What is the time complexity of the following functions in big-O notation? You do not need to justify your answers.

```
void mystery1(int n){
        for (int i=0; i<n; i++)
                for (int j=0; j<n; j++)
                        cout << i << " " << j << endl;
        if (n>0)
                mystery1(n-1);
}

void mystery2(int n){
        for (int i=0; i<n; i++)
                        cout << i << endl;
        if (n>1)
                mystery2(n/2);
}

void mystery3(int n){
        cout << n << endl;
        if (n>1)
                mystery3(n/2);
}

void mystery4(int n){
        cout << n << endl;
        if (n>1){
                mystery4(n/2);
                mystery4(n/2);
        }
}

void mystery5(int n){
        for (int i=0; i<n; i++)
                cout << i << endl;
        if (n>1){
                mystery5(n/2);
                mystery5(n/2);
        }
}

void mystery6(int n){
        for (int i=0; i<n; i++)
```

```cpp
        for (int j=0; j<n; j++)
                cout << i << " " << j << endl;
    if (n>1){
            mystery6(n/2);
            mystery6(n/2);
    }
}
```