

```
public static int compute(int value) {  
    if (value == 1) {  
        return 1;  
    }  
    return compute(value - 1) * value;  
}
```

The diagram illustrates the call graph for the provided Java code. Nodes are represented by colored circles: purple for the function entry and return points, orange for recursive calls, and yellow for the base case. Edges connect these nodes to show the flow of execution. A dense cluster of nodes and edges is visible in the middle of the image, representing the recursive calls and returns within the function body.