+ Link(president: Presidents)

+ displayLink(): void

+ pData: Presidents

+ next: Link

+ previous: Link

Link

+ DubList()

+ isEmpty(): Boolean

+ insertLast(president Presidents): void

+ displayForward(): void

+ displayBackward(): void

- getListHeader(): void

+ insert(president: Presidents): void

+ delete(president: Presidents): void

- getTxnMessage(president: Presidents, count: int): void

-first: Link

-last: Link

DubList

- myPresidents: Presidents[]

- pElem: int

- prezList: DubList

- addStack: LinkyStack

- delStack: LinkyStack

- invalidStack: LinkyStack

+ Presidents( pNumber: int, pName: String, pFirst: String, pMiddle: String, pLast: String, pCode: String, pTerm: int, pParty: String, pState: String)

+getNumber(): int

+getName(): String

+ getCode(): String

+ getYears(): int

+ getParty(): String

+ getState(): String

+ setFirst(name: String): void

+ getFirst(): String

+ setMiddle(name: String): void

+ setLast(name: String): void

+ getLast(): String

+ toString(): String

+ updateToString(): String

- number: int

- name: String

- firstName: String

- middleName: String

- lastName: String

- code: String

- years: int

- party: String

- state: String

Presidents

- fr: FileReader

- br: BufferedReader

- number: int

- name: String

- firstName: String

- middleName: String

- lastName: String

- party: String

- code: String

- years: int

- state: String

- input: String

- fileData: ArrayList<Presidents>

+ File (file: String)

+ parse(): void

+ parseUpdate(): void

+ getFileData(): ArrayList <Presidents>

+ displayFileData(): void

+ LinkyStack()

+ push (president: Presidents): void

+ pop(): Presidents

+ isEmpty(): Boolean

+ getSize(): int

+ display(): void

- getStackHeader(): void

- prezStack: ArrayList<Presidents>

- stackElem: int

- top: int

LinkyStack

PrezCollection

main (String[] args): void

Main

File

+ PrezCollection()

+ insert(president: Presidents): void

+ display(): void

- nameSplitter(president: Presidents): void

+ selectionSort(): void

- swap(one: int, two: int): void

+ populateList(): void

+ displayList(): void

+ insertUpdate(president: Presidents): void

+ displayStack(): void

+ updateList(): void

- getUpdateHeader(): void