#### Laboratorio\_Semana3.R

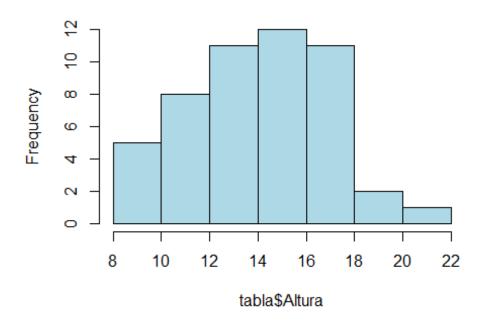
#### Usuario1

2024-08-29

```
#Laboratorio semana 3
# 30/08/2024
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#Matricula: 2019566
#IMPORTAR DATOS DE TRABAJO-----
tabla <- read.csv("C:/Repositorios_FJHN/Met_Est_2024/Clase/DATOS.csv",</pre>
header = TRUE)
head(tabla)
##
    Arbol Fecha Especie Posicion Vecinos Diametro Altura
## 1
                    F
                            C
                                  4
                                          15.3 14.78
       1
            12
                F D 3 17.8 17.07
C D 5 18.2 18.28
H S 4 9.7 8.79
H I 6 10.8 10.18
C I 3 14.1 14.90
## 2
      2 12
      3 9
4 9
5 7
## 3
## 4
## 5
## 6 6 10
#Seleccion de datos------
# Aplicar la función subset para la variable Altura------
H.media <- which(tabla$Altura <16.5)</pre>
H.media
## [1] 1 4 5 6 7 9 10 13 14 15 16 17 20 21 22 24 25 26 27 28 29 30
31 32 34
## [26] 35 36 38 39 40 41 42 43 44 45 46 47 48 50
mean(tabla$Altura)
## [1] 13.9432
H.Media <- which(tabla$Altura <= mean(tabla$Altura))</pre>
H.Media
## [1] 4 5 14 15 16 20 21 22 26 27 30 31 32 35 38 39 40 41 43 44 45 46
H.Media <- which(tabla$Altura>18.5)
H.Media
```

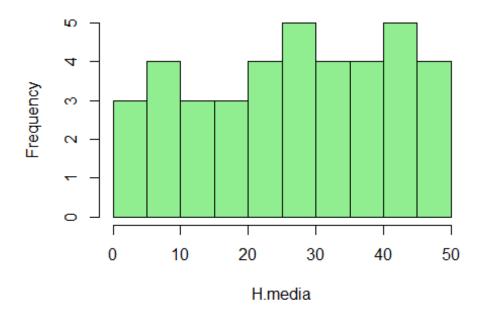
```
## [1] 18 23
# Aplicar la función subset para la variable Vecinos--------
Vecinos.3 <- which(tabla$Vecinos<=3)</pre>
Vecinos.3
## [1] 2 6 7 8 11 13 14 16 17 18 20 23 25 27 28 29 30 31 36 37 38 41
42 46 49
## [26] 50
Vecinos.4 <- which(tabla$Vecinos>4)
Vecinos.4
## [1] 3 5 10 12 21 32 34 40 44 47 48
# Aplicar la función subset para la variable Diametro-----
mean(tabla$Diametro)
## [1] 15.794
DBH.media <- which(tabla$Diametro<mean(tabla$Diametro))</pre>
DBH.media
## [1] 1 4 5 6 11 12 16 19 21 24 28 31 32 33 34 35 39 40 41 42 44 45
46 47 48
DBH.16 <- which(tabla$Diametro>16)
DBH.16
## [1] 2 3 7 8 9 10 13 14 15 17 18 20 22 23 25 27 29 30 36 37 38 43
49 50
DBH.16 <- which(tabla$Diametro<=16.9)</pre>
DBH.16
## [1] 1 4 5 6 10 11 12 14 16 19 21 22 24 26 27 28 31 32 33 34 35 39
40 41 42
## [26] 43 44 45 46 47 48
# Histogramas-----
hist(tabla$Altura, col = "lightblue")
```

# Histogram of tabla\$Altura



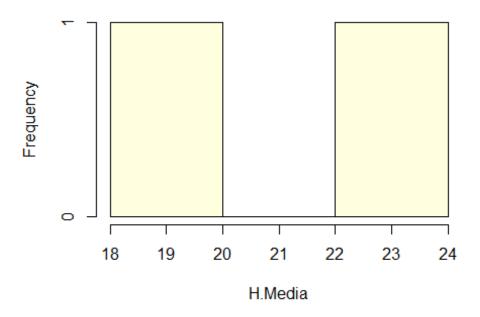
hist(H.media, col = "lightgreen")

## Histogram of H.media



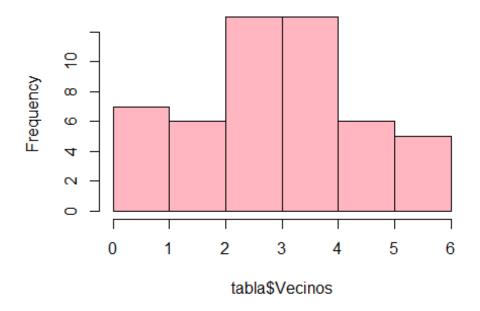
hist(H.Media, col = "lightyellow")

## Histogram of H.Media



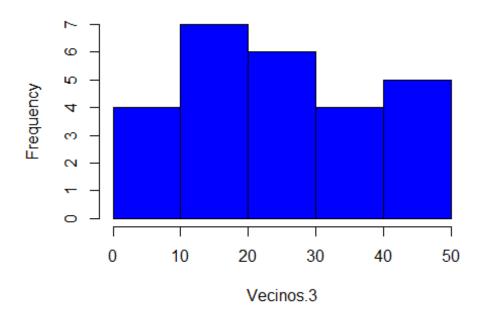
hist(tabla\$Vecinos, col = "lightpink")

# Histogram of tabla\$Vecinos



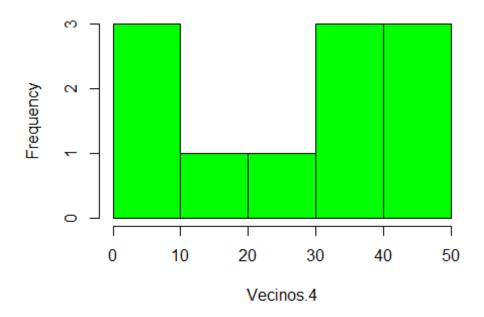
hist(Vecinos.3, col = "blue")

## Histogram of Vecinos.3



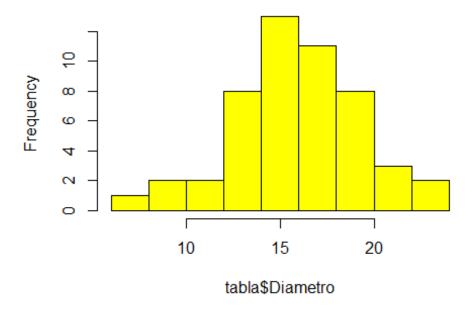
hist(Vecinos.4, col = "green")

## Histogram of Vecinos.4



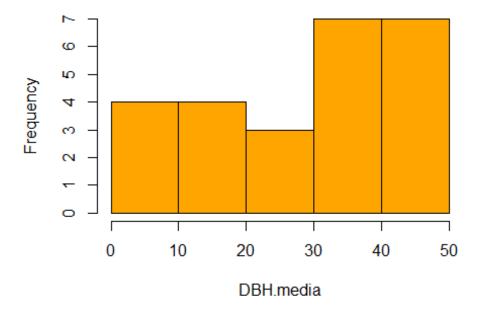
hist(tabla\$Diametro, col = "yellow")

## Histogram of tabla\$Diametro



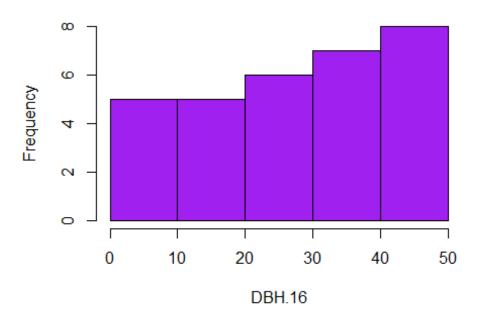
hist(DBH.media, col = "orange")

## Histogram of DBH.media



hist(DBH.16, col = "purple")

#### Histogram of DBH.16



```
mean(DBH.media)

## [1] 28.16

mean(DBH.16)

## [1] 27.29032
```