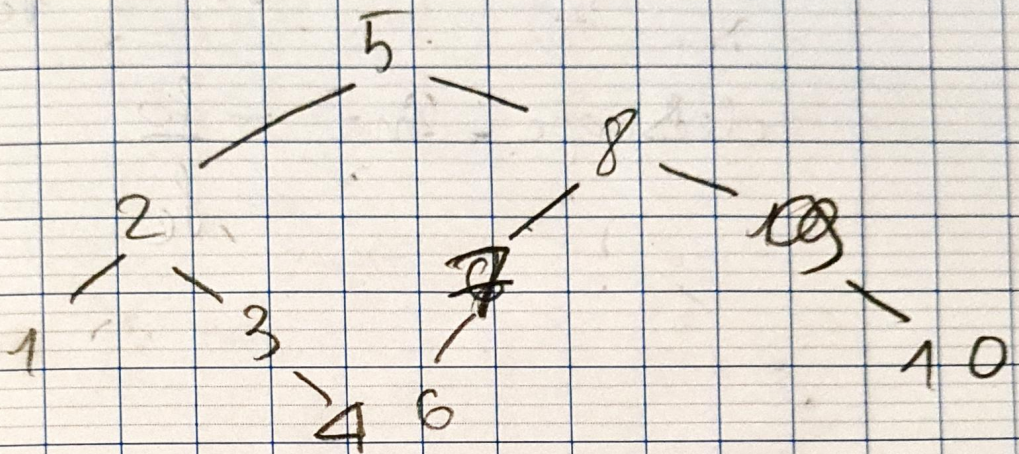
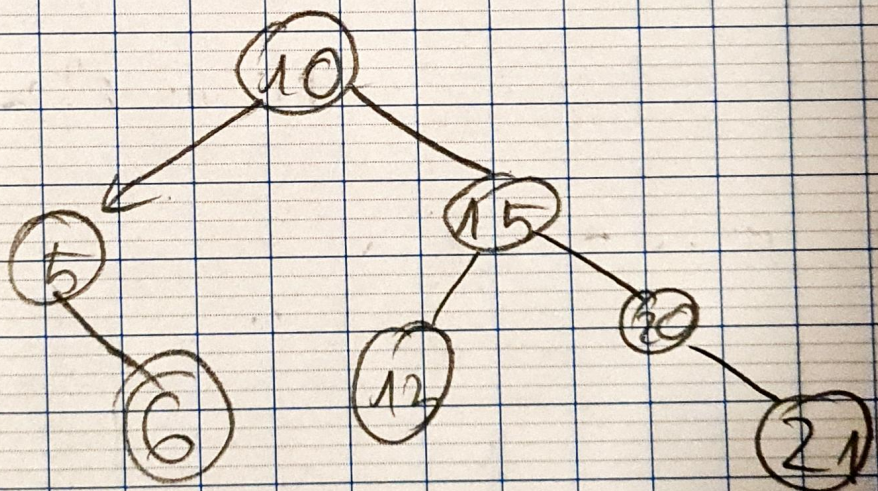


3.1)

1. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10



2. 5 → 10 → 15 → 13 → 20 → 6 → 21

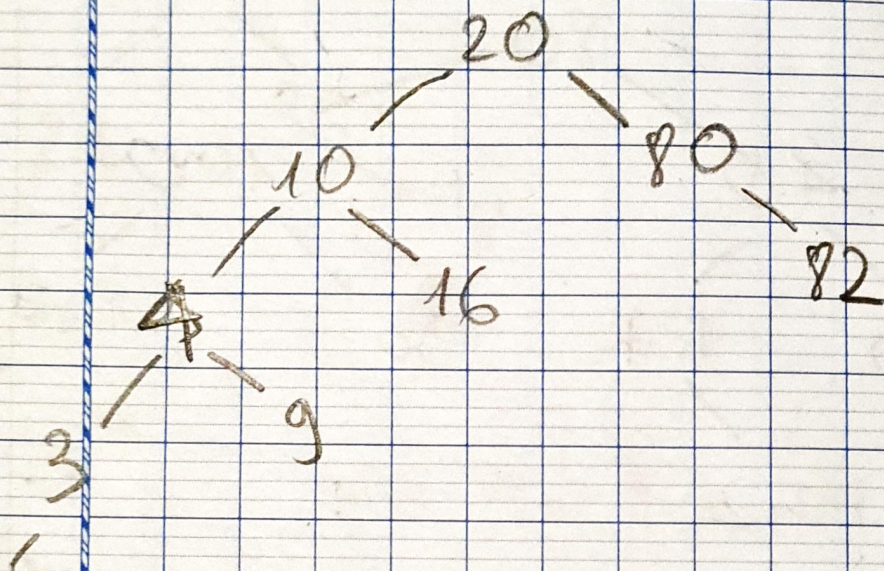




3)

→ Left-Left imbalance:

10 → 80 → 20 → 16 → 82 → 4 → 3



2

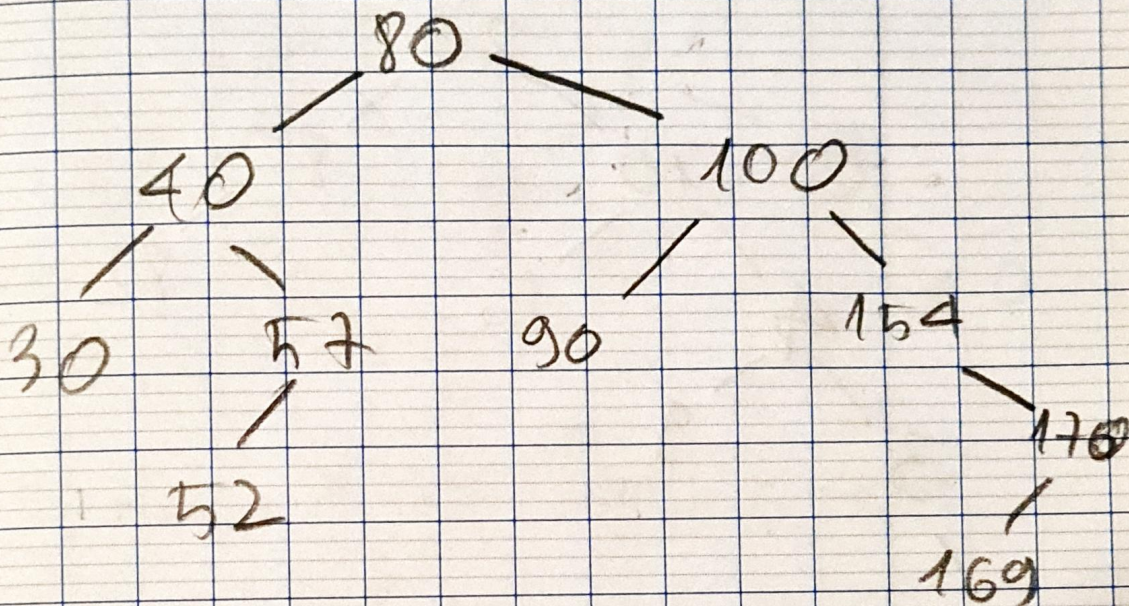
→ Right-Right imbalance

60 → 80 → 90 : 60 — 80 — 90



→ Right - Left :

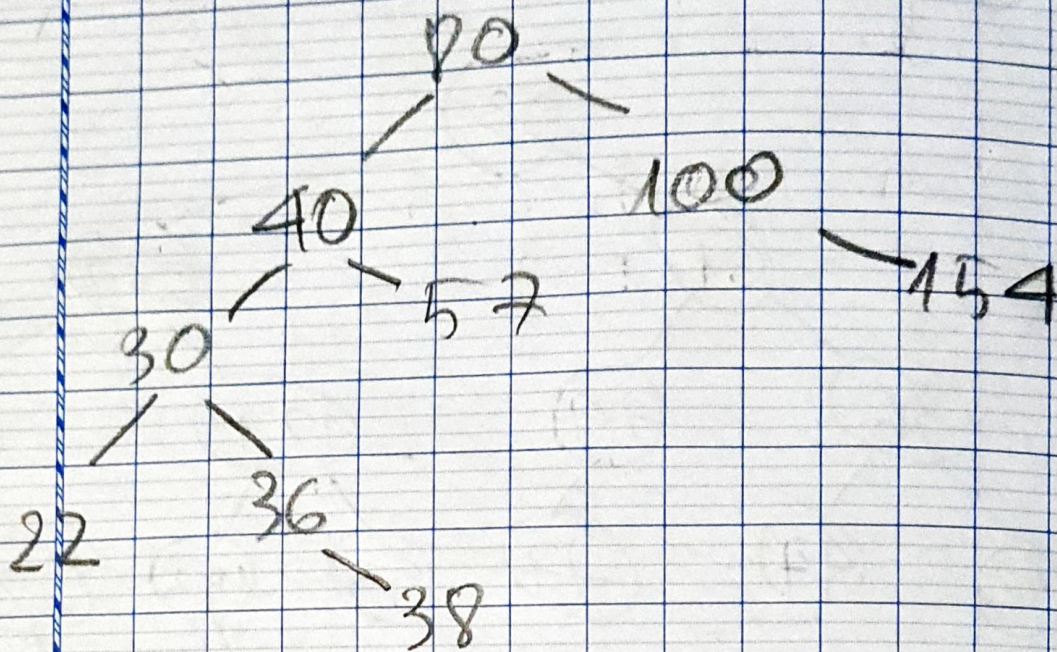
80 → 100 → 40 → 30 → 57 → 154 → 90  
→ 52 → 170 → 160



→ Left right :

80 → 100 → 40 → 154 → 30 → 57 →  
22 → 36 → 38





4.

a.  $1 \rightarrow 9 \rightarrow 37 \rightarrow 45$

imbalance occur at node 45

b. ~~1~~  $9 \rightarrow 37 \rightarrow 35$

$\rightarrow$  imbalance occur at node 35

c. Right-left imbalance



5.

