Exercises: Tries

Warning: The hard deadline has passed. You can attempt it, but **you will not get credit for it**. You are welcome to try it as a learning exercise.

```
To specify an array or sequence of values in an answer, you must separate the values by a single space character (with no punctuation
and with no leading or trailing whitespace). For example, if the question asks for the first ten powers of two (starting at 1), the o
nly accepted answer is:

1 2 4 8 16 32 64 128 256 512

If you wish to discuss a particular question and answer in the forums, please post the entire question and answer, including the seed
(which is used by the course staff to uniquely identify the question) and the explanation (which contains the correct answer).
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Question 1

```
(seed = 369735)
Suppose that you insert the following sequence of 7 strings into a multiway trie:

    12 33 223 112 221 2113 31

How many (non-null) nodes does the resulting trie contain (including the root node)?
```

Question 2

```
(seed = 698732)
Suppose that you insert the following sequence of 7 strings into a ternary search trie:

    215 412 114 434 421 514 134

What are the depths of the nodes corresponding to the last characters in the 7 strings
(in the order the strings were inserted)? Recall: the depth of the root node is 0.

              0    1    2    3    4    5    6
          --------------------------------
     key    215  412  114  434  421  514  134
    depth
```

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Submit Answers   Save Answers

You cannot submit your work until you agree to the Honor Code. Thanks!