LinkedListWithIterator

-firstNode:Node
- numberOfFriends:int

+add()
+getEntry()
+remove()
+replace()
+toArray()
+getLength()
+isEmpty()
-initializeDataFields()
-getNodeAt()

LinkedQueue

-firstNode:Node
- lastNode:Node

+enqueue()
+getFront()
+dequeue()
+isEmpty()
+clear()

LinkedStack

-topNode:Node

+push()
+pop()
+peek()
+isEmpty()
+clear()

Vertex

-label:T
-edgeList:ListWithIteratorInterface
-visited:boolean
- previousVertex:VertexInterface
- cost:double

+getLabel()
+hasPredecessor()
+setPredecessor()
+getPredecessor()
+visit()
+unvisit()
+isVisited()
+getCost()
+setCost()
+toString()
+connect()
+getNeighborIterator()
+hasNeighbor()
+getUnvisitedNeighbor()
+equals()
+display()

MaxHeap

-heap: T[]
- lastIndex:int
- initialized:boolean
- DEFAULT_CAPACITY:int
- MAX_CAPACITY:int

+add()
+removeMax()
+getMax()
+isEmpty()
+getSize()
+clear()
-reheap()
-ensureCapacity()
-checkInitialization()
- checkCapacity()

CIS 22C Final Part 1
UML Diagram

Profile

- status: String
- name: String

+getStatus()
+setonlineStatus()
+setOfflineStatus()
+setBusyStatus()
+getName()
+setName()

DirectedGraph

- vertices: DictionaryInterface
- edgeCount: int

#resetVertices()
+getDepthFirstTraversal()
+getTopologicalOrder()
+getShortestPath()
+getCheapestPath()
#findTerminal()
+displayEdges()
+getVertex()
+getPredecessor()
+getCost()
+compareTo()
+toString()
+addVertices()
+addEdge()
+hasEdge()
+isEmpty()
+getNumberOfVertices()
+getNumberOfEdges()
+clear()

+getBreadthFirstTraversal()
+getVertex()

ProfileOperations

- profiles: ArrayList
- friendsList: LinkedDictionary
- friendsList1: UndirectedGraph

+getIndexOfProfile()
+addFriends()
+showListOfFriends()
+deleteFriends()
+createProfiles()
+searchProfile()
+readProfile()
+updateProfile()
+deleteProfile()

LinkedDictionary

- firstNode: Node
- numberOfEntries: int

+hasNext()
+next()
+remove()
+add()
+getkeyIterator()
+isEmpty()
+getSize()
+clear()
+getValue()
+getValueIterator()
+initializeDataFields()

HeapPriorityQueue

+HeapPriorityQueue
+add()
+remove()
+peek()
+isEmpty()
+getSize()
+clear()

ArrayList

- numberOfEntries: int
- Initialize: boolean
- DEFAULT_CAPACITY: int
- MAX_CAPACITY: int
- list: T[]

-ensureCapacity()
- makeRoom()
- removeGap()
-checkInitilization()
-checkCapacity()
+add()
+remove()
+clear()
+replace()
+getEntry()
+contains()
+getLength()
+isEmpty()
+toArray()

UndirectedGraph

+addEdge()
+getNumberOfEdges()
+getTopologicalOrder()
+addEdge()