

PPX Exchange

Vol. 4 Number 4 Copyright 1980

July/August 1980

Contest Winners

Congratulations to the lucky PPX members whose names were drawn from among the 5,000 members who responded to our newsletter survey.

Terry Blake, Elmer Green, Dwight Hughes, Robert Savage, and L. E. Snyder will each receive either a TI digital watch or \$100 worth of PPX software.

We would like to thank all of the members who sent survey responses. The information we gained will help us to serve you better.

Hustled

By Robert Wyer

It started off innocently enough. We were well underway on our drive to a close friend's surprise birthday party. To pass the time, my "friend" suggested we place a wager on how many cars' license plates we would have to see before we would see a match of the last two digits. Any of the cars we saw would be considered for a possible match.

Feeling lucky and quickly figuring only 100 possibilities, I said a match would occur in 40 cars. My "friend" said that to make it interesting, he would bet a match would occur in 20 cars. "Like taking candy from a baby," I chuckled! Well, to make a long story boring, I lost at a rate of about 9 out of 10 bets.

When we arrived, me checking my billfold for its now-noticeably emaciated appearance, my "friend" stated that he would give me a chance to win my money back. Of the 50 people at the party, he said I could ask any 25 of the guests and there would be a match of at least one birthday. What I thought was my chance to get even yielded yet another loss. Disgusted (and broke), I retired to the birthday boy's bedroom to lick my wounds.

Aha! A TI-59 and printer were set up on the desk in front of me. Being naturally opportunistic (especially when it comes to getting even), I quickly rejoined the party to search out yet another friend of mine, who was a mill-wright at the plant at which I worked. My objective was simple. This friend, although some consider him to be a common laborer, has had more than a mere smattering of statistics.

Once we were alone, I explained to him my story and asked if he could aid me with the statistical end of the problem. He agreed, however, only at a nominal 50% find-

TI-59 APPLICATIONS:

Advertising

By Jeremy D. Sprague

Large computers are used extensively by advertisers, advertising agencies and advertising media to determine the effectiveness of their advertising in terms of potential clients reached versus cost.

We have developed a number of media analysis programs for our TI-59, which we estimate save us about \$400 per month in timesharing terminal time—35% of our total.

One of the most widely used media analysis techniques involves the computation of the "reach and frequency" of an advertising schedule. For example, if six advertisements are run, how many people will be exposed to at least one of the advertisements? Among those seeing any part of the schedule, what is the average number of times they will be exposed?

Our program "Advertising Reach/Frequency Analysis" (PPX #048005F) uses the industry-accepted Beta Binomial Distribution Model to make these calculations. In addition to determining the net reach of a given number of advertisement insertions, and the average frequency of exposure, the program also computes the gross impressions (average issue audience multiplied by number of insertions) total cost of the schedule, and cost-per-thousand.

The Beta formula uses, as input, the population (total or demographic) of the geographic area served, and two figures obtained through audience survey research: the average issue audience, and the cumulative net audience to two issues ("cume"). Comparable figures are available for broadcast media.

If audience research statistics are not available, approximations can be made based on industry averages for readers-per-copy and audience turnover rates, with, of course, some loss of precision. The average daily newspaper, for example, has 2.15 readers-per-copy, and a two-issue cume 1.2 times the average issue audience. But few newspapers are average!

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Letters to the Editor

Do you have comments, compliments or (shudder) complaints about PPX-59? We have always welcomed letters from our membership, and starting with this issue we will provide space in each newsletter to share your views on PPX with your fellow members. Approximately 3-5 letters dealing with issues of general interest will be featured in each issue. Letters will be edited to fit the space available.

Dear Sirs:

What publications besides "Byte," "Display," "Chemical Engineering," and "Journal of Chemical Engineering" publish articles related to the TI-59?

My second question is, why are numbers missing from the "E" Addendum? Have they been canceled for newer ones?

And my final question is, why are the newsletters so far behind?

Jose Miguel Gallego Garcia Tijuana, Mexico

Dear Mr. Garcia:

The only publication we are aware of which regularly publishes material on the TI-59 is "TI PPC Notes," published monthly by the TI Personal Programming Calculator Club. Its editor is well-known PPX member Maurice Swinnen. For information, send a stamped self-addressed envelope to him at: 9213 Lanham Severn Road, Lanham, MD 20801, USA.

Programs which are found to contain serious errors after they have been accepted are removed from the catalog. Also, programs are occasionally assigned a number in the wrong category. Such program numbers are generally not re-assigned.

Ah, the newsletter! I'm afraid our ambitions are to blame on this one. Now that we have switched to a local printer and solidified our change to the new, longer format, we hope to be able to put the newsletter out on schedule once again.

Dear Sir:

The following information may be of interest to federal government users of thermal paper catalog number TP 30250. This paper is available as stock number 7530-01-050-6065.

Charles Heimerdinger Sheppard Air Force Base, TX

Dear PPX:

The finest issue of PPX arrived last weekend and I was very impressed by it, and the new format and all.

I read the article asking for programs to print up the print code on P. 1, and attached is my version of the idea.

Theodore M. Bones, Jr. Princeton, WV

COMPLEX LADDER ANALYSIS

PPX members, C. J. McCluskey and R. Travis wrote a TI-59 program for the analysis of complex ladder networks that should be valuable to electronics engineers who design LC filters. Their program was published in the May 10, 1980 issue of Electronic Design magazine. The program allows up to nine branches with one L and one C per branch. The equivalent series resistance of each inductor and the equivalent shunt resistance of each capacitor may be included. There are three output options; 1. Transfer impedance and insertion loss, 2. Input impedance and voltage transfer, 3. Group delay.

The program should be especially useful for calculating the effects of component losses and tolerances on Butterworth, Chebyshev and Cauer (elliptic) filters. In addition, book values for these filters do not always cover the group delay characteristic, which is of importance in filters required to transmit digital signals.

The program has been designed to make data entry easy and relatively foolproof. Branch numbers are used to index the data storage for easy editing. The entries are made in units of λH , pF and Ohms with printed captions which are protected so that the program can be run in fixed decimal format. Other unit combinations are possible.

The program design is such that null entries are not needed. That is to say that if a component does not exist in a branch, it is ignored. This solves the potentially difficult problem to the user of ensuring the connectivity of the ladder containing series and shunt branches of series or parallel connected elements.

Source and load resistances are entered as data and also the start, stop and step frequencies. Thus the program can produce results for single frequencies or an automatically stepped series of frequencies. The running time is about two minutes per frequency for a nine-branch ladder. The program requires the PC-100A printer and the Master Library module (for complex number routines.)

The article is titled "TI-59 calculator analyses complex ladder networks", by C. J. McCluskey and R. Travis of Spilsbury Communications, Vancouver, B.C., Canada. Single copies of the magazine may be available, and article reprints are available for a fee. For details, write to Electronic Design, 50 Essex St., Rochelle Park, NJ 07662.

PPX members who request reprints should be aware of a typographical error in the listing: step 432 should be 47, not 27 as shown.

The PPX Exchange is published bimonthly and is the only newsletter published by Texas Instruments for TI-59 owners. Members are invited to contribute articles and items of general interest to other TI-59 users. Please limit your submissions to four double-spaced typed pages, and forward them to:

PPX P.O. Box 53 Lubbock, TX 79408 Attn: PPX Exchange Editor

Mystery Series

Eric Tatara of Plymouth, New Hampshire, thinks he might stump, challenge, and confuse some members with the following keystrokes that, when pressed without entering learn mode, will generate the series 1, 1, 2, 3, 5, 8, 13, 21. . . .

With the calculator in power-up state, press 8322481949 x 6.5 = STO 00 0 2nd Op 17 GTO 953 R/S.

Stop by pressing R/S. How did he do this? If you give up, turn this page upside down for the solution.

If the sign digit is an 8 or 9, the display will flash if the number is recalled as data. In the mystery series program, the sign digit appeared at location 952. Since both the number and exponent were positive, the sign digit was zero.

L	-	-
9	-	-
9	-	+
Þ	-	+
3	+	-
2	to 00111	-
I	10 2011	+100
0	tomoth	1

Number Sign Exponent Sign

The TI-59 has 120 registers available in the memory atorage area. These registers can be used for program memory or data memory depending upon what partition is set (up to 100 data registers or 960 program steps). Eight program steps can be stored in one register (total of 16 digits) or one data number (also stored as 16 digits: 13 for the value, two for the exponent and one to encode the signs of the value and exponent). The digit that encodes the signs is the units digit of the first code in the block of eight codes. The following table lists the different possibilities:

79	ÞS	696
60	60	896
CLD	19	296
TIX	35	996
UAA	99	996
+	98	PS6
T	10	896
0	00	396

ory as:

The content of register zero was interpreted as program memory after changing the partition from 6 OP 17 to 0 Op 17. The value stored in register 00, 5.40961326685 \times 1010 (including guard digits), then appeared in program mem-

SOLUTION TO MYSTERY SERIES:

FEDERAL INCOME TAX CALCULATION

By

Otis F. Bryan, Jr.

As inflation drives people into higher income tax brackets, tax considerations become more important in making financial decisions. Thus, it is helpful to have a TI-59 routine that calculates Federal Income Tax given some taxable income without having to carry tables around. A program written for this purpose could use data packing and regression to get more efficient use of memory and time.

Three numbers are needed to calculate income tax: the lower end point of the bracket, the base tax for that bracket, and the tax rate for all income over the end point. For example, one bracket has a lower end point of \$24,600, a base tax of \$4,505, and a rate of 32% of everything over \$24,600.

Without packing, it would take 45 registers to store the data for the 15 brackets used by married couples filing jointly. However, the data for any bracket occupies at most 12 digits—which will fit into the data registers (remember the guard digits). With packing the required memory is cut to 15 registers.

The marginal tax rate occupies the right hand two digits. The base tax takes the next six digits and, if necessary, is preceded by leading zeroes and a decimal point. The lower end point drops the trailing two zeroes and goes to the left of the decimal point. The example above is written as 246.00450532. Table 1 shows the content of the registers for married couples filing jointly.

TABLE 1

1979 FEDERAL INCOME TAX RATES FOR MARRIED, FILING JOINTLY

REGISTER	CONTENTS
1	34.00000014
2	55.00029416
3	76.00063018
4	119.00140421
5	160.00226524
6	202.00327328
7	245.00450532
8	299.00620137
9	352.00816234
10	458.01272049
11	600.01967854
12	856.03350259
13	1094.04754464
14	1624.08146468
15	2154.11750470

Storing the data is simple: enter the decimal part, add the integer part, and store the sum. The right hand two digits will disappear because the display holds only 10 digits, but they are still there. To see this, press INV 2nd Int.

Value of Sign Digit

ADVERTISING

The computational formula used in our program is as ollows:

$$C_N = C_{N-1} + \left(\frac{b + N-2}{k + N-1} (C_{N-1} - C_{N-2}) \right)$$

Where: C_1 = Average issue audience

C2 = Two-issue cumulative audience

N = Number of insertions

And:

$$k = \frac{C_2 - C_1}{2C_1 - C_2 - \frac{(C_1)^2}{p}}$$

$$b = k \left(1 \frac{C_1}{p}\right)^p$$

p = population

While this "reach formula" can be executed on a nonprogrammable calculator, it is an extremely tedious and time-consuming process, and most users of this type of information are not used to working with mathematical formulae.

Since the formula will not work for a single insertion (when $C_{N\cdot 1}$ = 0) and since C_1 and C_2 are known from audience research, the formula is bypassed for a one- or two-insertion input. For a schedule of ten insertions, for example, eight passes through the formula are necessary.

Example

Input

population = 250,000 two-issue cume = 129,500 average issue audience = 112,000 insertions = 6

Output

CWDD/RF	
6, USE 268.8 GRP 60.7 %RCH 4.43 FRQ 151802. NET 672000. GRD	
250000. PDP	
CND+D SALES DEVELOPMENT SERVICES	
151,802	Input
131.006 148.473 .3948199621 .2179406191	Distribution Program

This program can accomplish literally hours of manual computations in less than a minute. Running time is about ten seconds for the first three insertions, and slightly under four seconds each for subsequent insertions.

Our second program, "Advertising Frequency Distribution," (PPX #048004F) determines the number of individuals who were exposed to one of the scheduled insertions, to two of the six, etcetera. Obviously, no one received the "average frequency" of 4.43 developed in the example above. Using four factors (C_N , $C_{N\cdot 1}$, k and b) output by the first program, this program uses the following formula:

$$\begin{split} R_1^N &= N \ (C_N - C_{N \cdot 1}) \\ then, \\ R_t^N &= \frac{a + \ t \cdot 1}{b + N \cdot 1} \ \bullet \frac{N - \ t + 1}{t} \ \bullet \ R_{t \cdot 1}^N \\ when, \end{split}$$

a = k-b

t = number of exposures (insertions seen)

Applying this formula to the previous example, we get the output:

CWDD/CUME (000)	
20. 0 13. 9 12. 6 13. 5 9 Woelsisr 73. 3 lator Museum 151. 802	Exposed Once Exposed Twice Exposed 3x Exposed 4x Exposed 5x Exposed 6x (See "NET" on Table I)
EXPOSED X+ TIMES 4. =X	
105.3	Exposed At Least Four Times out of Six Opportunities

Note the figure under "Exposed X + Times, 4 = X." In this option, X can be set at any number between 1 and N.

Extensions of the basic formula allow reach computations involving several media vehicles in combination, if the degree of "non-randomness" of duplication between the vehicles is known (i.e., the net audience to one insertion in each), although in some cases random duplication can be assumed. "Advertising Multi-R/F" (accepted for the G Addendum) calculates this using output from the initial program.

"Advertising: Iterative Reach" (PPX #048008G) uses a special adaptation of the basic reach formula to calculate the net reach delivered by three, four, five, etc. insertions, stopping when it has reached the desired reach level, which was input.

ADVERTISING

Another program recently accepted by PPX ("Advertising: C₂ Finder") will take the net reach of any number of insertions and work it back to a two-issue cume for use in other computations. This is especially handy since many audience research reports contain, as published, an average issue audience and a four- or five-issue cume, but not the two-issue figure needed for the Beta formula (these published reports are sales rather than research oriented). This program was made possible by using portions of Richard Humphrey's "Improved Function Approximation" (PPX #398170E).

Two programs which have not yet been submitted to PPX are "Fast Net Reach," for use when a large number of net reaches (and only net reach) must be generated quickly, and "Gross/Net/Frequency," which will compute the third element when the other two are known. The latter program uses the "Label (X). CP INV x=t" routine for number entry routing which was described in the September 1979 "Analyst's Desk".

We still must use large computers for very complex problems, particularly for frequency distributions involving more than one media vehicle, but the cost savings we gain by using our TI-59 programs have permitted much experimentation which we otherwise could not have afforded.

HUSTLED

er's fee for any new victims which I would encounter. After developing a basic recursion formula for the probability of at least one match in a group of observations (given the maximum number of possible different observations), I keyed in the following program:

000	76	LEL	024	53	(048	01	1
001	11	A	025	43	RCL	049	54)
002	53		026	01	01	050	54	0
003	42		027	65	×	051	44	SUM
004	03		028	43	RCL	052	02	02
005	35	200	029	00	The same of the sa	053	42	STO
006	42		030	65	×	054	01	01
007	01	ni	031	53		055	69	OF.
nna	42	STO	naz	43	The same of the same of	056	20	20
009	02		033	03		057	43	RCL
010	35		034	85		058	00	00
011	85		035	01		059	67	EQ
012	01		036	75	-	060	23	LNX
012	54		037	43		061	98	ADV
						-		
014	32	XIT	TO THE PARTY	00	1000000	062	99	PRT
015	02		039	54		063	43	RCL
016	99		040	55	-	064	02	02
017	42		041	43	7 3 10 100	065	99	PRT
018	00		042	03	1750	066	61	GTD
019	43	RCL	043	55	1735	067	22	INV
020	02	02	044	53	- 1	068	76	LBL
021	99	PRT	045	43	RCL	069	23	LHX
022	76	LBL	046	00	00	070	92	RTN
023	22	INV	047	75	-			5 8 FM

Editor's Note: To use this program without a printer, substitute R/S for Prt at steps 62 and 65. After entering the maximum number of observations, press A and then press R/S twice (the first time R/S is pressed, the sample size will be displayed and the second time it is pressed, the corresponding odds for a match will be displayed).

By simply entering the maximum possible observations as described above and pressing A, the program prints out the probability of at least one match in a sample size from 2 to the maximum number of possibilities. Entering 100 (the maximum number of two-digit numbers contained on a license plate), the chart that was printed yielded that the odds would swing in my favor at 13 plates! Quickly plugging in 365 (the maximum possible birthdays, not considering leap year), the probability of a match passes 50% at 23 people. I'd been hustled! A smile slowly crept across my face.

On our way home, I asked my buddy about one more chance to get even.

"Why not?" he responded.

I calmly suggested matching three rather than two of the last numeric digits on the license plates. "Say about 40 cars?"

"Why forty?" he said. "Your break point is at 38. Trying to hedge your bet?"

As he smiled, he removed his billfold, and in amongst my "cash" was a piece of PC-100 printer paper. Guess what was on it! The printout of the very odds I had calculated.

The moral to this story is: 1) Never try to hustle a hustler. 2) Always cover your tracks (or at least destroy discarded but useful information like PC-100 paper with your odds on it). 3) And finally, your TI-59 can be used for more things than simply crunching numbers.

Editor's Note:

Due to Bob's recent financial incapacitation, he requested that his free statistics module go to his "friend".

Home Computer Contest

Attention TI-99/4 enthusiasts: Texas Instruments has announced an Author Incentive Program for persons submitting innovative programs written for the 99/4 or other microcomputer.

Top prize in the contest will be \$3,000. In addition, there will be five \$1,000 prizes and twenty \$500 awards.

Programs may be written in any high-level language used on microcomputers, or in assembly language.

Additional information regarding this contest is enclose with your newsletter. Deadline for program submittal is November 15, 1980.

COMPLEX KEYBOARD

By Frank Fujimoto

The program below will simulate a complex calculator with complex arithmetic and functions (including trig). It is written using common label subroutines which correspond with the desired complex operations (e.g. the sin of a complex number is taken by pressing SBR sin). The program allows for eight pending operations and seven memories. The arithemtic section operates exactly like AOS except that each pending operation level can hold up to nine levels of parenthesis. The Master Library is required for execution.

USER INSTRUCTIONS:

- 1. Partition to 4 Op 17 and enter program. To enter the HIR keystroke (this keystroke was explained in the May/ June 1980 issue of the Exchange), press STO 82 STO NN, where NN is the 2-digit code following the HIR command. BST and delete the two STO's.
- 2. Key in the complex number by first entering the real part, press Xt, then the imaginary part, press A. (After A is pressed, the sign of both the real and imaginary parts of the number may be changed by pressing SBR +/-.) NOTE: All computed and recalled values may be used and processed immediately, however, all keyboard entries must be followed by pressing A.
- 3. Operations. The following operations can be performed by pressing SBR X, where X is the operation: x^2 , \sqrt{x} , 1/x, sin, cos, tan, lnx, log, +/-, (,), +, -, x, \div , y^x , $\sqrt[x]{y}$ (press SBR INV for this operation), and =. For the inverse of any of these, press B before pressing the operation.
- 4. Memory Register Functions. Enter the memory register number (0-6) and press SBR, then press one of the following functions: STO, RCL, Exc, SUM, and Prd. For the inverse of these functions precede pressing the function with pressing B.

							2000	
000	82	HIRO16	82	HIRO32	22	INVO48	09	0.9
001	16	16017	15	15033	86	STF049	82	XtT
002	32	X:T018	42	STD034	01	01050	01	1
003	82	HIR 019	01	01035	91	R/8051	00	0
004	15	15 020	82	HIR 036	76	LBL 052	42	STO
005	91	R/S 021	16	16037	25	CLRD53	00	00
006	78	LBL 022	42	STD 038	00	0 054	25	CLR
007	11	A 023		03039	82	HIRD55	91	R/S
008	82	HIR 024	92	RTH 040	05	05056	76	LBL
009	06	06 025	76	LBL 041	82	HIRO57	53	
010	32	X:1026	12	B 042	06	06058	43	RCL
011	82	HIR D27	22	INV 043	42	STD059	06	06
012	05	05 028	87	IFF 044	05	05060	5.9	INT
013	81	RST 029	01	01 045	42	ST0061	32	XIT
014	76	TBT 030	00	00 046	06	06062	09	9
015	10	E . 031	33	33 047	42	ST0063	67	EQ

Exam	ple: Solve t	he following equation	ns for E.
A =	3 + 7i B	= 4 + 2i $C = -7 +$	- 6i
D =	$\sqrt{(\log A + s)}$	sin B) x A ²	
E =	$e^{D} \times (c + \frac{1}{D})$		
Enter	Press	Display	Comments
	SBR CLR	0.	Initialize
3	x∖t	0.	Enter A
7	Α	3.	
0	SBR STO	3.	Store in R _o
	SBR log	.8817139968	log A
	SBR +	.8817139968	
4	x≱t	.5063459084	Enter B
2	Α	4.	
1	SBR STO	4.	Store in R ₁
	SBR sin	-2.847239087	Sin B
	SBR =	-1.96552509	log A + sin B
	SBR X	-1.96552509	
90 V	SBR RCL	3.	Recall R _o
	SBR x ²	150-40m	A ²
	SBR =	156.9227906	$(\log A + \sin B) \times A^2$
	SBR √X	12.53092772	D
	B SBR Inx	262857.7333	eD
	SBR X	262857.7333	
	SBR (262857.7333	
7	+/- x\t	-86632.78568	
6	Α	-7.	Enter C
	SBR +	-7.	
1	SBR RCL	4.	Recall R ₁
	SBR 1/X	0.2	$\frac{1}{B}$
	SBR =	-1276299.151	real E
	x≱t	2139963.569	Imaginary E
064 (065 7	03 03 080	32 X4T 096 76 44 SUM 097 75	LBL112 45 YX

064	03	03080	32	X1T 096	76	LBL112	45	YX
065	73	73 081	44	SUM 097	75	- 113	06	6
066	43	RCL 082	09	09098		3 114	61	GTD
067	05	05 083	22	INV D99	61	GTU115	82	HIR
068	59	INT 084	44	SUM 100	82	HIR116	76	LBL
069	32	X:1 085	05	05 101	76	LBL117	22	INV
070	01	1 086	69 1	OP 102	65	X 118	07	7
071	67	EQ 087	25	25 103	04	4 119	61	GTD
072		00 088	69	OP 104	61	GT0120	82	HIR
073	88	88089	26	26 105	82	HIR12	76	LBL
074	93	. 090	81 1	RST 106	76	LBL 122	54	2
075	10	1 091	76 1	LBL 107	55	+ 123	01	1
076	49	PRD 092	85	+ 108	05	5 124	61	GTO
077	06	06 093	02	2 109	61	GTU125	82	HIR
078	49	PRD 094	61 1	GTO 110	82	HIR 126	76	LBL
079	09	09 095	82	HIR 111	76	LBL127	95	=

128 00 0 189 36 PGM250 76 LBL311 16 16 129 86 STF190 05 05 05 251 39 CBS312 72 STH 130 00 00191 14 D 252 10 E* 313 03 08 08 131 76 LBL192 32 X*TZ53 87 IFF314 81 RST 132 82 HIR 193 11 A 254 01 01815 76 LBL 133 42 STD194 76 LBL255 06 0316 74 REY 134 07 07195 35 1/X256 00 00317 19 D* 135 55 + 196 10 E* 257 36 PGM318 82 HIR 136 02 2 197 36 PGM258 06 06319 15 15 137 95 = 198 05 05259 13 C 320 63 EXH 138 59 INT199 15 E 260 32 X*TZ31 08 08 139 32 X*TZ00 32 X*TZ61 11 A 322 82 HIR 138 34 27 200 32 X*TZ61 11 A 322 82 HIR 144 05 05 05 02 76 LBL263 30 TAN324 69 DP 142 55 + 203 23 X*TZ64 10 E* 325 82 88 143 02 2 204 10 E* 255 87 IFF366 82 HIR 144 95 = 205 87 IFF266 01 01327 16 16 16 16 16 16 16 16 16 16 16 16 16									
133	100 2	10 0	00 00	noune	0 -0		22.5		15
133	100 0	10 0 1	69 35	Peliko	U rb	FRF	211	16	10
133	127 8	o SIFI	90 05	U525	1 39	UUS	312	12	5 7
133	130 0	10 00	91 14	D 25	2 10	E	313	88	
133	131 7	6 LBL	92 32	WATES	3 87	IFF	314	81	RST
140	132 8	2 HIR	99 11	0 05	4 01	0.1	215	74	IRI
140	132 4	2 CTH	22 34	1 6 6 6	5 00	100	0.10	10	EUC
140	101 0	2 2 1 1	74 (5	LBLAD		50	215	40	EVE
140	104 0	T UT	195 35	1/8/20	6 00	UU	317	19	
140	135 5	0 + 1	196 10	E = 25	7 36	PGM	318	82	HIR
140	136 0	2 2 1	97 36	PRM25	8 06	06	319	15	15
140	137 9	石 士	90 n=	0505	9 13	4	220		FV#
140	122 5	S THIT	00 15	E 02	0 00	22 T	001	00	000
140	100 0	2 614	199 13	E 20	0 00	CV4 I	241	0.0	UC
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424 42 STD485 32 32546 06 06607 19 B* 425 02 02486 61 GTD547 59 INT608 32 X;T 426 69 DP 487 05 05548 29 CP 609 11 A 427 30 30488 36 36549 22 INV 428 73 RC+489 61 GTD550 67 EQ 429 00 00490 05 05551 05 05 430 42 STD491 08 08552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	423		0.0	484	0.5	05545	43	RCL606	06 06
425 02 02486 61 GT0547 59 INT608 32 X1T 426 69 DP 487 05 05548 29 CP 609 11 A 427 30 30488 36 36549 22 INV 428 73 RC+489 61 GT0550 67 EQ 429 00 00490 05 05551 05 05 430 42 ST0491 08 08552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	424	42	STO	4.85	32	32546	06	06607	19 D
426 69 DP 487 U5 U55548 29 CP 609 11 A 427 30 30488 36 36549 22 INV 428 73 RC+489 61 GTD550 67 EQ 429 00 00490 05 05551 05 05 430 42 STD491 08 08552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	425	02	02	485	61	G10547	59	INT608	32 X1T
427 30 30488 36 36549 22 INV 428 73 RC+489 61 GTD550 67 EQ 429 00 00490 05 05551 05 05 430 42 STD491 08 08552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	426	69	OP.	487	05	05548	29	EP 609	11 A
428 73 RC+889 61 GTU550 67 EQ 429 00 00490 05 05551 05 05 430 42 STU491 08 08552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	427	30	30	488	36	36549	22	INV	
429 U0 00M9U U5 U5551 05 05 430 42 STD491 08 08552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	428	13	RC*	489	61	G10550	67	EQ	
430 42 570491 U8 U8552 69 69 431 01 01492 43 RCL553 69 DP 432 01 1 493 01 01554 35 35	429	UU	0.0	490	U5	05551	U.5	05	
431 01 01H92 43 KULD53 69 DP 432 01 1 493 01 01554 35 35	430	42	STO	491	ng.	08552	69	69	
432 Ul 1 493 Ul 01 554 35 35	431	Ul	01	472	43	KUL 553	59	UF	
	432	Ul	-1	175	Ul	01954	35	35	

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Is your membership about to expire? To ensure that you will miss no newsletters, catalogs, or ordering privileges, check the renewal table to find out if your membership will soon expire.

A renewal card and reminder will be sent to each member in ample time to renew. Return the card to PPX with your check or money order for \$18. Be sure to include your membership number on both your card and your check.

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919573-920478	September 15
920479-921076	October 15
921077-921780	November 15
921781-922653	December 15

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INCOME TAX

Unpacking is straightforward. With the data in the display, press 2nd Int to get the lower end point in hundreds of dollars. To get the base tax, press INV 2nd Int, multiply by 1 EE 6, press INV EE, then 2nd Int. To get the marginal tax rate, do the same as for the base tax, except replace 2nd Int with INV 2nd Int.

Before the data can be used, one must find the proper bracket. One way is to search upward comparing the end point of the bracket with the taxable income until the right data is found. A faster way is to get a good estimate of the bracket and then do a "local search". This is explained below:

If the tax data is packed into the first 15 registers (1-15), one can get a nice fit by regressing the register number against the end point using a logarithmic curve ($r \approx .97$). The following formula was derived using the Curve Fit programs of the Real Estate Module.

RN = -12.61688508 + 3.61963091 x TI + 1 where:

RN = Estimate of the register number
TI = Taxable Income (hundreds of dollars)

The "+1" biases the estimate upward so that the local search will be down. A regression curve falls on both sides of this data. A downward search requires the curve to be above the data everywhere.

To illustrate, suppose the taxable income is \$25,210. Then TI = 252.1 and RN = 8.399. Truncating this (2nd Int) gives the 8th register as a good place to start looking. The correct register is 7 (see Table 1), but the search routine will find this in one iteration rather than seven. The tax, by the way, turns out to be \$4,700.20.

While these techniques are general, the program I wrote was custom designed to meet my needs. When the adjusted gross income is entered, the program takes off five exemptions to get the taxable income and calculates the tax. No effort was made to extend this to other rate tables, although that should be straightforward.

The efficiency was good enough to leave plenty of memory for an income averaging program on the same card. Given an adjusted gross income, the program will determine if I should income average, calculate the tax, and print the data to fill out Schedule G. Otherwise, it will calculate the tax in the regular way and display it.

A note on the architecture of memory use: The memory was repartitioned so that 80 registers and 320 instructions could be used. This means that 8 Op 17 has to be executed before the cards can be read. Registers 7-32 are used for income averaging results so that the printed register number corresponds to the line number on Schedule G (the calculator was made for man, not man for the calculator). Data for lines 1-6 from Schedule G are kept with the tax records because they are not needed for any decision. The tax data is stored in consecutive registers beginning with 54. That was convenient at the time and nothing has come along to change it.

Dual Purpose User-Defined Keys

By Forrest Chambers

Editor's Note: An article on this topic previously appeared ed in the November 1977 issue of the Exchange. Recently, PPX received the following article, which uses a method different from the "flag" method of the earlier article.

Now and again while using one of my collection of PPX programs, I encounter a data entry routine that requires the operator to press SBR x², SBR STO, etcetera, after each data entry. This awkward method of subroutine access is usually resorted to because of all the user-defined keys (A-E') have already been used for data entry.

Recently, in writing a program of my own, I ran up against the same brick wall. I needed to be able to easily access 21 different routines from the keyboard. After a little thought, which by no means came easily to me, I decided to try to develop a method for calling subroutines that utilized two user-defined keys (UDK) in succession. At first I tried having each UDK (A-E) set a flag and then testing the flag conditions to determine what location to transfer to. By using five UDKs, I would be able to create 25 different conditions (use of four UDKs would only create 16 conditions, which wasn't quite enough). Three erasers and two pages of code later, I discovered that by the time I tested for all the conditions I would have no room left for the "body" of my program! ("Beneath the Planet of the Flags," in the last issue, showed that a 104-step program is required to test for only eight conditions-Ed.)

And then the light dawned on me—I had been barking up the wrong brick wall. By storing the absolute addresses of each routine in packed form in data registers, I could use the GTO IND command to direct processing to the correct routine. Since each absolute address requires a three-digit code, three addresses could easily be stored per register (four if the guard digits are used). In my program, "Lbl" AA was to be located at program step 200, AB at 231, AC at

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2. PPX is sorry to announce the departure of operations manager Kevin McGarrigle, who is transferring to Texas Instruments' Dallas office.

USER-DEFINED KEYS

239, AD at 251, and AE at 267. This data was packed in registers 30 and 31 as shown below:

200.231 239 30 251.267 31

Similarly, the routine locations for BA-BE would be stored in registers 32 and 33, and so on for C, D, and E.

Since most of these keyboard-accessible routines were data entry/computation routines, it was necessary to make provision for the contents of the display register to be in the x register when transfer was made to the routine. Temporary use of registers 01 facilitated this function.

Register 00 was used as a location counter and flag 0 was used to signal the first or second keystroke.

The last barrier was that of time. For it would be of no advantage to press AA instead of SBR x² if I had to wait to press the second "A". To speed the program, I absolute-addressed (faster than label addressing and the speeding bullet) the routine transfer segment of the program.

To my extreme pleasure, only a mere second's pause was required before pressing the second UDK.

The final result was the 103-step program listed below. To test the routine: (1) enter the program, (2) place R/S at steps 200, 231, 239, 251, and 267, (3) load registers 30 and 31 as shown previously, (4) press A, wait one second, press A again, and (5) enter the Learn mode. The program step counter should be at 201, showing that the transfer was made properly.

						h (Tal
000	76 LI	BL 035	J (50	C(50)	070	67	EU
001	11 1	9 036	65	30	071	00	00
002	32 X	T 037	02	2	072	98	98
003		1 038	85	+	073	73	RC*
004		TD 039	02	2	074	00	00
005		00 040	08	8	075	65	X
006		32 041	95	=	076	01	1
007	76 LI	BL 042	42	STO	077	52	EE
008	12	8 043		00	078	03	3
009	32 X	T 044		STF	079	95	=
010	02	2 045	00	00	080	22	INV
011	61 G	TO 046		XIT	081	59	INT
012		00 047		STD	082	59 65	X
013	32	32 048	01	01	083	01	1
014		BL 049	91	R/S	084	52	EE
015		050		INV	085	03	3
016	32 X	T 051	86	STF	086	95	=
017		3 052	00	00	087	42	STO
018	61 G	TD 053	32	XIT	088	00	00
019		00 054	03	3	089	43	RCL
020	32	32 055	77	GE	090	01	01
021	76 LI	BL 056	00	00	091	83	GO*
022	14	057	65	65	092	00	00
023	32 X	T 058	69	DP	093	73	RC*
024	04	4 059	20	20	094	00	00
025	61 G	TU 060	32 75	XIT	095	61	GTD
026		00 061	75	-	096	0.0	00
027	32	32 062	03	3	097	87	87
028	76 L	BL 063	95	=	098	73	R'C*
029	15	E 064	32	MIT	099	0.0	00
030	32 X	IT 065		1	100	61	GTO
031		5 066		EQ	101	00	00
032		FF 067		00	102	80	80
033		00 068		93	111111111111111111111111111111111111111		
034	00	00 069	02	2			

from the Analyst's Desk

• PPX member W. Calvin Moore of York, Pennsylvania, sent us two programming ideas which we would like to pass on to you:

1. If the SUM or INV SUM hierarchy commands (HIR code 82) are used, a fraction is multiplied by ten to the power related to the decimal point location before the SUM command is executed. For example, .1 becomes 10, .02 becomes 200. This can be prevented by entering the number in the EE mode. Note the two routines below:

000		LBL
001	11	A
002	99	PRI
003	82	HIR
004	38	38
005	99	PRT
006	82	HIR
007	18	18
008	99	PRT
009		RDV
010	91	RVS

000		
001	11	A
002		EE
003	99	PRT
004	82	HIR
005	38	
006	99	PRIT
007	18	HIR 18
008	99	BRI
010	98	
011	91	R/8
	2.2	100

Enter .5, press A. The first routine will incorrectly display 50, but the second will display the correct answer (5×10^{-1}) .

2. One possible mistake to avoid is the use of the SBR command in iterative calculations. After five repetitions, the return register is loaded and the interation aborts. Using the GTO command avoids this.

• But alas, there is no CMs Key for the HIR registers. To overcome this paradox, William W. Buechner, of Arlington, Massachusetts, uses the following subroutine that will clear these registers (Because this routine uses OP 00, which clears the alphanumeric print registers, this routine only works when the PC-100A/C is attached:

888	AR STA
000	25 CLR
001	69 DF
002	00 00
003	85 +
004	88 DMS
005	55 ×
006	88 DM8
007	95 =

Warning—Remember that when you clear the HIR's, you also upset any pending operations.

• Palmer O. Hanson, Jr. of Largo, Florida, has found the EE INV EE sequence does more than truncate the guard digits (See page C-1 of **Personal Programming**). It also changes the calculator state from a "dead entry" to a "live entry" state. To illustrate this effect, turn on the calculator, enter 12 into the display, press x² and see 144 displayed. Press key 1 and key 2 and see 12 in the display again. (The display changed from 144 to 12 because the calculator was in a "dead entry" state.) Press x² and again see 144 in the display. Now perform the sequence EE INV EE followed by pressing key 1 and key 2. The display will contain 144.12. This shows that the EE INV EE has changed the calculator's state into "live entry".

Precis

Editor's Note: This column presents new PPX programs now available. The abstracts here are from programs that the Analysts thought would be of special interest to members. If you have a need for a specific program, send a note to PPX. If an appropriate program has already been written, we will put the abstract in the next issue of the Exchange. Requests for programs not yet written will be placed in the "Programming Corner" column.

088015F Proration Per Diem

This program calculates the exact portion both buyer and seller are responsible for as of a specific closing or settlement date. It is designed to handle three annually due amounts. Real estate taxes can be entered either as assessment/mill format or total due. Closing date can be reentered to show "what-if" situations and allowances are made for leap years.

Robert G. Premecz, Allentown, PA 476 Steps

108004F Depreciation Schedules - Four Methods

Simultaneously lists one or more of the four methods of depreciation—straight line, double declining balance, sum of years' digits and units of production.

Michael Shanok, Hamden, CA

369 Steps, PC-100A

148010F Checkbook & Savings Account Balances

Maintains checkbook and savings account balances. Calculates and stores accumulated daily interest earned on savings. Posts interest to account.

William A. Donnelly, Louisville, KY 464 Steps, PC-100A, Mod 1

148011F Investment Versus Inflation

Calculates growth of investment and compares value of investment buying power with growth. Allows use of varying inflation rates for length of investment.

Ken Wehrkamp, Dayton, OH 290 Steps

198059F Salary Forecast With Raises

The program calculates annual salaries, by quarters, using the rate of pay—hourly or monthly salary—and the projected month of pay raises. Up to two pay raises per year can be calculated per individual.

Laurence V. Moore, Arvada, CO 469 Steps, PC-100A

208054F Linear Regression Lack-Of-Fit ANOVA

This program tests the lack-of-fit of a linear regression when replicates of the observed (Y)-values are available. The regression mean square and the residual mean square are calculated. The latter is partitioned into a lack-of-fit mean square and a pure error mean square. The linearity of the regression is tested by the ratio: Lack-of-fit mean square/pure error mean square.

Thomas Masurat, Morris Plains, NJ 472 Steps, PC-100A, Mod 10

228041F Duncan's Multiple Range Test

Duncan's multiple range test can be applied to treatment means with unequal subclass numbers. The studentized range values and error mean square are provided by the user. Significant differences are displayed.

Pamela H. Miles, Gainesville, FL 315 Steps

268037F F-Distribution and Inverse

The F-distribution probability function is obtained from a 2F1 hypergeometric series based on the incomplete beta function. The inverse search is based on Newton's method except that the formal expression for the first derivative is used instead of finite differences.

Theodore M. Bones, Princeton, WV 426 Steps

308082F Solution of 2 x 2 Complex Matrix

Solves for the two knowns in a 2×2 matrix with elements in the rectangular form. Solution is displayed and printed in rectangular form. Provision for solution of 3x3 determinant is also made.

Jens H. Buche, Mooroolbark, Australia 495 Steps, PC-100, Mod 1

328010F Extended Discrete Fourier Series

This program is similar to program 19 of the Math/Utilities Library. However, data packing and the hierarchy registers are used to increase the number of discrete function values that may be entered to 94 times the number of pseudo-registers per register.

Gregory L. Stark, Hicksville, NY 160 Steps, Mod 10

398189F Integer Space Vectors and Triangles

For any given space vector magnitude R this program calculates all possible unique integer sets of orthogonal components XYZ, and similarly for all integersided right triangles of hypotenuse H=R. For any arbitrary set of integers A, B, C, a separate routine generates an integer space vector set XYZR, determines the GCD of the set components and reduces the set to relatively prime cognates XYZR. Direction angles and their cosines are also calculated.

Wilbur J. Widmer, Storrs, CT 422 Steps

408047F Simulation of 3-Body Problem (Celestial Mechanics)

Traces the trajectories of three celestial bodies, all with non-negligible mass, under the influence of each other's gravitational pulls. An accurate 4th-order Runge-Kutta algorithm is used. The X- and Y- components of their velocities are the twelve state variables that are carried through this program. The user inputs initial conditions for these state variables, and gets the state variable values at the end of each time step. The time step can be varied if desired

Stephen Gold, Lafayette, LA 371 Steps

418088F Henderson-Hasselbalch Equation

Calculates either PH, PKA, base concentration, or acid concentration from the other three variables. And where

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applicable, hydrogen ion concentration and the acid equilibrium concentration are also calculated from the PH and the PKA respectively.

Ramond C. Copen, Normal, IL 303 Steps, PC-100A

458004F Population Size Estimation

Program uses Volly's stochastic model to estimate population from studies involving the recapture of marked individuals from a given population.

Douglas E. MacLean, Brooklyn, NY 477 Steps, PC-100A, Mod 10

498006F Hurricane Tracker

The program accepts date, time latitude, and longitude information on a hurricane as announced in weather broadcasts; computes its speed, heading and distance travelled. then projects its probable position at a selected time in the future.

H. C. Sanderson, Orlando, FL 479 Steps, Mod 10

508049F Oxyhemoglobin Dissociation Curve

The program provides a hemoglobin dissociation curve from the saturation and partial pressure of oxygen for both venous and arterial blood.

Jeanne M. Buch, Abilene, TX 350 Steps, PC-100A

548007F Scanning DNA for Restriction Enzyme Sites

A DNA sequence (up to 10 bases) recognized as a cleavage site by a particular restriction is entered. This program prints or displays the location of each cleavage site in the DNA. Multiple runs allow the scanning of any size DNA. Leonard I. Malkin, Troy, MI

122 Steps

598003F Radioimmundassay Curve and Calculations

The program averages counts from radioassays and computes the percent bound and amount of antigen from a programmed standard curve. The standard curve entered into the program as a series of (X, Y) data points. The program prints input and output data if the PC-100A printer is used.

Richard L. Kitchens, Dallas, TX 302 Steps

648084F A.C. Equivalent Circuits Conversions

Provides the user with a set of quick efficient routines of a delta to WYE or WYE to delta network and the conversion of a two element series circuit to its equivalent parallel counterpart and vice-versa. In addition, the program will convert frequency to omega and omega to frequency, convert either a capacitance or inductance to their respective reactances and back, as well as finding the inverse of any complex number.

William H. Beebe, Lilburn, GA 260 Steps

678008F Fusion-Fission Hybrid

This program will calculate overall efficiency with and without blanker multiplication of a fusion-fission hybrid together with the support ratio of the fusion driver and the cost ratio of the system compared to a breeder reactor. Paraschos Karahalios, Dracut, Mass.

480 Steps, PC-100A

748030F Infrared Target Irradiance Vs. Range Signa-

Values of radiant intensity and atmospheric extinction coefficient are entered and irradiance at any range may be calculated. Also, the Beer's Law irradiance-range curve may be found by least squares fit to experimental data. If the minimum detectable irradiance of an infrared search set is known, then target detection ranges can be predicted.

Wayne R. Houston, Ontario, Canada 223 Steps, PC-100A, Mod 1

788037F Interstellar Distances

Calculates the distance between any two stars, given their coordinates (distance, right ascension, and declination) relative to earth. Also calculates and stores distances of up to 8 closest neighbors to any given star, out of a field of up to 44 stars. Star coordinates can be stored on magnetic cards.

Steven Caine, Needham, MA 446 Steps

858003F Multiple Effect Evaporation

Calculates evaporations (lb/hr) and economy (lb H₂0/lb steam) when given feed liquor flow (gal/min), feed liquor solid %, product solid %, feed liquor BE (degrees), and steam flow (lb/hr).

Mike Hastings, Fayetteville, AR 77 Steps

908172F Character Set Print-Out

The program prints in table form the complete character set of the TI-59, with associated code, in a form the user may find more desirable than that given on page VI-7 of the Personal Programming Manual. The characters are printed in two columns, each with character on the left and its code on the right.

Craig, W. Green, Happy Valley, Australia 88 Steps, PC-100A

918182F Dungeon Master's Aid

Eliminates the need for endless dice rolling by generating non-player characters for use in Dungeons and Dragons. Race is chosen at random according to the percentages listed in the player guide (TSR Inc.) or can be chosen by user for use as a Random Monster, "Occupation" of character is chosen by user as per the guidelines of the rules. Michael A. Henry, St. Peters, MO 394 Steps, PC-100A

918198F Las Vegas Blackiack

Follows professional gambling rules and payoffs. Players can split pairs "Double Down" on any two cards and "In-

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surance" is available when the dealer has an ace showing. A portable game, no printer needed.
Lem Matteson, Kansas City, MO
781 Steps

938034F Vortac Navigation With Winds

Given vortac latitude, longitude, and elevation plus magnetic variation, aircraft altitude, range and bearing, program computes aircraft latitude and longitude. Given a second fix, respective fix times, aircraft heading, indicated temperature, and recovery coefficient, program also computes groundspeed, wind direction, and velocity. Program can also determine great circle range and wind bearing between any two known positions.

Paul D. Sperry, Boulder, CO 464 Steps, Mod 06

948020F Great Circle Marine Navigation

Computes the initial bearing along a great circle track given the starting point and destination, and the destination latitude and longitude given the starting point, bearing and distance.

Gary M. Davis, Watford, England 470 Steps, PC-100A, Mod 05

988039F Sailplane Competition - Pentalateral Task

Calculates great circle distance for 5 legs of a closed course pentalateral. Calculates scores for all flights for the task, both finishers and non-finishers. Adjusts scores in case less than 60% complete task or if there are no finishers. Sort and print scores in descending order, labeling each score with contestant's competition ID number.

Robert V. McNeil, Rockwall, TX 793 Steps, PC-100

PROGRAMMING CORNER

Are there programs that you would like to see made available through PPX? Send us a description of your programming needs. PPX is not staffed to do custom programming, but we are offering incentives to those PPX members who write programs to fill Programming Corner requests. See the May/June 1980 "PPX Exchange" for details.

Two PPX members have already taken advantage of this offer. Tom Chambers ("Random Number/Sample Generator," PPX #268039) and Gregory Stark ("Two Constant Weibull Distribution," PPX #268040) have each received a free Solid State Software™ module of their choice.

We will be accepting submissions to fill the following requests until October 31, 1980:

- A program for Slope Stability Analysis by the Swedish Slip Circle Method with provisions for groundwater, horizontal seismic forces, and critical circle coordinates.
- A program to test the fit of entered data to different distributions (normal, exponential, etc.) and determine degree of fit for each.
- A three dimensional Lunarlander Game in which one must pilot his spaceship from orbit to a soft landing at a specified landing site without exhausting his limited fuel supply.

ADDRESS CHANGES

In order to ensure uninterrupted service, please submit address changes to PPX at lease six weeks prior to the effective date of the change. Send your name, membership number, old and new addresses to:

PPX P.O. Box 53 Lubbock, TX 79408

TI-59 Programming Seminar

A Texas Instruments Programming Seminar may be coming to your area. These seminars will provide beginning and intermediate programming training on the TI-59. Classes consist of two 8-hour days of hands-on training that begin at 8:30 A.M. and last until 4:30 P.M. A luncheon will be served daily. You must provide your own TI-59 and it is highly recommended that you also bring your PC-100 A/C Printer. As a service to our members, we are including the schedule below for dates and locations.

To attend, send your name, mailing address, and telephone number to: TI-59 Seminar; P.O. Box *0508, M/S 5873; Lubbock, Texas, 79408. Also include your check or money order for the tuition fee of \$150 per person (purchase orders are not accepted). Those members that want to attend need to respond as quickly as possible as there is a limit of 50 participants per class.

SEMINAR DATES LOCATION August 7/8 Dallas, TX

August	28/29	Westbury, Long Island
Sept.	17/18	Philadelphia, PA
Sept.	22/23	Pittsburgh, PA
October	14/15	Costa Mesa, CA
October	20/21	Phoenix, AZ
Nov.	13/14	Detroit, MI
Nov.	17/18	Cleveland, OH
Dec.	4/5	Orlando, FL
Dec.	11/12	Burlingame, CA