

**break** — Break out of for, while, or do loop

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## Description

`break` exits the innermost `for`, `while`, or `do` loop. Execution continues with the statement immediately following the close of the loop, just as if the loop had terminated normally.

`break` nearly always occurs following an `if`.

## Syntax

```

for, while, or do {
    ...
    if (...) {
        ...
        break
    }
}
stmt                ← break jumps here
...

```

## Remarks and examples

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In the following code,

```

for (i=1; i<=rows(A); i++) {
    for (j=1; j<=cols(A); j++) {
        ...
        if (A[i,j]==0) break
    }
    printf("j = %g\n", j)
}

```

the `break` statement will be executed if any element of  $A[i, j]$  is zero. Assume that the statement is executed for  $i=2$  and  $j=3$ . Execution will continue with the `printf()` statement, which is to say, the  $j$  loop will be canceled but the  $i$  loop will continue. The value of  $j$  upon exiting the loop will be 3; when you break out of the loop, the  $j++$  is not executed.

## Also see

[M-2] [do](#) — `do ... while (exp)`

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

[M-2] [while](#) — `while (exp) stmt`

[M-2] [continue](#) — Continue with next iteration of `for`, `while`, or `do` loop

[M-2] [intro](#) — Language definition