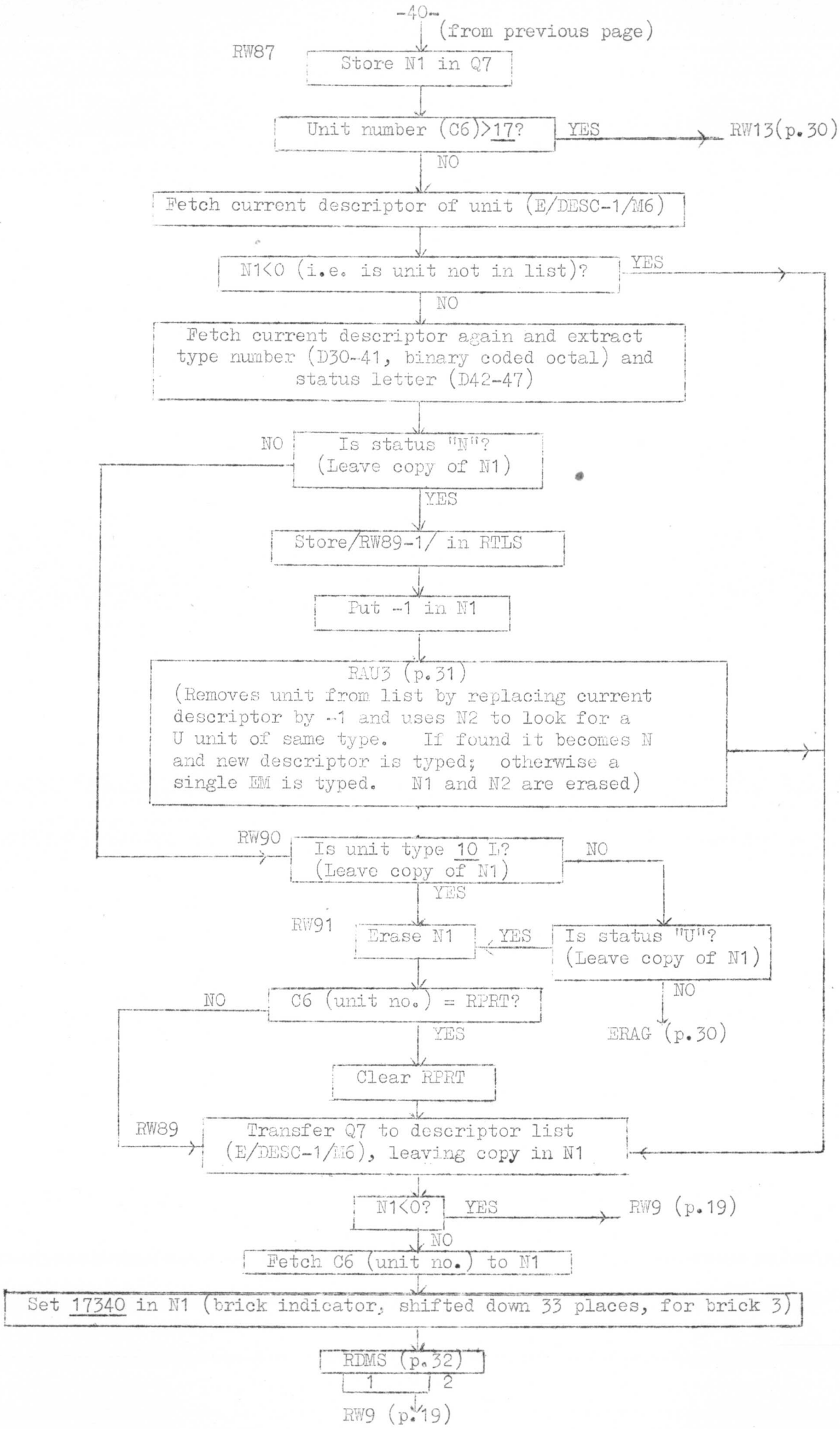
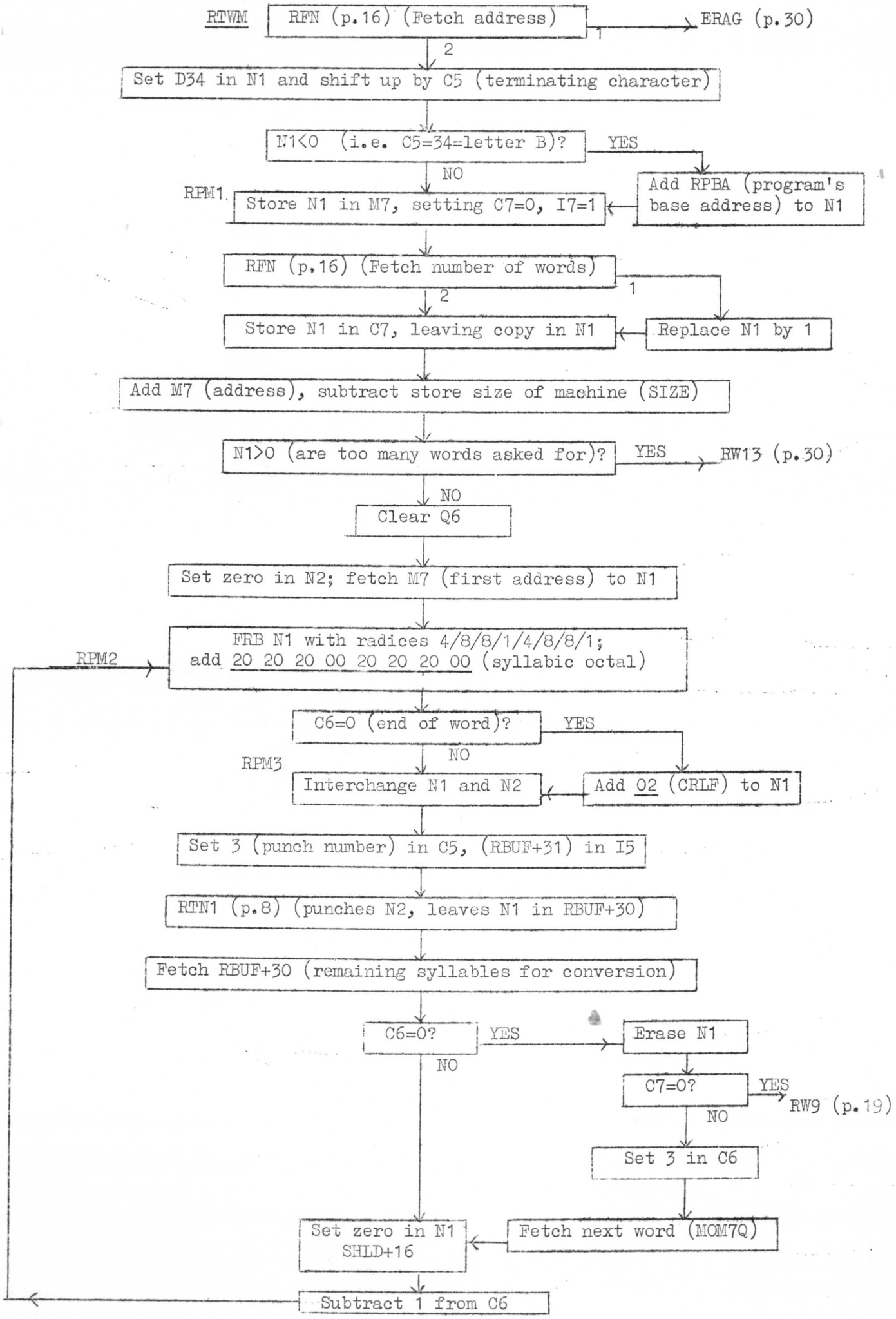
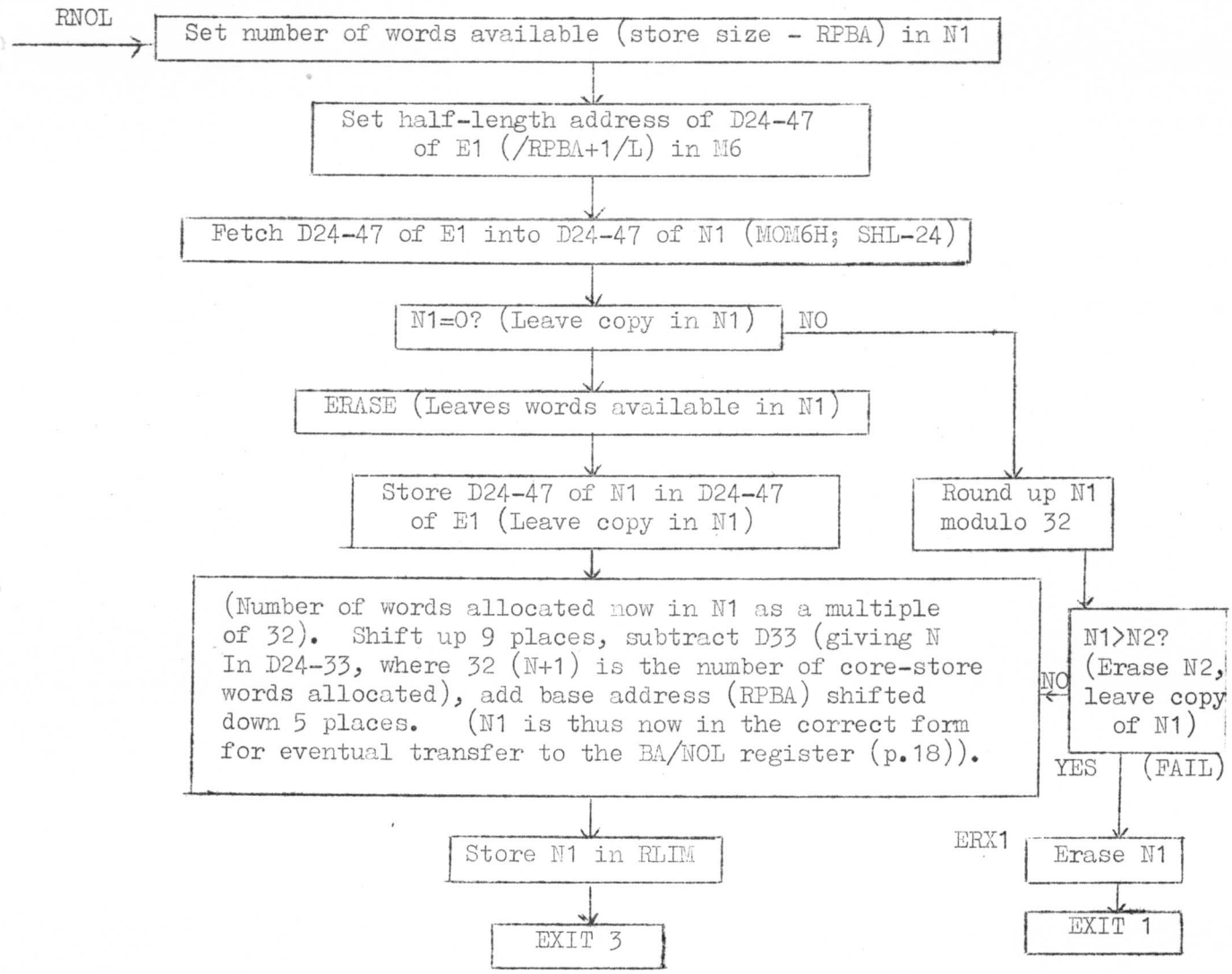
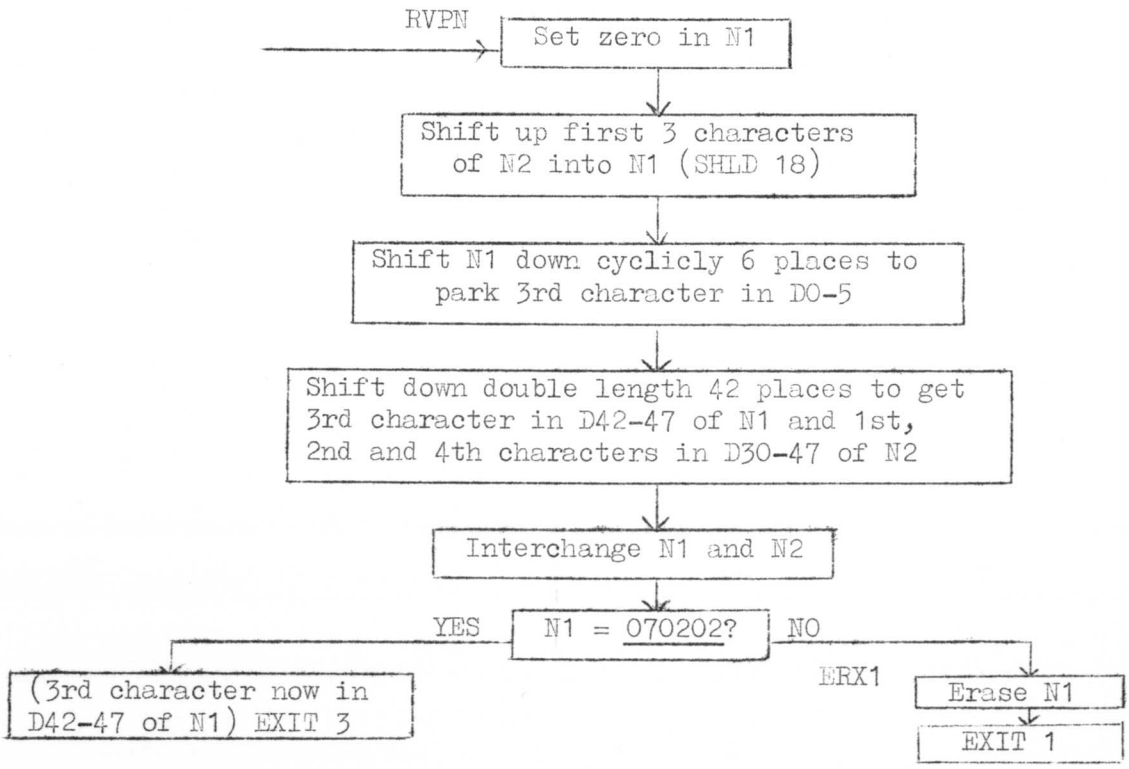

(from previous page)
RW87
Store N1 in Q7
Unit number (C6)>17?
YES
RW13(p.30)
NO
Fetch current descriptor of unit (E/DESC-1/M6)
N1<0 (i.e. is unit not in list)?
YES
NO
Fetch current descriptor again and extract type number (D30-41, binary coded octal) and status letter (D42-47)
NO
Is status "N"? (Leave copy of N1)
YES
Store/RW89-1/ in RTLS
Put -1 in N1
RAU3 (p.31)
(Removes unit from list by replacing current descriptor by -1 and uses N2 to look for a U unit of same type. If found it becomes N and new descriptor is typed; otherwise a single EM is typed. N1 and N2 are erased)
RW90
Is unit type 10 L? (Leave copy of N1)
NO
YES
RW91
Erase N1
YES
Is status "U"? (Leave copy of N1)
NO
ERAG (p.30)
NO
C6 (unit no.) = RPRT?
YES
Clear RPRT
RW89
Transfer Q7 to descriptor list (E/DESC-1/M6), leaving copy in N1
N1<0?
YES
RW9 (p.19)
NO
Fetch C6 (unit no.) to N1
Set 17340 in N1 (brick indicator, shifted down 33 places, for brick 3)
RDMS (p.32)
1
2
RW9 (p.19)


RTWM
RFN (p.16) (Fetch address)
1
ERAG (p.30)
2
Set D34 in N1 and shift up by C5 (terminating character)
N1<0 (i.e. C5=34=letter B)?
YES
NO
Add RPBA (program's base address) to N1
RPM1
Store N1 in M7, setting C7=0, I7=1
RFN (p.16) (Fetch number of words)
1
2
Store N1 in C7, leaving copy in N1
Replace N1 by 1
Add M7 (address), subtract store size of machine (SIZE)
N1>0 (are too many words asked for)?
YES
RW13 (p.30)
NO
Clear Q6
Set zero in N2; fetch M7 (first address) to N1
RPM2
FRB N1 with radices 4/8/8/1/4/8/8/1;
add 20 20 20 00 20 20 20 00 (syllabic octal)
C6=0 (end of word)?
YES
NO
RPM3
Interchange N1 and N2
Add 02 (CRLF) to N1
Set 3 (punch number) in C5, (RBUF+31) in I5
RTN1 (p.8) (punches N2, leaves N1 in RBUF+30)
Fetch RBUF+30 (remaining syllables for conversion)
C6=0?
YES
Erase N1
NO
C7=0?
YES
RW9 (p.19)
NO
Set 3 in C6
Set zero in N1
SHLD+16
Fetch next word (MOM7Q)
Subtract 1 from C6

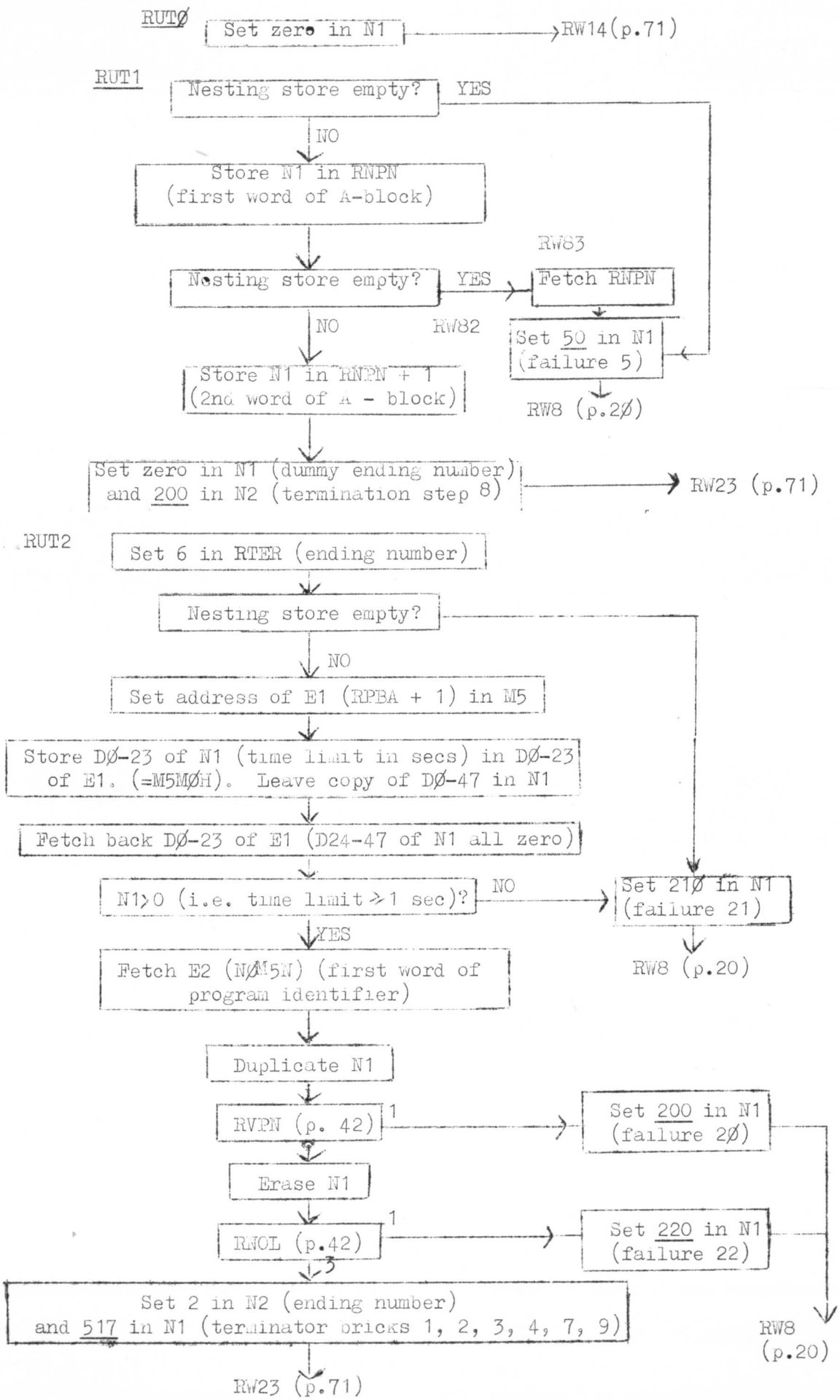
SUBROUTINE RNOL (CHECKS STORE LIMIT IN LESS SIGNIFICANT HALF OF E1 IN B-BLOCK, AMENDS IT IF ZERO)

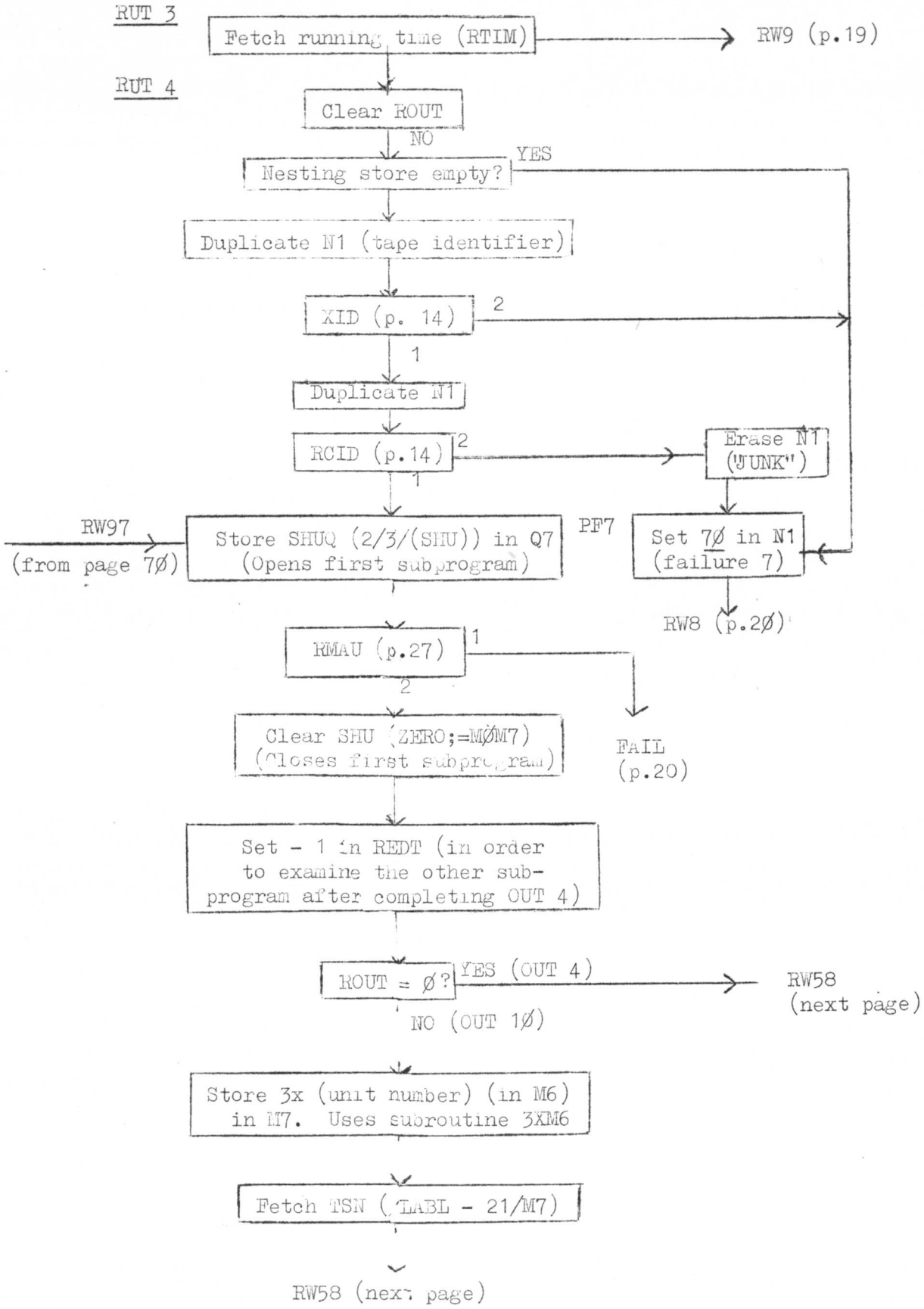


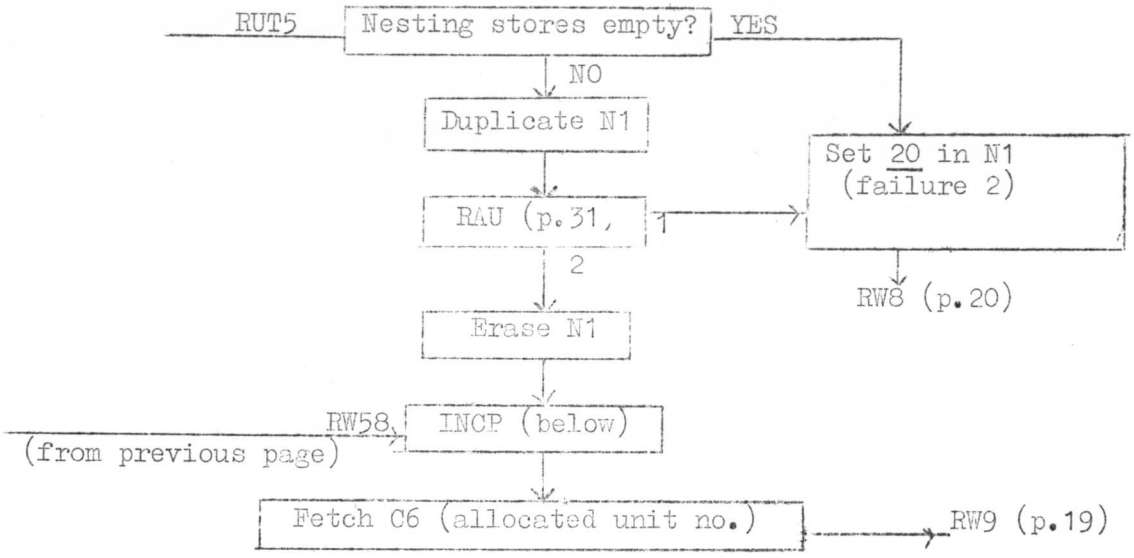
SUBROUTINE RVPN (VERIFIES THAT FIRST WORD OF PROGRAM NAME (GIVEN IN N1) STARTS 0702---02)



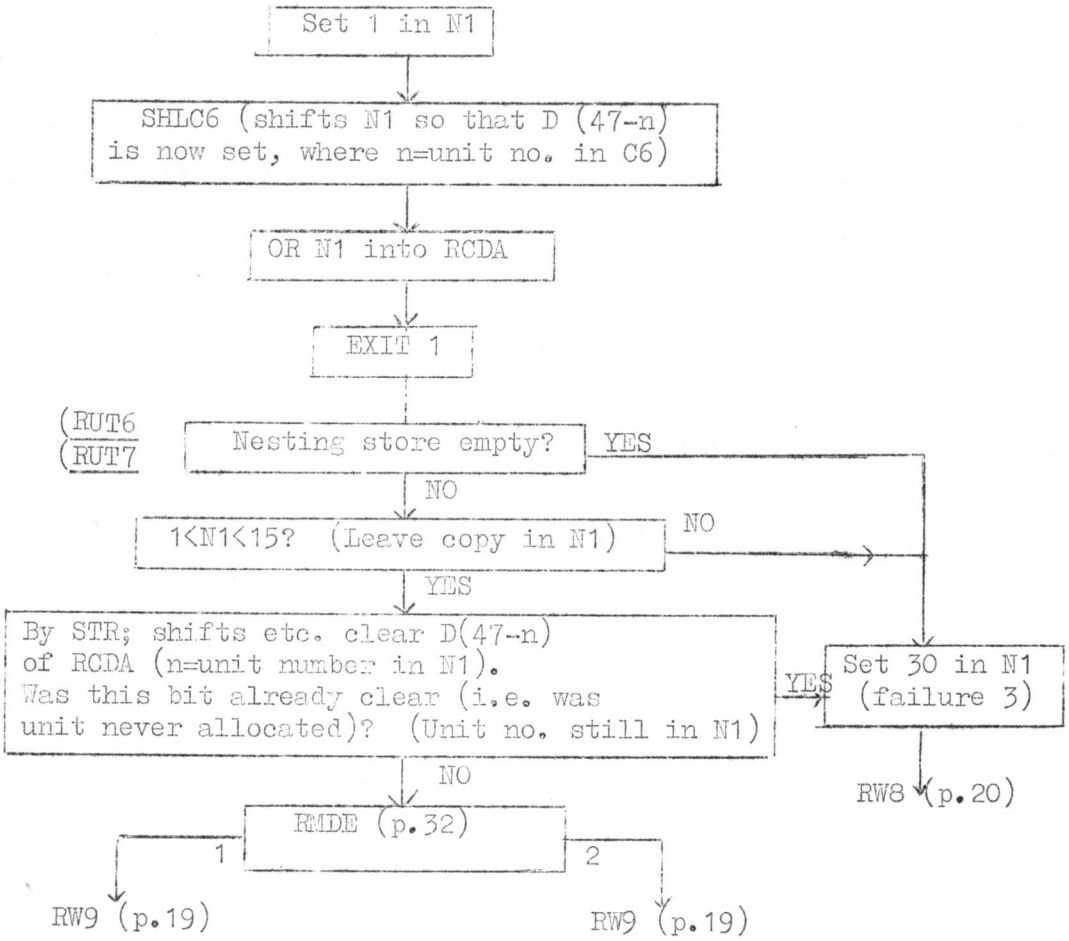
OUTS (RUTØ - UT1Ø from page 29; OUT number now erased)



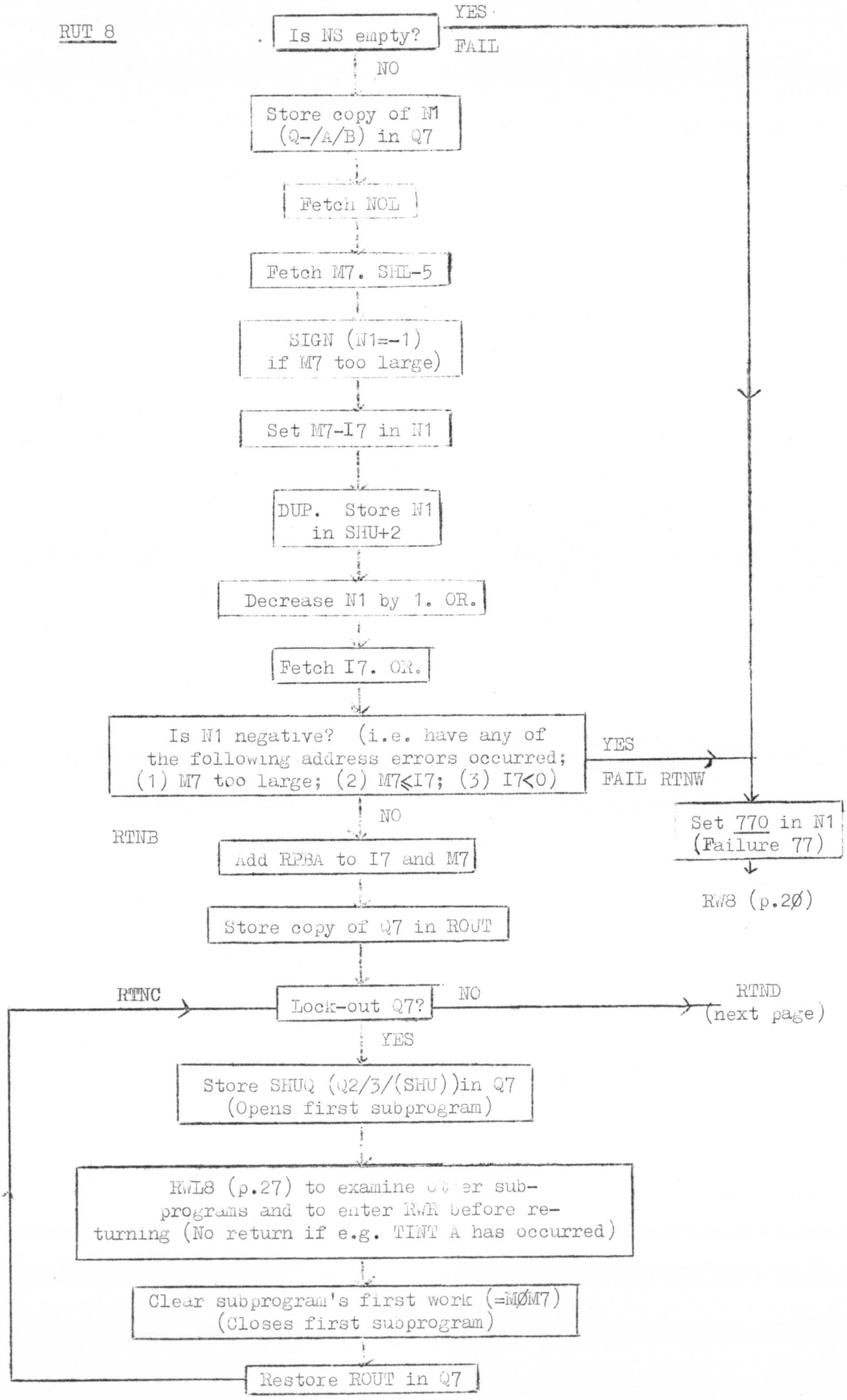

RUT 3
Fetch running time (RTIM)
RW9 (p.19)
RUT 4
Clear ROUT
NO
YES
Nesting store empty?
Duplicate N1 (tape identifier)
XID (p. 14)
2
1
Duplicate N1
RCID (p.14)
2
1
Erase N1 ("JUNK")
RW97
(from page 7Ø)
Store SHUQ (2/3/(SHU)) in Q7
(Opens first subprogram)
PF7
Set 7Ø in N1
(failure 7)
RW8 (p.2Ø)
RMAU (p.27)
1
2
Clear SHU (ZERO;=MØM7)
(Closes first subprogram)
FAIL
(p.20)
Set - 1 in REDT (in order
to examine the other sub-
program after completing OUT 4)
ROUT = Ø?
YES (OUT 4)
RW58
(next page)
NO (OUT 1Ø)
Store 3x (unit number) (in M6)
in M7. Uses subroutine 3XM6
Fetch TSN (LABL - 21/M7)
RW58 (next page)

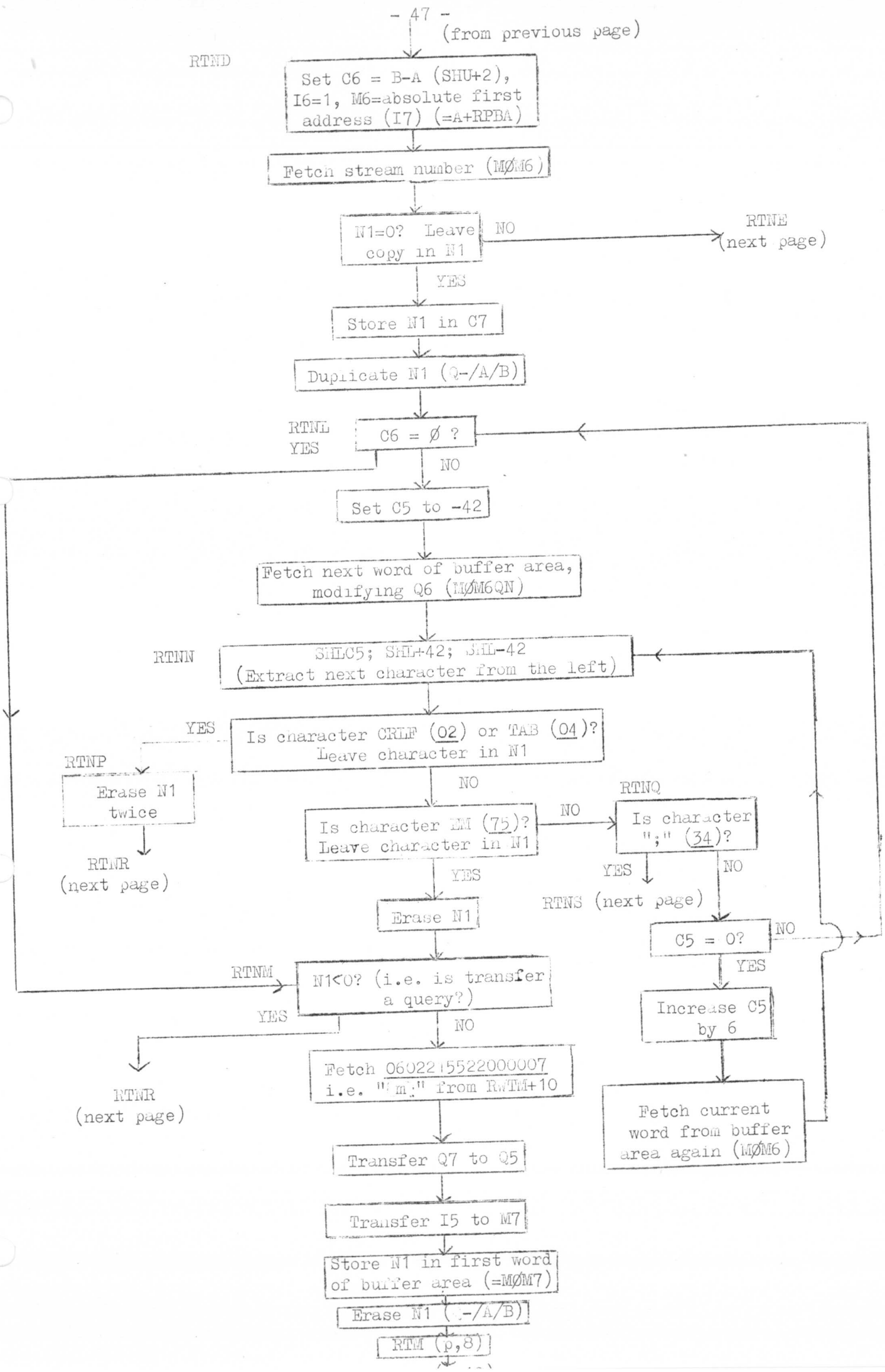


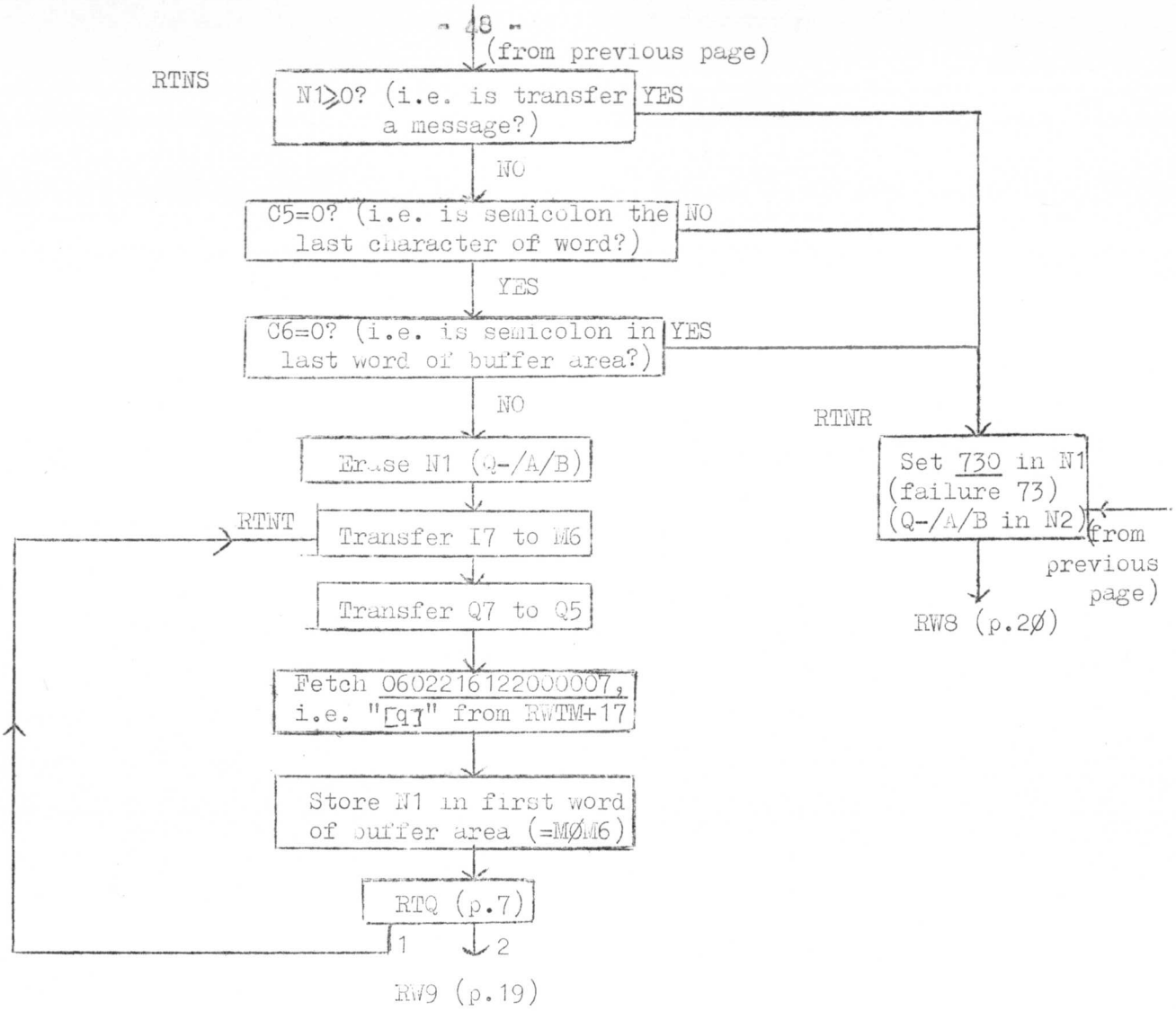
SUBROUTINE INCP (INSERT BIT IN COPY OF CPDAR)

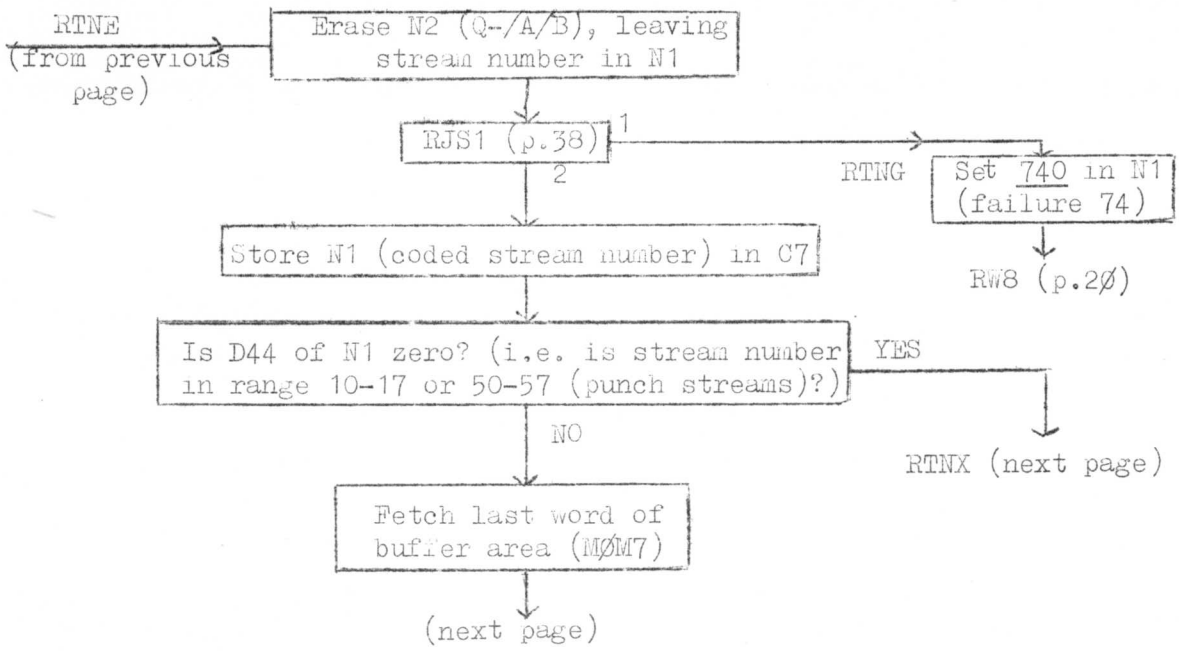


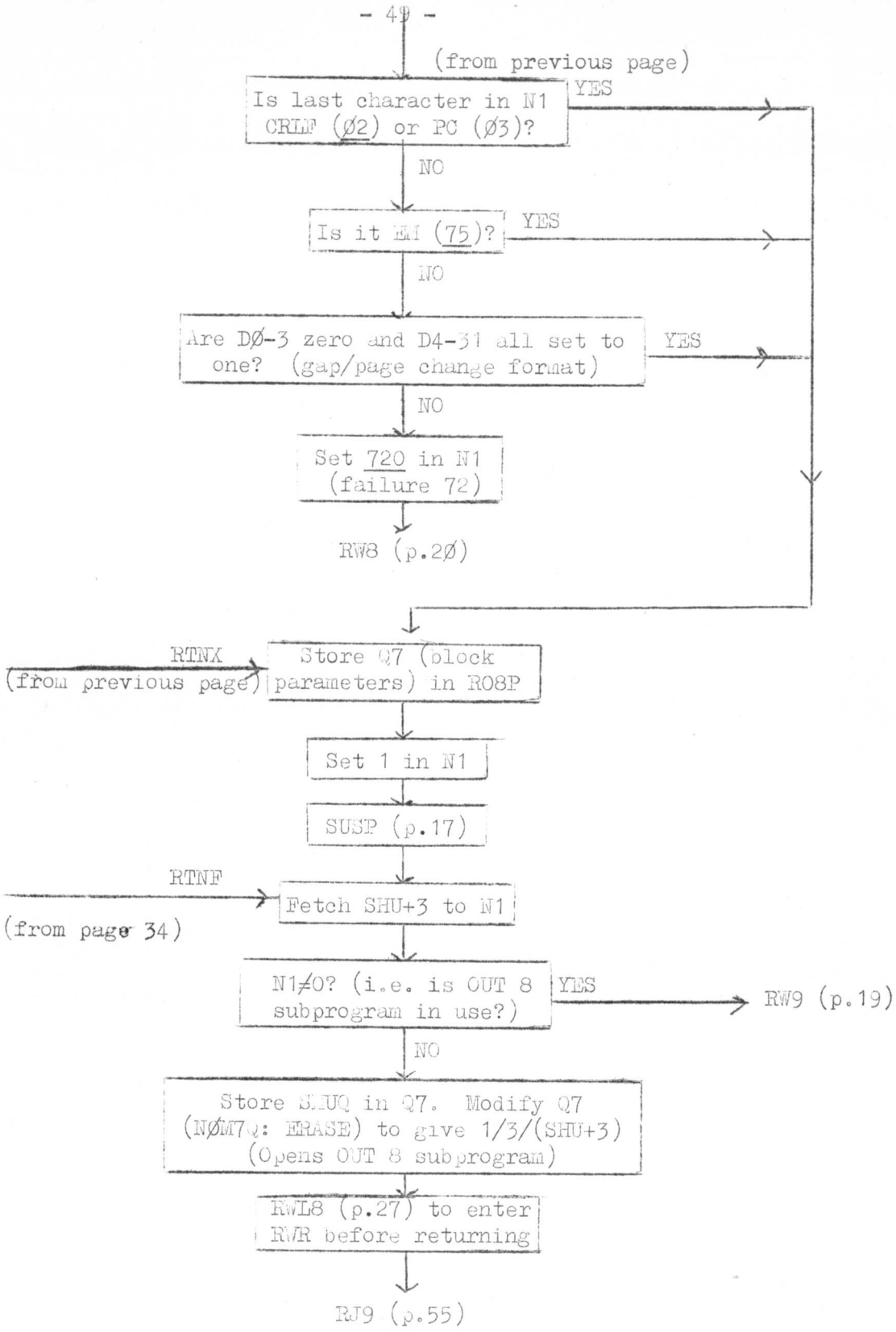
RUT 8


Is NS empty?
YES
FAIL
NO
Store copy of N1 (Q-/A/B) in Q7
Fetch NOL
Fetch M7. SHL-5
SIGN (N1=-1) if M7 too large)
Set M7-I7 in N1
DUP. Store N1 in SHU+2
Decrease N1 by 1. OR.
Fetch I7. OR.
Is N1 negative? (i.e. have any of the following address errors occurred; (1) M7 too large; (2) M7≤I7; (3) I7<0)
YES
FAIL RTNW
NO
RTNB
Add RPBA to I7 and M7
Set 770 in N1 (Failure 77)
RW8 (p.2Ø)
Store copy of Q7 in ROUT
RTNC
Lock-out Q7?
NO
RTND (next page)
YES
Store SHUQ (Q2/3/(SHU))in Q7 (Opens first subprogram)
RWL8 (p.27) to examine other sub-programs and to enter RWR before re-turning (No return if e.g. TINT A has occurred)
Clear subprogram's first work (=MØM7) (Closes first subprogram)
Restore ROUT in Q7


(from previous page)
RTND
Set C6 = B-A (SHU+2), I6=1, M6=absolute first address (I7) (=A+RPBA)
Fetch stream number (MØM6)
N1=0? Leave copy in N1
NO
RTNE (next page)
YES
Store N1 in C7
Duplicate N1 (Q-/A/B)
RTNL
YES
C6 = Ø ?
NO
Set C5 to -42
Fetch next word of buffer area, modifying Q6 (MØM6QN)
RTNN
SHLC5; SHL+42; SHL-42 (Extract next character from the left)
YES
Is character CRLF (02) or TAB (04)? Leave character in N1
RTNP
Erase N1 twice
RTNR (next page)
NO
Is character EM (75)? Leave character in N1
NO
RTNQ
Is character ";" (34)?
YES
RTNS (next page)
NO
YES
Erase N1
C5 = 0?
NO
YES
RTNM
N1<0? (i.e. is transfer a query?)
Increase C5 by 6
YES
NO
RTNR (next page)
Fetch 0602215522000007 i.e. "m" from RwTM+10
Fetch current word from buffer area again (MØM6)
Transfer Q7 to Q5
Transfer I5 to M7
Store N1 in first word of buffer area (=MØM7)
Erase N1 (-/A/B)
RTM (p,8)


(from previous page)
RTNS
N1≥0? (i.e. is transfer a message?)
YES
NO
C5=0? (i.e. is semicolon the last character of word?)
NO
YES
C6=0? (i.e. is semicolon in last word of buffer area?)
YES
NO
RTNR
Set 730 in N1 (failure 73) (Q-/A/B in N2)
(from previous page)
RW8 (p.2Ø)
Erase N1 (Q-/A/B)
RTNT
Transfer I7 to M6
Transfer Q7 to Q5
Fetch 0602216122000007, i.e. "[q]" from RWTM+17
Store N1 in first word of buffer area (=MØM6)
RTQ (p.7)
1
2
RW9 (p.19)


RTNE
(from previous page)
Erase N2 (Q-/A/B), leaving stream number in N1
RJS1 (p.38)
1
2
RTNG
Set 740 in N1 (failure 74)
RW8 (p.2Ø)
Store N1 (coded stream number) in C7
Is D44 of N1 zero? (i.e. is stream number in range 10-17 or 50-57 (punch streams)?)
YES
RTNX (next page)
NO
Fetch last word of buffer area (MØM7)
(next page)


(from previous page)
Is last character in N1 CRLF (Ø2) or PC (Ø3)?
YES
NO
Is it EM (75)?
YES
NO
Are DØ-3 zero and D4-31 all set to one? (gap/page change format)
YES
NO
Set 720 in N1 (failure 72)
RW8 (p.2Ø)
RTNX
(from previous page)
Store Q7 (block parameters) in RO8P
Set 1 in N1
SUSP (p.17)
RTNF
(from page 34)
Fetch SHU+3 to N1
N1≠0? (i.e. is OUT 8 subprogram in use?)
YES
RW9 (p.19)
NO
Store SHUQ in Q7. Modify Q7 (NØM7Q: ERASE) to give 1/3/(SHU+3) (Opens OUT 8 subprogram)
RWL8 (p.27) to enter RWR before returning
RJ9 (p.55)