03319 PROGRAM SUBMITTAL

☒ New Program   ☐ Revision to Program

Model No.   ☐ 67   ☐ 97   ☒ 41

Program Title   Memo and Expense Note Pad

No. Lines   65   **Bytes**   127   **Category No.**   D 550
                                                          (Primary)
**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

5/30/

Name   Gary Goodman   # 0094

Company   (If Applicable)
Address   Box 259N   Route 4

City   Fredericksburg   **State/Province** Virginia   **Postal Code**   22405

Phone Number (703 **)**   775-3260   **Country**   U.S.A.

Hewlett Packard Dealer   Educalc

Acceptance Choice: ☐ FOUR $6.00 PROGRAMS   ☒ ONE POINT CERTIFICATE

Please use the checklist below to insure submittal of all proper program documents

☒ SIGNED PROGRAM   ☒ Program Description II   ☒ Program Listing(s)   ☒ Registers, Status...
   SUBMITTAL PAGE

☒ Program Description I   ☒ User Instructions   ☒ MASS STORAGE   ☐ Keyboard, Card Labeling
                                                            MEDIA mag. card   (optional)

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

PROGRAM SUBMITTAL

☒ **New Program**   ☐ **Revision to Program**

Model No.   ☐ 67   ☐ 97   ☒ 41

Program Title   Memo and Expense Note Pad

No. Lines 65   **Bytes** 127   **Category No.** D550
                                              (Primary)

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 (If Applicable)

Address   Box 259N   Route 4

City   Fredericksburg   **State/Province** Virginia   **Postal Code** 22405

Phone Number (703) 775-3260   **Country** U.S.A.

Hewlett Packard Dealer   Educalc

Acceptance Choice: ☐ FOUR $6.00 PROGRAMS   ☒ ONE POINT CERTIFICATE

Please use the checklist below to insure submittal of all proper program documents

☒ SIGNED PROGRAM SUBMITTAL PAGE   ☒ Program Description II   ☒ Program Listing(s)   ☒ Registers, Status...

☒ Program Description I   ☒ User Instructions   ☒ MASS STORAGE MEDIA mag. card   ☐ Keyboard, Card Labeling (optional)

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

Program Title: Memo and Expense Note Pad

Contributor's Name: Gary Goodman

Address: Box 259N Route 4

City: Fredericksburg   **State:** Virginia   **Zip 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	Keystrokes (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	Keystrokes	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 done only once unless the file has been purged from extended memory. Enter the file name "MEMO" in the alpha-register. Enter the file size in the x-register.	"MEMO" 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: Optional: Skip to Step 9.		[R/S]	text
6b	Expense catagory: Enter expense amount. Optional: Skip to Step 9.	x	[R/S]	text $(x)

USER INSTRUCTIONS

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

☐ 67   ☐ 97   ☒ 41C

STEP/LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
01	◆LBL "MEMO"			43	◆LBL 02		-Prompt for Amount
02	0			44	"AMOUNT?"		
03	STO 01			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 item.	51	FS? 22		If expense cata-
10	PROMPT			52	APPCHR		gory append $amt.
11	AOFF		― ― ― ― ― ― ―	53	RCLPT		
12	FC? 23		If no entry, go	54	INT		Reset record ptr.
13	GTO 03		to Display Memo.	55	SEEKPT		to column 0.
14	CF 22			56	◆LBL 03		― ― ― ― ― ― ―
15	◆LBL 00		-Search for Item	57	GETREC		Display Memo
16	POSFL			58	AVIEW		
17	X<0?		If not found,	59	FC? 21		
18	APPREC		append it to the	60	STOP		
19	X<0?		file and go to	61	GTO 03		-Get next memo.
20	GTO 02		Prompt for Amount	62	◆LBL E		
21	ENTER↑			63	DELREC		Erase Memo
22	INT			64	GTO 03		-Display next memo
23	X=Y?		If found in 1st	65	END		
24	GTO 01		col.,go to Check				
25	1		for "$".				
26	+						
27	SEEKPT		Else cont. search				
28	GTO 00						
29	◆LBL 01		-Check for "$"				
30	GETREC						
31	SEEKPT						
32	36						
33	POSA						
34	X<0?		If no "$", go				
35	GTO 03		to Display Memo.				
36	AVIEW		Else view expense				
37	AROT		catagory.				
38	ANUM		Store previous				
39	STO 01		expense.				
40	" $ "						
41	POSFL						
42	0		Preload 0 amount.				

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