

SOFTWARE ENGINEERING
SPRING 1998

PREGOODIE #1 AND GOODIE #1

Form teams, each consisting of two students. Each team is to implement *concord*, as described in the attached manual page.

You are expected to apply the techniques learned in MATAM and described in the lectures, mainly abstract data typing and information hiding. In fact, you will lose many points if you do not apply this techniques to the problem even if you do well otherwise. Moreover, if you do well on Goodie #1, you will find the subsequent goodies easier. I understand that it is difficult to know ahead of time how I will be grading; it is always a matter of my interpretation of what I require versus yours. Therefore, you will get a chance to redo Goodie #1 using the feedback you get from me in order to improve your grade up to 90% of what the goodie counts *and* to have a better version to use for the subsequent goodies.

For the pregoodie, you are to hand in only

1. two copies of module diagram, showing in the style of my drawings for the “Information Hiding” lecture, the modules of your program and their use of other modules, and
2. module descriptions, showing only the name of the module and the header of each procedure invocable from the module, i.e., in C++-terminology, a collection of *.h* files but with *no* private or protected data. To distinguish these from the normal *.h* files that must have private and protected data, these can be called *.mod* files. Either each procedure is named so that its function is obvious or you will have comments explaining its function. For an example of how this should be done, see the KWIC examples at the end of the “Faking It, Advice on Documentation” lecture. Because the scope of this assignment is smaller than the normal industrial situation addressed by the example, you are *not* to show me the secrets hidden by the modules and there is no need to expand the main program into full details as was done in the examples.

This amounts to a decomposition into modules of the software that you will be writing. The purpose of the pre-goodie is to get feedback from me on the decomposition *before* you possibly implement a lousy decomposition.

The pregoodie is due in the hands of Prof. Berry or in the mail box of Prof. Berry by 14:30 on 25 March, 1998.

For the goodie itself, you may use *any* decomposition you wish, yours, mine, or some mixture of the two. The goodie is due in the hands of Prof. Berry or in the mail box of Prof. Berry by 14:30 on 6 May, 1998.