Extra credit. An assortment of Sorting techniques.

I think that the sorting Stability becomes roomy important when dooring with equal or repeated elements. To give on example we could use Birthdays and names.

Lets say we have the following info: Birthday Name person 1/1/2005 Jack A 2/25/2005 B Karen 7/21/2005 (Linda 1/1/2005 D George

If we are sorting by hames then Botony for an unstable sorting a gorithm it and lock like this.

Sorted by names: DABC

Then by birthday: ADBC

This is possible to happen because A and D have the same birthdays despite Grearge being before by name Sorting. This is a possible error that could occur with an unstable sorting algorithm like Quick sort. A Stock algorithm on the other hand would handle duplicates property and sorting by different things wouldn't effect it negatively

This is the biggest problem is a Sorting algorithm deesn't have the stability holding good. Since it doesn't guarantee how duplicate elements one treated, it could cause a red big issue when so ming specific data.