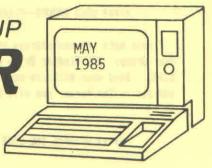
# CEDAR VALLEY 99'ER USER GROUP

# NEWSLETTER



#### NEWSLETTER TOPICS

- 1. Next Metting Reminder
- 2. Minutes From May Meeting
- 3. Our Software Committee Wants Work!
- 4. User Groups-- Please Note!
- 5. Upgrade The Door Prizes!
- 6. Software For Free?
- 7. The Phoenix Rises Again!
- 8. Welcome New Members
- 9. Software Library News
- 10. 99/4A National Assistance Group News!
- 11. Newest HCM Now Available
- 12. Buy and Sell
- 13. Myarc A Little Company With a Big Reputation
- 14. Tips From The Tigercub
- 15. CV99'er UG Officers/Chairpersons
- 16. Rem

# \*\*\*\*\* NEXT MEETING REMINDER \*\*\*\*\*

The regular monthly meeting of the Cedar Valley 99'er User Group will be June 10, 1985, at 7:00 pm in the Junior Achievment Bldg., 330 Collins Road NE. The usual ramblings will be augmented by our Extended Basic Class. Mike Bonifazi will give a demonstration of a program he is currently working on. The program, called Sorcerer, is an adventure series that is about finding magical objects, fighting dragons and thieves, casting spells, and survival. It has graphics and text, takes 32K memory expansion, and a disk system. He is also working on a cassette version that has text only. Door prize will be awarded. Mark your calendar now, Tom and Ellen, for June 10--no excuses this time!

# \*\*\*\*\* HINUTES FROM MAY MEETING \*\*\*\*\*

The May 13 meeting was called to order at 7:00PM by president Jim Green. The minutes of the April meeting as printed in the newsletter were approved. The financial report was read by treasurer Ed Hayek and approved.

Old Business: A console was purchased for the club's system.

New Business: The following motions were made and passed: a software development committee be formed, a hardware development committee be formed, the hardware committee chairperson would be appointed by the president, the hardware committee was allocated a maximum of \$50 to develop their projects. The choices to start are either an RS232 board or a memory expansion board.

Door prizes were discussed, and it was suggested that better door prizes be given. The executive board will seek input from the total membership.

The demonstration was given by Jim Trainor and several of the Extended Basic class members. There was an impressive array of hardware brought in, and examples fo programming details were given for the game of Life and Tic-tac-toe.

Gary Bishop, Secretary

# \*\*\*\*\* OUR SOFTWARE COMMITTEE WANTS WORK! \*\*\*\*\*

At the May meeting, our software committee asked to be able to write programs for members in need. So, if you have a task for your TI 99/4A, but don't have the proper program available, give your assignment to our User Group's software committee. You will get a unique program written just for you, and the club will get the same program added to the library. Phone or send your software problems to Jim Trainor or Jim Green.

NOTE:

If you would like to help with this committee, please call Jim Trainor.

#### \*\*\*\*\* USER GROUPS--PLEASE NOTE! \*\*\*\*\*

Please note the new address of the Cedar Valley 99'er User Group: 288 Windsor Drive NE, Cedar Rapids, Iowa 52482. Send your exchange newsletter to the above address. (The former one will be vacated in 30 days!)

# \*\*\*\*\* UPGRADE THE DOOR PRIZES! \*\*\*\*\*

A vocal minority asked at the last meeting if we couldn't try to give away more impressive door prizes a incentives to attend the monthly meetings. (Ahh--so soon people forget! It wasn't too long ago that we had no door prizes, yet we had better attendance!) Anyway, the minority became a majority when the notion was voted, so your officers are tasked to come up with some valuable (translated: more expensive) prizes for the monthly giveaway. A random sampling of opinions says that people want books (with software), magazine subscriptions, Navarone's Widgit, and --get this-- software from our library!

What would you recommend for door prizes? Call one of us this week with your suggestions, even if you think someone else has given us your idea. We will then order the most popular recommendations for future meetings.

Remember--you must be at the meeting to have a chance for the door prize!

Jim Green

# \*\*\*\*\* SOFTWARE FOR FREE? \*\*\*\*\*

The latest trend in the TI world seems to be the fast expansion of FREEWARE, or software that may be obtained for no cost. The idea is not new (Jim Peterson has been especially good to us), but the quantity and quality of the stuff is increasing like the weeds in my garden. Freeware comes in two basic varieties (no pun intended). Many programs are really public domain, which makes them free of charge. Others are put out initially for free, with the stipulation that the user who feels the program has value should send a fee or donation to the author as payment. He or she should then be encouraged to write more freeware. Most authors stipulate that the donation should never be more than \$10.

Freeware is available by mail, or from the Source and Compuserve, or from your friends. MicroPendium and other TI-related magazines usually list the better freeware sources. If you have received any, why not share it with the group?

Jim Green

# \*\*\*\*\* THE PHOENIX RISES AGAIN! \*\*\*\*\*

Rumors and stories have been flying through the various user group newsletters about the new 99/4A compatible computer to be shown in Chicago in June. One company in Canada is taking letters of encouragement from TI owners so that they may tell the manufacturer how much interest there is in a larger, faster computer that will run TI software.

The latest MicroPendium now says that no one knows the facts about the new computer, and no company has been chosen as a marketing research representative. Yet this magazine believes that the computer really will be shown in June at the Computer and Electronics Show. Who do you believe? Who is the manufacturer? Is there really a new computer coming? Who will buy one?

We will keep you informed as details (and more rumors) become available. Meanwhile, if you want to express your opinion, write to Computer, c/o Micropendium, PO Box 1343, Round Rock, TX 78680.

NEWSFLASH!...After I wrote the above article, the Northeast Iowa Home Computer User Group newsletter arrived with related news on the new computer. The developer apparently is Myarc, Inc. (maker of the MPES/50 expansion system), and they have decided not to show the machine at the Chicago CES. According to the newsletter, Myarc decided to put the money into the computer, rather than pay for display space.

# \*\*\*\*\* WELCOME NEW MEMBERS \*\*\*\*\*

The following new member has joined the UG in the last month. We welcome him and ask that he share his talents and ideas with all of us.

Dale Hovden

# \*\*\*\*\* SOFTWARE LIBRARY NEWS \*\*\*\*\*

Well, I finally have reviewed all the new programs. We have about 50 new and a couple of updated old programs. We received various game, music, and educational programs in the past few months. Keep those donations coming, and watch for a new catalog soon!

Bruce Winter

# \*\*\*\*\* 99/4A NATIONAL ASSISTANCE GROUP NEWS! \*\*\*\*\*

I just received the newsletter and product update from the above group, so I will bring it to the June 10 meeting. They say they have Extended Basic--newest version with 200 page manual--for \$48.95, which is a good buy. Also, they now accept Visa and Mastercard.

Bruce Winter

#### \*\*\*\*\* NEWEST HCM NOW AVAILABLE \*\*\*\*\*

As I predicted at the last meeting, we received our copies of the latest HOME COMPUTER MAGAZINE for distribution. As always, they will be available at the monthly meeting (June 10, for those who missed the opening article) on a first-come basis for \$2.50. As the flight attendants say, correct change is always appreciated.

Ed Hayek

# \*\*\*\*\* BUY AND SELL \*\*\*\*\*

The following items are available from Dave Dalton, 377-1715, or at the June meeting.

1. 2.	Super Demon Attack Typewriter (word processor) (Disk & demo programs)	\$ 5.00 15.00 or best offer
3.	Parsec Module	5.00
4.	Computer paper	5.00
	(6,000 sheets)	dulli same anne
5.	RS-232 cable	10.00

#### \*\*\*\*\* CV99'ER UG OFFICERS/CHAIRPERSONS \*\*\*\*\*

President:

Jim Green 288 Windsor Dr. N.E. Cedar Rapids, IA 52402 377-4073 (home) or 395-1898 (office) Vice

President: Bruce Winter

242 11th St. N.W. Cedar Rapids, IA 52405

362-6196

Secretary:

Gary Bishop 860 Westview Dr. Marion, IA 52302 377-9574

Treasurer

Ed Hayek

3864 Lost Valley Rd. S.E. Cedar Rapids, IA 52403

Program

Chairperson: Dave Dalton

920 Hillview Dr. Marion, IA 52302

377-1715

Publicity

Chairperson:

Paul Mortensen

393-6022

Education

Chairperson: James Trainor

2001 Mount Vernon Rd. Cedar Rapids, IA 365-2047

Newsletter

Editor:

Dan Davis

1663 10th St. N.W. Cedar Rapids, IA 52405 365-6653 (home) or 395-3619 (office)

# \*\*\*\* REM \*\*\*\*

The CEDAR VALLEY 99'er USER'S GROUP NEWSLETTER is published by the Cedar Valley 99'er User's Group in the Cedar Rapids/Marion, Iowa area. Members are encouraged to contribute articles. Opinions expressed are those of the writer and not necessarily those of the Cedar Valley 99'er User's Group, its Officers, editor, or members. Other user groups may copy or use any article published in this newsletter, without the written consent of the CEDAR VALLEY 99'er USER'S GROUP, as long as credit is given to our group.

# Myarc - A Little Company with a BIG reputation by Anne Dhein

Every serious TI-99/4A user has heard of Myarc, Inc. Even before Texas Instruments bowed out of the Home Computer business, Myarc was creating peripherals for the 99/4A. The first were Myarc's Winchester Disk and Controller System, which brought hard disk capability and reliability to users of the 99/4A.

After TI ceased production on the 99/4A and its peripherals, Myarc, was one of the companies that stepped into the void and began supplying anxious users with RS232's and 32K Memory Expansions. These two cards, designed specifically for the TI-99/4A Peripheral Expansion Box, completely duplicate the functions of the original TI cards.

The RS232 Interface card has added features as well. It has a maximum baud rate of 19200 - effectively doubling the maximum speed. The parallel I/O port has been redesigned so that it is fully compatible with Centronics and other standard parallel I/O printers. A new utility simplifies the device name - simply type in "P" instead of "RS232". And for the advanced user there is a new parallel I/O inverted input option. The RS232 card comes complete with 2 serial ports, 1 parallel I/O port and a user manual.

Myarc also produces a Disk Drive Controller Card which, while totally compatible with the 99/4A, has features not dreamed of when the original TI disk system was introduced. Like CorComp, Myarc has replaced the TI Disk Manager Command Module with a faster, more user-friendly floppy-based disk management. The system suports both single- and double-density formatting with up to four single- or double-sided disk drives.

If your computer area is becoming cramped for space then Myarc's new Mini-Peripheral Expansion System may be for you. When connected to the 99/4A console, Myarc's MPES/50 System performs the same functions (expanded memory, RS232 interface, disk memory system, and disk drive) as does the TI Peripheral Expansion System including the 32K memory expansion card, RS232 card, disk controller card and disk drive. The unit is surprisingly small for the amount of stuff it holds. It plugs into the side of the computer where the Speech Synthesizer goes, and makes a very compact arrangement. The system comes complete with the TI Disk Manager II Module and a User's Manual.

Myarc's newest development is a 128K Memory Expansion Card that, as of this writing has no equal on the market. Not only does it expand the 99/4A RAM to a full 48K just like the original TI card, but there are two additional features that are really exciting. It has a RAM disk feature and a Print Spooler.

The RAM disk lets the user make use of up to 96K of memory just as though he were using a floppy disk. The number of files that can be stored is limited only by the file directory just as with a real disk, and all the capabilities of a disk are present (except permanent, removable storage). The RAM disk even has provisions for making itself look like DSK1 so that you can use it with software like TI-Writer and Multiplan. Because there are none of the delays associated with a mechanical disk drive, the savings in speed is quite significant.

The Print-Spooler feature provides buffered output to run printer or modem, and, AT THE SAME TIME, you can continue to operate your computer. This means that while you are printing out a file which has a number of pages, you can continue to work on it, or even start a new file. The remainder of the 96K memory not allocated to the print spooler is free to be used in simultaneous RAM disk operation.

The card comes with adaquate, well-printed documentation.

Traditionally, Myarc has given very little advance notice on their new products. At the time it is announced, the item is usually ready, or nearly ready, to be shipped. This keeps customers happy because everyone in the business (most of all the end user) is tired of being promised new goodies that are delayed time after time, or that never materialize. For this reason, the staff at Myarc were rather sorry about the rumors that have abounded these last weeks (see accompanying article) on a new computer that may be coming out soon.

Yes, Myarc does have plans to produce their own computer. The exact specifications are unknown, except that it will be compatible with most of the present TI cartridges and software, and, it will have a LOT of memory capability. Anyone who is familiar with the exceptional quality of the Myarc line of peripherals cannot fail to be excited by the possibility of this new computer. But when??? No one is sure yet.

There's a lot of real enthusiasm, as well as guarded excitement for this project at Myarc. And going by past experience, if any company could do it, Myarc can!

Dhein's Hardware carries the full line of Myarc peripherals, and is always happy to answer any questions. If you need more technical information on the architecture of any unit in the Myarc line, you can contact Myarc at P.O. Box 140, Basking Ridge, New Jersey, 07920. Their telephone number is (201) 766-1700.

EDITOR: We have some literature on the MYARC Disk Controller and the MYARC 32/128K Memory Expansion with RAM Disk. It will be on the table at the meeting for those who want to look at the information, we did not get enough copies to include it in each newsletter.

The additional rumor that I hear about the MYARC computer is that it will have 128K and include: EXpanded Basic, C-Basic, Pascal and Word Processing all built in. Projected price is \$450 and upwards compatible with the 99.

We must hope that they make it to market, please stay with us and we will keep you up on the latest information as we get it.

- The state of the second of t

Copyright 1985

TIGERCUB SOFTWARE 156 Collingwood Ave. Columbus, OH 43213

Distributed by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. Hay be reprinted by non-profit users groups, with credit to Tigercub Software.

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 15 a diskfull of 100 (that's right. 100!) IBasic utility subproprass in MERSE forest. 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 ausic. 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 casette, packing and postage, or \$3.00 for diskette, PPM) bome users groups charge their members that much for public domain programs! I will send you my descriptive catalog for a dollar, which you can then deduct from your first order.

I thought that my 28-Column Converter, as published in Tips #18, was finally foolproof, but someone found a way to print a program incorrectly with

I'm sure you know that characters 127-143, and on up to 159 in Basic, can be and used in redefined graphics. You probably also know that these redefined characters can be put into PRINT DISPLAY OF AT statements, by holding down the CTRL key as you type them. If you load a program containing such redefined characters and LIST it, they will appear as blanks. If you RUN the program, so that they are redefined by the CALL CHAR statements, and then LIST it again, they will show up in their redefined form - but if you print out the program on your printer, they will still appear as blanks. So, before you publish a program, it's a good idea to RUN it and LIST it, and look for any of those greatins.

If you do want to publish such a program, this fix will take care of it by underlining all characters that must be typed with CTRL down (except that lower case v is typed with FCTN down). It's slow, so only use it when you need to.

190 1F W#="E" THEN 195 :: PR INT #2:".TL 126:94;" :: PRINT #2:".TL 123:64;" :: PRINT #2:".TL 125:38;" :: PRINT #2: ".TL 124:42;" :: PRINT #2:" .TL 92:46:" :: PRINT #2:".NF

195 PRINT "Does the program contain": "redefined characters above": "ASCII 126? (Y/N)" 196 ACCEPT AT(24,1) VALIDATE("YN"): 198 282 IF 408="N" THEN 290 283 FOR J=1 TO LEN(LS) 284 A=ASC(SE6S(LS,J,1)):: IF AC(127 THEN L25=L25&CHRS(A): 60TU 288 285 IF A=127 THEN A=118 ELSE

IF A=128 THEN A=44 ELSE IF

A=155 THEN A=46 ELSE IF A=15 6 THEN A=59 ELSE IF A=157 TH EN A=61 ELSE IF A=158 THEN A =56 ELSE IF A=159 THEN A=57 ELSE A=A-64 286 L28=L26&CHR\$(27)&CHR\$(45) &CHR\$(1)&CHR\$(A)&CHR\$(27)&C

HRS(45)&CHRS(0) 288 NEXT J :: LS=L26 :: L25=

That should do it, unless the number of added control characters stretches the line beyond 80 characters. Such is the case with the following, which I had to type in manually (It also contains low ASCII characters which the printer misinterprets as controls).

### TIGERCUB CHALLENGE

100!The Unprintable Unkeyable Program!
110!To shuffle the numbers 1
to 255 into a random sequence without duplication
120!The strings contain the ASCII characters 1 to 127 and 128 to 255
130!Most of the ASCII characters below 32 or above 159 cannot be input from the keyboard
140!So how was this program programmed?
150 Ms=2

!""9872'()\*+,-./O
123456789:;<=>?@ABCDEF6HIJKL
MNOP@RSTUVWXYZ[\1^\_'abcorfgh
ijklenopgrstuvwxyz(!)"
160 M28="

170 Ms=Ms&M2s

180 L=LEM(Ms):: RANDOMIZE ::
X=INT(L&RND+1):: N=ASC(SE6s
(Ms,X,1)):: Ms=SE6s(Ms,1,X-1
)&8E6s(Ms,X+1,LEM(Ms))

190 PRINT N;:: IF LEM(Ms)=0
THEN STOP ELSE 130

GROCERY SHOPPING LIST

Are you desperate for some way to convince your wife that your computer and PEB and printer and all are not just a too-expensive plaything? Maybe this will do the job.

The first thing to do is to prepare a file of the grocery items she might want to buy. It will be especially useful if you can list the items in the sequence in which she will come to them in the aisles of her favorite store. This little program will set up the file. Type EMD when you are finished.

100 OPEN #1: "DSK1.BUYLIST", 0
UTPUT
110 INPUT A\$
120 IF A\$="END" THEN 150
130 PRINT #1:A\$
140 60T0 110
150 CLOSE #1

If you have TI-Writer, you can also use that to create the file, edit it and add to it - but BE SURE to delete all the carriage return symbols and any blank lines at the end. Save it under the filename BUYLIST.

Next, this program will hopsfully get your wife to actually sit down at the keyboard and try out your computer. It will go through the list and ask if she wants to buy. If she types in any quantity other than 0, it will output the item name and quantity to the printer. At the end, she will be given the opportunity to add any other items.

100 CALL CLEAR 110 OPEN #1: "DSK1.BUYLIST", I NPUT 120 OPEN #2: "PIO" 130 LIMPUT #1:A\$ 140 IF EOF(1) THEN 210 150 DISPLAY AT (12, 1) 1A8 160 DISPLAY AT (12, LEN (A\$)+2) 1 00 170 ACCEPT AT (12, LEN(AS)+2)S 1ZE (-4)19 180 IF Q=0 THEN 130 190 PRINT #2: AS&" "&STRS (Q)& " "&CHK\$ (175) 200 6010 130 210 DISPLAY AT(12,1): ADDITE BNAL? Y" 220 ACCEPT AT (12, 13) VALIDATE ("YN")SIZE(-1):08 230 IF MS="N" THEN 300 240 DISPLAY AT (12,1): "ITEM?" 250 ACCEPT AT(12.7):A8 260 DISPLAY AT (14,1): "QUANTI TY7" 270 ACCEPT AT(14,11):0 280 FRINT #2: AS&" "&STKS(Q)& " "&CHR\$ (175) 290 6010 210 300 CLUSE #1 310 CLOSE #2 320 END

The list will be in enlarged print, so that no one in the store will see her putting on her reading spectacles. And after each item and quantity is a blank square to be checked off when she picks up the item.

You might also point out that she could use the checkoff blocks to mark the items she has coupons for, and she could jot down prices on it to be sure she isn't cheated at the checkout counter, or to shop for better bargains elsewhere.

The program is set up tor the beain printer. You may need to change the "Plü" to the name of your printer, and other printers may not have the open block character CHR\*(175) available.

Of course, you can also use this program for more important things, such as shopping for computer software....!

If you type the period key while holding down the

CTRL kev. the printer interprets resulting the blank space as CHR\$ (27). even though the computer knows 1t 18 really CHR\$ (155). Since CHR\$(27) is the ESC or "escape code" tells the printer to which interpret the following characters 25 function command codes, you can for instance set up the printer eachasized double-struck double-width underlined italics by OPEN #1: "PIO" :: PRINT #1: " E 6 w"&CHRs(1)&" -"&CHRs(1)&" 4 ". using CTRL . In the 1 blanks. have been overlooking another verv usetul teature. the skip-over perforation. PRINT #1: " N"&CHR\$(6), again with CTRL . in the blank, causes the paper to advance to the top of the next page when there are only 6 lines left at the bottom of the page (providing that you started at the top, of course). This makes it possible to LIST "PIO" a program, or PF PIO from TI-Writer Editor, without printing right across the perforations.

Shosts! Did you ever read data from a file, and find that you were getting data from a file that was no longer on the disk? It can happen, at least if you are reading from a KELATIVE file in the UPDATE mode. When you delete a file, only its address is actually deleted - the data remains on the disk until it is overwritten by a new file. If the new file is shorter than the old one, and you try to read beyond the end of the file, you may awaken the ghost!

Are you making use of those special characters that are available on your Gemini printer? You didn't know about them? Try this.

100 DPEN #1: "PID" :: 110 PRINT #1:" (hold down the CTRL key and type 1234567/ and then hold down the FCTN key and type <>/0; BHJKLMMQY ) ". RUN . Surprised? Some of those can be VELA useful, such as the true division sign that you get with FCTM H. There are many more of these that you can access by CHRS. For a complete list of them and their CHRS codes, run this -100 OPEN \$1:"PIO" :: FOR CH=160 TO 254 1: PRINT #11CH1CHR#(CH)111 NEXT CH 11 CLOSE #1. Unfortunately. these can't be used out of Il-Writer.

Here's a handy little routine to practice up on your typing.

100 CALL CLEAR

110 CALL CHAR (94, "3C4299A1A1 99423C°) 120 CALL SCREEN(5) 130 CALL VCHAR (1, 31, 1, 96) 140 CALL COLOR (1,8,16) 150 FOR SET=2 TO 12 160 CALL COLOR (SET. 2.16) 170 NEXT SET 180 PRINT TAB(10); "TIGERCUB" : :TAB(8); "TOUCH-TYPING": :T AB(11); "TUTOR": : TAB(9); " T idercub Software": : 190 REM by Jim Peterson 200 PRINT " Watch the scree n, not the": keyboa. . ": :" Letters and numbers will\* 210 PRINT " appear on the sc reen orid";" in position cor responding";" to their keybo ard position.": i" Type the m and they will" 220 PRINT " disappear.": 1 1 " Press any key" 230 CALL KEY (0, K, 8T) 240 IF ST=0 THEN 230 250 CALL CLEAR 260 CALL CHAR (32, "FF80808080 80808") 270 CALL VCHAR(1,30,1,192) 280 CALL HCHAR (14,1,1,384) 290 CALL VCHAR(1,4,1,14):: C ALL VCHAR (5,6,1,11) 11 CALL V CHAR(8, 7, 1, 6) 1: CALL VCHAR(1

1,8,1,3):: CALL VCHAR(8,29,1

,6) 300 CALL VCHAR (11, 28, 1, 3) 310 CALL CHAR(48, "003A444C54 6444B8") 320 KEY\$="1234567890=QWERTYU IOP/ASDF6HJKL: "&CHR\$(13)&"ZX CVBNM. . " 330 RANDOMIZE 340 K=ASC (SEGS (KEYS, INT (428R ND+1),1)) 350 60SUB 370 360 60TO 420 370 X=POS(KEY\$, CHR\$(K), 1) 380 Y=ABS(X>11)+ABS(X>22)+AB 8(1)33)+1 390 R=Y83 400 C=((X-ABS(Y)1)\*(Y-1)\*11) \$2)+4+Y 410 RETURN 420 CALL HCHAR (R.C.K) 430 CALL KEY (3, K, ST) 440 IF ST=0 THEN 430 450 GOSUB 370 460 CALL SCHAR (R.C. 6) 470 IF 6(>32 THEN 500 480 CALL SOUND (-100, 110, 0, -4 .0) 490 60TO 340 500 CALL HCHAR (R.C. 32)

Here's one for the kids to have fun with. I'm sorry I lost track of who published it.

510 CALL SOUND (-100, 1000, 0, 1

005,0)

520 6010 340

100 CALL INIT :: FOR J=1 TO 100 :: PRINT J :: FOR P=1000 TO 1 STEP -J :: CALL LOAD(-31456,P):: NEXT P :: NEXT J

MEMORY FULL,

Jim Peterson

Cedar Valley 99'er User's Group

288 Windsor Dr. N.E. Cedar Rapids, IA 52402

GARY BISHOP 124-222 860 WESTVIEW DR

MARION IA 52302