

TAKE

This subroutine is used to process an identifier or constant that is used in a statement or expression. However, if the current ALGOL section does not contain an identifier or constant, the last delimiter is checked, and if it is] UNSTAK is called to generate INDA or INDR as required.

If the current ALGOL section contains an identifier, it is processed by the subroutine TAKE IDENTIFIER (which uses the P which is a parameter to TAKE).

It should be noted that P = 1 when on the right hand side of an assignment statement, otherwise it is 0,

Where the current ALGOL section contains a constant, P is checked to remove errors such as "2:=", and after a check that a Boolean constant is not used in an arithmetic expression CODL is searched, having the pointer Q set. CONS is set by BCR; to zero if real, to one if integer, and to two if Boolean. The test on CONS determines what instruction to generate before exit.

ERRORS

FAIL 31; constant before := or [

FAIL 45; Boolean constant cannot be used here.

FAIL 30; adjacent delimiters inadmissible.