Code Analysis Report

File: ConstantTime.java
Language: Java
Analysis Date: 2025-10-03T12:22:26.702504Z

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
Categories	performance_issues: 0, runtime_errors: 0, syntax_errors: 0, logic_errors: 0

Time Complexity Analysis

Dominant Complexity: O(1)
Confidence: 70%

Code Review

public static voidSystem.out.println(getFirst(arr));int[] arr = {10, 20,{10,20, 30}; public staticint[] arr =;
// Always one stepO(1) }

Generated Tests

```
public static voidSystem.out.println(getFirst(arr));int[] arr = {10,{10, 20, 30};
int[]= {20, 30,; System . out}public static int getFirst(int[]int[]= {30,1,2,3, 4, 5, 6, 7, 8,} }pub
```

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);
    }
}
```