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.






## 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.

