

1 Example

1.1 Summary

Ground truth doc: This method `is` meant to be overridden. By default, no local variables
Synth origin doc: `this` parameter before any attribute local values before tag parsing `is` executed `is` not
Synth refactor doc: The value to the given expression `as` map key `if` found then value `as`

1.2 Original

```
protected Map<String, Object> computeAdditionalLocalVariables(final ITemplateContext context, final IProcessableElementTag tag, final  
    // This method is meant to be overridden. By default, no local variables  
    // will be set.  
    return null;  
}
```

1.3 Synthetic

```
protected Map<String, Object> computeAdditionalLocalVariables(final ITemplateContext context, final IProcessableElementTag tag, final  
    // this parameter before any attribute local values before tag parsing is executed is not  
    // will be set.  
    return null;  
}
```

1.4 Variant

```
protected Map<String, Object> resolveAccumulativeTopicalVector(final ITemplateContext context, final IProcessableElementTag tag, final Attr  
    // The value to the given expression as map key if found then value as  
    // will be set.  
    return null;  
}
```

1.5 Comment

TODO.

1.6 Discrepancy

Rouge score before refactoring: 0.7447447447447447
Rouge score after refactoring: 0.10810810810810811
Relative difference: 5.888888888888888

Put 5.8888 in (complexity=6, SCT=renameTokens)

2 Example

2.1 Summary

Ground truth doc: This method `is` meant to be overridden. By default, no local variables
Synth origin doc: `this` parameter before any attribute local values before tag parsing `is` executed `is` not
Synth refactor doc: `this` parameter should always exist since not more than `this` variable `is` expected to

2.2 Original

```
protected Map<String, Object> computeAdditionalLocalVariables(final ITemplateContext context, final IProcessableElementTag tag, final  
    // This method is meant to be overridden. By default, no local variables  
    // will be set.  
    return null;  
}
```

2.3 Synthetic

```
protected Map<String, Object> computeAdditionalLocalVariables(final ITemplateContext context, final IProcessableElementTag tag, final  
    // this parameter before any attribute local values before tag parsing is executed is not  
    // will be set.  
    return null;  
}
```

2.4 Variant

```
protected Map<String, Object> computeAdditionalLocalVariables(final AttributeName attributeName, final IStandardExpres  
sion expression, final ITemplateContext context, final IProcessableElementTag tag, final String attributeValue) {  
    // this parameter should always exist since not more than this variable is expected to  
    // will be set.  
    return null;  
}
```

2.5 Comment

TODO.

2.6 Discrepancy

Rouge score before refactoring: 0.7447447447447447
Rouge score after refactoring: 0.7417417417417418
Relative difference: 0.004048582995951325

Put 0.0040 in (complexity=6, SCT=permuteArgumentOrder)

3 Example

3.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: faster implementations are provided instead to implement additional and more sophisticated or intuitive or useful
Synth refactor doc: also use this as alternative or add to a group with other groups for performance in

3.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

3.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are provided instead to implement additional and more sophisticated or intuitive or useful but
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

3.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions judgeExplanation) {
    Validate.notNull(judgeExplanation, "AttributeDefinitions cannot be null");
    // also use this as alternative or add to a group with other groups for performance in
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = judgeExplanation.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

3.5 Comment

TODO.

3.6 Discrepancy

Rouge score before refactoring: 0.3422913719943423
Rouge score after refactoring: 0.24328147100424327
Relative difference: 0.40697674418604657

Put 0.4069 in (complexity=9, SCT=renameTokens)

4 Example

4.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute `in` order to being able to use much
Synth origin doc: faster implementations are provided instead to implement additional and more sophisticated or intuitive or useful
Synth refactor doc: faster APIs and methods and thus use only `for` building elements but rather `for` using `with`

4.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

4.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are provided instead to implement additional and more sophisticated or intuitive or useful but
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

4.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull("AttributeDefinitions cannot be null", attributeDefinitions);
    // faster APIs and methods and thus use only for building elements but rather for using with
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TARGET_ATTR_NAME, TEMPLATE_MODE);
}
```

4.5 Comment

TODO.

4.6 Discrepancy

Rouge score before refactoring: 0.3422913719943423
Rouge score after refactoring: 0.43422913719943423
Relative difference: -0.21172638436482086

Put -0.211 in (complexity=9, SCT=permuteArgumentOrder)

5 Example

5.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: faster implementations are provided instead to implement additional and more sophisticated or intuitive or useful
Synth refactor doc: slower versions use these two versions as opposedto using this class which also defines more

5.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

5.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are provided instead to implement additional and more sophisticated or intuitive or useful but
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

5.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions ascribeExplanation) {
    Validate.notNull(ascribeExplanation, "AttributeDefinitions cannot be null");
    // slower versions use these two versions as opposedto using this class which also defines more
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = ascribeExplanation.forName(TEMPLATE_MODE, TARGET_ATTR_NAME);
}
```

5.5 Comment

TODO.

5.6 Discrepancy

Rouge score before refactoring: 0.3422913719943423
Rouge score after refactoring: 0.14002828854314003
Relative difference: 1.4444444444444444

Put 1.4444 in (complexity=9, SCT=renameTokens)

6 Example

6.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: slower versions are implemented with these additional methods which call additional methods for avoiding duplicate
Synth refactor doc: add some utility code or use these two and three to use generic types to allow

6.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, this.targetAttributeCompleteName);
}
```

6.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // slower versions are implemented with these additional methods which call additional methods for avoiding duplicate values
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(TEMPLATE_MODE, this.targetAttributeCompleteName);
}
```

6.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions anthropomorphiseExplanation) {
    Validate.notNull(anthropomorphiseExplanation, "AttributeDefinitions cannot be null");
    // add some utility code or use these two and three to use generic types to allow
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = anthropomorphiseExplanation.forName(TEMPLATE_MODE, this.targetAttributeCompleteName);
}
```

6.5 Comment

TODO.

6.6 Discrepancy

Rouge score before refactoring: 0.36633663366336633
Rouge score after refactoring: 0.16124469589816123
Relative difference: 1.2719298245614037

Put 1.2719 in (complexity=9, SCT=renameTokens)

7 Example

7.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: faster implementations are required for the generation but cannot override or replace attributes instead of just
Synth refactor doc: helper functions for implementing a subclass and providing a lot to provide for simplicity and for

7.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

7.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are required for the generation but cannot override or replace attributes instead of just
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

7.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions assignSharpness) {
    Validate.notNull(assignSharpness, "AttributeDefinitions cannot be null");
    // helper functions for implementing a subclass and providing a lot to provide for simplicity and for
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = assignSharpness.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

7.5 Comment

TODO.

7.6 Discrepancy

Rouge score before refactoring: 0.4200848656294201
Rouge score after refactoring: 0.05233380480905234
Relative difference: 7.027027027027027

Put 7.0270 in (complexity=11, SCT=renameTokens)

8 Example

8.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: faster implementations are required for the generation but cannot override or replace attributes instead of just
Synth refactor doc: slower implementations or also other slower or equivalent methods are encouraged and can instead invoke only

8.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

8.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are required for the generation but cannot override or replace attributes instead of just
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

8.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // slower implementations or also other slower or equivalent methods are encouraged and can instead invoke only
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName( this.targetAttrCompleteName, getTemplateMode());
}
```

8.5 Comment

TODO.

8.6 Discrepancy

Rouge score before refactoring: 0.4200848656294201
Rouge score after refactoring: 0.3338048090523338
Relative difference: 0.2584745762711866

Put 0.2584 in (complexity=11, SCT=permuteArgumentOrder)

9 Example

9.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: faster implementations are required for the generation but cannot override or replace attributes instead of just
Synth refactor doc: also call addOptions or apply options on it and addTo instead to implement any

9.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

9.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are required for the generation but cannot override or replace attributes instead of just
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

9.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions accreditAccount) {
    Validate.notNull(accreditAccount, "AttributeDefinitions cannot be null");
    // also call addOptions or apply options on it and addTo instead to implement any
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = accreditAccount.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

9.5 Comment

TODO.

9.6 Discrepancy

Rouge score before refactoring: 0.4200848656294201
Rouge score after refactoring: 0.11598302687411598
Relative difference: 2.6219512195121952

Put 2.6219 in (complexity=11, SCT=renameTokens)

10 Example

10.1 Summary

Ground truth doc: We precompute the AttributeDefinition of the target attribute in order to being able to use much
Synth origin doc: faster implementations are required for the generation but cannot override or replace attributes instead of just
Synth refactor doc: helper functions to implement more specific behavior and other general purpose behavior to call in this

10.2 Original

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // We precompute the AttributeDefinition of the target attribute in order to being able to use much
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

10.3 Synthetic

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull(attributeDefinitions, "AttributeDefinitions cannot be null");
    // faster implementations are required for the generation but cannot override or replace attributes instead of just
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

10.4 Variant

```
public void setAttributeDefinitions(final AttributeDefinitions attributeDefinitions) {
    Validate.notNull("AttributeDefinitions cannot be null", attributeDefinitions);
    // helper functions to implement more specific behavior and other general purpose behavior to call in this
    // faster methods for setting/replacing attributes on the ElementAttributes implementation
    this.targetAttributeDefinition = attributeDefinitions.forName(getTemplateMode(), this.targetAttrCompleteName);
}
```

10.5 Comment

TODO.

10.6 Discrepancy

Rouge score before refactoring: 0.4200848656294201
Rouge score after refactoring: 0.1669024045261669
Relative difference: 1.516949152542373

Put 1.5169 in (complexity=11, SCT=permuteArgumentOrder)

11 Example

11.1 Summary

Ground truth doc: char[] are mutable but this is not an issue as this class is package-protected and the code from
Synth origin doc: Note the thread in process the callbacks are for which event listeners and thus that it identifies a
Synth refactor doc: Note the context in that this method or context in other code is ignored since only that method called

11.2 Original

```
public void startEvent(final char[] id, final char[] event) {  
    // char[] are mutable but this is not an issue as this class is package-protected and the code from  
    // which this method is called is under control  
    this.newEvent = true;  
    this.id = id;  
    this.event = event;  
}
```

11.3 Synthetic

```
public void startEvent(final char[] id, final char[] event) {  
    // Note the thread in process the callbacks are for which event listeners and thus that it identifies a  
    // which this method is called is under control  
    this.newEvent = true;  
    this.id = id;  
    this.event = event;  
}
```

11.4 Variant

```
public void startEvent(final char[] id, final char[] byproduct) {  
    // Note the context in that this method or context in other code is ignored since only that method called  
    // which this method is called is under control  
    this.newEvent = true;  
    this.id = id;  
    this.byproduct = byproduct;  
}
```

11.5 Comment

TODO.

11.6 Discrepancy

Rouge score before refactoring: 0.36507936507936506
Rouge score after refactoring: 0.3531746031746032
Relative difference: 0.03370786516853921

Put 0.0337 in (complexity=10, SCT=renameTokens)

12 Example

12.1 Summary

Ground truth doc: No need to control overflow here. The fact that `this` has overflow will be used `as` a flag to determine
Synth origin doc: Note here `is` an exception that may result `when` the implementation checks whether and `if` the operation succeeds to
Synth refactor doc: notifying os that `this object` will flush out `data` without notice and informing that we can detect `when`

12.2 Original

```
@Override
public void flush() throws IOException {
    // No need to control overflow here. The fact that this has overflow will be used as a flag to determine
    // that further write operations are actually needed by means of the isOverflown() method.
    this.os.flush();
}
```

12.3 Synthetic

```
@Override
public void flush() throws IOException {
    // Note here is an exception that may result when the implementation checks whether and if the operation succeeds to
    // that further write operations are actually needed by means of the isOverflown() method.
    this.os.flush();
}
```

12.4 Variant

```
@Override
public void flat-bottom() throws IOException {
    // notifying os that this object will flush out data without notice and informing that we can detect when
    // that further write operations are actually needed by means of the isOverflown() method.
    this.os.flat-bottom();
}
```

12.5 Comment

TODO.

12.6 Discrepancy

Rouge score before refactoring: 0.3645320197044335
Rouge score after refactoring: 0.07758620689655173
Relative difference: 3.6984126984126986

Put 3.6984 in (complexity=9, SCT=renameTokens)

13 Example

13.1 Summary

Ground truth doc: No need to control overflow here. The fact that `this` has overflow will be used `as` a flag to determine
Synth origin doc: Note here `is` an exception that may result `when` the implementation checks whether and `if` the operation succeeds to
Synth refactor doc: Note here `is` an assertion that would tell that `this` writer knows now `as is in` case we detect

13.2 Original

```
@Override
public void flush() throws IOException {
    // No need to control overflow here. The fact that this has overflow will be used as a flag to determine
    // that further write operations are actually needed by means of the isOverflown() method.
    this.os.flush();
}
```

13.3 Synthetic

```
@Override
public void flush() throws IOException {
    // Note here is an exception that may result when the implementation checks whether and if the operation succeeds to
    // that further write operations are actually needed by means of the isOverflown() method.
    this.os.flush();
}
```

13.4 Variant

```
public void flush() throws IOException {
    Override
    // Note here is an assertion that would tell that this writer knows now as is in case we detect
    // that further write operations are actually needed by means of the isOverflown() method.
    this.os.flush();
}
```

13.5 Comment

TODO.

13.6 Discrepancy

Rouge score before refactoring: 0.3645320197044335
Rouge score after refactoring: 0.35467980295566504
Relative difference: 0.02777777777777774

Put 0.0277 in (complexity=9, SCT=swapMultilineNoDeps)

14 Example

14.1 Summary

Ground truth doc: Model inserted BEFORE can never be processable
Synth origin doc: `return` nullableInstanceObjectsList
Synth refactor doc: `return` nullableInstanceBuilderInstanceObject

14.2 Original

```
public void insertBefore(final IModel model) {  
    resetAllButVariablesOrAttributes();  
    Validate.notNull(model, "Model cannot be null");  
    this.insertBeforeModel = true;  
    this.insertBeforeModelValue = model;  
    // Model inserted BEFORE can never be processable  
}
```

14.3 Synthetic

```
public void insertBefore(final IModel model) {  
    resetAllButVariablesOrAttributes();  
    Validate.notNull(model, "Model cannot be null");  
    this.insertBeforeModel = true;  
    this.insertBeforeModelValue = model;  
    // return nullableInstanceObjectsList  
}
```

14.4 Variant

```
public void insertBefore(final IModel display) {  
    resetAllButVariablesOrAttributes();  
    Validate.notNull(display, "Model cannot be null");  
    this.insertBeforeModel = true;  
    this.insertBeforeModelValue = display;  
    // return nullableInstanceBuilderInstanceObject  
}
```

14.5 Comment

TODO.

14.6 Discrepancy

Rouge score before refactoring: 0.049773755656108594
Rouge score after refactoring: 0.042986425339366516
Relative difference: 0.1578947368421052

Put 0.1578 in (complexity=8, SCT=renameTokens)

15 Example

15.1 Summary

Ground truth doc: No need to control overflow here. The fact that `this` has overflow will be used `as` a flag to determine
Synth origin doc: Note here `is` an exception that may result `when` the writer checks whether there exist problems or otherwise to
Synth refactor doc: Note here `is` an exception because there isn't enough logic `in it` and thus no assumption made there

15.2 Original

```
@Override
public void flush() throws IOException {
    // No need to control overflow here. The fact that this has overflow will be used as a flag to determine
    // that further write operations are actually needed by means of the isOverflown() method.
    this.writer.flush();
}
```

15.3 Synthetic

```
@Override
public void flush() throws IOException {
    // Note here is an exception that may result when the writer checks whether there exist problems or otherwise to
    // that further write operations are actually needed by means of the isOverflown() method.
    this.writer.flush();
}
```

15.4 Variant

```
@Override
public void feed() throws IOException {
    // Note here is an exception because there isn't enough logic in it and thus no assumption made there
    // that further write operations are actually needed by means of the isOverflown() method.
    this.writer.feed();
}
```

15.5 Comment

TODO.

15.6 Discrepancy

Rouge score before refactoring: 0.35714285714285715
Rouge score after refactoring: 0.3817733990147783
Relative difference: -0.064516129032258

Put -0.064 in (complexity=9, SCT=renameTokens)

16 Example

16.1 Summary

Ground truth doc: No need to control overflow here. The fact that `this` has overflow will be used `as` a flag to determine
Synth origin doc: Note here `is` an exception that may result `when` the writer checks whether there exist problems or otherwise to
Synth refactor doc: Not a check of `this` implementation to check `for` any errors but also `it` seems useful here `as` to

16.2 Original

```
@Override
public void flush() throws IOException {
    // No need to control overflow here. The fact that this has overflow will be used as a flag to determine
    // that further write operations are actually needed by means of the isOverflown() method.
    this.writer.flush();
}
```

16.3 Synthetic

```
@Override
public void flush() throws IOException {
    // Note here is an exception that may result when the writer checks whether there exist problems or otherwise to
    // that further write operations are actually needed by means of the isOverflown() method.
    this.writer.flush();
}
```

16.4 Variant

```
public void flush() throws IOException {
    @Override
    // Not a check of this implementation to check for any errors but also it seems useful here as to
    // that further write operations are actually needed by means of the isOverflown() method.
    this.writer.flush();
}
```

16.5 Comment

TODO.

16.6 Discrepancy

Rouge score before refactoring: 0.35714285714285715
Rouge score after refactoring: 0.13669950738916256
Relative difference: 1.6126126126126126

Put 1.6126 in (complexity=9, SCT=swapMultilineNoDeps)