exercicios-aula_2.R

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```r
seq(1,5,1)
```

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

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

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

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

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

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

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

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

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

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

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

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

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

```r
c(rep(2,4) , rep(3,5))
```

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

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

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

```r
a = 5:10
a[3]
```

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

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

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

```r
a[c(1,4)]
```

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

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

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

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

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

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

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

```r
b = seq(1,11,2)
B = matrix(b,3,2,1)
B
```

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

```r
B[1,2]
```

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

```r
summary(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
```

```r
c = matrix(1:20,ncol=4)
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
```

```r
d = cbind(c,4:8)
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
```

```r
d = rbind(d,1:5)
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
e = array(1:16,c(4,2,2))
e
```

```
## , , 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
```