

# **VOLUME 2**

**AUGUST 1983** 

# NUMBER 13

# AUGUST MEETING

The next regular meeting of the Pittsburgh Users Group will begin at 6 p.m. on Sunday, August 21, 1983 at the Community College of Allegheny County's South Campus.

The P.U.G. Program Library will be open for copying programs or to accept returns of borrowed items between 5 p.m. and 6 p.m.

Following the general business meeting, the members will split up into three smaller interest groups: Basic, Extended Basic and Assembly Language.

## LAST MEETING

The P.U.G. has ordered a Teac Disk Drive, which should arrive in time for the next meeting. It looks like we are on our way to reaching our goal of a complete TI 99/4A Home Computer System.

Texas Instruments has published a new software directory, which is being sold for \$5.00, and includes most of the software now being sold to run on the TI 99/4A.

We will soon be seeing a new TI display at the local stores. We can only hope that the software will follow.

The Group membership discussed ways to encourage members who have been delinquent in returning books and programs borrowed from the Program Library, to bring them back.

DOOR PRIZE: was awarded to P.U.G. member Stanly R. Grove. He took home TI-Asteroids.

A demonstration was given of a Magic Software Disk, which included: Bomber, Boxer, Cat & Mouse and I'm Lost 3D Maze. Boxer was rated as "Hilarious" by the younger members of the Group. Cat & Mouse was rated excellent for action. The best of the cat & mouse games on the market. Some other Groups have tried the 3D Maze and have reported that it is excellent. We did not see that game due to technical difficulties.

# RE-ORGANIZATION

The Pittsburgh Users Group was formed on January 1, 1981 by a few individuals who shared a common interest in a new computer which was introduced by Texas Instruments. This was the TI 99/4 and like most things, it has been refined and improved upon until it became the TI 99/4A, which is the computer that the majority of our members use today.

Just as the computer has changed, and grown over the past two and onehalf years, so must our Group.

The orginal By-Laws of the P.U.G. no longer apply to some of the new directions of the Group. Some of the Articles should be deleted and modified to reflect the changes which have been voted on by the members during general meetings.

The P.U.G. Secretary, John Asmonga will act as Chairman for a Committee to review the By-Laws and make recommendations to the Executive Board on implementing changes to the By-Laws. The new By-Laws will be made available to members in good standing prior to a discussion and a vote on revised By-Laws.

Any P.U.G. member in good standing who wants to serve on this committee can contact John Asmonga.

Amendments to the By-Laws will be considered by the Committee if presented in writing before the final recommendations are presented to the Executive Board. If everything goes as planned we will have at our Sept.18th group meeting,Ed Wiest,the TI User's Group Coordinator.Here is your opportunity to see and hear the latest news from Texas.If they present the kind of show they had in the spring it should be a very informative meeting.Watch next months newsletter for the starting time.

# IS IT OR ISN'T IT

John Dow has been doing some comparing of information on the speed of different Disk Systems with the TI and is coming up with some confusing figures.We hope to have more on this at the meeting or in the next newsletter.

### FREE SAMPLE

We would like to thank the people at MAGIC Software for the free disk of their new games we demonstrated at the last meeting.Here is their ad if you would like to order.

MAGIC Software, Inc. Presents							
All new - Assembly Language Games for the TI99/4 with Mini Memory or expansion RAM. Fast - Fun - Fairly Priced. Available on disc or cass.							
BOMBER BOXER Cat & Mouse 3DMAZE and more							
Pricing: 1 game 2 games 3 games 4 games	cass. disc \$12.00 \$14.0 \$22.00 \$24.0 \$31.00 \$32.0 \$40.00 \$40.0	0 0 0 0					
For descriptions - To ORDER - send ch	- send lg. SSAE heck to:						
MAGIC Software, Inc. 3148 South 14th Street Milwaukee, Wisconsin 53215							

### PONY EXPRESS

The U S Post Office did a royal job of delivering last months newsletter, some taking two weeks after the meeting. We will try to see that this does not happen again, but if you find that your newsletter is not getting to you on time, or not at all, please call them and complain. The number to call is 359-7844.

### -MEMBERSHIP DUES

The Pittsburgh Users Group, annual membership dues of \$12.00, entitles an individual to receive the Monthly Newsletter, a Membership Card to admit him/her to the Monthly Meeting and to the Bulk Purchasing Power of the Membership.

Non-participating members can receive the Monthly Newsletter for an Annual Fee of \$5.00, if they want to stay in touch but cannot attend our meetings.

All Annual Dues and Fees are payable on or before the Annual Renewal Date. A 30-Day Grace Period may be given by the officers prior to terminating a members Group affiliation.

A Paid-Up Membership Card must be presented at the door to attend the Monthly Meeting.

## BOOK REVIEW

### BY: Ed York

The book entitled the "Smart Programming for Sprites" by Craig Miller was one that I have both enjoyed reading and using. I will admit that I really didn't expect much from a book that only cost \$5.95 plus \$1.50 for shipping and handling. I thought that this had to be a rip-off scheme but that was before I had the chance to review the software from Millers After I had the chance to Graphics. review the software, my attitude then changed in a positive manner. I then waited patiently for the book to arrive. I was not disappointed but on the contrary very much surprised and glad that I had ordered the book. The information and explanations are worth their weight in gold. If you have Extended Basic and don't have this book yet, then what are you waiting for? (CIN-DAY USER GROUP)

	JMP	L1	
LO	SWPB	R1	
	CLR	R2	
	MOVB	R1,R2	
	SWPB	R2	
L1	MOV	R2, ON	
TOP	SRL	R2,1	
	JEQ	DONE	
	MOV	R2,R9	M8=INT(N/2)
	MOV	an, R3	R3=N-M8
	S	R2,R3	
	LI	R8,1	J8=1
L2	MOV	R8, R7	I8=J8
L3	MOV	R9, R6	
	A	R7, R6	L8=18+M8
	MOV	R7, R0	
	LI	R1.2	
	BLWP	<b>ONUMREF</b>	FAC=A(18)
	LI	R4.FAC	
	LI	R5.XI8	
	MOV	*R4+. *R5+	XI8=FAC
	MOV	*R4+. *R5+	
	MOV	*R4+, *R5+	
	MOV	*R4. *R5	
	MOV	R6. R0	
	BI WP	ANUMBEE	FAC=A(1.8)
		RO. 4	1110-11(20)
		RA FAC	
	с. I I Т	85 YIQ	
		X01+ X05+	COMPARE FAC WORD TO YIG WORD
	JGT	+/(	COM ARE THE WORD TO XID WORD.
	INE		
	DECT	RO	ATH WORD VET2
	.100	CUMPOR	
	TMP		
L PO	MOU	P7 P0	EAC 16 $\times$ YIG CET A(10)-EAC
	BLUP	ANUMARG	PAC 15 / X10. SET A(18/-PAC
		RA FAC	
		R5 YIQ	
	MOU	XQ5+ XQ4+	
	MOV	*R5+ *R4+	
	MOV	*R5+ *R4+	
	MOV	*R5 *R4	
	MOV		
	RIMP	ANUMASS	$\Delta(1,\mathbf{R}) = \mathbf{E}\Delta\mathbf{C}$
	C .	RO R7	19-19-M8
	JGT	17	
14	TNC	<b>-</b> 9 R8	FAC(XI8 SET 18=18+1
		R8-83	(NOTATO: OF! 00-00+1.
	- קור	12	1E 18(=83 60 TO 12
	JMP	TOP	
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#### AN ASSEMBLY LANGUAGE SUBROUTINE (CONTINUED FROM LAST MONTH) By John Dow

The last newsletter included a listing of a subroutine which is called from Basic (using the Mini Memory Module) to sort a numeric array. Below is a modified version of that subroutine. It has been revised to be assembled with TI's Editor/Assembler. It is now designed to be called from Extended Basic. It therefore has been renamed XBSORT.

I made a few additional changes. For instance, I eliminated the variables M8, J8, I8, and L8 in favor of registers R6 through R9. Also, at our meeting last month (Sunday before the PUG meeting), we decided that there were two bugs in Jerry's version: change 712A to 712C at locations 08A and 0C6. (In the version listed here, I eliminated those statements altogether by having multiple move statements.)

Last month's version was produced with the Dow Editor/Assembler. You can compar that listing with the one below to see how easy it is to convert from using the Mini Memory Module to a full system (with disk and expansion memory).

\* CALL LINK("XBSORT", N, A()) \* \* DERIVED BY JOHN DOW FROM JERRY ROWELL'S SHELL SORT \* SUBROUTINE WRITTEN FOR THE MINI MEMORY MODULE. × \* THIS VERSION IS TO BE USED WITH EXTENDED BASIC. \* \* REGISTER USAGE: **\*** RO TEMP FOR SUBSCRIPTS ETC **\*** R1 =2 FOR NUMBER \* R2 N/2 ETC \* R3 N-M8 **\*** R4 FAC POINTER **\*** R5 XI8 POINTER \* R6 L8 \* R7 I8 \* R8 J8 \* R9 M8 \* DEF XBSORT FAC EQU >834A NUMREF EQU >2000 NUMASG EQU >2008 GET 1ST ARGUMENT: SIZE OF ARRAY XBSORT CLR RO LI R1,1 BLWP ONUMREF MOV CONVERT TO INTEGER *aFAC*, R1 CLR R2 MOVB R1,R2 SWPB R2 CI R2,>41 JNE LO SWPB R1 CLR R2 MOVB R1,R2 SWPB R2 LI R4,100 MPY R4,R2 MOV R3,R2 MOVB OFAC+4, RO SWPB RO 3 RO,R2 A

# SOME PROGRAMS FROM OTHER GROUPS

100 REN THIS PROGRAM WILL PLAY AND PRINT THE FREQUENCIES FOR 2 ADDITIONAL OCTAVES OF BASS NOTES ON THE TI 99/4A. USE THEN AS SHOWN IN LINE 160. 105 REM BY JIN PETERSON REPRINTED IN THE SYDNEY NEWS DIGEST FROM TEXNET. 110 DEF R(X) = INT(X+.5)120 F=1652 130 FOR J=1 TO 25 140 READ N\$ 150 PRINT N\$;" =";R(F) 160 CALL SOUND (500, 22000, 30, 22000, 30, F, 30, -4, 0) 170 F=F/1.059463094 180 IF J(>12 THEN 200 190 RESTORE 200 NEXT J 210 DATA A, B flat, B, C, C#, D, E flat, E, F, F#, 6, A flat, A 100 REM THIS PROGRAM PLAYS TREMOLD NOTES. CHANGE VALUE IN LINE 150 TO 1.01 OR 1.03 FOR MORE OR LESS TREMOLO. 105 REM ST. JAMES INFIRMARY BLUES - JIM PETERSON 110 FOR J=1 TO 60 STEP 2 120 READ A,B 130 FOR L=1 TO A 140 CALL SOUND (-99, 8, 0) 150 CALL SDUND (-99. B+1, 02. 0) 160 NEXT L 170 NEXT J 180 DATA 2,330,2,294,4,330,4,294,4,330,4,294,4,262,B, 220 190 DATA 2, 330, 2, 294, 6, 330, 2, 294, 4, 330, 4, 262, 12, 247 200 DATA 2,294,2,262,4,294,4,262,4,294,2,330,2,294,4, 262,8,220 210 DATA 4,262,4,262,4,220,4,262,4,247,16,220 100 REM SINE-WAVE SPRITE EXTENDED BASIC 110 REM BY: BOB GAGLE 120 REM COPYRIGHT 1983, CIN-DAY USER GROUP 150 CALL CLEAR 160 CALL MAGNIFY(2) 170 DIM A(30) 180 FOR B=1 TO 30 190 READ A(B) 200 NEXT B 210 DATA 0, -4, -8, -12, -16, -20, -24, -28, -24, -20, -16, -12, 140 REM GRDUP -B, -4(0, 0, 4, 8, 12, 16, 20, 24, 28, 24, 20, 16, 12, 8, 4, 0 220 CALL SPRITE(#1,42,5,89,120) (40 230 CALL JOYST(1,C,D) 240 CALL KEY(1,F,6) 250 IF F=18 THEN 260 ELSE 230 260 CALL POSITION(#1,H,I) 270 FOR J=1 TO 30 280 IF I>239 THEN I=1 290 CALL LOCATE (#1, H+A(J), I+J) 300 NEXT J

310 6010 230 /

100 REN TIHONE LIBRARY E301- REPRINTED FROM SYDNEY NEWS DIGEST 110 CALL CLEAR 120 PRINT ::\* +++ARITHMAGRAPHS+++\*:: - 140 PRINT . DEVISED BY MIKE O'REGAN. 160 PRINT \* SYMBOLS REPRESENT NUMBERS!\* 170 PRINT \* TRY TO FIGURE THEM OUT!\*::: 180 CALL CHAR(48, "00103810101010") - 190 CALL CHAR (49, "0010382B101028") 200 CALL CHAR (50, "AA55AA55AA55AA55") 210 CALL CHAR(51, "FF010204081020FF") 220 CALL CHAR(52, "FOFOFOFOFOFOFOFO") 230 CALL CHAR (53, "FOFOFOFOFOFOFOF") 240 CALL CHAR(54, "000103070F1F3F7F") 250 CALL CHAR (55, "BOCOE OF OF BF CFEFF") 260 CALL CHAR(56, "003838003838") 450 LH=LEN(H\$) 270 CALL CHAR (57, "00383020081838") 460-LA=LEN(AS) 280 RANDOMIZE 360 H=B+X 470 B\$=STR\$ (B) 290 A=INT(RND+1000)+1 370 A\$=STR\$ (A) 480 LB=LEN(B\$) 300 B=INT (RND+1000)+1 380 E\$=STR\$(E) 490 IS=STR\$(I) 310 I=INT (RND+150)+1 390 LE=LEN(E\$) 500 LX=LEN(X\$) 320 C=A+B 400 F\$=STR\$(F) 510 C\$=STR\$(C) 330 E=A+B 410 LF=LEN(F\$) 520 LCL=LEN(CS) 340 F=B+X 420 6\$=STR\$(6) 530 N\$="+" 350 6=E+F 430 L6=LEN(6\$) 540 NS="=" 440 H\$=STR\$ (H) ·550 D\$="X"

680 GOTO 680

100 REM MUSIC FROM STRINGS
110 REM CREDITED T0
120 REM TI SYDNEY HOME
130 REM COMPUTER USERS
-12, 140 REM GROUP
0 150 DISPLAY AT(12,6)ERASE ALL: "MUSIC FROM STRINGS"
160 A\$="1A1E1K1K1K1E1A1A1E6K1K1P1U1U1U1U1\_1\_1\_1U6P1\_1X1U1U1U1U1P1K1K1K1E1E1E1E
1P1K111E1A1A1K1P1U1P1EIISK"
170 FOR A=1 TO 98 STEP 2 :: CALL SOUND(VAL(SEG\$(A\$,A,I))\$200, (ASC(SEG\$(A\$,A+1,i)))-36)\$10,0):: NEXT A
180 DIM B(28):: C=262 :: FOR D=0 TO 27 :: B(D)=1NT(C\$1.059463094^D):: NEXT D ::
B(28)=32000 :: B\$="cKcKcHeJaKcHcOcOcPeOaHcKcHcKcJgK"
190 FOR F=1 TO LEN(B\$)STEP 2 :: CALL SOUND((ASC(SEG\$(B\$,F,1))-95)\$120,B(ASC(SEG\$(B\$,F+1,1))-64),5):: NEXT F :: GOTO 160

	D1 D1	BOOG LER CHECKER				D6 D6	ASPIC BONES			D10 D10	CYBERDICE DEFINECHAR
~ •	D1	CRYPTOGE	RAM			D6 D6	COUNTING			D10	FORCE1JOY
	D1	KNIGHTOU	JR			D6	FLAGS		C10	D10	JUMPJACK
CI	$\mathbb{D}1$	ONEARM				D6	LETTERQUIZ			·D10	LIFE2TITAN
	D1	OTHELLO				D6	SPEAKSPEL2			D10	PIERINGSQD
	D1	ROBOT			Сb	D6	SPEAKSPEL4			סות	TRUCKER
	D1	YAHTZEE				D6	SPELL 200			D11	BALLMATH
						D6	SPELL 33			D11	CODEOFLIFE
	D2	AIRCRAFT	r			D6	TESTQUEST			D11	CONVERSION
	D2 D2	ARTILLERY		D6	TRUEFALSE			ערוע 11ת	FIREBALL NUMCONVERT		
	D2	CANNON				00	VUCKDIDDI			D11	SIGMA
C12	D2	CHOPERES	SCU			D7	ASTEROIDS		011	D11	STATECAPS1
02	D2	LASERWAR	RS			D7	CHIC			D11	STATECAPS2
	D2 TD2	NIGHTBL	[GHTBLOCK		D7 שלים	DOGEM			D11 D11	WORDWORLD	
	D2 D2	SPACEWAR	201			D7	GOLDRUSH			ייע	
	D2	STARFIGH	TE			D7	JAWS			D12	BUMBLEMUSI
	D2	TERMITE				D7	NIGHTBLOCK			D12	CHRISTMAS
	DЗ	ΔΠΦΟΒΔΗ	N		C7	D7	SHOUTING SPACE TUNK			D12	HOTLUNCH
	D3	CAMEL				D7	SWORDS			D12	MUSICDEMO1
	D3	CAPTURE				D7	TRAPSHOOT		C12	D12	MUSICEDIT
	D3	CIVILWAR	3.			D7	WAGONWHEEL			D12	MUSICSYN
	כע ה3	HAMURAB:	1			ע דת	XRESCUE			D12	SEAHORSE
	D3	LUNARLAN	ND			21	A1101III			D12	SINEWAVE
С3	D3	OBSTACL	Ð			D8	ALIEN			D12	STILL
	D3	ROADRACH	DADRACE INFRAN DARMEEK		<u></u> ]8	ATTACKER			D12	STRAUSS(1)	
	D3	SANGKAN			D8 D8	CORNERWAR			D13	BOAT-SONG	
	D3	TOURING		D8	CRAZYCLOWN			D13	HOLY		
	D3	WUMPUS				D8	DOGFIGHT			D13	LOAD
	ЪЛ	OP A 7 VT TI	NEC		ദാ	D8 D8	MARSLANDER			D13	MAINSCREEN
	D4	ELIZA	ELTZA	00	- D8	RUSSIANWAR		013	D13	PIIPPY-TOWN	
	D4	FRAMEUP				D8	SPACEBATT			D13	R-BOOGIE
a I	D4	MASTERM.	IND		D8	SPRITER			D13	VENUS	
64	D4 D4	MINER				- D8 BU	TWRHANUL			13	W-BOOGIE
	D4	MOTORCR	OSS			10	0100011			D14	ADDRESSES
	D4	REBOUND				D9	CALENDAR			D14	CHECKBOOK
	D4	SECRETAN	RY			D9	CALENDARPT			D14	CHISQUARE
05	D4	COUNTDUCKS			<u>ра</u>	GRAPHBARS			D14 D14	CPM ALTRE	
	D5			D9	LIBRARIAN			D14	ESTATE		
	D5	GUESSPRI	GUESSPRESI		D9	MARKET			D14	EWORD	
	D5	LIFEEXPECT	C9	D9	MORTAGE			D14	FINANCIALM		
	D5		ES		0)	рд рд	RULE78		C14	D14	TNVENTORY
	D5 D5 D5	SAYNUMBER TELLTIME		D9	TEXT			D14	LINEARREGR		
				D9	TEXTEDITOR			D14	LOANANALYS		
	105 105	WORDOUL	CH Z			DУ	WINDCHILL			D14	PAIMENT
	D5	WORLDBI	RDS			73				D14	RECEIPTEXP
	ртт	TSBURCH	USERS	GROUP	PROCE	RAM	LTBRARY	TUNE	1983	D14	STOCKRECOR
	 Foo	h mour	of num	beng y	nonnor	2024		ngme 1	-/~/	14 11ת	STOCKTRANS STOCKTREND
	(Ey	ample:	D1 = 1	0 Pro	grams	on	one disk).	່ວແມ່ວະ 1		-2019 <del>4</del>	STOOMTHIND

#### BOOK REVIEW

- Name: USING & PROGRAMMING THE TI 99/4A, INCLUDING READY TO RUN PROGRAMS.
- Author: FREDERICK HOLTZ
- Publisher: TAB BOOKS, INC. BLUE RIDGE SUMMIT, PA. 17214
- Available: B-DALTON BOOK STORES AND WALDEN BOOK STORES
- Cost: \$9.95
- Pages: 216

USING AND PROGRAMMING the TI 99/4A is a very useful tool for hands on experience on their home computer. The book has eleven chapters and also has a very useful glossary. The first three chapters are actually spent introducing the TI 99/4A to the user. Most of this information was provided to the buyer in the TI "Users Reference Guide" that accompanied the computer in packaging.

The next three chapters cover the basic language that was built into the TI home computer. There is more information on graphics in these chapters than in the "Users Reference Guide" and I found much of the information to be very helpful to me several times since I first read it.

In the eighth chapter, there are twelve basic ready to run programs, that you may key into your TI. These programs are relatively simple to enter and are also very simple to run. There are not any good graphics and they don't have any arcade quality games, however, I do feel that the beginner would enjoy typing these in and also spending some time watching how they run.

The ninth chapter explains the additional languages that the TI 99/4A is compatible with such as: Extended Basic, Assembly Language and TI Logo. The last two chapters are devoted to introducing the different types software that are available to use with the TI, and these chapters also explain how common basic applications can be adapted to TI basic so you may run them for your own use.

The NATIONAL 99'ERS CLUB, highly recommends that all new users of the TI 99/4A pick up a copy of this book, we think that you will find it to be a very helpful guide.

(99'ERS CLUB)

#### REVIEW - NIT WIT & THE GAME OF WIT

## BY: Ross Sabolcik

Both of these games are in extended basic and are word games. In the game "NIT WIT" you are controlling a drain stopper and you try to catch letters in order to form words. There are six drain pipes in three rows, and two letters fall through the drain pipe. You must move your drain stopper to block a pipe and catch a letter. When you are finished the other player gets a chance to see if your word is spelled correctly. This is a fun game to play with a friend.

The other game, called "THE GAME OF WIT" is a word scrabble game. It is not a bad game and plays just like Scrabble, except you can lay letters over top of letters already on the board.

Both of these cassette games are manufactured by:

TEXWARE ASSOCIATES 350 First North Street Wellington, Illinois 60973 The programs listed below have been revised but the originals were taken from the T.I.U.P. (The TI-99/4(A) Home Computer Users Group of Perth, Western Australia) newsletter with credit going to Lindsay Preece.

<u>SPRITE CHASE-JOISTICK</u> This program sets two sprites chasing a third that you control with a joystick. 100 ! SPRITE CHASE-JOYSTICK 110 CALL CLEAR :: CALL MAGNIFY(2):: CALL SPRITE(#1,96,3,96,128,#2,104,10,1,1,#3, 104,10,192,256) 120 CALL SCREEN(16):: CALL CHAR(96,"383890FE3A38386C",104,"3C7EDB99FFC3663C") 130 CALL JOYST(1,A,B):: CALL MOTION(#1,-3#B,3#A):: 60SUB 140 :: 60TO 130 140 CALL POSITION(#1,C,D,#2,F,6,#3,H,I):: J=SGN(C-F):: K=SGN(D-6):: L=SGN(C-H):: M=SGN(C-1) 150 CALL MOTION(#2,10#J,10#K,#3,10#L,10#H):: RETURN

FOLLOW THE LEADER This program produces an interesting effect by linking several sprites in a circular dancing movement.

100 ! FOLLOW THE LEADER 110 CALL MAGNIFY(1):: CALL CLEAR :: CALL SCREEN(4):: CALL CHAR(92, \*3C7EFFFFFFF7 E3C\*) 120 CALL SPRITE(#1,92,16,28,60,#2,92,16,1,128,#3,92,16,28,196,#4,92,16,96,224) 130 CALL SPRITE(#5,92,16,164,196,#6,92,16,192,128,#7,92,16,164,60,#B,92,16,96,32) 140 CALL POSITION(#1,R1,C1,#2,R2,C2,#3,R3,C3,#4,R4,C4,#5,R5,C5,#6,R6,C6,#7,R7,C7 ,#8,R8,C8):: A=5 150 AA=SGN(R2-R1)#A :: AB=SGN(C2-C1)#A :: BA=SGN(R3-R2)#A :: BB=SGN(C3-C2)#A :: CA=SGN(R4-R3)#A :: CB=SGN(C4-C3)#A 160 DA=SGN(R5-R4)#A :: DB=SGN(C5-C4)#A :: EA=SGN(R6-R5)#A :: EB=SGN(C6-C5)#A :: FA=SGN(R7-R6)#A :: HB=SGN(C7-C6)#A :: CALL NOTION(#1,AA,AB,#2,BA,BB,#3,CA,CB ,#4,DA,DB,#5,EA,EB,#6,FA,FB,#7,GA,GB,#8,MA,HB):: GOTO 140

> EDMONTON DAER GROUP P. O. 90 I 1983 EDELET AGANADTABLA NOTNOMGE

# JAIRATAM AVITIZNAZ AMIT



