

The image displays a Java code snippet for finding the maximum value in an array, with an Abstract Syntax Tree (AST) overlaid. The AST consists of nodes represented by colored circles (purple, orange, yellow, and grey) connected by lines. The nodes are distributed across the code, with a dense cluster of purple nodes at the top and orange nodes in the middle, and a few yellow nodes at the bottom. The code is as follows:

```
public static int compute(int[] numbersArray) {  
    int result = numbersArray[0];  
    for (int i = 1; i < numbersArray.length; i++)  
        if (numbersArray[i] > result) {  
            result = numbersArray[i];  
        }  
    return result;  
}
```