Monte Carlo Door problem

```
for (int i = 0; i < trials; i++) {
   int winningDoor = random.nextInt(3) + 1; //randomly chooses the winning door
   int chosenDoor = random.nextInt(3) + 1; //randomly chooses the door the contestants picks
   //if the winning door is logicly squivelent to the door the random generator picks
   if (winningDoor == chosenDoor) {
        correctPicks++;
    }
}</pre>
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                         for (int i = 0; i < trials; i++) {
   int winningDoor = random.nextInt(3) + 1; //randomly chooses the winning door
   int chosenDoor = random.nextInt(3) + 1;//randomly chooses the door the contestants picks</pre>
                                          revealedDoor = random.nextInt(3) + 1;
nile (revealedDoor == winningDoor || revealedDoor == chosenDoor);
                                 if (switchedDoor == winningDoor) {
   correctPicks++;
■ Console × 
sterminated> Tester (8) Hava Application| C\Users\laiden Nunez\.p2\pool\plugins\.org.eclips
Correct Picking Percentage without Switching: 33.3193%
Correct Picking Percentage with Switching: 66.59570000000001%
                                                                                                                                                                                                 public static void main(String[] args) {
   int trials = 1000000;
   DoorGame game = new DoorGame(trials);
                         double stayPercentage = game.monteCarloStay();
double switchPercentage = game.monteCarloSwitch();
                           System.out.println("Correct Picking Percentage without Switching: " + stayPercentage + "%");
System.out.println("Correct Picking Percentage with Switching: " + switchPercentage + "%");
                                                                                                                                                                                                                     ■ Console ×
<terminated> Tester (8) [Java Application] C:\Users\Jaiden Nunez\.p2\poo\\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\yre\bin\\javaw.exe
Correct Picking Percentage without Switching: 33.3193%
```