Bubble Sort

The bubble sort could be considered the most simple of these algorithms. This sort works by iterating through the list comparing elements, followed by swapping them once noticing they are in the wrong order (not adhering to parameters). In comparison to the other 2 algorithms this method is slower but much more simple allowing it to be used in simple use cases.

Insertion Sort

The insertion sort has the ability to instead sort the array by taking an unsorted element and placing it into the sorted portion of the array. In comparison, to the bubble sort this would be considered a bit less simple in comparison. Insertion algorithm’s are also adaptive meaning they would be preferable over selection sorts with partially ordered data.

Selection Sort

This one divides the array into 2 regions, 1 sorted and 1 unsorted. The algorithm then selects the smallest element (or you could choose largest) from the unsorted part and swaps it with the first element in the unsorted portion. In comparison to the other algorithm’s this one may perform less swaps but it is not adaptable like the insertion sort, additionally it is faster than the bubble sort.