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

Why do we *put a song back* each time we make a selection?

What would happen in our little experiment if we did not do this?

Once everyone in your class has computed their proportions, calculate the *range* of proportions (The largest proportion minus the smallest proportion) for your class and write it down.

Compute the proportion of "rap" songs for your 50 draws and find out if the *range* for your class' proportions is bigger or smaller than when we drew 10 songs.

Are the proportions still the same? If so, can you find two different values for set.seed that give different answers?

Answer this by estimating the probability that a randomly chosen student went to the movies using 500 simulations.

Write down both the estimated probability and the code you used to compute your estimate. You might find it helpful to write your answer in an R Script *(File -> New File -> R Script)*

Include set.seed(123) in your code before you do 500 repeated samples.