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AEC RESEARCH AND DEVELOPMENT REPORT

A COMPUTER PROGRAM FOR CIRCULATION OF LIBRARY JOURNALS

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Savannah River Laboratory

Aiken, South Carolina

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**A COMPUTER PROGRAM FOR CIRCULATION
OF LIBRARY JOURNALS**

by

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and

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Applied Mathematics Division

June 1965

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SAVANNAH RIVER LABORATORY
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ABSTRACT

A computer program, JURN, has been written in FORTRAN II which automates the repetitive paperwork needed to circulate technical journals. The program reduces to a minimum the time and effort required to prepare and maintain current records.

The program provides printed distribution slips for each circulating journal, notification of reorder dates, listings of circulating and reference journals, and complete listings of library holdings.

A maximum of 1000 people and 750 separate journals (titles) can be accommodated by this program. Up to 50 copies of each journal may be circulated to a maximum of 16 people per copy.

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A COMPUTER PROGRAM FOR CIRCULATION OF LIBRARY JOURNALS

INTRODUCTION

The library of the Savannah River Laboratory currently receives and circulates ~500 periodicals to ~600 Plant and Laboratory personnel. It was desirable to develop a computer program that could perform much of the clerical work. The following tasks that were performed by the library staff are amenable to automation: (1) maintenance of an up-to-date list of available periodicals and the circulation list for each periodical, (2) printing of circulation slips, and (3) notification of renewal dates.

STRUCTURE OF THE PROGRAM

The program includes a main program and eight subroutines (Figure 1). Five of the subroutines that deal directly with the output are easily understood and do not require detailed explanation.

The input is arranged in two blocks: (1) the people who receive the journals periodically - name, payroll number, and location; (2) the journals - titles, general information, and distribution lists composed of the payroll number of each person to whom this periodical is circulated.

The most important functions deal with updating the input tape and converting the input to a form more easily used for the library tape. These operations are performed by the three subroutines described below.

The first, subroutine CHANGE (Figure 2), updates the existing library tape. The procedure accommodates changes in (1) the list of people who receive journals, (2) journal titles, (3) general information, and (4) distribution lists. A new input tape is generated by combining the designated changes and the old tape.

The new input tape is the basis for the library tape. Two subroutines, TAPMAK (Figure 3) and PERSTP (Figure 4), are required to generate four blocks of information on the library tape. The first block on the tape is a list of each person's name. The second block is a group of X records, where X is the total number of journals. Each record is associated with one journal and consists of the title, general information, and distribution lists for that journal. The third block is an alphabetic list of the name of each journal.

The fourth block of information is developed by the PERSTP subroutine. This subroutine rearranges the above three blocks of information to form a block of Y records, where Y is the number of people who receive these journals. Each record represents one person and contains the person's name and the index number of each journal that he receives.

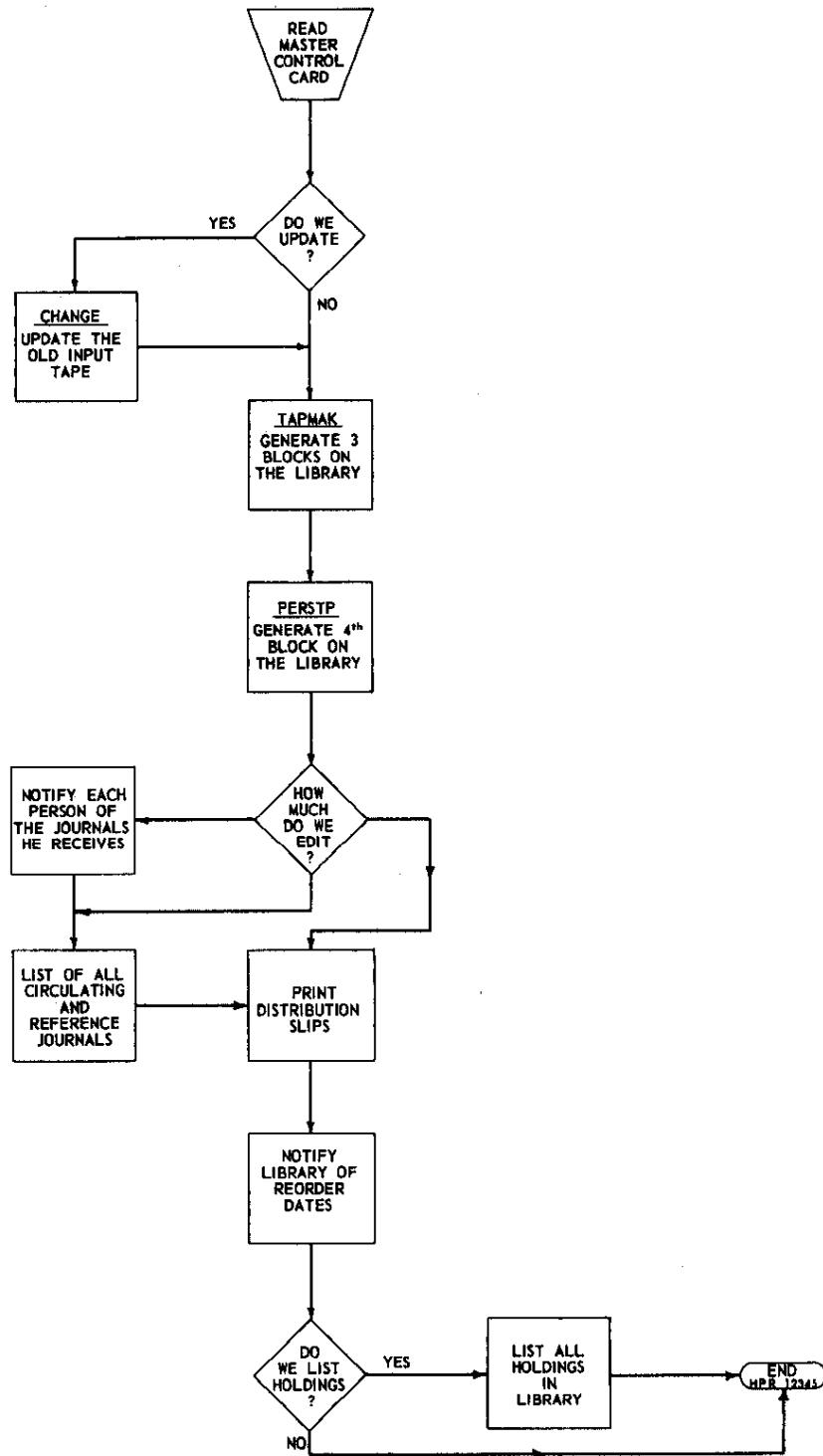
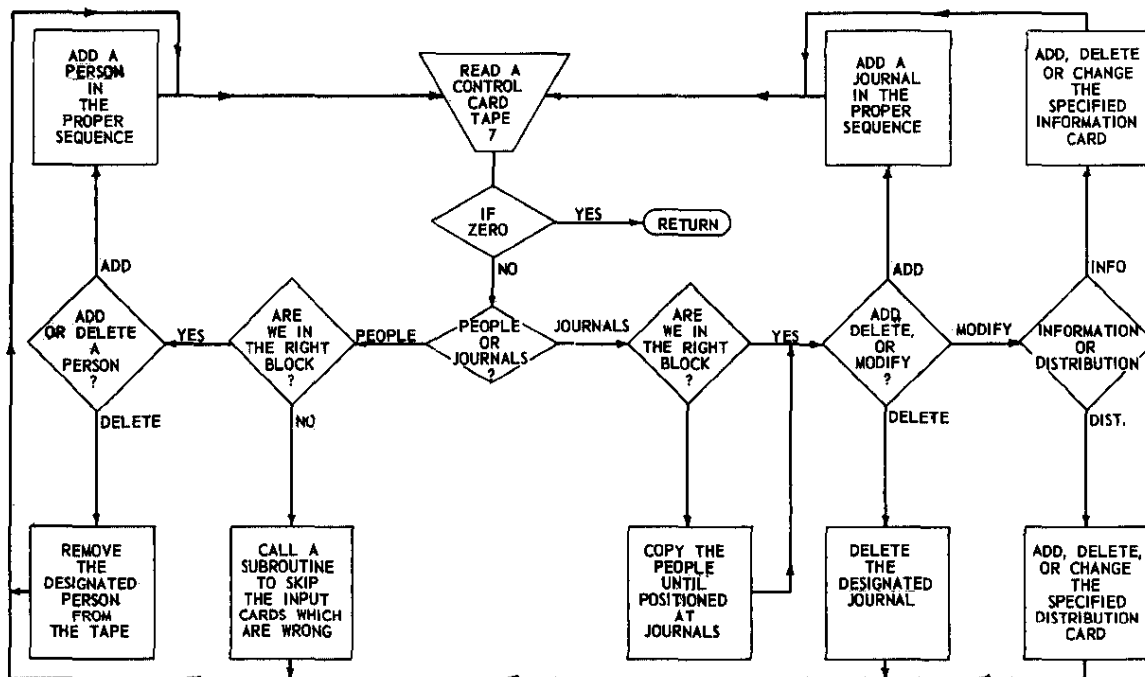


FIG. 1 FLOWSHEET FOR THE JURN PROGRAM



- *NOTES FOR MODIFICATIONS*
- The program will:
- | | | |
|--|--|--|
| 1. Find the specified journal. | 5. Read over an item, correct, and copy the corrected item for a change. | 8. Copy to end of journal. |
| 2. Find the specified card. | 6. Read next control card. | 9. Allow journals to be added at end of tape. |
| 3. Insert an addition at the proper place. | 7. Make subsequent changes to the same journal. | 10. Copy the master tape if the changes terminate before the master tape ends. |
| 4. Read over an item without copying for a deletion. | | |

FIG. 2 FLOWSHEET FOR SUBROUTINE CHANGE

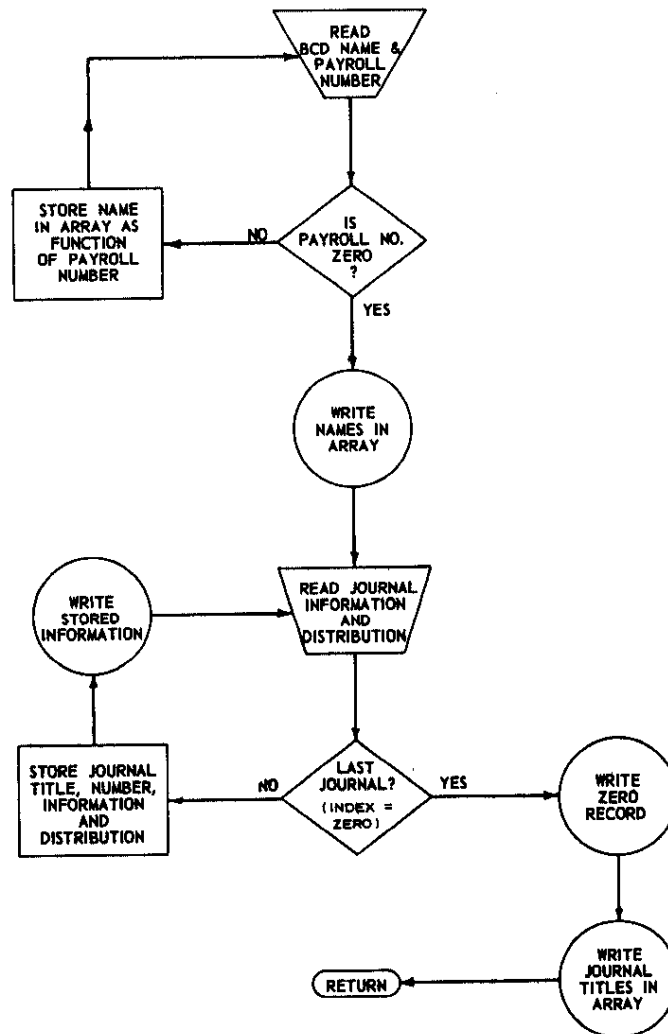


FIG. 3 FLOWSHEET FOR SUBROUTINE TAPMAK

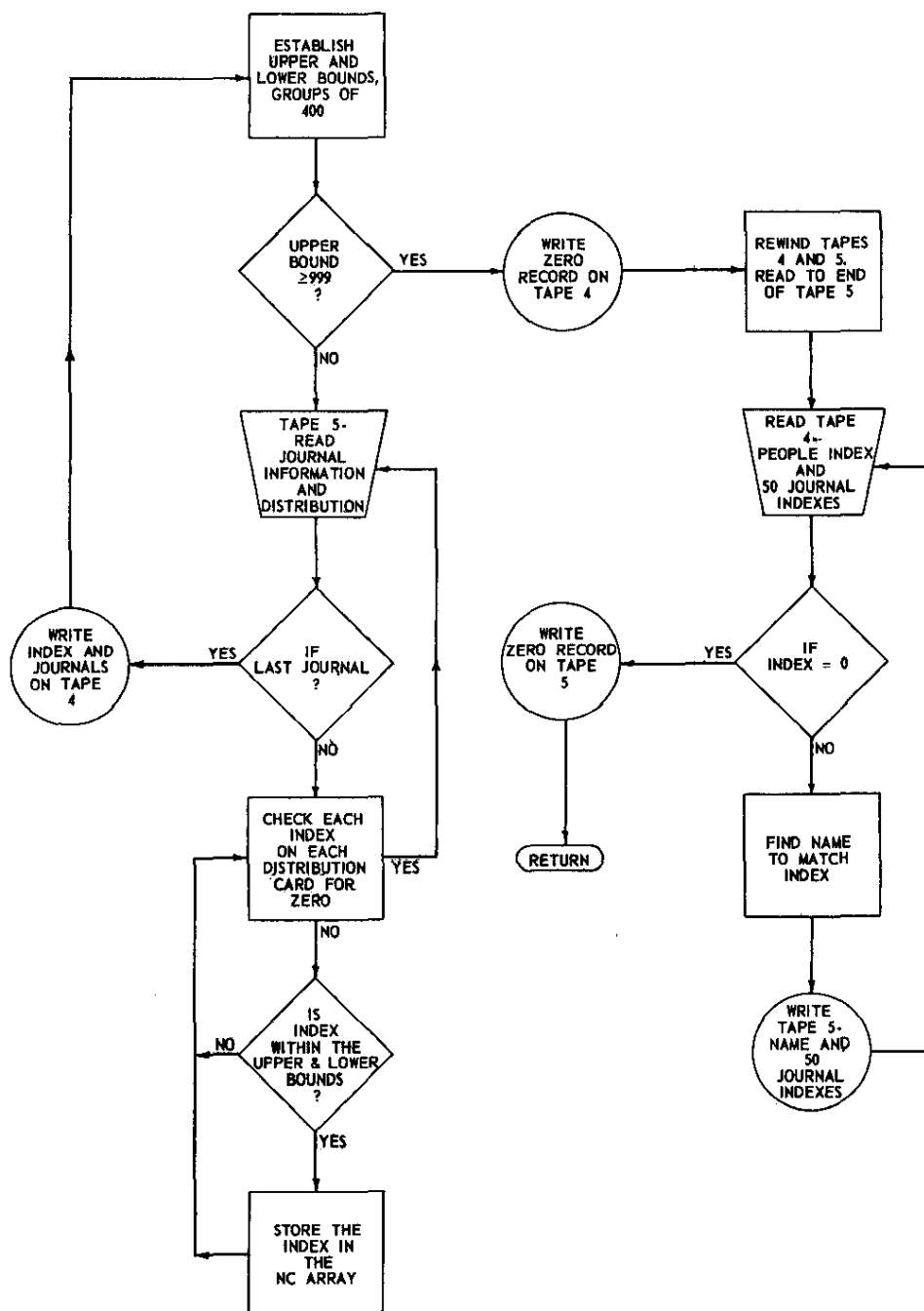


FIG. 4 FLOWSHEET FOR SUBROUTINE PERSTP

CAPABILITIES OF THE PROGRAM

There are several limiting factors in this program. The maximum number of people who can be accommodated is 999. The index number for each person is his payroll number. Each name and location is allowed 18 alphanumeric characters which require 3 storages in computer memory. The program can accommodate 750 periodicals. The index number for each journal is unique and random, but cannot exceed the number 750. The name of the journal is allowed 24 alphanumeric characters which require 4 storages in computer memory.

There are a maximum of 8 information cards for each journal. Each distribution card represents one copy of that journal. Each copy can be circulated to a maximum of 16 people. There can be up to 30 regular distribution cards and up to 20 departmental distribution cards for each journal.

On the sample problem, execution time was 35 minutes on a 32K IBM 704 with model 727-III tape units. The problem consisted of (1) making 15-20 changes to an input tape containing 580 people and 130 journals, and (2) obtaining all possible output from the program. Due to the necessary manipulation of tapes, the execution time will increase as the tapes get longer.

The estimated maximum run time for 999 people and 750 journals may be approximately 2 hours.

INPUT

Original Input

There are two types of cards for the original input tape: the "journal cards" and the "people cards".

For each periodical there are 4 categories of journal cards designated as (1) "periodical card", (2) "direct order card", (3) "information cards", and (4) "distribution cards".

The "people cards" contain in

Columns	1-4	Payroll number
	5-10	Blank
	11-24	Name of person
	25-28	Location

EXAMPLE: "People Card" (1 per person)

[illegible]

The "periodical card" contains in

Columns		
1-4	Index number for this journal	
5	1 for last card for this journal block - zero otherwise	
6-29	Name of periodical	
30	Frequency of publication: W for weekly, B for biweekly, M for monthly, 2 for bimonthly, Q for quarterly, I for irregularly	
31-34	Blank	
35-37	Number of copies ordered	
38	1 for holdings only - zero otherwise	
39	1 for reference room only - zero otherwise	
40-41	Month ordered	
42	1 if ordered through a vendor - zero if ordered directly from the publisher	
43-72	Name of distributor for direct order	

EXAMPLE: "Periodical Card" (1 per journal)

[illegible]

The "direct order card" contains in

Columns	1-4	Index number for this journal
	5	1 for last card for this journal block - zero otherwise
	6-35	Street address (for distributor)
	36-65	City and state

EXAMPLE: "Direct Order Card" (1 per journal if column 42 in periodical card is zero or blank. If column 42 = 1, this card is not necessary.)

5678	0000	ILLINOIS AVENUE	NEW YORK 17, NEW YORK
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99

The "information cards" contain in

Columns	1-4	Index number for this journal
	5	1 for last card for this journal block - zero otherwise
	6-71	Alphabetic information

EXAMPLE: "Information Card" (6 per journal. The first should contain the full name of the periodical.)

5678 JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

The "distribution cards" contain in

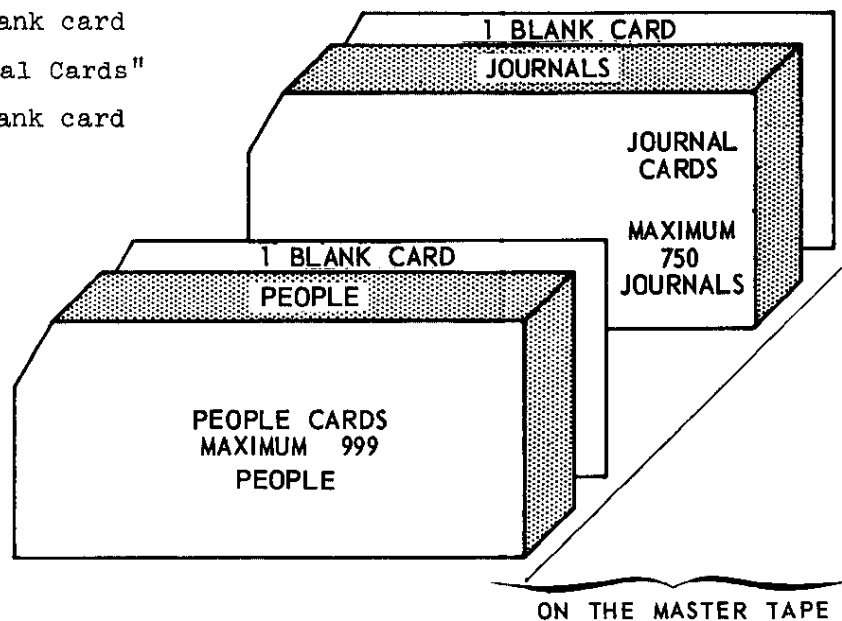
Columns	1-4	Index number for this journal
	5	1 for last card for this journal block - zero otherwise
	6-7	Blank
	8	1 for departmental copy - zero otherwise
	9-72	16 four-digit numbers corresponding to distribution list

EXAMPLE: "Distribution Cards"

[illegible]

The cards are arranged for the master tape as follows:

1. "People Cards"
2. One blank card
3. "Journal Cards"
4. One blank card



One master control card should be the first card of input immediately followed by the changes. If no changes are to be made, this will be the only input card. The control card should contain in

[illegible]

1. Add a name to the circulation list (alphabetical order).
2. Delete a name from the circulation list.
3. Change a name, number, or location for someone already on the circulation list.
4. Add a journal (alphabetical order).
5. Delete a journal.

6. Change a periodical card, a direct order card, or any of the 6 information cards.
7. Add an information card or a distribution card.
8. Delete an information or a distribution card.
9. Change a distribution card.

Each of the nine categories (Example) requires one control card. "Delete" processes (categories 2, 5, 8) require the control card only. Change processes (categories 6, 9) require the control card plus the corrected card for replacement. The procedure for adding people, information cards, or distribution cards (categories 1, 7) control card plus the addition card. The changing of a name, location, or number for a person (category 3) requires two steps: (1) add the corrected card, (one control card plus the addition card); and (2) delete the old card (one control card only).

The addition of a journal (category 4) requires a control card plus the block of "journal cards" which belongs to that periodical.

EXAMPLE

The nine possible control cards are shown in the following format.

A	B	C	D	E
0	0	0	0	0
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3

where: A = 1 for updating people
2 for updating journals

B = Index of object to be updated (person or journal index)

C = Index of operations to be performed

01 - Insert a person

02 - Delete a person

03 - Insert a journal

04 - Delete a journal

05 - Change a "journal card" or add, delete, or change a distribution card

D = Number of card which follows this control card (use D for changes only)

001 - Periodical card

002 - Direct order card

003-008 - Information card

901-950 - Distribution card

E = Case I - for additions of people or journal, E = index of the person or journal this addition should follow

Case II - for change of any "journal" card, E = 0000

Case III - for addition of a distribution card or an information card, E = 0001

Case IV - for deletion of a distribution card or an information card, E = 0002

The nine control cards are prepared according to the instructions on the preceding page.

1. Add a name to circulation list (2 cards)

[illegible]

Control card

9093	SMITH,JD	123R
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8

Addition card

2. Delete a name from circulation list (1 card)

1 77302

A	B	C	D	E
01000000	00000000	00000000	00000000	00000000
12345678	91011121314	15161718192021	22232425262728	29303132333435
363738394041	42434445464748	49505152535455	56575859606162	63646566676869
707172737475	7677787980	1111111111111111	1111111111111111	1111111111111111
22222222	22222222	22222222	22222222	22222222
33333333	33333333	33333333	33333333	33333333

Control card

[illegible][illegible]

Corrected card

[illegible]

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- [illegible]

NOTE: See the list for D for proper numbers to use.

7. Add a distribution or information card (2 cards)

The figure contains two histograms. The left histogram, titled 'Distribution', shows a distribution of values across a range of 0 to 255. The x-axis is labeled 'A B C D * E' and the y-axis is labeled '1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22'. The distribution is relatively uniform, with values ranging from 0 to 22. The right histogram, titled 'Information', shows a distribution of values across a range of 0 to 255. The x-axis is labeled 'A B C D E' and the y-axis is labeled '1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57'. The distribution is more concentrated, with values ranging from 0 to 57.

* NOTE: D must be 901 or greater to indicate that this is a distribution card - the number itself is of no interest and will not conflict with existing cards.

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8. Delete a distribution or information card (1 card only)

Distribution

Category	Value
0	0
1	0
2	10
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
11	10
12	10
13	10
14	10
15	10
16	10
17	10
18	10
19	10
20	10
21	10
22	10
23	10
24	10
25	10
26	10
27	10
28	10
29	10
30	10
31	10

Information

Category	Value
0	0
1	0
2	10
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
11	10
12	10
13	10
14	10
15	10
16	10
17	10
18	10
19	10
20	10
21	10
22	10
23	10
24	10
25	10
26	10
27	10
28	10
29	10
30	10
31	10

Control card

NOTE: The last distribution card must never be deleted. Only changes should be made to the last card.

9. Change a distribution card (2 cards)

[illegible]

Control card

The corrected distribution card should follow this control card.

The following rules should be used in setting up the changes.

- (1) The master control card must precede the changes.
- (2) Change, add, or delete the circulation list first and in the same sequence as the tape.
- (3) Change, add, or delete "journal cards" in the same sequence as they appear on the tape.
- (4) Within each journal block, make changes, additions, or deletions as they appear within the block. The prescribed order is: periodical card, direct order card, information cards, and distribution cards.
- (5) The last card of the "change" input should be blank.

SAMPLE OUTPUT

The distribution lists and the reorder lists are standard for each run. A distribution list is printed X times for each copy of each journal, where X is related to the frequency of publication. If the journal is published weekly, 5 copies of each distribution card are printed for each month's run; if biweekly, 2 copies; if monthly, bimonthly, quarterly or irregularly, 1 copy.

The reorder list contains the names and addresses of the journals which should be reordered two months from each run.

The complete lists of circulating and reference room copies and library holdings are available if indicated on the master control card for each run. The list of journals circulated to each person is also optional.

Sample Output from the Program

THE FOLLOWING JOURNALS ARE CIRCULATED AT PRESENT

INSTRUMENTATION	J LESS-COMMON METALS
INSTR + CONTROL SYSTEMS	JUST BETWEEN OFFICE GIRL
INSULATION	KIPLINGER WASH LETTER
IAEA BULLETIN	KOLLOID ZEITECHRIFT
IBM JOURNAL OF RES + DEV	LABOR SERVICES
IBM SYSTEMS JOURNAL	LABOR STATISTICS
INTL CHEMICAL ENG	LABORATORY PRACTICE
INTL J AIR + WATER POLLU	L C CLASS, ADD + CHANGES
INTL J APPL RAD + ISOTOP	LIBRARY JOURNAL
INTL J POWDER METALLURGY	LIBRARY LITERATURE
INTL REVUE GESAMTEN HYDR	LIFE
INTL SCI + TECHNOLOGY	LIGHT METAL AGE
INTERSTATE COM COMMI REG	LIGHT METALS
IRON AGE	LIMNOLOGY + OCEANOGRAPHY
IRON + STEEL INSTITUTE J	LOCAL CLIMATOLOGICAL D
ISOT + RADIATION TECHN	LOCOMOTIVE
JT RES + DEV PROG QT DIG	LUBRICATION ENGINEERING
J AGRI + FOOD CHEMISTRY	MACHINE DESIGN
J ANAL CHEM OF THE USSR	MAGAZINE OF STANDARDS
J ANIMAL ECOLOGY	MAINTENANCE
J APPLIED MECHANICS	MANAGEMENT INFORMATION
J APPLIED PHYSICS	MANAGEMENT REVIEWS
J BASIC ENGINEERING	MANAGEMENT SCIENCE
J CHEMICAL + ENGR DATA	MANAGERS LETTER
J CHEMICAL DOCUMENTATION	MANUAL CLASSIF PATENTS
J CHEMICAL PHYSICS	MARINE BIOL ASSOC, UK, J
J CHROMATOGRAPHY	MATERIAL HANDLING ENG
J CRIM LAW + CRIMN + P S	MATERIALS EVALUATION
J DAIRY SCIENCE	MATERIALS IN DESIGN ENG
J ECOLOGY	MATERIALS PROTECTION
J ELECTROANALYTICAL CHEM	MATERIALS RES + STANDARD
J ENGINEERING FOR INDUST	MATHEMATICAL REVIEWS
J ENGINEERING FOR POWER	MATHEMATICS OF COMPUT
J FLUID MECHANICS	MEASUREMENT TECHNIQUES
J GAS CHROMATOGRAPHY	MECHANICAL ENGINEERING
J HEAT TRANSFER	METAL FINISHING
J INORG + NUCLEAR CHEM	METAL PROGRESS
J MARINE RESEARCH	METAL SCI + HEAT TR MET
J MATHEMATICAL PHYSICS	METAL TREATING
J MATHEMATICS + MECHANIC	METALL
J MECH + PHYS OF SOLIDS	METALLURGIA
J METALS	METALLURGICAL REVIEWS
J MOLECULAR SPECTROSCOPY	METALLURGIE
J NUCLEAR ENERGY	METALS ENGINEERING Q
J NUCLEAR MATERIALS	METALS REVIEW
J NUCLEAR MEDICINE	METALSCOPE
J ORGANIC CHEMISTRY	MIKROCHIMICA ACTA
J PHYSICAL CHEMISTRY	MISSILES + ROCKETS
J QUANT SPECT + RAD TRAN	MODERN CASTINGS
J RES NBS SEC C ENG + IN	MODERN MATERIALS HANDL
J SCIENTIFIC INSTRUMENTS	MODERN METALS
J SOUND + VIBRATION	MODERN PLASTICS
J AM SOC SAFETY ENGINEER	NUCLEAR INDUSTRY

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- 3 CHEM ENG PROGRESS
- 4 ENGINEERING RESEARCH REV
- 5 IND + ENG CHEMISTRY
- 6 IND + ENG CHEM FUNDAMENT
- 7 IND + ENG CHEM, PD + D
- 8 IND + ENG CHEM, PR + D

Distribution Lists

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6	MEYER,LH	773A
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8	PORTER,JA	773A
9	HYDER,ML	773A
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12	BAILEY,CE	773A
13	RANDALL,D	773A
14	CORYMAN,WR	773A
15	DUKES,EK	773A
16	HJLCOMB,HP	773A
17	TIS	773A

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7	FERNANDEZ,LP	773A
8	HENNELLY,EJ	773A
9	CARLSON,AB	773A
10	NEEL,RB	773A
11	CROLEY,JJ	735A
12	WATTERS,FS	221F
13	DUANE,JP	772F
14	KOTTI,KS	234H
15	CAVERLY,MR	232H
16	GILMER,GE	105P
17	TIS	773A

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2	NICHOLS,GS	773A
3	JONES,WS	773A
4	THOMPSON,MC	773A
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12	WATTERS,FS	221F
13	DUANE,JP	772F
14	KOTTI,KS	234H
15	CAVERLY,MR	232H
16	GILMER,GE	105P
17	TIS	773A

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HANDLING PROCEDURES AND OPERATING INSTRUCTIONS

Handling procedures are simple and straightforward. The library staff keeps a card file which is set up like the master tape. It is updated periodically and it is from this file that the master tape is updated.

The master tape is made only once (CTX, off-line). It is updated each month if necessary, and printed off-line. The output is printed off-line.

The program is kept in the machine room. The master control card and the change cards are submitted with an instruction card.

Operating instructions are as follows: The master tape from the previous run is mounted on tape unit 6. All input is put on tape 7. If changes are made, the new master tape is generated on tape 8. The old master tape on unit 6 is marked and retained; the new master tape is labeled, dated, and stored.

Output is on unit 10. Units 4 and 5 are scratch tapes. Instructions from the printer are pertinent. An HPR 12345 on the console indicates the end of the run. The output tape is printed off-line, 8 lines per inch, on unlined paper. If the master tape was updated, the new master tape is printed off-line, without carriage control before it is stored.

FORTRAN Listing of the Program

```

C      03-11-65   JOURNAL PROGRAM MAIN PROGRAM   SKELTON   8270
C
C      DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
C      1,KPN(1000)
C      COMMON C,BLANK,  N,A,NI,IX ,KPN
C      COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
C      EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
C
C      DIMENSION D(10)
C
C      MAXPER = 999
C      NAMNO = 3
C      MAXJNL = 750
C      NAMJNL = 4
B      BLANK=606060606060
C
C      NOUT=10
C      NIN=7
1000  FORMAT( 4I2,  10A6)
C
C      KIN = NAMNO*MAXPER
C      KINN = MAXPER + 1
C      LIMM2 = MAXJNL * NAMJNL
C      LIMM = MAXJNL + 1
C
C      READ INPUT TAPE NIN, 1000,LA,NB,LC,MONTH, (D(J),J=1,10)
C      LA= 01 FOR  CHANGE CARDS TO FOLLOW.,00 OR BLANK FOR NO CHANGES.
C      NB= 00  FOR DISTRIBUTION AND REORDER LISTS ONLY.
C      VB= 01  FOR LIST OF CIRCULATING AND REFERENCE ROOM COPIES,
C      IN  ADDITION TO THE ABOVE.
C      NB= 02 FOR PEOPLE NOTIFICATION, IN ADDITION TO THE ABOVE.
C      LC= 01  IF LIST OF HOLDINGS IS DESIRED.
C      LC= 00 NO LIST NEEDED.
C      MONTH =  NUMBER OF MONTH OF THIS RUN
C      D= SIXTY ALPHABETIC LETTERS  OF INFORMATION. ( 10A6)
C
C      IF (LA) 90,90,20
C      90 PRINT 1003
1003  FORMAT (1H1,95HCHANGE SET UP ON TAPES.  DIAL OFF SCRATCH ON UNIT
18.  DIAL TAPE E-II-10 FROM UNIT 6 TO UNIT 8. ///26HPRESS START
2TO MAKE RUN.)
C      PAUSE 22022
C      GO TO 10
C
C      20 CALL CHANGE
C      10 CALL TAPMAK
C      CALL PERSTP
C
C      NB=NB+1
C      GO TO (50,40,30),NB
C
C      30 CALL BLURB 2

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C
40 CALL SUBLST
C
50 CALL PRLIST
   CALL SBORDR
C
   IF (LC)60,60,70
70 CALL BLURB1
C
60 WRITE OUTPUT TAPE NDUT, 1001,(D(J),J=1,10)
   PRINT 1001,(D(J),J=1,10)
1001 FORMAT( 1H1 ,61H THIS TIS RUN OF THE JOURNAL LIBRARY PROGRAM IS
1COMPLETED. // 10A6/// 5X,29H DISMOUNT TAPE 10, PULL RING //
2          10X, 17H PRINT OFF-LINE /
3          10X, 17H 8 LINES PER INCH /
4          10X, 17H CARRIAGE TAPE 42 /
5          10X, 17H FORTRAN CHAIN //
6 10X, 17H UNLINED PAPER ,//)
C
   PRINT 1002
1002 FORMAT(1H0, 38HSAVE TAPE 8. DISMOUNT, PULL RING, LABEL AS
1FOLLOWS// 26X, 15HJURN INPUT TAPE/
2          26X, 15HDATE /
2          26X, 15HE-II-10 /15X, 21H STORE AS INSTRUCTED.)
C
   IF(LA) 100,100,101
C
101 PRINT 1005
   PRINT 1004
1004 FORMAT(1H0, 39HSAVE TAPE 6. DISMOUNT, LABEL AS FOLLOWS//
1 26X, 15HOLD JURN INPUT /
2 26X, 15HDATE /
3 26X, 15HE-II-9 /
4 15X, 20HSTORE AS INSTRUCTED.)
C
1005 FORMAT(1H0, 50HPRINT TAPE 8 OFF-LINE. BE SURE TO PRINT COLUMN 1.)
C
100 PAUSE 12345
   END(2,0,0,0,0)

```

```

C      04-12-65      CHANGE      8270      SKELTON      JURN  UPDATE
C      SUBROUTINE CHANGE
C
C      DIMENSION      A(95), N(500), C(20800), NA(95), NI(16), IX(400)
C      1, NC(20800), KPN(1000)
C      COMMON C, BLANK,N,A,NI,IX,KPN
C      COMMON MONTH, NAMNO, MAXPER, MAXJNL, NAMJNL, KIN, LIMM, LIMM2,
C      IKINN
C      EQUIVALENCE ( NC(1), C(1)),(BLANK, BLANK), (N(1), N(1)), (NA(1),
C      1A(1))
C
C      CONTROL CARD FOR EACH CHANGE MUST CONTAIN THE FOLLOWING.
C      COL. 1      NA=1 FOR .PEOPLE RECORDS.
C      2 FOR JOURNAL RECORDS.
C      COL.2-5 NB= INDEX OF THE OBJECT TO BE CHANGED. I.E., PEOPLE
C      OR JOURNAL INDEX.
C      COL. 6-7 NC= 01 ADD A PERSON (*)
C      = 02 DELETE A PERSON.
C      = 03 ADD A JOURNAL (*)
C      = 04 DELETE A JOURNAL.
C      = 05 CHANGE AN INFO OR DISTRIBUTION CARD.(**)
C      COL.8-10 NUMBER OF JOURNAL CARD WHICH FOLLOWS- USE FOR
C      CHANGES ONLY.
C      ND= 001 PERIODICAL CARD.
C      = 002 DIRECT ORDER CARD-
C      = 003 FULL NAME CARD-
C      = 004 - 008 INFORMATION CARD.
C      = 901 - 950 DISTRIBUTION CARD. (**)
C      * COL.11-14 CASE I. IF NC= 1 OR NC= 3,
C      NE= INDEX OF THE RECORD WHICH THE INSERTION
C      SHOULD FOLLOW,,, FOLLOW. (KEEPS ALPHABETICAL
C      ** CASE II. NC= 5 AND ND=A NINE HUNDRED NUMBER.
C      NE= 0000 CHANGE THE INDICATED DISTRIBUTION CARD.
C      NE= 0001 ADD THIS DISTRIBUTION CARD AT END, BUT
C      BEFORE THE LAST CARD FOR THIS JOURNAL.
C      NE= 0002 DELETE THE SPECIFIED DISTRIBUTION CARD.
C
C      MAXIMUM NUMBER OF CHANGES PER RUN IS 500. CHANGES
C      ARE TERMINATED BY A BLANK CARD.
C
C      NEW = 8
C      NOLD = 6
C      NCHG = 7
C      NHERE = 1
C      1000 FORMAT(11, 14, 12, 13, 14)
C
C      5 IF(NEND) 505,255,505
C      255 READ INPUT TAPE NCHG, 1000, MA, NB, MC, ND, NE
C      IF MA =0, END OF CHANGES. COPY OLD TAPE TO NEW FROM THIS POINT.
C      IF (MA) 2, 1, 2
C
C      2 GO TO (3,4),MA
C
C      3 IF (NHERE-1)6,6,7
C      7 PRINT 999
C      999 FORMAT( 1H1, 83H CHANGE CARD IS OUT OF PROPER SEQUENCE. HIT START
C      1TO IGNORE THIS CARD AND CONTINUE.//)
C      PAUSE 22022

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```

C      CALL SKIP (MA, NB, MC, ND, NE)
      GO TO 5
C
C
C
C      ADD A PERSON-
      6 GO TO (20,30,40,50,60), MC
      20 DO 11 K=1,1000
        READ INPUT TAPE NOLD, 1001, NUM, B, X, Y, Z
1001  FORMAT( 14, F6.1, 3A6)
        WRITE OUTPUT TAPE NEW,1001, NUM, B, X, Y, Z
        IF (NUM) 12, 13, 12
        12 IF (NUM - NE) 11, 14, 11
        11 CONTINUE
C
      14 READ INPUT TAPE NCHG, 1001, NUM, B, X, Y, Z
        WRITE OUTPUT TAPE NEW, 1001, NUM, B, X, Y, Z
        GO TO 5
C
C      DELETE A PERSON.
      30 READ INPUT TAPE NOLD, 1001, NUM, B, X, Y, Z
        IF (NUM)25,13,25
        25 IF (NUM-NB)31,32,31
        31 WRITE OUTPUT TAPE NEW, 1001, NUM, B, X, Y, Z
        GO TO 30
C
      32 GO TO 5
C
C
C
      13 NHERE=2
        PRINT 997
      997 FORMAT(1H0, 90H YOU HAVE DEPLETED THE PEOPLE RECORDS. TAPE IS POSI
        ITIONED AT FIRST OF THE JOURNAL RECORDS./ 1H , 58H CHECK YOUR INPU
        2T. APPARENTLY A CARD IS OUT OF SEQUENCE.//)
        PAUSE 22002
C
C      SECTION II IS THE JOURNAL AND DISTRIBUTION INFORMATION.
C
      4 IF (NHERE -2)8, 10, 8
C
      8 READ INPUT TAPE NOLD, 1001, NUM, B, X, Y, Z
        WRITE OUTPUT TAPE NEW, 1001, NUM, B, X, Y, Z
        IF (NUM) 8, 15, 8
      15 NHERE =2
      10 GO TO (20,30,40,50,60), MC
C
C      INSERT A JOURNAL.
      40 IF(NDX-NE) 440,140,440
      440 READ INPUT TAPE NOLD, 1002,NDX, LAST,(C(J),J=1,5),(NI(J),J=2,6),
        1(C(J),J=6,10)
1002  FORMAT(14,11,4A6,A5,13,2I1,12,11,5A6)
        WRITE OUTPUT TAPE NEW,1002,NDX, LAST,(C(I),I=1,5),(NI(I),I=2,6),
        1(C(I),I=6,10)
        IF (NDX)41,151,41
      151 NP = 1
        GO TO 140

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```

115 IF (NI(6)) 107,104,107
107 NCRD=3
    GO TO 108
104 NCRD =2
108 IF (ND-901)101,99,99
    99 NDIST=ND-900
        NCNT=0
        NDE=9
        GO TO 78
101 NDE=ND-1
    NDIST=0
    IF(NCRD-NDE) 78, 78, 110
110 IF(NE-2) 112, 111, 113
113 READ INPUT TAPE NOLD,1003,NDX
    GO TO 114
    78 DO 109 I=NCRD,NDE
        IF(I-9)79,98,98
    79 READ INPUT TAPE NOLD,1003, NDX, LAST, (A(K),K=1,11)
109 WRITE OUTPUT TAPE NEW,1003,NDX, LAST, (A(K),K=1,11)
112 READ INPUT TAPE NOLD,1003, NDX
111 READ INPUT TAPE NCHG,1003, NDX, LAST, (A(K),K=1,11)
    WRITE OUTPUT TAPE NEW, 1003, NDX, LAST, (A(K), K=1,11)

```

C
C

```

114 READ INPUT TAPE NCHG,1000, MA2,NB2,MC2,ND2,NE2
    IF(MA2) 301, 1,301
301 IF(NB2-NDX)197,103,197
197 BACKSPACE NCHG
    NE = 1
    97 NCRD=ND+1
        NDE=9
        GO TO 78
    98 LOOP=3
        IF(NE-2) 92,93,92
    92 READ INPUT TAPE NOLD,1004, NDX, NO, NP, NDPT, (NI(K),K=1,16)
        NCNT=NCNT+1
219 IF(NCNT-NDIST)90,93,90
    90 WRITE OUTPUT TAPE NEW,1004,NDX,NO,NP,NDPT,(NI(K),K=1,16)
        IF(NO)5,92,5
    93 IF(NE-2) 195,195,189
195 READ INPUT TAPE NCHG,1004, NDX,NO,NP,NDPT, (NI(K),K=1,16)
    WRITE OUTPUT TAPE NEW,1004,NDX, NO, NP, NDPT, (NI(K),K=1,16)
189 READ INPUT TAPE NCHG,1000,MA2, NB2, MC2, ND2, NE2
    IF (MA2)302, 1,302
302 IF(NB2-NDX) 125,103,125

```

C
C
C

SUBSEQUENT CHANGES IN THE SAME JOURNAL GROUP.

```

103 NE = NE2+1
    ND=ND2
    MC=MC2
    GO TO (201,202,203),NE
201 GO TO (100,205,298),LOOP
205 NCRD=NDE+2
    NDIST=0
    GO TO 108
298 NDIST=ND-900
    GO TO 98

```

```

C
202 GO TO (115,206,98),LOOP
206 NCRD=NDE+2
    NDIST=0
    GO TO 108
C
203 NDIST = ND-900
    GO TO (115,206,98),LOOP
C
C
125 IF(ND) 27, 26, 27
26 READ INPUT TAPE NOLD,1004,NDX,NO,NP,NDPT,(NI(K),K=1,16)
    WRITE OUTPUT TAPE NEW,1004,NDX,NO,NP,NDPT,(NI(K),K=1,16)
    GO TO 125
C
C
27 BACKSPACE NCHG
    GO TO 5
C
1 NEND=99
    GO TO (304,305,303),LOOP
304 ND=90
    GO TO 100
305 NCRD=NDE+2
    NE = 1
    NDE = 90
    GO TO 78
303 NE = 1
    GO TO 98
C
505 IF(NDX) 501,500,501
501 NB=999
    NFIND=0
    GO TO 50
C
500 WRITE OUTPUT TAPE NEW,1002,
1      NDX, LAST, (C(K),K=1,5), (NI(K),K=2,6), (C(K),K=
16,10)
    END FILE NEW
    REWIND NOLD
    REWIND NEW
    REWIND NCHG
    RETURN
C
END(2,0,0,0,1)

```



```

C      03-09-65   SKIP A CHANGE CARD OUT OF ORDER.   SKELTON   8270
C
C      SUBROUTINE SKIP (MA,NB,MC,ND,NE)
C
C      NCHG= 6
C
C      1000 FORMAT(I4,I1)
C
C      GO TO (10, 500, 110, 500, 5), MC
C
C      10 READ INPUT TAPE NCHG,1000,I
C      GO TO 500
C
C      110 READ INPUT TAPE NCHG,1000,I,N
C      IF(N) 500,110,500
C
C      5 NE = NE + 1
C      GO TO ( 10, 10, 500), NE
C      500 RETURN
C
C      END(2,0,0,0,0)

```

```

C      3-29-65      SKELTON TAPMAK      8270      JOURNAL PROGRAM
SUBROUTINE TAPMAK
DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
1,KPN(1000)
COMMON C,BLANK, N,A,NI,IX ,KPN
COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
C      READ CARDS TO SET UP PERSON INDEX, PERIODICAL INDEX, AND TABLE OR
C      DISTRIBUTION. PERSON CARDS HAVE INDEX IN COLS 1-4, AND 18 LETTERS
C      OF NAME IN COLS 11-28. BLANK CARD TERMINATES PERSON READ
      NOUT=5
      VIN =NOUT
1 NTIN=8

C
C      READ THE INPUT FOR THE NAMES OF THE PEOPLE TO WHOM THE JOURNAL IS
C      CIRCULATED. SETS UP A LIST OF THE ALPHABETIC NAMES ACCORDING TO T
C      THE INDEX NUMBERS.
C
      DO 2 I=1,KINN
      READ INPUT TAPE NTIN,3,KPN(I),B,X,Y,Z
3 FORMAT(I4,F6.1,3A6)
      IF (KPN(I)) 2,4,5
5 NJ=3*(I-1)+1
      C(NJ)=X
      C(NJ+1)=Y
      C(NJ+2)=Z
2 CONTINUE
4 CONTINUE
      WRITE TAPE NOUT, (C(J),J=1,KIN )

C
      DO 40 I=1,LIMM2
40 C(I)=0.0

C
C      PERIODICAL CARDS MAY HAVE 8 CARDS OF ALPHA INFORMATION AND UP TO
C      50 CARDS FOR DISTRIBUTION
C      COLS 1-4 INDEX OR PERIODICAL
C          5 1 FOR LAST CARD FOR THIS PERIODICAL. 0 OTHERWISE
C          6-29 NAME OF PERIODICAL
C          30 W FOR WEEKLY,8 FOR BIWEEKLY,M FOR MONTHLY,2 FOR BIMONTHLY
C          Q FOR QUARTERLY, AND I FOR IRREGULAR
C          36-37 NUMBER OF COPIES ORDERED
C          38 1 FOR HOLDINGS ONLY--0 OTHERWISE
C          39 1 FOR REFERENCE ROOM COPY ONLY--0 OTHERWISE
C          40-41 MONTH ORDERED. 1 FOR JANUARY, ETC.
C          42 1 IF ORDERED THROUGH VENDOR. 0 OTHERWISE
C          43-72 NAME OF DISTRIBUTOR FOR DIRECT ORDER
C      NEXT CARD ONLY IF DIRECT ORDER
C          1-5 SAME AS ABOVE
C          6-35 STREET ADDRESS
C          36-65 CITY AND STATE
C      THEN 6 CARDS OF GENERAL INFORMATION
C          1-5 SAME AS ABOVE
C          6-71 ALPHABETIC INFORMATION
C      FOLLOWING CARDS FOR DISTRIBUTION OF PERIODICALS
C          1-5 SAME AS ABOVE
C          6-7 OPEN
C          8 1 IF DEPARTMENTAL COPY. 0 OTHERWISE
C          9-72 16 FOUR DIGIT NUMBERS CORRESPONDING TO DISTRIBUTION LIST
C      BLANK CARD TERMINATES READ FOR PERIODICALS

```

```

C      DO 6 I=1,LIMM
      READ INPUT TAPE NTIN,7,K,J,X,Y,Z,V,U,N1,N2,N33,N3,N4,(A(L),L=13,17
1)
7  FORMAT(14,11,4A6,A5,I3,2I1,I2,11,5A6)
      IF(K)9,8,9
9  NJ=4*(K-1)+1
      NA(1)=K
      C(NJ)=X
      C(NJ+1)=Y
      C(NJ+2)=Z
      C(NJ+3)=V

C
C      TESTING FOR THE FREQUENCY OF PUBLICATION.  WHEN TEST=U-1.0EX
C      THE 1.0EX HAS SOMETHING TO DO WITH THE INTERNAL REPRESENTATION OF
C      A FLOATING POINT NUMBER.  EXAMPLE, 1.0E-25 HAS AN INTERNAL FORM OF
C      24XXXXXXXXXXXXXXXXXX .  THEREFORE, WHEN SUBTRACTED FROM THE VALUE
C      OF U , THE ALPHABETIC CHARACTER OF THE LETTER CAN BE DETERMINED.
C
      IF(U)10,11,11
10  U=ABSF(U)
      TEST=U-1.0
      IF(TEST)12,12,13
13  A(2)=0.0
      GO TO 14
12  TEST=U-1.0E-25
      IF(TEST)15,15,16

C
C      FREQUENCY OF PUBLICATION IS WEEKLY.
16  A(2)=4.0
      GO TO 14

C
C      FREQUENCY OF PUBLICATION IS MONTHLY OR QUARTERLY.
15  A(2)=2.0
      GO TO 14

C
C      FREQUENCY OF PUBLICATION IS BIWEEKLY, IRREGULAR, OR BIMONTHLY.
11  TEST=U-1.0E7
      IF(TEST)17,17,18

C
C      FREQUENCY OF PUBLICATION IS IRREGULAR.
18  A(2)=5.0
      GO TO 14
17  TEST = U-1.0
      IF(TEST)200,200,201

C
C      FREQUENCY OF PUBLICATION IS BIMONTHLY.
200 A(2)=3.0
      GOTD14

C
C      FREQUENCY OF PUBLICATION IS BIWEEKLY.
201  A(2)=1.0
14  A(10)=Y
      A(9)=X
      A(11)=Z
      A(12)=V

```

```

C      NAME OF PERIODICAL TO A(9) THROUGH A(12)
C
C      A(3) THROUGH A(7) ARE... NUMBER OF COPIES ORDERED, 1 IF HOLDINGS
C      ONLY, MONTH ORDERED, 1 IF VENDOR, AND 1 IF REFERENCE ROOM COPY
C      ONLY.
C
      VA(3)=V1
      VA(4)=V2
      VA(7)=V33
      VA(5)=V3
      VA(6)=V4
      IF(N4)21,22,21
C      NAME OF THE PUBLISHER
22 READ INPUT TAPE NTIN,23,N5,N6,(A(J),J=18,28)
23 FORMAT(I4,I1,11A6)
C      FIRST IS FULL NAME OF THE JOURNAL, FOLLOWED BY INFORMATION CARDS.
21 READ INPUT TAPE NTIN,23,N7,N8,(A(J),J=29,39)
      READ INPUT TAPE NTIN,23,N7,N8,(A(J),J=40,50)
      READ INPUT TAPE NTIN,23,N7,N8,(A(J),J=51,61)
      READ INPUT TAPE NTIN,23,N7,N8,(A(J),J=62,72)
      READ INPUT TAPE NTIN,23,N7,N8,(A(J),J=73,83)
      READ INPUT TAPE NTIN,23,N7,N8,(A(J),J=84,94)
      IP=1
      DO 41 KZ=1,500
C      41 V(KZ)=0
C      READ THE DISTRIBUTION CARDS (MAXIMUM OF 31).
      DO 31 KZ=1,31
      READ INPUT TAPE NTIN,24,N5,N6,N7,N8,(NI(L),L=1,16)
24 FORMAT(I4,I1,I2,I1,16I4)
25 IF(K-N5)28,27,28
28 PRINT 500, N5, K
500 FORMAT(1H0, 32H ERROR. DISTRIBUTION CARDS FOR I4, 20H ARE BEHIND
      1JOURNAL I4,/ 31H END PROGRAM. SAVE ALL OUTPUT.)
      PAUSE 22022
27 IF(N8)29,30,29
29 VI(16)=MAXPER-1
30 IPD=16*(IP-1)
      DO 32 NS=1,16
      IPA=IPD+NS
32 V(IPA)=NI(NS)
      IP=IP+1
      IF(N6)31,31,26
31 CONTINUE
C      WRITES THE JOURNAL NAME AND INFORMATION AND 31*16 WORDS OF
C      DISTRIBUTION LISTS ON TAPE 5.
26 WRITE TAPE NOUT,(A(ML),ML=1,95),(N(MP),MP=1,500)
      6 CONTINUE
      8 DO 35 ML=1,500
35 V(ML)=0
      DO 36 ML=1,50
36 A(ML)=0.0
C      LAST RECORD IS ZERO TO SIGNAL END OF THIS GROUP.
      WRITE TAPE NOUT,(A(ML),ML=1,95),(N(MP),MP=1,500)
C      THE NAMES OF THE JOURNALS HAVE BEEN STROED IN THE C ARRAY AND
C      ARE WRITTEN IN BINARY ON TAPE 5 AS THE THIRD GROUP OF INFORMATION.
      WRITE TAPE NOUT,(C(J),J=1,LIMM2)
      REWIND NOUT
      RETURN
      END(2,0,0,0,1)

```

```

C      03-29-65    SKELTON    PERSTP    8270    JOURNAL PROGRAM
C      SUBROUTINE PERSTP
C
C      PURPOSE OF THIS ROUTINE IS TO INVERT THE DISTRIBUTION FOR EACH
C      JOURNAL AND FORM THE LIST OF JOURNALS RECEIVED BY EACH PERSON.
C      THE FINAL FORM ON TAPE 5 IS 53 WORDS,, 3 WORDS OF
C      ALPHABETIC NAMES OF THE PEOPLE, FOLLOWED BY 50 WORDS CONTAINING
C      THE INDEX NUMBERS OF THE JOURNALS WHICH EACH PERSON RECEIVES.
C
C      DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
C      1,KPN(1000)
C      COMMON C,BLANK, N,A,NI,IX ,KPN
C      COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
C      EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
C      NOUT2=4
C      1 NOUT=5
C      REWIND NOUT2
C      READS IN 13 GROUPS OF 400 EACH.
C      DO 45 KM=1,13
C      IB=(KM-1)*400+1
C      IU=KM*400
C      IF(IB-MAXPER)146,147,147
C      146 REWIND NOUT
C      READS IN THE NAMES OF THE PEOPLE.
C      READ TAPE NOUT,(C(J),J=1,KIN )
C      DO 52 NB=1,400
C      52 IX(NB)=1
C      DO 56 NB=1,20000
C      56 NC(NB)=0
C      DO 42 KZ=1,LIMM
C      READS IN THE JOURNAL INFORMATION AND DISTRIBUTION CARDS.
C      READ TAPE NOUT,(A(ML),ML=1,95),(N(MP),MP=1,500)
C      IF(A(1))145,145,44
C      MAXIMUM OF 31 DISTRIBUTION CARDS. CHECKS EACH DIST. CARD FOR
C      ZERO IN THE FIRST LOCATION.
C      44 DO 46 KP=1,31
C      KQ=(KP-1)*16+1
C      IF(N(KQ))48,42,48
C      CHECKS EACH POSITION FOR ZERO. STORES THE NON-ZERO IDENT NUMBERS
C      IN THE NC ARRAY.
C      48 DO 47 KO=1,16
C      KR=KQ+KO-1
C      IF(N(KR))49,46,49
C      49 IF(N(KR)-IB)47,51,51
C      51 IF(N(KR)-IU)50,50,47
C      50 IZ=N(KR)-400*(KM-1)
C      IF(IZ-MAXPER)148, 47,148
C      148 NLJC=(IZ-1)*50+IX(IZ)
C      IX(IZ)=IX(IZ)+1
C      NC(NLOC)=NA(1)
C      47 CONTINUE
C      46 CONTINUE
C      42 CONTINUE

```

```

145 DO 53 KP=1,400
    NSUM=0
    IPC=(KP-1)*50
    DO 54 IP=1,50
        IP1=IPC+IP
        NSUM=NSUM+NC(IP1)
    54 NA(IP)=NC(IP1)
        IF(NSUM)55,53,55
    55 IKP=KP+(KM-1)*400
        WRITE TAPE NOUT2,IKP,(NA(IP),IP=1,50)
    53 CONTINUE
    45 CONTINUE
147 CONTINUE
    IKP=0
    WRITE TAPE NOUT2,IKP,(NA(IP),IP=1,50)
    REWIND NOUT
    READ TAPE NOUT,(C(J),J=1,KIN )
    DO63KM=1,LIMM
    READ TAPENOUT,(A(J),J=1,95),(N(I),I=1,500)
        IF(A(1))63,64,63
    63 CONTINUE
    64 CONTINUE
        READ TAPE NOUT,(XX ,J=1,LIMM2)
        REWIND NOUT2
        DO 60 IJ=1,MAXPER
            READ TAPE NOUT2,IKP,(NA(IP),IP=1,50)
            IF(IKP)61,62,61
    61 DO 160 NZ=1,KINN
            IF(KPN(NZ))163,161,163
    163 IF(KPN(NZ)-IKP) 160,162,160
    160 CONTINUE
    161 PRINT 1700 ,IKP
        NZ = 999
1700 FORMAT(1H1,61HPERSTP PEOPLE INDICES DO NOT AGREE.  PRESS START TO
    1CONTINUE./ 23H LOOK FOR PEOPLE INDEX 14//)
    162 NX=(NZ-1)*3+1
        X=C(NX)
        Y=C(NX+1)
        Z=C(NX+2)
        WRITE TAPE NOUT,X,Y,Z,(NA(IP),IP=1,50)
    60 CONTINUE
    62 CONTINUE
        X=0.0
        WRITE TAPE NOUT,X,Y,Z,(NA(IP),IP=1,50)
        REWIND NOUT2
        REWIND NOUT
        RETURN
        END(2,0,0,0,1)

```

```

C      03-09-65   SKELTON   BLURB2   8270   JOURNAL PROGRAM
C      SUBROUTINE BLURB2
C
C      PURPOSE      TO PROVIDE A LIST, TO EACH PERSON,  OF THE THE JOURNALS
C      WHICH HE RECEIVES AND TO ALLOW HIM TO MAKE CHANGES.
C
      DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
      I,KPN(1000)
      COMMON C,BLANK, N,A,NI,IX ,KPN
      COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
      EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
1000  NOUT=10
      NIN=5
      REWIND NIN
      READ TAPE NIN,(C(J),J=1,KIN )
      1 DO 2 K=1,LIMM
      READ TAPE NIN,(A(J),J=1,95),(N(I),I=1,500)
      IF(A(1))401,402,401
401  CONTINUE
      2 CONTINUE
402  READ TAPE NIN,(C(J),J=1,LIMM2)
      DO400IJ=1,MAXPER
      READ TAPE NIN,X,Y,Z,(N(IP),IP=1,50)
      IF(X)403,404,403
403  WRITE OUTPUT TAPE NOUT,
      1103
      WRITE OUTPUT TAPE NOUT,100,X,Y,Z
      WRITE OUTPUT TAPE NOUT,102
      WRITE OUTPUT TAPE NOUT,101
      WRITE OUTPUT TAPE NOUT,106
      WRITE OUTPUT TAPE NOUT,107
      WRITE OUTPUT TAPE NOUT,108
      WRITE OUTPUT TAPE NOUT,102
      DO 8 KJ=1,50
      NX=(N(KJ)-1)*4+1
      IF(N(KJ))23,24,23
      24 GOTO410
      23 X=C(NX)
      Y=C(NX+1)
      Z=C(NX+2)
      V=C(NX+3)
      333 WRITE OUTPUT TAPE NOUT,
      1104,KJ,X,Y,Z,V
      8 CONTINUE
      GOTO411
410  IF(KJ-20)411,412,412
412  WRITE OUTPUT TAPE NOUT,109
411  CONTINUE
400  CONTINUE
404  CONTINUE
      REWIND NIN
      3 RETURN

```

```
100 FORMAT(1H 4A6)
102 FORMAT(1H0)
103 FORMAT(1H1)
104 FORMAT(1H 12,2H 4A6)
105 FORMAT(1H0/)
101 FORMAT(55H THIS IS A LIST OF JOURNALS CIRCULATED TO YOU BY TIS. )
106 FORMAT(55H IF YOU NO LONGER DESIRE TO READ A PARTICULAR JOURNAL, )
107 FORMAT(55H OR IF YOU DESIRE TO ADD ONE OR MORE JOURNALS FROM THE )
108 FORMAT(55H ATTACHED LIST, PLEASE INDICATE AND RETURN TO TIS. )
109 FORMAT(55H000 YOU REALLY READ THIS MANY JOURNALS )
      END(2,0,0,0,0)
```



```

C      05-17-65      SUBLST      SKELTON  8270  JOURNAL PROGRAM
C      SUBROUTINE SUBLST
C
C      PURPOSE      TO PROVIDE A LIST OF CIRCULATING JOURNALS AND A LIST
C      OF THOSE JOURNALS WHICH REMAIN IN THE REFERENCE ROOM.  THE REFEREN
C      CE ROOM JOURNALS ,  CAN BE CIRCULATED IF ENOUGH INTEREST IS SHOWN
C      TO WARRANT ORDERING ANOTHER COPY.
C
      DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
      1,KPN(1000)
      COMMON C,BLANK, N,A,NI,IX ,KPN
      COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
      EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
      NIN=5
      NOUT=10
      DO 10 KL=1,10000
10      NC(KL)=0
      REWIND NIN
      K=1
      I=5001
      READ TAPE NIN,(XX,J=1,KIN)
      DO 92 KZ=1,LIMM
      READ TAPE NIN,(A(ML),ML=1,95),(N(MP),MP=1,500)
      IF(A(1))145,145,94
94      IF(NA(4))1,1,92
      1 IF(NA(7))2,2,3
      3 NC(1)=NA(1)
      I=I+1
      GO TO 92
      2 NC(K)=NA(1)
      K=K+1
92      CONTINUE
145      NIN2=4
      REWIND NIN2
      DO 200 LM=1,35
      KO=(LM-1)*144+1
      IF(NC(KO))402,202,402
402      DO 203 KX=1,144
      KY=KO+KX-1
203      N(KX)=NC(KY)
      WRITE TAPE NIN2,(N(KZ),KZ=1,144)
      DO 301 K=1,144
301      N(K) = 0
200      CONTINUE
202      N(1)=0
      WRITE TAPE NIN2,(N(KZ),KZ=1,144)
403      DO 204 LM=1,35
      KO=(LM-1)*144+5001
      IF(NC(KO))205,206,205
205      DO 207 KX=1,144
      KY=KO+KX-1
207      N(KX)=NC(KY)
      WRITE TAPE NIN2,(N(KZ),KZ=1,144)
      DO 302 K=1,144
302      N(K) = 0
204      CONTINUE

```

```

206 N(1)=0
    WRITE TAPE NIN2,(N(KZ),KZ=1,144)
    REWIND NIN2
    READ TAPE NIN,(C(J),J=1,LIMM2)
    REWIND NIN
    DO 20 MN=1,35
        READ TAPE NIN2,(N(KZ),KZ=1,144)
        IF(N(1))210,13,210
210  WRITE OUTPUT TAPE NOUT,100
        WRITE OUTPUT TAPE NOUT,102
        DO 11 KJ=1,72
            KN=KJ+72
            NX=N (KJ)
            IF(NX)12,13,12
12  NX=4*(NX-1)
            X=C(NX+1)
            Y=C(NX+2)
            Z=C(NX+3)
            V=C(NX+4)
            NY=N (KN)
            IF(NY)14,15,14
14  NY=4*(NY-1)
            UX=C(NY+1)
            UY=C(NY+2)
            UZ=C(NY+3)
            UV=C(NY+4)
            GO TO 16
15  UX=BLANK
            UY=UX
            UZ=UX
            UV=UX
16  WRITE OUTPUT TAPE NOUT,106,X,Y,Z,V,UX,UY,UZ,UV
11  CONTINUE
20  CONTINUE
13  CONTINUE
    DO 21 MN=1,35
        READ TAPE NIN2,(N(KZ),KZ=1,144)
        IF(N(1))211,43,211
211  WRITE OUTPUT TAPE NOUT,103
        WRITE OUTPUT TAPE NOUT,104
        WRITE OUTPUT TAPE NOUT,105
        WRITE OUTPUT TAPE NOUT,102
        DO 22 KJ=1,72
            KN=KJ+72
            NX=N (KJ)
            IF(NX)42,43,42
42  NX=4*(NX-1)
            X=C(NX+1)
            Y=C(NX+2)
            Z=C(NX+3)
            V=C(NX+4)
            NY=N (KN)
            IF(NY)44,45,44

```

```

44 NY=4*(NY-1)
   UX=C(NY+1)
   UY=C(NY+2)
   UZ=C(NY+3)
   UV=C(NY+4)
   GO TO 46
45 UX=BLANK
   UY=UX
   UZ=UX
   UV=UX
46 WRITE OUTPUT TAPE NOUT,106,X,Y,Z,V,UX,UY,UZ,UV
22 CONTINUE
21 CONTINUE
43 CONTINUE
   REWIND NIN2
   RETURN
100 FORMAT(55H1 THE FOLLOWING JOURNALS ARE CIRCULATED AT PRESENT )
102 FORMAT( 1H0/)
103 FORMAT(55H1 THE FOLLOWING JOURNALS ARE LIBRARY COPIES ONLY. )
104 FORMAT(55H  IF SUFFICIENT INTEREST IS SHOWN IN A PARTICULAR )
105 FORMAT(55H  JOURNAL, A CIRCULATION COPY WILL BE ORDERED. )
106 FORMAT( 1H 4A6,12H          4A6)
   END(2,0,0,0,0)

```

```

C      05-18-65      SKELTON      PRLIST      8270      JOURNAL PROGRAM
      SUBROUTINE PRLIST
      DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
      1,KPN(1000)
      COMMON C,BLANK, N,A,NI,IX ,KPN
      COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
      EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
C      CIRCULATION TAPE IS COMPOSED AS FOLLOWS
C      RECORD 1 3000 WORDS IN SETS OF 3 WORDS ALPHA INFO FOR UP TO
C      1000 NAMES PLUS LOCATION ON CIRCULATION LIST
C      THEN FOLLOWS UP TO 750 RECORDS OF LENGTH 595 WORDS. 95 WORDS
C      ARE ALPHA INFO ABOUT JOURNAL DATA. 500 WORDS ARE FOR
C      THE MAXIMUM OF 500 PEOPLE THE JOURNAL IS SENT TO
C      THEN 3000 WORDS IN SETS OF 3 WORDS ALPHA INFO FOR UP TO
C      750 DIFFERENT JOURNAL NAMES
C      THEN FOLLOWS UP TO 1000 RECORDS OF LENGTH 53 WORDS. WORDS 1-3 ARE
C      NAME FOR THE PERSON AND WORDS 4 THRU 53 ARE INDICES
C      OF THE MAXIMUM OF FIFTY JOURNALS HE MAY RECEIVE
C      THIS TAPE IS LOCATED ON TAPE DRIVE 5
C      ENTRY AT INSTRUCTION 1 PREPARES LISTS OF DISTRIBUTION OF JOURNALS
C      AND OF JOURNALS RECEIVED BY EACH PERSON
1000 NOUT=10
      NIN=5
      REWIND NIN
      READ TAPE NIN,(C(J),J=1,KIN )
      NCT=1
      WRITE OUTPUT TAPE NOUT,
1103
C      READS IN THE JOURNAL INFORMATION AND DISTRIBUTION CARDS.
      1 DO 2 K=1,LIMM
      READ TAPE NIN,(A(J),J=1,95),(N(I),I=1,500)
      IF(N(1)-MAXPER)40,41,40
41 L=2
      GO TO 42
40 L=1
42 IF(A(1))2,3,4
      4 DO 18 IJ=L,51
C      A(1) IS ZERO FOR LAST RECORD OF JOURNAL DISTRIBUTION
C      A(2) IS 0.0 FOR WEEKLY, 1.0 FOR BIWEEKLY, 2.0 FOR MONTHLY,3.0 FOR
C      BIMONTHLY, 4.0 FOR QUARTERLY, AND 5.0 FOR IRREGULAR
      IL=16*(IJ-1)+1
      IF(N(IL)-999) 400, 18, 400
400 IF(N(IL)-9999)401,18,401
401 IF(N(IL))9, 2,9
C      DISTRIBUTION LISTS HAVE UP TO 30 SETS OF 16 NAME INDICES EACH.

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C   WHEN FIRST INDEX IN A SET IS ZERO, NO MORE SETS ARE WORKED ON
9   IF(A(2)-1.0)7,6,5
7   LEJ=5
   GO TO 22
6   LEJ=2
   GO TO 22
5   LEJ=1
22  DO 28 KN=1,LEJ
   WRITE OUTPUT TAPE NOUT,
   1100,A(9),A(10),A(11),A(12)
   IA=A(2)
   IA=IA+1
   GO TO (30,31,32,135,33,34),IA
30  CONTINUE
C           WEEKLY
   WRITE OUTPUT TAPE NOUT,
   1106,IJ
   GOTO35
31  CONTINUE
C           BIWEEKLY
   WRITE OUTPUT TAPE NOUT,
   1206,IJ
   GOTO35
32  CONTINUE
C           MONTHLY
   WRITE OUTPUT TAPE NOUT,
   1108,IJ
   GOTO35
C           BIMONTHLY
135 WRITE OUTPUT TAPE NOUT,
   1107,IJ
   GOTO35
33  CONTINUE
C           QUARTERLY
   WRITE OUTPUT TAPE NOUT,
   1109,IJ
   GOTO35
34  CONTINUE
C           IRREGULAR
   WRITE OUTPUT TAPE NOUT,
   1110,IJ
35  CONTINUE
   WRITE OUTPUT TAPE NOUT,
   1101
   WRITE OUTPUT TAPE NOUT,
   1102
C   WILL WRITE 16 TIMES THE NAMES OF PEOPLE IF AVAILABLE , BLANKS IF
C   NOT.
   DO 8 KJ=1,16
   KY=IL+KJ-1
   NJS=N(KY)
   DO 224 NZ=1,KINN
   IF(NJS-KPN(NZ))224,225,224
224 CONTINUE
   PRINT 2000, NJS , NA(1)

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2000 FORMAT(1H0, 26H ERROR FOR PAYROLL NUMBER ,I4,16H JOURNAL NUMBER I4
1)
225 NX=(NZ-1)*3+1
      IF(N(KY))23,24,23
24  X=BLANK
      Y=X
      Z=X
      GOTO333
23  X=C(NX)
      Y=C(NX+1)
      Z=C(NX+2)
333  WRITE OUTPUT TAPE NOUT,
      1104,KJ,X,Y,Z
      8 CONTINUE
      IF(NJS-MAXJNL+1)1001,1002,1001
1001 WRITE OUTPUTTAPE NOUT,111
1002 WRITE OUTPUT TAPE NOUT,
      1105
      IF(NCT-3)20,21,20
20  NCT=NCT+1
      GO TO 28
21  NCT=1
      WRITE OUTPUT TAPE NOUT,
      1103
28  CONTINUE
18  CONTINUE
2   CONTINUE
3   RETURN
100 FORMAT(1H 4A6)
101 FORMAT(25H0 PLEASE READ PROMPTLY )
102 FORMAT(1H0)
103 FORMAT(1H1)
104 FORMAT(1H I2,2H 3A6)
105 FORMAT(1H0/)
106 FORMAT(20H0 WEEKLY COPY I2)
107 FORMAT(20H0 BIMONTHLY COPY I2)
206 FORMAT(20H0 BIWEEKLY COPY I2)
108 FORMAT(20H0 MONTHLY COPY I2)
109 FORMAT(20H0 QUARTERLY COPY I2)
110 FORMAT(20H0 IRREGULAR COPY I2)
111 FORMAT(25H 17 TIS 773A )
112 FORMAT(1H0/////////)
      END(2,0,0,0,1)

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C 11-12-64 8270 SKELTON SBORDR JOURNAL DISTRIBUTION PROGRAM
SUBROUTINE SBORDR

C PURPOSE TO PROVIDE A LIST OF THOSE JOURNALS WHICH MUST BE
C RE-ORDERED TWO MONTHS HENCE.
DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
1,KPN(1000)
COMMON C,BLANK, N,A,NI,IX ,KPN
COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),NI(1)),(NA(1),A(1))
NIN=5
NOUT=10
IV=1
MM=MONTH+2
IF(MM-12)150,150,151
151 MM=MM-12
150 IZ=1
REWIND NIN
READ TAPE NIN,(C(J),J=1,KIN)
DO 10 KL=1,5000
10 NC(KL)=0
DO 42 KZ=1,LIMM
READ TAPE NIN,(A(ML),ML=1,95),(N(MP),MP=1,500)
IF(A(1))145,145,44
44 IF(NA(5)-MM)42,152,42
152 IF(NA(6))154,153,154
154 NC(IZ)=NA(1)
IZ=IZ+1
GO TO 42
153 IF(IV-1)1153,1154,1153
1154 WRITE OUTPUT TAPE NOUT,103,MM
1153 WRITE OUTPUT TAPE NOUT,100,(A(J),J=29,39)
WRITE OUTPUT TAPE NOUT,101,(A(J),J=13,17)
WRITE OUTPUT TAPE NOUT,101,(A(J),J=18,22)
WRITE OUTPUT TAPE NOUT,101,(A(J),J=23,28)
IF(IV-14)160,161,160
160 IV=IV+1
GO TO 42
161 IV=1
42 CONTINUE
145 NIN2=4
REWIND NIN2
DO 200 LM=1,35
KO=(LM-1)*144+1
IF(NC(KO))402,403,402
402 DO 203 KX=1,144
KY=KO+KX-1
203 N(KX)=NC(KY)
WRITE TAPE NIN2,(N(KZ),KZ=1,144)
200 CONTINUE
403 N(1)=0
WRITE TAPE NIN2,(N(KZ),KZ=1,144)
REWIND NIN2
READ TAPE NIN,(C(J),J=1,LIMM2)
REWIND NIN
DO 20 MN=1,35
READ TAPE NIN2,(N(KZ),KZ=1,144)
IF(N(1))210,13,210

```

210 WRITE OUTPUT TAPE NOUT,103 ,MM
    WRITE OUTPUT TAPE NOUT,104
    WRITE OUTPUT TAPE NOUT,104
    DO 11 KJ=1,72
    KN=KJ+72
    NX=N (KJ)
    IF(NX)12,13,12
12  NX=4*(NX-1)
    X=C(NX+1)
    Y=C(NX+2)
    Z=C(NX+3)
    V=C(NX+4)
    NY=N (KN)
    IF(NY)14,15,14
14  NY=4*(NY-1)
    UX=C(NY+1)
    UY=C(NY+2)
    UZ=C(NY+3)
    UV=C(NY+4)
    GO TO 16
15  UX=BLANK
    UY=UX
    UZ=UX
    UV=UX
16  WRITE OUTPUT TAPE NOUT,106,X,Y,Z,V,UX,UY,UZ,UV
11  CONTINUE
20  CONTINUE
13  CONTINUE
    REWIND NIN2
    RETURN
100 FORMAT(1H011A6)
101 FORMAT(1H 11A6)
103 FORMAT(39H1  ORDER THE FOLLOWING JOURNALS BY THE 12,20TH MONTH OF
1  THE YEAR)
104 FORMAT(1H0)
106 FORMAT( 1H 4A6,12H          4A6)
    END(2,0,0,0,0)

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C      10-30-64  SKELTON  BLURB1  8270  JOURNAL PROGRAM
C      SUBROUTINE BLURB1
C
C      PURPOSE IS TO GIVE A LIST OF HOLDINGS IN THE LIBRARY.  DEFINITION
C      HOLDINGS--- THOSE JOURNALS OF WHICH ONE COPY IS HELD ON PERMANENT
C      FILE.
C
      DIMENSION A(95),N(500),C(20800),NA(95),NI(16),IX(400),NC(20800)
      1,KPN(1000)
      COMMON C,BLANK, N,A,NI,IX ,KPN
      COMMON MONTH,NAMNO,MAXPER,MAXJNL,NAMJNL,KIN,LIMM,LIMM2,KINN
      EQUIVALENCE (NC(1),C(1)),(BLANK,BLANK),(N(1),N(1)),(NA(1),A(1))
      NCT=0
      NOUT=10
      NIN=5
      REWIND NIN
      WRITE OUTPUT TAPE NOUT,3
      READ TAPE NIN,(C(J),J=1,KIN )
      WRITE OUTPUT TAPE NOUT,100
      WRITE OUTPUT TAPE NOUT,101
      DO 1 I=1,LIMM
      READ TAPE NIN,(A(J),J=1,95)
      IF(A(1))11,12,11
11 DO 5 JK=1,6
      TEST=0.0
      DO 2 K=1,11
      NK=(JK-1)*11+K+28
S      CLA A(NK)
S      SUB BLANK
S      STD XX
      IF(XX)4,8,4
      4 TEST=1.0
      8 C(K)=A(NK)
      2 CONTINUE
      IF(TEST)7,5,7
      7 WRITE OUTPUT TAPE NOUT,10,(C(J),J=1,11)
10 FORMAT(1H 11A6)
      NCT=NCT+1
      5 CONTINUE
      WRITE OUTPUT TAPE NOUT,101
      IF(NCT-73)1,18,18
18 WRITE OUTPUT TAPE NOUT,3
      NCT=0
      1 CONTINUE
      3 FORMAT(1H1)
100 FORMAT(67H THIS IS A LIST OF JOURNAL HOLDINGS IN TIS LIBRARY
      1 )
101 FORMAT(1H0)
12 REWIND NIN
      RETURN
      END(2,0,0,0,0)

```