

```
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 call stack for the `power` function. Nodes are represented by colored circles: purple for the base cases (`exponent == 0` and `exponent == 1`), yellow for the recursive call (`power(base, exponent - 1)`), and orange for the return values. Lines connect the nodes to show the flow of control and data return. The stack grows from the bottom (returning 1) up to the top (returning `base * power(base, exponent - 1)`), and then unwinds as each call returns its value to the caller.