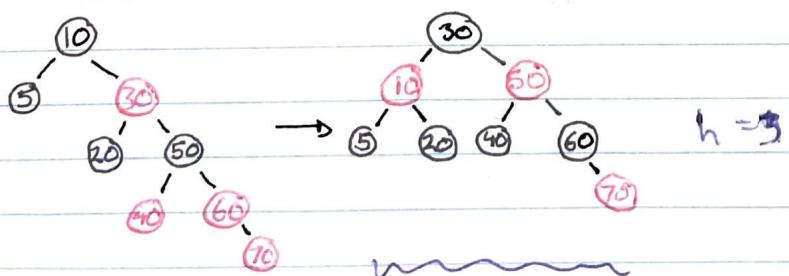
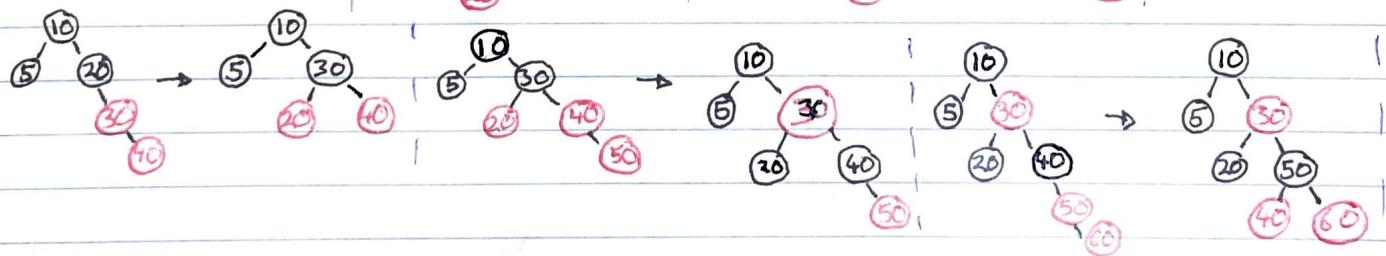
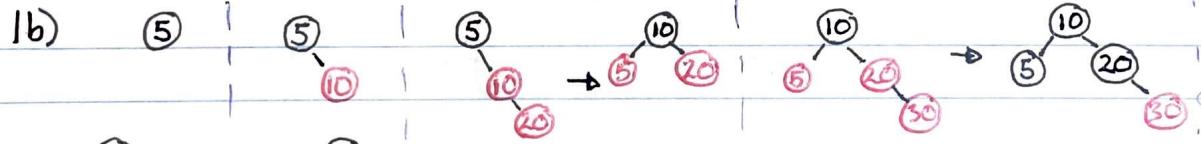
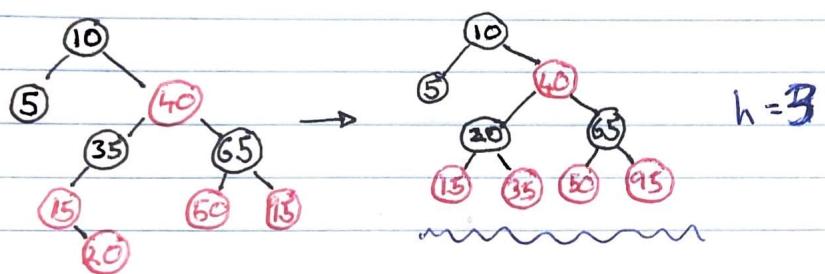
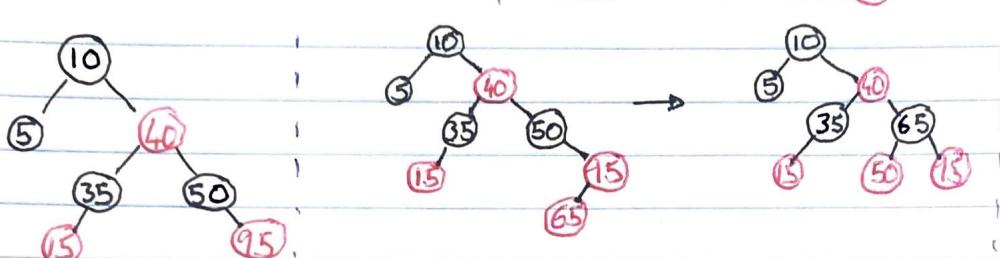
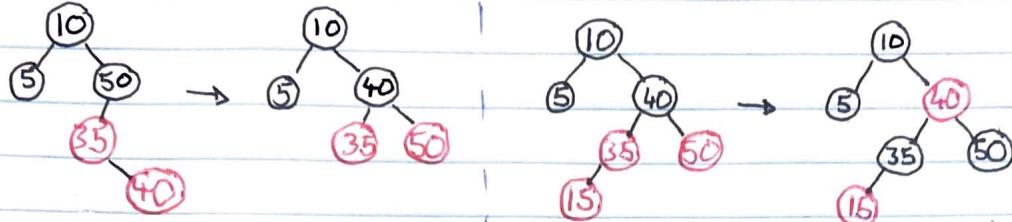
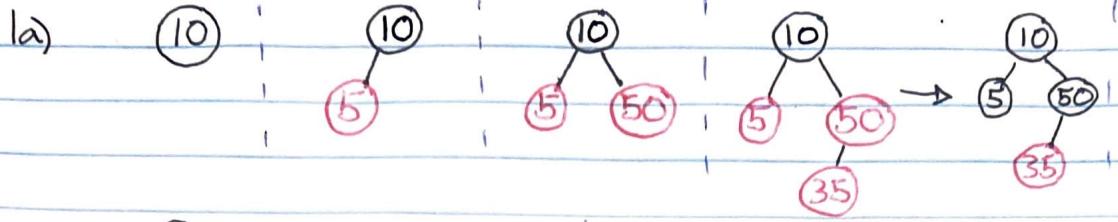
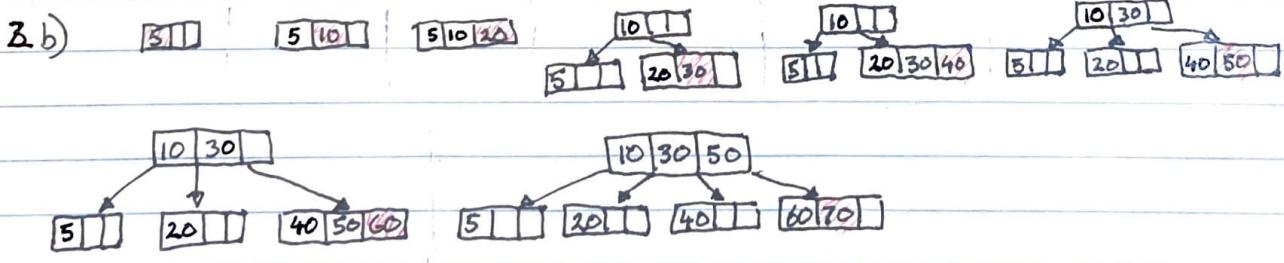
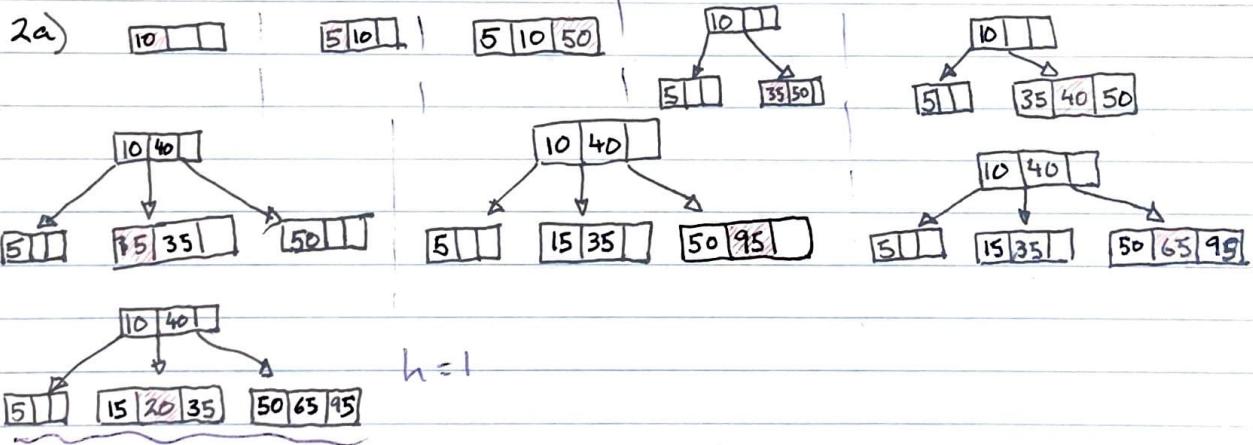
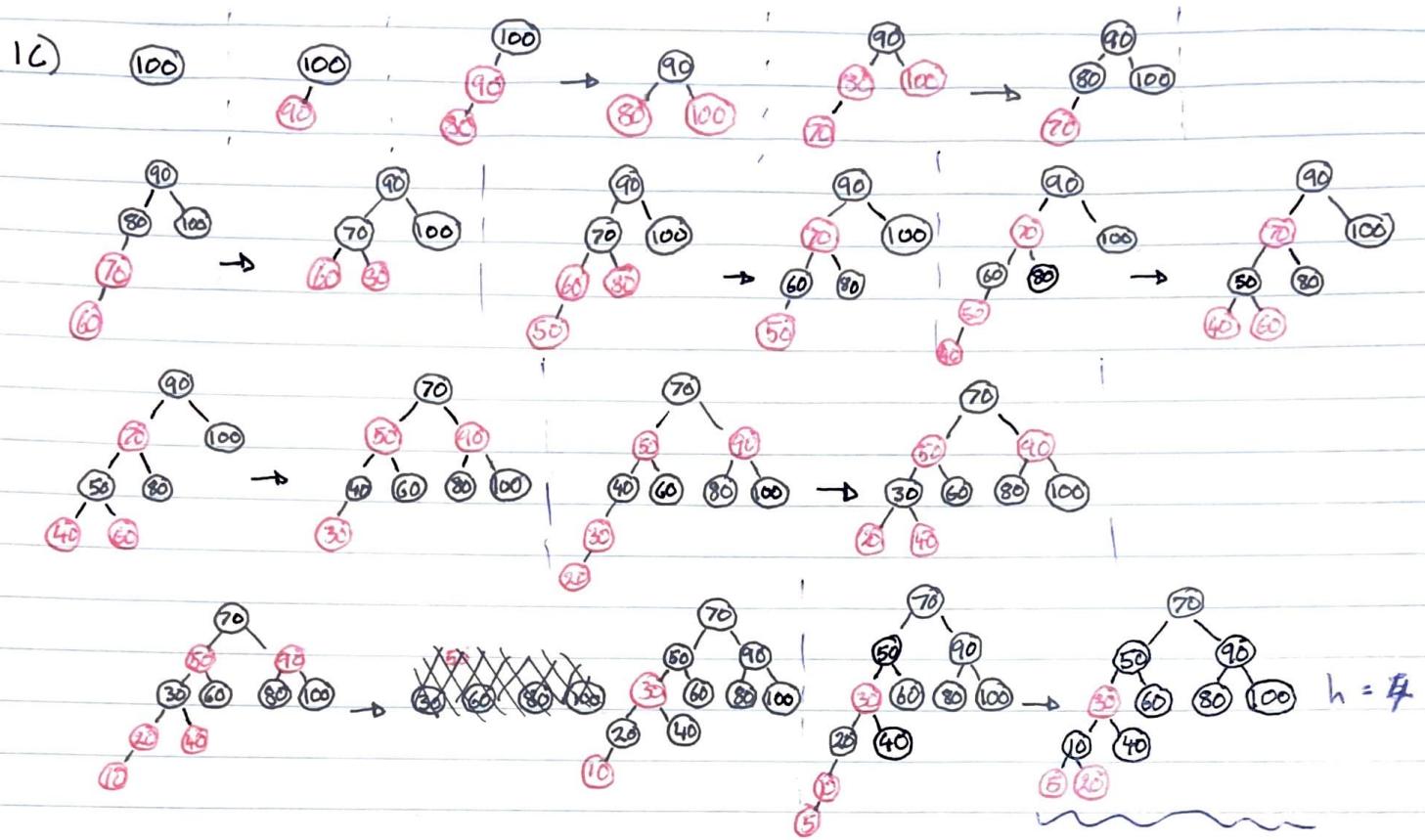
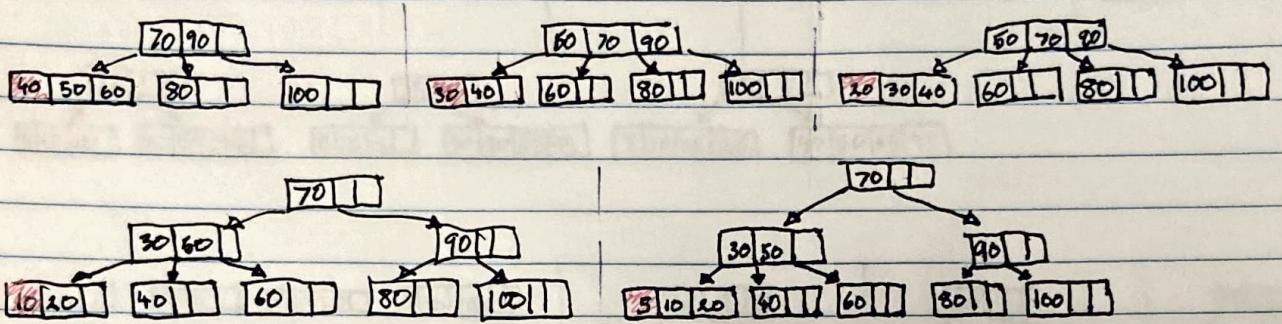
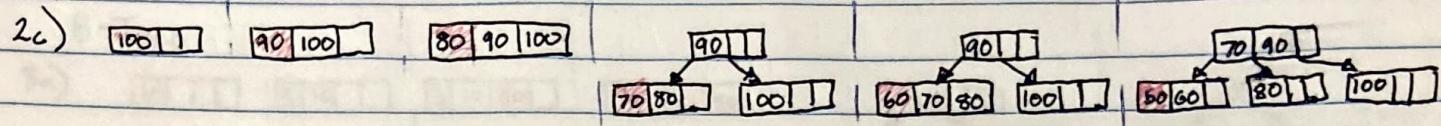


## Red-black trees

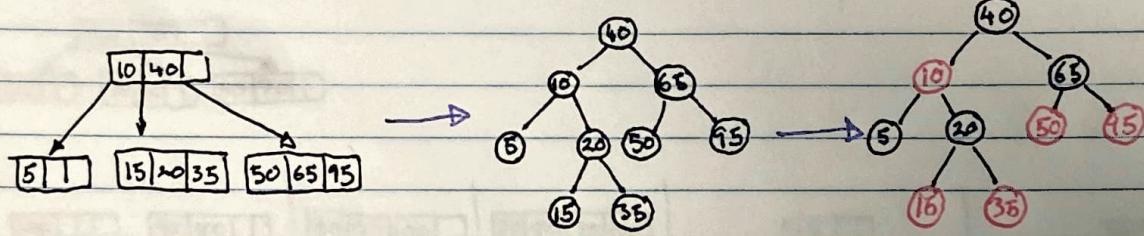




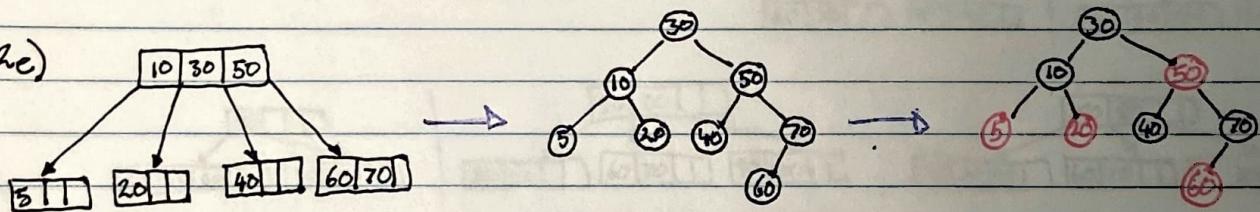
### 2-3-4 Trees



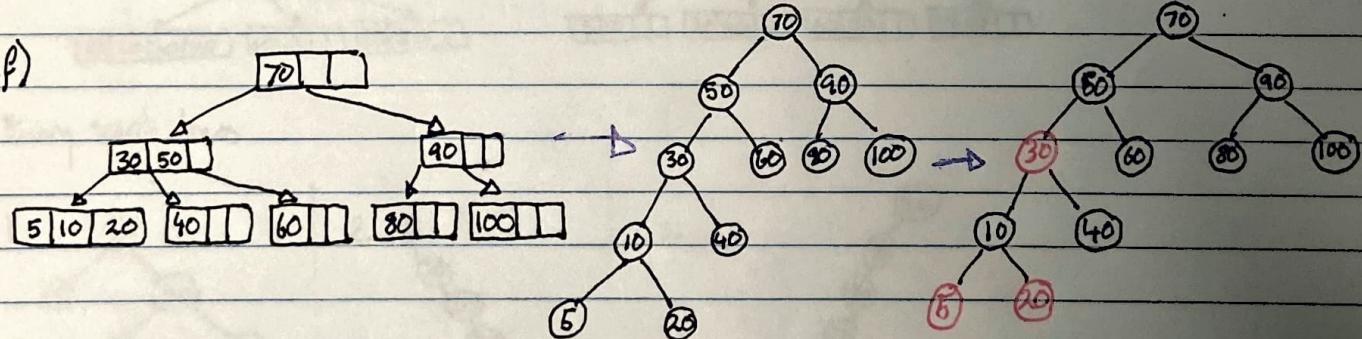
2d)



2e)

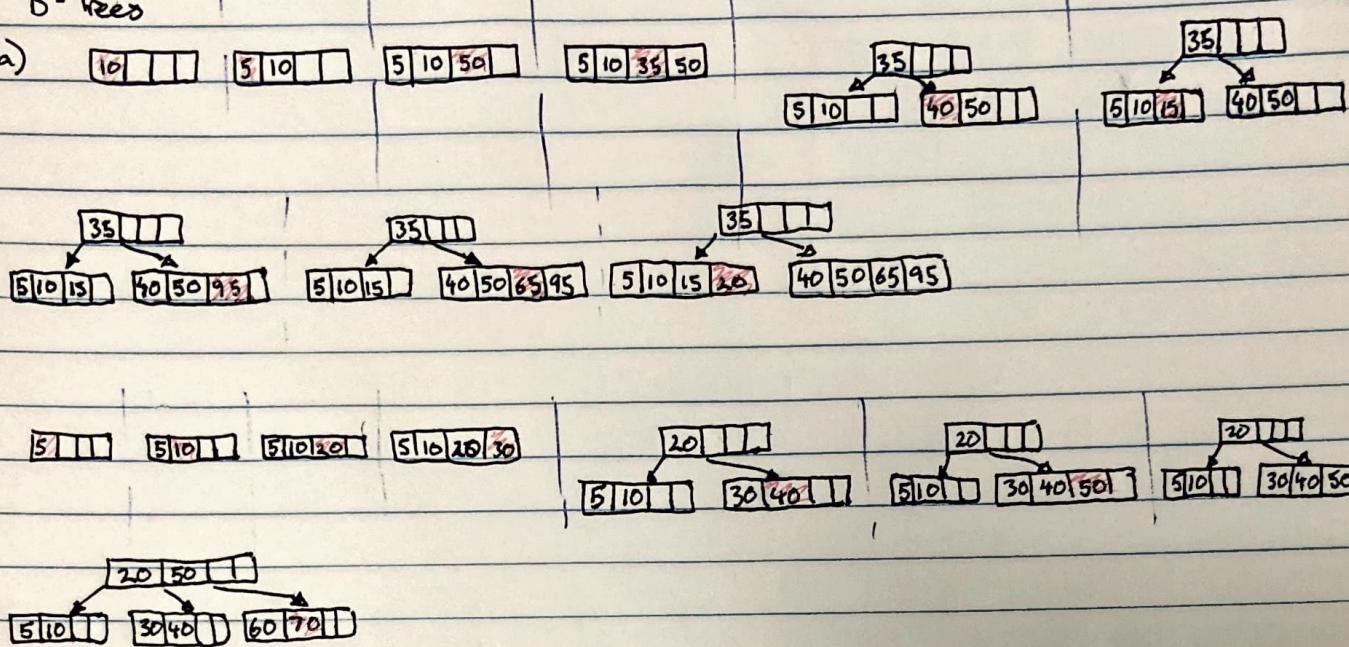


2f)

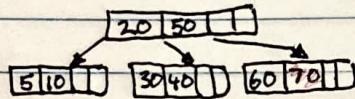
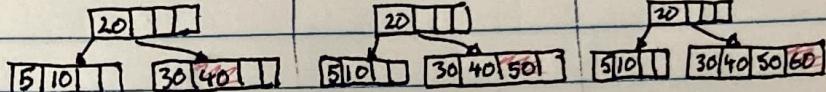


## B-Trees

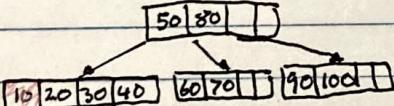
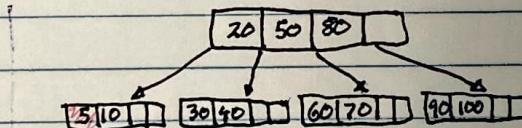
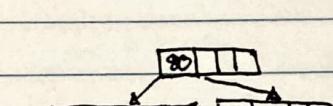
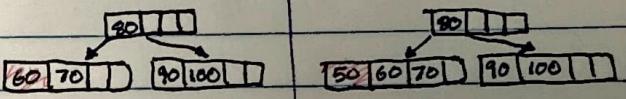
3a)



3b) 5 10 15 20 25 30



3c) 100 90 100 80 90 100 70 80 90 100



## Binary search trees

