Repeat loops

INTERMEDIATE R FOR FINANCE



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Loops

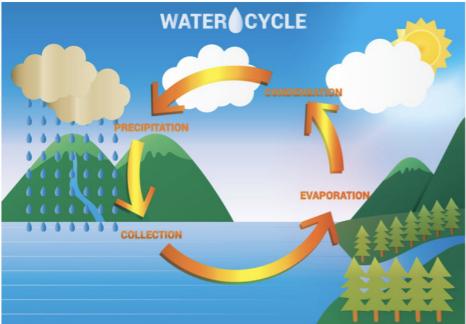


¹ tdfitness, My Daily Routine



Loops





¹ tdfitness, My Daily Routine ² John Rochelle, Water Cycle



Repeat loop

```
i <- 0
repeat {
   i <- i + 1
   print(i)
}</pre>
```

```
1
2
3
4
.
.
.
.
.
# Infinite loop!
```

Repeat loop

```
i <- 0
repeat {
    i <- i + 1
    print(i)

    if(i == 3) {
        break
    }
}</pre>
```

```
1
2
3
```

Repeatedly check a stock price

```
stock_price <- 52.1
repeat {
  stock_price <- stock_price * runif(1, .99, 1.01)
  print(stock_price)
  if(stock_price > 52.5) {
    print("Stock price is above 52.5! Sell!")
    break
  }
}
```

```
52.0491
52.42412
51.92386
51.82161
52.19669
52.43577
52.71329
"Stock price is above 52.5! Sell!"
```



Let's practice!

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While loops INTERMEDIATE R FOR FINANCE



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While loop

```
i <- 0
while(i < 3) {
    print(i)
    i <- i + 1
}</pre>
```

```
012
```

Check while true

```
stock_price <- 52.1
while(stock_price <= 52.5) {
   stock_price <- stock_price * runif(1, .99, 1.01)
   print(stock_price)
}
print("Stock price is above 52.5! Sell!")</pre>
```

```
52.01159
52.46679
52.00211
52.48659
52.99241
"Stock price is above 52.5! Sell!"
```

Let's practice!

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For loops INTERMEDIATE R FOR FINANCE



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For loop

```
one_to_five <- 1:5</pre>
one_to_five
1 2 3 4 5
for(number in one_to_five) {
  print(number)
2
3
```

Loop over a list

```
"character"
"character"
"numeric"
"logical"
```

Let's practice!

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