Chapter 8, Strings:

General introduction; string sorting (last week Friday)

▲ロト ▲圖ト ▲画ト ▲画ト 三回 - のへで

- Tries (Today)
- Other string topics (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 **Perfect Hashing** project (suggested by Wednesday, Apr 26) Do **Trie** project (by Friday, Apr 28)

▲ロト ▲圖ト ▲画ト ▲画ト 三回 - のへで

Due **Today, Mon, Apr 24** Do Exercises 8.(7, 14, 20) Read Section 8.2 Projects:

- Last regular project score update on Tues, Apr 25
- "Two minute warning" run of scripts on Fri, Apr 28 (no Schoology update—see report file /cslab/class/cs345/(your userid)/(your userid).report)
- All projects due on the last day of *classes*, midnight between Fri, Apr 28 and Sat, Apr 29—not last day of finals.

Final exam

- Our final exam block is Wed, May 3, 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 the second part (MST and SSSP) of graphs (ch 6), and then 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.



◆□▶ ◆□▶ ◆臣▶ ◆臣▶ 臣 の�?



◆□▶ ◆□▶ ◆臣▶ ◆臣▶ 臣 の�?





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.

◆□▶ ◆□▶ ◆臣▶ ◆臣▶ 臣 -