The **Worst** of

Legacy Code :

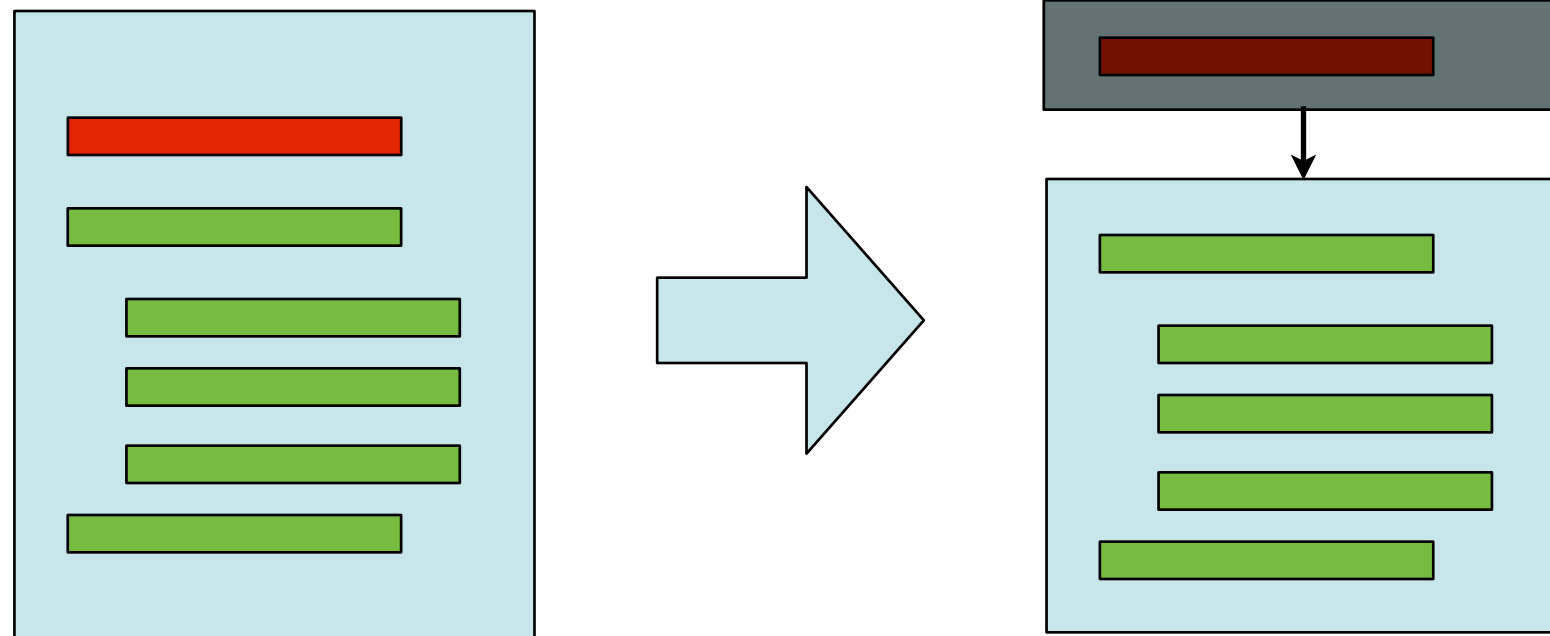Forensic Development

By Jason Kerney & Llewellyn Falco

Bug #54

If a home , auto and personal loan are taken out by tom, 3 versions of tom appear in the database.

Fixing Legacy Code

- run it
  - Computer
    - reproduce
    - debugger
    - logger
  - Head
    - Printout
    - Code Review
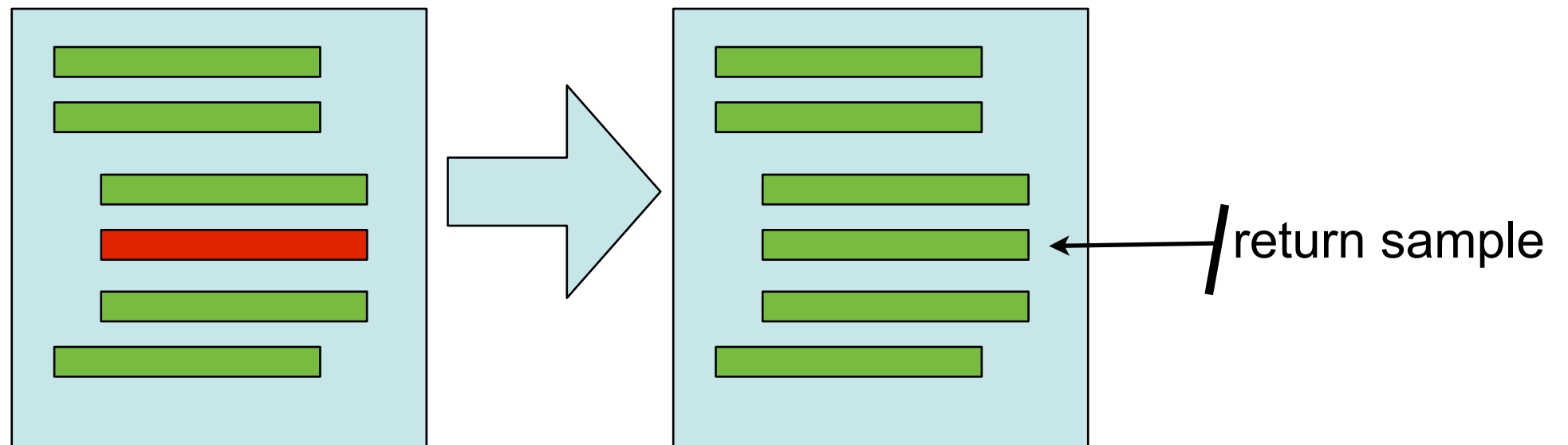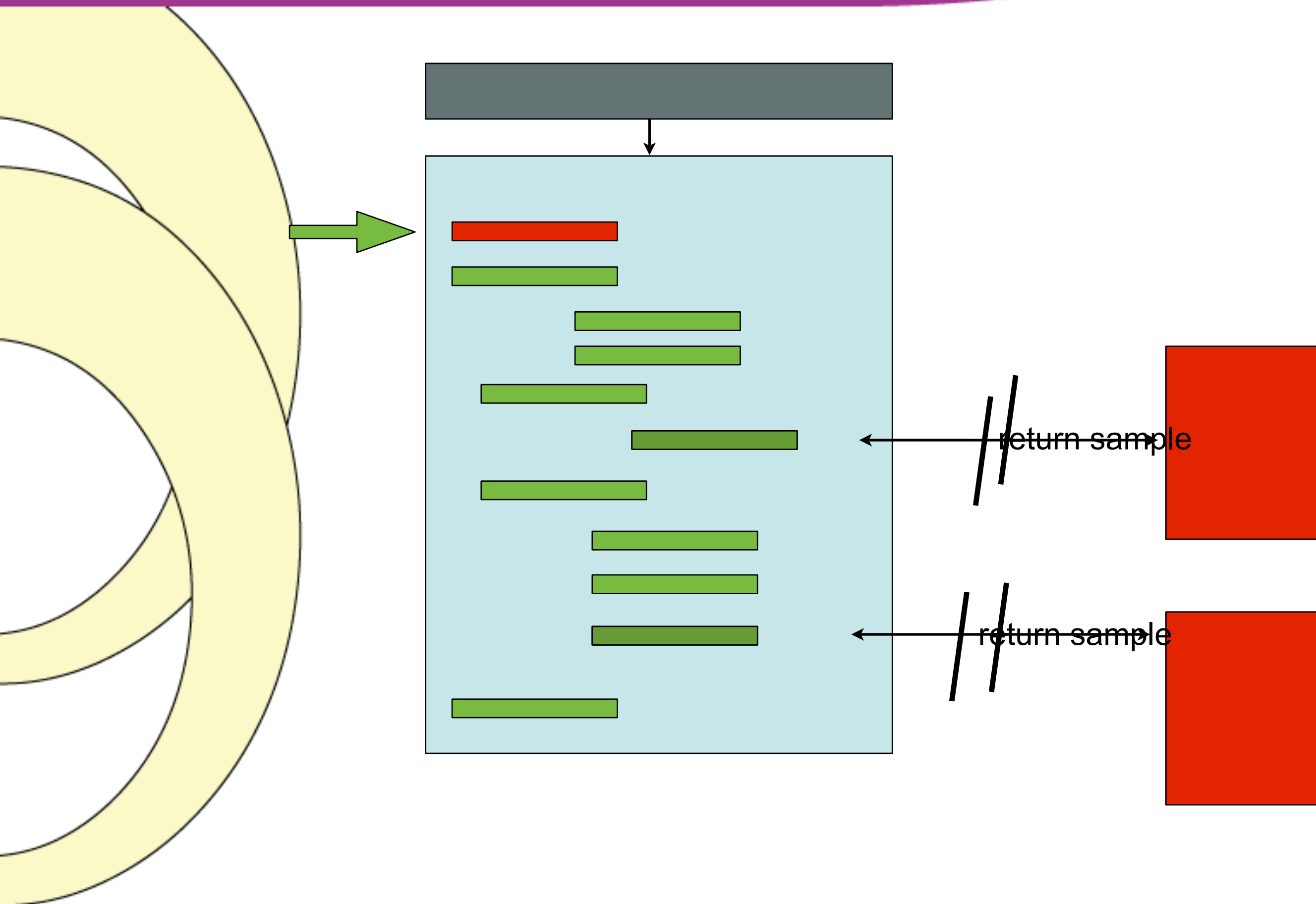   - Refactor

The Peel

```java
public double calculateTotalMortage(String name, Connection con)
{
    Person p = Person.loadPersonByName(name, con);
    double total = 0.00;
    if (p.getFinancalInformation().getHomeEquityLoan() != null)
    {
        total = p.getFinancalInformation().getHomeEquityLoan()
              + p.getFinancalInformation().getFirstMortagePayment();
    }
    else if (p.getFinancalInformation().getFirstMortagePayment() != null)
    {
        total = p.getFinancalInformation().getFirstMortagePayment();
    }
    return total;
}
```

```java
public double calculateTotalMortage(String name, Connection con)
{
    Person p = Person.loadPersonByName(name, con);
    Double home = p.getFinancalInformation().getHomeEquityLoan();
    Double mortage = p.getFinancalInformation().getFirstMortagePayment();
    double total = 0.00;
    if (home != null)
    {
      total = home
          + mortage;
    }
    else if (mortage != null)
    {
      total = mortage;
    }
    return total;
}
```

The Slice

return sample

```java
public void escalateProblems(Loan[] loans, Connection conn)
{
    for (Loan loan : loans)
    {
        if (loan.isOverDue() && (loan.getAmount() > 5000))
        {
            loan.saveStatus("Critical", conn);
        }
        else if (loan.isOverDue() && (loan.getAmount() > 50))
        {
            loan.saveStatus("Escalated", conn);
        }
    }
}
```

return sample

return sample

Question 1

When called with "ntsc" as the TvType,
What does the code do?

A) Creates 30 Frames #30 - 0
B) Run it to find out

Pop Quiz:

Question 2

To get this code to run,
how should you handle

web.getAttributes().get("TvFormat")

A) Peel

B) Slice

Question 3

To get this code to run,

how should you handle

maker.createFrame("" + frame);

A) Peel

B) Slice

Resources Java

Code Coverage : EclEmma

Mock Utility : EasyMock

Intro To TDD
(Test Driven Development)
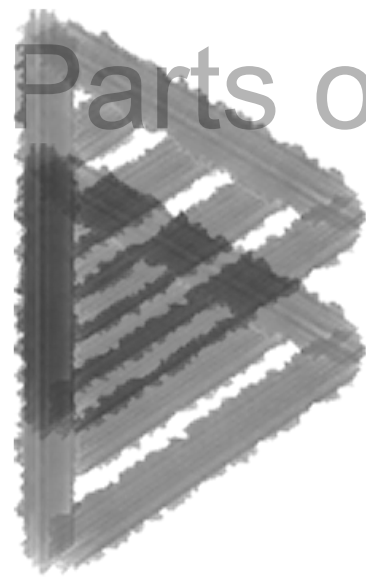**(2 day class)**

Final Thought

Parts of a Test
Do
Verify

Final Thought

Parts of a Test

Run

Verify

Contact

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