Description

Syntax

Remarks and examples

Also see

Description

```
for is equivalent to
```

```
exp_1
while (exp_2) {
stmt(s)
exp_3
}
```

stmt(s) is executed zero or more times. The loop continues as long as exp2 is not equal to zero.

Syntax

```
for (exp<sub>1</sub>; exp<sub>2</sub>; exp<sub>3</sub>) stmt
for (exp<sub>1</sub>; exp<sub>2</sub>; exp<sub>3</sub>) {
    stmts
}
```

where exp_1 and exp_3 are optional, and exp_2 must evaluate to a real scalar.

Remarks and examples

To understand for, enter the following program

```
function example(n)
{
    for (i=1; i<=n; i++) {
        printf("i=%g\n", i)
    }
    printf("done\n")
}</pre>
```

and run example (3), example (2), example (1), example (0), and example (-1).

Common uses of for include

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] do — do ... while (exp)

[M-2] **Semicolons** — Use of semicolons

[M-2] while — while (exp) stmt

[M-2] **Intro** — Language definition

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