Chapter 8, Strings:

▶ General introduction; string sorting (Wednesday)
▶ Tries (Today)
▶ Other string topics (next week Monday and Wednesday)
   ▶ Regular expressions
   ▶ Huffman encoding
   ▶ Edit distance
   ▶ Grammars and parsing
▶ Review for Tests 3 and 4 (next week Friday)

Today:
▶ Problem statement
▶ Main idea behind tries
▶ Code details:
   ▶ Node class
   ▶ Find
   ▶ Insertion
   ▶ Deletion
Coming up (the last):

*Catch up on old projects ...*

*Do Open Addressing project (suggested by Friday, Dec 2)*
*Do Trie project (by Friday, Dec 9)*

*Due Thurs, Dec 1, but enabled until midnight tonight (Dec 2)*
*Take quiz (on Section 8.1)*

*Due Fri, Dec 2*
*Do Exercises 8.(7, 14, 20)*
*Read Section 8.2*
Projects:

- Last regular project score update on Tues, Dec 6
- “Two minute warning” run of scripts on Fri, Dec 9 (no Schoology update—see report file)
- All projects due on the last day of classes, midnight between Fri, Dec 9 and Sat, Dec 10—not last day of finals.

Final exam

- Our final exam block is **Wed, Dec 14, 10:30am–12:30pm**
- During our final exam block, we will meet in the CSCI lab
- Test 3 ("written"/conceptual part) will be like Test 1, but covering BSTs (ch 5) through strings (ch 8)
- Test 4 (programming part) will work the same way as Test 2, covering dynamic programming, hashing, and strings.
isTerminal  false            value  null

children

Peter
Invariant 39. [Class invariant of TrieMap]

(a) For all nodes, the path to that node is a prefix to at least one key in the map.
(b) For all nodes, the node is terminal iff the path to that node is a key in the map.