1What is the order of selection sort?

The algorithm divides the input list into two parts: a sorted sublist of items which is built up from left to right at the front (left) of the list and a sublist of the remaining unsorted items that occupy the rest of the list.

2How do you identify a selection sort?

Steps involved in Selection Sort

Find the smallest element in the array and swap it with the first element of the array i.e. a[0].

The elements left for sorting are n-1 so far. ...

Continue this process for all the elements in the array until we get a sorted list

3Why is selection sort unstable?

Selection sort works by finding the minimum element and then inserting it in its correct position by swapping with the element which is in the position of this minimum element. This is what makes it unstable

4 Is selection sort the same as insertion sort?

The main difference between insertion sort and selection sort is that insertion sort performs sorting by exchanging an element at a time with the partially sorted array while selection sort performs sorting by selecting the smallest element from the remaining elements and exchanging it with the element in the correct

5 Is selection sort faster than bubble sort?

Selection sort performs a smaller number of swaps compared to bubble sort; therefore, even though both sorting methods are of O(N2), selection sort performs faster and more efficiently!

6 the advantages and disadvantages of selection sort?

The selection sort works by repeatedly going through the list of items, each time selecting an item according to its ordering and placing it in the correct position in the sequence.

The main advantage of the selection sort is that it performs well on a small list. Furthermore, because it is an in-place sorting algorithm, no additional temporary storage is required beyond what is needed to hold the original list. The primary disadvantage of the selection sort is its poor efficiency when dealing with a huge list of items. Similar to the bubble sort, the selection sort requires n-squared number of steps for sorting n elements. Additionally, its performance is easily influenced by the initial ordering of the items before the sorting process. Because of this, the selection sort is only suitable for a list of few elements that are in random order.