

Announcements

- Markov – Due Thursday
- APT Set 4 – Due Oct 17
- Yes, we have recitation.

Exam Update

- Not everyone has taken it
- Exam return on Wednesday
 - come early

Today

- Recursion



Search

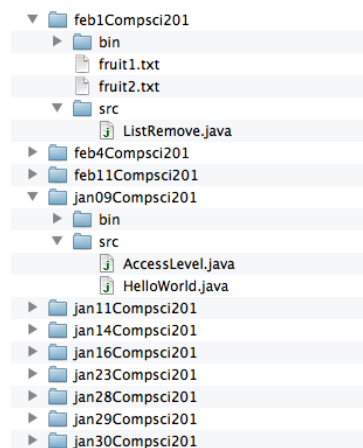
- You somehow have access to your professor's computer
- You want to find a solution to CirclesCountry
- There is no search bar
- Assume the folders have no helpful names
- How do you find CirclesCountry.java?

Step 1. Open folder 1

...

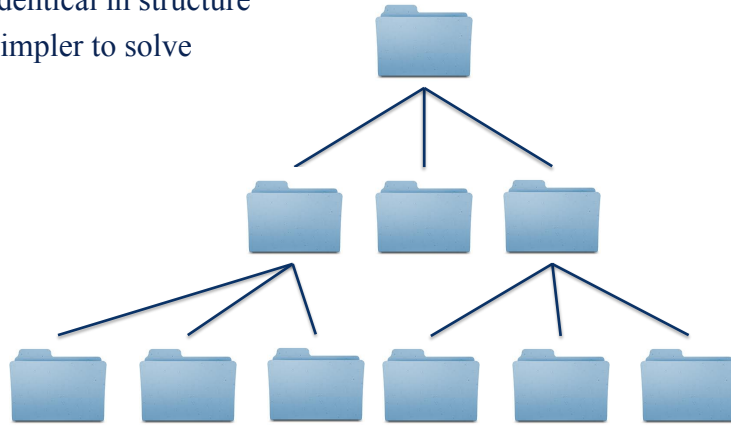
Directory Search

- Snarf today's code



Recursion

- Solve a big problem
 - Reduce it to a sub problem
 1. identical in structure
 2. simpler to solve



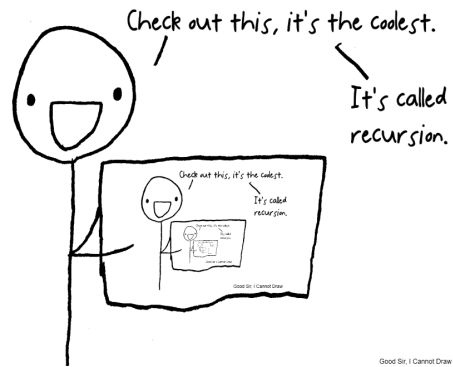
General Structure

```
void solve(ProblemClass instance){  
    if(instance is simple){  
        solve instance directly  
    }  
}
```

```
    divide into sub instance(s)  
    solve sub instance  
    reassemble problem
```

Practice with recursion

- Recitation
 - Recitation
 - Recitation
 - Recitation
 - Recitation



Feedback

- <http://goo.gl/XJp2FC>



Practice

- Practice recursion here:
 - <http://codingbat.com/java/Recursion-1>
- Submit your code here:
 - <http://goo.gl/auH0s>