

aula_4.R

r2715590

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```
reserva = c("A","A","A","A","A","A","A","A","A","A","A","B","B","B","B","B","B","B","B","B","B")
reserva

## [1] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "B" "B" "B" "B" "B" "B" "B" "B" "B"
## [20] "B"

macacos = c(22,28,37,34,13,24,39,5,33,32,7,15,12,14,4,14,16,60,13,16)
macacos

## [1] 22 28 37 34 13 24 39 5 33 32 7 15 12 14 4 14 16 60 13 16

frutiferas = c(25,26,40,30,10,20,35,8,35,28,6,17,18,11,6,15,20,16,12,15)
frutiferas

## [1] 25 26 40 30 10 20 35 8 35 28 6 17 18 11 6 15 20 16 12 15

macac = data.frame(reserva,macacos,frutiferas)
macac

##      reserva macacos frutiferas
## 1          A      22          25
## 2          A      28          26
## 3          A      37          40
## 4          A      34          30
## 5          A      13          10
## 6          A      24          20
## 7          A      39          35
## 8          A       5           8
## 9          A      33          35
## 10         A      32          28
## 11         B       7           6
## 12         B      15          17
## 13         B      12          18
## 14         B      14          11
## 15         B       4           6
## 16         B      14          15
## 17         B      16          20
## 18         B      60          16
## 19         B      13          12
## 20         B      16          15

macac[,1]

## [1] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "B" "B" "B" "B" "B" "B" "B" "B" "B"
## [20] "B"
```

```

mode(macac[,1])

## [1] "character"
is.factor(macac[,1])

## [1] FALSE
is.character(macac[,1])

## [1] TRUE
macac$macacos

## [1] 22 28 37 34 13 24 39 5 33 32 7 15 12 14 4 14 16 60 13 16
macac$macacos[12]

## [1] 15
macac = cbind(macac, mortes=c(2,7,1,2,7,4,2,4,3,9,6,6,4,1,3,1,7,2,1,8))
macac

##      reserva macacos frutiferas mortes
## 1          A      22          25      2
## 2          A      28          26      7
## 3          A      37          40      1
## 4          A      34          30      2
## 5          A      13          10      7
## 6          A      24          20      4
## 7          A      39          35      2
## 8          A       5           8      4
## 9          A      33          35      3
## 10         A      32          28      9
## 11         B       7           6      6
## 12         B      15          17      6
## 13         B      12          18      4
## 14         B      14          11      1
## 15         B       4           6      3
## 16         B      14          15      1
## 17         B      16          20      7
## 18         B      60          16      2
## 19         B      13          12      1
## 20         B      16          15      8

macac = macac[,-3]
macac

##      reserva macacos mortes
## 1          A      22      2
## 2          A      28      7
## 3          A      37      1
## 4          A      34      2
## 5          A      13      7
## 6          A      24      4
## 7          A      39      2
## 8          A       5      4
## 9          A      33      3
## 10         A      32      9

```

```
## 11      B      7      6
## 12      B     15      6
## 13      B     12      4
## 14      B     14      1
## 15      B      4      3
## 16      B     14      1
## 17      B     16      7
## 18      B     60      2
## 19      B     13      1
## 20      B     16      8
```

```
A = macac[1:10,]
```

```
A
```

```
##      reserva macacos mortes
## 1      A      22      2
## 2      A      28      7
## 3      A      37      1
## 4      A      34      2
## 5      A      13      7
## 6      A      24      4
## 7      A      39      2
## 8      A       5      4
## 9      A      33      3
## 10     A      32      9
```

```
mean(A[,2])
```

```
## [1] 26.7
```

```
mean(A[,3])
```

```
## [1] 4.1
```

```
A[order(A$mortes),]
```

```
##      reserva macacos mortes
## 3      A      37      1
## 1      A      22      2
## 4      A      34      2
## 7      A      39      2
## 9      A      33      3
## 6      A      24      4
## 8      A       5      4
## 2      A      28      7
## 5      A      13      7
## 10     A      32      9
```