Merge Sort. Such Sorting Technique that is using divide and conquest technique whose time complexity is in worst case i.e. O(nloyn) 1) It fint divide the onay in to equal parts and then merge them in equal parts in a sorted manner. Now it works? let's take an Example: We have an away 14 33 27 10 35 1.9 42 44 Divide the anay into two halves. 14 33 27 10 35 19 42 44 No Sequence charged we will divide feuther 14 33 97 10 35 19 42 44 Further divide to acheive the atomic value 14 [33] - 27 [10] [35] [19] [42] [44] NON Companing will take place Compare 14 and 33 which are already in sorted manner compare 27 and 10, sort them and so on 27 | 33, 19 | 35 | 42 44 10

Algorithm: (merge Sort)

Step 1:- Divide the lut into two holves

Step 2:- We divide and Conquer rule to achieve the atomic value.

Step 3:- Amonge or Sort the list/concey

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Step 4: Merge the smaller lists into a single list in new Sorted order.