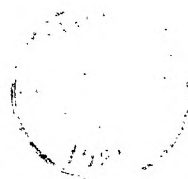


PUGET SOUND 99ERS
PO BOX 6073
LYNNWOOD, WA 99036



EDMONTON CANAD T5J-3

NOVEMBER 85

Vol. 4 No. 11

OFFICERS

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VICE PRESIDENT: CHUCK WYNNE 745-3249
TREASURER: RON STONE 481-1412
LIBRARIAN: JOHN UELAND 672-7593

NEXT MEETING

DATE: THURSDAY, November 21, 1985 TIME: 7:00 PM
PLACE: Shoreline Public Library, 345 NE 175th, Seattle

- AGENDA:
- * Demo of new freeware programs
 - * Basic/X-Basic programming hints
 - * Tips and news from Chuck
 - * Nomination of officers
 - * SIG group reports
 - * General discussion session

DECEMBER MEETING

DATE: WEDNESDAY, December 18, 1985
TIME: 7:00 PM
PLACE: Bellevue Public Library
11501 Main St., Bellevue

JANUARY MEETING

DATE: THURSDAY, January 23, 1986
TIME: 7:00 PM
PLACE: Shoreline Public Library
345 NE 175th, Seattle

OCTOBER MINUTES

by Ralph Devin

We started the last meeting a bit late, people were slow arriving, apparently due to the early arrival of darkness. We had a good turnout when everyone finally got there.

The main event of the evening was a demonstration of the freeware program PR-BASE. It is an assembly language database program with a lot of very good characteristics. We have the program available from our librarian for a nominal copying/disk cost charge. Remember, freeware authors would appreciate you paying them the fee they ask for. We should support these guys so that they will continue to produce the great programs we are getting.

We also ran three short programs that were just for fun.

- 1) Bert Ernie -- The Sesame Street characters talk to each other. A simple program, but it is apparent

someone knows more about speech than any of us do, because the voices sound just like the real thing.

2) Logo Lunch -- The little munchman eats all the computer logos but meets it's match with the TI logo.

3) Dripping Faucet -- Dripping faucet makes the grass grow. These programs demonstrate the variety of things we can do with our computer.

We tried to get some nominations from the floor for the upcoming election of officers, but had no response. What to do???? Support your club and make the election process work!

See you at the next meeting!!!

BULLETIN BOARD

We have modified the BBS system again, and it is now making use of the CorComp clock module. The system should give you the right date and time now. We also cleaned up some of the routines so the system should run smoother now. We haven't got the Xmodem protocol installed because Chris is having to spend time on school and the related activities and I am overloaded at work. Show us your support by calling and leaving a message.
Phone: 764-4142

ELECTION TIME

We tried to get some interest going at the last meeting for the election of officers, and got a big ZERO! Please enter into the election process and make our club work. This is really the only administrative activity that has to be accomplished each year. Being an officer is a lot of fun. Nominate yourself if you want to be on the board.

GREAT BUYS

At the last meeting we mentioned that there were several good deals at Price Savers, the discount membership warehouse. They have double-sided, double-density diskettes at 10 for \$7.25 and disk containers that hold 50 diskettes for \$5.88. Those of you with memberships can take advantage of these great prices. I went to Costco yesterday and they have a TMK 13-inch color TV for about \$190. It has a wireless remote and also has video/audio jacks for direct connection of you computer to the TV, eliminating the RF modulator. This is also a great buy for those of you that have membership. We can buy these things for those of you without membership if you arrange it with us at the meeting.

ANOTHER TYPER

There were several typewriter programs in the last newsletter and here is another one. This one came to us via the Houston Users Group, who got it from the St. Louis 99er. This is an X-Basic program that loads assembler code into memory and then executes. Just another example of another way to do things.

```

100 ! ELECTRONIC TYPEWRITER
110 ! BY ROY T. TAMASHIRO
120 ! TI XBASIC/MEM EXP/PRINTER
130 ! FCTN S moves cursor to left
140 ! FCTN D moves cursor to right
150 ! FCTN 3 deletes entire line of text
160 ! FCTN 2 insert space for additional character
170 ! FCTN 1 delete a single character
180 CALL INIT :: CALL LOAD(8196,63,248):: CALL LOAD(16376,84,89,80,69,32,32,48,190)
190 CALL LOAD(12288,0,0,0,1,48,36,255,0,255,0,255,0,255,0,255,0,255,0,255,0,255,0,49,148)
200 CALL LOAD(12312,255,0,255,0,255,0,255,0,2,48,13,0,80,32,32,32,32,32,32,32,32,32,32,32,32,32)
210 CALL LOAD(12336,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32)
220 CALL LOAD(12360,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32)
230 CALL LOAD(12384,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32,32)
240 CALL LOAD(12408,42,32,69,76,69,67,84,82,79,78,73,67,32,84,89,80,69,87,82,73,84,69,82,32)
250 CALL LOAD(12432,42,32,69,110,116,101,114,32,97,32,108,105,110,101,32,111,102,32,116,101,120,116,58,32)
260 CALL LOAD(12456,40,84,121,112,101,32,69,78,68,32,119,104,101,110,32,100,111,110,101,46,41,32,2,224)

```

```

270 CALL LOAD(12480,131,224,2,1,240,129,216,1,131,212,216,1,140,2,6,193,216,1,140,2,2,1,244,135)
280 CALL LOAD(12504,216,1,140,2,6,193,216,1,140,2,2,224,48,0,4,192,2,1,128,0,4,32,32,32)
290 CALL LOAD(12528,5,128,2,128,3,192,22,250,2,0,0,7,2,1,138,0,4,32,32,32,5,128,2,128)
300 CALL LOAD(12552,0,32,22,250,2,0,0,87,4,32,32,32,5,128,2,128,0,112,22,250,2,0,0,47)
310 CALL LOAD(12576,4,193,4,194,208,98,48,120,2,33,96,0,4,32,32,32,5,128,5,130,2,130,0,25)
320 CALL LOAD(12600,22,245,2,1,32,0,2,2,0,1,216,129,48,36,5,130,2,130,0,81,22,250,2,0)
330 CALL LOAD(12624,1,184,4,193,4,194,208,98,48,146,2,33,96,0,4,32,32,32,5,130,5,128,2,130)
340 CALL LOAD(12648,0,22,22,245,2,0,1,224,4,194,208,98,48,168,2,33,96,0,4,32,32,32,5,130)
350 CALL LOAD(12672,5,128,2,130,0,22,22,245,2,0,2,48,200,0,48,32,6,160,50,240,192,32,48,32)
360 CALL LOAD(12696,2,1,126,0,4,32,32,32,2,0,5,0,216,0,131,116,4,193,2,0,32,0,2,2)
370 CALL LOAD(12720,255,0,4,32,32,28,144,32,131,124,19,26,144,160,131,117,19,243,2,3,0,5,6,3)
380 CALL LOAD(12744,2,1,9,192,6,1,22,254,4,32,32,28,144,32,131,124,19,11,144,160,131,117,19,228)
390 CALL LOAD(12768,4,32,32,28,192,195,22,239,152,32,48,34,131,117,22,220,216,32,131,117,48,34,4,193)
400 CALL LOAD(12792,208,96,131,117,2,129,8,0,22,15,4,194,192,160,48,32,2,130,2,48,22,2,4,96)
410 CALL LOAD(12816,49,144,6,2,200,2,48,32,6,160,50,240,4,96,49,144,2,129,9,0,22,2,4,96)
420 CALL LOAD(12840,50,178,2,129,13,0,22,2,4,96,50,206,2,129,7,0,22,2,4,96,48,190,2,129)
430 CALL LOAD(12864,4,0,22,20,192,32,48,32,2,32,253,209,2,2,0,80,192,194,6,3,216,163,48,36)
440 CALL LOAD(12888,48,36,6,2,128,3,22,249,2,1,32,0,216,193,48,36,4,96,49,144,2,129,3,0)
450 CALL LOAD(12912,22,20,192,96,48,52,2,33,253,209,192,193,2,0,0,80,5,131,216,97,48,36,48,36)
460 CALL LOAD(12936,5,129,128,3,22,249,2,2,32,0,216,194,48,36,4,96,49,144,2,129,32,0,26,251)
470 CALL LOAD(12960,2,129,126,0,27,248,192,224,48,32,2,35,253,209,216,193,48,36,6,160,50,240,192,96)
480 CALL LOAD(12984,48,32,2,129,2,127,17,2,4,96,49,144,5,129,200,1,48,32,4,96,49,144,120,32)
490 CALL LOAD(13008,131,124,131,124,4,192,2,1,0,1,2,2,48,36,4,32,32,16,120,32,131,124,131,124)
500 CALL LOAD(13032,2,224,131,224,4,96,0,112,2,0,2,48,2,2,0,1,4,193,208,98,48,36,2,33)
520 OPEN #1:"PIO"
530 CALL LINK("TYPE",W$):: IF SEG$(W$,1,3)="END" THEN CLOSE #1 :: CALL PEEK(2,A, B):: CALL LOAD(-31804,A,B)
540 PRINT #1:W$ :: GOTO 530

```

ASCII CODES

This program also came to us via the Houston Users Group.

The following program will give the ASCII codes for any key depressed on the keyboard of your TI-99/4A. The only exception to this is the QUIT (FCTN =) and in order to help in debugging I have placed an exclamation point in line 100. This enables the CLEAR (FCTN 4). The ! acts as a REM and should be removed and the program SAVED before running.

There are things about these code numbers which have been going around for quite some time, but this program will give information that many, myself included, did not know. An example of this is that some keys when depressed will return a different ASCII code if BOTH CTRL and FCTN are pressed at the same time.

```

1 !SAVE DSK1.KEYBOARD
100 !ON BREAK NEXT
110 CALL SCREEN(11)
120 CALL CLEAR
130 PRINT "THIS PROGRAM RETURNS ASCII":"CODES FOR MOST OF THE KEYS":"ON THE KEYBOARD"
140 PRINT : : "EXAMPLE:" : "THE ENTER KEY IS PRESSED":"AND ASCII CODE 13 APPEARS"
150 PRINT : : "THIS ALSO GIVES CODES FOR":"FCTN CTRL CHARACTERS."
160 PRINT : : "SOME KEYS RETURN A DIFFERENT ASCII CODE WHEN FCTN CTRL ARE PRESSED AT THE SAME TIME"
170 PRINT : : "PRESS PROC'D TO BEGIN."
180 CALL KEY(0,K,S)
190 IF K=12 THEN 200 ELSE 180
200 CALL CLEAR
210 PRINT TAB(9);"PROGRAM BY:" :TAB(8);"BERNARD FALKIN"
220 PRINT : : : : : :
230 CALL KEY(0,K,S)
240 IF S<1 THEN 230

```

HAPPY THANKSGIVING

```

250 IF K<>32 THEN 230
260 PRINT "(SPACE BAR) 32"
270 GOTO 230
280 IF K=16 THEN 310
290 PRINT CHR$(K);K
300 GOTO 230
310 ON K GOSUB 330,350,370,390,
      410,430,450,470,490,510,530,
      550,570,590,610
320 GOTO 230
330 PRINT "(AID)";K
340 RETURN
350 PRINT "(CLEAR)";K
360 RETURN
370 PRINT "(DELETE)";K
380 RETURN
390 PRINT "(INSERT)";K
400 RETURN
410 PRINT "(NOTHING...)";K
420 RETURN
430 PRINT "(REDO)";K
440 RETURN
450 PRINT "(ERASE)";K
460 RETURN
470 PRINT "(S LEFT)";K
480 RETURN
490 PRINT "(D RIGHT)";K
500 RETURN
510 PRINT "(X DOWN)";K
520 RETURN
530 PRINT "(E UP)";K
540 RETURN
550 PRINT "(PROC'D)";K
560 RETURN
570 PRINT "ENTER";K
580 RETURN
590 PRINT "(BEGIN)";K
600 RETURN
610 PRINT "(BACK)";K
620 RETURN
630 END

```

FORTH MEETING - Tom Wynne

The FORTH meetings will be held at:
 Queen Anne Computer Shoppe
 (formerly Security Business Machines)
 6 1/2 BOSTON #4 (upstairs)
 Seattle, WA 98109

On the dates:

Saturday, November 23 at 6:00
 Saturday, December 7 at 6:00

We will start a new project for all of us to create a program such as a Data Base or something for all of us to use. If you have any suggestions or questions, please call me at:
 745-3249 - we need your support!

```

100 REM FINEPRINT PROGRAM BY TOM AND CHUCK WYNNE OF THE PUGET SOUND 99ERS
110 CALL CLEAR :: CALL SCREEN(3):: DIM G$(10):: DIM TYPE$(5):: YN$="YN" :: DSK$="
"12"
120 FOR I=1 TO 5 :: READ TYPE$(I):: NEXT I
130 DATA "DIS/FIX", "DIS/VAR", "INT/FIX", "INT/VAR", "PROG==="
140 DISPLAY AT(3,10)ERASE ALL:"LABELER BY": "TOM AND CHUCK WYNNE": "THE PUGET
SOUND 99ERS"
150 DISPLAY AT(12,2):"DISK 1, 2 OR C FOR CAT"
160 CALL KEY(0,M,S):: IF S=0 THEN 160
170 DN$=CHR$(M):: JJ$="12C" :: X=POS(JJ$,DN$,1):: IF X=0 THEN 160
180 ON X GOTO 190,190,290
190 OPEN #1:"DSK"&DN$&".", INPUT , RELATIVE, INTERNAL
200 OPEN #2:"PIO.LF"
210 PRINT #2:CHR$(15);CHR$(27);CHR$(83);CHR$(0);CHR$(27);"A";CHR$(5);
220 INPUT #1:N$,JJ,JJ,KK
230 PRINT #2:"AVAILABLE=";KK;" " ;N$;RPT$(" ",10-LEN(N$));" " ;
  USED=";JJ-KK;" " ;CHR$(10)
240 FOR J=1 TO 7
250 FOR I=1 TO 5 :: INPUT #1:P$,A,B,C :: G$(J)=G$(J)&P$&RPT$(" ",12-LEN(P$)):: N
EXT I
260 PRINT #2:G$(J);CHR$(10)
270 NEXT J
280 FOR J=1 TO 10 :: G$(J)=" " :: NEXT J :: CLOSE #1 :: CLOSE #2 :: GOTO 140
290 REM * CATALOG DISK * * PRINTER * *UPDATED 11/18
/85* *****
300 CALL CLEAR :: CALL SCREEN(11):: COUNT=6
310 DISPLAY AT(15,2):"LIST TO PRINTER?(Y/N)"
320 CALL KEY(0,M,S):: IF S=0 THEN 320
330 YN1$=CHR$(M):: :: X=POS(YN$,YN1$(1)):: IF X=0 THEN 320 :: IF X=1 THEN PL=1 EL
SE PL=0
340 DISPLAY AT(12,2)ERASE ALL:"DISK 1 OR 2?"
350 CALL KEY(0,M,S):: IF S=0 THEN 350
360 DSK1$=CHR$(M):: X=POS(DSK$,DSK1$(1)):: IF X=0 THEN 350
370 CALL CLEAR
380 OPEN #1:"DSK"&CHR$(M)&".", INPUT , RELATIVE, INTERNAL
390 INPUT #1:A$,J,J,K
400 IF PL=1 THEN 410 ELSE 420
410 ELSE 640
420 DISPLAY "DSK";CHR$(1):"-DISKNAME=" ;A$;"AVAILABLE=";K;" USED=";J-K
430 DISPLAY "FILENAME SIZE TYPE P":"-----";
440 INPUT #1:A$,I,J,K
450 IF LEN(A$)=0 THEN 550
460 IF PL=1 THEN 470 ELSE 480
470 GOSUB 740
480 DISPLAY :A$;TAB(12);J;TAB(17);TYPE$(ABS(I));
490 IF ABS(I)=5 THEN 520
500 B$=" "&STR$(K)
510 DISPLAY SEG$(B$,LEN(B$)-2,3);
520 IF I>0 THEN 440
530 DISPLAY TAB(28);"P";
540 GOTO 440
550 CLOSE #1
560 PRINT "-----"
570 GOTO 700
580 REM PRINTER
590 IF PL=0 THEN 690
600 FOR PR=1 TO 24-COUNT
610 PRINT
620 NEXT PR
630 COUNT=3
640 OPEN #20:"PIO" :: PRINT #20:CHR$(27);CHR$(64)
650 PRINT #20:"DSK";STR$(I);"-DISKNAME=" ;A$
660 PRINT #20:"AVAILABLE=";K;" USED=";J-K
670 PRINT #20:"FILENAME SIZE TYPE P"
680 PRINT #20:"-----"
690 RETURN
700 IF PL=1 THEN 710 ELSE 730
710 PRINT #20:"-----"
720 CLOSE #20
730 CALL KEY(0,M,S):: IF S=0 THEN 730 ELSE 140
740 PRINT #20:A$;TAB(12);J;TAB(17);TYPE$(ABS(I));
750 IF ABS(I)=5 THEN 780
760 B$=" "&STR$(K)
770 PRINT #20:SEG$(B$,LEN(B$)-2,3);
780 IF I>0 THEN 800
790 PRINT #20;TAB(28);"P" :: RETURN
800 PRINT #20;TAB(28);"U" :: RETURN

```

TIPS FROM THE TIGERCUB

#27

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156 Collingwood Ave.
Columbus, OH 43213

Distributed by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. May be reprinted by non-profit users groups, with credit to Tigercub Software.

The entire contents of Tips from the Tigercub Nos. 1 through 14, with more added, are available as a full disk of 50 programs, routines and files for just \$15.00 postpaid.

Tip from the Tigercub VOLUME 2 The entire contents of Tips Nos. 15 through 24, with 64 routines and files, also \$15.00 postpaid.

Or both for \$27 postpaid.

Tip from the Tigercub New Catalog #6, for \$1 which is deductible from your first order. Describes 140 original programs for only \$3 each (plus \$1.50 per order for cassette or disk, package and postage).

If you have my previous catalog, the following are now available in Extended Basic versions - Fast Addition Practice, Submarine Hunt, Rithmatik, Mawaland (also now available in Basic with Speech), Long Division Cryptograms, Miss Spell, Scrambulation, Bargraffer, Squinch, Dry Gulch, Name That Tune, Scrum, Midnight Trail, Niabo, Kindertimes, Optical Illusion, Bazoo, Synonymy, Speeder Reader, Changeroo, Blunk, Fraction Math, Three Buckets Puzzle, Roman Numbers, Match A

Patch, Kindermanus, I & E Spelling, Casting Out Nines, Haunted Graveyard, Spalling Teecher, Homonymy, Antonyay, Old -Timer Puzzle, Ten Thousand Sights, Mechanical Aptitude Test, Junior Speeder Reader, and Bars and Balls.

Due to reduced prices for disks and mailers, the PPM charge is now \$1.50 for either disk or cassette - BUT PLEASE BE SURE TO SPECIFY WHICH!

And my best seller - NUTS & BOLTS, a full disk of 100 (yes, I said 100) utility subprograms in MERGE format, ready for you to merge into your own programs. 13 type fonts, 14 text display routines, 9 wipes, 8 pauses, 3 programming aids, 9 data saving and reading routines, 5 graphics routines, 4 time and date, 6 music, 12 sorts and shuffles, 2 printer aids, 4 key and joystick, 4 math, 2 protection and 7 miscellaneous, plus a tutorial on subprograms. With documentation, example of using each subprogram. All for only \$19.95 postpaid.

I have been receiving several requests to publicize freeware which is sometimes good but sometimes of doubtful usefulness, quality, originality or even legality! And "Freeware! Send \$10 and initialized disk" is not freeware, it's somebody trying to get a free ad! So - no more freeware mentions! I am also not going to mention commercial products - after all, I'm publishing this at my own expense to promote my own software! However, I do owe a mention to Larry Hughes of Quality 99 Software, because in Tip #22 I recommended that disks with fractured files should

not be copied with a quick copier. Larry informed that his trademarked QUICK-COPYER is the only program of its kind on the market that does un-fracture files. He sent along a copy to prove it, and it does just that. A very useful feature!

Now, here is the new, and final, version of the Tigercub Menu Loader.

```
100 !by A. Kludge/M. Gordon/
T. Boisseau/J. Peterson/etc.
Version #5, 9/85
110 CALL PEEK(8198,A):: IF A
<>170 THEN CALL INIT
120 OPTION BASE 1 :: DIM P6$
(127),V(127,3):: CALL LOAD(-
31806,16):: ON ERROR 130 ::
GOTO 160
130 DISPLAY AT(12,9)ERASE AL
L:"I/O ERROR" :: RUN 100
140 @,@@,AA,A$,B,C,D$,FLAG,I,
J,K,KD,KK,M,M$,N$,NN,P,P$,P6
$( ),PP,PP$,Q$,S,ST,T$( ),TT,V
T,V( ),W$,X,X$,Y,K2,S2
150 CALL LINK :: CALL PEEK ::
CALL KEY :: CALL SCREEN ::
CALL COLOR :: CALL CLEAR ::
CALL VCHAR :: CALL SOUND ::
!@P-
160 CALL CLEAR :: CALL LOAD(
8196,63,248):: CALL LOAD(163
76,67,85,82,83,79,82,48,8)
170 CALL LOAD(12288,129,195,
126,165,129,153,102,60)
180 CALL LOAD(12296,2,0,3,24
0,2,1,48,0,2,2,0,8,4,32,32,3
6,4,91):: CALL LINK("CURSOR"
)
190 CALL CLEAR :: FOR S=1 TO
14 :: CALL COLOR(S,7,16)::
NEXT S :: CALL COLOR(0,2,16)
200 T$(1)="d/f" :: T$(2)="d/
v" :: T$(3)="i/f" :: T$(4)="
i/v" :: T$(5)="pro" :: ON WA
RNING NEXT
210 IMAGE ###
220 IMAGE ### Quit
230 IMAGE ### Delete
240 IMAGE ### Print
250 IMAGE ### Rescan
260 CALL SCREEN(5):: CALL VC
HAR(1,31,1,96):: DISPLAY AT(
1,4):"TIGERCUB MENU LOADER"
270 ! IF YOU HAVE MORE THAN
ONE DISK DRIVE, DELETE THE !
```

```
IN LINE 200 AND THE FIRST S
TATEMENT IN 210
280 ! DISPLAY AT(12,6):"DISK
? (1-3):" :: ACCEPT AT(12,19
)SIZE(-1)VALIDATE("123"):D$
:: D$="DSK"&D$.
290 D$="DSK1." :: OPEN #1:D$
,INPUT,RELATIVE,INTERNAL ::
INPUT #1:M$,A,J,K :: DISPLA
Y AT(1,2)SIZE(27):SEG$(D$,1,
4)&" - Diskname= "&M$;
300 DISPLAY AT(2,2):"Availab
le=";K;"Used=";J-K:" Prog Fi
lename Size Type":-----
-----" :: I,V
T=0 :: TT=J-K
310 FOR X=1 TO 127 :: IF X/2
0<>INT(X/20)THEN 340
320 DISPLAY AT(24,1):"Choice
? Enter for more 0" :: ACCEP
T-AT(24,24)VALIDATE(DIGIT)SI
ZE(-3):K :: IF K=0 THEN 330
:: IF K>0 AND K<NN+1 THEN 60
0 ELSE 320
330 X=1
340 I=I+1 :: IF I>127 THEN K
=X :: GOTO 510
350 INPUT #1:P$,A,J,B :: NN=
NN+1
360 IF LEN(P$)=0 THEN 430
370 DISPLAY AT(X+4,1):USING
210:NN :: DISPLAY AT(X+4,5):
P$: :: P6$(NN)=P$: DISPLAY
AT(X+4,16):USING 210:J :: DI
SPLAY AT(X+4,20):T$(ABS(A))
380 V(NN,1)=A :: V(NN,2)=ABS
(B): V(NN,3)=J
390 X$=" "&STR$(B): DISPLAY
AT(X+4,24):SEG$(X$,LEN(X$)
-2,3): :: VT=VT+J
400 IF A>0 THEN 410 :: DISPL
AY AT(X+4,20):"Y"
410 CALL KEY(0,KK,ST):: IF S
T=0 THEN 420 :: FLAG=1 :: GO
TO 430
420 NEXT X
430 DISPLAY AT(X+4,1):USING
220:NN :: DISPLAY AT(X+5,1):
USING 230:NN+1
440 IF VT=TT OR FLAG=1 THEN
460 :: DISPLAY AT(2,25)SIZE(
4):VT
450 FOR @=1 TO 10 :: DISPLAY
AT(2,25)SIZE(1):CHR$(30)::
DISPLAY AT(2,25)SIZE(1):" "
:: CALL SOUND(-99,110,0,-4,0
):: NEXT @
460 IF FLAG=1 THEN 470 :: DI
SPLAY AT(X+4,13):USING 240:NN
+2 :: DISPLAY AT(X+5,13):US
```

```

IMG 250:NN+3
470 DISPLAY AT(X+6,1):" C
hoice?" :: ACCEPT AT(X+6,16)
SIZE(-3)VALIDATE(DIGIT):K
480 IF FLAG=1 THEN 500
490 IF K=NN+2 THEN 840 ELSE
IF K=NN+3 THEN CLOSE #1 :: N
N=0 :: GOTO 190
500 IF K<>NN AND K<>NN+1 THE
N 590
510 IF K=NN THEN CALL CLEAR
:: CLOSE #1 :: END
520 DISPLAY AT(X+5,12)SIZE(1
2):" ?" :: ACCEPT AT(X+5,15
)SIZE(2)VALIDATE(DIGIT):K
: IF K<1 OR K>NN THEN 520
530 IF V(K,1)>0 THEN 550
540 FOR J=1 TO 10 :: DISPLAY
AT(11,1):" " PROTECTED -
CANNOT DELETE:" " :: DISPL
AY AT(12,1):" " :: NEXT J ::
GOTO 570
550 DISPLAY AT(X+6,1)SIZE(27
)BEEP:" Verify - Delete ";P6
$(K);"? " :: DISPLAY AT(X+6,
28)SIZE(1):"Y" :: ACCEPT AT(
X+6,28)SIZE(-1)VALIDATE("YN"
):Q$ :: IF Q$<>"Y" THEN 570
560 DELETE D$&P6$(K)
570 CLOSE #1
580 CALL VCHAR(1,3,32,672)::
NN=0 :: X=0 :: FLAG=0 :: 60
TO 260
590 IF K<1 OR K>127 OR LEN(P
6$(K))=0 THEN 430
600 IF ABS(V(K,1))=5 OR ABS(
V(K,1))=4 AND V(K,2)=254 THE
N 640
610 DISPLAY AT(12,1)ERASE AL
L:"Print to ? S": "(P)printe
r?":(S)screen?" :: ACCEPT AT
(12,12)SIZE(-1)VALIDATE("PS"
):Q$ :: IF Q$="S" THEN PP=0
:: GOTO 630
620 DISPLAY AT(12,1)ERASE AL
L:"PRINTER? P10" :: ACCEPT A
T(12,10)SIZE(-18):P$ :: OPEN
#3:P$ :: PP=3
630 CALL CLEAR :: CALL SCREE
N(16):: ON ABS(V(K,1))GOTO 6
80,690,750,760
640 CLOSE #1 :: IF SEG$(P6$(
K),LEN(P6$(K)),1)="" THEN D
ISPLAY AT(12,1)ERASE ALL:"RE
TURN TO BASIC AND LOAD BY:"
TYPING OLD ";D$&P6$(K):: STO
P
650 CALL PEEK(-31952,A,B)::
CALL PEEK(A#256+B-65534,A,B)
:: C=A#256+B-65534 :: A=D$&

```

```

P6$(K):: CALL LOAD(C,LEN(A$)
)
660 FOR I=1 TO LEN(A$):: CAL
L LOAD(C+1,ASC(SEG$(A$,I,1))
):: NEXT I :: CALL LOAD(C+1,
0)
670 CALL VCHAR(1,3,32,672)::
CALL SCREEN(0):: FOR S=0 TO
14 :: CALL COLOR(S,2,1):: N
EXT S :: DISPLAY AT(12,2):"L
OADING ";A$ :: GOTO 900
680 OPEN #2:D$&P6$(K),INPUT
,FIXED :: 60TO 700
690 OPEN #2:D$&P6$(K),INPUT
700 LINPUT #2:M$ :: PRINT #P
P:M$ :: IF EOF(2)THEN 730
710 CALL KEY(0,K,S):: IF S=0
THEN 700
720 CALL KEY(0,K2,S2):: IF S
2<1 THEN 720 ELSE 700
730 CLOSE #1 :: CLOSE #2 ::
PRINT " >>>press any key<<
" :: IF Q$="P" THEN CLOSE #
3
740 CALL KEY(0,K,ST):: IF ST
<1 THEN 740 ELSE 500
750 OPEN #2:D$&P6$(K),INPUT
,INTERNAL,FIXED :: J=0 :: 60
TO 770
760 OPEN #2:D$&P6$(K),INPUT
,INTERNAL :: J=0
770 IF EOF(2)=1 THEN 730 ::
J=J+1 :: INPUT #2:M$ :: IF L
EN(M$)=8 THEN 790
780 PRINT #PP:M$ :: GOTO 820
790 FOR Y=1 TO 8 :: @@=ASC(
SEG$(M$,Y,1)):: IF @@<32 OR @
@>127 THEN 810
800 NEXT Y :: GOTO 780
810 RESTORE #2 :: FOR X=1 TO
J-1 :: INPUT #2:M$ :: NEXT
X :: INPUT #2:M$ :: PRINT #PP
:M$
820 CALL KEY(0,K,S):: IF S=0
THEN 770
830 CALL KEY(0,K2,S2):: IF S
2<1 THEN 830 ELSE 770
840 DISPLAY AT(24,1):"PRINTE
R NAME? P10" :: ACCEPT AT(24
,15)SIZE(-14):PP$ :: OPEN #2
:PP$ :: PRINT #2:SEG$(D$,1,4
) - Diskname="&M$
850 PRINT #2:RPT$("=",28):"A
vailable=";350-VI;"Used=";VT
:RPT$("",28)
860 PRINT #2:"FILENAME SIZE
TYPE":RPT$("_",28)
870 FOR P=1 TO NN-1 :: PRINT
#2:P6$(P);TAB(15);V(P,3);TA
B(20);T$(ABS(V(P,1)));TAB(25

```

```

);V(P,2):: NEXT P :: CLOSE #
2
880 DISPLAY AT(12,3)ERASE AL
L:"(P) to print again:" (R
) to rescan:" (Q) to quit"
890 ACCEPT AT(15,4)VALIDATE(
"PQR")SIZE(-1)BEEP:Q$ :: IF
Q$="P" THEN 840 :: CLOSE #1
:: NN=0 :: IF Q$="R" THEN 19
0 ELSE END
900 RUN "DSKX.1234567890"

This version turns off
the Quit key, restarts
itself rather than crashing
on an I/O error, and has
pre-scan for faster
start-up. It displays disk
name, sectors available and
sectors presumably used - it
also totals up actual
sectors used and sounds a
warning if any sectors are
not accounted for.

It lists up to 127
programs and files by
number, filename, number of
sectors, program or file
type, file record length,
and write-protection. It
will stop for menu selection
on any keypress or at the
end of each screen,
continuing on Enter. It
will load and run any
program that can run from
Extended Basic, displaying
its filename while loading.
If the filename ends in an
asterisk, it will warn you
to return to Basic. It will
delete any unprotected
program or file, after first
requiring verification by
filename, or will inform you
if the file is protected.
It will read any readable
file, including internal
numeric, and list it to
screen or printer. It will
dump a catalog of the disk
to your printer, and it will
offer the option of quitting
or rescanning the disk or
another disk. And it's
free, I don't even want a
freeware donation - but I
would appreciate if you
would take a look at my
catalog and see if,

```

```

somewhere among those 140
programs, there might be
something you would be
willing to pay $3 for? The
Menu Loader is included as a
bonus on every disk I sell!

100 CALL CLEAR :: RANDOMIZE
:: DISPLAY AT(3,4):"TIGERCUB
MATH PUZZLE"
110 DISPLAY AT(6,1):"Insert
+, -, * (multiply) OR / (div
ide) between the digits
to equal the total": "Type
Q to give up"
120 DISPLAY AT(12,1):"Level
1 or 2?" :: ACCEPT AT(12,15)
VALIDATE("12"):L$
130 T,X=INT(9*RND+1):: M$=ST
R$(X):: Z$=M$&" "
140 FOR J=1 TO 4 :: Y(J)=INT
(9*RND+1):: Z=INT(4*RND+1)::
ON Z GOSUB 240,250,260,270
:: Z$=Z$&STR$(Y(J))&" " :: N
EXT J
150 IF L$="1" AND T<>INT(T)T
HEN 130 :: Z$=Z$&"&STR$(T)
160 DISPLAY AT(12,1):Z$ :: D
ISPLAY AT(18,1):" " :: DISPL
AY AT(20,1):" " :: DISPLAY A
T(22,1):" "
170 P=2 :: FOR J=1 TO 4 :: A
CCEPT AT(12,P)VALIDATE("Q+*
/")SIZE(1):S$
180 IF S$="Q" THEN 200 ELSE
IF S$="+" THEN X=X+Y(J)ELSE
IF S$="-" THEN X=X-Y(J)ELSE
IF S$="*" THEN X=X*Y(J)ELSE
X=X/Y(J)
190 P=P+2 :: NEXT J :: IF X=
T THEN 230 :: DISPLAY AT(18,
1):"WRONG!"
200 DISPLAY AT(20,1):"ANSWER
IS ";M$
210 DISPLAY AT(22,1):"PRESS
ANY KEY"
220 CALL KEY(0,K,ST):: IF ST
<1 THEN 220 :: GOTO 130
230 DISPLAY AT(18,1):"RIGHT!
" :: GOTO 210
240 M$=M$&"+"&STR$(Y(J)): T
=T+Y(J):: RETURN
250 M$=M$&"-"&STR$(Y(J)): T
=T-Y(J):: RETURN
260 M$=M$&"*"&STR$(Y(J)): T
=T*Y(J):: RETURN
270 M$=M$&"/"&STR$(Y(J)): T
=T/Y(J):: RETURN

Enjoy!

Jim Peterson

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