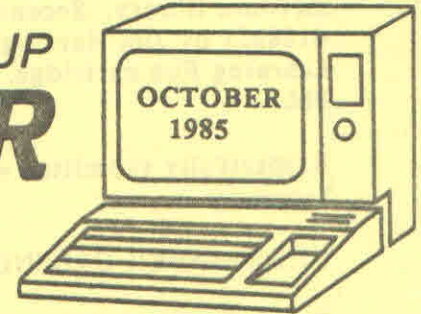


## CEDAR VALLEY 99'ER USER GROUP

# NEWSLETTER



### NEWSLETTER TOPICS

1. Next Meeting Reminder
2. Minutes From October Meeting
3. Reminder Calendar
4. For Sale/Wanted
5. Software Committee
6. Recover Cassette Files
7. Freeware
8. Officers/Chairpersons
9. Tigercub Tips
10. Survey Time

Printed circuit board layout on hold due to illness of person doing the layout, we are seeking someone that can do layout work for completion of this project. **Magazines:** almost sold out of all back copies; only two were left. **Classes:** Forth class is imminent, we need names and commitments for Jim Trainor. A show of hands resulted in 8 people interested. We always need articles for the newsletter; a review of new software, any programming hints, or any short subject on the TI will be welcome. Contact Dan Davis. Tee shirts are on order from the Milwaukee UG.

**New Business:** Next month is membership renewal: November 11. A swap meet will be held, and renewal and new members are requested to fill out an application and questionnaire. A new Triton catalog should have been received by all members; if you haven't received one, contact Jim Green for their toll free phone number. An update to the software library listing will be available next month. It was mentioned that the early Speech Synthesizer can use the same plug-in cartridges as the Speak and Spell units. An IBM parallel thermal printer is available at Emerson salvage on SW side for \$96. Discussed dues; there was no real need to adjust them at this time, so they stay the same: \$8 per year per family. The Australian Graphix package is available at M & T Software in Michigan. If 5 or more are ordered at a time, there is a price break. Contact Ed Hayek if interested.

The evening's program consisted of 3 word processors: Navarone's Homework Helper presented by Dave Dalton, 99 Writer II by Jerry Canady, and Typewriter by Jim Green. The

### \*\*\*\*NEXT MEETING REMINDER\*\*\*\*

The November meeting will be Monday, Nov. 11, 7:00 P.M. at the JA building, 330 Collins Road N. E. The November meeting highlights our second annual SWAP MEET. Be sure to bring anything you no longer use and some small change to buy the things you have been wanting!

### \*\*\*\*MINUTES FROM OCTOBER MEETING\*\*\*\*

The October meeting was called to order at 7:04 PM by President Jim Green. There were 30 people in attendance. The minutes of last month's meeting were approved. The Treasurer's report was read and approved.

**Old Business:** The Freeware listing that was mentioned in last month's newsletter was accidentally omitted; copies were handed out, and this list will also be included in next month's newsletter. **Memory expansion:**



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TIGERCUB SOFTWARE  
156 Collingwood Ave.  
Columbus, OH 43213

Distributed by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. May 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 is a diskfull 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 XBasic at only \$3.00 each! (plus \$1.50 per order for cassette, 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 my descriptive catalog for a dollar, which you can then deduct from your first order.

I thought that my 28-Column Converter, as published in Tips #18, was

finally foolproof, but someone found a way to print a program incorrectly with it!

I'm sure you know that characters 127-143, and on up to 159 in Basic, can be redefined and used in graphics. You probably also know that these redefined characters can be put into PRINT or DISPLAY AT statements, by holding down the CTRL key as you type them. If you load a program containing such redefined characters and LIST it, they will appear as blanks. If you RUN the program, so that they are redefined by the CALL CHAR statements, and then LIST it again, they will show up in their redefined form - but if you print out the program on your printer, they will still appear as blanks. So, before you publish a program, it's a good idea to RUN it and LIST it, and look for any of those gremlins.

If you do want to publish such a program, this fix will take care of it by underlining all characters that must be typed with CTRL down (except that lower case v is typed with FCTN down). It's slow, so only use it when you need to.

```
190 IF W$="E" THEN 195 :: PR
INT #2: ".TL 126:94;" :: PRIN
T #2: ".TL 123:64;" :: PRINT
#2: ".TL 125:38;" :: PRINT #2
: ".TL 124:42;" :: PRINT #2:
.TL 92:46;" :: PRINT #2: ".NF
"
```

```
195 PRINT "Does the program
contain": "redefined characte
rs above": "ASCII 126? (Y/N)"
196 ACCEPT AT(24,1)VALIDATE(
"YN"):QQ$
282 IF QQ$="N" THEN 290
283 FOR J=1 TO LEN(L$)
284 A=ASC(SEG$(L$,J,1)): IF
A<127 THEN L2$=L2$&CHR$(A):
: GOTO 288
285 IF A=127 THEN A=118 ELSE
IF A=128 THEN A=44 ELSE IF
```

```
A=155 THEN A=46 ELSE IF A=15
6 THEN A=59 ELSE IF A=157 TH
EN A=61 ELSE IF A=158 THEN A
=56 ELSE IF A=159 THEN A=57
ELSE A=A-64
286 L2$=L2$&CHR$(27)&CHR$(45
)&CHR$(1)&CHR$(A)&CHR$(27)&C
HR$(45)&CHR$(0)
288 NEXT J :: L$=L2$ :: L2$=
""
```

That should do it, unless the number of added control characters stretches the line beyond 80 characters. Such is the case with the following, which I had to type in manually (it also contains low ASCII characters which the printer misinterprets as controls).

## TIGERCUB CHALLENGE

```
100!The Unprintable Unkeyabl
e Program!
110!To shuffle the numbers 1
to 255 into a random sequen
ce without duplication
120!The strings contain the
ASCII characters 1 to 127 an
d 128 to 255
130!Most of the ASCII charac
ters below 32 or above 159 c
annot be input from the keyb
oard
140!So how was this program
programmed?
150 M$=""
```

```
!""@%22'::)+,.-/0
123456789:;<=>?@ABCDEFGHIJKL
MNOPQRSTUVWXYZ[\]^_`abcd-efgh
ijklmnopqrstuvwxyz{|}"
160 M2$=""

170 M$=M$&M2$
180 L=LEN(M$):: RANDOMIZE ::
X=INT(L*RND+1):: N=ASC(SEG$(
M$,X,1)): M$=SEG$(M$,1,X-1
)&SEG$(M$,X+1,LEN(M$))
190 PRINT N: IF LEN(M$)=0
THEN STOP ELSE 130
```

## GROCERY SHOPPING LIST

Are you desperate for some way to convince your wife that your computer and PEB and printer and all are not just a too-expensive plaything? Maybe this will do the job.

The first thing to do is to prepare a file of the grocery items she might want to buy. It will be especially useful if you can list the items in the sequence in which she will come to them in the aisles of her favorite store. This little program will set up the file. Type END when you are finished.

```
100 OPEN #1:"DSK1.BUYLIST",O
UTPUT
110 INPUT A$
120 IF A$="END" THEN 150
130 PRINT #1:A$
140 GOTO 110
150 CLOSE #1
```

If you have TI-Writer, you can also use that to create the file, edit it and add to it - but BE SURE to delete all the carriage return symbols and any blank lines at the end. Save it under the filename BUYLIST.

Next, this program will hopefully get your wife to actually sit down at the keyboard and try out your computer. It will go through the list and ask if she wants to buy. If she types in any quantity other than 0, it will output the item name and quantity to the printer. At the end, she will be given the opportunity to add any other items.

```
100 CALL CLEAR
110 OPEN #1:"DSK1.BUYLIST",I
NPUT
120 OPEN #2:"PI0"
130 LINPUT #1:A$
140 IF EOF(1)THEN 210
```



Because I needed a way to process my computer tapes, I have investigated the way the TI 99/4A records programs on tape.

All logic in the computer is ones or zeroes; electronically this will be a square wave. The ones will be the flat tops of the waveform while the zeroes are the bottoms. Because cassette recorders do not record square waves well, the waves are differentiated into spikes for recording. On playback, the spikes will be rounded and distorted somewhat but they are good enough for the computer to process into square waves again.

If a tape has a drop out, one or more of the spikes will be reduced to a level too low for the computer to recover. I reclaim these by amplifying the level of all the spikes to about ten times their original value and then clamping them to the correct level and finally respiking them.

The circuit in Figure 1 shows the differentiating network the computer uses to spike the waveform for the record mode. If you have the computer schematic, this network is on page 22 and is between U300 - 28 and J400-5. The output waveform shown is for the tone at the beginning of the recording.

The circuit in Figure 2 shows the one I built to reprocess drop outs. The levels and time durations are critical. I used twenty percent resistors but had to hand pick them somewhat. The rise time of the spikes seems to be the least critical value. John Johnson (319)  
366-4541

FIGURE #1

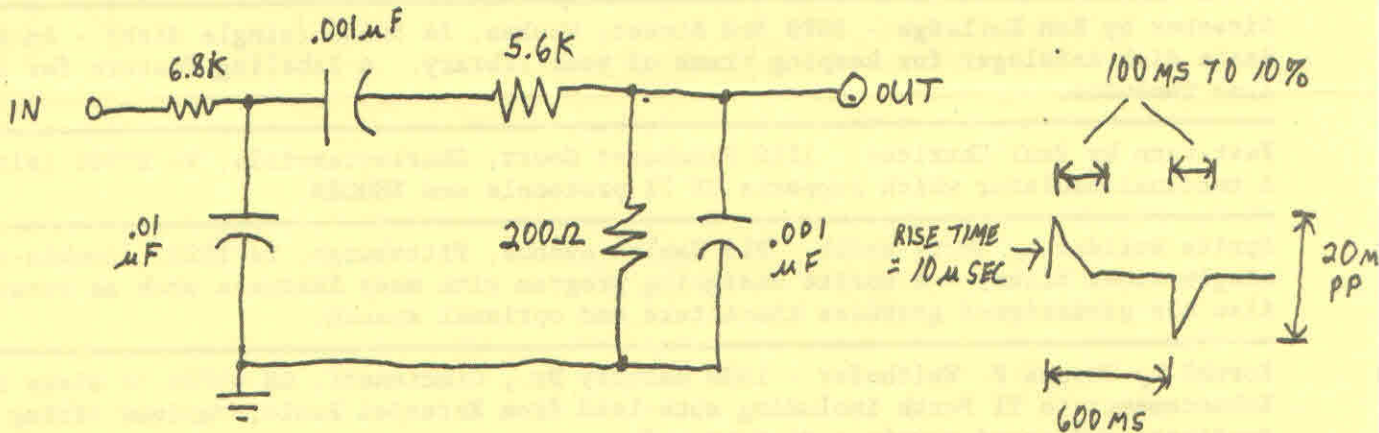
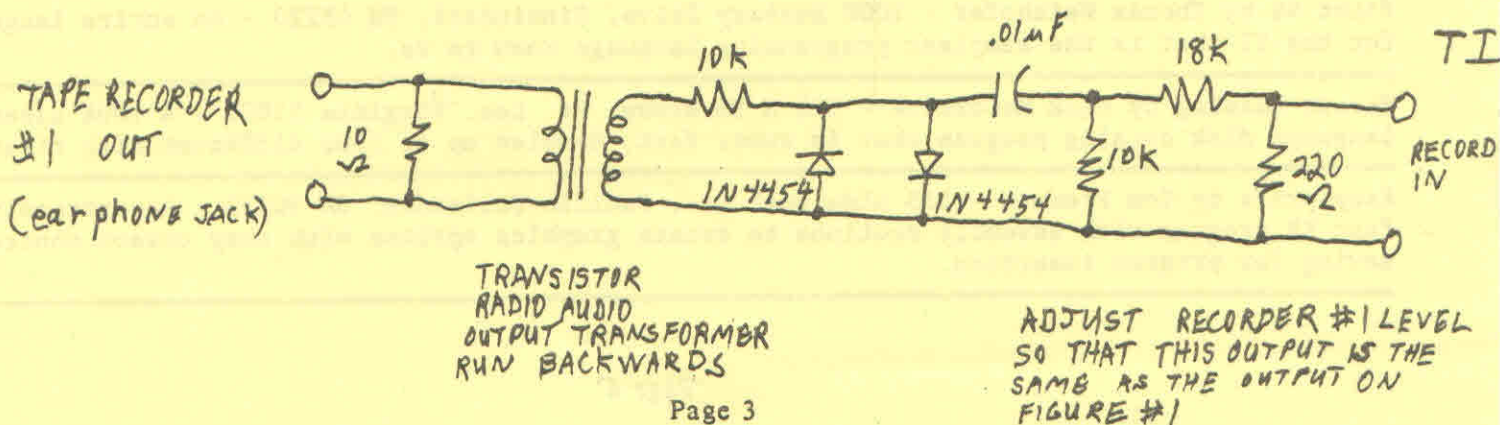


FIGURE #2





\*\*\*FREWARE LISTING\*\*\*

By accident, the following freeware listing was left out of last month's newsletter. Sorry about that!

---

Cape Cod Golf by Harry P. Richard - 18 Fruitwood Drive, Burnt Hills, NY 12027 (Cassette Only) - 9-hole golf simulation game written in console basic. Control of swing and direction with joysticks.

---

DM1000 by Bruce Caron - Ottawa Users Group (no address available) - A disk manager which rivals CorComp's manager; it can replace Disk Manager II.

---

Masscopy by Stephen Lawless - 2514 Maple Avenue, Wilmington, DE 19808 (single disk) - A sector disk copier that will copy to two disk drives at once. Will copy in three passes or one pass with a 128K card. Also has an initialization feature.

---

TK Writer by Tom Knight - 7266 Bunion Drive, Jacksonville, FL 32222 - A loader program that will let you use TI Writer without the cartridge.

---

Neatlist by Danny Michael - Route 9, Box 460, Florence, AL 35630 (single disk) - A utility program for the serious programmer. It will provide a listing of an Extended Basic program with only one statement per line.

---

Screendump by Danny Michael - Route 9, Box 460, Florence, AL 35630 (single disk) - Assembly screendump program that loads into the lower 8K of memory. Will dump a screen from a cartridge with the installation of an interrupt switch.

---

Director by Ron Rutledge - 1020 3rd Street, Wauke, IA 50363 (single disk) - An Extended Basic disk cataloger for keeping track of your library. A labeling feature for disk labels is also included.

---

Fast-term by Paul Charlton - 1110 Pinehurst Court, Charlottesville, VA 22901 (single disk) - A terminal emulator which supports TE II protocols and XMODEM.

---

Sprite Builder by Marty Krill - 218 Kaplan Avenue, Pittsburgh, PA 15227 (double-sided or 2 single-sided disks) - A sprite designing program with many features such as rotation, etc. Also has predesigned graphics characters and optional speech.

---

Forth2 by Thomas P. Weithofer - 1000 Harbury Dr., Cincinnati, OH 45224 (2 disks required) - Enhancements to TI Forth including auto-load from Extended Basic, various string manipulation routines, and sound routines to name a few.

---

X\_Diasm by Fred Hawkins - 1020 N. 6th St., Allentown, PA 18102 - An Extended Basic based disassembler with as many or more features than most.

---

Super Disk Duplicator by Tom Knight - 7266 Bunion Dr., Jacksonville, FL 32222 - A sector copier which lets you specify the starting and stopping sectors.

---

Pilot 99 by Thomas Weithofer - 1000 Harbury Drive, Cincinnati, OH 45220 - An entire language for the TI that is the simplest programming language know to us.

---

Master Catalog by Mack McCormick - 215 A Yorktown, Ft. Lee, Virginia 23801 - A 100% assembly language disk catalog program that is super fast; handles up to 2000 different disk files.

---

Easysprite by Tom Freeman - 515 Alma Real Dr., Pacific Palisades, CA 90272 - An extremely fast XB program with assembly routines to create graphics sprites with easy cursor control saving for program insertion.

---



---

Disassembler by Marty Kroll - 218 Kaplan Avenue, Pittsburg, PA 15227 - Super fast disassembler, 100% assembly and full featured.

---

Techie BBS by Monty Schmidt - 121 N. Blair, Madison, WI 53703 - Freeware BBS system for the 99/4A.

---

Compressor & Uncompressor by Monty Schmidt - 121 N. Blair, Madison, WI 53703 - Assembly language programs that take an uncompressed D/F80 AL program and will compress to about 2/3 the disk space and yield faster load times. As the names imply, one program does the compressing and the other program does the uncompressing.

---

PRO 99er BBS by Mark Hoogendoorne - 21 Long Street, Burlington, MA 01803 - TI BBS system with true TE II transfer capabilities.

---

Disk Manager by Todd Kaplan - 5802 N. Western Apt. 3S, Chicago, IL 60659 - Incredible disk manager - forget TI's DM2

---

\*\*\*REM\*\*\*

The CEDAR VALLEY 99'er USER'S GROUP NEWSLETTER is published by the Cedar Valley 99'er User's Group in the Cedar Rapids/Marion, Iowa area. Members are encouraged to contribute articles. Opinions expressed are those of the writer and not necessarily those of the Cedar Valley 99'er User's Group, its Officers, editor, or members. Other user groups may copy or use any article published in this newsletter, without the written consent of the CEDAR VALLEY 99'er USER'S GROUP, as long as credit is given to our group.

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```

routines which beat everyone
else - and then sent me two
more which beat his first
ones! His PEEK version -
100 DIM A(255),C(255):: FOR
K=255 TO 1 STEP -1 :: RANDOM
IZE :: CALL PEEK(-31808,B)::
J=INT(B#K/256+1):: C(K)=MAX
(J,A(J)):: A(J)=MAX(K,A(K))::
: NEXT K

```

```

And see if you can
unravel the logic of this
truly elegant bit of code!
100 DIM A(255):: RANDOMIZE :
: FOR K=255 TO 1 STEP -1 ::
J=INT(RND#K+1):: T=MAX(J,A(J
)):: A(J)=MAX(K,A(K)):: A(K)
=T :: NEXT K

```

So, on to new business -

#### ANNOUNCING

The TI-99/4A TRAVELER  
a magazine-on-disk!

700 sectors of articles  
and programs in each issue  
(SS/SD or DS/DD)!

with contributions by  
Mack McCormick, Ron  
Albright, and many others!

Special pre-publication  
prices - \$30 for 6 issues;  
\$7 for sample issue (first  
issue will be Sept 85)

Send your check now to  
Barry A. Traver, Editor  
835 Green Valley Drive,  
Philadelphia PA 19128  
phone (215) 483-1379

To give you an idea of  
Barry Traver's knowledge of  
our computer, try this one.  
I've figured out the why,  
but I'll have to ask Barry  
to explain the why of the  
why!

```

100 ! LINPUT PUZZLE/BUG by
B.A. Traver
110 ! QUESTIONS? Send SASE
to Barry Traver
120 ! 552 Seville St.
Phila. PA 19128
130 CALL CLEAR :: PRINT "LIN
PUT PUZZLE/BUG": "BY BARRY TR
AVER"
140 PRINT "Can you figure ou
t why your computer will not
obey?"
150 PRINT "Why won't it stop

```

```

when you tell it to?": :
160 LINPUT "Want me to stop?
(YES/NO)":W$
170 IF W$="YES" THEN STOP EL
SE 160
180 END

```

It seems that many of  
you still haven't heard of  
Super 99 Monthly, published  
monthly (and on time!) by  
Bytemaster Computer  
Services, 171 Mustang  
Street, Sulphur, LA 70663,  
for \$12 per year. The May  
issue contained a Word  
Processor Dump, to dump a  
graphics/text screen into a  
D/V80 file which can be  
printed out of the TI-Writer  
Formatter - that program  
alone is worth the annual  
subscription price!

I've said it before,  
there is more than one way  
to skin that poor cat. This  
is my routine to alternate  
between the #1 and #2  
joysticks.

```

Z=Z+1+(Z=2)#2 :: CALL (JOYST
(Z,X,Y)
Compact, isn't it? Now, the  
Reading-Berks 99ers publish  
a newsletter called "A Byte  
of Info", which is hardly  
more than a byte long, but  
the August byte was a  
mouthful! Check this -

```

```

100 Z=2
110 Z=1/Z#2 :: CALL JOYST(Z,
X,Y)
And this! Elegant!
Z=Z#0 :: CALL JOYST(Z+2,X,Y)

```

Here is another of  
those programs that write a  
program. This one will read  
a screen of graphics and/or  
text and convert it into a  
RUNable program of DISPLAY  
AT statements which will  
recreate the screen.

First, we need a file  
of the hex codes of all the  
normal characters, to check  
against to see if any have  
been redefined. Rather than  
key in all 95 of the  
16-digit codes, let's write

```

a program to write a program
of them -
110 OPEN #1:"DSK1.HEXCODES",
VARIABLE 163 :: LN=30000 ::
FOR D=32 TO 124 STEP 8 :: FO
R CH=D TO D+7 :: CALL CHARPA
T(CH,CH0)
120 D$=D#CHR$(179)&CHR$(200
)&CHR$(16)&CH0 :: NEXT CH
130 PRINT #1:CHR$(INT(LN/256
))&CHR$(LN-256#INT(LN/256))&
CHR$(147)&SE6$(D,2,LEN(D$))
&CHR$(0):: LN=LN+1 :: D$=""
:: NEXT D

```

```

140 PRINT #1:CHR$(255)&CHR$(
255):: CLOSE #1 :: END

```

RUN that to create a  
MERGE format program of DATA  
statements. Now, key in the  
GRAFWRITER program -

```

31000 SUB GRAFWRITER
31001 OPEN #1:"DSK1.P6",OUTP
UT,DISPLAY ,VARIABLE 163
31002 RESTORE 30000 :: L=300
00 :: GOSUB 31018
31003 FOR CH=32 TO 127 :: CA
LL CHARPAT(CH,CH0):: READ A$
:: IF CH#A$ THEN 31004 ELS
E GOSUB 31019 :: GOSUB 31018
31004 NEXT CH
31005 FOR CH=128 TO 143 :: C
ALL CHARPAT(CH,CH0):: IF CH#
=RPT$(0,16) THEN 31006 ELSE
GOSUB 31019 :: GOSUB 31018
31006 NEXT CH
31007 PRINT #1:L$&CHR$(157)&
CHR$(200)&CHR$(5)&"CLEAR"&CH
R$(0):: GOSUB 31018
31008 FOR R=1 TO 24
31009 M$=L$&CHR$(162)&CHR$(2
40)&CHR$(183)&CHR$(200)&CHR$(
LEN(STR$(R)))&STR$(R)&CHR$(
179)
31010 FOR C=3 TO 30 :: CALL
GCHAR(R,C,6):: CALL HCHAR(R,
C,42):: IF F=0 AND 6=32 THEN
31013
31011 F=1 :: IF FF=1 THEN 31
012 ELSE CC=C-2 :: FF=1
31012 A$=A$&CHR$(6)
31013 NEXT C :: IF CC=0 THEN
CC=1 :: A$=""
31014 PRINT #1:M$&CHR$(200)&
CHR$(LEN(STR$(CC)))&STR$(CC)
&CHR$(182)&CHR$(181)&CHR$(19
9)&CHR$(LEN(A$))&A$&CHR$(0)
31015 L=L+10 :: F,FF,CC=0 ::
M$,A$="" :: GOSUB 31018 ::
NEXT R
31016 PRINT #1:L$&CHR$(134)&

```

```

CHR$(201)&L$&CHR$(0):: GOSUB
31018
31017 PRINT #1:CHR$(255)&CHR
$(255):: CLOSE #1 :: SUBEXIT
31018 L1=INT(L/256):: L2=L-2
56#L1 :: L$=CHR$(L1)&CHR$(L2
):: L=L+10 :: RETURN
31019 PRINT #1:L$&CHR$(157)&
CHR$(200)&CHR$(4)&"CHAR"&CHR
$(183)&CHR$(200)&CHR$(LEN(STR
$(CH)))&STR$(CH)&CHR$(179)&
CHR$(199)&CHR$(16)&CHR$(182)
&CHR$(0):: RETURN
31020 SUBEND

```

Next, Enter MERGE DSK1.  
HEXCODES to merge in those  
DATA statements. Then save  
the program by SAVE  
DSK1.GRAFWRITER,MERGE

Now, load any program  
which has a screen you would  
like to copy. Run the  
program to the point where  
the screen display is ready,  
then break it with FCTN 4.  
Put in a temporary line  
going to itself, such as  
1001 GOTO 1001, and run the  
program again to be sure you  
found the right place. Then  
replace that temporary line  
with CALL GRAFWRITER :: STOP

Put in the disk  
containing the Grafwriter  
program and enter MERGE  
DSK1.GRAFWRITER. Then RUN  
the program. When it stops,  
type NEW, then MERGE DSK1.P6  
and then RUN!

Now for a Tigercub chall-  
enge that I can't answer!  
Can one of you assembly  
programmers tell me how to  
PEEK out of Extended Basic  
for screen color and charac-  
ter set colors, so I can  
reproduce them in that  
program?

And, thanks to Jerry Glaze  
in the Southern Nevada UG  
newsletter, by way of the  
Tidewater newsletter - you  
don't need SIZE with DISPLAY  
AT - just a semicolon!  
100 DISPLAY AT(12,1):RPT\$(#  
",28):: DISPLAY AT(12,1):"SE  
E?";  
MEMORY FULL! - Jim Peterson



\*\*\*SURVEY TIME\*\*\*

It's again time to evaluate the computing power of our membership, and we ask that each of you take time and answer the questions below. Your answers for the following questionnaire should be marked on the enclosed membership renewal form and returned to the club officers at the next meeting. For those of you who will not be able to attend the meeting, we suggest you fill out the questionnaire and mail it, with your membership dues, to either Jim Green or Ed Hayek. Each input is IMPORTANT! Thanks for your help!!

1. I own the following hardware:
  - a. Speech Synthesizer
  - b. PE Box
  - c. Expanded Memory
  - d. RS-232 Interface
  - e. 99/4A Console
  - f. Modem
  - g. Disk drive & controller
  - h. Additional disk
  - i. Printer
2. I own the following utility software:
  - a. Extended Basic
  - b. TE II
  - c. Mini-Memory
  - d. TI Writer or equiv
  - e. Multiplan
  - f. Logo
  - g. E/Assembler
  - h. None of these
3. Most of my computer time is used for (one only):
  - a. Education
  - b. Games
  - c. Word Processing
  - d. Other (Specify)
  - e. Data Storage/ Handling
  - f. Programming
4. The second most common use of my computer is (one only):
  - a. Education
  - b. Games
  - c. Word Processing
  - d. Other (Specify)
  - e. Data Storage/ Handling
  - f. Programming
5. List the computer magazine you subscribe to/read regularly:
  - a. HCM
  - b. Family Computing
  - c. Compute
  - d. Byte
  - e.
  - f.
6. I do/can do my own program writing:
  - a. Yes
  - b. No
  - c. Not interested in programming

7. I would be interested in attending an 8-12 week programming course:
  - a. Yes, Basic
  - b. Yes, Extended Basic
  - c. Yes, Forth
  - d. Yes, Assembly
  - e. No
8. I would be glad to help with the following committees:
  - a. Library
  - b. Newsletter
  - c. Technical/Hardware
  - d. Software
  - e. Education
  - f. Not interested
9. My PRIMARY reason for attending the monthly meeting is:
  - a. To learn about available software.
  - b. To learn about available hardware.
  - c. To learn about additional uses for my computer.
  - d. To learn how to get started with my computer.
  - e. To socialize.
  - f. To win a great door prize.
10. My second most important reason for coming to the group meeting is:
  - a. To learn about available software.
  - b. To learn about available hardware.
  - c. To learn about additional uses for my computer.
  - d. To learn how to get started with my computer.
  - e. To socialize.
  - f. To win a great door prize.
11. List the computer books you own and would be willing to lend to another member:
  - a.
  - b.
  - c.
  - d.
12. My intentions toward the 99/4A are best summarized by:
  - a. I will spend money to upgrade my system.
  - b. I will spend money to acquire a different home computer.
  - c. I will use my system as it is.
  - d. I probably won't use my home computer much.
13. If I could plan a monthly meeting, I would schedule a program about:

\*\*\*MEMBERSHIP RENEWAL FORM\*\*\*

Bring the completed membership renewal form (attached at the end of this newsletter) to the November 11th meeting, or mail it to Jim Green or Ed Hayek by November 30. Old memberships will expire December 1, 1985.



\*\*\*\*\*

Yes! I want to enjoy the benefits of membership in the Cedar Valley 99'er User's Group for another year, including monthly meetings, monthly newsletters, group purchases, library and software privileges, and dissemination of information. I am enclosing my 1986 dues of \$8.00.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Additional Family Members: \_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

Place questionnaire answers here:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

\_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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I want to enjoy the benefits of membership in the Cedar Valley 99'er User's Group for another year. Including monthly meetings, monthly newsletters, group purchases, library and software privileges, and dissemination of information. I am enclosing by this form of \$5.00.

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_

**REMINDER: THE NEXT MEETING IS MONDAY, NOVEMBER 11!**

Additional Family Members: \_\_\_\_\_  
\_\_\_\_\_

Cedar Valley 99'er User's Group  
288 Windsor Dr. NE  
Cedar Rapids, IA 52402

GARY BISHOP  
124-222