

TRIE

Definition:A trie is a data structure of n-ary tree which can efficiently store strings. There is one child node for every common prefix string. It is particularly suited for dictionary-style applications.

- Rooted tree: T
- String: s
- Length of string: m
- Total length of all strings: M
- The number of strings stored in the patricia trie: n
- Size of the alphabet: N

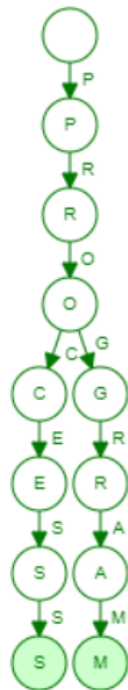
	Trie
Insertion	$O(mN)$
Deletion	$O(mN)$
Search	$O(m)$
Storage	$O(MN)$

Example:

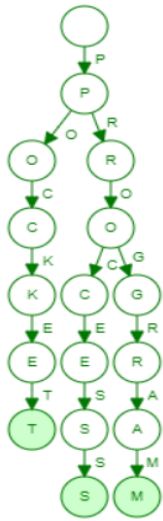
Insert “program”



Insert “process”



Insert “pocket”



Insert “money”

