

if else

```
if (condition) {  
    ## do something  
} else {  
    ## do something else  
}  
  
if (x > 3) {  
    y <- 10  
} else {  
    y <- 0  
}
```

for loop

```
for (i in 1:10) {  
    print(i)  
}  
  
## The following loops have the  
same behavior  
  
x <- c("a", "b", "c", "d")  
for (i in 1:4) {  
    print(x[i])  
}  
  
for (i in seq_along(x)) {  
    print(x[i])  
}  
  
for (letter in x) {  
    print(letter)  
}  
  
## If a for loop has a single  
expression  
for (i in 1:4) print(x[i])
```

while loop

```
count <- 0  
while (count < 10) {  
    print(count)  
    count <- count + 1  
}
```

repeat, next, break

```
x0 <- 1  
tol <- 1e-8  
repeat {  
    x1 <- somefunction()  
    if (condition) {  
        break  
    } else {  
        (another  
        condition)  
    }  
    for (i in 1:100) {  
        if (i <= 20) {  
            # Skip the  
            first 20 iterations  
            next  
        }  
        ## Do something here  
    }  
}
```

function

```
add2 <- function(x + y) {  
    x + y  
}  
  
## A function always returns the  
last expression  
above <- function(x, n) {  
    use <- x > n  
    x[use]  
}
```



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