```
┌──────────┐
│ ENDPRO   │
└──────────┘
     │
     ▼
┌──────────┐   ┌─────────────────┐
│ COMPIL   │   │ PRIM  FINISH    │
└──────────┘   └─────────────────┘
     │
     ▼
┌──────────┐
│ BLANKS   │  (21)
└──────────┘
     │
     ▼
  MFAIL = 0
      ?
```

no ──→ ( ERROR )   page 5

yes ↓

```
  in report mode
      ?
```

yes ──→ ( REPEND )   page 6

no ↓

```
┌──────────┐   ┌─────────────────┐
│ PUNGLB   │   │ QACODL          │
└──────────┘   └─────────────────┘
     │
     ▼
┌──────────────────────────────────┐
│  punch the contents of ODL.      │
│  positive elements are punched    │
│  with code 1, negative elements   │
│  with code 2. Negative elements   │
│  are label addresses and have     │
│  the sign bit removed before      │
│  punching                         │
└──────────────────────────────────┘
     │
( NXJOB ) ──────→ ●
     │
     ▼
  punch checksum
     │
     ▼
```

CALLED FROM
( END RESTO FAIL )
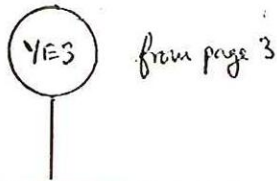
in report mode
if OPTION 2
bit present

punch global
L H. label
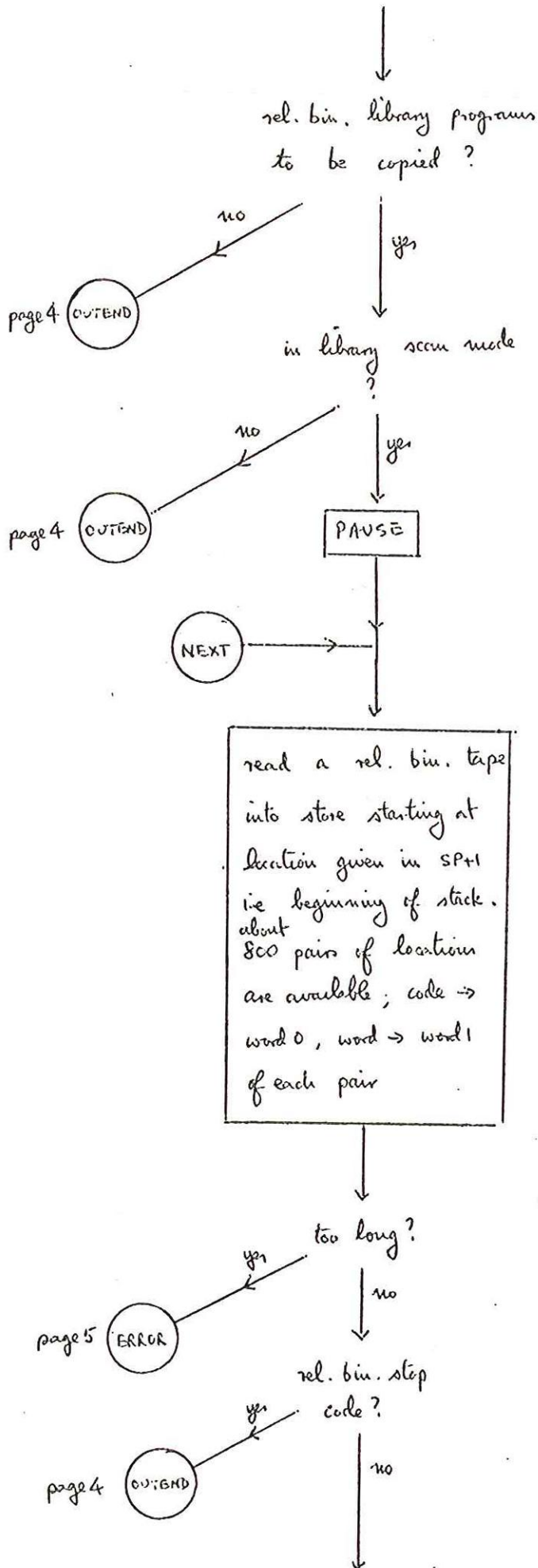
rel. bin. library programs
to be copied ?

no

page 4 (OUTEND)

yes

in library scan mode
?

no

page 4 (OUTEND)

yes

PAUSE

(NEXT) → 

read a rel. bin. tape
into store starting at
location given in SP+1
ie beginning of stack.
about
800 pairs of locations
are available; code →
word 0, word → word 1
of each pair

too long ?

yes

no

page 5 (ERROR)

rel. bin. step
code ?

yes

no

page 4 (OUTEND)

(TEST) ⟶

W := (NLP+1)

(LOOP) ⟶

name [W] is on
library and has
been used in prog.
?

no

yes

W := W - 4

(MAYBE)

end of search
?

no

yes

page 2   (NEXT)

pointer in namelist
entry points to
name agreeing with
library procedure just
read  ?

no

yes

(YES)   page 4
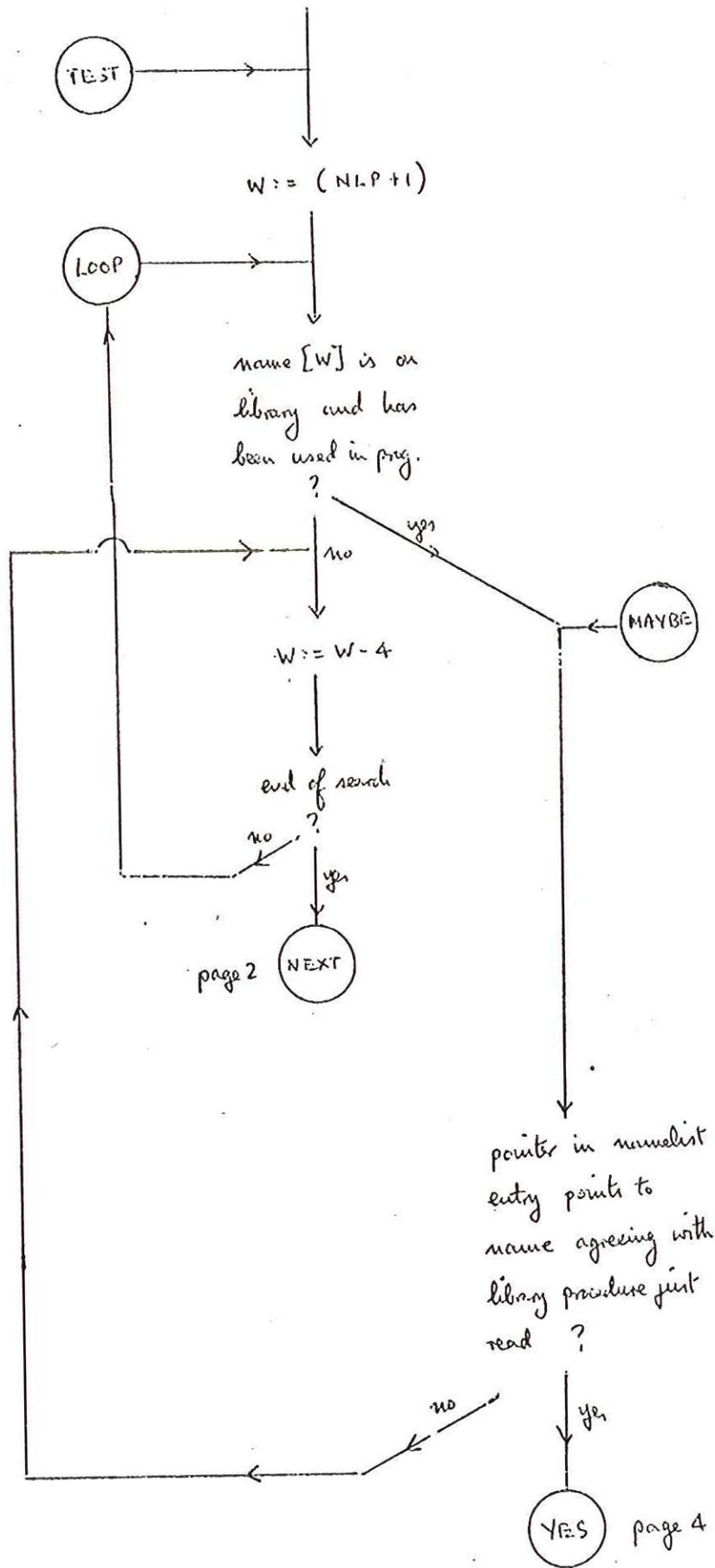
search ends at
point including
names declared
in Users
outermost block

( YES )  from page 3

```
punch library procedure
from store including
checksum and precede it
by 21 blanks
```

( NEXT )  page 2

( OUTEND )  from page 2
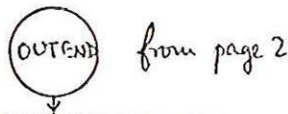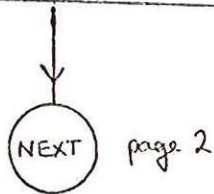
```
clear checksum;
punch QAVNDA
as L.H. global label;
punch skip code and
NDAP;
punch checksum and
21 blanks;
punch rel. bin. halt
code.
```

page 5  ( TRAIL )

(ERROR) from page 1 and 2

print FAIL ;
punch halt code and
21 blanks ;
punch visible X ;

(TRAIL) ⟶

punch 50 blanks
punch 6 erase signs
punch 100 blanks

(R2) ⟶

read a character
in report mode
?  ⟶ no ⟶  punch the character

yes

char = halt code
no  ?
yes

```
punch 100 blanks
fill 9 with 8 ;+0
halt in 9
```

REPEAT

punch  PROGRAM

print sum of PP
and  CODLP ;
punch  SCALARS
print  NDAP value

page 5   TRAIL