Spiritof99

CENTRAL OHIO
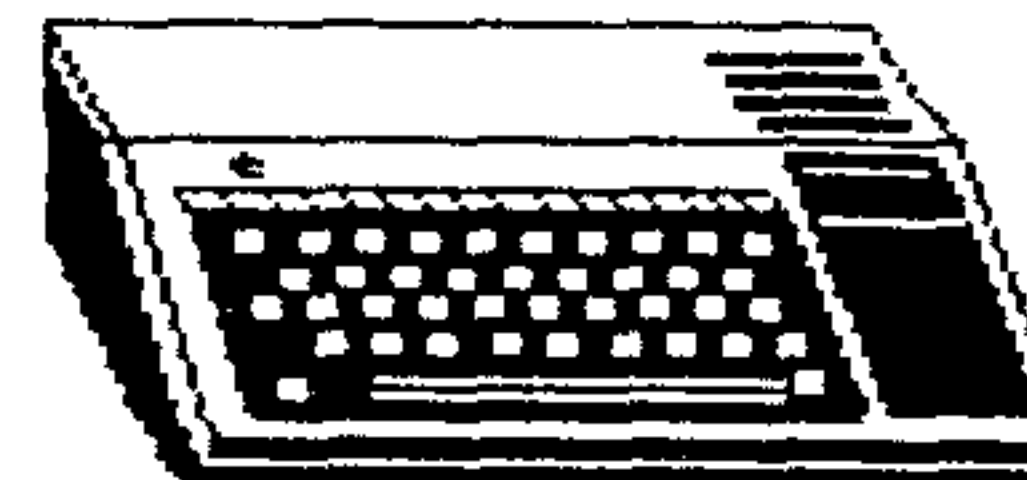
NINETY NINERS INC

THE OFFICIAL NEWSLETTER OF THE CENTRAL OHIO NINETY-NINERS INC.

PUBLISHED MONTHLY IN COLUMBUS OHIO

February

Spirit of 99

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Central Ohio Ninety Niners Inc. is a non profit organization comprised of MEMBERS who own or use the TI99/4A computer and it's related pro -ducts and have paid a yearly membership fee of $28.00 and whose main objective is the exchange of Educational and Scientific information for the purpose of computer literacy.

C.O.N.N.I. meetings are held the 3rd Saturday of each month at Chemical Abstracts, 2540 Olentangy River Road Columbus, OH. Meeting time is 8:30 AM til 2:30PM. Meetings are open to the public. Membership dues ($28.00) are payable yearly to C.O.N.N.I. and cover the immediate family of the member. Please send check to our membership registrar and join CONNI.
Please address it to:
Harley Ryan Jr
4178 Chandler Drive
Whitehall, OH 43213

** INDEX **

NEW MEMBER
Dnald T. Becker
James B. Johnson

DUES ANNOUNCEMENT

Dues are usually paid at or before the March meeting, and are $28 per year for full membership, library and voting privileges, plus the newsletter. You may also pay your dues in two installments if desired: $14 in March and $14 in September. If only the newsletter is desired, then payment is $15 per year. Those who join during other months of the year pay a lesser, pro-rated amount:

```
MAR---28.00   APR---25.75   MAY---23.50   JUN---21.00   JUL---18.75
AUG---16.50   SEP---14.00   OCT---11.25   NOV----9.50   DEC-----7.00
JAN----4.75   FEB----2.50
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A DEAL

YOU CAN'T

PASS UP!

SUBSCRIBE TO BOTH!

Now you can have the best of both worlds—
Keep up to date on the latest news from
the TI-99/4A world with a subscription to
the Spirit of 99 Newsletter AND get an
up-to-date collection of new public domain
and shareware programs with the Disk of
the Month--both brought to you by the
Central Ohio Ninety-Niners, Inc.
No newsletter published in August.
January newsletter is an index of all
articles published during the previous year.
10-SSSD DOM's published annually.
At times, two diskettes depending on
availability of new material.
NL is mailed 1st of the month.
DOM is mailed about the middle of the month.

_____SUBCRIPTION RATES_____
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       Newsletter only-----$15/yr.(Continental U.S.)
                           $25/yr.(Outside Continental U.S.)
       Newsletter PLUS----$30/yr.(Continental U.S. EXCEPT
        DISK of the MONTH           Delaware, Fairfiled, Franklin,
                                    Licking, Madison, Pickaway
                                    and Union Counties, Ohio)
                          $40/yr.(Outside Continental U.S.)
       CONNI Club $28/yr  (see above information)
        membership
```

CONTACT

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(614) 231-1497

C.O.N.N.I.   MINUTES

Saturday, December 22,1991

Prior to the business meeting, various subjects were discussed and Jean Hall demonstrated some new tips in the use of TI-Writer.

President Chuck Grimes conducted the business meeting and treasurer Everett Wade reported our financial status. Chuck read and circulated letters offering equipment for sale, requests for donations, and announcement of the Boulevard computerized shopping service.

There was much discussion of MIDI MASTER 99. It was announced that Jean Hall has donated a 192k ramdisk for our portable system. We are still looking for the P-Gram card which was loaned out to someone. It is requested that anyone having knowledge of it inform Chuck.
Dick Beery appointed Jim Peterson and Jean Hall to serve on the nominating comittee.

Everett Wade announced the availability of back issues of MICROpendium and blank diskettes.
Chuck announced that the Lima Conference videotapes were available for loan to members.

After the meeting, Dick Beery demonstrated Notung Software's TI-Casino, and Jim Peterson demonstrated his 6-Memory 6-Window 34-Function 14-Digit Display Programmable Iterative Calculator.

Respectfully submitted by co-secretary Jim Peterson

Wednesday, January 22, 1992.

Because of the absence of President Chuck Grimes, Vice-president Bill Sheppard opened the meeting at approximately 8:10 p.m. Dick Beery gave the treasurer's report. Since we had no equipment, the scheduled demo of MIDI could not be given. We did have much lively discussion on topics such as: MIDI, our Clearinghouse BBS, databases, current T.I. suppliers, etc.

Harley Ryan, membership chairman, shared a letter received from a new newsletter/D.O.M member who had borrowed a copy of our newsletter, liked it very much, and subscribed. Harley reports a membership of 95. 51 of these reside outside the greater Columbus area. Dick Beery agreed to send letters to five people who write for other newsletters inviting them to submit articles to the Clearinghouse. Another MIDI demo was scheduled for the Wednesday February meeting. The meeting adjourned at approximately 10:15 p.m.

Respectfully submitted,

Dick Beery
Wednesday Secretary

FEBRUARY 1992

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	13			CONNI MEETING
16	PRESIDENT'S DAY	18	19	20	21	
23	24	25	CONNI MEETING	27	28	29

SATURDAY MEETING 15 FEB 1992
Chemical Abstracts Building -- Columbus

8:30AM Setup, coffee, and doughnuts

9:00AM Disk of Month,   10:30AM Business
       Micropendium,   Meeting
       Beginners help,
       Libraries open   11:15AM Demos:
                                    MUSIC
                                      Harold Timmons
9:30AM Question and   Chuck Grimes
       Answer Period   Jim Peterson

9:45AM TI-Writer class   1:30PM Tear dowm
       Jean Hall   and go home
         Harrison's
         Word Processor

WEDNESDAY MEETING -- 26 FEB 1992
McDONALD'S -- Cleveland and Main -- Westerville

7:30PM MEETING TIME
Demos:
 MIDI

I WISH by Jim Peterson

I wish that someone would write a rapid disk copier, like Rediskit, that would allow me to specify the drive I wanted to copy to each time, so that I could be able to load a disk into one drive while the disk in another drive was being written to.

Even better, I wish someone would write an even faster disk copier that would read in as much as possible and then write it to two or more drives.

I wish that someone would figure out how to put four more tone generators under the hood of the TI-99/4A, with software to access them.

I wish that someone would write a LINK to assembly to store strings in the expansion memory; the limitation to console memory in Extended Basic is one of the worst, although least-known, faults of the TI.

I wish that someone would write a library of links to assembly, to do the many things that Extended Basic can't do or can't do fast enough.

I wish that the anonymous genius who created the Ernie and Bert program would share his secret with us. He seems to have achieved better sound quality, in far less memory, than Sound F/X.

I wish that someone would remap the keyboard to simulate the Dvorak typewriter.

I wish that someone would write a tutorial on programming in assembly in very simple language that I can understand, using three-letter words to replace such intimidating terms as "least significant byte" and "floating point accumulator".

I wish that someone would write a music composing program. A person with a good knowledge of both music theory and programming should be able to do so, because music is basically mathematical in concept - sounds must vibrate a certain number of times per second in order to be recognized as musical tones, and collections of those tones must be arranged within certain parameters, de-finable by music theory, in order to sound musical. It should be possible to randomly produce phrases within those parameters and allow the user to select a phrase to be further randomly developed, until a complete melody emerges.

I wish that someone would write a really complete tutorial article on the various types of disk files and the means of accessing them.

If those folks who like to brag about the lightning speed of their low level languages are actually writing programs in those languages, I wish they would share them with us.

I wish that my new Star NX1020R printer had, among its many character sets, those handy graphics characters that were accessible in ASCII 225-254 in the Star emulation of the old Gemini 10X and SG-10.

I wish that the suppliers of products for the TI, and the developers of new products, would advertise in MICRO-pendium so we could find out what they have to offer!

I wish that printers were made so that they would continually shift either the print head or the ribbon up and down, so that we could use up the entire width of the ribbon instead of that narrow strip down the center. Considering their outrageous prices for ribbon cartridges, they owe us that much!

I wish that the local stores would get together and set up a computer information service so I could use my modem to find out what stores have what I'm looking for, and what their price is.

I wish that manufacturers of electronic equipment would stop labeling all the controls in raised black letters on a black background.

I wish most of all that Texas Instruments had continued developing our computer, that we now had a TI-99/9Z!   END

****

"BEING MARRIED SAVERS A MAN A LOT OF TIME MAKING UP HIS MIND"

****

TI WORLD NEWS January 1992 compiled by Jim Peterson

According to Asgard Reflections, OPA (432 Jarvis St., Suite 502, Toronto ONT Canada M4Y 2H3) has acquired a contract to service all 99/4A related products in Canada, and has obtained a huge stock of cartridges, parts and peripherals.

TM Direct Marketing (1650 Broadway, Redwood City CA 94063) has issued a Fall Winter 1991 16-page catalog of the products, programs and accessories they took over from Triton. They have a toll 1-free number 1-800-336-9966 Monday-Friday 9AM-4PM Pacific Time. The catalog is free.

Beery Miller of 9640 News (P.O. Box 752465, Memphis TN 38175) has made arrangements with Mike Dodd to distribute Mike's great programs. These had been placed with JP Software for distribution, but JP Software has failed to ship anything or answer any inquiries for a year and a half. The new reduced prices are $15 for HyperCopy, $25 for PC-Transfer and Utils, $7.50 for PC-Transfer Utilities, $10 for Identifile. Beery is not responsible for any unfilled orders previously sent to JP Software.

Australia's first TI-FAIRE of the 1990's will be held in Sydney on 14 November 1992. It is sponsored by the TISHUG user group of Sydney, one of the world's largest and most active groups and the publisher of the best of all newsletters.

The Nittany Users of Texas Instruments in Pennsylvania has disbanded. The Brevard Users Group in Florida no longer supports the TI-99/4A.

Jerry Coffey did not respond to my request for information, but according to the Southern Nevada newsletter he is now supplying the JPH Software programs GEN-TRI at $49.95, TRIAD at $25 and Chainlink Solitaire at $12, PC Transfer Vers. 1.1 and Utilities at $25 or the Utlities alone $7.50, Hypercopy at 7.50 and Identifile at 10.

According to a message on DELPHI in August, Don O'Neil was still working the bugs out of his Accelerator (it was not ready for the Chicago Faire in

November). He and Gary Bowser have decided to include SOB (Son of a Board) in a new form, called Super SOB, on board the Accelerator. O'Neil has dropped his plans for a P-Box interface card and will be developing a new P-box with four 16-bit slots for new cards and at least six 8-bit slots for existing TI cards. He says it will be a full size AT case with a 200W power supply; you will have to jumper or remove the regulators on existing 4A cards to keep the heat down. The box will house the 4A console, Accelerator and TIM (if you have them), and floppy and hard drives. There will be a built-in IBM keyboard interface. An adapter card will be adapted for the standard console to have access to the 16-bit bus slots. The cartridge port will be mounted in a drive bay for easy access from the front.

Don also said he had nearly completed a 4MB memory card (4A MEMEX), which will apparently be 256K in the basic version and upgradable in 1 MB increments to 4 MB. It will have 5 modes of operation, RAMBO and four others. He said his next project would be a 16-bit version of the 4A MEMEX.

According to the report on the Chicago Faire by Gary Cox in the Mid-South newsletter, Bud Mills was offering a TIM converter which takes an RGB analog signal and converts it to a composite signal so that a composite monitor could be used with the TIM 80-column device. He was also selling for $35 the Miller Graphics EPROM for the CorComp disk controller. Bud also announced that when someone sells a ram disk in order to purchase a bigger ram disk from him, he will warrant the old ram disk to the new owner for 90 days.

Gary Bowser was selling POP-cart, a user-selected set of TI-99/A modules or programs all burned into one standard cartridge and accessed through a menu. Five to seven such programs will fit into the basic POP-cart, which sells for $95 plus $4.50 PP&M, but units up to 2 megabytes are available. It uses the "REVIEW MODULE LIBRARY" built into the console, but for an additional $25 a scrolling pop-up memory is available

with additional features such as loading of Assembly, Object, Forth and C99 programs via the menu.

Beery Miller offered GEME for the Geneve, a software package allowing multiple windows and the ability to scroll around them; the price was $5. Also available for 28 was SHELL, a utility which allows one to interface from MDOS to any MDOS or GPL program, providing the ability to build a menu and run anything at will.

William A. Shores (Suite 107, 5679 S. Transit Road, Lockport NY 14094 has a $25 kit called E/B Module Expander which enables you to take the GROMs from Extended Basic and from any other module which has 16-pin GROMs and place them all in one slightly larger module, all accessible by a 6-position switch.

TI Fest West 1992, hosted this year by the Valley of the Sun TI Computer UG, is scheduled for Feb. 15 and Feb. 16 at the Days Inn – Phoenix/Camelback, in Phoenix, Arizona.

Jerry Rash of Catspaw Software is perfecting his Quickstart Operating Environment for the Geneve, which may be available at Fest West. Also, Jerry and Bill Nelson plan to be offering IBM "AT" chassis boxes reconfigured for the Geneve.

Mike Maksimik of Crystal Software (635 Mackinaw, Calumet City IL) has released MIDI Album 99, for use with MIDI Master 99. It allows you to catalog any disk files of MIDI music and then schedule up to 106 selections to be played randomly or in alphabetic sequence. Since MIDI Master 99 has exhausted available memory, this software requires an additional 4K in a Mini-Memory or other module.

Tony Lewis (409 Drolmond Drive, Raleigh NC 27615-6230) has announced that his FPM (Floating Point Math) Card is under development and should be available in 1992. It uses a Motorola 68881 floating point math coprocessor to greatly speed up math operations while increasing accuracy and tripling the number of math operations available.

END

TIPS FROM THE TIGERCUB

No. 67

Tigercub Software
156 Collingwood Ave.
Columbus, OH 43213
****

My three Nuts & Bolts disks, each containing 100 or more subprograms, have been reduced to $5.00 each. I am out of printed documentation so it will be supplied on disk.

My TI-PD library now has well over 500 disks of fairware (by author's permission only) and public domain, all arranged by category and as full as possible, provided with loaders by full program name rather than filename, Basic programs converted to XBasic, etc. The price is just $1.50 per disk(!), post paid if at least eight are ordered. TI-PD catalog #5 and the latest supplement is available for $1 which is deductible from the first order.

In a MICROpendium article, Jerry Stern remarked that it would be quite difficult to write a program that would accept input of a formula and then use the formula. He also thought such a program would be very slow.

No programmer could resist a challenge like that, so -

```
100 DISPLAY AT(1,3)ERASE ALL
:"PROGRAMMABLE CALCULATOR":"
":"    V1.1 by Jim Peterson"
:: CALL INIT
110 DISPLAY AT(5,1):" Input
any mathematical    formula
in the form of a    valid B
ASIC statement, usingA for t
he value to be calcu-"
120 DISPLAY AT(9,1):"lated a
nd B thru F for the  values
to be input.":" Examples -
":"   A=(B-C)^D-7":"  A=B-C
+C%.1-C%.0575":"  A=INT(ABS
(B-C))-PI"
130 DISPLAY AT(17,1):" To c
hange the formula,   enter
0 for all values."
135 DISPLAY AT(20,1):"This v
ersion can handle FOR/NEXT l
oops, IF THEN ELSE,   MAX, M
IN and <>"
140 DISPLAY AT(24,7):"PRESS
ANY KEY" :: DISPLAY AT(24,7)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 140 EL
SE CALL HCHAR(7,1,32,18%32)
150 A$="" :: DISPLAY AT(8,1)
ERASE ALL:"FORMULA?" :: LINP
UT F$ :: ON WARNING NEXT
160 DATA ),182,(,183,=,190,+
,193,-,194,%,195,/,196,^,197
,ABS,203,ATN,204,COS,205,EXP
,206,INT,207,LOG,208
170 DATA SGN,209,SIN,210,SQR
,211,TAN,212,PI,221
175 DATA ::,130,FOR,140,TO,1
77,NEXT,150,STEP,178,IF,132,
THEN,176,ELSE,129,MAX,223,MI
N,22,<,191,>,192,",",179
180 RESTORE 160 :: FOR J=1 T
O 32 :: READ X$,W
190 P=POS(F$,X$,1):: IF P<>0
THEN F$=SEG$(F$,1,P-1)&CHR$
(W)&SEG$(F$,P+LEN(X$),255)::
GOTO 190
200 NEXT J :: J=0
205 P=POS(F$," ",1):: IF P<>
0 THEN F$=SEG$(F$,1,P-1)&SEG
$(F$,P+1,255):: GOTO 205
210 IF J=LEN(F$)THEN 240 ::
J=J+1 :: Z$=SEG$(F$,J,1):: I
F POS(".0123456789",Z$,1)=0
THEN A$=A$&Z$ :: GOTO 210
220 N$=N$&Z$ :: Z$="" :: IF
J=LEN(F$)THEN 230 :: J=J+1 :
: Z$=SEG$(F$,J,1):: IF POS("
.0123456789",Z$,1)<>0 THEN 2
20
230 A$=A$&CHR$(200)&CHR$(LEN
(N$))&N$&Z$ :: N$="" :: GOTO
210
240 A$=A$&CHR$(130)&CHR$(136
)&CHR$(0):: GOSUB 330 :: CAL
L HCHAR(12,1,32,250)
250 W=0 :: IF POS(A$,"B",1)<
>0 THEN DISPLAY AT(12,1):"B=
?" :: ACCEPT AT(12,5):B :: W
=W+B
260 IF POS(A$,"C",1)<>0 THEN
DISPLAY AT(13,1):"C=?" :: A
CCEPT AT(13,5):C :: W=W+C
270 IF POS(A$,"D",1)<>0 THEN
DISPLAY AT(14,1):"D=?" :: A
CCEPT AT(14,5):D :: W=W+D
280 IF POS(A$,"E",1)<>0 THEN
DISPLAY AT(15,1):"E=?" :: A
CCEPT AT(15,5):E :: W=W+E
290 IF POS(A$,"F",1)<>0 THEN
DISPLAY AT(16,1):"F=?" :: A
CCEPT AT(16,5):F :: W=W+F
300 ON ERROR 310 :: GOTO 320
310 CALL SOUND(400,110,0,-4,
0):: DISPLAY AT(12,1):RPT$("
",250):: DISPLAY AT(24,5):"
INVALID FORMULA" :: RETURN 1
50
320 IF W=0 THEN 150 :: GOSUB
350 :: DISPLAY AT(18,1):"A=
";A :: GOTO 250
330 CALL PEEK(-31952,A,B)::
CALL PEEK(A%256+B-65534,A,B)
:: C=A%256+B-65534
340 FOR J=1 TO LEN(A$):: CAL
L LOAD(C+J-3,ASC(SEG$(A$,J,1
))):: NEXT J :: RETURN
350 !***************************
****************************
****************************
****************************
```

This method can also be used for the iterative calculator which I published in Tips #65. Just delete lines 100-140, 280-320 and 350 of the above and substitute-

```
100 DISPLAY AT(3,1)ERASE ALL
:"ITERATIVE CALCULATOR V1.1"
:"":"     by Jim Peterson" :
: CALL INIT
110 DISPLAY AT(7,1):" Will
solve difficult equa-tions s
uch as A=X^X-SQR(X)  by iter
ation."
120 DISPLAY AT(11,1):" Inpu
t any mathematical    formul
a in the form of a    valid
BASIC statement, usingA for
the known value and X"
130 DISPLAY AT(15,1):"for th
e value to be deter- mined.
":" Examples - ":"   A=X^X-
SQR(X)":"   A=SQR(X^X)"
140 DISPLAY AT(20,1):" To c
hange the formula,   enter
0 for value to calcu- late."
280 DISPLAY AT(12,1):"A=?" :
: ACCEPT AT(12,5):C :: DISPL
AY AT(16,5):"" :: IF C=0 THE
N 150
350 X=1 :: GOSUB 380
351 IF A<C THEN DISPLAY AT(1
4,5):X :: Y=X :: X=X%2 :: GO
SUB 380 :: GOTO 351 ELSE 353
352 IF A>C THEN DISPLAY AT(1
8,5):X :: Y=X :: X=X/2 :: GO
SUB 380 :: GOTO 352
353 IF A=C OR A=B THEN DISPL
AY AT(14,5):"" :: DISPLAY AT
(18,5):"" :: DISPLAY AT(16,5
):X :: GOTO 280 ELSE B=A ::
Z=(ABS(X-Y))/2 :: Y=X
354 IF A<C THEN X=X+Z :: DIS
PLAY AT(14,5):X ELSE X=X-Z :
: DISPLAY AT(18,5):X
355 GOSUB 380 :: GOTO 353
```

Here's a little-known peculiarity of TI XBasic -

```
100 ACCEPT AT(1,1):M$ :: IF
M$="" OR ASC(M$)<32 THEN 100
```

Now, if you press Enter, which is a null string or "" you would expect execution to go back to 100 - but it tries to find the ASCII of a null string, and crashes!

You must write IF M$="" THEN 100 ELSE IF ASC(M$)<32 THEN 100 .

And another peculiarity that caused me an hour of total frustration while trying to debug a program - it is well known that CALL KEY in mode 3, CALL KEY(3,K,S), will cause all subsequent INPUT or ACCEPT AT to be in upper case; but what it actually does is internally depress the Alpha Lock, so that ASCII 97 through 122 are read as 65 through 90 - and it disables character sets above 8, ASCII above 95, so that you cannot INPUT or ACCEPT even the printable characters ASCII 96 or 123 through 126, or any FCTN or CTRL input with an ASCII above that.

If you only use the Triton Super Extended Basic module for running programs, not writing them, you may not be aware of some of its most useful features. For example if you are answering an input prompt by typing something shorter over the de-

fault on the screen, you don't have to blank out the remaining characters - just use CTRL C. Take a look at page 8 of the manual for other useful features.

```
E(SEG$(X$,1,A)):C$
```

In a recentt Tips, I gave a method for reading the entire 13- or 14-digit number which the TI has in memory, by printing it to disk in internal format and reading it back. If I had read the Extended Basic manual more carefully, I would have known a simpler method. If you know where the decimal point will be, just use an IMAGE 14 characters long. Try this - PRINT USING ".### #########":17/19.07

If you don't know where the decimal will be, this subprogram will do the job if the number is within the range of -9,999,999,999 to 9,999,999,999; otherwise it will be in exponential notation as usual.

```
100 CALL CLEAR
110 ACCEPT AT(10,1):X :: CALL FULLNUM(12,1,X):: GOTO 110
20000 SUB FULLNUM(R,C,X):: P=POS(STR$(X),".",1):: IF X>9
999999999 OR X<-9999999999 OR P=0 THEN DISPLAY AT(R,C):X
:: SUBEXIT
20010 DISPLAY AT(R,C):USING RPT$("#",P-1)&"."&RPT$("#",14-P):X :: SUBEND
```

I worked this one up from a routine in the Swedish newsletter "Programbiten". It will convert to/from any base from 2 to 36.

```
100 CALL CLEAR :: CALL SCREEN(2):: FOR S=0 TO 12 :: CALL COLOR(S,16,2):: NEXT S :: X$="0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ"
110 DISPLAY AT(3,5):"BASE CONVERTING" :: DISPLAY AT(10,1):"From which base?":"":"To which base?"
120 ACCEPT AT(10,18)VALIDATE(DIGIT)SIZE(-2):A :: IF A>36
OR A<2 THEN 120
130 ACCEPT AT(12,16)VALIDATE(DIGIT)SIZE(-2):B :: IF B>36 OR B<2 THEN 130
140 DISPLAY AT(14,1):"Number?" :: ACCEPT AT(14,9)VALIDAT
```
1 is added to the number of
```
150 FOR I=LEN(C$)TO 1 STEP -1 :: D$=SEG$(C$,I,1):: IF ASC(D$)>57 THEN E=ASC(D$)-55 ELSE E=VAL(D$)
160 F=F+(E*A^(ABS(I-LEN(C$)))):: NEXT I
170 FOR J=INT(LOG(F+0.5)/LOG(B))TO 0 STEP -1 :: G=INT(F/B^J):: F=F-G*B^J
180 IF G>9 THEN H$=H$&CHR$(G+55)ELSE H$=H$&STR$(G)
190 NEXT J :: DISPLAY AT(20,1):H$ :: H$="" :: GOTO 120
```

I have finally replaced my faithful Gemini 10X printer with the new NX1020R and it promptly gave me a problem until I tracked down a serious flaw in its logic. The manual fails to warn you emphasized print cannot be used in combination with condensed print. This is also true of other printers. If you try that combination with them, they condense but do not emphasize. The NX1020 gives me emphasized print but it is not condensed!

The Coco column in Computer Monthly had a contest to write the shortest program to figure first class postage. My one-liner is not as short but does a better job.

```
100 INPUT "OUNCES? ":A :: PRINT .23*(INT(A)-(INT(A)<>A))+.06 :: GOTO 100
```

Here's how that works. The rate is .29 for the first ounce and .23 for each additional ounce, so we can just multiply ounces by .23 and then add .06 more to the total. However, partial ounces count as full ounces. INT(A) strips off any decimal portion so .23*INT(A) multiplies by the ounces not including the decimal part, if any. (INT(A)<>A) compares A to the integer of A. If they are different, INT(A)<>A has a "truth" value of -1 and a double negative is a plus so 1 is added to the number of ounces to be multiplied by. Otherwise it has a "false" value of 0 so nothing is added.

A self-styled financial adviser has been making the headlines lately by claiming that anyone can become a financial wizard by buying a $19 compound interest calculator. Save yourself $19 -

```
100 CALL CLEAR :: ON WARNING NEXT
110 DISPLAY AT(12,1):"A sum of $       invested at      % interest for    years compounded     times per    year will become"
120 DATA 12,11,5,13,1,4,13,20,2,14,12,3
130 FOR J=1 TO 4 :: READ A,B,C :: ACCEPT AT(A,B)VALIDATE(NUMERIC)SIZE(C):N(J):: NEXT J
140 FOR J=1 TO N(3)*N(4):: N(1)=N(1)+N(1)*N(2)/100/N(4):: NEXT J :: DISPLAY AT(16,1):USING "$######.##":N(1):: RESTORE 120 :: GOTO 110
```

In Tips #65 I described a

But don't believe the answers you get. Such calculations are worthless unless taxes and inflation are considered. Try this one -

```
100 CALL CLEAR :: ON WARNING NEXT
110 DISPLAY AT(12,1):"A sum of $       invested at      % interest for    years compounded     times per    year with tax rate of      %"
120 DISPLAY AT(16,1):"and average inflation rate of      % will have a buying power of"
130 DATA 12,11,5,13,1,4,13,20,2,14,12,3,15,23,4,17,4,4
140 FOR J=1 TO 6 :: READ A,B,C :: ACCEPT AT(A,B)VALIDATE(NUMERIC)SIZE(C):N(J):: NEXT J
150 N(2)=N(2)/100 :: N(5)=N(5)/100 :: N(6)=N(6)/100
160 FOR J=1 TO N(3)*N(4):: I=N(1)*N(2)/N(4):: I=I-I*N(5)
170 N(1)=N(1)-N(1)*N(6)/N(4)
180 NEXT J :: DISPLAY AT(19,1):USING "$######.##":N(1):: RESTORE 130 :: GOTO 110
```

By the first method, $1000 invested at 7% for 10 years compounded quarterly would double in value to $2001.60. By the second method, if the interest was taxed at 15% it would still be worth $1950. But if you factor in an average inflation rate of 4% that $1950 would only have a buying power of $1305 - if the price of bread today was $1 per loaf and that price remained constant in relation to wages, you could buy 1000 loaves today or invest the money and buy 1305, not 2001, ten years from now.

I know that this formula is oversimplified, but there is no way to calculate accurately anyway, since future rates of taxes and inflation cannot be predicted.

method of using DSKU to make the Funlweb Formatter recognize FCTN A, C and Z instead of &, @ and * to avoid garbled program listings. Jan Alexandersson in Sweden says that can be very dangerous. I should have mentioned that you should make the changes to a separate copy of Funlweb which you should not use to print text formatted by others, and you should not distribute text formatted with these alternative codes and those who use the version of TI-Writer which TI sold overseas should not use this method at all, because it uses those FCTN keys for special letters of foreign languages.

END

TIGERCUB PRINTALL
VERSION 1.6
by *Jim Peterson*
****

This program will print your text in a choice of 1 to 5 columns, and gives you complete choice of fonts, left and right margins, spacing between columns, lines per page, etc., etc. I think the prompts are self-explanatory.

NOTE: Some folks have thought that this program didn't work because they expected it to reformat text into the desired column width. Use Reformatter+ or the FUNLWEB Formatter to do that.

It takes some time to read in text and format it into multiple columns, so if you need to print more than two copies, or will need more copies in future, it will pay you to print back to the disk. To do this, at the printer prompt type over the PIO.LF default with DSK. and a drive number and file name. The text will then be formatted and printed to a D/V 254 file.

The next prompt is for the record length, which will be the default of 80 if the text was prepared with TI-Writer or whatever. *However, if you enter 254 you will be prompted for an input file name of a file printed to disk by this program, and for the number of copies wanted, which will then be printed immediately.*

If you have Triton's Super Extended Basic module, you can LIST an XBasic program to disk in 28-column format by LIST "DSK1.filename":28:1-32766 . The result will be a D/V28 file. With this program you can print the listing in 5 columns by selecting 28 record length, elite condensed, 5 columns, 28 column width.

This version has been modified slightly so that it will allow the use of "Control U" codes input by FUNLWEB, to underline, emphasize, double-strike, etc. an individual word or line. Note that if you are printing in more than one column **you must turn off the codes at the end of the line**, or they will also affect the same line in all subsequent columns. You must also remember that the control codes will be deleted in printing, which will affect the format.

If the file has a Tab setting, first enter T to get to the tab line, place a period to replace the R, then go to the end of the tab line and place an R.

For instance, if you want to underline a word, press CTRL O to get the open cursor fixed mode. Position the cursor on the first letter of the word, type FCTN 2 and then space bar 3 times to open up 3 spaces, backspace to the first of these, and type CTRL U, FCTN R, CTRL U, -, CTRL U, CTRL A, CTRL U. Move the cursor to the first space beyond the word, type FCTN 2, space 3 times, backspace 3, type CTRL U, FCTN R, CTRL U, -, CTRL U, CTRL @, CTRL U.

If the word is at the end of a line or you are underlining a complete line, and the line is not completely filled with characters, go to the end of the line first and put the "turn-off" codes starting in the space just after where the last character would be. For instance, if the column width is 40, start the codes in column 41.

With this method, you can print individual lines or words in *italics*, double-struck, underlined, superscript, emphasized, or in *different NLQ fonts* or different colors. However, do not use any CTRL U codes for a feature that you plan to select from Printall, or you will turn it off for the rest of the text.

NOTE: When a line contains CTRL U codes, the program will **NOT** warn you or truncate a line which is more than the selected column width.

Although this program is intended primarily for multiple-column printing, it has other uses. If your letter turns out to be 70 lines long and you would like to print it on one page, use this program and select 70 lines. If you need a double-spaced manuscript, select 30 lines. If you need a tiny list, such as a list of the songs to put in the case of a music cassette, select elite condensed subscript and 120 lines per page.

Since the TI-99/4A has limited memory, you may get a MEMORY FULL error if you try to format much more than 60 lines of condensed print per page. You can increase this limit considerably by entering CALL FILES(1) and then NEW before loading this program.

```
100 DIM M$(600),F$(50)
110 GOTO 160
120 K,ST,SET,S,P$,P,CL,DW$,S
S$,I$,D$,E$,NC,CW,TC,TA,TX,A
V,CS,S$,LT,A$,LSP,LP,RH,OK$,
QQ$,X,F$(),SL,F,IP,M$(),T$,F
LAG,J,PP,LT$,Q$,F,RL,N
130 EV$,COMP,MAXL
140 CALL CLEAR :: CALL KEY :
: CALL COLOR :: CALL SCREEN
:: CALL SOUND
150 !@P-
160 CALL CLEAR :: CALL KEY(3
,K,ST):: ON WARNING NEXT
170 FOR SET=0 TO 14 :: CALL
COLOR(SET,2,8):: NEXT SET ::
 CALL SCREEN(5)
180 DISPLAY AT(3,6):"TIGERCU
B PRINTALL" :: DISPLAY AT(5,
11):"V.1.6.1":"":" for the N
X1020R and other  Epson-com
patible printers"
190 DISPLAY AT(10,1):"Progra
mmed by Jim Peterson"
200 DISPLAY AT(18,7):"TURN P
RINTER ON!":;:"Set top of fo
rm half inch  below perfora
tions"
210 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,X,S):: IF S=0 THEN 210 EL
SE CALL CLEAR
220 DISPLAY AT(12,1):"Printe
r designation?" :: DISPLAY A
T(14,1):"PIO.LF" :: ACCEPT A
T(14,1)SIZE(-28)BEEP:P$ :: I
F POS(P$,"DSK",1)<>0 THEN 24
0
230 IF POS(P$,".LF",1)=0 THE
N P$=P$&".LF"
240 OPEN #1:P$,VARIABLE 254
:: PRINT #1:CHR$(27)&"@";::
CALL CLEAR
250 DISPLAY AT(12,1)ERASE AL
L:"Input record length? 80"
:: ACCEPT AT(12,22)VALIDATE(
DIGIT)SIZE(-3)BEEP:RL :: IF
RL<>254 THEN 320
260 DISPLAY AT(12,1)ERASE AL
L:"Filename? DSK" :: ACCEPT
AT(12,14)BEEP:F$
270 OPEN #2:"DSK"&F$,VARIABL
E 254,INPUT
280 DISPLAY AT(14,1):"How ma
ny copies? 1" :: ACCEPT AT(1
4,18)BEEP:N
290 FOR J=1 TO N
300 LINPUT #2:M$ :: PRINT #1

:M$ :: IF EOF(2)<>1 THEN 300
310 RESTORE #2 :: NEXT J ::
CLOSE #2 :: GOTO 220
320 DISPLAY AT(12,1):"Print
size?":" :" (1) Pica":"  (2)
 Elite":"  (3) Condensed":"
 (4) Elite condensed"
330 ACCEPT AT(12,13)VALIDATE
("1234")SIZE(1)BEEP:P :: IF
P=2 THEN PRINT #1:CHR$(27)&C
HR$(77);ELSE IF P=3 THEN PRI
NT #1:CHR$(15);ELSE PRINT #1
:CHR$(27)&CHR$(77)&CHR$(15);
340 CL=(P=1)*80+(P=2)*96+(P=
3)*136+(P=4)*160 :: CL=ABS(C
L)
350 DISPLAY AT(12,1)ERASE AL
L:"NLQ characters? Y" :: ACC
EPT AT(12,17)VALIDATE("YN")S
IZE(-1)BEEP:Q$ :: IF Q$="N"
THEN 380
360 DISPLAY AT(12,1):"Font?
1":"":"(1) Courier":"(2) San
serif":"(3) Script":"(4) Ora
tor"
370 ACCEPT AT(12,7)VALIDATE(
"1234")SIZE(-1)BEEP:F :: F=(
F=1)*0+ABS(F=2)+(F=3)*-4+(F=
4)*-7 :: PRINT #1:CHR$(40)&C
HR$(40)&CHR$(70)&CHR$(41)&CH
R$(41)&CHR$(F)
380 DISPLAY AT(12,1)ERASE AL
L:"Use color? N" :: ACCEPT A
T(12,12)VALIDATE("YN")SIZE(-
1)BEEP:Q$ :: IF Q$="N" THEN
410
390 DISPLAY AT(12,1):"Color?
 1":"(1) Black":"(2) Red":"(
3) Blue":"(4) Violet":"(5) Y
ellow":"(6) Orange":"(7) Gre
en"
400 ACCEPT AT(12,8)VALIDATE(
"1234567")SIZE(-1)BEEP:J ::
PRINT #1:CHR$(27)&CHR$(114)&
CHR$(J-1);
410 DISPLAY AT(12,1)ERASE AL
L:"Double-width? N" :: ACCEP
T AT(12,15)SIZE(-1)VALIDATE(
"YN")BEEP:DW$ :: IF DW$="Y"
THEN PRINT #1:CHR$(27);"W";C
HR$(1);:: CL=CL/2
420 DISPLAY AT(12,1)ERASE AL
L:"Superscript? N" :: ACCEPT
 AT(12,14)SIZE(-1)VALIDATE("
YN")BEEP:SS$ :: IF SS$="Y" T
HEN PRINT #1:CHR$(27);"S";CH
R$(0);
430 DISPLAY AT(12,1)ERASE AL
L:"Italics? N" :: ACCEPT AT(
12,10)VALIDATE("YN")SIZE(-1)

BEEP:I$ :: IF I$="Y" THEN PR
INT #1:CHR$(27);"4";
440 DISPLAY AT(12,1)ERASE AL
L:"Double-strike? Y" :: ACCE
PT AT(12,16)VALIDATE("YN")SI
ZE(-1)BEEP:D$ :: IF D$="Y" T
HEN PRINT #1:CHR$(27);"G";
450 IF P<3 AND SS$<>"Y" THEN
 DISPLAY AT(12,1):"Emphasize
d? Y" :: ACCEPT AT(12,13)VAL
IDATE("YN")SIZE(-1)BEEP:E$ :
: IF E$="Y" THEN PRINT #1:CH
R$(27);"E";
460 DISPLAY AT(12,1)ERASE AL
L:"Number of columns? (1-5)"
 :: ACCEPT AT(12,26)VALIDATE
("12345")SIZE(1)BEEP:NC
470 DISPLAY AT(12,1):"Column
 width (number of)":"charac
ters?" :: ACCEPT AT(14,13)VA
LIDATE(DIGIT)BEEP:CW
480 TC=NC*CW :: TA=CL-TC ::
TX=TC+NC*2-2
490 IF TX<=CL THEN 510 :: DI
SPLAY AT(18,1):STR$(NC)&" co
lumns of "&STR$(CW)&" charac
ters":"plus 2-column spacing
 equals"
500 DISPLAY AT(20,1):STR$(TC
)&" characters; maximum":"av
ailable in print size":"sele
cted is "&STR$(CL)&".":"****
Please reselect****" :: GOTO
 320
510 IF NC=1 THEN 530 :: AV=I
NT(TA/(NC-1)):: DISPLAY AT(1
2,1)ERASE ALL:"Column separa
tion?":"minimum 2":"maximum
"&STR$(AV)&" available ":"2"
520 ACCEPT AT(15,1)VALIDATE(
DIGIT)SIZE(-2)BEEP:CS :: IF
CS<2 OR CS>AV THEN 520 ELSE
S$=RPT$(" ",CS)
530 TA=TA-CS*(NC-1):: IF TA<
2 THEN 570
540 DISPLAY AT(12,1)ERASE AL
L:"Left margin width?" :: "ma
ximum "&STR$(TA)&" available
" :: ACCEPT AT(12,20)VALIDAT
E(DIGIT)BEEP:LT :: IF LT>TA
THEN 540
550 DISPLAY AT(12,1):"Altern
ating left/right":"margins
(for pages to be":"later re
produced on both":"sides) N"
560 ACCEPT AT(16,8)VALIDATE(
"YN")SIZE(-1)BEEP:A$
570 LSP=12 :: DISPLAY AT(10,
1):" ":" ":"Lines per page?
60":" ":" ":" ":" " :: ACCEP

T AT(12,17)VALIDATE(DIGIT)SI
ZE(-3)BEEP:LP
580 LSP=72/(LP/10):: PRINT #
1:CHR$(27);"A";CHR$(LSP)
590 RH=TA-LT
600 DISPLAY AT(12,1)ERASE AL
L:STR$(NC)&" columns of":STR
$(CW)&"-character width":"le
ft margin of "&STR$(LT)&" sp
aces"
610 DISPLAY AT(15,1):STR$(LP
)&" lines per page":"with "&
STR$(INT(LSP))&"/72 line spa
cing"
620 DISPLAY AT(17,1):STR$(CS
)&" spaces between columns":
"right margin of "&STR$(RH)&
" spaces": :"OK? Y"
630 ACCEPT AT(20,5)VALIDATE(
"YN")SIZE(-1)BEEP:OK$ :: IF
OK$="N" THEN 320
640 DISPLAY AT(12,1)ERASE AL
L:"Pause at end of page? N"
:: ACCEPT AT(12,23)VALIDATE(
"YN")SIZE(-1)BEEP:QQ$ :: IF
NC=1 THEN 660
650 DISPLAY AT(12,1)ERASE AL
L:"Print last page in even":
"columns? Y" :: ACCEPT AT(13
,10)VALIDATE("YN")SIZE(-1)BE
EP:EV$
660 DISPLAY AT(1,1)ERASE ALL
:"Input filenames to be":"pr
inted.":"Press Enter when do
ne."
670 X=X+1 :: DISPLAY AT(X+3,
1):"Filename  DSK" :: ACCEPT
 AT(X+3,14)SIZE(-12)BEEP:F$(
X)
680 IF F$(X)="" THEN X=X-1 ::
: GOTO 710 ELSE F$(X)="DSK"&
F$(X)
690 ON ERROR 700 :: OPEN #2:
F$(X),INPUT ,VARIABLE RL ::
CLOSE #2 :: GOTO 670
700 ON ERROR STOP :: CALL SO
UND(1000,110,0,-4,0):: DISPL
AY AT(20,1):"CANNOT OPEN "&F
$(X):: X=X-1 :: RETURN 670
710 ON ERROR STOP
720 SL=1 :: IF NC>1 THEN F=0
 :: GOTO 790
725 K=0 :: PP=1 :: LT$=RPT$(
" ",LT):: FOR J=1 TO X :: OP
EN #2:F$(J),INPUT
730 LINPUT #2:Q$ :: IF ASC(Q
$)=128 THEN 770 :: K=K+1 ::
PRINT #1:LT$&Q$&CHR$(10):: I
F K<LP THEN 770
740 IF QQ$="N" THEN 760

750 DISPLAY AT(24,7):"PRESS
ANY KEY" :: DISPLAY AT(24,7)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 750 EL
SE DISPLAY AT(24,7):""
760 PRINT #1:CHR$(12):: K=0
:: PP=PP+1 :: IF PP/2=INT(PP
/2)AND A$="Y" THEN LT$=RPT$(
" ",RH)ELSE LT$=RPT$(" ",LT)
770 IF EOF(2)<>1 THEN 730
780 CLOSE #2 :: NEXT J :: PR
INT #1:CHR$(12):: STOP
790 F=F+1 :: IF F>X THEN 890
 :: ON ERROR 800 :: OPEN #2:
F$(F),INPUT ,VARIABLE RL ::
DISPLAY AT(22,1):"Reading ";
F$(F):: ON ERROR STOP :: GOT
O 810
800 CALL SOUND(1000,110,0,-4
,0):: DISPLAY AT(20,1):"COUL
D NOT OPEN "&F$(F):: STOP
810 FOR IP=SL TO LP*NC :: LI
NPUT #2:M$(IP):: DISPLAY AT(
24,12):IP :: IF LEN(M$(IP))=
0 THEN 860 :: IF NC>1 AND PO
S(M$(IP),CHR$(13),1)<>0 THEN
 M$(IP)=SEG$(M$(IP),1,LEN(M$
(IP))-1)
815 IF LEN(M$(IP))=0 THEN M$
(IP)=RPT$(" ",CW)
820 IF ASC(M$(IP))=128 THEN
IP=IP-1 :: GOTO 870
830 IF ASC(M$(IP))<32 OR POS
(M$(IP),CHR$(27),1)<>0 OR AS
C(SEG$(M$(IP),LEN(M$(IP)),1)
)=32 THEN 860
840 IF LEN(M$(IP))<=CW THEN
860 :: T$=SEG$(M$(IP),1,CW)
: CALL SOUND(1000,110,0,-4,0
):: DISPLAY AT(12,1):M$(IP);
" over";CW;"characters":"tru
ncated to ";T$:"OK?"
850 CALL KEY(3,K,S):: IF S=0
 THEN 850 ELSE IF K<>89 THEN
 STOP ELSE M$(IP)=T$
860 IF LEN(M$(IP))<CW THEN M
$(IP)=M$(IP)&RPT$(" ",CW-LEN
(M$(IP)))
870 IF EOF(2)=1 THEN CLOSE #
2 :: SL=IP+1 :: GOTO 790
880 NEXT IP :: IF EOF(2)=1 T
HEN CLOSE #2 :: GOTO 910 ELS
E GOTO 910
890 FLAG=1 :: FOR J=IP+1 TO
NC*LP :: M$(J)="" :: NEXT J
:: GOTO 910
910 PP=PP+1 :: IF PP/2=INT(P
P/2)AND A$="Y" THEN LT$=RPT$
(" ",RH)ELSE LT$=RPT$(" ",LT
)
```

NEXT PAGE

```
920 IF EV$="Y" AND F>X AND I
P<LP*NC THEN LP=INT(IP/NC)+1
930 FOR J=1 TO LP :: ON NC G
OSUB 950,960,970,980,990 ::
NEXT J :: PRINT #1:CHR$(12):
: SL=1 :: IF F>X THEN STOP E
LSE IF QQ$="N" THEN 810
940 DISPLAY AT(24,1)BEEP:"Pr
ess any key to continue" ::
CALL KEY(0,K,S):: IF S=0 THE
N 940 ELSE DISPLAY AT(24,1):
"" :: GOTO 810
950 PRINT #1:LT$&H$(J)&CHR$(
10):: RETURN
960 PRINT #1:LT$&H$(J)&S$&H$
(J+LP)&CHR$(10):: RETURN
970 PRINT #1:LT$&H$(J)&S$&H$
(J+LP)&S$&H$(J+LP*2)&CHR$(10
):: RETURN
980 PRINT #1:LT$&H$(J)&S$&H$
(J+LP)&S$&H$(J+LP*2)&S$&H$(J
+LP*3)&CHR$(10):: RETURN
990 PRINT #1:LT$&H$(J)&S$&H$
(J+LP)&S$&H$(J+LP*2)&S$&H$(J
+LP*3)&S$&H$(J+LP*4)&CHR$(10
):: RETURN                END
```

****

PROGRAM OF THE MONTH
————————————————

by Bob August

The program this month will
read and list any TI-WRITER
program to the screen or
printer. The program can
be any size and it will
still read it. It will
also read and/or print any
DV80 file, like data files.
You need to check line 210
to make sure that the
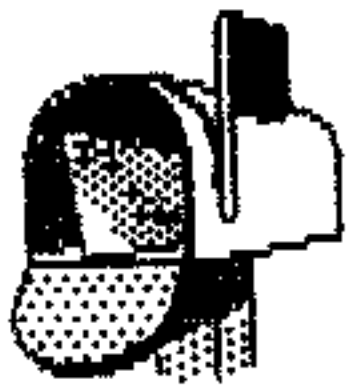printer name is the same as
yours. It is set for "PIO".

To stop the screen from
scrolling, so you can read
the screen, press the enter
key. To start the scroll-
ing again, press the space
bar.

Hope you enjoy.

```
100 ! < READ TI-WRITER >
110 ! IN EXTENDED BASIC
120 ! BY R.W. AUGUST
130 CALL CLEAR :: CALL SCREE
N(5):: FOR CS=0 TO 12 :: CAL
L COLOR(CS,16,1):: NEXT CS
140 DISPLAY AT(6,6):"< READ
TT-WRITER >": : : :"DSK DRI
VE [1-9]:[1]"
150 ACCEPT AT(10,19)VALIDATE
(NUMERIC,"123456789")SIZE(-1
)BEEP:N :: N$=STR$(N)
160 DK$="DSK"&N$&"."
170 DISPLAY AT(12,1):"ENTER'
filename'": :DK$
180 ACCEPT AT(14,6)SIZE(10)B
EEP:F$ :: FILE$=DK$&F$
190 DISPLAY AT(16,1):"TO Pri
nter [P]":"or  Screen [S]:[P
]" :: ACCEPT AT(17,18)VALIDA
TE("PS")SIZE(-1)BEEP:P$ :: C
ALL CLEAR
200 OPEN #1:FILE$ :: IF P$<>
"P" THEN 230 ELSE 210
210 DISPLAY AT(12,1):"PRINTI
NG FILE < ";F$;" >" :: OPEN
#2:"PIO",OUTPUT
220 LINPUT #1:A$ :: PRINT #2
:A$ :: IF EOF(1)THEN 320 ELS
E 220
230 PRINT "Press:": :"[ENTER
 KEY] to stop listing.": :"[
SPACE BAR] to continue.": :
240 FOR DELAY=1 TO 800 :: NE
XT DELAY
250 LINPUT #1:A$ :: PRINT A$
 :: IF EOF(1)THEN 290
260 CALL KEY(0,K,S):: IF S<>
1 THEN 250 ELSE 280
270 IF S<>1 THEN 330 ELSE 28
0
280 CALL KEY(0,K,S):: IF K<>
32 THEN 280 ELSE 250
290 CLOSE #1 :: PRINT :"End
of File < ";F$;">": :"Press
any Key."
300 CALL KEY(0,K,S):: IF S=0
 THEN 300 ELSE STOP
310 IF S=0 THEN 300 ELSE STO
P
320 CLOSE #2
330 DISPLAY AT(14,1):"FILE <
 ";F$;" > PRINTED" :: CLOSE
#1 :: END
```

FROM THE MAILBOX

An edited letter from a Canadian TI user.

<div align="right">

RR 1 The Glen
Omemee Ontario
Canada
KOL 2WO

December 10,1991

</div>

Jean Hall
181 Heischman Ave
Worthington OH
USA   43085-2623

Dear Jean,

Thank you very much for your letter and the two disks of programs you enclosed.

I've played around with the programs a bit. I'm glad you provided PRNTA/NX10. I use a Star NX1000 and the PRINTALL program doesn't seem to like it, though it's normally Epson compatible. Based on two tries, Ron Prewitt's COLUMNTEXT looks like it is more user-friendly than PRINTALL, but I haven't yet tried printing out programs with either of them, just text.

Bill Harms of Chino CA also responded to my request for suggestions. He sent me a copy of his MULTI-COLUMN PLUS program and enclosed a note saying that his program is a little complicated and mentioning Ron Prewitt's as a more user-friendly (though fewer-featured) alternative. That may be so, I couldn't get MULTI-COLUMN PLUS more than one step past the main screen. But, I have written Bill Harms asking for guidance. Hopefully, I'll be able to run a comparison test early in the new year.

Our KAWARTHA club just produced a calendar disk for the club. Here is a copy of this calendar disk. I especially like two calendar programs written by Lucie Dorais of OTIUG, the Ottawa group. You may find use for them. Oh, by the way, Lucie Dorais' programs were originally named CALENDAR and CALPERPET. To prevent conflict with any other calendar program they were renamed CALLUCIED1 and CALLUCIED2, respectively.

Thanks again for your response. Wishing you all the best for Christmnas and the New Year.

<div align="right">

Sincerely,

Richard Bulmer

</div>

Thanks, Dick for your letter. Letters are always welcome from our newsletter readers. Please send us your questions, problems, comments, etc. We will try our best to answer all letters. This letter was answered earlier. -ED.

TI CASINO -- A Review
by Dick Beery and Bob DeVilbiss

If you haven't yet tried the latest revision (3.0) of TI CASINO by Ken Gilliland, do so as soon as possible. This is a slick, well designed and smoothly-operating set of casino-type games for the 4A and Geneve. Games include craps, draw poker, keno, acey-deucey, baccarat, blackjack, roulette and slot machines. Apart from the games, there are many interesting devices to entertain you, beginning with the flashing "neon" sign outside the casino, the standup comedian at the Club Notung, the charming waitress at the Keno Dinner lounge, and more! Try leaving while owing the casino money, and see what happens! This is a remarkably interactive set of games that create the illusion of being truly present at a casino. Beats airfare and room costs at Las Vegas, right?

Like the real casinos, you must have money in order to play the games. After the opening screen you will be introduced to the cashier who is a charming lady who will give you an instant loan of $1000 from the credit office along with a friendly wink as you leave. They are very generous and you can go back for more later. if necessary. You might not have to, however, as the games are fair but tough enough to hold your interest. The casino remembers how much money you have as you pass from one game to another, which lends much realism to the situation. My personal favorites are Acey-Deucey, Blackjack and of course the Slot Machines.(Dick speaking)

Now that you have ready cash, you are permitted access to the lobby by selecting it from the menu. Once in the lobby you have the choice of going to any of the eight game rooms. Your selection is made by moving the pointed hand with the joystick to the game wanted. Press the fire button and away you go to play the game selected. Wagers are placed by various movements of the joystick.

I like acey-ducey, keno and blackjack.(Bob speaking) The keno game is played in Jocko's Green Parrot Restaurant. You can either have dinner and play keno or just stay in the lounge and play. If you press "W" before you start a keno card, Carrie, the waitress will come to your table and take your order from the menu displayed on the screen. Shortly, your order is served. You are cautioned to pay your check before leaving keno.

After you have played all the games and would like some relaxation and entertainment, you may want to visit the Club Notung. The price of admission is $50. You are met by the Maitre'd who will seat you. Be cautious, he grunts impatiently and you notice his hand is out looking for you to tip him $20, which is the default amount. If you pay that amount, he looks around and says,"There is an excellent front row table for you". If you reduce the $20, to say $0, you will be seated in the back row behind two tall people making it impossible for you to see the entertainer.

If you are lucky and hit a winning streak there are other options for you. You can go to the ready teller and create an account with your own password. From this account you can deposit or withdraw. You can even have a check printed. Another neat thing, If you quit Casino and come back another day to play again your account will still be there for you. Neat eh!

Playing the slot machines, I would like to see the speed of the cylinders coming to rest speeded up. After a few plays I tend to get a little impatient waiting for the cylinders to stop. Well I guess you can't please everyone!

The program comes with a forty-five page manual that explains how each game is played and offers helpful tips. It also gives a history of the program and some background on Ken Gilliland and his other life endeavors. By the way, Ken is a really nice guy. I had the pleasure of chatting with him at length (Dick speaking) at the 1991 Chicago Faire. He is a little shy, but a warm and friendly guy whose personality is an indication as to why this program is so well constructed and executed. Keep up the good work, Ken.

TI-Casino is distributed by: Notung Software, 7647 McGroarty St.; Tujunga, CA 91042
Cost $15+ $1 S/H. California res. add sales tax The program is available on either SSSD or DSSD disk. Requires XBasic, 32K memory, joystick, printer (optional).   END

SLIDING BLOCK PUZZLES
REVIEW BY DEANNA SHERIDAN
NORTHCOAST 99ERS - CLEVELAND, OHIO

If you enjoy "thinking games" instead of the shoot 'em up type, you will enjoy SLIDING BLOCK PUZZLES by Norman Rokke. If the name isn't that familiar to you, several of us have used his "1000 Words" fairware program to create graphics for TI-Writer.

Norman Rokke is a professor at a college along the Ohio River, and I believe his specialty is physics. Only a person with high math capability would be able to come up with these puzzles. They follow the idea of the old mosaic puzzles and the little hand-held puzzles with one piece missing, and it is your task to place them in a certain order of numbers, letters, or whatever, to complete the puzzle.

There are so far, two series of these puzzles. I picked up the Series I at the Lima meet. It has three puzzles, evidently going from the easiest to the hardest. (You can't prove it by me, as I have been unable to solve ANY of them as yet.) In this case, the blocks are of varying colors, and it is the puzzle solvers job to get the large RED block from its beginning position at the top left-hand of the screen to the bottom-right.

The documentation states that the first puzzle can be solved in a minimum of 59 moves; the second in 81 moves; and the third in 90 moves. If you want hours of concentration at your computer, this is the disk for you. After you have conquered Series I, there is a Series II. If you enjoy working this type of puzzle, but just can't seem to get a "clue" as to how to go about it, you can obtain SLIDING BLOCK SOLUTIONS - SERIES I and II. The advertisement for the solutions states that it gives you just the right amount of help without the risk of spoiling the game as you control the amount of help you receive.

Sliding Block Puzzles is distributed by MS Express Software, P.O. Box 498, Richmond, Ohio 43944. If MS Express is not familiar to you, any adventure fan of the TI world has heard of Mickey Schmitt of the Pittsburgh and West Penn user groups. She and Lynn Gardner have written adventure programs which have been distributed through Asgard. In fact, in addition to the Sliding Block Puzzle series, they also have available Adventure Hints - Series I and II, as well as a simulation game entitled, Galactic Emperors.

The Sliding Block Puzzles disks are $7.95 each, as well as the solutions disks. Adventure Hints - Series I and II sell for $9.95 each, and Galactic Emperors sells for $9.95.   END

TI-WRITER!
JUST FOR US BEGINNERS
IN TI-WRITER
by Jim Lesher
from Dallas 99 Interface

Suppose you have a page of text with just about 3 or 4 lines left over. Oh, how you would like to get those extra lines on just one page. Well, here is one way we can do it. Looking at the numbers on the left side of your screen, when you are in TI WRITER edit mode, we have 70 lines and we want to put them all on one page which normally only accepts 66 lines. With the cursor at the upper lefthand corner of the page, press FCTN 8 to give yorself an extra line to work with. Then press CTRL U FCTN R FCTN D and look down the list for the number 70 and see what it matches up with. It should be 22. Now we don't want the lines to go to the very bottom of the page so let's use 21. Now if we look on page 146 of our TIW manual, at the list on the next page, we find that 21 is a shift U, so at this point we press SHIFT U. Then press CTRL U again to return to normal key function. And at the space between the strange looking characters when you pressed FCTN R and the other strange looking character when you pressed SHIFT U, place the number 3. The first character is an escape character telling the printer "Pay attention here, I'm going to give you a

command." The 3 is the code for the printer to change the line spacing and the last character is the character the printer recognizes as 21. And so there you are.

Suppose you wanted to go the other way, you want to fill the page with only 50 lines. Look down the list and find 50. WHOA! What's this, the number 2? That's right, immediately after typing in the escape character (the tiny b), press CTRL U to get back to normal key operation and type 32. The minimim number of lines seems to be about 13, the maximum is about 105. If an attempt is made to go beyond this limit, the top of one line starts merging into the bottom of the line above it. Now for the 1,2,3 system. For 70 lines per page. After you have positioned the cursor in the upper left corner and inserted a space with FCTN 8:

1. Press CTRL U
2. Press FCTN D
3. Look up the number 70
4. Note that it matches number 21
5. Note that 21 matches SHIFT U, Press SHIFT U
6. Press CTRL U
7. Type a 3 between the tiny b and the tiny 5
8. Print the page.

DEBBIE BLUCHER'S
FAMOUS PUMPKIN PIE

This article is in response to an overwhelming public demand.

The "secret" is to use FRESH pumpkin.

Clean pumpkin, cut off rind, and cut into cubes - boil until soft - then mash.

Note: You will get more than one pie from an average pumpkin but cooked pumpkin may be frozen in Tupperware containers for future use. Frozen pumpkin would be thawed, then liquid drained off before using.

Ingredients;

1-1/2 cups Pumpkin	1/4 tsp Nutmeg
3/4 cup Sugar	1/4 tsp Ground Cloves
1/2 tsp Salt	3 Eggs
1 tsp Cinnamon	1/2 cup Milk
1/2 tsp Ginger	

Mix ingredients together, then add to unbaked pastry shell.

Bake in 400 deg oven for 50 minutes.

C.O.N.N.I. CLEARINGHOUSE AND BBS

In this article I'll update you briefly on some changes I have made in the BBS and on the Clearinghouse project.

As I am writing this article I am testing some changes in the BBS which should be implemented before you read this. I am copying the user database to the Clearinghouse with an access level which will allow everyone to look around. You will not be able to download files or leave messages, but will be able to view the file descriptions and read messages. I am also making it easier to update user info I.E. name, city/state, phone number etc.

Users of the Clearinghouse will be Associate Members of C.O.N.N.I. with dues of $30.00 for the first year, and probably a smaller amount in subsequent years.

Currently there are 8 libraries on each section. On the main the first four libraries still contain a mixture of files. Libraries 5-8 are broken down into categories. As time allows the first 4 libraries will be broken down into separate categories. Here are the current libraries on both the main BBS and the Clearinghouse.

On the main (starting with library 5): On the clearinghouse:

LIB. 5: F/X (sounds/music)
LIB. 6: GENEVE FILES
LIB. 7: OLDIES/GOODIES1
LIB. 8: SNF (MIDI) FILES

LIB. 1: SPIRIT OF 99 (CONNI)
LIB. 2: TIPS FROM THE TIGECUB
LIB. 3: TIGERCUB ARTICLES
LIB. 4: BLUEGRASS 99'ERS
LIB. 5: TI*MES NEWSLETTER
LIB. 6: LIMA UG NEWSLETTER
LIB. 7: Programbiten (Sewden)
LIB. 8: LIMA OLDIES/GOODIES

In library 2 on the Clearinghouse we have all 66 of the Tips From The Tigercub files.

Sample listing of files in the Clearinghouse

LIB: 1 — MANPREV Review of Patrick Powell's TIPS Manipulator.
       — MEDICAL Compares out-of-pocket expenses of various health insur-
           ance programs.
       — NOV-NEWS News from all around the 4A and 9640 world.
       — CLEAR Latest article announcing the start of the Clearinghouse
LIB: 4 — FILING Bluegrass 99'ers articles from 1990.
           — FORMATFIX TI Writer formatter fixes.
       — FPROTOCOL TI's file protocol.
       — FRACTEX Fractal explorations.
       — GAMES Commentary on games.
       — HINTS Hints from various sources
       — HOSEX Extending the firehose cable.
LIB: 5 — DDS Advice for new disk drive owners as to desirable programs
       — EXP About expanding your system.
LIB: 6 — EDMODULES Educational cartridges produced by TI.

Printer Controls

There is a printer Database (Db) located on the TI-Base (TIB) program disk. This Db contains X type fields which are tricky to work with, but are quite useful if mastered. I have listed my PRINTER Db at the bottom of this page for your inspection. Note: I have chopped off the length of the BLANK field so it would fit on the page. The name of this Db is simply PRINTER and is invoked by a line in the SETUP CF that consists of the word PRINTER followed by the name of your printer. In my case it's PRINTER EPSON. This is the line you will see in the SETUP CF that comes from Inscebot, but there will be a * (asterisk) at the beginning of the line. The asterisk tells TIB that this is a comment line so it is not executed. If you remove the asterisk from that line the PRINTER Db will be used by TIB, the data in the EPSON (or whatever) section will be moved to active memory and the PRINTER Db will be closed. At that point (if your printer is ready) you can send printer commands with a simple (FF) for Form Feed, or (CR) for Carriage Return, etc.

Marty's PRINTER Database info

CREATED   CHANGED 04/30/89

FIELD	DESCRIPTOR	TYPE	WIDTH	DEC
1	NAME	C	010	
2	FF	X	002	
3	LF	X	002	
4	CR	X	002	
5	G	X	004	
6	UL	X	006	
7	e	X	002	
8	f	X	004	
9	4	X	004	
10	E	X	004	
11	SPS	X	006	
12	SBS	X	006	
13	HT	X	002	
14	ST	X	020	
15	Drft	X	026	
16	BLANK	X	030	

003 1 PRINTER 00006/00008

Remember, until you remove the asterisk (*) from the beginning of the "* PRINTER EPSON" line in the SETUP CF and rerun the SETUP CF or restart your system, none of this stuff will be available to you. "OK, the PRINTER Db." The PRINTER Db is just another Db. If you follow the rules you can use it to great advantage. [The Rules!] The first FIELD must be NAME, it must have a WIDTH of 10, TYPE must be "C" and the PRINTER Db must be SORTed ON NAME. All of the other FIELDs must be X type and must be even in length (WIDTH). NOTE: They can be 2,4,6,8,10,26,30 etc., they cannot be 3,9,11,29 etc. In the DESCRIPTOR column, NAME must be first, "FF" must be second, "LF" must be third and "CR" must be fourth. After that you can put whatever you want in the DESCRIPTOR column.

| USE DSK1.PRINTER | <E> | IMPORTANT! |

MODIFY STRUCTURE   <E>

Make all the changes you need.

(Fctn 8)   <E>

Select [USE DATA AS-IS]
Press ENTER

Never use (Fctn =) to Quit or turn off your system to leave TI-Base. The way to leave TIB is to type QUIT and press ENTER "<E>" at the Dot prompt (Dp). Quiting TIB by any other means could destroy an open Db.

The USE sequence above will help you modify your PRINTER structure (as I have). "If you want to leave the structure as it comes from Inscebot, that's OK too. The things I'm telling you are just suggestions, not commands." To modify the data in the PRINTER Db you can USE it and then type EDIT <E> instead of the Modify Structure. I will try to give you some idea as to my modifications of the PRINTER Db. On the STAR NX 1000 printer I use for data printing, (ESC E) starts Emphasized print mode. So I changed that DISCRIPTOR to simply "E". You can see it as item 10 to the left. Then I EDITed the data in my PRINTER Db so the RECord for EPSON under E contained 1B45. This is the actual data that will be sent to the printer when I issue a (E). So what is 1B45? If you EDIT the data and type in 1B45, you enter it exactly as it looks, (one, "B", forty-five). However, TIB sees it as two bytes of Hex. The first byte is 1B, which is Hex for 27, which means <ESC>. The second byte is 45, which is Hex for 69, which is decimal for "E", which is where we started. If you look in your NX 1000 printer manual, around page 61, you'll see Emphasized printing [ASCII = <ESC> "E"], [Decimal = 27 69], [Hexidecimal = 1B 45]. You will find this information in almost all printer manuals. Enter the stuff under Hexidecimal as data in the PRINTER Db (using NO SPACES).

Next Page. ✒

REC	NAME	FF	LF	CR	G	UL	e	f	4	E	SPS	SBS	HT	ST	Drft	BLANK
0006	DIABO	0C	0A	0D	0000	000000	00	0000	0000	0000	000000	000000	09	00000000000000000000	00000000000000000000000000	00000000000
0000	EPSON	0C	0A	0D	1B47	1B2D01	0E	000F	1B34	1B45	1B5300	1B5301	09	1B440000000000000000	1B481B2D0014121B351B461B54	00000000000
----	-----	--	--	--	----	------	--	----	----	----	------	------	--	--------------------	----------------------------	-----------
0003	MX-80	0C	0A	0D	1B47	000000	0E	000F	0000	1B45	000000	000000	09	1B440A0A0A0A0A0A0A00	1B4814121B4600000000000000	00000000000
0002	NEC	0C	0A	0D	0000	000000	0E	1B51	0000	1B21	000000	000000	09	1B283031302C30320000	1B220F1B4E0000000000000000	00000000000
0004	OKIDATA	0C	0A	0D	1B48	1B4300	1F	001D	0000	1B54	001B4A	001B4C	09	00000000000000000000	00000000000000000000000000	00000000000
0005	PROPRINTER	0C	0A	0D	0000	000000	00	0000	0000	0000	000000	000000	09	00000000000000000000	00000000000000000000000000	00000000000
0007	SEIKOSHA	0C	0A	0D	1B23	1B5800	0E	1B43	1B42	1B48	1B5500	1B6800	00	00000000000000000000	1B241B590F1B4E000000000000	00000000000
0001	TI-850	0C	0A	0D	1B47	000000	0E	000F	0000	1B45	000000	000000	09	1B440A0A0A0A0A0A0A00	1B4814121B4600000000000000	00010000000

TI-Base — By — Inscebot, Inc.

P.O.Box 291610, Pt.Orange, FL 32129

Version 3.01 Tutorial 24.1.2 By *Martin A. Smoley*

NorthCoast 99'ers User Group – Sept 14, 1991

In my PRINTER Db (G) stands for Double-strike, (UL) stands for Start underlining, (e) stands for Expanded print one line, (f) stands for Condensed print, (4) = Italic, (E) = Emphasized, (SPS) = Superscript, (SBS) = Subscript, (HT) = Horizontal tab, (ST) = Set horizontal tab stops every n columns and (Drft) stands for return to Draft Mode, or turn off everything I described previously. Drft is the hard one of the bunch. If you make any changes to the ON commands I just mentioned, you will also need to change the commands that turn off that printer change. The OFF commands are all lumped together in Drft. I have put a dashed line under the EPSON section and I have placed vertical marks under the last character of the individual commands in the Drft field. You can compare these commands to the OFF commands in the manual that came with your printer. If you want to produce nice looking reports, with columns of numbers or whatever, you will need to completely understand your printer handbook commands and how to install them in this portion of TIBs command system. I have listed one of my many label programs on this page to give you some idea of the use of the printer commands within TIB. All the print stuff is done near the end of the CF. This CF may use Condensed, normal sized Emphasized and possibly Expanded Emphasized print on a single label, depending on the overall length of the persons name which it finds in Name Length [NL]. This CF must be typed in using FunnelWeb or TI-Writer as it is too big for TIB's MODIFY COMMAND setup. In order to use it you need a printout of the Db to be able to enter the persons REC number when asked. "INTERESTING NOTE", [See GO RCNM], This command i.e. GO 4, GO 78 will locate a record from a CF or from the Dp. It will GO to that RECord no matter how the Db is sorted.

1LBL91/Command File

```
*              09/01/91        1LBL91/C
CLOSE ALL
SET TALK OFF
SET HEADING OFF
SET RECNUM OFF
SET PAGE=000
SET PRINTER=RS232.CR.LF.DA=8
CLEAR
WRITE 10,4,"RS232.CR.LF.DA=8"
WRITE 12,4,"Turn the printer on now!"
WAIT 3
WRITE 10,4,"                            "
WRITE 12,4,"                            "
    USE DSK2.CLUB91
LOCAL TEMP1 C 60
LOCAL TEMP2 C 39
LOCAL TEMP3 C 40
LOCAL ANS N 2 0
LOCAL RCNM N 4 0
```

```
WRITE 2,4,"To quit this Command File"
WRITE 4,4,"Enter Record Number:   999"
WHILE .NOT. (EOF)
WRITE 10,4,"Enter the Record Number: "
READ 10,30,RCNM
WRITE 2,4,"                            "
WRITE 4,4,"                            "
GO RCNM
  IF (EOF)
    CLOSE ALL
    RETURN
  ENDIF
    REPLACE TEMP2 WITH TRIM(FN) ¦ " ";
             ¦ MI ¦ " " ¦ LN
WRITE 10,4,TEMP2
WRITE 14,4,"0 = no labels"
WRITE 16,4,"How namy Labels:"
READ 16,21,ANS
WRITE 10,4,"          Printing Labels    "
*
    REPLACE TEMP1 WITH "                  ";
¦ "              Exp. Date: " ¦ XP
  IF MI = "  "
    REPLACE TEMP2 WITH TRIM(FN) ¦ " ";
                    ¦ LN
  ELSE
    REPLACE TEMP2 WITH TRIM(FN) ¦ " ";
             ¦ MI ¦ " " ¦ LN
  ENDIF
    REPLACE TEMP3 WITH TRIM(CT) ¦ " ";
             ¦ ST ¦ "       " ¦ ZP
  WHILE ANS > 0
    PRINT (Drft),(f),(G),TEMP1,(LF)
    IF NL < 17
    PRINT (Drft),(E),(G),(e),TEMP2
    ELSE
    PRINT (Drft),(E),(G),TEMP2
    ENDIF
    PRINT SA
    PRINT TEMP3,(LF)
    REPLACE ANS WITH ANS - 1
  ENDWHILE
ENDWHILE
CLEAR
CLOSE ALL
SET PRINTER=PIO.CR.LF
SET TALK ON
SET RECNUM ON
SET HEADING ON
RETURN Copyright Martin A. Smoley 1991
*
* 1LBL91  Save as 1LBL91/C  09/01/91
* ******       Prints all Labels
*          USEs CLUB91 ----- DSK2.
* Prints to TI/Epson Printer - RS232
```

Good luck with TI-Base.   Marty.

Maybe Next Month

MEETING DATES FOR 1992

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