

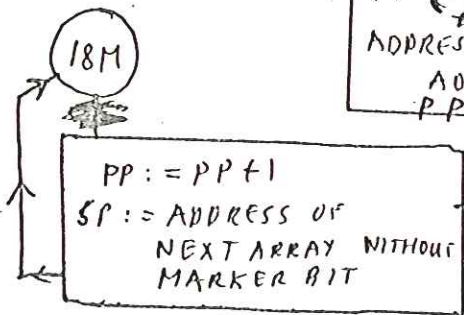
STORE NEW VALUE OF CONSTANT  $C_n$   
 IN ARRAY MAP (ADDRESS OF NEXT ~~MAP~~  
 ENTRY + 3).  
 ADD +2 TO ADDRESS OF NEXT ENTRY.  
~~MAP~~  
 OFFSET ASSEMBLY := OFFSET ASSEMBLY  
 - (NEXT LOWBOUND \*  $C_n$ );



MAMPS1  
 STORE TOTAL SIZE (= CURRENT VALUE of  $C_n$ )  
 IN FIRST LOCATION OF MAP;  
 SECOND LOCATION OF MAP :=  
 OFFSET ASSEMBLY;  
 ADDRESS OF NEXT ARRAY :=  
 ADDRESS OF NEXT MAP ENTRY + 3  
 + REAL/INTEGER MARKER;

MAMPS3

STORE ADDRESS OF NEXT ARRAY AT  
 PP (ADDRESS OF NEXT ARRAY PAIR)  
 ADDRESS OF NEXT ARRAY :=  
 ADDRESS OF NEXT ARRAY +  $C_n$   
 PP := PP + 2



17P Fun PE

```

PICK OUT BN' AND VA
FROM ADPART. NEXTAD :=
CONTENT OF (SP) := EP - 3m
EP := EP - 3m - 3;
CONTENT OF (SP+1) := BN (ORIGINAL);
BN := BN';
SP := SP + 2;

```

17R PCHK4

```

HAVE
ALL
PROCEDURE
PARAMETERS
BEEN
CHECKED?

```

YES → 18M

NO

PCHK1

```

PICK UP NEXT CHECK
WORD (CONTENT OF (PP));
PP := PP + 1;

```

```

IS
PARAM.
CALLED BY
VALUE?

```

YES → PCHK2

```

IS IT
AN ARRAY
(INTEGER
OR REAL)

```

YES → 19C

NO

```

PICK UP CODE CHECK
FROM (NEXTAD + 1)
IGNORING M.S. BIT

```

17N

PCHK5

```

NEXTAD :=
NEXTAD + 3

```

17M

7E

```

PICK UP ERROR
NO. 1 (PARAMETER
MISMATCH)

```

```

DOES
CHECK WORD
CODE
CORRESPOND?

```

YES → 18A

NO → 7E



PCHK3

18A SUBTRACT PROGRAM BASE ADDRESS FROM ADDRESS PART OF CHECK WORD. (RESULT = DIM)

WAS ADDRESS PART = 8191

YES ( ) 17N

(IGNORE IF PARAMETER NOT USED IN PROCEDURE)

PCHK8

IS PARAMETER AN ARRAY

PICK OUT NUMBER OF DIMENSIONS

NO

IS IT A PROCEDURE

NO

PICK OUT NUMBER OF PARAMETERS FROM BLOCK HEAD

IS NUMBER = DIM ?

YES 17N

NO 17M

18M

MAMPS4

IS SP < WARN ADDRESS ?

YES 4N

(NXPORD)

SET WARN TRUE

18E

MAMPS5

ERROR NUMBER 2 STACK OVERFLOW

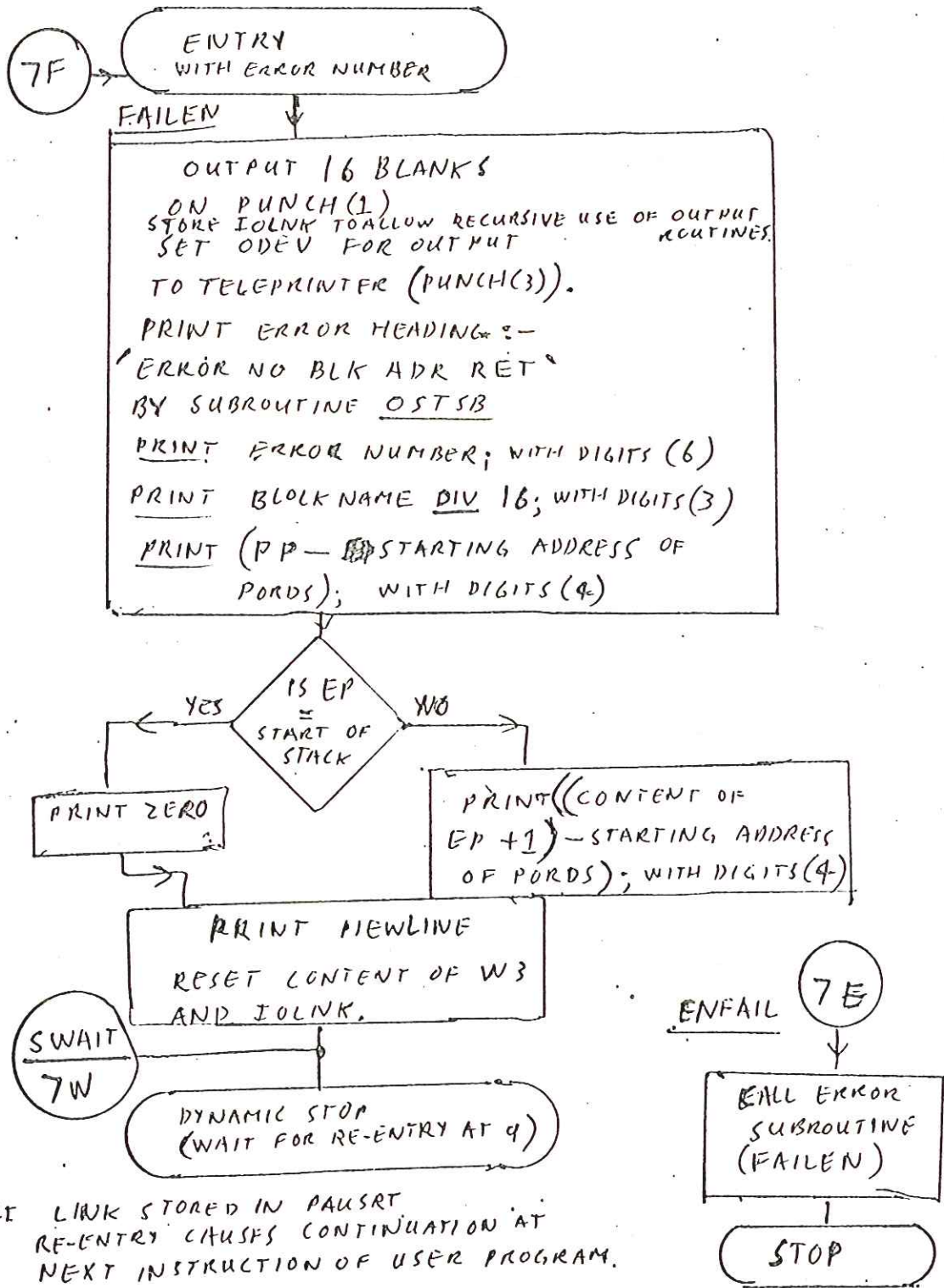
7E

IS SP < STACK END

YES 4N

NO

# FAIL Subroutine (FAILEN)



SUBRT LINK STORED IN PAUSRT  
RE-ENTRY CAUSES CONTINUATION AT  
NEXT INSTRUCTION OF USER PROGRAM.