CENTRAL LOOP

The basic cycle routine (BCR) fetches the next ALGOL "section", which is in one of the following three formats, and sets the variable M to be

      0 : delimiter by itself
      1 : identifier followed by delimiter
      2 : constant followed by delimiter

A delimiter being a basic symbol like ; or +, or an ALGOL word like <u>begin</u>.

Depending upon the delimiter discovered, a transfer of control is made to the relevant routine, which will end with a jump back to OUT. In some cases BCR is called during the routines (e.g. in <u>procedure</u> it is called to check whether the procedure body is in ALGOL or in own code) and in these cases exit is made back to OUT2, and processing continues on that delimiter.

BCR is called with one parameter which can be either 0, 1, 2, 3 or 4. The first three require the section to comply with this forecast for M. BCR (3) is the general call which will accept any section, and BCR (4) is the call during subsequent discarding of the rest of an erroneous statement or declaration, or of a comment.

ERRORS

FAIL 33   ) or] precedes constant or identifier

FAIL 10   M doesn't agree with the parameter in BCR (0, 1 or 2)

FAIL 11   Alphanumeric character, '.' or '₁₀' misplaced.

FAIL 12   Constant or identifier <u>true</u> <u>false</u>

FAIL 13   <u>comment</u> misplaced

FAIL 15   Unrecognised underlined word.