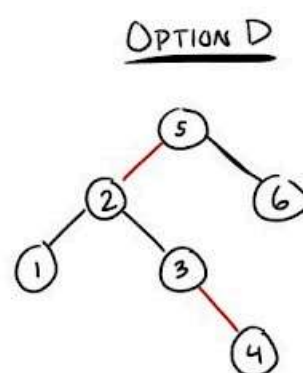
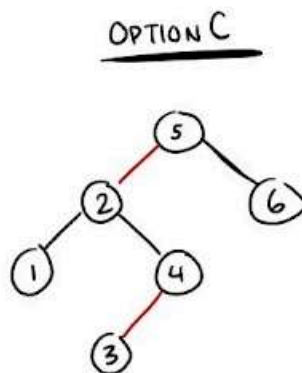
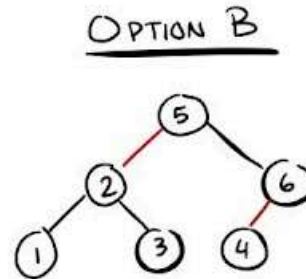
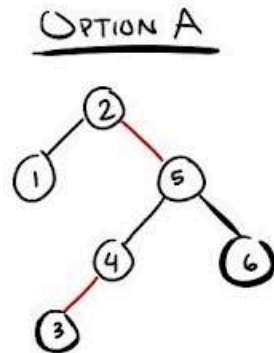
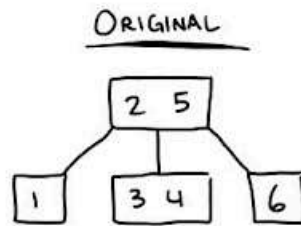


Pick the Left Leaning Red Black Tree that corresponds to the given 2-3 Tree. 2 points



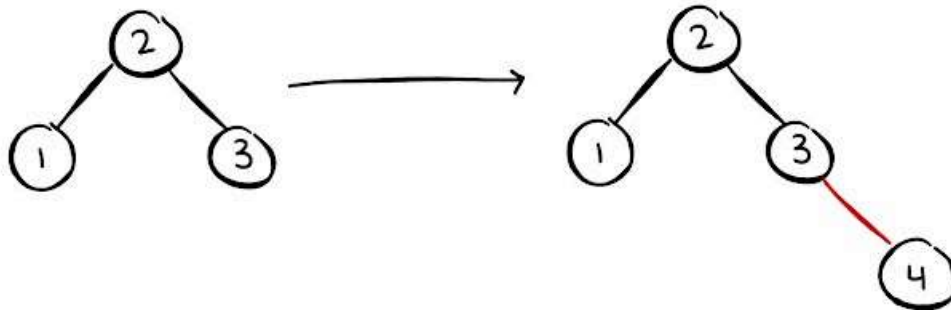
- ☐ Option A
- ☐ Option B
- ☐ Option C
- ☐ Option D

Select all the following that are true of Red Black Trees.

2 points

- ☐ A Red Black Tree is guaranteed to be no more than half the height of its corresponding 2-3 Tree
- ☐ No node in a Red Black Tree can have two red links
- ☐ The contains() method of a Red Black Tree runs in $O(\log N)$ time
- ☐ Red Black Trees are guaranteed to be balanced, regardless of the order in which we add elements

Suppose we call **insert(4)** on the LLRB on the left. We start by adding 4 with a red link, as shown on the right. What operations do we need to call in order to ensure we have a valid LLRB? 2 points



- ☐ rotateLeft(3)
- ☐ rotateLeft(3) & rotateRight(2)
- ☐ rotateRight(3)
- ☐ flipColors(3)
- ☐ No balancing operations are needed

A copy of your responses will be emailed to yiyunchen@berkeley.edu.



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