GraphAdjList Unit test designs

Name	Class	Scenary
Setupscenary1	GraphAdjListTest	3 nodes added each one of them with a name, an average of people and an average of minutes for them.
Setupscenary1	GraphAdjListTest	The first node called "El ciclón" with an average people of 25 people and an average of minutes of 10.
Setupscenary1	GraphAdjListTest	The second node called "La cumbre" with an average of people of 40 and an average of minutes of 45.
Setupscenary1	GraphAdjListTest	The third node called "Los rápidos" with an average of people of 30 and an average of minutes of 25
SetUpscenary1	GraphAdjList	3 edges added each one of them with differente weights and a pair of nodes
SetUpscenary1	GraphAdjList	The first edge with a weight of 12 and between "El ciclón" and "La cumbre"
SetUpscenary1	GraphAdjList	The second called "La cumbre" with an average of people of 40 and an average of minutes of 45.
SetUpscenary1	GraphAdjList	The third node called "Los rápidos" with an average of people of 30 and an average of minutes of 25

GraphAdjList Test Case Design

Test objective: Validate that a node or vertex is correctly added to the graph				
Class	Method	Scenary	Input Values	Result
GraphAdjListTest	addVertex	Setupscenary1	A hash table already created	The node "El ciclón" got added to the hash table

Test objective: Verify that an edge is correctly added between 2 nodes of the graph				
Class	Method	Scenary	Input Values	Result
GraphAdjList	AddEdge	Setupscenary1	The 2 nodes to be joined by the edge and the weight of the edge	A new edge was added to the list of edges with a weight "weight" and nodes "start" and "end".

Test objective: Verify that an edge is correctly added between 2 nodes of the graph				
Class	Method	Scenary	Input Values	Result
GraphAdjList	AddEdge	Setupscenary1	The 2 nodes to be joined by the edge and the weight of the edge	A new edge was added to the list of edges with a weight "weight" and nodes "start" and "end".

Test objective: Validate that the weights of the shortest paths between a "source" node and the rest of the nodes of the graph are correctly obtained.				
Class	Method	Scenary	Input Values	Result
GraphAdjList	Dijkstra	Setupscenary1	A "source" node and an array of keys that identify the rest of the nodes of the graph.	A "DijkstraResults" object containing an array with the path weights between the source node and each of the nodes of the graph.

Test objective: Validate that the weight of the shortest path between all nodes of the graph can be obtained.				
Class	Method	Scenary	Input Values	Result
GraphAdjList	Floyd	Setupscenary1	N/A	An mxm matrix containing the weight of the shortest path from any node to any of the other nodes in the graph.