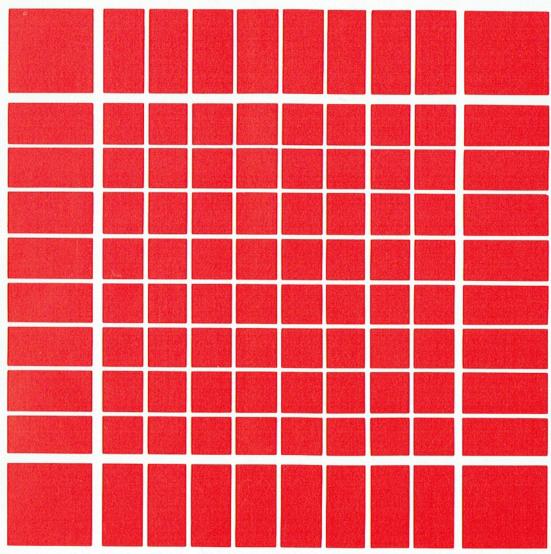
Users'Library



Contributor's Contributor's Guide for the HP.41C HP.67 and HP.97



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CONTRIBUTOR'S GUIDE

INTRODUCTION

The purpose of the Users' Library is to provide a means by which HP calculator users can obtain application programs meeting common needs. Through the Library, these programs are made available to all HP calculator users for a nominal handling charge. Active participation on your part, as a contributor, is the key to providing needed and useful programs. We urge you to document and submit those programs you feel might be of value to others.

In appreciation for any accepted program, you may select four free programs of your choice, compliments of the Library. If you elect to receive no programs at the time of submission, you will be issued a coupon for the 4 programs. All four programs must be selected at the same time. In addition, you will receive full author credit in the "Catalog of Contributed Programs", a periodic publication containing abstracts of Library programs. And the Library will reimburse blank cards equivalent to the number of program/data cards submitted with your program.

Documenting a Program

This section explains the proper documentation procedures. Two sets of standard documentation forms are included in this package. The complete program submittal package consists of:

- 1. Program Submittal
- 2. Program Description I
- 3. Program Description II
- 4. User Instructions
- 5. Program Listing(s)
- 6. Registers, Status, Flags, Assignments
- 7. Keyboard/Card Labeling (optional)
- 8. Recorded Magnetic Card(s)

When submitted, the above documentation package becomes the property of the Library and is retained by HP for testing and review purposes. The Library encourages the submission of program and data cards only. Status information should be included programmatically, whenever possible.

In order to make the Library's services available to users at the lowest possible cost, program orders are filled by photocopying forms 2 through 7 above. For this reason, it is important that:

- 1. All documentation be typed or legibly printed (not handwritten) in black or blue-black ink. (See instructions on the Program Listing Form on using the paper tape print-out from the HP-97 or HP-82143A.) The Library retains the right to determine what is legible and what is not. The Library will reject a program if in our opinion it is not readable or not reproducible.
- 2. You submit your programs on original forms. Documentation on photocopies of the forms or on other forms is not acceptable and will be rejected. (Extra copies of forms are available upon request from the Library.)

Please read carefully through the completed sample forms shown in this section for further detailed instructions on documenting your program.

Program Acceptance

The Library's Staff reviews all submittals, checking for duplication of existing programs from HP Application Pacs and other Library programs, clear and complete documentation in English, legibility, and ability to perform sample problem(s). Inasmuch as your fellow calculator owners expect a significant program for their money, the management of the Library reserves the right to reject programs which, in its opinion, do not represent a significant addition or are not otherwise appropriate to the Library. If a program is not accepted into the Library, the complete submittal package is returned with a letter of explanation. If accepted, we notify you by letter and give you the assigned Library number for your program. At this time, you will also receive the bonus you have selected and your magnetic cards.

Since the Library may reject a program because it duplicates a program already in the Library, it is important to state in the abstract unique features of your program. A short program may be rejected as insignificant unless it is a useful subroutine. Its usefulness should be stated in the abstract.

Library Maintenance Policies

The Library contains two types of programs: Hewlett-Packard supported and user contributed. Hewlett-Packard supported programs are officially developed and tested by the Hewlett-Packard Company which assumes responsibility for maintaining them.

User contributed programs are submitted by individual users. The wide range of application areas for which programs may be written and the technical knowledge demanded by them make it impractical for the Library to support these programs. We, therefore, ask each contributor's assistance. We request that each contributor's name and address be filled out on Program Description I to allow direct user-tocontributor contact for answering questions on the program. With every program order, the Library distributes a "Program Comment" form on which users can directly report to the Library any logic or documentation errors, suggest possible program modifications, or otherwise remark on a program's general performance. In the event an error is reported, the program is temporarily placed on "unavailable" status. The Library will then notify the contributor and request his assistance in resolving it. No response to a program error notification may result in the program's removal from the Library. If a user suggests possible changes to a program which might clarify documentation, add more versatility, improve efficiency, or otherwise enhance its ability to perform without altering its intended function, the Library will review and then also forward these suggestions. Suggestions may be made by any user, but the contributor must agree to and submit the official change to the Library. To do so, only those documentation forms and/or magnetic card(s) affected by the revision need be resubmitted along with a new Program Submittal Form.

Mailing Procedures

The Library can provide a valuable source of inexpensive programs for you as an HP calculator user. Help contribute to its effectiveness by documenting those programs you consider of interest to others and forwarding them to:

HP Users' Library
HEWLETT-PACKARD
1000 N.E. Circle Blvd.
Corvallis, OR 97330

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PROGRAM SUBMITTAL

Note: This page is **not** numbered. This form is retained by the Library and used to input catalog information into a computer. It is not shipped with program orders and is not to be numbered with Program pages. PLEASE TYPE, IF POSSIBLE.

1 New Program

Check this box if submittal is new to the Library.

2 Revision to Program Number

Check this box if submittal is a revision to an existing Library program. Write in Library program number being revised (five digits followed by a letter.) Note: Only the original author can revise a program.

3 Model Number

Check the box that designates the calculator from which the listing was generated.

4 Program Title

Enter program title. Abbreviate where necessary so that title does not exceed the spaces provided.

5 Number of Steps/Lines

Enter the total number of program steps for 67/97, or number of lines for 41C used on the Program Listing(s) form.

6 Category Number

Consult the Application Category Table in this guide and identify the most appropriate category into which your program fits. Classify as specifically as possible. Write in the respective category number here.

7 Category Name

Enter the category name corresponding to the number shown above.

8 Abstract

Provide a brief description of your program. Do not exceed the 50-word maximum. If your program is similar to one already in the Library, highlight the unique features of yours without referring directly to the other program.

Since your abstract will be printed by a computer using a standard character set, no lower case letters, subscripts, or superscripts can be used and special characters are limited to those shown below:

$$# \$ @ * () + = - / \& % < > ! : ; " ? . ,$$

Do not use symbols in your abstract. Use the following examples as quidelines:

Symbol I	How to Write		How to Write	Symbol	How to Write	Symbol I	low to Write
Xª	X**A	√x	X** 1/N	x÷y	X/Y	R ₂	R2
$\sqrt{2}$	X ** 1/2	x·y	X*Y	ex	EXP(X)	X,	XI

9 Necessary Accessories

List any extra hardware or software on a basic machine to run your program. For example, list the necessary accessories for the 41C (number of memory modules, printer, card reader, or Application module) and whether another Library program is required (67, 97, or 41C).

10 Contributor's Name and Address

Write in your name, mailing address, and phone number (where you can be reached during the day). Try to be consistent from submittal to submittal or your programs will not be listed together in the Author Index.

11 Acceptance Choice

Check the option you wish to receive if your program is accepted. List the Users Library program numbers you wish to receive in the spaces provided. Program numbers are listed in the "Catalog of Contributed Programs" available from the Library for a fee. A single coupon for four programs of your choice will be sent if you make no selection at the time of submittal. All programs must be selected at *one* time; a contributor is not allowed partial credit.

12 Submittal Checklist

Use this checklist to make sure you have completed each of the necessary items for program submittal. Mark the box to the left of each listed item before mailing. Recorded magnetic card(s) must be included for your program to be reviewed. The Library encourages the submission of program and data cards only. Therefore, where possible, all status information should be included as part of the program.

13 Acknowledgement and Agreement

Please read this statement carefully. It must be signed and dated before a program can be considered as a contribution to the Library.

Programs submitted to the Users' Library may be used by HP in Solutions Books and/or as applications programs on the current or future machines.

PROGRAM SUBMITTAL

(1) THE STATE OF T		(2)	☐ Revision to	Program		100
New Program		\circ		Frogram	Laine Land Land Land	William Assessment
3 Model No.	□ 67	□ 97	⊠ 41C			Page Mass
4 Program Title	FIINA	ICIIALI C	C A L C U	L A T I O	N S	
5 No. of Steps/Lines	2 0 1	6 Category	No.	0 0 3		goog endi Nelland D. E.
	nts are at the en	d of the compoun	a variety of p	treat roof to	NALYSIS	-
(10) Name John D	e Ferres Cons	nimo alteración me			a colore innelihbe	st arold
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4000 1	E Circle Blvd.			14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************	
Address			State	OR	Zin Code	97330
Phone Number (5			State		Zip Code	
11) If my program is 12) Submittal Checkli Program Submittal Program Description	* No partia	FOUR PROGRAM	iven. Select a st below to in cription II	Il four progra sure submitt ⊠ Progra	JR PROGRAMS *	gram documentation. Registers, Status Keyboard, Card Labeling (optional)

ACKNOWLEDGMENT AND AGREEMENT

To the best of my knowledge, I have the right to contribute this program material without breaching any obligation concerning nondisclosure of proprietary or confidential information of other persons or organizations. I am contributing this program material on a nonconfidential nonobigatory basis to Hewlett-Packard Company ("HP") for inclusion in its program library, and I agree that HP may use, duplicate, modify, publish, and sell the program material, and authorize others to do so without obligation or liability of any kind. HP may publish my name and address, as the contributor, to facilitate user inquiries pertaining to this program material.

Signature

Date

PROGRAM DESCRIPTION I

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

1 Page Number

Beginning with this form, sequentially number the pages of your program documentation package.

2 Program Title

Enter program title exactly as shown on the Program Submittal form.

3 Contributor's Name and Address

Enter your name and mailing address.

4 Program Description, Equations, Variables

Provide a detailed description of your program. Since the abstract given on the Program Submittal form is not shipped with program orders, you may wish to duplicate all or part of it here. Make sure you include such information as program application, basic logic used, equations used, and any special considerations which should be pointed out, e.g., is program linked to another program.

5 Necessary Accessories (41C only)

List any peripherals (plug-ins) required by your program, e.g., a printer, card reader, memory module or application module.

6 Operating Limits and Warnings

Note any limits to your program's operating ability or accuracy. Also, warn users of any problems that may be encountered during program usage.

7 Reference(s)

Direct the user to helpful reference material, e.g., texts from which mathematical formulas of algorithms were obtained. List references in bibliographic format, i.e., name of author, title of publication, edition, volume, page, publisher and copyright year.

Note: If additional space is needed, use the Program Continuation Form. Contact the Library for these. Or use a plain white piece of bond typing paper with "Program Continuation Form" typed at the top.

PROGRAM DESCRIPTION I ①

1 Page

2)	<u>van rend and a sub as mant nd bho dae</u> van "Llackee" beer k. 18 3013 5165	North States and American States of the Stat
Program Title FINANCIAL CALCU	LATIONS	16/1/49/1/5/24 3
Contributor's Name John Doe		The complete rate of the second secon
Address 1000 NE Circle Blvd.	se na sunara e nese e na jugaj sal	TO SERVICE THE SERVICE OF THE SERVIC
City Corvallis	StateOR	Zip Code97330
4 Program Description, Equations, Varia	ablesThis program can be used to so	lve a variety of problems involving money, time
and interest. The following variables ca	n be inputs or outputs:	
PV = present value: the amount lo	paned, borrowed, invested, etc.	
I = periodic interest rate as a perc	ent	
N = number of periods		
PMT = periodic payment amount	: the amount paid on a loan or earned o	on an investment
FV = future value: the amount re	emaining, accumulated, saved, etc.	
Equation used:		
$0 = PV + \frac{PMT}{i} [1 - (1 + i)^{-N}] + I$	FV (1 + i) ^{-N}	
where i = I/100		
5 Necessary Accessories none		
	Payments are assumed to occur at the <i>en</i>	ad of the compounding period.
Reference(s) Grant, E.L. and Ireso	n, W.G., Principles of Engineering Econo	omy, Fourth Edition, The Ronald Press Company,
New York, 1964.		

This program has been verified only with respect to the numerical example given in *Program Description II*. User accepts and uses this program material AT HIS OWN RISK, in reliance solely upon his own inspection of the program material and without reliance upon any representation or description concerning the program material.

NEITHER HP NOR THE CONTRIBUTOR MAKES ANY EXPRESS OR IMPLIED WARRANTY OF ANY KIND WITH REGARD TO THIS PROGRAM MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NEITHER HP NOR THE CONTRIBUTOR SHALL BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE FURNISHING, USE OR PERFORMANCE OF THIS PROGRAM MATERIAL.

CONTINUATION PAGE

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

1 Page Number

Continue sequential numbering of program pages.

2 Type of Continuation Page

Type or neatly print the *name* of the page you wish to continue. In our example, we have continued the Program Description I page.

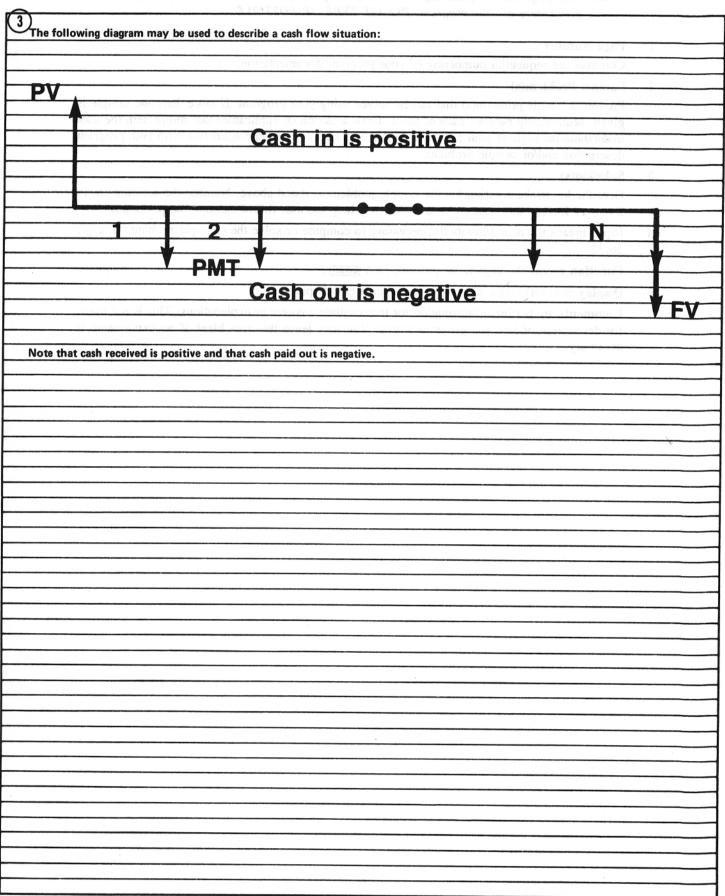
3 Data

Use the lines in an effective manner for your information. If a plain page would work better for you, use a plain piece of white bond typing paper. Please avoid engineering paper, binder paper or colored paper as these types do not photocopy well.

² PROGRAM DESCRIPTION I

1) Page 2 of 8

(CONTINUATION PAGE)



PROGRAM DESCRIPTION II

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

1 Page Number

Continue the sequential numbering of your program documentation.

2 Sample Problem(s)

Provide a sample problem(s) that can be solved using your program. If more than one sample is given, sequentially number each of them. Draw a sketch (if applicable) that might help the user understand the logic of your program. This sketch may be used in conjunction with your program description and/or sample problem.

3 Solution(s)

Give the keystroke solution for the sample problem(s) stated above. Number the solutions as in 2 above. Include intermediate results that may help the user follow through the problem(s).

- 4 Input means the actual number(s) necessary to compute or solve the example problem(s), e.g., 26.32.
- 5 Function means the keys to be pressed, i.e., ENTER.
- 6 Display is exactly what appears in the calculator's display.
- 7 Comments are pertinent information for intermediate answers or explanations. This is not space for description of how the program works. You may leave this area blank if no explanation is necessary.

(2)

PROGRAM DESCRIPTION II

1

Page 3 of 8

Sample Problem (Sketch if Desired)

- 1. A couple purchases a \$50,000 house, borrowing \$40,000 at 8.5% for 30 years less one month. What is their monthly payment?
- 2. The couple in Example 1 sold their house 18 months later, netting \$25,000. At what interest rate would they have had to invest their original \$10,000 and \$207.75 monthly payments to obtain \$25,000?

3 SOLUTION:

1.

2.

4 Input	5 Function	6 Display	7 Comments
	[USER]		Set user mode
	[XEQ] SIZE 010		Minimum size
	[FIX] 2		Set display
	[A]	N, I, PV, PMT, FV	Clear financial registers
40000	[C]	40,000.00	Enter PV
8.5	[ENTER †]	z decado ados estres estado a	ed o est select anguar a sus as selan.
12	[÷] [B]	0.71	Periodic interest rate
30	[ENTER↑]	a W squap d so so so so so so	
12	[X]		Tools (No. 1) and the second of the second o
1	[-] [A]	359.00	Total # of payments
	[D]	PMT = \$-307.75	Periodic payment
18	[A]	18.00	Months
25000	[E]	25,000.00	Future value
10000	[CHS] [C]	-10,000.00	Initial investment
	[B]	I = 3.21%	Monthly interest rate
12	[X]	38.51	Annual yield

USER INSTRUCTIONS

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

This form is the only part of your program documentation the user will continually refer to when running your program. For this reason, be sure that all information given on this form is complete and concise.

1 Page Number

Continue the sequential numbering of your program documentation.

2 Size (41C only)

Indicate the number of data registers required by your program.

3 Step

Use the following rules-of-thumb for numbering the operational steps:

- A. Number and list each step in order of execution.
- B. If the user has a choice in what he does, number these choices with the same step number and separate these operations with the word "or".
- C. If an instruction is "optional", or not an essential step to perform, it does not have to be numbered.

4 Instructions

Briefly describe the action required in each step. Use the following rules-of-thumb when completing this portion.

- A. Step 1 should always instruct the user to "Enter Program" or "Load Side _____ of the card".
- B. If the user must "initialize" the calculator to run the program, e.g., clear the stack, clear the registers, store constants, etc., Step 2 should then instruct the user how to do so.
- C. Include helpful explanatory notes, e.g., how to correct erroneous inputs, which step to return to for a new case, etc. (See sample).

5 Input

Write in the variable names for input data and the appropriate units (when applicable) in which this data should be entered.

6 Function

Show which keys should be pressed to execute each step. Write key symbols exactly as they appear on the calculator keyboard.

7 Display

Write in variable names for output data and the appropriate units (when applicable) in which this data appears.

USER INSTRUCTIONS

Page 4 of 8

TEP	INSTRUCTIONS	INPUT	6 FUNCTION	1 DISPLAY
1.	Enter the program, check status, and set USER mode.			laD S
2.	To clear the financial registers	Security and re	[A]	N, I, PV, PMT, FV
3.	Store inputs as desired:	dom yenî ye. 40		38.1
	• number of periods	N	[A]	(9 ³³ N
	• periodic interest rate (%)	to esta pota e	(B)	5 5 1
	• present value of investment	PV*	[c]	PV
	periodic payment	PMT*	[D]	PMT
	future value of investment	FV*	[E] mmsm	FV
4.	Compute desired output:		naskop er med en ikope Hannan yandan and fi	e Colore
	number of periods	ON BOX	[A]	N = (N)
,	periodic interest rate		[B]	I = (I) %
	present value of investment		[C]	PV = \$(PV)*
	periodic payment	majo po grados majora limpialis	[D]	PMT = \$(PMT)*
	future value of investment		(E)	FV = \$(FV)*
5.	Return to step 4 to re-compute any of the five values or	Admob a snek	Ald S. assess should	2911
	return to step 3 to change any values.		10 00 00 00 00 00 00 00 00 00 00 00 00 0	
			1 geil tai	
	*Positive for cash received; negative for cash paid out.	- (<u>a.c.</u> -) (engo n'io emakh Larua	
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PROGRAM LISTING

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

This form shows the program steps required to key your program into memory.

1 Page Number

Continue the sequential numbering of your program documentation.

2 Calculator Model Numbering

Check the box that designates the calculator from which the listing was generated.

3 Step/Line

List each step number (67/97) or line number (41C).

4 Key Entry

List the instruction mnemonic or abbreviation for that step number (e.g., 10^x , STO + 3, SIN, etc.). Be consistent with the Owner's Handbook. Owners with printers may tape or glue a printed listing in this area.*

5 Key Code (67/97 Only)

Enter the keycode corresponding to 4 above. Always write the code directly across from the instruction to which it pertains.

6 Comments

To assist the user in understanding operational steps or routines within your program, provide enough explanatory comments to indicate what is taking place within the program. This is essential information since whoever buys your program may want to modify it for their needs. The lack of comments may cause your program to be rejected by the Library.

*WARNING: Be sure to keep tape off of the printed characters. Remember that this documentation is photocopied and a clear copy cannot be made through tape. Chemicals in adhesives used on the thermal listing cause characters on the listing to fade. 97 owners can get 224 steps on two pages by pasting 56 steps on each side and extending a bit beyond the printed lines. It is okay to cover the black lines with the printout. The Library recommends the use of rubber cement or transparent tape to secure the listings to the Program Listing form.

HP-82143A owners should print a double wide listing. To obtain a double wide listing:

- 1. Turn off the 41C.
- 2. Plug the printer in.
- 3. Turn on both the printer and the 41C.
- 4. Clear flag 13.
- 5. Set flag 12.
- 6. XEQ ALPHA PRP ALPHA
- 7. ALPHA (Name of program) ALPHA optional

Be sure the print intensity is dark enough to produce a clear photocopy.

PROGRAM LISTING

Page 5 of 8

(2) _{□ 67}	□ 97					S scott
3 STEI	-/ 4 5 _{KEY COL}		STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
	01+LBL A	Store N.	Γ	51 ABS		Newton's method.
	02 STO 01	If new data, then stop,		52 RCL	04	# ##
	03 FS?C 22	else calculate new N.		53 RCL	01	20 4 CO (100 C) 100 C) 100 C)
	04 RTN			54 *		L-04
_	05 RCL 04			55 RCL	03	
	06 RCL 09	apples desirable exception		56 +	semboos sm	euro con el Co
	07 /			57 ABS	ordi tehelid se	and a special control of
	08 STO 00	The second secon		58 -		Na Succession N
	09 RCL 05	tion and the second contracts and	1000	59 RCL	04	0.8 No. 20 No. 2
	10 -			60 RCL	01	A. C. Rec. & C.
	11 RCL 03		A Landau es	61 *	selvojedna tistori	
	12 RCL 00	Table Control of the Service of the	ente es	62 RCL	05	29 x80 x1
	13 +			63 +	400000000000000000000000000000000000000	1 0.890.3 0598
	14 /			64 ABS		
	15 LN			65 RCL	03	
	16 RCL 09			66 ABS		
	17 LN1+X			67 -		
	18 /	-		68 *		
-	19 STO 01			69 ENTE	ERT -	· · · · · · · · · · · · · · · · · · ·
—	20 "N="			70 ABS	7,	
\vdash	21 ARCL X			71 /	_	
-	22 AVIEW	Display new N.		72 1 E-	-9	
_	23 RTN		_	73 *		
-	24◆LBL B		_	74 STO	09 —	
_	25 STO 02			75+LBL	Ø6	
_	26 1 E2	Store I and some functions		76 XEQ	08 —	Begin Loop.
-	27 /	of I.		77 RCL	04 —	
-	28 STO 09			78 *		
-	29 1			79 RCL	ø3 <u> </u>	
_	30 +			80 +	OF	
_	31 STO 07			81 RCL	05 —	
-	32 RCL 02			82 RCL	Ø8	
-	33 FS?C 22			83 *		
-	34 RTN	If new data, then stop,		84 + 85 RCL	øs <u> </u>	
- -	35 RCL 04	else if PMT = 0, then com-				
-	36 X≠0?	pute I by simple formula.		86 RCL	07	
-	37 GTO 01			87 / 88 RCL	01	
—	38 RCL 05			89 *		
\vdash	39 RCL 03			90 STO	Ø6 <u> </u>	
—	40 /			91 1		
-	41 CHS			92 RCL	ø8 <u> </u>	
-	42 RCL 01			93 -		
-	43 1/X			94 RCL	ø9 <u> </u>	
\vdash	44 Y1X			95 /		1
-	45 1		-	96 -	-	1
\vdash	46 -		\vdash	97 RCL	04	1
\vdash	47 STO 09			98 RCL	ø9 <u> </u>	
—	48 GTO 00 49+LBL 01		_	99 /		1
_	49+LBL 01 50 RCL 05	Else compute new I by		100 *	-	1
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PROGRAM LISTING (second page)

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

This form continues the listing of program steps begun on the previous Program Listing page. See previous instructions for Key Entry, Key Code, and Comments. Use as many of these pages as necessary to document the steps/lines of your program.

1 Page Number

Continue the sequential numbering of your program documentation.

2 Calculator Model Number

Check the box that designates the calculator from which the listing was generated.

3 Steps/Lines

Continue numbering the steps/lines sequentially. For step 101, just add a 1 in front of the 01. Notice in our example that we pasted the last two steps on the second Program Listing page, rather than starting a third page.

PROGRAM LISTING

1 Page 6 of 8

) STE LINI	P/ E KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY	ENTRY	KEY ((67/97	CODE only)	COMMENTS
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_		06 <u> </u>		<u> </u>	153			2010	00 _000 0 0
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REGISTERS, STATUS, FLAGS, ASSIGNMENTS

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

1 Page Number

Continue the sequential numbering of your program documentation.

2 Data Registers

Describe the contents of the data registers with either a numeric value or a written description.

Example: Reg 00 100

Reg 01 12

Reg 02 PMT (to imply "payment")

3 Status

Size (41C only)—Number of registers for data storage.

Tot. Reg. (41C only) Total number of registers used for data and program.

To compute total registers used, N:

	Instruction:	Input:	Function:	Display:
1.	Set the correct data register size		XEQ ALPHA SIZE ALPHA nnn	
2.	Pack program memory		XEQ ALPHA PACK ALPHA	PACKING
3.	Move the program pointer to line 000		■ GTO • 000	
4.	Switch to PRGM mode and remember the value R.		PRGM	00 REG R
5.	Switch to RUN mode		PRGM	
6.	Key in the number of Memory			
	Modules + 1	M+1	ENTER+	
7.	Multiply by 64	64	×	
8.	Subtract 1	1		
9.	Subtract R	R	-	N

User Mode (41C)—Indicate ON or OFF.

Display Mode—Set the appropriate display mode.

ENG 0-9

FIX 0-9 See the Owner's Handbook

SCI 0-9

Trig Mode Selector—Check degrees, radians or grads.

4 Flags

Write the number of any flags used, 0-3 (67/97) or 00-29 (41C).

Init S/C

Indicate with an "S" for set or a "C" for clear the initial status of the flags at the beginning of your program.

Set Indicates

Write a description of what the set flag indicates.

Clear Indicates

Write a description of what the clear flag indicates.

5 Assignments (41C)

Function: rename the key, e.g., BEEP

Key: write key name that is being reassigned, e.g., LN

REGISTERS, STATUS, FLAGS, ASSIGNMENTS

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KEYBOARD/CARD LABELING

Note: This page will be photocopied and sent as part of the documentation package to purchasers of your program. PLEASE TYPE, IF POSSIBLE.

1 Page Number

Continue the sequential numbering of your program documentation.

2 Keyboard (41C only)

Label any key reassignments (shifted functions above the key).

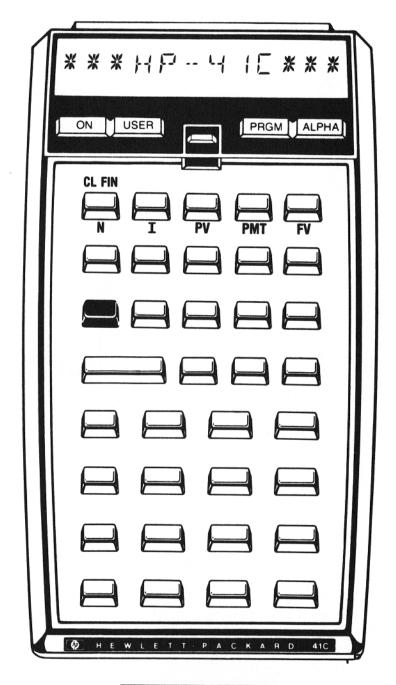
3 System Configuration (41C only)

List any extra memory modules or peripherals required, e.g., printer.

4 Card

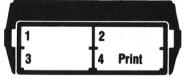
Label the pictured card exactly as you have your recorded magnetic card included with your submittal. Be sure to protect your recorded cards by clipping the corners as shown in the diagram.

KEYBOARD CARD LABELING

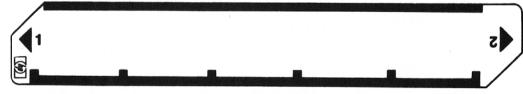


⁽²⁾KEYBOARD





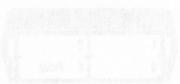
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KEYBOARD CARD LABELING



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CONFIGURATION





APPLICATION CATEGORY TABLE AND DOCUMENTATION FORMS

APPLICATION CATEGORY TABLE

700 MEDICAL ARTS & SCIENCES (GENERAL)	SEE ALSO: NATURAL SCIENCES APPLIED SCIENCES	MEDICINE (C		715 Clinical Laboratory 716 Radioimmunoassay		740 VETERINARIAN SCIENCES	800 HOME COMPUTING (GENERAL)		820 GAMES (GENERAL) 821 Roard & Table Games		823 Number & Word Games 830 PERSONAL FINANCES	SEE ALSO:	840 HOBBIES	900 OTHER		:	Ž	921 Ship Stability 922 Yachting		940 DATE/CALENDAR 950 TIME		
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Signature ______ Date _____

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PROGRAM DESCRIPTION I

Page of Program Title Contributor's Name Address State/Country..... City Zip Code ---Program Description, Equations, Variables Necessary Accessories. Operating Limits and Warnings... Reference(s)

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PROGRAM DESCRIPTION II

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Sample Problem (Sketch if Desired)	

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USER INSTRUCTIONS

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PROGRAM LISTING

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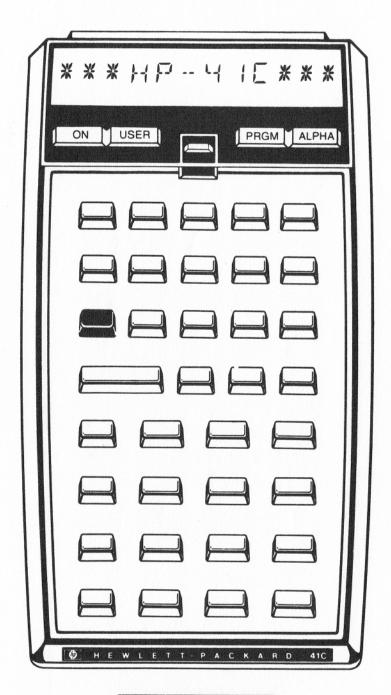
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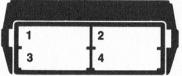
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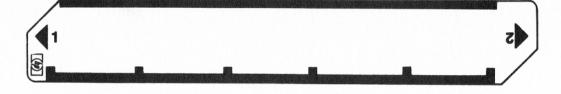


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## **PROGRAM SUBMITTAL**

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To the best of my knowledge, I have the right to contribute this program material without breaching any obligation concerning nondisclosure of proprietary or confidential information of other persons or organizations. I am contributing this program material on a nonconfidential nonobligatory basis to Hewlett-Packard Company ("HP") for inclusion in its program library, and I agree that HP may use, duplicate, modify, publish, and sell the program material, and authorize others to do so without obligation or liability of any kind. HP may publish my name and address, as the contributor, to facilitate user inquiries pertaining to this program material.

Signature .....

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### PROGRAM DESCRIPTION I

of Program Title ..... Contributor's Name Address ..... State/Country..... City ____ Zip Code Program Description, Equations, Variables **Necessary Accessories... Operating Limits and Warnings** Reference(s) .....

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## PROGRAM DESCRIPTION II

Sample Problem (Sketch if Desired)

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## **USER INSTRUCTIONS**

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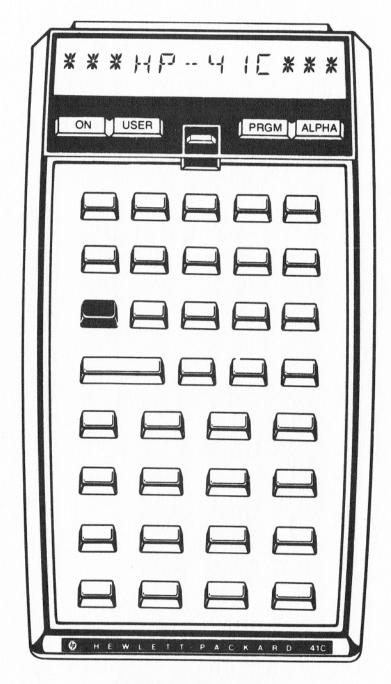
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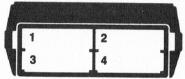
CLTAPS			
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## KEYBOARD CARD LABELING

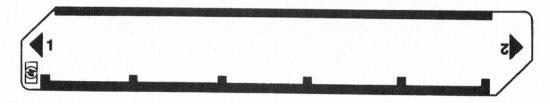


**KEYBOARD** 





CARD



## KEYBOARD CARD LABELING



CONTRACTOR

MATEYS MONARUDINAC

#### (CONTINUATION PAGE)

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