for — for (exp1; exp2; exp3) stmt

Syntax Description Remarks and examples Also see

Syntax

```
for (exp1; exp2; exp3) stmt
for (exp1; exp2; exp3) {
    stmts
}
```

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

Description

for is equivalent to

```
exp1
while (exp2) {
    stmt(s)
    exp3
}
```

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

Remarks and examples

stata.com

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

```
for (i=1; i<=rows(A); i++) {
    for (j=1; j<=cols(A); j++) {
        ...
    }
}</pre>
```

Also see

- [M-2] semicolons Use of semicolons
- [M-2] **do** do ... while (exp)
- [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