

Friday, 15 April 16

Crux

Lecture - 24

Text Processing

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String Class in Java

- Immutable
- Substring
- Concat
- indexOf
- startsWith
- endsWith

Mutable String?

StringBuffer

- Mutable String
- Append
- Insert
- Reverse
- setCharAt
- .toString

How to choose between String and StringBuffer?

Text Processing

1. Pattern Matching
 - a. Brute Force
 - b. Boyer Moore
 - c. Tries
2. Text Compression

Pattern Matching Algorithms

Lets implement the Brute Force Algorithm

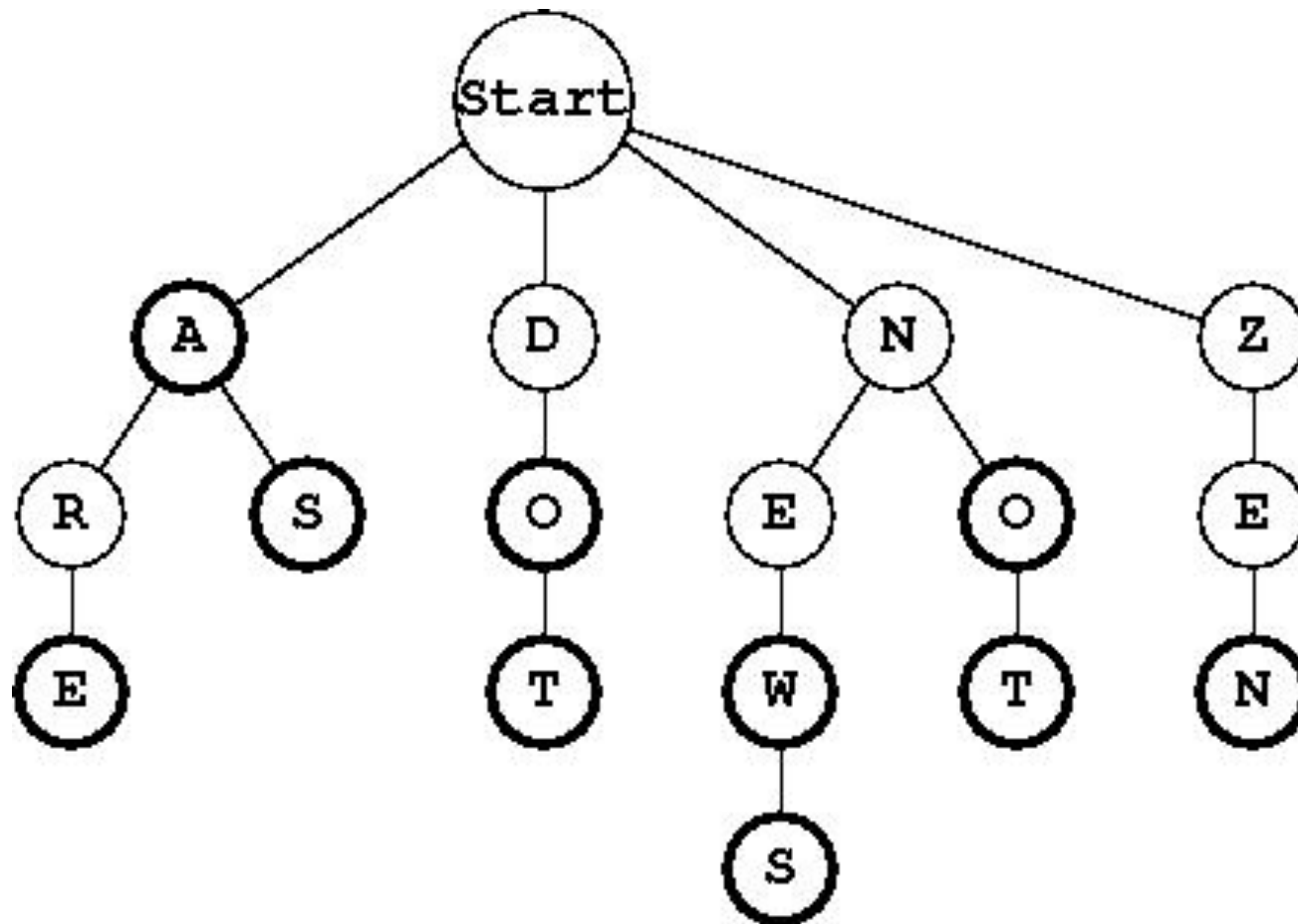
Boyer Moore Algorithm

Lets implement !!

What if we get multiple queries for a fixed String?

Trie

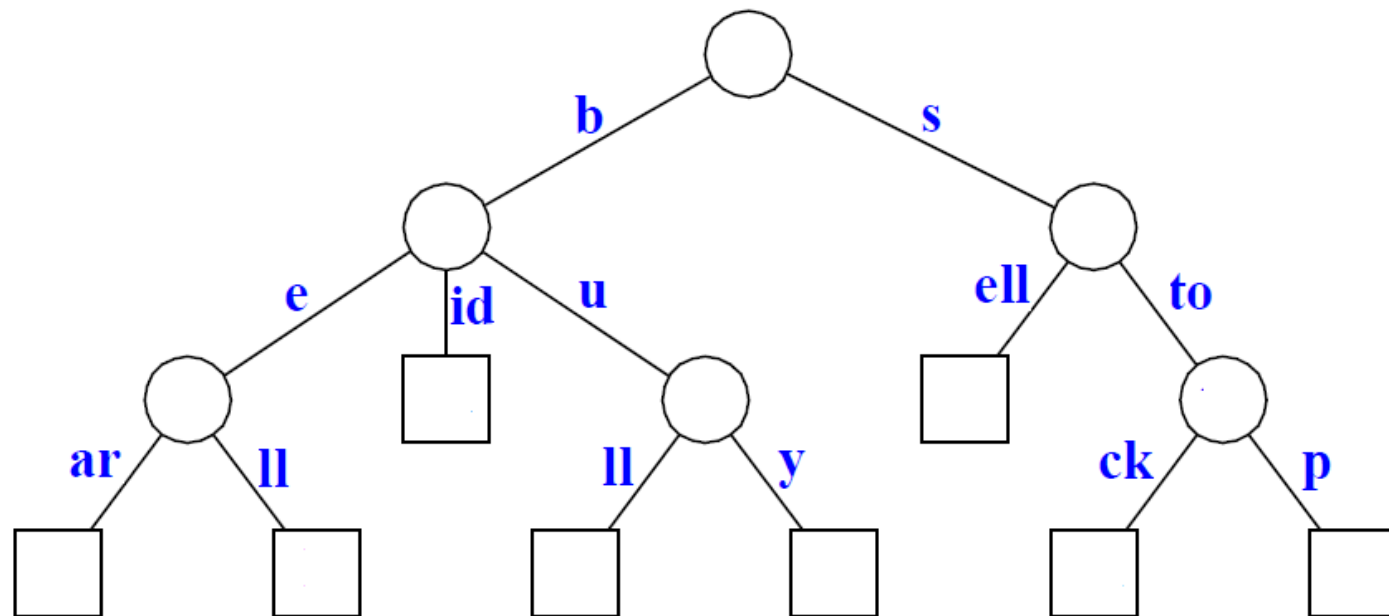
Trie



Lets Implement Trie Class

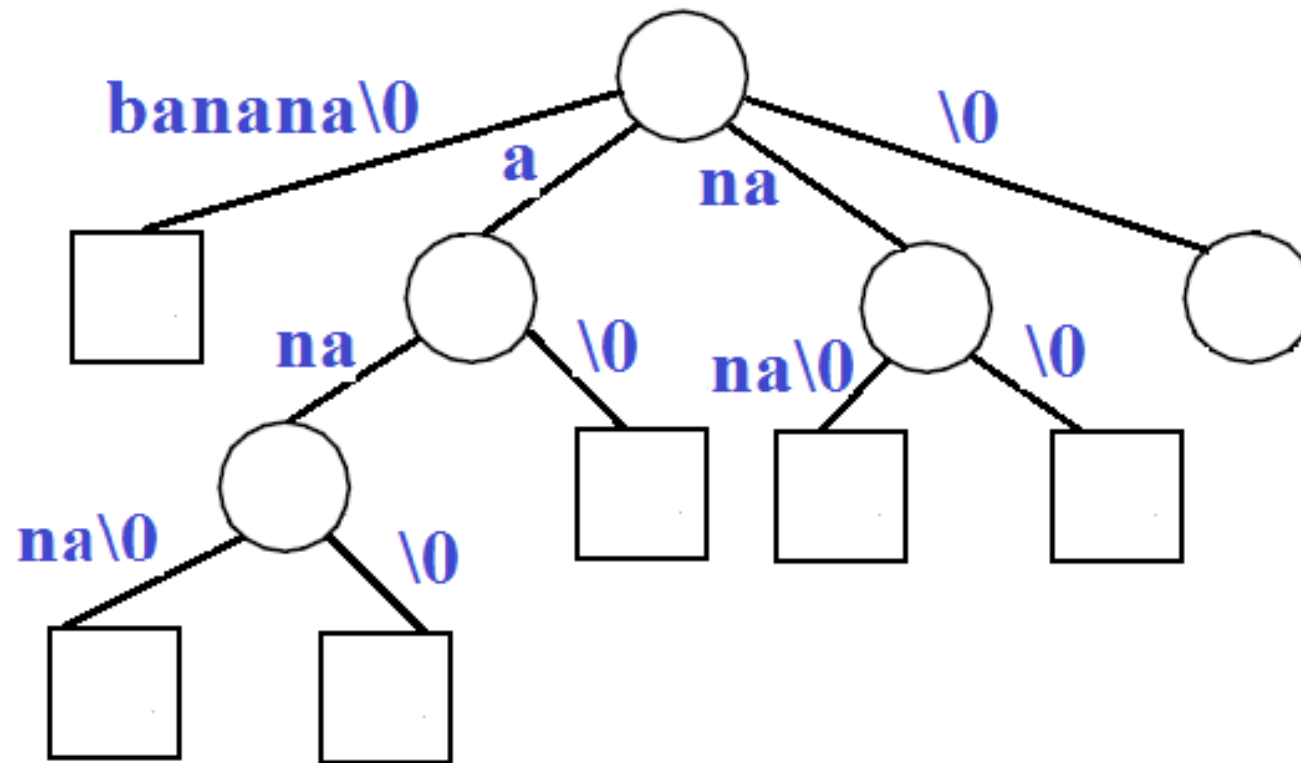
Compressed Tries

Trie



Suffix Tries

Trie



Text Compression

Huffman Coding



Thank You !! 😊

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