KINGS 99ers USERS GROUP
299 West Birch Ave.
Hanford Ca. 93230

Bill Mills, Pres. (209) 582-1385

September Meeting:

Having missed our August meeting (and newsletter) as announced in the July newsletter, it seems like a long time since we have gotten togather. Our regularly scheduled meeting will be on the FOURTH Monday of the month, so, see you there!

Monday, September 24,1984
7:oo pm (prompt!!!!)
Special Education Center
1255 Beulah St.,Hanford

July Minutes:

It was nice to see several new faces and to welcome Wes Parker as a new member. It might interest some of you to know that Wes is a professional (full time) computer programmer for the county of Kings. We had a lot of books on display- a special thanks to the local B. Daltons bookstore for lending us their entire stock of TI books. Ron Taylor brought his direct connect printer (no expansion box, no extras, just plug into the side of the computer) and demonstrated it for us. It proved real handy when one of the members needed a print out of a program. Thanks Ron.

Random Access-Quality 99 Software:

We have just received a letter from Larry Hughes stating he will no longer be able to write his column "Random Access" because of the increase in his business. Lets remember to support his fine products-QUICK COPYer, etc.

B. Daltons:

Again thanks to B.Daltons bookstores for letting us take their books on consignment. If you don't have your name on their computer book mailing list you probably should do so. You may send in this coupon, photo copy it if you don't want to cut up your newsletter or go to your local bookstore and ask for a copy.

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☐ Apple III
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☐ Commodore VIC 20
☐ Commodore 64
☐ Coleco Adam

☐ I use a computer
☐ IBM-PC/XT or IBM Compatible
☐ IBM-PC Jr.
☐ Texas Instruments TI99-4A
☐ TRS-80 Color Computer
☐ TRS-80 Model II/16
☐ TRS-80 Model I, III, IV
☐ TRS-80 Model 100

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Complete this form and give it to cashier or sales clerk. Or mail to:

B. Dalton Bookseller
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7505 Metro Blvd.
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What computer magazines do you like best?

_____
_____
_____

Bye-Tex:

We will all miss one of our most active members. Tex Barberite has left the area to become a Peace Corps worker in a very remote part of South America. If we get her address in the future, we'll pass it on in the newsletter. Just a note of interest, Tex sold all of her belongings; furniture,car, etc. EXCEPT the TI computer and accessories, those went to storage!

Apologies Due:

In the July issue of the newsletter I told you about the great T.I. dealer we found in the bay area, I even went so far as to give you their phone number-but most important I forgot to tell you who they were! So in the form of an apology I give them two plugs (last months and this months) and a copy of their busness card. By the way they are the sponsors of the Users Group that is giving us a copy of their entire program library (see Jeani's article for further information on this).

TI Care Package:

In addition to the TI Advanced Assebly Language Debugger, we have just received another care pakage from TI. This months package contain updated disks for TI-WRITER, Multiplan and TI FORTH Assembly Code. Some of the changes are : Multiplan has been sped up, auto repeat curser when moving the curser around the page; TI-WRITER now has true lower case, elimination of form feed when using the formater and addition of printer default when using the format mode; plus the addition of Asseembler Code to FORTH. If you need copies of these programs let us know. Also if you need copies of these, plan on copying the letter at the meeting as it has some specific instructions.

Membership Benefits:

1. Contact with other T.I. owners.
2. Information on TI hardware and software.
3. The latest information on third party (companies other than TI) products for your computer.
4. Programming Help.
5. Monthly meetings with informative programs.
6. Monthly newsletter (and a good one too!).
7. And very soon, a large (very large, I understand about 80 disks worth) program library-see Jeani's article!

Interesting Editorials:

Two users groups have had extreemly interesting editorials lately-because of space limitations I'm not going to try to reproduce them. If you are interested, please look at the August Leigh 99'er and Vol 3 No 5 of the L.A. TopIcs newsletter. Both of these will be in the blue binder at the meeting.

Raffle:

Don't forget to bring articles for our monthly raffle. All members are asked to bring a minimum of one article per year (p.s. Our year started over in July). This can be a program you have developed, one you have typed in from some other source or a module you no longer need. We sell raffle tickets at each meeting, a good way to expand your personal library and help the club at the same time.

Unusual Ad

We have reciently received an ad for computer print out Christmas cards, if you have a printer and are interested look in the appropriate blue binder. The rest of you might be interested in reading some of the different ads we receive each month, just look in the blue binder under "Hardware/Software".

Sales Pitch:

Remember, Jeani can still get computers, expansions boxes, disk drives and almost any program ever writter for the TI.

JEANI'S JABBERINGS

PROGRAM LIBRARY:
AN OFFER YOU CAN'T REFUSE !

Many club members have expressed to me, over a period of time, a desire for a club library where they would have access to many programs written for their T.I. computer. Personally I think it's a great idea. The biggest drawback I see, is our lack of funds and equiptment to operate and maintain such a library. It would require at least one disk drive and 50 to 100 disks. I strongly feel that the few people who own full setups should not obligate in any way their equiptment for the purpose of a club library. These members have already gone beyond the call of duty to pack their equiptment regularly to meetings for the purpose of special demos. At this point in time the club owns no equiptment. The Kings County Superintendant of Schools has been nice enough to let us use their building, computers, televisions and tape decks for our monthly meetings - free of charge! (thanks Hoot and John). The newsletter is formatted and printed primarily on my personal equiptment and all dues money goes into copying and mailing expenses.

So, how do we start a library? First, I'm willing to purchace for the club, at my wholesale cost, an EXPANSION BOX, 32K MEMORY CARD, DISK CONTROLLER CARD AND DRIVE, plus the necessary disks and storage units. Terry Higdon, president of the Bay Cities User Group, has graciously offered to copy their entire club library to our disks, just to get us started. (This represents hundreds of public domain and uncopywrited programs.) The library then grows as we purchace and trade, with other user groups, for new programs.

How do we pay for it? Since dues can't cover the equiptment, and I need full payment before I can order, I feel CO-OP is our best approach. If we can get a minimum of 25 members to donate $20.00 each, we can really make it work. Those members buying into the CO-OP would in return have free access to copy any or all library programs for their own use for a full year. All other club members would have to pay a fee, say $1.00, per program.

Now stop and think about it. Twenty dollars is what you would normally expect to pay for just ONE program, not the hundreds you will have access to in our new library. Besides, you will also be purchacing equiptment for the club to use regularly at their meetings. Think about it, give me a call this week, and let's make our library a reality.

JEANI 582-1385

LIBRARY CO-OP APPLICATION

Enclosed is my $20.00 library co-op fee. I understand this will allow me free copying privileges of all Kings 99ers library items for a one year period of time (library memberships are only available to current, active members of Kings 99ers). It is further understood that these funds are being held in trust and will be refunded in full if there is not suficient funding to set up the library.

Name_____

Address_____

Phone_____

* * * * * * * * * * * * * * NEWS FLASH * * * * * * * * * * * * * * * *

*   I Have just received word that Terry Hibdon, owner of Bay Cities *
* Electronics, will be our September speaker. He will be demonstrating*
* all of the newest hardware for your TI. Including such hot items as *
* the Milton Bradley Expansion Box, The new Super Sketch Pad and Cor-
* Comps new Disk Controller Card. In addition to our raffle he will   *
* give away three door prizes (he told me at least one of them will be*
* valued in excess of $50.00!). This should be one our most interesting
**and productive meetings ever. See you at 7:00 on the 24th!

* *

****

SPECIAL!!

WE HAVE A SPECIAL OFFER FOR PEOPLE WHO WISH TO UPGRADE THEIR SYSTEM WHEN THEY JOIN THE LIBRARY CO-OP ! ! !

OUR SYSTEM CONTAINS THE T.I. PERIPHERAL EXPANSION BOX WITH IT'S CONTROLLER CARD YOU ALSO GET A T.I. SINGLE SIDED DISK DRIVE AND THE T.I. DISK CONTROLLER CARD AND TO TOP IT ALL OFF YOU WILL RECIEVE A T.I. 32K MEMORY EXPANSION CARD !!

THE FULL RETAIL VALUE OF THIS PACKAGE IS $799.95. MY REGULAR PRICE FOR THIS TERRIFIC PACKAGE IS ONLY $525.00, BUT, FOR A LIMITED TIME ONLY, I AM MAKING THIS SPECIAL OFFER TO MEMBERS WHEN THEY JOIN THE LIBRARY CO-OP. MY ONE-TIME SPECIAL PRICE IS ONLY $425.00 FOR THE COMPLETE SUPER PACKAGE ! ! ! ! THAT'S A SAVINGS OF $100.00 OVER MY REGULAR PRICE! !

THE FOLLOWING TERMS APPLY TO SPECIAL PURCHASES:
1. All orders pre-paid, no credit or cards.
2. All orders shipped with the club's order (as soon as we get enough co-op members to place the club order, the offer will close and all orders will be sent to my distributer at once.)
3. Any service and repairs will be made through the purchacer and T.I. (All items have a 90 day complete warrenty)
4. Initial set up included (or a group class if enough purchases are made)
5. All purchacers must be paid members of King's 99ers and library co-op members.
6. All orders may be voided if there is not enough support of the library co-op

WHY AM I WILLING TO SELL THESE BOXES AT SUCH A LOW PRICE THAT I DON'T MAKE A PROFIT? BECAUSE 1.THERE ARE VERY FEW OF THESE EXPANSION BOXES LEFT. THEY CAN NO LONGER BE PURCHACED IN THE STORE WHERE YOU BOUGHT YOUR COMPUTER AND 2. I WOULD LIKE TO SEE MORE OF THEM IN THE HOMES OF OUR MEMBERS. JUST THINK, WITH A DISK DRIVE AND FREE ACCESS TO OUR NEW LIBRARY, YOU MAY NEVER HAVE TO BUY A MODULE AGAIN. PLUS YOU WILL HAVE A COMPLETE SETUP AS POWERFUL AS YOUR RICH NEIGHBOR'S APPLE OR I.B.M. PC (ACTUALLY BETTER) AND AT 1/3 TO 1/4 THE PRICE!!!!

THIS IS A LIMITED TIME OFFER SO ACT NOW!!!

CALL: JEANI MILLS 582-1385

VAUGHN SOFTWARE
FOR THE TI-99/4A

5460 Harlan st. #84 Arvada, CO 80002 1-303-425-5143

Dear TI user:

We are sending these two programs for your user's group. We think they might be of interest to your members.

The first program is helpful in demonstrating what the second program (DATA LINKER) does. After you take out all the remarks the linker makes a good routine for programs run under program control.

```
100 REM Type only line 240 through line 270.
110 REM This program is just for demonstration purposes. It shows how the old pr
ogram should leave a data trail
120 REM for the data linker. Notice that all string values are preceeded by a sp
ace. When you print a numeric value it is printed in column
130 REM number four. This is where the linker will look for it.
140 REM
150 REM By modifying the linker program you can pass more values.
160 REM ******************************
170 REM .              !
180 REM .              !
190 REM .   Main body of the old program.
200 REM .              !
210 REM .              !
220 REM ******************************
230 REM
240 SCORE=10 :: TIME=524 :: PLAYER$=" JOHN^BROWN <---NAME" :: CODE$=" PASSWORD <
---OLD PASSWORD"
250 REM Watch what happens after the space in "BROWN" and "PASSWORD".
260 CALL CLEAR :: PRINT SCORE:TIME:PLAYER$:CODE$: : :
270 RUN "DSK1.LINKER" ! This line should run the linker. It can say RUN "CS1" if
 the linker is on tape.
```

```
100 REM  ******************
110 REM  *  DATA LINKER    *
120 REM  *        BY       *
130 REM  *VAUGHN SOFTWARE  *
140 REM  *                 *
150 REM  * EXTENDED BASIC  *
160 REM  *                 *
170 REM  *With this sub-    *
180 REM  *routine in your   *
190 REM  *program you can   *
200 REM  *pick out values   *
210 REM  *from a previous   *
220 REM  *program that is   *
230 REM  *no longer in the  *
240 REM  *computer. It      *
250 REM  *will allow you    *
260 REM  *to link your      *
270 REM  *programs in end-  *
280 REM  *less chains!      *
290 REM  *There is no       *
300 REM  *limit on program  *
310 REM  *length!!!         *
320 REM  ******************
330 REM DO NOT CLEAR THE SCREEN BEFORE RUNNING THIS SUB ROUTINE!
340 FOR A=1 TO 24 :: CALL GCHAR(A,4,SK):: IF SK<>32 THEN R=A :: A=25 ! This line
 finds where your data starts on the screen.
350 REM The line above assumes your data always is left justified in column #4.
360 NEXT A
370 FOR P=R TO R+4 :: CALL GCHAR(P,4,SK):: IF SK>45 AND SK<58 THEN GOSUB 420 ELS
E GOSUB 450 ! Sorts string values from numeric values.
380 REM Don't mix numbers and letters in your data.
390 NEXT P
400 CALL SOUND(1,900,0):: PRINT VALUE(1):VALUE(2):STRING$(1):STRING$(2)!Prints t
he values from the old program.
410 GOTO 410 !This line should GOTO the main program.
420 FOR C=4 TO 32 :: CALL GCHAR(P,C,SK):: CALL HCHAR(P,C,30):: IF SK=32 THEN C=3
3 ELSE V$=V$&CHR$(SK)! Picks out digits in numeric data.
430 NEXT C
440 COUNT=COUNT+1 :: VALUE(COUNT)=VAL(V$):: V$="" :: RETURN ! Assigns the data f
ound to VALUE(COUNT).
450 FOR C=4 TO 32 :: CALL GCHAR(P,C,SK):: CALL HCHAR(P,C,30):: IF SK=32 THEN C=3
3 ELSE V$=V$&CHR$(SK)! Picks out string characters.
460 NEXT C
470 COUNT2=COUNT2+1 :: STRING$(COUNT2)=V$ :: V$="" :: RETURN ! Assigns the strin
g found to STRING$(COUNT2).
```

KRUG'S ADVENTURE KINGDOM

What do you folks think of the new name? Krug has been very busy this past month playing adventure games and talking adventure gaming with some folks up in the S.F. Bay Area. Now that the INFOCOM adventure games have hit the T.I. market the adventure craze has boomed and there is a resurgence of interest in the Scott Adams adventure games.

Even though the Scott Adams (S.A.) games are no where near as sophisticated as the INFOCOM games, they offer great amounts of fun for very litle cost. I hope that this wave of 'Adventure Fever' grows and continues down the state and floods the Central Valley. To help this condition grow, next month this column will deal specifically with the S.A. games, where to get them , how to play them, how to win without going crazy, and where to get help!!

As i mentioned before, the INFOCOM games are showing up in force all around the state and a few of us die-hards are playing them here in the valley. If interest in INFOCOMs (and S.A.) continues to grow, I mat try to start an Advnture Sub-Group that would meet seperately from our main Users Group meetins (if anyone shows up to our regular meetings that is) and probably meet up here in Fresno. If you are interested in such a group or want to get together just t see what an INFOCOM adventure game looks and plays like give me a call on the Adventure Line (it's been pretty quiet lately) @ 432-1359.

KRUG'S CORNER

Krug found a pretty neat program in COMPUTE!'s FIRST BOOK OF TI GAMES that generates a word seach puzzle with user-input words. ae thought it would be fu to make a few of these puzzles up using characters and items found during his adventures. This first puzzle deals with Scott Adams games only (future puzzles will have INFOCOM and third party characters).

He included the word list for this puzzle, but in the future he may make it tougher by only giving clues to the words! ALSO, for a bonus prize on this first puzzle... A FREE ADVENTURE GAME will be given away to the first person to send me (or call me with) the correct word Placements AND tell me what game each item in the list came from (They're all in S.A. games, I promise!). This contest is also open to any other User Group member that we trade newsletters with, so you valley folks had better get on the ball soon.

Have Fun and I hope to see you all in Hanford!!!

>>Ron Taylor<<

```
Y W T N Q B G B D E G D R A G O N G T H
W R P J F Z B L M R R S O L Q T S S F R
E N B H B O C B A E R G A M M W R B W C
L O K U M V L F T S I U M F E F O D P R
T S L P X V J S H V S B C A E X T C G L
V Q S E Q O Y S C A E E T E M N C A A C
I R T L   O B O F B K E S U K Q E M W O
O H X R L P C P J Y T J X T H R J X E X
Y K X L A O A N N A S W H A A F O V E K
G Q Q P N M D I R N I P O T D L R Z M F
P B E U A W P I N T J R E S X X G G R M
E Z T E U R P O   T F N E   G B V P R N
T S L J O V R S L Y C A O E V J C M I A
E S V Z E C K O A I T H M V C I M V M I
G K H G X X S N T W N S E I T G U T P D
L E U S W C R E N U L E U S I R R J M N
I A E Y C W O D C R B F W D T G L V E V
G F G L W E S O O G N O M E K A U Z K I
L B S F O Z P U I L W O O A F V D M S L
M L J E K A T S H D Z M Q Y U Y Y K H D
```

1. PARROT
2. PIRATE
3. MONGOOSE
4. RUM
5. LIVE STATUE
6. STAKE
7. OLE PAINT
8. SAFE
9. PROJECTOR
10. OYSTER
11. CHEST
12. DUSTY IDOL
13. COCONUTS
14. DRAGON
15. TRAMPOLINE
16. GLASSES
17. INDIAN
18. SWEAT
19. GAUGE
20. *SCORE*

TIPS FROM THE TIGERCUB No. 14

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

Tigercub Software, 156 Collingwood Ave., Columbus OHIO 43213, has over 130 original programs available at only $3.00 each. My catalog is available for $1.00 which may be deducted from your first order.

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

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

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

```
100 !THIS ROUTINE INITIALIZE
S THE GEMINI 10X TO PRINT 'C
HINESE' UNTIL IT IS TURNED O
FF - by Jim Peterson
110 OPEN #1:"PIO"
120 PRINT #1:CHR$(27);CHR$(4
2);CHR$(0);:: CALL CLEAR
130 FOR CH=65 TO 90 :: PRINT
 "WORKING..." :: FOR J=1 TO
7 :: FOR L=1 TO 9 :: RANDOMI
ZE :: IF (INT(3*RND+1)<3)+((
L>1)*(D(J,L-1)>0))THEN 150
140 D(J,L),D(J,10-L)=(1+ABS(
J>1))^J
150 NEXT L
160 NEXT J
170 FOR L=1 TO 9 :: FOR J=1
TO 7 :: X(L)=X(L)+D(J,L):: N
EXT J :: NEXT L
180 PRINT #1:CHR$(27);CHR$(4
2);CHR$(1);CHR$(CH);CHR$(1);
CHR$(X(1));CHR$(X(2));CHR$(X
(3));CHR$(X(4));CHR$(X(5));C
HR$(X(6));CHR$(X(7));CHR$(X(
8));CHR$(X(9))
190 FOR J=1 TO 7 :: FOR L=1
TO 9 :: D(J,L)=0 :: NEXT L :
: NEXT J
200 FOR L=1 TO 9 :: X(L)=0 :
: NEXT L :: NEXT CH
210 PRINT #1:CHR$(27);CHR$(3
6);CHR$(1);
220 PRINT #1:CHR$(27);CHR$(8
7);CHR$(1)
230 PRINT #1:CHR$(27);CHR$(7
1)
240 STOP
```

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

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

```
100 CALL CLEAR
110 PRINT TAB(7);"NUMBER SPE
AKER": : :"by Jim Peterson":
"      of Tigercub Software"
: : :
120 PRINT " This program wil
l print any":" number of les
s than 67":"digits in number
s and in"
130 PRINT "words, and will s
peak the":"words.": : : :" R
equires Terminal Emulator":"
II and Speech Synthesizer.":
 : :
140 CALL CHAR(39,"0000000000
301020")
150 OPEN #1:"SPEECH",OUTPUT
160 DIM HIGH$(21),NN$(23)
170 DATA ONE,TWO,THREE,FOUR,
FIVE,SIX,SEVEN,EIGHT,NINE
180 DATA TEN,ELEVEN,TWELVE,T
HIRTEEN,FOURTEEN,FIFTEEN,SIX
TEEN,SEVENTEEN,EIGHTEEN,NINE
TEEN
190 DATA TWENTY,THIRTY,FORTY
,FIFTY,SIXTY,SEVENTY,EIGHTY,
NINETY
200 DATA THOUSAND,MILLION,BI
LLION,TRILLION,QUADRILLION,Q
UINTILLION,SEXTILLION,SEPTIL
LION,OCTILLION,NONILLION
210 DATA DECILLION,UNDECILLI
ON,DUODECILLION,TREDECILLION
,QUATTUORDECILLION,QUINDECIL
LION,SEXTEDECILLION
220 DATA SEPTENDECILLION,OCT
ODECILLION,NOVEMDECILLION,VI
GINTILLION
230 FOR J=1 TO 9
240 READ ONE$(J)
250 NEXT J
260 FOR J=1 TO 10
270 READ TEEN$(J)
280 NEXT J
290 FOR J=1 TO 8
300 READ TEN$(J)
310 NEXT J
320 FOR J=1 TO 21
330 READ HIGH$(J)
340 NEXT J
350 PRINT : : :
360 PRINT #1:"NUMBER"
370 INPUT "NUMBER? ":N$
380 L=LEN(N$)
390 FOR J=1 TO L
400 IF POS("0123456789",SEG$
(N$,J,1),1)=0 THEN 360
410 NEXT J
420 IF (VAL(N$)<1)+(VAL(N$)<
>INT(VAL(N$)))THEN 360
430 IF L<67 THEN 470
440 PRINT "HEY! I CAN ONLY C
OUNT TO A":"VIGINTILLION!":
:
450 PRINT #1:"HAY I CAN ONLY
 COUNT TO A VIGINTILLION"
460 GOTO 360
470 IF VAL(N$)>0 THEN 510
480 PRINT : :"ZERO": :
490 PRINT #1:"ZERO"
500 GOTO 360
510 IF L/3=INT(L/3)THEN 540
520 N$="0"&N$
530 GOTO 380
540 X=L/3
550 FOR J=1 TO L STEP 3
560 JJ=JJ+1
570 NN$(JJ)=SEG$(N$,J,3)
```

```
580 IF J>1 THEN 610
590 P$=STR$(VAL(NN$(JJ)))
600 GOTO 620
610 P$=P$&"'"&NN$(JJ)
620 NEXT J
630 PRINT : : :P$: : :
640 FOR J=1 TO X
650 GOSUB 670
660 GOTO 1150
670 IF VAL(NN$(J))<>0 THEN 7
10
680 A$=""
690 FLAG=1
700 GOTO 1140
710 FLAG=0
720 H=VAL(SEG$(NN$(J),1,1))
730 T=VAL(SEG$(NN$(J),2,2))
740 TT=VAL(SEG$(NN$(J),2,1))
-1
750 VV=VAL(SEG$(NN$(J),3,1))
760 IF T=0 THEN 1000
770 IF T>9 THEN 810
780 A$=ONE$(T)
790 SP$=A$
800 GOTO 1000
810 IF T>19 THEN 880
820 A$=TEEN$(T-9)
830 IF T<>19 THEN 860
840 SP$="NINE TEEN"
850 GOTO 1000
860 SP$=A$
870 GOTO 1000
880 IF VV<>0 THEN 950
890 A$=TEN$(TT)
900 IF TT<>8 THEN 930
910 SP$="NINE TEE"
920 GOTO 1000
930 SP$=A$
940 GOTO 1000
950 A$=TEN$(TT)&"-"&ONE$(VV)
960 IF TT<>8 THEN 990
970 SP$="NINE TEE"&ONE$(VV)
980 GOTO 1000
990 SP$=A$
1000 IF H=0 THEN 1080
1010 IF T=0 THEN 1050
1020 A$=ONE$(H)&" HUNDRED &
"&A$
1030 SP$=ONE$(H)&" HUNDRED &
"&SP$
1040 GOTO 1140
1050 A$=ONE$(H)&" HUNDRED"
1060 SP$=A$
1070 GOTO 1140
1080 IF (J<X)+(T=0)+(VAL(N$)
<100)THEN 1140
1090 A$=" & "&A$
1100 IF (TT<>8)*(T<>19)THEN
1130
1110 SP$=" & "&SP$
1120 GOTO 1140
1130 SP$=A$
1140 RETURN
1150 PRINT A$
1160 IF FLAG=1 THEN 1200
1170 PRINT #1:SP$
1180 PRINT HIGH$(X-J)
1190 PRINT #1:HIGH$(X-J)
1200 GOSUB 670
1210 NEXT J
1220 PRINT B$
1230 A$=""
1240 JJ=0
1250 B$=""
1260 P$=""
1270 FOR D=1 TO 500
1280 NEXT D
1290 GOTO 350
```

I hope you noticed that all those zeros were neatly slashed so that you wouldn't mistake them for O's. Here's a little routine that will set up your printer to slash the 0's until you turn it off.

```
100 OPEN #1:"PIO"
110 PRINT #1:CHR$(27);CHR$(4
2);CHR$(0);
120 PRINT #1:CHR$(27);CHR$(4
2);CHR$(1);CHR$(48);CHR$(0);
CHR$(92);CHR$(34);CHR$(81);C
HR$(8);CHR$(69);CHR$(2);CHR$
(65);CHR$(34);CHR$(28)
130 PRINT #1:CHR$(27);CHR$(3
6);CHR$(1)
140 STOP
```

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

```
100 REM - BELL MUSIC program
med by Jim Peterson
110 CALL CLEAR :: CALL SCREE
N(5):: RANDOMIZE
120 FOR CH=96 TO 136 STEP 4
:: FOR L=1 TO 4 :: X$=SEG$("
0018243C425A667E8199A5BDC3DB
E7FF",INT(16*RND+1)*2-1,2)::
 B$=B$&X$ :: C$=X$&C$ :: NEX
T L
130 D$=B$&C$ :: Z$=RPT$(D$,4
)
140 CALL CHAR(CH,Z$):: B$,C$
,Z$=NUL$ :: CALL MAGNIFY(4):
: CALL SPRITE(#CH/4-23,CH,IN
T(15*RND+2),255,255):: NEXT
CH
142 FOR J=1 TO 10 STEP 2 ::
X=9*RND-9*RND :: Y=9*RND-9*R
ND :: CALL MOTION(#J,X,Y,#J+
1,X,Y):: NEXT J
150 FOR J=1 TO 20
155 CALL COLOR(#INT(10*RND+1
),INT(15*RND+2))
160 FOR V=0 TO 16 STEP 4
170 ON J GOSUB 250,270,290,3
10,330,350,370,390,410,430,4
10,390,370,350,330,310,290,2
70,250,270,290,310,330,350
180 NEXT V
190 READ X
200 FOR D=1 TO X*5
210 NEXT D
220 NEXT J
230 RESTORE
240 GOTO 150
250 CALL SOUND(-999,131,V,52
3,V,131/2,30,-4,V)
260 RETURN
270 CALL SOUND(-999,165,V,16
7,V)
280 RETURN
290 CALL SOUND(-999,196,V,19
9,V)
300 RETURN
310 CALL SOUND(-999,262,V,26
5,V)
320 RETURN
330 CALL SOUND(-999,330,V,33
3,V)
340 RETURN
350 CALL SOUND(-999,392,V,39
4,V)
360 RETURN
370 CALL SOUND(-999,523,V,39
2,V,330,V)
380 RETURN
390 CALL SOUND(-999,659,V,66
6,V)
400 RETURN
410 CALL SOUND(-999,784,V,79
2,V)
420 RETURN
430 CALL SOUND(-999,1047,V,1
057,V)
440 RETURN
450 DATA 16,16,2,16,8,16,4,4
,16,2,16,4,16,8,8,16,2,2,16,
4,2,8,16
```

Just about MEMORY FULL, so
Happy hackin'

Jim Peterson

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