

## Clase-3.R

USUARIO

2024-05-30

```
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## 06/05/2024  
## 2022601
```

```
# Importar datos -----  
--
```

```
library(readr)
```

```
file <- paste0  
("https://raw.githubusercontent.com/mgtagle/202_Analisis_Estadistico_2020  
/02680a60a88f56facda17fa38af265fb81f7f9f6/cuadro1.csv")
```

```
inventario <- read.csv(file)
```

```
head(inventario)
```

```
##   Arbol Fecha Especie Clase Vecinos Diametro Altura  
## 1     1    12      F     C        4     15.3   14.78  
## 2     2    12      F     D        3     17.8   17.07  
## 3     3     9      C     D        5     18.2   18.28  
## 4     4     9      H     S        4      9.7    8.79  
## 5     5     7      H     I        6     10.8   10.18  
## 6     6    10      C     I        3     14.1   14.90
```

```
tail(inventario)
```

```
##   Arbol Fecha Especie Clase Vecinos Diametro Altura  
## 45    45    24      C     I        4     10.2   13.93  
## 46    46    23      F     I        3     14.4   12.68  
## 47    47    24      C     S        6      7.7   10.00  
## 48    48    25      C     S        5      9.9    8.69  
## 49    49    25      H     D        1     20.4   16.73  
## 50    50    24      H     D        3     20.9   16.25
```

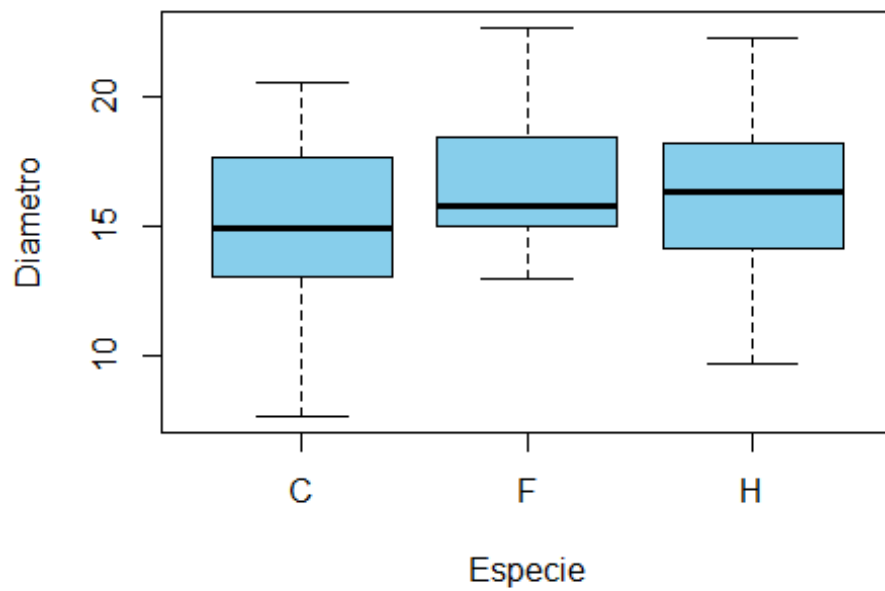
```
mean(inventario$Diametro)
```

```
## [1] 15.794
```

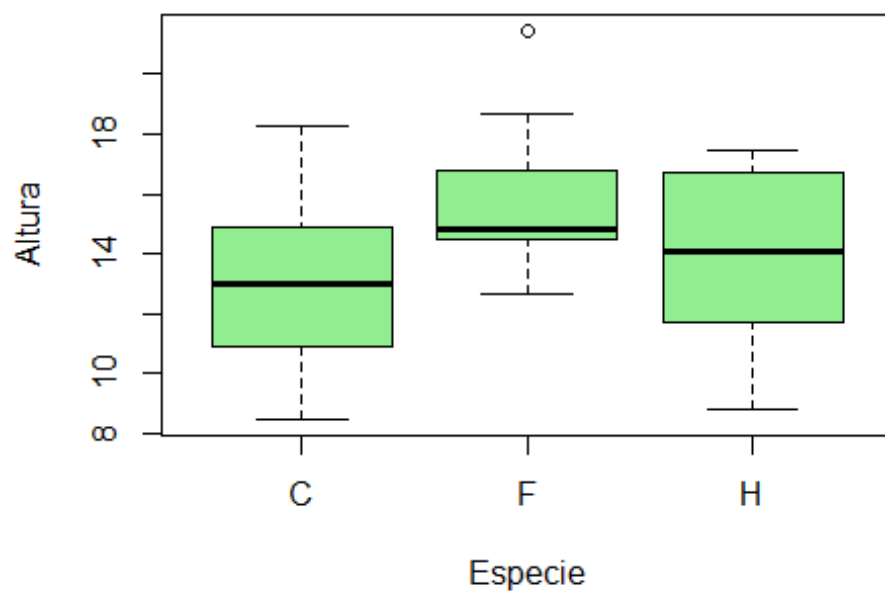
```
mean(inventario$Altura)
```

```
## [1] 13.9432
```

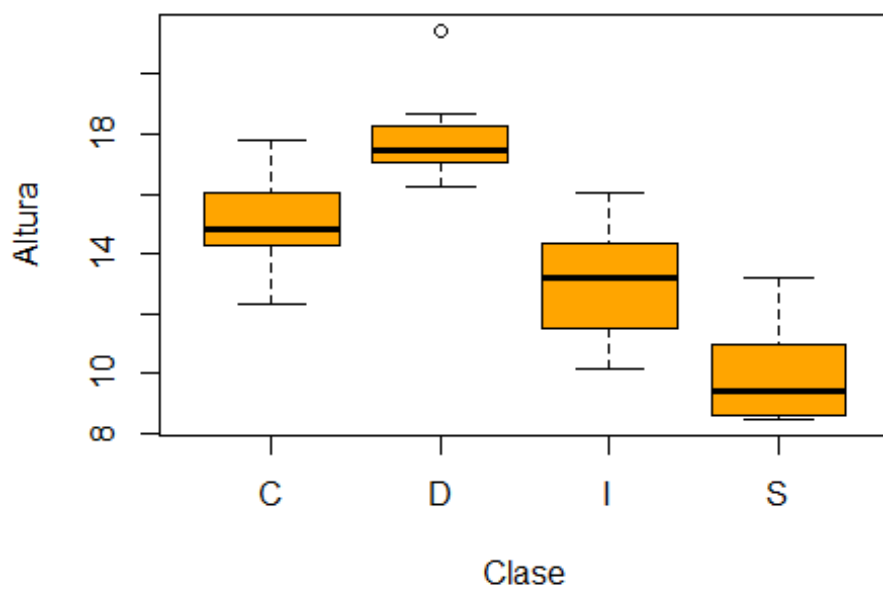
```
boxplot(inventario$Diametro ~ inventario$Especie,  
        ylab = "Diametro",  
        xlab = "Especie",  
        col = "skyblue")
```



```
boxplot(inventario$Altura ~ inventario$Especie,  
        ylab = "Altura",  
        xlab = "Especie",  
        col = "lightgreen")
```



```
boxplot(inventario$Altura ~ inventario$Clase,  
        ylab = "Altura",  
        xlab = "Clase",  
        col = "orange")
```



```
# Restricciones -----  
--  
  
sub1 <- subset(inventario, Diametro >= 15)  
sub2 <- subset(inventario, Diametro >= mean(Diametro))  
sub3 <- subset(inventario, Clase != "D" )  
  
boxplot(sub3$Diametro ~ sub3$Clase,  
        ylab = "Diametro",  
        xlab = "Clase",  
        col = "yellow")
```

