**LAB 2**

**by**

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**Zeta = Selection**

reason : # of comparisons is always the same in all case. O(n^2)

Time is almost the same in all ..

**Theta = Insertion**

reason:because when in-order, it’s O(n)

and worst case when reversed. O(n^2)

**Gamma = Quick sort**

reason: comparisons and time are max when in order or reverse order.

**Epsilon = Heap sort**

reason: Order doesn’t matter, O(nlogn) in all cases.

And movements is lesser than of merge sort.

**Alpha = Merge sort**

reason: no of movements is the same regardless of order of the list.