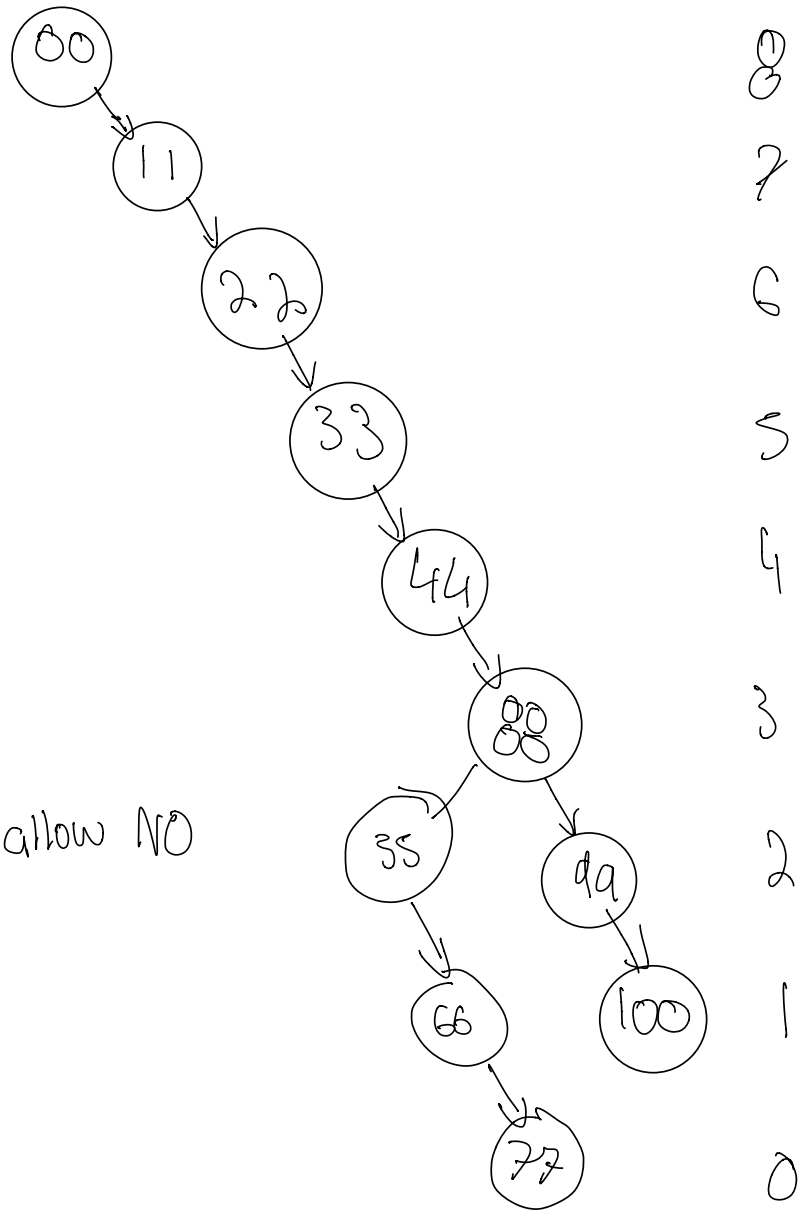
Question 2 (b)

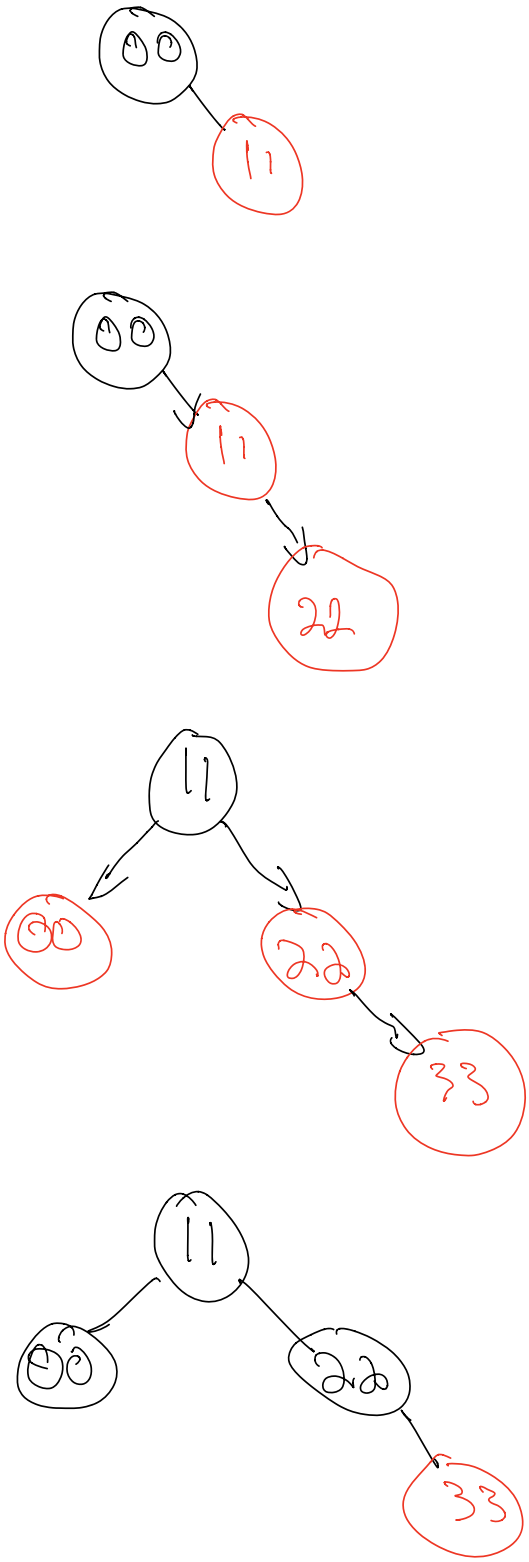
Input=[00,11,22,33,44,88,99,100,44,55,66,77]

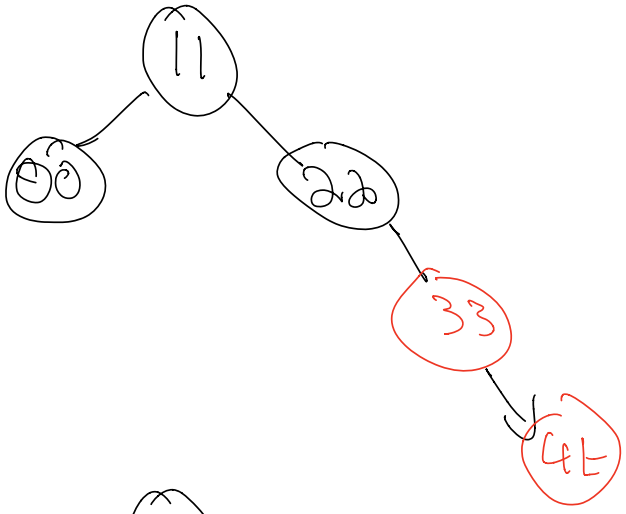
(i) Binary Search Tree Diagram

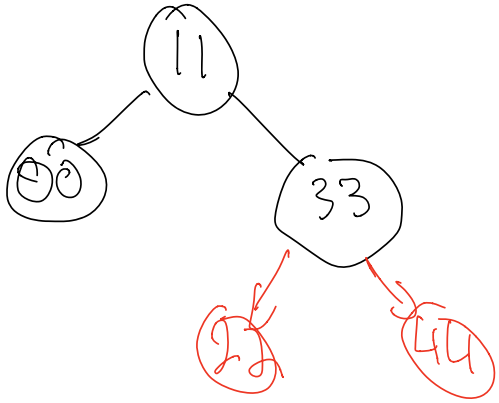


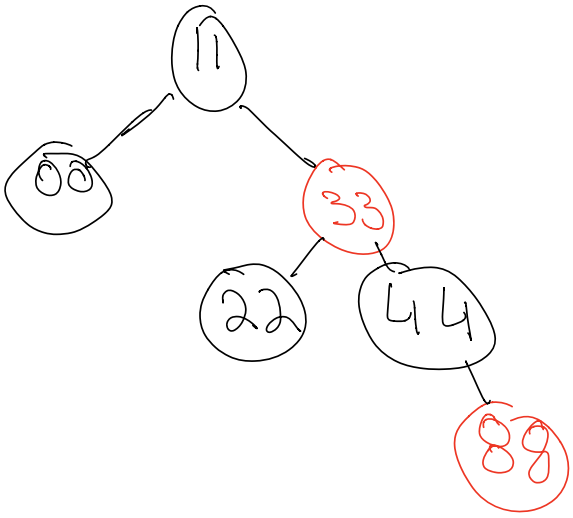
* assume allow NO duplicates

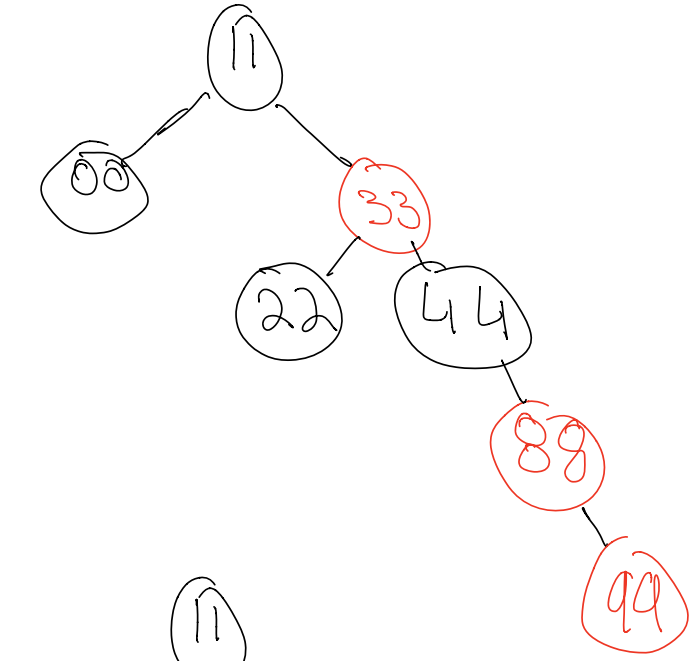
ii) Red Black Tree

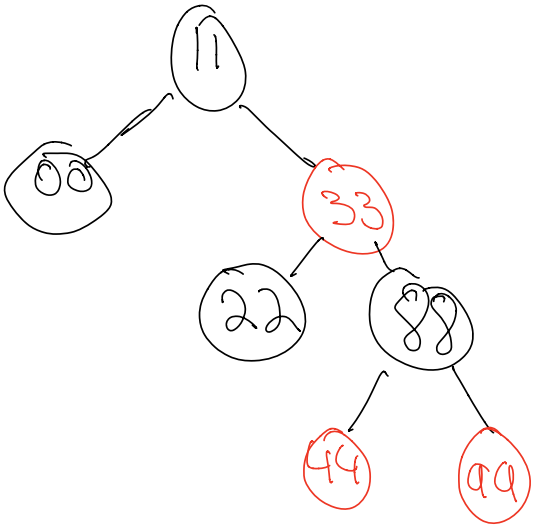


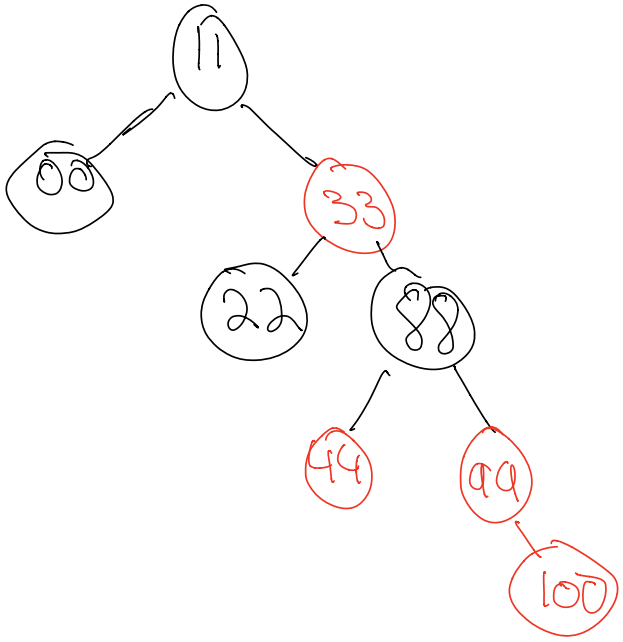

11
00
22
33
44

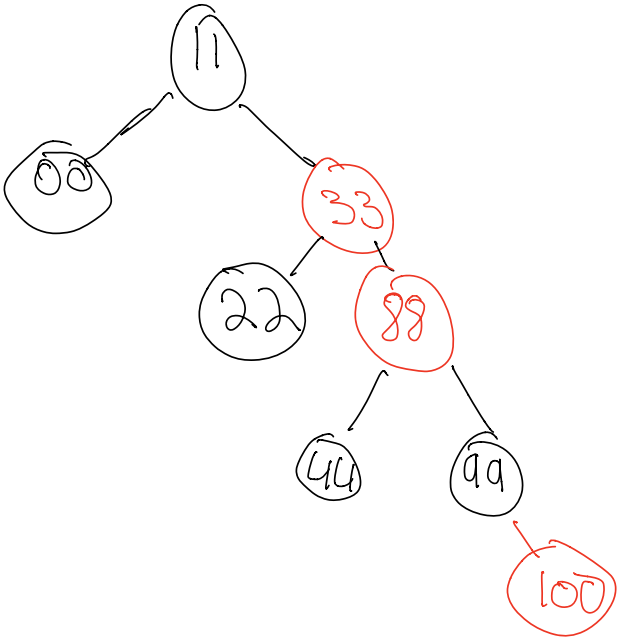

11
00
33
22
44

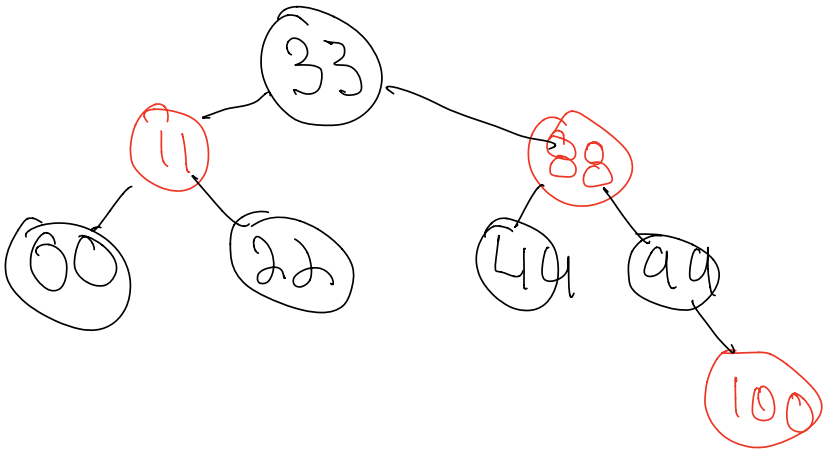

11
00
33
22
44
88

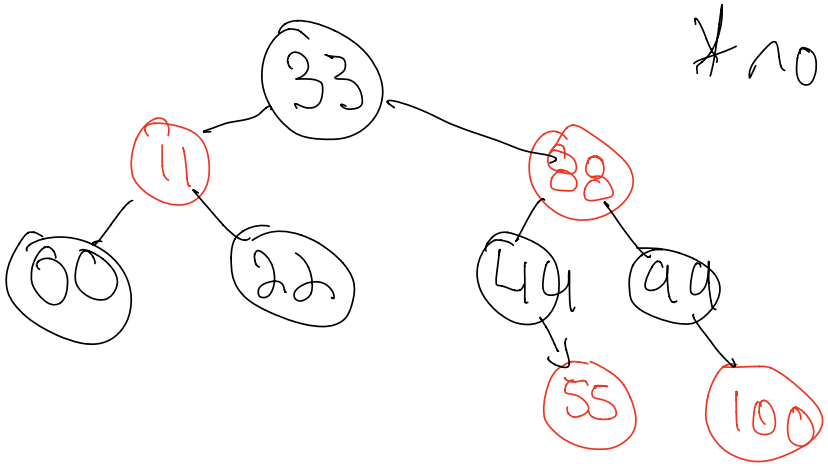

11
00
33
22
44
88
99


11
00
33
22
88
44
99

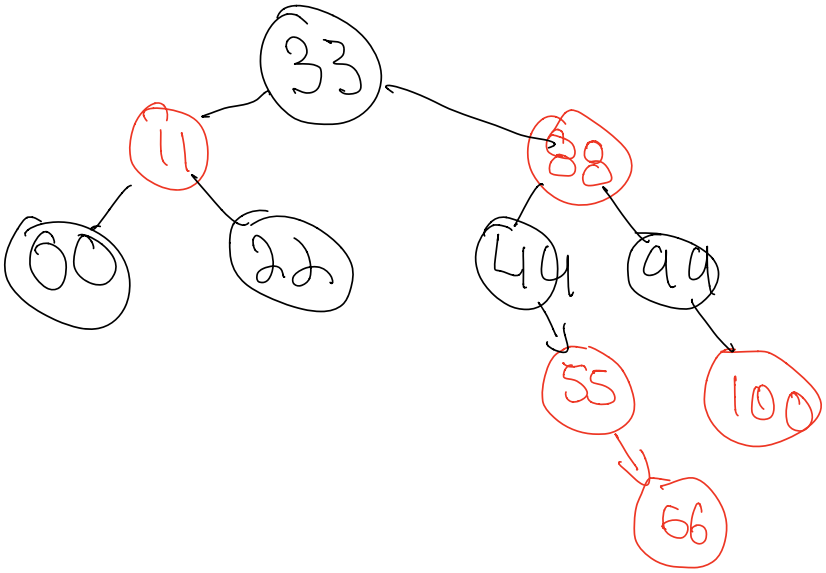

11
00
33
22
88
44
99
100

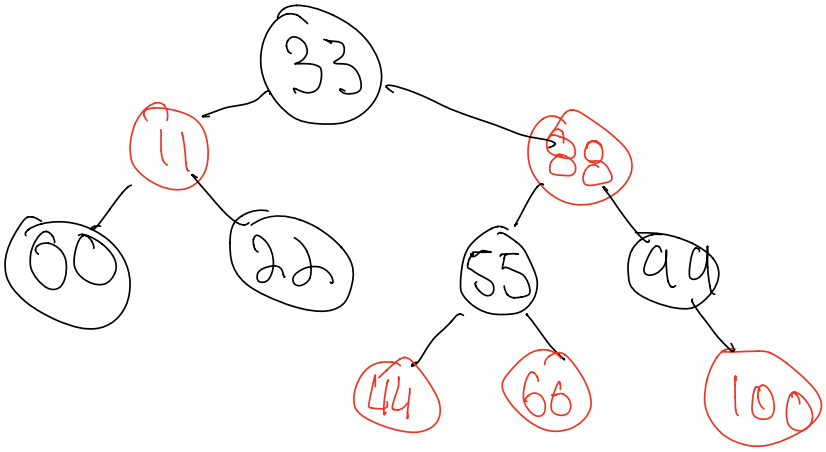

11
00
33
22
88
44
99
100

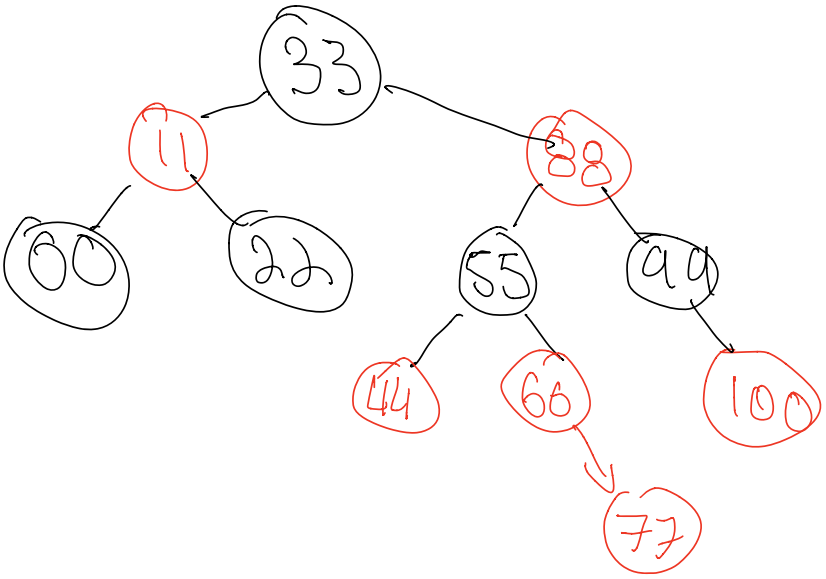


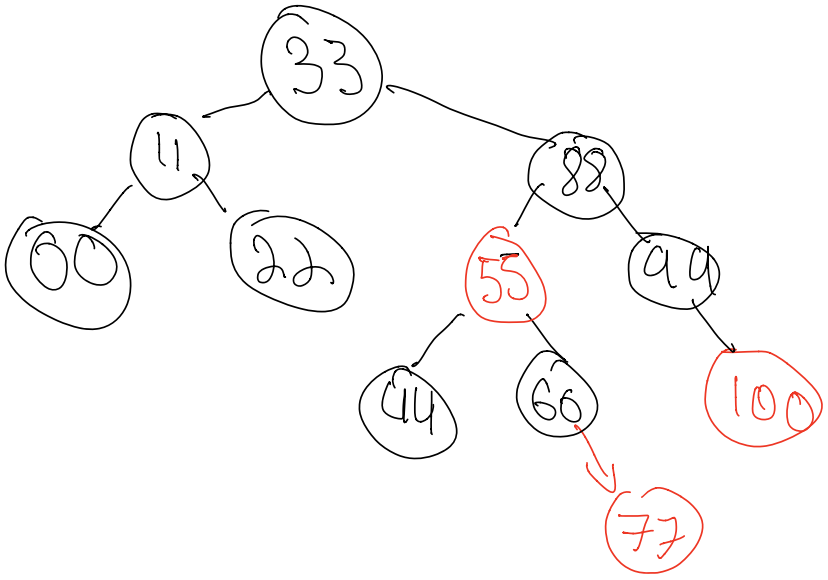


* no duplicates

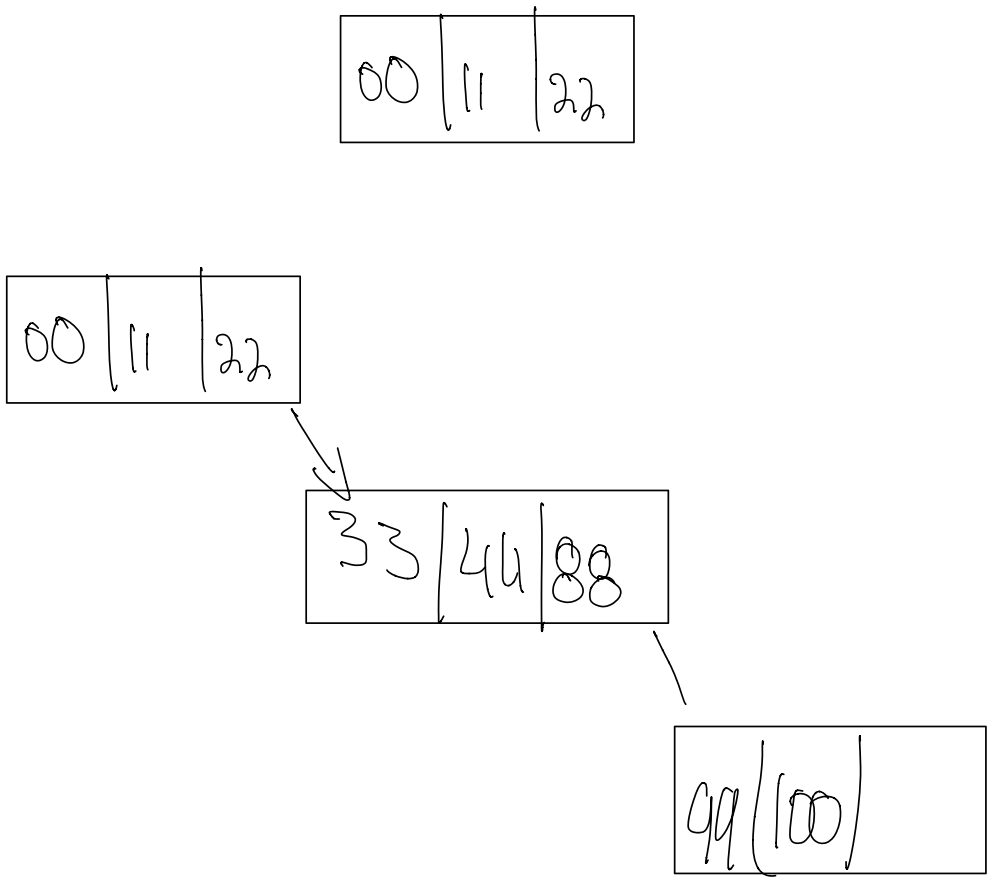


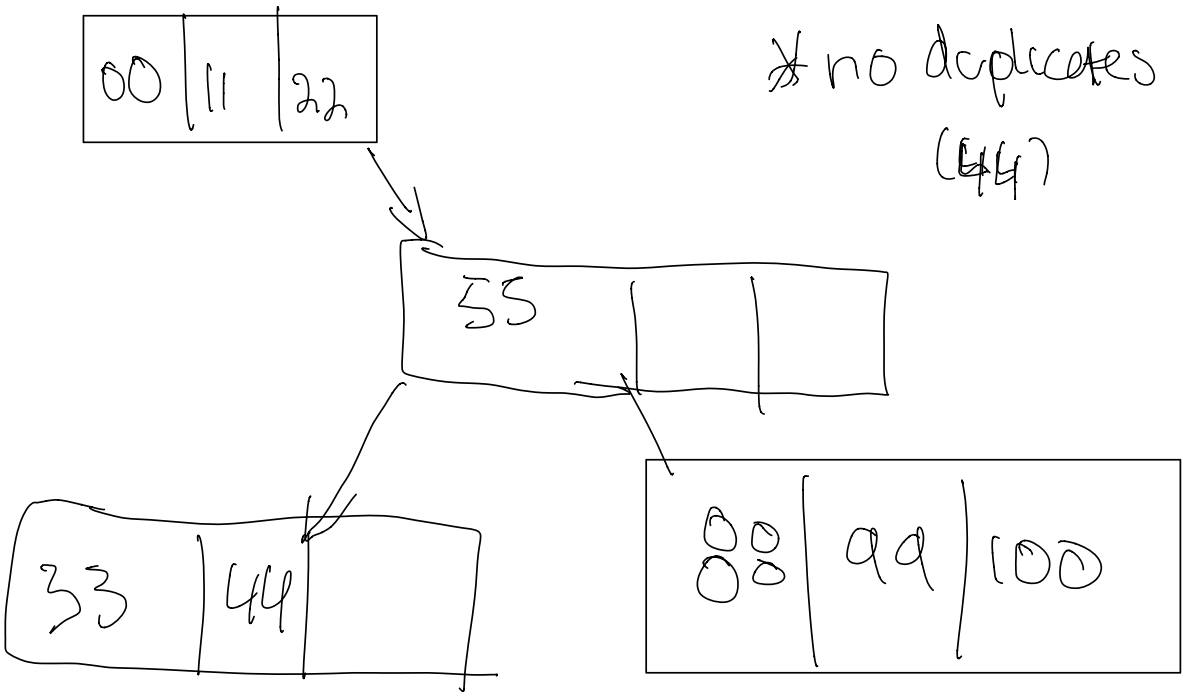

33
11
88
00
22
55
99
44
66
100


33
11
88
00
22
55
99
44
66
100
77

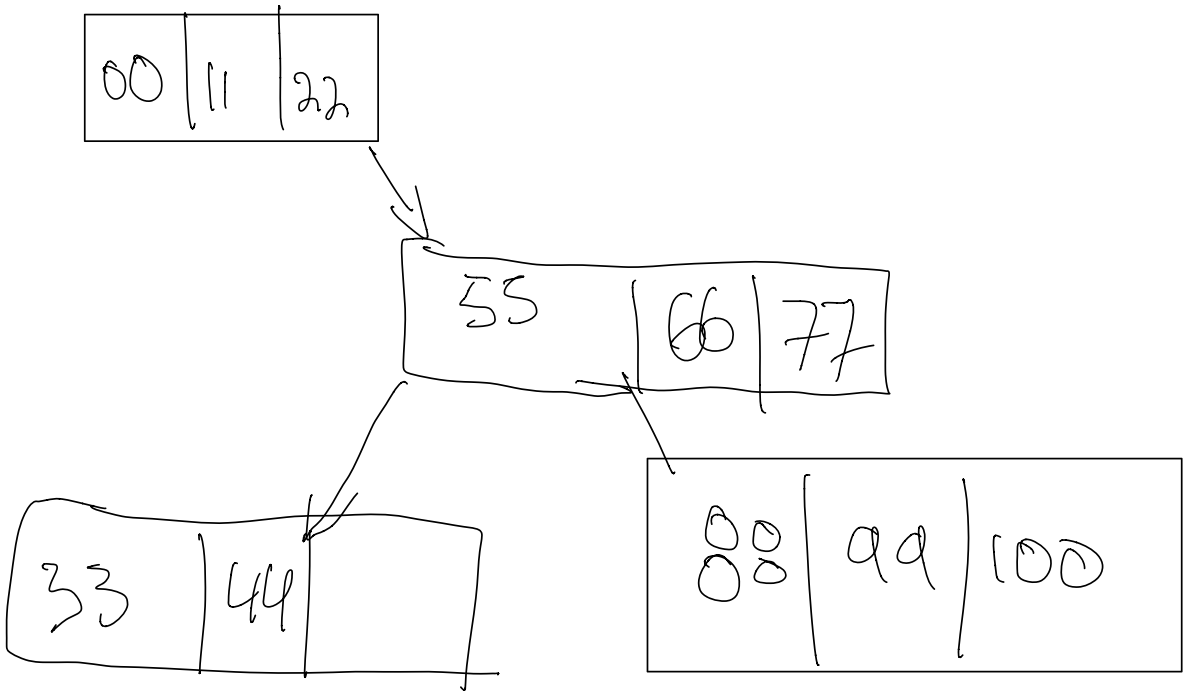

33
11
88
60
22
55
99
44
66
100
77

Ti 2-3-4 Tree

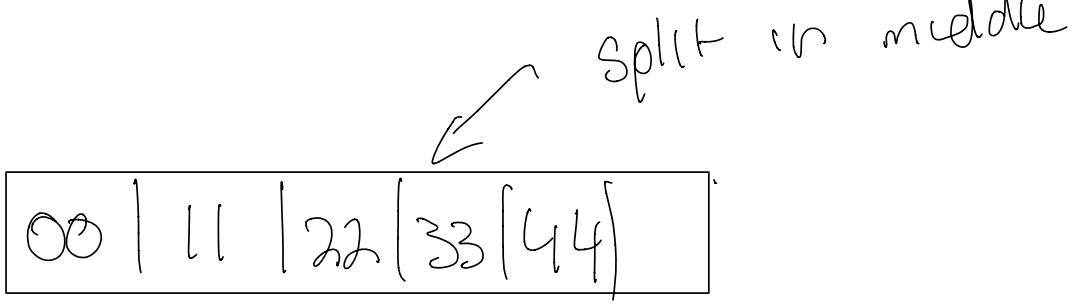


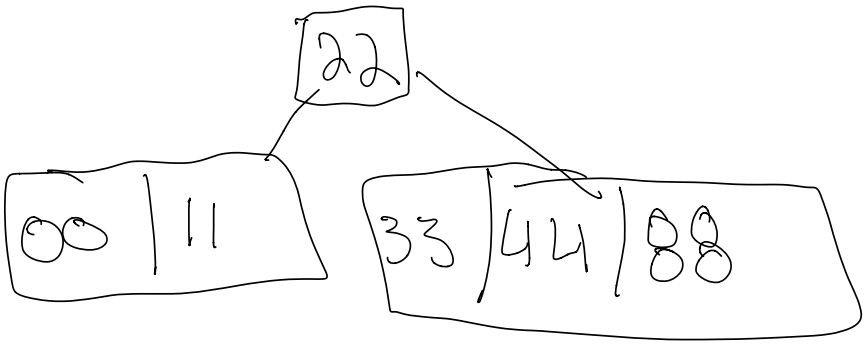


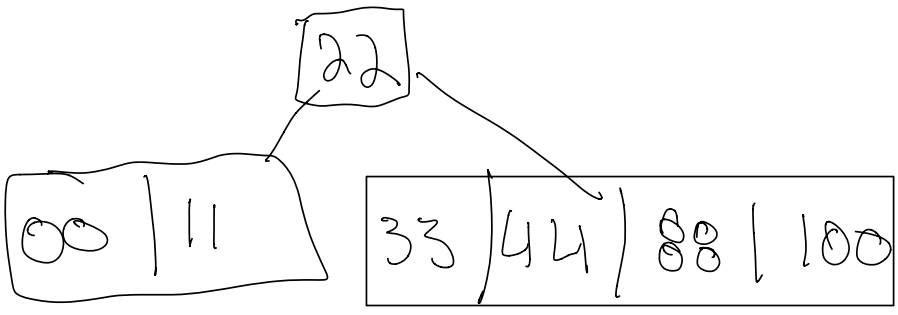
* no duplicates (44)

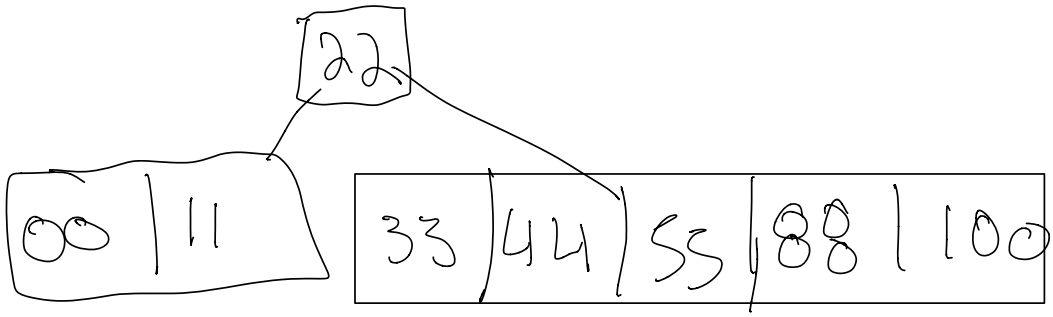


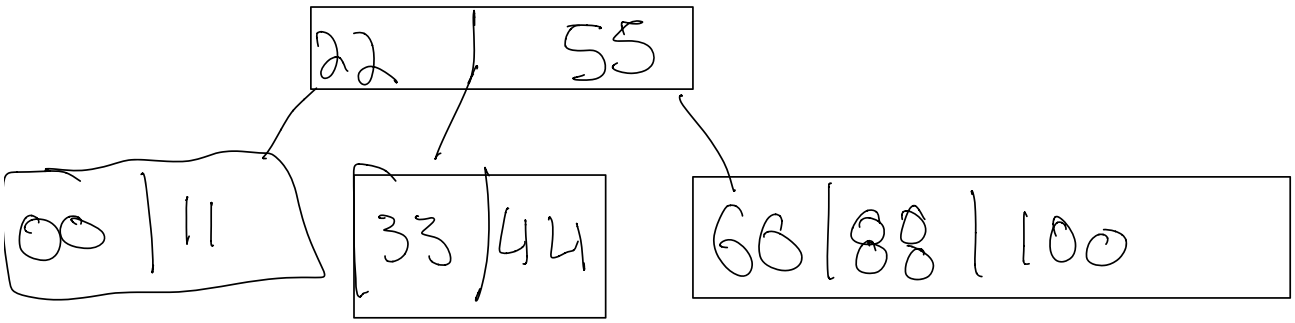
BTree (6-cell)

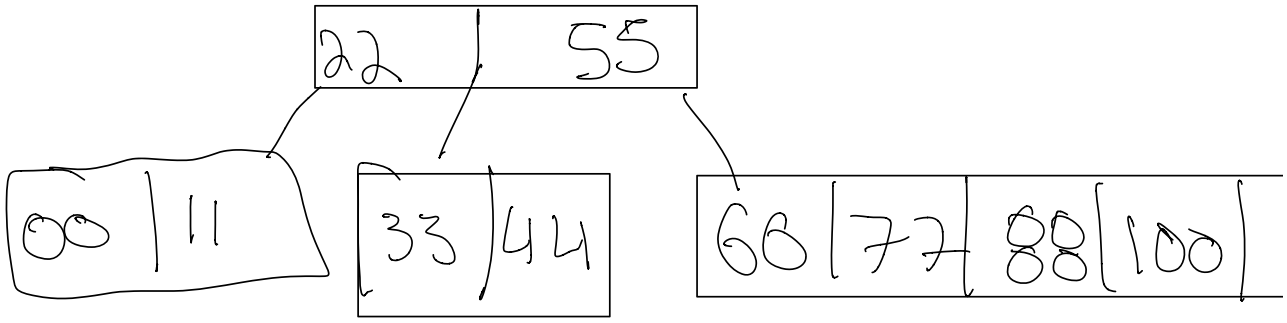

split in middle
00 | 11 | 22 | 33 | 44


22
00 | 11
33 | 44 | 88


22
00 | 11
33 | 44 | 88 | 100


22
00 | 11
33 | 44 | 55 | 88 | 100


22 | 55
00 | 11
33 | 44
66 | 88 | 100


22 | 55
00 | 11
33 | 44
66 | 77 | 88 | 100