

```
public static int compute(int a, int b) {  
    int result = a * b;  
    for(int i = 1; i < a * b; i++){  
        if(i % a == 0 && i % b == 0){  
            result = i;  
            break;  
        }  
    }  
    return result;  
}
```

The image displays a network graph overlaid on a Java code snippet. The graph consists of numerous nodes, represented by colored circles (purple, orange, yellow, and grey), which are interconnected by a web of thin, multi-colored lines (edges). The nodes are distributed across the code, with a high concentration in the middle section, particularly around the `if` statement and the `break` statement. The edges represent relationships or dependencies between different elements of the code, such as variables, operators, and control flow statements. The background code is a Java method named `compute` that takes two integers `a` and `b` as input, calculates their product, and then iterates through numbers from 1 to `a * b - 1` to find the first number that is a multiple of both `a` and `b`. If such a number is found, it is assigned to `result` and the loop is broken. Finally, the method returns `result`.