

SEPTEMBER 1988

The WEST JAX 99'ERS is a non-profit computer users group for the TI-99/4A Home Computer. NOT affiliated in any way with Texas Instruments. The club's mailing address is PO BOX 176 Orange Park Florida 32067.

MEETINGS are held on the Second and Fourth Tuesday of each Month in the auditorium of the Webb Library. It is located two lights west of Blanding Boulevard on 103rd Street. The first meeting of the month is the Business meeting with workshop time after adjournment. The second meeting is strictly workshop time.

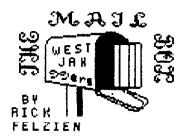
OFFICERS

President...Rick Felzien.....(904) 772-9162 Treasurer...Thomas LeMay....(904) 282-5220 Secretary...Ralph Glattli.....(904) 751-1308 Librarian....Zach Ziegler.....(904) 389-2194

For newsletter suggestions and submissions, contact Rick Felzien.

This month we have the regular mail box column and another Basic Assembler installment plus a nice article on the Font Writer II publishing program written by Richard Kotrba.

For those Exchange Newsletter Editors who may think tat they missed a couple of isues of our Newsletter, we did not have a January or an April issue. We are a small group, about 12 paid members and it is hard at times to obtain material to make a publication feasable.



Tidewater 99er's Jun 88

1. Info on Weathermation

2. Utility useful with save utility

Dallas Interface Jul 88

1. An articl on Compute mag.(rag?)

2. An interesting tinugram

Southern Nevada 99er's

1. Well written review of Lima faire

2. Hint for Star printer owners

Getting the most from cassettes

Charlotte Newsletter

1. Subroutine Extractor program

2. newsletter index

Victoria 99er's Mar/Apr 88

1. P-box dual drive mod,

Victoria 99er's May/Jun 83

1. F'web flowchart

2. list of available GROM's

Wordplay, Portland Or Jul 88

1. Easy multicolumn

2. Review of latest word processor

3. Read and Write, a nice program

4. Program to merge DU/80 files

Concept of arrays

SFU 99er times Jul 88

1. Remind Me us Memo It prog. review

2. Impact 99

LITI 99er's Jul 88

What is a nibble anyway?

2. :utting it all together *3

3. ExBasic tutorial *3

Kansas City 99er's Jul 88

1. Are you grounded?

2. Programs that write prog. *5

3. PR-Base bug report

4. Putting it all together *1

ROM newsletter Jun 88

l. And so forth

2. E/A accept at routine

3. PRBaseology

HUG newsletter Jun 88

1. TI-Writer tips #2

2. Back to basics

Central Pa 99'ers Jul 88

1. Review of TI-Base

2. A poor man's loader

3. TI-Writer #7

Wordplay Aug 88

Super maze program
 Partial files in TI-writer

3. High Res graphics *5

Relational expressions

5. Mystery program

N.O.V.A. Jul 88

1. Customizes forms in Graphx

2. Review of Plus!

West Penn 99'ers Jul 88

1. Let's talk Ramdisks *7

2. Pascal article

3. The UCR connection

Cleveland 99'ers Jul/Aug 88

1. Review of TI-Base

2. Plus! article

3. Impact 99

4. Clock/Calandar project

5. Review of Picture It

TICO topics Jul 88

1. Bypassing 16 bit bus wait state

ROM newsletter Jul 88

1. Assembly Windows and Invers Video

2. And so forth

Ozark 99'ers Aug/Sep88

1. TI-Writer tips

2. DIY surge protector

Boston Computer Society Jul 88

Review of Myarc ramdisk

2. E/A music program

3. Intro to Pascal

4. List of books for the 99/4A

The Computer bridge Jul 88

- Bluegrass 99er Sep 88 1. Article, prog, on G-Graphic
 - 2. Print Stylist sets up printer

Southwest 99er Sep 88

- 1. Trigonometry-computer applications
- 2. Children's corner

West Penn 99er Aug 88 1. Pascal/P-code article

- 2. 2-way communications in EXBasic
- 3. TI Exploits Pt.1
- 4. TI-Articst to TI-Writer, prog. 5. Review of TI-Base

Philadelphia area 99er Jun/Jul 88

- 1. Review of G-Graphic
- 2. What's next for the TI community

Bluegrass 99'ers Jul 88 1. BigBucks program set

LITI newsletter Aug 88 1. EXBasic tutorial from F'web Farm

Erie 99er Aug 88

- 1. Elements of Basic Pt. 21
- Name that phone (tinygram)
 TI-Writer tip

- 4. A unique Dec. to binary prog.
- 5. Getting most from cassettte sys.

Pittsburg 99er Aug 88

1. Starting a new FORTH series

2. Tips for beginners

3. Getting most from cassette sys

North Jersey 99'ers Jul 88

- Lightning protection
 customizing F'web

Delarare Valley 99'ers Jun 88 1. Interesting interfacing articles

2. About screen dumps

SFONT WRITERII

PART 2

FONT WRITER II IS WRITTEN IN EXTENDED DAGIC AND IT CONSISTS OF 9 MAIN SECTIONS. HERE IS A BRIEF DESCRIPTION OF EACH SECTION.

- 1.FDITOR THIS PART ALLOWS THE CREATION AND MODIFICATION OF FONTS, IMAGES AND EVEN-SPRITES.
- 2.FORMATTER THIS IS A SPECIAL FORMATTER TO FORMAT BOTH TEXT AND GRAPHIC FILES.
- 3.MANAGER THIS IS A DISK MANAGER SYSTEM TO CATALOG, COPY AND DELETE FILES. IT ALSO HAS THE ABILITY TO CONVERT BETWEEN CSGD AND TI-ARTIST FONTS AND PICTURES.
- 4.DISK DUMP THIS IS A VERY HANDY UTILITY THAT WILL PRODUCE A PRINT OUT OF EVERY CHARACTER IN ALL FONTS ON A DISK. THIS CREATES HANDY REFERENCE SHEETS.
- 5.BANNER CREATES BANNERS IN VARIOUS SIZES FROM ANY CSGD FONT.
- 6.TI-WRITER EDITOR -- WORKS LIKE THE REGULAR TI-WRITER EDITOR WITHOUT THE SHOW DIRECTORY FUNCTION.
- 7.TT-WRITER FORMATTER -WORKS THE SAME AS THE REGULAR TI-WRITER FORMATTER.
- 8.UTILITY LOADER -ALLOWS THE LOADING OF ANY EDITOR/ASSEMBLER 5 (E/A 5) PROGRAM SUCH AS DM1000.
- 9.DEFAULTS WRITES THE DEFAULTS OF YOUR PARTICULAR SYSTEM TO DISK SO THAT THEY DON'T HAVE TO BE TYPED IN EACH TIME. THESE INCLUDE PRINTER ACCESS CODES AND DISK DRIVE NUMBERS.
- 1.EDITOR IS THE MOST COMPLEX SECTION AND THE MAJORITY OF THE DOCUMENTATION THAT COMES WITH THE PROGRAM DEALS WITH THE SECTION. I FOUND, HOWEVER, THAT THE 2.FORMATTER SECTION IS THE BEST PLACE TO START. THE FORMATTER USES TI-WRITER FILES OR IT CAN BE USED IN THE IMMEDIATE MODE. TO GET TO THE IMMEDIATE MODE, CHOOSE 2.FORMATTER FROM THE MAIN MENU. WHEN "FONT FILE" APPEARS, PRESS ENTER. WHEN "INPUT FILE" APPEARS, PRESS ENTER AGAIN. YOU WILL NOW BE IN THE IMMEDIATE MODE.

USE THE DOT COMMANDS WHICH ARE EMPLATHED NEXT.

FONT WRITER II USES DOT COMMANDS (.) TO GIVE INSTRUCTIONS TO THE PROGRAM. THE DOT IS FOLLOWED BY 2 LETTERS. IN SOME CASES THERE ARE OPTIONS AND THE FORMAT IS DOT, FOLLOWED BY 2 LETTERS, FOLLOWED BY A SPACE, FOLLOWED BY THE OPTION. THE DOT COMMANDS CAN BE GROUPED INTO FOUR, CATAGORIES.

- 1.TI-WRITER COMMANDS USED BY FONT WRITER II
- 2.GRAPHIC AND GRAPHIC/FONT COMMANDS
- 5.EXTERNAL FILE COMMANDS
- 4.OTHER COMMANDS

HERE ARE THE COMMANDS THAT ARE IDENTICAL TO TI-WRITER COMMANDS

- 1 .FI (FILL -EXPANDS THE SPACING BETWEEN WORDS SO THAT THE LINE FILLS THE SPACES BETWEEN MARGINS.)
- 2 .NF (NO FILL -WORDS WILL PRINT AS TYPED, MARGIN SETTINGS ARE IGNORED:)
- 3 .AD (ADJUST -ADJUSTS LINES OF GRAPHICS SO THAT RIGHT MARGIN IS EVEN. REQUIRES THAT .FI COMMAND IS USED FIRST.)
- 4 .MA (TURNS OFF ADJUST COMMAND.)
- 5 BP (STOPS THE PRINTING ON ONE PAGE, ANY OTHER TEXT OR GRAPHICS WILL PRINT ON THE NEXT PAGE.)
- 6 .CE n (CENTERS PRINTER TEXT, GRAPHICS TEXT AND GRAPHICS ON A LINE, THE NUMBER OF LINES CENTERED IS DETERMINED BY THE NUMBER (n).
- 7 .IN n (INDENT THE FIRST LINE OF EACH PARAGRAPH BY THE NUMBER(n). IF (n) IS NEGATIVE THE FIRST LINES WILL BE OUTDENTED IF POSSIBLE.)
- 8 .LM n (SETS THE LEFT MARGIN (n) SPACES. FIRST SPACE IS NUMBERED O. NOT 1.)
- 9 RM n (SETS THE RIGHT MARGIN.)
- 10 .LS (LINE SPACING, THIS IS THE NUMBER OF SPACES BETWEEN EACH LINE.)
- 11 .SP n (NUMBER OF BLANK LINES, WORKS ONLY ONCE EACH TIME IT IS USED.)
- 12 .PL n (PAGE LENGTH -SETS NUMBER OF LINES THAT WILL BE PRINTED BEFORE THE PAPER IS ADVANCED TO THE NEXT PAGE.)
- 13 .CO (COMMENT -USED TO PLACE COMMENTS IN FILE, USED LIKE A REM STATEMENT.)
- 14 .IF (INCLUDE FILE -USED TO ADD OTHÉR FILES TO BE MERGED IN. CORRECT FORMAT IS .IF DSKn.FILENAME)
- 15 .BL n (BLANK LINES -SETS THE NUMBER OF BLANK LINES THAT WILL BE PRINTED BETWEEN PAGES.)
- 16 .GR (PLACES THE PROGRAM IN GRAPHICS MODE, THIS IS THE MODE THE PROGRAM IS IN WHEN IT IS STARTED. THE .GR COMMAND WOULD BE USED TO RETURN FROM TEXT(.TX) MODE.)
- 17 .II (INCLUDE TMAGE -PLACES AN IMAGE AT CURRENT LEFT MARGIN. RESPONDS TO THE CENTER COMMAND (.CE), PROPER FORMAT IS .II DSKn.FILENAME)
- 18 .IL n (IMAGE LEFT -SETS THE LEFT MARGIN OF AN IMAGE USED WITH TEXT. USED WITH THE .IM COMMAND.)
- 19 .IM (IMAGE MERGE -USED WHEN AN IMAGE IS PLACED ON THE SAME LINE AS GRAPHIC/TEXT. CAN BE USED WITH .IL n COMMAND. CORRECT FORMAT IS .IM DSKn.FILENAME. FILENAME MUST BE AN IMAGE FILE AND END WITH _I.)
- 20 .IC (IMAGE COMPLETE -INSURES THAT THE IMAGE IS COMPLETED WHEN USING THE IMAGE MERGE COMMAND.)

- 21 .IR (IMAGE ROW -PRINTS A ROW OF A SINGLE IMAGE ACROSS THE PAGE.)
- 22 .IP (INCLUDE PICTURE -PRINTS A TI-ARTIST OR GRAPHX PICTURE. FORMAT IS .IP m,DSKn.FILENAME_P WHERE m=THE LEFT MARGIN OR .IP DSKn.FILENAME_P)
- 23 .GI ON/OFF (GRAPHICS INVERT -.GI ON REVERSES IMAGE COLORS. .GI OFF RESETS COLORS.)
- 24 .FR ON/OFF (FRAMES GRAPHICS USED WITH .II, .IR OR .IP COMMANDS. PUTS A FRAME AROUND THE IMAGE OR PICTURE. USED WITH .FSn COMMAND AND AFFECTED BY .F. THE .BI COMMAND.)
- 25 BB (BEGIN BOX -STARTS A BOX ON THE PAGE, UP TO 8 BOXES CAN BE OPEN AT ANY ONE TIME, PROPER FORMAT IS BB n,s, 1m, rm WHERE n=BOX NUMBER(1 TO 8),s=BOX STYLE (1-6),1m=LEFT MARGIN,rm=RIGHT MARGIN. NOTE-NO TWO BOXES CAN BEGIN OR END ON THE SAME LINE.)
- 26 .BE n (BOX END -DRAWS THE BOTTOM OF THE BOX. n=BOX NUMBER USED IN .BB NOTE THE SIDES OF A BOX WILL CONTINUE TO BE DRAWN UNTIL .BE n IS USED.)
- 27 .BI ON/OFF (PRINTS ALL BOXES AND FRAMES IN INVERSE WHEN .BI ON IS USED.)
- 28 .LF (LOAD FONT -LOADS THE GRAPHIC FONT INTO MEMORY, WILL LOAD BOTH TI-ARTIST AND CSGD FONTS, PROPER FORMAT IS ,LF DSKm.FILENAME. FOR TI-ARTIST FONTS THE FILENAME ENDS WITH /CH.)
- 29 .CS n (CHARACTER SPACING -PLACES EXTRA SPACES BETWEEN FONT CHARACTERS, AMOUNT OF SPACING DEPENDS ON NUMBER GIVEN TO n.)
- 30 .DS ON/OFF (DENSITY ON/OFF -USED FOR SINGLE AND DOUBLE DENSITY PRINTING OF FONTS AND GRAPHICS. THIS COMMAND WILL CONDENSE PRINT IMAGES AND FONTS. USE WITH THE FOLLOWING COMMAND TO RETURN TO NORMAL WIDTH.)
- 31 .DB ON/OFF (DOUBLE WIDTH ON/OFF -USED TO PRINT A FONT OR IMAGE IN DOUBLE , WIDTH.)
- 32 .TI ON/OFF (USED TO INVERT THE TEXT COLORS.)

THESE ARE THE EXTERNAL FILE COMMANDS.

- 33 .OX DSKm.FILENAME_X (THIS COMMAND DIRECTS THE GRAPHICS AND GRAPHIC/FONTS TO AN EXTERNAL FILE RATHER THEN TO THE PRINTER.)
- 34 CX (CLOSES THE EXTERNAL FILE OPENED WITH THE LOX COMMAND.)
- 35 .IX DSKn.FILENAME_X (INCLUDES AN EXTERNAL FILE THAT WAS CREATED WITH THE .OX COMMAND INTO THE FILE BEING CREATED.)

OTHER COMMANDS ARE:

- 36 .TX (TEXT-ALLOWS THE PRINTERS FUNTS TO BE USED.)
- 37 .DF m,DSKn.FILENAME (DUMP FILE-THIS PRINTS THE FILE EXACTLY AS WRITTEN. THE m DETERMINES THE LEFT MARGIN.)

38 .KB n (KEYBOARD ENTRY-ALLOWS THE INSERTION OF INSTRUCTIONS FROM THE KEYBOARD. THE n INDICATES HOW MANY LINES WILL BE ENTERED FROM THE KEYBOARD.)

39 .ME (PRINTS ANY MESSAGE TYPED AFTER THIS COMMAND ON THE SCREEN. THIS COMMAND DOES NOT DIRECT THE MESSAGE TO THE PRINTER. IT IS USED AS A PROMPT FOR KEYBOARD ENTRIES.)

40 .QU (QUIT-USED TO EXIT THE IMMEDIATE MODE.)

AS YOU CAN SEE, THIS IS A VERY FLEXIBLE PROGRAMMING ENVIRONMENT. NEXT TIME WE'LL COMBINE SOME OF THE COMMANDS TO PRODUCE MIXTURES OF GRAPHICS AND TEXT.

RICHARD KOTRBA...WEST JAX 99'ERS USER GROUP.

THE BASIC ASSEMBLER #4 By Sleve Peacock

DEMONSTRATION OF HOW TO USE THE JOYSTICK

This month I am presenting a program that will demonstrate how to use the joysticks. Two new codes are introduced, they are KSCAN and MOVB. KSCAN is the routine that reads the joysticks. It will also read the keyboard. MOVB stands for MOVe Byte. This command moves the left (most significant) byte of a word. For example the command -MOVB @>8374,R1- will move the left (most significant) byte that is in the address >8374 into the left (most significant) byte of R1. The value in >8374 is not changed. This is used when you want to compare two values, as you can see in this months program.

If you have an assembly program written for the MINI-MEMORY and want to type it in using the EDITOR/ASSEMBLER, you will have to convert some numbers to mnemonics. Below is a table that lists the changes.

MINI-MEMORY	EDITOR/AS	SSEMBLER
>6018	GPLLNK	Link to GROM Routine
>601C	XMLLNK	Link to ROM Routine
>6020	KSCAN	Neyboard Scan
>6024	VSBW	VDP Single Byte Write
>6028	VMBW	VDP Multiple Byte Write
>602C	VSBR	VDP Single Byte Read
>6030	VMBR	VDP Multiple Byte Read
>6034	VWTR	VDP Write to Register
>6038	DSRLNK	Link to Device Service Routine
>603C	LOADER	Tagged Object Loader
>6040	NUMAS6	Numeric Assignment Routine
>6044	NUMBEF	Get Numeric Parameter
>6048	STRASG	String Assignment Routine
>6 04C	STRREF	Get String Parameter
>6050	ERR	Error REporting Routine

For example if you had a line that looked like this -BLWP @>6024-, it would be changed to -BLWP @VSBW-, for the EDITOR/ASSEMBLER.

```
*PROGRAM BA4A==>Basic Assembler #4 Assembly Version
*DEMONSTRATION OF HOW TO USE THE JOYSTICK
*(C)1985 S. PEACOCK
KSCAN. VSRW
                  *KEYBOARD SCAN/WRITE SINGLE BYTE TO SCREEN
     DEF
        START
                  *START OF PROGRAM
START
     L I
        RO,300
                  *START POSITION TO PRINT 'X'
                  *LOAD HEX CODE FOR 'X' INTO REG. 1
     LI
        R1.>5800
     BLWP @VSBW
                  *PRINT 'X'
                  *>0100 FOR JOYSTICK NUMBER 1 (>0200 FOR JOYSTICK #2)
     LI
        R1,>0100
     MOVB R1,@>8374
                  *MOVE LEFT BYTE (>01) INTO THE ADDRESS >8374 (KSCAN)
     BLWP @KSCAN
                  *BRANCH TO KEYSCAN ROUTINE
     CLR
        R1
                  *CLEARS REG. 1 WHERE THE VALUE >8376
******* **** ZERO WILL BE FLACED. RIGHT BYTE ZERO WILL BE ZERO FOR
************************
                  *CHECK 'Y' RETURN. WHEN THE JOYSTICK IS USED THE 'Y'
     MOVB @>8376.R1
R1,>0400
                  *IF 'Y' PETURN >04 THEN JOYSTICK PUSHED UP
     CI
       T1
                  *JUMP TO NEXT COMPARISION IF 'Y' RETURN NOT
     JNE
*TO SEE IF TOP BORDER IS HIT. THE LARGEST POSITION
        RO.32
     CI
*IF TOP BORDER HIT GO DACK TO MAIN LOOP AND READ KSCAN
     JLT LF
     L. I
        R5,>2000
                  *IF NOT HIT, LOAD 'SPACE'
                  *PRINT 'SPACE'
     BLWP @VSBW
     ΑI
        R0,-32
                  *DECREASE PRINT POSITION ONE ROW
     JMP
        F'G
                  *JUMP TO PRINT
                  *IF 'Y' RETURN >FCOO THEN JOYSTICK PUSHED DOWN
T 1
     CI
        R1,>FC00
                  *JUMP TO NEXT COMPARISION IF 'Y' RETURN NOT
     JNE
        T2
*TO SEE IF BOTTOM BORDER IS HIT. THE SMALLEST POSITION
     CI
        RO,735
*IF HIT GO BACK TO MAIN LOOF AND READ KSCAN
     JGT
        LF
                  *IF NOT HIT LOAD 'SPACE'
     LI
        R5,>2000
                  *PRINT 'SPACE'
     BLWP @VSBW
                  *INCREASE PRINT POSITION ONE ROW
        RO.32
     ΑI
     JMP
        PG
                  *JUMP TO PRINT
                  *CHECK 'X' RETURN, WHEN THE JOYSTICK IS USED THE 'X'
     MOVE @>8377.R1
*IF 'X' RETURN >0400 THEN JOYSTICK PUSHED RIGHT
     CI
        R1,>0400
                  *JUMP TO NEXT COMPARISION IF 'X' RETURN NOT
     JNE
        T3
*SEE
                       ISTART AT TOP RIGHT FOSITION COMPARE THIS VALUE
     LI
        R8,31
                       IWITH THE VALUE OF REG O (THE MAIN PRINT
        RO.RB
                  *15
Fil...
     С
                  *RIGHT (POSITION) IF EQUAL JUMP OUT OF THE LOOP. IF
     JEQ
        LF
     ΑI
        R8,32
                  *WALL
                       INOT ADD 32 (1 ROW) AND COMPARE. DO THIS
                       :UNTILL THE BOTTOM RIGHT CORNER IS REACHED.
     CI
        RB.768
                  *IS
                       LIF NO HIT, LOAD A 'SPACE' AND PRINT
     JLT
        RL
                  *HIT
     LI
        R5,>2000
                  *LOAD 'SPACE'
     BLWP @VSBW
                  *FRINT 'SPACE'
     INC
        R0
                  *INCREASE PRINT POSITION ONE COLUMN
```

```
*JUMP TO FRINT
       JMP
            PG
13
       CI
            R1,>FC00
                          *IF 'X' RETURN >FCOO THEN JOYSTICK PUSHED LEFT
       JNE
            LF
                          *JUMP TO TO MAIN LOOP. NO OTHER COMPARISON TO MAKE.
       LI
            RO.O
                                ISTART AT TOP LEFT POSITION COMPAIR THIS VALUE
L.L.
       C
                                  IWITH THE VALUE OF REG O (THE MAIN PRINT
            RO.RS
                          *IF
       JEQ
            L.F
                          *LEFT
                                  (POSITION) IF EQUAL JUMP OUT OF THE LOOP. IF
       AT
            R8,32
                          жыдгі
                                  INDT ADD 32 (1 ROW) AND COMPARE. DO THIS
                                  FUNTILL THE BOTTOM RIGHT CORNER IS REACHED.
       CI
            R8,737
                          *IS
       JLT
            LL
                          *HIT
                                  HIF NO HIT LOAD A 'SPACE' AND PRINT.
       LI
            R5,>2000
                          *LOAD 'SPACE'
       BLWP GYSBW
                          *PRINT 'SPACE'
       DEC
                          *DECREASE PRINT POSITION ONE COLUMN
            F0
F'G
       L. I
            R1,>5800
                          *ASCII CODE FOR 'X'
       BLWP @YSBW
                          ★萨氏【四丁 "X"
            R4,4000
*
       L. I
                          *A SHORT ITO SLOW DOWN THE PROGRAM
*
       DEC
            R4
                                    TREMOVE THE THREE ASTERICKS.
                          *DELAY
       JNE
            $-7
                          XLOOP.
                                    •
       JMP
                          *BACK TO READ JOYSTICK AGAIN
            LF'
       END
```

```
100 REM PROGRAM BA4B => Basic Assembler #4 Basix Version
110 REM DEMONSTRATION OF HOW TO USE THE JOYSTICK
120 REM (C)1985 S. PEACOCK
130 REM YOU MAY WANT TO PUT IN A 'CALL CLEAR' HERE
140 H=10
150 C=13
160 CALL HCHAR (R.C.88)
170 CALL JOYST (1, X, Y)
180 IF Y<>4 THEN 230
190 IF R=1 THEN 170
200 CALL HCHAR(R.C.32)
210 R=R-1
220 GOTO 370
230 IF Y<>-4 THEN 280
240 IF R=24 THEN 170
250 CALL HCHAR(R,C,32)
260 R#R+1
270 GOTO 370
280 IF X<>4 THEN 330
270 IF C=32 THEN 170
300 CALL HOHAR(R,C,32)
310 C=C+1
```

320 GCTO 370

380 GOTO 170

360 C=C-1

390 END

330 IF X<>-4 THEN 170 340 IF C=1 THEN 170 350 CALL HCHAR(R,C,32)

370 CALL HCHAR(R,C,88)