

Test cases design

Test Objective: Verify that BFS is assigning parents, colors and to vertices correctly with both type of graphs				
Clase	Método	Escenario	Valores de Entrada	Resultado esperado
Graph	BFS()	Setup1	Vertex=1, Vertex=2, Vertex=3, Vertex=4. Vertex=5 Edge=(1,2, w=1, id ="") Edge=(3,2, w=1, id ="") Edge=(3,4, w=1, id ="") Edge=(3,5, w=1, id ="") BFS(1)	2.parent = 1 3.parent = 2 4.parent = 3 5.parent = 3
Graph	BFS()	Setup1	Vertex=1, Vertex=2, Vertex=3, Vertex=4. Vertex=5 Edge=(1,2, w=1, id ="") Edge=(3,2, w=1, id ="") Edge=(3,4, w=1, id ="") Edge=(3,5, w=1, id ="") BFS(1)	1.color = BLACK 2.color = BLACK 3.color = BLACK 4.color = BLACK 5.color = BLACK
GraphMatrix	BFS()	Setup2	Vertex=1, Vertex=2, Vertex=3, Vertex=4. Vertex=5 Edge=(1,2, w=1, id ="") Edge=(3,2, w=1, id ="") Edge=(3,4, w=1, id ="") Edge=(3,5, w=1, id ="") BFS(1)	2.parent = 1 3.parent = 2 4.parent = 3 5.parent = 3
GraphMatrix	BFS()	Setup2	Vertex=1, Vertex=2, Vertex=3, Vertex=4. Vertex=5 Edge=(1,2, w=1, id ="") Edge=(3,2, w=1, id ="") Edge=(3,4, w=1, id ="") Edge=(3,5, w=1, id ="") BFS(1)	1.color = BLACK 2.color = BLACK 3.color = BLACK 4.color = BLACK 5.color = BLACK

