

Sscript-4_prueba_de_T.R

Usuario

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# Tamara Martinez Martinez
# 2067694
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# Prueba de t de una muestra

# Ejercicio 2
# H0 = No existe diferencias en la media es igual a 80kg.
# H1= La media observada es menor a 80kg.

## Procedimiento general para las pruebas de t de una muestra
# Ingresar datos
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, 79.83, 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)
mean(costal)

## [1] 78.91068

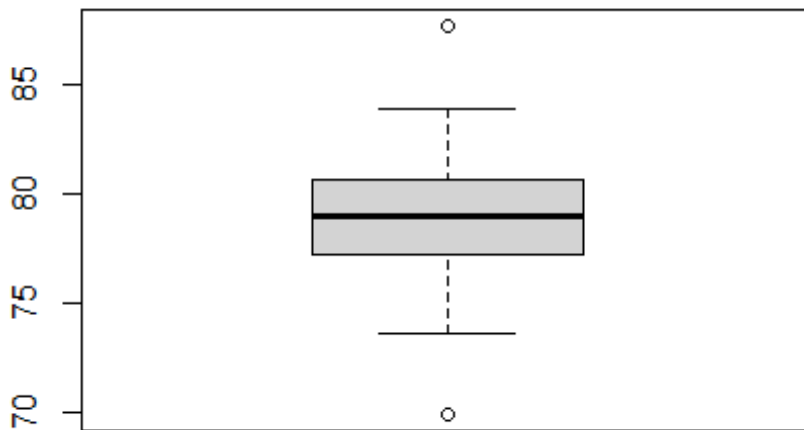
length(costal)

## [1] 44

shapiro.test(costal)

##
## Shapiro-Wilk normality test
##
## data: costal
## W = 0.97868, p-value = 0.5815

boxplot(costal)
```



```
fivenum(costal)
## [1] 69.940 77.245 78.950 80.705 87.700
t.test(costal, mu = 80)
##
## One Sample t-test
##
## data: costal
## t = -2.3644, df = 43, p-value = 0.02264
## alternative hypothesis: true mean is not equal to 80
## 95 percent confidence interval:
##  77.98157 79.83980
## sample estimates:
## mean of x
## 78.91068
```