





Merge sort runs on O(n, 10g, n) time. When each away was being sorted, it took (the ceiling of) 10g, n passes for the entire away to be split up into individual one element arrays. This is because, like binary search, it reduces the field of vision by 2 with each pass, as it takes n items and compares them with every other element in the array ine merging process time of O(n 10g, n).