1. [10 pts.] Draw or bracket the following noun phrases using GCG, as described in the lecture notes. If you are unsure about which category names to use, please explain your decision.
   (a) the truck that the pilot landed behind at the airport
   (b) the plane that the pilot landed behind a truck at the airport

2. [5 pts.] EXTRA CREDIT Readers typically encounter processing difficulty at the word *at* in Sentence (a) from Problem 1. Try to explain this using GCG rule probabilities.

3. [10 pts.] Assign discourse referents to the sentence:
   (a) most people dream during every sleep

   using an existing system or a system of your own invention. Label and describe each referent.

4. [5 pts.] EXTRA CREDIT Assign discourse referents to the following discourse:
   (a) several ants were on the table
   (b) some of them were in the jam

   using an existing system or a system of your own invention. Label and describe each referent.

5. [10 pts.] PROJECT: Write a background section (of about 20 sentences) including at least four relevant references for your project. Please include a complete bibliography.

6. [10 pts.] PROJECT: Write a model section (of about 20 sentences) describing the experiment or modeling approach you will implement in your project.