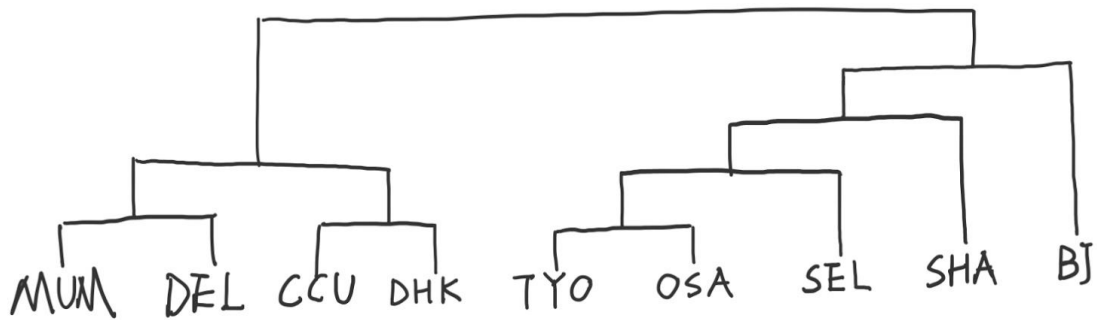


(a) i.



ii. Cluster1: MUM, DEL

Cluster2: CCU, DHK

Cluster3: TYO, OSA, SEL, SHA, BJ

(b) i. Cluster 1: TYO, BJ, OSA, SEL

Cluster 2: DEL, SHA, MUM, DHK, CCU

ii. new cluster centers  $c1 = (36.98, 129.65)$

new cluster centers  $c2 = (25.08, 90.08)$

iii. Cluster 1: TYO, SHA, BJ, OSA, SEL

Cluster 2: DEL, MUM, DHK, CCU