

# Monty Hall problem

November 30, 2021

## 1 The Abstract

Assume that you are attending a TV show where you can win a cash prize by picking the right box. In front you are three boxes, one containing the cash prize and the other ones empty. You get to pick one, without opening it. After doing so one of the other two boxes are opened which is empty. Now the host of the show tells you that you can either stay with the one you picked or switch to the remaining one.

This is basically the Monty Hall problem. The answer is easily googled but that's not the task.

## 2 The Implementation

Using JS or TS, show which action is preferable. Write a program randomly simulating the scenario described in the abstract. Focus on readability, maintainability and delivery. Don't forget that this program is supposed to live for quite a while and that circumstances might change over time.

## 3 Restrictions

Timebox 2 hours.