Title

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do — do . . . while (exp)

Syntax   Description   Remarks and examples   Also see

Syntax

    do *stmt* while (*exp*)

    do {
        stmts
    } while (*exp*)

where *exp* must evaluate to a real scalar.

Description

do executes *stmt* or *stmts* one or more times, until *exp* is zero.

Remarks and examples

One common use of do is to loop until convergence:

    do {
        lasta = a
        a = get_new_a(lasta)
    } while (mreldif(a, lasta)>1e-10)

The loop is executed at least once, and the conditioning expression is not executed until the loop's body has been executed.

Also see

[M-2] **for** — for (exp1; exp2; exp3) stmt

[M-2] **while** — while (exp) stmt

[M-2] **break** — Break out of for, while, or do loop

[M-2] **continue** — Continue with next iteration of for, while, or do loop

[M-2] **intro** — Language definition