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Reference: Luqui, and Goguen, J. A., "Formal Methods: Promises and Problems," IEEE Software, pg. 73-85, Jan. 1997.

Homework due March 2, 1999 (No more than 4 pages)

1. What are formal methods?

2. Identify the typical steps in formal specifications.

3. What is the major pitfall of using formal methods in an industrial environment?

4. How can formal methods be more effectively used in an industrial environment?

5. What are the formal foundations of formal methods?

6. What is the *traditional tole* of formal methods?

7. Briefly compare/contrast small-grain methods to large grain methods.

8. What are the caharacteristics/attributes of tools used for successfully applying formal methods?

9. Can formal methods help in reusability? If so, how?

10. What is the difference between formal methods and formal models?

11. List exactly the original seven myths of formal methods (short answer). You may want to do some digging into the original paper.