Code Analysis Report

File: buggy.java
Language: Java
Analysis Date: 2025-10-03T12:11:34.487653Z

Quality Metrics

Metric	Score	Status
Overall Quality	72/100	Medium
Code Coverage	33%	Fail
Complexity	0/100	Low
Quality Level	Medium	

Bug Analysis

Detection Efficiency	60%
Total Bugs Found	2
Severity	Medium
Categories	syntax_errors: 2

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 3: Possible missing ';' at end of statement
Line 4: Possible missing ';' at end of statement
Line 4: Unbalanced parentheses in print statement
```

Generated Tests

```
System.out.println(x); // O(1)
public static void}
```

Generated Documentation

```
# API Documentation

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

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

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

# Corrected Code

```java
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);
    }
}
```