

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

The image features a network diagram with numerous nodes and edges. The nodes are colored in shades of purple and yellow. The edges are thin lines connecting the nodes, with some lines being purple and others yellow. The diagram is overlaid on a C++ code snippet for a binomial coefficient function. The code is written in a monospaced font with blue and black text. The function signature is `public static int binomialCoefficient(int n, int k) {`. The first line inside the function is `res = 1;`. The next line is `if (k > n - k)`, followed by `k = n - k;`. Then there is a `for` loop: `for (int i = 1; i < k; ++i) {`. Inside the loop, there are two lines: `res *= (n - i + 1);` and `res /= i;`. The loop is closed with `}`. The function ends with `return res;` and a closing brace `}`.