R Assignment 5 - More Advanced Baseball Simulation

We are going to build on the previous simulation. This time we will have two teams, and try give a probability that predicts the outcome.

Simulation Assumptions: Every hitter in a game either gets some sort of hit, a walk, or strikes out. Further, you may assume there are no double plays, no errors, and that baserunners advance two bases on singles and doubles.

Statistics for First Team: The probabilty of a single is 930/6154, a double is 282/6154, a triple is 20/6154, a homerun is 213/6154, a walk is 603/6154, and a strikeout is 4106/6154.

Statistics for Second Team: The probabilty of a single is 929/6005, a double is 247/6005, a triple is 26/6005, a homerun is 147/6005, a walk is 508/6005, and a strikeout is 4148/6005.

What is the probability that the first team wins? Write and run a simulation to answer this question.

Submit your RMD file to the Gradescope assignnment *R Assignment 5 - Advanced Baseball Simulation*. It is due on Friday, February 28th, at 11:59pm.