

# Quiz: Decision Tree Models

Due Feb 17 at 3:30pm

Points 3

Questions 3

Time Limit 10 Minutes

## Instructions

This is an individual quiz with a 10 minutes limit.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	2 minutes	3 out of 3

Score for this quiz: **3** out of 3

Submitted Feb 4 at 11:26pm

This attempt took 2 minutes.

### Question 1

1 / 1 pts

What is the criteria used to find the optimal threshold to split the sample relative to one feature (input variable)?



We try all possible thresholds, and find the one that generates the greatest accuracy



We try all possible thresholds, and find the one that generates the smallest accuracy.



All of the answers are correct.



We try one threshold, and if it gives good accuracy, we use it

### Question 2

1 / 1 pts

How do we choose which feature to use as the main first split?

Correct!



We find the best split (i.e. threshold) for each variable, and then among all variables, we choose the one with the greatest accuracy.



We find the best split (i.e. threshold) for the first variable in our model.



We find the best split (i.e. threshold) for the last variable in our model.



We find the best split (i.e. threshold) for each variable, and then among all variables, we choose the one with the smallest accuracy.

### Question 3

1 / 1 pts

What tools do we have to prevent overfitting the data?



We do not split branches if the resulting leaf has less than a pre-specified number of observations.



Limit the number of levels of the tree.



All of the answers are correct.



We do not split branches with less than a pre-specified number of observations.

Correct!

Quiz Score: **3** out of 3