

Intro to Software Engineering: Assignment 10

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Review Questions

1. Consider the diagram shown in **Figure 10.8**
 - (a) How many logical paths are there? List them all.
 - (b) How many paths are required to cover all the statements?
 - (c) How many paths are required to cover all the branches?
2. In code inspection, what would you set as the condition(e.g., how many discovered defects) for reinspection?
3. List the four techniques discussed to perform verification and validation?
4. List two techniques you can use to perform validation – that is, to ensure your program meets user requirements.
5. Briefly explain the concept of static analysis, and to which software products it can be applied.
6. Briefly explain two different ways to decide when to stop testing.
7. Consider the simple case of testing 2 variables, X and Y , where X must be a non-negative number, and Y must be a number between -5 and +15. Utilizing boundary value analysis, list the test cases.
8. Describe the steps involved in a formal inspection process and the role of a moderator in this process.
9. What is the difference between performance testing and stress testing?