

Code Analysis Report

File: buggy.java

Language: Java

Analysis Date: 2025-10-03T12:48:52.012319Z

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

Basic code structure detected. Potential syntax issues based on compile check. Suggestion: Check semicolons and braces.

Bug Report

Line 4: Unbalanced parentheses in print 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);
    }
}
```