03319 PROGRAM SUBMITTAL Г

🖄 New Program	<u> </u>		Revision to Progra	m		
Model No.	67	□ 97 🖄	41			
Program Title	Memo and	Expense Not	e Pad			
No. Lines Primary	65 Bytes Personal		gory No. D 55((Primar) /)		
Category Name Abstract-75 Word	МТ		11 program fo	c keep	oing short memos, up to	
					uses by catagory, such as	
					an be accumulated by	
catagory or	entered in	to new catag	ories at any i	ime.	Each item can be retrieved	
by indexing	on the fir	st part of t	ne item name (or all	items can be reviewed.	
All data is	stored in	extended mem	ory.			
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Necessary Acces	Ext sories:	ended Functio	ons/Memory Mod	lule	5/30/07	
	ry Goodman		£ 00 9:	4		
Company (If Applica Address BO	^{ые)} х 259N	Route 4				
	edericksbu	rg	State/Province	/irgin	uia Postal Code 22405	
-	Phone Number (703) 775-3260 Country U.S.A.					
Hewlett Packard D	ealer Edu	calc				
Acceptance Ch	oice: 🗆 F	OUR \$6.00 PROGR	AMS 🖄 ONE PC	INT CEF	RTIFICATE	
Please use the ch	ecklist below 1	to insure submitte	l of all proper prog	ram doo	cuments	
SIGNED PROG		🕱 Program D	escription II 🛛 🙀	Program	n Listing(s) 🛛 🗷 Registers, Status	
🖾 Program Descrij	ption I	🛛 User Instru	ctions 🛛		STORAGE Card Labeling mag. card (optional)	
organizations. I am contributing this	program material on a n	this program material without on confidential nonobligatory t	asis to Hewlett-Packard Comp	cerning nonc any ("HP") to	disclosure of proprietary or confidential information of other persons or ir inclusion in its program library, and I agree that HP may use, duplicate sh my name and address, as the contributor, to facilitate user inquiries	
	Mary /	Hoodman			Date 3/24/85	
HP USE ONLY	No. Pages:		Mag Cards Cassette :		Price :	

HP USE ONLY

PROGRAM SUBMITTAL

New Program
Model No. 🗆 67 🖾 97 🖄 41
Program Title Memo and Expense Note Pad
No. Lines ⁶⁵ Bytes 127 Category No. D550 (Primary Category Name Personal Finance
Abstract-75 Word Maximum MEMO is a useful program for keeping short memos, up to
24 characters long, and for keeping a record of expenses by catagory, such as
food, hotel, gas, etc. during a trip. Expenditures can be accumulated by
catagory or entered into new catagories at any time. Each item can be retrieved
by indexing on the first part of the item name or all items can be reviewed.
All data is stored in extended memory.
Necessary Accessories: Extended Functions/Memory Module Name Gary Goodman Company Address Box 259N Route 4 City Fredericksburg State/Province Virginia PostalCode 22405
Phone Number (703) 775-3260 Country U.S.A. Hewlett Packard Dealer Educalc
Acceptance Choice:
Please use the checklist below to insure submittal of all proper program documents 図 SIGNED PROGRAM 및 Program Description II 및 Program Listing(s) 図 Registers, Status SUBMITTAL PAGE
⊠ Program Description I ⊠ User Instructions ⊠ MASS STORAGE □ Keyboard, Card Labeling MEDIA mag.card (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 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 Date

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	No.	Mag Cards	
HP USE ONLY	Pages:	Cassette:	Price :

Program Title:Memo and Expense Note PadContributor's Name:Gary GoodmanAddress:Box 259N Route 4City:FredericksburgState:VirginiaZip Code:22405

Program Description:

MEMO is a useful program for keeping short memos, up to 24 characters long, and for keeping a record of expenses by catagory, such as food, hotel, gas, etc. during a trip. Expenditures can be accumulated by catagory or entered into new catagories at any time. Each item can be retrieved by indexing on the first part of the item name or all items can be reviewed.

The program uses an ASCII file named MEMO, in extended memory to store the memos and expense items. You must create this file before first using the MEMO program.

When the program is run, you will be prompted by ITEM?. You may: a) enter a new memo, b) retrieve an old memo by entering the first few characters which uniquely define it, or c) you may just press [R/S]. If you enter a new memo, you will be prompted for AMOUNT?. A dollar value entered in response will make this entry an expense catagory; no entry except [R/S] makes it an ordinary memo. If the memo already exists, it will be displayed. If it is an expense memo, it will be displayed with the accumulated expenses, and then after a second, the user will be prompted with AMOUNT? to add to the catagory. If you press [R/S] in response to the ITEM? prompt, the first memo in the file will be displayed. Pressing [R/S] will successively display the next memo.

A memo may be erased by pressing [E] when the memo is displayed. The next memo will then be displayed.

Necessary Accesories: Extended Functions/Memory Module

Operating Limits and Warnings: Memos should not use the character "\$" and should not begin with a numeral.

Sample Problem

a. Create the following memos. TWA 321 3/17 4:35 FOOD \$6.06 MOVIES \$5.00 BUY BREAD,MILK RALPH 421-7603

b. Erase the BUY BREAD,MILK memo. Add \$3.29 to the FOOD catagory.

SOLUTION:

Before running the MEMO program, you must manually create the MEMO file. 30 registers is a reasonable file size. Use the following keystrokes.

[ALPHA] MEMO [ALPHA] 30 [XEQ] [ALPHA] CRFLAS [ALPHA]

This program is most useful when it can be readily executed with only a few keystrokes. For this example, MEMO will be assigned to the ASN (shift XEQ) key. The following keystrokes make this assignment.

[ASN] [ALPHA] MEMO [ALPHA] [ASN]

Display	Ke ystro kes (SIZE ≥ 002)	Comments
Part a.		
	[USER]	
	[ASN]	Executes MEMO
ITEM?	TWA 321 3/17 4:35 [R/S]	Enter first memo item
AMOUNT?	[R/S]	Null entry for ordinary memo
TWA 321 3/17 4:35		Memo echoed to display
	[ASN]	Executes MEMO
ITEM?	FOOD [R/S]	Enter second memo item
AMOUNT?	6.06 [R/S]	Entry creates expense catagory
FOOD \$6.06		Expense echoed to display
	[ASN]	Executes MEMO
ITEM?	MOVIES [R/S]	Enter next memo item
AMOUNT?	5 [R/S]	
MOVIES \$5.00		Expense echoed to display
	[ASN]	Executes MEMO
ITEM?	BUY BREAD,MILK [R/S]	
AMOUNT ?	[R/S]	
BUY BREAD,MILK		Memo echoed to display

Display	Ke ystr ok es	Comments
	[ASN]	Executes MEMO
ITEM?	RALPH 421-7603 [R/S]	
AMOUNT?	[R/S]	
RALPH 421-7603		Memo echoed to display
Part b.		
	[ASN]	Executes MEMO
ITEM?	BUY [R/S]	First part of BUY BREAD,MILK
BUY BREAD,MILK		Memo retrieved
	[E]	Erase memo
RALPH 421-7603		Next memo displayed
	[ASN]	Executes MEMO
ITEM?	FO [R/S]	First few letters in FOOD
FOOD \$6.06		Expense displayed for one second
AMOUNT?	3.29 [R/S]	Enter additional amount spent
FOOD \$9.35		Accumulated value displayed

Error Messages

END OF FL while reviewing memos or after erasing a memo means there are no later memos in the file.

while attempting to add another item or an amount means there is no more room in the MEMO file. If this message occurs frequently you should delete the file and recreate it using a larger file size.

USER INSTRUCTIONS

				SIZE: (HP-41C) 002
STEP	INSTRUCTIONS	INPUT	FUNCTION	DISPLAY
1	Load program "MEMO"		[GTO]	PACKING
2	Create the MEMO file. This step must be	e atomo i		
	done only once unless the file has been			-
	purged from extended memory.	v	• • • • • • •	
	Enter the file name "MEMO" in the	· · · ·		
	alpha-register.	"MEMO"		
• • • •	Enter the file size in the x-register.	n	[XEQ] "CRFLAS"	n
	· · · · · · · · · · · · · · · · · · ·	· · · ·		
3	Execute the program.		[XEQ] "MEMO"	ITEM?
			·	
4	To enter a new item, continue at Step 5.			
	To retrieve or update a previous entry,			
	skip to Step 7.			
	To review all entries, skip to Step 9.			
5	Enter text of new item	"text"	[R/S]	AMOUNT?
6	This may be an ordinary memo or an			
	expense catagory.			
6a	Ordinary memo:		[R/S]	text
	Optional: Skip to Step 9.			
6Ъ	Expense catagory: Enter expense amount. Optional: Skip to Step 9.	x	[R/S]	text \$(x)
		· · · · ·		

USER INSTRUCTIONS

STEP 7	INSTRUCTIONS Retrieve or update a previous entry:	INPUT	FUNCTION	DISPLAY
7	Retrieve or update a previous entry:	1	L	
	Enter the first few characters which			
	uniquely define the memo.	text	[R/S]	
7a	If it is an ordinary memo			full text
	Optional: Skip to Step 9.			
7Ъ	If it an expense catagory			full text \$(x)
			· ····	then
	a na se an a companya and an		1 - - 	AMOUNT?
······	Optional: Skip to Step 9.		1979	······
	······································		· · ·	· · · · · · · · · · · · · · · · · · ·
8	Update the amount or redisplay it:			·····
· · · ·	Add additional amount spent, or	у	[R/S]	full text \$(x+y)
	to redisplay the entry.		[R/S]	full text \$(x)
	Optional: Continue with Step 9.		x	
9	To review next entry:		[R/S]	text
	Repeat this step as desired.			· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·			
10	To erase a memo, first display it using			······································
	any of the techniques just described.			
	Then set User mode on and press [E].		[E]	next memo
	Recommendation:			
	and the second			
	For easy accessibility assign the MEMO			
	program to a key. See HP-41C "Owner's Handbook and Programming Guide".	· · · · ·		
	handbook and rrogramming Guide".			

PROGRAM LISTING

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□ 67 □ 97 ⊠ 41C

STEP/ KEY CODE LINE KEY ENTRY (67/97 only)	COMMENTS	STEP/ KEY CODE LINE KEY ENTRY (67/97 only)	COMMENTS
01+LBL "MEM		43+LBL 02	-Prompt for Amount
0		. 44 "AMOUNT?	
02 0		43	
03 STO 01	Initialization	45 PROMPT	
04 "MEMO"	Initialization	46 ST+ 01	Add new amount.
05 SEEKPTA	•	47 " \$"	
06 FIX 2		48 ARCL 01	Accumulated amt.
07 CF 23	-	49 9	Delete chars
08 "ITEM?"		50 DELCHR	"\$" to end of rec
09 AON	Prompt for memo	51 FS? 22	If expense cata-
10 PROMPT	item.	52 APPCHR	gory append \$amt.
11 AOFF		53 RCLPT	D
12 FC? 23	If no entry, go	54 INT	Reset record ptr.
13 GTO 03	to Display Memo.	55 SEEKPT	to column 0.
14 CF 22		56+LBL 03	
15+LBL 00	-Search for Item	57 GETREC	Display Memo
16 POSFL		58 AVIEW	
17 X<0?	If not found,	59 FC? 21	
18 APPREC	append it to the	60 STOP	4 •
19 X<0?	file and go to	61 GTO 03	-Get next memo.
20 GTO 02	Prompt for Amount		:
21 ENTER†	Frompt for Amount	63 DELREC	Erase Memo
22 INT		64 GTO 03	-Display next memo
23 X=Y?	If found in 1st	65 END	
24 GTO 01		00 2.12	
25 1	col.,go to Check for "\$".		
26 +	101 5.	· · · · · · · · · · · · · · · · · · ·	
27 SEEKPT	Else cont. search		
28 GTO 00			
29+LBL 01	-Check for "\$"		
30 GETREC	-Check IOI Q		-
31 SEEKPT		·	
32 36		· · · · · · · · · · · · · · · · · · ·	
32 36 33 POSA		······································	
33 FUSH 34 X<0?	If no "\$", go		
34 A 0 9 35 GTO 03	to Display Memo.	مرجور المحاصير والمراجع والمراجع المحاصر المحاصر المراجع المراجع	
36 AVIEW		۹ ۱۰۰۰ ۱۰	
37 AROT	Else view expense	and the second	
38 ANUM	catagory.	• المراجع المراجع	
39 STO 01	Store previous		• •
40 * \$"	expense.	د. پې د په ويو د ورو د د مورو	
41 P0SFL		a sa sa sa sa	
42 0	Preload 0 amount.	· · · · · · · · · · · · · · · · · · ·	
	rieioau o amount.		
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Note: Refer to "HP-41C OWNER'S HANDBOOK AND PROGRAMMING GUIDE" for specific information on keystrokes. The Function Index is found at the very back of the Handbook. Refer to Appendix E in 67 or 97 "OWNER'S HANDBOOK AND PROGRAMMING GUIDE" for exact keystrokes.

STATUS

	SIZE	:	002
Program	Size	:	127 Bytes (19 Registers)
USER	Mode	:	ON to use the erase function.
ASCII File	Name	:	MEMO must be created manually by the user.
ASCII File	Size	:	Set by user. 30 registers is normally adequate.

DATA REGISTER

01 Expense amount

FLAGS USED

21	Printing enabled. Printing not enabled.
22	Amount entered; signals expense catagory. Null entry; signals ordinary memo.
23	Enter new memo or retrieve old memo. Review all memos from the beginning.