**Predicting convergence in the Stag Hunt game**

The computations above illustrate Fictitious Plays’ performance in self play for 3 rounds. They have been conducted only for 3 rounds, because, in this case, 3 rounds are well enough to make a prediction on what solution strategies will converge.

The prior models for strategies were selected respectively P (stag) = 1, P (hare) = 0 and P (stag) = 0, P (hare) = 1. In fact, all the possible prior models can be organized as follows:

* 1. Probability of playing “stag” is higher than that of playing “hare”
  2. Probability of playing “stag” is equal to that of playing “hare”
  3. Probability of playing “stag” is lower than that of playing “hare”

It can be inferred that the selected strategies belong to 1-st and 3-rd points accordingly. Based on the performance of the strategies in first 3 rounds the prediction is that they will converge to the solution where the Row and Column Players are altering between “stag” and “hare” until the end of the game.

In the case when the selected prior models are 1-st and 2-nd points accordingly, strategies will converge to the solution where the Row Player plays “” and the Column Player plays action “’.

Likewise, in the case when the selected prior models are 1-st and 2-nd points accordingly, strategies will converge to the solution where the Row Player plays “” and the Column Player plays action “’.