

Problem 1: 11 22 33 44 55 66 77 88 99

Insert 11 -

11

Insert 22 -

11

22

Insert 33 -

11<sup>-2</sup>

unbalanced

22<sup>-1</sup>

33<sup>0</sup>

Single left Rotation (RL) -

22

Balanced

11

33

Insert 44 -

22<sup>-1</sup>

Balanced

11<sup>0</sup>

33<sup>-1</sup>

44<sup>0</sup>

Insert 55 -

22

unbalanced

11<sup>0</sup>

33<sup>-2</sup>

44<sup>-1</sup>

55<sup>0</sup>

Single Left Rotation (RL) -

22

Balanced

11

44

33

55

Insert 66 -

22<sup>-2</sup>

unbalanced

11<sup>0</sup>

44<sup>-1</sup>

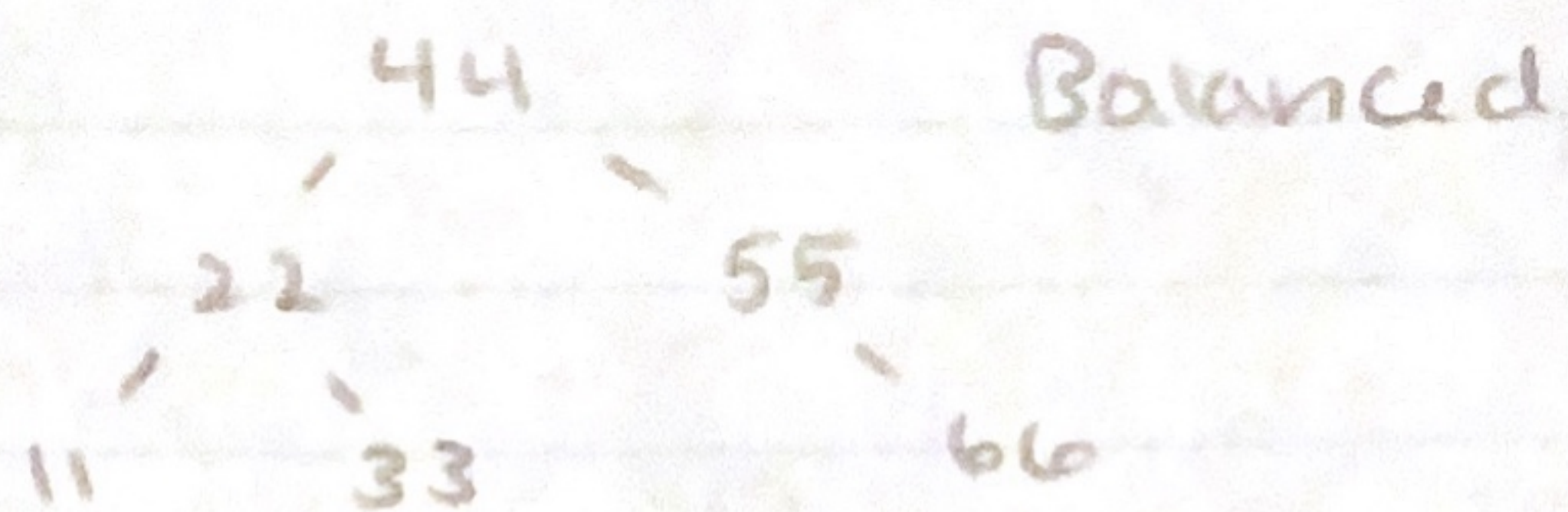
33<sup>0</sup>

55<sup>-1</sup>

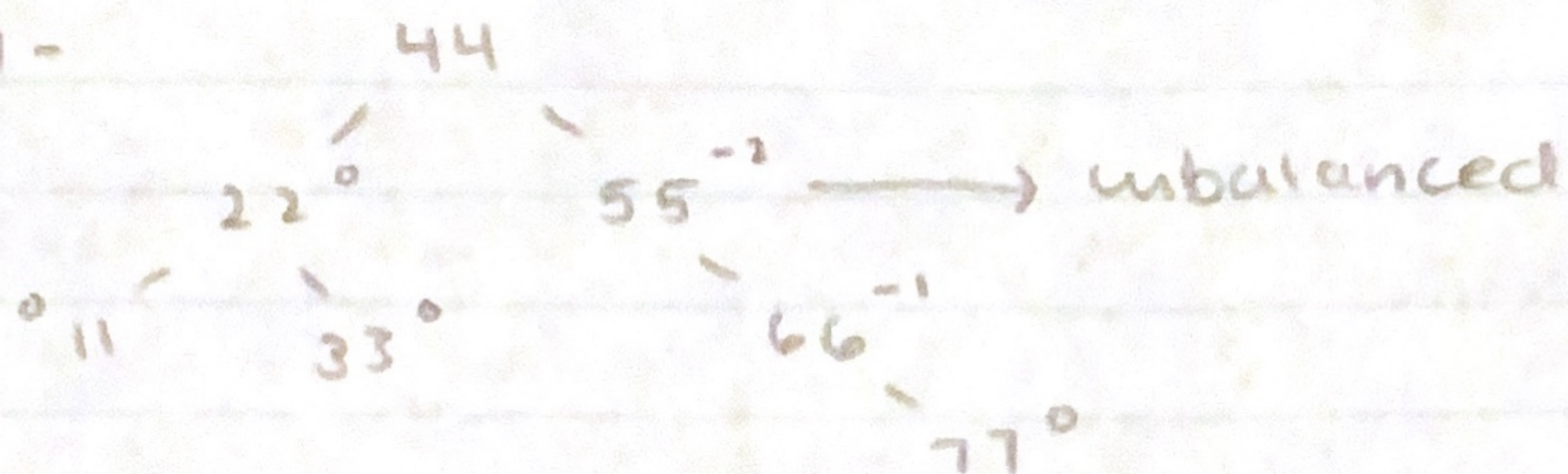
66<sup>0</sup>



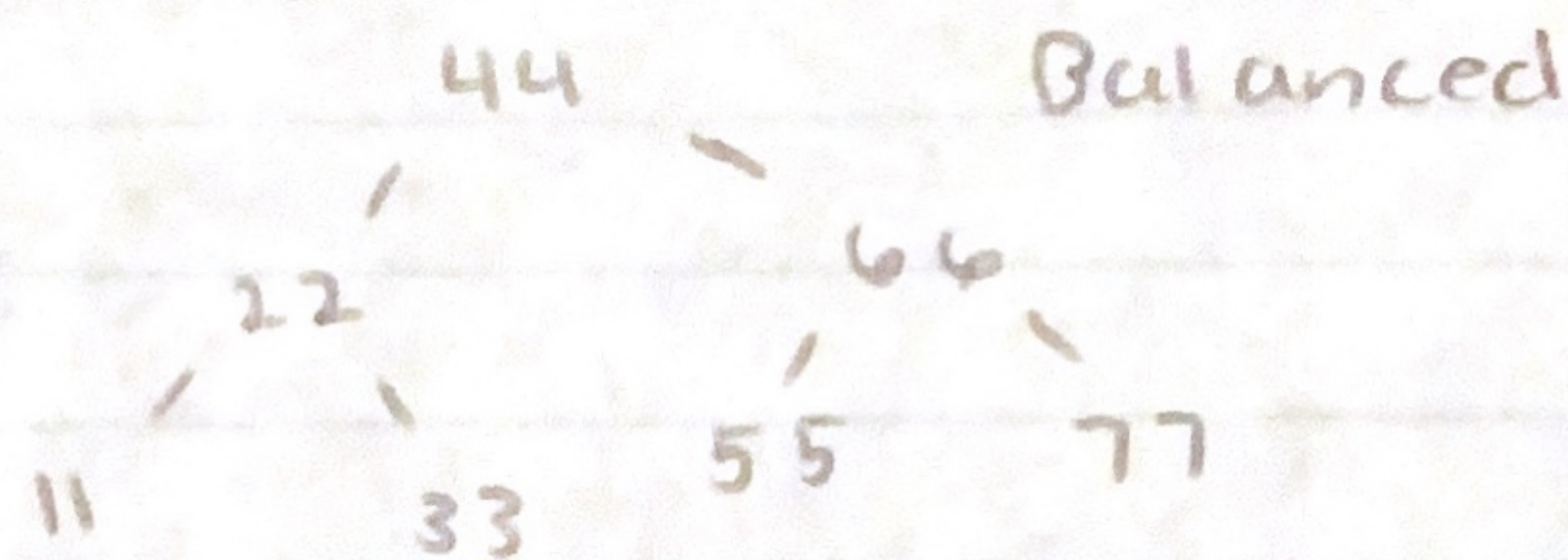
Single left Rotation -



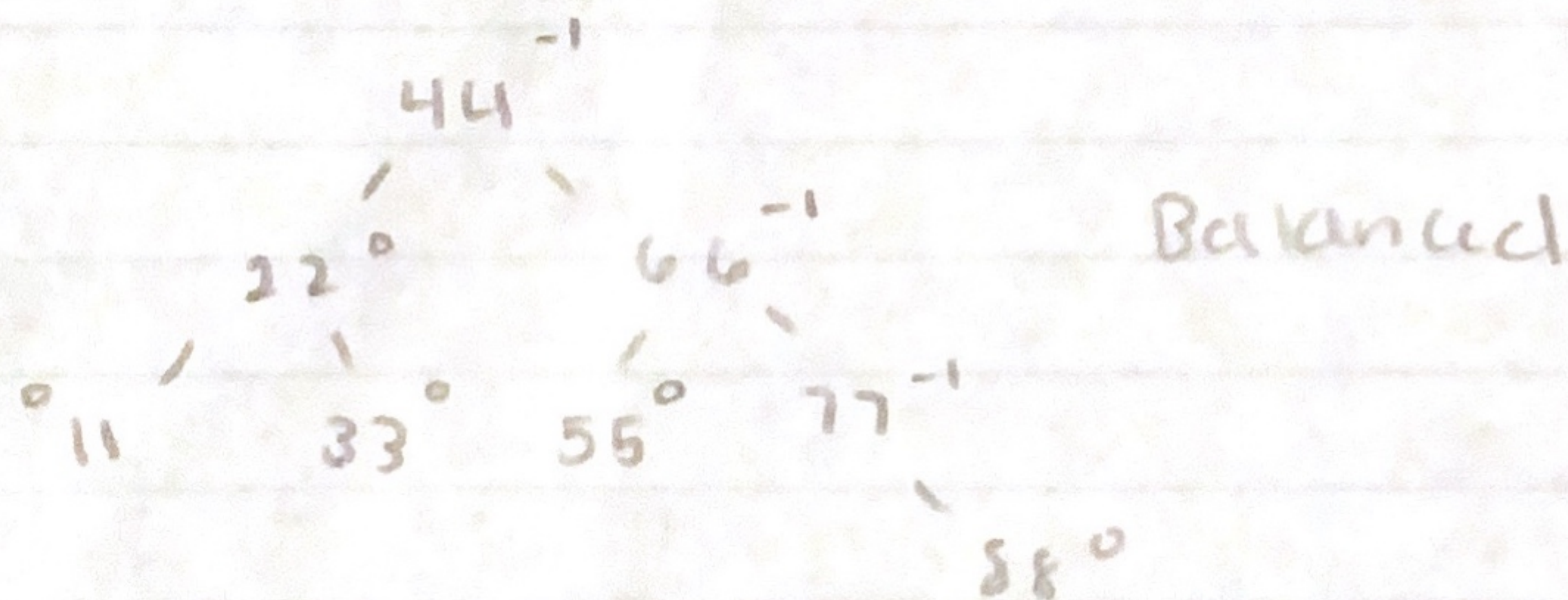
Insert 77 -



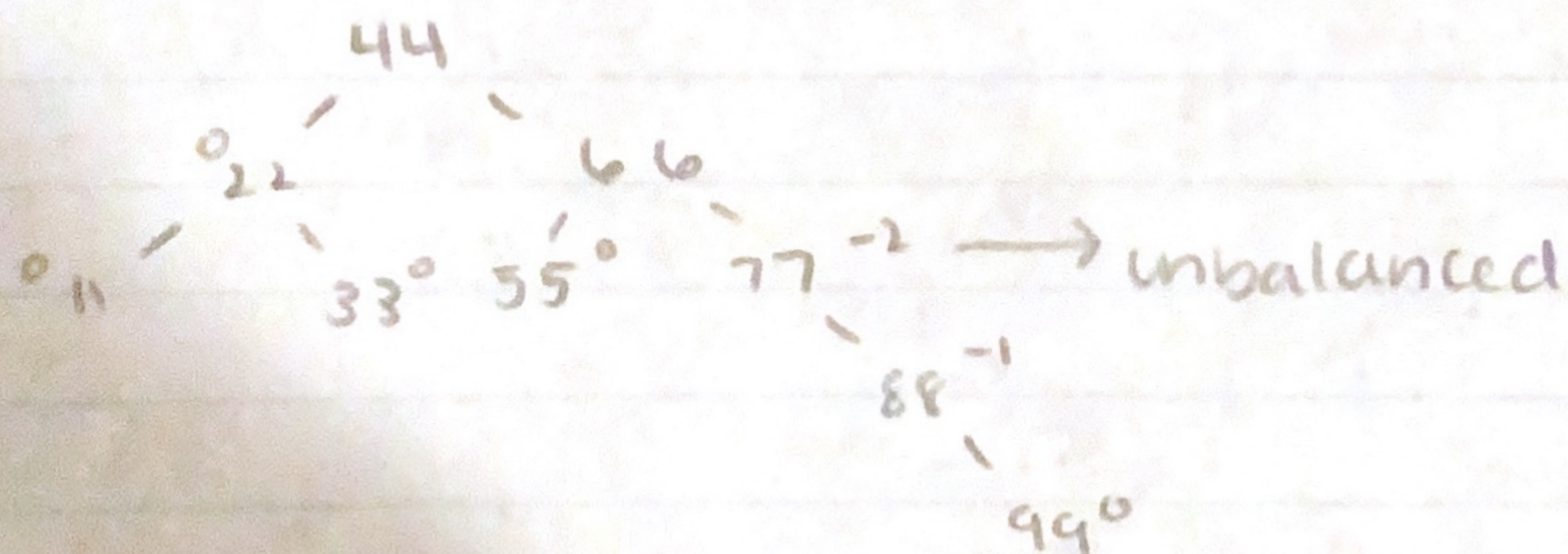
Single Left Rotation (RR) -



Insert 88 -



Insert 99 -



Single left Rotation (RR) -

