kh694_Hw3

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Quantitative Genomics and Genetics - Spring 2019
BTRY 4830/6830; PBSB 5201.01

Homework 3 (version 1)

Assigned February 12; Due 11:59PM February 16

Problem 1 (Easy)

a. Yes, this is a valid estimator. Any function that returns a value for a parameter is technically an estimator. However, creating an estimator that correctly represents the underlying probability distribution for the data is more difficult. $\hat{p} = 0.5$ would be correct if the coin is fair.

b. This would calculate the $\hat{p}$ based on the actual observations from the experiment, rather than relying on the underlying assumption that the experiment properly follows a Bernoulli distribution with $p = 0.5$, i.e. the coin is fair.

Problem 2 (Medium)

```
a <- 3+3
a
```

```
## [1] 6
```