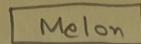
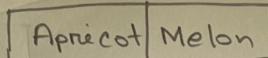


Question - 1

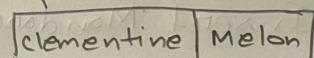
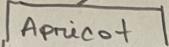
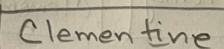
Insert Melon,



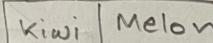
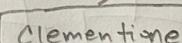
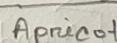
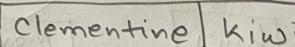
Insert Apricot,



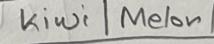
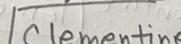
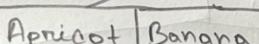
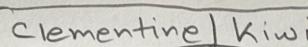
Insert Clementine,



Insert Kiwi,

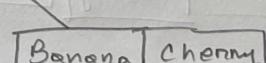
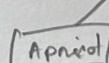
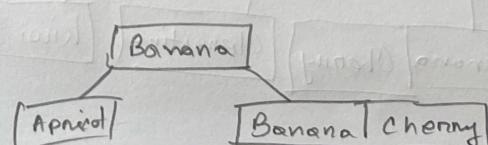


Insert Banana,

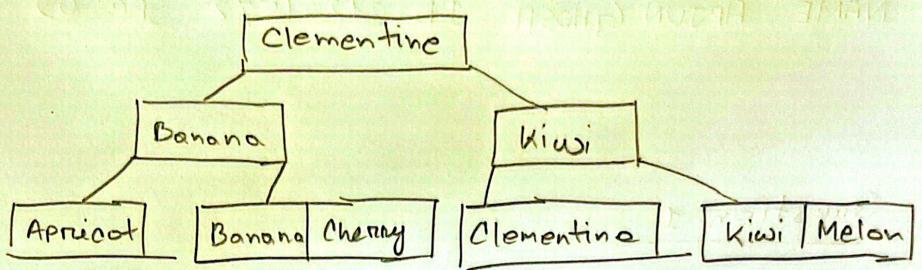


Insert Cherry,

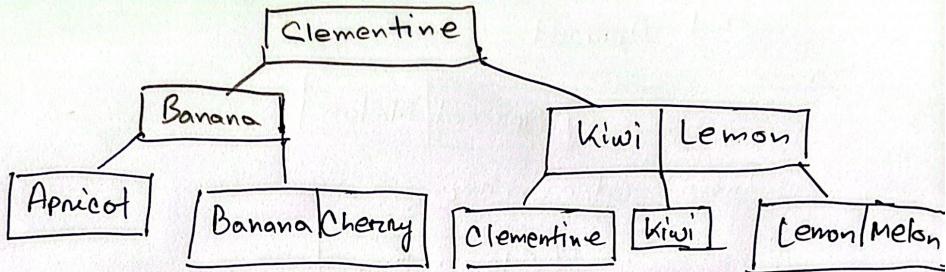
→ First 1st red child node will split.



then the root will split to
for n

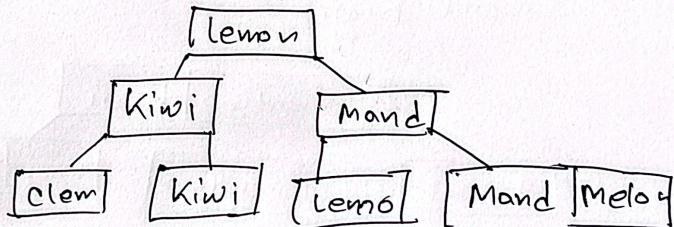


Insert Lemon,

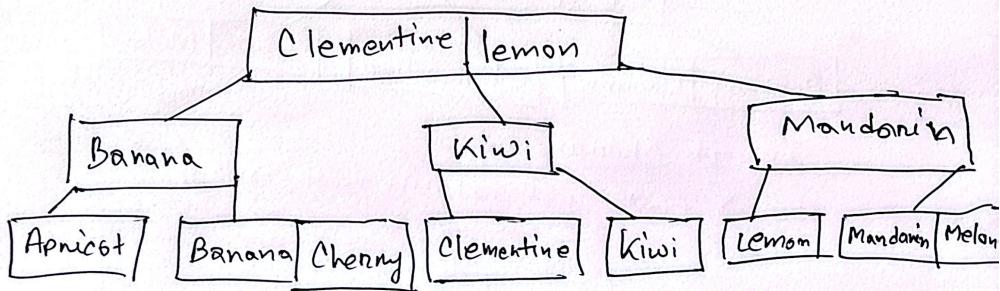


Insert Mandarin,

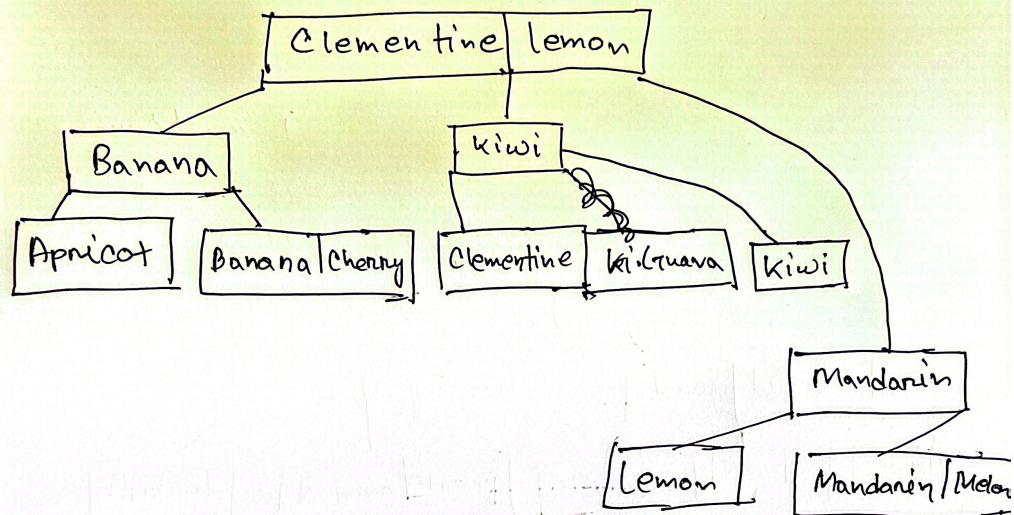
first it will split 2nd child node.



Then It will again Split to form



Insert Guava,



Hence, Guava is added beside
Clementine in the leaf node.