Sort in C++11

Sort este o functie definita in <algorithm>, ce sorteaza elementele dintr-un container ce permite acces in O(1) la orice element.

Declararea din <algorithm>

```
(1)
template < class RandomIt >
void sort( RandomIt first, RandomIt last );
(2)
template < class Randomit, class Compare >
void sort( RandomIt first, RandomIt last,
Compare comp );
```

Compare

- * sort
- * set
- * map
- * priority_queue
- * nth_element
- * max
- * min

Complexitate

```
O(N·log(N))
N = std::distance(first, last) comparatii
```

Mod de functionare

Este folosit introsort, o sortare hibrida intre quicksort si heapsort.

$$depth_limit = 2 \cdot \lfloor log2(N) \rfloor$$