1. **Source data**
   1. *NBA standings and Elo values*
      1. *Pulled in from FiveThirtyEight into csv file*
   2. *NBA schedule*
      1. *Pulled in from ESPN website into csv file*
2. **Objects to create**
   1. Regular season standings data frame to continuously append as seasons get simulated
      1. Aggregate this at the end to get most common seed for each team
      2. Could do this before play-in game or after
   2. Playoff results
      1. What percentage of simulations team reached 2nd round, conference semifinals, finals, won championship
3. **Regular season**
   1. *Inputs*
      1. *Starting regular season standings and Elo values [team\_df]*
      2. *Schedule of games*
   2. *Apply*
      1. *Regular season simulation function*
      2. Creation of conference data frames for manipulation [sort and reset axis]
   3. *Output*
      1. *Final regular season standings and Elo values [team\_df]*
      2. *Conference standings appended after each run (pivot table aggregation later)*
4. **Play-in game**
   1. Inputs
      1. Final regular season standings and Elo values [team\_df]
   2. Apply
      1. Play in game function
   3. Output
      1. Pre-playoff standings with “playoff\_seed” and Elo columns [team\_df]
         1. Playoff seed may be different from regular season standing due to play-in round. 9th seed in “regular\_season\_seed” could become 8th seed in “playoff\_seed” if it wins the play-in round.
5. **Playoffs**
   1. Inputs
      1. Pre-playoff standings and elo values [team\_df]
   2. Apply
      1. Playoff function that takes in and modifies elo values
      2. Write round reached (2nd, Conf Semi, Finals, Champ) to team\_df
   3. Output
      1. Playoff results (round reached) in the same dataframe as team\_df
6. **Reporting**
   1. Regular season standings before play-in across 500 simulation
   2. Playoff seeds after play-in across 500 simulations
   3. Playoff round results across 500 simulations
7. **Presentation**
   1. Blog Post
   2. Jupyter Notebook
   3. Python code file