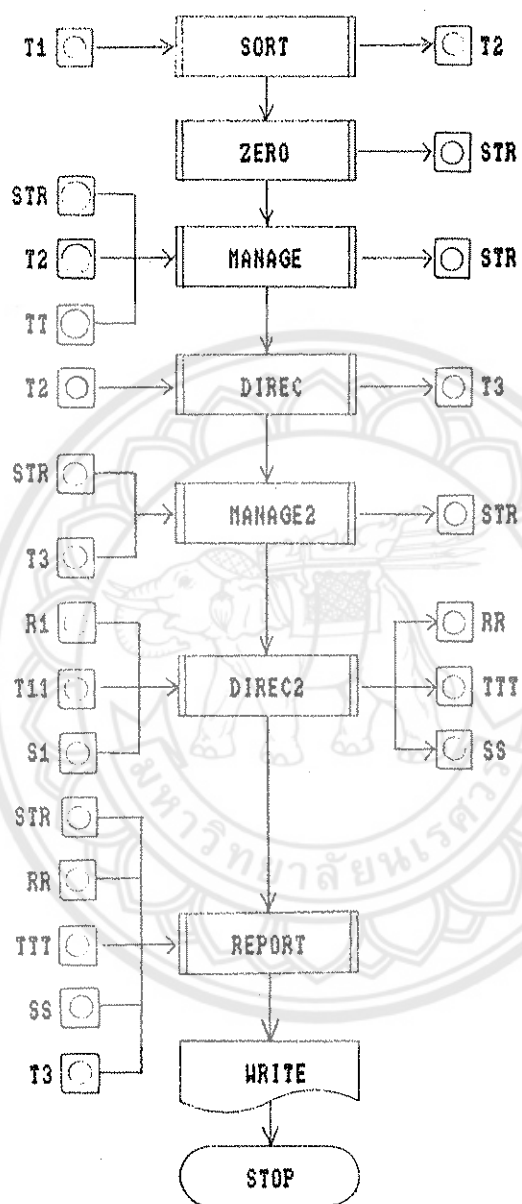


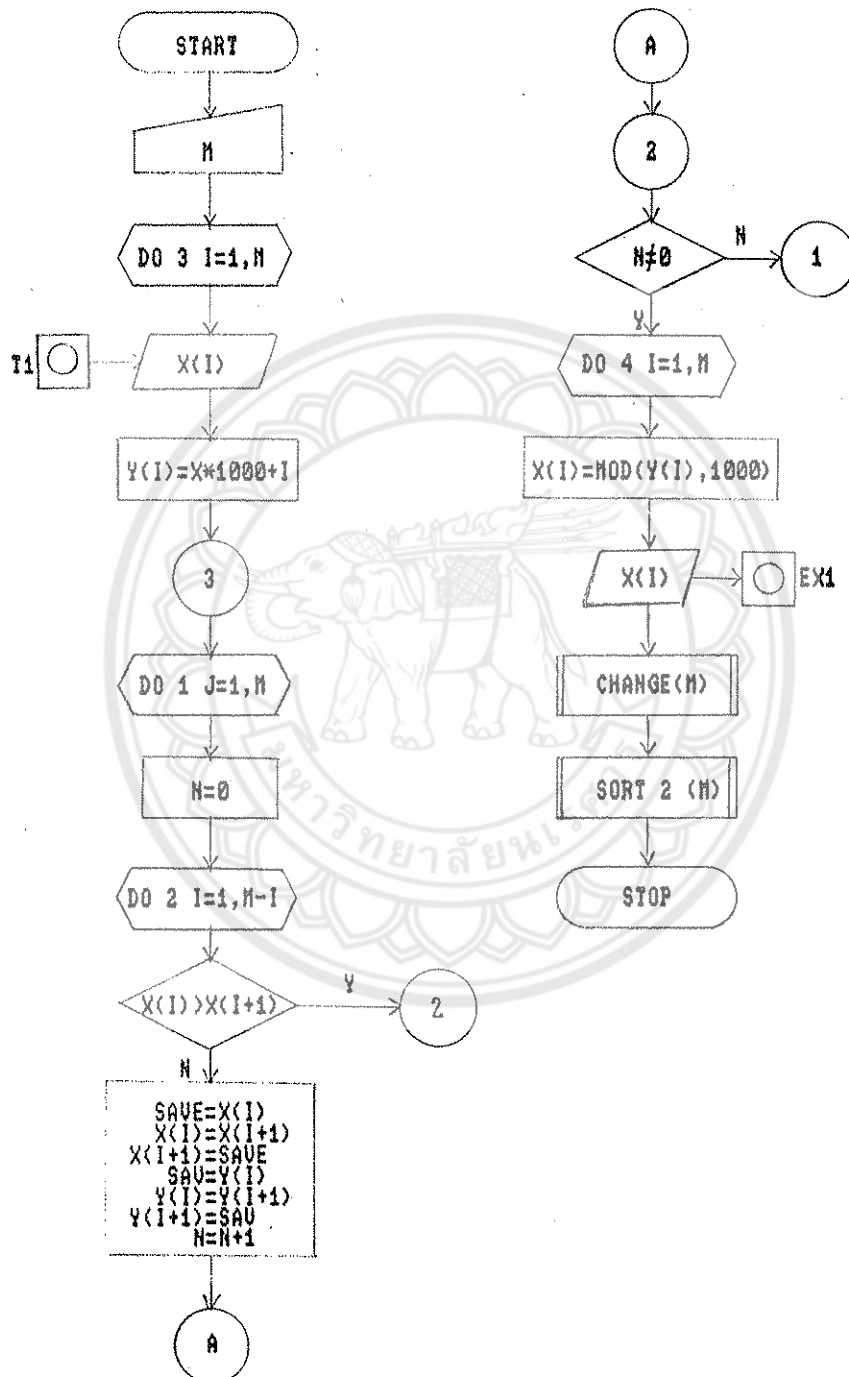




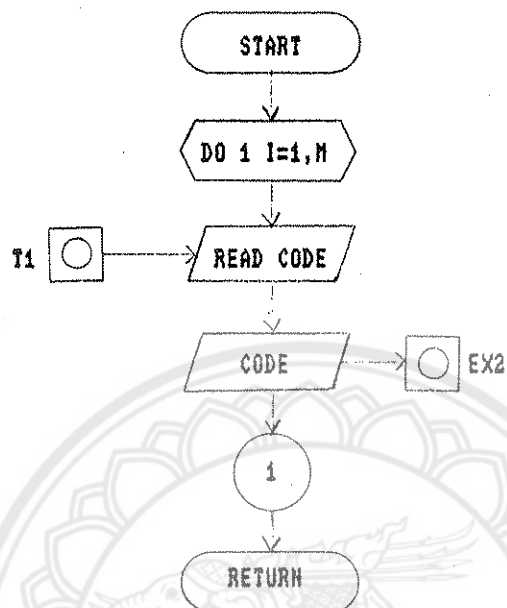
ภาพประกอบ 5 SYSTEM FLOWCHART



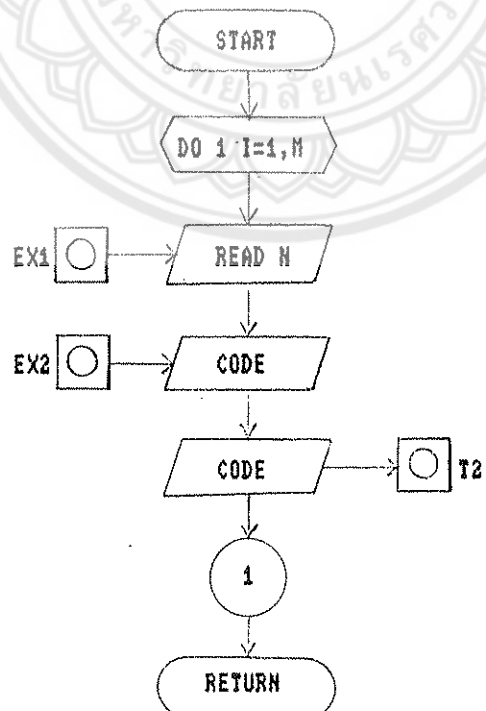
ภาพประกอบ 6 FLOWCHART PROGRAM SORT



FLOWCHART SUBROUTINE CHANGE(M)



FLOWCHART SUBROUTINE SORT2(M)



```

1:*****
2: *****PROGRAM SORT**
3: *****
4:      IMPLICIT INTEGER (D-Z)
5:      DIMENSION X(500),Y(500)
6:      OPEN(1,FILE='T1')
7:      OPEN(2,FILE='EX1',STATUS='NEW')
8:      WRITE(*,10)
9:      10  FORMAT(2X,'Input number of subject *I3* ',\ )
10:      READ(*,'(I3)')M
11:      DO 3 I=1,M
12:      READ(1,50) X(I)
13:      50  FORMAT(I1)
14:      3   Y(I)=X(I)*1000+I
15:      DO 1 J=1,M
16:      N=0
17:      DO 2 I=1,M-I
18:      IF (X(I).GE.X(I+1)) GOTO 2
19:      SAVE=X(I)
20:      X(I)=X(I+1)
21:      X(I+1)=SAVE
22:      SAV=Y(I)
23:      Y(I)=Y(I+1)
24:      Y(I+1)=SAV
25:      N=N+1
26:      2   CONTINUE
27:      IF (N.EQ.0) GOTO 20
28:      1   CONTINUE
29:      20  DO 4 I=1,M
30:      X(I) = MOD(Y(I),1000)
31:      4   WRITE(2,'(I3)') X(I)
32:      CLOSE(1)
33:      CLOSE(2)
34:      WRITE(*,70)
35:      70  FORMAT(' I AM RUNNING IN CHANGE')
36:      CALL CHANGE(M)
37:      WRITE(*,60)
38:      60  FORMAT(' I AM RUNNING IN SORT2')
39:      CALL SORT2(M)
40:      STOP
41:      END

```

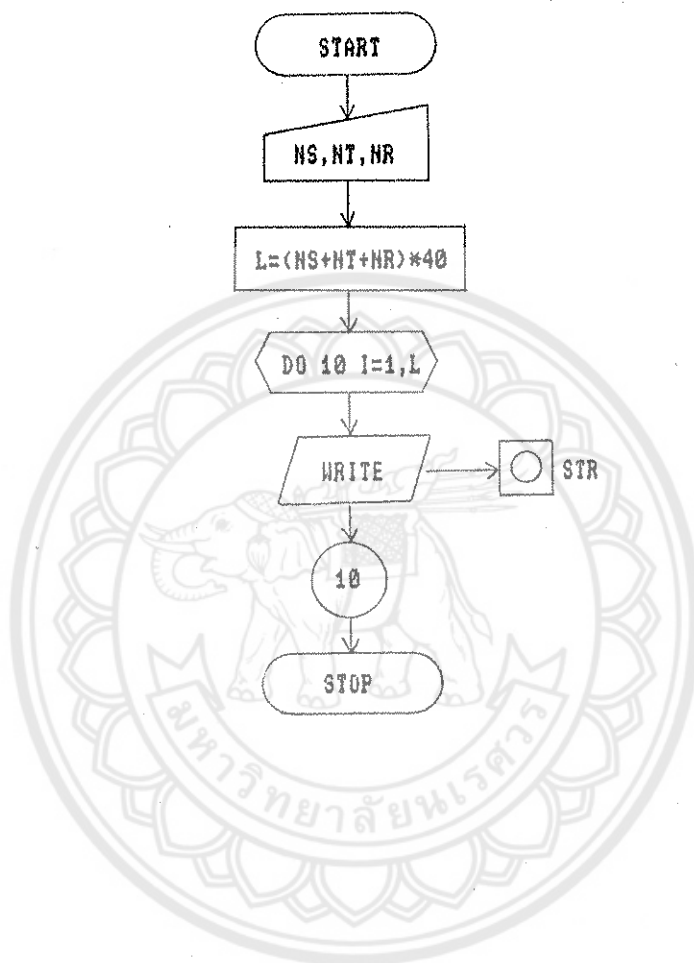
*

```

42: C*****
43: C*****Sub Change*
44: C*****
45:     SUBROUTINE CHANGE(M)
46:     CHARACTER CODE*55
47:     OPEN(1,FILE='T1')
48:     OPEN(2,FILE='EX2',STATUS='NEW',ACCESS='DIRECT',
49:     1FORM='UNFORMATTED',RECL=58)
50:     DO 1 I=1,M
51:     READ(1,'(1X,A55)') CODE
52:     WRITE(2,REC=I) CODE
53:     1 CONTINUE
54:     CLOSE(1)
55:     CLOSE(2)
56:     RETURN
57:     END
58: C*****
59: C*****Sub Sort2*
60: C*****
61:     SUBROUTINE SORT2(M)
62:     CHARACTER CODE*55
63:     OPEN(2,FILE='EX2',STATUS='OLD',ACCESS='DIRECT',
64:     1FORM='UNFORMATTED',RECL=58)
65:     OPEN(4,FILE='EX1')
66:     OPEN(5,FILE='T2',STATUS='NEW')
67:     DO 1 I=1,M
68:     READ(4,20) N
69:     20 FORMAT(I3)
70:     READ(2,REC=N) CODE
71:     WRITE(5,10) CODE
72:     10 FORMAT(A55)
73:     1 CONTINUE
74:     CLOSE(2)
75:     CLOSE(4)
76:     CLOSE(5)
77:     RETURN
78:     END

```

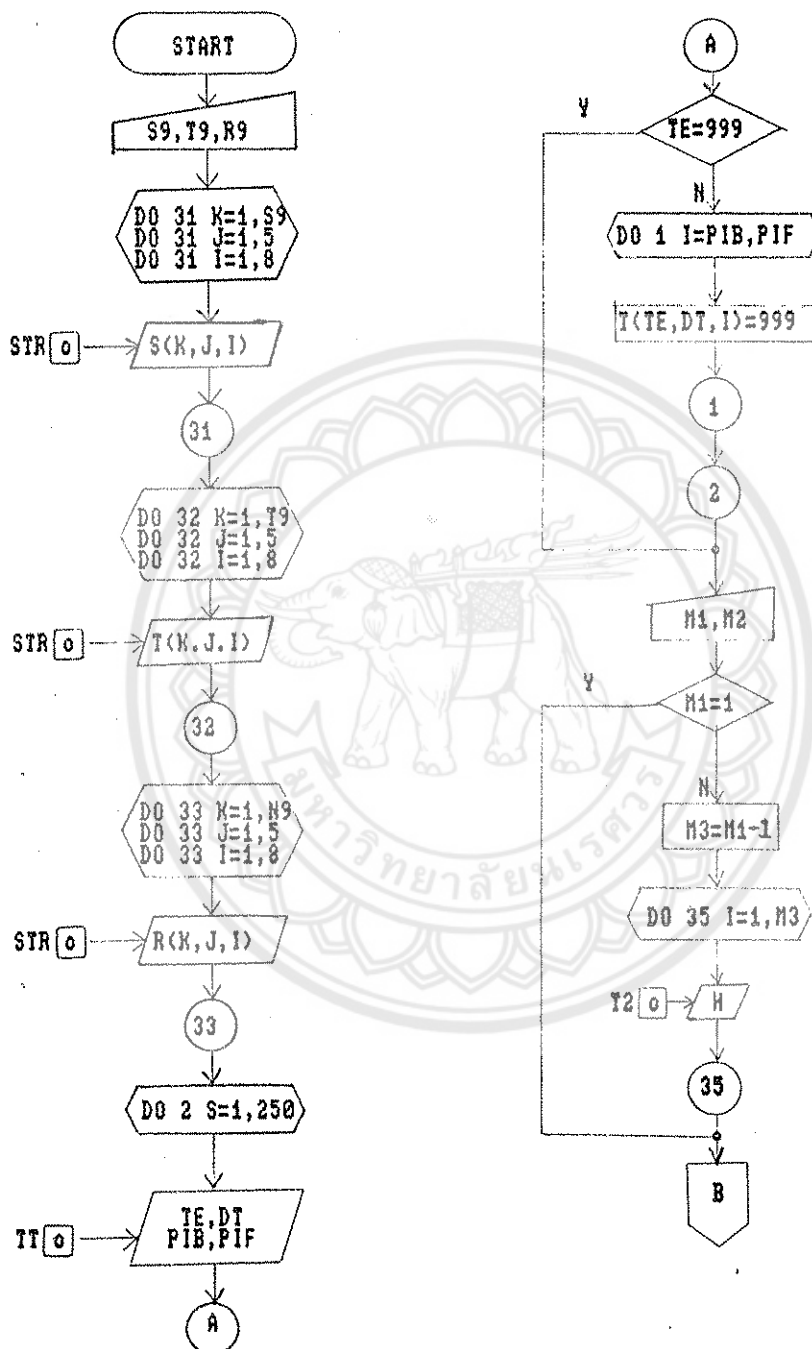
ภาพประกอบ 7 FLOWCHART PROGRAM ZERO

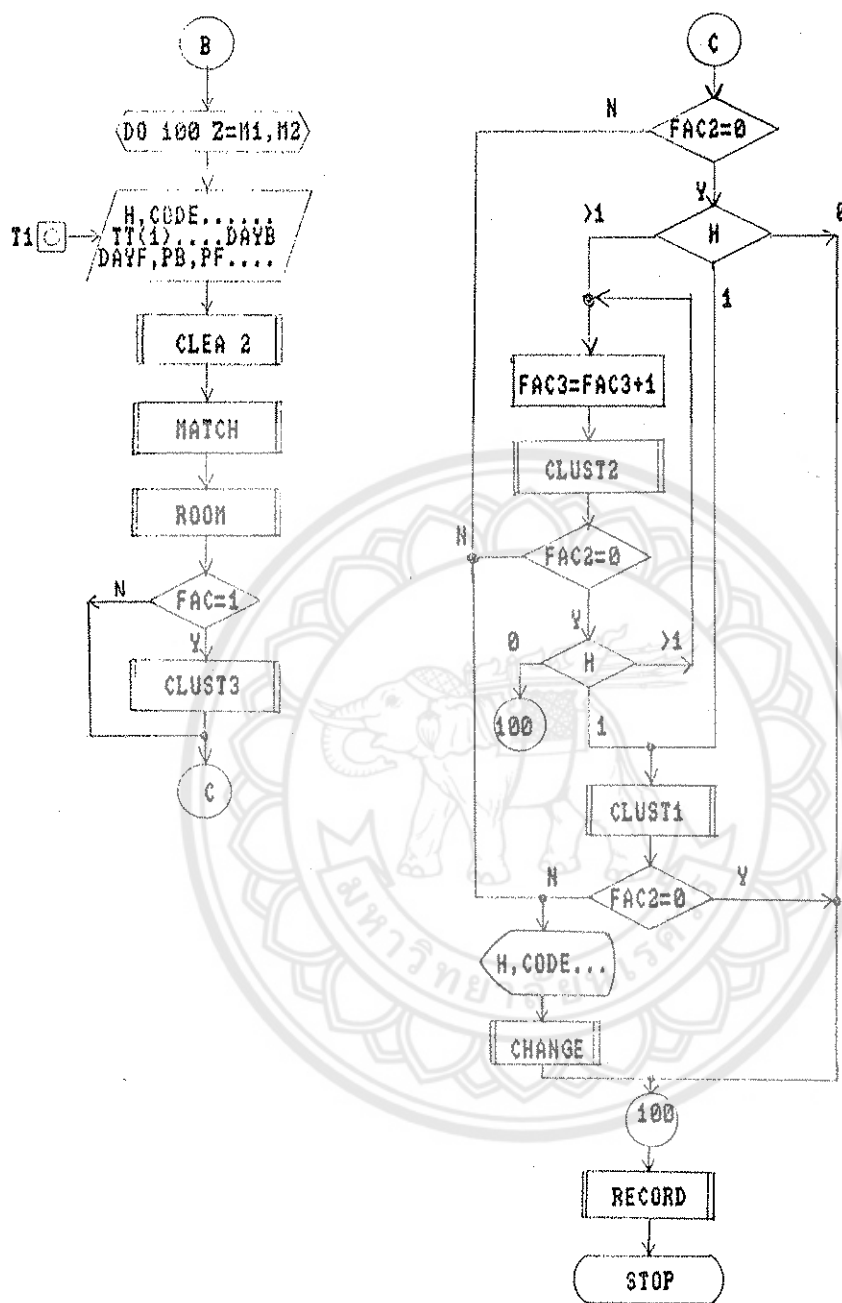


```
1:*C*****
2: C*****PROGRAM ZERO**
3: C*****
4:     IMPLICIT INTEGER (D-Z)
5:     OPEN (1,FILE='STR',STATUS='NEW')
6:     WRITE(*,5)
7:     5   FORMAT(' INPUT NUMBER STUDENT TEACHER ROOM *3I3* ',\ )
8:     READ(*,9) NS,NR,NT
9:     9   FORMAT(3I3)
10:     L=(NS+NR+NT)*40
11:     DO 10 I=1,L
12:     WRITE(1,20)
13:     20  FORMAT('000')
14:     10  CONTINUE
15:     CLOSE(1)
16:     STOP
17:     END
```



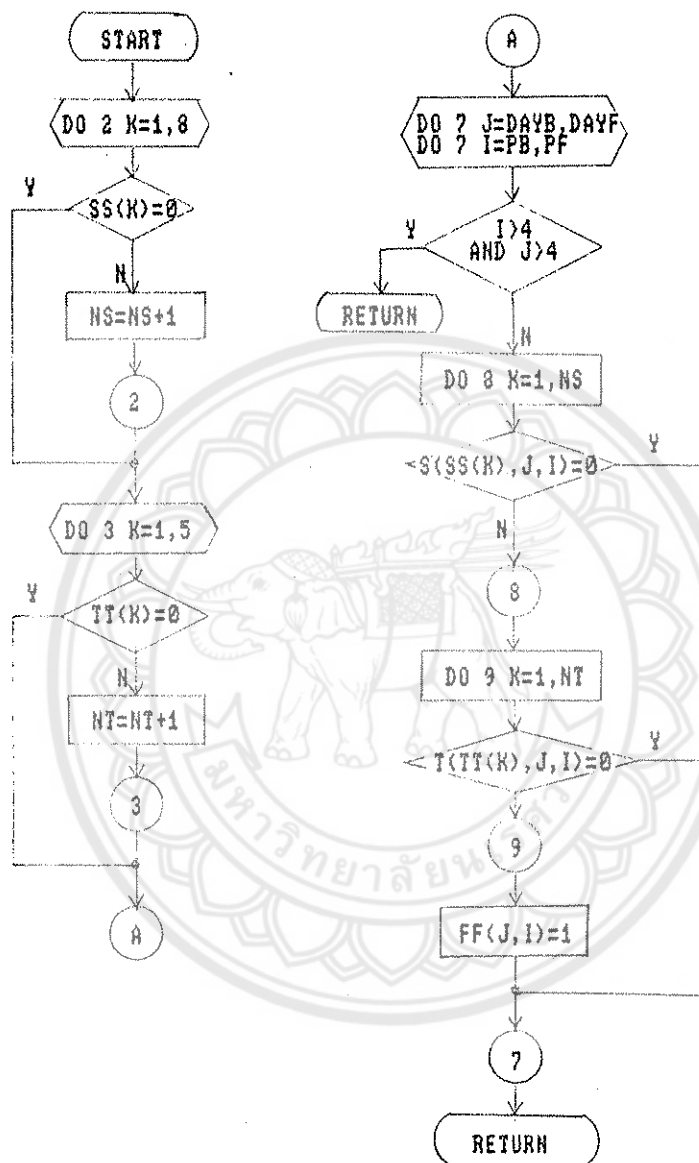
ภาพประกอบ 8 FLOWCHART PROGRAM MANAGE





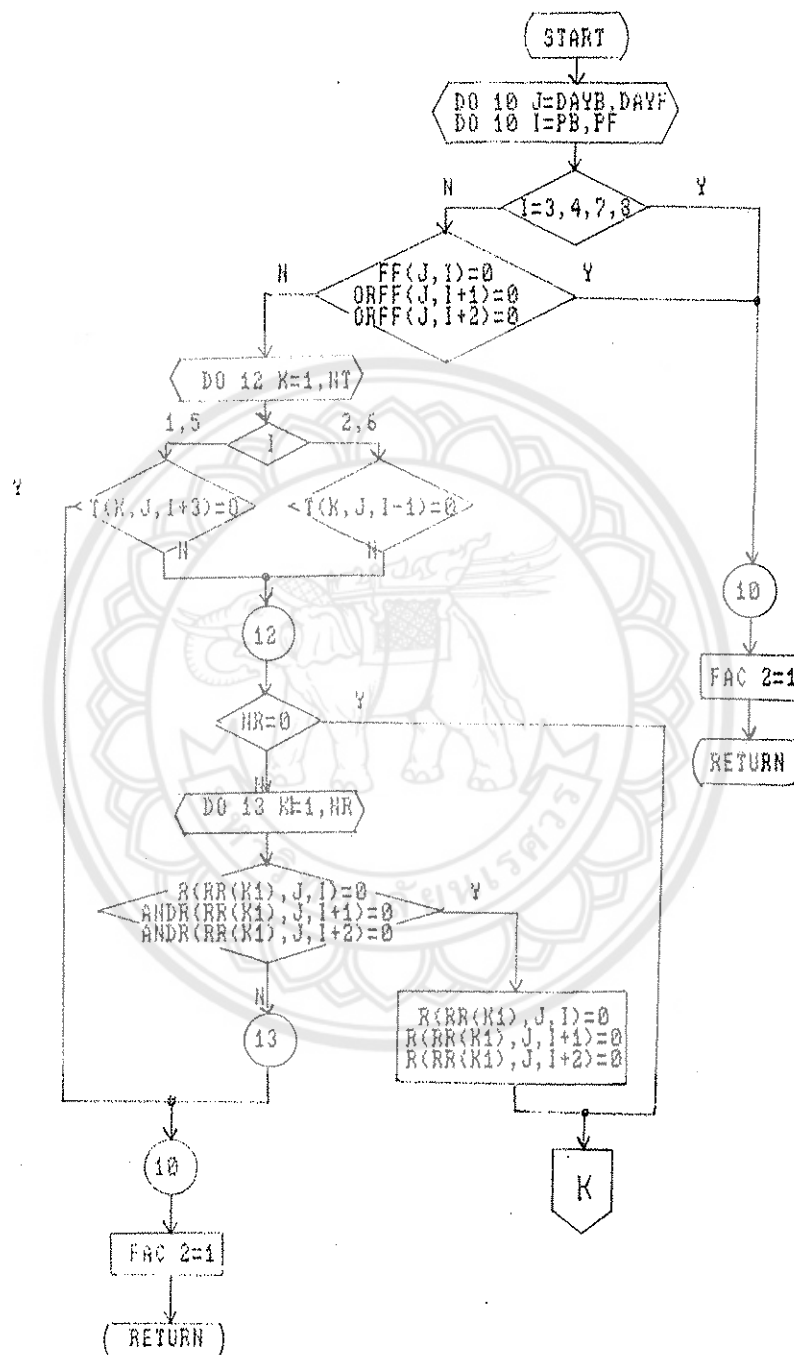
ภาพประกอบ 8 (ต่อ)

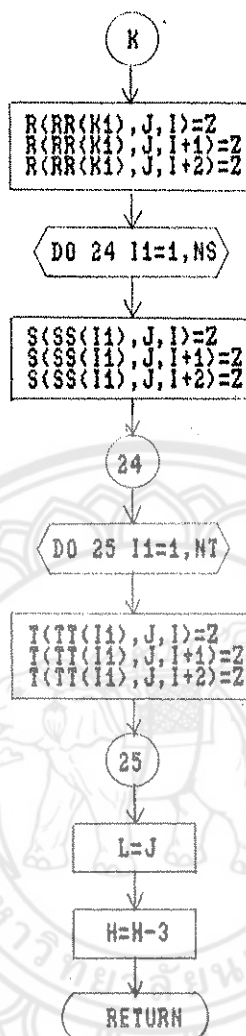
FLOWCHART SUBROUTINE MATCH



ภาพประกอบ 8 (ต่อ)

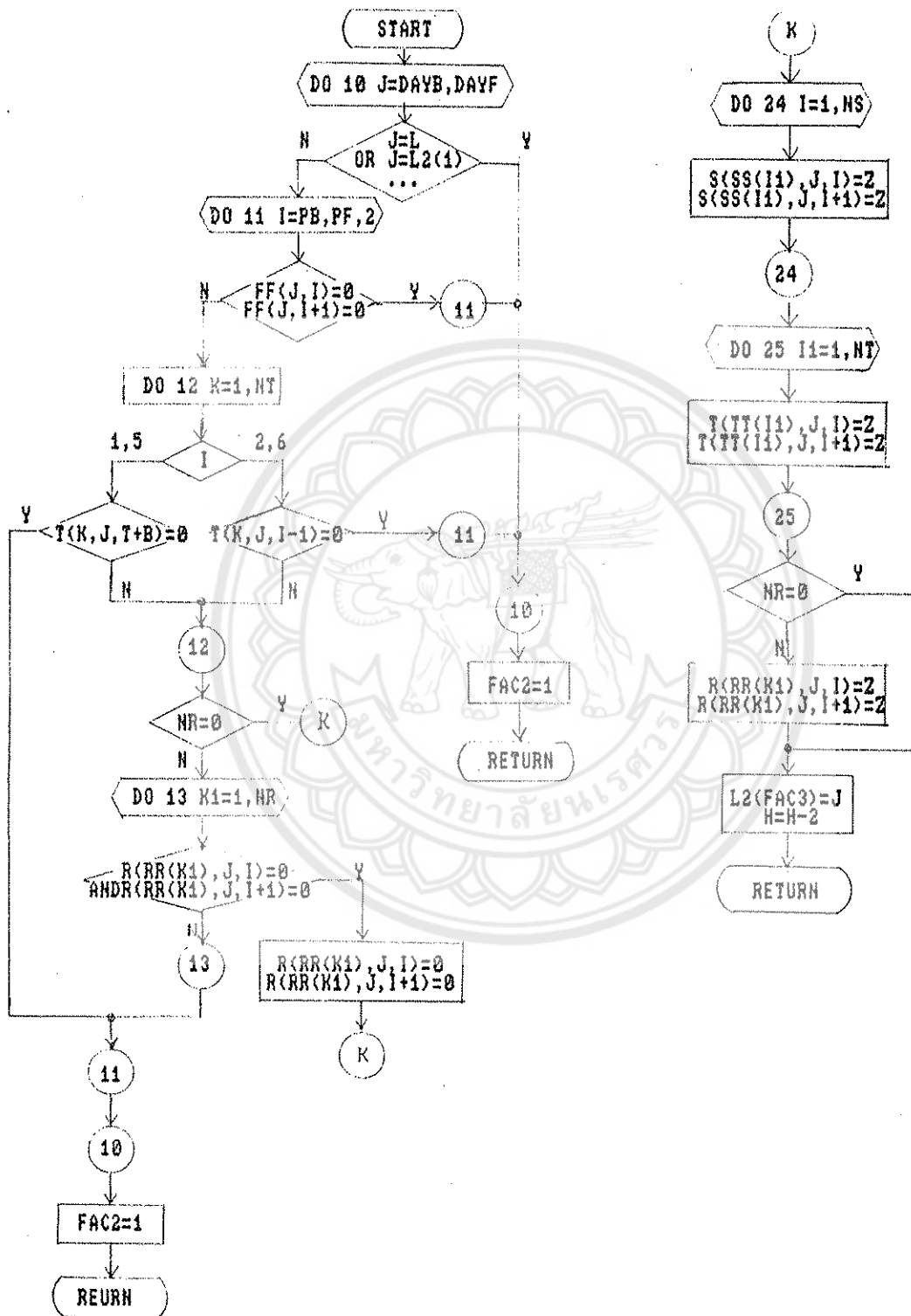
FLOWCHART SUBROUTINE CLUST3



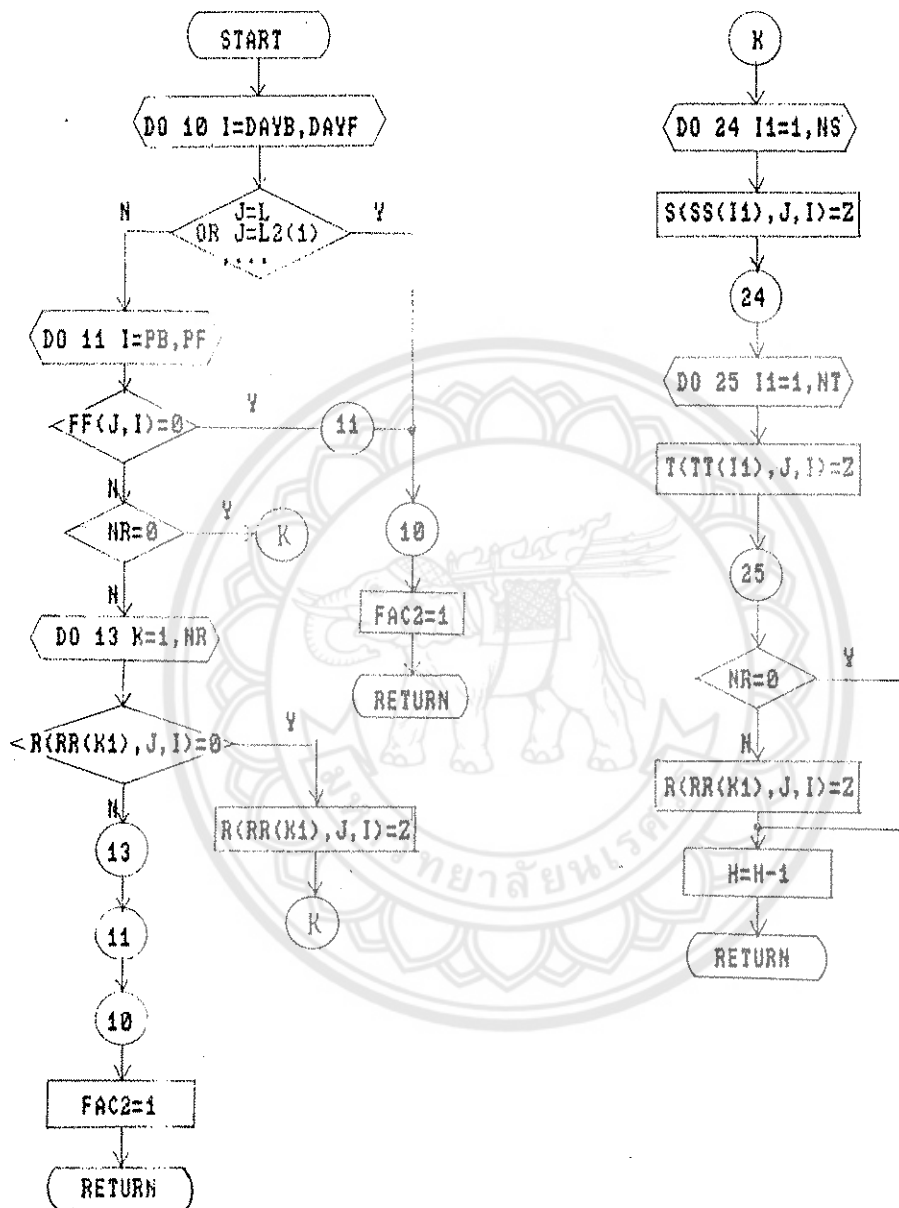


ภาพประกอบ 8 (ต่อ)

FLOWCHART SUBROUTINE CLUST2

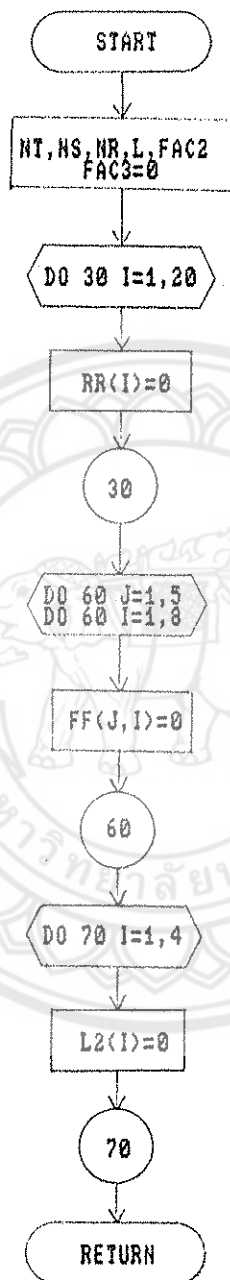


FLOWCHART SUBROUTINE CLUST1



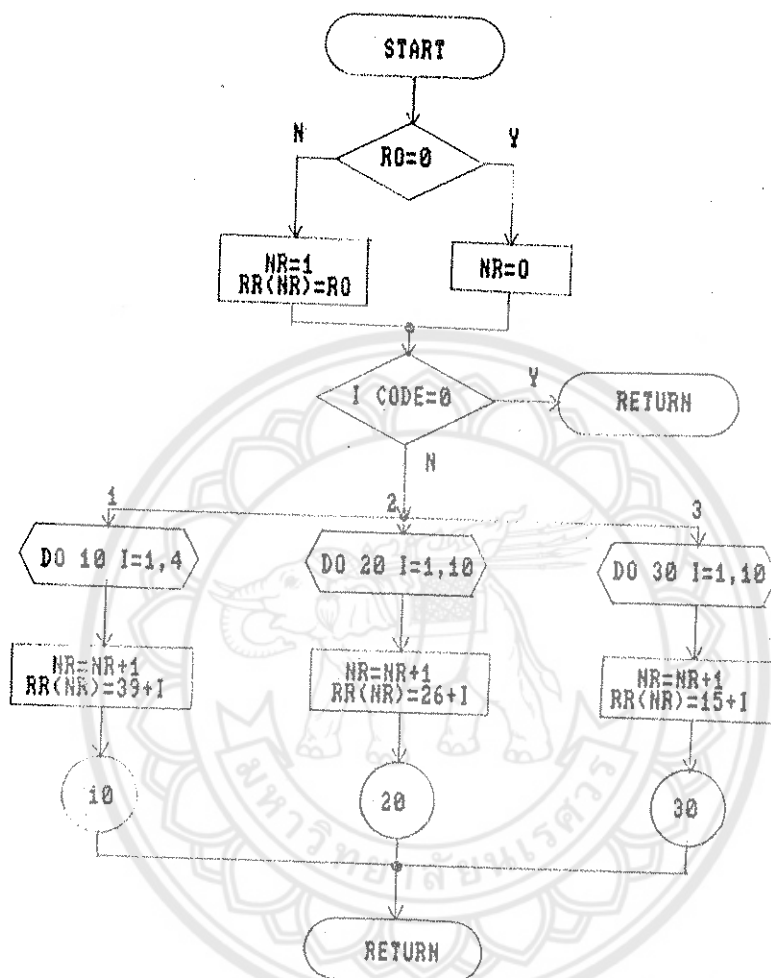
ภาพประกอบ 8 (ต่อ)

FLOWCHART SUBROUTINE CLEAR2



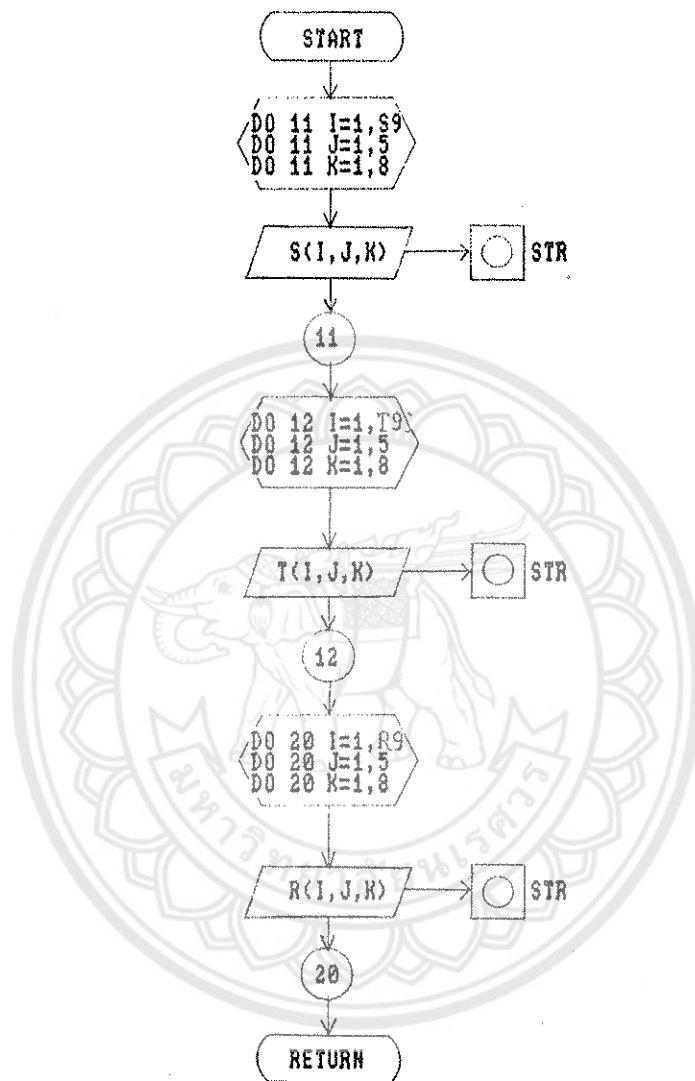
ภาพประกอบ 8 (ต่อ)

FLOWCHART SUBROUTINE ROOM



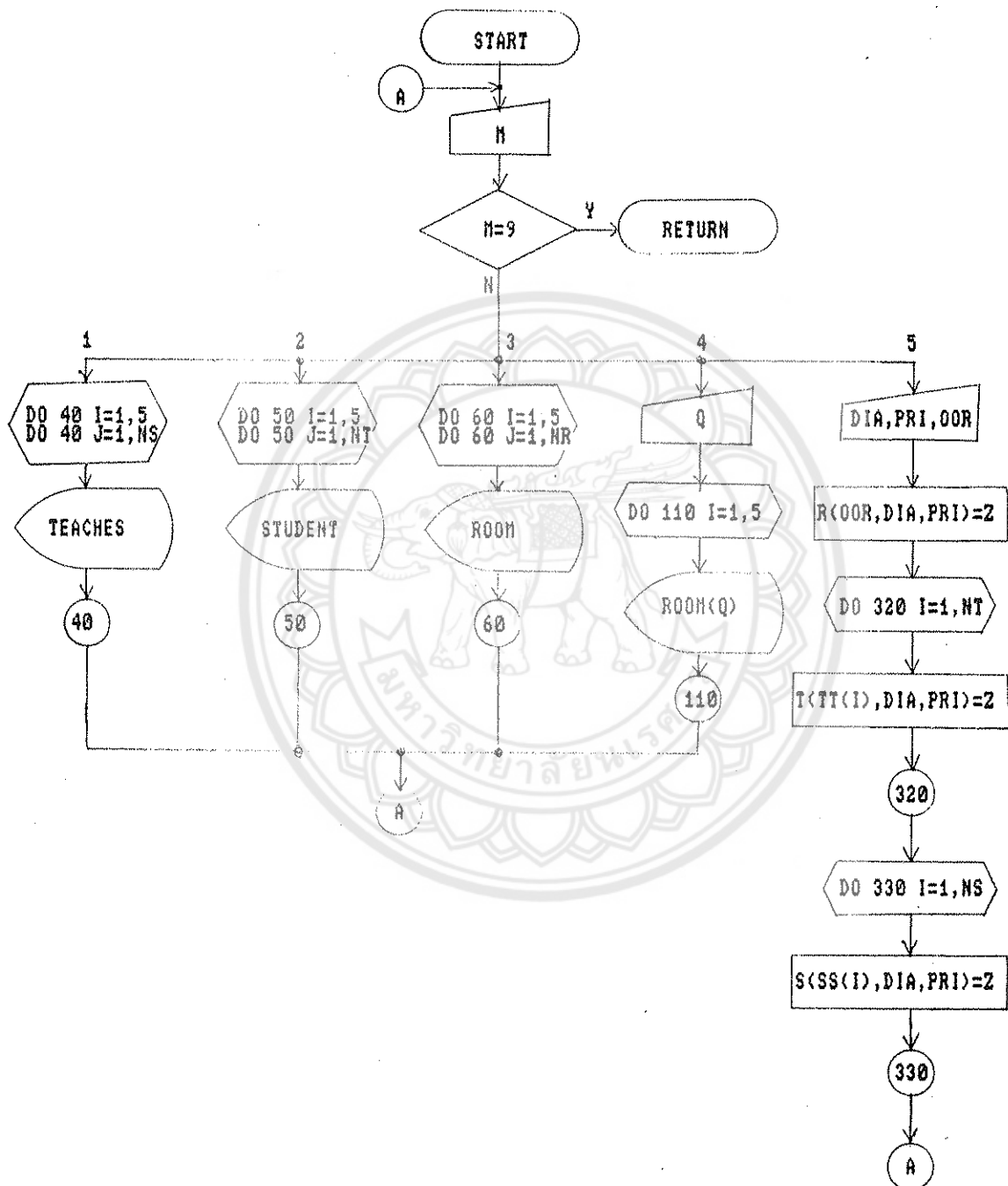
ภาพประกอบ 8 (ต่อ)

FLOWCHART SUBROUTINE RECORD



ภาพประกอบ 8 (ต่อ)

FLOWCHART SUBROUTINE CHANGE



```

1:*****
2: *****PROGRAM MANAGE**
3: *****
4:     IMPLICIT INTEGER (D-Z)
5:     CHARACTER CODE*5
6:     COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
7:     COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
8:     COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
9:     OPEN(1,FILE='T2')
10:    OPEN(2,FILE='STR')
11:    OPEN(3,FILE='TT')
12:    WRITE(*,500)
13: 500  FORMAT(' INPUT NUMBER OF STUDENT , TEACHER AND ROOM *3I* ',\ )
14:    READ(*,'(I3)') S9,T9,R9
15:    DO 31 K=1,S9
16:    DO 31 J=1,5
17:    DO 31 I=1,8
18:    READ(2,34) S(K,J,I)
19: 31  CONTINUE
20:    WRITE(*,60)
21: 60  FORMAT(' I am reading teacher in file STR')
22:    DO 32 K=1,T9
23:    DO 32 J=1,5
24:    DO 32 I=1,8
25:    READ(2,34) T(K,J,I)
26: 32  CONTINUE
27:    WRITE(*,61)
28: 61  FORMAT(' I am reading room in file STR')
29:    DO 33 K=1,R9
30:    DO 33 J=1,5
31:    DO 33 I=1,8
32:    READ(2,34) R(K,J,I)
33: 33  CONTINUE
34: 34  FORMAT(I3)
35:    WRITE(*,40)
36: 40  FORMAT(' I am running in file TT')
37:    DO 2 J=1,250
38:    READ(3,'(I3,3I1)') TE,DT,PIB,PIF
39:    IF (TE.EQ.999) GOTO 10
40:    DO 1 I=PIB,PIF
41:    1  T(TE,DT,I)=999
42:    2  CONTINUE
43: 10  CLOSE(3)

```

```

44: WRITE(*,20)
45: 20 FORMAT(' Input number of subject begin and final *2I3* '\)
46: READ(*,'(2I3)') M1,M2
47: IF (M1.EQ.1) GOTO 36
48: M3=M1-1
49: DO 35 I=1,M3
50: READ(1,'(I2)') H
51: 35 CONTINUE
52: 36 DO 100 Z=M1,M2
53: READ(1,30) H,CODE,SS(1),SS(2),SS(3),SS(4),SS(5),SS(6),SS(7),
54: 1SS(8),TT(1),TT(2),TT(3),TT(4),TT(5),DAYB,DAYF,PB,PF,FAC,ICODE,
55: 2RO
56: 30 FORMAT(1X,I1,A5,13I3,6I1,I3)
57: WRITE(*,200) H,CODE
58: 200 FORMAT(' HOUR = ',I2,' SUBJECT = ',A5)
59: 101 CALL CLEAR2
60: CALL MATCH
61: CALL ROOM
62:* IF (FAC.EQ.1) CALL CLUST3
63: IF (FAC2.EQ.1) GOTO 102
64: IF (H.EQ.0) GOTO 100
65: IF (H.EQ.1) GOTO 103
66: 104 FAC3=FAC3+1
67: WRITE(*,45) Z
68: 45 FORMAT(' I am running in CLUST2 of Z = ',I5)
69: CALL CLUST2
70: WRITE(*,120) FAC2
71: 120 FORMAT(' FAC2 = ',I3)
72: IF (FAC2.EQ.1) GOTO 102
73: IF (H.EQ.0) GOTO 100
74: IF (H.EQ.1) GOTO 103
75: GOTO 104
76: 103 WRITE(*,46) Z
77: 46 FORMAT(' I am runing in CLUST1 of Z = ',I5)
78: CALL CLUST1
79: IF (FAC2.EQ.0) GOTO 100
80: 102 WRITE(*,110) H,CODE,SS(1),SS(2),SS(3),SS(4),SS(5),SS(6),SS(7),
81: 1SS(8),TT(1),TT(2),TT(3),TT(4),TT(5),DAYB,DAYF,PB,PF,FAC,ICODE,
82: 2RO
83: 110 FORMAT(' Hour = ',I1,/, ' Subject = ',A5,/, ' STUDENT = ',8I3,/,
84: 1' TEACHER = ',5I3,/, ' DDPFPR = ',6I1, ' ROOM = ',I3)
85: CALL CHANGE
86: 100 CONTINUE

```

```

87:      WRITE(*,47)
88:  47   FORMAT(' I am runing in RECORD')
89:      CALL RECORD
90:      CLOSE(1)
91:      CLOSE(2)
92:      STOP
93:      END
94: *****
95: *****Sub Match**
96: *****
97:      SUBROUTINE MATCH
98:      IMPLICIT INTEGER (D-Z)
99:      CHARACTER CODE*5
100:     COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
101:     COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
102:     COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
103:     DO 2 K=1,8
104:     IF (SS(K).EQ.0) GOTO 10
105:  2     NS=NS+1
106:  10    DO 3 K=1,5
107:    IF (TT(K).EQ.0) GOTO 20
108:  3     NT=NT+1
109:  20    DO 7 J=DAYB,DAYF
110:    DO 7 I=PB,PF
111:    IF ((I.GT.4).AND.(J.GT.4)) GOTO 11
112:    DO 8 K=1,NS
113:    IF (S(SS(K),J,I).NE.0) GOTO 7
114:  8     CONTINUE
115:    DO 9 K=1,NT
116:    IF (T(TT(K),J,I).NE.0) GOTO 7
117:  9     CONTINUE
118:    FF(J,I)=1
119:  7     CONTINUE
120:  11    RETURN
121:      END

```

```

122: SUBROUTINE CLUST3
123: IMPLICIT INTEGER (D-Z)
124: CHARACTER CODE*5
125: COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
126: COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
127: COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
128: WRITE(*,44) Z
129: 44 FORMAT(' I am runing in CLUST3 of Z = ',I5)
130: DO 10 J=DAYB,DAYF
131: DO 10 I=PB,PF
132: IF (I.EQ.3 .OR. I.EQ.4 .OR. I.EQ.7 .OR. I.EQ.8) GOTO 10
133: IF ((FF(J,I).EQ.0) .OR. (FF(J,I+1).EQ.0) .OR. (FF(J,I+2).EQ.0))
134: 1GOTO 10
135: DO 12 K=1,NT
136: IF(I.GT.2) I=I-4
137: GOTO (1,2) I
138: 1 IF (T(K,J,I+3).NE.0) GOTO 10
139: GOTO 12
140: 2 IF (T(K,J,I-1).NE.0) GOTO 10
141: 12 CONTINUE
142: IF (NR.EQ.0) GOTO 88
143: DO 13 K1=1,NR
144: IF ((R(RR(K1),J,I).EQ.0).AND.(R(RR(K1),J,I+1).EQ.0).AND.
145: 1(R(RR(K1),J,I+2).EQ.0)) GOTO 80
146: 13 CONTINUE
147: 10 CONTINUE
148: FAC2=1
149: RETURN
150: 80 R(RR(K1),J,I)=Z
151: R(RR(K1),J,I+1)=Z
152: R(RR(K1),J,I+2)=Z
153: WRITE(*,90) Z,RR(K1),J,I
154: 90 FORMAT(' Sequence = ',I4,' Room = ',I4,' Day = ',I2,' PI = ',I2)
155: 88 DO 24 I1=1,NS
156: S(SS(I1),J,I)=Z
157: S(SS(I1),J,I+1)=Z
158: 24 S(SS(I1),J,I+2)=Z
159: DO 25 I1=1,NT
160: T(TT(I1),J,I)=Z
161: T(TT(I1),J,I+1)=Z
162: 25 T(TT(I1),J,I+2)=Z
163: L=J
164: H=H-3
165: RETURN
166: END

```

```

167: SUBROUTINE CLUST2
168: IMPLICIT INTEGER (D-Z)
169: CHARACTER CODE*5
170: COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
171: COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
172: COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
173: DO 10 J=DAYB,DAYF
174: IF (J.EQ.L .OR. J.EQ.L2(1).OR.J.EQ.L2(2).OR.J.EQ.L2(3)) GOTO 10
175: DO 11 I=PB,PF,2
176: IF ((FF(J,I).EQ.0) .OR. (FF(J,I+1).EQ.0)) GOTO 11
177: DO 12 K=1,NT
178: IF (I.EQ.1 .OR. I.EQ.5) THEN
179: IF (T(K,J,I+2).NE.0) GOTO 11
180: GOTO 12
181: ELSE
182: IF (T(K,J,I-1).NE.0) GOTO 11
183: GOTO 12
184: ENDIF
185: 12 CONTINUE
186: IF (NR.EQ.0) GOTO 80
187: DO 13 K1=1,NR
188: IF ((R(RR(K1),J,I).EQ.0).AND.(R(RR(K1),J,I+1).EQ.0)) GOTO 80
189: 13 CONTINUE
190: 11 CONTINUE
191: 10 CONTINUE
192: FAC2=1
193: RETURN
194: 80 DO 24 I1=1,NS
195: S(SS(I1),J,I)=Z
196: 24 S(SS(I1),J,I+1)=Z
197: DO 25 I1=1,NT
198: T(TT(I1),J,I)=Z
199: 25 T(TT(I1),J,I+1)=Z
200: IF (NR.EQ.0) GOTO 88
201: R(RR(K1),J,I)=Z
202: R(RR(K1),J,I+1)=Z
203: WRITE(*,90) Z,RR(K1),J,I
204: 90 FORMAT(' Sequence =',I4,' Room =',I4,' Day =',I2,' PI =',I2)
205: 88 L2(FAC3)=J
206: H=H-2
207: RETURN
208: END

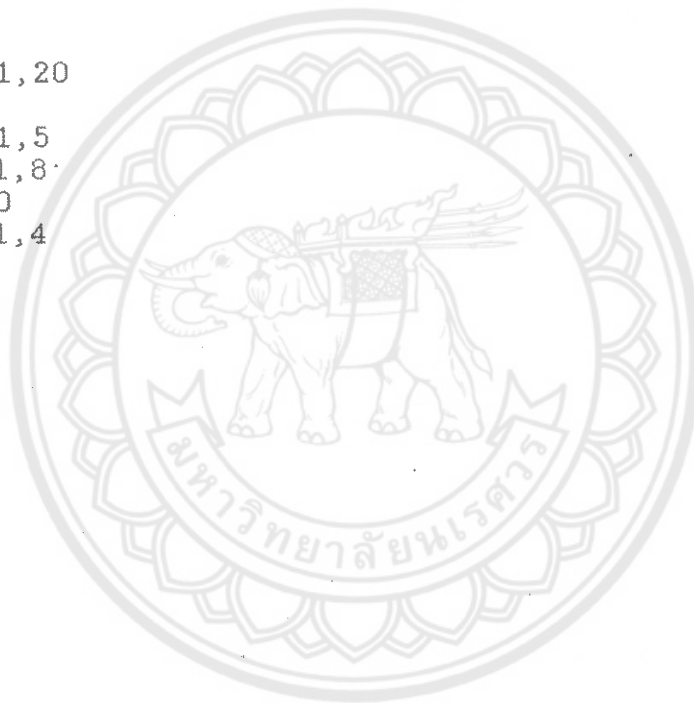
```

```

09: SUBROUTINE CLUST1
10: IMPLICIT INTEGER (D-Z)
11: CHARACTER CODE*5
12: COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
13: COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
14: COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
15: DO 10 J=DAYB,DAYF
16: IF (J.EQ.L .OR.J.EQ.L2(1).OR.J.EQ.L2(2).OR.J.EQ.L2(3).OR.J.EQ.
17: 1L2(4)) GOTO 10
18: DO 11 I=PB,PF
19: IF (FF(J,I).EQ.0) GOTO 11
20: IF (NR.EQ.0) GOTO 80
21: DO 13 K1=1,NR
22: IF (R(RR(K1),J,I).EQ.0) GOTO 80
23: 13 CONTINUE
24: 11 CONTINUE
25: 10 CONTINUE
26: FAC2=1
27: RETURN
28: 80 DO 24 I1=1,NS
29: 24 S(SS(I1),J,I)=Z
30: DO 25 I1=1,NT
31: 25 T(TT(I1),J,I)=Z
32: IF (NR.EQ.0) GOTO 88
33: R(RR(K1),J,I)=Z
34: WRITE(*,90) Z,RR(K1),J,I
35: 90 FORMAT(' Sequence =',I4,' Room =',I4,' Day =',I2,' PI =',I2)
36: 88 H=H-1
37: RETURN
38: END

```

```
239: *****
240: *****Sub Clear2**
241: *****
242:     SUBROUTINE CLEAR2
243:     IMPLICIT INTEGER (D-Z)
244:     CHARACTER CODE*5
245:     COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
246:     COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
247:     COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
248:     NS=0
249:     NT=0
250:     NR=0
251:     L=0
252:     FAC2=0
253:     FAC3=0
254:     DO 30 I=1,20
255: 30   RR(I)=0
256:     DO 60 J=1,5
257:     DO 60 I=1,8
258: 60   FF(J,I)=0
259:     DO 70 I=1,4
260: 70   L2(I)=0
261:     RETURN
262:     END
```



```

263: *****
264: *****Sub Room**
265: *****
266: SUBROUTINE ROOM
267: IMPLICIT INTEGER (D-Z)
268: CHARACTER CODE*5
269: COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
270: COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
271: COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
272: IF(RO.EQ.0) THEN
273:     NR=0
274: ELSE
275:     NR=1
276:     RR(NR)=RO
277: ENDIF
278: IF (ICODE.EQ.0) GOTO 4
279: GOTO (1,2,3,4) ICODE
280: 1 DO 10 I=1,4
281:   NR=NR+1
282:   RR(NR)=39+I
283: 10 CONTINUE
284:   GOTO 4
285: 2 DO 20 I=1,10
286:   NR=NR+1
287:   RR(NR)=26+I
288: 20 GOTO 4
289: 3 DO 30 I=1,10
290:   NR=NR+1
291:   RR(NR)=15+I
292: 4 RETURN
293: END

```

```

294: SUBROUTINE RECORD
295: IMPLICIT INTEGER (D-Z)
296: CHARACTER CODE*5
297: COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
298: COMMON FF(5,8),H,NS,NT,DAYB,DAYF,S9,T9,R9
299: COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
300: OPEN(1,FILE='STR',STATUS='NEW')
301: DO 11 I=1,S9
302: DO 11 J=1,5
303: DO 11 K=1,8
304: WRITE(1,21) S(I,J,K)
305: 11 CONTINUE
306: WRITE(*,22)
307: 22 FORMAT(' I am record in teacher')
308: DO 12 I=1,T9
309: DO 12 J=1,5
310: DO 12 K=1,8
311: WRITE(1,21) T(I,J,K)
312: 12 CONTINUE
313: WRITE(*,23)
314: 23 FORMAT(' I am record in room')
315: DO 20 I=1,R9
316: DO 20 J=1,5
317: DO 20 K=1,8
318: WRITE(1,21) R(I,J,K)
319: 20 CONTINUE
320: 21 FORMAT(I3)
321: CLOSE(1)
322: RETURN
323: END
324: *****
325: *****Sub Change**
326: *****
327: SUBROUTINE CHANGE
328: IMPLICIT INTEGER (D-Z)
329: CHARACTER CODE*5
330: COMMON S(120,5,8),T(150,5,8),R(60,5,8),SS(8),TT(5),RR(20)
331: COMMON FF(5,8),H,NS,NT,DAYB,DAYF
332: COMMON PB,PF,FAC,Z,ICODE,RO,L,NR,L2(4),FAC2,FAC3,NO
333: 10 WRITE(*,20)

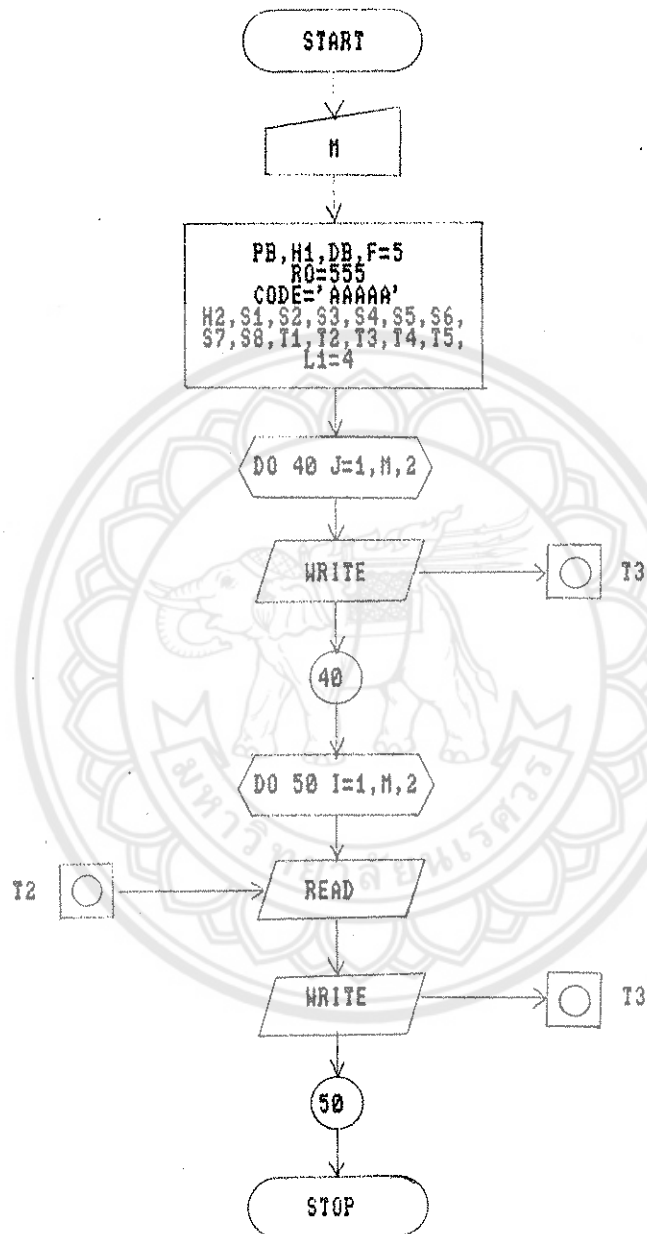
```

```

20  FORMAT('...1...Display Teacher',/, '...2...Display Student',/,
1'...3...Display Room',/, '...4...Read Room',/, '...5...Record',
2/, ' Select 1 - 4 if = 9 program continue *I1* ',\ )
    READ(*, '(I1)') M
    IF (M.EQ.9) GOTO 340
    GOTO (30,50,70,100,300) M
30  DO 40 I=1,5
    DO 40 J=1,NT
    WRITE(*, '(9I5)') I, T(TT(J), I, 1), T(TT(J), I, 2), T(TT(J), I, 3), T(TT
1(J), I, 4), T(TT(J), I, 5), T(TT(J), I, 6), T(TT(J), I, 7), T(TT(J), I, 8)
40  CONTINUE
    GOTO 10
50  DO 60 I=1,5
    DO 60 J=1,NS
    WRITE(*, '(9I5)') I, S(SS(J), I, 1), S(SS(J), I, 2), S(SS(J), I, 3), S(SS
1(J), I, 4), S(SS(J), I, 5), S(SS(J), I, 6), S(SS(J), I, 7), S(SS(J), I, 8)
60  CONTINUE
    GOTO 10
70  DO 80 I=1,5
    DO 80 J=1,NR
    WRITE(*, '(9I5)') I, R(RR(J), I, 1), R(RR(J), I, 2), R(RR(J), I, 3), R(RR
1(J), I, 4), R(RR(J), I, 5), R(RR(J), I, 6), R(RR(J), I, 7), R(RR(J), I, 8)
80  CONTINUE
    GOTO 10
100 WRITE(*, 120)
120  FORMAT(' Input number of Room *I3*', \ )
    READ(*, '(I3)') Q
    DO 110 I=1,5
    WRITE(*, '(9I5)') I, R(RR(Q), I, 1), R(RR(Q), I, 2), R(RR(Q), I, 3), R(RR
1(Q), I, 4), R(RR(Q), I, 5), R(RR(Q), I, 6), R(RR(Q), I, 7), R(RR(Q), I, 8)
110 CONTINUE
    GOTO 10
300 WRITE(*, 310)
310  FORMAT('...Input DAY, PRI, ROOM..2I1, I3..', \ )
    READ(*, '(2I1, I3)') DIA, PRI, OOR
    R(OOR, DIA, PRI)=Z
    DO 320 I=1,NT
320  T(TT(I), DIA, PRI)=Z
    DO 330 I=1,NS
330  S(SS(I), DIA, PRI)=Z
    GOTO 10
340  RETURN
    END

```

ภาพประกอบ 9 FLOWCHART PROGRAM DIREC

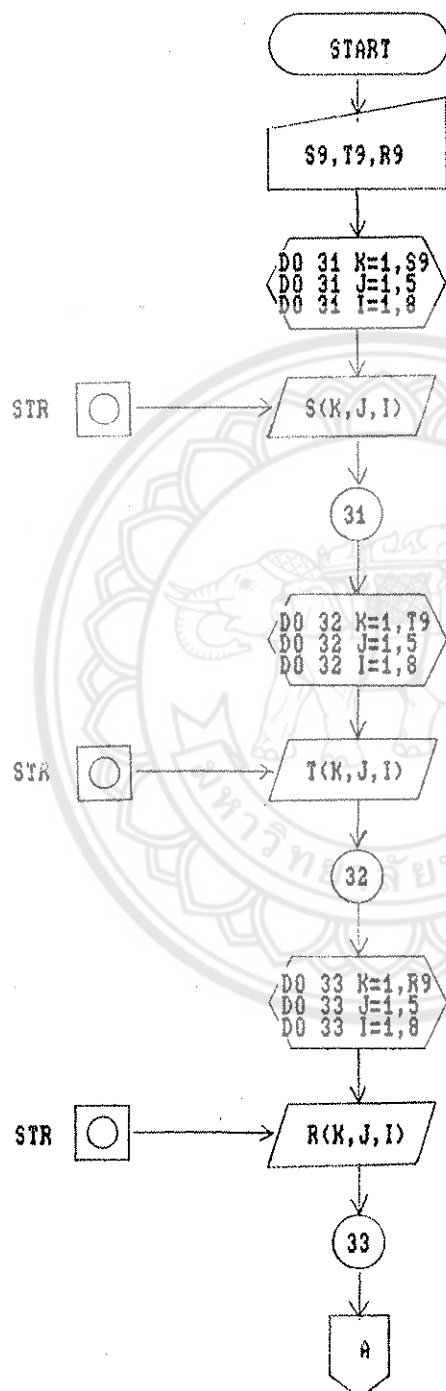


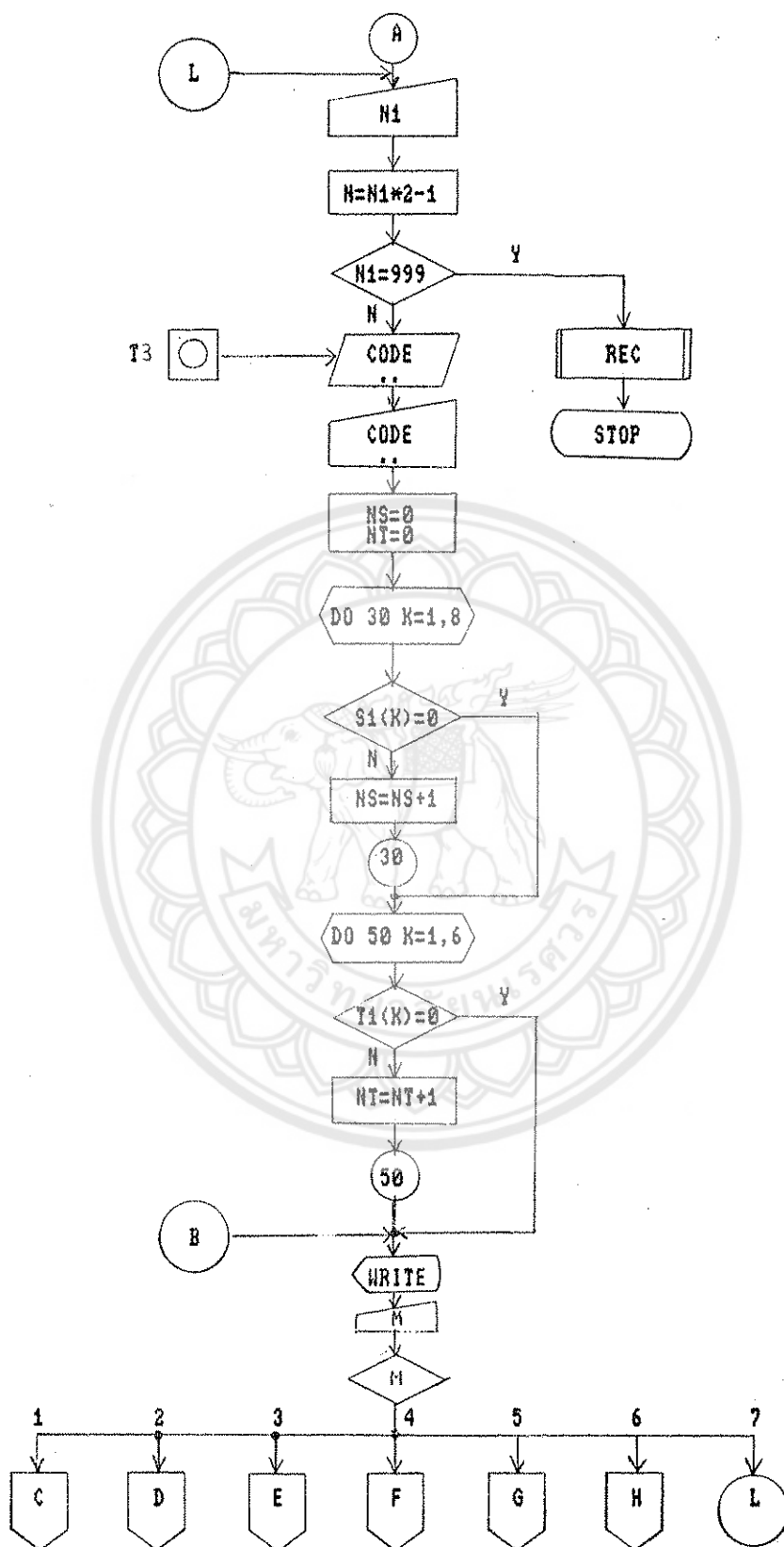
```

1:*****
2: *****PROGRAM DIREC**
3: *****
4:     IMPLICIT INTEGER (D-Z)
5:     CHARACTER CODE*5
6:     OPEN(1,FILE='T2')
7:     OPEN(4,FILE=' ',STATUS='NEW',ACCESS='DIRECT',
8: 1FORM='UNFORMATTED',RECL=58)
9:     WRITE(*,10)
10: 10    FORMAT(' Input how many record *I3* ',\ )
11:     READ(*,'(I3)') M
12:     H1=5
13:     H2=4
14:     CODE='AAAAA'
15:     S1=4
16:     S2=4
17:     S3=4
18:     S4=4
19:     S5=4
20:     S6=4
21:     S7=4
22:     S8=4
23:     T1=4
24:     T2=4
25:     T3=4
26:     T4=4
27:     T5=4
28:     DB=5
29:     DF=4
30:     PB=5
31:     PF=4
32:     F=5
33:     I1=4
34:     RO=555
35:     DO 40 J=1,M,2
36:     WRITE(4,REC=J) H1,H2,CODE,S1,S2,S3,S4,S5,S6,S7,S8
37:     WRITE(4,REC=J+1) T1,T2,T3,T4,T5,DB,DF,PB,PF,F,I1,RO
38: 40    CONTINUE
39:     DO 50 I=1,M,2
40:     READ(1,60) H1,H2,CODE,S1,S2,S3,S4,S5,S6,S7,S8,T1,T2,T3,T4,
41: 1T5,DB,DF,PB,PF,F,I1,RO
42:     WRITE(4,REC=I) H1,H2,CODE,S1,S2,S3,S4,S5,S6,S7,S8
43:     WRITE(4,REC=I+1) T1,T2,T3,T4,T5,DB,DF,PB,PF,F,I1,RO
44: 60    FORMAT(2I1,A5,13I3,6I1,I3)
45: 50    CONTINUE
46:     CLOSE(1)
47:     CLOSE(4)
48:     STOP
49:     END

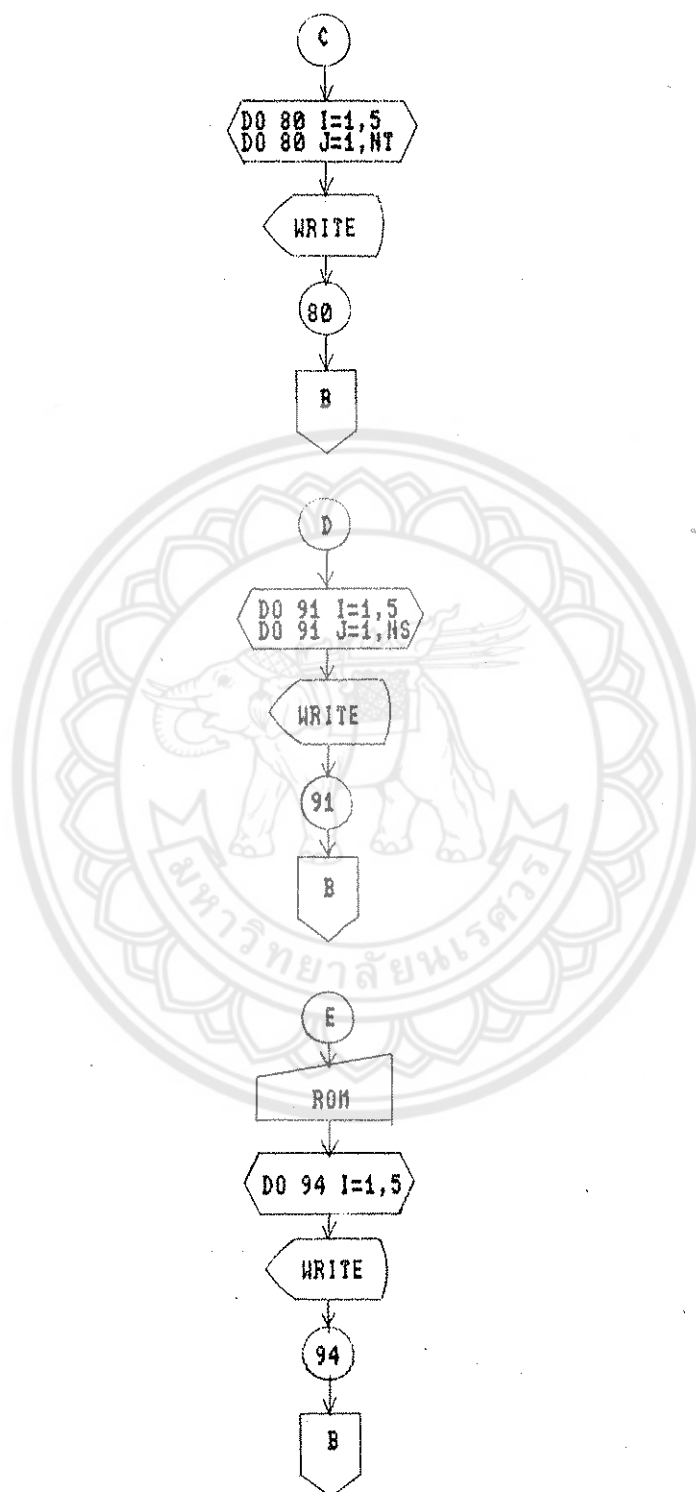
```

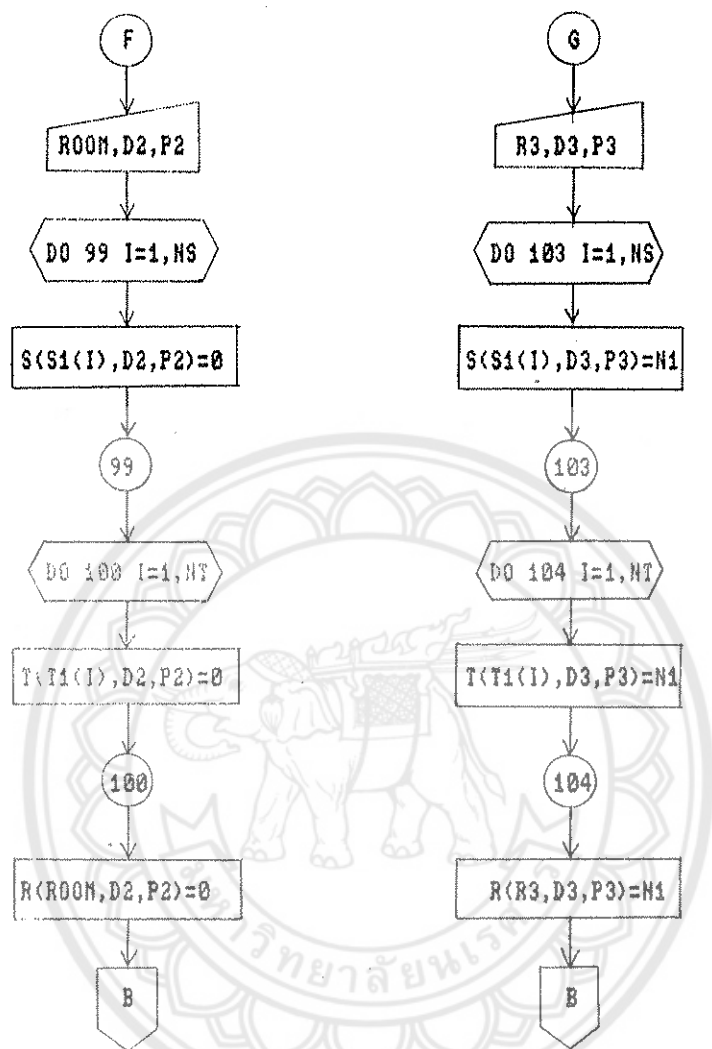
แบบฝึกหัดที่ 10 FLOWCHART PROGRAM MANAGE2



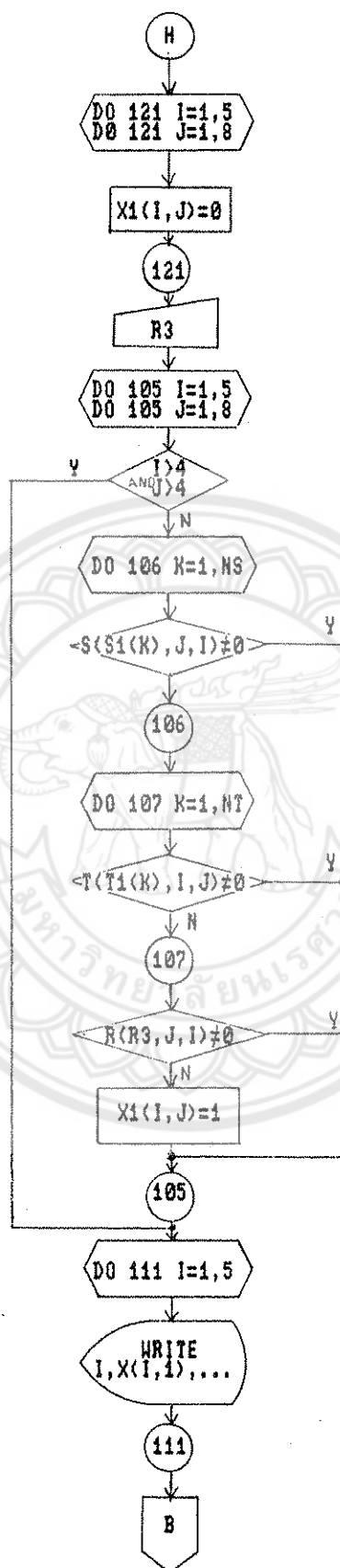


ภาพประกอบ 10 (ต่อ)

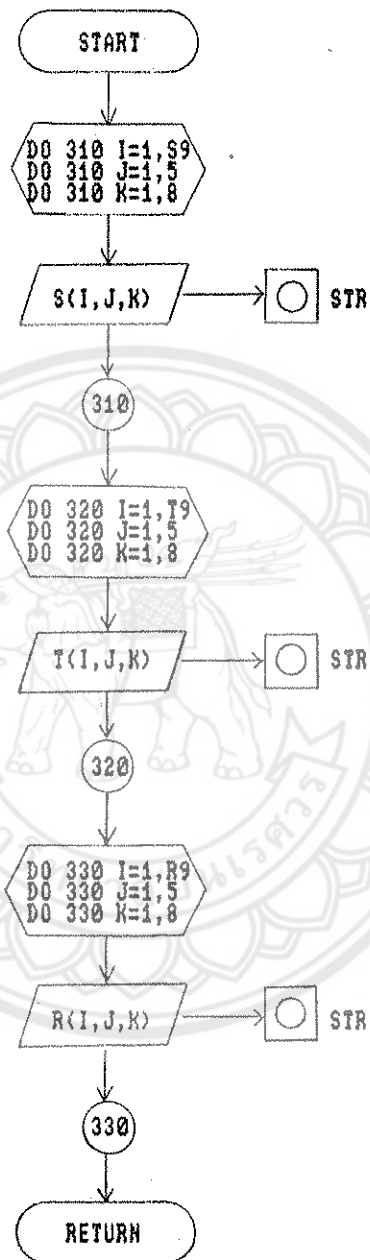




ภาพประกอบ 10 (ต่อ)



FLOWCHART SUBROUTINE REC



ภาพประกอบ 10 (ต่อ)

```

1:*****
2: *****PROGRAM MANAGE2**
3: *****
4:     IMPLICIT INTEGER (D-Z)
5:     CHARACTER CODE*5
6:     COMMON S(120,5,8),T(150,5,8),R(60,5,8),S9,T9,R9
7:     DIMENSION S1(8),T1(5),X1(5,8)
8:     OPEN(2,FILE='STR')
9:     OPEN(4,FILE='T3',STATUS='OLD',ACCESS='DIRECT',
10:    1FORM='UNFORMATTED',RECL=58)
11:     WRITE(*,99)
12: 99    FORMAT(' INPUT NUMBER STUDENT , TEACHER , ROOM *3I3* ',\ )
13:     READ(*,'(3I3)') S9,T9,R9
14:     DO 31 K=1,S9
15:     DO 31 J=1,5
16:     DO 31 I=1,8
17:     READ(2,34) S(K,J,I)
18: 31    CONTINUE
19:     WRITE(*,60)
20: 60    FORMAT(' I AM RUNNING IN T')
21:     DO 32 K=1,T9
22:     DO 32 J=1,5
23:     DO 32 I=1,8
24:     READ(2,34) T(K,J,I)
25: 32    CONTINUE
26:     WRITE(*,61)
27: 61    FORMAT(' I am running in R')
28:     DO 33 K=1,R9
29:     DO 33 J=1,5
30:     DO 33 I=1,8
31:     READ(2,34) R(K,J,I)
32: 33    CONTINUE
33: 34    FORMAT(I3)
34: 15    WRITE(*,10)
35: 10    FORMAT(' Input number of record *I3* if = 999 stop ??? ',\ )
36:     READ(*,'(I3)') N1
37:     N=N1*2-1
38:     IF (N1.EQ.999) GOTO 300
39:     READ(4,REC=N) H1,H2,CODE,S1(1),S1(2),S1(3),S1(4),S1(5),S1(6),
40:     1S1(7),S1(8)
41:     READ(4,REC=N+1) T1(1),T1(2),T1(3),T1(4),T1(5),DB,DF,PB,PF,F,
42:     1I1,RO

```

```

43: WRITE (*,20) H1,H2,CODE,S1(1),S1(2),S1(3),S1(4),S1(5),S1(6),
44: 1S1(7),S1(8),T1(1),T1(2),T1(3),T1(4),T1(5),DB,DF,PB,PF,F,I1,RO
45: 20 FORMAT(' CH=',2I1,' CODE=',A5,' S=',8I3,' T=',5I3,' DDPF=',
46: 16I1,I3,\)
47: NS=0
48: NT=0
49: DO 30 K=1,8
50: IF (S1(K).EQ.0) GOTO 40
51: 30 NS=NS+1
52: 40 DO 50 K=1,6
53: IF (T1(K).EQ.0) GOTO 70
54: 50 NT=NT+1
55: 70 WRITE(*,65)
56: 65 FORMAT(' DIREC FILE MANU',/, '(1)Teacher', '(2)Student',
57: 1' (3)Room',/, '(4)Delect', '(5)Record', '(6)Match',
58: 2' (7)Queit', '.....SELECTION !1-7....*I1* ',\))
59: READ(*,'(I1)') M
60: GOTO (71,72,73,74,75,76,200) M
61: 71 DO 80 I=1,5
62: DO 80 J=1,NT
63: WRITE(*,'(9I5)') I,T(T1(J),I,1),T(T1(J),I,2),T(T1(J),I,3),T(T1
64: 1(J),I,4),T(T1(J),I,5),T(T1(J),I,6),T(T1(J),I,7),T(T1(J),I,8)
65: 80 CONTINUE
66: GOTO 70
67: 72 DO 91 I=1,5
68: DO 91 J=1,NS
69: WRITE(*,'(9I5)') I,S(S1(J),I,1),S(S1(J),I,2),S(S1(J),I,3),S(S1
70: 1(J),I,4),S(S1(J),I,5),S(S1(J),I,6),S(S1(J),I,7),S(S1(J),I,8)
71: 91 CONTINUE
72: GOTO 70
73: 73 WRITE(*,92)
74: 92 FORMAT(' Input number of Room *I3* ',\))
75: READ(*,'(I3)') ROM
76: DO 94 I=1,5
77: WRITE(*,'(9I5)') I,R(ROM,I,1),R(ROM,I,2),R(ROM,I,3),R(ROM,I,4)
78: 1,R(ROM,I,5),R(ROM,I,6),R(ROM,I,7),R(ROM,I,8)
79: 94 CONTINUE
80: GOTO 70
81: 74 WRITE(*,95)
82: 95 FORMAT(' DELECT- Input ROOM, Day, Piriod *3I1* ',\))
83: READ(*,'(I3,2I1)') ROOM,D2,P2

```

```

84:      DO 99 I=1,NS
85:  99    S(S1(I),D2,P2)=0
86:      DO 100 I=1,NT
87:  100    T(T1(I),D2,P2)=0
88:      R(ROOM,D2,P2)=0
89:      GOTO 70
90:  75    WRITE(*,102)
91:  102    FORMAT(' Input ROOM, DAY, PIRIOD *I3*2I1* ',\ )
92:      READ(*,'(I3,2I1)') R3,D3,P3
93:      DO 103 I=1,NS
94:  103    S(S1(I),D3,P3) = N1
95:      DO 104 I=1,NT
96:  104    T(T1(I),D3,P3) = N1
97:      R(R3,D3,P3) = N1
98:      GOTO 70
99:  76    DO 121 I=1,5
100:      DO 121 J=1,8
101:  121    X1(I,J)=0
102:      WRITE(*,120)
103:  120    FORMAT(' Input number ROOM match *I3* ',\ )
104:      READ(*,'(I3)') R3
105:      DO 105 I=1,5
106:      DO 105 J=1,8
107:      IF ((I.GT.4).AND.(J.GT.4)) GOTO 110
108:      DO 106 K=1,NS
109:      IF (S(S1(K),I,J).NE.0) GOTO 105
110:  106    CONTINUE
111:      DO 107 K=1 NT
112:      IF (T(T1(K),I,J).NE.0) GOTO 105
113:  107    CONTINUE
114:      IF (R(R3,I,J).NE.0) GOTO 105
115:      X1(I,J)=1
116:  105    CONTINUE
117:  110    DO 111 I=1,5
118:      WRITE(*,'(9I5)') I,X1(I,1),X1(I,2),X1(I,3),X1(I,4),X1(I,5),
119:      1X1(I,6),X1(I,7),X1(I,8)
120:  111    CONTINUE
121:      GOTO 70
122:  200    GOTO 15
123:  300    CALL REC
124:      STOP
125:      END

```

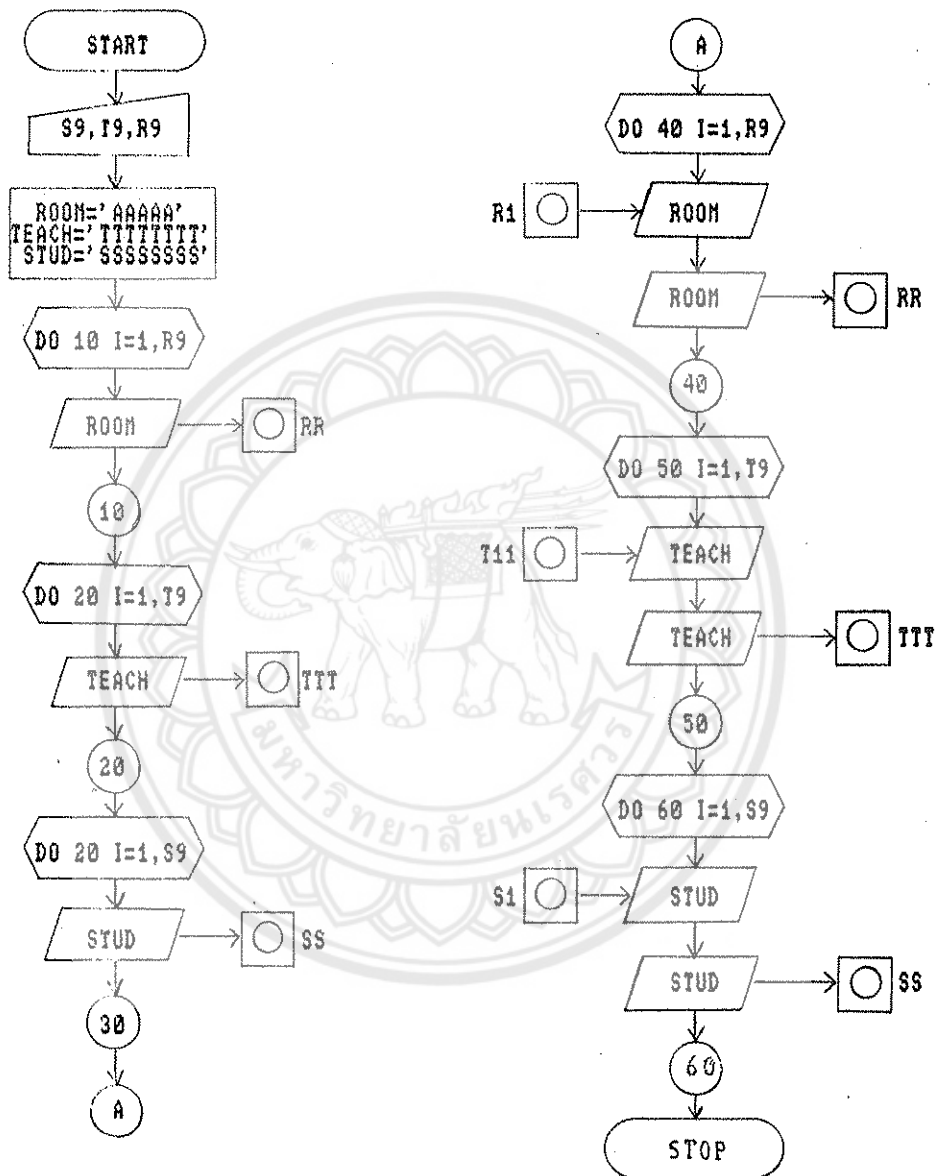
*

```

126:      SUBROUTINE REC
127:      IMPLICIT INTEGER (D-Z)
128:      CHARACTER CODE*5
129:      COMMON S(120,5,8),T(150,5,8),R(60,5,8),S9,T9,R9
130:      OPEN(1,FILE='STR',STATUS='NEW')
131:      WRITE(*,290)
132: 290    FORMAT(' I am running in record student')
133:      DO 310 I=1,S9
134:      DO 310 J=1,5
135:      DO 310 K=1,8
136:      WRITE(1,10) S(I,J,K)
137: 310    CONTINUE
138:      WRITE(*,131)
139: 131    FORMAT(' I am running in record teacher')
140:      DO 320 I=1,T9
141:      DO 320 J=1,5
142:      DO 320 K=1,8
143:      WRITE(1,10) T(I,J,K)
144: 320    CONTINUE
145:      WRITE(*,132)
146: 132    FORMAT(' I am running in record room')
147:*    DO 330 I=1,R9
148:      DO 330 J=1,5
149:      DO 330 K=1,8
150:      WRITE(1,10) R(I,J,K)
151: 330    CONTINUE
152: 10     FORMAT(I3)
153:      RETURN
154:      END

```

ภาพประกอบ 11 FLOWCHART PROGRAM DIREC2

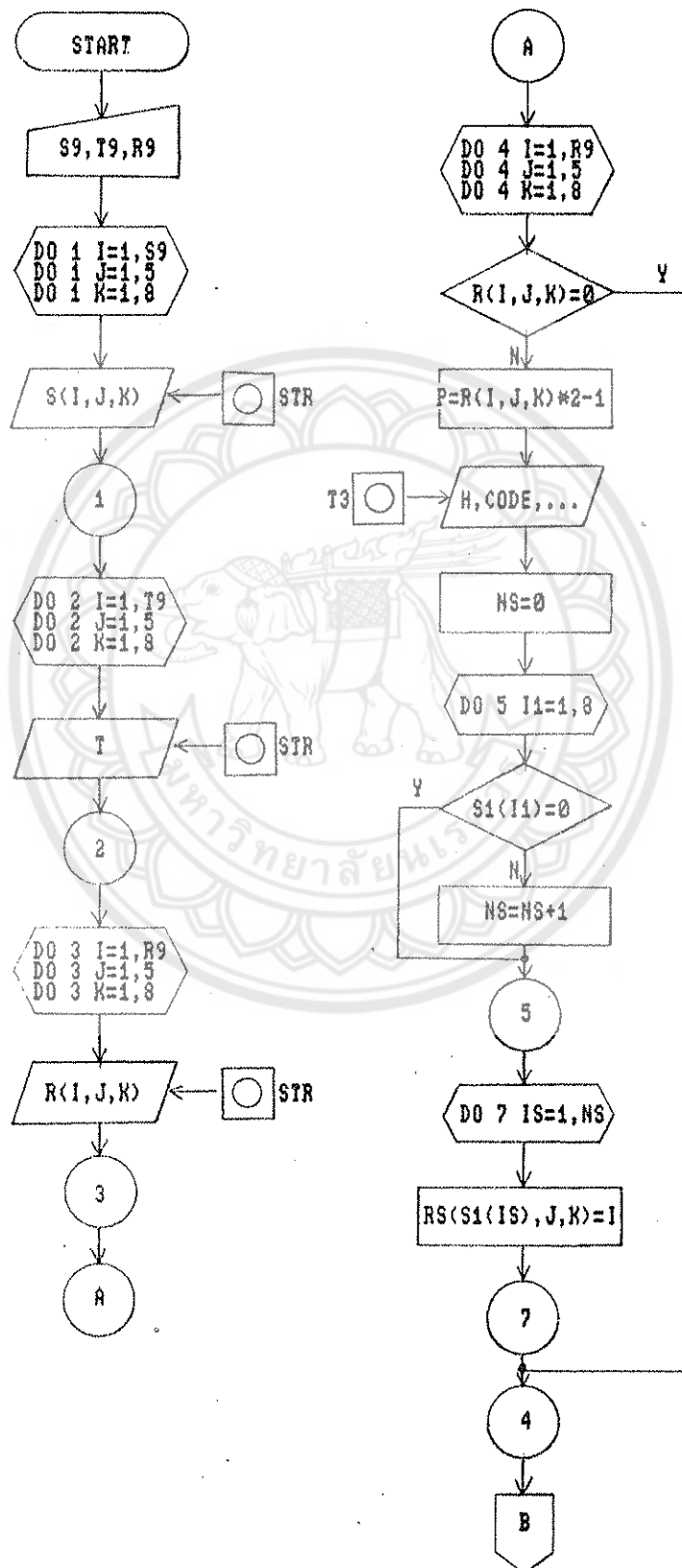


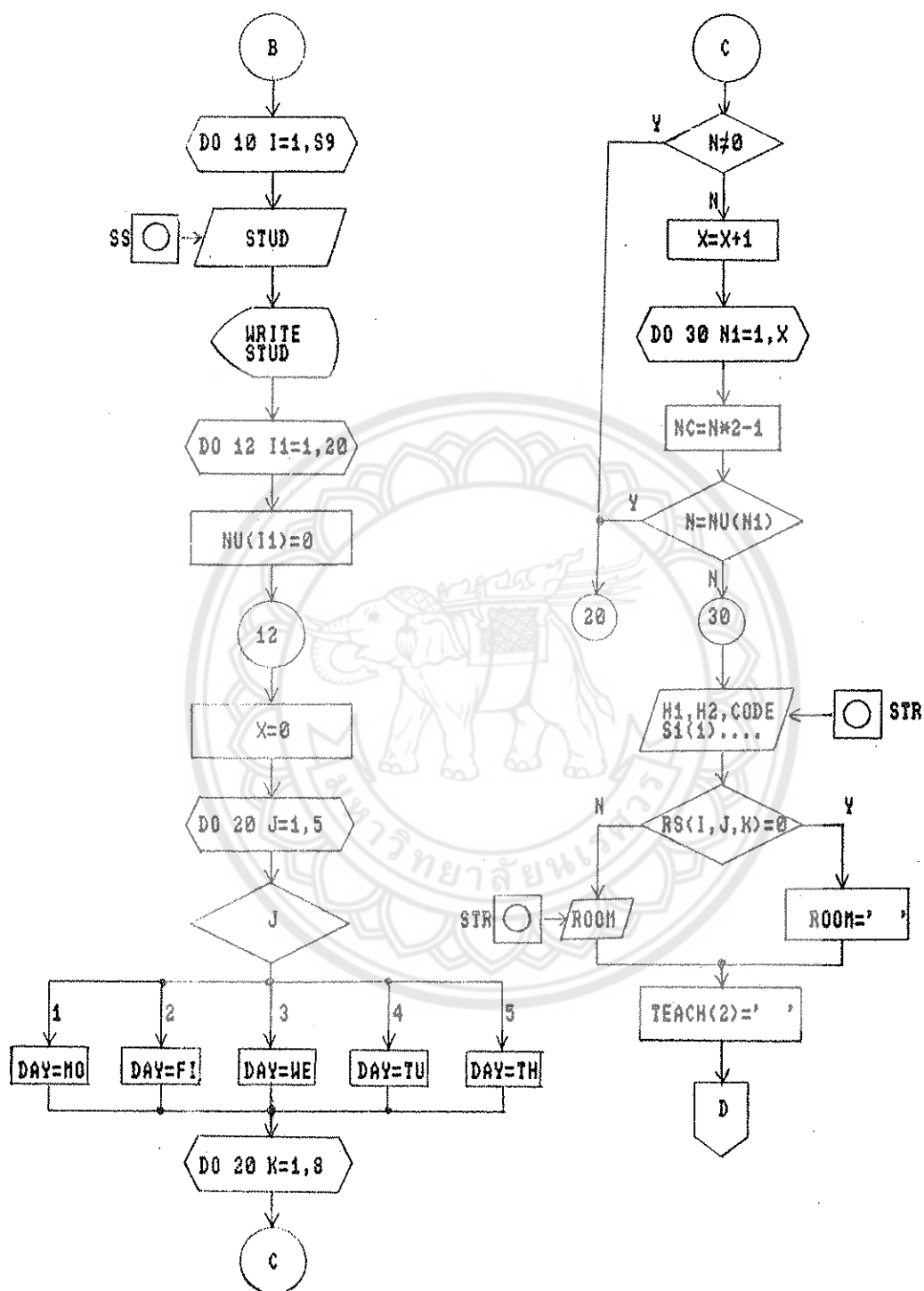
```

1:*****
2: *****PROGRAM DIREC2**
3: *****
4:     CHARACTER ROOM*5,TEACH*8,STUD*8
5:     OPEN(1,FILE='R1')
6:     OPEN(2,FILE='T11')
7:     OPEN(3,FILE='S1')
8:     OPEN(4,FILE='RR',STATUS='NEW',ACCESS='DIRECT',
9:     1FORM='UNFORMATTED',RECL=8)
10:    OPEN(5,FILE='TTT',STATUS='NEW',ACCESS='DIRECT',
11:    1FORM='UNFORMATTED',RECL=11)
12:    OPEN(6,FILE='SS',STATUS='NEW',ACCESS='DIRECT',
13:    1FORM='UNFORMATTED',RECL=11)
14:    WRITE(*,5)
15:  5  FORMAT(' INPUT NUMBER STUDENT TEACHER ROOM *3I3* ',\ )
16:    READ(*,'(3I3)') S9,T9,R9
17:    ROOM='AAAAA'
18:    TEACH='TTTTTTTT'
19:    STUD='SSSSSSSS'
20:    DO 10 I=1,R9
21:    WRITE(4,REC=I) ROOM
22:  10  CONTINUE
23:    DO 20 I=1,T9
24:    WRITE(5,REC=I) TEACH
25:  20  CONTINUE
26:    DO 30 I=1,S9
27:    WRITE(6,REC=I) STUD
28:  30  CONTINUE
29:    DO 40 I=1,R9
30:    READ(1,'(A5)') ROOM
31:    WRITE(4,REC=I) ROOM
32:  40  CONTINUE
33:    DO 50 I=1,T9
34:    READ(2,'(A8)') TEACH
35:    WRITE(5,REC=I) TEACH
36:  50  CONTINUE
37:    DO 60 I=1,S9
38:    READ(3,'(A8)') STUD
39:    WRITE(6,REC=I) STUD
40:  60  CONTINUE
41:    CLOSE(1)
42:    CLOSE(2)
43:    CLOSE(3)
44:    CLOSE(4)
45:    CLOSE(5)
46:    CLOSE(6)
47:    STOP
48:    END

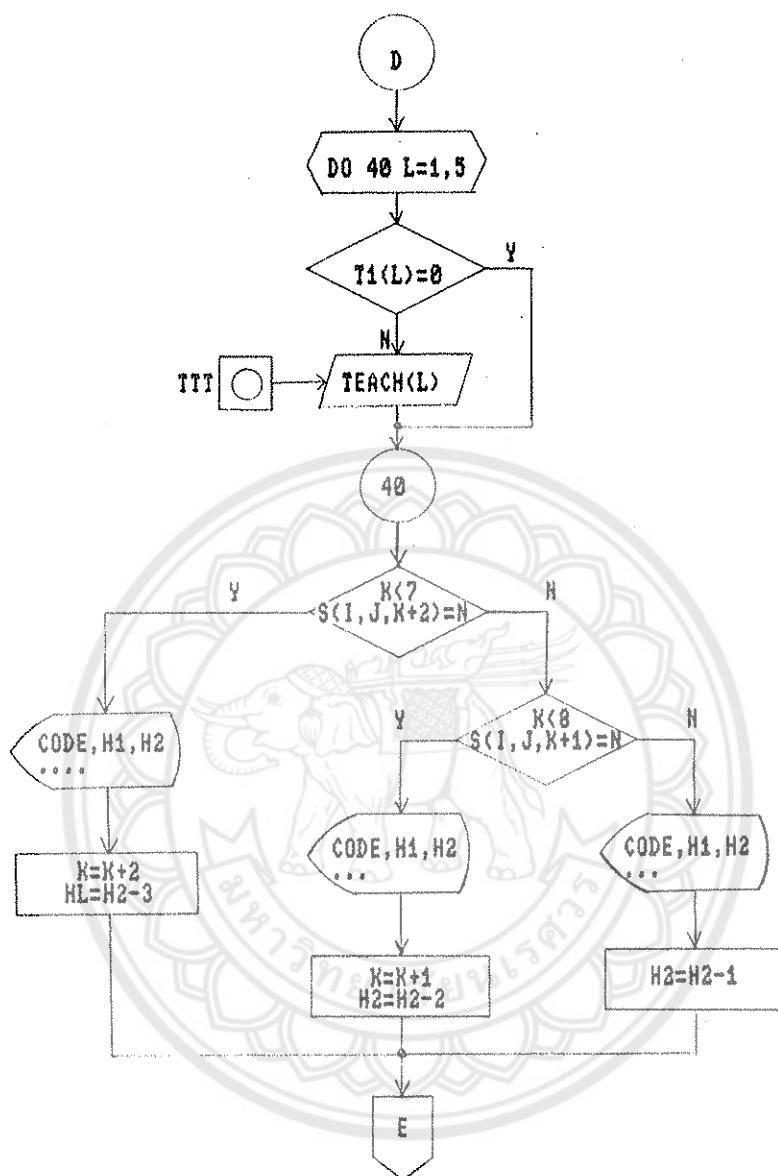
```

ภาพประกอบ 12 FLOWCHART PROGRAM REPORT

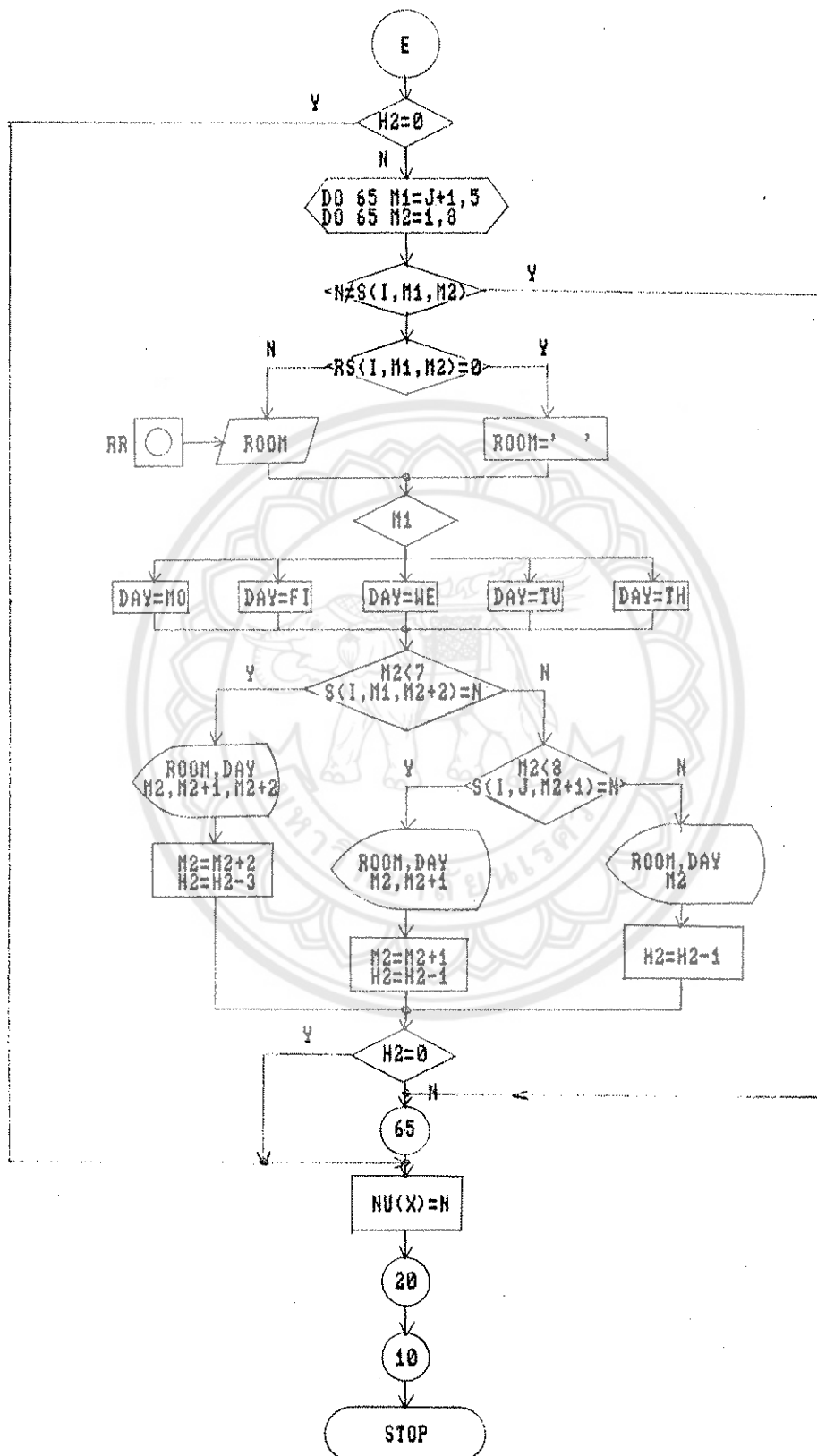


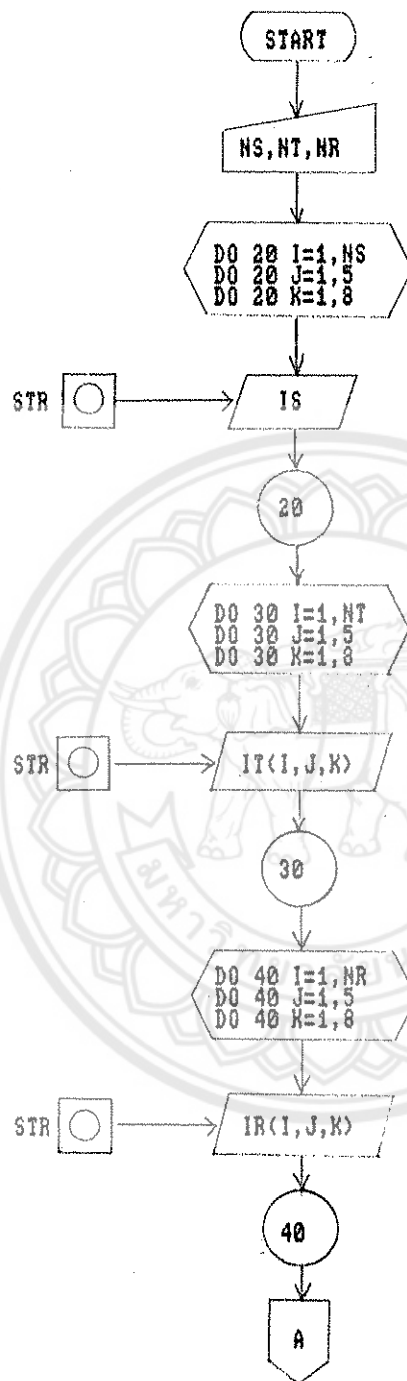


ภาพประกอบ 12 (ต่อ)

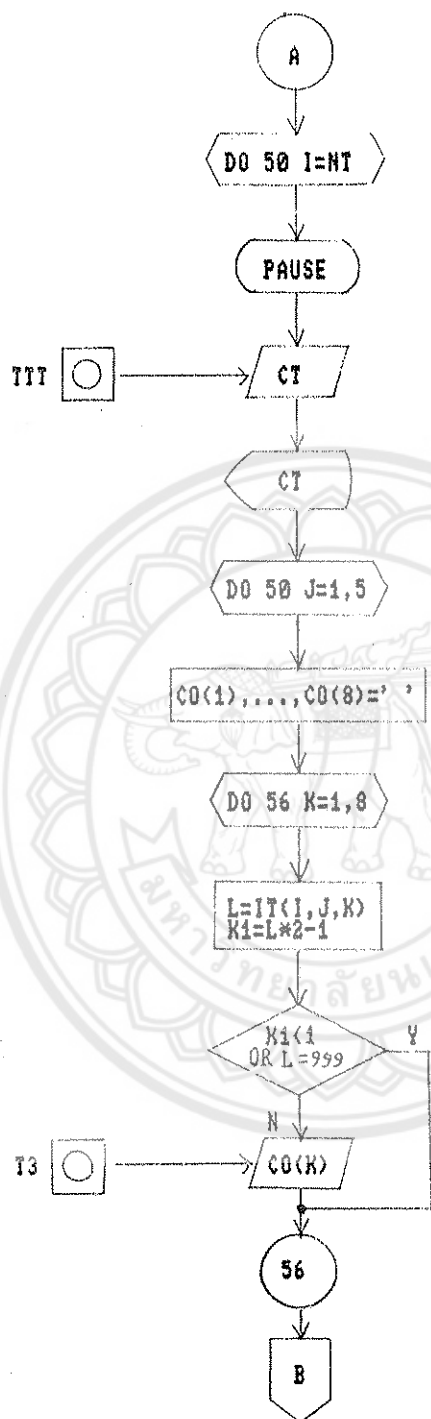


ภาพประกอบ 12 (ต่อ)

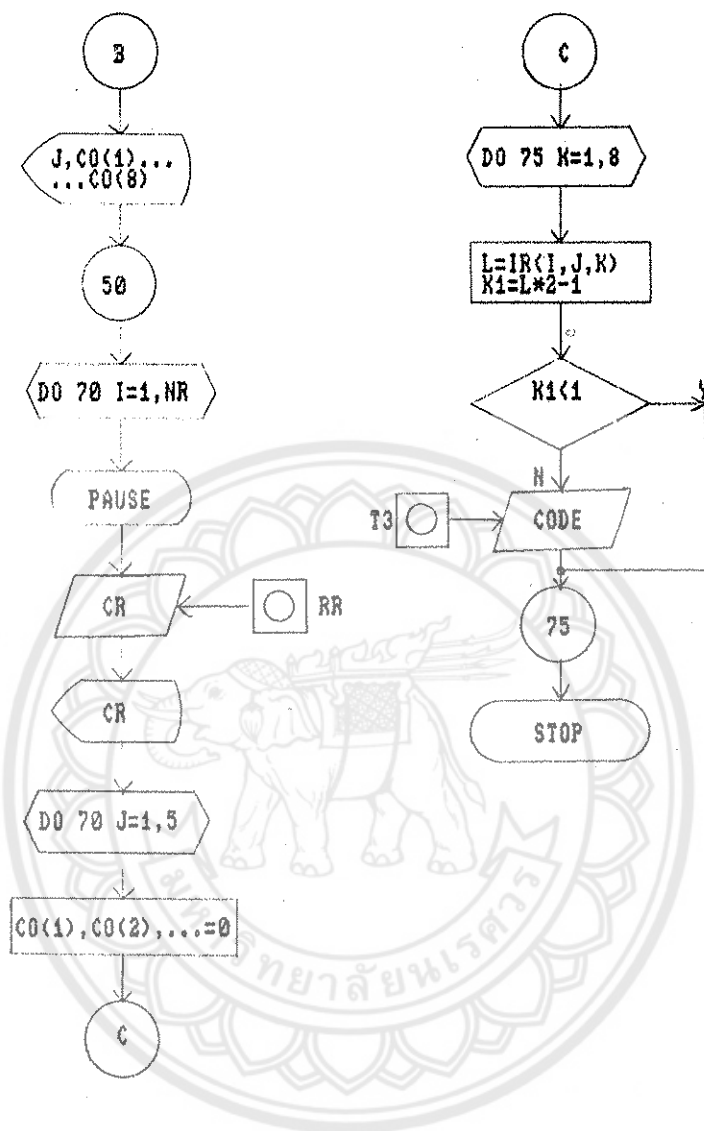




ภาพประกอบ 12 (ต่อ)



ภาพประกอบ 12 (ต่อ)



ภาพประกอบ 12 (ต่อ)

```

1:*****
2: *****PROGRAM REPORT**
3: *****
4:     IMPLICIT INTEGER (D-Z)
5:     CHARACTER CODE*5, DAY*2, ROOM*5, TEACH(5)*8, STUD*8, DA*2
6:     DIMENSION S(92,5,8), R(45,5,8), RS(92,5,8)
7:     DIMENSION NU(20), S1(8), T1(5)
8:     OPEN(1, FILE='STR')
9:     OPEN(2, FILE='T3', STATUS='OLD', ACCESS='DIRECT',
0: 1FORM='UNFORMATTED', RECL=58)
1:     OPEN(3, FILE='RR', STATUS='OLD', ACCESS='DIRECT',
2: 1FORM='UNFORMATTED', RECL=8)
3:     OPEN(4, FILE='TTT', STATUS='OLD', ACCESS='DIRECT',
4: 1FORM='UNFORMATTED', RECL=11)
5:     OPEN(5, FILE='SS', STATUS='OLD', ACCESS='DIRECT',
6: 1FORM='UNFORMATTED', RECL=11)
7:     WRITE(*,8)
8: 8   FORMAT(' INPUT NUMBER STUDENT, TEACHER, ROOM *3I3* ',\))
9:     READ(*, '(3I3)') S9, T9, R9
0:     DO 1 I=1, S9
1:     DO 1 J=1, 5
2:     DO 1 K=1, 8
3:     READ(1, '(I3)') S(I, J, K)
4: 1   CONTINUE
5:     DO 2 I=1, T9
6:     DO 2 J=1, 5
7:     DO 2 K=1, 8
8:     READ(1, '(I3)') T
9: 2   CONTINUE
0:     DO 3 I=1, R9
1:     DO 3 J=1, 5
2:     DO 3 K=1, 8
3:     READ(1, '(I3)') R(I, J, K)
4: 3   CONTINUE
5:     DO 4 I=1, R9
6:     WRITE(*,9) I
7: 9   FORMAT(' I am running in ROOM = ', I2)
8:     DO 4 J=1, 5
9:     DO 4 K=1, 8
0:     IF (R(I, J, K).EQ.0) GOTO 4
1:     P=R(I, J, K)*2-1
2:     READ(2, REC=P) H1, H2, CODE, S1(1), S1(2), S1(3), S1(4), S1(5), S1(6),
3: 1S1(7), S1(8)

```

```

4:      NS=0
5:      DO 5 I1=1,8
6:      IF (S1(I1).EQ.0) GOTO 5
7:      NS=NS+1
8:      5  CONTINUE
9:      DO 7 IS=1,NS
10:     7  RS(S1(IS),J,K)=I
11:     4  CONTINUE
12:     DO 10 I=1,S9
13:     READ(*,'(I1)') LI
14:     READ(5,REC=I) STUD
15:     WRITE(*,11) STUD
16:     WRITE(*,31)
17: 31    FORMAT(/,'-----',
18: 1/, ' | SUBJECT | C/H | ROOM | PERIOD |      TEACHER ',/,
19: 2'-----')
20: 11    FORMAT(20X,A8)
21:     DO 12 I1=1,20
22:     NU(I1)=0
23:     X=0
24:     DO 20 J=1,5
25:     GOTO (21,22,23,24,25) J
26: 21    DAY='MO'
27:     GOTO 26
28: 22    DAY='FI'
29:     GOTO 26
30: 23    DAY='WE'
31:     GOTO 26
32: 24    DAY='TU'
33:     GOTO 26
34: 25    DAY='TH'
35: 26    DO 20 K=1,8
36:     N=S(I,J,K)
37:     IF (N.EQ.0) GOTO 20
38:     X=X+1
39:     DO 30 N1=1,X
40:     NC=N*2-1
41:     IF (N.EQ.NU(N1)) GOTO 20
42: 30    CONTINUE
43:     READ(2,REC=NC) H1,H2,CODE,S1(1),S1(2),S1(3),S1(4),S1(5),S1(6),
44: 1S1(7),S1(8)
45:     READ(2,REC=NC+1) T1(1),T1(2),T1(3),T1(4),T1(5),DB,DF,PB,PF,F,

```

```

111,RO
  IF (RS(I,J,K).EQ.0) THEN
    ROOM='
    GOTO 41
  ENDIF
  READ(3,REC=RS(I,J,K)) ROOM
41  TEACH(2)='
  TEACH(3)='
  TEACH(4)='
  TEACH(5)='
  DO 40 L=1,5
    IF (T1(L).EQ.0) GOTO 50
    READ(4,REC=T1(L)) TEACH(L)
40  CONTINUE
50  IF ((K.LT.7).AND.(S(I,J,K+2).EQ.N)) THEN
    WRITE(*,60) CODE,H1,H2,ROOM,DAY,K,K+1,K+2,TEACH(1),TEACH(2),
1TEACH(3),TEACH(4),TEACH(5)
    K=K+2
    H2=H2-3
  ELSE
    IF ((K.LT.8).AND.(S(I,J,K+1).EQ.N)) THEN
      WRITE(*,61) CODE,H1,H2,ROOM,DAY,K,K+1,TEACH(1),TEACH(2),
1TEACH(3),TEACH(4),TEACH(5)
      K=K+1
      H2=H2-2
    ELSE
      WRITE(*,62) CODE,H1,H2,ROOM,DAY,K,TEACH(1),TEACH(2),
1TEACH(3),TEACH(4),TEACH(5)
      H2=H2-1
    ENDIF
  ENDIF
  IF (H2.EQ.0) GOTO 70
  DO 65 M1=J+1,5
  DO 65 M2=1,8
  IF (N.NE.S(I,M1,M2)) GOTO 65
  IF (RS(I,M1,M2).EQ.0) THEN
    ROOM='
    GOTO 90
  ENDIF
  READ(3,REC=RS(I,M1,M2)) ROOM
90  GOTO (71,72,73,74,75) M1
71  DA='MO'
  GOTO 76
72  DA='FI'
  GOTO 76
73  DA='WE'
  GOTO 76
74  DA='TU'
  GOTO 76
75  DA='TH'

```

```

76 IF ((M2.LT.7).AND.(S(I,M1,M2+2).EQ.N)) THEN
    WRITE(*,66) ROOM,DA,M2,M2+1,M2+2
    M2=M2+2
    H2=H2-3
ELSE
    IF ((M2.LT.8).AND.(S(I,M1,M2+1).EQ.N)) THEN
        WRITE(*,67) ROOM,DA,M2,M2+1
        M2=M2+1
        H2=H2-2
    ELSE
        WRITE(*,68) ROOM,DA,M2
        H2=H2-1
    ENDIF
ENDIF
IF (H2.EQ.0) GOTO 70
60  FORMAT(' ',A5,' ',I1,'/',I1,' ',A5,' ',A2,3I1,' ',
15A8)
61  FORMAT(' ',A5,' ',I1,'/',I1,' ',A5,' ',A2,2I1,' ',
15A8)
62  FORMAT(' ',A5,' ',I1,'/',I1,' ',A5,' ',A2,I1,' ',
15A8)
66  FORMAT(' ',5X,' ',1X,'/',1X,' ',A5,' ',A2,3I1,' ')
67  FORMAT(' ',5X,' ',1X,'/',1X,' ',A5,' ',A2,2I1,' ')
68  FORMAT(' ',5X,' ',1X,'/',1X,' ',A5,' ',A2,I1,' ')
65  CONTINUE
70  NU(X)=N
20  CONTINUE
10  CONTINUE
    STOP
    END

```

```

1:* CHARACTER CO(8)*5,CT*8,CR*5
2: DIMENSION IT(150,5,8),IR(60,5,8)
3: OPEN(1,FILE = 'STR')
4: OPEN(2,FILE = 'T3',STATUS='OLD',ACCESS='DIRECT',
5: 1FORM='UNFORMATTED',RECL=58)
6: OPEN(3,FILE = 'TTT',STATUS='OLD',ACCESS='DIRECT',
7: 1FORM='UNFORMATTED',RECL=11)
8: OPEN(4,FILE = 'RR',STATUS='OLD',ACCESS='DIRECT',
9: 1FORM='UNFORMATTED',RECL=8)
10: WRITE(*,10)
11: 10 FORMAT(' INPUT NUMBER STUDENT TEACHER *3I3* ',\ )
12: READ(*,'(3I3)') NS,NT,NR
13: DO 20 I=1,NS
14: DO 20 J=1,5
15: DO 20 K=1,8
16: READ(1,'(I3)') IS
17: 20 CONTINUE
18: DO 30 I=1,NT
19: DO 30 J=1,5
20: DO 30 K=1,8
21: READ(1,'(I3)') IT(I,J,K)
22: 30 CONTINUE
23: DO 40 I=1,NR
24: DO 40 J=1,5
25: DO 40 K=1,8
26: READ(1,'(I3)') IR(I,J,K)
27: 40 CONTINUE
28: DO 50 I=1,NT
29: PAUSE
30: READ(3,REC=I) CT
31: WRITE(*,'(25X,A8)') CT
32: WRITE(*,55)
33: 55 FORMAT(' -----
34: 1'---',/, ' | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ',
35: 2' 8 |',/, ' -----',
36: 3'----')
37: DO 50 J=1,5
38: CO(1)= '
39: CO(2)= '
40: CO(3)= '
41: CO(4)= '
42: CO(5)= '
43: CO(6)= '
44: CO(7)= '
45: CO(8)= '

```

```

DO 56 K=1,8
L=IT(I,J,K)
K1=L*2-1
IF ((K1.LT.1).OR.(L.EQ.999)) GOTO 56
READ(2,REC=K1) H1,H2,CO(K),S1,S2,S3,S4,S5,S6,S7,S8
56 CONTINUE
WRITE(*,60) J,CO(1),CO(2),CO(3),CO(4),CO(5),CO(6),CO(7),CO(8)
60 FORMAT(' | ',I1,' | ',A5,' | ',A5,' | ',A5,' | ',A5,' | ',A5,
1 ' | ',A5,' | ',A5,' | ')
50 CONTINUE
DO 70 I=1,NR
PAUSE
READ(4,REC=I) CR
WRITE(*,'(25X,A5)') CR
WRITE(*,55)
DO 70 J=1,5
CO(1)= '
CO(2)= '
CO(3)= '
CO(4)= '
CO(5)= '
CO(6)= '
CO(7)= '
CO(8)= '
DO 75 K=1,8
L=IR(I,J,K)
K1=L*2-1
* IF (K1.LT.1) GOTO 75
READ(2,REC=K1) H1,H2,CO(K),S1,S2,S3,S4,S5,S6,S7,S8
75 CONTINUE
WRITE(*,60) J,CO(1),CO(2),CO(3),CO(4),CO(5),CO(6),CO(7),CO(8)
70 CONTINUE
STOP
END

```



[illegible]

ตัวอย่างแฟ้มข้อมูลรายวิชาที่เปิดสอน (T1)

*

1:*001458
2: 001258
3: 002418
4: 002518
5: 003458
6: 004458
7: 005418
8: 005518
9: 007458
10: 013514
11: 019158
12: 023258
13: 023134
14: 023412
15: 023334
16: 024258
17: 025258
18: 026358
19: 026258
20: 027458
21: 027258
22: 028258
23: 029258
24: 030458
25: 030358
26: 030258
27: 031258
28: 032258
29: 044358
30: 045358
31: 054458
32: 054358
33: 062458
34: 064458
35: 065458
36: 065358
37: 066458
38: 067458
39: 068458
40: 069458
41: 070458
42: 073514
43: 074514
44: 075514
45: 075418

ตัวอย่างแฟ้มข้อมูลอาจารย์ (TT)

1:*SC MATH1
 2: SC PHIC1
 3: SC CHEM1
 4: SC BIO 1
 5: SC GEO 1
 6: ART HIS1
 7: ART TH 1
 8: ART EN 1
 9: ED ART 1
 10: ED SC 1
 11: SC MATH2
 12: SC PHIC2
 13: SC CHEM2
 14: SC BIO 2
 15: SC GEO 2
 16: ART HIS2
 17: ART TH 2
 18: ART EN 2
 19: ED MATH2
 20: ED CHEM2
 21: ED EN 2
 22: ED TH 2
 23: ED TEC 2
 24: ED SO 2
 25: SC MATH3
 26: SC PH 3
 27: SC BIO 3
 28: SC GEO 3
 29: ART HI 3
 30: ART TH 3
 31: ART EN 3
 32: ED MAT 3
 33: ED CH 3
 34: ED BIO 3
 35: ED SC 3
 36: ED EN 3
 37: ED TH 3
 38: ED TEC 3
 39: ED GU 3
 40: ED GUT 3
 41: ED TECT3
 42: ED TOMT3
 43: ED SOT 3
 44: ED UTT 3
 45: ED PIC 3

ตัวอย่างแฟ้มข้อมูลกลุ่มผู้เรียน (S1)

*

1:*KANJANA1
 2: DUTSADE2
 3: MALIVAN3
 4: VILAT 4
 5: SEVAI 5
 6: CISSTOF6
 7: MALEE 7
 8: NEW3 8
 9: PLICEE 9
 10: NEW1 10
 11: NEW2 11
 12: NUTCHA12
 13: PRATIP13
 14: SUPALU14
 15: SANGNA15
 16: WITANA16
 17: TACACI17
 18: VALAI 18
 19: PRAJAK19
 20: AUMNAT20
 21: AKALIN21
 22: SOMPON22
 23: KAMON 23
 24: JUTA 24
 25: TITIMA25
 26: NIPON 26
 27: PAJECT27
 28: PUNPON28
 29: VALA 29
 30: VANID 30
 31: SNOM 31
 32: KANJA 32
 33: PAISE 33
 34: RANG 34
 35: VITSA 35
 36: PUNYA 36
 37: BUNCHI37
 38: BUNLIT38
 39: TANA 39
 40: VIPA 40
 41: KEECHA41
 42: VIMA 42
 43: BUPA 43
 44: KONG 44
 45: BUNSI 45

ตัวอย่างเพิ่มข้อมูลอาจารย์ผู้สอน (T11)

*

1:*SM 15
 2: SM 16
 3: SM 22
 4: SM 23
 5: SM 25
 6: SM 32
 7: SM 33
 8: SM 34
 9: SM 35
 10: SM 42
 11: SM 45
 12: SM 46
 13: H 13
 14: H 16
 15: H 23
 16: H 24
 17: H 25
 18: H 26
 19: H 32
 20: H 33
 21: H 34
 22: H 42
 23: H 43
 24: H 44
 25: H 45
 26: H 46
 27: S 13
 28: S 22
 29: S 23
 30: S 24
 31: S 25
 32: S 26
 33: S 27
 34: S 33
 35: S 34
 36: S 35
 37: S 36
 38: S 37
 39: A 23
 40: A 31
 41: A 32
 42: A 33
 43: A 34
 44: CH 44
 45: CH 45

ตัวอย่างแฟ้มข้อมูลห้องเรียน (R1)



8

ART EN 1

SUBJECT	C/H	ROOM	PERIOD	TEACHER
EN101	2/3	H 34	MO12	CISSTOF6
	/	H 34	FI1	
TH101	2/2	H 42	MO34	TITIMA25
AR101	2/2	H 43	FI34	SANGNA15
LS101	2/2	H 42	WE12	AKALIN21
PE111	1/2		WE34	BUNLIT38
EN221	2/2	H 42	WE56	SEVAI 5
GS111	2/2	SM 42	WE78	PREYA 49
HI100	2/2	S 37	TU34	DALIN114
GS113	2/2	SM 42	TU56	PONTE 78
SO101	2/2	S 37	TH12	SILI 129

11

SC MATH2

SUBJECT	C/H	ROOM	PERIOD	TEACHER
ST241	3/3	SM 45	MO12	VARA 67
	/	SM 45	FI1	
TH102	2/2	H 43	MO34	PRAJAK19
HI100	2/2	S 37	MO56	DALIN114
CP351	3/4	SM 42	FI34	SOMSAK70
	/	SM 42	WE56	
MA321	3/3	SM 45	FI5	RONTE 66
	/	SM 45	WE12	
MA241	3/3	SM 45	FI6	PICHI 62
	/	SM 45	TU34	
GS122	2/2	SM 45	TU12	NALUK 76
EN301	2/2	H 26	TH12	PLICEE 9

29

ART HI 3

SUBJECT	C/H	ROOM	PERIOD	TEACHER
HI311	3/3	S 33	MO34	TERUT115
	/	S 26	FI2	
HI302	3/3	S 13	FI34	MALA 117PALIT118SINE 119
	/	S 22	WE1	
HI352	3/3	S 25	FI6	MALA 117
	/	S 34	WE34	

ตัวอย่างตารางสอนรวม

SOMSAK70

	1	2	3	4	5	6	7	8
1								
2			CP351	CP351				
3			CP371	CP371	CP351	CP351		
4	CP371	CP371						
5								

Pause.

Press <enter> to continue.

TIPA 80

	1	2	3	4	5	6	7	8
1	GU623	GU623	GU621	GU621			GU315	GU315
2	GU623	GU623	GU621			GU421		
3	GU623	GU623						
4	GU418	GU418			GU315	GU315		
5	GU421	GU421	GU418	GU418				

Pause.

Press <enter> to continue.

NIPA 102

	1	2	3	4	5	6	7	8
1			EL422	EL422	ED171	ED171		
2	ED171		ED171	ED171	EL422	EL422		
3	ED171		ED471	ED471				
4								
5			EL422	EL422				

Pause.

Press <enter> to continue.

KAI 108

	1	2	3	4	5	6	7	8
1	EL452	EL452						
2			EL452	EL452	TC511			
3	EL452		TC511	TC511	EL452	EL452		
4								
5	EL452	EL452						

Pause.

ตัวอย่างตารางสอนอาจารย์

Press <enter> to continue.

SM 42

	1	2	3	4	5	6	7	8
1	BI121	BI121	CH103	CH103	MA111	MA111	EN101	EN101
2	BI121	BI121	CP351	CP351		CH222	CH103	CH103
3	CH222	CH222	GS111	GS111	CP351	CP351	GS111	GS111
4	MA111	MA111	MA111	MA111	GS113	GS113	GS122	GS122
5	MA111	MA111	GS122	GS122				

Pause.

Press <enter> to continue.

H 25

	1	2	3	4	5	6	7	8
1	EN212	EN212	TH408	TH408	AR312	AR312		
2	TH311	TH416	EN321	EN321	AR312	JP211		
3	EL452	TH413	EN408	EN408	LS301	LS301		
4	LS101	LS101	LI323	LI323	TH413	TH413		
5	EN101	EN101	EN212	EN212				

Pause.

Press <enter> to continue.

S 23

	1	2	3	4	5	6	7	8
1	ED363	ED363	EC111	EC111	HI222	HI222		
2	GE215	GE215	GE317	GE317	GE432	EC355		
3	GE221	GE221	EN301	EN301	AR311	AR311		
4	GU418	GU418	GU301	GU301				
5	HI101	HI101	SO411	SO411				

Pause.

Press <enter> to continue.

A 31

	1	2	3	4	5	6	7	8
1	ET420	ET420	ET210	ET210	ET420	ET420	ED500	ED500
2	ET420	ET420	ET420	ET420	GU312	ET423		
3	ET420	ET420	ET231	ET231	ST513	ST513	ET321	ET321
4	RS320	RS320	ET332	ET332	ET321	ET321		
5	ET321	ET321	ET330	ET330				

Pause.

ตัวอย่างตารางเวลาที่ใช้อง