

Name _____

Date _____

LAB 4C: Cross-Validation Response Sheet

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

What is cross-validation?

Step 1: training-test split

- **Explain these lines of code and describe the training and test datasets.**

Aside: set.seed

Aside: training-test ratio

Step 2: training the model

Step 3: test the model

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?**