

# SYNTAX OF A `for` LOOP

```
years <- 2010:2017

for (i in seq_along(years)) {
  output <- paste("The year is", years[i])
  print(output)
}
[1] "The year is 2010"
[1] "The year is 2011"
[1] "The year is 2012"
[1] "The year is 2013"
[1] "The year is 2014"
[1] "The year is 2015"
[1] "The year is 2016"
[1] "The year is 2017"
```

What does this for loop do?

# SYNTAX OF A `for` LOOP

```
result <- vector(mode = "character",
                 length = length(years))

for (i in seq_along(years)) {
  output <- paste("The year is", years[i])
  result[i] <- output
}

result
[1] "The year is 2010" "The year is 2011"
[3] "The year is 2012" "The year is 2013"
[5] "The year is 2014" "The year is 2015"
[7] "The year is 2016" "The year is 2017"
```

When saving results from a for loop we want to:

1. initiate the output outside of the for loop
2. save the results from the for loop to the output