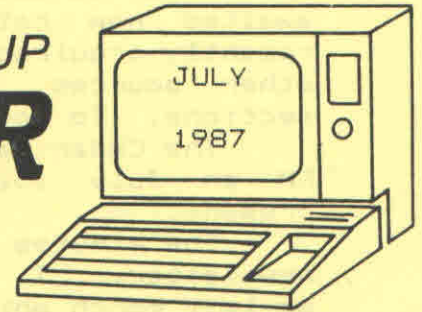


CEDAR VALLEY 99'ER USER GROUP NEWSLETTER



CEDAR RAPIDS/MARION, IOWA

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****NEWSLETTER TOPICS****

1. Future Meeting Dates
2. Next Meeting Notes
3. Minutes From July Meeting
4. Technician's Daffy Dictionary
5. Library Corner
6. From the Mailbox
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8. Correction to last newsletter
9. Nostalgia
10. Software Catalog Released
11. Booklet Review
12. For Sale/Wanted
13. Graphsheet Maker

****FUTURE MEETING DATES****

Please mark the following dates on your calendar for future meetings:
AUGUST 10, SEPTEMBER 14, OCTOBER 12.

*****NEXT MEETING*****

Monday, August 10, 7:00 PM at the JA building, 330 Collins Rd. NE.
Ed will have a surprise demonstration and we will discuss the recent Hamfest/computerfest. John Johnson will start the first class of assembly language instruction, also. Beat the heat in the air-conditioned meeting room!

MINUTES FROM THE JULY MEETING

Prior to the commencement of the meeting, Bruce passed out our long awaited new catalog of software. These lists include all the software recently acquired from the IUG, as well as all the years of input from other sources. Each member in attendance got a 39 page catalog in seven sections. To receive your copy, contact Bruce Winter.

The Cedar Valley 99er User Group meeting was called to order at 7:06 PM on July 13, 1987 by President Jerry Canady. Twelve members were present.

The minutes of the June meeting were approved as printed in the newsletter. I wish to thank "past secretary" Gary Bishop for subbing for me last month while I was living it up in California.

Treasurer Jim Harrington made up for his absence at the June meeting by giving the treasurer's report for both June and July. Both reports were approved as read.

OLD BUSINESS--SummerFest '87 reported by Gary Bishop. The dates are August 1 and 2. It will be held at the Five Seasons Center. Gary has tickets for sale (although by the time you read this report, the fest will be over). Flyers were passed out so maybe you will have seen one of them.

Our club booth is to consist of several items including the following:

1. Gary's ham set hooked up to his TI system showing his automatic decode program.
2. The club's TI system for other program demonstrations.
3. Other ideas suggested were to show off newsletters from other user groups, music programs, club membership applications, etc.

Gary requested help in manning the booth. It was moved and seconded that all members manning our booth will be furnished an entrance ticket by the club's treasury. Motion carried.

OPEN DISCUSSION--Reminder from Jim Green that the club has not yet sent a \$10 donation to Jim Peterson. The check was written. John Johnson reported having trouble running the "Improved Unrunnable Basic" program from the June newsletter. Jerry suggested: 1) Proof the program as written, 2) try with the sample program from the newsletter. The published listing came from a working program. John also mentioned that changing the VDP load resistor to 330 ohms (as suggested in our newsletter) "is not much help" in improving video.

A reminder to all members: take the time to fill out the owners survey found in the June newsletter.

NEW BUSINESS--The club system needs a double sided disk drive to access the latest disks we acquired from the IUG. Moved and seconded to buy such a drive for the club's system. Motion modified to specify a \$70 cap on the expense. Motion passed.

Editor Jim Green asked about "The Printer's Apprentice" program for publishing graphics with text. No one in the club has the program. Jim asked to buy the program for use by the newsletter editor. Tabled until Jim can do more research about available programs, including CSGD, Fontwriter, etc. More next month...

Jim talked about the correspondence received the past month. A letter from TI is covered elsewhere in the newsletter. Other flyers were made available to the members present. Four new programs were received from Innovative Programs. Bruce will review these and include them in the library.

Business meeting was adjourned. The demonstration for the evening was by Ed Edwards of his Funnel Plus program. Bruce also showed us Monopoly.

Submitted by Bill Paeth, Secretary

* * * FROM THE MAILBOX * * *

The following articles and information were received during the past month; copies of any of the following may be obtained by making your wishes known to any of the officers (who will search to see which of them has the newsletter in question!).

Methods to set up autoloading of your programs on disk; various TI Writer tips. (Suncoast Beeper, May 1987)

Various articles on care and feeding of disks and disk drives; schematic of a build-it-yourself cartridge expander. (Cin-Day News, June 1987)

Hardware modification projects to: add 32K memory onto the 16 bit bus, install Extended Basic inside your console, taking orders for an expansion board to fit within the PEB; continued listing of TI suppliers. (West Penn 99'ers, July 1987)

Four shareware programs by Galen Read, sent from Innovative Programming, P.O. Box 2737, Rohnert Park, CA 94928. This supplier is new to us, and offers all CorComp, Myarc, and DataBioTics hardware and software products. Price list and order form enclosed.

A new flight simulator program, Spad XIII, is available on disk from Not-Polyoptics, P.O. Box 4443, Woodbridge, VA 22194. A 20% discount is available through the user group; price normally \$29.95.

Unitech, Cambridge, MA 02141, carries computer related supplies, disks, paper, drives, IBM expansion hardware.

Articles for beginners of FORTH and LOGO; announcement of a shareware program for converting TI Writer files to program files from Andrew Becker, 172-35 Henley Rd., Jamaica NY 11432. (QB Monitor, May 1987, a new addition to our newsletter exchange group!)

Short program listings to print a disk envelope and a disk mailing label; a listing of 27 companies that sell TI related products. (Penn-Ohio UG, Apr 1987)

Review of a new Command DOS program by Monty Schmidt (Ryte Data) which will give much added capability to the TI system (requires Gramcracker or minimem or Super Cart). (Penn-Ohio UG, June/July 1987)

Hardware mod instructions for battery charging circuit on Horizon Ramdisk; a list of most disk drives available for use on the TI. (SNUGLETter, July 1987)

An explanation of serial data transmission; a new CALL LOAD to delete or bring back program lines in memory; a template containing function key strips for most of the popular TI utility programs. (Cleveland Area 99-ers, July/August 1987)

A review of "Spad XIII" flight simulator program; announcements of several newer programs for the 99/4A. (San Diego TI Sig, July 1987)

A disk cataloger program that can adapt to any popular printer; a method, using the DSRLNK, to make programs work with a ramdisk that otherwise don't; getting more than 80 columns from a TI Writer document; an assembly routine to help QUADCOL run faster; a review of Joypaint 99. (LA Topics, July 1987)

By the time you read this, the Summerfest 87 show will be history. This hamfest/computer fest was sponsored by the Cedar Valley Amateur Radio Club, and drew folks from several states in the midwest. The officers want to give a big THANK YOU to those members who gave up part of their weekend Aug. 1 and 2 to man our booth at the show and demonstrate the loyalty we have to the TI!

* * * THE LIBRARY CORNER * * *

The club has received three new programs, Easy Design, Network, and Characters. These are not on the new software listing, so if you would like one of these programs, please specify disk #161 and the program name.

EASYDESIGN: Is an Editor/Assembler program that will enable you to design special characters for Extended Basic programs. It displays a grid to design your character in a large format, and at the same time displays your character in the standard size. Also the hex character codes are displayed.

NETWORTH: Is an Extended Basic program that will calculate your net worth. Data can be saved, loaded, printed, and changed.

CHARACTERS: A utility that is handy to use in Extended Basic as it will create complete upper and lower case characters with lower case characters having true descenders. That is the description given with the program, but I couldn't get it to work. Does anyone have time to try it?

Also on the same disk was DISK DOCTOR. A utility that patches together fractured files, thereby decreasing load/save times. We do have this program listed on the new software library catalog. (Bruce Winter)

* * * BOOKLET REVIEW * * *

Have you seen those intriguing little ads in the back of Computer Shopper, asking you to send \$5.95 plus \$1.00 shipping for "The Innermost Secrets of the TI-99/4A"? Well, I finally bit and sent them my check. In two weeks, the booklet arrived, authored by Randy Holcolm. It is an interesting collection of odd facts and information, none of which is any news (at least to me). I imagine back in 1983 when this was published, it was hot stuff. However, I have seen all this information published elsewhere.

This 27 page pamphlet has a memory map, a brief description of the Video Display Processor (TMS 9918A) and a passable description of the TMS 9900 architecture. The P-system and file organization are sparsely described, and a paragraph about the author is included. A 10 page disassembly of the RS232 DSR is included--no comments in the listing--just a disassembly. A short description of the various parts of a DSR are also outlined. Finally, several ads are included at the end, presumably to help defray the cost of printing. Overall, I'm not impressed, but this booklet could be useful for someone starting out writing DSR's.

* * * NOSTALGIA * * *

Do you remember what a TI store display looked like? Remember the PE box in the middle of the display, the black and silver console on the shelf, the colorful advertisement on the border? And all the different types of software it pictured: Word Processing, Touch Typing Tutor, Programming Aids, and of course all the different games available. The joysticks were dangling down the sides, and a small chain holding the console down. Well, I had my memory cells refreshed recently with a trip to Dhein's Hardware in Waterloo. I was going up to Waterloo with the family to an art exhibition at UNI. On the way home, I dropped off 2 tickets to the coming hamfest at the Five Seasons Center. The club provided these tickets to the Dheins so they could bring their Myarc 9640 computer to display at our TI club table on Sunday. Remember the prices? I've said it on other occasions, and now I'll put it in print: The best thing TI may have done for us is to abandon our computer. Sure, it may have decimated our ranks, but like a phoenix rising above the ashes, the hearty have survived and prospered.

Gary Bishop

TIPS FROM THE TIGERCUB

#42

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

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Over 130 original programs in Basic and Extended Basic, available on cassette or disk, now reduced to just \$2.00 each, plus \$1.50 per order for cassette or disk and PP&M. Cassette programs will not be available after my present stock of blanks is exhausted.

Descriptive catalogs, while they last, \$1.00 which is deductible from your first order.

Tigercub Full Disk Collections, reduced to \$10 postpaid. Each of these contains either 5 or 6 of my regular \$2 catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - they are a free bonus!

TIGERCUB'S BEST, PROGRAMMING TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID'S GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCABULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPIES AND DISPLAYS

NUTS & BOLTS (No. 1), a full disk of 100 Extended Basic utility subprograms in merge format, ready to merge into your own programs. Plus the Tigercub Menuloader, a tutorial on using subprograms, and 5 pages of documentation with an example of the use of each subprogram. Reduced to \$15.00 postpaid.

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TIPS FROM THE TIGERCUB VOL. 3, another 62 programs, tips and routines from Nos. 25 through 32, \$10 postpaid.
TIPS FROM THE TIGERCUB VOL. 4, another 48 programs and files from issues 33 through 41, also \$10 postpaid.

I'm very sorry about the error in the BXB routine in Tips #40. The "program to write a program" generated line number 32000 instead of 30002. Here is the correct line -

```
110 OPEN #1:"DSK1.BXBDATA",V
    ARIABLE 163,OUTPUT :: PRINT
```

```
#1:CHR$(117)&CHR$(50)&"J[\[
$"&CHR$(190)&CHR$(199)&CHR$(
136)&M$&CHR$(0)
```

The Hyphenated Fill and Adjust in Tips #41 will crash if the file contains a line with one character too many, which may be only an unnecessary control character. This fix will help -

```
300 IF LEN(M$)<=L THEN 310 :
: CALL SOUND(200,110,0,-4,0)
:: PRINT M$;" is";LEN(M$);"c
haracters long":Truncated t
o ";SEG$(M$,1,L):"OK? (Y/N)"
305 CALL KEY(3,K,S):: IF S=0
THEN 305 ELSE IF K<>89 THEN
STOP ELSE M$=SEG$(M$,1,L)
310 PRINT #2:M$ :: IF EOF(1)
<>1 THEN 220 ELSE CLOSE #1 :
: CLOSE #2
```

I know that this line is wrong, but key it in just as it's printed, and see what kind of error message you get -

```
100 !DISPLAY AT(3,1):"Progra
m must be SAVED in:"MERGE fo
rmat."
```

A friend asked me for a program to help him solve the Scram-Lets puzzles in our local newspaper, so I rewrote the Anagrammer that was published way back in Tips #12. It will print out all possible combinations of any 3- to 6-letter word, or only those which have one or two letters in specified positions.

```
100 CALL CLEAR :: DISPLAY AT
(3,5)ERASE ALL:"SCRAM-LETS S
OLVER":! by Jim Peterson
110 DISPLAY AT(8,1):"OUTPUT
TO? 1:" (1) SCREEN:" (2)
PRINTER" :: ACCEPT AT(8,12)
VALIDATE("12")SIZE(-1):P ::
P=P-1
120 IF P=1 THEN DISPLAY AT(1
2,1):"PRINTER? PID" :: ACCEP
T AT(12,10)SIZE(-18):P$ :: O
PEN #1:P$
130 PL(1),PL(2)=0 :: L$(1),L
```

```
$ (2)=" " :: DISPLAY AT(5,1)ER
ASE ALL:"TYPE A 3-,4-,5- OR
6-LETTER WORD " :: ACCEPT A
T(6,6):A$ :: W=LEN(A$):: IF
(W<3)+(W>6)THEN 130
140 DISPLAY AT(14,1):"SEARCH
FOR COMBINATION WITH:"LETT
ER IN KNOWN POSITION? N" ::
ACCEPT AT(15,27)VALIDATE("YN
")SIZE(-1):Q$ :: IF Q$="N" T
HEN 180
150 DISPLAY AT(17,1):"LETTER
?" :: ACCEPT AT(17,9):L$(1):
: DISPLAY AT(19,1):"POSITION
?" :: ACCEPT AT(19,11):PL(1)
160 DISPLAY AT(21,1):"ANOTHE
R LETTER/POSITION? N" :: ACC
EPT AT(21,26)VALIDATE("YN")S
IZE(-1):X$ :: IF X$="N" THEN
180
170 DISPLAY AT(21,1):"LETTER
?" :: ACCEPT AT(21,9):L$(2):
: DISPLAY AT(23,1):"POSITION
?" :: ACCEPT AT(23,11):PL(2)
180 PRINT #P :: FOR J=1 TO W
:: B$(J)=SEG$(A$,J,1):: NEX
T J :: FOR J=2 TO W :: IF B$(
J)>B$(J-1)THEN 220
190 T$=B$(J):: FOR L=J-1 TO
1 STEP -1 :: B$(L+1)=B$(L)
200 IF B$(L-1)>T$ THEN 210
:: B$(L)=T$ :: 50TO 220
210 NEXT L
220 NEXT J
230 FOR A=1 TO W :: FOR B=1
TO W :: IF B=A THEN 440
240 FOR C=1 TO W :: IF (C=A)
+(C=B)THEN 430
250 IF W=3 THEN 310
260 FOR D=1 TO W :: IF (D=A)
+(D=B)+(D=C)THEN 420
270 IF W=4 THEN 320
280 FOR E=1 TO W :: IF (E=A)
+(E=B)+(E=C)+(E=D)THEN 410
290 IF W=5 THEN 330
300 FOR F=1 TO W :: IF (F=A)
+(F=B)+(F=C)+(F=D)+(F=E)THEN
400 ELSE 340
310 W$=B$(A)&B$(B)&B$(C):: I
F W$<=V$ THEN 430 ELSE 350
320 W$=B$(A)&B$(B)&B$(C)&B$(
D):: IF W$<=V$ THEN 420 ELSE
350
330 W$=B$(A)&B$(B)&B$(C)&B$(
D)&B$(E):: IF W$<=V$ THEN 41
0 ELSE 350
340 W$=B$(A)&B$(B)&B$(C)&B$(
D)&B$(E)&B$(F):: IF W$<=V$ T
HEN 410
350 IF Q$="N" THEN 380
```

```

360 IF SEG$(W$,PL(1),1)<>L$(
1)THEN 390
370 IF X$="N" THEN 380 ELSE
IF SEG$(W$,PL(2),1)<>L$(2)TH
EN 390
380 PRINT #P:W$&" ";; 6=6+1
390 V$=W$ :: ON W-2 GOTO 430
,420,410,400
400 NEXT F
410 NEXT E
420 NEXT D
430 NEXT C
440 NEXT B
450 NEXT A
460 PRINT #P: " " ;G;"TOTAL
COMBINATIONS." : : : 6=0 : :
V$=" " : : PRINT "PRESS ANY K
EY"
470 CALL KEY(0,K,S):: IF S=0
THEN 470 ELSE 130

```

And here is a much-improved XBasic version of the Adder-Upper which first appeared in Tips #13. I find it very useful in adding up several categories of figures in one pass.

```

100 CALL CLEAR :: CALL SCREE
N(16):: FOR SET=1 TO 14 :: C
ALL COLOR(SET,5,1):: NEXT SE
T
110 DISPLAY AT(3,4)ERASE ALL
:"TIGERCUB ADDER-UPPER": : "T
o add up several categories"
:"at one time.": : "Input cat
egories - END when": "finishe
d"
120 CALL KEY(3,K,S):: DIM C$(
22),T(22)
130 X=X+1 :: DISPLAY AT(12,1
):"Category #";STR$(X):: ACC
EPT AT(12,13):C$(X):: IF C$(
X)="END" THEN X=X-1 :: GOTO
170
140 A$=SEG$(C$(X),1,1):: IF
POS(F$,A$,1)=0 THEN F$=F$&A$
:: IF X<17 THEN 130 ELSE 17
0
150 DISPLAY AT(15,1):"Code l
etter ";A$;" already": "used.
": "Pick another code letter"
:: ACCEPT AT(17,26)SIZE(1):
A$
160 IF POS(F$,A$,1)<>0 THEN
DISPLAY AT(15,1):";";";";";";
GOTO 150 ELSE F$=F$&A$ :: C$(
X)=A$&C$(X):: DISPLAY AT(15
,1):";";";";";"; IF X<17 THEN 1

```

```

30 ELSE 170
170 CALL CLEAR :: R=2+(X>8):
: FOR J=1 TO X :: DISPLAY AT
(R,1):"(";SEG$(C$(J),1,1);"
";SEG$(C$(J),2,255):: R=R+2+
(X>8):: NEXT J
180 DISPLAY AT(R+2,1):"Categ
ory ";F$ :: DISPLAY AT(R+4,1
):"Amount"
190 DISPLAY AT(24,1):"Use mi
nus value to subtract"
200 ACCEPT AT(R+2,11+LEN(F$)
)SIZE(1)VALIDATE(F$):Z$ :: Y
=POS(F$,Z$,1)
210 ACCEPT AT(R+4,8)VALIDATE
(NUMERIC):A :: T(Y)=T(Y)+A :
: DISPLAY AT(Y*(2+(X>8)),20)
:T(Y):: GOTO 200

```

Can you figure this one out? (I can't!) -

```

100 DISPLAY AT(3,4)ERASE ALL
:"ILLOGICAL COMPUTER!!": : "
by Tigercub"
110 DISPLAY AT(7,1):"100 IF
A=2 THEN IF B=2 THEN C=4 ELS
E IF A=2 THEN IF B=3 THEN C=
6 ELSE IF A=3 THEN IF B=3 TH
EN C=9 ELSE IF A=3 THEN IF B
=4 THEN C=12 ELSE C=9"
120 DISPLAY AT(14,1):"Why ca
n't you get C to ": "equal 9
or 12 or 99?"
130 DISPLAY AT(18,1):"A? " :
: ACCEPT AT(18,4):A :: DISPL
AY AT(20,1):"B? " : : ACCEPT
AT(20,4):B
140 IF A=2 THEN IF B=2 THEN
C=4 ELSE IF A=2 THEN IF B=3
THEN C=6 ELSE IF A=3 THEN IF
B=3 THEN C=9 ELSE IF A=3 TH
EN IF B=4 THEN C=12 ELSE C=9
9
150 DISPLAY AT(22,1):"C=";C
:: GOTO 130

```

This might come in handy to dress up a program -

```

100 CALL CLEAR :: CALL COLOR
(2,5,16):: CALL HCHAR(1,1,42
,768)
110 X=X+1 :: DISPLAY AT(X,9)
:"*****"::: DISPLAY
AT(X+1,9):"PRESS ANY KEY": :
DISPLAY AT(X+2,10):"TO CONT
INUE";
120 CALL KEY(0,K,S):: ON S+1
GOTO 110,130

```

```

130 !continue program here

Or, if you'd rather do it
backwards -

100 CALL CLEAR :: CALL COLOR
(2,5,16):: CALL HCHAR(1,1,42
,768)
110 FOR X=10000 TO 1 STEP -1
:: DISPLAY AT(X+2,9):"*****
*****"::: DISPLAY AT(X+1,
9):"TO CONTINUE"; : : DISPLA
Y AT(X,9):"PRESS ANY KEY";
120 CALL KEY(0,K,S):: ON S+1
GOTO 130,140
130 NEXT X
140 !continue program here

```

You might find this one useful -

```

100 ! PAINT CALCULATOR by Ji
m Peterson
110 CALL CLEAR :: FOR SET=1
TO 12 :: CALL COLOR(SET,2,8)
:: NEXT SET :: CALL SCREEN(5
):: CALL KEY(3,K,S):: ON WAR
NING NEXT
120 DISPLAY AT(3,7)ERASE ALL
:"PAINT CALCULATOR": : "To de
termine the amount of": "pain
t needed for a room."
130 DISPLAY AT(8,1):"Is the
room a regular square or rec
tangle? Y" :: ACCEPT AT(9,16
)SIZE(-1)VALIDATE("YN")BEEP:
Q$ :: IF Q$="Y" THEN 160
140 DISPLAY AT(11,1):"How ma
ny rectangular areas": "does
the room contain?" :: CALL A
CCEPTER(12,24,A):: IF A=1 TH
EN 160
150 FOR B=1 TO A :: DISPLAY
AT(3,10)ERASE ALL:"AREA #";B
:: GOTO 170
160 CALL CLEAR
170 DISPLAY AT(5,1):"How hig
h is the ceiling?": " ft.
in." :: CALL ACCEPTER(6,2
,HF)
180 CALL ACCEPTER(6,9,HI)::
HI=HI/12 :: H=HF+HI
190 DISPLAY AT(8,1):"How man
y walls?" :: CALL ACCEPTER(8
,17,W):: CALL HCHAR(5,1,32,6
40)
200 FOR J=1 TO W :: DISPLAY
AT(5,10):"WALL #";J: "Width
ft in" :: CALL ACCEPT
ER(7,7,Wf)
210 CALL ACCEPTER(7,13,WI)::

```

```

WI=WI/12 :: WW=WF+WI :: SQ=
SQ+H*WW
220 DISPLAY AT(11,1):"How ma
ny doors, windows or": "other
areas not to be": "painted i
n wall #";J;"?"
230 CALL ACCEPTER(13,19,D)::
IF D=0 THEN 280
240 FOR L=1 TO D :: DISPLAY
AT(15,1):"AREA NOT TO PAINT
#";L: "Width ft in" ::
CALL ACCEPTER(17,10,WDF)
250 CALL ACCEPTER(17,16,WDI)
:: WDI=WDI/12 :: WD=WDF+WDI
260 DISPLAY AT(19,1):"Height
ft in" :: CALL ACCEPTER(
19,11,HDF)
270 CALL ACCEPTER(19,17,HDI)
:: HDI=HDI/12 :: HD=HDF+HDI
:: SQ=SQ-WD*HD :: NEXT L
280 NEXT J :: DISPLAY AT(21,
1):"Paint the ceiling?" : : A
CCEPT AT(21,20)SIZE(1)VALIDA
TE("YN"):QQ$ :: IF QQ$="N" T
HEN 320
290 CALL HCHAR(5,1,32,640)::
DISPLAY AT(5,1):"Ceiling di
mensions": : " ft in by
ft in" :: CALL ACCEPT
ER(7,2,CWF)
300 CALL ACCEPTER(7,8,CWI)::
CWI=CWI/12 :: CW=CWF+CWI
310 CALL ACCEPTER(7,17,CLF):
: CALL ACCEPTER(7,23,CLI)::
CLI=CLI/12 :: CL=CLF+CLI ::
SQ=SQ+CW*CL
320 CALL HCHAR(5,1,32,640)::
IF Q$="Y" THEN 340
330 NEXT B
340 DISPLAY AT(3,1)ERASE ALL
:"Total of";INT(SQ+.5);"squa
re feet."
350 DISPLAY AT(5,1):"How man
y square feet will": "one gal
lon of your paint": "cover?"
360 ACCEPT AT(7,8)SIZE(3)VAL
IDATE(DIGIT)BEEP:SF :: DISPL
AY AT(9,1):"How many coats?"
:: CALL ACCEPTER(9,17,C)::
6=SQ/SF*C :: 6=INT(6+.5)
370 DISPLAY AT(15,1):"You wi
ll need";6;"gallons or":6/4;
"quarts of paint."
380 CALL KEY(0,K,S):: IF S=0
THEN 380 ELSE STOP
390 SUB ACCEPTER(R,C,Q):: AC
CEPT AT(R,C)SIZE(2)VALIDATE(
DIGIT)BEEP:Q :: SUBEND

```

Memory full! - Jim P.

GOOD BUY DEPARTMENT

The latest issue of the COMPUTER SHOPPER has an ad for the AVATEX 1200 modem for \$85. To order call 1-800-232-6342 or write;

MEGATRONICS INC.
P.O. BOX 3660
LOGAN, UTAH 84321

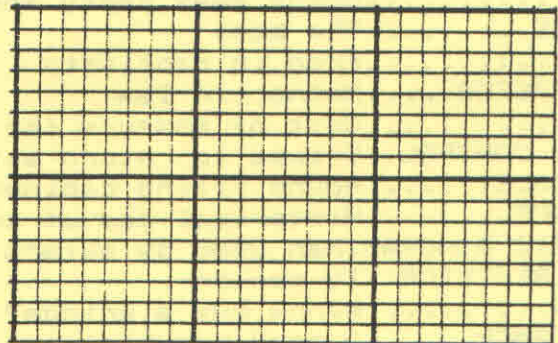
GRAPHSHEET PROGRAM

This program written by John Behnke creates an 8 1/2 x 11" sheet with an 8 x 8 grid. It should be a real aid in character design. Originally I found this program in a newsletter but one line was missing. As I sorted some copies I had for future use I found the complete program. Sorry but my filing system lost track of what newsletter it came from. My thanks to John for the program and to the unknown group that brought it our way.

```

100 REM *****
110 REM * GRAPHSHEET MAKER *
120 REM * by John Behnke *
130 REM * Chicago TI U.G. *
140 REM * Epson or Gemini *
150 REM * Printer required *
160 REM * Basic or X-Basic *
170 REM *****
180 CALL CLEAR
190 INPUT "Number of sheets?
":A
200 CALL SCREEN(2)
210 @S=CHR$(27)
220 FOR I=1 TO 228
230 AS=AS&CHR$(128)
240 NEXT I
250 BS=SEG$(AS,1,7)
260 CS=CHR$(255)&SEG$(AS,1,6
)
270 FOR I=1 TO 4
280 FOR J=1 TO 8
290 ES=ES&CS
300 NEXT J
310 ES=ES&CHR$(255)
320 NEXT I
330 FS=@S&"K"&CHR$(484)&CHR$
(O)&ES
340 GS=@S&"K"&CHR$(228)&CHR$
(O)&AS
350 OPEN #1:"PIO.CR"
360 FOR B=1 TO A
370 FOR C=1 TO 11
380 PRINT #1:@S&CHR$(64)&@S&
"3"&CHR$(16)
390 FOR D=1 TO 8
400 PRINT #1:FS;FS;CHR$(10)
410 NEXT D
420 PRINT #1:GS;GS;@S&"3"&CH
R$(2)
430 NEXT C
440 PRINT #1:@S&"3"&CHR$(17)
450 FOR I=1 TO 9
460 PRINT #1:CHR$(13)&CHR$(1
O)
470 NEXT I
480 NEXT B
490 CLOSE #1
500 END

```



TECHNICIAN'S DAFFY DICTIONARY

The following was taken from the 99'er Online (Edmonton, Canada), who credit the Milwaukee U.G. and the Tacoma U.G. Thanks to the grapevine! This listing should help us laymen better understand the hardware technicians in our group.

AMPS.....Little creepy crawlies
 ARC.....Welding invented by Noah
 BUS BAR.....Mobile cocktail lounge
 CAPACITOR.....One who can hold his liquor
 COAXIAL.....2 engineers fired simultaneously
 COMMUTATOR.....One who drives to the city each day
 CONDENSOR.....Writer for Reader's Digest
 DEGAUSS.....To remove a bandage
 DETECTOR.....Private eye
 DETENT.....A small outdoor canvas shelter
 DIODE.....Eulogy in poetic form
 ELECTRODE.....Automated highway
 FARAD.....Deposed Egyptian ruler
 FOURIER.....Superceded by fiveier
 GAMMA.....Short for Grandmother
 GAUSS.....Singular for geese
 GERMANIUM.....Solid state pink flower
 HERTZ.....Medical term for pain; coincident with DEGAUSS
 IMPEDANCE.....Brat desparately needing bathroom break
 INFRARED.....American spy in Moscow
 ION.....Device to remove wrinkles
 JOULE.....Gift from rich uncle
 KILOVOLT.....Only volt on the ten most wanted list
 LOAD LINES.....Monday morning wash
 LOGARITHM.....Dancing on logs
 MICROFARAD.....Son of deposed Egyptian ruler
 MHO.....Asking for seconds in Alabama
 NEGATIVE CHARGE..Poor credit risk
 OHM.....House in England
 OUTLET.....Going away party for engineers
 OVERHEAD.....The boss
 PENTODE.....Frog in captivity
 POWER FACTOR.....Mother-in-law
 QUARTZ.....Unit of measure for booze
 QUALITY CONTROL..Excuse to return extra parts
 RECEPTACLE.....Round filing cabinet
 RESONANCE.....Historical age of artistic rebirth
 SCHEMATIC DIAGRAM..Man used by skiers
 SERIES RESISTOR..TV censor
 SILICON.....Wanna buy a bridge?
 TRANSFORMER.....A good beautician
 TUNER.....Piano repairman
 TUBE CHECKER.....Chemistry student
 UHF.....Sound made by tackled quarterback
 VACUUM.....Product made by Hoover
 VARIABLE MU.....Sounds of many cats
 VOLT.....What Russians cast in elections
 WATT-HOUR.....How the French ask for the time
 ZERO DEFECTS.....Production line shut-down

* * * FOR SALE / WANTED * * *

FOR SALE: TI computer, joysticks, cables, speech synthesizer, and Extended Basic. Asking \$75 for all. Gary Kristiansen, 393-2558.

FOR SALE: The following items are available from Dave Reinhart, 377-0661, 169 Chatham Rd NE, Cedar Rapids 52402. Prices are negotiable.

Speech synthesizer	\$25	Disk storage case	\$ 2
CorComp RS-232/parallel	70	Doom of Modular	5
Old Dark Caves	10	Doom char. generator	5
Cassette cable (single)	3	Super Sketch	20
Terminal Emulator II	7	Return to Pirates Isle	3
TI Invaders	2	Star Trek	7
Adventure/Pirates Adven.	3	Savage Island I II	3
Super Demon Attack	2	Teach Yourself XB (Cs)	2
Blank disks 45 @ \$20 or .50		16 utility pgm disks	16
4 adventure disks	4	8 game disks	8

* * * SPECIAL ANNOUNCEMENT FROM TI * * *

Our group received a (form) letter from TI asking that we make the following announcement: Texas Instruments cannot sell home computer products, either new or used. Rumors have been circulating that TI still is selling product. TI refers us to either Triton or Tenex.

Repair of TI home computer products will still be handled at published repair rates through TI, 2305 North University Ave., Lubbock, TX 79408. Contact the service people at 806-747-1882.

* * * SOFTWARE LIBRARY CATALOG NOW ISSUED * * *

A note about the new software list: If you didn't pick up the new list at the July meeting, please try to get it at the August 10 meeting. If you live too far out of town to make the meeting, we will mail your copy. The list is divided into seven sections: Games, Music, Educational, Utilities and Graphics, Home Ideas, Business and Professional, Shareware. Remember, the programs are now free, but you must supply the tape or disk. The club has a supply of disks that will cost \$1.00 when supplied with a software order. When ordering programs, please include the disk number and program name and/or title. The letter under the heading called "RATE" is the program rating which is subject to the reviewer's bias. E is excellent, G is good, F is fair, P is poor, and a blank space for not rated. I think the rest of the list is self-explanatory. If you have any questions or comments or would like to order some programs, contact Bruce Winter or come to the monthly meeting.

Many thanks to Ann Dhein and her husband for coming to the Summerfest '87 on August 2. They demonstrated the current version of the Myarc 9640 computer to those of us still remaining at the show. Ann promised that she will come back to Cedar Rapids for a group meeting when Myarc has the operating system more complete. We look forward to a thorough demonstration! Thanks, Dheins!

* * * CORRECTION TO UNRUNNABLE BASIC * * *

The IMPROVED UNRUNNABLE BASIC program by Richard Heath in the June 87 newsletter had a misprint in line 32700. The quantity must be placed after the expression (B-1). This line then reads as below.

```
32700 SUB COLOR(A,B,C)::CALL LOAD(9492,8,15+A,(B-1)+C-1)
```

While trying to figure out the problem (before I had the corrected version) I wondered about the term (B-1)+C-1. I knew that the value of B must be the foreground color and the value of C was the background color. With the addition of the term it looks to me that he is storing the value of both B and C at one address in memory. Because the highest value of B or C is 16, multiplying by 16 allows for decoding the values of B and C as follows. Divide the value at that address by 16 and the integer will be the value of B-1 and the remainder will be the value of C-1. Looks pretty neat to me.

John Johnson

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