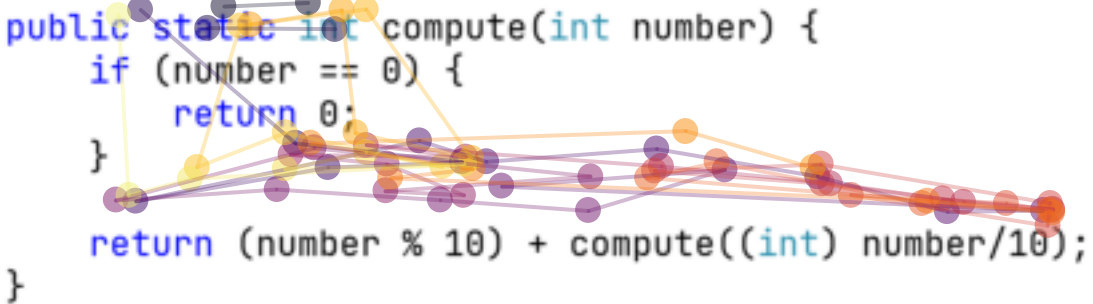


```
public static int compute(int number) {  
    if (number == 0) {  
        return 0;  
    }  
    return (number % 10) + compute((int) number/10);  
}
```



The diagram illustrates the recursive process of the `compute` function. It shows a sequence of nodes (circles) connected by lines, representing the call stack and the return values. The nodes are colored in shades of yellow, orange, and purple. The lines connect the nodes in a way that shows the flow of the recursive calls and the return values. The nodes are arranged in a way that shows the sequence of calls and returns, with the final return value being 0.