tarea_2.R

Usuario

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```
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# Laboratorio

cuadro1 <- read.csv
("https://raw.githubusercontent.com/Marimari02/PrincipiosEstadistica2021/
main/cuadro1.csv")

Conjunto <-
read.csv("https://raw.githubusercontent.com/Marimari02/PrincipiosEstadist
ica2021/main/cuadro1.csv")

head (Conjunto)
```
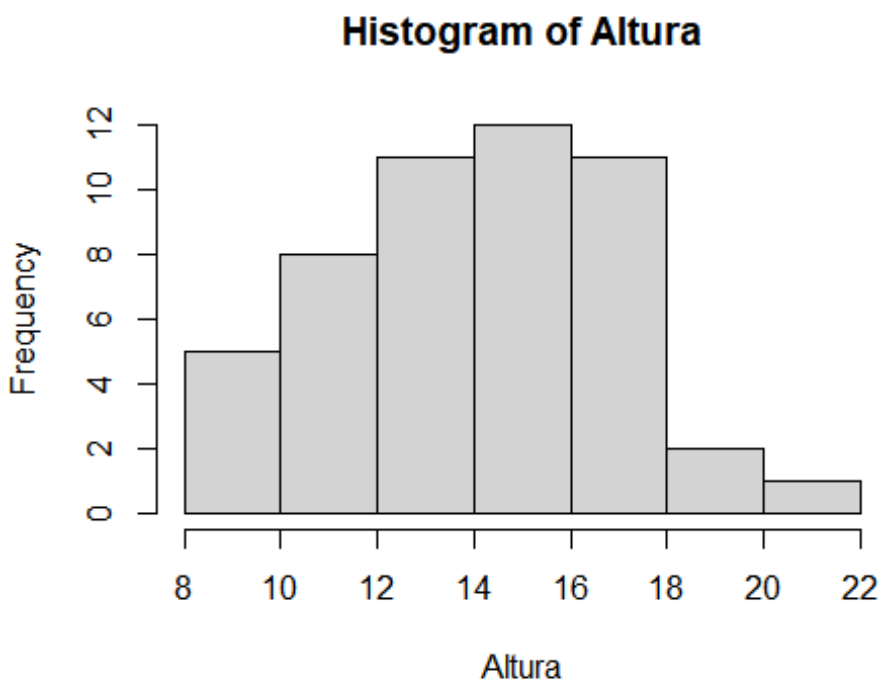

```
##   Arbol Fecha Especie Clase Vecinos Diametro Altura
## 1     1    12       F     C       4     15.3  14.78
## 2     2    12       F     D       3     17.8  17.07
## 3     3     9       C     D       5     18.2  18.28
## 4     4     9       H     S       4      9.7   8.79
## 5     5     7     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

```
# 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, 11.70, 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)
```

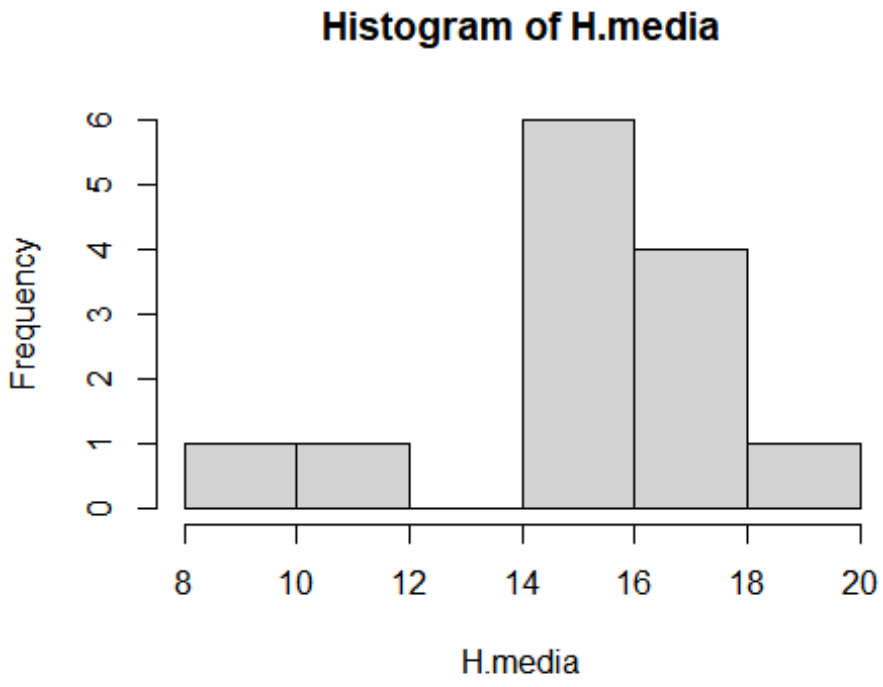
```
## [1] 13.9432
```

```
H.media <-subset(Altura, cuadro1<= 13.9432)
H.16 <- subset(Altura, cuadro1 < 16.5)
```

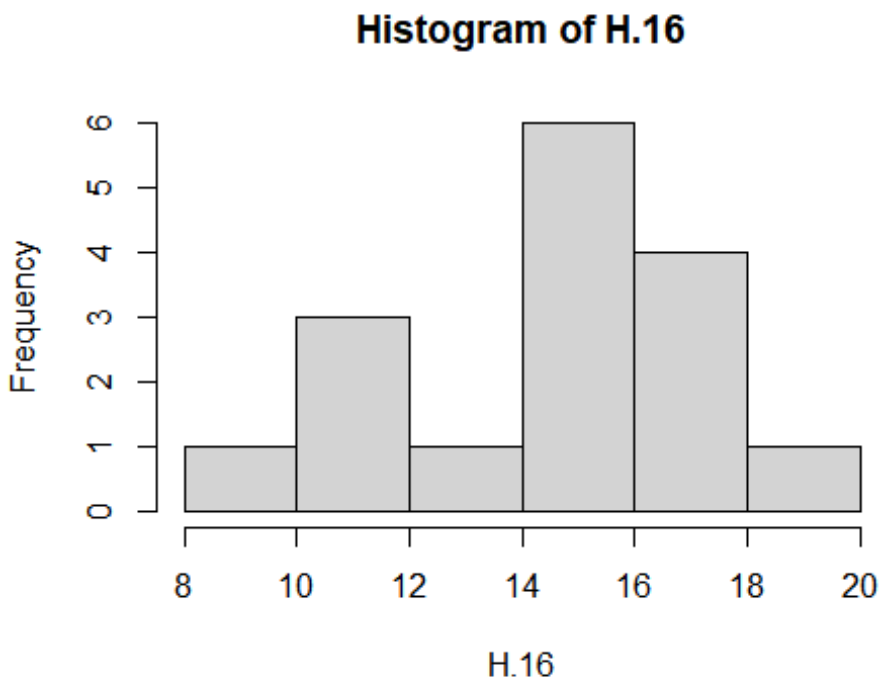
```r
# Vecinos  ------------------------------------------------------------
--

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, cuadro1 <= 3)
Vecinos4 <- subset(Vecinos, cuadro1 >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

cuadromedia <- subset(Diametro, cuadro1 < 15.79)
cuadro16 <-subset(Diametro, cuadro1 > 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, Cedro Rojo, Tsuga Heterófila, Douglasia verde")

Especie <- subset(Especie, cuadro1 <=16.9)
Especie <- subset(Especie, cuadro1 > 18.5)


# Visualizacion de los datos  ----------------------------------------
--

hist(Altura)
```



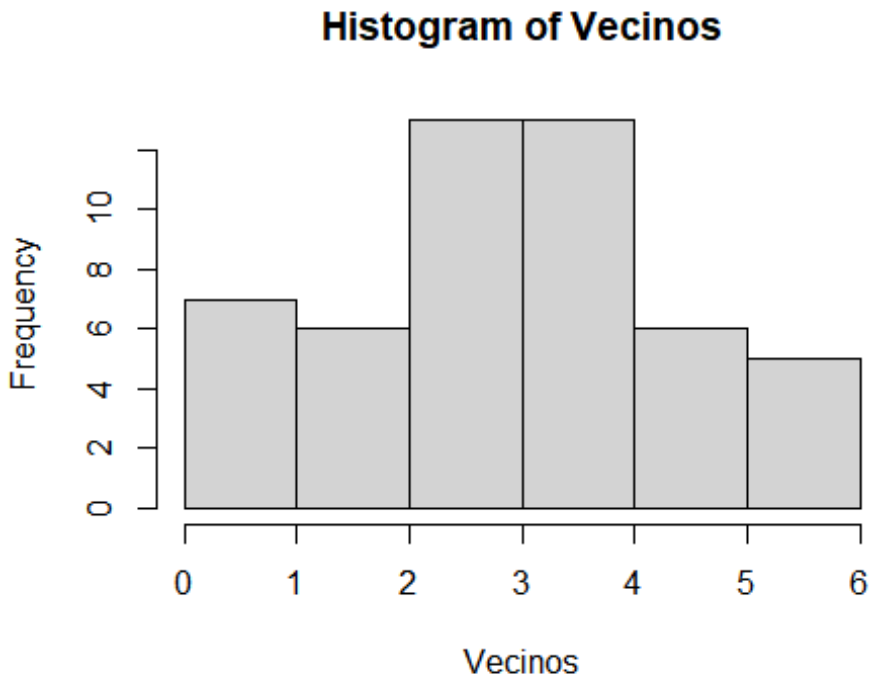

```
hist(H.media)
```



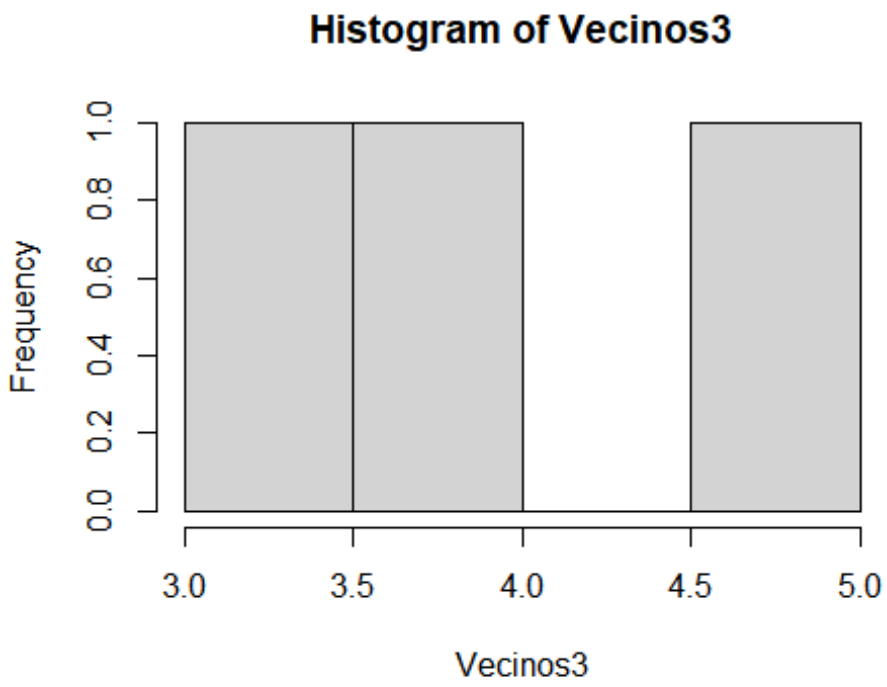

```
hist(H.16)
```



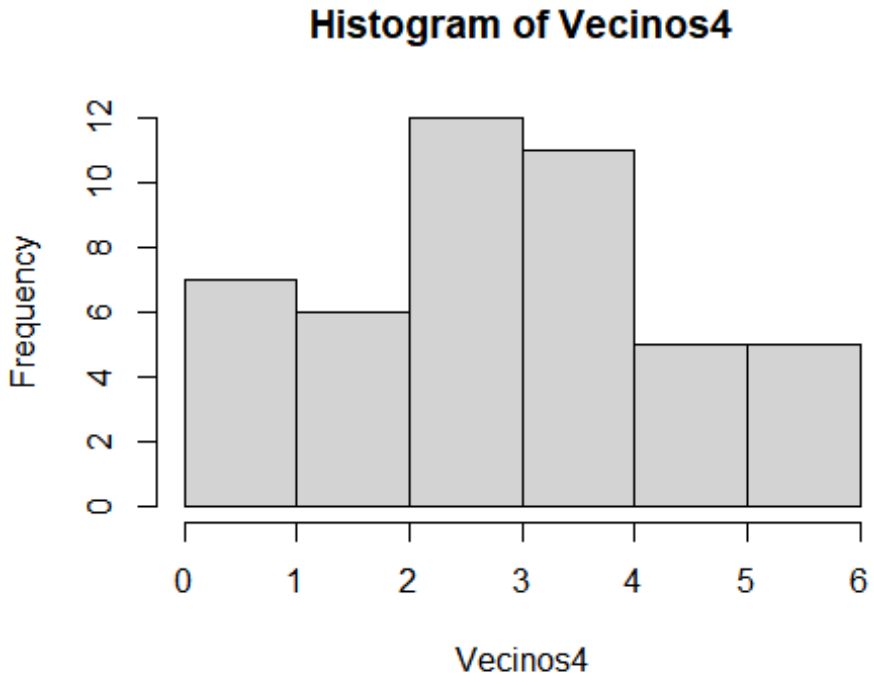

```
hist(Vecinos)
```



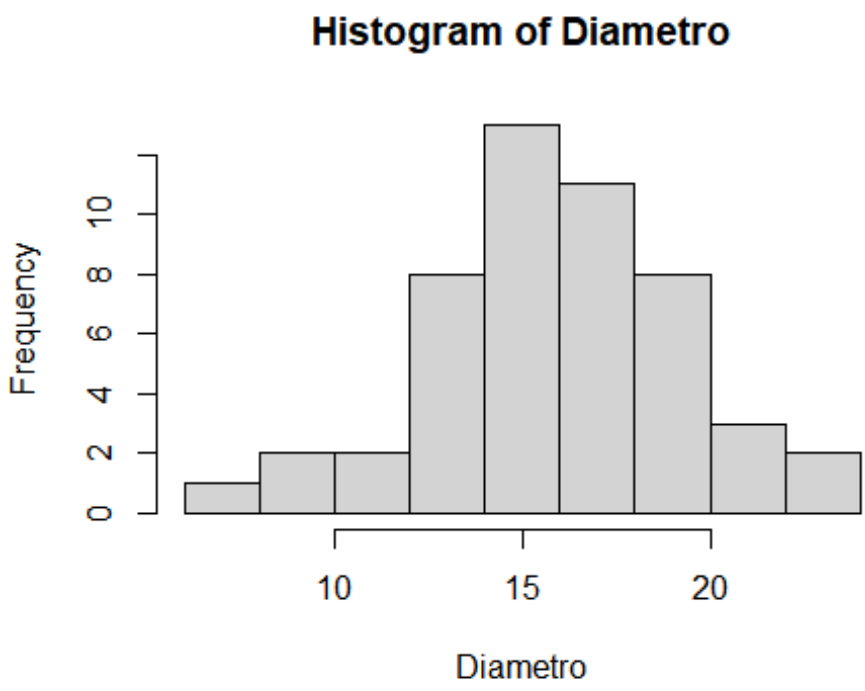

```
hist(Vecinos3)
```



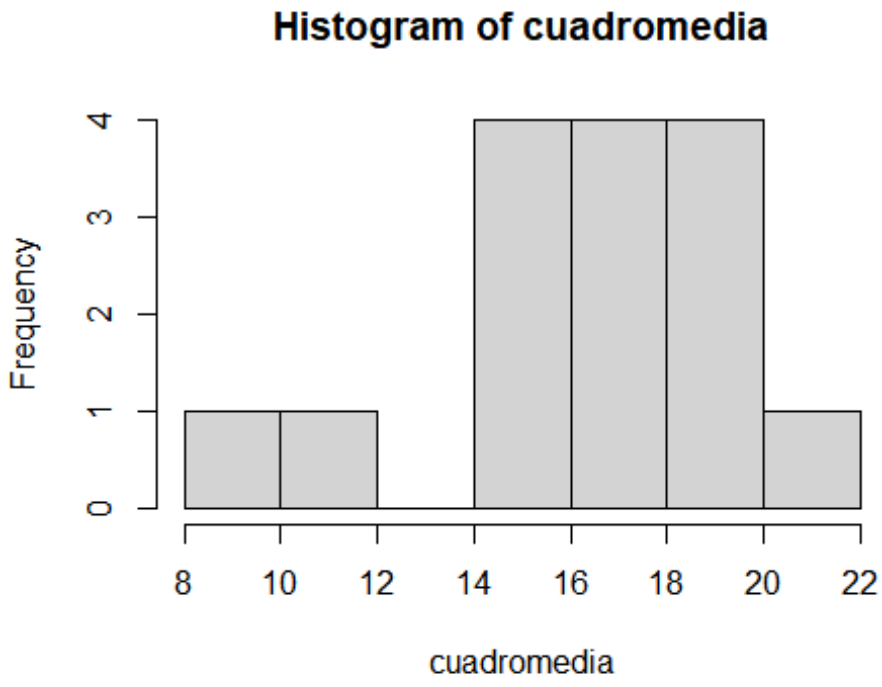

```
hist(Vecinos4)
```



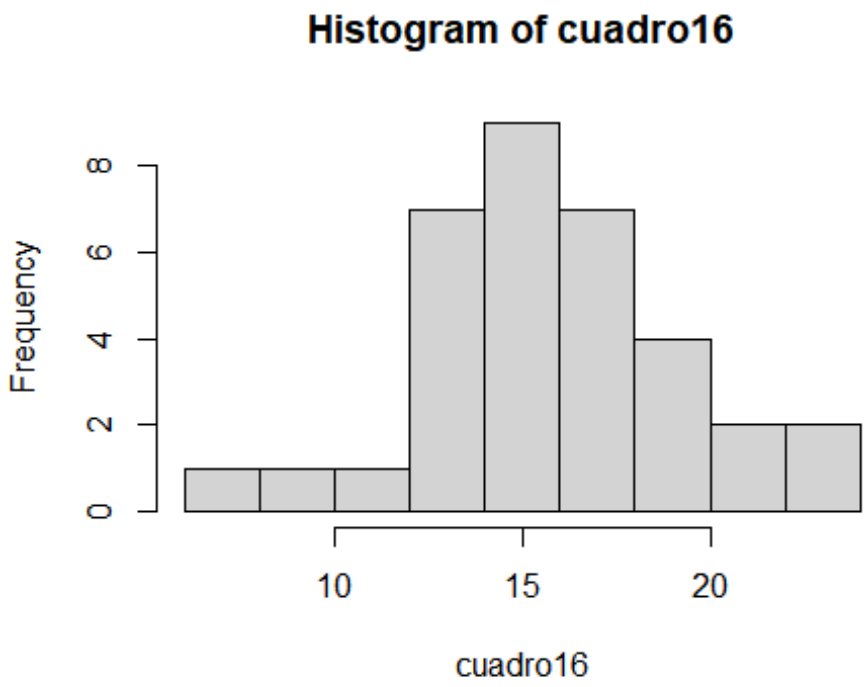

```
hist(Diametro)
```




```
hist(cuadromedia)
```




```
hist(cuadro16)
```




```
# Estadisticas basicas  ----------------------------------------------
--

mean(Altura)

## [1] 13.9432

sd(Altura)

## [1] 2.907177

mean(H.media)

## [1] NA

sd(H.media)

## [1] NA

mean(H.16)

## [1] NA

sd(H.16)

## [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(cuadromedia)
## [1] NA
sd(cuadromedia)
## [1] NA
mean(cuadro16)
## [1] NA
sd(cuadro16)
## [1] NA
```