CS6403 Software Engineering

TADR (Think, analyse, discuss and respond) – 5

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1. Do you design software when you “write” a program? What makes software design different from coding? If a software design is not a program (and it isn’t), then what is it?
2. How do we assess the quality of a software design?
3. Discuss the relationship between the concept of information hiding as an attribute of effective modularity and the concept of module independence.
4. How are the concepts of coupling and software portability related? Provide examples to support your discussion.
5. How is a transaction center different from a transform center in a data flow diagram?
6. Why are control components necessary in traditional software and generally not required in object-oriented software?
7. Select three components that you have developed recently and assess the types of cohesion that each exhibits. If you had to define the primary benefit of high cohesion, what would it be?
8. Select three components that you have developed recently and assess the types of coupling that each exhibits. If you had to define the primary benefit of low coupling, what would it be?