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Kankakee

K*3 T.I. USERS' GROUP
C/O DAN HESSLING
RT. 2 BOX 203
MOMENCE. ILL 60954

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EDMONTON 99'ERS USERS
P.O. BOX 11983..EDMONTON
ALBERTA CANADA T5J-3L1 PRINTED MATTER
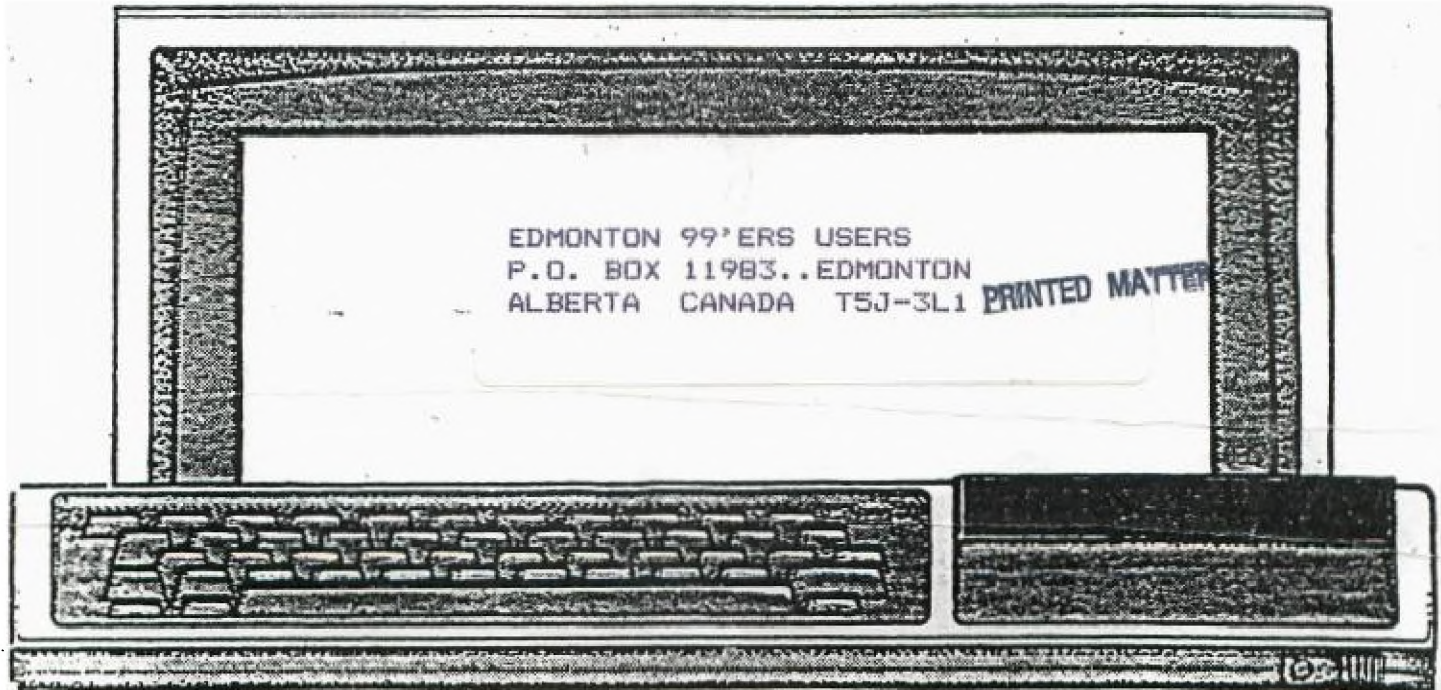
K✧3 T.I. Users Group Newsletter

Greetings fellow 99ers. Summer has arrived! I hope you take time from your busy summer schedule to attend our June meeting. This meeting of the K*3 Users' Group will be on Sat. June 16th, from 1 till 3 PM.   (Please note that the July and August meetings will be shortened even further, to 1 hour each!) We will meet at the usual location, which is the second floor of the Municipal Bank building. across from K-Mart in Bourbonnais. Those of you who bring children. please keep them under close supervision (and quiet). Bank personnel have complained of the noise. If we loose the bank location (which is free, as well as being very nice) we would have a real problem finding another location. Thank You!

Events scheduled for this meeting are.... a short introduction and. question and answer session. The floor will then be turned over to Chairpersons for reports on various committees. Special Interest Groups will form. Al Johnson isscheduled to demo a modem. The 'Game of the Month Contest' as you know is no longer held but, game playing computer(s) will however be supplied. Also we plan to have a video recorder. playing a movie (such as Tron) to help entertain the kiddies (and maybe some grownups as well!). The meeting will adjourn at 3 PM so that we can get the area cleaned and vacated.   Note: If anyone has anything to buy, sell, or trade, bring it along and post it on the chaulk board. If anyone has equipment that needs to be repaired you may contact Al Johnson. Al travels near the TI repair facility often and has offered to deliver any items to be repaired to TI. You will need 1) proof of purchase... 2) a short note discribing the problem with the equipment. Al's Number is: 1-815-467-4048.

```
1 - 1:15...Introduction
1:15 - on..Library open
1:30 - on..Demos, etc.
```

FOR SALE

Dan Morrissette: 815-426-6697
        Brand new P.E. Box (still in box)
        Speech sysnthesizer

Dan Hessling: 815-472-6216
        T.I. Multiplan........$50   Never really used
        T.I. Logo 2...........$50   Used once
        G.E. Tape Recorder....$35   Works very well with the T.I.
        Wards B/W (9" ?) TV...$25

WANTED

        RS-232 CARD FOR P.E. BOX

LIBRARY NEWS
By Bev Cook

        Our library rentals are booming. We don't have anything new this month but
we are keeping our eyes open.
        Is anyone interested in obtaining a copy of TI FORTH? Copies are available
for only $18.00, well below what other companies are asking. This includes the
manual and disk -- Editor/Assembler is required. Anyone interested, let me know
at the meeting. Mail orders add $3.00 postage and handling. Send check or money
order to Beverly Cook, Librarian - RR#3, Box 245 - Kankakee, ILL., 60901.
        Our catalogs should be available at the next meeting. Due to copying
costs, they will be **.50 each. Each program is described briefly, listed
whether it is BASIC or EXTENDED, and what peripherals, if any, are needed. The
12 page catalog is full of games, educational and business programs. Programs
will be $1.00 each plus a tape or disk. Tapes and disks will be available at
the meeting for a nominal fee. Of course, you can provide your own. Programs
ordered will be available for pick-up at the following meeting unless other
arrangements are made.
        One last note -- Please look through your instruction booklets. We have
had some modules returned without their instructions. They can't be replaced
and some modules are very difficult, if not impossible, to understand without
them. Thanks!

                    Bev Cook -- Librarian

        BOARD MEETING 6-3-84

Board members attending
   Mark harms, Al Johnson, Rich De Roos, Jim Johnston, Bev Cook, Bruce Shearer,
George Lempeotis, Glen Flowers(came late and did not vote).

Board set up the following positions: Chairman, Vice-chairman,
Treasurer-Librarian, Secretary, Newsletter Editor, Membership-Advertising, 3
library assistants, Spokesman for General meeting.

Votes
Chairman-Jim Johnston
Vice-Chairman-Mark Harms
Treasurer-Librarian-Bev Cook
Secretary-George Lempeotis
Spokesman-Al Johnson
Newsletter-Dan Hessling
Membership-Dan Morrissette
Library Assistants-Rich DeRoos,Bruce Shearer,Glen Flowers

Dues raise will go into affect as of June 3, 1984

Summer meetings will be shortened to 1 hour at the bank due to the heat problem
at the bank. This will allow our members to continue to use the library and
will go through the July and August meetings. The usual hours will continue at
the September meeting.

WHAT'S NEW WITH TI?
By Al Johnson, former TI representative

Yesterday, June 2nd, I attended the last Chicago TI users' group meeting for the summer. Their next meeting will be next September. The demonstration was "Oscar", the bar code reader device, available from Code Co., of Indianapolis for $48 (800-328-0609) vs. list price of $79.95. Apparently it is considered possible to write your own bar code using a dot matrix printer; however programs are available for about $2 each. They also handed out a new library listing (about 200 titles,75% games); ken Brooks of Bolingbrook (312 759 2859) is the person to contact if you want to buy any; they will make up a diskette and mail it to you.

There is much interest in the TI home computer amoung colleges for teaching computer literacy. I'm teaching a total of 5 five-week evening courses at Triton College this summer, and am only one of several instructors using the college's "lab" (11 computers, one with an expansion system). George Williams College has a similar program. I am using my TI as an additional machine in the computer science course I teach as the Industrial Engineering College of Chicago. We haven't seen Brian Mackie lately as he has a full teaching schedule. In addition to the Will County TI users' group (next meeting: 1 pm, Fountaindale Public Library, Sun., June 17th) I have heard of TI users groups in Griffith, Indiana, and Schaumburg. The Chicago users' group conducted a survey; of the questionnairs mailed to each member, about 27% responded and a surprising 90% owned disk drives. Consequently they are de-emphasizing cassette-based software.

I recently received Hunter Electronics spring newsletter. Roy Hunter is a regular attender of Chicago TI Users' Group meetings and good competiton for Elek-tek. Among other offerings is the expansion system for $400. After the TI failure to honor its committments to K-Mart, it still rankles to see things like this! Roy Hunter's phone is 312 832 6558.

Last week I was recruited for an attitude survey and spent about an hour answering questions about, of all things, my preferences regarding portable computers, including the TI CC-40! Apparently TI commissioned the survey to determine how the CC-40 stacked up against HP,Sharp,Tandy, etc. What it all boils down to is that for $200 you get the CC-40 which is large enough to type on but sufficiently small to be carried in a large overcoat pocket for field data collection, etc. and which is compatible with our 99/4A home computers.

To conclude this column, a comment about the Special Interest Groups, or SIGs is in order. The Chicago TI group has four - Assembly, TI Fourth, Business applications and Games. Only the TI-Fourth seems active. The K*3 problem is much the same - no recognized chairman, no separate meeting schedule, no program. I think that after our members have been "gee whized" five or six meetings by the latest game or other regular meeting display, the only things which will hold their interest in the group will be our library and the SIG.

See you on the ████ 16th.

THE SEG$ FUNCTION
BY: GEORGE LEMPEOTIS

This is the first in a series of articles I would like to present on the string functions. I would first like to explain how the function is used, then give an exapmple of the function in use, and then give a subroutine with the function in use.

For anyone who doesn't remember, the computer see two kinds of characters; numeric and alphanumeric. Numeric characters are any real number (example- 1 to 10) that the computer can do mathamatical operations on (add, subtract, etc.); assign a real number value to that character, and use that character in a numeric operation. alphanumeric character are any ASCII sysmbol (a-z, 1-0, special characters). The computer cannot do any mathamatical on that character or assign it a real numeric value. A string is a collection of alphanumeric character.

This first article will deal with the SEG$ function. SEG$ (or string segment) function will return a smaller string from a larger original. The form is (LET B$= SEG$(A$,X,Y)). A$ is the larger original. X is the first position of the new string segment B$ in A$. Y is the length of the new string B$. and B$ is the new smaller string.

Now lets try an example: A$= K3 TI USERS' GROUP, X=4, and Y=14. The statment LET B$=SEG$(A$,X,Y) will return B$ as equal to TI USERS' GROUP. THe first character in B$ will start at the fifth character (including spaces) of A$, which is the letter "T". THe length of B$ is 14 character (remember spaces are valid characters!), which runs the length of B$ to the letter "P" in A$, and lets B$ be equal to "TI USERS' GROUP"

The subroutine example I will outline will look for the first blank space (" ") from the end of the original string. The subroutine eill then make a new string omitting every character passed that blank space. I used this subroutine to eliminate word wrap in a word processing program. Word wrap being whole words that run past the screen length in a sentence. The TI can only handle 28 characters on a screen line, which limits sentence length to 28 characters. In order to keep words from being chopped off at the end of a line, I use this subroutine to position the end word on the next line. Here is the subroutine, lets see if you can figure out how it works?

```
1010 K=LEN(A$(L))
1020 FOR J=K TO 1 STEP -1
1030 IF SEG$(A$(L),J,1)=" " THEN 1060
1040 NEXT J
1050 GOTO 1090
1060 IF J=K THEN 1090
1070 A$(L)=SEG$(S$(L),1,J)
1080 A$(L+1)=SEG$(A$(L),J,K-J) A$(L+1)
1090 RETURN
```

If the first space (" ") is found at the last character of A$(L) (J=K) line 1060, A$(L) is not wrapped around the end of the screen and nothing need be done to A$(L). If word wrap is present, the end word is put at the beginning of the next string (screen line) A$(L+1) line 1080.

Thats enough for now, untill next time with more on string functions.

TIGERCUB TIPS #12

Tigercub Software specializes in low-cost quality software for the TI-99/4A computer. I have over 130 absolutely original programs for only $3.00 each. Catalog $1.00, refunded on your first order.

New programs available this month are WHITE KNIGHT, a fun game for the kids available in Basic or XBasic, and BARS AND BALLS, a strategy game.

If you have taken a course in computer programming, one of your homework assignments was probably to write a program that would find all the possible combinations of letters in a 5-letter word. The following version can handle words of 3 to 6 letters, lists the combinations alphabetically, eliminates duplicates (when the word has two of the same letter), does not require a DIM statement, and is fast. It also works with numbers. If you work those scrambled-word puzzles in the newspapers, you'll find it handy.

```
100 CALL CLEAR :: PRINT TAB(
5);"TIGERCUB ANAGRAMMER": :!
BY JIM PETERSON
110 INPUT "TYPE A 3-,4-,5- O
R 6-LETTER WORD  ":A$ :: W=L
EN(A$):: IF (W<3)+(W>6)THEN
110
120 PRINT :: FOR J=1 TO W ::
 B$(J)=SEG$(A$,J,1):: NEXT J
 :: FOR J=2 TO W :: IF B$(J)
>=B$(J-1)THEN 160
130 T$=B$(J):: FOR L=J-1 TO
1 STEP -1 :: B$(L+1)=B$(L)
140 IF B$(L-1)>=T$ THEN 150
:: B$(L)=T$ :: GOTO 160
150 NEXT L
160 NEXT J
170 FOR A=1 TO W :: FOR B=1
TO W :: IF B=A THEN 340
180 FOR C=1 TO W :: IF (C=A)
+(C=B)THEN 330
190 IF W=3 THEN 250
200 FOR D=1 TO W :: IF (D=A)
+(D=B)+(D=C)THEN 320
210 IF W=4 THEN 260
220 FOR E=1 TO W :: IF (E=A)
+(E=B)+(E=C)+(E=D)THEN 310
230 IF W=5 THEN 270
240 FOR F=1 TO W :: IF (F=A)
+(F=B)+(F=C)+(F=D)+(F=E)THEN
 300 ELSE 280
250 W$=B$(A)&B$(B)&B$(C):: I
F W$<=V$ THEN 330 ELSE 290
260 W$=B$(A)&B$(B)&B$(C)&B$(
D):: IF W$<=V$ THEN 320 ELSE
 290
270 W$=B$(A)&B$(B)&B$(C)&B$(
D)&B$(E):: IF W$<=V$ THEN 31
0 ELSE 290
280 W$=B$(A)&B$(B)&B$(C)&B$(
D)&B$(E)&B$(F):: IF W$<=V$ T
HEN 310
290 PRINT W$&" ";:: G=G+1 ::
 V$=W$ :: ON W-2 GOTO 330,32
0,310,300
300 NEXT F
310 NEXT E
320 NEXT D
330 NEXT C
340 NEXT B
350 NEXT A
360 PRINT : :" ";G;"TOTAL C
OMBINATIONS.": : :: G=0 :: V
$="" :: GOTO 110
```

And still another automatic music maker. This one doodles around the keyboard in the key of A, with automatic bass accompaniment.

```
100 RANDOMIZE
110 DIM N(30)
120 F=220
130 FOR J=0 TO 36
140 X=X+1+(X=12)*12
150 IF (X=2)+(X=5)+(X=7)+(X=
10)+(X=12)THEN 180
160 Y=Y+1
170 N(Y)=INT(F*1.059463094^J
)
180 NEXT J
190 K=8
200 K=K-INT(5*RND+1)+INT(5*R
ND+1)+(K>21)*2-(K<1)*2
210 IF (K<1)+(K>21)THEN 200
220 CALL SOUND(-999,N(K),0,N
(K)*2,0,N(K)*3.75,30,-4,5)
230 GOTO 200
```

```
100 CALL CLEAR
110 REM - PROGRAMMED BY JIM
PETERSON MAY 20, 1984
120 PRINT "TIGERCUB MAGIC SQ
UARE MAKER": :" A MAGIC SQUA
RE IS A CONSE-":"CUTIVE SERI
ES OF NUMBERS":"ARRANGED IN
A SQUARE IN SUCH"
130 PRINT "A WAY THAT EACH H
ORIZONTAL":"ROW, VERTICAL RO
W, AND LONG":"DIAGONAL ROW W
ILL ADD UP TO":"THE SAME TOT
AL.": :
140 PRINT " THIS LITTLE PROG
RAM WILL":"CREATE AN ODD-ORD
ER MAGIC":"SQUARE OF ANY DES
IRED SIZE,":"STARTING WITH A
NY DESIRED":"NUMBER.": :
150 PRINT " SQUARES OF 3,5,7
 OR 9 SIZE":"WILL BE PRINTED
 ON THE":"SCREEN. THE PROGRA
M CAN BE":"MODIFIED TO OUTPU
T LARGER"
160 PRINT "SIZES TO A PRINTE
R.": :
170 INPUT "SIZE OF SQUARE?(O
DD NUMBER) ":S
180 IF (S<3)+(S/2=INT(S/2))T
HEN 170
190 INPUT "STARTING NUMBER?
":SN
200 N=SN-1
210 CALL CLEAR
220 DIM G(31,31)
230 R=1
240 C=INT(S/2)+1
250 N=N+1
260 IF N=S^2+SN THEN 450
270 G(R,C)=N
280 IF (R-1=0)+(C+1>S)THEN 3
50
290 IF G(R-1,C+1)<>0 THEN 33
0
300 R=R-1
310 C=C+1
320 GOTO 250
330 R=R+1
340 GOTO 250
350 IF (R=1)*(C=S)THEN 400
360 IF (R>1)*(C=S)THEN 420
370 R=S
380 C=C+1
390 GOTO 250
400 R=2
410 GOTO 250
420 R=R-1
430 C=1
440 GOTO 250
450 IF (LEN(STR$(SN+S^2))+1)
*S>28 THEN 530
460 FOR R=1 TO S
470 FOR C=1 TO S
480 PRINT STR$(G(R,C));" ";
490 NEXT C
500 PRINT : :
510 NEXT R
520 GOTO 550
530 PRINT "TOO LARGE FOR SCR
EEN."
540 REM - ADD PRINTER ROUTIN
E HERE
550 PRINT : :"PRESS ANY KEY
TO CHECK"
560 CALL KEY(0,K,ST)
570 IF ST=0 THEN 560
580 FOR R=1 TO S
590 FOR C=1 TO S
600 X=X+G(R,C)
610 NEXT C
620 PRINT "ROW #";STR$(R);"
=";X
630 X=0
640 NEXT R
650 FOR C=1 TO S
660 FOR R=1 TO S
670 X=X+G(R,C)
680 NEXT R
690 PRINT "COLUMN #";STR$(C)
;" =";X
700 X=0
710 NEXT C
720 R=1
730 C=1
740 FOR J=1 TO S
750 X=X+G(R,C)
760 R=R+1
770 C=C+1
780 NEXT J
790 PRINT "RIGHT DIAGONAL =";
X
800 X=0
810 R=1
820 C=S
830 FOR J=1 TO S
840 X=X+G(R,C)
850 R=R+1
860 C=C-1
870 NEXT J
880 PRINT "LEFT DIAGONAL =";X
890 END
```

ALMOST OUT OF MEMORY, SO
HAPPY HACKIN'

JIM PETERSON

```
90 CALL SCREEN(5):: FOR C=1 TO 14 :: CALL COLOR(C,16,1):: NEXT C
100 OPTION BASE 1 :: DIM PG$(20),T$(5):: CALL CLEAR
110 T$(1)="DIS/FIX" :: T$(2)="DIS/VAR" :: T$(3)="INT/FIX" :: T$(4)="INT/VAR" ::
T$(5)="PROGRAM"
120 IMAGE ##
130 DISPLAY AT(1,9)ERASE ALL:"DISKETTE MENU" :: DISPLAY AT(12,6):"DISK? (1-3):"
:: ACCEPT AT(12,19)SIZE(-1)VALIDATE("123"):D$
140 D$="DSK"&D$&"." :: OPEN #1:D$,INPUT ,RELATIVE,INTERNAL :: INPUT #1:N$,A,J,K
:: DISPLAY AT(1,1)ERASE ALL:SEG$(D$,1,4)&" - DISKNAME= "&N$:
150 DISPLAY AT(2,1):"AVAILABLE= ";K;"USED=";J-K;"PROG  FILENAME   SIZE   TYPE":"--
-- ------------ ----- --------" :: I=0
160 FOR X=1 TO 20 :: I=I+1 :: IF I>127 THEN K=X :: GOTO 230
170 INPUT #1:P$,A,J,B
180 IF LEN(P$)=0 THEN 210
190 DISPLAY AT(X+4,2):USING 120:X :: DISPLAY AT(X+4,6):P$ :: PG$(X)=P$ :: DISPLA
Y AT(X+4,18):USING 120:J :: DISPLAY AT(X+4,22):(ABS(A))
200 NEXT X
210 DISPLAY AT(X+4,1):" " :: DISPLAY AT(X+4,2):USING 120:X :: DISPLAY AT(X+4,6):
"TERMINATE" :: DISPLAY AT(X+6,1):" CHOICE? 1"
220 ACCEPT AT(X+6,10)SIZE(-2)VALIDATE(DIGIT):K
230 IF K=X THEN CALL CLEAR :: CLOSE #1 :: END
240 IF K<1 OR K>20 OR LEN(PG$(K))=0 THEN 210
250 CLOSE #1
260 CALL INIT :: CALL PEEK(-31952,A,B):: CALL PEEK(A*256+B-65534,A,B):: C=A*256+
B-65534 :: A$=D$&PG$(K):: CALL LOAD(C,LEN(A$))
270 FOR I=1 TO LEN(A$):: CALL LOAD(C+I,ASC(SEG$(A$,I,1))):: NEXT I :: CALL LOAD(
C+I,0)
280 RUN "DSKX.1234567890"
```

MEMBERSHIP   7.50
        Membership to the K*3 Users' Group costs only $● per year, for
your entire family. For this you recieve the monthly newsletter, and
are eligible to rent TI modules and other software packages as well
as buy programs for the member rate of only $1 per program. Also you
may rent TI related books for $1, plus many more benefits.