LAB 2F: The Titanic Shuffle Response Sheet

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

Previously ...

The Titanic

• Based on the plot, do you believe that passengers who paid a higher fare on the Titanic were more likely to survive? Explain why and describe how certain you are of being correct.

The search begins!

• What was the *typical* fare paid by survivors? Non-survivors? How much more did the typical survivor pay?

Do the shuffle!

Put your simulations to use

- By using your shuffled data, answer the research question we posed at the beginning of the lab.
- Write up your answer as a statistical analysis. Create a plot and explain how the plot supports your conclusion. Be sure to also explain why shuffling your data is important.

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Comparing Mean Fares

• If we did this 500 times, what do you predict the distribution of differences will look like?

• What does the shuffled data reveal? Does the answer to the research question below change when using the mean fares instead of the median fares?