Bubble Sort → $O(n^2)$

⇒ Bubble Sort is an algorithm which is used to Sort a list of element.

Ex

The algorithm Compare two adjacent element and then Swaps them if they are not in order.

Example

First iteration

$|3,1,5,2|$

Step-1 1,3,5,2 → Compare & Swap

Step-2 1,3,5,2 → already Sorted

Step-3 1,3,2,5 → Compare & Swap

⇓

Second iteration

Step-1 1,3,2,5

Step-2 1,2,3,5

Step-3 1,2,3,5

The main example of bubble Sort is Simplicity of algorithm