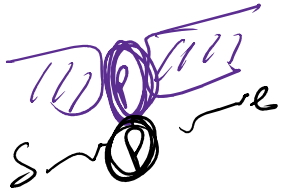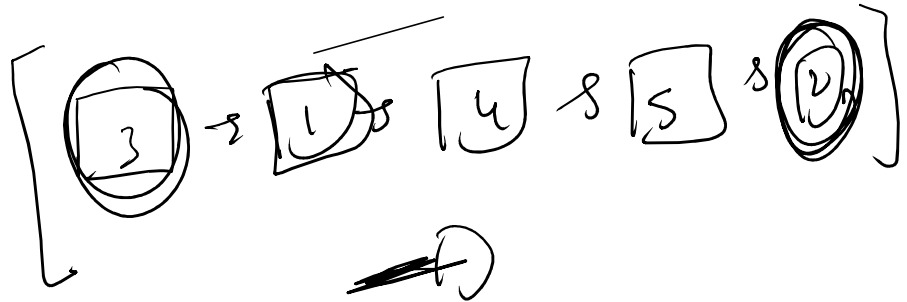# Quick Sort on Linked List

3 4 1 7 5 (2) Pivot

Quick Sort (arr, s, e) {

P → index of the pivot
(P) = partition (arr, s, e)

quick sort (arr, s, P-1);
quick sort (arr, P+1, e);

}

[(3) → 1 4 5 (2)]

→ put all the elements in an array

→ Sort the array using Quick Sort

→ Put the array elements into a linked list

Merge Sort on Linked List

ms   ms

merge

mergeSort (arr, s, e) {

int mid = $\frac{(s+e)}{2}$

ms (arr , s, mid);

ms (arr, mid+1, e)

merge (arr, s, e);

}