Consider the following function:

```cpp
int A(int m, int n) {
    cout << "calling A(," << m << ",," << n << ")" << endl;
    if (m == 0) {
        return n+1;
    } else if (m > 0 && n == 0) {
        return A(m-1,1);
    } else if (m > 0 && n > 0) {
        return A(m-1,A(m,n-1));
    }
    return 0;
}
```

1.) What is the return value for \( A(1,2) \)? How many lines are printed out when \( A \) is called with these parameters?

2.) What is the return value for \( A(2,2) \)? How many times is \( A() \) called?