**QUICK SORT :**

Quick sort complexity is logn but in worst case scenario its complexity is n^2

Worst case happens when in partitioning the pivot lies in one side and the other side consists of other array elements

That is pivot is in end points either low or high

So what to do now choosing a better pivot will help us ? like median of a[low] , a[mid] ?

But its not , there are some cases in array which gives worst case complexity of n^2 even with these cases.

To overcome this we can use randomized quick sort that is use random element as pivot.

This surely does not provide us a definite nlogn but there are more chances of not getting n^2 .