

Richard: n=10 [0,6,7,2,8,5,1,9,3,4] Explanation. The efficiency of merge sort seems to increase as the [5,1,9,3,4]0 data size gets larger. for example away Richard and array Willam have a difference of 6 elements in the array yet they require the same humber of passes. This means that it is more faster than O(n) rentime so it has to be O(logn). [0,6,7] [0,2,6,7,8] [1,3,4,5,9] [0,1,2,3,4,5,6,7,8,9] 8 William: h=16 [12, 9, 15, 10, 6, 16, 7, 2, 8, 13, 5, 1, 14, 3, 4, 11] [12,9,15,10,6,16,7,2] [8,13,5,1,14,3,4,1] [6,16,7,2] [8,13,5,1] [12,9,15,10] [6,16] [7,2] [8,13] [5,1] [14,3] [4,1] ③ कि द्वार्त कि त्या है। त्या कि कि त्या कि के [6,16] [2,7] [8,13] [1,5] [3,14] [4,11] (5) [9,10,12,15] [2,6,7,16] [1,5,8,13] [3,4,11,14] @ [1,3,4,5,8,11,13,14] (7) [2,6,7,9,10,12,15,16] [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16]8