

A network diagram is overlaid on the code. It consists of numerous circular nodes of varying colors (purple, orange, yellow) connected by thin lines. The nodes are distributed across the image, with a higher density on the left side where the code is more complex. Some nodes are positioned directly over specific lines of code, while others are in the margins. The connections between nodes form a complex web, with some nodes acting as hubs with many connections and others as isolated points.

```
public static int greatestCommonDivisor(int number1, int number2) {  
    int temp = number1;  
    while (temp != 0) {  
        if (number1 < number2) {  
            temp = number1;  
            number1 = number2;  
            number2 = temp;  
        }  
        temp = number1 % number2;  
        if (temp != 0) {  
            number1 = number2;  
            number2 = temp;  
        }  
    }  
    return number2;  
}
```