

```
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 features a series of colored circles (nodes) connected by lines, representing the sequence of function calls and returns. The nodes are colored purple, orange, yellow, and red. The purple nodes represent the initial call and the first recursive step. The orange nodes represent subsequent recursive calls. The yellow nodes represent the base cases where the function returns 1 or the base. The red nodes represent the return values being passed back up the call stack.