Binary Search Lean Vid Fun...

Vine Complexities of BSI Operations

The time complexity for all Binary Search tree operations be it search operation or Theest Operation or Delete Operation is O(h) where h is the height of a Binary Search Tree.

Thus, In general -

Worst Case-

In most case, the Bhary search tree is a skewed binary search tree and we have to travel from root to the deepest leaf node.

In that case, the height of the Binary Search Thee Becomes n

Thus, mple of Learning

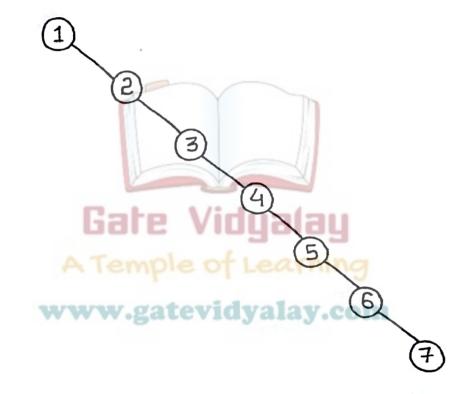
In worst case, The complexity for BST operations

= 0(n)

In this case, BST is as good as unordered list with no benefits.

Binary Search Tree in Worst Case-

Example-



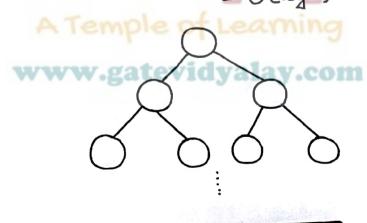
Skewed Binary Search Pree

Best Case-

In best case, the binary search thee is a balanced binary search thee with height logn

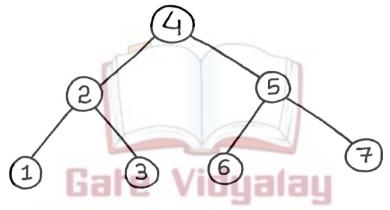
Thus,

In Best Case, Time Complexity of AST Operations



Binany Seanch Tree in Best Case-

Example-



Balanced Binary Search Pree

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