NEWSLETTER OF THE DECATUR 99er USERS' GROUP

PRESIDENT'S NOTES...by Jay Seaberg

We are beginning our third year in existence, and I am looking forward to another year of fun and learning. We all owe a debt of gratitude to our previous two presidents, Joe McMahan and Larry Livergood. Joe and Larry both exemplify the best of the computer 'hacker'. They have given their time, effort, and guidance to all of us.

Over the next year I hope to see the group grow in both size and experience. This will take some effort on all our parts. This effort will pay off in the long run for everyone.

This group fills a very real need for owners of the TI 99/4A. Since being orphaned, the market has grown. There is more available now than ever. Several of our members have gotten fire-sale prices on hardware and software. These sales were found through the members of the User's Group. In the future, we hope to be able to ferret out more of these gold mines.

Our library has grown by leaps and bounds. We now have over thirteen disks full of programs. These programs are available for checkout at our meetings. We also have a very active core group with strong backgrounds in programming and hardware.

These members, and all the officers, are more than willing to help answer questions on programming, hardware, and software. This is your group. Your dues support the monthly meetings and the newsletter. We need this support, and we also need a little of your time. Please take the time to let us know what you would like to see at our meetings. We also like to find out what you think of the newsletter. This does not take much time, but it will help us to fit your needs.

COR-COMP NOTES...by Jess Jolly

Most of the computer publications that acknowledge the existance of the TI 99/4A home computer have, in recent months, carried reviews of COR-COMP products. Since I own three of their most popular products, I decided to add my own comments.

During the first year, the DECATUR 99ER GROUP received an RS232 card, a DISK CONTROLLER card, and a 9900 MICRO EXPANSION SYSTEM for demonstration, courtesy of COR-COMP. Each of these came at a time when I was interested in upgrading my system, so all three of them wound up as part of my system.

It seems that people are either very happy with COR-COMP or very unhappy--no in between. I am one of those who has had very little trouble and have always received an adequate response to my inquiries. The RS-232 card was installed in my expansion box as soon as it arrived and seemed to work

without any problems. I recently removed it and sent it off to my son so he could use a printer.

The DISK CONTROLER was first tried by another member of the group, and did not perform properly in his system. COR-COMP approved of his loaning it to me for trial while he waited for a replacement. My experience with the card has lead me to believe that they knew what they were doing for it performed as it was supposed to in my system (it is in use as I write this). On the two occasions I had problems, I found that I was doing something wrong.

The 9900 MICRO-EXPANSION SYSTEM has been in service since Feb. of this year and is a pleasure to use. My wife noticed the absence of fan noise immediately. The file commands provide for load and run of dis/fix type of files so such things as FORTH, DISK-FIXER, etc., can be run without the EDITOR/ASSEMBLER module. Among the things listed in the manual as compatable with this system is F-CODE. Since no information on how to run it is given, I assume this is planned as a future expansion.

Not everything about any product is good and this equipment is no exception. Programs that use the TE2/SPEECH SYNTHESIZER combination will no longer speak when brought up from the DISK CONTROLER title screen. This is a minor problem once you discover that all you have to do is press the space bar twice and bring up BASIC from the TI title screen. I believe this is because the disk controler is active when the COR-COMP title screen is up and only one DSR can be on at a time.

A real problem with the 9900 EXPANSION SYSTEM is its power supply. The supply is all contained in a wall plug unit that is just plain too big to be used this way. It covers up three outlets on a power strip and strip outlets are too expensive to cover up; but I am sure not going to plug it into the wall each time I want to use the computer! The manual that came with the DISK CONTROLER was excellent and also big enough to be read by anyone—not so for the manuals with the expansion system!

The system manuals are half size with small print that is very difficult to read due to the use of the seemingly invisible and totally unreadable blue ink! Maybe this was Craig Miller's idea since he chose the same size manual and ink for his otherwise excellent advanced diagnostics program. In my case, the manuals did not pose a problem since I have the original DISK CONTROLER manual. The RS-232 32K MEMORY are also not a problem since they require little reference to a manual.

The so called "toolshed" utilities provided with the manager have received little attention but can be very useful, especially if you do not have EXTENDED BASIC. I have made little use of them so far but did go through and try all of them to see how they work. The EXTENDED BASIC command to load these utilities seems very odd since it is the DELETE command that is used for such things as removing a file from a disk etc. I don't know if this was used because it is the easiest way around the 99/4a's built-in traps or the only way. I would like to see someone print something on this.

The real test of customer satisfaction is how often he returns for another product. Since I have gone back twice I would have to consider myself a satisfied customer.

: THIS PROGRAM COMES TO YOU !	FS="N" THEN L=110 ELSE L=29	550 !181818181818181818181	820 !
FROM THE EDMONTON USERS' : 6ROUP. WHAT DOES IT DO?	5		830 !!!!!!!!!!!!!!!!!!!!
I WELL, YOU'RE LOOKING AT IT! : I WOULD LIKE YOUR COMMENTS :	320 DISPLAY AT(24,1): ALL IN PUTS CORRECT, Y/N? Y*	560 !	B40 !
ON THE OUTPUT. I FEEL THAT : I IT WILL HELP TO PROVIDE : ERROR FREE PROGRAMS IN THE	330 ACCEPT AT (24, 27) BEEP SIZ E(-1) VALIDATE ("YN"): A\$:: IF	570 ! 	B50 SUB WRITECOL (P\$(),1,X,N\$
I FUTURE.	As="N" THEN 240	590 !* SUBROUTINE SECTION *	860 IF LEN(N\$) >28 THEN P\$(X)
L	340 OPEN #1:FIL\$:: OPEN #2:		=SE6\$(N\$,1,28):: N\$=SE6\${N\$, }
100 ! **********************************	PRTR*,DISPLAY ,OUTPUT,VARIAB	600 !111111111111111111111	29, LEN(N\$) -28):: X=X+1 :: 60 ; TO 860 ELSE P\$(X)=N\$:: N\$=" ;
110 ! ## PROGRAM LISTER ##		610 !	* :: X=X+1 :: P\$(X)=* ;
120 ! ## FROM DISK FILE ##	350 DISPLAY AT(12,1)ERASE AL L:"Even Column Length or Rag ged": :"(E or R)? E"	620 SUB BASICLINE(N\$,E)	X+1
130 ! ** TO PRINTER IN **	360 ACCEPT AT (14, 11) BEEP SIZ	630 N\$="" :: IF NX\$="" THEN :: LINPUT #1:NX\$	870 SUBEND
140 ! ** HULTIPLE FORMATS **	E(-1)YALIDATE("ER"):E\$:: CA	640 NS=NS&NXS :: IF LEN(NS)(880 !
150 ! ## BASED ON AN IDEA ##	LL CLEAR	: 80 OR EOF(1) THEN NX\$="" :: E : : =EOF(1):: SUBEXIT ELSE LINPU	890 !***********
160 ! ## FROM TI-SHU6 ##	1 370 DISPLAY AT(12,1) ERASE AL 1 L: "Do you wish to include an	T #1:NX\$	900 !
170 ! ## USER'S GROUP IN ##	y comments at the start of the listing? (Y or N) N"	650 PX=PDS(NX\$, " ",1):: IF P	910 SUB PRINTPASE(P\$(),X,L)
180 ! ## AUSTRAILIA. ##	380 ACCEPT AT (14, 19) BEEP SIZ E(-1) VALIDATE ("YN"): A\$:: IF	660 P=POS(NX\$, * *,1):: IF PX	920 IF L=296 THEN 940
190 ! ## ENHANCED BY BOB ##	As="Y" THEN CALL COMMENT(PS (),X,L,ES)ELSE CALL CLEAR	CP THEN 640	930 FOR I=1 TO X :: PRINT #2 ::TAB(9):P\$(I):TAB(45):P\$(I+X
200 ! ## PASS MAY 08,1985 ##	390 !	670 NR=-1 :: FOR I=1 TO PX-1 :: C=ASC(SEG\$(NX\$,I,1)):: N):: NEXT I :: 60TO 1010
210 ! *****************	400 ! ## BEGIN FORMATTING ##	R=NR AND C>47 AND C<58 :: NE : XT I :: IF NOT(NR)THEN 640	1 940 PRINT #2:CHR\$(15);CHR\$(2 1 7);"O" :: REM ## Set for com
220 !			pressed printing ##
230 OPTION BASE 1 :: DIM P\$(1 410 ! 11 PROGRAM LISTING 11	1 680 IF SEG\$(N\$,LEN(N\$),1)=" 1 " THEN 640	950 PRINT #2:CHR\$(27);CHR\$(6
320)	420 ! ** INTO COLUMNS **	690 IF VAL(SEG\$(NX\$,1,PX-1))	1 8); CHR\$(6); CHR\$(8); CHR\$(37); 1 CHR\$(39); CHR\$(68); CHR\$(70); C
: 240 CALL CLEAR :: CALL SCREE : N(4):: FILS="DSK1.PR6M/LIST"	430 !	(VAL (SE6\$ (N\$, 1, P-1)) THEN 640	HR\$(99);CHR\$(101);CHR\$(0):: REM ## SETS HORIZ, TABS ##
: :: PRTR\$="PID" :: CALL NIPE : R(P\$()):: X=1 :: EFL=0	i 440 CALL PAGEBUILD(P\$(),EFL, i X,L)	700 NQ, I=0	960 PRINT \$2:TAB(8);RPT\$("-"
		710 I=P85(N\$, CHR\$(34), I+1):: IF I THEN NG=NG+1:: 50T0 7	,123):: F\$="
250 DISPLAY AT(2,7): "PROGRAM LISTER":	450 CALL ADJUST(L, X, E\$)	1 10 ELSE IF NB(>2#INT(NB/2)TH	
***	<pre>460 CALL CLEAR :: DISPLAY AT (3,1): "Assembling and out~pu</pre>	·	: 970 FOR I=1 TO X :: A\$=P\$(I) : :: B\$=P\$(I+X):: C\$=P\$(I+12#X
1 260 DISPLAY AT(6,1):"Program 1 is Listed to Disk as": :"Fi	tting": :"print lines to dev ice name:": : :PRTR\$:: CALL	720 SUBEND	:)):: D\$=P\$(I+(3\$X))&SE6\$(F\$, : LEN(P\$(I+(3\$X))).S)
lename: ";FIL\$: : Y or N? Y	PRINTPAGE(P\$(),X,L)	730 !	1
	470 X=1 :: CALL CLEAR :: IF	740 !**************	1 980 PRINT #2:CHR\$(9);"1";CHR 1 \$(9);A\$;CHR\$(9);"1";CHR\$(9);
: 270 ACCEPT AT(10,9)BEEP SIZE : (-1)VALIDATE("YN"):A\$:: IF	: EFL=0 THEN CALL WIPER(P\$()): :: 60TO 440	750 !	1 B\$;CHR\$(9);"!";CHR\$(9);C\$;CH 1 R\$(9);"!";CHR\$(9);D\$
: A\$="N" THEN CALL FIXNAME(FIL : \$):: 60TO 260	1 480 CLOSE #1 :: CLOSE #2 ::	760 SUB PAGEBUILD(P\$(),EFL,X	1 990 NEXT I :: REM \$\$ CHR\$(9)
;	: DISPLAY AT(3,1): "Another lis		tabs the printer to the nex
: 280 DISPLAY AT(14,1):"Correc : t Printer Device Name": :"is :: ";PRTR\$: :"Y or N? Y*	<pre>! ting? (Y or N) N* :: ACCEPT ! AT(3,27)BEEP SIZE(-1)VALIDAT ! E("YN"):A\$</pre>	770 FOR 1=X TO L	1000 PRINT #2:TAB(8);RPT\$("-
		780 IF EFL THEN SUBEXIT ELSE	1 123)
: 290 ACCEPT AT(18,9)BEEP SIZE : (-1)VALIDATE("YN"):A\$:: IF	470 IF ASETT THEN 240	CALL BASICLINE (NEW\$, EFL):: PRINT NEW\$:	1010 PRINT #2:CHR\$(18);CHR\$(
A\$="N" THEN CALL FIXNAME(PRT R\$):: GOTO 280			1 27);"2";CHR\$(27);CHR\$(68);CH 1 R\$(0);CHR\$(12):: REH ## Člea
300 DISPLAY AT(20,1): Normal	510 STOP	790 IF NEW\$="" THEN 780 ELSE CALL WRITECOL(P\$(),I,X,NEW\$):: I=X	r Tab Stops and Form Feed ##
or Condensed Format?": :"(N	520 :	AAA MPNT T	1020 SUBEND
or C) C*	<u> </u>	L DAA OUDENIS	1030 !
: 310 ACCEPT AT(22,10)BEEP SIZ : E(-1)VALIDATE("NC"):F\$:: IF	540 1## END OF MAIN PROM ##	BIO SUBEND	

1040 !*************	THE CHICKIN	Q* THEN P\$(X-1)=*		
1050 !	1150 SUBEND	270 : 60TD 1	1320 SUB ADJUST(L,X,E\$)	
1060 SUB WIPER(P\$())	1160 !	1240 DISPLAY AT(1,26)SIZE(3)	1330 IF L=296 THEN 1370	
	1170 : *****************	:STR\$(L-X+1)::	1340 IF INT(X/2)=X/2 THEN 13	
1070 FOR I=1 TO 320 :: P\$(I) : =" " :: NEXT I	1180 !	ALL ADJUST(L,X,E\$):: CALL PR	50 ELSE X=X+1	
1080 SUBEND	1190 SUB COMMENT(P\$(),X,L,E\$	ER(P\$()):: X=1':: 60TO 1240	: 1350 IF X>L OR E\$="E" THEN X : =X/2 ELSE X=55	
1090 !	}	1250 NEXT I	1360 SUBEXIT	
************	1200 CALL CLEAR :: DISPLAY A	1260 CALL HCHAR (4,1,32,640):		
1100 !****************	! T(1,1): "ENTER QQ TO QUIT. L : ! INES=";STR\$(L-X+1):""	6 60TO 1210	1370	
1110 !	44444444444444444	1270 CALL CLEAR	1380 IF X>L OR ES="E" THEN X	
1120 SUB FIXNAME (N\$)	1210 FOR I=5 TO 23		=X/4 ELSE X=74	
1130 CALL HCHAR(22,1,32,96)	1220 ACCEPT AT(1,1)BEEP SIZE		1390 SUBEND	
1140 DISPLAY AT (22.1): *CORRE	: (28)VALIDATE(UALPHA,NUMERIC, : ",;:!?()*&\$#@/='%^"):P\$(%)::	1 1290 !		
CT NAME SHOULD BE" :: A	; X=X+1	1300 !************		
CCEPT AT (24,1) BEEP: N\$:: CAL L HCHAR (22,1,32,96)	1230 IF SE6\$(P\$(X-1),1,2)="0	1310 !		

LIBRARY CORNER

Here are a few new listings in our library:

<u>6053 SLOTS</u> An old Las Vegas favorite brought to the computer. Much cheaper than the real thing, but still fun to win or lose. Console basic.

<u>UO21 AUTO CHARACTER DEFINITION</u> A handy little program for the definition of graphics characters. You design the character and the computer gives the graphics code. Could be modified to save the code. Console Basic or extended basic.

<u>UO19 DISK CATALOG</u> A utility program with a delete feature for editing disk files. Very handy. Requires disk and extended basic.

<u>6013 DUCK!</u> A game of devilish speed and quick wits. Challenging and exasperating, but lots of fun. Requires Extended Basic.

<u>GO38 LIFELINE TO TITAN</u> A landing game requiring skill and timing. Good graphics, speed, and challenge. Requires Extended Basic. .BP

THIS PROGRAM IS BY CHARLES STRINGER. THE COPY YOU AF LOOKING AT WAS PRODUCED BY BOB PASS' PROGRAM LISTER. THE CODE FOR IT IS ELSEWHE IN THE NEWSLETTER. HIS PROGRAM ALLOWS FOR TWO FORMATS (TWO AND FOUR COLL PLEASE LET US KNOW WHICH YOU LIKE BEST.	RE (ERE MN)
100 REM++++++++++++++++	++
110 REM+	+
120 REM+ 'SPRITE MASK'	+
130 REM+	+
140 REM+ C.S.STRINGER	+
150 REM+	+
160 REM+ DECATUR 99er	+
170 REM+	+
180 REM+ USERS' GROUP	+
190 REM+	+
200 REM+ 1 JUNE '85	+
210 REM+	+
220 REM++++++++++++++	+++
230 REM :THIS PROGRAM DE STRATES A WAY OF SEL IVELY MASKING SPRITE	ECT-
240 REM :IT WORKS ONLY F STATIONARY SPRITES. TH 'CALL SPRITE' STATEMENT NOT CONTAIN OPERANDS FO ROW AND COLUMN VELOCITI	IE MUST IR
250 REM: THOSE OFERAND FIELDS MUST BE BLANK; Z VALUES ARE NOT PERMITTE	ERO
260 REM: NEITHER CAN THE PROGRAM CONTAIN A 'CALL	

MOTION' STATEMENT.

270 REM: THE METHOD IS BASED ON THE OBSERVATION THAT A

SPRITE CAN BE REMOVED FROM THE SCREEN BY MOVING IT TO 280 REM: A DOT-ROW OF NUMBER GREATER THAN 192 BY USE OF THE 'CALL LOCATE' INSTRUCT 290 REM: ION; IF THE CHOSEN ROW IS #210, THE SPRITE THAT IS MOVED AND EVERY HIGHER-NUMBERED SPRITE BECOMES INVISIBLE. 300 REM: WHEN THE SPRITE ON DOT-ROW 210 MOVES TO SOME OTHER ROW, THE HIGHER-NUMBE RED SPRITES REAPPEAR.

320 REM: THE ONLY DOCUMENT-ATION KNOWN TO THE WRITER IS THE PARAGRAPH ON SPRITES ON PAGE 1 OF THE ADDENDUM TO 330 REM: THE "USER'S REFEREN CE GUIDE"; THE 'MAGIC NUMBER ' IS THERE GIVEN AS '208'.

340 REM: YOU MAY NEED TO EXP ERIMENT WITH THE VALUE ASSIG NED TO VARIABLE 'K'. FOR MY MACHINE, '208' DOES'NT WORK,

370 K=210 :: CALL CLEAR

380 FOR I=1 TO 26 :: CALL SP

RITE(#I,64+I,7,I*7,I*8+16)::

NEXT I !DEFINES A DIAGONAL

LINE OF 26 SPRITES AS THE

LETTERS OF THE ALPHABET

400 DISPLAY AT(22,1): "HIT AN Y LETTER," :: DISPLAY AT(23, 1): "THEN PRESS 'ENTER'." !!!

BUT '210' DOES.

350 REM

360 REM

390 REM

CODE.

310 REM

1 D4

USWXY

(C.)

410 REM	580 CALL LOCATE(#J,HOMEROW,HOMECOL)! TAKES SPRITE 'J'		
420 ACCEPT AT(24,1)SIZE(1)VA LIDATE("ABCDEFGHIJKLMNOPGRST UVWXYZ")BEEP:A\$:: DISPLAY A	BACK HOME. 590 REM		
T(24,1):A\$!!!ACCEPTS AND DI SPLAYS THE LETTER-CODE.	600 CALL SHOW(J, DUMMYROW, DUM MYCOL)!DISPLAYS THE RESTORED SPRITE-LINE.		
440 J=ASC(A\$)-64 !DECODES TO OBTAIN SPRITE NUMBER.	610 REM		
450 REM	620 GOTO 420 ! GOES BACK TO GET ANOTHER CODE.		
460 CALL SHOW(J, HOMEROW, HOME	630 STOP		
COL)!DISPLAYS THE LETTER COD E FOR THE CHOSEN SPRITE AND	640 REM		
ITS DOT-ROW ADDRESS ON THE SCREEN. GIVES CODE AND	650 SUB SHOW(SPRITENUM,R,C)		
470 REM: ADDRESS OF THE SPRI	660 REM		
TE OF NEXT-HIGHER NUMBER.	670 CALL POSITION (#SPRITENUM		
480 REM	,R,C)!GETS DOT-ROW ADDRESS OF SPRITE 'J'		
490 CALL LOCATE(#J,210,HOMEC OL)!MOVES SPRITE TO DOT-ROW 210.	680 CALL POSITION (#SPRITENUM +1,R1,C1)!AND OF ITS NEI-		
500 REM	GHBOR.		
510 CALL SHOW(J, DUMMYROW, DUM	690 REM		
MYCOL)!DISPLAYS THE PARTIALL Y-MASKED SPRITE LINE, DEMONS TRATES THAT SPRITE 'J' IS	700 DISPLAY AT(24,3): "AT ";R ;"; ";CHR\$(64+(SPRITENUM+1));" AT ";R1 !DISPLAYS THE CO DES AND ADDRESSES.		
520 REM: ON LINE 210, AND THAT ITS RIGHT-HAND NEIGHBOR	710 REM		
IS STILL AT HOME, THOUGH	720 FOR DELAY=1 TO 500		
INVISIBLE.			
530 REM	730 NEXT DELAY		
540 CALL LOCATE(#J,RND*255+1,HOMECOL)! MOVES SPRITE 'J' TO A RANDOMLY CHOSEN DOTROW.	740 DISPLAY AT(24,3):"		
550 REM	750 FOR DELAY=1 TO 50 :: NEX T DELAY		
560 CALL SHOW(J,DUMMYROW,DUM	760 SUBEND		
MYCOL)!DISPLAYS THE RESTORED SPRITES.	770 END		
570 REM			

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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 \$15.80 postpaid!

Nuts & Bolts 15 a (that's diskfull of 100 right, 100!) XBasic utility subprograms in MERSE 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 XBasic at only \$3.00 each!(plus \$1.50 per order for casette, packing and postage, or \$3.00 for diskette, PPN) I will send you by descriptive catalog for a dollar, which you can then deduct from your first order.

Several different routines have been published which will extract and save a specified series of lines out of a program, but this one by George Steffen of the L.A. 99ers is certainly the

1 :SUBROUTINE EXTRACTOR by 6
eorge F. Steffen. SAVE in ME
RGE format. MERGE into any p
rogram (with line # starting
above B). RUN to extract
Ave. 2 :selected lines. Deletes i
tself. Then BE SURE to SAVE
the selected lines in MERGE
format because the remaining
lines are still in memory!
3 CALL CLEAR :: CALL INIT ::
1NPUT "Line numbers of rout
hay be ine to be saved: First, Last?
":L,M :: 6=256 :: CAL

L PEEK(-31952,H,I,J,K)
4 C=INT(M/6):: D=M-C&6 :: F=
(J-6)&6+K :: FOR E=(H-6)&6+1
TO F STEP 4 :: CALL PEEK(E,A,B):: IF A=C AND B=D THEN 6
5 NEXT E :: PRINT : "LINE";M;
"NOT FOUND!" :: STOP !@P-6 H=INT(E/6):: I=E-(6&H):: H
=H+6 :: C=INT(L/6):: D=L-C&6
:: FOR E=E+4 TO F STEP 4 ::
CALL PEEK(E,A,B):: IF A=C A
ND B=D THEN 8 !@P7 NEXT E :: PRINT : "LINE";L;

7 NEXT E :: PRINT : "LINE";L;
"not found!" :: STOP !@P8 E=E+3 :: J=INT(E/6):: K=E(6tJ):: J=J+6 :: CALL LOAD(31952,H,1,J,K):: STOP !@P-

The enhancements to my Menu Loader, published in Tips #22, contained an error. Please change line #13 to read - #13 LIMPUT #2:W\$:: PRINT W\$:: IF EDF(2)THEN #16

Some folks were interested in the idea of a program that writes a program, so let's write a program that will write a program to list the token codes that you need to use to write a program that will write a program -

100 OPEN #1: DSK1.TOKENLIST*
,OUTPUT,DISPLAY ,VARIABLE 16
3 :: FOR N=129 TO 254 :: L1=
INT(N/256):: L2=N-256#L1
110 PRINT #1:CHR*(L1) &CHR*(L
2) &CHR*(131) &CHR*(N) &CHR*(0)
:: NEXT N
120 PRINT #1:CHR*(255) &CHR*(

Key that in and SAVE it just in case, then RUN-it. When READY, type NEW, then MERGE DSK1.TOKEMLISTS Now LIST it and you will see a list of ASCII codes 129 through 254 and their token Delete lines 171 meanings. through 175, 185, 198, 226 231, and 242. through Change the definition of 199 to QUOTED STRING, of 200 to UNDUDTED STRING, and 201 to LINE NUMBER, and add line 255 END OF FILE.

You don't need all those exclamation points, so change the program? to a DIS/VAR 80 file by LIST *DSK1.TOKENLIST*. Then key in this little routine.

106 OPEN #1: "DSK1.TOKENLIST"
:: OPEN #2: "PIO"
119 LIMPUT #1:A\$:: PRINT #2
:SE6\$ (A\$, 1, 4) & SE6\$ (A\$, 6, LEN{
A\$)):: IF EDF(1)<>1 THEN 116
120 CLOSE #1 :: CLOSE #2 ::
END

RUN it, and print out a list of all the token codes. More on this next month - if someone buys a few programs so that I can afford another month.

Now that we've done about all that we can with the Henu Loader, here is another version to use on your finalized library disks of programs. It lacks the features that you will no longer need, but will list your programs by their full names, up to 24 characters long.

/M. Gordon/T. Boisseau/J. Pe terson/etc. 110 CALL CLEAR :: CALL SCREE N(5):: FOR S=1 TO 14 :: CALL COLOR(S,7,16):: NEXT S :: C ALL VCHAR(1,31,1,96):: CALL COLOR(0,2,16) 120 OPTION BASE I :: DIM P64 (99), M8(99)

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the programs on the disk in the DATA statements, in the sequence in which they are listed by an ordinary disk cataloger program 148 !Then SAVE this program under the filename LOAD 150 DATA 168 DATA 178 DATA 180 DATA 198 DATA END 200 FOR J=1 TO 99 :: READ M\$ (J):: Ms(J)=SEG\$(Ms(J),1,24) 218 IF Hs(J)="END" THEN Hs(J)=" ":: 60TO 230 220 NEXT J 238 IMAGE ## 248 DISPLAY AT(1,4): "TIGERCU B NAMELOADER" 258 D*="DSK1." :: OPEN #1:D\$, INPUT , RELATIVE, INTERNAL :: INPUT #1:P\$ 260 FOR X=1 TO 99 :: IF X/20 <>INT(X/20)THEN 290 27# DISPLAY AT(24,1):"Type # of chaice or Enter 0" :: AC CEPT AT (24, 27) VALIDATE (D1617)SIZE(-3):K :: IF K=0 THEN 2 88 :: IF K>8 AND K<NN+1 THEN 390 ELSE 270 288 X=1 298 I=I+1 :: IF 1>127 THEN K *1 :: 60TD 370 386 INPUT #1:P\$:: NN=NN+1 318 IF LEN(PS) = 8 THEN 358 320 DISPLAY AT (X+3,2):USING 238:NN :: DISPLAY AT(X+3,5): MS (NN):: PGS (NN)=P\$ 330 CALL KEY(0, KK, ST):: IF S T=0 THEN 340 :: FLAG=1 :: 60 TO 350 340 NEXT X 358 DISPLAY AT(X+4,1): " " :: DISPLAY AT (X+5,2):USING 238 :NN+1 :: DISPLAY AT(X+5.6):" Terminate* 368 DISPLAY AT (X+6,1):* hoice?" :: ACCEPT AT(X+6,16) SIZE(2) VALIDATE(DIGIT):K :: IF K(>NN AND K(>NN+1 THEN 38 378 IF K=NN+1 THEN CALL CLEA R :: CLOSE #1 :: END 380 !IF K(1 OR K)99 OR LEM(P 6\$(K))=0 THEN 350 390 CLOSE #1 400 CALL INIT :: CALL PEEK (-31952, A. B):: CALL PEEK (A1256

13# ! List the full names of

+8-65534,A,B):: C=A8256+B-65
534 :: A8=D8EP68(K):: CALL L
OAD(C,LEN(A8))
410 FOR I=1 TO LEN(A8):: CAL
L LOAD(C+I,ASC(SEG*(A8,I,1))
):: NEXT I :: CALL LOAD(C+I,
9)
426 CALL VCHAR(1,3,32,672)::
CALL SCREEN(B):: FOR S=0 TO
14 :: CALL COLOR(S,2,1):: N
EXT S :: DISPLAY AT(12,2): "L
OADING ";H\$(K)
430 RUN "DSK1.1234567890"

Last month I forgot to have anything for the kids, or anything in Basic, so -

100 CALL CLEAR 110 REM by Jim Peterson of Tigercub Software 120 PRINT TAB(1); *****AUTONA TIC MOUSE MAZEARATE: : : : " Choose your mouse and": "wa tch it try to find its way* 130 PRINT "through the maze. ":: " When one of the mice has": "taken 50 extra steps, the": "cat gets it!" 148 PRINT: : "Touch any key" 150 CALL KEY(0,K,ST) 168 IF ST(1 THEN 158 170 CALL CLEAR 180 CALL CHAR(120, "DO7BFEFFF E78*) 196 CALL CHAR(121, "1038387C7 C7C7C38*) 200 CALL CHAR(122, *387C7C7C7 C383810") 210 CALL CHAR(123, "001E7FFF7 FIE") 220 CALL CHAR (128, "001E61816 230 CALL CHAR(129, *384444444 4242410") 240 CALL CHAR(130,*102828444 4444438") 25# CALL CHAR(131, ###7886818 678°) 260 CALL SCREEN(5) 270 11=610 280 12=610 298 CALL CHAR(136, "FFFFFFFFF FFFFFF*) 300 CALL COLOR(14,16,16) 310 CALL COLOR(13,2,16)

320 CALL COLOR(12,2,16)

338 R=16

340 GOSUB 1468

359 R1=19 360 C=2 . . . 37# C1=2 380 CALL HOHAR (R, C, 134, 2) 390 C=C+1 A 400 M=120 👢 410 M2=128 428 RANDONIZE 439 A=(INT(2#RND)+1)#2 448 B=INT(188RND)+1 450 ON B GOSUB 470,478,479,4 70,510,510,550,550,590,590 460 50TO 420 ... 470 IF C+A>30 THEN 630 480 CALL HCHAR (R, C, 136, A) 498 C=C+A 500 RETURN 518 IF R+A>28 THEN 548 520 CALL VCHAR(R,C,136,A) 530 R=R+A 548 RETURN 550 IF R-A<2 THEN 580 560 CALL VCHAR(R-A+1,C,136,A) 570 R=R-A 580 RETURN 598 IF C-A(3 THEN 628 600 CALL HCHAR(R,C-A+1,136,A) 610 C=C-A 628 RETURN 630 CALL HCHAR(R,C,136) 640 C=C+1 650 IF C<31 THEN 630 660 R2=R 670 C2=C 680 CALL HCHAR(R1,C1,H) 690 CALL HCHAR(R2,C2,H2) 788 Y=Y+1+(Y=2)#2 710 IF Y=2 THEN 1020 720 CALL HCHAR(R1,C1,136) 730 ON M-119 GOTO 800,900,74 0,850 748 IF C1=31 THEN 958 750 CALL GCHAR(R1,C1+1.6) 760 IF 6=32 THEN 850 778 C1=C1+1 788 M=128 798 60TO 958 800 CALL GCHAR(R1-1,C1,6) 810 IF 6=32 THEN 740 828 R1=R1-1 830 H=121 840 GOTO 950 850 CALL 6CHAR(R1+1,C1,6) 868 IF 6=32 THEN 988 870 R1=R1+1 888 H=122 890 60TO 950

900 CALL 6CHAR(R1,C1-1,6)

910 1F 6=32 THEN 800 920 C1=C1-1 93# M=123 940 60TO 950 950 CALL HCHAR (R1, C1, M) 968 IF (C1=31) #(C2=2) THEN 13 978 IF C1<31 THEN 788 980 T2=T2-10 990 CALL SOUND (50, T2, 5) 1000 IF T2=110 THEN 1340 1010 GOTO 700 1020 CALL HCHAR (R2, C2, 136) 1838 ON N2-127 GOTO 1848,128 0, 1090, 1150 1040 CALL GCHAR (R2+1,C2,6) 1050 IF 6=32 THEN 1090 1868 R2=R2+1 1878 H2=129 1080 6010 1250 1090 IF C2=2 THEN 1250 1100 CALL 6CHAR(R2, C2-1, 6) 1110 IF 6=32 THEN 1150 1128 C2=C2-1 1130 H2=128 1140 60TO 1250 1158 CALL GCHAR (R2-1,C2,6) 1166 IF 6=32 THEN 1286 1170 R2=R2-1 1186 M2=136 1190 GOTO 1250 1200 CALL GCHAR (R2, C2+1, 6) 1210 IF 6=32 THEN 1040 1220 C2=C2+1 1230 H2=131 1240 GOTO 1250 1250 CALL HCHAR(R2,C2,H2) 1260 IF (C2=2) # (C1=31) THEN 1 320 1278 IF C2>2 THEN 788 1280 T1=T1-18 1298 CALL SOUND (58, T1, 5) 1300 IF T1=110 THEN 1370 1318 GOTO 788 1320 CALL HCHAR(1,1,32,768) 1338 60T0 338 1340 GOSUB 1460 1350 PRINT "THE CAT GOT THE WHITE MOUSE": : 1368 GOTO 1398 1378 GOSUB 1468 1380 PRINT "THE CAT GOT THE BLACK MOUSE": : 1390 PRINT "TO PLAY AGAIN, T **OUCH ANY KEY*** 1400 CALL KEY(8,K,ST) 1418 IF ST(1 THEN 1488 1420 T1=610 1430 T2=610 1448 CALL HCHAR(1,1,32,768)

1450 60T0 330 1460 CALL HCHAR(23,1,32,32) 1470 PRINT CHR\$(120); (410-T1) 1/10; TAB(20); CHR\$(128); (610-T2)/10 1480 RETURN

Did you know that ACCEPT AT(1,8) will accept a full line of 28 characters? Did you know that ACCEPT AT(R,8)SIZE(-28) and Enter will accept everything on row R? And did you know that ACCEPT NS will accept a string of 255 characters?

Need a filler, so 🕏

100 !MUSICAL BARGRAPH by Jim Peterson 110 CALL CLEAR :: CALL SCREE N(5):: FOR J=2 TO 14 :: X=J-(J)4):: CALL COLDR(J,X,X):: 120 DIM N\$(13),N(13):: H\$="(36):: FOR J=1 TO 13 :: N\$(J) =SE6\$(M\$,J,1):: DISPLAY AT(J +6,1)SIZE(1):N\$(J):: NEXT J 130 X=110 :: FOR J=1 TO 13 : : N(J)=X11.059463094^(J-1):: NEXT J 148 A=INT(13\$RND+1):: B=INT(25#RND+1):: DISPLAY AT(A+6, 2)SIZE(28):RPT\$(N\$(A),B):: CA LL SOUND (B#40, N(A), 0, N(A)#2+ 4, B, N(A) \$4+6, B) 158 DISPLAY AT(A+6,2): " :: 60TO 140

MEMORY FULL

Jim Peterson

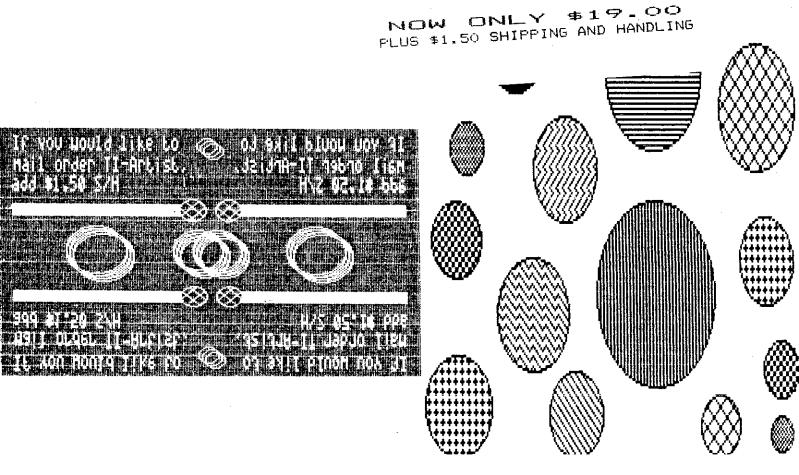


Ti-Artist is a very advanced graphics design program written in assembly language. The program can make circles, spheres (solid circles), boxes, frames (empty boxes), rays, linking rays, free hand drawing, and more. It features a wide variety of brush strokes and a full choice of colors. The program can paint (fill) with solid colors or with a variety of interesting patterns. TI-Artist can even zoom in on a particular area and magnify it for easy detailed work. It also features an advanced four way mirroring routine demonstrated on the left. The program can print characters in 81 different sizes, and can dump it's pictures to Okidata, Epson (and compatibles), and printers 10 different densities and magnifications. II-Artist can save your works to disk, and can even load files created by other program such as Draw N Plot!

TI-Artist requires 48K, disk, and one of the following: Extended Basic, Editor/Assembler, Mini Memory, TI-Writer, or the CorCoap disk controller.

To order from Ramsoft, send \$30.00 plus \$1.50 shipping and handling to Ramsoft at:

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Fullerton, California 92631
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TC-MAIL

A \$9.95 TI-FORTH MAILING LIST PROGRAM!

TC-MAIL is a TI-FORTH based mail list program written by long time 99'er Thi Chau. TC-MAIL is TI-FORTH fast and reasonably priced. It has many advantages over extended basic mail list programs because it uses the many advantages of the TI-FORTH system.

TC-MAIL uses a 40 column display, has a full screen data editor, and sorts by any field. It will print 1, 2, or 3 across labels, mail lists, or phone lists. The whole program resides in memory so the single disk user will not get tennis elbow. TC-MAIL can initialize data disks directly from the program, do multiple sorts, and is binary saved for fast loading. The program will set colors for a monochrome or color monitor (television). YOU DO NOT NEED TO KNOW A THING ABOUT TI-FORTH TO USE TC-MAIL!

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SERII	ES .	A
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SERIES B

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- 2 COLUMN PHONE LIST -	- 1 COLUMN PHONE LIST -
- 12 CHARACTER LAST NAME -	- 18 CHARACTER LAST NAME -
- 12 CHARACTER FIRST NAME +	- 24 CHARACTER FIRST NAME -
710 RECORDS PER DATA DISK -	- 622 RECORDS PER DATA DISK -

TC-MAIL is available for only \$9.95 plus shipping and handling. The program is being marketed at this price to try to reduce unauthorized copying, thereby benefitting everyone involved (consumers - good product at good price; retailer - less copying equals more sales; author - less pirating means more returns for programming effort).

TC-MAIL requires the Editor/Assembler, 48K, one disk drive, and a printer (optional, but recommended). TC-MAIL is available from Ramsoft direct, or may be available from your local dealer. To obtain your copy from Ramsoft direct, send \$9.95 plus \$1.50 (per copy) shipping and handling to:

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*

#

KIDS #, Do you want your children to learn to play the piano, but can't afford one right one now? Here is an inexpensive substitute: the TI-99/4A piano.

You play only the bottom three rows, essentially all of the letter keys. You can play them with the shift key up or down. In one case you play whole notes, in the other one you play half notes, which repeat when you hold down the key.

The very bottom row plays noise tones when the shift key is locked down, very amusing to little children.

To keep the program simple, the screen is left blank. But that does not impede all you budding programmers to create some nice graphics to enliven this music program, and make it even more attractive to children.

This program was published in Nittinian, the Swedish newsletter for 99-ers, by an unknown author. The translation was done by Maurice E.T. Swinnen of the Washington DC Area 99-er Computer Club.

```
50 REM PIANO, NITTINIAN 84-2
                                              340 CALL SOUND(-120,-5,0):: GOTO 100
100 CALL KEY(0,K,S):: IF S=0 THEN 100
                                              350 CALL SOUND(-120,370,0):: GOTO 100
110 IF K=45 THEN 100
                                              360 CALL SOUND(-120,415,0):: GOTO 100
120 IF K<44 THEN 100 ELSE IF K>46 AND K<
                                              370 CALL SOUND(-120,177,0):: GOTO 100
58 THEN 100 ELSE IF K>60 AND K<65 THEN 1
                                              380 CALL SOUND(-120,185,0):: GOTO 100
00
                                              390 CALL SOUND(-120,554,0):: GOTO 100
130 IF K>90 AND K<96 THEN 100 ELSE IF K>
                                              400 CALL SOUND(-120,208,0):: GOTO 100
96 THEN 200 ICHECK IF LOWER OR UPPER CAS
                                              410 CALL SOUND(-120,277,0):: GOTO 100
E LETTER HAS BEEN PRESSED
                                              420 CALL SOUND(-120,-7,8):: GOTO 100
140 IF K=44 THEN CALL SOUND(-100,1568,0)
                                              430 CALL SOUND(-/120,139,0):: GOTO 100
:: GOTO 100
                                              440 CALL SOUND(-120,-2,0):: GOTO 100 3
150 IF K=46 THEN CALL SOUND(-100,1760,0)
                                              450 CALL SOUND(-120,233,0):: GOTO 100
 :: GOTO 100
                                              489 CALL SOUND(-120,-3,0):: GOTO 100
160 IF K=59 THEN CALL SOUND(-100,698,0):
                                              485 REM LOWER CASE LETTERS⊐WHOLE TONES
 : GOTO 100
                                              470 CALL SOUND(-100,294,0):: GOTO 100
170 IF K=58 THEN CALL SOUND(-100,1661,0)
                                              480 CALL SOUND(-100,1175,0):: GOTO 100
 :: GOTO 100
                                              490 CALL SOUND(-100,988,0):: GOTO 100
 180 IF K=60 THEN CALL SOUND(-120,-8,0)::
                                              500 CALL SOUND(-100,349,0): GOTO 100
 GOTO 100
                                              510 CALL SOUND(-100,131,0):: GOTO 100
 185 REM UPPER CASE LETTERS ASCII=65->90
                                              520 CALL SOUND(-100,392,0):: GOTO 100
 190 ON K-64 GOTO 210,220,230,240,250,260
                                              530 CALL SOUND(-100,440,0):: GOTO 100
.,270,280,290,300,310,320,330,340,350,360
                                              540 CALL SOUND(-100,494,0):: GOTO 100
 ,370,380,390,400,410,420,430,440,450,460
                                              550 CALL SOUND(-100,220,0):: GOTO 100
195 REM LOWER CASE LETTERS ASCII=97->122
                                              560 CALL SOUND(-100,523,0):: GOTO 100
200 ON K-96 GOTO 470,480,490,500,510,520
                                              570 CALL SOUND(-190,587,0):: GOTO 100
,530,540,550,560,570,580,590,600,610,620
                                              580 CALL SOUND(-100,659,0):: GOTO 100
,630,640,650,660,670,680,690,700,710,720
                                              590 CALL SOUND(-100,1397,0):: GOTO 100
205 REM UPPER CASE LETTERS=HALF TONES+NO
                                              600 CALL SOUND(-100,1319,0):: GOTO 100
 ISE
                                              610 CALL SOUND(-100,247,0):: GOTO 100
210 CALL SOUND(-120,466,0):: GOTO 100
                                              620 CALL SOUND(-100,262,0):: GOTO 100
220 CALL SOUND(-120,-6,0):: GOTO 100
                                              630 CALL SOUND(-100,110,0):: GOTO 100
230 CALL SOUND(-120,-1,0):: GOTO 100
                                              640 CALL SOUND(-100,147,0):: GOTO 100
240 CALL SOUND(-120,622,0):: GOTO 100
                                              650 CALL SOUND(-100,330,0):: GOTO 100
250 CALL SOUND(-120,158,0):: GOTO 100
                                              680 CALL SOUND(-100,165,0):: GOTO 100
260 CALL SOUND(-120,740,0):: GOTO 100
                                              870 CALL SOUND(-100,196,0):: GOTO 100
270 CALL SOUND(-120,831,0):: GOTO 100
                                              680 CALL SOUND(-100,1047,0):: GOTO 100
200 CALL SOUND(-120,932,0):: GOTO 100
                                              690 CALL SOUND(-100,123,0):: GOTO 100
250 CALL SOUND(-120,311,0):: GOTO 100
                                              700 CALL SOUND(-100,880,0):: GOTO 100
300 CALL SOUND(-120,1109,0):: GOTO 100
                                              710 CALL SOUND(-100,175,0):: GOTO 100
310 CALL SOUND(-120,1245,0):: GOTO 108
                                              728 CALL SOUND(-100,784,0): GOTO 100
320 CALL SOUND(-120,1480,0):: GOTO 100
330 CALL SOUND(-128,-4,0):: GOTO 100
```

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