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CSE 70

Name _____

Quiz 5

cs70f _____

Fall 2009

Student ID _____

This quiz is to be taken **by yourself** with closed books, closed notes, no electronic devices.

1) Match each pattern with its description:

| Pattern |
|----------------------|
| ____ Strategy |
| ____ Adapter |
| ____ Iterator |
| ____ Facade |
| ____ Composite |
| ____ Observer |
| ____ Template Method |

- A) Clients treat collections of objects and individual objects uniformly
- B) Provides a way to traverse a collection of objects without exposing the collection's implementation
- C) Simplifies the interface of a group of classes
- D) Changes the interface of one or more classes
- E) Allows a group of objects to be notified when some state changes
- F) Encapsulates interchangeable behaviors and uses delegation to decide which one to use
- G) Defines the steps of an algorithm and allows subclasses to decide how to implement one or more steps

2) To make a Turkey look like a Duck, we need to provide an adapter interface

- A) with the Turkey methods and implement them with calls to equivalent Duck methods
- B) with the Duck methods and implement them with calls to equivalent Turkey methods
- C) with both Turkey and Duck method and implement them with calls to each other's equivalent methods
- D) that uses reflection to create a Turkey object each time the client requests a Duck object
- E) that throws an UnsupportedOperationException each time the client tries to use any Duck method
- F) that throws an UnsupportedOperationException each time the client tries to use any Turkey method

3) Circle the incorrect answer. According to the Principle of Least Knowledge, objects should only invoke methods that belong to

- A) the object itself
- B) any object the method creates/instantiates
- C) any object returned from calling other methods
- D) any object passed in as a parameter to the method
- E) any component of the object (for example, instance variables referencing other objects)

4) What question would you like to see on the Final Exam?