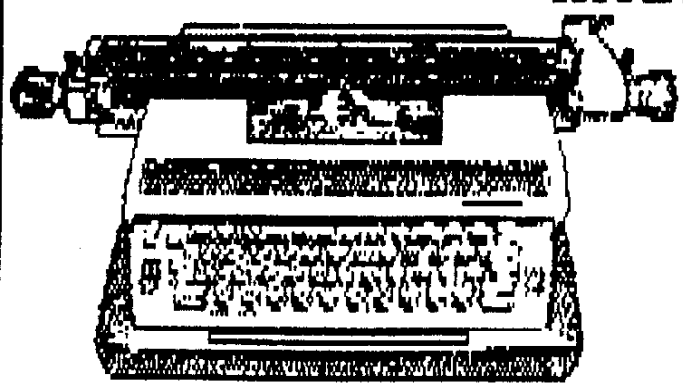
KAWARTHA KRONICLE



The monthly Newsletter of
The KAWARTHA 99'ers

P.O. Box 373
Peterborough, Ontario
Canada K9J 6Z3

Vol. 7 No. 1

AU REVOIR, MIKE

We don't have anything in the English language that says goodbye for now, but we look forward to seeing you again. Au revoir, Mike. Hasta la vista. Sunnu da aiki.

Mike is off to the land of the horizontal snow. Kincardine is on the east shore of Lake Huron. The wind blows from the NW. Need I say more! Mike is still a member of our club. He is driving us to the Ottawa TI Faire in his motor home. He is not gone forever. Still, he will be missed. Good luck, Mike.

Realestate is MUCH cheaper in Kincardine than it is here in Peterborough. Mike has a huge house in a nice subdivision. It has an indoor pool and a sauna. I managed to get a picture of Mike's house. I have printed it in this newsletter. It's incredible what you can buy in Kincardine!

I made the mistake of saying, at one of our meetings, that I was the oldest member of the club. What I MEANT was that I was one of the founding members---the only one who hasn't left the club. Probably, fifty years from now, everyone will have forgotten my comment!

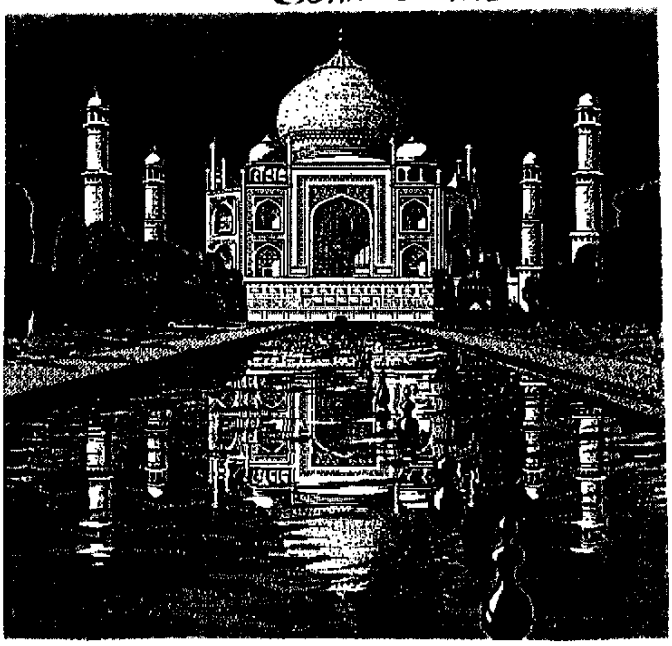
When I was president of our club, I used to sweat over the President's Remarks each month. How did I let myself be talked into THIS job???

I am not a "hacker". I am not a hardware genius. I guess I'm the average club member---a manipulator of software. I used to do some elementary programming. I think I'd like to get back into that again. In February, I visited with a friend up north.

I was surprised to find that Richard had bought a TI system with a PE box. I began working with his seven-year-old daughter, Melissa. We started with a repeat program that printed her name and that of her brother on the screen over and over. Then we made the computer count by ones to infinity. Next we counted by tens...and so on. Melissa was writing stories on the computer, just using BASIC. They don't have a printer yet, so she couldn't get a hard copy.

The point of all of this is that many of our members have kids. We have TI Writer in our library. Give it a try, parents. Not only is it fun for the kids, but they learn something too. As editor, I will put in some easy programming. I have decided to call it SQUARE ONE. Try it. Get your kids to try it. It's fun!!!

JOHN BAAL ... ED.



KAWARTHA 99ers USER GROUP

FOR USERS OF THE TEXAS INSTRUMENT 99/4A HOME COMPUTER

P.O. BOX 373
PETERBOROUGH, ONT.
CANADA K9J 6Z3

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PRESIDENT	LINDSAY BROWN	705 932 5295
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TREASURER	KAREN WILSON	705 742 3087
DISK LIBRARIAN	GLEN DANIELS	705 742-9869
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MODULES LIBRARIAN	JACK ARMSTRONG	705 742 8745
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NEWSLETTER EDITOR	JOHN BAAL	705 745 1438
ASSOCIATE EDITOR	DORIS WEATHERALL	705 745 5090
GROUP MARKETING	PHIL TOWNSEND	705 745 3757

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Meetings are held on the first Wednesday of every month at the Queen Alexandra Community Centre. Meetings begin at 7:00 p.m.

Membership fees are collected on an annual basis of $18.00 per annum (individual) or a portion thereof at the rate of $1.50 per month for the balance of the year. Family memberships are available for $24.00 per annum or pro-rated at a rate of $2.00 per month for the balance of the year. The group's annual meeting is held on the first Wednesday in March at which elections for the group's executive is held. Memberships can only be held in an adult's name.

The opinions expressed in this newsletter are those of the authors and not necessarily of the KAWARTHA 99ers USER GROUP.

Advertisements and contributing articles for this newsletter may be given to the newsletter editor or mailed to the group's P.O. box.

The KAWARTHA 99ers would like to thank those groups who exchange information and newsletters regarding the TEXAS INSTRUMENT HOME COMPUTER with us. We endeavour to recognize and credit original authors and sources of articles of information which we reprint or make available to our membership.

The KAWARTHA 99ers USER GROUP are a non-profit group who welcome any individuals who have an interest in the TEXAS INSTRUMENT HOME COMPUTER.

THE NEWS

by Phil Townsend

DUNN for NOW!

by Phil Townsend

As has been mentioned elsewhere in this issue, March of each year is a time of change for the KAWARTHA 99'ERS. Mike Dunn, who has served as our club's newsletter editor and good friend is being transferred. Although being directly removed from the TI hub of activity here in beautiful downtown Peterborough he will now face the challenge of keeping the "ORPHAN" healthy in uptown Kincardine. The long, dark, cold winters should help in this regard, EH, Mike!

We, of course still expect Mike to keep us posted as to his TI activities and computer related frustratiions. Right, Mike!

Other changes in our group this month involve a new member to our throng. Peter Humphrey and his wife, Ruth purchased their first TI orphan for a Christmas gift for their children. Soon, after its arrival complete with software, Peter discovered that this little bundle of joy was far more powerful and useful than the "Nintendo" type activities that the kids love (Peter is included in this category). Since "Dad" has discovered the powerful wordpro, database and financial capabilities of his machine his TI has been working overtime. We all welcome you to our "Orphanage" and are here to help you in anyway we can. Congratulations on such a fine purchase!

March is our group's birthday and we celebrated in fine style at the annual meeting on March 1, 1989. We are 7 years old! A cake appeared, mainly for Mike's departure. Bob Boone of "Computer Download" fame and five members of the OSHTI user group arrived to help us celebrate. We almost convinced them that their group's membership fees could be collected by our treasurer. Guy Lafontaine ,the OSHTI treasurer decided that perhaps that wasn't such a good ides. Anyway we enjoyed having you with us and hope to meet again soon.

For those in other parts of the world who may not be aware, Bob is the "local" lifeline for TI/Geneve hardware and software. Bob only had to drive 250 kilometres through snowstorms and white-outs to get to us. After the meeting he had to drive back again so he could get to work for 8:00 am (he then worked a 24 hour shift). Talk about someone dedicated to helping "Orphan" owners! Thanks for your support Bob. You are surely a good friend to all of us.

I only wish that our few missing members could have been with us. We missed them!

Results of the 7th annual general election are as follows: President - Lindsay Brown, Vice President - Glen Daniels, Treasurer - Karen Wilson. Many thanks to all of those who had their name stand for election.

The incoming newsletter editor is John Baal (the "oldest" member of the group). John is the only one of the original founding fathers of our group to still be an active member. Does this mean that we can call you "Dad"? Once we get John dusted off I know he will do a tremendous job on the newsletter, eh. His research skills need a little work though. If you check the picture on the front page you will notice that John got the photograph of Mike's new house confused with a recent picture of George Bush's new place! Actually, John's sister-in-law is an editor for the local paper so the executive will be sending copies of his articles to her for critiquing. Better not let those participles dangle, eh!

NOW THE NEW NEWS

The Ottawa User's group TI Faire is to take place on Saturday, April the 29th. The KAWARTHA COACH will be leaving Peterborough on the Friday evening (early) and all Kawartha 99'ers are welcome to be aboard. Your transportation cost, if you decide to join us will be an equal share of the gas bill. If you wish to make your own travel arrangements that's okay also. The KAWARTHA COACH is an "adults only" affair.

Our group is hoping to host a table, if the cost is not too prohibitive, during the Faire. Rodger Merritt has asked our group to represent him and handle his software in this part of the country. Hopefully we will have some of his new and exciting products to take to Ottawa along with a few goodies of our own to offer other TI'ers.

A CHALLENGE!...a contest of sorts for TI User Groups who are NOT in Ontario, Canada. In one of our past newsletters we gave a hint where the KAWARTHA 99'ers' name came from. To make things easy, the answer can be found on the first page of one of our newsletters from the past two years (volumes 5 and 6). Along with the explanation please include the volume and number of the newsletter in which you found the answer. To the first User Group librarian who sends us the correct answer we will send a FREE disk full of useful, enjoyable and hopefully bug-free programs for their group's library. Please indicate whether you desire single sided or double sided format.

Send your entry to the mailing address on our newsletter's masthead. In case of a tie we will send each of the winners a disk. The winner (if any club bothers to respond!) will be announced in this column.

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VIEWS AND REVIEWS

FORM SHOP... A REVIEW

by Phil Townsend

TI Writer with WSYIWYG (what you see is what you get) line graphic capability. Now isn't that what you could use occassionally when some project, form or sign has to be created? That is exactly what FORM SHOP is. Rodger Merritt of California has added this new program to the TI arsenal of print capabilities.

FORM SHOP comes complete on a SS/SD disk along with a four page manual. There are also several prepared sample files and a keyboard diagram file on the disk. This is an unprotected program so make your backup copy and put the original away safely (Rodger said so!).

If you are familiar with TI Writer or its clones then you won't have any trouble utilizing this program in either of its two modes. The edit mode is called, "CREATE A FORM" and the formatting mode is called, "PRINT A FORM".

What this has that you need is the character set made up of single and double lines, vertical and horizontal and all of the necessary right angle corners, T intersections and a wide block. With these shapes you can create any number of diagrams. The printout of the TI keyboard accompanying this article was created using FORM PRINT and is found on the disk. You access this character set by pressing <Control U>, this toggles the specialized characters on or off. By pressing the keys indicated the appropriate shapes appear on the screen.

You have all of the editing capabilities normally found in TI Writer (when word wrap is turned off). In fact when the editing mode comes up the editor is in "fixed" mode, that is word wrap is turned off. You must have word wrap turned off otherwise should you reformat your work nasty things happen to your drawing and you must either start again or go crazy trying to repair the damage.

Once your creation is completed and you are sure that you have a line feed <u>at the end of every line</u>, you are ready for printing. First though, you must save the work to disk as in TI Writer so that you can go to the formatter for your print out. It is at this stage of the program that I have the greatest criticism about the program in its stand alone form. When you quit the edit mode you are thrown out of the program to the TI title screen and have to reboot the program! Come on Rodger, Give us a break!

I must mention at this juncture though that you can easily modnt FORM SHOP onto FunnelWeb, TI Writer or any other clone and then this problem disappears. The Writer clone used on FORM SHOP has some features built in that you lose when you transfer the program over to FunnelWeb , however the gains far outweigh what you give up.

What about the print-out you say? Just about everyone is covered as far as the print routines go. Rodger has supplied the codes necessary to drive Epson compatible, Star Micronix and compatibles as well as IBM (uggh!) compatible printers. If your printer can do all of these, as some can, you have a gold mine! The print-out was quick and clean.

PRINTER HINT:

I had a small spacing show up in verticle lines on my Roland PR-1215 printer when I used the standard Epson compatible print file (SETUPALL). I went into the file using the Editor mode and adjusted the number of lines per inch to 22/216". The transliterate code line I added to the "SETUPALL" file was .(period) TL 123:27,51,22 . Don't include that last period. Now save the file back to the program disk with the original name.

Whenever you begin a new form have as your first line:

```
.{   (this is Function F and shouldn't
      print out, it sends the code to
      the rinter for 22/216" line feed)
.IF DSK1.SETUPALL
```

END OF HINT... back to the review...

I personally found this program easy to use, especially since I installed it on FunnelWeb 4.13. This product sells for $18.00 in Canadian funds ($2.50 S/H to Canadian addresses).

REQUIREMENTS

-console and XBasic
-32K memory or greater
-1 SS/SD drive capability or greater
-RS232 card (TI tested)
-printer
-worked well using an Axiom parallel interface

REPORT CARD

Ease of use.....A
Print-out.....A
Documentation.....B
On screen graphic.....A++
User usefulness.....A
Canadian cost.....A

ps... The KAWARTHA 99ers have just become an area distributor for Comprodine products. If you are interested in obtaining this or any of their other software products please contact us at the mailing address on our masthead.

GETTING THE MOST FROM YOUR CASSETTE SYSTEM
BY MICKEY SCHMITT
NUMBER 9
UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES
PART I

Understanding cassette error codes and messages is not quite as difficult as it may seem. Unfortunately, trying to find a list of the error codes and messages that deal specifically with the cassette recorder has been a difficult task! In doing my research for this particular article, I have had to combine many different sources of information - In order to be as informative and as complete as possible.

Basically, cassette error codes and messages can occur during one of two different types of commands. More specifically, I am referring to the "LOADING" (OLD CS1) procedure and the "SAVING" (SAVE CS1) procedure.

This month I will be examining the error codes and messages that can occur during the "LOADING" (OLD CS1) procedure.

When the computer finishes loading the data, it tells you whether or not it read the data properly. If the data were read correctly, you would see the following message appear on your monitor or tv screen:

* DATA OK
* PRESS CASSETTE STOP CS1
  THEN PRESS ENTER

If, however, the computer did not successfully read your program into memory, an error occurs and the computer prints one of the following error messages:

* ERROR - NO DATA FOUND
  PRESS R TO READ CS1
  PRESS C TO CHECK
  PRESS E TO EXIT

* ERROR DETECTED IN DATA
  PRESS R TO READ CS1
  PRESS C TO CHECK
  PRESS E TO EXIT

When this occurs - You have a choice of using one of the following three options: Note, however, that the single-letter responses (R - C - E) that you type in at this time must be in upper-case characters!

1. Press R to repeat the reading procedure. However, before repeating this procedure, check to make sure that you have put the cassette tape in correctly - That it is the correct cassette tape and that it has been placed in the cassette recorder with the correct side facing up. Then follow the directions as they appear on your monitor or tv screen.
2. Press C to check the data you have read into memory. At this point you may wish to adjust your cassette recorder's volume control and tone setting. Then follow the directions as they appear on your monitor or tv screen.
3. Press E to exit from the loading procedure. At this time another error message is displayed, indicating that the computer did not properly read your program into memory:

   * WARNING:
     CHECK PROGRAM IN MEMORY
   * I/O ERROR 56

IF I/O ERROR 56 appears, something definitely went wrong. But DON'T PANIC! Generally speaking, when the error message "ERROR - NO DATA FOUND" occurs - The computer did not recognize the cassette recorder at all during the "OLD CS1" routine. On the other hand - When the error message "ERROR DETECTED IN DATA" occurs - The computer recognized only part of the data that the cassette recorder was sending to the computer. When this happens, recheck your cassette recorder's volume control and tone setting. Then recheck your cassette cable. Make sure that both ends of the cable are attached to the computer and to the cassette recorder. While you are at it - Make sure that the color-coded wires leading to the cassette recorder are connected correctly. The cassette recorder will not operate properly if the color-coded wires are reversed!

Next month I will continue with the topic of understanding cassette error codes and messages. More specifically, I will be examining the error codes and messages that can occur during the "SAVING" (SAVE CS1) procedure.

****

"CONSOLE-ING THE ORPHAN"

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NOTE: This article is a reprint from the Pomona Valley User Group newsletter Jan. 1989 (with thanks) - Ed.

THE VIRUS IN A TI???

by J. Peter Hodie

(Courtesy Boston Computer Society TI-99 User Group)

Recently, there has been quite a bit of talk in the media about computer viruses. I have generally taken these accounts with large grains of salt. I would not write on it except I received a 2-page letter from the front office encouraging the accurate flow of information about viruses. For the uninitiated, a virus is a program that somehow manages to infect your computer system and cause some sort of damage or unexpected happening either immediately or at some later time. Some viruses simply display a message on a particular date and then disappear. Others may destroy an entire hard disk of data. Around a year ago, there was a discussion on viruses on the TI. In the Newsletter of the Boston Computer Society, Walt Howe described a virus that would slowly turn your screen black as you worked, starting out as a black speck at first and then growing. At the time I did not give such an attack any serious consideration. However, recently I came to the conclusion that such a virus on the 99/4A or 9640 is improbable at best. Such a virus would rely on a bitmap screen, otherwise it would pretty much have to wipe out one character at a time. Furthermore, there is so little extra memory available to grab in a 99/4A that such a virus would literally find no place to hide when a program such as TI-Writer was running (which I believe was the example given). Such a virus could be created on a machine such as a Macintosh or an Amiga but not a 99/4A. This does not mean that a virus could not appear on a 99/4A, merely that it is very improbable.

For a virus to be effective it must come in the guise of a useful program. When you run this program it either installs the virus into another program (often the operating system) or checks some internal counter to see if it is time to go into effect. The 99/4A has no operating system for the virus to attach itself to, and the 9640 operating system has not yet been understood well enough by programmers capable of creating a virus to be vulnerable to such an attack. Secondly, in order to maintain some sort of counter of the number of times a program has been run, the virus would have to write data back out to the disk where the program is stored. On the 99/4A or the 9640, this action is very likely to be noticed by the user. On many machines, disk accesses are not indicated by flashing lights or loud noises, particularly machines that use the smaller 3.5" disks. Another way to activate a virus is based on the date that is stored in the system clock. The 99/4A has no standard clock, so this technique is out of the question. The 9640 does have a clock, but so far very few applications have made use of it.

Another characteristic of a virus is that it will propagate itself on to other disks and into other applications. On a machine that is dependent on a DOS this is fairly simple. These machines tend to have a reserved area of the disk which always contains a small part of the DOS used in booting up the system. The virus can attach itself to this area and can control the system virtually from start up. In systems such as Macintosh, where any file can actually contain hundreds of sub-files hidden from the user, it is not all that complicated to bury code in a user document and then have the code run when the document is selected for use. However, on the 99/4A there is no "boot area" on the disk and there is pretty much no way to hide auto-executing code in a TI-Writer document, or other data file. All this is to say that it would be extremely difficult to have the virus propagate itself on a 99/4A or 9640 system.

Writing an effective virus is a tricky task, as you may have noticed from some of the above discussion. On a computer where the standard application is 100K of code, hiding 30K of code to implement a virus may be a pretty simple task. On a 99/4A (or even a 9640) where the standard application size is closer to 16K it is nearly impossible to find enough room in memory to store both a useful application to hide the virus in, as well as room for the virus itself.

The point of all of this discussion is to convince you that a virus attack on your system is far from likely. Now that you are relaxed, here comes the other half. It is a really simple matter to write a program that when run will attempt to initialize all your floppy, RAM and hard disks. We're talking about 30 minutes work. Thus you should exercise some caution. The most likely source of viral software (what a term...) is from BBS's. (Most of the files on our BBS have been tested and should cause no problems. Ed.) However, beware of programs that sound too good to be true. If you run a program that proceeds to start doing strange things, STOP THE THING! Turn off the power. When first running software from a BBS it is a good idea not to keep any unrecoverable files on line. If you find a file that you believe is a virus of some sort, immediately let other people know so that they can avoid any unpleasant surprises.

In summary, we don't have as much a worry about as many other computer users, but that is no reason not to be a bit careful.

J.P.H.

VP-NOTES BY Glen Daniels

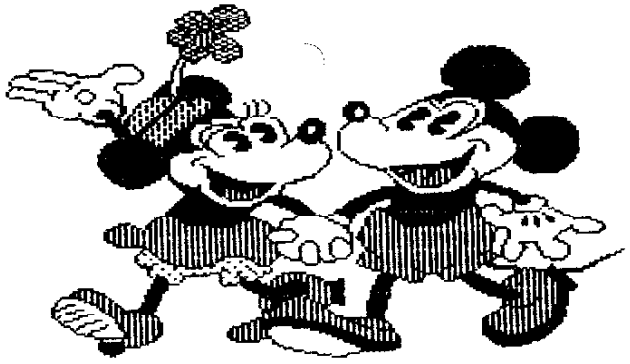
March 1st. was a great night for the Kawartha 99'ers. In the election of officers there were no great changes except for losing our news letter editor (sorry to see you go Mike) to the Kincardine 99'ers. We did gain Doris Weatherall and John Baal as co-editors. Best of luck to them both of you.

Also at the March meeting, we welcomed back Bob Boone from North Bay with some of his TI goodies. By the smile on his face sales must have been brisk!

March was also DUES night for the next year, so if you didn't pay up to Karen at the meeting send your cheque to Karen Wilson, 396 Towerhill Rd, RR#1, Peterborough Ont. K9J 6X2 so that your membership remains current and so you will continue receive the Kawartha Kronicle each month!!

I understand the Ottawa TI Faire is to be held April 28, 1989 and I have it on pretty good authority that Mike is going to chauffeur the "KAWARTHA COACH" to Ottawa again this year. If you are interested in going to Ottawa in the "COACH" it will be leaving Friday April 28th (after school). Weplan to stay at the Talisman Motor Inn which isquite close to Merrivale High School, where the TI Fest is to be held. You can reach the hotel by calling 1-800-267-4166. Be sure to tell them you are attending the TI Faire because they have a block of rooms for the rowdy bunch. The rooms are $68.00 + tax for double occupancy. See You there eh! (for Mike).

Taken from the OSHTI News Letter: there is to be a Ham Radio/Computer Flea Market at the Pickering High School on Saturday April 8th from 9 am till 2 pm.



Admission is $4.00 per person. The Oshawa Group hope to have a table there to advertize that the TI99/4A is alive and stronger than ever. The Oshawa group hope to sell some TI related items and they have invited our members to forward any TI bits and pieces that we may wish to part with, there would be a small handling charge. If interested contact me for further information.

Disks are still arriving in the group mailbox at a rate you would not believe! I will have an updated list of new disks at the next meeting. Be sure to look it over and see if anything interests you. The group has a new tape called Saturday Night Bingo for the library so try it out!

I guess that is all my ramblings for this time, see you all at the next meeting I hope?

Happy Computing,

Glen.

(Ed. note: Glen has put in dozens of hours in cataloging the group disk library. Jack Armstrong has done likewise in organising the tape library. Many thanks, gentleman!)

BUG KILLER by Bob Tisdale

If you feel that an "infection" may creep into your unprotected XBASIC programs try the program listed on the next page. Load your program from cassette or tape. Next after listing the program (use LIST "DSK1.PGM NAME_T" or LIST "CS1.PGM NAME_T"). Now load and run BUG OUT. A value will be printed for each line of the program. Save the print out to be comparison at a later date. (be sure to have your printer on before you begin this activity.)

If at some time you expect a virus is in your program then re LIST the program as described above. If there is a problem the print outs will show you where the discrepancy lies.

This program was originally found in Home Computer Magazine, V5 N5 Pg.78. Have fun.

****

"LIBRARY CORNER"

****

```
100 REM ***********
110 REM * BUG-OUT *
120 REM ***********
130 REM
140 REM
150 REM
160 REM
170 REM VERSION 5.5.1
180 REM TI EXTENDED BASIC ONLY
190 SP$=CHR$(32):: CR$=CHR$(13)
200 DISPLAY AT(2,5)ERASE ALL:"HCM BUG-OUT PROGRAM"
210 DISPLAY AT(4,1):"YOU MUST ""LIST"" THE PROGRAM TO DISK." :: DISPLAY AT(6,1):
"THEN RUN ""BUG-OUT"""
220 DISPLAY AT(8,1):"FILE NAME: DSK1." :: ACCEPT AT(8,12)SIZE(-15):FL$
230 ON ERROR 520
240 OPEN #2:FL$,INPUT ,DISPLAY ,VARIABLE 80
250 DISPLAY AT(10,1):"SEND OUTPUT TO: 1. SCREEN" :: DISPLAY AT(11,17):"2. PRINTE
R"
260 DISPLAY AT(12,1):"1" :: ACCEPT AT(12,1)VALIDATE("12")SIZE(-1):DV :: DV=DV-1
270 IF DV=0 THEN 310
280 ON ERROR 530
290 DISPLAY AT(13,1):"PRINTER:" :: DISPLAY AT(14,1):"RS232" :: ACCEPT AT(14,1)SI
ZE(-28):DV$
300 OPEN #1:DV$,OUTPUT
310 ON ERROR STOP
320 IF EOF(2)THEN 500
330 LINPUT #2:C$
340 IF C$="" THEN 320
350 N=POS(C$,SP$,1):: OT$=SEG$(C$,1,N):: LNNUM=VAL(OT$):: IF LEN(C$)<80 THEN 400
360 FLAG=1 :: IF EOF(2)THEN FLAG=0 :: GOTO 400 ELSE LINPUT #2:D$
370 M=POS(D$,SP$,1):: IF M>5 THEN 390
380 ON ERROR 540 :: LN=VAL(SEG$(D$,1,M)):: IF LN>LNNUM THEN 400
390 C$=C$&D$ :: FLAG=0
400 CK$=C$ :: M1=POS(C$," REM ",N):: M2=POS(C$," ! ",N):: IF M1<1 AND M2<1 THEN
450
410 IF M1=N THEN CK$=SEG$(C$,1,N+4):: GOTO 450
420 IF M2=N THEN CK$=SEG$(C$,1,N+2):: GOTO 450
430 IF M1>N THEN CK$=SEG$(C$,1,POS(C$,":: REM ",1)+4):: GOTO 450
440 IF M2>N THEN CK$=SEG$(C$,1,POS(C$,":: ! ",1)+2)
450 CK=0 :: CK1=0 :: FOR I=1 TO LEN(CK$):: CHK=ASC(SEG$(CK$,I,1)):: CK1=CK1+CHK
:: IF I/2=INT(I/2)THEN CK=CK-CHK ELSE CK=CK+CHK
460 NEXT I
470 CK=ABS(CK)*CK1 :: I=INT(CK/26):: CK=CK-I*26
480 OT$=OT$&SP$&CHR$(65+CK)
490 PRINT #DV:OT$ :: IF FLAG=0 THEN C$="" :: GOTO 320 ELSE C$=D$ :: FLAG=0 :: GO
TO 350
500 CLOSE #2 :: PRINT "ALL DONE" :: IF DV=1 THEN CLOSE #1
510 END
520 DISPLAY AT(10,1)BEEP:"FILE NOT FOUND" :: GOSUB 550 :: GOTO 200
530 DISPLAY AT(14,1):"PRINTER NOT RECOGNIZED" :: GOSUB 550 :: RETURN 280
540 CALL ERR(EN,ET,ES,EL):: IF EN=74 THEN RETURN 390 ELSE PRINT "ERROR NUMBER: "
;EN:"IN LINE ";EL :: STOP
550 FOR DE=1 TO 500 :: NEXT DE :: RETURN
```