

# Code Analysis Report

**File:** buggy.java  
**Language:** Java  
**Analysis Date:** 2025-10-03T12:30:50.145363Z

## Quality Metrics

Metric	Score	Status
Overall Quality	85/100	High
Code Coverage	75%	Pass
Complexity	0/100	Low
Quality Level	Medium	

## Bug Analysis

Detection Efficiency	60%
Total Bugs Found	1
Severity	Medium
Category: syntax_errors	1

## Time Complexity Analysis

**Dominant Complexity:**  $O(1)$   
**Confidence:** 70%

## Code Review

```
public static voidSystem.out.println("BuggyOne");
```

## Bug Report

```
Line 3: Possible missing ';' at end of statement
```

## Generated Tests

```
// Placeholder JUnit test
```

```

public class buggyTest {
    @Test
    public void testMain() {
        // Add assertions for main method
        assertTrue(true); // Basic pass
    }
}

```

## Generated Documentation

```

# API Documentation

## Class BuggyOne
- **Language**: Java

### main
- **Parameters**: String[] args
- **Returns**: Unknown

## Usage
```
# Compile and run
java BuggyOne
```

```

## Corrected Code

```

public class BuggyOne {
    public static void main(String[] args) {
        int a = 0;
        int b = 0;
        int sum = a + b;
        System.out.println("The sum of " + a + " + " + b + " is: " + sum);
    }
}

```