



Vol. 4 Number 2 Copyright 1980

March/April 1980

HEROES OF PPX-59: The final tally of programs accepted in 1979 has been taken. PPX would like to give special recognition to the top five contributors of 1979. Each recipient will receive a complimentary one year membership and certificate of achievement. These members are:

Recipient

Theodore Bones, Jr. Chorman Ching Jose Miguel G. Garcia Mike Hastings Barry Tepperman Location

Princeton, WV Ontario, Canada Tijuana, Mexico Fayetteville, AK Ontario, Canada Areas of Submission

Mathematics
Statistics, Mathematics
Chemistry
Mathematics, Games, Applied Sciences
Statistics, Life Sciences, and many others

The tally of programs accepted was based upon the number that appeared in the D and E addendums. PPX thanks all members who have contributed their program(s) and helped make PPX a successful program exchange.

POTPOURRI

1. Newsletter Notice — As you've noticed by now, there wasn't a January newsletter — but, there was a January/February newsletter. Starting with that issue, we decided to bring out the fact that it was a bi-monthly newsletter.

We've been receiving many telephone calls and letters asking when the newsletter will go out. This is a valid question since there is always a chance for mail to be lost.

PPX plans to have the newsletter in your hands by the first week of the second month of which the Newsletter is dated. (For example, you normally should receive the May/June newsletter in the first week of June.) If problems do arise due to Murphy's law (anything that could go wrong—will), you may receive the newsletter a little later. Because of this, we ask that you do not call or write concerning the mailing of the newsletter until the end of the second month.

2. Addendum Identifier — Each program number listed in the catalog has a suffix letter which identifies the Addendum in which that program abstract can be found. For example, consider program number 948005D: 908005 D ALMANAC DATA FOR STARS

Addendum Identifier (meaning: abstract for this program is found in catalog Addendum D.)

Do not confuse the addendum identifier with the program revision letter. While the addendum identifier appears as part of the program number, the revision letter appears on the special codes line (the line directly underneath the program abstract):

154 STEPS, REVISION B

↑ Program Revision Letter

3. Catalog Errata — PPX has been notified that there are two errors that appear in the addendum to the catalog. Please note the following corrections:

• Fisher's Exact Probability Test/Tocher's Correlation (PPX #228026D), does not require Module 2 as listed in the D addendum. The module required is the Master Library (MOD 1).

• Roulette 59 (PPX #918148E) was written by Walter Koziarz. (Our apologies for misspelling his name). Contrary to the abstract, this program requires a PC-100A/C for operation.

4. Ordering Information — Very often there is a two week time lag between the time you mailed your order and the time PPX receives it. This problem also occurs when a filled order is returned to you. For this reason, please allow 4 to 6 weeks for your order to be delivered from the time that you mailed it.

5. Programming Corner — In an effort to better zero-in on the program needs of our members, "Programming Corner" appears in each issue of the Exchange. In order to close the loop between program producer and user, we have decided to revise the operation of Programming Corner. For more details, see our "New and Revised Programming Corner" inside.

WANTED: TI-59 APPLICATIONS ARTICLES

Editor's Note: The following article asks for your support of the PPX Exchange with regards to applications articles. Your choice of a PPX membership or TI Solid State Software Module is offered for each applications article which is accepted for the newsletter. This offer will also apply to other feature articles.

TI-59 owners seem to keep finding more and more applications for their calculators. Some of the applications that PPX has heard about include security analysis, opthamology, fire control, photography, estate planning, swimming pool water analysis, and life insurance. If you have a particular application which you are using, PPX would like for you to write a general article telling about your system and what benefits it has had for you.

For every article that is chosen to be used in the Newsletter, PPX will let the author choose either a PPX one-year membership or any Solid State Software Module from the PPX catalog.

When submitting an article, please keep to a maximum of 4 typed double-spaced pages. Examples of keystroke sequences should be included to aid the reader where appropriate.

We try to get as much variety as possible into each newsletter. Therefore, publication of articles is sometimes postponed to later issues. By submitting articles of interest to PPX, you will ensure that the PPX Exchange will be as informative as possible.

THE NEW AND IMPROVED PROGRAMMING CORNER

It seems to us here in PPX that our Programming Corner has had its nose in the corner long enough; IT'S TIME FOR A CHANGE! The aim of this column has been to make members of PPX aware of program needs, in order that those needs might be met. Since PPX is not staffed to do custom programming, we would like to provide a little something extra for those members who do fulfill a program need. Here's how it will work:

1. Programs submitted to PPX to fill a Programming Corner request must be accompanied by a short note stating what request (and which Newsletter it appears in) the pro-

gram was written to fulfill.

2. The program should be received by PPX no later than two months after the last day of the last month of the

Newsletter in which the request appeared.

3. All programs received for the same request will be reviewed by PPX, and the author of the program which we consider the best will receive an order form entitling him to a complimentary Solid State Software module of his choice.

- 4. Other members who submitted acceptable request will be reviewed by PPX, and the author of the program which we consider the best will receive an order form entitling him to a complimentary Solid State Software module of his choice.
- 5. Other members who submitted acceptable (according to standard PPX criteria, Member's Guide Pg. 3) programs to fill the request will receive an order form entitling them to a complimentary Specialty Pakette of their choice.

According to the above guidelines, we will receive programs to fulfill the following requests until June 30, 1980:

- A program to generate random numbers to other than uniform or normal distributions such as Gamma, Beta, Poisson, Cauchy, or an arbitrary distribution.
- A Weibull function (3 Parameter) Program to calculate the constants from given data.
- A Golf Handicapper Program that uses the Banker's Handicapping Method.

WASHINGTON DC TI CALCULATOR CLUB EXPANDS

In the March 1979 issue of the PPX Exchange (Volume 3 No. 2), we told you about the Washington DC local TI club and published their contribution called WHAT'S YOUR PROGRAMMING POINT OF VIEW? Largely due to our announcement, their membership number climbed dramatically in a very short time. So much so, that they decided to write a newsletter of their own, in order to distribute the many contributions they received from their members. This, in turn, lead to many inquiries from T1 calculator enthusiasts from all over the country, and even some from abroad, wanting to join the fun.

Since the beginning of the year, the club has a new, more comprehensive name: The TI PERSONAL PROGRAM-MABLE CALCULATOR CLUB. Its newsletter is called the TI PPC NOTES. The newsletter brings programming aids and useful programming routines and tricks. It also publishes selected, well-documented programs. The newsletter supports all the TI programmables, but puts special emphasis on those for which there is normally no support available: the SR-52, the SR-56, the TI-57 and the TI-58.

For more information about the club, write to its editor, well known as a contributor of several articles and programs in our PPX program, Maurice E. T. Swinnen. Please send a self-addressed stamped envelope to TI PPC CLUB, 9213 Lanham Severn Road, Lanham, MD 20801. And bear in mind that the TI PPC CLUB is absolutely non-profit and is not affiliated with nor does it receive any financial help from Texas Instruments, Inc. The club just uses TI programmables because their members are convinced that those programmables are the greatest.

TEXAS INSTRUMENTS PRESENTS: SPECIALTY PAKETTES

With the assistance of Dr. Ken Stephens, UNIDO advisor in Ankara, Turkey, PPX is proud to announce the addition of two new Specialty Pakettes, bringing the total number of Pakettes to 18. These new Pakettes, both dealing with the area of Quality Assurance, are entitled:

Quality Assurance I/Sampling Plans Quality Assurance II/Control Chart

Cat. # 9B0017 9B0018

Both Pakettes are entirely self-contained and will provide functional assistance in the area of Quality Control. The QAI/Sampling Plans Pakette offers such programs as an Average Outgoing Quality Limit Sampling Plan and Unit Sequential Sampling Plans; also offered are Continuous and Single Sampling Plans. Contained in the QA II/Control Chart Pakette are programs dealing with average and range, average and standard deviation, and percent or number defective control charts. Pakettes may be ordered by writing the name and catalog number of each pakette on a PPX-59 order form and enclosing \$10 for each pakette (plus applicable tax, postage, and handling).

MEMBER #
NOTICE OF CHANGE OF ADDRESS
In order to ensure uninterrupted service, please submit change of address at least six weeks prior to change. Please mail to:
Texas Instruments, Inc. PPX Department
P. O. Box 53
Lubbock, TX 79408
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SUPER MINDBREAKER

How great are your powers of deductive reasoning? This game will let you know while providing hours of mind boggling entertainment. This game is played like Codebreaker (see page IV-101 of your Personal Programming Manual). Super Mindbreaker allows secret codes of up to nine digits and removes the restriction that no digit may be the same, and, therefore, has more possible codes. In fact, this program can have as many as 387,420,489 different codes compared to the 3024 possible codes of Codebreaker.

PPX wishes to thank the author of "Super Mindbreaker", Michael Komninos.

USER INSTRUCTIONS:

1. Enter the number of digits (1-9) to appear in the code and press A.

2. Enter the maximum value (1-9) that is to be allowed

for each digit and press B.

3. Enter a random seed number between 1 and 180,000 and press C. It takes the calculator approximately two minutes to initialize the game and pick a secret code.

NOTE: If the "standard" game of five digits, each with a value of up to eight is to be played, steps 1, 2, and 3 above can be replaced by entering a seed number and pressing 2nd A.

4. Enter a guess and press R/S. After a few seconds (about 30 seconds for the "standard" game), the score for the guess just entered is displayed in an X.Y format. X is the number of digits in your guess that appear in the secret code and are positioned correctly. Y is the number of digits in your guess which although correct, are improperly placed. To prevent ambiguity in the case of a repeated digit, the codes are compared on a one-to-one basis (i.e., if the secret

code was "121" and the guess was "123", the "1" in the guess will only be compared once against the secret code). A zero in the guess will cause an incorrect result. If a guess is entered with the wrong number of digits, a flashing display will result. To correct this situation, press CE and proceed with a legal guess.

6. Step 4 is repeated until the guess matches the secret code and a perfect score of X.0 (where X is the number of

digits in the code) is displayed.

PROGRAM NOTES:

1. The Master Library module must be in the TI-59 prior to running his program.

2. If the program is to be used with the PC-100 A/C print cradle, the following data should be stored in registers 60-66 by pressing 7 OP 17, and entering the data and then repartitioning by pressing 6 OP 17. At this point, the data can be permanently stored on with the program on banks 1 and 2 of a magnetic card.

T OF TYTOS WAYN AND A PART OF !		
Data		Register
223036		60
33313736	Single M	61
243600		62
3615323517		63
37231700		64
1421735		65
22133017		66

EXAMPLE:

PAULINII PT			
Enter	Press	Display	Comments
VV5)6	A	5.	5 Digit Code
5	В	5.	Maximum Digit Value
111054	VOG	0.	Seed
11234	R/S	1.1	Guess #1
12555	R/S	1.1	#2
52434	R/S	1.3	#3
24524	R/S	4.0	#4
44524	R/S	5.0	Game Over
			5 Guesses Required

TI-59 LISTING*

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10	101	15	E	024	11	11	047	76	LBL	070	43	RCL	093	04	04	116	32	XIT	139	57	57	162	32	32 18	5 01	01
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0	005	02	02	028	01	1	051	91	R/S	074	80	80	097	04	04	120	43	RCL	143	67	EQ	166	04	0418	9 02	02
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0)22	67	EQ	045	01	01	068	95	=	091	29	29	114	02	02	137	77	GE	160	03	03	183	06	06/20	6 43	RCL

^{*}Program listing is continued on back page.

SUPER MINDBREAKER (Continued)

207 31 31 256 33 33 305 69 UP 354 04 04 208 22 INV 257 13 C 306 00 00 355 43 RCL 209 58 FIX 258 44 SUM 307 43 RCL 356 68 68 210 81 RST 259 09 09 308 64 64 357 66 PRU 211 43 RCL 260 43 RCL 309 69 UP 358 69 UP 212 00 00 261 06 06 310 02 02 359 06 06 213 42 STD 262 42 STD 311 43 RCL 360 43 RCL 214 32 32 263 02 02 312 63 63 361 61 61 61 215 09 9 264 07 7 313 69 UP 362 69 UP 216 85 + 265 69 UP 314 03 03 363 04 04 217 43 RCL 266 17 17 315 43 RCL 364 43 RCL 218 06 06 267 25 CLR 316 62 62 365 67 67 219 42 STD 268 42 STD 317 69 UP 366 66 PRU 220 02 02 269 69 69 318 04 04 367 69 UP 221 42 STD 270 66 63 19 69 UP 368 66 66 PRU 220 02 02 269 69 69 318 04 04 367 69 UP 221 42 STD 270 06 6 319 69 UP 368 06 06 223 03 03 271 69 UP 320 05 05 369 06 6 223 95 = 272 17 17 321 43 RCL 370 07 7 224 42 STD 273 92 RTN 322 69 69 371 69 UP 266 42 STD 273 92 RTN 322 69 69 371 69 UP 266 42 STD 273 92 RTN 322 69 69 371 69 UP 266 42 STD 273 92 RTN 322 69 69 371 69 UP 266 42 STD 273 92 RTN 322 44 SUM 372 04 04 226 42 STD 273 92 RTN 322 44 SUM 372 04 04 226 42 STD 273 92 RTN 325 32 X1T 374 67 67 228 92 RTN 277 22 INV 326 69 UP 375 55 + 229 UT 1 278 58 FIX 327 00 00 376 43 RCL 233 00 0 0 279 32 X1T 325 32 X1T 374 67 67 233 43 RCL 377 68 68 82 31 22 INV 280 07 7 329 61 61 378 95 = 232 244 PRD 281 69 UP 370 60 63 36 44 SUM 380 06 06 234 43 RCL 283 01 1 332 32 X1T 381 06 6 6 235 32 32 284 44 SUM 333 69 UP 376 69 UP 376 55 FIX 328 22 INV 287 06 06 336 44 SUM 380 06 06 234 43 RCL 377 68 68 83 61 3 C 240 32 32 289 22 INV 338 06 6 387 76 LBL 241 65 × 290 67 EQ 339 69 UP 398 90 UP 375 55 FIX 249 40 UP 380 07 7 329 61 61 378 95 IP 72 33 32 32 282 17 17 331 04 04 380 06 06 6 383 17 17 237 59 INT 286 43 RCL 335 01 1 384 25 CLR 238 22 INV 287 06 06 336 44 SUM 380 06 06 6 224 INV 287 06 06 336 44 SUM 380 06 06 224 30 32 289 22 INV 338 06 6 387 76 LBL 241 65 × 290 67 EQ 339 69 UP 396 25 CLR 247 76 LBL 291 01 01 340 17 17 389 06 6 6 224 18 291 01 01 340 17 17 389 06 6 6 225 CLR 247 76 LBL 296 66 66 63 345 14 UP 394 22 INV 246 92 RTN 295 43 RCL 344 76 LBL 393 52									See .				
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FROM THE ANALYST'S DESK

• PPX member Robert Somors has found the following method which saves program steps when two results are required for one input. For instance, when calculating a correlation coefficient, two results, Σx^2 and Σxy , are needed for each x. If Y is stored in R_{00} and X in R_{01} , and the result of Σx^2 and Σxy are to be placed in R_{02} and R_{03} , respectively, then the conventional method of calculation would be:

000	43	RCL
001	01	01
002	33	Xs
003	44	SUM
004	02	02
005	43	RCL
006	01	01
007	65	X
008	43	RCL
009	00	00
010	95	=
011	44	SUM
012	03	03
013	91	R/S

However, if use is made of the pending operations feature of the TI-59, the value of x (R_{01}) need only be recalled once:

000	43	RCL
001	01	01
002	65	×
003	33	Xz
004	44	SUM
005	02	02
006	43	RCL
007	00	00
008	95	=
009	44	SUM
010	03	03
011	91	R/S

The multiplication sign (Step 002) duplicates the contents of the display register into the first hierarchy register. Since the display register contents are not changed, the first result (x² SUM 02) can be calculated before the pending multiplication is performed. When the equal sign is encountered, it causes all pending operations to be completed, and the second result is computed. This technique will also save data registers if the input is directly from the keyboard, since a register will not be required for storage of the input.

• For those members who have the Star Trek system, PPX #000001, one correction needs to be made: on page 66 of the system, steps 129 and 130 should read RCL 23 instead of RCL 24.

MEMBERSHIP RENEWALS

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Membership Number	Must be postmarked by:
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918665-918854	June 15
918855-919517	July 15
919158-919468	August 16

Members with numbers greater than those listed above will be informed of their renewal dates in a future issue of the PPX Exc hange.

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