pasc) Tuesday 10/14/14 4156 review ch. 6 Command pattern client creates command object Store the command object at muster later client ashs muller to execute command may be used once or many times encapsulates a request con parameterze other objects with different a regust queve or log reguests - store+load support undoable operations - Undo Commond No command null object macro - array of commandobjects

pase 2 4156 Tuesday 10/14/14 ch. 7 adapter & Pacade patterns adapter - Intermedian, between code that expects on interface a service that provides a different interface Client makes request to adapter calling a method on taget interface adapter translates request into ore or More calls on adapter using adapter Mterface Chert receives result of call without adapter pattern converts the interface of a class into another interface the client expects, allows classes to work to sether even the the, have mon pathole interfaces (object adapter) m her tance - mhents from both sides I Tues day 10/14/14 4156 facade por hides complexity of one or mor classes behind where most clients do not need almost access to the underlying subsystem classes difference is to smplif us after an mterface facade pattern provides unified meterface subsystem metert is a higher-level meterface that makes subsystem easter to use design principle - principle of least hnowledge - limits interactions a class has whother classes att of other classes lots of dependencies - fasile (aha Lah of Demeter)

pase 4 Tuesday 10/14/14 4156 ch. 8 templak method pattern defines the sheleton steps of an algorithm a defers implementations of one or more steps to subclasses steps can be a b strad methods Subclass Must supply implementation or combe hools - empts or default mplementation that subclass need not provide tells subclasses indon't call us, we'll call you'll often used for frame works composes with anoth object to mplement entire algorithm

pase 5 4154 Tuesday 10/14/14 ch 9 Collections Iteratur Pattern - has Next()
next() provides a way to access the elements of an aggregate object sequentially who exposms underlying rep places tash of traversalon iterator make no assumptions a boot ordering composite pattern - allows to represent part whole hierarchies, leb clients treat individual objects a compand objects uniformly leaves a nodes in tree apply operations to whole or part desirt of thoyen Component interface - add, remove, get child plus operations some operations only make sense for composite or leaf

State pattern - allows on object to alter its behavior when internal state changes - object appears to change its class (wathe composition + delegation to its internal State variable)

Smilerto strateg pattern, but there chomed to also the determined by context n.t. State transition with a settemb the context object

State objects can be declared Statiz & shared among instances of the context (it no internal state specific to a context)

	Poc 9
Tuesda, 10/14/14	4156
ch. 11 poxy pattern	_
proxy-controls & manages acc	C12
remote proxy - local tepresent a of a remote obje sends operations to the real object a retuins results handles all lor level network	the et
Java RMI, etc.	
Chent Chent process serve serve	AZE
registry for where services 4 acces to local prox argumen b a return types must be sexalarable	fand
prox pattern - provides sums or placeholder to enother obj to control access to it	ate et

page 11 Tuesday 10/14/14 4156 model - uses Observer to heep dated view of controller updated not uten of a state chanses of or uten ller view/controller - Stratesy

was view object configured with

casual controller (stratesy) object View - com posite UI MUC for Web "Model 2" adaptation Jen been logic bean convention all properties private getter betters
public no-argument constructor
implement serializable interface

pase 2 Tucs day 10/14/14 4156 ch. 13 (last chapter) finally define "desion pattern"
- Solution to a problem
in a context context - recurring desisn schation problem-goal mtendy to achieve Solution - general design that resolves goal wit constraints example context - collection of objects problem - need to step thro w/o exposing collection impl. solution - encapsulate steration in onother class-iterator patterns ratalogs Conjut Four both domain speafa catalogs examples in ditt. prog long discovered, not muented - n/z of three

pase 13 Tuesday 10/14/14 4156 creational - object instantiation decouple chent from object it needs to motion to ate structural - compose classes or objects behavioral - how classes & objects interact to distrible responsibility creational - singleton, abstract factor, factor, method, others strutural - decorator, composite, proxy, facade, adapter, others behavioral - template Method, command, Sterator, observer, State, Stratesy jothers Mhertance composition template method most others adaptor, interpreter