Programming Club Meeting 14 Slides

Problems

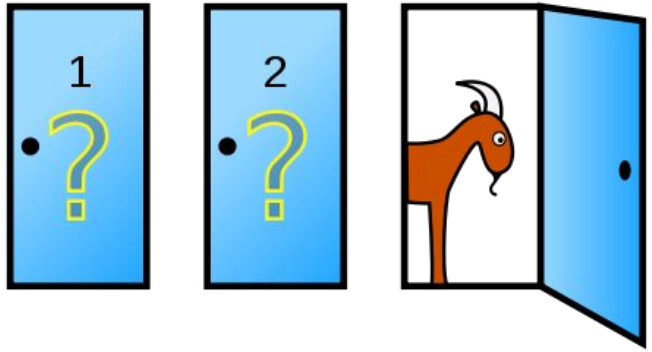
Practice Problem 1:

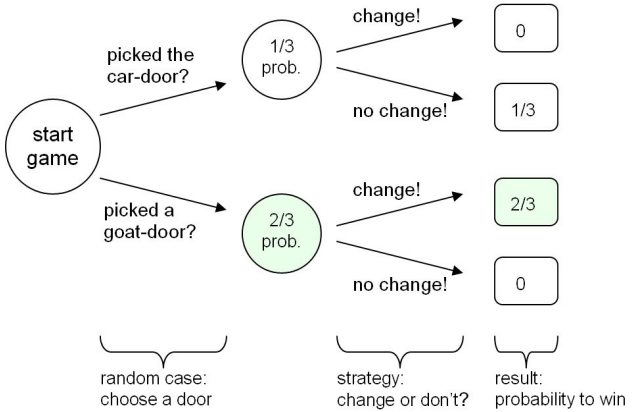
Missing Index

- Goal: Write a Python program that will determine the index value of the missing entry in the text file.
- Relevant Information:
  - You should look for lines that have an index on them and determine if that is the correct next value
  - You can find the text file for this problem on the GitHub in the “missingIndex” folder

Practice Problem 2: Monty Hall Problem Simulation

- Goal: Write a Python program that will simulate the Monty Hall problem with 100,000 runs.
- Relevant Information:
  - The Monty Hall problem involves 3 doors, behind 2 are goats and behind the other is a car. After a game show contestant picks a door, the host will remove one of the doors with a goat behind it (they will NOT remove the door that the contestant picked). The contestant can then choose whether to switch to the other remaining door or keep their choice. The problem asks whether the better choice is to switch or stay.
  - You should run the problem with randomized doors 100,000 times with and without switching and output the number of correct guesses for each method.





Extra Problems from Bloomsburg

- Solve problems from “Bloomsburg Comp 18.pdf”

Next Meeting: More Algorithms