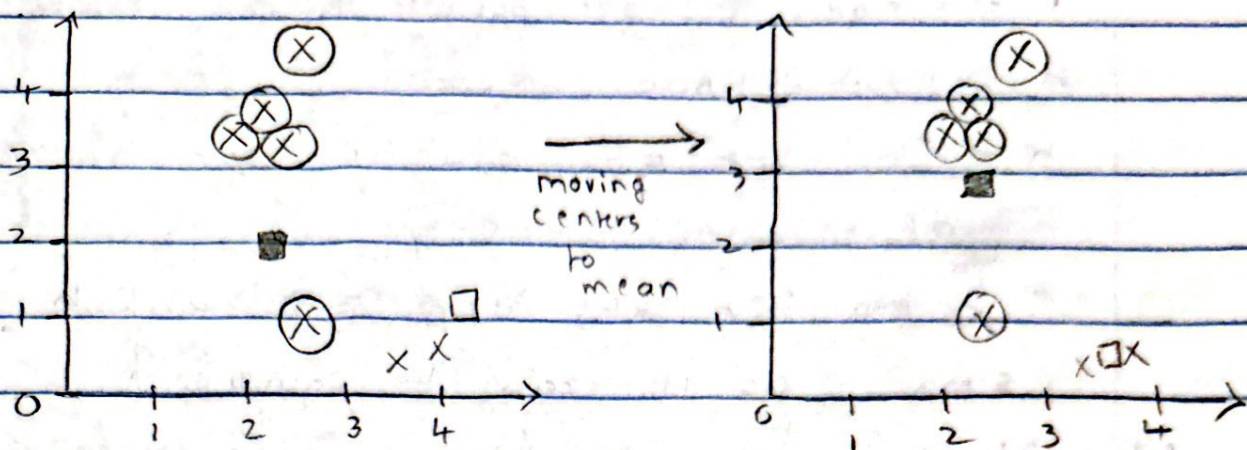


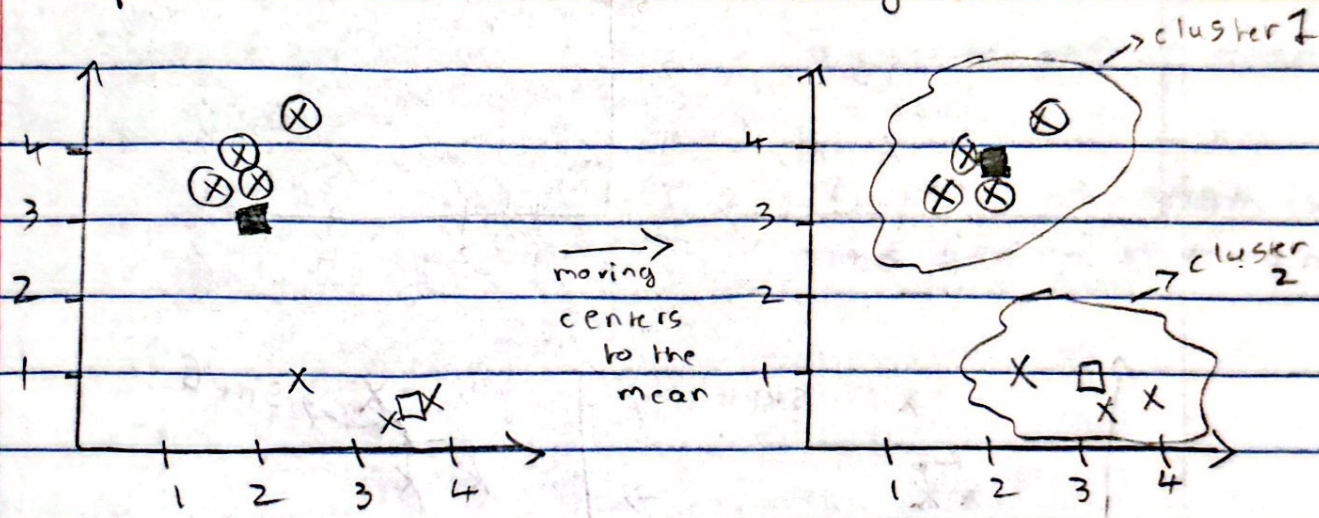
a] It converges in 2 steps
Step 1]



Points marked with \bigcirc go to cluster 1

step 2]

1 point from cluster \blacksquare will go to \square



b] No, single link has $O(n^2)$ time complexity
& complete-link has $O(n^3)$. This is
because minimum distances remain same
even if we merge two clusters, we only need to
calculate them once. After merging ~~two~~ 2 clusters,
new min is min of both original clusters.
This is not true for the complete link