GraphListNode

+ Object value
+ DSAListNode nextN

GraphListIterator

- DSAListNode iterNext
+ hasNext()(boolean)
+ next()(Object)

DSAEdge

- String label
- DSAVertex Start
- DSAVertex End
- double weight
- boolean visited

+ getVisited()(boolean)
+ setVisited()()
+ clearVisited()()
+ toString()(String)

DSAVertex

- String label
- Object value
- boolean visited
- LL sourceList
- LL sinkList

+ getVisited()(boolean)
+ setVisited()()
+ clearVisited()()
+ toString()(String)
+ getSources()(LL)
+ getSinks()(LL)

GraphList

- DSAListNode head
- DSAListNode tail

+ iterator()(Iterator)
+ insertLast()(Object)()
+ isEmpty()(boolean)

AddSorted

+ addSorted(GraphList, DSAVertex)()
+ addSorted(GraphList, DSAEdge)()

DSAGraph

- GraphList verticies

+ addVertex(String, Object)()
+ loadFile(String)()
+ addVertex(DSAVertex)()
+ addEdge(DSAVertex, DSAVertex, double, String)()
+ getEdgeCount()(int)
+ getVertexCount()(int)
+ adjacent(DSAVertex)(GraphList)
+ adjacentE(DSAVertex)(GraphList)
+ outDegree(DSAVertex)(int)
+ inDegree(DSAVertex)(int)
+ isAdjacent(DSAVertex)(boolean)
+ displayList()()
+ displayMatrix()()
+ breadthFirst()()
+ depthFirst()()
+ clearVertVisited()()

Sorts

+ mSSurname(C[])(void)
- mSRSurname(C[], int, int)()(void)
- mergeSurname(c[], int, int, int)()
+ mSState(C[])(void)
- mSRState(C[], int, int)(void)
- mergeSState(c[], int, int, int)()
+ mSParty(C[])(void)
- mSRParty(C[], int, int)(void)
- mergeParty(c[], int, int, int)()
+ mSDivision(C[])(void)
- mSRDivision(C[], int, int)(void)
- mergeDivision(c[], int, int, int)()

Candidate

- int ID
- String name
- String surname
- String division
- String state
- int votes
- boolean elected
- boolean histElected
- int swing

+ toString()(String)
+ getSwing()(double)
+ addVotes(int)()
+ voteDelta(int)()

Division

- String name
- int voteTotal
- LL candidates

+ getMargin(String)(double)
+ addCandidate(C)()
+ addVotes(int)()

Menus

+ mainMenu()(int)
+ stateMenu()(int)
+ yesNoMenu(String)(int)
+ printMenu(String[])(int)

InputFunctions

+ getAnyInt(String)(int)
+ getBound(int, int, String)(int)
+ getAnyDouble(String)(double)
+ getBound(double, double, String)(double)
+ getString(String)(String)

ElectionAnalyser

+ main(String[])(void)
+ processArray(C[], LL[], HT, LL[])()
+ listNominees(LL[], LL[], HT, D[], HT, C[])()
+ filtNominees(LL[], LL[], HT, D[], HT, C[])(Object[])
+ filtNominees(LL[], LL[], HT, C[], String)(Object[])
+ searchNominees(LL[], LL[], HT, C[])()
+ listByMargin(D[], HT)()
+ listSort(C[])(C[])
+ itinerary(String)()

FileIO

+ loadCandidateArray()(C[])
+ toBoolean(String)(boolean)
+ loadVoteData(D[], HT)()
+ loadVotesFile(String, D[] HT)()
+ count(LL)(int)
+ makeArray(LL)(C[])
+ makeStringArray(LL)(String[])
+ countOccurences(HT, HT, C[])(int[])
+ printReport(Object[], String, String)()

DSAListNode

+ Object value
+ DSAListNode nextN

DSALinkedListIterator

+ DSAListNode iterNext
+ hasNext()(boolean)
+ next()(Object)

DSALinkedList

- DSAListNode head
- DSAListNode tail

+ iterator()(Iterator)
+ insertLast(Object)()
+ isEmpty()(boolean)

Filtering

+ addFilter(LL[])(Object[])
+ addFilter(LL[], HT)(Object[])
+ addFilter(D[], HT)(Object[])
+ addFilteredList(LL, LL)(LL)
+ intersectionList(LL, LL)(LL)

DSAHashTuple

+ String key
+ int idx

DSAHashTable

- DSAHashTuple[] tuples
- int noEntries

+ isEmpty()(boolean)
+ getNoEntries()(int)
+ getIdx(String)(int)
+ insert(key, String)(boolean)
+ primaryHash(String)(int)
+ secondaryHash(String)(int)

Tools

+ stateToIdx(String)(int)
+ idxToState(int)(String)

C: Candidate
LL: DSALinkedList
HT: DSAHashTable
D: Division