B10901163張顥譽

EDA union lab machines\_Port:40060



Insertion sort : For average case and worst case ,time complexity is order O(,but for the best case ,time complexity is order O(n).

Merge sort : For all kinds of case ,time complexity is order O(nlgn) ,so for case2 ,merge sort is slower than insertion sort.

Quick sort : For best case and average case ,time complexity is order O(nlgn),but for the worst case ,without RANDOM-Quicksort ,time complexity is order O( ,same as insertion sort.

Heap sort : For all kinds of case ,time complexity is order O(nlgn) ,so for these 3 cases ,merge sort and heap sort have similar trendline.