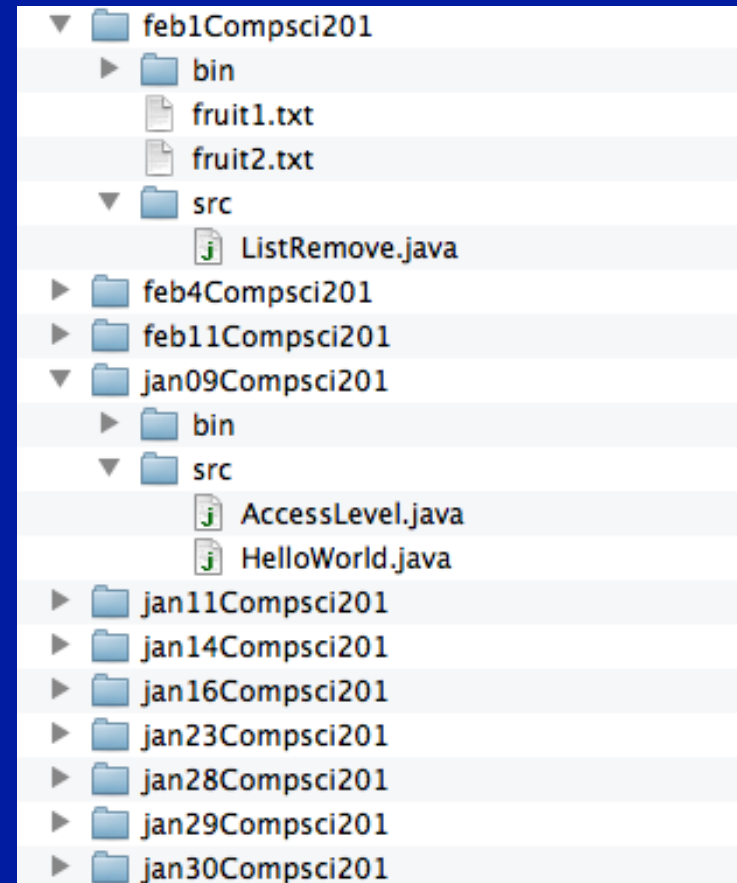


As you come in...

- Write a step-by-step algorithm for finding a file on a computer.
- <http://goo.gl/TmED1>
- snarf today's code





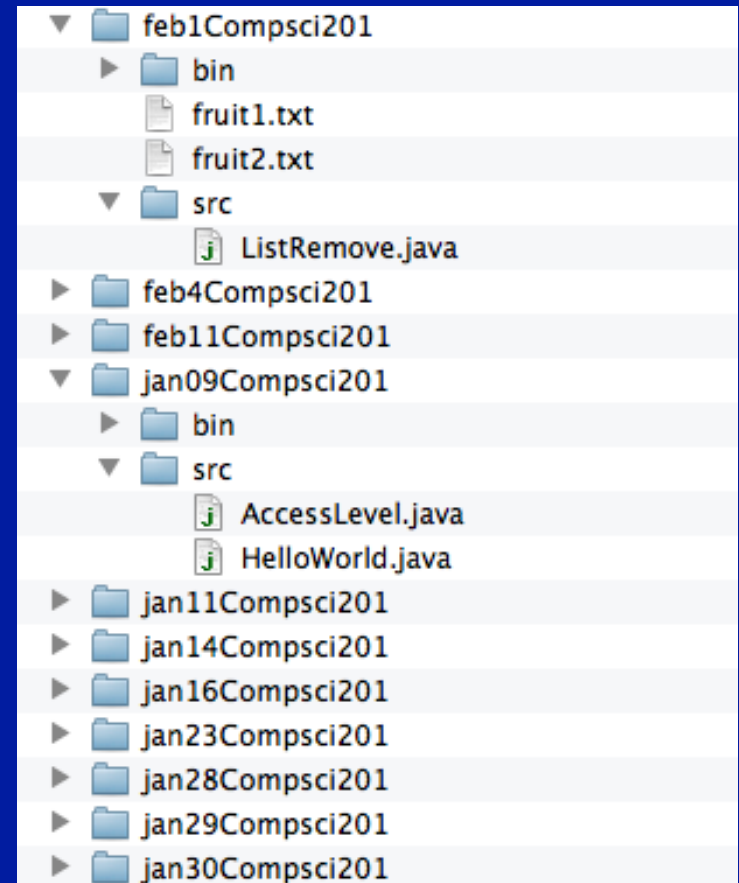
Announcements

- Markov - Due tomorrow
- Exam update



Directory search

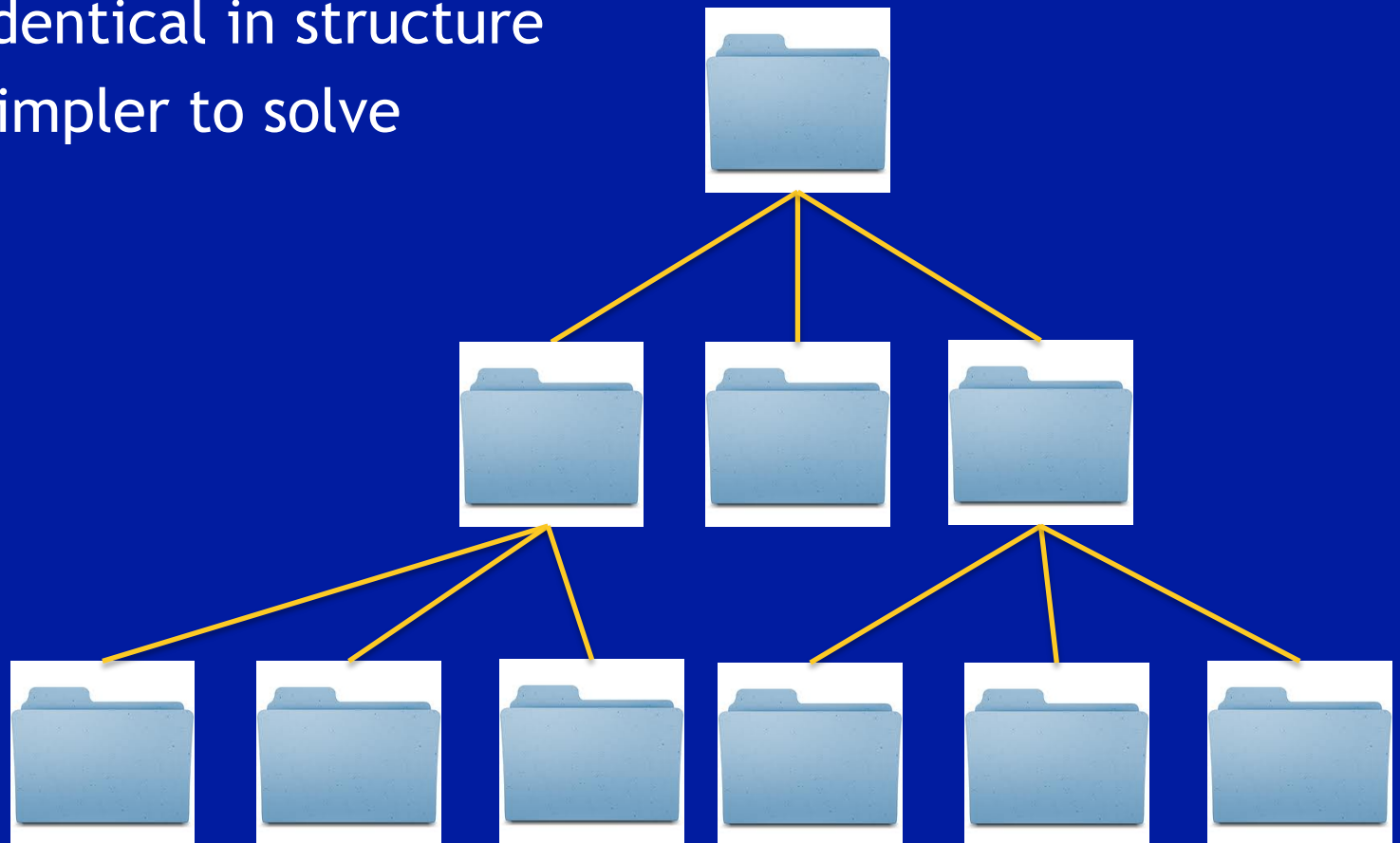
- Snarf the code for today





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*}
 - else{
 - *divide into subinstance(s)*
 - **solve**(subinstance)
 - *reassemble problem*
 - }
- }



Recursion in Linked Lists

```
1 public class Node{
2     String myData;
3     Node myNext;
4
5     public Node(String data, Node next){
6         myData = data;
7         myNext = next;
8     }
9 }
```



Practice

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