+ President\_Controller()

+ insertArray(String president): void

+ displayArray(): void

+ buildTree(): void

+ scan(): void

- traverse(): void

- iterate(): void

+ delete(type: int): void

- getHeader(): void

- prezArray: String[]

- pElem: int

- prezTree: Tree

- fr: FileReader

- br: BufferedReader

- fileData: ArrayList<Presidents>

- dataStrings: ArrayList<String>

+ displayNode(): void

Presidents

+ LinkyStack()

+ push(president: Node): void

+ pop(): Node

+ peek(): Node

+ isEmpty(): Boolean

+ getSize(): int

+ getStackHeader(): void

- prezStack: Node[]

- stackElem: int

- top: int

LinkyStack

President\_Controller

main (String[] args): void

Main

FileInterface

- number: int

- name: String

- firstName: String

- lastName: String

- code: String

- term: int

- party: String

- state: String

+ FileInterface (file: String)

+ parse(): void

+ buildStrings(): void

- nameSplitter(President president): void

+ getDataStrings(): ArrayList<String>

+ last: String

+ party: String

+ number: int

+ term: int

+ leftChild: Node

+ rightChild: Node

Node

+ Tree()

+ preorderIt(): void

+ inorderIt(): void

+ postorderIt(): void

+ preorderRec(localRoot: Node): void

+ inorderRec(localRoot: Node): void

+ postorderRec(localRoot: Node): void

+ insert(last: String, party: String, num: String, term: String)

+ delete(key: String): Boolean

- getSuccessor(delNode: Node): Node

+ getRoot(): Node

- root: Node

Tree

+ Presidents( inNumber: int, inName: String, inFirst: String, inLast: String, inCode: String, inTerm: int, inParty: String, inState: String)

+ getName(): String

+ getLast(): String

+ getParty(): String

+ getNumber(): int

+ getTerm(): int

+ setFrist(first: String): void

+ setLast(last: String): void