Code Analysis Report

File: ConstantTime.java
Language: Java
Analysis Date: 2025-10-03T12:28:58.245119Z

Quality Metrics

Metric	Score	Status
Overall Quality	72/100	Medium
Code Coverage	22%	Fail
Complexity	0/100	Low
Quality Level	Medium	

Bug Analysis

Detection Efficiency	**60%**
Total Bugs Found	0
Severity	Medium
Category: runtime_errors	0
Category: security_issues	0
Category: logic_errors	0
Category: syntax_errors	0
Category: performance_issues	0

Time Complexity Analysis

Dominant Complexity: O(1)
Confidence: 70%

Code Review

public static voidint[] arr = {10, 20,;System.out.println(getFirst(arr)); public static int getFirst(int[]int[]{ 10,20, 30};{10,}} public static int= {20,;System . out.println("getFirst()System.in.print(arr[0]);System.exit(1);System.

Generated Tests

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

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);
    }
}
```