

# Software Verification

Static Analysis Report

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# 01 CheckStyle



# ( Fecs-CabinsController )

## fecs - File CabinsController.java

### Summary

Total	High Priority	Normal Priority	Low Priority
34	34	0	0

### Details

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	3	
<a href="#">FinalParametersCheck</a>	3	
<a href="#">HideUtilityClassConstructorCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	1	
<a href="#">JavadocPackageCheck</a>	1	
<a href="#">LineLengthCheck</a>	17	
<a href="#">LocalVariableNameCheck</a>	2	
<a href="#">NeedBracesCheck</a>	2	
<a href="#">UnusedImportsCheck</a>	1	
<a href="#">WhitespaceAroundCheck</a>	3	
<b>Total</b>	<b>34</b>	

\* File, Type을 기준으로 나누되 Type 결과가 없는 것은 Warning으로 표시하였음

# ( Fecs-Circumstance )

## fecs - File Circumstance.java

### Summary

Total	High Priority	Normal Priority	Low Priority
45	45	0	0

### Details

Categories	<b>Types</b>	Warnings	Details
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Type	Total	Distribution
<a href="#">ConstantNameCheck</a>	1	
<a href="#">DesignForExtensionCheck</a>	3	
<a href="#">FinalParametersCheck</a>	5	
<a href="#">HiddenFieldCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	10	
<a href="#">JavadocTypeCheck</a>	5	
<a href="#">JavadocVariableCheck</a>	5	
<a href="#">LineLengthCheck</a>	2	
<a href="#">NeedBracesCheck</a>	1	
<a href="#">VisibilityModifierCheck</a>	2	
<a href="#">WhitespaceAfterCheck</a>	4	
<a href="#">WhitespaceAroundCheck</a>	6	
<b>Total</b>	<b>45</b>	

# Fecs-Fecs









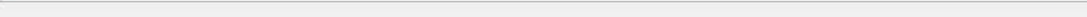
## fecs - File Fecs.java

### Summary

Total	High Priority	Normal Priority	Low Priority
24	24	0	0

### Details

Categories **Types** Warnings Details

Type	Total	Distribution
<a href="#">DesignForExtensionCheck</a>	1	
<a href="#">FinalParametersCheck</a>	2	
<a href="#">JavadocMethodCheck</a>	4	
<a href="#">JavadocVariableCheck</a>	5	
<a href="#">LineLengthCheck</a>	1	
<a href="#">NewlineAtEndOfFileCheck</a>	1	
<a href="#">VisibilityModifierCheck</a>	1	
<a href="#">WhitespaceAfterCheck</a>	2	
<a href="#">WhitespaceAroundCheck</a>	7	
<b>Total</b>	<b>24</b>	

# ( Fecs-FloorSet )

## Checkstyle Warnings - File FloorSet.java

### Summary

Total	High Priority	Normal Priority	Low Priority
4	4	0	0

### Details

File	Line	Priority	Type	Category
<a href="#">FloorSet.java:20</a>	20	High	LineLengthCheck	Sizes
<a href="#">FloorSet.java:43</a>	43	High	LineLengthCheck	Sizes
<a href="#">FloorSet.java:59</a>	59	High	LineLengthCheck	Sizes
<a href="#">FloorSet.java:68</a>	68	High	LineLengthCheck	Sizes







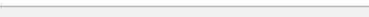
# ( Fecs.event-ElevatorCall )

## Checkstyle Warnings - File ElevatorCall.java

### Summary

Total	High Priority	Normal Priority	Low Priority
11	<a href="#">11</a>	0	0

### Details

Type	Total	Distribution
<a href="#">DesignForExtensionCheck</a>	2	
<a href="#">FinalParametersCheck</a>	2	
<a href="#">HiddenFieldCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	3	
<a href="#">JavadocPackageCheck</a>	1	
<a href="#">JavadocVariableCheck</a>	1	
<a href="#">WhitespaceAfterCheck</a>	1	
<b>Total</b>	<b>11</b>	

# ( Fecs.interfaces-ICircumstance )

## Checkstyle Warnings - File ICircumstance.java

### Summary

Total	High Priority	Normal Priority	Low Priority
28	<a href="#">28</a>	0	0

### Details

Type	Total	Distribution
<a href="#">ConstantNameCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	2	
<a href="#">JavadocPackageCheck</a>	1	
<a href="#">JavadocVariableCheck</a>	7	
<a href="#">LineLengthCheck</a>	3	
<a href="#">RedundantModifierCheck</a>	9	
<a href="#">WhitespaceAfterCheck</a>	5	
<b>Total</b>	<b>28</b>	



# { Fecs.interfaces-IPassengerMaker }

## Checkstyle Warnings - File IPassengerMaker.java

### Summary

Total	High Priority	Normal Priority	Low Priority
7	7	0	0

### Details

File	Line	Priority	Type	Category
<a href="#">IPassengerMaker.java:8</a>	8	High	JavadocMethodCheck	Javadoc
<a href="#">IPassengerMaker.java:10</a>	10	High	JavadocMethodCheck	Javadoc
<a href="#">IPassengerMaker.java:12</a>	12	High	JavadocMethodCheck	Javadoc
<a href="#">IPassengerMaker.java:14</a>	14	High	JavadocMethodCheck	Javadoc
<a href="#">IPassengerMaker.java:16</a>	16	High	JavadocMethodCheck	Javadoc
<a href="#">IPassengerMaker.java:18</a>	18	High	JavadocMethodCheck	Javadoc
<a href="#">IPassengerMaker.java:20</a>	20	High	JavadocMethodCheck	Javadoc

# ( Fecs.model-CabinType )

## Checkstyle Warnings - File CabinType.java

### Summary

Total	High Priority	Normal Priority	Low Priority
3	3	0	0

### Details

Type	Total	Distribution
<a href="#">JavadocPackageCheck</a>	1	
<a href="#">JavadocVariableCheck</a>	2	
<b>Total</b>	<b>3</b>	

# ( Fecs.model-FloorType )







## Checkstyle Warnings - File FloorType.java

### Summary

Total	High Priority	Normal Priority	Low Priority
27	27	0	0

### Details

Categories **Types** Warnings Details

Type	Total	Distribution
<a href="#">FinalParametersCheck</a>	2	
<a href="#">HiddenFieldCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	3	
<a href="#">JavadocVariableCheck</a>	12	
<a href="#">LineLengthCheck</a>	1	
<a href="#">MagicNumberCheck</a>	8	
<b>Total</b>	<b>27</b>	

# ( Fecs.simulation-Cabin )

## Checkstyle Warnings - File Cabin.java

### Summary

Total	High Priority	Normal Priority	Low Priority
69	<a href="#">69</a>	0	0

### Details

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	1	
<a href="#">AvoidStarImportCheck</a>	1	
<a href="#">DesignForExtensionCheck</a>	15	
<a href="#">FinalParametersCheck</a>	5	
<a href="#">HiddenFieldCheck</a>	3	
<a href="#">JavadocMethodCheck</a>	15	
<a href="#">JavadocPackageCheck</a>	1	
<a href="#">JavadocTypeCheck</a>	1	
<a href="#">JavadocVariableCheck</a>	8	
<a href="#">LineLengthCheck</a>	4	
<a href="#">NeedBracesCheck</a>	1	
<a href="#">UnusedImportsCheck</a>	2	
<a href="#">WhitespaceAroundCheck</a>	12	
<b>Total</b>	<b>69</b>	

















# ( Fecs.simulation-Engine )

## Checkstyle Warnings - File Engine.java

### Summary

Total	High Priority	Normal Priority	Low Priority
341	<a href="#">341</a>	0	0

### Details

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	3	
<a href="#">AvoidStarImportCheck</a>	3	
<a href="#">ConstantNameCheck</a>	3	
<a href="#">DesignForExtensionCheck</a>	32	
<a href="#">FinalParametersCheck</a>	19	
<a href="#">HiddenFieldCheck</a>	11	
<a href="#">JavadocMethodCheck</a>	33	
<a href="#">JavadocVariableCheck</a>	24	
<a href="#">LineLengthCheck</a>	19	
<a href="#">MagicNumberCheck</a>	20	
<a href="#">MissingSwitchDefaultCheck</a>	1	
<a href="#">ModifierOrderCheck</a>	3	
<a href="#">NeedBracesCheck</a>	7	
<a href="#">NoWhitespaceBeforeCheck</a>	1	
<a href="#">WhitespaceAfterCheck</a>	27	
<a href="#">WhitespaceAroundCheck</a>	135	
<b>Total</b>	<b>341</b>	

# ( Fecs.simulation-Floor )










## Checkstyle Warnings - File Floor.java

### Summary

Total	High Priority	Normal Priority	Low Priority
22	<a href="#">22</a>	0	0

### Details

Categories **Types** Warnings Details

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	1	
<a href="#">DesignForExtensionCheck</a>	3	
<a href="#">FinalParametersCheck</a>	4	
<a href="#">HiddenFieldCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	4	
<a href="#">JavadocVariableCheck</a>	3	
<a href="#">LineLengthCheck</a>	1	
<a href="#">WhitespaceAfterCheck</a>	1	
<a href="#">WhitespaceAroundCheck</a>	4	
<b>Total</b>	<b>22</b>	

# ( Fecs.simulation-Passenger )

## Checkstyle Warnings - File Passenger.java

### Summary

Total	High Priority	Normal Priority	Low Priority
42	<a href="#">42</a>	0	0

### Details

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	2	
<a href="#">DesignForExtensionCheck</a>	7	
<a href="#">EqualsHashCodeCheck</a>	1	
<a href="#">FinalParametersCheck</a>	6	
<a href="#">HiddenFieldCheck</a>	5	
<a href="#">JavadocMethodCheck</a>	7	
<a href="#">JavadocTypeCheck</a>	1	
<a href="#">JavadocVariableCheck</a>	6	
<a href="#">LineLengthCheck</a>	2	
<a href="#">NeedBracesCheck</a>	5	
<b>Total</b>	<b>42</b>	








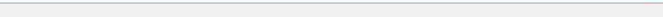
# { Fecs.simulation-PassengerMaker }

## Checkstyle Warnings - File PassengerMaker.java

### Summary

Total	High Priority	Normal Priority	Low Priority
38	<a href="#">38</a>	0	0

### Details

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	1	
<a href="#">DesignForExtensionCheck</a>	8	
<a href="#">FinalParametersCheck</a>	3	
<a href="#">HiddenFieldCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	8	
<a href="#">JavadocVariableCheck</a>	4	
<a href="#">MagicNumberCheck</a>	1	
<a href="#">WhitespaceAroundCheck</a>	12	
<b>Total</b>	<b>38</b>	



# ( Fecs.simulation-Place )

## Checkstyle Warnings - File Place.java

### Summary

Total	High Priority	Normal Priority	Low Priority
28	<a href="#">28</a>	0	0

### Details

Type	Total	Distribution
<a href="#">DesignForExtensionCheck</a>	6	
<a href="#">FinalParametersCheck</a>	2	
<a href="#">HiddenFieldCheck</a>	2	
<a href="#">JavadocMethodCheck</a>	6	
<a href="#">JavadocVariableCheck</a>	3	
<a href="#">LineLengthCheck</a>	1	
<a href="#">VisibilityModifierCheck</a>	3	
<a href="#">WhitespaceAfterCheck</a>	1	
<a href="#">WhitespaceAroundCheck</a>	4	
<b>Total</b>	<b>28</b>	

# Fecs.ui-Controller

## Checkstyle Warnings - File Controller.java

### Summary

Total	High Priority	Normal Priority	Low Priority
84	84	0	0

### Details

Categories	<b>Types</b>	Warnings	Details
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Type	Total	Distribution
<a href="#">AvoidStarImportCheck</a>	1	
<a href="#">DesignForExtensionCheck</a>	15	
<a href="#">FinalParametersCheck</a>	12	
<a href="#">JavadocMethodCheck</a>	15	
<a href="#">JavadocPackageCheck</a>	1	
<a href="#">JavadocVariableCheck</a>	3	
<a href="#">LineLengthCheck</a>	10	
<a href="#">MagicNumberCheck</a>	5	
<a href="#">NeedBracesCheck</a>	7	
<a href="#">RightCurlyCheck</a>	1	
<a href="#">WhitespaceAfterCheck</a>	2	
<a href="#">WhitespaceAroundCheck</a>	12	
<b>Total</b>	<b>84</b>	

# ( Fecs.ui-Renderer )

## Checkstyle Warnings - File Renderer.java

### Summary

Total	High Priority	Normal Priority	Low Priority
11	<u>11</u>	0	0

### Details

Categories	<b>Types</b>	Warnings	Details
------------	--------------	----------	---------

Type	Total	Distribution
<a href="#">AvoidStarImportCheck</a>	1	
<a href="#">DesignForExtensionCheck</a>	2	
<a href="#">FinalParametersCheck</a>	1	
<a href="#">HiddenFieldCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	3	
<a href="#">JavadocVariableCheck</a>	2	
<a href="#">LineLengthCheck</a>	1	
<b>Total</b>	<b>11</b>	

# ( Overall results - Categories )

## CheckStyle Result

### Warnings Trend

All Warnings	New Warnings	Fixed Warnings
975	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
975	<a href="#">975</a>	0	0

### Details

Packages Files **Categories** Types Warnings Details

Category	Total	Distribution
<a href="#">Blocks</a>	24	
<a href="#">Checks</a>	86	
<a href="#">Coding</a>	104	
<a href="#">Design</a>	117	
<a href="#">Imports</a>	11	
<a href="#">Javadoc</a>	265	
<a href="#">Modifier</a>	12	
<a href="#">Naming</a>	9	
<a href="#">Sizes</a>	107	
<a href="#">Whitespace</a>	240	
<b>Total</b>	<b>975</b>	

# ( Overall results - Files )

## CheckStyle Result

### Warnings Trend

All Warnings	New Warnings	Fixed Warnings
975	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
975	<a href="#">975</a>	0	0

### Details

[Packages](#)
[Files](#)
[Categories](#)
[Types](#)
[Warnings](#)
[Details](#)

File	Total	Distribution
<a href="#">Cabin.java</a>	69	
<a href="#">CabinType.java</a>	3	
<a href="#">CabinsController.java</a>	34	
<a href="#">Circumstance.java</a>	45	
<a href="#">Controller.java</a>	84	
<a href="#">ElevatorCall.java</a>	11	
<a href="#">Engine.java</a>	341	
<a href="#">Fecs.java</a>	24	
<a href="#">Floor.java</a>	22	
<a href="#">FloorSet.java</a>	4	
<a href="#">FloorType.java</a>	27	
<a href="#">ICircumstance.java</a>	28	
<a href="#">IPassengerMaker.java</a>	7	
<a href="#">Passenger.java</a>	42	
<a href="#">PassengerMaker.java</a>	38	
<a href="#">Place.java</a>	28	
<a href="#">Renderer.java</a>	11	
<a href="#">UserInterface.java</a>	149	
<a href="#">Vector.java</a>	8	
<b>Total</b>	<b>975</b>	

# ( Overall results - Types )

## CheckStyle Result

### Warnings Trend

All Warnings	New Warnings	Fixed Warnings
975	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
975	<a href="#">975</a>	0	0

### Details

[Packages](#)
[Files](#)
[Categories](#)
[Types](#)
[Warnings](#)
[Details](#)

Type	Total	Distribution
<a href="#">AvoidInlineConditionalsCheck</a>	11	
<a href="#">AvoidStarImportCheck</a>	8	
<a href="#">ConstantNameCheck</a>	5	
<a href="#">DesignForExtensionCheck</a>	110	
<a href="#">EqualsHashCodeCheck</a>	1	
<a href="#">FinalParametersCheck</a>	84	
<a href="#">HiddenFieldCheck</a>	28	
<a href="#">HideUtilityClassConstructorCheck</a>	1	
<a href="#">JavadocMethodCheck</a>	141	
<a href="#">JavadocPackageCheck</a>	6	
<a href="#">JavadocStyleCheck</a>	1	
<a href="#">JavadocTypeCheck</a>	7	
<a href="#">JavadocVariableCheck</a>	110	
<a href="#">LineLengthCheck</a>	107	
<a href="#">LocalVariableNameCheck</a>	2	
<a href="#">MagicNumberCheck</a>	63	
<a href="#">MethodNameCheck</a>	2	
<a href="#">MissingSwitchDefaultCheck</a>	1	
<a href="#">ModifierOrderCheck</a>	3	
<a href="#">NeedBracesCheck</a>	23	
<a href="#">NewlineAtEndOfFileCheck</a>	2	
<a href="#">NoWhitespaceBeforeCheck</a>	1	
<a href="#">RedundantModifierCheck</a>	9	
<a href="#">RightCurlyCheck</a>	1	
<a href="#">UnusedImportsCheck</a>	3	
<a href="#">VisibilityModifierCheck</a>	6	
<a href="#">WhitespaceAfterCheck</a>	43	
<a href="#">WhitespaceAroundCheck</a>	196	
<b>Total</b>	<b>975</b>	



## 02 PMD



# ( Overall results - Files )

## PMD Result

### Warnings Trend

All Warnings	New Warnings	Fixed Warnings
41	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
41	0	<u>41</u>	0

### Details

Packages **Files** Categories Types Warnings Details

File	Total	Distribution
<a href="#">Cabin.java</a>	2	
<a href="#">CabinsController.java</a>	1	
<a href="#">Circumstance.java</a>	1	
<a href="#">Controller.java</a>	1	
<a href="#">Engine.java</a>	24	
<a href="#">Floor.java</a>	2	
<a href="#">ICircumstance.java</a>	9	
<a href="#">PassengerMaker.java</a>	1	
<b>Total</b>	<b>41</b>	



# ( Overall results - Types )

## PMD Result

### Warnings Trend

All Warnings	New Warnings	Fixed Warnings
41	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
41	0	<a href="#">41</a>	0

### Details

Type	Total	Distribution
<a href="#">UnusedImports</a>	3	
<a href="#">UnusedLocalVariable</a>	1	
<a href="#">UnusedModifier</a>	9	
<a href="#">UnusedPrivateField</a>	7	
<a href="#">UselessParentheses</a>	21	
<b>Total</b>	<b>41</b>	

# ( Overall results - Warning )

File	Package	Line	Priority	Type	Category
<a href="#">CabinsController.java:5</a>	<a href="#">fecs</a>	5	Normal	UnusedImports	Import Statements
<a href="#">Circumstance.java:27</a>	<a href="#">fecs</a>	27	Normal	UnusedPrivateField	Unused Code
<a href="#">ICircumstance.java:9</a>	<a href="#">fecs.interfaces</a>	9	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:10</a>	<a href="#">fecs.interfaces</a>	10	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:11</a>	<a href="#">fecs.interfaces</a>	11	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:12</a>	<a href="#">fecs.interfaces</a>	12	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:13</a>	<a href="#">fecs.interfaces</a>	13	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:15</a>	<a href="#">fecs.interfaces</a>	15	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:17</a>	<a href="#">fecs.interfaces</a>	17	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:19</a>	<a href="#">fecs.interfaces</a>	19	Normal	UnusedModifier	Unused Code
<a href="#">ICircumstance.java:20</a>	<a href="#">fecs.interfaces</a>	20	Normal	UnusedModifier	Unused Code
<a href="#">Cabin.java:3</a>	<a href="#">fecs.simulator</a>	3	Normal	UnusedImports	Import Statements
<a href="#">Cabin.java:4</a>	<a href="#">fecs.simulator</a>	4	Normal	UnusedImports	Import Statements
<a href="#">Engine.java:30</a>	<a href="#">fecs.simulator</a>	30	Normal	UnusedPrivateField	Unused Code
<a href="#">Engine.java:31</a>	<a href="#">fecs.simulator</a>	31	Normal	UnusedPrivateField	Unused Code
<a href="#">Engine.java:33</a>	<a href="#">fecs.simulator</a>	33	Normal	UnusedPrivateField	Unused Code
<a href="#">Engine.java:39</a>	<a href="#">fecs.simulator</a>	39	Normal	UnusedPrivateField	Unused Code
<a href="#">Engine.java:59</a>	<a href="#">fecs.simulator</a>	59	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:136</a>	<a href="#">fecs.simulator</a>	136	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:136</a>	<a href="#">fecs.simulator</a>	136	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:138</a>	<a href="#">fecs.simulator</a>	138	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:138</a>	<a href="#">fecs.simulator</a>	138	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:138</a>	<a href="#">fecs.simulator</a>	138	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:140</a>	<a href="#">fecs.simulator</a>	140	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:142</a>	<a href="#">fecs.simulator</a>	142	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:142</a>	<a href="#">fecs.simulator</a>	142	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:154</a>	<a href="#">fecs.simulator</a>	154	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:154</a>	<a href="#">fecs.simulator</a>	154	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:155</a>	<a href="#">fecs.simulator</a>	155	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:157</a>	<a href="#">fecs.simulator</a>	157	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:160</a>	<a href="#">fecs.simulator</a>	160	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:199</a>	<a href="#">fecs.simulator</a>	199	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:203</a>	<a href="#">fecs.simulator</a>	203	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:204</a>	<a href="#">fecs.simulator</a>	204	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:205</a>	<a href="#">fecs.simulator</a>	205	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:253</a>	<a href="#">fecs.simulator</a>	253	Normal	UselessParentheses	Unnecessary
<a href="#">Engine.java:253</a>	<a href="#">fecs.simulator</a>	253	Normal	UselessParentheses	Unnecessary
<a href="#">Floor.java:15</a>	<a href="#">fecs.simulator</a>	15	Normal	UnusedPrivateField	Unused Code
<a href="#">Floor.java:22</a>	<a href="#">fecs.simulator</a>	22	Normal	UnusedLocalVariable	Unused Code
<a href="#">PassengerMaker.java:21</a>	<a href="#">fecs.simulator</a>	21	Normal	UnusedPrivateField	Unused Code
<a href="#">Controller.java:68</a>	<a href="#">fecs.ui</a>	68	Normal	UselessParentheses	Unnecessary

# Cyclomatic reports

Location	Class or method	
src/main/java/fecs/CabinsController.java:10:	CabinsController	The class 'CabinsController' has a Cyclomatic Complexity of 11 (Highest = 10).
src/main/java/fecs/CabinsController.java:12:	CabinsController-control	The method 'control' has a Cyclomatic Complexity of 10.
src/main/java/fecs/model/FloorType.java:6:	FloorType	The class 'FloorType' has a Cyclomatic Complexity of 5(Highest = 12).
src/main/java/fecs/model/FloorType.java:19:	FloorType-valueOf	The method 'valueOf' has a Cyclomatic Complexity of 12.
src/main/java/fecs/simulator/Engine.java:25:	Engine	The class 'Engine' has a Cyclomatic Complexity of 2 (Highest = 13).
src/main/java/fecs/simulator/Engine.java:183:	Engine-updateCabin	The method 'updateCabin' has a Cyclomatic Complexity of 13.
src/main/java/fecs/ui/Controller.java:21:	Controller	The class 'Controller' has a Cyclomatic Complexity of 4 (Highest = 13).
src/main/java/fecs/ui/Controller.java:54:	Controller-triggerFail	The method 'triggerFail' has a Cyclomatic Complexity of 13.
src/main/java/fecs/ui/UserInterface.java:19:	UserInterface	The class 'UserInterface' has a Cyclomatic Complexity of 2 (Highest = 20).
src/main/java/fecs/ui/UserInterface.java:63:	UserInterface-init	The method 'init' has a Cyclomatic Complexity of 20.

Number	Level of complexity
1~5	Low complexity
6~8	Moderate complexity
9~10	High complexity
11+	Very high complexity



## 03 FindBugs



# ( Overall results - Files )

## FindBugs Result









### Warnings Trend

All Warnings	New this build	Fixed Warnings
13	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
13	4	9	0

### Details

File	Total	Distribution
<a href="#">Circumstance.java</a>	3	
<a href="#">Controller.java</a>	1	
<a href="#">Engine.java</a>	3	
<a href="#">Fecs.java</a>	1	
<a href="#">Floor.java</a>	1	
<a href="#">ICircumstance.java</a>	1	
<a href="#">Passenger.java</a>	1	
<a href="#">PassengerMaker.java</a>	2	
<b>Total</b>	<b>13</b>	

# ( Overall results - Types )

## FindBugs Result

### Warnings Trend

All Warnings	New this build	Fixed Warnings
13	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
13	4	9	0

### Details

Packages Files Categories **Types** Warnings Details High Normal

Type	Total	Distribution
<a href="#">DLS DEAD LOCAL STORE</a>	1	
<a href="#">DM NEXTINT VIA NEXTDOUBLE</a>	1	
<a href="#">DM NUMBER CTOR</a>	1	
<a href="#">FE FLOATING POINT EQUALITY</a>	1	
<a href="#">HE EQUALS_USE HASHCODE</a>	1	
<a href="#">HE USE_OF UNHASHABLE_CLASS</a>	1	
<a href="#">ICAST IDIV CAST TO DOUBLE</a>	1	
<a href="#">MS MUTABLE ARRAY</a>	1	
<a href="#">MS SHOULD BE FINAL</a>	1	
<a href="#">URF UNREAD_FIELD</a>	1	
<a href="#">URF UNREAD_PUBLIC_OR_PROTECTED_FIELD</a>	1	
<a href="#">UUF UNUSED_FIELD</a>	1	
<a href="#">UUF UNUSED_PUBLIC_OR_PROTECTED_FIELD</a>	1	
<b>Total</b>	<b>13</b>	

# ( Overall results - Warnings )

## FindBugs Result

### Warnings Trend

All Warnings	New this build	Fixed Warnings
13	0	0

### Summary

Total	High Priority	Normal Priority	Low Priority
13	4	9	0

### Details

Packages	Files	Categories	Types	<b>Warnings</b>	Details	High	Normal
----------	-------	------------	-------	-----------------	---------	------	--------

File	Package	Line	Priority	Rank	Type	Category
<a href="#">Circumstance.java:-1</a>	<a href="#">fecs</a>	-	Normal	18	UUF_UNUSED_FIELD	PERFORMANCE
<a href="#">Circumstance.java:-1</a>	<a href="#">fecs</a>	-	Normal	17	UUF_UNUSED_PUBLIC_OR_PROTECTED_FIELD	STYLE
<a href="#">Circumstance.java:31</a>	<a href="#">fecs</a>	31	Normal	18	URF_UNREAD_PUBLIC_OR_PROTECTED_FIELD	STYLE
<a href="#">Fecs.java:50</a>	<a href="#">fecs</a>	50	High	16	MS_SHOULD_BE_FINAL	MALICIOUS_CODE
<a href="#">ICircumstance.java:15</a>	<a href="#">fecs.interfaces</a>	15	High	16	MS_MUTABLE_ARRAY	MALICIOUS_CODE
<a href="#">Engine.java:126</a>	<a href="#">fecs.simulator</a>	126	Normal	18	DM_NUMBER_CTOR	PERFORMANCE
<a href="#">Engine.java:138</a>	<a href="#">fecs.simulator</a>	138	Normal	17	ICAST_IDIV_CAST_TO_DOUBLE	STYLE
<a href="#">Engine.java:203</a>	<a href="#">fecs.simulator</a>	203	High	15	FE_FLOATING_POINT_EQUALITY	STYLE
<a href="#">Floor.java:22</a>	<a href="#">fecs.simulator</a>	22	Normal	17	DLS_DEAD_LOCAL_STORE	STYLE
<a href="#">Passenger.java:49</a>	<a href="#">fecs.simulator</a>	49	High	14	HE_EQUALS_USE_HASHCODE	BAD_PRACTICE
<a href="#">PassengerMaker.java:21</a>	<a href="#">fecs.simulator</a>	21	Normal	18	URF_UNREAD_FIELD	PERFORMANCE
<a href="#">PassengerMaker.java:60</a>	<a href="#">fecs.simulator</a>	60	Normal	3	HE_USE_OF_UNHASHABLE_CLASS	CORRECTNESS
<a href="#">Controller.java:63</a>	<a href="#">fecs.ui</a>	63	Normal	18	DM_NEXTINT_VIA_NEXTDOUBLE	PERFORMANCE

---

## 04 SONARQube





# Overall results

Version 0.2.0 - 2014/05/29 18:29:03 Time changes...

Lines of code  
**1,302**  
1,930 lines  
617 statements  
19 files

Classes  
**25**  
6 packages  
86 methods  
60 accessors

Documentation  
**22.5%** docu. API  
89 public API  
69 undocu. API

Comments  
**17.0%**  
267 lines

Duplications  
**0.0%**  
0 lines  
0 blocks  
0 files

Complexity  
**2.8** /method  
**9.8** /class  
**12.9** /file  
Total: 245



Coverage  
**36.0%**

Package	Coverage
fecs_event	0.0%
fecs_interfaces	0.0%
fecs	2.4%
fecs_simulator	23.4%
fecs_ui	50.2%
fecs_model	79.5%

Issues  
**241**  
Rules compliance  
**61.1%**

Issue Type	Count
Blocker	0
Critical	1
Major	137
Minor	91
Info	12

Package tangle index  
**48.3%**  
> 8 cycles

Dependencies to cut  
4 between packages  
7 between files

Unit Tests Coverage  
**36.0%**  
39.1% line coverage  
23.6% branch coverage

Unit test success  
**100.0%**  
0 failures  
0 errors  
21 tests  
6.7 sec

Comments (%)  
**17.0%**

Package	Comments (%)
fecs_ui	2.2%
fecs_model	7.0%
fecs_event	15.0%
fecs_simulator	15.6%
fecs_interfaces	28.1%
fecs	51.4%

Lines of code  
**1,302**

Package	Lines of code
fecs_ui	589
fecs_simulator	493
fecs	140
fecs_model	40
fecs_interfaces	23
fecs_event	17

Complexity /file  
**12.9**

Package	Complexity /file
fecs_ui	32.7
fecs_simulator	15.0
fecs_model	9.0
fecs	7.0
fecs_event	2.0
fecs_interfaces	0.0

Issues

Package	Issues
fecs_simulator	108
fecs_ui	53
fecs	40
fecs_interfaces	25
fecs_model	9
fecs_event	6

# Fecs

fecs

## fecs.Circumstance

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	79	Statements:	20	Comments (%):	2.9%	Public documented API (%):	16.7%	Classes:	6
Lines of code:	67	Complexity:	12	Comment lines:	2	Public undocumented API:	5	Number of Children:	5
Methods:	10	Complexity /method:	1.2			Public API:	6	Depth in Tree:	1
Accessors:	0							Response for Class:	17

fecs

## fecs.Fecs

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	68	Statements:	17	Comments (%):	5.5%	Public documented API (%):	33.3%	Classes:	1
Lines of code:	52	Complexity:	4	Comment lines:	3	Public undocumented API:	2	Number of Children:	0
Methods:	4	Complexity /method:	1.0			Public API:	3	Depth in Tree:	1
Accessors:	1							Response for Class:	18

fecs

## fecs.CabinsController

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	98	Statements:	11	Comments (%):	76.7%	Public documented API (%):	50.0%	Classes:	1
Lines of code:	21	Complexity:	12	Comment lines:	69	Public undocumented API:	1	Number of Children:	0
Methods:	1	Complexity /method:	12.0			Public API:	2	Depth in Tree:	1
Accessors:	0							Response for Class:	9

### Comments (%)

<a href="#">Circumstance</a>	2.9%
<a href="#">Fecs</a>	5.5%
<a href="#">CabinsController</a>	76.7%

### Lines of code

<a href="#">Circumstance</a>	67
<a href="#">Fecs</a>	52
<a href="#">CabinsController</a>	21
<a href="#">FloorSet</a>	0

### Complexity /file

<a href="#">CabinsController</a>	12.0
<a href="#">Circumstance</a>	12.0
<a href="#">Fecs</a>	4.0
<a href="#">FloorSet</a>	0.0

### Issues

<a href="#">FloorSet</a>	16
<a href="#">CabinsController</a>	12
<a href="#">Circumstance</a>	7
<a href="#">Fecs</a>	5

### Coverage

<a href="#">Circumstance</a>	0.0%
<a href="#">CabinsController</a>	0.0%
<a href="#">Fecs</a>	9.1%

# Fecs.ui

fecs

## fecs.ui.Controller

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	297	Statements:	141	Comments (%):	1.3%	Public documented API (%):	6.3%	Classes:	1
Lines of code:	235	Complexity:	69	Comment lines:	3	Public undocumented API:	15	Number of Children:	0
Methods:	15	Complexity /method:	4.6			Public API:	16	Depth in Tree:	1
Accessors:	0							Response for Class:	46

fecs

## fecs.ui.UserInterface

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	385	Statements:	187	Comments (%):	2.6%	Public documented API (%):	33.3%	Classes:	1
Lines of code:	336	Complexity:	26	Comment lines:	9	Public undocumented API:	4	Number of Children:	0
Methods:	7	Complexity /method:	3.7			Public API:	6	Depth in Tree:	6
Accessors:	12							Response for Class:	51

fecs

## fecs.ui.Renderer

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	30	Statements:	5	Comments (%):	5.3%	Public documented API (%):	25.0%	Classes:	1
Lines of code:	18	Complexity:	3	Comment lines:	1	Public undocumented API:	3	Number of Children:	0
Methods:	3	Complexity /method:	1.0			Public API:	4	Depth in Tree:	1
Accessors:	0							Response for Class:	10

### Comments (%)

<a href="#">Controller</a>	1.3%
<a href="#">UserInterface</a>	2.6%
<a href="#">Renderer</a>	5.3%

### Lines of code

<a href="#">UserInterface</a>	336
<a href="#">Controller</a>	235
<a href="#">Renderer</a>	18

### Issues

<a href="#">UserInterface</a>	33
<a href="#">Controller</a>	20

### Complexity /file

<a href="#">Controller</a>	69.0
<a href="#">UserInterface</a>	26.0
<a href="#">Renderer</a>	3.0

### Coverage

<a href="#">Renderer</a>	0.0%
<a href="#">Controller</a>	50.5%
<a href="#">UserInterface</a>	51.9%

# Fecs.model

fecs

[fecs.model.FloorType](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines: 36	Statements: 15	Comments (%): 3.6%	Public documented API (%): 50.0%	Classes: 1
Lines of code: 27	Complexity: 25	Comment lines: 1	Public undocumented API: 1	Number of Children: 0
Methods: 2	Complexity /method: 12.5		Public API: 2	Depth in Tree: 2
Accessors: 1				Response for Class: 12

fecs

[fecs.model.Vector](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines: 16	Statements: 2	Comments (%): 10.0%	Public documented API (%): 50.0%	Classes: 1
Lines of code: 9	Complexity: 2	Comment lines: 1	Public undocumented API: 1	Number of Children: 0
Methods: 2	Complexity /method: 1.0		Public API: 2	Depth in Tree: 2
Accessors: 0				Response for Class: 6

fecs

[fecs.model.CabinType](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines: 9	Statements: 0	Comments (%): 20.0%	Public API: 1	Classes: 1
Lines of code: 4	Complexity: 0	Comment lines: 1		Number of Children: 0
Methods: 0				Depth in Tree: 2
Accessors: 0				Response for Class: 6

## Comments (%)

<a href="#">FloorType</a>	3.6%
<a href="#">Vector</a>	10.0%
<a href="#">CabinType</a>	20.0%

## Lines of code

<a href="#">FloorType</a>	27
<a href="#">Vector</a>	9
<a href="#">CabinType</a>	4

## Issues

<a href="#">FloorType</a>	9
---------------------------	---

## Complexity /file

<a href="#">FloorType</a>	25.0
<a href="#">Vector</a>	2.0
<a href="#">CabinType</a>	0.0

## Coverage

<a href="#">Vector</a>	0.0%
<a href="#">FloorType</a>	93.5%

# Fecs.event

fecs

[fecs.event.ElevatorCall](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines: 33	Statements: 4	Comments (%): 15.0%	Public documented API (%): 66.7%	Classes: 1
Lines of code: 17	Complexity: 2	Comment lines: 3	Public undocumented API: 1	Number of Children: 0
Methods: 2	Complexity /method: 1.0		Public API: 3	Depth in Tree: 3
Accessors: 1				Response for Class: 2

## Comments (%)

[ElevatorCall](#) 15.0%

## Lines of code

[ElevatorCall](#) 17

## Complexity /file

[ElevatorCall](#) 2.0

## Issues

[ElevatorCall](#) 6

## Coverage

[ElevatorCall](#) 0.0%

# Fecs.simulator

fecs

[fecs.simulator.PassengerMaker](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	84	Statements:	23	Comments (%):	3.3%	Public documented API (%):	33.3%	Classes:	1
Lines of code:	58	Complexity:	8	Comment lines:	2	Public undocumented API:	2	Number of Children:	0
Methods:	2	Complexity /method:	4.0			Public API:	3	Depth in Tree:	1
Accessors:	6							Response for Class:	23

fecs

[fecs.simulator.Place](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	41	Statements:	8	Comments (%):	3.3%	Public documented API (%):	14.3%	Classes:	1
Lines of code:	29	Complexity:	6	Comment lines:	1	Public undocumented API:	6	Number of Children:	2
Methods:	6	Complexity /method:	1.0			Public API:	7	Depth in Tree:	1
Accessors:	0							Response for Class:	9

fecs

[fecs.simulator.Engine](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	380	Statements:	137	Comments (%):	14.7%	Public documented API (%):	12.5%	Classes:	1
Lines of code:	272	Complexity:	47	Comment lines:	47	Public undocumented API:	7	Number of Children:	0
Methods:	12	Complexity /method:	3.9			Public API:	8	Depth in Tree:	1
Accessors:	23							Response for Class:	80

fecs

[fecs.simulator.Cabin](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	114	Statements:	22	Comments (%):	21.8%	Public documented API (%):	12.5%	Classes:	2
Lines of code:	68	Complexity:	9	Comment lines:	19	Public undocumented API:	7	Number of Children:	0
Methods:	6	Complexity /method:	1.5			Public API:	8	Depth in Tree:	2
Accessors:	9							Response for Class:	11

fecs

[fecs.simulator.Floor](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	41	Statements:	5	Comments (%):	24.1%	Public documented API (%):	25.0%	Classes:	1
Lines of code:	22	Complexity:	5	Comment lines:	7	Public undocumented API:	3	Number of Children:	0
Methods:	3	Complexity /method:	1.7			Public API:	4	Depth in Tree:	2
Accessors:	1							Response for Class:	5

fecs

[fecs.simulator.Passenger](#)

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines:	81	Statements:	20	Comments (%):	25.4%	Public documented API (%):	33.3%	Classes:	2
Lines of code:	44	Complexity:	15	Comment lines:	15	Public undocumented API:	2	Number of Children:	0
Methods:	2	Complexity /method:	7.5			Public API:	3	Depth in Tree:	1
Accessors:	6							Response for Class:	5

# Fecs.simulator

## Comments (%)

<u>Place</u>	3.3%
<u>PassengerMaker</u>	3.3%
<u>Engine</u>	14.7%
<u>Cabin</u>	21.8%
<u>Floor</u>	24.1%
<u>Passenger</u>	25.4%

## Lines of code

<u>Engine</u>	272
<u>Cabin</u>	68
<u>PassengerMaker</u>	58
<u>Passenger</u>	44
<u>Place</u>	29
<u>Floor</u>	22

## Coverage

<u>Engine</u>	19.5%
<u>Passenger</u>	20.0%
<u>Cabin</u>	20.0%
<u>Floor</u>	21.4%
<u>Place</u>	38.5%
<u>PassengerMaker</u>	46.7%

## Complexity /file

<u>Engine</u>	47.0
<u>Passenger</u>	15.0
<u>Cabin</u>	9.0
<u>PassengerMaker</u>	8.0
<u>Place</u>	6.0
<u>Floor</u>	5.0

## Issues

<u>Engine</u>	73
<u>Passenger</u>	16
<u>Cabin</u>	8
<u>Floor</u>	6
<u>Place</u>	3
<u>PassengerMaker</u>	2



# ( Fecs.interfaces )

fecs

## fecs.interfaces.IPassengerMaker

[Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines: 22	Statements: 0	Comments (%): 16.7%	Public documented API (%): 12.5%	Classes: 1
Lines of code: 10	Complexity: 0	Comment lines: 2	Public undocumented API: 7	Number of Children: 1
Methods: 7	Complexity /method: 0.0		Public API: 8	Depth in Tree: 0
Accessors: 0				Response for Class: 7

fecs

## fecs.interfaces.ICircumstance

[Coverage](#) [Duplications](#) [Issues](#) [LCOM4](#) [Source](#)

Lines: 22	Statements: 0	Comments (%): 35.0%	Public documented API (%): 33.3%	Classes: 1
Lines of code: 13	Complexity: 0	Comment lines: 7	Public undocumented API: 2	Number of Children: 6
Methods: 2	Complexity /method: 0.0		Public API: 3	Depth in Tree: 0
Accessors: 0				Response for Class: 3

### Comments (%)

<a href="#">IPassengerMaker</a>	16.7%
<a href="#">ICircumstance</a>	35.0%

### Coverage

<a href="#">ICircumstance</a>	0.0%
-------------------------------	------

### Lines of code

<a href="#">ICircumstance</a>	13
<a href="#">IPassengerMaker</a>	10

### Complexity /file

<a href="#">IPassengerMaker</a>	0.0
<a href="#">ICircumstance</a>	0.0

### Issues

<a href="#">ICircumstance</a>	25
-------------------------------	----



# ( Issues - 1 )

Description	Component
<u>Utility classes should not have a public or default constructor.</u>	fecs fecs.CabinsController
<u>Rename this local variable name to match the regular expression <code>^[a-z][a-zA-Z0-9]*\$</code>.</u>	fecs fecs.CabinsController
<u>Missing curly brace.</u>	fecs fecs.CabinsController
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.CabinsController
<u>Remove the dependency on the source file "fecs_simulator.Floor" to break a package cycle.</u>	fecs fecs.CabinsController
<u>Missing curly brace.</u>	fecs fecs.CabinsController
<u>The Cyclomatic Complexity of this method is 12 which is greater than 10 authorized.</u>	fecs fecs.CabinsController
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.CabinsController
<u>Rename this local variable name to match the regular expression <code>^[a-z][a-zA-Z0-9]*\$</code>.</u>	fecs fecs.CabinsController
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.CabinsController

# ( Issues - 2 )

Description	Component
<u>Unused import - fecs.model.Vector.</u>	fecs fecs.CabinsControlle
<u>Remove the dependency on the source file "fecs.simulator.Cabin" to break a package cycle.</u>	fecs fecs.CabinsControlle
<u>Variable 'elapsedTime' must be private and have accessor methods.</u>	fecs fecs.Circumstance
<u>Rename this constant name to match the regular expression "[A-Z][A-Z0-9]*([A-Z0-9]+)*\$".</u>	fecs fecs.Circumstance
<u>Missing curly brace.</u>	fecs fecs.Circumstance
<u>Avoid unused private fields such as 'interp'.</u>	fecs fecs.Circumstance
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.Circumstance
<u>Don't use trailing comments.</u>	fecs fecs.Circumstance
<u>Variable 'name' must be private and have accessor methods.</u>	fecs fecs.Circumstance
<u>Remove the dependency on the source file "fecs.ui.UserInterface" to break a package cycle.</u>	fecs fecs.Fecs





# ( Issues - 5 )

Description	Component
<u>Consider replacing this Vector with the newer java.util.List</u>	fecs fecs.event.ElevatorCall
<u>Avoid using implementation types like 'Vector': use the interface instead</u>	fecs fecs.event.ElevatorCall
<u>Consider replacing this Vector with the newer java.util.List</u>	fecs fecs.event.ElevatorCall
<u>Avoid using implementation types like 'Vector': use the interface instead</u>	fecs fecs.event.ElevatorCall
<u>Consider replacing this Vector with the newer java.util.List</u>	fecs fecs.event.ElevatorCall
<u>Avoid using implementation types like 'Vector': use the interface instead</u>	fecs fecs.event.ElevatorCall
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Remove the dependency on the source file "fecs.Circumstance" to break a package cycle.</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance

# Issues - 6

Description	Component
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Don't use trailing comments.</u>	fecs fecs.interfaces.ICircumstance
<u>Don't use trailing comments.</u>	fecs fecs.interfaces.ICircumstance
<u>Don't use trailing comments.</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance



# Issues - 7



Description	Component
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Don't use trailing comments.</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Avoid modifiers which are implied by the context</u>	fecs fecs.interfaces.ICircumstance
<u>Don't use trailing comments.</u>	fecs fecs.interfaces.ICircumstance
<u>Redundant 'public' modifier.</u>	fecs fecs.interfaces.ICircumstance



# ( Issues - 8 )

Description	Component
<u>Rename this constant name to match the regular expression <code>^[A-Z][A-Z0-9]*( [A-Z0-9]+)*\$</code>.</u>	fecs fecs.interfaces.ICircumstance
<u>'4' is a magic number.</u>	fecs fecs.model.FloorType
<u>'6' is a magic number.</u>	fecs fecs.model.FloorType
<u>'10' is a magic number.</u>	fecs fecs.model.FloorType
<u>'9' is a magic number.</u>	fecs fecs.model.FloorType
<u>The Cyclomatic Complexity of this method is 24 which is greater than 10 authorized.</u>	fecs fecs.model.FloorType
<u>'3' is a magic number.</u>	fecs fecs.model.FloorType
<u>'7' is a magic number.</u>	fecs fecs.model.FloorType
<u>'5' is a magic number.</u>	fecs fecs.model.FloorType
<u>'8' is a magic number.</u>	fecs fecs.model.FloorType



# ( Issues - 9 )

Description	Component
<u>Unused import - feces.Feces.</u>	feces feces.simulator.Cabin
<u>This block of commented-out lines of code should be removed.</u>	feces feces.simulator.Cabin
<u>This block of commented-out lines of code should be removed.</u>	feces feces.simulator.Cabin
<u>Unused import - feces.model.FloorType.</u>	feces feces.simulator.Cabin
<u>This block of commented-out lines of code should be removed.</u>	feces feces.simulator.Cabin
<u>This block of commented-out lines of code should be removed.</u>	feces feces.simulator.Cabin
<u>This block of commented-out lines of code should be removed.</u>	feces feces.simulator.Cabin
<u>Missing curly brace.</u>	feces feces.simulator.Cabin
<u>This block of commented-out lines of code should be removed.</u>	feces feces.simulator.Engine
<u>'700d' is a magic number.</u>	feces feces.simulator.Engine

# ( Issues - 10 )

Description	Component
<u>Remove the dependency on the source file "fecs.ui.UserInterface" to break a package cycle.</u>	fecs fecs.simulator.Engine
<u>'0.2' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Rename this constant name to match the regular expression '[A-Z][A-Z0-9]*([A-Z0-9]+)*\$'.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>'0.5' is a magic number.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine
<u>'0.2' is a magic number.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine

# Issues - 11

Description	Component
<u>'10' is a magic number.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>'30' is a magic number.</u>	fecs fecs.simulator.Engine
<u>The Cyclomatic Complexity of this method is 14 which is greater than 10 authorized.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>'public' modifier out of order with the JLS suggestions.</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine
<u>'0.22' is a magic number.</u>	fecs fecs.simulator.Engine
<u>'27000d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine

# ( Issues - 12 )

Description	Component
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine
<u>A method/constructor shouldn't explicitly throw java.lang.Exception</u>	fecs fecs.simulator.Engine
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.simulator.Engine
<u>Avoid instantiating Integer objects. Call Integer.valueOf() instead.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>Avoid instantiating Integer objects. Call Integer.valueOf() instead.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine

# Issues - 13

Description	Component
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>'10' is a magic number.</u>	fecs fecs.simulator.Engine
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.simulator.Engine
<u>'12' is a magic number.</u>	fecs fecs.simulator.Engine
<u>'1.622d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Avoid unused private fields such as 'TARGET_WIDTH'.</u>	fecs fecs.simulator.Engine
<u>'10000d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine

# Issues - 14

Description	Component
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>Avoid unused private fields such as 'ACCEL'.</u>	fecs fecs.simulator.Engine
<u>Remove the dependency on the source file "fecs.ui.Renderer" to break a package cycle.</u>	fecs fecs.simulator.Engine
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.simulator.Engine
<u>'15' is a magic number.</u>	fecs fecs.simulator.Engine
<u>'public' modifier out of order with the JLS suggestions.</u>	fecs fecs.simulator.Engine
<u>Rename this constant name to match the regular expression <code>^[A-Z][A-Z0-9]*_[A-Z0-9]+*\$</code>.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>Avoid unused private fields such as 'passengerMaker'.</u>	fecs fecs.simulator.Engine
<u>Define and throw a dedicated exception instead of using a generic one.</u>	fecs fecs.simulator.Engine

# Issues - 15

Description	Component
<u>A method/constructor shouldn't explicitly throw java.lang.Exception</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.simulator.Engine
<u>Rename this constant name to match the regular expression <code>^[A-Z][A-Z0-9]*_[A-Z0-9+]*\$</code>.</u>	fecs fecs.simulator.Engine
<u>Missing curly brace.</u>	fecs fecs.simulator.Engine
<u>'3.711d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Avoid unused private fields such as TARGET_HEIGHT.</u>	fecs fecs.simulator.Engine
<u>'8.87d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>'public' modifier out of order with the JLS suggestions.</u>	fecs fecs.simulator.Engine

# Issues - 16

Description	Component
<u>No need to call <code>String.valueOf</code> to append to a string.</u>	fecs fecs.simulator.Engine
<u>'80d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine
<u>'10' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Boolean expression complexity is 4 (max allowed is 3).</u>	fecs fecs.simulator.Engine
<u>'1660d' is a magic number.</u>	fecs fecs.simulator.Engine
<u>'0.001' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Engine
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Engine



# Issues - 17

Description	Component
<u>'0.5' is a magic number.</u>	fecs fecs.simulator.Engine
<u>Don't use trailing comments.</u>	fecs fecs.simulator.Floor
<u>Avoid unused private fields such as 'wait'.</u>	fecs fecs.simulator.Floor
<u>Avoid unused local variables such as 'vector'.</u>	fecs fecs.simulator.Floor
<u>Consider replacing this Vector with the newer java.util.List</u>	fecs fecs.simulator.Floor
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Floor
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Floor
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Passenger
<u>The Cyclomatic Complexity of this method is 14 which is greater than 10 authorized.</u>	fecs fecs.simulator.Passenger
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.simulator.Passenger

# Issues - 18

Description	Component
<u>Missing curly brace.</u>	fecs fecs.simulator.Passenger
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.simulator.Passenger
<u>Missing curly brace.</u>	fecs fecs.simulator.Passenger
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Passenger
<u>Definition of 'equals()' without corresponding definition of 'hashCode()'.</u>	fecs fecs.simulator.Passenger
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.simulator.Passenger
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.simulator.Passenger
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.simulator.Passenger
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Passenger
<u>Missing curly brace.</u>	fecs fecs.simulator.Passenger

# Issues - 19

Description	Component
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.simulator.Passenger
<u>Missing curly brace.</u>	fecs fecs.simulator.Passenger
<u>Missing curly brace.</u>	fecs fecs.simulator.Passenger
<u>'30' is a magic number.</u>	fecs fecs.simulator.PassengerMaker
<u>Avoid unused private fields such as 'lastUpdateTime'.</u>	fecs fecs.simulator.PassengerMaker
<u>Variable 'name' must be private and have accessor methods.</u>	fecs fecs.simulator.Place
<u>Variable 'passengers' must be private and have accessor methods.</u>	fecs fecs.simulator.Place
<u>Variable 'position' must be private and have accessor methods.</u>	fecs fecs.simulator.Place
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.ui.Controller
<u>Missing curly brace.</u>	fecs fecs.ui.Controller

# ( Issues - 20 )

Description	Component
<u>The Cyclomatic Complexity of this method is 16 which is greater than 10 authorized.</u>	fecs fecs.ui.Controller
<u>Missing curly brace.</u>	fecs fecs.ui.Controller
<u>'10' is a magic number.</u>	fecs fecs.ui.Controller
<u>Missing curly brace.</u>	fecs fecs.ui.Controller
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.ui.Controller
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.ui.Controller
<u>'50.0' is a magic number.</u>	fecs fecs.ui.Controller
<u>'100' is a magic number.</u>	fecs fecs.ui.Controller
<u>Missing curly brace.</u>	fecs fecs.ui.Controller
<u>At most one statement is allowed per line. but 2 statements were found on this line.</u>	fecs fecs.ui.Controller

# Issues - 21

Description	Component
<u>Missing curly brace.</u>	fecs fecs.ui.Controller
<u>This block of commented-out lines of code should be removed.</u>	fecs fecs.ui.Controller
<u>'50' is a magic number.</u>	fecs fecs.ui.Controller
<u>At most one statement is allowed per line, but 3 statements were found on this line.</u>	fecs fecs.ui.Controller
<u>At most one statement is allowed per line, but 2 statements were found on this line.</u>	fecs fecs.ui.Controller
<u>Missing curly brace.</u>	fecs fecs.ui.Controller
<u>Missing curly brace.</u>	fecs fecs.ui.Controller
<u>'10' is a magic number.</u>	fecs fecs.ui.Controller
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface

# Issues - 22

Description	Component
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'5' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>The method \$\$\$setUpUI\$\$\$() has an NCSS line count of 108</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>Rename this method name to match the regular expression <code>^[a-z][a-zA-Z0-9]*\$</code>.</u>	fecs fecs.ui.UserInterface
<u>The Cyclomatic Complexity of this method is 20 which is greater than 10 authorized.</u>	fecs fecs.ui.UserInterface



# Issues - 23



Description	Component
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'300' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'555' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface

# Issues - 24

Description	Component
<u>'509' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'610' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>Rename this method name to match the regular expression <code>^[a-z][a-zA-Z0-9]*\$</code>.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface
<u>'4' is a magic number.</u>	fecs fecs.ui.UserInterface



# ( Issues - 25 )

Description	Component
<u>'3' is a magic number.</u>	fecs fecs.ui.UserInterface