

07. Binary Search Trees

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Agenda

- Tree Problem
 - Binary Search Tree ADT

Binary Search Tree ADT

- Implement a Binary Search Tree ADT
- Operations :
 - **bstCreate** - create a binary search tree
 - **bstDestory** - destroy a binary search tree
 - ▶ `_bstDestroy` – inner function of `bstDestroy`
 - **bstInsert** - insert an element in BST
 - ▶ `new < node` : insert in a left node.
 - ▶ `new >= node` : insert in a right node.
 - ▶ `_bstInsert` – inner function of `bstInsert`
 - **bstDelete** - delete an element in BST
 - ▶ `_bstDelete` – inner function of `bstDelete`
 - **bstSearch** - search tree node containing requested key
 - **bstTraverse** – traverse tree nodes in infix order
 - ▶ `_bstTraverse` – inner function of `bstTraverse`