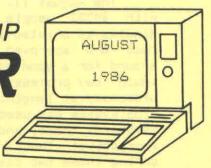
CEDAR VALLEY 99'ER USER GROUP

NEWSLETTER



NEWSLETTER TOPICS

- 1. Next Meeting Notes
- 2. Future Meeting Dates
- 3. Minutes From Aug Meeting
- 4.
- 5. For Sale/Wanted
- 6. The Adventure Store
- 7. TI Calculators
- 8. Newsletter
- 9. Books
- 10. Tips From The Tigercub
- 11. Why Gram Kracker

****NEXT MEETING****

Monday, Sep. 8, 7:00 PM at the JA building. 330 Collins Road NE. DEMONSTRATION: DOOM OF MONDULAR We will have a demonstration of Dave Reinhart's purchase noted later in the newsletter, and an assembly character generator.

-see you there.

****FUTURE MEETING DATES****

Flease mark the following dates on your calendar for future meetings: September 8. October 13. November 10.

****CV99'er UG OFFICERS****

President: Jim Green
288 Windsor Drive NE
Cedar Rapids, Iowa 52402
377-4073 (Home) or
395-1898 (Office)

Vice President: Bruce Winter 702 Fernwood Dr. NE Cedar Rapids, Iowa 52402 393-0610

Secretary: Gary Bishop 860 Westview Dr. Marion, Iowa 52302 377-9574

Treasurer: Ed Hayek 3864 Lost Valley Rd. SE Cedar Rapids, Iowa 52403 366-4793

Chairpersons:

Program: Dave Dalton 920 Hillview Dr. Marion, Iowa 52302 377-1715

Publicity: Faul Mortensen 3179 Country Park Dr. Toddville, Iowa 393-6022

Education: James Trainor 6013 Langdon Ave. SW Cedar Rapids, Iowa 396-2846

****MINUTES FROM AUG MEETING****

The August 11, 1986 meeting was called to order at 7:03 PM by Pres. Jim Green. with 40322 people present. New members were introduced. Welcome to Steve Paxton. Minutes as printed in the previous newsletter were approved. A Treasurer's report was read and approved. Club color monitor purchase has not been made yet, still looking around for a good deal, or an employee discount from Program Chairman Dave Dalton, a touch key professional at Target. Contents of the newsletter were discussed. Hamfest discussed at length. Reports of happenings at the hamfest and opinions were made. The club system was used at the Five Seasons Center. Mike Bonifazi had his MIDI controlled keyboards there, and set-up and used them as demonstrated at a recent meeting. impressive! Thank You Mike. Thanks to all those volunteers who helped staff the table during those two days. Mention was made of the short notice for lockup at the Center at 5 PM. Also, our club was left off the fliers handed out at the dooor under the listing of sponsoring clubs. 2 new keyboards - IBM type - are available, but prices have increased. If you cite the previous advertisements, the old price will be honored until the end of Sept.. For details, see Jim Green. Software is in from the Oklahoma Need help reviewing it all, contact Bruce Winter. Only a small part of it is SSSD, most of it requires DSDD or better. Library costs discussed. Freeware is free from our library, rest is \$1.00 per program. IUG software recently acquired will fall under the \$1.00 per program area, so if you are one of the reviewers, you can sneak a copy of what you have as part of the spoils of the toil for reviewing it all. Discussion of collecting the author's portion of Freeware costs, and then forwarding to the author. This would be done before a program is released from the freeware portion of the library. Not much support for this due to the fact if a person doesn't like or use the software, a refund would be involved. It was felt that the concept of freeware was to try it first, and pay if you like it and then use it. All members were strongly urged to fire off a check to the freeware authors for the programs you feel useful in your possession. Addendum to the software library is available, see Jim Green.

Horse trading: Dave Reinhart had TE-II for \$10, many games \$2 to \$5 each, Cor Comp sidecar dual RS-232 and parallel interface, with PS, \$90, Volksmodem and cable, \$50, or offer anything; Dave Dalton had a disk container \$7, carbonless copy printer paper \$? per roll, external stand alone SSSD Percom Data disk drive with internal controller and power supply, \$210 or offer; Jerry Cerny has a spare silver/black console \$35; Ed Edwards has two silver/black consoles, one complete \$35, one console only, no accessories, \$25.

The program was on TI writer type loaders, with BAwriter and Funlwriter compared. Printer discussions followed, with the differences between how printers handle the CR/LF problem, and how to use PIO.CR and PIO.LF in programs. New Horizons RAM disk assembled/kit was discussed. A good price on a bare board can be had if we can get an order of 5 or more together. This is a board that fits into the PE box and acts exactly; like a disk drive, with continuous battery backup. See Jerry Canady if interested. Finished cost should be about \$45 less than the assembled version if you can handle putting togerher a kit and can find your own parts.

Door prize was won by Bill Gonda, and he chose 4A Talk. Second prize was won by his wife Phyllis, and she receives her choice of 4 programs from the club library, including media.

A disk labeling and printing program was demonstrated by Ed Edwards, and many examples of what the program can do were passed around the room.

A cassette port modem connection and software are in the works, see Dave Dalton for details. It is rumored that an autodial feature is in process, with a total cost of about \$12.

Meeting adjourned 8:44 PM. Submitted by Gary D. Bishop, Secretary.

FOR SALE/WANTED:

PE Box. Drive. Controller card and cables: \$175. 2 TI Writers (New): \$20 ea.. Household Budget Management, TI Trek; \$5 ea.. William Gonda (319) 373-1945.

Percom standalone Controller and Tandon SSSD drive; \$210. Atarisoft Defender: \$5. Dave Dalton (319) 377-1715.

For Sale: Early Learning Fun (M) \$5. Adventure module with Pirates Adventure (C) \$8. Bruce Winter.

BUY/SELL/TRADE IDEA:

Over the past couple of years I have accumulated many items which are nolonger any real use to me. So I have come up with a list of prices for these items. I realized that there are probably lots of you who have things in your possession that you'd like to get off your hands, but you never got around to making a price list. Well here's your chance!

I'll agree to trade any of my items for those of yours which strike my interest. No matter the value! The person with the lower priced item will pay the other the difference (figured by agreeing on the value of your product).

So here are two lists. One with the prices of the products I'm selling and one of some of the things I'm interested in.

Wanted: any Extended Basic, Speech Synthesizer, Logo II, Action & Adventure games, copy & debugger programs, Cartridge Expander, Editor Assembler, MBX system, Super Sketch, More.

Sell/Trade: Tombstone City, Super Demon Attack, Car Wars/(\$2 ea.); Volksmodem(with cable)/\$50, Terminal Emulator II/\$10, Cor Comp expansion box(2 RS232,1' parallel)/\$90, or best offer; Emerson data recorder/\$8; cassette cable, Pirates Adventure, Savage Island I&II/\$1.50 ea; Disk storage case (holds 35)/\$2.50; Congo Bongo, Defender/\$5 ea; Teach yourself Extended Basic/\$2: Small cooling fan/\$1: Sylvania black & white ty(great picture)/\$50.

-Dave Reinhart (319)377-0661.

If you wish to have extension cables made up please contact Jerry Canady at 377-9382 or 395-2494 or one of the officers. State the length you need and I will try to have it at the meeting.

For Sale: Early Learning Fun (M) \$5, Adventure module with Pirates Adventure (C) \$8. Bruce Winter.

Wanted: Unwanted/broken modules and misc hardware for hardware hacking use, also Zero Zap, Statistics. Jerry Canady.

For Sale: Silver console/speach/recorder and cable/joy sticks; Ext. Basic, TEII, Blasto Tombstone City, Car Wars, Alpiner, Chisholm Trail, The Attack, Farsec, Football, Household Budget Management, 41 programs on tape, 12 blank tapes (22 total), 25 Issues of 99er magazine. Triton spring catalog price \$300+, all for \$125. Richard C. Scheit, Box 277, West Branch. Iowa 52358, (319) 643-2525.

THE ADVENTURE STORE:

After I bought Doom of Mondular on disk from Tenex I received a catalog from the company that produces it, Symbiotech Inc..

They don't offer quite as much as Tenex but their prices are much better. For example, they offer Doom of Mondular, which I purchased for \$16.95, for \$7.95. They also carry ; hardware and literature for the TI, some of which when their stock runs out, that item will be terminated from their catalog.

I'd also like to add that their service is also good. I ordered a disk from them and it took only four days after sending in the order to receive it.

So I'd suggest that you get on their mailing list quickly. Write to: Symbiotech Inc., PO Box 320, Roscoe, Ill 61073.

-Dave Reinhart.

editors note; we have all had experiences about price and service so please relate them. Thanks Dave!

TI CALCULATORS:

If you happen to have a TI calcultor that has develloped switch bounce (stutters on one stroke) thus adding \$1000000000 which is beyond your budget. TI may help. Call 1-800-TI-CARES and explain your problem and model they will quote a replacement cost. For obsolete models the price was \$5.00 +s/h&tax. This may not be worthwhile for cheap models. For non-obsolete versions I believe the cost is postage and insurance to return the defective calculator after your replacement is received. Very reasonable! If you have a question give them a call. This is the same number to use if you need a TI Writer manual, mine arrived, the manual was provided as a service, postage and handling is \$3.00.

NEWSLETTER:

I will be attempting to provide some different styles of print on at least a portion of the newsletter during the coming months (assuming more time is available). If you see a style that pleases or dismays you, Please let me know. I assume there is a reason the President keeps noting multiple collumn programs and print formats with my name? Didn't think I noticed did you Jim!

BOOKS:

Several books have received reviews or were noted in various newsletters.

One is a book entitled "Multiplan Made Easy" by Walter A. Ettlin, it is written for IBM DOS but was noted as an excellent tutorial for the TI implementation of Multiplan. I spotted it at Waldens in Westdale for \$14.95.

Apparently Chiltons (the auto manual folks) have one entitled "Financial Analysis on TI computers. Chilton Book Co., Radnor, PA. 1-800-345-1214

TI 99-4/A wiring diagrams from Sams and Co., Have you seen it Leroy?

TIPS FROM THE TIGERCUB

#36

Copyright 1986

TIGERCUB SOFTWARE 156 Collingwood Ave. Columbus, OH 43213

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

Over 138 original programs in Basic and Extended Basic, available on casette or disk, only \$3.88 each plus \$1.58 per order for PPM. Entertainment, education, programmer's utilities.

Descriptive catalog \$1.88, deductable from your first order.

Tips from The Tigercub, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 5% original programs and files, just \$15 postpaid.

Tips from the Tigercub Vol. 2, another diskfull, complete contents of Nos. 15 through 24, over 6% files and programs, also just \$15 postpaid.

- * Vol. 3 is now ready. * Another 62 programs.
- # routines, tips, tricks. #
- # Also \$15 postpaid. Any #
- # two Tips disks \$27 or
- all 3 for \$35 postpaid.
 all 4 f

Nuts & Bolts (No. 1), a full disk of 188 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. All for just \$19.95 postpaid.

Nuts & Bolts No. 2, another full disk of 188 utility subprograms in merge format, all new and fully compatible with the last, and with 18 pages of documentation and examples. Also \$19.95 postpaid, or both Nuts Bolts disks for \$37 postpaid.

Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 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 — my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

TIGERCUB'S BEST, PROGRAM-TUTOR, PROGRAMMER'S UTILI-TIES. BRAIN GAMES. BRAIN TEASERS. BRAIN BUSTERS! . MANEUVERING GAMES, ACTION REFLEX AND CONCENTRATION. TWO-PLAYER GAMES, KID'S GAMES. MORE GAMES. WORD GAMES, ELEMENTARY MATH, MID-DLE/HIGH SCHOOL MATH, VOCAB-ULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

For descriptions of these send a dollar for my catalog!

Some old business to take care of Tom Wible (? - handwritten

Tom Wible (? - handwritten signature), in the MANNERS NEWSLETTER for April, points out that I am all wrong in my comments about updating a FIXED SEQUENTIAL file. There is no such thing as a fixed sequential or fixed relative file, only fixed files accessed sequentially or randomly (relative). Sequential and relative are access modes, not file attributes. There is no

reason to open a fixed file in anything other than RELATIVE mode, because if you do not specify the REC clause in your INPUT or PRINT, the computer defaults to sequential processing.

In one paragraph, that gentleman told me something about files I had'nt learned from the TI manuals and from the 2888+ newsletters on my shelf. File handling is apparently easy understand for those who have had formal computer training, but it is a frustrating mystery to those of us who try to learn by hacking it. Won't somebody please write a series of articles. somewhere, plain, non-computerese English?

And here is the last word on printing lines of more than 88 characters out of the TI-Writer Formatter, by W. Stewart Ash in a MANNERS newsletter of May-June 1986. It is only necessary to use the .FI command, and to set the right margin to the length you want, for example .FI;RM 128 for lines of 128 characters; and then use .TL or CTRL U commands to select a type font which will fit that many characters on a line (136 or 132 in condensed, depending on your printer: 96 in elite).

Here's a new way to make music, for you Basic-only users, music programmers and country music fans.

199 CALL CLEAR

119 PRINT " WILDWOOD FL OWER": :: " on the hammered dulcimer": :: ::: ::

by Jim Peterson*

128 DIM S(26) 138 F=262

148 FOR N=1 TO 25

158 S(N)=INT(F±1.859463894^(N-1))

169 NEXT N 178 READ N 188 C=S(N)
198 D=S(N)
288 CALL SOUND(-358,S(N),8)
218 RESTORE 358
229 FOR J=1 TO 63
238 GOSUB 268
248 NEXT J
259 GOTO 288
268 READ N
278 CALL SOUND(-358,S(N),8)
288 X=1^188
298 CALL SOUND(-358,S(N),8,C)

,9)
388 X=1^188
318 CALL SDUND(-358,S(N),8,C
,9,D,19)

328 D=C 338 C=S(N) 348 RETURN

358 DATA 5,6,8,8,18,13,5,5,6,5,3,3,5,3,1,1

368 DATA 5,6,8,8,18,13,5,5,6,5,3,3,5,3,1,1
378 DATA 8,13,17,17,17,15,13

,13,8,8,18,18,13,18,8,8 388 DATA 1,1,1,3,5,5,8,5,3,3 ,5,3,1,1,1

Lines 128-168 set up a scale of two octaves, beginning with the frequency in line 138 - to change the key, just change that frequency. Lines 178-198 set up the initial values, line 288 prevents a pause while data is being restored. Then the routine reads the data and plays the music.

Note the dumy calculation in lines 28% and 36%, which does nothing but create a brief pause while the value of X is computed. This is a good method for a delay because it can be adjusted so exactly by changing the exponent, but use a value of 1 to avoid a numeric overflow.

To write your own music by this method, just list the notes of a 2-octave scale from your starting frequency C C* D Ef E F F* 6 - etc. and number them 1 to 25.

Then, list the notes of your song by their number in the DATA statements. For a longer note, list it twice or more. Change the TO

value in line 220 to your total number of notes, and RUN!

Here's one just to doodle around with. You can create a 3-dimensional maze, save it to tape or disk, or erase it and watch the computer draw it again.

128 DISPLAY AT(3,7): "GORDIAN KNOT": : :TAB(12); "by Jim P eterson"

13# DISPLAY AT(9,1): " Use ar row keys to create a": "3-dim ensional maze."

148 DISPLAY AT(12,1): "You m ay at any time press": "Q to clear the screen, or P": "to save a manually created": "sc reen."

158 T=1 :: DISPLAY AT(17,1):
"Choose - ":" (1) Manual":"
(2) Automatic":" (3) Retrace
":" (4) Load"

16# ACCEPT AT(17,11) VALIDATE ("1234") SIZE(1) BEEP: 0 :: ON 0 60T0 178,228,298,4##

179 60SUB 448

188 CALL KEY(3,K,ST):: IF ST =8 THEN 188 ELSE D=POS("EDXS QP",CHR\$(K),1)+1 :: ON D GOT O 188,288,288,288,288,198,36

198 CALL CLEAR :: 60TD 158 288 D=D-1 :: IF ABS(D-D2)=2 THEN 188 :: 60SUB 518 :: IF D<>D2 THEN 60SUB 458

210 GOSUB 490 :: GOSUB 520 : : GOTO 180

228 60SUB 448 :: RANDOMIZE 238 D=D+1+(D=4)*4 :: CALL KE Y(8,K,ST):: IF ST=8 THEN 258 248 IF K=88 THEN 368 ELSE IF K=81 THEN CALL CLEAR :: 60T

25# T=INT(4#RND+2)#2-INT(2#R

268 FOR J=1 TO T :: IF D<>D2
THEN GOSUB 458

278 60SUB 498 :: CH=128-(D=1)-(D=3):: CALL 6CHAR(R,C,6):

: IF G<>32 THEN IF INT(2*RND +1)<>1 THEN CH=6

288 60SUB 538 :: NEXT J :: 6 0TO 238

298 IF LEN(K\$(1))=8 THEN DIS PLAY AT(24,1):"CAN'T DO THAT ":: 60TO 168

3## CALL CLEAR :: 60SUB 44# :: FOR J=1 TO T :: FOR JJ=1 TO LEN(K\$(T)):: D=POS("EDXS" .SE6\$(K\$(T),JJ.1).1)

318 IF D=8 THEN 358 :: IF D< >D2 THEN GOSUB 458

328 60SUB 498 :: CH=128-(D=1)-(D=3):: CALL GCHAR(R,C,6): : IF 6=32 THEN 60SUB 538 :: 60TO 358

338 K=ASC(SEG\$(K\$(T),JJ+1,1)
):: IF K<>67 AND K<>79 AND K
<>85 THEN JJ=JJ+1 :: 60T0 33

348 GOSUB 488 :: GOSUB 538 358 NEXT JJ :: NEXT J :: GOT O 168

360 IF LEN(K\$(1))>0 THEN 378 :: DISPLAY AT(12,1)ERASE AL L:"CAN'T DO THAT!" :: GOTO 1

378 DISPLAY AT(12,1) ERASE AL
L: "Save to - ":" (1) Cassette
":" (2) Disk" :: ACCEPT AT(12
,11) VALIDATE("12") SIZE(1):S
:: IF S=1 THEN OPEN #1: "CS1"
,INTERNAL, OUTPUT, FIXED 192 :
: GOTO 398

388 DISPLAY AT(16,1): "Filena me DSK" :: ACCEPT AT(16,13); F\$:: OPEN #1: "DSK"&F\$; INTER NAL,FIXED 192, OUTPUT

390 PRINT #1:T :: FOR J=1 TO
T :: PRINT #1:K\$(J):: K\$(J)
="" :: NEXT J :: CLOSE #1 ::
60TD 150

488 DISPLAY AT(12,1) ERASE AL L: "Load from -":" (1) Cassett e":" (2) Disk" :: ACCEPT AT(1 2,13) VALIDATE("12") SIZE(1) BE EP:L :: IF L=1 THEN OPEN #1: "CS1", INTERNAL, FIXED 192, INP UT :: 60TO 428

418 DISPLAY AT(16,1): "Filena me? DSK" :: ACCEPT AT(16,14) BEEP:F\$:: OPEN #1: "DSK"&F\$, INTERNAL,FIXED 192,INPUT

428 INPUT \$1:T :: FOR J=1 TO
T :: INPUT \$1:K\$(J):: NEXT
J :: CLOSE \$1 :: 60T0 388
438 CLOSE \$1 :: 60T0 388

438 CLOSE #1 :: 60T0 388 448 CALL CLEAR :: CALL COLOR (13,5,11):: R,R2=12 :: C,C2= 14 :: D2=3 :: CH=129 :: CALL HCHAR(R2,C2,CH):: RETURN 45# CH2=128+((D2=1)*(D=2)*3) +((D2=1)*(D=4)*5)+((D2=3)*(D =2)*2)+((D2=3)*(D=4)*4)+((D2 =2)*(D=1)*4)+((D2=2)*(D=3)*5)

46# CH2=CH2+((D2=4)*(D=1)*2) +((D2=4)*(D=3)*3):: CALL HCH AR(R2,C2,CH2):: RETURN

478 CALL KEY(3,K,ST):: IF ST =8 THEN 478 ELSE IF POS(*COU ".CHR\$(K),1)=8 THEN 478

488 GOSUB 518 :: IF K=67 THE N CH=134 :: RETURN ELSE IF K =85 THEN CH=6 :: RETURN ELSE RETURN

498 R=R+(D=1)-(D=3):: IF R(3 OR R>24 THEN R=R2

588 C=C+(D=4)-(D=2):: IF C(3 OR C>38 THEN C=C2 :: RETURN ELSE RETURN

518 IF 9<>1 THEN RETURN ELSE K\$(T)=K\$(T)&CHR\$(K):: IF LE N(K\$(T))<193 THEN RETURN ELS E T=T+1 :: RETURN

528 CH=128-(D=1)-(D=3):: CAL L GCHAR(R,C,6):: IF 6<>32 TH EN 6DSUB 478

530 CALL HCHAR(R,C,CH):: R2= R :: C2=C :: D2=D :: RETURN

I think that educational programs should teach, not just test. This one makes up the kind of problems we all hated in school, but if you get the answer wrong it will show you how to work it.

186 CALL CLEAR :: RANDOMIZE

118 DATA LUMBERJACK, CUT, CORD S OF WOOD, BOY, PICK, GUARTS OF BERRIES, ELEPHANT, EAT, BALES OF HAY, COW, SIVE, GALLONS OF MILK

128 FOR J=1 TO 4 :: FOR L=1 TO 3 :: READ M\$(J,L):: NEXT L :: NEXT J 138 A=INT(5#RND+2):: IF A=A2

THEN 138 ELSE A2=A 148 B=INT(9#RND+2):: IF B=B2 THEN 148 ELSE B2=B 158 C=INT(9#RND+2):: IF C=C2

THEN 158 ELSE C2=C 155 X=B/C/A :: IF LEN(STR\$(X))>4 THEN 138

168 D=INT(4*RND+1):: IF D=D2 THEN 168 ELSE D2=D 178 DISPLAY AT(3,1)ERASE ALL

:"IF"; A; M\$ (D, 1); "S CAN "; M\$ (

D,2):B; M\$(D,3); " IN":C; "DAYS

188 DISPLAY AT(6,1): "HOW MAN Y "; M\$(D,3); " CAN 1 "; M\$(D,1); " "; M\$(D,2); " IN 1 DAY?" 198 ACCEPT AT(9,1) VALIDATE(N UMERIC) BEEP; 0 288 IF Q<>X THEN 388 :: DISP

LAY AT(11,1): "CORRECT!"
218 DISPLAY AT(23,1): "PRESS
ANY KEY" :: CALL KEY(8,K,ST)
:: IF ST=8 THEN 218 ELSE 138
388 DISPLAY AT(11,1): "NO -":
"IF"; A; M\$(D,1); "S CAN "; H\$(D,2): B; M\$(D,3); "IN": C; "DAYS,

318 DISPLAY AT(15,1): "THEN"; A; M\$(D,1); "S CAN "; M\$(D,2): B ; "/"; C; M\$(D,3); " IN 1 DAY": B ; "/"; C; "="; B/C 328 DISPLAY AT(19,1): "SO 1 " ; M\$(D,1); " CAN "; M\$(D,2); B/C ; "/"; A; M\$(D,3); " IN 1 DAY": B /C; "/"; A; "="; X :: 60TO 218

Here's a new way to put a

title on the screen
188 !SCATTERPRINT by Jim Pet
erson

118 CALL CLEAR :: M\$="TI6ERC
UB SOFTWARE" :: L=LEN(M\$)::

IF L>28 THEN 118 :: C\$=SE6\$(
"ABCDEF6HIJKLMNOPGRSTUVWXYZI
\",1,L)

128 FOR J=1 TO L :: RANDOMIZ
E :: X=INT(LEN(C\$) #RND+1)::
Y=ASC(SE6\$(C\$,X,1))-64

138 DISPLAY AT(2,13-L/2+Y):S
E6\$(M\$,Y,1);:: C\$=SE6\$(C\$,1,X-1)&SE6\$(C\$,X+1,255):: NEXT

This one is very basic, but if you have Terminal Emulator II, Speech Synthesizer, and a preschool child, it's a fine way to learn the alphabet, the keyboard, to spell his name, or just to have fun with - try a string of KK's for a train chugging uphill.

188 OPEN #1:"SPEECH", OUTPUT 118 CALL KEY(3,K,S) 128 INPUT M\$ 138 PRINT #1:M\$

145 50TO 128

148 60TO 148

Memory full - Jim P.

routines which beat everyone else - and then sent me two more which beat his first ones! His PEEK version -199 DIM A(255), C(255):: FOR K=255 TO 1 STEP -1 :: RANDOM IZE :: CALL PEEK (-318#8.8):: 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! 188 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 McCornick. Mack Ron Albright, and many others!

Special pre-publication prices - \$38 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!

199 ! LINPUT PUZZLE/BUG by B.A. Traver

118 ! QUESTIONS? Send SASE to Barry Traver

128 ! 552 Seville St. Phila. PA 19128

130 CALL CLEAR :: PRINT "LIN PUT PUZZLE/BUG": "BY BARRY TR AVER "

149 PRINT "Can you figure ou t why your computer will not obev?"

15# PRINT "Why won't it stop

when you tell it to?": :: 168 LINPUT "Want me to stop? (YES/NO) ": WS 179 IF WS="YES" THEN STOP EL SE 168 188 END

It seems that many of you still haven't heard of Suger 99 Monthly, published monthly (and on time!) by Bytemaster Computer Services. 171 Mustano Street, Sulphur, LA 79663. for \$12 per year. The May issue contained a Word Processor Dump, to dump a graphics/text screen into a D/V88 file which can he 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 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 August byte was a mouthful! Check this -199 7=2 118 Z=1/Z=2 :: CALL JOYST(Z. X.Y) And this! Elegant! Z=Z=# :: 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 16-digit codes, let's write

a program to write a program of them -118 OPEN #1: "DSK1. HEXCODES", VARIABLE 163 :: LN=38888 :: FOR D=32 TO 124 STEP 8 :: FO R CH=D TO D+7 :: CALL CHARPA T(CH, CHs) 128 Ds=Ds&CHRs(179)&CHRs(288) &CHR\$ (16) &CH\$:: NEXT CH 138 PRINT #1: CHR\$ (INT (LN/256))&CHR\$(LN-256#INT(LN/256))& CHR\$ (147) &SEG\$ (D\$, 2, LEN (D\$)) &CHRs(B):: LN=LN+1 :: D\$="" :: NEXT D

149 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 -31999 SUB GRAFWRITER 31961 OPEN #1: "DSK1.P6", DUTP UT. DISPLAY . VARIABLE 163 31002 RESTORE 30000 :: L=300 ## :: 60SUB 31918 31863 FOR CH=32 TO 127 :: CA LL CHARPAT (CH, CH\$):: READ AS :: IF CHS=AS THEN 31984 ELS E GOSUB 31819 :: GOSUB 31818 31994 NEXT CH 31995 FOR CH=128 TO 143 :: C ALL CHARPAT (CH. CHs):: IF CHS =RPT\$("B", 16) THEN 31886 ELSE GOSUB 31#19 :: GOSUB 31#18 31986 NEXT CH 31887 PRINT #1:L\$&CHR\$(157)& CHR\$ (288) &CHR\$ (5) & "CLEAR" &CH R\$(8):: 60SUB 31818 31998 FOR R=1 TO 24 31999 Ms=L\$&CHR\$(162)&CHR\$(2 45) &CHR\$ (183) &CHR\$ (285) &CHR\$ (LEN(STR\$(R)))&STR\$(R)&CHR\$(31818 FOR C=3 TO 38 :: CALL GCHAR(R,C,S):: CALL HCHAR(R, C. 42):: IF F=# AND 6=32 THEN

31813 31811 F=1 :: IF FF=1 THEN 31 012 ELSE CC=C-2 :: FF=1 31812 As=As&CHRs(6) 31913 NEXT C :: IF CC=9 THEN CC=1 :: As=" " 31814 PRINT #1: M\$&CHR\$ (288) & CHR\$(LEN(STR\$(CC)))&STR\$(CC) &CHR\$(182)&CHR\$(181)&CHR\$(19 9) &CHR\$ (LEN (AS)) &AS&CHR\$ (B) 31815 L=L+18 :: F.FF.CC=8 :: Ms. As="" :: 60SUB 31918 :: NEXT R

31916 PRINT #1:L\$&CHR\$(134)&

CHR\$(281)&L\$&CHR\$(8):: GDSUB 31918 31f'7 PRINT #1: CHR\$ (255) & CHR \$(255):: CLOSE #1 :: SUBEXIT 31#18 L1=INT(L/256):: L2=L-2 56=L1 :: L\$=CHR\$(L1)&CHR\$(L2):: L=L+18 :: RETURN 31819 PRINT #1:L\$&CHR\$(157)& CHR\$ (295) & CHR\$ (4) & "CHAR" & CHR \$(183)&CHR\$(288)&CHR\$(LEN(ST R\$(CH)))&STR\$(CH)&CHR\$(179)& CHR\$ (199) & CHR\$ (16) & CH\$& CHR\$ (182) &CHR\$ (#):: RETURN 31828 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 coing to itself, such as 1881 60TO 1881, 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 MERSE DSK1. GRAFWRITER. Then RUN the program. When it stops. type NEW, then MERGE DSK1.PG and then RUN!

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

And, thanks to Jerry 6laze in the Southern Nevada U6 newsletter, by way of the Tidewater newsletter - vou don't need SIZE with DISPLAY AT - just a semicolon! 100 DISPLAY AT(12,1):RPT\$("= ".28):: DISPLAY AT(12.1): "SE

MEMORY FULL! - Jim Peterson

even lamana, brailanters reject to the first land of the statement of the

the state of the s

rein home pillicent of all older children on and older children on and older children older children older children older older children olde

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

Topon series of Clares stone, and a control of taught here has engaged or printed at the engaged of the engaged

The parties of the county of t

The saint its willer as annually of the saint and the sain

training of the second of the

GARY BISHOP 124-222 860 WESTVIEW DR MARION IA 52302

> Tomas without total off as complete of Reimini T Auti wife the politic ages and proposit to began in

Special and he seems that the seems to the s

the provides of the set of the se

the state of the second control of the state of the second of the second

15, 1