Robot

- serialnumber: string
- model: string
- alias: string
- comment: string
- productiondate: string

//constructor

//destructor

- + getSerialNumber(): String
- + getModel(): String
- + getAlias(): String
- + getComment(): String
- + getProductionDate(): String
- + setSerialNumber(string): bool
- + setModel(string): void
- + setAlias(string): void
- + setComment(string): void
- + setProductionDate(string): void

HashTable

hasharray: ItemType[]

//constructor

//destructor

- + insertHash(): void
- + deleteHash(): void
- + searchHash(): ItemType
- + printHash(): void
- + destroyHash(): void
- + buildHash(): bool

Extends-

Binary Tree

- root: BinaryNode*
- count: int

//constructor

//destructor

- + isEmpty(): bool
- + size(): int
- + clear(): void
- + preOrder(void visit(ItemType&)): void
- + postOrder(void visit(ItemType&)): void
- + inOrder(void visit(ItemTvpe&)): void
- + breadthOrder(void visit(ItemType&)): void
- + virtual insert(ItemType&): bool
- + virtual remove(ItemType&): bool
- + virtual getEntry(ItemType&); bool
- destroyTree(BinaryNode<ItemType>*): void
- preOrder(void visit(ItemType&, BinaryNode<ItemType>*)): void
- inOrder(void visit(ItemType&, BinaryNode<ItemType>*)): void
- _postOrder(void visit(ItemType&, BinaryNode<ItemType>*)): void
- _breadthOrder(void visit(ItemType&, BinaryNode<ItemType>*)): void

Binary Search Tree

- root: BinaryNode*
- l count: int

//constructor

//destructor

- + insert(ItemType&): bool
- + remove(ItemType&): bool
- + getEntry(ItemType&): bool
- _insert(BinaryNode*, BinaryNode*): BinaryNode*
- remove(BinaryNode*, ItemType, bool): BinaryNode*
- deleteNode(BinaryNode*): BinaryNode*
- findNode(BinaryNode*, ItemType&): BinaryNode*

Binary Node

- item: ItemType
- leftPtr: BinaryNode<ItemType>*
- rightPtr: BinaryNode<ItemType>*

//constructor

//destructor

- + setItem(ItemType&): void
- + setLeftPtr(BinaryNode<ItemType>*): void
- + setRightPtr(BinaryNode<ItemType>*): void
- + getItem(): ItemType
- + getLeftPtr(): BinaryNode<ItemType>*
- + getRightPtr(): BinaryNode<ItemType>*
- + isLeaf():bool