



The image displays a C++ function for calculating the binomial coefficient, overlaid with a network diagram. The network consists of numerous nodes, represented by semi-transparent circles in shades of orange, yellow, and purple. These nodes are interconnected by thin, dark purple lines, forming a complex web. The nodes are distributed across the image, with a higher density on the left side where the code is located, and a more sparse arrangement on the right. The code is written in a monospaced font, with keywords like 'public', 'static', 'int', 'if', 'for', 'return', and '}' in blue, and variable names and literals in black. The network diagram appears to be a visualization of some form of data or relationships, possibly related to the code's logic or a separate dataset.

```
public static int binomialCoefficient(int n, int k) {  
    int res = 1;  
    if (k > n - k)  
        k = n - k;  
    for (int i = 0; i < k; ++i) {  
        res *= (n - i);  
        res /= (i + 1);  
    }  
    return res;  
}
```