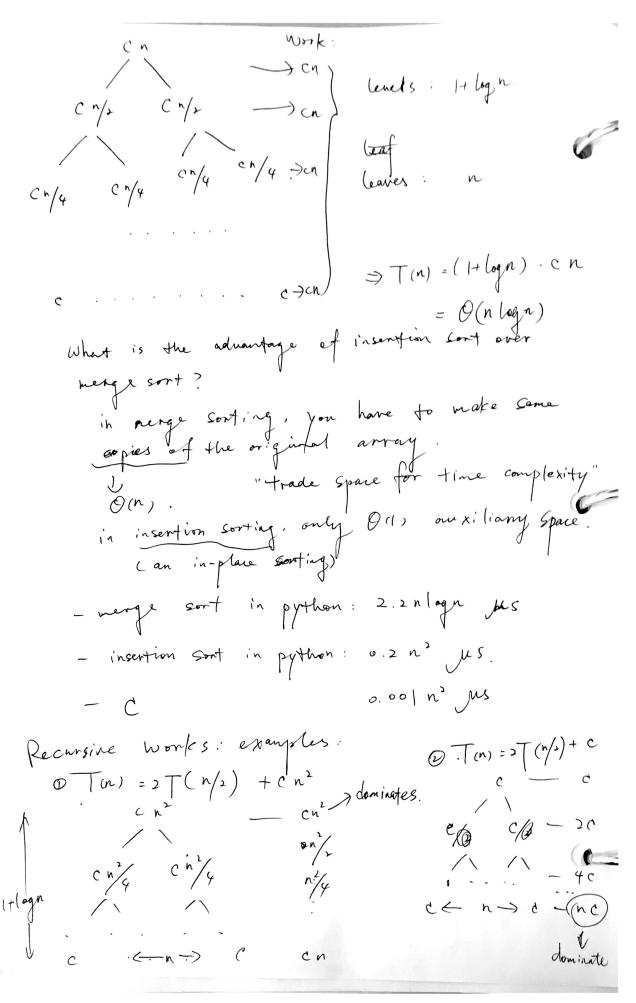
01/13/2019 MIT 6006. Lecture #3. Sorting array A[o:n] -) B[0:n] Not obvious apps: data compression Binary Search: I Insertion Port. computer graphics For i = 1, 2 ..., n. & insert A[i] into sorted array A[o:i-1]. companies swaps down to the correct position.

(n2)

(n2) kinany search? O(nlogn). 24/5/6/13 asymptotic complexity

(9, 0. 1 2 4 5 6 3 2. Merge Sort. two finger algo 1 2 7 9 11 12 13 20 Oxnxlog(n) it s a recursive algo. Complexity: T(n) = c1 + 2T·(n/2) + (n) merq



B.