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8.2 Review Questions

8.2.R1

1/1 point (graded)

Imagine that you are doing cost complexity pruning as defined on page 18 of the notes. You fit two trees to the same data: T_1 is fit at $\alpha = 1$ and T_2 is fit at $\alpha = 2$. Which of the following is true?

- ⦿ T_1 will have at least as many nodes as T_2
- ◯ T_1 will have at most as many nodes as T_2
- ◯ Not enough information is given in the problem to decide

✔

Explanation

A higher value of $alpha$ corresponds to a higher penalty on the complexity of the tree. This means that T_1 will have at least as many nodes as T_2.

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ⓘ Answers are displayed within the problem