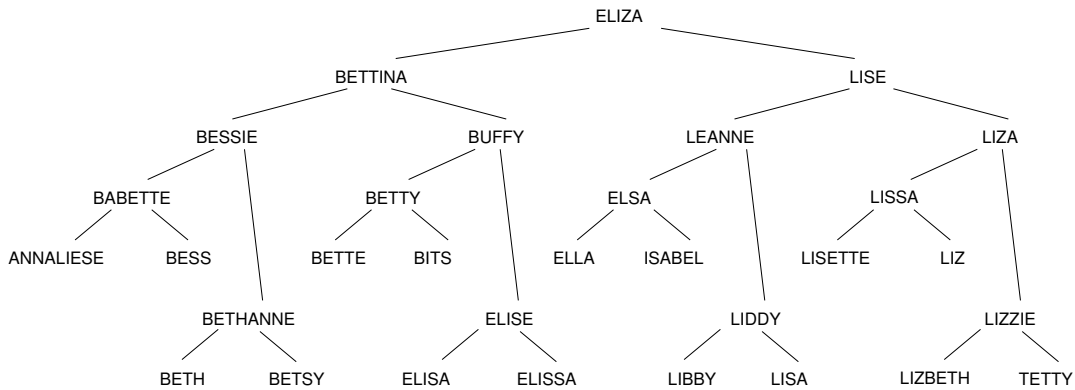


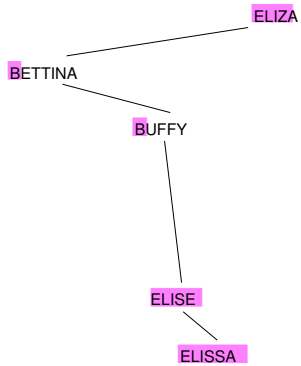
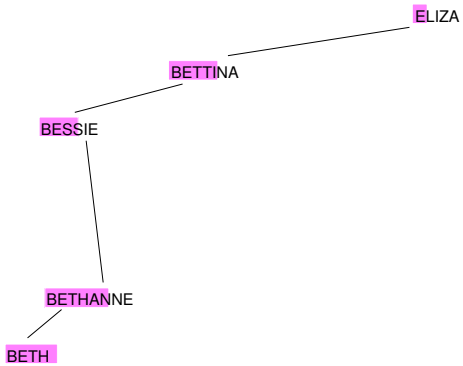
Chapter 8, Strings:

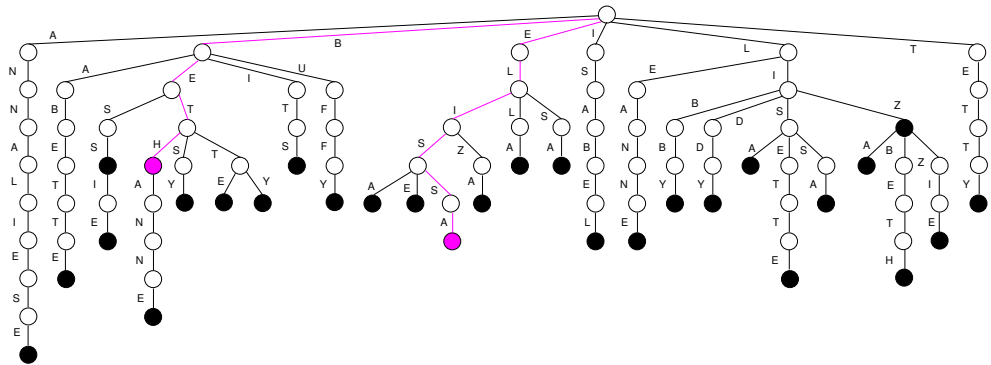
- ▶ General introduction; string sorting (last week Friday)
- ▶ Tries (**Today**)
- ▶ Other string topics (Wednesday)
 - ▶ Regular expressions
 - ▶ Huffman encoding
 - ▶ Edit distance
 - ▶ Grammars and parsing

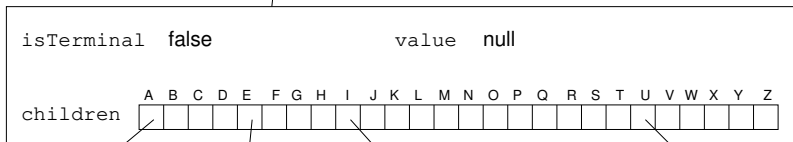
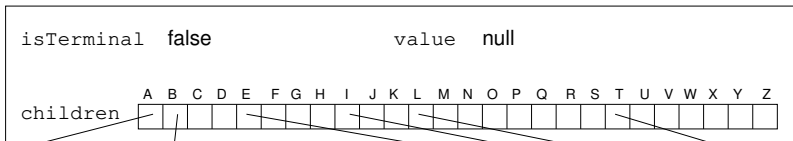
Today:

- ▶ Problem statement
- ▶ Main idea behind tries
- ▶ Code details:
 - ▶ Node class
 - ▶ Find
 - ▶ Insertion
 - ▶ Deletion









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.

Coming up:

Do **Perfect Hashing** project (suggested by Wednesday, Apr 27)

Do **Trie** project (by Friday, Apr 29)

Due **Mon, Apr 25** (end of day)

Do Exercises 8.(7, 14, & 20)

Take *the last* quiz (on Section 8.1) Read Section 8.2