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Toils Data Stauctural

Tokes one excelat and weful data standing that are based on profine of a string.

This used to represent the Radrevel of date

Tre is an efficient information reTrieval data structure. Properties

- Tyle is tree.
- Stores a set of stoing. Every node consists of atmost 26 children.
- Every node (except not) will store a letter in alphaset.
- the children of a node are alphabetically stored.

e. S = & bear, bell, bed, bull, buy, sell, stock, stop &

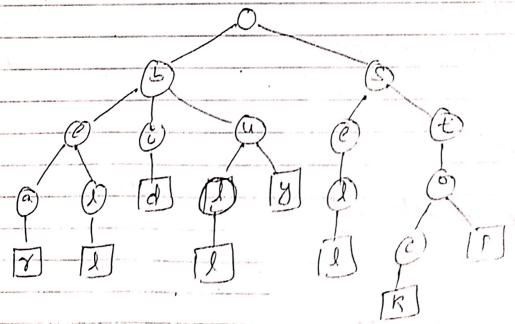


fig dre

The is an efficient information retrieval data structure.

Using The, search complexities com be brought to optimal limit (Key length). If we store key in Binary search Tree, a well balanced BST will need time proportional to m x log n where m is maximum string length and N is the number of Keys in tree.

Using The, we can search the key in O(m) time.

However the bendly is on The storege requirements.

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O with The we can mosent, final strongs in O(b) time

. where L is the length of a single woord. This is obviously

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faster than BST. This is fester than the hing because
of the way it is implemented, we do not need to
of the way it is implemented, we do not need to
compute any hash function, No collision handling is required
compute any hash function, No collision handling is required

o we can easily fromt all woosels in alphabetical ender

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we can efficiently do brefree search or auto complete) with
the

The are fester but requires huge memory.

