

# CLEVELAND AREA TI-994/A USER GROUPS NEWSLETTER JANUARY, 1990

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This is one of those "Good News, Bad News" situations. The good news is that we are going to first-class mailing for our newsletter and you should always receive it before the next meeting.

We want to give a big thanks to Tom Nellis and Bruce Young who have handled the thankless job of folding, stapling and mailing the newsletter for the past four years. I know that lots of times these guys were at it at 10:30 and 11:00 p.m. at night in order to meet our deadline and hopefully have your newsletter delivered on time. The fact that it didn't make it all the time certainly was not because we weren't trying.

The bad news comes in two forms. In order for our postage for first class to come in at 25 cents, we will have to cut one physical page, or two pages of news. From now on, the newsletter will be only 10 pages. Hopefully, we can continue to pack it as full as possible with quality information.

The second bit of bad news comes because we are going to have to cut down our exchange clubs to help keep our costs down. This is a difficult decision to make as we have always sent newsletters to any club who sent to us. Unfortunately, our cut will probably hurt some of the smaller clubs who need us the most. If you see a "Last" on your mailing label, it indicates that this is your last mailing. We have figured our costs to produce and mail the newsletter and invite any of those clubs with a "last" on their mailing label to subscribe to our newsletter at a special rate of \$11.00 per year. This is not the way we would like to make this announcement, but as with all clubs we have to make sure we have enough money in our treasury to keep producing a newsletter, and this is the only way we can do it.

We had a major addition to our library this past month, and since the weather has been so bad lately and cut down on our attendance, we have decided to include the listing in this newsletter. (It also made things easier for your Editor over the holidays). There were over 60 disks and over 60 programs. I am continuing to check in on Genie and

CompuServe at least once a month. There hasn't been much going on lately, but we should have half a dozen or so new programs each month. All that I had downloaded as of the last meeting date are included in the update in this newsletter.

Please take note now that for the February Northcoast meeting, we are planning on having a swap meet. The major purpose behind this swap meet is to try and match up those who would be no longer using their TI equipment and those in our clubs who want to upgrade their systems. The middle of January we plan to send postcards to past members of TI CHIPS and NorthCoast hoping to bring those two groups together. If you know of any past members in the selling category, please advise them of this event. We encourage both CHIP and NorthCoast members to come as we hope this effort will help buyers and sellers in both clubs.

Again, thanks to all our regular contributors who help make our newsletter one of the best in the country with our tutorials, reviews, original programs, etc. If you make any kind of New Year's resolution, we hope it is one that you will become involved in one of our clubs. It is inevitable that the TI world will continue to shrink. However, it is still one dandy home computer and has a lot of use left for the hobbyist. There is more software and hardware options available at a reasonable price than ever before. Everyone's help is needed to keep us going. See you at the next meeting!

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Wow! this could be one of those winters. Eighteen inches of snow on the east side of Cleveland, seven degrees and twenty five mile an hour winds. It wasn't quite that bad at the Euclid Square Mall, but out in Mentor it took two and a half hours to get out of my driveway. About twenty people still showed up for the meeting, "Wow!". After all that bad stuff we had a pretty good meeting. The members seemed very interested in my FunnelWeb Demonstration and the question and answer session was exceptional. I never got to the TI-Base part of the Demo because we ran out of time. Because there seems to be a real interest in this area, I will try to do several more demos, or mini demos, in the FunnelWeb/TI-Base area next year.

## THE NEWSLETTER

There are some major changes coming in the Newsletter. Unfortunately Tom Nellis and Bruce Young no longer have the time to work on our Newsletter. Tom and Bruce picked up the bulk Newsletters. They folded, stapled, placed the postage and mailing labels on them. Then they sorted, bundled and delivered them to the post office. Tom and Bruce have been doing this for over four years and we all thank them greatly for the massive job they have done towards our clubs success. Because of this situation we have decided to make several changes to the Newsletter. Members of TI-Chips have volunteered to do the folding and labeling process, but we will not remain with the bulk rate postage. Because we have ample money in the treasury, and also because we have had numerous complaints about the post office's late deliveries of the Newsletter, we will mail the Newsletter First Class. This will assure prompt delivery and eliminate the need for sorting and bundling. This will create one problem. In order to reduce the weight of the Newsletter to less than one ounce, we must drop from 12 pages to 10 pages. This will allow the Newsletter to be mailed for 25 cents, and make the whole proposition feasible.

## THE FEBRUARY SWAP MEET

The February meeting will not have a Demo. It will be a swap meet. We intend to try to contact as many past members as possible concerning this meeting. It could be a great way for those un-interested past members to get rid of their TI Computers. It could also be a great way for our current members to pick up some real bargains.

## THE LIBRARY WILL BE THERE

I will bring the Disk Library to the February Swap meet. Bring blank disks and I will make copies for members during the meeting. NOTE: I need disk numbers. Know what you want before you get there.

## THE NEXT NORTHCOAST MEETING

I was not able to change the date of the January Meeting as we discussed at the last meeting. Therefore, the January Meeting will be held on its regular date, the third Saturday, which is Jan. 20, but it will be held in the smaller meeting room. Remember the date "01/20/90", the third Saturday. Wes Richardson will demonstrate his Extended Basic checkbook program at the January meeting and will probably include a bunch of great tips on programming in Extended Basic.

See you all at the next meeting. Marty

Extremely cold temperatures and about eight inches of fresh snow did not keep about twenty people away from the December holiday meeting. Christmas music was provided by the TI and cookies and treats by the members. Thanks to all who contributed.

I hope you tried the list of Christmas music programs listed last month. Harry Hoffman made up a new disk with a collection of some of the songs scattered on other disks in the library. He had copies of that and disk 5Q1 ready for distribution.

Major decisions about this newsletter's distribution were made. Both Cleveland clubs will share the responsibility for getting it out each month. Northcoast will continue to edit and print the paper and TI-Chips will handle the mailing. A motion was passed to have the cost of first-class postage absorbed by the current dues structure. If costs rise too much, a decision can be made at a later date about how to best cost the costs. TI-Chips members Jan Fedor and Helen Hoffman volunteered to do the mailing of the January newsletter.

Matt Auel provided a demonstration of the new TI-Artist Plus. This improved program comes on three single-sided disks and loads from Extended Basic or Editor-Assembler. Matt recommended the program and found the biggest changes were in the vector and print sections.

In honor of the season, Les Kee presented an Extended Basic program to wish all a "Merry Christmas and a Happy New Year." It added to the festive mood of the day.

One of the happiest members at the meeting was Dennis Likens. He was the lucky winner of the monthly disk raffle. Congratulations!

Happy New Year to Everyone!

## A "CALL KEY" SCREEN SAVER OOPS!

By Glenn Bernasek  
TI-Chips Cleveland, Ohio

While belatedly looking over my "CALL KEY" Screen Saver sub-routine and line insert, I found that I had inadvertently omitted a statement in the CALL KEY line (bbb) insertion. I had forgotten to tell the routine when to stop counting to 5000 and reset COUNT to zero!

Here's what line "bbb" of the "generalized" example program, as appeared in the December issue of the CLEVELAND AREA TI-99/4A USER GROUPS NEWSLETTER, should look like:

```
bbb CALL KEY(0,K,S) :: COUNT=COUNT+1 ::
IF COUNT>5000 THEN GOSUB 20000 ::
GOTO aaa ELSE IF S=0 THEN bbb ELSE
COUNT=0
```

Actually the Screen Saver CALL KEY insert would work without the additional ELSE COUNT=0 statement, but the program would continue to count to 5000 every time the CALL KEY section came up. This is why COUNT is re-set to zero each time a key has been pressed.

If you have any questions, my name and phone are on the masthead of this newsletter.



# CHECKS-OUT

by WESLEY R. RICHARDSON  
NORTHCOAST 99ER'S, CLEVELAND, OH

This program is for people who have a balanced checkbook, but would like to know which checks have cleared the bank before they receive their monthly statement. The output can be to screen, printer, or disk. If you want it to disk, just change the printer name from PIO to DSK1.FILENAME for example. If you wish to see the status of check combinations, answer 'Y' to the status question, although this will slow down the program. The status code is from left to right, largest to smallest check amount, and '1' means the check is included in the calculation.

To use the program, enter your checkbook balance, the current bank balance, usually from an automatic teller machine, and all outstanding checks, up to 30, in your current checkbook balance. The program will then give you all combinations of checks which equal the difference between you and the bank. Do not enter any deposits. If you have made a deposit which is not reflected in the bank balance, subtract that amount from your checkbook balance for this program.

CHECKBOOK BALANCE: 260.08  
BANK BALANCE: 1185.29  
DIFFERENCE: 925.21

## LISTING OF ALL CHECKS:

### CHECKS OUTSTANDING COMBINATION 0

85.59	76.30	227.25	16.95	105.60	13.09
49.00	19.97	90.00	18.00	72.22	15.00
337.25	99.00	40.00	32.79	65.86	10.00

TOTAL OF ALL CHECKS: 1373.87

SET OF POSSIBLE CHECKS OUTSTANDING TOTAL 925.21

### CHECKS OUTSTANDING COMBINATION 1

337.25	227.25	99.00	90.00	65.86	40.00
32.79	19.97	13.09			

### CHECKS OUTSTANDING COMBINATION 2

337.25	227.25	85.59	72.22	65.86	49.00
40.00	18.00	16.95	13.09		

### CHECKS OUTSTANDING COMBINATION 3

337.25	99.00	90.00	85.59	76.30	72.22
49.00	40.00	32.79	19.97	13.09	10.00

NO FURTHER MATCHES

```
100 REM CHECKS-OUT
110 REM WESLEY R. RICHARDSON, DEC 1989
120 REM TI-99/4A EXTENDED BASIC
130 REM NORTHCOAST 99ER'S CLEVELAND, O
    H
140 REM VARIABLES A(30),B1,B2,B3,B4,C(
    30),C$,D(30),I,J,K,L,P$,Q$,R$,S,W
150 DIM A(30),C(30),D(30)
160 CALL CLEAR :: R$="N" :: D$="####.
    ## " :: CALL CHAR(64,"8888A8DE0A0E
    0A09")
170 DISPLAY AT(1,6):"CHECKS OUTSTANDIN
    G" :: DISPLAY AT(2,3):"by WESLEY R
    . RICHARDSON"
180 DISPLAY AT(4,2):"DOCUMENTATION IS
    CHECKS-DOC" :: DISPLAY AT(6,2):"FI
    LE, READ USING TI-WRITER."
190 GOSUB 1030 :: DISPLAY AT(4,2):"":"
    ":",""
200 DISPLAY AT(4,3):"OUTPUT TO PRINTER
    (Y/N)?"
210 GOSUB 1040 :: IF (K<>89)*(K<>121)T
    HEN 240
220 DISPLAY AT(6,2):"PRINTER?: PIO" ::
    ACCEPT AT(6,12)SIZE(-15):P$
230 Q$="Y" :: OPEN #1:P$
240 DISPLAY AT(6,1):"" :: DISPLAY AT(4
    ,1):"SHOW RUNNING STATUS? (Y/N)"
250 DISPLAY AT(6,1):"NOTE: CHOOSE YES
    ONLY FOR" :: DISPLAY AT(7,1):"DEMO
    NSTRATION PURPOSES,"
260 DISPLAY AT(8,1):"RUN TIMES ARE 3X
    AS LONG" :: DISPLAY AT(9,1):"WITH
    STATUS ON."
270 GOSUB 1040 :: IF (K<>89)*(K<>121)T
    HEN 280 ELSE R$="Y"
280 DISPLAY AT(6,1):"":""":""":"""
290 DISPLAY AT(4,1):"CHECKBOOK BALANCE
    ?" :: ACCEPT AT(4,20)SIZE(8)VALIDA
    TE(NUMERIC):B1 :: DISPLAY AT(4,20)
    :USING D$:B1
300 IF Q$="Y" THEN PRINT #1,USING "CHE
    CKBOOK BALANCE: "&D$:B1
310 DISPLAY AT(6,6):"BANK BALANCE?" ::
    ACCEPT AT(6,20)SIZE(8)VALIDATE(NU
    MERIC):B2 :: DISPLAY AT(6,20):USIN
    G D$:B2
320 IF Q$="Y" THEN PRINT #1,USING "
    BANK BALANCE: "&D$:B2
330 B3=B2-B1 :: DISPLAY AT(8,8):"DIFFE
    RENCE:" :: DISPLAY AT(8,20):USING
    D$:B3
340 IF Q$="Y" THEN PRINT #1,USING "
    DIFFERENCE: "&D$:B3
350 DISPLAY AT(16,2):"ENTER 0 AFTER LA
    ST CHECK"
360 FOR I=1 TO 30 :: DISPLAY AT(10,10)
    :USING "PREVIOUS: "&D$:C(I-1)
```

...CHECKS-OUT

```

370 DISPLAY AT(12,10):USING "CHECK ##?
    ":I :: ACCEPT AT(12,20)SIZE(8)VALI
    DATE(NUMERIC):C(I)
380 IF C(I)>=0 THEN 400
390 DISPLAY AT(12,20):"" :: DISPLAY AT
    (14,6):"MUST BE POSITIVE" :: GOSUB
    1030 :: DISPLAY AT(14,2):"" :: GO
    TO 370
400 IF C(I)<99999.99 THEN 420
410 DISPLAY AT(12,20):"" :: DISPLAY AT
    (14,6):"99999.99 MAXIMUM" :: GOSUB
    1030 :: DISPLAY AT(14,2):"" :: GO
    TO 370
420 B4=B4+C(I):: DISPLAY AT(22,7):USIN
    G "CHECK TOTAL: "SD$:B4
430 IF C(I)=0 THEN 450
440 NEXT I
450 IF I<1 THEN 890
460 I=I-1 :: FOR K=I TO 30 :: A(K)=0 :
    : NEXT K :: FOR K=1 TO I :: A(K)=1
    :: NEXT K
470 DISPLAY AT(10,2):"LISTING OF ALL C
    HECKS"
480 IF Q$="Y" THEN PRINT #1:"LISTING O
    F ALL CHECKS:"
490 GOSUB 930 :: GOSUB 1030
500 IF Q$="Y" THEN PRINT #1,USING "TOT
    AL OF ALL CHECKS: "SD$:B4 :: PRINT
    #1:""
510 IF Q$="Y" THEN PRINT #1,USING "SET
    S OF POSSIBLE CHECKS OUTSTANDING T
    HAT TOTAL "SD$:B3
520 DISPLAY AT(10,1):"" :: DISPLAY AT(
    22,7):" SORTING..."
530 K=0
540 FOR J=1 TO I-1
550 IF C(J)>=C(J+1)THEN 570
560 K=1 :: C(0)=C(J+1):: C(J+1)=C(J)::
    C(J)=C(0)
570 NEXT J
580 IF K<>0 THEN 530
590 GOSUB 1050
600 REM INITIALIZE
610 REM MAIN LOOP
620 IF B4=B3 THEN 840
630 IF R$<>"Y" THEN 670
640 FOR L=1 TO 15 :: CALL HCHAR(11,L+8
    ,48+A(L)):: NEXT L
650 FOR L=16 TO 30 :: CALL HCHAR(12,L-
    7,48+A(L)):: NEXT L
660 DISPLAY AT(14,20):USING D$:B4
670 IF B4>B3 THEN 770
680 REM B4<B3
690 CALL HCHAR(2,28,32):: FOR K=I TO 1
    STEP -1
700 IF A(K)=0 THEN B4=B4+C(K):: A(K)=1
    :: GOTO 720

```

```

710 NEXT K :: GOTO 890
720 IF K=1 THEN 890
730 FOR J=K-1 TO 1 STEP -1
740 IF A(J)=1 THEN B4=B4-C(J):: A(J)=0
    :: GOTO 620
750 B4=B4+C(J):: A(J)=1
760 NEXT J :: GOTO 890
770 REM B4>B3
780 CALL HCHAR(2,28,64):: FOR K=I TO 1
    STEP -1
790 IF A(K)=0 THEN 820
800 IF (B4-B3)>C(K)THEN B4=B4-C(K):: A
    (K)=0 :: GOTO 820
810 GOTO 830
820 NEXT K
830 A(K)=0 :: B4=B4-C(K):: FOR J=I TO
    K+1 STEP -1 :: A(J)=1 :: B4=B4+C(J
    ):: NEXT J :: GOTO 620
840 W=W+1 :: CALL SOUND(200,1320,0)::
    GOSUB 1050 :: GOSUB 930
850 DISPLAY AT(22,2):"POSSIBLE CHECKS
    OUTSTANDING" :: DISPLAY AT(23,5):"
    COMBINATION NUMBER";W :: IF Q$="Y"
    THEN 870
860 GOSUB 1030
870 IF R$="Y" THEN GOSUB 1050
880 GOTO 680
890 DISPLAY AT(22,2):" NO FURTHER M
    ATCHES"
900 IF Q$="Y" THEN PRINT #1:"NO FURTHE
    R MATCHES" :: PRINT #1:"" :: CLOSE
    #1
910 GOSUB 1030
920 STOP
930 GOSUB 1050 :: S=0 :: FOR K=1 TO I
940 IF A(K)=1 THEN S=S+1 :: DISPLAY AT
    (10+(S+1)/3,2+9*(S+2-3*INT((S+2)/3
    ))):USING D$:C(K)
950 NEXT K
960 IF Q$<>"Y" THEN 1020
970 PRINT #1:"CHECKS OUTSTANDING COMBI
    NATION";W
980 S=0 :: FOR K=1 TO I
990 IF A(K)=1 THEN S=S+1 :: PRINT #1,U
    SING D$S" ":C(K);
1000 IF S=6 THEN PRINT #1:"" :: S=0
1010 NEXT K :: PRINT #1:"" :: PRINT #1:
    ""
1020 RETURN
1030 DISPLAY AT(24,9):"PRESS ANY KEY"
1040 CALL KEY(0,K,S):: IF S=0 THEN 1040
    ELSE DISPLAY AT(24,1):"" :: RETUR
    N
1050 FOR K=11 TO 20 :: DISPLAY AT(K,1):
    "" :: NEXT K :: RETURN
1060 END

```



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 TUTORIAL 14.2.1 By Martin Smoley  
 NorthCoast 99'ers - Dec. 16, 1989  
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**FORTST9**

```

CLOSE ALL
USE CHKBK
PRINT (Drft), (f)
* (1)
* PRINT ALL ;FOR CHKNO="      "
* ----- *
* (2)
* PRINT ALL ;FOR ((CHKNO>" 269").AND.;
*              (CHKNO<" 276"))
* ----- *
* (3)
* PRINT ALL ;FOR ((DATE>"02/29/89").AND.;
*              (DATE<"04/00/89"))
* ----- *
* (4)
* PRINT ALL ;FOR ((DATE>"02/29/89").AND.;
* (DATE<"04/00/89")).OR. (CHKNO="      ")
* ----- *
* (5)
* PRINT ALL ;FOR (DATE<"01/01/89").OR.;
* ((CHKNO>"      ").AND. (DATE="00/00/00"))
* ----- *
* (6)
* PRINT ALL ;FOR (DATE>"09/29/88").AND.;
* (DATE<"04/00/89").AND. (CHKNO="      ");
* .AND. (DEP'CREDIT< .01)
* ----- *
* (7)
* PRINT ALL ;FOR ((DATE>"02/29/89").AND.;
* (DATE<"04/00/89")).AND. ((CHKNO="      ");
* .OR. (REMARKS="Gas      ,"))
* ----- *
* (8)
* DISPLAY ALL DATE,DEP'CREDIT,BALANCE ;
* ;FOR CHKNO="      "
* ----- *
* (9)
* DISPLAY ALL DATE,DEP'CREDIT,BALANCE ;
* ;FOR ((DATE>"02/29/89").AND.;
* (DATE<"04/00/89")).AND. ((CHKNO="      ");
* .OR. (REMARKS="Gas      ,"))
* ----- *
CLOSE ALL
PRINT (Drft), (E)
RETURN Copyright Martin A. Smoley 1989
* ;FOR clause demonstrations.
  
```

This is a continuation of last month tutorial. The Databases I used last month are not important, and you need not type them in. I hope that my rambling explanations of the TI-Base language will give you enough information to adapt the CFs I present to your own Dbs, without the need to create all my examples. I also hope to give you more information about how I write my own CFs, find bugs in those CFs and reconstruct those CFs to produce the end results which are needed.

Last month I gave you FORTST1. This month we have FORTST9. I created this CF for your benefit, but I have done the same thing for myself in the past. All nine statements will work if the asterisks are removed from the beginning of those lines, as in number (9). However, we'll start at the top. As I have stated previously, the first thing I like to do is CLOSE ALL of the Dbs that I may have forgotten in an open condition. Next I USE CHKBK. In this way I have TIB keep track of what I am doing and I also have a visual reference to the name of the DB (CHKBK) this CF handles. Remember, without changing the fieldnames this CF or the commands in it will only work on the DB named CHKBK. "PRINT (Drft),(f)", is my personal printer setup. (Drft), is my command to reset the printer back to a simple draft mode and (f) is my command to set the printer to condensed mode. You will notice that before I leave this CF I reset my printer and then set it to Emphasized (E) mode. These are my personal preferences, so you may substitute your own or leave these lines out of the CF. Remember, each of the nine commands in FORTST9 can be used in a CF, as I have, or by themselves if typed in as a command line. Command (1) is fairly simple. It says PRINT ALL of the Fields that are contained in all the Records that have blank check numbers, (;FOR CHKNO=" "). In the case of CHKBK, only record numbers 85 through 97 would be printed. Suppose you wanted to see the Records for check numbers 270, 271, 272, 273, 274 and 275. Command (2) will print those records for you. These commands are quite simple but at the same time they are very very tricky, because you must tell TIB ((EXACTLY!!!)) what to do. This EXACTLY! business is the part that discourages many programmers. Let's take a quick look at this EXACTLY stuff. There is no way to tell TIB (in loose terms), that I want to see the data from 270 through 275. I know that these numbers fall between (but do not include) 269 and 276, notice the (and). Between 269 and 276 sounds gramatically correct, between 269 or 276 does not. It's more complicated than that, but this is a good way to keep yourself straight as far as .AND. and .OR. are concerned. .AND., will give you the records between 269 AND 276, but .OR. (in this case), would give you all the records in the Db. So now we have two distinct qualifications for a record to be printed. It's CHKNO must be greater than (>) 269 and less than (<) 276, or CHKNO>269 and CHKNO<276. "Sounds pretty close doesn't it? Well it's not." For one thing we must tell TIB every detail about the data it will encounter in the CHKNO field. For instance the quotation marks, ("1234"). The quotation marks tell TIB that when it looks into the CHKNO field it will see a character (C) type field. TIB must know this. If you look at the end of Command (6) you will see (DEP'CREDIT< .01). In that command TIB will be looking for a numeric (N) type field and the quotes must not be used. Also Note that the CHKNO field is 4 characters wide, with a space in column one (" 269").

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TUTORIAL 14.2.2 By Martin Smoley  
NorthCoast 99'ers - Dec. 16, 1989  
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Both the width and justification of a character type field are important. TIB would not find a match for "273 ", because the space is in the wrong place. TIB also needs to know that (CHKNO>" 269") is one small but complete question which it must answer. Thus the reason for the parenthesis. I have also placed parenthesis around the upper search limit (CHKNO(>" 276"), and for myself, I placed parenthesis around the whole thing. The outer parenthesis are helpful when more queries are added to a ;FOR clause. Take a look at number (3). I took a copy of number (2) and changed our field of interest. My idea was to find everything (deposits , debits etc.) for March (03/nn/nn). Because February could have 29 days, I set our low limit to "02/29/89". I then set the high limit to April (04/00/89). Because I did not want items from either Feb. or April, I made the command (DATE>"February") and (DATE<"April"). I told TIB that it would be looking for a date (D) type field "nn/nn/nn" and I used quotation marks. Note: All nine of the commands in FORTST9 work, but they are to demonstrate the makeup of command lines and not necessarily to find meaningful data. You should also take note of the way I break my lines in this CF. The Command Processor will only read lines up to 40 characters in length. You can continue a command line, in a CF, up to 255 characters by placing a semicolon at the end of each line (40 chars. or less) and continuing on the next line down, as you see in FORTST9. TIB does not require that you start the next line at the very beginning or far right column, see (2) and (3). So this is the way I like things. If you do not need every space then don't fill every space, waste space. Stop a line before column 40 at a convenient, easy to read, easy to understand, eye pleasing spot. Start and stop the next line under the same conditions. You will notice in (2) and (3) that I have even lined up the parts of my ;FOR limits directly above and below each other. This allows me to easily see what I am doing and to check for matching quotation marks or parenthesis. While you are writing the program you will remember everything, but if you must make a change six months after the program is finished, you won't have the slightest idea what you had in mind when you wrote it. OK, back to the CF. Number (4) is a slightly more complicated set of limitations. You should see that (4) is a direct copy of (3) with the addition of ".OR.(CHKNO=>" )", which is actually the same as number (1). In many cases where I have complicated problems I find it easier to solve pieces of that problem separately, such as (1) and (3), and then combine the pieces, such as (4), to handle the whole problem in one shot. Number (4) will print all records for March "03/nn/nn" and it will also print all records that have no check number (CHKNO). You should think of ".OR." as "Either Or" and you should think of ".AND." as "Must satisfy both, or more than one requirement". In this command TIB will think (if the record is either for March OR it has no check number print it). Buried within the statement on the left hand side is the March limitation, which says that the DATE must fall above "02/29/89" and below "04/00/89". "Figuring out these examples is making me crazy, it must be doing the same thing to you." I created number (5) to reinforce the thought that an .AND. requires more than one portion of the clause to be true. I have enclosed the two items that are directly related to the .AND. in parenthesis.

This should remind me that they must both be true. Command number (6) is to demonstrate that several .AND.s or .OR.s can be used in the same statement. In the case of number (6), all four of the requirements must be true before a record will be printed. In number (7) three items must be true. The two DATE items must be true and either the (CHKNO=>" ) must be true .OR. the (DEP'CREDIT<.01) must be true. Number (8) is roughly number (1) and number (9) is roughly number (7). In these two I am merely showing that DISPLAY is interchangeable with PRINT, and that you can request that specific fields be DISPLAYed or PRINTed rather than the complete record. It's interesting to note that (REMARKS=>"Gas ,") will be found if REMARKS has no characters other than Gas ,. I am covering this as thoroughly as possible and I will probably cover it again because the logic used with the ;FOR clause is the same as that used with IF or WHILE statements. They must be understood clearly if you are to recognize the logic which is built into TI-Base.

```
* MOVE NUMBERS TO CHKBK   FLCKBKP/C
SELECT 2
USE CHKBK
SELECT 1
USE BILLS
WHILE .NOT. (EOF)
  SELECT 2
  PRINT
  FIND 1.PCHK
  * NOTE: TIB is looking through CHKBK
  * and attempting to find a match for
  * PCHK, which is the Phone Check No.
  * in BILLS. CHKBK must be SORTed ON
  * CHKNO for FIND to work.
  PRINT
  IF .NOT. (EOF)
    REPLACE 2.DATE WITH 1.MODATE
    REPLACE 2.PAY'DEBIT WITH 1.PHONE
    REPLACE REMARKS WITH "Phone ,"
  ENDIF
  SELECT 1
  MOVE
  PRINT
  ENDWHILE
CLOSE ALL
RETURN Copyright Martin A. Smoley 1989
```

Let's go back to the CF named FLCHKBKP/C for just a moment or two. When I first wrote it, it was a piece of junk. It wasn't worth beans. I got a "database not sorted" error message, I selected the wrong slots and I was trying to move data to and from the wrong fields. If you think that you are the only one who makes mistakes, your wrong. My favorite debugging tool, aside from watching the screen for asterisks and error messages, is PRINT. If you place the command PRINT at a key, or problem spot in the CF, TIB will print out the DB Heading and the complete record it is using at that moment. I find this technique to be most helpful after a SELECT or SELECT, MOVE. I watch the CF scroll up the screen and when my printer dumps some data I hold the spacebar to stop the CF. I can then observe the CF on the screen and read the record which has been printed, to see if the CF is actually where I thought it was. I can then press the S key to get TIB started again.

Continued Next Month.



TI-SHORT SHEET III - ZZ8

Version 3.0 of Glenn Bernasek's mini-spreadsheet. A \$5.00 donation requested in order to obtain documentation.

GB/2 LINERS - ZZ9

A disk of 18 mini-utilities composed of two lines of program coding. Set your printer, play the Lotto, read dv/80 files, etc., etc.

ARCHIVER 3\*03 - ZZ10

Latest version of the Barry Boone Archiver program. No major enhancements since 3.00 (which I think was the last one in the library).

CSI\*INDEX - ZZ10

An extended basic program to catalog programs on tape and the tape will search for and load the needed program.

MAILLIST - ZZ10

A mailist program written by a member of the Lima group and passed on to their exchange clubs.

TRAPTRACK - ZZ10

This is a program from France to read tracks on diskettes and see how the information is stored. Should be great for you programmers and hackers.

NIGHTSNIPER - ZZ11

An Extended Basic game from the Nutmeg 89ers.

BILLIARDS - ZZ11

An assembly language billiards game from France. Played similar to several golf games we have in that you determine the angle and force you wish to use to hit your billiard balls. A two-player game.

JIFFYCARDS - ZZ12A&B

Two disks of premade cards for the JIFFYCARD program done by Sister Pat Taylor. Gives you lots of good ideas for making your own cards, or simply customize these for your own use.

TIGERCUB CARE DISK 3 - Side 1 - ZZ13

Side one of a disk from Jim Peterson with articles in DV/80 files on programming in sprites, variable names, using graphics, etc. Very informative.

TIGERCUB CARE DISK 3 - Side 2 - ZZ14

Songs from the Tigercub, including Battlehymn, Bubbles, Carolina, Columbia, Kojo, Quilting, Bisingsun, Samarkand.

BHXP1 - ZZ15A&B

The BHXP1 is an experimental aircraft which you put thru it's paces. Written in assembly. Takes up almost the entire disk. Second side is extensive documentation. Should be interesting for you "Flight Simulator" fans.

TELCO SUPPORT - ZZ16

Several files to use with TELCO to sort and print telephone numbers, print log files, etc. Can be used on a hard drive.

PRINT UTILITY - ZZ16

A utility to print multiple DV/80 files without a wordprocessing program. Written in assembly with source code for interested programmers.

CHECKING PROGRAM - ZZ17

An easy-to-use checkbook program that will summarize by codes all of your household expenses and keep track of your bank balance. Very nice.

C-LIBRARY - ZZ18

Several library files for c89 programmers, including graphics, sound, speech.

CASSETTE - ZZ19

Four assembly language programs which are rather experimental in that you can input sound through the cassette port and have the sound waves appear on the screen in different patterns.

c89 WINDOWS - ZZ20A&B

More assistance for the c89 programmer. Two disk sides.

C89/EXP - ZZ21 - DSSD

A double sided, single density disk of c89 routines which can be incorporated into programs.

C-FILES - ZZ22 - DSSD

Another double sided, single density disk of c89 routines to help the c89 programmer.

GPL/MENU - ZZ23

Menu programs for the GENEVE 9640

GEE ROUTINES - ZZ24

Interesting graphics for use with the GEE programming disk elsewhere in the library.

SYSTEM-III - ZZ25A&B - DSSD

This is an update of Irvin Crowley's CHECKBOOK SYSTEM program. This is one of the most complete general ledger-type programs we have for the 99/4A. It's worth looking at if you like those things. This is a two-disk set.

CONTRACT BRIDGE - ZZ26

Version 2.06 of John Bull's contract bridge tutor and game.

DISK LABELER 99 - ZZ27

This is by Paul E. Scheidemantle who is doing a lot of work now for ASGARD. Unfortunately this long program this long program doesn't do any more than a lot of smaller others we have in our library.

CARFAX ABBEY - ZZ28

A graphic adventure program for you adventure fans.

EXTENDED BASIC TUTOR - ZZ29A&B

This is the full set of Extended Basic tutorials from Funnelweb Farms that was making the rounds a year or so ago. We published a couple in our newsletter but were never able to get them all in. The information, however, is timeless for those wanting to learn more about XB programming.

ASSEMBLY LANGUAGE TUTOR - ZZ30A&B

Another two-disk set

of assembly language tutorials which originally appeared in the Chicago Times newsletter. They were typed in and the programs debugged by our own Wes Richardson who used them for an assembly class in Lexington.

TI-WRITER CUE CARDS - ZZ31 Cue cards to be printed out to help you remember TI-Writer/Funnelweb commands. From John Owen of the Johnson Space Center UG.

JAVBREAKER - ZZ32  
The TI game module now in the public domain.

SOLITAIRE - ZZ32  
This came from GENie, but is the same as the Solitaire program put out by Quality99.

NUCLEAR99 - ZZ32  
A game simulating operation of a steam type CANDU nuclear reactor.

COLUMN TEXT - ZZ33  
Similar to the one we use for the newsletter. This one does not have to be run through the formatter ahead of time and has several other enhancements.

TIGERCUB INTERACTIVE DEMO - ZZ34  
A demo of the Tigercub Nuts & Bolts disks. Requires input from the keyboard.

TIGERCUB SELF-RUNNING DEMO - ZZ35  
A self-running demo of the Nuts & Bolts disks. Well worth looking at if you are interested in XB programming.

TIGERCUB SELF-RUNNING DEMO 2 - ZZ36  
This last of three disks demoing the Nuts & Bolts disks.

AMERICAN LEAGUE BASEBALL SYMBOLS - ZZ37  
Graphics of all the American League baseball logos in TI-ARTIST program format. Created by Deanna Sheridan.

NATIONAL LEAGUE BASEBALL SYMBOLS - ZZ38  
Graphics of all the National League baseball logos in TI-ARTIST program format. Created by Deanna Sheridan.

XBI RESOLUTION GRAPHICS - ZZ39A&B Extra high resolution graphics with an 80-column card or the GENEVE. DOCS on the first side with part of the program and the rest of the program on the back. Careful when using to get all the files needed on one disk to run.

AVPC/80-COL FUNNELWEB - ZZ40  
80-column Funnelweb for the AVPC card or GENEVE.

TETBIS - ZZ41  
The game that "everyone" is talking about. This is an assembly language version from Germany.

GROG - ZZ42  
An inter-active adventure game by Ray Kazner who gave us Woodstock.

HOCKEY - ZZ43  
An assembly language 2-player hockey game. Not Bad!

REMINDER! - ZZ44

The John Johnson REMIND ME! program is now in the public domain. Create a monthly calendar of events and have it print for you.

FORMATTER - ZZ44  
A freeware program similar to FORMSHOP to create forms, invoices, etc. This program became the basis of PAGE PRO99. However, don't expect the graphic features of PAGE PRO if you use this!

SWAN GRAPHIC WRITER - ZZ45  
Load this program from option 3 of the RA module. You can create letterheads, logos, etc. for printing with TI-WRITER. No docs included, however, there is a help screen and you can figure out most of it. Docs can be obtained by sending \$10 to the author.

PPRENAME - ZZ45  
This file is called UTIL1. It was created so that the author could change the defaults of PAGEPRO99 so that he could use it on his hard disk. It will work equally well on most programs. It searches a program for a disk name or number and changes it to the name you specify. Great for hard disk and ram disk users.

MASS TRANSFER 4.13 - ZZ46  
An update for those of you who are still using this popular terminal emulator program.

OPERATION PING PONG - ZZ47  
Help Tommy deliver disk containing plans for top secret "Operation Ping Pong". An adventure game with graphics.

CTIPSVU - ZZ48  
An assembly language utility to let you quickly scan a TIPS file and view the graphics.

CTIPS-I - ZZ48  
E A program written in c99 that will quickly take a file of TIPS graphics and transfer them to ARTIST instances.

GRABBER2 - ZZ48  
You can prepare a graphic mailing lable in TI-ARTIST, save it, and this program will "grab" the upper left corner of the screen and print labels for you.

TIPSLOAD - ZZ49A  
Read the REM lines in this program. It was written by Irwin Hott to create a menu for loading the TIPS program.

TIPS - ZZ49A  
The public domain program which will print cards, signs and mailing labels. Written mostly in Xbasic, so runs extremely slow. See ZZ49B for DOCS

TIPS DOCS - ZZ49B  
DOCS for TIPS program.

ADDITIONAL FONT#1 FOR TIPS - ZZ49B  
One of three additional large fonts to be used with TIPS

ADDITIONAL FONT#2 FOR TIPS - ZZ50  
Second of three additional large fonts to be used with



## TIPS

### TIPS TO PAGE PRO - ZZ50

An assembly file to transfer a set of TIPS graphics directly to PAGE PRO format.

### ADDITIONAL FONT #3 FOR TIPS - ZZ51

Last of three additional large font files for TIPS.

### TIPS/PEA - ZZ51

This is a set of TIPS graphics of PEANUTS characters. Because an unarchived file takes up a large amount of space, a copy of ARCHIVER 303 is included for you to unarchive the file.

### TIPS SCH1 & 2 - ZZ52

Two sets of TIP graphics in archived format. Archiver is included on the disk. These are of general subject matter, but do have the 50 states, and several sets of frames.

### TIPS C1&2 - ZZ53

Two sets of TIPS Christmas graphics. NOTE: For some reason when TIPS files are downloaded from GENIE, they cannot be read from the TIPS program itself. The other graphics for TIPS were downloaded from CompuServe and work with TIPS just fine. You can use the various utilities with these files, such as TIPSVU, TIPS to Instances and TIPS to PAGEPRO, but the TIPS program cannot read them. If necessary, I can download the same files from CompuServe.

### PLOT - ZZ54

A plotting program from Germany using extra-hi-resolution graphics. Supposed to be very detailed and plot exactly to scale.

### PEB MANUAL - ZZ55

This is a technical manual for the PEB. It is archived in 354 sectors. The unarchived file takes over 900 sectors. There was not enough room to put ARCHIVER on the disk, so it will have to be obtained elsewhere.

### BOOT V.12-01-89 - ZZ56

BOOT now takes up 2 files, but has lots of new features. Especially useful for Hard Drive users. It will run IB programs over 50 Sectors. It is even suggested that HRD ramdisk users substitute this for their MENU program as John Johnson does NOT play to update that to match BOOT.

### VIDEO-CATALOGER - ZZ56

A database for your VCR tapes. Sort by title or key word. Prints a hard copy in detail or summary.

### SOFTWARE - ZZ56

Where to order disks of MACPAINT graphics for \$2.50 a disk. These are mostly nudes.

TIGERCUB CARE DISK #2 - ZZ57 Tips to the Tigercub #49 thru 50 with other informative information from Jim Peterson.

### TIGERCUB CARE DISK #1 - ZZ58

Several articles by Jim Peterson on Programming; ie., using arrays, music, programs that write programs, etc.

### TIPS TO THE TIGERCUB - ZZ59

Tips to the Tigercub numbers 48 - 51. You always learn something from Jim Peterson's efforts.

### TIPS TO THE TIGERCUB - ZZ60

Tips to the Tigercub numbers 52 to 57.

### TIGERCUB PUBLIC DOMAIN LIBRARY - ZZ61

A listing of PD programs Jim Peterson sells for \$1.50 per disk.

### CLEVELAND1 - ZZ62

Programs and articles by Wes Richardson since he moved to Cleveland. The programs include his Instance Converter and Spinner.

### GRAPHIC LABELMAKER 3.0 - ZZ62

This is a much enhanced Graphic Label Maker in that it lets you save your labels for later use, configure your printer, etc. Also you can create CSGD graphics with this program.

### CSGD GRAPICS - ZZ63

These are CSGD graphics distributed with the above program.

### 50 STATES - ZZ64A,B&C

This 3-disk set is the 50 states in Artist Instance Format. Each state has the date it joined the union and the state's most common motto. In addition, there is a small DV/80 file on each state with other information, such as the state flower, bird, flag, colors, etc. Done by Deanna Sheridan.

COMMENTS ON THE NEW JIFFY CARD  
AND JIFFY FLYER BORDERS  
Deanna Sheridan - NorthCoast 99ers

Without getting into a lot of specifics, I would like make a clarification regarding the disk of borders which Rodger Merritt is distributing for JIFFY CARD AND JIFFY FLYER. This disk is a combination of borders which were created by Sister Pat Taylor and myself. As we have both worked with Rodger over the past year, we independtly sent him the disk which contained the results of our efforts to get some borders we felt were more appropriate for greeting cards than those distributed with the original program.

Rodger then packaged and sold these along with an additional font and some graphics at the Chicago TI FAIRE. I had no idea they were the same borders until he mentioned it in a conversation with me, and said he hoped I wouldn't mind. Probably if he had asked, I wouldn't have minded, but the fact that they were packaged and sold without my knowledge and without any type of acknowledgement in the documentation or on the disk as to who actually created them, I am afraid that I can't help but mind. I know if the situation were reversed he would "mind".

The borders which I created (this does not include the ones which Sister Pat did, and I do not feel I can distribute them) have been placed on both CompuServe and Genie and anyone is welcome to them. I just didn't want

people to think that I was uploading and distributing someone else's commercial product.

Should anyone else be so inclined, these borders are very easy and fun to create. You can get out some of your old extended basic programs and find some 16-character sprites, or else just start with geometric shapes and experiment. Rodger has put out a program which he calls "Border Builder", which is an enhancement of the old SpriteBuilder by John Taylor. If you have this in your software library, it will do very well. The way one square looks on the screen does not always give the same effect as when a lot of square butt up against each other. Some of the "borders" I liked the least while drawing them in SpriteBuilder, ended up being the ones I liked the best when I tried them out in Jiffy Card.

To make a border permanent in JIFFY CARD or JIFFY FLYER, load the program in with the OLD DSK1.JIFFYCARD command. Look down through the program until you come upon the data statements for the current borders. Type in the hex code for your new border and save it back as JIFFYCARD. Then load in the usual manner, and you have a nice new border or borders. Try the following:

10101CEE755A1D0E  
0E1D5A75EE1C1810  
00105877AE5CB870  
70B0PCAE77501000

CLEVELAND AREA 99/4A USERS GROUPS  
C/O DEANNA SHERIDAN  
20311 LAKE ROAD  
ROCKY RIVER, OH 44116



CHECK YOUR EXPIRATION DATE.  
THIS MAY BE YOUR LAST ISSUE!

FIRST CLASS

FIRST CLASS

Exp Date: 90/07