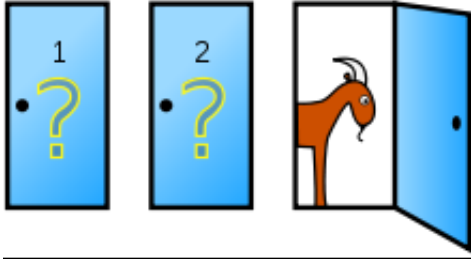


Puzzle 6 | (Monty Hall problem)

Suppose you're on a game show, and you're given the choice of three doors: Behind one door is a car; behind the others, goats. You pick a door, say No. 1, and the host, who knows what's behind the doors, opens another door, say No. 3, which has a goat. He then says to you, "Do you want to pick door No. 2?" Is it to your advantage to switch your choice?



Source: http://en.wikipedia.org/wiki/Monty_Hall_problem

Solution:

If you switch, you get the car with probability $2/3$. So switching is always a good choice. Refer [this](#) MIT video lecture for great explanation.