THE R O M NEWSLETTER USERS GROUP OF ORANGE COUNTY 17161 EDWARDS STREET HUNTINGTON BEACH, CA 92647







BALLAS TI COMPUTER GROUP (DTIHCG) PO Box 29863

Dallas TX 75229

AUGUST 1881

WE MEET AT FIDELITY FEDERAL

TIME AND PLACE OF MEETING

The SECOND Monday of each month at

Fidelity Federal Savings

7:30 PM

North of Westminster Aue. at the corner of Seal Beach Blvd and St. Andrews at 13828 Seal Beach Blvd. Parking is availabel West of the building off St. Andrews with additional parking assross the street.

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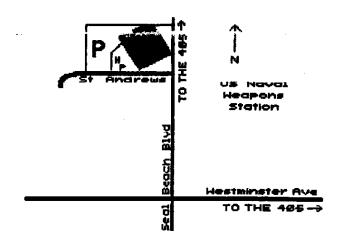
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We solicit letters and articles of interest to the TI-99/AM user community. Material accepted may be edited for fit and format. No payment is offered nor intended (other than your byline).



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PRESIDENTS MESSAGE by Siles Bazerman

Hello, again. I hope you found all you needed at the just past ACP swap meet. Remember, it takes place every two months.

It's not too early to start making plans for Fest West 92. February will be here before you know it. The fest will be held in Phoenix Arizona on February 15 and 16, hosted by the VAST Users Group. Those of you that have attended past fests know how much fun it is, while the rest of you should try it. You will like it. I will keep you posted as more details are known. Last meeting we had a demo of console only computing. This month we are going to the other end of the scale with a demp of the Geneve. The Swan will show off its magnificant plumage. Included will be a first public showing of the Beta version of a new program written by our own Jerry Rash. Mdos operation has never been this easy.

In September we will be holding another of our long awaited UGOC SWAP's. Start collecting all your lunk that will be someone elses treasure, and start saving to acquire new treasures for yourself. Due to the nature of the swap there will be no formal program, but, as always, there will be a series of informal SIGs and discussion groups.

In response to a request from one of our members in October, we will be examining the floopy disk, with tutorials on disk structure included. We will go into sector editing and the use of several programs that do this. Also as always we will also have a library demo.

The programming for the rest of the year is rather vague, and I hope more sugestions from our members will be forthcomming. The board needs this imput to make our group more enjoyable, and to meet the needs of our members.

WE DON'T KNOW IF YOU DON'T TELL US!

One other note. Starting this month the date of the Board Meeting will be moved

to the fourth Monday of the month. They are normally held at my house, and every one is melcome. Just call for directions.

See you all at the meeting, and keep Tling.

Sile's phone number is on the cover, or call someone eise, but come! [Ed]

JULY BOARD MEETING By Gene Smith, Secretary

JULY 24,1991. The meeting was held at the home of President, SILES BAZERMAN, and was called to order by him at 7:24 P.M. Others present were BILL NELSON, GEME SMITH, ERWIM METZ, STAN CORBIN and JERRY RASH.

The Secretary's report of the June Board Meeting was accepted as published in the July ROM.

BILL NELSOW, as the HALL of FAME CHAIRMAN reminded the BOARD that a check needed to be made out, as determined by the action of the membership at the July General Meeting, to John Birdwell and mailed to the John Birdwell Memorial Fund. He stated that LOU PHILLIPS and CHRIS BOBBIT are still nominees for the Hall of Fame and that another TI contributor should be nominated at next month's General Meeting so that the group can have three candidates for consideration.

ERMIN METZ, THE TREASURER, submitted a detailed itemized report of the group's financial condition which showed that we are paying all of our bills and that we are in good shape financially. The report was approved as read.

EARL REGUSE, the ROM EDITOR, was unable to attend the Meeting, but had stated to other Board members that he needs more items so that he can include them in the next ROM.

SIAM CORBIN, the MEMBERSHIP CHAIRMAN, stated that we presently have 51 paid-up members and that he had received two

requests from interested parties for membership forms. A question of a membership number was discussed. This refers to the number that is assigned to a person when he/she joins the group.

The Board considered and discussed the request for an increase in funds for the operation of our Bulletin Board and no change was recommended.

They also considered the increase in postage for sending the ROM overseas, as it is substantial, but no conclusion was reached.

It was called to the attention of the Board that some of the members of our group, namely NENT ARMSTRONG, EARL RAGUSE, GENE SHITH, ERWIN METZ and STAN CORBIN were presently conducting computer classes each Friday for Senior Citizens at the Senior Citizen Center in Grange, CA. At the first meeting on July 12th over 30 "students" signed up.

The goal has been to acquaint those interested with the wide capabilities of the TI-99/4A and how inexpensive it is, presently, to obtain a basic unit (console, video modulator and TV set) for themselves. The high level of interest, thus far, has been rewarding.

We were reminded that the NEW meeting

day for BOARD MEETINGS, STARTING NEXT MONTH will be on the 4th MONDAY of the apoth.

The AUGUST GENERAL MEETING is to consist of a DEMO by JERRY RASH or SILES BAZERMAN on the GENEVE SYSTEM and a LIBRARY DEMO.

The SEPTEMBER GENERAL MEETING is to consist of a SNAP MEET and a LIBRARY DEMO.

The OCTOBER GENERAL MEETING will consist of a DEMO of DISK-U and DISK PATCH programs by SILES BAZERMAN and possibly a DEMO of the DISK-MAPPING program by JIM SWEDLOW.

The MEETING ADJORNED at 8:50 P.M.

UGOC HALL OF FAME By Bill Nelson

For the second quarter of 1991 the members of the USOC are proud to have elected Mr. John Birdwell to the USOC Hall of Fame.

John has done many things for the TI community. Many utilities can be attributed to John but none speak better of his works than Disk Utilities. Disk utilities has got to be the best all around disk manager that is available for the 'AA. Sector editing to disk copying, Disk Utilities does it all. Another of John's works include the Myarc Disk Manager V for the Myarc HFDC (a lot of work was done by Mike Dod). John was working on the streamer tape and it is believed to be complete by some reports.

This award comes late for most know that John passed away December 27th, 1990 and we will all miss him. We are grateful for his past works and wish his family and friends our warmest regards.

Kathy Birdwell, John's widow, has donated all further proceeds from software registration fees to the John Birdwell Memorial Fund. For those who have not registered their copy of John's software, you may do so at the following address:

The John Birdwell Memorial Fund c/o Chicago II Users Group P.O. Bux 378341 Chicago, IL 60657

This award will be sent to Trustees of the fund for proper handling.

UGOC HALL OF FAME REPLIES

This month we received a reply from Mr. Clint Pulley, he sent us this nice letter and here is what he had to say:

It was with considerable embarrassment that I realized, a few days ago, that I had not yet replied to my induction into your Hall of Fame. Thank you very much! The certificate is hanging on the wall beside my Geneve and your "token of appreciation" has helped pay for a recent hard drive upgrade.

I first encountered a computer in 1959. started programming as a grad, student in 1965, and pedan programming professionally in 1967. Driginally an applications programmer, I moved into operating systems support in 1970. Since 1972 I've been Head of Computer Services at the Canada Center for Inland Waters here in Burlington, managing a series of CDC Mainframes, DEC minis, and assorted micros over the Recently I have become involved with network management and am currently involved in connecting our facilities to the Internet. If any UGOC members have Internet access I can be reached at (u001@cs.cciw.ca).

After much consideration I bought my first home computer, a TI-99/4A, in 1982. I've produced a lot of fairmare and public domain software for the '4A and 9640 since them. Two of my early releases were the 9900 Breakthru game (originally written using Mini-Memory and the Dow Editor-Assembler in 1983) and the Mini-Hem TI-Writer Loader (later the Super-Space loader, parts of which ended up in the Horizon Ram Disk software). In the fall of 1985 1 released the first version of c99 for the 99/4A, to be followed by three more releases. The following summer started working with the Geneve Prototype, so when I got by real Geneve in September 1987 I was already familiar with auch of the hardware. Since that time I have produced c99/MDDS which includes the QDE editor. ASM assembler loader and LDR program loader. I have also written and ported a number of other programs in c99 (COREMAR and DM. for example) for the MDOS environment. I am currently working with Al Beard on the TIC (full C compiler for the Geneve) project, writing the library functions and beta testing the compiler.

I've been happily married for 23 years and am the father of three great hids. My eldest, Harry, will be entering his junior year in Computer Science this fall so the next generation of programmers will include at least one member of the Pulley family!

Once again, thanks very much for the recognition.

Clint Pulley

UGOC ROM AUGUST 1991

As we get more responses from the awardees, we will reprint them in the ROM for everyone's enjoyment.

Thanks again Clint for all that you've done for the TI community.



APPLE REPAIRMAN

RON EDITORIAL POLICY

Contributions to the RGM become UGOC property. That is not to say that the author can not do what he wants with his creation, but the ROM reserves the right to edit copy for form and fit. Spelling errors, if detected, may be corrected. Obviously missing words may be added. duplicate words deleted, and punctuation may inserted as needed. Also graphic images may be inserted where deemed approriate-It will not be the policy change the author's intent, however, When there is doubt, the author will be contacted, if submittal is early enough. Submittals must be in by the fourth Monday of the month, to be included in the next ROM, so that the ROM can be mailed in time to arrive before the general meeting.





UGOC BULLETIN BOARD 330/1200;2400 BAUD (714) 751-4332

UGOC ROM AUGUST 1991

BIOGRAPHICAL SKETCH OF GENE SMITH By Gene Smith

Born in Huntington, Indiana; attended school there until graduation.

Attended Ball State Teacher's College in Muncie, Indiana on a scholarship, (goal to become a coach), but "dropped out" after a year due to an athletic injury.

Married; we celebrated our Golden Wedding Anniversary recently; my wife (Marjory) was a Teacher; we have one son and two grandchildren.

Worked for Pennsylvania Railroad as a Trainman and Conductor until entering the Air Corps during World War II; served primarily as a B-29 Gunnery Instructor.

Went back to college on the G.I. Bill; earned a Bachelor's degree with majors in Physical Education, Industrial Education and Social Studies.

Accepted a teaching job in Ft. Wayne, Indiana; taught Woodshop, Metalshop, Drafting, and Civics; commuted to Ball State and completed masters degree in Administration and Industrial Education.

Was elected, and served, as a Member of the Indiana State House of Representatives (Legislature) and served as the Secretary of the Education Committee.

Served for two years in Indiana as a School Principal (grades 1-12).

Taught Woodshop, Metalshop, Drafting, Civics, Math, History, etc. in California during last 20 years before retiring in 1980.

Enjoy as hobbies: motorhome travel, light-plane flying, fishing, boating, playing chess and woodworking, (am known as "Ye Olde Toymaker").

Purchased my first TI-99/4A computer, primarily to play chess with; joined TI Computer Club (UGOC) in April, 1983; was elected to serve as the Secretary of the Group in 1990; am still serving in that Capacity and am convinced that MOST PEOPLE ARE NOT AWARE of what can be accomplished with this computer.

PANDEMONIUM

Patter With Pan By Charles Hubbard Brevard UG NL 5/91

"Hello!, Welcome to Pandemonium, your friendly 'does--it--all--now' computer software--word jockey, number cruncher, data masseur. Let me introduce myself: I'm your tutorial. Let me show you the ropes. Just call me Pan, and it's your turn. Please type in your name on the keyboard, no more than twelve letters."

"Well, Hello again, Tom Jones. Since we are friends, I'll just call you Tom. Ha! it's your turn again, Tom. Please press the 'Enter' key; that's the one on the right."

"Very good Tom! You really catch on fast! Look at that list on the screen. Each item has a letter; you choose from the list by typing the letter. We call this list a menu. Try it, Tom. Press a letter key, see what happens".

"Oh, not the 'L' key, Tom. You see, 'L' wasn't on the list. You have to choose a letter from the menu. Press another key."

"Not the 'Control' key, Tom. That's confusing because it brings up the next instruction. Please, We're in this together. We can't go to the next item until we've finished this one. Come On, Iom a letter please!"

"Oh! No! Not 'Control' again ..."

"Must have a letter ..."

"Pandemonium! ... Jumble ..."

"No Compute!"

"Bedlam! ... Babel! ... Berserk! ..."

"Breakdown ... Meltdown ..."

"Lights out ... Ah, Oblivion!"





FAT PLANE

BIPLANE

THE MEMBER SHIP by Stan Corbin

Ahny mates! We gained another new member last month after the ROM had gone to bed. George Clark is a senior citizen of Quebec, Canada, and has been communicating with Earl Raguse. He was so pleased with the help he recieved, that he demonstrated his gratitude by becoming a member. It seems George had almost given up on his TI until he suddenly learned that there are thousands of us II'ers out here. Now he is very excited about his future with the II, and well he should be. It's doubtful he is aware of Funnelweb or Boot, or any of the other great programs for the TI. He will be ecstatic as a cat in catnip, when he gets his hands on some of the newer programs. It is rewarding to see someone so excited about his II. We are thrilled to have George for a member and look forward to many years of association.

Unfortunately Dennis Ungeheier did not get to our July meeting. We were looking forward to meeting him and it was quite a disappointment that he was unable to make it. Because he lives at take Elsinor, and he would have so much traffic to fight, we understand why he did not attend.

We are pleased with the response from those whose membership renewal was due in June. Bob and Betty August jumped in and paid before we notified them. Marion Scott, Donald Watson, Al Rosetta Lingle, George Haidane and Frank Aylstock have all renewed their membership for another year. Thanks people for your continued support.

Frank Aylstock recently returned from a trip up north. He stopped by in Eureka to see Fred Wagner, former president of the Brea Users Group. Fred went north a couple of years ago to live in, what he has recently learned, is earthquake country. Frank also stopped by to fish with Joe Stomiany, who is vacationing in Idaho.

Jerry Rash has become a stranger to everyone since he began taking some

computer courses at a local college. Jerry has also been writing a program for the Geneve, which he plans on marketing. You are missed Jerry.

Jerry Bartres, who lives in Carlsbad, is selling off his TI system. It saddens us that he is leaving the TI world but he wouldn't be leaving without having given it serious thought. Jerry is offering a very complete system for a reasonable price. He intends to be at our August meeting with his system to sell. An excellent buy.

Newt Arastrono established a computer class at the Orange Senior Citizen center, for senior citizens. The first session overwhelmed Newt and his staff, consisting of Gene Smith, Earl Raguse, and Erwin Retz. There were nearly fifty seniors responding, and surprisedly most were women. At least 37 had signed up for the class, the others were attracted by the interesting demonstrations. The second session held the 19th of July had over 25 people present, sost of whom were interested in word processing. These ladies were very much interested in learning more about computers and how to use them. One 89 year "young" lady, was learning very quickly about word processing. She will be one of our star pupils.

The second session was set up to give some of the st udents a chance for hands operation of the computer with assistance from the instructors. Few of the students were interested in spread sheets or data bases, so Gene Smith, who giving instructions in word processing captured more nf students. Earl demonstrated many of the features of the TI computer, which attracted a good audience, as well as several students for hands ០១ operations.

Erwin Metz had difficulty finding someone interested in Multi-Plan, but because he has some knowledge of IBM computers, was able to help some who had IBM clones to use. These classes were not just for the TI but were to help all that we could help. Low Palush of a local Commodore club helped those with

Commodores. These classes engendered a mutual appreciation between the students and the teachers. To be expected of course, the teachers learned a lot.

We commend Newt for his foresight in establishing these classes.

Join us next month on our Hember Ship cruise.

AUTO COMPUTER MUSIC By Earl Requise

About 15 years ago there was some music the was supposed to have been composed by a computer. It was pretty good I but I doubted the word thought. composed. Generated may have been a more accurate word. Although music is a mathematical subject. I will never believe that some genius' formula will do a truly creative task. However, after listening to the "music" played by the following little program, written by a 12-year old almost makes me a believer, a non-disbeliever at the least. It is short, type it in and run it, its worth the effort. Press any key to stop it.

> 100 ! SAVE DSK1.AUTOMUSIC 105 REM from ENTER magazine (by a 12-year old), reprinte d in NEWJUG North newsletter April 85. author not named. 110 REM echo 120 DIM A(6) 130 RANDOMIZE 140 DATA 247,262,294,330,349 ,392,440 150 FOR B=0 TO & 160 READ A(8) 170 NEXT B 180 B=INT(RND¢7) 190 C=B 200 D=B 210 6010 250 220 D±C 230 C=B 240 B=INT(RMD#7) 250 CALL SOUND(-200,A(8),0,A (C),9,A(D),19) 260 CALL KEY(0,E,F) 270 IF F=0 THEN 220

FORTH IN RRAL TIME CONTROL By Barl Raguse

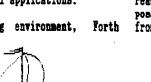
The following article was copied verbatim from a sidebar to an article on real time HVAC control in the SATURE plant in Tenn, which appeared the SENSORS April 91 magazine, that is written generally for control system engineers. I thought it interesting, even though I have stopped writing about Forth because I was getting lonely, and felt like I was beating a dead horse, in the II world anyway. Not so, in other worlds, it seems. The author worked for Forth Inc, the firm that sponsored the "Starting Forth" book. The last part of the side bar was trimmed off because it was mostly a commercical for PolyForth.

Forth For Industrial Applications

Forth may be the only one of today's popiniar computer languages designed specifically for real-time control applications. Originally developed at the National Radio Astronomy Observatory about 1970, it was first used to control an 11 meter radio telescope while concurrently recording and analyzing data. Forth is widely used in industries ranging from aerospace companies such as Boeing, TRW, and McDonnell Douglas to more conventional industries such as Saturn (as described in this article) and Federal Express (whose Super Tracker system, programmed in Forth, won a Halcon Baldridge award 1990) in Three out of four astrophysics experiments on the recent Columbia Space Shuttle flight were programmed in Forth, a fact that enabled the scientists to recover rapidly from the numerous hardware failures that threatened their projects.

Forth is unusual in that it integrates all of the tools used for programming debugging with a run-time environment suitable for real time applications. Top-of-the-line versions of Forth typically provide full multitasking and multiuser operating system support as well as high speed interrupt handling and other features needed for control applications.

As a programming environment. Forth



SAILBOAT

provides an interactive means of writing and testing programs. With its high level language interpreter and compiler and an assembler for embedded code, all memory resident, along with a simple but effective editor, Forth allows a programmer to test new routines and see the results of changes in seconds, without the delays normally required for compiling and linking conventional PROFFAMS.

Forth is structured and highly modular. These characteristics along with Forth's intrinsic interactivity. programmers to produce reliable, tested programs in an extremely short time. At the same time, Forth programs are quite fast: benchmarks show Forth to be significantly faster than BASIC, for example. Time-critical functions can be coded with Forth's embedded assembler to run at full machine speed.

On the down side. Forth is not derived from any other languages, and therefore looks unfamilar to novices. Also a side effect of its highly integrated nature is that it doesn't interface well to modules written in other languages; its designed to solve the entire proble.

WARNING. WARNING. WARNING By Barl Raguse

I have gotten notice from the Southern California Gas Company. It seems that Proposition 65 recently voted in by our knowledgeble public, requires that they notify us of the cancerous dangers lurking in some their products and facilities. They in fact, use such noxious subtances as paint, welding rods and gasoline. As a matter of fact, in some localities, there is danger of encountering second hand tobacco smoke, and a gas leak may release detectable quantities of benzene. We are warned to avoid these things by leaving the area immediately.

How all this brings to mind how negligent we have been at UGOC. We have yet not published a warning relative to the dangers that might be incurred from reading the ROM. There is some vague possibility of carbon vapors eminating from the printing, and God knows what is in the paper. Having shredded ROM cereal for breakfast for more than 200 days out of the year is seriously illadvised, according to our editor.

Those of us who must work with the ROM in the process of getting it to you, have been well trained for our own safety. I myself wear a gas mask, rubber gloves, and a full pressure suit when I sort the ROMs for mailing, and print the labels for the exchange groups. I have no idea as to the precautions taken by Stan Corbin, but I know he tries not to touch them with his bare hands. I am not sure what awful chemical is used in the stickum used on the mailing labels. I am certain he doesn't lick the stamps. What's more, the ROM has been handled by POST OFFICE machinery before you get it.

This Editor therefore deposes that you have been adequately warned, and will not honor any law suits for wrongful death, attributed to reading the ROM. You are now on your OWN!

> PROGRAMMER'S DILEMMA by Don Lester, Vancover, BC

(Taken from the NOCCC Orange Bytes newsletter, Your Editor thought this was worth repeating, after suitable modifications, of course.)

I sit before my 4A The screen is cold and black. I push the keys I think will work But nothing's coming back.

I know its not the RAM or ROM Since they were both just tested. Maybe it's hung up In some deep loop I'd nested?

The floppy drives sit silently Their little lights are out. I search the screen for any clue To what it's all about.

Could it be a vicious virus Deep down in the root? All else fails. I push the button To go for a reboot.

But nothing works!! Is there no cure? I must seek out this bug. That's when I look down and see That someone's pulled the plug!



JET

EXBABIC MISCELLANY 84 By Earl Raguse

ON ERROR

Last month I talked about OM ERROR, but did not tell you how to use it, or show you the program I wrote to demonstrate its use. Following is that program. You could make use of the error handling (lines 230 to 300) in your own programs. You might of course wish to change the error messages a little to suit yourself. I have seriously considered making a subprogram out of it for use in my programs where I access files. The overall program actually is a very good little file reader, and you might want to consider using it for that. I would change the name, of course.

100 ! SAVE DSK1.ERRORTEST
105 ! By Earl Raguse 12/90
110 ON ERROR 230
120 DISPLAY AT(12,1)ERASE AL
L:"Input a file name to read
": :" DSK"
130 DISPLAY AT(14,10)SIZE(-12
2):FIL\$
140 ACCEPT AT(14,10)SIZE(-12
1:FIL\$
150 OPEN #1:"DSK"FIL\$,1NPUT

160 IF EDF(1) THEM 200 170 INPUT #1:A\$:: DISPLAY A 180 CALL KEY(3,K,S):: IF S(> 0 THEN 180 190 GOTO 160 200 CLOSE #1::DISPLAY AT(22. 6): The end of the file. 210 CALL PAK :: END 220 ! error handling 230 ERRCMT=ERRCMT+1 240 ON ERRCHT GOSUB 260.270. 280,290 250 CALL PAK :: ON ERROR 230 :: RETURN 120 260 DISPLAY AT(12,1)ERASE AL L: Please check your spellin g I ran find no such fi le on drive ": VAL(SEG\$(FIL\$.1.1)):: RETURN 270 DISPLAY AT(12,1)ERASE AL L: Please check everything I can find no such file" :: RETURN 280 DISPLAY AT(12,1) ERASE AL

L: Please try harder, I'm 1

ost I can not find your file" :: RETURM 290 BISPLAY AT(12,1)ERASE AL L:"You must be a slow learne r I gave you three chan ces to clean up your act, now I'm gonna CRASH!" 300 EMD 310 ! 320 ! SUBPROGRAM AREA 330 ! 6100 SUB PAK 6110 DISPLAY AT(24.1)SIZE(30

): "Press Any Key to Proceed"

4120 CALL KEY(0,K.S):: 1F S<

1 THEM 6110

6130 SUBEND

The above program illustrates the use of ON ERROR. I begin with ON ERROR 230. The default for ON ERROR is to stop, but if followed by a line number it will no to that line for further instructions. This line and subsequent related lines should be considered a sub-routine, it should end with RETURN, and if so, it will return to the line causing the error. This is fine provided you were able to correct the error in the sub-routine, but as in the above program, I could not, and did not want to, so on line 250. I told it to RETURN 120, were the proper information could be entered. Once an ON ERROR has been executed, it subsequentially goes to default action, STOP. If you want something else, you must tell it so, as I did in line 250, where I put OM ERROR 230. Now this could result in an endless loop, so I put in an ERRor Coulifer, and when ERRCHT exceeds 3 the program crashes as hopeless.

There are other options for the RETURN statement, if followed by NEXT, it will act like a normal sub-rouine, and return to the line after the caller, ie. the error causer. You can however follow RETURN with a line number, eg. RETURN 120, and I could have done that for a simple one shot error fix, but I wanted to provide something a little more exotic, so I used the loop and the counting device. You may do anything your imagination can think up.

By the way, if you decide to make a file

reader out of the above program, I would change line 210 to read

210 CALL AGAIN :: 60TO 110.

You would then, of course, have to MERGE in my subprogram AGAIN, that was published a couple of months ago. That way you could read several files without rerunning the program.

Until next time, may all your ERRORs be small ones.

WHO OWNS THE ZEBRA Earl Raguse & Newt Arastrong

The following puzzle was put on the UGOC bulletin board by Newt. He didn't provide the answer, can you figure it out. Its simply a matter of logic, a subject computer owner's should be good at, are you? The answer will appear next month. If you can't wait call one of us.

The Problem :

There are 5 men, natives of different countries, living in a row of houses each painted a unique color. They drink different beverages, own different types of pets, and drive different makes of cars.

Use the following information to determine who drints WATER and who owns the ZEBRA. Answer to be supplied later.

ENGLISHMAN has a RED house. SPANIARD owns a DOG. COFFEE is the GREEN house drint. UKRANIAN drinks only TEA. GREEN house is next right to IVORY house. MG driver owns SMAILS. **HONDA** driver lives in a YELLOW house. MILK is the beverage in MIDDLE house. MORNEGIAN lives in 1st house on the VW driver lives next to pet FOX owner. HOMDA parks at house next to HORSE owner's house. TOYOTA owner drinks GRANGE JUICE. JAPANESE drives a DATSUM. NORWEGIAN lives next to BLUE house.

FIBONACCI NUMBERS By Earl Raguse

Fibonacci Numbers, were invented þν an Italian mathematition. Leonardo Fibonacci, circa (1180-1250). They have been used to solve some pretty exotic scientific problems, but I personally have never found anything of a practical nature I could do with them. That doesn't cool my interest in them even a little bit. They make a number series in which every number is the sum of the two previous numbers. The first two are an exception of course, the first is one, and the one before that was, of course, zero, thus the second is also The following program will generate a Fibonacci series of any length you desire.

I once tried to become famous by inventing Raguse Mumbers. Each number was the sum of the three previous numbers. Nobody ever found a use for them, so I didn't get famous.

Newt Armstrong used Fibonacci Numbers to solve a puzzle challenge that he had put in the Jan 98 ROM. Either Fibonacci numbers were just made for solving Newt's puzzle, or just, just possibly, Newt designed the puzzle just to show off Fibonacci Numbers. What do you think? Anyway, try them.

100 ! SAVE DSK1.FIBONACCI 110 DISPLAY AT(4,6) ERASE ALL :"FIBONACCI NUMBERS" 115 DISPLAY AT(6,1):"A Fibon acci number is equal to the sum of its two prede-ces sors." 120 DISPLAY AT(18.1):" PRESS SPACE BAR TO PAUSE OR CONTINUE. e to guit-130 INPUT * Enter a LIMIT 7 Pet IMET 135 CALL CLEAR :: PRINT " COUNT": " FIBONACCI":" VALUE": : 140 A=0 :: B=1 :: C=1 :: PRI NT TAB(6):1:TAB(14):C 150 FOR X=2 TO LIMIT

170 C=A+B :: IF C>LIMIT THEN 270 180 A=8 190 B=C 200 PRINT TAB(6); X; TAB(14); C 210 CALL KEY(3,K,S):: IF S(1 250 IF K=ASC("0")THEN 320 EL SE GOSUB 280 260 MEXT Y 270 PRINT : : :: CALL AGAI N :: 6070 110 280 CALL KEY(3,K,S):: IF S<1 THEN 280 290 IF K()32 THEN 280 :: RET 320 RUN "DSK1.DIR" 330 : 430 ! SUBPROGRAM AREA 440 1 5500 SUB AGAIN :: BISPLAY AT (24,1): "Again? Press A, Else 5510 CALL KEY(3,K,S):: IF SC 1 THEN 5510 ELSE IF K()ASC(* A" THEN RUN "DSK1.DIR" 5520 SUBEND

If you don't have a program named DIR, then replace RUM "DSK1.DIR" with STOP.

Of some interest, to some of you, may be the way that I have executed the PAUSE I promised in line 120. Notice that line 210 is

210 CALL KEY(3,K,S):: IF SC1 THEN 260

Meaning if no key press, go to line

260 NEXT X

But if there had been a key pressed on line 120, we would examine it on line 230 to see if it was a "9", in which case we should go to 320 and return to DIR. But if the key was not "9" then we should GOSUB 280, where another CALL KEY awaits. Here if any key is pressed, which is NOT Space (32), it will be ignored by returning to 280. But if Space (32) is pressed we RETURN to 260 NEXT X. Which is first after the calling line 250. The sequence then resumes until the next PAUSE or LINIT is reached.





COMPUTER MUSIC By Earl Raguse

The following was written by Australian Robert Davy, one of the TISHUS Younger Set. He was 14 when it was done. The TISHUG is a User Group with whom we exchange newsletters. I like it, so of course, I diddled with it a little. I did not change the basic premise It makes chords with the however. previous two notes. (Remember, the Fibonacci numbers?). I have seen this idea before in Jim Petersons Wild Flower. It is not musically correct, as far as chords go, and it does not sound right used on the wrong music. I know I have tried it.

100 ! SAVE DSK1.CHURCHBELL 110 DISPLAY AT(10.1) ERASE AL L: CHURCH RELLS by Robert Dav (aged 14)" 120 DISPLAY AT(14,1):" S.H.U.G. Younger Set* 130 B,C=262 :: I=1 :: RESTOR ٤ 140 READ A :: IF A-0 THEN RE STORE 180 :: A=262 :: Z=Z+1 160 FOR J=2 TO 7 STEP 1.3 :: CALL SDUMD(-999,A,J,B,11,C, 15):: MEXT J :: C=B :: B =A :: IF Z>2 THEN 200 ELSE 6 165 CALL AGAIN :: GOTO 110 170 DATA 262 180 DATA 523,494,440,392,349 ,330,294,262,523,494,440,392 ,349,330,294,262 190 DATA 523,440,349,294,494 .392.330.262.523.440.349.294 ,494,392,330,262,0 200 CALL SOUND(1,110,30):: R UN "DSK1.DIR" 5500 SUB AGAIN :: DISPLAY AT (24,1): Again? Press A, Else Any Key" 5510 CALL KEY(3,K,S):: IF S< 1 THEN 5510 ELSE IF K<>ASC(" A"ITHEN RUN "DSK1.DIR" 5520 SUBEND

If you do not have a program mamed DIR just replace RUN "DSK1.DIR" with STOP.