NPTEL » Object Oriented System Development using UML, Java and Patterns Announcements About the Course Ask a Question Progress Mentor Unit 14 - Week 12: Course outline Assignment 12 How does an NPTEL online Due on 2020-12-09, 23:59 IST. The due date for submitting this assignment has passed. course work? As per our records you have not submitted this assignment. Week 0: 1 point Suppose you are creating a drawing editor. You wish to allow attaching header and footer frames Week 1: to a drawing object recursively and dynamically, which one of the following design patterns would Week 2: you use? a. Chain of responsibility Week 3: b. Adapter c. Decorator Week 4: d. Composite Week 5: Week 6: Week 7: ○ c. Week 8: No, the answer is incorrect. Score: 0 Week 9: Accepted Answers: Week 10: 1 point Week 11: Which one of the following is FALSE regarding the decorator pattern? a. When a decorator gets a call, it relays to one of the many objects that it recursively nests Week 12: based on a decision process. Lecture 56 : Proxy Pattern - II b. The Decorator is indistinguishable from the object that it contains and from any other Lecture 57 : Decorator Pattern concrete instances, including other decorated objects. c. Designers can recursively nest decorators without any other object being able to tell the Lecture 58 : Decorator Pattern difference. Lecture 59 : Decorator Pattern d. The decorator pattern can be used to add additional functionality to a particular object at run time as opposed to statically adding additional functionality a class of objects by Lecture 60 : Iterator Pattern subclassing. Lecture Materials For Week 12 Quiz : Assignment 12 Feedback for week 12 d. Download Videos No, the answer is incorrect. **Assignment Solution** Accepted Answers: Live Interactive Session 1 point **Text Transcripts** Which one of the following class structures most closely corresponds to the decorator design pattern? Client ----> component Client ----> Decorator Concrete component Concrete component Client ---> component Client -Concrete Component Decorator Concrete ComponentA Generate decoratorB Concrete decoratorA a. A c. C d. D ○ a. ○ d. No, the answer is incorrect. Accepted Answers: 1 point Which one of the following statements is **FALSE** concerning the Decorator pattern? a. Decorators recursively nest objects in the form of a tree hierarchy in which some objects are atomic objects and others are groups of objects b. Decorators are the same base type as the objects they decorate c. Decorators contain a reference to the object they are decorating d. It is possible to chain decorators, that in effect realizes behavior similar to applying multiple extensions ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Which one of the following patterns is not a wrapper pattern? a. Adapter b. Decorator c. Proxy d. Bridge ○ a. ○ c. d. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Which Design Pattern should you use when you want to add responsibilities to individual objects dynamically and transparently without affecting other objects? a. Bridge b. Adapter c. Proxy d. Decorator ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Suppose you have developed a photo album application that can contain up to 10,000 photographs. The average size of each photograph is 5 Mbytes. You want the photo album application to have very good response time. Which one of the following design patterns can help you to achieve that? a. Decorator b. Proxy c. Bridge d. Composite ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Suppose you have developed a gaming application. The game's configuration is stored in a configuration object. You want all players to be able to see the game's configuration, but only the expert players should be able to modify it. Which one of the following design patterns will help you to achieve this in the most meaningful way? a. Decorator b. Proxy c. Bridge d. Composite ○ a. No, the answer is incorrect. Accepted Answers: 1 point Suppose you have developed a students' grading software. The Grade information shared by teachers and students. However, only the teachers should be able to post and modify grades. Which one of the following design patterns will help you to achieve this in the most meaningful way? a. Decorator b. Proxy c. Bridge d. Composite ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Consider an application in which several client objects share a server object, as the server object is heavy weight. However, when any client object tries to change any internal data of the server object, it should be given a copy of the server object. The remaining client objects continue to share the original serer object. Which one of the following design patterns will help you to achieve this in the most meaningful way? a. Decorator b. Proxy c. Bridge d. Composite ○ a. No, the answer is incorrect. Accepted Answers: 1 point Which one of the following well-known design patterns has the class structure as shown below? List Try Create() First() Next() IsDone() CurrentItem() CircularList ConcreteTry Create() a. Decorator b. Iterator c. Proxy d. Composite ○ a. No, the answer is incorrect. Accepted Answers: 1 point Which one of the following is not a basic method supported by an iterator?

a. Reset

b. next

c. Get

d. hasNext

e. delete

○ a.

Score: 0

No, the answer is incorrect.

Accepted Answers: