```
In [1]: import random
In [5]: def gameshow(n, switchOrKeep):
             i = 0
             get_prize = 0 #the count if the player win the prize
             while (i<n):
                 Doors = [1,2,3] #"1" = car; "2" = chicken; "3" = donkey
                 choice_player = random.choice(Doors) #let player choose one door first
                 if choice player == 1:
                      choice_host = random.randint(2,3) #host always choose the door without a car
choice_left = 2 if choice_host == 3 else 3 #the door left after they picked
                      choice host = 3 if choice player == 2 else 2 #host can just choose the one last door which has no car behin
                      choice_left = 1 #the only choice left is one door with car behind
                 if switchOrKeep == True: #if the player chose to switch the door
                     choice_player = choice_left
                 if choice player == 1:
                     get_prize +=1 #the count that player got the prize
                 i+=1
             return(get_prize/n)
```

In [6]: gameshow(1000,False)

Out[6]: 0.331

In []: