

```
public static int power(int base, int exponent) {  
    if (exponent == 0) {  
        return 1;  
    }  
    if (exponent == 1) {  
        return base;  
    }  
    return base * power(base, exponent - 1);  
}
```

The diagram illustrates the recursive execution of the `power` function. It shows a series of nodes (circles) connected by lines, representing the sequence of function calls and return values. The nodes are colored in shades of purple, orange, and yellow. The lines connect the nodes in a way that shows the flow of the recursive process, from the initial call down to the base cases and then back up to the final result.