

```
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 calls for the `power` function. The nodes represent the state of the function at each call, with the stack growing from the bottom (return base \* power(base, exponent - 1);) up to the top (return 1;). The nodes are colored in a gradient from yellow at the bottom to purple at the top, with orange and red in between. The diagram shows the sequence of calls and the return flow back up the stack.