### The Last of the Producer App

### Plan for This Week

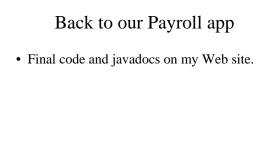
- Today
  The last of the Payroll App.
  Project 1
- Tomorrow and Wednesday: – Java I/O

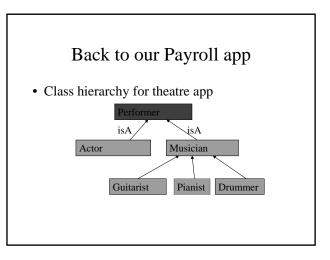
### Plan ahead...

- The week we return:
  - Wednesday, Jan 7<sup>th</sup> Exam 1
    - Will cover
      - Inheritance
      - Interfaces
      - Exceptions
  - Friday, Jan 9th
    - Project 1 minimum submission

### Before we start

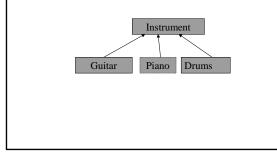
• Any questions?

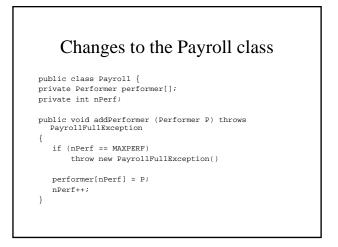


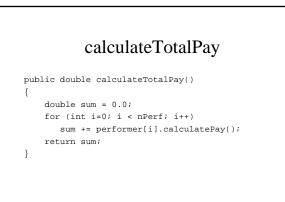


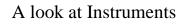


• Instrument hierarchy









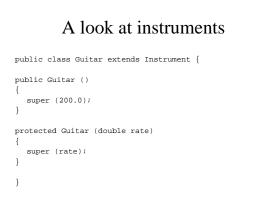
public abstract class Instrument {
 private double rentalCost;

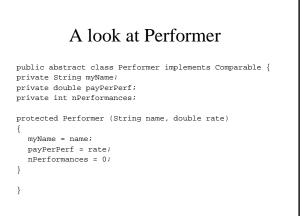
protected Instrument (double cost)

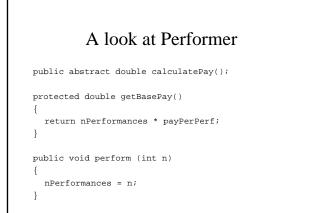
rentalCost = cost;
}

public double getWeeklyRental ()

return rentalCost;







# Now Actor public class Actor extends Performer { private static final double PAYRATE = 200.0; public Actor (String name) super (name, PAYRATE); public double calculatePay () return getBasePay();

### And Musician

public class Musician extends Performer {

private Instrument myInstrument; private static final double PAYRATE = 100.0;

public Musician(String name, Instrument I)

super(name, PAYRATE); myInstrument = I;

{

}

public double calculatePay()

return getBasePay() + myInstrument.getWeeklyRental(); }

## Finally Musician subclasses

public class Drummer extends Musician { public Drummer (String name) { super (name, new Drums()); }

}

}

{

}

}

### Payroll App

• Any questions?