Due: 15/Feb/2015

Agile Techniques: Code Refactoring

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Extra Points – 01

Code Duplication (10 Marks)

How would you handle code duplication in the example below? The code below is correct: it does implement the functionality that it was intended for. However, the code below is messy and cluttered. Your work is to write a much neater version of the code below that implements exactly the same functionality that was originally intended for.

What to Hand In?

• A Props. java file that contains a refactored version of the Propos class implementation.

```
public class Props {
  public void getTimes(Properties props) throws Exception {
   String valueString;
   int value;
   valueString = props.getProperty("interval");
   if (valueString == null) {
    throw new MissingPropertiesException("monitor interval");
   value = Integer.parseInt(valueString);
   if (value <= 0) {</pre>
    throw new MissingPropertiesException("monitor interval > 0");
   }
   checkInterval = value;
   valueString = props.getProperty("duration");
   if (valueString == null) {
    throw new MissingPropertiesException("duration");
   value = Integer.parseInt(valueString);
   if (value <= 0) {</pre>
    throw new MissingPropertiesException("duration > 0");
   if ((value % checkInterval) != 0) {
    throw new MissingPropertiesException("duration%checkInterval");
   monitorTime = value;
```

```
valueString = props.getProperty("departure");
if (valueString == null) {
    throw new MissingPropertiesException("departure offset");
}
value = Integer.parseInt(valueString);
if (value <= 0) {
    throw new MissingPropertiesException("departure > 0");
}
if ((value % checkInterval) != 0) {
    throw new MissingPropertiesException("departure % checkInterval");
}
departureOffset = value;
}
```