Nam	ne: Date:			
	Lab 4G: Growing Trees Response Sheet			
Dire	Directions: Record your responses to the lab questions in the spaces provided.			
Our	first tree			
•	Why can't we just use a <i>linear model</i> to predict whether a passenger on the Titanic survived or not based on their gender?			
Viev	ving trees			
•	Write down the labels of the two <i>branches</i> .			
	Write down the labels of the two <i>leaves</i> .			
•	Which gender does the model predict will survive?			
•	Where does the plot tell you the number of people that get sorted into each leaf? How do you know?			
	Where does the plot tell you the number of people that have been conted income attacks and the second			
•	Where does the plot tell you the number of people that have been sorted <i>incorrectly</i> in each leaf?			

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Leaf	iier trees	
•	Mrs. Cumings was a 38 year old female with a 1st class ticket from predict that she survived?	Cherbourg. Does the model
	Which variable anded up not being used by to 2	
•	Which variable ended up not being used by tree?	
Tree	complexity	
•	How is tree3 different from tree2?	
On y	our own	
•	In your own words, explain what the <i>misclassification rate</i> is.	
•	Which model (tree1, tree2 or tree3) had the lowest misclassifica data?	tion rate for the titanic_test

Does creating a more complex *classification tree* always lead to better predictions? Why not?