



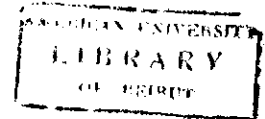
Final exam, 2:00 hours

Name:

Id#:

I. True and false (30 pts)

Indicate if each of the following statements is true (T) or false (F):



- a. T F Patterns are more abstract and general than frameworks
- b. T F Separation of concerns is relatively new research area and is not considered an issue for design patterns.
- c. T F When a group of classes collaborate among themselves to accomplish a cohesive set of responsibilities they are referred to as an object hierarchy
- d. T F The reengineering philosophy suggests that an organization totally abandons old organizational d operational principles
- e. T F In the context of OO, a class can be considered as a template.
- f. T F A class accomplishes information hiding by making the variables private
- g. T F Object-oriented designs do not need to be implemented using object-oriented programming techniques.
- h. T F An instance of the parent class should be able to substitute for an instance of a subclass.
- i. T F Static and dynamic binding postpone the error detection to the execution time. One by appropriate types and the other by appropriate implementation.
- j. T F Behavioral patterns describe the static relationships between the objects and the classes but do not describe how the objects communicate.

II. Design patterns (30 pts)

- 1. Explain briefly the singleton design pattern, its intent, applicability and participants. When the Java language is used for its implementation one major problem is faced, what it is and how it is solved.

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2. Is it true that in the MVC design pattern the Model cannot access its controller(s) or view(s). In both cases explain why. Explain briefly how this design pattern works.

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III. Reading (40 pts)

1- Give a title to the paper you have and summarize its main points, be brief and try to use simple phrases. Criticize it from what you've read on the field and what we've talked about in the class.

Title:

The paper talks about:.....

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In my opinion.....
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