

President
Jo Lambert

Vice-President
James Crosson

Secretary
Charles Clines

Treasurer
Charles Bathman



Editor

Gary Fuquay

Reproduction Staff

Sam Weller

Marilee Catalano

VOLUME 3 NUMBER 10

OCTOBER 1985

Next meeting November 9th
At the Hurst Public Library
9 am till 11 am

The reviews, evaluations and opinions contained in
articles in this newsletter are the authors' own
and do not reflect the views of the NET 99er HCUG.

**Northeast
Tarrant
Home Computer
Users' Group**

Devoted to the

TI-99/4A

President's Page

Greetings everyone! Do you realize we are getting near the end of the year. It is time for our thoughts to turn toward the next year and the needs of the NET 99er. We will be looking for new officers soon, so please step forward and tell the nominating committee if you are interested. If we are to continue to grow we need to reorganize the duties of each office. There are many members who want to help but, need to know what is expected of them. The duties are not so very hard if they are spread around. Coordination is the key word. The best way in the world to learn about the use of our computer is to put it to use doing the business of the club. Our sharing of knowledge is the prime reason for the existence of this club. Let's not falter now. We are in need of new ideas on how to do this. We have many levels of information and just as many people who can learn from this information.

A thanks to Roy Willis for his response on my request for a peek into all those newsletters we receive each month. A topic and a place to look that is listed in our newsletter will be very helpful. Hope to see more people making use of all that printed knowledge. A note from someone about a particular subject beats trying to read through all those manuals.

Don't forget about the CHRISTMAS DRAWING. Put \$5.00 in an envelope with your name and Christmas on the front. A complete system for someone.

Our program for november will be a review of "ADVENTURE EDITOR". A "How to write your own Adventure game", using Scott Adams Adventure Series by Gerry Myers. Ken Dominiec will review Editor Assembler on disk.

A MESSAGE TO ALL MEMBERS!!!!!!

On your address label you will find your membership expiration date. You have 90 days from that date to renew your membership. Hope to see you at the next meeting on Saturday November 9, 1985 9:00 AM.

Jo Lambert, Pres.

THE QUIET FAN MAN
Contributed by John Lambert

Due to the response from other users groups I am going to tell all regarding the fans that I have been installing. There are three steps in this process. The first step is to disassemble the PEB, and the second is the electrical work. The final step, reassembly, will be the opposite of the disassembly instructions. If you have any problems you can contact me direct, or through the club.

STEP 1

First, remove all the cards except for the disk controller. Locate the four screws which hold the drive in place and remove them, unplugging the two cables therein. Now remove the drive and controller. Second, turn the peb upside-down, locate and remove all the screws along the outside edge of the PEB on the bottom, on each end, and along the rear (except for the two screws which hold the spacer for the drive). Don't forget the screw behind the #1 card slot on the bottom. There should be a total of seven screws removed from the bottom of the PEB. Third, turn the PEB right side up, remove the two screws on each end of the PEB, remove the three screws on the rear behind the disk compartment, then the three screws behind the power supply. Now, being very careful, slide the outer cover forward, away from the power supply and set it aside, out of the way. Note--on some PEBs the on/off switch will fall off. Don't worry! Fourth, loosen the two screws holding the power supply board and move the power supply out of the way. Next, unplug the two connectors for the fan and remove the four nuts holding the fan in place. Now we go to Step 2.

STEP 2

First, cut the two wires halfway between the connectors and the fan. Take the new fan (with wires already on it) and splice the two wires together. It will probably be easiest to use small wire nuts to splice the wires. Second, you will have to drill out two of the mounting screws for the old fan. Drill out any two of them as long as they are diagonally across from each other. Drill with a quarter inch drill bit. Third, install a grommet in each hole, then mount the fan using washers on each side of the grommet. Plug in the fan and put the power supply back in place. Turn on the PEB to check for proper operation of the fan. If it works you can start to put your PEB back together. If it doesn't work, check all your connections and try again. If it still doesn't work, you might want to check to see if you have gotten a broken fan.

Fan Information

The type of fan I have been using is an Etri five-watt, 3 1/4-inch fan. It is a 115 volt fan. I found some at an electronics surplus house. You can also mail-order similar ones. Check the Computer Shopper Magazine ads. Make sure that you do not get one that is more than seven watts--five watts is best. If you get one that is more than seven watts then it will make just as much noise as the one currently in your PEB. If you have any question or problems, don't hesitate to write me or call me at the above address or phone number. The entire installation should take about an hour to do. Let me know how it comes out!

The above article was reprinted by permission of CENTRAL TEXAS 99/4A USERS GROUP and the author MARK MILAM.

NORTHEAST TARRANT
HOME COMPUTER USERS' GROUP
Minutes, Oct. 5, 1985

President Jo Lambert called the meeting to order and treasurer Charlie Bathman reported that the group has \$335.46 in its account.

President Lambert reminded members of the drawing for a complete 4A system to be held at the Christmas meeting. Members should put their name; address and phone number along with \$5 in an envelope and mail it to Treasurer Bathman to be eligible for the drawing.

Anyone wanting the GraphX program should inform President Lambert so that she can submit an order. At least five orders are needed to buy the program for \$30.

Members also voted to either repair or replace the library's two disk drives which have been causing problems.

Members also voted for the library to acquire Editor/Assembler and Extended Basic cartridges.

Mike Bowen won a drawing for a TI-Writer word processor package.

President Lambert said anyone needing the Forth documentation can buy it from the club, in a binder, for \$5.

There also was a call for formation of more Special Interest Groups, especially in Forth and Extended Basic. The Editor/Assembler SIG meets the Tuesday after each monthly club meeting at the First Baptist Church off Loop 820.

After a buy-sell-swap session and short break, member Leroy Thompson gave a demonstration of the Myarc 128K and disk controller cards.

President Lambert also reminded that members should be thinking of the election of new officers for the coming year. Also, the next meeting will be held Saturday Nov. 9, at 9:00 a.m.

After watching an old Bill Cosby video tape commercial for the 4A, the meeting was adjourned.

Charles Clines, Secretary

TIMELESS TECHNICAL TIPS
by LeRoy Thompson

NOTICE

This article contains opinions that are those of the writer only. They are not necessarily those of anyone who chooses to subsequently publish this article. Permission is hereby granted for this article to be reproduced by anyone, anywhere, with or without credit.

I read with eager anticipation a small news article in the August issue of MICROpendium. It told of a software firm named Asgard which sold a disk cataloging program with the unbelievable capacity of 12500 files. I rushed my \$15 for the program and my \$10 for GRAPHX Companion to Asgard. I received both programs in a short time. My first thoughts on Disk Data Base were--is this really the program that I ordered. I carefully read the instructions and proceeded to duplicate the disks to create my work copies. I used the empty-file, blank master in DSDD to take advantage of the maximum capacity.

The first thing that I noticed after stepping carefully thru the instructions was that when I went to catalog the FIRST disk, the program crashed using my Myarc DD Disk controller. I switched to my CorComp controller and it would run fine. I entered several DSDD disks and had amassed some 380 file names. I sorted by filename and printed out. It gave me 250 file names. HMM! I entered a bunch more and sorted again by filename. I 'rewrote' the file. I asked it to print out ALL in filename order. It proceeded to print out in the exact order that the 800+ files had been entered. This I could have accomplished with a Disk Manager program or even BASIC.

Quoting from the advertisement that came with the program (also that which is currently published): 'With DDB you can now sort and print out your catalog by either diskname or filename, print it out unsorted, or selectively print out all entries that contain a string you enter (for instance, you can have it print out all your files named LOAD).

I wrote to Asgard Software and told them of my concerns. The return letter that I got from them started with a genuine apology about the program not running on the Myarc system. They indicated that they would work on a fix. That was the first paragraph. They used the next THREE pages telling me the development path that DDB took and telling me why I didn't need an alphabetized list 12500 files long. They also told me what was wrong with all existing cataloging programs. I know from my own employer's history that you get nowhere trying to tell your customer what he wants. Several contract awards were lost in the past.

In my opinion, the advertising for DDB states that I could mold my 12500 entry catalog into an alphabetically sorted list. Irregardless of the reason, that is what I wanted. They failed to meet the stated performance. This is truly a case of CAVEAT EMPTOR.

Looking on the brighter side of things, GRAPHX Companion is just what this non-artist needed. It really is a great companion to GRAPHX. It includes many screens, pictures and clipboard art. It is really handy to have good art to edit from. The only bad words I have, have nothing to do with the art. I read the announcement in MICROpendium and sent the \$10 that was mentioned. The advertising that came with the program (and which was subsequently published) clearly stated that the selling price was \$7. I received no comment or explanation. Dare I deal with this establishment again?

The GRAM KRACKER which has been announced by Miller's Graphics sounds like it will be another winner. Craig even mentions how much hardware is now showing up for the 4A. The GRAM KRACKER promises to

do everything that even the early hackers or TI insiders could do. I am eagerly anticipating a story from someone who has gotten one and done some neat thing with it. I don't think that I will be first this time.

During a recent 'garage' sale by Chris Laletka of Speciality Services, I managed to pick up the remains of a Single Stepper that they once sold. This device provides the hardware single stepper that TI refers to in the E/A manual but never produced. It also has provisions for 8K of RAM on the card. This RAM resides in the >6000 to >7FFF address block. It is possible to load a debugger program here and bring it up during another AL program. This can work wonders when you are trying to learn how someone else's program really works. I will write more on this subject in the future when I learn more of what I can do. No documentation was available to me.

The end of September came and went without any mention of a new 4A compatible computer from the guru in the northeast. Let's all keep our fingers crossed, hold our breath or whatever, that the announcement of the new machine comes soon. The rumors say that it will be announced/introduced at the Chicago TI Faire on November 2. I really hope that we get a chance to hear about it before we spend all our Christmas money on something else. Anyway, next month I will try to offer some gift suggestions for us of the TI family.

I am also getting together an order for SHUGART SA455 slimline drives at \$79.95 each. If you would like to order, please bring the wherewithal to the meeting. If we can get a better price, the difference will be refunded.

User Group Roundup

Well, I am going to try my hand at this. If you can't tell already this is my first time writing for the newsletter. I am Ken Dominiec and I am the keeper of all the User Group Newsletters. There are two things I would like to ask. One is that if you take a binder, please bring it back next month at the meeting so I can update it. I have a stack of newsletters that have to find their home. Next, I would like to start a sign out sheet. This will help me set up new binders and update others if I know that they are out.

My company sent me to Chicago last month and I had the pleasure of attending the Will County Users Group in Will County, Illinois. It is a new group and membership is small, but it is a very friendly group. At the meeting the program was to show how a BBS System works, not only from what we see at home, but what the BBS Sysop sees. It was hard to run it with patch cords and no phone line, but a couple of the members worked throughout the meeting to make it run. With their diligent efforts they made it run, and it was a very interesting demonstration. I would like to say thank you for the hospitality of the Will County Users Group and wish them much success.

As a part of the Newsletter Exchange they gave us some back copies and we have a new folder for them. They are filled with many informative things.

Well to sign off for now.

Memory Emplu,
Ken Dominiec

GOOD NEWS!

According to reliable sources, namely SUPER 99 MONTHLY, MYARC has confirmed that there is a new computer, and it will be shown at the TI-FAIRE in Chicago on November 2nd! The reason for the long delay was due to the lateness of the arrival of the keyboards.

The as yet unnamed and upriced computer will have 256K CPU memory on board, and 64K of VDP memory. The VDP will be in a chip that is compatible with the 99-4/A's 9918A VDP and similiar to the 64K chip that TI decided to discontinue. It will sport an 88 key keyboard and will be 90% compatible with the 4/A in 4/A mode. In the native machine mode, it will address up to 2 megs. of memory, including the 512K available on the MEXP-1 Memory Expansion Card. And it will be compatible with Millers Graphics GRAM Kracker™. Cards that are compatible with TI standards can be used, but MYARC cards are recommended.

There was no mention of an IBM option, but other reliable sources have already confirmed that it would be available.

So, hang on everybody, maybe we'll have the FULL story next month!

FREWARE- IS IT WORKING?
BY ROBERT L. WESSLER
COPR. 1985

When I first heard about Freeware, I was very enthusiastic about it. With TI software being distributed almost solely by mail order, it is virtually impossible to see a program first hand before purchasing it. With the price of software, most people do not want to buy a program without having seen it first. It was my impression that Freeware alleviated this problem. All a consumer had to do was send an initialized disk, return mailer, and postage, or \$5.00 and the programmer would supply the materials, and a request for the program. The program would then be sent to the consumer. The consumer was then left on his honor, if the program was of some use to him, to send the programmer monetary compensation for his efforts. Freeware programs are usually priced at \$10.00 or less. Virtually all of these programs are well written, sophisticated, and on par with commercial software standards. Most of the programs would do well in a side by side comparison with the some type of program for other brands of computers, yet these freeware efforts are priced at 10 to 20 percent of that asked by the authors of those for the other brands.

Is Freeware working? I have contacted several Freeware authors, and experienced Freeware first hand. Here are a few of my conclusions.

I have a Freeware program called TRIVIA 99er, on the market. I have been asked several times if I am happy with the Freeware concept. I have answered each time with a resounding "NO!".

It is my opinion, that the name 'Freeware' was the beginning of the trouble for Freeware authors. Many people see the word free in Freeware and get the idea that the program is public domain. I have tried to come up with a better name than Freeware, but so far I haven't found a suitable one. Freeware does not mean that a program is free, it just means that you can try it before you buy it.

I contacted several Freeware authors and asked them if they were happy with the results of Freeware. Some said yes, some said no, and some said it was about what they had expected. The opinions differed with each author. The satisfaction seemed to depend mainly on the authors expectations going into the Freeware market. No one seemed overwhelmed by it.

There were some who did not expect much and were surprised at the response they did get. There were others who expected too much and were disappointed. There were others like myself who didn't expect much, but were still disappointed at how small the return actually was.

Since we, the authors, only ask for payment if the program is found to be of use by the user, we have been told that we should not expect payment. Maybe we shouldn't, because even the authors with the highest rate of return, (payments for programs sent out), seem to be running only about 25 percent. Personally, of the 100+ programs that I have sent out in the past two and one half months, I have received only one payment. I have been told to be patient, people tend to wait awhile to pay for things. If I were to let an order sit around for 3 months before I got around to sending the program, I'm sure I would hear about it before the 3 months were up. We the authors, however, are supposed to be patient.

There are several things that seem to get to Freeware authors. I think the top of that list is being told by someone how good the program is and how much it is enjoyed, and to please write more programs. All of this without a payment. Another thing is people who send an uninitialized disk with no return mailer and no postage. What is an author to do with this order. So far I have been sending the program, supplying the mailer and the postage, and writing a note telling them that postage and a mailer are required. None of them have felt compelled to compensate me for that or for the program. Is my faith in the system being tested? Yes, severely!

Why do some programs do better on the Freeware market than others? That's anybody's guess. My opinions? There are some programs that are used very frequently, usually utility programs. These programs keep the Freeware authors name in front of the user constantly. When a program is used that often, the user feels that he is getting his moneys worth and sends a payment. Game programs or utility programs which are used only occasionally do not do as well.

I'm not sure why, but the language that the program is written in seems to play a part. People tend to think that programs written in assembly language are intrinsically better than programs written in extended basic. They do not realize that some programs are better written in extended basic. Perhaps this is because most people cannot program in assembly language and do not understand it. Perhaps they feel that since they know extended basic, if they were to sit down at the console they could write a comparable program to the Freeware offering, so it is not worth their while to pay for something they could do. [I would like to see them use that philosophy at a restaurant. They won't pay for dinner because they could cook the same thing at home.]

There are others who have a communistic outlook on software. That is, from each according to his abilities, to each according to his needs. Since I can write a program, and somebody needs that program, it is my duty to write that program for him without charge. The bottom line is, it kills the incentive.

I have been told that there are some who send for the Freeware with no intention of ever paying for the program. These people want it only for their libraries so they can impress their friends. Well, Freeware is only to be paid for if the user finds the program to be of use. To these people I say, pay up. The program is doing exactly what you wanted it to do. You have found a use for it. If you were to go into a bookstore and tell them that you don't want to read a particular book, you just want to have it in your library, what are your chances of them just giving you that book? If you don't want to pay the programmer for the time he spent writing the program, at least send a couple of dollars for his time copying, packaging, and running to the post office with your software. Also, send him a note so he'll know what to expect from you. Otherwise, wait until it shows up in your users group library.

Where do we go from here? I don't know. Most people do not realize how much time it takes to copy these disks, package them, and mail them back. Others feel that when they send the \$5.00 for disk, mailer, and postage, that that also includes the program. I was told by several authors and can attest to it myself, that the rate of payment from these people is very small.

Some authors are ready to change the Freeware system. Some want to demand the payment up front. I feel an up front fee of \$12.50 which will include the disk and disk mailer, is not out of line for a program which was selling for \$10.00. Others aren't sure what the answer is.

Personally, I am taking TRIUIA 99er off the Freeware market for the time being. It may show up in some form under a different name through mail order houses, or it may come back out under a new "Freeware" [I hate that name!] plan. Or, I may just let it sit in my library and gather dust. If you have any suggestions, let me know. I'm fresh out.

TRADERS' PAGE

DESKTOP FILES
HOLD 50 DISKETTES
\$11.00 EA.

KEN DOMINIEC

USER GROUP NEWSLETTER ARTICLES
AS OF 10/7/85

VALLEY Times
NEWSLETTER OF THE VALLEY 99'S. COLUMBUS, GA. 31907

DATE/VOL # ARTICLES OF POSSIBLE INTEREST

VOL1 #7 WINCHESTER HARD DISK MODULAR PROGRAMMING FILE HANDLING
w/FILE MANIPULATOR PROGRAM PART I

VOL1 #8 WORKING IN FORTH DIMENSION II INSTALLING SWITCH TO PRINT
CARTRIDGE SCREEN TO PRINTER FILE HANDLING TIPS PART II

VOL1 #11 DISCUSSION OF ROM CARTRIDGE PORT CRITICLE ON PRK
CARTRIDGE w/PROGRAM TO PRINT ROUTINES WORD PROCESSING WITH THE
EDITOR/ASSEMBLER

VOL1 #12 LEARNING BASIC SPEAKING OF SPEECH(SPEECH SYNTHIZER)
FORTH GRAPHICS REVIEW OF "NEATLIST"

VOL2 #1 TI-FORTH INITIALIZATION OF D/S DISK FOR FORTH BACK TO
BASICS SPRITES IN BASIC PRINTER CHARACTER SETS TI-WRITER FILE
HANDLING PART III STRING MANIPULATION

VOL2 #2 CRUSING FORTH HOW TO READ WRITE TO INDIVIDUAL DISK
SECTORS ON THE 99/4A

JUG
NEWSLETTER OF THE JOHNSON SPACE CENTER UG. DICKINSON, TX 77539

FEB 81 AUTO LOADING

VOL 84.3 LIST OF TIBB'S SYSTEMS w/ADDRESS PHONE NUMBERS PROGRAM
TO GIVE TRUE LOWER CASE LETTERS

VOL 84.5 NOTE ON SPEECH SYNTHIZER HOW TO COPY EVERYTHING REVIEW
ON TI 850/855 PRINTERS

VOL 84.7 TI-WRITER COMMANDS FUNCTIONS ALPHABET GAME PROGRAM
SPRITE POSITIONING SOFTWARE HELPLINE GALAXY GAME REVIEW

VOL 84.9 SOFTWARE HELPLINE PICKING POKING THE FORTH DIMENSION
PROGRAM ON SPEECH EXTENDED BASIC SPRITE FORMULAS

VOL 84.10 SOFTWARE HELPLINE REVIEW OF SST "EXPANDED BASIC
COMPILER" XBASIC SPRITES

VOL 84.11 HELPFUL HINTS ON 99/4A XBASIC SOFTWARE HELPLINE MEMORY MAPPING NOTES

VOL 84.12 SOFTWARE HELPLINE FILE MANAGER NOTES RANDOM NUMBER HINTS FOR 99/4A XBASIC

VOL 85.1 XBASIC SORTS SOFTWARE HELPLINE HELPFUL HINTS FOR 99/4A XBASIC VDP STATUS REGISTER FILE MANAGER NOTES REVIEW OF "SUPERDISK" BY DATABIOTEC

VOL 85.2 DISKDRIVE CHECKOUT TIPS HELPFUL HINTS FOR 99/4A XBASIC TI-WRITER CONTROL CODES

VOL 85.3 GROCERY LIST PROGRAM DISK FILE NOTES "PIO" VARIABLE 28

VOL 85.4 ASSEMBLY LANGUAGE PRINT ROUTINE ED'S "DISK ANALYZER"

VOL 85.5 TI-WRITER NOTES FORTH DIMENSIONS

VOL 85.6 QUICK LOAD FOR FORTH DISK WINCHESTER INSIGHTS MULTI-PLAN PRINT QUESTIONS "BITMAC" REVIEW

VOL 85.7 TERMINAL EMULATORS DISK DRIVES GOING FORTH CALL LOADS FOR XBASIC

VOL 85.8 REVIEW OF "SUPER BUG II" INTERRUPT NOTES PART I POKING AROUND IN MULTI-PLAN

99'er ONLINE
NEWSLETTER OF EDMONTON 99'er SOCIETY EDMONTON, ALBERTA, CANADA TSJ 3L1

OCT 84 WORKING WITH FORTH BEGINNING BASIC PROGRAMMING DISK CATALOGING UTILITIES

NOV 84 DISK COPYING IN TI FORTH BASIC PROGRAMMING SORTING ONCE MORE SST "EXPANDED BASIC COMPILER" REVIEW TI-WRITER 132 COLUMN FORMATTING "SXB" SUPER EXTENDED BASIC REVIEW TRANSFERING COMPANION FILES VIA TEII

DEC 84 BASIC PROGRAMMING PROGRAM TO DEMONSTRATE GRAPHICS, STRING AND USE OF NUMERIC VARIABLES SORTING OUT SCOTT ADAMS ADVENTURE HINTS BOOK FOUNDATION 128K CARD REUIFW CUSTOMIZE YOUR FORTH SYSTEM

JAN 85 PRINTER SET-UP PROGRAM BASIC PROGRAMMING CASSETTE DATA FILES TI FORTH DISK FIXER

MAR 85 DATA BASE 99 REVIEW PRINTER ACCESS-FORTH STYLE DISK MANAGER III REVIEW

APR 85 "SUPERBEAST" GAME PROGRAM "HOW TO KILL AN ORGANIZATION" COMMENTARY DISK LABEL/INDEX MAKER

MAY 85 TI-WRITER TUTORIAL PART I LOWERCASE FOR TI-FORTH "QS-XREF" SOFTWARE REVIEW

JUNE 85 DISK LABELER PROGRAM SUPER LISTER PROGRAM TI-WRITER TUTORIAL PART II

AUG 85 "ADVANCE DIAGNOSTICS" REVIEW

"SUPERBEAST" GAME FIX

MY TEN BEST

by Jim Stewart

This is a list of the ten best programs in my library and the reasons I think so. I thought this would be a good way for the members of the group to get to know each other a little better. I hope this will be the first in a series, and each member would consider doing the same. Don't be bashful, I'm sure that everyone has at least ten favorite programs that they use more than any others.

For what it's worth...here is my list:

1. Companion--without this fine program half my family and all my customers would wonder if I was still alive and working.
2. Kopukat--this makes a complete copy of an entire disk in 3 passes or less...but say "bye-bye" to anything you were saving on the copy disk.
3. Multiplan--since I found you can do Mailing Lists, Appointments, and Price Lists on it, I've really enjoyed my Multiplan. Lots more fun than a Spencer Chemical spreadsheet.
4. Personal Record Keeping--an ingenious (though limited) system of manipulating data records. Easy to learn with lots of uses.
5. Interplanetary Rescue--"The Best of 99er" from Home Computer Magazine brought out "The Worst of Jim Stewart". I lost confidence in myself around the 400th time I crash landed, so I rewrote the program...now I am a very good Moon Base Rescue Pilot!
6. CHARDEFREV--was contributed by my friend Al Gober to help us create graphic designs up to 5x5 characters in size, with automatic Hexadecimal code, seeing the final design grow step by step.
7. TPL/LISTER IF you have an ounce of Scotch blood it bothers you to see your Disk Catalog listed only on the left side of the paper. TPL soothes me by listing 3 columns across the paper. Hoot 'mon!
8. CAT-REVIEW--My library is far better than my memory. I forgot whether I liked a program or not ..until I modified the normal Disk Directory listing. I captioned columns to the right GRP MON SUBJECT PERF INTR DOCM RATE so my CHARDEFREV reads UTIL X-B CHARAC GOOD HIGH SELF GOOD.
9. CLUB MAIL LIST-This is my sentimental favorite, because a small group of five people spent 5 months learning BASIC from Charlie Bathman, a gifted instructor.
10. Texas Aggies Marching Song--An absolut must for any serious musician or TI programmer is Gerry Meyers Graphically illustrated Marching Song.