



MID ILLINOIS COMPUTER RESOURCE
ORGANIZATION
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BLOOMINGTON - NORMAL MICRO NEWSLETTER
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Welcome to the age of the computer in the home! Future meetings will be held the third THURSDAY of each month at 7 P.M. at the IAA Building in Bloomington. Future dates include October 17, November 21 and December 19.

The program for October will consist of everyone attending to demo a cassette or disk program or a cartridge. A cassette recorder and disk drive with extra memory will be provided. Extended basic will also be available. I hope everyone brings something to share. This will give some of our members a chance to demo a program for their first time.

Also, Aubrey and Sherwood will demonstrate electronic mail as used in the IAA building.

**** PRESIDENTS NOTES ****

Our September meeting was probably our best one this year. Although we had to find another room and TV, everything else went fairly smooth. It appears, the idea of everyone attending the meeting to bring one piece of software to demonstrate is working very well. Even with only about ten members there (the usual group), we did have a good variety in the software demoed. I did a short introduction in the features of TI-WRITER (Note: in this newsletter is a handy reference sheet of TI-WRITER commands). Sid went thru his newly purchased Advanced Diagnostics by Craig Miller. The program has many neat features. One we tried was checking disk drive speed. It verified that the drive used was in spec. Ray Hinrichsen demoed DM1000, a new freeware disk manager. Ray Fisher showed his Hangman cartridge. Thanks to everyone who came and demoed software. As a side note, some people still can't remember to bring SS/SD disks to demo.

Brian McFeeters

Included in this newsletter is an invitation to the Chicago-Area TI-Computer Faire. It will be their Third annual fair. I went to the first one. It was very informative with many TI vendors displaying their goods. Several of our members will be going so check around if you need a ride.

Thomas Bryson, who formerly owned the Computer Software Co.(was located in the old Ward's building) , has opened a new store called Home Video. It is located at 108 W. Washington St. in Bloomington. He has a some TI software which he was selling for half price. I bought a Division I cartridge for \$6.00. He is mainly going to special order TI products.

Thanks again to Jim Peterson for his " Tips From The Tigercub ". The TI-WRITER reference sheet was in the SEPT85 HUG's newsletter. The Wordsearch review was written by our own Steve Maupin which had also appeared in the Pekin User Group newsletter where he is a member.

If you have ever wanted to change your basic or extended basic programs to Display/Variable 80 (to be read by TI-WRITER), it is very easy. Just type and enter: LIST "DSK1.filename". Make sure you use a different filename on disk so you don't write over your original program.

It appears there will be some new hardware available in the few months. MYARC is offering a 32K/128K Ramdisk memory. It is expandable to 512K. It offers a print spool and a true ramdisk. The ramdisk feature allows you to load the extra memory beyond the first 32K as a disk drive. You can also plug in a separate power supply (not included) to keep the programs in there with your P-box off. Miller Graphics will be selling a device called the GRAM KRACKER. It plugs into the module port and allows you to save the contents of any cartridge to disk or cassette. You can modify the contents, save them, and load them into the battery backed up GRAM KRACKER. It might be available in November and will cost \$150-\$200. NOT BAD!!! Model Masters of 22411 Mountain Laurel Way, Diamond Bar, CA 91765 is offering a five megabyte hard disk for \$795 and ten meg for \$995. Rumors still persist that a new TI-99/4A compatible computer will be released. Hopefully it will show up, but with all the new hardware appearing we may not need it.

Elections will be coming up in December. We need to start thinking about who you want to have as 1986 officers. Anyone interested in any position can contact me. We definitely need support if we are to continue.

Brian McFeeters

WORDSEARCH

PROGRAMS FOR THE TI by TIGERCUB SOFTWARE

After reading the "TIPS FROM THE TIGERCUB" for several months and finding them to be helpful, informative and fun, I ordered their catalog of programs. The catalog only costs a dollar and you can deduct that from your first order. The catalog lists about 140 programs and the best part is that all but a few cost only \$3.00. When was the last time you bought a program for only \$3.00? I ordered a couple of programs, but my favorite one is listed in the TIGERCUB catalog as TC-111(Wordsearch). This program is actually two programs in one. The first one is Wordsearch and the second is Wordsearch Maker. If you have ever worked the wordsearch puzzles in the newspaper, then you will be familiar with this program. If you have never played, don't worry, the computer gives you instructions. The program will hide 20 words of a selected category in a 20 by 20 square of random letters. The hidden words may be printed horizontally or vertically, forward or backward. After you have selected Wordsearch from the menu, you have a choice of either the word list or category name with the puzzle. If you choose #1, you get the words you are searching for to the side of the puzzle. When playing, if you find one of the words in the puzzle, it will be removed from the list. However, if you choose option #2, the puzzle is printed with only the category name. This option is a little harder, but I think alot more challenging and fun. No matter with which option you choose, if you give up, the computer will show you where the words are hidden.

Wordsearch Maker lets you create your own wordsearch puzzles. You can choose the size of your puzzle, between 10 and 24. To create a puzzle, you move the asterick around with the arrow keys and place letters using the control key. It's very easy. After you've created your own wordsearch puzzle, you can print it out. The program is set up for PIO, but only one line needs to be changed to run a serial printer. You can send print control commands to your printer.

Both programs are in Basic, however Wordsearch Maker will run in Extended Basic. Try 'em! I think you'll find them fun.

Steve Maupin

COMPUERVEADCSFWERDSA		
Y00SHOULOADAIHNBHCTTP		
THDPROGRAMITHCYERDCSU	INSTRUMENTS	ASCII
EVEEWEDALTSAUGHPUZZLG	ONLINE	DISK
ECMGLKJGUNKYNFTREEDWS	TIGERCUB	ENTER
YCANALSOBEFUNEETTHEYP	COMPUERVE	OPEN
GETYIIJSNTWRCWPFDCSFF	PUGS	END
THIIIANDWHENILNOLESTE	REM	DATA
ARCOOTHINKTHENALLKINN	MODEM	LOAD
INSTRUMENTSLKUSDBEDWT	PROGRAM	
MAHTTUUSFFMERHANKSJIE		
MPETERSONANDTIGERCUBR		

A HANDY DANDY TI-WRITER USERS REFERENCE GUIDE

SUBMITTED BY BOB STEPHENS

The following handy TI-WRITER commands are reprinted for the June issue of the 99'er News published by the TI Users Group of Will County, Romeoville, Il. This puts the most used commands on one page for handy access at your computer.

```
=====
EDITOR COMMAND :FCTN:CTRL:  EDITOR COMMAND :FCTN:CTRL:  EDITOR COMMAND :FCTN:CTRL
=====
```

Back tab	:	:	T	:	Ins. Blank line	:	8	:	O	:	Quit	:	=	:		
Beginning/line	:	:	V	:	Insert character	:	2	:	G	:	Reformat	:	:	2orR		
Command/escape	:	9	:	C	:	Last paragraph	:	:	6orH	:	Right arrow	:	D	:	D	
Delete character	:	1	:	F	:	Left arrow	:	S	:	S	:	Roll down	:	4	:	A
Del. end of line	:	:	:	K	:	Left margin rel.	:	:	Y	:	Roll up	:	6	:	B	
Delete line	:	3	:	N	:	New page	:	:	9orF	:	Screen color	:	:	:	3	
Line #'s(on/off)	:	0	:	:	:	New paragraph	:	:	8orM	:	Tab	:	7	:	I	
Down arrow	:	X	:	A	:	Next paragraph	:	:	4orJ	:	Up arrow	:	E	:	E	
Duplicate line	:	:	:	S	:	Next window	:	5	:	:	Word tab	:	:	:	7orW	
Home cursor	:	:	:	L	:	Dops!	:	:	1orZ	:	Word wrap/fixed	:	:	:	0	

```
=====
```

Load files: LF (enter) DSK1.FILENAME (load entire file)
 LF (enter) 3 DSK1.FILENAME (merges filename with data in memory after line 3)
 LF (enter) 3 1 10 DSK1.FILENAME (lines 1 thru 10 of filename are merged after line 3 in memory)
 LF (enter) 1 10 DSK1.FILENAME (loads lines 1 thru 10 of filename)

```
=====
```

Save files: SF (enter) DSK1.FILENAME (save entire file)
 SF (enter) 1 10 DSK1.FILENAME (save lines 1 thru 10)

```
=====
```

Print Files: PF (enter) PIO (prints control characters and line numbers)
 PF (enter) C PIO (prints with no control characters)
 PF (enter) L PIO (prints 74 characters with line numbers)
 PF (enter) F PIO (prints fixed 80 format)
 PF (enter) 1 10 PIO (prints lines 1 thru 10)

NOTE: The above assumes PIO, DSK1.FILENAME, and RS232 are also valid!
 To cancel the print command press FCTN 4.

```
=====
```

Delete file: DF (enter) DSK1.FILENAME

```
=====
```

Setting Margins and Tabs: (16 tabs maximum)
 L - Left margin R - Right margin I - Indent T - Tab
 Use ENTER to execute or COMMAND/ESCAPE to terminate command.

```
=====
```

Recover Edit: RE (enter) Y or N

```
=====
```

Line move: M (enter) 2 6 10 (moves lines 2 thru 6 after line 10)
 M (enter) 2 2 10 (moves line 2 after line 10)

```
=====
```

Copy: same as move except use C instead of M.

```
=====
```

Find String: FS (enter) /string/ (will look for string in entire file)
 FS (enter) 1 15 /string/ (will look for string in lines 2 thru 15)

```
=====
```

Delete: D (enter) 10 15 (deletes lines 10 thru 15 in memory)

```
=====
```

CHICAGO-AREA TI-99/4A USER'S GROUP

P.O. Box 578341
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60657

August 6, 1985

Dear TI-Friends

The Chicago-Area TI99/4A User's Group cordially invites your group members, and any other interested persons, to attend their third annual TI-Computer Faire. The Faire committee currently has plans to have guest speakers, game contests, seminars on TI-computer related topics, drawings, and door prizes. The most important feature of our Faire, as always, are the vendors. The vendors that display at our Faire have the latest hardware and software available for the TI99/4A, as well as the old favorites. Bargain hunters will enjoy the wide selection of competitively priced equipment and programs that can be used to increase their computing capabilities on the 99/4A. Last year the attendance at our Faire exceeded 1500 visitors, some from as far away as Canada.

Come and visit our Faire. The Faire will be held in the Ironwood Room at Triton College 2000 North Fifth avenue in River Grove, Illinois on November 2, 1985 between the hours of 10:00 A.M. and 5:00 P.M. Just 1/4 mile north of the Maywood Park race track. Bring the family for a day of fun and mind expanding information on your favorite computer. Admission to the Faire to bona fide members of TI User's groups is \$1.00 with proof of membership. General admission to the Faire is \$2.00 per person at the door. There will be a table set up for visiting users groups to promote their own organization and recruit members, a condition of this promotion is that no hardware is to be sold by the groups. Take care you don't miss the Faire. That date again is Saturday November 2nd, 10 to 5, see you there.

Thank You,

Sandra Bartels

Group Secretary

P.S. If you need more information about our Faire please write to the group P.O. box, or if you prefer you may call our 24 hour BBS for the latest Faire updates at (312) 966-2342.

SB/jb

TIPS FROM THE TIGERCUB

#24

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

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

Nuts & Bolts is a diskfull of 100 (that's right, 100!) XBasic utility subprograms in MERGE format, ready for you to merge into your own programs. Contents include 13 type fonts, 14 text display routines, 12 sorts and shuffles, 9 data saving and reading routines, 9 wipes, 8 pauses, 6 music, 2 protection, etc., and now also a tutorial on using subprograms, all for just \$19.95 postpaid!

And I have about 140 other absolutely original programs in Basic and XBasic at only \$3.00 each! (plus \$1.50 per order for cassette, packing and postage, or \$3.00 for diskette, PPM) I will send you my descriptive catalog for a dollar, which you can then deduct from your first order.

TIJ
UDS:TDFIFA
BJIF
JDIF
SURS
STSA
SFBF
TRA

The above is a long division problem in the proper format, with each numeral replaced by a letter. Can you solve it?

My program TC-41 Long Division Cryptograms, will generate an infinite number of such puzzles for you, and help you to solve them - and it only costs \$3.00. It took me a week to program, and I've sold 12 copies in 2 years! Doesn't anyone like to exercise their brains anymore?

TIGERCUB CHALLENGE

```
100 FOR J=1 TO 7 :: READ M$
:: PRINT M$ :: NEXT J
30000 DATA AAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA,BBBBBBBBBBBBBB,BB
BBBBBBBBBBBB,CCCCCCCCCCCC,
DDDDDDDDDDDDDD
30010 DATA "TESTING",,,,,,
,,,,,,""TESTING""
>RUN
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
BBBBBBBBBBBBBB,BBBBBBBBBBBBBB
CCCCCCCCCCCCCCCC
DDDDDDDDDDDDDD
"TESTING"
,,,,,,""TESTING""
$ READY $
```

Can you run this program and get these results? You won't even be able to key in that last DATA item! So, how was this programmed? No, there are no redefined characters!

Do you need something educational? Here is a little routine to give the plural endings for most words. I will leave it to you to develop further - and see if you can teach the computer the plurals of PANTS, TOOTH, MAN, FUNGUS, DATA and the other inconsistencies of the English language.

```
100 REM PLURAL ENDINGS
by Jim Peterson
110 INPUT M$
120 Z%=SE6$(M$,LEN(M$),1)
130 Y%=SE6$(M$,LEN(M$)-1,2)
140 ON POS("EFHSXYZ",Z%,1)+1
GOTO 270,150,190,180,250,250,220,250
150 IF SE6$(M$,LEN(M$)-2,2)<
>"IF" THEN 270
160 PL%=SE6$(M$,1,LEN(M$)-2)
&"VES"
170 GOTO 280
180 IF (Y%="CH")+ (Y%="SH")TH
EN 250 ELSE 270
190 IF (Y%<"LF")$(Y%<"RF")
$(Y%<"AF")$(M%<"HOOF")THEN
270
200 PL%=SE6$(M$,1,LEN(M$)-1)
&"VES"
210 GOTO 280
220 IF (Y%="AY")+ (Y%="EY")+ (
Y%="OY")+ (Y%="UY")THEN 270
230 PL%=SE6$(M$,1,LEN(M$)-1)
&"IES"
240 GOTO 280
250 PL%=M%&"ES"
260 GOTO 280
270 PL%=M%&"S"
280 PRINT PL$
290 GOTO 110
```

If you want to turn that into a quiz, change line 110 to READ M\$, change line 280 to PRINT M\$; PLURAL?":. Add lines -
281 INPUT Q\$
282 IF Q%<PL\$ THEN 285
283 PRINT : "RIGHT!":
284 GOTO 110
285 PRINT : "WRONG! PLURAL OF ";M\$; " IS ";PL\$:
300 DATA BOX,WATCH,WIFE,BOY
(And as much more as you want)

Just one more optional refinement to my Menu Loader. If you want to use a filename ending in an asterisk for those Basic programs which will not run in XBasic, this change will keep you from loading and crashing them.

```
420 CLOSE #1 :: IF SE6$(PG$(K),LEN(PG$(K)),1)="" THEN D
ISPLAY AT(12,1)ERASE ALL:"RE
```

TURN TO BASIC AND LOAD BY:" TYPING OLD DSK1."&PG\$(K):: STOP

The idea of a program that writes a program has stirred up a little interest, so here's another. This routine will aid you in formatting your screen text into neat 28-column lines, and will save the text in program lines of DATA statements. When you are ready to save, type @@@ and enter as the last line, then NEW and MERGE DSK1.LINEFILE

```
100 !LINewriter
- by Jim Peterson
130 CALL CLEAR :: OPEN #1:"D
SKI.LINEFILE",VARIABLE 163 :
: LN=30000
140 FOR R=1 TO 24 :: DISPLAY
AT(R,1)SIZE(1):" " :: ACCEP
T AT(R,0)SIZE(-28):A$ :: IF
A$="" THEN 180 :: B$=B%&C
HR$(200)&CHR$(LEN(A$))&A$
150 X=X+1 :: IF X/4=INT(X/4)
THEN 160 ELSE B$=B%&CHR$(179
):: GOTO 170
160 GOSUB 210 :: LN=LN+10
170 NEXT R :: X=0 :: CALL CL
EAR :: GOTO 140
180 IF B$="" THEN 200 :: IF
SE6$(B$,LEN(B$),1)=CHR$(179)
THEN B$=SE6$(B$,1,LEN(B$)-1)
190 GOSUB 210
200 PRINT #1:CHR$(255)&CHR$(
255):: CLOSE #1 :: END
210 PRINT #1:CHR$(INT(LN/256
))&CHR$(LN-256*INT(LN/256))&
CHR$(147)&B%&CHR$(0):: B$=NU
L$ :: RETURN
```

Here's something for "JET" and Danny and Gene and all the rest of my friends in Alabama - and in all the rest of Dixie. You've never seen fireworks quite like these before!

```
100 CALL CLEAR :: PRINT TAB(
5);"ALABAMA 4th of JULY": :
: : : : : "programmed by
Jim Peterson" :: FOR D=1 TO
200
110 NEXT D :: RANDOMIZE
120 DIM S$(12),A$(16),S(16),
```

```

SX$(15)
130 DATA 196,220,247,262,294
,330,349,392,440,494,523,587
,659
140 FOR J=4 TO 16 :: READ S(
J):: NEXT J :: FOR SET=2 TO
14 :: CALL COLOR(SET,1,1)::
NEXT SET :: CALL SCREEN(2)
150 DATA 00,18,24,3C,42,5A,6
6,7E,81,99,A5,BD,C3,DB,E7,FF
160 FOR J=1 TO 16 :: READ A$(
J):: NEXT J
170 FOR CH=40 TO 136 STEP 8
:: FOR L=1 TO 4 :: X=INT(16*
RND+1):: B$=B$&A$(X):: C$=A$(
X)&C$ :: NEXT L
180 SX$(CH/8-4)=B$&C$ :: CAL
L CHAR(CH,B$&C$):: GOSUB 350
:: B$=NULL$ :: C$=NULL$ :: NE
XT CH
190 FOR J=1 TO 12 :: FOR L=1
TO 6 :: X$=CHR$(INT(13*RND+
5)*8):: B$=B$&X$&X$ :: C$=X$
&X$&C$ :: NEXT L
200 S$(J)=B$&C$ :: B$=NULL$ :
C$=NULL$ :: NEXT J :: CALL
MAGNIFY(2)
210 FOR J=1 TO 12 :: DISPLAY
AT(J,3):S$(J):: NEXT J :: X
=1 :: FOR J=13 TO 24 :: DISP
LAY AT(J,3):S$(J-X):: X=X+2
:: NEXT J :: CALL DELSPRITE(
ALL):: FOR D=1 TO 200 :: NEX
T D
220 DATA 1,11,7,1,9,7,2,7,4,
2,4,7,1,7,4,1,4,8,1,4,9,1,4,
10,2,11,7,2,7,11,2,11,7,2,9,
4
230 DATA 2,12,5,2,5,12,3,12,
7,1,11,7,3,12,5,1,11,7,1,12,
5,1,13,4,1,14,5,1,15,10
240 DATA 6,16,7,1,14,9,1,11,
7,6,14,4,1,11,7,1,9,4,6,11,6
,1,9,6,1,9,7,6,7,4
250 DATA 1,11,7,1,13,4,2,14,
9,2,16,11,3,15,4,1,14,9,2,12
,10,4,14,10,2,12,7,6,15,10,2
,12,8
260 DATA 6,15,6,1,11,6,1,13,
4,2,14,9,2,16,14,3,15,11,1,1
4,9,2,12,10,2,13,7,3,14,10,1
,12,10
270 DATA 2,11,7,2,9,4,3,14,9
,1,9,5,2,9,4,4,8,4,2,9,4,6,7
,4,2,9,4,6,8,4,2,12,5
280 DATA 2,11,7,2,9,4,3,14,7
,1,16,7,2,15,10,4,14,9,2,9,4
,6,7,4,2,9,4,6,8,4,2,12,10
290 DATA 2,11,7,2,9,4,3,16,1
1,1,14,9,2,15,4,2,14,7,2,14,

```

```

9,6,14,11
300 FOR N=1 TO 96 STEP 3 ::
READ T,A,B :: CALL COLOR(A-2
,A-2,1):: CALL COLOR(B-2,B-2
,1):: FOR TT=1 TO T :: CALL
SOUND(-999,S(A),0,S(B),5)::
NEXT TT
310 CALL COLOR(A-2,1,1):: CA
LL COLOR(B-2,1,1)
320 NEXT N :: RESTORE 220 ::
FOR N=1 TO 252 STEP 3 :: RE
AD T,A,B :: CALL COLOR(A-2,A
-2,1):: CALL COLOR(B-2,B-2,1
):: FOR TT=1 TO T :: CALL SO
UND(-999,S(A),0,S(B),5):: NE
XT TT
330 CALL COLOR(A-2,1,1):: CA
LL COLOR(B-2,1,1)
340 NEXT N :: FOR J=5 TO 30
:: CALL SOUND(-999,S(A),J,S(
B),J):: NEXT J :: RESTORE 22
0 :: FOR CH=40 TO 136 STEP 8
:: GOSUB 350 :: NEXT CH ::
GOTO 190
350 CALL MAGNIFY(1):: CALL S
PRITE(0CH/8-4,CH,13*RND+3,20
0,128,-30,RND*20-RND*20):: R
ETURN

```

The Home Computer Magazine, Vol. 4 No. 3, had a program called Elementary Addition and Subtraction, which generates random numbers between 1 and 5 for elementary math practice.

The first time I tried it, it asked me for the answer to 1 + 1. When I answered correctly, it produced another random problem - 1 + 1 again!

This is known as the idiotic computer syndrome, and it helps us to remember that our computers are still no smarter than their programmers!

Fortunately, this bit of idiocy is easy to cure. Try this -

```

100 RANDOMIZE
110 X=INT(5*RND+1)
120 IF X=12 THEN 110
130 X2=X
140 PRINT X;
150 GOTO 110

```

Do you see how it works? The first time you

get a number, X2 will equal 0 because it has never been given a value. X will be selected as a number between 1 and 5. Let's suppose it is 2. Line 120 compares it with X2; 2 is not equal to 0, so the program continues to line 130, where X2 now picks up the value of 2, then on to print the value, and back to 110. Now, suppose that the random factor in line 110 picks 2 again. Line 120 finds that 2=2, X=X2, and sends the program back to 110 to pick a different number.

If you want to avoid a repeat until after two times, change line 120 to read 120 IF (X=X2)+(X=X3)THE N 110 and add a line 125 X3=X2.

For a longer series without repeating, it might be better to use this method.

```

100 A$="ABCDEF6HIJ"
110 FOR J=1 TO 10
120 RANDOMIZE
130 Y=INT(RND*LEN(A$)+1)
140 X=ASC(SEG$(A$,Y,1))-64
150 A$=SEG$(A$,1,Y-1)&SEG$(A
$,Y+1,LEN(A$))
160 PRINT X
170 NEXT J
180 GOTO 100

```

That will give you a random series of 1 through 10 and then repeat with a different random series. Adjust the number of letters in the string A\$, and the corresponding "TO" value in 110, for whatever you require.

Several newsletters recently have published articles on the "program that you never run" - because it consists entirely of REM statements!

For instance, you can keep a list of the members of your users group, using their membership number for the program line number,

followed by REM (or ! in XBasic) and their name and address. For a printed list, just LIST the program to the printer. To change someone's address, or to delete a deadbeat who doesn't pay his dues, just edit the program. You can also LIST the program to disk to create a DIS/VAR 00 file which you can then load into TI-Writer and use its editing features, FindString, etc.

The same method can give you a tickler file, or appointment calendar, which is just as good as some rather complex disk filing programs written for this purpose. Just use the month number (1-12) and date (always in two digits, 01-31) for the line number -

```

1000 !buy birthday pres
sent for wife!
1009 !wife's birthday!
1010 !apologize to wife for
forgetting birthday

```

You can schedule several things in one program line -

```

1011 !get haircut/change oil
in car/pinch secretary.....
- but it might be better
to add an extra digit (0-9)
to the line number and
schedule separately -
10110 !get haircut
10111 !change oil

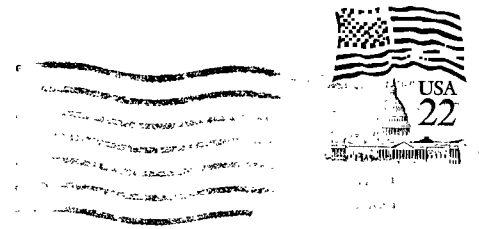
```

Then, if something doesn't get done, just use the REDO key to change the line number and reschedule it for another date. You can print out a list of the day's chores by simply LIST "PI0":7010-7019 (did you know you could do that?)

MEMORY FULL IN LINE 470

- Jim Peterson

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ALBERTA, CANADA T5J-3L1

```
*****  
*      MMM   MMM   IIIIII   CCCCCC   RRRRRRRR   00000000   *  
*      MM M M MM   II      CC      RR      RR      00      00   *  
*      MM M M MM   II      CC      RRRRRRRR   00      00   *  
*      MM  M  MM   II      CC      RR      RR      00      00   *  
*      MM      MM   II      CC      RR      RR      00      00   *  
*      MM      MM   IIIIII   CCCCCC   RR      RR      00000000   *  
*  
*  
*  
*      The MID ILLINOIS COMPUTER RESOURCE ORGANIZATION   *  
*****
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