CLEVELAND AREA
TI-99/4A
USER GROUPS

--> OCTOBER <-- 1994

OFFICE	TI-CHIPS		MEETINGS
CO-PRESIDENT	Glenn Bernasek	238-6335	10-12:00 A.M.
CO-PRESIDENT	Virgil Thomason	1264-7779	N. Royalton
TREASURER	Lin Shaw	235-3912	County Library
MEMBERSHIP	John Parken	331-2830	State Rd. So. of
	4172 W. 217th St.		Route 82 1/4mi
	Fairview Pk., OH 44126		EVERY THIRD SAT.
SECRETARY	(Harry "" Temporary) for Chris		
DISK LIBRARY	Lee Kee	238-6938	OCT 15,1994
TAPE & MODS	John Parken	331-2830	NOV 19,1994
HARD COPY	Harry Hoffman	631-2354	DEC 17,1994

OFFICE	NORTHCOAST 99'ers		MEETINGS
CO-PRESIDENT	Ken Gladyszewski	1357-7274	1-4 P.M.
CO-PRESIDENT	Walt Ryder	921-8223	Euclidian Room
Treasurer	Frank Jenkins	283-8526	Euclid Sq. Mall
MEMBERSHIP	Martin Smoley	1-257-1661	E.260th off I-90
	6149 Bryson		(South)
	Mentor, OH 44060		EVERY THIRD SAT.
SECRETARY	Deanna Sheridan	333-5986	
DISK LIBRARY	Martin Smoley	1-257-1661	OCT 15,1994
TAPE & MODS	Frank Jenkins	283-8526	NOV 19,1994
HARD COPY	Dick Alden	1-352-9172	DEC 17,1994

≡From the Editor's Desk:≡

Hi TIers,

Harry is back for a month and Deanna will do November & December's NL. It will give Harry some time to catch up on his graphics that Deanna gave him! There will be plenty of TI-Artist & Page Pro pics to put in our Libraries! Also, it will, hopefully, give Harry time to clean up his computer room & get the Geneve up to par!!

This month's MICROpendium has many fine programs and chit-chat about the TI community! Cecure (Don Walden) Electronics has also picked up the CC-40 business. This is a so called pocket computer that is TI-99 compatible, in that you can port your notes and Basic programs over to the TI from the CC-40. From what I understand, the only difference between the service Don gives you & TI is that with Don you must contact him for prices & Pay up front or go COD. He says he has enough parts from TI to last at least 5 years!

I hope the members will start coming forward with some questions, birthdays, tidbits of info, or anything you want to talk about that might be of interest to the groups! You will be surprised to know that other members are just like you and are hesitant to contact others about anything!!! I've been there myself! If you wish, your name will not be mentioned! This newsletter HAS to start being FOR the members and not just what the editor wants! Otherwise, we cannot function as a family group. We can set up a CHIT-CHAT column and whatever question anyone has will be answered by someone who has worked out that problem or knows where to solve it! We all want to know how other members are getting along and wish to hear news as soon as it comes up! If you know someone is ill, has an Anniversary coming, or anything of interest, let us know!

In the MICROpendium was an article about the TI-Reunion that the Dallas group is having. Deanna will bring this up at this coming meeting. If you'd like to see old friends or past TI'ers you have just heard about, support this plan! It should prove to be great fun!

I don't remember if this ID# was in Deanna's article or not, but here is Dr. Charles Good's ID# to contact him via freenet:

cgood@lima.ohio-state.edu
This is quicker than snail-mail and easier to send!

TI'll next TIme,
Harry

Co-President, Ken Gladysewski opened the meeting @ 1:30 P.M., Sept. 17, 1994. Deanna is on vacation & Frank is working, so Walt Ryder read the Treasurer's report. As of today we are very solvent! Marty read the membership report. We have 49 members, with 2 being honorary members. Under New Business, Harry brought up news of Fest West and the table rates & motel rates. He also quoted from the West Penn newsletter stating that of several of the best NL's, Cleveland was one. Way to go team! Jim Harris brought up that Cecure (Don Walden) is now official TI-99/4A repair person. The MICROpendium carries an Ad stating the price list. Walt wondered if anyone kept a history of things like Corcomp or any other TI related companies. Bill Gaskill has written a History of the TI-99 & related equipment. Also, Bruce said Mr. Wright wrote a TI Encyclopedia listing all the modules & programs in alphabetical order. Ken announced a Ham Fest at the Berea Fairgrounds on Sunday, Sept. 18th

Time for the demo by Walt Ryder. Walt started off by explaining his objectives;
   1. To link assembly language (A/L) subroutines to Basic & Xbasic to enhance the speed of these programs.
   2. Identify the statements to use in linking them.
   3. Show examples of running a linked program.

Walt then proceeded to show examples using a Basic program to count to the screen from 1 to 100. Very slow! He then demo'd how to link his A/L subroutine to this and improved the execution greatly! Walt went on to show improvement in Xbasic and the use of the MiniMem module. He also showed that you could pass parameters back & forth from Basic to Assembly, etc. Walt's figures for running #'s 1 to 1000 on the screen were: Basic - 3 min. 7 sec., Xbasic - 1 min. 39 sec. Basic-A/L - 54 secs. Xbasic-A/L - 54 sec. This demo was terrific and generated LOTS of comments and questions!!!
   Another plus of this demo was Walt's explanation of (Call Init), (Call Link) & some of the A/L command language. Thank you, Walt! Looking forward to more of this kind of Demo!

After this demo, Ken closed the meeting and everyone either left or adjourned to Ron Markus' table to buy some needed hardware or software! One member bought a whole system!
   I didn't catch what demo was being shown next month! SORRY!
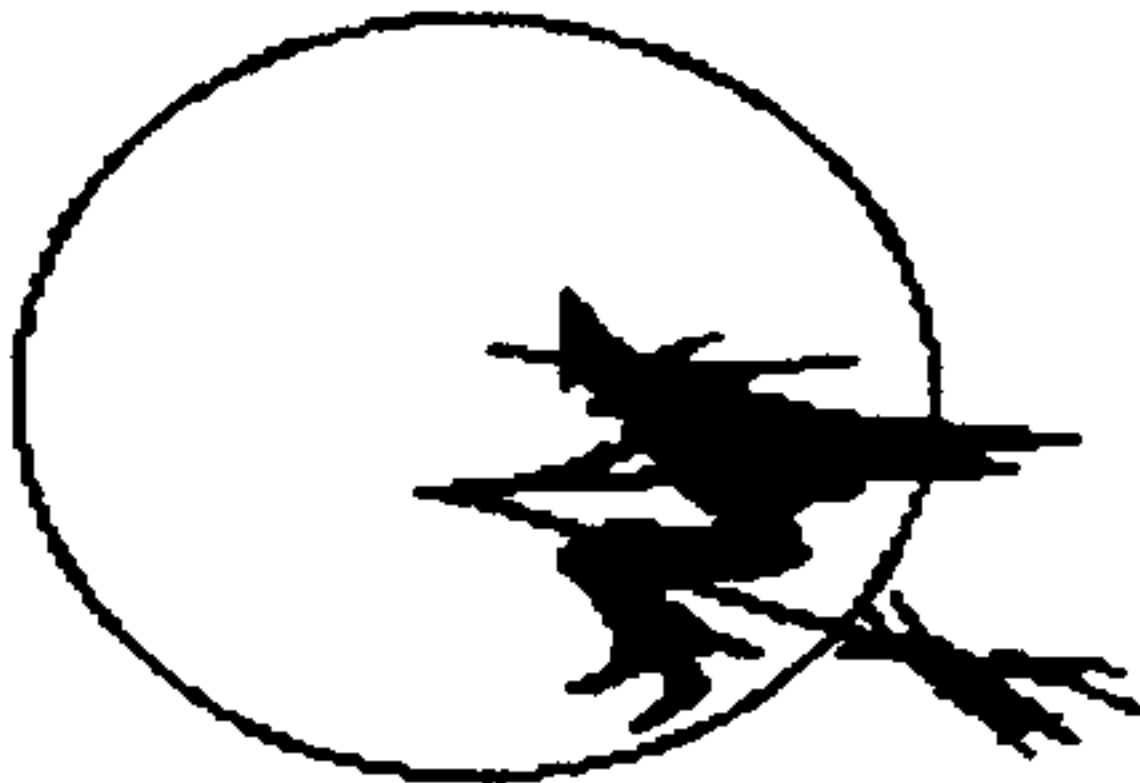
North Coast 99'ers wish all kids, big & small, a HAPPY & SAFE HALLOWEEN HOLIDAY !!!

The Sept. 17th meeting was opened by Glenn Bermasek at 10:00 A.M. Lin & Carol Shaw were not present, so the Treasurers Report was put on hold. John Parten gave the Membership & Tape/Module Library report. We have 22 paid members & some that haven't paid their dues yet. Jack Koryta brought in the enhanced Lima tapes, one of which could not be enhanced because it was copied over an old tape that was too scratchy to work on without taking a LOT of time (one screen at a time!). The other two are in great shape! Les Kee then gave his Disk Library report. The new disk catalog is in the Newsletter. We're still waiting for someone else to take a disk from the library for demonstration purposes. Get a free disk from Les and run it at home, write down how to load it, run it and what it does. Then come in and show Chips what this program does and what you would use it for. Glenn said there are over 4000+ programs in the library now and there should be no problem finding something of interest for everyone! It is easy!!!

Glenn announced that Deanna Sheridan would bring her laptop computer and demo how to communicate between the TI-99/4A & the IBM using PC-Transfer and a null modem. She may, if time allows, show a bit about the TI Emulator! Glenn showed us a printout of a report he wrote for work that he transferred to his TI and edited with FunnelWeb 5.01. It was a 339 sector file that he was able to put in 700+ line segments in TI-Writer format, using PC-Transfer to put on a TI disk.

Harry received a letter about Fest West '95, to be held in San Diego on Feb 18th, 1995. The motel rates were included and the special rates will be in effect for 4 days for those that want to see the sights! Special table rates are available for user groups that wish to set up & sell equipment or programs. Harry spoke about the newsletter and how there is not enough input from the members. The newsletter can't be informative for the membership if there is no news ABOUT what members WANT, NEED, or even what they are DOING or have DONE with their machines! This input would benefit us ALL! If anyone wants to talk about ANYTHING, give Harry a note and we will start a CHIT-CHAT column. Hey, if any member wants something to contribute to the clubs, become a reporter and give Harry a report every month on any subject.

We then talked about having a reunion (as the Dallas Group is doing!), in conjunction with North Coast. Deanna wrote about it in the Sept. newsletter. We will have to co-ordinate with NCoast and send cards, etc. John Parten has a complete list (on Disk) of all members that have ever belonged to CHIPS! How about that!! It was brought up by Ada that many of the old members may like to know about members that have passed. This will be tabled until we can talk to Deanna at this coming meeting.

Cecure Electronics now is the authorized official TI-99 repair company. Don Walden has an ad in the MICROpendium listing the prices of repairs to Consoles, PEBoxes, & other related TI-99 parts.

Ada brought up the fact that Ron has started selling internationally. He got some orders from overseas! Ron says it is due mainly because of Charles Good's excellent reviews in MICROpendium & thanks him very much! Glenn said that there are not enough vendors that are as honest and reputable as RON and we need that kind of service. Ron says that Chris is not able to come to meetings because he has to work on the meeting Saturdays, so we will have to put up with a tape recorder as secretary until we can get a temporary replacement! How about it SOMEBODY!!!

Virgil Thomason announced that Dinny Stockdales wife had passed away two weeks ago. He sent a letter to Harry so it would be put in the last NLetter, but Harry never received it! Please let Dinny know of your feelings and prayers.

Send cards to:
Dinsmore Stockdale
4400 Melrose Dr. Box 34
Wooster, OH 44691

Curt Gadd put on a demo on DBCard File. This database program is a very simple one to use and is very powerful in use. Curt recommends making a backup of your database, but you cannot use Rapid Copy, you can use DM 1000 for this purpose. The Title screen shows a 3 drawer file cabinet & a menu. To get around on this screen, use the FCTN & arrow keys, then ENTER to go where you want. You can make up each file drawer into a separate data base with records of what you want; addresses, data, etc. You can print all of the drawer or selected parts. A very good demo!

Les Kee then gave a demo'd a program called Cad Master v.1.9 which has been in our library for some time. It was written by John Miller of Anaheim, Calif. This is a drawing program which allows you to scale your drawings and is set to 1"= 1 foot. Unfortunately, there is no print function and the circle portion leaves a little to be desired. John has promised updates but we do not know if he has done so. Les gave a thorough run through of this program. Maybe he will try to contact John Miller about an update! Thanks again Les for a great demo!

We then had our 50/50 drawing and Curt Gadd won. Congradulations Curt!!! With that over, the meeting was adjourned to Ron's table to check on what he had and some left for home! All in all a great meeting!

October

DEANNA & HARRY'S GRAPHIC PROJECT

Deanna Sheridan bought a CD with a large BUNCH of pictures in IBM format! We really don't know the exact amount of pics involved. There are a few duplicates and a few unusable ones! Deanna, using three different computers, converted all to MAC format. This made it easier for Harry to convert them to TI-Art and then to PagePro pics! So far, there are about 100 pics changed to formats I can use. On this page are a few that were taken from some of the 70 disks Deanna gave me!!! All 43 Halloween pics will not be in this newsletter, but at least they are on a disk labeled for 'HALLOWEEN'!

Some graphics in Mac format are too large for TIA' but could be O.K. for Page Pro. The header is 2 pics copied VERY carefully with Peter Hoddie's 'Macflix Pro' A very good program to buy, if you can get it from Ron! The bottom 'Cornstalk' is 3 pics that are off a little, but passable,[find it!] After converting the TI-Artist pics to PPRO, I had to figure out what line and column to start each picture, so they match up O.K. That w lot of fun!!! Here are a couple more trick/treaters:

Here again it took two pics to make ONE graphic. It was too big for TI-ARTIST!
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TRICK OR TREAT!

Have a Safe Halloween!!

PROGRAM OF THE MONTH

by Bob August

The program this month was written for Frank to use in his Motor home. I don't know if we published it before or not, but it has been revised several times so there are new features.

The program lists the mileage by date with the amount of gas you bought, where you bought it and how much it cost. You can enter two entries each day. The program will give you a recap on the screen or printer. You now can edit any record or delete the last record entered. You can also page back or forward through each day.

I am sorry the program is so long, but it is necessary for what it does.

the program is written in Extended Basic.

Hope you enjoy.

```
100 ! TRIP-RECORD
110 ! IN TI EXTENDED BASIC
120 ! BY R.W. AUGUST
130 ! VERSION 5.0
140 GOTO 160 :: CT1$,CT2$,D$
,DA$,DAY$,YN$ :: AVE,C,C1,C2
,EM,G,G1,G2,I,K,SM,M,N,T,TC,
TG,TM :: CALL CLEAR :: CALL
KEY
150 DIM DATE$(40):: DIM P(10
):: !@P-
160 DISPLAY AT(12,6)ERASE AL
L:"<<< LOADING >>>" :: ON ER
ROR 9000
170 OPEN #1:"DSK1.START" ::
INPUT #1:SM :: CLOSE #1
180 K,N,T=0 :: ON ERROR 190
:: GOSUB 8000
```

```
190 DISPLAY AT(2,6)ERASE ALL
:"<< TRIP RECORD >>": : : :"
  PRESS:": :TAB(5);"1) Displ
ay records": :TAB(5);"2) Ent
er new data"
200 DISPLAY AT(12,5):"3) Edi
t records": :TAB(5);"4) Prin
t records": :TAB(5);"5) Save
 records"
210 DISPLAY AT(18,5):"6) Tot
als to date": :TAB(5);"7) Qu
it": :TAB(8);"Your choice [1
-7]"
220 CALL KEY(0,K,T):: IF T=0
 OR K<49 OR K>55 THEN 220 ::
 CALL CLEAR :: ON K-48 GOSUB
 1000,2000,3000,4000,5000,60
00,7000
230 GOTO 190
1000 ! Display records
1010 DISPLAY AT(1,2):"<< DIS
PLAY DATA SECTION >>" :: K,T
=0
1020 DISPLAY AT(12,3):"ENTER
 DATE TO DISPLAY" :: ACCEPT
AT(14,3):D$
1030 FOR I=1 TO N :: IF D$=S
EG$(DATE$(I),1,LEN(D$))THEN
1060
1040 NEXT I
1050 DISPLAY AT(16,3):"FILE
NOT FOUND" :: FOR T=1 TO 750
 :: NEXT T :: RETURN
1060 FOR K=1 TO 10 :: T=POS(
DATE$(I),"\",T+1):: P(K)=T :
: NEXT K
1070 DISPLAY AT(12,1):" ": :
" ": :" " :: DISPLAY AT(4,1)
:"Date = ";SEG$(DATE$(I),1,P
(1)-1):: T=0
1080 DISPLAY AT(6,1):"Day  =
 ";SEG$(DATE$(I),P(1)+1,P(2)
-P(1)-1):: DISPLAY AT(8,1):"
Start mileage  = ";SEG$(DATE
$(I),P(2)+1,P(3)-P(2)-1)
1090 DISPLAY AT(10,1):"Endin
g mileage = ";SEG$(DATE$(I),
P(3)+1,P(4)-P(3)-1):: DISPLA
Y AT(12,1):"Fill up #1:"
1100 DISPLAY AT(13,1):"Gals
= ";SEG$(DATE$(I),P(4)+1,P(5
)-P(4)-1):: DISPLAY AT(14,1)
:"Cost = $";SEG$(DATE$(I),P(
5)+1,P(6)-P(5)-1)
1110 DISPLAY AT(15,1):"City
```

```
= ";SEG$(DATE$(I),P(6)+1,P(7
)-P(6)-1):: DISPLAY AT(17,1)
:"Fill up #2:"
1120 DISPLAY AT(18,1):"Gals
= ";SEG$(DATE$(I),P(7)+1,P(8
)-P(7)-1):: DISPLAY AT(19,1)
:"Cost = $";SEG$(DATE$(I),P(
8)+1,P(9)-P(8)-1)
1130 DISPLAY AT(20,1):"City
= ";SEG$(DATE$(I),P(9)+1,P(1
0)-P(9)-1)
1140 DISPLAY AT(22,1):"Miles
 per gallon = ";SEG$(DATE$(I
),P(10)+1,LEN(DATE$(I))):: D
ISPLAY AT(24,1):"  <B>ack
<N>ext    <Q>uit"
1150 CALL KEY(0,K,T):: IF T=
0 THEN 1150 :: IF K=66 OR K=
98 THEN I=I-1 :: IF I=0 THEN
 RETURN ELSE 1060
1160 IF K=78 OR K=110 THEN I
=I+1 :: IF I>N THEN RETURN E
LSE 1060
1170 IF K<>81 AND K<>113 THE
N 1150 :: RETURN
2000 ! Enter new data
2010 DISPLAY AT(2,3):"<< DAT
A ENTRY SECTION >>" :: DISPL
AY AT(4,1):"Enter Q to quit"
 :: AVE,G,M=0
2020 DISPLAY AT(6,1):"Enter
date: ";DA$: :"Enter Day: ";
DAY$
2030 DISPLAY AT(10,1):"Endin
g mileage: ";STR$(EM): :"Ent
er fill up #1":"Gals: ";STR$
(G1):"Cost: $";STR$(C1):"Cit
y: ";CT1$
2040 DISPLAY AT(17,1):"Enter
 fill up #2":"Gals: ";STR$(G
2):"Cost: $";STR$(C2):"City:
 ";CT2$
2050 ACCEPT AT(6,13)SIZE(-8)
:DA$ :: IF DA$="Q" OR DA$="q
" THEN DA$=" " :: RETURN
2060 ACCEPT AT(8,12)SIZE(-9)
:DAY$ :: ACCEPT AT(10,17)SIZ
E(-6):EM :: ACCEPT AT(13,7)S
IZE(-4):G1 :: ACCEPT AT(14,8
)SIZE(-6):C1
2070 ACCEPT AT(15,7)SIZE(-20
):CT1$ :: ACCEPT AT(18,7)SIZ
E(-4):G2 :: ACCEPT AT(19,8)S
IZE(-6):C2 :: ACCEPT AT(20,7
)SIZE(-20):CT2$
```

```
2080 G=G1+G2 :: M=EM-SM :: A
VE=INT(M/G0+.5)/100 :: DI
SPLAY AT(22,1):"Miles per ga
llon =";AVE
2090 DISPLAY AT(24,1):"IS TH
E ABOVE CORRECT? Y" :: ACCEP
T AT(24,23)SIZE(-1):YN$ :: I
F YN$="N" OR YN$="n" THEN 20
20 ELSE 2100
2100 N=N+1
2110 DATE$(N)=DA$&"\"&DAY$&"
\"&STR$(SM)&"\"&STR$(EM)&"\"
&STR$(G1)&"\"&STR$(C1)&"\"&C
T1$&"\"&STR$(G2)&"\"&STR$(C2
)&"\"&CT2$&"\"&STR$(AVE)
2120 SM=EM :: DA$,DAY$,CT1$,
CT2$=" " :: EM,G1,C1,G2,C2=0
 :: GOTO 2020
3000 ! EDIT SECTION
3010 DISPLAY AT(8,1):"PRESS:
": :TAB(3);"E to edit any en
try": :TAB(3);"D to delete l
ast entry"
3020 CALL KEY(0,K,T):: IF T=
0 THEN 3020
3030 IF K=69 OR K=101 THEN C
ALL CLEAR :: GOTO 3050
3040 IF K<>68 AND K<>100 THE
N 3020 :: N=N-1 :: RETURN
3050 DISPLAY AT(1,3):"<< EDI
T DATA SECTION >>" :: K,T=0
3060 DISPLAY AT(12,3):"ENTER
 DATE TO EDIT" :: ACCEPT AT(
14,3):D$
3070 FOR I=1 TO N :: IF D$=S
EG$(DATE$(I),1,LEN(D$))THEN
3100
3080 NEXT I
3090 DISPLAY AT(16,3):"FILE
NOT FOUND" :: FOR T=1 TO 750
 :: NEXT T :: RETURN
3100 FOR K=1 TO 10 :: T=POS(
DATE$(I),"\",T+1):: P(K)=T :
: NEXT K
3110 DISPLAY AT(12,1):" ": :
" ": :" " :: DISPLAY AT(4,1)
:"Date = ";SEG$(DATE$(I),1,P
(1)-1):: T=0
3120 DISPLAY AT(6,1):"Day  =
 ";SEG$(DATE$(I),P(1)+1,P(2)
-P(1)-1):: DISPLAY AT(8,1):"
Start mileage  = ";SEG$(DATE
$(I),P(2)+1,P(3)-P(2)-1)
3130 DISPLAY AT(10,1):"Endin
g mileage = ";SEG$(DATE$(I),
```

```
P(3)+1,P(4)-P(3)-1):: DISPLA
Y AT(12,1):"Fill up #1:"
3140 DISPLAY AT(13,1):"Gals
= ";SEG$(DATE$(I),P(4)+1,P(5
)-P(4)-1):: DISPLAY AT(14,1)
:"Cost = $";SEG$(DATE$(I),P(
5)+1,P(6)-P(5)-1)
3150 DISPLAY AT(15,1):"City
= ";SEG$(DATE$(I),P(6)+1,P(7
)-P(6)-1):: DISPLAY AT(17,1)
:"Fill up #2:"
3160 DISPLAY AT(18,1):"Gals
= ";SEG$(DATE$(I),P(7)+1,P(8
)-P(7)-1):: DISPLAY AT(19,1)
:"Cost = $";SEG$(DATE$(I),P(
8)+1,P(9)-P(8)-1)
3170 DISPLAY AT(20,1):"City
= ";SEG$(DATE$(I),P(9)+1,P(1
0)-P(9)-1)
3180 ACCEPT AT(4,8)SIZE(-8):
DA$ :: ACCEPT AT(6,8)SIZE(-9
):DAY$
3190 ACCEPT AT(8,18)SIZE(-6)
:SM :: ACCEPT AT(10,18)SIZE(
-6):EM :: ACCEPT AT(13,8)SIZ
E(-4):G1 :: ACCEPT AT(14,9)S
IZE(-6):C1
3200 ACCEPT AT(15,8)SIZE(-20
):CT1$ :: ACCEPT AT(18,8)SIZ
E(-4):G2 :: ACCEPT AT(19,9)S
IZE(-6):C2 :: ACCEPT AT(20,8
)SIZE(-20):CT2$
3210 G=G1+G2 :: M=EM-SM :: A
VE=INT(M/G0+.5)/100 :: DI
SPLAY AT(22,1):"Miles per ga
llon =";AVE
3220 DISPLAY AT(24,1):"IS TH
E ABOVE CORRECT? Y" :: ACCEP
T AT(24,23)SIZE(-1):YN$ :: I
F YN$="N" OR YN$="n" THEN 31
20 ELSE 3230
3230 DATE$(I)=DA$&"\"&DAY$&"
\"&STR$(SM)&"\"&STR$(EM)&"\"
&STR$(G1)&"\"&STR$(C1)&"\"&C
T1$&"\"&STR$(G2)&"\"&STR$(C2
)&"\"&CT2$&"\"&STR$(AVE)
3240 IF I=N THEN SM=EM
3250 DA$,DAY$,CT1$,CT2$=" "
:: EM,G1,C1,G2,C2=0 :: RETUR
N
4000 ! Print records
4010 DISPLAY AT(12,4):"<< PR
INTING RECORDS >>" :: AVE,C,
G,K,M,T,TC,TG,TM=0
4020 OPEN #3:"PIO",VARIABLE
132 :: PRINT #3:CHR$(15):" "
:TAB(56);"<<< RECORD OF TRIP
 >>>":" "
4030 PRINT #3:"Record";TAB(1
2);"Record";TAB(24);"Start";
TAB(33);"Ending";TAB(42);"Fi
ll up #1";TAB(82);"Fill up #
2:";TAB(122);"Miles"
4040 PRINT #3:"Date";TAB(12)
;"Day";TAB(24);"mileage";TAB
(33);"mileage";TAB(42);"Gals
";TAB(50);"Cost";TAB(59);"Ci
ty";
4050 PRINT #3:TAB(82);"Gals"
;TAB(90);"Cost";TAB(99);"Cit
y";TAB(122);"Per Gallon" ::
PRINT #3:RPT$("-",132)
4060 FOR I=1 TO N :: FOR K=1
 TO 10 :: T=POS(DATE$(I),"\"
,T+1):: P(K)=T :: NEXT K
4070 PRINT #3:SEG$(DATE$(I),
1,P(1)-1);TAB(12);SEG$(DATE$
(I),P(1)+1,P(2)-P(1)-1);
4080 PRINT #3:TAB(24);SEG$(D
ATE$(I),P(2)+1,P(3)-P(2)-1);
TAB(33);SEG$(DATE$(I),P(3)+1
,P(4)-P(3)-1);
4090 PRINT #3:TAB(42);SEG$(D
ATE$(I),P(4)+1,P(5)-P(4)-1);
TAB(50);SEG$(DATE$(I),P(5)+1
,P(6)-P(5)-1);
4100 PRINT #3:TAB(59);SEG$(D
ATE$(I),P(6)+1,P(7)-P(6)-1);
TAB(82);SEG$(DATE$(I),P(7)+1
,P(8)-P(7)-1);
4110 PRINT #3:TAB(90);SEG$(D
ATE$(I),P(8)+1,P(9)-P(8)-1);
TAB(99);SEG$(DATE$(I),P(9)+1
,P(10)-P(9)-1);
4120 PRINT #3:TAB(122);SEG$(
DATE$(I),P(10)+1,LEN(DATE$(I
))):: K,T=0
4130 G=VAL(SEG$(DATE$(I),P(4
)+1,P(5)-P(4)-1))+VAL(SEG$(D
ATE$(I),P(7)+1,P(8)-P(7)-1))
:: TG=TG+G
4140 C1=VAL(SEG$(DATE$(I),P(
5)+1,P(6)-P(5)-1)):: C2=VAL(
SEG$(DATE$(I),P(8)+1,P(9)-P(
8)-1)):: C=C1+C2 :: TC=TC+C
4150 M=VAL(SEG$(DATE$(I),P(3
)+1,P(4)-P(3)-1))-VAL(SEG$(D
ATE$(I),P(2)+1,P(3)-P(2)-1))
:: TM=TM+M :: NEXT I :: AVE=
INT(TM/TG0+.5)/100
```

```
4160 PRINT #3:RPT$("-",132):
: PRINT #3:"TOTAL MILEAGE ="
;TM:"TOTAL GALLONS =";TG:"MI
LES PER GALLON =";AVE:"TOTAL
 COST = $";STR$(TC)
4170 PRINT #3:RPT$("-",132):
: CLOSE #3 :: RETURN
5000 ! Save data
5010 OPEN #5:"DSK1.DATE",OUT
PUT,INTERNAL,FIXED 104 :: PR
INT #5:N
5020 FOR I=1 TO N :: PRINT #
5:DATE$(I):: NEXT I
5030 CLOSE #5 :: RETURN
6000 ! TOTALS TO DATE
6010 DISPLAY AT(5,5):"<< TOT
ALS TO DATE >>" :: AVE,C,G,K
,M,T,TC,TG,TM=0 :: DISPLAY A
T(10,1):"THINKING, PLEASE WA
IT "
6020 FOR I=1 TO N :: FOR K=1
 TO 10 :: T=POS(DATE$(I),"\"
,T+1):: P(K)=T :: NEXT K ::
K,T=0 :: DISPLAY AT(10,22):I
6030 G=VAL(SEG$(DATE$(I),P(4
)+1,P(5)-P(4)-1))+VAL(SEG$(D
ATE$(I),P(7)+1,P(8)-P(7)-1))
:: TG=TG+G
6040 C1=VAL(SEG$(DATE$(I),P(
5)+1,P(6)-P(5)-1)):: C2=VAL(
SEG$(DATE$(I),P(8)+1,P(9)-P(
8)-1)):: C=C1+C2 :: TC=TC+C
6050 M=VAL(SEG$(DATE$(I),P(3
)+1,P(4)-P(3)-1))-VAL(SEG$(D
ATE$(I),P(2)+1,P(3)-P(2)-1))
:: TM=TM+M :: NEXT I :: AVE=
INT(TM/TGO+.5)/100
6060 DISPLAY AT(10,1):"TOTAL
 MILEAGE =";TM: :"TOTAL GALL
ONS =";TG: :"MILES PER GALLO
N =";AVE: :"TOTAL COST = $";
STR$(TC)
6070 DISPLAY AT(20,1):"PRESS
 ANY KEY TO CONTINUE"
6080 CALL KEY(0,K,T):: IF T=
0 THEN 6080 :: RETURN
7000 ! Quit
7010 OPEN #4:"DSK1.START",OU
TPUT :: PRINT #4:SM :: CLOSE
 #4
7020 CALL CLEAR :: STOP
8000 ! Load data
8010 OPEN #2:"DSK1.DATE",INP
UT ,INTERNAL,FIXED 104 :: IN
PUT #2:N
```

```
8020 FOR I=1 TO N :: INPUT #
2:DATE$(I):: NEXT I
8030 CLOSE #2 :: RETURN 190
9000 ! First time only
9010 DISPLAY AT(12,1)ERASE A
LL:"Enter your starting mile
age": :"00000" :: ACCEPT AT(
14,1)SIZE(-5):SM
9020 !@P+
9030 RETURN 180 :: END
```
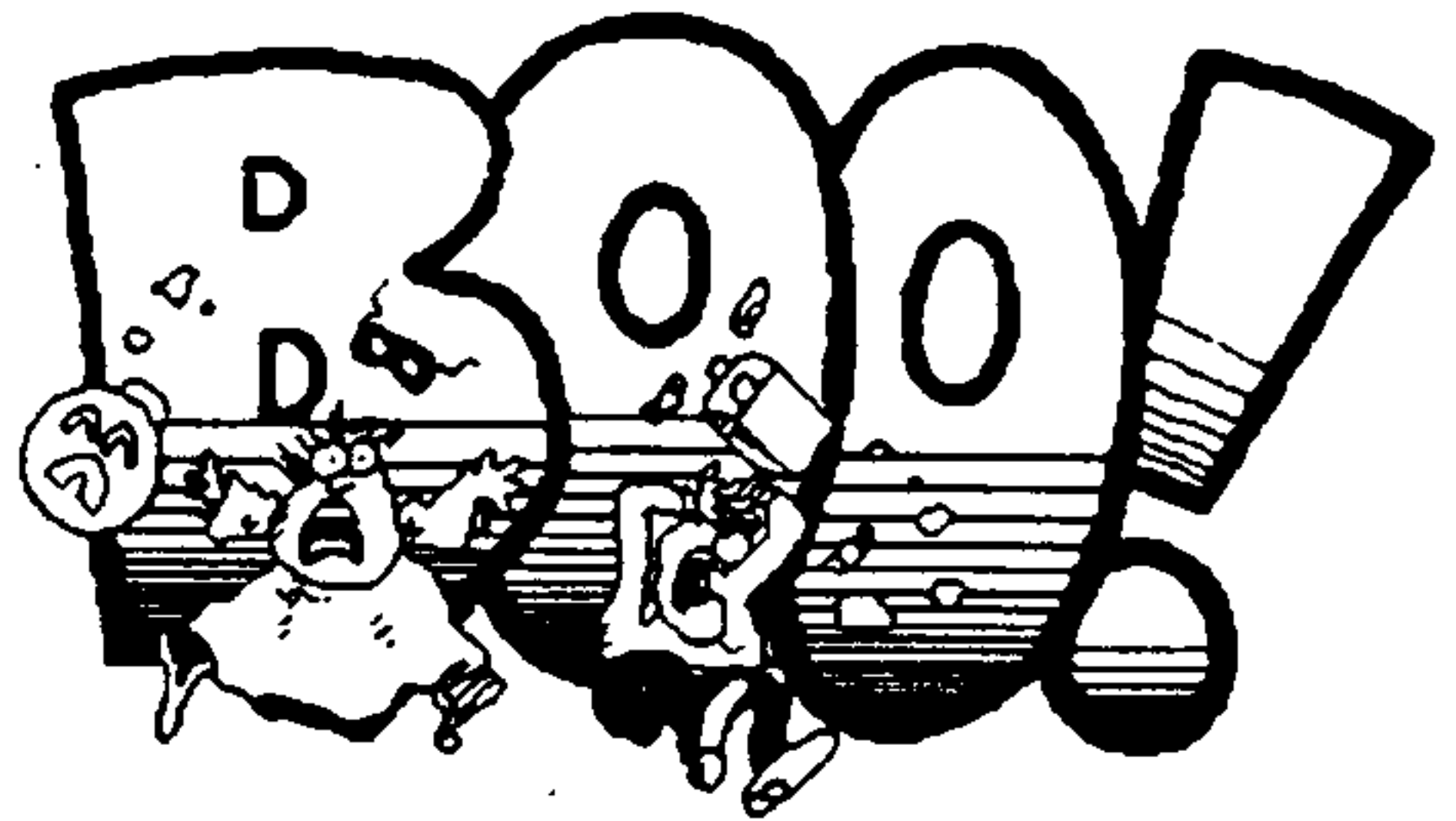
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