

Tacoma
Oct 86



TACOMA 99ERS USERS GROUP NEWSLETTER

MAILING ADDRESS
P. O. BOX 42383
TACOMA, WA 98442

VOLUME 3

OCTOBER 1986

ISSUE 10

- IMPORTANT HCM NEWS -

THE FOLLOWING LETTER WAS SENT TO HOWIE ROSENBERG, WHO IN TURN UPLOADED IT TO COMPUSERVE FOR PUBLIC NOTICE.

I have just uploaded a copy of a letter sent by Guy Stephen Romano to me and Terrie Masters for distribution to the TI community. It indicates that in addition to the mail fraud and money back campaign organized and run so well by Jeff Guide, that there may be other legal recourse. For anyone interested in giving Mr. Kaplan his due, or just in justice in general please read, pass along, and take action.

PLEASE PROMULGATE

Dear Howie and Terrie,

I have finished gathering this information that I know will be of some help to all those who have been cheated by Home Computer Journal and 99'er. The information was obtained both first hand and by several sources reporting their results, so it is a composite.

It seems that at the same time HCJ was sending out their "postcard" offer to subscribers, they were also closing down and dissolving Emerald Valley Publishing. The new company, composed of all the very same people, is called Computer Technology Publishing. Call them to complain about what they did to TI owners and they'll tell you they

are not liable for anything since Emerald Valley Publishing is no more. They will refuse to talk to anyone further.

The district attorney in Eugene, Oregon has received enough complaints that they have begun an investigation. They are interested in hearing from any and all complaints about HCJ. They have exerted pressure on HCJ so that a few people have actually gotten their money back on unfinished subscriptions. To strengthen the case against HCJ, however, they need to hear from "damaged parties" or they will be helpless. Anyone who was cheated by HCJ is strongly urged to contact:

DISTRICT ATTORNEY
CONSUMER RELATIONS
400 LAKE COUNTY COURTHOUSE
EUGENE, OREGON
(503) 687-4261

If people will take a few minutes of their time to let them know about their complaints, maybe the scam can be ended permanently. Please pass this along to as many people as you can. IMPORTANT - all complaints should be leveled against Emerald Valley Publishing Co. aka, etc.

As always thank you for your support for TI owners everywhere.

Original signed by Guy S. Romano

FLASH!

FLASH!

MILLERS'S GRAPHICS announced at the Seattle TI Fair that a product to be announced in January will allow us to run MS-DOS software on out TI machines.

He said we could run 100% of what we now have PLUS all (at least most) of MS-DOS software. (i.e. LOTUS 1-2-3, WINDOWS, SIDEKICK, ETC.) It will handle up to 8 meg of Ram. ALSO, we can use a new keyboard if we desire, plus hard drives. All cards available for the IBM/clones will be available for us for the first time!

This sounds like what we have been waiting for and what will keep OUR TI/99A ALIVE.

THANKS CRAIG...We've been waiting for this for a long time.



WANTED

ARTICLES, PROGRAMMING TIPS, PROGRAM OR COMPUTER BOOK REVIEWS, COMPUTER RELATED CARTOONS AND OTHER DATA FOR YOUR NEWSLETTER. PLEASE, SUBMIT YOUR CONTRIBUTIONS TO THE EDITOR IN TI-WRITER/BA-WRITER (DV-80), ON DISK (If Possible) BY THE 25th OF EACH MONTH. YOUR DISK WILL BE RETURNED. I ALSO WELCOME LEGIBLE COPY FROM THOSE WITHOUT EXPANDED SYSTEMS. I WILL KEY IT IN, BUT YOUR COPY MUST BE RECEIVED BY THE 22nd OF THE MONTH. BRING YOUR DISK OR COPY TO ANY MEETING, IF I'M NOT THERE JUST GIVE IT TO ONE OF THE OFFICERS AND I WILL GET IT.YOUR NEWSLETTER NEEDS YOUR SUPPORT!



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Letter from the President

It's hard to believe that we're already into October! Funny how time flies when you're having fun!

As I am writing this, I just had a call from our Librarian, Bob Haun. He called me from the Coronary Care unit of Lakewood Gen. Hospital, where he was waiting transportation by ambulance to University Hospital in Seattle, where he is to undergo tests to see what the problem is with his ticker. By the time you read this, you may know the outcome. All our prayers are with you and your wife, Bob.

Your library orders will be filled by one of our backup librarians until Bob is back on his feet and running full speed.

I am anxiously awaiting this coming weekend (last weekend by the time you get the newsletter), for the Western Washington edition of the T.I. Fair!

The featured speakers (C. Regena of Compute Magazine, Lou Phillips from Myarc, Craig Miller of Miller's Graphics, and many more should make this event very interesting.

I hope all our club members get a chance to attend to see what these people are doing to support the so called "Orphan". All of these people, and the many others who are still trying to make a living with our favorite computer, need all the support we can give them, as they are really turning some outstanding equipment and software.

Those people who say they need a "bigger" computer than the T.I. 99/4A may be only trying to convince themselves that they need to spend all of their hard-earned money for something that isn't really necessary.

T.I. Writer has a buffer capacity of 23,000 characters (about 4 1/3 pages). Your friend may laugh and say his has a capacity almost 5 times that. When he tells you this, ask him when the last time was that he wrote a 20 page letter! And that is using all 80 characters in the 66 lines on each page!

In reality, 4 1/3 pages is usually plenty for most correspondence, and if it isn't, just make up a format file that ties more than one file together at a time, and print your document as long as you want.

If you are using 2 DSDD disk drives, then you know that 720K is a considerable amount of disk space to have available for programs to load at the touch of a few keys.

True, we are limited in some areas. We don't have to pay exorbitant fees for our software (\$10 to \$50 compared to \$125 to \$395). Their machines don't talk and make music that sounds as good (alright, so we don't have Stereo, but they can't write their music as easy as we do either).

I think if we had the software and some of the hardware enhancements that we have now, available back when T.I. pulled out, they might never have pulled out of the market in the first place.

Oh well, so much for wishful thinking for now.

Till next month.....

Wally Dubberly



FROM THE LIBRARY DESK

IN MY LAST NEWS LETTER, I MANAGED TO GIVE EVERY ONE LOTS OF NOISE ABOUT 'DOING THEIR SHARE'. I WON'T REALLY BACK OFF OF MY COMMENTS, BUT I DID HEAR AN OPINION EXPRESSED THIS WEEK THAT HAS A LOT OF MERIT! THE GIST WAS THAT IF EVERYONE WAS GOING TO CATCH H--- ALL THE TIME, THEN THE CLUB WASN'T TOO ENJOYABLE! I THINK IT IS A VERY VALUABLE COMMENT AND WORTH CONSIDERATION. IN DEFENSE, I'LL SAY THAT WE NEED TO BE AWARE OF OUR RESPONSIBILITIES TO EACH OTHER TO MAKE THE CLUB WORK. SO... I PROMISE... NO MORE LECTURES... UNLESS WE GO TO SLEEP AGAIN!

I'VE PICKED UP SEVERAL COMMENTS ABOUT THE CLUB OFFICERS BEING 'UNAPPROACHABLE' FROM TIME TO TIME AND IF I'M EVER GUILTY, KICK ME HARD. THE ONLY REASON WE HAVE OFFICERS IS TO ORGANIZE THINGS THE WAY YOU WANT THEM.

THAT BRINGS UP ANOTHER SORE SUBJECT. WHAT WOULD YOU LIKE? WHAT DIRECTION WOULD YOU LIKE THE CLUB TO GO IN ITS MEETINGS AND DEMOS.? ARE YOU INTERESTED IN CLASSES? IF SO AT WHAT LEVEL? DO YOU WANT TO LEARN PROGRAMMING? ARE YOU INTERESTED IN LEARNING HOW TO EFFECTIVELY USE CERTAIN PROGRAMS? THESE THINGS ARE WHAT WE NEED TO KNOW TO HELP YOU GET WHAT YOU WANT FROM YOUR CLUB. I'LL ACT AS A CONTACT POINT IF YOU WISH, TELL ME WHAT YOU WISH AND I'LL GET THE WORD TO THE RIGHT PEOPLE. I KNOW I'M SOMETIMES BASHFUL ABOUT TELLING OTHER PEOPLE ABOUT WHAT I'D LIKE... I'M AFRAID THEY'LL DISCOVER HOW DUMB I REALLY AM!

HOW MANY OF YOU WOULD LIKE A SHORT COURSE IN TI/BA WRITER? IF SOME OF YOU ARE INTERESTED, I'LL TRY TO COVER SOME OF THE THINGS I'VE USED AND SOME OF THE ITEMS WANDA POUNDED INTO MY THICK SKULL IN HER EXCELLANT CLASS. I THOUGHT I WOULD COVER BASIC FUNCTIONS AND ENOUGH TO LET YOU USE IT WITH REASONABLE COMFORT. I'M PLANNING ON HAVING CLASSES INSTEAD OF DEMOS FOR SEVERAL MEETINGS.

REMINDER: ALL OF YOU THAT PAID YOUR DUES ON TIME, YOU CAN ORDER ANY PROGRAMS AT 1/2 PRICE THROUGH NOVEMBER. THAT IDEA HAS KEPT ME BUSY FILLING ORDERS, BUT I LIKE IT.

REMINDER: DONT FORGET THE TI FAIR IN SEATTLE. IT SHOULD BE VERY INTERESTING. WISH I COULD MAKE IT, BUT I FIGURE THAT YOU ALL WILL KEEP ME POSTED.

REMINDER: YOU CAN GET IN SOME/ALL OF YOUR CLUB TIME BY GIVING A TRAINING SESSION OR DEMO, WRITING AN ARTICLE OR ALL SORTS OF THINGS TO BENEFIT THE CLUB AS A GROUP. IT'S EASIER TO GET AHEAD OF THE SCHEDULE THAN TO CATCH UP.

BOB HAUN, 584-3938

Get Well Soon Bob

```
*****
* CHARACTER MERGE UTILITY *
*****
Typing in a program with
lots of CALL CHAR statements
in it? Use this program to
eliminate the need to type
in CALL CHARs, parentheses,
commas, or quotation marks.
Creates program lines in
MERGGE format file.
Required: Extended BASIC,
disk drive.
```

```
100 REM CHAR/CODER BY B.A. T
RAVER, 552 SEVILLE ST., PHIL
A., PA 19128
110 REM FOR FURTHER INFORMAT
ION, SEND S.A.S.E.
120 CALL CLEAR :: PRINT "CHA
R/CODER"
130 PRINT : "DIRECTIONS: ENT
ER DATA AS INDICATED FOR EA
CH LINE OF YOUR PROGRAMWHIC
H INCLUDES A CALL CHAR STATE
MENT."
140 PRINT : "UNLESS YOU INDIC
ATE OTHER-" : "WISE, LINE NUMB
ERING STARTS AT 100 AND
INCREMENTS BY 10 AUTOMATICAL
LY."
150 PRINT : "ALSO, UNLESS YOU
INDICATE OTHERWISE, CHARA
CTER NUMBERSARE INCREMENTED
BY 1 AUTO- MATICALLY." : :
160 DEF L$(L)=CHR$(INT(L/256
))&CHR$(L-256*INT(L/256))
170 DEF A199$(M$)=CHR$(199)&
CHR$(LEN(M$))&M$
180 DEF A200$(M$)=CHR$(200)&
CHR$(LEN(M$))&M$
190 L=100
200 OPEN #1:"DSK1.CHARACTERS
",VARIABLE 163
210 GOSUB 320
220 GOSUB 310
230 PRINT : "ANOTHER (Y/N)? "
;
240 CALL KEY(0,K,S):: IF S=0
THEN 240
250 IF K<>78 AND K<>89 THEN
240 ELSE PRINT CHR$(K) : :
260 IF K=89 THEN L=L+10 :: C
$=STR$(VAL(C$)+1):: GOTO 210
270 PRINT #1:CHR$(255)&CHR$(
255)
280 CLOSE #1
290 PRINT : "NOW ENTER THE FO
LLOWING TO SEE YOUR PROGRAM
. WHICH YOU CAN SAVE ANDMODI
FY LATER:" : : " NEW" : " MERG
E DSK1.CHARACTERS"
```

```
300 END
310 PRINT #1:L$(L)&CHR$(157)
&A200$("CHAR")&CHR$(183)&A20
0$(C$)&CHR$(179)&A199$(D$)&C
HR$(182)&CHR$(0):: RETURN
320 REM ACCEPT INPUT
330 PRINT "LINE:";L
340 ACCEPT AT(23,7)SIZE(-4):
L
350 PRINT : "CALL CHAR"
360 PRINT "CHAR NUMBER: ";C$
370 ACCEPT AT(23,14)SIZE(-3)
:C$
380 PRINT "CHAR STRING:"
390 ACCEPT AT(23,14):D$ :: R
ETURN
400 STOP
```

CONDENSED CODE: by Keith Koch

READ CAREFULLY: ENTER the following program and save with MERGE. Next MERGE program back to TI, then run, then list... Tricky huh?

```
1 OPEN #1:"DSK1.A",DISPLAY,
OUTPUT,VARIABLE 163
2 FOR I=0 TO 254
3 L=INT(I/256)
4 N=I-256*L
5 PRINT #1:CHR$(L)&CHR$(N)&
CHR$(I)&CHR$(0)
6 NEXT I
7 PRINT #1:CHR$(255)&CHR$(2
5)
8 CLOSE #1
9 STOP
```

THIS PROGRAM HAS VERY INTERESTING RESULTS;

GEMINI by SUNDISK SOFTWARE

THIS PROGRAM ALLOWS YOU TO QUICKLY SET A FEW OF THE MANY OPTIONS AVAILABLE ON YOUR GEMINI 10X PRINTER.

```
100 REM GEMINI 10X PRINTER
110 REM SUNDISK SOFTWARE, IN
C.
120 REM 1/84 by CRAIG
130 ESC#=CHR$(27)
140 OPEN #1:"PIO.CR"
150 CALL CLEAR::CALL SCREEN
4)
160 DISPLAY AT(2,2):"GEMINI
PRINTER SET-UP"
170 DISPLAY AT(3,2):"=====
====="
```

```
180 DISPLAY AT(6,1):" Option
s Are:"
190 DISPLAY AT(8,1):" 0) Exi
t Program"
200 DISPLAY AT(9,1):" 1) Def
ault Conditions"
210 DISPLAY AT(10,1):" 2) 8
LINES/INCH "
220 DISPLAY AT(11,1):" 3) AS
CII Italic Set"
230 DISPLAY AT(12,1):" 4) PI
CA Print Mode 10 CPI"
240 DISPLAY AT(13,1):" 5) EL
ITE Print Mode 12 CPI"
250 DISPLAY AT(14,1):" 6) Co
ndensed Print 17 CPI"
260 DISPLAY AT(15,1):" 7) En
larged Print Mode"
270 DISPLAY AT(16,1):" 8) Do
uble Strike Mode"
280 DISPLAY AT(17,1):" 9) Em
phasized Double Strike"
290 DISPLAY AT(19,1):" Which
Option Now?"
300 CALL KEY(0,ANS,ST):: IF
ST=0 THEN 300
310 IF ANS<48 OR ANS>57 THEN
300
320 ON ANS-47 GOSUB 360,380,
400,420,440,460,480,500,520
,540
330 DISPLAY AT(22,1):" DONE.
.." FOR DELAY=1 TO 100::NEXT
DELAY
340 DISPLAY AT(22,1):"
"
350 GOTO 300
360 GOTO 560
370 RETURN
380 PRINT #1:ESC$;"@"
390 RETURN
400 PRINT #1:ESC$;"0"
410 RETURN
420 PRINT #1:ESC$;"4"
430 RETURN
440 PRINT #1:ESC$;"B":"1"
450 RETURN
460 PRINT #1:ESC$;"B":"2"
470 RETURN
480 PRINT #1:ESC$;CHR$(15)
490 RETURN
500 PRINT #1:ESC$(87);CHR$(1
)
510 RETURN
520 PRINT #1:ESC$;"G"
530 RETURN
540 PRINT #1:ESC$;"E";ESC$;"
G"
550 RETURN
560 CLOSE #1
570 END
HAPPY COMPUTING,Ron Prewitt
```

BUY AND SELL

COMPUTER FOR SALE

A T I 99/4A COMPUTER WITH EXTENDED BASIC CARTRIDGE AND MANY SOFTWARE MODULES AND CASSETTE TAPE PROGRAMS. ASKING \$100.00 OR BEST OFFER. CALL DON HUNDVEN AT 474 2259 FOR MORE INFORMATION.

I HAVE BEEN DEVELOPING PROGRAMS TO BE USED BY THE BLIND AND I WOULD BE INTERESTED TO KNOW IF ANYONE ELSE HAS SOME PROGRAMS THAT COULD BE USED BY THE BLIND. MOST ALL PROGRAMS CAN BE PROGRAMED WITH SPEECH UNLESS

THE PROGRAM REQUIRES THE VISUAL VIEWING OF THE SCREEN. SOME OF THE PROGRAMS THAT I HAVE DEVELOPED OR REPROGRAMED ARE AS FOLLOWS;

1. TALKING CALCULATOR.
2. TALKING TELEPHONE BOOK.
3. TALKING WORD PROCESSOR.
4. TALKING OUTLINER.
5. TALKING CHECKBOOK.
6. TALKING NAME THAT NOTE.
7. TALKING MUSIC WRITE.
8. TALKING SPEECH GENERATOR.
9. TALKING SPEECH HELP.
10. TALKING SPEECH WORD.
11. TALKING JELLY BEANS.

THESE PROGRAMS FOR THE TI 99/4A COMPUTER REQUIRE THE TERMINAL EMULATOR II COMMAND MODULE AND THE SPEECH SYNTHESIZER. ALL THESE PROGRAMS ARE ON TI BASIC AND CAN BE USE WITH EITHER CASSETTE RECORDER OR DISK. IF ANYONE HAS DEVELOPED A PROGRAM FOR THE BLIND I WOULD LIKE TO BUY OR TRADE PROGRAMS. PLEASE CONTACT ME AT THE FOLLOWING ADDRESS;

DON HUNDVEN - 7349 SOUTH WILKESON - TACOMA, WA 98408 - PHONE (206) 474-2259

FOR SALE

SUPER SKETCH, Used for about Two hours, \$25.00 -- SIXTEEN HOME COMPUTER MAGAZINE PROGRAM TAPES, \$2.00 each or \$1.50 each if you buy all 16 tapes -- One GOLDEN VOYAGE ADVENTURE CASSETTE for \$5.00. See Art Daniels at the meetings or call me at 564-3434 for more information.

FOR SALE: AXIOM GP-100 TI
PRINTER WITH DIRECT CONNECT

RS232 INTERFACE TO CONSOLE
SIDEPORT-\$75.00, TI-WRITER
MANUAL-\$10.00, PARALLEL

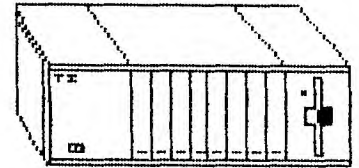
PRINTER CABLE-\$8.00, RON
PREWITT, 474-7310

MEETINGS ARE THE 1st and 3rd THURSDAYS
South End Pool Building -- 402 E. 56th Street -- Tacoma, WA



THE CARE AND FEEDING OF DISK DRIVES

By JMS



Listed below are a few facts and common sense items regarding disks and disk drives. Some you may have thought of yourself, some you may have learned the hard way, and some may be brand new to you.

A. If you don't have a disk in your disk drive, don't close the disk door or latch. This can cause the read heads (if double-sided drive) to possibly chip, which in turn could cause your favorite disk to be eaten (or scratched or destroyed). The same is true of single-sided drives. The felt pad that rests against the drive head can scratch the head leading to possible diskette damage. When not in use, leave the drive door open. However, if you are transporting the system, be sure to insert an old diskette or the original cardboard insert shipped with the disk drive and close the door. This will reduce the likelihood of damage to the heads.

B. Be careful when inserting the diskette into the drive. Be certain the disk is fully inserted. Attempting to close the door with the disk partially inserted can mash the disk, causing loss of data or errors in reading. Diskettes with the hub rings can help center the disk properly as the door is closed. **Never** force the door closed. Something is wrong (you never had to force it before, did you?). Not only can forcing the door closed damage the diskette, it can also break the disk drive.

C. The quality of diskette is determined by many factors, but one of the most important is the size of the metal oxide chips on the diskette coating. The finer these chips, the greater sensitivity, the lower the "noise" level, and the smoother the surface (less head wear). Other important factors to consider are the binder material (the stuff that holds the metal oxide coating to the diskette), the quality of the lining material in the jacket, and the evenness of the lubricating coating (again, less head wear). High quality diskette does not necessarily mean high price. There are many mail order outlets selling quality diskettes for 50% or so less than name brand prices. However, avoid "cheap" diskettes. I won't mention any brand names, but if you don't know anything about diskettes, ask others what they have used and which types have proved to be high quality but still good buys.

D. Of course, you know that diskettes and magnets don't mix, but have you considered the many sources of magnetic fields that exist around your computer area? Some of the overlooked sources of magnetic fields include the telephone, calculators, the TV or monitor, even the vacuum cleaner (all high current motors have a

strong magnetic field). Don't forget all the magnets (obvious and not so obvious) including those cute little magnetic memo holders, your "stick on" CB antenna, scissors, or any steel tools, screwdrivers, pliers, etc. (You'll be surprised how many of your hand tools have become magnetized.)

E. If you have been getting garbage or messed up data from time to time for no obvious reason, the culprit could be your monitor (or TV). Some units generate enough RF (radio frequency) interference to disrupt the disk drive logic or the data on the diskette. Does your monitor sit on top of your PEB? (Mine used too, but I moved it for a different reason—the PEB power supply transformer was messing up the color on my monitor.) Want to check for sources of RF interference? You probably have the test gear in your home—a small portable AM radio! Tune the radio to an empty part of the band (no station broadcasting) and run the radio around the computer and monitor. Listen for static and noise. Any place there is loud static or noise is a high source of RF. Take note of these areas. (While you are exploring, place your little hand-held calculator next to the radio and perform some math routines. You'll "hear" the calculator thinking! These signals are too weak to harm your disks, so you don't need to worry.)

F. Another source of garbage is misaligned disk drive heads. Trouble reading the data on a diskette used in more than one disk drive is a symptom of alignment problems. The data is read OK in one, but when moved to another drive, problems occur. You'll have to do additional checking to determine which drive has the problem. If you have a diskette that has a commercial program on it (any "store bought" program) use it to see which drive is not reading correctly. In all likelihood, that will be the drive with the alignment problem.

Most of what has been said can apply to cassette tapes. In either case, use good judgement and common sense and you'll have very few data problems.

(rePrinted from BAYOU BYTE, 8/86)

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TIPS FROM THE TIGERCUB

#38

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* * * * *
* Tips from the Tigercub *
* Vol. 3 is now ready. *
* Another 62 programs, *
* routines, tips, tricks. *
* from Nos. 25 thru 32. *
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* two Tips disks \$27 or *
* all 3 for \$35 postpaid. *
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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 Menuloder, a tutorial on using subprograms, and 5 pages of documentation with an example of the use

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For descriptions of these send a dollar for my catalog!

I have discovered a rare bug in the 28-Column Converter, published in Tips #18, which will cause an I/O 25 ERROR if the very last line of the program being converted happens to have exactly 80 characters. You can fix it by adding a line -
215 IF EOF(1)=1 THEN 260

There is also a rare bug in the SIDEWAYS subroutine on my Nuts & Bolts #2 disk, which prevents turning some redefined character sets sideways. If you are one of those who BOUGHT that disk from me, you can fix it by

changing the L=LEN(B\$) in line 21639 to L=64.

I was in too much of a hurry to go fishing when I put the last couple of Tips together. In the Gordian Knot in Tips #35, I left out some essential instructions. Please add -
131 DISPLAY AT(11,1):" When you cross your track,": "press D to go over, U to go": "under, C to go across."

To make that fit, you will have to change the DISPLAY AT in line 130 to (8,1), in line 140 to (15,1) and in line 150 to (20,1), also the ACCEPT At in 160 to (20,11). And this change will prevent a lockup when you reach a border -

```
200 D=D-1 :: IF ABS(D-D2)=2
OR R+(D=1)=0 OR R-(D=3)=25 D
R C+(D=4)=2 OR C-(D=2)=31 TH
EN 180 :: GOSUB 510 :: IF D<
>D2 THEN GOSUB 450
```

I wrote the dulcimer music in Tips #36 in Basic, but I forgot to test it in Basic. It actually runs much better in Extended Basic, but will run fairly well in Basic if you delete the delays in lines 280 and 300.

If you liked the ESCHER ART in Tips #37, these modifications will improve it considerably -

```
110 DISPLAY AT(12,1):"Press
-": " Q for new pattern": "
B to change background": " F
to change foreground": " R to
reverse colors": " : "Any ke
y to start"
280 A=INT(6*RND+3):: H=INT(2
4/A):: RX=24-H*A :: HC=INT(2
8/A):: CX=28-HC*A :: W=ABS(H
C/2=INT(HC/2))-(RX>0):: DIM
M(8,8):: FOR P=1 TO A
330 IF K<>66 THEN 346
340 BC=BC+1+(BC=16)*15 :: IF
BC=F THEN 340 ELSE 347
346 IF K<>70 THEN 360 :: F=F
1+(F=16)*15 :: IF F=BC THEN
346
347 FOR S=7 TO 14 :: CALL CO
LOR(S,F,BC):: NEXT S :: GOTO
310
```

```

350 ! **DELETED LINE **
360 IF K<>ASC("R")THEN 310 :
: T=F :: F=BC :: BC=T :: GOT
O 347
600 GOSUB 900 :: FOR T=1 TO
A :: DISPLAY AT(R-1+T,C):M$(
V,T):: NEXT T :: NEXT C
601 IF CX>0 THEN AA=A :: GOS
UB 800
605 GOSUB 1000 :: NEXT R
606 IF RX=0 THEN 610
607 GOSUB 1000 :: FOR C=1 TO
A*HC STEP A :: GOSUB 900 ::
FOR T=1 TO RX :: DISPLAY AT
(R-1+T,C):M$(V,T):: NEXT T :
: NEXT C
608 IF CX>0 THEN AA=RX :: GO
SUB 800
800 GOSUB 900 :: FOR T=1 TO
AA :: DISPLAY AT(R-1+T,C):SE
G$(M$(V,T),1,CX):: NEXT T :
: RETURN
900 V=V+1+(V=4)*4 :: RETURN
1000 V=V+W :: V=V+(V>4)*4 ::
RETURN

```

I had a letter from a teacher who was using the PRK module to keep student grades, and wanted to know how to average them. It can be done, but is so impractical that I wrote this program. While I was at it, I speeded up the loading and saving to cassette greatly by converting the grades to an ASCII string and combine the student's name and all grades into one record.

```

100 DIM N$(50),T(50,20)
110 CALL CLEAR
120 PRINT "      TEACHER'S
HELPER": : : :
130 REM - by Jim Peterson
140 PRINT "(1)CREATE A FILE?
": "(2)ADD TO FILE?": "(3)LOAD
A FILE?": "(4)SAVE A FILE?":
"(5)PRINT A FILE?"
150 PRINT "(6)CORRECT A FILE
?": "(7)COMPUTE AVERAGES?": "(
8)QUIT?"
160 CALL KEY(0,K,S)
170 IF (S=0)+(K<49)+(K>56)TH
EN 160
180 ON K-48 GOTO 190,250,610
,800,380,990,1120,1510
190 X=0
200 INPUT "SUBJECT?  ":S$
210 GOSUB 1370
220 INPUT "TEST #?  ":N

```

```

230 GOSUB 1440
240 GOTO 140
250 PRINT :;:"(1)ADD NAMES?"
:"(2)ADD GRADES?"
260 CALL KEY(0,K,S)
270 IF (S=0)+(K<49)+(K>50)TH
EN 260
280 ON K-48 GOTO 290,310
290 GOSUB 1370
300 GOTO 140
310 INPUT "TEST #?  ":Q
320 IF T(1,Q)=0 THEN 350
330 PRINT :;:"TEST #";STR$(Q
);" ALREADY RECORDED"
340 GOTO 140
350 N=Q
360 GOSUB 1440
370 GOTO 140
380 CALL CLEAR
390 PRINT "OUTPUT TO": "(1)SC
REEN?": "(2)PRINTER?"
400 CALL KEY(0,K,S)
410 IF (S=0)+(K<49)+(K>50)TH
EN 400
420 IF K=49 THEN 460
430 INPUT "PRINTER DESIGNATI
ON?  ":P$
440 OPEN #2:P$
450 F@=2
460 PRINT "PRESS ANY KEY TO
PAUSE": :
470 PRINT #F@:S$: :
480 FOR J=1 TO X
490 PRINT #F@:"":N$(J)&" ";T
AB(10);
500 FOR K=1 TO HN
510 PRINT #F@:T(J,K);
520 NEXT K
530 CALL KEY(0,K,S)
540 IF S<>0 THEN 530
550 NEXT J
560 PRINT #F@
570 IF F@=0 THEN 140
580 F@=0
590 CLOSE #2
600 GOTO 140
610 PRINT :;:"(1)CASSETTE?": "
(2)DISK?"
620 CALL KEY(0,K,S)
630 IF (S=0)+(K<49)+(K>50)TH
EN 620
640 ON K-48 GOTO 650,670
650 OPEN #2:"CS1",INPUT ,FIX
ED
660 GOTO 690
670 INPUT "FILENAME? DSK":F$
680 OPEN #2:"DSK"&F$,INPUT
690 INPUT #2:X,HN,S$
700 FOR J=1 TO X
710 INPUT #2:K$
720 N$(J)=SEG$(K$,1,POS(K$,C
HR$(255),1)-1)

```

```

730 K$=SEG$(K$,POS(K$,CHR$(2
55),1)+1,255)
740 FOR K=1 TO HN
750 T(J,K)=ASC(SEG$(K$,K,1))
-50
760 NEXT K
770 NEXT J
780 CLOSE #2
790 GOTO 140
800 PRINT :;:"(1)CASSETTE?": "
(2)DISK?"
810 CALL KEY(0,K,S)
820 IF (S=0)+(K<49)+(K>50)TH
EN 810
830 ON K-48 GOTO 840,860
840 OPEN #2:"CS1",OUTPUT,FIX
ED
850 GOTO 880
860 INPUT "FILENAME? DSK":F$
870 OPEN #2:"DSK"&F$,OUTPUT
880 PRINT #2:X:HN:S$
890 FOR J=1 TO X
900 K$=""
910 FOR K=1 TO HN
920 K$=K$&CHR$(T(J,K)+50)
930 NEXT K
940 PRINT #2:N$(J)&CHR$(255)
&K$
950 K$=""
960 NEXT J
970 CLOSE #2
980 GOTO 140
990 CALL CLEAR
1000 INPUT "STUDENT'S NAME?
":Q$
1010 FOR J=1 TO X
1020 IF N$(J)=Q$ THEN 1060
1030 NEXT J
1040 PRINT :;:"NAME NOT FOUN
D": :
1050 GOTO 140
1060 INPUT "CORRECT WHICH TE
ST? (0 TO QUIT) ":C
1070 IF C=0 THEN 1110
1080 PRINT :;:N$(J);"'S TEST
#";STR$(T(J,C)): :
1090 INPUT "CORRECT TO?  ":T(
J,C)
1100 GOTO 1060
1110 GOTO 140
1120 CALL CLEAR
1130 PRINT "OUTPUT TO": "(1)S
CREEN?": "(2)PRINTER?"
1140 CALL KEY(0,K,S)
1150 IF (S=0)+(K<49)+(K>50)T
HEN 1140
1160 IF K=49 THEN 1200
1170 INPUT "PRINTER DESIGNAT
ION?  ":P$
1180 OPEN #2:P$
1190 F@=2
1200 PRINT #F@:S$

```

```

1210 FOR J=1 TO X
1220 PRINT #F@:N$(J);" AVERA
GE ";
1230 FOR K=1 TO HN
1240 TT=TT+T(J,K)
1250 NEXT K
1260 AV=TT/HN
1270 TAV=TAV+AV
1280 PRINT #F@:AV
1290 TT=0
1300 NEXT J
1310 PRINT #F@:"CLASS AVERAG
E ";TAV/X
1320 TAV=0
1330 IF F@=0 THEN 1360
1340 F@=0
1350 CLOSE #2
1360 GOTO 140
1370 PRINT ;;:"STUDENT'S NAM
ES - ":"type END when finish
ed": :
1380 X=X+1
1390 M$="NAME #"&STR$(X)&" "
1400 INPUT M$:N$(X)
1410 IF N$(X)<>"END" THEN 13
80
1420 X=X-1
1430 RETURN
1440 FOR J=1 TO X
1450 M$=N$(J)&"'S GRADE? "
1460 INPUT M$:T(J,N)
1470 NEXT J
1480 IF N<HN THEN 240
1490 HN=N
1500 RETURN
1510 END

```

The reason that 50 is added to the value in line 920, before saving, and subtracted again in line 750 after loading, is because of a quirk of the computer that I don't recall seeing in print anywhere. Did you know that INPUT will read a string beginning with ASCII 0, 2, 4, 7, 10, 12, 14, 18, 20, 26, 27, 31, 32, or 44 as a null string (a blank), and will drop these characters at the end of a string? And ASCII 32 will be dropped at the beginning or end of a string. And ASCII 0 within a string, or ASCII 34 anywhere, will crash, while ASCII 44 within a string will lose the rest of the string. I should have known what ASCII 0, 32 (the space), 34 (quotes) and 44 (comma) would do, but why the others?

LINPUT will accept anything, of course, but I wanted to keep this in BASIC for the teachers who are struggling along without the XBasic module or disk drive.

Chick De Marti published

in LA 99ers TOPICS the surprising discovery that PRINT USING and DISPLAY USING can read the IMAGE format from a variable, array or string!

Which led me to some fooling around -
100 !PRINT USING DEMO by Jim Peterson, based on a discovery by Chick De Marti
110 CALL CLEAR :: RANDOMIZE
:: CALL SCREEN(5):: FOR S=2 TO 14 :: CALL COLOR(S,S,S):: NEXT S
120 N=INT(13*RND+1):: C\$=CHR\$(8*N+32-(N=4)*11)
130 FOR J=N TO 12 :: A\$=RPT\$(" ",J)&"#&RPT\$(" ",26-J*2)&"#"
:: PRINT USING A\$:C\$,C\$
:: NEXT J
140 FOR J=12 TO N STEP -1 :: A\$=RPT\$(" ",J)&"#&RPT\$(" ",26-J*2)&"#"
:: PRINT USING A\$:C\$,C\$
:: NEXT J :: GOTO 120

Here is one last Tigercub challenge. What is the longest possible one-liner? And what is the longest possible one-liner that actually does something?

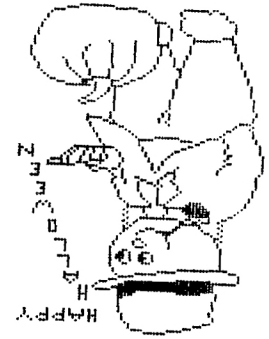
MEMORY FULL

Jim Peterson

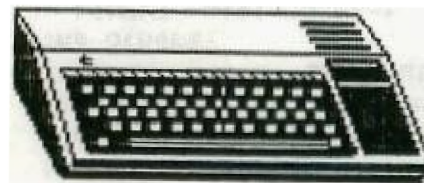


VOLUNTEER LIST

- Computer Room on Saturdays
- Keying in and Writing Articles for Newsletter
- Helping on Committees
- Demo Programs at Meetings
- Help at Special Fund Raisers
- and the list goes on....



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