

This main aim of this thesis is to compare two different strategies in Roulette -- betting on a color and betting on a single number. Betting on a color represents a conservative strategy with diversified asset and betting on a number represents a more risky strategy without diversification. Distribution of the Maximum, the Last Exit Time and the Number of Visits of zero will be given for each strategy using Martingales or Markov Chains. The theoretical results will be supported by Monte Carlo simulations.