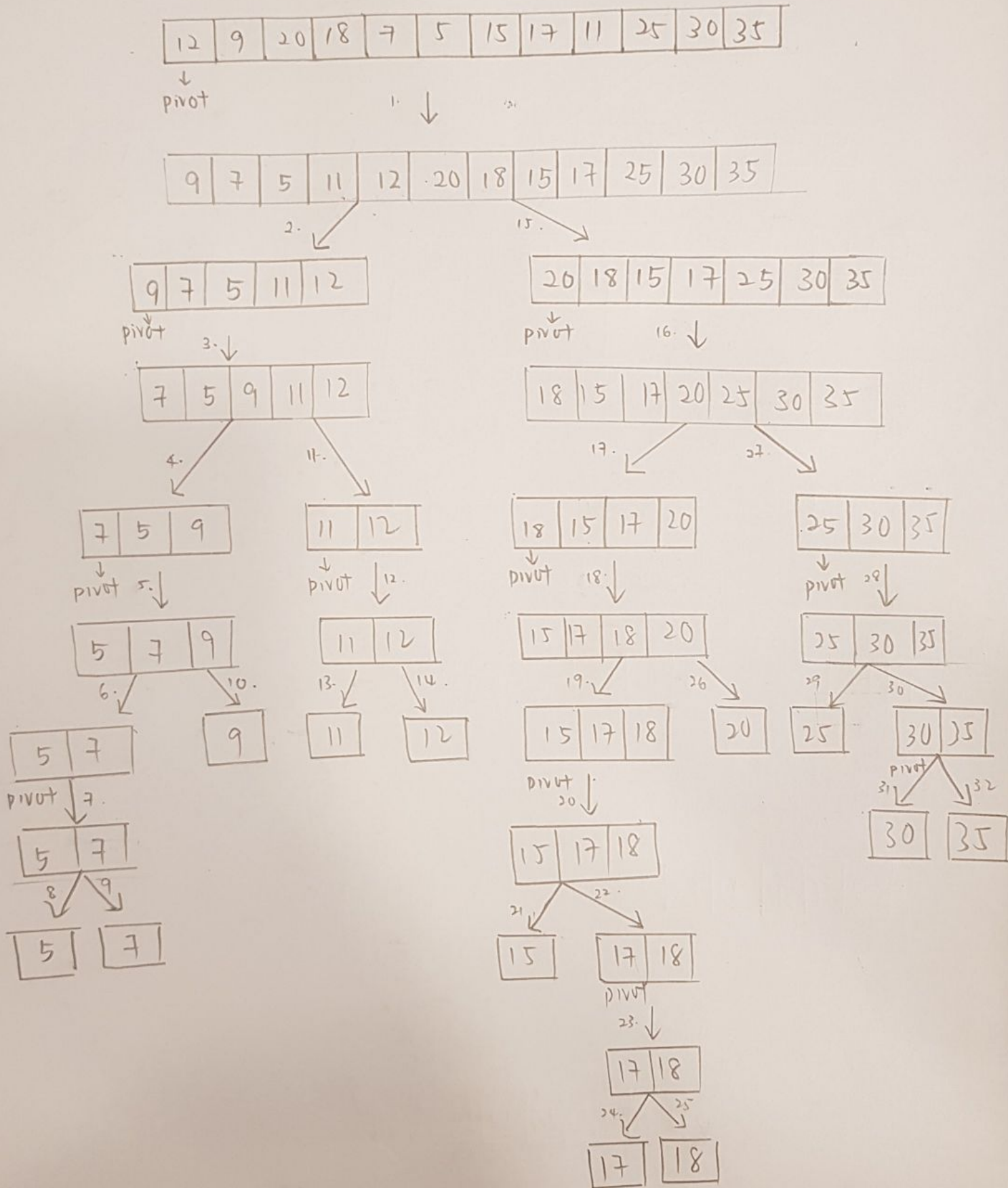


LAB 2 DSA

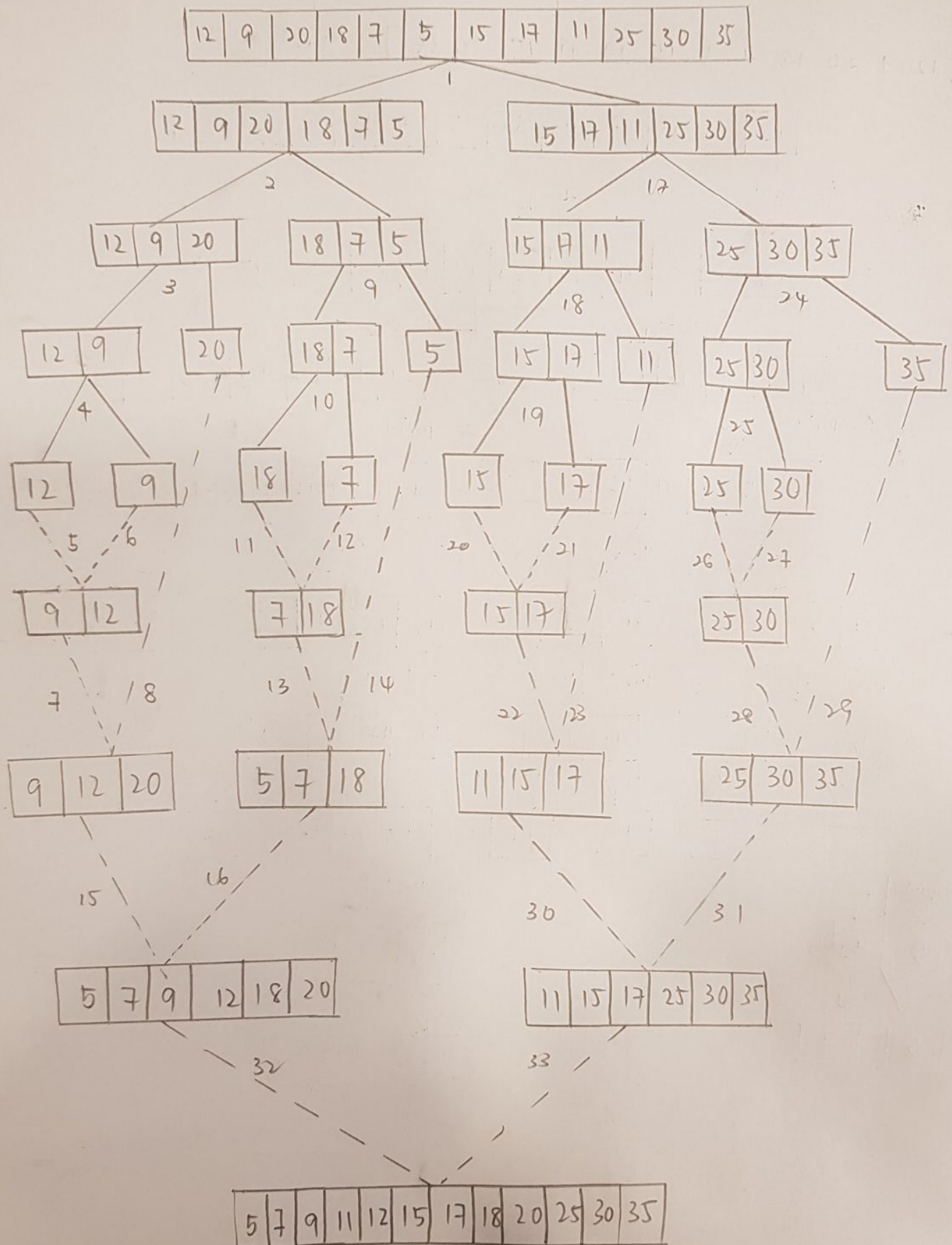
NG JING ER A19EC0115

[12 9 20 18 7 5 15 17 11 25 30 35] (Quick sort)



LAB 2 DSA
NG JING ER

(MERGE SORT)



merge sort is more efficient compared to quick sort.

This is because the growth-rates of time for merge sort is $n \cdot \log_2 n$ while for quick sort is n^2 . as the order of growth is such that $O(\log_2 n) < O(n^2)$.