6.871 PROJECT REPORT 2: PROGRESS REPORT

Please submit one report per project group. You should answer many of the same questions as in the project proposal, but this time give updated answers based on your (presumably) better understanding of what you will be doing, what your program will know, etc.

- Project title and a list of the group members.

- What will the program do?

  - Indicate *as precisely and concretely as possible* what the input to the program will be.
  - Indicate *as precisely and concretely as possible* what the output from the program will be.
  - Indicate the scope of coverage you are aiming for (i.e., what class or family of problems will your program be able to do, and at what level of expertise.)

- Description of the knowledge

  - What will the program have to know? Answer this in two ways:
    * Give one concrete example of the program in simulated operation, by creating one specific example of input and output, then using this to "walk through" a simulated run of the program. This will help you to get a feeling for what kind of and how much knowledge is required.
    * If possible, describe the breadth of knowledge (i.e., the discipline of sub-disciplines that are involved).
  - Give at least three examples of specific rules, frames, etc., that you believe would be useful for the program to have in its knowledge base. Indicate what kind of knowledge each represents (e.g., default, prototype, empirical association).

- Description of the knowledge representation and reasoning

  - Which knowledge representation seems to best match your knowledge and task? Why?
  - Are there other representations that you are considering? How well do they match?

- Description of knowledge acquisition

  - Where are you getting the required knowledge? If books, give the name(s); if people give the name(s) and some indication of why they would have the required expertise.
  - Indicate what you have accomplished so far in knowledge acquisition. For example, how many examples have you talked about or worked through with the expert/book? What examples are they?