Background: Please re-read Assignment 2. Recall from that assignment that the simulation project that will evolve over the semester consists of the following:

1. Identify a problem where properties of a statistical method (e.g., an estimator or competing estimators, or a testing procedure or procedures) need empirical study.

2. Write a proposal for the simulation study you intend to carry out.

3. Design a specific set of simulation studies that address the objectives you have identified in your proposal, write relevant computer programs and carry out these studies, and write a full paper, in the form of a journal article, reporting on the studies and the results. The paper should integrate the background and objectives from your proposal into the presentation in whatever way you see fit. It should also describe in detail the design and why it was chosen. The results should be clearly presented and discussed, and the paper should offer interpretation of the results for general practice and a summary of what was learned. This document should follow the format and conventions of a regular journal article, including an abstract and references.

Thus, the paper should be a self-contained document in the spirit of a journal article that takes the reader through introduction of the problem, rationale for studying it, what was done and why, and what conclusions can be drawn.

4. Develop a 15-minute oral presentation of the material in your paper in item 3. Your presentation should be accessible to a broad audience with general training in statistics (but perhaps not in the particular problem area) and should communicate the main ideas and messages. Oral presentations will take place during the final exam period for the class.

For this assignment: You have already carried out tasks 1 and 2. Now, you should carry out task 3, taking the following into consideration:

- Recall that a submitted journal article is rarely more than 25 pages using a style of 1-inch margins with no more than 25 lines per page and 12-point type (usually no more than 20; see the handout on Academic Publication: Journals and the Journal Editorial Process for full details). Thus, your paper should follow this guideline.

- More generally, your paper should be accessible to someone with advanced training in statistics but not necessarily specific training in the area of your project. Thus, you may consider such a person to be your “target” reader. Clearly, then, you will need to provide enough background that this reader can understand the problem you are addressing and why it is important.

- Use \LaTeX.