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Sitting in this month for Mr. McDonald is your "old" editor Harley Harlingten Any opinions expressed by Mr. Harlingten are his, and may not be the same as the user group.

Well group here I am this month, and if your editor isn't back next month, I guess I will be here again.

As you may or may not know, I have been away from the TI for a while spending a lot of time at work. While my work requires me to spend a lot of time in a IBM Clone, I seem to always come back to the trusty TI.

Spending hours and hours looking at a manachrome screen, I miss the color. I had the option of having color for my clone (the low end CGA) but chose to keep monochrome because it has a better resolution than the CGA. But neither compares to the TI (at least in my book).

Well on to other things.

in this months edition you will find some articles I have found interesting from other newsletters we have received from other user groups.

I thought I might mention, at this time, a new product that has just been released. The Gramulator, this is a new piece of hardware that plugs into the module port and lets you do such things as dump modules to disk, alter the TI welcome screen and much more. If you really want to know what this is, I suppose it could best be compared to the Gram Kracker, but it has some different features. If you want to get into the "Inner Workings" of your TI, this is for you.

The price seems to be fair at about \$185 and is manufactured by:
CaDD Electronics
52 Audubon Road
Haverhill, MA 01830

Here once more someone has taken the time to go out and create something for the II community which will keep this poor little orphan going for many, many years to come.

You know, I just thought of something, I think Texas Instruments didn't know what they had created. Sure this little machine can not now or ever be able to do some of the things that todays computers do but, none of them have the user friendliness and feel that the TI has. I have said it many times before, I will never abandon my TI, It has never failed or abandoned me.

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TIGERCUB CARE DISKS #1, #2 & #3, three full disks of text files, mostly of lessons on programming in XBasic, \$5 per disk postpaid.

This one is explained in lines 180-190. I think that it will run on any Gemini printer.

100 DIM B(25,12), B\$(25), CH\$(12),L\$(12) 110 GOTO 150 120 S,K,T*,C*,V,J,A,CH*(),X, X\$,B\$(),B(X,J),T,M,Q\$,L\$().C ,C1*,C2*,L,M\$ 130 CALL CLEAR :: CALL COLOR :: CALL SCREEN :: CALL CHAR :: CALL KEY :: CALL NUMTH 140 !@P-150 !SEGMENTED BAR GRAPH by Jim Peterson 10/87 160 CALL CLEAR :: FOR S=1 TO 12 :: CALL COLOR(5,2,8):: N EXT S :: CALL SCREEN(5):: DI SPLAY AT(3,10): "TIGERCUB" :: DISPLAY AT (5,6): "SEGMENTED BAR GRAPH" 170 CALL CHAR (95, "3C4299A1A1 99423C"):: DISPLAY AT(7,12): "_ 1987" :: DISPLAY AT(9,2): "For free distribution but n O": "price or copying fee may be": "charged." 180 DISPLAY AT(14,2):" Will output to a Gemini": "printer a horizontal bar-": "graph o f up to 25 bars, each":"segm ented into up to 12" 190 DISPLAY AT(18,1); "values , with a title for": "each an d optionally with a":"table of identification of":"the s eqment symbols." 200 DISPLAY AT (24,8):"" :: D ISPLAY AT(24.8): "FRESS ANY K EY" :: CALL KEY(0, K, S):: IF S=0 THEN 200 210 ON WARNING NEXT 220 DISPLAY AT(12,1)ERASE AL L: "GRAPH TITLE?" :: ACCEPT A T(14,1):T\$:: T\$=RPT\$(" ".17 -LEN(T+)/2)&T+ :: C+=CHR+(27 230 DISPLAY AT(16,1): "HOW MA NY SEGMENTS PER BAR?" :: ACC EPT AT(16,27) VALIDATE(DIGIT) SIZE(2):V :: IF V=0 OR V>12 **THEN 230** 240 !@P+ 250 DATA 239,229,168,251,173 ,175,184,236,169,250,160,207 260 !@P-270 FOR J=1 TO V :: READ A : : CH*(J)=CHR*(A):: NEXT J

280 DISPLAY AT (3,1) ERASE ALL t"Type END when finished" 290 X=X+1 :: IF X>25 THEN 33 300 CALL NUMTH(X,X\$):: DISPL AY AT(12,1): "Title of "&X\$&" bar?" :: ACCEPT AT(14,1):B\$ (X) : I IF B\$ (X) = "END" OR B\$ (X)="end" THEN 330 310 FOR J=1 TO V :: CALL NUM TH(J, X\$):: DISPLAY AT(16.1): X\$&" segment value?" :: ACCE PT AT(18,1) VALIDATE(NUMERIC) :B(X,J):: T=T+B(X,J):: NEXT 320 M=MAX(M,T):: T=0 :: GOTO 330 X=X-1 :: DISPLAY AT(20,1):"Print labels? Y/N" :: ACC EPT AT (20, 19) VALIDATE ("YN") 8 IZE(1):Q\$:: IF Q\$="N" THEN 340 FOR J=1 TO V :: CALL NUM TH(J, X\$):: DISPLAY AT(22.1): X*&" label?" II ACCEPT AT(24 ,1):L#(J):: NEXT J 350 C=120/M :: C1\$=C\$&"B"&CH R# (1) %C#%"G"%C#%"E" | : C2#=C \$&"B"&CHR\$(3) 360 OPEN #1: "PIO", VARIABLE 2 55 :: PRINT #1:C\$&"@" :: PRI NT #1: C\$&"E"&C\$&"G"&C\$&"M"&C HR\$(6) 370 PRINT #1:CHR\$(14)&T\$&CHR \$(20): "": RPT\$(CHR\$(229).70): j: :: PRINT #1:C\$&"3"&CHR\$(1 300 FOR J=1 TO X :: PRINT #1 :B\$(J)&C2\$:: FOR L=1 TO V : : Ms=Ms&RPTs(CHs(L), INT(B(J, L)#C+.5)):: NEXT L 390 PRINT #1:RPT\$(CHR\$(232), LEN(M\$)):: PRINT #1:M\$:: PR INT #1:M\$:: PRINT #1:RPT\$(C HR\$(231),LEN(M\$)) . 400 M\$="" :: PRINT #1:C1\$::: NEXT J :: IF Q = "N" THEN ST 410 PRINT #1:"":"" 420 FOR J=1 TO V :: PRINT #1 :C2#\$RPT#(CHR#(232),10):: PR INT #1:RPT\$(CH\$(J).10)&C1\$&" "&L\$(J):: PRINT #1:02\$& RPT\$(CH\$(J),10):: PRINT #1:R PT\$(CHR\$(231),10):: NEXT J 430 !@P+ 440 SUB NUMTH(N, N\$):: IF FLA G=1 THEN 520 :: FLAG=1 :: RE **STORE 480** 450 GOTO 480

460 J, ONE+(), TEEN+(), TEN+(), 470 !@P-480 DATA first, second, third, fourth, fifth, sixth, seventh, a ighth, ninth, tenth 490 DATA eleventh, twelfth, th irteenth.fourteenth.fifteent h, sixteenth, seventeenth, eigh teenth, nineteenth 500 DATA twenty, THIRTY, FORTY ,FIFTY,SIXTY,SEVENTY,EIGHTY, 510 FOR J=1 TO 10 :: READ ON E\$(J):: NEXT J :: FOR J=1 TO 9 :: READ TEEN#(J):: NEXT J :: FOR J=2 TO 9 :: READ TEN \$(J):: NEXT J 520 IF N<11 THEN NS=ONES(N): : SUBEXIT 530 IF N<20 THEN N=TEEN+(N-10): SUBEXIT 540 IF N/10=INT(N/10) THEN N\$ =SEG\$ (TEN\$ (N/10), 1, LEN (TEN\$ (N/10))-1)&"imth" :: SUBEXIT 550 N==TEN=(INT(N/10))&"-"&0 NE\$((N/10-INT(N/10)) *10) 560 ! RP+ 570 SUBEND

And a little something educational -

100 DIM M\$(100) 110 GOTO 150 120 S,J,M\$(),A\$,Z\$,K,W\$(),X, Y, ADV\$, A, Q\$ 130 CALL CLEAR :: CALL COLOR :: CALL SCREEN :: CALL CHAR :: CALL KEY :: CALL ADVERB 11 CALL SOUND 140 !@P~ 150 CALL CLEAR :: FOR S=0 TO 12 :: CALL COLOR(S, 2, 8):: N EXT S :: CALL SCREEN(5):: DI SPLAY AT (3,2): "ADJECTIVE TO ADVERB V.1.3" 160 CALL CHAR(64, "3C4299A1A1 99423C"):: DISPLAY AT(5,6):" @ Tigercub Software":;:" For free distribution with no charge or copying fee." 170 FOR J=1 TO 100 :: READ M \$(J):: A = A & CHR & (J):: NEXT J :: Z*=A* :: CALL KEY(3,K,S 180 W\$(1)=" If adjective end change the Y to ILY." :: W\$(2)=" If adjectiv e ends in C. add ALLY."

190 W#(3)=" If adjective end s in LL, just add Y." 200 W\$(4)=" If adjective end s in LE. preceded by a con drop the E and ad monant, d Y." 210 W\$(5)=" If the word ends in E preceded by a consonant. preceded by a vow el, just add LY." 220 W\$(6)=" This word is an exception to the rule - the adverb is WHOLLY." 230 W#(7)=" If the adjective does not end in C.E.LL or Y, always just add LY." 240 W\$(8)=" This is an excep tion to the rule. The prefer red adverb form is DRYLY." 250 W#(9)=" If the adjective ends in E preceded by a vo wel, drop the E and add LY 260 W\$(10)=" If the adjective e ends in E preceded by a co nsonant other than L, ad d LY." 270 RANDOMIZE :: X=INT(RND*L EN(Z\$)+1):: Y=ASC(SEG\$(Z\$,X,1)):: Z\$=SEG\$(Z\$,1,X-1)&SEG\$ (Z\$, X+1, 255): IF LEN(Z\$)=0 THEN Z\$=A\$ 280 ACCEPT AT(24,1):M\$(Y) 290 CALL ADVERB(M\$(Y),ADV\$.A 300 DISPLAY AT(12,1):" Type the adverb form of -" :: DIS PLAY AT(15,1):M\$(Y):: DISPLA Y AT(18,10):"" :: ACCEPT AT(15.15) BEEP: Q\$ 310 IF Q\$=ADV\$ THEN DISPLAY AT(18,10):"CORRECT!" :: GOTO 320 CALL SOUND(100,110,5,-4, 5):: DISPLAY AT(20,1):WE(A): "":"" :: GOTO 300 330 !@P+ 340 DATA DUE, COOL, SOLE, STOIC ,FRANTIC,COMIC,ABLE,FULL,POO R, HANDY, SORE, SOCIAL, PENAL, SL OW. HIGH. LOW 350 !@P~ 360 DATA FRISKY, PLAYFUL, HEAL THY, ROUGH, BUSY, SILLY, SICK, SM ART, SORE, FAIR, ANGRY, BARE, TIR ED, WISHFUL, ACTUAL 370 DATA HASTY, LONE, HECTIC, D FFICIAL, MAGIC, MAGICAL, MATHEM ATIC, LOGIC, TRAGIC, PATHETIC, T RAUMATIC

16,

380 DATA DRAMATIC, AUTOMATIC, AROMATIC, EQUAL, SERIAL, BASIC, USUAL, FAVORABLE, UNSTABLE, LEG IBLE 390 DATA HECTIC, LIVE, WARY, VI SIBLE, TERRIBLE, HORRIBLE, VIVI D, FANCY, EASY, VILE, WICKED, BLO ODY, SHODDY 400 DATA NOBLE, HAPPY, LEGAL, M ERRY, JOLLY, CRAZY, CASUAL, CARE FUL, FOOLISH, FAMOUS, GAY, GUILT 410 DATA HOPEFUL, HATEFUL, TIM ID, BRAVE, BEAUTIFUL, DRY, NICE, LARGE, PAINFUL, SINFUL, SORROWF UL, SIMPLE, WILLFUL 420 DATA MENTAL, MORAL, PALE, W HOLE, HUNGRY, FINAL, FORMAL, TRU E, AMPLE, DOUBLE 430 !@P+ 440 SUB ADVERB(M\$, ADV\$, A):: LELEN (M4) :: E+=SEG+(M4,L,1): : F\$=SEG\$(M\$,L-1,2):: G\$=SEG \$(M\$,L-1,1):: P\$=SEG\$(M\$,1,L -1):: H#=SEG#(M#,L-2,1) 450 IF ASC(SEG\$(M\$,1,1))<97 THEN As="ALLY" :: Is="ILY" : : L*="LY" :: Y*="Y" :: V*="A EIOU" ELSE AF="ally" :: I\$=" ily" :: L=="ly" :: Y=="y" :: 460 IF Ms="WHOLE" THEN ADVs= "WHOLLY" :: A=6 :: SUBEXIT 470 IF Ms="DRY" THEN ADVs="D RYLY" :: A=8 :: SUBEXIT ELSE IF F*="LL" OR F*="11" THEN ADV#=M#&Y# :: A=3 :: SUBEXIT 480 IF E\$="C" OR E\$="c" THEN ADV#=M#&A# :: A=2 :: SUBEXI T ELSE IF E\$="Y" OR E\$="y" T HEN ADV = P\$&I\$:: A=1 :: SUB EXIT 490 IF E#<>"E" AND E#<>"e" T **HEN 530** 500 IF G\$="L" OR G\$="1" THEN IF POS(V\$,H\$,1)<>O THEN ADV \$=M\$&L\$:: A=5 :: SUBEXIT EL SE ADV\$=P\$&Y\$:: A=4 :: SUBE XIT 510 IF POS(V\$,G\$,1)<>0 THEN ADV\$=P\$&L\$:: A=9 :: SUBEXIT 520 IF PDS(V\$, SEG\$(M\$, L-2, 1) ,1)=0 THEN ADVS=MS&LS 1: A=1 O :: SUBEXIT ELSE ADV\$=M\$&L\$:: A=5 :: SUBEXIT 530 ADV4-M4&L4 :: A-7 :: SUB

100 !MOCKINGBIRD TINYGRAM by Jim Peterson. Tap your tune on the 1 to 0 keys

END

(tuned A through C) 110 !Then press any other key to hear it repeated 120 DATA 220,247,262,294,330 ,349,392,440,494,523 130 FOR J=1 TO 10 :: READ N(J):: NEXT J :: J=0 :: DIM T(50,2) 140 CALL KEY(5,K,S):: IF S=0 THEN 140 150 ON ERROR 190 160 CALL KEY(5,K,S):: IF K=-1 THEN 160 :: K=K-(K=48) \$10 :: T(J,1)=N(K-48):: CALL SOU ND(-999,T(J,1),0)170 IF K=K2 THEN T(J,2)=T(J, 2)+1 :: GOTO 160 180 K2=K :: J=J+1 :: GOTO 16 190 FOR X=0 TO J-1 :: CALL S OUND((T(X,2)+1)*400,T(X,1),0,T(X,1) #1.01,0) :: NEXT X :: J=0 :: GOTO 140

A little subprogram to add a bit of variety to your "FRESS ANY KEY" routine.

1 CALL CLEAR :: CALL PRESSKE Y(24) 30000 SUB PRESSKEY(R) 30001 C=C+1 :: IF C=16 THEN 30002 :: DISPLAY AT(R.1):"" :: DISPLAY AT(R.C): "PRESS AN Y KEY" :: DISPLAY AT (R,C):"P ress any key" :: CALL KEY(0, K,S):: IF S=0 THEN 30001 ELS E 30003 30002 C=C-1 :: IF C=0 THEN 3 0001 :: DISPLAY AT(R,1):"" : : DISPLAY AT(R,C): "PRESS ANY KEY" :: DISPLAY AT(R,C):"pr ess any key" :: CALL KEY(O,K ,S):: IF S=0 THEN 30002 30003 DISPLAY AT(R,1):"" :: SUBEND

And a new way to wipe the screen -

1 CALL CORNERWIPE(30)
29000 SUB CORNERWIPE(CH):: F
OR T=1 TO 24 :: CALL HCHAR(T
,3,CH,T+4):: CALL HCHAR(25-T
,32+T,CH,T):: NEXT T :: CALL
CLEAR :: SUBEND

MEMORY FULL

Jim Peterson

This program is used to set your Cor-Comp Clock. I have used it many times in the beginning of a program I have that uses the clock for Time Stamping on printouts.

The reason I wrote this little program is because for some reason the Cor-Comp Clock seems to get screwed up on an occasion and by running this at the beginning of the program, it reminds me to set my clock. If it reads correctly, you can just go by

and continue with the program you will be working with.

If you note line 220, this is where you can put the name of the program you want to run, or, you can simply put END, to stop, if you just want to set the clock.

I have not used this on the Triple-Tech-Card, but I was told that you access the Clock the same way.

I really like my clock but. I have called Cor-Comp a couple of times about this problem but they don't seem to have an answer. The battery is new and good, mybe someone out there has an answer for me.

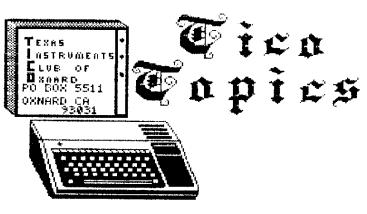
100 CALL SCREEN(16) 110 FOR X=0 TO 14 :: CALL CO LOR(X,5,16):: NEXT X 120 CALL CLEAR :: ON WARNING NEXT 130 OPEN #1: "CLOCK" 140 INPUT #1:A\$.B\$.C\$ 150 GOTO 230 160 DISPLAY AT(5,1): "TODAY I S ";A\$ 170 6010 310 180 DISPLAY AT(7,1): "THE TIM E IS ":C\$ 190 DISPLAY AT (9,1): "THE DAT E IS ";B\$ 200 DISPLAY AT(12,1): "ANY CH ANGES?" 210 CALL KEY (0, K, S):: IF S=0 THEN 200 220 IF K=89 THEN GOSUB 440 E LSE IF K=78 THEN RUN "DSKx.x xxx" ELSE 200 230 IF As=CHRs(49) THEN As=*H ONDAY" ELSE GOTO 240 240 IF As=CHR\$(50) THEN As=*T UESDAY" ELSE GOTO 250 250 IF AS=CHR\$(51)THEN A4="H EDNESDAY" ELSE GOTO 260 260 IF A\$=CHR\$(52)THEN A\$="T HURSDAY" ELSE GOTO 270 270 IF A\$=CHR\$(53)THEN A\$="F RIDAY" ELSE GOTO 280 280 IF A\$=CHR\$(54)THEN A\$=*S ATURDAY" ELSE 60TO 290

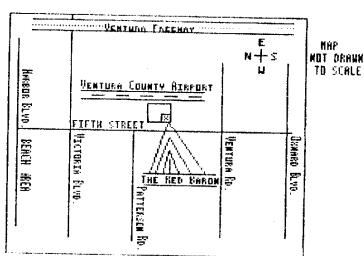
290 IF A\$=CHR\$(55)THEN A\$=#S UNDAY" ELSE GOTO 300 300 60TO 160 310 IF SE6+(C+,1,2)="13" THE N C\$="1"&6E6\$(C\$,3,6)&"PH" E **LSE 60TO 320** 320 IF SEG\$(C\$,1,2)="14" THE N C\$="2"&SEG\$(C\$,3,6)&"PM" E **LSE 6010 330** 330 IF SE6\$(C\$,1,2)="15" THE N C\$="3"&SEG\$(C\$,3,6)&"PM" E LSE 60TO 340 340 IF SE6\$(C\$,1,2)="16" THE N C#="4"&5E6*(C#,3,6)&"PM" E LSE 6010 350 350 IF SE6\$(C\$,1,2)=*17* THE N C\$="5"&SFG\$(C\$,3,6)&"PH" E **LSE 60TO 360** 360 IF SE6\$(C\$,1,2)="18" THE N C\$="6"&SEG\$(C\$,3,6)&"PN" E LSE GOTO 370 370 IF SE6\$(C\$,1,2)=*19* THE N C\$="7"&SEG\$(C\$,3,6)&"PN" E TRE 8010 280 380 IF SE6\$(C\$,1,2)=*20* THE N Cs="8"&SEG*(C\$,3,6)&"PM" E LEE GOTO 390 390 IF SEG\$(C\$,1,2)="21" THE N C\$="9"&SEG\$(C\$,3,6)&"PM" E LSE 50TO 400 400 IF SEG\$(C\$,1,2)=*22* THE N C\$="10"&SEG\$(C\$,3,6)&"PM" ELSE GOTO 410 410 IF SEG\$(C\$,1,2)="23" THE

N C\$="11"&SEG\$(C\$,3,6)&"PH" **ELSE GOTO 420** 420 IF SE6\$(C\$,1,2)="24" THE N C\$="12"&SE6\${C\$,3,6}&"PM" ELSE GOTO 430 430 60TO 180 440 CALL CLEAR 450 DISPLAY AT(5,1): "1. HOND AY": "2. TUESDAY": "3. WEDNESD AY": "4. THURSDAY": "5. FRIDAY ":"6. SATURDAY":"7. SUNDAY" 460 DISPLAY AT(20,1): *TODAYS DAY" :: ACCEPT AT (20, 12) STZ E(1)BEEP: AA\$ 470 CALL CLEAR 480 DISPLAY AT(5.1): "INPUT D 490 DISPLAY AT (7,1) SIZE (-8): "MM/DD/YY" 500 ACCEPT AT (7.1) VALIDATE (N UMERIC) SIZE (-2) BEEP: BIS 510 ACCEPT AT (7,4) VALIDATE (N UMERIC) SIZE (-2) BEEP: B2\$ 520 ACCEPT AT(7,7) VALIDATE(N UMERIC) SIZE (-2) BEEP: B3\$ 530 BB\$=B1\$&"/"&B2\$&*/"&B3\$ 540 CALL CLEAR 550 DISPLAY AT(5,1): "INPUT T IME (IN 12 HOUR MODE)* 560 DISPLAY AT(7,1)SIZE(-8): "HH: MM AM" 570 ACCEPT AT (7,1) VALIDATE (N UMERICISIZE (-2) BEEF : 11 580 ACCEPT AT(7,4) VALIDA尾(N

UMERIC) SIZE (-2) BEEP: C24 590 ACCEPT AT(7,7)VALIDATE(* AP*)SIZE(-1)BEEP:F\$:: IF F\$ =*P* THEN GOSUB 650 ELSE 600 400 C3\$="00" :: CC\$=C1\$&":"& C2\$&":"&C3\$ 610 D#=AA#&","&BB#&","&CC# 620 PRINT #1:D\$ 630 CLOSE #1 640 SOTO 130 650 IF C1\$="01" THEN C1\$="13 660 IF C1\$="02" THEN C1\$="14 670 IF C1\$="03" THEN C1\$="15 480 IF Ci\$="04" THEN Ci\$="16 670 IF C1\$="05" THEN C1\$="17 700 IF C1\$="06" THEN C1\$="18 710 IF C1\$="07" THEN C1\$="19 720 IF C1\$="08" THEN C1\$="20 730 IF C15="09" THEN C15="21 740 IF C1\$="10" THEN C1\$="22 750 IF C1\$="11" THEN C1\$=*23 .od 15 01\$=#10# THEN 01\$=#24

HHP





A FIRST LESSON IN EXTENSES SASIC PROGRAMMING by Jie Peterson

Extended Dasic is nothing more than BARIC with a lot more words added. If you have learned anything about DAGIC programming, it will also apply to Extended Basic.

A PROGRAM is just a numbered series of instructions to the computer, written in more-or-less-plain English, telling the computer to perfore a certain task. The computer will follow these instructions in the order they are numbered, except when you tell it to SOTO or SOSMO to another part of the program.

The instructions are numbered by LINE NUMBERS. You can type these is, but it is easier to just start out by typing NUM and Enter. The computer will then automatically give you line numbers starting with 100 and advancing by 10 to 110, 120, etc. This is so that you can later squeeze more instructions in between using 105, etc. If you need to get out of automatic numbering, in order to correct a line or insert a line, just press Enter twice. To start automatic numbering again, just type NUM, space, and the next line number you mant, such as MUM 130.

In Extended Basic, you can put several instructions under one line number, by putting a double colon (12) between them. But, while you are still learning, please SMET! May not? Well, where please the computer to do something It can't do, or can't understand, it will give you an ERROR message, either when you Enter the line or when you run the program, and it will tell you the line number that is causing the problem but if you have several instructions under that line number, you won't know which one is wrong! The first instruction we will learn is PRINT. This tells the computer to print something on the bottom line of the screen, and then scroll up one line. Try entering MUM, then —

100 PRINT 1 110 PRINT 2

120 PRINT 3 - and RUM it.

Now try -

LOO PRINT A

110 PRINT &

120 PRINT C - and RUM it. It printed a 0 three times, didn't it? Mhy? Mhon you tell the printer to print anything other than a numeric digit (or a math symbol or decimal combined with a number) it thinks that you are telling it to print the VALUE of a VARIABLE. And if you haven't previously told it otherwise, that value is zero. Try this

100 A-10

110 PRINT A

Bo what is a VARIABLE? If you suffered through high school algebra, you may recall equations such as $-8\times T=8$, where S equals speed and T equals time and D equals distance. You could give S and T any values you wanted to, in order to calculate how far something would go at a certain speed in a certain time. T and S and D are VARIABLES. We use these a great deal in programming and

you will soon see why.

Now, suppose you really mented to print the letter A. That's easy, just put it in quotation marks and the computer will know what to do.

LOG PRINT "A"

In either Basic or Extended Basic, the instruction DISPLAY works just like PRINT.

100 BISPLAY 999

110 DISPLAY "HELLD"

Text scrolling up from the bottom looks rather "cheap", compared to those computers which display text from the top of the screen downward. In Extended Basic we can put the display wherever we want by using DISPLAY AT followed by a row and column number in parentheses. There are 24 rows on the screen and 28 columns when you are using PRINT or DISPLAY.

100 CALL CLEAR

110 DISPLAY AT(1,1):1

120 DISPLAY AT(24,1):24

130 ROTO 130

We slipped in a couple of new instructions there. CALL CLEAR just erases everything on the screen (actually it fills the screen with the blank space you get by hitting the space bar). BOTO tells the computer to go to another line number. In this case, it goes back to itself over and over and keeps the program running so it will not print REABY and scroll that first line off the screen. Use FCTN 4 to get may be it.

Try experimenting with DISPLAY AT to put different numbers, words or phrases wherever you want them on the screen. You will find that if you specify a row number greater than 24, the computer will just subtract 24 until it gets down to a number within range.

100 DISPLAY AT (25, 35); "WHERE?"

In some program you may see PRINT followed by 8 and a number or variable. This is an instruction to print to a printer, to a disk, a speech synthesizer, or whatever. Actually you can print to the screen by -

100 PRINT #0: SEE?"

but there is usually no reason to do so.

Now, a few words about print separators. Try this -

100 PRINT 1:2:3

110 PRINT 1,2,3

120 PRINT 1:2:3

130 PRINT "A", "R", "C"

See what happens? The colon (1) causes the computer to skip to the beginning of the next line before printing again. The comma (,) causes it to jump half the width of the screen before printing again. And the semi-colon causes it to print one item right after another EXCEPT that numbers are always printed with a blank space before and after them (a negative number has a minus sign (-) instead of a blank before it). Now try -

100 PRINT 1:2:3:

110 PRINT 1,2,3,

120 PRINT 4

130 PRINT 1:2:3:

140 PRINT 4

The colon after the 3 in line 100 was useless

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Have I got some deals for you this

It seems that some TI owners want to liquidate their systems. The prices are right and these deals should not last long.

First:

A complete PE Box with one disk drive, disk drive controller, 32k memory expansion, console, andulator, and a Axiom Printer Interface. Software includes, Extended Basic, TI Count Business Software, including: 1. General Ledger 2. Accounts Receivable 3. Accounts Payable 4. Inventory System Other Misc. Software.

All this for only \$200 cash and carry. UPGRADE TODAY!!! Contact: Harley Harlington P.O.Box 5511 Oxnard, Ca. 93031 (805) 984-3391

Second:

PE Box, with RS232 one disk drive and controller, 32k memory expansion, console.
Software includes, Extended Basic, TI Writer, AM List, Other Misc. Books and Software.
All for only \$250

Contact: John Thompson 1530 Ramona Dr. Camarillo, Ca. 93010 (Also a Panasonic Monitor for \$95)

One more time:

PE Box with Disk Drive, Disk Controller, RS232, (I think)32k memory, Joystick, TI console

Software includes: Extended Basic, II Writer, modules and books ONLY,\$250 Contact: John Kalench 118B N. Bedford Dr. Camarillo, Ca. 93010 (805)482-2200 (Also a computer table (metal)for \$75)

I am sending this letter to some of the past members that I still have an address for in hopes that maybe they will make it to a meeting. We would love to have you attend and maybe let us know, for whatever reason, why you stopped coming. We would really like to hear from you. If for some reason you are unable to attend a meeting, just drop me a note at:

H. Harlington
PO 80X 5511
Oxnard, Ca. 93031

If you simply lost intrest, come and see what you have been missing and where the II is now !!!

In this months newsletter I have included a simple little program for setting the Cor-Comp Clock. You can include this in the beginning of any program (Basic, ExBasic) to set your clock. This will set both the clock in the Triple-Tech card and in the Stand Alone Unit, so if your program uses the clock, you can be sure that it is set correctly. You could even set it to POST-DATE.

Included in this months newsletter are some bits from around the country which were taken from the newsletters we exchange with. I hope you enjoy them

JOIN IN THE FUN !!!!

Be a contributor to the newsletter. Have your article published with your own Bi-Line. Just submit your articles to the PO Box listed on the front, and wait for your article to appear. Write about AWYTHING, even what you did on vacation, we don't care, just send it and the editor will do his best to include it in the next months newsletter. Remember you can't be published if you don't send in that article!

600D NEWS, 600D NEWS, 600D NEWS !!!!!!

That programming genius Jim Peterson of the Tigercub has sent us some new articles in TIPS FROM THE TIGERCUB #8 46 to 54. And along with this he has sent his newest catalog. Come to the meting and see what he has to offer, his prices have been reduced, and there are lots and lots of really neat things to use. But you will miss out on these if you don't come to the meeting.

I would like to take this time to propose that every user group that has had the great fortune to have the Tigercub grace their pages, send Jim a monitary thank-you so as to encourage him to keep sending out these Gems.

Thanks again Jim, keep up the good work !!!

My Memory's Empty

I just recently visited Tex-Comp and while I was there I picked up a limited supply of their newest catalog. Come to the meeting and get yours, first come first served.

Pur ELAT

because the computer would advance to the next line anyway. The comma after the 3 in line 110 caused line 120 to print half a screen width after the 3. And the semi-colon after the 3 in line 130 caused line 140 to print immediately after the 3.

Do a lot of experimenting with this, until you know just what the print separators will do. Try - 100 PRINT "A"."BCDEFGHIJKLNNOPQ"

See what happens when the item after the comma is more than half a screen in length? Now try this -

100 PRINT 1: : : : : 2

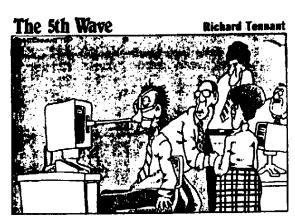
And try this -

100 CALL HCHAR(1,1,42,749)

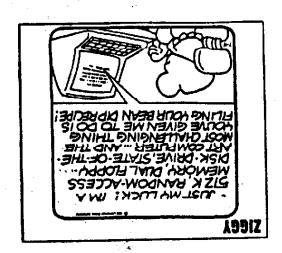
110 DISPLAY AT(5,1):"TEST"
120 DISPLAY AT(7,1)SIZE(4):"TEST"

130 DISPLAY AT(9.1): "TEST":

Line 100 just fills up the screen with something so I could show you that DISPLAY AT erases the remainder of the line unless you specify the length of what you will print with SIZE or, much easier, put a semicolon after the text.



"ALPIGHT, STEADY EVERONE. MARKO, GO OVER TO TOM'S COMPLITER AND PRESS "ESCAPE" ... VERY CAPERILLY!"











DALLAS TI COMPUTER

P.O. BOX 29863 DALLAS TX 75229