+getString() : String

-inputFile : String

-inputReader : BufferedReader

IOControl

Main

+main(args : String[])

Stack

-nodeStack : Node[]

-maxSize : int

-top : int

+push(currentNode : Node)

+pop() : Node

+peek() : Node

+isEmpty() : boolean

+isFull() : boolean

+displayNode()

+countryData : Country

+leftChild : Node

+rightChild : Node

Node

Tree

+root : Node

+find(key : String) : Node

+insert(currentCountry : Country)

+delete(key : String) : boolean

+traverse(traverseType : int)

+displayTree()

-getSuccessor(delNode : Node): Node

-scanRecNLR(localRoot : Node)

-scanRecLNR(localRoot : Node)

-scanRecLRN(localRoot : Node)

-scanRecRNL(localRoot : Node)

-scanIterLNR(localRoot : Node)

-scanIterRNL(localRoot : Node)

+getTree() : Tree

+buildArray(maxSize : int)

+buildQueue(maxSize : int))

+buildTree()

+printArray()

+printQueue()

+printTree()

+removeNodes(inputString : String)

-stringArray : String[]

-treeQueue : Queue

-ioc : IOControl

-searchTree : Tree

Collection

+Country(tokens : String[])

+getName() : String

+getCapital() : String

+getPopulation() : int

+toString() : String

-name : String

-capital : String

-population : int

Country

+Queue(newSize : int)

+insert(currentTree : Tree)

+remove() : Tree

+peekFront() : Tree

+isEmpty() : boolean

+isFull() : boolean

+getSize() : int

+printQueue()

-treeQueue : Tree[]

-maxSize : int

-front : int

-rear : int

-numItems : int

Queue