Pledge: I pledge my honor that I have abided by the Stevens Honor System. - Eric Altenburg

1.6: As software becomes more pervasive, risks to the public (due to faulty programs) become an increasingly significant concern. Develop a doomsday by realistic scenario in which the failure of a computer program could do great harm, either economic or human.

2.8: Is it possible to combine process models? If so, provide an example.

Yes, it is possible to combine process models, in fact, some software development departments/companies do not use a traditional process model. Instead, they end up using a proprietary process model which is just a combination of other more traditional process models that better suits their work flow/products.

A few examples of combined process models include:

- 1. Evolutionary process model
 - Combination of iterative and incremental approach.
 - Over time, incrementally create a more complete version of software (more so than the last) and for each of these incremental builds, a complete cycle of activities are completed.
- 2. Spiral model
 - Combination of iterative and sequential linear approach; waterfall with emphasis on risk analysis.
 - Similar to the evolutionary process model, it produces versions of software over time more complete and refined than the last.
- 3. Incremental process model
 - Combination of one or more waterfall models.
 - This model produces a series of releases that provide more functionality for the customer and these builds are individually designed, tested, and delivered at specific deadlines.
- 2.9: What are the advantages and disadvantages to developing software in which quality is "good enough"? That is, what happens when we emphasize development speed over product quality.
- 3.2: Describe agility (for software projects) in your own words.
- 5.1: Based on your personal observations of people who are excellent software developers, name three personality traits that appear to be common among them.

6.6: Of the eight core principles that guide process (discussed in Section 6.1.1), what do you believe is more important?

7.1: Why is it that many software developers don't pay enough attention to requirements engineering? Are there ever circumstances where you can skip it?

7.5a: Develop a complete use case for making a withdrawal from an ATM.

8.1: Is it possible to begin coding immediately after a requirements model has been created? Explain your answer, and then argue the counterpoint.

8.10: How does a sequence diagram differ from a state diagram? How are they similar?