do — do ... while (exp)

Description

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

Syntax

do stmt while (exp)

do {
    stmts
} while (exp)

where exp must evaluate to a real scalar.

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] break — Break out of for, while, or do loop
[ M-2] continue — Continue with next iteration of for, while, or do loop
[ M-2] for — for (exp1; exp2; exp3) stmt
[ M-2] while — while (exp) stmt
[ M-2] Intro — Language definition