

```
public static boolean compute(String word) {  
    boolean result = true;  
    for (int i = 0, j = word.length() - 1; i < word.length() / 2; i++, j--) {  
        if (word.charAt(i) != word.charAt(j)) {  
            result = false;  
            break;  
        }  
    }  
    return result;  
}
```

The diagram illustrates the control flow of the provided Java code. Nodes are represented by colored circles (purple, orange, yellow) and are connected by lines of corresponding colors. The graph shows the flow from the function signature to the return statement, including a loop and a conditional break.