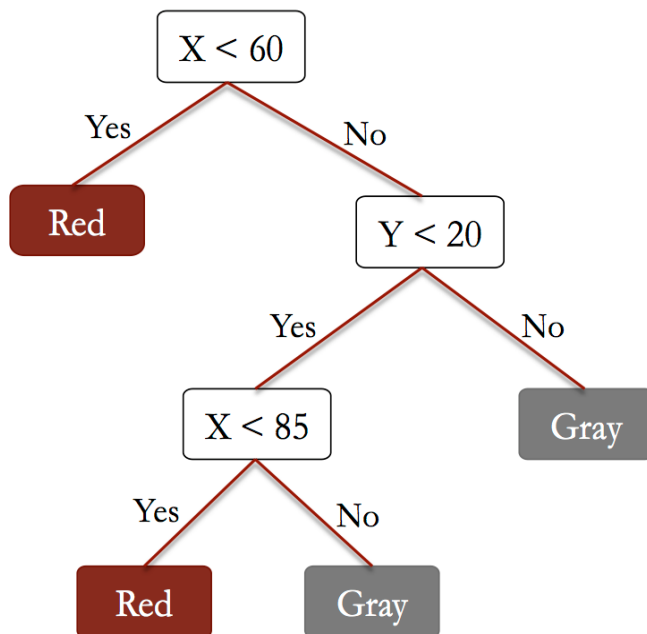


QUICK QUESTION 2 (2/2 points)

Suppose that you have the following CART tree:



How many splits are in this tree?

Answer: 3



For which data observations should we predict "Red", according to this tree?

- ☒ If X is less than 60, and Y is any value. ✓
- ☐ If X is greater than or equal to 60, and Y is greater than or equal to 20.
- ☐ If X is greater than or equal to 85, and Y is less than 20.
- ☒ If X is greater than or equal to 60 and less than 85, and Y is less than 20. ✓

EXPLANATION

This tree has three splits. The first split says to predict "Red" if X is less than 60, regardless of the value of Y. Otherwise, we move to the second split. The second split says to check the value of Y - if it is greater than or equal to 20, predict "Gray". Otherwise, we move to the third split. This split checks the value of X again. If X is less than 85 (and greater than or equal to 60 by the first split) and Y is less than 20, then we predict "Red". Otherwise, we predict "Gray".

[Final Check](#)[Save](#)[Hide Answer](#)

You have used 2 of 3 submissions



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