

Addendum For Model II Mailing List System

Version 2.0 of the MLS contains changes to MLS/BAS, SETUP/BAS and MLSFIX/BAS which accomplish the following:

- 1. The user's index file (name1, where "name" is the system name assigned by the user during Setup) has been changed to a DIRECT access file instead of a Sequential access file. This change reduces the amount of diskette space required to hold the file and avoids the occasional disk write failures that some users have experienced with sequential access files. The time to load or save the index file is approximately the same as before. For users who have data files saved under previous versions of MLS, it is only necessary to run MLSFIX after the Version 2.0 program files have been transferred to the user's old diskette. MLSFIX/BAS will kill the old (sequential) name1 file, re-sort all records and create a new (direct) name1 file.
- 2. SETUP/BAS was changed to pre-allocate diskette space for the user's index and data files. During an initial Setup, after the user has specified a system name and selected either Compressed or Expanded Format, the following question will be asked:

Reserve space for how many records (MAX = nnnn)?

(nnnn can be a maximum of either 3000 or 2000, depending on format.) You may respond with any number from 1 to MAX and space for that many data and index records will be reserved on the diskette. This will prevent excessive segmentation of the user files, avoiding a possible directory overflow and speeding up disk I/O. Note that if, in the future, the user should exceed the selected number of records, the files will be extended automatically and no failure will occur. Reserving space less than MAX will be of most use to those users who want to have several sets of MLS files on the same diskette.

- 3. Line Printer II Users: Two optional program modules have been added to the MLS diskette. These are SETUPLP2/ASC and MLSLP2/ASC, both ASCII format BASIC files. They allow owners of the Line Printer II to configure SETUP/BAS and MLS/BAS to print labels in the two formats designed by Trinity Forms to fit on the fixed 9½" carrier width of the Line Printer II. These are 3¾" by 1" and 3¾" by 2" labels, both in a two label across configuration. To re-configure the system, do the following:
 - 1. Go to BASIC and type: LOAD "SETUP/BAS" and press ENTER
 - Type: MERGE "SETUPLP2/ASC" and press ENTER
 - 3. Type: SAVE "SETUP/BAS" and press ENTER
 - 4. Type: LOAD "MLS/BAS" and press ENTER
 - 5. Type: MERGE "MLSLP2/ASC" and press ENTER
 - 6. Type: SAVE "MLS/BAS" and press ENTER

The preceding steps will replace the five original label format options with the two options which are compatible with the Line Printer II. The change to SETUP/BAS merely establishes the initial default label as 3%" by 1", two across.

A Division of Tandy Corporation

ADDENDUM

CONVERSION PROGRAM FOR USE IN 50 Hz COUNTRIES

This Disk contains conversion programs for operating under 50 Hz power sources. If you have a 60 Hz power source (USA, etc.) these programs must not be executed, and should be removed from the Disk.

Converting to 50 Hz

The Model II diskette in this package contains a program called HERZ50. You should use the HERZ50 modification provided **BEFORE** you run programs.

To perform this modification, follow these steps:

- 1. Power-up normally
- 2. After entering the Date and Time, type:

DOTHERZ50

3. Press **ENTER** after each of the messages:

This conversion program will permanently convert the operating system to 50 Hertz operation. Once a disk is converted, it cannot be converted back to 60 Hertz operation.

Removing 50 Hz Programs

Now you should remove the HERZ50 program by following these steps:

After Power-up, entering the Date and Time
 The screen will show: You type:
 DOS READY
 ENTER PASSWORD OF DISK TO PURGE (1-8)
 PASSWORD and press ENTER

	FILENAME*DELETE (Y/N/Q) *Various filenames will appear, continue to press N until you reach the one you want.	N and press ENTER (until filename PATCH appears.
3.		Type Yand press ENTER to delete PATCH.
4.		Type Nand press ENTER until HERZ50 appears.
5.		Type \(\mathbf{Y}\) to delete HERZ50, then type \(\mathbf{Q}\) to QUIT.

6. You may now run the Main Program.

Mailing List System

TRS-SU NIODELII

First Edition - 1979

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Table of Contents

Introduction	1
Features	
Some Decisions You Must Make Before Running MLS.	
Setting Up the Mailing List System	
MLS Categories	
Running MLS	
The Computer's Table of Contents	
Adding New Records to the File	
Assigning Categories	
File Maintenance	
Command List	
Printing Listings	
Complete Records	
Selected Records	
Printing Mailing Labels	
Setting the Label Size	
Print Labels From File	
Return Address Label Printing	
Expansion and Revision of the System	25
Appendices	~=
1. Rotating Diskettes	27
2. Backing Up Your Program Diskettes	28
3. File Printing	
4. Mailing Labels	
5. Using Continuous Form Envelopes	
6. Recovering Lost Mailing List Information	3/
Mailing Labels Order Form	
Program Listings	

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Introduction

One of the most tedious jobs in any business or organization is keeping track of names and addresses. Normally, the poor secretary assigned to the task has to wade through hundreds of index cards, selecting dozens of specific articles for selective mailing. Then comes the time-consuming task of addressing envelopes.

The Model II Mailing List System (MLS) is designed to make the secretary's life much easier. This program can store up to 3000 names and addresses, available for update at any time. Each name may also be assigned to up to eight special mailing lists. Any number of names may be selected through the computer and printed for future use. Finally, the program will print the selected addresses plus your return address on the envelopes.

Features

- 1. Automatically puts records in alphabetical and Zip Code order.
- 2. Rapid access to any name on the list.
- 3. Easy error correction.
- 4. Prints listings and mailing labels.
- 5. Prints your own return address labels.
- 6. Revise or update any information at any time.
- 7. Stores up to 3000 names.

A Note to the First-Time Computer User

If you have never operated a computer before, don't worry. This manual was written to help you through every section of the program step-by-step. We'll tell you exactly what to do, and when to do it. We'll also point out some special features as we go along that will make running the program easier.

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Some Decisions You Must Make Before Running MLS

When you type your list of names into the computer, you will be using a format that looks like this:



As you can see, this format will include important information about each name in your mailing list. Every item is followed by a line, where you will type the information. Each line can hold a certain number of characters.

There are two types of formats that you may use:

Compressed Format — this gives you less room for entering information, but lets you enter more names (3000).

Expanded Format — this gives you more room for entering information, but you use less names (2000).

Decisions You Must Make (continued)

Here are the exact amounts of space you are allowed for each item:

	Compressed	Expanded
First Name, Middle Initial	Up to 9 characters	Up to 16 characters
Last or Company Name	Up to 14 characters	Up to 18 characters
Company Name or Telephone Number	Up to 17 characters	Up to 20 characters
Street Address	Up to 18 characters	Up to 20 characters
City	Up to 14 characters	Up to 20 characters
State (2 Letters)	2 characters	2 characters
Zip Code or Country	Up to 9 characters	Up to 9 characters
Remarks	Ø characters	Up to 20 characters

Each of the names can also be assigned to any of eight special mailing lists. This will allow you much more versatility in selecting and printing names. This will be explained in detail later on.

Using the expanded format, you also get up to $2\emptyset$ characters for Remarks. This remark line can be used for general comments or for telephone numbers.

Setting Up the Mailing List System

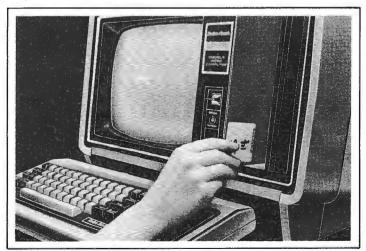
IMPORTANT NOTE: There are two Disks included with this package. One is for use with United States (60 cycle) current, the other is for 50 cycle operation. Choose the appropriate Disk as your master and erase the other. After erasing and reformatting, Backup your Master onto this extra Disk.

Diskettes can be damaged through contact with magnetic fields, mishandling, etc. To insure against loss of your program, before you begin running Mailing List System, you must make a copy (Backup) of your MLS Diskette, and keep the original in a safe place. See page 28 for detailed "Backup" instructions.

Follow these steps in exact order:

- 1. Turn on the TRS-80 Model II Computer, the printer, and the Expansion Disk Drives (if any).
- 2. Press the light bar (on the Disk Drive door) to open Drive door.
- 3. Insert the Backup Copy of the MLS Program in Drive #Ø. (See Picture) You will hear the Diskette click into place. The disk must have a piece of gummed foil over one of the notches. (See page 28)
- 4. Close the Disk Drive door firmly.

Note: Once a diskette has been seated in the drive, you must shut the drive door before you can remove the diskette.



Inserting a diskette (Label might extend vertically across the diskette).

Setting Up Mailing List (continued)

The screen will show:	You will type:
INITIALIZING	Press the "ON LINE" button (if you have a printer with an "ON LINE" button).
ENTER TODAY'S DATE (MM/DD/YY)	Ø17.01.7.1980 and press ENTER (Example for January 1, 1980)
ENTER THE TIME	Press ENTER
TRSDOS READY	Make sure the CAPS key is pressed down. Type SETUP and press ENTER
The screen will show:	
Is this an (I)nitial setup or a (R)evision_?	
Since this is the Initial Set Up, press [].	
Enter the name to be assigned to the syste	em:
Type the name you want to give to this M	ailing List and press ENTER.
Are the records to be (C)ompressed or (E	xpanded format?_
Note: Remember, with the (C)ompressed information, but you may enter more nan get more room for information, but are al	nes. With the (E)xpanded format, you
Press Cor E.	

The screen will show:



Note: When you enter information in this program, some of the computer's keys will work in a special way. We will describe these as we go along.

You will now enter the information you want to appear on your own return address labels.

Type your Name or Company Name on the first line and press **ENTER**.

Notice that there is a white rectangle or block on the line where you type. When you press **ENTER**, the block moves down to the next line. You can use the **!** and **!** keys to move the block as well. Go ahead and try them.

The key and the key will move the cursor right and left without deleting characters. Pressing the TAB key inserts a space at the cursor and moves the rest of the line to the right. Depressing the CTRL key and pressing D deletes a character and moves the rest of the line to the left.

These keys, along with the And keys make it easy for you to edit and correct your entries. It might help if you want to practice with them until you feel comfortable with them. You will use them in the same manner throughout the entire program.

Setting Up MLS (continued)

Type your Title or Company Name on the second line and press **ENTER**].

If you change one of your entries and then wish to restore it to whatever it was before, simply press the **ESC** key.

Type your Street Address on the third line and press [ENTER].

Type your City, State, and Zip Code, and press [ENTER].

MLS Categories

When you enter names in the Mailing List, you may also assign them to any of eight Special Lists. These Special Lists are Categories that you define yourself. For example, you could categorize people by their relationship to you (Employees, Customers, Distributors, etc.). You could also place them on a special list, such as a Christmas list or a bowling league.

You will enter the Categories you wish to use during the Setup. When making entries, you will simply type the number of the Category that applies to each individual name.

You will now enter the names of your special categories (up to eight). Type each one and press $\boxed{\mathtt{ENTER}}$.

When you have finished, press the **F2** key, and the computer will store the information.

Press[F1] to exit from the program.

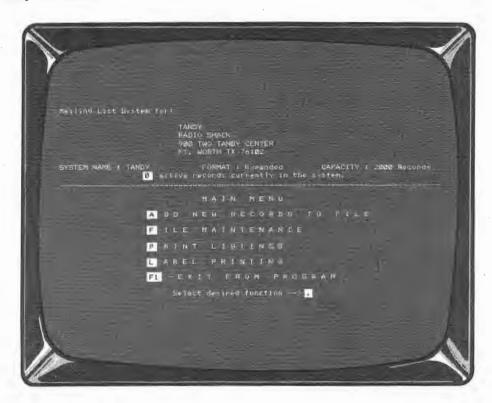
Running MLS

The screen will show:	You type:
TRSDOS READY	MLS and press ENTER
The screen will show:	
Enter the name you assigned to the system	:
Type the name you previously entered for	your MLS program and press ENTER.

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The Computer's Table of Contents

The Computer's Table of Contents is called a "Main Menu". This is how it appears on your screen:



This is what each function does:

(A)DD NEW RECORDS TO FILE

Allows you to add new names to the Mailing List.

(F)ILE MAINTENANCE

Lets you change, delete, and print individual records.

(P)RINT LISTINGS

This allows you to print all or part of the names.

(L)ABEL PRINTING

Prints mailing labels using the names on file and return address labels.

(F1) EXIT FROM PROGRAM

Lets you exit to DOS.

Right now, we are going to begin Adding Names.

Press A.

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Adding New Records To The File

You will now begin adding names to your Mailing List. The editing features are the same as during Setup. You may skip any line except for the second (Last or Company Name). This line must have an entry.

The line titled Company Name or Tel. Number will only appear on the mailing labels if the first character is a letter. If the first character is another symbol (or a space) the line will not be printed. This can be handy for short comments or telephone numbers.

Go ahead and fill out the first record.

Assigning Categories

The Special Categories you selected are numbered at the bottom of the screen. When you reach the question about Categories, press the corresponding number for each Category you wish to assign to the name. If you want to assign the name to $\underline{A}ll$ of the Categories, press \underline{A} . If you do \underline{N} ot wish to assign the name to any of the categories, press \underline{N} .

If you are using the Expanded format, you can add Remarks.

When you have finished, press [F2], and the name will be stored.

Go ahead and enter all of the names.

When You Finish

Once you have finished entering names, press [F1] and you will return to the Main Menu.

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File Maintenance

The File Maintenance section is used to make corrections or adjustments to your Mailing List.

Press F at the Main Menu and the screen will show the same format used in Entering New Records.

Notice the command list at the bottom of the screen. Let's go through each command and discuss what each one does.

Command List

(S)earch

This is used to find a particular name.

- 1. Type the person's last name and press **ENTER**.
- 2. The record will appear on the screen.

Note: Search will also work if you type in the first few letters of the name you want. For example, if you are looking for "Williams", you could type $\overline{\mathbb{W}[I]}$, and the computer would find a name that started with those letters.

(N)ext or (P)revious Record

- 1. With a name already displayed on the screen, press N for Next or P for Nervious.
- 2. This will cause the MLS to step backward or forward, one name at a time, in alphabetical sequence.

(U)pdating Records

If you need to change information on a record for any reason, here's how to do it:

- Get the desired name on the screen.
- 2. Press U at the Command List.
- 3. Change the record, using the same editing features as in Setup.
- 4. Once you are satisfied with the entry, press [72] to store it.
- 5. If you do not have any changes to make, press F1 to exit from the Update.

File Maintenance (continued)

(D)eleting Records

- 1. Get the desired name on the screen.
- 2. Press [D] for Delete.
- 3. The screen will show:

DELETE requested. Approve (Y/N)?_

- 4. If you press Y, the record will be erased from the screen and will no longer exist.
- 5. If you press N, the record will not be deleted.

(L)abel Print

This command can be used to print a mailing label for the name on the screen. The printer must be on before you use this function.

- 1. Get the name on the screen and press L
- 2. The label will begin to print immediately.

Once you have completed all File Maintenance, press [F1] and you will return to the Main Menu.

Printing Listings, Complete Records, and Selected Records

Printing Listings

Press P at the Main Menu. The printer must be turned on and ready to print.

The screen will show:

Is the printing to be in (A)Iphabetic or in (Z)ip Code Sequence?__

Press A or Z.

(C)omplete or (S)elected records?_

Complete Records

If you would like a printout of all the names in your Mailing List, press C for Complete records. Press F2 and printing will begin immediately.

Selected Records

If you wish to print only certain names in the Mailing List, press S for Selected records.

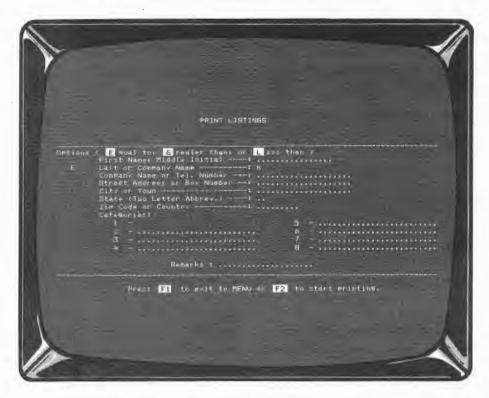
Once again, the editing features are the same as during Setup. Notice the extra column on the left hand side of the format. In this column, next to the line you wish to search by, you will type one of three letters:

E - for Equal to

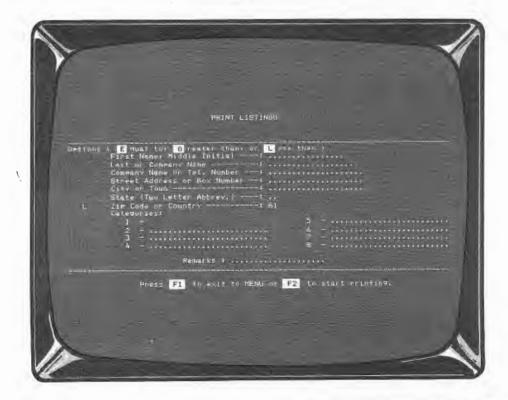
G — for Greater than

 $L-for \underline{L}ess than$

In other words, if you wanted to print every name that began with the letter K, you would type an E next to the Name or Company Name line.



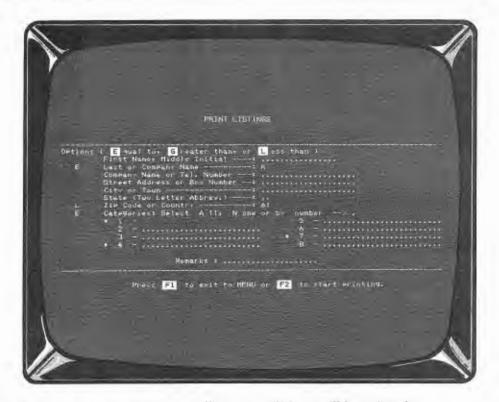
If you wanted to print every name with a Zip Code starting with numbers less than 61, you would type the letter L next to the Zip Code Line.



You may designate as many of these conditions as you like.

If you want to print by Category, type E next to the Category line. You may then select which Categories you wish to print by placing asterisks just as in (A)dd Records.

Suppose you placed all three of these conditions on your printing:



Only those records which meet all your conditions will be printed.

Press [F2] to begin printing.

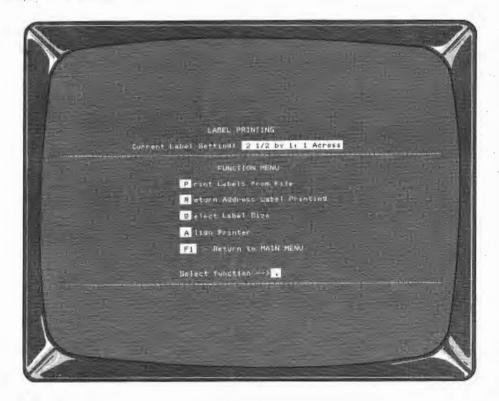
You may stop the printing at any time by pressing [F1]. After printing has completed, you will return to the Main Menu.

Printing Mailing Labels

The program has been designed to use standard self-adhesive mailing labels, mounted on a tractorfeed paper backing. These labels are available from Radio Shack stores in boxes of 5000 (Catalog No. 26-1404). Load the labels into the printer and align them for printing. Printing always begins directly under the 1 on the printer paper guide. With the labels loaded and the line printer turned on, you should print a few test labels to check the alignment.

Press
at the Main Menu for Label Printing.

The screen will show:



Printing Mailing Labels (continued)

Setting the Label Size

Press S to Select Label Size.

The screen will show:



The dimensions referred to are the sizes of the labels themselves, in inches. The number across is the number of labels across on the sheet you are printing on. For example, if you had a sheet of 2-1/2" by 1" labels, four across on the paper, you would press [A] and [4].

Press the appropriate letter and number to choose your desired label size. MLS always remembers the last setting used and the next time the program is run, the label setting will be the same.

Press F1 to return to the Label Printing Menu.

Press A for Align Printer. This will print four rows of X's, the same size as your printing labels. This will allow you to adjust the printer for best centering.

Print Labels From File

Press P for Print Labels From File. The questions will appear:

Is the printing to be in (A)Iphabetic or (Z)ip Code sequence?

Press A or Z.

(C)omplete File or (S)elected Records?_

If you press © you may begin printing by pressing F2. Press § and you will see the same selection format used in the Print Listings function.

After you set your criteria, press [F2], and the labels will begin to print. When the printing finishes, you will return to the Label Printing Menu.

Return Address Label Printing

Press [R].

HOW MANY LABELS (1 TO 999) ?_

Type in the number and press **ENTER**.

Press [72] and the computer will begin printing labels.

(There are examples of Mailing Labels in Appendix 4.)

Note: You can always terminate printing by holding down the [F1] key until the printer stops.

Once you have finished printing, you will return to the Label Printing Menu. Press [F1] and you will return to the Main Menu. Press [F1] again, and you will exit to DOS.

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Expansion and Revision of the System

As conditions change within your business, you may decide that MLS needs revising or expanding. You may use the Setup program to do this.

The Revision option of the Setup program can be used to:

- Change your name and address on the mailing lists.
- Change your category titles (Christmas, Birthdays, etc.).

Run the Setup program.

IS THIS THE (I) NITIAL SET UP OR A (R) EVISION?_

Press R. The screen will show:

Enter the name assigned to the system: _ _ _ _

Type the MLS System name and press **ENTER**. You will see all of the information you entered in the initial Setup. This will give you a chance to check over all of it before making any changes.

Type in the new information. (If you do not want to change data, just press [ENTER]. This will keep the original information.)

Note: In the case of the title categories, you may add, delete, or change the existing categories.

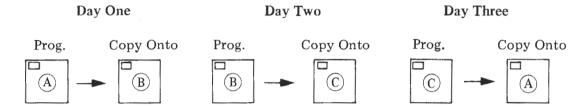
When you have finished, press [F2] and the system will store the new information.

Press [F1] and you will exit from the program.

When you're using your system, get in the habit of making copies of both diskettes at the end of the day. The next day, use the copies that you just made. It's a very inexpensive form of insurance. You might consider even carrying the backup copies home at night in case of fire, theft, or vandalism. You must also save the diskettes that contain the last completed month.

Here's an example, using two extra diskettes:

The first day's diskettes we will call A and B. The next day's diskettes will be called C and D.



On the second day, you will take A and B, and use them as blank diskettes to copy C and D. If something happens to a diskette, you still have the last backup copy to rely on. Four extra diskettes will give you three days of record protection.

Be sure to keep the last completed month's set of diskettes till you complete the current month. This is very important in case of a major problem.

Note: The most effective method for erasing diskettes is by using a Radio Shack Bulk Tape Eraser, Stock No. 44-210.

Appendix 2-Backing Up Your Program Diskette

The Mailing List System Program Diskette must never be used to actually store your information. It is only used as a source to make copies that will be used. If you run this Master Disk even once, new programs are created on the disk which destroy the disk's function as a Master Disk. You must only use the Master Diskette to make working fresh Backup copies.

After you load a Backup copy with your Mailing List System information, you should make a Backup of the copy, using the working copy as your source disk.

The instructions for Backing Up the Master Diskette and Backing Up your working diskette are identical. Follow these instructions exactly.

- 1. Make sure the Diskette has all notches exposed (No gummed foil tape on the upper notch.)
- 2. Place a gummed foil tape over the notch on the new blank disk.
- Turn on the Model II computer. Press the light bar (on the Disk Drive door)
 to open the Drive door. Insert the Program Diskette in the Drive (see picture
 on page 5). You will feel the diskette click into place.
- 4. Close the Drive door firmly.

The screen will show:

You will type:

ENTER THE DATE MM/DD/YY

Ø17/Ø17/198Ø and press
ENTER . That was an example for

January 1, 1980.

ENTER THE TIME HH.MM.SS.

Press ENTER

TRSDOS READY

FORMAT OF THE PMD

and press **ENTER**. The two symbols are braces.

not parentheses.

ENTER 'Y' TO START ETC.

Remove the Program Diskette and insert the new blank diskette. Close

the door. Press $[\overline{Y}]$.

The disk will format (create tracks to store information) automatically. The entire Format procedure takes about 6 minutes. When the disk is completely formatted, the screen will show " $\emptyset\emptyset$ FLAWED TRACKS". If you get any number other than $\emptyset\emptyset$, you must reFORMAT the new diskette. Remove and erase the new blank diskette. Insert the Program Diskette and repeat from Step 4 (above). When the new diskette is successfully Formatted.

Backing Up Your Program Diskette (continued)

The screen will show: 00 FLAWED TRACKS TRSDOS READY

You will type:

Remove the new diskette (Destination Diskette), and insert the Program Diskette (Source Diskette), Now type: **BACKUP** and press **ENTER**.

SOURCE DRIVE (Ø-3) ETC.

0

KEY PASSWORD FOR SOURCE

DISK

PASSWORD

DESTINATION DRIVE (Ø-3)

Ø

Y

SOURCE DISKETTE READY (Y)

At this point, the Model II will load PART of the information from the Source Diskette into its memory. When the computer memory is full the screen will show DESTINATION DISKETTE READY (Y).

Remove the Source (Program) Diskette, and insert the Destination (New, Formatted) Diskette and close the door. Press \(\mathbb{Y} \).

The computer will store information onto the new Destination Diskette. When it has completed the first transfer, the READY SOURCE DISKETTE (Y) message will appear again. Remove the Destination (Formatted) Diskette, and insert the Source (Program) Diskette, and press \(\mathbb{T} \). You must keep repeating this cycle of swapping the two diskettes until you have transferred all the information onto the new Diskette. When the transfer is completed, the screen will show: PRESS ANY KEY TO CONTINUE. You can now file the Original Program Diskette in a safe place. The new Diskette is now ready to use. Simply press any key to begin.

Appendix 3-File Printing

WED NOV 7 1979 MAILING LIST SYSTEM FOR:

JONATHAN SMITH SMITH TITLE AND LOANS 3443 W 6TH STREET FT. WORTH, TX 76116

ALPHABETIC SEQUENCE

COMPLETE FILE

		====					
BRRDY	J. T. CRTEGORIES: 3	4 8	WISCONSIN ELECTRIC	8943 S. HRMPTON REMARKS:	MADISON	MI	57842
HOUSE	REBECCA CRTEGORIES: 1 2	2 3	TEXRS CREDIT UNION 4 5 6 7 8	1223 N. CENTRAL REMARKS:	DALLAS	TX	7 612 3
HUBBARD	FRANCIS CATEGORIES: 1	3 6	TERRELL PLASTICS	3245 SOUTHERN. REMARKS: (555) 555-3432	PITTSBURGH	PA	25789
LUCKHARDT	WILLIAM CATEGORIES: 2 4	4 6	DONNER & DONNER .	4325 E. 5TH STREET REMARKS:	SAN FRANCISCO	СЯ	98745
MEINTSER	ERIK CATEGORIES:		RADIO SHACK	900 TWO TANDY CENTER REMARKS:	FT. WORTH	ΤX	76192

** END OF LISTING **

WED NOV 7 1979 MAILING LIST SYSTEM FOR:

JONATHAN SMITH SMITH TITLE AND LOANS 3443 W 6TH STREET FT. WORTH, TX 76116

ZIP CODE SEQUENCE

COMPLETE FILE

HUBBARD	FRANCIS CATEGORIES: 1 3	TERRELL PLASTICS 6	3245 SOUTHERN. REMARKS: (555) 555-3432	PITTSBURGH	PA	25789							
BRADY	J. T. CRTEGORIES: 3 4	WISCONSIN ELECTRIC 8	8943 S. HRMPTON REMARKS:	MADISON	WI	57842							
MEINTSER	ERIK CRTEGORIES:	RADIO SHACK	900 TWO TANDY CENTER REMARKS:	FT. WORTH	TX	76102							
HOUSE	REBECCA CATEGORIES: 1 2	TEXAS CREDIT UNION 3 4 5 6 7 8	1223 N. CENTRAL REMARKS:	DRLLRS	ΤX	76123							
LUCKHARDT	WILLIAM CRTEGORIES: 2 4	DONNER & DONNER 6	4325 E. 5TH STREET REMARKS:	SAN FRANCISCO	CA	98745							

** END OF LISTING **

J. T. BRRDY WISCONSIN ELECTRIC 8943 S. HAMPTON MADISON WI. 57842

REBECCA HOUSE TEXAS CREDIT UNION 1223 N. CENTRAL DALLAS TX 76123

Francis Hubbard Terrell Plastics 3245 Southern. Pittsburgh Pa 25789

MILLIAM LUCKHARDT DONNER & DONNER 4325 E. 5TH STREET SAN FRANCISCO CA 98745

ERIK MEINTSER RADIO SHACK 908 TWO TANDY CENTER FT. WORTH TX 76102

Appendix 5-Using Continuous Form Envelopes

Printing Addresses on Envelopes

There are many styles of continuous envelopes available from various suppliers. The Mailing List package can be modified to print address information directly on these envelopes. This will require some additional work on your part.

Samples of these envelopes will need to be measured to determine the relative print positions. Changes will then be made to the program itself to allow for these special conditions.

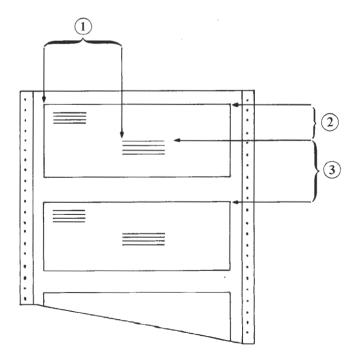
Envelope Measurements

The following measurements will need to be made and recorded in inches:

- #1 The distance from the left edge of the envelope to the position where the address is to be printed. (This will later be converted to 10ths of inches.)
- #2 The distance from the top of the envelope to the position where the first line of the address is to be printed. (This will later be converted to 6th of inches.)
- #3 The distance from the first line of the address to the top of the next envelope. (This will later be converted to 6ths of inches.)

Note: Whenever possible, these measurements should be made to the nearest whole inch.

This is a diagram of the 3 measurements that are required:



Appendix 5-Using Continuous Form Envelopes (continued)

Converting the Measurements for Horizontal and Vertical Spacing

1. Measurement #1

This value is converted to the 10ths of inches by multiplying by 10 Example: 4" x 10 = 40 (10ths)

2. Measurement #2

This value is converted to 6ths of inches by multiplying by 6. Example: $2" \times 6 = 12$ (6ths)

3. Measurement #3

This value is converted to 6ths of inches by multiplying by 6. Example: 4" x 6 = 24 (6ths)

Then this value in 6ths is adjusted by 4 (the number of address lines possible) by subtracting 4. This will give the number of lines from the bottom of the address to the top of the next envelope. Example: 24 - 4 = 20 (6ths)

Note: This should always be 4. The program will automatically adjust the number of lines if there are only 3 lines of address.

Making the Program Modifications

The program "MLS/BAS" will be modified to incorporate the envelope printing format. The envelope format will replace the 5 3/4 by 3 Shipping Label format. If you also need the ability to print on shipping labels, you will need to keep two disks: one with the shipping label option and another with the envelope option.

To make the program changes, you must first load the "MLS/BAS" program. To do this, follow these steps:

1) At the TRSDOS Ready condition, type **BASIC**. BASIC will then be loaded from the disk and the screen will show:

- 2) Type: LOAD"MLS/BAS" and press ENTER.
- 3) The screen will again show:

READY

Make the changes outlined in one of the following two sections.

4) To Save the changes, type: **SAVE"MLS/BAS"** and press **ENTER**.

Program Modifications for Envelopes With Pre-printed Return Addresses

To modify the program to print on continuous envelopes with the return addresses already on the envelopes, 4 lines will need to be changed. The changes required are:

1) Change line number 4810.

```
FROM:

4810 LA=1:LD=3:LH=38:LT=1:LB=2:GOTO4820

TO:

4810 LA=1:LD=3:LH=30:LT=12:LB=20:GOTO4820

From # 2 From # 3
```

2) Change line number 3190.

FROM :

```
3190 IFLS=5THENGOSUB3370:LM=21
TO:
3190 IFLS=5THENLM=40
=====
From # 1
```

3) Change line number 468\(\theta \).

```
FROM:

4680 PRINTa(15,19), R$; I$"D"N$; I$" -

5 3/4 by 3"TAB(45)R$; I$"1"N$; I$

TO:

4680 PRINTa(15,19), R$; I$"D"N$; I$" -

ENVELOPES"TAB(45)R$; I$"1"N$; I$
```

Appendix 5—Continuous Form Envelopes (continued)

4) Change line number 2960.

```
FROM:

2960 PRINT" 5 3/4 by 3,"LA"Across "N$;:RETURN

TO:

2960 PRINT" ENVELOPES "N$;:RETURN
```

5) Then Save the changes.

Modifications for Envelopes Without Pre-printed Return Addresses

To print both return addresses and addresses addresses, the following procedures are required:

1) Adjust measurement #2 to allow for the lines required to print the return addresses by subtracting 5 (4 for the maximum number of line and 1 for a blank line at the top of the envelope).

Example:
$$12 (6ths) - 5 = 7 (6ths)$$

- 2) Change the following lines in the MLS/BAS program:
- a) Change line number 4810.

```
FROM:

4810 LA=1:LD=3:LH=38:LT=1:LB=2:GOTO4820

TO:

4810 LA=1:LD=3:LH=38:LT=1:LB=20:GOTO4820

===
From # 3
```

b) Change line number 319\(\text{0} \).

```
FROM:
3190 IFLS=5THENGOSUB3370:LM=21
TO:
3190 IFLS=5THENGOSUB3370:LM=40
==
From # 2
```

Appendix 5—Continuous Form Envelopes (continued)

```
Change line number 3370.
                         FROM :
                            3370 LPRINT"FROM: ";
                                                                 TO :
                         3370 REM
d) Change line number 3410.
                         FROM :
                           3410 FORI=1T07:LPRINTCHR$(10):NEXT:
                                  LPRINTTAB(17)"TO: ";:RETURN
                                  the state of the tone and annot being the state that the state and a state that the state state and a 
                         TO:
                          3410 FORI=1TO7:LPRINTCHR$(10):NEXT:RETURN
                                                                                                                                                                                                                                                         section deleted
                                                                        From adjusted #1
                                                                          (same in this case)
                     Change line number 4680.
                           FROM :
                            4680 PRINTO(15,17), R$; I$"D"N$; I$" -
                                     5 3/4 by 3"TAB(45)R$; I$"1"N$; I$
                                    ----
                         TO:
                          4680 PRINTa(15,19), R$; I$"D"N$; I$" -
                                  ENVELOPES"TAB(40)R$;I$;"1"N$;I$
                                  ....
                     Change line number 296\( \text{0} \).
                             FROM :
                             2960 PRINT" 5 3/4 by 3, "LA" Across "N#; RETURN
                                                                                                                          MILES TREET COLOR COMMA CARREL PARTIE SANDE SANDE CARREL MARKE COMMA CARREL COMMA CARREL CARR
                             TO:
                              2960 PRINT" ENVELOPES "N$; RETURN
```

Then Save the changes.

Appendix 6-Recovering Lost Mailing List Information

Recovering Lost Mailing List Information

Power failures or improper exits from the Mailing List System may cause some or all of your information to be lost. A recovery program has been included to retrieve information which has been lost.

THIS PROCEDURE SHOULD ONLY BE DONE IN CASES WHERE A BACKUP COPY CAN NOT BE USED OR DOES NOT EXIST.

To perform this operation, do the following:

- 1) At TRSDOS READY, type: MLSFIX
- 2) Enter the "System Name".
- 3) Press the **F2** key to begin the recovery and sorting process.

Be patient. This process could take up to $1\emptyset$ hours if the system is full and should probably be done overnight.

This re-sorting process may also recover some items which have been deleted. If this occurs, these items will need to be deleted again.

When the process is complete, the system will return to TRSDOS READY. You can now resume normal operation of the Mailing List System.

,			
	•		

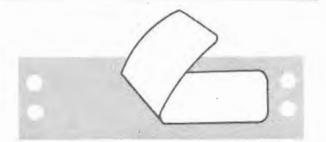


TRS-80® ORDER FORM FOR CUSTOM PIN FEED LABELS

* DESIGNED FOR USE ON TRS-80 TRACTOR FEED PRINTER

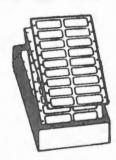
FEATURES OF TRS-80® PINFEED LABELS

- PRODUCED ON THE HIGHEST QUALITY, SMUDGE PROOF, WHITE STOCK
- PERMANENT SELF-ADHESIVE
- FAN FOLDED FLAT DESIGNED FOR USE WITH TRS-80 PRINTERS EQUIPPED WITH TRACTOR OR PINFEEDS
- PRECISION DIE CUT
- SUPER STRONG, CONTINUOUS CARRIER SHEET FOR TROUBLE-FREE PRINTOUT
- PACKED IN CONVENIENT, HEAVY-DUTY CORRUGATED BOXES FOR SHIPPING



ALL YOU HAVE TO DO IS "Peel and Press"

Available in both — Single and Multiple widths up to 5 wide to conform to various pinfeed width limitations.



TO ORDER LABELS -

- Fill in the number of boxes desired in the column below entitled "Quantity".
 NOTE: Be sure to insert this number in the proper label number line.
- 2. Fill in your company name and address.
- 3. Enclose your check for the total amount (including tax if applicable), and mail with this order form. Allow 5 to 7 days for shipment.
- 4. Individual orders accepted in box quantities only.

LABEL NO.	SIZE WIDTH x HEIGHT	INDIVIDUAL LABELS PER BOX	COST PER BOX*	QUANTITY/BOXES
TFC-25/15-1 (Across)	2-1/2 x 15/16	5,000	\$ 26.00	
TFC-25/15-2 (Across)	2-1/2 x 15/16	10,000	40.50	
TFC-25/15-4 (Across)	2-1/2 x 15/16	20,000	61.50	
TFC-25/15-5 (Across)	2-1/2 x 15/16	25,000	73.75	
TFC-35/15-1 (Across)	3-1/2 x 15/16	5,000	17.50	
TFC-35/15-2 (Across)	3-1/2 x 15/16	10,000	32.50	
TFC-35/15-3 (Across)	3-1/2 x 15/16	15,000	48.75	
TFC-35/15-4 (Across)	3-1/2 x 15/16	20,000	65.00	
TFC-4/115-1 (Across)	4 x 1-15/16	5,000	70.88	
TFC-4/115-2 (Across)	4 x 1-15/16	10,000	95.75	
TFC-4/115-3 (Across)	4 x 1-15/16	15,000	138.75	
TFC-534/215-1 (Across)	5-3/4 x 2-15/16	2,500	56.20	

ALL SHIPMENTS SENT FREIGHT PREPAID.

*TEXAS RESIDENTS ADD 5% SALES TAX.

Your Company Name		
Address		
City	State	Zip
Phone		

* SEND THIS FORM WITH YOUR CHECK FOR FULL AMOUNT TO:

TRINITY FORMS CO.
NO. 1 FORMS DRIVE
CARROLLTON, TEXAS 75006

	_
	_
	_

10 REM ** Business MLS SETUP Program - Version 1.1 ** 20 REM ** Copyright 1979 by Tandy Corp. Licensed from T.D. Price ** 30 REM ** 09/26/1979 ** 40 PRINTCHR\$(25):CLS:CLEAR1000:DEFINTA-Z:DIMC\$(7):R=5:C=0:I\$=CHR\$(157) 50 ONERRORGOTO970 :GOSUB340 54 GOTOAR 55 XX=USR3(0) 60 NA\$=FNFD\$(23):TL\$=FNFD\$(23):AD\$=FNFD\$(23):CSZ\$=FNFD\$(23) 70 FORI=0T07:C\$(I)=FNFD\$(25):NEXT 80 GOTO1060 90 REM - Start of subroutine area 100 REM - Alphanumeric Input 110 IN\$=MID\$(F\$,1,ABS(FL)):WE=0:GOTO130 120 WE=1:IN\$=MID\$(S\$,1,ABS(FL)):MID\$(IN\$,1,LEN(ED\$))=ED\$ 130 CF=0:W1\$=R\$:IFFL>0THENW1\$=N\$ 140 W=1:PRINTCF\$;W1\$IN\$;MID\$(B\$,1,ABS(FL));CO\$; 150 Ws=INKEYs:IFWs=""THEN150 160 IFW>A8S(FL)THEN200 ELSEIFW\$>=" "ANDW\$<="~"THEN270 170 IFWs=CHR\$(29)THENIFW<=ABS(FL)THENPRINTMID\$(IN\$,W,1);:W=W+1:GOTO280 180 IFWs=CHRs(9)THENIFW<=ABS(FL)THENMIDs(INs,W+1,ABS(FL)-W)= MIDs(INs, W, ABS(FL)-W):MIDs(INs, W, 1)=" ":GOTO290 190 IFWs=CHR\$(4)THENIFW<=ABS(FL)THENMID\$(IN\$,W,ABS(FL)-W)= MID\$(IN\$,W+1,ABS(FL)-W):MID\$(IN\$,ABS(FL),1)=" ":GOTO290 200 CF=INSTR(CC\$,W\$):IFCF<>0THENW\$=CHR\$(13):GOTO240 210 IFW=1THEN230 ELSEIFW\$=CHR\$(8)THENPRINTW\$;FL\$;B1\$;:W=W~1:MID\$(IN\$,W,1)= FL\$:G0T0150 220 IFWs=CHRs(28)THENPRINTWs;:W=W-1:GOT0150 230 IFW\$=CHR\$(27)THENPRINTMID\$(B\$,1,W-1);:ONWE+1GOTO110 ,120 240 IFW\$<>CHR\$(13)THEN150 ELSEIFWE=0THENIN\$=MID\$(IN\$,1,W-1) 250 IFCF=0ANDW=1THENCF=5 260 PRINTCF\$;MID\$(B\$,1,W-1);N\$;IN\$;SPC(ABS(FL)-LEN(IN\$)); RETURN 270 MID\$(IN\$,W,1)=W\$:W=W+1:PRINTW\$; 280 IFABS(FL)=1THENW\$=CHR\$(13):GOTO240 ELSE150 290 PRINTCFs;MIDs(Bs,1,W-1);INs;MIDs(Bs,1,ABS(FL)-W+1);COs;:GOTO150 300 REM - Video screen reader 310 ED\$=MID\$(S\$,1,ABS(FL)):MID\$(ED\$,1,ABS(FL))=USR(ED\$) 320 IFEDs=MIDs(Fs,1,ABS(FL))THENEDs="":RETURNELSERETURN 330 REM - Parameter assignments 340 B1\$=CHR\$(28):B\$=STRING\$(40,B1\$):FL\$=".":F\$=STRING\$(40,FL\$) 350 S\$=STRING\$(40,32):R\$=CHR\$(26):N\$=CHR\$(25):CF\$=CHR\$(2):CO\$=CHR\$(1) 360 EL\$=CHR\$(23):ES\$=CHR\$(24):DG\$="0123456789":CC\$=CHR\$(1)+CHR\$(2)+CHR\$(30) +CHR\$(31) 37@ DEFFNUC\$(A\$)=CHR\$((255 XOR (2→5))AND ASC(A\$)):DEFUSR3=&HF24@ 380 DEFUSRO=&HF200:DEFUSR1=&HF220:DEFFNFD\$(N)=STRING\$(N,".") 390 RETURN 400 REM - Parameter display heading 410 CLS:PRINTTAB(30)"SYSTEM PARAMETERS" 420 PRINTa(2,0), "SYSTEM NAME : "SN\$ TAB(30) "FORMAT : "; 43Ø IFFM\$="C"THENPRINT"Compressed";ELSEPRINT"Expanded"; 440 PRINTTAB(55) "CAPACITY : "CP"Records

450 PRINTa(3,0),STRING\$(80,95):RETURN

```
460 PRINTO(R,C+10), "YOUR NAME OR COMPANY NAME: ";
470 PRINTO(R, C+38), NA$;
480 PRINTa(R+1,C+10), "TITLE/COMPANY NAME
                                                : ";:PRINT@(R+1,C+38),TL$;
                                                . " :
490 PRINTA(R+2,C+10), "YOUR STREET ADDRESS
500 PRINTa(R+2,C+38),AD$;
510 PRINTa(R+3,C+10), "CITY, STATE, AND ZIP CODE: ";
520 PRINTO(R+3,C+38),CSZ$;
530 PRINTa(R+7,C), "YOUR ASSIGNED CATEGORIES : ";
540 FORI=0TO7:PRINTa(R+9+(IAND3),C+4-(40*(I>3))),I+1" - "C$(I);:NEXT
550 PRINTa(R+14,C),STRING$(80,95):RETURN
560 PRINTA(R+16,C+10), "Press "R$" F1 "N$" to exit from program or "R$" F2 "N$;
570 PRINT" to store parameters.";:RETURN
580 IX=1
590 ONIXGOSUB620 ,640 ,670 ,700 ,740
600 IFWE=1ANDIN$=MID$(S$,1,ABS(FL))THENPRINTMID$(B$,1,ABS(FL));MID$(F$,1,ABS
        (FL));
610 ONCF+1GOTO590 ,780 ,780 ,590 ,590
                                           · 590
620 PRINTa(R,C+38),;:FL=-23:GOSUB310 :GOSUB120
630 IFCF=40RCF=00RCF=5THENIX=2:RETURNELSERETURN
640 PRINTa(R+1,C+38),;:FL=-23:GOSUB310
                                        :GOSUB120 :TL$=IN$
650 IFCF=40RCF=00RCF=5THENIX=3ELSEIFCF=3THENIX=1
660 RETURN
670 PRINT@(R+2,C+38),;:FL=-23:GOSUB310 :GOSUB120 :AD$=IN$
680 IFCF=40RCF=00RCF=5THENIX=4ELSEIFCF=3THENIX=2
69Ø RETURN
700 PRINTA(R+3,C+38),;:FL=-23:GOSUB310 :GOSUB120 :CSZ$=IN$
710 IFCF=40RCF=00RCF=5THENIX=5:I=0:ELSEIFCF=3THENIX=3
720 RETURN
730 REM - Categories
740 PRINTa(R+9+(IAND3),C+10-(40*(I>3))),;:FL=-25:GOSUB310 :GOSUB120 :C$(I)=IN$
750 IFCF=3ANDI=0THENIX=4:RETURN
760 IFCF=3THENI=I-1:RETURN
770 IF(CF=40RCF=00RCF=5)ANDI<>7THENI=I+1:RETURN
780 RETURN
790 FØ$=SN$+"Ø":F1$=SN$+"1":F2$=SN$+"2":RETURN
800 OPEN"O",1,F0$
810 PRINT#1, SN$:PRINT#1, NA$:PRINT#1, TL$:PRINT#1, AD$:PRINT#1, CSZ$:PRINT#1, FM$
820 PRINT#1, CP; M; M0; M1; M2; M3; M4; M5; M6; M7; M8
830 FORI=0T07:PRINT#1,C$(I):NEXT:CLOSE1
84Ø RETURN
850 N=0:TN=1:F=0
860 OPEN"O",1,F1$
870 PRINT#1,N;TN;F;1;1;4;26;0;1:CLOSE1
880 RETURN
890 OPEN"D":1:F2$:M:CLOSE1
900 RETURN
910 OPEN"I",1,FØ$
920 LINEINPUT#1, SNs:LINEINPUT#1, NAs:LINEINPUT#1, TLs:LINEINPUT#1, ADs
930 LINEINPUT#1, CSZ$:LINEINPUT#1, FM$
940 INPUT#1, CP, M, MO, M1, M2, M3, M4, M5, M6, M7, M8
95Ø FORI=ØTO7:LINEINPUT#1,C$(I):NEXT:CLOSE1
```

1340 CLOSE: CLEAR100: SYSTEM

```
960 RETURN
970 IFERR<>53THEN1020
980 PRINTa(20,20),Rs" NO FILE ON DISKETTE WITH THAT NAME "Ns;
990 FORT=1T08000:NEXT
1000 PRINTa(20,20), CHR$(23);
1010 RESUME1260
1020 CLS:PRINTO(11,20),R$" Unexpected ERROR, Code"ERR"in Line"ERL;
1030 PRINTa(13,30), PROGRAM TERMINATED "N#;:PRINTa(20,0),;:GOTO1340
1040 PRINTO(20,30), Rs" Loading parameters. "Ns; RETURN
1050 REM - Start of main program
1060 PRINTO(4,26), "BUSINESS MAILING LIST SYSTEM"
1070 PRINTa(6,25), "System Parameter Setup Program"
1080 PRINTA(8,0), STRING$(80,95)
1090 PRINTA(14,18), "Is this the "R$;I$"I"N$;I$"nitial setup or a "R$;I$"R"N$;I$
        "evision ? ";
1100 FL=-1:GOSUB110 :IFCF=1THEN1330 ELSEIFCF<>0THEN1090 ELSE SE$=FNUC$(IN$)
1110 IFSE$<>"I"ANDSE$<>"R"THENPRINTCHR$(8);:GOTO1100
1120 IFSE$="R"THEN1260
1130 PRINTA(16,15), "Enter the name to be assigned to the system : ";
1140 FL=-7:GOSUB110 :IFCF=1THEN1330 ELSEIFCF<>0THEN1130 ELSE SN$=IN$
1150 PRINTa(18,11), "Are the records to be "R$; I$"C"N$; I$"ompressed or ";
1160 PRINTR$; I$"E"N$; I$" xpanded format ? ";
1170 FL=-1:GOSUB110 :IFCF=1THEN1330 ELSEIFCF<>0THEN1150 ELSE FM$=FNUC$(IN$)
1180 IFFM$<>"C"ANDFM$<>"E"THENPRINTCHR$(8);:GOTO1170
1190 IFFM="C"THENCP=3000:M=85:M0=9:M1=14:M2=17:M3=18:M4=14:M5=2:M6=9:M7=2:
        M8=0:GOTO1210
1200 CP=2000:M=127:M0=16:M1=18:M2=20:M3=20:M4=20:M5=2:M6=9:M7=2:M8=20
1210 GOSUB410 :GOSUB460 :GOSUB560
1220 GOSUB580 : IFCF=1THEN1330
1230 PRINTQ(23,19), Rs" Initializing System - Storing parameters. "Ns;
1240 GOSUB790 :GOSUB800 :GOSUB850 :GOSUB890
1250 PRINTa(23,10), CHR$(23); GOTO1220
1260 PRINTO(16,18), "Enter the name assigned to the system : ";
1270 FL=-7:GOSUB110 :IFCF=1THEN1330 ELSEIFCF<>0THEN1260 ELSE SN$=IN$:GOSUB1040
1280 GOSUB790 :GOSUB910 :GOSUB410 :GOSUB460 :GOSUB560
1290 GOSUB580 : IFCF=1THEN1330
1300 PRINTA(23,23), R#" Storing revised system parameters. "N#;
1310 GOSUB790 :GOSUB800
1320 PRINTA(23,18), CHR$(23);:GOTO1290
1330 CLS:PRINTa(11,30),R$" END OF SETUP PROGRAM "N$:PRINTa(20,0),;
1334 GOTO1340
1335 XX=USR3(Ø)
```

```
10 REM ** Business MLS Main Program - Version 1.1 **
20 REM ** Copyright 1979 by Tandy Corp. Licensed from T.D.Price **
30 REM ** 09/26/1979 **
40 PRINTCHR$(25):CLS:CLEAR1550:DEFINTA-Z:DIMC$(7),P(3),L$(4,4);BL$=
        STRING$(23,32): I$=CHR$(157):FP=1
50 ONERRORGOTO790 :GOSUB310 :GOSUB370
54 GOTO60
55 XX=USR3(Ø)
60 DT$=LEFT$(DATE$,3)+" "+MID$(DATE$,4,3)+" "+MID$(DATE$,7,2)+" "+MID$(DATE$,
        9.4)
7Ø GOTO338Ø
80 INs=MIDs(Fs,1,ABS(FL)):WE=0:GOTO100
90 WE=1:IN$=MID$(S$,1,ABS(FL)):MID$(IN$,1,LEN(ED$))=ED$
100 CF=0:W1$=R$:IFFL>0THENW1$=N$
110 W=1:PRINTCF$;W1$IN$;MID$(B$,1,ABS(FL));CO$;
120 W#=INKEY#:IFW#=""THEN120
130 IFW>ABS(FL)THEN170 ELSEIFW$>=" "ANDW$<="~"THEN240
140 IFWs=CHRs(29)THENIFW<=ABS(FL)THENPRINTMIDs(INs,W,1);:W=W+1:GOTO250
150 IFW$=CHR$(9)THENIFW<=ABS(FL)THENMID$(IN$,W+1,ABS(FL)-W)=
        MID$(IN$,W,ABS(FL)-W):MID$(IN$,W,1)=" ":GOTO260
160 IFWs=CHRs(4)THENIFW<=ABS(FL)THENMIDs(INs,W,ABS(FL)-W)=
        MID$(IN$,W+1,ABS(FL)-W):MID$(IN$,ABS(FL),1)=" ":GOTO260
170 CF=INSTR(CCs,Ws):IFCF<>0THENWs=CHR$(13):GOTO210
180 IFW=1THEN200 ELSEIFWs=CHR$(8)THENPRINTW$;FL$;B1$;:W=W-1:MID$(IN$,W,1)=
        FL$:60T0120
190 IFW$=CHR$(28)THENPRINTW$;:W=W-1:GOT0120
200 IFWs=CHRs(27)THENPRINTMIDs(Bs,1,W-1);:ONWE+1GOTO80
                                                         , 90
210 IFW$<>CHR$(13)THEN120 ELSEIFWE=0THENIN$=MID$(IN$,1,W-1)
220 IFCF=0ANDW=1THENCF=5
230 PRINTCF$;MID$(B$,1,W-1);N$;IN$;SPC(ABS(FL)-LEN(IN$));:RETURN
240 MID$(IN$,W,1)=W$:W=W+1:PRINTW$;
250 IFABS(FL)=1THENW$=CHR$(13):GOTO210 ELSE120
260 PRINTCF$;MID$(B$,1,W-1);IN$;MID$(B$,1,ABS(FL)-W+1);CO$;:GOTO1♡Ø
                   :IFIN$<>"THENIN$=FNUC$(IN$):IFIN$="Y"ORIN$="N"THENRETURN
270 FL=-1:GOSUB80
280 PRINTCHR$(8);:GOTO270
290 ED$=MID$(S$,1,ABS(FL)):MID$(ED$,1,ABS(FL))=USR(ED$)
300 IFED$=MID$(F$,1,ABS(FL))THENED$="":RETURNELSERETURN
310 B1$=CHR$(2B):B$=STRING$(40,B1$):FL$=".":F$=STRING$(40,FL$)
320 Ss=STRING$(40,32):Rs=CHR$(26):Ns=CHR$(25):CF$=CHR$(2):CO$=CHR$(1)
330 EE$=CHR$(23):ES$=CHR$(24):DG$="0123456789":CC$=CHR$(1)+CHR$(2)+CHR$(30)
        +CHR$(31)
340 DEFFNUC$(A$)=CHR$(223ANDASC(A$)):UL$=STRING$(80,95):DEFUSR3=&HF240
350 DEFUSRO=&HF200:DEFUSR1=&HF220:DEFUSR2=&HF000:DEFFNFD$(N)=STRING$(N,".")
360 RETURN
370 IFFP=1THENFP=0:ERROR56:RETURNELSERETURN
380 OPEN"I",1,F1$
390 INPUT#1,N,TN,F,LS,LA,LD,LH,LT,LB:IFN=0THEN410
400 FORI=1TOTN-1:INPUT#1,V(I,0),V(I,1):NEXT:LINEINPUT#1,EL$
410 CLOSE1
42Ø OPEN"R", 1, F2$, M
```

430 FIELD1, (M1) ASD1\$, (M0) ASD0\$, (M2) ASD2\$, (M3) ASD3\$, (M4) ASD4\$, (M5) ASD5\$,

(M6)ASD6\$,(M7)ASD7\$,(M8)ASD8\$

```
440 RETURN
450 PRINTO(0,26), "ADD NEW RECORDS TO FILE";
460 PRINTa(2,45), "LAST RECORD : ";EL$;
470 PRINTa(3,0), UL$;
480 RETURN
490 REM
500 PRINTA(R,C),"First Name, Middle Initial ----: ";FNFD$(M0)
510 PRINTa(R+1,C),"Last or Company Name -----: ";FNFD$(M1)
520 PRINTA(R+2,C),"Company Name or Tel. Number ---: ";FNFD$(M2)
530 PRINTa(R+3,C),"Street Address or Box Number --: ";FNFD$(M3)
540 PRINTA(R+4,C), "City or Town -----: ";FNFD$(M4)
550 PRINTa(R+5,C), "State (Two Letter Abbrev.) ----: ";FNFD$(M5)
560 PRINT@(R+6,C),"Zip Code or Country -----: ";FNFD$(M6)
570 PRINTO(R+7,C), "Categories: ";
580 FORI=0T07:PRINTa(R+8+(IAND3),C-(38*(I>3))),CHR$(32);:NEXT
590 FORI=0T07:PRINTa(R+8+(IAND3),C+2-(38*(I>3))),I+1" - "C$(I);:NEXT
AMM IFM8<>MTHENPRINTA(R+13,C+15), "Remarks : ";FNFD$(M8)
610 E7=0:RETURN
620 PRINTa(19,0),UL$;
630 PRINTA(21,12), "Press "R$" F1 "N$" to exit to MAIN MENU or "R$" F2 "N$;
640 PRINT" to store record.";
650 RETURN
660 GOSUB710 :LSETD0s=E0s:LSETD1s=E1s:LSETD2s=E2s:LSETD3s=E3s:LSETD4s=E4s:
        LSETD5$=E5$:LSETD6$=E6$:LSETD7$=MKI$(E7):LSETD8$=E8$
670 PUT1, J:RETURN
680 GET1, J: RETURN
690 E0s=D0s:E1s=D1s:E2s=D2s:E3s=D3s:E4s=D4s:E5s=D5s:E6s=D6s:E7=CVI(D7s):
       E8$=D8$:RETURN
700 H0s=D0s:H1s=D1s:H2s=D2s:H4s=D4s:H6s=D6s:RETURN
710 IFJ>1THENGET1,J-1:RETURNELSERETURN
720 F0$=SN$+"0":F1$=SN$+"1":F2$=SN$+"2":RETURN
730 OPEN"I",1,F0$
740 LINEINPUT#1,SN$:LINEINPUT#1,NA$:LINEINPUT#1,TL$:LINEINPUT#1,AD$
750 LINEINPUT#1, CSZ$:LINEINPUT#1, FM$
760 INPUT#1,CP,M,M0,M1,M2,M3,M4,M5,M6,M7,M8
770 FORI=@TO7:LINEINPUT#1,C$(I):NEXT:CLOSE1:DIMV(CP+2,1)
780 ELS=FNFDS(M1):RETURN
790 IFERR<>53THEN840
800 PRINT@(18,23),R$" NO FILE ON DISKETTE WITH THAT NAME "N$;
810 FORT=1T08000:NEXT
820 PRINTa(18,0), CHR$(23);
830 RESUME3400
840 IFERR<>56THEN890 ELSEIFFP=1THEN880
850 IF0=USR1(0)THENFP=0:RESUMENEXT
860 PRINT@(22,0),EE$;TAB(28)R$" ** PRINTER NOT READY ** "N$
870 FORT=1T080000:NEXT:PRINTa(22,0),EE$
880 FP=1:RESUMENEXT
890 CLS:PRINTa(11,20),R$" Unexpected ERROR, Code"ERR"in Line"ERL;
900 PRINTa(13,30)," PROGRAM TERMINATED "N$;:PRINTa(20,0),;:CLOSE:GOTO4800
910 PRINTa(23,31), Rs" Storing record "Ns; RETURN
```

```
920 PRINT@(23,15), CHR$(23); RETURN
930 PRINTO(18,31), R$" Loading system files. "N$; : RETURN
940 IX=1
950 ONIXGOSUB980 ,1000 ,1030 ,1060 ,1090 ,1120 ,1150 ,1180 ,1300
960 IFWE=1ANDIN$=MID$(S$,1,ABS(FL))THENPRINTMID$(B$,1,ABS(FL));
        MIDs(Fs,1,ABS(FL));
970 ONCF+1GOTO950 ,1500 ,1500 ,950 ,950 ,950
980 PRINTa(R,C+33),;:FL=-M0:GOSUB290 :GOSUB90
                                                  :E0$=IN$
990 IFCF=40RCF=00RCF=5THENIX=2:RETURNELSERETURN
1000 PRINTa(R+1,C+33),;:FL=-M1:GOSUB290 :GOSUB90
                                                     :E1$=IN$
1010 IFCF=40RCF=00RCF=5THENIX=3ELSEIFCF=3THENIX=1
1020 RETURN
1030 PRINTa(R+2,C+33),;:FL=-M2:GOSUB290 :GOSUB90
                                                     :F2s=1Ns
1040 IFCF=40RCF=00RCF=5THENIX=4ELSEIFCF=3THENIX=2
1050 RETURN
1060 PRINTa(R+3,C+33),;:FL=-M3:GOSUB290 :GOSUB90
                                                     :E3$=IN$
1070 IFCF=40RCF=00RCF=5THENIX=5ELSEIFCF=3THENIX=3
1080 RETURN
1090 PRINTa(R+4,C+33),;:FL=-M4:GOSUB290 :GOSUB90
                                                     :F45=IN5
1100 IFCF=40RCF=00RCF=5THENIX=6ELSEIFCF=3THENIX=4
1110 RETURN
1120 PRINTa(R+5,C+33),;:FL=-M5:GOSUB290 :GOSUB90
                                                     :E5$=IN$
1130 IFCF=40RCF=00RCF=5THENIX=7ELSEIFCF=3THENIX=5
1140 RETURN
1150 PRINTa(R+6,C+33),;:FL=-M6:GOSUB290 :GOSUB90
                                                     #EAs=INs
1160 IFCF=40RCF=00RCF=5THENIX=8ELSEIFCF=3THENIX=6
1170 RETURN
1180 PRINTa(R+7,C+12), "Select "R$; I$"A"N$; I$"ll, "R$; I$"N"N$; I$"one or by ";
1190 PRINTR$; I$"number"N$; I$" --> ";
                    :CN$=IN$:IFCF=ØTHEN122Ø
1200 FL=-1:GOSUB80
1210 IFCF=40RCF=5THENIX=9:GOTO1500 ELSEIFCF=3THENIX=7:GOTO1500 ELSE1500
1220 IFFNUC$(CN$)="A"THEN1290
1230 IFFNUCs(CNs)<>"N"THEN1250
1240 FORI=0TO7:PRINTO(R+8+(IAND3),C-(38*(I>3))),CHR$(32);:NEXT:E7=0:GOTO1180
1250 IFCN$<"1"ORCN$>"8"THENPRINTCHR$(8);:GOTO1180
1260 CN=VAL(CN$)-1
1270 E7=E7 OR 2+CN
1280 PRINTa(R+8+(CNAND3),C-(38*(CN>3))),"*";:GOTO1180
1290 FORI=0T07:PRINTa(R+8+(IAND3),C-(38*(I>3))),"*";:NEXT:E7=255:G0T01180
1300 IFM8=0THENIX=8:RETURN
1310 PRINTa(R+13,C+25),;:FL=-M8:GOSUB290 :GOSUB90
                                                      : FR$=: IN$
1320 IFCF=3THENIX=8
1330 RETURN
1340 PE=0:GOSUB1370 :PN=PT:PE=1:GOSUB1370 :PZ=PT
1350 V(TN,0)=-TN:V(TN,1)=-TN:PF=0:P(0)=-ABS(TN):GOSUB1450
1360 J=ABS(P(0)):IFJ<>TNTHENTN=TN-1:F=F-1:RETURNELSERETURN
1370 NL=0:NH=TN
1380 IFPE=0THENCX$=E1$+E0$:GOSUB1570 :CQ$=CX$ELSECX$=E6$:GOSUB1570 :CQ$=CX$
1390 K1=INT((NH-NL)/2):IFK1=0THENPT=NL+1:RETURNELSEN1=K1+NL
1400 J=ABS(V(N1, PE)):GOSUB680
1410 IFPE=OTHENCX$=D1$+D0$:GOSUB1570 :CP$=CX$ELSECX$=D6$:GOSUB1570 :CP$=CX$
```

1810 NL=N1:GOT01760

1830 IFSGN(V(N1,0))=-1THEN1820 1840 GOSUB490 :GOSUB1850 :RETURN

1870 PRINTO(R+1,C+33),E1\$

1420 IFCP\$=CQ\$THENPT=N1+1:RETURN 1430 IFCP\$>CQ\$THENNH=N1:GOTO1390 1440 NL=N1:GOTO1390 1450 V(0,0) = VARPTR(V(PN,0)) : V(0,1) = VARPTR(V(PZ,1))1460 P(1) = PF : P(2) = VARPTR(V(0,0)) : P(3) = VARPTR(V(0,1))1470 GOSUB1490 1480 RETURN 1490 P(0)=USR2(VARPTR(P(0))):RETURN 1500 PRINT@(R+7,C+12),CHR\$(23); 1510 IFCF=1THENRETURN 1520 IFE1#=SPACE#(M1)THENGOSUB1610 :IX=2:GOTO950 ELSERETURN 1530 OPEN"0",1,F1\$ 1540 PRINT#1,N;TN;F;LS;LA;LD;LH;LT;LB:IFN=0THEN1560 1550 FORI=1TOTN-1:PRINT#1,V(I,0);V(I,1):NEXT:PRINT#1,EL\$ 1560 CLOSE1: RETURN 1570 FORI=1TOLEN(CX\$) 1580 IFASC(MID*(CX*,I,1))>96THENMID*(CX*,I,1)=CHR*(ASC(MID*(CX*,I,1))AND223) 1590 NEXT:RETURN 1600 E0=SPACEs(M1):E1=SPACEs(M1):E6=SPACEs(M6):RETURN 1610 PRINTa(23,18), Rs" CANNOT WRITE RECORD WITH BLANK LAST NAME ! "Ns; 1620 FORT=1T08000:NEXT:PRINTa(23,18),CHR\$(23);:RETURN 1630 PRINTO(0,30), "FILE MAINTENANCE"; 1640 PRINTA(2,60), "MODE: "; 1650 PRINTa(3,0), UL\$; 1660 PRINTO(19,0), UL\$; 1670 RETURN 1680 PRINTa(2,67), R\$" SEARCH "N\$; RETURN 1690 PRINTa(2,67), Rs" COMMAND "Ns;: RETURN 1700 PRINTa(2,67), Rs" INDEX "Ns;: RETURN 1710 PRINTO(2,67), R\$" UPDATE "N\$;: RETURN 1720 PRINTO(2,67), R\$" DELETE "N\$; RETURN 1730 PRINTA(2,67), R\$" LABEL "N\$; RETURN 1740 PRINTO(2,67), CHR\$(23);:RETURN 1750 NL=0:NH=TN:CX\$=E1\$:GOSUB1570 :E1\$=CX\$ 1760 K1=INT((NH-NL)/2):IFK1=0THEN1820 ELSEN1=K1+NL 1770 J=ABS(V(N1,0)):GOSUB680 1780 CX\$=LEFT\$(D1\$,LEN(E1\$)):GOSUB1570 :CP\$=CX\$ 1790 IFCP\$=E1\$THENE1\$=D1\$:GOTO1830 1800 IFCP\$>E1\$THENNH=N1:GOTO1760

1820 PRINTa(21,0), CHR\$(23); PRINTa(21,25), R\$" RECORD NOT IN FILE ! "N\$;:

1860 PRINTa(R,C+33),;:IFE0\$<>SPACE\$(M0)THENPRINTE0\$ELSEPRINTFNFD\$(M0)

1880 PRINTA(R+2,C+33),;:IFE2\$<>SPACE\$(M2)THENPRINTE2\$ELSEPRINTFNFD\$(M2)
1890 PRINTA(R+3,C+33),;:IFE3\$<>SPACE\$(M3)THENPRINTE3\$ELSEPRINTFNFD\$(M3)
1900 PRINTA(R+4,C+33),;:IFE4\$<>SPACE\$(M4)THENPRINTE4\$ELSEPRINTFNFD\$(M4)
1910 PRINTA(R+5,C+33),;:IFE5\$<>SPACE\$(M5)THENPRINTE5\$ELSEPRINTFNFD\$(M5)

1850 FORI=0T07:PRINTa(R+8+(IAND3),C-(38*(I>3))),CHR\$(32);:NEXT

FORT=1T08000:NEXT:CF=6:RETURN

ELSERETURN

```
1920 PRINTO(R+6,C+33),;:IFE6s<>SPACEs(M6)THENPRINTE6sELSEPRINTFNFDs(M6)
1930 FORI=0TO7:IF(E7 AND 2→I)THENPRINTa(R+8+(IAND3),C-(38*(I>3))),"*";
1940 NEXT
1950 PRINTO(R+13,C+25),;:IFE8$<>SPACE$(M8)THENPRINTE8$ELSEPRINTFNFD$(M8)
1960 RETURN
1970 PRINTa(20,0), CHR$(24); : RETURN
1980 PRINTa(21,12), "Press "R$" F1 "N$" to exit from UPDATE or "R$" F2 "N$;
1990 PRINT" to store record."; : RETURN
2000 PRINTA(9,5), "Is the printing to be in "R$; I$"A"N$; I$" lphabetic or in ";
2010 PRINTR$; I$" Z"N$; I$" ip Code sequence ? ";
2020 FL=-1:GOSUB80 :IFCF=1THENRETURNELSEIFCF<>0THEN2000 ELSEQ$=FNUC$(IN$)
2030 IFQ$<>"A"ANDQ$<>"Z"THEN2000 ELSEQ=INSTR("AZ",Q$)-1
2040 S0=0:S1=0:S2=0:S3=0:S4=0:S5=0:S6=0:S7=0:S8=0
2050 PRINTO(12,20), R$; I$"C"N$; I$" omplete file or "R$; I$"S"N$; I$" elected records
     7 ";
2060 FL=-1:GOSUB80
                    :IFCF=1THENRETURNELSEIFCF<>ØTHEN2Ø5Ø ELSESR$=FNUC$(IN$)
2070 IFSR$<>"C"ANDSR$<>"S"THEN2050 ELSERETURN
2080 GOSUB2800 :GOSUB490
2090 PRINTA(R-1,0),"Options ( "R$;I$"E"N$;I$"qual to, "R$;I$"G"N$;I$"reater than
2100 PRINT"or "R$;I$"L"N$;I$"ess than )";:FORI=RTOR+13:PRINTa(I,C-2),CHR$(149);:
        NEXT
2110 RETURN
2120 IX=1
2130 SF=0:0NIXGOSUB2150 ,2190 ,2230 ,2270 ,2310 ,2350 ,2390 ,2430 ,2470
2140 ONCF+1GOTO2130 ,2520 ,2520 ,2130 ,2130 ,2130
2150 PRINTa(R,3), ::FL=-1:GOSUB290 :GOSUB90
2160 S0=INSTR("EGL", FNUC$(IN$)):IFS0=0ANDCF=0THENPRINTCHR$(8);:GOTO2150
2170 IFCF=0THENGOSUB980 :GOSUB2510 :IFSF<>0THENS0=0:PRINTA(R;3);" ";:RETURN
        ELSERETURN
2180 IFCF=40RCF=5THENIX=2:RETURNELSERETURN
2190 PRINTa(R+1,3),;:FL=-1:GOSUB290 :GOSUB90
2200 S1=INSTR("EGL", FNUC$(IN$)):IFS1=0ANDCF=0THENPRINTCHR$(8);:GOTO2190
2210 IFCF=0THENGOSUB1000 :GOSUB2510 :IFSF<>0THENS1=0:PRINTa(R+1,3)," ";:RETURN
        ELSERETURN
2220 IFCF=40RCF=5THENIX=3ELSEIFCF=3THENIX=1:RETURNELSERETURN
2230 PRINTa(R+2,3),;:FL=-1:GOSUB290 :GOSUB90
2240 S2=INSTR("EGL",FNUC$(IN$)):IFS2=0ANDCF=0THENPRINTCHR$(8);:GOTO2230
2250 IFCF=0THENGOSUB1030 :GOSUB2510 :IFSF<>0THENS2=0:PRINTa(R+2,3)," ";:RETURN
        ELSERETURN
2260 IFCF=40RCF=5THENIX=4ELSEIFCF=3THENIX=2:RETURNELSERETURN
2270 PRINTA(R+3,3),;:FL=-1:GOSUB290 :GOSUB90
2280 S3=INSTR("EGL", FNUC$(IN$)):IFS3=0ANDCF=0THENPRINTCHR$(8);:GOTO2270
2290 IFCF=0THENGOSUB1060 :GOSUB2510 :IFSF<>0THENS3=0:PRINTa(R+3,3)," ";:RETURN
        ELSERETURN
2300 IFCF=40RCF=5THENIX=5ELSEIFCF=3THENIX=3:RETURNELSERETURN
2310 PRINTA(R+4,3),;:FL=-1:GOSUB290 :GOSUB90
2320 S4=INSTR("EGL",FNUC$(IN$)):IFS4=0ANDCF=0THENPRINTCHR$(8);:GOTO2310
2330 IFCF=0THENGOSUB1090 :GOSUB2510 :IFSF<>0THENS4=0:PRINTO(R+4,3)," ";:RETURN
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2340 IFCF=40RCF=5THENIX=6ELSEIFCF=3THENIX=4:RETURNELSERETURN
2350 PRINTa(R+5,3),;:FL=-1:GOSUB290 :GOSUB90
23AØ S5=INSTR("EGL",FNUC$(IN$)):IFS5=ØANDCF=ØTHENPRINTCHR$(8);:GOTO235Ø
2370 IFCF=0THENGOSUB1120 :GOSUB2510 :IFSF<>0THENS5=0:PRINTA(R+5,3)," ";;RETURN
       ELSERETURN
2380 IFCF=40RCF=5THENIX=7ELSEIFCF=3THENIX=5:RETURNELSERFTURN
2390 PRINTa(R+6,3),;:FL=-1:GOSUB290 :GOSUB90
2400 SA=INSTR("EGL", FNUC$(IN$)):IFS6=0ANDCF=0THENPRINTCHR$(8);:GOT02390
2410 IFCF=0THENGOSUB1150 :GOSUB2510 :IFSF<>0THENS6=0:PRINTO(R+6,3)," ";:RETURN
       ELSERETURN
2420 IFCF=40RCF=5THENIX=8ELSEIFCF=3THENIX=6:RETURNELSERETURN
2430 PRINT@(R+7,3),;:FL=-1:GOSUB290 :GOSUB90
2440 S7=INSTR("E";FNUC$(IN$)):IFS7=0ANDCF=0THENPRINTCHR$(8);:GOTO2430
2450 IFCF=0THENGOSUB1180 :IFE7=0THENS7=0:PRINTa(R+7,3)," ";:RETURNELSERETURN
2460 IFCF=40RCF=5THENIX=9ELSEIFCF=3THENIX=7:RETURNELSERETURN
2470 IFM8=0THENIX=8:RETURNELSEPRINTa(R+13,3),;:FL=-1:GOSUB290 :GOSUB90
2480 S8=INSTR("EGL",FNUC$(IN$)):IFS8=0ANDCF=0THENPRINTCHR$(8);:GOTO2470
2490 IFCF=0THENGOSUB1300 :GOSUB2510 :IFSF<>0THENS8=0:PRINTa(R+13,3)," ";:RETURN
       ELSERETURN
2500 IFCF=3THENIX=8:RETURNELSERETURN
2510 IFWE=1ANDINs=MIDs(Ss,1,ABS(FL))THENPRINTMIDs(Bs,1,ABS(FL));
       MID$(F$,1,ABS(FL));:SF=1:RETURNELSERETURN
2520 RETURN
2530 PRINTA(21,15),"Press "R$" F1 "N$" to exit to MENU or "R$" F2 "N$;
2540 PRINT" to start printing."; RETURN
2550 I=LEN(CX$)
2560 IFMID$(CX$,I,1)=" "ANDI>1THENI=I-1:GOTO2560
2570 CX$=LEFT$(CX$,I):RETURN
258Ø IFLEFT$(CZ$, LEN(CY$))=CY$THENRETURNELSERS=1:RETURN
2590 IFLEFT$(CZ$,LEN(CY$))>CY$THENRETURNELSERS=1:RETURN
2600 IFLEFT$(CZ$,LEN(CY$))<CY$THENRETURNELSERS=1:RETURN
2610 CX$=CY$:GOSUB1570 :GOSUB2550 :CY$=CX$:CX$=CZ$:GOSUB1570 :CZ$=CX$
2620 ONSZGOSUB2580 ;2590 ;2600 :RETURN
2630 GOSUB2880
2640 PRINTO(23,35), R$" PRINTING "N$;
2650 FORSR=1TOTN-1:RS=0
2660 J=V(SR,Q):IFSGN(J)=-1THEN2780
2670 GOSUB680 : IFSR$="C"THEN2770
2680 IFSØ<>0THENSZ=S0:CY$=E0$:CZ$=D0$:GOSUB2610 :IFRS=1THEN2780
2690 IFS1<>0THENSZ=S1:CY$=E1$:CZ$=D1$:G0SUB2610 :IFRS=1THEN2780
2700 IFS2<>0THENSZ=S2:CY$=E2$:CZ$=D2$:GOSUB2610 :IFRS=1THEN2780
2710 IFS3<>0THENSZ=S3:CY$=E3$:CZ$=D3$:GOSUB2610 :IFRS=1THEN2780
2720 IFS4<>0THENSZ=S4:CY$=E4$:CZ$=D4$:GOSUB2610 :IFRS=1THEN2780
2730 IFS5<>0THENSZ=S5:CY$=E5$:CZ$=D5$:G0SUB2610 :IFRS=1THEN2780
2740 IFS6<>0THENSZ=S6:CY$=E6$:CZ$=D6$:GOSUB2610 :IFRS=1THEN2780
2750 IFS8<>0THENSZ=S8:CY$=E8$:CZ$=D8$:GOSUB2610 :IFRS=1THEN2780
2760 IFS7<>OTHENIF(E7ANDCVI(D7$))<>E7THEN2780
2770 GOSUB3330 : IFINKEY$=CHR$(1)THENSR=TN-1
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2780 NEXT:IFOP\$="P"THENLPRINTTAB(50)"** END OF LISTING **":SYSTEM"FORMS T":

RETURN

2790 GOT04500

325Ø L\$(LZ,4)=H6\$

3280 LPRINT"From: ";

3270 RETURN

3260 IFLZ=LA-1THENGOSUB3090 :LZ=0ELSELZ=LZ+1

2800 FORI=4T018:PRINTQ(I,0), CHR\$(23);:NEXT:RETURN 2810 PRINTa(2,H), "Current Label Setting: "Rs; 2820 ONLSGOTO2830 ,2840 ,2850 ,2860 ,2870 2830 PRINT" 2 1/2 by 1, "LA" Across "N\$; : RETURN 2840 PRINT" 3 1/2 by 1, "LA" Across "N\$; RETURN 2850 PRINT" 4 by 1 1/2; "LA" Across "N#; : RETURN 2860 PRINT" 4 by 2, "LA"Across "N\$;: RETURN 2870 PRINT" 5 3/4 by 3, "LA"Across "N#; : RETURN 288Ø LPRINTDT\$:LC=1 2890 LPRINT"Mailing List System for: ":LC=LC+1 2900 IFNA\$<>BL\$THENLPRINTTAB(25)NA\$:LC=LC+1 2910 IFTL\$<>BL\$THENLPRINTTAB(25)TL\$:LC=LC+1 2920 IFAD\$<>BL\$THENLPRINTTAB(25)AD\$:LC=LC+1 2930 IFCSZ\$<>BL\$THENLPRINTTAB(25)CSZ\$:LC=LC+1 2940 LPRINT" " 2950 IFQ=0THENLPRINT"Alphabetic ";ELSELPRINT"Zip Code "; 2960 LPRINT" sequence":LPRINT" ":LC=LC+3 2970 IFSR\$="C"THENLPRINT"Complete File":GOTO3080 ELSELPRINT"Selected Records": LC=LC+1 298Ø SW\$="=><" 2990 IFS0<>0THENLPRINT"First name "TAB(16)MID\$(SW\$,S0,1)" "E0\$:LC=LC+1 3000 IFS1<>0THENLPRINT"Last name "TAB(16)MID\$(SW\$,S1,1)" "E1\$:LC=LC+1 3010 IFS2<>0THENLPRINT"Co. name/tel.# "TAB(16)MID\$(SW\$,S2,1)" "E2\$:LC=LC+1 3020 IFS3<>0THENLPRINT"Street "TAB(16)MID\$(SW\$,S3,1)" "E3\$:LC=LC+1 3030 IFS4<>0THENLPRINT"City "TAB(16)MID*(SW*,S4,1)" "E4*:LC=LC+1 3040 IFS5<>OTHENLPRINT"State "MID\$(SW\$,S5,1)" "E5\$:LC=LC+1 3050 IFS6<>0THENLPRINT"Zip Code "TAB(16)MID#(SW#,S6,1)" "E6#:LC=LC+1 3060 IFS7<>0THENLPRINT"Categories =";:FORI=ØTO7:IF(2+I AND E7)THEN LPRINTI+1; :NEXT:LPRINT:LC=LC+1ELSENEXT:LPRINT:LC=LC+1 3070 IFS8<>0THENLPRINT"Remarks "TAB(16)MID\$(SW\$,S8,1)" "E8\$:LC=LC+1 3080 LPRINTSTRING\$(131, "="):LC=LC+1:RETURN 3090 IFLT<>0THENFORI=1TOLT:LPRINTCHR\$(10):NEXT 3100 IFLS=5THENGOSUB3280 :LM=21 3110 FORID=0TOLV:FORIA=0TOLZ 3120 LPRINTTAB(IA*LH+LM)L\$(IA,ID); 3130 NEXTIA:LPRINT:NEXTID 3140 FORI=1TOLB:LPRINTCHR\$(10):NEXT:LM=0:RETURN 3150 GOSUB700 :IFLEFT\$(H2\$,1)<"A"THENH=1ELSEH=0 3160 IFH0s=SPACEs(M0)THENLs(LZ,H)=H1s:GOT03200 3170 CXs=H0s:GOSUB2550 :H0s=CXs:CXs=H1s:GOSUB2550 :H1s=CXs 3180 IFLEN(HØ\$+H1\$)>LH-4THENHØ\$=LEFT\$(HØ\$,1)+"." 3190 L\$(LZ,H)=H0\$+" "+H1\$ 3200 CX\$=H4\$:GOSUB2550 :H4\$=CX\$:CX\$=H6\$:GOSUB2550 :H6\$=CX\$ 3210 IFH=0THENL\$(LZ,1)=H2\$ELSEL\$(LZ,0)=SPACE\$(LH-3) 3220 L\$(LZ,2)=D3\$ 3230 IFLEN(H4\$+D5\$+H6\$)>LH-5THENL\$(LZ;3)=H4\$+" "+D5\$:GOTO3250 3240 L\$(LZ,3)=H4\$+" "+D5\$+" "+H6\$:H6\$=SPACE\$(M6)

3700 GOSUB490 :GOSUB1740 :GOSUB1680

3720 PRINTA(21,10), "Enter Last Name or Company Name : ";

3710 GOSUB1970

3290 LPRINTTAB(7)NAs:IFTLs<>BLsTHENLPRINTTAB(7)TLs 3300 LPRINTTAB(7)AD\$:LPRINTTAB(7)CSZ\$ 3310 IFTL\$=BL\$THENLPRINTCHR\$(10) 3320 FORI=1TO7:LPRINTCHR\$(10):NEXT:LPRINTTAB(17)"To: ";:RETURN 3330 IFOPs="L"THEN3150 ELSELPRINTD1\$TAB(22)D0\$TAB(42)D2\$TAB(66)D3\$TAB(90)D4\$ TAB(114)D5\$TAB(120)D6\$ 334Ø LPRINTTAB(22)"Categories:";:FORI=ØTO7:IF(2→I AND CVI(D7\$))THENLPRINTI+1;: NEXTELSENEXT 3350 IFM8<>0THENLPRINTTAB(66) "Remarks: ";D8\$ELSELPRINT 3360 LPRINTSTRING\$(131,"-"):LC=LC+3:IFLC>57THENLC=0:SYSTEM"FORMS T" 3370 RETURN 3380 PRINTa(5,26), "BUSINESS MAILING LIST SYSTEM" 3390 PRINTA(8,0),UL\$; 3400 PRINTa(14,19), "Enter the name assigned to the system: "; :IFCF=1THEN4790 ELSEIFCF<>0THEN3400 ELSE SN\$=IN\$: 3410 FL=-7:GOSUB80 GOSUB930 3420 GOSUB720 :GOSUB730 :GOSUB380 3430 CLS:PRINTO(0,0), "Mailing List System for: ":PRINT 3440 IFNA\$<>BL\$THENPRINTTAB(25)NA\$ 3450 IFTL\$<>BL\$THENPRINTTAB(25)TL\$ 3460 IFAD\$<>BL\$THENPRINTTAB(25)AD\$ 3470 IFCSZ\$<>BL\$THENPRINTTAB(25)CSZ\$ 3480 PRINT@(7,0), "SYSTEM NAME : "SN\$ TAB(30) "FORMAT : "; 3490 IFFM\$="C"THENPRINT"Compressed";ELSEPRINT"Expanded"; 3500 PRINTTAB(55) "CAPACITY : "CP"Records"; 3510 PRINTA(8,17), R\$; N; N\$" active records currently in the system. "; 3520 PRINTa(9,0),UL#; MENU" 3530 PRINTO(11,30), "M A I N 354Ø R=13:C=18 3550 PRINTO(R,C),R\$;I\$"A"N\$;I\$" D D N E W R E C O R D S T O FILE"; 3560 PRINTa(R+2,C), R\$; I\$"F"N\$; I\$" I L E M A I N T E N A N C E"; 3570 PRINTO(R+4,C),R\$;I\$"P"N\$;I\$" R I N T L I S T I N G S"; 3580 PRINTa(R+6,C),R\$;I\$"L"N\$;I\$" A B E L P R I N T I N G"; 3590 PRINTA(R+8,C), R\$; I\$"F1"N\$; I\$" - E X I T F R O M PROGRAM"; 3600 FORI=1TO10:XX\$=INKEY\$:NEXT 3610 PRINTa(23,24), "Select desired function --> "; :IFCF=1THEN4780 ELSEIFCF<>0THEN3610 ELSEOP\$=FNUC\$(IN\$): 3620 FL=-1:GOSUB80 ON1+INSTR("AFPL",OP\$)GOSUB3640 ,3650 ,3680 ,4090 ,4180 3630 IFINSTR("AFPL",OP\$)=0THEN3610 ELSE3430 3640 RETURN 3650 CLS:R=5:C=4:GOSUB450 :GOSUB620 3660 IFN=3000THENCLS:PRINTa(11,25),R\$" SYSTEM IS FULL ("CP"RECORDS)"N\$;: FORT=1T08000:NEXT:RETURNELSEGOSUB460 :GOSUB490 :GOSUB1600 : GOSUB940 :IFCF=1THENRETURN 3670 J=TN:GOSUB910 :GOSUB1340 :N=N+1:GOSUB660 :GOSUB920 :TN=TN+1:EL\$=E1\$: IW=1:GOTO3660 3680 CLS:R=5:C=4:GOSUB1630 :GOSUB370 :H=5:GOSUB2810 3690 GOSUB490 :N1=TN-1:GOTO3830

3730 FL=-M1:GOSUB80 *IFCF=1THEN3750 ELSEIFCF<>0THEN3720 ELSEE1\$=IN\$ 3740 GOSUB1750 : IFCF=6THEN3720 3750 GOSUB1740 :GOSUB1690 3760 GOSUB1970

3770 PRINT@(20,5), R\$; I\$"S"N\$; I\$"earch"TAB(30)R\$; I\$"N"N\$; I\$"ext record" TAB(55)R\$;I\$"P"N\$;I\$"revious record";

3780 PRINTa(21:5):Rs;Is"U"Ns;Is"Pdate record"TAB(30)Rs;Is"D"Ns;Is"elete record" TAB(55)R\$;I\$"L"N\$;I\$"abel print";

3790 PRINTA(23,5), "Select command (by letter) or press "R\$" F1 "N\$" TO ";

3800 PRINT"exit to MAIN MENU --> ";

3810 FL=-1:GOSUB80 *IFCF=1THENRETURNELSEIFCF<>ØTHEN377Ø ELSEO\$=FNUC\$(IN\$)

3820 ON1+INSTR("NPSUDL";0\$)GOT03790 ,3830 ,3870 ,3700 ,3910 ,3970 ,4170

3830 GOSUB1740 :GOSUB1700

3840 IFN1+1=TNTHENN1=1ELSEN1=N1+1

3850 J=V(N1,0):IFSGN(J)=-1THEN3840

3860 GOSUB680 :GOSUB690 :GOSUB1850 :GOTO3750

3870 GOSUB1740 :GOSUB1700

3880 IFN1-1=0THENN1=TN-1ELSEN1=N1-1

3890 J=V(N1,0):IFSGN(J)=-1THEN3880

3900 GOSUB680 :GOSUB690 :GOSUB1850 :GOTO3750

3910 GOSUB1970 :GOSUB1740 :GOSUB1710

3920 GOSUB1980 :GOSUB940

3930 IFCF=1THENGOSUB690 :GOSUB1850 :GOTO3750

3940 IFE0s=D0sANDE1s=D1sANDE6s=D6sTHENGOSUB910 :GOSUB660 :GOSUB920 :GOTO3920

3950 GOSUB910 :JT=J:PF=1:PE=0:GOSUB1370 :PN=PT:PE=1:GOSUB1370 :PZ=PT:J=JT: $P(\emptyset) = -ABS(J)$

3960 GOSUB1450 :GOSUB660 :GOSUB1750 :IW=1:GOSUB920 :GOTO3920

3970 GOSUB1970 :GOSUB1740 :GOSUB1720

3980 PRINTa(21,20),R\$" DELETE "N\$" requested. Approve (Y/N) ? ";

3990 GOSUB270 :IFCF=1THEN3750 ELSEIFCF<>0THEN3980

4000 IFIN="N"THEN3750 ELSEGOSUB4050

4010 FORNX=1TOTN-1:IFABS(V(NX,1))=JTHENV(NX,1)=-J:NX=TN-1:NEXTELSENEXT

4020 FORNX=1TOTN-1:IFABS(V(NX,0))=JTHENV(NX,0)=-J:NX=TN-1:NEXTELSENEXT

4030 N=N-1:F=F+1:IW=1:N1=NQ

4040 GOSUB490 :GOTO3830

4050 PRINTa(23,30), Rs" DELETION IN PROGRESS "Ns;

4060 E1\$=STRING\$(M1,127):E6\$=STRING\$(M6,127):NQ=N1-1

4070 JT=J:PF=1:PE=0:GOSUB1370 :PN=PT:PE=1:GOSUB1370 :PZ=PT:J=JT:P(0)=-ABS(J)

4080 GOSUB1450 :GOSUB660 :GOSUB920 :RETURN

4090 CLS:R=5:C=9:PRINTa(0,30), "PRINT LISTINGS";:GOSUB370 :IFFP=1THENRETURN

4100 PRINTa(3,0), UL\$; : PRINTa(19,0), UL\$;

4110 GOSUB2000 : IFCF=1THENRETURN

4120 IFSR\$="S"THENGOSUB2080 :GOSUB2530 :GOSUB2120 :IFCF=2THENGOSUB2630 :RETURN ELSERETURN

4130 GOSUB2530

4140 QPs=INKEYs:IFQPs<>CHR\$(1)ANDQP\$<>CHR\$(2)THEN4140

4150 IFQPs=CHRs(2)THENGOSUB2630

4160 RETURN

4170 GOSUB1740 :GOSUB1730 :LZ=0:LV=LD:GOSUB3150 :GOSUB4500 :GOTO3750

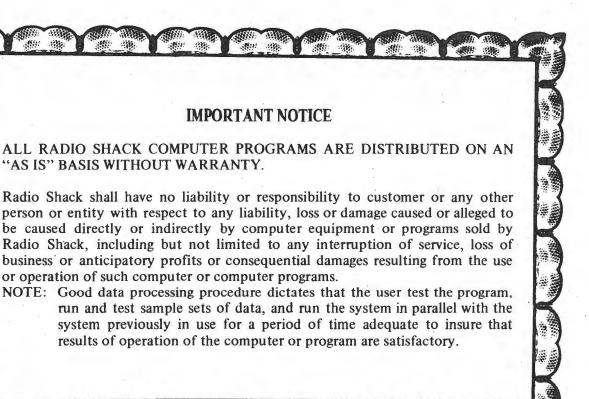
4180 CLS:R=5:C=9:PRINT@(0,31), "LABEL PRINTING";:GOSUB370 :IFFP=1THENRETURN

4190 PRINTa(3,0), UL\$; :PRINTa(19,0), UL\$;

```
4200 GOSUR2800 :H=15:GOSUR2810 :PRINTa(5,33), "FUNCTION MENU";
4210 PRINTO(7,25), R$; I$"P"N$; I$" rint Labels from File";
4220 PRINTA(9,25), Rs; Is "R"Ns; Is "eturn Address Label Printing";
4230 PRINT@(11,25),R$;I$"S"N$;I$"elect Label Size";
4240 PRINTO(13,25), Rs; Is"A"Ns; Is"lign Printer";
4250 PRINTa(15,25), R$; I$"F1"N$; I$" - Return to MAIN MENU";
4260 PRINTa(18,25), "Select function --> ";
                                      :IFCF=1THENRETURNELSEIFCF<>ØTHEN426Ø ELSEOL$=FNUC$(IN$)
4270 FL=-1:GOSUB80
4280 ON1+INSTR("PRSA", OL$) GOSUB4300 ,4310 ,4380 ,4510 ,4740
4290 GOSUB1970 :GOTO4200
4300 RETURN
4310 GOSUB2800 :GOSUB2000 :IFCF=1THENRETURN
4320 IFSR$="S"THENGOSUB2080 :GOSUB2530 :GOSUB2120 :GOTO4360
4330 GOSUB2530
4340 QP$=INKEY$:IFQP$<>CHR$(1)ANDQP$<>CHR$(2)THEN4340
4350 CF=ASC(QP$)
4360 IFCF=2THENLZ=0:LV=LD:GOSUB2640
4370 RETURN
4380 GOSUB2800 :PRINTa(10,25), "HOW MANY LABELS (1 TO 999) ? ";
4390 FL=-3:GOSUB80 :IFCF=1THENRETURNELSEIFCF<>0THEN4380
4400 IFIN$<"1"ORIN$>"999"THEN4380 ELSELQ=VAL(IN$)
4410 GOSUB2530
4420 QP$=INKEY$:IFQP$<>CHR$(1)ANDQP$<>CHR$(2)THEN4420 ELSEIFQP$=CHR$(1)THEN
               RETURN
4430 LZ=0:LV=LD
4440 FORLR=1TOLQ:IFLS=5THENGOSUB3280 :FORI=1TO7:LPRINTCHR$(10):NEXT:GOTO4490
4450 IFTL$<>BL$THENL$(LZ,0)=NA$ELSEL$(LZ,0)=BL$:L$(LZ,1)=NA$:GOTO4470
44601 + 1 + (1.7 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1
447Ø L$(LZ,2)=AD$:L$(LZ,3)=CSZ$:L$(LZ,4)=BL$
4480 IFLZ=LA-1THENGOSUB3090 :LZ=0ELSELZ=LZ+1
4490 NEXT
4500 IFLZ<>0THENLZ=LZ-1:GOSUB3090 :RETURNELSERETURN
4510 GOSUB2800
4520 PRINTO(5,22), "Dimensions" TAB(45) "Number Across"
4530 PRINTTAB(22)"-----"TAB(45)"-----
4540 PRINTO(7,19), R$; I$"A"N$; I$" - 2 1/2 by 1"TAB(45)R$; I$"1"N$; I$; R$; I$"2"N$;
               I$;R$;I$"4"N$;I$;R$;I$"5"N$;I$
4550 PRINTA(9,19),R$;I$"B"N$;I$" - 3 1/2 by 1"TAB(45)R$;I$"1"N$;I$;R$;I$"2"N$;
               I$;R$;I$"3"N$;I$
4560 PRINTO(11,19), R$; I$"C"N$; I$" - 4 by 1 1/2"TAB(45)R$; I$"1"N$; I$; R$; I$"2"N$;
               I$;R$;I$"3"N$;I$
4570 PRINTO(13,19),Rs;Is"D"Ns;Is" - 4 by 2"TAB(45)Rs;Is"1"Ns;Is;Rs;Is"2"Ns;Is;
               R$; I$"3"N$; I$
4580 PRINTO(15,19), R$; I$"E"N$; I$" - 5 3/4 by 3"TAB(45) R$; I$"1"N$; I$
4590 PRINTa(17,19), "Select Dimension --> ";
4600 FL=-1:GOSUB80 :IFCF=1THENRETURNELSEIFCF<>0THEN4590ELSEINs=FNUCs(INs)
4610 LS=INSTR("ABCDE", IN$):IFLS=0THEN4590
4620 HM$="How many across ? ":ONLSGOTO4630 ,4650 ,4670 ,4690 ,4710
4630 PRINTa(17,45), HM$;:FL=-1:GOSUB80 :IFCF<>0THEN4630 ELSELA=INSTR
               ("12345", IN$)
```

4640 IFLA=00RLA=3THEN4630 ELSELD=4:LH=26:LT=0:LB=1:G0T04720

- 4650 PRINTa(17,45), HM\$;:FL=-1:GOSUB80 :IFCF<>0THEN4650 ELSELA=INSTR("123", IN\$)
- 4660 IFLA=0THEN4650 ELSELD=3:LH=36:LT=1:LB=1:G0T04720
- 4670 PRINTO(17,45), HM#;:FL=-1:GOSUB80 :IFCF<>0THEN4650 ELSELA=INSTR("123", IN#)
- 4680 IFLA=0THEN4670 ELSELD=3:LH=41:LT=2:LB=3:GOT04720
- 4690 PRINTa(17,45), HM\$;:FL=-1:GOSUB80 :IFCF<>0THEN4690 ELSELA=INSTR("123", IN\$)
- 4700 IFLA=0THEN4690 ELSELD=3:LH=41:LT=4:LB=4:GOT04720
- 4710 LA=1:LD=3:LH=38:LT=1:LB=2:GOTO4720
- 4720 PRINTa(2,0), CHR\$(23); GOSUB2810 : IW=1:RETURN
- 4730 RETURN
- 4740 LZ=LA-1:LV=LD:FORI=ØTOLZ:FORJ=ØTOLV
- 4750 L\$(I,J)=STRING\$(LH-3,"X")
- 4760 NEXTJ: I
- 4770 GOSUB3090 : RETURN
- 4780 CLOSE: IFIW=1THENGOSUB1530 : CLOSEELSECLOSE
- 4790 CLS:PRINTa(11,33),Rs" END OF PROGRAM "Ns:PRINTa(20,0),;
- 4794 GOTO4800
- 4795 XX=USR3(0)
- 4800 CLEAR100:SYSTEM



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