SE-410 Homework 2

Cameron Stark

2.7.1: Explain the Difference between software reliability and system availability.

2.7.2: What is software dependability?

2.7.4: Describe the Cleanroom methodology.

3.18.1: What are formal methods and describe their potential benefits? How essential is tool support?

3.18.4: Discuss the industrial applications of formal methods and which areas have benefited most from their use? What problems have arisen?

3.18.6: Explain the difference the model-oriented approach and the axiomatic approach.

4.6.1: What is a set? A relation? A Function?

4.6.2: Explain the difference between a partial and a total function?

4.6.3: Explain the difference between a relation and a function?

4.6.4: Determine A x B where A = { a ,b ,c ,d} and B = { 1, 2, 3 }

4.6.11: Give examples of injective, surjective, bijective functons.