

```
public static String compute(String input) {  
    String s1 = "";  
    for(int i = 0; i < input.length(); i++){  
        if(i%2 == 1){  
            s1 = s1 + input.charAt(i);  
        }  
    }  
    return s1;  
}
```

The diagram shows a network of nodes and edges overlaid on the code. Nodes are represented by colored circles: purple, orange, yellow, and grey. Edges are represented by colored lines: purple and orange. The nodes are connected to various parts of the code, including the method signature, the loop, the if-statement, and the return statement. The edges represent relationships between these components, such as data flow or control flow.