semana-11.R

Usuario

2022-05-25

```
#MZZ
#24/03/2020
#Examen

# Primer problema ------------------------------------------------------
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costal <- c(87.7, 80.01, 77.28, 78.76, 81.52,74.2, 80.71, 79.5, 77.87,
81.94, 80.7, 82.32, 75.78, 80.19, 83.91, 79.4, 77.52, 77.62, 81.4, 74.89,
82.95,73.59, 77.92, 77.18, 79.8, 81.23, 79.28, 78.44, 79.01, 80.47,
76.23, 78.89, 77.14, 69.94, 78.54, 79.7, 82.45, 77.29, 75.52, 77.21,
75.99, 81.94, 80.41, 77.7)

desviacion <-sum(costal)
desviacion/44

## [1] 78.91

#Desviacion es 78.91

mean(costal)

## [1] 78.91

library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union

t.test(costal)

##
##  One Sample t-test
```

```
##
## data:  costal
## t = 171.29, df = 43, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  77.98095 79.83905
## sample estimates:
## mean of x
##     78.91

#p-value < 2.2e-16
mean(costal)

## [1] 78.91

#[1] 78.91

#H1
#t = 171.29

#si es menor a lo que anuncian los productos

# Ejercicio 2 ------------------------------------------------------------
--



azufre <- c(15.8, 22.7, 26.8, 19.1, 18.5, 14.4, 8.3, 25.9, 26.4, 9.8,
22.7, 15.2, 23.0, 29.6, 21.9, 10.5, 17.3, 6.2, 18.0, 22.9, 24.6, 19.4,
12.3, 15.9, 11.2, 14.7, 20.5, 26.6, 20.1, 17.0, 22.3, 27.5, 23.9, 17.5,
11.0, 20.4, 16.2, 20.8, 13.3, 18.1)

library(dplyr)

t.test(azufre)

##
##  One Sample t-test
##
## data:  azufre
## t = 20.696, df = 39, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  16.87912 20.53588
## sample estimates:
## mean of x
##   18.7075

#p-value < 2.2e-16
#t = 20.696
```

```r
#H1
mean(azufre)
```

```
## [1] 18.7075
```

```r
#[1] 18.7075
#si es mayor


# Ejercicio 3 ------------------------------------------------------------
--


url <- "https://raw.githubusercontent.com/mgtagle/MCF-
202_Agosto_2021/main/TEMPAIRE_DIA.csv"



temp <- read.csv(url)
library(dplyr)
mean(temp)
```

```
## Warning in mean.default(temp): argument is not numeric or logical:
returning NA
```

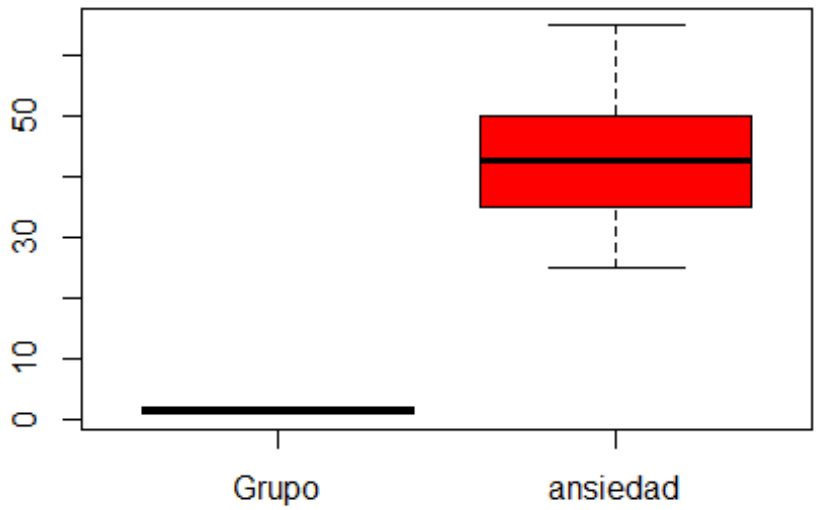
```
## [1] NA
```

```r
# Ejercicio 4 ------------------------------------------------------------
--


Grupo <-gl (2, 12, labels = c("Fotografias", "Araña"))

ansiedad <- c(30, 35, 45, 40, 50, 35, 55, 25, 30, 45, 40, 50, 40, 35, 50,
55, 65, 55, 50, 35, 30, 50, 60, 39)

datos <- data.frame(Grupo, ansiedad)
head(datos)
```

```
##         Grupo ansiedad
## 1 Fotografias       30
## 2 Fotografias       35
## 3 Fotografias       45
## 4 Fotografias       40
## 5 Fotografias       50
## 6 Fotografias       35
```

```r
#Grupo ansiedad
#1 Fotografias       30
#2 Fotografias       35
#3 Fotografias       45
```

```
#4 Fotografias       40
#5 Fotografias       50
#6 Fotografias       35

boxplot(datos, col = "red")
```




```
library(dplyr)
```