NEWSLETTER OF THE DECATUR 99er USERS' GROUP

PRESIDENT'S NOTES...by L. R. Livergood

Welcome to all our new members and thanks to those who renewed their dues for another year. This is the third straight month we have experienced growth in our membership. Hardly seems like the predicted pattern of a dying cause!

Speaking of dying, I'd also like to welcome the few thousand PCjr owners who were recently given word on national TV that their machine is slated for the closet. You say the software support will still be there along with new hardware products for future upgrading...? It all sounds too familiar.

Looks like it's back to Thursday evening for our April meeting. We're on the Library's calendar for April 11 and also May 9 for those of you who plan that far ahead.

While on the subject of the library, I want to remind you that they seem to have a steady stream of computer related books appearing on the bookshelf, many of which are either for, or indirectly related to the programming of the TI99/4A. If you haven't browsed around in that area lately then I'd suggest coming to the meeting early to take a look.

April's program should be a good one. We will again try to have a complete system available along with several programs to demonstrate. D+D Publishing has launched a hefty marketing campaign for one of their new adventure games. \$1000.00 goes to the lucky person who can solve SAXSAAN by midnight, November 1, 1985. They've even gone as far as sending us a demo of selective excerpts from the program so you can start generating some possible answers right away. Additional information will be available at the meeting.

There will be two other programs of interest at the meeting from Ramsoft Enterprises. One will be available to all members through the group library. Computer Craps, which formerly sold for \$14.95, is now free. No, we have not pirated the program. Ramsoft has turned it over as freeware to anyone interested. If after you have tried it and you truely like it then send them \$5.00 to show it, else give it to someone else. I have tested this program and found it to be well worth the price. System configuration requirements are heavy, however (Extended, 32K disk).

The other program called TC-MAIL also seems priced right. This is a high powered mailing list program written in FORTH for only \$9.95. You say you don't have FORTH? No problem because everything you need is included. To run TC-MAIL you have to have an expanded system and the E/A Module. Features include a 40-column display and fast multiple sorting of data fields to name a few. They have kept their price down in order to discourage copying. They also say there are more low cost FORTH programs on the way.

HARDWARE REVIEW...by Jay Seaberg

In our last newsletter, Larry revealed that I was one of the 'brave souls' who ordered a disk drive and controller from American Design Components in Moonachie, NJ. The price was \$99.95 for an original TI standalone drive and controller. I also ordered a spare keyboard for \$5.95. After waiting one month I finally received my order, and I'm glad to say the wait was worth it. This is a 'freight train' set-up, with the controller plugging into the console on the right end. The disk drive can be placed anywhere.

I never fully realized how slow cassette tapes are for computer use. I ran several benchmark trials with this system, and the numbers are surprising. On average, the cassette system loads at the rate of 70.5 bytes/second. The disk system loads at 990.5 bytes/second. This means data retrieval is 14 times faster. I don't know if double side/double density drives are faster.

In addition to the time saved in actually loading a program or data, there are other advantages. With disk, you don't have to hunt for the start of a program, interactive files are available, and you can back up programs quickly as you type.

However, you do give up some things when you switch to disk. You lose 2000 bytes of RAM memory if your disk drive is turned on. This has stopped me from running some of my favorite programs, especially if the dimension statements tie up a lot of memory. Another potential problem is the amount of time spent at the computer rediscovering all the neat programs you have forgotten. The third and last problem is the desire and need to find a 32K RAM stand alone memory...but I'll keep on hunting.

The last I heard, ADC was sold out of these drives, but hoped to get some more. We will keep you posted on the availability.

CONGRATULATIONS !!!!!

We wish to congratulate one of our younger members. Anthony 'Tony' Brummett, son of Dick and Mary Brummett, has received two prestigious awards recently.

Tony was named a National Award Winner in Science by the United States Achievement Academy. He was nominated for this honor by teacher Greg Evans.

He has also been selected as an Acedemic All-American Scholar.

Tony is a seventh grader at Johns Hill Middle School. He is very active in programming on the TI 99/4a. Congratulations, Tony, from everyone in the group!

TIPS FROM THE TIGERCUB

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Distributed by Tigercub Software to TI-99/4A Users Froups for promotional purposes and in exchange for their newsletters. hay be reprinted by non-profit users groups, with credit to Tigercub Software.

The entire contents of Tips from the Tigercub Nos. 1 through 14, with more added, are now available as a full disk of 50 programs, routines and files for just \$15.00 postpaid!

Nuts & Bolts 16 3 disktull of 100 (that's right. 100!) XBasic utility subprograms in MERGE format, ready for you to merge into your own programs. Contents include 13 type fonts, 14 text display routines, 12 sorts and shuffles, 9 data saving and reading routines. 9 Wipes, 8 pauses, 6 music, 2 protection, etc., and now also a tutorial on using subprograms, all for just \$19.95 postpaid!

And I have about 140 other absolutely original programs in Basic and IBasic at only \$3.00 each!(plus \$1.50 per order for casette. packing and postage, or \$3.00 for diskette, PPM) Some users groups charge their members that much for public domain programs! I Will send you by descriptive catalog for a dollar, which you can then deduct from your first orger.

Come on now, tolks, don't you support your local schools? And don't you support those who support

you? There are thousands of schools which have TI-99/4A computers in the classroom, usually without disk drive and without Extended Basic. They coul d UES educational programs in Basic on casette. They could probably use some of the public domain software in your library. Maybe they could use some of the educational programs [sell for just \$3 (and I authorize schools to copy them for use within the school). There is probably such a school in your area - is your group supporting it? In the last Tips, I asked the members of 101 users groups to give se the addresses of schools that had lis, so I could send them a free catalog. How many addresses did I get? lero to the power of zero times zero!

Hore on the pestiferous asterisk bug in TI-Writer. Dr. Guy-Stefan Romano has confirmed and explained it. If you are printing out of the Formatter mode and your text contains an asterisk followed by two or more numeric digits the asterisk and two digits will disappear! For instance, A\$256 becomes A6, and I've noticed that A6 in programs published ın several newsletters recently.

The Il-Writer program sisinterprets the asterisk and two digits as an instruction to input data from a "value file" (see Alternate Input on p. 111 of the manual).

The solution to this bug is to type two asterisks tollowed by two duany digits. then the actual didits. For instance. instead οf A1256 type A\$\$25256. Trouble is, the bug usually shows up in a program which has been LISIED to disk and then MERGEd into TI-Writer, and is usually not noticed. The solution? Run the program through by 28-Column Converter (see Tips \$18!).

Dr. Romand informs me that there is an even worse bug in the Transliterate command coding, erratic and sometimes destructive. It is triggered by certain sequences of characters, but these have not been documented.

Dr. Romano says that he does not use transliteration.

I would suggest that you also avoid the use of the k and &. The & will only underline a single word, unless you tie words together with the ^ sign. If you tie words together. the Fill and Adjust will leave gaping blanks in your lines and if you tie too many together the line will extend beyond the right margin! Also. the underlining is a broken line. It is better to use the escape codes CTRL U. FCTN R, CTRL U. SHIFT - CTRL U, SHIFT A, CTRL U, which will give a solid underline until you turn it off with CTRL U, FCTN R, CTRL U, SHIFT -, CTRL U, SHIFT &. CTRL U.

The & is handy to emphasize a single word, but if you want to double-strike a whole sentence or paragraph it is better to use the escape code CTRL U, FCTN R, CTRL U, SHIFT 6, and turn it off again with CTRL U, FCTN R, CTRL U, SHIFT H.

The period buq is another killer the Formatter thinks that any line which begins with a period 15 à formatter command, and deletes the whole line! If your text contains a decimal value such as .11 and the wraparound puts it at the beginning of a line, the line disappears! There are two ways around this - put a O in front of all your decimals, as O.11, or transliterate all your periods.

In all, the TI-Writer foreatter is a temperamental and unpredictable piece of software, prome to unwanted line feeds and unexpected paper-wasting form feeds. I like to use it to right-justify text back to the disk, but from then on I prefer to print it out of the editor mode, or out of my own program.

Designing downloadable characters for the Semini printer (see page 115 of the manual) is a bit tricky because it is hard to visualize how the expanded pattern will appear orint. The following program will enable you to experiment with designs, dump them directly to the printer for viewing, then save thes as a file. When you later dump this file into printer RAM for use. must activite the download characters with the escape code -CHR\$ (27); CHR\$ (36); CHR\$ (1).

100 CALL CLEAR :: CALL SCREE N(4):: CALL CHAR(128, *FF8181 81818181FF*,129,RPT*(*F*,16)):: CALL COLOR(13,2,16) 110 FOR R=9 TO 15 :: CALL HC HAR(R,11,128,9):: NEXT R 120 X=1 :: FOR R=9 TO 15 :: DISPLAY AT(R,7)SIZE(2):STR4(X):: X=X+2 :: NEXT R :: FOR C=9 TO 17 :: DISPLAY AT(B,C) SIZE(1):STR*(C-8):: NEXT C 130 DISPLAY AT(2.9): "TIGERCU B'S" 1: DISPLAY AT (4.1): "6EM INI CHARACTER DOWNLOADER" !s rogrammed by Jim Peterson to r the Public Domain 140 DISPLAY AT(17,1): Move cursor with W.E.R.S.D.":"1,1 and C keys. Toggle on": "and off with 0 key. Press": "Ent er when finished.": : : Pres

s any key* 150 CALL KEY(O.K.ST)11 IF ST #0 THEN 150 1: CALL HCHAR(17 ,1,32,2241 160 Re9 11 C=11 11 CH=128 170 CALL HCHARIR, C. 32111 CAL L HCHAR(R.C.CH):: FOR D=1 TO 10 :: NEXT D :: CALL KEY(3, K.ST):: 1F ST=0 THEN 170 180 ON PUS("WWERDCIIS"&CHRS(13),CHK\$(K),1)+1 60T0 170.31 0,230,220,210,200,190,260,25 0.240.330 190 K=K+1 200 C=C+1 :: 60T0 270 210 E=C+1 220 R=R-1 :: 6010 270 230 K≠R-1 240 C*C-1 :: 60TO 270 250 C=C-1 260 R=R+1 270 R=R-(R(9)+(R)15)11 C=C-(C(11)+(C>19):: IF CH=128 THE N 300 :: CALL 6CHAR(R.C-1.6X):: CALL GCHAR(R,C+1,62):: 1 F (61<>129) \$ (62<>129) THEN 30 280 DISPLAY AT (22,1): You ca n't have two in a row":"hor: zontally!" :: FOR D=1 TO 50 11 NEXT D :: DISPLAY AT(22,1 290 CH=CH-1 SUO CALL HCHAR(R.C.CH):: bUT 0 170 310 CH=CH+1+(CH=129)#2 ## 1F CH=128 1HEN 320 :: CALL 6CH AR(K,C-1,bX):: CALL GCHAR(R. C+1.623:: 1F (61()129)*(62() 129) THEN 320 ELSE 280 320 CALL HCHAR(K,C,CH):: 601 0 1/0 330 FOR C=11 TO 19 :: X=1 :: FUR K=9 10 15 :: CALL BUMAR (R.C.b) 540 IF 6=129 THEN A=A+X 350 1=112 11 NEXT R 360 FUR J=1 10 LEN(STK\$(A)): : CALL VCHAR(15+J.C.ASC(SEB) (Sìks(A),J,1))):: NEXT J :: MS=MS&CHRS(A):: A=0 :: NEXT C 11 A=0 370 DISPLAY AT(20,1): "Print? Y/N Y" :: ACCEPT AT(20.12)V ALIDATE("YN")SIZE(-1):05 :: IF 95="N" IHEN 470 380 1F F=1 THEN 390 :: F=1 : : DISPLAY AT(20,1): "Printer name?" :: ACCEPT AT(20,15):F 4 11 BPEN 411P\$

390 DISPLAY AT(20,1)1"ASCII to redefine?" 11 ACCEPT AT(2 0,20) VALIDATE (DIGIT) 817E (3): CH 400 DISPLAY AT(20,1): Descen der (0 or 1)? 0" 11 ACCEPT A 1(20,21)VALIDATE("01")B1ZE(-1):D\$:: D=VAL(D\$) 410 hs=CHR\$ (27) &CHR\$ (42) &CHR \$(1)&CHK\$(CH)&CHK\$(D)&H\$ 420 PRINT BISMS IS PRINT BIS CHK\$ (27) ; CHR\$ (36) ; CHR\$ (1); 430 PRINT 01:RPTs(CHRs(CH).7 2):: PRINT #1:CHR\$(14):RPT\$(CHR # (CH) . 36) 440 DISPLAY AT(20,1): "Save (Y/N)? Y* 1: ACCEPT AT(20,13) VALIDATE("YN")SIZE(-1):0\$:: IF DS="N" THEN 470 450 IF F3=1 THEN 460 :: F3=1 II DISPLAY AT(20,1):"Filena me? DSK" :: ACCEPT AT(20,14) 164 11 DPEN #21"DSK"&F4 460 PRINT #2:#\$ 470 Ms="" :: DISPLAY AT(20,1): "Another (Y/N)? Y" :: ACCE PT AT(20,16) VALIDATE("YN") SI ZE(-1):05 :: IF 05="Y" THEN 480 CLOSE #1 :: CLOSE #2 :: END

ran a Micropendiua contest to improve on briet ingenious organ The winner **235** program. Bachael Christianson, who program. wrote a SUDEFD You'll to buy the have the January ISSUE ΔÝ to get it (you #acazine De subscribing. snould anyhow!). i didn't enter the contest, of course, and ay version is not nearly as good, but have fun -

90 CALL CLEAR
95 PRINT TAB(5): "MICKOPENDIU
M UMGAN": 1:1:1:1:1:1*PI
ay bass with left hand": 1"0
n left side of keyboard, "::
"melody on the right": 1:
100 REM - MICROPENDIUM ORGAN
modified by Jim Peterson
110 UPTIUN BASE 0
120 DIM NUTE(20)
130 FOR A=0 TO 20
140 READ NUTE(A)
150 NEXT A

160 DATA 40000,220,247,262,2
94,330,349,392,440,494,523,5
87,659,698,784,880,988,1047,
1175,1319,1397
170 CALL KEY(1,K1,S)
180 CRLL KEY(2,K2,S)
190 CALL SOUND(-1000,NOTE(K2+1),0,NOTE(K2+1)\$1.01,5,NOTE
(K1+1)\$3.75-ABS(K1+1=0)\$1100
00,30,-4,0+ABS(K1+1=0)\$30)
200 6010 170

A sprite routine that doesn't do anything but look pretty. I call it Patches.

50 CALL CLEAR :: CALL SCREEN (5) 100 As=RPTs("AA55",16):: B\$= RPTS("F",64):: CALL MAGNIFY(4):: RANDOMIZE 110 FOR CH=40 TO 136 STEP 8 1: CALL CHAR(CH, AS, CH+4, BS): : NEXT CH 120 C=2 11 S=40 11 R=1 11 FD R T=1 TO 24 STEP 2 :: COL=15 ORRND+50 :: CALL SPRITE(#T.S .C.R,COL,#T+1,S+4,C+1,R,COL) 1: S=S+8 :: C=C+1 :: R=R+15 1: NEXT T 140 FOR T=1 TO 50 :: CALL CO LOR (#INT (24#RND+1) . INT (16#RN D+1)):: NEXT T :: 50T0 120

This is one that I fancied up, based on a sprite routine written by a youngster named Andrew Sorenson, published in the Sydney Newsdigest from Australia.

100 ! WILL O' WISP by Jim Peterson based on Andrew Sorensen's sprite routine 110 CALL CLEAR :: CALL SCREE N(2):: CR#48 120 FOR CH=48 TO 63 11 FUR L =1 TO 4 :: RANDOMIZE :: X=IN T(16#RND+1)#2-1 :: I#=SE6#(" 0018243C425A667E8199A5BDC3DB E7FF", X, 2) :: B\$=B\$&X\$:: C\$= 18ECS 1: NEIT L :: CALL CHAR (CH.B\$&C\$):: B\$,C\$="" :: NEX T CH 130 FOR N=1 TO 28 :: CALL SP KITE (#N, CR, INT (141RND+3), 81N

+20,120,5,0):: NEXT N :: IF

CR=64 THEN CR=48 II T=T+1+(T =2) \$2 II CALL MAGNIFY(T) 140 X=(INT(38RND)-1) \$4 II Y= (INT(38RND)-1) \$4 150 IF INT(108RND+10)<>10 TH EN 170 160 CR=CR+1 II 60TD 130 170 FOR N=1 TO 28 II CALL MO T10N(8N,-Y\$20,X\$20) II NEXT N II 60TO 140

Here are a few core enhancements to my Menu Loader, published in Tips #15. Delete line 150 and add

101 OPTION BASE 1 :: DIM PGS
(127):: ON MARNING MEXT :: 6
DTO 110
105 @,A,As,B,C,Ds,FLAG,I,J,K
,KD,KK,Ms,NN,Ps,PGS(),Qs,S,S
T,TS(),TT,VT,X
CALL INIT :: CALL LOAD :: CA
LL LINK :: CALL PEEK :: CALL
KEY :: CALL SCREEN :: CALL
COLOR :: CALL CLEAR :: CALL
VCHAR :: CALL SOUND :: !@P-

The pre-scan will speed up run time by a worthwhile amount. The warning default will prevent a screen scroll on an erroneous Enter.

when you're finished printing strip labels, cut off the strip BEHIND the platen and roll it FORMARD! You'll waste a few labels that way, but if you try to roll backwards and get a gumay label stuck in the works, you've got trouble!

MEMORY FULL

Jim Peterson

the Tigercub

PRODUCT INFORMATION LIST MARCH 1985

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CORCOMP, INC 1255 NORTH TUSTIN AVE ANAHEIM, CA 92807	PHONE 714-630-2903	Stong effort in new hard- ware. Has had past growing pains. Quality products.
ARDEN ENTERPRISES P.O. BOX 89 WALKERSVILLE, MD 21793		Little known about quality or business. Have sent us a two page ad for software
DESIGNER SOFTWARE P.O. BOX 525 JACKSONVILLE, AR 72076		Received one page add for filing system. No other business with them.
M + T UTILITYWARE 3507 MURL MUSKEGON, MI 49442	PHONE 616-773-4504	Utility type full system software. Getting good reviews from pro sources.

Sends us free software for our newsletter. Quality material. Catalog avail.

FOUNDATION COMPUTING 74 CLAIRE WAY TIBURON, CA 94920	PHONE 415-388-3840	128K card for PEB + other hardware. Complaint about delivery by member.
J + HK SOFTWARE 2820 S. ABINGDON ST ARLINGTON, VA 22206	PHONE 703-820-4131	Known for Super Extended Basic program.
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INFOSOFT P.O. BOX 1484 GROTON, CT 06340	PHONE 203-448-1126	Mostly full system soft- ware including the Graphic Construction Kit.
RAMSOFT ENTERPRISES 1501 E. CHAPMAN, SUITE 338 FULLERTON, CA 92631		Starting to write Forth programs to sell under \$20
DRAGONSLAYER ASC 2606 PONDEROSA DR. OMAHA, NE 68123	PHONE 402-291-8323	Markets an auto spelling checker for TI-WRITER.
D + D PUBLISHING 3177 BELLEVUE TOLEDO, OH 43606		Adventure software and computer books.
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THE MODIFIES DY TO TORK (CIM-DAY 49 WSEX BROWN) The programs listed on the next-page comes to us from two seperate sources. The programs are entitled "SPEAK-M-PROOF PART DNE", "SPEAK-N-PROOF PART TWO" and "TRANSLATOR". Since nobody, and I do mean nobody, types perfectly, a "talking proofreader" is the nex best thing when you cannot find a willing friend to read back to you what you've typed. Whether you are writing a document on a word processor such as TI-WRITER, or typing in a BASIC or EXTENDED BASIC program, mistakes are virtually inevitable. It is so easy to omit a key word or transpose a number. It can be quite difficult to detect typing errors in a BASIC or EXTENDED BASIC program especially when there are a long series of numbers or symbols. It is quite nice to have the Speech Synthesizer read back to you what you have typed, while you visually check this against the original document or program listing. Since your eyes will be focusing or one listing rather than two, you are less likely to lose your place as you check your typing. The purpose of SPEAK-M-PROOF PART ONE is to reformat your text file or program listing so that it can be used by SPEAK-N-PROOF PART TWO. You will be asked if your text file or program listing contains both upper and lower case letters. A text file would most likely contain both upper and lower case letters, whereas a program listing would most likely contain all upper case letters. The purpose of SPEAK-N-PROOF PART TWO is to read back to you, via the Speech Synthesizer, the text file or program listing that has been processed by SPEAK-N-PROOF PART OME. You will also be asked if your text file or program listing conatins both upper and lower case letters. You should logically answer this question the same as you did in SPEAK-N-PROOF PART ONE. You will also be asked if you wish for the Speech Synthesizer to pause after each line. Since each line of either the text file or the program listing is displayed on the screen, you may elect to have the Speech Synthesizer pause while you inspect each line. The purpose of TRANSLATOR is to translate a BASIC OR EXTENDED BASIC program listing, that has not been processed with SPEAK-N-PROOF PART ONE, into a MERGE format which can then be called by EXTENDED BASIC only! Any files saved with either the TI-WRITER or EDITOR/ASSEMBLER Command Modules are saved in a DISPLAY/VARIABLE BO format. Momever, in order to save a program listing in either BASIC or EXTENDED BASIC, you simply enter your program into memory and type in the following: LIST "DSK1.FILENAME". Note: DO NOT TYPE IN THE ENDING PERIOD! This will save your program listing in a DISPLAY/VARIABLE 80 format which can be read by both SPEAK-N-PROOF PART ONE and TRANSLATOR. Now you can write either BASIC or EXTENDED BASIC programs using either the TI-WRITER or the EDITOR/ASSEMBLER Command Modules and have the TRANSLATOR program translate your program into a MERGE format. Note: After a program has been processed by TRANSLATOR, you will find that TRANSLATOR places an EXTENDED BASIC REM ("!") in front of each line. The advantages gained by either reading or writing your programs with the TI-MRITER or the EDITOR/ASSEMBLER Command Modules are many. You have the full use of the editing capabilities that are available with either TI-WRITER or EDITOR/ASSEMBLER. SPEAK-N-PROOF PART ONE and TWO were written by Roy T. Tamashiro and was published in the

St. Louis 99'ers users group newsletter. TRANSLATOR was program idea by John Hamilton (of the Central Iowa 99/4A Users Group), modified by Frederick Hawkins (of the Lehigh 99'er Computer Group) and second modification by Ed York (of the Cin-Day User Group).

Note: The first modification appeared in the Lehigh 99'er Computer User Group newsletter.

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100 REH SPEAK-N-PROOF	100 REM SPEAK-N-PROOF		
110 REM	110 REM	100 ! TRANSLATOR	
120 REN PART ONE	120 REM PART TWO	110 !	
130 REM	130 REN	120 ! PROGRAM IDEA BY:	
140 REM WRITTEN BY:	140 REM WRITTEN BY:	130 !	
150 REM	150 REM	140 ! JOHN HAMILTON OF THE	
160 REM ROY T. TAMASHIRO	160 REM RDY T. TAMASHIRD	150 !	
170 REN	170 REM	160 ! CENTRAL IOMA 99/4A	
180 DISPLAY AT(4,6) ERASE ALL	180 CALL CLEAR	170 !	
:"# SPEAK-N-PROOF #" :: DISP	190 PRINT TAB(6);"\$ SPEAK-N-	180 ! USERS GROUP	
LAY AT(6,10): "PART ONE" ::	PROOF *": :	190 !	
DISPLAY AT (12, 1): "ENTER THE	200 PRINT TAB(10); PART THO	200 ! PROGRAM MODIFIED BY:	
FILE NAME BELOW: ": : DSK1."	*: : : :	210 !	
190 ACCEPT AT(14,6)SIZE(10):	210 PRINT "DOES THE TEXT FIL	220 ! FREDERICK HAMKINS	
A\$:: B\$="DSK1."&A\$:: DISPL	E CONTAIN*: :	230 !	
AY AT(16,1): "DOES THE TEXT F	220 PRINT "BOTH UPPER AND LO	240 ! DF THE LEHIGH 99'ER	
ILE CONTAIN": : "BOTH UPPER A	WER CASE": :	250 !	
ND LOWER CASE*	230 PRINT "LETTERS?": : : :	260 ! COMPUTER GROUP	
200 DISPLAY AT(20,1):"LETTER	:::	270 !	
S? Y" :: ACCEPT AT(20,10)SIZ	240 CALL.KEY(0,A,B)	280 ! PROGRAM MODIFIED BY:	
E(-1)VALIDATE("YN"):C\$:: DI	250 IF (A<>89)+(A<>78)=-2 TH	290 !	
SPLAY AT(10,4) ERASE ALL: "I A	EN 240	300 ! ED YORK OF THE	
M REFORMATTING THE"	260 PRINT "SHALL I PAUSE A M	310 !	
210 DISPLAY AT(12,4): "FILE,	OMENT AFTER": : "EACH LINE? Y	320 ! CIN-DAY USER GROUP	
SO PLEASE WAIT. :: OPEN #1:	•	330 !	
B\$, INPUT , VARIABLE BO :: OPE	270 CALL KEY(3,C,B)	340 DISPLAY AT(6,10)ERASE AL	
N #2:"DSK1.PROOF-FILE", OUTPU	280 IF (C(>89)+(C(>78)=-2 TH	L: "TRANSLATOR" :: DISPLAY AT	
T, INTERNAL, VARIABLE 90	EN 270	(10,1): "ENTER FILE TO BE CON	
220 IF C\$="Y" THEN OPEN \$3:"	290 CALL CLEAR	VERTED:": :"DSK1." :: ACCEPT	
DSK1.UPPER*, OUTPUT, INTERNAL,	300 IF A=78 THEN 320	AT (12,6) SIZE (10): A\$	
VARIABLE 90	310 DPEN #3:"DSK1.UPPER", INP	350 DISPLAY AT (14, 1): "ENTER	
230 LINPUT #1:D\$:: IF C\$=*N	UT , INTERNAL, VARIABLE 90	FILE TO BE MERGED: ": : "DSK1.	
* THEN 260	320 OPEN #1: DSK1.PROOF-FILE	:: ACCEPT AT(16,6)SIZE(10)	
240 E\$="":: FOR A=1 TO LENG	", INPUT , INTERNAL, VARIABLE 9	:B\$:: OPEN #1: DSK1. LA\$::	
D\$):: F\$=SE6\$(D\$,A,1):: IF (0	OPEN #2: *DSK1. *%B\$, VARIABLE	
ASC (F\$) >96) AND (ASC (F\$) <123) T	330 OPEN #2: "SPEECH", OUTPUT	163	
	340 INPUT #1:A\$	360 LINPUT #1:C\$:: A=POS(C\$	
HEN F\$=CHR\$ (ASC (F\$)-32)	350 PRINT AS	," ",1):: ON ERROR 400 :: B=	
250 E\$=E\$&F\$:: NEXT A :: PR	360 IF A=78 THEN 380	VAL (SEB\$ (C\$, 1, A))	
INT #3:E\$	370 INPUT #3:A\$	370 ON ERROR 390 :: C=INT(B/	
260 PRINT #2:D\$:: IF EOF(1)	380 PRINT #2:A\$	256):: A\$=CHR\$(B-C\$256)	
=0 THEN 230	390 IF C=78 THEN 440	380 PRINT #2:CHR\$(C);A\$;CHR\$	
270 CLOSE #1 :: CLOSE #2 ::	400 PRINT : PRESS ANY KEY T	(131);SE6\$(C\$,A+1,80);CHR\$(0	
IF C\$="Y" THEN CLOSE #3	O CONTINUE."):: 6010 360	
280 DISPLAY AT(10,6) ERASE AL	410 CALL KEY(0,D,E)	390 PRINT #2:CHR\$(255);CHR\$(
L: "THE FILE HAS NOW": :"	420 IF E=0 THEN 410	255):: CLOSE #2 :: DISPLAY A	
BEEN REFORMATTED."	430 CALL HCHAR(23,1,32,32)	T(22,6): "PROCESS COMPLETED!"	
	440 IF EOF(1)=0 THEN 340	:: END	
	450 CLOSE #1	400 ON ERROR 390 :: RETURN 3	
	4/A CLOCE #2	th	

460 CLDSE #2

480 CLOSE #3 490 END

470 IF A=78 THEN 490

CALL KEY

THE CALL KEY PROGRAM IN EXTENDED BASIC IS A VALUABLE TOOL BUT I FOUND THAT IT HAS TAKEN HE A LONG TIME TO REALLY UNDERSTAND IT'S PROPER USEAGE. ONE THING THAT HELPED HE WAS THE FOLLOWING BUICK REFERENCE CHART WHICH I PASTED INTO MY EXTENDED BASIC MANUAL FOR BUICK REFERENCE. Joyce Corker, Wallbag, Mass.

CALL KEY 10,KEY,STATUS)

**Decomes whatever mode was used
by previous CALL KEY statement
KEY=is returned as ASC VALUE()
STATUS=-1 if NO KEY is pressed

CALL KEY(1,K,S)
Returns K values from LEFT BIDE of keyboard

CALL KEY(2,K,S)
Returns K values from RIGHT SIDE of heyboard

CALL KEY=(3,KEY,STATUS)
3=T1/97 4 MODE (FORSIVING)
K=only UPPER CASE letter values
are returned even if a
lower case letter is pressed
in error BUT only works with
FUNCTIONS 1-15 - NO CONTROL KEYS

GALL KEY-(4,K,S) PASCAL MODE provides UPPER and LOWER case letter values FUNCTIONS 129-143 - CONTROLS 1-31

CALL KEY(5,K,S)
S-BASIC mode for TI/974A
K-returns BOTH UPPER LOWER
CASE letter values BUT if
upper case answers are
asked for and lower case
are returned, the lower case
answers won't be accepted.

STATUS KEY CHANGES (EICEPT IN 'O' HODE)
S-1 (NEW KEY PRESSED)
S-0 (NO KEY PRESSED)

ACCESSING FUNCTION AND CONTROL KEYS AND ARROWS:

100 DISPLAY AT (3,3) ERASE ALL: PRESS CONTROL KEY, *
110 FOR DELAY-1 TO 600 31 NEIT DELAY
120 CALL KEY (5,K,S)
130 IF K-128 THEN PRINT "CONTROL. COMMA PRESSED"

OR: 100 DISPLAY AT(3,3)ERASE ALL:*PRESS FUNCTION RIGHT ARROW*
130 IF K=7 THEM PRINT "RIGHT ARROW KEY PRESSED"

OR: 100 BISPLAY AT(3,3)ERASE ALL: PRESS FUNCTION 8*
130 IF K=6 THEM PRINT "FUNCTION 8 PRESSED"

CALL KEY COMBINATIONS

I ALSO KEEP A NOTEBOOK OF USEFUL (AND REUSEABLE) TIPS AND TRICKS FOR PROGRAMMING AND I'VE NORKED BUT A FEW USEFUL CALL KEY CONBINATIONS THAT I CAN PULL BUT AND USE MEMBERS I NEED THEM. OF COURSE, YOU CAN SUBSTITUTE LINE NUMBERS OR DIRECTIONS TO SUB PROGRAMS OR OTHER INSTRUCTIONS INTO THE LOGIC INSTRUCTIONS.

YES OR NO ANSWERS WITH CALL KEY O

BO CALL CLEAR

90 PRINT "Y OR N? "

100 CALL KEY (0.K.S)

110 IF K=78 THEN PRINT "NO" 11 STOP

120 IF KCOOP THEN 100 ELSE PRINT "YES"

130 STOP IL END

SPACE BAR OR CARRIAGE RETURN (ENTER) ANSWERS WITH CALL KEY 5

100 BISPLAY AT(3,3) ERASE ALL: "PRESS SPACE BAR TO CONTINGE"

1 * "PRESS ENTER/CARRIAGE RETURN TO PRINT"

110 FOR BELAY-1 TO 400 11 HEIT BELAY

120 CALL KEY (5, K, S)

130 IF K=32 THEN PRINT "SPACE BAR PRESSED" ELSE IF K(>13 THEN 120

140 IF K=13 THEN PRINT "ENTER (C/R) WAS PRESERV

150 STOP 11 ENB

RIGIDLY CONTROLLED ANSWERS WITH CALL KEY S

100 DISPLAY AT(3,3) ERASE ALL: "PRESS Y FOR YES" : : PRESS N FOR NO"

110 FOR DELAY=1 TO 500 11 MENT BELAY

120 CALL KEY (5, K, S)

130 IF K-89 THEN PRINT "YES. YES" ELSE IF KC)78 THEN 120

140 IF K=78 THEM PRINT "NO. NO"

150 \$10P 11 END

ALPHABET ANSWERS THAT ARE FORGIVING OF WRONG CASE ANSWERS WITH CALL KEY 3

100 DISPLAY AT(3,3)ERASE ALL: PRESS R TO REPEAT': :
PRESS P TO PRINT'

110 FOR BELAY=1 TO 400 IS NEXT BELAY

120 CALL KEY (3, K, S)

130 IF K=82 THEN PRINT "HERE YOU WOULD EG TO YOUR REPEAT SUBPROGRAM" ELSE IF K<>80 THEN 120

140 IF K=80 THEN PRINT *HERE YOU WOULD 60 TO YOUR PRINT SUB PROGRAM*

150 STOP II END

YES OR NO ANSWERS HITH CALL KEY 3
THAT FOREIVE YOU IF YOU ANSWER AN UPPER CASE BUESTION HITH
A LOWER CASE ANSWER.

100 BISPLAY AT(3,3)ERASE ALL'1°PRESS Y FOR YES": 1" PRESS N

110 FOR DELAY-1 TO 400 :: MEIT SELAY

120 CALL KEY (3.K.8)

130 IF K-BY THEN PRINT "YES, YES" ELSE IF K()78 THEN 120

140 IF K=78 THEN PRINT "NO, NO"

150 STOP IS EXB

PERU, IN 46970 163 WEST THIRD 163 WEST THIRD





DECATUR, 1LLINOIS 62525 P.O. BOX 726 DECATUR, 1LLINOIS 62525

1.Who are the Decatur 99'ers?

We are an independant, nonprofit organization whose
 primary goal is to aid our members in understanding
 and using the TI99/4A Home Computer.

* Membership dues are \$15.00 per person per year.

Family memberships are \$25.00 per year, however, we # we require all children under the age of 16 to be # accompanied by an adult.

For more information write to the return address or contact:

President:
Vice-president:
Larry Livergood
Jay Seaberg
467 W William ST
Decatur, Illinois
62522
PH 217-422-6933
Vice-president:
Jay Seaberg
41 Whippoorwill
Decatur, Illinois
62526
PH 217-877-1631

NEXT MEETING DATE: THURSDAY, APRIL 11, 1985

6:30 PM TO 8:30 PM
DECATUR PUBLIC LIBRARY
SECOND FLOOR AUDITORIUM

>>>>APRIL MEETING DATE<<<<

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	1	2	3	4	5	6
7	8	9	10>	>11<	<12	13
14	15	16>	>17<	<18	19	20
21	22	23	24	25	26	27
28	29	30				

PRIZES WILL BE GIVEN OUT AT EACH MEETING TO BOTH MEMBERS AND GUESTS.