CS 635 Advanced Object-Oriented Design & Programming
Spring Semester, 2006
Doc 1 Intro
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CS 635 Spring 06
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What is this Course About

Writing quality OO code

Design Patterns

Coupling & Cohesion

Unit Testing

Refactoring
Define:
Object
Class
Stack
  Abstraction
  Data
  Operations
What are the Problems with this?

class Stack
  def initialize
    @elements = Array.new
  end

  def empty?
    return @elements.empty?
  end

  def push(element)
    @elements.push(element)
  end

  def pop
    @elements.pop
    return elements
  end
end
Which class would you add this to?

Write code to convert integers to their english equivalent

11 -> eleven
45 -> forty five
public class A {
    public int x;
    public int y;
    public int z;
}

public class B {
    private int x;
    private int y;
    private int z;
    public int getX() { return x;}
    public int getY() { return y;}
    public int getZ() { return z;}
    public void setX(int value) {x = value;}
    public void setY(int value) {y = value;}
    public void setZ(int value) {z = value;}
}
import java.util.*;

public class Attendee {
    String firstName;
    String lastName;
    String home;
    String phone;
    String email;
    ArrayList seminars;

    public void setFirstName(String name) {firstName = name;}
    public void setLastName(String name) {lastName = name;}
    public void setHome(String homeAddress) {home = homeAddress;}
    public void setEmail(String address) {email = address;}
    public void setSeminars(ArrayList list) {seminars = list;}

    public String getFirstName(String name) {return firstName;}
    public String getLastName(String name) {return lastName;}
    public String getHome(String homeAddress) {return home;}
    public String getEmail(String address) {return email;}
    public ArrayList getSeminars(ArrayList list) {return seminars;}
}

Issues?