NAME
    expr − evaluate expressions

SYNOPSIS
    expr *EXPRESSION*
    expr *OPTION*

DESCRIPTION
    −−help
        display this help and exit

    −−version
        output version information and exit

    Print the value of EXPRESSION to standard output. A blank line below separates increasing precedence groups. EXPRESSION may be:

    ARG1 | ARG2
        ARG1 if it is neither null nor 0, otherwise ARG2

    ARG1 & ARG2
        ARG1 if neither argument is null or 0, otherwise 0

    ARG1 < ARG2
        ARG1 is less than ARG2

    ARG1 <= ARG2
        ARG1 is less than or equal to ARG2

    ARG1 = ARG2
        ARG1 is equal to ARG2

    ARG1 != ARG2
        ARG1 is unequal to ARG2

    ARG1 >= ARG2
        ARG1 is greater than or equal to ARG2

    ARG1 > ARG2
        ARG1 is greater than ARG2

    ARG1 + ARG2
        arithmetic sum of ARG1 and ARG2

    ARG1 − ARG2
        arithmetic difference of ARG1 and ARG2

    ARG1 * ARG2
        arithmetic product of ARG1 and ARG2

    ARG1 / ARG2
        arithmetic quotient of ARG1 divided by ARG2

    ARG1 % ARG2
        arithmetic remainder of ARG1 divided by ARG2

    STRING : REGEXP
        anchored pattern match of REGEXP in STRING

    match STRING REGEXP
        same as STRING : REGEXP

    substr STRING POS LENGTH
        substring of STRING, POS counted from 1

      index STRING CHARS
            index in STRING where any CHARS is found, or 0

      length STRING
            length of STRING

      + TOKEN
            interpret TOKEN as a string, even if it is a

            keyword like 'match' or an operator like '/'

      (EXPRESSION)
            value of EXPRESSION

Beware that many operators need to be escaped or quoted for shells. Comparisons are arithmetic if both ARGs are numbers, else lexicographical. Pattern matches return the string matched between \(and \) or null; if \(and \) are not used, they return the number of characters matched or 0.

Exit status is 0 if EXPRESSION is neither null nor 0, 1 if EXPRESSION is null or 0, 2 if EXPRESSION is syntactically invalid, and 3 if an error occurred.

AUTHOR
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REPORTING BUGS
      Report bugs to <bug−coreutils@gnu.org>.

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SEE ALSO
      The full documentation for **expr** is maintained as a Texinfo manual. If the **info** and **expr** programs are properly installed at your site, the command

            info expr

      should give you access to the complete manual.