Software Engineering Comprehensive Exam

Spring 2001

Each question is worth 25 points.

1. Describe the conditions under which it is acceptable to skip specification and go straight to design and the conditions under which it is acceptable to skip design and go straight to development.
2. Describe the process of information hiding in detail. What type of problems is it designed to solve? How does information hiding relate to object orientation? How does it relate to global data and data coupling? Give an example of when you would use information hiding.
3. Describe the process of stepwise refinement. What type of problems is it designed to solve?
4. Write a specification for a telephone answering machine.