Data Structures
Tree – Introduction

Team Emertxe

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Data Structure –Tree

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Data Structure –Tree

Introduction

- Non Linear data Structure
- It is used to represent hierarchical tree structure

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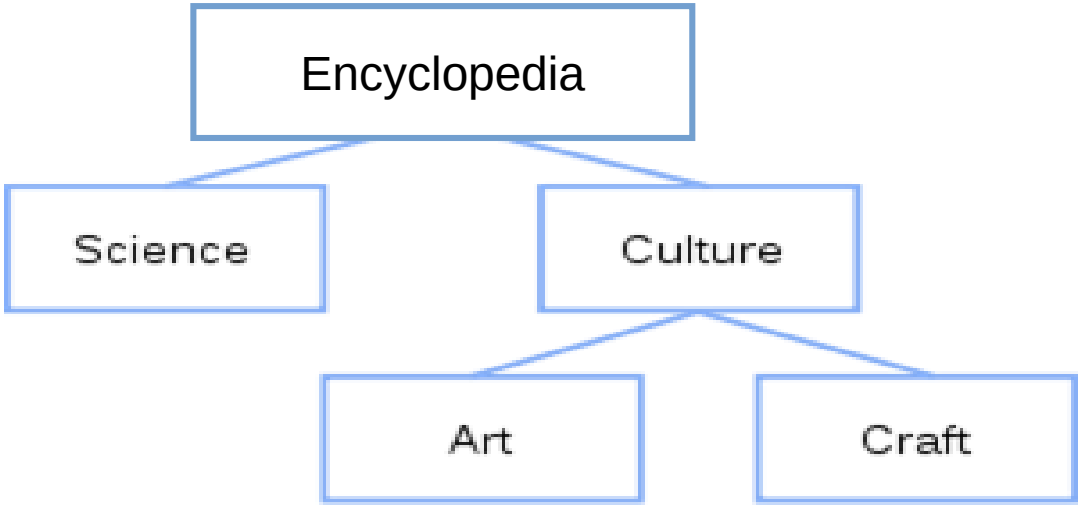

Hierarchical organization of an encyclopedia

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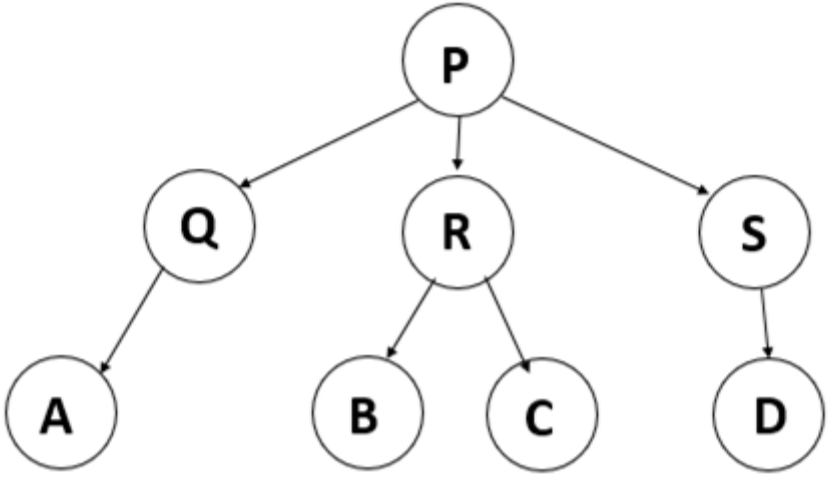
Introduction

Basic Terms



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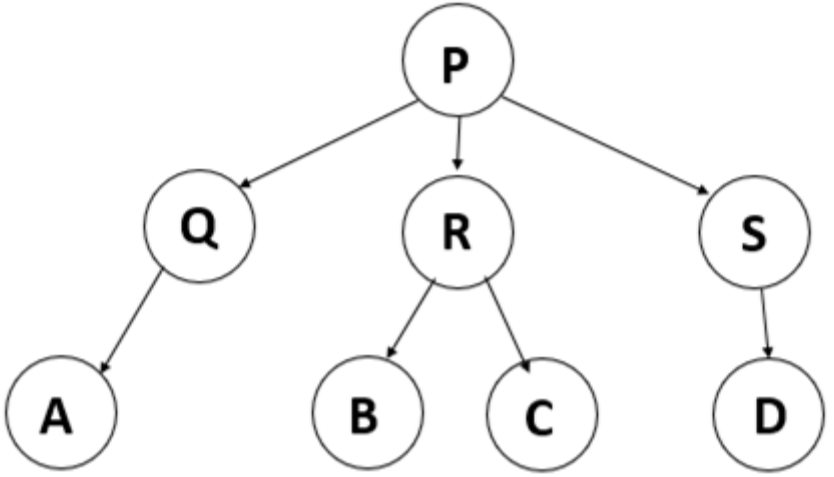
Basic Terms



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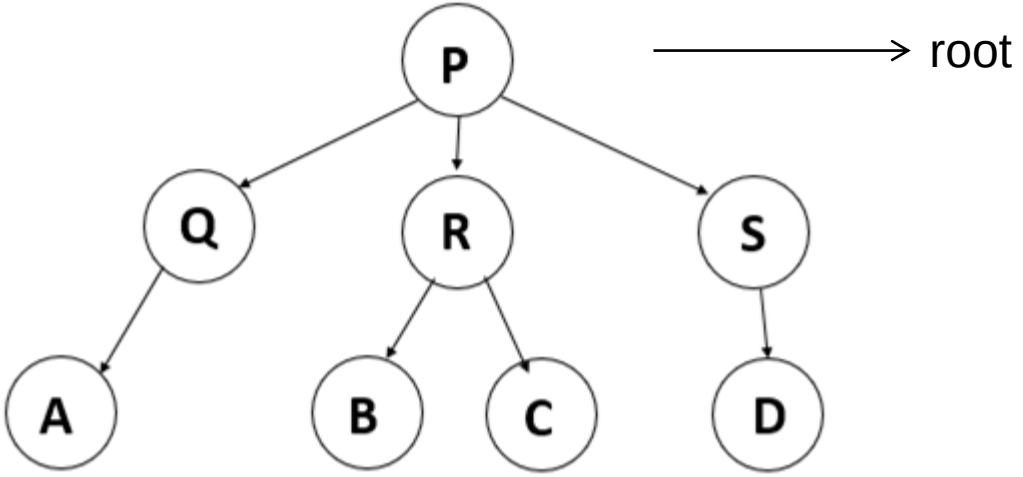

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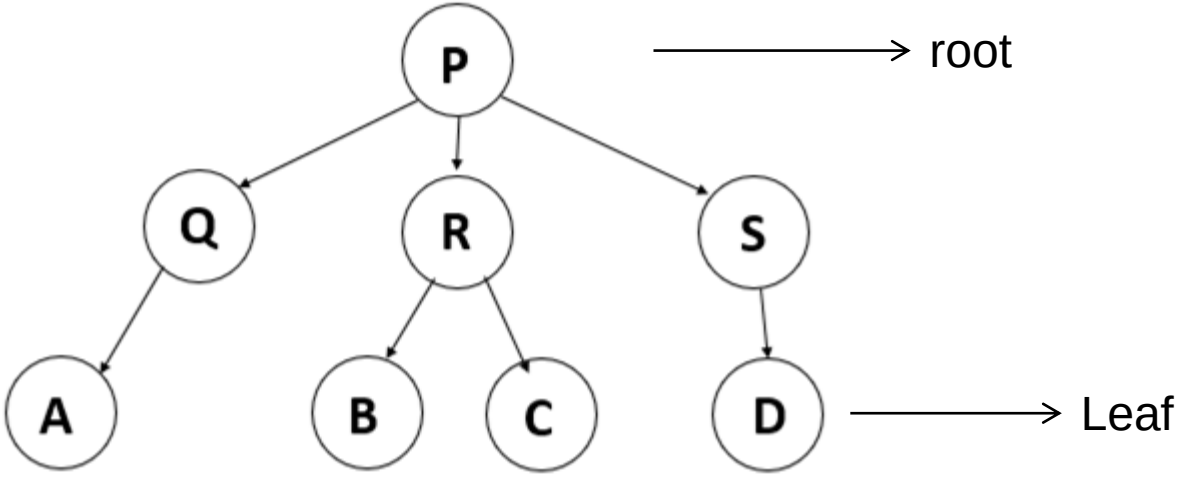

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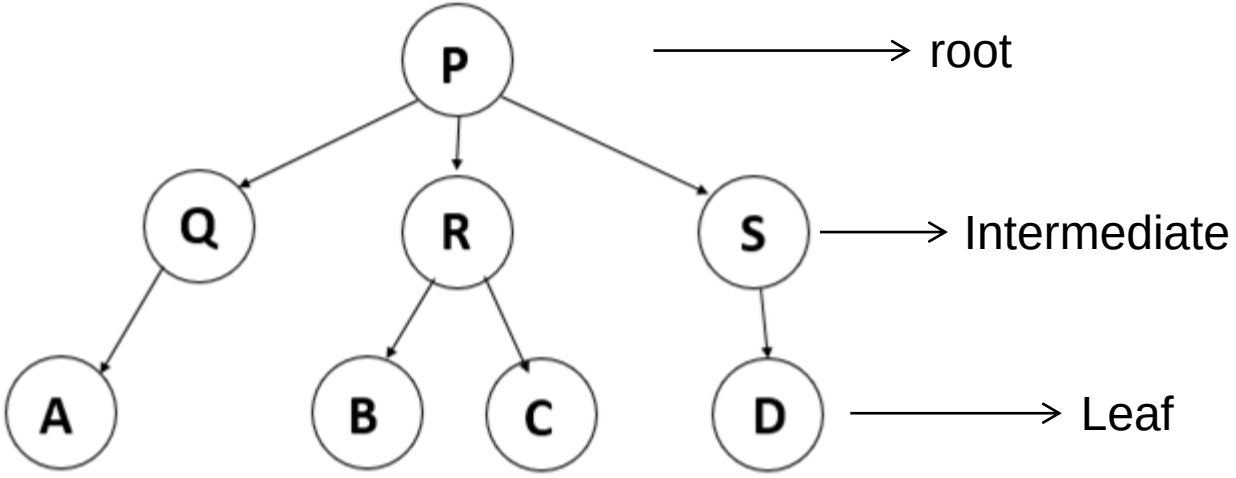

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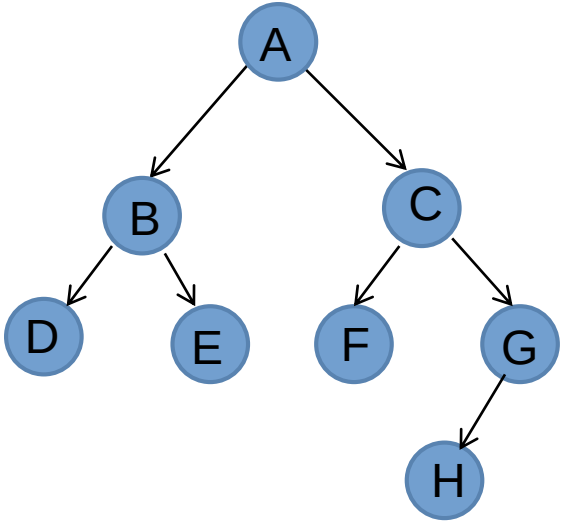
Basic Terms

Height



The Height of a tree is the number of edges on the longest path between a node and leaf

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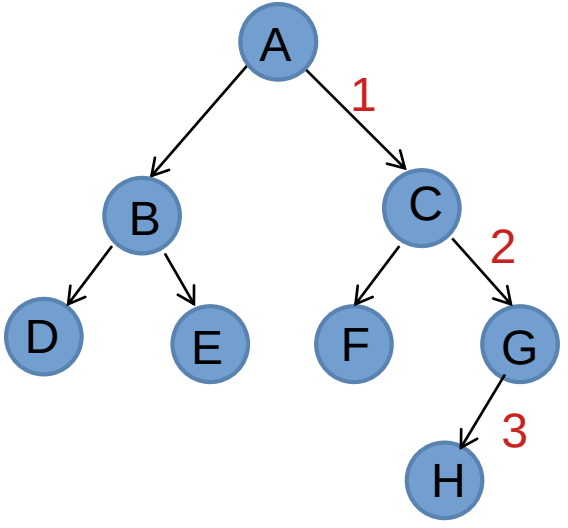
Basic Terms

Height



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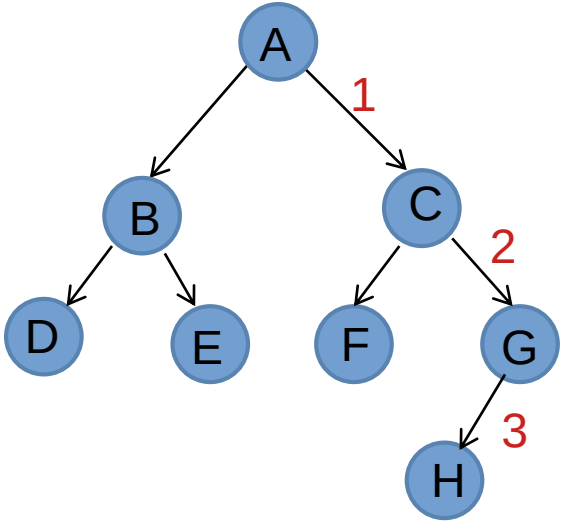

Height of Tree =3

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Introduction

Types of Tree

- Binary Tree
- Ternary Tree
- N - array Tree

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Types of Tree

- Binary Tree ⟶ Atmost 2 children
- Ternary Tree ⟶ Atmost 3 children
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Application of Tree

- Store hierarchical data, like folder structure, organization structure, XML/HTML data.
- Syntax Tree : Used in Compilers

Binary Search Tree