

exercicios.R

r2715615

2024-08-13

```
#1)
```

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

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

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

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

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

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

```
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))
```

```
## [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
```

```
a
```

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

```
a[3]
```

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

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

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

```

a[c(1,4)]

## [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)
b

## [1] 1 3 5 7 9 11
b<-matrix(b,3,2,1)
b

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

## [1] 3
b

##      [,1] [,2]
## [1,]    1    3
## [2,]    5    7
## [3,]    9   11
b<-summary(b)
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)
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)
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)
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
```

```
##      [,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]
```

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

```
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,]
```

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

```
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
```

```
#6)
y<-array(1:16, c(4,2,2))
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
```

```
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
```