CLEVELAND AREA 99-4A USERS GROUPS

NOVEMBER

NEWSLETTER

1985

OFFICERS - CLEVELAND AREA USERS BROUPS

SOLON

PRESIDENT - STEVE WEINKAMER (1-274-2544)
VICE PRESIDENT - MALT RYDER (921-8223)
TREASURER - FRANK JENKINS (283-8526)
SECRETARY - BARBARA BUTLER (561-9079)

LIBRARIAN - DAVE HLUCH (1-274-8004) & KIH JONES (1-274-8019)

GOLDEN CRESCENT

PRESIDENT - CHUCK MARINO (324-4388)

VICE PRESIDENT - DICK BURGER (967-1317)

TREASURER - DALE SCHIEFERSTEIN (988-5150)

SECRETARY - HAROLD SKIPWORTH (631-4529)

LIBRARIAN - DOB BARTO (1-282-7637)

MORTHCOAST

PRESIDENT - KEN BLADYSZENSKI (357-7274)
VICE PRESIDENT - BAN BAVENPORT (451-9061)
TREASURER - HARIA STAVANJA (261-0808)
SECRETARY - JOHN BLACKMER (257-2672)
LIBRARIAN - DEANNA SHERIDAN (333-5986)

TI-CHIPS

PRESIDENT - DERNIE BALLAGHER (351-1265)
VICE PRESIDENT - MARK NCCAULEY (888-1119)
TREASURER - DAN KELLER (225-0658)
SECRETARY - JAN FEDOR (524-6192)
LIBRARIAN -

BROUPS' NEWSLETTER ED. - MARK WOODWARD ((561-2967)

CHIPS TIPS

CHANGING THE CURSOR IN BASIC IN THE IMMEDIATE MODE

Hello, Boys & Girls, & welcome to my neighbrohood. Today's address is 1008. By Putting different numbers into this address & his neighbors, we can change the shape of Mr. Cursor. First, lets call Mr. cursor out. With your Editor/ Assembler or Mini Memory, enter basic & there he is. He dosen't look all that happy, does he? Now lets call Mr. Trolly to cheer him up. Type in this command

CALL POKEY(1008, 126, 129, 165, 129, 165, 153, 129, 126)

See Boys & Girls, He's happy now!

Here are some other designs you might like to try:

Starburst: 153,66,36,129,129,36,66,153

Underline: 0.0.0.0.0.0.0.254

Note: changing the cursor may result in the crashing of a Program in memory.

JAMES ZBIEGIEN

If you have any hints, suggestions, or comments, you can give me a call at 238-3971. Better yet, if you have any questions or are confused about anything, call me & I could have the answer Printed in the future. I'm not saying that I know all of the answers, but chances are that I could find someone who could swer your question.

Rich Polivko RICH POLIVKA

EXECUTIVE NOTES -- TI CHIPS OCTOBER 1985

Hope everyone had a terrific summer and is looking forward to fall with it spectacular colored leaves. Our September meeting was a very spectacular one.

Rich Polevka gave a presentation on the use of Modems. I was surprised to hear of the many services available through Bulletin Boards and other services such as stocks, magazines and railroading. Rich has a list of Bulletin Boards if anyone needs information regarding this.

Tom Thalmer of Edu-Comp sovised us about new products from CorComp, the Clock/calendar and th Triple Tech Card. He also demonstrated the Explorer disc. You can actually see a program running. it has a search function, looks really great for editing programs and also has speed control among many other features.

Stave Latza brought a Cleaning Kit for us to see. This Kit included everything needed to clean all your computer equipment: anti-static fluids, discs and printer head cleaner, lint-free cloths, platen cleaner and different cleaning solutions, just to mention a few. It also included an instruction booklet.

We thank all who helped to make our meeting great. Our Library Committee is still looking for someone to help with the Library. Just think! All the programs available at your fingertips! The advantages are great. Contact Barbara Hagele at 234-3282 and she can let you know what is involved.

Hope to see you all at the next meeting on:

October 19, 1985 North Royalton Public Library 10:00 AM

Jan Fedor, Secretary

(Ed.note: We are sorry that this is being published late.)

EXECUTIVE NOTES - SOLON

NOVEMBER

Our topic for the month of September was relative file processing, as demonstrated through a sample program put together by Walt Ryder. Walt showed us how an assembly program linked to BASIC could sort and search for specific disk files. Thanks to Walt for the interesting and informative presentation. Out topic for November will cover some of the versitilities of TI WRITER, as presented by Frank Jenkins. At this time, I'm still looking for a topic for December. (Any volunteers?)

At the last meeting, we discussed the passibility of reinstituting a fee for copying disk programs. With the purchase of our own disk drive, the policy of charging for this service was suspended. It was the consensus of the members present that copying should remain a free service, and if any repairs should have to be performed on the disk drive, the funds needed will be taken from the treasury. This fee was originally used to pay for wear and tear on personally owned equipment used for copying maaterials.

Frank Jenkins reported that the number of newsletters on our bulk mailing list is rapidly dwindling. In order to maintain the minimum amount required to keep our bulk status, we are going to have to look for other user's groups or organizations to add to the mailing list. Ron Duffy said that he will check through COMPUSERVE for any user's groups that may be interested in getting our newsletters. The cutoff for bulk mailing is 200 pieces and we are close to that number right now. However, if we lose more memberships, [which is an unfortunate trend at this time], we may be put in a bind as far as our bulk status goes.

You have probably noticed, as I have, that some of the mail order catalogs are advertising TI software for really bargin prices. I get the feeling that this is a good time to invest in software if the finances allow for it. It may be that most of what is currently available is going to disappear in the near future. I just purchased LOGO II for my kids for \$19.95, and I'm pretty sure that it won't be found again at that price, or any other, in a short while.

See you November 9, Solon Public Library Steve Weinkomer, President

EXECUTIVE NOTES -- NORTHCOAST

Last months meeting was arranged by our Vice President Dan Davenport and featured a demonstration of ACORN 99 by its author Charles L. Davis of Oaktree Systems. This program was reviewed by MICROPENDIUM in their July issue and is the database for our machine. It is available from Edu-Comp or Oaktree Systems for \$49.95. The turn-out was great but not as many attended from other groups as desired, hopefully this will change with other subject matter. Great job, Dan and Chuck! Also used in this presentation was a new "Y" video cable which allows use of a TV by the demonstrator and two monitors for the audience.

Deals on new and used equipment abound. At the meeting I mentioned the limited availability of an inexpensive TI compatible 4 color printer/plotter--great for graphing mathematical equations. Another member bought two double sided half height drives for about

the price of one from an ad in MICROPENDIUM.

The bulletin board is now running TECHIE as demonstrated by Larry Prikockis. The club bought the required smart modem and traded the old modem for a double sided drive. This additional drive when on line will allow us to run the latest version which allows up

and downloading of programs.

The library has been transferred to flippies and will be available for copying only before the meetings (12:15-1:15). Deanna is busy cataloging the Amnion disks--we have received the second batch of these disks (another 40). Deanna is also acting as assistant newsletter editor and is gathering tips from others for use in our publication. She is sorting all the articles by subject and has started a club notebook. She has suggested that we consider reprinting these and making them available inexpensively to the membership. Sounds like a great idea!

The big news is the TI-Faire in Chicago on November 2nd. From the list of attendees that MICROPENDIUM published--all the biggees in the TI world will be there and the long awaited new computer will debut finally! Tom and Judy Thalner of Edu-Comp will attend and promise a report for our newsletter. We hope to have a brief slide

show of this event at our next meeting November 16th.

We also are planning demonstrations of graphics programs: Paint-N-Print by Navarone, Graphics Package by Norton, and possibly

Graphx from Australia.

Many members are upgrading their systems with recently introduced products. I ask these members to please arrange to informally show it at the end of the meeting for those contemplating purchase of the same.

Lastly, it is almost that time for election of officers for the coming year. If you or someone you know can serve, please contact me or complete the nomination form found elsewhere in this newsletter.

Ken Gladyszewski President

Some Editorial Comments

*A TERRIBLE LOSS!

We were saddened to recently learn of the death of one of our most valued members, "Someone Else". "Someone Else's passing created a vacancy that will be difficult to fill. "Someone" had been with us almost since our club was formed, and during that time, "Someone Else" did far more than a normal person's share of the work. Whenever leadership was mentioned, this wonderful person was looked to for inspiration, as well as, results. Too often it was said, "Someone Else" can work with that group or committee. Whenever there was a job to be done or a meeting to attend, one name was on everybody's list, let "Someone Else" do it! "Someone Else" was a wonderful person, sometimes appearing superhuman, but a person can only do so much. Were the truth known, everyone expected too much from "Someone Else". Now "Someone Else" is gone, and we wonder what we are going to do. "Someone Else" left a wonderful example to follow, but who is going to follow it? Who is going to do the things that "Someone Else" did?

The previous paragraph was copied from the CIN-DAY USER GROUP newsletter, who repeated it who took it from the NEW HORIZONS USERS GROUP newsletter, who repeated it from the PORTLAND USER'S GROUP newsletter. Thanks to all of them!!

Now is the time to share in "Someone Else's" glory. A lot of people can make the load lighter for everyone. Just yesterday my wife asked me why I was doing the Newsletter. What could I tell her? That "Nobody Else" would do it? Or that "Everybody Else" was too busy to help? Doesnt "Anybody Else" want a Newsletter?

That reminds me that now is the time to think about Officers and Librarians for next year. Are there any other volunteers willing to share the load? I, for one, will continue to help in any way I can, because I know the only help I can get for my TI is in the USERS GROUPS. Are we going to sit back and let them die? That would be a terrible waste of resources. Call your President NOW and volunteer your services.

I'm sorry for sounding so harsh, but I felt it needed to be said. I welcome your comments.

Maybe we can start a USER HELP COLUMN. What are your TI Problems? If you ask us, maybe another member of our groups, or even another group, will help with a solution. Let's give it a try.

Is your name and address correct? If not, call Frank Jenkins at 283-8526 and have it corrected.

P.S. We miss the news from Golden Crescent.

Frank Jenkins Temporary Editor

Guest Columnist

WON TO PRINT DOUBLE COLUMN TEXT

compressed print, thereby getting nore on a page, but found reading 132 or 136 columns across too hard? Newspapers use several columns - why not us? What follows is a method of creating double columned text, right and left justified;. Equipment required is II-Writer and YBasic. The underscore and overstrike capabilities of the II-Writer can be used, as well as any special codes that your printer uses. (See below for special instructions for the latter.)

First of all, of course, create your text! If you want to see how easy lines there will be in the end, you can use the appropriate eargins in the Editor, but this isn't necessary. Next add the following line, before the first line:

.LH 0; RH 56; FI; AD; IN +5; PL 200

Be sure to end the line with a carriage return (Nord Nrap Node). The right margin can be whatever you want, but you should be sure to leave enough room for the margins of your final printout (i.e. two lines, left margin, right margin, and space between should be less than or equal to the maximum column capacity of your printer in condensed mode). Note that the width of the printed line will be one greater than the RM since the LM is 0. PL is a "page length" and should be more than the maximum number of lines that will be put out. Indenting of course is optional.

Now save your file using SF and go to the Formatter. As the output device DO MOT use your printer, but give the name of a disk file. I usually add a "1" to the name of the original file. When the Formatter is finished, go back to the Editor and load the newly created file. At the top you will see three little LF's representing the first three blank lines the Foreatter suts on each page. Unless you particularly want them, delets them with FCTN 3. If you don't, the tops of the first two columns won't line up. Now scan down the file until you find the end of your text. It will be followed by a whole string of LF's. Delete from here to the end (FCTN 9, D (ENTER), number of first line to be deleted, comes, E, (ENTER)). Note how all the right margins are lined up. Now save this file, using the PF function, not SF. You say use the same filename if you wish, since the one you modified is no longer necessary, but to be safe you should probably use a third name.

Now you will need to go to XBasic and run the following program.

100 CALL CLEAR ::DIN AS(200),C(200)::CRS=CHRS(13)::LFS=CH RS(10)::FFS=CHRS(12)::TS=CHRS(9):: LTS=CRS&TS::RTS=LTS&TS 110 DISPLAY AT (9,1): "IMPUT FILE?": "DSK": : "PRINTER NAME?"
: "PIO" :: ACCEPT AT (10,4) SIZE (12) BEEP: F\$:: OPEN \$1: "DSK"
&F\$, IMPUT :: ACCEPT AT (13,1) SIZE (-28) SEEP: P\$

120 DPEN #2:P\$4".CR"

130 DISPLAY AT (6, 1) ERASE ALL: "IN THE NEXT 3 INPUTS, BE SUR ETHAT INC TIMES WIDTH LEFT MARGIN + SPACE BETWEEN DOES NOT EXCEED YOUR PRINTER'S CAPACITY"

140 DISPLAY AT (12,1): "HON NANY SPACES LEFT MARGIN?6": : "HON MANY BETWEEN COLUMNS? 6": : "WIDTH OF COLUMN? 57": : "L
INES PER COLUMN? 55"

150 ACCEPT AT (13, 1) SIZE (-2) BEEP: LEFT :: ACCEPT AT (16, 1) SIZE (-2) BEEP: BETN :: ACCEPT AT (18, 18) SIZE (-2) BEEP: NIDTH :: ACCEPT AT (20, 19) SIZE (-2) BEEP: CL

160 LEFT=LEFT+1 :: RIGHT=LEFT+BETW+WIDTH

170 PRINT #2: CHR\$(15); CHR\$(27); "D"; CHR\$(LEFT); CHR\$(RIGHT); CHR\$(0)!SET CONDENSED PRINT AND TABS

180 IF EDF(1) THEN CLOSE \$1::CLOSE \$2:: STOP ELSE I, Y, X1=0
190 X=X+1 :: LINPUT \$1:A\$(X):: B=POS(A\$(X), LF\$, 1):: IF 8
THEN A6(X)=SE64(A\$(X), 1, B-1):: Y=Y+1 ::C(X)=0 ELSE C(X)=1

200 PRINT I;Y

210 IF II THEN 230

220 IF Y=CL THEN I1=X

230 IF Y(28CL AND EDF(1)=0 THEN 190

240 IF Y(21CL THEN CLOSE \$1 :: 50T0 260

250 GOSUB 300 :: SOTO 180

260 EX=0 :: FOR Z=1 TO X :: EX=EX+C(Z):: IF Z-EX=INT((Y+)

1/2) THEN I1=[:: GOTO 80

270 NEXT Z

290 50SUB 300

294 CLOSE #2 :: STOP

300 X=4 11 Y=11

310 X=X+1 :: PRINT 82:T\$;A\$(X):: IF C(X)THEN PRINT 82:CR\$:: 60T0 310

320 Y=Y+1 :: PRINT #2:T\$;A\$(Y):: IF C(Y)THEN PRINT #2:LT\$:: GOTD 320

330 PRINT #2:LF# :: IF X(11 THEN 310 ELSE PRINT #2:FF# :: RETURN

A brief explanation of the program. 100 sets up an array to hold print lines in memory while the program figures out what to do with thee, and sets up variables so I don't have to write so such. 110-150 displays messages and accepts answers with defaults. You can change these to ones of your choosing and thereby mostly press enter each time you use the program. 170 sends the code for condensed print to the printer, and sets up the tabs. Check this out with your printer sanual, in case the code is different. If you don't have tabs at all, then see the changes below - the competer cam do it toe! Now comes the seat of the program. 190 inputs each line and numbers it. B tells the computer whether there is a line feed coming and if so, eliminates it, and increases Y which is counting the print lines. If there is no line feed then C(X) keeps track of which ones . 200 isn't necessary at all - just keeps your interest on

the screen! 220 holds the place for the top of the 2nd column, and 210 makes sure this only happens once. 230 check if there is more to do, either at all, or for this page, and 240 makes sure the columns are both full (if not 260 performs a recount). The subroutine at 300 actually does all the printing!

If your printer has no tab settings whatsoever, then make the following substitutions:

310 I=X+1::PRINT #2:TAB(LEFT);As(X);CRs :: IF C(X) THEN 310

320 Y=Y+1::PRINT #2:TAB(LEFT+RIGHT);As(Y);CRs :: IF C(Y) THEN 290 and eliminate everything in 170 that follows CHRs(15).

If you are using control codes to the printer

embedded in text, use the following method to make the margins line up. Transliterate a single unused character to the code you want and add a 32, because the formatter will think this is a character to be printed and count it, but the printer won't move! (e.g. I used the open and close brace to italicize in this text — the proper command, on a separate line at the beginning of the file, would be .TL 123:27,4,32 (carriage return)) Now the only thing you have to check in the formatted file is whether this occurs at the beginning of a line. If so, eliminate the space at the beginning and add one somewhere else on the line (in FIXES MODE of course).

I hope you enjoy using this program. It was fun to write, but terrible to get the bugs out!!!

Too Freeman

FOR SALE!

T1-99/4A Computer
P.E. Box
RS-232 Interface Card
Speech Synthesizer
Joysticks
Cassette Cable

Extended Basic
Personal Record Keeping
Super Sketch (Video Graphics)
Typeritor (Word Processor)
Weight Control & Nutrition

Early Loarning Fun, Early Reading Fun, Addition and Subtraction I, Alien Addition, Minus Mission, Bragon Mix

Hustle, Tombstone City, Zero Zep, Connect Four, Yahtzee, Alpiner, Amazeing, TI Invaders, Car Wars, The Attack, Sneggit, Parsec

T1-99/4A 51 Fun & Educational Programs (cass & san)

PR1CE: \$200.00

Contact: Joanne or Jack at 234-3270

	BUICK REFERENCES BHEET									
	COLO	-0 PA	PATTERN IDENTIFIER			FIRST COMMAND OR STATEMENT				
•	COLOR	VALUE		ONVERSION	TABLE	PIRST	OPEN CLOSE	· STATEMENT	•	
	TRANSPARENT BLACK	1	į				INPUT			
	NES. OREEN	3	Ì	111	3		RESTORE			
	LT. JLUE	į				\$	BELETE			
_	CYAN RED. RED		ě		7		EOF			
į	LT. RED SK. YELLOU	10	•		, i	SECOND	BRIVE NOT		t .	
Ĭ.	LT. YELLOW SK. GREEN	12	į		Ę		PROTECT			
Ž	BRAY		Ĭ	1111		• •	OUT OF SP	PERATION ACE	_	
-	GHITE.	••	į				END OF			
3							BEATCH BY	e error		
=			•					not exist	14	
5	********			ASCII	CODES				_	
7	CODE CODE		DDE B2 R	CODE	CODE	133 CODE	60	TODE WEXT		
	Ei Am	1 45 2	3 \$	190 d	116 5	134 135	SOSUE	151 READ 152 STOP 151 DELE	76	
76	33 ! 91 34 • 92	4 ÅÝ Ē	95 U	102 + 103 9 184 h	121 7	134 137 138	RETURN BEF BIM	194 REM 195 DN	•	
	35 0 B3	ă 71 ê (97 W 90 X 97 Y	103 1	122 É	137 148	END	184 PRIN' 187 CALL		
\$- <u>-</u>	37 % 95 38 % 94 39 * 97	9 73 1 1	Po ż Pi t	107 6	124 (141 142	LET BREAK	158 OPTI	_	
	46 (56	1 75 K	∳2 \ ♥3 }	107 0	124 127 DE		TRACE	165 CLOS	_	
žž	42 + 62	4 77 M	94 ^ 95	1112		SE 146	UNTRACE INPUT BATA	162 DISPI	Ë	
. n	44 . 43		94 97	113	136 !! 13! ! 132 !F	148	RESTORE RANDOMIZE	145 ERRO	R	
۾ ڇ	47 /	*****	****	ALUE OF KE	YSTROKES	*******	DARLICK ME.	TURN VALUES	" <	
25	CHARACTER	SETS & CO		KEYSTRO	KE 	· •		yp	•	
	BET ASCII (38-31 1 32-39	CODES T	2 .	CTN 7 CTN 4 CTN 1		ě	1.0	4)		
M •	2 48-47 3 48-85	÷	4 P	CTN 2		•	(-4,4)	(4;4)		
22	4 \$6-63 5 64-71	•	7 F	CTN B			`\ (8,p-	./ (4,8)		
<u> </u>	6 72-79 7 88-67	i,	•	CTN B CTN D CTN X			E	:\ RIGHT		
بدنة	9 96-75 9 96-15 18 184-11	3 🛉 į	1	CTN E		•	(-4,-4)	(4,-4)		
0	11 112-11	• • 1	iā į	CTN 5		į	(*	-4) DUN		
~ * •	13 120-13 14 136-14	ž 🗼	15 1	FÇTN Ý				- 	**	
	16 152-15	1\BASIC # P/ONLY #	; ******				STATEMENT			
	CONT	ROL CODES		ACCEPT CHAR	DISTAI END	LET	ON WAR	SOUND	•	
U L	ASC PRESS		ADING	CHARPAT	ERK FOR SCHAR	LINK LINPU LOAD	T PATTER	N SPRIT	E	
3.6	2 CTRL B	END OF TEXT	R.	CLEAR CLOSE COINC	005UB	LOCAT MAGNI	FY PRINT	ON EMP		
<u>, </u>	4 CTRL D 5 CTRL E 6 CTRL F	INGUIRY	•	D COLUR D BATA	HCHAR IF TH	MOTIC FM MEXT	RANDOM READ	IZE		
a d y	7 CTRL 6	BACKSPACE		DEF DELSPRI	BOAME TE INIT	ON EX	ROR RESTOR	E		
g a	9 CTRL 1	MORIZ. TAS		e DIM B DISPLAY		ON 60)TO BAY H aduruban a		100	
10	11 CTRL M 12 CTRL L 13 ENTER	. FORM FEED	•			CALL L	OADS			
3 1	13 ENTER 14 CTRL P 15 CTRL C	A SHIFT OUT	•	ADDRESS			RIPTION 04 FLASH	-4 CURSOR		
	14 CTRL F	BATA LINK E BEVICE CONT	SCAPE ROL 1	0 -32740 4 -31788	POKE 19 POKE 19 PEEK X,	2 DIS/	IBLE SPRITE	ACCION		
	10 CTRL	B BEVICE CONT	KOL 3	.	POKE X.	Y		dvileta a)		
	20 CTRL 1 21 CTRL 1 22 CTRL 1	U NES. AEKNOU U BYNCHRONOUS	LEDGE	•	POKE 32 POKE 44	Dis	ABLES SOUNI	PRITE MOTIL) 	
	23 CTRL	w end of tran	ISMIS.	• -27898	POKE 4	446	BEALLOA!	, types		
	25 CTRL	A END OF MEDI	UFF	• -31848 • -3187E • -31865	POKE 9-	26 High	hoot & BPRI	ITE IN BOLIN		
•	20 CTRL	m file bepara I droup bepar	RATOR	• -31942 • -31942	POKE 9/	ize Unp	rotecto/Pro urno to TI	LE SCREEN		
	30 CTRL	e record separa • Unit separa	URATOR LTOP	4 -21422	PEER A.I	P & BAP	DEKILLOA! Dvors prog! Boooch Syn.	some Speed	AD Lh	
	127 BHIFT	V BELETÉ CHAF	iac ter	a -20472	PERK A		****			

Using "PRINT USING" with your printer By Richard Roberts TI3552

One of the more obscure statements available with TI Extended BASIC is one called PRINT USING. Even more obscure is the fact that this statement can be used to format variables and constants that will be dumped to your printer. The Extended BASIC manual, on page 150, shows several examples of how PRINT USING can be used to format data for screen display, but nary a word of how to do the same with open files. It can be done, and is much more powerful than you may realize.

Any discussion of PRINT USING will require an understanding of the IMAGE statement, so if you are not familiar with it, you better brush up on it first. The PRINT USING statement uses IMAGE in one of two ways, either with a string expression, or a line number reference. I prefer the latter, as it allows for more flexibility, but since these different methods are explained in the manual, I will limit this to a few simple examples that are not shown in the manual.

100 TCDST=19.55

110 IMAGE ##. ##

120 OPEN #1: "PIO"

130 PRINT #1, USING 110: TEDST

Running this sample program will effectively show how the PRINT USING statement will work with an open file. Of course, there are many other variations of IMAGE that can be used, so experiment with them and watch how it performs when line 130 dumps it to the printer. Shown below are a few more examples for use with an open file.

110 IMAGE "##.## ##.##"

130 PRINT #1, USING 110: CDST1, CDST2

This version shows how you can format the printed line for string data as well as numerical data. A string variable could be used in place of the string constant, as below.

105 AS="TOTAL COST"

110 IMAGE "######## ##.##"

130 PRINT #1, USING 110: A\$, TCDST

It is also possible to place the IMAGE statement inside the PRINT USING statement, as shown below. First, delete line 110.

130 PRINT #1, USING "##.##": TCOST

or 130 PRINT #1,USING "######### ##.##

: A\$, TCOST

A few other points to remember include the fact that IMAGE and PRINT USING can be used to round off single calculated variables. string expression such as ######. ##" will round off and decimal align numbers as small as number at any designated location. This function could save many hours algorithm development for accomplishing the same thing. So, in the long run, the PRINT USING statement is one that any programmer should be very familiar with, and use as much as possible. RICHARD ROBERTS IS PRESIDENT OF THE DALLAS TI99/4A USERS GROUP. SOFTMAIL WELCOMES TUTORIALS OR OTHER INTEREST THAT USERS MAY ITEMS OF WISH TO SHARE WITH OTHERS. THROUGH EFFORTS SUCH AS RICHARDS WE MAY WELL

Thanks to

BE ABLE TO ENJOY AND BENEFIT

FROM OUR ORPHAN AS LONG AS THOSE

POOR SOULS LEFT HANGING WITH BANANA

9000 JUNIOR! MAYBE EVEN LCNGER!

No. NJ 99'ers User Group

May 1985 Newsletter

RPAGE

ALL

NEWSLETTER SUBSCRIPTION ONLY

Send me the next 12 issues of the CLEVELAND AREA 99/4 USER GROUPS NEWSLETTER. I am enclosing a check or money order for \$6.00.
PLEASE PRINT.
Name
Address
City, State ZIP
Mail to: TI USER GROUP'S NEWSLETTER c/o Frank Jenkins, 19809 Gladstone Rd., Cleveland, OH 44122
*This subscription not necessary for fully paid members of the User Groups.
Send me a membership form for the following group:
Solon: TI Chips: Golden Crescent: Northcoast.

NEW ADDRESS CLEVELAND AREA 99/4A USERS GROUPS P.O. BOX 1283 CLEVELAND, OHIO 44120

CHECK YOUR EXPIRATION DATE.
THIS MAY BE YOUR LAST ISSUE!

04/86

RR Caboose 1890s

USA 11c

!! TIME DATED MATERIAL !!