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| **DSAGraphVertex** |
| - label: int  - data: object  - vertexList: DSALinkedList |
| + getLabel(): int  +getData(): object  + getAdjacentList(): DSALinkedList  +printAdjacentList(): None  + addAdjacent(DSAGraphVertex, int): None  + getDegree(): int |

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| **DSAGraph** |
| - vertices: DSALinkedList |
| + addVertex(int, object): None  + hasVertex(int): Bool  + getVertex(int): DSAGraphVertex  + getVertexCount(): int  + getAdjacent(int): DSALinkedList  + addEdge(int, int, object): None  +isAdjacent(int, int): Bool  +getEdgeCount(): int  +displayList(): None  +degree(int): int  + \_DFS(DSAGraphVertex, set, queue): queue  + DFS(): Queue  + \_BFS(queue, set, queue): queue  + BFS(): queue |

1..1

0..\*

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| **TestHarness** |  | **GraphIO** |
| + main() |  | + makeGraph(string): DSAGraph  + saveGraph(DSAGraph, string, string): None  + loadSerialisedGraph(string): DSAGraph  + saveSerialisedGraph(DSAGrap): None |

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| **DSAGraphEdge** |
| - vertex: DSAGraphVertex  - value: int |
| + getWeight(): int |