//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// EmployeePayInfo.java

//

//

// For secure coding laboratory exercise which addresses

// potential vulnerabilities in extensibility through inheritance

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

public class EmployeePayInfo extends Employee

{

protected String socialSecurityNumber; V1

protected double payRate; V1

//-----------------------------------------------------------------

// Constructor: Establishes pay information for an employee

//-----------------------------------------------------------------

public EmployeePayInfo (String firstName, String lastName, String officeAddress,

String officePhone, String socialSecurityNumber, double payRate) V4 ✓ P

{ super (firstName V5, lastName V5, officeAddress V5, officePhone V5);

this.socialSecurityNumber = socialSecurityNumber V5;

this.payRate = payrate V5;

}

//-----------------------------------------------------------------

// Returns information about an employee as a string, including

// pay information.

//-----------------------------------------------------------------

public String toString() V4

{ String result = super.toString();

result += "\nSocial Security Number: " + socialSecurityNumber;

result += "\nPay Rate: " + payRate;

return result;

}

//-----------------------------------------------------------------

// Accessor and mutator methods for data members

//-----------------------------------------------------------------

public double getPayRate() V2 V4 ✓

{ return payRate; }

public String getSocialSecurityNumber() V2 V4 ✓

{ return socialSecurityNumber; }

~~public void setPayRate(double payRate)~~ V3 V4 ✓ P

{ this.payRate = payrate V5; }

~~public void setSocialSecurityNumber(String socialSecurityNumber)~~ V3 V4 ✓ P

{ this.socialSecurityNumber = socialSecurityNumber V5; }

}