Name		Date
	LAB 4C: Cross-Validati	ion

Directions: Record your responses to the lab questions in the spaces provided.

What is cross-validation?

Step 1: train-test split

Explain these lines of code and describe the train and test data sets.

Aside: set.seed

Aside: train-test ratio

Step 2: train the model

Step 3: test the model

Calculate the MSE in the same way as you did in the previous lab (test MSE is simply MSE of the predictions on the test data).

Recap

Why cross-validate?

Example of overfitting

- Which model does a better job of predicting the 7 training points?
- Which model do you think will do a better job of predicting the rest of the data?

Example of overfitting, continued

Which model does a better job of generalizing to the rest of the arm_span dataset?