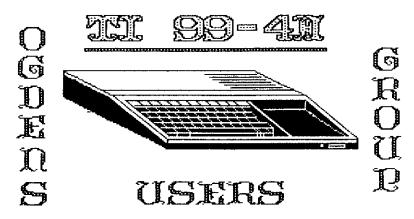


a publication of the ti 99-4a and 9640 ogden users group inc.



## THE CLUB THAT REFUSES TO SAY GOODBY















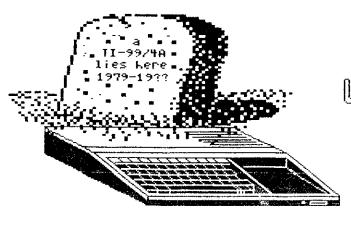












DONT BURY YOUR
TI COMPUTER!
LEARN HOW TO USE
YOUR COMPUTER!
COME TO USERS
GROUP MEETINGS

Tigercub Software 156 Collingwood Ave. Columbus OH 43213

collection disks at \$5.00 | First, let's make a screen ! you have BXB merged in you !

52 issues of this news-! have to be double-spaced! ready-to-run programs on 5 1 so -Tips Disks at \$10 each.

Disk, \$15 each, each contain : CH)&" ";:: X=X+2 :: IF X<29 : format as 150A, 150B, etc. : Or, for something silly over 100 subprograms for you : THEN 110 ELSE PRINT "":"": " : The numerals and the upper : to merge into your own pro- : ::: X≔1 grams to do all kinds of ! 110 NEXT CH wonderful things.

\$1, deductable from t your first order (specify! Now, you might like to move! the top row and doubling the! 151 REM TIGERCUB catalog),

#### TI-PD LIBRARY

domain programs, by cate- | 120 DATA 32,33,34,44,46 gory. the category, with all the (R(J+122,CH\$) Basic-only assembly programs if poss- : vice for just \$1.50 post— ; to the end of line 140. paid in U.S. and Canada. No ! fairware will be offered | Save by SAVE DSK1.120, MERGE | 150 FOR CH=97 TO 127 :: CALL | the same size as lower case, without the author's per- | mission. Send SASE for list : If you are using that trans- : (CH,SEG\$(CH\$,7,6)&RPT\$(SEG\$(: 150 FOR CH=48 TO 57 :: CALL or \$1, refundable, for | literation, you must remem- | CH\$,13,2),4)&SEG\$(CH\$,15,2)) | CHARPAT(CH,CH\$):: CALL CHAR( 9-page catalog listing all | ber that with upper case | :: NEXT CH

! some quick and easy ways to ! keys C, F, A, G, W and V and ! ; create new character sets. ; for the 3rd set (ASCII 129 ; 150 FOR CH=97 TO 127 :: CALL ! Since folks nowadays don't ! to 154) they are CTRL comma, : CHARPAT(CH, CH\$):: CALL CHAR ! like to key in long pro- ! period,;,=,\* and (. ! grams, let's continue with ! I am still offering over ! "tinygram" programming, and ! You can transfer upper ! : NEXT CH original and unique tat the same time show you tase to lower by entertainment, educational | how to manipulate strings, | CALL CHARPAT(CH,CH\$) utility programs at and teach you the value of them CALL CHAR(CH+32,CH\$) or to fine the characteristic of the

! to display our new charac- ! can create a 3rd set by ! 150 FOR CH=97 TO 122 :: CALL The contents of the first ! ters. Some of them will ! CH+64. are available as ! horizontally or vertically, !

And my three Nuts & Bolts : CH=48 TO 159 :: PRINT CHR\$( : 150 and save them in merge :

| the common punctuation marks : 7th row -! into the same character sets ! 150 FOR CH=48 TO 126 :: CALL ! For some good blocky char-\* | as the characters, so that : CHARPAT(CH,CH\$):: CALL CHAR | acters -! you will not have to reiden- : (CH,SEG\$(CH\$,3,12)&SEG\$(CH\$, : tify so many sets, also so 1 13,4)):: NEXT CH I have selected public ; you can color them easier, ; 151 REM to fill over 200 : 130 FOR J=1 TO 5 :: READ CH : Or, you can double the 3rd : \$(CH\$,5,8)&RPT\$(SEG\$(CH\$,15, disks, as full as possible | :: CALL CHARPAT(CH,CH\$):: CA | row if I had enough programs of | LL CHAR(J+90,CH\$):: CALL CHA | 150 FOR CH=48 TO 95 :: CALL | 151 REM programs con- : 140 NEXT J :: CALL CHARPAT(6 : CH, SEG\$(CH\$, 3, 4)&SEG\$(CH\$, 5, : Or, if you would prefer them verted to XBasic, with an { 3,CH\$):: CALL CHAR(64,CH\$):: { 12)):: NEXT CH loader provided for : :: CALL CHAR(96,CH\$)

instructions added! If you want to program in ! The lower case letters are ! 150 FOR CH=48 TO 90 :: CALL and any obvious bugs cor- ! Basic, or use BXB with char- ! really small upper case with ! CHARPAT(CH,CH\$):: CALL CHAR( rected, and with an auto- : acters all the way up to : the upper 3 rows blank. All : CH, "900"&RPT\$(SEG\$(CH\$, 3, 2), 2 loader by full program name : ASCII 159, add CALL CHAR(J+1 : their vertical bars are in : )&SEG\$(CH\$,7,6)&RPT\$(SEG\$(CH on each disk. These are | 54,CH\$) to the end of line | the 4th, 6th and 8th rows, | \$,15,2),2)):: NEXT CH available as a copying ser- { 130 and CALL CHAR(128,CH\$) } so let's drop the first 3 ; 151 REM

titles and authors. Be sure | characters the ? is 0, space | 151 REM to specify TI-PD catalog. | is [, ! is \, " is ], comma !

! \* ! is , period is \_. With the ! Or, for topheavy letters, ! In Tips #55, I showed you ! lower case they are FCTN : quadruple the 5th row -

and ! \$1.90 each, or on lusing MERGE format. | the opposite by CH-32 and if | spacing -

> : 100 CALL CLEAR :: X=1 :: FOR : so give them all line number : 151 REM ; case letters all have the : 150 FOR CH=48 TO 90 :: CALL provide ! taller letters by deleting : \$(CH\$,15,2)):: NEXT CH

: CHARPAT(CH,CH\$):: CALL CHAR( :

: 151 REM

! rows and quadruple the 7th. :

: CHARPAT(CH,CH\$):: CALL CHAR :

(CH,SEG\$(CH\$,7,2)&RPT\$(SEG\$( CH\$,9,2),4)&SEG\$(CH\$,11,6)): 151 REM

: CHARPAT(CH,CH\$):: CH\$=SEG\$( CH\$,5,8)&RPT\$(SEG\$(CH\$,13,2) The following are all in- : ,3) &SEG\$ (CH\$, 15,2):: CALL CH ! compatible with each other, ! AR(CH,CH\$):: NEXT CH

! topmost pixel row blank to ! CHARPAT(CH,CH\$):: CALL CHAR( spacing between | CH,SEG\$(CH\$,3,2)%RPT\$(SEG\$(C My catalog is available | Save it- SAVE DSK1.100, MERGE | lines of text. We can make | H\$,5,2),4)&SEG\$(CH\$,9,4)&SEG

: 150 FOR CH=48 TO 90 :: CALL ! CHARPAT(CH, CH\$):: CALL CHAR( CH,RPT\$(SEG\$(CH\$,3,2),2)&SEG 1 2),2)):: NEXT CH

| shorter for single-line | spacing -

If you would like numerals

CH, "0000"%SEG\$(CH\$, 1, 6)%SEG\$ (CH\$,9,4)&SEG\$(CH\$,15,2));; I NEXT CH

151 REM	: Add a line 500 GOTO 500	! %"A#" •• GOTO 1A3	1
IJI REN	And etant MEDGEing is your	162 CH2\$=CH2\$&SEG\$(CH\$,J-1,1	' ! 1AØ FOR CH=48 TO 122 :: CAL€
You can even shrink the	I series of "150" routines and	! \\$\$E\$\$("@3A7CBEE"_PD\$("@24A8	CHARPAT (CH.CH\$)
lower case to only 4 rows	I running them to see what you	ACE"_SEG\$(CH\$.J.1).1).1)	161 FOR J=1 TO 15 STEP 2 ::
high, although some letters	! have created.	: 163 NEXT J :: CALL CHAR(CH,C	CH2\$=CH2\$&SEG\$(CH\$,J,1)&SEG\$
	Then, save these next	: H2\$):: CH2\$="" :: NEXT CH	("ØCSC",POS("Ø48C",SEG\$(CH\$,
are not very regione	! routines in MERGE format as		( J+1,1),1),1):: NEXT J
150 FOR CH=97 TO 122 :: CALL	: 160A, 160B, etc.		
CHARPAT(CH,CH\$):: CALL CHAR	t All normal characters have	and right -	! \$="" :: NEXT CH
(CH, SEG\$ (CH\$, 1, 6) &SEG\$ (CH\$, 5	: All normal characters have the leftmost column of	; ;	163 REM
,4)&SEG\$(CH\$,11,6)):: NEXT C	! pixels and the two right-	: 160 FOR CH=48 TO 122 :: CALL	1
Н	I most columns blank, for	: CHARPAT(CH,CH\$):: FOR J=1 T	Or inward at right, out-
	; spacing between letters. We		
	I can widen the character into		
	: the left column -	, ,	: 160 FOR CH=48 TO 122 :: CALL
150 A\$="00" :: FOR CH=48 TO		: 161 A\$=SEG\$("Ø367CDEF89ABCDE	·
	1 160 FOR CH=48 TO 122 :: CALL		
	: CHARPAT(CH, CH\$):: FOR J=1 T		
	0 15 STEP 2		
	161 CH2\$=CH2\$&SEG\$("Ø14589CD		
	: ",POS("Ø1234567",SEG\$(CH\$,J,		
	1 1),1),1)&SEG\$(CH\$,J+1,1):: N		
	: EXT J :: CALL CHAR(CH,CH2\$):	: 163 LALL CHAR(/4, "999C9C9C9C	: 162 CHUL CHARTON,CM297:: CH2
90 :: CALL CHARPAT(CH, CH\$)::	: CH2\$="" :: NEXT CH	# ØC4C38"):: CALL CHAR(196,"90 # ØØØØØCØCØC4C38")	: ⊅~ :: NCAT GB : 147 DEM
CH\$=SEG\$(CH\$,3,10)&RPT\$(SEG	1 1AT DEM	: :	i 100 KEH
\$(CH\$,13,2),2)&SEG\$(CH\$,15,2	1 105 101	! Or shaded into both of the	! Hore's a weirdn -
)	: Or widen it both left and		i tiere s a west ou
151 CALL CHAR(CH,SEG\$(CH\$,1,		<del>-</del>	160 FOR CH=48 TO 122 :: CALL
4) %A\$%SEG\$ (CH\$,7,2) %A\$%SEG\$ (		160 FOR CH=48 TO 122 :: CALL	
	: 160 FOR CH=48 TO 122 :: CALL		
	: CHARPAT(CH,CH\$):: FOR J=1 T		
		\$ (CH\$,J-1,1)&SEG\$("Ø377ERFF"	
	: 161 CH2\$=CH2\$&SE6\$("Ø14589CD		
	: ",POS("Ø1234567",SEG\$(CH\$,J,		
	{ 1),1),1)&SEG\$("Ø28A",POS("Ø4		
	1 8C", SEG\$(CH\$, J+1, 1), 1), 1)	t CH	EG\$(CH\$,1,8)&CH2\$):: CH2\$=""
	: 162 NEXT J :: CALL CHAR(CH,C		:: NEXT CH
- ·			163 REM
151 FOR J=3 TO 15 STEP 2 ::		163 REM	
X\$=X\$&SEG\$(CH\$, J, 1)&SEG\$(CH\$		i 	Try changing that to FOR J
	! Or even a full 8 columns : ! wide by just changing the !		! =1 TO 7 and CALL CHAR(CH,CH2 : \$\$SEG\$(CH\$,9,8))
	! "Ø28A" in line 161 to "Ø129" :		, ,
And "Spooky" backward -		CHARPAT(CH,CH\$):: FOR J=1 T	
Tind appoint backward		0 15 STEP 2 :: P=POS("Ø12345	
150 FOR CH=48 TO 122 :: CALL	can shade them into the 7th		
CHARPAT(CH, CH\$):: FOR J=1 T		161 A\$=SEG\$("Ø367CDEF89ABCDE	
0 15 STEP 2 :: CH2\$=CH2\$&SE6		F",P,1):: P=POS("Ø2468ACE",S	•
	: 160 FOR CH=48 TO 122 :: CALL :		
	: CHARPAT(CH,CH\$):: FOR J=2 T		
	! O 16 STEP 2 :: IF SEG\$(CH\$,J )		:):: B\$=SEG\$("Ø8Ø8",POS("Ø48C
151 REM	: ~1,1)="1" THEN CH2\$=CH2\$&"18		
		H2\$):: CH2\$≃"" :: NEXT CH	
•	1 161 IF CH=67 OR CH=71 OR CH=		162 CALL CHAR(CH,CH2\$&SEG\$(C
· ·	: 99 OR CH=103 THEN 162 :: IF		! H\$,9,8)):: CH2\$="" :: NEXT C
	; SEG\$(CH\$,J-1,1)="4" AND SEG\$ ;		
MERGE DSK1.120	f (CH\$,J,1)="Ø" THEN CH2\$=CH2\$	acrignt ~ _S	163 REM

MERGE in 100 and 120, put in | acter sets you can make!

a holding line 500 GOTO 500 | Memory full,

and start MERGEing in all of | Jim Peterson |

the different combinations | |

of the 150 and 160 lines and |

PROGRAMMING AIDS III

TI'S Programming Aids III opens the door to some powerful programming techniques. The EDITOR capabilities of this software will be appreciated by the serious extended BASIC programmer. But the excitement really begins when you realize how this software does its thing.

The **EDITOR** can provide the ability to delete, move, or resequence specified groups of lines within a program much more quickly than could be done manually at the keyboard.

#### Required Hardware:

EDITOR comes on the Programming Aids III disk which is a set of four Extended BASIC programs (LINPUT, CREF, CREFPRINT and EDITOR). In addition to a disk controller, disk drive, and the Extended BASIC Command Cartridge, a printer is a practical necessity, there is no provision for screen display of the output from the Cross Reference procedure.

#### EDITOR:

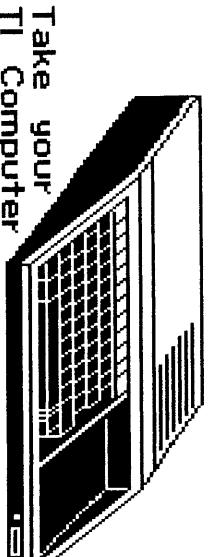
The EDITOR program makes possible any desired modification of line numbers in a BASIC or Extended BASIC program. The only way to resequence a program was to use the RESEQUENCE (RES) command, which effects all line numbers within a program. EDITOR allows resequence specified sections of a program without affecting others. you have numbered subroutine statements in a manner which is easy to remember (1000, 2000, 3000, etc), you can retain this number and "open up" a previous part of the program for insertion of additional lines. even more useful application would be the rearrangement of sections BASIC code. Suppose you want to merge several programs, each of which contains subroutines. Without EDITOR, you would be faced with the time consuming job of moving all subroutines to the end of the merged program. With EDITOR, this procedure can be done very simply and quickly by renumbering all subroutine lines.

Finally, the *EDITOR* program allows deletion of sections of *BASIC* code. If you want to get a subroutine out of one program to use in another, it's no problem.

#### HOW EDITOR Horks:

The program to be edited is first saved with the WERGE option, and then the *EDITOR* program is loaded and run. Upon entry of the command provided, EDITOR inputs each record in the condensed format file and constructs the line number from the ASCII codes of the first bytes. Frogram line numbers thus obtained are stored in an array, with array position corresponding to record number. after the user altered these numbers using the DELETE (DEL) and RESEQUENCE (RES) commands provided, the SAVE command initiates the process altered numbers are reassigned to records in the file. As each record is read a second time, the corresponding line number in the array translated into two ASCII characters which are substituted for those on the record, and the new record is written to a new file (after making the necessary changes to any line references). At the end of this process, the end-of-file mark is written as the record on the file. initializing program memory with the NEW command, all you need to do is load the new file with the MERGE command. The program will then be

# Do you own a computer like this one?



You Ogden TI user group. TI Computer to and join the can use your TI- 99/4A COMPUTES

for: Games . Programming Home Budget . Graphics Business Games . and . Word Processing More!

CALL AT INFORMATION, HELP ETC. THE CLUB PUBLICITY GUYS 393-9605 OR 773-2552 members Jose Real

A member of the Ogden TI user Group, will recieve all of the following:

to the clubs informative monthly newsletter.

Access to our clubs humongous library of public domain programs A permanent invitation to our clubs biweekly meetings, which are occasionally interesting and informative.

A Tape or Disk with complimentary programs on CALL THE NUMBERS AT THE LEFFOR INFORMATION ON MEETINGS

We will be teaching BASIC if people are willing to come out!!

TI-BASE - From INSCEBOI TUTORIAL 7.1 By Martin Smoley NorthCoast 99'ers - Feb. 12, 1989 Copyright 1989 By Martin A. Smoley

I am reserving the copyright on this material, but I will allow the copying of this material by anyone under the following conditions. (1) It must be copied in its entirety with no changes. (2) If it is retyped, credit must be given to myself and the NorthCoast 99ers, as above. (3) The last major condition is that there may not be any profit directly involved in the copying or transfer of this material. In other words, Clubs can use it in their newsletters and you can give a copy to your friend as long as its free.

#### \*\*\* Miscellaneous Information \*\*\*

This month I'm going to try to answer some questions and include some new information from the new TI-Base manual. The first thing I'd like to say is "read the manual several times". There is a lot of information in it that you will probably miss the first or even the second time you read it, "I know I did". Make the two readings at least a day apart. If you read it twice in a row, you'll read in mistakes the first time through and rather than find the mistakes you'll reinforce those mistakes the second time through. It is very apparent from letters. I receive that some people try to start using TI-Base after just skimming through the manual. II-Base is too complicated for you to bluff your way through. I have been working with it for many months and I still keep the manual close at hand, and refer to it or the new GUICK REFERENCE GUIDE constantly. As far as programming problems go, typo's are my biggest. If you enter LOCAL BLNK C 30, and later in the program you try REPLACE BLANK WITH " Good morning", TI-Base will not match BLNK with BLANK. The next big mistake I make is to try and concatinate too many characters tegether. I then try to jam them into a variable with too little space. If BLMK has 30 spaces available you must add up the characters you have in the fields you want to stuff into BLMK. It's easy to say REPLACE BLNK WITH FN | LN. FN and LN don't look like much but they may represent 25 characters each, for a total of 50. You must keep these things in mind or written down, the system will not give you any help with these problems. One important thing I try to remember is "don't try to write a big program in one chunk". You should be creating a library of small CFs or programs. Each of these programs should do a fairly specific job, like printing labels or writing screen messages. Mork on an individual CF until it works well and then use a bunch of these small programs together to do a larger job. If you are having problems with a CF, or a group of CFs you are trying to use, leave the TALK ON. All the lines will scroll up the screen as you watch. If TI-Base cannot execute a line for some reason, it will place an asterisk at the very beginning of the line for you to see. If you can't get the hang of this method, Version 2.01 has a TRACE command. It is simply TRACE ON/TRACE DFF. If you enter TRACE ON, all lines which TI-Base can execute will be sent to your printer. You can then compare that printout to your original CF and the lines that didn't print out did not execute. When you find lines that won't execute, check them for variables first. See if you are trying to put too much data into a variable, or possibly the data is the wrong type. With version 2.0 and up 1 can't seem to mix those C)haracter and N)umeric fields the way I could with 1.02.

I hate to admit it but on several occasions I found that I was trying to put things into a variable that I had not created or initilized at the begining of the CF. If you are attempting to use a command or function for the first time and you do not understand how to phrase the statement, work small. Create a very small CF that does little more than test your new function. If you need to use a database with this function, use one with only a few names in it. "I use TNAMES, it contains only six names." That speeds up the test time and allows me to try the maximum amount of variations in the least amount of time. When you are having problems with a CF and you'd like a hard copy to look at, there is a new command called LIST. If you type LIST DSK1.filename/C at the dot prompt, TIB will go to the disk number you entered and try to find the filename you want, remember the /C is needed. If it can find that filename, it will LIST it to your printer. I find this command and SNAP, which is the new TIB screen dump, very helpful. I seem to be able to find many small errors on a printer page that I overlook on the monitor.

#### \*\*\* Printer Controls \*\*\*

Since I am already talking about printing hardcopies, I'd like to throw in some printer information. TIB Version 2.01 has built in printer control codes. They are present in the form of a database on the PRGDISK, named PRINTER. If you LIST or EDIT the SETUP CF that comes with TIB you will see # PRINTER EPSON in that file. Because there is an asterisk at the beginning of that line, TIB ignores the command and none of those control codes are available to you. That's because of the wide variety of printers on the market today. You must set up your own printer control codes in this system and make them available for TIBs access. Here's a little help on approaching this utility. We will look at the EPSON section because I am familiar with EPSON printers. Type USE DSK1.PRINTER (E). The name PRINTER should come up in the bottom line across your screen as a normal database in use. Next type DISPLAY STRUCTURE. Now, with your printer turned on, type SNAP (E) and hopefully the screen will be dusped to your printer. It should look like the screen below.

CREAT	ED	CHANGE	D	
FIELD	DESCRIPTOR	TYPE	WIDTH	DEC
1	NAME	C	010	
2	FF	X	002	
3	LF	X	002	
4	CR	X	002	
5	DS	X	004	
6	UL.	X	006	
7	ΕX	X	002	
8	CM	X	004	
9	IT	X	004	
10	В	X	004	
11	SPS	X	900	
12	SBS	X	006	
13	HT	X	002	
14	ST	X	020	
15	NM	X	026	
16	BLANK	X	030	
.SNAP				

000 1 PRINTER 00006/00007

Continued Next Page.

#### TI-BASE - From INSCEBOT TUTORIAL 7.2 By Martin Smoley NorthCoast 99'ers - Feb. 17, 1989 Copyright 1989 By Hartin A. Saoley

You will notice that we are looking at a database structure, even though it is a little abnormal. It's abnormalities are what make it so useful. TID recognizes this database as the place where it will find the control codes for your printer. The first field must be MAME. In the MAME field you would store your printer name, such as Epson. The next three fields you should recognize as Form Feed, Line Feed, and Carriage Return. These must stay exactly as you see them for TIB to work properly. The rest of the fields are Double Strike, Under Line, Enlarged Print, Condensed Mode, Italics, Bold, SuPerScript, SuBScript, Horizontal Tab, Set Tab, Mormal Mode (NM cancels all of the previous commands), and a Blank line 30 characters in length. One item of great importance is the X type field designation. The X type tells TIB that the item stored in this field is specifically a printer control code. It also tells TIB that it should interpret the normal numbers and characters you type into the X field as Hexidecimal. If you USE DSK1.PRINTER and type EDIT, you will see the screen below. DIABO, "I assume for Diablo", is the first screen you will encounter. Pressing FCTN 5 will move you to the EPSON screen.

NAME	EPSON
FF	oc
LF	DA
CR	OD
DS	1B47
UL	1B2D01
EX	0E
CM	000F
IT	1B34
В	1B45
SPS	185300
SBS	1B5301
HT	09
ST	18440A0A0A0A0A0A0A0
NM	1B481B2D3014121B351B461B5>

#### 000 1 PRINTER 00000/00007

BLANK

Any of these screens can be edited to your needs. You can change the names to your own liking. For example you can change EX to ENL, for ENLARGED. You can also change the data in the fields to match the codes your printer expects, if they are not already set properly. This part is a little confusing, but not really hard. NOTE: If you change the length of a data field the data will be lost and must be re-entered. Make sure you understand what you are doing before you change any lengths. Changing the data and thus changing the control code is as simple as typing over what is currently in a particular field. Lets look at DS, which stands for Double Strike for Epson or Bold on the Star MX-10. The printer command for DS or Bold is (ESC) "6". What you see in the field is 1847. If you wish to change this, you would merely type over it with normal characters and numbers. TIB, however, will interpret these to be Hexadecimal numbers.

field stand for Escape (1B). The second half of the command is \*6\* or 6. The decimal for 6 is 71 and the Hex for 6 is 47, so 1847 is Hex for (ESC) 6. In every printer handbook I can remember seeing, the ASCII, the Decimal and the Hexadecimal are given for the printer commands. You may have to search through your printer manual, but you don't have to figure these out. just look them up and type them in. One more example would be B for Bold, which actually produces Emphasized on my NX-10. My book says (ESC) "E" turns on Emphasized. Just below that it says 27 69 and below that is says 18 45. If you check the EDIT screen, you'll see that the B field contains 1845. OK, how do you use this stuff. Well in most cases it's easier and more convenient than you might think. First EDIT the SETUP file. Remove the asterisk in front of the PRINTER EPSON. If you have an Epson, bearn: Star or a smaller printer, try the fifthisk -command first. After using FCTN 8 to save the new CF, type DO DSKn.SETUP to rerun the SETUP file. As SETUP runs watch the bottom of your screen and you will see PRINTER come up while the EPSON commands are being installed. After SETUP finishes all traces of this operation will disappear, but the results will still be usable. Open the TNAMES DB by typing USE TNAMES. With your printer turned on type PRINT (B) (E). If everything worked, you just set you printer to TIB Bold. Type PRINT ALL FN,MI,LM (E). This should print out ALL of the names in TNAMES, in Bold Faced print. Typing PRINT (NM) (E) should return you to normal print, or DRAFT MODE. Try PRINT ALL (B) FN (CM) HI (NM) (IT) LN (NM) (E). This should PRINT ALL the First Names in Bold, the Hiddle Initials in Condensed and the East Names in Italics. Notice that the printer controls are enclosed in parenthesis and that a delimiter (comma or blank space) is needed between the fields or control codes. The (E) represents Press Enter. This type of control code use is very helpful when you are dumping a complete database to the printer. You can type PRINT (CM) (E) and then PRINT ALL (E). With TIB version 2.01 that troublesome line crawling that produced a printout that looked like a printer test pattern has been eliminated. Condensed mode now produces a nice neat columnar type page. I hope this is enough to get you started. Remember, read that manual. There is more on printer controls in the manual and I'll probably slip some of them into the tutorials in the future.

The code for (ESC), escape, is decimal 27, and in (Hex) or

Hexadecimal, it is 18. So the first two characters in the DS

#### \*\*\* Geneve Myarc \*\*\*

Here's an important tip from Bob Stevens of Battle Creek, MI. Bob says he had some disasterous results on his Geneve with a Myarc Disk Controller when he tried to run CFs off the PRGDISK. The cure he found was to initialize some new disks using 16 rather than 18 sectors and reset the interlace to 10. He then copied his TI-Base files to the new disks and lived happily ever after. Thanks for sharing that with us Bob, it will probably save someone in Florida a lot of aggravation.

#### \*\*\* THE LIME FAIR \*\*\*

This is a little early but I'd like to start plugging the tima. Fair. Quite a few people from the Cleveland area will be going to the Lima Fair this year. The fair will be held on May 20, and I hope to give a Demonstration of TI-Base at that time. I am also looking forward to meeting some of the people I have corresponded with and talked to over the phone.

Continued Next Month,

(Editors note: Thanks to Burr Settles of the Bluegrass 99er Computer Society, Inc. Jan 1988).



Since we are at the beginning of a new year, we're going to start it off with a bang and announce a brand new column. KIDKEYS is TI-FYI (For Your Information) especially for the younger set. Since many TI's were initially bought to contribute to the technological information being taught in our schools, lots of kids out there (ours and others) are keying in information on TI's everywhere. Hany of these midget programmers are doing things still only imagined by this simple user. Please feel free to contribute your efforts on behalf of your children, or the efforts of your children themselves.

This aonth's issue features a program written for a third-grade school project by Burr Settles. Burr had just turned nine when he began work on the program, which features graphics, music, and a menu that takes you between screens that effer a variety of information on solitary or social bees. Although some help was required by his father Bill (who ram as fast: as he could to Club expert Wes Richardson) in order to make the graphics appear to move, Burr demonstrated his understanding of the hexadecimal system of graphics design with his incorporation of a beehive and bees, and his comprehension of CALL SOUND routines by adding a current piano assignment to the program, Beethoven's Ode to Jey. Durr will be desonstrating this program at the January meeting.



By Burr Settles

```
100 REM ********

110 REM **BEES**

120 REM *******

130 REM BY BURR H. SETTLES

140 REM COPYRIGHT 1987

150 REM BLUEGRASS 99 COMPUTER SOCIETY,

INC.

160 CALL CLEAR

170 CALL SCREEN(10)

180 PRINT "BURR'S BEE BOOK": : :
```

```
:::::::
200 PRINT " PROGRAMMER: BURR SETTLES"
21Ø GOSUB 131Ø
22Ø GOSU8 78Ø
23Ø CALL CLEAR
24Ø CALL SCREEN(14)
250 PRINT " READ THE CATAGORIES BELOW
    ": : : : : :
26Ø PRINT "
                   Solitary Bee"
27Ø PRINT "
                   Characteristics":
28Ø PRINT
29Ø PRINT "
                2 Social Bees"
300 PRINT "
                   Characteristics":
310 PRINT
32Ø PRINT "
                3 Facts & Figures": :
33Ø PRINT
340 PRINT "
                4 End Program": : : :
35Ø PRINT "
                  WHICH OPTION (?)"
360 CALL KEY(0,KEY,S)
37Ø IF KEY<49 THEN 36Ø
38Ø IF KEY>52 THEN 36Ø
39Ø IF S<1 THEN 36Ø
400 IF KEY=49 THEN 440
410 IF KEY=50 THEN 530
420 IF KEY=51 THEN 620
430 IF KEY=52 THEN 720
44Ø CALL CLEAR
450 CALL SCREEN(S)
460 PRINT "
                   SOLITARY BEES": :
47Ø PRINT "
                Solitary means being
            There are many kindsof So
     alone.
    litary Bees: Mining
                           Bees, Mason
     Bees, Wool Hang-"
48Ø PRINT "er Bees, Carpenter Bees, an
    dLeaf-Cutter Bees. They may nest
    close together, but
                           they always
     live alone.":
49Ø PRINT "
                Since they live apart,
     males put out a scent to
                                 attra
    ct females to mate.
                           Solitary Be
    es can mate many"
500 PRINT "times. Each female then
     builds the nest and cares
                                 for t
    he eggs alone.": : :
51Ø INPUT "PRESS ENTER TO RETURN TO
     MENU": A$
52Ø GOTO 23Ø
53Ø CALL CLEAR
540 CALL SCREEN(16)
55Ø PRINT "
                    SOCIAL BEES": : :
560 PRINT "
                Social bees live to-
     gether in colonies called
                                 hives
       Each hive is made upof three cl
    asses of bees to"
57Ø PRINT "do the work.
                         The Queen lay
    sthe eggs. The worker gath- era p
```

190 PRINT " Solitary vs. Social Bess"

92Ø CALL HCHAR(12,17,133) ollen and nectar to feed the ba 93Ø CALL HCHAR(13,15,132) bies with each" 94Ø CALL HCHAR(13,16,134,2) 580 PRINT "day. The drone's only job 95Ø CALL HCHAR(13,18,133) is to mate once with the Queen , then he dies." 96Ø CALL HCHAR(14,14,132) The nests are man-made 97Ø CALL HCHAR(14,15,134,4) 59Ø PRINT " 98Ø CALL HCHAR(14,19,133) hives, or hollow logs which are n 99Ø CALL HCHAR(15,13,136) earby. There are also ground-nest 1000 CALL HCHAR(15,14,134,6) ing Bumblebees.": : : : 1010 CALL HCHAR(15,20,135) 600 INPUT "PRESS ENTER TO RETURN TO 1020 CALL HCHAR(16,13,132) MENU": A\$ 1030 CALL HCHAR(16,14,134,6) 61Ø GOTO 23Ø 620 CALL CLEAR 1040 CALL HCHAR(16,20,133) 1050 CALL HCHAR(17,13,132) 63Ø CALL SCREEN(4) 1060 CALL HCHAR (17, 14, 134, 6) 64Ø PRINT " FACTS & FIGURES": : 1070 CALL HCHAR(17,20,133) 65Ø PRINT " There are over 10,000 types of Solitary Bees, and only 1080 CALL HCHAR(18,13,132) two kinds of social" 1090 CALL HCHAR(18,14,134,2) 660 PRINT "bees. But there are over 1100 CALL HCHAR(18,16,137) 200 kinds of Bumblebees." 1110 CALL HCHAR(18,17,138) 670 PRINT " When the temperature i 112Ø CALL HCHAR(18,18,134,2) 1130 CALL HCHAR(18,20,133) s above 50 degrees bees are activ e. They are paralyzed below 50 de 1140 CALL HCHAR(19,13,132) grees. There are!! 1150 CALL HCHAR(19,14,134,2) 68Ø PRINT "thirty to forty thousand 116Ø CALL HCHAR(19,18,134,2) bees in an average hive. 1170 CALL HCHAR(19,20,133) olor of honey depends" 1180 CALL HCHAR(20,13,132) 69Ø PRINT "on the source of nectar. 119Ø CALL HCHAR(20,14,134,6) The darker the color of the honey 1200 CALL HCHAR(20,20,133) , the stronger the flavor. Ea 1210 PRINT " PRESS ANY KEY TO CONTINUE ch hive will giveabout 100 lbs. of honey.": :. 1220 RANDOMIZE 700 INPUT "PRESS ENTER TO RETURN TO 123Ø CALL SOUND(11Ø,-3,Ø) MENUT: A\$ 1240 ROW=INT(21+RND)+1 710 GOTO 230 125Ø COLUMN=INT(32\*RND)+1 720 CALL CLEAR 1260 CHAR=INT(4+RND)+128 73Ø CALL SCREEN(9) 1270 CALL VCHAR(ROW, COLUMN, CHAR) 740 CALL SOUND (2000,-3,1) 128Ø CALL KEY(Ø,KEY,R) 75Ø PRINT " BURR BUZZING OFF!!": : 1290 IF R=0 THEN 1220 1300 IF R=1 THEN 230 76Ø PRINT " HAVE A HONEY OF A DAY!!": 1310 CALL SOUND(500,494,3) : : : : : 1320 CALL SOUND(500,494,3) 77Ø END 133Ø CALL SOUND(5ØØ,523,3) 78Ø CALL CLEAR 1340 CALL SOUND(500,578,3) 79Ø CALL SCREEN(11) 1350 CALL SOUND(500,578,3) 800 CALL CHAR(128,"0000771C3E382000") 1360 CALL SOUND(500,523,3) 81Ø CALL CHAR(129,"Ø84828181C3E382Ø") 137Ø CALL SOUND(5ØØ,494,3) 820 CALL CHAR(130,"0000EE387C1C0400") 138Ø CALL SOUND(5ØØ,44Ø,3) 830 CALL CHAR(131,"10121418387C1C04") 1390 CALL SOUND(500,392,3) 840 CALL CHAR(132,"001F3F7FFFFFFFFF") 1400 CALL SOUND(500,392,3) 850 CALL CHAR(133,"00F8FCFEFFFFFFF") 1410 CALL SOUND (500,440,3) 860 CALL CHAR(134,"ØØFFFFFFFFFFFF") 1420 CALL SOUND(500,494,3) 870 CALL CHAR(135,"ØØ8ØCØEØFØFØFØFØ") 1430 CALL SOUND(750,440,3) 880 CALL CHAR(136,"000103070F0F0F0F0F") 1440 CALL SOUND(250,392,3) 890 CALL CHAR(137,"FØEØCØ8ØØØØØØØØØØØ 1450 CALL SOUND(250,392,3) 900 CALL CHAR(138,"0F0703010000000000") 146Ø GOTO 22Ø

91Ø CALL HCHAR(12,16,132)



Ogdens 99'er User Group Mail Address: 1396 LINCOLN Ave. APT.B Ogden Utah 844Ø4 GROUP OFFICERS

President: Jim Buck 773-2552
Vice President: Richard Morrison 621-3897
Secretary-Treasurer: Richard Scott 776-2551
Librarian: Harold Hilburn 773-0622
Asst. Librarian: Mel Bragg 393-9605
Newsletter Editor: Mel Bragg 393-9605
Associate Editor: Harold Hilburn 773-0622

### MAY 1989 NEWSLETTER

#### NEXT MEETING DATES

The next meetings dates are: MAY Ø6 AND MAY 16 1989 at 9:00 am on Saturday AND 7:00pm on Tuesday the 16th. We will be meeting in the CIVIL AIR PATROL building at the OGDEN MUNICIPAL AIRPORT, AIRPORT ROAD.

TI OGDEN USERS GROUP 1396 LINCLON AVE. APT. B OGDEN, UTAH 84464