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DATE

A COMPUTERIZED PARTNERSHIP ACCOUNTING MODEL
FOR USE ON THE IBM 360 WITH APPLICATIONS
TO TEACHING BEGINNING ACCOUNTING

By

Janet Eck

A Thesis

Submitted in Partial Fulfillment of the
Requirements for the Degree of
Master of Business Administration

The University of New Mexico

1966

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This thesis, directed and approved by the candidate's committee, has been accepted by the Graduate Committee of the University of New Mexico in partial fulfillment of the requirements for the degree of

MASTER
OF
Business Administration

Brian E. O'Neil
Dean

Date September 22, 1966

A COMPUTERIZED PARTNERSHIP ACCOUNTING MODEL
FOR USE ON THE IBM 360 WITH APPLICATIONS
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By

Janet Eck

Thesis committee

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CHAPTER I

THE THESIS DESIGN

Introduction

Students of business and businessmen no longer require assurance that the digital computer will play a vital role in commercial activity. Simple observation will substantiate the acceptance of electronic data processing by private enterprise. At the university, the necessity of providing an elementary introduction to data processing for business students has become clear.

Unfortunately, education in data processing does not always cross disciplinary boundaries. All too often, a student acquires a knowledge of computers in one course and continues to make tedious manual computations in another. Efforts to integrate data processing and accounting education have, to date, been minimal. It is the joint recognition of the role that computers are playing in an accountant's activities beyond the university and of the desirability of providing an application of data processing in the accounting curriculum that has prompted this thesis.

Objectives

The first objective of this thesis is to prepare a comprehensive accounting problem in a format that will permit students of accounting to use a digital computer to prepare standard accounting statements. A programmed problem of this nature could provide a significant vehicle for the integration of accounting and data processing skills. Also,

the program itself will provide a valuable example of the logical processes and techniques that are required to automate an accounting system.

Secondly, the thesis will attempt to evaluate the utility of the programmed problem and make recommendations for continued efforts to integrate accounting and data processing within the university. It is hoped that this effort will provide the groundwork for a new approach to the study of accounting.

Scope of the Thesis

The partnership accounting system developed will represent a hypothetical firm. A sufficient number of accounts will be included in the system to permit the demonstration of many of the accounting transactions to which the student has traditionally been introduced in his first semester of college accounting at The University of New Mexico. While it is desirable that the accounting system that is developed in this thesis be believable to the student--that is, the names of accounts and types of transactions that are used should follow accepted accounting practice--it is by no means necessary that the system represent any ongoing firm extant in the real world.

A computer program will be prepared in the Fortran IV, subset E language for the IBM 360, 16K disc operating system. The program will process data relevant to the system and will output the following accounting statements: (1) a general ledger, (2) an income statement, (3) a balance sheet, (4) a statement of accounts receivable, and (5) individual accounts receivable statements. No attempt to perform a ratio analysis upon the resultant data will be made.

The thesis will be limited to a demonstration of a rapid, easy, and inexpensive technique that could be used by students for the preparation of transaction data.

Previous Work Relevant to the Topic

Kemeny, Schleifer, Snell, and Thompson¹ illustrate the use of an accounting matrix similar to the one discussed in the thesis. They also show several simplified flow charts for use in preparing financial statements. All of their remarks refer to a computerized accounting system.

Corcoran, in The Journal of Accountancy,² has advocated use of a similar accounting matrix for manual bookkeeping. He feels that through the introduction of matrix bookkeeping to accounting students, the teaching of the mathematics of matrices, linear programming, and operations research will be less difficult.

Mattessich, in Accounting and Analytical Methods,³ outlines a history of the use of matrices for accounting purposes.

¹John G. Kemeny, Arthur Schleifer, Jr., J. Laurie Snell, and Gerald L. Thompson, Finite Mathematics with Business Applications, (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1962), pp. 346-362.

²A. Wayne Corcoran, "Matrix Bookkeeping," The Journal of Accountancy, Vol. 117, No. 3 (March, 1964), pp. 60-66.

³Richard Mattessich, Accounting and Analytical Methods, (Homewood, Illinois: Richard D. Irwin, Inc., 1964), pp. 88-96.

The 1964 American Accounting Association Committee on Courses and Curricula recommends the following regarding incorporating computer technology in the accounting curriculum.⁴

1. At the undergraduate level, accounting students should be exposed to electronic data processing in three stages:

(a) Concurrent with or prior to the introductory accounting course, students should receive instruction in a basic programming language, and should be able to write simple computer problems in the language.

(b) Accounting instruction in a variety of subject-matter courses should incorporate some computer-oriented problems, where subject matter is conducive to formulation; but such instruction should convey the principles basic to an understanding of the profounder, nontechnical issues to which computer solutions are being applied.

(c) The traditional accounting systems course should continue to include a coverage of electronic data processing as one of the aids to accounting.

In part (b) the Committee warns that the emphasis should be upon the accounting principles applicable to the solution of a problem rather than upon the mechanics of programming the solution.

Nielsen lists several advantages to be gained from integrating computer programming in the elementary accounting course.⁵

1. Frequently students get a fallacious impression from problem assignments that accounting is antiquated in its techniques. Employing computer programming to manipulate data displays the dynamic currency of accounting methodology.

2. Applying the computer to the solving of accounting problems vividly portrays that the medium of information manipulation and storage does not affect accounting concepts.

⁴1964 American Accounting Association Committee on Courses and Curricula, "Electronic Data Processing in Accounting Education," The Accounting Review, Vol. XL, No. 2 (April, 1965), p. 422.

⁵Gordon L. Nielsen, "The Computer in Accounting Education," The Accounting Review, Vol. XL, No. 4 (October, 1965), pp. 872-873.

3. The student is taught concepts without his associating them with particular data. A complete problem, such as accumulating sales and accounts receivable data, is walked through by way of flow-charting and programming steps, thus helping the student to focus his attention on the use of the data rather than the data itself.

4. The instruction creates a new spark of interest. Programming an electronic computer is likely to be more absorbing than balancing a special journal.

At this time, one publisher has prepared a computerized practice set.⁶ In this practice set students keypunch instructions for processing certain types of accounting transactions. With the aid of a tape-resident master program and data cards supplied by the publisher, financial statements can be obtained from the computer. The master program prepares the computer for acceptance of the students' program.

Unfortunately, the computer program is not documented with flow charts that would enable the student to trace the logical operations that attend the automation of an accounting system. Also, the practice set is programmed in the SOPAT language (similar to the Symbolic Programming System language) which is not a common programming language. This feature prevents all but those few who are trained in the SOPAT language from reading and understanding the sample program. Only the most simple operations are demonstrated for the student to enable him to write the programs required in the practice set.

It would be more beneficial to the student if he learned a common programming language such as Fortran or Cobal which could be

⁶Daniel Teichroew, Jay M. Smith, and Earl Snell, Computerized Practice Set: SMAC Corporation, (New York: McGraw-Hill Book Company, 1964).

used in other areas. Learning an uncommon programming language such as SOPAT' limits the use of programming techniques to the aforementioned practice set exclusively.

The computerized practice set requires an IBM 1401 computer with 8,000 positions of storage, a card reader, a printer, and two tape drives as hardware.

The practice set is intended to focus the student's attention on how business events affect the accounts of the firm and to introduce him to the data processing capabilities of computers. The opportunity to do programming is the motivational factor.

Definition of Terms Used

An accounting period is the time required for the completion of one accounting cycle. An accounting cycle incorporates the elapsed time between the preparation of accounting statements. Obviously, the more frequently accounting statements are prepared, the shorter is the accounting period.

A matrix is a combination of vectors. In this thesis we will be concerned with a two-dimensional matrix where one dimension represents account debits and the second dimension represents account credits. The intersection of a row and a column is called a cell.

A matrix update corresponds to the accounting procedure of journalizing and posting of entries in an accounting system.

A model is a representation of something in a form whose attributes are not the same as the attributes of the thing modeled. An accounting

system is a model of the transactions of a firm. A model portrays those characteristics of an entity that the model builder deems significant.

To this end, an accounting model need not represent all of the activities and relationships of a firm, but, most frequently, is limited to the transactions that have a distinct bearing upon the information required by the desired accounting statements.

A program is defined as a set of instructions for a computer which will cause it to complete a sequence of operations. Within certain limitations imposed by the size and nature of a computer, programs can be prepared in a host of programming languages. The program used in this thesis will be written in the Fortran programming language.

A vector is a one-dimensional, ordered array of numbers. A single row (or column) of a matrix is a vector.

Systems in general. The term "system" is one of the most powerful and most frequently misused terms in the vocabulary of the contemporary businessman. Because this thesis is fundamentally concerned with systems in general and a specific accounting system in particular, it is deemed prudent to, first, develop a careful general definition of a system and, second, relate the concept of an accounting system to the definition of a general system. Finally, the specific system (a partnership accounting system) will be described.

A system may be described by reference to three attributes. The first attribute is the set of all operands in the system. Operands have the common property of being elements in the system that are acted upon by some factor or factors in the system. The factors--or more

properly, operators--that act upon operands constitute the second attribute of a system. The third attribute is the set of transforms. Transforms have the common property of being the result of the transition of an operand in response to the affect of an operator. Every system contains operands, operators, and transforms. Feedback systems also contain a feedback set.⁷

The state or condition of the total system can be described, at a given point in time, by describing the condition of each operand in the system. When any operand in the system is operated upon such that one or more operands undergo a transition to a different condition (i.e., become transforms), the system is said to have experienced a change of state.

Accounting systems in particular. Accounting systems, which comprise a subset in the universe of all systems, can be defined in terms of sets of operands, operators, and transforms. The elements in an accounting system's set of operands have the common property of being transaction data that are operated upon by the system's operators. The operators in an accounting system include debits, credits, balances, adjustments, and closing procedures. The transforms are the financial statements that result when operands (transaction data) are operated upon by the operators.

Before examining the role of whatever feedback elements might be present in an accounting system, it is illuminating to more closely

⁷Feedback systems are discussed in detail by Stanford L. Optner, Systems Analysis for Business and Industrial Problem Solving, (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1965).

inspect the sets of operands, operators, and transforms. The set of operands in the accounting system of a firm that is engaged in a multitude of diverse transactions might contain thousands of elements. Regardless of the number of elements in the set of operands, the set of operators typically contains only a few operators. Further, the number of ways in which operators are allowed to operate upon transaction data is fully specified and limited by the rules that are embodied in accounting principles. To that end, only a limited number of operations are permissible in an accounting system. An accounting system is thus constrained by accounting rules. The rigid constraints of an accounting system allow the accountant to predict the transforms or output of the system with perfect certainty. An accounting system, then, is wholly deterministic.

Simple observation will support the assertion that most accounting systems do not have a feedback set. That is, there is no element that compares the system's output with some criterion and attempts to change the operands set in response to a difference between the transform set and the criterion. Accounting systems that are designed with the intent of "accounting objectivity" or "historical reporting" lack this feedback characteristic and are not affected by the system's environment. Such accounting systems are closed systems.

On the other hand, accountants are frequently called upon to design accounting systems for managerial information (as opposed to stockholders' reports or historical reports). In such cases, the accountant can compare the information content of the system's output

against management's criteria and can make recommendations for changes in the system when the transform set fails to satisfy the established criteria. The concept of the accountant as a feedback element in an accounting system suggests opportunities for future study.

CHAPTER II

THE ACCOUNTING MODEL

The Partnership Accounting System

This chapter is concerned with the development of a partnership accounting system. With reference to the previous definitions for systems in general and accounting systems in particular, the partnership accounting system will be defined by specifying the operands, the operators, and the transforms that will be included in the system.

The operands or transaction data in the system are limited to those transactions which would typically occur in a small business owned by two partners. To accommodate unique transactions, a special instruction has been built into the system. This feature will be discussed in detail in a later chapter.

The model is that of a retail store. In addition to office personnel, the business employs salesmen and deliverymen. The building is rented, but the store fixtures and office equipment are owned by the partnership. The partners may draw cash or merchandise for their own use.

The transaction data used in this thesis were selected for demonstration purposes. The transactions do not include all of the possible activities of an ongoing firm, although the system is capable of handling any occurrence by expanding the account matrix and providing necessary links.

Each type of transaction (operator) which is demonstrated in this model is given a unique code number. The transactions and corresponding code numbers are listed in Table I. It may be noted that the first two numerals indicate the broad classification of the transaction while the last two numerals indicate the specific transaction within each broad type. Code number 2111 indicates to the computer that all data have been processed, and the processing ceases.

The format of a data card is illustrated in Figure 1. Columns one through four contain the transaction code number. The date is in columns five through ten. The amount of money involved in the transaction is punched in columns eleven through eighteen with the decimal point in column sixteen. If the transaction involves a subsidiary account, its number is punched in columns nineteen and twenty. Columns twenty-one through twenty-four are reserved for the interest rate on notes, with the decimal in column twenty-one. The number of days expired on the note are punched in columns twenty-five through twenty-eight. A decimal must be placed in column twenty-eight to facilitate computations.

The date must be punched on the data cards requesting financial statements or the housekeeping routine so that the date will appear on the financial statements.

The broad outline of the model is illustrated in Figure 2. After the program is compiled, punched cards containing the data are read by the card reader. The data is operated upon by the central processor

TABLE I
TRANSACTION CODES

CODE	TYPE OF TRANSACTION
CASH RECEIPTS	
1111	Received cash on account
1112	Cash sale
1113	Received cash for note receivable
1114	Interest earned
1115	Received cash for purchase return
1116	Sold office fixtures
1117	Sold store fixtures
1118	A invested cash
1119	B invested cash
CASH PAYMENTS	
1211	Paid cash on account
1212	Purchased merchandise for cash
1213	Paid for transportation in
1214	Purchased office supplies for cash
1215	Purchased shipping supplies for cash
1216	Paid miscellaneous selling expense
1217	Paid office expense
1218	Paid shipping and delivery expense
1219	Paid miscellaneous general expense
1221	Paid store rent
1222	Paid cash for sales return
1223	Paid delivery truck rent
1224	Paid sales salaries
1225	Paid delivery salaries
1226	Paid office salaries

TABLE I--Continued

CODE	TYPE OF TRANSACTION
CASH PAYMENTS	
1227	Paid for advertising
1228	Paid for insurance
1229	A withdrew cash
1231	B withdrew cash
1232	Paid quarterly FICA tax liability
1233	Paid withholding liability
1234	Purchased office fixtures for cash
1235	Purchased store fixtures for cash
SALES ON ACCOUNT	
1311	Sold merchandise on account
ACCOUNTS PAYABLE	
1411	Purchased merchandise on account
1412	Transportation in on account
1413	Purchase discount on account
1414	Purchase return on account
1415	Purchased shipping supplies on account
1416	Purchased office supplies on account
1417	Shipping expense on account
1418	Miscellaneous selling expense on account
1419	Office expense on account
1421	Miscellaneous general expense on account
1422	Purchased office fixtures on account
1423	Purchased store fixtures on account
1424	Prepaid advertising on account
1425	Prepaid insurance on account

TABLE I--Continued

CODE	TYPE OF TRANSACTION
ADJUSTMENTS	
1511	Accrue interest earned
1512	Depreciation, office fixtures
1513	Depreciation, store fixtures
1514	Adjust prepaid insurance
1515	Provision for bad debts
1516	Adjust advertising expense
1517	Adjust office supplies
1518	Adjust shipping supplies
1519	Accrue salaries, delivery
1521	Accrue salaries, sales
1522	Accrue salaries, office
1523	Record new inventory
MISCELLANEOUS TRANSACTIONS	
1611	Merchandise removed from inventory for store use
1612	FICA accrual for delivery salaries
1613	FICA accrual for sales salaries
1614	FICA accrual for office salaries
1615	Record payroll tax expense
1616	Withholding liability, delivery salaries
1617	Withholding liability, sales salaries
1618	Withholding liability, office salaries
1619	Sales returns and allowances
1621	Quantity discount given
1622	Received a note in payment of an account receivable
1623	Uncollectible account receivable written off
1624	Any other transaction where I and J are punched on the following card
CLOSING PROCEDURES	
1711	Distribute profit or loss; close drawing accounts

TABLE I--Continued

CODE	TYPE OF TRANSACTION
FINANCIAL STATEMENTS	
1911	General ledger
1912	Income statement
1913	Balance sheet
1914	Schedule of accounts receivable
1915	Individual accounts receivable
HOUSEKEEPING	
1811	Reversing entries, zero matrices, transfer balances from ending balance column to beginning balance column
END-OF-DATA CARD	
2111	Stops all processing

Order of the Board of Directors

1

2

3

and showed in an ordinary matrix, which is a listing of each
card used, the number of the card, the number of the
statement.

The general procedure is to take the matrix and
matrix. A complete matrix of the matrix is prepared in this way.
The matrix is prepared in a way which is the same as
The user can obtain the matrix and matrix in a way which is
provision, the matrix is prepared in a way which is the same as
matrix is prepared in a way which is the same as the matrix
matrix in which is the same as the matrix in which is the same as
matrix prepared in a way which is the same as the matrix in which
portion of the matrix. The matrix is prepared in a way which is
matrix and is the same as the matrix in which is the same as

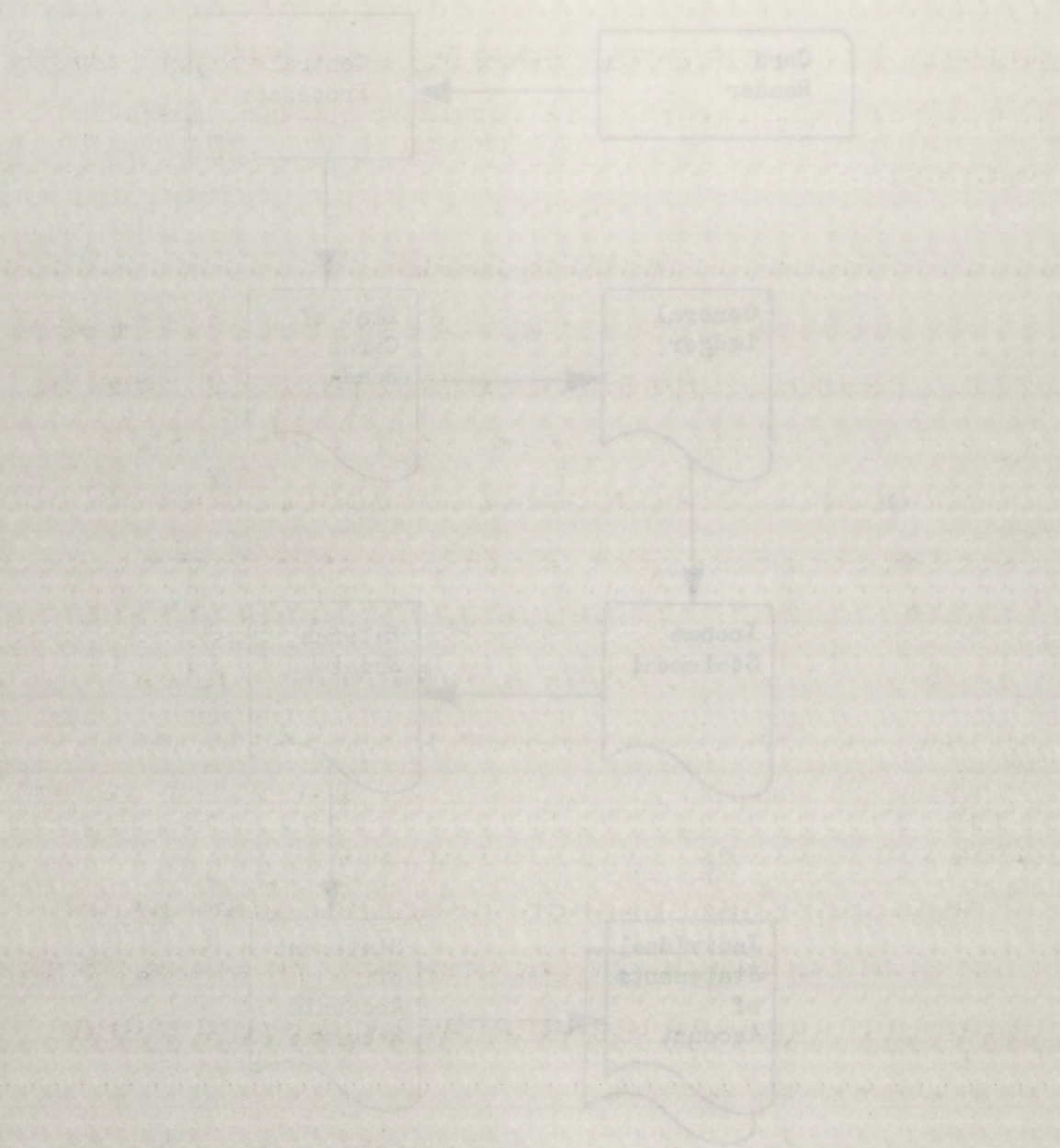
The matrix is prepared in a way which is the same as the matrix

matrix prepared in a way which is the same as the matrix in which
matrix, but prepared in a way which is the same as the matrix in
one to be prepared in a way which is the same as the matrix in
By using a matrix which is the same as the matrix in which

debit and credit matrix prepared in a way which is the same as the
balance is all the same. The matrix is prepared in a way which is
is prepared in a way which is the same as the matrix in which

Thompson.

Thompson, Robert, and Thompson, Robert



PLAN OF THE PROGRAM

The program is designed to provide a comprehensive overview of the accounting process, from the initial recording of transactions to the final preparation of financial statements.

Suppose that there are n accounts and T is the transfer matrix representing one or more transactions. In order to get the sum of the debits and credits as defined the following vectors:

$$e = \begin{pmatrix} 1 \\ 1 \\ \vdots \\ 1 \end{pmatrix} \text{ and } \underline{1} = \begin{pmatrix} 1 & 1 & \dots & 1 \end{pmatrix}$$

$\underbrace{\hspace{10em}}_{n \text{ components}}$

It is easy to see that the components of $\underline{1}$ give the sum of the debits in each account, whereas the components of e give the sum of the credits in each account. To get a total balance we total all the debits and credits separately with the total of all credits. Since the amount of $\underline{1}$ gives the total of all credits, $(\underline{1}T)$ gives the total of the debits. Also, since the components of e give the credit balances, it is evident that (eT) gives the total of all credit balances. However, by the associative law for multiplication of matrices we know that

$$(eT)T = e(TT)$$

It is also intuitively clear since the two expressions $(eT)T$ and $e(TT)$ are always two different ways of computing the total sum of all entries in T . We have then the following result.

THEOREM. In the double classification bookkeeping system, total balances agree.

A list of the accounts used in this system and their corresponding

matrix positions is shown in Table II. The last three rows and columns

are reserved for totals and balances.

Beginning balances are shown in position forty-six; debit balances

are in column forty-six, credit balances in row forty-six. These

balances are read from date cards during the first period. The

beginning balances are transferred to position forty-six of the next

of each succeeding period.

TABLE XI

MINERAL AND WATER RESOURCES

NAME OF MINERAL	MINERAL POSITION
Asbestos	1
Barite	2
Bauxite	3
Coal	4
Copper	5
Gold	6
Iron	7
Lead	8
Manganese	9
Mercury	10
Nickel	11
Platinum	12
Silver	13
Sulfur	14
Tungsten	15
Vanadium	16
Zinc	17
Uranium	18
Phosphorus	19
Potash	20
Salt	21
Water	22
Geothermal	23
Hydroelectric	24
Nuclear	25
Wind	26
Solar	27
Marine	28
Oil	29
Natural Gas	30
Coalbed Methane	31
Geothermal	32
Hydroelectric	33
Nuclear	34
Wind	35
Solar	36
Marine	37
Oil	38
Natural Gas	39
Coalbed Methane	40

TABLE II - Continued

NAME OF ACCOUNT	AMOUNT
Investment expenses - stock	25
Delivery expenses	25
Sales salaries	21
Advertising expenses	20
Shipping and delivery expenses	15
Miscellaneous selling expenses	10
Investment expenses - office	7
Gas and light expenses	5
Office salaries	5
Travel expenses	5
Insurance expenses	4
Office expenses	3
Miscellaneous general expenses	3
Interest charges	2
Payroll and expenses	2
Depreciation	2
Gas and oil for trucks	2
Low salaries	2

Total debits or credits are stored in position forty-seven. These totals are obtained by adding each row or column vector (positions one through forty-six). After a balancing procedure, ending debit or credit balances are stored in position forty-eight.

When using a matrix of this type, only balances are kept. The balance is updated with each new entry. Individual entries in an account may be found by referring to the print out of the data cards. If many transactions are involved, the original data cards could be sorted on the card sorter to segregate those with the desired transaction code.

The process of recording individual transactions for later reference could also be accomplished by writing the data cards to magnetic tape. A tape search could then be initiated to print selected transaction data.

The matrix just described may be considered to be partitioned for the purpose of preparing financial statements. The matrix is constructed with the accounts arranged as in Figure 3b. The arrangement partitions the matrix into four submatrices.



LIST OF VIGNETTES

LIST OF VIGNETTES AND PLATES

PLATE	PAGE
I	10
II	11
III	12
IV	13
V	14
VI	15
VII	16
VIII	17
IX	18
X	19

THE STATE

Initial Position

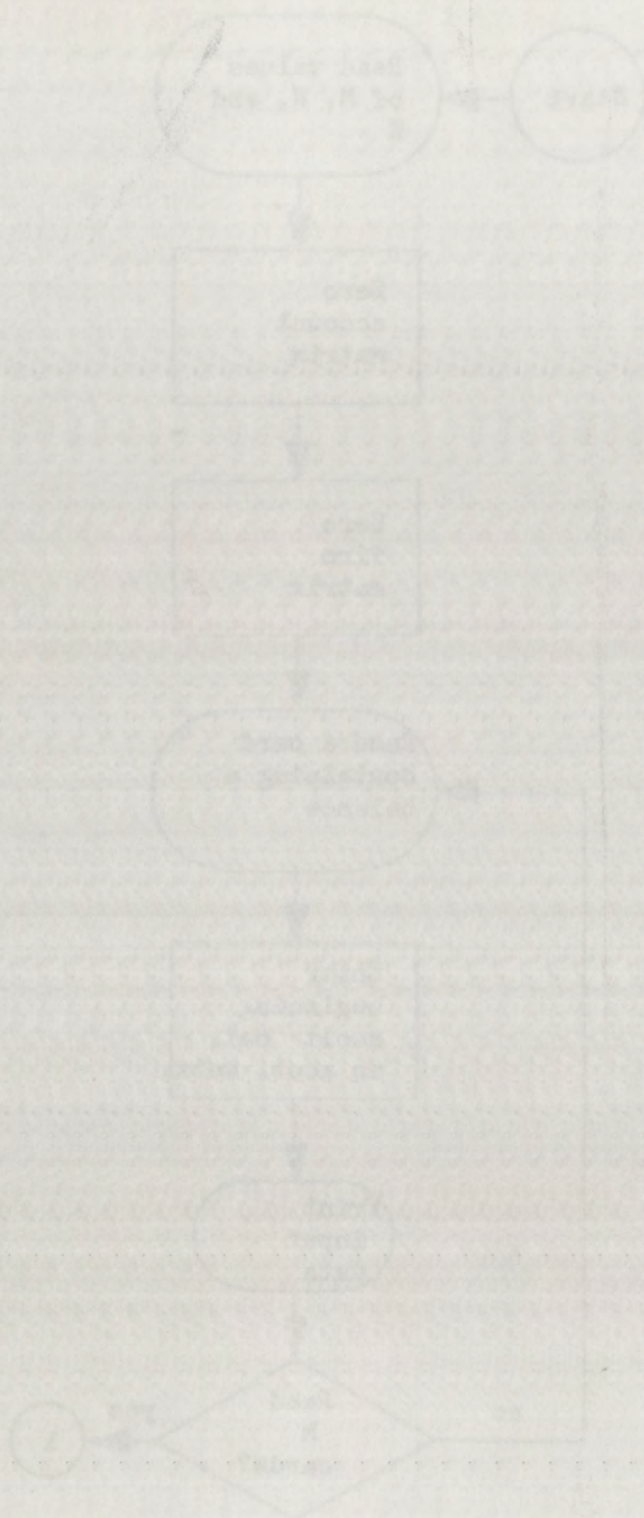
The initial position is that the...
position of the...
the program...
in all respects...

The first step is to...
and...
of credit...
respective...
later...

Next, it is...
equal to...
the...
The program...

Each card...
proper...
balance...
agreed...
on the...

After...
entered...
as...
number...



INITIAL FORMING
EMERGENCY LANDING

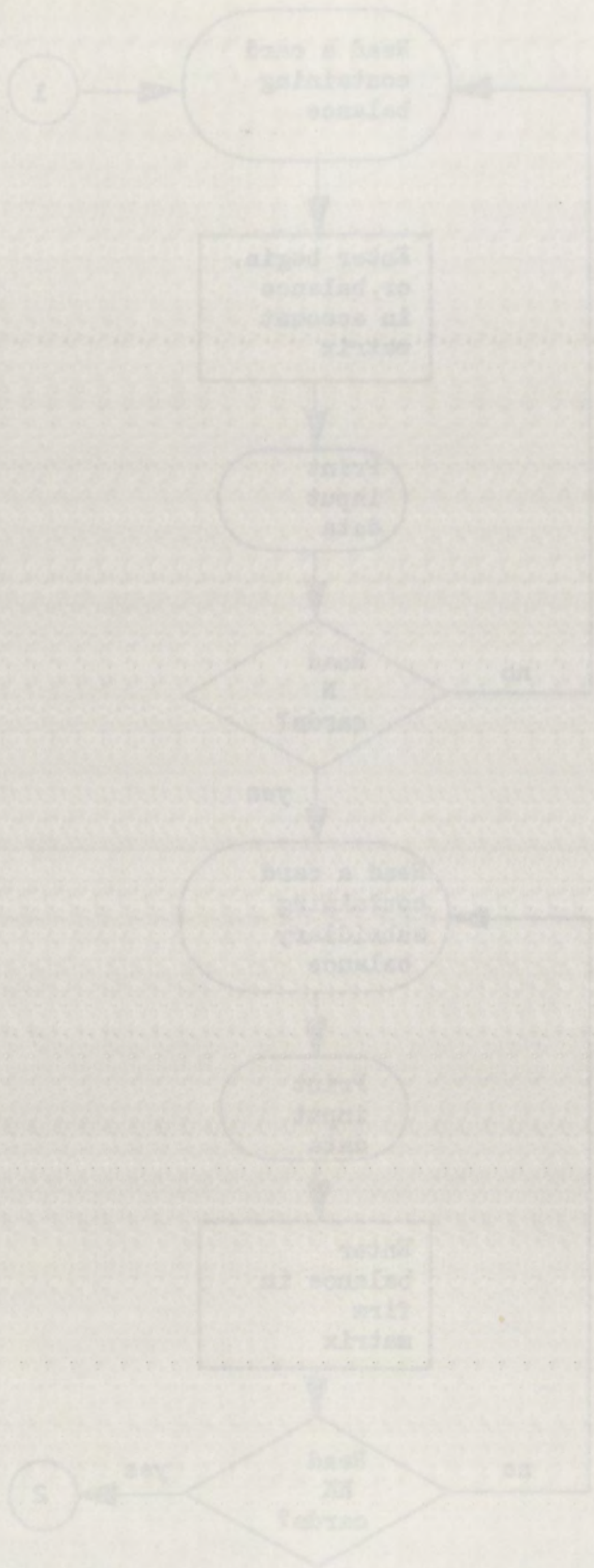


FIGURE 2 - Continued



FIGURE 2 - Continued

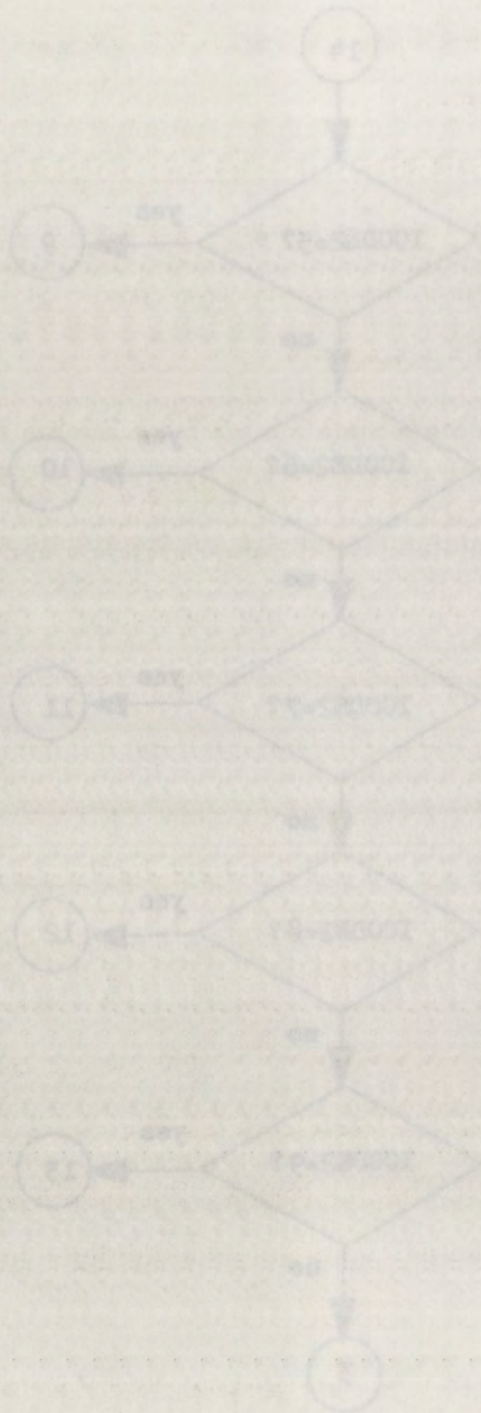


Figure 2 - Continued

time, is stated in the introduction of the report.

As before, the data are set out.

The first step of the analysis is to find

certain constant balances for each element in the series. The
certain constant balances for each element in the series. The
and the results are given. It is assumed in this report that all elements
balances are given. The first element is shown in the first table.

as discussed in the report regarding the method. The results are
and the results are given. It is assumed in this report that all elements
for every element in the series are given.

The results of the analysis are given in the tables. The first table
flexible. The results of the analysis of the first element are given
by changing the value of the constant. The results are given in the
tables. The results of the analysis of the first element are given
balances.

The final step of the analysis is to find the constant for each
element in the series. The results are given in the tables. The
is given for each element. A table is given for each element
code in this report. It is assumed in this report that all elements
an error results (to be discussed later). The results are given in the
tables.

If no results are found, the results are given in the tables.
analyses in the report. The results are given in the tables.

code. This analysis is given in the report. The results are given in the
of the. It is assumed in this report that all elements

30 PAPERASE BOON

25% COTTON FIBRE

error involved, from the limited data of the case in hand, the
program area to a 50% increase, and the following reasons.

Qualitative Analysis

If the value of the variable is increased, the program
the program is likely to be more efficient. The program is likely
in Figure 1. It is likely that the program is likely to be
be defined, and in the case of a 50% increase in the value
of the variable, the program is likely to be more efficient.
value should be increased, and the program is likely to be
efficient. The value of the variable is likely to be increased.

computed by the program. The value of the variable is likely
to be increased, and the program is likely to be more efficient.
the value of the variable is likely to be increased, and the
program is likely to be more efficient. The value of the variable
is likely to be increased, and the program is likely to be more
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transferred to the program, and the program is likely to be
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value of the variable is likely to be increased, and the program
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and the program is likely to be more efficient.

the following are:

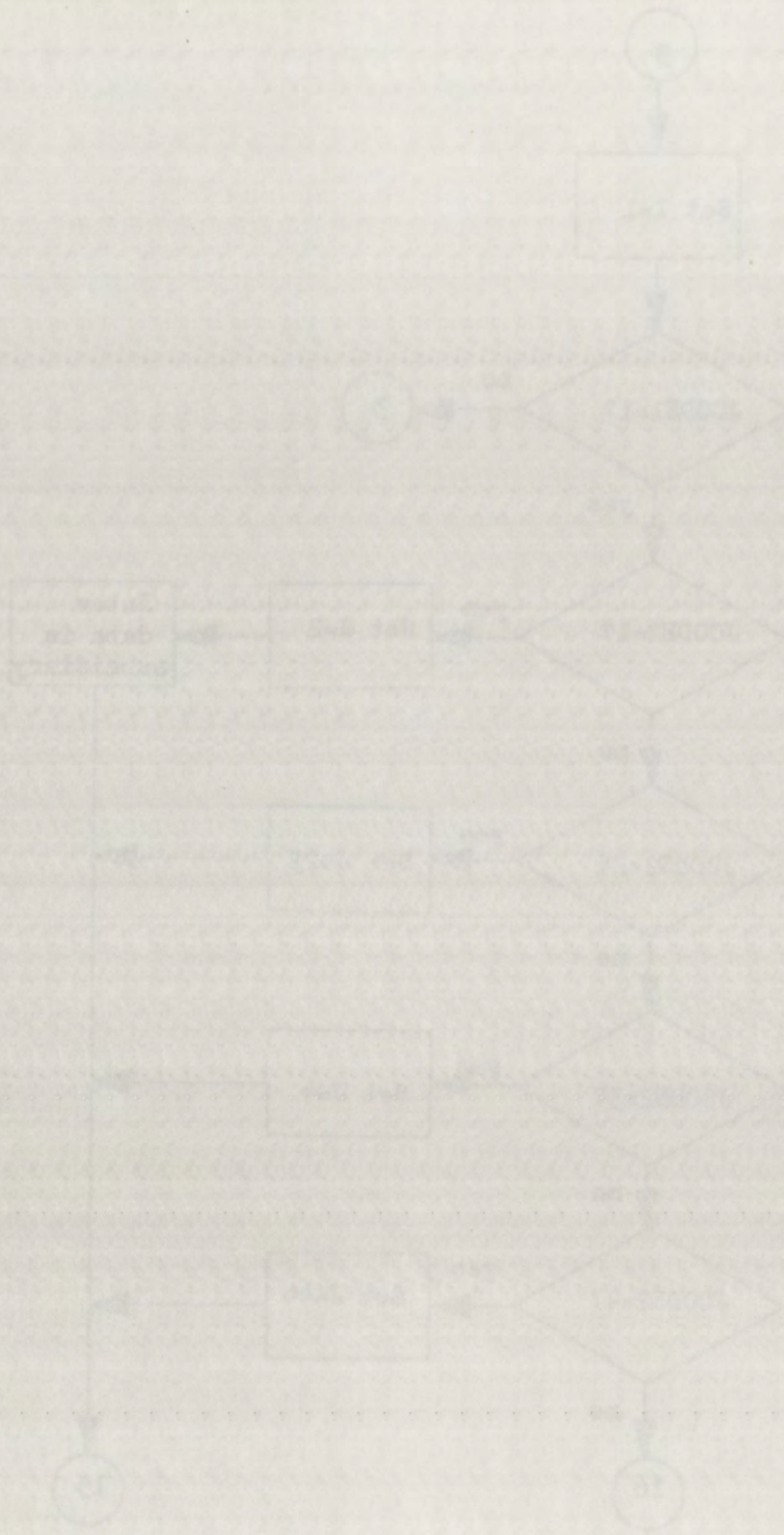


FIGURE 2
CALL GRAPH WITH

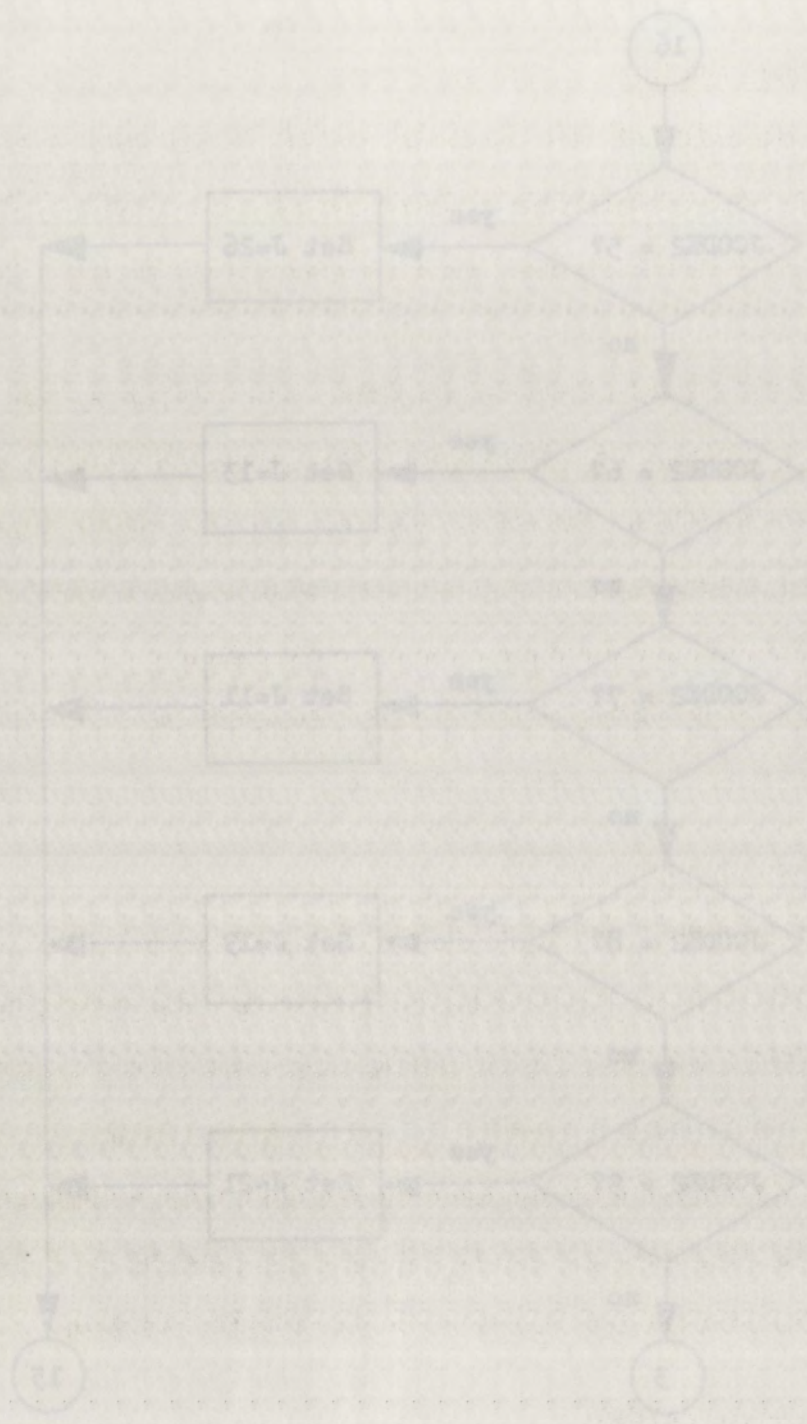


FIGURE 1-10

Good Practice Model 1

When the value of the input is 1, the output is 1. When the value of the input is 0, the output is 0. This is a simple function that can be implemented in a neural network. The value of the input is 1, and the value of the output is 1. The value of the input is 0, and the value of the output is 0.

The third layer of the network is the output layer. It consists of one neuron that produces the final output. The value of the output is 1 when the value of the input is 1, and 0 when the value of the input is 0. This is a simple function that can be implemented in a neural network. The value of the input is 1, and the value of the output is 1. The value of the input is 0, and the value of the output is 0.

Logic on Associative Memory

The associative memory is a type of memory that stores information in a way that allows it to be retrieved quickly. It is used in many applications, such as pattern recognition and image processing. The value of the input is 1, and the value of the output is 1. The value of the input is 0, and the value of the output is 0.

Associative Memory Model

The third layer of the network is the output layer. It consists of one neuron that produces the final output. The value of the output is 1 when the value of the input is 1, and 0 when the value of the input is 0. This is a simple function that can be implemented in a neural network. The value of the input is 1, and the value of the output is 1. The value of the input is 0, and the value of the output is 0.



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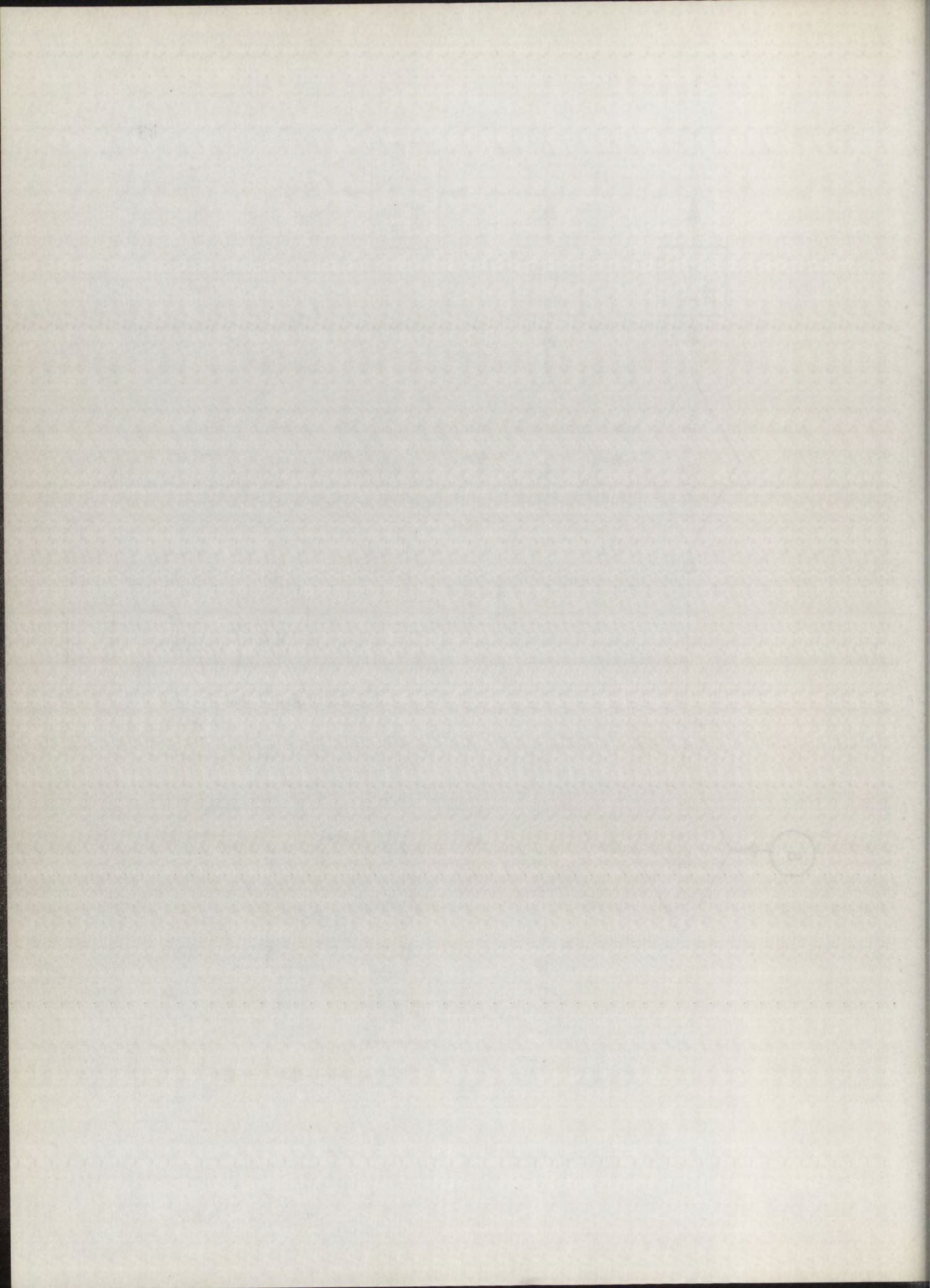
FIGURE 2—Continued

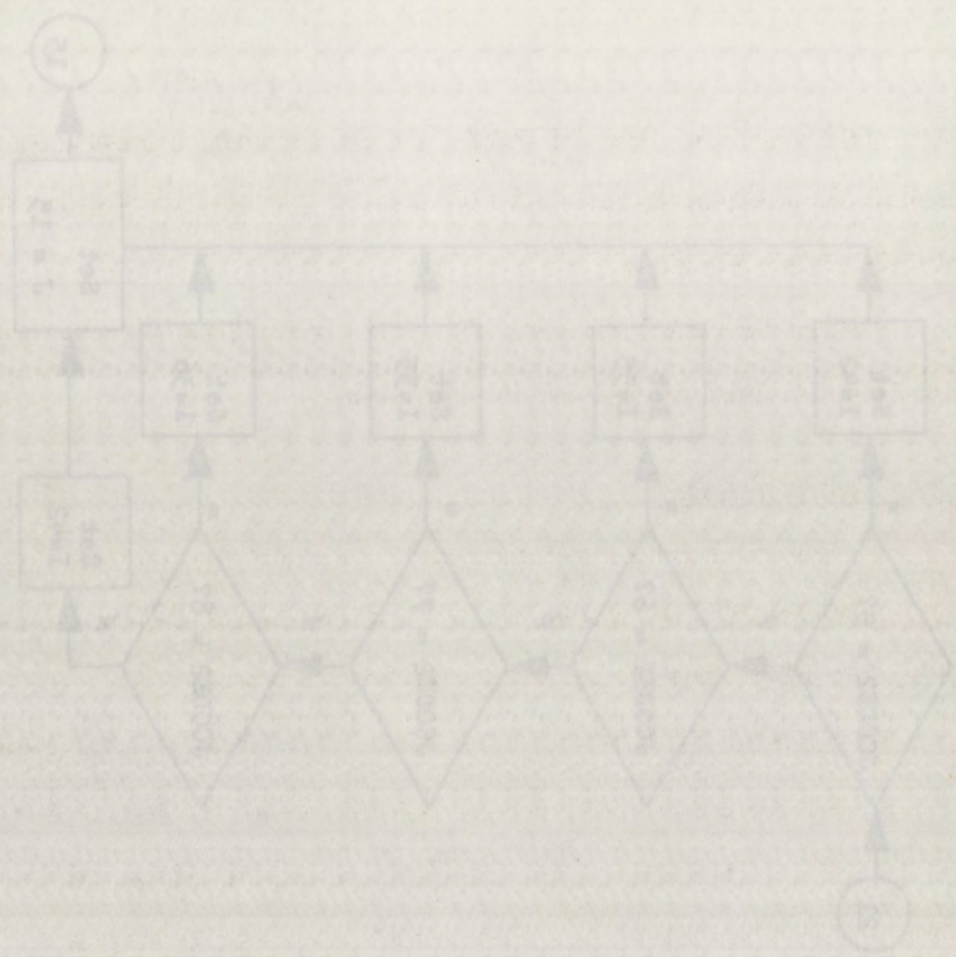


FIGURE 7--Continued

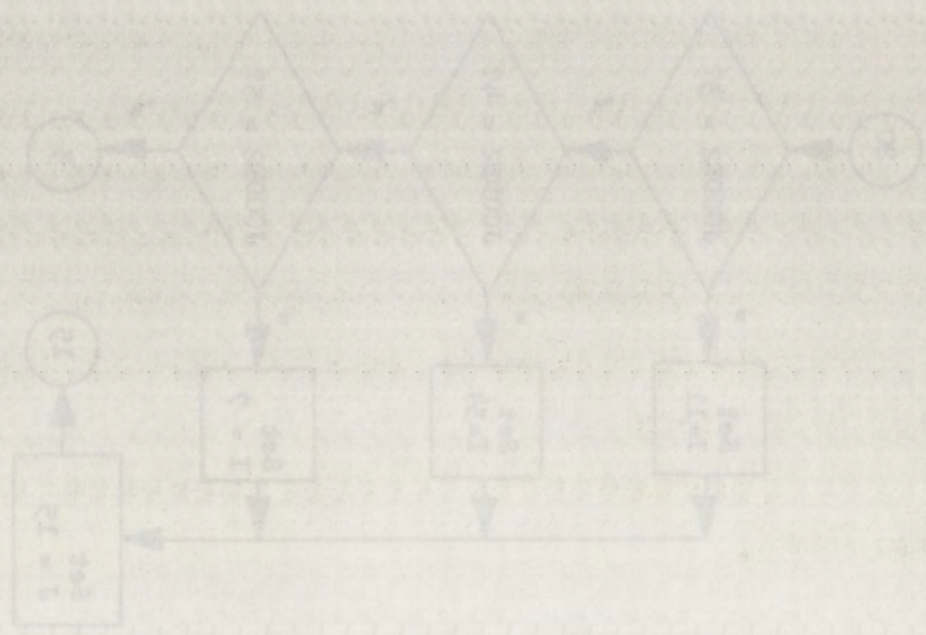


FIGURE 3
BASED ON ACCOUNT ROUTINE





Flowchart - 1000



from one to three, but the average is two. It is a fact that the
five. As before, the average of the number of children is two.
to the entire population.
Values are stated in Table 1 for each country. The
program intended for the family members.

Administrative findings

There is a need for further study in the area of the family
that could be used to help the family members, especially
have the first step in the family study.
A number of 25 cases were selected for study in 1954.
the total number of cases is 25. In the study
the total number of cases is 25. In the study
two, the total number of cases is 25. In the study
The results of the study are as follows:
be obtained in the study. The results of the study
some families is also included in the study.
case is presented in the study. The results of the study
interest and local groups on the study. The results of the study
The project was carried out in the study. The results of the study
and the results of the study are as follows:
The results of the study are as follows:
ends in the study.
The results of the study are as follows:
depression.



FIG. 1
 SYSTEM ARCHITECTURE



FIGURE 10--Continued



It is noted that the results of the present study are in agreement with those of other workers.

to increase the rate of

the rate of the reaction is increased by the addition of a catalyst.

It is concluded that the reaction is first order with respect to the reactants.

The rate of reaction is increased by the addition of a catalyst.

The rate of reaction is increased by the addition of a catalyst.

The rate of reaction is increased by the addition of a catalyst.

The rate of reaction is increased by the addition of a catalyst.

It is noted that the results of the present study are in agreement with those of other workers.

The rate of reaction is increased by the addition of a catalyst.

and the rate of reaction is increased by the addition of a catalyst.

The rate of reaction is increased by the addition of a catalyst.

It is noted that the results of the present study are in agreement with those of other workers.

References

1. J. H. Plesch, *Chemical Kinetics*, 2nd ed., Butterworths, London, 1958, p. 100.

2. J. H. Plesch, *Chemical Kinetics*, 2nd ed., Butterworths, London, 1958, p. 100.

Figure 1.

The rate of reaction is increased by the addition of a catalyst.

The rate of reaction is increased by the addition of a catalyst.

It is noted that the results of the present study are in agreement with those of other workers.

The rate of reaction is increased by the addition of a catalyst.

The rate of reaction is increased by the addition of a catalyst.

It is noted that the results of the present study are in agreement with those of other workers.

entry a few days in the

GILBERT

SUPPLEMENT

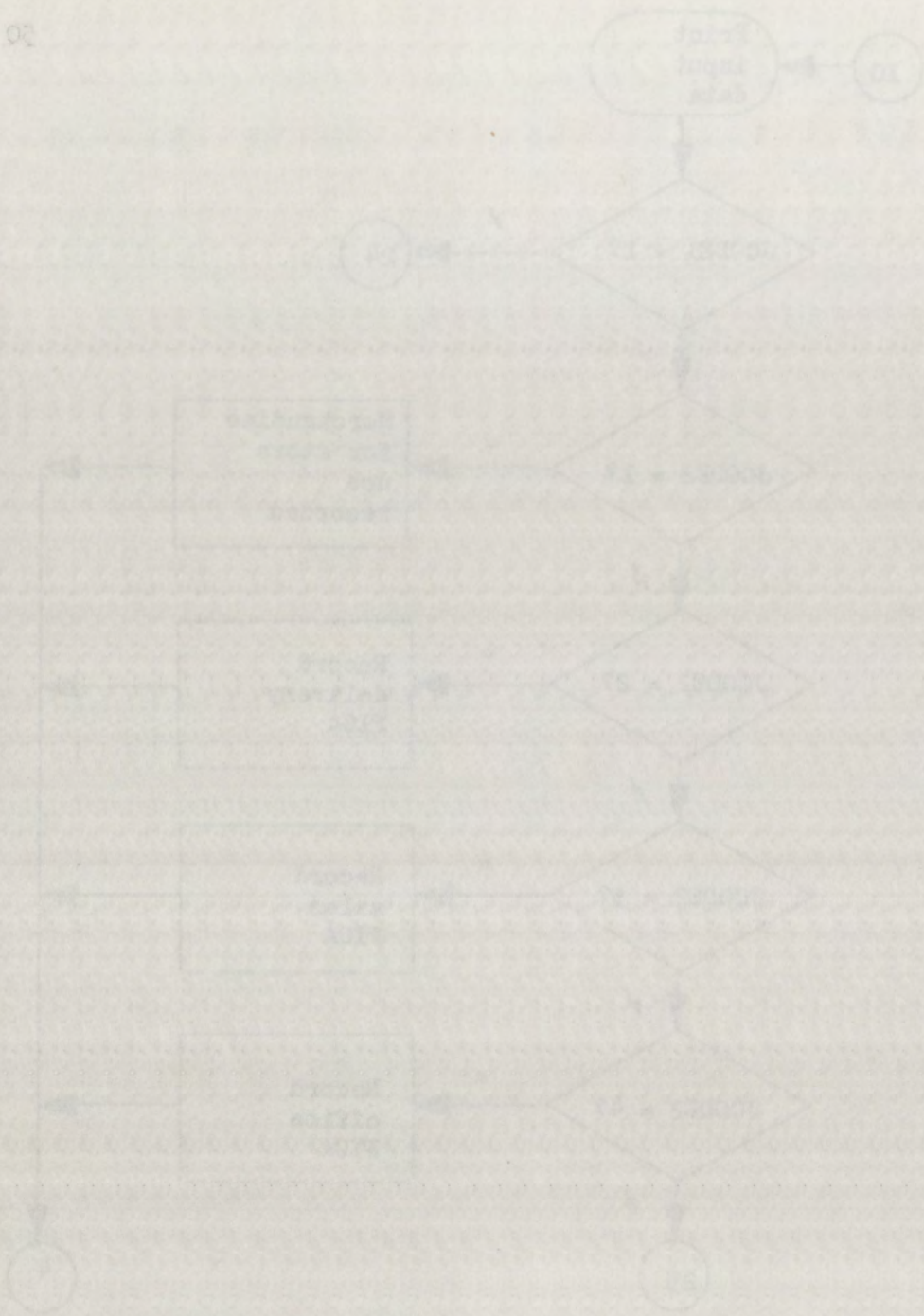


FIGURE 10

FIGURE 10

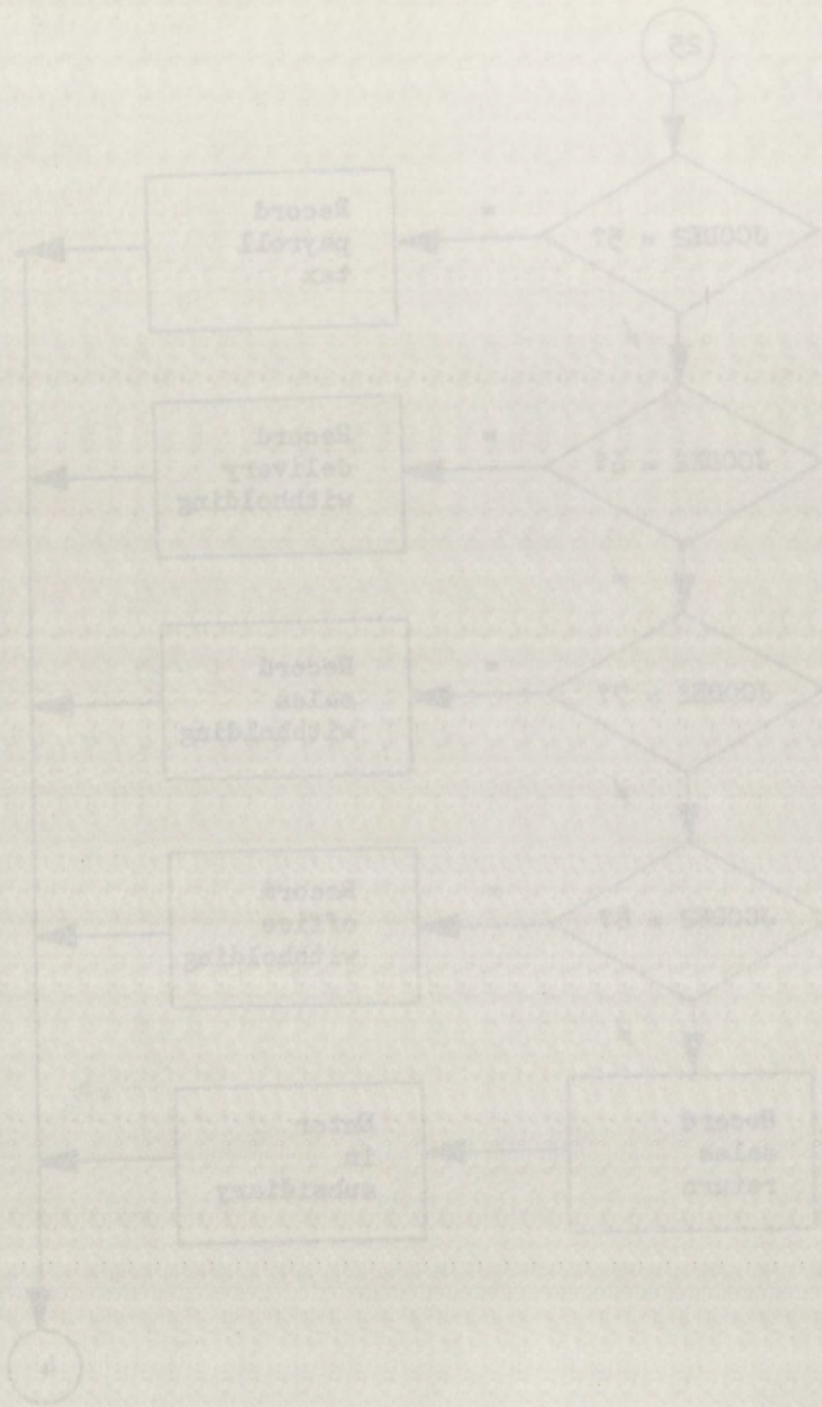




FIGURE 11-Continued

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COTTON FIBRE

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10

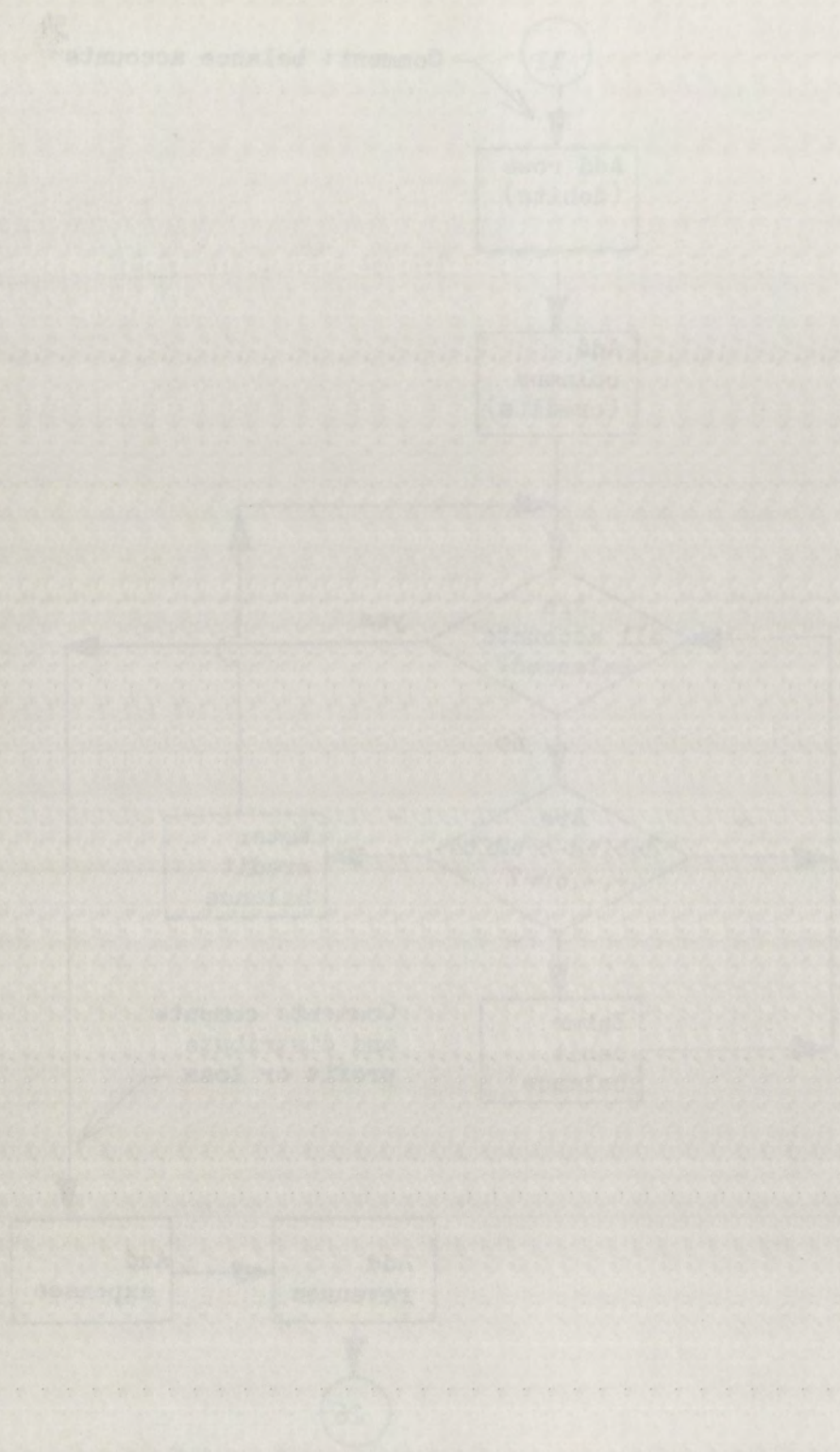


FIGURE 10

DATA PROCESSING SYSTEM

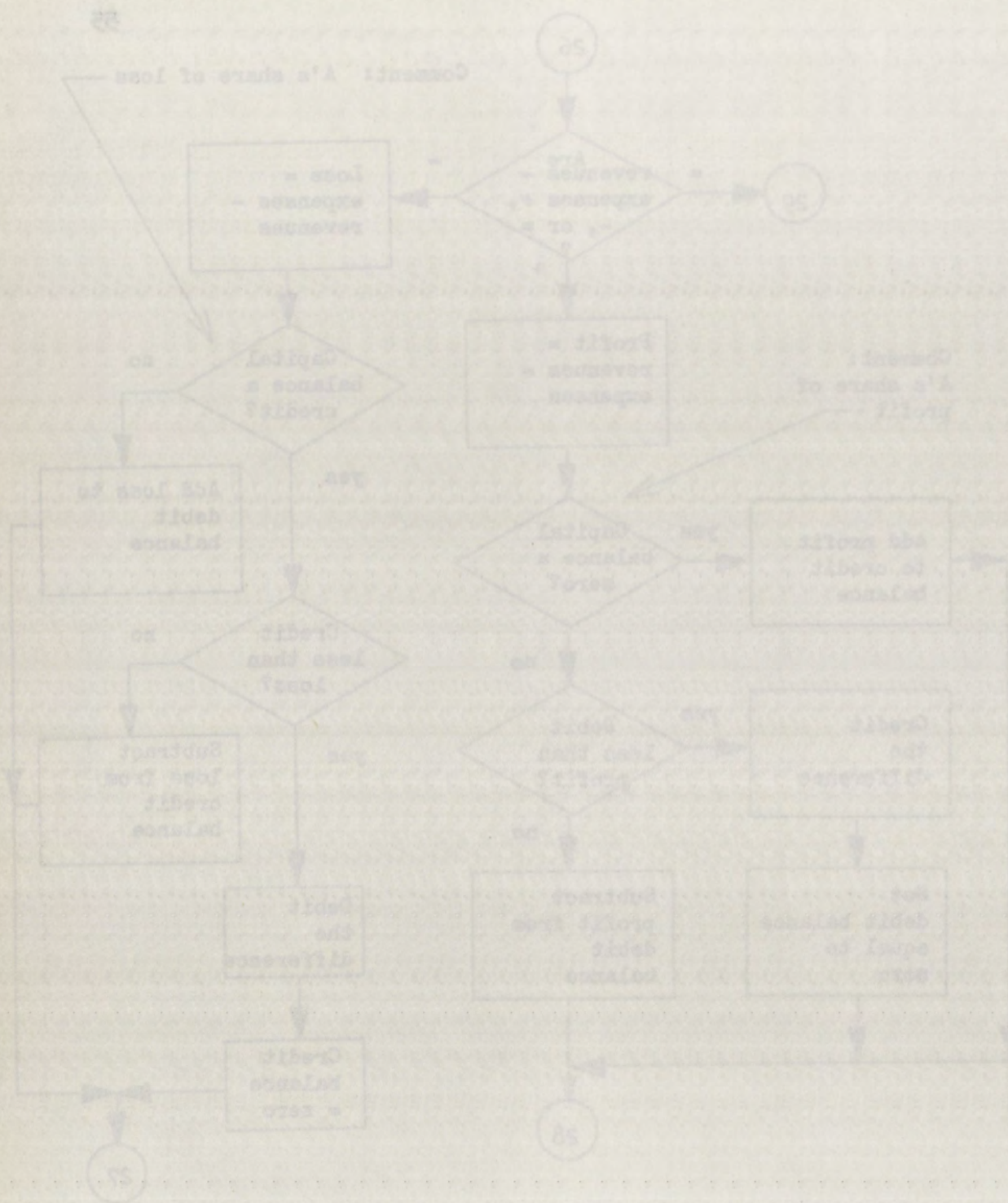


FIGURE 13-Continued

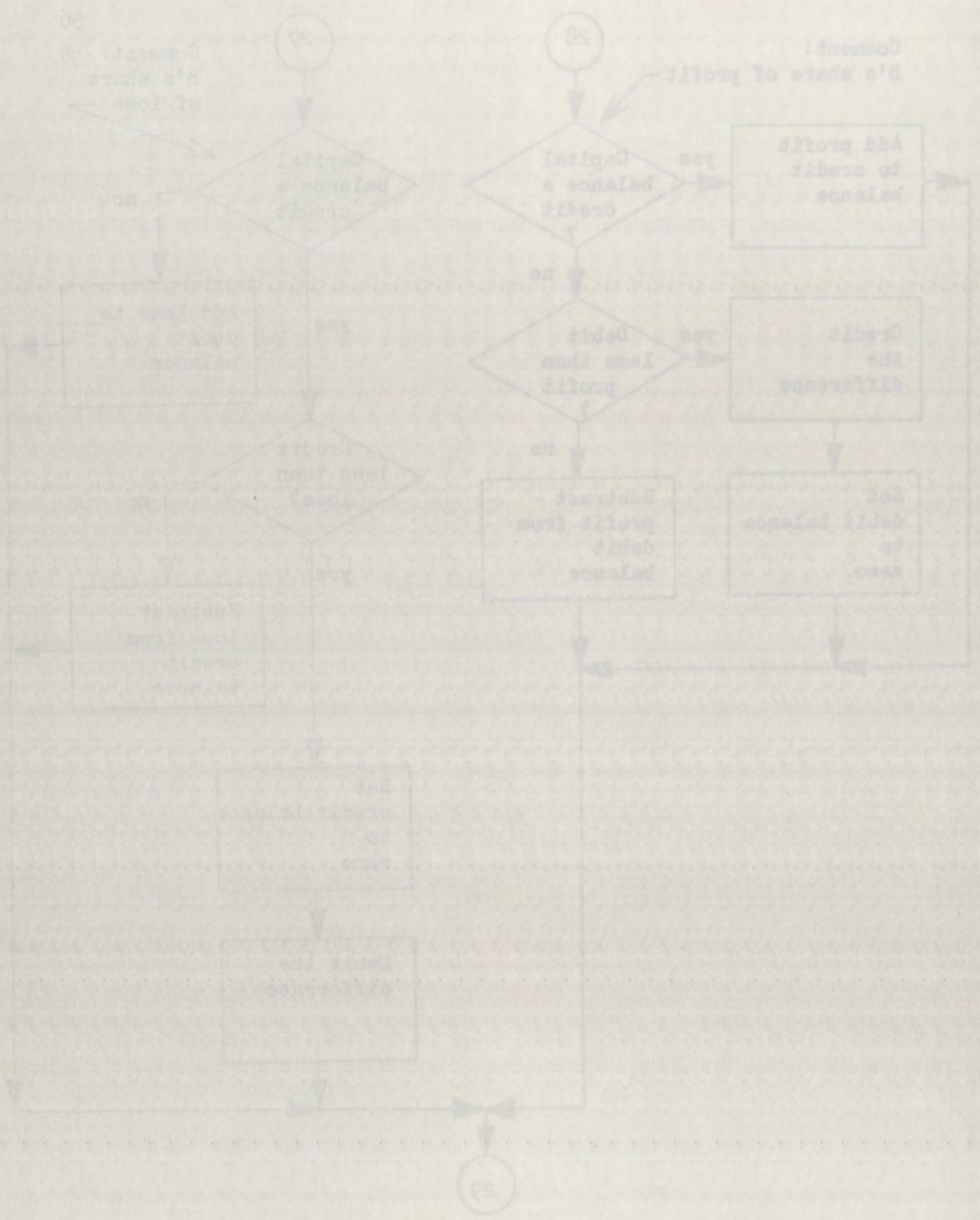
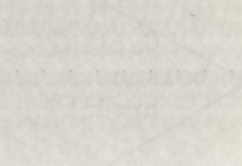
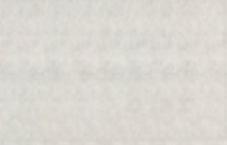
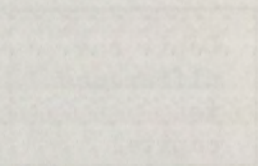
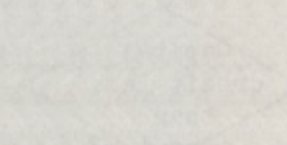
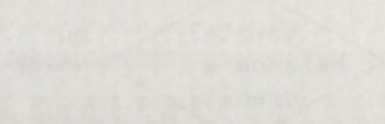


FIGURE 15--Continued



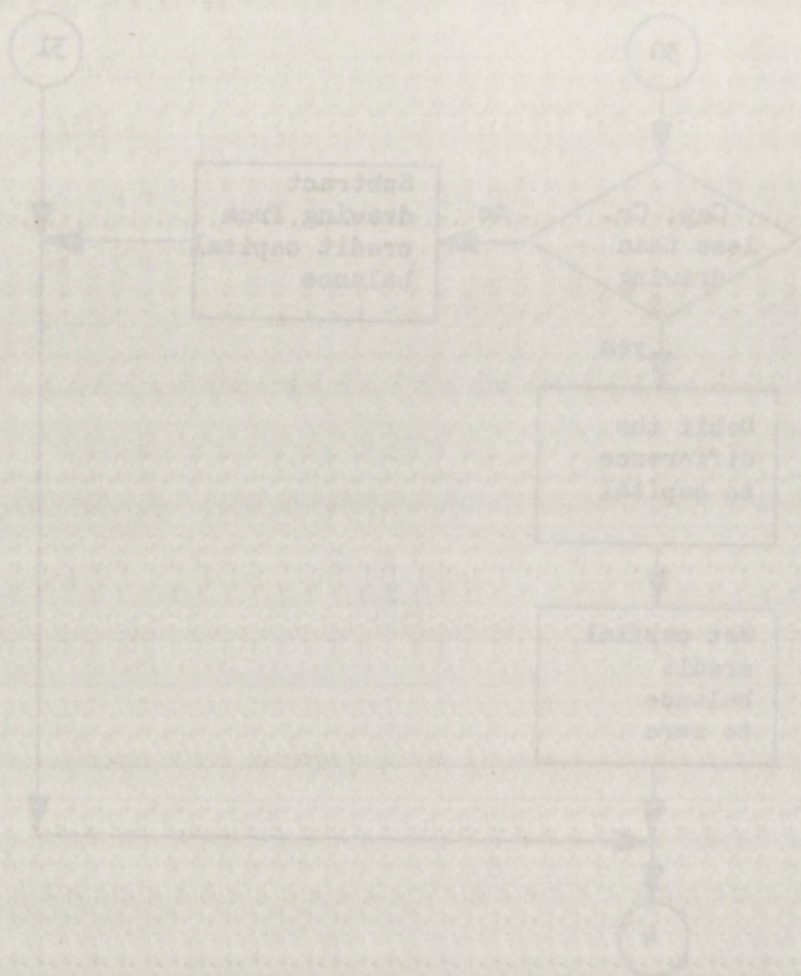


FIGURE 12-Continued

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 the debit balance is given, it is done by the records and the
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Final Remarks

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1. The first step is to identify the problem.

2. Next, you should gather all the relevant information.

3. Then, you need to analyze the information and determine the cause of the problem.

4. After that, you should develop a plan of action to solve the problem.

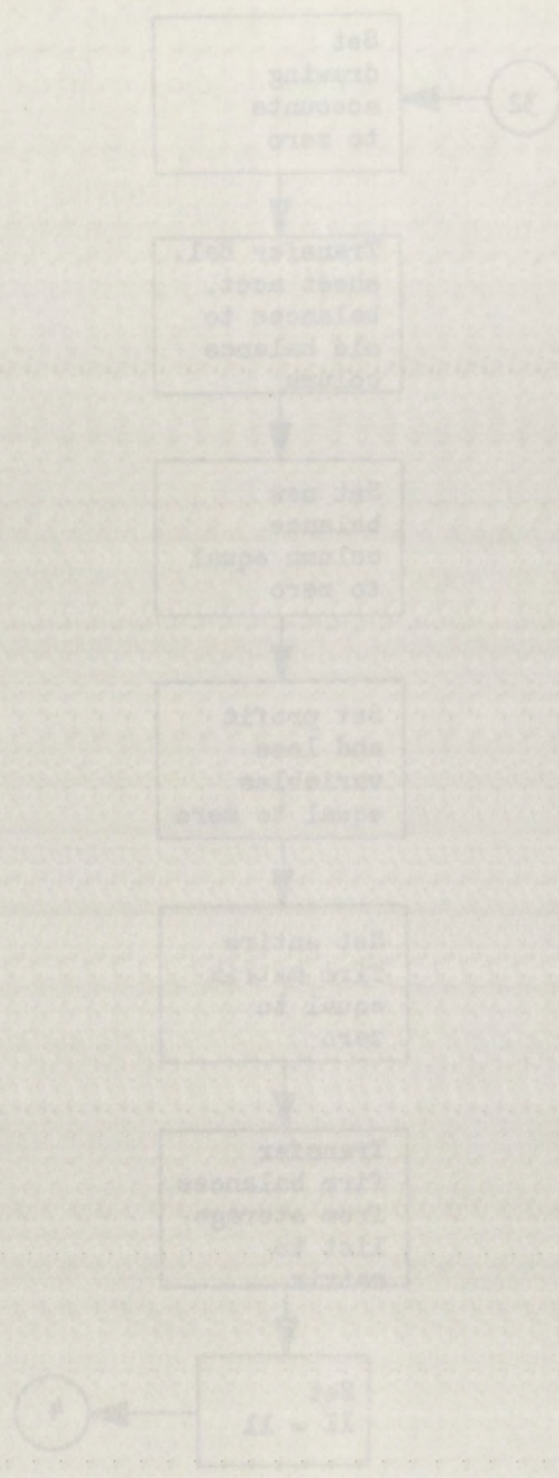
5. Finally, you should implement the plan and evaluate the results.

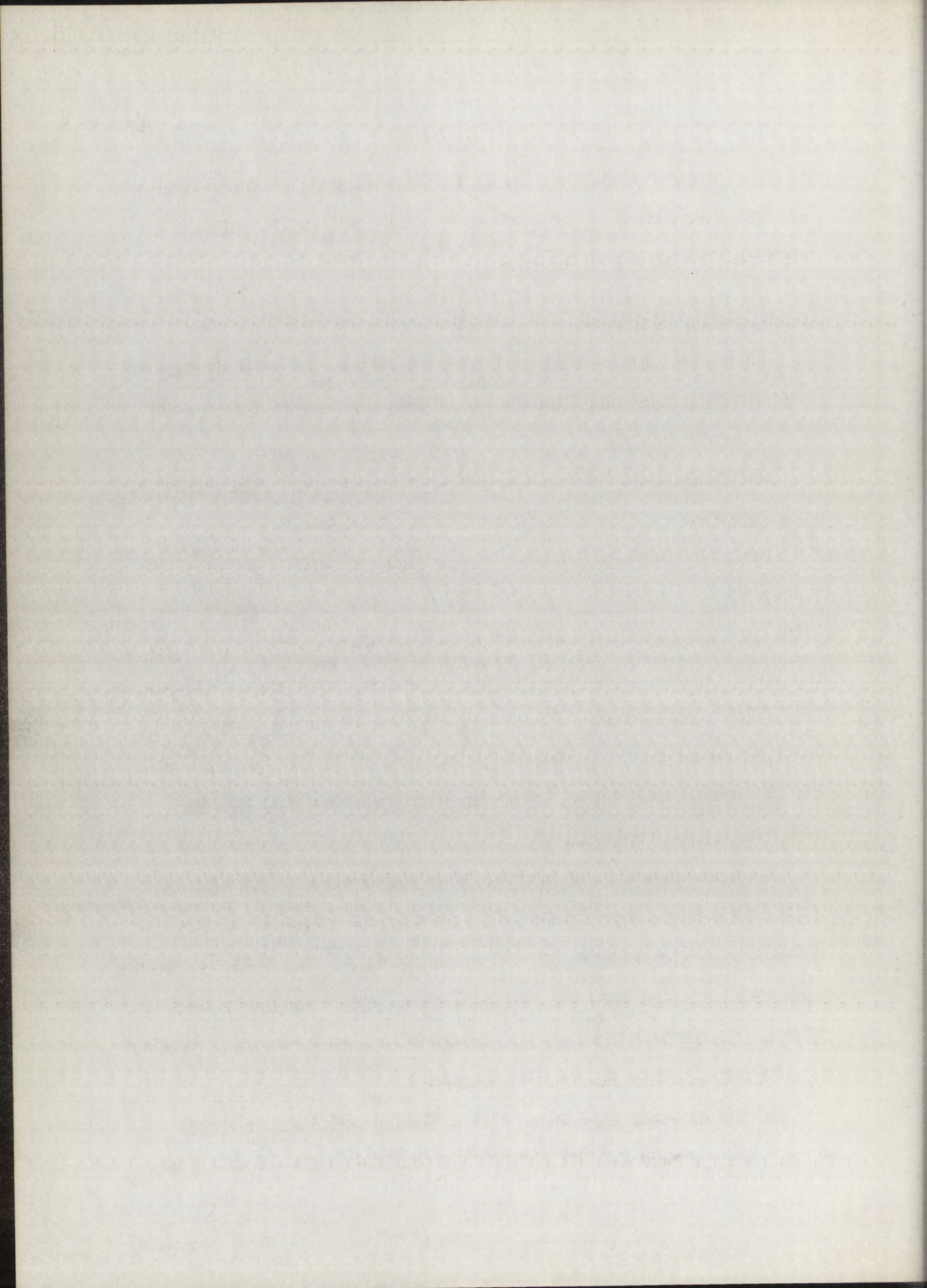
6. Once you have implemented the plan, you should monitor the results and make adjustments as needed.

13

THE END

THANK YOU FOR YOUR ATTENTION





should be read that its purpose is to ensure that the interest in the property is not lost to the individual members of the family.

General Interest

The general interest in the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

The interest in the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

Next, the interest in the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

whereas it is a right which is total, exclusive, and binding upon all members of the family in the same manner.

entitled by law to the same interest in the property as the other members of the family.

The same right and interest in the property is held by all members of the family in the same manner.

A right which is total, exclusive, and binding upon all members of the family in the same manner.

title in the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

account of the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

entire interest in the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

The right of the family in the property is a right which is total, exclusive, and binding upon all members of the family in the same manner.

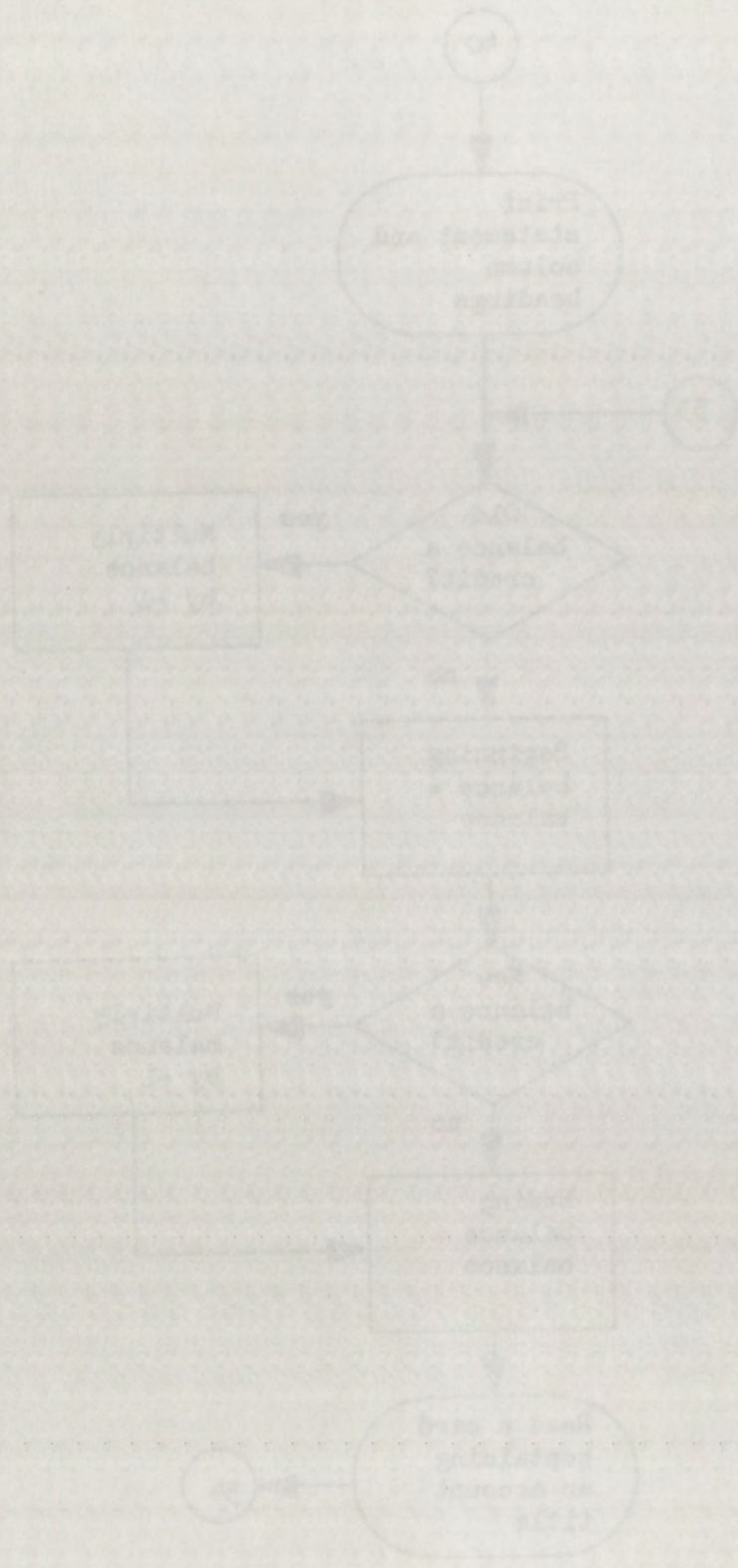


FIGURE 12

GENERAL LEADING SYSTEM

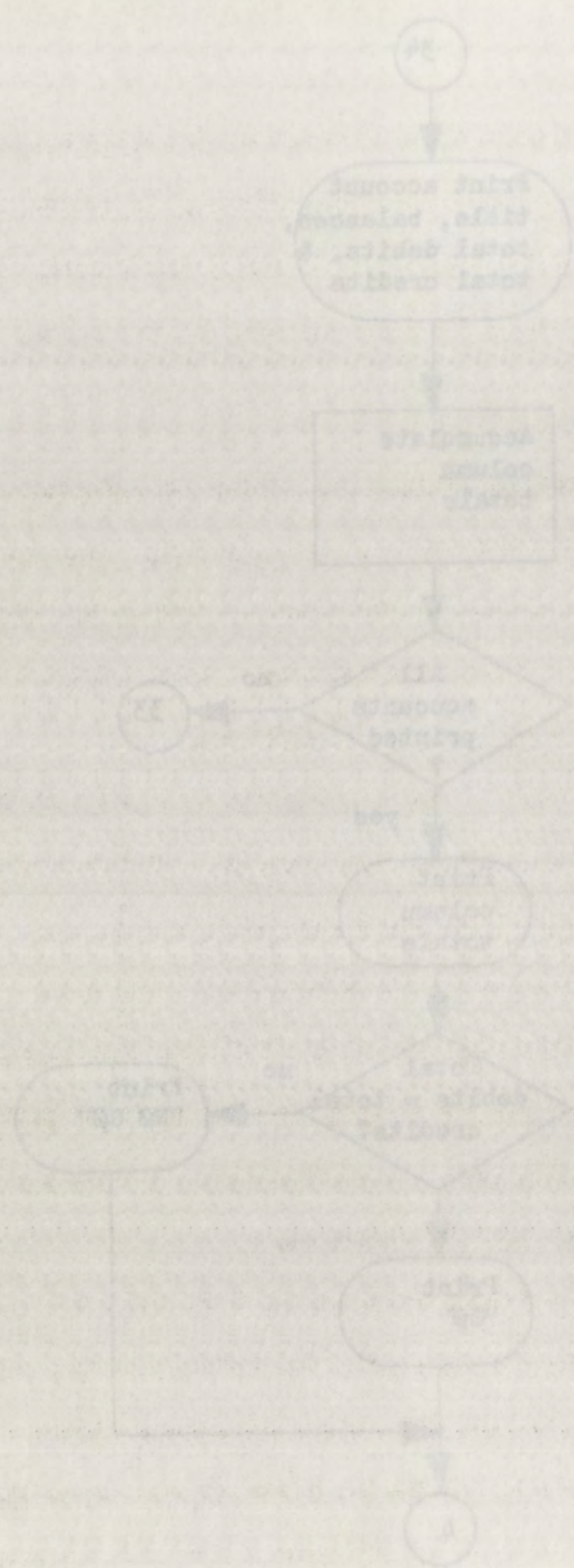


Figure 12-Continued

22% COTTON FIBRE

the fact that the... the fact that the... the fact that the...

Local Market

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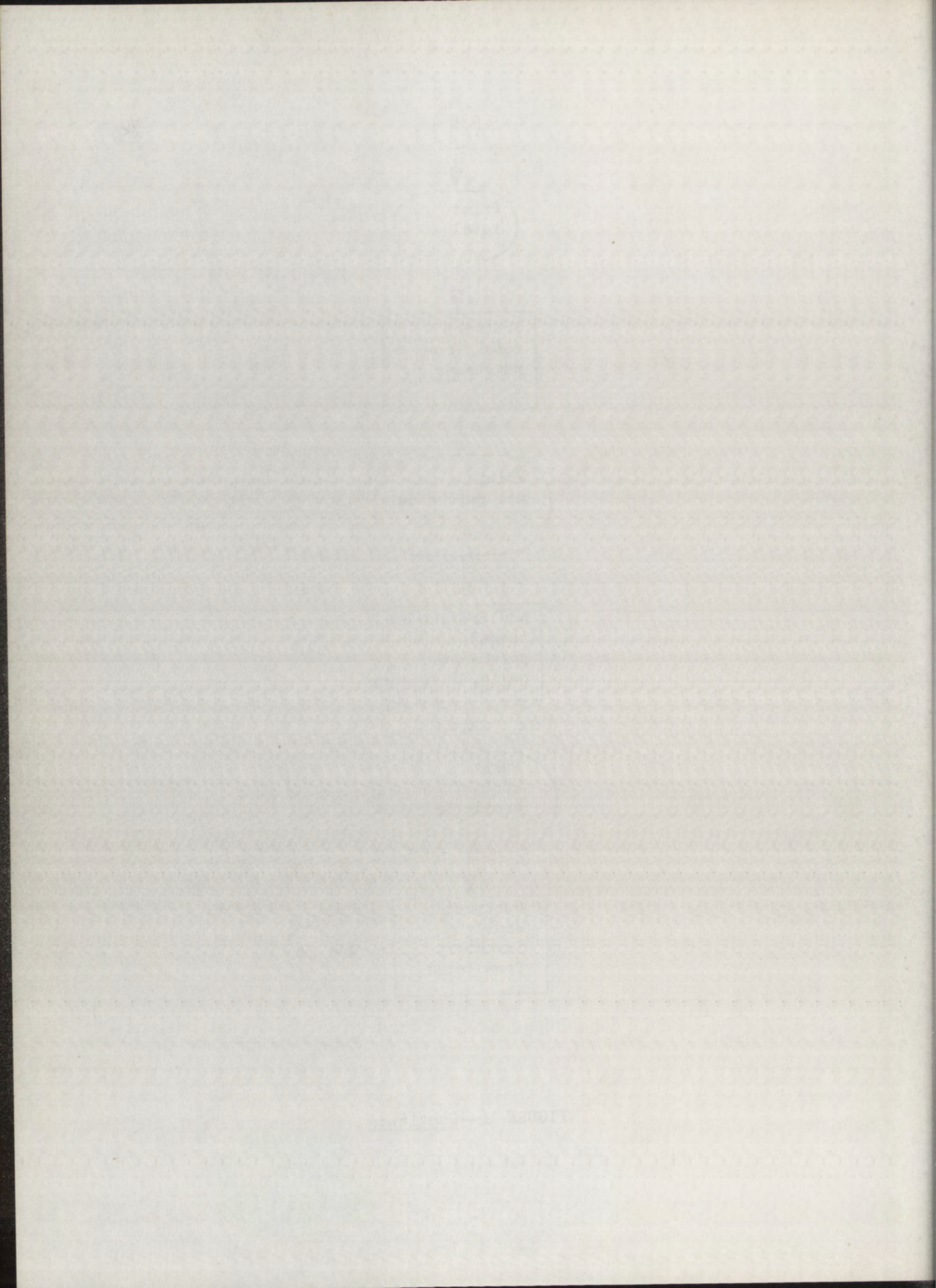
...the market... the market... the market... the market...

...the market... the market... the market... the market...

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FIGURE 11
 INCOME STATEMENT MODEL



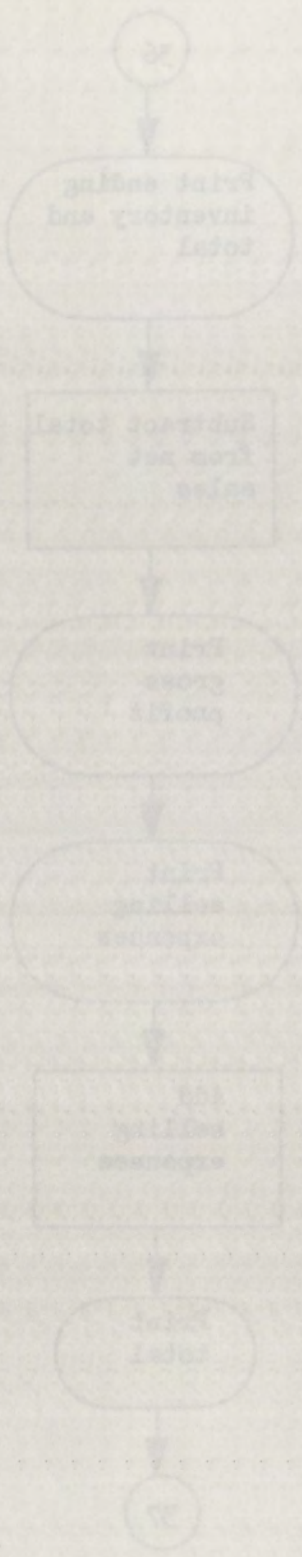
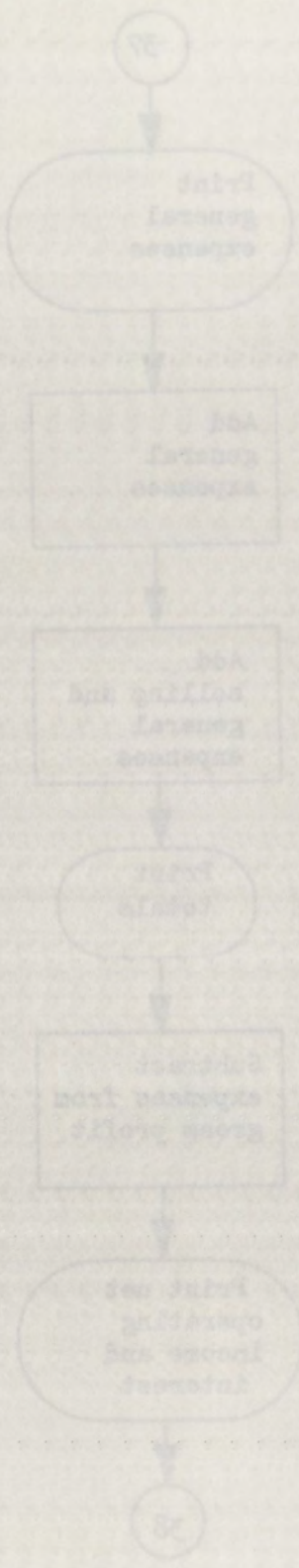


FIGURE 10—Continued

7



Form 10-Continued

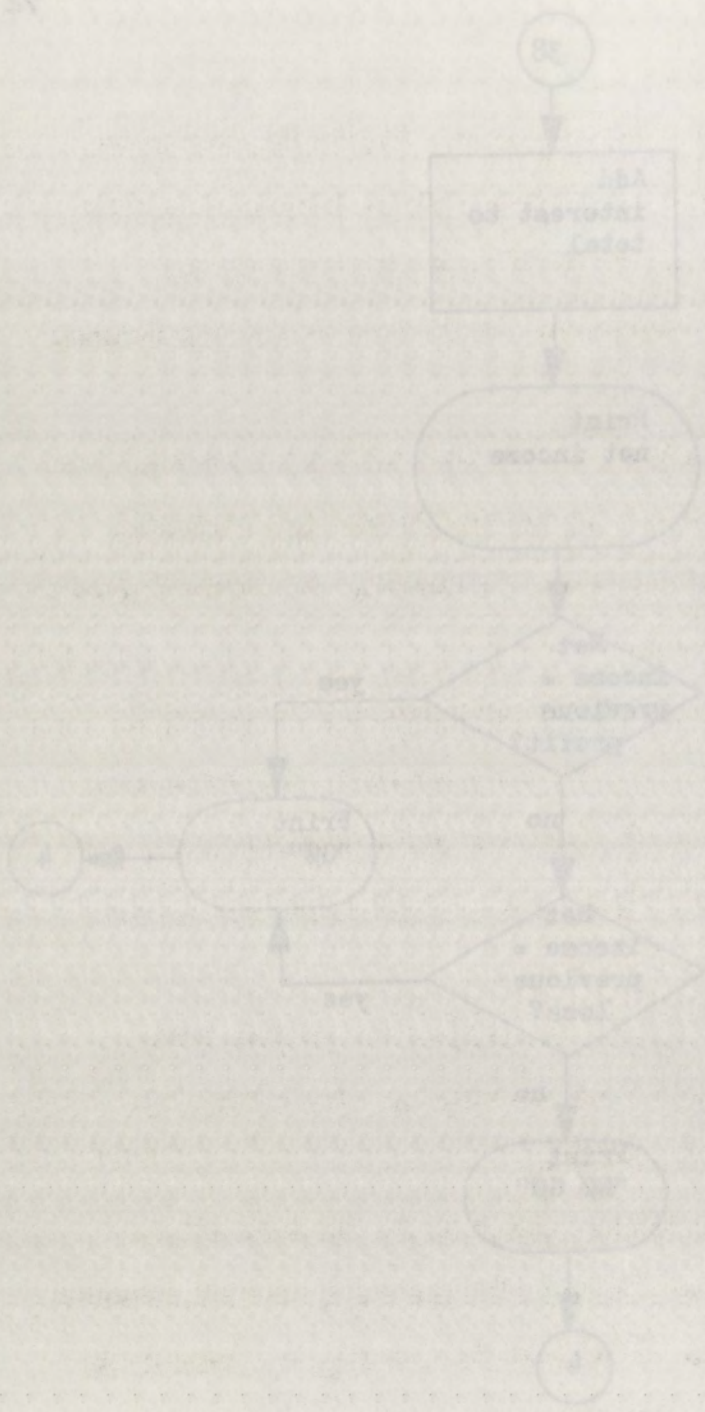


Figure 10 - Continued

The purpose of this statement is to provide a clear and concise summary of the financial position of the company as of the end of the reporting period. The balance sheet is one of the primary financial statements used by investors and creditors to assess the company's financial health.

The balance sheet is divided into two main sections: assets and liabilities. Assets represent the resources owned by the company, while liabilities represent the obligations or debts of the company. The total assets must equal the total liabilities plus equity.

Assets are categorized into current assets, which are expected to be converted into cash or sold within one year, and non-current assets, which are held for long-term use. Liabilities are categorized into current liabilities, due within one year, and non-current liabilities, due after one year.

Equity, or owner's equity, represents the residual interest in the assets of the company after all liabilities have been deducted. It is divided into common stock and retained earnings. Retained earnings represent the cumulative profits that have been reinvested in the company.

The balance sheet provides a snapshot of the company's financial position at a specific point in time. It is essential for understanding the company's ability to meet its short-term obligations and its overall financial stability. The balance sheet is a key component of the company's financial reporting and is used by management, investors, and other stakeholders to make informed decisions.

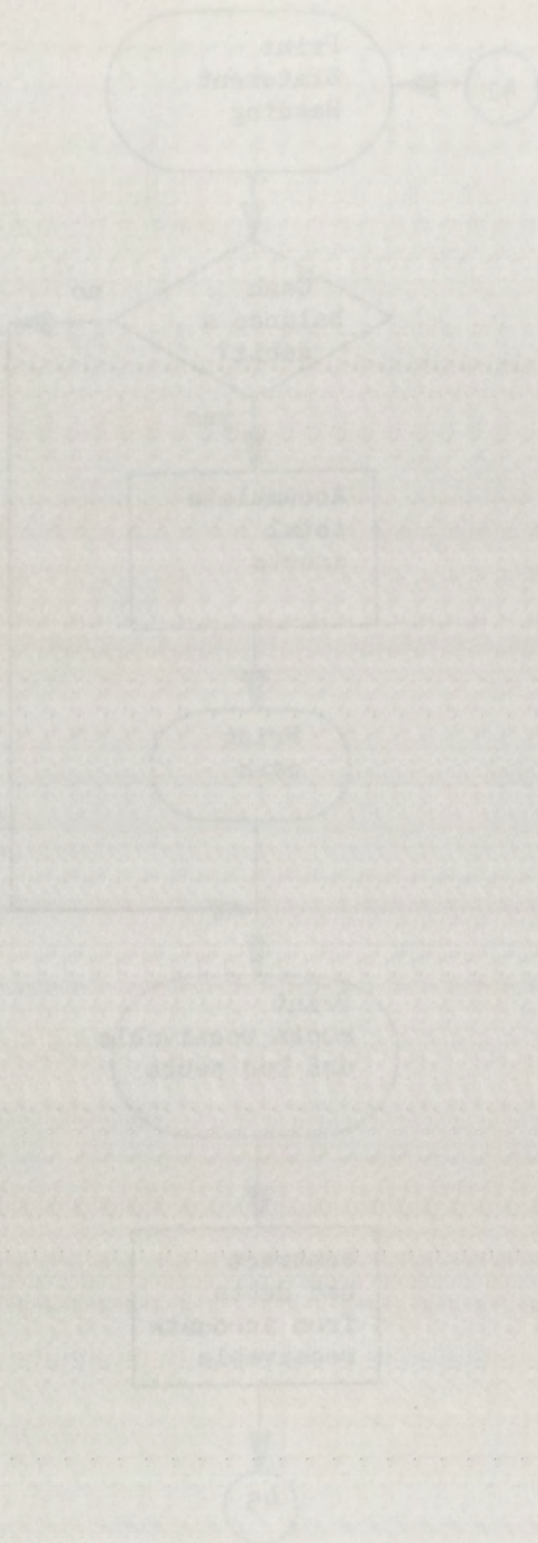


FIGURE 1
BALANCE SHEET PRINTING

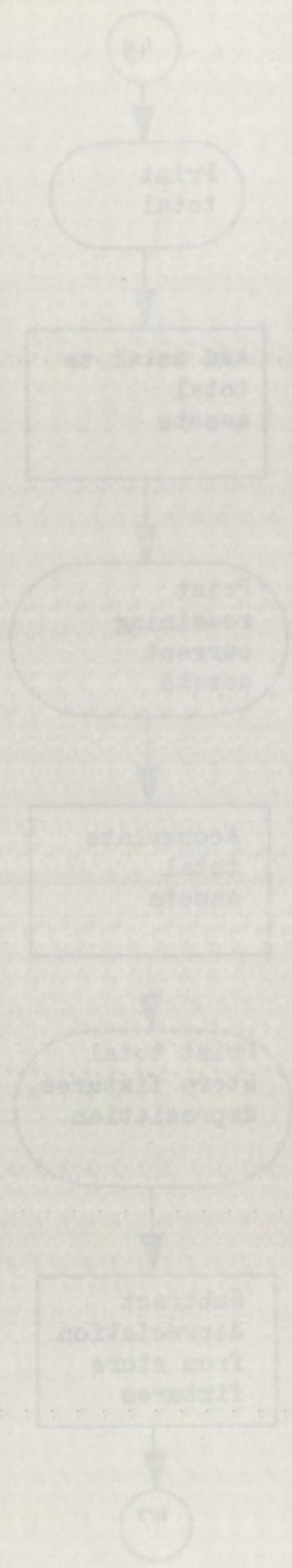
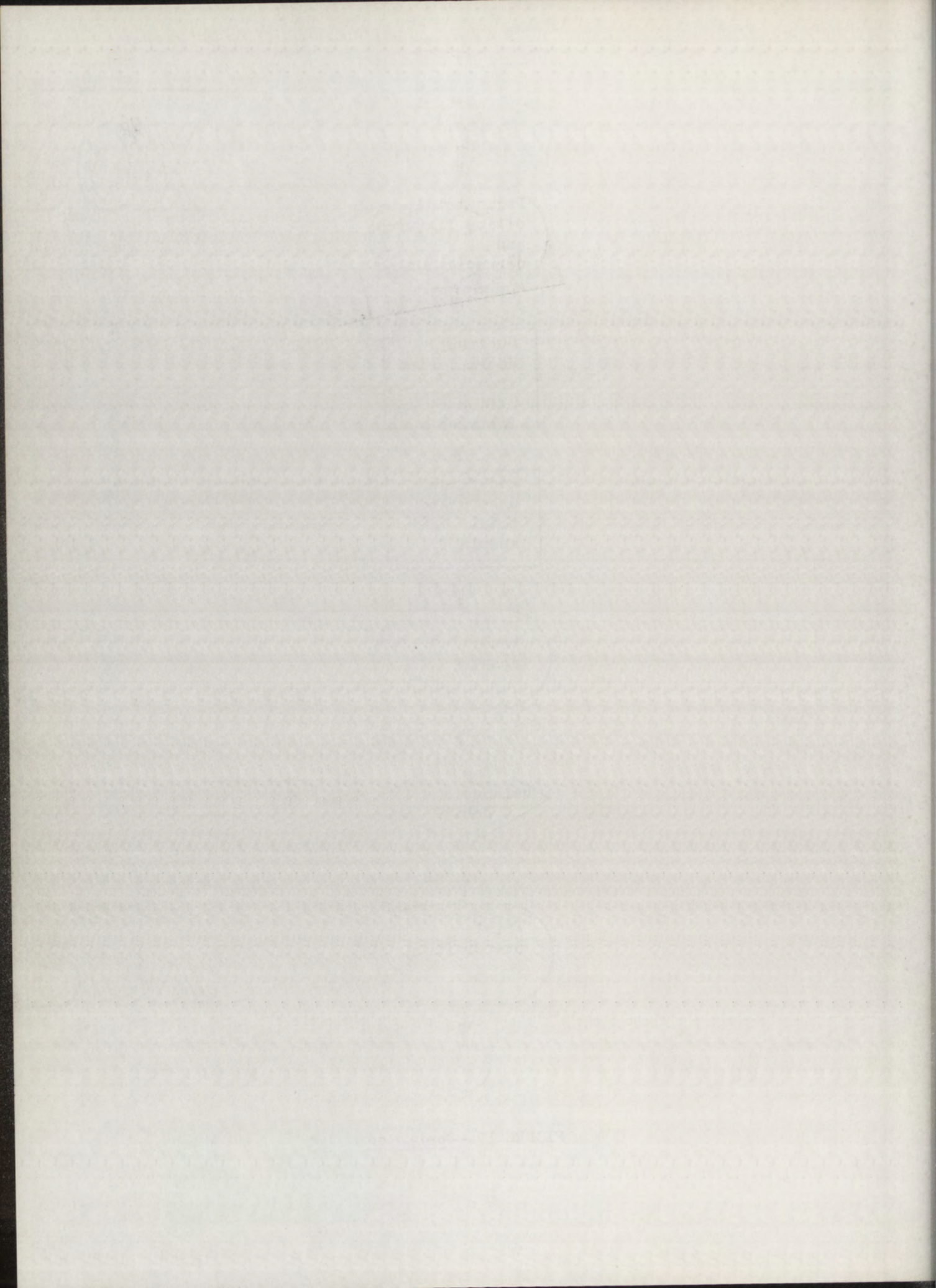


FIGURE 12--Continued



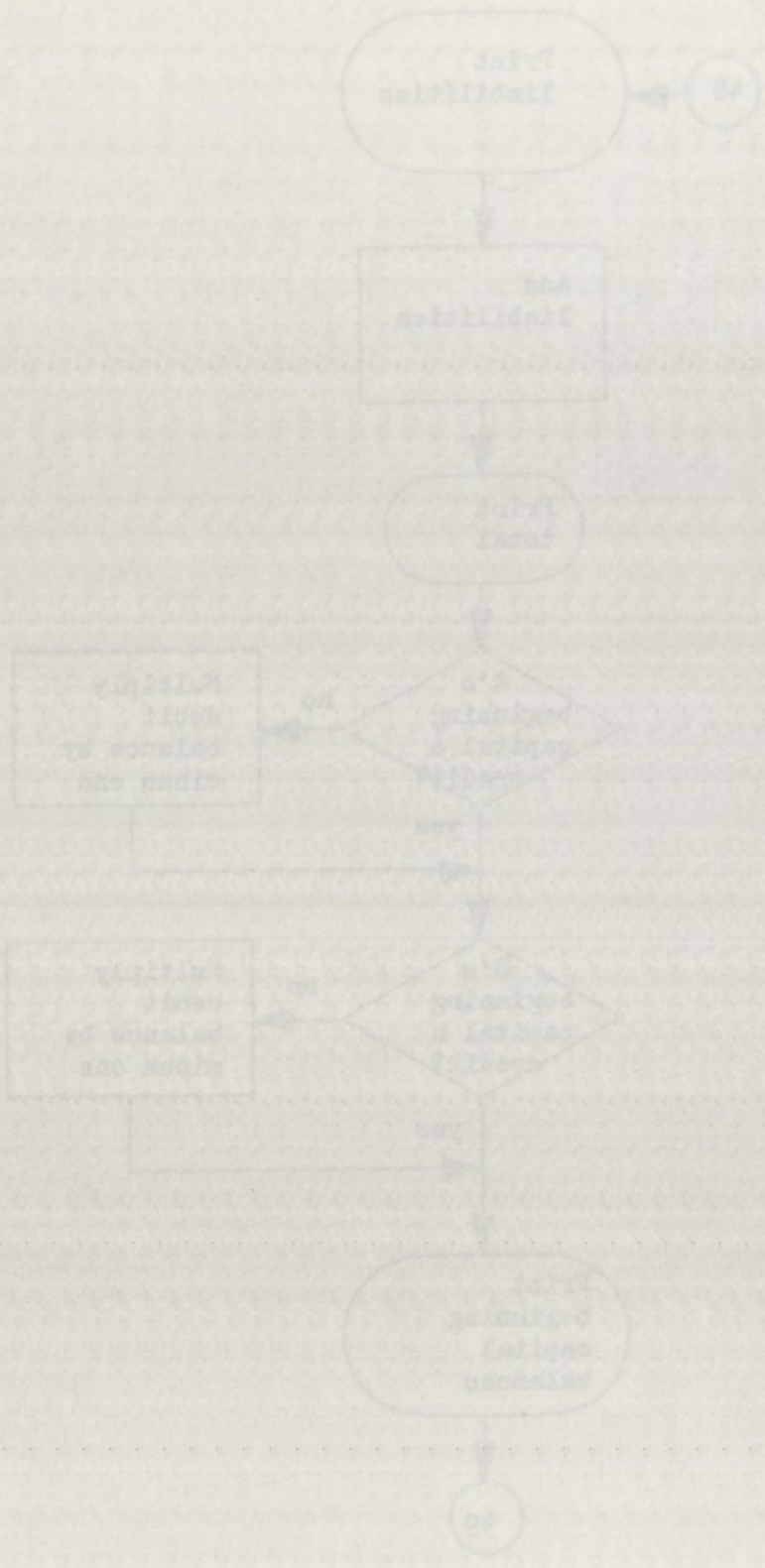


FIGURE 17--Continued

PROX

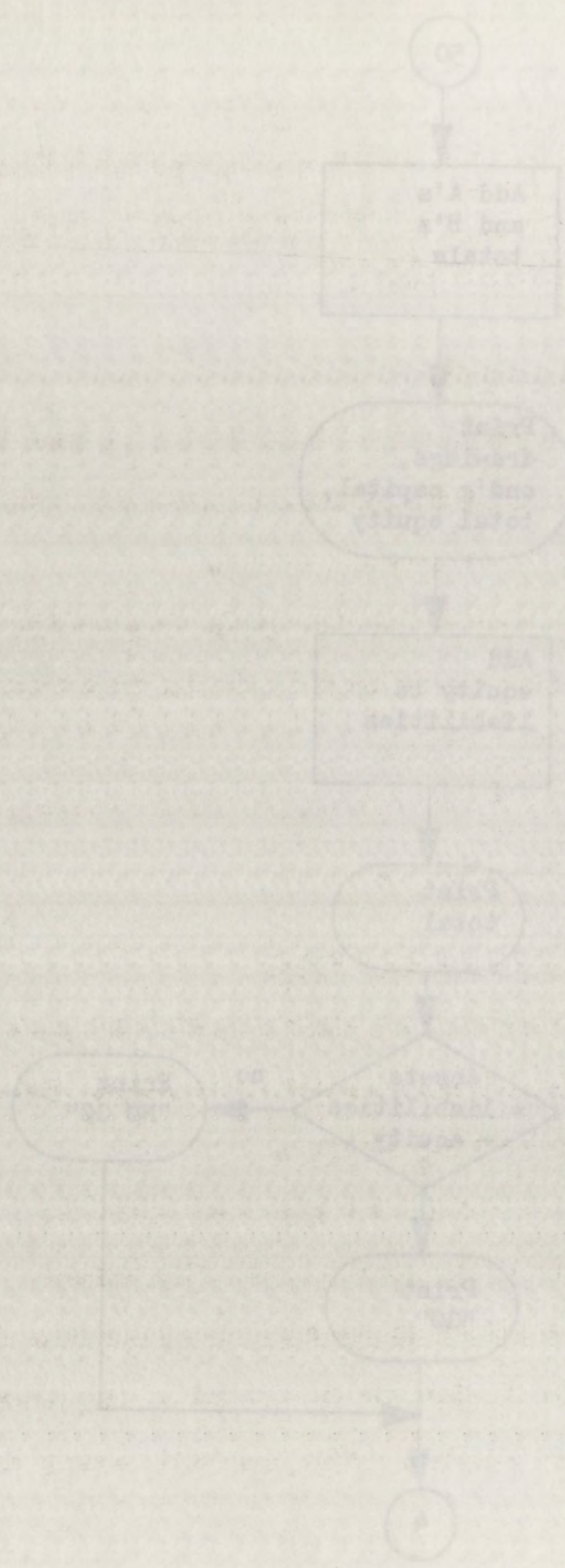


FIGURE 17-Continued

The above figures are stated in thousands of dollars. The total amount for A and B, 1957, is \$1,000,000. The total amount for A and B, 1958, is \$1,000,000.

Statement of Assets and Liabilities

The schedule of assets and liabilities for 1957 and 1958 is presented below. The schedule of assets and liabilities for 1957 is presented in the schedule of assets and liabilities for 1957. The schedule of assets and liabilities for 1958 is presented in the schedule of assets and liabilities for 1958.

Total Assets and Liabilities

The total assets and liabilities for 1957 and 1958 are presented in the schedule of assets and liabilities for 1957 and 1958. The total assets and liabilities for 1957 are \$1,000,000. The total assets and liabilities for 1958 are \$1,000,000.

The total assets and liabilities for 1957 and 1958 are presented in the schedule of assets and liabilities for 1957 and 1958. The total assets and liabilities for 1957 are \$1,000,000. The total assets and liabilities for 1958 are \$1,000,000.

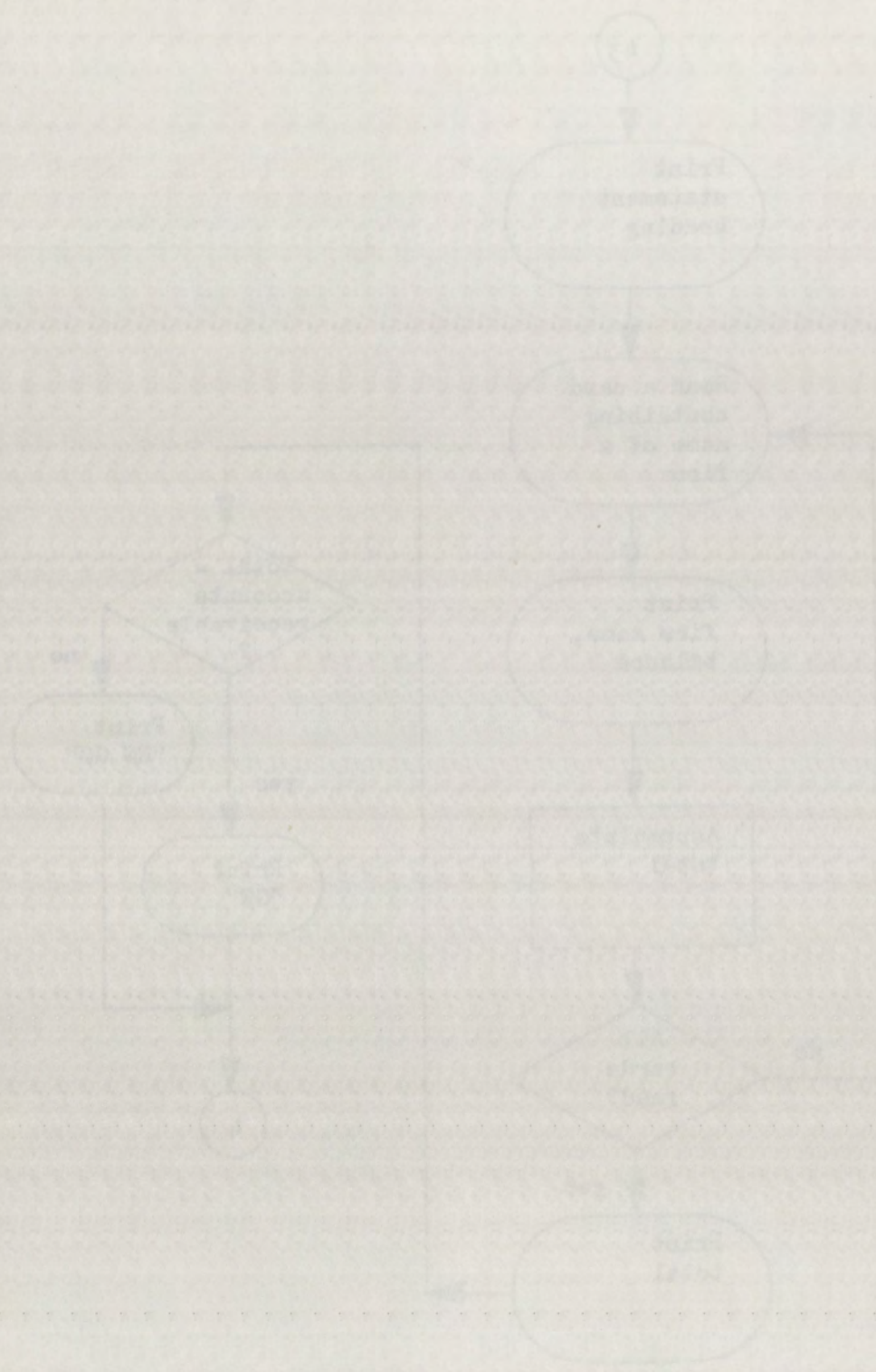


FIGURE 10
 SCHEMATIC OF A SIMPLE CONTROL SYSTEM

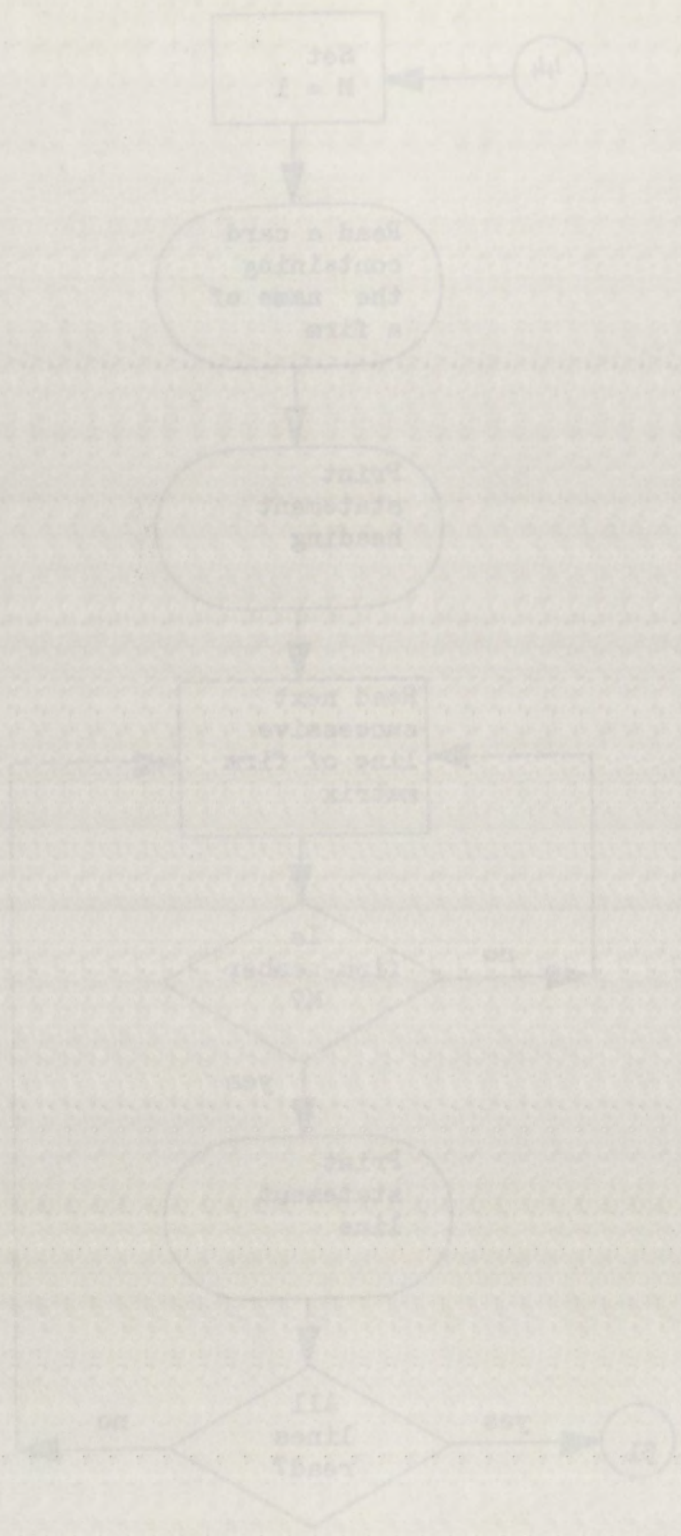
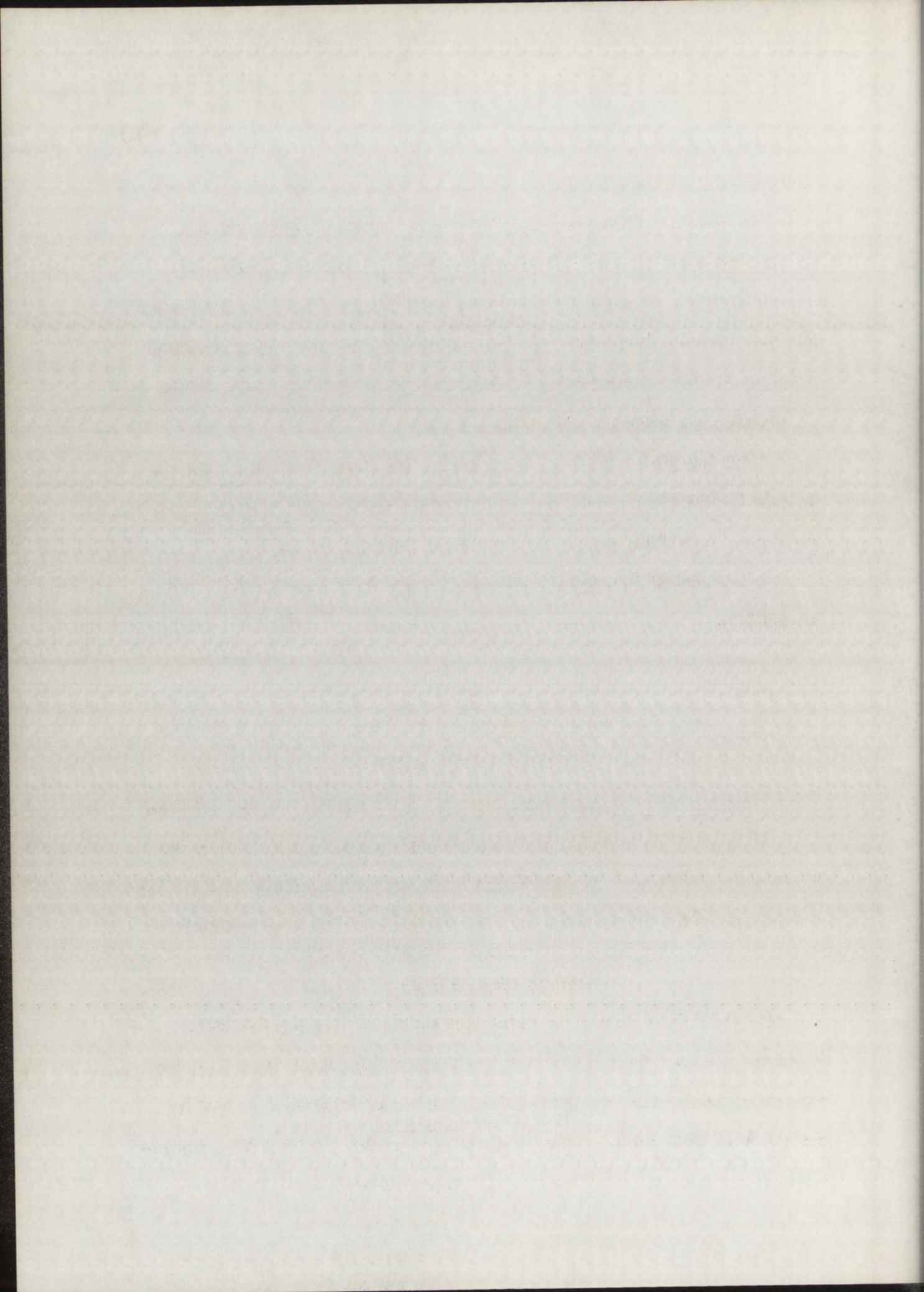


FIGURE 10
INDIVIDUAL ACCOUNTS RECEIVABLE STATEMENTS LISTING



Account Matrix Update History

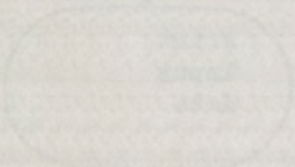
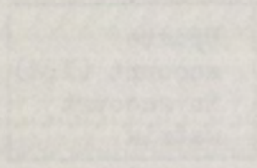
The matrix update history is a record of all changes made to the account matrix in the past year. It includes the date and time of the update, the user who made the update, and the changes made. The matrix update history is a critical part of the account management process and is used to track changes and identify any issues. The matrix update history is a record of all changes made to the account matrix in the past year. It includes the date and time of the update, the user who made the update, and the changes made. The matrix update history is a critical part of the account management process and is used to track changes and identify any issues.

Error Summary

This section provides a summary of the errors that have occurred in the account management process. It includes the date and time of the error, the user who made the error, and the error message. The error summary is a critical part of the account management process and is used to identify and resolve any issues. The error summary is a record of all errors that have occurred in the account management process. It includes the date and time of the error, the user who made the error, and the error message. The error summary is a critical part of the account management process and is used to identify and resolve any issues.

Account Management

The account management process is a critical part of the account management process and is used to track changes and identify any issues. The account management process is a record of all changes made to the account matrix in the past year. It includes the date and time of the update, the user who made the update, and the changes made. The account management process is a critical part of the account management process and is used to track changes and identify any issues.



UNIT OF WORKS

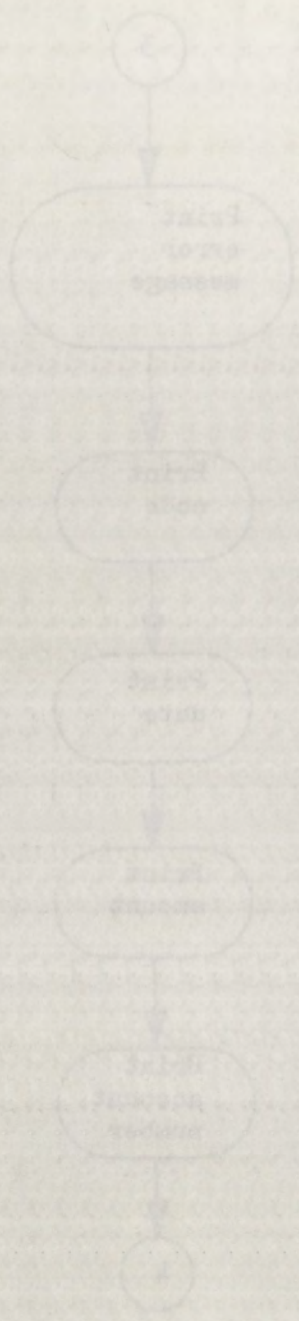


FIGURE 21

PRINTING ROUTINE

30 FEBRUARY 1951
AIR CORP HQ

The financial statements are prepared in accordance with the accounting period. They are prepared for the period ending on the order of the directors. The accounts are prepared for the schedule of accounts prescribed. The accounts are prepared in accordance with the provisions of the Companies Act, 1947. Therefore, the financial statements must be prepared in accordance with the schedule called for.

During the preparation of the financial statements, the directors are required to exercise their powers and duties. The directors are required to ensure that the financial statements are prepared in accordance with the provisions of the Companies Act, 1947. The directors are also required to ensure that the financial statements are prepared in accordance with the schedule called for.

The end-of-year audit is a necessary part of the financial statements. The audit is conducted by an independent auditor. The auditor is required to examine the financial statements and to report on their accuracy. The auditor is also required to ensure that the financial statements are prepared in accordance with the provisions of the Companies Act, 1947. The audit is conducted in accordance with the schedule called for.

When a transaction is entered into, the directors are required to ensure that it is in the best interests of the company. The directors are also required to ensure that the transaction is conducted in accordance with the provisions of the Companies Act, 1947. The directors are also required to ensure that the transaction is conducted in accordance with the schedule called for.

If an error is made in the financial statements, the directors are required to ensure that it is corrected. The directors are also required to ensure that the error is corrected in accordance with the provisions of the Companies Act, 1947. The directors are also required to ensure that the error is corrected in accordance with the schedule called for.

It is noted in the report of the committee that the results of the study
by a small group of students in the field of psychology
point out of the fact that the results of the study are
not in line with the results of the study of the
The need for a further study is indicated by the fact
which a total failure is indicated by the results of
books and articles, which are indicated by the results of
The total out of the study and the results of the study
for this purpose in other countries. The results of the study
requested that it is necessary for the study of the
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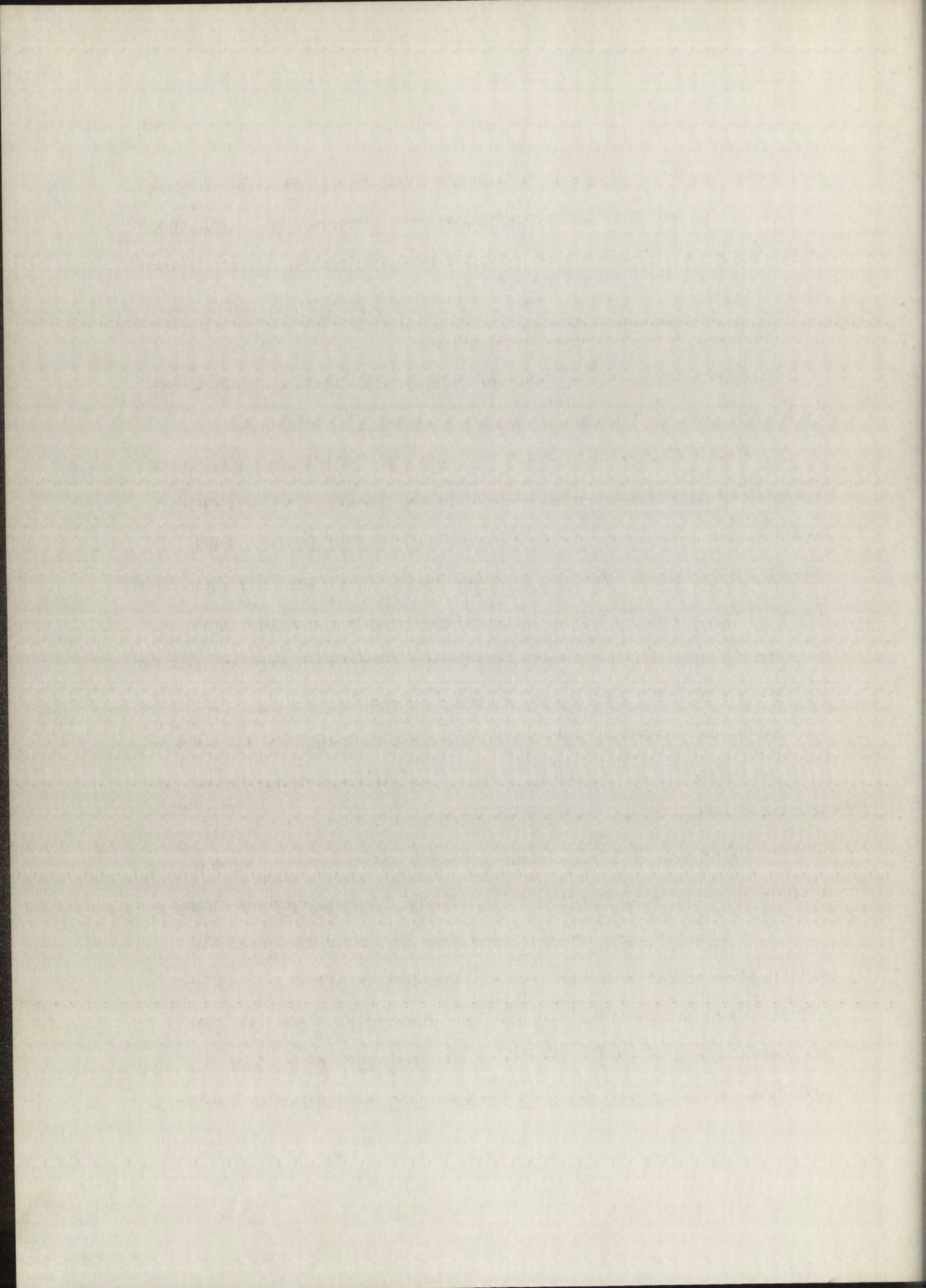
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The first phase of the program is to identify the specific needs of the participants. This is done through a series of interviews and focus groups. The second phase is to develop a curriculum that addresses these needs. This is done through a series of workshops and consultations with experts in the field. The third phase is to implement the program and evaluate its effectiveness. This is done through a series of surveys and focus groups.

A second phase in the program is to develop a curriculum that addresses the needs of the participants. This is done through a series of workshops and consultations with experts in the field. The curriculum is developed in a way that is both relevant and engaging for the participants. It includes a variety of activities, including lectures, case studies, and group exercises.

The program is implemented in a way that is both relevant and engaging for the participants. It includes a variety of activities, including lectures, case studies, and group exercises. The program is evaluated through a series of surveys and focus groups. The results of the evaluation are used to improve the program and make it more effective.

Cost-effective programs may be designed to address the needs of the participants. This is done through a series of workshops and consultations with experts in the field. The program is implemented in a way that is both relevant and engaging for the participants. It includes a variety of activities, including lectures, case studies, and group exercises.

By providing a curriculum that addresses the needs of the participants, the program is able to provide a high-quality education. The program is implemented in a way that is both relevant and engaging for the participants. It includes a variety of activities, including lectures, case studies, and group exercises. The program is evaluated through a series of surveys and focus groups. The results of the evaluation are used to improve the program and make it more effective.

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100000

Each case card is printed every year of the year (see Table 1)

The first column on the card is the name of the person (see Table 1)

in the family. The next column is the date of birth of the person

in the subsequent columns are the sex, race, and religion.

The following table is the first column of the card.

There are three columns on the card: the first column is the name

of the person, the second column is the date of birth, and the third

column is the sex of the person. The first column is the name of the

person, the second column is the date of birth, and the third column

is the sex of the person. The first column is the name of the

person, the second column is the date of birth, and the third column

is the sex of the person. The first column is the name of the

100000

The second column is the date of birth of the person (see Table 1)

and the third column is the sex of the person (see Table 1)

and the fourth column is the race of the person (see Table 1)

and the fifth column is the religion of the person (see Table 1)

The total of each column is printed at the bottom of the card.

The total of the first column is the total number of persons in the

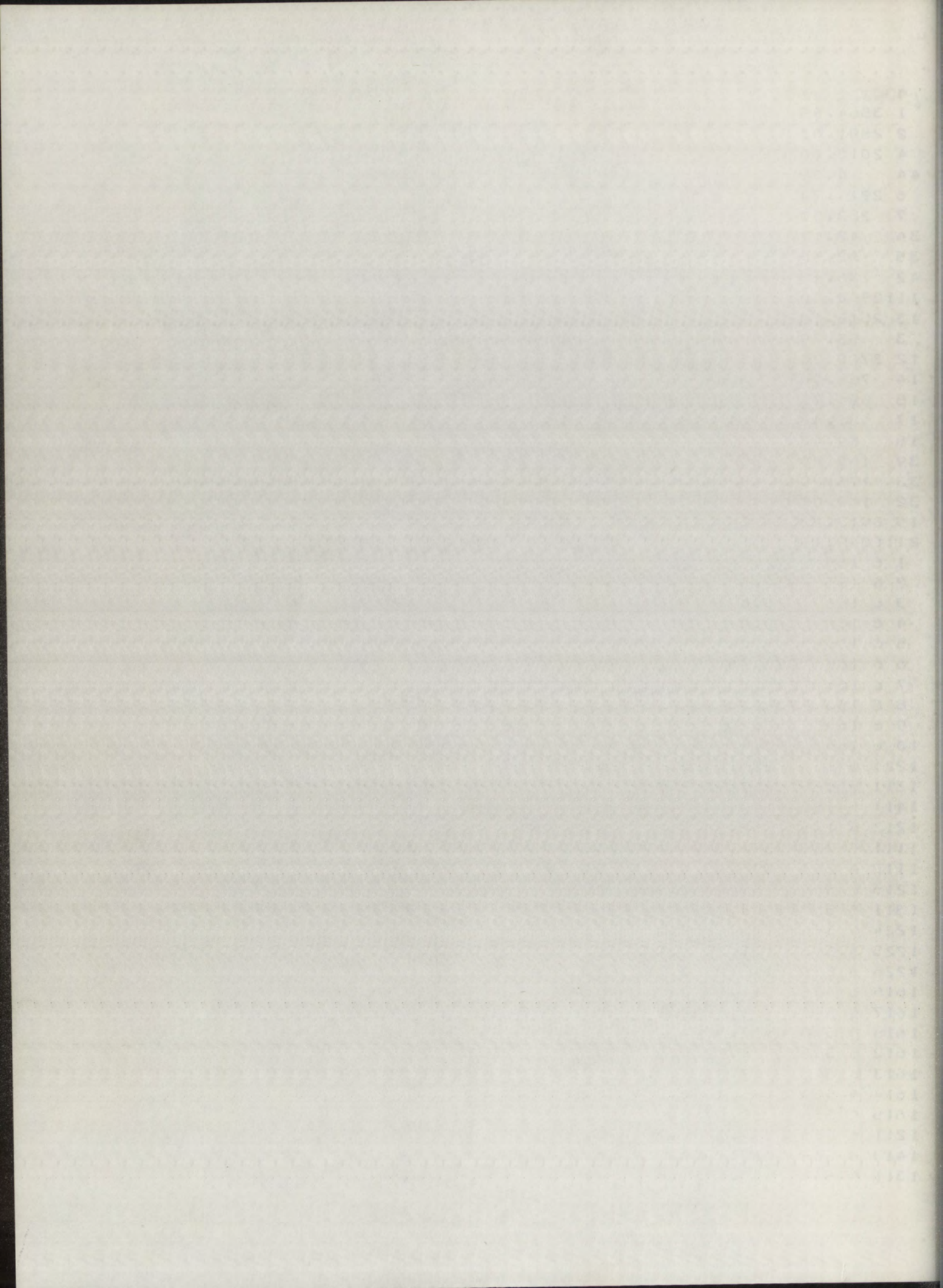
family. The total of the second column is the total number of persons

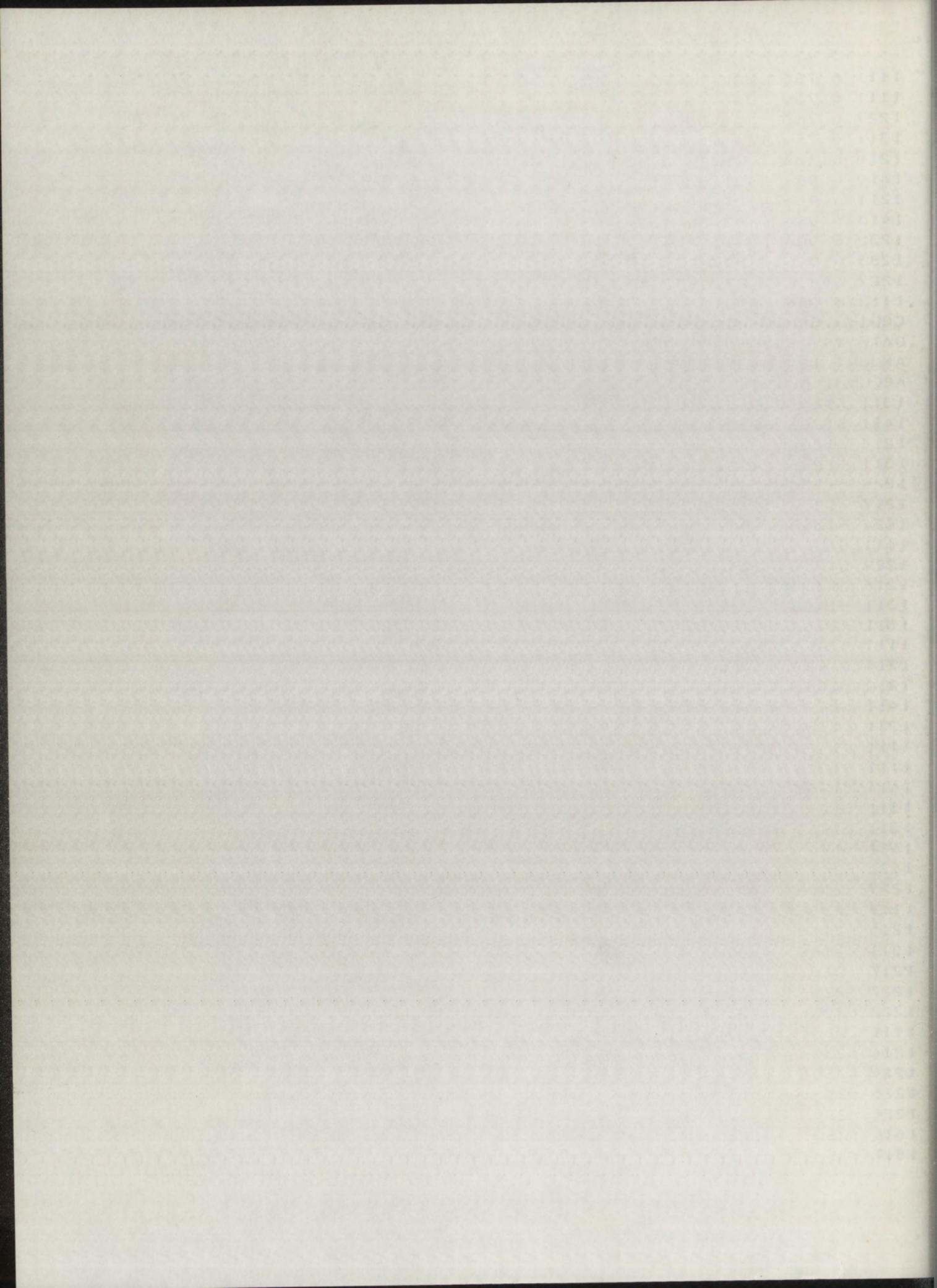
in the family who are of the same sex. The total of the third column

is the total number of persons in the family who are of the same race.

The total of the fourth column is the total number of persons in the

family who are of the same religion. The total of the fifth column





ACCOUNTING STATEMENT

ACCOUNT	DEBIT	CREDIT
CASH		
ACCOUNTS RECEIVABLE		
INVENTORY		
FIXED ASSETS		
ACCUMULATED DEPRECIATION		
LIABILITIES		
EQUITY		
TOTAL		

GENERAL LEDGER

Figure 2

The figure shows the results of the analysis of variance for the dependent variable of \log_{10} (number of bacteria per ml) in the water samples. The data are presented in Table 1. The results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

Figure 2 illustrates the results of the analysis of variance for the dependent variable of \log_{10} (number of bacteria per ml) in the water samples. The data are presented in Table 1. The results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

Figure 3

The figure shows the results of the analysis of variance for the dependent variable of \log_{10} (number of bacteria per ml) in the water samples. The data are presented in Table 1. The results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

Figure 3 illustrates the results of the analysis of variance for the dependent variable of \log_{10} (number of bacteria per ml) in the water samples. The data are presented in Table 1. The results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

In the case of the dependent variable, the results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

It is concluded that the results of the analysis of variance show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

In the entire study, the results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

Figure 4 illustrates the results of the analysis of variance for the dependent variable of \log_{10} (number of bacteria per ml) in the water samples. The data are presented in Table 1. The results show that there is a significant difference between the two groups of samples, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

Individual differences in the water samples are also significant, $F(1, 10) = 10.0$, $p < 0.01$. The mean number of bacteria per ml in the water samples is significantly higher in the control group than in the treated group.

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[The following text is extremely faint and illegible due to the quality of the scan. It appears to be a list of entries or a detailed index, possibly containing names, dates, and titles.]

ACCOUNTING PARTNERSHIP BOOK

FOR THE STATE OF

THE PARTNERSHIP OF

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NET SALES

COST OF GOODS SOLD

LESS SALES RETURNS AND ALLOW.

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LESS

SALES RETURNS AND ALLOW.

300.00

LESS SALES RETURNS AND ALLOW.

11221.01

LESS SALES RETURNS AND ALLOW.

107.50

LESS SALES RETURNS AND ALLOW.

11221.01

GROSS SALES

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LESS SALES RETURNS AND ALLOW.

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FIGURE 25

INCOME STATEMENT

ACCOUNT OF RECEIPTS

BALANCE SHEET

1880

ASSETS

CURRENT ASSETS

CASH

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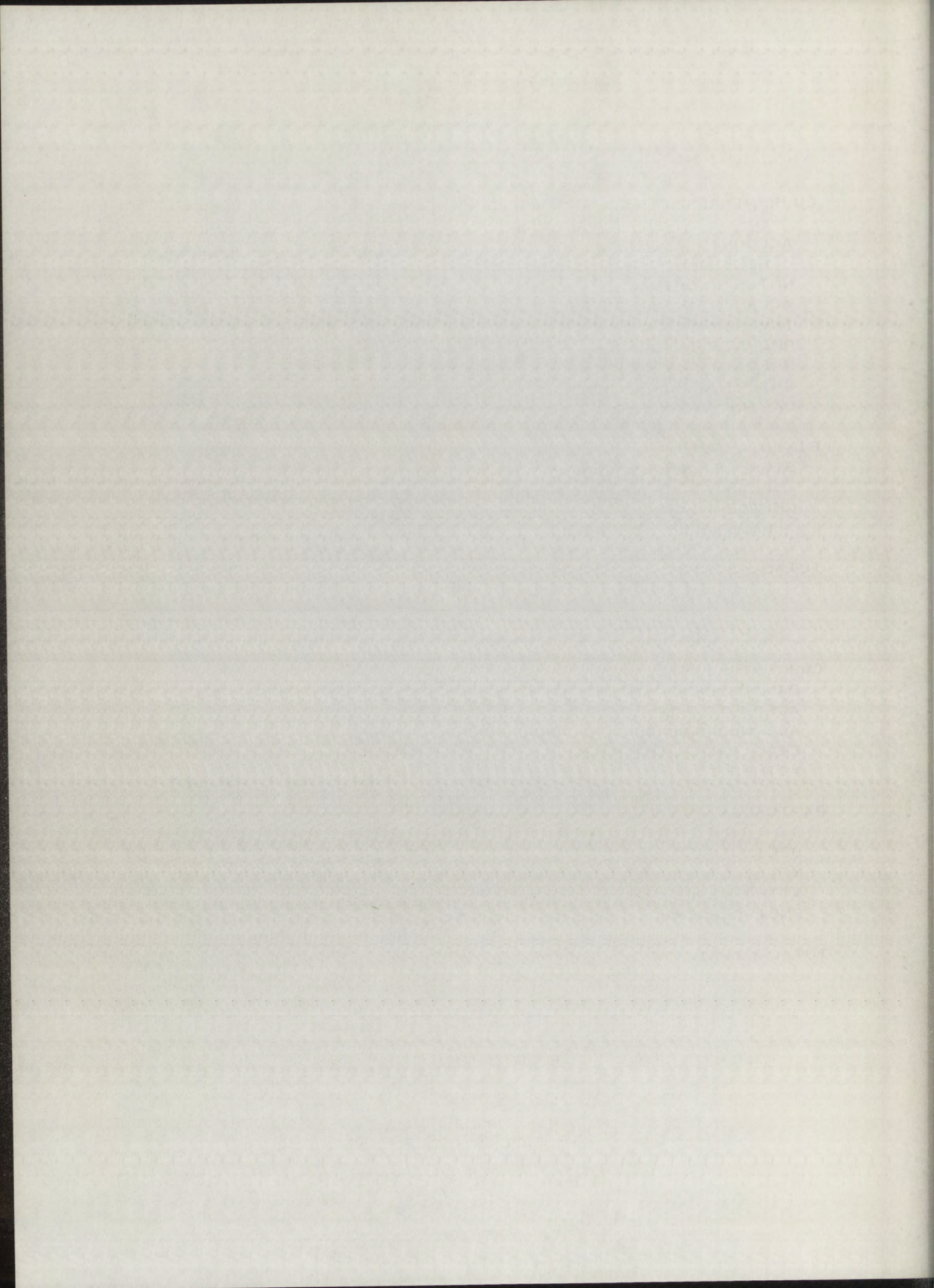
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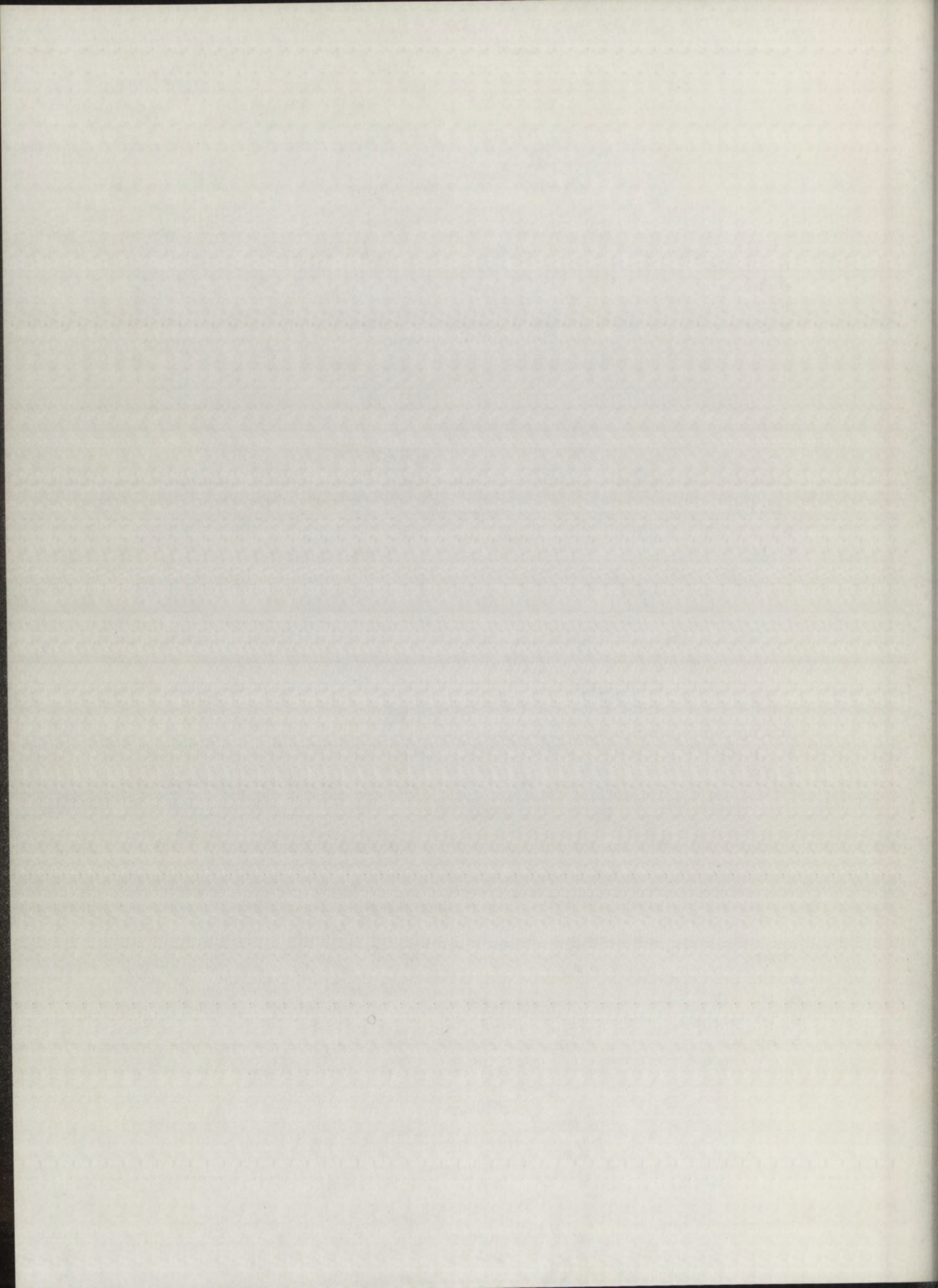
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BALANCE SHEET





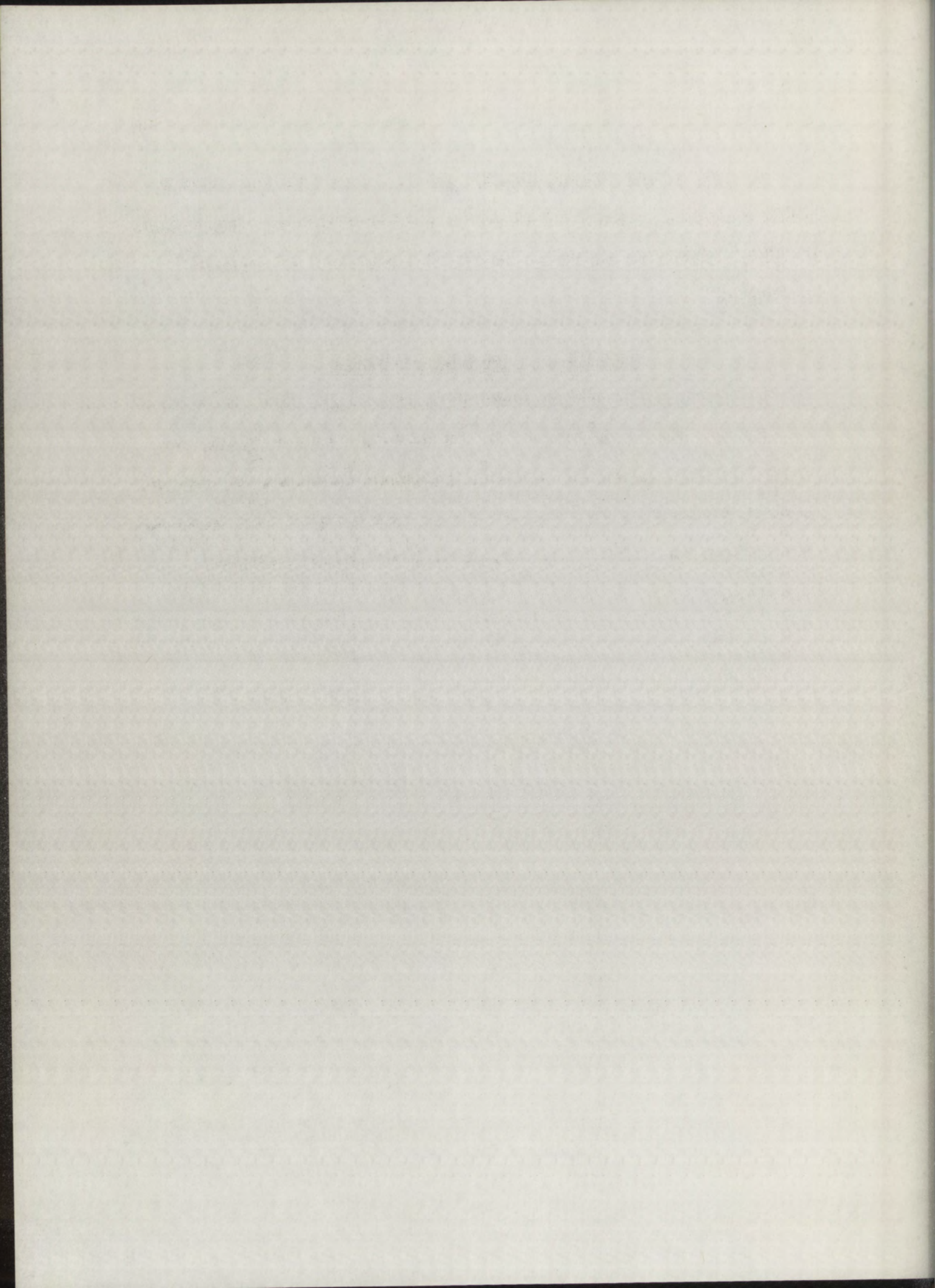
STATEMENT OF ACCOUNT

4-20-00

DATE	DEBITS	CREDITS	BALANCE
4-1-00	0.00	0.00	0.00
4-15-00	11.00		11.00
4-30-00	23.00		34.00
5-15-00		25.00	9.00
5-31-00		16.00	25.00
6-15-00		30.00	55.00
6-30-00		10.00	65.00

4-20-00

DATE	DEBITS	CREDITS	BALANCE
4-1-00	0.00	0.00	0.00
4-15-00	11.00		11.00
4-30-00	23.00		34.00
5-15-00		25.00	9.00
5-31-00		16.00	25.00
6-15-00		30.00	55.00
6-30-00		10.00	65.00



The date of each transaction is indicated in the right hand
column. The amount of each transaction is indicated in the
left hand column. The balance is indicated in the right hand
column.

Statement of Income

The income of the business is shown in the right hand
column. The expenses are shown in the left hand column.
The net income is shown in the right hand column.
The balance is shown in the right hand column.

FIGURE 30

REMARKS ON ACCOUNTS RECEIVABLE

CONCLUSION

The results of the present study indicate that the accounting system used in this study was not the best system of many accounting systems that are available to accountants. In fact, the results show that the accounting activities of accountants using the system were not as accurate as those of accountants using the system of data input (reference study) that was discussed in Chapter III. It is reasonable to conclude that the computerized accounting system developed in this study may be used for future research with experience in accounting systems.

It is clear that the accounting system of the organization operated might be, as well as other organizations, a system that is added to the end of the main line and may be a system for processing the data. The data may be used for identification of the system. The results of the study may be used to the system to be developed.

In the event of a computerized accounting system, the facilities were added, the results were better than those of the traditional system. The results of the study may be used to the system to be developed. The results of the study may be used to the system to be developed. The results of the study may be used to the system to be developed. The results of the study may be used to the system to be developed.

would allow an amount which is greater than the amount of the
 at the end of the period of the lease. The rate of interest is
 rate of interest. The rate of interest is the rate of interest
 for the next period. The rate of interest is the rate of interest
 which is the rate of interest. The rate of interest is the rate of interest
 also be written as follows: $r = \frac{1}{n} \ln \left(\frac{1 + r}{1 - r} \right)$
 for each period.

To express the rate of interest in terms of the rate of interest
 each account number. The rate of interest is the rate of interest
 distributed to the account number. The rate of interest is the rate of interest
 rate of interest in the present value of the account number.
 In order to find the rate of interest, the rate of interest is
 associated with the rate of interest. The rate of interest is the rate of interest
 which has been found.
 The present value of the account number is the rate of interest
 variable for the rate of interest. The rate of interest is the rate of interest
 and of the rate of interest. The rate of interest is the rate of interest
 variable, and the rate of interest is the rate of interest.
 model could be written as follows: $r = \frac{1}{n} \ln \left(\frac{1 + r}{1 - r} \right)$
 partner who has a rate of interest in the rate of interest.

A rate of interest is the rate of interest. The rate of interest is the rate of interest
 which might also be written as follows: $r = \frac{1}{n} \ln \left(\frac{1 + r}{1 - r} \right)$
 the present value of the account number. The rate of interest is the rate of interest

section.

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