Problem Statement

Monty Hall problem

When a contestant is to choose on of three gates, which behind one of them is a prize, one can choose strategy as a result of the rules of the game. After the initial choice of the gate one of the remaining gates that has no car behind it gets reveiled. Now the strategy is either to keep the initial gate or switch.

The most effective strategy in the long run is to ALWAYS SWITCH. This is because, one has always 2/3 chance of winning by swithcing. This is obvoius because, there is 1/3 chance of finding the prize which is behind 1 of the 3 gates, that means that there is 2/3 chance of NOT finding the prize. If we set our goal to NOT find the prize, and then switch when the empty gate opens, we will win with a 2/3 probability, because there is 2/3 chance of not finding the prize!

Rock Paper Scissors

Alternative Solutions

Construction/Implementation

Attachments

Lab Notes, HelloWorld.ic, FooBar.ic

References

[1]

[2] Flueck, Alexander J. 2005. *ECE 100* [online]. Chicago: Illinois Institute of Technology, Electrical and Computer Engineering Department, 2005 [cited 30 August 2005]. Available from World Wide Web: (http://www.ece.iit.edu/flueck/ece100).