4217	005064° 005065° 005066° 005067° 005071° 005071° 005073°	001000 001000 000000 000000 001000 001000 000000	000325 000303 004157 * 005061 * 000327 000315 000000*	60380 60400 60420	NUMINS:	JMP CHRGET		TEXT POINTER GOES ON
4207 4208 4209 4210 4211 4212 4213 4214 4215 4216 4217	005064° 005065° 005066° 005067° 005071° 005071° 005073°	001000 001000 000000 000000 001000 001000 000000	000325 000303 004157 * 005061 * 000327 000315 000000*	60380 60400 60420	NUMINS:	JMP CHRGET		TEXT POINTER GOES ON
4208 8 4209 8 4210 8 4211 8 4212 8 4213 8 4214 8 4215 4216 8 4217 8	005065* 005066* 005067* 005071* 005073* 005073*	001000 000000 000000 001000 001000 000000	000303 004157* 005061* 000327 000315 000000*	60420	NUMINS:	CHRGET	INPCOM>	100 ASSIGNMENT
4209 8 4210 8 4211 8 4212 8 4213 8 4214 8 4215 4216 8 4217 8	05066° 05067° 05070° 05071° 005073°	300000 000000 001000 001000 000000 000000	004157* 005061* 000327 000315	60420	NUMINS:			
4210 0 4211 0 4212 0 4213 0 4214 0 4215 4216 0 4217 0	005070' 005071' 005072' 005073'	000000 001000 001000 000000 000000 001000	005061* 000327 000315 000000*		NUMINS:			
4211 8 4212 8 4213 8 4214 8 4215 4216 8 4217 8	005070° 005071° 005072° 005073°	001000 001000 000000 000000	000315 000000*		NUMINS:			
4212 8 4213 8 4214 8 4215 4216 8 4217 8	005071° 005072° 005073°	001000 000000 000000 000000	000315 000000*	60440				
4213 8 4214 8 4215 4216 8 4217 8	05072° 05073° 05074°	000000 000000 001000	000000*			CALL	FIN	
4214 8 4215 4216 8 4217 8	05073° 005074° 005075°	001000						
4215 4216 8 4217 8	05074	001000						
4216 8 4217 8	005075			60460	IFE	LENGTH-	2,4	
4217 8	005075		000303	60480		JMP	DUASIG>	; ASSIGNMENT IS COMPLICATED
		NUNNNN	005056					
4218 8			005072*					
4219				60500				EVEN FOR NUMERICS SO USE THE "LET" CODE
4220				60520	IFN	LENGTH-	2,4	
4221				60540		XTHL		; [H,L] GET POINTER AT VARIABLE
4222				60560		CALL	MOVMF	IDO THE ASSIGNMENT
4223				60580		POP	H>>	JGET BACK THE TEXT POINTER
	805077*			60600	STRDN2:			
4225				60620	IFN	LENGTH,	<	
	005077*	001000	000053	60640		DCX	H	
	005100		000327	60660		CHRGET		
	005101'		000312	60680		JZ	TRMOK	
	905102*		005111					
	005103*		005075*					
	005104		000376	60700		CPI	44	
4232 0	005105	000000	000054					
4233 0	005106	001000	000302	60720		JNZ	TRMNOK>	; ENDED PROPERLY?
4234 0	995197	000000	004667*					
	05110		005102*					
	05111		000343	60740	TRMOK:	XTHL		
	105112		000053	60760		DCX	н	LOOK AT TERMINATOR
	051131		000327	60780		CHRGET		; AND SET UP CONDITION CODES
	05114*		000302	60800		JNZ	LOPOTZ	INOT ENDING, CHECK FOR COMMA
	05115'		004773*					
	05116	000000	005107*					
4242				60820				JAND GET ANOTHER VARIABLE
4243				60840				TO FILL WITH DATA
4244								
4245 0	05117*	001000	000321	60880		POP	D	POP OFF THE POINTER INTO DATA
	905120		000072	60900		LDA	FLGINP	FETCH THE STATEMENT TYPE FLAG
4247 0	905121	000000	001602					
4248 Ø	9051221	000000	005115*					
4249 0	0051231	001000	000267	60920		ORA	A	
4250				60940	IFE	LENGTH,	<rz></rz>	DON'T UPDATE DATPTR IF IT WAS AN
4251				60960				INPUT STATEMENT
	05124	001000	000353	60980		XCHG		
		001000	000302	61000		JNZ	RESFIN	JUPDATE DATPTR

3	MAC	6=SEP=	64 03:11		AND READ		-SEP-75 PAGE 18-	
4254	0051361	acasaa	003453*					
4255			005121					
4256	COSIE	000000	OUDIEL	61020	IFN	LENGTH		
4257	005130*	001000	000266	61040	11.14	ORA		COULD HAVE ENDED WITH COMMA OR
4258		061500	868560	61060		UKA	n	COLON, BUT SHOULD BE A ZERO
4259		901000	000001	61080		LXI	H. EXIGNT	TEXT FOR "EXTRA"
4260			005142*	91000			H,EXIONI	ILEXI FOR "EXINA"
4261			005126*					
4262						PUSH	D	
				61100				SAVE THE TEXT POINTER
4263				61120		CNZ	STROUT	; IF WASN'T REAL END SAY SOMETHING
4264			007743*					
4265	005137	000000	005132*					
4266				61140		POP	н	GET BACK THE TEXT POINTER
4267				61160		RET		
4268				61180	EXIGNT:	DC SEX	TRA IGNORED"	
4269								
4270								
4271								
4272								
4273								
4274								
4275								
4276								
4277	0051531	000000	000116					
4278	005154*	000000	000117					
4279	005155*	000000	000122					
4280	005156	000000	000105					
4281								
4282	005157	000000	000304					
4283				61200		ACRLF		
4284	005161	000000	510000					
4285				61220		0>		
4286				61240	1			
4287				61260	; SUBRO	UTINE T	O FIND DATA	
4288				61280	I IN TH	E 4K "	ATA" MUST BE AT	THE START OF THE LINE
4289				61300				THE LINKS AT THE START OF EACH LINE.
4290				61320	1			
4291				61340	I IN TH	E BK AN	D EXTENDED THE S	EARCH IS MADE BY USING THE EXECUTION
4292				61360				ENTS. THE START WORD OF EACH STATEMEN
4293				61380				H NEW LINE NUMBER
4294				61400	I IS ST	DRED IN	DATLIN SO THAT	IF AN ERROR OCCURS WHILE READING
4295				61420				GIVE THE LINE NUMBER OF THE
4296				61440	; ILL-F			
4297				61460	,		0 0 1 1 1	
4298	005163*	001000	000315	61480	DATLOP:	TEN	LENGTH, <call< td=""><td>DATA></td></call<>	DATA>
4299			004072	01408	JAILUP:		CEMBINITIES.	VALUE .
4300			905136°					
4301	003103	000000	003130	61500		IFE	LENGTH, <pop< td=""><td>H></td></pop<>	H>
4302	005166*			61520	DATEND:		LENGTH, <	n.
4303		001000	000267	61540	DATEND:	DRA	A A	
				61560		JNZ	NOWLIN>	
4304				01300		JNZ	MOMETAN	
4305			005214*					
4306	005171	000000	005164					

MACRO 47(113) 03:12 10-SEP-75 PAGE 18-6 INPUT AND READ CODE

LENGTH, <
INX H>
PUSHM
MDV A, 0
ORA B

LENGTH, <INX LENGTH, <POP MOV E, M INX H MOV D, M XCHG SHLD DATLI

XCHG> CHRGET CPI

LENGTH, <POP

JZ

A,C

ERROR

DATLIN

DATATK

DATBK

E,ERROD

SAVE POINTER TO THE NEXT STATEMENT SEE IF WE ARE AT THE END

INO DATA IS ERROR ERROD

RESTORE TEXT POINTER GET THE STATEMENT TYPE IS IS "DATA"?

CONTINUE READING

INOT DATA SO LOOK SOME MORE

FIF SO COMPLAIN

ISKIP PAST LINE #

JGET DATA LINE #

61700

61860 61880 61900

61920

61940

62040

IFN

IFE

NOWLIN:

IFE

PAGE

BASIC MCS 8080 GATES/ALLEN/DAVIDOFF F3 MAC 6=SEP=64 03:11

005170

000042

001577' 005201' 000353 000327

000376 000203 000302 005163

005211

005220°

005172' 001000 005173' 001000 005174' 001000 005174' 001000 005176' 001000 005176' 001000 005200' 001000 005200' 001000 005201' 000000 005202' 000000

005203* 001000 005204* 001000 005205* 001000 005206* 001000 005207* 001000 005210* 001000

005211' 001000 005211' 000000 005213' 001000 005213' 001000 005213' 001000 005213' 001000 005213' 001000 005213' 001000 005213' 001000 005213' 000000 005221' 000000

005222' 001000 005223' 000000 005224' 000000

4340

BA F3		S 8080		LLEN/DAVIDOFF		47 (113) Ø AND READ		=SEP=75 PAGE 18=	5
	4254	ade.n.	аспава	003453*					
	4255 4256	002151,	000000	005121	(1000	TEN	LENGT		
				000044	61020	IFN	LENGTH		
	4257	005130	001000	000266	61040		ORA	М	COULD HAVE ENDED WITH COMMA OR
	4258				61060			A MARKETAN	ICOLON, BUT SHOULD BE A ZERO
	4259		001000		61080		LXI	H, EXIGNT	TEXT FOR "EXTRA"
	4260		000000						
	4261		001000	005126° 000325	61100		PUSH	D	SAVE THE TEXT POINTER
	4263		001000		61100		CNZ	STROUT	IF WASN'T REAL END SAY SOMETHING
	4264			007743*	61120		LNZ	SIROUI	IT WASH'T KEAL END SAT SUMETHING
	4265			005132					
	4266		001000		61140		POP	н	JGET BACK THE TEXT POINTER
	4267		001000		61160		RET	,	APEL DATE THE TEXT POTNIER
	4268		000000		61180	FYTGNT		TRA IGNORED"	
	4269		999999		01100	CYTONI.	00.167	THA IBNORED	
	4270		9099999						
	4271		000000						
	4272		000000						
	4273		000000						
	4274		000000						
	4275		000000						
	4276		000000						
	4277		000000						
	4278		000000						
	4279		000000						
	4280		000000						
	4281		000000						
	4282		000000						
	4283		000000		61200		ACRLF		
	4284		000000						
	4285		000000		61220		0>		
	4286		000000		61240	1			
	4287				61260	: SUBRO	UTINE 1	O FIND DATA	
	4288				61280	I IN TH	E 4K "	ATA" MUST BE AT	THE START OF THE LINE
	4289				61300				THE LINKS AT THE START OF EACH LINE.
	4290				61320	1			
	4291				61340	; IN TH	E BK AF	D EXTENDED THE S	EARCH IS MADE BY USING THE EXECUTION CODE
	4292				61360				ENTS. THE START WORD OF EACH STATEMENT
	4293				61380				H NEW LINE NUMBER
	4294				61400				IF AN ERROR OCCURS WHILE READING
	4295				61420	; DATA	THE ERF	OR MESSAGE WILL	GIVE THE LINE NUMBER OF THE
	4296				61440	; ILL-F	DRMATTE	D DATA	
	4297				61460	1			
	4298		001000		61480	DATLOP:	IFN	LENGTH, <call< td=""><td>DATA></td></call<>	DATA>
-	4299	005164*	000000						
	4300	005165"	000000	005136°					
	4301				61500		IFE	LENGTH, <pop< td=""><td>H></td></pop<>	H>
	4302	005166*			61520	DATEND:	IFN	LENGTH, <	
	4303	005166*	001000	000267	61540		ORA	A	
	4304		001000	000302	61560		JNZ	NOWLIN>	

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3			LLEN/DAVIDOFF 64 03:11	NEXT CO		3.12 10	SEP=75 PAGE 1	.7
-		3610	04 03.11	MEAT CO	, o.c.			
4341				62060	SUBTTL	NEXT CO	DE	
4342				62080	1			
4343				62100	; NOTE:			
4344				62120	;			
4345				62140	;			
4346				62160	7 A FOR	ENTRY I	ON THE STACK H	AS THE FOLLOWING FORMAT:
4347				62180	;			
4348				65500	1			
4349				65550	; LOW A			
4350				62240	,			BYTE) 1 BYTES
4351				65560	,			P VARIABLE 2 BYTES
4352				65580	;			E SIGN OF THE INCREMENT 1 BYTE
4353				62300	;		EP 4 BYTES	
4354				62320	1		PER VALUE 4 BY	
4355				62340	,			OR" STATEMENT 2 BYTES
4356				62360	1		POINTER INTO	THE "FOR" STATEMENT 2 BYTES
4357				62380	HIGH	AUDRESS		
4358				62400				
4359				62420	TOTAL	16 BYTI	18	
4360				62440				
4361	005225		000001	62460	NEXT:	LENGTH		DOS. ASOD MUS BUCKER
4362	005225' 001		000000	62480	IFN	LENGTH	, «LXI 0, SL	ODE>; FOR THE "NEXT"
	005226' 008							
4364	005227 008	9000	005223*	62500				STATEMENT WITHOUT ANY ARGS
4366				62520				
4367	0050201			62540	NEXTC:			; WE CALL FNDFOR WITH [D, E] =0
4368	005230*			62560	IFE	LENGTH	_	
4369				62580	TLE	CALL		JMUST HAVE A VARIABLE
4370				62600	IFN	LENGTH		THOST HAVE A VARIABLE
4371	005230* 001	000	000304	65950	*****	CNZ	PTRGET>	IGET A POINTER TO THE
4372	005231' 008		006505*	OEGED		CIVE	FINGEIF	AGEL & LOTHICK TO THE
4373	0052321 000		005226					
4374	002525 000	1000	003550	62640				JLOOP VARIABLE INTO [D.E]
4375	005233' 001	000	999942	62660		SHLD	TEMP	PUT THE TEXT POINTER
4376	005234' 008		001603*	02000		01120	10.11	FOI THE TEXT FORMER
4377	005235' 000		005231*					
4378	222522 000			62680				IN A TEMP LOCATION
4379				62700				IN CASE THE LOOP TERMINATES
4380	005236* 001	000	000315	62720		CALL	FNDFOR	JIRY TO FIND A FOR ENTRY
4381	005237 000		001744	02120				, to take a ten ental
4382	005240 008		005234*					
4383				62740				ON THE STACK WHOSE VARIABLE NA
4384				62760				IMATCHES THIS ONES
4385				62780	IFN	LENGTH	. <	,
4386	005241 001	000	000302	62800		JNZ	NFERR>	;"NEXT WITHOUT FOR"
4387	005242' 008		002100*					
4388	005243 000		005237					
4389	005244 001		000371	62820		SPHL		SETUP STACK POINTER BY CHOPPIN
4390				62840				AT THIS POINT
4391	005245' 001	000	000325	62860		PUSH	0	IPUT THE VARIABLE PTR BACK ON
4392	005246* 001		000176	62889		MOV	A,M	ISTEP ONTO THE STACK
						INX		

F3	MAC MAC		LLEN/DAVIDOFF	NEXT C		3:12 18	SEP-75 PAGE	19-1
4394	0052501	001000	000365	62920		PUSH	PSW	
4395	005251*	001000	000325	62940		PUSH	0	PUT THE POINTER TO THE LOOP
4396				62960				IVARIABLE ONTO THE STACK
4397				62980	IFE	LENGTH	1. <	
4398				63000		MVI	E, ERRNF	
4399				63020		JNZ	ERROR>	
4400	0052521	001000	000315	63040		CALL	MOVEM	ISTEP VALUE INTO THE FAC
4401	005253*		000000*					,
4402	005254*		005242*					
4403	005255		000343	63060		XTHL		PUT THE POINTER INTO THE
4484				63080				JFOR ENTRY DATO THE STACK
4405	005256	001000	000345	63100		PUSH	н	PUT THE POINTER TO THE LOOP
4406	002530	001000	000545	63120		1 0011		IVARIABLE BACK ONTO THE STACK
4407	005257	001000	000315	63140		CALL	FADDS	JADD THE STEP AND LOOP VARIABLE
4408	005260		0000000*	03140				THE TIPE AND EAST THE TABLE
4409	005261		005253*					
4410	002565		000341	63160		POP	н	POP OFF THE POINTER TO
4410	003595.	001000	000341	63180		. 01	"	THE LOOP VARIABLE
4411	005263*	001000	000315	63200		CALL	MOVME	MOV FAC INTO LOOP VARIABLE
4412	005264		0000000*	03500		CHEL	HOTHY.	THOU PAG INTO COUP VARIABLE
4414	005265		005260*	(7220		POP	н	AGET THE ENTRY COTATED
4415		001000	000341	63220			MOVRM	IGET THE ENTRY POINTER
4416	005267		000315	63240		CALL	MUVKM	GET THE FINAL INTO THE REGISTERS
4417	005270		000000*					
4418	005271		005264*					THE BUT THERE DOTINED
4419	005272		000345	63260		PUSH	H FCOMP	SAVE THE ENTRY POINTER
4420	005275		000315	63280		CALL	PCOMP	COMPARE THE NUMBERS
4421	005274*		000714*					
4422	005275		005270*			1020111		
4423	005276		000341	63300		POP	н	ISTILL POINTING TO THE FINAL VALUE
4424	005277		000301	63320		POP	В	JGET THE SIGN OF THE INCREMENT
4425	005300	001000	000550	63340		SUB	В	SUBTRACT THE INCREMENTS SIGN FROM TH
4426				63360				OF (CURRENT VALUE-FINAL VALUE)
4427	005301		000315	63380		CALL	MOVRM	GET LINE # OF "FOR" INTO [D,E]
4428	005302		005270*					
4429	005303	000000	005274*					
4430				63400				IGET TEXT POINTER OF "FOR" INTO (B,C)
4431	005304	001000	000312	63420		JZ	LOOPDN	; IF SIGN(FINAL=CURRENT)+SIGN(STEP)=0
4432	005305*		005320					
4433	005306	000000	005302*					
4434				63440				THEN THE LOOP IS FINISHED
4435	005307	001000	000353	63460		XCHG		
4436	005310*	001000	000042	63480		SHLD	CURLIN	STORE THE LINE #
4437	005311		001607					-
4438	005312*		005305*					
4439	005313*		000151	63500		MOV	L,C	SETUP THE TEXT POINTER
4440	005314		000140	63520		MOV	H.B	
4441	005315		000303	63540		JMP	NXTCON	
4442	005310		003276*	000-0				
4443	005317		005311*					
4444	002311.	000000	003311					
4445	8857381	001000	000371	63580	LOOPDN:	SPHI		FELIMINATE THE FOR ENTRY
4446	S63356.	001000	000311	63600	FOOL DIA:	ALUE.		SINCE [H,L] MOVED ALL

BASIC MCS 8080 GATES/ALLEN/DAVIDOFF F3 MAC 6=SEP=64 03:11 MACRO 47(113) 03:12 10-SEP-75 PAGE 19-2 NEXT CODE 63620 THE WAY DOWN THE ENTRY RESTORE THE TEXT POINTER 4447 4448 4449 4450 4451 4452 4453 4454 005321' 001000 005322' 000000 005323' 000000 000052 001603* 005316* 63640 LHLD TEMP LENGTH, < JMP LENGTH, < MOV A, M CPI 44 63660 63680 63700 63720 IFE NEWSTT> 005324* 001000 005325* 001000 005326* 00000 005330* 000000 005330* 000000 005332* 001000 005333* 001000 005335* 001000 005335* 000000 000176 000376 000054 ; IS THERE A COMMA AT THE END ; IF SO LOOK AT ANOTHER 000054 000302 003302 005322 000327 000315 005230 005330 VARIABLE NAME TO "NEXT" 63740 INT 4456 4457 4458 4459 4460 4461 4462 4463 4464 4465 4466 4467 NEWSTT . 63760 CHRGET ; READ FIRST CHARCTER ; DO NEXT, BUT DON'T ALLOW • 63780 NEXTC> ;BLANK VARIABLE NAME [D,E]=STK PTR
;AND WILL NEVER MATCH ANY VARPTR
;USE CALL TO PUT DUMMY "NEWSTI" ENTRY ON 63800 63820 . 63880 • . • • • BASIC MCS 8080 GATES/ALLEN/DAVIDOFF F3 MAC 6-SEP-64 03:11 MACRO 47(113) 03:12 10=SEP=75 PAGE 20 NEXT CODE • 4468 .

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