THE CLEVELAND AREA 99/4A USERS GROUPS NEWSLETTER

OCTOBER, 1984

NORTHCOAST

SOLON

NORTH ROYALTON

GOLDEN CRESCENT

EXECUTIVE NOTES -- SOLON

If you were at the Solon meeting in September, you saw Frank Jenkins present an informative demonstration of the TI word processing software, TI Writer. Thank you, Frank Jenkins.

For October, we will have a sprite presentation -- that meeting on Saturday October 13, 1984. For November, we will have a presentation on the Mini-Memory Command Module -- that meeting on Saturday, November 10, 1984.

Hope to see you there.

Walter Ryder President

OCTOBER MEETING

Saturday, October 12, 1984

Solon Public Library -- Inwood Drive off SOM Center 10:30 am -- Education Session 11:30 am -- Membership Meeting

NOVEMBER MEETING

Saturday, November 10, 1984

Solon Public Library
10:30 am -- Education Session 11:30 -- Membership Meeting

FOR SALE:

Unopened extra TI Multiplan \$70 Unopened Editor/Assembler Manual (TI suggested reference for use with Mini-Memory) \$10

Ken (357-7274) after 6 or weekends

BOLDEN CRESCENT

OFFICERS

PRESIDENT: CHUCK MARENO 324-4388
VICE PRESIDENT: DICK BURGER 967-1317
TREASUER: DALE SCHIEFERSTEIN 988-5050

SECRETARY: OPEN (NEED ONE BADLY)

LIBRARY: JUDY HAYDEN

988-5597

MEETING PLACE: AMHERST FIRE STATION

CHURCH STREET
ANHERST, DHIO
2PM. TO 3:30PM.

TIME 2PM. TO 3:30PM.

4TH SATURDAY OF EACH MONTH
NEXT MEETING: OCTOBER, 27TH, 1984

EXECUTIVE NOTES

Summer is almost over. The nip of Fall is in the air. Summer picnics are a thing of the past. They are now pleasant memories. Our thoughts now turn to.... What else!, our trusty computers, tucked away in a dusty corner of the closet waiting for summers end. NO!!, You say, You've been with it all summer and now you are really ready to go!. Fine. Then lets get started.

As some of you may know, our summer attendance was very low during the last three meetings. We had a Picnic in July which was not supported by the membership. If this is going to be the case in the future, it is very possible that we will simply cancel the June, July, and August Meetings next year.

In any case, I'm looking forward to an exciting year for the Club.However, to make this possible we need a lot more help from our members. I know, you have heard this before, and read it in the Newsletter, time after time.but the fact remains, if our group is to be successful, continue to grow and develop, we need a lot more input from our members then we have received in the past.

I'm sure, each and every one of you has something to share with others, some bit of information, a tip you have found useful, a better way to do something, a problem you have solved, a program you have written or modified to run better, anything, you can share with others in the group. That's what a users group is all about.

If you have read something in a magazine or book that was interesting to you, then it will be interesting to others. Let us know about it, or, better yet, write it up and submit it to the NEWSLETTER. (and by the way, we still are looking for an EDITOR). so come on and join in on the fun, you'll be glad you did and we will all benefit.

!!!!CONTEST!!!!

DUR SECTION OF THE NEWSLETTER NEEDS A UNIQUE IDENTITY!

We need to develop a masthead and a name for our section of the NEWSLETTER, something that will make us stand out and be our own, therefore, we will be accepting Ideas from our membership and will award a prize to the winner. A trip to EUROPE or a GIFT CERTIFICATE for a thousand dollars has been suggested, needless to say they were turned down, However, we will be offering an exciting piece of softwear to the lucky winner. Members may submit as many entries as they like. SO, lets see what you can come up with to make our section of the NEWSLETTER super exciting.

EXECUTIVE NOTES -- TI CHIPS

In place of an August meeting, the Ti Chips held their First Annual Picnic. Fun was had by all who attended.

On Saturday, September 15, the TI Chips had its monthly meeting at the North Royalton Library.

Our Library Committee announced that our Periodical Library is now ready to start loaning material. Donations of magazines by members would be appreciated. Instead of throwing them away when you've finished, by donating them you can share them with all our club members.

Thanks to our Education Committee, we had a very interesting meeting last month. Tom Thalner of Edu-Comp, with the help of his children, gave a demonstration of the Sketch Pad by Personal Peripherals. While pictures cannot be printed out, they can be put on tape (not disk) and this seems like a really fun piece of equipment with some fine features, such as color selection, filling in solid areas, and line rays. Thanks, Tom and Family.

A special thanks also to Don Schmidt of Compro who brought in a printer called "the yellow Banana" by the Leading Edge for us to examine.

Steve Latza and Mark McCauley took apart a TI console to demonstrate how to clean the contacts. They pointed out that the computer was still working after they put it back together. Some of us were holding our breaths, but we'll never doubt you again, fellas.

Daryl Saylor gave an informative presentation about how to use the CALL CHARacter subprogram for redefining characters.

After the meeting, a "debugging" session was held. About 8 or 9 members attended and worked on a program on files. There will be another debugging session at the October meeting. Members are invited to bring in problem programs or just come to watch or help.

Although this was a really great meeting, our officers would like to top it, if possible, this month and every month. They want your suggestions on what you want to see or learn aout.

Our next meeting will be on Saturday, October 20 at the North Royalton Public Library at 10:00 am. See you all there. Bring a friend!

Jan Fedor Secretary

EXECUTIVE NOTES - NORTHCOAST

Although it was a gorgeous day outside, our September meeting was well attended. Those present got to see the insides of the computer as well as a demo of TE-1200, a terminal emulator program.

Thanks to Don Schmidt of Compro Systems for demonstrating the Leading Edge Gorilla Banana printer, a real bargain of a printer at \$150.00.

Congradulations to the winners of the door prizes, Maria Stavanja and Phil D'Apice. Maria won a mail list program and Phil won a space game. There will be at least two door prizes at the next meeting so be sure and be there.

At our October meeting Judy and Tom Thalner of EDU-COMP will be present to demonstrate a sketch pad for the TI call "SUPER SKETCH" from Personal Periferals, INC. I was really impressed with it. I also will have several Forth programs to copy.

Plans should be finalized by next meeting for the TI-Writer Seminar to be headed up by Robert Van Etten. If you are interested, please let me know before the next meeting.

For those who do not get Home Computer(when it comes), there will be a few extra copies of the Home Computer Digest at the next meeting.

Looking ahead— Teresa Leeders of DAK, a computer supply company will be present at our November meeting to show what is available from them and will be bringing some extra goodies along to give out.

NEXT MEETING

WHEN: October 27th
WHERE: Euclidian Room
Euclid Square Mall
TIME: 12:45 - Programming and Debugging Session
1:30 - Regular Meeting

Jim Cline 261-2463

CASSETTE TO DISK -- TOO LONG

When transferring long basic programs from cassette to disk, a problem can occur because of the disk controller card using up some RAM. There is a way to ovecome this problem, provided the program can run in Extended BASIC (character sets 15 & 16 not used) and expansion memory's available.

Here is the procedure: Turn on the computer without first turning on the peripheral box, select BASIC, and load in the program. Now edit out the last half of the program using function erase and the arrow key alternately. Now save the remaining first half to another cassette. Reload the original program, delete the first half and save this to other side of the cassette. Now, shut off the computer, turn on the peripheral box and turn back on the computer this time selecting Extended BASIC. Reload first half and save to disk using the Merge option. Now reload the second half and merge with first half, then resave to disk -not fast but it sure saves retyping the entire program.

Another tip is that I use cassette tape to backup my disks. I reserve my disks for my favorite programs and put everything else on 90 minute cassettes -- yes, they're thin and can stretch, but I seldom read anything from them and they're inexpensive and can hold four single sided disks worth. The method in the first discussion can be used with slight procedure modifications to backup long disk programs to disk. If anyone reading this article knows of a simpler way to transfer programs, please write to me in care of this group.

Ken Gladyszewski

AN EDIT ROUTINE FOR YOUR TI (Submitted by Tony Kozak)

Ever make an error entering data into an input statement and mess up accumulated totals and/or data you had been printing and/or saving? The two lines below can provide you with a limited ability to edit data entered through input or accept statements. These two lines give you a "second chance" to correct data before it is accumulated into totals and printed or saved.

XXX INPUT "CORRECT? ('ENTER' OR 'NO')": A\$
YYY IF A\$="NO" THEN CCC

If ENTER is pressed, the program moves on. If NO is typed, the program goes back to the first line in the input sequence. These two lines should be placed so that they come before any instructions to add data to totals and/ or print or save the data. If NO is typed, the corrections can be made before erroneous data messes up the record you are creating.

The short program below illustrates how this edit routine works. 5 numbers are to be input and the sum totaled. After each input, a "second chance" to review the number input is given. If NO is typed, the number input is not added to the sum nor is it counted in the for/next loop cycle. Only the first 5 input entries where ENTER is pressed are counted in the loop. Make up a problem and try it. It works in console or extended basic.

- 100 CALL CLEAR
- 110 LET SUM=0
- 120 FOR X=1 TO 5
- 130 INPUT Y
- 140 INPUT "CORRECT? ('ENTER'
- OR 'NO')":A\$
- 150 IF A\$="NO" THEN 130
- 160 PRINT
- 170 SUM=SUM+Y
- 180 NEXT X
- 190 PRINT
- 200 PRINT "TOTAL: ":SUM
- 210 END

TIPS AND TRICKS

From: Judy Thalmer, gleaned from various T.I. boards accross the country.

BRINGS UP THE TITLE SCREEN:

CALL PEEK (2, A, B)
CALL LOAD (-31804, A, B)

LOOKS FOR A PBM CALLED LOAD:

CALL LOAD (-31962, 255)

ACCESS THE SOUND REGISTER:

CALL LOAD (-31740, NN, NN)

TRY DIFFERENT NUMBERS AND SEE WHAT YOU CAN SET.

A REVIEW

FAST COPYER (tm)
by QUALITY 99 SOFTMARE
1884 Columbia Road. Number 500
Washington, D.C. 20009

I received a notice in the mail the other day from this firm regarding a product that will copy disks in TWO passes or less. Needless to say I was very interested as the price of 19.95 seemed right to me. Better yet, until the 30th. of September they were offering it for 20 percent off the list price. I ordered it. Several days later it arrived in the mail. I am very pleased to report that it does everything the firm said it will do and more. I used it with the mini-memory and it worked great. It sucks up a master disk in two great big gulps and spits it out to the copy disk in only one or two passes. A full disk will require two passes. Fantastic!!!, If you are looking for a utility that will help you in copying disks then this is the Product for you. The only thing wrong is that the Co. does not offer quanity discounts to groups. Also, by the time you read this the 20 percent offer will be over. I rate this a 8 and that is because this product did not appear to work with the new CorCom card. Chuck Mareno

REPORTS OF MY DEATH GREATLY EXAGGERATED DEPARTMENT.

Some time back, we reported the possibility that the "SMART PROGRAMMER" by Miller Graphics may have ceased publication. This is NOT the case and I am happy to report issues of the news letter will be forthcomming. This information comes from Judy Thalmer of EDU-COMP, 327-6579. If you would like to obtain a copy of this most interesting Newsletter, give Judy a call.

TI SOFTWARE RELEASES

We now have on hand updates for TI WRITER and MULTIPLAN. One of the TI WRITER files eliminates the "Famous form feed while using the Formatter" which has annoyed us for so long. This routine along makes this package invaluable to owners of this excellent software package. Any member interested in obtaining these updates can contact Chuck Mareno at 324-4388.

MIDWEST COMPUTER FEST

The CIN-DAY USERS GROUP has cancelled a proposed Midwest Computer Fest scheduled for this Fall. An announcement of the event was carried in the Grapevine Column in the last issue of Home Computer Magazine.



TIPS FROM THE TIGERCUE No. 14

Distributed by Tigercub Software to users groups for promotional purposes and in exchange for their newsletters.

Tigercub Software, 156 Collingwood Ave., Columbus OHIO 43213, has over 130 original programs available at only \$3.80 each. My catalog is available for \$1.60 which may be deducted from your first order.

It has come to my attention that the members of some users groups have never heard of my kitchen-table enterprise. Although their group has been receiving my newsletter for several months. It appears that many users groups have no method of making available to their members the information from newsletters which they receive in exchange.

My software business is a failure, and my Tips are a complete failure as a promotional effort. During the month of July I received a total of 31 requests for my catalog, of which only 9 were the result of newsletter publicity. I do not want to discontinue these Tips, because of the many interesting newsletters that I receive in exchange. However, I can no longer afford to distribute them to those groups which never give any indication that my Tips are reaching their members.

You may have observed that the Tigercub now possesses a Gemini 10% printer. The only fault I could find with it was that it wouldn't print Chinese, so I remedied that defect with this little program.

100 !THIS POUTINE INITIALIZE S THE GEMINI 10X TO PRINT 'C HINESE' UNTIL IT IS TURNED O FF - by Jim Peterson 110 DPEN 01: "PIO"

120 PRINT #1: CHR\$ (27); CHR\$ (4 2); CHR\$(0);:: CALL CLEAR 130 FOR CH=65 TO 90 :: PRINT "WORKING..." :: FOR J=1 TO 7 :: FOR L=1 TO 9 :: RANDONI ZE :: IF (INT(3#RND+1)(3)+((L>1) # (D(J,L-1)>0) | THEN 150 140 D(J,L),D(J,10-L)=(1+ABS(J>1))^J 150 NEXT L 160 NEXT J 170 FOR L=1 TO 9 :: FOR J=1 TO 7 :: X(L)=X(L)+D(J,L):: N EXT J :: NEXT L 180 PRINT #1:CHR\$(27);CHR\$(4 2); CHR\$(1); CHR\$(CH); CHR\$(1); CHR\$(X(1));CHR\$(X(2));CHR\$(X (3));CHR\$(X(4));CHR\$(X(5));C HR\$(X(6));CHR\$(X(7));CHR\$(X(8));CHR\$(X(9)) 190 FOR J=1 TO 7 :: FOR L=1 TO 9 :: D(J,L)=# :: NEXT L : : NEXT J 200 FOR L=1 TO 9 :: X(L)=0 : : NEXT L :: NEXT CH 218 PRINT #1:CHR\$(27);CHR\$(3 6); CHR\$(1); 228 PRINT #1: CHR\$(27); CHR\$(8 7); CHR\$(1) 230 PRINT #1:CHR\$(27);CHR\$(7 1) 240 STOP

Now. without turning off the printer, type LIST "PIO" or run any program that puts out text to the printer. It won't fool a Chinaman but it might impress your friends.

Mere's a little something for you who own the Terminal Emulator II and the Speech Synthesizer. Haybe our Congressmen could use it to help them discuss the national debt.

100 CALL CLEAR 110 PRINT TAB(7); "NUMBER SPE AKER": : : "by Jim Peterson": of Tigercub Software* : : : 120 PRINT " This program wil I print any":" number of les s than 67°:"digits in number s and in* 138 PRINT "words, and will s peak the":"words.": : : : R equires Terminal Emulator":" II and Speech Synthesizer.": : : 149 CALL CHAR (39, *0000000000 301020")

150 OPEN #1: "SPEECH", OUTPUT 160 DIM HIGH\$ (21), NN\$ (23) 170 DATA ONE, TWO, THREE, FOUR, FIVE, SIX, SEVEN, EIGHT, NINE 180 DATA TEN, ELEVEN, THELVE, T HIRTEEN, FOURTEEN, FIFTEEN, SIX TEEN, SEVENTEEN, EIGHTEEN, NINE TEEN 190 DATA TWENTY, THIRTY, FORTY ,FIFTY, SIXTY, SEVENTY, EIGHTY, MINETY 200 DATA THOUSAND, MILLION, BI LLION, TRILLION, QUADRILLION, Q UINTILLION, SEXTILLION, SEPTIL LION, OCTILLION, NONILLION 210 DATA DECILLION, UNDECILLI ON, DUODECILLION, TREDECILLION , OUATTUORDECILLION, GUINDECIL LION, SEXTEDECILLION 220 DATA SEPTENDECILLION, OCT ODECILLION, NOVEMBECILLION, VI **GINTILLION** 230 FOR J=1 TD 9 240 READ DNES(J) 250 NEXT J 260 FDR J=1 TO 15 270 READ TEENS(J) 280 NEXT J 290 FOR J=1 TO 8 300 PEAD TENS(J) 310 NEXT J 320 FOR J=1 TO 21 330 READ HIGH*(J) 340 NEXT J 350 PRINT : : : 368 PRINT #1: "NUMBER" 370 INPUT "NUMBER? ":N\$ 386 L=LEN(NS) 390 FOR J=1 TO L 400 IF POS("0123456789", SEG\$ (N\$, J, 1), 1)=0 THEN 360 410 NEXT J 428 IF (VAL(N\$)<1)+(VAL(N\$)< >INT(VAL(NS)))THEN 360 430 IF L<67 THEN 470 440 PRINT "HEY! I CAN ONLY C DUNT TO A":"VIBINTILLION!": 458 PRINT #1: "HAY I CAN ONLY COUNT TO A VIGINTILLION-468 60TO 368 470 IF VAL(N\$)>0 THEN 510 480 PRINT : : "ZERO": : 490 PRINT #1: "ZERO" 500 60TO 360 518 IF L/3=INT(L/3) THEN 548 528 NS="8"&NS 530 60TO 380 540 X=L/3 550 FOR J=1 TO L STEP 3 560 JJ=JJ+1

570 NN\$(JJ)=SE6\$(N\$,J,3)

EDA TP 114 TIPM //A
588 IF 3>1 THEN 618
590 Ps=STRs(VAL(NNs(JJ)))
600 6010 620 - %
610 P\$=P\$&"'"NN\$(JJ)
520 NEXT J
438 PRINT : : :P\$: : :
640 FOR J=1 TO X
650 60SUB 670
660 6 010 1150
679 IF VAL(NN\$(J))(>9 THEN 7
10
680 A\$=""
590 FLA6=1
7 00 60TO 1140
710 FLAG=0
720 H=VAL(SE6\$(NN\$(J),1,1))
738 T=VAL(SE6\$(NN\$(J),2,2))
740 TT=VAL(SE6\$(NN\$(J),2,1))
-1
750 VV=VAL(SEG\$(NN\$(J),3,1))
760 IF T=0 THEN 1000
778 IF T>9 THEN 818
788 AS=ONES(T)
798 SP\$=A\$
888 60TO 1888
818 IF T>19 THEN 888
920 A\$=TEEN\${T-9}
830 IF T<>19 THEN 860
840 SP\$="NINE TEEN"
850 6DTG 1000
950 SP\$=A\$
870 GDTO 1000
980 IF VV<>0 THEN 950
890 AS=TEMS(TT)
*** ** *** ****
900 IF TT()8 THEN 930
900 IF TT(>8 THEN 930
910 SPS="NINE TEE"
910 SP\$="NINE TEE" 920 60TO 1000
910 SP\$="NINE TEE" 920 60TO 1000 930 SP\$=A\$
910 SP\$="NINE TEE" 920 60TO 1000 930 SP\$=A\$ 940 60TO 1000
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918 SP\$="NINE TEE" 928 GOTO 1888 938 SP\$=A\$ 948 GOTO 1888 958 A\$=TEN\$(TT)&"-"&ONE\$(VV) 968 IF TT<>8 THEN 998 978 SP\$="NINE TEE"&ONE\$(VV) 988 GOTO 1888 958 SP\$=A\$ 1888 IF T=0 THEN 1888 1888 A\$=ONE\$(H)&" HUNDRED & "&A\$ 1838 SP\$=ONE\$(H)&" HUNDRED &
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910 SPS="NINE TEE" 920 GOTO 1000 930 SPS=AS 940 GOTO 1000 950 AS=TEMS(TT)&"-"&ONES(VV) 960 IF TT<>8 THEN 990 970 SPS="NINE TEE"&ONES(VV) 980 GOTO 1000 950 SPS=AS 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 AS=ONES(H)&" HUNDRED & "&AS 1030 SPS=ONES(H)&" HUNDRED & "&SPS 1040 GOTO 1140
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910 SP\$="NINE TEE" 920 GOTO 1000 930 SP\$=A\$ 940 GOTO 1000 950 A\$=TEN\$(TT)&"-"LONE\$(VV) 960 IF TT(>0 THEN 990 970 SP\$="NINE TEE"LONE\$(VV) 980 GOTO 1000 950 SP\$=A\$ 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 A\$=ONE\$(H)&" HUNDRED & "LAS 1030 SP\$=ONE\$(H)&" HUNDRED & "LSP\$ 1040 GOTO 1140 1050 A\$=ONE\$(H)&" HUNDRED" 1060 SP\$=A\$ 1070 GOTO 1140 1080 IF (J(X)+(T=0)+(VAL(NS) (100) THEN 1140
910 SP\$="NINE TEE" 920 GOTO 1000 930 SP\$=A\$ 940 GOTO 1000 950 A\$=TEN\$(TT)&"-"LONE\$(VV) 960 IF TT(>8 THEN 990 970 SP\$="NINE TEE"LONE\$(VV) 980 GOTO 1000 950 SP\$=A\$ 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 A\$=ONE\$(H)&" HUNDRED & "LAS 1030 SP\$=ONE\$(H)&" HUNDRED & "LSP\$ 1040 GOTO 1140 1050 A\$=ONE\$(H)&" HUNDRED" 1060 SP\$=A\$ 1070 GOTO 1140 1080 IF (J(X)+(T=0)+(VAL(NS)
910 SP\$="NINE TEE" 920 GOTO 1000 930 SP\$=A\$ 940 GOTO 1000 950 A\$=TEN\$(TT)&"-"LONE\$(VV) 960 IF TT(>0 THEN 990 970 SP\$="NINE TEE"LONE\$(VV) 980 GOTO 1000 950 SP\$=A\$ 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 A\$=ONE\$(H)&" HUNDRED & "LAS 1030 SP\$=ONE\$(H)&" HUNDRED & "LSP\$ 1040 GOTO 1140 1050 A\$=ONE\$(H)&" HUNDRED" 1060 SP\$=A\$ 1070 GOTO 1140 1080 IF (J(X)+(T=0)+(VAL(NS) (100) THEN 1140
910 SPS="NINE TEE" 920 GOTO 1000 930 SPS=AS 940 GOTO 1000 950 AS=TEMS(TT)&"-"&ONES(VV) 960 IF TT<>8 THEN 990 970 SPS="NINE TEE"&ONES(VV) 980 GOTO 1000 970 SPS=AS 1000 IF T=0 THEN 1000 1010 IF T=0 THEN 1000 1020 AS=ONES(H)&" HUNDRED & "&AS 1030 SPS=ONES(H)&" HUNDRED & "&SPS 1040 GOTO 1140 1050 AS=ONES(H)&" HUNDRED" 1060 SPS=AS 1070 GOTO 1140 1060 THEN 1140 1090 AS=" & "&AS 1100 IF (TT<>8)*(T<>19)THEN
910 SPS="NINE TEE" 920 GOTO 1000 930 SPS=AS 940 GOTO 1000 950 AS=TEMS(TT)&"-"&ONES(VV) 960 IF TT<>8 THEN 990 970 SPS="NINE TEE"&ONES(VV) 980 GOTO 1000 950 SPS=AS 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 AS=ONES(H)&" HUNDRED & "&AS 1030 SPS=DNES(H)&" HUNDRED & "&SPS 1040 GOTO 1140 1050 AS=ONES(H)&" HUNDRED" 1060 SPS=AS 1070 GOTO 1140 1060 IF (J <x)+(t=0)+(val(ns) <="" p=""> (100) THEN 1140 1050 AS=" & "&AS 1100 IF (TT<>8)*(T<>19) THEN 1130</x)+(t=0)+(val(ns)>
910 SPS="NINE TEE" 920 GOTO 1000 930 SPS=AS 940 GOTO 1000 950 AS=TEMS(TT)&"-"&ONES(VV) 960 IF TT<>8 THEN 990 970 SPS="NINE TEE"&ONES(VV) 980 GOTO 1000 970 SPS=AS 1000 IF T=0 THEN 1000 1010 IF T=0 THEN 1000 1020 AS=ONES(H)&" HUNDRED & "&AS 1030 SPS=ONES(H)&" HUNDRED & "&SPS 1040 GOTO 1140 1050 AS=ONES(H)&" HUNDRED" 1060 SPS=AS 1070 GOTO 1140 1060 THEN 1140 1090 AS=" & "&AS 1100 IF (TT<>8)*(T<>19)THEN
910 SPS="NINE TEE" 920 GOTO 1000 930 SPS=AS 940 GOTO 1000 950 AS=TEMS(TT)&"-"&ONES(VV) 960 IF TT<>8 THEN 990 970 SPS="NINE TEE"&ONES(VV) 980 GOTO 1000 950 SPS=AS 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 AS=ONES(H)&" HUNDRED & "&AS 1030 SPS=DNES(H)&" HUNDRED & "&SPS 1040 GOTO 1140 1050 AS=ONES(H)&" HUNDRED" 1060 SPS=AS 1070 GOTO 1140 1060 IF (J <x)+(t=0)+(val(ns) <="" p=""> (100) THEN 1140 1050 AS=" & "&AS 1100 IF (TT<>8)*(T<>19) THEN 1130</x)+(t=0)+(val(ns)>
910 SPS="NINE TEE" 920 GOTO 1000 930 SPS=AS 940 GOTO 1000 950 AS=TEMS(TT)&"-"&ONES(VV) 960 IF TT<>8 THEN 990 970 SPS="NINE TEE"&ONES(VV) 980 GOTO 1000 970 SPS=AS 1000 IF H=0 THEN 1000 1010 IF T=0 THEN 1050 1020 AS=ONES(H)&" HUNDRED & "&AS 1030 SPS=ONES(H)&" HUNDRED & "&SPS 1040 GOTO 1140 1050 AS=ONES(H)&" HUNDRED" 1060 SPS=AS 1070 GOTO 1140 1080 IF (J <x)+(t=0)+(val(ns) &as="" (tt<="" 1090="" 1100="" 1140="" <100)then="" as=" & " if="">8)*(T<>19)THEN 1130 1110 SPS=" & "&SPS</x)+(t=0)+(val(ns)>

```
1140 RETURN
1150 PRINT AS
1166 IF FLAG=1 THEN 1280
1178 PRINT #1:SP6
1180 PRINT HIGHS (X-J)
1198 PRINT #1:HI6H$(X-J)
1200 GOSUB 670
1218 NEXT J
1220 PRINT BS
1230 As=**
1240 JJ=0
1250 B$=**
1268 P$=**
1270 FOR D=1 TO 500
1280 NEXT D
1298 60TO 358
```

I hope you noticed that all those zeros were neatly slashed so that you wouldn't mistake them for D's. Here's a little routine that will set up your printer to slash the B's until you turn it off.

```
188 OPEN #1: "PIO"

118 PRINT #1: CHR$(27); CHR$(4

2); CHR$(8);

128 PRINT #1: CHR$(27); CHR$(4

2); CHR$(1); CHR$(48); CHR$(8);

CHR$(92); CHR$(34); CHR$(81); CHR$(8); CHR$(8); CHR$(69); CHR$(2); CHR$(65); CHR$(34); CHR$(28)

138 PRINT #1: CHR$(27); CHR$(3

6); CHR$(1)

148 STOP
```

And, somebody might get mad if I don't include a little music -

```
100 REM - BELL MUSIC program
med by Jim Peterson
110 CALL CLEAR :: CALL SCREE
N(5):: RANDOMIZE
120 FOR CH=96 TO 136 STEP 4
:: FOR L=1 TO 4 :: X$=$E$$(*
0018243C425A667E8199A5BDC3DB
E7FF*, INT(16#RND+1)#2-1,2);;
 B*=B*&X* :: C*=X*&C* :: NEX
ΤŁ
130 D$=B$&C$ :: Z$=RPT$(D$,4
148 CALL CHAR(CH, Z$):: B$,C$
, Zs=NULS :: CALL MAGNIFY(4):
: CALL SPRITE (@CH/4-23, CH, IN
T(15#RND+2),255,255):: NEXT
CH
142 FOR J=1 TD 10 STEP 2 ::
X=98RND-98RND :: Y=98RND-98R
ND :: CALL MOTION(#J.X,Y,#J+
1, X, Y) :: NEXT J
```

150 FOR J=1 TO 20

```
155 CALL COLOR (#INT(10#RMD+1
), INT(158RMQ+2))
160 FOR V=0 TO 16 STEP 4
170 ON J GOSUB 250,270,290,3
10,330,350,370,390,410,430,4
10,390,370,350,330,310,290,2
70,250,270,290,310,330,350
189 NEXT V
198 READ X
200 FOR D=1 TO X#5
218 NEXT D
220 NEXT J
239 RESTORE
240 60TO 150
258 CALL SDUND(-999,131, V, 52
3, V, 131/2, 30, -4, V
260 RETURN
270 CALL SOUND (-999, 165, V, 16
7, V)
280 RETURN
298 CALL SOUND (-999, 196, V, 19
9, (1)
300 RETURN
310 CALL SOUND (-999, 262, V, 26
5, V)
320 RETURN
330 CALL SOUND (-999, 330, V, 33
3,V)
348 PETURN
350 CALL SOUND (-999, 392, V. 39
4, V)
360 RETURN
378 CALL SOUND (-999, 523, V, 39
2, 4, 330, 4)
380 RETURN
390 CALL SOUND (-999, 659, V, 66
6, V)
488 RETURN
410 CALL SOUND (-999,784, V, 79
2, 4)
420 RETURN
430 CALL SOUND (-999, 1047, V, 1
857,V)
440 RETURN
450 DATA 16,16,2,16,8,16,4,4
 , 16, 2, 16, 4, 16, 8, 8, 16, 2, 2, 16,
 4, 2, 8, 16
```

Just about MEMORY FULL, so Happy hackin' Jim Peterson

COPYIT WITH FORTH

by S. LATZA

One of the rules of using disks is "Make Backup Copies", which can be done most of the time using the Disk Manager.

Now with the help of TI FORTH you can make backup copies of your disks without using the Disk Manager, saving you the worry and hassles of having to get a replacement of a program when something goes wrong.

If you have 2 disk drives, the chapter on SYNONYMS in the TI FORTH manual explains how to copy the entire contents of the disk in drive 2 onto the disk in drive 1 using the word FORTH-COPY.

If you have only one disk drive, the following program will allow you to make a backup copy without using the Disk Manager.

First boot in your TI FORTH disk. When the menu comes up select the editor by typing -EDITOR. Type in 6 CLEAR then 6 EDIT. Now on SCREEN 6 type in the following program. After you have finished the program, press FCTN 9 (back) to exit the editor.

You can save the program on a blank formatted disk by typing in FLUSH.

When you want to run the program boot in TI FORTH, type -GRAPH, then insert the disk you saved the program on and type 6 LOAD. After the program is loaded, type in COPYIT and the program will start running. Then just follow the instructions that come up on the screen. Be sure that the disk you are using to copy onto is blank and formatted, as this program will write over anything on the copy disk.

After you have finished using the program, type in FORGET ANYKEY to erase this program from memory.

The program expects that you want to backup the whole disk, not just part of it.

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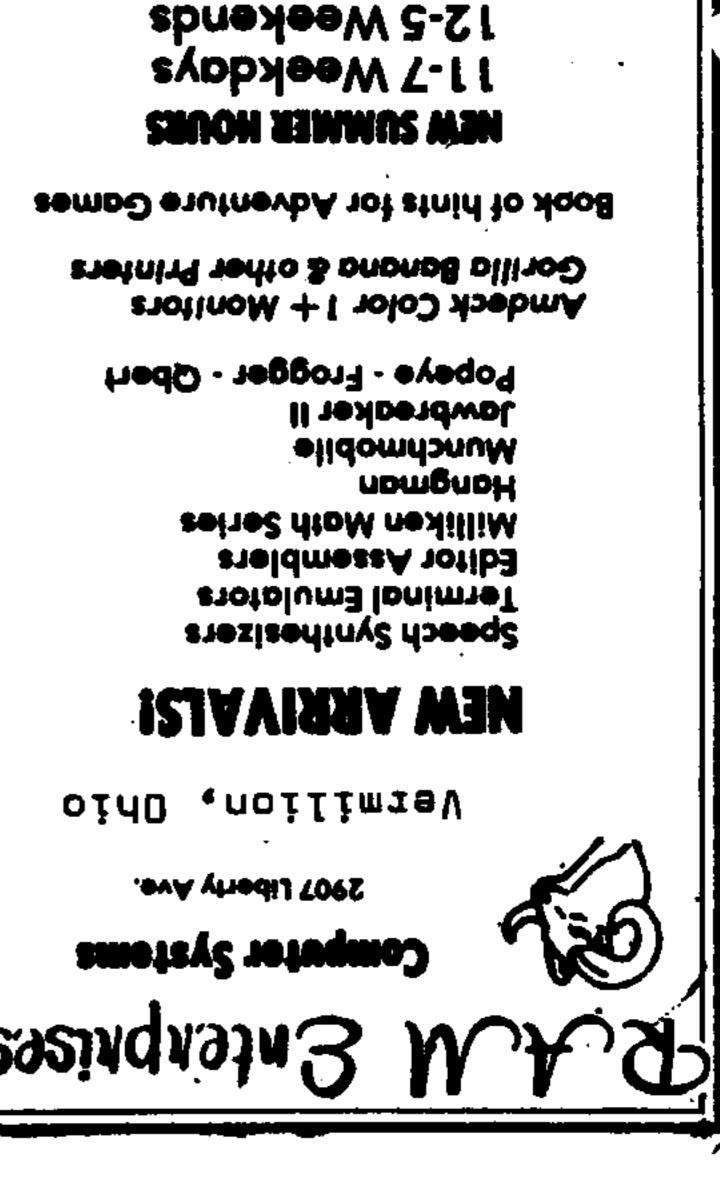
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