

A network diagram is overlaid on the code. It consists of numerous circular nodes in various colors (purple, orange, yellow, grey) connected by thin lines. The nodes are distributed across the code, with a high concentration in the middle section. Some nodes are connected to multiple other nodes, creating a complex web of relationships. The lines connecting the nodes are thin and light-colored, blending into the background.

```
public static int power(int base, int exponent) {  
    int result = base;  
    for (int i = 2; i <= exponent; i++) {  
        result = result * base;  
    }  
    return result;  
}
```