PBIO 294 HW   6 Sep 2017

Name:

Solving the Monty Hall problem via simulation using R.

The problem. The contestant has three doors to choose from: door 1, 2, or 3. One door has a large prize behind it. The contestant chooses a door, and then Monty reveals one of the two remaining doors and there is no prize behind it. Monty then offers the contestant the chance to switch his choice of door to the other remaining door. Should the contestant change their door selection or keep their original choice? Does it matter?

Please code a simulation model in R to address this question. You must turn in a program that runs, is clearly annotated, and produces the correct result. Summarize and interpret the results of your simulation experiment.