

TMC 204

Statistical Data Analysis with R

Unit 3

R break, next and repeat (R flow control)

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break statement

A break statement is used inside a loop (repeat, for, while) to stop the iterations and flow the control outside of the loop.

In a nested looping situation, where there is a loop inside another loop, this statement exits from the innermost loop that is being evaluated.

The syntax of break statement is:

```
if (test_expression) {  
  break  
}
```

Example:

```
x <- 1:5  
for (val in x) {  
  if (val == 3){  
    break  
  }  
  print(val)  
}
```

next statement

A next statement is useful when we want to skip the current iteration of a loop without terminating it.

On encountering next, the R parser skips further evaluation and starts next iteration of the loop.

The syntax of next statement is:

```
if (test_condition) {  
  next  
}
```

Example:

```
x <- 1:5  
for (val in x) {  
  if (val == 3){  
    next  
  }  
  print(val)  
}
```

R repeat loop

A repeat loop is used to iterate over a block of code multiple number of times.

There is no condition check in repeat loop to exit the loop.

We must ourselves put a condition explicitly inside the body of the loop and use the break statement to exit the loop. Failing to do so will result into an infinite loop.

Syntax of repeat loop

```
repeat {  
statement  
}
```

Example:

```
x <- 1  
repeat {  
  print(x)  
  x = x+1  
  if (x == 6){  
    break  
  }  
}
```

Sources of lecture

<https://www.datamentor.io/>