checkstyle-code-arguable

VariableDeclarationUsageDistance

https://checkstyle.sourceforge.io/checks/coding/variabledeclarationusagedista
nce.html

OverloadMethodsDeclarationOrder

```
<module name="Checker">
  <module name="TreeWalker">
     <module name="OverloadMethodsDeclarationOrder"/>
     </module>
</module>
```

```
class Example1 {
  void same(int i) {}
  // comments between overloaded methods are allowed.
  void same(String s) {}
  void same(String s, int i) {}
  void same(int i, String s) {}
  void notSame() {}
  interface notSame{}

  void otherSame(String s) {}
  void foo() {}
  // violation below, 'All overloaded methods should be placed next to each other'
```

```
void otherSame(String s, int i) {}
}
```

https://checkstyle.sourceforge.io/checks/coding/overloadmethodsdeclarationord
er.html#OverloadMethodsDeclarationOrder

BooleanExpressionComplexity

```
<module name="Checker">
  <module name="TreeWalker">
    <module name="BooleanExpressionComplexity"/>
  </module>
</module>
```

```
public class Example1
{
   public static void main(String ... args)
   {
      boolean a = true;
      boolean b = false;

      boolean c = (a & b) | (b ^ a); // ok, 1(&) + 1(|) + 1(^) = 3 (max allowed 3)

      boolean d = (a & b) | (b ^ a) | (a ^ b);
      // violation above, 'Boolean expression complexity is 5 (max allowed is 3)'
      // 1(&) + 1(|) + 1(^) + 1(|) + 1(^) = 5

      boolean e = a ^ (a || b) ^ (b || a) & (a | b);
      // violation above, 'Boolean expression complexity is 6 (max allowed is 3)'
      // 1(^) + 1(||) + 1(^) + 1(||) + 1(&) + 1(||) = 6
   }
}
```

https://checkstyle.sourceforge.io/checks/metrics/booleanexpressioncomplexity. html#BooleanExpressionComplexity

BooleanExpressionComplexity

```
boolean c = (a & b) | (b ^ a); // ok, 1(&) + 1(|) + 1(^) = 3 (max allowed 3)

boolean d = (a & b) | (b ^ a) | (a ^ b);

// violation above, 'Boolean expression complexity is 5 (max allowed is 3)'

// 1(&) + 1(|) + 1(^) + 1(|) + 1(^) = 5

boolean e = a ^ (a || b) ^ (b || a) & (a || b);

// violation above, 'Boolean expression complexity is 6 (max allowed is 3)'

// 1(^) + 1(||) + 1(^) + 1(||) + 1(&) + 1(||) = 6

}
```

https://checkstyle.sourceforge.io/checks/metrics/booleanexpressioncomplexity. html#BooleanExpressionComplexity

MagicNumber

https://checkstyle.sourceforge.io/checks/coding/magicnumber.html#MagicNumber