

## first 1.0

java:Sonar way js:Sonar way xml:Sonar way 2020-07-29







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## 1. first

报告提供了项目指标的概要,显示了与项目质量相关的最重要的指标。如果需要获取更详细的信息,请登陆网站进一步查询。

报告的项目为first,生成时间为2020-07-29,使用的质量配置为 java:Sonar way js:Sonar way xml:Sonar way,共计 427条规则。

1.1. 概述

### 编码问题

Bug	可靠性修复工作
	A = .

2 25min

漏洞 安全修复工作

2 20min

 坏味道
 技术债务

 54
 8h32min

58	开启问题	58
问题	重开问题	0
1 3/2	确认问题	0
	误判问题	0
	不修复的问题	0
	已解决的问题	0
	已删除的问题	0
	阻断	0
	严重	5
	主要	23
	次要	30

提示

## 静态分析

项目规模

0



8511	行数	12580
代码行数	方法	839
1 0515.50	类	20
	文件	19
	目录	9
	重复行(%)	3.9

#### 复杂度

 2769
 文件
 184.6

 复杂度

#### 注释(%)

16.4 注释行数 1674 注释(%)

## 1.2. 问题分析

违反最多的规则TOP10	
Useless imports should be removed	6
Generic exceptions should never be thrown	6
String literals should not be duplicated	5
Collection.isEmpty() should be used to test for emptiness	5
The diamond operator ("<>") should be used	4
Composed "@RequestMapping" variants should be preferred	4
Local variables should not be declared and then immediately returned or thrown	3
Nested blocks of code should not be left empty	2
A "while" loop should be used instead of a "for" loop	2
Boolean expressions should not be gratuitous	2





违规最多的文件TOP5		
CustomerExample.java	11	
jquery-3.3.1.js	10	
UserController.java	10	
UserExample.java	10	
CustomerController.java	8	

复杂度最高的文件TOP5	
jquery-3.3.1.js	2537
UserExample.java	92
Customer Example. java	90
UserController.java	11
Customer.java	8

重复行最多的文件TOP5	
Customer Example. java	246
UserExample.java	246

## 1.3. 问题详情

规则 Useless imports should be removed



#### 规则描述

The imports part of a file should be handled by the Integrated Development Environment (IDE), not manually by the developer. Unused and useless imports should not occur if that is the case. Leaving them in reduces the code's readability, since their presence can be confusing. Noncompliant Code Example

package my.company;

import java.lang.String; always implicitly imported // Noncompliant; java.lang classes are

import my.company.SomeClass; // Noncompliant; same-package files are always implicitly imported

import java.ió.File; // Noncompliant; File is not used

import my.company2.SomeType;

import my.company2.SomeType; // Noncompliant; 'SomeType' is already imported

class ExampleClass {

public String someString; public SomeType something;

Exceptions

Imports for types mentioned in comments, such as Javadocs, are <u>ignor</u>ed.

文件名称	违规行
CustomerController.java	8, 11, 15, 16
HomeController.java	9
CustomerServiceImpl.java	9

规则

Generic exceptions should never be thrown



```
规则描述
                    Using such generic exceptions as Error, RuntimeException,
                    Throwable, and Exception prevents calling methods from handling true, system-generated exceptions differently than application-generated errors.

Noncompliant Code Example
                    public void foo(String bar) throws Throwable { // Noncompliant
throw new RuntimeException("My Message"); // Noncomplia
                                                                              // Noncompliant
                    Compliant Solution
                    public void foo(String bar) {
                     throw new MyOwnKuntimeException("My Message");
                    Exceptions
                    Generic exceptions in the signatures of overriding methods are
                    ignored, because overriding method has to follow signature of the
                    throw declaration
                    in the superclass. The issue will be raised on superclass declaration
                    of the method (or won't be raised at all if superclass is not part of
                    the
                    analysis).
                    @Override
                    public void myMethod() throws Exception {...}
                    Generic exceptions are also ignored in the signatures of methods
                    that make calls to methods that throw generic exceptions.
                    public void myOtherMethod throws Exception {
  doTheThing(); // this method throws Exception
                    See
                       MITRE, CWE-397 - Declaration of Throws for Generic Exception
                       CERT, ERR07-J. - Do not throw RuntimeException, Exception, or
                    Throwable
```

文件名称	违规行
CustomerExample.java	88, 95, 102
UserExample.java	88, 95, 102

规则 Collection.isEmpty() should be used to test for emptiness





```
Using Collection.size() to test for emptiness works, but using Collection.isEmpty() makes the code more readable and can be more performant. The time complexity of any isEmpty() method implementation should be O(1) whereas some implementations of size() can be O(n).

Noncompliant Code Example

if (myCollection.size() == 0) { // Noncompliant /* ... */ }

Compliant Solution

if (myCollection.isEmpty()) { /* ... */ }
```

文件名称	违规行
UserController.java	40
CustomerExample.java	49, 75
UserExample.java	49, 75

<mark>规则</mark> String literals should not be duplicated



```
规则描述
                          Duplicated string literals make the process of refactoring error-
                         prone, since you must be sure to update all occurrences.
On the other hand, constants can be referenced from many places, but only need to be updated in a single place.
Noncompliant Code Example
With the default threshold of 3:
                         public void run() {
  prepare("action1");
is duplicated 3 times
                                                                                  // Noncompliant - "action1"
                          execute("action1");
release("action1");
                         @SuppressWarning("all")
                                                                                       // Compliant -
                         annotations are excluded
                         private void method1() { /* ... */ }
@SuppressWarning("all")
private void method2() { /* ... */ }
                         public String method3(String a) {
                         System.out.println("'" + a + "'");
has less than 5 characters and is excluded
                                                                                      // Compliant - literal "'"
                                                                            // Compliant - literal "" has less
                          return "
                         than 5 characters and is excluded
                          Compliant Solution
                         private static final String ACTION_1 = "action1"; // Compliant
                         public void run() {
  prepare(ACTION_1);
  execute(ACTION_1);
  release(ACTION_1);
                                                                                    // Compliant
                          Exceptions
                          To prevent generating some false-positives, literals having less
                         than 5 characters are excluded.
文件名称
                                                                                        违规行
UserController.java
                                                                                        42, 68
CustomerExample.java
                                                                                        178, 308
UserExample.java
                                                                                        248
```

规则	Composed "@RequestMapping" variants should be preferred
נאטעאו	Composed whequestiviapping variants should be preferred



```
Spring framework 4.3 introduced variants of the @RequestMapping annotation to better represent the semantics of the annotated methods.
The use of @GetMapping, @PostMapping, @PutMapping, @PatchMapping and @DeleteMapping, should be preferred to the use of the raw @RequestMapping(method = RequestMethod.XYZ).
Noncompliant Code Example

@RequestMapping(path = "/greeting", method = RequestMethod.GET) // Noncompliant public Greeting greeting(@RequestParam(value = "name", defaultValue = "World") String name) {
...
}

Compliant Solution

@GetMapping(path = "/greeting") // Compliant public Greeting greeting(@RequestParam(value = "name", defaultValue = "World") String name) {
...
}

文件名称

基规行

UserController.java

32, 57, 85, 91
```

<mark>规则</mark> The diar	diamond operator ("<>") should be used		
规则描述  Java 7 introduced the diamond operator ( <> ) to reduce the verbosity of generics code. For instance, instead of having to declare a List 's type in both its declaration and its constructor, you can now simplify the constructor declaration with <> , and the compiler will infer the type. Note that this rule is automatically disabled when the project's sonar.java.source is lower than 7. Noncompliant Code Example  List <string> strings = new ArrayList<string>(); // Noncompliant Map<string,list<integer>&gt; map = new HashMap<string,list<integer>&gt;(); // Noncompliant  Compliant Solution  List<string> strings = new ArrayList&lt;&gt;(); Map<string,list<integer>&gt; map = new HashMap&lt;&gt;();</string,list<integer></string></string,list<integer></string,list<integer></string></string>			
文件名称		违规行	
CustomerExample.java 14, 71		14, 71	
UserExample.java 14, 71		14, 71	



规则 Local variables should not be declared and then immediately returned or thrown		
	Declaring a variable only to immediately return or throw it is a bad practice.  Some developers argue that the practice improves code readability, because it enables them to explicitly name what is being returned. However, this variable is an internal implementation detail that is not exposed to the callers of the method. The method name should be sufficient for callers to know exactly what will be returned.  Noncompliant Code Example	
	<pre>public long computeDurationInMilliseconds() {   long duration = (((hours * 60) + minutes) * 60 + seconds ) * 1000 ; return duration; }</pre>	
	<pre>public void doSomething() {    RuntimeException myException = new RuntimeException();    throw myException; } Compliant Solution</pre>	
public long computeDurationInMilliseconds() {     return (((hours * 60) + minutes) * 60 + seconds ) * 1000 ; }		
	public void doSomething() {    throw new RuntimeException(); }	
文件名称	违规行	

文件名称	违规行
CustomerExample.java	56
UserExample.java	56
UserServiceImpl.java	23

规则	Sections	of code should not be commented out	
规则描述	<u> </u>	Programmers should not comment out code as it bloats programs and reduces readability. Unused code should be deleted and can be retrieved from source control history if required. See	
		MISRA C:2004, 2.4 - Sections of code should not be "commented out".  MISRA C++:2008, 2-7-2 - Sections of code shall not be "commented out" using C-style comments.  MISRA C++:2008, 2-7-3 - Sections of code should not be "commented out" using C++ comments.  MISRA C:2012, Dir. 4.4 - Sections of code should not be "commented out"	



文件名称	违规行
CustomerController.java	33
UserController.java	62

<mark>规则</mark> A "while	A "while" loop should be used instead of a "for" loop		
When only the condition expression is defined in a for loop, the initialization and increment expressions are missing, a while loop should be used instead to increase readability. Note that this rule requires Node.js to be available during analysis.  Noncompliant Code Example		fined in a for loop, and as are missing, a rease readability. available during	
	for (;condition;) { /**/ }		
	Compliant Solution		
	while (condition) { /**/ }		
jquery-3.3.1.js 2100, 2108		2100, 2108	

规则 Standard outputs should not be used directly to log anything		
规则描述	描述 When logging a message there are several important requirements which must be fulfilled:	
	The user must be able to easily retrieve the logs The format of all logged message must be uniform to allow the log user to easily read the log Logged data must actually be recorded Sensitive data must only be logged securely	
	If a program directly writes to the standard outputs, there is absolutely no way to comply with those requirements. That's why defining and using a dedicated logger is highly recommended.  Noncompliant Code Example	
	System.out.println("My Message"); // Noncompliant	
	Compliant Solution	
	logger.log("My Message");	
	See	
	CERT, ERR02-J Prevent exceptions while logging data	
文件名称		违规行
CustomerContro	oller.java	47
UserController.java 98		98





规则 Dead stores should be removed 规则描述 A dead store happens when a local variable is assigned a value that is not read by any subsequent instruction. Calculating or retrieving a value only to then overwrite it or throw it away, could indicate a serious error in the code. Even if it's not an error, it is at best a waste of resources. Therefore all calculated values should be used. Noncompliant Code Example i = a + b; // Noncompliant; calculation result not used before value is overwritten i = compute(); **Compliant Solution** i = a + b; i += compute(); Exceptions This rule ignores initializations to -1, 0, 1, null, true, false and See MITRE, CWE-563 - Assignment to Variable without Use ('Unused Variable')
CERT, MSC13-C. - Detect and remove unused values
CERT, MSC56-J. - Detect and remove superfluous code and values

文件名称	违规行
CustomerServiceImpl.java	32, 38

ŧ	见贝」	Boolean expressions should not be gratuitous
1	עאטע	boolean expressions should not be gratuitous



```
规则描述
                   If a boolean expression doesn't change the evaluation of the
                   condition, then it is entirely unnecessary, and can be removed. If it
                   is gratuitous
                   because it does not match the programmer's intent, then it's a bug
and the expression should be fixed.
Noncompliant Code Example
                   a = true;
                   if (a) { // Noncompliant
                    doSomething();
                   if (b & amp; & amp; a) { // Noncompliant; "a" is always "true"
                    doSomething();
                   if (c \parallel !a) { // Noncompliant; "!a" is always "false" doSomething();
                   Compliant Solution
                   a = true;
                   if (foo(a)) {
                    doSomething();
                   if (b) {
                    doSomething();
                   if (c) {
                    doSomething();
                   See
                     MISRA C:2004, 13.7 - Boolean operations whose results are
                   invariant shall not be permitted.
                     MISRA C:2012, 14.3 - Controlling expressions shall not be
                   invariant
                      MITRE, CWE-571 - Expression is Always True
                      CERT, MSC12-C. - Detect and remove code that has no effect
                   or is never
                    executed
```

文件名称	违规行
jquery-3.3.1.js	7236, 7318

<mark>规则</mark> Throwable.printStackTrace(...) should not be called





规则描述	Throwable.printStackTrace() prints a T trace to some stream. By default that strea System.Err, which could inadvertently exp information. Loggers should be used instead to print have many advantages:	am pose sensitive
	Users are able to easily retrieve the logs The format of log messages is uniform browse the logs easily.	s. and allow users to
	This rule raises an issue when printStack arguments, i.e. when the stack trace is printstream.  Noncompliant Code Example	Trace is used without nted to the default
	try {     /* */ } catch(Exception e) {     e.printStackTrace();     // Noncompliant }	
	Compliant Solution	
	try {     /* */ } catch(Exception e) {     LOGGER.log("context", e); }	
	See	
	MITRE, CWE-489 - Leftover Debug Coo OWASP Top 10 2017 Category A3 - Sen	de sitive Data Exposure
文件名称		违规行
JBCrypt.java		16
CustomerController.java 51		51

规则 Source files should not have any duplicated blocks	
规则描述	An issue is created on a file as soon as there is at least one block of duplicated code on this file
文件名称	违规行
CustomerExample.java N/A	
UserExample.ja	N/A

规则	Unused local variables should be removed
----	--





规则描述	If a local variable is declared but not used should be removed. Doing so will improve developers will not wonder what the variable is used for. Noncompliant Code Example  public int numberOfMinutes(int hours) {   int seconds = 0; // seconds is never use return hours * 60; }  Compliant Solution  public int numberOfMinutes(int hours) {   return hours * 60; }	maintainability because
· · · · · · · · · · · · · · · · · · ·		注抑仁
<del>又什么</del> 你	almal iava	22.20
CustomerServic	eimpi.java	32, 38

规则	Nested k	blocks of code should not be left empty		
规则描述		Most of the time a block of code is empty when a piece of code is really missing. So such empty block must be either filled or removed.  Noncompliant Code Example		
for (va piece d		r (var i = 0; i < length; i++) {} // Empty on purpose or missing ece of code ?		
		Exceptions When a block contains a comment, this block is not considered to be empty. Moreover catch blocks are ignored.		
文件名称		违规行		
jquery-3.	3.1.js	709, 3109		

规则	Functions should not be defined inside loops
----	--





```
Defining a function inside of a loop can yield unexpected results. Such a function keeps references to the variables which are defined in outer scopes. All function instances created inside the loop therefore see the same values for these variables, which is probably not expected.

Noncompliant Code Example

var funs = [];
for (var i = 0; i < 13; i++) {
    funs[i] = function() { // Non-Compliant return i; };
} console.log(funs[0]()); // 13 instead of 0 console.log(funs[1]()); // 13 instead of 1 console.log(funs[2]()); // 13 instead of 3 ...

文件名称

这件名称

inum

in
```

规则 Redundant casts should not be used





```
规则描述
                      Unnecessary casting expressions make the code harder to read
                     and understánd.
                     Noncompliant Code Example
                     public void example() {
  for (Foo obj : (List < Foo > ) getFoos()) { // Noncompliant; cast
  unnecessary because List < Foo > is what's returned
                     public List<Foo> getFoos() {
                      return this.foos;
                      Compliant Solution
                     public void example() {
                      for (Foo obj : getFoos()) {
                       //...
                      }
                     public List<Foo> getFoos() {
                      return this.foos;
                      Exceptions
                      Casting may be required to distinguish the method to call in the
                     case of overloading:
                     class A {}
class B extends A{}
class C {
void fun(A a){}
void fun(B b){}
                      void foo() {
                        Bb = new B();
                        fun(b);
                       fun((A) b); //call the first method so cast is not redundant.
```

文件名称	违规行
CustomerController.java	69

规则 Utility classes should not have public constructors





```
Utility classes, which are collections of static members, are not meant to be instantiated. Even abstract utility classes, which can be extended, should not have public constructors.

Java adds an implicit public constructor to every class which does not define at least one explicitly. Hence, at least one non-public
规则描述
                             constructor
                             should be defined.

Noncompliant Code Example
                             class StringUtils { // Noncompliant
                               public static String concatenate(String s1, String s2) {
                                return s1 + s2;
                              Compliant Solution
                             class StringUtils { // Compliant
                               private StringUtils() {
  throw new IllegalStateException("Utility class");
                               public static String concatenate(String s1, String s2) {
                                return s1 + s2;
                              Exceptions
                             When class contains public static void main(String[] args) method it is not considered as utility class and will be ignored by
                             this
                             rule.
文件名称
                                                                                                     违规行
                                                                                                     5
JBCrypt.java
```

规则	Dead stores should be removed





#### 规则描述

A dead store happens when a local variable is assigned a value that is not read by any subsequent instruction. Calculating or retrieving a value

only to then overwrite it or throw it away, could indicate a serious error in the code. Even if it's not an error, it is at best a waste of

Therefore all calculated values should be used.

Noncompliant Code Example

i = a + b; // Noncompliant; calculation result not used before value is overwritten i = compute();

**Compliant Solution** 

i = a + b;

i += compute();

Exceptions

This rule ignores initializations to -1, 0, 1, null, undefined, true, false , [] and {}.

This rule also ignores variables declared with object destructuring using rest syntax (used to exclude some properties from object):

let {a, b, ...rest} = obj; // 'a' and 'b' are ok doSomething(rest);

let [x1, x2, x3] = arr; // but 'x1' is noncompliant, as omitting syntax can be used: "let [, x2, x3] = arr;" doSomething(x2, x3);

See

MITRE, CWE-563 - Assignment to Variable without Use

('Unused Variable')
CERT, MSC13-C. - Detect and remove unused values
CERT, MSC56-J. - Detect and remove superfluous code and values

文件名称	违规行
jquery-3.3.1.js	337

Strict equality operators should not be used with dissimilar types 规则





•	
文件名称	违规行
jquery-3.3.1.js	7318

规则 Extra semicolons should be removed





```
规则描述
                 Extra semicolons (;) are usually introduced by mistake, for
                 example because:
                   It was meant to be replaced by an actual statement, but this was
                 forgotten.
                   There was a typo which lead the semicolon to be doubled, i.e. ;;
                   There was a misunderstanding about where semicolons are
                 required or useful.
                 Noncompliant Code Example
                 var x = 1;; // Noncompliant
                 function foo() {
                 }; // Noncompliant
                 Compliant Solution
                 var x = 1;
                 function foo() {
                 See
                   MISRA C:2004, 14.3 - Before preprocessing, a null statement
                 shall only occur on a line by itself; it may be followed by a
                 comment provided that
                  the first character following the null statement is a white-space
                 character.
                   MISRA C++:2008, 6-2-3 - Before preprocessing, a null statement
                 shall only occur on a line by itself; it may be followed by a comment, provided
                  that the first character following the null statement is a white-
                 space character.
                    CERT, MSC12-C. - Detect and remove code that has no effect
                 or is never
                  executed
                    CERT, MSC51-J. - Do not place a semicolon immediately
                 following an if, for,
                  or while condition
                    CERT, EXP15-C. - Do not place a semicolon on the same line as
                 an if, for,
                  or while statement
```

文件名称	违规行
jquery-3.3.1.js	2807

规则 Non-serializable objects should not be stored in "HttpSession" objects



规则描述	If you have no intention of writting an HttpSession object to then storing non- serializable objects in it may not seem like a big deal. But whether or not you explicitly serialize session, it may be written to disk anyway, as the server managits memory use in a process called "passivation". Further, some servers automatically write their active sessions out to file at shutdow & amp; deserialize any such sessions at startup.  The point is, that even though HttpSession does not extend Serializable, you must nonetheless assume that it will be serialized, and understand that if you've stored non-serializable objects in the session, errors will result.  Noncompliant Code Example		
	public class Address { // }		
	// HttpSession session = request.getSession session.setAttribute("address", new Addre Address isn't serializable	ession session = request.getSession(); n.setAttribute("address", new Address()); // Noncompliant; ess isn't serializable	
	See		
	MITRE, CWE-579 - J2EE Bad Practices: Non-serializable Object Stored in Session		
立件夕称		违规行	
UserController.ja	ava	66	
223.03.11.011]	<u> </u>	1	

## 1.4. 质量配置

<mark>质量配置</mark> java:Sonar way Bug:101 漏洞:28 坏味道:195			
规则		类型	违规级别
	not call same-class methods e "@Transactional" values	Bug	阻断
Methods "wait( should not be ca	)", "notify()" and "notifyAll()" lled on Thread instances	Bug	阻断
"PreparedStatem should be called	ent" and "ResultSet" methods with valid indices	Bug	阻断
"wait()" should "Thread.sleep()	be used instead of " when a lock is held	Bug	阻断
Printf-style formation	at strings should not lead to avior at runtime	Bug	阻断
"@SpringBootApplication" and "@ComponentScan" should not be used in the default package		Bug	阻断
"@Controller" cla "@SessionAttribu their "SessionSta	utes" must call "setComplete"	on Bug	阻断



Loons about direct by infinite	D	70 Nr
Loops should not be infinite	Bug	阻断
"wait" should not be called when multiple locks are held	Bug	阻断
Double-checked locking should not be used	Bug	阻断
Resources should be closed	Bug	阻断
Locks should be released	Bug	严重
"Random" objects should be reused	Bug	严重
Dependencies should not have "system" scope	Bug	严重
The signature of "finalize()" should match that of "Object.finalize()"	Bug	严重
"runFinalizersOnExit" should not be called	Bug	严重
"ScheduledThreadPoolExecutor" should not have 0 core threads	Bug	严重
"super.finalize()" should be called at the end of "Object.finalize()" implementations	Bug	严重
Zero should not be a possible denominator	Bug	严重
Getters and setters should access the expected fields	Bug	严重
"toString()" and "clone()" methods should not return null	Bug	主要
Servlets should not have mutable instance fields	Bug	主要
Value-based classes should not be used for locking	Bug	主要
Conditionally executed blocks should be reachable	Bug	主要
"DefaultMessageListenerContainer" instances should not drop messages during restarts	Bug	主要
Reflection should not be used to check non- runtime annotations	Bug	主要
"SingleConnectionFactory" instances should be set to "reconnectOnException"	Bug	主要
"hashCode" and "toString" should not be called on array instances	Bug	主要
Collections should not be passed as arguments to their own methods	Bug	主要
"BigDecimal(double)" should not be used	Bug	主要
Jump statements should not occur in "finally" blocks	Bug	主要
Non-public methods should not be "@Transactional"	Bug	主要
Invalid "Date" values should not be used	Bug	主要
Non-serializable classes should not be written	Bug	主要
Optional value should only be accessed after calling isPresent()	Bug	主要
Blocks should be synchronized on "private final" fields	Bug	主要
"notifyAll" should be used	Bug	主要
".equals()" should not be used to test the values of "Atomic" classes	Bug	主要



Return values from functions without side effects should not be ignored  Non-serializable objects should not be stored in "HttpSession" objects  "InterruptedException" should not be ignored Bug 主要 Silly equality checks should not be made Bug 主要	
"HttpSession" objects       graph of the session objects       Bug       主要         Silly equality checks should not be made       Bug       主要	
Silly equality checks should not be made Bug 主要	
Dissimilar primitive wrappers should not be used with the ternary operator without explicit casting	
"wait", "notify" and "notifyAll" should only be called when a lock is obviously held on an object 主要	
"Double.longBitsToDouble" should not be used for "int"	
Values should not be uselessly incremented Bug 主要	
Null pointers should not be dereferenced Bug 主要	
Expressions used in "assert" should not produce side effects	
Classes extending java.lang.Thread should override the "run" method Bug 主要	
Loop conditions should be true at least once Bug 主要	
A "for" loop update clause should move the counter in the right direction	
The Object.finalize() method should not be called Bug 主要	
Intermediate Stream methods should not be left unused 主要	
Consumed Stream pipelines should not be reused Bug 主要	
Variables should not be self-assigned Bug 主要	
Inappropriate regular expressions should not be used 主要	
"=+" should not be used instead of "+=" Bug 主要	
Loops with at most one iteration should be refactored	
Classes should not be compared by name Bug 主要	
Identical expressions should not be used on both sides of a binary operator 主要	
Thread.run() should not be called directly Bug 主要	
"null" should not be used with "Optional" Bug 主要	
"read" and "readLine" return values should be used 主要	
Methods should not be named "tostring", Bug 主要 "由shcode" or "equal"	
Non-thread-safe fields should not be static Bug 主要	
Getters and setters should be synchronized in pairs	
"StringBuilder" and "StringBuffer" should not be instantiated with a character	
Unary prefix operators should not be repeated Bug 主要	
Week Year ("YYYY") should not be used for date  Bug  主要	
"equals" method overrides should accept	



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Exception should not be created without being thrown	Bug	主要
Collection sizes and array length comparisons should make sense	Bug	主要
Synchronization should not be based on Strings or boxed primitives	Bug	主要
Related "if/else if" statements should not have the same condition	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要
"Iterator.hasNext()" should not call "Iterator.next()"	Bug	主要
Raw byte values should not be used in bitwise operations in combination with shifts	Bug	主要
Custom serialization method signatures should meet requirements	Bug	主要
"Externalizable" classes should have no- arguments constructors	Bug	主要
"iterator" should not return "this"	Bug	主要
Child class methods named for parent class methods should be overrides	Bug	主要
Inappropriate "Collection" calls should not be made	Bug	主要
"compareTo" should not be overloaded	Bug	主要
Map values should not be replaced unconditionally	Bug	主要
"getClass" should not be used for synchronization	Bug	主要
"compareTo" results should not be checked for specific values	Bug	次要
Double Brace Initialization should not be used	Bug	次要
Boxing and unboxing should not be immediately reversed	Bug	次要
"Iterator.next()" methods should throw "NoSuchElementException"	Bug	次要
"@NonNull" values should not be set to null	Bug	次要
Neither "Math.abs" nor negation should be used on numbers that could be "MIN_VALUE"	Bug	次要
The value returned from a stream read should be checked	Bug	次要
Method parameters, caught exceptions and foreach variables' initial values should not be ignored	Bug	次要
"equals(Object obj)" and "hashCode()" should be overridden in pairs	Bug	次要
"Serializable" inner classes of non-serializable classes should be "static"	Bug	次要
Math operands should be cast before assignment	Bug	次要
Ints and longs should not be shifted by zero or more than their number of bits-1	Bug	次要
"compareTo" should not return "Integer.MIN_VALUE"	Bug	次要



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The non-serializable super class of a "Serializable" class should have a no-argument constructor	Bug	次要
"toArray" should be passed an array of the proper type	Bug	次要
"equals(Object obj)" should test argument type	Bug	次要
Databases should be password-protected	漏洞	阻断
Neither DES (Data Encryption Standard) nor DESede (3DES) should be used	漏洞	阻断
Cryptographic keys should not be too short	漏洞	阻断
LDAP deserialization should be disabled	漏洞	阻断
"HostnameVerifier.verify" should not always return true	漏洞	阻断
Credentials should not be hard-coded	漏洞	阻断
Default EJB interceptors should be declared in "ejb-jar.xml"	漏洞	阻断
Persistent entities should not be used as arguments of "@RequestMapping" methods	漏洞	严重
Defined filters should be used	漏洞	严重
Cryptographic RSA algorithms should always incorporate OAEP (Optimal Asymmetric Encryption Padding)	漏洞	严重
XML transformers should be secured	漏洞	严重
"HttpServletRequest.getRequestedSessionId()" should not be used	漏洞	严重
AES encryption algorithm should be used with secured mode	漏洞	严重
LDAP connections should be authenticated	漏洞	严重
"File.createTempFile" should not be used to create a directory	漏洞	严重
Web applications should not have a "main" method	漏洞	严重
SMTP SSL connection should check server identity	漏洞	严重
SQL binding mechanisms should be used	漏洞	严重
"SecureRandom" seeds should not be predictable	漏洞	严重
TrustManagers should not blindly accept any certificates	漏洞	主要
Weak SSL protocols should not be used	漏洞	主要
Throwable.printStackTrace() should not be called	漏洞	次要
Mutable fields should not be "public static"	漏洞	次要
"public static" fields should be constant	漏洞	次要
Exceptions should not be thrown from servlet methods	漏洞	次要
Class variable fields should not have public accessibility	漏洞	次要
"enum" fields should not be publicly mutable	漏洞	次要
Return values should not be ignored when they contain the operation status code	漏洞	次要



Child class fields should not shadow parent class fields  JUnit framework methods should be declared properly  Assertions should be complete  "clone" should not be overridden  "switch" statements should not contain non-case labels  Methods returns should not be invariant  Silly bit operations should not be performed  Switch cases should end with an unconditional "break" statement  Methods and field names should not be the same or differ only by capitalization  JUnit test cases should call super methods  TestCases should contain tests  Future keywords should not be used as names  Short-circuit logic should be used in boolean contexts  Constant names should comply with a naming 坏味道  严重
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Short-circuit logic should be used in boolean contexts  Constant names should comply with a naming 坏味道  「严重
contexts Constant names should comply with a naming 坏味道 严重
"default" clauses should be last
IllegalMonitorStateException should not be
Cognitive Complexity of methods should not be
Package declaration should match source file
Null should not be returned from a "Boolean"
Instance methods should not write to "static"
String offset-based methods should be preferred 坏味道 严重 for finding substrings from offsets
"indexOf" checks should not be for positive
Factory method injection should be used in
"Object.finalize()" should remain protected
"Cloneables" should implement "clone" 坏味道 严重
Methods should not be empty
"Object.wait()" and "Condition.await()" should
"equals" method parameters should not be
Classes should not access their own subclasses
Exceptions should not be thrown in finally blocks 坏味道 严重
Method overrides should not change contracts



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坏味道	严重
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Ternary operators should not be nested	坏味道	主要
Inner class calls to super class methods should be	· · · · —	主要
unambiguous		
Nullness of parameters should be guaranteed	坏味道	主要
Only static class initializers should be used	坏味道	主要
Unused method parameters should be removed	坏味道	主要
Unused "private" fields should be removed	坏味道	主要
Collapsible "if" statements should be merged	坏味道	主要
Unused labels should be removed	坏味道	主要
Throwable and Error should not be caught	坏味道	主要
Printf-style format strings should be used correctly	坏味道	主要
"Integer.toHexString" should not be used to build hexadecimal strings	坏味道	主要
Labels should not be used	坏味道	主要
Constructors should not be used to instantiate "String", "BigInteger", "BigDecimal" and primitive-wrapper classes	坏味道	主要
Enumeration should not be implemented	坏味道	主要
Empty arrays and collections should be returned instead of null	坏味道	主要
Objects should not be created only to "getClass"	坏味道	主要
Primitives should not be boxed just for "String" conversion	坏味道	主要
"@Override" should be used on overriding and implementing methods	坏味道	主要
"entrySet()" should be iterated when both the key and value are needed	坏味道	主要
Assignments should not be made from within sub-expressions	坏味道	主要
"Preconditions" and logging arguments should not require evaluation	坏味道	主要
Java 8's "Files.exists" should not be used	坏味道	主要
Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Sections of code should not be commented out	坏味道	主要
"Map.get" and value test should be replaced with single method call	坏味道	主要
"Arrays.stream" should be used for primitive arrays	坏味道	主要
Non-constructor methods should not have the same name as the enclosing class	坏味道	主要
"Threads" should not be used where "Runnables" are expected	坏味道	主要
"readObject" should not be "synchronized"	坏味道	主要
"for" loop stop conditions should be invariant	坏味道	主要
Inheritance tree of classes should not be too deep	坏味道	主要
Unused "private" classes should be removed	坏味道	主要



A field should not duplicate the name of its containing class	坏味道	主要
Dead stores should be removed	坏味道	主要
"DateUtils.truncate" from Apache Commons Lang library should not be used	坏味道	主要
Local variables should not shadow class fields	坏味道	主要
"Thread.sleep" should not be used in tests	坏味道	主要
Anonymous inner classes containing only one method should become lambdas	坏味道	主要
Tests should not be ignored	坏味道	主要
Deprecated elements should have both the annotation and the Javadoc tag	坏味道	主要
"Object.wait()" should never be called on objects that implement "java.util.concurrent.locks.Condition"	坏味道	主要
Silly math should not be performed	坏味道	主要
Standard outputs should not be used directly to log anything	坏味道	主要
"writeObject" should not be the only "synchronized" code in a class	坏味道	主要
Classes named like "Exception" should extend "Exception" or a subclass	坏味道	主要
Static fields should not be updated in constructors	坏味道	主要
Exception types should not be tested using "instanceof" in catch blocks	坏味道	主要
Classes from "sun.*" packages should not be used	坏味道	主要
String function use should be optimized for single characters	坏味道	主要
Assignments should not be redundant	坏味道	主要
"java.nio.Files#delete" should be preferred	坏味道	主要
Methods should not have identical implementations	坏味道	主要
Asserts should not be used to check the parameters of a public method	坏味道	主要
Source files should not have any duplicated blocks	坏味道	主要
Field names should comply with a naming convention	坏味道	次要
Interface names should comply with a naming convention	坏味道	次要
Type parameter names should comply with a naming convention	坏味道	次要
Local variable and method parameter names should comply with a naming convention	坏味道	次要
Package names should comply with a naming convention	坏味道	次要
A "while" loop should be used instead of a "for" loop	坏味道	次要
"Collections.EMPTY_LIST", "EMPTY_MAP", and "EMPTY_SET" should not be used	坏味道	次要



Useless imports should be removed	坏味道	次要
Return of boolean expressions should not be	坏味道	次要
wrapped into an "if-then-else" statement		700
Boolean literals should not be redundant	坏味道	次要
Local variables should not be declared and then immediately returned or thrown	坏味道	次要
Deprecated "\${pom}" properties should not be used	坏味道	次要
Unused local variables should be removed	坏味道	次要
Catches should be combined	坏味道	次要
Null checks should not be used with "instanceof"	坏味道	次要
Methods of "Random" that return floating point values should not be used in random integer generation	坏味道	次要
Public constants and fields initialized at declaration should be "static final" rather than merely "final"	坏味道	次要
Overriding methods should do more than simply call the same method in the super class	坏味道	次要
Static non-final field names should comply with a naming convention	坏味道	次要
Classes that override "clone" should be "Cloneable" and call "super.clone()"	坏味道	次要
Case insensitive string comparisons should be made without intermediate upper or lower casing	坏味道	次要
Primitive wrappers should not be instantiated only for "toString" or "compareTo" calls	坏味道	次要
Collection.isEmpty() should be used to test for emptiness	坏味道	次要
String.valueOf() should not be appended to a String	坏味道	次要
Method names should comply with a naming convention	坏味道	次要
Class names should comply with a naming convention	坏味道	次要
Exception classes should be immutable	坏味道	次要
Parsing should be used to convert "Strings" to primitives	坏味道	次要
Multiple variables should not be declared on the same line	坏味道	次要
"switch" statements should have at least 3 "case" clauses	坏味道	次要
Strings should not be concatenated using '+' in a loop	坏味道	次要
Maps with keys that are enum values should be replaced with EnumMap	坏味道	次要
"catch" clauses should do more than rethrow	坏味道	次要
Nested "enum"s should not be declared static	坏味道	次要
"equals(Object obj)" should be overridden along with the "compareTo(T obj)" method	坏味道	次要



Arrays should not be created for varargs parameters		11326	<del></del>
parameters  Methods should not return constants The default unnamed package should not be used  Declarations should use Java collection interfaces such as "List" rather than specific implementation classes such as "LinkedList"  Jump statements should not be redundant Boolean checks should not be inverted "close()" calls should not be redundant "rindexOf" checks should use a start position Redundant casts should not be used "ThreadLocal.withInitial" should be preferred "@Deprecated" code should not be used "Abstract classes without fields should be converted to interfaces Lambdas should be replaced with method references "toString()" should never be called on a String object Parentheses should be removed from a single lambda input parameter when its type is inferred Annotation repetitions should not be wrapped JUnit rules should be used Loops should not contain more than a single '坏味道' 次要  JUnit rules should not contain more than a single '坏味道' 次要  Typrivate" methods called only by inner classes should be moved to those classes Fields in non-serializable classes should not be "transient"  Composed "@RequestMapping" variants should be '坏味道' 次要  "write(byte[],int,int)" should be overridden  'ኡሑ፱ 'ኡሑ፱ 'ኡሑ፱ 'ኡሑ፱ 'ኡሑ፱ 'ኡሑ፱ 'ኡሑ፱ 'ኡሑ፱	Private fields only used as local variables in methods should become local variables	坏味道 	次要
The default unnamed package should not be used Declarations should use Java collection interfaces such as "List" rather than specific implementation classes such as "LinkedList"  Jump statements should not be redundant Society "Calls should not be inverted "Close()" calls should not be redundant "indexOf" checks should use a start position Redundant casts should not be used "ThreadLocal withInitial" should be preferred "@Deprecated" code should not be used "ThreadLocal withInitial" should be preferred "@Deprecated" code should not be used Abstract classes without fields should be converted to interfaces Lambdas should be replaced with method references Lambdas should never be called on a String object Parentheses should never be called on a String object Parentheses should be removed from a single lambda input parameter when its type is inferred Annotation repetitions should not be wrapped JUnit rules should be used Lamdbas containing only one statement should not nest this statement in a block Loops should not contain more than a single break" or "continue" statement Abstract methods should not be redundant "private" methods called only by inner classes should be moved to those classes Fields in non-serializable classes should not be "transient" Composed "@RequestMapping" variants should be preferred Empty statements should be overridden "weit (byte[],int,int)" should be overridden "weit (byte[],int,int)" should be overridden "ye write(byte[],int,int)" should be overridden "ye write(byte[],int,int)" should be overridden	Arrays should not be created for varargs parameters	坏味道 	次要
Declarations should use Java collection interfaces such as "List" rather than specific implementation classes such as "LinkedList"  Jump statements should not be redundant	Methods should not return constants	坏味道	次要
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Boolean checks should not be inverted	Declarations should use Java collection interfaces such as "List" rather than specific implementation classes such as "LinkedList"	坏味道	次要
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"indexOf" checks should use a start position	Boolean checks should not be inverted	坏味道	次要
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"@Deprecated" code should not be used	Redundant casts should not be used	坏味道	次要
Abstract classes without fields should be converted to interfaces  Lambdas should be replaced with method references  "toString()" should never be called on a String object  Parentheses should be removed from a single lambda input parameter when its type is inferred  Annotation repetitions should not be wrapped 坏味道 次要  JUnit rules should be used 坏味道 次要  Lamdbas containing only one statement should not not st this statement in a block Loops should not contain more than a single "break" or "continue" statement  Abstract methods should not be redundant 坏味道 次要  "private" methods called only by inner classes should be moved to those classes  Fields in non-serializable classes should not be "transient"  Composed "@RequestMapping" variants should be preferred  Empty statements should be removed 坏味道 次要  "write(byte[],int,int)" should be overridden 坏味道 次要  "write(byte[],int,int)" should be overridden	"ThreadLocal.withInitial" should be preferred	坏味道	次要
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Parentheses should be removed from a single lambda input parameter when its type is inferred   本味道   次要   大味道   大枣   大枣   大枣   大枣   大枣   大枣   大枣   大	Lambdas should be replaced with method references	坏味道	次要
Annotation repetitions should not be wrapped 坏味道 次要  JUnit rules should be used 坏味道 次要  Lamdbas containing only one statement should not nest this statement in a block  Loops should not contain more than a single "break" or "continue" statement  Abstract methods should not be redundant 坏味道 次要  "private" methods called only by inner classes should be moved to those classes  Fields in non-serializable classes should not be "transient"  Composed "@RequestMapping" variants should be preferred  Empty statements should be removed 坏味道 次要  "write(byte[],int,int)" should be overridden 坏味道 次要	"toString()" should never be called on a String object	坏味道	次要
Annotation repetitions should not be wrapped 坏味道 次要  JUnit rules should be used 坏味道 次要  Lamdbas containing only one statement should not nest this statement in a block  Loops should not contain more than a single "break" or "continue" statement  Abstract methods should not be redundant 坏味道 次要  "private" methods called only by inner classes should be moved to those classes  Fields in non-serializable classes should not be "transient"  Composed "@RequestMapping" variants should be preferred  Empty statements should be removed 坏味道 次要  "write(byte[],int,int)" should be overridden 坏味道 次要	Parentheses should be removed from a single lambda input parameter when its type is inferred	坏味道	次要
Lamdbas containing only one statement should not nest this statement in a block Loops should not contain more than a single "break" or "continue" statement  Abstract methods should not be redundant 坏味道 次要 "private" methods called only by inner classes should be moved to those classes Fields in non-serializable classes should not be "transient"  Composed "@RequestMapping" variants should be preferred  Empty statements should be removed 坏味道 次要 次要 次要 次要 次要 次要 次要 次要 次要 次字	Annotation repetitions should not be wrapped	坏味道	次要
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"private" methods called only by inner classes should be moved to those classes坏味道次要Fields in non-serializable classes should not be "transient"坏味道次要Composed "@RequestMapping" variants should be preferred坏味道次要Empty statements should be removed "write(byte[],int,int)" should be overridden坏味道次要	Loops should not contain more than a single "break" or "continue" statement	坏味道	次要
Fields in non-serializable classes should not be "transient"	Abstract methods should not be redundant	坏味道	次要
"transient"大味道次要Composed "@RequestMapping" variants should be preferred坏味道次要Empty statements should be removed "write(byte[],int,int)" should be overridden坏味道次要	"private" methods called only by inner classes should be moved to those classes	坏味道	次要
be preferred Empty statements should be removed write(byte[],int,int)" should be overridden  「	Fields in non-serializable classes should not be "transient"	坏味道	次要
"write(byte[],int,int)" should be overridden	Composed "@RequestMapping" variants should be preferred	坏味道	次要
	Empty statements should be removed	坏味道	次要
Nested code blocks should not be used	"write(byte[],int,int)" should be overridden	坏味道	次要
	Nested code blocks should not be used	坏味道	次要
	Array designators "[]" should be on the type, not the variable	坏味道	次要
URIs should not be hardcoded	URIs should not be hardcoded	坏味道	次要
"finalize" should not set fields to "null" 坏味道 次要	"finalize" should not set fields to "null"	坏味道	次要
Array designators "[]" should be located after the type in method signatures 次要	Array designators "[]" should be located after the type in method signatures	坏味道	次要
Subclasses that add fields should override	Subclasses that add fields should override "equals"	坏味道	次要
"throws" declarations should not be superfluous 坏味道 次要	"throws" declarations should not be superfluous	坏味道	次要





The diamond operator ("<>") should be used	坏味道	次要
Modifiers should be declared in the correct order	坏味道	次要
"Stream" call chains should be simplified when possible	坏味道	次要
Functional Interfaces should be as specialised as possible	坏味道	次要
Packages containing only "package-info.java" should be removed	坏味道	次要
Classes should not be empty	坏味道	次要
Track uses of "TODO" tags	坏味道	提示
Deprecated code should be removed	坏味道	提示

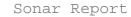
<mark>质量配置</mark> js:Sonar way Bug:41 漏洞:5 坏	<b>味道:43</b>	
规则	类型	违规级别
Callbacks of array methods should have return statements	Bug	阻断
Loops should not be infinite	Bug	阻断
"yield" expressions should not be used outside generators	Bug	阻断
"in" should not be used with primitive types	Bug	严重
Function calls should not pass extra arguments	Bug	严重
"Symbol" should not be used as a constructor	Bug	严重
Results of "in" and "instanceof" should be negated rather than operands	Bug	严重
"super()" should be invoked appropriately	Bug	严重
Destructuring patterns should not be empty	Bug	主要
Conditionally executed blocks should be reachable	Bug	主要
Jump statements should not occur in "finally" blocks	Bug	主要
Property names should not be duplicated within a class or object literal	Bug	主要
Return values from functions without side effects should not be ignored	Bug	主要
"NaN" should not be used in comparisons	Bug	主要
Generators should "yield" something	Bug	主要
Function argument names should be unique	Bug	主要
Related "if/else if" statements and "cases" in a "switch" should not have the same condition	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要
The output of functions that don't return anything should not be used	Bug	主要
Values should not be uselessly incremented	Bug	主要
Jump statements should not be followed by dead code	Bug	主要



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Special identifiers should not be bound or assigned	Bug	主要
Properties of variables with "null" or "undefined" values should not be accessed	Bug	主要
A "for" loop update clause should move the counter in the right direction	Bug	主要
Variables should not be self-assigned	Bug	主要
Non-empty statements should change control flow or have at least one side-effect	Bug	主要
Calls should not be made to non-callable values	Bug	主要
Non-existent operators '=+', '=-' and '=!' should not be used	Bug	主要
"new" operators should be used with functions	Bug	主要
Identical expressions should not be used on both sides of a binary operator	Bug	主要
Array-mutating methods should not be used misleadingly	Bug	主要
Strict equality operators should not be used with dissimilar types	Bug	主要
Setters should not return values	Bug	主要
Comma and logical OR operators should not be used in switch cases	Bug	主要
Collection elements should not be replaced unconditionally	Bug	主要
Bitwise operators should not be used in boolean contexts	Bug	主要
Attempts should not be made to update "const" variables	Bug	主要
Errors should not be created without being thrown	Bug	主要
Collection sizes and array length comparisons should make sense	Bug	主要
"delete" should be used only with object properties	Bug	次要
"with" statements should not be used	Bug	次要
Cross-document messaging domains should be carefully restricted	漏洞	严重
Code should not be dynamically injected and executed	漏洞	严重
Function constructors should not be used	漏洞	严重
Debugger statements should not be used	漏洞	次要
"alert()" should not be used	漏洞	次要
Octal values should not be used	坏味道	阻断
Variables should be declared explicitly	坏味道	阻断
"future reserved words" should not be used as identifiers	坏味道	阻断
"switch" statements should not contain non-case labels	坏味道	阻断
Function returns should not be invariant	坏味道	阻断



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Switch cases should end with an unconditional "break" statement	坏味道	阻断
Conditionals should start on new lines	坏味道	严重
A conditionally executed single line should be denoted by indentation	坏味道	严重
Equality operators should not be used in "for" loop termination conditions	坏味道	严重
Boolean expressions should not be gratuitous	坏味道	主要
Redundant pairs of parentheses should be removed	坏味道	主要
Functions should not be called both with and without "new"	坏味道	主要
Comma operator should not be used	坏味道	主要
Multiline blocks should be enclosed in curly braces	坏味道	主要
Labels should not be used	坏味道	主要
"switch" statements should not have too many "case" clauses	坏味道	主要
"indexOf" checks should not be for positive numbers	坏味道	主要
Arguments to built-in functions should match documented types	坏味道	主要
Nested blocks of code should not be left empty	坏味道	主要
Dead stores should be removed	坏味道	主要
Array indexes should be numeric	坏味道	主要
Variables and functions should not be redeclared	坏味道	主要
"delete" should not be used on arrays	坏味道	主要
Function parameters with default values should be last	坏味道	主要
Jump statements should not be used unconditionally	坏味道	主要
Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Assignments should not be redundant	坏味道	主要
Functions should not be defined inside loops	坏味道	主要
Collection and array contents should be used	坏味道	主要
Default export names and file names should match	坏味道	次要
Boolean checks should not be inverted	坏味道	次要
A "while" loop should be used instead of a "for" loop	坏味道	次要
Function call arguments should not start on new lines	坏味道	次要
Extra semicolons should be removed	坏味道	次要
Return of boolean expressions should not be wrapped into an "if-then-else" statement	坏味道	次要
Unnecessary imports should be removed	坏味道	次要
Wrapper objects should not be used for primitive types	坏味道	次要





Unary operators "+" and "-" should not be used with objects	坏味道	次要
Multiline string literals should not be used	坏味道	次要
"switch" statements should have at least 3 "case" clauses	坏味道	次要
The global "this" object should not be used	坏味道	次要
"catch" clauses should do more than rethrow	坏味道	次要
Unused local variables and functions should be removed	坏味道	次要

first

质量配置	xml:Sonar way Bug:1		
规则		类型	违规级别
XML files contain with " xml" cha</td <td>ning a prolog header should start</td> <td>Bug</td> <td>严重</td>	ning a prolog header should start	Bug	严重