

## INSTRUCTIONS FOR MICRO-BASIC VERSION 1.3

### EDITING AND LINE FORMATS

1. Line numbers must be between 1 and 65535
2. Lines are appended and/or inserted
3. Line number alone followed by C/R deletes the line
4. Blanks are immaterial, except key words must contain no imbedded blanks
5. Control "X" deletes entire line if entered before C/R
6. Control "O" deletes the last character
7. The system prompts with a "#"
8. Multiple statement lines are not permitted

### COMMANDS

1. NEW - Deletes all lines and data
2. LIST - Lists the program as follows:
  - A. LIST C/R - Lists entire program
  - B. LIST X - Lists line labeled with X
  - C. LIST X,Y - Lists all lines between labels X and Y
3. SIZE - Prints two decimal numbers
  - A. Number of bytes used by program
  - B. Number of bytes of RAM memory remaining (variable storage is not included until program has been run)
4. RUN - Executes program consisting of the numbered statements
5. Any line without a line number is executed immediately  
Example: PRINT (47+56) \*15  
(Caution: A basic program could contain the statement:  
100 NEW which would be suicidal)
6. A "Break" will terminate program execution and return to "#"

### INPUT/OUTPUT

1. INPUT Statement
  - A. INPUT X
  - B. INPUT X,Y,Z
  - C. System prompts with "?" on an input command
  - D. If the input list defines more input than is entered an additional "?" is prompted
  - E. Numbers inputted must be separated by a comma
  - F. Entry of numbers out of the range  $\pm 32762$  causes an error
1. PRINT statement
  - A. PRINT - Prints a blank line
  - B. PRINT A,B,C
  - C. PRINT "LITERAL STRING"
  - D. PRINT A; "TIMES"; B; "EQUALS"; A\*B
  - E. A semicolon creates a single space between elements whereas a comma is used for zone spacing. (See tab function)
  - F. A semicolon at the end of the print line suppresses C/R and LF

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## VARIABLES

1. 26 Variable names A,B,C,D ....Z are allowed
2. Can be subscripted (See 5 below)
3. + 32762
4. No string variables (Strings can only be used in print statements)
5. DIM statement: One or two dimensions. Array arguments can be expressions
  - A. Example: DIM X(5,10), Y(A+30)
  - B. Maximum subscript size 255
  - C. No minus or zero subscripts allowed

## EXPRESSIONS

- A. X
- B. X+Y \*(5-Z)
- C. (X+Y) \* (X-Y)/(X \* Y)
- D. Divide by zero causes error printout
- E. Abbreviated below as "EXPR" to show how statements work
- F. Double byte integer math only
- G. Overflow over/under + 31762 causes error on multiply and divide  
no error on addition or subtraction overflow.

## ASSIGNMENT STATEMENTS

- A. LET (VARIABLE)=EXPR  
Examples:  
LET X = Y  
LET Y = 10+C  
LET A(10,X) = (X+Y)\*5 - (Z+3)\*50
- B. Can be implied  
Example:  
Y = A\*B + 1976

## RELATIONSHIP TEST

- A. IF EXPR (RELATIONSHIP) EXPR (STATEMENT)
- B. RELATIONSHIP can be:  
<, >, =, <>, ><, <=, >=
- C. Examples:  
IF X = Y GOTO 30  
IF X+5 = 2\*Y-7 LET X=Y  
IF A(10,Y) <> B(10,Z) PRINT "WRONG"

## CONTROL STATEMENTS

1. GOTO (EXPR)  
Examples:  
GOTO 35  
GOTO R+50
2. GOSUB (EXPR)  
Examples:  
GOSUB 8000  
GOSUB Z\*1000

3. While there is no "ON" EXPR "GOTO" command, using the calculating ability shown above gives one the same effect.
4. RETURN
  - A. Must be preceded by a GOSUB
5. FOR and NEXT
  - A. FOR (VARIABLE) = (EXPR) TO (EXPR)
  - B. Examples:
    - FOR J = 1 TO 20
    - FOR A(5) = T+3 TO Y\*10
  - C. Step is 1 only
  - D. FOR Loops can be nested
  - E. Branching out of the loops without indexing the variable is not permitted due to stack control problems
6. NEXT Variable:
  - A. Examples:
    - NEXT A(5)
    - NEXT J
  - B. Indexes the FOR variable by one.

#### FUNCTIONS

1. TAB (EXPR) - Starts next print element at position specified by EXPR
  - A. Examples:
    - PRINT TAB (20); I; TAB (40); "YES"
    - PRINT TAB (X+5); "\*"
  - B. If print element is past point defined, printing starts at present print position
2. RND - Random number generator creates a random number between 1 and 32762
  - A. Examples:
    - X = RND
    - Y = 30+2=RND/1000
  - B. No arguments allowed

#### PROGRAM FILE AND SYSTEM CUSTOMIZING

1. The program is stored starting at location \$OCA4
2. The next available core location is stored in \$002A and \$0028
3. Location \$0046 and \$0047 contain the high end of memory. This is set to \$1FFF (8 K) and must be changed if you have more or less. (The system will run in 4K, but you will have room for only about 35 statements)
4. Memory location \$43 contains \$48 (Decimal 72) (And must be changed per different print line lengths)
5. Memory location \$44 contains \$OF (Backspace control)
6. Memory location \$45 contains \$18 (Cancel control)

## ERROR MESSAGES

1. ERROR # \_\_\_\_\_ IN LINE # \_\_\_\_\_
  - A. If LINE # = 00000 error was in direct execution statement
2. Error Codes:
  1. Input line over 72 characters
  2. Numeric overflow
  3. Illegal character or variable
  4. No ending " in print literal
  5. Dimensioning error
  6. Illegal arithmetic
  7. Line number not found
  8. Divide by zero attempted
  9. Excessive subroutine nesting (max is 8)
  10. RETURN without prior GOSUB
  11. Illegal variable
  12. Unrecognizable statement
  13. Parenthesis error
  14. Memory full
  15. Subscript error
  16. Excessive FOR loops active (Max is 8)
  17. NEXT "X" without FOR loop defining "X"

## SAVING MICROBASIC PROGRAMS ON TAPE

1. The Microbasic Interpreter and program to be saved must be in memory prior to this sequence.
2. Enter Mikbug using the Microbasic PATCH command. Do not use the RESET button.
3. Examine and record the data stored in memory locations 002A and 0028.
4. Load memory locations A002 thru A005 with the sequential data: 0C, A4, data in 002A, data in 0028.
5. If you are using the AC-30 Audio Cassette Interface make sure the RECORD light is initially out, the LOCAL/REMOTE switch is in the REMOTE position, and that the interface is in the MANUAL motor control position. Start the recorder in the RECORD mode and advance past the leader.
6. Enter P for punch. Do not stop the recorder when the RECORD light goes out, but instead proceed to the next step.
7. Load memory locations A002 thru A005 with the sequential data: 00, 2A, 00, 33.
8. Enter P for punch. Do not stop the recorder when the RECORD light goes out, but instead proceed to the next step.
9. If you are using the AC-30 Audio Cassette Interface, flip the LOCAL/REMOTE switch to LOCAL, manually set the RECORD light ON, and type on the terminal's keyboard S9. Now reset the RECORD light out, flip the LOCAL/REMOTE switch back to REMOTE, and stop the recorder. The tape has now been generated.

## LOADING MICADBASIC PROGRAMS FROM TAPE

1. The Microbasic Interpreter must of course be resident at the time of loading, but get into Mikbug using the PATCH command.
2. Load the tape into the reader. If you are using the AC-30 the LOCAL/REMOTE switch must be set for REMOTE. and the motor control switch set for MANUAL. Start the recorder in the PLAY mode.
3. Type an L for load on the terminal's keyboard. The paper tape loads must be ended with a S9 entered from the keyboard. AC-30 cassette loads automatically respond with, \* upon loading and do not require the S9 since it is recorded on the tape.
4. Use the memory change function to set the data in memory locations A048 and A049 to 06 and 62 respectively.
5. Type G for go then LIST to see if the program loaded correctly.
6. Typing RUN as done with a normal Microbasic program should start program execution.

## NOTE

Any questions you might have, please contact Mr. Robert Uiterwyk,  
4402 Meadowwood Way, Tampa, Florida 33624.

NAM MICRO MICROBASIC

\* \*\*\*\*\*VERSION 1.3A \*\*\*\*\*  
 \*  
 \* BY ROBERT H UITERWYK, TAMPA, FLORIDA  
 \*  
 \*THIS PROGRAM ASSUMES THAT THE  
 \*MOTOROLA MIKBUG ROM IS INSTALLED  
 \*AND THAT ITS ASSOCIATED 128 BYTE  
 \*RAM IS ALSO PRESENT  
 \*THE SP AND XSTACK WILL HAVE TO  
 \*BE MOVED IF THIS IS NOT THE CASE

0020		ORG	\$20	0100		ORG	\$0100
0020 00 00	INDEX1	FDB	\$0000	0100 7E 06 46	PROGM	JMP	START
0022 00 00	INDEX2	FDB	\$0000	0103	VARTAB	RMB	78
0024 00 00	INDEX3	FDB	\$0000	0151 1E		FCB	\$1E
0026 00 00	INDEX4	FDB	\$0000	0152 52	COMMAN	FCC	/RUN/
0028 00 00	SAVE\$P	FDB	\$0000	0153 55 4E			
002A 0C A4	NEXTBA	FDB	END	0155 1E		FCB	\$1E
002C 0C A4	WORKBA	FDB	END	0156 06 C0		FDB	RUN
002E 0C A4	SOURCE	FDB	END	0158 4C		FCC	/LIST/
0030 00 00	PACKLN	FDB	\$0000	0159 49 53			
0032 00 00	HIGHLN	FDB	\$0000	015B 54			
0034 00 00	BASPNT	FDB	\$0000	015C 1E		FCB	\$1E
0036 00 00	BASLIN	FDB	\$0000	015D 06 EE		FDB	CLIST
0038 00 00	PUSHTX	FDB	\$0000	015F 4E		FCC	/NEW/
003A A0 7F	XSTACK	FDB	\$A07F	0160 45 57			
003C 00 00	RNDVAL	FDB	\$0000	0162 1E		FCB	\$1E
003E 00 00	DIMPNT	FDB	\$0000	0163 06 46		FDB	START
0040 00 00	DIMCAL	FDB	\$0000	0165 50		FCC	/PAT/
0042 00	PRCNT	FCB	0	0166 41 54			
0043 48	MAXLIN	FCB	72	0168 1E		FCB	\$1E
0044 0F	BACKSP	FCB	\$0F	0169 07 30		FDB	PATCH
0045 18	CANCEL	FCB	\$18	016B 47	GOLIST	FCC	/GOSUB/
0046 1F FF	MEMEND	FDB	\$1FFF	016C 4F 53			
0048 00 00	ARRTAB	FDB	\$0000	016E 55 42			
004A 00 00	KEYWD	FDB	\$0000	0170 1E		FCB	\$1E
004C 00	TSIGN	FCB	0	0171 08 1C		FDB	GOSUB
004D 00	NCMPR	FCB	0	0173 47		FCC	/GOTO/
004E 00	TNUMB	FCB	0	0174 4F 54			
004F 00	ANUMB	FCB	0	0176 4F			
0050 00	BNUMB	FCB	0	0177 1E		FCB	\$1E
0051 02 1A	AESTK	FDB	ASTACK	0178 08 3F		FDB	GOTO
0053 00 69	FORPNT	FDB	FORSTK	017A 47		FCC	/GO TO/
0055 01 03	VARPNT	FDB	VARTAB	017B 4F 20			
0057 00 59	SBRPNT	FDB	SBRSTK	017D 54 4F			
0059	SBRSTK	RMB	16	017F 1E		FCB	\$1E
0069	FORSTK	RMB	48				
0099 01 03	DIMVAR	FDB	VARTAB				
00AC		ORG	\$00AC				
00AC 00 B0	BUFNXT	FDB	\$00B0				
00AE 00 B0	ENDBUF	FDB	\$00B0				
00B0		ORG	\$00B0				
00B0	BUFFER	RMB	\$50				

0180	08	3F	FDB	GOTO	01C7	45	58		
0182	53		FCC	/SIZE/	01C9	54			
0183	49	5A			01CA	1E		FCB	\$1E
0185	45				01CB	0B	B6	FDB	NEXT
0186	1E		FCB	\$1E	01CD	45		FCC	/EEM/
0187	0A	68	FDB	SIZE	01CE	45	4D		
0189	54		FCC	/THEN/	01D0	1E		FCB	\$1E
018A	48	45			01D1	0A	84	FDB	REMARK
018C	4E				01D3	50		PAUMSG	FCC
018D	1E		FCB	\$1E	01D4	41	55		
018E	0C	28	FDB	IF2	01D6	53	45		
0190	50		FCC	/PRINT/	01D8	1E		FCB	\$1E
0191	52	49			01D9	08	68	FDB	PAUSE
0193	4E	54			01DB	20		FCB	\$20
0195	1E		FCB	\$1E	01DC	1E		COMEND	FCB
0196	09	40	FDB	PRINT	01DD	0A	44	IMPLET	FDB
0198	4C		FCC	/LET/	01DF			RMB	60
0199	45	54			021A			ASTACK	EQU
019B	1E		FCB	\$1E	021B	0D		RDYMSG	FCB
019C	0A	44	FDB	LET	021C	0A			FCB
019E	49		FCC	/INPUT/	021D	15			FCB
019F	4E	50			021E	0A			FCB
01A1	55	54			021F	15			FCB
01A3	1E		FCB	\$1E	0220	52			FCC
01A4	08	89	FDB	INPUT	0221	45	41		
01A6	49		FCC	/IF/	0223	44	59		
01A7	46				0225	1E		FCB	\$1E
01A8	1E		FCB	\$1E	0226	23		PROMPT	FCB
01A9	0C	13	FDB	IF	0227	00			FCB
01AB	45		FCC	/END/	0228	1E			FCB
01AC	4E	44			0229	1E			FCB
01AE	1E		FCB	\$1E	022A	10		PGCNTL	FCB
01AF	06	62	FDB	READY	022B	16			FCB
01B1	52		FCC	/RETURN/	022C	1E			FCB
01B2	45	54			022D	1E			FCB
01B4	55	52			022E	1E			FCB
01B6	4E				022F	45		ERRMS1	FCC
01B7	1E		FCB	\$1E	0230	52	52		
01B8	08	52	FDB	RETURN	0232	4F	52		
01BA	44		FCC	/DIM/	0234	23	20		
01BB	49	4D			0236	1E			FCB
01BD	1E		FCB	\$1E	0237	20		ERRMS2	FCC
01BE	0A	8A	FDB	DIM	0238	49	4E		
01C0	46		FCC	/FOR/	023A	20	4C		
01C1	4F	52			023C	49	4E		
01C3	1E		FCB	\$1E	023E	45	20		
01C4	0B	46	FDB	FOR	0240	1E		FCB	\$1E
01C6	4E		FCC	/NEXT/					

0241	86	3F	KEYBD	LDA	A	#\$3F	02AC	8D	E4	OUTPU2	BSR	OUTCH
0243	8D	4D		BSR		OUTCH	02AE	08		OUTPU3	INX	
0245	CE	00	B0	KEYBD0	LDX	#BUFFER	02AF	A6	00	OUTNCR	LDA	A 0,X
0248	C6	0A		LDA	B	#10	02B1	81	1E		CMP	A #\$1E
024A	8D	4B		KEYBD1	BSR	INCH	02B3	26	F7		BNE	OUTPU2
024C	81	00		CMP	A	#\$00	02B5	39			RTS	
024E	26	06		BNE		KEYB11	02B6	8D	12	CRLF	BSR	PUSHX
0250	5A			DEC	B		02B8	CE	02	C0	LDX	#CRLFST
0251	26	F7		BNE		KEYBD11	02BB	8D	F2		BSR	OUTNCR
0253	7E	06	62	KEYB10	JMP	READY	02BD	8D	20		BSR	PULLX
0256	91	45		KEYB11	CMP	A CANCEL	02BF	39			RTS	
0258	27	26		BEQ		DEL	02C0	00		CRLFST	FCB	\$00
025A	81	0D		CMP	A	#\$0D	02C1	0D			FCB	\$0D
025C	27	2B		BEQ		IEXIT	02C2	0A			FCB	\$0A
025E	81	0A		KEYBD2	CMP	A #\$0A	02C3	15			FCB	\$15
0260	27	E8		BEQ		KEYBD1	02C4	1E		CREND	FCB	\$1E
0262	81	15		CMP	A	#\$15	02C5	FF			FCB	\$\$\$,\$\$F
0264	27	E4		BEQ		KEYBD1	02C6	FF				
0266	81	13		CMP	A	#\$13	02C7	FF			FCB	\$\$\$,\$\$F
0268	27	E0		BEQ		KEYBD1	02C8	FF				
026A	91	44		KEYB55	CMP	A BACKSP	02C9	1E			FCB	\$1E
026C	26	08		BNE		KEYBD3	02CA	DF	38	PUSHX	STX	PUSHTX
026E	8C	00	B0	CPX		#BUFFER	02CC	DE	3A		LDX	XSTACK
0271	27	D7		BEQ		KEYBD1	02CE	09			DEX	
0273	09			DEX			02CF	09			DEX	
0274	20	D4		BRA		KEYBD1	02D0	DF	3A		STX	XSTACK
0276	8C	00	F7	KEYBD3	CPX	#BUFFER+71	02D2	36			PSH	A
0279	27	CF		BEQ		KEYBD1	02D3	96	38		LDA	A PUSHTX
027B	A7	00		STA	A	0,X	02D5	A7	00		STA	A 0,X
027D	08			INX			02D7	96	39		LDA	A PUSHTX+1
027E	20	CA		BRA		KEYBD1	02D9	A7	01		STA	A 1,X
0280	8D	34		DEL	BSR	CRLF	02DB	32			PUL	A
0282	CE	02	26	CNTLIN	LDX	#PROMPT	02DC	DE	38		LDX	PUSHTX
0285	8D	28		BSR		OUTNCR	02DE	39			RTS	
0287	20	BC		BRA		KEYBD0	02DF	DE	3A	PULLX	LDX	XSTACK
0289	86	1E		IEXIT	LDA	A #\$1E	02E1	EE	00		LDX	0,X
028B	A7	00		STA	A	X	02E3	7C	00	3B	INC	XSTACK+1
028D	DF	AE		STX		ENDBUF	02E6	7C	00	3B	INC	XSTACK+1
028F	8D	25		BSR		CRLF	02E9	39			RTS	
0291	39			RTS			02EA	36		STORE	PSH	A
							02EB	37			PSH	B
0292	8D	06		OUTCH	BSR	BREAK	02EC	8D	DC		BSR	PUSHX
0294	7E	E1	D1		JMP	OUTEEE	02EE	BD	04	70	JSR	PULLAE
E1D1				OUTEEE	EQU	\$E1D1	02F1	DE	51		LDX	AESTK
							02F3	08			INX	
0297	7E	E1	AC	INCH	JMP	INEEE	02F4	08			INX	
							02F5	DF	51		STX	AESTK
029A	7E	02	9D	BREAK	JMP	BREAK1	02F7	09			DEX	
029D	36			BREAK1	PSH	A	02F8	EE	00		LDX	0,X
029E	B6	80	04		LDA	A PIAD	02FA	A7	00		STA	A 0,X
8004				PIAD	EQU	\$8004	02FC	E7	01		STA	B 1,X
02A1	2B	03			BMI	BREAK2	02FE	8D	DF		BSR	PULLX
02A3	7E	06	62		JMP	READY	0300	33			PUL	B
02A6	32			BREAK2	PUL	A	0301	32			PUL	A
02A7	39				RTS		0302	39			RTS	
E1AC				INEEE	EQU	\$E1AC	0303	8D	C5	IND	BSR	PUSHX
02A8				OUTPUT	EQU	*	0305	36			PSH	A
02A8	8D	05			BSR	OUTNCR	0306	37			PSH	B
02AA	20	0A			BRA	CRLF	0307	DE	51		LDX	AESTK



0309	08		INX		0373	BD 02 CA	JSR	PUSHX
030A	08		INX		0376	96 3C	LDA A	RNDVAL
030B	DF 51		STX	AESTK	0378	D6 3D	LDA B	RNDVAL+1
030D	09		DEX		037A	CE 00 00	LDX	#0000
030E	EE 00		LDX	0,X	037D	E9 01	RAND1	ADC B 1,X
0310	A6 00		LDA A	0,X	037F	A9 00		ADC A 0,X
0312	E6 01		LDA B	1,X	0381	08		INX
0314	BD 04 65		JSR	PUSHAE	0382	08		INX
0317	33		PUL B		0383	8C 00 3C		CPX #RNDVAL
0318	32		PUL A		0386	26 F5		BNE RAND1
0319	8D C4		BSR	PULLX	0388	84 7F		AND A #\$7F
031B	39		RTS		038A	97 3C		STA A RNDVAL
031C	DE 2A	LIST	LDX	NEXTBA	038C	D7 3D		STA B RNDVAL+1
031E	DF 2C		STX	WORKBA	038E	DF 20		STX INDEX1
0320	DE 2E		LDX	SOURCE	0390	96 20		LDA A INDEX1
0322	20 02		BRA	LIST1	0392	D6 21		LDA B INDEX1+1
0324	DE 24	LIST0	LDX	INDEX3	0394	7E 04 46		JMP TSTV9
0326	9C 2C	LIST1	CPX	WORKBA	0397	BD 05 E7	TSTV	JSR SKIPSP
0328	27 05		BEQ	LEXIT	039A	BD 02 9A		JSR BREAK
032A	8D 04		BSR	OUTLIN	039D	BD 04 4F		JSR TSTLTR
032C	08		INX		03A0	24 01		BCC TSTV1
032D	20 F7		BRA	LIST1	03A2	39		RTS
032F	39	LEXIT	RTS		03A3	81 52	TSTV1	CMP A #'R
0330	A6 00	OUTLIN	LDA A	0,X	03A5	26 06		BNE TSTV2
0332	7F 00 42		CLR	PRCNT	03A7	E6 01		LDA B 1,X
0335	08		INX		03A9	C1 4E		CMP B #'N
0336	E6 00		LDA B	0,X	03AB	27 BE		BEQ RANDOM
0338	08		INX		03AD	BD 02 CA	TSTV2	JSR PUSHX
0339	7F 00 4C		CLR	TSIGN	03B0	80 40		SUB A #\$40
033C	BD 09 FD		JSR	PRNO	03B2	97 56		STA A VARPNT+1
033F	8D 22		BSR	PRINSP	03B4	48		ASL A
0341	A6 00	OUTLI1	LDA A	0,X	03B5	9B 56		ADD A VARPNT+1
0343	08		INX		03B7	97 56		STA A VARPNT+1
0344	8D 84		BSR	PUSHX	03B9	DE 55		LDX VARPNT
0346	CE 01 52		LDX	#COMMAN	03BB	96 55		LDA A VARPNT
0349	DF 4A		STX	KEYWD	03BD	D6 56		LDA B VARPNT+1
034B	97 4B		STA A	KEYWD+1	03BF	6D 02		TST 2,X
034D	DE 4A		LDX	KEYWD	03C1	26 03		BNE TSTV20
034F	09		DEX		03C3	7E 04 46		JMP TSTV9
0350	09	OUTLI2	DEX		03C6	EE 00	TSTV20	LDX 0,X
0351	A6 00		LDA A	0,X	03C8	DF 3E		STX DIMPNT
0353	81 1E		CMP A	#\$1E	03CA	08		INX
0355	26 F9		BNE	OUTLI2	03CB	08		INX
0357	08		INX		03CC	DF 40		STX DIMCAL
0358	08		INX		03CE	BD 02 DF		JSR PULLX
0359	08		INX		03D1	BD 05 ED		JSR INXSKP
035A	BD 02 AF		JSR	OUTNCR	03D4	81 28		CMP A #'(
035D	BD 02 DF		JSR	PULLX	03D6	27 03		BEQ TSTV22
0360	7E 02 A8		JMP	OUTPUT	03D8	7E 08 D4	TSTVER	JMP DBLLTR
0363	36	PRINSP	PSH A		03DB	08	TSTV22	INX
0364	86 20		LDA A	#\$20	03DC	BD 04 BF		JSR EXPR
0366	BD 02 92		JSR	OUTCH	03DF	BD 02 CA		JSR PUSHX
0369	32		PUL A		03E2	BD 04 70		JSR PULLAE
036A	39		RTS		03E5	4D		TST A
036B	08	RANDOM	INX		03E6	27 03		BEQ TSTV3
036C	08		INX		03E8	7E 0A D7	SUBER1	JMP SUBERR
036D	A6 00		LDA A	0,X	03EB	DE 3E	TSTV3	LDX DIMPNT
036F	81 44		CMP A	#'D	03ED	5D		TST B
0371	26 65		BNE	TSTVER	03EE	27 F8		BEQ SUBER1

03F0	E1	00		CMP	B	0,X	0460	39			RTS
03F2	22	F4		BHI		SUBER1	0461	0C	YESNO		CLC
03F4	A6	01		LDA	A	1,X	0462	39			RTS
03F6	97	4F		STA	A	ANUMB	0463	8D 0B	PULPSH	BSR	PULLAE
03F8	27	30		BEQ		TST666	0465	9F 28	PUSHAE	STS	SAVESP
03FA	DE	40		LDX		DIMCAL	0467	9E 51		LDS	AESTK
03FC	5A		TSTV4	DEC	B		0469	37		PSH	B
03FD	27	09		BEQ		TSTV6	046A	36		PSH	A
03FF	96	4F		LDA	A	ANUMB	046B	9F 51		STS	AESTK
0401	08		TSTV5	INX			046D	9E 28		LDS	SAVESP
0402	08			INX			046F	39		RTS	
0403	4A			DEC	A						
0404	26	FB		BNE		TSTV5					
0406	20	F4		BRA		TSTV4	0470	9F 28	PULLAE	STS	SAVESP
0408	DF	40	TSTV6	STX		DIMCAL	0472	9E 51		LDS	AESTK
040A	BD	02 DF		JSR		PULLX	0474	32		PUL	A
040D	BD	05 E7		JSR		SKIPSP	0475	33		PUL	B
0410	81	2C		CMP	A	#',	0476	9F 51		STS	AESTK
0412	26	C4		BNE		TSTVER	0478	9E 28		LDS	SAVESP
0414	08			INX			047A	39		RTS	
0415	BD	04 BF		JSR		EXPR	047B	BD 05 E7	FACT	JSR	SKIPSP
0418	BD	02 CA		JSR		PUSHX	047E	BD 03 97		JSR	TSTV
041B	BD	04 70		JSR		PULLAE	0481	25 04		BCS	FACT0
041E	4D			TST	A		0483	BD 03 03		JSR	IND
041F	26	C7		BNE		SUBER1	0486	39		RTS	
0421	DE	3E		LDX		DIMPNT	0487	BD 08 D9	FACT0	JSR	TSTN
0423	5D			TST	B		048A	25 01		BCS	FACT1
0424	27	C2		BEQ		SUBER1	048C	39		RTS	
0426	E1	01		CMP	B	1,X	048D	81 28	FACT1	CMP	A #' (
0428	22	BE		BHI		SUBER1	048F	26 0C		BNE	FACT2
042A	DE	40	TST666	LDX		DIMCAL	0491	08		INX	
042C	08		TSTV7	INX			0492	8D 2B		BSR	EXPR
042D	08			INX			0494	BD 05 E7		JSR	SKIPSP
042E	5A			DEC	B		0497	81 29		CMP	A #' )
042F	26	FB		BNE		TSTV7	0499	26 02		BNE	FACT2
0431	09			DEX			049B	08		INX	
0432	09			DEX			049C	39		RTS	
0433	DF	40		STX		DIMCAL	049D	C6 0D	FACT2	LDA	B #13
0435	BD	02 DF		JSR		PULLX	049F	7E 06 94		JMP	ERROR
0438	BD	05 E7		JSR		SKIPSP	04A2	8D D7	TERM	BSR	FACT
043B	81	29	TSTV8	CMP	A	#' )	04A4	BD 05 E7	TERM0	JSR	SKIPSP
043D	26	99		BNE		TSTVER	04A7	81 2A		CMP	A #' *
043F	BD	02 CA		JSR		PUSHX	04A9	26 07		BNE	TERM1
0442	96	40		LDA	A	DIMCAL	04AB	08		INX	
0444	D6	41		LDA	B	DIMCAL+1	04AC	8D CD		BSR	FACT
0446	BD	02 DF	TSTV9	JSR		PULLX	04AE	8D 41		BSR	MPY
0449	08			INX			04B0	20 F2		BRA	TERM0
044A	BD	04 65		JSR		PUSHAE	04B2	81 2F	TERM1	CMP	A #' /
044D	0C			CLC			04B4	26 08		BNE	TERM2
044E	39			RTS			04B6	08		INX	
044F	81	41	TSTLTR	CMP	A	#\$41	04B7	8D C2		BSR	FACT
0451	2B	0C		BMI		NONO	04B9	BD 05 44		JSR	DIV
0453	81	5A		CMP	A	#\$5A	04BC	20 E6		BRA	TERM0
0455	2F	0A		BLE		YESNO	04BE	39	TERM2	RTS	
0457	81	30	TESTNO	CMP	A	#\$30	04BF	BD 05 E7	EXPR	JSR	SKIPSP
0459	2B	04		BMI		NONO	04C2	81 2D		CMP	A #' -
045B	81	39		CMP	A	#\$39	04C4	26 08		BNE	EXPR0
045D	2F	02		BLE		YESNO	04C6	08		INX	
045F	0D		NONO	SEC			04C7	8D D9		BSR	TERM

04C9	BD 05 8F		JSR	NEG	053D	8B 80		ADD	A	#\$80
04CC	20 07		BRA	EXPR1	053F	97 4C	MDS3	STA	A	TSIGN
04CE	81 2B	EXPR0	CMP	A #' +	0541	09		DEX		
04D0	26 01		BNE	EXPR00	0542	09		DEX		
04D2	08		INX		0543	39		RTS		
04D3	8D CD	EXPR00	BSR	TERM	0544	8D DF	DIV	BSR		MDSIGN
04D5	BD 05 E7	EXPR1	JSR	SKIPSP	0546	6D 01		TST		1,X
04D8	81 2B		CMP	A #' +	0548	26 09		BNE		DIV33
04DA	26 08		BNE	EXPR2	054A	6D 02		TST		2,X
04DC	08		INX		054C	26 05		BNE		DIV33
04DD	8D C3		BSR	TERM	054E	C6 08		LDA	B	#8
04DF	BD 05 A5		JSR	ADD	0550	7E 06 94		JMP		ERROR
04E2	20 F1		BRA	EXPR1	0553	86 01	DIV33	LDA	A	#1
04E4	81 2D	EXPR2	CMP	A #' -	0555	4C	DIV4	INC	A	
04E6	26 08		BNE	EXPR3	0556	68 02		ASL		2,X
04E8	08		INX		0558	69 01		ROL		1,X
04E9	8D B7		BSR	TERM	055A	2B 04		BMI		DIV5
04EB	BD 05 A3		JSR	SUB	055C	81 11		CMP	A	#17
04EE	20 E5		BRA	EXPR1	055E	26 F5		BNE		DIV4
04F0	39	EXPR3	RTS		0560	A7 00	DIV5	STA	A	0,X
04F1	8D 32	MPY	BSR	MDSIGN	0562	A6 03		LDA	A	3,X
04F3	86 0F		LDA	A #15	0564	E6 04		LDA	B	4,X
04F5	A7 00		STA	A 0,X	0566	6F 03		CLR		3,X
04F7	5F		CLR	B	0568	6F 04		CLR		4,X
04F8	4F		CLR	A	056A	E0 02	DIV163	SUB	B	2,X
04F9	64 03	MPY4	LSR	3,X	056C	A2 01		SBC	A	1,X
04FB	66 04		ROR	4,X	056E	24 07		BCC		DIV165
04FD	24 0B		BCC	MPY5	0570	EB 02		ADD	B	2,X
04FF	EB 02		ADD	B 2,X	0572	A9 01		ADC	A	1,X
0501	A9 01		ADC	A 1,X	0574	0C		CLC		
0503	24 05		BCC	MPY5	0575	20 01		BRA		DIV167
0505	86 02	MPYERR	LDA	A #2	0577	0D	DIV165	SEC		
0507	7E 06 94		JMP	ERROR	0578	69 04	DIV167	ROL		4,X
050A	68 02	MPY5	ASL	2,X	057A	69 03		ROL		3,X
050C	69 01		ROL	1,X	057C	64 01		LSR		1,X
050E	6A 00		DEC	0,X	057E	66 02		ROR		2,X
0510	26 E7		BNE	MPY4	0580	6A 00		DEC		0,X
0512	4D		TST	A	0582	26 E6		BNE		DIV163
0513	2B F0		BMI	MPYERR	0584	7D 00 4C		TST		TSIGN
0515	7D 00 4C		TST	TSIGN	0587	2A 02		BPL		DIV169
0518	2A 03		BPL	MPY6	0589	8D 04		BSR		NEG
051A	BD 05 9C		JSR	NEGAB	058B	BD 02 DF	DIV169	JSR		PULLX
051D	E7 04	MPY6	STA	B 4,X	058E	39		RTS		
051F	A7 03		STA	A 3,X	058F	36	NEG	PSH	A	
0521	BD 02 DF		JSR	PULLX	0590	37		PSH	B	
0524	39		RTS		0591	BD 04 70		JSR		PULLAE
0525	BD 02 CA	MDSIGN	JSR	PUSHX	0594	8D 06		BSR		NEGAB
0528	4F		CLR	A	0596	BD 04 65		JSR		PUSHAE
0529	DE 51		LDX	AESTK	0599	33		PUL	B	
052B	6D 01		TST	1,X	059A	32		PUL	A	
052D	2A 04		BPL	MDS2	059B	39		RTS		
052F	8D 5E		BSR	NEG	059C	43	NEGAB	COM	A	
0531	86 80		LDA	A #\$80	059D	53		COM	B	
0533	08	MDS2	INX		059E	CB 01		ADD	B	#1
0534	08		INX		05A0	89 00		ADC	A	#0
0535	DF 51		STX	AESTK	05A2	39		RTS		
0537	6D 01		TST	1,X	05A3	8D EA	SUB	BSR		NEG
0539	2A 04		BPL	MDS3	05A5	BD 04 70	ADD	JSR		PULLAE
053B	8D 52		BSR	NEG	05A8	D7 50	ADD1	STA	B	BNUMB

05AA	97	4F		STA	A	ANUMB	061C	34		DES
05AC	BD	04	70	JSR		PULLAE	061D	08	LOOP4	INX
05AF	DB	50		ADD	B	BNUMB	061E	32		PUL A
05B1	99	4F		ADC	A	ANUMB	061F	E6 00		LDA B 0,X
05B3	BD	04	65	JSR		PUSHAE	0621	C1 1E		CMP B #\$1E
05B6	0C			CLC			0623	27 13		BEQ LOOP7
05B7	39			RTS			0625	11		CBA
05B8	96	32	FINDNO	LDA	A	HIGHLN	0626	27 F5		BEQ LOOP4
05BA	D6	33		LDA	B	HIGHLN+1	0628	08	LOOP5	INX
05BC	D0	31		SUB	B	PACKLN+1	0629	8C 01 DC		CPX #COMEND
05BE	92	30		SBC	A	PACKLN	062C	27 12		BEQ CCEXIT
05C0	25	1C		BCS		HIBALL	062E	E6 00		LDA B 0,X
05C2	DE	2E	FINDN1	LDX		SOURCE	0630	C1 1E		CMP B #\$1E
05C4	BD	04	63	FIND0	JSR	PULPSH	0632	26 F4		BNE LOOP5
05C7	E0	01		SUB	B	1,X	0634	08	LOOP6	INX
05C9	A2	00		SBC	A	0,X	0635	08		INX
05CB	25	13		BCS		FIND3	0636	20 E2		BRA LOOP3
05CD	26	03		BNE		FIND1	0638	08	LOOP7	INX
05CF	5D			TST	B		0639	9F AC		STS BUFNXT
05D0	27	0F		BEQ		FIND4	063B	9F 34		STS BASPNT
05D2	08		FIND1	INX			063D	9E 28	LOOP8	LDS SAVESP
05D3	8D	18	FIND2	BSR		INXSKP	063F	39		RTS
05D5	81	1E		CMP	A	#\$1E	0640	9E 28	CCEXIT	LDS SAVESP
05D7	26	FA		BNE		FIND2	0642	CE 01 DD		LDX #IMPLET
05D9	08			INX			0645	39		RTS
05DA	9C	2A		CPX		NEXTBA	0646	DE 2E	START	LDX SOURCE
05DC	26	E6		BNE		FIND0	0648	DF 2A		STX NEXTBA
05DE	DE	2A	HIBALL	LDX		NEXTBA	064A	DF 2C		STX WORKBA
05E0	0D		FIND3	SEC			064C	DF 48		STX ARRTAB
05E1	DF	2C	FIND4	STX		WORKBA	064E	09		DEX
05E3	BD	04	70	JSR		PULLAE	064F	4F		CLR A
05E6	39			RTS			0650	08	START2	INX
05E7	A6	00	SKIPSP	LDA	A	0,X	0651	A7 00		STA A 0,X
05E9	81	20		CMP	A	#\$20	0653	9C 46		CPX MEMEND
05EB	26	03		BNE		SKIPEX	0655	26 F9		BNE START2
05ED	08		INXSKP	INX			0657	4F	START1	CLR A
05EE	20	F7		BRA		SKIPSP	0658	97 30		STA A PACKLN
05F0	39		SKIPEX	RTS			065A	97 31		STA A PACKLN+1
05F1	BD	08	F4	LINENO	JSR	INTSTN	065C	97 42		STA A PRCNT
05F4	24	05		BCC		LINE1	065E	DE 30		LDX PACKLN
05F6	C6	07		LDA	B	#7	0660	DF 32		STX HIGHLN
05F8	7E	06	94	JMP		ERROR	0662	8E A0 45	READY	LDS #A045
05FB	BD	04	63	LINE1	JSR	PULPSH	0665	CE 02 1B		LDX #RDYMSG
05FE	97	30		STA	A	PACKLN	0668	BD 02 A8		JSR OUTPUT
0600	D7	31		STA	B	PACKLN+1	066B	8E A0 45	NEWLIN	LDS #A045
0602	DF	AC		STX		BUFNXT	066E	CE A0 7F		LDX #A07F
0604	39			RTS			0671	DF 3A		STX XSTACK
0605	DE	34	NXTLIN	LDX		BASPNT	0673	7F 00 42		CLR PRCNT
0607	A6	00	NXTL12	LDA	A	0,X	0676	BD 02 82	NEWL3	JSR CNTLIN
0609	08			INX			0679	CE 00 B0		LDX #BUFFER
060A	81	1E		CMP	A	#\$1E	067C	BD 05 E7		JSR SKIPSP
060C	26	F9		BNE		NXTL12	067F	DF AC		STX BUFNXT
060E	DF	36		STX		BASLIN	0681	BD 04 57		JSR TESTNO
0610	39			RTS			0684	25 03		BCS LOOP2
0611	8D	D4	CCODE	BSR		SKIPSP	0686	7E 07 42		JMP NUMBER
0613	DF	26		STX		INDEX4	0689	81 1E	LOOP2	CMP A #\$1E
0615	9F	28		STS		SAVESP	068B	27 DE		BEQ NEWLIN
0617	CE	01	51	LDX		#COMMAN-1	068D	BD 06 11		JSR CCODE
061A	9E	26	LOOP3	LDS		INDEX4	0690	EE 00		LDX 0,X

0692	6E	00		JMP	0,X	0715	20	04		BRA	CLIST3
0694	8E	A0 45	ERROR	LDS	#\$A045	0717	08		CLIST2	INX	
0697	BD	02 B6		JSR	CRLF	0718	BD	08 F4		JSR	INTSTN
069A	CE	02 2F		LDX	#ERRMS1	071B	4F		CLIST3	CLR A	
069D	BD	02 AF		JSR	OUTNCR	071C	C6	01		LDA B	#1
06A0	4F			CLR A		071E	BD	05 A8		JSR	ADD1
06A1	BD	04 65		JSR	PUSHAЕ	0721	BD	05 C2		JSR	FINDN1
06A4	BD	09 E2		JSR	PRN	0724	BD	03 24		JSR	LIST0
06A7	CE	02 37		LDX	#ERRMS2	0727	20	03		BRA	CLIST5
06AA	BD	02 AF		JSR	OUTNCR	0729	BD	03 1C	CLIST4	JSR	LIST
06AD	5F			CLR B		072C	7E	0A 84	CLIST5	JMP	REMARK
06AE	96	36		LDA A	BASLIN	072F	01			NOP	
06B0	27	06		BEQ	ERROR2						
06B2	DE	36		LDX	BASLIN	0730	BD	06 05	PATCH	JSR	NXTLIN
06B4	A6	00		LDA A	0,X	0733	CE	07 F5		LDX	#BASIC
06B6	E6	01		LDA B	1,X	0736	FF	A0 46		STX	#\$A046
06B8	BD	09 FD	ERROR2	JSR	PRN0	0739	8E	A0 40		LDS	#\$A040
06BB	BD	02 B6		JSR	CRLF	073C	BF	A0 08		STS	SP
06BE	20	A2		BRA	READY	A008			SP	EQU	#\$A008
06C0	DE	2E	RUN	LDX	SOURCE	073F	7E	E0 E3		JMP	CONTRL
06C2	DF	36		STX	BASLIN	E0E3			CONTRL	EQU	#\$E0E3
06C4	CE	00 59		LDX	#SBRSTK	0742	BD	05 F1	NUMBER	JSR	LINENO
06C7	DF	57		STX	SBRPNT	0745	BD	05 B8	NUM1	JSR	FINDNO
06C9	CE	00 69		LDX	#FORSTK	0748	24	0A		BCC	DELREP
06CC	DF	53		STX	FORPNT	074A	DE	2C		LDX	WORKBA
06CE	CE	A0 7F		LDX	#\$A07F	074C	9C	2A		CPX	NEXTBA
06D1	DF	3A		STX	XSTACK	074E	27	1E		BEQ	CAPPEN
06D3	DE	2A		LDX	NEXTBA	0750	8D	50		BSR	INSERT
06D5	DF	48		STX	ARRTAB	0752	20	17		BRA	NEXIT
06D7	4F			CLR A		0754	DE	AC	DELREP	LDX	BUFNXT
06D8	09			DEX		0756	BD	05 E7		JSR	SKIPSP
06D9	08	RUN1		INX		0759	81	1E		CMP A	#\$1E
06DA	A7	00		STA A	0,X	075B	26	0A		BNE	REPLAC
06DC	9C	46		CPX	MEMEND	075D	DE	2A		LDX	NEXTBA
06DE	26	F9		BNE	RUN1	075F	9C	2E		CPX	SOURCE
06E0	CE	01 03		LDX	#VARTAB	0761	27	08		BEQ	NEXIT
06E3	C6	4E		LDA B	#78	0763	8D	11		BSR	DELETE
06E5	A7	00	RUN2	STA A	0,X	0765	20	04		BRA	NEXIT
06E7	08			INX		0767	8D	0D	REPLAC	BSR	DELETE
06E8	5A			DEC B		0769	8D	37		BSR	INSERT
06E9	26	FA		BNE	RUN2	076B	7E	06 6B	NEXIT	JMP	NEWLIN
06EB	7E	07 F5		JMP	BASIC	076E	8D	32	CAPPEN	BSR	INSERT
06EE	CE	02 2A	CLIST	LDX	#PGCNTL	0770	DE	30		LDX	PACKLN
06F1	BD	02 A8		JSR	OUTPUT	0772	DF	32		STX	HIGHLN
06F4	DE	34		LDX	BASPNT	0774	20	F5		BRA	NEXIT
06F6	BD	05 E7	CLIST1	JSR	SKIPSP	0776	9F	28	DELETE	STS	SAVESP
06F9	81	1E		CMP A	#\$1E	0778	DE	2C		LDX	WORKBA
06FB	27	2C		BEQ	CLIST4	077A	9E	2A		LDS	NEXTBA
06FD	BD	08 F4		JSR	INTSTN	077C	C6	02		LDA B	#2
0700	DF	34		STX	BASPNT	077E	08			INX	
0702	BD	05 C2		JSR	FINDN1	077F	08			INX	
0705	DF	24		STX	INDEX3	0780	34			DES	
0707	DE	34		LDX	BASPNT	0781	34			DES	
0709	36			PSH A		0782	A6	00	DEL2	LDA A	0,X
070A	BD	05 E7		JSR	SKIPSP	0784	34			DES	
070D	81	1E		CMP A	#\$1E	0785	08			INX	
070F	32			PUL A		0786	5C			INC B	
0710	26	05		BNE	CLIST2	0787	81	1E		CMP A	#\$1E
0712	BD	04 65		JSR	PUSHAЕ	0789	26	F7		BNE	DEL2

078B	9F	2A		STS	NEXTBA	07F9	26	03		BNE	BASIC1	
078D	9F	48		STS	ARRTAB	07FB	7E	06	62	BASIC0	JMP	READY
078F	DE	2C		LDX	WORKBA	07FE	7D	00	36	BASIC1	TST	BASLIN
0791	F7	07	99	STA	B DEL5+1	0801	27	F8			BEQ	BASIC0
				* IN AT	OBJECT TIME	0803	08				INX	
0794	9C	2A		DEL4	CPX	NEXTBA	0804	08			INX	
0796	27	07			BEQ	DELEX	0805	A6	00		LDA	A 0,X
0798	A6	00		DEL5	LDA	A 0,X	0807	08			INX	
079A	A7	00			STA	A 0,X	0808	DF	34		STX	BASPNT
079C	08				INX		080A	CE	01	52	LDX	#COMMAN
079D	20	F5			BRA	DEL4	080D	DF	4A		STX	KEYWD
079F	9E	28		DELEX	LDS	SAVESP	080F	97	4B		STA	A KEYWD+1
07A1	39				RTS		0811	CE	02	1A	LDX	#ASTACK
07A2	DE	AC		INSERT	LDX	BUFNXT	0814	DF	51		STX	AESTK
07A4	BD	06	11		JSR	CCODE	0816	DE	4A		LDX	KEYWD
07A7	DF	4A		INS1	STX	KEYWD	0818	EE	00		LDX	0,X
07A9	D6	AF			LDA	B ENDBUF+1	081A	6E	00	BASIC2	JMP	0,X
07AB	D0	AD			SUB	B BUFNXT+1	081C	DE	36	GOSUB	LDX	BASLIN
07AD	CB	04			ADD	B #\$04	081E	DF	20		STX	INDEX1
07AF	F7	07	CC		STA	B OFFSET+1	0820	BD	06	05	JSR	NXTLIN
07B2	DB	2B			ADD	B NEXTBA+1	0823	DE	57		LDX	SBRPNT
07B4	86	00			LDA	A #\$00	0825	8C	00	69	CPX	#SBRSTK+16
07B6	99	2A			ADC	A NEXTBA	0828	26	05		BNE	GOSUB1
07B8	91	46			CMP	A MEMEND	082A	C6	09		LDA	B #9
07BA	22	34			BHI	OVERFL	082C	7E	06	94	JMP	ERROR
07BC	D7	2B			STA	B NEXTBA+1	082F	96	36	GOSUB1	LDA	A BASLIN
07BE	97	2A			STA	A NEXTBA	0831	A7	00		STA	A 0,X
07C0	DE	2A			LDX	NEXTBA	0833	08			INX	
07C2	DF	48			STX	ARRTAB	0834	96	37		LDA	A BASLIN+1
07C4	9C	2C		INS2	CPX	WORKBA	0836	A7	00		STA	A 0,X
07C6	27	07			BEQ	BUFWR1	0838	08			INX	
07C8	09				DEX		0839	DF	57		STX	SBRPNT
07C9	A6	00			LDA	A 0,X	083B	DE	20		LDX	INDEX1
07CB	A7	00		OFFSET	STA	A 0,X	083D	DF	36		STX	BASLIN
07CD	20	F5			BRA	INS2	083F	DE	34	GOTO	LDX	BASPNT
07CF	DE	2C		BUFWR1	LDX	WORKBA	0841	BD	04	BF	JSR	EXPR
07D1	9F	28			STS	SAVESP	0844	BD	05	C2	JSR	FINDN1
07D3	96	30			LDA	A PACKLN	0847	24	05		BCC	GOTO2
07D5	A7	00			STA	A 0,X	0849	C6	07		LDA	B #7
07D7	08				INX		084B	7E	06	94	JMP	ERROR
07D8	96	31			LDA	A PACKLN+1	084E	DF	36	GOTO2	STX	BASLIN
07DA	A7	00			STA	A 0,X	0850	20	A3		BRA	BASIC
07DC	08				INX		0852	DE	57	RETURN	LDX	SBRPNT
07DD	96	4B			LDA	A KEYWD+1	0854	8C	00	59	CPX	#SBRSTK
07DF	A7	00			STA	A 0,X	0857	26	05		BNE	RETUR1
07E1	08				INX		0859	C6	0A		LDA	B #10
07E2	9E	AC			LDS	BUFNXT	085B	7E	06	94	JMP	ERROR
07E4	34				DES		085E	09		RETUR1	DEX	
07E5	32			BUF3	PUL	A	085F	09			DEX	
07E6	A7	00			STA	A 0,X	0860	DF	57		STX	SBRPNT
07E8	08				INX		0862	EE	00		LDX	0,X
07E9	81	1E			CMP	A #\$1E	0864	DF	36		STX	BASLIN
07EB	26	F8			BNE	BUF3	0866	20	8D		BRA	BASIC
07ED	9E	28			LDS	SAVESP	0868	CE	01	D3	LDX	#PAUMSG
07EF	39				RTS		086B	BD	02	AF	JSR	OUTNCR
07F0	C6	0E		OVERFL	LDA	B #14	086E	BD	03	63	JSR	PRINSF
07F2	7E	06	94		JMP	ERROR	0871	DE	36		LDX	BASLIN
07F5	DE	36		BASIC	LDX	BASLIN	0873	A6	00		LDA	A 0,X
07F7	9C	2A			CPX	NEXTBA	0875	08			INX	

0876	E6	00		LDA	B	0,X	08F3	09		DEX			
0878	08			INX			08F4	7F	00 4C	INTSTN	CLR	TSIGN	
0879	BD	09	FD	JSR		PRN0	08F7	BD	05 E7	INNUM0	JSR	SKIPSP	
087C	BD	02	97	PAUSE1	JSR	INCH	08FA	BD	04 57		JSR	TESTNO	
087F	81	0D		CMP	A	#\$0D	08FD	24	01		BCC	INNUM1	
0881	26	F9		BNE		PAUSE1	08FF	39			RTS		
0883	BD	02	B6	JSR		CRLF	0900	09		INNUM1	DEX		
0886	7E	0A	84	PAUSE2	JMP	REMARK	0901	4F			CLR	A	
0889	96	34		INPUT	LDA	A	0902	5F			CLR	B	
088B	26	04			BNE	INPUT0	0903	08		INNUM2	INX		
088D	C6	0C			LDA	B	0904	36			PSH	A	
088F	20	20			BRA		0905	A6	00		LDA	A	0,X
0891	BD	02	41	INPUT0	JSR	KEYBD	0907	BD	04 57		JSR	TESTNO	
0894	CE	00	B0		LDX	#BUFFER	090A	25	26		BCS	INNEX	
0897	DF	AC			STX	BUFNXT	090C	80	30		SUB	A	#\$30
0899	DE	34			LDX	BASPNT	090E	97	4E		STA	A	TNUMB
089B	BD	03	97	INPUT1	JSR	TSTV	0910	32			PUL	A	
089E	25	2C			BCS	INPEX	0911	58			ASL	B	
08A0	DF	34			STX	BASPNT	0912	49			ROL	A	
08A2	DE	AC			LDX	BUFNXT	0913	25	18		BCS		INNERR
08A4	8D	43		INPUT2	BSR	INNUM	0915	D7	50		STA	B	BNUMB
08A6	24	14			BCC	INPUT4	0917	97	4F		STA	A	ANUMB
08A8	09				DEX		0919	58			ASL	B	
08A9	A6	00			LDA	A	091A	49			ROL	A	
08AB	81	1E			CMP	A	091B	25	10		BCS		INNERR
08AD	27	05			BEQ	INPUTS	091D	58			ASL	B	
08AF	C6	02			LDA	B	091E	49			ROL	A	
08B1	7E	06	94	INPERR	JMP	ERROR	091F	25	0C		BCS		INNERR
08B4	BD	02	41	INPUTS	JSR	KEYBD	0921	DB	50		ADD	B	BNUMB
08B7	CE	00	B0		LDX	#BUFFER	0923	99	4F		ADC	A	ANUMB
08BA	20	E8			BRA	INPUT2	0925	25	06		BCS		INNERR
08BC	BD	02	EA	INPUT4	JSR	STORE	0927	DB	4E		ADD	B	TNUMB
08BF	08				INX		0929	89	00		ADC	A	#0
08C0	DF	AC			STX	BUFNXT	092B	24	D6		BCC		INNUM2
08C2	DE	34			LDX	BASPNT	092D	C6	02	INNERR	LDA	B	#2
08C4	BD	05	E7		JSR	SKIPSP	092F	7E	06 94		JMP		ERROR
08C7	08				INX		0932	32		INNEX	PUL	A	
08C8	81	2C			CMP	A	0933	7D	00 4C		TST		TSIGN
08CA	27	CF			BEQ	INPUT1	0936	27	03		BEQ		INNEX2
08CC	09			INPEX	DEX		0938	BD	05 9C		JSR		NEGAB
08CD	7F	00	42		CLR	PRCNT	093B	BD	04 65	INNEX2	JSR		PUSHAE
08D0	81	1E			CMP	A	093E	0C			CLC		
08D2	27	B2			BEQ	PAUSE2	093F	39			RTS		
08D4	C6	03		DBLLTR	LDA	B	0940	DE	34	PRINT	LDX		BASPNT
08D6	7E	06	94		JMP	ERROR	0942	BD	05 E7	PRINT0	JSR		SKIPSP
08D9	8D	19		TSTN	BSR	INTSTN	0945	81	22		CMP	A	#'"
08DB	25	06			BCS	TSTNO	0947	26	18		BNE		PRINT4
08DD	BD	04	70		JSR	PULLAE	0949	08			INX		
08E0	4D				TST	A	094A	A6	00	PRINT1	LDA	A	0,X
08E1	2A	02			BPL	TSTN1	094C	08			INX		
08E3	0D			TSTNO	SEC		094D	81	22		CMP	A	#'"
08E4	39				RTS		094F	27	5A		BEQ		PRIN88
08E5	BD	04	65	TSTN1	JSR	PUSHAE	0951	81	1E		CMP	A	#\$1E
08E8	39				RTS		0953	26	04		BNE		PRINT2
08E9	BD	05	E7	INNUM	JSR	SKIPSP	0955	C6	04		LDA	B	#4
08EC	97	4C			STA	A	0957	20	34		BRA		PRINTE
08EE	08				INX		0959	BD	02 92	PRINT2	JSR		OUTCH
08EF	81	2D			CMP	A	095C	BD	09 D2		JSR		ENLINE
08F1	27	04			BEQ	INNUM0	095F	20	E9		BRA		PRINT1

0961	81	1E	PRINT4	CMP	A	#\$1E	09D6	91	43	CMP	A	MAXLIN
0963	26	14		BNE		PRINT6	09D8	26	04	BNE		ENLEXT
0965	09			DEX			09DA	BD	02	B6	JSR	CRLF
0966	A6	00		LDA	A	0,X	09DD	4F			CLR	A
0968	08			INX			09DE	97	42	ENLEXT	STA	A
0969	81	3B		CMP	A	#';	09E0	32			PUL	A
096B	27	06		BEQ		PRINT5	09E1	39			RTS	
096D	BD	02	B6	JSR		CRLF	09E2	BD	03	63	PRN	JSR
0970	7F	00	42	CLR		PRCNT	09E5	8D	EB		BSR	ENLINE
0973	08		PRINT5	INX			09E7	86	FF		LDA	A
0974	DF	36		STX		BASLIN	09E9	97	4C		STA	A
0976	7E	07	F5	JMP		BASIC	09EB	BD	04	70	JSR	PULLAE
0979	81	54	PRINT6	CMP	A	#'T	09EE	4D			TST	A
097B	26	28		BNE		PRINT8	09EF	2A	0C		BPL	PRN0
097D	E6	01		LDA	B	1,X	09F1	BD	05	9C	JSR	NEGAB
097F	C1	41		CMP	B	#'A	09F4	36			PSH	A
0981	26	22		BNE		PRINT8	09F5	86	2D		LDA	A
0983	08			INX			09F7	BD	02	92	JSR	OUTCH
0984	08			INX			09FA	8D	D6		BSR	ENLINE
0985	A6	00		LDA	A	0,X	09FC	32			PUL	A
0987	81	42		CMP	A	#'B	09FD	BD	02	CA	PRN0	JSR
0989	27	05		BEQ		PRINT7	0A00	CE	0A	3A	LDX	#KIOK
098B	C6	0B		LDA	B	#11	0A03	7F	00	4E	PRN1	CLR
098D	7E	06	94	PRINTE	JMP	ERROR	0A06	E0	01		PRN2	SUB
0990	08		PRINT7	INX			0A08	A2	00		SBC	A
0991	BD	04	BF	JSR		EXPR	0A0A	25	05		BCS	PRN5
0994	BD	04	70	JSR		PULLAE	0A0C	7C	00	4E	INC	TNUMB
0997	D0	42		SUB	B	PRCNT	0A0F	20	F5		BRA	PRN2
0999	23	10		BLS		PRIN88	0A11	EB	01	PRN5	ADD	B
099B	BD	03	63	PRIN77	JSR	PRINSP	0A13	A9	00		ADC	A
099E	8D	32		BSR		ENLINE	0A15	36			PSH	A
09A0	5A			DEC	B		0A16	96	4E		LDA	A
09A1	26	F8		BNE		PRIN77	0A18	26	0A		BNE	PRN6
09A3	20	06		BRA		PRIN88	0A1A	8C	0A	42	CPX	#KIOK+8
09A5	BD	04	BF	PRINT8	JSR	EXPR	0A1D	27	05		BEQ	PRN6
09A8	BD	09	E2	JSR		PRN	0A1F	7D	00	4C	TST	TSIGN
09AB	BD	05	E7	PRIN88	JSR	SKIPSP	0A22	26	0A		BNE	PRN7
09AE	81	2C		CMP	A	#',	0A24	8B	30	PRN6	ADD	A
09B0	26	10		BNE		PRIN99	0A26	7F	00	4C	CLR	TSIGN
09B2	08			INX			0A29	BD	02	92	JSR	OUTCH
09B3	96	42	PRLOOP	LDA	A	PRCNT	0A2C	8D	A4		BSR	ENLINE
09B5	16			TAB			0A2E	32		PRN7	PUL	A
09B6	C4	F8		AND	B	#\$F8	0A2F	08			INX	
09B8	10			SBA			0A30	08			INX	
09B9	27	0C		BEQ		PRI999	0A31	8C	0A	44	CPX	#KIOK+10
09BB	BD	03	63	JSR		PRINSP	0A34	26	CD		BNE	PRN1
09BE	8D	12		BSR		ENLINE	0A36	BD	02	DF	JSR	PULLX
09C0	20	F1		BRA		PRLOOP	0A39	39			RTS	
09C2	81	3B	PRIN99	CMP	A	#';	0A3A	27	10	KIOK	FDB	10000
09C4	26	04		BNE		PREND	0A3C	03	E8		FDB	1000
09C6	08			INX			0A3E	00	64		FDB	100
09C7	7E	09	42	PRI999	JMP	PRINT0	0A40	00	0A		FDB	10
09CA	81	1E	PREND	CMP	A	#\$1E	0A42	00	01		FDB	1
09CC	27	93		BEQ		PRINT4	0A44	DE	34	LET	LDX	BASPNT
09CE	C6	06		LDA	B	#6	0A46	BD	03	97	JSR	TSTV
09D0	20	BB		BRA		PRINTE	0A49	24	05		BCC	LET1
09D2	36		ENLINE	PSH	A		0A4B	C6	0C	LET0	LDA	B
09D3	96	42		LDA	A	PRCNT	0A4D	7E	06	94	LET00	JMP
09D5	4C			INC	A		0A50	BD	05	E7	LET1	JSR



0A53	08		INX		0AD5	27 04		BEQ	DIM3
0A54	81 3D		CMP A	#'=	0AD7	C6 0F	SUBERR	LDA B	#15
0A56	27 04		BEQ	LET3	0AD9	20 EC		BRA	DIMER1
0A58	C6 06	LET2	LDA B	#6	0ADB	8D 55	DIM3	BSR	STRSUB
0A5A	20 F1		BRA	LET00	0ADD	A6 00		LDA A	0,X
0A5C	BD 04 BF	LET3	JSR	EXPR	0ADF	81 2C		CMP A	#',
0A5F	81 1E		CMP A	#\$1E	0AE1	26 12		BNE	DIM6
0A61	26 F5		BNE	LET2	0AE3	08		INX	
0A63	BD 02 EA		JSR	STORE	0AE4	BD 04 BF		JSR	EXPR
0A66	20 1C		BRA	REMARK	0AE7	BD 04 63		JSR	PULPSH
0A68	D6 49	SIZE	LDA B	ARRTAB+1	0AEA	5D		TST B	
0A6A	96 48		LDA A	ARRTAB	0AEB	27 EA		BEQ	SUBERR
0A6C	D0 2F		SUB B	SOURCE+1	0AED	4D		TST A	
0A6E	92 2E		SBC A	SOURCE	0AEE	26 E7		BNE	SUBERR
0A70	BD 09 FD		JSR	PRNO	0AF0	8D 40		BSR	STRSUB
0A73	BD 03 63		JSR	PRINSP	0AF2	BD 04 F1		JSR	MPY
0A76	D6 47		LDA B	MEMEND+1	0AF5	4F	DIM6	CLR A	
0A78	96 46		LDA A	MEMEND	0AF6	C6 02		LDA B	#2
0A7A	D0 49		SUB B	ARRTAB+1	0AF8	BD 04 65		JSR	PUSHAE
0A7C	92 48		SBC A	ARRTAB	0AFB	BD 04 F1		JSR	MPY
0A7E	BD 09 FD		JSR	PRNO	0AFE	A6 00		LDA A	0,X
0A81	BD 02 B6		JSR	CRLF	0B00	81 29		CMP A	#')
0A84	BD 06 05	REMARK	JSR	NXTLIN	0B02	26 C1		BNE	DIMERR
0A87	7E 07 F5		JMP	BASIC	0B04	08		INX	
0A8A	DE 34	DIM	LDX	BASPNT	0B05	D6 49		LDA B	ARRTAB+1
0A8C	BD 05 E7	DIM1	JSR	SKIPSP	0B07	96 48		LDA A	ARRTAB
0A8F	BD 04 4F		JSR	TSTLTR	0B09	BD 05 A8		JSR	ADD1
0A92	24 03		BCC	DIM111	0B0C	4F		CLR A	
0A94	7E 0B 2B		JMP	DIMEX	0B0D	C6 02		LDA B	#2
0A97	80 40	DIM111	SUB A	#\$40	0B0F	BD 05 A8		JSR	ADD1
0A99	97 9A		STA A	DIMVAR+1	0B12	BD 04 70		JSR	PULLAE
0A9B	48		ASL A		0B15	91 46		CMP A	MEMEND
0A9C	9B 9A		ADD A	DIMVAR+1	0B17	23 03		BLS	DIM7
0A9E	97 9A		STA A	DIMVAR+1	0B19	7E 07 F0		JMP	OVERFL
0AA0	BD 02 CA		JSR	PUSHX	0B1C	97 48	DIM7	STA A	ARRTAB
0AA3	DE 99		LDX	DIMVAR	0B1E	D7 49		STA B	ARRTAB+1
0AA5	6D 00		TST	0,X	0B20	BD 05 E7		JSR	SKIPSP
0AA7	26 1C		BNE	DIMERR	0B23	81 2C		CMP A	#',
0AA9	6D 01		TST	1,X	0B25	26 04		BNE	DIMEX
0AAB	26 18		BNE	DIMERR	0B27	08		INX	
0AAD	6D 02		TST	2,X	0B28	7E 0A 8C		JMP	DIM1
0AAF	26 14		BNE	DIMERR	0B2B	81 1E	DIMEX	CMP A	#\$1E
0AB1	96 49		LDA A	ARRTAB+1	0B2D	26 96		BNE	DIMERR
0AB3	A7 01		STA A	1,X	0B2F	7E 0A 84		JMP	REMARK
0AB5	96 48		LDA A	ARRTAB	0B32	BD 02 CA	STRSUB	JSR	PUSHX
0AB7	A7 00		STA A	0,X	0B35	DE 99		LDX	DIMVAR
0AB9	A7 02		STA A	2,X	0B37	EE 00		LDX	0,X
0ABB	BD 02 DF		JSR	PULLX	0B39	6D 00	STRSU2	TST	0,X
0ABE	BD 05 ED		JSR	INXSKP	0B3B	27 03		BEQ	STRSU3
0AC1	81 28		CMP A	#' (	0B3D	08		INX	
0AC3	27 05		BEQ	DIM2	0B3E	20 F9		BRA	STRSU2
0AC5	C6 05	DIMERR	LDA B	#5	0B40	E7 00	STRSU3	STA B	0,X
0AC7	7E 06 94	DIMER1	JMP	ERROR	0B42	BD 02 DF		JSR	PULLX
0ACA	08	DIM2	INX		0B45	39		RTS	
0ACB	BD 04 BF		JSR	EXPR	0B46	DE 34	FOR	LDX	BASPNT
0ACE	BD 04 63		JSR	PULPSH	0B48	BD 03 97		JSR	TSTV
0AD1	5D		TST B		0B4B	24 03		BCC	FOR1
0AD2	27 03		BEQ	SUBERR	0B4D	7E 0A 4B		JMP	LET0
0AD4	4D		TST A		0B50	DF 34	FOR1	STX	BASPNT

0B52	BD	04	63		JSR	PULPSH	0BCA	CE	00	69		LDX	#FORSTK
0B55	DE	53			LDX	FORPNT	0BCD	BD	04	63		JSR	PULPSH
0B57	8C	00	99		CPX	#FORSTK+48	0BD0	9C	53		NEXT2	CPX	FORPNT
0B5A	26	05			BNE	FOR11	0BD2	27	3A			BEQ	NEXT6
0B5C	C6	10			LDA	B #16	0BD4	A1	00			CMP	A 0,X
0B5E	7E	06	94		JMP	ERROR	0BD6	26	2E			BNE	NEXT5
0B61	A7	00		FOR11	STA	A 0,X	0BD8	E1	01			CMP	B 1,X
0B63	08				INX		0BDA	26	2A			BNE	NEXT5
0B64	E7	00			STA	B 0,X	0BDC	BD	03	03		JSR	IND
0B66	08				INX		0BDF	BD	04	63		JSR	PULPSH
0B67	DF	53			STX	FORPNT	0BE2	E0	03			SUB	B 3,X
0B69	DE	34			LDX	BASPNT	0BE4	A2	02			SBC	A 2,X
0B6B	BD	05	E7		JSR	SKIPSP	0BE6	25	05			BCS	NEXT4
0B6E	08				INX		0BE8	DF	53			STX	FORPNT
0B6F	81	3D			CMP	A #'=	0BEA	7E	07	F5	NEXT3	JMP	BASIC
0B71	27	03			BEQ	FOR3	0BED	BD	04	70	NEXT4	JSR	PULLAE
0B73	7E	0A	58	FOR2	JMP	LET2	0BF0	CB	01			ADD	B #1
0B76	BD	04	BF	FOR3	JSR	EXPR	0BF2	89	00			ADC	A #0
0B79	BD	02	EA		JSR	STORE	0BF4	BD	02	CA		JSR	PUSHX
0B7C	08				INX		0BF7	EE	00			LDX	0,X
0B7D	81	54			CMP	A #'T	0BF9	A7	00			STA	A 0,X
0B7F	26	F2			BNE	FOR2	0BFB	E7	01			STA	B 1,X
0B81	A6	00			LDA	A 0,X	0BFD	BD	02	DF		JSR	PULLX
0B83	08				INX		0C00	EE	04			LDX	4,X
0B84	81	4F			CMP	A #'O	0C02	DF	36			STX	BASLIN
0B86	26	EB			BNE	FOR2	0C04	20	E4			BRA	NEXT3
0B88	BD	04	BF		JSR	EXPR	0C06	08			NEXT5	INX	
0B8B	BD	04	70		JSR	PULLAE	0C07	08				INX	
0B8E	DF	34			STX	BASPNT	0C08	08				INX	
0B90	DE	53			LDX	FORPNT	0C09	08				INX	
0B92	A7	00			STA	A 0,X	0C0A	08				INX	
0B94	08				INX		0C0B	08				INX	
0B95	E7	00			STA	B 0,X	0C0C	20	C2			BRA	NEXT2
0B97	08				INX		0C0E	C6	11		NEXT6	LDA	B #17
0B98	DF	53			STX	FORPNT	0C10	7E	06	94		JMP	ERROR
0B9A	DE	34			LDX	BASPNT	0C13	DE	34		IF	LDX	BASPNT
0B9C	A6	00			LDA	A 0,X	0C15	BD	04	BF		JSR	EXPR
0B9E	81	1E			CMP	A #1E	0C18	8D	17			BSR	RELOP
0BA0	26	D1		FOR8	BNE	FOR2	0C1A	97	4D			STA	A NCMPR
0BA2	08				INX		0C1C	BD	04	BF		JSR	EXPR
0BA3	DF	36			STX	BASLIN	0C1F	DF	34			STX	BASPNT
0BA5	DE	53			LDX	FORPNT	0C21	8D	4A			BSR	CMPR
0BA7	96	36			LDA	A BASLIN	0C23	24	03			BCC	IF2
0BA9	A7	00			STA	A 0,X	0C25	7E	0A	84		JMP	REMARK
0BAB	08				INX		0C28	DE	34		IF2	LDX	BASPNT
0BAC	D6	37			LDA	B BASLIN+1	0C2A	BD	06	11		JSR	CCODE
0BAE	E7	00			STA	B 0,X	0C2D	EE	00			LDX	0,X
0BB0	08				INX		0C2F	6E	00			JMP	0,X
0BB1	DF	53			STX	FORPNT	0C31	BD	05	E7	RELOP	JSR	SKIPSP
0BB3	7E	07	F5		JMP	BASIC	0C34	08				INX	
0BB6	DE	34		NEXT	LDX	BASPNT	0C35	81	3D			CMP	A #'=
0BB8	BD	03	97		JSR	TSTV	0C37	26	03			BNE	RELOP0
0BBB	24	03			BCC	NEXT1	0C39	86	00			LDA	A #0
0BBD	7E	0A	4B		JMP	LET0	0C3B	39				RTS	
0BC0	BD	05	E7	NEXT1	JSR	SKIPSP	0C3C	E6	00		RELOP0	LDA	B 0,X
0BC3	81	1E			CMP	A #1E	0C3E	81	3C			CMP	A #'<
0BC5	26	D9			BNE	FOR8	0C40	26	13			BNE	RELOP4
0BC7	08				INX		0C42	C1	3D			CMP	B #'=
0BC8	DF	36			STX	BASLIN	0C44	26	04			BNE	RELOP1
							0C46	08				INX	

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0C47 86 02          LDA A  #2
0C49 39             RTS
0C4A C1 3E         RELOP1 CMP B  #'>
0C4C 26 04         BNE    RELOP3
0C4E 08           RELOP2 INX
0C4F 86 03         LDA A  #3
0C51 39             RTS
0C52 86 01         RELOP3 LDA A  #1
0C54 39             RTS
0C55 81 3E         RELOP4 CMP A  #'>
0C57 27 05         BEQ    REL44
0C59 C6 06         LDA B  #6
0C5B 7E 06 94     JMP    ERROR
0C5E C1 3D         REL44  CMP B  #'='
0C60 26 04         BNE    RELOP5
0C62 08           INX
0C63 86 05         LDA A  #5
0C65 39             RTS
0C66 C1 3C         RELOP5 CMP B  #'<
0C68 27 E4         BEQ    RELOP2
0C6A 86 04         LDA A  #4
0C6C 39             RTS
0C6D 96 4D         CMPR   LDA A  NCMPR
0C6F 48           ASL A
0C70 48           ASL A
0C71 B7 0C 7F     STA A  FUNNY+1
0C74 CE 0C 80     LDX   #CMPR1
0C77 BD 05 A3     JSR   SUB
0C7A BD 04 70     JSR   PULLAE
0C7D 4D           TST  A
0C7E 6E 00         FUNNY  JMP   0,X
0C80 27 18         CMPR1  BEQ   MAYEQ
0C82 20 12         BRA   NOCMPR
0C84 2B 12         BMI   OKCMPR
0C86 20 0E         BRA   NOCMPR
0C88 2B 0E         BMI   OKCMPR
0C8A 20 F4         BRA   CMPR1
0C8C 26 0A         BNE   OKCMPR
0C8E 20 0F         BRA   MYNTEQ
0C90 27 0D         BEQ   MYNTEQ
0C92 2B 02         BMI   NOCMPR
0C94 2A 02         BPL   OKCMPR
0C96 0D           NOCMPR SEC
0C97 39             RTS
0C98 0C           OKCMPR CLC
0C99 39             RTS
0C9A 5D           MAYEQ  TST  B
0C9B 27 FB         BEQ   OKCMPR
0C9D 20 F7         BRA   NOCMPR
0C9F 5D           MYNTEQ TST  B
0CA0 26 F6         BNE   OKCMPR
0CA2 20 F2         BRA   NOCMPR

0CA4             END   EQU   *
A048             ORG   $A048
A048 01 00       FDB   PROG
                                END

```

NO ERROR(S) DETECTED

## SYMBOL TABLE:

ADD	05A5	ADD1	05A8	AESTK	0051	ANUMB	004F	ARRTAB	0048
ASTACK	021A	BACKSP	0044	BASIC	07F5	BASIC0	07FB	BASIC1	07FE
BASIC2	081A	BASLIN	0036	BASPNT	0034	BNUMB	0050	BREAK	029A
BREAK1	029D	BREAK2	02A6	BUF3	07E5	BUFFER	00B0	BUFNXT	00AC
BUFWR	07CF	CANCEL	0045	CAPPEN	076E	CCEXIT	0640	CCODE	0611
CLIST	06EE	CLIST1	06F6	CLIST2	0717	CLIST3	071B	CLIST4	0729
CLIST5	072C	CMPR	0C6D	CMPR1	0C80	CNTLIN	0282	COMEND	01DC
COMMAN	0152	CONTRL	E0E3	CREND	02C4	CRLF	02B6	CRLFST	02C0
DBLLTR	08D4	DEL	0280	DEL2	0782	DEL4	0794	DEL5	0798
DELETE	0776	DELEX	079F	DELREP	0754	DIM	0A8A	DIM1	0A8C
DIM111	0A97	DIM2	0ACA	DIM3	0ADB	DIM6	0AF5	DIM7	0B1C
DIMCAL	0040	DIMER1	0AC7	DIMERR	0AC5	DIMEX	0B2B	DIMPNT	003E
DIMVAR	0099	DIV	0544	DIV163	056A	DIV165	0577	DIV167	0578
DIV169	058B	DIV33	0553	DIV4	0555	DIV5	0560	END	0CA4
ENDBUF	00AE	ENLEXT	09DE	ENLINE	09D2	ERRMS1	022F	ERRMS2	0237
ERROR	0694	ERROR2	06B8	EXPR	04BF	EXPR0	04CE	EXPR00	04D3
EXPR1	04D5	EXPR2	04E4	EXPR3	04F0	FACT	047B	FACT0	0487
FACT1	048D	FACT2	049D	FIND0	05C4	FIND1	05D2	FIND2	05D3
FIND3	05E0	FIND4	05E1	FINDN1	05C2	FINDNO	05B8	FOR	0B46
FOR1	0B50	FOR11	0B61	FOR2	0B73	FOR3	0B76	FOR8	0BA0
FORPNT	0053	FORSTK	0069	FUNNY	0C7E	GOLIST	016B	GOSUB	081C
GOSUB1	082F	GOTO	083F	GOTO2	084E	HIBALL	05DE	HIGHLN	0032
IEXIT	0289	IF	0C13	IF2	0C28	IMPLET	01DD	INCH	0297
IND	0303	INDEX1	0020	INDEX2	0022	INDEX3	0024	INDEX4	0026
INEEE	E1AC	INNERR	092D	INNEX	0932	INNEX2	093B	INNUM	08E9
INNUM0	08F7	INNUM1	0900	INNUM2	0903	INPERR	08B1	INPEX	08CC
INPUT	0889	INPUT0	0891	INPUT1	089B	INPUT2	08A4	INPUT4	08BC
INPUTS	08B4	INS1	07A7	INS2	07C4	INSERT	07A2	INTSTN	08F4
INXSKP	05ED	KEYB10	0253	KEYB11	0256	KEYB55	026A	KEYBD	0241
KEYBD0	0245	KEYBD1	024A	KEYBD2	025E	KEYBD3	0276	KEYWD	004A
KIOK	0A3A	LET	0A44	LET0	0A4B	LET00	0A4D	LET1	0A50
LET2	0A58	LET3	0A5C	LEXIT	032F	LINE1	05FB	LINENO	05F1
LIST	031C	LIST0	0324	LIST1	0326	LOOP2	0689	LOOP3	061A
LOOP4	061D	LOOP5	0628	LOOP6	0634	LOOP7	0638	LOOP8	063D
MAXLIN	0043	MAYEQ	0C9A	MDS2	0533	MDS3	053F	MDSIGN	0525
MEMEND	0046	MPY	04F1	MPY4	04F9	MPY5	050A	MPY6	051D
MPYERR	0505	MYNTEQ	0C9F	NCMPR	004D	NEG	058F	NEGAB	059C
NEWL3	0676	NEWLIN	066B	NEXIT	076B	NEXT	0BB6	NEXT1	0BC0
NEXT2	0BD0	NEXT3	0BEA	NEXT4	0BED	NEXT5	0C06	NEXT6	0C0E
NEXTBA	002A	NOCMPR	0C96	NONO	045F	NUM1	0745	NUMBER	0742
NXTL12	0607	NXTLIN	0605	OFFSET	07CB	OKCMPR	0C98	OUTCH	0292
OUTEEE	E1D1	OUTLI1	0341	OUTLI2	0350	OUTLIN	0330	OUTNCR	02AF
OUTPU2	02AC	OUTPU3	02AE	OUTPUT	02A8	OVERFL	07F0	PACKLN	0030
PATCH	0730	PAUMSG	01D3	PAUSE	0868	PAUSE1	087C	PAUSE2	0886
PGCNTL	022A	PIAD	8004	PRCNT	0042	PREND	09CA	PRI999	09C7
PRIN77	099B	PRIN88	09AB	PRIN99	09C2	PRINSP	0363	PRINT	0940
PRINT0	0942	PRINT1	094A	PRINT2	0959	PRINT4	0961	PRINT5	0973
PRINT6	0979	PRINT7	0990	PRINT8	09A5	PRINTE	098D	PRLOOP	09B3
PRN	09E2	PRN0	09FD	PRN1	0A03	PRN2	0A06	PRN5	0A11
PRN6	0A24	PRN7	0A2E	PROGM	0100	PROMPT	0226	PULLAE	0470
PULLX	02DF	PULPSH	0463	PUSHAE	0465	PUSHTX	0038	PUSHX	02CA
RAND1	037D	RANDOM	036B	RDYMSG	021B	READY	0662	REL44	0C5E
RELOP	0C31	RELOP0	0C3C	RELOP1	0C4A	RELOP2	0C4E	RELOP3	0C52
RELOP4	0C55	RELOP5	0C66	REMARK	0A84	REPLAC	0767	RETUR1	085E
RETURN	0852	RNDVAL	003C	RUN	06C0	RUN1	06D9	RUN2	06E5
SAVESP	0028	SBRPNT	0057	SBRSTK	0059	SIZE	0A68	SKIPEX	05F0
SKIPSP	05E7	SOURCE	002E	SP	A008	START	0646	START1	0657
START2	0650	STORE	02EA	STRSU2	0B39	STRSU3	0B40	STRSUB	0B32
SUB	05A3	SUBER1	03E8	SUBERR	0AD7	TERM	04A2	TERM0	04A4
TERM1	04B2	TERM2	04BE	TESTNO	0457	TNUMB	004E	TSIGN	004C
TST666	042A	TSTLTR	044F	TSTN	08D9	TSTN0	08E3	TSTN1	08E5
TSTV	0397	TSTV1	03A3	TSTV2	03AD	TSTV20	03C6	TSTV22	03DB
TSTV3	03EB	TSTV4	03FC	TSTV5	0401	TSTV6	0408	TSTV7	042C
TSTV8	043B	TSTV9	0446	TSTVER	03D8	VARPNT	0055	VARTAB	0103
WORKBA	002C	XSTACK	003A	YESNO	0461				