

REHINDER REMINDER NEXT MEETING TUESDAY 1/30/90 M 7'O CLOCK P. N. I ROUND TABLE PIZZA D REST 4th & VINE RENO, MEVABA RENINDER REBIN

IN THIS ISSUE!

- TIPS FROM THE TIBERCUB \$57
 Courtesy: Jim Peterson (Tigercub Software)
- * XB SPEED Hord Hunting Courtesy: Jack Sughrue - IMPACT 99
- * infoBITs (TI News)

TI FEST MEST! Courtesy: Jim Ely - VAST NEWS / Jan '90.

* SHORTSYTES (Type-in Programs)

TI-ARTIST FONTSCAN (Freeware graphic utility - XB) Courtesy: L. Borais, Ottawa Users' Broup - via the HEST PENN 99'ers / Nov '39,

- * HORD SAFARI (Hord puzzle)
 Theme: SUPERBONL!
- * DISKS OF THE WONTH
- 1. TETRIS (Fairware game XB)
 Courtesy: Alexander Hulpke via LIMA 99/4A Users'
 Group.
 - 2. NAAT (Ver. 2/24/89 Disk Directory Utility XB, Super XB, Mechatronics XB) Courtesy: Miami Users' Group.

MEETING MINUTES - 12/20/89

THERE HERE NO MEETING MINUTES... Instead, the group had a great little Christmas Party at Round Table Pizza. Food and drink were provided courtesy of the 4M treasury.

The party began at 6:00 P.M. and ended around 8:30 P.M. Over 20 people showed up for the festivities. The evening included some demos of newsletter programs, gift-swapping, Bisks of the Month give-aways (Carfax Abbey and Quest), and a blackout BIMGO game. Joel Cote' was the lucky winner of the Crocheted Mouse - donated by Mrs. Edie Dottling, and Roland Chapman won the embroidered Christmas Sleigh - donated by Mrs. Audrey Conradt. A.G.T.M.B.B.A! (A good time was had by all!)

** OLD BUSINESS **

"IMPORTANT REMINDER" Annual membership fees are due and payable at the upcoming meeting - Tuesday, January 30, 1990. Alease, bring cash or check and help support your local users' group for another fun-packed, educational year.

If you are thinking of leaving the group because you can no longer attend the monthly meetings but would like to remain involved, why not consider an associate membership? For only \$15, you can receive the monthly memsletter and will at least be kept informed as to the latest goings-on in the TI community.

The TI/99/4A POSTER of SPOCK will be handed out to members at the January meeting for local distribution.

A friend and longtize member of 4N, NR. JOE DETTLING, passed away recently during the holidays. To his mile, we offer our deepest sympathies... OUR HEARTS ARE HITH YOU, EDIE.

** DISK'S OF THE MONTH **

The following two programs will be featured this month and demoed after the general meeting by Ed Conradt:

Bisk #1 -

BOOT (Utility software - XB, Super XB, or Mechatronics XB required.) A copyrighted fairware disk utility offered by Miami Users' Aroup, 6755 Iamiami Canal Road, Miami, Fl 33126. Asking for any amount in the way of donations and/or comments.

This is a sensational utility which should have been thought of a long time ago for the XB environment. Noted for its ease of operation and its valuable time-saving steps, 800T, quite simply, is a very versatile, user-friendly disk directory progam. It is similar in many ways to the menu-driven directory program once available only to Horizon Ram Disk owners. Some of 800T's credentials include:

- List directory to printer or screen
- 2. View AHY file
- 3. Ran ANY program
- 4. Add User configurable options

- 5. Change background colors 6. Change foreground colors
- 7. Delete ANY file
- 3. CALL a routine with goe key
- 9. Cycle through all GROM's
- 10. Bet and display a ROM cartridge header at >6000
- 11. Boot-tracking option
- 12. Toggle the XB color interrupt routine on or off 13. NORE...
- An excellent and highly recommended utility. Bocs are included.
 - Minimum system requirements: ** II-99/4A console

 - * 32K memory expansion
 - * 1 SSSD disk drive
 - * ANY EXTENDED BASIC cartridge

lisk #2 -

TETRIS - (Fairware game, Ver. 1.3 - AB required.) Author: Alexander Bulpke, Sadomstrasse 68,d-3600 Happertal 1, West Bermany. Asking \$10 if you ase his program.

The object of TETRIS is to assemble, as compactly as possible, an onslaught of various puzzle pieces as they plummet towards the bottom of the screen. There are only four basic shapes to contend with, each one different in color. Simple? Whith... I don't think so.

Before you can start, though, you must choose the speed of descents after which, you are given complete control of the pieces as they begin to fall, one by one, to the bottom. As soon as one piece is in place, a second one starts to drop immediately. While its falling, you can move each piece to the left or to the right, rotate it, or even drop it quickly to the bottom. This is a very well written program with great graphics, good music (Scarborough fair), and is definitely a challenge to play. (I'll bet you can't keep from swearing even a little in this one! Try it for yourself.)

Minimum system requirements: II-99/4A console

- * 32K memory expansion
- * 1 SSSD disk drive
- EXTENDED BASIC cartridge

*** Editor's Notes: ***



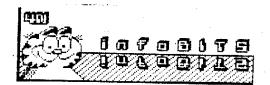
A TIP of the 10 gallon hat to:

Mr. Charles Good of the LIMA 99'ers users' group. kindly sent us the latest FUNNELHEB update, version 4.21. It is available through the program library for a nominal foe. If you try it and like it, remember to send lony & and Hill Actionern a thank you message in the form of an international money order,

Charles Good is also offering to Osers's Groups Only a widen tape demonstrating the Configuration feature of FH, step by step. For those groups interested, send a blank OHS tape and paid return mailer, or 15 to: LINA 99/4A UG, P.O. Box 647, Venedocia, OH 45894.

It has come to my attention that the CARFAX ABBEY disk given away at the Christmas Party last wonth had a bug in the loading sequence. It appears that while converting the program, I accidentally typed in two "D's" at the end of the second load filename, "CARF/LOAD". To correct this, simply fire-up your Bisk Manager 2, (Or BM1000) and change the filename from "CARF/LOADD" to "CARF/LOAD". Sorry!

Also, for those of you who have taken the time to type-in the program, VICIOUS, from the December issue of the OUTHPOST and can't seem to get it to run correctly; try examining line 150, which starts out: FOR A=4 TO 18... In the sequence following the DISPLAY AT command. there is a lower-case "L" in it," MOI the numeral "1" Make that simple correction and you won't (shouldn't) have anymore problems.



·************

TI FEST HEST 1990! By Jim Ely, WAST HEHS / Jan '90.

The Best Faire In The Hest is this year being hosted by the Southwest Minety-Miners In Tucson. The dates to remember are february 17, 1990 from 9 A.M. to 5 P.N. and February 18, 1990 from 9 A.M. to 3 P.M. It is being held at the Days Inn, 88 E. Broadway, Tucson, AZ 85701. for room reservations call(602) 622-4000 and ask Olivia for fest West hotel rates. Admission for the faire is \$4, under 15 years old free when accompanied by an adult. One of the main prizes to be given away is a NYARC HFD controller card. Other prizes and door prizes will also be announced. For more information, you can call the Cactus Patch BBS at (602) 795-1953 in Tucson. You can contact the Southwest Hinety-Hiners directly at P.J. Box 17831, Tucson, Az 85730, (602) 747-5046. (I have two complete information packages for anyone interested. -Fd.)

(The OUT*POST is compiled with Hill and Tony McGovern's FUNNELNES (44.21), Chris Faherty's TI-ARTIST+, and Jack Sughrae's PLUS)

TIPS FROM THE TIGERCUB

#57

Tigercub Software 156 Collingwood Ave. Columbus OH 43213

I am still offering over 120 original and unique entertainment, educational and utility programs at just \$1.00 each, or on collection disks at \$5.00 per disk.

The contents of the first 52 issues of this newsletter are available as ready-to-run programs on 5 Tips Disks at \$10 each.

And ay three Nuts & Bolts Disk, \$15 each, each contain over 100 subprograms for you to merge into your own programs to do all kinds of wonderful things.

My catalog is available for \$1, deductable from your first order (specify TIGERCUB catalog).

TI-PD LIBRARY

I have selected public domain programs, by cateto fill over 200 disks, as full as possible if I had enough programs of the category, with all the programs con-Basic-only verted to XBasic, with an loader provided for assembly proprams if possinstructions added ible. and any obvious bugs corrected, and with an autoloader by full program name on each disk. These are available as a copying service for just \$1.50 postpaid in U.S. and Canada, No fairware will be offered without the author's permission. Send SASE for list \$1. refundable for 9-page catalog listing all titles and authors. Be sure to specify TI-PD catalog. ******************

I like little programs that load quickly and do just what I want to do at the moment. And one of the things I wanted to do quickly was to find phone numbers. So, I used FUNLWEB to create a little file -

SMITH, JOHN (999) 111-2222
BUSH, 6EO. (000) 123-1234
6HADDAFI, D. (666)66-6666
and all my other frequently called numbers. I SAVEd
it as DSKi.PHOMELIST and
wrote this little routine to
use it.

100 CALL CLEAR
110 OPEN \$1:"DSK1.PHONELIST"
,INPUT
120 DISPLAY AT(12,1):"LAST N
AME?" :: ACCEPT AT(14,1):N\$
130 LIMPUT \$1:N\$:: IF POS(N
\$,N\$,1)<>0 THEN DISPLAY AT(1
6,1):M\$:: RESTORE \$1 :: 60T
0 120
140 IF EOF(1)<>1 THEN 130
150 DISPLAY AT(16,1):"NAME N
OT FOUND" :: RESTORE \$1 :: 6
0T0 120

Now actually, that was all I needed, (even though it did take several seconds to find a name at the end of the file), and it was easy enough to load the file into FUNLMEB when it needed updating. But, programmers are never satisfied, so I decided to write a self-contained program —

100 CALL CLEAR
200 DATA "ALDA, ALAN 888-999
9"
201 !@P300 DATA "BUSH, GEDRSE 111-1
111"
400 DATA "PRESLEY, ELVIS 000
-0000"
499 !@P+
500 DISPLAY AT(12,1):"LAST N
AME?" :: ACCEPT AT(14,1):Ns
600 READ MS :: IF POS(MS,NS,
1)(>0 THEN DISPLAY AT(16,1):
NS :: RESTORE 200 :: GOTO 50
0
700 ON ERROR 800 :: GOTO 600

800 DISPLAY AT(16,1): "NAME N OT FOUND" :: RESTORE 200 :: 50TO 500

That funny thing in line 201 turns off the prescan and speeds up initialization. This routine is no faster than the last, but can be updated by editing the program itself. It is limited to about 500 records due to the least-known and greatest weakness of the TI, that string storage is limited to console memory.

But, computer users are paranoid about speed, so I decided to put my data into a pre-loaded array with self incrementing subscript numbers, and find the data by a binary search.

100 !QUICKFINDER by Jim Pete

rson 200 DIN D\$(50):: SOTO 300 :: D\$().X :: !@P-300 X=X+1 :: D\$(X)="ALDA, AL AN (999) 666-1234" 400 X=X+1 :: D\$(X)="BUSH, 6E ORSE (111) 111-1111" 500 X=X+1 :: D\$(X)=*GHADDAFI DMAR (999) 456-1234567* 400 X=X+1 :: D\$(X)=*KHOMEINI , AYATOLLAH (666) 666-6666" 700 !@P+ 800 INPUT "NAME? ":M\$ 900 IF MS>DS(X)THEN PRINT "N OT FOUND": "CLOSEST IS": D\$(X) :: 6DTO 800 1000 IF M\$ (D\$ (1) THEN PRINT " NOT FOUND": "CLOSEST IS": D\$(1):: 60TO 800 1100 H=X :: S=INT(X/2) 1200 S\$=D\$(S):: IF POS(S\$.M\$,1)=1 THEN 1700 1300 S\$=D\$(S+1):: IF POS(S\$, M\$.1)=1 THEN S=S+1 :: 50TO 1 1400 IF S\$>M\$ THEN H=S :: S= INT(H/2):: 60T0 1600 1500 S=S+INT((H-S)/2) 1600 IF S=S2 THEN 1800 ELSE 92=9 :: 60TO 1200 1700 PRINT D\$(S):: 60T0 800 1800 PRINT "NOT FOUND": "CLCS FST ARF 1900 IF D\$(S2)>M\$ THEN PRINT D\$(S2-1):D\$(S2+1):: 50T0 B0 2000 PRINT D\$(S2+1):D\$(S2+2)-:: 60T0 800

Note that in this case the records must be in alphabetical sequence. New records can be inserted in interpediate line numbers, in alphabetic sequence, always preceded by X=X+1 :: D\$(X)=. Obsolete records can be deleted, and records can be corrected in place if the correction does not change the alchabetic sequence.

This idea did not work out as well as I hoped. The maximum number of records is less than 300, for the reason mentioned above, and this leaves so little free memory that even a binary search is slow. However, for a smaller file this is perhaps the best method.

For a large file, the best method is certainly a fixed sequential disk file, accessed by a binary search routine. But, that requires other routines to delete, add or change records, and had best be the subject of another Tips.

There is apparently a mistaken belief that sprites cannot be used together with my BXB routine. Not so you can use all 28 of them! However, you cannot change their color with COLOR(\$.N). The only other limitations of BXB that I can think of, are that a single CALL COLOR cannot be used for multiple character sets and a single CALL CHAR can only reidentify one character. CALL CHARPAT cannot return the hex code of an ASCII above 143 because those ASCII's were not supposed to be available in Extended Basic.

I have used BXB on hundreds of Basic-only programs and have had only two rare problems. If the program contains multiple line feed colons :::::, the computer may rearrange them into pairs of double colons :: :: and lock up. Or, if the colons are before the text, as in PRINT :"spmething" you say get a puzzling error message.

Also on rare occasions you might get an error message indicating the subprogram was called from a line containing a CALL CHAR, if the programmer had inadvertently put more than 16 characters in the hex code. Basic just ignores any extra characters, and XBasic uses them to reidentify the following ASCII, but BXB crashes.

From the T\$1\$M\$E\$8 newsletter from England, here is an extremely useful bit of assembly which should be assembled as ALPHA/O and placed on the disk of every joystick program, or imbedded in it with ALSAVE.

DEF ALPHA # save old R12 ALPHA MOV R12,8>FFFC # 9900 CRU base=0 CLR R12 # signal alphalock key line SBZ 21 # check alchalock other side TB 7 # jump if state=on JNE STATE \$ state=off SETO @>FFFE # as off skip next line JMP JUMPA * state=on STATE CLR @>FFFE * stop sending to alpha key JUMPA SBO 21 # restore R12 MOV 8>FFFC.R12 # standard XB return now I clear error for basic

SB

8

END

return to calling program

@>0070

ALPHA

@>837C.@>837C

Now, put this in the first lines of the joystick program -

1 ! by M. Gikow, Andover
MA August 1988
2 ! used with ALPHA/G,
will detect whether
Alpha Lock is up (A=
255) or down (A=0)
3 CALL CLEAR :: CALL INIT ::
CALL LOAD("DSK1.ALPHA/O")
4 CALL LINK("ALPHA"):: CALL
PEEK(-1,A):: IF A=0 THEN DIS
PLAY AT(12,1): "RELEASE ALPHA
LOCK" :: 60TO 4 ELSE CALL CL

I published this one in the C.O.N.N.I. newsletter. Barry Traver picked it up and put it in the TI Forum in Computer Shopper, but their typesetter garbled it, so here is how it was supposed to be —

According to the TI-Writer Reference Suide, page 77, when you select the PrintF command, then type C and space once and then the device name, any control characters with ASCII less than 32 are removed before the file is printed.

With Funlweb, at least, this is not quite true. A carriage return character, ASCII 13, or a line feed character, ASCII 10, at the end of a line is actually not deleted but is changed to the space bar character, ASCII 32. This can be proved by running this little routine —

100 OPEN #1:"DSK1.(filename)
",INPUT
110 LINPUT #1:M\$:: PRINT M\$
:LEN(M\$):: IF LEN(M\$)>0 THEN
PRINT ASC(SEG\$(M\$,LEN(M\$),1
))
120 CALL KEY(O.K.S):: IF S=0

Therefore, when a file is Filled/Adjusted and the line feed characters are stripped

THEN 120 ELSE 110

with the C option, the lines are one character longer than they appear to be. An apparently blank line also contains ASCII 32.

Since these characters are blank, they normally do no harm. However, they can create problems when records are read into programs for aultiple column printing or concatenation of strings. In these cases, this routine can be used to strip out any ASCII below 33 at the ends of records.

100 DATA INPUT, OUTPUT
110 FOR J=1 TO 2 :: READ J\$
:: DISPLAY AT(12,1) ERASE ALL
:J\$&" FILENAME?": "DSK" :: AC
CEPT AT(13,4):F\$(J):: OPEN \$
J: "DSK"&F\$(J), UPDATE :: NEXT
J
120 LINPUT \$1:M\$
130 IF ASC(SEG\$(M\$, LEN(M\$), 1
))<33 THEN M\$=SEG\$(M\$,1,LEN(M\$)-1):: IF LEN(M\$)>0 THEN 1
30
140 PRINT \$2:M\$:: IF EOF(1)
<>1 THEN 120 :: CLOSE \$1 ::
CLOSE \$2

Attention all newsletter editors! If you are going to print ay Tips (or anything else that contains program listings!) through the Formatter, PLEASE first replace and transliterate the ampersand, asterisk, period, carat and "@" sign!

Print this one through the

Print this one through the Formatter and see why -

100 A=A\$264 :: 8=1 110 PRINT "1 . . . 2 . . . 3 . . . 4 . . . 5 . . . 6 7 . . . 8 . . . 7 . . . 0" 120 M\$=M\$&A\$&B\$&C\$:: K=K^3

Here's how you do it. Load the above in the Editor, position the cursor at the beginning of the 1st line, hit FCTN 9, type RS and Enter, then /%/// and Enter. At the prompt, type A. Now get the cursor back to the beginning, repeat the

above with $/\frac{\pi}{i}$, and then $/./\sqrt{}$ and $/^{\pi}$ and $/^{\pi}$ and $/^{\pi}$ and the file should now look like this -

100 A=A:264 :: {=1
110 PRINT "1 \ \ \ 2 \ \ \ 3
\ \ \ 4 \ \ \ 5 \ \ \ 6 \ \
\ 7 \ \ \ 8 \ \ 7 \
\ \ 0"
120 M\$=H\$;A\$;B\$;C\$:: K=K~3

Now use FCTN 8 to open 5 lines at the top and add this transliteration -

.TL 72:46 .TL 123:64 .TL 124:42 .TL 125:38 .TL 126:94

Save the result, go to the Formatter and print it.

If my multi-column Printall program (Tips from the Tigercub #45) won't run on your Epson-compatible printer, try changing line 250 to -

250 ACCEPT AT(12,3) VALIDATE(
"123") SIZE(1):P:: IF P=2 TH
EN PRINT \$1:CHR\$(27); CHR\$(77
) ELSE IF P=3 THEN PRINT \$1:CHR\$(15)

You might also need to change the 136 in line 280 to 132.

If your printer offers the elite condensed option, you might want to add -

:* (4) ELITE CONDENSED* to line 240, change the VALIDATE string in 250 to "1234*, add ELSE IF P=4 THEN PRINT #1:GHR*(27);CHR*(77);C HR*(15) to the revised line 250 and add +(P=4)*160 to the first statement in line 290.

Memory almost full,

Jia Peterson

100 REH 18 TI-ARTIST FONTSCA N / L.Dorais, Ottawa U.S) /A pril 1989 110 OH ERROR 430 :: CALL CHA R(142, "000000FF", 143, "007E42 5A5A5A427E") 120 BS=RPTS(" ",8):: LS=RPTS (CHR\$(142),28):: LD\$=B\$&SE6\$ (L4,1,12):: L4=B\$4SE68(L4,1, 20):: F#="1." 130 60TO 150 :: AS,BS,CS,DTS ,F\$,LC\$,P\$,SB\$,UC\$,A,C.DT,HB ,K.LB,LC,P,R.RS,S,SB,UC,V,I, 140 CALL HCHAR :: CALL KEY : : CALL CHARSET :: CALL ERR ! 150 DISPLAY AT (6.1) ERASE ALL :"UPPERCASE":L\$: :L\$: :"LOWE RCASE":LS:LS: :LDS: "DIGITS ":LDS: :LSS: "OTHERS":CHR\$(14 3) & "=space": LS\$ 140 BISPLAY AT(1,1): SCAN WH ICH FONT?": :*DSK*&F\$:: CAL -L CHARSET :: UCs.LCs.DTs.SBs 170 ACCEPT AT (3,4) SIZE (-12) B EEP:F\$:: F\$="DSK"&F\$ 171 IF POS(F4, "/CH", 6) >0 THE N 60SUB 423 :: 60TD 280 180 IF POS(F*, " F*, 6)=0 THER F\$=F\$L" F" 190 OPEN #1:F4. INPUT :: UC.L C=4 :: DT.SB=12 :: RS=21 ! d

isplay coluen 200 1 11 scan file 11 210 LIMPUT \$1:85 :: IF EDF11 THEN 280 220 IF LEN(88)>1 THEN 210 EL SE A=ASC(B\$)! found a char.(LEN=1) 230 IF A)=65 AND A(=90 INEM CALL HC(8.UC.A.UC\$):: IF A() 45 THEN 210 ELSE 60SUB 350 : : 60TO 210 ! upper case; if A, draw it 240 IF A>=97 AND A<=122 THEN CALL HC(13,LC,A,LCs):: 60TO 210 ! lower case 250 IF A>=48 AND A<=57 THEN CALL HC(17,DT,A,DTs):: 6010 210 ! digits 260 IF A=32 THEN A=143 ! spa ce shows as a square on scre 270 CALL HC(RS.SB.A.SBs):: I F 88430 THEN 210 ELSE 58=12 :: RS=22 :: 60T8 210 280 CLOSE OL :: DISPLAY AT (2 4, 2) BEEP: "[A JNOTHER [P]RINT COJUIT" ! end 290 CALL KEY (3, K, S):: IF 5=0 OR K<>65 AND K<>81 AND K<>8 0 THEN 290 300 IF K=65 THEN FS=SE65 (FS. 4,2):: 60TO 150 ELSE IF K=61 THEN END 310 OPEN 01: "PIO" :: B9="

" 11 CS=CHR\$(14)! print 320 PRINT 01:BSLBSL" FONT: "&C\$&\$E\$\$ (F\$,6,10): : #\$\$ "UP PER CASE: "NUCS: BSA"LOWER C ASE: "ALCS: BOADSA "DIGITS: "LOTS: BSLOSE "OTHERS: "LSDS 330 PRINT 01: ": ": ": :: 60T **9** 290 340 ! \$\$ sub dram "A" \$\$ 350 DISPLAY AT(1.19) BEEP: "A> :: LIMPUT 81:AS :: C=VAL(S E68(A8.1.1)):: R=VAL(SE68(A8 .3.1)):: K=127 360 FOR X=1 TO R :: FOR Y=1 TO C 21 LIMPUT 01:AS 12 Sat :: C\$=** 370 P=POS(A8,",".5):: IF P=0 THEN POLEN(AS)+1 380 V=VAL(SEG#(A#,S,P-5)):: IF V=0 THEN CS=CS&*00* :: 60 TO 400 390 HB=INT(Y/16):: CALL CBYT E(HB,C\$):: LB=V-168HB :: CAL L CBYTE(LB,CB) 400 S=P+1 :: IF S(=LEN(AS)TH EN 370 410 CALL CHAR(K.CS):: CALL H CHAR(I,Y+23,K):: K=K+1 :: [F K=142 THEN K=91 420 MEXT Y :: NEIT I :: RETU ŔN 422 ! ## sub C.S.D.6. ## 423 OPEN #1:F4, IMPUT , INTERN AL, VARIABLE 254 :: IMPUT 81: A,C,P,R 424 IF AC28 THEN 428 ELSE IF A)44 THEN 425 ELSE 426 425 LCS="abcdefgh1/klanopgrs tuvuxyz" :: BISPLAY AT(13,2) :LCS 426 BT9="0123456709" :: DISP LAY AT(17,10):DT8 427 584-*10..**:-* :: DISPLA Y AT (21,11):586 428 UCS="ASCDEF6HIJKLMNOPQRS TUVWIYZ" :: BISPLAY AT(8,2): 429 CALL HCHAR(21.12.143):: 584="40 "4584 :: RETURN 430 CALL ERR(I,Y,HB,LB):: IF I=130 THEN ON ERROR 430 :: RETURN 170 til error is I/O: go back to accept filename 440 DISPLAY AT(24,1)BEEP: "ER ROR: ":X;" in LINE":LB :: STO P! other errors 450 !8P+ 460 SUB HC(R, I, A, A\$):: CALL HCHAR(R.1.A):: IF AC)143 THE # AS=AS&CHRS(A)ELSE AS="sp ' LAS 470 I=I+1 :: SUBEND 480 SUB CBYTE(X,CS):: IF 1(1 O THEN CS=CS4CHRS(1+48)ELSE CS=CSECHRS(I+55) 490 SUBERD

A LOT OF FONTS ARE AVAILABLE TO TI-ARTIST AND C.S.G.D. FANS, BUT ONLY IF YOU KNEW WHICH CHARACTERS WERE IN THE FONT, AND WHAT THEY LOOKED LIKE, WITHOUT HAVING TO LOAD THE GRAPHIC PROGRAM AND TYPE THE WHOLE RANGE JUST TO SEE! PETER HODDIE'S FONT WRITER AND GRAPHIC EXPANDER HAVE THE SCAN OPTION, BUT PERHAPS YOU DON'T OWN THEM; AND THEY HAVE A DRAWBACK: ALL CHARACTERS BEING LISTED TOGETHER, THE SYMBOLS AND PUNCTUATION CHARACTERS ARE HARD TO SPOT. SO I WROTE THIS QUICKIE, TO DISPLAY THE CHARACTERS IN FOUR CATEGORIES: UPPER CASE, LOWER CASE, DIGITS, AND OTHERS (SYMBOLS AND PUNCTUATION). THE LETTER "A" IF PRESENT, IS DRAWN ON THE SCREEN IN ACTUAL SIZE.

THE DIS/VAR 80 FONT FILE IS READ LINE BY LINE; WHEN A SOLE CHARACTER IS ENCOUNTERED IT MEANS "THIS IS THE CHARACTER DEFINED NEXT"; LINE 220 WILL TAKE IT'S ASCII VALUE A, AND THE SUB HC WILL SHOW IT ON THE SCREEN, IN THE APPROPRIATE CATEGORY; IT WILL ALSO BE ADDED TO A STRING FOR THE PRINTOUT. IF THE CHARACTER IS AN "A", THE PROGRAM JUMPS TO A SUBROUTINE.

TO DRAW THE "A", WE LINPUT THE NEXT LINE IN THE FILE: IN LINE 320, WE EXTRACT THE TOTAL COLUMNS AND ROWS; WE DON'T NEED THE THIRD VALUE IN THE LINE, "PIXEL JUMP". EACH SUBSEQUENT LINE CONTAINS THE DECIMAL EQUIVALENTS OF THE HEX BYTES FOR ONE CHARACTER DEFINITION, SEPARATED BY COMMAS. THESE VALUES ARE READ AND TRANSFORMED INTO THEIR HEX VALUE BY CALL CBYTE; WHEN THE STRING C\$ IS COMPLETE, WE CALL CHAR A CHARACTER ABOVE 127 AND CALL HCHAR IT IN THE UPPER CORNER OF THE SCREEN (FOR VERY BIG CHARACTERS, COUNTER K REVERTS TO 91 UPON REACHING CHARACTER 142, ALREADY USED FOR THE SCREEN DISPLAY).

WHEN ALL THE FILE HAS BEEN READ, YOU CAN SCAN (A)NOTHER FILE, (P)RINT A LISTING (MINUS THE GRAPHIC "A"), OR (Q)UIT. IF YOU WISH TO GET A GRAPHIC DUMP OF THE SCREEN WITH THE "A", YOU CAN USE AN ASSEMBLY SCREEN DUMP AT THIS POINT (CALL LOAD THE FILE BEFORE LINE 150; CALL LINK REPLACES 310-320).

(I CHANGED THIS PARAGRAPH TO REFLECT THE FACT THAT THE PROGRAM LINES TO SCAN C.S.G.D. FONTS ARE ALREADY ADDED. [WOODY]). IN C.S.G.D. FONTS THE "A" WILL NOT BE DISPLAYED, AS I DON'T KNOW YET HOW IT'S DONE! THESE FONTS FOLLOW THE SAME PATTERN: UC ONLY, UC/DIGITS /OTHERS (ALWAYS THE SAME ONES), UC/LC/DIG/OTHERS; THE VALUE A, THE TOTAL NUMBER OF CHAR. IN THE FILE TELLS THE STORY. WHEN YOU WISH TO SCAN A C.S.G.D. FONT YOU MUST ADD THE "/CH" SUFFIX TO WARN TEX

IMFACT/99 by Jack Sughrue

XB SPEED

WORD HUNTING

Puzzles are a word-processing tool we often forget about. Although I'm not much of a word hunt person (word search, find-a-word, whatever), my fifth-grade students are. I prefer crosswords or cryptograms, but wordhunts have their value. They are also a very pleasant way to introduce the names of bones in the human skeleton or the Presidents or geometrical terms. Computers are great teacher helpers in these matters. All one has to do is find a puzzle-creator program from somewhere and type in the words. The sorting and placement and completion of the puzzle is done by our 99. So is the making of hardcopies of puzzle, wordlist, answers. It's so easy. But not always so quick.

Way back in 1982 HORD SAFARI was programmed for TI. It's amazing how many people own it but never use it. Most people got it with OLDIES BUT GOODIES before they got printers or disk drives. By the time they got these things they'd long since forgotten this puzzle gem.

I have six word hunt programs, PD and commercial, but there was always a few things about WS that appealed to me. (The "thinking numbers" on the lower right screen, for one.) Though it was soundless and colorless and was SLOW BASIC and had very poor printouts, the program had a structure I liked. The way the menu operation worked appealed to me.

I decided to use that original structure to make a more modern version of this puzzle, suited for disk. First it had to be XB for speed and because I don't know assembly. Then it had to have a continuing music pattern while the reading was going on internally. It also had to have color. And some better screen directions. And much better hardcopies (enlarged, double strike, etc.) with a better overall look. It also had to be drastically reduced in size, though XB would take care of some of that automatically.

I printed out all six of my word hunt puzzles to see what features I wanted for this new one and how I could most efficiently program it. It was fun. Besides the menu operation, I found the sizes offered were excellent for the different kinds of things I planned to do in my classroom. Each of the programs presented me with interesting concepts and interesting problems. However, after three days (nights, actually) I had a debugged version which satisfied me. Then, as I do with all programs, I gave it to some adults and some kids to play with. The input from them helped me fine tune the project. I then (as I always do) put it away for a couple weeks.

Later, I took the "worker" disk out of storage, turned on my Gemini, and set out to do my first "official" school puzzle: names of dinosaurs (thus I <u>had</u> to use the large square).

Perfect.

I made 27 copies of the puzzle and word list for the kids and one copy of the answers for me. FAST!

Then I put this right on my FUNLPLUS! and was ready to use it whenever I word processed. Very handy. I since have added a few subprograms from Jim Peterson's wonderful NUTS 'n BOLTS disk which will not appear in the succinct piece below.

Anymay, I'm not permitted to print the six original hunt programs, but if you have a copy of NORD SAFARI and/or some others you might want to try them out if you haven't used them for a while; then print out a copies of the listing.

Next type in a copy of WORD BUNT, try it out, and make some comparisons. This will give you a good idea of how I went about the task.

Think about some really good programs you recall from the past, dig them out, look them over, see if you can brighten them up, make them better. Sometimes it'll take drastic changes. Sometimes little. But in either case you've had some fun with some programs you probably would have left forgotten in a box in the closet. Now you can enjoy them all over again.

NOTE: When I first wrote the program I was going to write it in BASIC. After I translated quite a few line from my flowchart notes, I decided to go into XB. I continued with the PRINT and colon lines instead of DISPLAY AT statements until testing. It turned out to be fine and fast as it was, so I left them in. Those of you who'd like to tighten this even more, adding or changing features, send me a copy. If the improvements are really good, I'll print an update

in a future column. (Am also looking for original SHORT programs in XB for inclusion here with full credit.)

JACK SUGHRUE, Box 459, E.Douglas MA 01516

WORD HUNT

100 @=1 :: CALL CLEAR :: DIM A# (728), A (7), B# (25) 110 C\$="0" :: FOR B=@ TO 8 : : CALL COLOR(B,2,13) 120 NEXT B :: CALL CHAR(96," 0"):: GOSUB 200 :: PRINT " WORD HUNT PUZZLE ": : : : : : : : : :: PRINT " ^^^s trike^^^any^^key^^^" :: GOS 130 GOSUB 200 :: PRINT " WOR D HUNT PUZZLE ": : :: PRINT : :" CHOOSE" :: PRINT :" 1 SETUP (CHOOSE FIRST)" :: PRINT:" 2 INFUT PUZZLE" 140 PRINT :" 3 OUTPUT LIS T " 150 PRINT :" 4 OUTPUT ANS WER" :: PRINT :" 5 QUIT": : : : : 160 GOSUB 750 :: IF C<49 THE N 160 170 IF C>53 THEN 160 180 ON C-48 GOSUB 770,230,97 0,870,190 :: GOTO 130 190 CALL CLEAR :: STOP 200 CALL CLEAR :: CALL SCREE N(11):: CALL VCHAR(@,@,96,48):: CALL VCHAR(@,31,96,48):: FOR D=@ TO 8 210 CALL SOUND (-999, VAL (SEG# ("26226229433034939244049452 3587659698784", INT(12*RND+@) *3-2.3)),0,VAL(SEG\$("1311751 96", INT(3*RND+@)*3-2,3)),5) 220 NEXT D :: RETURN 230 GOSUB 200 :: PRINT " CHO OSE ":: PRINT:" 1 10 X10 PUZZLE":: PRINT:" 2 20X20 PUZZLE" :: PRINT : 25X25 PUZZLE": : : ::::::::: 240 GOSUB 750 :: IF C<49 THE N 240 250 IF C>51 THEN 240 260 E=(C-48)*10-5*[NT(C/51): : GOSUB 200 :: F=@ :: G=@ :: H=@ :: IF I=0 THEN 280 270 INPUT " TITLE OF PUZZLE? ":D\$:: INPUT " HOW MANY CO PIES? ":F 280 INPUT " HOW MANY WORDS? ":J :: IF J<26 THEN 300

290 PRINT "SORRY: 25-WORD MA XIMUM." :: 5010 280 300 FOR B=0 TO J-@ 310 INPUT " WORD "&STR\$(B+@) &" ? ":B\$(B):: IF LEN(B\$(B)) ⇒2 THEN 330 320 PRINT "SORRY: 3-LETTER M INIMUM." :: GOTO 310 330 IF LEN(B\$(B))<11 THEN 35 340 PRINT "SORRY: 10-LETTER MAXIMUM." :: GOTO 310 350 NEXT B 360 INPUT "ANY CHANGES? (Y/N) ":E\$:: IF E\$<>"Y" THEN 39 370 INPUT "WHICH NUMBER? ":B 380 INPUT "MAKE CORRECTIONS" :B\$(B-@):: 60TO 360 390 GOSUB 200 :: PRINT : : : THINKING..." :: A(O)=@ :: A(4)=-@ :: A(@)=E+@ :: A(5)=-A(@):: A(2)=A(@)+@ :: A(6) = -A(2):: A(3) = A(2) + 0:: A(7)=-A(3):: B=E+3 400 K=(E+2)^2-@-B :: FOR L=B TO K :: A\$(L)=" " 410 NEXT L :: M=E+2 :: K=M*M -M :: FOR B=Q TO K STEP M :: A\$(B)="**" :: A\$(B+E+@)="** " :: A*(B/M)="**" :: A*(K+B/ M)="**" 420 NEXT B :: K=0 :: FOR N=0 TO J-@ :: D=O 430 D=D+@ :: E\$=STR\$(D)&" " :: CALL HCHAR(23,25,ASC(E\$)) :: CALL HCHAR(23,26,ASC(SEG\$ (E\$,2,@))):: IF D<76 THEN 49 440 J=N :: GOSUB 200 :: PRIN T "SORRY: CAN ONLY SQUEEZE I N";STR\$(J);" WORDS.": : : : : :: PRINT " CHOOSE" :: PRIN T:" 1 USE ";STR#(J):"P RESENT LIST." :: PRINT:" BEGIN AGAIN": : : : : 450 GOSUB 750 :: IF C<>49 TH EN 470 460 GOSUB 200 :: PRINT " THINKING...": : : : : : 470 IF C=50 THEN 740 480 GOTO 450 490 B=INT(((E+2)^2-E)*RND)+E :: IF A\$(B)<>" " THEN 430 500 FOR 0=0 TO 7 510 IF KK8 THEN 530

520 K=0 530 L=B+A(K):: FUR P=2 10 LE N(B\$(N)):: IF L(E+2 THEN 570 540 IF A\$(L)<>" " THEN 570 550 L-L+A(K) 560 NEXT P :: GOTO 590 570 K=K+@ 580 NEXT 0 :: GOTO 430 590 L=B :: FOR P=@ TO LEN(B\$ (N):: A\$(L)=SEG\$(B\$(N),P,@):: A\$(L) = A\$(L) & A\$(L) :: L=L+A (K) 600 NEXT P :: K=K+@ 610 NEXT N 620 FOR B=0 TO (E+2)^2-@ :: IF A\$(B)<>" " THEN 640 630 A\$(B)=CHR\$(INT(26*RND)+6 5)&" " 640 NEXT B :: GOSUB 200 :: I F I=0 THEN 660 650 PRINT " P R I N T I N G" 660 FOR M=@ TO F :: IF I=0 T HEN 680 670 PRINT #I:CHR\$(27)&CHR\$(8 7)&CHR\$(@):::" ";D\$:" $AAAAAAAAAAA<math>_{1}$ 680 FOR B=0 TO E+@ :: PRINT #I:CHR\$(27)&CHR\$(87)&CHR\$(@) "::: FOR K=8*(E+2)TO (B +@) * (E+2) -@ :: FRINT #I:SEG\$ (A\$(K), 值, 值); 690 NEXT K 700 NEXT B 710 NEXT M :: IF Id>0 THEN 7 720 PRINT :" FRESS ANY KEY"::: GOSUB 750 730 PRINT #1:CHR\$(27)&CHR\$(8 7)&CHR\$(@)::: 740 RETURN 750 CALL KEY(0,C,Q):: IF Q<= 0 THEN 750 760 RETURN 770 GOSUB 200 :: FRINT " CHO OSE" :: PRINT :" 1 SCREE N" :: PRINT :" 2 PARALLE L PRINTER" :: PRINT :" OTHER": : : : : : : : : 1 1 1 1 1 780 GOSUB 750 :: IF C<49 THE N 780 790 IF C>51 THEN 780 800 I=0 :: IF C=49 THEN 860 810 I=@ :: F\$="FIO" :: IF C= 50 THEN 830 820 INPUT " DEVICE ? ":F\$ 830 IF C\$="0" THEN 850 840 CLOSE #@

850 OPEN #@:F\$.OUTPUT :: C\$= "1" 860 RETURN 870 GOSUB 200 :: IF I=0 THEN 890 880 INPUT "HOW MANY COPIES? ":G :: PRINT : : : "PRINTING ANSWERS. " 890 FOR M=@ TO 6 :: IF I=0 T **HEN 910** 900 PRINT #I: : : :" \$:" 910 FOR B=0 TO E+@ :: PRINT #I: :" ";:: FOR K=B*(E+2);T 0 (B+@)*(E+2)-@ :: PRINT #I: SEG\$(A\$(K),2,@); 920 NEXT K 230 NEXT B 940 NEXT M :: IF I<>0 THEN 9 60 950 PRINT :" PRESS ANY KEY"::: GOSUB 750 960 PRINT #I: : : :: RETUR 970 GOSUB 200 :: IF I=0 THEN 980 INPUT "HOW MANY COPIES? ":H :: FRINT : : : "PRINTING LIST." 990 FOR M=@ TO H :: IF I=0 T HEN 1010 1000 PRINT #I: : : :" Secretaria de destructorios de la 🛔 📲 D\$:" 1010 FOR B=0 TO J-@ :: PRINT #I:" ";B\$(B) 1020 NEXT B :: PRINT #I: : : 1030 NEXT M :: IF ICO THEN 1050 1040 PRINT " FRESS ANY KEY"::: GOSUB 750 1050 RETURN

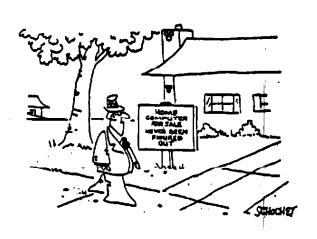
60 FORTY-NINERS!

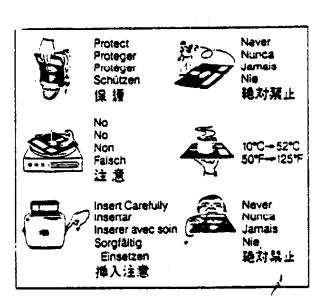
Υ JLOKSED S C Ξ \Box Z C G Z G В С R S H R R K S Ē. Ν 3 В Υ = U IC U G N Ε А Q Ε E K W G N UBF S I \Box S Τ 5 ٤ G WN В NNO A NA I G Ē Υ T G ₹ N Η \Box T Ρ Ш GEA С Ξ 3 K А Α N 3 11 S H \cap Ξ н L Υ GUET Н N A D R \Box а \Box KDU E Œ F. J м ш ж . [F E J Y Q 3 71 3 G В N M Ξ Ţ Z 1 Α J W Α IJ R \triangle \Box 3 11 Α Η K Х Α ML O P SBAPR Ē KQE нес S 5 N IRC ΕU םם ם J لِدا 2 B U BKI G,SWJHP IRARUOEGE A R 5 K

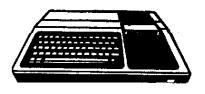
>>SUPERSOWL<<

WORD LIST **CHAINGANG** DEFENSE ELLAY ENCROACHMENT FLAG FORTYNINERS JCCKSTRAP LINEBACKER MONTANA CFFENSE OFFGIDES OUERTIME PUNT phandhh REPLAY RICE SHOULDERPADS SUPERDOME TACKLE TOUCHOOMN

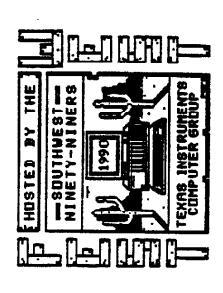
DIRECTIONS: There are
20 words hidden in the
nuzzle. You may find
them horizontally, vertically, or diagonally.
They may also be either
forward or backward.
Circle each word as you
find them. One word
has been done for you.
6000 LUCK!
(Answers on last page.)







I WMY TI:



Santa Rita Hotel, built in 1904 - recently refurbished 8570 Inn Downtown 1990 Broadway 602-791-75B1 Arizona WEST To be held at 88 East FEST Tucson, **D** Day HL Formerly

Room Reservation Request Form

- Reservations MUST be in by Jamuary 17, 1990

- Advance deposit for first night NUSF accompany your reservation requefer a telephone reservation, call 602-791-7581, ask for Olivia. Check in time is by 3:00 P.M., unless reservation is guaranteed.

E S T 8 2 1 0 2 8 RESERVATION SEQUISOR SECUI ROOM Days' Inp.

South Western Atmosphere - elegant and comfortable
Near Freeway (Interstate highway 1-10)
Restaurant - reasonable prices - indoor and outdoor dining
Arizona Stegedoedh from Mirport 18.25 per person

NAME OF Bouthwest 99'ers User Group GROUP: II Fest West 1990	DEPARTURE DATE DEPARTURE DATE
DATES OF 11 FEST WEST 1990, February 17 and 18, 1990	APPROXIMATE ARRIVAL TIME:
YOUR FULL NAME:	NAMER OF ROLLAWAY BED (5)
COMPANY NAME:	Bingle - I King bed - 544+to
STREET ADDRESS.	Refrigerator in room
CITY	Non-Smoking room
STATE: ZIP CODE:	TELEPIONE MIMBER:

FULL NAME(B) OF ADDITIONAL OCCUPANTS OF ROOM,

TO RESERVE A ROOM, SELECT ONE OF THE POLLOWING METHODS

CHEDIT CARD MUNDER (Master Card, Vies, American Express, Diners Club

CREDIT CARD INTERBANK NUMBER

響子 以上で

EXPIRATION DATE.

YOUR BIGNITURE:

(NO NOT BEND CASH THRU THE MAIL!!)

Continental Breakfast (included)
Euites available (extra cost)
Euites available (extra cost)
Guites for local phone cally
Cocktsis 2 free per adult per room - alcoholic or non-alcoholic
Bunes
Hot Therapy Pool
Bunes
Hot Therapy Pool
Evisating Pool
Transportation to/from Tucson Mall provided by Tucson Mall
Non-acching rooms (request)
Kuthers (refrigerator) in rooms (request)
Coffee makers in rooms (request)
Rollaways - additional 87 per rollaway per might

Well lift Seminar room may be included in same building (depending on 0 of vendors)

Conference Moom:
Separate building from botel
Easy access to emple perking
Restrocke in the building

Plenty of putlets

Phone 11ne

Tucson Historical Areas

Other restuarants

Greyhound Bus Depot Astrak Train Depot

Within welking distance, Public Transportation Tucson Art Museum night double/single (plus taxes)

est rooms - \$44 per might double/single Children under 18 free in perents room

** PUBLICATION NOTICE AND DISCLAIMER **

The OUT*POST, is published monthly, except in JULY and AUGUST of each year, by the NORTHERN NEVADA NINETY-NINERS USERS' GROUP (4N), a non-profit organization, supporting the TI-99/4A and compatibles. 4N is not affiliated with TEXAS INSTRUMENTS or their subsidiaries.

Any mention of a specific product in this newsletter does not constitute an endorsement.

Opinions expressed in this newsletter belong solely to the writer and does not necessarily reflect the views of the GUT*PBST, it's Editor, the 4N Users' group, it's officers or members.

Articles in this newsletter may be reproduced, provided they are not used for profit, and due credit is given to the author and the original source.

All 4N Users' Broup members are encouraged to submit articles, programs, tips, etc., for publication in this newsletter. Please, send your submittals to:

> 4N Newsletter Editor 3490 Golden Valley Road Reno, NV 89506

(Comments and letters are always welcome!)

11 4N BOARD MEMBERS 11

- Dic Slumaker - 673-2436 President Vice-President - Sandy Goetze - 827-3721 Secretary - Andy Yuan - 747-6325 - Richard Emblem - 786-9181 Treasurer - 358-2328 Program Librarian - Ed Conradt Newsletter Editor - Roland Chapman - 972-9209

Term of office, 12/88 - 12/90.

** MEMBERSHIP **

To join the Northern Nevada Ninety-Niners, an annual fee of \$20.00 (\$15.00 for newsletter ONLY subscription) is due and payable on or before the last Tuesday of each January. Membership includes a monthly newsletter, access to the Program and Paper libraries, and S.I.B.'s.

The following color-coded address labels serve as reminders to our subscribers/members regarding their active status with 4N:

GREEN highlight = Renewal fee due.
YELLOW highlight = Fee is 1 month overdue.
RED highlight = Fee is 2 months in arrears.
FINAL NOTICE!

** PROGRAM LIBRARY **

Disk programs are available from our library at the following rates:

SS/SD = \$2.00 DS/SD = \$4.00 (includes FLIPPIES.) DS/DD = \$6.00 Send disk, self-addressed postage-paid return mailer and check or money order with your specific request to:

4N Users' Group Attn: Program Librarian 5554 Mark Circle Sun Valley, NV 89433

DISKS of the MONTH

Two software programs on disk are featured each month at the general meeting, announced in advance via the newsletter. These disks are available to active memoers only at a discount rate of .50 cents each. To qualify for the special rate, they must be picked up in person during the evening of the meeting. No exceptions will be allowed.

PAPER LIBRARY

4N participates in an ongoing newsletter exchange program. Presently, we have over 25 Users' Groups on our mailing list. Active members are encouraged to check out these newsletters (maximum 5 issues) for a ONE MONTH period, and on a first-come, first-served, basis. There is no fee charged for this service. However, members are expected to return them to the paper library, in the same shape as they were received, within the alloted period. Failure to do so may jeopardize future membership priviledges. Please, be considerate of others.

S.I.S.'s (Special Interest Groups)

As the need arises by the membership for special instruction in order to develop the skills necessary for a particular software program or hardware item, a special interest group may be called upon by the President. This is not a formal meeting and is usually hald voluntarily at a member's home, where personal attention is readily available.

SUPPORT

4N supports the following vendors:

MICROpendium, P.O. 30x 1343, Round Rock, TX 73680 TEXCOMP 1-818-366-6631 TRITON 1-800-227-6900 TEXAMENTS 1-516-475-3480 ASSARD 1-703-255-3085

11 COMMERCIAL ADVERTISING RATES 11

Full Page - \$10.00 / Half Page - \$7.00

Quarter Page or Business Card - \$4.00

ALL RATES ARE FOR ONE 198UE CMLY'

Present circulation - 60 (As of 12/17/89)

** MEETING DATES **

Unless noted in the newsletter, 4N general meetings are held on the last TUESDAY of each month, at 7:00 F.M., at ROUND TABLE PIZZA, West 4th and Vine St., Reno. NV. Visitors are cordially invited to attend.

DALLAS II HOME COMPUTER GRP. P.O. BOX 29863 DALLAS, IX. 75229



SUM VARLEY NV BRAGES SERVED AND BRAGES AND PLANER MENTION OF SERVED AND SERVE



Answers to Superbowl Word Search

GE

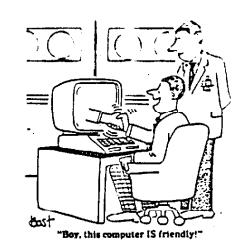
S K

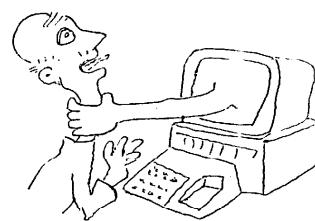
ΒК

ACHO

Ε

G





FINALLY, REAL COPY PROTECTION!