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CS213 Q 1: Lecture 10: Consider a Red-Black Tree. Which of the following are true?

If a red node has children, then the children are always black.

The root of the Red-Black Tree is always colored black.

All paths from root to null leaves have the same number of red nodes.

After any insertion or deletion, the tree ensures balancing by preserving the Red-Black Tree properties.

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS213 Q 1: Lecture 10: Consider a Red-Black Tree. Which of the following are true?

You have answered the following:

- ✓ If a red node has children, then the children are always black. (You are correct)
- ✓ The root of the Red-Black Tree is always colored black. (You are correct)
- ✗ All paths from root to null leaves have the same number of red nodes. (You are correct)
- ✓ After any insertion or deletion, the tree ensures balancing by preserving the Red-Black Tree properties. (You are correct)

Previous question Next question

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