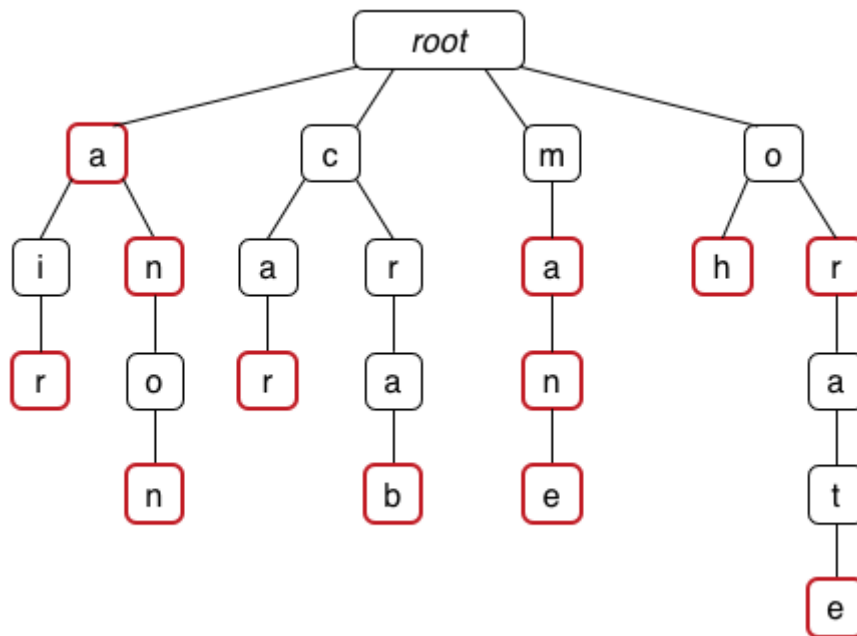


# Week 4b Problem Set

## Tries and Pattern Matching

1. Consider the following trie, where finishing nodes are shown in red:



What are the keys?

**Answer:**

In alphabetical order: a, air, an, anon, car, crab, ma, man, mane, oh, or, orate.

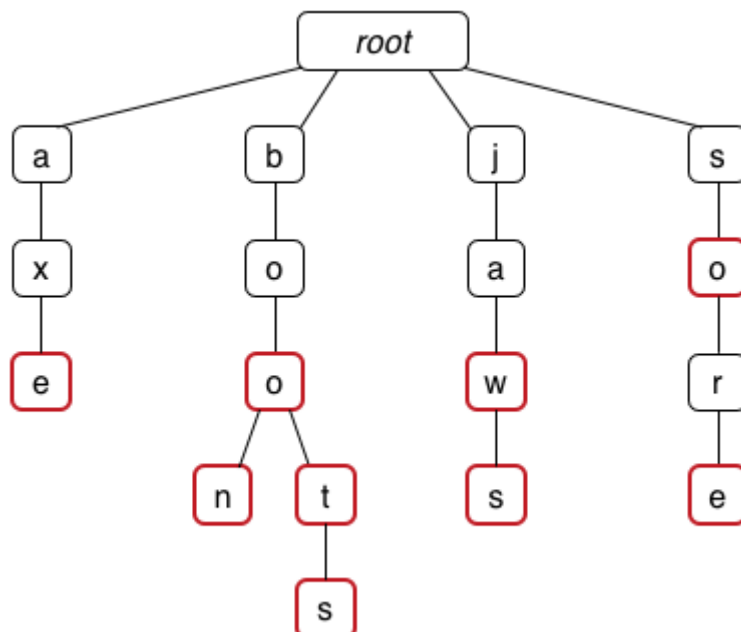
2. If the following keys were inserted into an initially empty trie

jaws boots axe boo so sore boot boon

what would the final trie look like? Does the order of insertion matter?

**Answer:**

The trie after all keys are inserted:



The order of insertion does not matter. The same trie will always result from insertion of the same set of words.

You can check answers for the rest of the questions using the web links provided in the questions.