



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

The image displays a code snippet for a power function in Java. The code is overlaid with a complex network of colored circles (nodes) and lines (edges), suggesting a graph-based analysis of the code. The nodes are in various colors including purple, orange, yellow, and grey. Lines connect these nodes to specific parts of the code, such as the function signature, the initialization of 'result', the loop condition, the loop body, and the return statement. This likely represents a control flow graph (CFG) or a data flow graph (DFG) used for static analysis or compiler optimization.