Q5 Explanation

What is a stable sorting algorithm?

An algorithm that maintains the relative order of items with equal keys / values.

Is Insertion Sort a stable algorithm?

Yes

What is insertion sort space and time complexity?

Time: Worst Case O(n²)

Best Case O(n)

Space: O(1)

What is the sorting mechanism?

It works like the way you sort playing cards in your hands. The array is virtually split into a sorted and an unsorted part. Values from the unsorted part are picked and placed at the correct position in the sorted part.