

COMPUTE!'s
Personal
Accounting
Manager
for the
Commodore 64
and 128

Roland A. Frechette

Manage your finances with your Commodore 64 or 128 running in 64 mode. Thirteen menu-driven programs for the home and office that allow you to create, review, update, and document a successful financial strategy.



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Foreword

A good accounting system must be simple, understandable, reliable, and accurate. It should also provide information quickly. *COMPUTE!'s Personal Accounting Manager for the Commodore 64 and 128* is a computerized, cash-basis accounting system for individuals and small businesses, and it meets those standards.

If you have a Commodore 64 (or a 128 using 64 mode) and a disk drive, Personal Accounting Manager (PAM) can give you control of your finances. It generates onscreen reports of income, expenses, investments, property, liabilities, and assets. And with the right equipment, you can print these reports and keep them in a notebook. Each chapter of this book provides the details for a specific accounting subject and the associated computer routine. You don't have to be experienced in accounting practices to use PAM effectively.

PAM consists of 13 major routines clustered around a central menu. It's simple to use and the text is easy to follow. But using Personal Accounting Manager doesn't mean you should throw away your pencils, paper, and calculator. Making financial decisions involves lots of doodling. The program does the adding, subtracting, and report preparation—all of the work—and leaves you free to think, plan, contemplate, and evaluate.

By using PAM you will learn more about where your money goes, and you may be able to make better financial decisions since you can base your decisions on accurate, reliable information. Providing you with that information is what PAM is all about.

The program listings are in a special section, and "The Automatic Proofreader" is there to help you type them in correctly. You can enter the programs yourself, or if you prefer you can purchase a PAM program disk. Use the coupon in the back of this book or call toll-free 800-334-0868 (in North Carolina, dial 919-275-9809).

If you've ever run out of money before you run out of month, you should get to know PAM. It could be just what you need to take control of your finances and put your Commodore 64 to work for you.



Preface

The program provided by this book is a complete, computerized accounting system. *COMPUTE!'s Personal Accounting Manager* presents 13 routines interconnected by a Main Menu. Best of all, no previous accounting knowledge is required.

The book and program are written for homemakers and small-business owners, and avoid technical accounting or computer jargon. Because operation of the system is completely menu driven, only routine computer operations are required.

With PAM, you enter your accounting data only one time. Then, any part of the system can use the data as needed, without further aid from you. PAM can produce many accounting reports, some of which are unique to this system. For example, one report tells you how much money you need at the beginning of any month of the year in order to meet your obligations for the rest of the year. Since, in some months, expenses are expected to exceed income, you may want to save in advance. Figured on paper, this would require considerable trial and error, but PAM does it all for you, quickly and automatically.

I hope you will enjoy using this program as much as I've enjoyed writing it. My sincere thanks and appreciation to my patient and loving wife, Lucille, who has seen little of me these many months.



Introduction

The Personal Accounting Manager (PAM) uses the cash-basis accounting method, which is both accurate and easy to use. Although this accounting system requires no prior knowledge of accounting, it isn't considered inferior to the accrual method, which big businesses generally use. The cash-basis system is the one the Internal Revenue Service assumes applies to everyone. More than 40 state governments in the United States use it. Perhaps you should, too, especially since PAM is willing to help.

Here are the fundamental principles of cash-basis accounting:

- Income isn't income until you can put it into a bank account or into your pocket, which PAM calls the CASH Account. (Three letters capitalized represent codes and are explained in Chapter 1.)
- All expenditures are made by CHECK or CASH; they are recorded only when actually paid. Credit purchases don't count until you pay with a check or cash.

The chapters that follow discuss these two principles in greater detail and provide examples and exceptions. Remember that you should be guided by these principles whenever you have to decide how to handle an unusual situation.

Hardware Requirements

This program was written exclusively for the Commodore 64 computer. (It will also function on a Commodore 128 in 64 mode.) **It requires a disk drive and disks.** You should also have a binder to keep your reports in. A printer helps, too, but isn't required.

Speaking of printers, PAM has been tested on some models made by Gemini, Commodore (1525 and MPS801), Okidata, Epson, and Brother; it should work fine with any ASCII-type printer connected to your computer with a Centronics Parallel-type interface *which also emulates Commodore graphics*. If your printer/interface combination doesn't fully support Commodore graphics, see the section "Printer Problems" below.

The Program

The Personal Accounting Manager consists of a Main Menu and 13 support routines. The title will be in all capital letters when it refers to the support routines; individual selections from these routines will be initially capitalized. These modules are classified into five categories:

PERSONAL DATA	Routines that set up
BACK-UP FILES	and maintain the system
INCOME	Routines that input, correct,
EXPENSE	and manipulate accounting
ADJUSTMENTS	data
PLANNED INCOME	Routines that help
PLANNED EXPENDITURES	you prepare a budget
ACCOUNT BALANCES	Routines that
INVESTMENTS	keep track of your
PROPERTY	assets
UNPAID BILLS	and liabilities
STMNT OF I&E	Routines that provide
BALANCE SHEET	the basic reports

PERSONAL DATA allows you to create your own lists of Type of Income, Disposition of Income codes, From Whom Income is Received records, and Expense Accounts. It allows you to customize your reports and make the system personal. Once you've established these lists and codes, you won't need to do them again. The examples in the book will make setting up these lists easy. Use the BACK-UP FILES routine at the end of every month (or more often) to make a copy of your accounting records for safekeeping. *Don't rely on having only one copy of your accounting data.*

The INCOME and EXPENSE routines permit you to record, correct, or delete items of income or expense. The ADJUSTMENTS routine is in two parts: Adjustments and Transfers. Use Adjustments to change records involving items that aren't strictly income or expense (an income tax refund, for instance). Use Transfers to move money from one income account to another.

PLANNED INCOME and PLANNED EXPENDITURES help you predict your income and control your expenditures. These routines make up your budgeting system; they set up your whole financial plan. They also allow you to compare

planned versus actual receipts or expenditures directly so that you can see how you're doing.

ACCOUNT BALANCES, INVESTMENTS, PROPERTY, and UNPAID BILLS are record-keeping and calculation routines. ACCOUNT BALANCES does what its title suggests; PAM uses it for generating reports. INVESTMENTS provides you with the information you need to evaluate your securities portfolio and make buy/sell decisions. PROPERTY keeps a record of your real estate, appliances, household furnishings, and personal items of value. Such a list is of inestimable value in the event of loss. UNPAID BILLS keeps track of what you owe and to whom.

Finally, the last group provides you with the reports you would expect from a professional accounting system. STMT OF I&E is your Profit and Loss Statement. It compares your income to your expenses and tells you whether you have a surplus or a deficit for the period covered by the report. BALANCE SHEET summarizes your total financial condition and calculates the bottom line—your net worth.

Develop a Method

Since you record your accounting transactions only once, it is essential that you develop a routine for regularly posting entries. This guards against incorrect, duplicate, or omitted entries. Here are some recommendations:

- Keep a binder containing printouts of your standard lists and codes. Even though this information can be put on your monitor at any time, you will find it faster and easier to look them up in your binder.
- As with all computer programs, absolute consistency is a must. Put copies of reports in your loose-leaf binder as they are prepared. If you don't have a printer, make hand-written copies from the displays on the screen. You can then copy many repeat entries directly.
- Use hard copies of PLANNED INCOME and PLANNED EXPENDITURES as checklists of expected income and expenses for the month. Write the actual receipts/expenses on these until you can enter them into the system—then check them off.

Typing the Routines

Using PAM is easy. First, however, you must have a program to use. Read "A Beginner's Guide to Typing In Programs," "How to Type In Programs," and "The Automatic Proof-reader" in the "Program Listings" chapter before you type in the programs.

Needless to say, save the routines *before running them*, using the procedure described in your disk drive manual. This is especially important with the loader program named PAM. This is machine language, and any typing errors will cause the computer to lock up. If that happens, all of your typing will be lost. *SAVE first—RUN later!*

The Order of Things

Some programs must be typed first, others are needed early, and still others can be typed later. The following order is recommended.

First, type in the three absolutely necessary routines:

AUTOMATIC PROOFREADER
PAM
PERSONAL DATA

PAM gives you the Main Menu, and PERSONAL DATA is needed by every routine in the system.

Type in these routines to get the system going.

INCOME
EXPENSE
ADJUSTMENTS
PLANNED INCOME
PLANNED EXPENDITURES
BACK-UP FILES

Finally, type these:

ACCOUNT BALANCES
UNPAID BILLS
STMNT OF I&E
INVESTMENTS
PROPERTY
BALANCE SHEET

These routines will all fit on the same disk if you type them exactly as listed.

Using the System

To begin, simply insert the disk containing the program (called the program disk) into your disk drive and type

LOAD "PAM,"8

Then press RETURN. When the disk drive stops, type RUN and press RETURN. The Main Menu will appear on the screen. Select the routine that you want to work with, and the computer will load it and make it ready for you to use.

Each routine has a menu of its own to guide you through its use. The last item on these menus is always the Main Menu. Making that selection clears the computer of the routine you've been using and returns you to the Main Menu where, if you wish, you can make another selection. When you're finished using the program, remove and store the program and data disks in a safe place and then shut off your computer.

Warnings and Limitations

Here are some dos and don'ts:

When asked for the month or day, type it as a two-digit number (01 for January, for example).

Keep the data for each month separate. Don't put February's expenses in with January's.

Always give amounts in the form of X.XX (3.59, 0.98, and so on). A minimum of three digits plus the decimal is required for all amounts.

Individual amounts are limited to 9999.99. Break up larger amounts and enter them separately.

Data is stored on the disk as files. When you start up the system, there will be many unestablished files on the data disk. In these cases, the red light on the disk drive will flash on and off as it searches for a file that isn't there. Ignore it. If a file does exist, however, then failure of the program to read it may be caused by a misalignment of your disk drive or some other hardware problem. Have your equipment checked by a reputable service center. Since misalignment problems usually develop progressively, a realigned disk drive will sometimes not read previously recorded files. If you have printed copies of your accounting data (in the form of reports), you can reenter the data and recreate any file that won't load or run properly.

The computer will let you know what activity is going on—with one possible exception. This exception, called *garbage collection*, will occur from time to time while PAM is running. The computer throws out garbage (unneeded information) when it feels like it, even when it's printing. Activity will appear to have ceased forever. When this happens, you may think your computer has died, but be patient. It will recover and go on with its work in a minute or two.

If Something Goes Wrong

If you've used a computer much you know that mistakes happen. Here are some suggestions on recovering with a minimum of effort.

If you mistakenly select the Correct function, simply select any item on the list and press the RETURN key for each data item on the screen. This is a "no change" option which will eventually get you back to the menu.

You can escape if you mistakenly select the Delete function. The required key will be given on the screen.

No computer program is foolproof. A user's carelessness can cause loss of data. This is one reason for keeping a backup disk and making printed copies before throwing away receipts or other records. For example, Chapter 2 describes the disastrous effects of using the Start New Month routine when a file for that month already exists. Another mistake is pressing the Add New item option when you have no data to add. Sometimes you can add a fictitious item, then delete it. But there will be times when you will have no choice but to use one of the escape methods described below. It's better to be careful and read the instructions on the screen every time, no matter how monotonous they may become.

If you somehow get stuck in the program with the cursor still flashing on the screen, hold down the RUN/STOP key and tap the RESTORE key sharply to clear the screen and print READY. Then type RUN and press the RETURN key. Note that all data entered during the session will be lost and must be reentered.

If you make many corrections and deletions in a row, you might get an OUT OF MEMORY error indication on the screen. In most cases you're not really out of memory, but the computer thinks so, and you'll have to humor it. Some of the changes you're making may be lost. To get going again, type

RUN and press RETURN. In a few seconds, the routine you've been working with will restart. Go to the display option and check to see which of your changes haven't been recorded.

In the unlikely event that typing RUN doesn't get you going again or if the problem keeps occurring, type SYS51000 and press RETURN. This will display the Main Menu from which you can proceed as usual. Again, check the display for the routine you were using to verify that all your data is there and that any changes or deletions have in fact been made.

Finally, as a last resort, type SYS64738 and press RETURN. This resets the computer (it will give you that squeezed, hurt look but don't worry—you didn't hurt it). Now type SYS51000, press RETURN, and proceed.

Printer Problems

As mentioned earlier, the PAM routines have been tested with several printers. Nevertheless, you may encounter problems either because of the way your printer is set up or because it isn't *fully* compatible. Regardless of what printer you have, though, you should type in the programs *exactly* as listed in the "Program Listings" chapter, using "The Automatic Proof-reader."

If you then find that your printer doesn't print Commodore graphics properly, you can replace the Commodore key-T and SHIFT-D characters (both of which draw lines) with hyphens. Likewise, substitute normal characters for any other graphics characters that don't work.

Another difficulty in using a printer with a Commodore 64 is that there is no *agreed-upon* standard for transmitting data from the 64 to a printer. Even Commodore printers vary. Also, several companies have designed interfaces that allow you to connect the 64 to a non-Commodore printer—but these vary greatly as well.

Still, PAM will work fine with most printers. If you've had much experience with your printer, you probably already know how to make it print acceptably. And the manual is always there with the information you need.

Defining printer modes is a common technique used by interface manufacturers to allow you to control your printer. One mode would be without linefeeds, for example, and another would add them, so your printout would look like you want it to. These modes are often accessed by the third (last)

number in an OPEN statement. For example, to open a CARDCO +G interface with linefeeds, you could use

OPEN 4,4,1

But other printers use the 1 to indicate such functions as formatted printing (the Star/Gemini SG-10C, for example, which has its own built-in interface). If you want to succeed with some printers, you'll need to read your printer and interface manuals, then change the lines in the programs which contain OPEN statements so that they will work with your setup. This isn't a problem with PAM, it's not a problem with your computer, and it's probably not a problem with your interface. It's just that they aren't talking to each other in the way they expect.

Note: Before changing the correctly typed PAM programs, however, make sure that you have made copies of the originals. Test them without using the printer first, and remember that all of the PAM modules should be on one disk. See "Typing the Routines" above for more information.

Now that you've made it this far, this is a good time to type in the Automatic Proofreader and PAM (see the "Program Listings" chapter). You can put the Proofreader on any disk that has room on it—and it isn't very long. But you should put PAM on a freshly formatted disk. To format the disk, turn on the computer, disk drive, and monitor; then enter the following command and press RETURN:

OPEN 15,8,15,"N0:PAM MASTER DISK, FH"

When the drive stops whirring, enter the command

CLOSE 15

Don't forget to name the programs as indicated by their titles. It is probably easier to place PAM first on the accounting disk so that you can use **LOAD "*" ,8** to start the program.

The general form for saving these files on the Commodore 64 is

SAVE"0:FILENAME",8

A Special Bonus

Since some of the routines in PAM are lengthy, they are slow to load on the Commodore disk drive. But there is a cure for this waste of time. It's called "TurboDisk," and it has been

published in *COMPUTE!* magazine (April 1985), *COMPUTE!'s Gazette* magazine (July 1985), and in *COMPUTE!'s Commodore 64/128 Collection*. PAM doesn't conflict with TurboDisk, so you can greatly increase the speed of disk drive operations when using PAM. And TurboDisk works with many other programs as well.

To order a disk, book, or magazine copy of Personal Accounting Manager or TurboDisk, you can call toll-free 800-334-0868 (in North Carolina call 919-275-9809).



CHAPTER
ONE

Personal Data



Personal Data

This chapter is very important. PAM doesn't know the name of your bank, what you do with your money, or what kind of expenses you have. You must tell it these things by using this routine to create lists and codes (such as Types of Income or Expense Accounts) which you and PAM will then use to communicate with each other. This routine establishes your customized version of the Personal Accounting Manager.

To prepare for what lies ahead, you should get out your bank books, pay slips, and expense receipts, since you will need to copy names accurately. First, you'll type in your name, address, and the year. Next, you will categorize your income into type (pay, dividends, and so forth) and source (who pays you money), and identify where that income goes (bank, checking). Finally, using a list of your expenses, you will make up some expense accounts.

You might think this chapter will be boring. Nevertheless, as much as you would like to jump ahead and start recording your income and expenses, preparing financial reports, and so on, you cannot do so. At this time the computer can't understand you because it doesn't have the files required for the system to work. Before long, though, you will have PAM ready to go.

If you have a printer, put copies of the lists created by this program into a notebook. Even though this information can be displayed on your monitor at any time, it's much faster and easier to look it up in your notebook.

Getting Started

Personal Accounting Manager requires two disks, but you should use three: the program disk, a data disk, *and* a back-up disk. In this chapter, we're going to talk about the program disk and the data disk. Chapter 13 will discuss the back-up disk.

The program disk (also called the *PAM master disk*) is the disk on which you save the program routines as you type them (or the disk that you ordered with the program already on it).

Format a new disk which you will use to hold your accounting data for the year. This is the data disk. You can use

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any disk name and identification number that you wish. For example, a disk name of PAM DATA and an ID number of 85 (signifying the year 1985) is fine. Use a command like

OPEN15,8,15,"N0:PAM DATA,85":CLOSE15

Don't use the name BACK-UP or the ID number SHIFT-£2. These are reserved for the back-up disk.

When you've entered the PAM and PERSONAL DATA programs and have the data disk formatted and ready to go, insert the program disk into the disk drive and type

LOAD "PAM,"8

and press RETURN. When the disk drive stops, type RUN and press RETURN again. In a few seconds, the first screen of the Main Menu will appear:

PERSONAL ACCOUNTING MANAGER

- A. PERSONAL DATA
- B. INCOME
- C. EXPENSE
- D. ADJUSTMENTS
- E. ACCOUNT BALANCES
- F. INVESTMENTS
- G. PROPERTY
- H. NEXT PAGE

PRESS DESIRED LETTER

The second screen looks like this:

- I. UNPAID BILLS
- J. BALANCE SHEET
- K. STMNT OF I&E
- L. PLANNED INCOME
- M. PLANNED EXPENDITURES
- N. BACK-UP FILES
- O. FIRST PAGE

PRESS DESIRED LETTER

This menu is yellow with blue lettering. You will see it often and should recognize it when you do. Remember, it's called the Main Menu.

Note also that the computer routines listed on the Main Menu have the same name as the chapters in this book that explain how to use them. Press the A key to select item A, Personal Data. The computer will automatically load and run

this routine. When it's finished you will have to switch disks, so watch the screen for instructions.

The next menu that you will see is the Personal Data menu:

PERSONAL DATA

1. PERSONAL DATA
2. TYPES OF INCOME
3. DISPOSITION OF INCOME
4. FROM WHOM RECEIVED
5. SOURCES OF FUNDS
6. TYPE OF EXPENSE
7. EXPENSE ACCOUNTS
8. MAIN MENU

To establish your accounting system, progressively go down this menu, setting up your own personal lists and codes, one after the other, using the figures in this chapter as your guide.

Personal Data

Selecting Personal Data from this last menu will give you these choices:

PERSONAL DATA

1. ENTER/CHANGE DATA
2. VIEW PERSONAL DATA
3. VIEW LIST OF REPORTS
4. RETURN TO MENU

Here, on selecting Enter/Change Data, you will be asked to type in your name, street, city, state, zip code, and the year for this data disk. Press the RETURN key after each item. For example:

NAME: JOHN & JOAN SMITH
STREET: 123 MAIN STREET
CITY: ANYVILLE
STATE: S. T.
ZIP: 99999
YEAR: 1985

Note that there is no Correct or Change option available. Change is effected by starting all over again, but in so doing, all previously entered data is replaced. Just be careful here before you press the RETURN key.

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Selecting View Personal Data gives you a screen display of this data. If you have a printer, it will give you a cover sheet for your notebook of financial records (see Figure 1-1).

Figure 1-1. Sample Title Sheet

A rectangular box representing a title sheet. The text is centered and reads:

PERSONAL ACCOUNTING MANAGER

**JOHN & JOAN SMITH
123 MAIN STREET
ANYVILLE S.T.
99999**

1985

Item 3, View List of Reports, will display on the screen a list of all reports provided by this program. The list is in the form of a table of contents which you can use in your notebook (Figure 1-2). The page numbers shown are those printed on the reports to make filing and finding reports easy.

Figure 1-2. List of Reports

JOHN & JOAN SMITH
1985

LIST OF REPORTS

FINANCIAL CONDITION:

Balance Sheet	10
Account Balances (1 Jan).	20
Current Balances.	21
Value Household Goods	24
Value all Property.	25
Gain/Loss Summary (Stocks).	30
Unpaid Bills.	40

RESULTS FOR THE YEAR:

Planned Income.	110
Planned Expenditures.	120
Income for Year	130
Investments Income Summary.	140
Expense for Year.	150
Statement of Income & Expense	160

RESULTS BY MONTH (consists of the following reports for each month: Planned Income vs. Actual, Planned Expenditures vs. Actual, Income, Expense, and Statement of Income & Expense):

January	210
February.	220
March	230
April	240
May	250
June.	260
July.	270
August.	280
September	290
October	300
November.	310
December.	320

SUPPORTING STATEMENTS:

Account Balances by DIS category.	510
Income for Year by Type	520
Expense for Year by Type.	

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Not Deductible	532
Deductible	534
Other	536
Creditors	538

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Minimum Required Balance	550
Investments	
Bonds	600
Stocks	650
Other	700
Summary of Adjustments	800
Adjustments	810
Summary of Transfers	900
Transfers	910
Bank Statements	1000
Property Lists and Summaries	
Real Estate	2000
Household Goods	
Living Room	2100
Dining Room	2200
Kitchen	2300
Bathroom(s)	2400
Master Bedroom	2500
Bedroom No. 2	2600
Bedroom No. 3	2700
Attic	2800
Cellar/Garage/Shed	2900
Appliances	3000
Automobiles	4000
Personal Items	5000

Types of Income

Return to Menu does just that—returns you to the Personal Data menu where, continuing down the list, you would next select Types of Income. This menu now appears on the screen:

1. ENTER/CHANGE DATA
2. VIEW DATA
3. RETURN TO MENU

Enter/Change Data this time will give you the following options:

ENTER/CHANGE DATA

1. ADD
2. CORRECT
3. CHANGE
4. RETURN TO MENU

Types of Income are pay, interest, dividends, and so on. Figure 1-3 gives a sample listing. Selecting Add (item 1) and using Figure 1-3 as a guide, type in the names of income types that apply to you. It doesn't matter what order you type them, but when possible enter them in alphabetical order. PAM will automatically assign an item number to each one. You can specify up to nine types of income.

Figure 1-3. Standard Types of Income (Examples)

TYPES	INCOME
1	DIVIDEND
2	INTEREST
5	OTHER INCOME
6	PAY
3	PENSION
7	RENT INCOME
4	ROYALTIES

Selecting Correct or Change allows you to make a change in the name you've used to identify a type of income. PAM will ask you for the item number. If you don't know it, type 0, and the routine will save what you've done so far, then return to the menu where you can select View Data. Note the number of the item you wish to Correct/Change, then repeat the process. The item that you select will appear on the screen. Just retype the name the way you want it.

Disposition of Income

The disposition of income codes that you create by selecting Disposition of Income are the most important items in the system. These codes reflect where you put your income—in the bank or in your pocket. They allow PAM to log bank deposits automatically and they are used by many routines to separate accounting data, calculate bank balances, and develop reports. Use the sample listing in Figure 1-4 as a guide.

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Figure 1-4. Disposition of Income (Examples)

DIS	INCOME
BUS	BUSINESS
CAS	CASH ACCOUNT
CHE	CHECKING
CHR	CHRISTMAS CLUB
INV	INVESTMENTS
OTH	OTHER
RET	RETIREMENT PLAN
SAV	SAVINGS ACCOUNT

Simply type in a name, and PAM determines the DIS code. Disposition of Income codes consist of the first three letters derived from the name of banks, institutions, corporations, or names of accounts where you deposit your money for safekeeping. These are savings accounts, checking accounts, holiday clubs, and so on. You should set up a DIS code for each account. Nine DIS codes are possible, but two are required and two others are strongly recommended.

When you select Enter/Change Data, the Enter/Change Data menu we worked with in the previous section reappears. Select Add. PAM will ask you for information. Type

CASH ACCOUNT

and press RETURN. Establishing this DIS code is mandatory. PAM will ask

ANOTHER ITEM? (Y/N)

Answer Y (yes) and type

CHECKING ACCOUNT

Again press RETURN. The required DIS code for your checking account must start with the letters *CHE*. If you have your checking account at Cheap National Bank, you could use that name instead; otherwise, simply call it checking account.

Using Figure 1-4 as a guide, continue to type in names, keeping in mind that PAM uses the first three letters of each name as the DIS symbol. You can't use two DIS codes with the same three initial characters. If you have a savings account and a Christmas club at the same bank, only one can have the name of the bank; the other must be given a different name. Any name will do, but be careful that you don't duplicate the

first three letters of any name that you've already used. DIS codes must be unique for each account.

You should also establish the following two DIS codes: Investments and Other. The remaining five DIS codes are for your use.

From Whom Received

Item 4, From Whom Received, enables you to prepare a list of the names of banks, corporations, and so forth, who pay you money regularly. The From Whom list need not be limited to these names, however, and a name need not have been established on the list before you can properly log an income against it. This list simply insures that you will spell the names exactly the same way each time.

You are limited to 39 different names, and PAM will automatically assign an account number to each name. Figure 1-5 is a sample list.

Figure 1-5. From Whom List (Sample)

**STANDARD LIST OF FROM WHOM INCOME IS RECEIVED.
SPELL EXACTLY:**

16.	O
9.	O
5.	O
1.	AEP
2.	BELL OF PA
13.	BROKER
3.	BSN ED
4.	BSN ED PFD
12.	C/D BANK
19.	CHECKING ACCOUNT BANK
7.	GTE
8.	ILLINOIS BELL
6.	JONES MFG
10.	MOBIL
11.	OHIO EDISON
14.	PULLMAN
15.	RCA
20.	SAVINGS BANK
18.	SCOVILL
17.	SIGNAL

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If you receive more than one income from the same company, you could set up more than one From Whom code. Just come up with a name for each, allowing PAM to total these incomes separately:

JONES MFG (PAY)
JM-COMMISSIONS
JM-REIMBURSED EXPENSES

Sources of Funds

Item 5, Sources of Funds, presents you with the following display:

SOURCES OF FUNDS

WHEN LISTING AN EXPENSE, YOU WILL BE ASKED:

CHECK NO. OR CASH (CAS)?

IF PAYMENT IS BY CHECK TYPE CHECK NO., IF BY CASH TYPE 'CAS'. CREDIT CARD PURCHASES ARE NOT PAYMENTS AND ARE NOT ENTERED. SEE YOUR MANUAL.

This display is a reminder only—there is nothing you need to do here. You will recall that one of the fundamental principles of this system is that all expenditures are made by CHECK or CASH. To implement this, you use the INCOME routine (Chapter 2) and the Disposition of Income codes to deposit part of your income into the CASH account, some into the CHECKING account, and the rest elsewhere. You use the EXPENSE routine (Chapter 3) to charge the expenditure against either the CASH or CHECKING account as appropriate. The prompt is important because PAM will know to deduct the expenditure from the CHECKING account only if it sees a check number here.

Here's a review of the difference between Disposition of Income, From Whom Income is Received, and Source of Funds. From Whom Income is Received is the name of someone who has paid you money. Disposition of Income codes represent the name of an account or place where you deposit your money (temporarily or permanently), while Source of Funds is where you took the money from in order to pay an expense, CASH or CHECKING.

Type of Expense

Selecting 6, Type of Expense, will present you with this display:

STANDARD TYPES OF EXPENSE

TYPE EXPENSE

- 1 NOT INCOME TAX DEDUCTIBLE
- 2 INCOME TAX DEDUCTIBLE
- 3 OTHER
- 4 CREDITORS

Expense Accounts, which follow, are classified into these four categories. The Other category represents expenses about whose classification you are uncertain at the time the expense account is established (for example, some travel expenses may be deductible, others not). Classifying your expenditures in this way will help you when income tax time comes around.

There is nothing for you to do here, either. As with Sources of Funds, the above categories of Type of Expense are fixed, and the display is for information only.

Expense Accounts

When you select Expense Accounts, you will be given the Enter/Change Data menu discussed earlier. To establish your expense accounts or to Add, Correct, or Delete an account, select 1, Enter/Change Data, which will present you with this special menu:

ENTER/CHANGE DATA

1. NOT DEDUCTIBLE
2. DEDUCTIBLE
3. OTHER
4. CREDITORS
5. RETURN TO MENU

Using Figure 1-6 as a guide, establish those expense accounts that you think apply to you. Make up your own if you don't see what you want. There are no rules. When finished with one type, answer N to ANOTHER ITEM (Y/N)? Repeat the procedure, successively going down this menu one category at a time. In all cases, type the name only—the computer will automatically assign the expense account number.

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ONE

Figure 1-6. Expense Account (Sample)

STANDARD ACCOUNT NUMBER	
ACT NO.	EXPENSE
1.	NOT DEDUCTIBLE
6	ALLOWANCE-DAD
5	ALLOWANCE-MOM
11	ALLOWANCE-SON
27	APPLIANCES
23	BOWLING
7	ELECTRICITY
8	FOOD
9	FRATERNAL ORGANIZATIONS
26	FURNITURE
10	GASOLINE
12	HEAT/FUEL OIL
17	HOBBY
28	HOUSEHOLD GOODS
13	INSURANCE
14	LAUNDRY
4	LEGAL EXPENSE
30	LIFE INSURANCE
29	LOTTERY
15	MAGAZINES/BOOKS
19	POSTAGE
20	PROPANE GAS
1	RENT
21	REPAIRS-AUTO
22	REPAIRS-HOUSE
2	TAXES-FEDERAL INCOME
3	TAXES-FICA
16	TELEPHONE
24	TRAVEL
25	TV CABLE
18	WATER
2.	DEDUCTIBLE
60	CONTRIBUTIONS
61	INTEREST PAID
63	MEDICAL
69	MEDICAL INSURANCE
68	SAFETY DEPOSIT BOX
64	TAXES-PROPERTY
65	TAXES-SALES
66	TAXES-STATE
67	TRADE DUES
62	UNION DUES

3. OTHER
- 85 ACCOUNTING
 - 86 ADVERTISING
 - 87 CLOTHES
 - 88 COMPUTER BUSINESS
 - 89 ENTERTAINMENT
 - 96 EQUIPMENT-COMPUTER
 - 90 LICENSES
 - 91 MISCELLANEOUS
 - 95 OTHER
 - 92 REPAIRS-MISC
 - 93 TAXES-OTHER
 - 94 TOOLS
 - 112 HOUSEHOLD GOODS
4. CREDITORS
- 116 0
 - 103 AMERICAN EXPRESS
 - 102 DINERS CLUB
 - 106 EASTERN PROPANE
 - 118 EASY FINANCE COMPANY
 - 107 EXXON
 - 108 FILENE
 - 112 FIRST NATIONAL BANK
 - 109 FORTIER FUEL
 - 115 GLORIA STEVENS
 - 110 J C PENNEY
 - 105 K-MART
 - 111 LECHMERE
 - 101 MASTER-CHARGE BANK
 - 114 MOBIL
 - 113 MONTGOMERY WARD
 - 117 SEARS ROEBUCK
 - 104 SMITH'S FURNITURE STORE
 - 100 VISA BANK

NOTE THAT ACCOUNT NUMBERS LESS THAN 60 ARE NOT TAX DEDUCTIBLE. ACCOUNT NUMBERS BETWEEN 60 AND 84 ARE, AND THOSE ABOVE 85 ARE UNDETERMINED.

In Type 3, Other, be sure to establish an account named Other or Miscellaneous (or both) for use as general-purpose accounts, for minor incidentals, or for that once-a-year unusual expenditure. Remember that *to record an expenditure, you must use an established expense account*. If you are entering an expense and you don't see the right account, you can use Other or Miscellaneous temporarily—if you've set up the accounts in advance—and transfer the entry later.

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Account numbers have the following significance:

Account Numbers	Category
1-59	Not Deductible
60-84	Deductible
85-99	Other or unsure
100-139	Creditors

Not all reports display the Type of Expense identifying number. The above account numbering system makes it possible for you, in reviewing a list of your expenses, to tell the type of expense from the account number alone.

Why are Creditors considered as expense accounts?

Usually, creditors are listed under liabilities or *Accounts Payable*. Ordinarily, you would make two entries for such expenditures—one to accounts payable and another to the specific expense account involved. This is the accrual-basis, double-entry accounting system. You don't need this complication, so we charge the expense against the creditor directly because these are usually for large sums (furniture, expensive items). They will usually involve monthly payments, and so at the end of the year you know how much money you are paying to charge accounts. *No matter what system you are using, you should remember to record whom you buy expensive things from and how much money you pay to your creditors each year.*

Don't set up too many specialized expense accounts. Set up specific expense accounts for common, frequent, or substantial expenditures only. A good rule to follow is that if the expense isn't listed in your budget, then you probably shouldn't set up an account for it.

If you don't need an account any longer, use Correct or Change in the Enter/Change Data menu and change the account name to 0 (zero). However, the account isn't completely deleted because it may have been used to record an expenditure and to eliminate it completely would result in erroneous reports. The best time to delete an expense account is at the beginning of the year. Still, if you're certain that it hasn't been used this year, then you can completely eliminate this account by using the account number the next time you establish a new expense account. In this case, use the Change function instead of Add and type in the name of the new account. (This same procedure applies to Disposition of Income codes.)

Once established, these lists and codes may be viewed on your monitor. After selecting the category from the opening Personal Data menu, select View Data. Once it is on the screen, you will be given the printout option.

Setting Up the System for a Small Business

You can use this program for a small business if your business is principally a cash or credit-card business. Here are some ideas on how to set it up: In Types of Income and From Whom Income is Received, set up Sales in both places; if someone owes you money, that's an Account Receivable. Individuals don't have that problem, so there is no routine in this system to handle such things. Keep a record of your accounts receivable by hand in a separate journal. Record as Sales only when you're paid.

Also, in the PROPERTY routine (Chapter 7), use Household Goods to represent Plant Account. Again, keep a separate journal of your inventory and list the total sum value as one item using the Real Estate option. This will permit depreciation of your plant equipment, but not your inventory.

Other than that, you should have no trouble using this system for your business. One final thought: Small businesses are often individually owned. It is important that you separate the individual from the business—you can use this system for your personal accounting system and you can use this system for your business, but don't commingle the two. Set up two separate systems, each with its own data disk.

Reports

This routine will provide you with listings of your Types of Income, Disposition of Income, From Whom, Sources of Funds, Type of Expense, and Expense Accounts (including Creditors).

If you have a printer, always make hard copies. You can do so by selecting any of the View Data options and typing Y when asked HARD COPY (Y/N)?.

The routines print report numbers in the upper-right corners of the reports to help you to identify them. For the hard-copy version, this report number may also be used as a page number to help you file these reports logically.

And Next Year...

When creating a new data disk for next year, follow these steps:

- Format the new disk using standard disk commands.
- Transfer three files (PERSDATA, INCDATA, and EXPDATA) onto next year's disk by making a change to an item in each file. Note that only one item in each FILE must be changed—you don't need to retype all of your standard lists.
- Insert this year's data disk, then select PERSONAL DATA from the Main Menu. Remove the disk and insert the new data disk that you are creating for next year.
- Select Personal Data and enter again the name, street, and so on. This is to get to the last prompt which is YEAR?. With the new disk in the drive, type in the new year and PAM will create a PERSDATA file on the new disk.
- Next, select Type of Income, Enter/Change Data, then Correct. Asked what item to correct, type in the item number for an item you may have needed last year but don't need this year. If you have nothing to correct, type 1, then retype the item without change. This will create the INCDATA file on the new disk.
- After this, select Expense Accounts and then item 1, which will give you this menu:
ENTER/CHANGE DATA
1. NOT DEDUCTIBLE
2. DEDUCTIBLE
3. OTHER
4. CREDITORS
5. RETURN TO MENU
- Again, if you have an expense account that you think you won't need next year, select the proper category above and change it to 0. Otherwise, select Not Deductible, then the Enter/Change Data option, and finally item 2, Correct. Type 1 for the item number, and retype the indicated expense account title as shown without change. This will cause PAM to create the EXPDATA file on the new disk.
- Using PLANNED INCOME and PLANNED EXPENDITURES, review this year's budget against actual amounts. Then revise and put the new budget on the new disk using the procedures detailed in Chapters 11 ("Planned Income") and 12 ("Planned Expenditures").

- Using INVESTMENT, PROPERTY, and UNPAID BILLS routines in turn, make a "change" to save these data files onto the new disk.
- On January 1, use the ACCOUNT BALANCES routine to establish the first of the year balances on the new disk.

Your disk is now ready for the new year.



CHAPTER
TWO

Income



Income

Now that you've established your accounting system, you are ready to start recording your financial transactions. This chapter will describe how to record your income and will then show you what kind of income you receive, how much you get, and where you put it. Chapter 3 will cover expenses.

In this system, *income* means salary or wages, interest received (even if only recorded in your passbook and not actually paid), dividends, annuities, and capital gains and losses. In short, anything the Internal Revenue Service considers as income, you should consider as income, too, and use this routine to record it.

Even though the above list seems to cover pretty much everything, not all money received is income. The examples that follow and Chapter 4, "Adjustments," give some exceptions.

In recording your income you must use the Type of Income and Disposition of Income (DIS) codes that you established using the PERSONAL DATA routine described in Chapter 1. As you already know, the Type of Income codes classify your income into categories, while the DIS codes insure that all income is recorded as having been deposited into a bank account or into the CASH account. Consequently, for each item of income, you must first determine the proper codes that apply to that item before you can record it.

In addition, you should use your personal list of From Whom Income is Received so that income from the same source can be combined and summarized. In this case, absolute consistency is required. For instance, the From Whom Income is Received for the American Telephone and Telegraph Company shouldn't be AT&T once, Am. T & T another time, and AT & T still another time. Names not on your list *will be accepted*, but it's best to put them on your list so that you can determine the exact spelling as needed. After all, you should know where your income is coming from.

If you have a printer, the printouts prepared by this routine are useful for entering data since you can copy repeat entries directly. This saves time and helps considerably in making sure that similar transactions are treated the same way each time.

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Also be sure to keep each month's income separate so that your records are accurate. If you run one month's income into another, comparisons between budgeted and actual income received are no longer meaningful.

To make using this routine easier, keep a notebook (handwritten if necessary) of your standard lists of Types of Income, Disposition of Income, and From Whom Received. Even though this information can be displayed on your monitor at any time, you will find it easier and faster, when entering many items, to look them up in your notebook.

One final note: This routine will hold 200 entries each month.

Getting Started

Each month, use the PLANNED INCOME (Chapter 11) routine to create a worksheet on which you can temporarily record your income for the month. Then, when convenient, you can record several entries at one time. Ideally, financial transactions should be recorded as they occur or soon thereafter.

When you select INCOME from the Main Menu, you will be given the following options:

INCOME

1. ENTER/CHANGE DATA
2. VIEW INCOME FOR MONTH
3. VIEW INCOME FOR YEAR
4. VIEW INCOME BY TYPE
5. MAIN MENU

Select item 1 if you want to record new income or make any changes. To see what you've already recorded, select items 2 through 4. When you've finished recording your income, select item 5 to return to the Main menu.

Specifics

Selecting item 1, Enter/Change Data, yields the following menu:

ENTER/CHANGE DATA

1. START NEW MONTH
2. ADD NEW INCOME
3. CORRECTIONS
4. DELETE
5. INCOME MENU

Be careful when you select the Start New Month option because if data for that month has already been entered, this option will erase that data. If you're not certain if you've established a file for that month yet, check first. Return to the INCOME menu by selecting Income Menu, then call the View Income for Month routine (item 2).

If you receive a predictable income each month (for example, \$300.00 each month from Social Security), you may be tempted to avoid the pitfall described above by simply setting up a file for each month of the year early in January. It sounds good. You know for certain that there is a file and you then avoid using the Start New Month option for the rest of the year. Additional income is simply added when received. But this isn't as smart as it sounds. Doing so will invalidate the INCOME (for year), EXPENSE (for year), ACCOUNT BALANCES, and BALANCE SHEET routines and will sharply reduce the benefits to be gained from this system. For example, ACCOUNT BALANCES will report money in the bank that isn't there yet. As a general rule, then, don't set up files ahead of time and don't record income before you receive it.

Selecting items 2 through 4 of the Enter/Change Data menu allows you to record your income, add to it, correct it, or delete it.

When you select Add New Income (or Start New Month, after determining that you haven't established a file yet for that month), you will be asked to supply the following information:

Day. Type in the day of the entry using two digits. For the first of the month, type 01, and so on.

Type of Income. Use the appropriate number from your list. If you don't have a hard copy of the list, typing T will enable you to see it on your monitor.

From Whom. Type in the name of the one who is paying you exactly as spelled in your personal list of From Whom Income is Received. Typing F will enable you to see the list on your monitor. A name not on the list will be accepted, but this should be the rare exception.

Disposition of Income. Type the three-letter code from your personal list which identifies where you are depositing this money. For example, use CHE if you're depositing these funds into the checking account. Be sure to use the correct Disposition of Income code for each entry. If you don't have a

CHAPTER TWO

hard copy of the list, typing D will enable you to see it on your monitor.

Amount. Type in the amount received. You will then be asked

ANOTHER ITEM? (Y/N)

If you have additional items to record, type Y, and if not, answer N. Your data will be saved and then displayed on the screen. Check for any errors.

Making corrections is even easier. Here, PAM will display a list of the items in that month's file along with an item number. Remember the item number and type it in when asked. That item will then be displayed one line at a time. If you have no change to make in that line, press RETURN (this will leave the information unchanged) until PAM displays that part of the data that you wish to correct. Then, type in the corrected data. Continue pressing RETURN until the computer takes over. PAM will then ask ANOTHER ITEM?. You can correct as many items as you wish.

DELETE will also display a list of items in that month's file along with an item number. Type in the item number when asked, and PAM will erase that item. Here again you will also be asked ANOTHER ITEM?. If you delete a second item, you will see the first item listed as

21 ZZZZZZZZZZZZZZZZ 0.00

Pay no attention to this; it's just a reflection of what is in the computer's memory and not what's in the file. When you've finished deleting, this item will disappear completely.

Now that we've gone through the procedure, let's look at some specific examples.

If you put parts of your paycheck into different bank accounts, then you must make a separate entry for each part. Consider an example where your gross pay from the Jones Manufacturing Company is \$500.00 per week. You've established 6 as the Type of Income code for your regular pay (see Figure 1-3). Based on a review of your planned expenditures for this week, you determine that you need to distribute your paycheck as follows:

SAVings Bank:	\$ 37.00
CHEcking:	\$200.00
CASH:	\$213.00
RETirement (IRA):	\$ 50.00

In this case, you must make four separate entries to record your pay. Figure 2-1 shows what these entries look like.

As another example, since income tax refunds aren't income (under tax law at this writing), don't use this routine to enter them into the system. Instead, see the ADJUSTMENTS routine (Chapter 4) for an explanation of how to handle money received which isn't classifiable as income.

For another example, let's say the Joneses want to go to the theatre with you. Jim Jones gives you \$20.00 to pay for their share of the tickets. This \$20.00 isn't income, and you shouldn't list Jim Jones on your From Whom Income is Received list.

This is a case where someone else's money is mixed in with yours. This is rare for business, but common with household accounts. For example, if you pay for the tickets by check, you would deposit Jones' \$20.00 into your checking account. Some entry in your accounting system seems to be necessary to offset that deposit. However, since this is not income, you shouldn't make an entry by using the INCOME routine. The ADJUSTMENTS routine (Chapter 4) will resolve this example.

You can minimize the amount of work you put into your accounting system by reducing the number of entries that you make. For instance, you can record your net (take-home) pay instead of your gross pay. This way, you would simply let your employer keep track of your deductions.

For those who choose to enter their net pay as income, they can use the EXPENSE routine (Chapter 3) once a month or even once a year for recording payroll deductions as one lump sum. Such deductions as income taxes, FICA, medical expenses, retirement plan contributions, life insurance, and other payroll deductions may be suitably handled in this way. When your employer has notified you of the total cost of these items for the year, then use the INCOME routine to enter the sum of all of these as income, with DIS to CAS; then use the EXPENSE routine to charge off these items as expenditures against the proper expense account from the CASH account.

Chapter 3 discusses this procedure in detail; it is noted here only as a suggestion and to show the flexibility possible with PAM. It allows you to choose between detailed, specific entries or more general, block entries. After you've used PAM awhile, you can decide which you like better.

CHAPTER
TWO

View Income

Selecting View Income for Month from the INCOME routine menu will display on the screen all of your income entries for a month. You will be asked to type in the month number (two digits).

Figure 2-1. Sample Income for Month Report

JOHN & JOAN SMITH
JANUARY 1985

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<u>INCOME</u>					
<u>DATE</u>	<u>TY</u>	<u>FROM WHOM</u>	<u>DIS</u>		<u>AMOUNT</u>
1 01	1	GTE	SAV	\$	75.00
1 03	6	JONES MFG	RET	\$	50.00
1 03	6	JONES MFG	SAV	\$	37.00
1 03	6	JONES MFG	CHE	\$	200.00
1 03	6	JONES MFG	CAS	\$	213.00
1 15	1	RCA	SAV	\$	50.00
1 31	2	SAVINGS BANK	SAV	\$	17.39
				<u>TOTAL</u>	<u>\$ 642.39</u>

Selecting View Income for Year causes PAM to run through all your income entries from the beginning of the year to date, combining entries where the From Whom Received name is exactly the same, summing up and displaying the result on the screen.

Figure 2-2. Sample Income for Year Report

JOHN & JOAN SMITH

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<u>INCOME FOR 1985</u>					
<u>TYPE</u>	<u>FROM WHOM RECEIVED</u>			<u>AMOUNT</u>	
1	GTE	\$		300.00	
6	JONES MFG	\$		26000.00	
1	RCA	\$		200.00	
2	SAVINGS BANK	\$		208.68	
				<u>TOTAL</u>	<u>\$ 26708.68</u>

Selecting View Income by Type will do the same thing except that only one type of income will be displayed.

Figure 2-3. Sample View Income by Type Report

JOHN & JOAN SMITH		521
DIVIDEND		
<u>INCOME FOR 1985</u>		
TYPE	FROM WHOM RECEIVED	AMOUNT
1	GTE	\$ 300.00
1	RCA	\$ 200.00
		TOTAL \$ 500.00

Reports

This routine will provide you with a display of your income for any month, a report of total income for the year to date, and a similar report by type of income. (See Figures 2-1 through 2-3.)

These reports show you what income you received during any month and for the year to date. They can be used as a check on the accuracy of your records, but more important, they show you precisely how much money you are making so that you will know what you can afford to spend. This is, after all, what accounting records are for.

Don't forget that the PLANNED INCOME routine (Chapter 11) can provide you with reports comparing your budget estimates with actual income. Also, STATEMENT OF INCOME and EXPENSE reports (Chapter 10) makes direct comparisons between actual income and expenses.



CHAPTER
THREE

Expense



Expense

Now that you know how much money you're making, let's see how and where you're spending it. Unfortunately, we won't find out if you have any money left over until we get to Chapter 10, but in the meantime, as you will soon see, we're going to get some good information here.

The EXPENSE routine records your expenditures. Whenever money leaves your possession, whether by cash or check, you've made an expenditure. If you use a credit card or are charged a fee of some kind, you've incurred an unpaid bill. But you haven't made an expenditure until you actually pay the bill.

You will recall that one of the fundamental principles of cash accounting is that all expenditures are paid by CHECK or CASH. To implement this, the INCOME routine assigns part of your income to the CASH account, some to the CHECKING account, and the rest elsewhere; the TRANSFER routine moves money from one bank account to the CASH account (or to the CHECKING account) as you need it; and the EXPENSE routine uses the Sources of Funds code to charge the expenditure against either the CASH or the CHECKING account as applicable. In a nutshell, that's how it works.

You must develop your own routine to record expenses in a timely and accurate manner. Be especially careful with items that you will pay for by monthly payments. It is easy here to enter the purchase and then enter the payments each month, thereby entering the expenditure twice. In this case, you shouldn't record the initial purchase (see the examples which follow).

Also be sure to keep each month's expenses separate so that your records are accurate. If you run this month's expenses into another month, comparisons between budgeted and actual expenditures are no longer meaningful.

You *must* use the Type of Expense codes and the Expense Accounts that you established using the PERSONAL DATA routine described in Chapter 1. This routine will not accept Type of Expense codes or Expense Accounts that aren't on your list.

To make using this routine easier, keep a notebook of your standard lists of Types of Expense and Expense Accounts. You'll find it easier and faster to look them up in your

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notebook than to take the time to display them on the screen.

In addition, printed copies of reports prepared by this routine are useful in entering data since you can copy repeated entries directly and exactly. This saves time and helps considerably in making sure that similar transactions are treated the same way each time. As with all computer programs and accounting systems, consistency is important.

The EXPENSE routine will hold 200 entries each month.

Detailed Versus Preexpended

You can keep as detailed an accounting of your expenditures as you wish. What this means is that for a detailed accounting, you must set up an expense account for each kind of expense. Specific expense accounts for a detailed accounting system would be, for example,

ALLOWANCE-DAD
ALLOWANCE-MOM
ALLOWANCE-SON

If, on the other hand, this isn't a significant expense to you and you can get by with a slightly less-detailed accounting, then ALLOWANCE could include all allowances for the entire family. The choice is yours.

The more detailed the accounting, the more entries you will have. For example, keeping detailed entries of your payroll deductions each payday means that you must record up to 7 or more entries each time you get paid. If you are paid each week, this alone would require 28 or more entries per month. The disadvantage of repetitive entries is that other expenditures will tend to be covered up by this multiplicity of routine entries, making the study of your financial reports more difficult.

The problem of repetitive entries can be alleviated somewhat by using the preexpended system for recording expenditures. The preexpended concept simply means that unimportant and similar items are merged and recorded once for the month (or even for the year if possible). There are two ways to do this: The Petty Cash Fund and the Peanut Butter Jars Fund. Each is a little different.

A Petty Cash Fund can be set up to be used for payment of small amounts. A check is drawn for, say, \$25.00. The check is cashed and the money placed in a box or drawer.

When payments are made for such items as postage, newspapers, or bus fare, the items are listed on a printed form or a blank sheet of paper. When the fund is nearly exhausted, the items are summarized, the expenditures recorded, and a check drawn to cover the exact amount spent. The check is cashed and the fund replenished. At all times the cash in the drawer plus listed expenditures will equal the amount of the fund.

With the Peanut Butter Jars Fund, you set up a number of containers—one for each specific, planned expenditure (for example, food, car repairs, and gasoline). When called for in the budget, you record the expenditure when you put money in the jar.

For example, your budget states that you will spend \$200.00 in January and again in July for car repairs. Obviously, you cannot predict when the car will break down, but you did the cautious thing and budgeted for it. It doesn't make sense to budget \$30.00 a month for car repairs with PAM, as car repairs tend to come in larger amounts. Budgeting for this eventuality in small monthly amounts would result in your financial reports showing under-expenditures for many months (in which case you might be tempted to spend the money for something else), and eventually a substantial over-expenditure in one month. In short, it would make interpreting your reports much more difficult. The Peanut Butter Jars Fund then is ideal for this. Here's how it would work in this case.

In January, put \$200.00 in a jar and label it Car Repair. Using this routine, record this as an expenditure. When your car needs work (oil change, grease, tune-up, tires, or general repair), take the money from the jar to pay for it. No record is made, since the whole \$200.00 has already been charged to the Car Repair jar.

If you spend more than the amount of money in the jar, be sure to record the difference as an additional charge against that expense account.

Similarly, if you estimate that you will spend \$60.00 per month for gasoline, on the first of each month, make one entry of \$60.00 for Gasoline. Put \$15.00 each payday into a PAM jar labeled Gasoline and use that to pay for your gasoline.

Note that with the Petty Cash Fund, expenditures are recorded after they are made; with the Peanut Butter Jars, the expenditure is recorded when the money is set aside.

You can save yourself time and trouble by using the

CHAPTER THREE

preexpended concept that applies to you. For those little daily expenditures, this is easier than charging each one individually. But, remember, if you want to record each penny spent at the time that it is spent, *then do so*. If you wish, you can combine both techniques. There is no limit to the flexibility and no restriction on how entries are made. There are some rules you should follow, but no matter which system you use, the total at the end of the month (or year) should be accurate. The main purpose of financial records is to provide a basis for financial decisions. If it really costs you \$500.00 a year to maintain your car, for example, then your records should show it.

Getting Started

In this accounting system, there are only two ways that you can spend your money: by check or by cash. These are your Sources of Funds. Decisions on how to treat expenditures are made on the basis of whether you paid by check or cash. Again, the items you purchase with a credit card aren't re-recorded until you pay for them with a check or cash. It's not how you buy that counts, but how you pay.

Each month, use the PLANNED EXPENDITURES routine to create a work sheet on which you can temporarily record your expenses for the month. Then, when convenient, you can record a number of entries at one time.

When you select EXPENSE from the Main Menu, you will be given these options:

EXPENSE

1. ENTER/CHANGE DATA
2. VIEW EXPENSE FOR MONTH
3. VIEW EXPENSE FOR YEAR
4. VIEW EXPENSE BY TYPE
5. MAIN MENU

Select item 1 if you want to enter new expenses or make any changes. To see what you've recorded, select items 2 through 4.

When you've finished using this routine, select item 5 to return to the Main Menu.

Specifics

Selecting Enter/Change Data yields the following menu:

ENTER/CHANGE DATA

1. START NEW MONTH
2. ADD NEW EXPENSE
3. CORRECTIONS
4. DELETE
5. EXPENSE MENU

Be careful when you select the Start New Month option. If you've already entered data for that month, selecting this option will erase that data. If you're not certain if you've established a file for the month yet, check first. Return to the EXPENSE menu by selecting Expense Menu, then call the View Expense for Month routine.

If you have a predictable expenditure each month (for example, your mortgage or car payment), you may be tempted to avoid the pitfall described above by simply setting up a file for each month of the year early in January. As stated for income in Chapter 2, it sounds good. You know for certain that there is a file and you then avoid using the Start New Month option for the rest of the year. Additional expenditures are simply added when paid. But doing this will invalidate the Expense for Year, Account Balances, and Balance Sheet routines, and sharply reduce the benefits provided by this system. The Statement of Income and Expense for Year to Date (Chapter 10), for instance, will show expenditures that haven't yet occurred. *As a general rule, then, do not set up files ahead of time.*

Selecting items 2 through 4 of the ENTER/CHANGE DATA menu allows you to enter, add, correct, or delete expenditures.

When you choose item 2, Add New Expense (or item 1, Start New Month, after determining that you haven't established a file yet for that month), you will be asked to supply the following information:

Day. Type in the day of the entry using two digits.

Type. Use the appropriate number from the Type of Expense list. If you don't have a printout of the list, typing T will enable you to see it on your monitor.

Note that once you've specified the expense type number, you are then limited to expense account numbers that are within these specified ranges:

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Type	Account Number
1	1-59
2	60-84
3	85-98
4	100-139

Account No. Use an expense account number from your list of Expense Accounts that is within the range allowed by the Type of Expense previously specified. If you don't have a printout of the list, typing T will enable you to see it on your monitor.

You *must* use one of the expense accounts listed. You can add or rename an expense account only by using the PERSONAL DATA routine discussed in Chapter 1. If you are entering an expenditure and you don't see the right account, use Other or Miscellaneous (which you should have previously established). Later, set up the account you want and transfer the data using the Change option of this routine.

You need to type only the account number; PAM will provide the account name.

CHEck No. or CAS. If you are paying by check, type in the check number; otherwise, type in CAS.

Amount. Type in the amount spent. You will then be asked

ANOTHER ITEM? (Y/N)

Type Y (yes) or N (no) as appropriate. If you answer N, your data will be saved, then displayed on the screen. Check for any errors.

Making corrections is even easier. Here, PAM will display a list of the items in that month's file along with an item number. Remember the item number and type it in when asked. That item will then be displayed one line at a time. If you have no change to make in that line, press RETURN (this will leave the information unchanged) until PAM displays the part of the data that you wish to correct. Then, type in the corrected data. Continue pressing RETURN until the computer takes over. PAM will then ask ANOTHER ITEM?. You can correct as many items as you wish.

Note that Corrections gives you the opportunity to change the name of an expense account. Don't do it, however; this will only add confusion and chaos to your system. If you need

an expense account with a particular name, use the PERSONAL DATA routine of Chapter 1 to set it up.

The Delete option will also display a list of items in that month's file along with an item number. Type in the item number when asked, and PAM will erase that item. Here again you will also be asked ANOTHER ITEM?. If you delete a second item, you will see the first item listed as

```
21 ZZZZZZZZZZZZZZZZ 0.00
```

Pay no attention to this; it's just a reflection of what is in the computer's memory and not what's in the file. When you've finished deleting, this item will disappear completely.

Be careful to enter expenses only once. Remember that the Creditor list represents expense accounts (account numbers 100-139). If you buy a computer and charge it to your credit card, then you cannot record the purchase as an expense (but do make a record of it using the PROPERTY routine described in Chapter 7). The expenditure will be recorded when you send a check to the credit provider. For example,

ACCOUNT NUMBER	TO WHOM PAID	AMOUNT
96	EQUIPMENT-COMPUTER	\$200
100	CREDIT CARD BANK	50

Both accounts 96 and 100 are expense accounts, and each month as you write a check (and enter it) you will be adding to the duplication of entry. Since you will be wanting to log every check, the solution in this case isn't to enter this expenditure into account 96 but instead to list it under PROPERTY (Chapter 7). As the months go by and you record a payment to your bank of \$50.00 each month, that expense account will eventually show your expenditure of \$200.00.

Also, remember that if you take money from a bank account, it's a transfer and not an expense. See Chapter 4.

If the bank pays your car loan by transferring money from your savings account (or checking account), then a transfer *and* an expenditure have taken place. You must make two entries. First, you should execute a Transfer any time money is taken from a bank account (withdrawals by you, the bank, or anyone else). If the money is to be spent, then transfer the money to the CHECKING or CASH Account. When you've spent the money, then use the EXPENSE routine and record the expenditure.

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A typical paycheck might be itemized as follows:

Gross pay	\$500.00
Federal income tax	- 100.00
State income tax	- 25.00
FICA tax	- 35.00
Medical insurance	- 20.00
Life insurance	- 5.00
Union dues	- 2.00
Retirement plan	- 50.00
<hr/>	
Take-home pay	\$263.00

Consider recording only the net (take-home) amount received. At the end of the year, your employer must report to you the amount deducted from your pay for the first three items. The others are easy to calculate, although most employers will also report these amounts as well. When your employer does, you can make lump sum entries for the year as follows.

Use the INCOME routine to enter the sum of all these as INCOME, with DIS to CAS; use the EXPENSE routine to charge off these items as expenditures from the CASH Account.

Naturally, if you wish, you can enter each of the above items every week. The advantage here is that you can know during the year how much these items are adding up to. The disadvantage, of course, is the large number of entries that you must make each month.

By now, you should know that *credit-card purchases are not recorded as expenditures because no funds are actually spent at the time of the purchase*. These expenditures are recorded as payments are made. In this event, the purchase will not be categorized (as furniture, clothes, or whatever) unless you make deliberate corrective entries. If you spend \$100.00 for clothes and charge them to your card, you make no immediate entry. On January 1 you pay \$50.00; on February 1 you pay \$50.00. Enter each item when it's paid using EXPENSE and charging it against your bank card. This is all you need to do.

However, if you pay in full during the year, you can delete the entries above and make one entry to Clothes for \$100.00. If the items are not fully paid for during the same year, you can charge the Clothes account only the amount that was paid during the year. This is, after all, a cash-basis

accounting system. The remainder of the expenditure must be charged next year as paid.

In a cash-basis accounting system, you can pay out the cash only once. Consequently, you must decide which alternative is best for you. The alternative described above is generally supported here because payment to the credit-card bank will probably be by check. In order for your accounting system to parallel your checkbook, you will want to record each check individually and not lump them.

If, for example, you just bought a new bedroom set for \$2,000.00 and took the money from the SAVings Account to pay cash, is this really an expense? No. An expense, in the case of an individual is really only the cost of daily living. This includes the cost of furniture, automobiles, and so on. But that cost should be spread out over its useful life. This is called *depreciation* and since it complicates our accounting system, we will avoid it until Chapter 7 (the PROPERTY routine).

For durable goods (that is, furniture and other items that last for many years), you should use ADJUSTMENTS (Chapter 4) to reduce your balance in SAVings:

0301 SAV Furniture -2000.00

and PROPERTY (Chapter 7) to record the acquisition.

Even though this procedure is technically correct, perhaps it would be better to set up an expense account for Furniture and charge it off just like any other expenditure. This is because it is simpler (the example is much more complicated if you pay by check); it will tell you how much you spend for furniture during the year; it won't affect the BALANCE SHEET routine at all; and the STMNT OF I&E routine will more clearly reflect what you've done.

If you do record this as an expense, then, as with other expenses, Transfer what you need from SAVings to CASH. As before, be sure that you also record this purchase using the PROPERTY routine (Chapter 7).

As another example of the decisions you need to make when using PAM, consider the situation where you've run out of food money and must buy \$13.00 worth of food with your personal allowance. Your allowance has already been recorded as spent. The original entry was

01 1 6 ALLOWANCE-DAD CAS \$80.00

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This example applies whenever you wish to change a recorded expense. Since food is an expenditure you would normally monitor, using your allowance money to buy food requires a correction to your records. The desired effect is to decrease the amount recorded as spent for Allowance and increase the recorded expenditure for Food. Use the Corrections option. When you're finished, the entries should look like this:

```
01 1 6 ALLOWANCE-DAD CAS $67.00
01 1 8 FOOD CAS $13.00 (plus what was originally recorded for Food on that date)
```

Is buying securities an expense? No, it is a transfer, usually from SAVings or CHEcking to INVestments (see Transfer in Chapter 4).

For additional examples, see the other chapters which discuss income and expenses.

View Expense

Choosing View Expense for Month will display on the screen all your expense entries for a month. You will be asked to type in the month number (two digits).

Figure 3-1. Sample Expense for Month Report

JOHN & JOAN SMITH
JANUARY 1985

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							<u>EXPENSE</u>		
DATE	TY	ACT	TO WHOM	CHE		AMOUNT			
1 01	1	6	ALLOWANCE-MINE	CAS	\$	80.00			
1 01	4	100	VISA BANK	347	\$	50.00			
1 01	1	14	LAUNDRY	CAS	\$	12.89			
1 03	2	62	UNION DUES	CAS	\$	2.00			
1 03	1	30	LIFE INSURANCE	CAS	\$	5.00			
1 03	2	69	MEDICAL INSURAN	CAS	\$	20.00			
1 03	1	3	TAXES-FICA	CAS	\$	35.00			
1 03	2	66	TAXES-STATE	CAS	\$	25.00			
1 03	1	2	TAXES-FEDERAL I	CAS	\$	100.00			
1 05	3	87	CLOTHES	345	\$	123.45			
1 07	1	15	MAGAZINES/BOOKS	CAS	\$	21.95			
1 09	4	108	FILENE	346	\$	78.99			
1 12	1	19	POSTAGE	CAS	\$	2.00			
1 15	3	89	ENTERTAINMENT	348	\$	20.00			
TOTAL						\$	576.28		

Selecting 3, View Expense for Year, will cause PAM to run through all your expense entries from January 1 to date, combining like entries (where the expense accounts are exactly the same), summing up, and displaying the result on the screen.

Figure 3-2. Sample Expense for Year Report

JOHN & JOAN SMITH		150
<u>EXPENSE FOR 1985</u>		
ACT	TO WHOM PAID	AMOUNT
6	ALLOWANCE-MINE	\$ 4160.00
87	CLOTHES	\$ 856.25
89	ENTERTAINMENT	\$ 266.32
108	FILENE	\$ 261.35
14	LAUNDRY	\$ 645.59
30	LIFE INSURANCE	\$ 260.00
15	MAGAZINES/BOOKS	\$ 93.07
69	MEDICAL INSURAN	\$ 1040.00
19	POSTAGE	\$ 38.80
2	TAXES-FEDERAL I	\$ 5200.00
3	TAXES-FICA	\$ 1820.00
66	TAXES-STATE	\$ 1300.00
62	UNION DUES	\$ 104.00
100	VISA BANK	\$ 600.00
TOTAL		<u>\$ 16645.38</u>

Selecting View Expense by Type will do the same thing except that only one type of expense will be displayed.

Figure 3-3. Sample Expense by Type

JOHN & JOAN SMITH		534
DEDUCTIBLE		
<u>EXPENSE FOR 1985</u>		
ACT	TO WHOM PAID	AMOUNT
69	MEDICAL INSURAN	\$ 1040.00
66	TAXES-STATE	\$ 1300.00
62	UNION DUES	\$ 104.00
TOTAL		<u>\$ 2444.00</u>

CHAPTER THREE

Reports

This routine will provide a display of your expenditures for any month, a report of total expenses for the year to date, and a similar report for each type of expense.

These reports show what expenditures were made during any month and for the year to date. They can be used as a check on the accuracy of your records, but more important, they show precisely how much money you spent and where. This is, after all, what accounting records are for.

Don't forget that the PLANNED EXPENDITURES routine can provide you with reports that compare your budget estimates against actual expenses. Also, STATEMENT OF INCOME and EXPENSE reports make direct comparisons between actual income and expenses.

CHAPTER
FOUR

Adjustments



Adjustments

Some people believe that it's more difficult to set up an accounting system for a household than it is for a large corporation. Consider that with a business, money coming in is income—what goes out is expense. Everything is black-and-white, and there is nothing in between. Families, on the other hand, have household accounts *and* personal accounts. For example, the wife and the husband may both have savings accounts (or money in the cookie jar) which they consider personal money—not part of the household finances. This causes no difficulty until one of them wants to use the household checkbook to spend it. When this happens, personal savings then get mixed into the household accounting system.

On such occasions, the individual will deposit personal money into the bank and issue a check. This money isn't income, so the INCOME routine (Chapter 2) cannot be used to log it as a deposit into the checking account. On the other hand, the check can be logged as an expenditure using the EXPENSE routine (Chapter 3). The net result is that your checkbook may agree with the bank, but because this deposit wasn't logged into the accounting system, the ACCOUNT BALANCES routine (Chapter 5) will show an incorrect checkbook balance. You need some way to enter money into the household financial system in these situations.

Here's another problem. What if you have money in the savings account and want to spend some of it. The accounting system requires first that this money be either in the checking account or in your pocket. How do you get it there? You can't use the INCOME routine because it's not *new* money (that is, it was in the bank already). What can you do?

This is where the ADJUSTMENTS routine comes in. Because there are two types of problems, this routine is made up of two parts: Adjustments and Transfers.

Adjustments allows you to bring money in or take money out of the system when the INCOME routine doesn't apply. The Adjustments subroutine will accommodate up to 100 items per year.

Transfers is used to move money from one DIS account to another. The Transfers subroutine will accommodate up to 150 items per year. If this number is insufficient, you can make more room by eliminating offsetting items.

CHAPTER FOUR

For example, if you run out of room in Transfers in December, you should get a listing of your transfers for the year and look for entries that offset each other:

0216	CAS	CHE	\$100.00
0401	CHE	CAS	\$75.00
0612	CHE	CAS	\$25.00

While it was necessary in February, April, and June for these entries to be separate, that is no longer the case in December. Since these entries exactly cancel each other, you may use the Delete function and delete them all.

In the above example, if the amounts didn't exactly cancel each other, you could use the Correct function to break up one of the amounts to effect a cancellation between two of the three.

Finally, it will be easier later on when you're checking the accuracy of your accounting system if your accounting system entries parallel what you actually do. Spending money, for instance, usually requires two steps: going to the bank to take the money out and going somewhere to spend it.

Your accounting entries should also consist of two steps in which you first record the withdrawal from the bank (transferring it from you bank DIS to CASH or CHEcking), then record the expenditure. You cannot, for instance, combine the two steps and transfer money directly from a bank account to an expense account. Remember our principle: Money can be spent only by CASH or CHEck. There is an exception, however; you can get rid of your money by adjustment. See the examples below.

Getting Started

When you select item D, Adjustments, from the Main Menu, you will be asked to choose from one of the following:

ADJUSTMENTS

1. ADJUSTMENTS
2. TRANSFERS
3. DISPLAY
4. MAIN MENU

Selecting item 1 or 2 will lead you to the following menu:

ENTER/CHANGE DATA

1. ADD NEW DATA
2. CORRECTIONS
3. DELETE
4. RETURN TO MENU

You can add new items or make corrections or deletions to existing items as needed by selecting the desired option.

Selecting item 3, Display, from the ADJUSTMENTS routine menu allows you to see on the screen all adjustment or transfer items contained in the file based on these categories:

DISPLAY

INDIVIDUAL ADJUSTMENT ITEMS

SUMMARY OF ADJUSTMENTS

INDIVIDUAL TRANSFER ITEMS

SUMMARY OF TRANSFERS

Samples of these displays are shown in Figures 4-1 through 4-4, which serve as additional examples.

When you're finished with this routine, select item 4 to return to the Main Menu.

Adjustments

Adjustments will not be used frequently—after all, how often do you receive unearned money? Remember that Adjustments is used to adjust your accounting records for money received that isn't income or to remove money from the system that wasn't spent, but is nevertheless no longer a part of the system. Some examples follow.

What happens when you receive your income tax refund and deposit it into your SAVings Account. How do you enter it into the system? Use one of the options below, but not both, depending on your preference.

(1) A tax refund is money received which isn't income. Use the Adjustments routine and enter the following into your SAVings Account:

```
0312 SAV INCOME TAX REFUND 123.45
```

(2) If you recorded an Income Tax expense in last year's records, you might want to go back and change the amount. If you do that, then don't do option 1 above as this amount will show up in your SAVings Account January 1 Balance. Of course, you will have to change all of your end-of-year reports.

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What if you've deposited \$12.50 in pennies you've been saving into the SAVings account? Here's another case where you need to enter money into the system which isn't classifiable as income. Use the Adjustments routine:

0204 SAV PENNIES 12.50

Consider the case where you've borrowed \$500.00 from the First National Bank to buy furniture. This isn't income but you must record it as a deposit to the CHEcking or CASH account:

0415 CHE LOAN 500.00

What if a husband and wife decide to split the savings account into two accounts (his and hers). One account will remain as the household account but the other account is to be personal and not within the household accounting system. The personal account will amount to \$1,000.00. What now?

The personal account's share of the savings account must be taken out of the system. It isn't an expenditure, so the EXPENSE routine cannot be used. This is a rare example of how you can "spend" money other than by check or cash. Here, we use ADJUSTMENTS to do it:

0518 SAV PERS ACCT WITHDRAWAL -1000.00

(Note the negative sign before the amount.)

Transfers

The Transfer routine moves money from one DIS account to another without spending any of it. Use it to move your money around. For example, if the bank automatically pays the car loan from your SAVings Account, here's how to deal with the situation. Remember that all expenses (including loans, creditors, and so forth) are paid by CHEck or CASH. In this case then, use the Transfer routine:

0101 SAV CAS 123.45

This will transfer the money from SAVings to CASH thereby making the money available to be spent. Then use the EXPENSE routine to record the expense against CAS as the Source of Funds.

What if you want to make a check for \$100.00, but need to get \$50.00 from the SAVings Account and put it into the CHEcking Account? This is the normal transaction for Transfer:

0102 SAV CHE 50.00

This moves \$50.00 from the SAVings Account into the CHEcking Account.

As another example, what if you've just paid \$100.00 for four shares of stock? How do you record this expenditure? Since buying securities isn't an expense but a Transfer (usually from either SAVings or CHEcking to INVestments) use

0324 CHE INV 100.00

Use the INVESTMENTS routine (Chapter 6) to record all the pertinent information about this stock.

Reports

This routine will provide you with screen displays and printed reports as listed in the Display menu above. Figures 4-1 through 4-4 show samples of these reports.

Figure 4-1. Sample Individual Adjustment Items

JOHN & JOAN SMITH

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			<u>ADJUSTMENTS</u>
DATE	DIS	EXPLANATION	AMOUNT
0204	SAV	PENNIES	12.50
0301	SAV	FURNITURE	-2000.00
0312	SAV	INCOME TAX REFUND	123.45
0415	CHE	LOAN FROM FIRST NA	500.00
0518	SAV	WIFE'S WITHDRAWAL	-1000.00

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Figure 4-2. Summary of Adjustments

JOHN & JOAN SMITH	800
<u>SUMMARY OF ADJUSTMENTS</u>	
<u>DISPOSITION</u>	<u>AMOUNT</u>
BUSINESS	0.00
CASH ACCOUNT	0.00
CHECKING	500.00
CHRISTMAS CLUB	0.00
INVESTMENTS	0.00
OTHER	0.00
RETIREMENT PLAN	0.00
SAVINGS ACCOUNT	-2864.05
NET ADJUSTMENTS	\$ <u>-2364.05</u>

Figure 4-3. Individual Transfer Items

JOHN & JOAN SMITH			910
<u>TRANSFERS</u>			
<u>DATE</u>	<u>FROM DIS</u>	<u>TO DIS</u>	<u>AMOUNT</u>
0101	SAV	CAS	123.45
0102	SAV	CHE	50.00
0324	CHE	INV	100.00

Figure 4-4. Summary of Transfers

JOHN & JOAN SMITH	900
<u>SUMMARY OF TRANSFERS</u>	
<u>DISPOSITION</u>	<u>AMOUNT</u>
BUSINESS	0.00
CASH ACCOUNT	123.45
CHECKING	-50.00
CHRISTMAS CLUB	0.00
INVESTMENTS	100.00
OTHER	0.00
RETIREMENT PLAN	0.00
SAVINGS ACCOUNT	-173.45

CHAPTER
FIVE

Account Balances



Account Balances

The ACCOUNT BALANCES routine is a real workhorse. If you'd like to know what your checkbook balance is or how much money you've invested in stocks, bonds, and other securities, this routine will calculate it all for you—anytime you want to know.

Specifically, this routine records the balances in all of your DIS income accounts as of January 1, computes the balances in any one or in all of your DIS accounts at any time, and allows you to check on the accuracy of your entries and accounting system.

Getting Started

When you select E, ACCOUNT BALANCES, from the Main Menu, you will be given the following options:

ACCOUNT BALANCES

1. JAN 1 BALANCES
2. INDIVIDUAL ACCOUNTS
3. CURRENT BALANCES
4. MAIN MENU

Specifics

If you choose Jan 1 Balances you will be asked
ENTER DATA (E) OR VIEW (V)

Pressing E will enable you to enter the balance (as of January 1) in each of your DIS income accounts into the system. This is the amount of money in each of your bank accounts as of the first of the year. If you used this or another accounting system last year, this is the end-of-year amounts; if you didn't, you must get this information from your bank books or other sources.

Note that there is no Correct or Change option available. All entries are entered new each time, and existing entries are erased. Before pressing E, therefore, be sure that you have a record of these balances so that you can reenter them.

Pressing V will allow you to see the January 1 Balances previously entered on the screen (see Figure 5-1).

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FIVE

Figure 5-1. Sample January 1 Balances

JOHN & JOAN SMITH
1 JANUARY 1985

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ACCOUNT BALANCES

<u>ACCOUNT</u>	<u>AMOUNT</u>
BUSINESS	23678.82
CASH ACCOUNT	0.00
CHECKING	34.78
CHRISTMAS CLUB	40.00
INVESTMENTS	67899.50
OTHER	0.00
RETIREMENT PLAN	34873.23
SAVINGS ACCOUNT	6734.56
	<hr/>
TOTAL	\$ 133260.89
	<hr/>

If you open a new income account during the year, add it to the Disposition of Income list using the procedure described in Chapter 1. Then add it to the January 1 Balance list with a 0.00 balance. As stated in the paragraph above, this means that you must redo the whole January 1 Balance listing, so be sure that you have all the balances on paper before you start.

Selecting Individual Accounts, the menu options that you will see will be your own personal list of DIS codes. Select the DIS account in which you are interested. PAM will then calculate and display on the screen the following information about that account:

(SELECTED DIS ACCOUNT)

1. JAN 1 BALANCE
2. DEPOSITS
3. EXPENDITURES
4. TRANSFERS
5. ADJUSTMENTS
6. CURRENT BALANCE

For example, if you select CHEcking Account, this routine will give you your January 1 balance, the sum of all deposits, checks issued, transfers and adjustments made to your checking account up to now, and your current checkbook balance.

A good way to find all of your bank balances at once is to choose item 3, Current Balances. PAM will examine all of your

entries and compute the current balance for each of your DIS accounts as described in the paragraph above. It will then total these balances and give you your current assets. This information will be saved for use later in the BALANCE SHEET routine (Chapter 9).

Figure 5-2. Sample Current Balances Report

JOHN & JOAN SMITH
AS OF 31 DECEMBER 1985

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CURRENT BALANCES

ACCOUNT	AMOUNT
BUSINESS	23678.82
CASH ACCOUNT	-3462.01
CHECKING	8900.86
CHRISTMAS CLUB	40.00
INVESTMENTS	67999.50
OTHER	0.00
RETIREMENT PLAN	37473.23
SAVINGS ACCOUNT	6329.74
TOTAL	\$ 140960.14

Figure 5-3. Sample Individual Account Report

JOHN & JOAN SMITH
AS OF 31 DECEMBER 1985
ACCOUNT BALANCES

513

CHECKING

1 JAN BALANCE	34.78
DEPOSITS	10400.00
EXPENDITURES	-1983.92
TRANSFERS	-50.00
ADJUSTMENTS	500.00
CURRENT BALANCE	\$ 8900.86

This is a lot of work for the computer. The screen will tell you how things are going, but as the year progresses and your system contains more and more data, this process will take longer and longer. Just be patient and let PAM do the work.

CHAPTER FIVE

Accuracy Check

Run the Current Balances subroutine each time you get a statement from your bank, then reconcile your balances with those reported by the bank.

This routine will give you the balance remaining in all your DIS income accounts and the catch-all CASH Account. Remember that this is cash accounting, and that all expenditures are paid by CHECK or CASH. To implement this, use the Disposition of Income codes to deposit part of your income into the CASH account, the Transfer routine to move money from one bank account into the CASH Account (if you need it there), and the EXPENSE routine (with the Sources of Funds code) to charge expenditures against the CASH Account. If you've done everything right, the balance in the CASH Account should be zero. If it isn't, then you have an unrecorded income, transfer, or expenditure.

Resolve all problems now. The longer you wait, the more difficult it will be to put your accounting records in order.

Reports

This routine will provide you with a display of the balances in all of your DIS income accounts as of January 1, a similar report showing the current balances, and individual reports for each DIS account showing the January 1 balance, deposits, withdrawals, expenses, transfers, and adjustments made to that account to date as well as the current balance. Figures 5-1 through 5-3 show samples of these reports.

At the end of the year, run the Current Balances option. This will be the basis for the Jan 1 Balances that you will type onto next year's disk; it is also used by the BALANCE SHEET routine to compute your total financial condition.

And Next Year...

This file cannot be transferred electronically to next year's disk. The data must be typed in again. To get ready for next year, you need to run the Current Balances option as suggested above; print out or write down the end-of-year balances for each DIS income account; insert next year's disk into the disk drive; select item 1, Jan 1 Balances; then choose the E option and type in the balance for each DIS account.

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Investments



Investments

The term *investments* as used here is synonymous with *securities*. This means that the kind of investment portfolio that this routine applies to is limited to bonds, stocks, and other securities such as certificates of deposits or mutual funds.

Investments in real estate (including rental property), coins, paintings, and so on, shouldn't be listed here, but should be listed for record and net worth purposes using the PROPERTY routine in Chapter 7.

Any revenues derived from these investments should be recorded using the INCOME routine in Chapter 2.

The INVESTMENTS routine covered in this chapter records the following information about each of your securities:

Bonds: company name
date purchased
number of bonds
total cost
annual amount of interest for each
maturity date

Stocks: company name
date purchased
number of shares
total cost
annual dividends per share

Other: company name
date purchased
amount invested
annual amount of interest for each
maturity date

Have this information handy when you record a new investment. Once you have a new investment recorded, this routine will then calculate the following:

Bonds: cost per bond
percentage yield
total annual interest paid
total current value of each investment

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- Stocks: cost per share
percentage yield
total dividend amount paid
current gain/loss per share
current percentage yield
total current cost
total current gain/loss
date price quotation was entered
- Other: percentage yield
current value of each investment

Periodically, you can obtain current price quotations and record the applicable date and price. In that case, "current" values calculated above become much more meaningful.

This routine will hold up to 50 stocks, 50 bonds, and 10 other items (mutual funds, certificates of deposit, and so forth).

Note: This routine manipulates large amounts of information. You can expect delays during various operations as the computer cleans up after itself and throws out the garbage. Be patient—it takes about 60 seconds each time. The program will eventually resume by itself.

Getting Started

When you choose F, INVESTMENTS, from the Main Menu, you will see the following options after the loading process is complete:

INVESTMENTS

1. BONDS
2. STOCKS
3. OTHER
4. DISPLAY
5. MAIN MENU

You can see your securities on the screen by selecting item 4, Display. See the section on reports (below) for details.

Select items 1 through 3 only if you want to add a new investment or to change information about an existing one. In that case, this menu will appear:

ENTER/CHANGE DATA

1. NEW ITEM
2. CHANGE
3. DELETE
4. RETURN TO MENU

Select item 1 if you wish to record a new investment, or item 2 if you purchased or sold shares, changed the amount of money in an existing investment, or wish to update your listing by entering the current price. Select item 3 if you sold an existing investment completely.

Specifics

Let's start off by looking at how you should handle the purchase or sale of a security. We'll use stocks as an example, but the procedure is the same for bonds and other securities.

When buying securities, treat the expenditure as a transfer and not as an expense. Record your securities purchases as a transfer from SAVings (or CHEcking) to INVestments using the ADJUSTMENTS routine described in Chapter 4. As you would expect, selling securities is a transfer in the opposite direction plus an income (gain or loss) entry.

For example, if you just paid \$100.00 for four shares of stock, you would use the Transfer routine from Chapter 4 to move these funds to INVestments:

```
0324 CHE INV      100.00
```

Using Stocks, then New or Change (all in the INVESTMENTS routine), record this purchase into your stock portfolio by answering the questions on your screen.

Here's another example: On April 15 you sold 100 shares of GTE for \$4,250.00. First, make certain that you've written or printed out all the pertinent data about this stock. Select Display and write down (or make a printed copy) all the information. You will need this for your federal income tax capital gains or loss computation. *Write it down now—it is about to be erased from your computer's record.*

Select Stocks, then Delete, following the instructions to delete this item from your portfolio. Note that if you sold only a part of your holdings, you would use Change instead of Delete and alter the data to show only your remaining investment.

Having adjusted the records part of your accounting system, you must now handle the money part. Let's assume that you originally paid \$2,000.00 for this stock. Using the Transfer routine (Chapter 4), move your original investment, \$2,000.00, from INVestment to SAVing (assuming that the money is being put into the SAVings account):

```
0324      INV      SAV      2000.00
```

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You have a capital gain of \$4,250.00, less \$2,000.00, or \$2,250.00 which is income. Use the INCOME routine (Chapter 2), following the prompts, to enter this amount into the system:

```
0324 5      BROKER SAV      2250.00
```

The above example illustrates the fact that the INVESTMENTS routine is principally for record keeping. Changes made here don't directly affect any other part of PAM. If other parts need attention (as income did above), then you must treat those parts as well.

To reiterate, investments represent a transfer of funds from one account to INVESTment. When investments are sold, there is a transfer in the opposite direction. In addition, any gain or loss from the divestiture must be recorded as income.

Now that you know how it's done, let's look at the particulars for each type of security.

Bonds

When you return to the INVESTMENTS menu and select Bonds, then New, you will be asked to supply the following information:

Company name. Use the company's stock exchange symbol if you know it (maximum of 16 characters).

Date purchased. A format of 032185 (March 21, 1985) is suggested, but other formats are acceptable.

Number of bonds. Enter the number of bonds purchased. If you already own some of these bonds and have just bought additional ones, enter the total number you currently hold. One exception to this rule is accrual bonds (like U.S. Government Savings Bonds), which are best listed individually to make it easier to compute their current value at the end of the year.

Total cost. This is the total cost of all the bonds you hold from this particular company.

Annual amount of interest/each. The amount of interest (dollars and cents) that each bond pays in a year. If a bond doesn't pay interest but is bought at a discount instead (such as U.S. Government Savings Bonds), then the following holds:

Maturity value:	\$25.00
Cost:	\$18.75
Difference ("interest"):	\$ 6.25

The back of the bond will tell you how much interest you earn each year. Usually, you get little at first, but more as the bond approaches maturity. To keep things simple, I recommend that you divide this total interest by the number of years to maturity to get the average annual interest and use that figure instead as the annual interest when you record the purchase of this bond.

Maturity Date. The date that the bonds mature. Use the same format for all dates.

The Bonds routine will now compute the cost of each bond, the percentage yield, and the total amount of interest paid each year. You can view this information by selecting Display, then Individual Bonds (for one bond only) or Income Summary for a summary of all your bonds.

Figure 6-1. Sample Individual Bond Listing

JOHN & JOAN SMITH	601
BONDS	DATE: 041285
CO. NAME (SYMBOL)	US GOVERNMENT
DATE PURCHASED	031683
NO. OF BONDS	1
TOTAL COST	18.75
ANNUAL INTEREST/EACH	1.25
COST EACH BOND	18.75
% YIELD	6.67
TOTAL ANNUAL INTEREST	1.25
MATURITY DATE	031688
CURRENT VALUE	18.75

Stocks

Having selected Stocks and New, you will be asked the following questions:

Company name. Same as for Bonds (above).

Date purchased. Same as for Bonds (above).

Number of shares. Enter the total number of shares you own in the company. Use a separate listing for each class of stock (common, preferred, and so on).

Total cost. Total cost (dollars and cents) of all the company's stock that you own.

Annual dividends/share. The amount of money paid in dividends each year for each share of stock.

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The Stocks routine will now compute the cost of each share, the percentage yield, and the total amount of dividends paid each year.

You can view this information by selecting Display, then Individual Stocks (for one stock only), or by choosing Income Summary or Gain/Loss Summary for summaries of all your stocks.

Figure 6-2. Sample Individual Stock Listing

JOHN & JOAN SMITH STOCKS	DATE: 041285	651
CO. NAME (SYMBOL)		GTE
DATE PURCHASED		042783
NO. OF SHARES		100
TOTAL COST		2000.00
ANNUAL DIV/SHARE		2.00
COST PER SHARE		20.00
% YIELD		10.00
TOTAL DIVIDENDS		200.00
CURRENT DATE		041285
CURRENT PRICE/SHARE		20.00
CURRENT GAIN/LOSS PER SHARE		0.00
CURRENT % YIELD		10.00
TOTAL CURRENT COST		2000.00
TOTAL CURRENT GAIN/LOSS		0

Other Investments

Other investments, such as Mutual Funds, should be listed as stocks if they pay a regular amount each year, are listed in the stock exchange, and have a fluctuating current value. They should be listed as bonds if they pay or accrue interest at a fixed or predictable rate.

An investment should be recorded under Other if the security is an amount invested to which you can add additional amounts periodically (the terms, number of bonds, number of items, and so forth, have no meaning). Include long-term savings deposits (such as certificates of deposit) here, but not your ordinary savings account.

Having selected Other and New item, you will be asked the following questions:

Company name. Same as for Bonds (above).

Date purchased. Same as for Bonds (above).

Amount invested. Enter the total in standard format.

Annual amount of interest/each. Calculate or estimate this value.

Maturity date. The year that the investment matures. Use the same format with all dates.

The Other routine will now compute the percentage yield and the current value of the investment. You can view this information by choosing Display, then Other Investments (for this investment only), or Income Summary for a summary of all your investments.

Figure 6-3. Sample Other Investment Listing

JOHN & JOAN SMITH	701
OTHER INVESTMENTS	DATE: 041285
CO. NAME (SYMBOL)	C/D BANK
DATE PURCHASED	092484
AMOUNT INVESTED	10000.00
ANNUAL INTEREST/EACH	1200.00
% YIELD	12.00
MATURITY DATE	092787
CURRENT VALUE	10000.00

And What's It Worth Today?

All three investment categories (Bonds, Stocks, and Other) allow you to enter the current value of that security and the date. A good deal of the fun in owning investments is in figuring out if your investments are increasing in value, and by how much. PAM reports this by reviewing the calculations made for each security and providing two summary reports. Get out the latest issue of the *Wall Street Journal* (or other price quotation) and let's try an example:

The current price quoted on April 12 for RCA stock is \$34.50, let's say. The company has just announced a change in the dividend from \$1.04 to \$1.20. The dividend change represents a change in the basic information about the stock, so we'll do that first.

Selecting Stocks, then Change, choose the item number for the RCA entry. PAM will list the current information about the stock, one line at a time. Press the RETURN key if there is

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no change for that line. When the prompt for annual dividends/share appears, type in 1.20 and press RETURN. Continue pressing RETURN until no further prompts appear. You have now updated the dividend amount. (In making the above change you may have noticed the last two prompts for the current date and current cost. We could have entered the current price quotation at that time, but we skipped by to make the example simpler.)

To update the date and price of the stock, choose Stocks, then Change, and enter the item number for the RCA entry. As before, PAM will list the information about the stock, one line at a time. Press the RETURN key if there is no change for that line. Type in the current date when asked and press RETURN. Now type in the current price per share and press RETURN again. The routine will now compute the current gain or loss per share, the current percentage yield, the total cost if you were to buy the stock at the current price, and the total gain or loss based on the current price. The information about the RCA stock is now up-to-date (see Figure 6-4).

Figure 6-4. Updated Individual Stock Listing

JOHN & JOAN SMITH STOCKS	DATE:	652 041285
CO. NAME (SYMBOL)		RCA
DATE PURCHASED		061981
NO. OF SHARES		100
TOTAL COST		2754.93
ANNUAL DIV/SHARE		1.20
COST PER SHARE		27.55
% YIELD		4.36
TOTAL DIVIDENDS		120.00
CURRENT DATE		041285
CURRENT PRICE/SHARE		34.50
CURRENT GAIN/LOSS PER SHARE		6.95
CURRENT % YIELD		3.48
TOTAL CURRENT COST		3450.00
TOTAL CURRENT GAIN/LOSS		695.07

Similarly, you should adjust the current value of your bonds. The current value of any investment at first is the same as the Total Cost. For a bond where interest isn't paid, but is retained and paid only when the bond is sold (or at maturity),

the current value of that bond increases each year. At the end of each year, then, you should use the Change option of the INVESTMENT routine to add the total annual interest to the current value. In this case, you can use the actual interest rate on the back of the bond.

For a full evaluation of your portfolio, select the Gain/Loss Summary (for stocks only) and the Income Summary reports described below.

Reports

Returning to the INVESTMENTS menu, you can see your individual securities on the screen by selecting Display. You are then given the following choice:

DISPLAY

1. INDIVIDUAL BONDS
2. INDIVIDUAL STOCKS
3. OTHER INVESTMENTS
4. INCOME SUMMARY
5. GAIN/LOSS SUMMARY
6. RETURN TO MENU

Selecting items 1 through 3 will allow you to see all data about a specific bond, stock, or other security you own. See Figures 6-1 through 6-3.

Choosing item 4, Income Summary, will provide you with a report of your securities, the cost, dividend, and yield for each, as well as the cost, dividend, and yield for each type of investment (bond, stock, or other), and finally the total cost, dividend, and yield for all investments combined. This report is intended to show which investments are producing the best income and the total income from all your investments. If income is your concern, then this report furnishes you with the information you need to adjust your investment portfolio accordingly. For an example, see Figure 6-5.

Item 5, Gain/Loss Summary, produces a report of all stocks, their costs, current costs if purchased today, the resulting gain or loss for each, and the total gain or loss for all stocks. This report is intended to help you make buying and selling decisions involving your stocks. See Figure 6-6 for a sample.

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Figure 6-5. Sample Income Summary

JOHN & JOAN SMITH
INVESTMENTS

DATE: 041285 140

INVESTMENTS INCOME SUMMARY				
COMPANY	QTY	COST	DIV	%YIELD
BONDS:				
US GOVERNMENT	1	18.75	1.25	6.67
STOCKS:				
GTE	100	20.00	2.00	10.00
RCA	100	27.55	1.20	4.36
OTHER INVESTMENTS:				
C/D BANK		10000.00	1200.00	12.00
SUMMARY:				
		18.75	1.25	6.67
		4754.93	320.00	6.73
		10000.00	1200.00	12.00
		14773.68	1521.25	10.30

Figure 6-6. Sample Gain/Loss Summary

JOHN & JOAN SMITH
STOCKS

DATE: 041285 30

GAIN/LOSS SUMMARY (STOCKS)				
SH	COMPANY	COST	PRICE	G/L
100	GTE	2000.00	2000.00	0
100	RCA	2754.93	3450.00	695.07
	TOTAL \$	4754.93	5450.00	695.07

Put printouts of all your investment data in your notebook. This is for ease and speed in retrieving information, and it acts as a safeguard against data loss.

The date of all reports is the date associated with the first stock listed. Before calling one of the reports, always update the current date of the first stock (using the Change function), regardless of whether you are also making any other change.

Obtain price quotations for the last business day of the year and enter this data for all investments. Be sure to include new dividend rates where changed.

And Next Year...

On January 1, transfer this file to the new disk. After selecting INVESTMENTS from the Main Menu, remove the current data disk and insert the new year's disk. Select item 2, Stocks, then item 2, Change, and enter the current date for the first stock listed to January 1 of the new year. Press the RETURN key as many times as there are lines of data. PAM will automatically save this file on the new disk.



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Property



Property

With this routine you can create lists of your belongings. A separate list is created for real estate, appliances, automobiles, and personal items. For household goods, a separate list is created for each room in your house.

The reasons for creating such lists are to arrive at your true net worth as required by the Balance Sheet (Chapter 9), and to assist in the recovery of your property or in filing a claim in the event of loss by theft or fire. For these reasons, you should keep a printout of these lists in your safe deposit box or other safe place.

Before you run this routine, have ready the following information about each item of property that you are going to list:

- Location of the property
- Descriptive name
- Model number
- Serial number
- Original cost
- Date the item was purchased

We'll go into specifics about each of these a little later, but first there are some general rules about the first four that you should know.

Location of the Property on the Room Locator Chart

Except for real estate, whenever you want to add, correct, delete, or display an item of property, you will be asked, first of all, for the room number where the property is located. Obtain that room number from the following chart:

ROOM LOCATOR CHART

1. LIVING ROOM
2. DINING ROOM
3. KITCHEN
4. BATHROOM
5. MASTER BEDROOM
6. BEDROOM NO. 2
7. BEDROOM NO. 3
8. ATTIC
9. CELLAR/GARAGE/SHED

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PAM automatically assigns an identification number to each item of property. That number is composed of three parts—a digit from 1 to 9 representing the location of the item (the room number), a hyphen (-), and a number from 1 to 999. You supply the first part (the room number) and PAM adds the hyphen and the next available sequential number.

The sequential numbers for Appliances, Automobiles, and Personal Items run from 1 to 99. If the humidifier (appliance), for example, located in the living room (1), is the first item on the Appliances list, its identification number will be 1-1. HOUSEHOLD GOODS, on the other hand, are numbered from 101 to 999, the first digit of the sequential number being a repeat of the room number.

Be aware that item numbers might not be unique. The stereo, also located in the living room, as the first item on the Personal Items list, will also have an item number of 1-1. Even though not unique, the numbers are still useful. Use them as property identifying numbers if you don't have a better system.

Description of the Property

When asked for a description of an item, first list its proper or common name (desk, chain saw, pendant, brooch, and so on). This description will appear in the Summary Listing. You are allowed up to 17 characters.

When you RETURN, you will be given two additional lines in which to add to the description of the item. These lines are labeled Model No. and Serial No., respectively, but these prompts needn't be strictly adhered to. Each line gives you room for an additional 17 characters (for a total of 51 characters in all). Use all three lines to enter the item description and any identifying marks that will positively identify that item as much as possible. Extra characters are dropped (they aren't carried over onto the next line), so describe and count the characters in each line carefully. If you leave something out or come up with a better way to describe the item, then go back later with the Corrections function and change it.

This routine will hold 1300 items, including 100 in each of the following categories: real estate, appliances, automobiles, and personal. In addition, it holds 900 household goods (100 items in each room of a nine-room house). Generally, though, you should list only durable items or items of

appreciable value. If you run out of room, see the section "When the File Is Full" below.

Getting Started

After choosing item G, PROPERTY, from the Main Menu, you will be given the following choices:

PROPERTY

1. REAL ESTATE
2. HOUSEHOLD GOODS
3. APPLIANCES
4. AUTOMOBILES
5. PERSONAL ITEMS
6. VALUE ALL PROPERTY
7. MAIN MENU

Selecting items 1 through 5 will enable you to prepare a list of your property for each category; to add, correct, or delete items on that list; or to see the list displayed. Option 6 will display the total value of your property in each category and the total value of all your property. When you're finished with this routine, select item 7 to return to the Main Menu.

Specifics

First, determine the category of property that you want to work with and select that category from the PROPERTY Menu. You can now perform the following operations:

ENTER/CHANGE DATA

1. ADD NEW ITEM
2. CORRECTIONS
3. DELETE
4. DISPLAY
5. RETURN TO MENU

Use Add New Item to start a new list or add to an existing one. There's more than one way to add items; see the details below. The Corrections option works as explained in INCOME, EXPENSE, and other routines in this program. Item 3, Delete, however, is a little different from the way we have been using it.

Delete will erase from the list everything about an item except the item number. What it does is change the description of the item to

---EMPTY---

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This is so that you can use the item number again for a new item while keeping the routine as simple as possible. To add a new item, then, you should choose one of the following methods:

- Use the Summary Listing to look for an EMPTY item. Make a note of the item number, then use Corrections to enter your new item just as if you were using the Add function.
- If there is an item on the list that shouldn't be there (for instance, you don't own it anymore or you've moved the item to another list), then instead of deleting it, use the Corrections function to replace that item with the new one.
- If there are no "empty" item numbers, then use Add New Item and type it in.

As you can see, the routine is flexible. Use it to keep your lists clean. With this in mind, let's go through each category individually.

Real Estate

For each piece of property, you will be asked to supply the following information:

Date Bought. Six digits are required. Use the format 051367 for May 13, 1967.

Descriptive Name. Enter a short description of the property. For example,

DESCRIPTIVE NAME: HOUSE/LAND
MODEL NO.: 123 MAIN STREET
SERIAL NO.: ANYVILLE ST 99999

Only one line will appear at one time. Ignore the model and serial number prompts. There is a maximum of 17 characters per line, and any line can be left blank by simply pressing RETURN.

Cost. Enter the amount paid if recently purchased; otherwise, enter the current valuation. You should be able to figure the current valuation from your property tax bill or you can get it from your local tax assessor. Use the usual X.XX format.

You will then be asked ANOTHER ITEM? (Y/N). If you have additional items to record, type Y. If you type N, your data will be saved and the Display menu will appear (see Reports for a description of displays available). Don't forget to check for errors.

Because Household Goods is different from the other property categories, let's skip it for now and go on to the next.

Appliances

If it has a serial number, list it here. When you choose Appliances, then Add New Item from the Enter/Change Data Menu, you will be asked the following questions:

Room No. Using the Room Locator Chart, type in the room number where the property is located. To see the chart on the screen, type 0.

Date Bought. Six digits are required. Use the format 051367 for May 13 1967.

Descriptive Name. Enter a short description of the item. For example,

DESCRIPTIVE NAME: HUMIDIFIER
MODEL NO.: 768.1260
SERIAL NO.: 71256C

Model No. Enter the model number of the appliance (limited to 17 characters). The prompt, *Model No.*, isn't included in the 17 characters on this line. Excess characters are dropped.

Serial No. It is very important that you record the serial number. Read it carefully. Again, you are limited to 17 characters.

Cost. Enter the amount paid for this item using the usual X.XX format.

You will then be asked ANOTHER item? (Y/N). The rules are the same as above.

Automobiles

Selecting Automobiles enables you to record pertinent data about your vehicles. You will be asked the same questions as above. Automobiles are assumed to be located in the garage (Room No. 9). List all your vehicles here (motorcycles, lawn tractors, trailers, bicycles, boats, and airplanes, too).

Personal Items

Selecting Personal Items enables you to record your other belongings, such as clothing, jewelry, sports equipment, and other items of a personal nature. You will be asked the same questions as above, but use the model and serial number lines

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to record additional descriptive information. Try to include identifying marks whenever possible. For example,

DESCRIPTIVE NAME: EARRINGS DIAMOND
MODEL NO.: 1 KT OVAL
SERIAL NO.: GOLD SCREW TYPE

Household Goods

When using Household Goods, you will be asked the following:

DISPLAY VALUE ALL HOUSEHOLD GOODS? (Y/N)

If you would like to see the value of household goods in each room of the house, and the total value of all your household goods, type Y. A display will appear on your screen (see Figure 7-3). Note that if you haven't created a list for every room in your house, the red light on your disk drive may start to blink. It's only trying to tell you that it didn't find a list for one or more rooms. You know that already, so just ignore it.

If you want to add a new item or make a correction, answer N. In this case, you will be asked for the room number.

Household Goods is a little different. Unlike the other categories where you are asked the room number each time and for each item, with Household Goods *you can work with only one room at a time*. The property in each room is kept in a separate file which isn't brought into the computer until needed. Consequently, the routine asks you for the room that you're interested in and then loads that file. Having done this, it knows what the room number is and doesn't need to ask again.

Type in a number from 1 to 9 based on the Room Locator Chart. The same Enter/Change Data menu that you've been using with the other property categories will appear. Select Add, Correct, Delete, or Display as desired.

If you select Add New Item, the routine will automatically assign an item identification number. In this case, the first digit of the sequential number is the same as the room number. For example, item 2-234 is the thirty-fourth item on the Household Goods list for the dining room (Room No. 2 on the chart). Since this number is a permanent part of the record, you may mark the item with that number as an aid in identifying and finding it on this list.

You will next be asked the same questions described under Appliances.

Moving an Item Around

Because Household Goods treats each room as a separate property category, household property can't easily be moved from room to room. To do so, you must first delete the item from one room file, then add it to the new room file. Here's how: After entering the room number, delete the item using the Delete function; return to the PROPERTY Menu and choose Household Goods; enter the new room number; add the item using one of the three methods previously described.

Appliances, automobiles, and personal items can be moved directly. Just use Corrections and change the first digit of the item number.

Depreciation

Real estate isn't depreciable. In fact, the opposite is often true. Consequently, whenever your property is revalued you should revise its recorded value using the Corrections function.

On the other hand, household goods, appliances, automobiles, and personal items do lose their value as the years go by—some items, such as automobiles, lose their dollar value quickly. In order for your Balance Sheet to reflect your net worth correctly, the value of these items (recorded at cost) must be reduced to reflect this lost value. This is what depreciation is all about.

There are a number of systems that you can use to depreciate your property. Let's look at the system that's probably been used the longest and is also the simplest—the straight-line method. This method states that an item loses in value the same amount for each year of its life. For example, if a bookcase costs \$110.00 new, and the value at the end of its useful life (the junk value) is \$10.00, the depreciation (the loss in dollar value) is \$100.00.

Assuming a useful life of five years, the annual depreciation is \$20.00 per year (\$100.00 divided by 5). Using this system, you would reduce the recorded value of this item by \$20.00 each year until its recorded value equaled its junk value of \$10.00. There it would stay until you either sold it or threw it out.

Since depreciation must be applied to each item on your lists (except real estate), this ends up being a lot of work. Some people prefer a less time-consuming system; after all, keeping track of your income and expenses is a hobby and a necessity, but you probably don't want to spend every waking hour at it. There is, however, an easier way to handle depreciation.

Take a look around the room you're in right now. Chances are that you will see some items that are new and others that are old enough to throw out but not rare enough to be antiques. It seems fair enough to say that the average age of the objects in the room is at the midlife of usefulness. This is particularly true of automobiles. You've probably heard the saying that as soon as you drive your new car off the dealer's lot, you've just lost a thousand dollars. Often, a car two years old is worth about half what you paid for it (its trade-in value).

This system of depreciation assumes that all items as a group are half-depreciated and that the current value of all items in the room, and in every room in the house, is one half of what you paid and therefore one half of its recorded value. It isn't the most scientific of methods, but it works fairly well.

Depreciation is discussed here, but it isn't applied to the value of your property by this routine. The BALANCE SHEET routine (Chapter 9) will deduct one half the value of your property (other than real estate) as depreciation. This will be done automatically—you don't need to be concerned with depreciation at all. Having learned a little about depreciation, then, you can go ahead and forget it. PAM will take care of it for you.

When the File Is Full

If you have more possessions than PAM allows, delete those of lesser value and replace them with more valuable items or add the extra items in another category—wherever space is available.

In rooms containing many items, list only those items that are durable, identifiable, or of appreciable value. If the number of items still exceeds the limit, put them in a catch-all room (a room that doesn't contain many valuable items such as the bathroom, the spare room, or the attic (especially if your house doesn't have an attic).

Reports

After you've selected the category of property that you are interested in, choose Display and you'll be given a choice of four types of reports available through this routine:

DISPLAY

1. INDIVIDUAL ITEM
2. SUMMARY LISTING
3. VALUE HOUSE/GOODS
4. VALUE ALL PROPERTY

It may seem odd, but to see an individual item, you will probably first need to select Summary Listing to look at the item numbers. Once you know the item number, return to the menu and select Individual Item. You will be asked to type in the item number or ALL. If you want to see only one item, type its number exactly. All the data that you've entered about that item will be displayed. If you typed ALL, each item will be fully displayed, one after the other, until you've seen the full list (see Figure 7-1).

Figure 7-1. Sample Individual Property Report

JOHN & JOAN SMITH
LIVING ROOM

2100

PROPERTY

ITEM NO.: 1-101
BOUGHT: 041585
DESCRIPTION: CHAIR-STUFFED
MODEL NO.: WING
SERIAL NO.: 0
COST: 150.00

Again, selecting 2, Summary Listing, will display the item number, date purchased, description, and value for each item on a list (see Figure 7-2).

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SEVEN**

Figure 7-2. Sample Summary Listing of Property

JOHN & JOAN SMITH 2100
LIVING ROOM

PROPERTY SUMMARY LISTING

<u>ITEM#</u>	<u>BOUGHT</u>	<u>DESCRIPTION</u>	<u>VALUE</u>
1-101	041585	CHAIR-STUFFED	150.00
		TOTAL LIVING ROOM	<u>\$ 150.00</u>

Choosing Value House/Goods, you can see the total value of the goods in each room, then the total for all rooms (all household goods). Figure 7-3 is an example printout.

Figure 7-3. Sample Value of all Household Goods Report

JOHN & JOAN SMITH 24
PROPERTY

VALUE OF HOUSEHOLD GOODS BY ROOM

LIVING ROOM	150.00
DINING ROOM	0.00
KITCHEN	109.00
BATHROOM (S)	0.00
MASTER BEDROOM	2180.00
BEDROOM NO. 2	0.00
BEDROOM NO. 3	0.00
ATTIC	0.00
CELLAR/GARAGE/SHED	495.95
TOTAL HOUSEHOLD GOODS	<u>\$ 2934.95</u>

Item 4, Value All Property, provides a report of the total worth of all your property (figure 7-4).

Figure 7-4. Sample Value of All Property Report

JOHN & JOAN SMITH
PROPERTY

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VALUE ALL PROPERTY

REAL ESTATE	49500.00
HOUSEHOLD GOODS	2934.95
APPLIANCES	619.95
AUTOMOBILES	9608.00
PERSONAL ITEMS	249.95
	<hr/>
TOTAL PROPERTY	\$ 62912.85
	<hr/> <hr/>

And Next Year...

This routine establishes 14 different files so that transferring your property lists over to the next year's disk (which you must do) requires some work. Remember that there are five categories and that Household Goods maintains a file for each room in your house. Here's how to transfer this data onto next year's disk, using Real Estate as an example. Select Real Estate from the PROPERTY menu. When the disk drive stops, remove the data disk from the drive and insert next year's preformatted disk. Use item 2, Corrections, to select any item, and make a no-change correction by pressing RETURN for every line. The disk drive will create this file on the new disk.

Insert last year's data disk and repeat the above process for Appliances, Automobiles, and Personal Items. For Household Goods, answer N to the display prompt, then type in Room No. 1. Use the no-change correction procedure described above to copy the files to the new year's disk, then repeat the procedure for each room.



CHAPTER
EIGHT

Unpaid Bills



Unpaid Bills

We all need to know how much money we owe and to whom. Listing the names of the people you frequently buy from on credit (as in Chapter 1) doesn't mean that you actually owe them money right now. Knowing whom you owe is important. Knowing how much you owe is often a surprise. The shock is usually incentive enough for you to try to get out of debt—and that's generally a good idea.

UNPAID BILLS prepares a list of up to 100 of your unpaid accounts. You should include only those bills that will not be fully paid this month. This routine will then calculate the sum of your debts and display this list and the total on the screen.

Unlike other routines in the system, UNPAID BILLS will not automatically adjust amounts owed as you make payments. Because of differences in interest rates, late charges, and other complications, including this feature would enormously and unnecessarily slow down the program. Since you shouldn't have a long list of creditors anyway, it is much simpler for you to correct this list or prepare a new one whenever you need it.

Getting Started

Selecting UNPAID BILLS from the Main Menu will give you the following options:

UNPAID BILLS

1. VIEW LIST
2. ADD
3. CORRECT
4. DELETE
5. MAIN MENU

View List will display a list of your creditors on the screen, and the amounts you owe each one. This is for the current file. As with the other routines in this program, items 2 through 4 enable you to modify the list.

Also, Add will record the date on which the list was last prepared or updated. To change the date you must add a new item. If you have no new bill to add, then add an artificial one and the current date. Then, select Delete and remove it. The new date will remain.

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When you're finished with this routine, choosing 5 will return you to the Main Menu.

Specifics

Item 2, Add, asks for the current date, and you may use any format that you wish. Next, enter the name of the creditor and the amount you owe. Use your standard list of creditors as a guide so that you won't miss any bills. Don't include any bills that will be paid in full this month.

When you've finished entering your bills, the routine will compute the total. If the amount is larger than you expected, you should review your budget and your overall financial condition to see if something can be done to reduce your indebtedness, since credit costs.

Reports

You can see your list displayed on the screen by selecting View List (see Figure 8-1).

Figure 8-1. Sample List of Unpaid Bills

JOHN & JOAN SMITH
20 FEBRUARY 1985

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UNPAID BILLS

<u>NAME OF CREDITOR</u>	<u>AMOUNT</u>
FILENE	654.78
FIRST NATIONAL BANK	342.75
SMITH'S FURNITURE STORE	2312.89
	<hr/>
TOTAL OWED	\$ 3310.42
	<hr/>

The sum of your unpaid bills will also appear in the Balance Sheet report (Chapter 9), so be sure to update this list before you run the BALANCE SHEET routine.

And Next Year...

After preparing an updated list as of December 31, insert the new year's disk and, using Add, enter a nonexistent bill and the date. Next, use Delete to erase the fake bill. The result will be to save a copy of the list on the new disk.

CHAPTER
NINE

Balance Sheet



Balance Sheet

BALANCE SHEET is one of the two routines that brings your accounting system together. The other is STMNT OF I&E (Chapter 10). The Balance Sheet is a complete report of your financial condition at any given time. It shows your assets, where they are, how much you owe, and your net worth. Consequently, it is *the* financial report. On the other hand, the Statement of Income and Expense, described in the next chapter, reports how much money has come in and how much has gone out. Together, they are the essence of the accounting system.

You can obtain a Balance Sheet at any time, but at the minimum you should get one at the end of each year. Whenever you get a Statement of Income and Expense for the Year or Year to Date, you should also get a Balance Sheet.

In order for your Balance Sheet to be accurate, however, you must first run the following routines:

Routine	Option
ACCOUNT BALANCES	Current Balances
UNPAID BILLS	Unpaid Bills

The results of these routines, among others, are used in preparing your Balance Sheet.

Getting Started

When you choose BALANCE SHEET from the Main Menu, you will be given the following options:

BALANCE SHEET

1. BALANCE SHEET
2. MAIN MENU

Specifics

BALANCE SHEET will ask you to type in the date. You can use any format you like. The routine will then automatically prepare your Balance Sheet and display it on the screen.

First, the routine uses the Current Balances file from ACCOUNT BALANCES. These balances represent your current assets. Next the PROPERTY routine (Chapter 7) displays the value of the various classes of property as your fixed assets.

CHAPTER NINE

Before arriving at your total assets, however, your fixed assets must be adjusted for depreciation.

Your net worth will be overstated if the value of your depreciable property isn't reduced to bring its recorded value more in line with its actual value (see Chapter 7). Depreciation is the amount PAM subtracts from the price you originally paid for your property in order to arrive at what it's worth today. PAM takes half the original cost of your property (real estate excluded) and displays it as depreciation. The value of your total assets can now be calculated and displayed.

BALANCE SHEET next considers your debts, which are obtained from the Unpaid Bills file. The total is listed under Liabilities. The routine subtracts your liabilities from your total assets to arrive at your net worth. Net worth represents your total wealth. If the figure is so large that it exceeds the capacity of this program, you are probably in good shape.

Neither the redemption nor the cash value of your life insurance policies is included. The cash value of your term insurance isn't included in the system, either. If you like, you can add the current value of these into the income account called Other for which you established a DIS code in Chapter 1. The total value of your life insurance policies will then be displayed under that name as part of your current assets.

Otherwise, insurance is treated in this system strictly as an expense. If you have a loss (such as a repair bill to fix a dented fender), record it as an expense. If you receive reimbursement from your automobile, homeowners or other insurance, enter the amount using the ADJUSTMENTS routine of Chapter 4.

Reports

At the end of the year, obtain a BALANCE SHEET for your portfolio of financial records for the year. Figure 9-1 is a sample of this report.

Figure 9-1. Sample Balance Sheet

JOHN & JOAN SMITH
AS OF 31 DECEMBER 1985

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BALANCE SHEET

CURRENT ASSETS:

BUSINESS	23678.82
CASH ACCOUNT	-3462.01
CHECKING	8900.86
CHRISTMAS CLUB	40.00
INVESTMENTS	67999.50
OTHER	0.00
RETIREMENT PLAN	37473.23
SAVINGS ACCOUNT	6329.74

TOTAL CURRENT ASSETS \$ 140960.14

FIXED ASSETS:

REAL ESTATE	49500.00
HOUSEHOLD GOODS	2934.95
APPLIANCES	619.95
AUTOMOBILES	9608.00
PERSONAL ITEMS	249.95
DEPRECIATION	-6706.43

TOTAL FIXED ASSETS \$ 56206.42

TOTAL ASSETS \$ 197166.56

LIABILITIES AND NET WORTH:

UNPAID BILLS 3310.42

NET WORTH 193856.14

TOTAL LIABILITIES AND NET WORTH \$ 197166.56

The Balance Sheet is the bottom line of an accounting program. If you don't have a printer, it is worth copying down the information to keep for your permanent records.



CHAPTER
TEN

Statement of Income and Expense



Statement of Income and Expense

You would probably like to know if your household is running at a profit or a loss, or if you spent more last month than you took in. Statement of Income and Expense is the second of the two routines that define your financial condition (Balance Sheet is the first). The BALANCE SHEET computes what you own, what you owe, and what you're worth. The STMNT OF I&E routine will tell you how good you are at running your financial affairs.

The Statement of Income and Expense report is your profit and loss record. PAM doesn't call it that because individuals don't consider themselves having profits or losses in the usual sense. Instead, think of them as income, expenses, surpluses (you took in more money than you spent), and deficits (the other way around). These terms should be familiar, since the United States is grappling with budget problems of its own. As you can see, this chapter is important.

The Statement of Income and Expense report is a record of what has already happened to your money. But it is more than that. It also helps you know what is happening now, which may help you predict what is to come. For instance, if you find in February that you've already spent your fuel oil allotment for the year, then you've either had a very bad winter or your furnace is in dire need of repair. The Statement of Income and Expense thus alerts you to items that need attention in the months ahead, and you'll have time to do something about them.

Getting Started

When you select STMNT OF I&E from the Main Menu, you will be given the following options:

STATEMENT OF INCOME AND EXPENSE

1. MONTH
2. YEAR TO DATE
3. MAIN MENU

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When you choose Month, PAM will prepare a report showing all items of income and expense, and the totals for each of them for the month. In addition, this report will display the difference between income and expense under the heading of surplus/deficit.

Year to Date provides you with a similar report, but with income and expenses totaled to date. In addition, the Year to Date report takes into account any adjustments you may have made to your accounting system. The importance of this is explained in "Interpreting the Surplus/Deficit" below.

When you're finished with this routine, select item 3 to return to the Main Menu.

Specifics

Select Month and specify the month desired, and PAM will prepare a report showing all items of income, the total income for the month, all items of expense, and the total expense for the month. Because like items are combined, this report constitutes a summary of similar, but separate, reports prepared by the INCOME and EXPENSE routines. In addition, the report displays your surplus or deficit for the month.

If you select Year to Date, PAM will display the following warning on the screen:

THIS REPORT WILL NOT BE ACCURATE UNLESS
THE FOLLOWING ARE UP TO DATE:

ROUTINE OPTION

INCOME YEAR TO DATE

EXPENSE YEAR TO DATE

ARE THESE FILES UP TO DATE? (Y/N)

A report based on incorrect information can be disastrously misleading. Pressing N will return you to the Main Menu where you can proceed to the INCOME and/or EXPENSE routines and bring these files up to date.

When you press Y, you will be asked to type in today's date. You can use any format that you like. PAM will prepare a report showing all items of income, the total income for the year to date, all items of expense, and the total expense for the year to date. Like items of income and expenditure have been combined and summed. In addition, adjustments to income are taken into account in computing the surplus/deficit.

Interpreting the Surplus/Deficit

You can do at least two things that will affect the surplus/deficit figure provided by this routine. Surprisingly, both involve income: adding or removing funds from the system through adjustments, or investing your income. The effect is most severe in the Statement of Income and Expense report for a month.

As you know by now, ADJUSTMENTS (Chapter 4) is used to put money into or to take money out of the system. If you put money into the system using ADJUSTMENTS and then spend it, STATEMENT OF I&E will not show this money on the income side of the report (since it wasn't recorded as income), but will recognize the expenditure and reduce the surplus accordingly. If, on the other hand, you take money out of the system that was originally recorded as income, the STATEMENT OF I&E routine will still show that amount as part of the surplus. For example, if you put pennies from the penny jar into the CHEcking account and then spend them, the pennies aren't recorded as income but as an adjustment to the accounting system (see Chapter 4). However, the expenditure is recorded as an expense.

In this example, the Statement of Income and Expense for the month wouldn't include the pennies on the income side of the report, but would add them on the expense side. The indicated surplus is thus less than it should be.

The second way that an indicated surplus or deficit can be incorrect involves investments. This is because at least some of the money invested came in this year as income. The investment, however, is treated as a transfer and not as an expense, so the Statement of Income and Expense doesn't show that any money has been spent. For example, if you take \$50.00 from your paycheck and buy two shares of stock, your paycheck will be fully recorded and will show up as income in the Statement of Income and Expense. The purchase of stock is an investment and would be recorded using the TRANSFER routine of Chapter 4—not as an expense or expenditure. The resulting Statement of Income and Expense will show a surplus of \$50.00 even though that money is no longer in hand.

An indicated surplus then might not represent cash left over or available to be spent. When interpreting the

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surplus/deficit figure given you by the Statement of Income and Expense report for a MONTH, you should take into account any adjustments you may have made during the month as well as any investments.

Unlike the monthly report, the YEAR TO DATE report does take into account adjustments made to your accounting system. Investments remain a problem, however. What PAM doesn't know is how much of the money that you invested this year came from income and how much came from your Jan 1 Balances. Consequently, even in the Year to Date report, you must remember to allow for the effect of investments in calculating your true surplus or deficit.

As in the example, investments result in an indicated surplus being larger than the actual value. Subtract income invested this year from the indicated surplus (or add it to a deficit) to arrive at the correct value.

Expense Control

Use the Statement of Income and Expense reports in conjunction with Planned Income Versus Actual (Chapter 11) and Planned Expenditures Versus Actual (Chapter 12) reports to assert your control over your expenditures. These reports allow for direct comparisons between what you budgeted and what you actually spent. If your expenditures exceed your budget, it's possible that some cost cutting is in order.

A key to the effectiveness of any cost-cutting action is the worth of the various expenditures. For example, taking a shortcut to work might save you gasoline money, but it might also save you wear and tear on your car, depending on the condition of the road. You may not need to make repairs or buy new tires as often. Consequently, a small savings in gasoline expense coincides with a much larger savings overall.

On the other hand, lowering the thermostat in your home too severely may reduce heating costs, but if you become more susceptible to sickness as a result, your cost-cutting effort will be fruitless. As long as you know the relative worth of your expenditures, you can profit by making even small reductions in expenses. Keep an open eye for sales and discounts and an open mind about whether the expenditure is a necessary one.

It is better to do a regular analysis of your expenditures once a month than to wait several months and then do a detailed study. You can always refine your cost-cutting action as you go along—spending more or less as your analysis indicates.

Be persistent. Sometimes results may be slower to appear than you might like. Keep in mind that for many, only persistent analysis of records and constant action can keep expenses from exceeding income.

Reports

This routine will provide you with a Statement of Income and Expense for a month, which shows your income, expenses, and the resulting surplus/deficit. Prepare a Statement of Income and Expense for each month and place it in your permanent financial record file (see Figure 10-1).

Also available is a Statement of Income and Expense report for Year to Date, which provides you with cumulative income/expense information. This report, when prepared at the end of the year, shows net surplus/deficit for the year. An added feature of this report is that adjustments to income are taken into account so that the indicated surplus/deficit is more correct although it still doesn't take into account income re-directed to investment. Always prepare a Statement of Income and Expense at the end of the year for your permanent financial records (see Figure 10-2).

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Figure 10-1. Sample Monthly Statement of Income and Expense

JOHN & JOAN SMITH
JANUARY 1985

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STATEMENT OF INCOME AND EXPENSE

<u>FROM/TO WHOM</u>	<u>ACT#</u>	<u>AMOUNT</u>
INCOME:		
GTE		\$ 75.00
JONES MFG		\$ 500.00
RCA		\$ 50.00
SAVINGS BANK		\$ 17.39
	TOTAL INCOME	\$ 642.39
EXPENDITURES:		
ALLOWANCE-MINE	6	\$ 80.00
VISA BANK	100	\$ 50.00
LAUNDRY	14	\$ 12.89
UNION DUES	62	\$ 2.00
LIFE INSURANCE	30	\$ 5.00
MEDICAL INSURAN	69	\$ 20.00
TAXES-FICA	3	\$ 35.00
TAXES-STATE	66	\$ 25.00
TAXES-FEDERAL I	2	\$ 100.00
CLOTHES	87	\$ 123.45
MAGAZINES/BOOKS	15	\$ 21.95
FILENE	108	\$ 78.99
POSTAGE	19	\$ 2.00
ENTERTAINMENT	89	\$ 20.00
	TOTAL EXPENSE	\$ 576.28
	SURPLUS (+) / DEFICIT (-)	\$ 66.11

Figure 10-2. Sample Yearly Statement of Income and Expense

JOHN & JOAN SMITH
AS OF 31 DECEMBER 1985

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STATEMENT OF INCOME AND EXPENSE

FROM/TO WHOM	ACT#	AMOUNT
INCOME:		
GTE		\$ 300.00
JONES MFG		\$ 2600.00
RCA		\$ 200.00
SAVINGS BANK		\$ 208.68
	TOTAL INCOME	\$ 26708.68
	NET ADJUSTMENTS	\$ -2364.05
	TOTAL AVAILABLE	\$ 24344.63
EXPENDITURES:		
ALLOWANCE-MINE	6	\$ 4160.00
CLOTHES	87	\$ 856.25
ENTERTAINMENT	89	\$ 266.32
FILENE	108	\$ 261.35
LAUNDRY	14	\$ 645.59
LIFE INSURANCE	30	\$ 260.00
MAGAZINES/BOOKS	15	\$ 93.07
MEDICAL INSURAN	69	\$ 1040.00
POSTAGE	19	\$ 38.80
TAXES-FEDERAL I	2	\$ 5200.00
TAXES-FICA	3	\$ 1820.00
TAXES-STATE	66	\$ 1300.00
UNION DUES	62	\$ 104.00
VISA BANK	100	\$ 600.00
	TOTAL EXPENSE	\$ 16645.38
	SURPLUS (+) / DEFICIT (-)	\$ 7699.25



CHAPTER
ELEVEN

Planned Income



Planned Income

The PLANNED INCOME and PLANNED EXPENDITURES (Chapter 12) routines are for budgeting. While an accounting system will provide you with good financial records, it is these records used in conjunction with a budget that are meaningful. A budget allows you to manage your finances, arrange to have money available for predictable expenses, and know when you have extra money to spend. The PLANNED INCOME routine described in this chapter is what you should use to predict your income for each month (and consequently for the year) and create an income budget. The other side of the budget, expenditures, is treated in Chapter 12.

Once you've prepared a budget, you can also use this routine to compare your predicted income against what you actually received.

You should prepare a budget for the full year. For the first month's budget, write a list of your expected sources of income. Estimate the amount and note the months during which this income is expected. Using PLANNED INCOME as explained below, enter the information into the system.

In the following months, you can add to the existing budget, using either the Planned Income or the Actual Income options to create a budget for each month. Then make changes to each item as needed. Note that changes can be made fairly rapidly (use this technique to quickly rough out your budget for the year, then refine it later if necessary). Review income reports for sources of income that aren't on your From Whom Income Is Received list, but on the from whom income is expected again this year.

Add these names to the system using the PERSONAL DATA routine (Chapter 1), then also add them to your budget using PLANNED INCOME. Using the INCOME routine (Chapter 2), run the INCOME FOR YEAR option. This will give you the total income for the year received from each payer. Where appropriate, calculate an average receipt per month (for cases like interest on your savings) and enter this average amount for each month into your budget.

When you've finished creating a budget for each of the months of the year, select View Plan for Year (explained below). PAM will automatically create your budget for the year.

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Finally, do the PLANNED EXPENDITURE budget using the routine of Chapter 12. This is so that you will be able to obtain the Minimum Required Balance report, which will help you compare planned income against planned expenditures and determine whether sufficient income is expected to be available to pay for all planned expenditures. If not, you will need to revise your income budget, your expense budget, or both. Later, you will use the Minimum Required Balance report to monitor your CHEcking, SAVing, and CASH Account balances. For more information, see Chapter 12.

PLANNED INCOME will accommodate 100 entries per month.

Getting Started

When you select PLANNED INCOME from the Main Menu, you will be given the following options:

PLANNED INCOME

1. ENTER/CHANGE DATA
2. VIEW PLAN FOR MONTH
3. VIEW PLAN FOR YEAR
4. COMPARE
5. MAIN MENU

Select item 1 if you want to create a new budget or make changes to an existing one. Once created, you can see your budget by selecting item 2 or 3. Item 4 will display budgeted versus actual income received.

When you're finished with this routine, select item 5 to return to the Main Menu.

Specifics

Selecting Enter/Change Data yields the following menu:

ENTER/CHANGE DATA

1. START NEW MONTH
2. ADD NEW INCOME
3. CORRECTIONS
4. DELETE
5. PLANNED INCOME MENU

Be careful when you select the Start New Month option, because if data for that month has already been entered, selecting this option will erase that data. If you're not certain if

you've established a file for that month yet, check. To do this, return to the PLANNED INCOME menu by selecting item 5, then call the View Plan for Month subroutine.

After determining that a budget for that month doesn't exist, you will be asked to type in the month (two digits) and the year (four digits) when you select Start New Month. You will then be asked

COPY LAST YEAR'S? (Y/N)

Answer Y if last year's budget for that month or actual income received for that month is available on a data disk using this system, and if the information is approximately what you want to project for this year's budget. If you answer N, after a slight pause to clear itself, PAM will ask you to type in your budget for that month. For each item, you will be asked two questions: FROM WHOM and PLANNED AMOUNT.

For the first, type in the name of the payer exactly as shown on your FROM WHOM Income Is Received list. If you receive more than one check from one payer each month, combine them for the month. For example, if you are paid by the week, multiply your pay by four and enter this item once for each month. (Note: Multiply by five every third month.)

For PLANNED AMOUNT, type in the expected amount. Then answer the prompt

ANOTHER item? (Y/N)

Answer Y if you have additional items. Answer N, and the items entered will be sorted, saved, and displayed for your review. Use Corrections to correct any errors or to make changes.

Using Last Year's Accounting Records

If you answered Y when asked if you wanted to copy last year's data, you will see this prompt:

INSERT DATA DISK. PRESS 'C' WHEN READY.

Insert last year's data disk. You are then given the following prompt:

1. PLANNED
2. ACTUAL INCOME

Choose 1 (last year's budget for that month) or 2 (actual recorded income for that month), whichever comes closest to

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being correct for this year's budget. PAM will load the selected file and then prompt you:

INSERT NEXT YEAR'S DATA DISK. PRESS 'C' WHEN READY.

PAM will then save the appropriate file as a Planned Income file for that month on next year's disk. Your budget for that month has now been created and you need do nothing further. To help you be sure of that, you will be returned to the PLANNED INCOME menu where you can use View Plan for Month to see this budget, or Enter/Change Data to change it.

Whichever technique you use to prepare your first draft of a month's budget, selecting Add New Income will permit you to add additional items to that budget. Also, the Corrections and Delete options work the same as in the INCOME routine described in Chapter 2. Use these to further refine your budget.

View Planned Income

Returning to the PLANNED INCOME menu and selecting View Plan for Month will enable you to see all your entries for a month. You will be asked to type in the month number (two digits). Use this routine whenever you want to see your budget for any month.

Selecting View Plan for Year will cause PAM to run through all your planned income entries, combining those where the From Whom Received name is exactly the same, summing up and displaying the result on the screen. This is your budget for the year.

Review each month carefully, then the budget for the year as a whole. Once you're satisfied, *do not change your budget during the year*. The budget is the basis against which financial performance is judged and must remain constant throughout the year.

Compare

Selecting Compare will give you the following menu:

COMPARATIVE REPORTS

1. MONTH
2. YEAR TO DATE
3. PLANNED INCOME MENU

Naturally, you must first establish a budget for the month under consideration before you can select the Compare option.

Since you should prepare your budget for all 12 months at one time, the above warning appears unnecessary. Nevertheless, if the routine doesn't work, look to see if you've missed a month.

Selecting Month will provide you with a comparison between the budgeted and actual income received for any month. Also given will be the difference for each item and between the total budget for the month and the total income received for the month. This allows you to see if expected income wasn't received (or received but not recorded) and if the amount received was more or less than expected. Use the results of this display to adjust your expenditures accordingly.

Year to Date will combine income received from like payers for the year to date and display a report similar to that described above. The differences given here represent income still to be received this year. This is because budgeted amounts are for the full year, while actual amounts are for year to date. This display is of major importance mainly at year's end.

Reports

The Planned Income for Month report is for budgeting and temporary record keeping. Use it to tell how much and from whom income is anticipated this month. Also, use a hard copy of it to check off income as it is received, then transfer the data to the computer when convenient. One such report can be generated for each month. Figure 11-1 shows the form of this report.

Figure 11-1. Sample Planned Income for Month Report

JOHN & JOAN SMITH
JANUARY 1985

210

FROM WHOM	PLANNED INCOME		+/-
	PLANNED	ACTUAL	
GTE	73.00		
JONES MFG	2000.00		
RCA	50.00		
SAVINGS BANK	16.00		
TOTAL \$	2139.00		

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ELEVEN

Figure 11-2 shows the PLANNED INCOME FOR MONTH report including actual income and net gain/loss for the month. This is for comparing budgeted versus actual income received. One such report can be generated for each month.

Figure 11-2. Sample Net Gain Income for Month Report

JOHN & JOAN SMITH 210
JANUARY 1985

FROM WHOM	PLANNED INCOME		+/-
	PLANNED	ACTUAL	
GTE	73.00	75.00	2.00
JONES MFG	2000.00	500.00	-1500.00
RCA	50.00	50.00	0.00
SAVINGS BANK	16.00	17.39	1.39
TOTAL \$	2139.00	642.39	-1496.61

Figures 11-3 and 11-4 show similar reports for the year.

Figure 11-3. Sample Planned Income for Year Report

JOHN & JOAN SMITH 110
1985

FROM WHOM	PLANNED INCOME		+/-
	PLANNED	ACTUAL	
GTE	292.00		
JONES MFG	24000.00		
RCA	200.00		
SAVINGS BANK	192.00		
TOTAL \$	24684.00		

Figure 11-4. Sample Net Gain Income for Year Report

JOHN & JOAN SMITH
UP TO 123185

111

FROM WHOM	PLANNED INCOME		+/-
	PLANNED	ACTUAL	
GTE	292.00	300.00	8.00
JONES MFG	24000.00	26000.00	2000.00
RCA	200.00	200.00	0.00
SAVINGS BANK	192.00	208.68	16.68
TOTAL	24684.00	26708.68	2024.68

And Next Year...

After you've created a disk for next year, as described in Chapter 1, review this year's budget against actual amounts, revise, and put the new budget on the new disk using this routine.



CHAPTER
TWELVE

Planned Expenditures



Planned Expenditures

As described in Chapter 11, the PLANNED INCOME and PLANNED EXPENDITURES routines are for budgeting. You use the routine of Chapter 11 to predict your income for each month (and consequently your income for the year) and to create an income budget. In this chapter we will look at what some consider the dark side of the budget—expenditures.

Needless to say, it is probably not wise to spend money indiscriminately, using the accounting system merely to record the fact that your money is gone. The expenditures side of the budget is therefore important. You can often do little to increase income, but you can do a lot to control expenditures.

PLANNED EXPENDITURES allows you to predict how much you can spend, what you will spend it for, and whether you can afford to spend money in the first place. Once you've prepared your budget, you can also use PLANNED EXPENDITURES to compare predicted expenditures against actual disbursements.

Another feature of PLANNED EXPENDITURES is the Minimum Required Balance report. There will be months when planned expenditures exceed income. To prepare for these eventualities, it is a good idea to save ahead. The Minimum Required Balance report tells you how much money you must have at the end of each month in order for you to have enough money available for the months ahead.

To prepare an expense budget, you should first make a list of your monthly payments (automobile, mortgage, and so on), property tax (estimated amount and when payable), memberships or other dues you pay (and when), magazine subscription renewals, and any other expenditure you can think of that you are likely to make this year. A good place to look is your checkbook log or last year's canceled checks.

Compare your list against your Standard List of Expense Accounts. Using the routine described in Chapter 1, set up any new expense accounts needed. *You cannot budget for any expense for which no expense account exists.* You must establish the account first using the routine in Chapter 1.

Combine like items and make one entry per month. For

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example, if you get an allowance every week, multiply by four and enter it once a month. Using this routine as explained below, enter the information into the system.

Once you have an existing budget, you can either use the Planned Expenditures or the Actual Expenditures option to create a budget for a month, then make changes to each item as needed. Note that changes can be made fairly rapidly. Consequently, use this technique to quickly rough out your budget for the year, then refine it if needed. Review expense reports for expenditures that you anticipate will occur again this year. Add them to your budget using this routine.

Using the EXPENSE routine (Chapter 3), run the Expense for Year option. This will give you the total expense for the year for such items as contributions, hobbies, tapes, records, and any other items that you buy intermittently, but that warrant keeping a financial accounting. Calculate an average and enter this amount for each month into your budget.

When you've finished creating a budget for each of the months of the year, select View Plan for Year (explained below). PAM will automatically create your budget for the year.

If you haven't already, do the PLANNED INCOME budget using the routine from Chapter 11.

The PLANNED EXPENDITURES routine will accommodate 100 entries per month.

Getting Started

When you select item M, PLANNED EXPENDITURES, from the Main Menu, you will be given the following options:

PLANNED EXPENDITURES

1. ENTER/CHANGE DATA
2. VIEW PLAN FOR MONTH
3. VIEW PLAN FOR YEAR
4. COMPARE
5. MIN REQD BALANCE
6. MAIN MENU

Select item 1 if you want to create a new budget or make changes to an existing one. Once your budget is created, you can see it by selecting item 2 or 3. Item 4 will display budgeted versus actual expenditures. Selecting Min Req'd Balance will create a special report that predicts the amount of money you need to have at the end of each month to see you through

the year. When you're finished with this routine, select item 6 to return to the Main Menu.

Specifics

Selecting item 1, Enter/Change DATA, yields the following menu:

ENTER/CHANGE DATA

1. START NEW MONTH
2. ADD NEW EXPENSE
3. CORRECTIONS
4. DELETE
5. PLANNED EXP MENU

Be careful when selecting the Start New Month option. If data for that month has already been entered, selecting this option will erase that data. If you're not certain if you've established a file for that month yet, check by returning to the Planned Expense menu and selecting item 5, then calling the View Plan for Month routine (item 2).

Having determined that a budget for that month doesn't exist, when you select Start New Month, you will be asked to type in the month (two digits) and then the year (four digits). You will then be asked

COPY LAST YEAR'S? (Y/N)

Answer Y if last year's budget for that month or actual expenses incurred for that month are available on a data disk using this system, and if the information is approximately what you want to project for this year's budget. If you answer N, after a slight pause for the computer to clear itself, you will be asked to type in your budget for the month. For each item, you will be asked for the following:

Account Number. Use a number from your Standard List of Expense Accounts. The routine will automatically add the account name.

Planned Amount. Type in the expected amount. Then you'll be asked if you want

ANOTHER ITEM? (Y/N)

You know what to do by now. (N will sort, save, and display.) Use Corrections to fix any errors or make changes.

CHAPTER TWELVE

Using Last Year's Accounting Records

If you answer Y when asked if you want to copy last year's data, you will see this prompt:

INSERT DATA DISK. PRESS 'C' WHEN READY.

You are then given the following choice:

1. PLANNED
2. ACTUAL EXPENSE

Choose 1 (last year's budget for that month) or 2 (actual recorded expenditures for that month), whichever comes closer to being correct for this year's budget. PAM will load the selected file and then instruct

INSERT NEXT YEAR'S DATA DISK. PRESS 'C' WHEN READY.

PAM will save the appropriate file as a Planned Expenditures file for that month on next year's disk. Your budget for that month has now been created and you need do nothing further. To help you be sure of that, you will be returned to the PLANNED EXPENDITURES menu where you can use View Plan for Month to see this budget or Enter/Change Data to alter it.

Whichever technique you use to prepare your first draft of a month's budget, selecting Add New Expense will permit you to add additional items to that budget. The Corrections and Delete options work the same as in the EXPENSE routine described in Chapter 3. Use these to refine your budget.

View Planned Expense

Returning to the PLANNED EXPENDITURES menu, View Plan for Month will enable you to see all your entries for a month. You will be asked to type in the month number (two digits). Use this routine whenever you want to see your budget for any month.

Choosing View Plan for Year will cause PAM to run through all your planned expenditure entries, combining those where the expense accounts are the same, and summing and displaying the result on the screen. This is your expense budget for the year.

Review each month carefully, then the budget for the year as a whole. Once you're satisfied, *do not change your budget during the year.* The budget is the basis against which financial

performance is judged and it should remain constant throughout the year.

Compare

Compare will give you the following menu:

COMPARATIVE REPORTS

1. MONTH
2. YEAR TO DATE
3. PLANNED EXP MENU

Naturally, you must first establish a budget for the month under consideration before you can select the COMPARE option. Since you should prepare your budget for all 12 months at a time, the above warning appears unnecessary. *Nevertheless, if the routine doesn't work, see if you've missed a month.*

Selecting Month will provide you with a comparison between the budgeted and actual expenses incurred for any month as well as the difference. This allows you to see if anticipated expenditures did not occur (or if the money was spent but not recorded), and if the amount spent was more or less than expected. Use the results of this display to start looking for another job or adjust your expenditures accordingly.

Year to Date will combine similar expenses and give you a report for the year in the same format as described above. The request for Current Month and Current Date is only to record the date that the report was prepared. The differences given here represent expenses still to be made this year. This is because budgeted amounts are for the full year, while actual amounts are for year to date. This display is of major importance primarily at year's end.

Minimum Required Balance

The Minimum Required Balance report is a special feature of PAM. This helps you compare planned income against planned expenditures and determine whether sufficient income is expected to be available to support your planned expenditures. But there's more to it than that. This report tells you how much money you must have at the end of any month in order to pay your budgeted expenses for the rest of the year.

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Before the Minimum Required Balance report can be prepared, you must first create an income budget for each month of the year, an income budget for the year, an expense budget for each month of the year, and an expense budget for the year. Use the procedures already described. Then, select item 5 and PAM will automatically prepare this report.

Reports

The Planned Expense for Month report is for budgeting and temporary record keeping. Use it to tell you what expenditures are anticipated this month. Also, use a hard copy of it to check off expenditures as they occur, then transfer the data to the computer when convenient. One such report can be generated for each month (see Figure 12-1).

Figure 12-1. Sample Planned Expenditures for Month Report

JOHN & JOAN SMITH
JANUARY 1985

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<u>PLANNED EXPENDITURES</u>			
<u>ACCOUNT</u>	<u>PLANNED</u>	<u>ACTUAL</u>	<u>+/-</u>
ALLOWANCE-HERS	80.00		
ALLOWANCE-MINE	80.00		
ELECTRICITY	30.00		
EXXON	35.00		
FIRST NATIONAL	50.00		
FOOD	480.00		
LAUNDRY	15.00		
LIFE INSURANCE	20.00		
MAGAZINES/BOOKS	20.00		
MEDICAL INSURAN	80.00		
SMITH'S FURNITU	50.00		
TAXES-FEDERAL I	400.00		
TAXES-FICA	140.00		
TAXES-STATE	100.00		
TELEPHONE	20.00		
UNION DUES	8.00		
TOTAL \$	1608.00		

Figure 12-2 shows the Planned Expenditures for Month report including actual expenditures and net gain/loss for the month. You can use this for comparing budgeted expenditures with actual expenditures. One such report can be generated for each month.

Figure 12-2. Sample Net Gain Expenditures for Month Report

JOHN & JOAN SMITH
JANUARY 1985

211

<u>PLANNED EXPENDITURES</u>			
<u>ACCOUNT</u>	<u>PLANNED</u>	<u>ACTUAL</u>	<u>+/-</u>
ALLOWANCE-HERS	80.00		80.00
ALLOWANCE-MINE	80.00	80.00	0.00
ELECTRICITY	30.00		30.00
EXXON	35.00		35.00
FIRST NATIONAL	50.00		50.00
FOOD	480.00		480.00
LAUNDRY	15.00	12.89	2.11
LIFE INSURANCE	20.00	5.00	15.00
MAGAZINES/BOOKS	20.00	21.95	-1.95
MEDICAL INSURAN	80.00	20.00	60.00
SMITH'S FURNITU	50.00		50.00
TAXES-FEDERAL I	400.00	100.00	300.00
TAXES-FICA	140.00	35.00	105.00
TAXES-STATE	100.00	25.00	75.00
TELEPHONE	20.00		20.00
UNION DUES	8.00	2.00	6.00
VISA BANK		50.00	-50.00
CLOTHES		123.45	-123.45
FILENE		78.99	-78.99
POSTAGE		2.00	-2.00
ENTERTAINMENT		20.00	-20.00
TOTAL \$	1608.00	576.28	1031.72

Figures 12-3 and 12-4 show similar reports for the year.

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Figure 12-3. Sample Planned Expenditures for Year Report

JOHN & JOAN SMITH
1985

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<u>PLANNED EXPENDITURES</u>			
<u>ACCOUNT</u>	<u>PLANNED</u>	<u>ACTUAL</u>	<u>+/-</u>
ALLOWANCE-DAD	880.00		
ALLOWANCE-HERS	80.00		
ALLOWANCE-MINE	80.00		
ALLOWANCE-MOM	880.00		
ELECTRICITY	360.00		
EXXON	420.00		
FIRST NATIONAL	600.00		
FOOD	5760.00		
LAUNDRY	180.00		
LIFE INSURANCE	240.00		
MAGAZINES/BOOKS	240.00		
MEDICAL INSURAN	960.00		
SMITH'S FURNITU	600.00		
TAXES-FEDERAL I	4800.00		
TAXES-FICA	1680.00		
TAXES-STATE	1200.00		
TELEPHONE	240.00		
UNION DUES	96.00		
TOTAL	<u>19296.00</u>		

Figure 12-4. Sample Net Gain Expenditures for Year Report

JOHN & JOAN SMITH
UP TO 31DECEMBER85

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ACCOUNT	PLANNED EXPENDITURES		+/-
	PLANNED	ACTUAL	
ALLOWANCE-DAD	880.00	4080.00	-3200.00
ALLOWANCE-HERS	80.00		80.00
ALLOWANCE-MINE	80.00	80.00	0.00
ALLOWANCE-MOM	880.00		880.00
ELECTRICITY	360.00		360.00
EXXON	420.00		420.00
FIRST NATIONAL	400.00		400.00
FOOD	5760.00		5760.00
LAUNDRY	180.00	645.59	-465.59
LIFE INSURANCE	240.00	260.00	-20.00
MAGAZINES/BOOKS	240.00	93.07	146.93
MEDICAL INSURAN	960.00	1040.00	-80.00
SMITH'S FURNITU	600.00		600.00
TAXES-FEDERAL I	4800.00	5200.00	-400.00
TAXES-FICA	1680.00	1820.00	-140.00
TAXES-STATE	1200.00	1300.00	-100.00
TELEPHONE	240.00		240.00
UNION DUES	96.00	104.00	-8.00
VISA BANK		600.00	-600.00
CLOTHES		856.25	-856.25
FILENE		261.35	-261.35
POSTAGE		38.80	-38.80
ENTERTAINMENT		266.32	-266.32
TOTAL	\$ 19296.00	16645.38	2650.62

Figure 12-5 shows a sample Minimum Required Balance report. Notice that planned income exceeds planned expenditures for January and February, so no balance is required at the end of these months. Planned income exceeds planned expenditures in March as well, but not in April. Consequently, you must have at least \$490.66 available at the end of March to carry you through April.

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Figure 12-5. Sample Minimum Required Balance Report

JOHN & JOAN SMITH
1984

550

<u>MINIMUM REQUIRED BALANCE</u>			
<u>MONTH</u>	<u>PLNINC</u>	<u>PLNEXP</u>	<u>REQD BAL</u>
JANUARY	2139.00	1608.00	0.00
FEBRUARY	2680.07	1702.35	0.00
MARCH	2053.59	1504.00	490.66
APRIL	2513.34	3004.00	0.00
MAY	2067.57	1906.35	0.00
JUNE	2766.09	2640.00	0.00
JULY	1919.59	1654.00	0.00
AUGUST	2680.07	1502.35	426.41
SEPTEMBER	2053.59	2480.00	0.00
OCTOBER	2513.34	1619.00	122.69
NOVEMBER	2067.57	1706.35	483.91
DECEMBER	<u>2766.09</u>	<u>3250.00</u>	0.00
TOTAL	<u>\$ 28219.91</u>	<u>24576.40</u>	

October, November, and December are a little different. Note that you will be short \$483.91 for December, but for November planned income exceeds planned expenditures by only \$361.22; you therefore need \$122.69 from October to carry you through the rest of the year.

These balances must show up in your CHEcking, SAVing, or CASH Account balance. Use the ACCOUNT BALANCES routine (Chapter 5) at the end of the month to verify. If that amount is not there, this report predicts that you will run out of money and you have a little time to do something about it.

And Next Year...

After you've created a disk for next year (as explained in Chapter 1), review this year's budget against actual amounts, then, using this routine, revise, and put the new budget on the new disk.

CHAPTER
THIRTEEN

Back-Up Files



Back-Up Files

Once you've established your accounting system, what else is there to do? *Protect your information.* No, I don't think you need to worry about spies wanting your data disk or even your copy of PAM. You should, however, worry about accidentally losing your data through a procedural error, coffee spills, or physical damage. The protection you need is a back-up disk.

Use the back-up routine at the end of every month to make a copy of your data disk for safekeeping. This is a worthwhile safety precaution. Don't rely on having only one copy of your accounting data.

The reason for a back-up disk is that you can use it if, for any number of reasons, the primary disk malfunctions. Of course, data entered into the system since the back-up disk was last prepared will be missing. You should make a back-up disk only at a logical stopping point—such as the end of a month—so that you can determine exactly what is missing.

By making a back-up disk at the end of each month, you will know that you've recovered everything up to that point. Simply reenter this month's data and you're back in business. Naturally, you'll also need to find out what went wrong with the primary disk to prevent it from happening again.

You can use the same disk as your back-up disk over and over again throughout the year. Since disks wear out, however, start the new year with both a new data disk and a new back-up disk.

This routine cannot be used to set up or format next year's data disk. To do that, use the disk formatting instructions in your disk drive manual.

Specifics

Select BACK-UP FILES from the Main Menu. You will be asked to type in the year. Since this routine is used only to make a back-up copy of this year's accounting data, type in the current year (four digits).

You will then be asked to INSERT DATA DISK. The data disk is the original—the disk that you wish to copy. This routine will read and henceforth identify it as the original so that you won't inadvertently insert the wrong disk later on in the

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process. Insert the data disk into the disk drive and press the space bar.

The next prompt is INSERT BACK-UP DISK. If you haven't made a back-up disk yet this year, just insert a new disk into the disk drive. You don't need to format the disk—this routine will format it for you automatically. The disk name will be BACK-UP with the year added, and the ID number will be SHIFT-£2. If you've already made a back-up disk this year, insert it and press the space bar. The prompts will alternate until you've completed the copying process.

Put the back-up disk in a safe place. Never use it as your main data disk. The routine will not recognize the back-up disk as the data disk and will refuse to copy to it. This routine has been specifically devised to satisfy the needs of this system. Do not use it for any other purpose.

And Next Year...

You cannot use this routine to create a new data disk for next year. Instead, use the standard disk commands and procedure detailed under "And Next Year..." in Chapter 1.

Don't forget to make frequent back-ups. At the end of each month, use this routine to make a back-up disk of your accounting data. The same disk can be used over and over again throughout the year.

CHAPTER
FOURTEEN

PAM Program Listings



PAM Program Listings

A Beginner's Guide to Typing In Programs

A computer cannot perform any task by itself. Like a car without gas, a computer has *potential*, but without a program, it isn't going anywhere. Most of the programs published in this book are written in a computer language called BASIC, which is easy to learn and is built into all Commodore 64s.

BASIC Programs

Computers can be picky. Unlike the English language, which is full of ambiguities, BASIC usually has only one right way of stating something. Every letter, character, and number is significant. A common mistake is substituting the letter *O* for the numeral *0*, a lowercase *l* for the numeral *1*, or an uppercase *B* for the numeral *8*. Also, you must enter all punctuation marks, such as colons and commas, just as they appear in the book. Spacing can be important. To be safe, type in the listings *exactly* as they appear.

Braces and Special Characters

The exception to this typing rule is when you see the braces, such as {DOWN}. Anything within a set of braces is a special character or characters that cannot easily be listed on a printer. When you come across such a special statement, refer to "How to Type In Programs" below.

About DATA Statements

Some programs contain a section or sections of DATA statements. These lines provide information needed by the program. Some DATA statements contain actual programs (in machine language), while others may contain graphics codes. These lines are especially sensitive to errors.

If a single number in any one DATA statement is mistyped, your machine could lock up, or crash. The keyboard and RUN/STOP key may seem dead, and the screen may go

blank. But don't panic. No damage has been done. To regain control, turn off your computer and then turn it back on. This will erase whatever program was in memory, *so always save a copy of your program before you run it.* If your computer crashes, you can load the program and look for your mistake.

Sometimes a mistyped DATA statement will cause an error message when the program is run. The error message may refer to the program line that reads the data. *However, the error is still in the DATA statements.*

Get to Know Your Machine

You should familiarize yourself with your computer before attempting to type in a program. Learn the statements you use to store and retrieve programs from disk. Of course, you'll want to save a copy of your program so that you won't have to type it in every time you want to use it. Learn to use your machine's editing functions. How do you change a line if you make a mistake? You can always retype the line, but you should at least know how to backspace. Do you know how to enter reverse-video, lowercase, and control characters? It's all explained in your manual.

In order to insure accurate entry of each program line, we've included a *checksum* program. Please read "The Automatic Proofreader" below before typing in any of the programs in this book.

A Quick Review

1. Type in the program a line at a time in order. Press RETURN at the end of each line. Use INST/DEL or the cursor keys to correct mistakes.
2. Check the line you've typed against the line in the book. You can check the entire program again if you get an error when you run the program.

How to Type In Programs

Many of the programs in this book contain special control characters (cursor controls, color keys, reverse video, and so on). To make it easy to know exactly what to type when entering one of these programs into your computer, we've established the following listing conventions.

Generally, 64 program listings will contain words within braces which spell out any special characters: {DOWN} means to press the cursor-down key; {5 SPACES} means to press the space bar five times. To type {SHIFT-SPACE}, simply hold down the SHIFT key while pressing the space bar.

To indicate that a key should be *shifted* (hold down the SHIFT key while pressing the other key), the key will be underlined in our listings. For example, S means to type the S key while holding the SHIFT key. This will appear on your screen as a heart symbol. If you find an underlined key enclosed in braces (for example, {10 N}), you should type the key as many times as indicated. In this case, you would enter ten shifted N's.

If a key is enclosed in special brackets, [<>], you should hold down the *Commodore key* while pressing the key inside the special brackets. (The Commodore key is the key in the lower-left corner of the keyboard.) Again, if the key is preceded by a number, you should press the key as many times as necessary.

Rarely, in programs for the 64, you'll see a solitary letter of the alphabet enclosed in braces. These characters can be entered by holding down the CTRL key while typing the letter in the braces. For example, {A} indicates that you should press CTRL-A.

Quote Mode

You know that you can move the cursor around the screen with the CRSR keys. Sometimes a programmer will want to move the cursor under program control. That's why you see all the {LEFT}'s, {HOME}'s, and {BLU}'s in our programs. The only way the computer can tell the difference between direct and programmed cursor control is the quote mode.

Once you press the quote (the double quote, SHIFT-2), you are in the quote mode. If you type something and then try to change it by moving the cursor left, you'll only get a bunch of reverse-video lines. These are the symbols for cursor left. The only editing key that isn't programmable is the INST/DEL key; you can still use INST/DEL to back up and edit the line. Once you type another quote, you are out of quote mode.

You also go into quote mode when you INSerT spaces into a line. In any case, the easiest way to get out of quote

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mode is just to press RETURN. You'll then be out of quote mode and you can cursor up to the mistyped line and fix it.

To insure accurate entry of each program line, we've included a checksum program. Please read "The Automatic Proofreader" below before typing in any of the programs in this book.

Refer to the following table when entering cursor and color control keys:

When You Read:	Press:	See:	When You Read:	Press:	See:
{CLR}	SHIFT CLR/HOME		{ F1 }	COMMODEORE f1	
{HOME}	CLR/HOME		{ F2 }	SHIFT COMMODEORE f1	
{UP}	SHIFT ↑ CRSR ↓		{ F3 }	COMMODEORE f3	
{DOWN}	↑ CRSR ↓		{ F4 }	SHIFT COMMODEORE f3	
{LEFT}	SHIFT ← CRSR →		{ F5 }	COMMODEORE f5	
{RIGHT}	← CRSR →		{ F6 }	SHIFT COMMODEORE f5	
{RVS}	CTRL 9		{ F7 }	COMMODEORE f7	
{OFF}	CTRL 0		{ F8 }	COMMODEORE f8	
{BLK}	CTRL 1		←		
{WHT}	CTRL 2		↑	SHIFT	
{RED}	CTRL 3				
{CYN}	CTRL 4				
{PUR}	CTRL 5				
{GRN}	CTRL 6				
{BLU}	CTRL 7				
{YEL}	CTRL 8				

The Automatic Proofreader

Charles Brannon

"The Automatic Proofreader" will help you type in program listings without typing mistakes. It is a short error-checking program that hides itself in memory. When activated, it lets you know immediately after you type a line from a program listing if you've made a mistake. Please read these instructions carefully before typing any programs in this book.

Preparing the Proofreader

1. Using the listing below, type in the Proofreader. Be very careful when entering the DATA statements—don't type an *l* instead of a 1, an *O* instead of a 0, extra commas, and so forth. You may want to toggle between the uppercase/lowercase and the uppercase/graphics character sets (by pressing the Commodore and SHIFT keys together). Since letters will change shape and numbers will not, it is easy to find characters mistakenly placed in long lists of numbers.
2. Save the Proofreader on disk at least twice *before running it for the first time*. This is very important because the Proofreader erases part of itself when you first type RUN.
3. After the Proofreader is saved, type RUN. It will check itself for typing errors in the DATA statements and warn you if there's a mistake. Correct any errors and save the corrected version. Keep a copy in a safe place—you'll need it again and again, every time you enter a program from this book, *COMPUTE!* magazine, or *COMPUTE!'s Gazette*.
4. When you have a correct version of the Proofreader, it activates itself. You are now ready to enter a program listing. If you press RUN/STOP-RESTORE, the Proofreader is disabled. To reactivate it, just type the command SYS 886 and press RETURN.

Using the Proofreader

The program listings in this book have a *checksum number* appended to the end of each line, for example, *:rem 123*. *Don't enter this statement when typing in a program*. It is just for your information. The rem makes the number harmless if someone does type it in. It will, however, use up memory if you enter

it, and it will confuse the Proofreader even if you entered the rest of the line correctly.

When you type in a line from a program listing and press RETURN, the Proofreader displays a number at the top of your screen. *This checksum number must match the checksum number in the printed listing.* If it doesn't, it means you typed the line differently from the way it is listed. Immediately re-check your typing. Remember, don't type the rem statement with the checksum number; it is published only so that you can check it against the number which appears on your screen.

The Proofreader isn't picky about spaces. It will not notice extra spaces or missing ones. This is for your convenience since spacing is generally not important. But occasionally proper spacing *is* important, so be extra careful with spaces, especially when they are inside quotation marks.

Due to the nature of a checksum, the Proofreader will not catch all errors. Since $1 + 3 + 5 = 3 + 1 + 5$, the Proofreader cannot catch errors of transposition. Thus, the Proofreader will not notice if you type GOTO 385 where you mean GOTO 835. In fact, you could type the line in any order and the Proofreader wouldn't notice. The Proofreader should help you catch most typing mistakes, but keep this in mind if a program that checks out with the Proofreader still seems to have errors.

There's another thing to watch out for: If you enter the line by using abbreviations for commands, the checksum will not match up. But there is a way to make the Proofreader check it. After entering the line, LIST it. This will eliminate the abbreviations. Then move the cursor up to the line and press RETURN. It should now match the checksum. You can check whole groups of lines this way.

Special Tape SAVE Instructions

If you want to make a backup copy of the Proofreader on a tape, you need to do the following. (Remember that PAM works only if you own a disk drive, though.) When you're through typing in a listing, you must disable the Proofreader before saving the program on tape. Disable the Proofreader by pressing RUN/STOP-RESTORE (hold down the RUN/STOP key and sharply hit the RESTORE key). *This procedure isn't necessary for disk SAVES, but you must disable the Proofreader this way before a tape SAVE.*

SAVE to tape erases the Proofreader from memory, so you'll have to load and run it again if you want to type another listing. SAVE to disk doesn't erase the Proofreader.

Hidden Perils

The Proofreader's home in memory isn't a very safe haven. Since the cassette buffer is wiped out during tape operations, you need to disable the Proofreader with RUN/STOP-RESTORE before you save your program. This applies only to tape use. Disk users have nothing to worry about.

Not so for 64 owners with tape drives. What if you type in a program in several sittings? The next day, you come to your computer, load and run the Proofreader, then try to load the partially completed program so that you can add to it. But since the Proofreader is trying to hide in the cassette buffer, it is wiped out!

What you need is a way to load the Proofreader after you've loaded the partial program. The problem is a tape LOAD to the buffer destroys what it's supposed to load.

After you've typed in and run the Proofreader, enter the following three lines in direct mode (without line numbers) exactly as shown:

```
A$="PROOFREADER.T": B$="{10 SPACES}": FOR X = 1
  TO 4: A$=A$+B$: NEXTX
FOR X = 886 TO 1018: A$=A$+CHR$(PEEK(X)): NEXTX
OPEN 1, 1,1,A$:CLOSE1
```

After you enter the last line, you will be asked to press RECORD and PLAY on your cassette recorder. Put this program at the beginning of a new tape. This gives you a new way to load the Proofreader. Anytime you want to bring the Proofreader into memory without disturbing anything else, put the cassette in the tape drive, rewind, and enter

```
OPEN1:CLOSE1
```

You can now start the Proofreader by typing SYS 886. To test this, PRINT PEEK (886) should return the number 173. If it doesn't, repeat the steps above, making sure that A\$ ("PROOFREADER.T") contains 13 characters and that B\$ contains ten spaces.

You can now reload the Proofreader into memory whenever LOAD or SAVE destroys it, restoring your personal typing helper.

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```
100 PRINT "{CLR}PLEASE WAIT...":FORI=886 TO 1018:READ
A:CK=CK+A:POKEI,A:NEXT
110 IF CK<>17539 THEN PRINT "{DOWN}YOU MADE AN ERRO
R":PRINT "IN DATA STATEMENTS.":END
120 SYS886:PRINT "{CLR}{2 DOWN}PROOFREADER ACTIVATE
D.":NEW
886 DATA 173,036,003,201,150,208
892 DATA 001,096,141,151,003,173
898 DATA 037,003,141,152,003,169
904 DATA 150,141,036,003,169,003
910 DATA 141,037,003,169,000,133
916 DATA 254,096,032,087,241,133
922 DATA 251,134,252,132,253,008
928 DATA 201,013,240,017,201,032
934 DATA 240,005,024,101,254,133
940 DATA 254,165,251,166,252,164
946 DATA 253,040,096,169,013,032
952 DATA 210,255,165,214,141,251
958 DATA 003,206,251,003,169,000
964 DATA 133,216,169,019,032,210
970 DATA 255,169,018,032,210,255
976 DATA 169,058,032,210,255,166
982 DATA 254,169,000,133,254,172
988 DATA 151,003,192,087,208,006
994 DATA 032,205,189,076,235,003
1000 DATA 032,205,221,169,032,032
1006 DATA 210,255,032,210,255,173
1012 DATA 251,003,133,214,076,173
1018 DATA 003
```

PAM

Remember to use the name above for the program you place on the PAM master disk.

```
20 POKE53280,5:POKE53281,5:POKE646,1           :rem 39
30 PRINT "{CLR}":PRINTCHR$(8)CHR$(142)         :rem 1
40 PRINTTAB(15)" {5 DOWN}COMPUTE!'S"           :rem 208
50 PRINTTAB(16)" {2 DOWN}PERSONAL"             :rem 75
60 PRINTTAB(15)" {2 DOWN}ACCOUNTING"          :rem 210
70 PRINTTAB(16)" {2 DOWN}MANAGER"              :rem 228
80 FORD=1 TO 2000:NEXT                           :rem 223
90 CK=0:PRINT "{5 DOWN}ONE MOMENT PLEASE. . . "; :rem 245
100 FORI=828 TO 894                               :rem 232
110 READD:POKEI,D:CK=CK+D:NEXT:PRINT ". . . "; :rem 49
120 DATA 169,3,133,251,169,15,141,24,212,169,0,141
,5,212,169,247,141,6,212,169                   :rem 248
```

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```
130 DATA 17,141,4,212,169,40,141,1,212,169,0,141,0
    ,212,161,100,202,208,253,169 :rem 213
140 DATA 16,141,4,212,169,255,133,252,162,0,202,20
    8,253,198,252,208,249,198,251 :rem 56
150 DATA 208,199,169,0,141,24,212,96 :rem 241
160 FOR I=51000 TO 52651 :rem 160
170 READD:POKEI,D:CK=CK+D:NEXT:PRINT". . ":rem 252
180 IFCK=199912THEN1170 :rem 42
190 POKE 53281,2:POKE 53280,8:POKE 646,8:PRINT CHR
    $(14) :rem 228
191 PRINT "{CLR}{5 DOWN}{4 RIGHT}STOP!":PRINT"
    {4 RIGHT}ERROR IN DATA STATEMENTS." :rem 159
192 PRINT "{4 RIGHT}CHECK YOUR DATA BEFORE GOING ON
    ." :rem 26
193 PRINT "{4 RIGHT}BE SURE TO SAVE THIS PROGRAM B
    EFORE" :rem 253
194 PRINT "{4 RIGHT}ATTEMPTING TO RUN IT AGAIN."
    :rem 35
195 PRINT "{9 DOWN}{5 RIGHT}PRESS RETURN TO LIST P
    ROGRAM." :rem 172
196 GETR$:IFR$="" THEN 196 :rem 133
197 IFR$<>CHR$(13)THEN 196 :rem 165
198 PRINT "{CLR}";CHR$(142):POKE 53281,6:POKE 5328
    0,14:POKE 646,14 :rem 142
199 LIST :rem 223
200 DATA76,160,205,169,7,141,32,208,141,33,208,169
    ,6,141,134,2,32 :rem 164
210 DATA106,203,189,204,203,240,7,32,210,255,232,7
    6,75,199,32,113,203 :rem 105
220 DATA189,232,203,240,7,32,210,255,232,76,90,199
    ,32,120,203,189,251 :rem 116
230 DATA203,240,7,32,210,255,232,76,105,199,32,127
    ,203,189,7,204,240 :rem 59
240 DATA7,32,210,255,232,76,120,199,32,134,203,189
    ,20,204,240,7,32 :rem 211
250 DATA210,255,232,76,135,199,32,141,203,189,37,2
    04,240,7,32,210,255 :rem 115
260 DATA232,76,150,199,32,148,203,189,59,204,240,7
    ,32,210,255,232,76 :rem 81
270 DATA165,199,32,155,203,189,76,204,240,7,32,210
    ,255,232,76,180,199 :rem 141
280 DATA32,162,203,189,90,204,240,7,32,210,255,232
    ,76,195,199,32,169 :rem 84
290 DATA203,189,104,204,240,7,32,210,255,232,76,21
    0,199,165,203,201,64 :rem 160
300 DATA240,250,201,10,208,3,76,225,200,201,28,208
    ,3,76,4,201,201 :rem 132
310 DATA20,208,3,76,39,201,201,18,208,3,76,74,201,
    201,14,208,3 :rem 2
```


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320 DATA76,109,201,201,21,208,3,76,144,201,201,26,
208,3,76,179,201 :rem 206
330 DATA201,29,208,197,32,68,229,32,106,203,189,20
4,203,240,7,32,210 :rem 60
340 DATA255,232,76,31,200,32,183,203,189,125,204,2
40,7,32,210,255,232 :rem 101
350 DATA76,46,200,32,120,203,189,143,204,240,7,32,
210,255,232,76,61 :rem 4
360 DATA200,32,127,203,189,162,204,240,7,32,210,25
5,232,76,76,200,32 :rem 51
370 DATA134,203,189,180,204,240,7,32,210,255,232,7
6,91,200,32,141,203 :rem 99
380 DATA189,200,204,240,7,32,210,255,232,76,106,20
0,32,148,203,189,226 :rem 160
390 DATA204,240,7,32,210,255,232,76,121,200,32,176
,203,189,245,204,240 :rem 152
400 DATA7,32,210,255,232,76,136,200,32,169,203,189
,104,204,240,7,32 :rem 2
410 DATA210,255,232,76,151,200,165,203,201,64,240,
250,201,33,208,3,76 :rem 89
420 DATA214,201,201,34,208,3,76,249,201,201,37,208
,3,76,28,202,201 :rem 200
430 DATA42,208,3,76,63,202,201,36,208,3,76,98,202,
201,39,208,3 :rem 21
440 DATA76,133,202,201,38,208,3,76,160,205,201,1,2
08,197,76,160,205 :rem 10
450 DATA32,168,202,189,232,203,141,52,3,232,189,23
2,203,240,7,32,210 :rem 51
460 DATA255,232,76,235,200,169,8,141,53,3,169,205,
141,54,3,76,178 :rem 191
470 DATA202,32,168,202,189,251,203,141,52,3,232,18
9,251,203,240,7,32 :rem 56
480 DATA210,255,232,76,14,201,169,21,141,53,3,169,
205,141,54,3,76 :rem 171
490 DATA178,202,32,168,202,189,7,204,141,52,3,232,
189,7,204,240,7 :rem 181
500 DATA32,210,255,232,76,49,201,169,27,141,53,3,1
69,205,141,54,3 :rem 170
510 DATA76,178,202,32,168,202,189,20,204,141,52,3,
232,189,20,204,240 :rem 58
520 DATA7,32,210,255,232,76,84,201,169,34,141,53,3
,169,205,141,54 :rem 173
530 DATA3,76,178,202,32,168,202,189,37,204,141,52,
3,232,189,37,204 :rem 233
540 DATA240,7,32,210,255,232,76,119,201,169,45,141
,53,3,169,205,141 :rem 13
550 DATA54,3,76,178,202,32,168,202,189,59,204,141,
52,3,232,189,59 :rem 198
560 DATA204,240,7,32,210,255,232,76,154,201,169,61
,141,53,3,169,205 :rem 12

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570 DATA141,54,3,76,178,202,32,168,202,189,76,204,
141,52,3,232,189 :rem 239
580 DATA76,204,240,7,32,210,255,232,76,189,201,169
,72,141,53,3,169 :rem 238
590 DATA205,141,54,3,76,178,202,32,168,202,189,125
,204,141,52,3,232 :rem 17
600 DATA189,125,204,240,7,32,210,255,232,76,224,20
1,169,80,141,53,3 :rem 9
610 DATA169,205,141,54,3,76,178,202,32,168,202,189
,143,204,141,52,3 :rem 19
620 DATA232,189,143,204,240,7,32,210,255,232,76,3,
202,169,92,141,53 :rem 14
630 DATA3,169,205,141,54,3,76,178,202,32,168,202,1
89,162,204,141,52 :rem 22
640 DATA3,232,189,162,204,240,7,32,210,255,232,76,
38,202,169,105,141 :rem 63
650 DATA53,3,169,205,141,54,3,76,178,202,32,168,20
2,189,180,204,141 :rem 25
660 DATA52,3,232,189,180,204,240,7,32,210,255,232,
76,73,202,169,117 :rem 20
670 DATA141,53,3,169,205,141,54,3,76,178,202,32,16
8,202,189,200,204 :rem 20
680 DATA141,52,3,232,189,200,204,240,7,32,210,255,
232,76,108,202,169 :rem 59
690 DATA131,141,53,3,169,205,141,54,3,76,178,202,3
2,168,202,189,226 :rem 29
700 DATA204,141,52,3,232,189,226,204,240,7,32,210,
255,232,76,143,202 :rem 49
710 DATA169,147,141,53,3,169,205,141,54,3,76,178,2
02,32,68,229,162 :rem 242
720 DATA3,160,9,76,197,203,32,124,232,169,1,162,8,
160,0,32,186 :rem 25
730 DATA255,173,52,3,174,53,3,172,54,3,32,189,255,
169,0,162,1 :rem 239
740 DATA160,8,32,213,255,134,45,132,46,169,15,162,
8,168,32,186,255 :rem 242
750 DATA169,0,32,189,255,32,192,255,162,15,32,198,
255,32,207,255,201 :rem 85
760 DATA50,144,75,169,13,32,210,255,56,32,207,255,
201,64,144,248,32 :rem 23
770 DATA210,255,32,207,255,201,44,240,6,32,210,255
,76,3,203,32,207 :rem 207
780 DATA255,201,13,208,249,32,210,255,169,15,32,19
5,255,32,204,255,169 :rem 182
790 DATA18,141,55,3,169,255,141,56,3,162,0,202,208
,253,206,56,3 :rem 77
800 DATA208,248,206,55,3,208,236,32,56,199,32,207,
255,201,13,208,249 :rem 81
810 DATA169,15,32,195,255,32,204,255,169,7,141,134
,2,160,0,185,4 :rem 128

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820 DATA05,240,7,153,119,2,200,76,84,203,169,13,1
41,122,2,169,4 :rem 115
830 DATA133,198,96,162,2,160,7,76,197,203,162,4,16
0,9,76,190,203 :rem 146
840 DATA162,6,160,9,76,190,203,162,8,160,9,76,190,
203,162,10,160 :rem 127
850 DATA9,76,190,203,162,12,160,9,76,190,203,162,1
4,160,9,76,190 :rem 137
860 DATA203,162,16,160,9,76,190,203,162,18,160,9,7
6,197,203,162,21 :rem 234
870 DATA160,10,76,197,203,162,16,160,9,76,197,203,
162,4,160,9,76 :rem 145
880 DATA197,203,24,32,240,255,162,1,96,24,32,240,2
55,162,0,96,80 :rem 131
890 DATA69,82,83,79,78,65,76,32,65,67,67,79,85,78,
84,73,78 :rem 177
900 DATA71,32,77,65,78,65,71,69,82,0,13,65,46,32,3
2,80,69 :rem 62
910 DATA82,83,79,78,65,76,32,68,65,84,65,0,6,66,46
,32,32 :rem 27
920 DATA73,78,67,79,77,69,0,7,67,46,32,32,69,88,80
,69,78 :rem 53
930 DATA83,69,0,11,68,46,32,32,65,68,74,85,83,84,7
7,69,78 :rem 88
940 DATA84,83,0,16,69,46,32,32,65,67,67,79,85,78,8
4,32,66 :rem 86
950 DATA65,76,65,78,67,69,83,0,11,70,46,32,32,73,7
8,86,69 :rem 84
960 DATA83,84,77,69,78,84,83,0,8,71,46,32,32,80,82
,79,80 :rem 33
970 DATA69,82,84,89,0,72,46,32,32,78,69,88,84,32,8
0,65,71 :rem 87
980 DATA69,0,80,82,69,83,83,32,68,69,83,73,82,69,6
8,32,76 :rem 97
990 DATA69,84,84,69,82,0,12,73,46,32,32,85,78,80,6
5,73,68 :rem 84
1000 DATA32,66,73,76,76,83,0,13,74,46,32,32,66,65,
76,65,78 :rem 108
1010 DATA67,69,32,83,72,69,69,84,0,12,75,46,32,32,
83,84,77 :rem 115
1020 DATA78,84,32,79,70,32,73,38,69,0,14,76,46,32,
32,80,76 :rem 104
1030 DATA65,78,78,69,68,32,73,78,67,79,77,69,0,16,
77,46,32 :rem 144
1040 DATA32,80,76,65,78,78,69,68,32,69,88,80,69,78
,68,73,84 :rem 205
1050 DATA85,82,69,83,0,13,78,46,32,32,66,65,67,75,
45,85,80 :rem 118
1060 DATA32,70,73,76,69,83,0,79,46,32,32,70,73,82,
83,84,32 :rem 105

```

1070 DATA80,65,71,69,0,82,85,78,0,80,69,82,83,79,7
      8,65,76 :rem 85
1080 DATA32,68,65,84,65,73,78,67,79,77,69,69,88,80
      ,69,78,83 :rem 219
1090 DATA69,65,68,74,85,83,84,77,69,78,84,83,65,67
      ,67,79,85 :rem 224
1100 DATA78,84,32,66,65,76,65,78,67,69,83,73,78,86
      ,69,83,84 :rem 206
1110 DATA77,69,78,84,83,80,82,79,80,69,82,84,89,85
      ,78,80,65 :rem 207
1120 DATA73,68,32,66,73,76,76,83,66,65,76,65,78,67
      ,69,32,83 :rem 192
1130 DATA72,69,69,84,83,84,77,78,84,32,79,70,32,73
      ,38,69,80 :rem 191
1140 DATA76,65,78,78,69,68,32,73,78,67,79,77,69,80
      ,76,65,78 :rem 218
1150 DATA78,69,68,32,69,88,80,69,78,68,73,84,66,65
      ,67,75,45 :rem 212
1160 DATA85,80,32,70,73,76,69,83 :rem 104
1161 DATA32,68,229,165,203,201,64,208,250,76,59,19
      9 :rem 20
1170 POKE631,83:POKE632,89:POKE633,83 :rem 102
1180 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13 :rem 72
1190 POKE198,9 :rem 1
1200 NEW :rem 173

```

PERSONAL DATA

Remember to use the name above for the program you place on the PAM master disk.

```

20 BO=53280:BA=53281:F1=0:E1=0:E2=0:E3=0:E4=0:D1=0
      :I1=0 :rem 4
30 AA=0:BB=0:Z=0:NN=0:X=0:LL=0:KK=14:MA=1:N=1:SM=0
      :E=0 :rem 208
40 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
      =0 :rem 143
50 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
      0):LB$="":RA$=" :rem 28
60 F$="":N$="":N1$="":N2$="":N3$="":N4$=" :rem 218
70 A$="":B$="":Y$="":SM$="":E$=" :rem 39
80 DIMFW$(40),X$(60),NE$(60),DE$(25),OE$(15),CE$(4
      0),L$(30),DI$(10),DK$(10) :rem 218
90 DIMFW(40),X(60),NE(60),DE(25),OE(15),CE(40),DI(
      10) :rem 254
100 L$(1)="DAY (2 DIGITS)":L$(2)="TYPE":L$(3)="FRO
      M WHOM :rem 21
110 L$(4)="DISPOSITION":L$(5)="AMOUNT":L$(6)="ACCO
      UNT NO. :rem 74

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```
120 L$(14)="TOTAL EXPENSE":L$(15)="TOTAL INCOME":L
    $(16)="BALANCE                :rem 158
130 L$(17)="TOTAL":L$(18)="TO WHOM":L$(19)="CHE":L
    $(20)="                          :rem 247
140 L$(21)="" :L$(22)="" :L$(23)="" :L$(24)="DATE:
    :rem 19
150 L$(25)="NOT DEDUCTIBLE:" :L$(26)="DEDUCTIBLE:" :
    L$(27)="OTHER:                :rem 177
160 L$(28)="CREDITORS:" :L$(30)=". " :POKEBO,12:POKEB
    A,12:POKE646,1:PRINT"{CLR}{2 DOWN}      :rem 65
170 PRINTTAB(13)"PERSONAL DATA":FORD=1TO5000:NEXT:
    POKEBO,14:POKEBA,6:POKE646,14        :rem 154
180 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
    AM DISK":PRINT                        :rem 207
190 PRINTTAB(18)"AND":PRINT              :rem 150
200 PRINTTAB(12)"INSERT DATA DISK":PRINT:PRINT"
    {4 DOWN}"                              :rem 30
210 PRINTTAB(9)"PRESS 'C' TO CONTINUE"   :rem 235
220 GETA$:IFAS<>"C"THEN220              :rem 203
230 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
    {2 DOWN}":PRINTTAB(13)"PERSONAL DATA":PRINT
    :rem 97
240 F$="PERSDATA":PRINT"LOADING "F$;:OPENS,8,8,"0:
    "+F$+",S,R                            :rem 168
250 INPUT#8,YR$,N$,N1$,N2$,N3$,N4$:PRINT" .";
    :rem 209
260 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT" .";
    :rem 134
270 CLOSE8:PRINT:F$="INCDATA":PRINT"LOADING "F$;:O
    PENS,8,8,"0:"+F$+",S,R                :rem 250
280 INPUT#8,F1,D1,I1:PRINT" .";          :rem 227
290 FORJ=1TO39:INPUT#8,FW$(J),FW(J):NEXT:PRINT" . "
    ;:FORJ=1TO9                            :rem 252
300 INPUT#8,IT$(J),IT(J):NEXT:PRINT" ."; :rem 87
310 FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXT:PRINT" .";
    :CLOSE8                                :rem 213
320 PRINT:F$="EXPDATA":PRINT"LOADING "F$;:OPENS,8,
    8,"0:"+F$+",S,R                        :rem 33
330 INPUT#8,E1,E2,E3,E4:PRINT" .";       :rem 131
340 FORJ=1TO59:INPUT#8,NE$(J),NE(J):NEXT:PRINT" . "
    ;                                       :rem 49
350 FORJ=1TO25:INPUT#8,DE$(J),DE(J):NEXT:PRINT" . "
    ;                                       :rem 23
360 FORJ=1TO15:INPUT#8,OE$(J),OE(J):NEXT :rem 185
370 PRINT" .";:FORJ=1TO39:INPUT#8,CE$(J),CE(J):NEX
    T:PRINT" .";:CLOSE8                  :rem 120
380 OPEN15,8,15:INPUT#15,E,E$           :rem 130
390 CLOSE15                              :rem 120
400 POKEBO,15:POKEBA,15:POKE646,1:PRINT"{CLR}
    {DOWN}":PRINTTAB(13)"PERSONAL DATA   :rem 108
```

CHAPTER
FOURTEEN

```
410 PRINTTAB(5)"{DOWN}1.{2 SPACES}PERSONAL DATA":P
RINTTAB(5)"{DOWN}2.{2 SPACES}TYPES OF INCOME
:rem 77
420 PRINTTAB(5)"{DOWN}3.{2 SPACES}DISPOSITION OF I
NCOME :rem 185
430 PRINTTAB(5)"{DOWN}4.{2 SPACES}FROM WHOM RECEIV
ED":PRINTTAB(5)"{DOWN}5.{2 SPACES}SOURCES OF F
UNDS :rem 225
440 PRINTTAB(5)"{DOWN}6.{2 SPACES}TYPE OF EXPENSE"
:PRINTTAB(5)"{DOWN}7.{2 SPACES}EXPENSE ACCOUNT
S :rem 94
450 PRINTTAB(5)"{DOWN}8.{2 SPACES}MAIN MENU":PRINT
TAB(9)"{2 DOWN}PRESS DESIRED NUMBER :rem 90
460 GETA$:IFA$=""THEN460 :rem 87
470 IFA$<"1"ORA$>"8"THEN460 :rem 201
480 AA=VAL(A$):ONAAGOTO600,1280,1520,1770,3150,297
0,2180,5190 :rem 231
490 PRINTTAB(9)"{2 DOWN}1.{2 SPACES}ENTER/CHANGE D
ATA":PRINTTAB(9)"{DOWN}2.{2 SPACES}VIEW DATA
:rem 205
500 PRINTTAB(9)"{DOWN}3.{2 SPACES}RETURN TO MENU":
PRINTTAB(9)"{3 DOWN}PRESS DESIRED NUMBER
:rem 196
510 GETB$:IFB$=""THEN510 :rem 81
520 IFB$<"1"ORB$>"3"THEN510 :rem 190
530 BB=VAL(B$):RETURN :rem 13
540 POKEBO,14:POKEBA,14:POKE646,1:PRINT"{CLR}
{3 DOWN}":PRINTTAB(11)"ENTER/CHANGE DATA
:rem 126
550 PRINTTAB(11)"{2 DOWN}1.{2 SPACES}ADD":PRINTTAB
(11)"{DOWN}2.{2 SPACES}CORRECT":PRINTTAB(11)"
{DOWN}3.{2 SPACES}CHANGE :rem 226
560 PRINTTAB(11)"{DOWN}4.{2 SPACES}RETURN TO MENU"
:PRINTTAB(9)"{2 DOWN}PRESS DESIRED NUMBER
:rem 227
570 GETA$:IFA$=""THEN570 :rem 91
580 IFA$<"1"ORA$>"4"THEN570 :rem 201
590 AA=VAL(A$):ONAAGOSUB920,1050,1170,400:RETURN
:rem 43
600 POKEBO,13:POKEBA,13:POKE646,0:PRINT"{CLR}
{2 DOWN}":PRINTTAB(13)"PERSONAL DATA :rem 122
610 PRINTTAB(8)"{2 DOWN}1.{2 SPACES}ENTER/CHANGE D
ATA":PRINTTAB(8)"{DOWN}2.{2 SPACES}VIEW PERSON
AL DATA :rem 41
620 PRINTTAB(8)"{DOWN}3.{2 SPACES}VIEW LIST OF REP
ORTS":PRINTTAB(8)"{DOWN}4.{2 SPACES}RETURN TO
{SPACE}MENU :rem 234
630 PRINTTAB(9)"{3 DOWN}PRESS DESIRED NUMBER
:rem 50
640 GETB$:IFB$=""THEN640 :rem 89
```

CHAPTER
FOURTEEN

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650 IFB$ < "1" ORB$ > "4" THEN 640 :rem 199
660 BB=VAL(B$):ONBBGOTO690,760,3610,400 :rem 169
670 PRINT"CLEARING MEMORY . ."; :rem 35
680 FORJ=1TO60:X$(J)="":X(J)=0:PRINT " . .";:NEXT:RET
URN :rem 185
690 PRINT"{CLR}{3 DOWN}":PRINTTAB(11)"PERSONAL DAT
A":PRINT :rem 16
700 INPUT"NAME";N$:INPUT"STREET";N1$ :rem 252
710 INPUT"CITY";N2$:INPUT"STATE";N3$:INPUT"ZIP";N4
$:PRINT"{CLR}{3 DOWN} :rem 132
720 PRINTTAB(6)"PERSONAL ACCOUNTING MANAGER":PRINT
TAB(18)"FOR":PRINT :rem 92
730 PRINTTAB(20-LEN(N$)/2)N$:PRINT:PRINTTAB(11)"FO
R THE YEAR{4 SPACES}{RVS}{3 SPACES}{OFF}
{4 LEFT} :rem 158
740 PRINTTAB(24)"{UP}";:INPUTYR$:GOSUB3340:IFE>19T
HEN400 :rem 92
750 GOTO600 :rem 107
760 PRINT"{CLR}{3 DOWN}":PRINTTAB(6)"PERSONAL ACCO
UNTING MANAGER" :rem 231
770 PRINTTAB(11)"FOR THE YEAR "YR$:PRINT:PRINTN$:P
RINTN1$:PRINTN2$", "N3$ :rem 171
780 PRINTN4$ :rem 210
790 PRINT"{2 DOWN}HARD COPY? (Y/N) :rem 49
800 GETA$:IFA$=""THEN800 :rem 83
810 IFA$="N"THEN400 :rem 31
820 IFA$ < > "Y" THEN800 :rem 108
830 OPEN4,4:FORSP=1TO18:PRINT#4,LF$;:NEXT :rem 83
840 M=27:GOSUB910:PRINT#4,LF$;"PERSONAL ACCOUNTING
MANAGER" :rem 168
850 FORSP=1TO18:PRINT#4,LF$;:NEXT:A$=N2$+" "+N3$:M
=LEN(N$):GOSUB910 :rem 206
860 PRINT#4,LF$,N$ :rem 13
870 M=LEN(N1$):GOSUB910:PRINT#4,LF$,N1$:M=LEN(A$):
GOSUB910:PRINT#4,LF$,A$ :rem 115
880 M=LEN(N4$):GOSUB910:PRINT#4,LF$,N4$:FORSP=1TO8
:PRINT#4,LF$;:NEXT :rem 242
890 M=4:GOSUB910:PRINT#4,LF$,YR$:FORSP=1TO12:PRINT
#4,LF$;NEXT:PRINT#4:CLOSE4 :rem 108
900 GOTO400 :rem 102
910 PC=INT(NC-M)/2:LB$=LEFT$(S$,PC):RETURN :rem 43
920 POKEBO,5:POKEBA,5:POKE646,1 :rem 111
930 PRINT"{CLR}":PRINTN$:PRINTY$:PRINTTAB(16)"
{DOWN}ADD DATA":PRINT:FORJJ=MATON :rem 67
940 IFJJ=NTHENPRINT"LIST IS FULL":SYS828:FORD=1TO5
000:NEXT:NEXT :rem 94
950 PRINT"{DOWN}ITEM NO.":JJ+NN:PRINT :rem 215
960 INPUTX$(JJ):IFX$(JJ)=""THEN960 :rem 9
970 IFLen(X$(JJ))>27THENX$(JJ)=LEFT$(X$(JJ),27)
:rem 202
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CHAPTER
FOURTEEN

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980 X(JJ)=JJ:IFX(JJ)=0THENPRINT"ERROR":SYS828:FORD
    =1TO5000:NEXT:JJ=N:GOTO1040          :rem 204
990 MA=MA+1:PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"
    {DOWN}ANOTHER ITEM? (Y/N)          :rem 132
1000 GETA$:IFA$=""THEN1000              :rem 165
1010 IFA$="N"THENJJ=N:GOTO1040          :rem 11
1020 IFA$<>"Y"THEN1000                  :rem 190
1030 PRINT"{CLR}                        :rem 6
1040 NEXT:RETURN                          :rem 30
1050 POKEBO,5:POKEBA,5:POKE646,1       :rem 154
1060 PRINT"{CLR}":PRINTN$:PRINTY$:PRINTTAB(14)"
    {DOWN}CORRECTIONS "                :rem 156
1070 PRINT:PRINT"IF ITEM NO. IS NOT KNOWN PRESS '0
    '":PRINT                              :rem 213
1080 INPUT"ITEM/ACCT NO. TO CORRECT";X:IFX=0THENRE
    TURN                                  :rem 198
1090 FORJJ=1TOMA:IFX=X(JJ)THENX=JJ:JJ=MA:NEXT:GOTO
    1110                                  :rem 31
1100 NEXT:IFJJ=MA+1THEN1160             :rem 124
1110 PRINT:JJ=X:PRINT"CORRECT ITEM/ACCT ";X(JJ):PR
    INT:PRINTX$(JJ):PRINT                :rem 119
1120 PRINT"RETYPE CORRECTLY:":PRINT     :rem 38
1130 INPUTX$(JJ):IFX$(JJ)=""THEN1130    :rem 85
1140 IFLEN(X$(JJ))>27THENX$(JJ)=LEFT$(X$(JJ),27)
                                          :rem 240
1150 RETURN                              :rem 167
1160 PRINT"NO SUCH ITEM":SYS828:FORD=1TO5000:NEXT:
    RETURN                                :rem 65
1170 POKEBO,4:POKEBA,4:POKE646,1:PRINT"{CLR}":PRIN
    TN$:PRINTY$:PRINTTAB(16)"{DOWN}CHANGES:rem 56
1180 PRINT:PRINT"IF ITEM NO. IS NOT KNOWN PRESS '0
    '":PRINT                              :rem 215
1190 INPUT"ITEM/ACCT NO. TO CHANGE";X:IFX=0THENRET
    URN                                  :rem 92
1200 FORJJ=1TOMA:IFX=X(JJ)THENX=JJ:JJ=MA:NEXT:GOTO
    1220                                  :rem 26
1210 NEXT:IFJJ=MA+1THEN1270             :rem 128
1220 PRINT:JJ=X:PRINT"CHANGE ITEM/ACCT ";X(JJ):PRI
    NT:PRINTX$(JJ):PRINT                  :rem 13
1230 PRINT"TYPE CORRECTLY:              :rem 168
1240 INPUTX$(JJ):IFX$(JJ)=""THEN1240    :rem 89
1250 IFLEN(X$(JJ))>27THENX$(JJ)=LEFT$(X$(JJ),27)
                                          :rem 242
1260 RETURN                              :rem 169
1270 PRINT"NO SUCH ITEM":SYS828:FORD=1TO5000:NEXT:
    RETURN                                :rem 67
1280 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
    {2 DOWN}":PRINTTAB(12)"TYPES OF INCOME:rem 20
1290 GOSUB490:ONBGGOTO1300,1380,400    :rem 249
1300 GOSUB670:IF1=0THEN1=1              :rem 168

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1310 MA=I1:NN=0:N=10:Y$="TYPES OF INCOME":FORJJ=1
      TOI1                                     :rem 10
1320 X$(JJ)=IT$(JJ):X(JJ)=IT(JJ):PRINT " .";NEXT:G
      OSUB540                                   :rem 128
1330 IFA$="2"ORA$="3"THENIT$(JJ)=X$(JJ):GOTO1350
      :rem 215
1340 FORJJ=I1TOMA:IT$(JJ)=X$(JJ):IT(JJ)=X(JJ)+NN:N
      EXT:I1=MA                                 :rem 158
1350 FORJJ=1TOI1:X$(JJ)=IT$(JJ):X(JJ)=IT(JJ):NEXT:
      GOSUB3510:FORJJ=1TOI1                   :rem 191
1360 IT$(JJ)=X$(JJ):IT(JJ)=X(JJ):NEXT:GOSUB3380:IF
      E>19THEN400                              :rem 190
1370 GOTO1280                                  :rem 207
1380 PRINT "{CLR}{3 DOWN}":POKEBO,5:POKEBA,5:POKE64
      6,1                                       :rem 113
1390 PRINTTAB(8)"STANDARD TYPES OF INCOME":PRINT
      :rem 251
1400 PRINTTAB(10)"TYPE"TAB(16)"INCOME":PRINT:FORIT
      =1TOI10:IFIT$(IT)=" "THEN1420          :rem 213
1410 PRINTTAB(12)IT(IT)TAB(16)IT$(IT)       :rem 167
1420 NEXT:PRINT "{3 DOWN}HARD COPY? (Y/N)    :rem 226
1430 GETA$:IFA$=""THEN1430                   :rem 179
1440 IFA$="N"THEN400                          :rem 79
1450 IFA$<>"Y"THEN1430                       :rem 204
1460 OPEN4,4:LB$=LEFT$(S$,30):PRINT#4,LB$;"STANDAR
      D TYPES OF INCOME";LF$                 :rem 2
1470 LB$=LEFT$(S$,27):PRINT#4,LB$;"TYPE";    :rem 95
1480 LB$=LEFT$(S$,10):PRINT#4,LB$;"INCOME";LF$
      :rem 135
1490 FORIT=1TOI10:IFIT$(IT)=" "THEN1510     :rem 179
1500 LB$=LEFT$(S$,27):PRINT#4,LB$;IT(IT);:LB$=LEFT
      $(S$,8):PRINT#4,LB$;IT$(IT)          :rem 232
1510 NEXT:FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLO
      SE4:GOTO400                             :rem 192
1520 POKEBO,12:POKEBA,12:POKE646,1:PRINT "{CLR}
      {2 DOWN}":PRINTTAB(9)"DISPOSITION OF INCOME
      :rem 167
1530 GOSUB490:ONBGGOTO1540,1620,400        :rem 249
1540 GOSUB670:IFD1=0THEND1=1                :rem 164
1550 MA=D1:NN=0:N=10:Y$="DISPOSITION OF INCOME":F
      ORJJ=1TOD1                               :rem 198
1560 X$(JJ)=DI$(JJ):X(JJ)=DI(JJ):PRINT " .";NEXT:G
      OSUB540                                   :rem 102
1570 IFA$="2"ORA$="3"THENDI$(JJ)=X$(JJ):GOTO1590
      :rem 211
1580 FORJJ=D1TOMA:DI$(JJ)=X$(JJ):DI(JJ)=X(JJ)+NN:N
      EXT:D1=MA                                 :rem 122
1590 FORJJ=1TOD1:X$(JJ)=DI$(JJ):X(JJ)=DI(JJ):NEXT:
      GOSUB3510:FORJJ=1TOD1                 :rem 155

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1600 DI$(JJ)=X$(JJ):DI(JJ)=X(JJ):NEXT:GOSUB3380:IF
    E>19THEN400                                :rem 155
1610 GOTO1520                                  :rem 201
1620 PRINT"{CLR}{3 DOWN}":POKEBO,5:POKEBA,5:POKE64
    6,1                                         :rem 110
1630 PRINTTAB(8)"DISPOSITION OF INCOME":PRINT
                                                :rem 103
1640 PRINT" # "TAB(4)"DIS "TAB(16)"INCOME":PRINT:FOR
    DI=1TO9:IFDI$(DI)=" "THEN1660             :rem 97
1650 DK$(DI)=LEFT$(DI$(DI),3):PRINTDI(DI)TAB(4)DK$
    (DI)TAB(13)DI$(DI)                       :rem 98
1660 NEXT:PRINT"{3 DOWN}HARD COPY? (Y/N)      :rem 232
1670 GETA$:IFA$=" "THEN1670                  :rem 191
1680 IFA$="N"THEN400                          :rem 85
1690 IFA$<>"Y"THEN1670                       :rem 216
1700 OPEN4,4:LB$=LEFT$(S$,30):PRINT#4,LB$;"DISPOSI
    TION OF INCOME";LF$                      :rem 110
1710 LB$=LEFT$(S$,27):PRINT#4,LB$;"DIS";     :rem 250
1720 LB$=LEFT$(S$,11):PRINT#4,LB$;"INCOME";LF$
                                                :rem 133
1730 FORDI=1TO9:IFDI$(DI)=" "THEN1760       :rem 95
1740 DK$(DI)=LEFT$(DI$(DI),3):LB$=LEFT$(S$,27):PRI
    NT#4,LB$;DK$(DI);                        :rem 0
1750 LB$=LEFT$(S$,8):PRINT#4,LB$;DI$(DI)    :rem 253
1760 NEXT:FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLO
    SE4:GOTO400                                :rem 199
1770 POKEBO,9:POKEBA,9:POKE646,1:PRINT"{CLR}
    {2 DOWN}":PRINTTAB(11)"FROM WHOM RECEIVED
                                                :rem 148
1780 GOSUB490:ONBBGOTO1790,1910,400         :rem 9
1790 GOSUB670:IFF1=0THENF1=1                 :rem 175
1800 MA=F1:NN=0:N=40:Y$="FROM WHOM RECEIVED:":FORJ
    J=1TOF1                                    :rem 220
1810 X$(JJ)=FW$(JJ):X(JJ)=FW(JJ):PRINT" .";:NEXT:G
    OSUB540                                    :rem 132
1820 IFA$="2"ORA$="3"THENFW$(JJ)=X$(JJ):GOTO1860
                                                :rem 225
1830 FORJJ=F1TOMA:IFX(JJ)=0THEN1850         :rem 156
1840 FW$(JJ)=X$(JJ):FW(JJ)=X(JJ)+NN        :rem 14
1850 NEXT:F1=MA                              :rem 137
1860 FORJJ=1TOF1:X$(JJ)=FW$(JJ):X(JJ)=FW(JJ):NEXT:
    GOSUB3510:FORJJ=1TOF1                    :rem 191
1870 IFX(JJ)=0THEN1890                      :rem 10
1880 FW$(JJ)=X$(JJ):FW(JJ)=X(JJ)          :rem 75
1890 NEXT:GOSUB3380:IFE>19THEN400          :rem 18
1900 GOTO1770                                :rem 210
1910 POKEBO,5:POKEBA,5:POKE646,1:GOSUB2020:FORFW=1
    TO39:IFFW$(FW)=" "THEN1930               :rem 77

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1920 PRINTTAB(5)FW(FW){LEFT}"L$(30)TAB(12)FW$(FW)
      :LL=LL+1:IFLL=>KKTHEN1940           :rem 242
1930 NEXT:IFFW=40THEN1970                 :rem 19
1940 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                           :rem 203
1950 GETA$:IFA$<>"C"THEN1950             :rem 65
1960 GOSUB2020:GOTO1930                   :rem 84
1970 PRINT:PRINT"{2 DOWN}HARD COPY? (Y/N) :rem 41
1980 GETA$:IFA$="N"THEN1980              :rem 199
1990 IFA$="N"THEN400                      :rem 89
2000 IFA$<>"Y"THEN1980                   :rem 206
2010 GOTO2040                             :rem 194
2020 PRINT"{CLR}{3 DOWN}":PRINT"STANDARD LIST OF F
      ROM WHOM INCOME IS                   :rem 44
2030 PRINT"RECEIVED.{2 SPACES}SPELL EXACTLY.":PRIN
      T:LL=0:RETURN                       :rem 255
2040 OPEN4,4:PRINT#4,LA$;"STANDARD LIST OF FROM WH
      OM INCOME IS RECEIVED.              :rem 65
2050 PRINT#4,LA$;"SPELL EXACTLY.":LF$:FORFW=1TO39:
      A$=STR$(FW(FW))+L$(30)              :rem 43
2060 IFFW$(FW)="N"THEN2090                :rem 129
2070 RA$=LEFT$(S$,20-LEN(A$)):PRINT#4,RA$,A$;
                                           :rem 0
2080 LB$=LEFT$(S$,7):PRINT#4,LB$;FW$(FW) :rem 25
2090 NEXT:FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLO
      SE4:GOTO400                          :rem 196
2100 GOSUB670:IFE4=0THENE4=1              :rem 165
2110 MA=E4:NN=100:N=39:Y$=L$(28):FORJJ=1TOE4
                                           :rem 59
2120 X$(JJ)=CE$(JJ):X(JJ)=CE(JJ):PRINT" .":NEXT:G
      OSUB540                               :rem 85
2130 IFA$="2"ORA$="3"THENCE$(JJ)=X$(JJ):GOTO2150
                                           :rem 192
2140 FORJJ=E4TOMA:CE$(JJ)=X$(JJ):CE(JJ)=X(JJ)+NN:N
      EXT:E4=MA                             :rem 113
2150 FORJJ=1TOE4:X$(JJ)=CE$(JJ):X(JJ)=CE(JJ):NEXT:
      GOSUB3510:FORJJ=1TOE4               :rem 146
2160 CE$(JJ)=X$(JJ):CE(JJ)=X(JJ):NEXT:GOSUB3440:IF
      E>19THEN400                          :rem 144
2170 GOTO2180                             :rem 206
2180 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
      {2 DOWN}":PRINTTAB(12)"EXPENSE ACCOUNTS
                                           :rem 167
2190 GOSUB490:ONBBGOTO2200,2510,400     :rem 245
2200 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
      {2 DOWN}":PRINTTAB(12)"ENTER/CHANGE DATA
                                           :rem 149
2210 PRINTTAB(9)"{2 DOWN}1.{2 SPACES}NOT DEDUCTIBL
      E":PRINTTAB(9)"?"{DOWN}2.{2 SPACES}DEDUCTIBLE
                                           :rem 206

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CHAPTER
FOURTEEN

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2220 PRINTTAB(9)"{DOWN}3.{2 SPACES}OTHER":PRINTTAB
(9)"{DOWN}4.{2 SPACES}CREDITORS           :rem 88
2230 PRINTTAB(9)"{DOWN}5.{2 SPACES}RETURN TO MENU"
:PRINTTAB(9)"{3 DOWN}PRESS DESIRED NUMBER
                                           :rem 248
2240 GETB$:IFB$=""THEN2240                 :rem 181
2250 IFB$<"1"ORB$>"5"THEN2240           :rem 36
2260 BB=VAL(B$):ONBBGOTO2270,2350,2430,2100,400
                                           :rem 30
2270 GOSUB670:IFE1=0THENE1=1             :rem 167
2280 MA=E1:NN=0:N=59:Y$=L$(25):FORJJ=1TOE1:rem 219
2290 X$(JJ)=NE$(JJ):X(JJ)=NE(JJ):PRINT ". ";:NEXT:G
OSUB540                                     :rem 115
2300 IFA$="2"ORA$="3"THENNE$(JJ)=X$(JJ):GOTO2320
                                           :rem 201
2310 FORJJ=E1TOMA:NE$(JJ)=X$(JJ):NE(JJ)=X(JJ)+NN:N
EXT:E1=MA                                   :rem 128
2320 FORJJ=1TOE1:X$(JJ)=NE$(JJ):X(JJ)=NE(JJ):NEXT:
GOSUB3510:FORJJ=1TOE1                     :rem 161
2330 NE$(JJ)=X$(JJ):NE(JJ)=X(JJ):NEXT:GOSUB3440:IF
E>19THEN400                                 :rem 165
2340 GOTO2180                               :rem 205
2350 GOSUB670:IFE2=0THENE2=1             :rem 168
2360 MA=E2:NN=59:N=25:Y$=L$(26):FORJJ=1TOE2:rem 20
2370 X$(JJ)=DE$(JJ):X(JJ)=DE(JJ):PRINT ". ";:NEXT:G
OSUB540                                     :rem 94
2380 IFA$="2"ORA$="3"THENDE$(JJ)=X$(JJ):GOTO2400
                                           :rem 198
2390 FORJJ=E2TOMA:DE$(JJ)=X$(JJ):DE(JJ)=X(JJ)+NN:N
EXT:E2=MA                                   :rem 118
2400 FORJJ=1TOE2:X$(JJ)=DE$(JJ):X(JJ)=DE(JJ):NEXT:
GOSUB3510:FORJJ=1TOE2                     :rem 142
2410 DE$(JJ)=X$(JJ):DE(JJ)=X(JJ):NEXT:GOSUB3440:IF
E>19THEN400                                 :rem 144
2420 GOTO2180                               :rem 204
2430 GOSUB670:IFE3=0THENE3=1             :rem 169
2440 MA=E3:NN=84:N=15:Y$=L$(27):FORJJ=1TOE3:rem 19
2450 X$(JJ)=OE$(JJ):X(JJ)=OE(JJ):PRINT ". ";:NEXT:G
OSUB540                                     :rem 115
2460 IFA$="2"ORA$="3"THENOE$(JJ)=X$(JJ):GOTO2480
                                           :rem 216
2470 FORJJ=E3TOMA:OE$(JJ)=X$(JJ):OE(JJ)=X(JJ)+NN:N
EXT:E3=MA                                   :rem 141
2480 FORJJ=1TOE3:X$(JJ)=OE$(JJ):X(JJ)=OE(JJ):NEXT:
GOSUB3510:FORJJ=1TOE3                     :rem 174
2490 OE$(JJ)=X$(JJ):OE(JJ)=X(JJ):NEXT:GOSUB3440:IF
E>19THEN400                                 :rem 174
2500 GOTO2180                               :rem 203
2510 GOSUB2670:PRINTTAB(10)"1."TAB(13)L$(25):LL=LL
+1:FOREX=1TO59                             :rem 254

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2520 IFNE$(EX)=" "THEN2540 :rem 120
2530 PRINTTAB(8)NE(EX)TAB(13)NE$(EX):LL=LL+1:IFLL=
>KKTHENGOSUB2650 :rem 90
2540 NEXT:PRINT:LL=LL+1:IFLL=>KKTHENGOSUB2650
:rem 194
2550 PRINTTAB(10)"2."TAB(13)L$(26):LL=LL+1:FOREX=1
TO25:IFDE$(EX)=" "THEN2570 :rem 86
2560 PRINTTAB(8)DE(EX)TAB(13)DE$(EX):LL=LL+1:IFLL=
>14THENGOSUB2650 :rem 24
2570 NEXT:PRINT:LL=LL+1:IFLL=>KKTHENGOSUB2650
:rem 197
2580 PRINTTAB(10)"3."TAB(13)L$(27):LL=LL+1:FOREX=1
TO15:IFOE$(EX)=" "THEN2600 :rem 95
2590 PRINTTAB(8)OE(EX)TAB(13)OE$(EX):LL=LL+1:IFLL=
>KKTHENGOSUB2650 :rem 98
2600 NEXT:PRINT:LL=LL+1:IFLL=>KKTHENGOSUB2650
:rem 191
2610 PRINTTAB(10)"4."TAB(13)L$(28):LL=LL+1:FOREX=1
TO39:IFEX=40THEN2690 :rem 129
2620 IFCE$(EX)=" "THEN2640 :rem 111
2630 PRINTTAB(7)CE(EX)TAB(13)CE$(EX):LL=LL+1:IFLL=
>KKTHENGOSUB2650 :rem 68
2640 NEXT:IFEX=40THEN2690 :rem 18
2650 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 202
2660 GETA$:IFA$<>"C"THEN2660 :rem 63
2670 PRINT"{CLR}{3 DOWN}":PRINTTAB(8)"STANDARD ACC
OUNT NUMBERS":PRINT:LL=0 :rem 81
2680 PRINTTAB(8)"ACT"TAB(13)"EXPENSE":PRINT:RETURN
:rem 162
2690 PRINT"{2 DOWN}HARD COPY? (Y/N) :rem 98
2700 GETA$:IFA$=" "THEN2700 :rem. 181
2710 IFA$="N"THEN400 :rem 80
2720 IFA$<>"Y"THEN2700 :rem 206
2730 OPEN4,4:LB$=LEFT$(S$,29):PRINT#4,LB$;"STANDAR
D ACCOUNT NUMBER";LF$ :rem 252
2740 PRINT#4,LA$;"ACT NO.":LB$=LEFT$(S$,5):PRINT#
4,LB$;"EXPENSE";LF$ :rem 16
2750 PRINT#4,LA$;"1.{7 SPACES}";L$(25):FOREX=1TO59
:IFNE$(EX)=" "THEN2780 :rem 252
2760 A$=STR$(NE(EX)):RA$=LEFT$(S$,15-LEN(A$)):PRIN
T#4,RA$;NE(EX); :rem 241
2770 LB$=LEFT$(S$,8):PRINT#4,LB$;NE$(EX) :rem 22
2780 NEXT:PRINT#4:PRINT#4,LA$;"2.{7 SPACES}";L$(26
) :rem 108
2790 FOREX=1TO25:IFDE$(EX)=" "THEN2820 :rem 174
2800 A$=STR$(DE(EX)):RA$=LEFT$(S$,15-LEN(A$)):PRIN
T#4,RA$;DE(EX); :rem 216
2810 LB$=LEFT$(S$,8):PRINT#4,LB$;DE$(EX) :rem 7

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2820 NEXT:PRINT#4:PRINT#4,LA$;"3.{7 SPACES}";L$(27
) :rem 105
2830 FOREX=1TO15:IFOE$(EX)="THEN2860 :rem 183
2840 A$=STR$(OE(EX)):RA$=LEFT$(S$,15-LEN(A$)):PRIN
T#4,RA$;OE(EX) :rem 242
2850 LB$=LEFT$(S$,8):PRINT#4,LB$;OE$(EX) :rem 22
2860 NEXT:PRINT#4:PRINT#4,LA$;"4.{7 SPACES}";L$(28
) :rem 111
2870 FOREX=1TO39:IFCE$(EX)="THEN2900 :rem 176
2880 A$=STR$(CE(EX)):RA$=LEFT$(S$,15-LEN(A$)):PRIN
T#4,RA$;CE(EX) :rem 222
2890 LB$=LEFT$(S$,8):PRINT#4,LB$;CE$(EX) :rem 14
2900 NEXT:PRINT#4 :rem 40
2910 PRINT#4,LA$;"NOTE THAT ACCOUNT NUMBERS LESS T
HAN 60 ARE NOT"; :rem 104
2920 LB$=LEFT$(S$,1):PRINT#4,LB$;"TAX DEDUCTIBLE.
:rem 121
2930 PRINT#4,LA$;"ACCOUNT NUMBERS BETWEEN 60 AND 8
4 ARE, AND"; :rem 248
2940 LB$=LEFT$(S$,1):PRINT#4,LB$;"THOSE ABOVE 85 A
RE :rem 192
2950 PRINT#4,LA$;"UNDETERMINED." :rem 194
2960 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO400 :rem 81
2970 POKEBO,10:POKEBA,10:POKE646,1 :rem 254
2980 PRINT"{CLR}{2 DOWN}":PRINTTAB(8)"STANDARD TYP
ES OF EXPENSE" :rem 87
2990 PRINT:PRINTTAB(8)"TYPE"TAB(16)"EXPENSE":PRINT
:rem 192
3000 PRINTTAB(10)"1"TAB(14)"NOT INCOME TAX DEDUCTI
BLE :rem 107
3010 PRINTTAB(10)"2"TAB(14)"INCOME TAX DEDUCTIBLE"
:PRINTTAB(10)"3"TAB(14)"OTHER :rem 150
3020 PRINTTAB(10)"4"TAB(14)"CREDITORS":PRINT:PRINT
:PRINT"{DOWN}HARD COPY? (Y/N) :rem 27
3030 GETA$:IFA$="THEN3030 :rem 175
3040 IFA$="N"THEN400 :rem 77
3050 IFA$<>"Y"THEN3030 :rem 200
3060 OPEN4,4:LB$=LEFT$(S$,33):PRINT#4,LB$;"TYPE OF
EXPENSE";LF$ :rem 188
3070 LB$=LEFT$(S$,27):PRINT#4,LB$;"TYPE"; :rem 93
3080 LB$=LEFT$(S$,10):PRINT#4,LB$;"EXPENSE";LF$
:rem 226
3090 LB$=LEFT$(S$,20):PRINT#4,LB$;"1"; :rem 71
3100 Z$="NOT INCOME TAX DEDUCTIBLE":GOSUB3140:PRIN
T#4,LB$;"2"; :rem 155
3110 Z$="INCOME TAX DEDUCTIBLE":GOSUB3140:PRINT#4,
LB$;"3"; :rem 172
3120 Z$="OTHER OR UNSURE":GOSUB3140:PRINT#4,LB$;"4
";:Z$="CREDITORS":GOSUB3140 :rem 160

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3130 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO400                                :rem 71
3140 LC$=LEFT$(S$,5):PRINT#4,LC$;Z$:RETURN  :rem 0
3150 PRINT"{CLR}{2 DOWN}":POKEBO,7:POKEBA,7:POKE64
      6,0                                    :rem 96
3160 PRINTTAB(12)"SOURCES OF FUNDS":PRINT  :rem 38
3170 PRINT"WHEN LISTING AN EXPENSE, YOU WILL BE":P
      RINT"ASKED:":PRINT                    :rem 235
3180 PRINTTAB(9)"CHECK NO. OR CASH (CAS)?":PRINT
      :rem 21
3190 PRINT"IF PAYMENT IS BY CHECK TYPE CHECK NO.,
      :rem 85
3200 PRINT"IF BY CASH TYPE 'CAS'.{2 SPACES}CREDIT
      {SPACE}CARD                          :rem 39
3210 PRINT"PURCHASES ARE NOT PAYMENTS AND ARE NOT
      :rem 249
3220 PRINT"ENTERED.{2 SPACES}SEE YOUR MANUAL.":PRI
      NT:PRINT:PRINT"HARD COPY? (Y/N)      :rem 28
3230 GETA$:IFA$="THEN3230                  :rem 179
3240 IFA$="N"THEN400                        :rem 79
3250 IFA$<>"Y"THEN3230                      :rem 204
3260 OPEN4,4:LB$=LEFT$(S$,32):PRINT#4,LB$;"SOURCES
      OF FUNDS";LF$                          :rem 7
3270 PRINT#4,LA$;"WHEN LISTING AN EXPENSE, YOU WIL
      L BE ASKED:";LF$                       :rem 122
3280 LB$=LEFT$(S$,28):PRINT#4,LB$;"CHECK NO. OR CA
      SH (CAS)?";LF$                         :rem 37
3290 Z$="IF PAYMENT IS BY CHECK THEN TYPE CHCK NO.
      , AND 'CAS' IF BY":GOSUB3330          :rem 53
3300 Z$="CASH.{2 SPACES}CREDIT CARD PURCHASES ARE
      {SPACE}NOT PAYMENTS AND ARE NOT":GOSUB3330
      :rem 238
3310 Z$="ENTERED.":GOSUB3330                :rem 126
3320 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO400                                :rem 72
3330 PRINT#4,LA$;Z$:RETURN                  :rem 93
3340 PRINT:PRINT"SAVING .";:F$="PERSDATA":OPEN15,8
      ,15:PRINT#15,"S0:"+F$:CLOSE15         :rem 252
3350 OPEN8,8,8,"0:"+F$+",S,W              :rem 187
3360 PRINT#8,YR$", "N$", "N1$", "N2$", "N3$", "N4$CHR$(
      13):PRINT" .";:FORJ=1TO30            :rem 236
3370 PRINT#8,L$(J)",":NEXT:PRINT" .";:CLOSE8:GOSUB
      3580:RETURN                            :rem 213
3380 PRINT:PRINT"SAVING .";:F$="INCDATA":OPEN15,8,
      15:PRINT#15,"S0:"+F$:CLOSE15         :rem 160
3390 OPEN8,8,8,"0:"+F$+",S,W":PRINT#8,F1", "D1", "I1
      CHR$(13):PRINT" .";                  :rem 159
3400 FORJ=1TO39                             :rem 117
3410 PRINT#8,FW$(J)", "FW(J)",":NEXT:PRINT" .";
      :rem 61

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3420 FORJ=1TO9:PRINT#8,IT$(J),"IT(J)",":NEXT
                                     :rem 127
3430 PRINT ".":FORJ=1TO9:PRINT#8,DI$(J),"DI(J)",
      ":NEXT:PRINT ".":
                                     :rem 72
3435 CLOSE 8:GOSUB 3580:RETURN
                                     :rem 33
3440 PRINT:PRINT"SAVING .":F$="EXPDATA":OPEN15,8,
      15:PRINT#15,"S0:"+F$:CLOSE15
                                     :rem 176
3450 OPEN8,8,8,"0:"+F$+",S,W":PRINT#8,E1","E2","E3
      ","E4CHR$(13):PRINT ".":
                                     :rem 176
3460 FORJ=1TO59:PRINT#8,NE$(J),"NE(J)",":NEXT:PRI
      NT ".":FORJ=1TO25
                                     :rem 251
3470 PRINT#8,DE$(J),"DE(J)",":NEXT:PRINT ".":
                                     :rem 27
3480 FORJ=1TO15:PRINT#8,OE$(J),"OE(J)",":NEXT
                                     :rem 160
3490 PRINT ".":FORJ=1TO39:PRINT#8,CE$(J),"CE(J)"
      ",":NEXT:PRINT ".":CLOSE8
                                     :rem 95
3500 GOSUB3580:RETURN
                                     :rem 50
3510 PRINT:PRINT"SORTING .":IFMA<=2THEN3570
                                     :rem 240
3520 FORJJ=1TOMA-2:FORK=JJ+1TOMA-1
                                     :rem 107
3530 IFX$(K)>X$(JJ)THEN3560
                                     :rem 14
3540 SM$=X$(K):SM=X(K):X$(K)=X$(JJ):X(K)=X(JJ)
                                     :rem 136
3550 X$(JJ)=SM$:X(JJ)=SM
                                     :rem 131
3560 NEXT:PRINT ".":NEXT
                                     :rem 250
3570 RETURN
                                     :rem 175
3580 E=0:OPEN15,8,15:INPUT#15,E,E$
                                     :rem 163
3590 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
      EXT
                                     :rem 200
3600 CLOSE15:RETURN
                                     :rem 191
3610 PRINT"{CLR}":PRINTN$:PRINTYR$:PRINT
                                     :rem 196
3620 PRINT:PRINTTAB(12)"LIST OF REPORTS":PRINTTAB(
      12)"[15 T]"
                                     :rem 17
3630 PRINT"FINANCIAL CONDITION:":PRINT
                                     :rem 202
3640 PRINTTAB(3)"BALANCE SHEET . . . . .
      {3 SPACES}10
                                     :rem 53
3650 PRINTTAB(3)"ACCOUNT BALANCES (1 JAN). . . .
      {3 SPACES}20
                                     :rem 147
3660 PRINTTAB(3)"CURRENT BALANCES. . . . .
      {3 SPACES}21
                                     :rem 8
3670 PRINTTAB(3)"VALUE HOUSEHOLD GOODS . . . .
      {3 SPACES}24
                                     :rem 202
3680 PRINTTAB(3)"VALUE ALL PROPERTY. . . . .
      {3 SPACES}25
                                     :rem 95
3690 PRINTTAB(3)"GAIN/LOSS SUMMARY (STOCKS). . .
      {3 SPACES}30
                                     :rem 174
3700 PRINTTAB(3)"UNPAID BILLS. . . . .
      {3 SPACES}40":PRINT
                                     :rem 36
3710 PRINT"RESULTS FOR THE YEAR:":PRINT
                                     :rem 200

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3720 PRINTTAB(3)"PLANNED INCOME.
 {2 SPACES}110 :rem 195
3730 PRINTTAB(3)"PLANNED EXPENDITURES.
 {2 SPACES}120 :rem 32
3740 PRINTTAB(3)"INCOME FOR YEAR
 {2 SPACES}130 :rem 175
3750 PRINTTAB(3)"INVESTMENTS INCOME SUMMARY.
 {2 SPACES}140 :rem 65
3760 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE":GOSU
 B5160 :rem 117
3770 PRINTTAB(3)"EXPENSE FOR YEAR.
 {2 SPACES}150 :rem 17
3780 PRINTTAB(3)"STATEMENT OF INCOME & EXPENSE
 {2 SPACES}160 :rem 228
3790 PRINT:PRINT"RESULTS BY MONTH (CONSISTS OF THE
 FOL- :rem 190
3800 PRINT"LOWING REPORTS FOR EACH MONTH:
 {2 SPACES}PLANNED :rem 51
3810 PRINT"INCOME VS. ACTUAL, PLANNED EXPENDITURES
 :rem 149
3820 PRINT"VS. ACTUAL, INCOME, EXPENSE, AND STATE-
 :rem 229
3830 PRINT"MENT OF INCOME & EXPENSE): :rem 162
3840 PRINT:PRINTTAB(3)"JANUARY
 .{2 SPACES}210 :rem 117
3850 PRINTTAB(3)"FEBRUARY.
 {2 SPACES}220 :rem 246
3860 PRINTTAB(3)"MARCH
 {2 SPACES}230 :rem 49
3870 PRINTTAB(3)"APRIL
 {2 SPACES}240 :rem 64
3880 PRINTTAB(3)"MAY
 {2 SPACES}250 :rem 223
3890 PRINTTAB(3)"JUNE.
 {2 SPACES}260 :rem 44
3900 PRINTTAB(3)"JULY.
 {2 SPACES}270 :rem 55
3910 PRINTTAB(3)"AUGUST.
 {2 SPACES}280 :rem 160
3920 PRINTTAB(3)"SEPTEMBER
 {2 SPACES}290 :rem 20
3930 PRINTTAB(3)"OCTOBER
 {2 SPACES}300 :rem 162
3940 PRINTTAB(3)"NOVEMBER.
 {2 SPACES}310 :rem 244
3950 PRINTTAB(3)"DECEMBER.
 {2 SPACES}320 :rem 207
3960 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE":GOSU
 B5160 :rem 119
3970 PRINT"SUPPORTING STATEMENTS":PRINT :rem 200

3980	PRINTTAB(3)"ACCOUNT BALANCES BY DIS CATEGORY {SPACE}510	:rem 147
3990	PRINTTAB(3)"INCOME FOR YEAR BY TYPE {2 SPACES}520	:rem 222
4000	PRINTTAB(3)"EXPENSE FOR YEAR BY TYPE. . . . {2 SPACES}	:rem 147
4010	PRINTTAB(6)"NOT DEDUCTIBLE {2 SPACES}532	:rem 116
4020	PRINTTAB(6)"DEDUCTIBLE {2 SPACES}534	:rem 226
4030	PRINTTAB(6)"OTHER. {2 SPACES}536	:rem 28
4040	PRINTTAB(6)"CREDITORS. {2 SPACES}538	:rem 240
4050	PRINTTAB(3)"MINIMUM REQUIRED BALANCE. . . . {2 SPACES}550	:rem 136
4060	PRINTTAB(3)"INVESTMENTS {2 SPACES}	:rem 0
4070	PRINTTAB(6)"BONDS. {2 SPACES}600	:rem 12
4080	PRINTTAB(6)"STOCKS {2 SPACES}650	:rem 69
4090	PRINTTAB(6)"OTHER. {2 SPACES}700	:rem 27
4100	PRINTTAB(3)"SUMMARY OF ADJUSTMENTS. {2 SPACES}800	:rem 98
4110	PRINTTAB(3)"ADJUSTMENTS {2 SPACES}810	:rem 135
4120	PRINTTAB(3)"SUMMARY OF TRANSFERS. {2 SPACES}900	:rem 249
4130	PRINTTAB(3)"TRANSFERS {2 SPACES}910	:rem 30
4140	PRINTTAB(3)"BANK STATEMENTS 000	:rem 40
4150	PRINTTAB(3)"PROPERTY LISTS AND SUMMARIES. . {2 SPACES}	:rem 205
4160	PRINTTAB(6)"REAL ESTATE. 2000	:rem 34
4170	PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE":GOSU B5160	:rem 113
4180	PRINTTAB(6)"HOUSEHOLD GOODS.	:rem 67
4190	PRINTTAB(9)"LIVING ROOM 2100	:rem 233
4200	PRINTTAB(9)"DINING ROOM 2200	:rem 210
4210	PRINTTAB(9)"KITCHEN 2300	:rem 64
4220	PRINTTAB(9)"BATHROOM(S) 2400	:rem 224

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4230 PRINTTAB(9)"MASTER BEDROOM. . . . . 2500
      :rem 136
4240 PRINTTAB(9)"BEDROOM NO. 2 . . . . . 2600
      :rem 187
4250 PRINTTAB(9)"BEDROOM NO. 3 . . . . . 2700
      :rem 190
4260 PRINTTAB(9)"ATTIC . . . . . 2800
      :rem 231
4270 PRINTTAB(9)"CELLAR/GARAGE/SHED. . . . 2900
      :rem 60
4280 PRINTTAB(6)"APPLIANCES . . . . . 3000
      :rem 28
4290 PRINTTAB(6)"AUTOMOBILES. . . . . 4000
      :rem 130
4300 PRINTTAB(6)"PERSONAL ITEMS . . . . . 5000
      :rem 227
4310 PRINT:PRINT"HARD COPY? (Y/N)          :rem 254
4320 GETA$:IFA$=" "THEN4320              :rem 181
4330 IFA$="N"THEN400                      :rem 80
4340 IFA$<>"Y"THEN4320                    :rem 206
4350 OPEN4,4:PRINT#4,CHR$(27);CHR$(56):PRINT#4,LA$
      ;N$:PRINT#4,LA$;YR$;LF$             :rem 45
4360 LB$=LEFT$(S$,32)                     :rem 100
4370 PRINT#4,LB$;"LIST OF REPORTS":PRINT#4,LB$;"
      [12 T]":PRINT#4:CLOSE4              :rem 48
4380 PRINT"{CLR}{6 DOWN}":PRINTCHR$(14):PRINTTAB(1
      6)"PRINTING":OPEN4,4,7              :rem 255
4390 PRINT#4,LA$;"FINANCIAL{SHIFT-SPACE}CONDITION:
      ";LF$:LB$=LEFT$(S$,15)             :rem 217
4400 PRINT#4,LB$;"BALANCE SHEET . . . . .
      {SPACE}. . . . .{3 SPACES}10       :rem 181
4410 PRINT#4,LB$;"ACCOUNT BALANCES (1 JAN). . . .
      {SPACE}. . . . .{3 SPACES}20       :rem 147
4420 PRINT#4,LB$;"CURRENT BALANCES. . . . .
      {SPACE}. . . . .{3 SPACES}21       :rem 136
4430 PRINT#4,LB$;"VALUE HOUSEHOLD GOODS . . . . .
      {SPACE}. . . . .{3 SPACES}24       :rem 202
4440 PRINT#4,LB$;"VALUE ALL PROPERTY. . . . .
      {SPACE}. . . . .{3 SPACES}25       :rem 223
4450 PRINT#4,LB$;"GAIN/LOSS SUMMARY (STOCKS). . .
      {SPACE}. . . . .{3 SPACES}30       :rem 46
4460 PRINT#4,LB$;"UNPAID BILLS. . . . .
      {SPACE}. . . . .{3 SPACES}40";LF$
      :rem 215
4470 PRINT#4,LA$;"RESULTS{SHIFT-SPACE}FOR
      {SHIFT-SPACE}THE{SHIFT-SPACE}YEAR:";LF$
      :rem 197
4480 PRINT#4,LB$;"PLANNED INCOME. . . . .
      {SPACE}. . . . .{2 SPACES}110     :rem 76

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4490 PRINT#4, LB$; "PLANNED EXPENDITURES. . . . .
{SPACE}. . . . .{2 SPACES}120 :rem 169
4500 PRINT#4, LB$; "INCOME FOR YEAR . . . . .
{SPACE}. . . . .{2 SPACES}130 :rem 47
4510 PRINT#4, LB$; "INVESTMENTS INCOME SUMMARY. . .
{SPACE}. . . . .{2 SPACES}140 :rem 65
4520 PRINT#4, LB$; "EXPENSE FOR YEAR. . . . .
{SPACE}. . . . .{2 SPACES}150 :rem 144
4530 PRINT#4, LB$; "STATEMENT OF INCOME & EXPENSE .
{SPACE}. . . . .{2 SPACES}160"; LF$
:rem 246
4540 PRINT#4, LA$; "RESULTS{SHIFT-SPACE}BY
{SHIFT-SPACE}MONTH (CONSISTS OF THE FOLLOWING
REPORTS FOR EACH :rem 106
4550 PRINT#4, LA$; "MONTH:{2 SPACES}PLANNED INCOME V
S. ACTUAL, PLANNED EXPENDITURES VS. :rem 31
4560 PRINT#4, LA$; "ACTUAL, INCOME, EXPENSE, AND STA
TEMENT OF INCOME & EXPENSE): :rem 119
4570 PRINT#4 :rem 180
4580 PRINT#4, LB$; "JANUARY . . . . .
{SPACE}. . . . .{2 SPACES}210 :rem 181
4590 PRINT#4, LB$; "FEBRUARY. . . . .
{SPACE}. . . . .{2 SPACES}220 :rem 253
4600 PRINT#4, LB$; "MARCH . . . . .
{SPACE}. . . . .{2 SPACES}230 :rem 47
4610 PRINT#4, LB$; "APRIL . . . . .
{SPACE}. . . . .{2 SPACES}240 :rem 62
4620 PRINT#4, LB$; "MAY . . . . .
{SPACE}. . . . .{2 SPACES}250 :rem 221
4630 PRINT#4, LB$; "JUNE. . . . .
{SPACE}. . . . .{2 SPACES}260 :rem 42
4640 PRINT#4, LB$; "JULY. . . . .
{SPACE}. . . . .{2 SPACES}270 :rem 62
4650 PRINT#4, LB$; "AUGUST. . . . .
{SPACE}. . . . .{2 SPACES}280 :rem 167
4660 PRINT#4, LB$; "SEPTEMBER . . . . .
{SPACE}. . . . .{2 SPACES}290 :rem 27
4670 PRINT#4, LB$; "OCTOBER . . . . .
{SPACE}. . . . .{2 SPACES}300 :rem 169
4680 PRINT#4, LB$; "NOVEMBER. . . . .
{SPACE}. . . . .{2 SPACES}310 :rem 251
4690 PRINT#4, LB$; "DECEMBER. . . . .
{SPACE}. . . . .{2 SPACES}320"; LF$
:rem 233
4700 PRINT#4, LA$; "SUPPORTING{SHIFT-SPACE}STATEMENT
S: "; LF$ :rem 249
4710 PRINT#4, LB$; "ACCOUNT BALANCES BY DIS CATEGORY
. . . . .{2 SPACES}510 :rem 144
4720 PRINT#4, LB$; "INCOME FOR YEAR BY TYPE . . . .
{SPACE}. . . . .{2 SPACES}520 :rem 219

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4730 PRINT#4, LB$; "EXPENSE FOR YEAR BY TYPE. . . .
      {SPACE}. . . . .{2 SPACES}           :rem 162
4740 LC$=LEFT$(S$, 20)                       :rem 100
4750 PRINT#4, LC$; "NOT DEDUCTIBLE . . . . .
      . . . . .{2 SPACES} 532             :rem 212
4760 PRINT#4, LC$; "DEDUCTIBLE . . . . .
      . . . . .{2 SPACES} 534             :rem 194
4770 PRINT#4, LC$; "OTHER. . . . .
      . . . . .{2 SPACES} 536             :rem 252
4780 PRINT#4, LC$; "CREDITORS. . . . .
      . . . . .{2 SPACES} 538"; LF$; LF$   :rem 212
4790 PRINT#4, LC$; "{19 SPACES}II"; LF$; LF$; LF$
                                             :rem 123
4800 PRINT#4:CLOSE4:PRINT"{CLR}{6 DOWN}"    :rem 152
4810 PRINT"INSERT NEW SHEET IN PRINTER":SYS828
                                             :rem 108
4820 PRINT"{4 DOWN}PRESS 'C' WHEN READY    :rem 134
4830 GETA$: IFA$="THEN4830                 :rem 193
4840 IFA$<>"C"THEN4830                     :rem 195
4850 OPEN4, 4, 7                           :rem 250
4860 PRINT#4, LB$; "MINIMUM{SHIFT-SPACE}REQUIRED BAL
      ANCE. . . . .{2 SPACES} 550
                                             :rem 54
4870 PRINT#4, LB$; "INVESTMENTS . . . . .
      {SPACE}. . . . .{2 SPACES}         :rem 14
4880 PRINT#4, LC$; "BONDS. . . . .
      . . . . .{2 SPACES} 600           :rem 234
4890 PRINT#4, LC$; "STOCKS . . . . .
      . . . . .{2 SPACES} 650           :rem 35
4900 PRINT#4, LC$; "OTHER. . . . .
      . . . . .{2 SPACES} 700           :rem 240
4910 PRINT#4, LB$; "SUMMARY OF ADJUSTMENTS. . . . .
      {SPACE}. . . . .{2 SPACES} 800    :rem 240
4920 PRINT#4, LB$; "ADJUSTMENTS . . . . .
      {SPACE}. . . . .{2 SPACES} 810    :rem 149
4930 PRINT#4, LB$; "SUMMARY OF TRANSFERS. . . . .
      {SPACE}. . . . .{2 SPACES} 900    :rem 135
4940 PRINT#4, LB$; "TRANSFERS . . . . .
      {SPACE}. . . . .{2 SPACES} 910    :rem 44
4950 PRINT#4, LB$; "BANK STATEMENTS . . . . .
      {SPACE}. . . . .1000              :rem 182
4960 PRINT#4, LB$; "PROPERTY LISTS AND SUMMARIES. . . . .
      {SPACE}. . . . .{2 SPACES}       :rem 219
4970 PRINT#4, LC$; "REAL ESTATE. . . . .
      . . . . .2000                    :rem 128
4980 PRINT#4, LC$; "HOUSEHOLD GOODS. . . . .
      . . . . .                        :rem 160
4990 LB$=LEFT$(S$, 25)                     :rem 111
5000 PRINT#4, LB$; "LIVING ROOM . . . . .
      {SPACE}. . . . .2100              :rem 3

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5010 PRINT#4, LB$; "DINING ROOM . . . . .
      {SPACE}. . . 2200 :rem 245
5020 PRINT#4, LB$; "KITCHEN . . . . .
      {SPACE}. . . 2300 :rem 227
5030 PRINT#4, LB$; "BATHROOM(S) . . . . .
      {SPACE}. . . 2400 :rem 131
5040 PRINT#4, LB$; "MASTER BEDROOM. . . . .
      {SPACE}. . . 2500 :rem 171
5050 PRINT#4, LB$; "BEDROOM NO. 2 . . . . .
      {SPACE}. . . 2600 :rem 222
5060 PRINT#4, LB$; "BEDROOM NO. 3 . . . . .
      {SPACE}. . . 2700 :rem 225
5070 PRINT#4, LB$; "ATTIC . . . . .
      {SPACE}. . . 2800 :rem 138
5080 PRINT#4, LB$; "CELLAR/GARAGE/SHED. . . . .
      {SPACE}. . . 2900 :rem 223
5090 PRINT#4, LC$; "APPLIANCES . . . . .
      . . . . . 3000 :rem 241
5100 PRINT#4, LC$; "AUTOMOBILES. . . . .
      . . . . . 4000 :rem 78
5110 PRINT#4, LC$; "PERSONAL ITEMS . . . . .
      . . . . . 5000 :rem 22
5120 FORLL=1TO14:PRINT#4, LF$:NEXT :rem 54
5130 PRINT#4, LC$; "{19 SPACES}III"; LF$; LF$; LF$
      :rem 185
5140 PRINT#4:CLOSE4:PRINTCHR$(142) :rem 66
5150 GOTO400 :rem 152
5160 GETA$:IFA$=" "THEN5160 :rem 187
5170 IFA$<>"C"THEN5160 :rem 189
5180 PRINT"{CLR}":RETURN :rem 76
5190 POKEBO,14:POKEBA,6:POKE646,14 :rem 8
5200 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
      DISK":PRINT :rem 1
5210 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
      ROGRAM DISK":PRINT"{4 DOWN} :rem 157
5220 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 255
5230 GETA$:IFA$=" "THEN5230 :rem 183
5240 IFA$<>"C"THEN5230 :rem 185
5250 POKE631,83:POKE632,89:POKE633,83 :rem 105
5260 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13 :rem 75
5270 POKE198,9:NEW :rem 40

```

CHAPTER FOURTEEN

INCOME

Remember to use the name above for the program you place on the PAM master disk.

```
20 BO=53280:BA=53281 :rem 47
30 N=200:FE=0:F1=0:D1=0:I1=0:Y=0:MA=0:M=0:LL=0:YI=
   0:TA=0:TL=0:PN=0 :rem 134
40 TR=0:PR=0:PL=0:LFS=CHR$(10):CR$=CHR$(13):SP$=CH
   R$(32):NC=80:PC=0 :rem 104
50 N$="":N1$="":N2$="":N3$="":N4$="":TA$="":SM$=""
   :RM$="":UM$="" :rem 166
60 VM$="":TM$="":P$="":PL$="":PR$="":A$="":Z$=""
   :rem 144
70 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
   0):LB$="":RA$="" :rem 30
75 F1$="{HOME}{15 DOWN}":ER1$="{43 SPACES}":rem 65
77 F2$="{HOME}{13 DOWN}":F3$=F2$+"{2 UP}":rem 188
80 DIML$(30),M$(12),FW$(40),IT$(10),DI$(10):DIMFW(
   40),IT(10),DI(10) :rem 211
90 DIMI$(200,5):M$(1)="JANUARY":M$(2)="FEBRUARY
   :rem 169
100 M$(3)="MARCH":M$(4)="APRIL":M$(5)="MAY":M$(6)=
   "JUNE :rem 247
110 M$(7)="JULY":M$(8)="AUGUST :rem 188
120 M$(9)="SEPTEMBER":M$(10)="OCTOBER :rem 128
130 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,5:P
   OKEBA,5:POKE646,1 :rem 188
140 PRINT"{CLR}{3 DOWN}":PRINTTAB(17)"INCOME":FORD
   =1TO5000:NEXT :rem 54
150 POKEBO,14:POKEBA,6:POKE646,14 :rem 207
160 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
   AM DISK":PRINT :rem 205
170 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
   TA DISK":PRINT:PRINT"{4 DOWN} :rem 56
180 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 207
190 GETA$:IFA$<>"C"THEN190 :rem 215
200 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
   {2 DOWN}":PRINTTAB(17)"INCOME":PRINT:PRINT
   :rem 102
210 PRINT"LOADING PERSONAL DATA ";:F$="PERSDATA
   :rem 114
220 OPENS,8,8,"0":"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
   $,N3$,N4$:PRINT". "; :rem 21
230 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT". ";:CLOSE
   8:GOSUB2480:IFE>19THEN150 :rem 110
240 F$="INCDATA":OPENS,8,8,"0":"+F$+",S,R":INPUT#8,
   F1,D1,I1:PRINT". "; :rem 63
250 FORJ=1TO39:INPUT#8,FW$(J),FW(J):NEXT:PRINT". "
   ; :rem 67
260 FORJ=1TO9:INPUT#8,IT$(J),IT(J):NEXT:PRINT". ";
   :rem 17
```

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FOURTEEN

```

270 FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXT:PRINT ". ";
    :CLOSE8                                     :rem 218
280 GOSUB2480:IFE>19THEN150                     :rem 99
290 POKEBO,5:POKEBA,5:POKE646,1:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(17)"INCOME               :rem 116
300 PRINTTAB(8)"{DOWN}1. ENTER/CHANGE DATA":PRINTT
    AB(8)"{DOWN}2. VIEW INCOME FOR MONTH         :rem 190
310 PRINTTAB(8)"{DOWN}3. VIEW INCOME FOR YEAR":PRI
    NTTAB(8)"{DOWN}4. VIEW INCOME BY TYPE       :rem 212
320 PRINTTAB(8)"{DOWN}5. MAIN MENU":PRINTTAB(10)"
    {4 DOWN}PRESS DESIRED NUMBER                :rem 160
330 GETA$:IFA$=""THEN330                         :rem 79
340 IFA$<"1"ORA$>"5"THEN330                     :rem 190
350 AA=VAL(A$):ONAAGOTO360,1680,2540,3110,3570
                                                :rem 249
360 PRINT"{CLR}{3 DOWN}":POKEBO,13:POKEBA,13:POKE6
    46,0:PRINTTAB(12)"ENTER/CHANGE DATA        :rem 124
370 PRINTTAB(11)"{DOWN}1. START NEW MONTH":PRINTTA
    B(11)"{DOWN}2. ADD NEW INCOME               :rem 181
380 PRINTTAB(11)"{DOWN}3. CORRECTIONS":PRINTTAB(11
    )" {DOWN}4. DELETE                           :rem 76
390 PRINTTAB(11)"{DOWN}5. INCOME MENU":PRINTTAB(10
    )" {4 DOWN}PRESS DESIRED NUMBER            :rem 103
400 GETA$:IFA$=""THEN400                         :rem 75
410 IFA$<"1"ORA$>"5"THEN400                     :rem 186
420 AA=VAL(A$):ONAAGOTO430,490,1120,1420,290
                                                :rem 138
430 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:PR
    INT"STARTING NEW MONTH                       :rem 97
440 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)":M:PRI
    NT:MA=1                                       :rem 26
450 POKEBO,5:POKEBA,5:POKE646,1:GOSUB460:GOTO510
                                                :rem 202
460 PRINT"CLEARING MEMORY . .":FORZ=1TON:rem 250
470 FORK=1TO5:I$(Z,K)="" :NEXT:PRINT ". ";:NEXT
                                                :rem 195
480 PRINT:RETURN                                 :rem 67
490 POKEBO,5:POKEBA,5:POKE646,1:PRINTTAB(13)"{CLR}
    {2 DOWN}ADD NEW INCOME                       :rem 9
500 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)":M:GOS
    UB2430:IFE>19THEN290                         :rem 29
510 FORJ=MATON:PRINT"{CLR}{2 DOWN}ALWAYS USE STAND
    ARD TYPE, FROM WHOM                         :rem 13
520 PRINT"NAME, AND DISPOSITION CODES.":PRINT:PRIN
    T                                              :rem 7
530 PRINTTAB(13)"{2 DOWN}ADD NEW INCOME"       :rem 133
540 PRINT"{DOWN}ITEM NO.":J:PRINT:FORK=1TO5
                                                :rem 115
550 IFK=2THENPRINT"IF DESIRED, PRESS 'T' (RETURN)
    {2 SPACES}FOR                                :rem 195

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```
560 IFK=2THENPRINT"LIST OF STANDARD INCOME TYPES
                                :rem 52
570 IFK=3THENPRINT"IF DESIRED, PRESS 'F' (RETURN)
    {SPACE}FOR                  :rem 184
580 IFK=3THENPRINT"LIST OF STANDARD NAMES
    {9 SPACES}                  :rem 91
590 IFK=4THENPRINT"IF DESIRED, PRESS 'D' (RETURN)
    {SPACE}FOR                  :rem 185
600 IFK=4THENPRINT"LIST OF STANDARD DISPOSITION
                                :rem 54
610 PRINT:PRINTL$(K);          :rem 50
620 INPUTI$(J,K):IFI$(J,K)=" "THEN620      :rem 55
630 IFI$(J,2)="T"THENGOSUB820:GOTO610      :rem 182
640 IFI$(J,3)="F"THENGOSUB980:GOTO610      :rem 177
650 LL=LEN(I$(J,3)):IFLL>15THENI$(J,3)=LEFT$(I$(J,
    3),15)                      :rem 120
660 IFI$(J,4)="D"THENGOSUB900:GOTO610      :rem 170
670 IFK<>5THEN710              :rem 237
680 P$=I$(J,5):GOSUB2510:IFE=1THEN610      :rem 194
690 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN720
                                :rem 231
700 PRINT F2$;"ERROR--AMOUNT NOT IN X.XX FORM":SYS
    828:FORD=1TO1000:NEXT        :rem 116
705 GOSUB 5000:GOTO 610         :rem 235
710 GOSUB780                    :rem 183
720 NEXT:MA=MA+1:PRINT"{CLR}{7 DOWN}":PRINTTAB(10)
    "ANOTHER ITEM? (Y/N)       :rem 244
730 GETA$:IFA$=" "THEN730      :rem 87
740 IFA$="N"THENJ=N:GOTO760    :rem 114
750 IFA$<>"Y"THEN730          :rem 112
760 NEXT:GOSUB2080:PRINT:GOSUB2210:PRINT:GOSUB2380
    :IFE>19THEN360             :rem 114
770 GOTO1710                    :rem 160
780 PRINT"{CLR}{2 DOWN}ALWAYS USE STANDARD TYPE, F
    ROM WHOM                   :rem 239
790 PRINT"NAME, AND DISPOSITION CODES.":PRINT:PRIN
    T                           :rem 16
800 PRINTTAB(13)"{2 DOWN}ADD NEW INCOME" :rem 133
810 PRINT"{DOWN}ITEM NO.":J:PRINT:RETURN :rem 219
820 PRINT"{CLR}{2 DOWN}":PRINTTAB(8)"STANDARD TYPE
    S OF INCOME":PRINT        :rem 136
830 PRINTTAB(10)"TYPE"TAB(16)"INCOME":PRINT:FORZ=1
    TO9:IFIT$(Z)=" "THEN850    :rem 211
840 PRINTTAB(12)IT(Z)TAB(16)IT$(Z)       :rem 247
850 NEXT:PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                :rem 19
860 GETA$:IFA$<>"C"THEN860    :rem 223
870 PRINT"{CLR}{2 DOWN}ALWAYS USE STANDARD TYPE, F
    ROM WHOM                   :rem 239
```

```

880 PRINT"NAME, AND DISPOSITION CODES.":PRINT:PRIN
TTAB(13){2 DOWN}ADD NEW INCOME :rem 78
890 PRINT"{DOWN}ITEM NO.":J:PRINT:RETURN :rem 227
900 PRINT"{CLR}{2 DOWN}":PRINTTAB(5)"STANDARD DISP
OSITION OF INCOME":PRINT :rem 68
910 PRINTTAB(8)"DIS"TAB(13)"INCOME":PRINT:FORZ=1TO
9:IFDI$(Z)="THEN930 :rem 51
920 DK$(Z)=LEFT$(DI$(Z),3):PRINTTAB(8)DK$(Z)TAB(13
)DI$(Z) :rem 254
930 NEXT:PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 18
940 GETA$:IFAS<>"C"THEN940 :rem 221
950 PRINT"{CLR}{2 DOWN}ALWAYS USE STANDARD TYPE, F
ROM WHOM :rem 238
960 PRINT"NAME, AND DISPOSITION CODES.":PRINT:PRIN
TTAB(13){2 DOWN}ADD NEW INCOME :rem 77
970 PRINT"{DOWN}ITEM NO.":J:PRINT:RETURN :rem 226
980 PRINT"{CLR}{2 DOWN}":PRINT"STANDARD LIST OF FR
OM WHOM INCOME IS :rem 248
990 PRINT:PRINT"RECEIVED.{2 SPACES}SPELL EXACTLY:"
:PRINT:LL=0:FORFW=1TO39 :rem 196
1000 IFFW$(FW)="THEN1020 :rem 114
1010 PRINTTAB(10)FW$(FW):LL=LL+1:IFLL=15THEN1030
:rem 129
1020 NEXT:IFFW=40THEN1070 :rem 0
1030 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 193
1040 GETA$:IFAS<>"C"THEN1040 :rem 45
1050 PRINT"{CLR}{2 DOWN}":PRINT"STANDARD LIST OF F
ROM WHOM INCOME IS :rem 29
1060 PRINT:PRINT"RECEIVED.{2 SPACES}SPELL EXACTLY:"
:PRINT:LL=0:GOTO1020 :rem 228
1070 PRINT:PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 140
1080 GETA$:IFAS<>"C"THEN1080 :rem 53
1090 PRINT"{CLR}{2 DOWN}ALWAYS USE STANDARD TYPE,
{SPACE}FROM WHOM :rem 26
1100 PRINT"NAME, AND DISPOSITION CODES.":PRINT:PRI
NTTAB(13){2 DOWN}ADD NEW INCOME :rem 112
1110 PRINT"{DOWN}ITEM NO.":J:PRINT:RETURN :rem 5
1120 PRINT"{CLR}":POKEBO,10:POKEBA,10:POKE646,1:PR
INTTAB(15){DOWN}CORRECTIONS":PRINT :rem 74
1130 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
T"OF REPORT DESIRED":M :rem 198
1140 GOSUB2430:IFE>19THEN290 :rem 143
1150 LL=0:K=14:PRINT"{CLR}":PRINTTAB(15){DOWN}COR
RECTIONS":PRINT :rem 77
1160 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
:rem 91

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```
1170 FORJ=1TOMA-1:PRINTTAB(3)JTAB(10)I$(J,3);
:rem 142
1180 PRINTTAB(39-LEN(I$(J,5)))I$(J,5):LL=LL+1:IFLL
=>KTHEN1200 :rem 54
1190 NEXT:IFJ=MATHEN1240 :rem 222
1200 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 192
1210 GETA$:IFA$<>"C"THEN1210 :rem 43
1220 LL=0:PRINT"{CLR}":PRINTTAB(15)"{DOWN}CORRECTI
ONS":PRINT :rem 36
1230 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
:GOTO1190 :rem 151
1240 PRINT :rem 84
1250 A$="":PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO CO
RRECT";A$ :rem 165
1260 JJ=VAL(A$):IFJJ<=0ORJJ>MA-1THEN1250 :rem 143
1270 PRINT"{CLR}":PRINT"CORRECT ITEM ";A$:PRINT"
{DOWN}PRESS RETURN IF NO CHANGE:":PRINT
:rem 118
1280 PRINTL$(1);:PRINTTAB(14)I$(JJ,1);:INPUTI$(JJ,
1) :rem 60
1290 PRINTL$(2);:PRINTTAB(14)I$(JJ,2);:INPUTI$(JJ,
2) :rem 64
1300 PRINTL$(3);:PRINTTAB(14)I$(JJ,3);:INPUTI$(JJ,
3):LL=LEN(I$(JJ,3)) :rem 43
1310 IFL>15THENI$(JJ,3)=LEFT$(I$(JJ,3),15)
:rem 144
1320 PRINTL$(4);:PRINTTAB(14)I$(JJ,4);:INPUTI$(JJ,
4) :rem 64
1330 PRINTF2$;L$(5);:PRINTTAB(14)I$(JJ,5);:I2$=I$(
JJ,5):INPUTI$(JJ,5) :rem 228
1335 P$=I$(JJ,5) :rem 48
1340 GOSUB2510:IFEFE=1THENI$(JJ,5)=I2$:GOTO 1330
:rem 202
1350 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN1370
:rem 67
1360 PRINTF2$;"ERROR--AMOUNT NOT IN X.XX FORM":SYS
828:FORD=1TOL000:NEXT :rem 167
1365 I$(JJ,5)=I2$:GOSUB 5000:GOTO 1330 :rem 23
1370 PRINT"{CLR}{7 DOWN}":PRINTTAB(10)"ANOTHER ITE
M? (Y/N) :rem 190
1380 GETA$:IFA$=" "THEN1380 :rem 187
1390 IFA$="Y"THEN1150 :rem 145
1400 IFA$<>"N"THEN1380 :rem 192
1410 GOSUB2080:PRINT:GOSUB2210:PRINT:GOSUB2380:GOT
O360 :rem 176
1420 PRINT"{CLR}":POKEBO,2:POKEBA,2:POKE646,1:PRIN
TTAB(15)"{DOWN}DELETIONS":FE=1:PRINT :rem 126
1430 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
T"OF REPORT DESIRED";M :rem 201
```

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```

1440 GOSUB2430:IFE>19THEN290 :rem 146
1450 LL=0:K=14:PRINT "{CLR}":PRINTTAB(16)" {DOWN}DEL
ETIONS":PRINT :rem 173
1460 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
:rem 94
1470 FORJ=1TOMA-1:PRINTTAB(3)JTAB(10)I$(J,3);
:rem 145
1480 PRINTTAB(39-LEN(I$(J,5)))I$(J,5):LL=LL+1:IFLL
=KTHEN1500 :rem 254
1490 NEXT:IFJ=MATHEN1550 :rem 229
1500 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 195
1510 GETA$:IFA$<>"C"THEN1510 :rem 49
1520 LL=0:PRINT "{CLR}":PRINTTAB(15)" {DOWN}DELETION
S":PRINT :rem 131
1530 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5)
:rem 149
1540 PRINT:GOTO1490 :rem 152
1550 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY
{SPACE}TO EXIT :rem 182
1560 GETA$:IFA$=""THEN1560 :rem 187
1570 IFA$<>"C"THEN360 :rem 138
1580 PRINT :rem 91
1590 A$="" :PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO DE
LETE";A$ :rem 77
1600 JJ=VAL(A$):IFJJ<=0ORJJ>MA-1THEN1590 :rem 148
1610 PRINT "{CLR}":PRINT"DELETE ITEM ";A$:PRINT:I$(
JJ,1)="99":I$(JJ,2)="0 :rem 213
1615 PRINT F1$;" {3 DOWN}{8 SPACES}PRESS ANY KEY TO
CONTINUE" :rem 13
1616 GETR$:IF R$="" THEN 1616 :rem 225
1620 I$(JJ,3)="ZZZZZZZZZZZZZZZZ":I$(JJ,4)="0":I$(JJ
,5)="0.00 :rem 232
1630 PRINT "{CLR}{7 DOWN}":PRINTTAB(10)"ANOTHER ITE
M? (Y/N) :rem 189
1640 GETA$:IFA$=""THEN1640 :rem 185
1650 IFA$="Y"THENFE=FE+1:GOTO1450 :rem 181
1660 IFA$<>"N"THEN1640 :rem 199
1670 GOSUB2080:PRINT:GOSUB2210:PRINT:MA=MA-FE:GOSU
B2380:GOTO360 :rem 3
1680 PRINT "{CLR}":POKEBO,15:POKEBA,15:POKE646,11
:rem 212
1690 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
T"OF REPORT DESIRED";M :rem 209
1700 GOSUB460:YI=0:GOSUB2430:IFE>19THEN290 :rem 46
1710 POKEBO,5:POKEBA,5:POKE646,1:K=14:GOSUB1870:FO
RJ=1TOMA-1 :rem 182
1720 IFM>9THENZ$=STR$(M):PRINTMID$(Z$,2)SPC(1)I$(J
,1);:GOTO1740 :rem 251
1730 PRINTM;I$(J,1); :rem 128

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1740 PRINTTAB(7) I$(J,2)TAB(10) I$(J,3)TAB(26) I$(J,4
)TAB(30)"$"; :rem 52
1750 PRINTTAB(39-LEN(I$(J,5))) I$(J,5):LL=LL+1:IFLL
=KTHEN1770 :rem 7
1760 NEXT:IFJ=>MATHEN1800 :rem 33
1770 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 204
1780 GETA$: IFA$<>"C"THEN1780 :rem 67
1790 GOSUB1870:GOTO1760 :rem 98
1800 PRINTTAB(29)"[10 T]":PRINTTAB(21)L$(17)"
{3 SPACES}$"; :rem 169
1810 PRINTTAB(39-LEN(TA$))TA$ :rem 186
1820 PRINT"{2 DOWN}HARD COPY (Y/N) ? :rem 92
1830 GETA$: IFA$="N"THEN1830 :rem 187
1840 IFA$="N"THEN290 :rem 90
1850 IFA$<>"Y"THEN1830 :rem 212
1860 GOTO1910 :rem 211
1870 LL=0:PRINT "{CLR}":PN=202+10*M:PRINTN$TAB(35)P
N:PRINT "{UP}"M$(M)+" "+YR$ :rem 154
1880 PRINTTAB(17)"INCOME":PRINTTAB(17)"[6 T]
:rem 56
1890 PRINT"DATE"TAB(6)"TY"TAB(10)"FROM WHOM"TAB(26
)"DIS"TAB(33)"AMOUNT :rem 132
1900 FORL=1TO39:PRINT "[T]"; :NEXT:PRINT:RETURN
:rem 189
1910 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$ :rem 243
1920 PRINT#4,LA$;M$(M)+" "+YR$;LF$;LF$ :rem 34
1930 LB$=LEFT$(S$,37):PRINT#4,LB$;"INCOME";LF$:PRI
NT#4,LB$;"[5 T]";LF$ :rem 43
1940 PRINT#4,LA$;"DATE{4 SPACES}TY{5 SPACES}FROM W
HOM"; :rem 131
1950 LB$=LEFT$(S$,15):PRINT#4,LB$;"DIS"; :rem 253
1960 LB$=LEFT$(S$,12):PRINT#4,LB$;"AMOUNT";LF$
:rem 165
1970 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$:FORJ=1TOMA-1 :rem 242
1980 GOSUB2060:PRINT#4,RA$;M;I$(J,1);"{4 SPACES}";
I$(J,2);"{5 SPACES}";I$(J,3); :rem 191
1990 LB$=LEFT$(S$,24-LEN(I$(J,3))):PRINT#4,LB$;I$(
J,4);"{4 SPACES}";"$"; :rem 43
2000 LB$=LEFT$(S$,13-LEN(I$(J,5))):PRINT#4,LB$;I$(
J,5);LF$:NEXT :rem 40
2010 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF$
:rem 204
2020 LB$=LEFT$(S$,48):PRINT#4,LB$;L$(17);"
{3 SPACES}$"; :rem 160
2030 RA$=LEFT$(S$,13-LEN(TA$)):PRINT#4,RA$;TA$;LF$
:rem 92

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2040 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$;:PR
      INT#4,LB$;"DDDDDDDDDDDD" :rem 210
2050 FORSP=1T012:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO290 :rem 78
2060 MM$=STR$(M):IFLEFT$(MM$,1)="" THENMM$=MID$(MM
      $,2) :rem 24
2070 RA$=LEFT$(S$,11-LEN(MM$)):RETURN :rem 151
2080 PRINT:PRINT"{3 DOWN}SUMMING . .";:TA=0:TL=0:T
      R=0:TA$="" :FORJ=1TOMA-1:PRINT" ."; :rem 108
2090 P$=I$(J,5):GOSUB2180:TL=TL+PL:TR=TR+PR:NEXT
      :rem 241
2100 TA=TL+TR:IFTA=0THENTA$="0.00":RETURN :rem 18
2110 TA$=STR$(TA+.001):TA$=LEFT$(TA$,LEN(TA$)-1):R
      ETURN :rem 189
2120 TA=0:TL=0:TR=0:P$=I$(JC,5):GOSUB2180:TL=PL-1:
      TR=PR+1 :rem 163
2130 P$=I5$:GOSUB2180:TL=TL+PL:TR=TR+PR:TA=TL+TR
      :rem 41
2140 IFTA=0THENI$(JC,5)="0.00":RETURN :rem 140
2150 IFTA<0THENI$(JC,5)=STR$(TA-.001) :rem 95
2160 IFTA>0THENI$(JC,5)=STR$(TA+.001) :rem 96
2170 I$(JC,5)=LEFT$(I$(JC,5),LEN(I$(JC,5))-1):RETU
      RN :rem 127
2180 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$):PR$=RIGHT
      $(P$,3):PR=VAL(PR$) :rem 41
2190 IFPL<0THENPR=PR*-1 :rem 155
2200 RETURN :rem 164
2210 IFMA<2THEN2290 :rem 137
2220 PRINT"NOW SORTING . .";:FORJJ=1TOMA-2:FORKK=JJ
      +1TOMA-1 :rem 110
2230 IFI$(KK,1)>I$(JJ,1)THEN2280 :rem 239
2240 SM$=I$(KK,1):RM$=I$(KK,2):TM$=I$(KK,3):UM$=I$
      (KK,4):VM$=I$(KK,5) :rem 57
2250 I$(KK,1)=I$(JJ,1):I$(KK,2)=I$(JJ,2):I$(KK,3)=
      I$(JJ,3) :rem 26
2260 I$(KK,4)=I$(JJ,4):I$(KK,5)=I$(JJ,5) :rem 76
2270 I$(JJ,1)=SM$:I$(JJ,2)=RM$:I$(JJ,3)=TM$:I$(JJ,
      4)=UM$:I$(JJ,5)=VM$ :rem 50
2280 NEXT:PRINT" .";:NEXT :rem 248
2290 RETURN :rem 173
2300 IFMY=2THEN2370 :rem 100
2310 PRINT:PRINT"SORTING . .";:FORJJ=1TOMY-2:FORKK=J
      J+1TOMY-1 :rem 67
2320 IFI$(KK,3)>I$(JJ,3)THEN2360 :rem 242
2330 SM$=I$(KK,3):RM$=I$(KK,2):TM$=I$(KK,5):UM$=I$
      (KK,4) :rem 74
2340 I$(KK,3)=I$(JJ,3):I$(KK,2)=I$(JJ,2):I$(KK,5)=
      I$(JJ,5):I$(KK,4)=I$(JJ,4) :rem 255
2350 I$(JJ,3)=SM$:I$(JJ,2)=RM$:I$(JJ,5)=TM$:I$(JJ,
      4)=UM$ :rem 68

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```

2360 NEXT:PRINT " . ";:NEXT           :rem 247
2370 RETURN                           :rem 172
2380 PRINT "I'M SAVING . .";:F$="INCOME"+M$(M):OPEN
      15,8,15:PRINT#15,"S0:"+F$       :rem 174
2390 CLOSE15:OPEN8,8,8,"0:"+F$+" ,S,W":PRINT#8,Y," "
      MA","M","TA$","N$CHR$(13)      :rem 25
2400 FORJB=1TOMA-1                    :rem 54
2410 PRINT#8,I$(JB,1),"I$(JB,2)","I$(JB,3)","I$(JB,4)",
      "I$(JB,5)CHR$(13)              :rem 158
2420 PRINT " . ";:NEXT:CLOSE8:YI=0:GOSUB2480:RETURN
                                           :rem 78
2430 PRINT:PRINT "LOADING . ";:F$="INCOME"+M$(M):OPE
      N8,8,8,"0:"+F$+" ,S,R         :rem 7
2440 INPUT#8,Y,MA,M,TA$,N$:FORJB=1TOMA-1 :rem 154
2450 INPUT#8,I$(JB,1),I$(JB,2),I$(JB,3),I$(JB,4),I
      $(JB,5):PRINT " . ";:NEXT       :rem 204
2460 CLOSE8                           :rem 122
2470 GOSUB2480:RETURN                  :rem 53
2480 E=0:OPEN15,8,15:INPUT#15,E,E$    :rem 161
2490 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
      EXT                             :rem 198
2500 CLOSE15:RETURN                   :rem 189
2510 EF=0:L1=LEN(P$):FORL=1TOLL:T$=MID$(P$,L,1):AB
      =ASC(T$):IFAB=46THENNEXT        :rem 213
2520 IFAB<48ORAB>57THENL=L1:EF=1:GOSUB5000:PRINTF2
      $;"ERROR IN INPUT":SYS828      :rem 166
2530 GOSUB 5000:NEXT:RETURN           :rem 162
2540 POKE0,15:POKEBA,15:POKE646,11:TY=0 :rem 134
2550 PRINT "{CLR}":PRINT:PRINT "INCOME FOR ";YR$:IFY
      I=1THEN2790                     :rem 136
2560 GOSUB460:PRINT:PRINT "LOADING INCOME FOR:":M=1
                                           :rem 136
2570 F$="INCOME"+M$(M):PRINTM$(M),   :rem 176
2580 OPEN8,8,8,"0:"+F$+" ,S,R":INPUT#8,Y,MY,M,TA$,N
      $:JB=1:LL=0                     :rem 199
2590 INPUT#8,I$(JB,1),I$(JB,2),I$(JB,3),I$(JB,4),I
      $(JB,5):IFMY=<2THEN2650         :rem 250
2600 FORJD=2TOMY-1:INPUT#8,I1$,I2$,I3$,I4$,I5$:FOR
      JC=1TOJD                         :rem 193
2610 IFI$(JC,3)=I3$THENGOSUB2120:LL=LL+1:JC=JD:NEX
      T:GOTO2640                       :rem 160
2620 NEXT                             :rem 9
2630 JB=JB+1:I$(JB,1)=I1$:I$(JB,2)=I2$:I$(JB,3)=I3
      $:I$(JB,4)=I4$:I$(JB,5)=I5$    :rem 60
2640 NEXT:MY=MY-LL                   :rem 147
2650 CLOSE8:GOSUB2480:IFE>19THEN290  :rem 131
2660 OPEN15,8,15:FORM=2TO12:F$="INCOME"+M$(M):OPEN
      8,8,8,"0:"+F$+" ,S,R         :rem 126
2670 INPUT#8,Y,MA,M,TA$,N$:INPUT#15,E,E$:IFE>19THE
      NM=12:GOTO2730                  :rem 95

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```

2680 PRINTM$(M),:FORJB=1TOMA-1:INPUT#8,I1$,I2$,I3$
      ,I4$,I5$:FORJC=1TOMY-1                :rem 38
2690 IFI$(JC,3)=I3$THENGOSUB2120:JC=MY-1:NEXT:GOTO
      2720                                     :rem 26
2700 NEXT:I$(MY,1)=I1$:I$(MY,2)=I2$:I$(MY,3)=I3$
                                             :rem 144
2710 I$(MY,4)=I4$:I$(MY,5)=I5$:MY=MY+1      :rem 105
2720 NEXT                                     :rem 10
2730 CLOSE8:NEXT:CLOSE15:MA=MY:GOSUB2080:F$="INCOM
      E"+" "+YR$:OPEN15,8,15                  :rem 73
2740 PRINT#15,"S0:"+F$:CLOSE15:OPEN8,8,8,"0:"+F$+"
      ,S,W                                     :rem 229
2750 PRINT#8,YR","MY","TA$","N$CHR$(13):GOSUB2300
                                             :rem 227
2760 PRINT:PRINT"SAVING INCOME FOR YEAR FILE .":F
      ORKK=1TOMY-1:PRINT" .";                :rem 203
2770 PRINT#8,I$(KK,2)","I$(KK,3)","I$(KK,4)","I$(K
      K,5)CHR$(13):NEXT:CLOSE8:YI=1          :rem 99
2780 SYS828                                   :rem 114
2790 IFTY<>0THEN3190                          :rem 180
2800 POKEBO,5:POKEBA,5:POKE646,1:K=14:GOSUB2940:FO
      RJB=1TOMY-1                              :rem 16
2810 PRINTI$(JB,2)TAB(7)I$(JB,3)TAB(28)"$":PRINTT
      AB(39-LEN(I$(JB,5)))I$(JB,5)           :rem 75
2820 LL=LL+1:IFLL=KTHEN2840                  :rem 123
2830 NEXT:IFJB=>MYTHEN2870                   :rem 130
2840 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                             :rem 203
2850 GETA$:IFA$<>"C"THEN2850                  :rem 65
2860 GOSUB2940:GOTO2830                      :rem 95
2870 PRINTTAB(28)"[11 T]":PRINTTAB(20)L$(17)"
      {3 SPACES}$";                          :rem 82
2880 PRINTTAB(39-LEN(TA$))TA$                :rem 194
2890 PRINT"{2 DOWN}HARD COPY (Y/N) ?        :rem 100
2900 GETA$:IFA$=""THEN2900                  :rem 185
2910 IFA$="N"THEN2900                        :rem 89
2920 IFA$<>"Y"THEN2900                       :rem 210
2930 GOTO2970                                :rem 217
2940 PRINT"{CLR}":PN=130:LL=0:PRINTN$TAB(35)PN:PRI
      NNTAB(13)"INCOME FOR ";YR$            :rem 197
2950 PRINTTAB(13)"[15 T]":PRINT"TY"TAB(7)"FROM WHO
      M"TAB(33)"AMOUNT                       :rem 8
2960 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
                                             :rem 196
2970 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
      $;N$;LB$;PN;LF$;LF$                   :rem 235
2980 LB$=LEFT$(S$,34):PRINT#4,LB$;"INCOME FOR ";YR
      $;LF$                                   :rem 132
2990 PRINT#4,LB$;"[11 T]";LF$              :rem 7

```


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```
3000 PRINT#4,LA$;"TYPE{5 SPACES}FROM WHOM RECEIVED
";                                     :rem 54
3010 LB$=LEFT$(S$,27):PRINT#4,LB$;"AMOUNT";LF$
";                                     :rem 159
3020 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$;FORJB=1TOMY-1         :rem 64
3030 PRINT#4,LA$;I$(JB,2);"{8 SPACES}";I$(JB,3);
";                                     :rem 8
3040 LB$=LEFT$(S$,37-LEN(I$(JB,3))):PRINT#4,LB$;"$
";                                     :rem 67
3050 LB$=LEFT$(S$,13-LEN(I$(JB,5))):PRINT#4,LB$;I$
(JB,5);LF$;NEXT                       :rem 178
3060 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF$
";                                     :rem 210
3070 LB$=LEFT$(S$,48):PRINT#4,LB$;L$(17);"
{3 SPACES}$";                         :rem 166
3080 RA$=LEFT$(S$,13-LEN(TA$)):PRINT#4,RA$;TA$;LF$
";                                     :rem 98
3090 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$;:PR
INT#4,LB$;"DDDDDDDDDDDD"             :rem 216
3100 FORSP=1TO12:PRINT#4,LF$;NEXT:PRINT#4:CLOSE4:G
OTO290                                  :rem 75
3110 PRINT"{CLR}{2 DOWN}":PRINTTAB(8)"STANDARD TYP
ES OF INCOME":PRINT                   :rem 179
3120 PRINTTAB(10)"TYPE"TAB(18)"INCOME":PRINT:FORZ=
1TO9:IFIT$(Z)="THEN3140              :rem 43
3130 PRINTTAB(12)IT(Z)TAB(16)IT$(Z)   :rem 34
3140 NEXT:PRINT:PRINTTAB(11)"PRESS TYPE NUMBER
";                                     :rem 217
3150 GETA$:IFA$="THEN3150              :rem 181
3160 IFA$<"1"ORA$>"9"THEN3150        :rem 40
3170 TY=VAL(A$):FORZ1=1TO9:IFIT(Z1)=TYTHENZ2=Z1
";                                     :rem 243
3180 NEXT:PRINT"{CLR}":IFYI=0THEN2550 :rem 124
3190 POKEBO,5:POKEBA,5:POKE646,1:K=14:GOSUB3530:FO
RJB=1TOMY-1                             :rem 15
3200 IFVAL(I$(JB,2))<>TYTHEN3230      :rem 78
3210 PRINTI$(JB,2)TAB(7)I$(JB,3)TAB(28)"$";:PRINTT
AB(39-LEN(I$(JB,5)))I$(JB,5)           :rem 70
3220 LL=LL+1:IFLL=KTHEN3240           :rem 113
3230 NEXT:IFJB=>MYTHEN3270            :rem 120
3240 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
";                                     :rem 198
3250 GETA$:IFA$<>"C"THEN3250          :rem 55
3260 GOSUB3530:GOTO3230               :rem 81
3270 PRINTTAB(28)"[11 T]":TA=0:TL=0:TR=0:TY$="":FO
RJB=1TOMY-1                             :rem 12
3280 IFVAL(I$(J,2))<>TYTHEN3310      :rem 19
3290 P$=I$(J,5):PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$
):PR$=RIGHT$(P$,3)                    :rem 109
```

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FOURTEEN

```

3300 PR=VAL(PR$):TR=TR+PR:TL=TL+PL           :rem 173
3310 NEXT:TA=TL+TR:IFTA=0THENTY$="0.00":GOTO3330
                                           :rem 201
3320 TY$=STR$(TA+.001):TY$=LEFT$(TY$,LEN(TY$)-1)
                                           :rem 7
3330 PRINTTAB(20)L$(17)"{3 SPACES}$";         :rem 172
3340 PRINTTAB(39-LEN(TY$))TY$:PRINT"{DOWN}HARD COP
Y (Y/N) ?"                                     :rem 164
3350 GETA$:IFA$=" "THEN3350                   :rem 185
3360 IFA$="N"THEN290                           :rem 89
3370 IFA$<>"Y"THEN3350                         :rem 210
3380 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$                               :rem 246
3390 PRINT#4,LA$;IT$(Z2);LF$:LB$=LEFT$(S$,34):PRIN
T#4,LB$;"INCOME FOR ";YR$;LF$                 :rem 69
3400 PRINT#4,LB$;"[11 T]";LF$                 :rem 250
3410 PRINT#4,LA$;"TYPE{5 SPACES}FROM WHOM RECEIVED
";                                             :rem 59
3420 LB$=LEFT$(S$,27):PRINT#4,LB$;"AMOUNT";LF$
                                           :rem 164
3430 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$:FORJB=1TOMY-1                   :rem 69
3440 IFVAL(I$(JB,2))<>TYTHEN3480               :rem 91
3450 PRINT#4,LA$;I$(JB,2);"{8 SPACES}";I$(JB,3);
                                           :rem 14
3460 LB$=LEFT$(S$,37-LEN(I$(JB,3))):PRINT#4,LB$;"$
";                                             :rem 73
3470 LB$=LEFT$(S$,13-LEN(I$(JB,5))):PRINT#4,LB$;I$
(JB,5);LF$                                       :rem 63
3480 NEXT:LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF
$                                               :rem 81
3490 LB$=LEFT$(S$,48):PRINT#4,LB$;L$(17);"
{3 SPACES}$";                                   :rem 172
3500 RA$=LEFT$(S$,13-LEN(TY$)):PRINT#4,RA$;TY$;LF$
                                           :rem 143
3510 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$;:PR
INT#4,LB$;"DDDDDDDDDD"                         :rem 213
3520 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO290                                           :rem 81
3530 PRINT"{CLR}":PN=520+TY:LL=0:PRINTN$TAB(35)PN:
PRINT"{UP}"IT$(Z2):PRINT                       :rem 90
3540 PRINTTAB(13)"INCOME FOR ";YR$:PRINTTAB(13)"
[15 T]";                                         :rem 215
3550 PRINT"TY"TAB(7)"FROM WHOM"TAB(33)"AMOUNT"
                                           :rem 3
3560 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
                                           :rem 193
3570 POKEBO,14:POKEBA,6:POKE646,14           :rem 8
3580 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
DISK":PRINT                                       :rem 10

```

CHAPTER FOURTEEN

```
3590 PRINTTAB (18) "AND":PRINT:PRINTTAB (10) "INSERT P
    ROGRAM DISK":PRINT:PRINT "{ 4 DOWN}          :rem 109
3600 PRINTTAB (9) "PRESS 'C' TO CONTINUE          :rem 255
3610 GETA$:IFA$=" "THEN3610                      :rem 183
3620 IFA$<>"C"THEN3610                          :rem 185
3630 POKE631,83:POKE632,89:POKE633,83           :rem 105
3640 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
    OKE638,48:POKE639,13                          :rem 75
3650 POKE198,9:NEW                                :rem 40
5000 REM FORMAT                                    :rem 114
5010 PRINT F1$;ER1$;F2$;ER1$;F3$:RETURN        :rem 5
```

EXPENSE

Remember to use the name above for the program you place on the PAM master disk.

```
20 N=200:E1=0:E2=0:E3=0:E4=0:EE=0:YE=0:YR=0:AA=0:Y
    =0:M=0:MA=1:PN=0                               :rem 89
30 BO=53280:BA=53281:LL=0:PL=0:PR=0:JJ=0:LK=0:K=14
    :TE=0:TL=0:TR=0                               :rem 111
40 E=0:FE=0:MY=1:JB=0:LJ=0:MM=0                :rem 71
50 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
    =0                                              :rem 144
60 N$="":N1$="":N2$="":N3$="":N4$="":A$="":Z$="":F
    $="":P$="":PL$="                              :rem 221
70 PR$="":R$="":TE$="":YR$="":E1$="":E2$="":E3$="
    :E4$="":E5$="                                  :rem 114
75 F1$="{HOME}{15 DOWN}":ER1$="{43 SPACES}" :rem 65
77 F2$="{HOME}{13 DOWN}":F3$=F2$+ "{UP}"       :rem 43
80 E6$="":E$="":SM$="":RM$="":TM$="":UM$="":VM$="
    :WM$="":MM$="                                  :rem 6
90 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
    0):LB$="":RA$="                                :rem 32
100 DIML$(30),M$(12),NE$(60),DE$(25),OE$(15),CE$(4
    0)                                             :rem 51
110 DIMNE(60),DE(25),OE(15),CE(40):DIME$(200,6)
    :rem 197
120 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH"
    :M$(4)="APRIL                                :rem 82
130 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="A
    UGUST                                          :rem 60
140 M$(9)="SEPTEMBER":M$(10)="OCTOBER           :rem 130
150 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,15:
    POKEBA,15:POKE646,0                          :rem 31
160 PRINT "{CLR}{3 DOWN}":PRINTTAB (17) "EXPENSE":PRI
    NT:PRINT:FORD=1TO5000:NEXT                   :rem 35
170 POKEBO,14:POKEBA,6:POKE646,14              :rem 209
180 PRINT "{CLR}{6 DOWN}":PRINTTAB (10) "REMOVE PROGR
    AM DISK":PRINT                               :rem 207
```

```

190 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
    TA DISK":PRINT"{4 DOWN}                :rem 115
200 PRINTTAB(9)"PRESS 'C' TO CONTINUE      :rem 200
210 GETA$:IFAŞ<>"C"THEN210                 :rem 201
220 POKEBO,15:POKEBA,15:POKE646,0:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(17)"EXPENSE":PRINT:PRINT
                                                :rem 219
230 PRINT"LOADING PERSONAL DATA .";:FŞ="PERSDATA
                                                :rem 162
240 OPEN8,8,8,"0:"+FŞ+",S,R":INPUT#8,YR$,N$,N1$,N2
    $,N3$,N4$:PRINT" .";                   :rem 23
250 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT" .";:CLOSE
    8:GOSUB2800:IFE>19THEN170              :rem 110
260 FŞ="EXPDATA":OPEN8,8,8,"0:"+FŞ+",S,R":INPUT#8,
    E1,E2,E3,E4:PRINT" .";                 :rem 248
270 FORJ=1TO59:INPUT#8,NE$(J),NE(J):NEXT:PRINT" . "
    ;                                       :rem 51
280 FORJ=1TO25:INPUT#8,DE$(J),DE(J):NEXT  :rem 165
290 PRINT" .";:FORJ=1TO15:INPUT#8,OE$(J),OE(J):NEX
    T:PRINT" .";:FORJ=1TO39                :rem 139
300 INPUT#8,CE$(J),CE(J):NEXT:CLOSE8:GOSUB2800:IFE
    >19THEN170                               :rem 162
310 POKEBO,15:POKEBA,15:POKE646,0:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(17)"EXPENSE        :rem 43
320 PRINTTAB(9)"{DOWN}1. ENTER/CHANGE DATA":PRINTT
    AB(9)"{DOWN}2. VIEW EXPENSE FOR MONTH :rem 31
330 PRINTTAB(9)"{DOWN}3. VIEW EXPENSE FOR YEAR
                                                :rem 131
340 PRINTTAB(9)"{DOWN}4. VIEW EXPENSE BY TYPE":PRI
    NTTAB(9)"{DOWN}5. MAIN MENU           :rem 132
350 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER
                                                :rem 106
360 GETA$:IFAŞ=" "THEN360                 :rem 85
370 IFAŞ<"1"ORAŞ>"5"THEN360              :rem 196
380 AA=VAL(A$):ONAAGOTO390,1900,2860,3520,3990
                                                :rem 10
390 POKEBO,15:POKEBA,15:POKE646,0:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(11)"ENTER/CHANGE DATA
                                                :rem 130
400 PRINTTAB(11)"{DOWN}1. START NEW MONTH":PRINTTA
    B(11)"{DOWN}2. ADD NEW EXPENSE        :rem 12
410 PRINTTAB(11)"{DOWN}3. CORRECTIONS":PRINTTAB(11)
    )" {DOWN}4. DELETE                     :rem 70
420 PRINTTAB(11)"{DOWN}5. EXPENSE MENU":PRINTTAB(1
    0)" {4 DOWN}PRESS DESIRED NUMBER      :rem 190
430 GETA$:IFAŞ=" "THEN430                 :rem 81
440 IFAŞ<"1"ORAŞ>"5"THEN430              :rem 192
450 AA=VAL(A$):ONAAGOTO460,520,1330,1650,310
                                                :rem 139

```

CHAPTER
FOURTEEN

```
460 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:PR
INT"STARTING NEW MONTH :rem 100
470 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)";M:PRI
NT:MA=1 :rem 29
480 POKEBO,15:POKEBA,15:POKE646,0:GOSUB490:GOTO540
:rem 52
490 PRINT"CLEARING MEMORY . .";FORZ=1TON :rem 253
500 FORK=1TO6:E$(Z,K)="" :NEXT:PRINT" . .";:NEXT
:rem 186
510 PRINT:RETURN :rem 61
520 POKEBO,15:POKEBA,15:POKE646,0:PRINTTAB(13)"
{CLR}{2 DOWN}ADD NEW EXPENSE :rem 193
530 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)";M:GOS
UB2760:IFE>19THEN310 :rem 31
540 FORJ=MATON:PRINT"{CLR}{2 DOWN}ALWAYS USE STAND
ARD TYPE, TO WHOM :rem 127
550 PRINT"NAME, AND ACCOUNT NO. CODES.":PRINT:PRIN
T :rem 141
560 PRINTTAB(13)"{2 DOWN}ADD NEW EXPENSE" :rem 229
570 PRINT"{DOWN}ITEM NO. ";J:PRINT:PRINT:K=1:PRINTL
$(K); :rem 140
580 INPUT$(J,K):IFE$(J,K)=""THEN580 :rem 57
590 GOSUB1010:K=2:PRINT"IF DESIRED, PRESS 'T' (RET
URN){2 SPACES}FOR :rem 191
600 PRINT"LIST OF STANDARD TYPES :rem 252
610 PRINT:PRINTL$(K); :rem 50
620 INPUT$(J,K):IFE$(J,K)=""THEN620 :rem 47
630 IFE$(J,2)="T"THENGOSUB1050:GOTO610 :rem 222
640 IFE$(J,2)<"0"ORE$(J,2)>"4"THEN620 :rem 187
650 GOSUB1010:EE=VAL(E$(J,2)) :rem 116
660 K=6:PRINT"IF DESIRED, PRESS 'F' (RETURN) FOR
:rem 55
670 PRINT"LIST OF STANDARD ACCOUNT NUMBERS:rem 151
680 PRINT:PRINTL$(K); :rem 57
690 INPUT$(J,K):IFE$(J,K)=""THEN690 :rem 61
700 IFE$(J,6)="F"THENGOSUB1130:GOSUB1010:GOTO680
:rem 84
710 K=3:IFEE=1THEN920 :rem 222
720 IFEE=2THEN940 :rem 237
730 IFEE=3THEN960 :rem 241
740 IFEE=4THEN980 :rem 245
750 LL=LEN(E$(J,3)):IFLL=0THENGOSUB1000:GOTO590
:rem 83
760 IFLL>15THENE$(J,3)=LEFT$(E$(J,3),15) :rem 204
770 GOSUB1010:K=4:PRINT"CHECK NO. OR 'CAS' ";
:rem 11
780 INPUT$(J,K):IFE$(J,K)=""THEN780 :rem 61
790 IFLEN(E$(J,K))>3THENE$(J,K)=RIGHT$(E$(J,K),3)
:rem 255
800 GOSUB1010 :rem 218
```

CHAPTER
FOURTEEN

```

810 K=5:PRINTL$(K); :rem 100
820 INPUTE$(J,K):IFE$(J,K)=" "THEN820 :rem 51
830 P$=E$(J,K):GOSUB2830:IFE$=1THEN810 :rem 216
840 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=" "THEN860 :rem 233
850 PRINTF2$;"ERROR--AMOUNT NOT IN X.XX FORM":SYS8
28:FORD=1TO1000:NEXT :rem 122
855 GOSUB 5000:GOTO 810 :rem 243
860 MA=MA+1:PRINT "{CLR}{7 DOWN}":PRINTTAB(10)"ANOT
HER ITEM? (Y/N) :rem 128
870 GETA$:IFA$=" "THEN870 :rem 97
880 IFA$="N"THENJ=N:GOTO900 :rem 115
890 IFA$<>"Y"THEN870 :rem 122
900 NEXT:GOSUB2320:PRINT:GOSUB2510:PRINT:GOSUB2710
:IFE>19THEN390 :rem 110
910 GOTO1930 :rem 160
920 FORJE=1TO59:IFNE(JE)=VAL(E$(J,6))THENE$(J,3)=N
E$(JE) :rem 9
930 NEXT:GOTO750 :rem 234
940 FORJE=1TO25:IFDE(JE)=VAL(E$(J,6))THENE$(J,3)=D
E$(JE) :rem 240
950 NEXT:GOTO750 :rem 236
960 FORJE=1TO15:IFOE(JE)=VAL(E$(J,6))THENE$(J,3)=O
E$(JE) :rem 7
970 NEXT:GOTO750 :rem 238
980 FORJE=1TO39:IFCE(JE)=VAL(E$(J,6))THENE$(J,3)=C
E$(JE) :rem 247
990 NEXT:GOTO750 :rem 240
1000 PRINT"WRONG COMBINATION":SYS828:FORD=1TO1000:
NEXT:RETURN :rem 247
1010 PRINT "{CLR}{2 DOWN}ALWAYS USE STANDARD TYPE,
{SPACE}TO WHOM :rem 129
1020 PRINT"NAME, AND ACCOUNT NO. CODES.":PRINT:PRI
NT :rem 182
1030 PRINTTAB(13)"{2 DOWN}ADD NEW EXPENSE" :rem 14
1040 PRINT "{DOWN}ITEM NO. ";J:PRINT:PRINT:RETURN
:rem 206
1050 PRINT "{CLR}{2 DOWN}":PRINTTAB(8)"STANDARD TYP
ES OF EXPENSE":PRINT :rem 17
1060 PRINTTAB(8)"TYPE"TAB(16)"EXPENSE":PRINT
:rem 236
1070 PRINTTAB(10)"1"TAB(14)"NOT INCOME TAX DEDUCTI
BLE :rem 112
1080 PRINTTAB(10)"2"TAB(14)"INCOME TAX DEDUCTIBLE"
:PRINTTAB(10)"3"TAB(14)"OTHER :rem 155
1090 PRINTTAB(10)"4"TAB(14)"CREDITORS":PRINT:PRINT
:rem 102
1100 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 26
1110 GETA$:IFA$<>"C"THEN1110 :rem 41
1120 GOSUB1010:RETURN :rem 32

```

CHAPTER
FOURTEEN

```

1130 PRINT "{CLR}{3 DOWN}":PRINTTAB(8)"STANDARD ACC
      OUNT NUMBERS":PRINT:LL=0 :rem 71
1140 PRINTTAB(8)"ACT"TAB(13)"EXPENSE":PRINT:IFEE=2
      THEN1200 :rem 50
1150 IFEE=3THEN1230 :rem 69
1160 IFEE=4THEN1260 :rem 74
1170 PRINTTAB(10)"1."TAB(13)L$(25):LL=LL+1:FOREX=1
      TO59:IFNE$(EX)=" "THEN1190 :rem 95
1180 PRINTTAB(8)NE(EX)TAB(13)NE$(EX):LL=LL+1:IFLL=
      >14THENGOSUB1290 :rem 40
1190 NEXT:IFEX=60THEN1290 :rem 14
1200 PRINTTAB(10)"2."TAB(13)L$(26):LL=LL+1:FOREX=1
      TO25:IFDE$(EX)=" "THEN1220 :rem 68
1210 PRINTTAB(8)DE(EX)TAB(13)DE$(EX):LL=LL+1:IFLL=
      >14THENGOSUB1290 :rem 14
1220 NEXT:IFEX=26THEN1290 :rem 10
1230 PRINTTAB(10)"3."TAB(13)L$(27):LL=LL+1:FOREX=1
      TO15:IFOE$(EX)=" "THEN1250 :rem 86
1240 PRINTTAB(8)OE(EX)TAB(13)OE$(EX):LL=LL+1:IFLL=
      >14THENGOSUB1290 :rem 39
1250 NEXT:IFEX=16THEN1290 :rem 12
1260 PRINTTAB(10)"4."TAB(13)L$(28):LL=LL+1:FOREX=1
      TO39:IFCE$(EX)=" "THEN1280 :rem 88
1270 PRINTTAB(7)CE(EX)TAB(13)CE$(EX):LL=LL+1:IFLL=
      >14THENGOSUB1290 :rem 17
1280 NEXT :rem 10
1290 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 201
1300 GETA$:IFA$<>"C"THEN1300 :rem 43
1310 PRINT "{CLR}{3 DOWN}":PRINTTAB(8)"STANDARD ACC
      OUNT NUMBERS":PRINT:LL=0 :rem 71
1320 PRINTTAB(8)"ACT"TAB(13)"EXPENSE":PRINT:RETURN
      :GOSUB1010:RETURN :rem 46
1330 PRINT "{CLR}":POKEBO,10:POKEBA,10:POKE646,1:PR
      INTTAB(15)"{DOWN}CORRECTIONS":PRINT :rem 77
1340 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
      T"OF REPORT DESIRED";M :rem 201
1350 GOSUB2760:IFE>19THEN310 :rem 145
1360 LL=0:K=14:PRINT "{CLR}":PRINTTAB(15)"{DOWN}COR
      RECTIONS":PRINT :rem 80
1370 PRINT"ITEM NO."TAB(10)L$(18)TAB(33)L$(5):PRIN
      T :rem 148
1380 FORJ=1TOMA-1:PRINTTAB(3)JTAB(10)E$(J,3);
      :rem 141
1390 PRINTTAB(39-LEN(E$(J,5)))E$(J,5):LL=LL+1:IFLL
      =>KTHEN1410 :rem 52
1400 NEXT:IFJ=>MATHEN1450 :rem 25
1410 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 195
1420 GETA$:IFA$<>"C"THEN1420 :rem 49

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1430 LL=0:PRINT "{CLR}":PRINTTAB(15)" {DOWN}CORRECT I
      ONS":PRINT                                     :rem 39
1440 PRINT"ITEM NO."TAB(10)L$(18)TAB(33)L$(5):PRIN
      T:GOTO1400                                     :rem 202
1450 PRINT                                           :rem 87
1460 PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO CORRECT"
      ;A$                                           :rem 136
1470 JJ=VAL(A$):IFJJ<=0ORJJ>MA-1THEN1460           :rem 149
1480 PRINT"{CLR}":PRINT"CORRECT ITEM ";A$:PRINT
      :rem 228
1490 PRINT"PRESS RETURN IF NO CHANGE:":PRINT
      :rem 223
1500 PRINTL$(1);:PRINTTAB(16)E$(JJ,1);:INPUTE$(JJ,
      1)                                           :rem 49
1510 PRINTL$(2);:PRINTTAB(16)E$(JJ,2);:INPUTE$(JJ,
      2)                                           :rem 53
1520 PRINTL$(6);:PRINTTAB(16)E$(JJ,6);:INPUTE$(JJ,
      6)                                           :rem 66
1530 PRINTL$(18);:PRINTTAB(16)E$(JJ,3);:INPUTE$(JJ
      ,3):LL=LEN(E$(JJ,3))                         :rem 92
1540 IFLL>15THENE$(JJ,3)=LEFT$(E$(JJ,3),15)
      :rem 141
1550 PRINTL$(19);:PRINTTAB(16)E$(JJ,4);:INPUTE$(JJ
      ,4)                                           :rem 117
1560 PRINTF2$;L$(5);:PRINTTAB(16)E$(JJ,5);:EE$=E$(
      JJ,5):INPUTE$(JJ,5)                         :rem 238
1570 P$=E$(JJ,5):GOSUB2830:IFEFE=1THENE$(JJ,5)=EE$:
      GOTO 1560                                     :rem 126
1580 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN1600
      :rem 68
1590 PRINTF2$;"ERROR--AMOUNT NOT IN X.XX FORM":SYS
      828:FORD=1TO1000:NEXT                       :rem 172
1595 E$(JJ,5)=EE$:GOSUB 5000:GOTO 1560           :rem 44
1600 PRINT"{CLR}{7 DOWN}":PRINTTAB(10)"ANOTHER ITE
      M? (Y/N)"                                     :rem 186
1610 GETA$:IFA$=" "THEN1610                         :rem 179
1620 IFA$="Y"THEN1360                               :rem 144
1630 IFA$<>"N"THEN1610                             :rem 193
1640 GOSUB2320:PRINT:GOSUB2510:PRINT:GOSUB2710:GOT
      O390                                           :rem 181
1650 PRINT"{CLR}":POKEBO,2:POKEBA,2:POKE646,1:PRIN
      TTAB(15)" {DOWN}DELETIONS":FE=1:PRINT :rem 131
1660 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
      T"OF REPORT DESIRED";M                       :rem 206
1670 GOSUB2760:IFE>19THEN310                       :rem 150
1680 LL=0:K=14:PRINT"{CLR}":PRINTTAB(16)" {DOWN}DEL
      ETIONS":PRINT                                 :rem 178
1690 PRINT"ITEM NO."TAB(10)L$(18)TAB(33)L$(5):PRIN
      T                                             :rem 153

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1700 FORJ=1TOMA-1:PRINTTAB(3)JTAB(10)E$(J,3);
                                     :rem 137
1710 PRINTTAB(39-LEN(E$(J,5)))E$(J,5):LL=LL+1:IFLL
=>KTHEN1730
                                     :rem 53
1720 NEXT:IFJ=>MATHEN1770
                                     :rem 35
1730 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                     :rem 200
1740 GETA$:IFAS<>"C"THEN1740
                                     :rem 59
1750 LL=0:PRINT"{CLR}":PRINTTAB(15)"{DOWN}DELETION
S":PRINT
                                     :rem 136
1760 PRINT"ITEM NO."TAB(10)L$(18)TAB(33)L$(5):PRIN
T:GOTO1720
                                     :rem 212
1770 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY
{SPACE}TO EXIT
                                     :rem 186
1780 GETA$:IFAS=" "THEN1780
                                     :rem 195
1790 IFAS<>"C"THEN390
                                     :rem 145
1800 PRINT
                                     :rem 86
1810 PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO DELETE";
A$
                                     :rem 40
1820 JJ=VAL(A$):IFJJ<=0ORJJ>MA-1THEN1810
                                     :rem 147
1830 PRINT"{CLR}":PRINT"DELETE ITEM ";A$:PRINT:E$(
JJ,1)="99":E$(JJ,2)="0
                                     :rem 209
1835 PRINT F1$;"{3 DOWN}{7 SPACES}PRESS ANY KEY TO
CONTINUE"
                                     :rem 17
1836 GETR$:IF R$="" THEN 1836
                                     :rem 233
1840 E$(JJ,3)="ZZZZZZZZZZZZZZZZ":E$(JJ,4)="0":E$(JJ
,5)="0.00
                                     :rem 224
1850 E$(JJ,6)="0":PRINT"{CLR}{7 DOWN}":PRINTTAB(10
)"ANOTHER ITEM? (Y/N)
                                     :rem 92
1860 GETA$:IFAS=" "THEN1860
                                     :rem 193
1870 IFAS="Y"THENFE=FE+1:GOTO1680
                                     :rem 190
1880 IFAS<>"N"THEN1860
                                     :rem 207
1890 GOSUB2320:PRINT:GOSUB2510:PRINT:MA=MA-FE:GOSU
B2710:GOTO390
                                     :rem 7
1900 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11
                                     :rem 207
1910 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
T"OF REPORT DESIRED";M
                                     :rem 204
1920 GOSUB490:YE=0:GOSUB2760:IFE>19THEN310
                                     :rem 48
1930 POKEBO,15:POKEBA,15:POKE646,0:K=14:GOSUB2090:
FORJ=1TOMA-1
                                     :rem 22
1940 LK=LEN(E$(J,3)):IFLK>15THENE$(J,3)=LEFT$(E$(J
,3),15)
                                     :rem 157
1950 IFM>9THENZ$=STR$(M):PRINTMID$(Z$,2)SPC(1)E$(J
,1);:GOTO1970
                                     :rem 1
1960 PRINTM;E$(J,1);
                                     :rem 129
1970 PRINTTAB(6)E$(J,2)TAB(8)E$(J,6)TAB(12)E$(J,3)
TAB(27)E$(J,4)TAB(31)"$";
                                     :rem 246
1980 PRINTTAB(39-LEN(E$(J,5)))E$(J,5):LL=LL+1:IFLL
=>KTHEN2000
                                     :rem 53

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1990 NEXT:IFJ=>MATHEN2030 :rem 34
2000 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 191
2010 GETA$:IFA$<>"C"THEN2010 :rem 41
2020 GOSUB2090:GOTO1990 :rem 85
2030 PRINTTAB(31)"[8 T]":PRINTTAB(21)L$(17)"
{3 SPACES}$";:PRINTTAB(39-LEN(TE$))TES$
:rem 138
2040 PRINT"{2 DOWN}HARD COPY (Y/N) ? :rem 87
2050 GETA$:IFA$=" "THEN2050 :rem 177
2060 IFA$="N"THEN310 :rem 78
2070 IFA$<>"Y"THEN2050 :rem 202
2080 GOTO2130 :rem 201
2090 PN=203+10*M:LL=0:PRINT"{CLR}":PRINTN$TAB(35)P
N:PRINT"{UP}"M$(M)+" "+YR$ :rem 150
2100 PRINTTAB(17)"EXPENSE":PRINTTAB(17)"[7 T]
:rem 42
2110 PRINT"DATE"TAB(5)"TY"TAB(8)"ACT"TAB(12)"TO WH
OM"TAB(27)"CHE"TAB(33)"AMOUNT :rem 83
2120 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
:rem 184
2130 OPEN4,4,1:PN=203+10*M:LB$=LEFT$(S$,56-LEN(N$)
):PRINT#4,LA$;N$;LB$;PN;LF$ :rem 155
2140 PRINT#4,LA$;M$(M)+" "+YR$;LF$;LF$ :rem 29
2150 LB$=LEFT$(S$,37):PRINT#4,LB$;"EXPENSE";LF$:PR
INT#4,LB$;"[5 T]";LF$ :rem 131
2160 PRINT#4,LA$;"DATE{3 SPACES}TY{3 SPACES}ACT
{3 SPACES}TO WHOM{14 SPACES}CHE"; :rem 149
2170 LB$=LEFT$(S$,12):PRINT#4,LB$;"AMOUNT";LF$
:rem 159
2180 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$:FORJ=1TOMA-1 :rem 236
2190 GOSUB2300:PRINT#4,RA$;M;E$(J,1);"{3 SPACES}";
E$(J,2); :rem 141
2200 RA$=LEFT$(S$,6-LEN(E$(J,6))):PRINT#4,RA$;E$(J
,6); :rem 209
2210 LB$=LEFT$(S$,3):PRINT#4,LB$;E$(J,3); :rem 255
2220 RA$=LEFT$(S$,24-LEN(E$(J,3))-LEN(E$(J,4))):PR
INT#4,RA$;E$(J,4); :rem 191
2230 LB$=LEFT$(S$,4):PRINT#4,LB$;"$"; :rem 7
2240 RA$=LEFT$(S$,13-LEN(E$(J,5))):PRINT#4,RA$;E$(
J,5);LF$:NEXT:IFJ=MATHEN2250 :rem 6
2250 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF$
:rem 210
2260 LB$=LEFT$(S$,47):PRINT#4,LB$;L$(17);"
{4 SPACES}$"; :rem 165
2270 RA$=LEFT$(S$,13-LEN(TE$)):PRINT#4,RA$;TE$;LF$
:rem 106
2280 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$;:PR
INT#4,LB$;"DDDDDDDDDD" :rem 216

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2290 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO310 :rem 77
2300 MM$=STR$(M):IFLEFT$(MM$,1)=" "THENMM$=MID$(MM
$,2) :rem 21
2310 RA$=LEFT$(S$,11-LEN(MM$)):RETURN :rem 148
2320 PRINT"{3 DOWN}SUMMING . .";:TE=0:TL=0:TR=0:TE
$="" :FORJ=1TOMA-1:PRINT" ."; :rem 170
2330 P$=E$(J,5):GOSUB2360:TR=TR+PR:TL=TL+PL:NEXT
:rem 234
2340 TE=TL+TR:IFTE=0THENTE$="0.00":RETURN :rem 36
2350 TE$=STR$(TE+.001):TE$=LEFT$(TE$,LEN(TE$)-1):R
ETURN :rem 215
2360 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$) :rem 19
2370 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
-1 :rem 177
2380 RETURN :rem 173
2390 TE=0:TL=0:TR=0:TY$="" :FORJ=1TOMY-1:IFVAL(E$(J
,2))<>TYTHEN2410 :rem 240
2400 P$=E$(J,5):GOSUB2360:TR=TR+PR:TL=TL+PL
:rem 111
2410 NEXT:TE=TL+TR:IFTE=0THENTY$="0.00":RETURN
:rem 175
2420 TY$=STR$(TE+.001):TY$=LEFT$(TY$,LEN(TY$)-1):R
ETURN :rem 37
2430 TE=0:TL=0:TR=0:TE$="" :FORJ=1TOMY-1:P$=E$(J,5)
:GOSUB2360 :rem 48
2440 TL=TL+PL:TR=TR+PR:NEXT:TE=TL+TR:IFTE=0THENTE$
="0.00":RETURN :rem 172
2450 TE$=STR$(TE+.001):TE$=LEFT$(TE$,LEN(TE$)-1):R
ETURN :rem 216
2460 TE=0:TL=0:TR=0:P$=E$(JC,5):GOSUB2360:TL=PL-1:
TR=PR+1:P$=E5$ :rem 51
2470 GOSUB2360:TL=TL+PL:TR=TR+PR:TE=TL+TR:IFTE=0TH
ENE$(JC,5)="0.00":RETURN :rem 166
2480 IFTE<0THENE$(JC,5)=STR$(TE-.001) :rem 105
2490 IFTE>0THENE$(JC,5)=STR$(TE+.001) :rem 106
2500 E$(JC,5)=LEFT$(E$(JC,5),LEN(E$(JC,5))-1):RETU
RN :rem 112
2510 IFMA=<2THEN2610 :rem 136
2520 PRINT"NOW SORTING . .";:FORJJ=1TOMA-2:FORKK=J
J+1TOMA-1 :rem 113
2530 IFE$(KK,1)>E$(JJ,1)THEN2600 :rem 230
2540 SM$=E$(KK,1):RM$=E$(KK,2):TM$=E$(KK,3):rem 76
2550 UM$=E$(KK,4):VM$=E$(KK,5):WM$=E$(KK,6):rem 95
2560 E$(KK,1)=E$(JJ,1):E$(KK,2)=E$(JJ,2):E$(KK,3)=
E$(JJ,3) :rem 6
2570 E$(KK,4)=E$(JJ,4):E$(KK,5)=E$(JJ,5):E$(KK,6)=
E$(JJ,6) :rem 25
2580 E$(JJ,1)=SM$:E$(JJ,2)=RM$:E$(JJ,3)=TM$:rem 74
2590 E$(JJ,4)=UM$:E$(JJ,5)=VM$:E$(JJ,6)=WM$:rem 93

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2600 NEXT:PRINT " .";:NEXT           :rem 244
2610 RETURN                          :rem 169
2620 IFMY=2THEN2700                  :rem 102
2630 FORJJ=1TOMY-2:PRINT " .";:FORKK=JJ+1TOMY-1:IFE
    $(KK,3)>E$(JJ,3)THEN2690          :rem 190
2640 SM$=E$(KK,3):RM$=E$(KK,4):TM$=E$(KK,5):UM$=E$
    (KK,6):VM$=E$(KK,2)              :rem 46
2650 E$(KK,3)=E$(JJ,3):E$(KK,4)=E$(JJ,4):E$(KK,5)=
    E$(JJ,5)                          :rem 18
2660 E$(KK,6)=E$(JJ,6):E$(KK,2)=E$(JJ,2) :rem 62
2670 E$(JJ,3)=SM$:E$(JJ,4)=RM$:E$(JJ,5)=TM$:rem 80
2680 E$(JJ,6)=UM$:E$(JJ,2)=VM$      :rem 109
2690 NEXT:NEXT                      :rem 137
2700 RETURN                          :rem 169
2710 PRINT "I'M SAVING{2 SPACES}. .";:F$="EXPENSE"+
    M$(M):OPEN15,8,15:PRINT#15,"S0:"+F$ :rem 8
2720 CLOSE15:OPEN8,8,8,"0:"+F$+" ,S,W":PRINT#8,Y", "
    MA", "M", "TE$", "N$CHR$(13)      :rem 26
2730 FORJB=1TOMA-1:FORKB=1TO6:PRINT#8,E$(JB,KB)", "
    :NEXT:PRINT " .";:NEXT           :rem 84
2740 CLOSE8:YE=0:GOSUB2800          :rem 68
2750 RETURN                          :rem 174
2760 PRINT:PRINT "LOADING .";:F$="EXPENSE"+M$(M):OP
    EN8,8,8,"0:"+F$+" ,S,R          :rem 106
2770 INPUT#8,Y,MA,M,TE$,N$:FORJB=1TOMA-1:FORKB=1TO
    6:INPUT#8,E$(JB,KB):NEXT         :rem 98
2780 PRINT " .";:NEXT               :rem 132
2790 CLOSE8:GOSUB2800:RETURN        :rem 30
2800 E=0:OPEN15,8,15:INPUT#15,E,E$  :rem 157
2810 IFE>19THENPRINT:PRINTES:SYS828:FORD=1TO5000:N
    EXT                               :rem 194
2820 CLOSE15:RETURN                 :rem 194
2830 EF=0:L1=LEN(P$):FORL=1TOL1:T$=MID$(P$,L,1):AB
    =ASC(T$):IFAB=46THENNEXT         :rem 218
2840 IFAB<48ORAB>57THENL=L1:EF=1:GOSUB 5000:PRINTF
    2$;"ERROR IN INPUT":SYS828      :rem 171
2850 GOSUB 5000:NEXT:RETURN         :rem 167
2860 POKEBO,15:POKEBA,15:POKE646,11:TY=0 :rem 139
2870 PRINT"{ CLR}":PRINT:PRINT "EXPENSE FOR " ,YR$:YR
    =VAL(YR$):IFYE=1THEN3140        :rem 1
2880 GOSUB490:PRINT:PRINT "LOADING EXPENSE FOR:" :M=
    1                                  :rem 237
2890 F$="EXPENSE"+M$(M):PRINTM$(M),:OPEN8,8,8,"0:"
    +F$+" ,S,R                      :rem 55
2900 INPUT#8,Y,MY,M,TE$,N$:JB=1:LJ=0:FORJE=1TO6:IN
    PUT#8,E$(JB,JE):NEXT            :rem 64
2910 IFMY=<2THEN2990                :rem 175
2920 FORJD=2TOMY-1                  :rem 88
2930 R$=CHR$(13):INPUT#8,E1$,R$,E2$,R$,E3$,R$,E4$,
    R$,E5$,R$,E6$,R$                :rem 219

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2940 FORJC=1TOJD:IFE$(JC,6)=E6$THENGOSUB2460:LJ=LJ
+1:JC=JD:NEXT:GOTO2980 :rem 251
2950 NEXT :rem 15
2960 JB=JB+1:E$(JB,1)=E1$:E$(JB,2)=E2$:E$(JB,3)=E3
$:E$(JB,4)=E4$:E$(JB,5)=E5$ :rem 26
2970 E$(JB,6)=E6$ :rem 86
2980 NEXT:MY=MY-LJ :rem 152
2990 CLOSE8:GOSUB2800:IFE>19THEN310 :rem 127
3000 OPEN15,8,15:FORM=2TO12:F$="EXPENSE"+M$(M):OPE
N8,8,8,"0":"+F$+",S,R :rem 208
3010 INPUT#8,Y,MA,M,TE$,N$:INPUT#15,E,E$:IFE>19THE
NM=12:GOTO3080 :rem 87
3020 PRINTM$(M),:FORJB=1TOMA-1 :rem 55
3030 R$=CHR$(13):INPUT#8,E1$,R$,E2$,R$,E3$,R$,E4$,
R$,E5$,R$,E6$,R$ :rem 211
3040 FORJC=1TOMY-1:IFE$(JC,6)=E6$THENGOSUB2460:JC=
MY-1:NEXT:GOTO3070 :rem 215
3050 NEXT:E$(MY,1)=E1$:E$(MY,2)=E2$:E$(MY,3)=E3$
:rem 119
3060 E$(MY,4)=E4$:E$(MY,5)=E5$:E$(MY,6)=E6$:MY=MY+
1 :rem 48
3070 NEXT :rem 9
3080 CLOSE8:NEXT:CLOSE15:GOSUB2430:PRINT:PRINT"
{DOWN}SAVING ."; :rem 159
3090 F$="EXPENSE"+" "+YR$:OPEN15,8,15 :rem 0
3100 PRINT#15,"S0":"+F$:CLOSE15:OPEN8,8,8,"0":"+F$+"
,S,W :rem 220
3110 PRINT#8,YR","MY","TE$","N$CHR$(13):GOSUB2620:
FORKK=1TOMY-1 :rem 175
3120 PRINT#8,E$(KK,2)","E$(KK,3)","E$(KK,4)","E$(K
K,5)","E$(KK,6)CHR$(13) :rem 192
3130 NEXT:CLOSE8:YE=1:SYS828 :rem 15
3140 IFTY<>0THEN3600 :rem 166
3150 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,0:PR
INTN$;:PN=150 :rem 187
3160 PRINTTAB(35)PN:PRINT :rem 76
3170 PRINTTAB(11)"EXPENSE FOR ";YR$:PRINTTAB(11)"
[16 T] :rem 210
3180 PRINT"ACT"TAB(5)"TO WHOM PAID"TAB(23)TAB(33)"
AMOUNT" :rem 69
3190 FORL=1TO39:PRINT"[T]";:NEXT:PRINT :rem 166
3200 LL=0:K=14:FORJB=1TOMY-1 :rem 179
3210 LK=LEN(E$(JB,3)):IFLK>15THENE$(JB,3)=LEFT$(E$
(JB,3),15) :rem 91
3220 PRINT$(JB,6)TAB(5)E$(JB,3)TAB(28)"$";:PRINTT
AB(39-LEN(E$(JB,5)))E$(JB,5) :rem 57
3230 LL=LL+1:IFLL=>KTHEN3250 :rem 177
3240 NEXT:IFJB=MYTHEN3320 :rem 55
3250 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 199

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3260 GETA$: IFAŞ<>"C" THEN 3260 : rem 57
3270 LL=0: PRINT "{CLR}": PRINTN$: PRINT: PRINTTAB(11)"
    EXPENSE FOR "; YRŞ : rem 13
3280 PRINTTAB(11)" [16 T]" : rem 122
3290 PRINT "ACT" TAB(5) "TO WHOM PAID" TAB(23) TAB(33)"
    AMOUNT" : rem 71
3300 FORL=1 TO 39: PRINT "[T]"; : NEXT: PRINT : rem 159
3310 GOTO 3240 : rem 201
3320 PRINTTAB(28)" [11 T]": PRINTTAB(20) L$(17)"
    {2 SPACES}$"; : rem 73
3330 PRINTTAB(39-LEN(TEŞ)) TEŞ : rem 193
3340 PRINT "{DOWN} HARD COPY (Y/N) ? : rem 74
3350 GETA$: IFAŞ=" THEN 3350 : rem 185
3360 IFAŞ="N" THEN 310 : rem 82
3370 IFAŞ<>"Y" THEN 3350 : rem 210
3380 OPEN 4, 4, 1: PN=150: LBŞ=LEFT$(S$, 56-LEN(N$)): PRI
    NT#4, LAŞ; NŞ; LBŞ; PN; LFŞ; LFŞ : rem 146
3390 LBŞ=LEFT$(S$, 34): PRINT#4, LBŞ; "EXPENSE FOR "; Y
    RŞ; LFŞ : rem 221
3400 PRINT#4, LBŞ; " [12 T]"; LFŞ: PRINT#4, LAŞ; "ACT
    {5 SPACES} TO WHOM PAID"; : rem 38
3410 LBŞ=LEFT$(S$, 24): PRINT#4, LBŞ; "{10 SPACES} AMOU
    NT"; LFŞ : rem 160
3420 PRINT#4, LAŞ; : FORL=1 TO 45: PRINT#4, "[T]"; : NEXT: P
    RINT#4, LFŞ; LFŞ: FORJB=1 TO MY-1 : rem 68
3430 RAŞ=LEFT$(S$, 13-LEN(EŞ(JB, 6))): PRINT#4, RAŞ; EŞ
    (JB, 6); : rem 137
3440 LBŞ=LEFT$(S$, 5): PRINT#4, LBŞ; EŞ(JB, 3); : rem 73
3450 RAŞ=LEFT$(S$, 38-LEN(EŞ(JB, 3))): PRINT#4, RAŞ; "$
    "; : rem 79
3460 LBŞ=LEFT$(S$, 13-LEN(EŞ(JB, 5))): PRINT#4, LBŞ; EŞ
    (JB, 5); LFŞ: NEXT : rem 175
3470 LBŞ=LEFT$(S$, 55): PRINT#4, LBŞ; " [11 T]"; LFŞ
    : rem 215
3480 LBŞ=LEFT$(S$, 48): PRINT#4, LBŞ; L$(17); "
    {3 SPACES}$"; : rem 171
3490 RAŞ=LEFT$(S$, 13-LEN(TEŞ)): PRINT#4, RAŞ; TEŞ; LFŞ
    : rem 111
3500 LBŞ=LEFT$(S$, 55): PRINT#4, LBŞ; " [11 T]"; CRŞ; PR
    INT#4, LBŞ; "DDDDDDDDDD" : rem 212
3510 FORSP=1 TO 12: PRINT#4, LFŞ: NEXT: PRINT#4: CLOSE 4: G
    OTO 310 : rem 73
3520 PRINT "{CLR} {3 DOWN}": PRINTTAB(8) "STANDARD TYP
    ES OF EXPENSE": PRINT : rem 38
3530 PRINTTAB(10) "TYPE" TAB(18) "EXPENSE": PRINT
    : rem 27
3540 PRINTTAB(12) "1" TAB(16) "NON-DEDUCTIBLE": rem 25
3550 PRINTTAB(12) "{DOWN} 2" TAB(16) "DEDUCTIBLE": PRIN
    TTAB(12) "{DOWN} 3" TAB(16) "OTHER : rem 33

```

CHAPTER
FOURTEEN

```

3560 PRINTTAB(12)"{DOWN}4"TAB(16)"CREDITORS":PRINT
      :PRINTTAB(11)"{2 DOWN}PRESS TYPE NUMBER
                                          :rem 229
3570 GETA$:IFA$=" "THEN3570
                                          :rem 193
3580 IFA$<"1"ORAS$>"4"THEN3570
                                          :rem 47
3590 TY=VAL(A$):PRINT"{CLR}":IFYE=0THEN2870
                                          :rem 198
3600 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,0:PN
      =530+TY*2:PRINTN$TAB(35)PN
                                          :rem 228
3610 PRINT"{UP}"L$(TY+24):PRINT:PRINTTAB(11)"EXPEN
      SE FOR ";YR$
                                          :rem 144
3620 PRINTTAB(11)"[16 T]"
                                          :rem 52
3630 PRINT"ACT"TAB(5)"TO WHOM PAID"TAB(23)TAB(33)"
      AMOUNT"
                                          :rem 69
3640 FORL=1TO39:PRINT"[T]";:NEXT:PRINT
                                          :rem 166
3650 LL=0:K=14:FORJB=1TOMY-1:IFVAL(E$(JB,2))<>TYTH
      EN3690
                                          :rem 133
3660 LK=LEN(E$(JB,3)):IFLK>15THENE$(JB,3)=LEFT$(E$
      (JB,3),15)
                                          :rem 100
3670 PRINT$(JB,6)TAB(5)E$(JB,3)TAB(28)"$";:PRINTT
      AB(39-LEN(E$(JB,5)))E$(JB,5)
                                          :rem 66
3680 LL=LL+1:IFLL=>KTHEN3700
                                          :rem 186
3690 NEXT:IFJB=MYTHEN3770
                                          :rem 73
3700 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                          :rem 199
3710 GETA$:IFA$<>"C"THEN3710
                                          :rem 57
3720 LL=0:PRINT"{CLR}":PRINTN$;:PN=530+TY*2:PRINTT
      AB(35)PN:PRINT"{UP}"L$(TY+24):PRINT
                                          :rem 27
3730 PRINTTAB(11)"EXPENSE FOR ";YR$:PRINTTAB(11)"
      [16 T]"
                                          :rem 212
3740 PRINT"ACT"TAB(5)"TO WHOM PAID"TAB(23)TAB(33)"
      AMOUNT"
                                          :rem 71
3750 FORL=1TO39:PRINT"[T]";:NEXT:PRINT
                                          :rem 168
3760 GOTO3690
                                          :rem 219
3770 PRINTTAB(28)"[11 T]":GOSUB2390:PRINTTAB(20)L$
      (17)"{2 SPACES}$";
                                          :rem 218
3780 PRINTTAB(39-LEN(TY$))TY$
                                          :rem 242
3790 PRINT"{DOWN}HARD COPY (Y/N) ?
                                          :rem 83
3800 GETA$:IFA$=" "THEN3800
                                          :rem 185
3810 IFA$="N"THEN310
                                          :rem 82
3820 IFA$<>"Y"THEN3800
                                          :rem 210
3830 OPEN4,4,1:PN=530+TY*2:LB$=LEFT$(S$,56-LEN(N$)
      ):PRINT#4,LA$;N$;LB$;PN;LF$
                                          :rem 215
3840 PRINT#4,LA$;L$(TY+24);LF$;LF$
                                          :rem 172
3850 LB$=LEFT$(S$,34):PRINT#4,LB$;"EXPENSE FOR ";Y
      R$;LF$
                                          :rem 222
3860 PRINT#4,LB$;"[12 T]";LF$:PRINT#4,LA$;"ACT
      {5 SPACES}TO WHOM PAID";
                                          :rem 48
3870 LB$=LEFT$(S$,24):PRINT#4,LB$;"{10 SPACES}AMOU
      NT";LF$
                                          :rem 170

```

```

3880 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$:FORJB=1TOMY-1           :rem 78
3890 IFVAL(E$(JB,2))<>TYTHEN3940         :rem 97
3900 RA$=LEFT$(S$,13-LEN(E$(JB,6))):PRINT#4,RA$;E$
(JB,6);                                   :rem 139
3910 LB$=LEFT$(S$,5):PRINT#4,LB$;E$(JB,3); :rem 75
3920 RA$=LEFT$(S$,38-LEN(E$(JB,3))):PRINT#4,RA$;"$
";                                       :rem 81
3930 LB$=LEFT$(S$,13-LEN(E$(JB,5))):PRINT#4,LB$;E$
(JB,5);LF$                               :rem 56
3940 NEXT:LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF
$                                         :rem 82
3950 LB$=LEFT$(S$,48):PRINT#4,LB$;L$(17);"
{3 SPACES}$";                             :rem 173
3960 RA$=LEFT$(S$,13-LEN(TY$)):PRINT#4,RA$;TY$;LF$
                                           :rem 153
3970 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$;:PR
INT#4,LB$;"DDDDDDDDDD"                   :rem 223
3980 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO310                                     :rem 84
3990 POKEBO,14:POKEBA,6:POKE646,14       :rem 14
4000 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
DISK":PRINT                               :rem 254
4010 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
ROGRAM DISK":PRINT"{4 DOWN}              :rem 154
4020 PRINTTAB(9)"PRESS 'C' TO CONTINUE   :rem 252
4030 GETA$:IFAS$=""THEN4030              :rem 177
4040 IFAS$<>"C"THEN4030                  :rem 179
4050 POKE631,83:POKE632,89:POKE633,83    :rem 102
4060 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
OKE638,48:POKE639,13                     :rem 72
4070 POKE198,9:NEW                        :rem 37
5000 REM FORMAT                           :rem 114
5010 PRINT F1$;ERL$;F2$;ERL$;F3$:RETURN  :rem 5

```

ADJUSTMENTS

Remember to use the name above for the program you place on the PAM master disk.

```

20 DIML$(30),M$(12):DIMTR$(150,4):DIMAD$(100,4)
                                           :rem 213
30 DIMFW$(40),IT$(10),DI$(10),TF$(9),TG$(9):N=150:
MT=1:MA=1                                  :rem 164
40 BO=53280:BA=53281:F1=0:D1=0:I1=0:PN=0:FL=0
                                           :rem 10
50 DIMFW(40),IT(10),DI(10)                :rem 119
60 NN$="-":AT$="":SM$="":RM$="":TM$="":UM$="
                                           :rem 36
70 N$="":N1$="":N2$="":N3$="":N4$="":LL$="  :rem 45

```


CHAPTER
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```
75 F1$="{HOME}{15 DOWN}":ER1$="{43 SPACES}":rem 65
77 F2$="{HOME}{13 DOWN}":F3$=F2$+"{2 UP}":F4$=F1$+
  "{6 DOWN}":rem 65
80 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
  =0:rem 147
90 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
  0):LB$="":RA$="":rem 32
100 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH"
  :M$(4)="APRIL":rem 80
110 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="A
  UGUST":rem 58
120 M$(9)="SEPTEMBER":M$(10)="OCTOBER":rem 128
130 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,2:P
  OKEBA,2:POKE646,1:rem 182
140 PRINT"{CLR}{3 DOWN}":PRINTTAB(14)"ADJUSTMENTS"
  :FORD=1TO5000:NEXT:rem 202
150 POKEBO,14:POKEBA,6:POKE646,14:rem 207
160 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
  AM DISK":PRINT:rem 205
170 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
  TA DISK":PRINT:PRINT"{4 DOWN}":rem 56
180 PRINTTAB(9)"PRESS 'C' TO CONTINUE":rem 207
190 GETA$:IFA$<>"C"THEN190:rem 215
200 POKEBO,12:POKEBA,12:POKE646,1:rem 194
210 PRINT"{CLR}{2 DOWN}":PRINTTAB(14)"ADJUSTMENTS"
  :PRINT:PRINT:rem 145
220 PRINT"LOADING PERSONAL DATA ";F$="PERSDATA"
  :rem 115
230 OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
  $,N3$,N4$:PRINT ".":rem 22
240 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT ".":CLOSE
  8:GOSUB3670:IFE>19THEN150:rem 113
250 F$="INCDATA":OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,
  F1,D1,I1:PRINT ".":rem 64
260 FORJ=1TO39:INPUT#8,FW$(J),FW(J):NEXT:PRINT ".
  ":rem 68
270 FORJ=1TO9:INPUT#8,IT$(J),IT(J):NEXT:rem 158
280 PRINT ".":FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXT
  :PRINT ".":CLOSE8:rem 79
290 GOSUB3670:IFE>19THEN150:rem 102
300 POKEBO,4:POKEBA,4:POKE646,1:PRINT"{CLR}
  {3 DOWN}":PRINTTAB(14)"ADJUSTMENTS":rem 254
310 PRINTTAB(12)"{DOWN}1.{2 SPACES}ADJUSTMENTS":PR
  INTTAB(12)"{DOWN}2.{2 SPACES}TRANSFERS":rem 79
320 PRINTTAB(12)"{DOWN}3.{2 SPACES}DISPLAY":PRINTT
  AB(12)"{DOWN}4.{2 SPACES}MAIN MENU":rem 186
330 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER"
  :rem 104
340 GETA$:IFA$=""THEN340:rem 81
350 IFA$<"1"ORA$>"4"THEN340:rem 191
```

```

360 AA=VAL(A$):ONAAGOTO510,1800,430,3790 :rem 208
370 PRINTTAB(12)"ENTER/CHANGE DATA":PRINTTAB(11)"
{DOWN}1.{2 SPACES}ADD NEW ITEM :rem 40
380 PRINTTAB(11)"{DOWN}2.{2 SPACES}CORRECTIONS":PR
INTTAB(11)"{DOWN}3.{2 SPACES}DELETE :rem 74
390 PRINTTAB(11)"{DOWN}4.{2 SPACES}RETURN TO MENU"
:PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER
:rem 46
400 GETA$:IFA$=""THEN400 :rem 75
410 IFA$<"1"ORA$>"4"THEN400 :rem 185
420 AA=VAL(A$):RETURN :rem 8
430 POKEBO,4:POKEBA,4:POKE646,1:PRINT"{CLR}
{2 DOWN}":PRINT:PRINTTAB(16)"DISPLAY :rem 126
440 PRINTTAB(4)"{DOWN}1.{2 SPACES}INDIVIDUAL ADJUS
TMENT ITEMS :rem 125
450 PRINTTAB(4)"{DOWN}2.{2 SPACES}SUMMARY OF ADJUS
TMENTS :rem 42
460 PRINTTAB(4)"{DOWN}3.{2 SPACES}INDIVIDUAL TRANS
FER ITEMS :rem 231
470 PRINTTAB(4)"{DOWN}4.{2 SPACES}SUMMARY OF TRANS
FERS":PRINTTAB(9)"{2 DOWN}PRESS DESIRED NUMBER
:rem 120
480 GETA$:IFA$=""THEN480 :rem 91
490 IFA$<"1"ORA$>"4"THEN480 :rem 201
500 AA=VAL(A$):ONAAGOTO1240,1390,2610,2760 :rem 47
510 POKEBO,11:POKEBA,11:POKE646,1 :rem 196
520 PRINT"{CLR}{2 DOWN}":PRINT"ADJUSTMENTS":PRINT:
PRINT:GOSUB370 :rem 92
530 ONAAGOTO540,780,1040,300 :rem 4
540 POKEBO,9:POKEBA,9:POKE646,1 :rem 117
550 GOSUB770:GOSUB3620:OPEN15,8,15:INPUT#15,E,E$:C
LOSE15:GOSUB770 :rem 204
560 FORJ=MATON:PRINT"ITEM NO.":J:PRINT:K=1:rem 204
570 PRINT"ENTER DATE (MONTH 2 DIGITS, DAY 2
:rem 199
580 PRINT"DIGITS).{2 SPACES}SAMPLE: 0324 FOR MARCH
24":PRINT:INPUT"DATE";AD$(J,K) :rem 239
590 K=2 :rem 88
600 PRINTF3$;:INPUT"DISPOSITION CODE AFFECTED:":AD
$(J,K):FL=0:FORZ=1TO9 :rem 217
610 LL$=LEFT$(DI$(Z),3):IFLL$=AD$(J,K)THENFL=1:Z=9
:rem 161
620 NEXT:IFFL=0THENPRINTF3$;ER1$;F3$;"ERROR IN DIS
CODE":SYS828 :rem 109
625 IFFL=0THEN GOSUB 5000:GOTO 600 :rem 168
630 AG$(K)=AD$(J,K):K=3:PRINTF2$;:INPUT"EXPLANATIO
N:":AD$(J,K) :rem 237
640 IFLEN(AD$(J,K))>18THENAD$(J,K)=LEFT$(AD$(J,K),
18) :rem 210
650 K=4 :rem 87

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```

660 PRINTF1$;:INPUT"AMOUNT (+/-)";AD$(J,K):P$=AD$
(J,K) :rem 143
670 GOSUB3700:IFE=1THEN660 :rem 116
680 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)="."THEN700
:rem 228
690 PRINTF1$ER1$F1$;"ERROR--AMOUNT NOT IN X.XX FOR
M":SYS828:FORD=1TOL000:NEXT :rem 2
695 GOSUB 5000:GOTO 660 :rem 248
700 MA=MA+1:PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"ANOT
HER ITEM? (Y/N) :rem 104
710 GETA$:IFA$=" "THEN710 :rem 83
720 IFA$="Y"THENGOSUB770:NEXT :rem 45
730 IFA$<>"N"THEN710 :rem 97
740 J=N:NEXT:GOSUB3400:GOSUB3280:PRINT:PRINT"
{3 DOWN}SAVING . ."; :rem 85
750 GOSUB3540:IFE>19THEN300 :rem 96
760 GOTO1270 :rem 160
770 PRINT"{CLR}ADJUSTMENTS":PRINT:RETURN :rem 53
780 POKEBO,9:POKEBA,9:POKE646,1:GOSUB770:PRINTTAB(
15)"CORRECTIONS":PRINT :rem 126
790 GOSUB3620:GOSUB3670:IFE>19THEN300 :rem 237
800 GOSUB770:LL=0:K=14:PRINTTAB(15)"CORRECTIONS":P
RINT :rem 199
810 PRINT"ITEM NO."TAB(10)"DIS"TAB(33)L$(5):PRINT
:rem 92
820 FORJ=1TOMA-1:PRINTTAB(3)JTAB(10)AD$(J,2);
:rem 154
830 PRINTTAB(39-LEN(AD$(J,4)))AD$(J,4):LL=LL+1:IFL
L=>KTHEN850 :rem 87
840 NEXT:IFJ=>MATHEN890 :rem 199
850 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 154
860 GETA$:IFA$<>"C"THEN860 :rem 223
870 LL=0:PRINT"{CLR}":PRINTTAB(15)"{DOWN}CORRECTIO
NS":PRINT :rem 254
880 PRINT"ITEM NO."TAB(10)"DIS"TAB(33)L$(5):PRINT:
GOTO840 :rem 114
890 A$="":PRINTF4$:ER1$:F4$;:INPUT"ITEM NO. TO COR
RECT";A$ :rem 132
910 JJ=VAL(A$):IFJJ<=0ORJJ>MA-1THEN890 :rem 57
920 PRINT"{CLR}":PRINT"CORRECT ITEM ";A$:PRINT
:rem 178
930 PRINT"PRESS RETURN IF NO CHANGE:":PRINT:PRINT
:rem 116
940 PRINT"DATE:":PRINTTAB(10)AD$(JJ,1);:INPUTAD$(
JJ,1) :rem 44
950 PRINT"DIS:":PRINTTAB(10)AD$(JJ,2);:INPUTAD$(J
J,2) :rem 241
960 FL=0:FORZ=1TO9:LL$=LEFT$(DI$(Z),3):IFLL$=AD$(J
J,2)THENFL=1:Z=9 :rem 216

```

```

970 NEXT:IFFL=0THENPRINTF3$;ER1$;F3$;"ERROR IN DIS
      CODE":SYS828                                :rem 117
975 IFFL=0THENGOSUB5000:GOTO950                    :rem 184
980 PRINT"EXPLANATION:":;PRINTTAB(10)AD$(JJ,3);:IN
      PUTAD$(JJ,3)                                  :rem 89
990 PRINTF1$;"AMOUNT:":;PRINTTAB(10)AD$(JJ,4);:DA$
      =AD$(JJ,4):INPUTAD$(JJ,4)                    :rem 209
1000 P$=AD$(JJ,4):GOSUB3700:IFE=1THENAD$(JJ,4)=DA
      $:GOTO 990                                    :rem 190
1010 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN1030
      :rem 53
1020 PRINTF1$ER1$F1$;"ERROR--AMOUNT NOT IN X.XX FO
      RM":SYS828:FORD=1TO1000:NEXT                  :rem 38
1025 IFFL=0THEN AD$(JJ,4)=DA$:GOSUB 5000:GOTO 990
      :rem 237
1030 GOSUB3400:GOSUB2600:GOTO510                    :rem 150
1040 POKEBO,2:POKEBA,2:POKE646,1:GOSUB770:PRINTTAB
      (16)"DELETIONS":PRINT                          :rem 243
1050 GOSUB3620:GOSUB3670:IFE>19THEN300              :rem 19
1060 GOSUB770:LL=0:K=14:PRINTTAB(16)"DELETIONS":PR
      INT                                             :rem 83
1070 PRINT"ITEM NO."TAB(10)"DIS"TAB(33)L$(5):PRINT
      :rem 139
1080 FORJ=1TOMA-1:PRINTTAB(3)JTAB(10)AD$(J,2);
      :rem 201
1090 PRINTTAB(39-LEN(AD$(J,4)))AD$(J,4):LL=LL+1:IF
      LL=>KTHEN1110                                    :rem 172
1100 NEXT:IFJ=>MATHEN1150                            :rem 19
1110 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 192
1120 GETA$:IFA$<>"C"THEN1120                          :rem 43
1130 LL=0:PRINT"{CLR}":PRINTTAB(16)"{DOWN}DELETION
      S":PRINT                                         :rem 129
1140 PRINT"ITEM NO."TAB(10)"DIS"TAB(33)L$(5):PRINT
      :GOTO1100                                        :rem 190
1150 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY
      {SPACE}TO EXIT                                   :rem 178
1160 GETA$:IFA$=""THEN1160                            :rem 179
1170 IFA$<>"C"THEN510                                  :rem 131
1180 PRINTF4$;ER1$;F4$;:INPUT"ITEM NO. TO DELETE";
      A$                                              :rem 46
1200 JJ=VAL(A$):IFJJ<=0ORJJ>MA-1THEN1180              :rem 139
1210 PRINT"{CLR}":PRINT"DELETING ITEM ";A$:PRINT:A
      D$(JJ,1)="9999":AD$(JJ,2)="ZZZ                 :rem 50
1215 PRINT F1$;"{2 DOWN}{7 SPACES}PRESS ANY KEY TO
      CONTINUE"                                       :rem 248
1216 GET R$:IF R$="" THEN 1216                        :rem 217
1220 AD$(JJ,3)="ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ":TR$(JJ,4)=""0.0
      0":GOSUB3400                                    :rem 144
1230 MA=MA-1:GOSUB2600:GOTO510                      :rem 8

```

CHAPTER
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```

1240 POKEBO,11:POKEBA,11:POKE646,1           :rem 245
1250 PRINT "{CLR}":PRINT:PRINTTAB(11)"{2 DOWN}DISPL
    AY ADJUSTMENTS"                             :rem 18
1260 GOSUB3620:GOSUB3670:IFE>19THEN510        :rem 25
1270 K=14:GOSUB1760:FORJ=1TOMA-1:PRINTAD$(J,1);
                                           :rem 74
1280 PRINTTAB(6)AD$(J,2);:PRINTTAB(11)AD$(J,3);
                                           :rem 194
1290 PRINTTAB(39-LEN(AD$(J,4)))AD$(J,4):LL=LL+1:IF
    LL=KTHEN1310                                  :rem 114
1300 NEXT:IFJ=>MATHEN1340                      :rem 22
1310 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                           :rem 194
1320 GETA$:IFA$<>"C"THEN1320                  :rem 47
1330 GOSUB1760:GOTO1300                        :rem 76
1340 PRINT:PRINT"HARD COPY? (Y/N)"            :rem 254
1350 GETA$:IFA$=" "THEN1350                    :rem 181
1360 IFA$="Y"THEN1680                          :rem 150
1370 IFA$<>"N"THEN1350                       :rem 195
1380 GOTO300                                    :rem 152
1390 PRINT "{CLR}":POKEBO,11:POKEBA,11:POKE646,1
                                           :rem 153
1400 PRINT:PRINTTAB(9)"{2 DOWN}DISPLAY ADJUSTMENTS
    "                                             :rem 72
1410 GOSUB3620:GOSUB3670:IFE>19THEN510        :rem 22
1420 PN=800:PRINT "{CLR}":PRINTNTAB(35)PN:PRINT:PR
    INTTAB(9)"SUMMARY OF ADJUSTMENTS"          :rem 101
1430 PRINTTAB(9)"[22 T]":PRINT"DISPOSITION"TAB(33)
    "AMOUNT"                                     :rem 224
1440 FORL=1TO39:PRINT"[L T]";:NEXT:PRINT:FORJ=1TO9:F
    ORZ=1TO9:LL$=LEFT$(DI$(Z),3)                :rem 170
1450 IFLL$=" "THEN1470                          :rem 145
1460 IFAG$(J)=LL$THENPRINTDI$(J);:PRINTTAB(39-LEN(
    AF$(J)))AF$(J)                              :rem 33
1470 NEXT:NEXT:PRINTTAB(29)"[10 T]":PRINTTAB(10)"N
    ET ADJUSTMENTS{5 SPACES}$";                :rem 172
1480 PRINTTAB(39-LEN(AT$))AT$:PRINT:PRINT"HARD COP
    Y? (Y/N)"                                    :rem 45
1490 GETA$:IFA$=" "THEN1490                    :rem 191
1500 IFA$="Y"THEN1530                          :rem 140
1510 IFA$<>"N"THEN1490                        :rem 196
1520 GOTO300                                    :rem 148
1530 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
    $;N$;LB$;PN;LF$;LF$                        :rem 226
1540 LB$=LEFT$(S$,29):PRINT#4,LB$;"SUMMARY OF ADJU
    STMENTS";LF$                                :rem 232
1550 PRINT#4,LB$;"[16 T]";LF$:PRINT#4,LA$;"DISPOSI
    TION";                                       :rem 55
1560 LB$=LEFT$(S$,43):PRINT#4,LB$;"AMOUNT";LF$
                                           :rem 165

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```

1570 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT
                                         :rem 149
1580 PRINT#4,LF$;LF$:FORJ=1TO9:FORZ=1TO9 :rem 255
1590 LL$=LEFT$(DI$(Z),3):IFLL$=""THEN1610 :rem 32
1600 IFAG$(J)=LL$THENGOSUB1660 :rem 18
1610 NEXT:NEXT:LB$=LEFT$(S$,57):PRINT#4,LB$;"
      [10 T]";LF$:LB$=LEFT$(S$,30) :rem 241
1620 PRINT#4,LB$;"NET ADJUSTMENTS{8 SPACES}$";
                                         :rem 162
1630 RA$=LEFT$(S$,16-LEN(AT$)):PRINT#4,RA$;AT$;LF$
                                         :rem 100
1640 LB$=LEFT$(S$,57):PRINT#4,LB$;"[10 T]";CR$:PRI
      NT#4,LB$;"DDDDDDDDDD :rem 55
1650 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO300 :rem 75
1660 PRINT#4,LA$;DI$(J); :rem 80
1670 RA$=LEFT$(S$,60-LEN(DI$(J))-LEN(AF$(J))):PRIN
      T#4,RA$;AF$(J);LF$:RETURN :rem 68
1680 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
      $;N$;LB$;PN;LF$;LF$ :rem 232
1690 LB$=LEFT$(S$,34):PRINT#4,LB$;"ADJUSTMENTS";LF
      $:PRINT#4,LB$;"[8 T]";LF$ :rem 171
1700 PRINT#4,LA$;"DATE{2 SPACES}DIS{2 SPACES}EXPLA
      NATION{22 SPACES}"; :rem 132
1710 LB$=LEFT$(S$,10):PRINT#4,LB$;"AMOUNT";LF$
                                         :rem 156
1720 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
      RINT#4,LF$;LF$:FORJ=1TOMA-1 :rem 235
1730 PRINT#4,LA$;AD$(J,1);" {2 SPACES}";AD$(J,2);:L
      B$=LEFT$(S$,2):PRINT#4,LB$;AD$(J,3); :rem 178
1740 LB$=LEFT$(S$,49-LEN(AD$(J,3))-LEN(AD$(J,4))):
      PRINT#4,LB$;AD$(J,4);LF$:NEXT :rem 177
1750 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO300 :rem 76
1760 LL=0:PRINT "{CLR}":PN=810:PRINTN$TAB(35)PN:PRI
      NT:PRINTTAB(14)"ADJUSTMENTS :rem 21
1770 PRINTTAB(14)"[11 T] :rem 12
1780 PRINT"DATE"TAB(6)"DIS"TAB(11)"EXPLANATION"TAB
      (33)"AMOUNT :rem 214
1790 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
                                         :rem 196
1800 POKEBO,10:POKEBA,10:POKE646,1 :rem 245
1810 PRINT"{CLR}{2 DOWN}":PRINT"TRANSFERS":PRINT:P
      RINT:GOSUB370 :rem 245
1820 ONAAGOTO1830,2110,2390,300 :rem 152
1830 POKEBO,10:POKEBA,10:POKE646,1:PRINT"{CLR}TRAN
      SFERS":PRINT:GOSUB3580 :rem 159
1840 OPEN15,8,15:INPUT#15,E,E$:CLOSE15:FORJ=MTTON:
      PRINT"{CLR}TRANSFERS":PRINT :rem 33

```

CHAPTER
FOURTEEN

```

1850 PRINT"ITEM NO.";J:PRINT:K=1:PRINT"ENTER DATE
      {SPACE}(MONTH 2 DIGITS, DAY 2           :rem 61
1860 PRINT"DIGITS).{2 SPACES}SAMPLE: 0324 FOR MARC
      H 24":PRINT:INPUT"DATE";TR$(J,K)       :rem 66
1870 K=2                                       :rem 138
1880 GOSUB2090                                 :rem 28
1890 PRINTF3$ER1$F3$"{2 UP}"ER1$F3$"{2 UP}";:INPUT
      "FROM DIS CODE:";TR$(J,K)              :rem 163
1892 IFTR$(J,K)="D"THENGOSUB3730:GOTO1880    :rem 196
1900 FL=0:FORZ=1TO9:LL$=LEFT$(DI$(Z),3):IFLL$=TR$(
      J,K)THENFL=1:Z=9                       :rem 243
1910 NEXT:IFFL=0THENPRINTF3$;ER1$;F3$;"ERROR IN DI
      S CODE":SYS828                         :rem 160
1915 IFFL=0THEN GOSUB 5000:GOTO 1890         :rem 23
1920 TG$(K)=TR$(J,K):K=3                     :rem 53
1930 PRINTF3$;ER1$;F3$;:INPUT"TO DIS CODE:";TR$(J,
      K)                                       :rem 46
1932 IFTR$(J,K)="D"THENGOSUB3730:GOSUB2090:GOTO193
      0                                       :rem 64
1940 FL=0:FORZ=1TO9:LL$=LEFT$(DI$(Z),3):IFLL$=TR$(
      J,K)THENFL=1:Z=9                       :rem 247
1950 NEXT:IFFL=0THENPRINTF3$;ER1$;F3$;"ERROR IN DI
      S CODE":SYS828                         :rem 164
1955 IFFL=0THEN GOSUB 5000:GOTO1930         :rem 22
1960 TG$(K)=TR$(J,K):K=4                     :rem 58
1970 PRINTF1$;:INPUT"AMOUNT:";TR$(J,K):P$=TR$(J,K)
      :rem 46
1980 GOSUB3700:IFEF=1THEN1970                :rem 222
1990 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN2010
      :rem 69
2000 PRINTF1$ER1$F1$;"ERROR--AMOUNT NOT IN X.XX FO
      RM":SYS828:FORD=1TO1000:NEXT          :rem 37
2005 GOSUB 5000:GOTO1970                     :rem 80
2010 MT=MT+1:PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"ANO
      THER ITEM? (Y/N)                       :rem 186
2020 GETA$:IFA$=""THEN2020                   :rem 171
2030 IFA$="Y"THEN2060                         :rem 138
2040 IFA$<>"N"THEN2020                       :rem 185
2050 J=N                                       :rem 156
2060 NEXT:GOSUB3320:GOSUB3130:PRINT:PRINT"{3 DOWN}
      SAVING . .";                           :rem 110
2070 GOSUB3480:IFE>19THEN300                 :rem 144
2080 GOTO2640                                 :rem 207
2090 PRINT"{CLR}TRANSFERS":PRINT            :rem 174
2100 PRINT"PRESS 'D' FOR STANDARD DISPOSITION CODE
      S":PRINT:RETURN                        :rem 143
2110 PRINT"{CLR}":POKEBO,10:POKEBA,10:POKE646,1:PR
      INT"TRANSFERS":PRINT                   :rem 24
2120 PRINTTAB(15)"CORRECTIONS":PRINT:GOSUB3580:GOS
      UB3670:IFE>19THEN300                  :rem 194

```

CHAPTER
FOURTEEN

```

2130 PRINT "{CLR}":PRINT "TRANSFERS":PRINT:LL=0:K=14
      :PRINTTAB(15)"CORRECTIONS":PRINT      :rem 197
2140 PRINT"ITEM NO. "TAB(10)"FROM DIS"TAB(33)L$(5):
      PRINT:FORJ=1TOMT-1                      :rem 57
2150 PRINTTAB(3)JTAB(10)TR$(J,2);:PRINTTAB(39-LEN(
      TR$(J,4)))TR$(J,4)                      :rem 195
2160 LL=LL+1:IFLL=>KTHEN2180                  :rem 179
2170 NEXT:IFJ=MTTHEN2220                      :rem 239
2180 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 200
2190 GETA$:IFA$(("<"C"THEN2190                :rem 59
2200 LL=0:PRINT "{CLR}":PRINTTAB(15)"{DOWN}CORRECTI
      ONS":PRINT                                :rem 35
2210 PRINT"ITEM NO. "TAB(10)"FROM DIS"TAB(33)L$(5):
      PRINT:GOTO2170                            :rem 249
2220 A$="":PRINTF4$;ER1$;F4$;:INPUT"ITEM NO. TO CO
      RRECT";A$                                  :rem 169
2240 JJ=VAL(A$):IFJJ<=0ORJJ>MT-1THEN2220     :rem 159
2250 PRINT "{CLR}":PRINT "CORRECT ITEM ";A$:PRINT
      :rem 224
2260 PRINT"PRESS RETURN IF NO CHANGE:":FL=0:rem 77
2270 PRINT"DATE: ";:PRINTTAB(10)TR$(JJ,1);:INPUTTR$(
      JJ,1)                                       :rem 156
2280 PRINT"FROM DIS: ";:PRINTTAB(10)TR$(JJ,2);:INPU
      TTR$(JJ,2)                                  :rem 149
2290 FORZ=1TO9:LL$=LEFT$(DIS(Z),3):IFLL$=TR$(JJ,2)
      THENFL=1:Z=9                               :rem 238
2300 NEXT:IFFL=0THENPRINTF3$;ER1$;F3$;"ERROR IN DI
      S CODE":SYS828                             :rem 154
2305 IFFL=0THEN GOSUB 5000:GOTO2280           :rem 11
2310 PRINT"TO DIS: ";:PRINTTAB(10)TR$(JJ,3);:INPUT
      R$(JJ,3)                                    :rem 0
2320 FL=0:FORZ=1TO9:LL$=LEFT$(DIS(Z),3):IFLL$=TR$(
      JJ,3)THENFL=1:Z=9                          :rem 34
2330 NEXT:IFFL=0THENPRINTF3$;ER1$;F3$;"ERROR IN DI
      S CODE":SYS828                             :rem 157
2335 IFFL=0THEN GOSUB 5000:GOTO2310           :rem 8
2340 RR$=TR$(JJ,4):PRINTF1$"AMOUNT: ";:PRINTTAB(10)
      TR$(JJ,4);:INPUTTR$(JJ,4)                 :rem 63
2350 P$=TR$(JJ,4):GOSUB3700:IFEFE=1THENTR$(JJ,4)=RR
      $:GOTO2340                                  :rem 79
2360 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)="."THEN2380
      :rem 71
2370 PRINTF1$;ER1$F1$;"ERROR--AMOUNT NOT IN X.XX F
      ORM":SYS828:FORD=1TO1000:NEXT             :rem 106
2375 TR$(JJ,4)=RR$:GOSUB 5000:GOTO2340       :rem 160
2380 GOSUB3320:GOSUB2590:GOTO1800           :rem 219
2390 PRINT "{CLR}":POKEBO,2:POKEBA,2:POKE646,1
      :rem 58

```


CHAPTER
FOURTEEN

```
2400 PRINT"TRANSFERS":PRINT:PRINTTAB(16)"DELETIONS
":PRINT :rem 30
2410 GOSUB3580:GOSUB3670:IFE>19THEN300 :rem 25
2420 PRINT"{CLR}":PRINT"TRANSFERS":PRINT:LL=0:K=14
:PRINTTAB(16)"DELETIONS":PRINT :rem 36
2430 PRINT"ITEM NO."TAB(10)"FROM DIS"TAB(33)L$(5):
PRINT:FORJ=1TOMT-1 :rem 59
2440 PRINTTAB(3)JTAB(10)TR$(J,2);:PRINTTAB(39-LEN(
TR$(J,4)))TR$(J,4) :rem 197
2450 LL=LL+1:IFLL=>KTHEN2470 :rem 183
2460 NEXT:IFJ=MTTHEN2510 :rem 243
2470 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 202
2480 GETA$:IFA$<>"C"THEN2480 :rem 63
2490 LL=0:PRINT"{CLR}":PRINTTAB(16)"{DOWN}DELETION
S":PRINT :rem 139
2500 PRINT"ITEM NO."TAB(10)"FROM DIS"TAB(33)L$(5):
PRINT:GOTO2460 :rem 253
2510 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY
{SPACE}TO EXIT :rem 179
2520 GETA$:IFA$=""THEN2520 :rem 181
2530 IFA$<>"C"THEN1800 :rem 183
2540 PRINTF4$;ER1$;F4$;:INPUT"ITEM NO. TO DELETE";
A$ :rem 47
2560 JJ=VAL(A$):IFJJ<=0ORJJ>MT-1THEN2540 :rem 169
2570 PRINT"{CLR}":PRINT"DELETING ITEM ";A$:PRINT:T
R$(JJ,1)="9999":TR$(JJ,2)="ZZZ :rem 126
2575 PRINT F1$;"{2 DOWN}{7 SPACES}PRESS ANY KEY TO
CONTINUE" :rem 2
2576 GET R$:IF R$="" THEN 2576 :rem 237
2580 TR$(JJ,3)="ZZZ":TR$(JJ,4)="0.00":GOSUB3320:MT
=MT-1:GOSUB2590:GOTO1800 :rem 83
2590 GOSUB3130:PRINT:PRINT"{3 DOWN}SAVING . .":GO
SUB3480:RETURN :rem 30
2600 GOSUB3280:PRINT:PRINT"{3 DOWN}SAVING . .":GO
SUB3540:RETURN :rem 25
2610 POKEBO,2:POKEBA,2:POKE646,1 :rem 151
2620 PRINT"{CLR}":PRINT:PRINTTAB(11)"{2 DOWN}DISPL
AY TRANSFERS :rem 88
2630 GOSUB3580:GOSUB3670:IFE>19THEN1800 :rem 83
2640 K=14:GOSUB3090:FORJ=1TOMT-1:PRINTTR$(J,1);
:rem 126
2650 PRINTTAB(7)TR$(J,2);:PRINTTAB(20)TR$(J,3);
:rem 7
2660 PRINTTAB(39-LEN(TR$(J,4)))TR$(J,4):LL=LL+1:IF
LL=KTHEN2680 :rem 193
2670 NEXT:IFJ=>MTTHEN2710 :rem 54
2680 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 205
2690 GETA$:IFA$<>"C"THEN2690 :rem 69
```

CHAPTER
FOURTEEN

```

2700 GOSUB3090:GOTO2670 :rem 87
2710 PRINT:PRINT"HARD COPY? (Y/N) :rem 0
2720 GETA$:IFA$=""THEN2720 :rem 185
2730 IFA$="Y"THEN3000 :rem 140
2740 IFA$<>"N"THEN2720 :rem 199
2750 GOTO300 :rem 154
2760 PRINT"{CLR}":POKEBO,2:POKEBA,2:POKE646,1
:rem 59
2770 PRINT:PRINTTAB(11)"{2 DOWN}DISPLAY TRANSFERS
:rem 192
2780 GOSUB3580:GOSUB3670:IFE>19THEN1800 :rem 89
2790 PRINT"{CLR}":PN=900:PRINTN$TAB(35)PN:PRINT:PR
INTTAB(10)"SUMMARY OF TRANSFERS :rem 255
2800 PRINTTAB(10)"[20 T]":PRINT"DISPOSITION"TAB(33
)"AMOUNT :rem 196
2810 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:FORJ=1TO9:F
ORZ=1TO9:LL$=LEFT$(DI$(Z),3) :rem 172
2820 IFLL$=""THEN2840 :rem 149
2830 IFTG$(J)=LL$THENPRINTDI$(J);:PRINTTAB(39-LEN(
TF$(J)))TF$(J) :rem 92
2840 NEXT:NEXT:PRINT:PRINT"HARD COPY? (Y/N)
:rem 246
2850 GETA$:IFA$=""THEN2850 :rem 193
2860 IFA$="Y"THEN2890 :rem 160
2870 IFA$<>"N"THEN2850 :rem 207
2880 GOTO300 :rem 158
2890 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$;LF$ :rem 236
2900 LB$=LEFT$(S$,30):PRINT#4,LB$;"SUMMARY OF TRAN
SFERS";LF$ :rem 71
2910 PRINT#4,LB$;"[15 T]";LF$:PRINT#4,LA$;"DISPOSI
TION"; :rem 149
2920 LB$=LEFT$(S$,43):PRINT#4,LB$;"AMOUNT";LF$
:rem 166
2930 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$ :rem 135
2940 FORJ=1TO9:FORZ=1TO9 :rem 15
2950 LL$=LEFT$(DI$(Z),3):IFLL$=""THEN2970 :rem 43
2960 IFTG$(J)=LL$THENGOSUB2980 :rem 53
2970 NEXT:NEXT:FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#
4:CLOSE4:GOTO300 :rem 67
2980 PRINT#4,LA$;DI$(J); :rem 86
2990 RA$=LEFT$(S$,60-LEN(DI$(J))-LEN(TF$(J))):PRIN
T#4,RA$;TF$(J);LF$:RETURN :rem 112
3000 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$;LF$ :rem 220
3010 LB$=LEFT$(S$,35):PRINT#4,LB$;"TRANSFERS";LF$:
PRINT#4,LB$;"[7 T]";LF$ :rem 99
3020 PRINT#4,LA$;"DATE{12 SPACES}FROM DIS
{14 SPACES}TO DIS"; :rem 245

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CHAPTER
FOURTEEN

```

3030 LB$=LEFT$(S$,10):PRINT#4,LB$;"AMOUNT";LF$
                                          :rem 153
3040 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$;FORJ=1TOMT-1
                                          :rem 251
3050 PRINT#4,LA$;TR$(J,1);"{12 SPACES}";TR$(J,2);
                                          :rem 62
3060 LB$=LEFT$(S$,19):PRINT#4,LB$;TR$(J,3);
                                          :rem 155
3070 LB$=LEFT$(S$,19-LEN(TR$(J,4))):PRINT#4,LB$;TR
$(J,4);LF$;:NEXT
                                          :rem 238
3080 FORSP=1TO12:PRINT#4,LF$;:NEXT:PRINT#4:CLOSE4:G
OTO300
                                          :rem 74
3090 LL=0:PRINT"{CLR}":PN=910:PRINTN$TAB(35)PN:PRI
NT:PRINTTAB(15)"TRANSFERS
                                          :rem 123
3100 PRINTTAB(15)"[9 T]"
                                          :rem 222
3110 PRINT"DATE"TAB(7)"FROM DIS"TAB(20)"TO DIS"TAB
(33)"AMOUNT"
                                          :rem 98
3120 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
                                          :rem 185
3130 FORZ=1TO9:TF$(Z)="0.00":NEXT:FORZZ=1TO9:TG$(Z
Z)=LEFT$(DI$(ZZ),3)
                                          :rem 188
3140 FORZ=1TOMT-1:IFTR$(Z,2)=TG$(ZZ)THENGOSUB3170
                                          :rem 48
3150 IFTR$(Z,3)=TG$(ZZ)THENGOSUB3180
                                          :rem 168
3160 NEXT:NEXT:RETURN
                                          :rem 156
3170 P1$=TF$(ZZ):P2$=NN$+TR$(Z,4):GOSUB3190:TF$(ZZ
)=P3$:RETURN
                                          :rem 207
3180 P1$=TF$(ZZ):P2$=TR$(Z,4):GOSUB3190:TF$(ZZ)=P3
$:RETURN
                                          :rem 229
3190 TA=0:TL=0:TR=0:P$=P1$:GOSUB3250:TL=PL-1:TR=PR
+1:P$=P2$:GOSUB3250
                                          :rem 184
3200 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA=0THENP3$="0.0
0":RETURN
                                          :rem 16
3210 IFTA<0THENP3$=STR$(TA-.001)
                                          :rem 88
3220 IFTA>0THENP3$=STR$(TA+.001)
                                          :rem 89
3230 P3$=LEFT$(P3$,LEN(P3$)-1):IFLEFT$(P3$,1)=CHR$
(32)THENP3$=MID$(P3$,2)
                                          :rem 28
3240 RETURN
                                          :rem 169
3250 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$)
                                          :rem 18
3260 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
-1
                                          :rem 176
3270 RETURN
                                          :rem 172
3280 AT$="0.00":FORZ=1TO9:AF$(Z)="0.00":NEXT:FORZZ
=1TO9
                                          :rem 241
3290 AG$(ZZ)=LEFT$(DI$(ZZ),3):FORZ=1TOMA-1:IFAD$(Z
,2)=AG$(ZZ)THENGOSUB3310
                                          :rem 200
3300 NEXT:P1$=AT$:P2$=AF$(ZZ):GOSUB3190:AT$=P3$:NE
XT:RETURN
                                          :rem 152
3310 P1$=AF$(ZZ):P2$=AD$(Z,4):GOSUB3190:AF$(ZZ)=P3
$:RETURN
                                          :rem 153

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CHAPTER
FOURTEEN

```

3320 PRINT:PRINT "SORTING .";:IFMT<=2THEN3390:rem 2
3330 FORJJ=1TOMT-2:FORKK=JJ+1TOMT-1:IFTR$(KK,1)>TR
    $(JJ,1)THEN3380 :rem 249
3340 SM$=TR$(KK,1):RM$=TR$(KK,2):TM$=TR$(KK,3):UM$
    =TR$(KK,4) :rem 188
3350 TR$(KK,1)=TR$(JJ,1):TR$(KK,2)=TR$(JJ,2)
    :rem 181
3360 TR$(KK,3)=TR$(JJ,3):TR$(KK,4)=TR$(JJ,4)
    :rem 190
3370 TR$(JJ,1)=SM$:TR$(JJ,2)=RM$:TR$(JJ,3)=TM$:TR$
    (JJ,4)=UM$ :rem 183
3380 NEXT:PRINT " .";:NEXT :rem 250
3390 RETURN :rem 175
3400 PRINT:PRINT "SORTING .";:IFMA<=2THEN3470
    :rem 237
3410 FORJJ=1TOMA-2:FORKK=JJ+1TOMA-1:IFAD$(KK,1)>AD
    $(JJ,1)THEN3460 :rem 143
3420 SM$=AD$(KK,1):RM$=AD$(KK,2):TM$=AD$(KK,3):UM$
    =AD$(KK,4) :rem 55
3430 AD$(KK,1)=AD$(JJ,1):AD$(KK,2)=AD$(JJ,2)
    :rem 48
3440 AD$(KK,3)=AD$(JJ,3):AD$(KK,4)=AD$(JJ,4)
    :rem 57
3450 AD$(JJ,1)=SM$:AD$(JJ,2)=RM$:AD$(JJ,3)=TM$:AD$
    (JJ,4)=UM$ :rem 50
3460 NEXT:PRINT " .";:NEXT :rem 249
3470 RETURN :rem 174
3480 F$="TRANSFER":OPEN15,8,15:PRINT#15,"S0:"+F$:C
    LOSE15 :rem 15
3490 OPEN8,8,8,"0:"+F$+",S,W" :rem 192
3500 PRINT#8,MT:PRINT " .";:FORJB=1TO9:PRINT#8,TG$(
    JB),"TF$(JB)","":PRINT " ."; :rem 193
3510 NEXT :rem 8
3520 FORJB=1TOMT-1:FORKB=1TO4:PRINT#8,TR$(JB,KB)",
    ":PRINT " .";:NEXT:NEXT :rem 196
3530 CLOSE8:GOSUB3670:RETURN :rem 29
3540 F$="ADJUSTMENTS":OPEN15,8,15:PRINT#15,"S0:"+F$
    $:CLOSE15 :rem 249
3550 OPEN8,8,8,"0:"+F$+",S,W":PRINT#8,MA","AT$CR$:
    PRINT " .";:FORJB=1TO9 :rem 8
3560 PRINT#8,AG$(JB),"AF$(JB)","":PRINT " .";:NEXT:
    FORJB=1TOMA-1:FORKB=1TO4 :rem 93
3570 PRINT#8,AD$(JB,KB)","":PRINT " .";:NEXT:NEXT:CL
    OSE8:GOSUB3670:RETURN :rem 132
3580 PRINT:PRINT "LOADING .";:F$="TRANSFER":OPEN8,8
    ,8,"0:"+F$+",S,R":INPUT#8,MT :rem 146
3590 PRINT " .";:FORJB=1TO9:INPUT#8,TG$(JB),TF$(JB)
    :PRINT " .";:NEXT :rem 163
3600 FORJB=1TOMT-1 :rem 76

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CHAPTER
FOURTEEN

```

3610 FORKB=1TO4:INPUT#8,TR$(JB,KB):PRINT ".":NEXT
      :NEXT:CLOSE8:RETURN                               :rem 156
3620 PRINT:PRINT"LOADING .":F$="ADJUSTMENTS":OPEN
      8,8,8,"0":"+F$+",S,R                             :rem 102
3630 INPUT#8,MA,AT$:PRINT ".":FORJB=1TO9:INPUT#8,
      AG$(JB),AF$(JB):PRINT ".":                       :rem 195
3640 NEXT                                              :rem 12
3650 FORJB=1TOMA-1:FORKB=1TO4:INPUT#8,AD$(JB,KB):P
      RINT ".":NEXT:NEXT:CLOSE8                          :rem 15
3660 RETURN                                           :rem 175
3670 E=0:OPEN15,8,15:INPUT#15,E,E$                    :rem 163
3680 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
      EXT                                               :rem 200
3690 CLOSE15:RETURN                                   :rem 200
3700 EF=0:L1=LEN(P$):FORL=1TOL1:T$=MID$(P$,L,1):AB
      =ASC(T$):IFAB=46THEN3720                           :rem 100
3705 IF AB=43 OR AB=45 THEN 3720                       :rem 74
3710 IFAB<48ORAB>57THENL=L1:EF=1:PRINT:PRINTF1$ER1
      $F1$;"ERROR IN INPUT":SYS828                       :rem 118
3720 GOSUB 5000:NEXT:RETURN                            :rem 164
3730 PRINT"{CLR}{2 DOWN}":PRINTTAB(7)"STANDARD DIS
      POSITION CODES":PRINT                                :rem 152
3740 PRINTTAB(8)"DIS"TAB(13)"INCOME":PRINT:FORZ=1T
      O9:IFDI$(Z)=" "THEN3760                             :rem 155
3750 DK$(Z)=LEFT$(DI$(Z),3):PRINTTAB(8)DK$(Z)TAB(1
      3)DI$(Z)                                           :rem 50
3760 NEXT:PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 70
3770 GETA$:IFA$<>"C"THEN3770                           :rem 69
3780 RETURN                                           :rem 178
3790 POKEBO,14:POKEBA,6:POKE646,14                   :rem 12
3800 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
      DISK":PRINT                                         :rem 5
3810 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
      ROGRAM DISK":PRINT:PRINT"{4 DOWN}                 :rem 104
3820 PRINTTAB(9)"PRESS 'C' TO CONTINUE                :rem 3
3830 GETA$:IFA$=" "THEN3830                             :rem 191
3840 IFA$<>"C"THEN3830                                   :rem 193
3850 POKE631,83:POKE632,89:POKE633,83                :rem 109
3860 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13                               :rem 79
3870 POKEL98,9:NEW                                     :rem 44
5000 REM FORMAT                                       :rem 114
5010 PRINT F1$;ER1$;F1$;ER1$;F2$:RETURN              :rem 3

```

PLANNED INCOME

Remember to use the name above for the program you place on the PAM master disk.

```

20 BO=53280:BA=53281                                :rem 47
30 N=100:FE=0:F1=0:D1=0:I1=0:Y=0:MA=1:M=0:LL=0:YI=
   0:TA=0:TL=0:PN=0                                :rem 134
40 TR=0:PR=0:PL=0:MI=1:MY=1:MM=0                  :rem 208
50 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
   =0                                                :rem 144
60 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
   0):LB$="":RA$="                                :rem 29
70 N$="":N1$="":N2$="":N3$="":N4$="":TA$="":SM$="
   :RM$="":UM$="                                    :rem 168
75 F1$="{HOME}{18 DOWN}":ER1$="{43 SPACES}"
                                                :rem 116
77 F2$="{HOME}{16 DOWN}":F3$=F2$+"{2 UP}" :rem 239
80 PT$="":GL$="":PU$="":DA$="":DB$="                :rem 78
90 I1$="":I2$="":I3$="":I4$="":I5$="":P1$="":P2$="
   ":P3$="                                          :rem 247
100 P$="":PL$="":PR$="":A$="":Z$="":NN$="- :rem 97
110 DIML$(30),M$(12),FW$(40),IT$(10),DI$(10):DIMFW
   (40),IT(10),DI(10)                              :rem 253
120 DIMI$(100,5),PI$(100,4):M$(1)="JANUARY":M$(2)=
   "FEBRUARY                                        :rem 253
130 M$(3)="MARCH":M$(4)="APRIL":M$(5)="MAY":M$(6)=
   "JUNE                                            :rem 250
140 M$(7)="JULY":M$(8)="AUGUST                    :rem 191
150 M$(9)="SEPTEMBER":M$(10)="OCTOBER             :rem 131
160 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,5:P
   OKEBA,5:POKE646,1                                :rem 191
170 PRINT"{CLR}{3 DOWN}":PRINTTAB(13)"PLANNED INCO
   ME":FORD=1TO50000:NEXT                          :rem 55
180 POKEBO,14:POKEBA,6:POKE646,14                 :rem 210
190 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
   AM DISK":PRINT                                  :rem 208
200 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
   TA DISK":PRINT:PRINT"{4 DOWN}"                  :rem 50
210 PRINTTAB(9)"PRESS 'C' TO CONTINUE             :rem 201
220 GETA$:IFA$<>"C"THEN220                          :rem 203
230 POKEBO,12:POKEBA,12:POKE646,1                 :rem 197
240 PRINT"{CLR}{2 DOWN}":PRINTTAB(13)"PLANNED INCO
   ME":PRINT:PRINT                                  :rem 254
250 PRINT"LOADING PERSONAL DATA ";F$="PERSDATA
                                                :rem 118
260 OPENS,8,8,"0":"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
   $,N3$,N4$:PRINT ". ";                          :rem 25
270 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT ". ";:CLOSE
   8:GOSUB2630:IFE>19THEN180                       :rem 114
280 F$="INCDATA":OPENS,8,8,"0":"+F$+",S,R":INPUT#8,
   F1,D1,I1:PRINT ". ";                            :rem 67

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```
290 FORJ=1TO39:INPUT#8,FW$(J),FW(J):NEXT:PRINT" ."
; rem 71
300 FORJ=1TO9:INPUT#8,IT$(J),IT(J):NEXT rem 152
310 PRINT" .";:FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXT
:PRINT" .";:CLOSE8 rem 73
320 GOSUB2630:IFE>19THEN180 rem 94
330 POKEBO,5:POKEBA,5:POKE646,1:PRINT"{CLR}
{3 DOWN}":PRINTTAB(13)"PLANNED INCOME rem 109
340 PRINTTAB(8)"{DOWN}1. ENTER/CHANGE DATA":PRINTT
AB(8)"{DOWN}2. VIEW PLAN FOR MONTH rem 50
350 PRINTTAB(8)"{DOWN}3. VIEW PLAN FOR YEAR":PRINT
TAB(8)"{DOWN}4. COMPARE rem 124
360 PRINTTAB(8)"{DOWN}5. MAIN MENU":PRINTTAB(10)"
{4 DOWN}PRESS DESIRED NUMBER rem 164
370 GETA$:IFA$=""THEN370 rem 87
380 IFA$<"1"ORA$>"5"THEN370 rem 198
390 AA=VAL(A$):ONAAGOTO400,1610,2700,3010,3370
rem 236
400 PRINT"{CLR}{3 DOWN}":POKEBO,13:POKEBA,13:POKE6
46,0:PRINTTAB(12)"ENTER/CHANGE DATA rem 119
410 PRINTTAB(11)"{DOWN}1. START NEW MONTH":PRINTTA
B(11)"{DOWN}2. ADD NEW INCOME rem 176
420 PRINTTAB(11)"{DOWN}3. CORRECTIONS":PRINTTAB(11
)"{DOWN}4. DELETE rem 71
430 PRINTTAB(11)"{DOWN}5. PLANNED INCOME MENU
rem 54
440 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER
rem 106
450 GETA$:IFA$=""THEN450 rem 85
460 IFA$<"1"ORA$>"5"THEN450 rem 196
470 AA=VAL(A$):ONAAGOTO480,710,1070,1360,330
rem 145
480 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:TA
$="":GL$="" rem 101
490 PRINT"STARTING NEW MONTH":INPUT"MONTH NUMBER (
2 DIGITS, 01 TO 12)";M rem 9
500 PRINT:INPUT"FOR YEAR";YR:PRINT"COPY LAST YEAR'
S? (Y/N) rem 151
510 GETA$:IFA$=""THEN510 rem 79
520 IFA$="N"THEN700 rem 32
530 IFA$<>"Y"THEN510 rem 104
540 PRINT:PRINT"INSERT DATA DISK.{2 SPACES}PRESS '
C' WHEN READY.":GOSUB680:PRINT rem 139
550 PRINT:PRINTTAB(11)"1.{2 SPACES}PLANNED":PRINT:
PRINTTAB(11)"2.{2 SPACES}ACTUAL INCOME rem 44
560 PRINT:PRINTTAB(10)"PRESS DESIRED NUMBER
rem 240
570 GETA$:IFA$=""THEN570 rem 91
580 IFA$<"1"ORA$>"2"THEN570 rem 199
590 AA=VAL(A$):ONAAGOTO600,640 rem 228
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600 GOSUB2580:IFE>19THEN400 :rem 94
610 PRINT:PRINT"INSERT NEXT YEAR'S DATA DISK.
    {2 SPACES}PRESS 'C'WHEN READY. :rem 50
620 GOSUB680:GOSUB2530:IFE>19THEN400 :rem 179
630 GOTO330 :rem 104
640 GOSUB2390:IFE>19THENPRINT:PRINTE$:SYS828:FORD=
    1TO5000:NEXT:GOTO400 :rem 32
650 PRINT:PRINT"INSERT NEXT YEAR'S DATA DISK.
    {2 SPACES}PRESS 'C'WHEN READY. :rem 54
660 GOSUB680:MI=MY:PT$:TA$:GOSUB2530:IFE>19THEN400
    :rem 98
670 GOTO330 :rem 108
680 GETA$:IFA$<>"C"THEN680 :rem 223
690 RETURN :rem 127
700 POKEB,5:POKEBA,5:POKE646,1:MI=1:GOSUB2360:GOT
    O730 :rem 59
710 POKEB,5:POKEBA,5:POKE646,1:PRINTTAB(13){CLR}
    {2 DOWN}ADD NEW INCOME :rem 4
720 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)":M:GOS
    UB2580:IFE>19THEN400 :rem 32
730 FORJ=MITON:PRINT"{CLR}{2 DOWN}ALWAYS USE STAND
    ARD FROM WHOM NAME":PRINT :rem 181
740 PRINT:PRINTTAB(13){2 DOWN}ADD NEW INCOME":PRI
    NT"{DOWN}ITEM NO.":J:PRINT:K=1 :rem 164
750 PRINT"IF DESIRED, PRESS 'F' (RETURN) FOR
    :rem 63
760 PRINT"LIST OF STANDARD NAMES{9 SPACES}:rem 226
770 PRINT:PRINTL$(3); :rem 33
780 INPUTPI$(J,K):IFPI$(J,K)=""THEN780 :rem 229
790 IFPI$(J,1)=""F"THENGOSUB930:GOTO770 :rem 7
800 LL=LEN(PI$(J,1)):IFLL>15THENPI$(J,1)=LEFT$(PI$
    (J,1),15) :rem 95
810 K=2 :rem 83
820 PRINTF2$;"PLANNED AMOUNT"; :rem 83
830 INPUTPI$(J,K):IFPI$(J,K)=""THEN830 :rem 221
840 P$=PI$(J,2):GOSUB2670:IFEFE=1THEN820 :rem 23
850 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=""THEN870
    :rem 235
860 PRINTF2$;"ERROR--AMOUNT NOT IN X.XX FORM":SYS8
    28:FORD=1TO1000:NEXT :rem 123
865 GOSUB 5000:GOTO 820 :rem 245
870 MI=MI+1:PRINT"{CLR}{7 DOWN}":PRINTTAB(10)"ANOT
    HER ITEM? (Y/N) :rem 145
880 GETA$:IFA$=""THEN880 :rem 99
890 IFA$="N"THENJ=N:GOTO910 :rem 117
900 IFA$<>"Y"THEN880 :rem 115
910 NEXT:GOSUB2070:PRINT:GOSUB2280:PRINT:GOSUB2530
    :IFE>19THEN400 :rem 109
920 YI=0:MY=MI:GOTO1650 :rem 156

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```
930 PRINT "{CLR}{2 DOWN}":PRINT"STANDARD LIST OF FR
    OM WHOM INCOME IS                               :rem 243
940 PRINT"RECEIVED.{2 SPACES}SPELL EXACTLY.":PRINT
    :LL=0:FORFW=1TO39                               :rem 248
950 IFFW$(FW)=" "THEN970                            :rem 44
960 PRINTTAB(10)FW$(FW):LL=LL+1:IFLL=15THEN980
                                                    :rem 59
970 NEXT:IFFW=40THEN1020                            :rem 216
980 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                                    :rem 158
990 GETA$:IFA$=<>"C"THEN990                          :rem 36
1000 PRINT "{CLR}{2 DOWN}":PRINT"STANDARD LIST OF F
    ROM WHOM INCOME IS                               :rem 24
1010 PRINT"RECEIVED.{2 SPACES}SPELL EXACTLY.":PRIN
    T:LL=0:GOTO970                                   :rem 245
1020 PRINT:PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                                    :rem 135
1030 GETA$:IFA$<>"C"THEN1030                         :rem 43
1040 PRINT "{CLR}{2 DOWN}ALWAYS USE STANDARD TYPE,
    {SPACE}FROM WHOM                               :rem 21
1050 PRINT"NAME, AND DISPOSITION CODES.":PRINT:PRI
    NTTAB(13){2 DOWN}ADD NEW INCOME                 :rem 116
1060 PRINT "{DOWN}ITEM NO.":J:PRINT:RETURN         :rem 9
1070 PRINT "{CLR}":POKEBO,10:POKEBA,10:POKE646,1:PR
    INTTAB(15){DOWN}CORRECTIONS":PRINT             :rem 78
1080 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
    T"OF REPORT DESIRED":M                           :rem 202
1090 GOSUB2580:IFE>19THEN400                         :rem 146
1100 LL=0:K=14:PRINT "{CLR}":PRINTTAB(15){DOWN}COR
    RECTIONS":PRINT                                 :rem 72
1110 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
                                                    :rem 86
1120 FORJ=1TOMI-1:PRINTTAB(3)JTAB(10)PI$(J,1);
                                                    :rem 223
1130 PRINTTAB(39-LEN(PI$(J,2)))PI$(J,2):LL=LL+1:IF
    LL=>KTHEN1150                                   :rem 207
1140 NEXT:IFJ=MITHEN1190                             :rem 229
1150 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                                    :rem 196
1160 GETA$:IFA$<>"C"THEN1160                         :rem 51
1170 LL=0:PRINT "{CLR}":PRINTTAB(15){DOWN}CORRECTI
    ONS":PRINT                                       :rem 40
1180 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
    :GOTO1140                                        :rem 150
1190 PRINT                                           :rem 88
1200 A$="":PRINT F3$:ER1$:F3$;:INPUT"ITEM NO. TO C
    ORRECT":A$                                       :rem 164
1210 JJ=VAL(A$):IFJJ<=0ORJJ>MI-1THEN1200           :rem 141
1220 PRINT "{CLR}":PRINT"CORRECT ITEM ":A$:PRINT
                                                    :rem 220
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1230 PRINT"PRESS RETURN IF NO CHANGE:":PRINT
                                           :rem 215
1240 KK=1:PRINTL$(3);:PRINTTAB(16)PI$(JJ,1);:INPUT
      PI$(JJ,1):LL=?LEN(PI$(JJ,1))
                                           :rem 88
1250 IFLL>15THENPI$(JJ,1)=LEFT$(PI$(JJ,1),15)
                                           :rem 47
1260 KK=2:PRINTF2$;"PLANNED AMOUNT";:PRINTTAB(16)P
      I$(JJ,2);:IP$=PI$(JJ,2)
                                           :rem 134
1270 INPUTPI$(JJ,2):P$=PI$(JJ,2):GOSUB2670:IFEF=1T
      HENPI$(JJ,2)=IP$:GOTO1260
                                           :rem 245
1280 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN1300
                                           :rem 62
1290 PRINTF2$;"ERROR--AMOUNT NOT IN X.XX FORM":SYS
      828:FORD=1TO1000:NEXT
                                           :rem 169
1295 PI$(JJ,2)=IP$:GOSUB 5000:GOTO 1260
                                           :rem 134
1300 PRINT"{CLR}{7 DOWN}":PRINTTAB(10)"ANOTHER ITE
      M? (Y/N)
                                           :rem 183
1310 GETA$:IFA$=""THEN1310
                                           :rem 173
1320 IFA$="Y"THEN1100
                                           :rem 133
1330 IFA$<>"N"THEN1310
                                           :rem 187
1340 GOSUB2070:PRINT:GOSUB2280:PRINT:IFYR=0THENYR=
      Y
                                           :rem 118
1350 GOSUB2530:YI=0:GOTO400
                                           :rem 99
1360 PRINT"{CLR}":POKEBO,2:POKEBA,2:POKE646,1:PRIN
      TTAB(15){DOWN}DELETIONS":FE=1:PRINT
                                           :rem 129
1370 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
      T"OF REPORT DESIRED";M
                                           :rem 204
1380 GOSUB2580:IFE>19THEN400
                                           :rem 148
1390 LL=0:K=14:PRINT"{CLR}":PRINTTAB(16){DOWN}DEL
      ETIONS":PRINT
                                           :rem 176
1400 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
                                           :rem 88
1410 FORJ=1TOMI-1:PRINTTAB(3)JTAB(10)PI$(J,1);
                                           :rem 225
1420 PRINTTAB(39-LEN(PI$(J,2)))PI$(J,2):LL=LL+1:IF
      LL=KTHEN1440
                                           :rem 149
1430 NEXT:IFJ=MITHEN1480
                                           :rem 233
1440 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                           :rem 198
1450 GETA$:IFA$<>"C"THEN1450
                                           :rem 55
1460 LL=0:PRINT"{CLR}":PRINTTAB(15){DOWN}DELETION
      S":PRINT
                                           :rem 134
1470 PRINT"ITEM NO."TAB(10)L$(3)TAB(33)L$(5):PRINT
      :GOTO1430
                                           :rem 154
1480 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY
      {SPACE}TO EXIT
                                           :rem 184
1490 GETA$:IFA$=""THEN1490
                                           :rem 191
1500 IFA$<>"C"THEN400
                                           :rem 126
1510 PRINT
                                           :rem 84

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1520 PRINT F3$;ERL$;F3$;:INPUT"ITEM NO. TO DELETE"
      ;A$ :rem 42
1530 JJ=VAL(A$):IFJJ<=0ORJJ>MI-1THENPRINT"{3 UP}":
      A$="":GOTO 1520 :rem 174
1540 PRINT"{CLR}":PRINT"DELETE ITEM ";A$:PRINT:PI$
      (JJ,1)="ZZZZZZZZZZZZZZZZ :rem 96
1545 PRINTF1$;"{6 SPACES}PRESS ANY KEY TO CONTINUE
      " :rem 220
1546 GET R$:IF R$="" THEN 1546 :rem 229
1550 PI$(JJ,2)="0.00":PRINT"{CLR}{7 DOWN}":PRINTTA
      B(10)"ANOTHER ITEM? (Y/N) :rem 55
1560 GETA$:IFA$=""THEN1560 :rem 187
1570 IFA$="Y"THENFE=FE+1:GOTO1390 :rem 185
1580 IFA$<>"N"THEN1560 :rem 201
1590 GOSUB2070:PRINT:GOSUB2280:PRINT:MI=MI-FE:IFYR
      =0THENYR=Y :rem 216
1600 GOSUB2530:YI=0:GOTO400 :rem 97
1610 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:Y
      I=0:YD=0 :rem 90
1620 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
      T"OF REPORT DESIRED";M :rem 202
1630 GOSUB2580:IFE>19THEN330 :rem 148
1640 MY=MI :rem 68
1650 IFYR=0THENYR=Y :rem 227
1660 YS$=STR$(YR):YS$=MID$(YS$,2) :rem 183
1670 DA$=M$(M)+" "+YS$:PN=200+10*M:GOTO1680:rem 25
1680 POKEBO,5:POKEBA,5:POKE646,1:K=14:GOSUB1830:FO
      RJ=1TOMI-1:PRINTPI$(J,1); :rem 119
1690 PRINTTAB(23-LEN(PI$(J,2)))PI$(J,2);:PRINTTAB(
      32-LEN(PI$(J,3)))PI$(J,3); :rem 72
1700 PRINTTAB(39-LEN(PI$(J,4)))PI$(J,4):LL=LL+1:IF
      LL=KTHEN1720 :rem 155
1710 NEXT:IFJ=>MYTHEN1750 :rem 56
1720 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      " :rem 199
1730 GETA$:IFA$<>"C"THEN1730 :rem 57
1740 GOSUB1830:GOTO1710 :rem 84
1750 PRINTTAB(15)"[8 T] [8 T] [6 T]":PRINTTAB(5)LS
      (17)"{3 SPACES}$"; :rem 30
1760 PRINTTAB(23-LEN(PT$))PT$;:PRINTTAB(32-LEN(TA$
      ))TA$; :rem 110
1770 PRINTTAB(39-LEN(GL$))GL$ :rem 187
1780 PRINT"{2 DOWN}HARD COPY (Y/N) ? :rem 97
1790 GETA$:IFA$=""THEN1790 :rem 197
1800 IFA$="N"THEN330 :rem 81
1810 IFA$<>"Y"THEN1790 :rem 213
1820 GOTO1880 :rem 213
1830 LL=0:PRINT"{CLR}":PRINTN$TAB(35)PN:PRINT"{UP}
      "DA$:PRINT :rem 226
1840 PRINTTAB(13)"PLANNED INCOME" :rem 231

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1850 PRINTTAB(13)"[14 T]                :rem 243
1860 PRINT"FROM WHOM"TAB(16)"PLANNED"TAB(26)"ACTUA
L"TAB(35)"+/-                          :rem 171
1870 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
                                           :rem 195
1880 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$                        :rem 249
1890 PRINT#4,LA$;DA$;LF$;LF$:LB$=LEFT$(S$,33):PRIN
T#4,LB$;"PLANNED INCOME";LF$          :rem 84
1900 PRINT#4,LB$;"[11 T]";LF$         :rem 253
1910 PRINT#4,LA$;"FROM WHOM{14 SPACES}PLANNED
{10 SPACES}ACTUAL";                    :rem 113
1920 LB$=LEFT$(S$,9):PRINT#4,LB$;"+/-";LF$ :rem 42
1930 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$:FORJ=1TOMY-1           :rem 6
1940 PRINT#4,LA$;PI$(J,1);              :rem 186
1950 PC=30-LEN(PI$(J,1))-LEN(PI$(J,2)):GOSUB2060:P
RINT#4,LB$;PI$(J,2);                  :rem 209
1960 PC=16-LEN(PI$(J,3)):GOSUB2060:PRINT#4,LB$;PI$
(J,3);                                  :rem 198
1970 PC=14-LEN(PI$(J,4)):GOSUB2060:PRINT#4,LB$;PI$
(J,4);LF$:NEXT:IFJ=MYTHEN1980        :rem 237
1980 LB$=LEFT$(S$,29):PRINT#4,LB$;"[8 T]{6 SPACES}
[8 T]{6 SPACES}[6 T]";LF$           :rem 221
1990 LB$=LEFT$(S$,15):PRINT#4,LB$;L$(17);"
{3 SPACES}$";                          :rem 169
2000 PC=16-LEN(PT$):GOSUB2060:PRINT#4,LB$;PT$;
                                           :rem 218
2010 PC=16-LEN(TA$):GOSUB2060:PRINT#4,LB$;TA$;
                                           :rem 189
2020 PC=14-LEN(GL$):GOSUB2060:PRINT#4,LB$;GL$;LF$
                                           :rem 110
2030 LB$=LEFT$(S$,29):PRINT#4,LB$;"[8 T]{6 SPACES}
[8 T]{6 SPACES}[6 T]";CR$;          :rem 14
2040 PRINT#4,LB$;"DDDDDDDD{6 SPACES}DDDDDDDD
{6 SPACES}DDDDDD";LF$                :rem 208
2050 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO330                                  :rem 73
2060 LB$=LEFT$(S$,PC):RETURN           :rem 167
2070 PRINT:PRINT"{2 DOWN}SUMMING . .";:TA=0:TL=0:T
R=0:PT$="" :FORJ=1TOMI-1:PRINT" ."; :rem 113
2080 P$=PI$(J,2):GOSUB2190:TL=TL+PL:TR=TR+PR:NEXT
                                           :rem 62
2090 TA=TL+TR:IFTA=0THENPT$="0.00":RETURN :rem 41
2100 PT$=STR$(TA+.001):PT$=LEFT$(PT$,LEN(PT$)-1)
                                           :rem 222
2110 IFLEFT$(PT$,1)=CHR$(32)THENPT$=MID$(PT$,2)
                                           :rem 181
2120 RETURN                             :rem 165

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2130 TA=0:TL=0:TR=0:P$=P1$:GOSUB2190:TL=PL-1:TR=PR
+1:P$=P2$:GOSUB2190 :rem 181
2140 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA=0THENP3$="0.0
0":RETURN :rem 18
2150 IFTA<0THENP3$=STR$(TA-.001) :rem 90
2160 IFTA>0THENP3$=STR$(TA+.001) :rem 91
2170 P3$=LEFT$(P3$,LEN(P3$)-1):IFLEFT$(P3$,1)=CHR$(
(32)THENP3$=MID$(P3$,2) :rem 30
2180 RETURN :rem 171
2190 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$) :rem 20
2200 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
-1 :rem 169
2210 RETURN :rem 165
2220 TA=0:TL=0:TR=0:P$=P1$:GOSUB2190:TL=PL-1:TR=PR
+1:P$=NN$+P2$:GOSUB2190 :rem 160
2230 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA<.0001ANDTA>-.
0001THENP3$="0.00":RETURN :rem 146
2240 IFTA<0THENP3$=STR$(TA-.001) :rem 90
2250 IFTA>0THENP3$=STR$(TA+.001) :rem 91
2260 P3$=LEFT$(P3$,LEN(P3$)-1):IFLEFT$(P3$,1)=CHR$(
(32)THENP3$=MID$(P3$,2) :rem 30
2270 RETURN :rem 171
2280 IFMI=<2THEN2350 :rem 149
2290 PRINT"NOW SORTING. .";:FORJJ=1TOMI-2:FORKK=JJ
+1TOMI-1 :rem 133
2300 IFPI$(KK,1)>PI$(JJ,1)THEN2340 :rem 138
2310 SM$=PI$(KK,1):RM$=PI$(KK,2) :rem 4
2320 PI$(KK,1)=PI$(JJ,1):PI$(KK,2)=PI$(JJ,2)
:rem 125
2330 PI$(JJ,1)=SM$:PI$(JJ,2)=RM$ :rem 2
2340 NEXT:PRINT" .";:NEXT :rem 245
2350 RETURN :rem 170
2360 FORZ:PRINT"CLEARING THE WAY ."; :rem 227
2370 FORZ=1TON:FORK=1TO4:PI$(Z,K)="":NEXT:PRINT" .
"; :rem 164
2380 NEXT:PRINT:RETURN :rem 237
2390 GOSUB2360:PRINT:PRINT"LOADING .";:F$="INCOME"
+M$(M):OPEN15,8,15 :rem 52
2400 OPEN8,8,8,"0:"+F$+" ,S,R":INPUT#8,Y,MY,M,TA$,N
$:INPUT#15,E,E$ :rem 164
2410 IFE>19THEN2520 :rem 59
2420 JB=1:LL=0:INPUT#8,I$(JB,1),I$(JB,2),I$(JB,3),
I$(JB,4),I$(JB,5) :rem 79
2430 PI$(JB,1)=I$(JB,3):PI$(JB,2)=I$(JB,5):PI$(JB,
3)="":PI$(JB,4)=" :rem 7
2440 IFMY=<2THEN2520 :rem 162
2450 FORJD=2TOMY-1:INPUT#8,I1$,I2$,I3$,I4$,I5$:FOR
JC=1TOJD :rem 196
2460 P1$=PI$(JC,2):P2$=I5$ :rem 102

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2470 IFPI$(JC,1)=I3$THENGOSUB2130:PI$(JC,2)=P3$:LL
=LL+1:JC=JD:NEXT:GOTO2510 :rem 6
2480 NEXT :rem 13
2490 JB=JB+1:PI$(JB,1)=I3$:PI$(JB,2)=I5$:PI$(JB,3)
="":PI$(JB,4)=" :rem 230
2500 PRINT " ."; :rem 1
2510 NEXT:MY=MY-LL :rem 143
2520 CLOSE8:CLOSE15:RETURN :rem 167
2530 PRINT"I'M SAVING . .";:F$="PLNINC"+M$(M):OPEN
15,8,15:PRINT#15,"S0:"+F$ :rem 180
2540 CLOSE15:OPEN8,8,8,"0:"+F$+" ,S,W":PRINT#8,YR",
"MI","M","PT$CHR$(13) :rem 157
2550 FORJB=1TOMI-1 :rem 68
2560 PRINT#8,PI$(JB,1),"PI$(JB,2)","PI$(JB,3)","P
I$(JB,4)CHR$(13):PRINT " ."; :rem 61
2570 NEXT:CLOSE8:GOSUB2630:RETURN :rem 148
2580 GOSUB2360:TA$="":GL$="":PRINT:PRINT"LOADING .
";:F$="PLNINC"+M$(M) :rem 92
2590 OPEN8,8,8,"0:"+F$+" ,S,R":INPUT#8,YR,MI,M,PT$:
FORJB=1TOMI-1 :rem 186
2600 INPUT#8,PI$(JB,1),PI$(JB,2),PI$(JB,3),PI$(JB,
4):PRINT " .";:NEXT :rem 50
2610 CLOSE8:GOSUB2630 :rem 252
2620 RETURN :rem 170
2630 E=0:OPEN15,8,15:INPUT#15,E,E$ :rem 158
2640 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
EXT :rem 195
2650 CLOSE15:RETURN :rem 195
2660 PRINT:PRINT"DATA MISSING":SYS828:FORD=1TO5000
:NEXT:GOTO330 :rem 50
2670 EF=0:L1=LEN(P$):FORL=1TOL1:T$=MID$(P$,L,1):AB
=ASC(T$):IFAB=46THENNEXT :rem 220
2680 IFAB<48ORAB>57THENL=L1:EF=1:PRINTF2$;ER1$;F2$
;"ERROR IN INPUT":SYS828 :rem 44
2690 GOSUB 5000:NEXT:RETURN :rem 169
2700 POKEBO,15:POKEBA,15:POKE646,11:PRINT "{CLR}"
:rem 206
2710 YD=0:IFYI=1 THEN1680 :rem 171
2720 PRINT "{DOWN}PLANNED INCOME FOR ";YR$:MM=12:GO
SUB2780 :rem 90
2730 PRINT:PRINT"SAVING INCOME FOR YEAR FILE ."
:rem 77
2740 F$="PLNINC"+" "+YR$:OPEN15,8,15:PRINT#15,"S0:
"+F$:CLOSE15:AA=VAL(YR$) :rem 209
2750 OPEN8,8,8,"0:"+F$+" ,S,W":PRINT#8,AA,"MY","PU
$", "CHR$(13):FORKK=1TOMY-1 :rem 241
2760 PRINT " .";:PRINT#8,PI$(KK,1),"PI$(KK,2)","PI
$(KK,3)","PI$(KK,4)CHR$(13) :rem 103
2770 NEXT:CLOSE8:TA$="":GL$="":YI=1:PN=110:DA$=YR$
:GOTO1680 :rem 255

```

CHAPTER
FOURTEEN

```

2780 GOSUB2360:OPEN15,8,15:PRINT:PRINT"LOADING PLA
      NNED INCOME FOR:                :rem 112
2790 M=1:F$="PLNINC"+M$(M):PRINTM$(M),:OPEN8,8,8,"
      0:"+F$+",S,R                    :rem 215
2800 INPUT#8,Y,MY,M,PT$                :rem 121
2810 JB=1:LL=0:INPUT#15,E,E$          :rem 93
2820 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
      EXT:CLOSE8:CLOSE15:GOTO3000    :rem 247
2830 INPUT#8,PI$(JB,1),PI$(JB,2),PI$(JB,3),PI$(JB,
      4):IFMY<2THEN2890              :rem 102
2840 FORJD=2TOMY-1:INPUT#8,I1$,I2$,I3$,I4$:FORJC=1
      TOJD:P1$=PI$(JC,2):P2$=I2$     :rem 202
2850 IFPI$(JC,1)=I1$THENGOSUB2130:LL=LL+1:PI$(JC,2
      )=P3$:JC=JD:NEXT:GOTO2880     :rem 16
2860 NEXT                              :rem 15
2870 JB=JB+1:PI$(JB,1)=I1$:PI$(JB,2)=I2$:PI$(JB,3)
      =I3$:PI$(JB,4)=I4$           :rem 190
2880 NEXT:MY=MY-LL                    :rem 153
2890 CLOSE8:CLOSE15:IFMM=1THEN2990   :rem 107
2900 OPEN15,8,15:FORM=2TOMM:F$="PLNINC"+M$(M):OPEN
      8,8,8,"0:"+F$+",S,R          :rem 187
2910 INPUT#8,Y,MI,M,PT$:INPUT#15,E,E$:IFE>19THENM=
      MM:GOTO2980                    :rem 19
2920 PRINTM$(M),:FORJB=1TOMI-1:INPUT#8,I1$,I2$,I3$
      ,I4$:FORJC=1TOMY-1           :rem 93
2930 P1$=PI$(JC,2):P2$=I2$           :rem 101
2940 IFPI$(JC,1)=I1$THENGOSUB2130:PI$(JC,2)=P3$:JC
      =MY-1:NEXT:GOTO2970           :rem 131
2950 NEXT:PI$(MY,1)=I1$:PI$(MY,2)=I2$:PI$(MY,3)=I3
      $:PI$(MY,4)=I4$              :rem 179
2960 MY=MY+1                          :rem 182
2970 NEXT                              :rem 17
2980 CLOSE8:NEXT                      :rem 250
2990 CLOSE15:MI=MY:GOSUB2070:PRINT:PU$=PT$:GOSUB22
      80:PRINT                       :rem 2
3000 RETURN                            :rem 163
3010 POKEBO,2:POKEBA,2:POKE646,1:PRINT"{CLR}
      {3 DOWN}":PRINTTAB(10)"COMPARATIVE REPORTS
      :rem 63
3020 PRINTTAB(8)"{2 DOWN}1.{2 SPACES}MONTH":PRINTT
      AB(8)"{DOWN}2.{2 SPACES}YEAR TO DATE":YI=0
      :rem 20
3030 PRINTTAB(8)"{DOWN}3.{2 SPACES}PLANNED INCOME
      {SPACE}MENU":PRINT           :rem 34
3040 PRINTTAB(10)"PRESS DESIRED NUMBER" :rem 119
3050 GETA$:IFA$=" "THEN3050           :rem 179
3060 IFA$<"1"ORA$=" "3"THEN3050      :rem 32
3070 AA=VAL(A$):ONAAGOTO3080,3260,330 :rem 56
3080 POKEBO,9:POKEBA,9:POKE646,1:PRINT"{CLR}
      {3 DOWN}"                    :rem 120

```

CHAPTER
FOURTEEN

```

3090 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)";M:PR
INT:GOSUB2580:IFE>19THEN2660 :rem 84
3100 GOSUB3180:IFE>19THEN2660 :rem 195
3110 TA$=TB$:P1$=TA$:P2$=PT$:GOSUB2220:GL$=P3$:MY=
MI :rem 55
3120 DA$=M$(M)+" "+YR$:PN=200+10*M:GOTO1680:rem 16
3130 IFPI$(JC,3)=" "THENPI$(JC,3)=I5$:GOTO3160
:rem 22
3140 P1$=PI$(JC,3):P2$=I5$:GOSUB2130:PI$(JC,3)=P3$
:rem 251
3150 IFPI$(JC,2)=" "THENPI$(JC,4)=PI$(JC,3):GOTO317
0 :rem 113
3160 P1$=PI$(JC,3):P2$=PI$(JC,2):GOSUB2220:PI$(JC,
4)=P3$ :rem 85
3170 JC=MI-1:NEXT:GOTO3250 :rem 63
3180 OPEN15,8,15:F$="INCOME"+M$(M):OPENS8,8,8,"0:"+
F$+" ,S,R :rem 153
3190 INPUT#8,Y,MA,M,TB$,N$:INPUT#15,E,E$:IFE>19THE
NCLOSE8:CLOSE15:RETURN :rem 16
3200 FORJB=1TOM4-1:PRINT" .";:INPUT#8,I1$,I2$,I3$,
I4$,I5$:FORJC=1TOMI-1 :rem 125
3210 IFPI$(JC,1)=I3$THEN3130 :rem 32
3220 IFPI$(JC,4)=" "THENPI$(JC,4)=NN$+PI$(JC,2)
:rem 29
3230 NEXT :rem 7
3240 PI$(MI,1)=I3$:PI$(MI,2)=" ":PI$(MI,3)=I5$:PI$(
MI,4)=I5$:MI=MI+1 :rem 156
3250 NEXT:CLOSE8:CLOSE15:RETURN :rem 33
3260 POKEBO,7:POKEBA,7:POKE646,11 :rem 212
3270 E=0:PRINT"{CLR}" :rem 28
3280 INPUT"MONTH (2 DIGITS)";MM:IFMN=MMANDYD=1THEN
1680 :rem 90
3290 INPUT"DAY (2 DIGITS)";DD$:TA$=" ":DB$=DD$+" "+
M$(MM)+" "+YR$ :rem 78
3300 DA$="UP TO "+DB$:PRINT"{CLR}":PRINT"COMPARE P
LANNED INCOME TO":PRINTDB$ :rem 142
3310 GOSUB2780:IFE>19THEN2660 :rem 203
3320 FORM=1TOMM:GOSUB3180:IFE>19THENM=MM:NEXT:GOTO
2660 :rem 240
3330 IFTA$=" "THENTAS$=TB$:GOTO3350 :rem 175
3340 P1$=TA$:P2$=TB$:GOSUB2130:TA$=P3$ :rem 147
3350 NEXT:P1$=TA$:P2$=PT$:GOSUB2220:GL$=P3$:MY=MI:
YD=1:MN=MM:PN=111 :rem 101
3360 GOTO1680 :rem 212
3370 POKEBO,14:POKEBA,6:POKE646,14 :rem 6
3380 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
DISK":PRINT :rem 8
3390 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
ROGRAM DISK":PRINT:PRINT"{4 DOWN} :rem 107
3400 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 253

```


CHAPTER FOURTEEN

```
3410 GETA$: IFA$=" "THEN3410 :rem 179
3420 IFA$ <>"C"THEN3410 :rem 181
3430 POKE631,83:POKE632,89:POKE633,83 :rem 103
3440 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13 :rem 73
3450 POKE198,9:NEW :rem 38
5000 REM FORMAT :rem 114
5010 PRINT F1$:ER1$:F2$:ER1$:F3$:RETURN :rem 5
```

PLANNED EXPENDITURES

Remember to use the name above for the program you place on the PAM master disk.

```
20 BO=53280:BA=53281 :rem 47
30 N=100:FE=0:F1=0:D1=0:I1=0:Y=0:MA=1:M=0:LL=0:YE=
   0:TA=0:TL=0:PN=0:YF=0 :rem 200
40 TR=0:PR=0:PL=0:ME=1:MY=1:MM=0 :rem 204
50 E1=0:E2=0:E3=0:E4=0:EE=0:AA=0:TE=0 :rem 63
60 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80
   :rem 87
70 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
   0):LB$="":RA$=" :rem 30
75 F1$="{HOME}{16 DOWN}":ER1$="{43 SPACES}":rem 82
77 F2$="{HOME}{14 DOWN}":F3$=F2$+"{2 UP}":rem 205
80 N$="":N1$="":N2$="":N3$="":N4$="":SM$="":RM$="
   :F$="":RI$=" :rem 83
90 GE$="":PU$="":DA$="":DB$="":TE$="":RE$="":RC$="
   :rem 39
100 I1$="":I2$="":I3$="":I4$="":I5$="":P1$="":P2$=
   "":P3$=" :rem 31
110 E1$="":E2$="":E3$="":E4$="":E5$="":E6$="":E$="
   :rem 103
120 P$="":PL$="":PR$="":A$="":Z$="":NN$="-":DIML$(
   30),M$(12) :rem 14
130 DIMNE$(60),DE$(25),OE$(15),CE$(40) :rem 149
140 DIMNE(60),DE(25),OE(15),CE(40):DIME$(100,6),PE
   $(100,4) :rem 238
150 DIMRB$(12,4):M$(1)="JANUARY":M$(2)="FEBRUARY
   :rem 241
160 M$(3)="MARCH":M$(4)="APRIL":M$(5)="MAY":M$(6)=
   "JUNE :rem 253
170 M$(7)="JULY":M$(8)="AUGUST :rem 194
180 M$(9)="SEPTEMBER":M$(10)="OCTOBER :rem 134
190 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,5:P
   OKEBA,5:POKE646,1 :rem 194
200 PRINT{CLR}{3 DOWN}:PRINTTAB(10)"PLANNED EXPE
   NDITURES":FORD=1TO5000:NEXT :rem 19
210 POKEBO,14:POKEBA,6:POKE646,14 :rem 204
```

```

220 PRINT "{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
AM DISK":PRINT :rem 202
230 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
TA DISK":PRINT:PRINT "{4 DOWN} :rem 53
240 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 204
250 GETA$:IFA$<>"C"THEN250 :rem 209
260 POKEBO,15:POKEBA,15:POKE646,0 :rem 205
270 PRINT "{CLR}{2 DOWN}":PRINTTAB(10)"PLANNED EXPE
NDITURES":PRINT:PRINT :rem 227
280 PRINT"LOADING PERSONAL DATA ";:F$="PERSDATA
:rem 121
290 OPEN8,8,8,"0:"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
$,N3$,N4$:PRINT " ."; :rem 28
300 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT " .";:CLOSE
8:GOSUB3090:IFE>19THEN210 :rem 103
310 F$="EXPDATA":OPEN8,8,8,"0:"+F$+",S,R":INPUT#8,
E1,E2,E3,E4:PRINT " ."; :rem 244
320 FORJ=1TO59:INPUT#8,NE$(J),NE(J):NEXT:PRINT " .
:rem 47
330 FORJ=1TO25:INPUT#8,DE$(J),DE(J):NEXT :rem 161
340 PRINT " .";:FORJ=1TO15:INPUT#8,OE$(J),OE(J):NEX
T:PRINT " .";:FORJ=1TO39 :rem 135
350 INPUT#8,CE$(J),CE(J):NEXT:PRINT " .";:CLOSE8:GO
SUB3090:IFE>19THEN210 :rem 24
360 POKEBO,15:POKEBA,15:POKE646,0:PRINT "{CLR}
{3 DOWN}":PRINTTAB(10)"PLANNED EXPENDITURES
:rem 179
370 PRINTTAB(8)"{DOWN}1. ENTER/CHANGE DATA":PRINT
AB(8)"{DOWN}2. VIEW PLAN FOR MONTH :rem 53
380 PRINTTAB(8)"{DOWN}3. VIEW PLAN FOR YEAR":PRINT
TAB(8)"{DOWN}4. COMPARE :rem 127
390 PRINTTAB(8)"{DOWN}5. MIN REQD BALANCE":PRINTTA
B(8)"{DOWN}6. MAIN MENU :rem 79
400 PRINTTAB(10)"{3 DOWN}PRESS DESIRED NUMBER
:rem 85
410 GETA$:IFA$=""THEN410 :rem 77
420 IFA$<"1"ORA$>"6"THEN410 :rem 189
430 AA=VAL(A$):ONAAGOTO440,1830,3180,3490,3860,420
0 :rem 244
440 PRINT "{CLR}{3 DOWN}":POKEBO,15:POKEBA,15:POKE6
46,0:PRINTTAB(12)"ENTER/CHANGE DATA :rem 127
450 PRINTTAB(11)"{DOWN}1. START NEW MONTH":PRINTTA
B(11)"{DOWN}2. ADD NEW EXPENSE :rem 17
460 PRINTTAB(11)"{DOWN}3. CORRECTIONS":PRINTTAB(11
)"{DOWN}4. DELETE :rem 75
470 PRINTTAB(11)"{DOWN}5. PLANNED EXP MENU":PRINTT
AB(10)"{4 DOWN}PRESS DESIRED NUMBER :rem 154
480 GETA$:IFA$=""THEN480 :rem 91
490 IFA$<"1"ORA$>"5"THEN480 :rem 202

```

CHAPTER
FOURTEEN

```
500 AA=VAL(A$):ONAAGOTO510,740,1290,1580,360
                                           :rem 147
510 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:TE
    $="":GE$="                                           :rem 92
520 PRINT"STARTING NEW MONTH":INPUT"MONTH NUMBER (
    2 DIGITS, 01 TO 12)";M                               :rem 3
530 PRINT:INPUT"FOR YEAR";YR:PRINT"COPY LAST YEAR'
    S? (Y/N)                                             :rem 154
540 GETA$:IFA$=""THEN540                                 :rem 85
550 IFA$="N"THEN730                                     :rem 38
560 IFA$<>"Y"THEN540                                   :rem 110
570 PRINT:PRINT"INSERT DATA DISK.{2 SPACES}PRESS '
    C' WHEN READY.":GOSUB710:PRINT                       :rem 136
580 PRINT:PRINTTAB(11)"1.{2 SPACES}PLANNED":PRINT:
    PRINTTAB(11)"2.{2 SPACES}ACTUAL EXPENSE
                                           :rem 140
590 PRINT:PRINTTAB(10)"PRESS DESIRED NUMBER
                                           :rem 243
600 GETA$:IFA$=""THEN600                                 :rem 79
610 IFA$<"1"ORA$>"2"THEN600                             :rem 187
620 AA=VAL(A$):ONAAGOTO630,670                         :rem 228
630 GOSUB3040:IFE>19THEN440                             :rem 93
640 PRINT:PRINT"INSERT NEXT YEAR'S DATA DISK.
    {2 SPACES}PRESS 'C'WHEN READY.                     :rem 53
650 GOSUB710:GOSUB2990:IFE>19THEN440                   :rem 190
660 GOTO360                                             :rem 110
670 GOSUB2840:IFE>19THENPRINT:PRINTE$:SYS828:FORD=
    1TO5000:NEXT:GOTO440                                 :rem 39
680 PRINT:PRINT"INSERT NEXT YEAR'S DATA DISK.
    {2 SPACES}PRESS 'C'WHEN READY.                     :rem 57
690 GOSUB710:ME=MY:PE$=TE$:GOSUB2990:IFE>19THEN440
                                           :rem 94
700 GOTO360                                             :rem 105
710 GETA$:IFA$<>"C"THEN710                               :rem 211
720 RETURN                                             :rem 121
730 POKEBO,15:POKEBA,15:POKE646,0:ME=1:GOSUB2810:G
    OTO760                                               :rem 158
740 POKEBO,15:POKEBA,15:POKE646,0:PRINTTAB(13)"
    {CLR}{2 DOWN}ADD NEW EXPENSE                       :rem 197
750 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)";M:GOS
    UB3040:IFE>19THEN440                                 :rem 31
760 FORJ=METON:PRINT"{CLR}{2 DOWN}ALWAYS USE STAND
    ARD ACCOUNT NUMBER.":PRINT                         :rem 40
770 PRINT:PRINTTAB(13)"{2 DOWN}ADD NEW EXPENSE":PR
    INT"{DOWN}ITEM NO.":J:PRINT:K=1                    :rem 4
780 PRINT"IF DESIRED, PRESS 'F' (RETURN) FOR
                                           :rem 66
790 PRINT"LIST OF STANDARD ACCOUNT NUMBERS:rem 154
800 PRINT:PRINTL$(6);                                  :rem 30
810 INPUTE6$:IFE6$=""THEN810                           :rem 121
```

CHAPTER
FOURTEEN

```

820 IF E6$="F" THEN GOSUB 1100 : GOTO 800           : rem 11
830 EE=VAL(E6$) : IF EE<60 THEN 1000             : rem 26
840 IF EE=>60 AND EE<85 THEN 1020                : rem 142
850 IF EE=>85 AND EE<101 THEN 1040              : rem 189
860 IF EE>100 THEN 1060                          : rem 124
870 LL=LEN(PE$(J,1)) : IF LL>15 THEN PE$(J,1)=LEFT$(PE$(J,1),15) : rem 90
880 K=2                                           : rem 90
890 PRINT F1$ER1$F1$;"PLANNED AMOUNT";         : rem 224
900 INPUT PE$(J,K) : IF PE$(J,K)=" " THEN 890    : rem 217
910 P$=PE$(J,2) : GOSUB 3120 : IF EF=1 THEN 890  : rem 15
920 Z$=RIGHT$(P$,3) : IF MID$(Z$,1,1)=". " THEN 940 : rem 231
930 PRINT F1$ER1$F1$;"ERROR--AMOUNT NOT IN X.XX FOR M": SYS828 : FORD=1 TO 1000 : NEXT : rem 255
935 GOSUB 5000 : GOTO 890                        : rem 250
940 ME=ME+1 : PRINT "{CLR}{7 DOWN}": PRINT TAB(10)"ANOTHER ITEM? (Y/N)" : rem 135
950 GET A$ : IF A$=" " THEN 950                  : rem 95
960 IF A$="N" THEN J=N : GOTO 980                : rem 122
970 IF A$<>"Y" THEN 950                          : rem 120
980 NEXT : GOSUB 2620 : PRINT : GOSUB 2730 : PRINT : GOSUB 2990 : IF E>19 THEN 440 : rem 131
990 YE=0 : MY=ME : GOTO 1870                    : rem 159
1000 FOR JE=1 TO 59 : IF NE(JE)=VAL(E6$) THEN PE$(J,K)=NE$(JE) : rem 208
1010 NEXT : GOTO 1080                            : rem 61
1020 FOR JE=1 TO 25 : IF DE(JE)=VAL(E6$) THEN PE$(J,K)=DE$(JE) : rem 183
1030 NEXT : GOTO 1080                            : rem 63
1040 FOR JE=1 TO 15 : IF OE(JE)=VAL(E6$) THEN PE$(J,K)=OE$(JE) : rem 206
1050 NEXT : GOTO 1080                            : rem 65
1060 FOR JE=1 TO 39 : IF CE(JE)=VAL(E6$) THEN PE$(J,K)=CE$(JE) : rem 190
1070 NEXT : GOTO 1080                            : rem 67
1080 IF PE$(J,K)=" " THEN PRINT : PRINT "INVALID ACCOUNT {SPACE}NUMBER" : SYS828 : GOTO 800 : rem 46
1090 GOTO 870                                    : rem 162
1100 PRINT "{CLR}{3 DOWN}": PRINT TAB(8)"STANDARD ACCOUNT NUMBERS" : PRINT : LL=0 : rem 68
1110 PRINT TAB(8)"ACT" TAB(13)"EXPENSE" : PRINT : rem 123
1120 PRINT TAB(10)"1. " TAB(13)L$(25) : LL=LL+1 : rem 52
1130 FOREX=1 TO 59 : IF NE$(EX)=" " THEN 1150    : rem 173
1140 PRINT TAB(8)NE$(EX) TAB(13)NE$(EX) : LL=LL+1 : IF LL>14 THEN GOSUB 1250 : rem 32
1150 NEXT : PRINT : PRINT TAB(10)"2. " TAB(13)L$(26) : LL=L+1 : rem 121
1160 FOREX=1 TO 25 : IF DE$(EX)=" " THEN 1180    : rem 162

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CHAPTER
FOURTEEN

```
1170 PRINTTAB(8)DE(EX)TAB(13)DE$(EX):LL=LL+1:IFLL=
>14THENGOSUB1250 :rem 15
1180 NEXT:PRINT:PRINTTAB(10)"3."TAB(13)L$(27):LL=L
L+2 :rem 127
1190 FOREX=1TO15:IFOE$(EX)="THEN1210 :rem 169
1200 PRINTTAB(8)OE(EX)TAB(13)OE$(EX):LL=LL+1:IFLL=
>14THENGOSUB1250 :rem 31
1210 NEXT:PRINT:PRINTTAB(10)"4."TAB(13)L$(28):LL=L
L+2 :rem 123
1220 FOREX=1TO39:IFCE$(EX)="THEN1240 :rem 160
1230 PRINTTAB(7)CE(EX)TAB(13)CE$(EX):LL=LL+1:IFLL=
>14THENGOSUB1250 :rem 9
1240 NEXT :rem 6
1250 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 197
1260 GETA$:IFA$<>"C"THEN1260 :rem 53
1270 PRINT"{CLR}{DOWN}":LL=0:PRINTTAB(8)"STANDARD
{SPACE}ACCOUNT NUMBERS :rem 65
1280 PRINTTAB(8)"ACT"TAB(13)"EXPENSE":PRINT:RETURN
:rem 157
1290 PRINT"{CLR}":POKEBO,10:POKEBA,10:POKE646,1:PR
INTTAB(15)"{DOWN}CORRECTIONS":PRINT :rem 82
1300 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
T"OF REPORT DESIRED";M :rem 197
1310 GOSUB3040:IFE>19THEN440 :rem 137
1320 LL=0:K=14:PRINT"{CLR}":PRINTTAB(15)"{DOWN}COR
RECTIONS":PRINT :rem 76
1330 PRINT"ITEM NO."TAB(10)L$(6)TAB(33)L$(5):PRINT
:rem 93
1340 FORJ=1TOME-1:PRINTTAB(3)JTAB(10)PE$(J,1);
:rem 219
1350 PRINTTAB(39-LEN(PE$(J,2)))PE$(J,2):LL=LL+1:IF
LL=>KTHEN1370 :rem 207
1360 NEXT:IFJ=METHEN1410 :rem 224
1370 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
:rem 200
1380 GETA$:IFA$<>"C"THEN1380 :rem 59
1390 LL=0:PRINT"{CLR}":PRINTTAB(15)"{DOWN}CORRECTI
ONS":PRINT :rem 44
1400 PRINT"ITEM NO."TAB(10)L$(6)TAB(33)L$(5):PRINT
:GOTO1360 :rem 152
1410 PRINT :rem 83
1420 A$="":PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO CO
RRECT";A$ :rem 164
1430 JJ=VAL(A$):IFJJ<=0ORJJ>ME-1THEN1420 :rem 145
1440 PRINT"{CLR}":PRINT"CORRECT ITEM ";A$:PRINT
:rem 224
1450 PRINT"PRESS RETURN IF NO CHANGE:":PRINT
:rem 219
```

CHAPTER
FOURTEEN

```

1460 KK=1:PRINTL$(6);:PRINTTAB(16)PE$(JJ,1);:INPUT
    PE$(JJ,1):LL=LEN(PE$(JJ,1))                :rem 83
1470 IFLL>15THENPE$(JJ,1)=LEFT$(PE$(JJ,1),15)
                                                :rem 43
1480 KK=2:PRINTF1$ER1$F1$"PLANNED AMOUNT";:PRINTTA
    B(16)PE$(JJ,2);:EP$=PE$(JJ,2)              :rem 201
1490 INPUTPE$(JJ,2):P$=PE$(JJ,2):GOSUB3120:IFEF=1T
    HENPE$(JJ,2)=EP$:GOTO1480                  :rem 228
1500 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)="."THEN1520
                                                :rem 61
1510 PRINTF1$ER1$F1$;"ERROR--AMOUNT NOT IN X.XX FO
    RM":SYS828:FORD=1T01000                    :rem 177
1515 PE$(JJ,2)=EP$:GOSUB 5000:GOTO 1480        :rem 125
1520 PRINT"{CLR}[7 DOWN]":PRINTTAB(10)"ANOTHER ITE
    M? (Y/N)"                                    :rem 187
1530 GETA$:IFA$=" "THEN1530                    :rem 181
1540 IFA$="Y"THEN1320                          :rem 141
1550 IFA$<>"N"THEN1530                        :rem 195
1560 GOSUB2620:PRINT:GOSUB2730:PRINT:IFYR=0THENYR=
    Y                                            :rem 123
1570 GOSUB2990:YE=0:GOTO440                    :rem 113
1580 PRINT"{CLR}":POKEBO,2:POKEBA,2:POKE646,1:PRIN
    TTAB(15)"{DOWN}DELETIONS":FE=1:PRINT       :rem 133
1590 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
    T"OF REPORT DESIRED";M                    :rem 208
1600 GOSUB3040:IFE>19THEN440                  :rem 139
1610 LL=0:K=14:PRINT"{CLR}":PRINTTAB(15)"{DOWN}DEL
    ETIONS":PRINT                              :rem 170
1620 PRINT"ITEM NO. "TAB(10)L$(6)TAB(33)L$(5):PRINT
                                                :rem 95
1630 FORJ=1TOME-1:PRINTTAB(3)JTAB(10)PE$(J,1);
                                                :rem 221
1640 PRINTTAB(39-LEN(PE$(J,2)))PE$(J,2):LL=LL+1:IF
    LL=KTHEN1660                               :rem 149
1650 NEXT:IFJ=METHEN1700                      :rem 228
1660 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                                :rem 202
1670 GETA$:IFA$<>"C"THEN1670                  :rem 63
1680 LL=0:PRINT"{CLR}":PRINTTAB(15)"{DOWN}DELETION
    S":PRINT                                    :rem 138
1690 PRINT"ITEM NO. "TAB(10)L$(6)TAB(33)L$(5):PRINT
    :GOTO1650                                   :rem 165
1700 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY
    {SPACE}TO EXIT                             :rem 179
1710 GETA$:IFA$=" "THEN1710                  :rem 181
1720 IFA$<>"C"THEN440                        :rem 134
1730 PRINT                                     :rem 88
1740 A$="":PRINTF1$ER1$F1$;:INPUT"ITEM NO. TO DELE
    TE";A$                                       :rem 212
1745 JJ=VAL(A$):IFJJ<=0ORJJ>ME-1THEN1740     :rem 159

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1750 PRINT "{CLR}";PRINT"DELETE ITEM ";A$:PRINT
                                     :rem 133
1755 PRINTF1$;"{3 DOWN}{6 SPACES}PRESS ANY KEY TO
      {SPACE}CONTINUE"
                                     :rem 18
1756 GETR$:IFR$="" THEN 1756
                                     :rem 235
1760 PE$(JJ,1)="ZZZZZZZZZZZZZZ":PE$(JJ,2)="0.00":
      PRINT"{CLR}{7 DOWN}
1770 PRINTTAB(10)"ANOTHER ITEM? (Y/N)
                                     :rem 248
1780 GETA$:IFA$=""THEN1780
                                     :rem 173
1790 IFA$="Y"THENFE=FE+1:GOTO1610
                                     :rem 195
1800 IFA$<"N"THEN1780
                                     :rem 184
1810 GOSUB2620:PRINT:GOSUB2730:PRINT:ME=ME-FE:IFYR
      =0THENYR=Y
                                     :rem 200
1820 GOSUB2990:YE=0:GOTO440
                                     :rem 204
1830 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:Y
      F=0:YE=0
                                     :rem 111
1840 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPU
      T"OF REPORT DESIRED";M
                                     :rem 92
1850 GOSUB3040:IFE>19THEN360
                                     :rem 206
1860 MY=ME
                                     :rem 147
1870 IFYR=0THENYR=Y
                                     :rem 147
1880 YS$=STR$(YR):YSS=MID$(YS$,2)
                                     :rem 231
1890 DA$=M$(M)+" "+YS$:PN=201+10*M:GOTO1900:rem 25
1900 POKEBO,15:POKEBA,15:POKE646,0:K=13:GOSUB2050:
      FORJ=1TOMY-1:PRINTPE$(J,1);
                                     :rem 217
1910 PRINTTAB(23-LEN(PE$(J,2)))PE$(J,2);:PRINTTAB(
      32-LEN(PE$(J,3)))PE$(J,3);
                                     :rem 51
1920 PRINTTAB(39-LEN(PE$(J,4)))PE$(J,4):LL=LL+1:IF
      LL=KTHEN1940
                                     :rem 155
1930 NEXT:IFJ=>MYTHEN1970
                                     :rem 64
1940 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                     :rem 203
1950 GETA$:IFA$<"C"THEN1950
                                     :rem 65
1960 GOSUB2050:GOTO1930
                                     :rem 87
1970 PRINTTAB(15)"[8 T] [8 T] [6 T]":PRINTTAB(5)L$
      (17)"{2 SPACES}$";
                                     :rem 34
1980 PRINTTAB(23-LEN(PE$))PE$;:PRINTTAB(32-LEN(TE$
      ))TE$;
                                     :rem 92
1990 PRINTTAB(39-LEN(GE$))GE$
                                     :rem 177
2000 PRINT"{2 DOWN}HARD COPY (Y/N) ?
                                     :rem 83
2010 GETA$:IFA$=""THEN2010
                                     :rem 169
2020 IFA$="N"THEN360
                                     rem 79
2030 IFA$<"Y"THEN2010
                                     :rem 194
2040 GOTO2100
                                     :rem 194
2050 LL=0:PRINT "{CLR}":PRINTN$TAB(35)PN:PRINT "{UP}
      "DA$:PRINT
                                     :rem 221
2060 PRINTTAB(10)"PLANNED EXPENDITURES"
                                     :rem 196
2070 PRINTTAB(10)"[20 T]
                                     :rem 189
2080 PRINT"ACCOUNT"TAB(16)"PLANNED"TAB(26)"ACTUAL"
      TAB(35)" +/-
                                     :rem 68

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2090 FORL=1TO39:PRINT "【T】";:NEXT:PRINT:RETURN
:rem 190
2100 OPEN4,4,1:LB$=LEFT$(S$,56-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$ :rem 235
2110 PRINT#4,LA$;DA$;LF$;LF$ :rem 75
2120 LB$=LEFT$(S$,30):PRINT#4,LB$;"PLANNED EXPENDI
TURES";LF$ :rem 104
2130 PRINT#4,LB$;"【15 T】";LF$ :rem 133
2140 PRINT#4,LA$;"ACCOUNT{16 SPACES}PLANNED
{10 SPACES}ACTUAL{9 SPACES}+/-"; :rem 146
2150 PRINT#4,LF$;LA$;:FORL=1TO45:PRINT#4,"【T】";:NE
XT:PRINT#4,LF$;LF$;FORJ=1TOMY-1 :rem 242
2160 PRINT#4,LA$;PE$(J,1); :rem 177
2170 PC=30-LEN(PE$(J,1))-LEN(PE$(J,2)):GOSUB2280:P
RINT#4,RA$;PE$(J,2); :rem 201
2180 PC=16-LEN(PE$(J,3)):GOSUB2280:PRINT#4,RA$;PE$
(J,3); :rem 194
2190 PC=14-LEN(PE$(J,4)):GOSUB2280:PRINT#4,RA$;PE$
(J,4);LF$;NEXT:IFJ=MYTHEN2200 :rem 219
2200 LB$=LEFT$(S$,29):PRINT#4,LB$;"【8 T】{6 SPACES}
【8 T】{6 SPACES}【6 T】";LF$ :rem 207
2210 LB$=LEFT$(S$,15):PRINT#4,LB$;L$(17);"
{3 SPACES}$"; :rem 155
2220 PC=16-LEN(PE$):GOSUB2280:PRINT#4,RA$;PE$;
:rem 201
2230 PC=16-LEN(TE$):GOSUB2280:PRINT#4,RA$;TE$;
:rem 210
2240 PC=14-LEN(GE$):GOSUB2280:PRINT#4,RA$;GE$;LF$
:rem 109
2250 LB$=LEFT$(S$,29):PRINT#4,LB$;"【8 T】{6 SPACES}
【8 T】{6 SPACES}【6 T】";CR$; :rem 18
2260 PRINT#4,LB$;"DDDDDDDD{6 SPACES}DDDDDDDD
{6 SPACES}DDDDDD";LF$ :rem 212
2270 FORSP=1TO12:PRINT#4,LF$;NEXT:PRINT#4:CLOSE4:G
OTO360 :rem 80
2280 RA$=LEFT$(S$,PC):RETURN :rem 176
2290 POKEBO,7:POKEBA,7:POKE646,6:PRINT "{CLR}":PN=5
50:PRINTN$TAB(35)PN:PRINT "{UP}"DA$ :rem 163
2300 PRINT:PRINTTAB(8)"MINIMUM REQUIRED BALANCE
:rem 254
2310 PRINTTAB(8)"【24 T】 :rem 29
2320 PRINT"MONTH"TAB(13)"PLNINC"TAB(23)"PLNEXP"TAB
(31)"REQD BAL :rem 3
2330 FORL=1TO39:PRINT "【T】";:NEXT:PRINT:FORA=1TO12:
PRINTRB$(A,1); :rem 32
2340 PRINTTAB(20-LEN(RB$(A,2)))RB$(A,2);:PRINTTAB(
30-LEN(RB$(A,3)))RB$(A,3); :rem 4
2350 PRINTTAB(39-LEN(RB$(A,4)))RB$(A,4):NEXT:PRINT
TAB(11)"【9 T】{2 SPACES}【8 T】 :rem 91

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2360 PRINTTAB(2) L$(17) " $"; PRINTTAB(20-LEN(RI$)) R
    I$; PRINTTAB(30-LEN(RE$)) RE$           :rem 10
2370 PRINT "{DOWN}HARD COPY (Y/N) ?       :rem 76
2380 GETA$: IFA$=" " THEN 2380             :rem 189
2390 IFA$="N" THEN 360                     :rem 89
2400 IFA$ <> "Y" THEN 2380                 :rem 205
2410 GOTO 2420                             :rem 200
2420 OPEN 4,4,1: LB$=LEFT$(S$,56-LEN(N$)): PRINT#4,LA
    $;N$;LB$;PN;LF$                         :rem 240
2430 PRINT#4,LA$;DA$;LF$;LF$              :rem 80
2440 LB$=LEFT$(S$,28): PRINT#4,LB$;"MINIMUM REQUIRE
    D BALANCE";LF$                          :rem 53
2450 PRINT#4,LB$;" [18 T]";LF$;LF$       :rem 100
2460 PRINT#4,LA$;"MONTH{18 SPACES}PLNINC
    {10 SPACES}PLNEXP";                     :rem 104
2470 LB$=LEFT$(S$,7): PRINT#4,LB$;"REQD BAL";LF$
                                           :rem 157
2480 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
    RINT#4,LF$;LF$;FORA=1TO12              :rem 93
2490 PRINT#4,LA$;RB$(A,1);                :rem 173
2500 PC=30-LEN(RB$(A,1))-LEN(RB$(A,2)):GOSUB2610:P
    RINT#4,RA$;RB$(A,2);                   :rem 165
2510 PC=15-LEN(RB$(A,3)):GOSUB2610:PRINT#4,RA$;RB$
    (A,3);                                  :rem 167
2520 PC=15-LEN(RB$(A,4)):GOSUB2610:PRINT#4,RA$;RB$
    (A,4);LF$;NEXT                         :rem 217
2530 LB$=LEFT$(S$,29):PRINT#4,LB$;"[8 T]{4 SPACES}
    [8 T]";LF$                             :rem 3
2540 LB$=LEFT$(S$,19):PRINT#4,LB$;L$(17);"
    {2 SPACES}$";                          :rem 165
2550 PC=13-LEN(RI$):GOSUB2610:PRINT#4,RA$;RI$;
                                           :rem 213
2560 PC=15-LEN(RE$):GOSUB2610:PRINT#4,RA$;RE$;LF$
                                           :rem 134
2570 LB$=LEFT$(S$,29):PRINT#4,LB$;"[8 T]{4 SPACES}
    [8 T]";CR$;                            :rem 69
2580 PRINT#4,LB$;"DDDDDDDD{4 SPACES}DDDDDDDD";LF$
                                           :rem 65
2590 FORSP=1TO12:PRINT#4,LF$;NEXT:PRINT#4:CLOSE4
                                           :rem 73
2600 GOTO 360                              :rem 154
2610 RA$=LEFT$(S$,PC):RETURN               :rem 173
2620 PRINT:PRINT "{2 DOWN}SUMMING . .";PE$="":P1$=
    "0.00":FORJ=1TOME-1                   :rem 57
2630 P2$=PE$(J,2):GOSUB2640:P1$=P3$:PRINT ". .";NEX
    T:PE$=P3$:RETURN                       :rem 135
2640 TE=0:TL=0:TR=0:P$=P1$:GOSUB2700:TL=PL-1:TR=PR
    +1:P$=P2$:GOSUB2700                   :rem 185
2650 TL=TL+PL:TR=TR+PR:TE=TL+TR:IFTE<.0001ANDTE>-
    .0001 THEN P3$="0.00":RETURN          :rem 164

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2660 IFTE<0THENP3$=STR$(TE-.001)           :rem 104
2670 IFTE>0THENP3$=STR$(TE+.001)           :rem 105
2680 P3$=LEFT$(P3$,LEN(P3$)-1):IFLEFT$(P3$,1)=CHR$(
      (32)THENP3$=MID$(P3$,2)               :rem 36
2690 RETURN                                 :rem 177
2700 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$)   :rem 17
2710 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
      -1                                     :rem 175
2720 RETURN                                 :rem 171
2730 IFME=<2THEN2800                         :rem 145
2740 PRINT"NOW SORTING. .";FORJJ=1TOME-2:FORKK=JJ
      +1TOME-1                               :rem 125
2750 IFPE$(KK,1)>PE$(JJ,1)THEN2790         :rem 148
2760 SM$=PE$(KK,1):RM$=PE$(KK,2)         :rem 5
2770 PE$(KK,1)=PE$(JJ,1):PE$(KK,2)=PE$(JJ,2)
      :rem 118
2780 PE$(JJ,1)=SM$:PE$(JJ,2)=RM$         :rem 3
2790 NEXT:PRINT ". .";NEXT                 :rem 254
2800 RETURN                                 :rem 170
2810 PRINT"CLEARING THE WAY .";           :rem 28
2820 FORZ=1TON:FORK=1TO4:PE$(Z,K)="":NEXT:PRINT ".
      ";:NEXT                               :rem 25
2830 PRINT:RETURN                           :rem 116
2840 GOSUB2810:PRINT:PRINT"LOADING .";:OPEN15,8,15
      :F$="EXPENSE"+M$(M)                   :rem 145
2850 OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,Y,MY,M,TE$,N
      $:INPUT#15,E,E$                       :rem 177
2860 IFE>19THEN2980                         :rem 78
2870 JB=1:LL=0:FORJE=1TO6:INPUT#8,E$(JB,JE):NEXT
      :rem 204
2880 PE$(JB,1)=E$(JB,3):PE$(JB,2)=E$(JB,5):PE$(JB,
      3)="":PE$(JB,4)="                    :rem 248
2890 IFMY=<2THEN2980                         :rem 181
2900 R$=CHR$(13):FORJD=2TOMY-1             :rem 249
2910 INPUT#8,E1$,R$,E2$,R$,E3$,R$,E4$,R$,E5$,R$,E6
      $,R$:FORJC=1TOJB                     :rem 129
2920 P1$=PE$(JC,2):P2$=E5$                 :rem 95
2930 IFPE$(JC,1)=E3$THENGOSUB2640:PE$(JC,2)=P3$:LL
      =LL+1:JC=JB:NEXT:GOTO2970           :rem 9
2940 NEXT                                   :rem 14
2950 JB=JB+1:PE$(JB,1)=E3$:PE$(JB,2)=E5$:PE$(JB,3)
      ="":PE$(JB,4)="                     :rem 207
2960 PRINT ". .";                           :rem 11
2970 NEXT:MY=MY-LL                          :rem 153
2980 CLOSE8:CLOSE15:RETURN                  :rem 177
2990 PRINT"I'M SAVING . .";F$="PLNEXP"+M$(M):OPEN
      15,8,15:PRINT#15,"S0":"+F$         :rem 209
3000 CLOSE15:OPEN8,8,8,"0":"+F$+",S,W":PRINT#8,YR",
      "ME", "M", "PE$CHR$(13)             :rem 130
3010 FORJB=1TOME-1                          :rem 56

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3020 PRINT#8,PE$(JB,1),"PE$(JB,2)","PE$(JB,3)","P
    E$(JB,4)CHR$(13):PRINT". "; :rem 37
3030 NEXT:CLOSE8:GOSUB3090:RETURN :rem 141
3040 GOSUB2810:TE$="":GE$="":PRINT:PRINT"LOADING .
    ";:F$="PLNEXP"+M$(M) :rem 100
3050 OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,YR,ME,M,PE$:
    FORJB=1TOME-1 :rem 155
3060 INPUT#8,PE$(JB,1),PE$(JB,2),PE$(JB,3),PE$(JB,
    4):PRINT". ";:NEXT:CLOSE8 :rem 11
3070 GOSUB3090 :rem 22
3080 RETURN :rem 171
3090 E=0:OPEN15,8,15:INPUT#15,E,E$ :rem 159
3100 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
    EXT :rem 187
3110 CLOSE15:RETURN :rem 187
3120 EF=0:L1=LEN(P$):FORL=1TOL1:T$=MID$(P$,L,1):AB
    =ASC(T$):IFAB=46THENNEXT :rem 211
3130 IFAB<48ORAB>57THENL=L1:EF=1:PRINT:PRINTF1$ER1
    $F1$;"ERROR IN INPUT":SYS828 :rem 114
3140 GOSUB 5000:NEXT:RETURN :rem 160
3150 PRINT:PRINT"DATA MISSING":SYS828:FORD=1TO5000
    :NEXT:GOTO360 :rem 48
3160 A=12:NEXT :rem 36
3170 SYS828:FORD=1TO5000:NEXT:CLOSE8:CLOSE15:GOTO3
    60 :rem 42
3180 POKE0,15:POKEBA,15:POKE646,11 :rem 51
3190 PRINT"{CLR}":YE=0:IFYF=1THEN1900 :rem 69
3200 PRINT"{DOWN}PLANNED EXPENSE FOR ";YR$:MM=12:G
    OSUB3260 :rem 171
3210 PRINT"{DOWN}SAVING EXPENSE FOR YEAR FILE .";
    :rem 41
3220 F$="PLNEXP"+" "+YR$:OPEN15,8,15:PRINT#15,"S0:
    "+F$:CLOSE15:AA=VAL(YR$) :rem 222
3230 OPEN8,8,8,"0":"+F$+",S,W":PRINT#8,AA,"MY","PU
    $","CHR$(13):FORKK=1TOMY-1 :rem 235
3240 PRINT". ";:PRINT#8,PE$(KK,1),"PE$(KK,2)","PE
    $(KK,3)","PE$(KK,4)CHR$(13) :rem 81
3250 NEXT:CLOSE8:TE$="":GE$="":YF=1:PN=120:DA$=YR$
    :GOTO1900 :rem 239
3260 GOSUB2810:PRINT"{DOWN}LOADING:{2 SPACES}";:M=
    1 :rem 154
3270 F$="PLNEXP"+M$(M):PRINTM$(M),:OPEN15,8,15
    :rem 146
3280 OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,Y,MY,M,PE$:I
    NPUT#15,E,E$ :rem 13
3290 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
    EXT:CLOSE8:CLOSE15:GOTO3480 :rem 5
3300 JB=1:LL=0:INPUT#8,PE$(JB,1),PE$(JB,2),PE$(JB,
    3),PE$(JB,4) :rem 166
3310 IFMY=<2THEN3370 :rem 163

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3320 FORJD=2TOMY-1:INPUT#8,E1$,E2$,E3$,E4$:FORJC=1
    TOJB:P1$=PE$(JC,2):P2$=E2$           :rem 170
3330 IFPE$(JC,1)=E1$THENGOSUB2640:LL=LL+1:PE$(JC,2
    )=P3$:JC=JB:NEXT:GOTO3360           :rem 252
3340 NEXT                               :rem 9
3350 JB=JB+1:PE$(JB,1)=E1$:PE$(JB,2)=E2$:PE$(JB,3)
    =E3$:PE$(JB,4)=E4$                 :rem 152
3360 NEXT:MY=MY-LL                     :rem 147
3370 CLOSE8:CLOSE15:IFMM=1THEN3470     :rem 95
3380 OPEN15,8,15:FORM=2TOMM:F$="PLNEXP"+M$(M):OPEN
    8,8,8,"0:"+F$+",S,R               :rem 209
3390 INPUT#8,Y,ME,M,PE$:INPUT#15,E,E$:IFE>19THENM=
    MM:GOTO3460                         :rem 253
3400 PRINTM$(M),:FORJB=1TOME-1:INPUT#8,E1$,E2$,E3$
    ,E4$:FORJC=1TOMY-1                 :rem 67
3410 P1$=PE$(JC,2):P2$=E2$           :rem 87
3420 IFPE$(JC,1)=E1$THENGOSUB2640:PE$(JC,2)=P3$:JC
    =MY-1:NEXT:GOTO3450                 :rem 113
3430 NEXT:PE$(MY,1)=E1$:PE$(MY,2)=E2$:PE$(MY,3)=E3
    $:PE$(MY,4)=E4$                   :rem 141
3440 MY=MY+1                           :rem 176
3450 NEXT                               :rem 11
3460 CLOSE8:NEXT                       :rem 244
3470 CLOSE15:ME=MY:GOSUB2620:PRINT:PU$=PE$:GOSUB27
    30:PRINT                            :rem 234
3480 RETURN                             :rem 175
3490 POKEBO,2:POKEBA,2:POKE646,1:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(10)"COMPARATIVE REPORTS
                                           :rem 75
3500 PRINTTAB(8)"{2 DOWN}1. MONTH":PRINTTAB(8)"
    {DOWN}2. YEAR TO DATE":YF=0       :rem 20
3510 PRINTTAB(8)"{DOWN}3. PLANNED EXP MENU":PRINTT
    AB(10)"{4 DOWN}PRESS DESIRED NUMBER :rem 156
3520 GETA$:IFA$=""THEN3520             :rem 183
3530 IFA$<"1"ORA$>"3"THEN3520         :rem 36
3540 AA=VAL(A$):ONAAGOTO3550,3740,360 :rem 66
3550 POKEBO,9:POKEBA,9:POKE646,1:PRINT"{CLR}
    {3 DOWN}":YE=0                     :rem 191
3560 INPUT"MONTH NUMBER (2 DIGITS, 01 TO 12)":M:PR
    INT:GOSUB3040:IFE>19THEN3150       :rem 73
3570 GOSUB3650:IFE>19THEN3150         :rem 203
3580 TE$=TB$:P1$=PE$:P2$=NN$+TE$:GOSUB2640:GE$=P3$
    :MY=ME:IFYR=0THENYR=Y              :rem 114
3590 DA$=M$(M)+" "+YR$:PN=201+10*M:GOTO1900:rem 23
3600 IFPE$(JC,3)=""THENPE$(JC,3)=E5$:GOTO3630
                                           :rem 14
3610 P1$=PE$(JC,3):P2$=E5$:GOSUB2640:PE$(JC,3)=P3$
                                           :rem 247
3620 IFPE$(JC,2)=""THENPE$(JC,4)=NN$+PE$(JC,3):GOT
    O3640                               :rem 84

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3630 P1$=PE$(JC,2):P2$=NN$+PE$(JC,3):GOSUB2640:PE$
(JC,4)=P3$ :rem 60
3640 JC=ME-1:NEXT:GOTO3730 :rem 64
3650 OPEN15,8,15:F$="EXPENSE"+M$(M):OPEN8,8,8,"0:"
+F$+",S,R :rem 248
3660 INPUT#8,Y,MA,M,TB$,N$:INPUT#15,E,E$:IFE>19THE
NCLOSE8:CLOSE15:RETURN :rem 18
3670 FORJB=1TOMA-1:PRINT ". "; :rem 180
3680 R$=CHR$(13):INPUT#8,E1$,R$,E2$,R$,E3$,R$,E4$,
R$,E5$,R$,E6$,R$ :rem 222
3690 FORJC=1TOME-1:IFPE$(JC,1)=E3$THEN3600:rem 213
3700 IFPE$(JC,4)=" "THENPE$(JC,4)=PE$(JC,2) :rem 41
3710 NEXT :rem 10
3720 PE$(ME,1)=E3$:PE$(ME,2)=" ":PE$(ME,3)=E5$:PE$(
ME,4)=NN$+E5$:ME=ME+1 :rem 86
3730 NEXT:CLOSE8:CLOSE15:RETURN :rem 36
3740 POKEBO,7:POKEBA,7:POKE646,11 :rem 215
3750 E=0:PRINT "{CLR}" :rem 31
3760 INPUT"CURRENT MONTH (2 DIGITS)";MM:IFMN=MMAND
YE=1THEN1900 :rem 124
3770 INPUT"CURRENT DAY{3 SPACES}(2 DIGITS)";DD$:TE
$="" :rem 76
3780 DB$=DD$+" "+M$(MM)+" "+YR$:DA$="UP TO "+DB$
:rem 69
3790 PRINT"{CLR}":PRINT"{DOWN}COMPARE PLANNED EXPE
NSE TO" :rem 23
3800 PRINTDB$:GOSUB3260:IFE>19THEN3150 :rem 53
3810 FORM=1TOMM:GOSUB3650:IFE>19THENM=MM:NEXT:GOTO
3150 :rem 241
3820 IFTE$="" THENTE$=TB$:GOTO3840 :rem 191
3830 P1$=TE$:P2$=TB$:GOSUB2640:TE$=P3$ :rem 165
3840 NEXT:P1$=PE$:P2$=NN$+TE$:GOSUB2640:GE$=P3$:MY
=ME:YE=1:MN=MM:PN=121 :rem 70
3850 GOTO1900 :rem 211
3860 PRINT"{CLR}{2 DOWN}":POKEBO,7:POKEBA,7:POKE64
6,9 :rem 113
3870 E=0:PRINTTAB(8)"MINIMUM REQUIRED BALANCE
:rem 48
3880 OPEN15,8,15:PRINT:PRINT"LOADING PLANNED INCOM
E FOR:"FORA=1TO12 :rem 229
3890 F$="PLNINC"+M$(A):PRINTM$(A),:OPEN8,8,8,"0:"+
F$+",S,R :rem 204
3900 INPUT#8,Y,MI,M,PT$:INPUT#15,E,E$ :rem 196
3910 IFE>19THENPRINT:PRINT"PLANNED INCOME FOR MONT
H FILE MISSING":GOTO3160 :rem 177
3920 RB$(A,1)=M$(M):RB$(A,2)=PT$:CLOSE8:NEXT:DA$=Y
R$ :rem 248
3930 F$="PLNINC"+" "+YR$:PRINTF$:OPEN8,8,8,"0:"+F$
+",S,R":INPUT#8,Y,MI,RI$ :rem 182
3940 INPUT#15,E,E$ :rem 239

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3950 IFE>19THENPRINT:PRINT"NO PLANNED INCOME FOR Y
EAR FILE":GOTO3170 :rem 228
3960 CLOSE8:PRINT:PRINT"LOADING PLANNED EXPENDITUR
ES FOR:":FORA=1TO12 :rem 233
3970 F$="PLNEXP"+M$(A):PRINTM$(A),:OPENS,8,8,"0:"+
F$+",S,R :rem 222
3980 INPUT#8,Y,ME,M,PE$:INPUT#15,E,E$ :rem 185
3990 IFE>19THENPRINT:PRINT"PLANNED EXPENSE FOR MON
TH FILE MISSING":GOTO3160 :rem 22
4000 FORJC=1TO12:IFM$(M)=RB$(JC,1)THENRB$(JC,3)=PE
$ :rem 206
4010 NEXT:RB$(A,3)=PE$:CLOSE8:NEXT:F$="PLNEXP"+" "
+YR$:PRINTF$ :rem 212
4020 OPENS,8,8,"0:"+F$+",S,R":INPUT#8,Y,ME,RE$:INP
UT#15,E,E$ :rem 123
4030 IFE>19THENPRINT"NO PLANNED EXPENDITURES FOR Y
EAR FILE":GOTO3170 :rem 248
4040 CLOSE8:CLOSE15:P1$=RI$:P2$=NN$+RE$:GOSUB2640:
IFVAL(P3$)<0THEN4170 :rem 187
4050 PRINT:PRINT"COMPUTING .":FORA=1TO12:RB$(A,4)
="0.00":NEXT :rem 242
4060 FORA=1TO12:PRINT ".": :rem 218
4070 B=A-1:IFB=0THENB=12 :rem 114
4080 P1$=RB$(B,4):P2$=RB$(A,2):GOSUB2640:AV$=P3$
:rem 125
4090 P1$=RB$(A,3):P2$=RB$(A,4):GOSUB2640 :rem 165
4100 IFVAL(AV$)=>VAL(P3$)THENNEXT:GOTO2290 :rem 71
4110 P1$=P3$:P2$=NN$+RB$(A,2):GOSUB2640:RB$(B,4)=P
3$ :rem 78
4120 LC=B-1:IFLC=0THENLC=12 :rem 86
4130 P1$=RB$(LC,4):P2$=RB$(B,2):GOSUB2640:AV$=P3$:
P1$=RB$(B,3):P2$=RB$(B,4) :rem 85
4140 GOSUB2640:IFVAL(AV$)=>VAL(P3$)THENNEXT:GOTO22
90 :rem 209
4150 P1$=P3$:P2$=NN$+RB$(B,2):GOSUB2640:RB$(LC,4)=
P3$:B=B-1:IFB=0THENB=12 :rem 130
4160 GOTO4120 :rem 203
4170 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"{WHT}INSUFF
ICIENT INCOME":SYS828 :rem 76
4180 PRINT"{DOWN}REDUCE PLANNED EXPENDITURES BY $
{SPACE}"P3$ :rem 111
4190 FORD=1TO5000:NEXT:GOTO360 :rem 84
4200 POKEB,14:POKEBA,6:POKE646,14 :rem 255
4210 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
DISK":PRINT :rem 1
4220 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
ROGRAM DISK":PRINT:PRINT"{4 DOWN} :rem 100
4230 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 255
4240 GETA$:IFA$=""THEN4240 :rem 183
4250 IFA$<>"C"THEN4240 :rem 185

```

CHAPTER FOURTEEN

```
4260 POKE631,83:POKE632,89:POKE633,83      :rem 105
4270 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13                  :rem 75
4280 POKE198,9:NEW                          :rem 40
5000 REM FORMAT                             :rem 114
5010 PRINT F1$;ER1$;F2$:RETURN             :rem 6
```

BACK-UP FILES

Remember to use the name above for the program you place on the PAM master disk.

```
20 FORI=679TO734:READA:POKEI,A:NEXTI:BB=PEEK(44)+2
      7:POKE995,BB                          :rem 91
30 POKE998,PEEK(55):POKE999,PEEK(56):POKE55,0:POKE
      56,BB:CLR:BB=PEEK(995)                :rem 79
40 N=PEEK(999)-BB-1:BA=BB*256:MA=679:DIMBM%(35,24)
      :S1$=""                                :rem 133
50 S2$="INSERT DATA DISK, PRESS SPACE BAR":rem 163
60 S3$="INSERT BACK-UP DISK, PRESS SPACE BAR":FORJ
      =0TO7:TA(J)=2↑J:NEXT                  :rem 26
70 PRINT"{CLR}{6 DOWN}":POKE53280,0:POKE53281,0:PO
      KE646,1:PRINTTAB(14)"BACK-UP FILES"   :rem 20
80 PRINT:INPUT"YEAR";Y                      :rem 200
90 YR$=STR$(Y):OPEN1,8,15                  :rem 207
100 S1$=S2$:GOSUB610:INPUT#1,E,E$          :rem 148
110 IFE>19THENPRINT"WRONG DISK":CLOSE1:SYS828:GOTO
      100                                    :rem 134
120 IFIR$="f2"THENPRINT"WRONG DISK":SYS828:GOTO10
      0                                      :rem 212
130 I2$=IR$                                :rem 47
140 S1$=S3$:GOSUB610:IFI2$=IR$THENPRINT"WRONG DISK
      ":SYS828:GOTO140                      :rem 116
150 DN$="BACK-UP"+YR$:I1$="f2":PRINT#1,"N0:"+DN$+
      ", "+I1$                               :rem 102
160 INPUT#1,E,E$                            :rem 129
170 S1$=S2$:GOSUB610:IFIR$<>I2$THEN170     :rem 223
180 GOSUB450:T=TS:S=0:NU=1:T1=T:S1=S       :rem 7
190 PRINT#1,"I0":OPEN3,8,3,"#":PRINT"READING BLOCK
      #";                                   :rem 39
200 IFBM%(T1,S1)=0THENGOSUB360:NU=NU+1:IFNU>NTHEN2
      30                                     :rem 229
210 S1=S1+1:IFS1>20THENS1=0:T1=T1+1        :rem 30
220 IFT1<TF+1THEN200                        :rem 155
230 PRINT"{DOWN}":CLOSE3                   :rem 90
240 S1$=S3$:GOSUB610:IFIR$<>I1$THEN240     :rem 219
250 PRINT#1,"I0":OPEN3,8,3,"#":PRINT"WRITING BUFFE
      R #";:NU=1:T1=T:S1=S                 :rem 134
260 IFBM%(T1,S1)=0THENGOSUB400:NU=NU+1:IFNU>NTHEN2
      90                                     :rem 236
```

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```

270 S1=S1+1:IFS1>20THENS1=0:T1=T1+1           :rem 36
280 IFT1<TF+1THEN260                           :rem 167
290 PRINT"{DOWN}":CLOSE3:S=S1+1:IFS>20THENS=0:T1=T
    1+1                                           :rem 146
300 T=T1:IFT>TFTHEN330                         :rem 99
310 S1$=S2$:GOSUB610:IFIR$<>I2$THEN310        :rem 215
320 NU=1:T1=T:S1=S:GOTO190                     :rem 81
330 CLOSE1:POKE55,PEEK(998):POKE56,PEEK(999):CLR:P
    RINT"{CLR}{6 DOWN}"                         :rem 156
340 PRINTTAB(12)"BACKUP COMPLETE":SYS828      :rem 221
350 FORD=1TO1000:NEXT:GOTO650                 :rem 28
360 C=.:PRINT#1,"U1";3;0:T1;S1:PRINT#1,"B-P";3;0
                                                :rem 211
370 IFNU<>0THENPRINT"{3 SPACES}{3 LEFT}";RIGHT$(
    {2 SPACES}"+STR$(NU),3);"{3 LEFT}";       :rem 235
380 POKE996,PEEK(3):POKE997,PEEK(4):POKE4,BB+NU:SY
    SMA:POKE3,PEEK(996)                       :rem 247
390 POKE4,PEEK(997):RETURN                   :rem 100
400 C=.:PRINT#1,"B-A";0:T1;S1:PRINT#1,"B-P";3;0
                                                :rem 138
410 PRINT"{3 SPACES}{3 LEFT}";RIGHT$("{2 SPACES}"+
    STR$(NU),3);"{3 LEFT}";                   :rem 219
420 POKE996,PEEK(3):POKE997,PEEK(4):POKE4,BB+NU:SY
    SMA+3:POKE3,PEEK(996)                    :rem 80
430 POKE4,PEEK(997)                          :rem 69
440 PRINT#1,"U2";3;0:T1;S1:RETURN            :rem 226
450 PRINT"COMPUTING . . .":TS=1:TF=.:PRINT#1,"I0"
    :OPEN3,8,3,"#":S9=0                       :rem 159
460 NU=0:T1=18:S1=0:C0$=CHR$(.):GOSUB360:BY=4
                                                :rem 97
470 T%= (BY-4)/4+1:PRINT ". ";               :rem 209
480 IFPEEK(BA+BY)=. THENFORJ=.TO20:BM%(T%,J)=.:NEXT
    :BY=BY+4:GOTO530                          :rem 78
490 S=0                                        :rem 93
500 BY=BY+1:A0=PEEK(BA+BY):FORJ=.TO7:BM%(T%,S)=A0A
    NDTA(J):S=S+1:NEXT                        :rem 149
510 IFS<22THEN500                             :rem 220
520 BY=BY+1                                    :rem 102
530 ES=21:IFT%>17THENES=19                   :rem 38
540 IFT%>24THENES=18                         :rem 178
550 IFT%>30THENES=17                         :rem 175
560 FORJ=ESTO24:BM%(T%,J)=-1:NEXT:SM=.:FORJ=.TO20:
    IFBM%(T%,J)=. THENSM=SM+1                :rem 60
570 NEXT:S9=S9+SM:IFSM=.ANDTS=T%THENTS=TS+1:GOTO59
    0                                          :rem 96
580 IFSM<> . THENTF=T%                       :rem 243
590 IFBY<143THEN470                           :rem 102
600 CLOSE3:PRINT:PRINT"{DOWN}A TOTAL OF";S9;"BLOCK
    S TO COPY":RETURN                        :rem 120

```

CHAPTER FOURTEEN

```
610 FORB=1TOLEN(S1$):PRINTMID$(S1$,B,1);:FORZ=1TO3
5:NEXTZ,B:PRINT:SYS828 :rem 68
620 GETA$:IFA$<>"THEN620 :rem 144
630 OPEN2,8,0,"$0":FORJ=1TO26:GET#2,A$:NEXTJ:GET#2
,A$:GET#2,B$:IR$=A$+B$ :rem 85
640 CLOSE2:RETURN :rem 92
650 POKE53280,14:POKE53281,6:POKE646,14:PRINT"
{CLR}{6 DOWN}" :rem 201
660 PRINTTAB(10)"REMOVE BACK-UP DISK":PRINT
:rem 153
670 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT PR
OGRAM DISK":PRINT"{4 DOWN}" :rem 148
680 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 246
690 GETA$:IFA$="THEN690 :rem 97
700 IFA$<>"C"THEN690 :rem 90
710 POKE631,83:POKE632,89:POKE633,83 :rem 53
720 POKE634,53:POKE635,49:POKE636,48:POKE637,48:PO
KE638,48:POKE639,13 :rem 23
730 POKE198,9:NEW :rem 244
740 DATA76,173,2,76,198,2,162,3,32,198,255,160,0,1
32,3,32,207,255,145 :rem 123
750 DATA3,165,144,208,3,200,208,244,32,204,255,96,
162,3,32,201,255,160 :rem 154
760 DATA0,132,3,177,3,32,210,255,165,144,208,3,200
,208,244,32,204,255,96 :rem 252
```

ACCOUNT BALANCES

Remember to use the name above for the program you place on the PAM master disk.

```
20 DIML$(30),M$(12),FW$(40),IT$(10),DI$(10),BA$(9)
,BB$(9) :rem 60
30 DIMG$(9),TF$(9):M=1:C=0:NN$="-":CB=0:PN=0:BO=5
3280:BA=53281 :rem 249
40 DIMFW(40),IT(10),DI(10) :rem 118
50 LL$="":BA$="":P$="":P1$="":P2$="":P3$="":rem 86
60 B1$="":B2$="":B3$="":B4$="":B5$="":B6$=""
:rem 39
70 I1$="":I2$="":I3$="":I4$="":I5$="":I6$=""
:rem 82
80 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
=0:LC$="" :rem 1
90 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
0):LB$="":RA$="" :rem 66
100 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH"
:M$(4)="APRIL" :rem 114
110 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="A
UGUST" :rem 92
120 M$(9)="SEPTEMBER":M$(10)="OCTOBER" :rem 162
```

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FOURTEEN

```
130 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,3:P
    OKEBA,3:POKE646,1:PRINT"{CLR}{3 DOWN}":rem 137
140 PRINTTAB(12)"ACCOUNT BALANCES":FORD=1TO5000:NE
    XT rem 235
150 POKEBO,14:POKEBA,6:POKE646,14:PRINT"{CLR}
    {6 DOWN}" rem 211
160 PRINTTAB(10)"REMOVE PROGRAM DISK":PRINT
    rem 201
170 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
    TA DISK":PRINT:PRINT"{4 DOWN}" rem 90
180 PRINTTAB(9)"PRESS 'C' TO CONTINUE" rem 241
190 GETA$:IFA$<>"C"THEN190 rem 215
200 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
    {2 DOWN}" rem 130
210 PRINTTAB(12)"ACCOUNT BALANCES":PRINT:PRINT
    rem 195
220 PRINT"LOADING PERSONAL DATA ";F$="PERSDATA":O
    PEN8,8,8,"0":"+F$+",S,R" rem 220
230 INPUT#8,YR$,N$,N1$,N2$,N3$,N4$:PRINT".";
    rem 207
240 FORJ=1TO30:INPUT#8,L$(J):NEXTJ:PRINT".";:CLOS
    E8 rem 182
250 GOSUB1840:IFE>19THEN150 rem 95
260 F$="INCDATA":OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,
    F1,D1,I1:PRINT"."; rem 65
270 FORJ=1TO39 rem 71
280 INPUT#8,FW$(J),FW(J):NEXTJ:PRINT"."; rem 168
290 FORJ=1TO9:INPUT#8,IT$(J),IT(J):NEXTJ:PRINT"."
    rem 94
300 FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXTJ:PRINT"."
    ;:CLOSE8:GOSUB1840 rem 165
310 IFE>19THEN150 rem 213
320 POKEBO,4:POKEBA,4:POKE646,1:PRINT"{CLR}
    {4 DOWN}":PRINTTAB(12)"ACCOUNT BALANCES"
    rem 37
330 PRINTTAB(8)"{DOWN}1.{2 SPACES}JAN 1 BALANCES":
    PRINTTAB(8)"{DOWN}2.{2 SPACES}INDIVIDUAL ACCO
    UNTS" rem 159
340 PRINTTAB(8)"{DOWN}3.{2 SPACES}CURRENT BALANCES
    ":PRINTTAB(8)"{DOWN}4.{2 SPACES}MAIN MENU"
    rem 206
350 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER"
    rem 140
360 GETA$:IFA$=""THEN360 rem 85
370 IFA$<"1"ORA$>"4"THEN360 rem 195
380 AA=VAL(A$):ONAAGOTO480,390,930,1900 rem 167
390 POKEBO,14:POKEBA,14:POKE646,1:PRINT"{CLR}
    {2 DOWN}" rem 144
400 PRINTTAB(10)"INDIVIDUAL ACCOUNTS" rem 55
```

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```

410 PRINTTAB(6)"{DOWN}0.{2 SPACES}ACCOUNT BALANCES
    MENU":FORJ=1TO9:IFDI$(J)=" "THENGOTO430
                                     :rem 248
420 PRINTTAB(5)J"{LEFT}.{2 SPACES}"DI$(J) :rem 37
430 NEXTJ:PRINTTAB(10)"{2 DOWN}PRESS DESIRED NUMBE
    R" :rem 44
440 GETA$:IFA$(J)=" "THEN440 :rem 83
450 IFA$(J)<"0"ORA$(J)>"9"THEN440 :rem 197
460 AA=VAL(A$):IFAA=0THEN320 :rem 110
470 PRINT:INPUT"TOYDAY'S DATE: ";DA$:GOTO970:rem 128
480 POKEBO,11:POKEBA,11:POKE646,1:DA$="1 "+M$(1)+"
    "+YR$:PRINT"{CLR}{4 DOWN}" :rem 200
490 PRINTTAB(7)"ENTER DATA (E) OR VIEW (V)":PRINTT
    AB(12)"{4 DOWN}PRESS 'E' OR 'V'" :rem 189
500 GETA$:IFA$(J)=" "THEN500 :rem 77
510 IFA$(J)="E"THEN550 :rem 25
520 IFA$(J)<"V"THEN500 :rem 99
530 PRINT:GOSUB1600:GOSUB1840:IFE>19THEN320
                                     :rem 167
540 GOTO640 :rem 108
550 PRINT"{CLR}":PRINTN$:PRINT:PRINT"TYPE ACCOUNT
    {SPACE}BALANCES AS OF" :rem 186
560 PRINTDA$(J) OR 0.00":PRINT :rem 59
570 FORJ=1TO9:IFDI$(J)=" "THEN630 :rem 117
580 BB$(J)=DI$(J) :rem 105
590 PRINTBB$(J);:INPUT"{2 SPACES}$: ";BA$(J):P$=BA$(
    J) :rem 191
600 GOSUB1870:IFEF=1THEN590 :rem 117
610 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=" ".THEN630
                                     :rem 223
620 PRINT"ERROR--AMOUNT NOT IN X.XX FORM":SYS828:F
    ORD=1TO1000:NEXT:GOTO590 :rem 175
630 NEXTJ:GOSUB1410:GOSUB1530:IFE>19THEN320
                                     :rem 159
640 PRINT"{CLR}":IFCB=0THENPN=20 :rem 37
650 IFCB=1THENPN=21 :rem 138
660 PRINTN$TAB(36)PN:IFCB=0THENPRINT"{UP}"DA$(
    J) :rem 191
670 IFCB=1THENPRINT"{UP}AS OF ";DA$(J) :rem 189
680 IFCB=1THENPRINT:PRINTTAB(12)"CURRENT BALANCES"
    :GOTO700 :rem 216
690 PRINT:PRINTTAB(12)"ACCOUNT BALANCES" :rem 8
700 PRINTTAB(12)"[16 T]":PRINT:PRINT"ACCOUNT"TAB(3
    3)"AMOUNT" :rem 168
710 FORL=1TO39:PRINT"[T]";:NEXT:PRINT :rem 113
720 FORJ=1TO9:PRINTBB$(J)TAB(39-LEN(BA$(J)))BA$(J)
    :NEXTJ :rem 86
730 PRINTTAB(30)"[9 T]":PRINTTAB(25)"{2 SPACES}$"T
    AB(39-LEN(BA$(J)))BA$(J) :rem 174
740 PRINT:PRINT"HARD COPY? (Y/N)" :rem 243

```

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FOURTEEN

```

750 GETA$: IFA$=" " THEN 750 : rem 91
760 IFA$="N" THEN CB=0: GOTO 320 : rem 137
770 IFA$<>"Y" THEN 750 : rem 116
780 OPEN 4, 4, 1: LB$=LEFT$(S$, 57-LEN(N$)): PRINT#4, LA$
; N$; LB$; PN; LF$ : rem 200
790 IFCB=1 THEN PRINT#4, LA$; "AS OF "; DA$; LF$: rem 143
800 LB$=LEFT$(S$, 32) : rem 47
810 IFCB=1 THEN PRINT#4, LF$; LF$; LB$; "CURRENT BALANCE
S"; LF$: GOTO 830 : rem 200
820 PRINT#4, LA$; DA$; LF$; LF$: PRINT#4, LB$; "ACCOUNT B
ALANCES"; LF$ : rem 211
830 PRINT#4, LB$; "[12 T]"; LF$; LF$: PRINT#4, LA$; "ACCO
UNT"; : rem 36
840 LB$=LEFT$(S$, 47): PRINT#4, LB$; "AMOUNT"; LF$
: rem 121
850 PRINT#4, LA$; : FOR L=1 TO 45: PRINT#4, "[T]"; : NEXT: PR
INT#4, LF$; LF$ : rem 86
860 FOR J=1 TO 9: PRINT#4, LA$; BB$(J); : rem 205
870 RA$=LEFT$(S$, 60-LEN(BB$(J))-LEN(BA$(J))): PRINT
#4, RA$; BA$(J); LF$: NEXT J : rem 173
880 LB$=LEFT$(S$, 58): PRINT#4, LB$; "[9 T]"; LF$
: rem 102
890 LB$=LEFT$(S$, 42): PRINT#4, LB$; L$(17); "
{3 SPACES}$"; : rem 119
900 RA$=LEFT$(S$, 19-LEN(BA$)): PRINT#4, RA$; BA$; LF$
: rem 18
910 LB$=LEFT$(S$, 58): PRINT#4, LB$; "[9 T]"; CR$: PRINT
#4, LB$; "DDDDDDDD" : rem 194
920 FOR SP=1 TO 12: PRINT#4, LF$: NEXT: PRINT#4: CLOSE 4: CB
=0: GOTO 320 : rem 72
930 CB=1: PRINT: INPUT "TODAY'S DATE:"; DA$: FOR AA=1 TO 9
: IF DI$(AA)=" " THEN 950 : rem 35
940 POKE BA, 1+AA: POKE BO, 1+AA: GOSUB 980: BB$(AA)=DI$(A
A): BA$(AA)=B4$ : rem 185
950 NEXT AA: GOSUB 1410: F$="CURBAL": GOSUB 1540: IF E>19 T
HEN 320 : rem 187
960 SYS 828: GOTO 640 : rem 77
970 POKE BO, 4: POKE BA, 4: POKE 646, 1 : rem 114
980 PRINT "{CLR}{3 DOWN}": LL$=LEFT$(DI$(AA), 3): PRIN
TTAB(20-LEN(DI$(AA))/2) DI$(AA): PRINT : rem 204
990 GOSUB 1600: GOSUB 1650: PRINT: PRINT: P1$=B4$: P2$=B2
$: GOSUB 1480: B4$=P3$ : rem 167
1000 IFL$="CAS" OR LL$="CHE" THEN GOSUB 1720: P1$=B4$: P
2$=B5$: GOSUB 1480: B4$=P3$ : rem 56
1010 IFL$="CAS" OR LL$="CHE" THEN PRINT: PRINT: rem 150
1020 GOSUB 1820: FOR J=1 TO 9 : rem 195
1030 IFTG$(J)=LL$ THEN B3$=TF$(J) : rem 4
1040 NEXT J: P1$=B4$: P2$=B3$: GOSUB 1480: B4$=P3$
: rem 249

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1050 GOSUB1570:FORJ=1TO9:IFAG$(J)=LL$THENB6$=AF$(J
) :rem 31
1060 NEXTJ:P1$=B4$:P2$=B6$:GOSUB1480:B4$=P3$:IFCB=
1THENRETURN :rem 201
1070 PRINT"{CLR}":PN=510+AA:PRINTN$TAB(35)PN:PRINT
"{UP}ACCOUNT BALANCES" :rem 205
1080 PRINT"AS OF ";DA$ :rem 167
1090 FORL=1TO3:PRINT:NEXT:LG=LEN(DI$(AA))/2:PRINTT
AB(20-LG)DI$(AA) :rem 53
1100 PRINTTAB(20-LG):FORL=1TO2*LG:PRINT"[T]";:NEXT
:PRINT:PRINT"1 JAN BALANCE"; :rem 101
1110 PRINTTAB(39-LEN(B1$))B1$ :rem 111
1120 PRINT"DEPOSITS";:PRINTTAB(39-LEN(B2$))B2$
:rem 35
1130 IFL$="CAS"ORLL$="CHE"THENPRINT"EXPENDITURES"
TAB(39-LEN(B5$))B5$ :rem 221
1140 PRINT"TRANSFERS";:PRINTTAB(39-LEN(B3$))B3$:PR
INT"ADJUSTMENTS"; :rem 12
1150 PRINTTAB(39-LEN(B6$))B6$ :rem 125
1160 PRINTTAB(29)"[T]":PRINTTAB(5)"CURRENT BALA
NCE[4 SPACES]"; :rem 90
1170 PRINTTAB(39-LEN(B4$))B4$ :rem 123
1180 PRINT"{3 DOWN}HARD COPY? (Y/N)" :rem 142
1190 GETA$:IFA$=""THEN1190 :rem 185
1200 IFA$="N"THEN320 :rem 74
1210 IFA$<>"Y"THEN1190 :rem 201
1220 OPEN4,4,1:LB$=LEFT$(S$,55-LEN(N$)):PRINT#4,LA
$;N$;LB$;PN;LF$ :rem 236
1230 PRINT#4,LA$;"AS OF ";DA$;LF$:PRINT#4,LA$;"ACC
OUNT BALANCES";LF$;LF$ :rem 166
1240 LG=LEN(DI$(AA))/2:C=INT(1.5*LG):LB$=LEFT$(S$,
40-LG) :rem 131
1250 PRINT#4,LB$;DI$(AA);LF$ :rem 58
1260 PRINT#4,LB$;:FORL=1TOC:PRINT#4,"[T]";:NEXT
:rem 108
1270 PRINT#4,LF$;LF$:LC$="1 JAN BALANCE" :rem 223
1280 LB$=LEFT$(S$,59-LEN(LC$)-LEN(B1$)) :rem 111
1290 PRINT#4,LA$;LC$;LB$;B1$;LF$:LC$="DEPOSITS"
:rem 4
1300 LB$=LEFT$(S$,59-LEN(LC$)-LEN(B2$)):PRINT#4,LA
$;LC$;LB$;B2$;LF$ :rem 3
1310 LC$="EXPENDITURES":LB$=LEFT$(S$,59-LEN(LC$)-L
EN(B5$)) :rem 123
1320 IFL$="CAS"ORLL$="CHE"THENPRINT#4,LA$;LC$;LB$
;B5$;LF$ :rem 169
1330 LC$="TRANSFERS":LB$=LEFT$(S$,59-LEN(LC$)-LEN(
B3$)) :rem 147
1340 PRINT#4,LA$;LC$;LB$;B3$;LF$:LC$="ADJUSTMENTS"
:rem 233

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1350 LB$=LEFT$(S$,59-LEN(LC$)-LEN(B6$)):PRINT#4,LA
    $;LC$;LB$;B6$;LF$ :rem 16
1360 LB$=LEFT$(S$,56):PRINT#4,LB$;"[10 T]";LF$
    :rem 49
1370 LC$="CURRENT BALANCE{6 SPACES}$":LB$=LEFT$(S$
    ,30):PRINT#4,LB$;LC$; :rem 32
1380 LB$=LEFT$(S$,39-LEN(LC$)-LEN(B4$)):PRINT#4,LB
    $;B4$;LF$ :rem 51
1390 LB$=LEFT$(S$,56):PRINT#4,LB$;"[10 T]";CR$:PRI
    NT#4,LB$;"DDDDDDDDDD";LF$ :rem 75
1400 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
    OTO320 :rem 70
1410 TA=0:TL=0:TR=0:TA$="":FORJ=1TO9:P$=BA$(J):IFP
    $="":THEN1430 :rem 103
1420 GOSUB1450:TL=TL+PL:TR=TR+PR :rem 31
1430 NEXTJ:TA=TL+TR:IFTA=0THENBA$="0.00":RETURN
    :rem 200
1440 BA$=STR$(TA+.001):BA$=LEFT$(BA$,LEN(BA$)-1):R
    ETURN :rem 122
1450 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$) :rem 18
1460 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
    -1 :rem 176
1470 RETURN :rem 172
1480 TA=0:TL=0:TR=0:P$=P1$:GOSUB1450:TL=PL-1:TR=PR
    +1:P$=P2$:GOSUB1450 :rem 184
1490 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA=0THENP3$="0.0
    0":RETURN :rem 25
1500 IFTA<0THENP3$=STR$(TA-.001) :rem 88
1510 IFTA>0THENP3$=STR$(TA+.001) :rem 89
1520 P3$=LEFT$(P3$,LEN(P3$)-1):RETURN :rem 110
1530 F$="BALANCE" :rem 154
1540 OPEN15,8,15:PRINT#15,"S0:"+F$:CLOSE15:OPEN8,8
    ,8,"0:"+F$+",S,W" :rem 204
1550 PRINT#8,BA$,"" :rem 246
1560 FORJ=1TO9:PRINT#8,BA$(J),"BB$(J)",":NEXTJ:CL
    OSE8:GOSUB1840:RETURN :rem 70
1570 B6$="0.00":F$="ADJUSTMENTS":PRINT:PRINT"LOADI
    NG";F$ :rem 148
1580 OPEN8,8,8,"0:"+F$+",S,R":INPUT#8,MAD :rem 254
1590 FORJ=1TO9:INPUT#8,AG$(J),AF$(J):NEXTJ:CLOSE8:
    RETURN :rem 25
1600 F$="BALANCE":PRINT"LOADING";F$:OPEN8,8,8,"0:
    "+F$+",S,R":INPUT#8,BA$ :rem 133
1610 FORJ=1TO9:INPUT#8,I1$,I2$:IFLL$=LEFT$(I2$,3)T
    HENB1$=I1$:B4$=B1$ :rem 166
1620 IFCB=0THENBA$(J)=I1$:BB$(J)=I2$ :rem 239
1630 NEXTJ:CLOSE8:IFB4$=""THENB4$="0.00" :rem 39
1640 RETURN :rem 171
1650 B2$="0.00":PRINT:PRINT"LOADING DEPOSITS FOR "
    :OPEN15,8,15:FORM=1TO12 :rem 111

```

CHAPTER
FOURTEEN

```

1660 F$="INCOME"+M$(M):OPEN8,8,8,"0:"+F$+",S,R":IN
      PUT#8,YR,MAX,M,TA$,I1$           :rem 42
1670 INPUT#15,E,E$:IFE>19THENM=12:GOTO1710:rem 251
1680 PRINTM$(M),:FORJ=1TOMAX-1:INPUT#8,I1$,I2$,I3$
      ,I4$,I5$                          :rem 120
1690 IFI4$=LL$THENP2$=I5$:P1$=B2$:GOSUB1480:B2$=P3
      $                                  :rem 158
1700 NEXTJ                               :rem 81
1710 CLOSE8:NEXTM:CLOSE15:RETURN        :rem 109
1720 B5$="0.00":PRINT"LOADING EXPENDITURES FOR":OP
      EN15,8,15:FORM=1TOL2              :rem 222
1730 F$="EXPENSE"+M$(M):OPEN8,8,8,"0:"+F$+",S,R":I
      NPUT#8,YR,MAX,M,TE$,I1$          :rem 137
1740 INPUT#15,E,E$:IFE>19THENM=12:GOTO1800:rem 249
1750 PRINTM$(M),:FORJ=1TOMAX-1        :rem 85
1760 INPUT#8,I1$,CR$,I2$,CR$,I3$,CR$,I4$,CR$,I5$,C
      R$,I6$,CR$                        :rem 226
1770 IFI4$=LL$THENP2$=I5$:P1$=B5$:GOSUB1480:B5$=P3
      $                                  :rem 163
1780 IFLI$="CHE"ANDVAL(I4$)>0THENP2$=I5$:P1$=B5$:G
      OSUB1480:B5$=P3$                  :rem 45
1790 NEXTJ                               :rem 90
1800 CLOSE8:NEXTM:CLOSE15:IFLEFT$(B5$,1)=SP$THENB5
      $=MID$(B5$,2)                    :rem 7
1810 B5$=NN$+B5$:RETURN                :rem 66
1820 B3$="0.00":F$="TRANSFER":PRINT"LOADING ";F$:O
      PEN8,8,8,"0:"+F$+",S,R"         :rem 34
1830 INPUT#8,MTR:FORJ=1TO9:INPUT#8,TG$(J),TF$(J):N
      EXTJ:CLOSE8:RETURN                :rem 128
1840 E=0:OPEN15,8,15:INPUT#15,E,E$    :rem 160
1850 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
      EXT                                :rem 197
1860 CLOSE15:RETURN                     :rem 197
1870 EF=0:L1=LEN(P$):FORL=1TOLL:T$=MID$(P$,L,1):AB
      =ASC(T$):IFAB=46THENNEXT         :rem 221
1880 IFAB<48ORAB>57THENL=L1:EF=1:PRINT:PRINT"ERROR
      IN INPUT":SYS828                 :rem 31
1890 NEXT:RETURN                        :rem 43
1900 POKEBO,14:POKEBA,6:POKE646,14:PRINT"{CLR}
      {6 DOWN}"                        :rem 7
1910 PRINTTAB(12)"REMOVE DATA DISK":PRINT :rem 1
1920 PRINTTAB(18)"AND":PRINT           :rem 200
1930 PRINTTAB(10)"INSERT PROGRAM DISK":PRINT:PRINT
      "{4 DOWN}"                       :rem 85
1940 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 38
1950 GETA$:IFA$=""THEN1950             :rem 193
1960 IFA$<>"C"THEN1950                 :rem 195
1970 POKE631,83:POKE632,89:POKE633,83 :rem 110
1980 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13            :rem 80
1990 POKE198,9:NEW                      :rem 45

```

UNPAID BILLS

Remember to use the name above for the program you place on the PAM master disk.

```

20 DIML$(30),M$(12),FW$(40),IT$(10),DI$(10):DIMUP$(
  (100,2) :rem 158
30 DIMFW(40),IT(10),DI(10):N=100:UPB=1:PN=40:BO=53
  280:BA=53281:UP$="" :rem 94
40 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
  =0 :rem 143
50 S$="" :FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
  0):LB$="" :RA$="" :rem 62
60 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH":
  M$(4)="APRIL" :rem 71
70 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="AU
  GUST" :rem 49
75 F1$="{HOME}{15 DOWN}":ER1$="{43 SPACES}":rem 65
77 F2$="{HOME}{13 DOWN}":F3$=F2$+"{2 UP}":rem 188
80 M$(9)="SEPTEMBER":M$(10)="OCTOBER" :rem 119
90 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,6:PO
  KEBA,6:POKE646,1:PRINT"{CLR}{3 DOWN}" :rem 100
100 PRINTTAB(14)"UNPAID BILLS":FORD=1TO5000:NEXT
  :rem 218
110 POKEBO,14:POKEBA,6:POKE646,14:PRINT"{CLR}
  {6 DOWN}" :rem 207
120 PRINTTAB(10)"REMOVE PROGRAM DISK":PRINT
  :rem 197
130 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
  TA DISK":PRINT:PRINT"{4 DOWN}" :rem 86
140 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 237
150 GETA$:IFA$<>"C"THEN150 :rem 207
160 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
  {2 DOWN}":PRINTTAB(14)"UNPAID BILLS" :rem 86
170 PRINT:PRINT :rem 236
180 PRINT"LOADING PERSONALIZED DATA ";F$="PERSDAT
  A" :rem 198
190 OPEN8,8,8,"0:"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
  $,N3$,N4$:PRINT". "; :rem 27
200 FORJ=1TO30:INPUT#8,L$(J):NEXTJ:PRINT". ";:CLOS
  E8:GOSUB1590:IFE>19THEN110 :rem 178
210 F$="INCDATA":OPEN8,8,8,"0:"+F$+",S,R":INPUT#8,
  F1,D1,I1:PRINT". "; :rem 60
220 FORJ=1TO39 :rem 66
230 INPUT#8,FW$(J),FW(J):NEXTJ:PRINT". ";:FORJ=1TO
  9:INPUT#8,IT$(J),IT(J):NEXTJ :rem 44
240 PRINT". "; :rem 208
250 FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXTJ:PRINT". "
  ;:CLOSE8:GOSUB1590 :rem 171
260 IFE>19THEN110 :rem 213
270 POKEBO,6:POKEBA,6:POKE646,1:PRINT"{CLR}
  {3 DOWN}":PRINTTAB(14)"UNPAID BILLS" :rem 15

```

CHAPTER
FOURTEEN

```
280 PRINTTAB(14)"{2 DOWN}1.{2 SPACES}VIEW LIST":PR
  INTTAB(14)"{DOWN}2.{2 SPACES}ADD" :rem 194
290 PRINTTAB(14)"{DOWN}3.{2 SPACES}CORRECT"
  :rem 125
300 PRINTTAB(14)"{DOWN}4.{2 SPACES}DELETE":PRINTTA
  B(14)"{DOWN}5.{2 SPACES}MAIN MENU" :rem 125
310 PRINTTAB(10)"{2 DOWN}PRESS DESIRED NUMBER"
  :rem 102
320 GETA$:IFA$=""THEN320 :rem 77
330 IFA$<"1"ORA$>"5"THEN320 :rem 188
340 AA=VAL(A$):ONAAGOTO1040,350,530,820,1650
  :rem 140
350 PRINT"{CLR}{3 DOWN}":PRINTTAB(14)"UNPAID BILLS
  ":GOSUB1560:GOSUB 2000:PRINT"{CLR}{2 DOWN}"
  :rem 192
360 INPUT"ENTER CURRENT DATE:":DA$:FORJ=UPBTON
  :rem 202
370 PRINT:PRINT:INPUT"NAME OF CREDITOR":UP$(J,1)
  :rem 10
380 IFLEN(UP$(J,1))>28THENUP$(J,1)=LEFT$(UP$(J,1),
  28) :rem 231
390 PRINTF2$;:PU$=UP$(J,2):INPUT"AMOUNT OWED":UP$(
  J,2):P$=UP$(J,2) :rem 189
400 GOSUB1620:IFEF=1THEN390 :rem 106
410 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)="."THEN430
  :rem 219
420 PRINTF2$;ER1$;F2$;"ERROR--AMOUNT NOT IN X.XX F
  ORM":SYS828:FORD=1TO1000:NEXT :rem 113
425 UP$(J,2)=PU$:GOSUB 5000:GOTO 390 :rem 241
430 UPB=UPB+1:PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"AN
  OTHER ITEM? (Y/N)" :rem 60
440 GETA$:IFA$=""THEN440 :rem 83
450 IFA$="N"THENJ=N:GOTO480 :rem 111
460 IFA$<>"Y"THEN440 :rem 108
470 PRINT"{CLR}{3 DOWN}":PRINTTAB(14)"UNPAID BILLS
  " :rem 1
480 NEXTJ:PRINT"{DOWN}SORTING .":GOSUB1440:rem 83
490 PRINT:PRINT"{DOWN}ADDING UP ALL YOUR BILLS":PR
  INT"WHEW"; :rem 177
500 FORZ=1TO20:PRINT"!";:FORD=1TO35:NEXTD,Z:PRINT:
  GOSUB1380:GOSUB1520 :rem 160
510 IFE>19THEN270 :rem 218
520 GOTO1060 :rem 151
530 PRINT"{CLR}":POKEBO,9:POKEBA,9:POKE646,1:PRINT
  "UNPAID BILLS":PRINT :rem 27
540 PRINTTAB(15)"CORRECTIONS":PRINT :rem 10
550 GOSUB1560:GOSUB1590:IFE>19THEN270 :rem 237
560 LL=0:KK=14:PRINT"{CLR}":PRINT"UNPAID BILLS":PR
  INT :rem 185
570 PRINTTAB(15)"CORRECTIONS":PRINT :rem 13
```

CHAPTER
FOURTEEN

```

580 PRINT"ITEM NO.{2 SPACES}NAME OF CREDITOR":PRIN
    T:FORJ=1TOUPB-1                                :rem 2
590 PRINTJTAB(10)UP$(J,1)                          :rem 191
600 LL=LL+1:IFLL=>KKTHEN620                         :rem 152
610 NEXTJ:IFJ=>UPBTHEN670                          :rem 97
620 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE"
                                                    :rem 183
630 GETA$:IFA$<>"C"THEN630                          :rem 213
640 LL=0:PRINT"{CLR}":PRINTTAB(16)"{DOWN}CORRECTIO
    NS":PRINT                                        :rem 250
650 PRINT"ITEM NO.{2 SPACES}NAME OF CREDITOR":PRIN
    T                                                :rem 63
660 GOTO610                                          :rem 108
670 PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO CORRECT";
    A$                                              :rem 90
680 JJ=VAL(A$):IFJJ<=0ORJJ>UPB-1THEN670           :rem 146
690 PRINT"{CLR}":PRINT"CORRECT ITEM ";A$:PRINT
                                                    :rem 182
700 PRINT"PRESS RETURN IF NO CHANGE:":PRINT:PRINT
                                                    :rem 111
710 PRINT"NAME OF CREDITOR:":PRINTUP$(JJ,1);:INPUT
    UP$(JJ,1)                                       :rem 151
720 PU$=UP$(JJ,2):PRINTF2$"AMOUNT OWED
    {SHIFT-SPACE}"UP$(JJ,2);:INPUTUP$(JJ,2):P$=UP$
    (JJ,2)                                          :rem 9
730 GOSUB1620:IFEFE=1THENUP$(JJ,2)=PU$:GOTO720
                                                    :rem 242
740 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN760
                                                    :rem 231
750 PRINTF2$;ER1$;F2$;"ERROR-AMOUNT NOT IN X.XX FO
    RM":SYS828:FORD=1TO1000:NEXT                   :rem 74
755 UP$(JJ,2)=PU$:GOSUB 5000:GOTO 720              :rem 62
760 PRINT"{CLR}{7 DOWN}":PRINTTAB(10)"ANOTHER ITEM
    ? (Y/N)"                                        :rem 178
770 GETA$:IFA$=""THEN770                          :rem 95
780 IFA$="Y"THEN560                                :rem 55
790 IFA$<>"N"THEN770                              :rem 109
800 GOSUB1440:GOSUB1380:GOSUB1520:IFE>19THEN270
                                                    :rem 103
810 GOTO270                                         :rem 107
820 PRINT"{CLR}":POKEBO,2:POKEBA,2:POKE646,1:PRINT
    "UNPAID BILLS":PRINT                          :rem 15
830 PRINTTAB(16)"DELETIONS":PRINT                 :rem 105
840 GOSUB1560:GOSUB1590:IFE>19THEN270             :rem 239
850 LL=0:K=14:PRINT"{CLR}":PRINT"UNPAID BILLS":PRI
    NT:PRINTTAB(16)"DELETIONS":PRINT             :rem 120
860 PRINT"ITEM NO."TAB(5)"NAME OF CREDITOR":PRINT:
    FORJ=1TOUPB-1                                  :rem 164
870 PRINTJTAB(5)UP$(J,1)                          :rem 148
880 LL=LL+1:IFLL=>KTHEN900                         :rem 88

```

CHAPTER
FOURTEEN

```

890 NEXTJ:IFJ=>UPBTHEN950 :rem 108
900 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 184
910 GETA$:IFA$<>"C"THEN910 :rem 215
920 LL=0:PRINT"{CLR}":PRINTTAB(16)"{DOWN}DELETIONS :rem 87
";PRINT
930 PRINT"ITEM NO."TAB(5)"NAME OF CREDITOR":PRINT :rem 225
:rem 119
940 GOTO890 :rem 119
950 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY T :rem 171
O EXIT"
960 GETA$:IFA$=" "THEN960 :rem 97
970 IFA$<>"C"THEN270 :rem 93
980 PRINTF1$;ER1$;F1$;:INPUT"ITEM NO. TO DELETE";A :rem 255
$
990 JJ=VAL(A$):IF JJ<=0 OR JJ>UPB-1 THEN980 :rem 154
1000 PRINT"{CLR}":PRINT"DELETE ITEM ";A$:PRINT :rem 121
:rem 121
1010 UP$(JJ,1)="ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ :UP$(JJ, :rem 157
2)="0.00"
1015 PRINT F1$;"{3 DOWN}{6 SPACES}PRESS ANY KEY TO :rem 7
CONTINUE"
1016 GETR$:IFR$=" " THEN 1016 :rem 213
1020 PRINT:PRINT"{3 DOWN}SORTING . .";:GOSUB1440:U :rem 121
PB=UPB-1:GOSUB1380:GOSUB1520
1030 GOTO270 :rem 150
1040 PRINT"{CLR}":POKEBO,6:POKEBA,6:POKE646,1:PRIN :rem 207
T:PRINTTAB(14)"UNPAID BILLS"
1050 GOSUB1560:GOSUB1590:IFE>19THEN270 :rem 25
1060 K=14:GOSUB1340:FORJ=1TOUPB-1 :rem 247
1070 IFLEN(UP$(J,1))>28THENUP$(J,1)=LEFT$(UP$(J,1) :rem 20
,28)
1080 PRINTUP$(J,1)TAB(39-LEN(UP$(J,2)))UP$(J,2):LL :rem 167
=LL+1:IFLL>KTHEN1100
1090 NEXTJ:IFJ=>UPBTHEN1130 :rem 188
1100 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 225
:rem 41
1110 GETA$:IFA$<>"C"THEN1110 :rem 41
1120 GOSUB1340:GOTO1090 :rem 73
1130 PRINTTAB(29)"[10 T]" :rem 135
1140 PRINTTAB(10)"TOTAL OWED{4 SPACES}$";:PRINTTAB :rem 124
(39-LEN(UP$))UP$
1150 PRINT:PRINT"HARD COPY? (Y/N)" :rem 31
1160 GETA$:IFA$=" "THEN1160 :rem 179
1170 IFA$="Y"THEN1200 :rem 137
1180 IFA$<>"N"THEN1160 :rem 193
1190 GOTO270 :rem 157
1200 OPEN4,4,1:LB$=LEFT$(S$,57-LEN(N$)):PRINT#4,LA :rem 236
$;N$;LB$;PN;LF$

```

CHAPTER
FOURTEEN

```

1210 PRINT#4,LA$;DA$;LF$;LF$:LB$=LEFT$(S$,34):PRIN
T#4,LB$;"UNPAID BILLS";LF$ :rem 193
1220 PRINT#4,LB$;"[9 T]";LF$;LF$:PRINT#4,LA$;"NAME
OF CREDITOR"; :rem 106
1230 LB$=LEFT$(S$,38):PRINT#4,LB$;"AMOUNT";LF$
:rem 163
1240 PRINT#4,LA$;;FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$:FORJ=1TOUPB-1 :rem 65
1250 PRINT#4,LA$;UP$(J,1); :rem 192
1260 LB$=LEFT$(S$,60-LEN(UP$(J,1))-LEN(UP$(J,2)))
:rem 158
1270 PRINT#4,LB$;UP$(J,2);LF$:NEXTJ :rem 61
1280 LB$=LEFT$(S$,48):PRINT#4,LB$,"[9 T]";LF$
:rem 129
1290 LB$=LEFT$(S$,40):PRINT#4,LB$;"TOTAL OWED
{4 SPACES}$"; :rem 239
1300 RA$=LEFT$(S$,15-LEN(UP$)):PRINT#4,RA$;UP$;LF$
:rem 125
1310 LB$=LEFT$(S$,58):PRINT#4,LB$;"[9 T]";CR$:PRIN
T#4,LB$;"DDDDDDDD";LF$ :rem 222
1320 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO270 :rem 75
1330 PRINTTAB(4)"{4 DOWN}PRESS 'M' TO RETURN TO MA
IN MENU" :rem 224
1340 LL=0:PRINT"{CLR}":PRINTNTAB(36)PN:PRINT"{UP}
"DA$:PRINT :rem 223
1350 PRINTTAB(14)"UNPAID BILLS" :rem 94
1360 PRINTTAB(14)"[12 T]":PRINT"NAME OF CREDITOR"
TAB(33)"AMOUNT" :rem 143
1370 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
:rem 190
1380 TA=0:TL=0:TR=0:TA$="":FORJ=1TOUPB-1:P$=UP$(J,
2):GOSUB1410 :rem 196
1390 TL=TL+PL:TR=TR+PR:NEXTJ:TA=TL+TR:IFTA=0THENUP
$="0.00":RETURN :rem 253
1400 UP$=STR$(TA+.001):UP$=LEFT$(UP$,LEN(UP$)-1):R
ETURN :rem 254
1410 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$) :rem 14
1420 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
-1 :rem 172
1430 RETURN :rem 168
1440 IFUPB=<2THEN1510 :rem 224
1450 PRINT:PRINT"{3 DOWN}SORTING . .";:FORJJ=1TOUP
B-2:FORKK=JJ+1TOUPB-1 :rem 42
1460 IFUP$(KK,1)>UP$(JJ,1)THEN1500 :rem 165
1470 SM$=UP$(KK,1):RM$=UP$(KK,2) :rem 34
1480 UP$(KK,1)=UP$(JJ,1):UP$(KK,2)=UP$(JJ,2)
:rem 179
1490 UP$(JJ,1)=SM$:UP$(JJ,2)=RM$ :rem 32

```

CHAPTER FOURTEEN

```
1500 NEXTKK:NEXTJJ                :rem 168
1510 RETURN                        :rem 167
1520 F$="UNPAID BILLS":OPEN15,8,15:PRINT#15,"S0:"+
    F$:CLOSE15:PRINT              :rem 161
1530 PRINT"SAVING ";F$            :rem 7
1540 OPEN8,8,8,"0:"+F$+",S,W":PRINT#8,UP$, "UPB", "
    DA$", ":FORJ=1TOUPB-1        :rem 148
1550 PRINT#8,UP$(J,1)", "UP$(J,2)", ":NEXTJ:CLOSE8:G
    OSUB1590:RETURN               :rem 144
1560 F$="UNPAID BILLS":PRINT:PRINT"LOADING ";F$:OP
    EN8,8,8,"0:"+F$+",S,R"      :rem 170
1570 INPUT#8,UP$,UPB,DA$:FORJ=1TOUPB-1:INPUT#8,UP$
    (J,1),UP$(J,2):NEXTJ:CLOSE8 :rem 1
1580 RETURN                        :rem 174
1590 E=0:OPEN15,8,15:INPUT#15,E,E$:IFE>19THENPRINT
    :PRINTE$:SYS828              :rem 31
1600 FORD=1TO5000:NEXT           :rem 65
1610 CLOSE15:RETURN              :rem 190
1620 EF=0:L1=LEN(P$):FORL=1TOLL:T$=MID$(P$,L,1):AB
    =ASC(T$):IFAB=46THENNEXT     :rem 214
1630 IFAB<48ORAB>57THENL=L1:EF=1:PRINTF2$;ERL$;F2$
    ;"ERROR IN INPUT":SYS828     :rem 38
1640 GOSUB 5000:NEXT:RETURN      :rem 163
1650 POKEBO,14:POKEBA,6:POKE646,14:PRINT"{CLR}
    {6 DOWN}"                    :rem 9
1660 PRINTTAB(12)"REMOVE DATA DISK":PRINT :rem 3
1670 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
    ROGRAM DISK"                 :rem 118
1680 PRINT:PRINT"{4 DOWN}"      :rem 171
1690 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 40
1700 GETA$:IFA$="THEN1700       :rem 179
1710 IFA$<>"C"THEN1700         :rem 181
1720 POKE631,83:POKE632,89:POKE633,83 :rem 103
1730 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
    OKE638,48:POKE639,13        :rem 73
1740 POKE198,9:NEW               :rem 38
2000 OPEN 15,8,15,"I0":CLOSE15:RETURN :rem 105
5000 REM FORMAT                  :rem 114
5010 PRINT F1$;ERL$;F2$;ERL$;F3$:RETURN :rem 5
```

STMNT OF I&E

Remember to use the name above for the program you place on the PAM master disk.

```
20 DIMFW(40),NE(60),DE(25),OE(15),CE(40),IT(10),DI
    (10)                          :rem 55
30 N=100:K=13:YP=0:BO=53280:BA=53281 :rem 252
40 E1=0:E2=0:E3=0:E4=0:F1=0:D1=0:I1=0:AA=0:Y=0:YR=
    0:PN=0                          :rem 191
```

```

50 MA=0:MY=0:M=0:LL=0:LK=0:E=0:TA=0:TL=0:TR=0:PL=0
   :PR=0:LJ=0                               :rem 163
60 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
   =0                                         :rem 145
70 S$="" :FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
   0):LB$="" :RA$=""                          :rem 30
80 A$="" :D$="" :F$="" :YR$="" :N$="" :N1$="" :N2$="" :N3
   $="" :N4$=""                               :rem 169
90 TA$="" :TE$="" :TX$="" :TY$="" :NN$="" :SD$=""
                                           :rem 46
100 E$="" :E1$="" :E2$="" :E3$="" :E4$="" :E5$="" :E6$=""
                                           :rem 102
110 I1$="" :I2$="" :I3$="" :I4$="" :I5$=""      :rem 253
120 P$="" :P1$="" :P2$="" :P3$="" :PL$="" :PR$=""
                                           :rem 133
130 DIML$(30),M$(12),I$(100,5),E$(100,6)      :rem 152
140 DIMFW$(40),NE$(60),DE$(25),OE$(15),CE$(40),IT$
   (10),DI$(10)                              :rem 102
150 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH"
   :M$(4)="APRIL                             :rem 85
160 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="A
   UGUST                                       :rem 63
170 M$(9)="SEPTEMBER":M$(10)="OCTOBER         :rem 133
180 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,5:P
   OKEBA,5:POKE646,1                          :rem 193
190 PRINT"{CLR}{3 DOWN}":PRINTTAB(4)"STATEMENT OF
   {SPACE}INCOME AND EXPENSE":PRINT:PRINT :rem 22
200 FORD=1TO5000:NEXT                          :rem 12
210 POKEBO,14:POKEBA,6:POKE646,14           :rem 204
220 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
   AM DISK":PRINT                             :rem 202
230 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT DA
   TA DISK":PRINT"{4 DOWN}                   :rem 108
240 PRINTTAB(9)"PRESS 'C' TO CONTINUE       :rem 204
250 GETA$:IFA$<>"C"THEN250                   :rem 209
260 POKEBO,5:POKEBA,5:POKE646,1:PRINT"{CLR}
   {3 DOWN}                                   :rem 27
270 PRINTTAB(4)"STATEMENT OF INCOME AND EXPENSE":P
   RINT:PRINT                                  :rem 68
280 PRINT"LOADING PERSONAL DATA .":F$="PERSDATA
                                           :rem 167
290 OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
   $,N3$,N4$:PRINT ".":                      :rem 28
300 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT ".":CLOSE
   8:GOSUB1970:IFE>19THEN210                 :rem 108
310 F$="INCDATA":OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,
   F1,D1,I1:PRINT ".":                      :rem 61
320 FORJ=1TO39:INPUT#8,FW$(J),FW(J):NEXT:PRINT ".
   "                                           :rem 65
;
```

CHAPTER
FOURTEEN

```
330 FORJ=1TO9:INPUT#8,IT$(J),IT(J):NEXT :rem 155
340 PRINT".":FORJ=1TO9:INPUT#8,DI$(J),DI(J):NEXT
:PRINT".":CLOSE8:GOSUB1970 :rem 215
350 IFE>19THEN210 :rem 214
360 F$="EXPDATA":OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,
E1,E2,E3,E4:PRINT".": :rem 249
370 FORJ=1TO59:INPUT#8,NE$(J),NE(J):NEXT:PRINT".":
; :rem 52
380 FORJ=1TO25:INPUT#8,DE$(J),DE(J):NEXT :rem 166
390 PRINT".":FORJ=1TO15:INPUT#8,OE$(J),OE(J):NEX
T:PRINT".":FORJ=1TO39 :rem 140
400 INPUT#8,CE$(J),CE(J):NEXT:PRINT".":CLOSE8:GO
SUB1970:IFE>19THEN210 :rem 25
410 POKEBO,5:POKEBA,5:POKE646,1:PRINT"{CLR}
{3 DOWN} :rem 24
420 PRINTTAB(4)"STATEMENT OF INCOME AND EXPENSE":P
RINT:PRINT :rem 65
430 PRINTTAB(13)"{DOWN}1. MONTH" :rem 234
440 PRINTTAB(13)"{DOWN}2. YEAR TO DATE":PRINTTAB(1
3)"{DOWN}3. MAIN MENU :rem 153
450 PRINTTAB(10)"{3 DOWN}PRESS DESIRED NUMBER
:rem 90
460 GETA$:IFA$=""THEN460 :rem 87
470 IFA$<"1"ORA$>"3"THEN460 :rem 196
480 AA=VAL(A$):ONAAGOTO770,490,2000 :rem 219
490 POKEBO,2:POKEBA,2:POKE646,1:SYS828:PRINT"{CLR}
:rem 194
500 PRINT"STATEMENT OF INCOME AND EXPENSE FOR YEAR
TO DATE.":PRINT:PRINT :rem 235
510 PRINT"THIS REPORT WILL NOT BE ACCURATE UNLESS
:rem 43
520 PRINT"THE FOLLOWING ARE UP TO DATE.":PRINT:PRI
NT :rem 0
530 PRINTTAB(5)"ROUTINE{12 SPACES}OPTION":PRINT
:rem 140
540 PRINTTAB(5)"INCOME{13 SPACES}YEAR TO DATE
:rem 82
550 PRINTTAB(5)"EXPENSE{12 SPACES}YEAR TO DATE":PR
INT:PRINT :rem 96
560 PRINT"ARE THESE FILES UP TO DATE? (Y/N)":PRINT
:rem 195
570 PRINT"PRESSING 'N' WILL RETURN YOU TO THE MAIN
MENU; PRESS 'Y' TO CONTINUE. :rem 234
580 GETA$:IFA$=""THEN580 :rem 93
590 IFA$="N"THEN2000 :rem 82
600 IFA$<>"Y"THEN580 :rem 109
610 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11:YP
=1 :rem 237
620 PRINTTAB(6)"STATEMENT OF INCOME AND EXPENSE":P
RINT:PRINT:PRINT :rem 12
```

CHAPTER
FOURTEEN

```

630 PRINT:INPUT"TOYDAY'S DATE";D$:E1$="LOADING INCO
ME .":PRINT :rem 243
640 FORB=1TOLEN(E1$):PRINTMID$(E1$,B,1);:FORZ=1TO3
5:NEXT:NEXT :rem 58
650 F$="INCOME"+" "+YR$ :rem 170
660 OPENS,8,8,"0:"+F$+",S,R":INPUT#8,YR,MA,TA$,N$:
FORKK=1TOMA-1:PRINT ".": :rem 10
670 INPUT#8,I$(KK,2),I$(KK,3),I$(KK,4),I$(KK,5):NE
XT:CLOSES :rem 103
680 GOSUB1970:IFE>19THEN410 :rem 105
690 E1$="LOADING EXPENSE .":PRINT :rem 197
700 FORB=1TOLEN(E1$):PRINTMID$(E1$,B,1);:FORZ=1TO3
5:NEXT:NEXT :rem 55
710 F$="EXPENSE"+" "+YR$ :rem 4
720 OPENS,8,8,"0:"+F$+",S,R":INPUT#8,YR,MY,TE$,N$:
FORJB=1TOMY-1 :rem 189
730 INPUT#8,E$(JB,2),E$(JB,3),E$(JB,4),E$(JB,5),E$
(JB,6) :rem 159
740 PRINT ".":NEXT:CLOSES :rem 54
750 GOSUB1970:IFE>19THEN410 :rem 103
760 GOTO1050 :rem 156
770 PRINT"{CLR}":POKEBO,15:POKEBA,15:POKE646,11
:rem 163
780 PRINTTAB(6)"STATEMENT OF INCOME AND EXPENSE":P
RINT:PRINT :rem 76
790 PRINT"MONTH NUMBER (2 DIGITS, 01 TO 12)":INPUT
"OF REPORT DESIRED";M :rem 161
800 PRINT:F$="INCOME"+M$(M):E1$="LOADING INCOME FO
R "+M$(M) :rem 110
810 FORB=1TOLEN(E1$):PRINTMID$(E1$,B,1);:FORZ=1TO3
5:NEXT:NEXT:PRINT :rem 0
820 OPENS,8,8,"0:"+F$+",S,R" :rem 167
830 INPUT#8,YR,MA,M,TA$,N$:JB=1:LL=0 :rem 134
840 INPUT#8,I$(JB,1),I$(JB,2),I$(JB,3),I$(JB,4),I$
(JB,5):IFMA=<2THEN900 :rem 122
850 FORJD=2TOMA-1:INPUT#8,I1$,I2$,I3$,I4$,I5$:FORJ
C=1TOJB :rem 124
860 IFI$(JC,3)=I3$THENGOSUB1540:LL=LL+1:JC=JB:NEXT
:GOTO890 :rem 77
870 NEXT :rem 222
880 JB=JB+1:I$(JB,1)=I1$:I$(JB,2)=I2$:I$(JB,3)=I3$
:I$(JB,4)=I4$:I$(JB,5)=I5$ :rem 17
890 NEXT:MA=MA-LL :rem 56
900 CLOSES:GOSUB1970:IFE>19THEN410 :rem 76
910 F$="EXPENSE"+M$(M):E1$="LOADING EXPENSE FOR "+
M$(M) :rem 99
920 FORB=1TOLEN(E1$):PRINTMID$(E1$,B,1);:FORZ=1TO3
5:NEXT:NEXT :rem 59
930 OPENS,8,8,"0:"+F$+",S,R" :rem 169

```


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```

940 INPUT#8,YR,MY,M,TE$,N$:JB=1:LJ=0:FORJE=1TO6:IN
    PUT#8,E$(JB,JE):NEXT                :rem 100
950 IFMY=<2THEN1030                      :rem 113
960 FORJD=2TOMY-1                        :rem 42
970 INPUT#8,E1$,CR$,E2$,CR$,E3$,CR$,E4$,CR$,E5$,CR
    $,E6$,CR$:FORJC=1TOJB              :rem 231
980 IFE$(JC,6)=E6$THENGOSUB1550:LJ=LJ+1:JC=JB:NEXT
    :GOTO1020                            :rem 109
990 NEXT                                  :rem 225
1000 JB=JB+1:E$(JB,1)=E1$:E$(JB,2)=E2$:E$(JB,3)=E3
    $:E$(JB,4)=E4$:E$(JB,5)=E5$       :rem 10
1010 E$(JB,6)=E6$                        :rem 70
1020 NEXT:MY=MY-LJ                       :rem 136
1030 CLOSE8:GOSUB1970:IFE>19THEN410     :rem 119
1040 GOTO1050                             :rem 196
1050 POKEBO,5:POKEBA,5:POKE646,1:K=13:GOSUB1380:PR
    INT"{DOWN}INCOME: ":PRINT:LL=LL+3  :rem 35
1060 FORJ=1TOMA-1:PRINTTAB(2)I$(J,3)TAB(29)"$";
                                           :rem 179
1070 PRINTTAB(39-LEN(I$(J,5)))I$(J,5)   :rem 24
1080 LL=LL+1:IFLL=KTHENGOSUB1360        :rem 244
1090 NEXT:IFJ=MATHEN1100                 :rem 216
1100 PRINTTAB(28)"[11 T]":PRINTTAB(12)L$(15)"
    {5 SPACES}$";                       :rem 66
1110 PRINTTAB(39-LEN(TA$))TA$           :rem 179
1120 PRINT:LL=LL+2:IFLL=>KTHENGOSUB1360 :rem 245
1130 IFYP=0THEN1180                     :rem 99
1140 PRINTTAB(12)"NET ADJUSTMENTS{2 SPACES}$":GOS
    UB1940:PRINTTAB(39-LEN(AT$))AT$     :rem 108
1150 PRINTTAB(28)"[11 T]":LL=LL+2:IFLL=>KTHENGOSUB
    1360                                  :rem 207
1160 PRINTTAB(12)"TOTAL AVAILABLE{2 SPACES}$":GOS
    UB1560:PRINTTAB(38-LEN(TY$))TY$     :rem 103
1170 PRINT:LL=LL+2:IFLL=>KTHENGOSUB1360 :rem 250
1180 PRINT"EXPENDITURES: ":LL=LL+1:IFLL=>KTHENGOSUB
    1360                                  :rem 24
1190 PRINT:LL=LL+1:IFLL=>KTHENGOSUB1360 :rem 251
1200 FORJB=1TOMY-1:LK=LEN(E$(JB,3)):IFLK>22THENE$(
    JB,3)=LEFT$(E$(JB,3),22)           :rem 22
1210 PRINTTAB(2)E$(JB,3)TAB(24)E$(JB,6)TAB(29)"$";
                                           :rem 188
1220 PRINTTAB(39-LEN(E$(JB,5)))E$(JB,5) :rem 145
1230 LL=LL+1:IFLL=>KTHENGOSUB1360        :rem 47
1240 NEXT:IFJB=MYTHEN1250               :rem 53
1250 PRINTTAB(28)"[11 T]":LL=LL+1:IFLL=>KTHENGOSUB
    1360                                  :rem 207
1260 PRINTTAB(15)L$(14)"$":PRINTTAB(39-LEN(TE$))
    TE$:LL=LL+1                          :rem 226
1270 IFLL=>KTHENGOSUB1360                :rem 48
1280 PRINT:LL=LL+1:IFLL=>KTHENGOSUB1360 :rem 251

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```

1290 GOSUB1570:PRINTTAB(6)"SURPLUS(+)/DEFICIT(-)
      {2 SPACES}$";:PRINTTAB(39-LEN(SD$))SD$
      :rem 110
1300 PRINT:LL=LL+2:IFLL=>KTHENGOSUB1360      :rem 245
1310 PRINT"{DOWN}HARD COPY (Y/N) ?          :rem 69
1320 GETA$:IFA$=" "THEN1320                  :rem 175
1330 IFA$="N"THENYP=0:GOTO410                :rem 215
1340 IFA$<>"Y"THEN1320                        :rem 200
1350 GOTO1590                                  :rem 209
1360 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 199
1370 GETA$:IFA$<>"C"THEN1370                  :rem 57
1380 PRINT"{CLR}":PN=205+10*M:IFYP=1THENPN=160
      :rem 96
1390 PRINTN$TAB(35)PN:IFYP=1THENPRINT"{UP}AS OF ";
      D$:GOTO1410                              :rem 112
1400 PRINT"{UP}"M$(M)+" "+YR$                :rem 159
1410 PRINT:PRINTTAB(4)"STATEMENT OF INCOME AND EXP
      ENSE                                       :rem 136
1420 PRINTTAB(4)"§31 T§                       :rem 143
1430 PRINT"FROM/TO WHOM"TAB(23)"ACT#TAB(33)"AMOUN
      T"                                         :rem 76
1440 FORL=1TO39:PRINT"§T§";:NEXT:PRINT:LL=0
      :rem 225
1450 RETURN                                    :rem 170
1460 TA=0:TL=0:TR=0:P$=P1$:GOSUB1510:TL=PL-1:TR=PR
      +1:P$=P2$:GOSUB1510                      :rem 176
1470 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA=0THENP3$="0.0
      0":RETURN                                  :rem 23
1480 IFTA<0THENP3$=STR$(TA-.001)              :rem 95
1490 IFTA>0THENP3$=STR$(TA+.001)              :rem 96
1500 P3$=LEFT$(P3$,LEN(P3$)-1):RETURN         :rem 108
1510 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$)     :rem 15
1520 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
      -1                                         :rem 173
1530 RETURN                                    :rem 169
1540 P1$=I$(JC,5):P2$=I5$:GOSUB1460:I$(JC,5)=P3$:R
      ETURN                                       :rem 128
1550 P1$=E$(JC,5):P2$=E5$:GOSUB1460:E$(JC,5)=P3$:R
      ETURN                                       :rem 117
1560 P1$=TA$:P2$=AT$:GOSUB1460:TY$=P3$:RETURN
      :rem 203
1570 P1$=TA$:TX$=TE$:IFYP=1THENP1$=TY$       :rem 46
1580 TE$=NN$+TE$:P2$=TE$:GOSUB1460:SD$=P3$:RETURN
      :rem 194
1590 PRINT"{CLR}":PRINTTAB(4)"STATEMENT OF INCOME
      {SPACE}AND EXPENSE                       :rem 104
1600 PRINTTAB(13)"{DOWN}PRINT REPORT":OPEN4,4,1:LB
      $=LEFT$(S$,56-LEN(N$))                  :rem 161
1610 PRINT#4,LA$;N$;LB$;PN;LF$              :rem 237

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CHAPTER
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```

1620 IFYP=1THENPRINT#4,LA$;"AS OF ";D$;LF$;LF$:GOT
      O1640                                     :rem 202
1630 PRINT#4,LA$;M$(M)+" "+YR$;LF$;LF$       :rem 32
1640 LB$=LEFT$(S$,24):PRINT#4,LB$;"STATEMENT OF IN
      COME AND EXPENSE";LF$                   :rem 191
1650 PRINT#4,LB$;"[23 T]";LF$:PRINT#4,LA$;"FROM/TO
      WHOM";                                   :rem 153
1660 LB$=LEFT$(S$,27):PRINT#4,LB$;"ACT#{11 SPACES}
      AMOUNT";LF$                             :rem 163
1670 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
      RINT#4,LF$;LF$                          :rem 135
1680 PRINT#4,LA$;"INCOME:";LF$;LF$:FORJ=1TOMA-1
      :rem 78
1690 LB$=LEFT$(S$,12):PRINT#4,LB$;I$(J,3); :rem 62
1700 RA$=LEFT$(S$,46-LEN(I$(J,3))):PRINT#4,RA$;"$"
      ;                                         :rem 12
1710 RA$=LEFT$(S$,11-LEN(I$(J,5))):PRINT#4,RA$;I$(
      J,5);LF$:NEXT:IFJ=MATHEN1720           :rem 14
1720 LB$=LEFT$(S$,58):PRINT#4,LB$;"[9 T]";LF$
      :rem 144
1730 LB$=LEFT$(S$,40):PRINT#4,LB$;L$(15);"
      {6 SPACES}$";                           :rem 157
1740 LB$=LEFT$(S$,11-LEN(TA$)):PRINT#4,LB$;TA$;LF$
      ;LF$:IFYP=0THEN1800                   :rem 31
1750 LB$=LEFT$(S$,40):PRINT#4,LB$;"NET ADJUSTMENTS
      {3 SPACES}$";                         :rem 118
1760 LB$=LEFT$(S$,11-LEN(AT$)):PRINT#4,LB$;AT$;LF$
      :rem 89
1770 LB$=LEFT$(S$,58):PRINT#4,LB$;"[9 T]";LF$
      :rem 149
1780 LB$=LEFT$(S$,40):PRINT#4,LB$;"TOTAL AVAILABLE
      {3 SPACES}$";                         :rem 69
1790 LB$=LEFT$(S$,11-LEN(TY$)):PRINT#4,LB$;TY$;LF$
      ;LF$                                   :rem 125
1800 PRINT#4,LA$;"EXPENDITURES:";LF$;LF$:FORJB=1TO
      MY-1                                     :rem 135
1810 LB$=LEFT$(S$,12):PRINT#4,LB$;E$(JB,3);
      :rem 118
1820 RA$=LEFT$(S$,41-LEN(E$(JB,3))-LEN(E$(JB,6))):
      PRINT#4,RA$;E$(JB,6);                 :rem 141
1830 LB$=LEFT$(S$,5):PRINT#4,LB$;"$";       :rem 13
1840 RA$=LEFT$(S$,11-LEN(E$(JB,5))):PRINT#4,RA$;E$(
      JB,5);LF$:NEXT                       :rem 183
1850 IFJB=MYTHEN1860                         :rem 202
1860 LB$=LEFT$(S$,58):PRINT#4,LB$;"[9 T]";LF$
      :rem 149
1870 LB$=LEFT$(S$,42):PRINT#4,LB$;L$(14);"
      {3 SPACES}$";                         :rem 163
1880 LB$=LEFT$(S$,11-LEN(TX$)):PRINT#4,LB$;TX$;LF$
      ;LF$                                   :rem 123

```

```

1890 LB$=LEFT$(S$,58):PRINT#4,LB$;"[9 T]";LF$
                                     :rem 152
1900 LB$=LEFT$(S$,33):PRINT#4,LB$;"SURPLUS(+)/DEFI
CIT(-){4 SPACES}$";
                                     :rem 155
1910 RA$=LEFT$(S$,11-LEN(SD$)):PRINT#4,RA$;SD$;LF$
                                     :rem 100
1920 LB$=LEFT$(S$,58):PRINT#4,LB$;"[9 T]";CR$:PRIN
T#4,LB$;"DDDDDDDD";LF$
                                     :rem 229
1930 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:Y
P=0:GOTO410
1940 F$="ADJUSTMENTS":OPEN8,8,8,"0:"+F$+",S,R":INP
UT#8,MB,AT$:CLOSE8
                                     :rem 255
1950 IFAT$="" THEN AT$="" .00
                                     :rem 157
1960 RETURN
                                     :rem 176
1970 E=0:OPEN15,8,15:INPUT#15,E,E$
                                     :rem 164
1980 IFE>19 THEN PRINT:PRINT E$:SYS828:FORD=1TO5000:N
EXT
                                     :rem 201
1990 CLOSE15:RETURN
                                     :rem 201
2000 POKEBO,14:POKEBA,6:POKE646,14
                                     :rem 251
2010 PRINT "{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
DISK":PRINT
                                     :rem 253
2020 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
ROGRAM DISK":PRINT"{4 DOWN}
                                     :rem 153
2030 PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                     :rem 251
2040 GETA$:IFA$="" THEN2040
                                     :rem 175
2050 IFA$<>"C" THEN2040
                                     :rem 177
2060 POKE631,83:POKE632,89:POKE633,83
                                     :rem 101
2070 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
OKE638,48:POKE639,13
                                     :rem 71
2080 POKE198,9:NEW
                                     :rem 36

```

INVESTMENTS

Remember to use the name above for the program you place on the PAM master disk.

```

20 BO=53280:BA=53281:N=50:MSX=1:MOX=1:MTX=1:MAX=1
                                     :rem 196
30 Y=0:AA=0:TY=0:LL=0:KK=13:JD=0:TA=0:TL=0:TR=0:PL
=0:PR=0:PN=0
                                     :rem 44
40 C1=0:C2=0:C3=0:C4=0:LC=0:SP=0:E=0
                                     :rem 8
50 F$="":N$="":N1$="":N2$="":N3$="":N4$="":P$="":P
P$="":Z$=""
                                     :rem 226
60 NN$="-":A$="":YR$="":B$="":PL$="":PR$="":TA$=""
:E$=""
                                     :rem 51
70 C4$="":C5$="":C6$="":C7$="":C8$=""
                                     :rem 229
80 T1$="":T2$="":T3$="":T4$="":T5$="":T6$="":T7$=""
:T8$=""
                                     :rem 106
90 U1$="":U2$="":U3$="":U4$="":U5$="":U6$=""
                                     :rem 156

```

CHAPTER
FOURTEEN

```

100 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:P
   C=0:LB$="":RA$="" :rem 155
110 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,
   10):LC$=LEFT$(S$,20) :rem 91
120 DIMIV$(24),TX$(4),L$(30) :rem 184
130 DIMIN$(50,15),SS$(50,15),BO$(50,11),IO$(10,11)
   :DIMU$(3) :rem 13
140 IV$(1)="CO. NAME (SYMBOL)":IV$(2)="DATE PURCHA
   SED" :rem 33
150 IV$(3)="NO. OF SHARES":IV$(4)="TYPE":IV$(5)="T
   OTAL COST" :rem 138
160 IV$(6)="ANNUAL DIV/SHARE":IV$(7)="COST PER SHA
   RE" :rem 63
170 IV$(8)=" % YIELD":IV$(9)="TOTAL DIVIDENDS":IV$(
   10)="CURRENT DATE" :rem 152
180 IV$(11)="CURRENT PRICE/SHARE" :rem 200
190 IV$(12)="CURRENT GAIN/LOSS PER SHARE":IV$(13)=
   "CURRENT % YIELD" :rem 144
200 IV$(14)="TOTAL CURRENT COST":IV$(15)="TOTAL CU
   RRENT GAIN/LOSS" :rem 215
210 IV$(16)="NO. OF BONDS":IV$(17)="TOTAL COST"
   :rem 89
220 IV$(18)="ANNUAL INTEREST/EACH":IV$(19)="COST E
   ACH BOND" :rem 165
230 IV$(20)=" % YIELD":IV$(21)="TOTAL ANNUAL INTERE
   ST" :rem 11
240 IV$(22)="MATURITY DATE":IV$(23)="CURRENT VALUE
   " :rem 0
250 IV$(24)="AMOUNT INVESTED":TX$(1)="BONDS":TX$(
   2)="STOCKS:" :rem 164
260 TX$(3)="OTHER INVESTMENTS":TX$(4)="INVESTMENT
   S" :rem 249
270 POKEBO,3:POKEBA,3:POKE646,1 :rem 105
280 PRINT"{CLR}{3 DOWN}":PRINTTAB(14)"INVESTMENTS"
   :FORD=1TO5000:NEXT :rem 221
290 POKEBO,14:POKEBA,6:POKE646,14 :rem 212
300 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
   AM DISK":PRINT :rem 201
310 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
   TA DISK":PRINT:PRINT"{4 DOWN}" :rem 86
320 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 237
330 GETA$:IFA$<>"C"THEN330 :rem 207
340 POKEBO,12:POKEBA,12:POKE646,1 :rem 199
350 PRINT"{CLR}{2 DOWN}":PRINTTAB(14)"INVESTMENTS"
   :PRINT:PRINT :rem 164
360 PRINT"LOADING PERSONAL DATA_":F$="PERSDATA":O
   PEN8,8,8,"0":"+F$+",S,R" :rem 225
370 INPUT#8,YR$,N$,N1$,N2$,N3$,N4$:PRINT ". ";
   :rem 212

```

CHAPTER
FOURTEEN

```

380 FORJ=1TO30:INPUT#8,L$(J):NEXTJ:PRINT ".":CLOS
    E8                                     :rem 187
390 GOSUB2480:IFE>19THEN290               :rem 106
400 POKEBO,4:POKEBA,4:POKE646,1         :rem 102
410 PRINT"{CLR}{3 DOWN}":PRINTTAB(14)"INVESTMENTS"
    :PRINT:PRINT:GOSUB2400                :rem 50
420 OPEN15,8,15:INPUT#15,E,E$:CLOSE15    :rem 147
430 POKEBO,4:POKEBA,4:POKE646,1         :rem 105
440 PRINT"{CLR}{3 DOWN}":PRINTTAB(14)"INVESTMENTS"
    :PRINTTAB(8)"{DOWN}1.{2 SPACES}BONDS" :rem 120
450 PRINTTAB(8)"{DOWN}2.{2 SPACES}STOCKS":PRINTTAB
    (8)"{DOWN}3.{2 SPACES}OTHER":PRINTTAB(8)"
    {DOWN}4.{2 SPACES}DISPLAY"           :rem 101
460 PRINTTAB(8)"{DOWN}5.{2 SPACES}MAIN MENU":PRINT
    TAB(10)"{4 DOWN}PRESS DESIRED NUMBER" :rem 199
470 GETA$:IFA$=""THEN470                 :rem 89
480 IFA$<"1"ORA$>"5"THEN470             :rem 200
490 AA=VAL(A$):ONAAGOTO1550,580,1600,2540,4740
                                           :rem 0
500 PRINTTAB(11)"{3 DOWN}ENTER/CHANGE DATA":PRINT
    AB(11)"{2 DOWN}1.{2 SPACES}NEW ITEM" :rem 191
510 PRINTTAB(11)"{DOWN}2.{2 SPACES}CHANGE":PRINTTA
    B(11)"{DOWN}3.{2 SPACES}DELETE"      :rem 194
520 PRINTTAB(11)"{DOWN}4.{2 SPACES}RETURN TO MENU"
                                           :rem 29
530 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER"
                                           :rem 140
540 GETA$:IFA$=""THEN540                 :rem 85
550 IFA$<"1"ORA$>"4"THEN540             :rem 195
560 AA=VAL(A$):ONAAGOTO620,910,1360,430 :rem 156
570 GOTO430                               :rem 108
580 TY=2:POKEBO,3:POKEBA,3:POKE646,1:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(17)"STOCKS"       :rem 6
590 PRINT"{2 DOWN}LOOKING FOR YOUR "TX$(2)".":FO
    RJ=1TOMSX-1:FORK=1TO15               :rem 143
600 IN$(J,K)=SS$(J,K):NEXTK:PRINT ".":NEXTJ:MAX=M
    SX                                     :rem 204
610 PRINT"{CLR}{DOWN}STOCKS":GOTO500     :rem 235
620 PRINT"{CLR}{DOWN}":PRINT"TYPE 0.00 IF NO DATA:
    ":PRINT:FORJ=MAXTON:FORK=1TO10      :rem 188
630 IFK=3ANDTY=1THENPRINTIV$(16):GOTO760 :rem 83
640 IFK=3ANDTY=3THEN830                  :rem 158
650 IFK=4THENIN$(J,K)=STR$(TY):GOTO830  :rem 72
660 IFK=7ANDTY<>3THENGOSUB1740:GOTO830   :rem 160
670 IFK=7ANDTY=3THEN830                  :rem 165
680 IFK=8ANDTY<>3THENGOSUB1790:GOTO830   :rem 168
690 IFK=8ANDTY=3THENIN$(J,7)=IN$(J,5):GOSUB1790:GO
    TO830                                  :rem 83
700 IFK=9ANDTY<>3THENGOSUB2110:GOTO830   :rem 149

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710 IFK=9ANDTY=3THEN830 :rem 162
720 IFK=5ANDTY=3THENPRINTIV$(24);:GOTO760 :rem 86
730 IFK=>5ANDTY<>2THENPRINTIV$(K+12);:GOTO760
:rem 68
740 IFK=10THEN830 :rem 221
750 PRINTIV$(K); :rem 195
760 INPUTIN$(J,K):IFLEN(IN$(J,1))>16THENIN$(J,1)=L
EFT$(IN$(J,1),16) :rem 80
770 IFK=5THENPP$=IN$(J,5):GOTO800 :rem 220
780 IFK=6THENPP$=IN$(J,6):GOTO800 :rem 223
790 GOTO830 :rem 116
800 GOSUB2510:IFEFF=1THEN760 :rem 110
810 Z$=RIGHT$(PP$,3):IFMID$(Z$,1,1)="."THEN830
:rem 51
820 PRINT"ERROR--AMOUNT NOT IN X.XX FORM":SYS828:F
ORD=1TO1000:NEXTD:GOTO760 :rem 244
830 NEXTK:IN$(J,11)=IN$(J,5):IFTY=2THENIN$(J,11)=I
N$(J,7) :rem 37
840 IFTY=2THENGOSUB2040 :rem 188
850 MAX=MAX+1:PRINT"{CLR}{7 DOWN}":PRINTTAB(10)"AN
OTHER ITEM?(Y/N)" :rem 81
860 GETA$:IFA$=""THEN860 :rem 95
870 IFA$="N"THENGOSUB1510:J=N:GOTO900 :rem 243
880 IFA$<>"Y"THEN860 :rem 120
890 PRINT"{CLR}{DOWN}":PRINT"TYPE 0.00 IF NO DATA:
":PRINT :rem 104
900 NEXTJ:GOTO2540 :rem 96
910 PRINT"{CLR}{DOWN}":POKEBO,10:POKEBA,10:POKE646
,1 :rem 117
920 PRINTTAB(17)"CHANGE":PRINT:LL=0:FORJ=1TOMAX-1
:rem 104
930 PRINTTAB(10)JTAB(5)IN$(J,1):LL=LL+1:IFLL=>15TH
EN950 :rem 30
940 NEXTJ:IFJ=>MAXTHEN980 :rem 106
950 PRINT:PRINTTAB(9)"{4 DOWN}PRESS 'C' TO CONTINU
E" :rem 1
960 GETA$:IFA$<>"C"THEN960 :rem 225
970 PRINT"{CLR}{DOWN}":PRINTTAB(17)"CHANGE":PRINT:
LL=0:GOTO940 :rem 108
980 PRINT:B$="" :rem 79
990 INPUT"ITEM NO. TO CHANGE";B$:IFB$=""THEN1330
:rem 0
1000 JD=VAL(B$):IFJD<=0ORJD>MAX-1THEN990 :rem 168
1010 PRINT"{CLR}":PRINT"CHANGE ITEM ";B$:PRINT
:rem 110
1020 PRINT"PRESS RETURN IF NO CHANGE":PRINT:J=JD
:rem 35
1030 FORK=1TO11:IFK=3ANDTY=1THENPRINTIV$(16);:GOTO
1100 :rem 130
1040 IFK=3ANDTY=3THEN1280 :rem 249

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1050 IFK=4THEN1280 :rem 11
1060 IFK=7ORK=8ORK=9THEN1150 :rem 206
1070 IFK=5ANDTY=3THENPRINTIV$(24);:GOTO1100 :rem 170
1080 IFK=>5ANDTY<>2THENPRINTIV$(K+12);:GOTO1100 :rem 152
1090 PRINTIV$(K); :rem 241
1100 PRINTTAB(21)IN$(J,K); :rem 226
1110 INPUTIN$(J,K) :rem 32
1120 IFLEN(IN$(J,1))>16THENIN$(J,1)=LEFT$(IN$(J,1),16) :rem 224
1130 IFK=5THENPP$=IN$(J,5):GOTO1240 :rem 50
1140 IFK=6THENPP$=IN$(J,6):GOTO1240 :rem 53
1150 IFK=7ANDTY<>3THENGOSUB1740 :rem 189
1160 IFK=7ANDTY=3THEN1280 :rem 0
1170 IFK=8ANDTY<>3THENGOSUB1790 :rem 197
1180 IFK=8ANDTY=3THEN1280 :rem 3
1190 IFK=9ANDTY<>3THENGOSUB2110 :rem 187
1200 IFK=9ANDTY=3THEN1280 :rem 253
1210 IFK=11ANDIN$(J,11)=" "THEN1270 :rem 110
1220 IFK=11THENPP$=IN$(J,11):GOTO1240 :rem 140
1230 GOTO1270 :rem 201
1240 GOSUB2510:IFEF=1THEN1110 :rem 195
1250 Z$=RIGHT$(PP$,3):IFMID$(Z$,1,1)="."THEN1270 :rem 145
1260 PRINT"ERROR--AMOUNT NOT IN X.XX FORM":SYS828: :rem 73
      FORD=1TOL000:NEXTD:GOTO1110
1270 IFK=11ANDTY<>1THENGOSUB2040 :rem 227
1280 NEXTK:PRINT"{CLR}{6 DOWN}":PRINTTAB(13)"ANOTHER? (Y/N)" :rem 103
1290 GETA$:IFA$=" "THEN1290 :rem 187
1300 IFA$="Y"THEN910 :rem 91
1310 IFA$<>"N"THEN1290 :rem 192
1320 GOSUB1510 :rem 13
1330 IFTY=1GOTO1590 :rem 121
1340 IFTY=2GOTO610 :rem 67
1350 IFTY=3GOTO1640 :rem 121
1360 PRINT"{CLR}{2 DOWN}":POKEBO,2:POKEBA,2:POKE64,1:PRINTTAB(15)"DELETIONS":PRINT:LL=0 :rem 158
1370 FORJ=1TOMAX-1:PRINTTAB(10)JTAB(5)IN$(J,1):LL=LL+1:IFLL=>15THEN1390 :rem 60
1380 NEXTJ:IFJ=>MAXTHEN1420 :rem 191
1390 PRINT:PRINTTAB(9)"{4 DOWN}PRESS 'C' TO CONTINUE" :rem 48
1400 GETA$:IFA$<>"C"THEN1400 :rem 45
1410 PRINT"{CLR}{DOWN}":PRINTTAB(17)"DELETE":PRINT:LL=0:GOTO1380 :rem 206
1420 PRINT:PRINT"PRESS 'C' TO CONTINUE OR ANY KEY {SPACE}TO EXIT" :rem 212

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1430 GETA$: IFA$=" " THEN 1430 : rem 179
1440 IFA$<>"C" THEN 500 : rem 130
1450 PRINT : rem 87
1460 INPUT "ITEM NO. TO DELETE"; B$: IF B$=" " THEN 1460 : rem 58
1470 JD=VAL(B$): IF JD<=0 OR JD>MAX-1 THEN 1460 : rem 220
1480 PRINT "{CLR}": PRINT "DELETING ITEM "; B$: FOR D=1 TO 000 : NEXT JJ=JD+1 : FOR J=JJ TO MAX-1 : rem 32
1490 FORK=1 TO 15 : IN$(J-1, K)=IN$(J, K) : NEXT K, J : MAX=MAX-1 : GOSUB 1510 : GOTOL 330 : rem 124
1500 PRINT "{CLR} {3 DOWN}": PRINT "PRESS RETURN IF NO DATA": PRINT : RETURN : rem 252
1510 GOSUB 1830 : PRINT : PRINT "{DOWN} I'M SAVING. . .": IFTY=1 THEN 2260 : rem 239
1520 IFTY=2 THEN 2230 : rem 105
1530 IFTY=3 THEN 2290 : rem 113
1540 RETURN : rem 170
1550 TY=1 : POKEBO, 9 : POKEBA, 9 : POKE646, 1 : rem 252
1560 PRINT "{CLR} {3 DOWN}": PRINT TAB(17) "BONDS": PRINT : rem 2
1570 PRINT "LOOKING FOR YOUR "TX$(1)" . . .": FOR J=1 TO MOX-1 : FORK=1 TO 11 : rem 147
1580 IN$(J, K)=BO$(J, K) : NEXT K : PRINT " . . .": NEXT J : MAX=MOX : rem 235
1590 PRINT "{CLR} {DOWN} BONDS": GOTO 500 : rem 194
1600 TY=3 : POKEBO, 8 : POKEBA, 8 : POKE646, 1 : rem 248
1610 PRINT "{CLR} {3 DOWN}": PRINT TAB(11) "OTHER INVESTMENTS": PRINT : rem 100
1620 PRINT "LOOKING FOR YOUR "TX$(3)" . . .": FOR J=1 TO MOX-1 : FORK=1 TO 11 : rem 150
1630 IN$(J, K)=IO$(J, K) : NEXT K : PRINT " . . .": NEXT J : MAX=MTX : rem 243
1640 PRINT "{CLR} {DOWN} OTHER INVESTMENTS": GOTO 500 : rem 42
1650 TA=0 : TL=0 : TR=0 : P$=P1$ : GOSUB 1710 : TL=PL-1 : TR=PR+1 : P$=P2$ : GOSUB 1710 : rem 181
1660 TL=TL+PL : TR=TR+PR : TA=TL+TR : IFTA=0 THEN P3$="0.00": RETURN : rem 24
1670 IFTA<0 THEN P3$=STR$(TA-.001) : rem 96
1680 IFTA>0 THEN P3$=STR$(TA+.001) : rem 97
1690 P3$=LEFT$(P3$, LEN(P3$)-1) : IF LEFT$(P3$, 1)=CHR$(32) THEN P3$=MID$(P3$, 2) : rem 36
1700 RETURN : rem 168
1710 PL$=LEFT$(P$, LEN(P$)-3) : PL=VAL(PL$) : rem 17
1720 PR$=RIGHT$(P$, 3) : PR=VAL(PR$) : IF PL<0 THEN PR=PR*-1 : rem 175
1730 RETURN : rem 171
1740 C1=VAL(IN$(J, 5)) : C2=VAL(IN$(J, 3)) : C3=C1/C2+.005 : C4$=STR$(C3) : GOSUB 1760 : rem 174
1750 IN$(J, 7)=C6$ : RETURN : rem 122

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1760 LC=0:C5$=".":LC=LEN(C4$):FORLD=1TOLC :rem 113
1770 IFMID$(C4$,LD,1)=C5$THENLE=LD:LD=LC :rem 93
1780 NEXTLD:C6$=LEFT$(C4$,LE+2):RETURN :rem 34
1790 IFIN$(J,6)="0.00"THENC6$="0":GOTO1820 :rem 18
1800 C3=VAL(IN$(J,7)):C4=VAL(IN$(J,6)):C2=(C4/C3)*
100+.005:C4$=STR$(C2) :rem 58
1810 GOSUB1760 :rem 24
1820 IN$(J,8)=C6$:RETURN :rem 121
1830 PRINT"{CLR}{2 DOWN}COMPUTING .":P1$="0.00":F
ORJ=1TOMAX-1:P2$=IN$(J,9) :rem 39
1840 IFTY=3THENP2$=IN$(J,6) :rem 67
1850 IFP2$=""THEN1870 :rem 131
1860 GOSUB1650:P1$=P3$ :rem 222
1870 PRINT ".":NEXTJ:IFTY=1THENT7$=P3$:GOTO1900
:rem 176
1880 IFTY=3THENU2$=P3$:GOTO1900 :rem 120
1890 T4$=P3$ :rem 98
1900 P1$="0.00":FORJ=1TOMAX-1:P2$=IN$(J,5):IFP2$=""
"THEN1920 :rem 45
1910 GOSUB1650:P1$=P3$ :rem 218
1920 PRINT ".":NEXTJ:IFTY=1THENT6$=P3$:GOTO1960
:rem 177
1930 IFTY=3THENU1$=P3$:GOTO1960 :rem 121
1940 T1$=P3$:P1$="0.00":FORJ=1TOMAX-1:P2$=IN$(J,14
):GOSUB1650:P1$=P3$ :rem 134
1950 PRINT ".":NEXTJ:T2$=P3$:P1$=T2$:P2$=NN$+T1$:
GOSUB1650:T3$=P3$:PRINT ".": :rem 206
1960 IFTY=1THENC3=VAL(T6$):C4=VAL(T7$):GOTO1990
:rem 85
1970 IFTY=3THENC3=VAL(U1$):C4=VAL(U2$):GOTO1990
:rem 80
1980 C3=VAL(T1$):C4=VAL(T4$) :rem 48
1990 IFC3=0THENC6$="0":GOTO2010 :rem 248
2000 C2=(C4/C3)*100+.005:C4$=STR$(C2):GOSUB1760
:rem 7
2010 IFTY=1THENT8$=C6$:RETURN :rem 64
2020 IFTY=3THENU3$=C6$:RETURN :rem 63
2030 T5$=C6$:RETURN :rem 102
2040 IFIN$(J,6)="0.00"THENC6$="0":GOTO2070 :rem 5
2050 C3=VAL(IN$(J,11)):C4=VAL(IN$(J,6)):C2=(C4/C3)
*100+.005:C4$=STR$(C2) :rem 99
2060 GOSUB1760:IFTY=3THENIN$(J,8)=C6$:RETURN
:rem 217
2070 IN$(J,13)=C6$:P1$=IN$(J,11):P2$=NN$+IN$(J,7):
GOSUB1650:IN$(J,12)=P3$ :rem 211
2080 C1=VAL(IN$(J,11)):C2=VAL(IN$(J,3)):C3=C1*C2+.
005:C4$=STR$(C3):GOSUB1760 :rem 212
2090 IN$(J,14)=C6$:P1$=IN$(J,14):P2$=NN$+IN$(J,5):
GOSUB1650:IN$(J,15)=P3$ :rem 218
2100 RETURN :rem 163

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2110 IFIN$(J,6)="0.00"THENC6$="0.00":GOTO2130
                                     :rem 142
2120 C1=VAL(IN$(J,6)):C2=VAL(IN$(J,3)):C3=C1*C2+.0
      05:C4$=STR$(C3):GOSUB1760
                                     :rem 163
2130 IN$(J,9)=C6$:RETURN
                                     :rem 117
2140 U$(1)=T1$:U$(2)=T6$:U$(3)=U1$:P1$="0.00":FORU
      =1TO3
                                     :rem 191
2150 P2$=U$(U):IFP2$=""THEN2170
                                     :rem 179
2160 GOSUB1650:P1$=P3$
                                     :rem 216
2170 NEXTU:U4$=P3$:U$(1)=T4$:U$(2)=T7$:U$(3)=U2$:P
      1$="0.00":FORU=1TO3
                                     :rem 96
2180 P2$=U$(U):IFP2$=""THEN2200
                                     :rem 176
2190 GOSUB1650:P1$=P3$
                                     :rem 219
2200 NEXTU:U5$=P3$:C3=VAL(U4$):IFC3=0THEN2220
                                     :rem 147
2210 C4=VAL(U5$):C2=(C4/C3)*100+.005:C4$=STR$(C2):
      GOSUB1760:U6$=C6$
                                     :rem 157
2220 RETURN
                                     :rem 166
2230 FORJE=1TOMAX-1:FORK=1TO15:SS$(JE,K)=IN$(JE,K)
      :NEXTK:PRINT".":NEXTJE
                                     :rem 95
2240 MSX=MAX
                                     :rem 227
2250 GOTO2320
                                     :rem 201
2260 FORJE=1TOMAX-1:FORK=1TO11:BO$(JE,K)=IN$(JE,K)
      :NEXTK:PRINT".":
                                     :rem 65
2270 NEXTJE:MOX=MAX
                                     :rem 234
2280 GOTO2320
                                     :rem 204
2290 FORJE=1TOMAX-1:FORK=1TO11:IO$(JE,K)=IN$(JE,K)
      :NEXTK:PRINT".":
                                     :rem 75
2300 NEXTJE:MTX=MAX
                                     :rem 233
2310 GOTO2320
                                     :rem 198
2320 F$="SECURITIES":OPEN15,8,15:PRINT#15,"S0:"+F$
      :CLOSE15
                                     :rem 162
2330 OPEN8,8,8,"0:"+F$+",S,W":PRINT#8,T6$,"T1$","
      U1$","U4$CHR$(13)
                                     :rem 220
2340 PRINT#8,MSX,"MOX","MTXCHR$(13)
                                     :rem 88
2350 PRINT#8,T2$,"T3$","T4$","T5$","T7$","T8$CHR$
      (13)
                                     :rem 209
2360 PRINT#8,U2$,"U3$","U5$","U6$CHR$(13):FORJB=1
      TOMSX-1:FORK=1TO15
                                     :rem 144
2370 PRINT#8,SS$(JB,K),"":NEXTK:NEXTJB:PRINT".":
      FORJB=1TOMOX-1:FORK=1TO11
                                     :rem 154
2380 PRINT#8,BO$(JB,K),"":NEXTK:NEXTJB:PRINT".":
      FORJB=1TOMTX-1:FORK=1TO11
                                     :rem 139
2390 PRINT#8,IO$(JB,K),"":NEXTK:NEXTJB:PRINT".":
      CLOSE8:RETURN
                                     :rem 161
2400 F$="SECURITIES":PRINT:PRINT"LOADING "F$".":
      OPEN8,8,8,"0:"+F$+",S,R"
                                     :rem 223
2410 INPUT#8,T6$,T1$,U1$,U4$:INPUT#8,MSX,MOX,MTX
                                     :rem 158
2420 INPUT#8,T2$,T3$,T4$,T5$,T7$,T8$
                                     :rem 200

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2430 INPUT#8,U2$,U3$,U5$,U6$:FORJB=1TOMSX-1:rem 44
2440 FORK=1TO15:INPUT#8,SS$(JB,K):NEXTK:PRINT ". ";
                                         :rem 26
2450 NEXTJB:FORJB=1TOMOX-1:FORK=1TO11:INPUT#8,BO$(
JB,K):NEXTK:PRINT ". ";:NEXTJB           :rem 28
2460 FORJB=1TOMTX-1:FORK=1TO11:INPUT#8,IO$(JB,K):N
EXTK:PRINT ". ";:NEXTJB                   :rem 36
2470 CLOSE8:RETURN                        :rem 149
2480 E=0:OPEN15,8,15:INPUT#15,E,E$       :rem 161
2490 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
EXT                                         :rem 198
2500 CLOSE15:RETURN                       :rem 189
2510 EF=0:L1=LEN(PP$):FORL=1TOLL:TT$=MID$(PP$,L,1)
:AB=ASC(TT$):IFAB=46THENNEXT             :rem 29
2520 IFAB<48ORAB>57THENL=L1:EF=1:PRINT:PRINT"ERROR
IN INPUT":SYS828                          :rem 23
2530 NEXT:RETURN                          :rem 35
2540 POKEBO,2:POKEBA,2:POKE646,1:PRINT"{CLR}
{3 DOWN}":PRINTTAB(16)"DISPLAY"          :rem 26
2550 PRINTTAB(8)"{DOWN}1.{2 SPACES}INDIVIDUAL BOND
S":PRINTTAB(8)"{DOWN}2.{2 SPACES}INDIVIDUAL S
TOCKS"                                     :rem 104
2560 PRINTTAB(8)"{DOWN}3.{2 SPACES}OTHER INVESTMEN
TS":PRINTTAB(8)"{DOWN}4.{2 SPACES}INCOME SUMM
ARY"                                       :rem 25
2570 PRINTTAB(8)"{DOWN}5.{2 SPACES}GAIN/LOSS SUMMA
RY":PRINTTAB(8)"{DOWN}6.{2 SPACES}RETURN TO M
ENU"                                       :rem 200
2580 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER"
                                         :rem 195
2590 GETA$:IFA$=""THEN2590                :rem 195
2600 IFA$<"1"ORA$>"6"THEN2590           :rem 42
2610 AA=VAL(A$):ONAAGOTO3110,2630,3200,3290,4290,4
30                                         :rem 24
2620 GOTO430                               :rem 154
2630 TY=2:LL=0:PRINT"{CLR}{3 DOWN}":PRINTTAB(8)"DI
SPLAY INDIVIDUAL STOCKS":PRINT:MAX=MSX:rem 84
2640 FORJ=1TOMSX-1:FORK=1TO15:IN$(J,K)=SS$(J,K):NE
XTK                                         :rem 43
2650 PRINTTAB(10)JTAB(5)SS$(J,1):LL=LL+1:IFLL=>KKT
HEN2670                                     :rem 191
2660 NEXTJ:IFJ=>MSXTHEN2700               :rem 213
2670 PRINTTAB(9)"{4 DOWN}PRESS 'C' TO CONTINUE"
                                         :rem 107
2680 GETA$:IFA$<">"C"THEN2680            :rem 67
2690 PRINT"{CLR}{3 DOWN}":PRINTTAB(8)"DISPLAY INDI
VIDUAL STOCK":PRINT:LL=0:GOTO2660        :rem 157
2700 GOSUB2710:GOTO2540                   :rem 81
2710 PRINT:PRINTTAB(10)"PRESS DESIRED NUMBER":B$=""
":INPUTB$:IFB$=""THENRETURN              :rem 81

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2720 JD=VAL(B$):IFJD<=0THEN2710           :rem 41
2730 IFTY=2THENPN=650+JD                   :rem 213
2740 IFTY=3THENPN=700+JD                   :rem 211
2750 PRINT"{CLR}":LC=LEN(TX$(TY)):IFTY=1THENPN=600
      +JD                                     :rem 115
2760 POKEBO,3:POKEBA,3:POKE646,1:PRINTN$TAB(35)PN:
      PRINT"{UP}";                           :rem 221
2770 PRINTLEFT$(TX$(TY),LC-1)TAB(39-LEN(SS$(1,10))
      )SS$(1,10):PRINT:PRINT                 :rem 21
2780 J=JD:C1=11:IFTY=2THENC1=15           :rem 94
2790 FORK=1TOC1:IFK=3ANDTY=1THENPRINTIV$(16);:GOTO
      2880                                     :rem 178
2800 IFK=3ANDTY=3THEN2890                 :rem 6
2810 IFK=4THEN2890                         :rem 24
2820 IFK=5ANDTY=3THENPRINTIV$(24);:GOTO2880
      :rem 190
2830 IFK=>5ANDTY=1THENPRINTIV$(K+12);:GOTO2880
      :rem 110
2840 IFK=7ANDTY=3THEN2890                 :rem 14
2850 IFK=9ANDTY=3THEN2890                 :rem 17
2860 IFK=>6ANDTY=3THENPRINTIV$(K+12);:GOTO2880
      :rem 116
2870 PRINTIV$(K);                         :rem 248
2880 PRINTTAB(39-LEN(IN$(J,K)))IN$(J,K)    :rem 234
2890 NEXTK:PRINT"{2 DOWN}HARD COPY (Y/N) ?":rem 74
2900 GETA$:IFA$=""THEN2900                 :rem 185
2910 IFA$="N"THENRETURN                     :rem 158
2920 IFA$<>"Y"THEN2900                     :rem 210
2930 OPEN4,4,1:LB$=LEFT$(S$,41-LEN(N$)):PRINT#4,LC
      $;N$;LB$;PN;LF$                       :rem 242
2940 LB$=LEFT$(TX$(TY),LC-1):PRINT#4,LC$;LB$;
      :rem 106
2950 LB$=LEFT$(S$,45-LEN(LB$)-LEN("DATE:{3 SPACES}
      "+SS$(1,10)))                          :rem 119
2960 PRINT#4,LB$;"DATE:{3 SPACES}";SS$(1,10);LF$;L
      F$:FORK=1TOC1:IFIN$(J,K)=""THEN3070   :rem 97
2970 IFK=3ANDTY=1THENPRINT#4,LC$;IV$(16);:GOTO3080
      :rem 43
2980 IFK=3ANDTY=3THEN3070                 :rem 6
2990 IFK=4THEN3070                         :rem 24
3000 IFK=5ANDTY=3THENPRINT#4,LC$;IV$(24);:GOTO3090
      :rem 32
3010 IFK=>5ANDTY=1THENPRINT#4,LC$;IV$(K+12);:GOTO3
      100                                     :rem 200
3020 IFK=7ANDTY=3THEN3070                 :rem 252
3030 IFK=9ANDTY=3THEN3070                 :rem 255
3040 IFK=>6ANDTY=3THENPRINT#4,LC$;IV$(K+12);:GOTO3
      100                                     :rem 206
3050 PRINT#4,LC$;IV$(K);:RA$=LEFT$(S$,45-LEN(IV$(K
      ))-LEN(IN$(J,K)))                      :rem 32

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3060 PRINT#4, RA$; IN$(J, K); LF$ :rem 137
3070 NEXTK:FORSP=1TO12:PRINT#4, LF$:NEXT:PRINT#4:CL
    OSE4:RETURN :rem 33
3080 RA$=LEFT$(S$, 45-LEN(IV$(16))-LEN(IN$(J, K))):G
    OTO3060 :rem 169
3090 RA$=LEFT$(S$, 45-LEN(IV$(24))-LEN(IN$(J, K))):G
    OTO3060 :rem 169
3100 RA$=LEFT$(S$, 45-LEN(IV$(K+12))-LEN(IN$(J, K)))
    :GOTO3060 :rem 20
3110 TY=1:LL=0:PRINT "{CLR}{3 DOWN}":PRINTTAB(8)"DI
    SPLAY INDIVIDUAL BONDS":PRINT:MAX=MOX:rem 232
3120 PRINT "ITEM NO. "TAB(10)"MATURES "TAB(19)IV$(1):
    PRINT :rem 29
3130 FORJ=1TOMOX-1:FORK=1TO11 :rem 58
3140 IN$(J, K)=BO$(J, K):NEXTK:PRINTTAB(3)JTAB(10)BO
    $(J, 10)TAB(19)BO$(J, 1):L=LL+1 :rem 37
3150 IFLL=>KKTHEN3170 :rem 251
3160 NEXTJ:IFJ=>MOXTHEN2700 :rem 205
3170 PRINTTAB(9)"{4 DOWN}PRESS 'C' TO CONTINUE"
    :rem 103
3180 GETA$:IFA$<>"C"THEN3180 :rem 59
3190 PRINT "{CLR}{3 DOWN}":PRINTTAB(8)"DISPLAY INDI
    VIDUAL ITEM":PRINT:LL=0:GOTO3160 :rem 64
3200 TY=3:LL=0:PRINT "{CLR}{3 DOWN}":PRINTTAB(8)"DI
    SPLAY OTHER SECURITIES":PRINT:MAX=MTX :rem 18
3210 PRINT "ITEM NO. "TAB(10)"MATURES "TAB(19)IV$(1):
    PRINT :rem 29
3220 FORJ=1TOMTX-1:FORK=1TO11 :rem 63
3230 IN$(J, K)=IO$(J, K):NEXTK:PRINTTAB(3)JTAB(10)IO
    $(J, 10)TAB(19)IO$(J, 1):L=LL+1 :rem 58
3240 IFLL=>KKTHEN3260 :rem 251
3250 NEXTJ:IFJ=>MTXTHEN2700 :rem 210
3260 PRINTTAB(9)"{4 DOWN}PRESS 'C' TO CONTINUE"
    :rem 103
3270 GETA$:IFA$<>"C"THEN3270 :rem 59
3280 PRINT "{CLR}{3 DOWN}":PRINTTAB(8)"DISPLAY OTHE
    R INVESTMENTS":PRINT:LL=0:GOTO3250 :rem 10
3290 POKEBO, 5:POKEBA, 5:POKE646, 1:GOSUB3740:IFBO$(1
    , 1)=" "THEN3360 :rem 3
3300 PRINT:PRINTTX$(1):PRINT:LL=LL+4:FORJ=1TOMOX-1
    :PRINTLEFT$(BO$(J, 1), 8); :rem 186
3310 PRINTTAB(13-LEN(BO$(J, 3)))BO$(J, 3);:PRINTTAB(
    22-LEN(BO$(J, 7)))BO$(J, 7); :rem 39
3320 PRINTTAB(32-LEN(BO$(J, 6)))BO$(J, 6); :rem 222
3330 PRINTTAB(39-LEN(BO$(J, 8)))BO$(J, 8):LL=LL+1
    :rem 178
3340 IFLL=>KKTHENGOSUB3720 :rem 125
3350 NEXTJ :rem 84
3360 IFSS$(1, 1)=" "THEN3430 :rem 126
3370 PRINT:LL=LL+1:IFLL=>KKTHENGOSUB3720 :rem 74

```

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```

3380 PRINTTX$(2):PRINT:LL=LL+2:IFLL=>KKTHENGOSUB37
20 :rem 102
3390 FORJ=1TOMSX-1:PRINTLEFT$(SS$(J,1),8);:PRINTT
B(13-LEN(SS$(J,3)))SS$(J,3); :rem 162
3400 PRINTTAB(22-LEN(SS$(J,7)))SS$(J,7);:PRINTTAB(
32-LEN(SS$(J,6)))SS$(J,6); :rem 130
3410 PRINTTAB(39-LEN(SS$(J,8)))SS$(J,8):LL=LL+1:IF
LL=>KKTHENGOSUB3720 :rem 200
3420 NEXTJ :rem 82
3430 IFIO$(1,1)=" "THEN3510 :rem 109
3440 PRINT:LL=LL+1:IFLL=>KKTHENGOSUB3720 :rem 72
3450 PRINTTX$(3):PRINT:LL=LL+2:IFLL=>KKTHENGOSUB37
20 :rem 101
3460 FORJ=1TOMTX-1:PRINTLEFT$(IO$(J,1),8);:PRINTT
B(22-LEN(IO$(J,5)))IO$(J,5); :rem 123
3470 PRINTTAB(32-LEN(IO$(J,6)))IO$(J,6); :rem 242
3480 PRINTTAB(39-LEN(IO$(J,8)))IO$(J,8):LL=LL+1
:rem 198
3490 IFLL=>KKTHENGOSUB3720 :rem 131
3500 NEXTJ :rem 81
3510 PRINT:LL=LL+1:IFLL=>KKTHENGOSUB3720 :rem 70
3520 PRINT "SUMMARY:":PRINT:LL=LL+2:IFLL=>KKTHENGOS
UB3720 :rem 187
3530 PRINTTAB(1)L$(17)" BONDS";:PRINTTAB(22-LEN(T6
$))T6$; :rem 22
3540 PRINTTAB(32-LEN(T7$))T7$; :rem 220
3550 PRINTTAB(39-LEN(T8$))T8$:LL=LL+1:IFLL=>KKTHEN
GOSUB3720 :rem 155
3560 PRINTTAB(1)L$(17)" STKS";:PRINTTAB(22-LEN(T1$
))T1$; :rem 222
3570 PRINTTAB(32-LEN(T4$))T4$; :rem 217
3580 PRINTTAB(39-LEN(T5$))T5$:LL=LL+1:IFLL=>KKTHEN
GOSUB3720 :rem 152
3590 PRINTTAB(1)L$(17)" OTHER";:PRINTTAB(22-LEN(U1
$))U1$; :rem 32
3600 PRINTTAB(32-LEN(U2$))U2$; :rem 209
3610 PRINTTAB(39-LEN(U3$))U3$:LL=LL+1 :rem 163
3620 PRINTTAB(13)" [9 T]"TAB(23)" [9 T]"TAB(33)"
[6 T]:LL=LL+1 :rem 22
3630 IFLL=>KKTHENGOSUB3720 :rem 127
3640 GOSUB2140:PRINTTAB(1)L$(17):PRINTTAB(1)TX$(4)
; :rem 13
3650 PRINTTAB(22-LEN(U4$))U4$;:PRINTTAB(32-LEN(U5$
))U5$; :rem 33
3660 PRINTTAB(39-LEN(U6$))U6$:LL=LL+2:IFLL=>KKTHEN
GOSUB3720 :rem 156
3670 PRINT "{DOWN}HARD COPY (Y/N) ?" :rem 114
3680 GETA$:IFA$=" "THEN3680 :rem 197
3690 IFA$="N"THEN2540 :rem 143
3700 IFA$<>"Y"THEN3680 :rem 213

```

```

3710 GOTO3800 :rem 207
3720 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE"
:rem 235
3730 GETA$:IFA$<>"C"THEN3730 :rem 61
3740 LL=0:PRINT "{CLR}":PRINTN$TAB(36)"140" :rem 20
3750 PRINTTX$(4)TAB(39-LEN(SS$(1,10)))SS$(1,10):PR
INT :rem 27
3760 PRINTTAB(7)"INVESTMENTS INCOME SUMMARY"
:rem 73
3770 PRINTTAB(7)"[26 T]" :rem 143
3780 PRINT"COMPANY"TAB(10)"QTY"TAB(17)"COST"TAB(27
)"DIV"TAB(33)"%YIELD" :rem 184
3790 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
:rem 198
3800 OPEN4,4,1:LB$=LEFT$(S$,57-LEN(N$)):PRINT#4,LA
$:N$;LB$;"140";LF$ :rem 47
3810 PRINT#4,LA$;"INVESTMENTS{35 SPACES}DATE:";
:rem 255
3820 LB$=LEFT$(S$,3):PRINT#4,LB$;SS$(1,10);LF$;LF$
:rem 36
3830 LB$=LEFT$(S$,27):PRINT#4,LB$;"INVESTMENTS INC
OME SUMMARY";LF$ :rem 30
3840 PRINT#4,LB$;"[20 T]";LF$ :rem 189
3850 PRINT#4,LA$;"COMPANY{13 SPACES}QTY{8 SPACES}C
OST{9 SPACES}DIV"; :rem 124
3860 LB$=LEFT$(S$,7):PRINT#4,LB$;"%YIELD";LF$
:rem 66
3870 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
RINT#4,LF$;LF$ :rem 139
3880 IFBO$(1,1)=" "THEN3950 :rem 119
3890 PRINT#4,LA$;TX$(1);LF$;LF$;FORJ=1TOMOX-1:PRIN
T#4,LA$;BO$(J,1); :rem 240
3900 RA$=LEFT$(S$,23-LEN(BO$(J,1))-LEN(BO$(J,3))):
PRINT#4,RA$;BO$(J,3); :rem 164
3910 RA$=LEFT$(S$,13-LEN(BO$(J,7))):PRINT#4,RA$;BO
$(J,7); :rem 162
3920 RA$=LEFT$(S$,12-LEN(BO$(J,6))):PRINT#4,RA$;BO
$(J,6); :rem 160
3930 RA$=LEFT$(S$,12-LEN(BO$(J,8))):PRINT#4,RA$;BO
$(J,8);LF$;NEXTJ :rem 30
3940 PRINT#4,LF$;LF$ :rem 135
3950 IFSS$(1,1)=" "THEN4020 :rem 127
3960 PRINT#4,LA$;TX$(2);LF$;LF$;FORJ=1TOMSX-1:PRIN
T#4,LA$;SS$(J,1); :rem 8
3970 RA$=LEFT$(S$,23-LEN(SS$(J,1))-LEN(SS$(J,3))):
PRINT#4,RA$;SS$(J,3); :rem 234
3980 RA$=LEFT$(S$,13-LEN(SS$(J,7))):PRINT#4,RA$;SS
$(J,7); :rem 211
3990 RA$=LEFT$(S$,12-LEN(SS$(J,6))):PRINT#4,RA$;SS
$(J,6); :rem 209

```

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```
4000 RA$=LEFT$(S$,12-LEN(SS$(J,8))):PRINT#4,RA$;SS
    $(J,8);LF$:NEXTJ :rem 61
4010 PRINT#4,LF$;LF$ :rem 124
4020 IFIO$(1,1)="THEN4080 :rem 108
4030 PRINT#4,LA$;TX$(3);LF$;LF$:FORJ=1TOMTX-1:PRIN
    T#4,LA$;IO$(J,1); :rem 241
4040 RA$=LEFT$(S$,36-LEN(IO$(J,1))-LEN(IO$(J,5))):
    PRINT#4,RA$;IO$(J,5); :rem 189
4050 RA$=LEFT$(S$,12-LEN(IO$(J,6))):PRINT#4,RA$;IO
    $(J,6); :rem 169
4060 RA$=LEFT$(S$,12-LEN(IO$(J,8))):PRINT#4,RA$;IO
    $(J,8);LF$:NEXTJ :rem 39
4070 PRINT#4,LF$;LF$ :rem 130
4080 PRINT#4,LA$;"SUMMARY:";LF$;LF$:LB$=LEFT$(S$,1
    7) :rem 42
4090 PRINT#4,LB$;L$(17);" BONDS"; :rem 35
4100 LB$=LEFT$(S$,18-LEN(T6$)):PRINT#4,LB$;T6$;
    :rem 139
4110 LB$=LEFT$(S$,12-LEN(T7$)):PRINT#4,LB$;T7$;
    :rem 136
4120 LB$=LEFT$(S$,12-LEN(T8$)):PRINT#4,LB$;T8$;LF$
    :rem 65
4130 LB$=LEFT$(S$,17):PRINT#4,LB$;L$(17);" STOCKS"
    ; :rem 83
4140 LB$=LEFT$(S$,17-LEN(T1$)):PRINT#4,LB$;T1$;
    :rem 132
4150 LB$=LEFT$(S$,12-LEN(T4$)):PRINT#4,LB$;T4$;
    :rem 134
4160 LB$=LEFT$(S$,12-LEN(T5$)):PRINT#4,LB$;T5$;LF$
    :rem 63
4170 LB$=LEFT$(S$,17):PRINT#4,LB$;L$(17);" OTHER";
    :rem 2
4180 LB$=LEFT$(S$,18-LEN(U1$)):PRINT#4,LB$;U1$;
    :rem 139
4190 LB$=LEFT$(S$,12-LEN(U2$)):PRINT#4,LB$;U2$;
    :rem 136
4200 LB$=LEFT$(S$,12-LEN(U3$)):PRINT#4,LB$;U3$;LF$
    :rem 56
4210 LB$=LEFT$(S$,37):PRINT#4,LB$;"[7 T]{3 SPACES}
    [7 T]{5 SPACES}[5 T]";LF$ :rem 232
4220 LB$=LEFT$(S$,17):PRINT#4,LB$;L$(17);" ";TX$(4
    ); :rem 12
4230 LB$=LEFT$(S$,12-LEN(U4$)):PRINT#4,LB$;U4$;
    :rem 135
4240 LB$=LEFT$(S$,12-LEN(U5$)):PRINT#4,LB$;U5$;
    :rem 138
4250 LB$=LEFT$(S$,12-LEN(U6$)):PRINT#4,LB$;U6$;LF$
    :rem 67
4260 LB$=LEFT$(S$,37):PRINT#4,LB$;"[7 T]{3 SPACES}
    [7 T]{5 SPACES}[5 T]";CR$ :rem 240
```

```

4270 PRINT#4, LB$; "DDDDDDD{3 SPACES}DDDDDDD
      {5 SPACES}DDDDD"; LF$: FORSP=1 TO 12: PRINT#4, LF$:
      NEXT                                :rem 60
4280 PRINT#4: CLOSE4: GOTO2540           :rem 212
4290 POKEBO, 5: POKEBA, 5: POKE646, 1: GOSUB4680 :rem 47
4300 FORJ=1 TOMSX-1: PRINTSS$(J, 3) TAB(5) LEFT$(SS$(J,
      1), 8);                               :rem 72
4310 PRINTTAB(21-LEN(SS$(J, 5))) SS$(J, 5);: PRINTTAB(
      30-LEN(SS$(J, 14))) SS$(J, 14);       :rem 218
4320 PRINTTAB(39-LEN(SS$(J, 15))) SS$(J, 15): LL=LL+1:
      I FLL=>KK THEN4340                     :rem 164
4330 NEXTJ: I FJ=>MSX THEN4370           :rem 214
4340 PRINT: PRINTTAB(9)"PRESS 'C' TO CONTINUE"
                                             :rem 234
4350 GETA$: IFA$<>"C" THEN4350           :rem 59
4360 GOSUB4680: I FJ<MSX THEN4330        :rem 95
4370 PRINTTAB(13)"[8 T]" TAB(22)"[8 T]" TAB(31)"
      [8 T]": LL=LL+1                       :rem 22
4380 I FLL=>KK THEN4340                 :rem 1
4390 PRINTTAB(5) L$(17)" $": PRINT"{UP}" TAB(21-LEN(T
      1$)) T1$;                               :rem 92
4400 PRINTTAB(30-LEN(T2$)) T2$;          :rem 204
4410 PRINTTAB(39-LEN(T3$)) T3$: PRINT"{DOWN}" HARD COP
      Y (Y/N) ?"                             :rem 121
4420 GETA$: IFA$=" " THEN4420           :rem 183
4430 IFA$="N" THEN2540                  :rem 136
4440 IFA$<>"Y" THEN4420                 :rem 208
4450 OPEN4, 4, 1: LB$=LEFT$(S$, 58-LEN(N$)): PRINT#4, LA
      $; N$; LB$; "30"; LF$                  :rem 0
4460 PRINT#4, LA$; "STOCKS{40 SPACES}DATE:"; :rem 120
4470 LB$=LEFT$(S$, 3): PRINT#4, LB$; SS$(1, 10); LF$; LF$
                                             :rem 38
4480 LB$=LEFT$(S$, 27): PRINT#4, LB$; "GAIN/LOSS SUMMA
      RY (STOCKS)"; LF$                      :rem 188
4490 PRINT#4, LB$; "[19 T]"; LF$         :rem 28
4500 PRINT#4, LA$; "SH{4 SPACES}COMPANY{16 SPACES}CO
      ST{8 SPACES}PRICE";                   :rem 162
4510 LB$=LEFT$(S$, 8): PRINT#4, LB$; "G/L"; LF$ :rem 98
4520 PRINT#4, LA$; : FORL=1 TO 45: PRINT#4, "[T]"; : NEXT: P
      RINT#4, LF$; LF$: FORJ=1 TOMSX-1      :rem 86
4530 LB$=LEFT$(S$, 13-LEN(SS$(J, 3))) : PRINT#4, LB$; SS
      $(J, 3);                               :rem 185
4540 LB$=LEFT$(S$, 3): PRINT#4, LB$; SS$(J, 1); :rem 102
4550 LB$=LEFT$(S$, 29-LEN(SS$(J, 1))-LEN(SS$(J, 5))):
      PRINT#4, LB$; SS$(J, 5);               :rem 229
4560 LB$=LEFT$(S$, 13-LEN(SS$(J, 14))) : PRINT#4, LB$; S
      S$(J, 14);                             :rem 32
4570 LB$=LEFT$(S$, 12-LEN(SS$(J, 15))) : PRINT#4, LB$; S
      S$(J, 15); LF$                         :rem 216
4580 NEXTJ: I FJ=MSX THEN4590           :rem 163

```

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```
4590 LB$=LEFT$(S$,34):PRINT#4,LB$;"[8 T]{3 SPACES}
      [8 T]{3 SPACES}[7 T]";LF$           :rem 124
4600 LB$=LEFT$(S$,17):PRINT#4,LB$;L$(17);" $";
                                           :rem 162
4610 LB$=LEFT$(S$,21-LEN(T1$)):PRINT#4,LB$;T1$;
                                           :rem 129
4620 LB$=LEFT$(S$,13-LEN(T2$)):PRINT#4,LB$;T2$;
                                           :rem 133
4630 LB$=LEFT$(S$,12-LEN(T3$)):PRINT#4,LB$;T3$;LF$
                                           :rem 61
4640 LB$=LEFT$(S$,34):PRINT#4,LB$;"[8 T]{3 SPACES}
      [8 T]{3 SPACES}[7 T]";CR$          :rem 123
4650 PRINT#4,LB$;"DDDDDDDD{3 SPACES}DDDDDDDD
      {3 SPACES}DDDDDDDD";LF$           :rem 157
4660 FORSP=1TO12:PRINT#4,LF$;NEXT        :rem 71
4670 PRINT#4:CLOSE4:GOTO2540             :rem 215
4680 LL=0:PRINT"{CLR}":PRINT#4TAB(37)"30" :rem 231
4690 PRINT"STOCKS"TAB(39-LEN(SS$(1,10)))SS$(1,10):
      PRINT                               :rem 229
4700 PRINTTAB(6)"GAIN/LOSS SUMMARY (STOCKS)"
                                           :rem 223
4710 PRINTTAB(6)"[26 T]"                 :rem 137
4720 PRINT"SH"TAB(5)"COMPANY"TAB(17)"COST"TAB(25)"
      PRICE"TAB(35)"G/L"                 :rem 218
4730 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
                                           :rem 193
4740 POKEBO,14:POKEBA,6:POKE646,14       :rem 8
4750 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
      DISK":PRINT                         :rem 10
4760 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
      ROGRAM DISK":PRINT                  :rem 64
4770 PRINT"{4 DOWN}"                     :rem 231
4780 PRINTTAB(9)"PRESS 'C' TO CONTINUE"  :rem 43
4790 GETA$:IFA$=""THEN4790                :rem 203
4800 IFA$<>"C"THEN4790                   :rem 196
4810 POKE631,83:POKE632,89:POKE633,83    :rem 106
4820 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13                :rem 76
4830 POKE198,9:NEW                         :rem 41
```

PROPERTY

Remember to use the name above for the program you place on the PAM master disk.

```
20 DIML$(30),M$(12):N=100:MP=1:MR=1:ML=1:MA=1:MI=1
   :MH=1                                     :rem 133
30 RE=0:AP=0:AU=0:PI=0:HG=0:BO=53280:BA=53281:DIMP
   R$(N,6)                                   :rem 52
40 NN$="-":AT$="" :SM$="" :RM$="" :TM$="" :UM$="" :WM$=""
   "                                           :rem 165
```

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```

50 N$="":N1$="":N2$="":N3$="":N4$="":LL$=" :rem 43
60 RE$="":AP$="":AU$="":PI$="":HG$=" :rem 75
70 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
  =0 :rem 146
80 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
  0):LB$="":RA$=" :rem 31
90 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH":
  M$(4)="APRIL :rem 40
100 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="A
  UGUST :rem 57
110 M$(9)="SEPTEMBER":M$(10)="OCTOBER :rem 127
120 M$(11)="NOVEMBER":M$(12)="DECEMBER":Q1$="REAL
  {SPACE}ESTATE :rem 214
130 Q2$="HOUSEHOLD GOODS":Q3$="APPLIANCES":Q4$="AU
  TOMOBILES :rem 172
140 Q5$="PERSONAL ITEMS":R$(1)="LIVING ROOM":R$(2)
  ="DINING ROOM :rem 231
150 R$(3)="KITCHEN":R$(4)="BATHROOM (S)":R$(5)="MA
  STER BEDROOM :rem 54
160 R$(6)="BEDROOM NO. 2":R$(7)="BEDROOM NO. 3":R$
  (8)="ATTIC :rem 230
170 R$(9)="CELLAR/GARAGE/SHED":POKEBO,2:POKEBA,2:P
  OKE646,1:PRINT"{CLR}{3 DOWN} :rem 172
180 PRINTTAB(16)"PROPERTY":FORD=1TO5000:NEXT
  :rem 50
190 POKEBO,14:POKEBA,6:POKE646,14 :rem 211
200 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR
  AM DISK":PRINT :rem 200
210 PRINTTAB(18)"AND":PRINT:PRINTTAB(12)"INSERT DA
  TA DISK":PRINT:PRINT"{4 DOWN} :rem 51
220 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 202
230 GETA$:IFA$<>"C"THEN230 :rem 205
240 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}
  {2 DOWN}":PRINTTAB(16)"PROPERTY":PRINT:PRINT
  :rem 51
250 PRINT"LOADING PERSONAL DATA ";F$="PERSDATA
  :rem 118
260 OPEN8,8,8,"0":"+F$+",S,R":INPUT#8,YR$,N$,N1$,N2
  $,N3$,N4$:PRINT".": :rem 25
270 FORJ=1TO30:INPUT#8,L$(J):NEXT:PRINT".":CLOSE
  8:GOSUB2990:IFE>19THEN190 :rem 124
280 POKEBO,14:POKEBA,14:POKE646,1:RE=0:AP=0:AU=0:P
  I=0:HG=0:MP=1:PR$=" :rem 155
290 PRINT"{CLR}{2 DOWN}":PRINTTAB(16)"PROPERTY":PR
  INTTAB(9)"{DOWN}1.{2 SPACES}REAL ESTATE
  :rem 228
300 PRINTTAB(9)"{DOWN}2.{2 SPACES}HOUSEHOLD GOODS"
  :PRINTTAB(9)"{DOWN}3.{2 SPACES}APPLIANCES
  :rem 249

```

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```
310 PRINTTAB(9)"{DOWN}4.{2 SPACES}AUTOMOBILES":PRI
    NNTAB(9)"{DOWN}5.{2 SPACES}PERSONAL ITEMS
                                     :rem 33
320 PRINTTAB(9)"{DOWN}6.{2 SPACES}VALUE ALL PROPER
    TY":PRINTTAB(9)"{DOWN}7.{2 SPACES}MAIN MENU
                                     :rem 49
330 PRINTTAB(10)"{3 DOWN}PRESS DESIRED NUMBER
                                     :rem 87
340 GETA$:IFA$=" "THEN340
                                     :rem 81
350 IFA$<"1"ORA$>"7"THEN340
                                     :rem 194
360 AA=VAL(A$):ONAAGOTO710,2420,2550,2600,2640,305
    0,3440
                                     :rem 222
370 PRINT"{CLR}"{3 DOWN}":PRINTTAB(12)"ENTER/CHANGE
    DATA":PRINTTAB(11)"{DOWN}1.{2 SPACES}ADD NEW
    {SPACE}ITEM
                                     :rem 249
380 PRINTTAB(11)"{DOWN}2.{2 SPACES}CORRECTIONS":PR
    INTTAB(11)"{DOWN}3.{2 SPACES}DELETE
                                     :rem 74
390 PRINTTAB(11)"{DOWN}4.{2 SPACES}DISPLAY":PRINTT
    AB(11)"{DOWN}5.{2 SPACES}RETURN TO MENU:rem 31
400 PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER
                                     :rem 102
410 GETA$:IFA$=" "THEN410
                                     :rem 77
420 IFA$<"1"ORA$>"5"THEN410
                                     :rem 188
430 AA=VAL(A$):ONAAGOTO440,450,460,640,280
                                     :rem 48
440 GOSUB750:GOTO470
                                     :rem 194
450 GOSUB1030:GOTO470
                                     :rem 235
460 GOSUB1280:GOTO470
                                     :rem 243
470 IFRE=1THEN730
                                     :rem 248
480 IFHG=1THEN2520
                                     :rem 32
490 IFAP=1THEN2580
                                     :rem 41
500 IFAU=1THEN2620
                                     :rem 33
510 IFPI=1THEN2660
                                     :rem 41
520 GOTO370
                                     :rem 106
530 POKEBO,13:POKEBA,13:POKE646,0:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(11)"ROOM LOCATOR CHART
                                     :rem 208
540 PRINTTAB(10)"{DOWN}1.{2 SPACES}LIVING ROOM":PR
    INTTAB(10)"2.{2 SPACES}DINING ROOM
                                     :rem 49
550 PRINTTAB(10)"3.{2 SPACES}KITCHEN":PRINTTAB(10)
    "4.{2 SPACES}BATHROOM (S)
                                     :rem 47
560 PRINTTAB(10)"5.{2 SPACES}MASTER BEDROOM":PRINT
    TAB(10)"6.{2 SPACES}BEDROOM NO. 2
                                     :rem 7
570 PRINTTAB(10)"7.{2 SPACES}BEDROOM NO. 3":PRINTT
    AB(10)"8.{2 SPACES}ATTIC
                                     :rem 174
580 PRINTTAB(10)"9.{2 SPACES}CELLAR/GARAGE/SHED
                                     :rem 24
590 PRINTTAB(10)"{4 DOWN}PRESS 'C' TO CONTINUE
                                     :rem 64
600 GETA$:IFA$=" "THEN600
                                     :rem 79
610 IFA$<>"C"THEN600
                                     :rem 81
```

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```

620 PRINT"{CLR}{2 DOWN}":IFHG=1THEN2480      :rem 225
630 GOTO820                                     :rem 108
640 POKEBO,13:POKEBA,13:POKE646,0:PRINT"{CLR}
    {3 DOWN}":PRINTTAB(16)"DISPLAY           :rem 42
650 PRINTTAB(9)"{DOWN}1.{2 SPACES}INDIVIDUAL ITEM"
    :PRINTTAB(9)"{DOWN}2.{2 SPACES}SUMMARY LISTING
    :rem 88
660 PRINTTAB(9)"{DOWN}3.{2 SPACES}VALUE HOUSE/GOOD
    S":PRINTTAB(9)"{DOWN}4.{2 SPACES}VALUE ALL PRO
    PERTY                                     :rem 132
670 PRINTTAB(9)"{DOWN}5.{2 SPACES}RETURN TO MENU":
    PRINTTAB(10)"{4 DOWN}PRESS DESIRED NUMBER
    :rem 7
680 GETB$:IFB$=" "THEN680                     :rem 97
690 IFB$<"1"ORB$>"5"THEN680                 :rem 208
700 BB=VAL(B$):ONBBGOTO1630,1490,1830,3050,280:GOT
    O370                                       :rem 9
710 POKEBO,5:POKEBA,5:POKE646,1:PRINT"{CLR}":PRINT
    "REAL ESTATE":PRINT                       :rem 198
720 RE=1:PN=2000:NB$=Q1$:F$="REAL ESTATE":GOSUB293
    0:GOTO370                                   :rem 234
730 F$="REAL ESTATE":GOSUB2890:IFE>19THEN370
    :rem 123
740 RE=0:GOTO640                               :rem 172
750 POKEBO,9:POKEBA,9:POKE646,1:PRINT"{CLR}":PRINT
    "PROPERTY":PRINT:GOSUB1010                 :rem 233
760 FORJ=MPTON:H=J:IFHG=1THENH=100*RO+J:H$=STR$(H)
    :H$=MID$(H$,2)                               :rem 130
770 IFJ=NTHEN1020                              :rem 244
780 PRINT"ITEM NO. ";H:J$=STR$(J):J$=MID$(J$,2):PRI
    NT                                          :rem 81
790 K=1:IFRE=1THENPR$(J,K)=J$:GOTO850        :rem 233
800 IFHG=1THENPR$(J,K)=RO$+NN$+H$:GOTO850    :rem 191
810 PRINT"TO SEE ROOM LOCATOR CHART PRESS '0'
    :rem 150
820 INPUT"ROOM NO. ";RO$:IFVAL(RO$)<0ORVAL(RO$)>9TH
    EN820                                       :rem 126
830 IFRO$=""0"THEN530                         :rem 103
840 PR$(J,1)=RO$+NN$+J$                       :rem 224
850 K=2:PRINT"ENTER DATE (MONTH 2 DIGITS, DAY 2
    :rem 188
860 PRINT"DIGITS, YEAR 2 DIGITS).{2 SPACES}SAMPLE:
    :rem 183
870 PRINT"032484 FOR MARCH 24, 1984":PRINT:INPUT"D
    ATE BOUGHT";PR$(J,K):K=3                 :rem 35
880 INPUT"DESCRIPTIVE NAME: ";PR$(J,K)       :rem 36
890 IFLEN(PR$(J,K))>17THENPR$(J,K)=LEFT$(PR$(J,K),
    17)                                         :rem 46
900 K=4:INPUT"MODEL NO. ";PR$(J,K):K=5:INPUT"SERIA
    L NO. ";PR$(J,K):K=6                     :rem 193

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910 INPUT"COST:";PR$(J,K):P$=PR$(J,K)           :rem 183
920 GOSUB3020:IFEF=1THEN910                       :rem 107
930 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)="."THEN950
                                                    :rem 233
940 PRINT"ERROR--AMOUNT NOT IN X.XX FORM":SYS828:F
ORD=1TOL000:NEXT:GOTO910                          :rem 176
950 MP=MP+1:PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"ANOT
HER ITEM? (Y/N)                                   :rem 141
960 GETA$:IFA$=" "THEN960                          :rem 97
970 IFA$="N"THENJ=N:GOTOL000                      :rem 155
980 IFA$<>"Y"THEN960                              :rem 122
990 GOSUBL010                                       :rem 228
1000 NEXT:GOSUB2770:PQ$=P3$:GOSUB2790:RETURN
                                                    :rem 19
1010 PRINT"{CLR}PROPERTY":PRINT:RETURN           :rem 140
1020 PRINT:PRINT"FILE IS FULL":SYS828:FORD=1TOL000
:NEXT:GOTO280                                       :rem 226
1030 PRINT"{CLR}":POKEBO,9:POKEBA,9:POKE646,1
                                                    :rem 62
1040 PRINT"PROPERTY":PRINT:PRINTTAB(15)"CORRECTION
S":PRINT                                           :rem 141
1050 LL=0:K=14:PRINT:PRINT"ITEM NO.{2 SPACES}BOUGH
T{2 SPACES}DESCRIPTION":PRINT:FORJ=1TOMP-1
                                                    :rem 9
1060 PRINTPR$(J,1)TAB(10)PR$(J,2)TAB(18)PR$(J,3):L
L=LL+1:IFLL=>KTHEN1080                             :rem 205
1070 NEXT:IFJ=>MPTHEN1120                          :rem 37
1080 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
                                                    :rem 198
1090 GETA$:IFA$<>"C"THEN1090                       :rem 55
1100 LL=0:PRINT"{CLR}":PRINTTAB(15)"{DOWN}CORRECTI
ONS":PRINT                                         :rem 33
1110 PRINT"ITEM NO.{2 SPACES}BOUGHT{2 SPACES}DESCR
IPTION":PRINT:GOTO1070                             :rem 157
1120 PRINT:INPUT"ITEM NO. TO CORRECT";A$         :rem 174
1130 IFA$=" "THEN1130                              :rem 46
1140 PRINT"{CLR}":PRINT"CORRECT ITEM ";A$:PRINT:FO
RJJ=1TOMP-1                                         :rem 158
1150 IFPR$(JJ,1)=A$THENA=JJ:JJ=MP-1:NEXT:GOTOL170
                                                    :rem 252
1160 NEXT:GOTO280                                   :rem 20
1170 PRINT"PRESS RETURN IF NO CHANGE:":PRINT:PRINT
:JJ=A                                              :rem 237
1180 PRINT"ITEM NO.:":PRINTTAB(10)PR$(JJ,1);:INPU
TPR$(JJ,1)                                         :rem 111
1190 PRINT"BOUGHT:":PRINTTAB(10)PR$(JJ,2);:INPUTP
R$(JJ,2)                                           :rem 65
1200 PRINT"DESCRIPTION:":PRINTTAB(10)PR$(JJ,3);:I
NPUTPR$(JJ,3)                                      :rem 182

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1210 PRINT "MODEL NO.:";PRINTTAB(10)PR$(JJ,4);:INP
      UTPR$(JJ,4)                                :rem 177
1220 PRINT "SERIAL NO.:";PRINTTAB(10)PR$(JJ,5);:IN
      PUTPR$(JJ,5)                                :rem 3
1230 PRINT "AMOUNT:";:PRINTTAB(10)PR$(JJ,6);:INPUTP
      R$(JJ,6):P$=PR$(JJ,6)                      :rem 71
1240 GOSUB3020:IFEF=1THEN1230                    :rem 195
1250 Z$=RIGHT$(P$,3):IFMID$(Z$,1,1)=". "THEN1270
      :rem 65
1260 PRINT "ERROR--AMOUNT NOT IN X.XX FORM":SYS828:
      FORD=1TOL000:NEXT:GOTO1230                  :rem 8
1270 GOSUB2790:GOSUB2770:PQ$=P3$:RETURN         :rem 163
1280 PRINT "{CLR}":POKEBO,2:POKEBA,2:POKE646,1
      :rem 55
1290 PRINT "PROPERTY":PRINT:PRINTTAB(16)"DELETIONS"
      :PRINT                                        :rem 241
1300 LL=0:K=14:PRINT "{CLR}":PRINTTAB(16)"DELETIONS"
      :PRINT                                        :rem 150
1310 PRINT "ITEM NO.{2 SPACES}BOUGHT{2 SPACES}DESCR
      IPTION":PRINT:FORJ=1TOMP-1                  :rem 219
1320 PRINTPR$(J,1)TAB(10)PR$(J,2)TAB(18)PR$(J,3):L
      L=LL+1:IFLL=>KTHEN1340                       :rem 203
1330 NEXT:IFJ=>MPTHEN1380                         :rem 44
1340 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
      :rem 197
1350 GETA$:IFA$<>"C"THEN1350                      :rem 53
1360 LL=0:PRINT "{CLR}":PRINTTAB(16)"{DOWN}DELETION
      S":PRINT                                        :rem 134
1370 PRINT "ITEM NO.{2 SPACES}BOUGHT{2 SPACES}DESCR
      IPTION":PRINT:GOTO1330                      :rem 164
1380 PRINT:PRINT "PRESS 'C' TO CONTINUE OR ANY KEY
      {SPACE}TO EXIT                               :rem 183
1390 GETA$:IFA$=""THEN1390                       :rem 189
1400 IFA$<>"C"THEN280                             :rem 131
1410 PRINT:INPUT "ITEM NO. TO DELETE";A$        :rem 81
1420 IFA$=""THEN1420                              :rem 50
1430 PRINT "{CLR}":PRINT "DELETE ITEM ";A$:PRINT
      :rem 128
1440 FORJJ=1TOMP-1:IFPR$(JJ,1)=A$THENGOSUB1460
      :rem 61
1450 NEXT:GOSUB2790:GOSUB2770:PQ$=P3$:RETURN
      :rem 28
1460 PR$(JJ,2)="-----":PR$(JJ,3)="---EMPTY---"
      :rem 163
1470 PR$(JJ,4)="-----":PR$(JJ,5)="-----"
      :rem 219
1480 PR$(JJ,6)="0.00":RETURN                      :rem 51
1490 PRINT "{CLR}":KK=14:GOSUB2350              :rem 40
1500 IFMP=<1THENPRINT "NO ITEMS":FORD=1TOL000:NEXT:
      SYS828:GOTO280                              :rem 83

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1510 FORJ=1TOMP-1:PRINTPR$(J,1);:PRINTTAB(6)PR$(J,
    2);:PRINTTAB(13)PR$(J,3);:rem 49
1520 PRINTTAB(39-LEN(PR$(J,6)))PR$(J,6):LL=LL+1:IF
    LL=KKTHEN1540:rem 252
1530 NEXT:IFJ=>MPTHEN1570:rem 47
1540 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE
    :rem 199
1550 GETA$:IFA$<>"C"THEN1550:rem 57
1560 GOSUB2350:GOTO1530:rem 82
1570 PRINTTAB(30)"[9 T]":PRINTTAB(29)"$";:PRINTTAB
    ((39-LEN(PQ$)))PQ$:rem 116
1580 PRINT:PRINT"HARD COPY? (Y/N):rem 4
1590 GETA$:IFA$="Y"THEN1590:rem 193
1600 IFA$="Y"THEN2200:rem 136
1610 IFA$<>"N"THEN1590:rem 198
1620 GOTO280:rem 156
1630 PRINT"{CLR}{2 DOWN}":PRINT"TYPE 'ALL' IF YOU
    {SPACE}WISH TO SEE ALL ITEMS.:rem 114
1640 PRINT:INPUT"ENTER ITEM NO.":A$:rem 126
1650 IFA$="":THEN1650:rem 60
1660 IFA$="ALL"THENJJ=1:GOTO1710:rem 136
1670 FORJJ=1TOMP-1:IFPR$(JJ,1)=A$THENA=JJ:JJ=MP-1:
    NEXT:GOTO1690:rem 203
1680 NEXT:GOTO280:rem 27
1690 JJ=A:rem 226
1700 IFJJ=MPTHEN1780:rem 196
1710 GOSUB2400:IFMP=<1THENPRINT"NO ITEMS":FORD=1TO
    1000:NEXT:SYS828:GOTO280:rem 214
1720 PRINT"ITEM NO.:{5 SPACES}":PR$(JJ,1):PRINT"BO
    UGHT:{7 SPACES}":PR$(JJ,2):rem 100
1730 PRINT"DESCRIPTION:{2 SPACES}":PR$(JJ,3):PRINT
    "MODEL NO.:{4 SPACES}":PR$(JJ,4):rem 38
1740 PRINT"SERIAL NO.:{3 SPACES}":PR$(JJ,5):PRINT"
    COST:{9 SPACES}":PR$(JJ,6):rem 111
1750 PRINT:PRINT:PRINT:PRINTTAB(9)"PRESS 'C' TO CO
    NTINUE:rem 88
1760 GETB$:IFB$<>"C"THEN1760:rem 65
1770 IFA$="ALL"THENJJ=JJ+1:GOTO1700:rem 72
1780 PRINT:PRINT"HARD COPY? (Y/N):rem 6
1790 GETB$:IFB$="":THEN1790:rem 199
1800 IFB$="Y"THEN2080:rem 145
1810 IFB$<>"N"THEN1790:rem 203
1820 GOTO280:rem 158
1830 POKEBO,12:POKEBA,12:POKE646,1:rem 252
1840 PRINT"{CLR}":PRINTNSTAB(37)"24":PRINT"PROPERT
    Y":PRINT:rem 253
1850 PRINTTAB(11)"VALUE HOUSE/GOODS":PRINTTAB(11)"
    [17 T]":PRINT:rem 4
1860 GOSUB1940:rem 29
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1870 FORZ=1TO9:PRINTR$(Z)TAB(39-LEN(H$(Z)))H$(Z):N
EXT:PRINTTAB(30)"[9 T]" :rem 10
1880 PRINTTAB(5)"TOTAL HOUSE/GOODS{4 SPACES}$";:PR
INTTAB(39-LEN(HG$))HG$ :rem 47
1890 PRINT:PRINT"HARD COPY? (Y/N) :rem 8
1900 GETA$:IFA$="THEN1900 :rem 183
1910 IFA$="Y"THEN1980 :rem 154
1920 IFA$<>"N"THEN1900 :rem 197
1930 GOTO280 :rem 160
1940 OPEN15,8,15:P3$="0.00":FORZ=1TO9:Z$=STR$(Z):Z
$=MID$(Z$,2) :rem 30
1950 F$="HSEHLD GOODS"+Z$:OPEN8,8,8,"0:"+F$+"S,R"
:INPUT#8,MH,H$(Z) :rem 7
1960 IFH$(Z)="THENH$(Z)="0.00 :rem 90
1970 P1$=P3$:P2$=H$(Z):GOSUB2680:CLOSE8:NEXT:CLOSE
15:HG$=P3$:RETURN :rem 122
1980 OPEN4,4,1:LB$=LEFT$(S$,58-LEN(N$)):PRINT#4,LA
$:N$;LB$;"24";LF$ :rem 8
1990 PRINT#4,LA$;"PROPERTY";LF$;LF$ :rem 122
2000 LB$=LEFT$(S$,24):PRINT#4,LB$;"VALUE OF HOUSEH
OLD GOODS BY ROOM";LF$ :rem 215
2010 PRINT#4,LB$;"[24 T]";LF$;LF$:FORZ=1TO9
:rem 243
2020 PRINT#4,LA$;R$(Z);:RA$=LEFT$(S$,60-LEN(R$(Z))
-LEN(H$(Z))) :rem 229
2030 PRINT#4,RA$,H$(Z);LF$:NEXT:LB$=LEFT$(S$,57):P
RINT#4,LB$;"[10 T]";LF$ :rem 234
2040 LB$=LEFT$(S$,25):PRINT#4,LB$;"TOTAL HOUSEHOLD
GOODS{5 SPACES}$"; :rem 228
2050 RA$=LEFT$(S$,18-LEN(HG$)):PRINT#4,RA$,HG$;LF$
:rem 87
2060 LB$=LEFT$(S$,57):PRINT#4,LB$;"[10 T]";CR$:PRI
NT#4,LB$;"DDDDDDDDDD" :rem 52
2070 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO280 :rem 79
2080 OPEN4,4,1:LB$=LEFT$(S$,55-LEN(N$)):PRINT#4,LA
$:N$;LB$;PN;LF$ :rem 241
2090 PRINT#4,LA$;NB$;LF$;LF$:LB$=LEFT$(S$,36):PRIN
T#4,LB$;"PROPERTY";LF$ :rem 35
2100 PRINT#4,LB$;"[6 T]";LF$:IFA$="ALL"THENJJ=1
:rem 128
2110 IFJJ=MPTHEN2190 :rem 188
2120 PRINT#4,LA$;"ITEM NO.:{5 SPACES}";PR$(JJ,1);L
F$ :rem 109
2130 PRINT#4,LA$;"BOUGHT:{7 SPACES}";PR$(JJ,2);LF$
:rem 62
2140 PRINT#4,LA$;"DESCRIPTION:{2 SPACES}";PR$(JJ,3
);LF$ :rem 187
2150 PRINT#4,LA$;"MODEL NO.:{4 SPACES}";PR$(JJ,4);
LF$ :rem 181

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2160 PRINT#4,LA$;"SERIAL NO.:{3 SPACES}";PR$(JJ,5)
      ;LF$ :rem 6
2170 PRINT#4,LA$;"COST:{9 SPACES}";PR$(JJ,6);LF$;L
      F$;LF$ :rem 152
2180 IFA$="ALL"THENJJ=JJ+1:GOTO2110 :rem 64
2190 PRINT#4,LF$,LF$:PRINT#4:CLOSE4:GOTO280
      :rem 131
2200 OPEN4,4,1:LB$=LEFT$(S$,55-LEN(N$)):PRINT#4,LA
      $;N$;LB$;PN;LF$ :rem 235
2210 PRINT#4,LA$;NB$;LF$;LF$ :rem 87
2220 LB$=LEFT$(S$,28):PRINT#4,LB$;"PROPERTY SUMMAR
      Y LISTING";LF$ :rem 155
2230 PRINT#4,LB$;"[18 T]";LF$ :rem 111
2240 PRINT#4,LA$;"ITEM#{2 SPACES}BOUGHT{2 SPACES}D
      ESCRIPTION"; :rem 162
2250 LB$=LEFT$(S$,29):PRINT#4,LB$;"VALUE";LF$
      :rem 79
2260 PRINT#4,LA$;:FORL=1TO45:PRINT#4,"[T]";:NEXT:P
      RINT#4,LF$;LF$:FORZ=1TOMP-1 :rem 10
2270 PRINT#4,LA$;" ";PR$(Z,1);:LB$=LEFT$(S$,6-LEN(
      PR$(Z,1))) :rem 28
2280 PRINT#4,LB$;PR$(Z,2);"{2 SPACES}";PR$(Z,3);
      :rem 93
2290 RA$=LEFT$(S$,45-LEN(PR$(Z,3))-LEN(PR$(Z,6))):
      PRINT#4,RA$;PR$(Z,6);LF$:NEXT :rem 67
2300 LB$=LEFT$(S$,57):PRINT#4,LB$;"[10 T]";LF$:LB$
      =LEFT$(S$,30) :rem 252
2310 PRINT#4,LB$;"TOTAL ";NB$;"{5 SPACES}$";
      :rem 88
2320 RA$=LEFT$(S$,28-LEN(NB$)-LEN(PQ$)):PRINT#4,RA
      $;PQ$;LF$ :rem 141
2330 LB$=LEFT$(S$,57):PRINT#4,LB$;"[10 T]";CR$:PRI
      NT#4,LB$;"DDDDDDDDDD :rem 52
2340 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO280 :rem 79
2350 POKEBO,11:POKEBA,11:POKE646,1:LL=0:PRINT"
      {CLR}":PRINTN$TAB(34)PN:PRINT"{UP}"NB$
      :rem 139
2360 PRINT:PRINTTAB(8)"PROPERTY SUMMARY LISTING
      :rem 110
2370 PRINTTAB(8)"[24 T] :rem 35
2380 PRINT"ITEM# BOUGHT DESCRIPTION"TAB(34)"VALUE"
      :rem 77
2390 FORL=1TO39:PRINT"[T]";:NEXT:PRINT:RETURN
      :rem 193
2400 POKEBO,11:POKEBA,11:POKE646,1:LL=0:PRINT"
      {CLR}":PRINTN$TAB(34)PN:PRINT"{UP}"NB$
      :rem 135
2410 PRINT:PRINTTAB(16)"PROPERTY":PRINTTAB(16)"
      [8 T]":RETURN :rem 63

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2420 POKEBO,15:POKEBA,15:POKE646,1:PRINT"{CLR}":HG
    =1:PRINT"HOUSEHOLD GOODS":PRINT          :rem 204
2430 PRINT"DISPLAY VALUE ALL HOUSEHOLD GOODS?(Y/N
    )":PRINT          :rem 90
2440 GETY$:IFY$=""THEN2440                    :rem 231
2450 IFY$="Y"THEN1830                          :rem 172
2460 IFY$<>"N"THEN2440                        :rem 221
2470 PRINT"TO SEE ROOM LOCATOR CHART PRESS '0'":PR
    INT          :rem 179
2480 INPUT"ROOM NO.";RO$:RO=VAL(RO$):IFRO<0ORRO>9T
    HEN2480      :rem 71
2490 IFRO=0THEN530                            :rem 51
2500 PN=2000+100*RO:NB$=R$(RO):MP=1:MH=1:F$="HSEHL
    D GOODS"+RO$ :rem 73
2510 GOSUB2930:GOTO370                        :rem 35
2520 F$="HSEHLD GOODS"+RO$:GOSUB2890:IFE>19THEN370
    :rem 228
2530 GOSUB1940:F$="HSEHLD GOODS":OPEN15,8,15:PRINT
    #15,"S0:"+F$:CLOSE15                      :rem 97
2540 OPEN8,8,8,"0:"+F$+",S,W":PRINT#8,MH", "HG$CR$:
    CLOSE8:HG=0:GOTO640                       :rem 199
2550 POKEBO,4:POKEBA,4:POKE646,1            :rem 158
2560 PRINT"{CLR}":PRINT"APPLIANCES":PRINT:AP=1:PN=
    3000:NB$=Q3$                              :rem 199
2570 F$="APPLIANCES":GOSUB2930:GOTO370       :rem 46
2580 F$="APPLIANCES":GOSUB2890:IFE>19THEN370
    :rem 166
2590 AP=0:GOTO640                             :rem 219
2600 POKEBO,2:POKEBA,2:POKE646,1:PRINT"{CLR}":PRIN
    T"AUTOMOBILES":PRINT                      :rem 74
2610 AU=1:PN=4000:NB$=Q4$:F$="AUTOMOBILES":GOSUB29
    30:GOTO370                                  :rem 120
2620 F$="AUTOMOBILES":GOSUB2890:IFE>19THEN370
    :rem 5
2630 AU=0:GOTO640                             :rem 219
2640 POKEBO,12:POKEBA,12:POKE646,1:PRINT"{CLR}":PR
    INT"PERSONAL ITEMS":PRINT                :rem 82
2650 PI=1:PN=5000:NB$=Q5$:F$="PERSONAL ITEMS":GOSU
    B2930:GOTO370                              :rem 35
2660 F$="PERSONAL ITEMS":GOSUB2890:IFE>19THEN370
    :rem 171
2670 PI=0:GOTO640                             :rem 226
2680 TA=0:TL=0:TR=0:P$=P1$:GOSUB2740:TL=PL-1:TR=PR
    +1:P$=P2$:GOSUB2740                       :rem 193
2690 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA=0THENP3$="0.0
    0":RETURN          :rem 28
2700 IFTA<0THENP3$=STR$(TA-.001)             :rem 91
2710 IFTA>0THENP3$=STR$(TA+.001)             :rem 92
2720 P3$=LEFT$(P3$,LEN(P3$)-1):IFLEFT$(P3$,1)=CHR$
    (32)THENP3$=MID$(P3$,2)                   :rem 31

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2730 RETURN :rem 172
2740 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$) :rem 21
2750 PR$=RIGHT$(P$,3):PR=VAL(PR$):IFPL<0THENPR=PR*
-1 :rem 179
2760 RETURN :rem 175
2770 PRINT:PRINT"SUMMING .";:P1$="0.00":FORZ=1TOMP
-1:P2$=PR$(Z,6):GOSUB2680 :rem 16
2780 P1$=P3$:PRINT".":NEXT:RETURN :rem 97
2790 PRINT:PRINT"SORTING . .":IFMP=<2THEN2880
:rem 57
2800 FORJJ=1TOMP-2:FORKK=JJ+1TOMP-1:IFPR$(KK,1)>PR
$(JJ,1)THEN2870 :rem 237
2810 SM$=PR$(KK,1):RM$=PR$(KK,2):TM$=PR$(KK,3)
:rem 99
2820 UM$=PR$(KK,4):VM$=PR$(KK,5):WM$=PR$(KK,6)
:rem 118
2830 PR$(KK,1)=PR$(JJ,1):PR$(KK,2)=PR$(JJ,2):PR$(K
K,3)=PR$(JJ,3) :rem 52
2840 PR$(KK,4)=PR$(JJ,4):PR$(KK,5)=PR$(JJ,5):PR$(K
K,6)=PR$(JJ,6) :rem 71
2850 PR$(JJ,1)=SM$:PR$(JJ,2)=RM$:PR$(JJ,3)=TM$
:rem 97
2860 PR$(JJ,4)=UM$:PR$(JJ,5)=VM$:PR$(JJ,6)=WM$
:rem 116
2870 NEXT:PRINT".":NEXT :rem 253
2880 RETURN :rem 178
2890 PRINT:PRINT"SAVING . .":OPEN15,8,15:PRINT#15
,"S0:"+F$:CLOSE15 :rem 186
2900 OPEN8,8,8,"0:"+F$+"S,W":PRINT#8,MP","PQ$CR$:
PRINT".":FORJB=1TOMP-1 :rem 227
2910 FORKB=1TO6:PRINT#8,PR$(JB,KB)","PRINT".":N
EXT:NEXT :rem 7
2920 CLOSE8:GOSUB2990:RETURN :rem 35
2930 PRINT:PRINT"LOADING .": :rem 205
2940 OPEN15,8,15:OPEN8,8,8,"0:"+F$+"S,R":INPUT#8,
MP,PQ$ :rem 131
2950 PRINT".":INPUT#15,E,E$:IFE>19THENCLOSE8:CLO
SE15:GOTO2980 :rem 82
2960 FORJB=1TOMP-1:FORKB=1TO6:INPUT#8,PR$(JB,KB):P
RINT".":NEXT:NEXT :rem 88
2970 CLOSE8:CLOSE15 :rem 150
2980 RETURN :rem 179
2990 E=0:OPEN15,8,15:INPUT#15,E,E$ :rem 167
3000 IFE>19THENPRINT:PRINTES:SYS828:FORD=1TO5000:N
EXT :rem 186
3010 CLOSE15:RETURN :rem 186
3020 EF=0:L1=LEN(P$):FORL=1TOL1:T$=MID$(P$,L,1):AB
=ASC(T$):IFAB=46THENNEXT :rem 210
3030 IFAB<48ORAB>57THENL=L1:EF=1:PRINT:PRINT"ERROR
IN INPUT":SYS828 :rem 20

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3040 NEXT:RETURN :rem 32
3050 PRINT "{CLR}":POKEBO,5:POKEBA,5:POKE646,0
:rem 57
3060 PRINTN$TAB(37)"25":PRINT"PROPERTY":PRINT"
{2 DOWN}" :rem 194
3070 PRINTTAB(11)"VALUE ALL PROPERTY":PRINTTAB(11)
" [18 T]":PRINT :rem 210
3080 GOSUB3240 :rem 20
3090 IFRE$=""THENRE$="0.00 :rem 158
3100 PRINTQ1$TAB(39-LEN(RE$))RE$:IFHG$=""THENHG$="
0.00 :rem 90
3110 PRINTQ2$TAB(39-LEN(HG$))HG$:PI$=RE$:P2$=HG$:G
OSUB2680 :rem 129
3120 IFAP$=""THENAP$="0.00" :rem 174
3130 PRINTQ3$TAB(39-LEN(AP$))AP$:PI$=P3$:P2$=AP$:G
OSUB2680 :rem 118
3140 IFAU$=""THENAUS$="0.00" :rem 186
3150 PRINTQ4$TAB(39-LEN(AU$))AU$:PI$=P3$:P2$=AU$:G
OSUB2680 :rem 136
3160 IFPI$=""THENPI$="0.00" :rem 194
3170 PRINTQ5$TAB(39-LEN(PI$))PI$:PI$=P3$:P2$=PI$:G
OSUB2680:PQ$=P3$ :rem 119
3180 PRINTTAB(30)" [9 T]":PRINTTAB(5)"TOTAL PROPERT
Y{8 SPACES}$": :rem 179
3190 PRINTTAB(39-LEN(PQ$))PQ$:PRINT:PRINT"HARD COP
Y? (Y/N) :rem 69
3200 GETA$:IFA$=""THEN3200 :rem 173
3210 IFA$="Y"THEN3310 :rem 138
3220 IFA$<>"N"THEN3200 :rem 187
3230 GOTO280 :rem 155
3240 OPEN15,8,15:F$="REAL ESTATE" :rem 102
3250 OPEN8,8,8,"0:"+F$+" ,S,R":INPUT#8,MR,RE$:CLOSE
8 :rem 150
3260 F$="AUTOMOBILES":OPEN8,8,8,"0:"+F$+" ,S,R":INP
UT#8,MA,AU$:CLOSE8 :rem 238
3270 F$="APPLIANCES":OPEN8,8,8,"0:"+F$+" ,S,R":INPU
T#8,ML,AP$:CLOSE8 :rem 145
3280 F$="PERSONAL ITEMS":OPEN8,8,8,"0:"+F$+" ,S,R":
INPUT#8,MI,PI$:CLOSE8 :rem 157
3290 F$="HSEHLD GOODS":OPEN8,8,8,"0:"+F$+" ,S,R"
:rem 52
3300 INPUT#8,MH,HG$:CLOSE8:CLOSE15:RETURN :rem 105
3310 OPEN4,4,1:LB$=LEFT$(S$,58-LEN(N$)):PRINT#4,LA
$:N$:LB$;"25":LF$ :rem 254
3320 PRINT#4,LA$;"PROPERTY";LF$;LF$ :rem 111
3330 LB$=LEFT$(S$,31):PRINT#4,LB$;"VALUE ALL PROPE
RTY";LF$ :rem 166
3340 PRINT#4,LB$;" [13 T]";LF$;LF$:RA$=LEFT$(S$,49-
LEN(RE$)) :rem 42

```

CHAPTER FOURTEEN

```
3350 PRINT#4,LA$;Q1$;RA$;RE$;LF$;RA$=LEFT$(S$,45-L
      EN(HG$)) :rem 48
3360 PRINT#4,LA$;Q2$;RA$;HG$;LF$;RA$=LEFT$(S$,50-L
      EN(AP$)) :rem 40
3370 PRINT#4,LA$;Q3$;RA$;AP$;LF$;RA$=LEFT$(S$,49-L
      EN(AU$)) :rem 57
3380 PRINT#4,LA$;Q4$;RA$;AU$;LF$;RA$=LEFT$(S$,46-L
      EN(PI$)) :rem 64
3390 PRINT#4,LA$;Q5$;RA$;PI$;LF$;LB$=LEFT$(S$,57):
      PRINT#4,LB$;"[10 T]";LF$ :rem 242
3400 LB$=LEFT$(S$,30):PRINT#4,LB$;"TOTAL PROPERTY
      {9 SPACES}$"; :rem 63
3410 RA$=LEFT$(S$,16-LEN(PQ$)):PRINT#4,RA$;PQ$;LF$
      :rem 122
3420 LB$=LEFT$(S$,57):PRINT#4,LB$;"[10 T]";CR$:PRI
      NT#4,LB$;"DDDDDDDDDD" :rem 53
3430 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
      OTO280 :rem 80
3440 POKEBO,14:POKEBA,6:POKE646,14 :rem 4
3450 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
      DISK":PRINT :rem 6
3460 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
      ROGRAM DISK":PRINT:PRINT"{4 DOWN} :rem 105
3470 PRINTTAB(9)"PRESS 'C' TO CONTINUE :rem 4
3480 GETA$:IFA$="THEN3480 :rem 193
3490 IFA$<>"C"THEN3480 :rem 195
3500 POKE631,83:POKE632,89:POKE633,83 :rem 101
3510 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
      OKE638,48:POKE639,13 :rem 71
3520 POKE198,9:NEW :rem 36
```

BALANCE SHEET

Remember to use the name above for the program you place on the PAM master disk.

```
20 N=100:K=13:PN=10:YB=0:BO=53280:BA=53281 :rem 99
30 MAX=0:TA=0:TL=0:TR=0:PL=0:PR=0:LJ=0 :rem 79
40 LF$=CHR$(10):CR$=CHR$(13):SP$=CHR$(32):NC=80:PC
   =0 :rem 143
50 S$="":FORSP=1TONC:S$=S$+SP$:NEXT:LA$=LEFT$(S$,1
   0):LB$="":RA$="" :rem 62
60 YR$="":N$="":NN$="-":N1$="":N2$="":N3$="":N4$=""
   " :rem 9
70 BA$="0.00":PT$="0.00":UP$="0.00":DQ$="0.00":DO$
   ="0.00":DP$="0.00" :rem 99
80 HG$="0.00":AP$="0.00":AU$="0.00":PI$="0.00":RE$
   ="0.00" :rem 37
90 P$="":P1$="":P2$="":P3$="":PL$="":PR$="":DIML$(
   30),M$(12) :rem 6
```

CHAPTER
FOURTEEN

```
100 M$(1)="JANUARY":M$(2)="FEBRUARY":M$(3)="MARCH"  
    :M$(4)="APRIL" :rem 114  
110 M$(5)="MAY":M$(6)="JUNE":M$(7)="JULY":M$(8)="A  
    UGUST" :rem 92  
120 M$(9)="SEPTEMBER":M$(10)="OCTOBER" :rem 162  
130 M$(11)="NOVEMBER":M$(12)="DECEMBER":POKEBO,10:  
    POKEBA,10:POKE646,7 :rem 26  
140 PRINT"{CLR}{3 DOWN}" :rem 44  
150 PRINTTAB(13)"BALANCE SHEET":PRINT:PRINT:FORD=1  
    TO5000:NEXT :rem 148  
160 POKEBO,14:POKEBA,6:POKE646,14 :rem 208  
170 PRINT"{CLR}{6 DOWN}":PRINTTAB(10)"REMOVE PROGR  
    AM DISK":PRINT :rem 206  
180 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT DA  
    TA DISK":PRINT"{4 DOWN}" :rem 146  
190 PRINTTAB(9)"PRESS 'C' TO CONTINUE" :rem 242  
200 GETA$:IFAŞ<>"C"THEN200 :rem 199  
210 POKEBO,9:POKEBA,9:POKE646,1 :rem 111  
220 PRINT"{CLR}{3 DOWN}":PRINTTAB(13)"BALANCE SHEE  
    T":PRINT:PRINT :rem 175  
230 PRINT"LOADING PERSONAL DATA .";F$="PERSDATA"  
    OPEN8,8,8,"0":"+F$+",S,R" :rem 11  
240 INPUT#8,YR$,N$,N1$,N2$,N3$,N4$ :rem 92  
250 PRINT" .";FORJ=1TO30:INPUT#8,L$(J):NEXTJ:PRIN  
    T" .";:CLOSE8 :rem 43  
260 GOSUB1850:IFE>19THEN160 :rem 98  
270 POKEBO,8:POKEBA,8:POKE646,7 :rem 121  
280 PRINT"{CLR}{3 DOWN}":PRINTTAB(13)"BALANCE SHEE  
    T":PRINT:PRINT :rem 181  
290 PRINTTAB(12)"{DOWN}1. BALANCE SHEET":PRINTTAB(  
    12)"{DOWN}2. MAIN MENU" :rem 39  
300 PRINTTAB(10)"{3 DOWN}PRESS DESIRED NUMBER"  
    :rem 118  
310 GETA$:IFAŞ=" "THEN310 :rem 75  
320 IFAŞ<"1"ORAŞ>"2"THEN310 :rem 183  
330 AA=VAL(A$):ONAAGOTO340,1880 :rem 20  
340 SYS828:POKEBO,2:POKEBA,2:POKE646,1 :rem 64  
350 PRINT"{CLR}{2 DOWN}":PRINTTAB(13)"BALANCE SHEE  
    T":PRINT:PRINT :rem 162  
360 PRINT"THIS REPORT WILL NOT BE ACCURATE UNLESS"  
    :rem 80  
370 PRINT"THE FOLLOWING ARE UP TO DATE":PRINT  
    :rem 60  
380 PRINTTAB(5)"ROUTINE{12 SPACES}OPTION":PRINT  
    :rem 143  
390 PRINTTAB(3)"ACCOUNT BALANCES{3 SPACES}CURRENT  
    {SPACE}BALANCES" :rem 106  
400 PRINTTAB(3)"UNPAID BILLS{7 SPACES}UNPAID BILLS  
    ":PRINT :rem 245
```


CHAPTER
FOURTEEN

```
410 PRINT"ARE THESE FILES UP TO DATE? (Y/N)":PRINT
:rem 189
420 PRINT"PRESSING 'N' WILL RETURN YOU TO THE MAIN
MENU; PRESS 'Y' TO CONTINUE."
:rem 6
430 GETA$:IFA$=" "THEN430
:rem 81
440 IFA$="N"THEN1880
:rem 91
450 IFA$<>"Y"THEN430
:rem 106
460 PRINT"{CLR}{2 DOWN}":IFYB=1THEN900
:rem 186
470 POKEBO,15:POKEBA,15:POKE646,11:PRINTTAB(13)"BA
LANCE SHEET":PRINT:PRINT
:rem 134
480 PRINT:INPUT"TODAY'S DATE";DA$:PRINT:E1$="LOADI
NG CURRENT ASSETS"
:rem 68
490 FORB=1TOLEN(E1$):PRINTMID$(E1$,B,1);:FORZ=1TO3
5:NEXTZ,B:PRINT:F$="CURBAL"
:rem 49
500 OPEN15,8,15
:rem 35
510 OPENS,8,8,"0:"+F$+",S,R":INPUT#15,E,E$:IFE>19T
HENCLOSE8:CLOSE15:GOTO540
:rem 177
520 INPUT#8,BA$:FORJ=1TO9:INPUT#8,BA$(J),BB$(J):NE
XTJ:CLOSE8:CLOSE15:GOSUB1850
:rem 85
530 IFE>19THEN270
:rem 220
540 E1$="LOADING FIXED ASSETS"
:rem 245
550 FORB=1TOLEN(E1$):PRINTMID$(E1$,B,1);:FORZ=1TO3
5:NEXTZ,B
:rem 137
560 PRINT:F$="REAL ESTATE"
:rem 55
570 OPEN15,8,15:OPENS,8,8,"0:"+F$+",S,R":INPUT#15,
E,E$
:rem 202
580 IFE>19THENCLOSE8:CLOSE15:GOTO600
:rem 21
590 INPUT#8,MRE,RE$:CLOSE8:CLOSE15:GOSUB1850:IFE>1
9THEN270
:rem 132
600 F$="HSEHLD GOODS":OPEN15,8,15:OPENS,8,8,"0:"+F
$+",S,R":INPUT#15,E,E$
:rem 29
610 IFE>19THENCLOSE8:CLOSE15:GOTO630
:rem 18
620 INPUT#8,MHG,HG$:CLOSE8:CLOSE15:GOSUB1850:IFE>1
9THEN270
:rem 110
630 F$="APPLIANCES":OPEN15,8,15:OPENS,8,8,"0:"+F$+
",S,R":INPUT#15,E,E$
:rem 204
640 IFE>19THENCLOSE8:CLOSE15:GOTO660
:rem 24
650 INPUT#8,MLN,AP$:CLOSE8:CLOSE15:GOSUB1850:IFE>1
9THEN270
:rem 126
660 F$="AUTOMOBILES":OPEN15,8,15:OPENS,8,8,"0:"+F$
+",S,R":INPUT#15,E,E$
:rem 51
670 IFE>19THENCLOSE8:CLOSE15:GOTO690
:rem 30
680 INPUT#8,MAU,AU$:CLOSE8:CLOSE15:GOSUB1850:IFE>1
9THEN270
:rem 130
690 F$="PERSONAL ITEMS":OPEN15,8,15:OPENS,8,8,"0:"
+F$+",S,R":INPUT#15,E,E$
:rem 216
700 IFE>19THENCLOSE8:CLOSE15:GOTO720
:rem 18
710 INPUT#8,MIP,PI$:CLOSE8:CLOSE15:GOSUB1850:IFE>1
9THEN270
:rem 130
```

CHAPTER
FOURTEEN

```

720 P1$=DQ$:P2$=HG$:GOSUB1330:DO$=P3$:P1$=DO$:P2$=
  AP$:GOSUB1330:DO$=P3$ :rem 85
730 P1$=DO$:P2$=AU$:GOSUB1330:DO$=P3$:P1$=DO$:P2$=
  PI$:GOSUB1330:DO$=P3$ :rem 99
740 TA=0:TL=0:TR=0:P$="0.00":GOSUB1380:TL=PL-1:TR=
  PR+1:P$=DO$:GOSUB1380 :rem 248
750 TL=TL+PL:TR=TR+PR:TA=TL+TR:TA=TA/2:TA=INT(100*
  TA+.5)/100 :rem 213
760 IFTA=0 THENP3$="0.00":GOTO790 :rem 86
770 IFTA>0 THENP3$=STR$(TA+.001) :rem 48
780 P3$=MID$(P3$,2,LEN(P3$)-2) :rem 57
790 DP$=NN$+P3$:P1$=RE$:P2$=DO$:GOSUB1330:FA$=P3$:
  P1$=FA$:P2$=DP$:GOSUB1330 :rem 57
800 FA$=P3$:P1$=BA$:P2$=FA$:GOSUB1330:BC$=P3$:E1$=
  "LOADING LIABILITIES" :rem 120
810 FORB=1 TOLEN(E1$):PRINTMID$(E1$,B,1);FORZ=1 TO3
  5:NEXTZ,B :rem 136
820 PRINT:F$="UNPAID BILLS" :rem 131
830 OPEN15,8,15:OPEN8,8,8,"0:"+F$+",S,R":INPUT#15,
  E,E$ :rem 201
840 IFE>19 THENCLOSE8:CLOSE15:GOTO860 :rem 28
850 INPUT#8,UP$,UPB,DU$:CLOSE8:CLOSE15:GOSUB1850:I
  FE>19 THEN270 :rem 125
860 E1$="COMPUTING NET WORTH" :rem 234
870 FORB=1 TOLEN(E1$):PRINTMID$(E1$,B,1);FORZ=1 TO3
  5:NEXTZ,B :rem 142
880 PRINT:P1$=BC$:P2$=NN$+UP$ :rem 195
890 GOSUB1330:NW$=P3$:YB=1:GOTO900 :rem 30
900 POKEBO,9:POKEBA,9:POKE646,1:K=13:LL=0:PRINT"
  {CLR}":PRINTN$TAB(36)PN :rem 224
910 PRINT"{UP}AS OF ";DA$ :rem 9
920 PRINT:PRINTTAB(13)"BALANCE SHEET":PRINTTAB(13)
  "[13 T]" :rem 252
930 PRINT"{DOWN}CURRENT ASSETS:":PRINT:LL=LL+3:FOR
  J=1 TO9:IFBB$(J)="" THEN960 :rem 138
940 PRINTTAB(2)BB$(J);:PRINTTAB(39-LEN(BA$(J)))BA$
  (J):LL=LL+1 :rem 65
950 IFL=>K THENGOSUB1300 :rem 254
960 NEXTJ:PRINTTAB(28)"[11 T]":LL=LL+1:IFLL=>K THEN
  GOSUB1300 :rem 99
970 PRINTTAB(4)"TOTAL CURRENT ASSETS{3 SPACES}$";:
  PRINTTAB(39-LEN(BA$(J)))BA$ :rem 172
980 PRINT:LL=LL+2:IFLL=>K THENGOSUB1300 :rem 204
990 PRINT"{DOWN}FIXED ASSETS:":LL=LL+2:IFLL=>K THEN
  GOSUB1300 :rem 159
1000 PRINTTAB(2)"{DOWN}REAL ESTATE";:PRINTTAB(39-L
  EN(RE$))RE$:LL=LL+1 :rem 83
1010 IFL=>K THENGOSUB1300 :rem 34
1020 PRINTTAB(2)"HOUSEHOLD GOODS";:PRINTTAB(39-LEN
  (HG$))HG$:LL=LL+1 :rem 113

```

CHAPTER
FOURTEEN

```

1030 IFLL=>KTHENGOSUB1300 :rem 36
1040 PRINTTAB(2)"APPLIANCES";:PRINTTAB(39-LEN(AP$)
)AP$:LL=LL+1 :rem 48
1050 IFLL=>KTHENGOSUB1300 :rem 38
1060 PRINTTAB(2)"AUTOMOBILES";:PRINTTAB(39-LEN(AU$
))AU$:LL=LL+1 :rem 160
1070 IFLL=>KTHENGOSUB1300 :rem 40
1080 PRINTTAB(2)"PERSONAL ITEMS";:PRINTTAB(39-LEN(
PI$))PI$:LL=LL+1 :rem 74
1090 IFLL=>KTHENGOSUB1300 :rem 42
1100 PRINTTAB(4)"DEPRECIATION";:PRINTTAB(39-LEN(DP
$))DP$ :rem 201
1110 PRINTTAB(28)"[11 T]" :rem 39
1120 LL=LL+2:IFLL=>KTHENGOSUB1300 :rem 40
1130 PRINTTAB(4)"TOTAL FIXED ASSETS{5 SPACES}$";:P
RINTTAB(39-LEN(FA$))FA$ :rem 38
1140 PRINTTAB(28)"[11 T]":LL=LL+2:IFLL=>KTHENGOSUB
1300 :rem 200
1150 PRINT"{DOWN}TOTAL ASSETS{15 SPACES}$";:PRINTT
AB(39-LEN(BC$))BC$ :rem 105
1160 PRINTTAB(28)"DDDDDDDDDD":LL=LL+2:IFLL=>KTHEN
GOSUB1300 :rem 53
1170 PRINT"{DOWN}LIABILITIES AND NEW WORTH:";LL=LL
+2:IFLL=>KTHENGOSUB1300 :rem 255
1180 PRINTTAB(2)"{DOWN}UNPAID BILLS{13 SPACES}$";:
PRINTTAB(39-LEN(UP$))UP$ :rem 230
1190 LL=LL+2:IFLL=>KTHENGOSUB1300 :rem 47
1200 PRINTTAB(2)"{DOWN}NET WORTH{16 SPACES}$";:PRI
NTTAB(39-LEN(NW$))NW$ :rem 35
1210 LL=LL+2:IFLL=>KTHENGOSUB1300 :rem 40
1220 PRINTTAB(28)"[11 T]":PRINT"{DOWN}TOTAL LIAB.
{SPACE}& NEW WORTH{4 SPACES}$"; :rem 18
1230 PRINTTAB(39-LEN(BC$))BC$:PRINTTAB(28)"DDDDDDDD
DDDD":PRINT:LL=LL+2 :rem 106
1240 IFLL=>KTHENGOSUB1300 :rem 39
1250 PRINT"{DOWN}HARD COPY (Y/N) ?" :rem 106
1260 GETA$:IFA$=" "THEN1260 :rem 181
1270 IFA$="N"THEN270 :rem 85
1280 IFA$<>"Y"THEN1260 :rem 206
1290 GOTO1410 :rem 203
1300 PRINT:PRINTTAB(9)"PRESS 'C' TO CONTINUE"
:rem 227
1310 GETA$:IFA$<>"C"THEN1310 :rem 45
1320 PRINT"{CLR}":LL=0:PRINTNT$TAB(36)PN:PRINT"{UP}
AS OF ";DA$:PRINT:RETURN :rem 91
1330 TA=0:TL=0:TR=0:P$=P1$:GOSUB1380:TL=PL-1:TR=PR
+1:P$=P2$:GOSUB1380 :rem 182
1340 TL=TL+PL:TR=TR+PR:TA=TL+TR:IFTA=0 THENP3$="0.0
0":RETURN :rem 19
1350 IFTA<0 THENP3$=STR$(TA-.001) :rem 91

```

CHAPTER
FOURTEEN

```

1360 IFTA>0THENP3$=STR$(TA+.001)           :rem 92
1370 P3$=LEFT$(P3$,LEN(P3$)-1):RETURN      :rem 113
1380 PL$=LEFT$(P$,LEN(P$)-3):PL=VAL(PL$):PR$=RIGHT
      $(P$,3):PR=VAL(PR$)                   :rem 42
1390 IFPL<0THENPR=PR*-1                     :rem 156
1400 RETURN                                  :rem 165
1410 PRINT"{CLR}":PRINTTAB(13)"BALANCE SHEET":PRIN
      T:PRINTTAB(13)"{DOWN}PRINT REPORT"    :rem 248
1420 OPEN4,4,1                              :rem 234
1430 LB$=LEFT$(S$,57-LEN(N$)):PRINT#4,LA$;N$;LB$;P
      N;LF$                                  :rem 148
1440 PRINT#4,LA$;"AS OF ";DA$;LF$;LF$      :rem 248
1450 LB$=LEFT$(S$,33):PRINT#4,LB$;"BALANCE SHEET";
      LF$                                     :rem 45
1460 PRINT#4,LB$;"[10 T]";LF$;LF$:PRINT#4,LA$;"CUR
      RENT ASSETS:";LF$;LF$                 :rem 216
1470 FORJ=1TO9:IFBB$(J)=" "THEN1500        :rem 201
1480 LB$=LEFT$(S$,12):PRINT#4,LB$;BB$(J);  :rem 23
1490 RA$=LEFT$(S$,58-LEN(BB$(J))-LEN(BA$(J))):PRIN
      T#4,RA$;BA$(J);LF$                   :rem 32
1500 NEXTJ:LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";L
      F$                                     :rem 146
1510 LB$=LEFT$(S$,14):PRINT#4,LB$;"TOTAL CURRENT A
      SSETS{18 SPACES}$";                   :rem 178
1520 RA$=LEFT$(S$,17-LEN(BA$)):PRINT#4,RA$;BA$;LF$
      ;LF$                                  :rem 48
1530 PRINT#4,LA$;"FIXED ASSETS:";LF$;LF$   :rem 104
1540 LB$=LEFT$(S$,12):PRINT#4,LB$;"REAL ESTATE";
      :rem 255
1550 RA$=LEFT$(S$,47-LEN(RE$)):PRINT#4,RA$;RE$;LF$
      :rem 109
1560 LB$=LEFT$(S$,12):PRINT#4,LB$;"HOUSEHOLD GOODS
      ";                                     :rem 62
1570 RA$=LEFT$(S$,43-LEN(HG$)):PRINT#4,RA$;HG$;LF$
      :rem 91
1580 LB$=LEFT$(S$,12):PRINT#4,LB$;"APPLIANCES";
      :rem 249
1590 RA$=LEFT$(S$,48-LEN(AP$)):PRINT#4,RA$;AP$;LF$
      :rem 102
1600 LB$=LEFT$(S$,12):PRINT#4,LB$;"AUTOMOBILES";
      :rem 86
1610 RA$=LEFT$(S$,47-LEN(AU$)):PRINT#4,RA$;AU$;LF$
      :rem 104
1620 LB$=LEFT$(S$,12):PRINT#4,LB$;"PERSONAL ITEMS"
      ;                                     :rem 250
1630 RA$=LEFT$(S$,44-LEN(PI$)):PRINT#4,RA$;PI$;LF$
      :rem 109
1640 LB$=LEFT$(S$,14):PRINT#4,LB$;"DEPRECIATION";
      :rem 143

```

CHAPTER
FOURTEEN

```

1650 RA$=LEFT$(S$,44-LEN(DP$)):PRINT#4,RA$;DP$;LF$
                                     :rem 101
1660 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF$
                                     :rem 214
1670 LB$=LEFT$(S$,14):PRINT#4,LB$;"TOTAL FIXED ASS
ETS{20 SPACES}$";
                                     :rem 6
1680 RA$=LEFT$(S$,17-LEN(FA$)):PRINT#4,RA$;FA$;LF$
                                     :rem 78
1690 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF$
                                     :rem 217
1700 LB$=LEFT$(S$,16):PRINT#4,LB$;"TOTAL ASSETS
{24 SPACES}$";
                                     :rem 146
1710 RA$=LEFT$(S$,17-LEN(BC$)):PRINT#4,RA$;BC$;LF$
                                     :rem 68
1720 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$
                                     :rem 214
1730 PRINT#4,LB$;"DDDDDDDDDD";LF$
                                     :rem 105
1740 PRINT#4,LF$;LF$:PRINT#4,LA$;"LIABILITIES AND
{SPACE}NET WORTH:";LF$;LF$
                                     :rem 146
1750 LB$=LEFT$(S$,12):PRINT#4,LB$;"UNPAID BILLS";
                                     :rem 79
1760 RA$=LEFT$(S$,46-LEN(UP$)):PRINT#4,RA$;UP$;LF$
;LF$
                                     :rem 124
1770 LB$=LEFT$(S$,12):PRINT#4,LB$;"NET WORTH";
                                     :rem 149
1780 RA$=LEFT$(S$,49-LEN(NW$)):PRINT#4,RA$;NW$;LF$
                                     :rem 144
1790 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";LF$
                                     :rem 218
1800 LB$=LEFT$(S$,16):PRINT#4,LB$;"TOTAL LIABILITI
ES AND NET WORTH{5 SPACES}$";
                                     :rem 57
1810 RA$=LEFT$(S$,17-LEN(BC$)):PRINT#4,RA$;BC$;LF$
                                     :rem 69
1820 LB$=LEFT$(S$,55):PRINT#4,LB$;"[11 T]";CR$
                                     :rem 215
1830 PRINT#4,LB$;"DDDDDDDDDD";LF$
                                     :rem 106
1840 FORSP=1TO12:PRINT#4,LF$:NEXT:PRINT#4:CLOSE4:G
OTO270
                                     :rem 82
1850 E=0:OPEN15,8,15:INPUT#15,E,E$
                                     :rem 161
1860 IFE>19THENPRINT:PRINTE$:SYS828:FORD=1TO5000:N
EXT
                                     :rem 198
1870 CLOSE15:RETURN
                                     :rem 198
1880 POKEBO,14:POKEBA,6:POKE646,14
                                     :rem 10
1890 PRINT"{CLR}{6 DOWN}":PRINTTAB(12)"REMOVE DATA
DISK":PRINT
                                     :rem 12
1900 PRINTTAB(18)"AND":PRINT:PRINTTAB(10)"INSERT P
ROGRAM DISK":PRINT"{4 DOWN}"
                                     :rem 193
1910 PRINTTAB(9)"PRESS 'C' TO CONTINUE"
                                     :rem 35
1920 GETA$:IFA$=" THEN1920
                                     :rem 187
1930 IFA$<>"C" THEN1920
                                     :rem 189

```

CHAPTER
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1940 POKE631,83:POKE632,89:POKE633,83 :rem 107
1950 POKE634,53:POKE635,49:POKE636,48:POKE637,48:P
OKE638,48:POKE639,13 :rem 77
1960 POKE198,9:NEW :rem 42



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