Monday, 30 January 2017

Crux

Text Processing

Sumeet Malik

CODING BLOCKS

String Class in Java

1. Immutable
2. Substring
3. Concat
4. indexOf
5. startsWith
6. endsWith

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Mutable String?

StringBuffer

1. Mutable String
2. Append
3. Insert
4. Reverse
5. setCharAt
6. .toString

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How to choose between String and StringBuffer?

Text Processing

1. Pattern Matching
   a. Brute Force
   b. Boyer Moore
   c. Tries
2. Text Compression
3. Text Similarity
   a. LCS
   b. Edit Distance

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Pattern Matching Algorithms

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Lets implement the Brute Force Algorithm

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Boyer Moore Algorithm

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What if we get multiple queries for a fixed String?

CODING BLOCKS
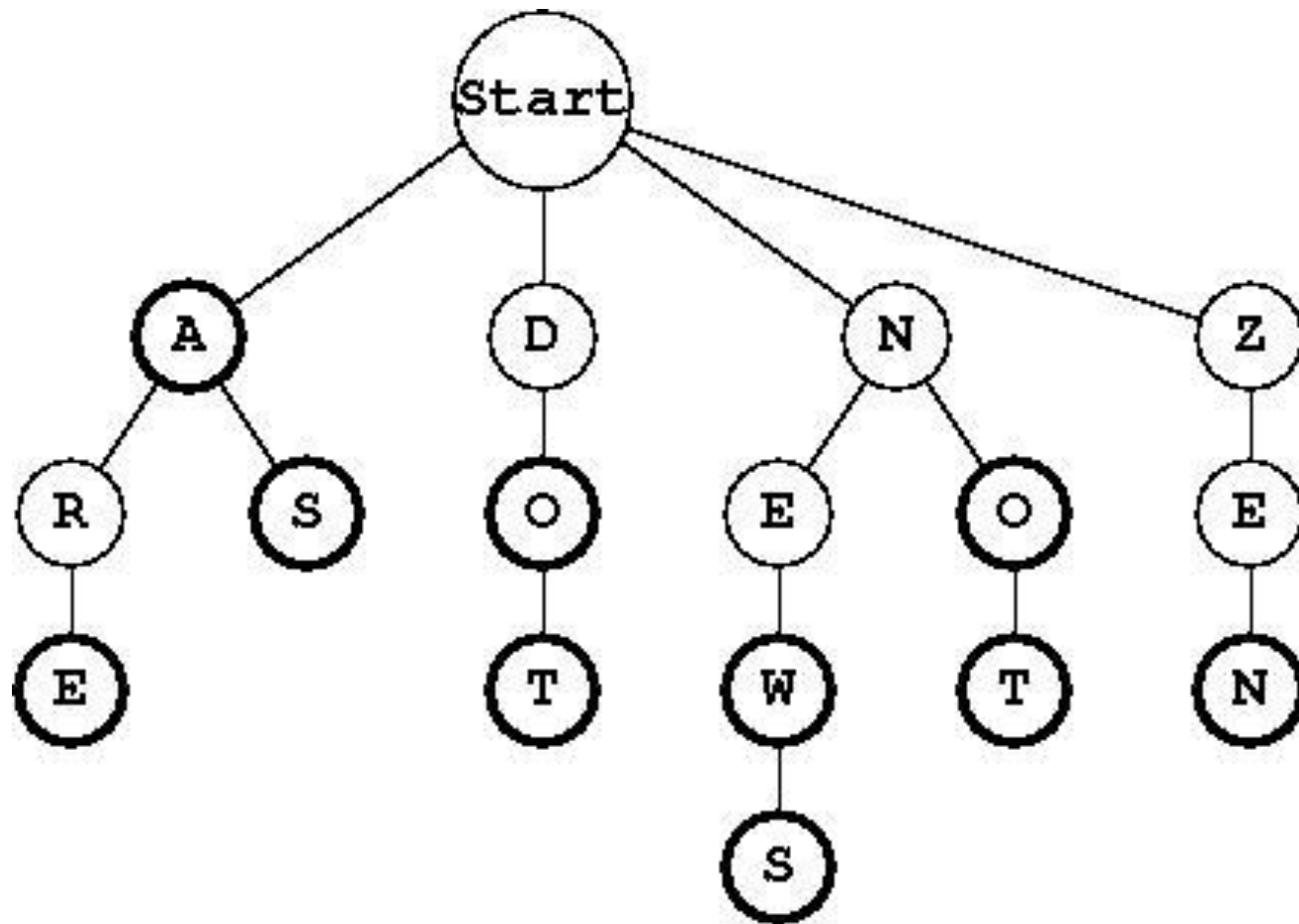
Trie

Trie

Lets Implement Trie Class

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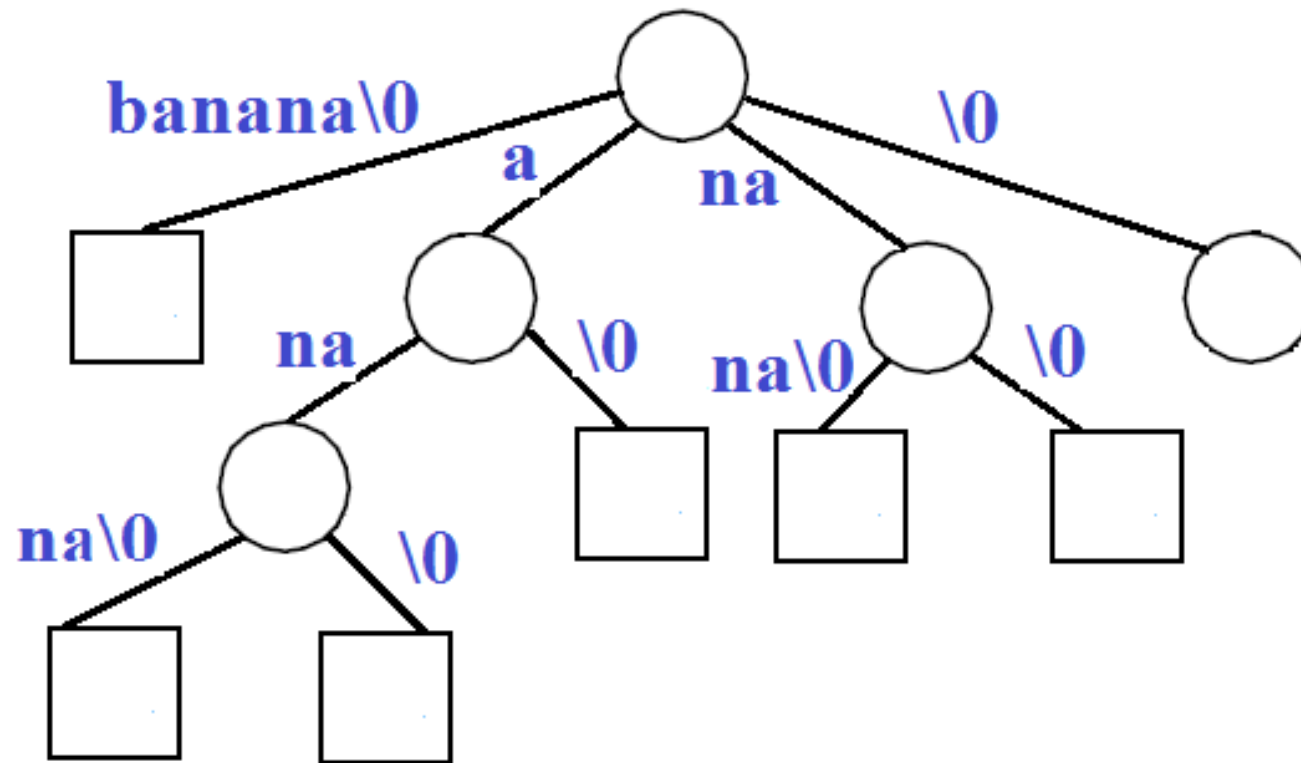
Compressed Tries
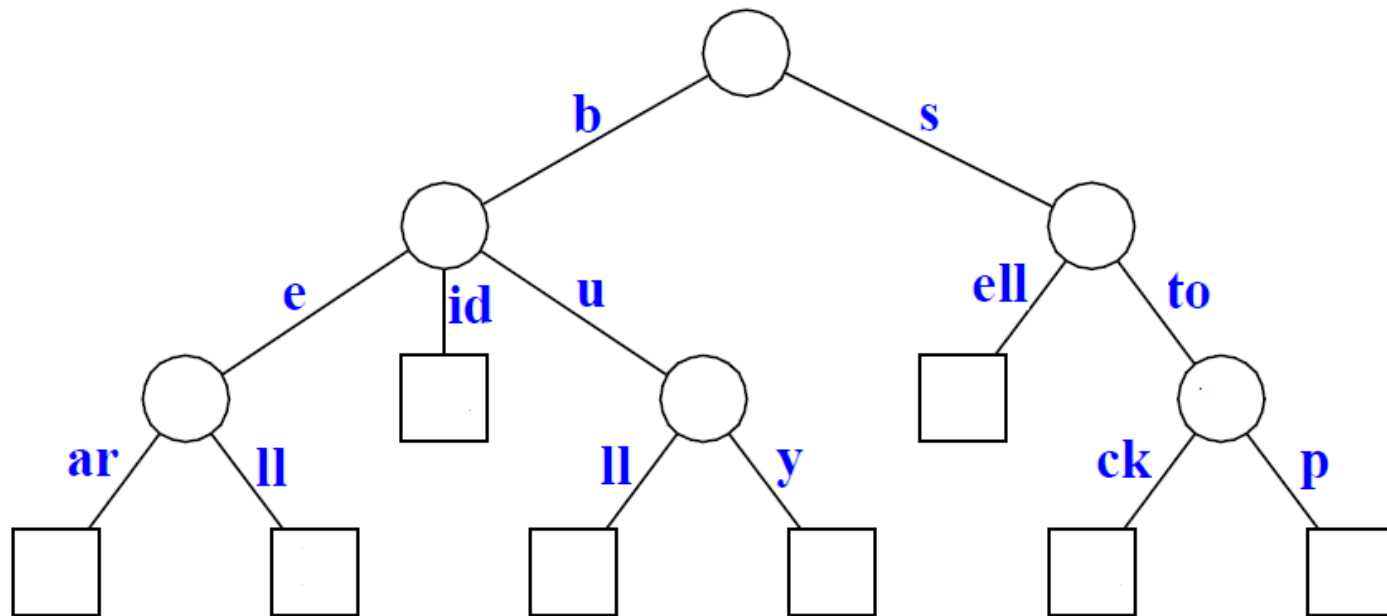
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Trie

Suffix Tries

Trie

Text Compression

Huffman Coding

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Thank You!

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