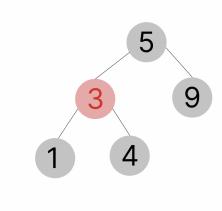
## LLRB Insertions

Here is a video walkthrough of the solutions.

Given the LLRB below, perform the following insertions and draw the final state of the LLRB. In addition, for each insertion, write the fixups needed in the correct order. A fixup can either be a rotate right, a rotate left, or a color flip. If no fixups are needed, write "Nothing".



- 1. Insert 7
- 2. Insert 6
- 3. Insert 2
- 4. Insert 8
- 5. Insert 8.5

Final state:

Solution: For a visualization of the process, see: https://tinyurl.com/llrb-insertions

- 1. Insert 7
  - Nothing
- 2. Insert 6
  - rotateRight(9)
  - colorFlip(7)
  - colorFlip(5)
- 3. Insert 2
  - rotateLeft(1)
- 4. Insert 8
  - Nothing
- 5. Insert 8.5
  - rotateLeft(8)
  - rotateRight(9)
  - colorFlip(8.5)
  - rotateLeft(7)

## Final state:

