20.181 Lecture 6

Exams and HWs

• In-class midterm on 10/11

studying for the exam: don't memorize lecture notes, more important to be able to work through the problems understand all the homeworks and you'll be prepared

Homeworks coming up

• HW5: Due next wednesday

downPass, maximum likelihood

• HW6:

search tree space

Up Pass

- If we know what the best answer is at the root- all of the other internal nodes aren't necessarily the best guess. We need an upPass algorithm that passes information from the root, back up to the leaves.
- For this example, we are dealing with **one** column of the sequence alignment. In this simple example, we compute one possible set of internal states (but we learned that this doesn't cover all possible states see lecture 7 for details):

```
def upPass(tree,parent):
if tree is a leaf: #(stop)
return
i = parent <intersect> downpass
if i = None:
data = i <union> downpass
upPass(left,data)
upPass(right,data)
```