STA363Lab6SecA

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Question 1

Trees begin with a split on a single feature. Suppose we decided to consider splitting on whether or not the school is a private school. Explain in 1-2 sentences how you would use this feature to create one split, and how you would use the splitting rule to move rows into leaves.

We would use the splitting rule of "Private == Yes" to create one split which splits the rows into two leaves. The leaf 1 would store the rows whose variable "Private" is "Yes", and the leaf 2 would store the rows whose variable "Private" is "No".

Question 2

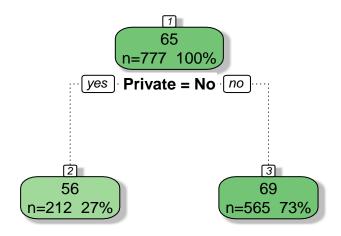
Without using rpart to build the tree, find the training RSS we would get if we split on whether or not a school is a private school. Show your code.

```
# Store the number of rows in to n
n <- nrow(college)</pre>
# Store the exploratory and response variables
X <- college$Private</pre>
Y <- college$Grad.Rate
# Assign rows to leaves
leaf1 <- which(X=="Yes")</pre>
leaf2 <- c(1:n)[-leaf1]</pre>
# Compute the means and use them for prediction
mean1 <- mean(Y[leaf1])</pre>
mean2 <- mean(Y[leaf2])</pre>
preds \leftarrow rep(0, n)
preds[leaf1] <- mean1</pre>
preds[leaf2] <- mean2</pre>
# Calculate the training RSS
RSS <- sum((Y - preds)^2)
#Return the training RSS
```

[1] 203101.6

Question 3

Now, using the rpart code, create a tree using only Private as a feature. Call tree Tree1. Show a visualization of your tree as your answer.



Tree1: Regression Tree Using only the Private feature

Question 4

Based on your tree, what percent of your training data comes from public schools? Based on Tree1, 27% of the training data comes from public schools.

Question 5

Based on your tree, what graduation rate would you predict for a public school? The predicting graduation rate for a public school is 56.

Question 6

Fit a least squares linear regression model for graduation rate, using whether or not a school is a private school as a feature. Call this model LSLR1. Write out the fitted regression line.

Only using the feature "Private", the fitted LSLR model has the regression line of Grad.Rate = 56.042 + 12.956 PrivateYes

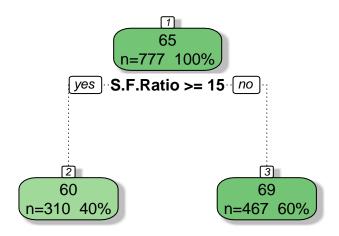
Question 7

Based on the LSLR model, what graduation rate would you predict for a public school? Keeping in mind that in the visualization our trees round to the nearest whole number, how do these predictions compare to those you made from the tree?

Based on the regression line of the LSLR model, the predicting graduation rate for a public school would be 56.042. The predictions from both the tree model and the LSLR model is almost the same, since the prediction from the tree model is also 56.042.

Question 8

Create a tree using only student faculty ratio as a feature. Use the maxdepth = 1 stopping criterion to make sure that for the moment, the tree only has one split. If you don't do this, the tree will keep growing, and for now, we only want one split. Call tree Tree2, and show a visualization of your tree as your answer.



Tree2: Regression tree using only the S.F.Ratio feature

Question 9

Based on your tree, what graduation rate would you predict for a school with a student faculty ratio of 10 (1 student to 10 faculty)?

Based on Tree2, the predicting graduation rate for a school with a student faculty ratio of 10 would be 69.

Question 10

Fit a least squares linear regression model for graduation rate, using student faculty ratio as the only feature. Call this model LSLR2. Write out the fitted regression line.

Only using the "S.F.Ratio", the LSLR model fitted has the regression line of $\widehat{Grad.Rate} = 84.2168 - 1.3310S.F.Ratio$

Question 11

Based on your LSLR model, what graduation rate would you predict for a school with a student faculty ratio of 10 (1 student to 10 faculty)? How does this compare to what you get from a tree?

Based on the LSLR model we just built, the graduation rate we would predict for a school with a student faculty ratio of 10 is 70.9068. This result is different from the prediction we get from the tree model which is 69.

Question 12

Find the test MSE for your tree and for your LSLR model with student faculty ratio as a feature. Based on test metrics, which model would you choose and why?

```
# Use LOOCV technique to do the cross validation
# Store the number of rows into n
n <- nrow(college)
# Create space to store the residual sum of squares for both models
rss_Tree2 <- rep(0,n)
rss_LSLR2 <- rep(0,n)</pre>
```

```
# For loop to perform the LOOCV technique
for (i in 1:n) {
  # Train the models with each i
 Tree2CV <- rpart(Grad.Rate ~ S.F.Ratio, method = "anova", data = college[-i,], cp = 0.02, maxdepth =
 LSLR2CV <- lm(Grad.Rate ~ S.F.Ratio, data = college[-i,])
  # Make prediction with both models for each i
 yhat_Tree2 <- predict(Tree2CV, newdata = college[i,])</pre>
 yhat_LSLR2 <- predict(LSLR2CV, newdata = college[i,])</pre>
  # Calculate the residual sum of squares for each model
 rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2</pre>
  rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2
}
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## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
## to replace is not a multiple of replacement length
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss LSLR2[i] <- (college$Grad.Rate - yhat LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items</pre>
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items</pre>
## to replace is not a multiple of replacement length
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items</pre>
## to replace is not a multiple of replacement length
## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items
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## Warning in rss_Tree2[i] <- (college$Grad.Rate - yhat_Tree2)^2: number of items</pre>
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```

```
## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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```

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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
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## Warning in rss_LSLR2[i] <- (college$Grad.Rate - yhat_LSLR2)^2: number of items
## to replace is not a multiple of replacement length

## Compute the test MSE for both the models

MSE_Tree2 <- mean(rss_Tree2)

MSE_LSLR2 <- mean(rss_LSLR2)</pre>
```