Math 3600 — Goddard — Fall20

In-class Practice A1: Round-Robin Simulation

Consider a sports league where every team plays every other team exactly once. Assume draws are not possible.

1. Write a function that simulates the results, and counts up how many wins each team had. You should assume that for each game and each team, a win and a loss are equally likely.
   Input-parameter: How many teams
   Returned-data: Vector of counts.

2. Write a function that takes the vector of how many wins each team had, and prints out the ranking of the teams. Assume the teams are named A, B, etc. For example, if \texttt{wins = [1 0 2 0]}, your code might print out \texttt{A=2 B=3 C=1 D=3}, meaning that team \textit{C} was 1\textsuperscript{st}, team \textit{A} was 2\textsuperscript{nd}, and teams \textit{B} and \textit{D} were tied for 3\textsuperscript{rd}.
   Input-parameter: Vector of counts
   Returned-data: None