## CS61A

# TREES, DATA ABSTRACTION, SEQUENCES

## **LOGISTICS AND REMINDERS**

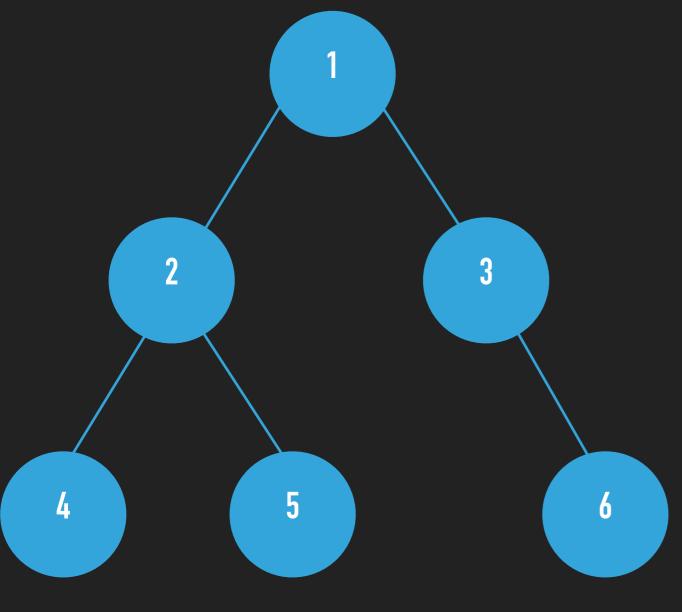
- Lab04 due Today
- Cats project due Friday
- Hog Composition due Friday

### **AGENDA**

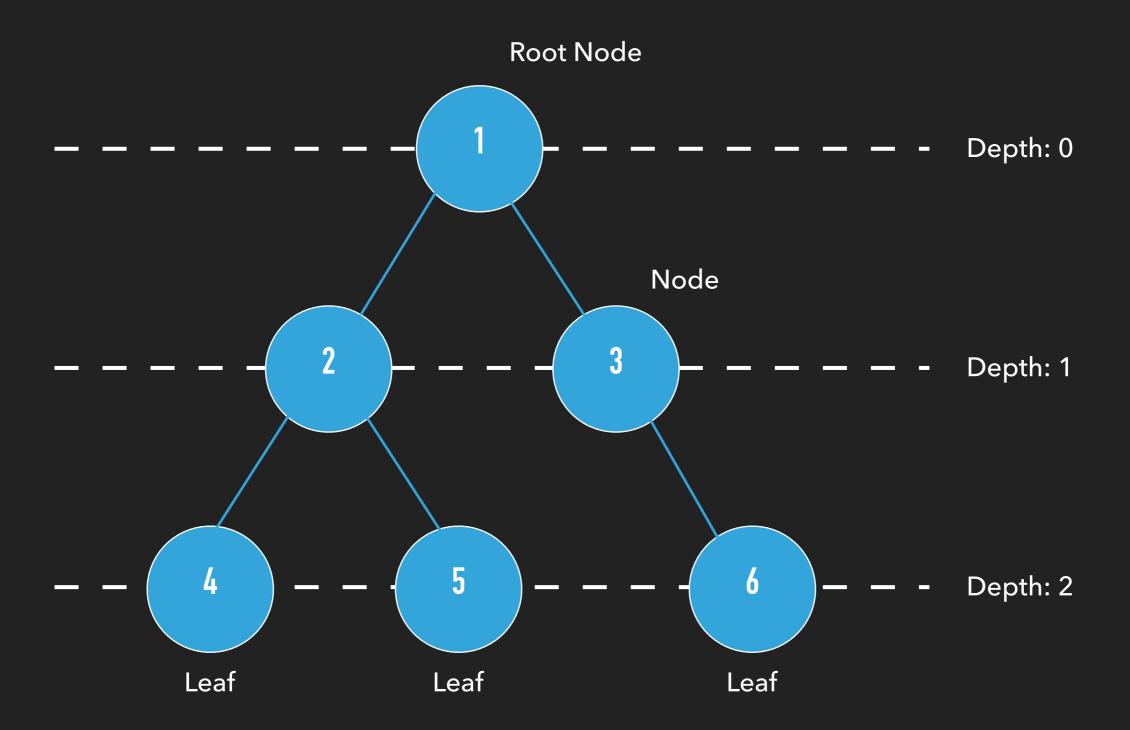
- Trees
- Problems

# WE MEAN

# NOT





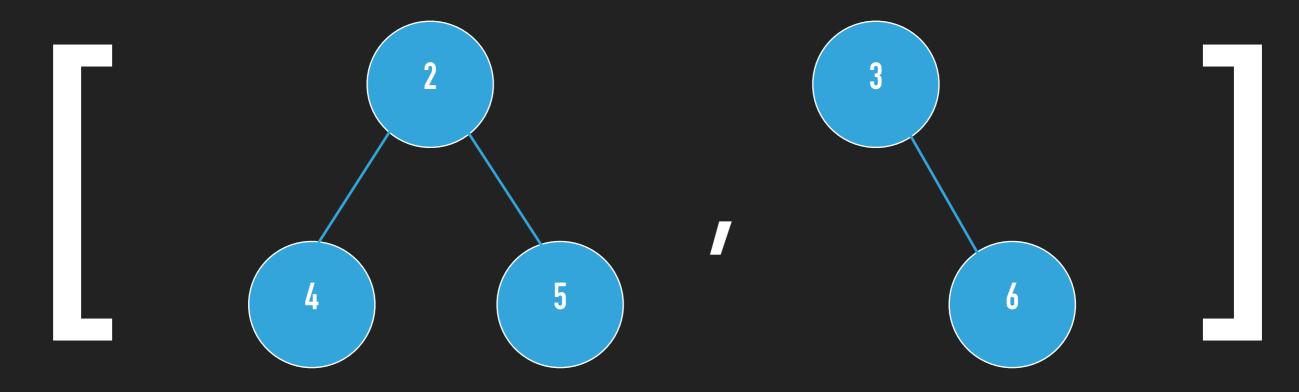


### **HOW TO INTERACT WITH TREES**

- Make trees tree(label, branches=[])
- Get label of root node label(t)
- Get branches branches(t)
- Is the tree a leaf? is\_leaf(t)

## LOOKING AT THE PREVIOUS TREE

- ► label(t): 5
- is\_leaf(t) : False
- branches(t):



#### PROBLEM SOLVING

- Base case often has to do with is\_leaf
- There are times no explicit base case is needed
- [fn(b) for b in branches(t)] or iterating through branches

is common pattern

Recommended Exam Problem: Summer '18 Final Q6)