OUTPUT STRING SUBROUTINE.

OSTSB
SUBROUTINE ENTRY

STORE ADDRESS GIVEN AS
"ADDRESS OF NEXT STRING CHAR."

SET "CHAR. POSITION" TO FIRST
CHARACTER IN WORD.
SET N TO -1 (NULL)
"STRING DEPTH" := 0 -1
(FIRST CHARACTER OF STRING)

(54C)

OUTPUT
CHARACTER
(OTCHA)

(54K)

OST2
PICK OUT NEXT CHARACTER
FROM STRING.

HAVE
3 CHARS.
BEEN TAKEN
FROM
WORD

NO → ADVANCE
"POSITION IN
WORD"

YES → OST1
RESET TO FIRST
CHAR. IN WORD
ADVANCE ADDRESS

OST3
IS IT
FIRST
CHAR. OF
STRING

YES → OST4
IS
CHAR
OPEN QUOTE
?

NO → PICK UP ERROR
NO. 23

(7E)

YES → SET "STRING
DEPTH = + O
(ORDINARY STRING)

NO →
OST6
IS
CHAR.
OPEN QUOTE
?

IS. IT
INNER
STRING
CHAR

NO

YES

(55§)

SET STRING
DEPTH = + 1
(INNER STRING)

NO → IS IT
CLOSE QUOTE
?

(54C)

NO

YES → EXIT FROM
SUBROUTINE

55 S

IS CHAR. A DECIMAL DIGIT — YES → MULTIPLY N BY 10 ADD DIGIT VALUE (IF N WAS NEGATIVE IT STAYS NEGATIVE)

54 K

NO

OSTS

IS N NEGATIVE (NULL) — NO → WAS PREVIOUS CHAR B — NO → 56 R

YES

35 E →

OST9
OUTPUT FINAL CHARACTER (OTCHA)

YES
FINAL CHAR := N + BINARY CODE & MARKER

SET PREVIOUS CHAR. := CURRENT CHAR

N := N - 2

OUT...

YES ← IS CHAR. CLOSE QT ?

SET STRING DEPTH = ≠0 (ORDINARY STRING)

54 K

NO

IS IT 'B' — YES →

56 N

OST8
PREVIOUS CHAR. & := FINAL CHAR := HALT CODE

IS IT H — YES →

IS IT L — YES → FINAL CHAR := NEWLINE PREVIOUS CHAR := OUTPUT CODE FOR LINEFEED

NO → 56 C

55 L

(56C)

IS CHAR Q — YES → CHAR := OPEN QUOTE SIGN

NO

IS IT R — YES → CHAR := OUTPUT CODE FOR RUNOUT (BLANK WITH MARKER)

NO

IS IT S — YES → CHAR := SPACE

NO

CHAR := CLOSE QUOTE

IS IT U — YES →

NO

PICK UP ERROR NO. 6 (ILLEGAL CHAR. IN INNER STRING)

ERROR SUBROUTINE FAILEN (Sheet 7)

PREVIOUS CHAR := FINAL CHAR := CHAR

(56N) →

N := 0

(54K)

(55L)

(56R) →

N := N-2

N := N-1 →

IS N<0 — YES → (55E)

NO

OUTPUT PREVIOUS CHAR (OTCHA)