Bubble Sort

also known as *Sinking sort* or *Exchange sort*. It sorts the dataset by comparing adjacent elements and swapping them if they are out of order.

It is a *stable* algorithm. i.e.the order of identical elements in the output dataset is the same as in the input dataset.

Time Complexity

Best-case : O(N)
The dataset is already sorted.
Worst-case : O(N²)

The dataset is sorted but in the reverse order.