HW 4 Problems

Fishing in a pond (binning of hypotheses)

Suppose we had the follow hypotheses about the rate of fish biting in a pond

H_0: Rate of fish biting less than 1 per hour

H_1: Rate of fish biting between 1 and 5 per hour

H_2: Rate of fish biting greater than 5 per hour

To do:

Describe Bayesian approach for assessing hypotheses based on data collected for n fishermen with fisherman i fishing for t_i hours

Simulate data under one hypothesis and see how approach does

What happens to performance as we add more narrow hypotheses (more bins)?

Describe how to test whether fishing is better in one pond than another