

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

The diagram illustrates the recursive calls for the `compute` function. The nodes are colored circles representing function calls, and the lines represent the flow of execution. The root node is at the top left, and the tree branches out to the right and down, eventually converging back to a single return value at the bottom right.