NAÏVE STRATEGY
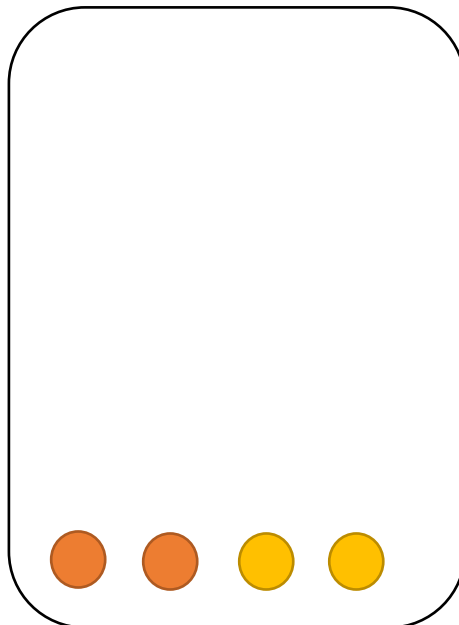
I had previously thought of using my own strategy however the success rate of guessing in less than ten moves was very low, therefore I had decided to research existing strategies used to increase the overall success rate of winning the game mastermind. I came across a strategy online and had experimented with strategy myself and had a higher success rate. (Please see footer section for reference to this strategy).

Below demonstrates the naïve strategy using diagrams and annotation I had made:
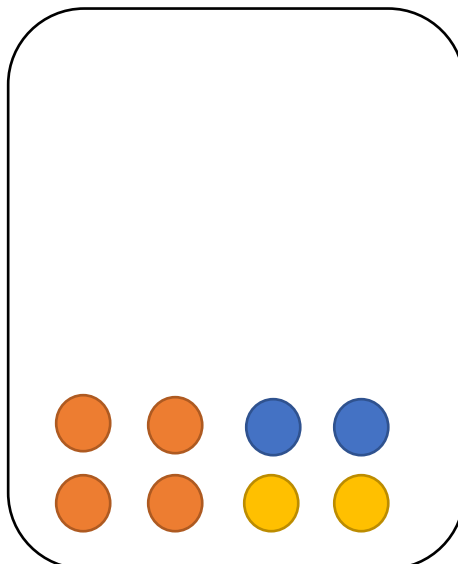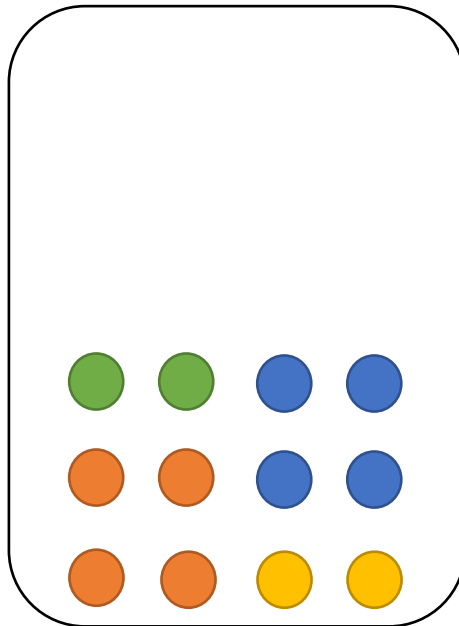
Steps:

Step 1:

The first step is to choose 2 of each colour (pictured in diagram).
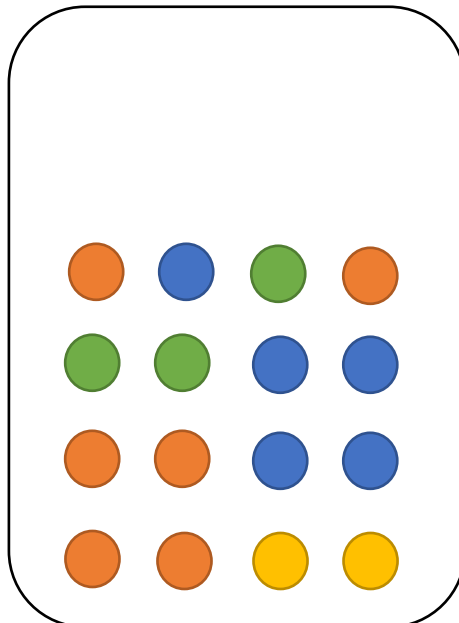
Step 2:

The second step is to keep the two previous on the left-hand side of board and pick to other random on right hand side of board (pictured in diagram).
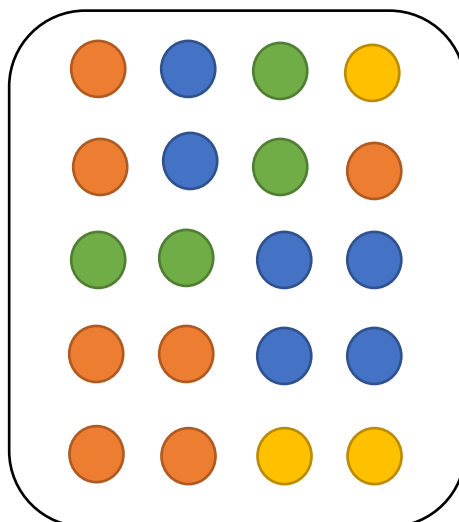
Step 3:

The third step is to keep the two previous on the left-hand side of board and pick two other random on the right hand side of board (pictured in diagram).

Step 3:

The fourth step is to take the first peg on first guess, shift it to first guess on current move. The third previous becomes the current 2nd position and the 2nd previous becomes the 3rd position, finally the 4th position is random.

Step 5:

The fifth step is to keep choosing a random colour for the 4th position until success.

Reference to naïve strategy: https://www.youtube.com/watch?v=XX5TlB6xT3M