OS   Open Source /   JDK 9   ⑄ master ❓   November 13, 2016, 1:10 PM   Version 1.0

Overview   Issues   Measures   Code   Activity   ☆ ⌂

Bulk Change   ↑ ↓ to select issues   ← → to navigate   ↻ **6 / 223,231** issues

Filters	**Clear All Filters**

jdk / src/demo/share/applets/ArcTest/ArcTest.java

Display Mode

Issues	Effort

☑ **1 duplicated blocks of code must be removed.** •••   2 years ago ▾ 🔗 ▼ ▾
⊗ Code Smell   Major   Open ▾ Not assigned ▾ 20min effort Comment   🏷 pitfall ▾

∨ **Type**

🐛 Bug	6.7k
🔒 Vulnerability	11k
⊗ Code Smell	205k

☑ **Extract the assignment out of this expression.** •••   2 years ago ▾ L63 🔗 ▼ ▾
🐛 Bug   Major   Open ▾ Not assigned ▾ 5min effort Comment   🏷 cwe, misra ▾

∨ **Severity**   **Clear**

☑ **Remove this call to "exit" or ensure it is really required.** •••   2 years ago ▾ L85 🔗 ▼ ▾
⊗ Code Smell   Blocker   Open ▾ Not assigned ▾ 30min effort Comment   🏷 cwe, suspicious ▾

Blocker	2.1k	Minor	122k
Critical	43k	Info	3.2k
Major	178k		

☑ **"font" is the name of a field in "Component".** •••   2 years ago ▾ L117 🔗 ▼ ▾
⊗ Code Smell   Blocker   Open ▾ Not assigned ▾ 5min effort Comment   🏷 confusing ▾

☑ **Extract the assignment out of this expression.** •••   2 years ago ▾ L174 🔗 ▼ ▾
🐛 Bug   Major   Open ▾ Not assigned ▾ 5min effort Comment   🏷 cwe, misra ▾

∨ **Resolution**

☑ **Extract the assignment out of this expression.** •••   2 years ago ▾ L175 🔗 ▼ ▾
🐛 Bug   Major   Open ▾ Not assigned ▾ 5min effort Comment   🏷 cwe, misra ▾

Unresolved	223k	Fixed	412

Assignments should not be made from within sub-expressions   _ ↙ ✖

⊗ Code Smell   Major   🏷 cert, cwe, misra, suspicious   Available Since August 30, 2013   Constant/issue: 5min   🔗 squid:AssignmentInSubExpressionCheck

Assignments within sub-expressions are hard to spot and therefore make the code less readable. Ideally, sub-expressions should not have side-effects.

Noncompliant Code Example

```
if ((str = cont.substring(pos1, pos2)).isEmpty()) {  // Noncompliant
  //...
```

Compliant Solution

```
str = cont.substring(pos1, pos2);
if (str.isEmpty()) {
  //...
```

Exceptions

Assignments in `while` statement conditions, and assignments enclosed in relational expressions are ignored.

```
BufferedReader br = new BufferedReader(/* ... */);
String line;
while ((line = br.readLine()) != null) {...}
```

Chained assignments, including compound assignments, are ignored.

```
int i = j = 0;
int k = (j += 1);
result = (bresult = new byte[len]);
```
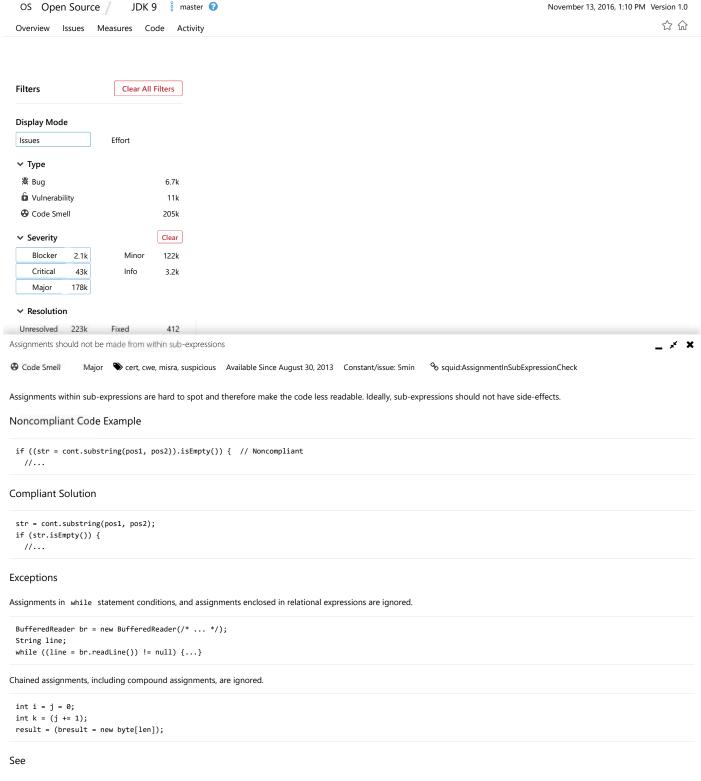
See

- MISRA C:2004, 13.1 - Assignment operators shall not be used in expressions that yield a Boolean value
- MISRA C++:2008, 6-2-1 - Assignment operators shall not be used in sub-expressions
- MISRA C:2012, 13.4 - The result of an assignment operator should not be used
- MITRE, CWE-481 - Assigning instead of Comparing
- CERT, EXP45-C. - Do not perform assignments in selection statements
- CERT, EXP51-J. - Do not perform assignments in conditional expressions
- CERT, EXP19-CPP. - Do not perform assignments in conditional expressions

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⌄ **Resolution**

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