Formato de escenarios y casos de uso

Configuración de los Escenarios

Nombre	Clase	Escenario
setUp	GraphTest	- Initialize a Graph object
setUp2	GraphTest	- Initialize a GraphMatrix Object
addVertexTest	GraphTest	- Add three vertices with values 1, 2, and 3 to the graph
addVertexTestMatrix	GraphTest	- Add three vertices with values 1, 2, and 3 to the graph matrix
addVertexDirectTest	GraphTest	- Add three vertices with values 1, 2, and 3 to the graph and check the values directly
addVertexDirectMatrixTest	GraphTest	- Add three vertices with values 1, 2, and 3 to the graph matrix and check the values directly
addAlreadyExistingVertex	GraphTest	- Add a vertex with value 1 and try to add it again
addAlreadyExistingVertexMatrix	GraphTest	- Add a vertex with value 1 and try to add it again to the graph matrix
addEdgeTest	GraphTest	- Add two vertices with values 1 and 2 and an edge between them
addEdgeTestMatrix	GraphTest	- Add two vertices with values 1 and 2 and an edge between them in the graph matrix
addEdgeTestNoExistingVertex	GraphTest	- Add a vertex with value 1 and try to add an edge to a non-existing vertex
addEdgeTestNoExistingVertexMatrix	GraphTest	- Add a vertex with value 1 and try to add an edge to a non-existing vertex in the graph matrix
addAlreadyExistingEdgeTest	GraphTest	- Add two vertices with values 1 and 2 and add an edge between them twice
addAlreadyExistingEdgeMatrixTest	GraphTest	- Add two vertices with values 1 and 2 and add an edge between them twice in the graph matrix
deleteEdgeTest	GraphTest	- Add two vertices with values 1 and 2, add an edge between them, and delete the edge
deleteEdgeMatrixTest	GraphTest	- Add two vertices with values 1 and 2, add an edge between them in the graph matrix, and delete the edge

deleteNotExistingEdgeTest	GraphTest	- Add two vertices with values 1 and 2 and try to delete a non-existing edge
deleteNotExistingEdgeMatrixTest	GraphTest	- Add two vertices with values 1 and 2 and try to delete a non-existing edge in the graph matrix
deleteEdgeNotExistingVertexTest	GraphTest	- Add a vertex with value 1 and try to delete an edge to a non-existing vertex
deleteEdgeNotExistingVertexMatrixTest	GraphTest	- Add a vertex with value 1 and try to delete an edge to a non-existing vertex in the graph matrix
deleteVertexTest	GraphTest	- Add four vertices with values 1, 2, 3, and 4, add edges between them, delete vertex 1, and check the existence of edges

Diseño de Casos de Prueba

Objetivo de la Prueba: Assert that vertex are added correctly.				
Clase	**Método**	**Escenario**	**Valores de Entrada**	**Resultado esperado**
Graph	addVertex	setUp	vertex = 1 vertex = 2 vertex = 3	The three vertices are added to the graph
GraphMatrix	addVertex	setUp2	vertex = 1 vertex = 2 vertex = 3	The three vertices are added to the matrix graph

Objetivo de la Prueba: Add three vertices with values 1, 2, and 3 to the graph and check the values directly.				
Clase	**Método**	**Escenario**	**Valores de Entrada**	**Resultado esperado**
Graph	addVertex	setUp	vertex = 1 vertex = 2 vertex = 3	Vertex are added and verified correctly.
GraphMatrix	addVertex	setUp2	vertex = 1 vertex = 2 vertex = 3	Vertex are added and verified correctly.
Graph	addVertex	setUp	vertex = 1 vertex = 1	Do not add duplicate vertex
GraphMatrix	addVertex	setUp2	vertex = 1 vertex = 1	Do not add duplicate vertex