

AUGUST 1984 Vol. 2 No. 8

The August meeting will be held on Thursday, August 16th at Cuyahoga Falls High School at the corner of Fourth and Stow Streets in Room 413 - Physic's Lab. The September meeting will be held on Sept. 20th. Please be sure to sign in.

This month's program will feature printers. John Tuesday has lined up some demonstrations.

Rich Williams will be teaching the Basic class for beginners. Please bring in your Blue book that came with your keyboard. NEW PRODUCTS ANNOUNCEMENTS

LogovilleTM is a game that teaches the computer logic of the LOGO language on a gameboard. It requires no computer. It is recommended for ages 5-12 with 2-4 players. By playing LogovilleTM children learn the twelve computer programming commands and the concepts associated with them. For more information you can either look at the bulletin board at the meeting or you can send \$12.95 plus \$2.00 shipping and handling to: Tuttle Products, P.O. Box 26981, Tamarac, FL 33320-6981.

J&KH Software are offering a special price on SXBTM(Regular \$99.95, Special \$59.95). SUPER EXTENDED BASIC (SXB) is a powerful extension to the TI Extended BASIC programming language. SXB is comprised of over 100 TMS9900 Assembly Language subroutines which substantially expand your Extended BASIC programming capabilities on the TI Home Computer. The subroutines are easily invoked with the LINK subprogram in essence, it is now possible to access the raw power of assembly language with only a knowledge of Extended BASIC and the 76 page reference manual provided with the program.

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RAFFLE

You still can get tickets for the raffle to be held on Sept. 20. Tickets are \$1.50 each or 5 for \$5.00. 1st prize= Extended BASIC Module 2nd prize= TI 99/4A Console 3rd prize= Parsec Game Module 4th prize= Pair of Joysticks 5th prize= Cassette Interface Cable

Home Computer Magazine announced that it will no longer carry outside advertising. The new magazine format will allow each article to be presented in its entirety without being interrupted by distracting advertising material.

Subscribers to Home Computer Magazine will also be kept abreast of additional product availability through a separately mailes, 32-page publication called Home Computer Digest (tm). This supplementary publication will be mailed approximately nine times per year and will contain mail-order advertising plus limited editorial material geared to readers who purchase products by mail.

Irenc's Campground is holding a swap meet in the Great Smokies for all 99'ers. The meet is planned for August 27 thru September 2. For more information see the bulletin board or write: Irene's Campground, c/o Richard J.P. Smith, Cherokee, NC 28719 or call (704) 497-9634 between 9:30 and 11:00. The rates are 7-8.00 for 2 people and 1.00 for each additional person.

Nick Polanski is selling his TI equipment for \$200.00. It includes: TI 99/4A Speech Cables 6 modules (educational, Tunnels of Doom, Fractions, Nath, Parsec, Eunch Man, Early Reading, English Grammer) and cassettes Joysticks 8 Magazines and books You can reach Mr. Polanski at 848-3074. Rich Williams has written a program call Checkbook Balancer:

This is one of those programs that started out as a fourty line example of programming in basic. It was o.k. for balancing my checkbook at first, but i was spending to much time at a calculator for the extra charges and credits that banks keep dreaming up. Why use a calculator when I've got a computer at my disposal, right?

Well, as you will see, one thing led to another and what we have as about six months worth of modifications, deletions, and "I didn't know this 'puter could do that!".

Here's a quick explanation of running this program. The first thing you should see is the title and credit (that was a last minute afterthought). The first input to the program is the bank's balance. This is the balance from the checking account statement. The next prompt is for outstanding checks that are in your checking register but are not on the statement. These are entered by check number and amount seperately and as long as you do not enter a zero for the check number, it will continue to prompt you for entries. Upon entering a zero for the check number the program will prompt you for any outstanding deposits. Here again, as long as you enter an amount other than zero, the program will continue to request outstanding deposits. Entering a zero will cause the program to request any interest you may have accumulated if you have an account that pays interest on checking. Now it's time to include those service charges that always seem to be at least twice the amount of the interest accumulated. (if theres more than one service charge we can add them up in our head, right?) The computer will now come up with a new balance that should match the amount in your checking register after the last check or deposit on the statement. If it does, there will be an exclamation of joy from the computer (and possibly you). If not, it will tell you how much you are in error. In eitner case, it will ask you if you would like to see the totals. Entering a 'Y' will cause the program to display all of your entries and thier totals. If the entries and totals are to numerous to list on the screen, the program will list as many as will fit on the screen and then prompt you with 'press enter to continue'. Pressing ENTER will allow the program to finish the list. Answering 'N' to seeing the totals or after listing all of the entries brings up the question 'try again?'. Answering with an 'N' will end the program. If you give it a 'Y', it will give you a menu as to where you would like to re-enter the program. By pressing the number corresponding to the re-entry point, the program will put you back into the program, leaving all amounts previuos to the entry point unchanged and using the new values as you progress through the program again.

I welcome any

suggestions or corrections to the program. I can be reached on just about any night of the week at 626-2423. Just don't ask me to balance your checkbook, I'm still working on mine!

```
100 CALL CLEAR
110 REM LOGO
120 CALL HCHAR(1,3,36,29)
130 CALL VCHAR(1,3,36,24)
140 CALL VCHAR(1,31,36,24)
150 CALL HCHAR(24,3,36,29)
160 FOR LIN1=8 TO 25
170 READ TITLE
180 CALL HCHAR(12,LIN1,TITLE)
190 NEXT LIN1
200 FOR LIN2=8 TO 25
210 READ TITLE
220 CALL HCHAR(19,LIN2,TITLE)
230 NEXT LIN2
240 FOR LINS=10 TO 22
250 READ TITLE
260 CALL HCHAR(21,LIN3,TITLE)
270 NEXT LIN3
280 DATA 67,72,69,67,75,66,79,79,75,32,66,65,76,65,78,67,69,82,85,80,68,65,84,69
,68,32
290 DATA 86.69.82.83.73.79.78.32.66.89.82.73.67.72.32.87.73.76.76.73.65.77.83
300 FOR DELAY=1 TO 1000
310 NEXT DELAY
320 CALL CLEAR
330 REM BANK BALANCE
340 INPUT "BANK BALANCE? $":BALANCE
350 CALL CLEAR
         OUTSTANDING CHECKS
360 REM
370 PRINT "ENTER EACH OUTSTANDING CHECKNUMBER AND AMOUNT."
380 PRINT
390 PRINT "(ENTER A ZERO FOR THE CHECK NUMBER WHEN FINISHED.)"
400 PRINT :::::
410 FOR DELAY=1 TO 10
420 NEXT DELAY
430 PRINT
440 M=0
450 CTOTAL=0
460 N=N+1
470 INPUT "CHECK NUMBER? #":CNUM(N)
480 IF CNUM(N)=0 THEN 530
                              $":CAMT(N)
490 INPUT "CHECK AMOUNT?
500 CTOTAL=CTOTAL+CAMT(N)
510 PRINT :
520 GO TO 460
530 N=N-1
540 CALL CLEAR
        OUTSTANDING DEPOSITS
550 REM
560 PRINT "ENTER EACH OUTSTANDING"
570 FRINT "DEPOSIT AMOUNT."
580 PRINT
590 PRINT "ENTER A ZERO AMOUNT"
600 PRINT "WHEN FINISHED."
610 PPINT
620 M=0
630 DTOTAL=0
640 M=M+1
```

650 INPUT "DEPOSIT AMOUNT? \$":DAMT(M) 660 PRINT : 670 IF DAMT(M)=0 THEN 700 680 DTOTAL=DTOTAL+DAMT(M) 690 GO TO 640 700 M=M-1 710 CALL CLEAR 720 REM INTEREST 730 INPUT "ENTER INTEREST: \$":NTRST 740 FRINT : SERVICE CHARGE 750 REM 760 INPUT "ENTER SERVICE CHARGE: \$":RIPOFF 770 NBAL=BALANCE-CTOTAL+DTOTAL-NTRST+RIPOFF 780 PRINT : 790 PRINT "NEW BALANCE=\$";NBAL 800 PRINT : 810 REM CHECKBOOK BALANCE 820 INPUT "CHECKBOOK BALANCE? \$ ":CBAL 830 IF NBAL=CBAL THEN 920 840 PRINT : 850 PRINT "OOPS! CORRECTION=\$";NBAL-CBAL 860 PRINT : 870 PRINT "DO YOU WISH TO SEE THE TOTALS? EY/NJ " 880 CALL KEY(0.K.S) 890 IF K=89 THEN 1020 900 IF K<>78 THEN 880 910 GOTO 1320 920 CALL CLEAR 930 FOR DONE=3 TO 28 940 CALL HCHAR(12, DONE, ATLAST) 950 READ ATLAST 960 DATA 33.33.33.33.33.66.65.76.65.78.67.69.68.32.65.84.32.76.65.83.84.33.33.33 ,33,33 970 NEXT DONE 980 RESTORE 960 990 FUR DELAY=1 TO 1000 1000 NEXT DELAY 1010 GOTO 870 1020 NOSCROLL=0 1030 IF (N+M)<6 THEN 1050 1040 NOSCROLL=1 1050 CALL CLEAR 1060 PRINT "BANK BALANCE: \$"; BALANCE 1070 PRINT : 1080 PRINT "OUTSTANDING CHECKS:" 1090 FOR Z=1 TO (N) 1100 PRINT CNUM(Z): "\$":CAMT(Z) 1110 NEXT Z 1120 PRINT : 1130 PRINT "THE TOTAL OUTSTANDING CHECKS=\$";CTOTAL 1140 PRINT : 1150 PRINT "THE DEPOSIT AMOUNTS:" 1160 FOR W=1 TO M 1170 PRINT "\$";DAMT(W) 1180 NEXT W 1190 PRINT :

1200 PRINT "THE TOTAL OUTSTANDING DEPOSITS=\$";DTOTAL 1210 PRINT : 1220 IF NOSCROLL=0 THEN 1270 1230 PRINT "PRESS (ENTER) TO CONTINUE." 1240 CALL KEY(0,K,S) 1250 IF K<>13 THEN 1240 1260 PRINT : 1270 PRINT "THE INTEREST=\$";NTRST 1280 PRINT : 1290 PRINT "THE SERVICE CHARGE=\$";RIPOFF 1300 PRINT : 1310 PRINT "CHECKBOOK BALANCE: \$"; CBAL 1320 PRINT 1330 PRINT "TRY AGAIN?EY/N]" 1340 CALL KEY(0,K,S) 1350 IF K=78 THEN 1560 1360 IF K<>89 THEN 1340 1370 CALL CLEAR 1380 PRINT "WHERE WOULD YOU LIKE TO RE-ENTER THE PROGRAM?:" 1390 PRINT 1400 PRINT TAB(5);"1) BANK BALANCE" 1410 PRINT 1420 PRINT TAB(5); "2) OUTSTANDING CHECKS" 1430 PRINT 1440 PRINT TAB(5); "3) OUTSTANDING DEPOSITS" 1450 PRINT 1460 PRINT TAB(5); "4) INTEREST" 1470 PRINT 1480 PRINT TAB(5); "5) SERVICE CHARGE" 1490 PRINT 1500 PRINT TAB(5); "6) CHECKBOOK BALANCE" 1510 CALL KEY(0,K,S) 1520 IF (K<49)+(K>54)THEN 1510 1530 CALL CLEAR 1540 ON K-48 GOTO 330,360,550,720,750,810 1550 CALL CLEAR 1540 END

PROGRAM DEMO

September's meeting will feature program demonstrations from the library. If you would like to see one of our library programs demonstrated or would like to demonstrate one please contact John Tuesday at Ph. 644-2616.

UP-DATED TI WRITER

The Presidents Corner was written this month with the new update of the TI Writer, copies of the updated disk can be obtained from the library, members must provide their own disk.

Deals Deals Deals

Bert Hass has located disks for \$18.00 per 10 pack. Bert says that he can get as many at this price as we can use, also if you are about to get a printer talk to Bert befor you spend \$30 to \$35.00 on a PIO cable. Bert Hass Ph. 628-1019

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Video Titles II from J&KH software is mainly designed for in store demonstrations. With it you can create titles, move them to the screen change thair colors, add sprites, change border design, and more. I think that this software is very good with its ease of use, performance, and graphics. But speed was the sacrifice for the quality of the program. Video Titles II is a good buy and is worth the money. But you cannot use it without a disk drive and extended basic. The documentation isn't too hot but the program does have a reveiw notes function when you first boot. This allows you to understand how to use this program better. Also, this program is almost like a programming language. What I mean is that when you design a title sequence you "program" it to do certain functions as if you were programming in another programming language. Once again I state that Video Titles II is good buy for your money. by Ian Mariano

Presidents Corner

Elections are just around the corner (September meeting) which means that nominations should be submitted during the August Meeting. Norman Sorkin has accepted the job as nonimating committe chairman and will be contacting members for positions. If you would like to serve on the board or know of someone who you feel would serve as an officer or committee member please contact Norman Sorkin at Ph. 678-2360. The following members have consented to run for the following positions: President= John Tuesday, Vice-President= Norman Sorkin, Library= Bert Hass.

The election will be held at 8 PM during the September meeting and the elected officers will take office in October 1984. John Tuesday is in the process of making a voting program to be used on the TI 99 4/A which will enable a secret ballot and the computer will anounce the winners of each office. Membership card must be presented in order to vote, if you do not have a membership card please contact me at Ph 920-1884.

I would like to thank Ian Mariano and Rich Williams for their articles this month. The newsletter needs more articles written by our own members. If you have anything that you think may be of intrest (a program you have written, modified or corrected, an evaluation of a program or module, evaluation of hardware you have purchased, anything) please contact Kathi Anderson at Ph. 923-7530 or Pat Bowen 920-1884.

Best wishes to Norm Sorkin who just underwent surgery this week. Get well soon Norm.

I received a letter from Mike Noble a few days ago and it seems that he will be stuck in "Siberia" longer than expected, other than that he is doing fine. Mikes address is : 125 Crestline #701 Clarksdale, Ms 38614 Ph. 601-624-8567 work 601-745-6611 ext:712 Drop him a line or give him a call.

This article comes to us from the Washington DC Area Users Group, May, 1984. The Gemini 10X Printer

by Chris Boobitt

The Gemin: 10% is bernaps the best printer for it's price anywhere. It has more features than all of the printers in it's price range, as well as features available only on much more excensive printers. On top of that, the printer is excremely easy to use, is fait, and is very versatile.

The Gemin: 10% is packaged in a very attractive blue and white dathing tase. The case is made of durable tarcboard, and the printer itself comes packed in styrofoam and plastic. The case has a built-in panole which mares iransporting the box much easier. It boubles nicely as a carrying case for the printer. Included with the printer is a large, smoked, clear plastic cover. Which has a cutting edge on it to lat it ocuole as a paper cutter for roll paper. Also included is a paper separator to separate the incoming from the outgoing paper, a paper guide, a roll paper colder and paper sheft for roll paper. An inked ribbon with an estimated life of one to two months my estimate), a very nice manual which gives operating instructions for every computer but our own, and a registration card that promises a 90-52. warranty on the printing element and a one year warranty on the printer itself. Also included is an extra fuse for the power supply. Bhort circuiting the printer is not a difficult task. I found but to my imagrin. Simply touch the power supply with a metal screw-priver when the printer is on and you have succeeded. Thank God for Star Micronics's foresight. The printer is, for the most part, assembled when it arrives. Assembly entails putting on the paper separator and pulde, and putting on the mibbon. Which can be frustrating if you don't read the instructions. The printer includes a parallel output, (which is what I prefer; I con't see what people see in serial), and the option of purchasing a serial card or a buffer. Unless you purchase a cable with a printer. You will have to buy one ofor an expresent fee; like I did) from a company that makes cables.

The manual which iomes with the printer covers complete assembly and dissassembly of the printer. But putting the printer together the first time is a snap (literally). The paper guide and separator have been provided with slots in the chasis, but it is a TIGHT fit. The only difficulty you may have putting the printer together may be putting on the ribbon. If all else fails, read the instructions. The ribbon "will last about two months with heavy use, and automatically reverses direction when it gets to the end. The ribbon is a standard typewriter style spool ribbon, with an evelet at each end. These ribbons may be obtained for about \$1.50 each at most office-supply stores.

The control panel of the printer has four LED indicators, as well 38 three buttons. The indicators indicate whether the POWER is on, whether the printer is **READY**, when it is in a mode of PAPER-OUT . The three sensitive buttons on the panel allow you to put the printer on and off line, allow you to form-feed one sneet of paper, and allow you to send a signal to feed the paper up one line. The last two puttons can only be used in the off-line mode. Also included is a built-in self-test. Simply press down either the on-line button and the line-feed putten, or the form-feed and the line-feed button as you turn the printer on to get a complete list of the regular and italic character sets. External controls include an on-off switch (obviously), and a set of preset dip switches on the back as well as on the inside of the printer. These switches were named after people who love to press buttons and pull switches. Unless you intend to make semi-permanent changes in the character sets or in some basic paper handling routines, these switches are pest left alone. However Star Micronics again supports stupid people by giving a list of all the switches and their original state. so if you (like I did) mess up when setting the ewitches, you can always consult the manual. All the features available through the dip-switches can be duplicated in your software.

The printer has a whole slew of software support features. Through the use of the versatile CHR\$ command you can send commands to the printer which allow you to change virtually every aspect of printing. You can select one of the eight available foreign character sets, set the print pitch to pica elite. set it to superscript or subscript, tell the printer to print in Dr condensed (136 columns) or double-width mode (40 columns), and basically get what you want done, how you want it done. The print is good enough to pass for letter quality in the normal-size print mode, but looks even better in the condensed mode. One feature of the printer which is very uncommon among printers of this price range; you can define what is called a "macro instruction". This instruction allows you to define a single command to represent up to 15 printer functions, which will all be executed when the single command is. Believe me, this really simplifies some hard tasks. Also available are bit image graphics in low resolution, high resolution at souble the speed, and quadruple density (240 dots-per-inch!). You can even put your printer offline through the use of one of the multitude of available printer functions. If you are brave enough, you can attempt to define your own character set. The only drawback with this is you will have to load it in every time you want to use the set, or keep the printer on around-the-clock.

The printer is quiet. When not working you can only tell it's on bv it's LEDs (this is probably why they included them). When the printer is plasting away at full speed, 120 characters-per-second, it is quite audible. But with the hood on it is quite acceptable. You don't even notice it after a while, it not being too much noisier than the fan in the P-Box. Epsons tend to beat other printers on this point. But I will take my Gemini anyday for reliability and features. In speed tests, the Gemini 10X ALWAYS beats both the Epson printers, even the one that goes 160 CPS (referance: Byte magazine. last month's issue). This is primarily because the Gemini 10X has a much faster line feed. The Gemin: has been done with a page for five to ten seconds before the Epech gets around to finishing. Unless you have a buffer. this is a pretty nice feature. The form feed of the Gemini 10X is also faster than that of the Epsons . Overall, I believe the Gemini 10X is a much better buy for the money. I base my opinion on it's flexibility (it takes single-sneet, roll, and tractor paper), quality (six month's and not a difficulty yet), speed (mentioned above), and versatility (I haven't even experimented with a lot of the available functions). The Gemini has beautiful characters and graphics. and it can even use graphic programs designed for the Epson printers (as well as the TI printer) with few if anv modifications.

The Gemini 10X is available for \$300 on up at retail establishments, but can be purchased for \$250 on up by mail. The parallel cable (and obviously the RS232 and P-Box) are not included. Cables can be had from many places for a semi-reasonable price, which means they will only charge you an arm, out not a leg. for a three foot piece of ribbon cable. Bye...

On the next page is an article from THE HUGGERS HOOSIER USERS GROUP, July 1984.

BEST OF THE NEWSLETTER!

HEART AND SOUL OF PERSONAL RECORD KEEPING, PART III

by Don Donlan

INSERT THE P-R-K COMMAND MODULE AND USE THE SUBPROGRAMS THAT ARE 100 REM 110 REM RESIDENT THERE TO CREATE TWO SEPARATE DISK FILES: ONE IS THE 120 REM P-R-K HEADER RECORD THAT DESCRIBES THE STRUCTURE OF THE DATA: 130 REM THE OTHER IS A FILE OF THE DATA ITSELF. 140 REM BEFORE LOADING THIS BASIC PROGRAM...... 150 REM EXECUTE THE FOLLOWING THREE BASIC COMMANDS: 160 REM > CALL FILES(1) 170 REM > CALL P(10000) [To prepare a data area.] 180 REM > NEW [To clear out any old data.] 190 REM Now load and run the following program. Each line will be followed 200 REM by a comment about the purpose of that statement. 220 CALL L(*DSK1.PRKFILE*,C) REM Load data file into reserved area. 230 IF C=0 THEN 650 REM Check error indicator: 0=failure, non-0=0.K. 240 OPEN #1: "DSK1.PRKHEADER", RELATIVE, INTERNAL, OUTPUT, FIXED 250 CALL H(1,1,0,F\$) REM Read the internal file name. REM Read the number of fields per record. 260 CALL H(1,5,0,F) REM Read the number of records in the file. 270 CALL H(1,6,0,R) 280 PRINT #1:F\$,F,R REM Write Header File record. 290 PRINT F\$;F;R REM Print this information on the screen. 300 FOR I=1 TO F REM Begin a loop to write field definitions. REM Read the field name. 310 CALL H(1,9,I,F\$) REM Read the field type. 320 CALL H(1,10,I,T) REM Read the field width or size. 330 CALL H(1,11,I,W)REM Field is alpha (TYPE is not equal to 1) 340 IF T<>1 THEN 370 REM So add width + 1 to record size. 350 S=S+W+1 360 GOTO 380 REM Then skip around next lines of code. REM With numeric field, add 9 to record size. 370 S=S+9 REM Read the number of decimal places. 380 CALL H(1, 12, I, D)390 PRINT #1,REC I:F\$,T,W.D REM Write this information to HEADER file. REM Print this information to the screen, too. 400 PRINT F\$;T;W;D REM Return to write remaining field definitions. 410 NEXT I REM Close the HEADER; open DATA file when done. 420 CLOSE #1 430 OPEN #1: "DSK1.PRKDATA", SEQUENTIAL, INTERNAL, OUTPUT, VARIABLE S+2 REM Set up a loop to read records and print DATA. 440 FOR I=1 TO R 450 PRINT I REM Print record number to the screen. REM Set up a loop to read fields in each record. 460 FOR J=1 TO F REM Read the field type. 470 CALL H(1,10,J,T) REM Determine if field is alpha or numeric. 480 IF T=1 THEN 540 REM For numeric, retrieve data in a numeric var. 490 CALL G(1,I,J,C,D) REM If 'missing data' code is not 0, 500 IF C=0 THEN 520 REM enter a default value that can be tested for; 510 D=-9.9999999999999E+127 REM otherwise, print the numeric data to the file 520 PRINT #1:D; 525 PRINT D; REM and to the screen. REM go around the lines that handle alpha DATA. 530 GOTO 590 REM Retreive character data into a character var. 540 CALL G(1,I,J,C,F\$) REM If 'missing data' code is not 0, 550 IF C=0 THEN 570 REM enter a default value that can be tested for; 560 F\$="?" REM otherwise, print the alpha data to the file 570 PRINT #1:F\$; REM and to the screen (with an additional blank). 580 PRINT F\$;" "; REM Go to the next field within the record. 590 NEXT J REM Finish by printing the entire record to file. 600 PRINT #1:"@" REM Finish pending print to the screen, too. 610 PRINT REM Go on to process the next record in the file. 620 NEXT I REM Close the DATA file. 630 CLOSE #1 REM Stop or End program execution. 640 STOP REM Error message if load fails. 650 PRINT "ERROR IN LOADING PRK FILE." 660 STOP

This article comes to us from the Boise 99'ers Computer Club, July 1984 issue.

99/4A MINI ORGAN

By: J.D. Canning

The following short program converts the keyboard of the 99/4A into an electronic organ. It scans each side of the keyboard so two notes may be played at one time completely independently of one other.

The numbers in the DATA statement are simply the frequencies that I have assigned to each key. For more information, refer to your TI reference manual that was supplied with your computer.

100 REM MINI TI ORGAN
110 REM **********
120 REM JUNE 1984 JDC
130 REM ***********
140 REM
150 OPTION BASE O
160 DIM NOTE(20)
170 REM
180 REM ***********
190 REM READ NOTE FREQ
200 REM ***********
210 REM
220 FOR I=0 TO 20
230 READ NOTE(I)
240 NEXT I
250 DATA 40000,220,247,262,294,3
30, 349, 392, 440, 494, 523, 587, 659, 6
98,784,880,988,1047,1175,1319,13
97
20

251 REM 252 REM *************** 253 REM CLEAR DISPLAY 254 REM ************* 255 REM 256 CALL CLEAR 257 DISPLAY TAB(7);"TI MINI DRGA N"::::::::::::: 260 REM 270 REM *********** 280 REM SCAN KEYS 290 REM ************ 300 REM 310 CALL KEY(1,K1,S) 320 CALL KEY(2,K2,S) 330 REM 340 REM ************* 350 REM CONVERT DATA 360 REM ************ 370 REM 380 K1=K1+1 390 K2=K2+1 400 REM 410 REM ************ 420 REM PLAY NOTE & REDO 430 REM ************** 440 REM 450 CALL SDUND(-1000,NDTE(K1),0, NDTE(K2)+0) -460 GDTD 310

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LIST OF BOARD MEMBERS AND THEIR HOME PHONE NUMBERS

President, Pat Bowen	920 1 884
Vice President, Norm Sorkin	678 - 2360
Librarian, Leroy Martin	666 -3 984
V.P. Program, John Tuesday	
Secretary,	
Treasurer, Betty Duncan	633 - 5217
Educational Director, John Curry	929 - 8824
Editor, Kathi Anderson	923 - 7530

I would like to thank all that contributed to this month's newsletter. See you at the meeting.

Kathi Anderson, Editor

SUMMIT'99ers USERS GROUP Kathi Anderson, Editor 3240 Bailey Road Cuyahoga Falls, Ohio 44221

