

Ex002_Faculdade.R

junio

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```
# 1 )
```

```
1:5
```

```
## [1] 1 2 3 4 5
```

```
5:1
```

```
## [1] 5 4 3 2 1
```

```
seq(1,20,5)
```

```
## [1] 1 6 11 16
```

```
# seq(20,1,5)
```

```
seq(20,1,-5)
```

```
## [1] 20 15 10 5
```

```
# 2 )
```

```
rep(6, 8)
```

```
## [1] 6 6 6 6 6 6 6 6
```

```
rep(c(2,3), 5)
```

```
## [1] 2 3 2 3 2 3 2 3 2 3
```

```
rep(c(2,3,5), 5)
```

```
## [1] 2 3 5 2 3 5 2 3 5 2 3 5
```

```
c(rep(2,4), rep(3,5)) # Está juntando todos os valres da repetição usando a função c
```

```
## [1] 2 2 2 2 3 3 3 3 3
```

```
c(rep(1,5), rep(2,3), rep(3,5))
```

```
## [1] 1 1 1 1 1 2 2 2 3 3 3 3 3
```

```
# 3 )
```

```
a <- 5:10  
print(a)
```

```
## [1] 5 6 7 8 9 10
```

```
a[3]
```

```
## [1] 7
```

```
a[1:4]
```

```
## [1] 5 6 7 8
```

```
a[c(1,4)] # Se usar mais que 1 use a função c
```

```
## [1] 5 8
```

```
a[a>7]
```

```
## [1] 8 9 10
```

```
a[a<7]
```

```
## [1] 5 6
```

```
a[c(-2,-3)]
```

```
## [1] 5 8 9 10
```

```
# 4 )
```

```
b <- seq(1, 11, 2)  
print(b)
```

```
## [1] 1 3 5 7 9 11
```

```
matriz_b <- matrix(b,nrow = 3, ncol = 2, byrow = T)  
print(matriz_b)
```

```
##      [,1] [,2]  
## [1,]    1    3  
## [2,]    5    7  
## [3,]    9   11
```

```
matriz_b[1,2]
```

```
## [1] 3
```

```
summary(matriz_b)
```

```
##           V1           V2
##  Min.    :1    Min.    : 3
## 1st Qu.:3    1st Qu.: 5
##  Median :5    Median : 7
##   Mean  :5    Mean   : 7
## 3rd Qu.:7    3rd Qu.: 9
##   Max.  :9    Max.   :11
```

```
# 5 )
```

```
c <- matrix(1:20, ncol = 4)
print(c)
```

```
##      [,1] [,2] [,3] [,4]
## [1,]    1    6   11   16
## [2,]    2    7   12   17
## [3,]    3    8   13   18
## [4,]    4    9   14   19
## [5,]    5   10   15   20
```

```
d <- cbind(c, 4:8)
print(d)
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    1    6   11   16    4
## [2,]    2    7   12   17    5
## [3,]    3    8   13   18    6
## [4,]    4    9   14   19    7
## [5,]    5   10   15   20    8
```

```
d <- rbind(d, 1:5)
print(d)
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    1    6   11   16    4
## [2,]    2    7   12   17    5
## [3,]    3    8   13   18    6
## [4,]    4    9   14   19    7
## [5,]    5   10   15   20    8
## [6,]    1    2    3    4    5
```

```
d[3,2]
```

```
## [1] 8
```

```
d[,3]
```

```
## [1] 11 12 13 14 15 3
```

```
d[3,]
```

```
## [1] 3 8 13 18 6
```

```
# 6 )
```

```
y <- array(1:16, c(4,2,2))  
print(y)
```

```
## , , 1  
##  
##      [,1] [,2]  
## [1,]    1    5  
## [2,]    2    6  
## [3,]    3    7  
## [4,]    4    8  
##  
## , , 2  
##  
##      [,1] [,2]  
## [1,]    9   13  
## [2,]   10   14  
## [3,]   11   15  
## [4,]   12   16
```

```
y[2,2,2]
```

```
## [1] 14
```