Formal Specification of Abstract Datatypes

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Form two groups of 3 members each; both groups separately perform the project described below. Within each group, distribute work such that every member receives her fair share.

As for grading, you may either present the deliverable as the result of the whole group or explicly denote the author of each individual contribution.

Project: Expanded Vocabulary System

Create a specification of the expanded vocabulary system described in Section 7.1 of the accompanying document. Use common sense to resolve ambiguities such that the resulting specification models the system in a useful way.

In particular, the specification document shall consist of

1. a formal loose specification (with [free] constructors) presented in a nice way with ample natural-language explanations.
2. a rapid prototype implementation in CafeObj with some sample runs that demonstrate the essential aspects.

The deliverables of this exercise consist of

1. the specification document,
2. a 45 minutes slide/computer-based presentation,
3. a Web page where the results are collected and documented (contact me for the location).

Deadline and Presentation: February 4, 16:30-18:30.