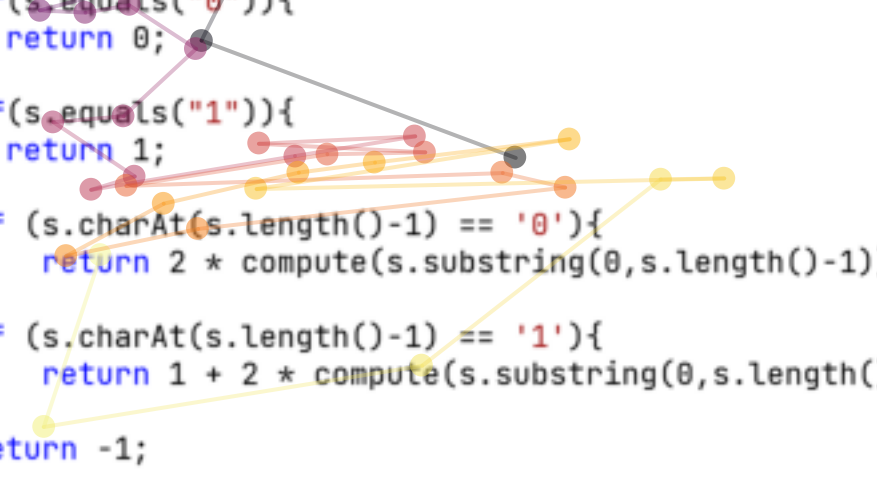


```
public static int compute(String s) {  
    if(s.equals("0")){  
        return 0;  
    }  
    if(s.equals("1")){  
        return 1;  
    }  
    if (s.charAt(s.length()-1) == '0'){  
        return 2 * compute(s.substring(0,s.length()-1));  
    }  
    if (s.charAt(s.length()-1) == '1'){  
        return 1 + 2 * compute(s.substring(0,s.length()-1));  
    }  
    return -1;  
}
```



The image displays a control flow graph (CFG) overlaid on a Java code snippet. The graph consists of nodes (colored circles) and edges (colored lines) representing the execution flow of the code. The nodes are color-coded: purple for the entry and the first two if-branches, black for the first if-branch's body and the final return, red for the second if-branch's body, orange for the third if-branch's body, and yellow for the fourth if-branch's body and the final return. The edges show the flow from the entry to the first if-branch, then to its body, then to the second if-branch, then to its body, then to the third if-branch, then to its body, then to the fourth if-branch, then to its body, and finally to the return statement. There are also edges from the first and second if-branches to the third if-branch, and from the third and fourth if-branches to the return statement.