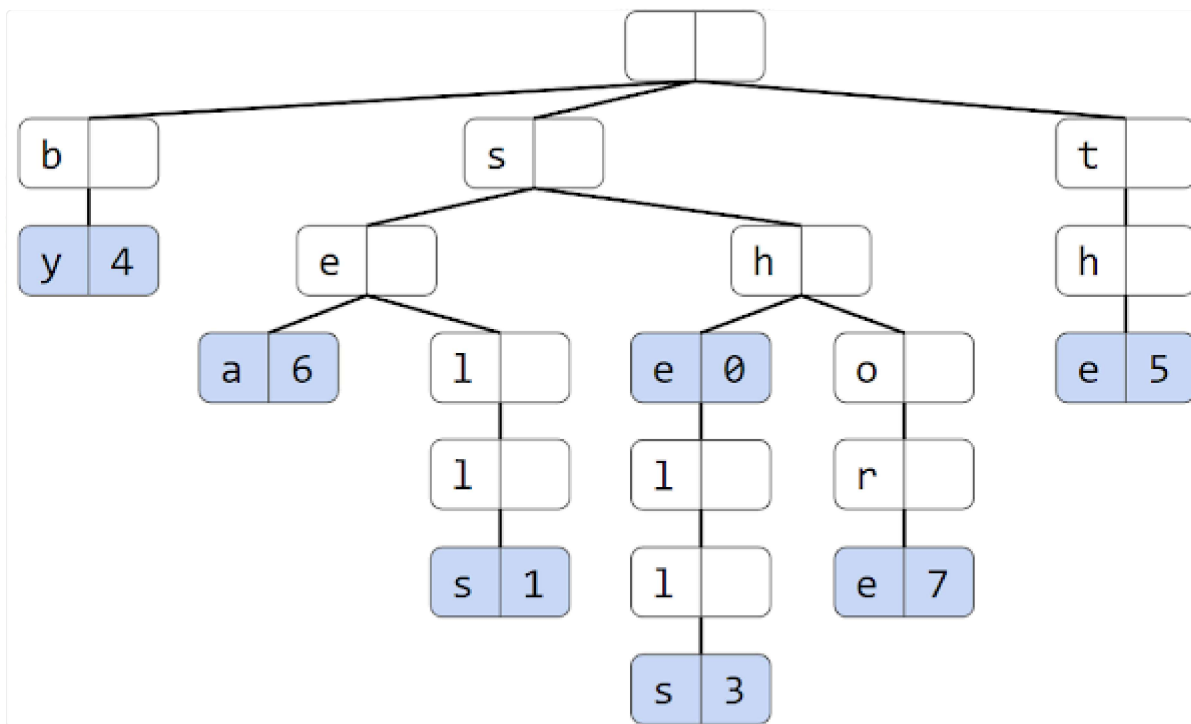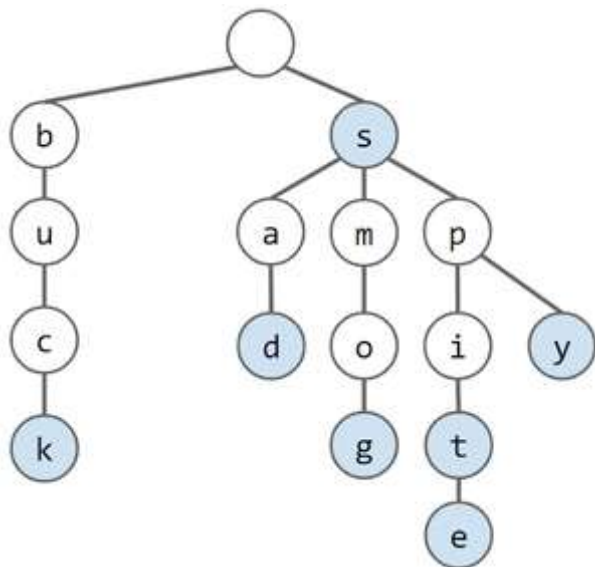# 26.5 Exercises

Factual

1. Suppose we use the following trie to represent a map. What would `get("sea")` return? What about `get("sell")` ?

2. Consider the Trie-based set below. What does `keysWithPrefix("sp")` return? What nodes does it visit during this call?

3. What is the worst-case runtime when searching for a single word in a trie? Let R be the size of the alphabet, and N be the number of items in the trie, and L be the length of the word being operated on.

> Problem 1

> Problem 2

> Problem 3

Metacognitive

1. Compare the worst-case number of character comparisons required to insert a word into an LLRB, hash table, and R-way trie. Let R be the size of the alphabet, and N be the number of items in the trie, and L be the maximum length of any word.

> Problem 1

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