Software Verification

<1st Testing –Static Analysis Report>

T1

201411276 서수빈 201411291 이금락 201411292 이민환 201411313 장진서

2019.6.7

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 - iii. Analysis Result

2. Team2

A. Sonarqube

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B. Sonar way

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- i. Overall
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- iii. Analysis Result

E. CheckStyle

- i. Overall
- ii. Code
- iii. Analysis Result

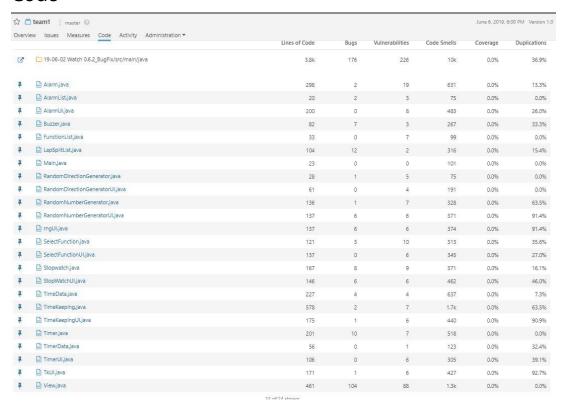
[SMA T1]

1. SonarQube

A. URL

i. http://ec2-3-14-135-144.us-east-2.compute.amazonaws.com:9000/dashboard?id=team1

B. Code

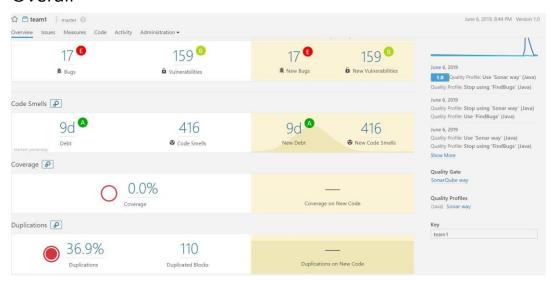


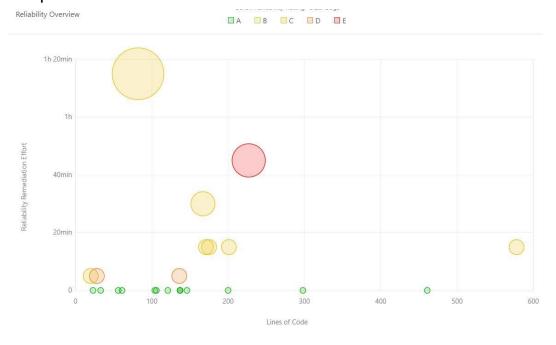
C. Quality Profiles

- i. Sonar way
- ii. PMD
- iii. FindBugs
- iv. CheckStyle

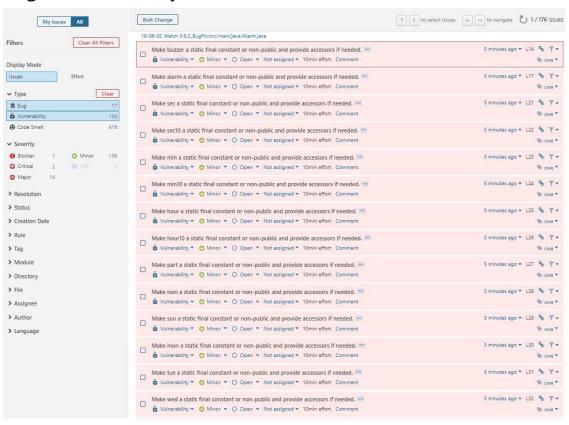
2. Sonar way

A. Overall





i. Bug & Vulnerability



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19-06-02 Watch 0.6.2_BugFix/src/main/java/Buzzer.java	
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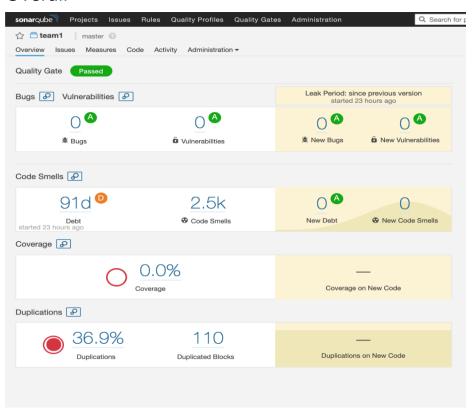
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19-06-02 Watch 0.6.2_BugFix/src/main/java/RandomNumberGenerator.java	
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Make setting a static final constant or non-public and provide accessors if needed.	6 minutes ago ▼ L23 % ▼ ▼
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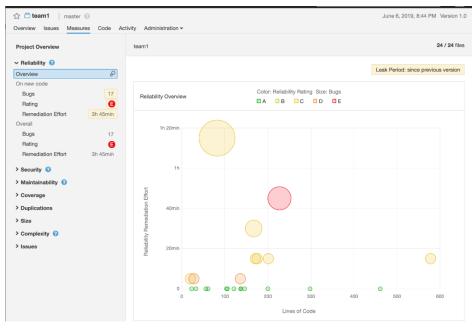


Directly append the argument of String,valueOf(). ••• ② Code Smell ▼ ③ Minor ▼ ② Open ▼ Not assigned ▼ Smin effort Comment	8 minutes ago ▼ L276 % ▼▼
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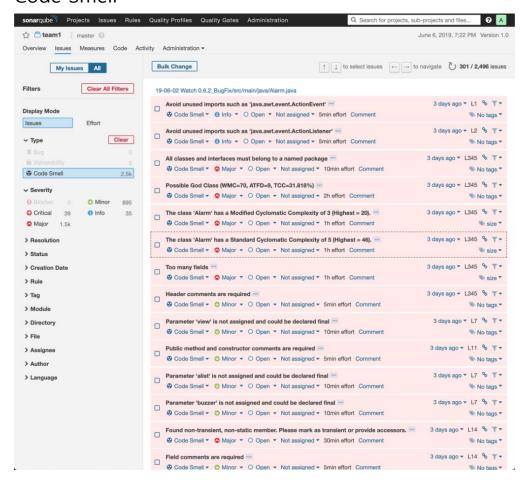
3. PMD

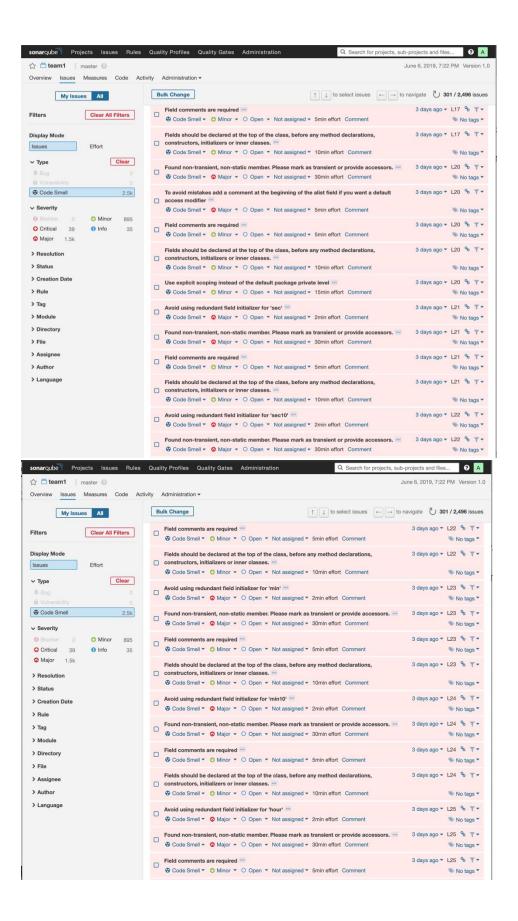
A. Overall

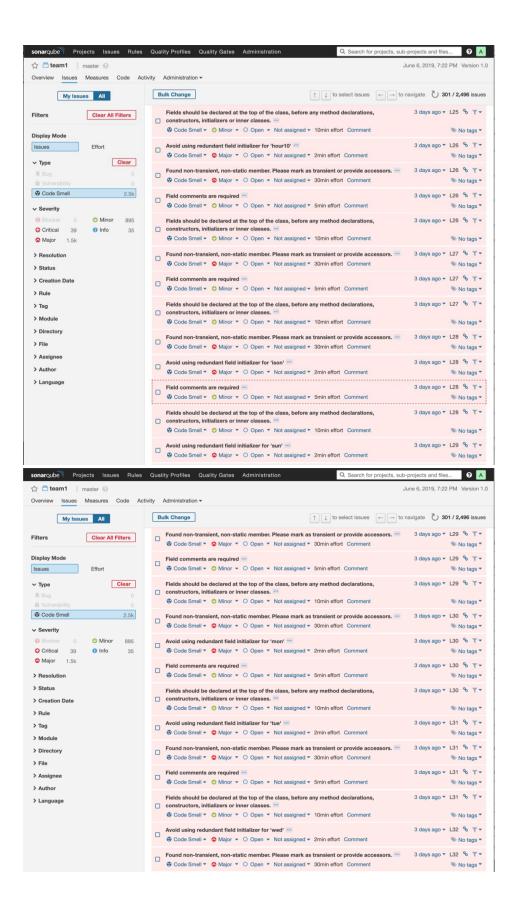




- i. Bug & Vulnerability
 - (Not Found)
- ii. Code Smell

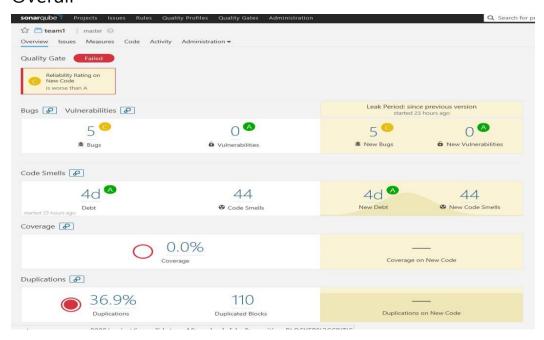


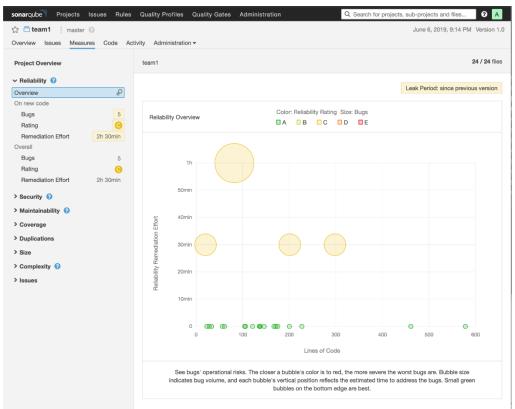




4. FindBugs

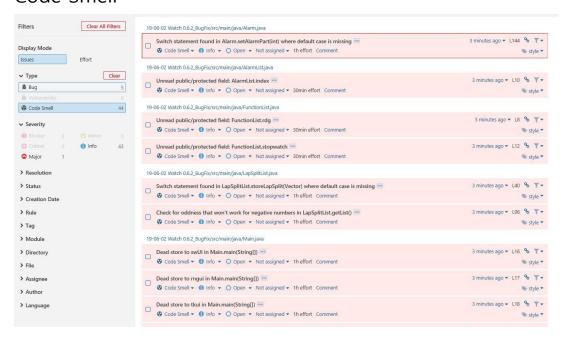
A. Overall





i. Bug & Vulnerability



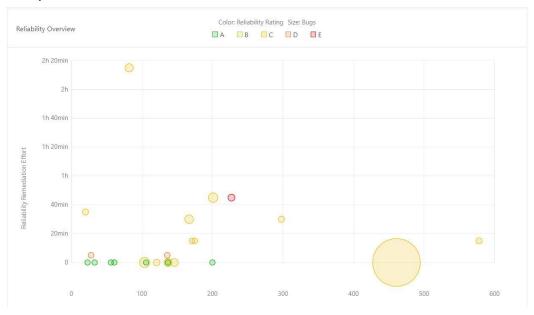




5. CheckStyle

A. Overall





i. Bug & Vulnerability



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team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/AlarmList.java	
Make alarm a static final constant or non-public and provide accessors if needed.	3 days ago ▼ L8 % ▼ →
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Don't extend "Thread", since the "run" method is not overridden	3 days ago ▼ L26 % ▼▼ • multi-threading, pitfall ▼
Unread field: AlarmList.manageSnooze	3 days ago ▼ L26 % ▼▼ • performance ▼
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team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/Buzzer.java	
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Unused field: Buzzer.interval *** ** Bug * * Major * O Open * Not assigned * 30min effort Comment	3 days ago ▼ L1 % ▼ ▼ *
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	Either re-interrupt this method or rethrow the "InterruptedException".	3 days ago ▼ L44 % T
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	Either re-interrupt this method or rethrow the "InterruptedException".	3 days ago ▼ L57 % ¶
	# Bug ▼	w cwe, error-handling, multi-threading
	Either re-interrupt this method or rethrow the "InterruptedException"	3 days ago ▼ L62 % 】
	# Bug → ♠ Major → ♠ Open → Not assigned → 15min effort Comment	cwe, error-handling, multi-threading
	Either re-interrupt this method or rethrow the "InterruptedException"	3 days ago 💌 L81 🗞 🧻
tean	n1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/FunctionList.java	
	Make alarm a static final constant or non-public and provide accessors if needed.	3 days ago ▼ L14 % ¶
	ⓑ Vulnerability ▼ 😲 Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	≫ cwe
	Make rdg a static final constant or non-public and provide accessors if needed. ***	3 days ago ▼ L15 % T
	6 Vulnerability ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	> cwe
3	Make rng a static final constant or non-public and provide accessors if needed.	3 days ago ▼ L16 % ¶
	Make timekeeping a static final constant or non-public and provide accessors if needed. ***	3 days ago ▼ L17 % ¶
	6 Vulnerability ▼	≫ cw
	Make timer a static final constant or non-public and provide accessors if needed	3 days ago ▼ L18 % 1
	6 Vulnerability ▼ 😲 Minor ▼ 🔘 Open ▼ Not assigned ▼ 10min effort Comment	
	Make stopwatch a static final constant or non-public and provide accessors if needed	3 days ago ▼ L19 % 1
	6 Vulnerability ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	● cw
)	Make functionon a static final constant or non-public and provide accessors if needed. •••• © Vulnerability • © Minor • © Open • Not assigned • 10min effort Comment	3 days ago ▼ L21 % ▼
am	1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/LapSplitList.java	W CW
i	Make nodeNum a static final constant or non-public and provide accessors if needed	3 days ago ▼ L9 % 1
1	6 Vulnerability ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	≫ cw
. 1	Make Ins a static final constant or non-public and provide accessors if needed. •••	3 days ago ▼ L11 % 1
]	ⓑ Vulnerability ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	S cw
, 1	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L44 % T
	Bug ▼	> performanc
1	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago 🕶 L49 🗞 🤻
	Bug ▼ Major ▼ O Open ▼ Not assigned ▼ Comment	> performance
	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago 🕶 L55 🗞 🦜
	Bug → 🌘 Major → 🔘 Open → Not assigned → Comment	performance
10 8	Wethod LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago 💌 L56 🗞 🥈
	## Bug ♥ Open ♥ Not assigned ♥ Comment	> performanc
י נ	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L62 %
		> performanc
1	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L63 % ¹
1	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ By Bug ▼ Amjor ▼ Open ▼ Not assigned ▼ Comment	3 days ago 💌 L69 🗞 🧻
		3 days ago ▼ L70 % T
י ו	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L/0 16 1
		3 days ago ▼ L71 % 】
13 8	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	> days ago + E/1 + 6
. 1	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ***	3 days ago ▼ L77 % ¶
	Major ▼ ○ Open ▼ Not assigned ▼ Comment	performance
1	Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L78 % ¶
]	, , , , , , , , , , , , , , , , , , , ,	

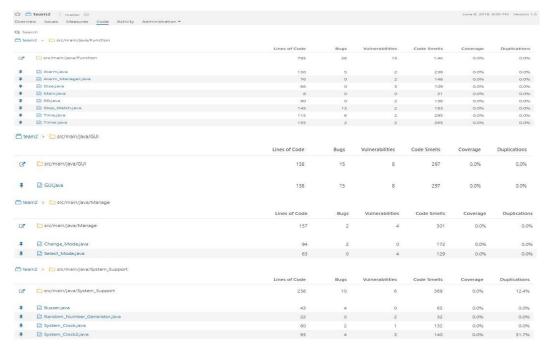
team1					
Add a 'package-info,java' file to document the '19-06-02 Watch 0.6.2_BugFix\src\main\java' package Code Smell One Code	1 hour ago ▼ % ▼ ▼				
19-06-02 Watch 0.6.2_BugFix/src/main/java/Alarm.java					
Add or update the header of this file. ••• Code Smell • ① Blocker • ② Open • Not assigned • Smin effort Comment	3 days ago ▼ % ▼ ▼ No tags ▼				
149 more lines of code need to be covered by tests to reach the minimum threshold of 65.0% lines coverage. ③ Code Smell ▼ ③ Major ▼ ○ Open ▼ Not assigned ▼ 4h58min effort Comment	3 days ago ▼ % ▼▼ ** bad-practice ▼				
60 more comment lines need to be written to reach the minimum threshold of 25.0% comment density. ••• Code Smell •	3 days ago ▼ % ▼ ▼				
2 duplicated blocks of code must be removed ③ Code Smell ▼ ③ Major ▼ ○ Open ▼ Not assigned ▼ 30min effort Comment	3 days ago ▼ % ▼ ▼				
Move this file to a named package. Occide Smell ▼ Minor ▼ Occide Smell ▼ Occide Sme	3 days ago ▼ % ▼ ▼				
Add a new line at the end of this file. *** Code Smell * O Minor O Open * Not assigned * 1min effort Comment	3 days ago ▼ % ▼ ▼				
Remove this unused import 'java.awt.event.ActionEvent' Code Smell Minor Open Not assigned Zmin effort Comment	3 days ago ▼ L1 % ▼▼				
File does not end with a newline. ○ Code Smell ○ Open ○ Not assigned ○ Zmin effort Comment	3 days ago ▼ L1 % ▼ ▼ No tags ▼				
Missing package-info,java file. Code Smell ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 30min effort Comment	3 days ago ▼ L1 % ▼ ▼				
Avoid unused imports such as 'java.awt.event.ActionEvent' ••• Code Smell • ① Info • ② Open • Not assigned • Smin effort Comment	3 days ago 🕶 L1 % 🔻 🖜 No tags 🕶				
Unused import - java.awt.event.ActionEvent. □ © Code Smell ▼ ① Info ▼ ○ Open ▼ Not assigned ▼ 2min effort Comment	3 days ago ▼ L1 % ▼ ▼ No tags ▼				
Remove this unused import 'java.awt.event.ActionListener'. ••• Code Smell • O Open • Not assigned • 2min effort Comment	3 days ago ▼ L2 % ▼▼ • unused ▼				
Avoid unused imports such as 'java.awt.event.ActionListener' Code Smell Not assigned Smin effort Comment	3 days ago ▼ L2 % ▼ ▼ No tags ▼				
Unused import - java.awt.event.ActionListener Code Smell ▼ 1 Info ▼ ○ Open ▼ Not assigned ▼ 2min effort Comment	3 days ago ▼ L2 % ▼ ▼ No tags ▼				
Explicitly import the specific classes needed. •• Code Smell • • Critical • • Open • Not assigned • Smin effort Comment	3 days ago ▼ L3 % ▼▼ • pitfall ▼				
Using the '.*' form of import should be avoided - java.util.*. Code Smell ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 15min effort Comment	3 days ago ▼ L3 % ▼ ▼ No tags ▼				
All classes and interfaces must belong to a named package Code Smell ▼	3 days ago ▼ L345 % ▼ ▼ ® No tags ▼				
Possible God Class (WMC=70, ATFD=9, TCC=31.818%) → Code Smell → Major → O Open → Not assigned → 2h effort Comment	3 days ago ▼ L345 % ▼ ▼ No tags ▼				
The class 'Alarm' has a Modified Cyclomatic Complexity of 3 (Highest = 20). Code Smell ▼ Major ▼ O Open ▼ Not assigned ▼ 1h effort Comment	3 days ago ▼ L345 % ▼ ▼ * * size *				
The class 'Alarm' has a Standard Cyclomatic Complexity of 5 (Highest = 46). Code Smell ▼	3 days ago ▼ L345 % ▼ ▼ ▼				
Too many fields Solution Code Smell ▼ Solution Not assigned ▼ 1h effort Comment	3 days ago ▼ L345 % ▼ ▼				
Refactor this class so it has no more than 20 fields, rather than the 21 it currently has. ••• Code Smell • Major • O Open • Not assigned • The effort Comment	3 days ago ▼ L5 % ▼▼ • brain-overload ▼				
Header comments are required ··· Code Smell ▼ Onen ▼ Not assigned ▼ Smin effort Comment	3 days ago ▼ L345 % ▼ ▼ No tags ▼				

0	Move this left curly brace to the beginning of next line of code. ••• Code Smell ▼ O Minor ▼ O Open ▼ Not assigned ▼ 1min effort Comment	3 days ago ▼ L5 % ▼ ▼
0	Type Javadoc comment is missing null tag. Code Smell Open Not assigned 30min effort Comment	3 days ago ▼ L5 % ▼ ▼ No tags ▼
	Parameter 'view' is not assigned and could be declared final ② Code Smell ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L7 % ▼ ▼ No tags ▼
	Public method and constructor comments are required Code Smell ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 5min effort Comment.	3 days ago * L11 % * * * No tags *
	Parameter 'alist' is not assigned and could be declared final Code Smell ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L7 % ▼ ▼ No tags ▼
0	Parameter 'buzzer' is not assigned and could be declared final Code Smell ▼ O Minor ▼ O Open ▼ Not assigned ▼ 10min effort Comment	3 days ago → L7 % ▼ → No tags ▼
0	Move this left curly brace to the beginning of next line of code. [™] © Code Smell ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 1min effort Comment	3 days ago ▼ L7 % ▼ ▼ © convention ▼
	Make this line start after 2 spaces to indent the code consistently ② Code Smell ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 1min effort Comment	3 days ago ▼ L7 % ▼ ▼
0	Make this line start after 4 spaces to indent the code consistently ② Code Smell ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 1min effort Comment	3 days ago ▼ L8 % ▼ ▼
0	Found non-transient, non-static member. Please mark as transient or provide accessors. Code Smell Major Open Not assigned 30min effort Comment	3 days ago ▼ L14 % ▼ ▼
	Variable 'buzzer' must be private and have accessor methods. ◆ Code Smell ★ Major ▼ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L14 % ▼ ▼ No tags ▼
0	Field comments are required Code Smell ▼ O Minor ▼ O Open ▼ Not assigned ▼ 5min effort Comment	3 days ago ▼ L14 % ▼ ▼ No tags ▼
	Fields should be declared at the top of the class, before any method declarations, constructors, initializers or inner classes.	3 days ago → L14 % ▼ →

[SMA T2]

1. SonarQube

- A. URL
 - i. http://ec2-3-14-135-144.us-east-2.compute.amazonaws.com:9000/dashboard?id=team2
- B. Code



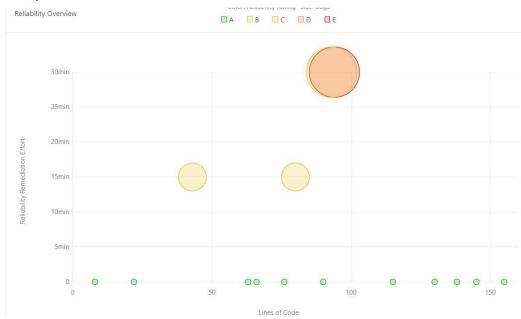
C. Quality Profiles

- i. Sonar way
- ii. PMD
- iii. FindBugs
- iv. CheckStyle

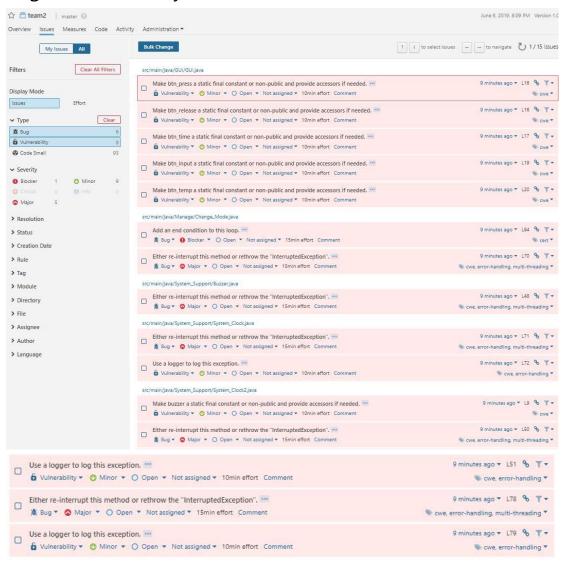
2. Sonar way

A. Overall





i. Bug & Vulnerability

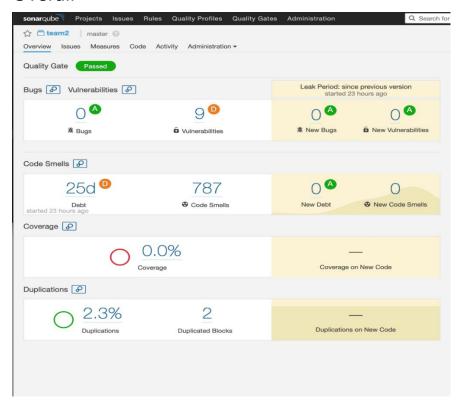


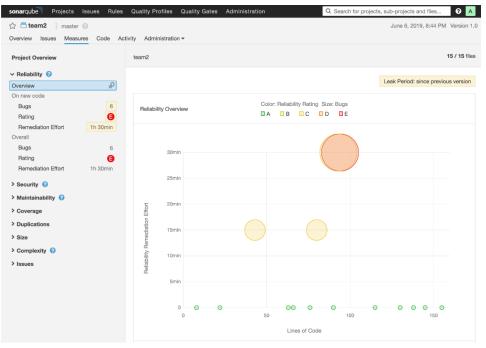


	Refactor this method to reduce its Cognitive Complexity from 25 to the 15 allowed. ••• © Code Smell • © Critical • O Open • Not assigned • 15min effort Comment	10 minutes ago ▼ L60 20 % ▼ ▼ brain-overload ▼
	This block of commented-out lines of code should be removed. *** © Code Smell *	10 minutes ago ▼ L62 % ▼ ▼
0	This block of commented-out lines of code should be removed. *** ② Code Smell ▼ ② Major ▼ ② Open ▼ Not assigned ▼ Smin effort. Comment	10 minutes ago ▼ L67 % ▼▼ * based-on-misra, misra, unused ▼
	This block of commented-out lines of code should be removed. *** Code Smell *	10 minutes ago ▼ L72 % ▼▼ Sobased-on-misra, misra, unused ▼
	This block of commented-out lines of code should be removed. **** © Code Smell *	10 minutes ago ▼ L77 % ▼▼ \$ based-on-misra, misra, unused ▼
	This block of commented-out lines of code should be removed, *** Code Smell *	10 minutes ago ▼ L82 % ▼ ▼ based-on-misra, misra, unused ▼
	Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$', *** © Code Smell * © Minor * O Open * Not assigned * Smin effort Comment	10 minutes ago ▼ L112 % ▼▼
	Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$', *** © Code Smell * © Minor * O Open * Not assigned * Smin effort Comment	10 minutes ago ▼ L115 % ▼ ▼
src,	main/java/Function/Timer.java	
	Rename this package name to match the regular expression '^[a-z_]+(\[a-z_][a-z0-9_]")^\$'. ••• © Code Smell • © Minor • O Open • Not assigned • 10min effort Comment	10 minutes ago ▼ L1 % ▼▼
	Remove the "t" field and declare it as a local variable in the relevant methods. *** Code Smell *	10 minutes ago 🕶 L13 🔏 🕎 🔻
	Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$', "** © Code Smell * © Minor * O Open * Not assigned * 5min effort Comment	10 minutes ago ▼ L85 % ▼▼
	Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$'. *** © Code Smell * © Minor * ○ Open * Not assigned * Smin effort Comment	10 minutes ago ▼ L88 % ▼▼
	Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$', ••• ② Code Smell ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 5min effort Comment	10 minutes ago ▼ L116 % ▼▼
0	Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$', *** Code Smell * Minor * O Open * Not assigned * Smin effort Comment	10 minutes ago ▼ L134 % ▼ ▼ © convention ▼

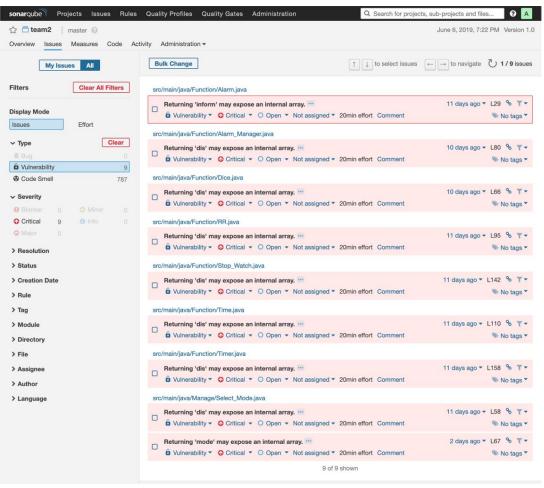
3. PMD

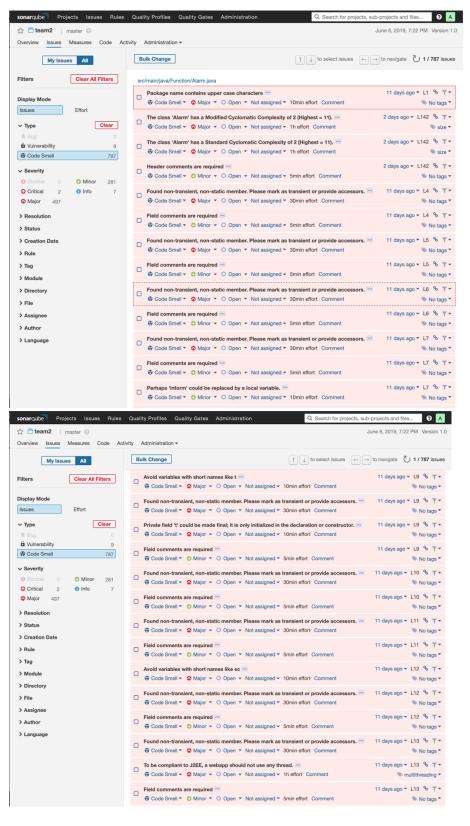
A. Overall

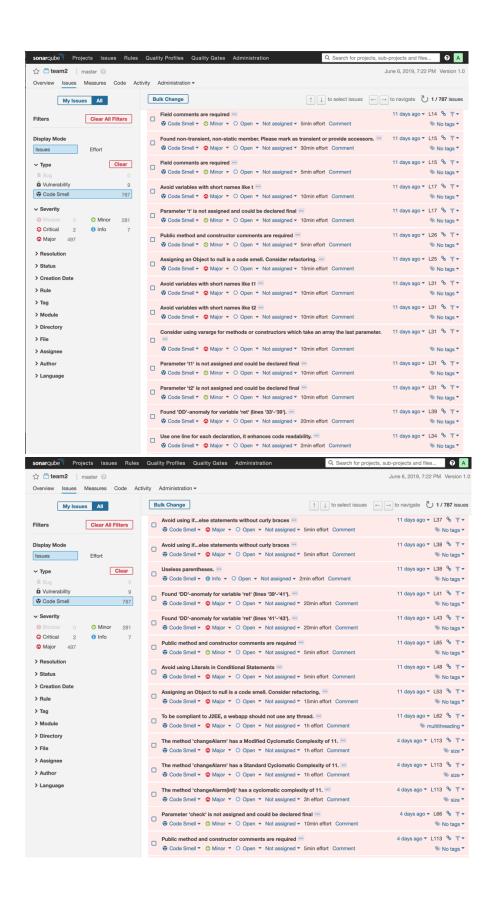




i. Bug & Vulnerability

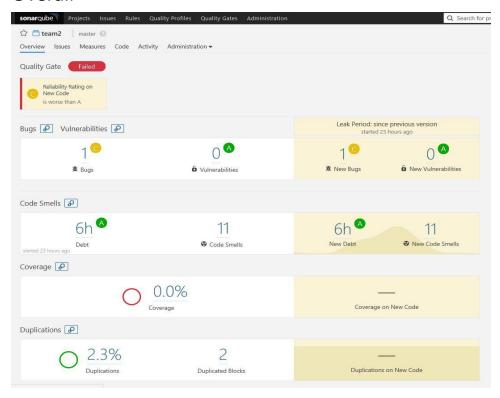


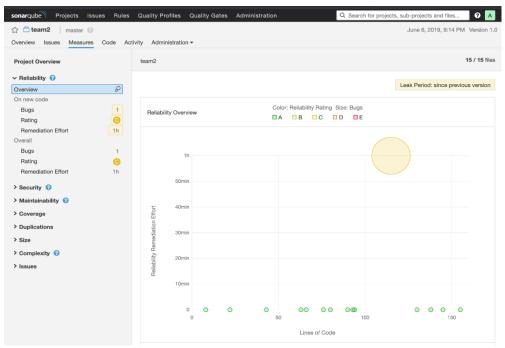




4. FindBugs

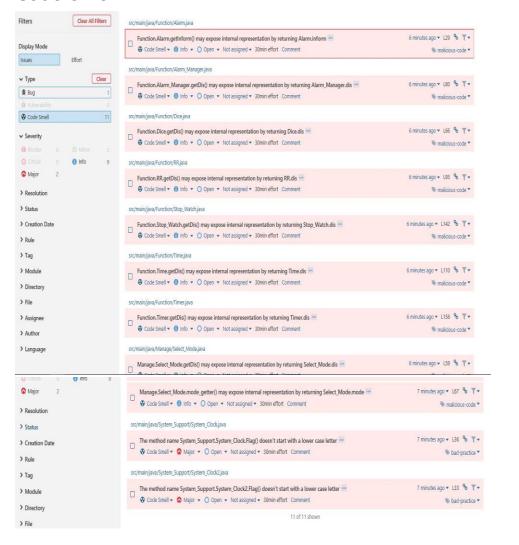
A. Overall





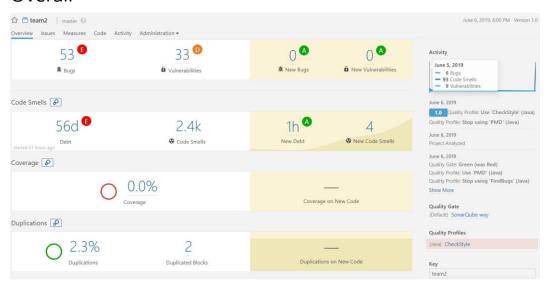
i. Bug & Vulnerability





5. CheckStyle

A. Overall





i. Bug & Vulnerability



team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/AlamtList.java	
Make alarm a static final constant or non-public and provide accessors if needed. ✓ Vulnerability ✓ Minor ✓ Open ✓ Not assigned ✓ 10min effort Comment	3 days ago ▼ L8 % ▼ ~
Explicitly declare the visibility for "manageSnooze". *** © Vulnerability * © Minor * O Open * Not assigned * Smin effort Comment	3 days ago ▼ L9 % ▼▼ No tags ▼
Make index a static final constant or non-public and provide accessors if needed. Ô Vulnerability ▼ Ô Minor ▼ Ô Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L10 % ▼▼
Don't extend "Thread", since the "run" method is not overridden. ™ ■ Bug ▼	3 days ago ▼ L26 % ▼▼ • multi-threading, pitfall ▼
Unread field: AlarmList.manageSnooze ***	3 days ago ▼ L26 % ▼▼ performance ▼
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/AlarmUl.java	
Explicitly declare the visibility for "f2slistener" 6 Vulnerability • O Minor • O Open • Not assigned • Smin effort Comment	3 days ago ▼ L84 % ▼▼ >> No tags ▼
Explicitly declare the visibility for "pressedTime" 6 Vulnerability • O Minor • O Open • Not assigned • Smin effort Comment	3 days ago ▼ L85 % ▼▼ No tags ▼
Explicitly declare the visibility for "timeClicked" © Vulnerability • © Minor • O Open • Not assigned • Smin effort Comment	3 days ago ▼ L86 % ▼▼ No tags ▼
Explicitly declare the visibility for "slistener". ••• • Vulnerability • • Minor • O Open • Not assigned • Smin effort Comment	3 days ago ▼ L144 % ▼▼ No tags ▼
Explicitly declare the visibility for "mlistener" © Vulnerability • © Minor • O Open • Not assigned • Smin effort Comment	3 days ago ▼ L170 % ▼▼ No tags ▼
Explicitly declare the visibility for "r2slistener". ••• • Vulnerability • • Minor • • O Open • Not assigned • Smin effort Comment	3 days ago ♥ L181 % ▼ ♥ No tags ♥
Explicitly declare the visibility for "pressedTime" © Vulnerability • O Minor • O Open • Not assigned • 5min effort Comment	3 days ago ▼ L182 % ▼▼ No tags ▼
Explicitly declare the visibility for "timeClicked" © Vulnerability • O Minor • O Open • Not assigned • Smin effort Comment	3 days ago ▼ L183 % ▼▼ No tags ▼
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/Buzzer.java	
Unused field: Buzzer.duration ••• ★ Bug ▼ ♠ Major ▼ ♠ Open ▼ Not assigned ▼ 30min effort Comment	3 days ago ▼ L1 % ▼▼ • performance ▼
Unused field: Buzzer.interval	3 days ago ▼ L1 % ▼▼
Make alist a static final constant or non-public and provide accessors if needed. Ô Vulnerability ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L10 % ▼ ▼ > cwe ▼
Make on a static final constant or non-public and provide accessors if needed. Ô Vulnerability ▼ O Minor ▼ O Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L12 % ▼▼ • cwe ▼
Make funcType a static final constant or non-public and provide accessors if needed. ô Vulnerability ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L15 % ▼ ▼ So cwe ▼
Either re-interrupt this method or rethrow the "InterruptedException". ★ Bug ▼ ♠ Major ▼ ♠ Open ▼ Not assigned ▼ 15min effort Comment	3 days ago ▼ L39 % ▼▼ So cwe, error-handling, multi-threading ▼
Either re-interrupt this method or rethrow the "InterruptedException". ™ ★ Bug ▼ ♠ Major ▼ ○ Open ▼ Not assigned ▼ 15min effort Comment	3 days ago ▼ L44 % ▼ ▼ Some error-handling, multi-threading ▼
Either re-interrupt this method or rethrow the "InterruptedException". ** Bug *	3 days ago ▼ L57 % ▼ ▼ \$\text{\$\text{we, error-handling, multi-threading}}\$
Either re-interrupt this method or rethrow the "InterruptedException".	3 days ago ▼ L62 % ▼ ▼ • cwe, error-handling, multi-threading ▼
□ Either re-interrupt this method or rethrow the "InterruptedException". * Bug ▼	3 days ago ▼ L81 % ▼ ▼
	a circ, circi rianamy, maid directary
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/FunctionList.java	e cac, cross rending, made discourg
team1 / 19-06-02 Watch 0.6.2 BugFix/src/main/java/FunctionList.java Make alarm a static final constant or non-public and provide accessors if needed. Vulnerability Online Volume Not assigned 10min effort Comment	3 days ago → L14 % T →
Make alarm a static final constant or non-public and provide accessors if needed.	3 days ago ▼ L14 % ▼▼
Make alarm a static final constant or non-public and provide accessors if needed. 6 Vulnerability Ominor Open Not assigned 10min effort Comment Make rdg a static final constant or non-public and provide accessors if needed.	3 days ago * L14 % T*

team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/LapSplitList.java	
Make nodeNum a static final constant or non-public and provide accessors if needed. ↑ Vulnerability ▼ ↑ Minor ▼ ↑ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L9 % ▼ ▼
Make Ins a static final constant or non-public and provide accessors if needed. 6 Vulnerability ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago 🕶 L11 🔏 🔻 🖜 cwe 🕶
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing with the second primitive using excessive boxing to boxed primitive using excessive boxing with the second primitive using excessive boxing to boxed primitive using excessive boxing with the second primitive using excessive boxing to boxed primitive using excessive boxing exc	3 days ago 🕶 L44 % 🔻 🕶
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ ∦ 8ug ▼	3 days ago ▼ L49 % ▼ ▼ performance ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ ##. Bug ▼ ♠ Majior ▼ ○ Open ▼ Not assigned ▼ Comment	3 days ago ▼ L55 % ▼ ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L56 % ▼ ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ ##, Bug ▼ ♠ Major ▼ ○ Open ▼ Not assigned ▼ Comment	3 days ago ▼ L62 % ▼ ▼ > performance ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L63 % T ▼ ® performance ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ™ M Bug ▼ ♠ Major ▼ ○ Open ▼ Not assigned ▼ Comment	3 days ago ▼ L69 % ▼ →
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L70 % ▼ ▼ performance ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing	3 days ago ▼ L71 % ▼ ▼ ® performance ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing → M Bug → Major → Open → Not assigned → Comment	3 days ago ▼ L77 % ▼ ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing — ## Bug ▼ ♠ Major ▼ ○ Open ▼ Not assigned ▼ Comment	3 days ago ▼ L78 % ▼ ▼ ⑤ performance ▼
Method LapSplitList.storeLapSplit(Vector) converts String to boxed primitive using excessive boxing ***	3 days ago ▼ L79 % ▼ ▼
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/RandomDirectionGenerator.java Make funcNum a static final constant or non-public and provide accessors if needed. Windows	3 days ago ▼ L13 % ▼ ▼
Make result a static final constant or non-public and provide accessors if needed. 6 Vulnerability ♥ Minor ▼ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L14 % ▼ ▼
Make eLCD a static final constant or non-public and provide accessors if needed. • • • • • • • • • • • • • • • • • •	3 days ago ▼ L15 % ▼ • • • • • • • • • • • • • • • • • •
Save and re-use this "Random". ••• ** Bug * * O Critical * O Open * Not assigned * 5min effort Comment	3 days ago ♥ L25 % ▼ ♥
Make sure that using this pseudorandom number generator is safe here. • • • • • • • • • • • • • • • • • •	3 days ago ▼ L25 % ▼▼ • cert, cwe, owasp-a3 ▼
The use of java.util.Random is predictable 6 Vulnerability • • Major • O Open • Not assigned • Comment	3 days ago ▼ L25 % ▼ ▼
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/RandomDirectionGeneratorUl.java	
Explicitly declare the visibility for "flistener".	3 days ago ▼ L17 % ▼ ▼ No tags ▼
Explicitly declare the visibility for "slistener".	3 days ago ▼ L26 % ▼ ▼ No tags ▼
Explicitly declare the visibility for "mlistener". 6 Vulnerability ▼	3 days ago ▼ L43 % ▼ ▼ No tags ▼
Explicitly declare the visibility for "rlistener".	3 days ago ▼ L57 % ▼ ▼ No tags ▼
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/RandomNumberGenerator.java	
Explicitly declare the visibility for "view". *** 6 Vulnerability * * Minor * O Open * Not assigned * 5min effort Comment	3 days ago ▼ L15 % ▼ ▼ No tags ▼
Make funcNum a static final constant or non-public and provide accessors if needed. ••• •• Winerability •• •• Minor •• •• Open •• Not assigned •• 10min effort Comment	3 days ago ▼ L16 % ▼ ▼
The state of the s	

team1 / team1	
Add a 'package-info,java' file to document the '19-06-02 Watch 0.6.2_BugFix\src\main\java' package *** Code Smell Minor Open Not assigned 20min effort Comment	1 hour ago * % T * • convention *
team1 / 19-06-02 Watch 0.6.2_BugFix/src/main/java/Alarm.java	
Add or update the header of this file. ** Code Smell * ① Blocker * ② Open * Not assigned * Smin effort Comment	3 days ago + % ▼ + No tags ▼
149 more lines of code need to be covered by tests to reach the minimum threshold of 65.0% lines coverage. ◆ Code Smell ▼ ♦ Major ▼ ○ Open ▼ Not assigned ▼ 4h58min effort Comment	3 days ago ▼ % ▼▼ bad-practice ▼
60 more comment lines need to be written to reach the minimum threshold of 25.0% comment density. Code Smell Major Open Not assigned 2h effort Comment	3 days ago ▼ % ▼ •
2 duplicated blocks of code must be removed.	3 days ago ▼ % ▼ ▼
Move this file to a named package. Octobe Smell Octobe	3 days ago • % 🕶
Add a new line at the end of this file. *** Code Smell * * Minor * Open * Not assigned * 1min effort Comment	3 days ago • % ▼•
Remove this unused import 'java.awt.event.ActionEvent' Code Smell Code	3 days ago ▼ L1 % ▼▼
File does not end with a newline. *** Code Smell * O Minor * O Open * Not assigned * 2min effort Comment	3 days ago ▼ L1 % ▼ ▼ No tags ▼
Missing package-info,java file. → Open → Not assigned → 30min effort. Comment	3 days ago ▼ L1 % ▼▼
Avoid unused imports such as 'java.awt.event.ActionEvent'	3 days ago ▼ L1 % ▼ ▼
Unused import - java.awt.event.ActionEvent. □ ② Code Smell ① Info ○ Open Not assigned 2min effort Comment	3 days ago ▼ L1 % ▼ ▼ No tags ▼
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Avoid unused imports such as 'java.awt.event.ActionListener' Code Smell • ① Info • O Open • Not assigned • 5min effort Comment	3 days ago ▼ L2 % ▼▼ No tags ▼
Unused import - java.awt.event.ActionListener. ••• Code Smell • ① Info • ② Open • Not assigned • 2min effort Comment	3 days ago ▼ L2 % ▼ ▼ No tags ▼
Explicitly import the specific classes needed. *** Code Smell * O Contical * O Open * Not assigned * Smin effort Comment	3 days ago ▼ L3 % ▼ ▼ pitfall ▼
Using the '.*' form of import should be avoided - java.util.*. ••• © Code Smell • O Minor • O Open • Not assigned • 15min effort Comment	3 days ago * L3 % T * No tags *
All classes and interfaces must belong to a named package ❖ Code Smell ▼ ❖ Major ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago ▼ L345 % ▼ ▼ No tags ▼
Possible God Class (WMC=70, ATFD=9, TCC=31.818%) ···· Code Smell ▼	3 days ago ▼ L345 % ▼ ▼ No tags ▼
The class 'Alarm' has a Modified Cyclomatic Complexity of 3 (Highest = 20). Code Smell ▼	3 days ago ▼ L345 % ▼ ▼
The class 'Alarm' has a Standard Cyclomatic Complexity of 5 (Highest = 46). ••• Code Smell •	3 days ago ▼ L345 % ▼ ▼
Too many fields ···· Code Smell ▼	3 days ago ▼ L345 % ▼ ▼
Refactor this class so it has no more than 20 fields, rather than the 21 it currently has. ••• Code Smell •	3 days ago ▼ L5 % ▼ ▼ ▼
Header comments are required ··· Code Smell ▼ ① Minor ▼ ○ Open ▼ Not assigned ▼ 5min effort Comment	3 days ago ▼ L345 % ▼ ▼ No tags ▼
Move this left curly brace to the beginning of next line of code. Code Smell ▼ ○ Minor ▼ ○ Open ▼ Not assigned ▼ 1min effort Comment	3 days ago ▼ L5 % ▼ ▼

Type Javadoc comment is missing null tag ② Code Smell ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 30min effort Comment	3 days ago • L5 % ▼• No tags •
Parameter 'view' is not assigned and could be declared final ② Code Smell ▼ ③ Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago • L7 % T • No tags •
Public method and constructor comments are required Code Smell ▼ O Minor ▼ O Open ▼ Not assigned ▼ 5min effort Comment	3 days ago ▼ L11 % ▼▼ No tags ▼
Parameter 'alist' is not assigned and could be declared final ── Code Smell ▼ ② Minor ▼ ○ Open ▼ Not assigned ▼ 10min effort Comment	3 days ago 🕶 L7 % 🔻 🖜 No tags 🕶
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Make this line start after 2 spaces to indent the code consistently. ◆ Code Smell O Open Not assigned 1min effort Comment	3 days ago ▼ L7 % ▼ ▼
Make this line start after 4 spaces to indent the code consistently. *** Code Smell ODen Not assigned Thin effort Comment	3 days ago ▼ L8 % ▼ ▼
Found non-transient, non-static member. Please mark as transient or provide accessors. ••• Code Smell •	3 days ago ▼ L14 % ▼▼ No tags ▼
Variable 'buzzer' must be private and have accessor methods. ◆ Code Smell A Major Open Not assigned 10min effort Comment	3 days ago ▼ L14 % ▼▼ No tags ▼
Field comments are required Code Smell One Not assigned Finite from Comment	3 days ago ▼ L14 % ▼ ▼ No tags ▼
Fields should be declared at the top of the class, before any method declarations, constructors, initializers or inner classes. © Code Smell Open Not assigned 10min effort Comment	3 days ago ▼ L14 % ▼▼ No tags ▼
Move this variable to comply with Java Code Conventions ⊕ Code Smell ▼ ⊙ Minor ▼ ○ Open ▼ Not assigned ▼ 5min effort Comment	3 days ago ▼ L14 % ▼▼ Sometion ▼
Instance variable definition in wrong order	3 days ago ▼ L14 % ▼ ▼ No tags ▼