

03249 PROGRAM SUBMITTAL

New Program

Revision to Program

Model No. 67 97 41

Program Title Telephone Directory

No. Lines 76 Bytes 171 Category No. P500
(Primary)

Primary Category Name Special Information Applications

Abstract-75 Word Maximum PHONE is a telephone directory program. Phone numbers may be quickly retrieved by indexing on the first few letters of the first or last name, or all names and phone numbers can be reviewed. The names and phone numbers are 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

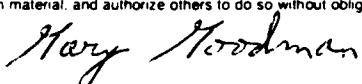
MASS STORAGE

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

HP USE ONLY

No.
Pages:

7

Mag Cards
Cassette:

Price:

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HP USE ONLY	No. Pages:	Mag Cards Cassette:	Price:
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Program Title: Telephone Directory

Contributor's Name: Gary Goodman

Address: Box 259N Route 4

City: Fredericksburg

State: Virginia

Zip Code: 22405

Program Description:

PHONE is a telephone directory program. Phone numbers may be quickly retrieved by indexing on the first few letters of the first or last name, or all names and phone numbers can be reviewed.

The program uses an ASCII file named PHONE, in extended memory to store the names and telephone numbers. You must create this file before first using the PHONE program.

When the program is run, you will be prompted for NAME?. To find a person's phone number enter the first few letters of the first name, or a blank followed by the first few letters of the last name, or you may just press [R/S]. If you make an entry, the computer will search for a name starting with the given letters, and if it finds a match, the name will be displayed for about a second, then the phone number will be displayed. If the directory contains a number of entries beginning with the same given characters, you may press [R/S] to find the next such entry. If no entry is found, the computer will prompt again for NAME?. If you make no entry but just presses [R/S] in response to the NAME? prompt, the first name and phone number in the file will be displayed. Pressing [R/S] again will display the next entry.

To make a new entry in the phone directory, make sure the calculator is not in alpha mode and that user mode is set on. Press [A]. You will be prompted by ADD NAME?. Enter the new name, then press [R/S], and you will be prompted for the phone number. Note, you are in alpha mode during this entry so all numbers must be entered as characters, i.e., the Shift key must be pressed before each digit. After entering the phone number, press [R/S] to complete the entry.

To delete a name and phone number, press [E] when the phone number is displayed.

Necessary Accessories: Extended Functions/Memory Module

Operating Limits and Warnings:

Sample Problem

a. Create a phone directory and add the following entries.

BILL SMITH 775-3210
 JOYCE 371-8316X211
 BILL JOHNSON 415-962-2134
 RALPH 421-7603

b. Get Ralph's number.

Get Smith's number.
 Get Bill Johnson's number.

c. Delete Joyce's number.

SOLUTION:

Before running the PHONE program, you must manually create the PHONE file. A file size of 35 registers will be enough for about 10 entries. Use the following keystrokes.

[ALPHA] PHONE [ALPHA] 35 [XEQ] [ALPHA] CRFLAS [ALPHA]

Display	Keystrokes (SIZE ≥ 003)	Comments
Part a.		
NAME?	[USER] [XEQ] "PHONE"	Initializes PHONE Prompt for name to retrieve
ADD NAME?	[ALPHA] [A] BILL SMITH [R/S]	Take out of alpha mode; add name Add Bill Smith to the directory
PHONE NO.?	775-3210 [R/S]	Enter Bill's phone number
BILL SMITH (pause) 775-3210		Name is momentarily displayed, then phone number is displayed
ADD NAME?	[A]	Add next name
PHONE NO.?	JOYCE [R/S]	Enter name for next entry
JOYCE (pause) 371-8316X211	371-8316X211 [R/S]	Enter phone number for entry
.		Name is momentarily displayed, then phone number is displayed
.		Repeat for Bill Johnson and
.		for Ralph
RALPH (pause) 421-7603		Name is momentarily displayed, then phone number is displayed

Display	Keystrokes	Comments
Part b.		
NAME?	[XEQ] "PHONE"	Initializes PHONE
RALPH (pause)	RALPH [R/S]	Get Ralph's phone number
421-7603		Review name retrieved
	[XEQ] "PHONE"	Ralph's phone number
NAME?	<u>SM</u> [R/S]	Initializes PHONE
BILL SMITH (pause)		<u> </u> =(space): search on last name
775-3210		Review name retrieved
	[XEQ] "PHONE"	Smith's phone number
NAME?	BILL [R/S]	Initializes PHONE
BILL SMITH (pause)		Bill Johnson's first name
775-3210	[R/S]	Oops! wrong Bill
BILL JOHNSON (pause)		Search for next Bill
415-962-2134		This is the right one
		Bill Johnson's phone number
Part c.		
NAME?	[XEQ] "PHONE"	Initializes PHONE
JOYCE (pause)	JOYCE [R/S]	Enter name to delete
371-8316X211		Review name before deleting
	[E]	Joyce's phone number
DELETE: R/S	[R/S]	Delete retrieved entry
DELETED		Verify by [R/S] within 10 sec.
		Entry for Joyce has been deleted

Error Messages

END OF FL while attempting to add another name

or

DELETED while attempting to add a phone number:

means there is no more room in the PHONE file. An incomplete entry is deleted. To add another entry, you may delete an unused name and number and try again, or you may delete the file and then recreate it using a larger file size.

USER INSTRUCTIONS

				SIZE: (HP-41C) 003
STEP	INSTRUCTIONS	INPUT	FUNCTION	DISPLAY
1	Load Program "PHONE"		[GTO]..	PACKING
2	Create the PHONE file. This step must be done only once unless the file has been purged from extended memory. Enter the file name "PHONE" in the alpha-register.	"PHONE"		
	Enter the file size in the x-register.	n	[XEQ] "CRFLAS"	n
3	Execute the program.		[XEQ] "PHONE"	NAME?
4	To add a name and phone number to the directory, continue at Step 5. To retrieve a name and number, skip to Step 8. To review all entries, skip to Step 11. To delete an entry, skip to Step 12.			
5	Add a name and phone number: Make sure HP-41 is in USER mode. Take out of ALPHA mode and press A.		[ALPHA] [A]	ADD NAME?
6	Enter the name to be added	"name"	[R/S]	PHONE NO.?
7	Enter the phone number for "name"	"phone no"	[R/S]	"name" then "phone number"

USER INSTRUCTIONS

STEP	INSTRUCTIONS	INPUT	FUNCTION	SIZE: (HP-41C)
				DISPLAY
8	<p>Retrieve a name and number:</p> <p>Enter the first few letters of the first name, or enter a space followed by the first few letters of the last name.</p>		"name"	[R/S] "name" then "phone number"
9	<p>If there is more than one name which matches your entry, you can retrieve the next match by pressing:</p> <p>Repeat this step until the desired match is found.</p>			[R/S] "name" then "phone number"
10	<p>When the entire file has been searched NAME? will be displayed. Return to Step 8.</p>			
11	<p>To review all entries:</p> <p>Repeat this step until the desired name is found or END OF FL is displayed.</p>		[R/S]	"name" then "phone number"
12	<p>To delete an entry, first retrieve it as instructed in Steps 8 through 11. Make sure HP-41 is in USER mode.</p>		[E]	DELETE: [R/S]
13	<p>You must press [R/S] within 10 seconds to verify the request to delete. Any other key will cancel the request.</p>		[R/S]	DELETED

PROGRAM LISTING

Page 6 of 7

□ 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 "PHO NE"				42♦LBL A 43 "ADD NAM			Add New Name
02♦LBL 01			Start	E?"			
03 "PHONE"				44 AON			Prompt for new
04 0			Initialize file.	45 PROMPT			name to be added
05 SEEKPTA				46 APPREC			to directory.
06 CF 23				47 RCLPT			
07 "NAME?"			Prompt for name to search for in phone directory.	48 STO L			
08 AON				49 "PHONE N			Prompt for the
09 PROMPT				0.?"			phone number.
10 ROFF				50 PROMPT			
11 ASTO 01			Store the name as entered.	51 ROFF			
12 RSHF				52 SF 25			
13 ASTO 02				53 APPREC			
14♦LBL 02			-Search File	54 FS?C 25			If not EOF, dis-
15 FC? 23			If no entry, dis-	55 GTO 03			play new entry;
16 GTO 04			play 1st number.	56 GTO 05			else delete name.
17 CLA				57♦LBL E			Delete Name
18 ARCL 01			Recall the name as entered.	58 RCLPT			
19 ARCL 02				59 X=0?			
20 POSFL			Search for name.	60 GTO 01			If no selection,
21 X<0?			If not found,	61 "DELETE":			go to Start.
22 GTO 01			return to Start.	R/S"			
23 FRC				62 AVIEW			
24 X=0?			If found in 1st col., reset ptr.	63 INT			Prompt to confirm
25 GTO 03			Else check to see	64 1			delete request.
26 GETREC			if name begins	65 -			
27 32			with a space.	66 SEEKPT			
28 ATOX			If not, then	67 84			
29 X≠Y?			Search again.	68 GETKEY			
30 GTO 02			-Reset Pointer	69 X≠Y?			
31♦LBL 03			Reset record ptr.	70 GTO 01			Ans. yes by [R/S]
32 LASTX			to column 0.	71 DELREC			else go to Start.
33 INT				72♦LBL 05			Delete name and
34 SEEKPT				73 DELREC			phone number.
35♦LBL 04				74 "DELETED"			
36 GETREC							
37 AVIEW				75 AVIEW			
38 GETREC			Flash name.	76 END			
39 PSE							
40 PROMPT			Display phone no.				
41 GTO 02			Search again.				

STATUS

SIZE : 003

Program Size : 171 Bytes (25 Registers)

USER Mode : ON to add or delete entries

ASCII File Name : PHONE must be created manually by user.

ASCII File Size : Set by user. Approximately 3 1/2 registers will be needed for each entry in the directory

DATA REGISTERS

01 First 6 letters of name to search for
02 Second 6 letters of name

FLAGS USED

23 Set : A name to search for has been entered.
Clear : Name has not been entered; review all entries.

25 Set : PHONE file is not full.
Clear : File is full; no room for phone number.