More Functions

```
> x = c(10, 1, 3, 4, 7, 34, 23, 10, 0, 0); x
 [1] 10  1  3  4  7 34 23 10  0  0
```

Order statistics /Вариационен ред/

`sort` returns the sorted vector.
```
> sort(x)
 [1]  0  0  1  3  4  7 10 10 23 34
```

Minimal observation

`min` returns the smallest observation
```
> min(x)
[1] 0
```

Maximal observation

`max` returns the largest observation
```
> max(x)
[1] 34
```

Differences

`diff` returns the first differences
```
> diff(x)
[1]  -9   2   1   3  27 -11 -13 -10   0
```
with 'lag=2' returns the second differences
```
> diff(x, lag = 2)
[1]  -7   3   4  30  16 -24 -23 -10
```

Cummulative sums /Кумулативни суми/

`cumsum` returns the cumulative sums
```
> cumsum(x)
 [1] 10 11 14 18 25 59 82 92 92 92
```

Cummulative maximum /Кумулативни максимуми/

`cummax` returns the cumulative maximum

```
> cummax(x)
 [1] 10 10 10 10 10 34 34 34 34 34
```

Cummulative minimum /Кумулативни минимуми/

`cummin` returns the cumulative minimum

```
> cummin(x)
 [1] 10  1  1  1  1  1  1  1  0  0
```

For the next tasks you need to see the difference between `sort` and `order`.