

Insertion sort is a sorting algorithm built on the awareness that one element from the input elements is expended in each reiteration to find its precise position, the position to which it belongs in a sorted array.

It reiterates the input elements by expanding the sorted array at each iteration. It compares the current element with the largest value in the sorted array. If the current element is greater, then it leaves the element in its place and moves on to the next element else it finds its correct position in the sorted array and moves it to that position. This is done by shifting all the elements, which are larger than the current element, in the sorted array to one position ahead.

This is diagrammatically explained below;

