do — do ... while (exp)

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