## module\_11.R

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```
# tukey_multiple <- function(x) { #Original Function from Canvas</pre>
    outliers <- array(TRUE, dim=dim(x))</pre>
#
    for (j in 1:ncol(x))
#
#
      outliers[,j] <- outliers[,j] && tukey.outlier(x[,j])</pre>
#
#
    outlier.vec <- vector(length=nrow(x))</pre>
#
    for (i in 1:nrow(x))
#
#
      outlier.vec[i] <- all(outliers[i,])</pre>
#
#
    return(outlier.vec)
#
# num <- rnorm(10000, mean = 5000, sd = 1) #Generating 10000 numbers in a
normal distribution
# sample <- matrix(data = num, nrow = 100, ncol = 100, dimnames = NULL)
#Organizing the 10000 numbers in a 100x100 matrix
# sample
# tukey multiple(sample) #Cannot find the function 'tukey.outlier'
# debug(tukey multiple(sample)) #Same result
library(funModeling)
## Loading required package: Hmisc
## Loading required package: lattice
## Loading required package: survival
## Loading required package: Formula
## Loading required package: ggplot2
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, units
```

```
## funModeling v.1.9.4 :)
## Examples and tutorials at livebook.datascienceheroes.com
## / Now in Spanish: librovivodecienciadedatos.ai
tukey_multiple1 <- function(x) {</pre>
 outliers <- array(TRUE, dim=dim(x))
 for (j in 1:ncol(x))
  outliers[,j] <- outliers[,j] && tukey_outlier(x[,j]) #Had to replace
tukey.outlier() with tukey outlier() from the funModeling package
 outlier.vec <- vector(length=nrow(x))</pre>
 for (i in 1:nrow(x))
  outlier.vec[i] <- all(outliers[i,])</pre>
 return(outlier.vec)
num <- rnorm(10000, mean = 5000, sd = 1) #Generating 10000 numbers in a
normal distribution
sample <- matrix(data = num, nrow = 100, ncol = 100, dimnames = NULL)</pre>
#Organizing the 10000 numbers in a 100x100 matrix
tukey_multiple1(sample) #There's an output now, but still not sure if the
function is operating properly...
   TRUE TRUE
TRUE TRUE
TRUE TRUE
TRUE TRUE
TRUE TRUE
TRUE TRUE
# debug(tukey multiple1(sample)) #Not sure why it's giving me an error here,
since tukey multiple() is a function.
```