lab3.R

hp

2021-03-02

```
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DBH_1 <-
read.csv("https://raw.githubusercontent.com/Andrea1515/PrincipiosEstadist
ica2021/main/cuadro1.csv")
Conjunto <-
read.csv("https://raw.githubusercontent.com/Andrea1515/PrincipiosEstadist
ica2021/main/cuadro1.csv")
head(Conjunto)
```
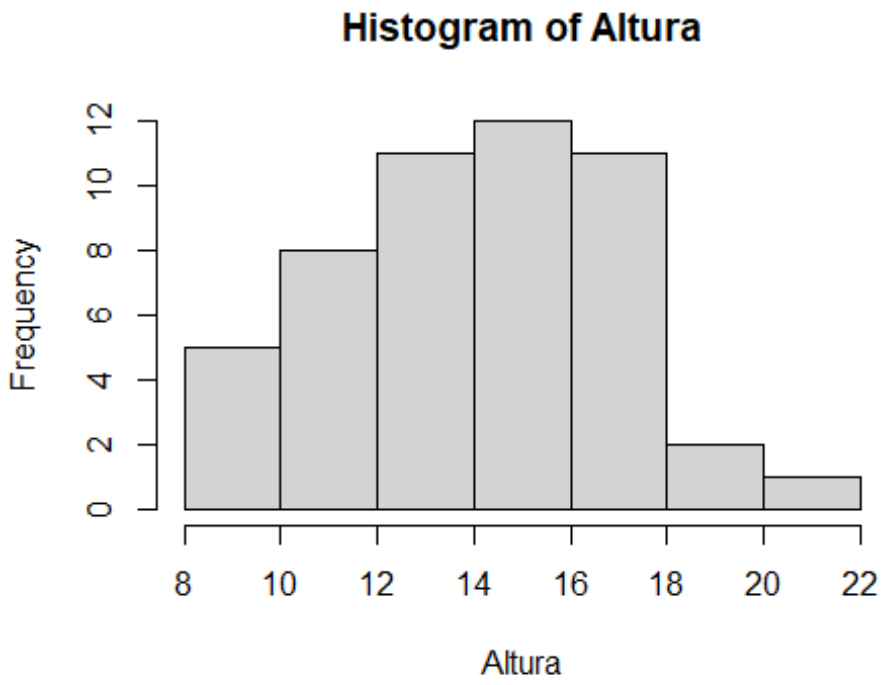

```
##   Arbol Fecha Especie Posicion Vecinos Diametros Altura
## 1     1    12       F        C       4      15.3  14.78
## 2     2    12       F        D       3      17.8  17.07
## 3     3     9       C        D       5      18.2  18.28
## 4     4     9       H        S       4       9.7   8.79
##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

```
# Altura
Altura <- c(14.78, 17.07, 18.28, 8.79, 10.18, 14.9, 15.34, 17.22, 15.15,
14.66, 17.43, 17.45, 14.18, 13.4,10.4, 11.52, 14.61, 21.46, 17.82, 11.38,
8.5, 12.8, 18.71, 14.48, 14.81, 12.01, 11.7, 16.03, 14.46, 8.47, 11.22,
12.34, 16.79, 16.06, 13.2, 14.3, 16.84, 13.84, 11.31, 13.2, 13.75, 14.6,
12.56, 10.88, 13.93, 12.68, 10, 8.69, 16.73, 16.25)
mean(Altura)
```

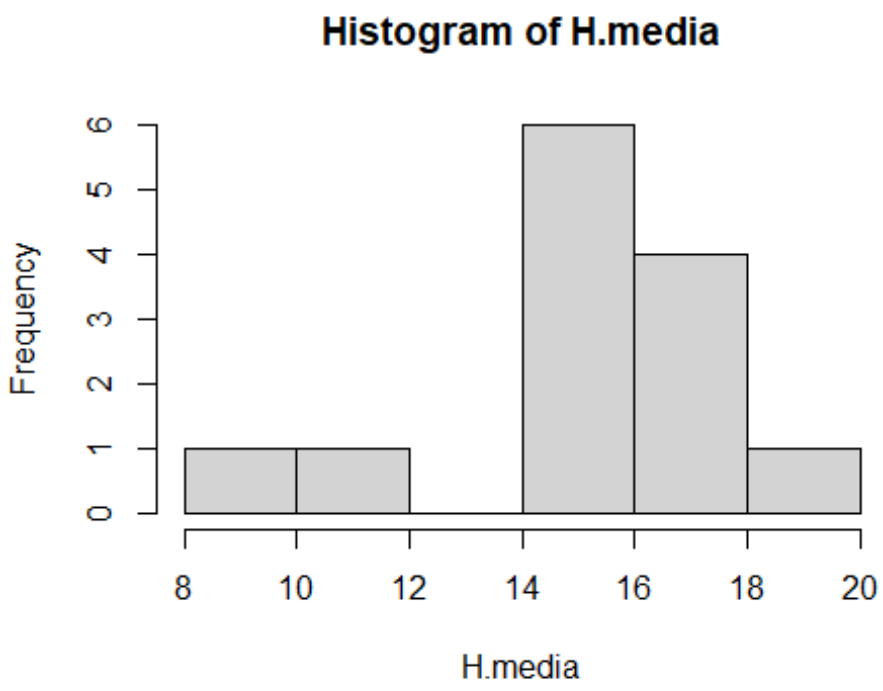
```
## [1] 13.9432
```

```
H.media <- subset(Altura, DBH_1 <= 13.9432)
H.16 <- subset(Altura, DBH_1 < 16.5)

# Vecinos
Vecinos <- c(4, 3, 5, 4, 6, 3, 2, 2, 4, 5, 3, 6, 2, 2, 4, 3, 0, 1, 4, 3,
5, 4, 1, 4, 2, 4, 3, 3, 0, 1, 3, 5, 4, 6, 4, 2, 0, 3, 4, 6, 3, 3, 4, 5,
4, 3, 6, 5, 1, 3)
Vecinos3 <- subset(Vecinos, DBH_1 <=3)
Vecinos4 <- subset(Vecinos, DBH_1 > 4)

# Diametro
Diametro <- c(15.3, 17.8, 18.2, 9.7, 10.8, 14.1, 17.1, 20.6, 18.2, 16.1,
14.2, 14.8, 19.1, 16.7, 18.9, 12.4, 17.3, 22.7, 15.1, 17.7, 13.4, 16.2,
18.5, 15, 18.8, 15.8, 16.1, 15.4, 17.8, 18.5, 14.1, 14.8, 15.5, 13.8, 13,
18.2, 22.3, 17.8, 13.1, 12.8, 13.3, 15.6, 16.6, 13, 10.2, 14.4, 7.7, 9.9,
```

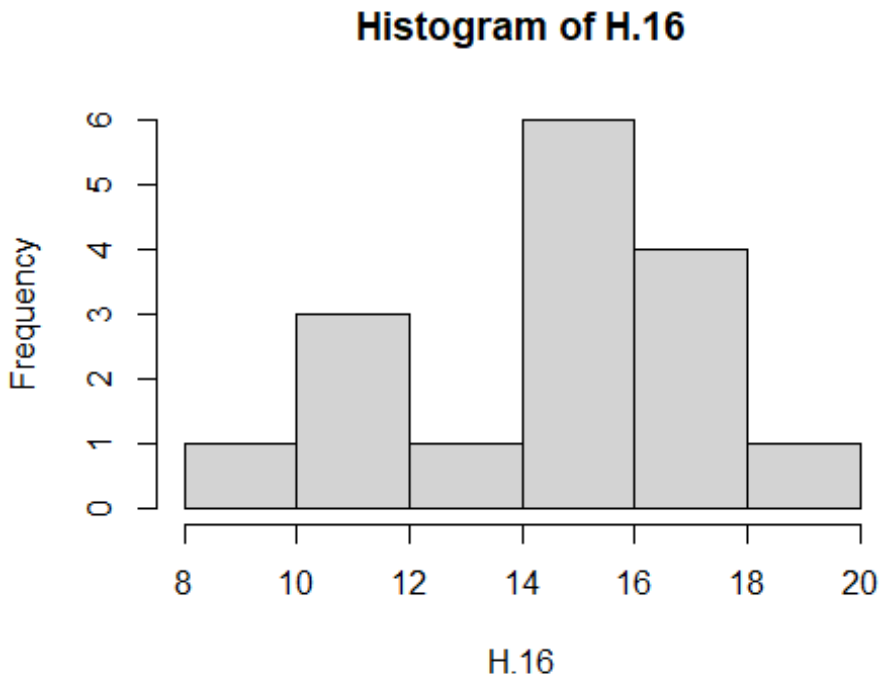
```
20.4, 20.9)
mean(Diametro)

## [1] 15.794

DBHmedia <- subset(Diametro, DBH_1 <15.794)
DBH16 <- subset(Diametro, DBH_1 > 16)

#Especie
Especie <- c("F, F, C, H, H, C, C, C, F, F, H, H, F, C, C, H, H, F, C, C,
C, C, F, F, F, H, H, C, C, C, C, C, F, F, F, H, H, H, C, C, C, F, H, C,
C, F, C, C, H, H")
Especie <- subset(Especie, DBH_1 <= 16.9)
Especie <- subset(Especie, DBH_1 > 18.5)

#Visualizacion de datos
hist(Altura)
```



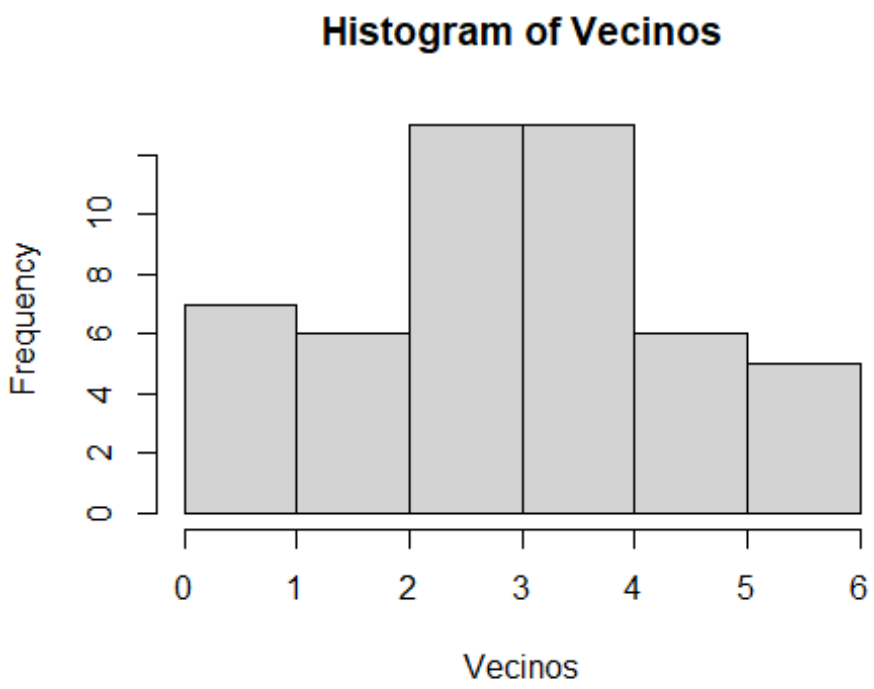

```
hist(H.media)
```



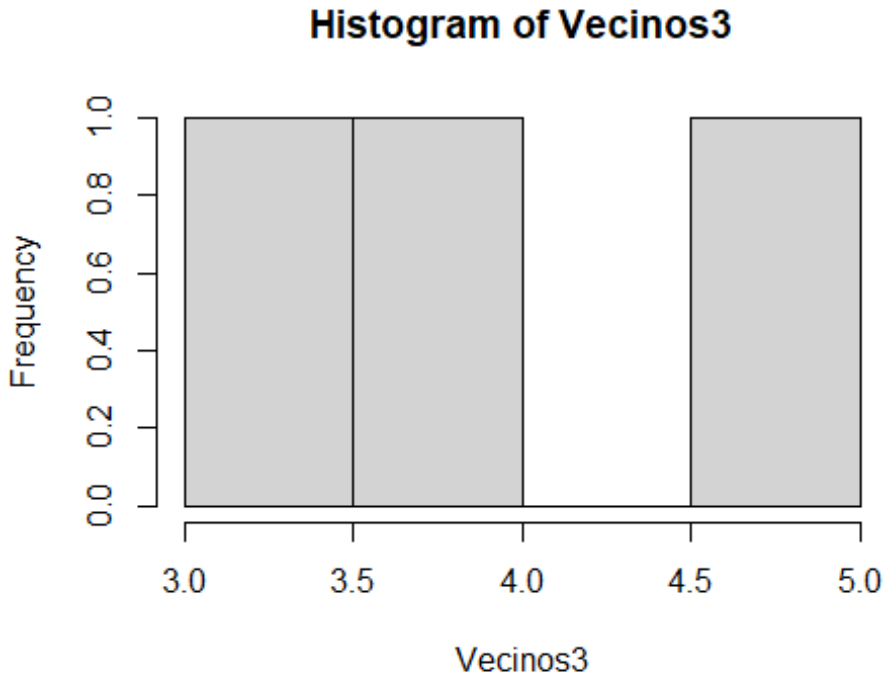

```
hist(H.16)
```



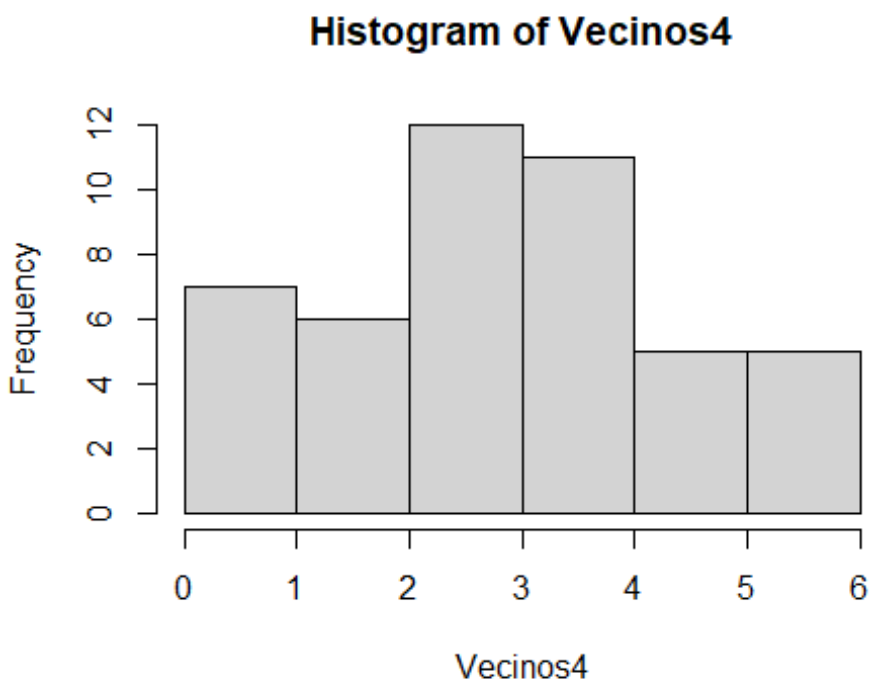

```
hist(Vecinos)
```



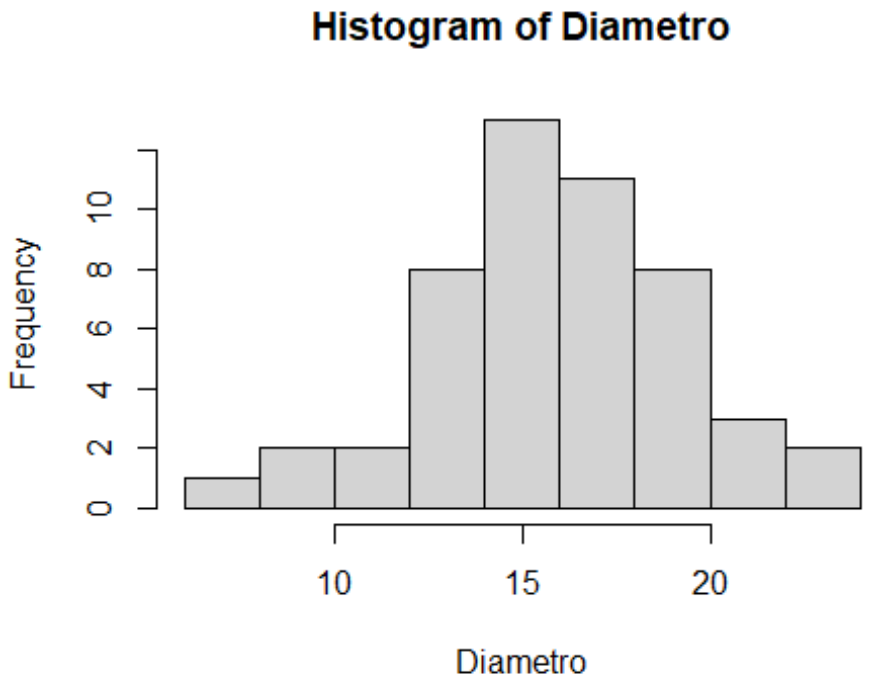

```
hist(Vecinos3)
```



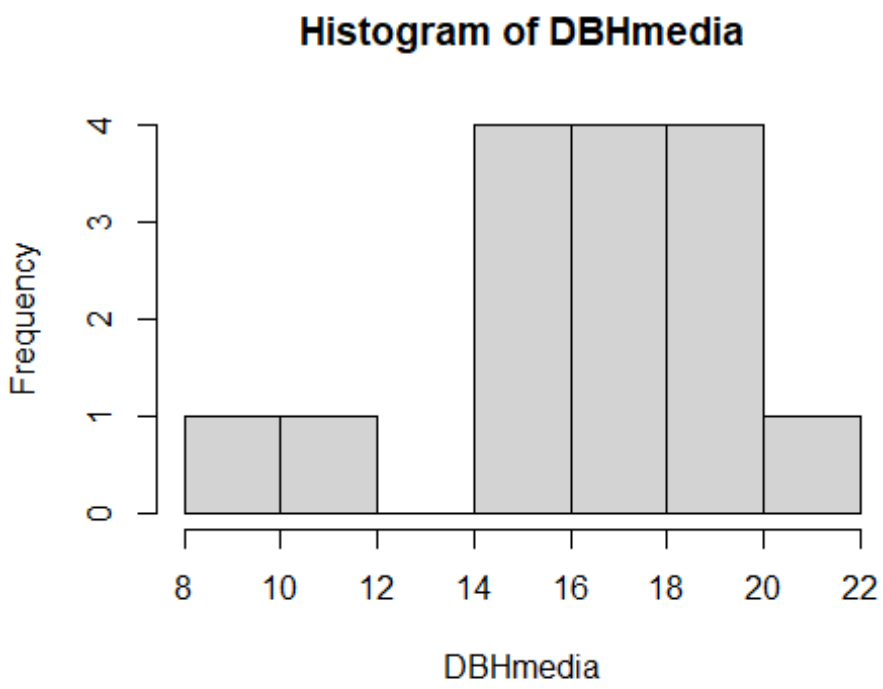

```
hist(Vecinos4)
```



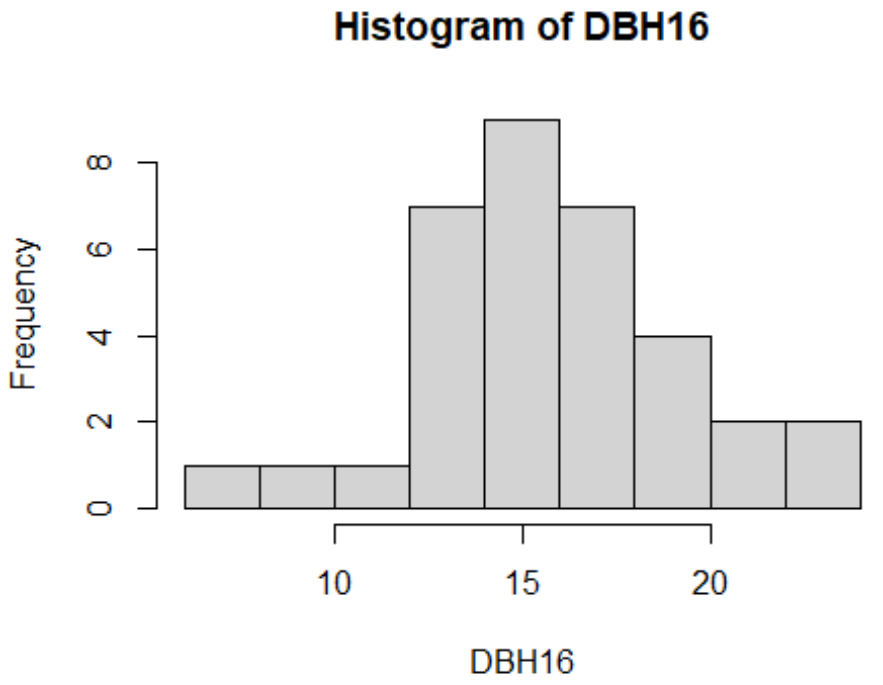

```
hist(Diametro)
```




```
hist(DBHmedia)
```




```
hist(DBH16)
```




```
#Estadistica básica
mean(Altura)
```

```
## [1] 13.9432
sd(Altura)
## [1] 2.907177
mean(H.media)
## [1] NA
sd(H.media)
## [1] NA
mean(Vecinos)
## [1] 3.34
sd(Vecinos)
## [1] 1.598596
mean(Vecinos3)
## [1] NA
sd(Vecinos3)
## [1] NA
mean(Vecinos4)
## [1] NA
sd(Vecinos4)
## [1] NA
mean(Diametro)
## [1] 15.794
sd(Diametro)
## [1] 3.227017
mean(DBHmedia)
## [1] NA
sd(DBHmedia)
## [1] NA
mean(DBH16)
```

```
## [1] NA
sd(DBH16)
## [1] NA
```