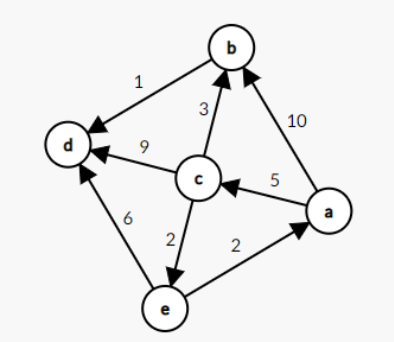
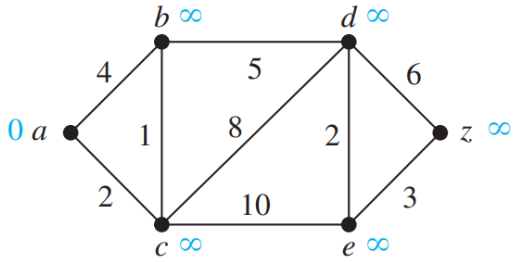
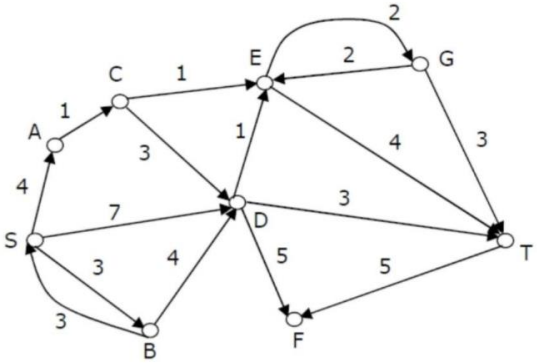
UNIVERSIDAD ICESI

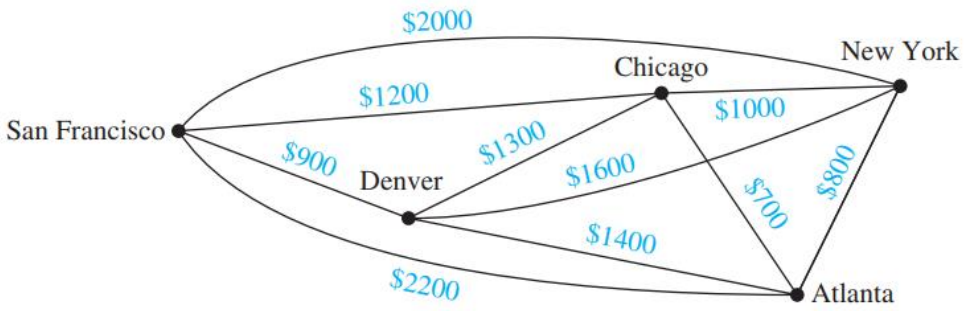
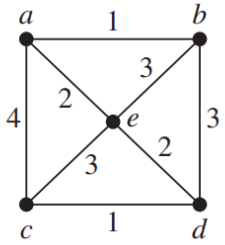
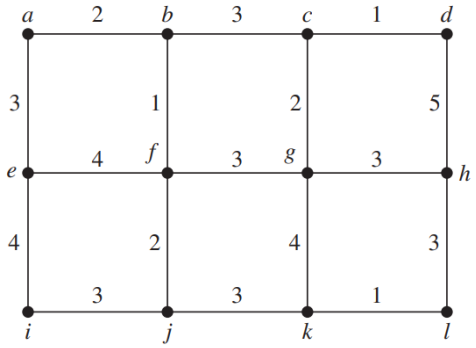
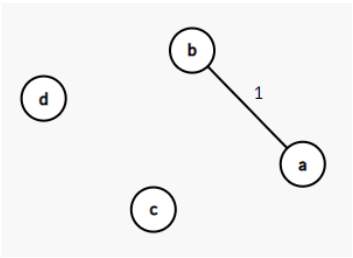
Algoritmos y Programación II
Facultad de ingeniería

Formato de escenarios y casos de uso

Graph:

Configuración de los Escenarios

Nombre	Clase	Escenario
setUpStage1	TestGraph	
setUpStage2	TestGraph	
setUpStage3	TestGraph	

setUpStage4	TestGraph	
setUpStage5	TestGraph	
setUpStage6	TestGraph	
setUpStage7	TestGraph	

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Diseño de Casos de Prueba

Clase	Método	Escenario	Valores de Entrada	Resultado
AdjacencyListGraph	BFS()	setUpStage2()	“a”	true.
AdjacencyMatrixGraph	BFS()	setUpStage2()	“a”	true
AdjacencyListGraph	BFS()	setUpStage4()	“denver”	true
AdjacencyMatrixGraph	BFS()	setUpStage4()	“denver”	true
AdjacencyListGraph	BFS()	setUpStage7()	“a”	false
AdjacencyMatrixGraph	BFS()	setUpStage7()	“a”	false
AdjacencyListGraph	DFS()	setUpStage2()	-	1
AdjacencyMatrixGraph	DFS()	setUpStage2()	-	1
AdjacencyListGraph	DFS()	setUpStage4()	-	1
AdjacencyMatrixGraph	DFS()	setUpStage4()	-	1
AdjacencyListGraph	DFS()	setUpStage7()	-	3
AdjacencyMatrixGraph	DFS()	setUpStage7()	-	3

Clase	Método	Escenario	Valores de Entrada	Resultado
AdjacencyListGraph	dijkstra()	setUpStage1()	source = “a”, destination = “d”	Path p = {“a”, “c”, “b”, “d”} with distance 9.0
AdjacencyMatrixGraph	dijkstra()	setUpStage1()	source = “a”, destination = “d”	Path p = {“a”, “c”, “b”, “d”} with distance 9.0
AdjacencyListGraph	dijkstra()	setUpStage2()	source = “a”, destination = “z”	Path p = {"a", "c", "b", "d", "e", "z"} with distance 13.0
AdjacencyMatrixGraph	dijkstra()	setUpStage2()	source = “a”, destination = “z”	Path p = {"a", "c", "b", "d", "e", "z"} with distance 13.0
AdjacencyListGraph	dijkstra()	setUpStage3()	source = “S”, destination = “T”	Path p = {"S", "A", "C", "E", "T"} with distance 10.0
AdjacencyMatrixGraph	dijkstra()	setUpStage3()	source = “S”, destination = “T”	Path p = {"S", "A", "C", "E", "T"} with distance 10.0
AdjacencyListGraph	floydWarshall()	setUpStage1()	-	a map of all paths between each vertex
AdjacencyMatrixGraph	floydWarshall()	setUpStage1()	-	a map of all paths between each vertex
AdjacencyListGraph	floydWarshall()	setUpStage2()	-	a map of all paths between each vertex
AdjacencyMatrixGraph	floydWarshall()	setUpStage2()	-	a map of all paths between each vertex
AdjacencyListGraph	floydWarshall()	setUpStage3()	-	a map of all paths between each vertex
AdjacencyMatrixGraph	floydWarshall()	setUpStage3()	-	a map of all paths between each vertex

Clase	Método	Escenario	Valores de Entrada	Resultado
AdjacencyListGraph	prim()	setUpStage4()	source = “atlanta”	3600.0
AdjacencyMatrixGraph	prim()	setUpStage4()	source = “atlanta”	3600.0
AdjacencyListGraph	prim()	setUpStage5()	source = “a”	6.0
AdjacencyMatrixGraph	prim()	setUpStage5()	source = “a”	6.0
AdjacencyListGraph	prim()	setUpStage6()	source = “a”	24.0
AdjacencyMatrixGraph	prim()	setUpStage6()	source = “a”	24.0
AdjacencyListGraph	kruskal()	setUpStage4()	-	3600.0
AdjacencyMatrixGraph	kruskal()	setUpStage4()	-	3600.0
AdjacencyListGraph	kruskal()	setUpStage5()	-	6.0
AdjacencyMatrixGraph	kruskal()	setUpStage5()	-	6.0
AdjacencyListGraph	kruskal()	setUpStage6()	-	24.0
AdjacencyMatrixGraph	kruskal()	setUpStage6()	-	24.0

Clase	Método	Escenario	Valores de Entrada	Resultado
AdjacencyListGraph	addVertex()	setUpStage7()	element = “e” element = “f”	Vertices added
AdjacencyMatrixGraph	addVertex()	setUpStage7()	element = “e” element = “f”	Vertices added
AdjacencyListGraph	addEdge()	setUpStage7()	source = “c”, destination = “d” source = “b”, destination = “c”	Edges added
AdjacencyMatrixGraph	addEdge()	setUpStage7()	source = “c”, destination = “d” source = “b”, destination = “c”	Edges added
AdjacencyListGraph	deleteVertex ()	setUpStage7()	element = “d”	Vertex deleted
AdjacencyMatrixGraph	deleteVertex()	setUpStage7()	element = “d”	Vertex deleted
AdjacencyListGraph	deleteEdge()	setUpStage7()	source = “a”, destination = “b”	Edge deleted
AdjacencyMatrixGraph	deleteEdge()	setUpStage7()	source = “a”, destination = “b”	Edge deleted
AdjacencyListGraph	searchVertex()	setUpStage7()	element = “a” element = “b” element = “c” element = “d”	Vertex.getElement = “a” Vertex.getElement = “b” Vertex.getElement = “c” Vertex.getElement = “d”
AdjacencyMatrixGraph	searchVertex()	setUpStage7()	element = “a” element = “b” element = “c” element = “d”	Vertex.getElement = “a” Vertex.getElement = “b” Vertex.getElement = “c” Vertex.getElement = “d”
AdjacencyListGraph	searchEdge()	setUpStage7()	source = “a”, destination = “b”	1.0
AdjacencyMatrixGraph	searchEdge()	setUpStage7()	source = “a”, destination = “b”	1.0