

Code Analysis Report

File: ConstantTime.java
Language: Java
Analysis Date: 2025-10-03T12:13:48.027465Z

Quality Metrics

Metric	Score	Status
Overall Quality	72/100	Medium
Code Coverage	15%	Fail
Complexity	0/100	Low
Quality Level	Medium	

Bug Analysis

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

Time Complexity Analysis

Dominant Complexity: O(1)
Confidence: 70%

Code Review

```
public static voidSystem.out.println(getFirst(arr));int[] arr = {10,20, 30};int[] {10,20,30};int [] arr =[ 0 ]
;System . out . println}
```

Bug Report

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

Generated Tests

```
public static void System.out.println(getFirst(arr));int[] arr = {10, 20,= {20, 30};int[] {10,1,1,1, 2
```

Generated Documentation

```
# API Documentation

## Class ConstantTime
- **Language**: Java

### getFirst
- **Parameters**: int[] arr
- **Returns**: Unknown

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

## Usage
```
Compile and run
java ConstantTime
```
```

Corrected Code

```
public class ConstantTime {
    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);
    }
}
```