

```
public static float compute(int[] numbers) {  
    int number1 = 0;  
    int number2 = 0;  
  
    while (number1 < numbers.length) {  
        number2 = number2 + numbers[number1];  
        number1 = number1 + 1;  
    }  
  
    float result = number2 / (float) number1;  
    return result;  
}
```

Abstract Syntax Tree (AST) diagram overlaid on the code, showing the hierarchical structure of the program with nodes and edges.