Assignment Overview

**Week 2 Assignment**

In this week, We explored the way in which bookmakers operate, focusing on the relationship between betting odds and win probabilities. For this assignment we are going to look again at the NBA betting odds data for the 2018/19 season. We will look at how closely the implied win probabilities relate to actual wins for different subsets of the data. You will need to take the following steps to organize your data:

1. Load the NBA data
2. Calculate the implied win probability based on the bookmaker odds
3. Drop from the data all games for which home = 0
4. Then create the following subsets a. One for games where the absolute value of the points difference is less than 9 and another for games where the points difference is greater than 9 (9 is the median points difference in the data) b. One for games that went to overtime, and one for games which finished in regulation time c. One for games played in calendar year 2018, one for games played in calendar year 2019 d. One for each month in the data (October to April)

**Beware**: even though your code might get you to the correct answer at a given point, it is sometimes possible that the way you write it might interfere with completing a further step. So even if you get the answer right, you should look at the code we supply to check if you are going the same way. In practice, there are often many ways to get to answer in Python, and we do not insist that you follow our approach exactly – but simply warn you to be aware that differences could turn out to be problematic later.