Week 3 Lab: Probability

5/5 points earned (100%)

Quiz passed!

Back to Week 3

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1 / 1 points

1.
Fill in the blank: A streak length of 1 means one ___ followed by one miss.

- [x] hit

Correct Response

- [ ] miss

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1 / 1 points

2.
Fill in the blank: A streak length of 0 means one ___ which must occur after a miss that ended the preceding streak.

- [ ] hit
- [x] miss

Correct Response

1 / 1
points

3.
Which of the following is *false* about the distribution of Kobe's streak lengths from the 2009 NBA finals.

- [x] The shortest streak is of length 1.

Correct Response

- [ ] The typical length of a streak is 0 since the median of the distribution is at 0.
- [ ] The longest streak of baskets is of length 4.
- [ ] The IQR of the distribution is 1.
- [ ] The distribution of Kobe's streaks is unimodal and right skewed.

1 / 1
points

4.
If you were to run the simulation of the independent shooter a second time, how would you expect its streak distribution to compare to the distribution from the exercise above?

- [x] Somewhat similar

Correct Response

- [ ] Totally different
- [ ] Exactly the same

1 / 1

points

5.

How does Kobe Bryant's distribution of streak lengths compare to the distribution of streak lengths for the simulated shooter? Using this comparison, do you have evidence that the hot hand model fits Kobe's shooting patterns?

- [x] The distributions look very similar. Therefore, there doesn't appear to be evidence for Kobe Bryant's hot hand.

Correct Response

- [ ] The distributions look very similar. Therefore, there appears to be evidence for Kobe Bryant's hot hand.
- [ ] The distributions look very different. Therefore, there appears to be evidence for Kobe Bryant's hot hand.
- [ ] The distributions look very different. Therefore, there doesn't appear to be evidence for Kobe Bryant's hot hand.