Below you will find the code you saw during your Live Lab for Multiple Monte Carlo Games. Copy this code into your R Script.

**Part 1:** Add new code to give a third line of printed output that gives the results for a player who, in each game, randomly chooses to switch or stay.

**Part 2:** Comment the code appropriately to explain what each piece of code is doing. (Make sure to comment **both** the provided code and any new code you add)

#Code for Multiple Monte Carlo Games

n\_stay <- 0

n\_switch <- 0

for ( i in 1:100) {

door <- c(1,2,3)

cardoor <- sample(door,1)

choice <- sample(door,1)

goatdoors <- setdiff(door, cardoor)

reveal\_options <- setdiff(goatdoors, choice)

if (choice == cardoor) {

reveal <- sample(reveal\_options,1)

} else {

reveal <- reveal\_options

}

remaining\_doors <-setdiff(door, reveal)

newchoice <- setdiff(remaining\_doors, choice)

if (choice == cardoor) {

n\_stay <- n\_stay + 1

}

if (newchoice == cardoor) {

n\_switch <- n\_switch + 1

}

}

print(n\_stay/100)

print(n\_switch/100)